

Renew Harbor Island



Work today, protect tomorrow.

1st Quarter 2025 Groundwater Monitoring Report

For Michigan Part 115 CCR Solid Waste
Regulations

Former J.B. Sims Generating Station

April 30, 2025

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1.0 Introduction

The former J.B. Sims Generating Station was a coal-fired, steam-generating power facility with a net capacity of approximately 70.5 megawatts that was operated by the Grand Haven Board of Light and Power (GHBLP). The facility is located at 1231 North 3rd Street, on Harbor Island, in Grand Haven, Michigan (**Figure 1**) (the Site). The coal combustion residuals (CCR) generated at the former Site were stored in two CCR units: (1) the inactive Units 1/2 Impoundment and (2) the former Unit 3A/B Impoundments (**Figure 2**). Operations at the Site ceased in February 2020 and the plant subsequently was decommissioned. During deconstruction, wastewater from boiler and infrastructure cleanout was sent to Unit 3A/B. The waste disposal into Unit 3A/B ceased in July 2020.

The U.S. Environmental Protection Agency's (EPA) final CCR Rule 40 CFR §257 and Michigan's Part 115 Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451 (Part 115), establish a comprehensive set of requirements for the management and disposal of CCR (or coal ash). Pursuant to these requirements, federal and state groundwater monitoring programs are performed concurrently for the Site. The current groundwater monitoring network for the CCR units was established in 2022. Background data collection occurred between November 2022 and August 2023 for the current monitoring network and background wells. The first sample event after the background monitoring period using the updated monitoring network occurred in October 2023. The October 2023 sampling event was considered both a detection and assessment monitoring event based on the prior status of the Site in assessment monitoring before the well network was updated. Both statistically significant increases (SSI) of constituents in groundwater above the background values and statistically significant levels (SSLs) of constituents over groundwater protection standards (GPS) were identified from the October 2023 sample event. Therefore, the status of the groundwater monitoring program for both CCR units is assessment monitoring and evaluation of potential remedies. The Site initiated assessment of corrective measures, pursuant to Part 115 R299.4443, on May 1, 2024, following the identification of SSIs at one or more monitoring wells. The Assessment of Corrective Measures was published August 5, 2024, and additional data collection will continue into 2025 to further support the remedy selection process.

This Groundwater Monitoring Report presents the activities completed in the fourth quarter 2024.

1.1 Background

The former Unit 3A/B Impoundments were engineered, clay-lined, above-ground units and ceased receiving CCR material in July 2020. In 2017, a Groundwater Monitoring System Certification was first developed for the 3A/B Impoundments, which consisted of one background well (MW-07), four (4) downgradient detection monitoring wells (MW-01R, MW-02, MW-03, and MW-04), and an additional assessment monitoring well (MW-09) (ERM, 2017). Groundwater monitoring conducted in 2017 by GHBLP identified statistically significant increases (SSIs) of constituents in groundwater, and therefore the GHBLP implemented assessment monitoring (Golder, 2018). Assessment monitoring identified SSLs over the GPS at

the Site, and therefore GHBLP stated that they were initiating assessment of corrective measures for the Site; however, that document was completed prior to the inclusion of Units 1/2 Impoundment CCR unit and therefore only represents the status of Unit 3A/B Impoundments (Golder, 2018a). The inactive CCR Units 1/2 Impoundment was a depression in the ground where sluiced ash was disposed. The inactive Units 1/2 Impoundment ceased receiving CCR material in 2012. After adding monitoring wells to the network to address the Units 1/2 Impoundment, the Updated Notice of Groundwater Protection Standard Exceedance was issued to document SSLs over GPS for both Units 1/2 Impoundment and Unit 3A/B Impoundments on July 22, 2021.

In 2021, to better understand the groundwater flow on the Island and to verify that the monitoring network in place at the time was adequate, 22 piezometers, six (6) staff gauges, and 3 stilling wells were installed. These additional monitoring locations resulted in a better understanding of groundwater flow. The Field Summary Report of Results from Approved Work Plan - Piezometer Installation and Additional Data Collection suggested that MW-07 may be an inappropriate location for a background well due to the potential for groundwater to flow from Units 1/2 Impoundment toward MW-07 (Golder, 2022). Therefore, in 2022 a new groundwater monitoring network was selected for the CCR units, including new background wells.

Background data collection for the updated monitoring network and new background wells occurred between November 2022 and August 2023. The first sample event after the updated background monitoring period occurred in October 2023, and quarterly monitoring was conducted in 2024 and the first quarter of 2025.



Figure 1 | Site Vicinity Map

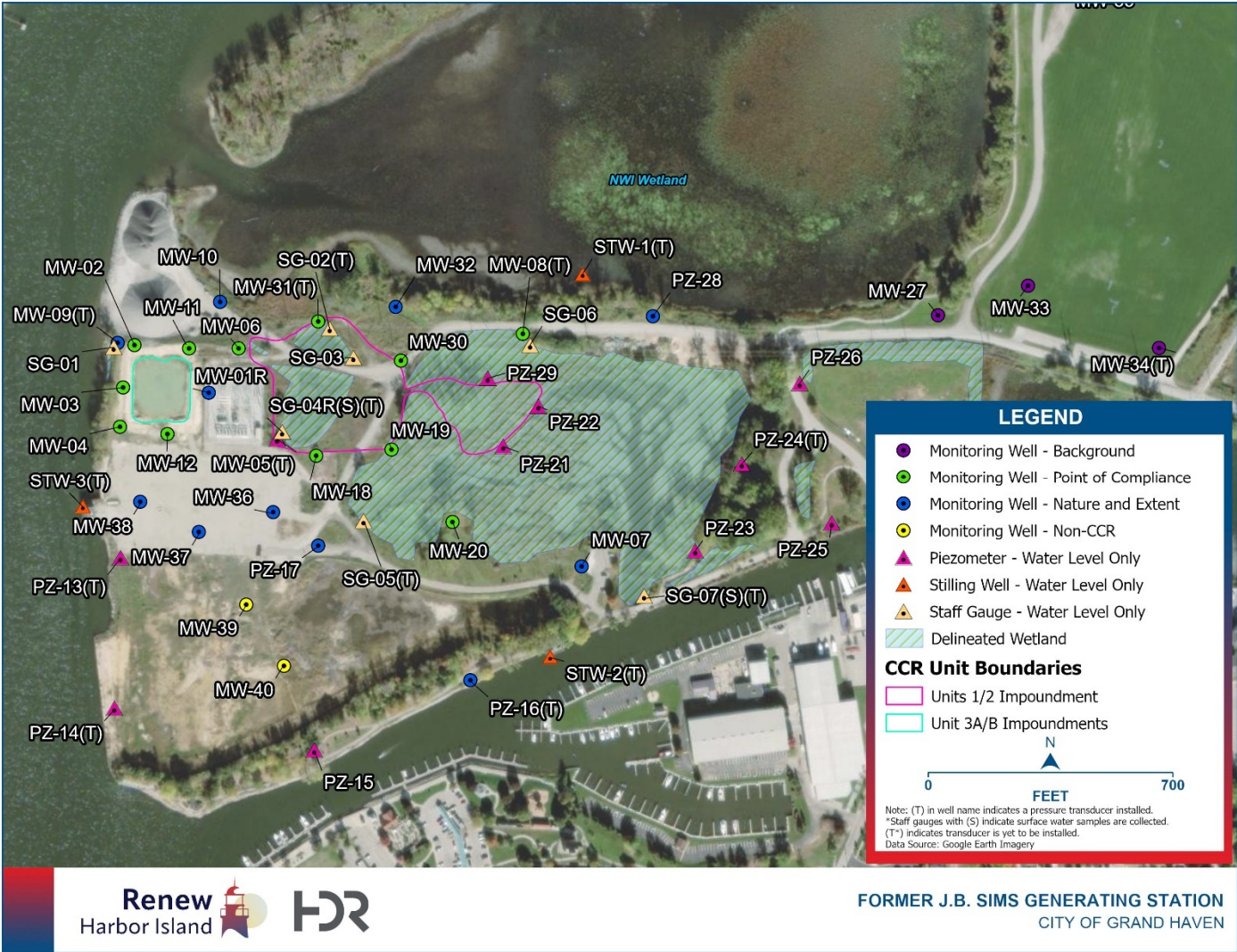


Figure 2 | Former J.B. Sims CCR Units and Monitoring Wells

2.0 Facility Description

2.1 Units 1/2 Impoundment

The inactive CCR Units 1/2 Impoundment was a depression in the ground where sluiced ash was disposed. The inactive Units 1/2 Impoundment ceased receiving CCR materials in 2012. Due to the abstract size and lack of defined boundaries, Units 1/2 Impoundment was delineated by Golder in the 2019 report *CCR Impoundment Ash Delineation at the J.B. Sims Generating Station* (Golder, 2019). Following the submission of the delineation report, a boundary of the inactive Units 1/2 Impoundment was agreed upon by GHBLP, EPA, and EGLE, which includes an area of sluiced ash disposal to the east of MW-30 into the internal wetland (**Figure 2**). The parties also agreed that the North Channel adjacent to the Units 1/2 Impoundment would be evaluated for potential inclusion in the revised boundary the Units 1/2 Impoundment. After field investigation of the North Channel area to delineate ash and submittal of the investigation data and proposed additional data collection, EGLE and EPA determined that the ash associated with the North Channel will not be associated with Units 1/2 Impoundment. EGLE and EPA indicated that the North Channel ash will be documented as a potential CCR Management Unit under the EPA CCR Legacy Rule (40 CFR §257.95) (**Figure 2**).

2.2 Unit 3A/B Impoundments

The former CCR Unit 3A/B Impoundments were constructed as two above-ground surface impoundments underlain by a clay liner; however, the engineered clay liner did not meet Part 115 CCR surface impoundment liner criteria. Golder (2020) stated that the former 3A/B Impoundments were built over a “field of ash” that was generated from Boiler Units 1 & 2; however, existing soil borings do not support that a “field of ash” is present under the impoundments. Although the former coal-fired power generation facility ceased operations in February 2020, the Site continued to use the Unit 3A/B Impoundments to store cleanout materials from the hoppers, vessels, etc. prior to demolition of the buildings. The impoundments ceased receiving waste on July 30, 2020. Removal of CCR from the impoundments was completed on November 6, 2020 and the liner remains in place. Following the CCR removal, Golder conducted ash removal verification that was ultimately denied by EGLE. Further ash delineation will be conducted to define the extent of any remaining CCR adjacent to the Unit 3A/B Impoundments.

2.3 Hydrogeology

The uppermost aquifer across Harbor Island consists of fine sand with gravel and silt lenses, clay, peat, ash, and municipal solid waste located between the surface and 39 feet below surface. The bottom of the aquifer is believed to consist of a continuous clay observed between 20.8 and 39.0 feet below surface. The clay is observed at depth in borings MW-12, MW-17, PZ-16, PZ-26, PZ-24, PZ-25, and MW-30.

The regional general direction of groundwater flow is west to southwest towards Lake Michigan (Western Michigan University, 1981). The Grand River is located on the northern and western

side of the Site, and the South Channel is located on the south side of Harbor Island. Internal to the Island there are several influences to groundwater flow. Specifically, the following features:

- Various fill materials observed in boring logs,
- Surface water features, such as the inactive Units 1/2 Impoundment and internal wetland, and
- Former coal pile area which may have lower infiltration rates than other areas on the Island due to compaction from heavy equipment and stockpiling.

These features influence the groundwater velocity and flow direction and are very localized. Boring logs contained in the *Field Summary Report of Results from Approved Work Plan - Piezometer Installation and Additional Data Collection* show the observed fill materials encountered during well installation (Golder, 2022).

Groundwater mounding is shown around monitoring well MW-01R, consistent with observations made by Golder in 2021 (Golder, 2022). A groundwater contour map from the first quarter 2025 sampling is in **Appendix A**. The maps show groundwater flow beneath Unit 3A/B Impoundments is consistently west toward the Grand River. Groundwater flow beneath Units 1/2 Impoundment is generally radial: northward toward the north wetland, east from the ponds of Units 1/2 Impoundment toward the internal wetland, and potentially south near MW-05 (**Appendix A**). The internal wetland east of the Units 1/2 Impoundment appears to provide hydraulic separation between the CCR impoundments and the wells and piezometers located to the east (PZ-23 through PZ-26, MW-27, MW-33, and MW-34).

Groundwater was encountered between 5 and 15 feet below ground surface within the unconsolidated fill material. In 2021, Golder performed slug tests at monitoring wells MW-01R, MW-02, MW-04, MW-05, MW-07, MW-08, PZ-17, PZ-20, PZ-26, and MW-31. Hydraulic conductivity values observed across the Site range from 0.19 to 18.76 feet per day (Golder, 2022). Higher conductivity values were observed in tests completed at 172.51 feet per day at MW-17 and 242.25 feet per day at MW-20 (Golder, 2022). Additional slug tests were performed in July and August 2024 at MW-10, MW-12, PZ-15, MW-16, MW-17, MW-20, MW-32, MW-36, and MW-45. Data will be included in the revised Hydrogeologic Monitoring Plan. Additional information about groundwater velocity is included in Section 4.1.

2.4 Monitoring Well Network

The monitoring well network consists of the monitoring wells (MW-#) and piezometers (PZ-#) listed in **Table 1** and shown in **Figure 2**. The monitoring wells are sampled for water quality and water levels are monitored. The piezometers are monitored only for water levels. The monitoring network is composed of the following:

Units 1/2 Impoundment

Due to the size of Units 1/2 Impoundment compared to the limits of Harbor Island, and variable groundwater flow direction, a traditional upgradient/downgradient groundwater monitoring system is not possible. Further detail explaining the locations and justification of each well

location is provided in the Hydrogeologic Monitoring Plan (HDR, 2024). The following wells are utilized as the groundwater monitoring network:

- Background Wells: MW-27, MW-33, and MW-34
- Point of Compliance Wells (i.e. waste boundary wells): MW-06, MW-08, MW-18, MW-19, MW-20, MW-30, and MW-31
- Nature and Extent Wells: MW-07, MW-10, MW-16, MW-17, MW-28, MW-32, MW-36, and MW-37

Unit 3A/B Impoundments

The monitoring well network justification for the Unit 3A/B Impoundments is provided in the Hydrologic Monitoring Plan (HDR, 2024). The well network is as follows:

- Background Wells: MW-27, MW-33, and MW-34
- Point of Compliance Wells (i.e. waste boundary wells): MW-02, MW-03, MW-04, MW-11, and MW-12
- Nature and Extent Wells: MW-01R, MW-09, MW-10, and MW-38

Water Level Wells

The following piezometers are monitored for water level only and are not sampled: MW-05, PZ-13, PZ-14, PZ-15, PZ-21, PZ-22, PZ-23, PZ-24, PZ-25, PZ-26, PZ-29, MW-35, MW-39, and MW-40, shown on **Figure 2**. Piezometers PZ-21, PZ-22, and PZ-29 were installed within the wetland and are inaccessible at times and therefore are monitored less frequently.

Transducers are installed in the monitoring wells, stilling wells, and staff gauges that are marked on **Figure 2** with (T) next to the location ID. The transducers collect groundwater elevation data on a continuous one-hour frequency.

3.0 Monitoring

3.1 Groundwater Monitoring

Table 1 provides well identification numbers, well locations, the dates samples were collected during Quarter 1 2025, and whether a sample was required by the CCR Rule for the background sampling, detection monitoring or assessment monitoring programs. Any deviation in sample collection from the Hydrogeologic Monitoring Plan (HDR, 2024) is outlined in **Section 3.3**. Sampling for the first quarter was initiated in early February; however, the sampling team had an illness during the event and continuation of the event was in late February. Monitoring water levels across the network was completed on the same day.

Table 1. Dates of Groundwater Monitoring in First Quarter 2025		
Monitoring Well I.D.	Date Sampled	Monitoring Purpose
Background Monitoring Wells		
MW-27	2/27/2025	Detection Monitoring/Initial Assessment Monitoring
MW-33	2/3/2025	Detection Monitoring/Initial Assessment Monitoring
MW-34	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
Units 1/2 Compliance Monitoring Wells		
MW-06	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
MW-08	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-18	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-19	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-20	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-30	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
MW-31	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
Unit 3A/B Compliance Monitoring Wells		
MW-02	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
MW-03	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-04	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-11	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
MW-12	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
Nature and Extent Wells		
MW-01R	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
MW-07	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-09	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
MW-10	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-16	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
MW-17	2/3/2025	Detection Monitoring/Initial Assessment Monitoring
MW-28	2/27/2025	Detection Monitoring/Initial Assessment Monitoring
MW-32	2/25/2025	Detection Monitoring/Initial Assessment Monitoring
MW-36	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
MW-37	2/3/2025	Detection Monitoring/Initial Assessment Monitoring
MW-38	2/26/2025	Detection Monitoring/Initial Assessment Monitoring
Water Level Only Wells		
MW-05	2/3/2025	Water Level Only
PZ-13	2/3/2025	Water Level Only
PZ-14	2/3/2025	Water Level Only
PZ-15	2/3/2025	Water Level Only
PZ-23	2/3/2025	Water Level Only
PZ-24	2/3/2025	Water Level Only
PZ-25	2/3/2025	Water Level Only
PZ-26	2/3/2025	Water Level Only
PZ-29	2/3/2025	Water Level Only

Table 1. Dates of Groundwater Monitoring in First Quarter 2025		
Monitoring Well I.D.	Date Sampled	Monitoring Purpose
MW-35	2/3/2025	Water Level Only
MW-39	2/3/2025	Water Level Only
MW-40	2/3/2025	Water Level Only

3.2 Surface Water Monitoring

Surface water monitoring coincides with the groundwater sampling. The stilling wells (STW-1, STW-2, STW-3), as well as staff gauges SG-01, SG-03, and SG-06, are monitored for water levels only. Staff gauges SG-02, SG-04R, SG-05, SG-07 are monitored for water levels and surface water quality (**Figure 2**). Surface water monitoring dates are shown in **Table 2**. No surface water level data or samples could be collected in February because conditions at each location were either dry or frozen water. Deviations from the work plan are outlined in **Section 3.3**.

Table 2. Dates of Surface Water Monitoring in First Quarter 2025	
Well ID	Monitoring Date
SG-01	2/3/2025 ¹
SG-02	2/3/2025 ²
SG-03	2/3/2025 ²
SG-04R	2/3/2025 ¹
SG-05	2/3/2025 ¹
SG-06	2/3/2025 ¹
SG-07	2/3/2025 ²
STW-1	2/3/2025 ¹
STW-2	2/3/2025 ^{2,3}
STW-3	2/3/2025 ^{2,3}

1 – Monitoring location was dry, no surface water level was measured at the staff gauge.
 2 Monitoring location was frozen, no surface water level was measured at the staff gauge.
 3 Monitoring location was broken, no surface water level was measured at the staff gauge.

3.3 Water Level and Sample Collection

Monitoring wells were purged with a peristaltic pump until field parameters (pH, turbidity, conductivity, dissolved oxygen, temperature, and oxidation reduction potential) stabilized. The results of field measurements were recorded on a field data form, which is maintained as part of the field records and provided in **Appendix A**. After water quality parameters stabilized, samples were collected and tested for the parameters listed in **Table 3**. For quality control, one field duplicate sample was collected for each CCR unit per sampling event (two duplicate samples total per event). The following deviations from the Hydrogeologic Monitoring Plan for CCR Compliance were noted during the fourth quarter 2024 sampling event:

- Water levels were not measured in February 2025 at piezometers PZ-21, PZ-22, or PZ-29 due to deep water limiting access.

- In February 2025, water levels were not measured at staff gauges SG-01, SG-04R, SG-05, and SG-06, and at stilling well STW-1 due to low surface water conditions leaving the staff gauges and stilling well dry.
- Water levels were not measured at staff gauges SG-02, SG-03, SG-07, and stilling wells STW-2 and STW-3, because water at each measurement point was frozen.
- Transducers and housing at STW-2 and STW-3 were found to be broken due to ice flow of the river. These locations are being assessed for repair.
- FedEx lost a cooler containing groundwater samples for radium testing at wells MW-28, MW-27, MW-38, MW-36, MW-34, and MW-20. HDR informed EGLE advised to document that radium was not tested the 1st Quarter of 2025 for these six wells.

3.4 Analytical Testing

Samples from the wells listed in **Table 1** were analyzed for the constituents listed in **Table 3**.

Table 3. Constituents of Interest	
Constituents for Assessment Monitoring	
Antimony	Mercury
Arsenic	Molybdenum
Barium	Nickel
Beryllium	Radium-226
Boron	Radium-226/228
Cadmium	Radium-228
Calcium	Selenium
Chloride	Silver
Chromium	Sulfate
Cobalt	Thallium
Copper	Total Dissolved Solids (TDS)
Fluoride	Vanadium
Iron	Zinc
Lead	Additional Parameters
Lithium	Total Suspended Solids (TSS)

3.5 Data Validation and Management

Data validation and data management tasks were performed per the Hydrogeologic Monitoring Plan. Data validation was performed for sampling dates provided in **Table 1**. Data validation was conducted to eliminate any data that did not meet validation criteria and to designate a data qualifier for any data quality limitation discovered.

Samples and quality control (QC) data for the reporting period were reviewed and evaluated, and no samples were rejected. Most QC analyses were within reportable limits; however, when QC was outside control limits, samples were reported as estimated. Data analyses

required minimal qualifications, and the data were usable, even when qualified. Data validation reports are contained in **Appendix B**.

4.0 Monitoring Results

4.1 Water Levels and Groundwater Flow Direction

A potentiometric contour map was developed for the first quarter 2025 sampling event using the data provided in **Table 4**. The map displays the groundwater elevations as well as the potentiometric contours and is provided in **Appendix C**. A hydrograph (November 2022 through February 2025) for wells near the Units 1/2 Impoundment is shown in **Figure 3**. Groundwater around the perimeter of the impoundment has ranged from approximately 578.9 to 581.5 feet above mean sea level (ft AMSL) over the November 2022 to February 2025 monitoring period. The hydrograph (November 2022 through February 2025) for perimeter wells surrounding the Units 3A/B Impoundments, shown in **Figure 4**, indicates groundwater elevation beneath the impoundment ranged from 582 to 579 ft ASML during the November 2022 through February 2025 monitoring period.

Utilizing groundwater elevations reported on **Table 4**, the groundwater flow velocity for six pairs of monitoring wells was calculated and is provided in **Table 5**.

Potentiometric contours created from the groundwater elevations in **Table 4** show north and northwestern flow beneath Unit 3A/B Impoundments toward the Grand River, consistent with previous observations. Flow beneath Units 1/2 Impoundment is generally eastward toward the internal wetland, with the internal wetland having been consistently shown to be a hydraulic divide for Harbor Island. Although the water level at SG-02 could not be measured in February 2025 due to ice, groundwater flow near the North Channel outlet between SG-02 toward MW-31 has been inferred to be to the north during previous gauging events.

Groundwater flow observed at background wells MW-27, MW-33, and MW-34 is consistent with previous observations. Groundwater beneath the former CCR impoundments is inferred to be radial, flowing toward the Grand River, the North Channel, and the internal wetland. Because groundwater converges on the internal wetland from both the west side, where the impoundments are located; and from the east side, where the background wells are located, it can be inferred that groundwater under the CCR impoundments cannot flow to the background monitoring well locations east of the internal wetland.

Table 4. Groundwater and Surface Water Elevations in First Quarter 2025

Well ID	Groundwater Elevation (02/03/2025)
MW-01R	580.97
MW-02	578.99
MW-03	578.93

Table 4. Groundwater and Surface Water Elevations in First Quarter 2025

MW-04	579.01
MW-05	579.99
MW-06	580.51
MW-07	578.98
MW-08	579.1
MW-09	578.92
MW-10	579.52
MW-11	580.46
MW-12	580.12
PZ-13	578.81
PZ-14	579.04
PZ-15	579.44
MW-16	578.73
MW-17	579.75
MW-18	579.91
MW-19	579.57
MW-20	579.76
PZ-21	Inaccessible
PZ-22	Inaccessible
PZ-23	579.04
PZ-24	579.42
PZ-25	578.88
PZ-26	579.87
MW-27	580.20
MW-28	579.03
PZ-29	Inaccessible
MW-30	579.68
MW-31	579.89
MW-32	579.62
MW-33	580.70
MW-34	579.51
MW-35	580.1
MW-36	580.22
MW-37	579.58
MW-38	579.32
MW-39	579.78
MW-40	581.27
SG-01	DRY
SG-02	FROZEN
SG-03	FROZEN
SG-04R	DRY
SG-05	DRY

Table 4. Groundwater and Surface Water Elevations in First Quarter 2025

SG-06	DRY
SG-07	FROZEN
STW-1	DRY
STW-2	FROZEN/BROKEN
STW-3	FROZEN

Table 5. Groundwater Velocity Calculations

Well Pair	Area of Harbor Island	Distance (ft)	Porosity ¹	Hydraulic Conductivity (ft/day)	Groundwater Elevation (ft/ASML)	Hydraulic Gradient	Groundwater Velocity (ft/day)
PZ-25	Eastern	413	0.3	8.342 ²	578.88	0.0024	0.067
PZ-26					579.87		
PZ-25		400	0.3	8.342 ²	578.88	0.0004	0.011
PZ-23					579.04		
MW-01R	Western	247	0.3	6.233 ³	580.97	0.0083	0.172
MW-03					578.93		
MW-01R		274	0.3	6.233 ³	580.97	0.0072	0.149
MW-04					579.01		
MW-01R		226	0.3	6.233 ³	580.97	0.0043	0.090
MW-05					579.99		
MW-01R		262	0.3	6.233 ³	580.97	0.0055	0.115
MW-10					579.52		

1. Porosity value estimated using reference values for poorly sorted fine to medium sand (Freeze-Cherry, 1979).

2. Average hydraulic conductivity value from Golder (2022) on PZ-26.

3. Calculated by averaging hydraulic conductivity values from wells MW-01R, MW-02, MW-04, and MW-05 (Golder, 2022).

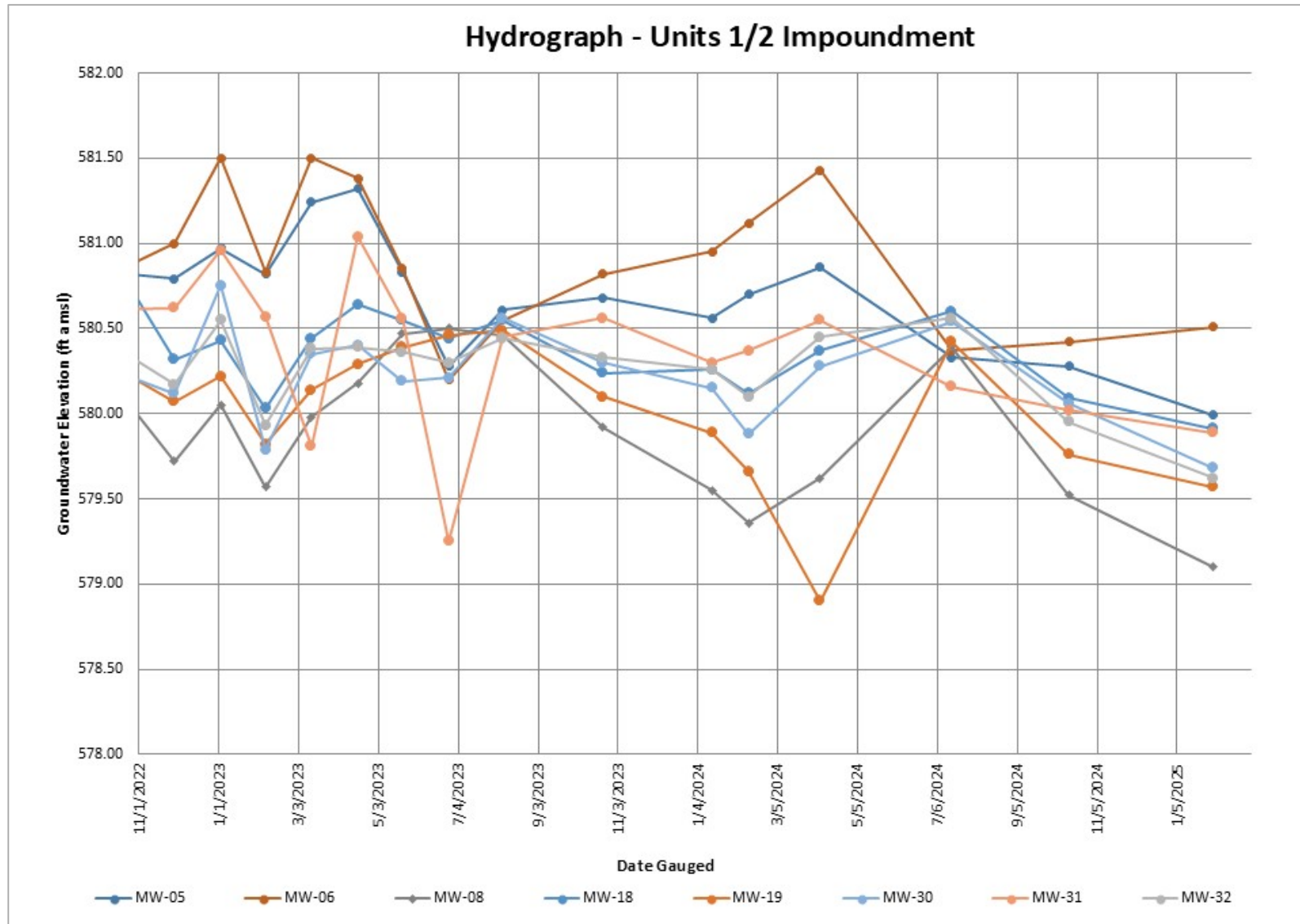


Figure 3 | Hydrograph of Wells Near Units 1/2 Impoundment

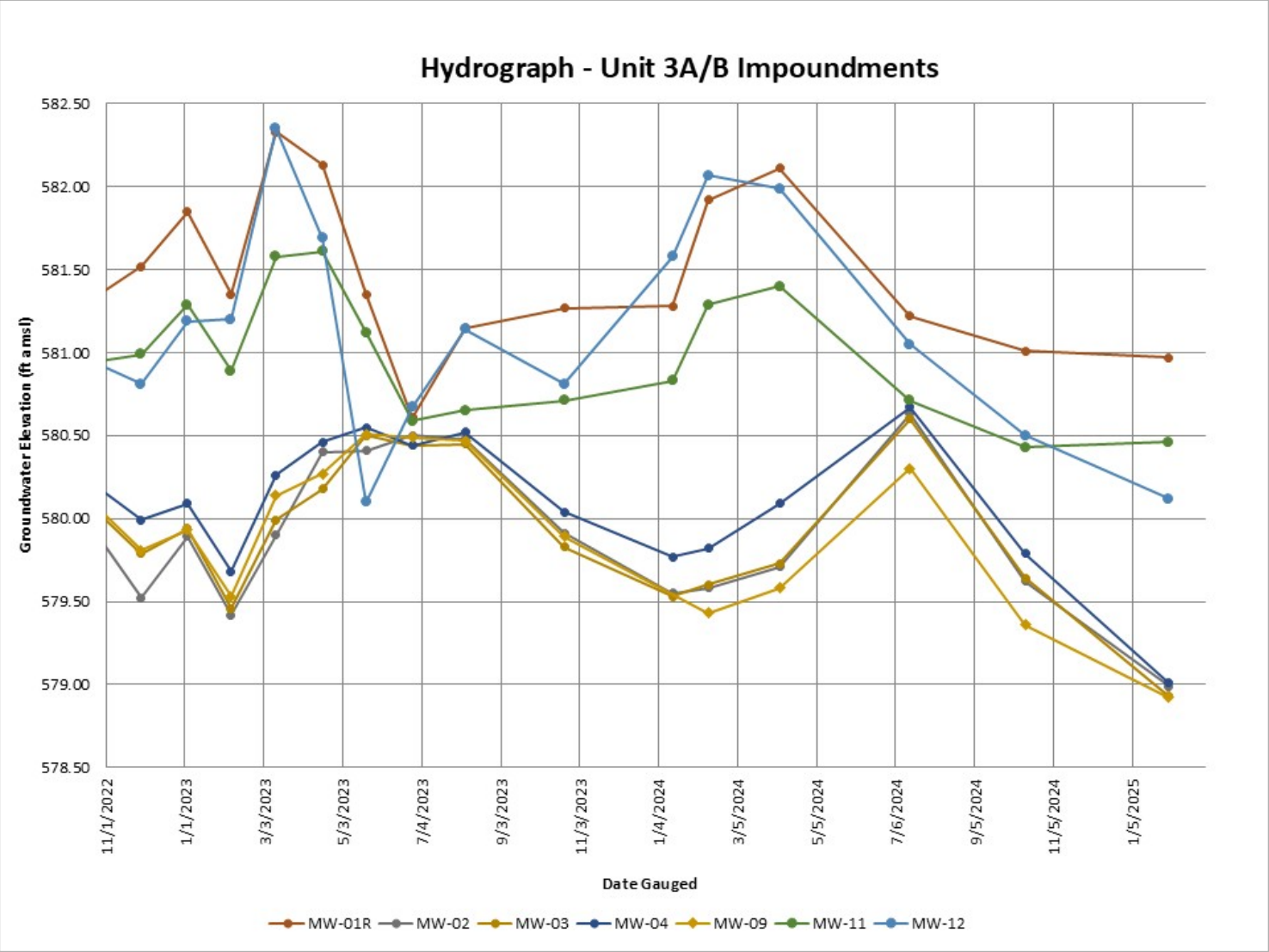


Figure 4 | Hydrograph of Wells and Piezometers Near Unit 3A/B Impoundments

Pressure transducers were installed at the locations shown in **Figure 5**. Transducer data was collected between December 21, 2023 through October 15, 2024. Trends observed from the limited dataset are as follows:

- The surface water elevation at SG-02 is generally higher in surface water elevation than MW-31, with the exception of specific dates where well MW-31 groundwater levels peak due to rapid infiltration of precipitation. These groundwater peaks generally coincide with precipitation events producing 0.5 inches or greater. The gradient between SG-02 and monitoring well MW-31 suggests that the majority of the time, surface water at the north side of the Unit 1/2 Impoundment discharges to groundwater and flows north toward the north wetland. A graph of the measurements is shown on **Figure 6**.
- The groundwater elevation at well MW-05 is higher than the surface water elevation at SG-04R, at the southern end of Wetland 1, during periods of significant precipitation. However, the majority of the time, the groundwater elevation at MW-05 is below the surface water of the impoundment, indicating that surface water discharges to groundwater to flow towards the south or southwest. A graph of the measurements is shown on **Figure 7**.
- Surface water at stilling well STW-2, located in the South Channel is generally at a lower elevation than the groundwater at well MW-16, for the duration of the monitoring period. This indicates groundwater on the southern side of the Island discharges to the South Channel during the winter months, but is nearly at equilibrium with South Channel during the summer months of 2024. A graph of the measurements is shown on **Figure 8**.
- Additionally, a comparison between SG-07 and STW-2 reveals that surface water elevations at SG-07 were higher for approximately 71% of the reporting period. This indicates the water from the internal wetland is discharging to the South Channel during a majority of the reporting period. A graph of the measurements is shown on **Figure 9**.
- The surface water elevation at SG-07 was lower than groundwater at PZ-24 except for the summer months when it is higher than groundwater to the east. The lack of correlation between the surface water and groundwater elevations appears to indicate little hydraulic connection between the two points. A graph of the measurements is shown on **Figure 10**.
- On the western side of the Island, a comparison of STW-3, PZ-13, and PZ-13 indicates that groundwater discharges to the Grand River the majority of the time. A graph of the measurements is shown on **Figure 11**.
- A comparison of MW-08 and SG-07 represents the flow between the internal wetland and the groundwater between the internal wetland and the northern wetland. Well MW-08 was higher in elevation generally between December 2023 and May 2024, when groundwater on the north side of the Island is discharging to the internal wetland. Then between June and September 2024, the wetland surface is higher than the groundwater at MW-08. A graph of the measurements is shown on **Figure 12**.



Figure 5 | Transducer Deployment Map

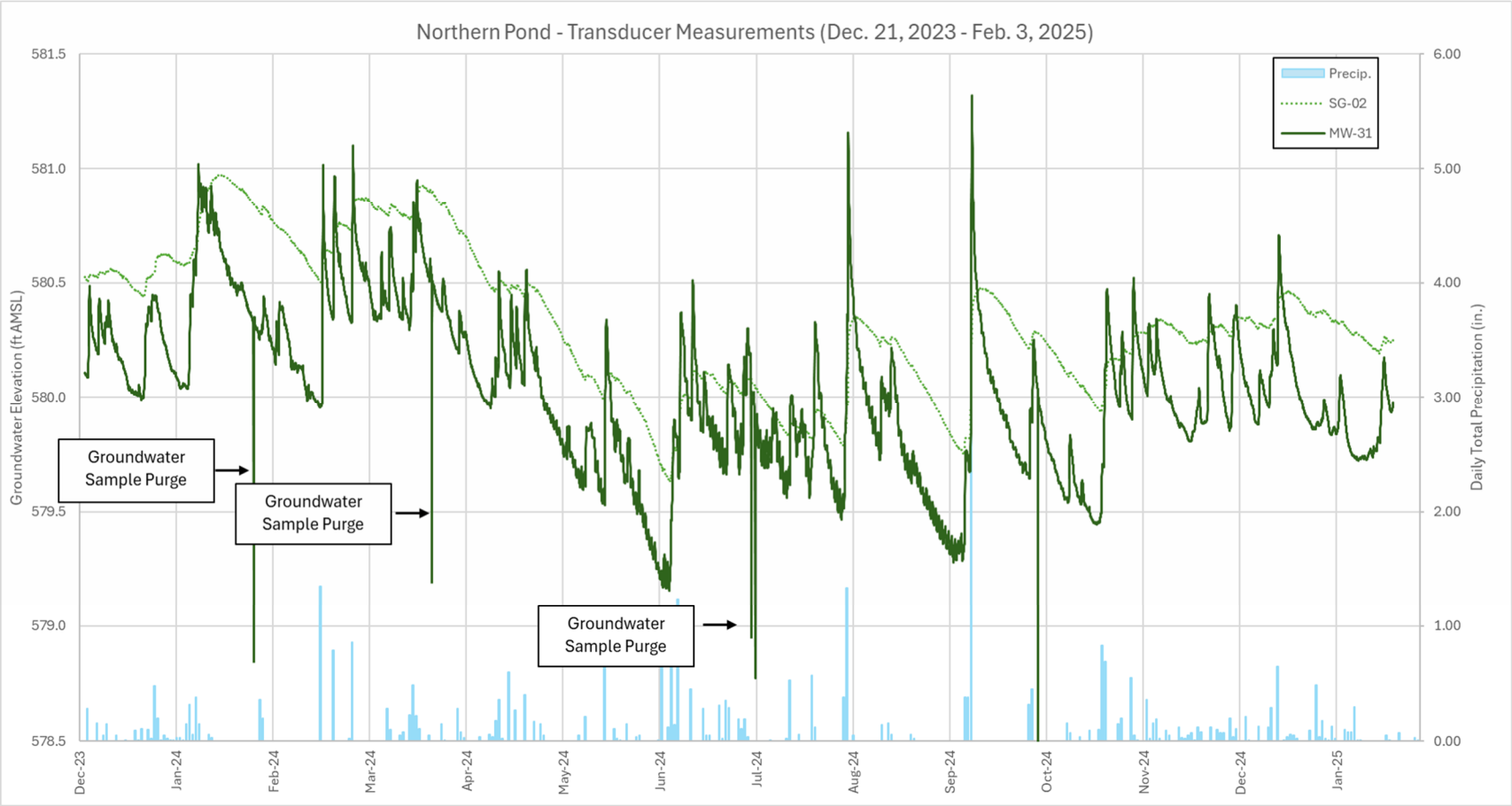


Figure 6 | Transducer Measurement Graph SG-02 and MW-31

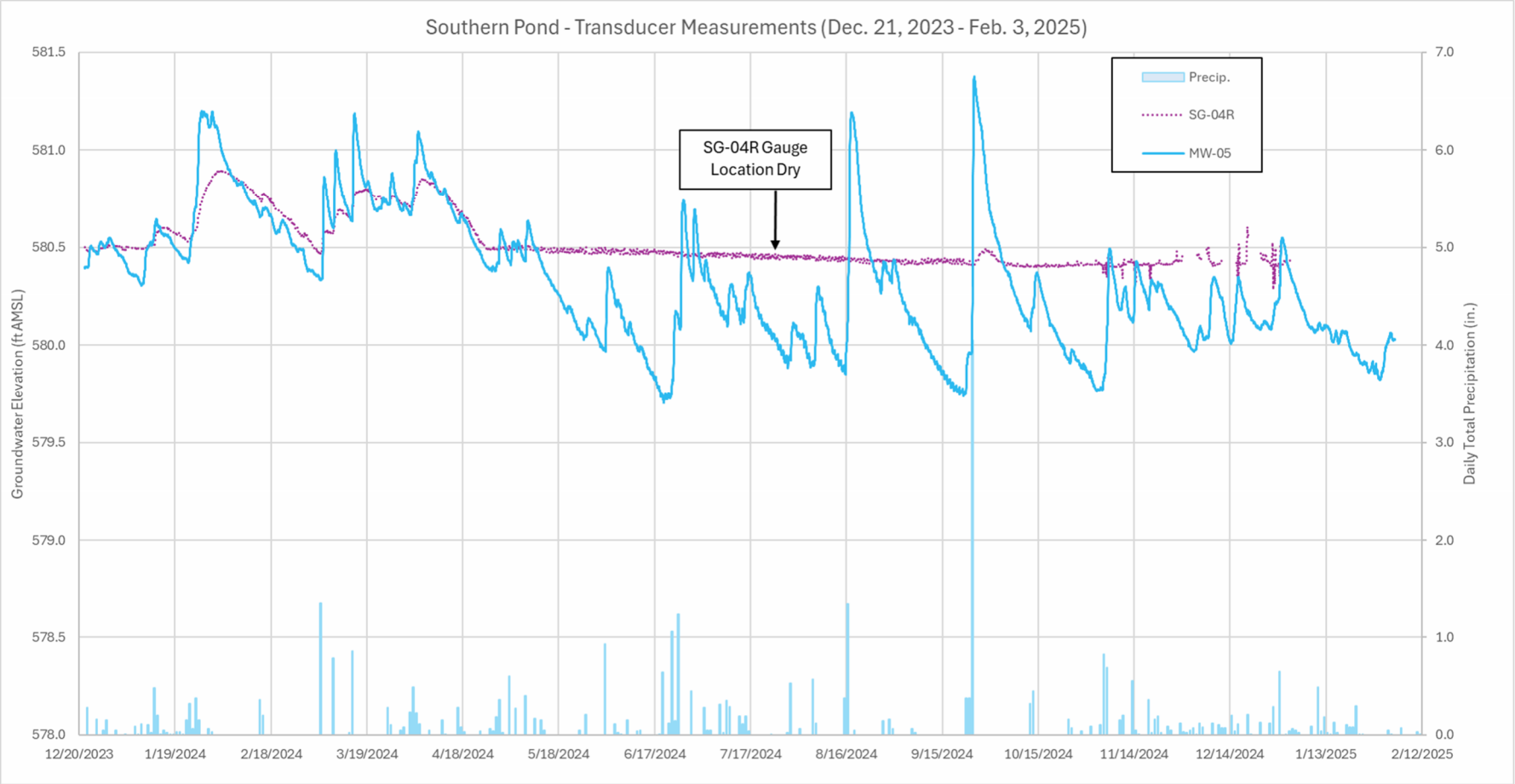


Figure 7 | Transducer Measurement Graph SG-04R and MW-05

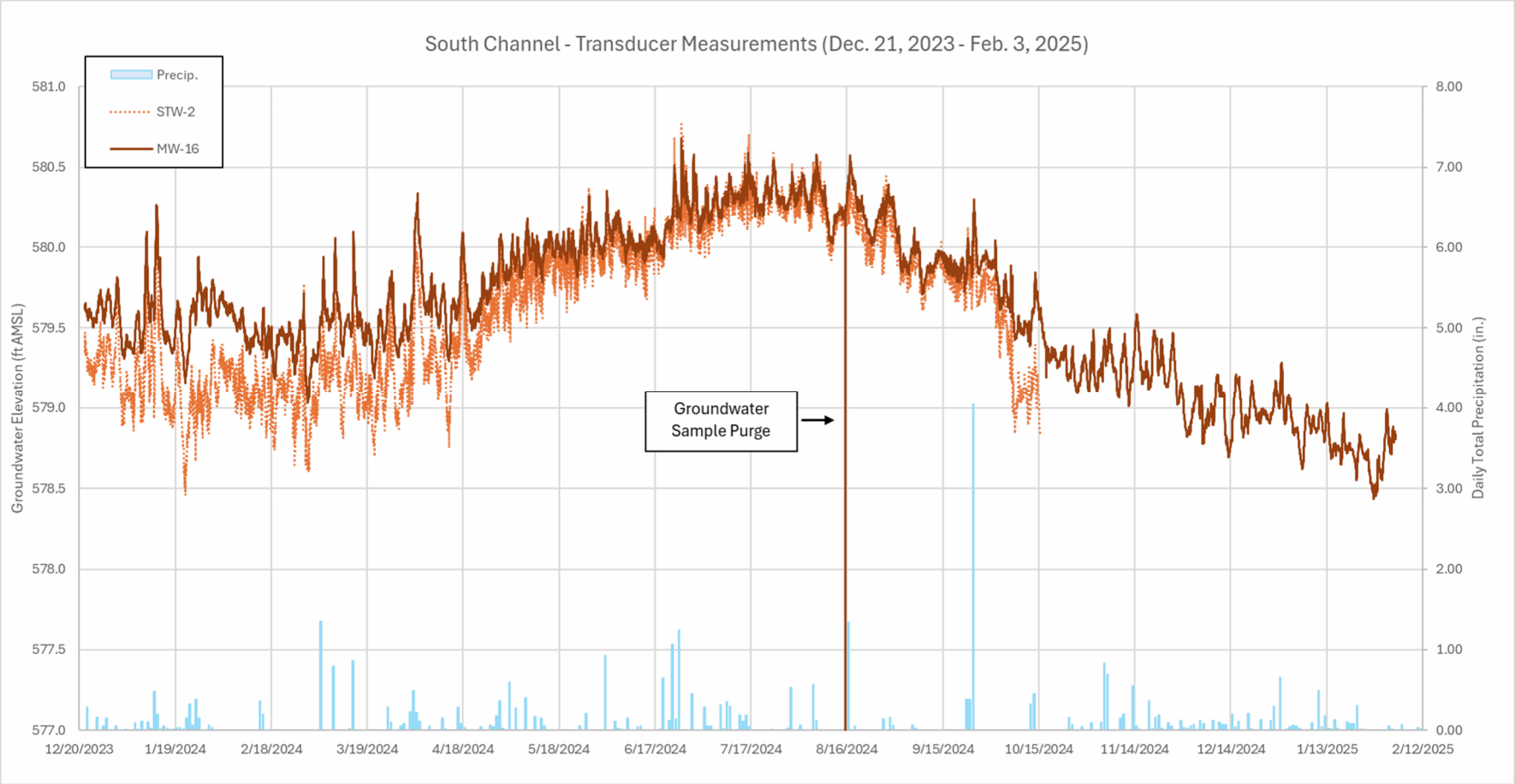


Figure 8 | Transducer Measurement Graph STW-2 and MW-16

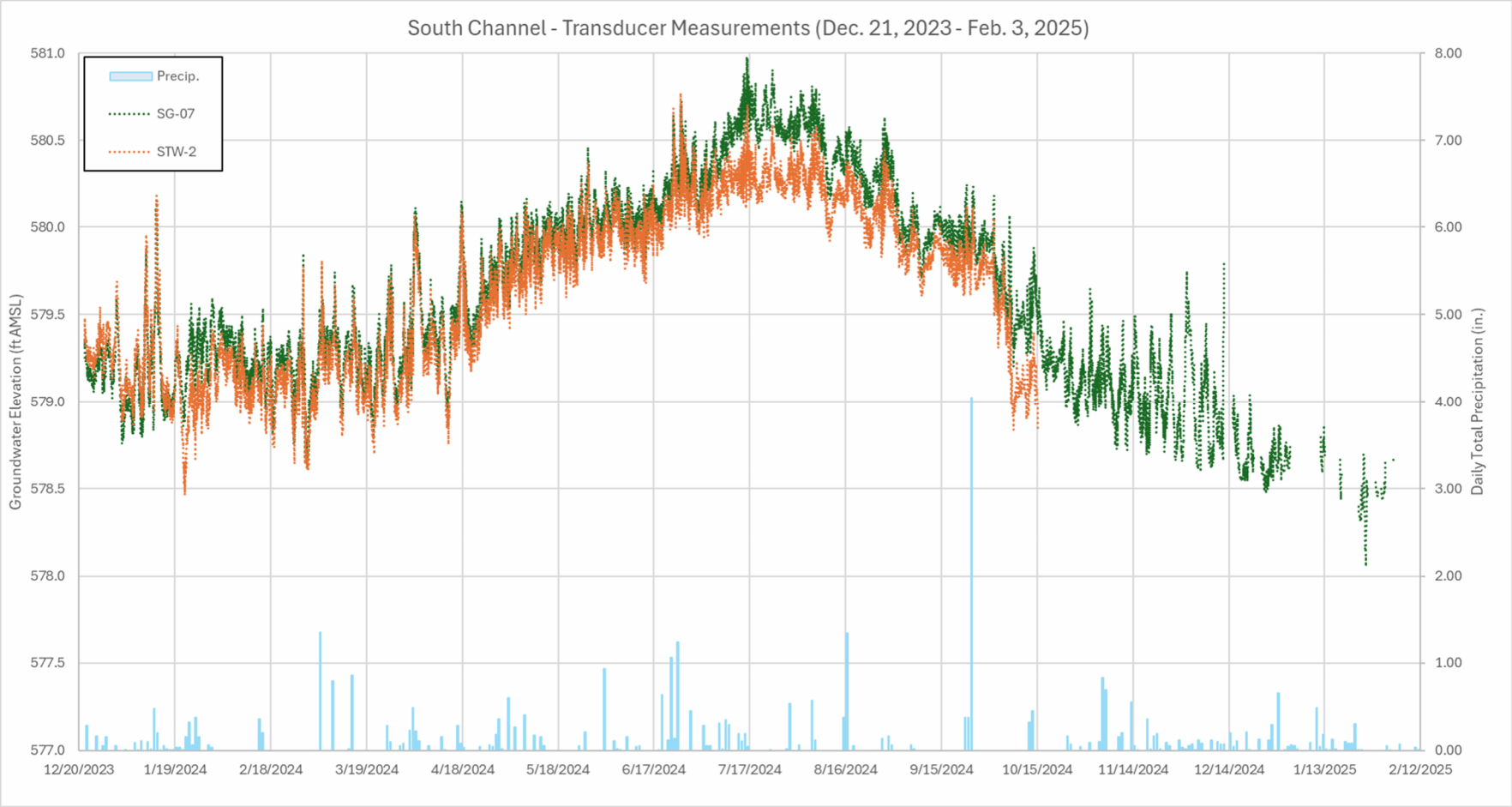


Figure 9 | Transducer Measurement Graph STW-2 and SG-07

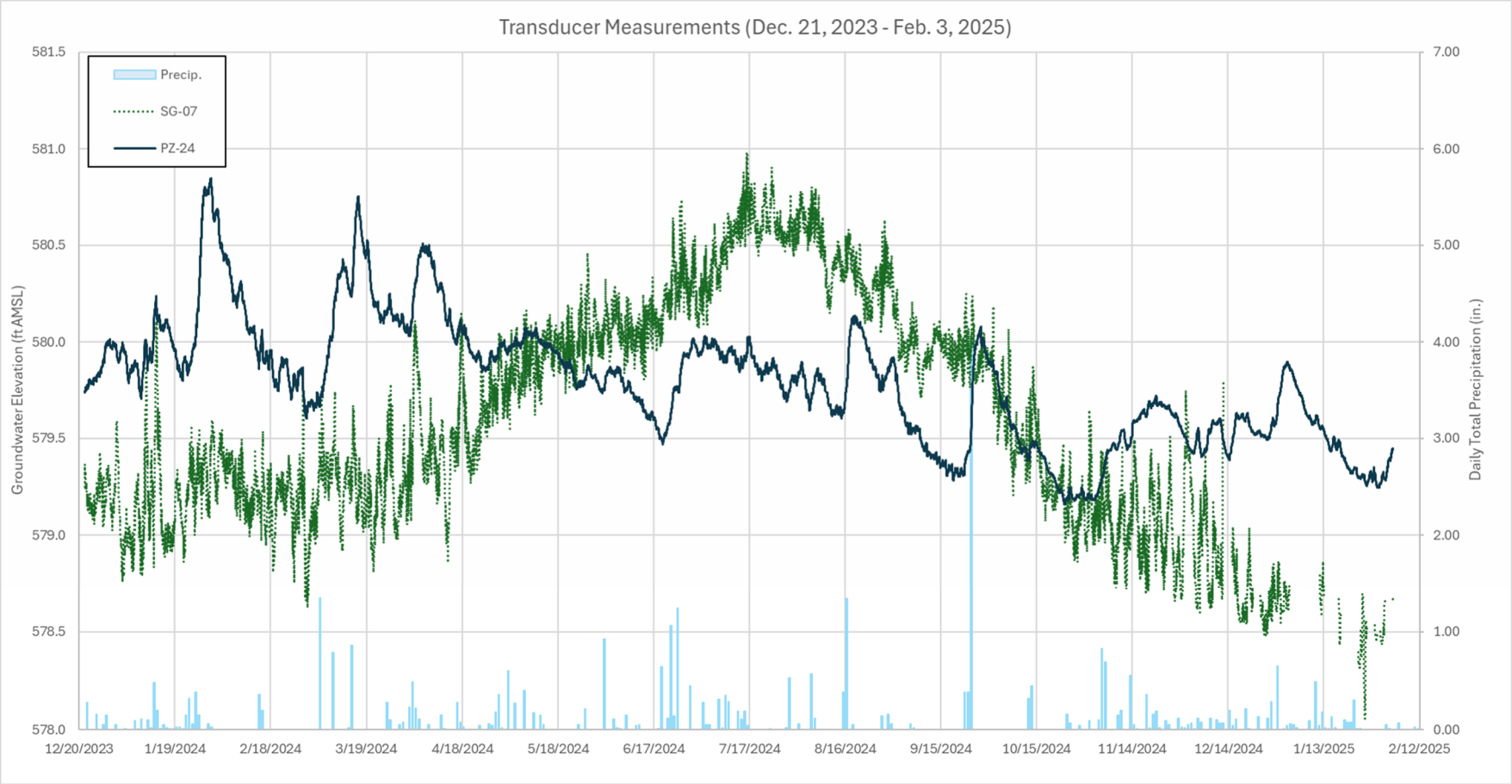


Figure 10 | Transducer Measurement Graph SG-07 and PZ-24

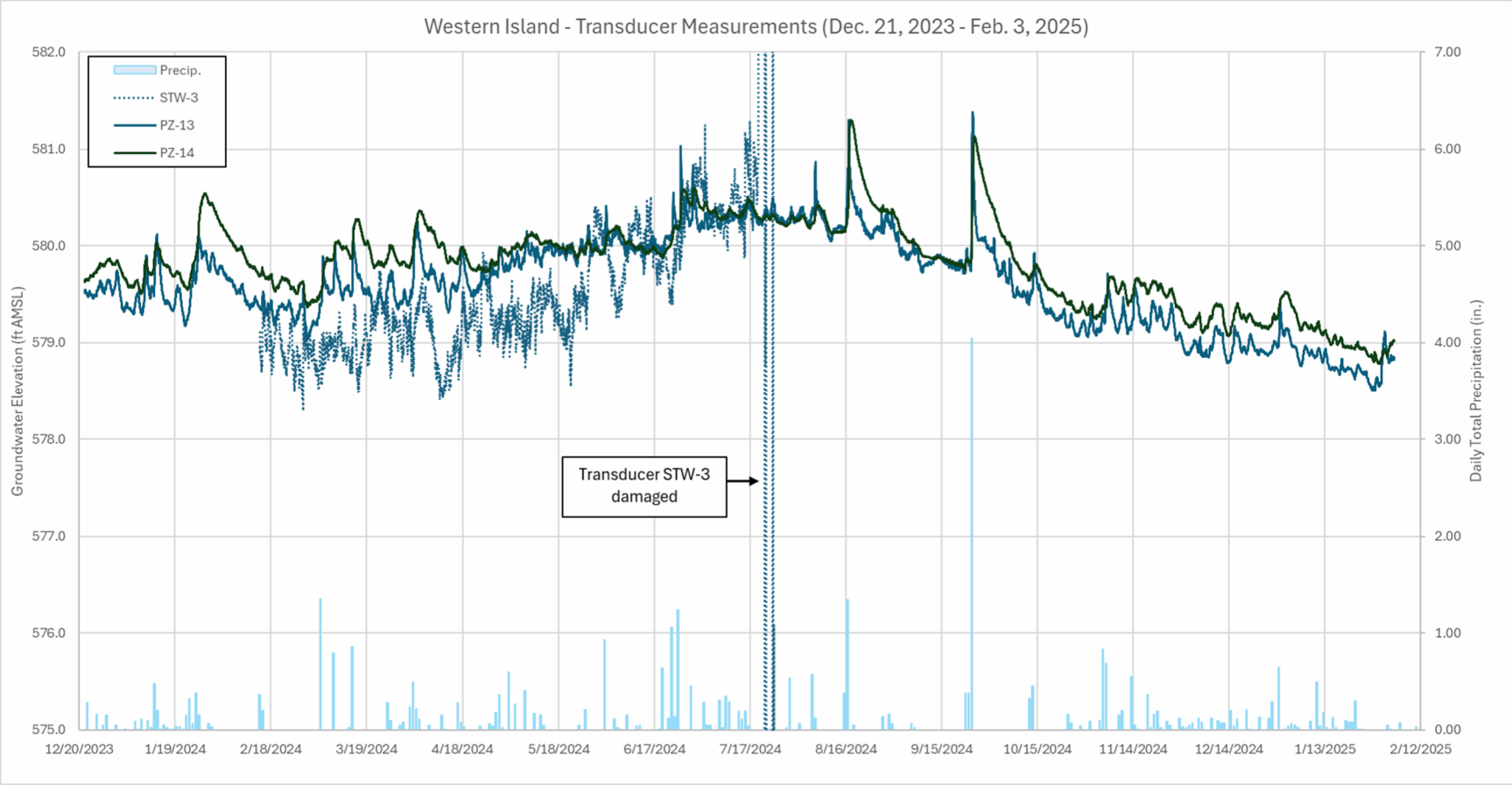


Figure 11 | Transducer Measurement Graph STW-3, PZ-13, and PZ-14

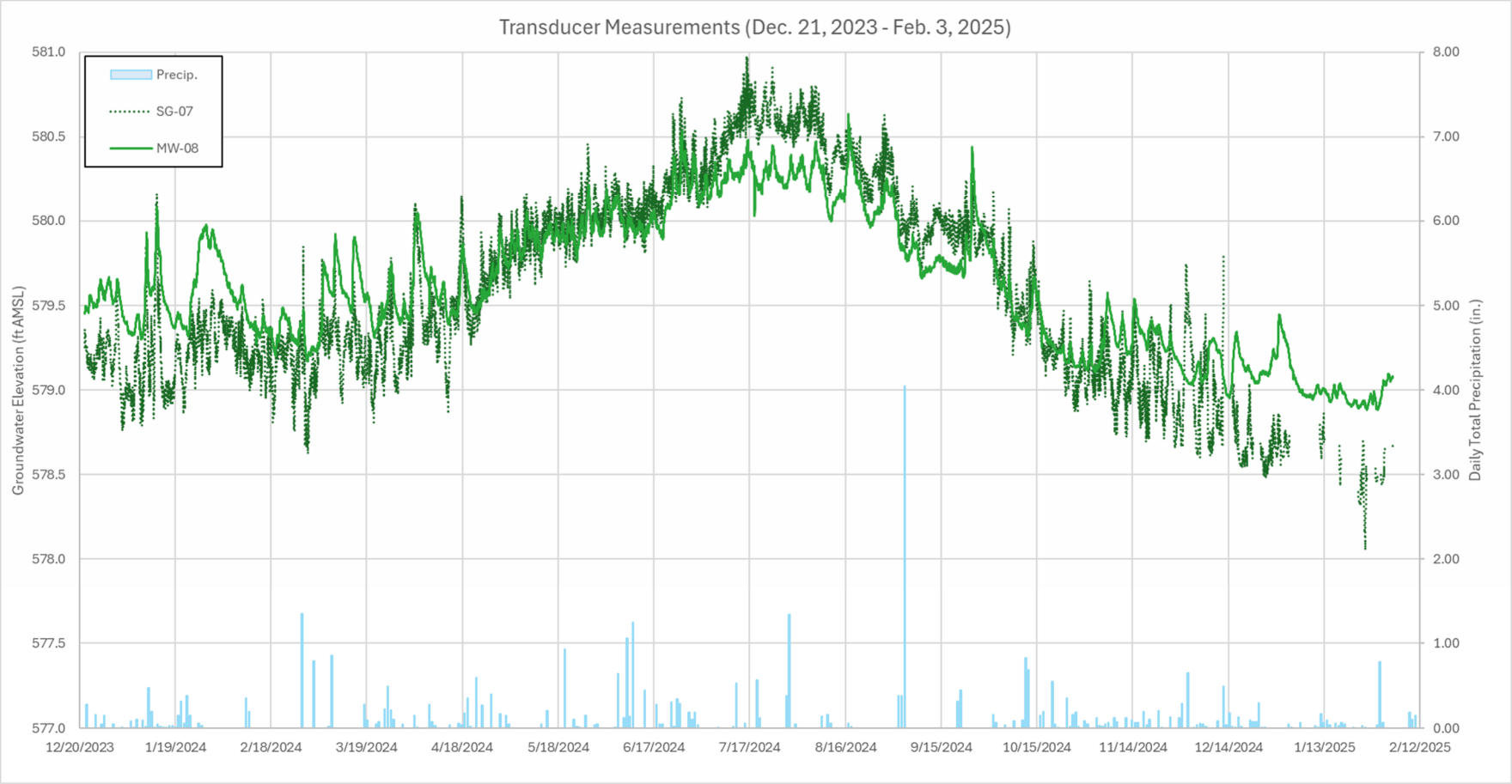


Figure 12 | Transducer Measurement Graph SG-07 and MW-08

4.2 Water Quality

In February 2025, an assessment monitoring event was conducted and the monitoring network provided in **Table 1** was sampled for the COIs contained in **Table 3**. The water quality data collected to date is presented in **Appendix D** and laboratory reports are provided in **Appendix E**.

4.2.1 Calculation of Groundwater Protection Standards

As required in Michigan Rule R 299.4441(9), the owner must establish GPS for each constituent detected in the groundwater when in assessment monitoring. The background value (95% upper tolerance limit [UTL]), maximum contaminant level (MCLs), applicable state cleanup criteria, and Site GPS for both CCR units are provided in **Table 6**.

Table 6. Background Values and State Groundwater Protection Standards for both Units 1/2 Impoundment and Unit 3A/B Impoundments

Parameter**	Site-Specific Background Level (UTL) (mg/L)	MCL (mg/L)	State Non-Res. Drinking Water Cleanup Criteria for Groundwater (mg/L)*	GSI (mg/L)*	GPS (mg/L)
Antimony	0.0012	0.0060	0.0060	0.13	0.0060
Arsenic	0.0040	0.010	0.010	0.010	0.010
Barium	0.58	2.0	2.0	1.3 ¹	1.3
Beryllium	0.000059	0.0040	0.0040	0.036 ¹	0.0040
Boron	4.0	NV	0.50	7.20	4.0
Cadmium	0.00015	0.0050	0.0050	0.0025 ¹	0.0025 ¹
Calcium	250	NV	N/A	N/A	250
Chloride	120	NV	250	50	120
Chromium	0.042	0.10	0.10	0.12 ¹	0.10
Cobalt	0.0021	0.0060	0.10	0.10	0.0060
Copper	0.020	1.30	1.0	0.021 ¹	0.021 ¹
Fluoride	0.45	4.0	2.0	NV	2.0
Iron	83	0.30	0.30	NV	83
Lead	0.0016	0.015	0.0040	0.014 ¹	0.0040
Lithium	0.10	0.040	0.35	0.44	0.10
Mercury	0.00016 ²	0.0020	0.0020	0.0000013	0.0000013
Molybdenum	0.0093	0.10	0.210	3.2	0.10
Nickel	0.023	NV	0.10	0.12 ¹	0.10
Radium 226 and 228 combined (pCi/L)	2.6	5.0	NV	NV	5.0
Selenium	0.00089	0.050	0.050	0.0050	0.0050
Silver	0.00011	0.10	0.098	0.00020	0.00020
Sulfate	100	250	250	NV	250
Thallium	0.000075	0.0020	0.0020	0.0037	0.0020

Total Dissolved Solids	950	500	500	500	950
Vanadium	0.00093	NV	0.0062	0.027	0.0062
Zinc	0.038	5.00	5.00	0.27 ¹	0.27 ¹

*Cleanup Criteria Requirements for Response Activity (Formerly the Part 201 Generic Cleanup Criteria and Screening Levels) found in R 299.44 Generic groundwater cleanup criteria.

**Metals data is analyzed and reported as total metals.

NV=no value

¹Per Footnote G of Table 1 Cleanup Criteria Requirements for Response Activity (Formerly the Part 201 Generic Cleanup Criteria and Screening Levels) of the Groundwater Surface Water (GSI) criteria list, values noted are calculated based on the hardness (expressed as CaCO₃) of the receiving waters. Surface water sample from the Grand River (SG-01) had a hardness of 270 mg/L that was used in the calculation of specific GSI values. The Grand River discharges into Lake Michigan, thus the GSI Criteria for Surface Water Protected for Drinking Water Use, is provided above.

²Based on comments provided by EGLE on the Hydrogeologic Monitoring Plan, future monitoring events will have lower analytical detection limits for mercury, which will address the background concentration relative to the GSI.

4.2.2 Identification of Groundwater Protection Standard (GPS) Exceedances

The February 2025 sampling data from compliance wells was compared to the GPS values provided in **Table 6**, and several COIs were found to exceed GPS at both CCR units. To determine if an exceedance of a GPS value was statistically significant, the 95% lower confidence limit (95LCL) was calculated for each of the downgradient wells. The statistical output files are in **Appendix E**. Analytical data tables are contained in **Appendix D**.

Units 1/2 Impoundment

Concentrations that exceeded GPS at SSLs are provided in **Table 7** for Units 1/2 Impoundment. SSLs identified are consistent with previous well and constituent observations.

Table 7. February 2025 LCLs that Exceed GPS for the Units 1/2 Impoundment				
Well	Constituent*	Unit	95% LCL	State GPS
MW-06	Boron	mg/L	8.6	4.0
	Lithium	mg/L	0.16	0.10
	Total Dissolved Solids	mg/L	1200	950
MW-07	Boron	mg/L	11	4.0
MW-08	Arsenic	mg/L	0.027	0.010
	Boron	mg/L	5.3	4.0
MW-10	Boron	mg/L	13	4.0
	Chloride (as Cl)	mg/L	200	120
	Fluoride	mg/L	4.4	2.0
	Lithium	mg/L	0.82	0.10
	Sulfate (as SO ₄)	mg/L	450	250
	Total Dissolved Solids	mg/L	1700	950
MW-18	Arsenic	mg/L	0.024	0.010
	Calcium	mg/L	320	250

Table 7. February 2025 LCLs that Exceed GPS for the Units 1/2 Impoundment

	Fluoride	mg/L	3.6	2.0
	Sulfate (as SO ₄)	mg/L	730	250
	Total Dissolved Solids	mg/L	1300	950
MW-19	Calcium	mg/L	450	250
	Sulfate (as SO ₄)	mg/L	910	250
	Total Dissolved Solids	mg/L	1800	950
MW-30	Calcium	mg/L	430	250
	Lithium	mg/L	0.12	0.10
	Sulfate (as SO ₄)	mg/L	780	250
	Total Dissolved Solids	mg/L	2100	950
MW-31	Boron	mg/L	4.3	4.0
	Fluoride	mg/L	4.6	2.0
MW-32	Lithium	mg/L	0.11	0.10

*Mercury LCLs appear greater than the GPS at all wells although no detections were reported and the LCL is based on the reporting limit. Beginning in the second quarter of 2025 (April 2025 sampling event), the low-level mercury sampling and analysis protocol will be employed to achieve reporting limits of 0.0013 ug/L, below the current LCL of 0.16 ug/L based on the reporting limit.

Unit 3A/B Impoundments

Concentrations that exceed GPS at SSLs are provided in **Table 8** for Unit 3A/B Impoundments. The February 2025 resulting SSLs are consistent with prior exceedances.

Table 8. February 2025 LCLs that Exceed GPS for Unit 3A/B Impoundments

Well	Constituent*	Unit	95% LCL	State GPS
MW-01R	Boron	mg/L	89	4.0
	Fluoride	mg/L	8.8	2.0
	Lithium	mg/L	1.9	0.10
	Sulfate (as SO ₄)	mg/L	290	250
	Total Dissolved Solids	mg/L	2300	950
MW-02	Boron	mg/L	95	4.0
	Chloride (as Cl)	mg/L	140	120
	Fluoride	mg/L	9.2	2.0
	Lithium	mg/L	1.3	0.10
	Total Dissolved Solids	mg/L	1800	950
MW-03	Calcium	mg/L	350	250
	Chloride (as Cl)	mg/L	140	120
	Sulfate (as SO ₄)	mg/L	270	250
	Total Dissolved Solids	mg/L	1900	950
MW-04	Calcium	mg/L	350	250
	Chloride (as Cl)	mg/L	140	120
	Sulfate (as SO ₄)	mg/L	580	250

Table 8. February 2025 LCLs that Exceed GPS for Unit 3A/B Impoundments

	Total Dissolved Solids	mg/L	1800	950
MW-09	Boron	mg/L	5.5	4.0
	Calcium	mg/L	330	250
	Fluoride	mg/L	2.4	2.0
	Lithium	mg/L	0.29	0.10
	Sulfate (as SO ₄)	mg/L	340	250
	Total Dissolved Solids	mg/L	1200	950
MW-10	Boron	mg/L	13	4.0
	Chloride (as Cl)	mg/L	200	120
	Fluoride	mg/L	4.4	2.0
	Lithium	mg/L	0.82	0.10
	Sulfate (as SO ₄)	mg/L	450	250
	Total Dissolved Solids	mg/L	1700	950
MW-11	Boron	mg/L	4.3	4.0

*Mercury LCLs appear greater than the GPS at all wells although no detections were reported and the LCL is based on the reporting limit. Beginning in the second quarter of 2025 (April 2025 sampling event), the low-level mercury sampling and analysis protocol will be employed to achieve reporting limits of 0.0013 ug/L, below the current LCL of 0.16 ug/L based on the reporting limit.

Surface Water Monitoring

Surface water samples were not collected during the February 2025 sampling event.

5.0 Summary

The following observations are based on CCR Rule compliance groundwater monitoring during the first quarter 2025:

- One groundwater sampling event was conducted in the first quarter 2025, in February 2025.
- Groundwater flow measured in the first quarter 2025 in the vicinity of Units 1/2 Impoundment is generally radial, with components flowing eastward toward the wetland, north toward SG-02, south toward MW-05, and west toward the Grand River
- Groundwater flow measured in the first quarter in the vicinity of Unit 3A/B Impoundments is primarily west to northwest toward the Grand River.
- No monitoring locations were installed or repaired in the first quarter 2025. Transducers and housing at STW-2 and STW-3 were found to be broken due to ice flow of the river. These locations are being assessed for repair.
- Transducer data indicates surface water from the ponds within Units 1/2 Impoundments infiltrates to groundwater. Groundwater on the south and eastern sides of the Island appear to be discharging to surface water (Grand River South Channel).
- The LCLs were re-calculated after the February 2025 assessment monitoring event and were compared to GPS values. Similar SSLs were identified for Units 1/2 Impoundment as in previous monitoring events.

- The LCLs were re-calculated after the February 2025 assessment monitoring event and were compared to GPS values. Similar SSLs were identified for the Unit 3A/B Impoundments as in previous monitoring events.
- No surface water samples were collected due to frozen or dry conditions.

A Remedial Investigation Site Specific Data Collection Work Plan is being drafted to assist in the remediation alternatives feasibility assessment and remedy selection process. The list of data collection activities include:

- Aquifer Test (Pump Test) - The test will be conducted to provide aquifer characterization data and help determine pumping rates from the aquifer.
- Unit 3A/B Ash Delineation - The objective of the ash delineation is to determine the lateral and vertical extent of any CCR present on the roads adjacent to Unit 3A/B Impoundments. Results of the investigation will guide the method selected to remove any potential remaining CCR in the target area.
- Exploratory Borings – During the boring process, soil samples will be collected to confirm the existence of the suspected clay unit beneath the surficial aquifer, as well as to provide data to inform potential slurry wall construction. Following drilling, monitoring wells will be installed to investigate groundwater flow direction and to assess the vertical extent of any contamination.
- Ash Characterization – Bottom ash samples from the Units 1/2 Impoundment will be collected to characterize the CCR.

Work under the plan is anticipated to begin in the first half 2025, pending EGLE review and approval and budget approvals.

6.0 References

ERM, 2017. Groundwater Monitoring System Certification for the Grand Haven Board of Light and Power, Environmental Resources Management Michigan, Inc. November 2017.

Golder Associates, Inc., 2018. 2017 Annual Groundwater Monitoring and Corrective Action Report. January 30, 2018.

Golder Associates, Inc., 2018a. Notice of Groundwater Protection Standard Exceedance. October 15, 2018.

Golder Associates, Inc., 2019. CCR Impoundment Ash Delineation at the J.B. Sims Generating Station. October 14, 2019.

Golder Associates, Inc., 2020. 2019 Annual Groundwater Monitoring & Corrective Action Report. January 31, 2020.

Golder Associates, Inc., 2022. Field Summary Report of Results from Approved Work Plan -Piezometer Installation and Additional Data Collection. February 15, 2022.

HDR, 2024, Hydrogeologic Monitoring Plan. November 1, 2024.

HDR, 2024a., Former J.B. Sims Generating Station Determination of Statistically Significant Increases over Background per §257.93(h)(2) and R 299.4440(8) of the Michigan Part 115 Rules. January 24, 2024.

Western Michigan University, Department of Geology. "Hydrogeologic Atlas of Michigan, Volume 1". The Department of Geology, Kalamazoo, Michigan. 1981.

Appendix A

Field Data Sheets

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-01R
 Sample I.D. (match bottle and COC form exactly): MW-01R
 Personnel: AB
 Date: 2/25/25 Static Depth to Water (ft, btoc) 8.17
 Date/Time Sample Collected (match bottle and COC form exactly): 2/25/25, 1428
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Duplicate Yes No Duplicate Sample ID: _____
 Sample QC: Equipment Blank Yes No Equip Blank Sample ID: _____
 Well Purging Data (Fill In All Blanks)
 Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
 Time Completed: _____ Total Purge _____ Units L

Field Measurements:

1556

START Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1600		7.67	2.74	0.08	1.03	7.3	-6.0	8.30
1604		7.69	2.84	0.02	0.56	7.4	-38.0	8.32
1608		7.71	2.90	0.02	0.33	7.4	-53.3	8.32
1612		7.72	2.91	0.02	0.16	7.4	-64.0	8.33
1616		7.73	2.93	0.02	0.04	7.5	-69.2	8.34
1620		7.73	2.95	0.02	0.02	7.5	-73.9	8.35
1624		7.74	2.96	0.02	0.01	7.4	-77.1	8.36
1628		7.75	2.97	0.02	0.02	7.4	-80.5	8.36

Flow Rate ~100 mL/min

Pump controller setting 60%

General Comments:

black particulate @ start of purge

Water Sample Collection Field Data Sheet

Site Name: Grand Haven-Harbor Island Well ID.: MW-02

Sample I.D.(match bottle and COC form exactly): MW-02

Personnel: AT

Date: 2/25/25 Static Depth to Water (ft, btoc) 17.03

Date/Time Sample Collected (match bottle and COC form exactly): 2/25/25 12:12pm

Sample Method: low flow denitrific

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes ☒ No ☐ Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes ☐ No ☒ Equip Blank Sample ID:

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, bto) dedicated tubing

Time Completed: 12:12 pm Total Purge 7.5 Units L

Field Measurements:

[illegible]

Flow Rate 60 150 ml/min

Pump controller setting 50%.

General Comments:

brown color; wt meter needed to be cleaned off multiple times to get a good reading; foamy, golden color in turbidity vial

WL stabilized ~ 18.2 ft btrc during purge

Site Name: GHHI Well ID: MW-0403

Personnel: APB

Date: 2/26/25 Static Depth to Water (ft, btoc) 14.40

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25; 820

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: Yes No

Sample QC: Duplicate Yes ☒ No ☐ Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes ☐ No ☒ Equip Blank Sample ID: _____

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: _____ Total Purge _____ Units 2

Start 800

510 W pump 150

Flow Rate $\sim 175 \mu\text{L}/\text{min}$

Pump controller setting 55⁴²

General Comments:

Start : 828

Finish: 900

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-04
 Sample I.D.(match bottle and COC form exactly): MW-04
 Personnel: AB
 Date: 2/20/25 Static Depth to Water (ft, btoc) 12.74
 Date/Time Sample Collected (match bottle and COC form exactly): 2/20/25; 942
 Sample Method: LF Per.
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Duplicate Yes No Duplicate Sample ID: _____
 Sample QC: Equipment Blank Yes No Equip Blank Sample ID: _____
 Well Purging Data (Fill In All Blanks)
 Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
 Time Completed: _____ Total Purge _____ Units L

Field Measurements:

Start Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
914		7.28	2.34	2.21	3.03	6.4	-26.0	12.89
918		7.22	2.37	1.12	0.64	8.0	-33.2	12.98
922		7.22	2.37	3.01	0.31	8.0	-34.7	13.09
926		7.21	2.38	2.89	0.26	7.9	-36.5	13.16
930		7.22	2.38	0.99	0.14	8.0	-38.1	13.20
934		7.21	2.38	0.02	0.12	8.4	-39.6	13.23
938		7.21	2.38	0.02	0.10	8.4	-40.1	13.25
942		7.22	2.39	0.02	0.09	8.4	-40.9	13.26

Flow Rate ~150 mL/min
 Pump controller setting 50%
 General Comments:

Water Sample Collection Field Data Sheet

Site Name: Grand Haven Harbor Island Well ID.: MW-06

Sample I.D.(match bottle and COC form exactly): MW-06

Personnel: AT

Date: 2/26/25 Static Depth to Water (ft, btoc) 9.43

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25 3:17pm

Sample Method: low flow peristaltic

Water level meter, pump, and tubing decontaminated prior: ☒ Yes ☐ No

Sample QC: Duplicate Yes ☒ No Duplicate Sample ID: —

Sample QC: Equipment Blank Yes ☒ No Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 3:17pm Total Purge 7.0 Units —

Field Measurements:

Time (24 hour)	Amount purged (ml) L	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
2:21	1.0	7.52	1.93	10.5	0.40	8.2	108.8	
2:26	2.0	7.52	1.93	8.35	0.30	8.3	105.8	
2:32	3.0	7.51	1.93	8.64	0.27	8.3	100.6	
2:37	4.0	7.51	1.93	8.90	0.36	8.2	96.6	
2:41	5.0	7.50	1.94	8.87	0.26	8.3	93.2	
2:46	6.0	7.50	1.93	8.21	0.27	8.2	90.5	
2:51	7.0	7.47	1.93	8.36	0.28	8.2	88.1 88.1	

Flow Rate ~250 mL/min

Pump controller setting 50%

General Comments:

clear clear w/ black particulates

Site Name: GHHI Well ID.: MW-07

Personnel: AB

Date: 2/26/25 Static Depth to Water (ft, btoc) 7.58

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25 1130

Sample Method: LF Pers

Water level meter, pump, and tubing decontaminated prior: Yes No

Sample QC: Duplicate Yes (No) Duplicate Sample ID:

Sample QC: Equipment Blank Yes ☐ No ☒ Equip Blank Sample ID:

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: _____ Total Purge _____ Units 1

Start: 1602

Flow Rate $\sim 200 \text{ mL/min}$
Pump controller setting 55%

very turbid @ start of purge - orange flecks

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-08

Sample I.D. (match bottle and COC form exactly): MW-08

Personnel: AB

Date: 2/26/25 Static Depth to Water (ft, btoc) 6.13

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25, 1242

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID:

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID:

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: Total Purge Units L

Field Measurements:

Start @ 1214

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1218		7.26	1.01	13.4	0.13	4.9	-13.9	6.32
1222		7.24	1.01	12.7	0.04	5.0	-19.7	6.34
1226		7.23	1.01	8.67	0.02	5.0	-23.4	6.33
1230		7.23	1.01	0.41	0.00	5.0	-27.3	6.33
1234		7.23	1.00	0.02	0.02	5.0	-30.0	6.33
1238		7.23	1.00	0.02	0.01	5.0	-33.1	6.33
1242		7.23	1.01	0.51	0.01	5.0	-35.9	6.33

Flow Rate ~200 mL/min

Pump controller setting 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: Grand Haven - Harbor Island Well ID.: MW-09

Sample I.D. (match bottle and COC form exactly): MW-09

Personnel: AT

Date: 2/25/25 Static Depth to Water (ft, btoc) 11.12

Date/Time Sample Collected (match bottle and COC form exactly): 2/25/25 4:06pm

Sample Method: low flow peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: -

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: -

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 4:06pm Total Purge 10.0 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml) L	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
2:50	1.0	6.86	2.28	18.5	0.65	8.7	73.8	
2:56	2.0	6.95	2.34	13.7	2.12	8.9	69.0	
3:00	3.0	6.97	2.36	8.38	0.37	9.0	67.1	
3:05	4.0	6.98	2.37	6.33	0.31	9.0	66.1	
3:09	5.0	6.99	2.37	3.89	0.40	8.9	64.7	
3:14	6.0	6.99	2.36	3.38	0.43	9.2	63.5	
A 3:19	7.0	6.99	2.36	2.03	2.91	9.1	62.3	
3:24	8.0	6.99	2.37	2.58	3.33	9.3	60.9	
3:29	9.0	6.99	2.37	1.68	3.24	9.2	59.6	
3:32	9.5	7.00	2.38	0.78	3.12	9.2	58.7	
3:35	10.0	7.00	2.36	0.73	3.08	9.1	58.3	

Flow Rate 256 gal/min 4

Pump controller setting 55% → 45% slowed down because water level continued to drop & DO spiked

General Comments:

water is clear with small orange floaters

Water Sample Collection Field Data Sheet

Site Name: Grand Haven Harbor Island Well ID.: MW-10

Sample I.D.(match bottle and COC form exactly): MW-10

Personnel: AT

Date: 2/26/25 Static Depth to Water (ft, btoc) 6.43

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25 4:46pm

Sample Method: low flow peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: -

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: -

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 4:46pm Total Purge 8.0 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml) <u>L</u>	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
3:44	1.0	7.75	2.66	27.9	0.74	5.0	114.3	
3:49	2.0	7.76	2.87	10.7	0.37	5.1	111.1	
3:54	3.0	7.77	2.87	7.09	0.23	5.2	108.3	
3:58	4.0	7.78	2.87	6.29	0.22	5.2	106.7	
4:02	5.0	7.78	2.87	6.88	0.13	5.2	104.5	
4:07	6.0	7.77	2.83	4.96	0.14	5.2	102.6	
4:12	7.0	7.76	2.87	3.42	0.12	5.4	100.5	
4:15	8.5	7.76	2.87	3.48	0.16	5.5	99.6	11.6
4:16	8.0	7.76	2.87	3.30	0.17	5.5	97.0	

Flow Rate ~250mL/min

Pump controller setting 45%.

General Comments:

clear w/ fine black particulates that dissipated

Water Sample Collection Field Data Sheet

Site Name: Grand Haven Harbor Island Well ID.: MW-11

Sample I.D.(match bottle and COC form exactly): MW-11

Personnel: AT

Date: 2/25/25 Static Depth to Water (ft, btoc) 15.19

Date/Time Sample Collected (match bottle and COC form exactly): 2/25/25 1:47pm

Sample Method: low flow peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1:47pm Total Purge 7.6 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml) L	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
12:50	1.0	7.02	1.82	12.3	0.27	9.6	59.1	
12:55	2.0	7.04	1.80	6.33	0.19	9.5	57.4	
1:00	3.0	7.06	1.78	4.34	0.16	9.6	56.1	
1:05	4.0	7.07	1.76	2.38	0.27	9.6	54.8	
1:10	5.0	7.07	1.74	1.65	0.40	9.7	53.2	
1:15	6.0	7.08	1.72	1.37	0.42	9.7	52.5	
1:19	7.0	7.09	1.71	1.36	0.44	9.6	50.6	

Flow Rate 250 mL/min

Pump controller setting 55%

General Comments:

water is mostly clear but with black floating debris that dissipated
as purging continued

water level during purging stabilized ~15.4 ft btoc

Site Name: GHHI Well ID.: mw-12

Personnel: AB

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25, 1174

Water level meter, pump, and tubing decontaminated prior: ☒ Yes ☐ No

Sample QC: Equipment Blank Yes No Equip Blank Sample ID: _____

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: _____ Total Purge _____ Units L

Start 1056

Flow Rate $\sim 200 \text{ mL/min}$

Pump controller setting 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-110
 Sample I.D.(match bottle and COC form exactly): MW-110
 Personnel: AB
 Date: 2/25/25 Static Depth to Water (ft, btoc) 6.37
 Date/Time Sample Collected (match bottle and COC form exactly): 2/25/25; 1512
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Duplicate Yes No Duplicate Sample ID: _____
 Sample QC: Equipment Blank Yes No Equip Blank Sample ID: _____
 Well Purging Data (Fill In All Blanks)
 Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
 Time Completed: _____ Total Purge _____ Units L

Field Measurements:

START 1444

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1448		7.32	1.33	0.02	0.48	4.1	-19.8	6.55
1452		7.30	1.33	0.97	0.20	4.3	-33.5	6.57
1456		7.30	1.35	0.41	0.16	4.2	-40.6	6.58
1500		7.29	1.35	0.28	0.12	4.3	-45.4	6.58
1504		7.29	1.35	0.48	0.06	4.6	-48.6	6.59
1508		7.29	1.35	0.51	0.07	4.5	-49.3	6.59
1512		7.29	1.36	0.59	0.06	4.5	-51.2	6.60

Flow Rate ~200 mL/min
 Pump controller setting 60%
 General Comments:

Water Sample Collection Field Data Sheet

Site Name: Grand Haven - Harbor Island Well ID.: PZ-17
 Sample I.D.(match bottle and COC form exactly): PZ-17
 Personnel: AT
 Date: 2/3/25 Static Depth to Water (ft, btoc) 7.32
 Date/Time Sample Collected (match bottle and COC form exactly): 2/3/25 2:14pm
 Sample Method: low flow peristaltic
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Duplicate Yes No Duplicate Sample ID: -
 Sample QC: Equipment Blank Yes No Equip Blank Sample ID: -
 Well Purging Data (Fill In All Blanks)
 Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
 Time Completed: 2:14pm Total Purge 10.0 Units L

Field Measurements:

Time (24 hour)	Amount purged (mfl)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1:30	1.0	7.19	1.06	19.6	0.32	6.5	46.0	
1:33	2.0	7.32	1.05	18.7	0.23	6.7	13.5	
1:36	3.0	7.40	1.05	15.5	0.14	6.7	-7.7	
1:39	4.0	7.47	1.04	13.8	0.06	6.8	-23.3	
1:42	5.0	7.53	1.04	11.4	0.13	6.7	-35.3	
1:45	6.0	7.58	1.03	7.77	0.04	6.8	-46.0	
1:48	7.0	7.62	1.03	5.43	0.04	6.8	-54.0	
1:51	8.0	7.65	1.02	3.37	0.03	6.8	-61.1	
1:54	9.0	7.67	1.02	3.63	0.02	6.8	-69.4	
1:57	10.0	7.69	1.02	3.69	0.01	6.7	-74.4	

Flow Rate 330 mL/min

Pump controller setting 65%

General Comments:

Slightly gray w/ floaters that dissipated as purging continued

Water Sample Collection Field Data Sheet

Site Name: Grand Haven - Harbor Island Well ID.: MW-18

Sample I.D. (match bottle and COC form exactly): MW-18

Personnel: AT

Date: 2/26/25 Static Depth to Water (ft, btoc) 7.30

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25 12:14

Sample Method: low flow peristaltic 12:14 PM

Water level meter, pump, and tubing decontaminated prior: Yes No

Sample QC: Duplicate Yes No Duplicate Sample ID: -

Sample QC: Equipment Blank Yes No Equip Blank Sample ID: -

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 12:14 pm Total Purge Units

Field Measurements:

Time (24 hour)	Amount purged (ml) L	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
11:20	1.0	7.31	1.85	85.7	0.72	5.7	101.1	
11:25	2.0	7.22	1.85	29.4	0.47	5.6	96.0	
11:30	3.0	7.20	1.86	21.9	0.26	5.6	90.2	
11:34	4.0	7.19	1.86	14.1	0.18	5.6	87.0	
11:38	5.0	7.18	1.85	10.3	0.39	5.5	84.5	
11:42	6.0	7.18	1.85	6.19	0.39	5.4	82.6	
11:47	7.0	7.18	1.85	6.14	0.42	5.4	80.8	
11:51	8.0	7.18	1.85	4.55	0.47	5.3	79.4	

Flow Rate ~275 mL/min

Pump controller setting 55%

General Comments:

yellow-orange hue; very stable WL

Site Name: Grand Haven Harbor Island Well ID.: MW-19

Personnel: MT

Date: 2/26/75 Static Depth to Water (ft, btoc) 1.1

Date/Time Sample Collected (match bottle and COC form exactly): 7/26/25 1:38pm

Sample Method: Low Flow sensitive

Water level meter, pump, and tubing decontaminated prior: ☒ Yes ☐ No

Sample QC: Duplicate Yes No Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes ☐ No ☒ Equip Blank Sample ID:

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1:58pm Total Purge Units

[illegible]

Flow Rate 250 mL/min

Pump controller setting 50%

General Comments:

very clear right away

Site Name: CHH1 Well ID.: mw-20
Sample I.D.(match bottle and COC form exactly): mw-20
Personnel: AB
Date: 2/26/25 Static Depth to Water (ft, btoc) 5.95
Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25, 1522
Sample Method: LF Per
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Duplicate Yes No Duplicate Sample ID: _____
Sample QC: Equipment Blank Yes No Equip Blank Sample ID: _____
Well Purging Data (Fill In All Blanks)
Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
Time Completed: _____ Total Purge _____ Units 2

Start 1454

[illegible]

Pump controller setting 60%

General Comments:

orange flakes @ start of purge

Water Sample Collection Field Data Sheet

Site Name: Grand Haven - Harbor Island Well ID.: MW-27
 Sample I.D. (match bottle and COC form exactly): MW-27
 Personnel: AT
 Date: 2/27/25 Static Depth to Water (ft, btoc) 4.77
 Date/Time Sample Collected (match bottle and COC form exactly): ~~2/28~~ 2/27/25 8:44am
 Sample Method: low flow peristaltic
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Duplicate Yes (No) Duplicate Sample ID: -
 Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: -
 Well Purging Data (Fill In All Blanks)
 Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
 Time Completed: 8:44am Total Purge Units

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
7:42	0.5	6.75	1.86	17.3	2.51	4.6	165.3	
7:45	1.0	6.75	1.88	16.9	1.22	4.0	160.3	
7:49	1.5	6.76	1.92	11.6	2.22	3.9	158.0	
7:53	2.0	6.76	2.00	9.51	2.26	3.8	157.3	
7:57	2.5	6.77	2.10	9.37	1.98	3.6	157.3	
8:00	3.0	6.77	2.12	7.48	1.72	3.8	157.0	
8:04	3.5	6.78	2.18	6.76	1.63	4.0	157.1	
8:07	4.0	6.78	2.23	6.61	1.46	4.0	157.1	
8:10	4.5	6.79	2.27	5.70	1.50	4.0	156.4	
8:14	5.0	6.79	2.32	6.03	1.50	4.0	154.8	

Flow Rate ~125 mL/min

Pump controller setting SET 451

General Comments:

very clear, low flow to prevent drawdown
small suspended particles

Site Name: GHHL Well ID.: MW-2E

Sample I.D.(match bottle and COC form exactly): MW-2E

Personnel: AB

Date: 2/27/25 Static Depth to Water (ft, btoc) 8.95

Date/Time Sample Collected (match bottle and COC form exactly): 2/27/25, 0815

Sample Method: LF Per

Water level meter, pump, and tubing decontaminated prior: ☒ Yes ☐ No

Sample QC: Duplicate ☐ Yes ☒ No Duplicate Sample ID:

Sample QC: Equipment Blank ☐ Yes ☒ No Equip Blank Sample ID:

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: Total Purge Units L

812, + 0740

black/white flecks @ start of purge

Water Sample Collection Field Data Sheet

Site Name: C1441 Well ID.: MW-30
 Sample I.D. (match bottle and COC form exactly): MW-30
 Personnel: AB
 Date: 2/25/25 Static Depth to Water (ft, btoc) 10.11
 Date/Time Sample Collected (match bottle and COC form exactly): 2/25/25, 1352
 Sample Method: LF Peric
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Duplicate Yes No Duplicate Sample ID: _____
 Sample QC: Equipment Blank Yes No Equip Blank Sample ID: _____
 Well Purging Data (Fill In All Blanks)
 Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
 Time Completed: _____ Total Purge _____ Units L

Field Measurements:

START 1320

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1324		6.80	4.14	12.2	0.39	5.7	18.8	6.16
1328		6.81	4.18	5.52	0.21	5.6	7.4	6.20
1332		6.78	4.27	4.48	0.17	5.6	0.4	6.20
1336		6.78	4.45	3.52	0.17	5.6	-3.6	6.21
1340		6.80	4.75	1.89	0.08	5.5	-9.4	6.21
1344		6.81	4.98	1.77	0.02	5.7	-16.0	6.21
1348		6.82	5.11	1.21	0.01	5.6	-19.0	6.21
1352		6.82	5.15	1.15	0.01	5.7	-21.4	6.21

Flow Rate ~ 150 mL/min

Pump controller setting 55%w

General Comments:

replaced tubing

Site Name: GHH1 Well ID.: mw-31
Sample I.D.(match bottle and COC form exactly): MW-31
Personnel: AB
Date: 2/25/25 Static Depth to Water (ft, btoc) 5.98
Date/Time Sample Collected (match bottle and COC form exactly): 2/25/25; 1050
Sample Method: LF Peri
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Duplicate Yes No Duplicate Sample ID: _____
Sample QC: Equipment Blank Yes No Equip Blank Sample ID: _____
Well Purging Data (Fill In All Blanks)
Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
Time Completed: _____ Total Purge _____ Units L

Start 1015

[illegible]

Pump controller setting 25%

General Comments:
purging well @ slowest possible rate without pump
shutting off

Start Fill: 1050
Finish Fill: 1130

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-32
 Sample I.D.(match bottle and COC form exactly): MW-32
 Personnel: AB
 Date: 2/25/25 Static Depth to Water (ft, btoc) 6.99
 Date/Time Sample Collected (match bottle and COC form exactly): 2/25/25 ; 1212
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Duplicate Yes (No) Duplicate Sample ID: _____
 Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____
 Well Purging Data (Fill In All Blanks)
 Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing
 Time Completed: _____ Total Purge _____ Units L

Field Measurements:

Start 1144

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1148		7.62	1.04	28.5	0.27	8.0	-58.3	7.01
1152		7.63	1.06	14.7	0.02	8.0	-85.0	7.01
1156		7.65	1.06	11.9	0.03	7.6	-98.4	7.01
1200		7.66	1.06	10.9	0.02	7.6	-104.3	7.01
1204		7.67	1.06	7.75	0.01	7.4	-113.4	7.01
1208		7.63	1.07	6.27	0.02	7.3	-119.1	7.01
1212		7.6	1.07	5.04	0.01	7.3	-122.6	7.01
		7.67						

Flow Rate 200ml/min

Pump controller setting 55%

General Comments:

Well began purge very turbid

START FILL: 1212

END FILL: 1302

Water Sample Collection Field Data Sheet

Site Name: Grand Haven - Harbor Island Well ID.: MW-33

Sample I.D. (match bottle and COC form exactly): MW-33

Personnel: AT

Date: 2/3/25 Static Depth to Water (ft, btoc) 2.04 (levelized ~2.72 ft btoc during purge)

Date/Time Sample Collected (match bottle and COC form exactly): 2/3/25 4:46pm

Sample Method: per static

Water level meter, pump, and tubing decontaminated prior: ☒ Yes ☐ No

Sample QC: Duplicate ☒ Yes ☐ No Duplicate Sample ID: MWT-33 4 2/3/25 5:00pm

Sample QC: Equipment Blank ☐ Yes ☒ No Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 5:00pm Total Purge 100 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml) L	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
3:49	1.0	7.44	0.686	14.9	1.33	5.8	57.7	
3:54	2.0	7.40	0.687	9.60	0.76	6.1	51.3	
3:58	3.0	7.38	0.692	9.45	0.72	6.2	48.9	
4:02	4.0	7.38	0.692	8.23	0.34	6.2	46.2	
4:06	5.0	7.36	0.683	4.91	0.78	6.2	44.9	
4:09	6.0	7.35	0.689	3.70	0.69	6.3	43.5	
4:12	7.0	7.33	0.688	2.87	0.81	6.4	42.5	
4:16	8.0	7.31	0.694	2.29	0.67	6.6	42.0	
4:20	9.0	7.28	0.705	1.79	0.58	6.7	41.9	
4:24	10.0	7.25	0.716	1.72	0.44	6.8	42.0	

Flow Rate ~250 mL/min Pump Start 3:44pm

Pump controller setting 60/L

General Comments:

Had to pump water out of well's flush mount - plug was submerged;
yellow tint

Site Name: C1HH1 Well ID: MW-34

Personnel: AB

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25, 1402

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes No Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes ☐ No ☒ Equip Blank Sample ID: _____

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: _____ Total Purge _____ Units 6

Start 1338

[illegible]

Flow Rate

Pump controller setting

General Comments:

Water Sample Collection Field Data Sheet

Site Name: Grand Haven Harbor Island Well ID.: MW-36

Sample I.D.(match bottle and COC form exactly): MW-36

Personnel: AT

Date: 2/26/25 Static Depth to Water (ft, btoc) 9.62

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25 10:50am

Sample Method: low flow peristaltic

Water level meter, pump, and tubing decontaminated prior: ☒ Yes ☐ No

Sample QC: Duplicate Yes ☒ No Duplicate Sample ID: —

Sample QC: Equipment Blank Yes ☒ No Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 10:50am Total Purge 7.0 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)L	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
10:02	0.5	10.72	0.560	71.2	0.39	5.2	142.0	
10:07	1.0	10.51	0.558	19.1	0.17	5.2	140.1	
10:11	2.0	10.11	0.559	10.6	0.14	5.2	138.3	
10:15	3.0	9.91	0.563	4.80	0.14	5.3	136.5	
10:19	4.0	9.77	0.576	3.90	0.16	5.4	135.0	
10:23	5.0	9.67	0.594	2.86	0.14	5.3	133.6	
10:27	6.0	9.55	0.611	2.59	0.06	5.3	132.1	
10:30	6.5	9.58	0.615	2.95	0.06	5.3	131.2	
10:32	7.0	9.54	0.614	2.82	0.06	5.4	130.6	

Flow Rate 250 mL/min

Pump controller setting 45%

General Comments:

light gray tint

Water Sample Collection Field Data Sheet

Site Name: Grand Haven - Harbor Island Well ID.: MW-37

Sample I.D.(match bottle and COC form exactly): MW-37

Personnel: AT

Date: 2/3/25 Static Depth to Water (ft, btoc) 10.05

Date/Time Sample Collected (match bottle and COC form exactly): 2/3/25 12:18pm

Sample Method: low flow peristaltic

Water level meter, pump, and tubing decontaminated prior: Yes No

Sample QC: Duplicate Yes No Duplicate Sample ID: -

Sample QC: Equipment Blank Yes No Equip Blank Sample ID: -

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 12:18pm Total Purge 10.0 Units L

Field Measurements:

Time (24 hour)	Amount purged (mL) L	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
11:35	1.0	6.81	1.11	3.69	0.41	8.0	214.5	
11:38	2.0	6.92	1.11	2.04	0.48	8.0	157.1	
11:45	5.0	7.05	1.10	1.00	1.02	7.9	112.8	
11:49	6.0	7.08	1.10	0.14	1.13	7.9	103.1	
11:52	7.0	7.11	1.10	1.08	1.19	7.9	92.9	
11:54	8.0	7.13	1.09	0.02	1.10	8.0	87.2	
11:57	9.0	7.15	1.09	0.02	1.05	7.9	79.3	
12:00	10.0	7.16	1.09	0.02	0.89	7.9	74.1	

Flow Rate ~330 mL/min

Pump controller setting 70%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-38

Sample I.D.(match bottle and COC form exactly): MW-38

Personnel: AB

Date: 2/26/25 Static Depth to Water (ft, btoc) ~~dedicated~~ 11.46 ^{AT pvgg dng} @ 930

Date/Time Sample Collected (match bottle and COC form exactly): 2/26/25, 1155

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: Yes No

Sample QC: Duplicate Yes No Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes No Equip Blank Sample ID: _____

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: _____ Total Purge _____ Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1018								11.78 - after purging
1022		9.20	0.95	24.2	0.67	6.1	3.0	12.22
1026		9.91	0.93	16.8	0.37	6.1	-5.8	12.83
1030		9.57	0.91	10.1	0.37	6.0	-7.8	13.25 - dry pump off
1040								12.77
1042		9.07	0.91	1.18	0.33	6.0	-1.1	12.93
1044		9.07	0.92	1.19	0.31	6.1	-0.4	13.00
1046		9.10	0.92	1.14	0.32	6.0	-8.4	13.25 - dry pump off
1155 →		9.12	0.91	8.46	0.33	6.0	-5.7	—

Flow Rate ~90ml/min

Pump controller setting ~20%

General Comments:

per MR - sample recharge throughout day
get field cond while sampling LF NTU ≥ 10, collect dissolved

Water Level Sweep – Measurement and Inspection Form

Site: CHH1

Sample Event: Feb 2025 - Q1

Field Personnel: A. Byts

Date: 2/3/2025

Well I.D.	Date	Well Type (e.g., Flush Mount, Stickup, Other)	Well Diameter (e.g., 1 inch, 2 inch, 4 inch)	Well Pad Condition (e.g., good, average, bad)	Prior Date Depth to Water (ft, btoc)	Current Depth to Water (ft, btoc)	Total Depth (ft, btoc)	Notes/Comments Time
01R	2/3/25	Stick	2"	good		7.48		1136
02						16.65		1121
03						14.15		1117
04						12.48		1115
05						7.63		1424
06						9.89		1133
07						7.51		1209
08						10.24		1440
09						10.60		1126
10						7.21		1644
11						14.81		1131
12						7.91		1112
13						7.13		1044
14						7.27		1048
15						12.94		1226
16						6.18		1221
17						7.27		1201
18						7.31		1417
19						10.29		1622
20						5.98		1206
21								Not Accessible
22								"
23						8.17		1244
24						7.83		1248
25						7.49		1240

Water Level Sweep - Measurement and Inspection Form

Site: LAHH1

Sample Event: FEB 2025 - Q1

Field Personnel: A. Byks

Date: 2/3/2025

Well ID	Date	Well Type (e.g., Flush Mount, Stickup, Other)	Well Diameter (e.g., 1 inch, 2 inch, 4 inch)	Well Pad Condition (e.g., good, average, bad)	Prior Date Depth to Water (ft, btoc)	Current Depth to Water (ft, btoc)	Total Depth (ft, btoc)	Notes/Comments Time
20	2/3/25	Stick	2"	good		6.40		1251
21						4.89		1335
28						9.04		1339
29								Not Accessible
30						6.12		1455
31						5.84		1502
32		↑				6.64		1449
33		FLUSH				2.11		1320
34		FLUSH				4.86		1307
35		FLUSH				9.62		1330
36		Stick				9.40		1156
37						10.04		1109
38						11.19		1054
39						7.58		1149
40		↑				5.51		1152
CG-01		Staff Gauge	NA			DRY		1122
SG-02						0.06 to 1.38		frozen, 1500
SG-03						0.06		frozen, 1458
SG-04						DRY		1420
SG-05						DRY, 1.20	1358	SG dry, transducer w/ 1.20
SG-06						DRY		1300
SG-07		↑				1.14		1233, frozen
STW-1		Stilling Well	2"			DRY	1351	
STW-2						Broken	—	frozen
STW-3		↑				13.84	1040	frozen

Appendix B

Data Validation Reports

Data Verification & Validation Report

Grand Haven-Harbor Island

Sampling Event (dates and purpose): Quarterly Assessment Monitoring

Data Package Number: 25B0046, 25B1012

Lab Report Date: 2/14/2025, 3/7/2025, 3/19/2025,

Data Validator: Andrew Byks

Data Validation Completion Date: 4/7/2025

General Overall Assessment:

- ☐ Data are usable without qualification.
☒ Data are usable with qualification (as noted below).
☐ Some or all data are unusable (as noted below).

Wells planned for sampling:

Unit 3A/B	Unit 1/2	Well Designation	Well ID	Planned for Sampling
✓	✓	Nature & Extent	MW-01R	X
✓		Point of Compliance	MW-02	X
✓		Point of Compliance	MW-03	X
✓		Point of Compliance	MW-04	X
	✓	Point of Compliance	MW-06	X
✓	✓	Nature & Extent	MW-07	X
	✓	Point of Compliance	MW-08	X
✓	✓	Nature & Extent	MW-09	X
✓	✓	Nature & Extent	MW-10	X
✓		Point of Compliance	MW-11	X
✓		Point of Compliance	MW-12	X
	✓	Nature & Extent	MW-16	X
	✓	Nature & Extent	MW-17	X
	✓	Point of Compliance	MW-18	X
	✓	Point of Compliance	MW-19	X
	✓	Point of Compliance	MW-20	X
✓	✓	Background	MW-27	X
	✓	Nature & Extent	MW-28	X
	✓	Point of Compliance	MW-30	X
	✓	Point of Compliance	MW-31	X
✓	✓	Nature & Extent	MW-32	X
✓	✓	Background	MW-33	X
✓	✓	Background	MW-34	X
	✓	Nature & Extent	MW-36	X
	✓	Nature & Extent	MW-37	X
✓		Nature & Extent	MW-38	X
✓	✓	Surface Water	SG-02	X
✓	✓	Surface Water	SG-04R	X
✓	✓	Surface Water	SG-05	X
✓	✓	Surface Water	SG-07	X

Data Summary

Sample ID	Matrix	Lab ID	Date Collected	App III Metals	App IV Metals	Part 115 Metals	Alkalinity/ Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-37	GW	25B0046-1	2/3/2025	X	X	X	X	X	X	
MW-17	GW	25B0046-2	2/3/2025	X	X	X	X	X	X	
MW-33	GW	25B0046-3	2/3/2025	X	X	X	X	X	X	
MWT-33	GW	25B0046-4	2/3/2025	X	X	X	X	X	X	
MW-01R	GW	25B1012-1	2/25/2025	X	X	X	X	X	X	
MW-02	GW	25B1012-2	2/25/2025	X	X	X	X	X	X	
MW-09	GW	25B1012-3	2/25/2025	X	X	X	X	X	X	
MW-11	GW	25B1012-4	2/25/2025	X	X	X	X	X	X	
MW-16	GW	25B1012-5	2/25/2025	X	X	X	X	X	X	
MW-30	GW	25B1012-6	2/25/2025	X	X	X	X	X	X	
MW-31	GW	25B1012-7	2/25/2025	X	X	X	X	X	X	
MW-32	GW	25B1012-8	2/25/2025	X	X	X	X	X	X	
MWT-32	GW	25B1012-9	2/25/2025	X	X	X	X	X	X	
MW-03	GW	25B1012-10	2/26/2025	X	X	X	X	X	X	
MW-04	GW	25B1012-11	2/26/2025	X	X	X	X	X	X	
MW-06	GW	25B1012-12	2/26/2025	X	X	X	X	X	X	
MW-07	GW	25B1012-13	2/26/2025	X	X	X	X	X	X	
MW-08	GW	25B1012-14	2/26/2025	X	X	X	X	X	X	
MW-10	GW	25B1012-15	2/26/2025	X	X	X	X	X	X	
MW-12	GW	25B1012-16	2/26/2025	X	X	X	X	X	X	
MW-18	GW	25B1012-17	2/26/2025	X	X	X	X	X	X	
MW-19	GW	25B1012-18	2/26/2025	X	X	X	X	X	X	
MW-20	GW	25B1012-19	2/26/2025	X	X	X	X	X		
MW-34	GW	25B1012-20	2/26/2025	X	X	X	X	X		
MW-36	GW	25B1012-21	2/26/2025	X	X	X	X	X		
MW-38	GW	25B1012-22	2/26/2025	X	X	X	X	X		
MW-27	GW	25B1012-23	2/27/2025	X	X	X	X	X		
MW-28	GW	25B1012-24	2/27/2025	X	X	X	X	X		

Other analytes requested for analysis: Na, Mg, K, HCO₃, CO₃, hardness

Any planned sampling or analysis NOT completed? If yes, explain: Samples for Rad-226 and Rad-228 were collected for wells MW-20, MW-27, MW-28, MW-34, MW-36, and MW-38 in the field and delivered to Trace Analytical Laboratories. Samples were shipped via FedEx to the subcontracted Eurofins South Bend laboratory and were misplaced during transit. Additional sample volume was not available, and analysis was not able to be completed for Rad-226 and Rad-228 for the samples.

Surface water samples from staff gauge locations SG-02, SG-04R, SG-05, and SG-07 were not able to be collected due to the surface water sampling points being frozen.

Data Verification & Validation Checklist

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Field Data							
Sample Collection Field Forms	X		Purging performed as required in the Groundwater Monitoring Plan	X			
Field Calibration Records	X		Field instruments calibrated daily according to manufacturer specifications	X			
Chain of Custody	X		Accurately reflect samples, collection dates/times, analyses, bottles, etc.	X			
Field decontamination documentation	N/A		Record of decontamination for non-dedicated sampling equipment			X	
Drilling logs	X		N/A	-	-	-	
Well construction logs	X		N/A	-	-	-	
Well development field forms	X		N/A	-	-	-	
Analytical Data Package							
Cover Sheet	X		N/A	-	-	-	
Case Narrative	X		Summarizes sample receipt and any exceptions to QC acceptance criteria	X			
Internal Laboratory Chain of Custody forms	X		Analyses as requested; accurate transcription of field COC		X		6 samples lost by FedEx for Rad-226 and Rad-228
Sample Chronology and Consistency	X		Accurate representation of dates, times of receipt, preparation, and analysis	X			
Communication Records with Lab	X		E-mail records saved with final report	X			
EDD Format Consistency	X		EDD format and content as requested	X			
Sample Identification, Results Nomenclature, and Data Qualifier Consistency	X		All included in final report	X			
Method Detection Limit Consistency	X		MDLs consistent between samples		X		Dilution varies between samples
Instrument Calibration Records	X		Present and no nonconformance noted	X			
Laboratory Report Complete	X		Includes QC component	X			
Holding Times	X		Analyses performed within allowed holding time		X		pH required qualification in 28 samples

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)	
	Yes	No		Yes	No	N/A		
Method	X		Method as requested	X				
Reporting Limits	X		RLs as requested		X		RLs for the following were not met As – 1 sample (MDL > result > RL) Be – 1 sample (ND < MDL) B – 3 samples (results > RL) Cd – 1 sample (ND < MDL) Ca – 25 samples (results > RL) Chloride – 1 sample (result > RL) Li – 2 samples (results > RL) Mg – 6 samples (results > RL) Mo – 1 sample (result > RL) Ni – 1 sample (result > RL) Na – 10 samples (results > RL) SO4 – 8 samples (results > RL) TDS – 5 samples (results > RL) V – 1 sample (ND < MDL) Zn – 1 sample (result > RL)	
			MDLs<RLs	X				
			MDLs<GPS	X				
QC Validation								
Evaluate Accuracy								
Matrix Spike (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X				
Laboratory Control Sample (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X				
Evaluate Precision								
Matrix Spike Duplicate (RPD)	X		See “Minimum QC Procedures for Project Parameters” table	X				
Field Duplicate (RPD)	X		RPD ≤ 20%		X		See Below.	
Evaluate Representativeness								
Equipment Blanks (if applicable)	N/A		Non-detect (<RL)			X		
QC Verification								
Verify Instrument Calibration & Analytical Process								
Initial Calibration Verification	X		Laboratory-determined	-	-	-		
Continuing Calibration Verification	X		Laboratory-determined	-	-	-		
Initial Calibration Blank	X		Laboratory-determined	-	-	-		
Continuing Calibration Blank	X		Laboratory-determined	-	-	-		

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Serial Dilutions	X		Laboratory-determined	-	-	-	
Post-Digestion Spikes	X		Laboratory-determined	-	-	-	
Internal Standards	X		Laboratory-determined	-	-	-	
Laboratory Duplicate (RPD)	X		Laboratory-determined	-	-	-	
Method Blanks	X		Laboratory-determined	-	-	-	
Evaluate Completeness (# usable measurements/ # unusable measurements)							
Completeness	X		100%	X			

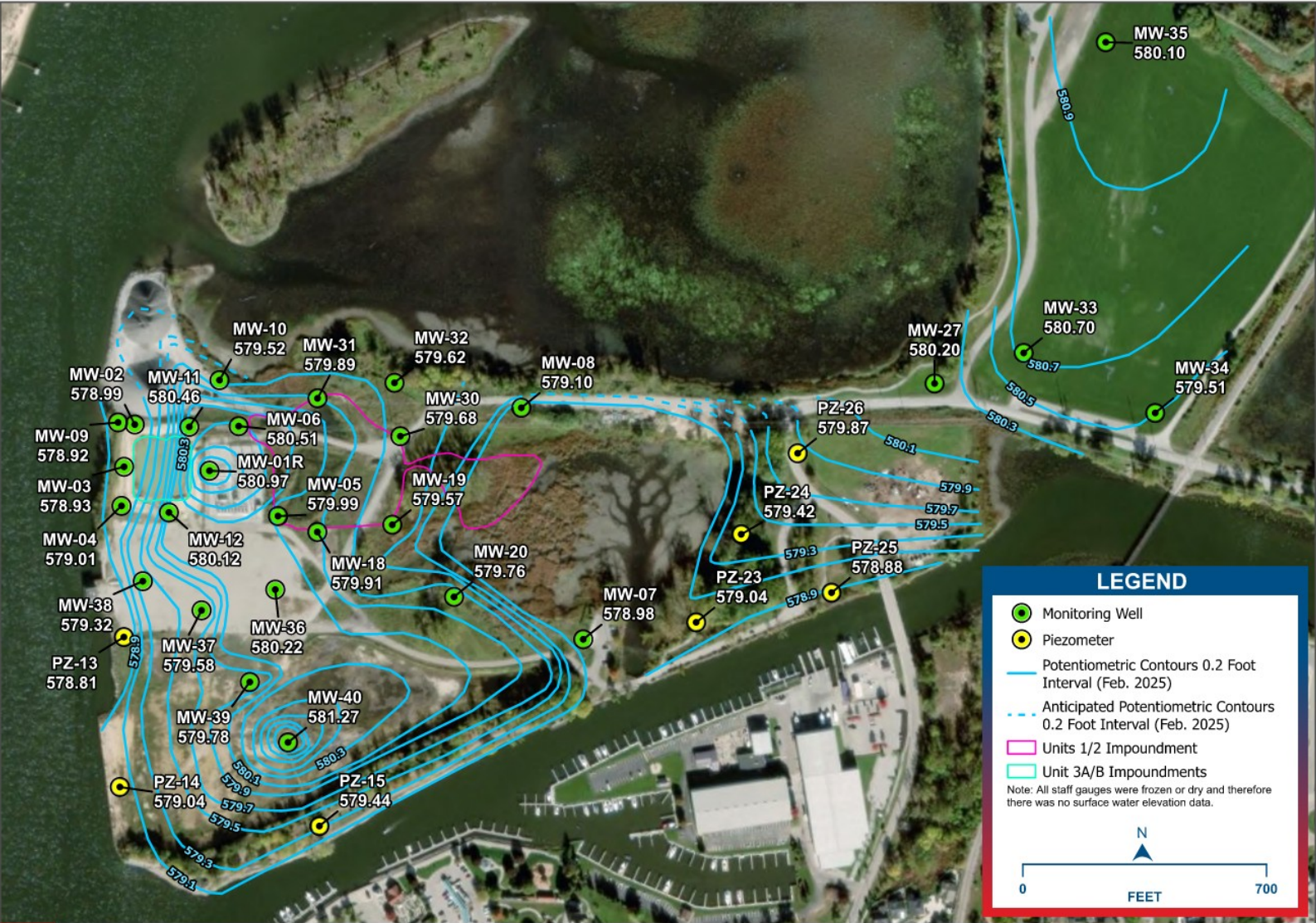
Comments:

pH in 28 samples required qualification as estimated (J) due to analysis outside the EPA-established 24-hour hold time.

Cadmium was detected in field duplicate MWT-33, but was not detected in parent sample MW-33. Cadmium in parent sample MW-33 required qualification as estimated but not detected (UJ) and in field duplicate MWT-33 as estimated with high bias (J+).

Appendix C

Potentiometric Surface Map



Appendix D

Analytical Data Tables

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-01R														
			Background Monitoring								AM/DM Round						
			11/29/2022	1/3/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/18/2024	10/16/2024	2/25/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B & 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	2.39	3.06	2.731	2.595	3	3.1	3.23	3.22	3.13	2.51	2.87	3.13	2.89	2.97	
Dissolved Oxygen	mg/L	N	0.08	0.05	0.07	0.28	0.11	0.03	0.01	0.01	0.03	0.22	1.35	0.01	0.01	0.02	
Oxidation Reduction Potential	mV	N	42.3	3.6	-155.6	-185.5	-202.3	-210.1	-163.8	-165.1	-126.2	-57.3	-197.9	-316.1	7.7	-80.5	
pH	su	N	7.74	6.02	7.75	7.76	7.75	7.8	7.81	7.68	7.71	7.52	7.58	7.73	7.72	7.75	
Temperature	deg c	N	12.5	9	6.9	5.9	7.2	10.7	13.5	17.2	16.1	6.1	7.5	16.3	17	7.4	
Turbidity	NTU	N	0.02	0.26	0.17	0.02	0.02	0.02	0.02	1.33	0.95	1.79	0.02	0.02	1.36	0.02	
Appendix III																	
Boron	mg/L	T	100	110	73	70	78	110	150 J+	140 D	160 D	38 D	64 D	150 D	130 D	120 D	
Calcium	mg/L	T	240	200	290	310	280	240	210 D	160 D	130 D	400 D	350 D	160 D	160 D	190 D	
Chloride	mg/L	T	150	160	52	120	130	150	170 D	180 D	210 D	49 D	67 D	170 D	150 D	120 D	
Fluoride	mg/L	T	14	14	9.5	8.1	8.8	10	15 D	14 D	14 D	4.8 D	6.7 D	15 D	16 D	14 D	
Sulfate (as SO4)	mg/L	T	590	400	350	780	780	540	290 D	110 D	8.8 D	980 D	810 D	100 D	130 D	310 D	
Total Dissolved Solids	mg/L	T	2400 J-	2300	2200	2100	2400	2400	2400 D	2400 D	2600 D	2200 D	2300	2500 D	2300 D	2400 D	
Appendix IV																	
Antimony	mg/L	T	0.00033	0.00023 J	< 0.00025 U	0.00034	0.0012	< 0.00050 U	0.00071 JD	0.00025	0.00022 J	< 0.00050 UD	0.00017 J	0.00018 J	0.00019 J	0.00021 J	
Arsenic	mg/L	T	0.0020	0.0015	0.0013	0.0013	0.00077	0.00073	0.0019 J+	0.0017	0.0013	0.0041	0.0013	0.0014	0.0015	0.0013	
Barium	mg/L	T	0.30	0.30	0.25	0.22	0.21	0.29	0.29 D	0.38	0.56	0.54 D	0.20	0.33	0.42	0.38	
Beryllium	mg/L	T	0.00021 J	0.00032	0.00020 J	0.00020 J	0.00012 J	0.00020 J	0.00036 J+	0.00035	0.00026	0.00015 J	< 0.000052 U	0.00013 J	< 0.000052 U	0.00012 J	
Cadmium	mg/L	T	0.00011 J	0.000062 J	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	0.00034 J+	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.0013	0.0024	0.0016	0.0016	0.0013	0.0019	0.0043	0.0037	0.0022	0.022	0.0013	0.0033	0.0021	0.0019	
Cobalt	mg/L	T	0.0011	0.0012	0.0011	0.0023	0.0017	0.00081	0.0045 J+	0.0016	0.001	0.0040	0.00064	0.0011	0.00095	0.0011	
Fluoride	mg/L	T	14	14	9.5	8.1	8.8	10	15 D	14 D	14 D	4.8 D	6.7 D	15 D	16 D	14 D	
Lead	mg/L	T	0.0014	0.00082	< 0.0011 U	0.00044 J	< 0.0011 U	0.00080 J	0.0053 J+	0.0010 JD	0.00074	0.0017 JD	0.00035 J	0.00062 JD	0.00069 JD	0.00087 JD	
Lithium	mg/L	T	2.2	2.8	1.6	1.7	1.5	2.3	3.2 D	3.3	3.4 D	0.77 D	1.5	2.9 D	2.6 D	2.7 D	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0011 J	0.00062 J	0.00076 J	0.0020	< 0.0031 U	0.00033 J	0.00077 J+	0.00082 J	0.00074 J	0.0056	0.0016	0.00037 J	0.00034 J	0.00068 J	
Radium 226 and 228	pCi/L	T	< 0.656 UJ	< 0.828 U	1.06	1.28	< 0.737 U	< 1.1 U	0.601	1.26	< 0.674 U	1.09	< 0.682 U	< 1.23 U	1.48	--	
Radium-226	pCi/L	T	< 0.176 UJ	< 0.125 U	< 0.139 U	< 0.212 U	< 0.233 U	< 0.322 U	< 0.164 U	0.152	< 0.182 U	< 0.137 U	< 0.21 U	0.218	< 0.268 U	--	
Radium-228	pCi/L	T	< 0.656 UJ	< 0.828 U	0.982	1.23	< 0.737 U	< 1.1 UJ	< 0.534 U	1.11	< 0.674 U	1.05	< 0.682 U	< 1.23 UG	1.37 G	--	
Selenium	mg/L	T	0.00060	0.00059	0.00058	0.00097	0.00056	0.00030 J	0.00076 J+	0.00066	0.00073	0.0018	0.00050	0.00079	0.00073	0.00064	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.00038 UD	< 0.00038 UD	
Total Suspended Solids	mg/L	T	3.0 J	2.0 J	5.0	2.0 J	2.0 J	< 4.0 U	2.0 J	3.0 J	< 4 UD	< 4.0 U	< 4.0 U	< 4.0 U	5.0	< 4.0 U	
Michigan CCR Part 115																	
Copper	mg/L	T	0.00027	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0013 B	0.00045	0.00029	0.0010	0.00029	0.00029	0.00030	0.00042	
Iron	mg/L	T	0.75	1.1	0.55	0.50	0.59	0.79	0.48	0.16	0.22	0.85 D	1.0	0.088	0.093	0.13	
Nickel	mg/L	T	0.0015	0.0025	0.0016	0.0026	0.0018	0.0013	0.0053	0.0027	0.0021	0.022	0.0012	0.0020	0.0019	0.0018	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	0.00069 J	0.00067 J	< 0.00062 U	< 0.00062 U	0.0013	0.0016	0.0046	0.0035	0.0018	0.0018	0.0014	0.0041	0.0020	0.0019	
Zinc	mg/L	T	0.014	0.0012	0.0012	0.0018	0.013	< 0.0012 U	0.0085	0.0012	0.0013	0.0016	< 0.0012 U	< 0.0012 U	0.023	0.033	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	1100	1200	870	830	920	1100	1300 D	1400	1700 D	560 D	820 D	1500	1400	1300	
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 UD	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	110	92	110	110	120	110	100 D	96 D	100 D	110 D	120 D	100 D	99 D	120 D	
Potassium	mg/L	T	69	66	50	43	60 J	65	89 D	90 D	98 D	34 D	50	86 D	86 D	85	
Sodium	mg/L	T	330	370	250	240	280	380	430 D	430 D	500 D	140 D	220 D	430 D	400 D	410 D	
Total Alkalinity	mg/L	T	1100	1200	870	830	920	1100	1300 D	1400	1700 D	560 D	820 D	1500	1400	1300	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-02														
			Background Monitoring								AM/DM Round						
			11/28/2022	1/4/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/17/2024	10/15/2024	2/25/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
			Unit 3A/B														
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	3.36	4.1	3.07	2.616	3.66	3.524	4.17	4.07	4.21	3.4	3.89	4.42	4.2	5.22	
Dissolved Oxygen	mg/L	N	0.28	0.49	0.2	0.41	0.08	0.06	0.07	0.1	0.03	0.26	0.15	0.45	0.85	0.99	
Oxidation Reduction Potential	mV	N	89.4	-215.7	-185.2	-169.9	-135.7	-138.9	-137.4	-133.8	-166.8	-146.1	-140.3	-135.6	-158.6	104.7	
pH	su	N	7.11	7.06	7.33	7.35	7.13	7.45	7.29	7.21	7.11	7.25	7.26	7.13	7.15	7.11	
Temperature	deg c	N	12.8	12	11.2	9.6	10.2	11.7	12.1	14	15	10.3	11.4	15	13.4	10.7	
Turbidity	NTU	N	0.02	0.02	0.02	0.49	3.66	5.05	6.89	3.3	8.78	5.11	9.03	0.02	9.7	4.15	
Appendix III																	
Boron	mg/L	T	88	86	100	98	73	95	110 J+	99 D	110 D	100 D	110 D	110 D	110 D	170 D	
Calcium	mg/L	T	210	180	210	240	190	210	210 D	180 D	190 D	220 D	210 D	200 D	190 D	180 D	
Chloride	mg/L	T	150	140	67	140	150	140	140 D	130 D	140 D	140 D	140 D	160 D	150 D	150 D	
Fluoride	mg/L	T	9.2	10	4.5	9.4	8.7	9.2	10 D	9.7 D	9.7 D	9.5 D	10 D	10 D	11 D	16 D	
Sulfate (as SO4)	mg/L	T	0.86 J	2.2 J	< 0.41 U	1.1 J	< 0.41 U	< 0.41 U	< 0.41 UD	0.93 JD	< 0.41 UD	< 0.41 UD	< 5.5 UD	< 2.2 UD	1.8 JD	< 2.2 UD	
Total Dissolved Solids	mg/L	T	1700	1800	1900	1700	1700	1800	2100 J	1900 D	1600 D	1800 D	2000	2100 D	2000 D	2600 D	
Appendix IV																	
Antimony	mg/L	T	0.00015 J	0.00016 J	< 0.00025 U	0.00019 J	0.00063 J	< 0.00050 U	0.00024 J	0.00018 J	0.00029	< 0.00010 U	0.00024 J	0.00015 J	0.00019 J	0.00027	
Arsenic	mg/L	T	0.0082	0.0076	0.0086	0.0078	0.0083	0.012	0.0096 J+	0.0086	0.0074	0.00044 J	0.0075	0.0061	0.0066	0.0095	
Barium	mg/L	T	0.51	0.53	0.55	0.51	0.38	0.48	0.47	0.45	0.42	0.73	0.46	0.33	0.32	0.35	
Beryllium	mg/L	T	0.00028	0.00034	0.00042	0.00029	0.00015 J	0.00021 J	0.00032 J+	0.00043	0.00052	< 0.000052 U	0.00012 J	0.00019 J	0.00018 J	0.00022 J	
Cadmium	mg/L	T	< 0.000032 U	0.000046 J	< 0.00016 U	0.000041 J	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00049	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000078 J	
Chromium, Total	mg/L	T	0.022	0.054	0.057	0.046	0.019	0.030	0.068	0.054	0.032	0.00038	0.039	0.047	0.033	0.063	
Cobalt	mg/L	T	0.0038	0.0060	0.0080	0.0066	0.0031	0.0039	0.0089 J+	0.0076	0.0063	0.00024 J	0.0061	0.0063	0.0055	0.0097	
Fluoride	mg/L	T	9.2	10	4.5	9.4	8.7	9.2	10 D	9.7 D	9.7 D	9.5 D	10 D	10 D	11 D	16 D	
Lead	mg/L	T	0.0010	0.0024	0.0030	0.0027	0.0018 J	0.0041	0.0039 J+	0.0017	0.002	< 0.00010 U	0.0056	0.0023 JD	0.0020 JD	0.0060 D	
Lithium	mg/L	T	1.2	1.5	1.5	1.6	0.87	1.2	1.7	1.4	1.2 D	1.4 D	1.5	1.3 D	1.3 D	2.3 D	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0052	0.0062	0.011	0.011	0.0088	0.0064	0.0062 J+	0.0052	0.0051	0.0038	0.0052	0.0045	0.0048	0.016	
Radium 226 and 228	pCi/L	T	< 2.18 U	< 2.8 U	3.35	1.56	< 0.686 U	1.67	1.67	2.45	1.16	1.95	2.24	< 1.21 U	1.33	--	
Radium-226	pCi/L	T	< 0.547 U	0.781	0.642	0.398	< 0.302 U	0.58	0.714	0.743	< 0.354 U	1.07	< 0.432 U	0.488	0.772	--	
Radium-228	pCi/L	T	< 2.18 UJ	< 2.8 UG	< 3.21 UG	< 1.24 UG	< 0.686 U	< 1.2 UJ	0.957	1.71 G	< 0.897 U	0.882	1.83 G	< 1.21 UG	< 1.1 UG	--	
Selenium	mg/L	T	0.0010	0.0012	0.0012	0.00095	0.00050	0.0010	0.0014 J+	0.0012	0.0018	0.00056	0.0014	0.0014	0.0014	0.0023	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00062	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.00038 UD	< 0.00038 UD	
Total Suspended Solids	mg/L	T	67	58	58	56	100	90	20 D	16 D	6.1 D	59	40	53	6.0	8.0	
Michigan CCR Part 115																	
Copper	mg/L	T	0.00081	0.0018	0.0025	0.0020	0.0011	0.0014	0.0026 B	0.0018	0.0025	0.00023 J	0.0028	0.0020	0.0015	0.0044	
Iron	mg/L	T	23	22	24	30	27	27	24	20	18 D	31 D	25	22 D	19 D	21	
Nickel	mg/L	T	0.015	0.023	0.042	0.035	0.017	0.014	0.025	0.022	0.018	0.00093 J	0.025	0.018	0.018	0.053	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	0.0014	0.0036	0.0035	0.0032	0.0013	0.0026	0.0067	0.0049	0.0044	< 0.00062 U	0.0062	0.0057	0.0035	0.0049	
Zinc	mg/L	T	0.023	0.0030	0.0033	0.0022	0.025	0.0019	0.0027	0.0041	0.0036	0.0020	0.0033	0.0024	0.020	0.036	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	1900	2000	1900	1800	1800	1900	460	2100	2300	1800 D	2000	2200	2200	2700	
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	63	59	70	78	68	71	62	58 D	57 D	77 D	68	63 D	60 D	56	
Potassium	mg/L	T	50	44	53	45	41	44	56 J	46 D	47 D	50 D	53	48 D	48 D	70	
Sodium	mg/L	T	250	250	260	260	220	280	320 D	310 D	310 D	280 D	300 D	320 D	310 D	470 D	
Total Alkalinity	mg/L	T	1900	2000	1900	1800	1800	1900	460	2100	2300	1800 D	2000	2200	2200	2700	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-03														
			Background Monitoring								AM/DM Round						
			11/28/2022	1/4/2023	2/7/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/14/2024	4/7/2024	7/18/2024	10/15/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	0.344	3.52	3.43	2.459	3.15	3.08	3.19	3.19	3.03	2.98	2.81	2.87	2.69	2.7	
Dissolved Oxygen	mg/L	N	0.16	0.26	0.2	0.21	0.03	0.01	0.05	0.09	0.06	0.2	0.02	0.02	0.31	0.09	
Oxidation Reduction Potential	mV	N	-180	-139.7	-212.9	-184.2	-92.8	-194.3	-129.6	-110.7	-116.1	-194.1	-220.8	-30.3	-106.1	-49.8	
pH	su	N	7.31	7.32	7.2	7.45	7.26	7.59	7.44	7.31	7.28	7.44	7.46	7.3	7.38	7.33	
Temperature	deg c	N	13.3	11.4	9.2	7.3	9.3	11.8	12.5	14.9	14.9	9.6	10.1	15	14	9.3	
Turbidity	NTU	N	0.02	0.68	2.4	0.02	1.4	0.02	0.02	0.21	0.26	2.12	0.02	0.02	0.31	0.02	
Appendix III																	
Boron	mg/L	T	4.4	3.3	4.2	4.3	3.9	4.1	4.3 J+	4.1	4.3 D	4.5 D	3.9	3.9	4.4 D	3.7	
Calcium	mg/L	T	390	290	400	410	360	400	430 D	350 D	380 D	360 D	350 D	340 D	330 D	320 D	
Chloride	mg/L	T	300	190	240	190	150	140	160 D	170 D	180 D	140 D	99 D	120 D	120 D	110 D	
Fluoride	mg/L	T	0.65	1.6	0.62	0.52	0.60	0.54	0.54 D	0.61 D	0.6 D	0.61 D	0.60 D	0.62 D	0.62 D	0.65 D	
Sulfate (as SO4)	mg/L	T	42	460	230	550	760	690	510 D	480 D	380 D	310 D	360 D	310 D	170 D	34 D	
Total Dissolved Solids	mg/L	T	2200 J-	1700	2300	2300	2300	2300	2300 D	2300 D	2200 D	2000 D	1900 D	1900 D	1800 D	1700 D	
Appendix IV																	
Antimony	mg/L	T	0.000087 J	0.000092 J	< 0.00025 U	0.00011 J	0.00045 J	< 0.00050 U	< 0.00050 UD	< 0.00010 U	< 0.0001 U	< 0.00050 UD	0.00016 J	< 0.00010 U	< 0.00010 U	0.00013 J	
Arsenic	mg/L	T	0.00084	0.0011	0.0012 J	0.0011	0.00050 J	0.00049 J	0.00091 J+	0.00076	0.0011	0.00097	0.0014	0.00077	0.00087	0.0011	
Barium	mg/L	T	0.43	0.13	0.50	0.30	0.34	0.43	0.38 D	0.38	0.41	0.42 D	0.36	0.27	0.27	0.33	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.00026 U	0.000053 J	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	0.00015 J	0.000057 J	0.00018 J	0.000054 J	< 0.000052 UJ	< 0.000052 U	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00011 J	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.0046	0.0061	0.0049	0.0073	0.0033	0.0037	0.0060	0.0053	0.003	0.0037	0.0052	0.0045	0.0034 J-	0.0034	
Cobalt	mg/L	T	0.00088	0.00044 J	0.00081 J	0.00097	0.00044 J	0.00050 J	0.0012 J+	0.0011	0.0013	0.00037 J	0.0013	0.00059	0.00061 J-	0.00059	
Fluoride	mg/L	T	0.65	1.6	0.62	0.52	0.60	0.54	0.54 D	0.61 D	0.6 D	0.61 D	0.60 D	0.62 D	0.62 D	0.65 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00050 UD	0.00022 J	< 0.00050 UD	< 0.00010 U	< 0.00050 UD	< 0.00050 UD	< 0.00010 U	
Lithium	mg/L	T	0.044	0.065	0.039	0.045	0.037	0.035	0.050	0.041	0.035	0.033 D	0.029	0.031	0.035 D	0.031	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00024	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	< 0.00062 U	0.00072 J	< 0.0031 U	< 0.00062 U	< 0.0031 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	0.00085 J	< 0.00025 U	0.0011 J	< 0.00025 U	0.00039 J	< 0.00025 U	
Radium 226 and 228	pCi/L	T	1.92	< 1.32 U	0.75	1.76	0.81	1.38	1.26	0.996	1.34	1.48	1.5	0.786	1.7 J-	--	
Radium-226	pCi/L	T	0.583	0.526	0.242	< 0.217 U	0.268	0.574	< 0.209 U	0.417	< 0.312 U	0.466	< 0.288 U	0.22	0.348	--	
Radium-228	pCi/L	T	1.34	< 1.32 UG	< 0.67 U	1.55	< 0.767 U	< 1.15 UJ	1.18	< 0.763 U	1.08	1.02	1.42 G	< 0.609 U	1.36 J-	--	
Selenium	mg/L	T	0.00042 J	< 0.00022 U	< 0.0011 U	0.00040 J	< 0.00022 U	0.00017 J	0.00042 J+	0.00034 J	0.00053	0.00062	0.00049 J	0.00038 J	0.00051	0.00040 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 UD	0.00018 J	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.00038 UD	< 0.000075 U	
Total Suspended Solids	mg/L	T	4.0	15	4.0	1.0 J	< 4.0 U	< 4.0 U	< 4.0 U	3.0 JD	< 4 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	
Michigan CCR Part 115																	
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	< 0.0010 U	< 0.00020 U	< 0.00020 U	0.00025	0.00030 B	0.00024 J	0.00091	0.00025	0.0010	0.00030	0.00086 J+	< 0.00020 U	
Iron	mg/L	T	3.7	5.9	2.5	1.6	2.0	0.78	0.31	0.28	0.43	1.4 D	0.48	0.27	0.12	0.63	
Nickel	mg/L	T	0.0016	0.015	< 0.0032 U	0.0018	0.00085 J	0.00087 J	0.0016	0.0015	0.0017	0.00094 J	0.0022	0.0011 J	0.0012 J-	0.0012	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0012	< 0.00062 U	0.0022	0.0018	0.0015 J-	0.0012	
Zinc	mg/L	T	0.019	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.018	< 0.0012 U	0.0019	< 0.0012 U	0.002	< 0.0012 U	0.0013	< 0.0012 U	0.013	< 0.0012 U	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	1800	690	1600	1200	1100	1100	1300 D	1300	1400 D	1300	1200	1300	1400	1500	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 UD	< 0.16 U	< 0.31 UD	70	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	210	91	220	220	210	220	210 D	200 D	200 D	210 D	200 D	190 D	180 D	190 D	
Potassium	mg/L	T	20	18	20	15	20	17	20	18 D	18 D	19 D	16	17	17 D	18	
Sodium	mg/L	T	130	74	120	110	100	110	100 D	110 D	100 D	110 D	90	89 D	89 D	88 D	
Total Alkalinity	mg/L	T	1800	690	1600	1200	1100	1100	1300 D	1300	1400 D	1300	1200	1300	1400	1500	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-04														
			Background Monitoring								AM/DM Round						
			11/28/2022	1/4/2023	2/7/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/14/2024	4/7/2024	7/18/2024	10/15/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	0.237	2.47	2.56	2.044	2.81	2.82	2.81	2.74	2.52	2.55	2.78	2.79	2.44	2.39	
Dissolved Oxygen	mg/L	N	0.15	0.1	0.07	0.79	0.15	0.06	0.05	0.16	0.14	0.3	0.06	0.05	0.07	0.09	
Oxidation Reduction Potential	mV	N	-137.4	-113.2	-175.9	-126.6	43.2	-91.9	-113.3	-130.1	-133.3	-96.7	-170.1	-82.9	-143.4	-40.9	
pH	su	N	7.34	7.39	7.23	7.45	7.35	7.66	7.43	7.34	7.26	7.4	7.43	7.25	7.26	7.22	
Temperature	deg c	N	13.1	10.5	8.7	6.5	7.2	10.5	13.1	16.4	16.1	8	8.8	16.1	16.7	8.4	
Turbidity	NTU	N	1.95	0.02	0.02	0.02	0.02	0.02	0.28	2.98	1.42	1.83	0.38	0.02	0.21	0.02	
Appendix III																	
Boron	mg/L	T	4.0	3.9	3.8	3.8	3.5	4.3	4.1 J+	4.0	4.7 DJ	4.1 D	4.2	4.4	4.7 J-	3.7	
Calcium	mg/L	T	310	360	350	390	340	400	410 D	330 D	360 D	350 D	430 D	380 D	340 J-	360 D	
Chloride	mg/L	T	180	300	200	220	220	200	190 D	160 D	150 D	130 D	120 D	120 D	96 D	90 D	
Fluoride	mg/L	T	1.2	0.76	1.3	1.4	1.3	1.3	1.2 D	1.4 D	1.9 D	1.4 D	1.3 D	1.4 D	1.5 D	1.1 D	
Sulfate (as SO4)	mg/L	T	410	1.8 J	530	580	700	690	610 D	610 D	630 D	640 D	810 D	810 D	590 D	660 D	
Total Dissolved Solids	mg/L	T	1700	2100	1700	1800	1900	2100	2000 D	1900 D	1800 D	1800 D	2100 D	2100 D	1700 D	1800 D	
Appendix IV																	
Antimony	mg/L	T	0.000071 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00041 J	< 0.00050 U	< 0.00050 UD	0.00012 J+	< 0.0001 U	< 0.00050 UD	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00014 J	
Arsenic	mg/L	T	0.0012	0.00078	0.0012	0.0012	0.00060	0.00047 J	0.00092 J+	0.00088	0.001	0.00058	0.0012	0.00086	0.00088	0.0028	
Barium	mg/L	T	0.11	0.46	0.13	0.12	0.10	0.12	0.15 D	0.12	0.12	0.11 D	0.12	0.084	0.085	0.16	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000066 J	0.000054 J	< 0.000052 U	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000016 U	< 0.000032 U	< 0.000016 U	< 0.000038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.0027	0.0060	0.0047	0.0049	0.0026	0.0031	0.0046	0.0044	0.0027	0.0026	0.0041	0.0047	0.0051	0.0028	
Cobalt	mg/L	T	0.00035 J	0.00093	0.00062	0.00065	0.00031 J	0.00036 J	0.00074 J+	0.00062	0.00045 J	0.00018 J	0.00034 J	0.00024 J	0.00032 J	0.00035 J	
Fluoride	mg/L	T	1.2	0.76	1.3	1.4	1.3	1.3	1.2 D	1.4 D	1.9 D	1.4 D	1.3 D	1.4 D	1.5 D	1.1 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 UD	< 0.00010 U	< 0.00050 UD	< 0.00050 UJ	< 0.00010 U	
Lithium	mg/L	T	0.067	0.047	0.061	0.074	0.054	0.061	0.074	0.074	0.066 D	0.048 D	0.062	0.068	0.074 D	0.031	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0013	< 0.00062 U	0.00074 J	0.00086 J	< 0.0031 U	0.00041 J	0.00044 J+	0.0012	0.0015	0.00037 J	0.00097 J	0.0014	0.0015	0.0023	
Radium 226 and 228	pCi/L	T	1.43	1.08	1.55	1.23	< 0.752 U	1.49	1.2	1.29	1.2	< 0.868 U	1.11 J-	< 0.691 U	0.796	--	
Radium-226	pCi/L	T	< 0.206 U	0.159	0.175	< 0.198 U	< 0.189 U	< 0.214 U	0.232	0.152 J-	0.275	< 0.155 U	0.176 J-	0.243	< 0.235 U	--	
Radium-228	pCi/L	T	1.28	0.916	1.38	1.16	< 0.752 U	1.33 J	0.963	1.14	0.924	< 0.868 U	0.936 J-	< 0.691 U	0.693	--	
Selenium	mg/L	T	< 0.00022 U	0.00041 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	0.00017 J+	0.00021 J+	0.00024 J	0.00043 J	0.00021 J	0.00023 J	0.00031 J	0.00019 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.00038 UD	< 0.000075 U	
Total Suspended Solids	mg/L	T	10	8.0	11	10	11	12	8.1 D	< 4.0 UJ	8	< 4.0 U	15	5.0	4.0	8.0	
Michigan CCR Part 115																	
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	0.00032	< 0.00020 U	< 0.00020 U	< 0.00020 U	
Iron	mg/L	T	4.7	6.3	5.6	6.3	6.1	6.8	6.8	5.0	5.6 D	5.5 D	6.8	5.7	4.8 D	0.62	
Nickel	mg/L	T	0.012	0.0019	0.018	0.019	0.011	0.013	0.022	0.019	0.013	0.010	0.016	0.018	0.019	0.012	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00097 J	0.0011 J	0.0012	0.00075 J	
Zinc	mg/L	T	0.0044	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0059	< 0.0012 U	< 0.0012 U	< 0.0012 UJ	0.0015	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0051	< 0.0012 U	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	800	1800	720	690	720	740	730	750	780	680 D	700	710	740	760	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	96	200	110	120	120	140	130 D	120 D	120 D	120 D	140 D	130 D	110 D	120 D	
Potassium	mg/L	T	21	20	20	18	21	24	26	23 D	24 D	21 D	23	24	23 J-	18	
Sodium	mg/L	T	83	110	84	83	89	100	93 D	87 D	83 D	80 D	90	84	74 D	65 D	
Total Alkalinity	mg/L	T	800	1800	720	690	720	740	730	750	780	680 D	700	710	740	760	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:		MW-06														
		Background Monitoring								AM/DM Round						
		11/29/2022	1/3/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/26/2025	
		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
		Unit 1/2														
		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction														
Field Parameters																
Conductivity	mS/cm	N	1.78	2.13	2.16	1.973	2	2.05	2.04	2	2.02	1.63	1.92	1.91	1.9	1.93
Dissolved Oxygen	mg/L	N	0.1	0.6	0.07	0.14	0.35	0.08	0.24	0.38	0.24	0.15	0.07	0.01	0.05	0.28
Oxidation Reduction Potential	mV	N	38.1	-139	-193.2	-148.9	-173.5	-184.3	-182.7	-80.3	-176.8	145.9	-139.9	-234.1	-171.6	88.1
pH	su	N	7.33	7.26	6.42	7.21	7.28	7.36	7.27	7.17	7.26	7.2	7.18	7.39	7.29	7.49
Temperature	deg c	N	13.9	10.9	7.6	8.1	8.4	11.2	13.4	16.8	16.6	8.8	9.5	16	17.5	8.2
Turbidity	NTU	N	0.02	1.13	2.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.07	1.4	8.36
Appendix III																
Boron	mg/L	T	12	9.5	10	9.5	7.5	8.6	9.7 J+	9.9	11 D	7.3 D	6.4	8.3	11 D	9.8
Calcium	mg/L	T	220	230	250	310	250	270	290 D	230 D	240 D	280 D	310 D	250 D	220 D	200 D
Chloride	mg/L	T	160	120	110	82	57	73	71 D	76 D	79 D	18 D	13 D	31 D	57 D	59 D
Fluoride	mg/L	T	1.3	1.4	1.1	1.0	1.1	1.0	1.1 D	1.4 D	1.2 D	0.98 D	1.1 D	0.99 D	1.6 D	1.2 D
Sulfate (as SO4)	mg/L	T	16	9.6	20	7.3	9.4	20	16 D	0.98 JD	< 0.41 UD	1.5 JD	9.2 D	< 2.2 UD	2.9 JD	30 D
Total Dissolved Solids	mg/L	T	1300	1200	1300	1200	1200	1200	1300 D	1200 D	1100 D	1100 D	1200 D	1200 D	1100 D	1200 D
Appendix IV																
Antimony	mg/L	T	0.00075 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00036 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 UD	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	T	0.00080	0.00065	0.00058	0.00054 J	0.00047 J	0.00065	0.00062 J+	0.00082	0.001	0.00057	0.00068	0.00098	0.00082	0.00051 J
Barium	mg/L	T	1.5	1.5	1.6	1.4	0.99	1.3	1.4 D	1.4 D	1.5 D	1.4 D	1.3 D	1.7 D	1.6 D	1.3 D
Beryllium	mg/L	T	< 0.000054 U	< 0.000052 U	0.000052 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	T	0.0015	0.0021	0.0021	0.0030	0.0014	0.0012	0.0020	0.0023	0.0015	0.0012	0.0011	0.0014	0.0013	0.0011
Cobalt	mg/L	T	0.00048 J	0.00057	0.00067	0.00073	0.00050 J	0.00046 J	0.00080 J+	0.00067	0.00047 J	0.00035 J	0.00042 J	0.00037 J	0.00042 J	0.00039 J
Fluoride	mg/L	T	1.3	1.4	1.1	1.0	1.1	1.0	1.1 D	1.4 D	1.2 D	0.98 D	1.1 D	0.99 D	1.6 D	1.2 D
Lead	mg/L	T	0.00035 J	0.00025 J	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	0.00027 J+	< 0.00010 U	< 0.0001 U	< 0.00050 UD	< 0.00010 U	< 0.00010 U	0.00012 J	0.00018 J
Lithium	mg/L	T	0.23	0.22	0.20	0.23	0.15	0.15	0.19	0.22	0.19 D	0.13 D	0.11	0.14	0.17 D	0.17
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U
Molybdenum	mg/L	T	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	0.00026 J	0.00027 J+	< 0.00025 U	0.00025 J	< 0.00025 U	< 0.00025 U	0.00028 J	0.00043 J	0.00056 J
Radium 226 and 228	pCi/L	T	0.864	0.637	< 0.715 U	1.91	< 0.646 U	0.92	0.824	0.938	1.58	0.965	2.23	< 0.619 U	2.87	--
Radium-226	pCi/L	T	0.419	0.238	0.24	< 0.212 U	0.402	0.259	0.331	0.465	0.432	0.358	0.383	0.288	0.36	--
Radium-228	pCi/L	T	< 0.449 U	< 0.631 U	< 0.715 U	1.7	< 0.646 U	< 0.772 U	< 0.606 U	< 0.735 U	1.15	< 0.85 U	1.85	< 0.619 U	2.51	--
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00020 J	0.00022 J+	0.00019 J	0.0002 J	0.00047 J	0.00023 J	0.00020 J	0.00029 J	0.00022 J
Thallium	mg/L	T	< 0.000076 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	T	36	45	42	65	53	43	41 D	37 D	48	73	54 D	27	34	12 D
Michigan CCR Part 115																
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00028	< 0.00020 U	0.00038	0.00025	< 0.00020 U
Iron	mg/L	T	15	17	16	26	19	18	18	14	19 D	31 D	26	17	12 D	4.6
Nickel	mg/L	T	0.0011 J	0.0011 J	0.0012	0.00092 J	< 0.00065 U	< 0.00065 U	0.0010 J	0.00090 J	0.00079 J	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00095 J	0.00091 J
Silver	mg/L	T	< 0.000051 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	T	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00064 J	< 0.00062 U	< 0.00062 U
Zinc	mg/L	T	0.060	0.0019	0.0018	0.0012	0.094	< 0.0012 U	0.0018	0.0013	0.0018	< 0.0012 U	0.0012	0.0013	0.058	0.0014
Additional Parameters																
Bicarbonate Alkalinity	mg/L	T	1100	1100	1000	1100	1100	990	1100 D	1100	1000 D	980 D	1100	1100	1000	1100
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 UD	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Magnesium	mg/L	T	110	95	100	96	90	100	100 D	90 D	89 D	81 D	78	81	97 D	110 D
Potassium	mg/L	T	32	24	23	20	20	23	26	24 D	26 D	20 D	18	22	25 D	25
Sodium	mg/L	T	110	78	84	69	63	82	87	77 D	71 D	49 D	49	64	88 D	100 D
Total Alkalinity	mg/L	T	1100	1100	1000	1100	1100	990	1100 D	1100	1000 D	980 D	1100	1100	1000	1100

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-07														
			Background Monitoring								AM/DM Round						
			11/30/2022	1/4/2023	2/7/2023	3/13/2023	4/18/2023	5/23/2023	6/27/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/17/2024	10/15/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B & 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	0.46	1.21	1.206	1.209	1.25	1.24	1.25	1.25	1.23	1.25	1.27	1.29	1.24	1.25	
Dissolved Oxygen	mg/L	N	0.12	0.3	0.08	0.21	0.03	0.23	0.43	0.72	0.22	0.2	0.26	0.04	0.36	0.01	
Oxidation Reduction Potential	mV	N	57.2	-88	-103.1	-143.9	-68	-109.4	-140.5	-15.7	-141	-74.7	-60.1	-176.7	-134.1	-34.2	
pH	su	N	6.88	7.04	6.93	6.58	6.86	6.93	6.88	6.65	6.88	7.02	7.05	6.95	6.87	6.84	
Temperature	deg c	N	12.2	11	10	8.6	9.6	11.3	13	14.8	14.6	9.7	10.2	14.8	15	9.9	
Turbidity	NTU	N	5.89	4.2	4.07	0.02	2.94	1.5	0.02	0.72	0.74	9.13	0.74	0.02	0.02	3.07	
Appendix III																	
Boron	mg/L	T	13	11	12	11	10	12	11 J+	11	12 D	11 D	13 D	10	11 D	11	
Calcium	mg/L	T	140	140	140	150	130	150	160 D	120 D	150 D	140 D	160 D	150 D	130 D	160 D	
Chloride	mg/L	T	15	15	14	14	14	13	13 D	13 D	14 D	14 D	14 D	14 D	15 D	16 D	
Fluoride	mg/L	T	0.14	0.070 J	0.12	< 0.055 U	0.14	0.11	0.080 JD	0.083 JD	0.14 D	0.068 JD	0.080 JD	0.19 JD	< 0.055 UD	< 0.11 UD	
Sulfate (as SO4)	mg/L	T	29	30	33	20	17	15	18 D	19 D	26 D	32 D	36 D	15 D	34 D	37 D	
Total Dissolved Solids	mg/L	T	660	470	650	500	620	660	720 D	620 D	620 D	680 D	710 D	720 D	680 D	710 D	
Appendix IV																	
Antimony	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.000071 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	
Arsenic	mg/L	T	0.00023 J	0.00021 J	0.00023 J	0.00018 J	0.00013 J	0.00023 J	0.00020 J+	0.00020 J	0.00029 J	0.00021 J	0.00024 J	0.00023 J	0.00022 J	0.00018 J	
Barium	mg/L	T	0.33	0.34	0.36	0.30	0.25	0.34	0.35	0.34	0.38	0.35	0.34	0.36	0.37	0.42	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	0.000062 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	0.000066 J	0.000055 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.00038	0.00030	0.00037	0.00042	0.00028	0.00029	0.00033	0.00032	0.00036	0.00032	0.00034	0.00074	0.00041	0.00028	
Cobalt	mg/L	T	0.00071	0.00088	0.00099	0.00099	0.00087	0.00095	0.0011 J+	0.00098	0.00098	0.00074	0.00083	0.00080	0.0010	0.00086	
Fluoride	mg/L	T	0.14	0.070 J	0.12	< 0.055 U	0.14	0.11	0.080 JD	0.083 JD	0.14 D	0.068 JD	0.080 JD	0.19 JD	< 0.055 UD	< 0.11 UD	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	
Lithium	mg/L	T	0.0054	0.0070	0.0052	0.0067	0.0083	0.0055	0.010	0.0042	0.0062	0.0031	0.0057	0.0057	0.0056	0.0054	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	
Radium 226 and 228	pCi/L	T	1.12	1.26 J+	1.03	1.12	0.674	< 0.928 U	< 0.697 U	2.36	1.76	0.937	2.75	1.46	1.29	--	
Radium-226	pCi/L	T	0.444	0.53	0.333	0.38	0.475	0.309	0.341	0.665	0.475	0.495	0.508	0.551	0.333	--	
Radium-228	pCi/L	T	0.676	0.729 J+	0.693	< 0.835 U	< 0.559 U	< 0.928 U	< 0.697 U	1.7	1.28	< 0.789 U	2.25	< 0.965 U	0.959	--	
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00010 J	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00023 J	< 0.00010 U	0.00011 J	0.00017 J	0.00013 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	44	36	35	33	33	39	39	41 D	38	29	32 D	46	43 D	44	
Michigan CCR Part 115																	
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	0.00024 J	0.00021 J	< 0.00020 U	0.00062	
Iron	mg/L	T	16	13	13	15	14	19	17	14	18 D	15 D	15	17	17 D	19	
Nickel	mg/L	T	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00071 J	< 0.00065 U	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00079 J	0.00095 J	< 0.00062 U	
Zinc	mg/L	T	0.016	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.025	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0035	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.016	0.0013	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	660	580	630	610	640	630	620	620	600 D	610 D	630	640	620	650	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	37	37	37	38	38	40	36	35 D	38 D	38 D	40	36	35 D	39	
Potassium	mg/L	T	5.4	5.4	5.2	5.7	4.8	4.4	4.7	5.1	4.9	4.7 D	4.7	4.5	4.1 D	4.5	
Sodium	mg/L	T	53	47	47	47	59	57	56	48 D	51 D	52 D	57	55	47 D	44	
Total Alkalinity	mg/L	T	660	580	630	610	640	630	620	620	600 D	610 D	630	640	620	650	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-08														
			Background Monitoring								AM/DM Round						
			12/1/2022	1/5/2023	2/7/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	1.06	1.13	1.133	0.787	1.03	0.99	1.03	1.02	0.87	0.89	0.9	0.99	1.11	1.01	
Dissolved Oxygen	mg/L	N	0.2	0.09	0.05	0.55	0.06	0.09	0.04	0.09	1.53	0.3	0.1	0.05	0.17	0.01	
Oxidation Reduction Potential	mV	N	-159.3	-119.3	-133.9	-149.9	-121.2	-145.3	-103.6	-127.6	-180.6	-141.1	-164.6	-133.3	-138.6	-35.9	
pH	su	N	7.17	6.21	7.16	7.51	7.25	7.33	7.24	7.26	7.27	7.34	7.41	7	7.15	7.23	
Temperature	deg c	N	9.6	6.9	6.2	5.2	7.3	11.6	14	16.7	14.7	6.2	7.4	15.8	16.2	5	
Turbidity	NTU	N	0.02	0.02	0.66	0.02	1.04	0.02	2.11	5.63	0.02	2.79	1.03	0.02	0.02	0.51	
Appendix III																	
Boron	mg/L	T	2.5	4.4	9.3	7.1	6.6	7.0	7.8 J+	7.1	4.1 D	7.0 D	6.5	7.9	4.7 D	4.1	
Calcium	mg/L	T	150	160	150	150	130	140	150 D	120 D	130 D	120 D	130 D	120 D	130 D	140 D	
Chloride	mg/L	T	17	23	35	30	28	25	29 D	30 D	17 D	25 D	24 D	30 D	99 D	39 D	
Fluoride	mg/L	T	0.40	0.56	1.1	1.3	1.1	0.92	1.0 D	1.0 D	0.55 D	1.0 D	1.2 D	1.1 D	0.93 D	0.61 D	
Sulfate (as SO4)	mg/L	T	13	25	5.3	26	2.0 J	< 0.41 U	< 0.41 UD	< 0.41 UD	1.7 JD	5.6 D	7.0 D	< 2.2 UD	21 D	48 D	
Total Dissolved Solids	mg/L	T	560	480	630	480	560	550	610 D	530 D	440 D	530 D	510 D	550 D	660 D	590 D	
Appendix IV																	
Antimony	mg/L	T	0.000095 J	0.000054 J	0.00020 J	0.00016 J	0.00028	< 0.00010 U	0.00011 J	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00011 J	0.00016 J	
Arsenic	mg/L	T	0.0069	0.021	0.049	0.045	0.050	0.041	0.038 J+	0.029	0.011	0.030	0.047	0.044	0.030	0.033	
Barium	mg/L	T	1.2	1.3	1.5	1.4	1.1	1.2	1.4 D	1.2 D	0.98	1.0 D	1.1 D	1.3 D	1.3 D	0.94 D	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.00012 J	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00011 J	
Chromium, Total	mg/L	T	0.00067	0.00093	0.0015	0.0011	0.00084	0.0011	0.00094	0.00087	0.00061	0.00070	0.00075	0.00071	0.00063	0.00065	
Cobalt	mg/L	T	0.00034 J	0.00045 J	0.00070	0.00060	0.00051 J	0.00059	0.00062 J+	0.00058	0.00034 J	0.00034 J	0.00037 J	0.00037 J	0.00034 J	0.00098	
Fluoride	mg/L	T	0.40	0.56	1.1	1.3	1.1	0.92	1.0 D	1.0 D	0.55 D	1.0 D	1.2 D	1.1 D	0.93 D	0.61 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	0.00086	< 0.00022 U	0.00022 J	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00011 J	< 0.00010 U	< 0.00010 U	0.0029	0.00022 J	
Lithium	mg/L	T	0.063	0.11	0.14	0.14	0.11	0.11	0.13	0.12	0.076 D	0.097 D	0.098	0.11	0.082 D	0.075	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0024	0.0018	0.0015	0.0028	0.00095 J	0.00068 J	0.00039 J+	0.00036 J	0.0016	0.0017	0.0020	0.00031 J	0.00095 J	0.0020	
Radium 226 and 228	pCi/L	T	1.43	1.62 J+	< 0.836 U	1.13	1.18	1.14	< 0.606 U	2.1	0.891	< 0.848 U	1.86 J-	0.879	2.11	--	
Radium-226	pCi/L	T	0.277	0.31	0.286	< 0.255 U	0.32	0.396	0.19	0.358	< 0.234 U	< 0.126 U	0.177 J-	0.232	0.367	--	
Radium-228	pCi/L	T	1.16	1.31 J+	< 0.836 U	< 1 UG	0.858	< 0.835 U	< 0.606 U	1.74 G	< 0.744 U	< 0.848 U	1.68 J+	0.646	1.75	--	
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00016 J	0.00014 J+	0.00014 J	0.00015 J	0.00034 J	0.00012 J	0.00012 J	0.00018 J	0.00030 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00013 J	
Total Suspended Solids	mg/L	T	62	55	49	42	36	31	30	20	43	46	36 D	18	31	44 D	
Michigan CCR Part 115																	
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	0.00043	< 0.00020 U	0.00045	0.00034	< 0.00020 U	< 0.00020 U	0.00021 J	0.00035	0.00025	0.00047	0.00064	0.00080	
Iron	mg/L	T	32	30	21	22	18	18	15	13	22 D	22 D	19	14	15 D	21	
Nickel	mg/L	T	0.00093 J	0.0013	0.0015	0.0013	0.0011 J	0.0011 J	0.0011 J	0.0010 J	0.00085 J	0.0026	0.0032	0.0013	0.013	0.0052	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00091 J	
Zinc	mg/L	T	0.054	< 0.0012 U	0.0040	0.0013	0.12	0.0014	0.0018	< 0.0012 U	0.0025	< 0.0012 U	0.0017	0.0015	0.16	0.0037	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	540	510	560	470	510	490	480	480	460 D	440 D	440	460	410	400	
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	27	30	33	27	29	28	26	26 D	22 D	23 D	24	25	24 D	22	
Potassium	mg/L	T	8.8	12	14	7.6 J	12	11	12	12	8.6 D	8.6 D	9.0	11	9.1 D	7.7	
Sodium	mg/L	T	21	27	38	33	35	35	40	36 D	23 D	32 D	32	36	41 D	30	
Total Alkalinity	mg/L	T	540	510	560	470	510	490	480	480	460 D	440 D	440	460	410	400	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-09														
			Background Monitoring								AM/DM Round						
			11/28/2022	1/4/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/17/2024	10/17/2024	2/25/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B & 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	1.33	1.49	1.593	1.472	2.02	1.95	1.95	1.92	1.63	2.03	2.2	2.16	1.82	2.36	
Dissolved Oxygen	mg/L	N	0.19	0.2	1.89	0.35	0.08	0.07	0.05	0.17	0.07	0.34	0.27	0.01	0.17	3.08	
Oxidation Reduction Potential	mV	N	42	-183.9	-138.4	-131.5	-112.3	-107.1	-117	-114.7	-69.3	-106.1	-160.4	-155.1	-137.5	58.3	
pH	su	N	7.2	7.22	7.22	7.4	7.22	7.52	7.28	7.21	7.16	7.14	7.25	7.2	7.12	7	
Temperature	deg c	N	12.7	10.5	8.5	6.8	7.7	10.6	12.1	15	15.7	7.7	8.8	15.2	16.3	9.1	
Turbidity	NTU	N	0.02	0.02	1.04	0.02	0.55	0.66	0.71	2.01	0.49	1.89	2.01	4.56	0.02	0.73	
Appendix III																	
Boron	mg/L	T	6.0	5.8	6.1	5.1	4.9	5.9	6.3 J+	5.7	6.9 D	5.3 D	5.5	5.9	6.2 D	5.1	
Calcium	mg/L	T	270	230	300	400	390	410	430 D	330 D	310 D	420 D	500 D	430 D	310 D	510 D	
Chloride	mg/L	T	15	17	18	16	12	11	11 D	12 D	12 D	18 D	25 D	25 D	25 D	67 D	
Fluoride	mg/L	T	2.1	2.4	2.6	2.5	2.5	2.7	2.9 D	2.9 D	2.8 D	2.2 D	2.3 D	2.6 D	2.9 D	2.4 D	
Sulfate (as SO4)	mg/L	T	110	83	210	480	650	580	500 D	450 D	210 D	610 D	720 D	630 D	270 D	790 D	
Total Dissolved Solids	mg/L	T	960	740	1100	1400	1600	1600	1500 D	1400 D	1100 D	1600 D	1700 D	1700 D	1300 D	1900 D	
Appendix IV																	
Antimony	mg/L	T	0.000073 J	< 0.000050 U	0.00023 J	0.000092 J	0.00037 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 UD	< 0.00010 U	0.00012 J	< 0.00010 U	< 0.00010 U	
Arsenic	mg/L	T	0.0025	0.0023	0.0023	0.0023	0.0013	0.0013	0.0027 J+	0.0024	0.0023	0.0015	0.0030	0.0025	0.0025	0.0015	
Barium	mg/L	T	0.59	2.4	0.36	0.38	0.18	0.20	0.17	0.20	0.28	0.31 D	0.20	0.20	0.23	0.097	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000058 J	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000057 J	< 0.000052 U	0.00015 J	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.0022	0.0028	0.0032	0.0030	0.0018	0.0019	0.0031	0.0027	0.0018	0.0016	0.0026	0.0021	0.0027	0.0020	
Cobalt	mg/L	T	0.00035 J	0.00046 J	0.00058	0.00099	0.00053	0.00037 J	0.00069 J+	0.00075	0.00024 J	0.00058	0.00076	0.00024 J	0.00023 J	0.00043 J	
Fluoride	mg/L	T	2.1	2.4	2.6	2.5	2.5	2.7	2.9 D	2.9 D	2.8 D	2.2 D	2.3 D	2.6 D	2.9 D	2.4 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 UD	< 0.00010 U	< 0.00050 UD	< 0.00010 U	< 0.00050 UD	
Lithium	mg/L	T	0.29	0.34	0.33	0.31	0.26	0.29	0.34	0.33	0.29 D	0.26 D	0.29	0.30	0.27 D	0.33	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0024	< 0.00016 U	0.0021	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.028	0.033	0.029	0.021	0.020	0.012	0.019 J+	0.019	0.021	0.0097	0.021	0.016	0.028	0.023	
Radium 226 and 228	pCi/L	T	0.789	< 0.678 U	< 0.642 UJ	< 0.796 U	< 0.688 U	< 0.912 U	< 0.742 U	< 0.821 U	< 0.688 U	< 0.98 U	< 0.743 U	< 0.771 U	< 0.851 U	--	
Radium-226	pCi/L	T	< 0.16 U	< 0.0959 U	< 0.125 UJ	< 0.223 U	< 0.184 U	< 0.22 U	< 0.186 U	< 0.163 U	< 0.237 U	< 0.12 U	< 0.17 U	< 0.135 U	< 0.185 U	--	
Radium-228	pCi/L	T	0.69	< 0.678 U	< 0.642 UJ	< 0.796 U	< 0.688 U	< 0.912 U	< 0.742 U	< 0.821 U	< 0.688 U	< 0.98 U	< 0.743 U	< 0.771 U	< 0.851 U	--	
Selenium	mg/L	T	0.00026 J	< 0.00022 U	0.00028 J	0.00024 J	< 0.00022 U	0.00012 J	0.00027 J+	0.00026 J	0.00023 J	0.00024 J	0.00033 J	0.00029 J	0.00040 J	0.00064	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	
Total Suspended Solids	mg/L	T	45	51	52	50	56	52	46	48	39	47	50 D	57 D	47	33	
Michigan CCR Part 115																	
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00043	< 0.0002 U	< 0.00020 U	0.00029	0.0013	0.00029	0.00034	
Iron	mg/L	T	17	19	19	24	25	25	19	16	15 D	22 D	26	20	16 D	13	
Nickel	mg/L	T	0.00088 J	0.0020	0.0020	0.0033	0.0018	0.0010 J	0.0012	0.0012	0.00072 J	0.0060	0.0072	0.0099	0.0020	0.10	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	
Zinc	mg/L	T	0.025	0.0015	< 0.0012 UJ	< 0.0012 U	0.018	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0017	0.0091	0.016	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	750	710	750	620	610	400	720	660	780 D	610 D	600	630	790	670	
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	38	36	44	50	53	53	47	46 D	41 D	55 D	64	53	44 D	69	
Potassium	mg/L	T	13	16	16	10 J	15	14	16	17	15 D	13 D	14	15	14 D	16	
Sodium	mg/L	T	29	28	26	26	26	29	30	27 D	27 D	26 D	31	28	26 D	34	
Total Alkalinity	mg/L	T	750	710	750	620	610	400	720	660	780 D	610 D	600	630	790	670	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:		MW-10														
		Background Monitoring								AM/DM Round						
		11/29/2022	1/4/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/23/2023	2/13/2024	4/7/2024	7/17/2024	10/16/2024	2/26/2025	
		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
		Unit 3A/B & 1/2														
		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction														
Field Parameters																
Conductivity	mS/cm	N	1.96	2.48	2.34	2.16	2.51	2.18	2.83	3.19	2.68	2.37	3.62	3.62	4	2.87
Dissolved Oxygen	mg/L	N	0.08	0.04	0.07	0.05	0.02	0.03	0.11	0.02	0.07	0.18	0.03	0.03	0.07	0.17
Oxidation Reduction Potential	mV	N	-20.3	-245.6	-222.9	-200.2	-189.2	-197.6	-216.2	-168	-149.1	-116.1	-162.4	-193.2	-144.8	99
pH	su	N	7.85	7.79	7.05	8.19	7.96	8.81	7.85	7.74	7.47	7.8	7.8	7.42	7.53	7.76
Temperature	deg c	N	11.1	7.7	5.9	4.6	6.5	10.3	13.4	17	14.8	5.3	7.1	16.9	16.5	5.5
Turbidity	NTU	N	0.02	0.02	0.65	0.02	0.29	2.21	0.02	1.01	0.02	3.61	0.02	0.02	1.48	3.3
Appendix III																
Boron	mg/L	T	25	14	9.7	4.5	9.2	17	26 J+	28 D	23 D	8.7 D	6.4	15 D	21 D	23 D
Calcium	mg/L	T	220	220	280	460	280	210	210 D	160 D	190 D	310 D	590 D	430 D	360 D	300 D
Chloride	mg/L	T	220	170	130	92	140	160	320 D	430 D	310 D	140 D	240 D	420 D	670 D	350 D
Fluoride	mg/L	T	7.1	5.7	4.0	2.7	4.6	6.5	7.3 D	7.7 D	6 D	3.3 D	2.7 D	4.2 D	5.2 D	5.9 D
Sulfate (as SO4)	mg/L	T	490	620	880	360	950	410	200 D	140 D	330 D	840 D	1700 D	1000 D	690 D	390 D
Total Dissolved Solids	mg/L	T	1700	1800	1800	2400	1900	1500	1700 D	1900 D	1600 D	1800 D	3200 D	2700 D	2800 D	1900 D
Appendix IV																
Antimony	mg/L	T	0.00013 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00034 J	< 0.00050 U	0.00011 J	0.00011 J	< 0.0001 UJ	< 0.00050 UD	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	T	0.00049 J	0.00034 J	0.00038 J	0.00037 J	0.00020 J	0.00055	0.00073 J+	0.0011	0.00094	0.00025 J	0.00085	0.0012	0.0020	0.00053 J
Barium	mg/L	T	0.32	0.57	0.28	0.23	0.14	0.16	0.23	0.28	0.46	0.32 D	0.27	0.19	0.23	0.38
Beryllium	mg/L	T	< 0.000054 U	0.000071 J	< 0.000052 U	0.000054 J	< 0.000052 U	0.00022 J	0.000092 J+	0.00015 J	0.000052 J-	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000063 J	< 0.000052 U
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	T	0.0040	0.0050	0.0026	0.0018	0.0019	0.0042	0.0070	0.0085	0.0042	0.0013	0.0016	0.0028	0.0031	0.0045
Cobalt	mg/L	T	0.00038 J	0.00040 J	0.00041 J	0.00053	0.00030 J	0.0018	0.00068 J+	0.00090	0.00038 J-	< 0.00010 U	0.00010 J	0.00025 J	0.00042 J	0.00029 J
Fluoride	mg/L	T	7.1	5.7	4.0	2.7	4.6	6.5	7.3 D	7.7 D	6 D	3.3 D	2.7 D	4.2 D	5.2 D	5.9 D
Lead	mg/L	T	< 0.00023 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	0.00012 J	0.00017 J	< 0.00050 UD	< 0.00010 U	< 0.00050 UD	< 0.00050 UD	< 0.00010 U
Lithium	mg/L	T	0.92	0.83	0.54	1.6	0.99	0.83	1.1	1.2	0.94 D	0.56 D	0.76	0.94	1.0 D	0.97
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	0.0019	< 0.00016 U	< 0.00016 U	< 0.00016 U
Molybdenum	mg/L	T	0.0072	0.0033	0.0048	0.0036	0.0035 J	0.0056	0.0019 J+	0.0028	0.0027	0.00080 J	0.0015	0.0037	0.0035	0.00065 J
Radium 226 and 228	pCi/L	T	< 0.775 U	< 0.645 U	1.36	< 1.09 U	< 0.605 UJ	< 0.801 U	< 0.752 U	< 0.736 U	< 0.897 UJ	1.22	< 0.59 U	< 0.698 U	1.96	--
Radium-226	pCi/L	T	< 0.171 U	< 0.119 U	< 0.121 U	< 0.231 U	< 0.155 UJ	< 0.248 U	< 0.179 U	< 0.142 U	< 0.229 UJ	0.206	< 0.149 U	0.185	0.417	--
Radium-228	pCi/L	T	< 1 U	< 0.645 U	1.31	< 1.09 UG	< 0.605 UJ	< 0.801 U	< 0.752 U	< 0.736 U	< 0.897 UJ	1.01	< 0.59 U	< 0.698 U	1.54	--
Selenium	mg/L	T	0.00031 J	0.00028 J	0.00031 J	0.00046 J	< 0.00022 U	0.00039 J	0.00036 J+	0.00041 J	0.00036 J	0.00083	0.00030 J	0.00034 J	0.00032 J	0.00019 J
Thallium	mg/L	T	< 0.000076 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.00038 UD	< 0.000075 U
Total Suspended Solids	mg/L	T	4.0	4.0	1.0 J	9.0	8.0 J+	2.0 J	< 4.0 U	2.0 J	< 4 U	< 4.0 U	6.0	20	11	14 D
Michigan CCR Part 115																
Copper	mg/L	T	0.00049	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0013	< 0.00020 U	< 0.00020 U	0.00038 J-	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Iron	mg/L	T	3.7	3.7	3.9	7.2	7.3	6.2	4.5	3.2	2.4 D	3.7 D	6.0	5.9	5.2 D	7.0
Nickel	mg/L	T	0.00089 J	0.00087 J	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.0018	0.00088 J	0.0012	0.00076 J-	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00085 J	< 0.00065 U
Silver	mg/L	T	< 0.000051 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	T	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0013	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00089 J	0.0010 J
Zinc	mg/L	T	0.014	0.0012	< 0.0012 U	< 0.0012 U	0.013	0.0018	0.0012	0.0014	0.0025 J-	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.014	< 0.0012 U
Additional Parameters																
Bicarbonate Alkalinity	mg/L	T	680	580	320	140	340	540	720	770	700 D	240 D	220	410	560	850
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Magnesium	mg/L	T	85	86	91	95	76	63	59	58 D	61 D	86 D	120 D	100 D	91 D	110 D
Potassium	mg/L	T	44	33	31	40	42	36	46	48 D	45 D	41 D	60	63	62 D	42
Sodium	mg/L	T	220	160	120	140	160	190	310 D	390 D	300 D	120 D	130 D	250 D	360 D	230 D
Total Alkalinity	mg/L	T	680	580	320	140	340	540	720	770	700 D	240 D	220	410	560	850

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-11														
			Background Monitoring								AM/DM Round						
			11/29/2022	1/3/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/25/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	1.38	1.4	1.9	1.413	1.77	1.76	1.85	1.68	1.4	1.38	1.63	1.72	1.56	1.71	
Dissolved Oxygen	mg/L	N	0.1	0.31	0.25	0.19	0.23	0.09	0.13	0.22	0.31	0.07	0.25	0.09	0.23	0.44	
Oxidation Reduction Potential	mV	N	76.8	-142.4	-161.7	-121	-157.9	-136.5	-64.7	-27.6	-179.4	140.9	-148.2	-78	-142.4	50.6	
pH	su	N	7.28	7.32	7.4	7.47	7.33	7.34	7.31	7.22	7.44	7.33	7.38	7.13	7.24	7.09	
Temperature	deg c	N	13.6	11.7	9.9	7.5	7.8	10.6	13.2	15.3	15.9	9.2	9.4	15.4	16.1	9.6	
Turbidity	NTU	N	0.02	1.53	0.02	0.02	0.02	1.25	5.01	0.02	0.02	0.02	1.6	0.02	0.08	1.36	
Appendix III																	
Boron	mg/L	T	8.5	13	4.8 B	2.8	1.5	2.0	3.0 J+	7.2	12 D	8.1 D	3.2	4.8	7.1 D	5.2	
Calcium	mg/L	T	240	130	300	380	320	320	350 D	240 D	150 D	230 D	290 D	270 D	190 D	270 D	
Chloride	mg/L	T	95	84	78	62	52	53	72 D	73 D	88 D	62 D	38 D	59 D	73 D	71 D	
Fluoride	mg/L	T	0.81	1.4	0.37	0.32	0.21	0.22	0.25 D	0.69 D	1.2 D	0.75 D	0.61 D	0.47 D	0.90 D	0.45 D	
Sulfate (as SO4)	mg/L	T	13 J	10	42	180	210	87	17 D	1.8 JD	< 0.41 UD	< 0.41 UD	14 D	< 2.2 UD	< 1.1 UD	< 2.2 UD	
Total Dissolved Solids	mg/L	T	970 J-	680	1200	1100	1200	1200	1100 D	930 D	1800 D	880 D	960 D	1000 D	890 D	1000 D	
Appendix IV																	
Antimony	mg/L	T	0.000082 J	0.00069	< 0.000050 U	< 0.000050 U	0.00028 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	0.00028	< 0.00010 U	< 0.00010 U	< 0.00010 U	
Arsenic	mg/L	T	0.0017	0.0041	0.0016	0.0011	0.00061	0.0010	0.0012 J+	0.0019	0.0023	0.0012	0.0013	0.0015	0.0016	0.0014	
Barium	mg/L	T	0.74	1.2	0.59	0.60	0.36	0.41	0.50	0.57	0.87	0.83	0.53	0.56	0.78	0.57	
Beryllium	mg/L	T	< 0.000052 U	0.000091 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.00044	< 0.000052 U	0.000088 J	< 0.000052 U	
Cadmium	mg/L	T	< 0.000032 U	0.00073	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00016 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.00080	0.0086	0.0010	0.00087	0.00045	0.00052	0.0012	0.0018	0.00063	0.00062	0.00078	0.0010	0.00091	0.00086	
Cobalt	mg/L	T	0.00036 J	0.0012	0.00061	0.00072	0.00040 J	0.00040 J	0.00066 J+	0.00061	0.00023 J	0.00026 J	0.0024	0.00028 J	0.00032 J	0.00035 J	
Fluoride	mg/L	T	0.81	1.4	0.37	0.32	0.21	0.22	0.25 D	0.69 D	1.2 D	0.75 D	0.61 D	0.47 D	0.90 D	0.45 D	
Lead	mg/L	T	0.0025	0.068	0.0018 J	< 0.00022 U	< 0.0011 U	< 0.00050 U	0.0038 J+	0.00017 J	0.00036 J	0.00031 J	0.00043 J	0.00018 J	0.00041 J	0.00042 J	
Lithium	mg/L	T	0.10	0.22	0.052	0.028	0.0059	0.0084	0.022	0.095	0.15 D	0.077 D	0.028	0.042	0.065 D	0.051	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0011	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0017	0.0029	0.0015	< 0.00062 U	< 0.00062 U	0.00043 J	0.00066 J+	0.0013	0.0015	0.00066 J	0.0030	0.0010 J	0.00062 J	0.00095 J	
Radium 226 and 228	pCi/L	T	1.19	1.32	< 0.91 U	1.07	1.67	0.812	< 1 U	1.76	0.764	1.13	< 0.775 U	< 0.575 U	2.61	--	
Radium-226	pCi/L	T	0.445	0.422	0.352	0.304	0.406	0.228	0.243	0.409	0.469	0.514	0.205	0.275	0.319	--	
Radium-228	pCi/L	T	0.75	0.903	< 0.91 U	< 0.84 U	1.26	< 0.721 U	< 1 U	1.35	< 0.624 U	< 0.765 U	< 0.775 U	< 0.575 U	2.3	--	
Selenium	mg/L	T	0.00022 J	0.00031 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00014 J	0.00016 J+	0.00021 J	0.0002 J	0.00071	0.00041 J	0.00017 J	0.00015 J	0.00018 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00021 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	21	35	10	11	4.0	< 4.0 U	4.0	6.0	19	9.0	4.0	4.0	28	22	
Michigan CCR Part 115																	
Copper	mg/L	T	0.00043	0.019	0.00047	< 0.00020 U	< 0.00020 U	0.00024 J	0.00056 B	0.0016	< 0.0002 U	0.00020 J	0.0021	0.00031	0.00028	0.00025	
Iron	mg/L	T	8.7	10	4.9	6.1	3.6	3.8	4.2	6.7	11 D	8.5 D	5.6	7.1	9.5 D	8.2	
Nickel	mg/L	T	0.0013	0.0094	0.0015	0.0012	0.00065 J	0.00068 J	0.0013	0.0018	0.0015	0.0011 J	0.0028	0.00098 J	0.0015	0.0015	
Silver	mg/L	T	< 0.000050 U	0.00014	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	0.00017	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	0.00062 J	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0030	< 0.00062 U	< 0.00062 U	< 0.00062 U	
Zinc	mg/L	T	0.032	0.10	0.0085	< 0.0012 U	0.033	< 0.0012 U	0.0049	0.0031	0.0018	< 0.0012 U	0.0035	< 0.0012 U	0.032	0.041	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	840	600	860	810	800	840	890	800	660 D	760 D	840	820	770	900	
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	60	55	63	67	60	55	55	56 D	52 D	61 D	55	49	48 D	58	
Potassium	mg/L	T	15	19	11	8.5	5.7	5.5	8.1	14	18 D	14 D	7.2	9.2	12 D	11	
Sodium	mg/L	T	57	70	37	25	21	26	38	50 D	67 D	51 D	28	36	45 D	44	
Total Alkalinity	mg/L	T	840	600	860	810	800	840	890	800	660 D	760 D	840	820	770	900	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-12														
			Background Monitoring								AM/DM Round						
			11/28/2022	1/3/2023	2/7/2023	3/13/2023	4/19/2023	5/23/2023	6/27/2023	8/7/2023	10/23/2023	2/13/2024	4/8/2024	7/17/2024	10/16/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	0.459	0.387	0.542	0.311	0.52	0.44	0.55	0.67	0.64	0.33	0.345	0.57	0.55	0.471	
Dissolved Oxygen	mg/L	N	1.62	8.72	8.46	10.31	1.03	2.93	0.12	0.08	0.16	11.12	8.25	0.17	0.11	2.07	
Oxidation Reduction Potential	mV	N	93.4	47.4	-14.8	87.6	26.2	131	54.9	-30.1	-118.7	36.8	125.4	-2.2	-38	-18.7	
pH	su	N	7.67	7	7.8	8.16	7.92	7.77	7.52	7.47	7.46	8.32	7.91	7.46	7.33	7.73	
Temperature	deg c	N	8.8	3.3	1.3	3	9.7	13.9	17.5	20.9	15.9	3.5	6.5	19.5	17.6	3.7	
Turbidity	NTU	N	0.02	0.02	0.02	0.02	0.02	1.92	0.02	0.02	0.31	0.02	0.02	0.02	0.02	0.02	
Appendix III																	
Boron	mg/L	T	0.39	0.24	0.26	0.19	0.20	0.27	0.33 J+	0.36	0.42 D	0.22 D	0.25	0.41	0.40 D	0.36	
Calcium	mg/L	T	77	46	78	77	55	63	64	95 D	95 D	40 D	40	74	79 D	59	
Chloride	mg/L	T	24	16	27	18	16	15	17 D	22 D	26 D	17 D	12 D	18 D	18 D	27 D	
Fluoride	mg/L	T	0.54	0.43	0.23	0.48	0.23	0.22	0.26 D	0.28 D	0.26 D	0.46 D	0.41 D	0.29 D	0.31 D	0.20 D	
Sulfate (as SO4)	mg/L	T	180	130	180	120	110	99	110 D	130 D	130 D	84 D	68 D	62 D	52 D	100 D	
Total Dissolved Solids	mg/L	T	360	210	340	200	260	270	330 D	420	200	100 D	210	380 D	330 D	300 D	
Appendix IV																	
Antimony	mg/L	T	0.00071	0.0011	0.00076	0.00053	0.00094	0.00092	0.00064	0.00040	0.00041	0.00035	0.00053	0.00040	0.00084	0.0015	
Arsenic	mg/L	T	0.0028	0.0019	0.0018	0.0014	0.0019	0.0024	0.0029 J+	0.0034	0.0031	0.0016	0.0017	0.0032	0.0030	0.0015	
Barium	mg/L	T	0.030	0.017	0.024	0.025	0.022	0.032	0.043	0.053	0.06	0.022	0.025	0.071	0.10	0.051	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	0.00067	0.00078	0.0014	0.00062	0.0012	0.0016	0.0024 J+	0.0022	0.0011	0.00054	0.00082	0.0032	0.0028	0.0012	
Chromium, Total	mg/L	T	0.00034	0.00048	0.00046	0.00067	0.00054	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00099	0.00095	< 0.00020 UJ	0.00025	0.00041	
Cobalt	mg/L	T	0.00019 J	< 0.00010 U	0.00014 J	< 0.00010 U	< 0.00010 U	0.00026 J	0.00050 J+	0.00053	0.00038 J	< 0.00010 U	< 0.00010 U	0.00056	0.00093	0.00011 J	
Fluoride	mg/L	T	0.54	0.43	0.23	0.48	0.23	0.22	0.26 D	0.28 D	0.26 D	0.46 D	0.41 D	0.29 D	0.31 D	0.20 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00015 J	0.00014 J+	0.00021 J	0.00021 J	< 0.00010 U	0.00039 J	0.00038 J	0.00047 J	0.00015 J	
Lithium	mg/L	T	0.0037	0.0033	0.0022 J	0.0025 J+	0.0037	0.0043	0.0064	0.0042	0.0048	0.0023 J	0.0019 J	0.0047	0.0059	0.0020 J	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00016 J	< 0.00016 U	0.00023	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0087	0.0072	0.0067	0.0056	0.0057	0.0069	0.0082 J+	0.0088	0.0096	0.0051	0.0046	0.0064	0.018	0.0087	
Radium 226 and 228	pCi/L	T	< 0.543 U	< 0.459 U	< 0.685 U	< 0.619 U	0.809	1.09	< 0.59 UJ	< 0.578 UJ	< 0.517 U	< 0.749 U	0.769	< 0.602 UJ	1.07	--	
Radium-226	pCi/L	T	< 0.13 U	< 0.0702 U	< 0.0727 U	< 0.126 U	< 0.129 U	< 0.136 U	< 0.124 U	< 0.106 UJ	< 0.212 U	< 0.116 U	< 0.146 U	0.119	< 0.148 U	--	
Radium-228	pCi/L	T	< 0.543 U	< 0.459 U	< 0.685 U	< 0.619 U	0.793	1.07	< 0.59 UJ	< 0.578 UJ	< 0.517 U	< 0.749 U	0.729	< 0.602 UJ	1.07	--	
Selenium	mg/L	T	0.0015	0.0022	0.0023	0.00093	0.0017	0.00076	0.00021 J+	0.00013 J	0.00029 J	0.00089	0.0012	0.00014 J	0.00043 J	0.0043	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	< 4.0 U	< 4.0 U	2.0 J	< 4.0 U	1.0 J	< 4.0 U	< 4.0 UJ	0.98 J+	< 4 U	< 4.0 U	< 4.0 UD	< 3.9 UD	< 4.0 U	< 4.0 UD	
Michigan CCR Part 115																	
Copper	mg/L	T	0.00055	0.00092	0.0010	0.0010	0.0015	0.0016	0.0012 B	0.00094	0.00071	0.0012	0.0013	0.0014	0.0019	0.0034	
Iron	mg/L	T	< 0.26 U	< 0.026 U	0.033 J	0.027 J	< 0.026 U	< 0.026 U	0.051	0.064	0.037 J	< 0.026 UJ	< 0.026 UJ	0.068	0.15	0.021 J	
Nickel	mg/L	T	0.0025	0.0023	0.0035	0.0016	0.0021	0.0025	0.0031	0.0035	0.0026	0.0014	0.0014	0.0029	0.0034	0.0029	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00085 J	0.0013	0.0012	0.00095 J	< 0.00062 U	< 0.00062 U	0.00087 J	0.0016	0.0021	0.00074 J	
Zinc	mg/L	T	0.0068	0.0080	0.0095	0.0037	0.0090	0.0074	0.0085	0.010	0.008	0.0027	0.0050	0.011	0.017	0.0073	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	86	55	52	46	85	95	140	140	190 D	47	86	200	220	98	
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	17	12	2.4	12	13	15	14	19	22 D	11 D	13	21	19 D	18	
Potassium	mg/L	T	1.3	0.70	0.74	0.82	1.0	1.3	1.3	1.8	1.7	0.62	0.60	1.3	1.8	0.62	
Sodium	mg/L	T	13	11	14	9.9	9.4	11	11	14	16 D	9.8 D	8.8	12	18 D	15	
Total Alkalinity	mg/L	T	86	55	52	46	85	95	140	140	190 D	47	86	200	220	98	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

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J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
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R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-16				
			AM/DM Round				
			4/8/2024	7/18/2024	10/17/2024	2/25/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	
			Unit 1/2				
			Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction					
Field Parameters							
Conductivity	mS/cm	N	1.1	1.36	1.36	1.36	
Dissolved Oxygen	mg/L	N	0.04	0.18	0.19	0.06	
Oxidation Reduction Potential	mV	N	-90.4	-15.6	-135.9	-51.2	
pH	su	N	7.29	6.53	6.93	7.29	
Temperature	deg c	N	7.1	17.6	18.2	4.5	
Turbidity	NTU	N	0.02	0.02	0.02	0.59	
Appendix III							
Boron	mg/L	T	0.22	0.43	0.39 D	0.27	
Calcium	mg/L	T	190 D	250 D	230 D	280 D	
Chloride	mg/L	T	14 D	21 D	20 D	18 D	
Fluoride	mg/L	T	0.14 D	0.19 JD	< 0.055 UD	0.15 JD	
Sulfate (as SO4)	mg/L	T	60 D	< 2.2 UD	< 1.1 UD	90 D	
Total Dissolved Solids	mg/L	T	680 D	830 D	790 D	910 D	
Appendix IV							
Antimony	mg/L	T	< 0.00010 U	< 0.00010 U	0.00011 J	< 0.00010 U	
Arsenic	mg/L	T	0.0052	0.0034	0.017	0.0012	
Barium	mg/L	T	0.18	0.28	0.29	0.18	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.00064	0.00085	0.0013	0.00051	
Cobalt	mg/L	T	0.00021 J	0.00017 J	0.00030 J	0.00039 J	
Fluoride	mg/L	T	0.14 D	0.19 JD	< 0.055 UD	0.15 JD	
Lead	mg/L	T	< 0.00010 U	< 0.00010 U	0.00013 J	0.00019 J	
Lithium	mg/L	T	0.016	0.025	0.024 D	0.020	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	
Radium 226 and 228	pCi/L	T	1.01	< 0.623 U	2.31	--	
Radium-226	pCi/L	T	< 0.199 U	0.296	0.371	--	
Radium-228	pCi/L	T	0.902	< 0.623 U	1.94	--	
Selenium	mg/L	T	0.00012 J	0.00011 J	0.00015 J	< 0.00010 U	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	16 D	11	40	4.0 D	
Michigan CCR Part 115							
Copper	mg/L	T	0.00025	< 0.00020 U	< 0.00020 U	0.00031	
Iron	mg/L	T	7.1	6.7	13 D	4.7	
Nickel	mg/L	T	0.00065 J	< 0.00065 U	0.0010 J	0.0028	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	0.00066 J	0.00076 J	< 0.00062 U	
Zinc	mg/L	T	< 0.0012 U	< 0.0012 U	0.012	0.016	
Additional Parameters							
Bicarbonate Alkalinity	mg/L	T	550	710	760	720	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	23	27	26 D	33	
Potassium	mg/L	T	3.9	5.1	5.2 D	5.2	
Sodium	mg/L	T	17	23	21 D	25	
Total Alkalinity	mg/L	T	550	710	760	720	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
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All metals were analyzed as total unless otherwise indicated.

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J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-17				
			AM/DM Round				
			4/8/2024	7/17/2024	10/16/2024	2/3/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	
			Unit 1/2				
			Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction					
Field Parameters							
Conductivity	mS/cm	N	1.12	0.95	1.03	1.02	
Dissolved Oxygen	mg/L	N	0.06	0.02	0.03	0.01	
Oxidation Reduction Potential	mV	N	-157.2	-197.6	-194.5	-74.4	
pH	su	N	7.88	7.31	7.52	7.69	
Temperature	deg c	N	9.1	20.3	18.6	6.7	
Turbidity	NTU	N	0.02	0.21	1.02	3.69	
Appendix III							
Boron	mg/L	T	0.79	0.75	0.89 D	0.58	
Calcium	mg/L	T	160 D	140 D	130 D	130 D	
Chloride	mg/L	T	43 D	33 D	47 D	34 D	
Fluoride	mg/L	T	0.48 D	0.56 D	0.67 D	0.38 D	
Sulfate (as SO4)	mg/L	T	4.8 JD	33 D	7.3 D	27 D	
Total Dissolved Solids	mg/L	T	620 D	620 D	580 D	600 D	
Appendix IV							
Antimony	mg/L	T	< 0.00010 U	0.00016 J	< 0.00010 U	< 0.00010 U	
Arsenic	mg/L	T	0.0018	0.0026	0.0024	0.0012	
Barium	mg/L	T	0.70	0.53	0.65	0.55	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000069 J	
Cadmium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.00076	0.0011	0.00081	0.00066	
Cobalt	mg/L	T	0.00033 J	0.00044 J	0.00052	0.00048 J	
Fluoride	mg/L	T	0.48 D	0.56 D	0.67 D	0.38 D	
Lead	mg/L	T	0.00019 J	0.00042 J	0.00017 J	0.00077	
Lithium	mg/L	T	0.035	0.033	0.036 D	0.028	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.00079 J	0.0031	0.00077 J	0.00093 J	
Radium 226 and 228	pCi/L	T	0.656	< 0.918 U	1.56	--	
Radium-226	pCi/L	T	< 0.185 U	0.315	0.334	--	
Radium-228	pCi/L	T	< 0.571 U	< 0.918 U	1.22	--	
Selenium	mg/L	T	0.00014 J	0.00021 J	0.00013 J	0.00011 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	9.0	9.0	12	10	
Michigan CCR Part 115							
Copper	mg/L	T	0.00088	0.0016	0.00049	0.0010	
Iron	mg/L	T	6.6	3.5	3.8 D	4.1	
Nickel	mg/L	T	0.0011 J	0.0020	0.0015	0.0011 J	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	0.00084 J	0.0013	0.00089 J	0.00077 J	
Zinc	mg/L	T	0.0026	0.0059	0.027	0.044	
Additional Parameters							
Bicarbonate Alkalinity	mg/L	T	530	460	500	480	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	30	24	24 D	24	
Potassium	mg/L	T	15	16	16 D	12	
Sodium	mg/L	T	59	39	56 D	49	
Total Alkalinity	mg/L	T	530	460	500	480	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-18														
			Background Monitoring								AM/DM Round						
			11/30/2022	1/5/2023	2/8/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/17/2024	10/16/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	1.54	2.06	1.788	1.554	1.4	1.52	1.62	1.46	1.6	1.51	1.69	1.64	1.69	1.85	
Dissolved Oxygen	mg/L	N	0.09	0.19	0.72	0.22	0.34	0.15	0.29	0.05	0.3	0.05	0.4	0.04	0.02	0.47	
Oxidation Reduction Potential	mV	N	66.8	-126.8	-70.8	-69.8	-31.3	-22.1	-88.4	-92.8	-80	132.6	-114.3	-143.3	-123.7	79.4	
pH	su	N	7.05	7.02	7.2	7.12	7.19	7.16	7.25	7.16	7.16	7.27	7.18	7.31	7.17	7.18	
Temperature	deg c	N	9.9	6.5	5.2	3.8	6.3	11.3	17.2	17.8	15.3	5.5	7	17.3	16	5.3	
Turbidity	NTU	N	0.02	0.02	0.09	0.02	0.52	0.02	0.02	7.06	0.59	0.02	0.02	4.07	1.39	4.55	
Appendix III																	
Boron	mg/L	T	2.2	2.0	2.3	1.9	1.8	2.6	2.7 J+	2.3	3 D	3.5 D	4.0 D	3.9	3.9 D	4.4	
Calcium	mg/L	T	450	410	380	330	270	340	240 D	250 D	360 D	370 D	350 D	330 D	330 D	410 D	
Chloride	mg/L	T	28	26	22	19	16	19	24 D	27 D	22 D	24 D	16 D	27 D	24 D	32 D	
Fluoride	mg/L	T	3.5	3.3	3.5	3.8	3.8	3.9	4.4 D	5.1 D	4.5 D	3.4 D	2.7 D	4.5 D	4.8 D	3.2 D	
Sulfate (as SO4)	mg/L	T	1200	1200	480	740	660	780	760 D	620 D	800 D	980 D	790 D	750 D	740 D	1100 D	
Total Dissolved Solids	mg/L	T	1800	1700	1600	1200	1200	1400	1400 D	1100 D	1400 D	1400 D	1400	1300 D	1300 D	1600 D	
Appendix IV																	
Antimony	mg/L	T	0.00012 J	0.00013 J	0.00032 J	0.00014 J	0.00030	< 0.00050 U	0.00012 J	< 0.00010 U	0.00013 J	< 0.00050 UD	0.00018 J	0.00011 J	0.00012 J	0.00023 J	
Arsenic	mg/L	T	0.029	0.020	0.023	0.019	0.021	0.015	0.029 J+	0.030	0.041	0.024	0.029	0.031	0.044	0.028	
Barium	mg/L	T	0.021	0.018	0.015	0.012	0.013	0.023	0.024	0.023	0.025	0.015 D	0.014	0.022	0.028	0.018	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000059 J	< 0.000052 U	< 0.000052 U	0.000053 J	
Cadmium	mg/L	T	0.00022 J	0.00030	< 0.00016 U	0.00018 J	0.00018 J	0.00044 J	0.00030 J+	0.000089 J	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00011 J	
Chromium, Total	mg/L	T	< 0.00018 U	< 0.00018 U	< 0.00018 U	< 0.00018 U	< 0.00018 U	0.00025 J+	< 0.00020 U	< 0.00020 U	< 0.0002 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	
Cobalt	mg/L	T	0.0060	0.0054	0.0048	0.0032	0.0020	0.0019	0.0032 J+	0.0023	0.0017	0.0023	0.0020	0.0014	0.0016	0.0023	
Fluoride	mg/L	T	3.5	3.3	3.5	3.8	3.8	3.9	4.4 D	5.1 D	4.5 D	3.4 D	2.7 D	4.5 D	4.8 D	3.2 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00050 U	0.00016 J+	0.00032 J	0.00014 J	< 0.00050 UD	< 0.00010 U	0.00015 J	0.00014 J	< 0.00010 U	
Lithium	mg/L	T	0.044	0.042	0.029	0.027	0.026	0.029	0.041	0.045	0.039 D	0.020 D	0.030	0.041	0.042 D	0.032	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.013	0.012	0.011	0.013	0.014	0.0090	0.019 J+	0.021	0.02	0.011	0.013	0.018	0.021	0.015	
Radium 226 and 228	pCi/L	T	0.618	< 0.478 U	< 0.501 U	< 0.592 U	1.27	< 0.701 UJ	< 0.872 U	0.73	< 0.625 U	< 0.578 U	0.927	< 0.621 U	1.01	--	
Radium-226	pCi/L	T	< 0.131 U	< 0.0981 U	< 0.083 U	< 0.202 U	< 0.137 U	< 0.122 UJ	< 0.124 U	< 0.105 U	< 0.209 U	< 0.114 U	< 0.191 U	< 0.1 U	< 0.149 U	--	
Radium-228	pCi/L	T	0.584	< 0.478 U	< 0.501 U	< 0.592 U	1.24	< 0.701 UJ	< 0.872 U	0.713	< 0.625 U	< 0.578 U	0.906	< 0.621 U	0.991	--	
Selenium	mg/L	T	0.00031 J	0.00041 J	0.00034 J	0.00086	0.00079	0.00016 J	0.00018 J+	0.00016 J	0.00082	0.0012	0.0020	0.00016 J	0.00014 J	0.00053	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	12	4.0	13	2.0 J	6.0	6.0	11	7.9 D	11 D	< 4.0 U	100	15	14	4.0 D	
Michigan CCR Part 115																	
Copper	mg/L	T	0.00043	0.00043	0.00043	0.00043	0.00062	0.00055	0.00088 B	0.0015	0.00047	0.00033	0.00048	0.00062	0.0017	0.00039	
Iron	mg/L	T	10	8.6	6.8	5.4	4.3	5.3	5.8	4.9	7 D	7.7 D	7.0	6.2	6.9 D	8.1	
Nickel	mg/L	T	0.011	0.011	0.0094	0.0074	0.0051	0.0050	0.0075	0.0049	0.0047	0.0056	0.0053	0.0037	0.0049	0.0058	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	
Zinc	mg/L	T	0.074	0.088	0.060	0.068	0.043	0.038	0.061	0.028	0.054	0.042	0.038	0.017	0.031	0.045	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	160	110	100	130	140	130	150	200	200 D	120	120	180	220	100	
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	37	36	33	26	22	29	28	21	30 D	42 D	39	33	35 D	50	
Potassium	mg/L	T	11	12	11	9.4	8.7	10	11	11	11 D	8.9 D	9.1	10	10 D	8.4	
Sodium	mg/L	T	21	20	21	17	15	18	20	20	20 D	24 D	23	23	23 D	31	
Total Alkalinity	mg/L	T	160	110	100	130	140	130	150	200	200 D	120	120	180	220	100	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-19															
			Background Monitoring								AM/DM Round							
			11/30/2022	1/3/2023	2/8/2023	3/13/2023	4/18/2023	5/22/2023	6/28/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/18/2024	10/16/2024	2/26/2025		
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample		
Unit:			Unit 1/2															
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction																
Field Parameters																		
Conductivity	mS/cm	N	1.91	2.56	2.493	2.196	2.31	2.29	1.98	20.4	2.2	1.77	2.11	2.04	1.97	1.99		
Dissolved Oxygen	mg/L	N	0.12	0.41	1.03	0.13	0.02	0.09	0.32	0.4	0.26	0.05	0.06	0.02	0.3	0.32		
Oxidation Reduction Potential	mV	N	68.7	-134.8	-70.2	-77.1	-7.9	-118.4	-112.9	-36.8	-109.1	141.9	19.4	-152	-71.9	91.2		
pH	su	N	7	6.39	6.98	6.9	6.92	7.07	6.9	6.82	6.88	6.73	6.85	6.85	6.75	6.7		
Temperature	deg c	N	9.2	7.3	6.3	5.7	8	11.4	13.9	16.7	15.8	5.9	8.5	16.6	15.9	5.2		
Turbidity	NTU	N	0.02	1.6	2.27	0.02	2.59	0.02	0.02	0.02	0.02	2.48	0.02	0.02	0.02	2.98		
Appendix III																		
Boron	mg/L	T	2.6	2.0	2.2	1.5	1.6	1.8	2.3 J+	1.9	2.6 D	1.8 D	1.5	2.0	2.5 D	2.4		
Calcium	mg/L	T	530	510	550	510	450 E	480	460 D	360 D	470 D	490 D	480 D	440 D	400 D	470 D		
Chloride	mg/L	T	75	64	66	46	42	40	37 D	38 D	50 D	39 D	23 D	34 D	40 D	27 D		
Fluoride	mg/L	T	2.2	2.3	1.9	1.7	1.8	1.9	1.9 D	2.2 D	2 D	1.6 D	1.5 D	1.7 D	2.1 D	1.4 D		
Sulfate (as SO4)	mg/L	T	1300	1300	600	1100	1200	1100	800 D	830 D	1100 D	1000 D	1000 D	940 D	850 D	960 D		
Total Dissolved Solids	mg/L	T	2200 J-	2200	2200	2100	2000	2000	1600 D	1600 D	1900 D	1800 D	1700 D	1700 D	1600 D	1700 D		
Appendix IV																		
Antimony	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00072 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 UD	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00046		
Arsenic	mg/L	T	0.0061	0.0055	0.0055	0.0043	0.0032	0.0031	0.0069 J+	0.0073	0.0067	0.0026	0.0044	0.0065	0.0069	0.0042		
Barium	mg/L	T	0.046	0.050	0.047	0.036	0.030	0.040	0.040	0.037	0.044	0.037 D	0.034	0.036	0.039	0.036		
Beryllium	mg/L	T	< 0.000052 U	0.000063 J	< 0.00026 U	0.000061 J	0.000057 J	0.000071 J	0.000077 J+	0.000072 J	< 0.000052 U	0.000086 J	0.000085 J	0.000085 J	0.00011 J	0.000058 J		
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U		
Chromium, Total	mg/L	T	0.00027	0.00053	< 0.00088 U	0.00037	< 0.00018 U	< 0.00020 U	0.00031	0.00029	< 0.0002 U	< 0.00020 U	0.00025	0.00027	0.00027	0.00020 J		
Cobalt	mg/L	T	0.00046 J	0.00069	0.00078 J	0.00096	0.00069	0.00042 J	0.00050 J+	0.00044 J	0.00013 J	0.00023 J	0.00046 J	< 0.00010 U	0.00021 J	0.0012		
Fluoride	mg/L	T	2.2	2.3	1.9	1.7	1.8	1.9	1.9 D	2.2 D	2 D	1.6 D	1.5 D	1.7 D	2.1 D	1.4 D		
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 UD	< 0.00010 U	< 0.00050 UD	< 0.00050 UD	< 0.00010 U		
Lithium	mg/L	T	0.099	0.11	0.099	0.090	0.11	0.085	0.090	0.098	0.089 D	0.073 D	0.074	0.090	0.087 D	0.084		
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U		
Molybdenum	mg/L	T	0.013	0.011	0.0095	0.011	0.0090	0.0051	0.012 J+	0.013	0.01	0.0039	0.0099	0.0081	0.013	0.019		
Radium 226 and 228	pCi/L	T	< 0.589 U	0.626	1.03	1.08	0.933	0.904	< 0.561 U	1.17	< 1.13 U	0.779	1.32	< 0.528 U	< 0.592 U	--		
Radium-226	pCi/L	T	0.235	0.222	0.266	0.171	< 0.183 U	0.216	< 0.129 U	0.179	< 0.156 U	0.219	< 0.184 U	0.157	0.221	--		
Radium-228	pCi/L	T	< 0.589 U	< 0.503 U	0.761	0.911	0.818	0.688	< 0.561 U	0.993	< 1.13 UG	0.561	1.15	< 0.528 U	< 0.592 U	--		
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00012 J	< 0.00010 U	0.00012 J	0.00020 J	0.00013 J		
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.00038 UD	< 0.000075 U		
Total Suspended Solids	mg/L	T	27	25	16	6.0	23	19	29	33	26	17	6.0	34	37	15 D		
Michigan CCR Part 115																		
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	< 0.0010 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	< 0.00020 U	0.00022 J	0.00035	< 0.00020 U	< 0.00020 U		
Iron	mg/L	T	15	18	16	13	12	13	16	15	24 D	20 D	17	21	21 D	17		
Nickel	mg/L	T	0.0024	0.0028	< 0.0032 U	0.0024	0.0017	0.0011 J	0.0015	0.0015	0.0012	0.0012	0.0025	0.017	0.0039	0.0026		
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U		
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U		
Zinc	mg/L	T	0.0023	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.0042	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0019	0.0046		
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	330	340	310	280	240	260	340	330	270 D	290	270	300	260	280		
Carbonate Alkalinity	mg/L	T	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U		
Magnesium	mg/L	T	49	42	45	38	43	45	32	30 D	39 D	39 D	35	33	36 D	37		
Potassium	mg/L	T	18	22	16	20	16	16	15	17	16 D	15 D	14	14	14 D	15		
Sodium	mg/L	T	48	40	44	37	38	38	36	31 D	37 D	33 D	30	29	30 D	32		
Total Alkalinity	mg/L	T	330	340	310	280	240	260	340	330	270 D	290	270	300	260	280		

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-20														
			Background Monitoring								AM/DM Round						
			11/30/2022	1/4/2023	2/7/2023	3/13/2023	4/18/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/17/2024	10/16/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	1.2	1.24	1.232	1.218	1.37	1.41	1.17	1.18	1.26	1.17	1.45	1.12	1.09	0.95	
Dissolved Oxygen	mg/L	N	0.24	0.1	0.02	0.12	0.16	0.05	0.32	0.26	0.72	0.21	0.03	0.01	0.83	0.02	
Oxidation Reduction Potential	mV	N	-142	-148.2	-153.3	-153	-162.4	-159.7	-174.4	-105.9	-179.7	-128.7	-117.8	-178.3	-193.1	-38.1	
pH	su	N	7.23	7.5	7.29	7.2	7.44	7.45	7.3	7.14	7.33	7.45	7.45	7.34	7.34	7.44	
Temperature	deg c	N	9.7	7.2	6.7	5.7	7.2	10.8	13.1	19.6	14.8	6.5	8.3	17	16.2	6.3	
Turbidity	NTU	N	0.02	0.02	1.91	0.02	0.02	0.02	0.02	0.02	0.02	1.14	0.02	0.02	2.11	2.04	
Appendix III																	
Boron	mg/L	T	1.1	0.83	0.87	0.82	0.80	0.92	1.1 J+	1.1	1.1 D	0.72 D	0.76	1.1	1.3 D	0.82	
Calcium	mg/L	T	130	120	140	170	130	130	58	110 D	130 D	120 D	140 D	120 D	120 D	110 D	
Chloride	mg/L	T	70	66	62	60	88	92	71 D	70 D	70 D	41 D	77 D	62 D	44 D	29 D	
Fluoride	mg/L	T	0.55	0.26	0.24	0.26	0.21	0.21	0.22 D	0.23 D	0.23 D	0.25 D	0.27 D	0.29 D	0.12 D	0.22 D	
Sulfate (as SO4)	mg/L	T	42	78	120	110	85	76	30 D	19 D	33 D	78 D	62 D	18 D	24 D	38 D	
Total Dissolved Solids	mg/L	T	660	660	690	680	760	770	650 D	570 D	650 D	640 D	840 D	640 D	560 D	510 D	
Appendix IV																	
Antimony	mg/L	T	0.000096 J	0.000054 J	0.000066 J	0.000062 J	0.00016 J	< 0.00010 U	0.00011 J	0.00014 J	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00010 J	0.00012 J	0.00012 J	
Arsenic	mg/L	T	0.0015	0.0012	0.0012	0.0012	0.0013	0.0015	0.0016 J+	0.0017	0.0017	0.0011	0.0013	0.0018	0.0019	0.0010	
Barium	mg/L	T	0.94	0.61	0.47	0.37	0.31	0.42	0.43	0.49	0.53	0.42	0.45	0.46	0.82 D	0.48	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000059 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.00019 J	< 0.00018 U	0.00025	0.00029	0.00021 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00022 J	0.00026	0.00021 J	0.00022 J	< 0.00020 U	
Cobalt	mg/L	T	0.0013	0.0013	0.0016	0.0016	0.0014	0.0013	0.0014 J+	0.0011	0.00095	0.0011	0.0011	0.00089	0.0010	0.00069	
Fluoride	mg/L	T	0.55	0.26	0.24	0.26	0.21	0.21	0.22 D	0.23 D	0.23 D	0.25 D	0.27 D	0.29 D	0.12 D	0.22 D	
Lead	mg/L	T	0.0023	0.0016	0.0016	0.0016	0.0028	0.0023	0.0028 J+	0.0023	0.0018	0.0013	0.0014	0.0020	0.0017	0.0018	
Lithium	mg/L	T	0.074	0.065	0.049	0.055	0.060	0.062	0.083	0.079	0.071 D	0.029 D	0.053	0.064	0.058 D	0.035	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0041	0.0039	0.0041	0.0038	0.0036	0.0048	0.0048 J+	0.0051	0.0047	0.0045	0.0033	0.0048	0.0058	0.0052	
Radium 226 and 228	pCi/L	T	1.47	0.822 J+	< 0.499 U	< 0.536 U	0.591	< 0.59 U	< 0.467 U	1.08	< 0.581 U	< 0.894 U	1.31	< 0.58 U	1	--	
Radium-226	pCi/L	T	< 0.153 U	0.198	0.134	0.161	< 0.166 U	0.193	< 0.122 U	0.118	< 0.19 U	0.195	< 0.141 U	0.152	0.227	--	
Radium-228	pCi/L	T	1.32	0.624 J+	< 0.499 U	< 0.536 U	0.541	< 0.59 U	< 0.467 U	0.958	< 0.581 U	< 0.894 U	1.18	< 0.58 U	0.775	--	
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00013 J	0.00011 J+	0.00010 J	0.00011 J	0.00026 J	0.00013 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.00011 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	40	42	33	37	44	42	37 D	37	38 D	33	43	34 D	38	26	
Michigan CCR Part 115																	
Copper	mg/L	T	0.00034	0.00023 J	0.00023 J	< 0.00020 U	0.00024 J	0.00029	0.00036 B	0.00053	0.00025	0.00040	0.00034	0.00053	0.00082	< 0.00020 U	
Iron	mg/L	T	21	19	18	19	21	22	18	16	20 D	18 D	22	16	18 D	14	
Nickel	mg/L	T	0.0091	0.0091	0.0095	0.0099	0.0092	0.0094	0.0098	0.0078	0.0066	0.0061	0.0077	0.0080	0.0067	0.0045	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	
Zinc	mg/L	T	0.071	0.024	0.028	0.029	0.060	0.028	0.030	0.025	0.024	0.016	0.024	0.020	0.056	0.015	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	540	470	470	460	520	540	470	460	560 D	460	570	470	500	430	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	57	53	52	56	57	62	47	48 D	53 D	45 D	55	41	41 D	36	
Potassium	mg/L	T	13	13	11	12	13	12	13	13	12 D	8.5 D	11	10	9.1 D	6.9	
Sodium	mg/L	T	65	59	57	56	63	79	67	57 D	61 D	48 D	80	57	47 D	43	
Total Alkalinity	mg/L	T	540	470	470	460	520	540	470	460	560 D	460	570	470	500	430	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
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J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-27															
			Background Monitoring								AM/DM Round							
			11/30/2022	1/5/2023	2/7/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/13/2024	4/8/2024	7/18/2024	10/17/2024	2/27/2025		
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample		
Unit:			Unit 3A/B & 1/2															
Groundwater			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction																
Field Parameters																		
Conductivity	mS/cm	N	2.46	2.01	1.651	1.047	1.04	1.65	2.5	2.57	2.99	1.65	1.06	2.79	3.47	2.32		
Dissolved Oxygen	mg/L	N	1.35	0.17	0.24	0.93	0.07	0.19	0.04	0.23	0.05	1.64	0.12	0.03	0.24	1.5		
Oxidation Reduction Potential	mV	N	-87.3	-137.6	-79.1	-134.3	-52.1	-80.9	-89	-104.5	-191.3	-62.8	-140.2	-129.9	-80.3	155.8		
pH	su	N	6.86	6.92	6.81	6.95	6.81	6.77	6.86	6.78	6.77	6.93	6.99	6.87	6.66	6.79		
Temperature	deg c	N	8.7	6.7	5	4.5	7.2	11.7	16.5	20.8	15.2	5.6	7.5	19.6	16.9	4		
Turbidity	NTU	N	0.02	0.73	1.33	0.02	4.08	3.32	3.55	8.15	9.71	3.01	2.31	7.9	9.44	6.08		
Appendix III																		
Boron	mg/L	T	0.31	0.17	0.16	0.14	0.14	0.20	0.45 J+	0.44	0.32 D	0.16 D	0.18	0.44	0.50 D	0.21		
Calcium	mg/L	T	200	180	180	180	100	130	180 D	150 D	190 D	160 D	130 D	170 D	170 D	210 D		
Chloride	mg/L	T	120	84	69	60	38	52	110 D	100 D	110 D	44 D	17 D	89 D	120 D	97 D		
Fluoride	mg/L	T	0.37	0.29	0.31	0.41	0.42	0.35	0.36 D	0.41 D	0.43 D	0.40 D	0.71 D	0.48 D	0.23 D	0.25 D		
Sulfate (as SO4)	mg/L	T	6.8	41	58	47	14	1.8 J	0.56 JD	3.0 D	2.4 JD	72 D	41 D	2.3 JD	1.4 JD	40 D		
Total Dissolved Solids	mg/L	T	920	710	790	620	460	590	790 D	690 D	870 D	1300 D	560 D	890 D	910 D	900 D		
Appendix IV																		
Antimony	mg/L	T	0.00013 J	0.000075 J	0.000099 J	0.000060 J	0.00028	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00010 J	0.00012 J		
Arsenic	mg/L	T	0.00086	0.00070	0.00069	0.00069	0.00095	0.00096	0.0010 J+	0.0012	0.0011	0.00082	0.0012	0.0011	0.0012	0.00070		
Barium	mg/L	T	0.21	0.17	0.16	0.12	0.074	0.15	0.25	0.25	0.31	0.16	0.10	0.28	0.32	0.25		
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U		
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U		
Chromium, Total	mg/L	T	0.018	0.016	0.0097	0.0099	0.0083	0.025	0.027	0.034	0.028	0.0090	0.0073	0.033	0.050	0.014		
Cobalt	mg/L	T	0.00063	0.00056	0.00052	0.00043 J	0.00024 J	0.00063	0.00092 J+	0.00083	0.00075	0.00037 J	0.00016 J	0.00074	0.0011	0.00046 J		
Fluoride	mg/L	T	0.37	0.29	0.31	0.41	0.42	0.35	0.36 D	0.41 D	0.43 D	0.40 D	0.71 D	0.48 D	0.23 D	0.25 D		
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U		
Lithium	mg/L	T	0.0086	0.0088	0.0067	0.0073	0.0075	0.0073	0.017 D	0.0093	0.0099	0.0050	0.0058	0.0099	0.0092	0.0058		
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U		
Molybdenum	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00041 J	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.00026 J	< 0.00025 U		
Radium 226 and 228	pCi/L	T	0.823	< 0.639 UJ	< 0.729 U	< 0.889 U	1.15	1.61	0.84	1.76	< 0.857 U	< 0.774 U	1.25	0.876	< 1.24 U	--		
Radium-226	pCi/L	T	0.367	0.23	< 0.127 U	< 0.197 U	< 0.171 U	< 0.325 U	0.458	0.477	0.464	0.22	0.549	0.429	0.34	--		
Radium-228	pCi/L	T	< 0.679 U	< 0.639 UJ	< 0.729 U	< 0.889 U	1.03	1.47 J	< 0.578 U	1.28	< 0.857 U	< 0.774 U	< 0.85 U	< 0.709 U	< 1.24 UG	--		
Selenium	mg/L	T	0.00023 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00016 J	0.00021 J+	0.00022 J	0.0002 J	0.00053	0.00014 J	0.00027 J	0.00032 J	0.00024 J		
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U		
Total Suspended Solids	mg/L	T	34	27	22	14	5.0	11	19 D	11	22	23	9.0	6.0	26	20		
Michigan CCR Part 115																		
Copper	mg/L	T	0.00030	< 0.00020 U	0.0016	< 0.00020 U	0.00022 J	0.00032	< 0.00020 U	0.00023 J	0.00024 J	< 0.00020 U	0.00039	< 0.00020 U	0.00022 J	< 0.00020 U		
Iron	mg/L	T	13	11	11	8.3	5.5	7.6	9.4	8.0	11 D	9.9 D	7.7	8.4	8.1 D	11		
Nickel	mg/L	T	0.00077 J	0.0010 J	0.0010 J	0.00077 J	< 0.00065 U	0.00087 J	0.00067 J	0.00075 J	< 0.00065 U	0.00076 J	0.00073 J	< 0.00065 U	0.00094 J	0.00081 J		
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U		
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00082 J	0.00093 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.0018	0.0024	0.0010 J		
Zinc	mg/L	T	0.0096	< 0.0012 U	0.0016	< 0.0012 U	0.0079	0.0013	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.012	< 0.0012 U		
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	1200	880	800	590	480	770	1100 D	1100	1400 D	790 D	520	1300	1700	1100		
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U		
Magnesium	mg/L	T	45	45	47	44	26	31	33	35 D	40 D	55 D	39	45	44 D	52		
Potassium	mg/L	T	7.6	7.3	6.2	5.8	4.1	6.5	11	12	11 D	4.9 D	3.5	9.8	11 D	8.0		
Sodium	mg/L	T	92	68	59	61	41	52	75	80 D	82 D	59 D	41	72	82 D	99 D		
Total Alkalinity	mg/L	T	1200	880	800	590	480	770	1100 D	1100	1400 D	790 D	520	1300	1700	1100		

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
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All metals were analyzed as total unless otherwise indicated.

Qualifiers:
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J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-28				
			AM/DM Round				
			4/7/2024	7/18/2024	10/17/2024	2/27/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	
			Unit 1/2				
			Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction					
Field Parameters							
Conductivity	mS/cm	N	1.18	1.46	1.22	1.83	
Dissolved Oxygen	mg/L	N	0.08	0.01	0.17	0.16	
Oxidation Reduction Potential	mV	N	-118.7	-158.8	-133.4	-32	
pH	su	N	7.02	6.94	6.84	6.9	
Temperature	deg c	N	8.1	16.8	16	6.3	
Turbidity	NTU	N	3.17	4.11	0.02	6.58	
Appendix III							
Boron	mg/L	T	2.2	6.1	3.8 D	2.7	
Calcium	mg/L	T	170 D	160 D	180 D	230 D	
Chloride	mg/L	T	18 D	67 D	170 D	240 D	
Fluoride	mg/L	T	0.90 D	1.5 D	1.4 D	0.94 D	
Sulfate (as SO4)	mg/L	T	11 D	< 2.2 UD	< 1.1 UD	41 D	
Total Dissolved Solids	mg/L	T	610 D	690 D	920 D	1100 D	
Appendix IV							
Antimony	mg/L	T	0.00028	0.00016 J	0.00020 J	0.00073	
Arsenic	mg/L	T	0.0011	0.0014	0.0019	0.0020	
Barium	mg/L	T	0.34	0.70	0.76	0.75	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000091 J	
Chromium, Total	mg/L	T	0.017	0.0092	0.015	0.0075	
Cobalt	mg/L	T	0.00064	0.00046 J	0.00041 J	0.0020	
Fluoride	mg/L	T	0.90 D	1.5 D	1.4 D	0.94 D	
Lead	mg/L	T	0.0011	0.0013	0.00088	0.0052	
Lithium	mg/L	T	0.050	0.15	0.12 D	0.084	
Mercury	mg/L	T	0.00024	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.00087 J	0.00054 J	0.0020	0.0027	
Radium 226 and 228	pCi/L	T	0.909	1.29	1.27	--	
Radium-226	pCi/L	T	0.282	0.273	< 0.218 U	--	
Radium-228	pCi/L	T	< 0.842 U	1.02	1.06	--	
Selenium	mg/L	T	0.00032 J	0.00024 J	0.00028 J	0.00029 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	44 D	86	120	75	
Michigan CCR Part 115							
Copper	mg/L	T	0.00052	0.00090	0.00037	0.0013	
Iron	mg/L	T	30	37	47 D	43	
Nickel	mg/L	T	0.0036	0.00072 J	0.0024	0.0073	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	0.00063 J	0.00074 J	0.00080 J	< 0.00062 U	
Zinc	mg/L	T	0.0090	0.0067	0.031	0.083	
Additional Parameters							
Bicarbonate Alkalinity	mg/L	T	560	600	590	550	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	27	27	33 D	39	
Potassium	mg/L	T	12	13	14 D	13	
Sodium	mg/L	T	29	66	51 D	80 D	
Total Alkalinity	mg/L	T	560	600	590	550	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
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J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-30														
			Background Monitoring								AM/DM Round						
			11/30/2022	1/3/2023	2/6/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/7/2024	7/18/2024	10/16/2024	2/25/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	2.26	3.18	3.025	2.273	2.73	2.66	2.85	2.67	2.21	2.68	2.61	2.93	3.06	5.15	
Dissolved Oxygen	mg/L	N	0.12	0.39	0.04	0.35	0.29	0.05	0.01	0.12	0.41	0.14	0.03	0	0.06	0.01	
Oxidation Reduction Potential	mV	N	-55.7	-281.2	-134.9	-148.7	-151.8	-86.8	-105.6	-92.7	-301.7	-73.8	-71.3	-198.6	-313.1	-21.4	
pH	su	N	7.07	6.48	7.16	7.25	7.17	7.16	7.21	6.94	7.05	7.18	7.15	7.06	7.02	6.82	
Temperature	deg c	N	10.1	7.2	6.4	4.8	6.6	10.7	13.6	17	15	6.2	7.3	16.9	16	5.7	
Turbidity	NTU	N	0.02	0.02	1.21	0.02	0.02	0.5	0.02	0.02	0.02	0.02	0.02	0.92	0.02	1.15	
Appendix III																	
Boron	mg/L	T	2.2	1.7	2.1	3.5	1.7	1.9	1.9 J+	1.8	2.1 D	1.9 D	1.6	1.9	1.9 D	1.4	
Calcium	mg/L	T	470	460 E	480	960	430	430	460 D	400 D	390 D	440 D	470 D	500 D	440 D	700 D	
Chloride	mg/L	T	190	190	190	140	120	98	110 D	98 D	97 D	110 DJ+	82 D	190 D	430 D	1200 D	
Fluoride	mg/L	T	1.0	1.4	1.0	1.2	1.1	1.1	0.91 D	1.1 D	1.2 D	1.1 D	1.2 D	1.1 D	1.2 D	0.57 D	
Sulfate (as SO4)	mg/L	T	780	1000	830	940	970	850	940 D	860 D	610 D	820 D	980 D	960 D	440 D	980 D	
Total Dissolved Solids	mg/L	T	2200 J	2400	2000	2300	2200	2100	2800 J	2300 D	1800	2100 D	2200 D	2300 D	2200 D	4000 D	
Appendix IV																	
Antimony	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00040 J	< 0.00050 U	< 0.00050 UD	< 0.00010 U	< 0.0001 U	< 0.00050 UD	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00065 JD	
Arsenic	mg/L	T	0.00046 J	0.00070	< 0.00050 U	0.00039 J	< 0.00010 U	0.00012 J	0.00027 J+	0.00043 J	0.00063	0.00021 J-	0.00044 J	0.00058	0.00097	0.0022 JD	
Barium	mg/L	T	0.10	0.089	0.10	0.045	0.047	0.058	0.066 D	0.048	0.058	0.067 J-	0.051	0.041	0.079	0.098 D	
Beryllium	mg/L	T	< 0.000052 U	0.000053 J	< 0.00026 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.00011 J+	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 UD	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.00006 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 UD	
Chromium, Total	mg/L	T	0.014	0.012	0.0087	0.010	0.0058	0.0052	0.012	0.013	0.0081	0.0049 J-	0.0075	0.010	0.012	0.0031 D	
Cobalt	mg/L	T	0.00091	0.0044	0.00096 J	0.0028	0.0011	0.00054	0.0013 J+	0.0011	0.00053	0.0011	0.0015	0.00077	0.00047 J	0.046 D	
Fluoride	mg/L	T	1.0	1.4	1.0	1.2	1.1	1.1	0.91 D	1.1 D	1.2 D	1.1 D	1.2 D	1.1 D	1.2 D	0.57 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00050 UD	< 0.0001 U	< 0.00050 UJD	< 0.00010 U	< 0.00050 UD	0.0017 JD	< 0.00050 UD	
Lithium	mg/L	T	0.13	0.15	0.12	0.27	0.11	0.11	0.12 D	0.14	0.12 D	0.10 D	0.11	0.13	0.12 D	0.16	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00039	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	< 0.00062 U	0.0036	< 0.0031 U	0.0017	< 0.0031 U	0.00032 J	0.00082 J+	0.0011 J	0.00061 J	0.00073 J+	0.0013	0.00089 J	0.00051 J	0.019 D	
Radium 226 and 228	pCi/L	T	< 0.873 UJ	0.445 J	< 0.624 UJ	< 0.659 U	0.875	< 0.783 U	0.586 J+	0.911	< 0.526 U	0.793 J+	< 0.559 U	0.68	< 1.12 U	--	
Radium-226	pCi/L	T	< 0.238 UJ	0.139 J	< 0.0915 UJ	< 0.2 U	< 0.141 U	< 0.194 U	0.0986 J+	< 0.163 UJ	< 0.228 U	< 0.117 UJ	0.133	0.199	< 0.219 U	--	
Radium-228	pCi/L	T	< 0.873 UJ	< 0.443 UJ	< 0.624 UJ	< 0.659 U	0.844	< 0.783 U	< 0.566 UJ	0.82	< 0.526 U	0.721 J+	< 0.559 U	< 0.537 U	< 1.12 UG	--	
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	0.00011 J+	0.00012 J	0.00013 J	0.00039 J-	0.00010 J	0.00017 J	0.00024 J	< 0.00050 UD	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.00038 UD	< 0.00038 UD	
Total Suspended Solids	mg/L	T	4.0	11	< 4.0 UJ	5.0	6.0	4.0	< 4.0 UD	5.0	4 D	< 4.0 U	5.1 D	18	8.0	8.0	
Michigan CCR Part 115																	
Copper	mg/L	T	< 0.00020 U	0.00037 J+	< 0.0010 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00054	0.00024 J-	0.00028	< 0.00020 U	< 0.00020 U	< 0.0010 UD	
Iron	mg/L	T	0.87	3.6	0.99	8.8	4.1	2.4	2.9	2.9	1.4 D	2.0 D	4.9	5.9	2.1 D	2.5	
Nickel	mg/L	T	0.00080 J	0.0045	< 0.0032 U	0.0041	0.0018	0.00070 J	0.0021	0.0011 J	< 0.00065 U	0.0018 J-	0.0019	0.0017	< 0.00065 U	0.11 D	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 UD	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 UJ	< 0.00062 U	< 0.0031 UD	
Zinc	mg/L	T	0.0053	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.0049	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 UJ	< 0.0012 U	< 0.0012 U	0.0033	0.10 D	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	930	760	880	660	630	640	< 0.16 U	690	780 D	690 D	570	630	770	550	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	110	120	120	250	120	110	120 D	100 D	95 D	110 D	120 D	110 D	99 D	190 D	
Potassium	mg/L	T	12	15	16	17	12	9.6	11	13	10 D	10 D	8.9	11	11 D	18	
Sodium	mg/L	T	120	110	120	220	98	95	95 D	88 D	82 D	89 D	73	82	120 D	330 D	
Total Alkalinity	mg/L	T	930	760	880	660	630	640	< 0.16 U	690	780 D	690 D	570	630	770	550	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
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UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-31																
			Background Monitoring								AM/DM Round								
			12/1/2022	1/4/2023	2/7/2023	3/14/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/8/2024	7/17/2024	7/18/2024	10/15/2024	2/25/2025		
Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample				
Unit 1/2																			
Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater			
Constituent	Unit	Fraction																	
Field Parameters																			
Conductivity	mS/cm	N	1.35	1.4	1.327	1.23	1.28	1.21	1.24	1.41	1.23	1.1	1.26	1.32	-99999	1.26	1.15		
Dissolved Oxygen	mg/L	N	1.65	0.09	0.21	0.11	0.11	0.09	1.39	0.05	0.15	0.05	0.04	0.23	-99999	0.66	0.2		
Oxidation Reduction Potential	mV	N	-150	-262.2	-129.3	-214.9	-274.4	-220	-113.9	-55.8	-82.4	149.7	-130.1	-117.3	-99999	-73	-41.8		
pH	su	N	7.84	7.7	7.85	7.76	7.87	7.85	8	7.78	7.67	7.8	8.01	7.74	-99999	7.82	8.02		
Temperature	deg c	N	8.7	7.6	6.3	4	6.5	13.2	14.4	17.8	14.9	7	10.2	19	-99999	14.1	6.3		
Turbidity	NTU	N	2.61	0.02	1.27	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-99999	0.02	0.97		
Appendix III																			
Boron	mg/L	T	4.8	3.8	4.2	4.0	3.6	4.5	5.4 J+	4.8	5.1 D	4.4 D	4.5	5.4	--	5.8 D	4.5		
Calcium	mg/L	T	180	190	170	200	170	160	130 D	150 D	170 D	170 D	200 D	170 D	--	150 D	150 D		
Chloride	mg/L	T	120	100	110	97	94	92	110 D	110 D	100 D	99 DJ+	87 D	--	100 D	110 D	110 D		
Fluoride	mg/L	T	4.6	4.9	4.7	4.6	5.1	5.2	4.7 D	5.1 D	4.6 D	4.5 D	4.7 D	--	4.7 D	4.5 D	4.1 D		
Sulfate (as SO4)	mg/L	T	180	250	200	250	250	160	120 D	100 D	72 D	150 D	170 D	--	120 D	45 D	71 D		
Total Dissolved Solids	mg/L	T	850	940 J	780	860	810	760	760 D	860 D	730 D	810 D	810 D	--	780 D	730 D	740		
Appendix IV																			
Antimony	mg/L	T	0.000069 J	< 0.000050 U	0.000080 J	0.00012 J	0.00013 J	< 0.00010 U	< 0.00010 U	0.00012 J	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00038	--	0.00039	0.00069		
Arsenic	mg/L	T	0.0018	0.0013	0.0012	0.0010	0.0011	0.0014	0.0016 J+	0.0016	0.0012	0.0010	0.0012	0.0012	--	0.00095	0.0012		
Barium	mg/L	T	0.21	0.14	0.19	0.15	0.12	0.13	0.23	0.16	0.16	0.13	0.13	0.18	--	0.29	0.20		
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000054 J	< 0.000052 U	< 0.000052 U	--	0.000096 J	< 0.000052 U		
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.000084 J	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U		
Chromium, Total	mg/L	T	0.0021	0.0018	0.0024	0.0019	0.0019	0.0029	0.0023	0.0023	0.0025	0.0022	0.0017	0.0029	--	0.0041	0.0020		
Cobalt	mg/L	T	0.00015 J	0.00015 J	0.00020 J	0.00018 J	0.00016 J	0.00021 J	0.00018 J+	0.00018 J	0.00013 J	0.00028 J	< 0.00010 U	0.00010 J	--	0.00036 J	< 0.00010 U		
Fluoride	mg/L	T	4.6	4.9	4.7	4.6	5.1	5.2	4.7 D	5.1 D	4.6 D	4.5 D	4.7 D	--	4.7 D	4.5 D	4.1 D		
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00031 J	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00025 J	--	< 0.00010 U	< 0.00010 U		
Lithium	mg/L	T	0.052	0.048	0.052	0.054	0.046	0.053	0.056 D	0.054	0.049	0.039 D	0.039	0.052	--	0.063 D	0.043		
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U		
Molybdenum	mg/L	T	0.0021	0.0013	0.0013	0.0011 J	0.0011 J	0.0012	0.0018 J+	0.0011 J	0.0013	0.0011 J	0.00052 J	0.00083 J	--	0.0011 J	0.0015		
Radium 226 and 228	pCi/L	T	0.753	< 0.641 U	0.717	< 0.725 U	0.592	1.14	0.58	1.23	< 0.497 U	1.01	0.754	0.991	--	< 0.736 U	--		
Radium-226	pCi/L	T	0.187	0.203	0.187	< 0.189 U	0.254	0.184	0.27	0.262 J+	< 0.208 U	0.171	0.345	0.274	--	0.27	--		
Radium-228	pCi/L	T	0.566	< 0.641 U	0.53	< 0.725 U	< 0.527 U	0.959	< 0.489 U	0.97	< 0.497 U	0.842	< 0.502 U	0.717	--	< 0.736 U	--		
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00011 J	0.00012 J+	0.00015 J	0.00014 J	0.00074	0.00013 J	0.00016 J	--	0.00010 J	< 0.00010 U		
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.000088 J	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U		
Total Suspended Solids	mg/L	T	2.0 J	4.0	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	1.0 J	< 4 U	< 4.0 UD	< 3.9 UD	--	< 4.0 U	< 4.0 UD	< 4.0 U		
Michigan CCR Part 115																			
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00023 J	0.00044	0.00029	--	0.00031	< 0.00020 U		
Iron	mg/L	T	2.5	1.4	1.5	1.1	0.77	1.2	0.92	0.21	0.13	0.19	0.12	0.14	--	0.23	0.22		
Nickel	mg/L	T	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.0023	< 0.00065 U	0.0021	--	0.0027	0.023		
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.000050 U		
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00064 J	--	0.00083 J	< 0.00062 U		
Zinc	mg/L	T	0.0082	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.010	0.0014	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	--	0.010	0.013		
Additional Parameters																			
Bicarbonate Alkalinity	mg/L	T	410	340	350	320	290	320	340	410	440 D	340 D	350	--	410	450	410		
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U		
Magnesium	mg/L	T	37	36	38	42	36	33	34	38 D	35 D	36 D	38	38	--	38 D	37		
Potassium	mg/L	T	9.9	11	11	11	10	9.9	12	12	11 D	9.6 D	10	12	--	11 D	9.6		
Sodium	mg/L	T	60	46	51	48	50	53	64	56 D	56 D	54 D	53	54	--	61 D	57		
Total Alkalinity	mg/L	T	410	340	350	320	290	320	340	410	440 D	340 D	350	--	410	450	410		

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-32														
			Background Monitoring								AM/DM Round						
			11/30/2022	1/4/2023	2/8/2023	3/14/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/7/2024	7/17/2024	10/16/2024	2/25/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B & 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	1.29	1.29	1.258	1.175	1.29	1.2	1.05	0.99	1.14	0.96	1.21	0.99	1.07	1.07	
Dissolved Oxygen	mg/L	N	0.07	0.08	0.08	0.1	0.1	0.33	0.12	0.13	0.29	0.09	0.04	0.18	0.11	0.01	
Oxidation Reduction Potential	mV	N	-184.5	-222.8	-184.7	-188.5	-199.5	-221.7	-209.8	-141.4	-186.3	138.7	-178.6	-196	-197.4	-122.6	
pH	su	N	7.69	7.5	7.57	7.53	7.67	7.75	7.65	7.52	7.53	7.64	7.63	7.58	7.59	7.67	
Temperature	deg c	N	10.2	8.3	6.6	6.3	7.4	11.1	13	15.9	14.9	7	8.1	15.6	15.8	7.3	
Turbidity	NTU	N	0.02	0.02	2.17	0.02	0.02	0.02	0.02	0.02	0.02	4.52	0.02	0.02	0.02	5.04	
Appendix III																	
Boron	mg/L	T	3.8	3.0	3.0	2.9	2.6	3.1	3.9 J+	3.7	5 D	3.0 D	3.1	4.0	5.6 D	3.0	
Calcium	mg/L	T	200	180	190	220	190	190	150 D	130 D	150 D	180 D	190 D	140 D	160 D	160 D	
Chloride	mg/L	T	47	50	50	50	45	42	41 D	44 D	47 D	39 DJ+	38 D	42 D	50 D	50 D	
Fluoride	mg/L	T	1.5	1.5	1.4	1.6	1.4	1.5	1.4 D	1.6 D	1.8 D	1.5 D	1.6 D	1.5 D	1.9 D	1.2 D	
Sulfate (as SO4)	mg/L	T	100	110	54	170	190	140	48 D	17 D	17 D	83 D	130 D	9.5 D	5.9 D	27 D	
Total Dissolved Solids	mg/L	T	790	700	730	770	800	790	600 D	550 D	640 D	680 D	770 D	560 D	580 D	650 D	
Appendix IV																	
Antimony	mg/L	T	0.000067 J	< 0.000050 U	< 0.000050 U	0.000072 J	0.00014 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	0.00070	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	
Arsenic	mg/L	T	0.00061	0.00045 J	0.00052 J	0.00047 J	0.00044 J	0.00055	0.00058 J+	0.00062	0.00058	0.0024	0.00046 J	0.00059	0.00064	0.00039 J	
Barium	mg/L	T	0.62	0.60	0.57	0.41	0.29	0.34	0.37	0.41	0.85	0.059	0.57	0.63	1.3 D	0.97 D	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000070 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.00019 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.00046	0.00065	0.00057	0.00055	0.00039	0.00038	0.00032	0.00031	0.00031	0.0030	0.00038	0.00036	0.00050	0.00033	
Cobalt	mg/L	T	0.00034 J	0.00036 J	0.00039 J	0.00041 J	0.00031 J	0.00037 J	0.00068 J+	0.00058	0.00038 J	0.0019	0.00021 J	0.00046 J	0.00058	0.00022 J	
Fluoride	mg/L	T	1.5	1.5	1.4	1.6	1.4	1.5	1.4 D	1.6 D	1.8 D	1.5 D	1.6 D	1.5 D	1.9 D	1.2 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00012 J	0.00014 J+	< 0.00010 U	< 0.0001 U	0.00038 J	< 0.00010 U	< 0.00010 U	0.00042 J	< 0.00010 U	
Lithium	mg/L	T	0.15	0.14	0.12	0.11	0.094	0.10	0.13 D	0.14	0.19 D	0.10 D	0.098	0.13	0.20 D	0.12	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0019	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0051	0.0043	0.0038	0.0032	0.0034	0.0045	0.0047 J+	0.0046	0.0045	0.0073	0.0034	0.0038	0.0045	0.0025	
Radium 226 and 228	pCi/L	T	0.614	< 0.497 U	< 0.601 U	< 0.732 U	0.877	0.847	< 0.607 U	0.985	< 0.589 U	< 0.53 U	< 0.545 U	< 0.57 U	0.732	--	
Radium-226	pCi/L	T	< 0.184 U	0.219	0.152	< 0.195 U	< 0.164 U	0.206	< 0.0916 U	0.403 J+	< 0.18 U	< 0.156 U	< 0.137 U	0.172	0.172	--	
Radium-228	pCi/L	T	0.492	< 0.497 U	< 0.601 U	< 0.732 U	0.773	0.641	< 0.607 U	< 0.848 U	< 0.589 U	< 0.53 U	< 0.545 U	< 0.57 U	< 0.603 U	--	
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.0010	0.00013 J	< 0.00010 U	0.00014 J	< 0.00010 U	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	42	43	39	40	39	31	29 D	11	23	32 D	34 D	23 D	20	29	
Michigan CCR Part 115																	
Copper	mg/L	T	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00020 J	< 0.00020 U	< 0.00020 U	0.00041	0.016	< 0.00020 U	0.00031	0.00035	0.00023 J	
Iron	mg/L	T	20	18	18	19	18	17	15	11	11 D	17 D	16	12	13 D	14	
Nickel	mg/L	T	0.0013	0.0016	0.0012	0.0012	0.00096 J	0.00088 J	0.0012	0.00086 J	0.00077 J	0.023	0.00095 J	0.00082 J	0.0010 J	0.00068 J	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	
Zinc	mg/L	T	0.031	0.0022	0.0026	0.0025	0.030	0.0037	0.0026	0.0030	0.0035	0.0049	0.0024	0.0024	0.058	0.068	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	560	490	500	450	440	430	440	440	520 D	440 D	470	440	510	480	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	38	34	35	37	34	34	28	28 D	30 D	32 D	33	26	31 D	29	
Potassium	mg/L	T	13	13	12	11	9.8	9.7	12	13	13 D	9.1 D	9.2	11	13 D	9.2	
Sodium	mg/L	T	36	29	29	30	27	30	33	32 D	35 D	30 D	28	30	36 D	29	
Total Alkalinity	mg/L	T	560	490	500	450	440	430	440	440	520 D	440 D	470	440	510	480	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-33														
			Background Monitoring								AM/DM Round						
			12/1/2022	1/5/2023	2/8/2023	3/15/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/12/2024	4/9/2024	7/18/2024	10/17/2024	2/3/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B & 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	1.1	0.99	0.949	0.859	0.91	0.92	0.901	0.98	1	0.78	0.85	1.21	1.11	0.716	
Dissolved Oxygen	mg/L	N	0.81	1.02	0.75	0.2	0.23	0.06	0.05	0.01	0.02	0.4	0.23	0.01	0.1	0.49	
Oxidation Reduction Potential	mV	N	-28.5	-72.8	-61.2	-37.4	-63.6	-86.2	-106.6	-121.9	-107.1	-11.1	-43	-185.9	-16.9	42	
pH	su	N	7.12	6.49	7.14	6.96	7.04	7.02	7.03	6.98	6.86	7.27	7.16	6.95	6.86	7.25	
Temperature	deg c	N	8.3	4.8	2.4	3.6	8.8	10.7	13.7	17.2	15.8	7.1	7.5	16.4	16.4	6.8	
Turbidity	NTU	N	0.02	0.02	1.17	0.02	3.44	0.55	0.02	1.07	3.25	3.07	4.13	1.49	2.13	1.72	
Appendix III																	
Boron	mg/L	T	0.18	0.091	0.086	0.067	0.082	0.085	0.11 J+	0.12	0.16 D	0.078 D	0.065	0.10	0.15 D	0.056	
Calcium	mg/L	T	200	170	170	190	150	160	150 D	150 D	180 D	150 D	170 D	200 D	180 D	120 D	
Chloride	mg/L	T	58	51	50	39	27	17	20 D	23 D	45 D	35 DJ+	20 D	36 D	64 D	35 D	
Fluoride	mg/L	T	0.29	0.24	0.21 J	0.23	0.28	0.25	0.26 D	0.27 D	0.24 D	0.27 D	< 0.28 UD	0.28 D	0.26 D	0.29 D	
Sulfate (as SO4)	mg/L	T	100	58	65	42	23	1.9 J	4.3 D	1.6 JD	69 D	20 D	17 D	3.7 JD	98 D	22 D	
Total Dissolved Solids	mg/L	T	750 J	630	680	590	580	600	600 D	570 D	690 D	550 D	600	740 D	760 D	500 D	
Appendix IV																	
Antimony	mg/L	T	0.00098	0.00088	0.00079	0.00059	0.0012	0.00017 J	0.00020 J	0.00015 J	0.00048	< 0.00050 UD	0.00068	0.00035	0.0013	0.0011	
Arsenic	mg/L	T	0.0031	0.0014	0.0016	0.0017	0.0040	0.0038	0.0032 J+	0.0027	0.0027	0.0012	0.0030	0.021	0.0011	0.0012	
Barium	mg/L	T	0.084	0.086	0.092	0.076	0.073	0.095	0.088	0.098	0.09	0.44 D	0.063	0.16	0.087	0.043	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	0.000049 J	0.00010 J	0.00014 J	0.00015 J	< 0.00016 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	0.00023 J	< 0.00038 UD	0.00023 J	< 0.000075 U	0.00010 J	< 0.000075 UJ	
Chromium, Total	mg/L	T	0.0021	0.0028	0.0029	0.0027	0.0029	0.0039	0.0050	0.0059	0.0029	0.019	0.0032	0.011	0.0024	0.0035	
Cobalt	mg/L	T	0.00075	0.00049 J	0.00082	0.0017	0.0020 J	0.00083	0.00039 J+	0.00041 J	0.00053	0.0012	0.0022	0.00058	0.00064	0.00040 J	
Fluoride	mg/L	T	0.29	0.24	0.21 J	0.23	0.28	0.25	0.26 D	0.27 D	0.24 D	0.27 D	< 0.28 UD	0.28 D	0.26 D	0.29 D	
Lead	mg/L	T	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.0011 U	0.00026 J	0.00015 J+	0.00015 J	0.00037 J	0.0014 JD	0.00043 J	0.00013 J	0.00018 J	< 0.00010 U	
Lithium	mg/L	T	0.0051	0.0069	0.0043	0.0047	0.0061	0.0052	< 0.0094 UD	0.0041	0.0054	0.0028	0.0046	0.0069	0.0053	0.0030	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0047	0.0037	0.0031	0.0031	0.0060 J	0.0026	0.00068 J+	0.00052 J	0.0032	0.00027 J	0.0030	0.0014	0.0067	0.0057	
Radium 226 and 228	pCi/L	T	0.825	< 0.587 U	0.949	< 0.852 U	< 0.815 U	1.61	0.828	1.15	< 0.621 U	< 0.892 U	< 0.846 U	0.915	< 0.964 U	--	
Radium-226	pCi/L	T	< 0.267 U	< 0.14 U	< 0.125 U	< 0.204 U	< 0.232 U	< 0.256 U	0.154	0.276 J+	< 0.282 UJ	< 0.162 U	< 0.328 U	< 0.144 U	< 0.226 U	--	
Radium-228	pCi/L	T	0.794	< 0.587 U	0.833	< 0.852 U	< 0.815 U	1.48 J	< 0.768 U	0.875	< 0.621 UJ	< 0.892 U	< 0.846 U	0.773	< 0.964 U	--	
Selenium	mg/L	T	0.00089	0.00076	0.00055	0.00038 J	< 0.0011 U	0.00033 J	0.00033 J+	0.00029 J	0.00059	0.00054	0.00053	0.00058	0.0010	0.00098	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	2.0 J	5.0	10	1.0 J	9.0	17	21	22	10	6.0	5.0	80	< 4.0 U	< 4.0 UD	
Michigan CCR Part 115																	
Copper	mg/L	T	0.0079	0.016	0.016	0.020	0.0067	0.0017	0.0011 B	0.00079	0.0032	0.00099	0.013	0.00085	0.015	0.032	
Iron	mg/L	T	1.2	2.5	2.8	2.5	4.6	7.4	7.7	8.7	4.4 D	1.1 D	1.2	29	0.067	0.078	
Nickel	mg/L	T	0.020	0.016	0.017	0.019	0.023	0.014	0.0081	0.0049	0.0077	0.0036	0.026	0.014	0.014	0.018	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.00011	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	0.00065 J	0.00079 J	< 0.00062 U	< 0.00062 U	0.00097 J	0.0033	0.0014	0.00088 J	
Zinc	mg/L	T	0.0071	0.0036	0.0050	0.0053	0.012	0.0014	< 0.0012 U	< 0.0012 U	0.018	0.0035	0.0072	0.0017	0.011	0.0059	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	460	430	400	390	440	480	440	480	420 D	330 D	430 D	550	390	320	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	22	19	18	17	16	18	16	16	19 D	16 D	19	21	17 D	12	
Potassium	mg/L	T	3.8	5.4	4.6	4.1	4.0	4.1	4.4	5.1	4.9	3.4 D	3.1	5.7	4.6 D	2.4	
Sodium	mg/L	T	38	25	24	26	22	22	23	22	30 D	25 D	17	21	26 D	19	
Total Alkalinity	mg/L	T	460	430	400	390	440	480	440	480	420 D	330 D	430 D	550	390	320	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-34														
			Background Monitoring								AM/DM Round						
			12/1/2022	1/5/2023	2/8/2023	3/15/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/12/2024	4/9/2024	7/18/2024	10/17/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Unit 3A/B & 1/2														
Sample Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction															
Field Parameters																	
Conductivity	mS/cm	N	2.14	1.07	1.96	1.49	1.86	1.89	2.05	2.05	1.93	1.82	1.8	2	1.9	1.83	
Dissolved Oxygen	mg/L	N	0.87	1.19	0.29	0.45	1.05	2.73	0.09	0.97	0.7	1.92	0.05	0.33	0.82	0.14	
Oxidation Reduction Potential	mV	N	-120.5	-104.4	-119.7	-95	-63.4	-100.5	-113.8	-124.6	-163.1	-98.9	-72.8	-139	-122.7	-30.7	
pH	su	N	6.65	7.66	6.78	6.68	6.53	6.6	6.75	6.69	6.62	6.63	6.61	6.7	6.49	6.59	
Temperature	deg c	N	12.9	4.9	9.4	7.8	8	10.3	12.4	14.6	14.8	9.8	8.9	14.2	15.2	9	
Turbidity	NTU	N	4.96	0.02	5.58	2.11	5.87	0.02	0.02	3.15	1.77	4.76	1.39	1.6	2.76	3.11	
Appendix III																	
Boron	mg/L	T	3.2	2.7	1.9 B	1.8	1.6	2.5	4.0 J+	3.6	4.1 D	1.9 D	1.8 D	2.9	2.2 D	2.1	
Calcium	mg/L	T	220	190	220	210	210	210	220 D	190 D	220 D	210 D	230 D	220 D	200 D	220 D	
Chloride	mg/L	T	33	27	24	23	23	22	23 D	24 D	25 D	20 DJ+	16 D	22 D	20 D	19 D	
Fluoride	mg/L	T	0.35	0.20	0.23	0.24	0.21	0.23	0.26 D	0.29 D	0.28 D	0.21 D	0.22 D	0.31 D	0.096 JD	0.22 D	
Sulfate (as SO4)	mg/L	T	2.5 J	1.9 J	< 0.41 U	0.87 J	0.56 J	< 0.41 U	< 0.41 UD	< 0.41 UD	< 0.41 UD	< 0.41 UD	< 1.1 UD	< 2.2 UD	< 1.1 UD	< 2.2 UD	
Total Dissolved Solids	mg/L	T	820	750	800	790	700	760	820 D	770 D	800 D	730 D	730	760 D	710 D	720 D	
Appendix IV																	
Antimony	mg/L	T	0.00023 J	0.00011 J	0.000095 J	0.00013 J	0.00091 J	0.00010 J	0.00016 J	0.00015 J	0.00014 J	< 0.00050 UD	0.00013 J	0.00029	0.00021 J	0.00019 J	
Arsenic	mg/L	T	0.0016	0.0010	0.00088	0.00090	0.00089 J	0.0010	0.0013 J+	0.0012	0.0013	0.00017 J-	0.00085	0.0010	0.0010	0.00072	
Barium	mg/L	T	0.54	0.54	0.58	0.50	0.17	0.49	0.53	0.49	0.52	0.066 DJ-	0.46	0.52	0.48	0.47	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 U	0.000059 J	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	0.000036 J	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.024	0.022	0.025	0.029	< 0.00088 U	0.027	0.034	0.028	0.019	0.0050 J+	0.026	0.023	0.023	0.018	
Cobalt	mg/L	T	0.0015	0.0013	0.0013	0.0013	< 0.00050 U	0.0014	0.0018 J+	0.0016	0.0013	0.00061	0.0011	0.0010	0.0012	0.00090	
Fluoride	mg/L	T	0.35	0.20	0.23	0.24	0.21	0.23	0.26 D	0.29 D	0.28 D	0.21 D	0.22 D	0.31 D	0.096 JD	0.22 D	
Lead	mg/L	T	0.0069	0.0016	0.00059	0.00094	< 0.0011 U	0.00074	0.00087 J+	0.00091	0.00063	< 0.00050 UJ	0.00038 J	0.00047 J	0.00049 J	0.00041 J	
Lithium	mg/L	T	0.077	0.086	0.053	0.012	0.046	0.065	0.088 D	0.10	0.099 D	0.043 D	0.057	0.079	0.065 D	0.057	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0018	0.00081 J	< 0.00062 U	< 0.00062 U	0.0079	0.0018	0.00030 J+	< 0.00025 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	0.00041 J	< 0.00025 U	
Radium 226 and 228	pCi/L	T	2.02	1.15	1.28	1.34	1.99	1.81	2.79	1.24	2.4	1.86 J+	2.2	1.76	2.07	--	
Radium-226	pCi/L	T	0.57	0.534	0.654	0.558	0.396	0.561	0.357	0.637 J+	0.699	0.527	0.602	0.427	0.369	--	
Radium-228	pCi/L	T	1.45	< 0.849 U	< 0.918 U	0.78	1.59	1.25 J	2.44	< 0.862 U	1.7	1.33 J+	1.59 G	1.33	1.7 G	--	
Selenium	mg/L	T	0.00034 J	0.00025 J	0.00027 J	0.00023 J	< 0.0011 U	0.00029 J	0.00030 J+	0.00027 J	0.00031 J	0.00039 J-	0.00028 J	0.00028 J	0.00030 J	0.00026 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	110	52	83	44	160	160	170 D	130	150	120	160	150	140	97	
Michigan CCR Part 115																	
Copper	mg/L	T	0.0034	0.00075	0.00033	0.0085	< 0.0010 U	0.00069	0.00045 B	0.00043	0.00045	0.00024 J	0.00040	0.00058	0.00055	0.00029	
Iron	mg/L	T	73	70	83	78	75	77	77	64 D	70 D	72 D	76	65	59 D	64	
Nickel	mg/L	T	0.0016	0.0013	0.0012	0.0013	< 0.0032 U	0.0016	0.0020	0.0018	0.0015	0.00089 J	0.011	0.019	0.028	0.041	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	0.00065 J	0.00069 J	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00090 J	0.0011 J	0.0012	0.00078 J	
Zinc	mg/L	T	0.031	0.0019	0.0023	0.0023	0.020	0.0015	0.0018	0.0017	0.0021	< 0.0012 UJ	0.0014	0.0033	0.021	0.0036	
Additional Parameters																	
Bicarbonate Alkalinity	mg/L	T	1100	950	920	890	880	950	970 D	970	1000 D	830 D	950 D	960	920	900	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	30	23	22	21	20	24	27	26 D	29 D	23 D	25	25	22 D	23	
Potassium	mg/L	T	11	13	9.5	8.5	8.4	8.9	12	13	13 D	8.8 D	8.0	10	8.6 D	8.3	
Sodium	mg/L	T	34	30	28	22	23	30	38	33 D	38 D	26 D	25	29	25 D	26	
Total Alkalinity	mg/L	T	1100	950	920	890	880	950	970 D	970	1000 D	830 D	950 D	960	920	900	

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J+ Same as J, and the reported concentration is potentially biased high.

J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-36				
			AM/DM Round				
			4/8/2024	7/17/2024	10/16/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	
			Unit 1/2				
			Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction					
Field Parameters							
Conductivity	mS/cm	N	0.658	0.66	0.7	0.614	
Dissolved Oxygen	mg/L	N	0.08	0.02	0.01	0.06	
Oxidation Reduction Potential	mV	N	-207.1	-331.7	-230.1	130.6	
pH	su	N	10.42	9.89	8.79	9.54	
Temperature	deg c	N	8.4	19.1	18.3	5.4	
Turbidity	NTU	N	5.41	2.01	1.11	2.82	
Appendix III							
Boron	mg/L	T	0.28	0.41	0.61 D	0.25	
Calcium	mg/L	T	67	61	61 D	56	
Chloride	mg/L	T	34 D	39 D	38 D	34 D	
Fluoride	mg/L	T	0.61 D	0.65 D	0.92 D	0.61 D	
Sulfate (as SO4)	mg/L	T	5.7 JD	21 D	10 D	10 D	
Total Dissolved Solids	mg/L	T	330 D	460 D	390 D	400 D	
Appendix IV							
Antimony	mg/L	T	0.00076	0.0015	0.00075	0.0029	
Arsenic	mg/L	T	0.029	0.029	0.013	0.012	
Barium	mg/L	T	0.15	0.17	0.20	0.13	
Beryllium	mg/L	T	0.000059 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	0.00032	0.00082	0.00019 J	0.00046	
Chromium, Total	mg/L	T	0.0013	0.0031	0.0018	0.0021	
Cobalt	mg/L	T	0.00027 J	0.00027 J	0.00018 J	0.00028 J	
Fluoride	mg/L	T	0.61 D	0.65 D	0.92 D	0.61 D	
Lead	mg/L	T	0.025	0.051	0.012	0.032	
Lithium	mg/L	T	0.0057	0.0089	0.012	0.0042	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.019	0.042	0.034	0.037	
Radium 226 and 228	pCi/L	T	< 0.861 U	< 1.4 UJ	1.08	--	
Radium-226	pCi/L	T	0.467	< 0.207 UJ	< 0.194 U	--	
Radium-228	pCi/L	T	< 0.861 U	< 1.4 UJ	0.959	--	
Selenium	mg/L	T	0.00060	0.00072	0.00065	0.00064	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	38	4.0 J+	< 4.0 U	5.0	
Michigan CCR Part 115							
Copper	mg/L	T	0.0077	0.019	0.0086	0.011	
Iron	mg/L	T	0.40	0.35	0.44	0.39	
Nickel	mg/L	T	0.011	0.0084	0.0054	0.0066	
Silver	mg/L	T	0.00021	0.00057	0.00011	0.00023	
Vanadium	mg/L	T	0.0024	0.0052	0.0025	0.0052	
Zinc	mg/L	T	0.0088	0.020	0.014	0.013	
Additional Parameters							
Bicarbonate Alkalinity	mg/L	T	78	160	270	200	
Carbonate Alkalinity	mg/L	T	120	110	34	97	
Magnesium	mg/L	T	6.9	7.5	9.3 D	6.1	
Potassium	mg/L	T	52	45	30 D	46	
Sodium	mg/L	T	61	65	57 D	62	
Total Alkalinity	mg/L	T	200	260	310	300	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-37				
			AM/DM Round				
			4/8/2024	7/17/2024	10/15/2024	2/3/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	
			Unit 1/2				
			Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction					
Field Parameters							
Conductivity	mS/cm	N	1.16	1.24	1	1.09	
Dissolved Oxygen	mg/L	N	1.04	0.04	0.01	0.89	
Oxidation Reduction Potential	mV	N	-19	65	6.7	74.1	
pH	su	N	7.47	7.15	7.21	7.16	
Temperature	deg c	N	9	17.8	18.1	7.9	
Turbidity	NTU	N	0.02	0.02	7.46	0.02	
Appendix III							
Boron	mg/L	T	5.2	3.9	1.9 D	5.9	
Calcium	mg/L	T	160 D	160 D	120 D	160 D	
Chloride	mg/L	T	22 D	29 D	40 D	15 D	
Fluoride	mg/L	T	0.63 D	0.39 D	0.50 D	0.40 D	
Sulfate (as SO4)	mg/L	T	210 D	260 D	110 D	270 D	
Total Dissolved Solids	mg/L	T	790 D	840 D	630 D	780 D	
Appendix IV							
Antimony	mg/L	T	0.00064	0.00040	0.00023 J	0.00011 J	
Arsenic	mg/L	T	0.00055	0.00046 J	0.00046 J	0.00074	
Barium	mg/L	T	0.040	0.046	0.044	0.074	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000076 J	
Cadmium	mg/L	T	0.00012 J	0.00013 J	0.00011 J	< 0.000075 U	
Chromium, Total	mg/L	T	0.00039	0.00054	0.00027	0.00028	
Cobalt	mg/L	T	0.00075	0.00053	0.00051 J	0.00076	
Fluoride	mg/L	T	0.63 D	0.39 D	0.50 D	0.40 D	
Lead	mg/L	T	0.00017 J	0.00013 J	< 0.00010 U	< 0.00010 U	
Lithium	mg/L	T	0.020	0.022	0.019	0.0093	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.015	0.0075	0.0064	0.012	
Radium 226 and 228	pCi/L	T	< 0.569 U	< 0.764 U	< 0.96 UJ	--	
Radium-226	pCi/L	T	< 0.142 U	0.104	< 0.226 UJ	--	
Radium-228	pCi/L	T	< 0.569 U	< 0.764 U	< 0.96 UJ	--	
Selenium	mg/L	T	0.0046	0.0030	0.0018	0.00065	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	< 4.0 UD	3.9 JD	< 4.0 UD	< 4.0 U	
Michigan CCR Part 115							
Copper	mg/L	T	0.013	0.014	0.014	0.0067	
Iron	mg/L	T	0.16	< 0.026 U	0.026 J	2.1	
Nickel	mg/L	T	0.0046	0.0052	0.0039	0.0029	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	0.00017 J+	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00067 J	
Zinc	mg/L	T	0.017	0.017	0.011	0.015	
Additional Parameters							
Bicarbonate Alkalinity	mg/L	T	310	340	350	340	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	13	12	9.8 D	12	
Potassium	mg/L	T	18	20	18 D	13	
Sodium	mg/L	T	100 D	98 D	57 D	68	
Total Alkalinity	mg/L	T	310	340	350	340	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			MW-38				
			AM/DM Round				
			4/8/2024	7/17/2024	10/16/2024	2/26/2025	
			Field Sample	Field Sample	Field Sample	Field Sample	
			Unit 3A/B				
			Groundwater	Groundwater	Groundwater	Groundwater	
Constituent	Unit	Fraction					
Field Parameters							
Conductivity	mS/cm	N	1.27	1.18	1.3	0.91	
Dissolved Oxygen	mg/L	N	0.4	0.17	0.13	0.33	
Oxidation Reduction Potential	mV	N	-207.4	-25.1	-69.8	-5.7	
pH	su	N	10	9.23	9	9.12	
Temperature	deg c	N	11.7	20.6	16.9	6	
Turbidity	NTU	N	7.83	0.02	0.02	8.46	
Appendix III							
Boron	mg/L	T	1.6 D	2.4	3.0 D	1.2	
Calcium	mg/L	T	150 D	96 D	110 D	74	
Chloride	mg/L	T	51 D	57 D	58 D	42 D	
Fluoride	mg/L	T	0.79 D	1.0 D	1.8 D	0.83 D	
Sulfate (as SO4)	mg/L	T	280 D	170 D	210 D	130 D	
Total Dissolved Solids	mg/L	T	840 D	850 D	980 D	350 D	
Appendix IV							
Antimony	mg/L	T	0.00068	0.0017	0.0011	0.0018	
Arsenic	mg/L	T	0.0050	0.0071	0.0033	0.0057	
Barium	mg/L	T	0.16	0.12	0.17	0.070	
Beryllium	mg/L	T	< 0.000052 U	0.000067 J	0.000090 J	< 0.000052 U	
Cadmium	mg/L	T	0.000096 J	0.00037	0.00015 J	0.00049	
Chromium, Total	mg/L	T	0.0040	0.016	0.0072	0.013	
Cobalt	mg/L	T	0.00053	0.00071	0.00055	0.00079	
Fluoride	mg/L	T	0.79 D	1.0 D	1.8 D	0.83 D	
Lead	mg/L	T	0.015	0.086	0.023	0.060	
Lithium	mg/L	T	0.12	0.098	0.12 D	0.094	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0097	0.014	0.0095	0.023	
Radium 226 and 228	pCi/L	T	1.21	< 1.72 U	2.12	--	
Radium-226	pCi/L	T	0.492	< 0.314 U	0.278	--	
Radium-228	pCi/L	T	< 1.08 UG	< 1.72 UG	1.84	--	
Selenium	mg/L	T	0.00073	0.00095	0.00059	0.0010	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	160 D	53	< 4.0 U	45 D	
Michigan CCR Part 115							
Copper	mg/L	T	0.0031	0.020	0.0063	0.018	
Iron	mg/L	T	0.39	1.0	0.51	1.4	
Nickel	mg/L	T	0.0053	0.0096	0.0067	0.0083	
Silver	mg/L	T	< 0.000050 U	0.00019	0.000065	0.00015	
Vanadium	mg/L	T	0.0066	0.010	0.0053	0.015	
Zinc	mg/L	T	0.0066	0.020	0.015	0.021	
Additional Parameters							
Bicarbonate Alkalinity	mg/L	T	270	300	380	230	
Carbonate Alkalinity	mg/L	T	12	50	60	75	
Magnesium	mg/L	T	18	13	18 D	7.4	
Potassium	mg/L	T	91 D	86 D	88 D	82	
Sodium	mg/L	T	97 D	100 D	100 D	96 D	
Total Alkalinity	mg/L	T	280	350	440	300	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
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J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		SG-01	
Compliance Phase:		AM/DM Round	
Sample Date:		10/23/2023	
Sample Type:		Field Sample	
Unit:		GOLDER DATA	
Sample Matrix:		Surface Water	
Constituent	Unit	Fraction	
(None)			
NO_SAMPLE	mg/L	N	< 0

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

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J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			SG-02													
			Background Monitoring								AM/DM Round					
			12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/10/2024	7/17/2024	10/17/2024	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Surface Water													
Sample Matrix:			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
Constituent	Unit	Fraction														
(None)																
NO_SAMPLE	mg/L	N	--	--	< 0	--	--	--	--	--	--	--	--	--	--	
Field Parameters																
Conductivity	mS/cm	N	1.42	1	--	0.898	0.93	1.03	1.56	1.66	1.47	0.84	0.99	1.57	1.45	
Dissolved Oxygen	mg/L	N	5.28	9.57	--	4.27	10.32	7.83	8.9	9.54	8.29	14.38	9.31	7.69	8.44	
Oxidation Reduction Potential	mV	N	147.3	-25.2	--	131.1	13.3	16.1	25.6	69.3	-44.9	135.6	-32.5	-39.7	78.5	
pH	su	N	8.02	8.38	--	8	8.23	9.14	8.52	8.7	8.15	8.01	8.38	7.86	7.67	
Temperature	deg c	N	2.8	3.5	--	2.7	8.9	26.6	26.2	29.6	17.5	3.6	14.8	28.2	12.4	
Turbidity	NTU	N	1.62	0.02	--	1.2	2.41	6.62	4.2	3.26	6.09	0.46	3.59	1.34	7.03	
Appendix III																
Boron	mg/L	T	4.0	2.2	--	2.1	2.0	2.8	5.6 J+	6.9	7 D	3.5 D	3.1 D	8.1	7.3 D	
Calcium	mg/L	T	210	140	--	140	130	150	210 D	170 D	180 D	140 D	140 D	170 D	160 D	
Chloride	mg/L	T	75	46	--	41	37	40	86 D	120 D	99 D	52 D	36 D	120 D	110 D	
Fluoride	mg/L	T	2.6	1.9	--	2.3	2.6	3.3	4.6 D	5.1 D	3.6 D	2.2 D	2.1 D	4.5 D	3.7 D	
Sulfate (as SO4)	mg/L	T	620	360	--	350	400	430	620 D	640 D	530 D	380 D	340 D	540 D	490 D	
Total Dissolved Solids	mg/L	T	1100	660	--	580	680	740	1200 D	1400 D	1100	690 D	690	1100 D	1100 D	
Appendix IV																
Antimony	mg/L	T	0.00051	0.00043	--	0.00066	0.00058 J	0.0012	0.00085	0.0011	0.00061	0.00038	0.00088	0.0011	0.00076	
Arsenic	mg/L	T	0.0019	0.0012	--	0.0018	0.0017 J	0.0032	0.0037	0.0091	0.0023	0.0012	0.0017	0.0086	0.0020	
Barium	mg/L	T	0.049	0.033	--	0.034	0.22	0.080	0.13	0.11	0.06	0.037	0.045	0.12	0.060	
Beryllium	mg/L	T	0.000060 J	< 0.000052 U	--	< 0.000052 U	< 0.00027 U	< 0.000052 U	0.00029	0.00014 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000057 J	< 0.000052 U	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00017 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.00038	0.00024 J	--	0.00057	< 0.00091 U	0.00046	0.00091	0.00080	0.00036	0.00025	0.00045	0.00064	0.00034	
Cobalt	mg/L	T	0.00021 J	0.00022 J	--	0.00028 J	< 0.00052 U	0.00035 J	0.00040 J	0.00057	0.00015 J	0.00012 J	0.00017 J	0.00034 J	< 0.00010 U	
Fluoride	mg/L	T	2.6	1.9	--	2.3	2.6	3.3	4.6 D	5.1 D	3.6 D	2.2 D	2.1 D	4.5 D	3.7 D	
Lead	mg/L	T	0.0013	0.00081	--	0.0012	0.0020 J	0.0011	0.00050 J	0.0012	0.00064	0.00061	0.0011	0.00083	0.00043 J	
Lithium	mg/L	T	0.046	0.032	--	0.035	0.038	0.053	0.067	0.085	0.058	0.042 D	0.043	0.086	0.072	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00022	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0069	0.0060	--	0.011	0.0062 J	0.016	0.0072	0.012	0.0081	0.0069	0.013	0.011	0.0097	
Radium 226 and 228	pCi/L	T	< 0.342 U	0.712 J+	--	< 0.551 U	1.42	1.49	1.44	1.28	< 0.532 U	< 1 U	0.722	< 0.916 U	< 0.7 U	
Radium-226	pCi/L	T	0.151	< 0.121 U	--	< 0.177 U	0.266	0.229	0.456	0.329	< 0.265 U	< 0.18 U	0.206	0.466	0.175	
Radium-228	pCi/L	T	< 0.342 U	0.627 J+	--	< 0.551 U	1.15	1.26	0.981	0.954	< 0.532 U	< 1 U	< 0.601 U	< 0.916 U	< 0.7 U	
Selenium	mg/L	T	0.00073	0.00059	--	0.0010	< 0.0011 U	0.0013	0.0013	0.0014	0.0008	0.0018	0.0014	0.0015	0.00078	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00039 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	< 4.0 U	3.0 J	--	1.0 J	0.99 J	1.0 J	30	14	< 3.9 UD	< 4.0 U	< 4.0 U	17	< 4.0 U	
Michigan CCR Part 115																
Copper	mg/L	T	0.0010	0.00085	--	0.011	0.0011 J	0.0014	0.0012	0.0010	0.00047	0.00089	0.0016	0.00083	0.00061	
Iron	mg/L	T	0.20	0.15	--	0.20	0.23	0.16	0.27	0.48	0.28	0.14	0.16	0.48	0.21	
Nickel	mg/L	T	0.0023	0.0020	--	0.0023	< 0.0034 U	0.0027	0.0036	0.0040	0.0034	0.0020	0.0024	0.0037	0.0035	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.00026 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0032 U	0.0019	0.0014	0.0052	0.00072 J	< 0.00062 U	0.0014	0.0055	0.0020	
Zinc	mg/L	T	0.0041	0.0031	--	0.0029	0.029	0.0014	0.0024	0.0028	0.005	0.0013	0.0020	0.0024	0.0033	
Additional Parameters																
Bicarbonate Alkalinity	mg/L	T	96	76	--	62	71	35	73	65	130 D	93	79	94	110	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	19	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	48	31	--	28	28	33	53	63 D	57 D	37 D	34	61	56 D	
Potassium	mg/L	T	13	9.1	--	8.0	7.3	6.8	18	21 D	16 D	9.1 D	8.2	20	13 D	
Sodium	mg/L	T	40	24	--	22	21	27	52	62 D	58 D	31 D	28	66	60 D	
Total Alkalinity	mg/L	T	96	76	--	62	71	35	73	83	130 D	93	79	94	110	

Notes:
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mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
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All metals were analyzed as total unless otherwise indicated.

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UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

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Sample Location: Compliance Phase:			SG-03										
			Background Monitoring								AM/DM Round		
Sample Date:			12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	
Sample Type:			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Surface Water										
Sample Matrix:			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
Constituent	Unit	Fraction											
(None)													
NO SAMPLE	mg/L	N	--	--	< 0	--	--	--	--	--	--	--	
Field Parameters													
Conductivity	mS/cm	N	1.45	1	--	0.896	1.15	1.05	1.53	1.66	1.49	0.84	
Dissolved Oxygen	mg/L	N	5.23	9.58	--	3.98	9.77	7.37	8.71	9.56	8.26	14.36	
Oxidation Reduction Potential	mV	N	138.3	-32.4	--	-50.1	8	10	17	71.4	-42.1	135.5	
pH	su	N	8	8.42	--	7.82	6.24	8.91	8.63	8.67	8.14	8.03	
Temperature	deg c	N	2	3.3	--	0.9	8.3	28.6	25.9	29.5	17.7	3.6	
Turbidity	NTU	N	1.2	0.36	--	0.02	4.45	38.1	5.36	4.27	5.56	0.44	
Appendix III													
Boron	mg/L	T	3.9	2.0	--	2.1	2.0	2.9	5.8 J+	7.5	6.9 D	3.4 D	
Calcium	mg/L	T	200	120	--	150	140	160	220 D	180 D	180 D	140 D	
Chloride	mg/L	T	72	42	--	43	37	41	86 D	120 D	100 D	53 D	
Fluoride	mg/L	T	2.5	1.8	--	2.5	2.7	3.6	4.6 D	5.0 D	3.6 D	2.2 D	
Sulfate (as SO4)	mg/L	T	600	350	--	350	400	450	620 D	640 D	550 D	370 D	
Total Dissolved Solids	mg/L	T	1100	480	--	630	660	740	1200 D	1400 D	1100	1400 D	
Boron	mg/L	D	--	--	--	--	--	2.7	--	--	--	--	
Calcium	mg/L	D	--	--	--	--	--	150	--	--	--	--	
Appendix IV													
Antimony	mg/L	T	0.00049	0.00038	--	0.00067	0.0010 J	0.0013	0.00088	0.0012	0.00063	0.00050	
Arsenic	mg/L	T	0.0018	0.0011	--	0.0020	0.0016 J	0.0041	0.0040	0.0094	0.0024	0.0012	
Barium	mg/L	T	0.049	0.031	--	0.036	0.027	0.097	0.13	0.13	0.061	0.036	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	--	0.000078 J	< 0.000026 U	0.00056	0.00040	0.000091 J	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	--	0.000038 J	< 0.00016 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	0.00043	0.00025	--	0.00092	< 0.00088 U	0.0025	0.0012	0.00069	0.00049	0.00032	
Cobalt	mg/L	T	0.00017 J	0.00017 J	--	0.00033 J	0.00050 J	0.00058	0.00043 J	0.00055	0.0003 J	0.00011 J	
Fluoride	mg/L	T	2.5	1.8	--	2.5	2.7	3.6	4.6 D	5.0 D	3.6 D	2.2 D	
Lead	mg/L	T	0.0012	0.00060	--	0.0020	< 0.0011 U	0.0033	0.00076	0.00091	0.00066	0.00059	
Lithium	mg/L	T	0.046	0.028	--	0.0056	0.037	0.051	0.067	0.090	0.059	0.031 D	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.0066	0.0052	--	0.010	0.0097	0.020	0.0069	0.013	0.0083	0.0066	
Radium 226 and 228	pCi/L	T	< 0.443 U	< 0.506 U	--	< 0.531 U	1.21	< 0.658 U	< 0.653 U	0.969	0.594	< 0.661 U	
Radium-226	pCi/L	T	0.14	0.129	--	< 0.193 U	0.199	0.363	0.353	0.253	< 0.236 U	< 0.139 U	
Radium-228	pCi/L	T	< 0.443 U	< 0.506 U	--	< 0.531 U	1.01	< 0.658 U	< 0.653 U	< 0.842 U	< 0.58 U	< 0.661 U	
Selenium	mg/L	T	0.00070	0.00056	--	0.0010	0.0021 J	0.0018	0.0012	0.0016	0.00081	0.0018	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	9.0	1.0 J	--	6.0	3.0 J	33	34	16	< 4 U	< 4.0 U	
Antimony	mg/L	D	--	--	--	--	--	< 0.000038 U	--	--	--	--	
Arsenic	mg/L	D	--	--	--	--	--	0.0035	--	--	--	--	
Barium	mg/L	D	--	--	--	--	--	0.073	--	--	--	--	
Beryllium	mg/L	D	--	--	--	--	--	< 0.000078 U	--	--	--	--	
Cadmium	mg/L	D	--	--	--	--	--	< 0.000018 U	--	--	--	--	
Chromium, Total	mg/L	D	--	--	--	--	--	< 0.00012 U	--	--	--	--	
Cobalt	mg/L	D	--	--	--	--	--	< 0.000028 U	--	--	--	--	
Lead	mg/L	D	--	--	--	--	--	< 0.00012 U	--	--	--	--	
Lithium	mg/L	D	--	--	--	--	--	0.039	--	--	--	--	
Molybdenum	mg/L	D	--	--	--	--	--	0.018	--	--	--	--	
Selenium	mg/L	D	--	--	--	--	--	0.0020	--	--	--	--	
Thallium	mg/L	D	--	--	--	--	--	< 0.000015 U	--	--	--	--	
Michigan CCR Part 115													
Copper	mg/L	T	0.00093	0.00067	--	0.016	< 0.0010 U	0.0030	0.0013	0.0010	0.00051	0.00083	
Iron	mg/L	T	0.18	0.15	--	0.35	0.20	0.66	0.31	0.48	0.29	0.13	
Nickel	mg/L	T	0.0022	0.0017	--	0.0026	0.0032 J	0.0039	0.0036	0.0039	0.0035	0.0019	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.000025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	--	0.00092 J	< 0.0031 U	0.0049	0.0020	0.0053	0.0007 J	< 0.00062 U	
Zinc	mg/L	T	0.0042	0.0037	--	0.0047	< 0.0059 U	0.0060	0.0029	0.0024	0.0069	0.0012	
Copper	mg/L	D	--	--	--	--	--	< 0.00012 U	--	--	--	--	
Iron	mg/L	D	--	--	--	--	--	0.10	--	--	--	--	
Nickel	mg/L	D	--	--	--	--	--	< 0.00018 U	--	--	--	--	
Silver	mg/L	D	--	--	--	--	--	< 0.000038 U	--	--	--	--	
Vanadium	mg/L	D	--	--	--	--	--	< 0.00024 U	--	--	--	--	
Zinc	mg/L	D	--	--	--	--	--	< 0.0017 U	--	--	--	--	
Additional Parameters													
Bicarbonate Alkalinity	mg/L	T	110	71	--	73	71	41	73	69	120 D	92	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	16	< 0.31 UD	< 0.16 U	
Magnesium	mg/L	T	47	26	--	30	29	37	56	67 D	57 D	35 D	
Potassium	mg/L	T	13	8.1	--	8.3	7.2	7.1	19	22 D	17 D	8.7 D	
Sodium	mg/L	T	38	20	--	23	21	28	57	66 D	58 D	30 D	
Total Alkalinity	mg/L	T	110	71	--	73	71	41	73	85	120 D	92	
Magnesium	mg/L	D	--	--	--	--	--	34	--	--	--	--	
Potassium	mg/L	D	--	--	--	--	--	6.7	--	--	--	--	
Sodium	mg/L	D	--	--	--	--	--	25	--	--	--	--	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit:			SG-04R												
			Background Monitoring								AM/DM Round				
			12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/8/2024	7/17/2024	10/17/2024
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Sample Matrix:			Surface Water												
Constituent	Unit	Fraction	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
(None)															
NO_SAMPLE	mg/L	N	--	--	< 0	--	--	--	--	--	--	--	--	--	--
Field Parameters															
Conductivity	mS/cm	N	1	1.64	--	1.404	1.96	1.79	2.56	2.56	2.12	1.41	1.64	2.39	2
Dissolved Oxygen	mg/L	N	6.42	9.64	--	10.26	10.46	7.17	6.62	8.21	8.36	11.92	9.24	6.23	9.56
Oxidation Reduction Potential	mV	N	125.3	-34.8	--	-34	91.5	29.9	368	58.7	-33.8	155.6	20.8	-6.5	55.1
pH	su	N	8.03	8.44	--	8.05	8.21	8.3	8.24	8.68	8.36	7.2	8.46	8.74	8.35
Temperature	deg c	N	3.3	4	--	5.9	8.2	25.6	25.9	23.8	17.1	2.7	14.7	27.5	13.1
Turbidity	NTU	N	7.25	1.1	--	3.22	1.04	5.27	10.6	2.28	5.92	8.1	3.75	4.11	8.89
Appendix III															
Boron	mg/L	T	3.0	2.1	--	2.6	2.4	3.2	5.0 J+	5.4	5.4 D	4.5 D	4.4 D	6.8	5.6 D
Calcium	mg/L	T	430	300	--	370	310	390	600 D	580 DE	500 D	340 D	370 D	510 D	390 D
Chloride	mg/L	T	27	22	--	21	20	22	33 D	38 D	35 D	23 D	20 D	38 D	42 D
Fluoride	mg/L	T	2.6	2.0	--	2.3	2.7	3.5	5.0 D	5.3 D	3.7 D	2.3 D	2.7 D	4.2 D	3.7 D
Sulfate (as SO4)	mg/L	T	1200	890	--	750	880	1000	1600 D	1800 D	820 D	890 D	890 D	1500 D	1200 D
Total Dissolved Solids	mg/L	T	1800	1200	--	1200	1400	1600	2500 D	2700 D	2200	1400 D	1400 D	2200 D	1900 D
Appendix IV															
Antimony	mg/L	T	0.00059	0.00052	--	0.00069	0.0011 J	0.00064 J	0.0013 D	0.0011	0.00089	< 0.00050 UD	0.0010	0.00046	0.00052
Arsenic	mg/L	T	0.00099	0.00091	--	0.0016	0.0026 J	0.0012	0.0043	0.0058	0.0017	0.0019	0.0016	0.0028	0.0018
Barium	mg/L	T	0.022	0.019	--	0.023	0.040	0.039	0.040 D	0.029	0.029	0.027 D	0.025	0.024	0.026
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	< 0.00026 U	< 0.000052 U	0.00012 J	0.000066 J	< 0.000052 U	0.000057 J	< 0.000052 U	< 0.000052 U	< 0.000052 U
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	T	0.00019 J	0.00028	--	0.00035	< 0.00088 U	0.00040	0.0010	0.00028	0.00063	0.00060	0.00028	0.00026	< 0.00020 U
Cobalt	mg/L	T	0.00024 J	0.00028 J	--	0.00037 J	< 0.00050 U	0.00032 J	0.0011	0.00083	0.00063	0.00029 J	0.00012 J	0.00020 J	< 0.00010 U
Fluoride	mg/L	T	2.6	2.0	--	2.3	2.7	3.5	5.0 D	5.3 D	3.7 D	2.3 D	2.7 D	4.2 D	3.7 D
Lead	mg/L	T	0.00033 J	0.00027 J	--	0.00047 J	0.0011 J	0.0013 J	0.0025 JD	0.00054 JD	0.00022 J	0.0015 JD	0.00071	< 0.00050 UD	< 0.00010 U
Lithium	mg/L	T	0.044	0.039	--	0.0089	0.043	0.056	0.072	0.084	0.064	0.049 D	0.059	0.091	0.076
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U
Molybdenum	mg/L	T	0.0078	0.0066	--	0.0073	0.010	0.0072	0.013	0.016	0.016	0.0091	0.015	0.013	0.014
Radium 226 and 228	pCi/L	T	< 0.408 U	< 0.497 U	--	< 0.672 U	< 0.809 U	< 0.803 U	1.82	< 0.788 U	< 0.641 U	0.651	< 0.564 U	< 0.892 U	< 0.591 U
Radium-226	pCi/L	T	< 0.11 U	< 0.109 U	--	< 0.167 U	< 0.213 U	0.264	0.233	< 0.133 U	< 0.2 U	0.186	< 0.213 U	0.25	< 0.14 U
Radium-228	pCi/L	T	< 0.408 U	< 0.497 U	--	< 0.672 U	< 0.809 U	< 0.803 U	1.59	< 0.788 U	< 0.641 U	< 0.639 U	< 0.564 U	< 0.892 U	< 0.591 U
Selenium	mg/L	T	0.0015	0.0014	--	0.0016	0.0013 J	0.0012	0.0023	0.0028	0.0024	0.0023	0.0024	0.0022	0.0034
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 UD	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	0.000075 J	< 0.00038 UD	< 0.000075 U
Total Suspended Solids	mg/L	T	5.0	< 4.0 U	--	3.0 J	1.0 J	5.0	23	9.0	< 4 U	14	< 4.0 U	15	7.0
Michigan CCR Part 115															
Copper	mg/L	T	0.00047	0.00048	--	0.012	0.0012	0.00056	0.0018	0.00071	0.00086	0.0013	0.0011	0.00082	0.00063
Iron	mg/L	T	0.055	0.11	--	0.11	0.13	0.19	0.31	0.089	0.05	0.36 D	0.10	0.045 J	0.022 J
Nickel	mg/L	T	0.0025	0.0028	--	0.0027	< 0.0032 U	0.0022	0.0055	0.0041	0.0035	0.0037	0.0038	0.0030	0.0024
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 UD	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0031 U	0.00094 J	0.0041	0.0065	< 0.00062 U	0.00097 J	0.0013	0.0038	0.0013
Zinc	mg/L	T	0.0037	0.0023	--	0.0033	0.0061 J	0.0012	0.0070	0.0019	0.0086	0.0062	0.0020	0.0023	0.0026
Additional Parameters															
Bicarbonate Alkalinity	mg/L	T	110	87	--	98	100	62	50	30	61 D	100	93	42	46
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	13	< 0.31 UD	< 0.16 U	< 0.16 U	0.80 J	< 0.16 U
Magnesium	mg/L	T	41	30	--	33	29	35	53	62 D	57 D	44 D	43	61	55 D
Potassium	mg/L	T	15	10	--	9.8	9.1	10	17	21	12 D	9.1 D	8.9	8.4	8.4 D
Sodium	mg/L	T	24	20	--	21	19	22	39	40 D	34 D	26 D	26	39	34 D
Total Alkalinity	mg/L	T	110	87	--	98	100	62	50	43	61 D	100	93	43	46

Notes:
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mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:			SG-05													
Compliance Phase:			Background Monitoring								AMDM Round					
Sample Date:			12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/8/2024	7/17/2024	10/17/2024	
Sample Type:			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
Unit:			Surface Water													
Sample Matrix:			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
Constituent	Unit	Fraction														
(None)																
NO_SAMPLE	mg/L	N	--	--	< 0	--	--	--	--	--	--	--	--	--	--	--
Field Parameters																
Conductivity	mS/cm	N	0.731	0.98	--	0.742	1.11	0.75	0.61	0.359	0.91	0.75	0.8	0.465	1.06	
Dissolved Oxygen	mg/L	N	6.85	13.1	--	15.74	6.77	7.83	11.25	11.39	11.73	0.59	8.37	7.51	4.59	
Oxidation Reduction Potential	mV	N	142	-44.6	--	6.4	18.3	16.3	153.3	39.2	-28.7	134.6	34.6	-29	57.7	
pH	su	N	7.44	8.02	--	8.28	7.88	8.31	6.73	9.19	7.87	7.67	8.4	9.4	7.51	
Temperature	deg c	N	4.1	4	--	9.8	7.6	27.8	23.4	28.9	19.5	5.2	17.3	26.7	13.8	
Turbidity	NTU	N	9.38	8.02	--	9.83	26.6	6.8	7.84	4.36	29.3	41.6	14.9	2.68	48.3	
Appendix III																
Boron	mg/L	T	0.59	0.60	--	0.48	0.57	0.36	0.46 J+	0.39	0.72 D	0.45 D	0.53	0.34	0.68 D	
Calcium	mg/L	T	140	120	--	120	120	81	34	34	120 D	130 D	99 D	22	140 D	
Chloride	mg/L	T	79	51	--	61	50	54	64 D	29 D	54 D	54 D	37 D	52 D	46 D	
Fluoride	mg/L	T	0.73	0.98	--	0.94	0.69	0.30	0.42 D	0.45 D	0.79 D	0.68 D	0.83 D	0.32 D	0.65 D	
Sulfate (as SO4)	mg/L	T	8.4 J	150	--	38 J	110	43	38 D	11 D	12 D	7.2 D	83 D	13 D	6.0 D	
Total Dissolved Solids	mg/L	T	620	630	--	460	570	400	320 D	210 D	510 D	520 D	440 D	240 D	630 D	
Boron	mg/L	D	--	--	--	--	0.68	--	--	--	--	--	--	--	--	
Calcium	mg/L	D	--	--	--	--	120	--	--	--	--	--	--	--	--	
Appendix IV																
Antimony	mg/L	T	0.00018 J	0.000093 J	--	0.00030	0.0010 J	0.00029	0.0010	0.00044	0.00016 J	0.00011 J	0.00024 J	0.00030	0.00039	
Arsenic	mg/L	T	0.00084	0.00056	--	0.00071	0.0026 J	0.0017	0.0024	0.0013	0.00088	0.0010	0.00094	0.0017	0.0016	
Barium	mg/L	T	0.58	0.23	--	0.35	0.039	0.20	0.11	0.16	0.61	0.50	0.26	0.10	0.63	
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	< 0.00026 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000062 J	
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00016 U	< 0.000075 U	0.00011 J	0.00075	0.000094 J	0.00041	0.00013 J	< 0.000075 U	0.00067	
Chromium, Total	mg/L	T	0.00036	0.00024 J	--	0.00048	< 0.00088 U	0.00035	0.00049	0.0017	0.00039	0.0020	0.00056	0.00043	0.0038	
Cobalt	mg/L	T	0.00037 J	0.00025 J	--	0.00029 J	< 0.00050 U	0.00025 J	0.00032 J	0.00033 J	0.00027 J	0.00046 J	0.00024 J	0.00013 J	0.00085	
Fluoride	mg/L	T	0.73	0.98	--	0.94	0.69	0.30	0.42 D	0.45 D	0.79 D	0.68 D	0.83 D	0.32 D	0.65 D	
Lead	mg/L	T	0.00023 J	0.00038 J	--	0.00045 J	0.0012 J	0.0022	0.0040	0.0095	0.0031	0.011	0.0031	0.0019	0.016	
Lithium	mg/L	T	0.038	0.033	--	0.0045	0.029	0.016	0.022	0.027	0.039	0.016 D	0.023	0.014	0.042 D	
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00017 J	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	0.00077 J	0.0029	--	0.0013	0.0090	0.0083	0.0087	0.0015	0.00085 J	0.00058 J	0.0024	0.0039	0.00078 J	
Radium 226 and 228	pCi/L	T	0.851	< 0.537 U	--	< 0.776 U	0.858	< 0.758 U	< 0.818 U	< 0.82 U	< 0.771 U	< 0.889 U	0.971	< 1.12 U	< 0.773 U	
Radium-226	pCi/L	T	0.308	< 0.122 U	--	< 0.188 U	0.306	< 0.219 U	< 0.154 U	< 0.147 U	< 0.286 U	0.216	< 0.204 U	< 0.17 U	< 0.244 U	
Radium-228	pCi/L	T	0.543	< 0.537 U	--	< 0.776 U	< 0.798 U	< 0.758 U	< 0.818 U	< 0.82 U	< 0.771 U	< 0.889 U	0.845	< 1.12 UG	< 0.773 U	
Selenium	mg/L	T	< 0.00022 U	< 0.00022 U	--	< 0.00022 U	0.0013 J	0.00022 J	0.00038 J	0.00027 J	0.00017 J	0.00054	0.00014 J	0.00027 J	0.00039 J	
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	5.0	7.9	--	8.0	17	6.0	14	73	12	120	8.0	4.0	74	
Antimony	mg/L	D	--	--	--	--	0.00047 J	--	--	--	--	--	--	--	--	
Arsenic	mg/L	D	--	--	--	--	0.00063 J	--	--	--	--	--	--	--	--	
Barium	mg/L	D	--	--	--	--	0.37	--	--	--	--	--	--	--	--	
Beryllium	mg/L	D	--	--	--	--	< 0.00026 U	--	--	--	--	--	--	--	--	
Cadmium	mg/L	D	--	--	--	--	< 0.00016 U	--	--	--	--	--	--	--	--	
Chromium, Total	mg/L	D	--	--	--	--	0.025	--	--	--	--	--	--	--	--	
Cobalt	mg/L	D	--	--	--	--	0.0012 J	--	--	--	--	--	--	--	--	
Lead	mg/L	D	--	--	--	--	< 0.0011 U	--	--	--	--	--	--	--	--	
Lithium	mg/L	D	--	--	--	--	0.032	--	--	--	--	--	--	--	--	
Mercury	mg/L	D	--	--	--	--	< 0.00016 U	--	--	--	--	--	--	--	--	
Molybdenum	mg/L	D	--	--	--	--	< 0.0031 U	--	--	--	--	--	--	--	--	
Selenium	mg/L	D	--	--	--	--	< 0.0011 U	--	--	--	--	--	--	--	--	
Thallium	mg/L	D	--	--	--	--	< 0.00038 U	--	--	--	--	--	--	--	--	
Michigan CCR Part 115																
Copper	mg/L	T	0.00029	0.00036	--	0.0089	0.0011 J	0.00084	0.0028	0.0066	0.0012	0.0063	0.0021	0.0015	0.011	
Iron	mg/L	T	3.0	1.5	--	2.7	3.2	1.1	0.74	1.1	2.9 D	7.2 D	1.9	1.0	7.2 D	
Nickel	mg/L	T	0.0013	0.0015	--	0.0012	< 0.0032 U	0.0026	0.0034	0.0026	0.0012	0.0024	0.0017	0.0020	0.0047	
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	--	0.000053	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0031 U	< 0.00062 U	0.0012	0.00069 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.00090 J	0.0020	
Zinc	mg/L	T	0.030	0.0018	--	0.0022	0.0060 J	0.0024	0.0090	0.019	0.043	0.019	0.0065	0.0033	0.055	
Copper	mg/L	D	--	--	--	--	< 0.0010 U	--	--	--	--	--	--	--	--	
Iron	mg/L	D	--	--	--	--	0.12	--	--	--	--	--	--	--	--	
Nickel	mg/L	D	--	--	--	--	< 0.0032 U	--	--	--	--	--	--	--	--	
Silver	mg/L	D	--	--	--	--	< 0.00025 U	--	--	--	--	--	--	--	--	
Vanadium	mg/L	D	--	--	--	--	< 0.0031 U	--	--	--	--	--	--	--	--	
Zinc	mg/L	D	--	--	--	--	0.043	--	--	--	--	--	--	--	--	
Additional Parameters																
Bicarbonate Alkalinity	mg/L	T	490	270	--	290	290	240	65	96	400 D	400	240	63	490	
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	46	16	< 0.31 UD	< 0.16 U	< 0.16 U	42	< 0.16 U	
Magnesium	mg/L	T	27	23	--	26	26	25	21	12	24 D	26 D	23	19	29 D	
Potassium	mg/L	T	8.1	6.5	--	7.9	6.8	4.3	0.31	0.79	8.5 D	7.9 D	5.1	0.32	7.8 D	
Sodium	mg/L	T	43	30	--	38	34	37	44	21	40 D	43 D	30	30	45 D	
Total Alkalinity	mg/L	T	490	270	--	290	290	240	110	110	400 D	400	240	100	490	
Magnesium	mg/L	D	--	--	--	--	26	--	--	--	--	--	--	--	--	
Potassium	mg/L	D	--	--	--	--	7.4	--	--	--	--	--	--	--	--	
Sodium	mg/L	D	--	--	--	--	34	--	--	--	--	--	--	--	--	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.
J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).
J+ Same as J, and the reported concentration is potentially biased high.
J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location: Compliance Phase: Sample Date: Sample Type: Unit: Sample Matrix:			SG-06											
			Background Monitoring								AM/DM Round			
			12/2/2022	1/5/2023	2/6/2023	3/13/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	7/17/2024	10/17/2024	
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	
			Surface Water											
Constituent	Unit	Fraction	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
(None)														
NO_SAMPLE	mg/L	N	< 0	< 0	< 0	< 0	< 0	< 0	< 0	--	--	--	--	
Field Parameters														
Conductivity	mS/cm	N	--	--	--	--	--	--	--	0.69	0.74	0.55	0.77	
Dissolved Oxygen	mg/L	N	--	--	--	--	--	--	--	4.93	6.01	4.85	7.68	
Oxidation Reduction Potential	mV	N	--	--	--	--	--	--	--	60.2	-40.4	9.8	47.6	
pH	su	N	--	--	--	--	--	--	--	7.37	7.98	7.94	8.2	
Temperature	deg c	N	--	--	--	--	--	--	--	24.3	19.1	26.2	15.1	
Turbidity	NTU	N	--	--	--	--	--	--	--	7.35	4.89	6.72	6.37	
Appendix III														
Boron	mg/L	T	--	--	--	--	--	--	--	0.21	0.24 D	0.22	0.11 D	
Calcium	mg/L	T	--	--	--	--	--	--	--	69 D	82 D	52	70 D	
Chloride	mg/L	T	--	--	--	--	--	--	--	53 D	56 D	52 D	70 D	
Fluoride	mg/L	T	--	--	--	--	--	--	--	0.18 D	0.18 D	0.23 D	0.14 D	
Sulfate (as SO4)	mg/L	T	--	--	--	--	--	--	--	15 D	30 D	12 D	47 D	
Total Dissolved Solids	mg/L	T	--	--	--	--	--	--	--	380 D	410 D	340 D	460 D	
Appendix IV														
Antimony	mg/L	T	--	--	--	--	--	--	--	< 0.00010 U	0.00014 J	< 0.00010 U	0.00018 J	
Arsenic	mg/L	T	--	--	--	--	--	--	--	0.0016	0.0016	0.0038	0.00098	
Barium	mg/L	T	--	--	--	--	--	--	--	0.10	0.092	0.076	0.059	
Beryllium	mg/L	T	--	--	--	--	--	--	--	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	
Cadmium	mg/L	T	--	--	--	--	--	--	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Chromium, Total	mg/L	T	--	--	--	--	--	--	--	0.00088	0.00044	0.00061	0.00051	
Cobalt	mg/L	T	--	--	--	--	--	--	--	0.00019 J	0.00018 J	0.00010 J	0.00023 J	
Fluoride	mg/L	T	--	--	--	--	--	--	--	0.18 D	0.18 D	0.23 D	0.14 D	
Lead	mg/L	T	--	--	--	--	--	--	--	0.00071	0.00053 J	0.00038 J	0.00027 J	
Lithium	mg/L	T	--	--	--	--	--	--	--	0.0061	0.0087	0.0074	0.0062	
Mercury	mg/L	T	--	--	--	--	--	--	--	< 0.00016 U	0.0002	< 0.00016 U	< 0.00016 U	
Molybdenum	mg/L	T	--	--	--	--	--	--	--	0.00039 J	0.0034	0.00077 J	0.0021	
Radium 226 and 228	pCi/L	T	--	--	--	--	--	--	--	< 0.926 U	< 0.838 U	< 1.88 U	1.04	
Radium-226	pCi/L	T	--	--	--	--	--	--	--	< 0.16 U	< 0.288 U	0.296	< 0.181 U	
Radium-228	pCi/L	T	--	--	--	--	--	--	--	< 0.926 U	< 0.838 U	< 1.88 UG	0.912	
Selenium	mg/L	T	--	--	--	--	--	--	--	0.00015 J	0.00012 J	0.00017 J	0.00012 J	
Thallium	mg/L	T	--	--	--	--	--	--	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	
Total Suspended Solids	mg/L	T	--	--	--	--	--	--	--	120	< 4 UD	36	8.0	
Michigan CCR Part 115														
Copper	mg/L	T	--	--	--	--	--	--	--	0.00089	0.00054	0.00078	0.0016	
Iron	mg/L	T	--	--	--	--	--	--	--	0.55	0.23	0.67	0.19	
Nickel	mg/L	T	--	--	--	--	--	--	--	0.00084 J	0.0011 J	0.00082 J	0.0018	
Silver	mg/L	T	--	--	--	--	--	--	--	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	
Vanadium	mg/L	T	--	--	--	--	--	--	--	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00065 J	
Zinc	mg/L	T	--	--	--	--	--	--	--	0.0045	0.008	0.0026	0.0049	
Additional Parameters														
Bicarbonate Alkalinity	mg/L	T	--	--	--	--	--	--	--	230	270 D	180	230	
Carbonate Alkalinity	mg/L	T	--	--	--	--	--	--	--	< 0.16 U	< 0.31 UD	< 0.16 U	< 0.16 U	
Magnesium	mg/L	T	--	--	--	--	--	--	--	21	25 D	21	24 D	
Potassium	mg/L	T	--	--	--	--	--	--	--	0.78	5 D	0.70	4.0 D	
Sodium	mg/L	T	--	--	--	--	--	--	--	29 D	35 D	30	40 D	
Total Alkalinity	mg/L	T	--	--	--	--	--	--	--	230	270 D	180	230	

Notes:
ug/l - micrograms per liter.
mg/l = milligrams per liter.
su - standard pH units (pH is a field parameter)
pCi/L = picocuries per liter.
All metals were analyzed as total unless otherwise indicated.

Qualifiers:
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J- Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix E

Laboratory Reports

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673



231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

February 14, 2025

Ms. Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 25B0046
Client Project City of Grand Haven - Harbor Island

Dear Ms. Reeves:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Jon Mink".

Jon Mink
Senior Project Manager
Enclosures



Wisconsin Accreditation No. FID: 998044080 / TNI EL V1:2016

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SAMPLE SUMMARY

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
25B0046-01	MW-37	Ground Water	AT	02/03/25 12:18	02/04/25 08:50
25B0046-02	PZ-17	Ground Water	AT	02/03/25 14:14	02/04/25 08:50
25B0046-03	MW-33	Ground Water	AT	02/03/25 16:45	02/04/25 08:50
25B0046-04	MWT-33	Ground Water	AT	02/03/25 17:00	02/04/25 08:50

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-01 Date Collected: 02/03/25 12:18 Matrix: Ground Water
Sample ID: MW-37 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T162864

Mercury	<0.00016	mg/L	0.00020	1	02/14/25	ejb	02/14/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T162592

Boron	5.9	mg/L	0.0088	1	02/06/25	cma	02/07/25	jma		0.0051
Calcium	160	mg/L	2.6	10	02/06/25	cma	02/07/25	jma		0.37
Lithium	0.0093	mg/L	0.0025	1	02/06/25	cma	02/07/25	jma	N	0.0019
Magnesium	12	mg/L	0.10	1	02/06/25	cma	02/07/25	jma		0.010
Potassium	13	mg/L	0.25	1	02/06/25	cma	02/07/25	jma		0.036
Sodium	68	mg/L	0.12	1	02/06/25	cma	02/07/25	jma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T162592

Antimony	0.00011	mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh	J	0.00010
Arsenic	0.00074	mg/L	0.00055	1	02/06/25	cma	02/07/25	jlh		0.00010
Barium	0.074	mg/L	0.0025	1	02/06/25	cma	02/07/25	jlh		0.00068
Beryllium	0.000076	mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh	J	0.000052
Cadmium	<0.000075	mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.000075
Chromium	0.00028	mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00020
Cobalt	0.00076	mg/L	0.00052	1	02/06/25	cma	02/07/25	jlh		0.00010
Lead	<0.00010	mg/L	0.00055	1	02/06/25	cma	02/07/25	jlh		0.00010
Molybdenum	0.012	mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.00025
Selenium	0.00065	mg/L	0.00050	1	02/06/25	cma	02/07/25	jlh		0.00010
Thallium	<0.000075	mg/L	0.00038	1	02/06/25	cma	02/07/25	jlh		0.000075

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-01 Date Collected: 02/03/25 12:18 Matrix: Ground Water
Sample ID: MW-37 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T162504

Fluoride	0.40 mg/L	0.20	10	02/04/25	aeo	02/06/25	aeo	N	0.11
Chloride	15 mg/L	1.5	10	02/04/25	aeo	02/06/25	aeo		1.2
Sulfate as SO ₄	270 mg/L	15	25	02/04/25	aeo	02/07/25	aeo		5.5

Analysis Method: SM 2320 B-21

Batch: T162547

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	340 mg/L	5.0	1	02/05/25	ch	02/05/25	ch	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	02/05/25	ch	02/05/25	ch	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	340 mg/L	5.0	1	02/05/25	ch	02/05/25	ch		0.16

Analysis Method: SM 2540 C-20

Batch: T162514

Total Dissolved Solids	780 mg/L	20	2	02/04/25	mr	02/04/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T162510

Total Suspended Solids	<4.0 mg/L	4.0	1	02/04/25	mr	02/04/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T162553

pH	7.43 pH Units		1	02/03/25	mj	02/04/25	mj	PH01	
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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-02 Date Collected: 02/03/25 14:14 Matrix: Ground Water
Sample ID: PZ-17 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T162864

Mercury	<0.00016 mg/L	0.00020	1	02/14/25	ejb	02/14/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T162592

Boron	0.58 mg/L	0.0088	1	02/06/25	cma	02/07/25	jma		0.0051
Calcium	130 mg/L	2.6	10	02/06/25	cma	02/07/25	jma		0.37
Lithium	0.028 mg/L	0.0025	1	02/06/25	cma	02/07/25	jma	N	0.0019
Magnesium	24 mg/L	0.10	1	02/06/25	cma	02/07/25	jma		0.010
Potassium	12 mg/L	0.25	1	02/06/25	cma	02/07/25	jma		0.036
Sodium	49 mg/L	0.12	1	02/06/25	cma	02/07/25	jma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T162592

Antimony	<0.00010 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00010
Arsenic	0.0012 mg/L	0.00055	1	02/06/25	cma	02/07/25	jlh		0.00010
Barium	0.55 mg/L	0.0025	1	02/06/25	cma	02/07/25	jlh		0.00068
Beryllium	0.000069 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh	J	0.000052
Cadmium	<0.000075 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.000075
Chromium	0.00066 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00020
Cobalt	0.00048 mg/L	0.00052	1	02/06/25	cma	02/07/25	jlh	J	0.00010
Lead	0.00077 mg/L	0.00055	1	02/06/25	cma	02/07/25	jlh		0.00010
Molybdenum	0.00093 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh	J	0.00025
Selenium	0.00011 mg/L	0.00050	1	02/06/25	cma	02/07/25	jlh	J	0.00010
Thallium	<0.000075 mg/L	0.00038	1	02/06/25	cma	02/07/25	jlh		0.000075

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-02 Date Collected: 02/03/25 14:14 Matrix: Ground Water
Sample ID: PZ-17 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T162504

Fluoride	0.38 mg/L	0.20	10	02/04/25	aeo	02/06/25	aeo	N	0.11
Chloride	34 mg/L	1.5	10	02/04/25	aeo	02/06/25	aeo		1.2
Sulfate as SO ₄	27 mg/L	6.0	10	02/04/25	aeo	02/06/25	aeo		2.2

Analysis Method: SM 2320 B-21

Batch: T162547

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	480 mg/L	5.0	1	02/05/25	ch	02/05/25	ch	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	02/05/25	ch	02/05/25	ch	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	480 mg/L	5.0	1	02/05/25	ch	02/05/25	ch		0.16

Analysis Method: SM 2540 C-20

Batch: T162514

Total Dissolved Solids	600 mg/L	20	2	02/04/25	mr	02/04/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T162510

Total Suspended Solids	10 mg/L	4.0	1	02/04/25	mr	02/04/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T162553

pH	7.56 pH Units		1	02/03/25	mj	02/04/25	mj	PH01b	
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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-03 Date Collected: 02/03/25 16:45 Matrix: Ground Water
Sample ID: MW-33 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T162864

Mercury	<0.00016 mg/L	0.00020	1	02/14/25	ejb	02/14/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T162592

Boron	0.056 mg/L	0.0088	1	02/06/25	cma	02/07/25	jma		0.0051
Calcium	120 mg/L	2.6	10	02/06/25	cma	02/07/25	jma		0.37
Lithium	0.0030 mg/L	0.0025	1	02/06/25	cma	02/07/25	jma	N	0.0019
Magnesium	12 mg/L	0.10	1	02/06/25	cma	02/07/25	jma		0.010
Potassium	2.4 mg/L	0.25	1	02/06/25	cma	02/07/25	jma		0.036
Sodium	19 mg/L	0.12	1	02/06/25	cma	02/07/25	jma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T162592

Antimony	0.0011 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00010
Arsenic	0.0012 mg/L	0.00055	1	02/06/25	cma	02/07/25	jlh		0.00010
Barium	0.043 mg/L	0.0025	1	02/06/25	cma	02/07/25	jlh		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.000075
Chromium	0.0035 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00020
Cobalt	0.00040 mg/L	0.00052	1	02/06/25	cma	02/07/25	jlh	J	0.00010
Lead	<0.00010 mg/L	0.00055	1	02/06/25	cma	02/07/25	jlh		0.00010
Molybdenum	0.0057 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.00025
Selenium	0.00098 mg/L	0.00050	1	02/06/25	cma	02/07/25	jlh		0.00010
Thallium	<0.000075 mg/L	0.00038	1	02/06/25	cma	02/07/25	jlh		0.000075

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-03 Date Collected: 02/03/25 16:45 Matrix: Ground Water
Sample ID: MW-33 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T162504

Fluoride	0.29 mg/L	0.20	10	02/04/25	aeo	02/07/25	aeo	N	0.11
Chloride	35 mg/L	1.5	10	02/04/25	aeo	02/07/25	aeo		1.2
Sulfate as SO ₄	22 mg/L	6.0	10	02/04/25	aeo	02/07/25	aeo		2.2

Analysis Method: SM 2320 B-21

Batch: T162547

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	320 mg/L	5.0	1	02/05/25	ch	02/05/25	ch	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	02/05/25	ch	02/05/25	ch	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	320 mg/L	5.0	1	02/05/25	ch	02/05/25	ch		0.16

Analysis Method: SM 2540 C-20

Batch: T162514

Total Dissolved Solids	500 mg/L	19	1.923077	02/04/25	mr	02/04/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T162510

Total Suspended Solids	<4.0 mg/L	4.0	0.990099	02/04/25	mr	02/04/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T162553

pH	7.11 pH Units		1	02/03/25	mj	02/04/25	mj	PH01c	
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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-04 Date Collected: 02/03/25 17:00 Matrix: Ground Water
Sample ID: MWT-33 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T162864

Mercury	<0.00016 mg/L	0.00020	1	02/14/25	ejb	02/14/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T162592

Boron	0.059 mg/L	0.0088	1	02/06/25	cma	02/07/25	jma		0.0051
Calcium	130 mg/L	2.6	10	02/06/25	cma	02/07/25	jma		0.37
Lithium	0.0035 mg/L	0.0025	1	02/06/25	cma	02/07/25	jma	N	0.0019
Magnesium	14 mg/L	0.10	1	02/06/25	cma	02/07/25	jma		0.010
Potassium	2.8 mg/L	0.25	1	02/06/25	cma	02/07/25	jma		0.036
Sodium	21 mg/L	0.12	1	02/06/25	cma	02/07/25	jma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T162592

Antimony	0.0011 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00010
Arsenic	0.0013 mg/L	0.00055	1	02/06/25	cma	02/07/25	jlh		0.00010
Barium	0.048 mg/L	0.0025	1	02/06/25	cma	02/07/25	jlh		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.000052
Cadmium	0.000079 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh	J	0.000075
Chromium	0.0034 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00020
Cobalt	0.00047 mg/L	0.00052	1	02/06/25	cma	02/07/25	jlh	J	0.00010
Lead	<0.00010 mg/L	0.00055	1	02/06/25	cma	02/07/25	jlh		0.00010
Molybdenum	0.0056 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.00025
Selenium	0.00099 mg/L	0.00050	1	02/06/25	cma	02/07/25	jlh		0.00010
Thallium	<0.000075 mg/L	0.00038	1	02/06/25	cma	02/07/25	jlh		0.000075

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-04 Date Collected: 02/03/25 17:00 Matrix: Ground Water
Sample ID: MWT-33 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T162504

Fluoride	0.28 mg/L	0.20	10	02/04/25	aeo	02/07/25	aeo	N	0.11
Chloride	36 mg/L	1.5	10	02/04/25	aeo	02/07/25	aeo		1.2
Sulfate as SO ₄	22 mg/L	6.0	10	02/04/25	aeo	02/07/25	aeo		2.2

Analysis Method: SM 2320 B-21

Batch: T162547

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	340 mg/L	5.0	1	02/05/25	ch	02/05/25	ch	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	02/05/25	ch	02/05/25	ch	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	340 mg/L	5.0	1	02/05/25	ch	02/05/25	ch		0.16

Analysis Method: SM 2540 C-20

Batch: T162514

Total Dissolved Solids	510 mg/L	20	2	02/04/25	mr	02/04/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T162510

Total Suspended Solids	<4.0 mg/L	4.0	0.990099	02/04/25	mr	02/04/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T162553

pH	7.01 pH Units		1	02/03/25	mj	02/04/25	mj	PH01d	
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QUALITY CONTROL RESULTS

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162864

Analysis Description: Mercury, Total, EPA 7470/7471

QC Batch Method: EPA 7470A Prep

Analysis Method: EPA 7470A

METHOD BLANK: T162864-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	mg/L	<0.00020	0.00020	

LABORATORY CONTROL SAMPLE: T162864-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	0.00204	102	80-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T162864-MSD1

Original: 25B0046-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	mg/L	0	0.00200	0.00204	0.00204	102	102	76-123	0	20	

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162592

Analysis Description: Sodium, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T162592-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Potassium	mg/L	<0.25	0.25	
Lithium	mg/L	<0.0025	0.0025	
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T162592-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.60	1.60	100	85-115	
Calcium	mg/L	16.0	15.9	100	85-115	
Potassium	mg/L	16.0	16.0	100	85-115	

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LABORATORY CONTROL SAMPLE: T162592-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Lithium	mg/L	1.60	1.67	104	85-115	
Magnesium	mg/L	16.0	16.2	101	85-115	
Sodium	mg/L	16.0	15.9	99	85-115	

MATRIX SPIKE: T162592-MS1 Original: **25B0046-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	5.87	1.60	7.36	93	70-130	
Calcium	mg/L	161	16.0	170	58	70-130	MS09
Potassium	mg/L	12.7	16.0	29.1	103	70-130	
Lithium	mg/L	0.00934	1.60	1.75	109	70-130	
Magnesium	mg/L	12.0	16.0	28.2	101	70-130	
Sodium	mg/L	67.7	16.0	82.7	94	70-130	

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162592

Analysis Description: Chromium, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T162592-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	

LABORATORY CONTROL SAMPLE: T162592-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Arsenic	mg/L	0.100	0.102	102	85-115	
Barium	mg/L	1.60	1.42	89	85-115	

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LABORATORY CONTROL SAMPLE: T162592-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Beryllium	mg/L	0.200	0.197	99	85-115	
Cadmium	mg/L	0.0500	0.0506	101	85-115	
Cobalt	mg/L	1.60	1.51	94	85-115	
Chromium	mg/L	0.0500	0.0488	98	85-115	
Molybdenum	mg/L	1.60	1.58	99	85-115	
Lead	mg/L	0.100	0.0907	91	85-115	
Antimony	mg/L	0.100	0.112	112	85-115	
Selenium	mg/L	0.100	0.102	102	85-115	
Thallium	mg/L	0.100	0.0919	92	85-115	

MATRIX SPIKE: T162592-MS1

Original: **25B0046-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.000735	0.100	0.105	104	70-130	
Barium	mg/L	0.0741	1.60	1.54	92	70-130	
Beryllium	mg/L	0	0.200	0.180	90	70-130	
Cadmium	mg/L	0	0.0500	0.0507	101	70-130	
Cobalt	mg/L	0.000758	1.60	1.46	91	70-130	
Chromium	mg/L	0	0.0500	0.0475	95	70-130	
Molybdenum	mg/L	0.0116	1.60	1.68	104	70-130	
Lead	mg/L	0	0.100	0.0871	87	70-130	
Antimony	mg/L	0	0.100	0.130	130	70-130	
Selenium	mg/L	0.000647	0.100	0.0996	99	70-130	
Thallium	mg/L	0	0.100	0.0894	89	70-130	

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162504

Analysis Description: Chloride

QC Batch Method: IC Prep W

Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T162504-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<1.0	1.0	

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LABORATORY CONTROL SAMPLE: T162504-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	mg/L	5.00	<10	98	90-110	J
Fluoride	mg/L	1.00	1.06	106	90-110	
Sulfate as SO4	mg/L	5.00	5.11	102	90-110	

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162547

Analysis Description: Alkalinity, Carbonate

QC Batch Method: SM 2320 B-21

Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T162547-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100	98.0	98	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100	98.0	98	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100	98.0	98	88-112	

SAMPLE DUPLICATE: T162547-DUP1

Original: 25B0046-01

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	341	343	0.5	20	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	0	<10		20	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	341	343	0.5	20	

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162514

Analysis Description: Total Dissolved Solids

QC Batch Method: SM 2540 C-20

Analysis Method: SM 2540 C-20

METHOD BLANK: T162514-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	2.00	10	J

LABORATORY CONTROL SAMPLE: T162514-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
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LABORATORY CONTROL SAMPLE: T162514-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500	500	100	80-120	

SAMPLE DUPLICATE: T162514-DUP1

Original: 25B0046-01

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	782	762	3	10	

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162510

Analysis Description: Total Suspended Solids

QC Batch Method: SM 2540 D-20

Analysis Method: SM 2540 D-20

METHOD BLANK: T162510-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

LABORATORY CONTROL SAMPLE: T162510-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100	90.4	90	85-115	

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162553

Analysis Description: pH, SM 4500

QC Batch Method: *** DEFAULT PREP ***

Analysis Method: SM 4500-H+ B-11

SAMPLE DUPLICATE: T162553-DUP1

Original: 25B0046-01

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	pH Units	7.43	7.46	0.4	20	PH01a

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
LOQ	Limit of Quantitation
LOD	Limit of Detection
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

DATA QUALIFIERS

Trace ID: 25B0046-01

Analysis: SM 4500-H+ B-11

pH Note PH01 : The pH was analyzed at 09:54

Trace ID: 25B0046-02

Analysis: SM 4500-H+ B-11

pH Note PH01b : The pH was analyzed at 09:56

Trace ID: 25B0046-03

Analysis: SM 4500-H+ B-11

pH Note PH01c : The pH was analyzed at 09:57

Trace ID: 25B0046-04

Analysis: SM 4500-H+ B-11

pH Note PH01d : The pH was analyzed at 09:58

Trace ID: T162553-DUP1

Analysis: SM 4500-H+ B-11

pH Note PH01a : The pH was analyzed at 09:55

Trace ID: T162592-MS1

Analysis: EPA 200.7 Rev. 4.4

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Calcium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

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CHAIN-OF-CUSTODY RECORD

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Page _____ of _____

Trace ID No

25B0646

Bill To:

PO #: 10357505

Contact Name: LARA LILLYMATCH

Billing Address (if different): 1000 California Drive Suite 200

CITY, STATE, ZIP CODE: FILM HOUSE, INC. 75107

[illegible]

Matrix Key:

$$O = O_{II} \quad A = A_{II}$$

WI = Wipes U = Unknown

S = Solid

LW = Liquid Waste

SL = Sludge

Y or N

overd

als F

Met

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Form 70-Z.2

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February 14, 2025

Ms. Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 25B0046
Client Project City of Grand Haven - Harbor Island

Dear Ms. Reeves:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Jon Mink".

Jon Mink
Senior Project Manager
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Wisconsin Accreditation No. FID: 998044080 / TNI EL V1:2016

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SAMPLE SUMMARY

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
25B0046-01	MW-37	Ground Water	AT	02/03/25 12:18	02/04/25 08:50
25B0046-02	PZ-17	Ground Water	AT	02/03/25 14:14	02/04/25 08:50
25B0046-03	MW-33	Ground Water	AT	02/03/25 16:45	02/04/25 08:50
25B0046-04	MWT-33	Ground Water	AT	02/03/25 17:00	02/04/25 08:50

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-01 Date Collected: 02/03/25 12:18 Matrix: Ground Water
Sample ID: MW-37 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL									
Analysis Method: EPA 200.7 Rev. 4.4 Batch: T162592									
Iron	2.1 mg/L	0.050	1	02/06/25	cma	02/07/25	jma		0.0075
Analysis Method: EPA 200.8 Rev. 5.4 Batch: T162592									
Copper	0.0067 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00020
Nickel	0.0029 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.00065
Silver	<0.000050 mg/L	0.000050	1	02/06/25	cma	02/07/25	jlh		0.000050
Vanadium	0.00067 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh	J	0.00062
Zinc	0.015 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-02 Date Collected: 02/03/25 14:14 Matrix: Ground Water
Sample ID: PZ-17 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL									
Analysis Method: EPA 200.7 Rev. 4.4 Batch: T162592									
Iron	4.1 mg/L	0.050	1	02/06/25	cma	02/07/25	jma		0.0075
Analysis Method: EPA 200.8 Rev. 5.4 Batch: T162592									
Copper	0.0010 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00020
Nickel	0.0011 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh	J	0.00065
Silver	<0.000050 mg/L	0.000050	1	02/06/25	cma	02/07/25	jlh		0.000050
Vanadium	0.00077 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh	J	0.00062
Zinc	0.044 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-03 Date Collected: 02/03/25 16:45 Matrix: Ground Water
Sample ID: MW-33 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL									
Analysis Method: EPA 200.7 Rev. 4.4 Batch: T162592									
Iron	0.078 mg/L	0.050	1	02/06/25	cma	02/07/25	jma		0.0075
Analysis Method: EPA 200.8 Rev. 5.4 Batch: T162592									
Copper	0.032 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00020
Nickel	0.018 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.00065
Silver	<0.000050 mg/L	0.000050	1	02/06/25	cma	02/07/25	jlh		0.000050
Vanadium	0.00088 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh	J	0.00062
Zinc	0.0059 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B0046
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B0046-04 Date Collected: 02/03/25 17:00 Matrix: Ground Water
Sample ID: MWT-33 Date Received: 02/04/25 08:50

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL									
Analysis Method: EPA 200.7 Rev. 4.4 Batch: T162592									
Iron	0.092 mg/L	0.050	1	02/06/25	cma	02/07/25	jma		0.0075
Analysis Method: EPA 200.8 Rev. 5.4 Batch: T162592									
Copper	0.031 mg/L	0.00025	1	02/06/25	cma	02/07/25	jlh		0.00020
Nickel	0.019 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.00065
Silver	<0.000050 mg/L	0.000050	1	02/06/25	cma	02/07/25	jlh		0.000050
Vanadium	0.00093 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh	J	0.00062
Zinc	0.0068 mg/L	0.0012	1	02/06/25	cma	02/07/25	jlh		0.0012

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QUALITY CONTROL RESULTS

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162592

Analysis Description: Iron, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T162592-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Iron	mg/L	<0.050	0.050	

LABORATORY CONTROL SAMPLE: T162592-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Iron	mg/L	16.0	16.0	100	85-115	

MATRIX SPIKE: T162592-MS1 Original: 25B0046-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	2.10	16.0	18.1	100	70-130	

Trace Project ID: 25B0046

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T162592

Analysis Description: Zinc, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T162592-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Copper	mg/L	<0.00025	0.00025	
Nickel	mg/L	<0.0012	0.0012	
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T162592-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	0.0529	106	85-115	
Copper	mg/L	1.60	1.46	91	85-115	
Nickel	mg/L	1.60	1.49	93	85-115	
Vanadium	mg/L	1.60	1.53	96	85-115	

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LABORATORY CONTROL SAMPLE: T162592-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Zinc	mg/L	1.60	1.49	93	85-115	

MATRIX SPIKE: T162592-MS1 Original: **25B0046-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0521	104	70-130	
Copper	mg/L	0.00675	1.60	1.38	86	70-130	
Nickel	mg/L	0.00291	1.60	1.42	89	70-130	
Vanadium	mg/L	0	1.60	1.53	95	70-130	
Zinc	mg/L	0.0154	1.60	1.41	87	70-130	

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
LOQ	Limit of Quantitation
LOD	Limit of Detection
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

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25B0046

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 2/4/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-10 (CF: -0.3°C)	IR-12 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.4°C)	Temp Blank	Client Sample
Time: 8:50									
Initials: m.j									
Package Description: Cooler									
Package Temp °C	0.0	0.0							
Representative Sample Temp °C	2.9	2.9							

Sample Receipt

Yes	No		
☒	☐	Received on ice or other coolant	
☒	☐	Ice still present upon receipt	
☐	☒	Custody seals present	
☐	☒	Trace Courier	☒ Client Drop-off
		☐ Yes ☐ No	Custody seals intact (if applicable)
		☐ UPS	☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes	No	N/A		
☒	☐	☐	All sample containers arrived unbroken and labeled	
☒	☐	☐	Sufficient sample to run requested analyses	
☒	☐	☐	Correct chemical preservative added to samples	
☐	☒	☐	Samples preserved at Trace	
☒	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)	
			☒ pH 0-2.5 (Lot: HC311850)	☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐	☐	☒	Air bubbles absent from VOAs	

Chain of Custody (COC)

Yes	No		
☒	☐	All bottle labels agree with COC	
☒	☐	COC filled out properly	
☒	☐	COC signed by client	

Notes:

MW-37

PZ-17

MW-33

MWT-33

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March 07, 2025

Ms. Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 25B1012
Client Project City of Grand Haven - Harbor Island

Dear Ms. Reeves:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Jon Mink".

Jon Mink
Senior Project Manager
Enclosures



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SAMPLE SUMMARY

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
25B1012-01	MW-01R	Ground Water	AB/AT	02/25/25 16:28	02/26/25 08:15
25B1012-02	MW-02	Ground Water	AB/AT	02/25/25 12:12	02/26/25 08:15
25B1012-03	MW-09	Ground Water	AB/AT	02/25/25 16:06	02/26/25 08:15
25B1012-04	MW-11	Ground Water	AB/AT	02/25/25 13:47	02/26/25 08:15
25B1012-05	MW-16	Ground Water	AB/AT	02/25/25 15:12	02/26/25 08:15
25B1012-06	MW-30	Ground Water	AB/AT	02/25/25 13:52	02/26/25 08:15
25B1012-07	MW-31	Ground Water	AB/AT	02/25/25 10:50	02/26/25 08:15
25B1012-08	MW-32	Ground Water	AB/AT	02/25/25 12:12	02/26/25 08:15
25B1012-09	MWT-32	Ground Water	AB/AT	02/25/25 12:12	02/26/25 08:15
25B1012-10	MW-03	Ground Water	AB/AT	02/26/25 08:28	02/27/25 09:26
25B1012-11	MW-04	Ground Water	AB/AT	02/26/25 09:42	02/27/25 09:26
25B1012-12	MW-06	Ground Water	AB/AT	02/26/25 15:17	02/27/25 09:26
25B1012-13	MW-07	Ground Water	AB/AT	02/26/25 16:30	02/27/25 09:26
25B1012-14	MW-08	Ground Water	AB/AT	02/26/25 12:42	02/27/25 09:26
25B1012-15	MW-10	Ground Water	AB/AT	02/26/25 16:46	02/27/25 09:26
25B1012-16	MW-12	Ground Water	AB/AT	02/26/25 11:24	02/27/25 09:26
25B1012-17	MW-18	Ground Water	AB/AT	02/26/25 12:14	02/27/25 09:26
25B1012-18	MW-19	Ground Water	AB/AT	02/26/25 13:38	02/27/25 09:26
25B1012-19	MW-20	Ground Water	AB/AT	02/26/25 15:22	02/27/25 09:26
25B1012-20	MW-34	Ground Water	AB/AT	02/26/25 14:02	02/27/25 09:26
25B1012-21	MW-36	Ground Water	AB/AT	02/26/25 10:50	02/27/25 09:26
25B1012-22	MW-38	Ground Water	AB/AT	02/26/25 11:55	02/27/25 09:26
25B1012-23	MW-27	Ground Water	AB/AT	02/27/25 08:44	02/27/25 09:26
25B1012-24	MW-28	Ground Water	AB/AT	02/27/25 08:15	02/27/25 09:26

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-01 Date Collected: 02/25/25 16:28 Matrix: Ground Water
Sample ID: MW-01R Date Received: 02/26/25 08:15

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016 mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	120 mg/L	0.18	20	02/28/25	ejb	03/04/25	jlh		0.10
Calcium	190 mg/L	5.1	20	02/28/25	ejb	03/04/25	jlh		0.74
Iron	0.13 mg/L	0.050	1	02/28/25	ejb	03/04/25	jlh		0.0075
Lithium	2.7 mg/L	0.050	20	02/28/25	ejb	03/04/25	jlh	MS07, N	0.038
Magnesium	120 mg/L	1.0	20	02/28/25	ejb	03/04/25	jlh		0.20
Potassium	85 mg/L	0.25	1	02/28/25	ejb	03/04/25	jlh		0.036
Sodium	410 mg/L	2.5	20	02/28/25	ejb	03/04/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	0.00021 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Arsenic	0.0013 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Barium	0.38 mg/L	0.0025	1	02/28/25	ejb	03/03/25	jma		0.00068
Beryllium	0.00012 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma	J	0.000052
Cadmium	<0.000075 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000075
Chromium	0.0019 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Cobalt	0.0011 mg/L	0.00052	1	02/28/25	ejb	03/03/25	jma		0.00010
Copper	0.00042 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Lead	0.00087 mg/L	0.0028	5	02/28/25	ejb	03/03/25	jma	DL02, J	0.00050
Molybdenum	0.00068 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma	J	0.00025
Nickel	0.0018 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00065
Selenium	0.00064 mg/L	0.00050	1	02/28/25	ejb	03/03/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	02/28/25	ejb	03/03/25	jma		0.000050
Thallium	<0.00038 mg/L	0.0019	5	02/28/25	ejb	03/03/25	jma	DL02	0.00038
Vanadium	0.0019 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00062
Zinc	0.033 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-01 Date Collected: 02/25/25 16:28 Matrix: Ground Water
Sample ID: MW-01R Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	14 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	N	0.11
Chloride	120 mg/L	1.5	10	02/26/25	ljs	02/27/25	ljs		1.2
Sulfate as SO4	310 mg/L	15	25	02/28/25	aeo	03/01/25	ljs		5.5

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	1300 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	1300 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	2400 mg/L	20	2	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	<4.0 mg/L	4.0	1	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	7.77 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-02 Date Collected: 02/25/25 12:12 Matrix: Ground Water
Sample ID: MW-02 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016 mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	170 mg/L	0.18	20	02/28/25	ejb	03/04/25	jlh		0.10
Calcium	180 mg/L	5.1	20	02/28/25	ejb	03/04/25	jlh		0.74
Iron	21 mg/L	0.050	1	02/28/25	ejb	03/06/25	jlh		0.0075
Lithium	2.3 mg/L	0.050	20	02/28/25	ejb	03/04/25	jlh	N	0.038
Magnesium	56 mg/L	0.10	1	02/28/25	ejb	03/06/25	jlh		0.010
Potassium	70 mg/L	0.25	1	02/28/25	ejb	03/06/25	jlh		0.036
Sodium	470 mg/L	2.5	20	02/28/25	ejb	03/04/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	0.00027 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00010
Arsenic	0.0095 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Barium	0.35 mg/L	0.0025	1	02/28/25	ejb	03/03/25	jma		0.00068
Beryllium	0.00022 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma	J	0.000052
Cadmium	0.000078 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma	J	0.000075
Chromium	0.063 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Cobalt	0.0097 mg/L	0.00052	1	02/28/25	ejb	03/03/25	jma		0.00010
Copper	0.0044 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Lead	0.0060 mg/L	0.0028	5	02/28/25	ejb	03/03/25	jma		0.00050
Molybdenum	0.016 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00025
Nickel	0.053 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00065
Selenium	0.0023 mg/L	0.00050	1	02/28/25	ejb	03/03/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	02/28/25	ejb	03/03/25	jma		0.000050
Thallium	<0.00038 mg/L	0.0019	5	02/28/25	ejb	03/03/25	jma	DL02	0.00038
Vanadium	0.0049 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00062
Zinc	0.036 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-02 Date Collected: 02/25/25 12:12 Matrix: Ground Water
Sample ID: MW-02 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	16 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	N	0.11
Chloride	150 mg/L	1.5	10	02/26/25	ljs	02/27/25	ljs		1.2
Sulfate as SO ₄	<2.2 mg/L	6.0	10	02/26/25	ljs	02/27/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	2700 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	2700 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	2600 mg/L	40	4	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	8.0 mg/L	4.0	1	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	7.24 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01b	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-03 Date Collected: 02/25/25 16:06 Matrix: Ground Water
Sample ID: MW-09 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016 mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	5.1 mg/L	0.0088	1	02/28/25	ejb	03/04/25	jlh		0.0051
Calcium	510 mg/L	2.6	10	02/28/25	ejb	03/04/25	jlh		0.37
Iron	13 mg/L	0.050	1	02/28/25	ejb	03/04/25	jlh		0.0075
Lithium	0.33 mg/L	0.0025	1	02/28/25	ejb	03/04/25	jlh	N	0.0019
Magnesium	69 mg/L	0.10	1	02/28/25	ejb	03/04/25	jlh		0.010
Potassium	16 mg/L	0.25	1	02/28/25	ejb	03/04/25	jlh		0.036
Sodium	34 mg/L	0.12	1	02/28/25	ejb	03/04/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	<0.00010 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00010
Arsenic	0.0015 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Barium	0.097 mg/L	0.0025	1	02/28/25	ejb	03/03/25	jma		0.00068
Beryllium	0.00015 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma	J	0.000052
Cadmium	<0.000075 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000075
Chromium	0.0020 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Cobalt	0.00043 mg/L	0.00052	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Copper	0.00034 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Lead	<0.00050 mg/L	0.0028	5	02/28/25	ejb	03/03/25	jma	DL02	0.00050
Molybdenum	0.023 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00025
Nickel	0.10 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00065
Selenium	0.00064 mg/L	0.00050	1	02/28/25	ejb	03/03/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	02/28/25	ejb	03/03/25	jma		0.000050
Thallium	<0.00038 mg/L	0.0019	5	02/28/25	ejb	03/03/25	jma	DL02	0.00038
Vanadium	<0.00062 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00062
Zinc	0.016 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-03 Date Collected: 02/25/25 16:06 Matrix: Ground Water
Sample ID: MW-09 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	2.4 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	N	0.11
Chloride	67 mg/L	1.5	10	02/26/25	ljs	02/27/25	ljs		1.2
Sulfate as SO4	790 mg/L	30	50	02/28/25	aeo	03/01/25	ljs		11

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	670 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	670 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	1900 mg/L	20	2	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	33 mg/L	4.0	1	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	7.08 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01c	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-04 Date Collected: 02/25/25 13:47 Matrix: Ground Water
Sample ID: MW-11 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016 mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	5.2 mg/L	0.0088	1	02/28/25	ejb	03/04/25	jlh		0.0051
Calcium	270 mg/L	2.6	10	02/28/25	ejb	03/04/25	jlh		0.37
Iron	8.2 mg/L	0.050	1	02/28/25	ejb	03/04/25	jlh		0.0075
Lithium	0.051 mg/L	0.0025	1	02/28/25	ejb	03/04/25	jlh	N	0.0019
Magnesium	58 mg/L	0.10	1	02/28/25	ejb	03/04/25	jlh		0.010
Potassium	11 mg/L	0.25	1	02/28/25	ejb	03/04/25	jlh		0.036
Sodium	44 mg/L	0.12	1	02/28/25	ejb	03/04/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	<0.00010 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00010
Arsenic	0.0014 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Barium	0.57 mg/L	0.0025	1	02/28/25	ejb	03/03/25	jma		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000075
Chromium	0.00086 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Cobalt	0.00035 mg/L	0.00052	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Copper	0.00025 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Lead	0.00042 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Molybdenum	0.00095 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma	J	0.00025
Nickel	0.0015 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00065
Selenium	0.00018 mg/L	0.00050	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	02/28/25	ejb	03/03/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	02/28/25	ejb	03/03/25	jma		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00062
Zinc	0.041 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-04 Date Collected: 02/25/25 13:47 Matrix: Ground Water
Sample ID: MW-11 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	0.45 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	N	0.11
Chloride	71 mg/L	1.5	10	02/26/25	ljs	02/27/25	ljs		1.2
Sulfate as SO ₄	<2.2 mg/L	6.0	10	02/26/25	ljs	02/27/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	900 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	900 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	1000 mg/L	20	2	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	22 mg/L	4.0	1	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	7.26 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01d	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-05 Date Collected: 02/25/25 15:12 Matrix: Ground Water
Sample ID: MW-16 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016	mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	0.27	mg/L	0.0088	1	02/28/25	ejb	03/04/25	jlh		0.0051
Calcium	280	mg/L	2.6	10	02/28/25	ejb	03/04/25	jlh		0.37
Iron	4.7	mg/L	0.050	1	02/28/25	ejb	03/04/25	jlh		0.0075
Lithium	0.020	mg/L	0.0025	1	02/28/25	ejb	03/04/25	jlh	N	0.0019
Magnesium	33	mg/L	0.10	1	02/28/25	ejb	03/04/25	jlh		0.010
Potassium	5.2	mg/L	0.25	1	02/28/25	ejb	03/04/25	jlh		0.036
Sodium	25	mg/L	0.12	1	02/28/25	ejb	03/04/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	<0.00010	mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00010
Arsenic	0.0012	mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Barium	0.18	mg/L	0.0025	1	02/28/25	ejb	03/03/25	jma		0.00068
Beryllium	<0.000052	mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000075
Chromium	0.00051	mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Cobalt	0.00039	mg/L	0.00052	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Copper	0.00031	mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Lead	0.00019	mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00025
Nickel	0.0028	mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00065
Selenium	<0.00010	mg/L	0.00050	1	02/28/25	ejb	03/03/25	jma		0.00010
Silver	<0.000050	mg/L	0.000050	1	02/28/25	ejb	03/03/25	jma		0.000050
Thallium	<0.000075	mg/L	0.00038	1	02/28/25	ejb	03/03/25	jma		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00062
Zinc	0.016	mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-05 Date Collected: 02/25/25 15:12 Matrix: Ground Water
Sample ID: MW-16 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	0.15 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	J, N	0.11
Chloride	18 mg/L	1.5	10	02/26/25	ljs	02/27/25	ljs		1.2
Sulfate as SO4	90 mg/L	6.0	10	02/26/25	ljs	02/27/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	720 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	720 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	910 mg/L	20	1.960784	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	4.0 mg/L	4.0	1.010101	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	7.34 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01e	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-06 Date Collected: 02/25/25 13:52 Matrix: Ground Water
Sample ID: MW-30 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016 mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	1.4 mg/L	0.0088	1	02/28/25	ejb	03/04/25	jlh		0.0051
Calcium	700 mg/L	2.6	10	02/28/25	ejb	03/04/25	jlh		0.37
Iron	2.5 mg/L	0.050	1	02/28/25	ejb	03/04/25	jlh		0.0075
Lithium	0.16 mg/L	0.0025	1	02/28/25	ejb	03/04/25	jlh	N	0.0019
Magnesium	190 mg/L	0.50	10	02/28/25	ejb	03/04/25	jlh		0.10
Potassium	18 mg/L	0.25	1	02/28/25	ejb	03/04/25	jlh		0.036
Sodium	330 mg/L	1.2	10	02/28/25	ejb	03/04/25	jlh		0.88

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	0.00065 mg/L	0.0012	5	02/28/25	ejb	03/03/25	jma	DL02, J	0.00050
Arsenic	0.0022 mg/L	0.0028	5	02/28/25	ejb	03/03/25	jma	DL02, J	0.00050
Barium	0.098 mg/L	0.012	5	02/28/25	ejb	03/03/25	jma		0.0034
Beryllium	<0.00026 mg/L	0.0012	5	02/28/25	ejb	03/03/25	jma	DL02	0.00026
Cadmium	<0.00038 mg/L	0.0012	5	02/28/25	ejb	03/03/25	jma	DL02	0.00038
Chromium	0.0031 mg/L	0.0012	5	02/28/25	ejb	03/03/25	jma		0.0010
Cobalt	0.046 mg/L	0.0026	5	02/28/25	ejb	03/03/25	jma		0.00050
Copper	<0.0010 mg/L	0.0012	5	02/28/25	ejb	03/03/25	jma	DL02	0.0010
Lead	<0.00050 mg/L	0.0028	5	02/28/25	ejb	03/03/25	jma	DL02	0.00050
Molybdenum	0.019 mg/L	0.0062	5	02/28/25	ejb	03/03/25	jma		0.0012
Nickel	0.11 mg/L	0.0062	5	02/28/25	ejb	03/03/25	jma		0.0032
Selenium	<0.00050 mg/L	0.0025	5	02/28/25	ejb	03/03/25	jma	DL02	0.00050
Silver	<0.00025 mg/L	0.00025	5	02/28/25	ejb	03/03/25	jma	DL02	0.00025
Thallium	<0.00038 mg/L	0.0019	5	02/28/25	ejb	03/03/25	jma	DL02	0.00038
Vanadium	<0.0031 mg/L	0.0062	5	02/28/25	ejb	03/03/25	jma	DL02	0.0031
Zinc	0.10 mg/L	0.0062	5	02/28/25	ejb	03/03/25	jma		0.0059

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-06 Date Collected: 02/25/25 13:52 Matrix: Ground Water
Sample ID: MW-30 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	0.57 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	N	0.11
Chloride	1200 mg/L	15	100	02/28/25	aeo	03/01/25	ljs		12
Sulfate as SO4	980 mg/L	60	100	02/28/25	aeo	03/01/25	ljs		22

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	550 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	550 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	4000 mg/L	19	1.923077	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	8.0 mg/L	4.0	1	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	6.91 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01f	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-07 Date Collected: 02/25/25 10:50 Matrix: Ground Water
Sample ID: MW-31 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016 mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	4.5 mg/L	0.0088	1	02/28/25	ejb	03/04/25	jlh		0.0051
Calcium	150 mg/L	2.6	10	02/28/25	ejb	03/04/25	jlh		0.37
Iron	0.22 mg/L	0.050	1	02/28/25	ejb	03/04/25	jlh		0.0075
Lithium	0.043 mg/L	0.0025	1	02/28/25	ejb	03/04/25	jlh	N	0.0019
Magnesium	37 mg/L	0.10	1	02/28/25	ejb	03/04/25	jlh		0.010
Potassium	9.6 mg/L	0.25	1	02/28/25	ejb	03/04/25	jlh		0.036
Sodium	57 mg/L	0.12	1	02/28/25	ejb	03/04/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	0.00069 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00010
Arsenic	0.0012 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Barium	0.20 mg/L	0.0025	1	02/28/25	ejb	03/03/25	jma		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000075
Chromium	0.0020 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Cobalt	<0.00010 mg/L	0.00052	1	02/28/25	ejb	03/03/25	jma		0.00010
Copper	<0.00020 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Lead	<0.00010 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Molybdenum	0.0015 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00025
Nickel	0.023 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00065
Selenium	<0.00010 mg/L	0.00050	1	02/28/25	ejb	03/03/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	02/28/25	ejb	03/03/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	02/28/25	ejb	03/03/25	jma		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00062
Zinc	0.013 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-07 Date Collected: 02/25/25 10:50 Matrix: Ground Water
Sample ID: MW-31 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	4.1 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	N	0.11
Chloride	110 mg/L	1.5	10	02/26/25	ljs	02/27/25	ljs		1.2
Sulfate as SO4	71 mg/L	6.0	10	02/26/25	ljs	02/27/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	410 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	410 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	740 mg/L	10	1	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	<4.0 mg/L	4.0	1	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	8.05 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01g	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-08 Date Collected: 02/25/25 12:12 Matrix: Ground Water
Sample ID: MW-32 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016 mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	3.0 mg/L	0.0088	1	02/28/25	ejb	03/04/25	jlh		0.0051
Calcium	160 mg/L	2.6	10	02/28/25	ejb	03/04/25	jlh		0.37
Iron	14 mg/L	0.050	1	02/28/25	ejb	03/04/25	jlh		0.0075
Lithium	0.12 mg/L	0.0025	1	02/28/25	ejb	03/04/25	jlh	N	0.0019
Magnesium	29 mg/L	0.10	1	02/28/25	ejb	03/04/25	jlh		0.010
Potassium	9.2 mg/L	0.25	1	02/28/25	ejb	03/04/25	jlh		0.036
Sodium	29 mg/L	0.12	1	02/28/25	ejb	03/04/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	<0.00010 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00010
Arsenic	0.00039 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Barium	0.97 mg/L	0.025	10	02/28/25	ejb	03/03/25	jma		0.0068
Beryllium	<0.000052 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000075
Chromium	0.00033 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Cobalt	0.00022 mg/L	0.00052	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Copper	0.00023 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma	J	0.00020
Lead	<0.00010 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Molybdenum	0.0025 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00025
Nickel	0.00068 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma	J	0.00065
Selenium	<0.00010 mg/L	0.00050	1	02/28/25	ejb	03/03/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	02/28/25	ejb	03/03/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	02/28/25	ejb	03/03/25	jma		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00062
Zinc	0.068 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-08 Date Collected: 02/25/25 12:12 Matrix: Ground Water
Sample ID: MW-32 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	1.2 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	N	0.11
Chloride	50 mg/L	1.5	10	02/26/25	ljs	02/27/25	ljs		1.2
Sulfate as SO4	27 mg/L	6.0	10	02/26/25	ljs	02/27/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	480 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	480 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	650 mg/L	20	2	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	29 mg/L	4.0	1	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	7.47 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01h	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-09 Date Collected: 02/25/25 12:12 Matrix: Ground Water
Sample ID: MWT-32 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163419

Mercury	<0.00016 mg/L	0.00020	1	02/27/25	ejb	02/28/25	jma		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163418

Boron	3.1 mg/L	0.0088	1	02/28/25	ejb	03/04/25	jlh		0.0051
Calcium	170 mg/L	2.6	10	02/28/25	ejb	03/04/25	jlh		0.37
Iron	14 mg/L	0.050	1	02/28/25	ejb	03/04/25	jlh		0.0075
Lithium	0.11 mg/L	0.0025	1	02/28/25	ejb	03/04/25	jlh	N	0.0019
Magnesium	30 mg/L	0.10	1	02/28/25	ejb	03/04/25	jlh		0.010
Potassium	9.1 mg/L	0.25	1	02/28/25	ejb	03/04/25	jlh		0.036
Sodium	29 mg/L	0.12	1	02/28/25	ejb	03/04/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163418

Antimony	<0.00010 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00010
Arsenic	0.00039 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Barium	0.96 mg/L	0.025	10	02/28/25	ejb	03/03/25	jma		0.0068
Beryllium	<0.000052 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.000075
Chromium	0.00033 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Cobalt	0.00022 mg/L	0.00052	1	02/28/25	ejb	03/03/25	jma	J	0.00010
Copper	0.00027 mg/L	0.00025	1	02/28/25	ejb	03/03/25	jma		0.00020
Lead	<0.00010 mg/L	0.00055	1	02/28/25	ejb	03/03/25	jma		0.00010
Molybdenum	0.0024 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00025
Nickel	0.00067 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma	J	0.00065
Selenium	<0.00010 mg/L	0.00050	1	02/28/25	ejb	03/03/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	02/28/25	ejb	03/03/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	02/28/25	ejb	03/03/25	jma		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.00062
Zinc	0.067 mg/L	0.0012	1	02/28/25	ejb	03/03/25	jma		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-09 Date Collected: 02/25/25 12:12 Matrix: Ground Water
Sample ID: MWT-32 Date Received: 02/26/25 08:15

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163395

Fluoride	1.3 mg/L	0.20	10	02/26/25	ljs	02/27/25	ljs	N	0.11
Chloride	51 mg/L	1.5	10	02/26/25	ljs	02/27/25	ljs		1.2
Sulfate as SO4	27 mg/L	6.0	10	02/26/25	ljs	02/27/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	490 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	490 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163415

Total Dissolved Solids	620 mg/L	20	2.040816	02/26/25	mr	02/26/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163414

Total Suspended Solids	26 mg/L	4.0	1	02/26/25	mr	02/26/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163534

pH	7.44 pH Units		1	02/25/25	mcr	02/26/25	mcr	PH01i	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-10 Date Collected: 02/26/25 08:28 Matrix: Ground Water
Sample ID: MW-03 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	3.7 mg/L	0.0088	1	03/04/25	cma	03/05/25	jlh		0.0051
Calcium	320 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	0.63 mg/L	0.050	1	03/04/25	cma	03/05/25	jlh		0.0075
Lithium	0.031 mg/L	0.0025	1	03/04/25	cma	03/05/25	jlh	N	0.0019
Magnesium	190 mg/L	1.0	20	03/04/25	cma	03/05/25	jlh		0.20
Potassium	18 mg/L	0.25	1	03/04/25	cma	03/05/25	jlh		0.036
Sodium	88 mg/L	2.5	20	03/04/25	cma	03/05/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00013 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.00010
Arsenic	0.0011 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.33 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.0034 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00059 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	<0.00010 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	<0.00025 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0012 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00040 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	0.0012 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	<0.0012 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-10 Date Collected: 02/26/25 08:28 Matrix: Ground Water
Sample ID: MW-03 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.65 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	110 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	34 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	1500 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	1500 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	1700 mg/L	20	2	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	<4.0 mg/L	4.0	1	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	7.47 pH Units		1	02/26/25	mcr	02/27/25	mcr	H04, PH01j	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-11 Date Collected: 02/26/25 09:42 Matrix: Ground Water
Sample ID: MW-04 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	3.7 mg/L	0.0088	1	03/04/25	cma	03/05/25	jlh	MS07	0.0051
Calcium	360 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	0.62 mg/L	0.050	1	03/04/25	cma	03/05/25	jlh		0.0075
Lithium	0.031 mg/L	0.0025	1	03/04/25	cma	03/05/25	jlh	N	0.0019
Magnesium	120 mg/L	1.0	20	03/04/25	cma	03/05/25	jlh		0.20
Potassium	18 mg/L	0.25	1	03/04/25	cma	03/05/25	jlh		0.036
Sodium	65 mg/L	2.5	20	03/04/25	cma	03/05/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00014 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.00010
Arsenic	0.0028 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.16 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.0028 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00035 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs	J	0.00010
Copper	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	<0.00010 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	0.0023 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.012 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00019 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	0.00075 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00062
Zinc	<0.0012 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-11 Date Collected: 02/26/25 09:42 Matrix: Ground Water
Sample ID: MW-04 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	1.1 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	90 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	660 mg/L	30	50	02/28/25	aeo	03/01/25	ljs		11

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	760 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	760 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	1800 mg/L	20	2.040816	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	8.0 mg/L	4.0	1	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	7.51 pH Units		1	02/26/25	mcr	02/27/25	mcr	H04, PH01I	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-12 Date Collected: 02/26/25 15:17 Matrix: Ground Water
Sample ID: MW-06 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	9.8 mg/L	0.0088	1	03/04/25	cma	03/06/25	jlh		0.0051
Calcium	200 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	4.6 mg/L	0.050	1	03/04/25	cma	03/06/25	jlh		0.0075
Lithium	0.17 mg/L	0.0025	1	03/04/25	cma	03/06/25	jlh	N	0.0019
Magnesium	110 mg/L	1.0	20	03/04/25	cma	03/05/25	jlh		0.20
Potassium	25 mg/L	0.25	1	03/04/25	cma	03/06/25	jlh		0.036
Sodium	100 mg/L	2.5	20	03/04/25	cma	03/05/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	<0.00010 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00010
Arsenic	0.00051 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs	J	0.00010
Barium	1.3 mg/L	0.012	5	03/04/25	cma	03/04/25	acs		0.0034
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.0011 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00039 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs	J	0.00010
Copper	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	0.00018 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs	J	0.00010
Molybdenum	0.00056 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00025
Nickel	0.00091 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00065
Selenium	0.00022 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	0.0014 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-12 Date Collected: 02/26/25 15:17 Matrix: Ground Water
Sample ID: MW-06 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	1.2 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	59 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	30 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163497

Bicarbonate Alkalinity as CaCO3 at pH 4.5	1100 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	1100 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	1200 mg/L	20	2	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	12 mg/L	4.1	1.020408	02/27/25	mr	02/27/25	mr		4.1
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	7.23 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01m	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-13 Date Collected: 02/26/25 16:30 Matrix: Ground Water
Sample ID: MW-07 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	11 mg/L	0.0088	1	03/04/25	cma	03/05/25	jlh		0.0051
Calcium	160 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	19 mg/L	0.050	1	03/04/25	cma	03/05/25	jlh		0.0075
Lithium	0.0054 mg/L	0.0025	1	03/04/25	cma	03/05/25	jlh	N	0.0019
Magnesium	39 mg/L	0.10	1	03/04/25	cma	03/05/25	jlh		0.010
Potassium	4.5 mg/L	0.25	1	03/04/25	cma	03/05/25	jlh		0.036
Sodium	44 mg/L	0.12	1	03/04/25	cma	03/05/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	<0.00010 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00010
Arsenic	0.00018 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs	J	0.00010
Barium	0.42 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.00028 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00086 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	0.00062 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	<0.00010 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	<0.00025 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	<0.00065 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00013 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	0.0013 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-13 Date Collected: 02/26/25 16:30 Matrix: Ground Water
Sample ID: MW-07 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	<0.11 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	16 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	37 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	650 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	650 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	710 mg/L	20	2	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	44 mg/L	4.0	1	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	6.95 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01n	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-14 Date Collected: 02/26/25 12:42 Matrix: Ground Water
Sample ID: MW-08 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	4.1 mg/L	0.0088	1	03/04/25	cma	03/06/25	jlh		0.0051
Calcium	140 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	21 mg/L	0.050	1	03/04/25	cma	03/06/25	jlh		0.0075
Lithium	0.075 mg/L	0.0025	1	03/04/25	cma	03/06/25	jlh	N	0.0019
Magnesium	22 mg/L	0.10	1	03/04/25	cma	03/06/25	jlh		0.010
Potassium	7.7 mg/L	0.25	1	03/04/25	cma	03/06/25	jlh		0.036
Sodium	30 mg/L	0.12	1	03/04/25	cma	03/06/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00016 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.00010
Arsenic	0.033 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.94 mg/L	0.012	5	03/04/25	cma	03/04/25	acs		0.0034
Beryllium	0.00012 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.000052
Cadmium	0.00011 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.000075
Chromium	0.00065 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00098 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	0.00080 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	0.00022 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs	J	0.00010
Molybdenum	0.0020 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0052 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00030 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	0.00013 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs	J	0.000075
Vanadium	0.00091 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00062
Zinc	0.0037 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-14 Date Collected: 02/26/25 12:42 Matrix: Ground Water
Sample ID: MW-08 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.61 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	39 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	48 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	400 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	400 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	590 mg/L	40	4	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	44 mg/L	4.0	1.010101	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	7.08 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01o	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-15 Date Collected: 02/26/25 16:46 Matrix: Ground Water
Sample ID: MW-10 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	23 mg/L	0.18	20	03/04/25	cma	03/05/25	jlh		0.10
Calcium	300 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	7.0 mg/L	0.050	1	03/04/25	cma	03/06/25	jlh		0.0075
Lithium	0.97 mg/L	0.0025	1	03/04/25	cma	03/06/25	jlh	N	0.0019
Magnesium	110 mg/L	1.0	20	03/04/25	cma	03/05/25	jlh		0.20
Potassium	42 mg/L	0.25	1	03/04/25	cma	03/06/25	jlh		0.036
Sodium	230 mg/L	2.5	20	03/04/25	cma	03/05/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	<0.00010 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00010
Arsenic	0.00053 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs	J	0.00010
Barium	0.38 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.0045 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00029 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs	J	0.00010
Copper	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	<0.00010 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	0.00065 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00025
Nickel	<0.00065 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00019 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	<0.0012 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-15 Date Collected: 02/26/25 16:46 Matrix: Ground Water
Sample ID: MW-10 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	5.9 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	350 mg/L	3.8	25	02/28/25	aeo	03/03/25	ljs		3.0
Sulfate as SO4	390 mg/L	15	25	02/28/25	aeo	03/03/25	ljs		5.5

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	850 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	850 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	1900 mg/L	19	1.886792	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	14 mg/L	4.0	1.010101	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	7.69 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01p	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-16 Date Collected: 02/26/25 11:24 Matrix: Ground Water
Sample ID: MW-12 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	0.36 mg/L	0.0088	1	03/04/25	cma	03/05/25	jlh		0.0051
Calcium	59 mg/L	0.26	1	03/04/25	cma	03/05/25	jlh		0.037
Iron	0.021 mg/L	0.050	1	03/04/25	cma	03/05/25	jlh	J	0.0075
Lithium	0.0020 mg/L	0.0025	1	03/04/25	cma	03/05/25	jlh	J, N	0.0019
Magnesium	18 mg/L	0.10	1	03/04/25	cma	03/05/25	jlh		0.010
Potassium	0.62 mg/L	0.25	1	03/04/25	cma	03/05/25	jlh		0.036
Sodium	15 mg/L	0.12	1	03/04/25	cma	03/05/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.0015 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00010
Arsenic	0.0015 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.051 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	0.0012 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.00041 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00011 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs	J	0.00010
Copper	0.0034 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	0.00015 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs	J	0.00010
Molybdenum	0.0087 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0029 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.0043 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs		0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	0.00074 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00062
Zinc	0.0073 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-16 Date Collected: 02/26/25 11:24 Matrix: Ground Water
Sample ID: MW-12 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.20 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	27 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	100 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	98 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	98 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	300 mg/L	10	1.010101	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	<4.0 mg/L	4.0	0.990099	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	7.77 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01q	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-17 Date Collected: 02/26/25 12:14 Matrix: Ground Water
Sample ID: MW-18 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	4.4 mg/L	0.0088	1	03/04/25	cma	03/05/25	jlh		0.0051
Calcium	410 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	8.1 mg/L	0.050	1	03/04/25	cma	03/05/25	jlh		0.0075
Lithium	0.032 mg/L	0.0025	1	03/04/25	cma	03/05/25	jlh	N	0.0019
Magnesium	50 mg/L	0.10	1	03/04/25	cma	03/05/25	jlh		0.010
Potassium	8.4 mg/L	0.25	1	03/04/25	cma	03/05/25	jlh		0.036
Sodium	31 mg/L	0.12	1	03/04/25	cma	03/05/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00023 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.00010
Arsenic	0.028 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.018 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	0.000053 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.000052
Cadmium	0.00011 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.000075
Chromium	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.0023 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	0.00039 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	<0.00010 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	0.015 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0058 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00053 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs		0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	0.045 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-17 Date Collected: 02/26/25 12:14 Matrix: Ground Water
Sample ID: MW-18 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	3.2 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	32 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	1100 mg/L	60	100	02/28/25	aeo	03/03/25	ljs		22

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	100 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	100 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	1600 mg/L	20	2.040816	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	4.0 mg/L	4.0	1.010101	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	7.17 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01r	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-18 Date Collected: 02/26/25 13:38 Matrix: Ground Water
Sample ID: MW-19 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	2.4 mg/L	0.0088	1	03/04/25	cma	03/06/25	jlh		0.0051
Calcium	470 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	17 mg/L	0.050	1	03/04/25	cma	03/06/25	jlh		0.0075
Lithium	0.084 mg/L	0.0025	1	03/04/25	cma	03/06/25	jlh	N	0.0019
Magnesium	37 mg/L	0.10	1	03/04/25	cma	03/06/25	jlh		0.010
Potassium	15 mg/L	0.25	1	03/04/25	cma	03/06/25	jlh		0.036
Sodium	32 mg/L	0.12	1	03/04/25	cma	03/06/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00046 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00010
Arsenic	0.0042 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.036 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	0.000058 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.00020
Cobalt	0.0012 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	<0.00010 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	0.019 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0026 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00013 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	0.0046 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-18 Date Collected: 02/26/25 13:38 Matrix: Ground Water
Sample ID: MW-19 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	1.4 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	27 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	960 mg/L	30	50	02/28/25	aeo	03/03/25	ljs		11

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	280 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	280 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	1700 mg/L	19	1.923077	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	15 mg/L	4.0	1.010101	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	6.85 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01s	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-19 Date Collected: 02/26/25 15:22 Matrix: Ground Water
Sample ID: MW-20 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	0.82 mg/L	0.0088	1	03/04/25	cma	03/05/25	jlh		0.0051
Calcium	110 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	14 mg/L	0.050	1	03/04/25	cma	03/05/25	jlh		0.0075
Lithium	0.035 mg/L	0.0025	1	03/04/25	cma	03/05/25	jlh	N	0.0019
Magnesium	36 mg/L	0.10	1	03/04/25	cma	03/05/25	jlh		0.010
Potassium	6.9 mg/L	0.25	1	03/04/25	cma	03/05/25	jlh		0.036
Sodium	43 mg/L	0.12	1	03/04/25	cma	03/05/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00012 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.00010
Arsenic	0.0010 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.48 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00069 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	0.0018 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	0.0052 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0045 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	<0.00010 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs		0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	0.015 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-19 Date Collected: 02/26/25 15:22 Matrix: Ground Water
Sample ID: MW-20 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.22 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	29 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	38 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	430 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	430 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	510 mg/L	40	4	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	26 mg/L	4.0	1	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	7.32 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01s	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-20 Date Collected: 02/26/25 14:02 Matrix: Ground Water
Sample ID: MW-34 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	2.1 mg/L	0.0088	1	03/04/25	cma	03/06/25	jlh		0.0051
Calcium	220 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	64 mg/L	0.050	1	03/04/25	cma	03/06/25	jlh		0.0075
Lithium	0.057 mg/L	0.0025	1	03/04/25	cma	03/06/25	jlh	N	0.0019
Magnesium	23 mg/L	0.10	1	03/04/25	cma	03/06/25	jlh		0.010
Potassium	8.3 mg/L	0.25	1	03/04/25	cma	03/06/25	jlh		0.036
Sodium	26 mg/L	0.12	1	03/04/25	cma	03/06/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00019 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.00010
Arsenic	0.00072 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.47 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.018 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00090 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	0.00029 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	0.00041 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs	J	0.00010
Molybdenum	<0.00025 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.041 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00026 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	0.00078 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00062
Zinc	0.0036 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-20 Date Collected: 02/26/25 14:02 Matrix: Ground Water
Sample ID: MW-34 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.22 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	19 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO ₄	<2.2 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	900 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	900 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	720 mg/L	38	3.846154	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	97 mg/L	4.0	1	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	6.65 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01t	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-21 Date Collected: 02/26/25 10:50 Matrix: Ground Water
Sample ID: MW-36 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	0.25 mg/L	0.0088	1	03/04/25	cma	03/05/25	jlh		0.0051
Calcium	56 mg/L	0.26	1	03/04/25	cma	03/05/25	jlh		0.037
Iron	0.39 mg/L	0.050	1	03/04/25	cma	03/05/25	jlh		0.0075
Lithium	0.0042 mg/L	0.0025	1	03/04/25	cma	03/05/25	jlh	N	0.0019
Magnesium	6.1 mg/L	0.10	1	03/04/25	cma	03/05/25	jlh		0.010
Potassium	46 mg/L	0.25	1	03/04/25	cma	03/05/25	jlh		0.036
Sodium	62 mg/L	0.12	1	03/04/25	cma	03/05/25	jlh		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.0029 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00010
Arsenic	0.012 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.13 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	0.00046 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.0021 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00028 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs	J	0.00010
Copper	0.011 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	0.032 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	0.037 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0066 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00064 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs		0.00010
Silver	0.00023 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	0.0052 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	0.013 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-21 Date Collected: 02/26/25 10:50 Matrix: Ground Water
Sample ID: MW-36 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.61 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	34 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	10 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	200 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	97 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	300 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	400 mg/L	13	1.333333	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	5.0 mg/L	4.0	1	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	9.41 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01u	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-22 Date Collected: 02/26/25 11:55 Matrix: Ground Water
Sample ID: MW-38 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	1.2 mg/L	0.0088	1	03/04/25	cma	03/06/25	jlh		0.0051
Calcium	74 mg/L	0.26	1	03/04/25	cma	03/06/25	jlh		0.037
Iron	1.4 mg/L	0.050	1	03/04/25	cma	03/06/25	jlh		0.0075
Lithium	0.094 mg/L	0.0025	1	03/04/25	cma	03/06/25	jlh	N	0.0019
Magnesium	7.4 mg/L	0.10	1	03/04/25	cma	03/06/25	jlh		0.010
Potassium	82 mg/L	0.25	1	03/04/25	cma	03/06/25	jlh		0.036
Sodium	96 mg/L	2.5	20	03/04/25	cma	03/05/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.0018 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00010
Arsenic	0.0057 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.070 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	0.00049 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.013 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00079 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	0.018 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	0.060 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	0.023 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0083 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.0010 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs		0.00010
Silver	0.00015 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	0.015 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	0.021 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-22 Date Collected: 02/26/25 11:55 Matrix: Ground Water
Sample ID: MW-38 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.83 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	42 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	130 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	230 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	75 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	300 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	350 mg/L	20	2.040816	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	45 mg/L	4.0	1.010101	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	9.18 pH Units		1	02/26/25	mcr	02/27/25	mcr	PH01v	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-23 Date Collected: 02/27/25 08:44 Matrix: Ground Water
Sample ID: MW-27 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	0.21 mg/L	0.0088	1	03/04/25	cma	03/05/25	jlh		0.0051
Calcium	210 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	11 mg/L	0.050	1	03/04/25	cma	03/05/25	jlh		0.0075
Lithium	0.0058 mg/L	0.0025	1	03/04/25	cma	03/05/25	jlh	N	0.0019
Magnesium	52 mg/L	0.10	1	03/04/25	cma	03/05/25	jlh		0.010
Potassium	8.0 mg/L	0.25	1	03/04/25	cma	03/05/25	jlh		0.036
Sodium	99 mg/L	2.5	20	03/04/25	cma	03/05/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00012 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.00010
Arsenic	0.00070 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.25 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000075
Chromium	0.014 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.00046 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs	J	0.00010
Copper	<0.00020 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	<0.00010 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	<0.00025 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.00081 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00065
Selenium	0.00024 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	0.0010 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs	J	0.00062
Zinc	<0.0012 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-23 Date Collected: 02/27/25 08:44 Matrix: Ground Water
Sample ID: MW-27 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.25 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	97 mg/L	1.5	10	02/28/25	aeo	03/01/25	ljs		1.2
Sulfate as SO4	40 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	1100 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	1100 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	900 mg/L	20	2	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	20 mg/L	4.0	1	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	6.98 pH Units		1	02/27/25	mcr	02/27/25	mcr	PH01w	
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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-24 Date Collected: 02/27/25 08:15 Matrix: Ground Water
Sample ID: MW-28 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

Analysis Method: EPA 7470A

Batch: T163487

Mercury	<0.00016 mg/L	0.00020	1	03/06/25	ejb	03/06/25	acs		0.00016
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METALS, TOTAL

Analysis Method: EPA 200.7 Rev. 4.4

Batch: T163542

Boron	2.7 mg/L	0.0088	1	03/04/25	cma	03/06/25	jlh		0.0051
Calcium	230 mg/L	5.1	20	03/04/25	cma	03/05/25	jlh		0.74
Iron	43 mg/L	0.050	1	03/04/25	cma	03/06/25	jlh		0.0075
Lithium	0.084 mg/L	0.0025	1	03/04/25	cma	03/06/25	jlh	N	0.0019
Magnesium	39 mg/L	0.10	1	03/04/25	cma	03/06/25	jlh		0.010
Potassium	13 mg/L	0.25	1	03/04/25	cma	03/06/25	jlh		0.036
Sodium	80 mg/L	2.5	20	03/04/25	cma	03/05/25	jlh		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T163542

Antimony	0.00073 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00010
Arsenic	0.0020 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Barium	0.75 mg/L	0.0025	1	03/04/25	cma	03/04/25	acs		0.00068
Beryllium	<0.000052 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.000052
Cadmium	0.000091 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs	J	0.000075
Chromium	0.0075 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Cobalt	0.0020 mg/L	0.00052	1	03/04/25	cma	03/04/25	acs		0.00010
Copper	0.0013 mg/L	0.00025	1	03/04/25	cma	03/04/25	acs		0.00020
Lead	0.0052 mg/L	0.00055	1	03/04/25	cma	03/04/25	acs		0.00010
Molybdenum	0.0027 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00025
Nickel	0.0073 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00065
Selenium	0.00029 mg/L	0.00050	1	03/04/25	cma	03/04/25	acs	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	03/04/25	cma	03/04/25	acs		0.000050
Thallium	<0.000075 mg/L	0.00038	1	03/04/25	cma	03/04/25	acs		0.000075
Vanadium	<0.00062 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.00062
Zinc	0.083 mg/L	0.0012	1	03/04/25	cma	03/04/25	acs		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25B1012
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25B1012-24 Date Collected: 02/27/25 08:15 Matrix: Ground Water
Sample ID: MW-28 Date Received: 02/27/25 09:26

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
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METALS, TOTAL

WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T163526

Fluoride	0.94 mg/L	0.20	10	02/28/25	aeo	03/01/25	ljs	N	0.11
Chloride	240 mg/L	3.8	25	02/28/25	aeo	03/03/25	ljs		3.0
Sulfate as SO4	41 mg/L	6.0	10	02/28/25	aeo	03/01/25	ljs		2.2

Analysis Method: SM 2320 B-21

Batch: T163500

Bicarbonate Alkalinity as CaCO3 at pH 4.5	550 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.16 mg/L	5.0	1	02/28/25	bm	02/28/25	bm	N	0.16
Total Alkalinity as CaCO3 at pH 4.5	550 mg/L	5.0	1	02/28/25	bm	02/28/25	bm		0.16

Analysis Method: SM 2540 C-20

Batch: T163455

Total Dissolved Solids	1100 mg/L	40	4	02/27/25	mr	02/27/25	mr		
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Analysis Method: SM 2540 D-20

Batch: T163454

Total Suspended Solids	75 mg/L	4.0	1	02/27/25	mr	02/27/25	mr		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T163541

pH	6.99 pH Units		1	02/27/25	mcr	02/27/25	mcr	PH01x	
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QUALITY CONTROL RESULTS

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163419

Analysis Description: Mercury, Total, EPA 7470/7471

QC Batch Method: EPA 7470A Prep

Analysis Method: EPA 7470A

METHOD BLANK: T163419-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	mg/L	<0.00020	0.00020	

LABORATORY CONTROL SAMPLE: T163419-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	0.00210	105	80-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T163419-MSD1

Original: 25B1012-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	mg/L	0	0.00200	0.00236	0.00220	118	110	76-123	7	20	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163487

Analysis Description: Mercury, Total, EPA 7470/7471

QC Batch Method: EPA 7470A Prep

Analysis Method: EPA 7470A

METHOD BLANK: T163487-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	mg/L	<0.00020	0.00020	

LABORATORY CONTROL SAMPLE: T163487-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	0.00202	101	80-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T163487-MSD1

Original: 25B1012-10

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	mg/L	0	0.00200	0.00202	0.00197	101	99	76-123	2	20	

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Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163418

QC Batch Method: EPA 200.2

Analysis Description: Potassium, Total

Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T163418-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	0.00609	0.0088	J
Calcium	mg/L	<0.26	0.26	
Iron	mg/L	<0.050	0.050	
Potassium	mg/L	<0.25	0.25	
Lithium	mg/L	<0.0025	0.0025	
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T163418-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.60	1.52	95	85-115	
Calcium	mg/L	16.0	15.9	99	85-115	
Iron	mg/L	16.0	16.1	101	85-115	
Potassium	mg/L	16.0	15.6	97	85-115	
Lithium	mg/L	1.60	1.58	99	85-115	
Magnesium	mg/L	16.0	15.8	99	85-115	
Sodium	mg/L	16.0	15.6	98	85-115	

MATRIX SPIKE: T163418-MS1

Original: 25B1012-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	121	1.60	139	1160	70-130	MS09
Calcium	mg/L	189	16.0	226	237	70-130	MS09
Iron	mg/L	0	16.0	16.2	101	70-130	
Potassium	mg/L	85.3	16.0	103	109	70-130	
Lithium	mg/L	2.69	1.60	4.81	133	70-130	MS07
Magnesium	mg/L	120	16.0	155	215	70-130	MS09
Sodium	mg/L	406	16.0	487	512	70-130	MS09

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

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QC Batch: T163542

Analysis Description: Magnesium, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T163542-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Iron	mg/L	<0.050	0.050	
Potassium	mg/L	<0.25	0.25	
Lithium	mg/L	<0.0025	0.0025	
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T163542-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.60	1.54	96	85-115	
Calcium	mg/L	16.0	16.1	101	85-115	
Iron	mg/L	16.0	16.0	100	85-115	
Potassium	mg/L	16.0	15.1	95	85-115	
Lithium	mg/L	1.60	1.54	96	85-115	
Magnesium	mg/L	16.0	15.5	97	85-115	
Sodium	mg/L	16.0	15.2	95	85-115	

MATRIX SPIKE: T163542-MS1

Original: 25B1012-12

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	9.81	1.60	10.5	42	70-130	MS09
Calcium	mg/L	201	16.0	208	50	70-130	MS09
Iron	mg/L	4.58	16.0	18.7	88	70-130	
Potassium	mg/L	24.6	16.0	37.0	78	70-130	
Lithium	mg/L	0.169	1.60	1.71	96	70-130	
Magnesium	mg/L	113	16.0	123	63	70-130	MS09
Sodium	mg/L	105	16.0	114	60	70-130	MS09

MATRIX SPIKE: T163542-MS2

Original: 25B1012-11

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	3.68	1.60	4.59	57	70-130	MS07
Calcium	mg/L	365	16.0	355	-65	70-130	MS09
Iron	mg/L	0.616	16.0	17.9	108	70-130	

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MATRIX SPIKE: T163542-MS2

Original: **25B1012-11**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Potassium	mg/L	18.0	16.0	32.0	88	70-130	
Lithium	mg/L	0.0313	1.60	1.62	100	70-130	
Magnesium	mg/L	118	16.0	125	44	70-130	MS09
Sodium	mg/L	65.0	16.0	75.4	65	70-130	MS09

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163418

Analysis Description: Molybdenum, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T163418-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Copper	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Nickel	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T163418-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	0.0510	102	85-115	
Arsenic	mg/L	0.100	0.0969	97	85-115	
Barium	mg/L	1.60	1.67	105	85-115	
Beryllium	mg/L	0.200	0.191	95	85-115	
Cadmium	mg/L	0.0500	0.0483	97	85-115	
Cobalt	mg/L	1.60	1.46	91	85-115	

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LABORATORY CONTROL SAMPLE: T163418-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chromium	mg/L	0.0500	0.0467	93	85-115	
Copper	mg/L	1.60	1.45	90	85-115	
Molybdenum	mg/L	1.60	1.54	96	85-115	
Nickel	mg/L	1.60	1.42	89	85-115	
Lead	mg/L	0.100	0.0939	94	85-115	
Antimony	mg/L	0.100	0.110	110	85-115	
Selenium	mg/L	0.100	0.0986	99	85-115	
Thallium	mg/L	0.100	0.0926	93	85-115	
Vanadium	mg/L	1.60	1.45	91	85-115	
Zinc	mg/L	1.60	1.53	96	85-115	

MATRIX SPIKE: T163418-MS1

Original: 25B1012-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0481	96	70-130	
Arsenic	mg/L	0.00129	0.100	0.100	99	70-130	
Barium	mg/L	0.382	1.60	2.38	125	70-130	
Beryllium	mg/L	0	0.200	0.171	86	70-130	
Cadmium	mg/L	0	0.0500	0.0462	92	70-130	
Cobalt	mg/L	0.00108	1.60	1.37	85	70-130	
Chromium	mg/L	0.00192	0.0500	0.0475	91	70-130	
Copper	mg/L	0	1.60	1.30	81	70-130	
Molybdenum	mg/L	0	1.60	1.70	106	70-130	
Nickel	mg/L	0	1.60	1.29	80	70-130	
Lead	mg/L	0.000875	0.100	0.0859	85	70-130	
Antimony	mg/L	0	0.100	0.124	124	70-130	
Selenium	mg/L	0.000642	0.100	0.0772	77	70-130	
Thallium	mg/L	0	0.100	0.0848	85	70-130	
Vanadium	mg/L	0	1.60	1.37	86	70-130	
Zinc	mg/L	0.0326	1.60	1.41	86	70-130	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163542

Analysis Description: Copper, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8 Rev. 5.4

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METHOD BLANK: T163542-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Arsenic	mg/L	0.000119	0.00055	J
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	0.0000919	0.00025	J
Cadmium	mg/L	0.000109	0.00025	J
Cobalt	mg/L	0.000134	0.00052	J
Chromium	mg/L	0.000206	0.00025	J
Copper	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Nickel	mg/L	<0.0012	0.0012	
Lead	mg/L	0.000128	0.00055	J
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	0.000129	0.00050	J
Thallium	mg/L	0.000121	0.00038	J
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T163542-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	0.0499	100	85-115	
Arsenic	mg/L	0.100	0.101	101	85-115	
Barium	mg/L	1.60	1.55	97	85-115	
Beryllium	mg/L	0.200	0.193	97	85-115	
Cadmium	mg/L	0.0500	0.0440	88	85-115	
Cobalt	mg/L	1.60	1.54	96	85-115	
Chromium	mg/L	0.0500	0.0504	101	85-115	
Copper	mg/L	1.60	1.49	93	85-115	
Molybdenum	mg/L	1.60	1.60	100	85-115	
Nickel	mg/L	1.60	1.47	92	85-115	
Lead	mg/L	0.100	0.0940	94	85-115	
Antimony	mg/L	0.100	0.103	103	85-115	
Selenium	mg/L	0.100	0.0963	96	85-115	
Thallium	mg/L	0.100	0.0940	94	85-115	
Vanadium	mg/L	1.60	1.59	99	85-115	
Zinc	mg/L	1.60	1.47	92	85-115	

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MATRIX SPIKE: T163542-MS1

Original: **25B1012-12**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0473	95	70-130	
Arsenic	mg/L	0.000511	0.100	0.103	103	70-130	
Barium	mg/L	1.28	1.60	2.68	88	70-130	
Beryllium	mg/L	0	0.200	0.180	90	70-130	
Cadmium	mg/L	0	0.0500	0.0421	84	70-130	
Cobalt	mg/L	0	1.60	1.49	93	70-130	
Chromium	mg/L	0.00109	0.0500	0.0511	100	70-130	
Copper	mg/L	0	1.60	1.36	85	70-130	
Molybdenum	mg/L	0	1.60	1.73	108	70-130	
Nickel	mg/L	0	1.60	1.38	86	70-130	
Lead	mg/L	0	0.100	0.0870	87	70-130	
Antimony	mg/L	0	0.100	0.102	102	70-130	
Selenium	mg/L	0	0.100	0.0903	90	70-130	
Thallium	mg/L	0	0.100	0.0896	90	70-130	
Vanadium	mg/L	0	1.60	1.61	100	70-130	
Zinc	mg/L	0	1.60	1.30	81	70-130	

MATRIX SPIKE: T163542-MS2

Original: **25B1012-11**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0482	96	70-130	
Arsenic	mg/L	0.00282	0.100	0.108	106	70-130	
Barium	mg/L	0.164	1.60	1.72	97	70-130	
Beryllium	mg/L	0	0.200	0.170	85	70-130	
Cadmium	mg/L	0	0.0500	0.0426	85	70-130	
Cobalt	mg/L	0	1.60	1.68	105	70-130	
Chromium	mg/L	0.00275	0.0500	0.0627	120	70-130	
Copper	mg/L	0	1.60	1.49	93	70-130	
Molybdenum	mg/L	0.00230	1.60	1.79	112	70-130	
Nickel	mg/L	0.0118	1.60	1.54	96	70-130	
Lead	mg/L	0	0.100	0.0877	88	70-130	
Antimony	mg/L	0	0.100	0.102	102	70-130	
Selenium	mg/L	0	0.100	0.0922	92	70-130	
Thallium	mg/L	0	0.100	0.0903	90	70-130	
Vanadium	mg/L	0	1.60	1.95	122	70-130	
Zinc	mg/L	0	1.60	1.35	85	70-130	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

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QC Batch: T163395

Analysis Description: Chloride

QC Batch Method: IC Prep W

Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T163395-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T163395-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	mg/L	5.00	<10	99	90-110	J
Fluoride	mg/L	1.00	1.04	104	90-110	
Sulfate as SO4	mg/L	5.00	5.16	103	90-110	

MATRIX SPIKE: T163395-MS1

Original: 25B1012-09

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	51.2	50.0	99.3	96	80-120	
Fluoride	mg/L	1.28	10.0	11.6	103	80-120	
Sulfate as SO4	mg/L	26.7	50.0	78.1	103	80-120	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163526

Analysis Description: Sulfate

QC Batch Method: IC Prep W

Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T163526-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T163526-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	mg/L	5.00	<10	100	90-110	J
Fluoride	mg/L	1.00	1.06	106	90-110	
Sulfate as SO4	mg/L	5.00	5.18	104	90-110	

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Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163497

QC Batch Method: SM 2320 B-21

Analysis Description: Alkalinity, Bicarbonate

Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T163497-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	mg/L	100	95.2	95	88-112	
Carbonate Alkalinity as CaCO ₃ at pH 8.2	mg/L	100	95.2	95	88-112	
Total Alkalinity as CaCO ₃ at pH 4.5	mg/L	100	95.2	95	88-112	

SAMPLE DUPLICATE: T163497-DUP1

Original: 25B1012-01

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	mg/L	1330	1350	1	20	
Carbonate Alkalinity as CaCO ₃ at pH 8.2	mg/L	0	<10		20	
Total Alkalinity as CaCO ₃ at pH 4.5	mg/L	1330	1350	1	20	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163500

QC Batch Method: SM 2320 B-21

Analysis Description: Alkalinity, Total

Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T163500-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	mg/L	100	95.2	95	88-112	
Carbonate Alkalinity as CaCO ₃ at pH 8.2	mg/L	100	95.2	95	88-112	
Total Alkalinity as CaCO ₃ at pH 4.5	mg/L	100	95.2	95	88-112	

SAMPLE DUPLICATE: T163500-DUP1

Original: 25B1012-24

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	mg/L	546	556	2	20	
Carbonate Alkalinity as CaCO ₃ at pH 8.2	mg/L	0	<10		20	

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SAMPLE DUPLICATE: T163500-DUP1

Original: 25B1012-24

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Alkalinity as CaCO ₃ at pH 4.5	mg/L	546	556	2	20	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163415

Analysis Description: Total Dissolved Solids

QC Batch Method: SM 2540 C-20

Analysis Method: SM 2540 C-20

METHOD BLANK: T163415-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	<10	10	

LABORATORY CONTROL SAMPLE: T163415-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500	500	100	80-120	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163455

Analysis Description: Total Dissolved Solids

QC Batch Method: SM 2540 C-20

Analysis Method: SM 2540 C-20

METHOD BLANK: T163455-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	3.00	10	J

LABORATORY CONTROL SAMPLE: T163455-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500	496	99	80-120	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163414

Analysis Description: Total Suspended Solids

QC Batch Method: SM 2540 D-20

Analysis Method: SM 2540 D-20

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METHOD BLANK: T163414-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

LABORATORY CONTROL SAMPLE: T163414-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100	91.8	92	85-115	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163454

Analysis Description: Total Suspended Solids

QC Batch Method: SM 2540 D-20

Analysis Method: SM 2540 D-20

METHOD BLANK: T163454-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

LABORATORY CONTROL SAMPLE: T163454-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100	93.9	94	85-115	

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163534

Analysis Description: pH, SM 4500

QC Batch Method: *** DEFAULT PREP ***

Analysis Method: SM 4500-H+ B-11

SAMPLE DUPLICATE: T163534-DUP1

Original: 25B1012-01

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	pH Units	7.77	7.77	0	20	PH01a

Trace Project ID: 25B1012

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T163541

Analysis Description: pH, SM 4500

QC Batch Method: *** DEFAULT PREP ***

Analysis Method: SM 4500-H+ B-11

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SAMPLE DUPLICATE: T163541-DUP1

Original: 25B1012-10

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	pH Units	7.47	7.29	2	20	PH01k

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
LOQ	Limit of Quantitation
LOD	Limit of Detection
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

DATA QUALIFIERS

Trace ID: 25B1012-01

Analysis: EPA 200.7 Rev. 4.4

Lithium	Note MS07 : The MS recovery was out of control. The result for this analyte, in the non-spiked version of the sample, must be considered estimated.
----------------	---

Analysis: EPA 200.8 Rev. 5.4

Lead	Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.
-------------	---

Thallium	Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.
-----------------	---

Analysis: SM 4500-H+ B-11

pH	Note PH01 : The pH was analyzed at 09:17
-----------	--

Trace ID: 25B1012-02

Analysis: EPA 200.8 Rev. 5.4

Thallium	Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.
-----------------	---

Analysis: SM 4500-H+ B-11

pH	Note PH01b : The pH was analyzed at 09:20
-----------	---

Trace ID: 25B1012-03

Analysis: EPA 200.8 Rev. 5.4

Lead	Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.
-------------	---

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Thallium

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Analysis: SM 4500-H+ B-11

pH

Note PH01c : The pH was analyzed at 09:21

Trace ID: 25B1012-04

Analysis: SM 4500-H+ B-11

pH

Note PH01d : The pH was analyzed at 09:22

Trace ID: 25B1012-05

Analysis: SM 4500-H+ B-11

pH

Note PH01e : The pH was analyzed at 09:23

Trace ID: 25B1012-06

Analysis: EPA 200.8 Rev. 5.4

Antimony

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Arsenic

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Beryllium

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Cadmium

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Copper

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Lead

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Selenium

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Silver

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Thallium

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Vanadium

Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Analysis: SM 4500-H+ B-11

pH

Note PH01f : The pH was analyzed at 09:24

Trace ID: 25B1012-07

Analysis: SM 4500-H+ B-11

pH

Note PH01g : The pH was analyzed at 09:25

Trace ID: 25B1012-08

Analysis: SM 4500-H+ B-11

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pH	Note PH01h : The pH was analyzed at 09:26
----	---

Trace ID: 25B1012-09

Analysis: SM 4500-H+ B-11

pH	Note PH01i : The pH was analyzed at 09:27
----	---

Trace ID: 25B1012-10

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time. The result must be considered estimated.
----	--

pH	Note PH01j : The pH was analyzed at 10:35
----	---

Trace ID: 25B1012-11

Analysis: EPA 200.7 Rev. 4.4

Boron	Note MS07 : The MS recovery was out of control. The result for this analyte, in the non-spiked version of the sample, must be considered estimated.
-------	---

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time. The result must be considered estimated.
----	--

pH	Note PH01l : The pH was analyzed at 10:37
----	---

Trace ID: 25B1012-12

Analysis: SM 4500-H+ B-11

pH	Note PH01m : The pH was analyzed at 10:38
----	---

Trace ID: 25B1012-13

Analysis: SM 4500-H+ B-11

pH	Note PH01n : The pH was analyzed at 10:40
----	---

Trace ID: 25B1012-14

Analysis: SM 4500-H+ B-11

pH	Note PH01o : The pH was analyzed at 10:41
----	---

Trace ID: 25B1012-15

Analysis: SM 4500-H+ B-11

pH	Note PH01p : The pH was analyzed at 10:42
----	---

Trace ID: 25B1012-16

Analysis: SM 4500-H+ B-11

pH	Note PH01q : The pH was analyzed at 10:44
----	---

Trace ID: 25B1012-17

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Analysis: SM 4500-H+ B-11

pH Note PH01r : The pH was analyzed at 10:45

Trace ID: 25B1012-18

Analysis: SM 4500-H+ B-11

pH Note PH01s : The pH was analyzed at 10:46

Trace ID: 25B1012-19

Analysis: SM 4500-H+ B-11

pH Note PH01s : The pH was analyzed at 10:46

Trace ID: 25B1012-20

Analysis: SM 4500-H+ B-11

pH Note PH01t : The pH was analyzed at 10:47

Trace ID: 25B1012-21

Analysis: SM 4500-H+ B-11

pH Note PH01u : The pH was analyzed at 10:48

Trace ID: 25B1012-22

Analysis: SM 4500-H+ B-11

pH Note PH01v : The pH was analyzed at 10:49

Trace ID: 25B1012-23

Analysis: SM 4500-H+ B-11

pH Note PH01w : The pH was analyzed at 10:50

Trace ID: 25B1012-24

Analysis: SM 4500-H+ B-11

pH Note PH01x : The pH was analyzed at 10:51

Trace ID: T163418-MS1

Analysis: EPA 200.7 Rev. 4.4

Boron Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Calcium Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Lithium Note MS07 : The MS recovery was out of control. The result for this analyte, in the non-spiked version of the sample, must be considered estimated.

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Magnesium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Sodium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Trace ID: T163534-DUP1

Analysis: SM 4500-H+ B-11

pH

Note PH01a : The pH was analyzed at 09:19

Trace ID: T163541-DUP1

Analysis: SM 4500-H+ B-11

pH

Note PH01k : The pH was analyzed at 10:36

Trace ID: T163542-MS1

Analysis: EPA 200.7 Rev. 4.4

Boron

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Calcium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Magnesium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Sodium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Trace ID: T163542-MS2

Analysis: EPA 200.7 Rev. 4.4

Boron

Note MS07 : The MS recovery was out of control. The result for this analyte, in the non-spiked version of the sample, must be considered estimated.

Calcium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Magnesium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Sodium

Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

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Page _____ of _____

Trace ID No.
25B1012

Report Results To:

Bill To:

Trace Use:

Company Name:	HDR Inc.	PO #:	10337505
Report To:	Molly Reeves	Contact Name:	Lara Zawajda
Mailing Address:	1000 Oakbrook Drive, Suite 200	Billing Address (if different):	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor, MI 48104	City, State, Zip Code:	Ann Arbor, MI 48104
Office Phone:		Phone Number:	734-223-9074
Email Address:	molly.reeves@hdrinc.com	Billing Email Address:	lara.zawajda@hdrinc.com

Logged By:	AM	
Checked By:	ME	
Soil Vapors Preserved (circle if applicable):		
MeOH	Low Level	Lab
Sample Collection Time (Hrs):		

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
* Rush TAT Requires Prior Approval

Matrix Key:

- WW = Wastewater
DW = Drinking Water
GW = Groundwater
LW = Liquid Waste
O = Oil
WI = Wipes
S = Solid
SL = Sludge
A = Air
U = Unknown

Project Name:		Grand Haven Harbor Island	
Sampled By (print):		Andrew Byls & Anya Thomson	
Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name
1	2/25/25	16:28	MW-01R
2	2/25/25	12:12	MW-02
3	2/25/25	4:06	MW-09
4	2/25/25	1:47	MW-11
5	2/25/25	15:12	MW-16
6	2/25/25	13:52	MW-30
7	2/25/25	10:50	MW-31
8	2/25/25	12:12	MW-32
9	2/25/25	12:12	MW-32
Released By		Date	Time
3) Andrew Byls		2/25/25	10:21
4) Anya Thomson		2/25/25	10:21
Released By		Date	Time
Received By		Date	Time
Remarks/Notes		Possible Health Hazards?	

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25B1012
HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 2.26.25	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 824									
Initials: CM									
Package Description: Cooler									
Package Temp °C	-5.7	-5.7							
Representative Sample Temp °C	3.3	3.3							

Sample Receipt

Yes No

- ☒ ☐ Received on ice or other coolant
☒ ☐ Ice still present upon receipt
☐ ☐ Custody seals present
☐ Trace Courier ☒ Client Drop-off
☐ Yes ☐ No Custody seals intact (if applicable)
☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A

- ☒ ☐ ☐ All sample containers arrived unbroken and labeled
☒ ☐ ☐ Sufficient sample to run requested analyses
☒ ☐ ☐ Correct chemical preservative added to samples
☒ ☐ ☐ Samples preserved at Trace
☒ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)
☒ pH 0-2.5 (Lot: HC311850) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐ ☐ ☒ Air bubbles absent from VOAs

Chain of Custody (COC)

Yes No

- ☒ ☐ All bottle labels agree with COC
☒ ☐ COC filled out properly
☒ ☐ COC signed by client

Notes:

MW-DIR

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25B1012
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 2.26.25	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 830									
Initials: CM									
Package Description: cooler									
Package Temp °C	-1.4	-1.4							
Representative Sample Temp °C	4.9	4.9							

Sample Receipt

Yes No

☒ ☐ Received on ice or other coolant

☒ ☐ Ice still present upon receipt

☐ ☒ Custody seals present

☐ Trace Courier ☒ Client Drop-off

☐ Yes ☐ No Custody seals intact (if applicable)

☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A

☒ ☐ ☐ All sample containers arrived unbroken and labeled

☒ ☐ ☐ Sufficient sample to run requested analyses

☒ ☐ ☐ Correct chemical preservative added to samples

☐ ☒ ☐ Samples preserved at Trace

☒ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)

☐ ☐ ☒ pH 0-2.5 (Lot: HC311850) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other

☐ ☐ ☒ Air bubbles absent from VOAs

Chain of Custody (COC)

Yes No

☒ ☐ All bottle labels agree with COC

☒ ☐ COC filled out properly

☒ ☐ COC signed by client

Notes:

MW-02
MW-09
MW-11
MW-16

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25B1012
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 7-26-25	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 827									
Initials: CM									
Package Description: Cooler									
Package Temp °C	-6.9	-6.9							
Representative Sample Temp °C	5.4	5.4							

Sample Receipt

Yes No

☒ ☐ Received on ice or other coolant

☒ ☐ Ice still present upon receipt

☐ ☒ Custody seals present

☐ Trace Courier ☒ Client Drop-off

☐ Yes ☐ No Custody seals intact (if applicable)

☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A

☒ ☐ ☐ All sample containers arrived unbroken and labeled

☒ ☐ ☐ Sufficient sample to run requested analyses

☒ ☐ ☐ Correct chemical preservative added to samples

☐ ☒ ☐ Samples preserved at Trace

☒ ☐ ☐ Chemical preservation verified, check EMD pH test strip used (if applicable)

☐ ☐ ☒ pH 0-2.5 (Lot: HC311850) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other

☐ ☐ ☒ Air bubbles absent from VOAs

Chain of Custody (COC)

Yes No

☒ ☐ All bottle labels agree with COC

☒ ☐ COC filled out properly

☒ ☐ COC signed by client

Notes:

MW-30
MW-31
MW-32
MWT-32

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Page 72 of 77

一、二、三、四、五

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Page 2 of 2

Trace ID No. Z5B1017

Trace Use:

Logged By: _____

Soil Volatiles Preserved (circle if applicable)

MeOH	Low Level	La
------	-----------	----

Remarks/Notes

100

天

Date	T
------	---

[illegible]

Carroll

Page 73 of 77

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673



231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

25B1012
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 2/27/25	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 9:49									
Initials: SB									
Package Description: cooler									
Package Temp °C	0.2	0.2			X				
Representative Sample Temp °C	5.6	5.6			X				X

Sample Receipt

Yes No

☒ Received on ice or other coolant
☐ Ice still present upon receipt
☒ Custody seals present
☒ Trace Courier ☐ Client Drop-off

☐ Yes ☐ No Custody seals intact (if applicable)
☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A

☒ All sample containers arrived unbroken and labeled
☒ Sufficient sample to run requested analyses
☒ Correct chemical preservative added to samples
☒ Samples preserved at Trace
☒ Chemical preservation verified, check EMD pH test strip used (if applicable)
☒ pH 0-2.5 (Lot: HC311850) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐ Air bubbles absent from VOAs

Chain of Custody (COC)

Yes No

☒ All bottle labels agree with COC
☒ COC filled out properly
☒ COC signed by client

Notes:

MW-27
MW-29

NO temp blank

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25B1012

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 2/27/25	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 949									
Initials: SB									
Package Description: Cooler									
Package Temp °C	0.4	0.4							
Representative Sample Temp °C	6.0	6.0							

Sample Receipt

Yes No

- ☒ Received on ice or other coolant
☒ Ice still present upon receipt
☐ Custody seals present
☒ Trace Courier ☐ Client Drop-off
☐ Yes ☐ No Custody seals intact (if applicable)
☐ UPS ☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes No N/A

- ☒ All sample containers arrived unbroken and labeled
☒ Sufficient sample to run requested analyses
☒ Correct chemical preservative added to samples
☐ Samples preserved at Trace
☒ Chemical preservation verified, check EMD pH test strip used (if applicable)
☒ pH 0-2.5 (Lot: HC311850) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐ Air bubbles absent from VOAs

Chain of Custody (COC)

Yes No

- ☒ All bottle labels agree with COC
☒ COC filled out properly
☒ COC signed by client

Notes:

MW-10
MW-19
MW-18

NO Temp blank

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25B1012
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 2/27/25	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 949									
Initials: SB									
Package Description: cooler									
Package Temp °C	0.2	0.2			X				
Representative Sample Temp °C	2.6	2.2				X		X	

Sample Receipt

Yes	No	
☒	☐	Received on ice or other coolant
☒	☐	Ice still present upon receipt
☐	☒	Custody seals present
☒	☐	Trace Courier
☐	☐	Client Drop-off
☐	☐	Custody seals intact (if applicable)
☐	☐	UPS
☐	☐	Fed Ex
☐	☐	US Mail
☐	☐	Other

Sample Condition

Yes	No	N/A	
☒	☐	☐	All sample containers arrived unbroken and labeled
☒	☐	☐	Sufficient sample to run requested analyses
☒	☐	☐	Correct chemical preservative added to samples
☒	☐	☐	Samples preserved at Trace
☒	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)
☐	☐	☒	pH 0-2.5 (Lot: HC311850)
☐	☐	☐	pH 11.0-13.0 (Lot: HC022540)
☐	☐	☐	Other
☐	☐	☒	Air bubbles absent from VOAs

Chain of Custody (COC)

Yes	No	
☒	☐	All bottle labels agree with COC
☒	☐	COC filled out properly
☒	☐	COC signed by client

Notes:

MW-04
MW-03
MW-34
MW-08
MW-12

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www.trace-labs.com

Sample Log In Checklist

25B1012
HDR Michigan Inc.
Project Manager: Jon Mink

Date: 2/27/25	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 949									
Initials: SB									
Package Description: Cooler									
Package Temp °C	1.10	1.10			X				
Representative Sample Temp °C	9.10	9.10			X				X

Sample Receipt

Yes	No	
☒	☐	Received on ice or other coolant
☒	☐	Ice still present upon receipt
☐	☒	Custody seals present
☒	☐	Trace Courier
☐	☐	Client Drop-off
☐	☐	Yes
☐	☐	No
☐	☐	Custody seals intact (if applicable)
☐	☐	UPS
☐	☐	Fed Ex
☐	☐	US Mail
☐	☐	Other

Sample Condition

Yes	No	N/A	
☒	☐	☐	All sample containers arrived unbroken and labeled
☒	☐	☐	Sufficient sample to run requested analyses
☒	☐	☐	Correct chemical preservative added to samples
☒	☐	☐	Samples preserved at Trace
☒	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)
☐	☐	☒	pH 0-2.5 (Lot: HC311850)
☐	☐	☐	pH 11.0-13.0 (Lot: HC022540)
☐	☐	☐	Other
☐	☐	☒	Air bubbles absent from VOAs

Chain of Custody (COC)

Yes	No	
☒	☐	All bottle labels agree with COC
☒	☐	COC filled out properly
☒	☐	COC signed by client

Notes:

MW-20
MW-07
MW-36
MW-39
MW-06

NO temp blank

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jon Mink
Trace Analytical Laboratories
2241 Black Creek Road
Muskegon MI 49444

Generated 03/18/2025

JOB DESCRIPTION

25B0049

JOB NUMBER

810-137232-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
03/18/2025

Authorized for release by
Karen Fullmer, Project Manager
Karen.Fullmer@et.eurofinsus.com
574 233-4777

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Definitions/Glossary

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
810-137232-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/10/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Client Sample ID: MW-37

Lab Sample ID: 810-137232-1

No Detections.

Client Sample ID: PZ-17

Lab Sample ID: 810-137232-2

No Detections.

Client Sample ID: MW-33

Lab Sample ID: 810-137232-3

No Detections.

Client Sample ID: MWT-33

Lab Sample ID: 810-137232-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Client Sample ID: MW-37

Lab Sample ID: 810-137232-1

Date Collected: 02/03/25 12:18

Matrix: Ground Water

Date Received: 02/10/25 09:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.950		0.71610		1.00	0.550	pCi/L		03/18/25 15:37	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.670		0.580		1.00	0.550	pCi/L	02/11/25 09:31	03/06/25 11:25	1

Method: SM7500 Ra D - Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-228	0.280	U	0.420		1.00	0.430	pCi/L	02/11/25 09:42	03/17/25 12:22	1

Client Sample ID: PZ-17

Lab Sample ID: 810-137232-2

Date Collected: 02/03/25 14:14

Matrix: Ground Water

Date Received: 02/10/25 09:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.580		0.53009		1.00	0.530	pCi/L		03/18/25 15:37	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.0300	U	0.310		1.00	0.530	pCi/L	02/11/25 09:31	03/06/25 11:25	1

Method: SM7500 Ra D - Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-228	0.580		0.430		1.00	0.420	pCi/L	02/11/25 09:42	03/17/25 12:22	1

Client Sample ID: MW-33

Lab Sample ID: 810-137232-3

Date Collected: 02/03/25 16:45

Matrix: Ground Water

Date Received: 02/10/25 09:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.310	U	0.57385		1.00	0.590	pCi/L		03/18/25 15:37	1

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Client Sample ID: MW-33

Lab Sample ID: 810-137232-3

Date Collected: 02/03/25 16:45

Matrix: Ground Water

Date Received: 02/10/25 09:00

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.0300	U	0.380		1.00	0.590	pCi/L	02/11/25 09:31	03/06/25 11:25	1

Method: SM7500 Ra D - Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-228	0.310	U	0.430		1.00	0.440	pCi/L	02/11/25 09:42	03/17/25 12:22	1

Client Sample ID: MWT-33

Lab Sample ID: 810-137232-4

Date Collected: 02/03/25 17:00

Matrix: Ground Water

Date Received: 02/10/25 09:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.720		0.67941		1.00	0.550	pCi/L		03/18/25 15:37	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.270	U	0.460		1.00	0.550	pCi/L	02/11/25 09:31	03/06/25 11:25	1

Method: SM7500 Ra D - Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-228	0.450	U	0.500		1.00	0.500	pCi/L	02/11/25 09:42	03/17/25 12:22	1

Action Limit Summary

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Client Sample ID: MW-37

Lab Sample ID: 810-137232-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Radium 226 and 228	0.950		pCi/L	5	1.00	Ra226_Ra228 Pos	Total/NA

Client Sample ID: PZ-17

Lab Sample ID: 810-137232-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Radium 226 and 228	0.580		pCi/L	5	1.00	Ra226_Ra228 Pos	Total/NA

Client Sample ID: MW-33

Lab Sample ID: 810-137232-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Radium 226 and 228	0.310	U	pCi/L	5	1.00	Ra226_Ra228 Pos	Total/NA

Client Sample ID: MWT-33

Lab Sample ID: 810-137232-4

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Radium 226 and 228	0.720		pCi/L	5	1.00	Ra226_Ra228 Pos	Total/NA

QC Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-132638/1-A
Matrix: Drinking Water
Analysis Batch: 135611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132638

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.2300	U	0.210		1.00	0.490	pCi/L	02/11/25 09:31	03/06/25 11:25	1

Lab Sample ID: LCS 810-132638/2-A
Matrix: Drinking Water
Analysis Batch: 135611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132638

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	5.06	4.570			1.00	0.430	pCi/L	90	90 - 110

Lab Sample ID: 810-137232-2 MS
Matrix: Ground Water
Analysis Batch: 135611

Client Sample ID: PZ-17
Prep Type: Total/NA
Prep Batch: 132638

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	-0.0300	U	5.57	5.350			1.00	0.520	pCi/L	96	80 - 120

Lab Sample ID: 810-137232-2 MSD
Matrix: Ground Water
Analysis Batch: 135611

Client Sample ID: PZ-17
Prep Type: Total/NA
Prep Batch: 132638

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Ra-226	-0.0300	U	5.57	4.970			1.00	0.680	pCi/L	89	80 - 120	0.14	

Method: SM7500 Ra D - Radium-228

Lab Sample ID: MB 810-132640/1-A
Matrix: Drinking Water
Analysis Batch: 137073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132640

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-228	-0.2100	U	0.340		1.00	0.390	pCi/L	02/11/25 09:42	03/17/25 12:22	1

Lab Sample ID: LCS 810-132640/2-A
Matrix: Drinking Water
Analysis Batch: 137073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132640

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-228	4.02	4.460			1.00	0.540	pCi/L	111	80 - 120

QC Association Summary

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Rad

Prep Batch: 132638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-137232-1	MW-37	Total/NA	Ground Water	RAD Prep	
810-137232-2	PZ-17	Total/NA	Ground Water	RAD Prep	
810-137232-3	MW-33	Total/NA	Ground Water	RAD Prep	
810-137232-4	MWT-33	Total/NA	Ground Water	RAD Prep	
MB 810-132638/1-A	Method Blank	Total/NA	Drinking Water	RAD Prep	
LCS 810-132638/2-A	Lab Control Sample	Total/NA	Drinking Water	RAD Prep	
810-137232-2 MS	PZ-17	Total/NA	Ground Water	RAD Prep	
810-137232-2 MSD	PZ-17	Total/NA	Ground Water	RAD Prep	

Prep Batch: 132640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-137232-1	MW-37	Total/NA	Ground Water	RAD Prep	
810-137232-2	PZ-17	Total/NA	Ground Water	RAD Prep	
810-137232-3	MW-33	Total/NA	Ground Water	RAD Prep	
810-137232-4	MWT-33	Total/NA	Ground Water	RAD Prep	
MB 810-132640/1-A	Method Blank	Total/NA	Drinking Water	RAD Prep	
LCS 810-132640/2-A	Lab Control Sample	Total/NA	Drinking Water	RAD Prep	

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Client Sample ID: MW-37

Date Collected: 02/03/25 12:18

Date Received: 02/10/25 09:00

Lab Sample ID: 810-137232-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Ra226_Ra228 Pos		1	137102	JW	EA SB	03/18/25 15:37
Total/NA	Prep	RAD Prep			132638	VH	EA SB	02/11/25 09:31
Total/NA	Analysis	SM7500 Ra B		1	135611	SM	EA SB	03/06/25 11:25 - 03/06/25 11:55 ¹
Total/NA	Prep	RAD Prep			132640	VH	EA SB	02/11/25 09:42
Total/NA	Analysis	SM7500 Ra D		1	137073	OO	EA SB	03/17/25 12:22 - 03/17/25 15:22 ¹

Client Sample ID: PZ-17

Date Collected: 02/03/25 14:14

Date Received: 02/10/25 09:00

Lab Sample ID: 810-137232-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Ra226_Ra228 Pos		1	137102	JW	EA SB	03/18/25 15:37
Total/NA	Prep	RAD Prep			132638	VH	EA SB	02/11/25 09:31
Total/NA	Analysis	SM7500 Ra B		1	135611	SM	EA SB	03/06/25 11:25 - 03/06/25 11:55 ¹
Total/NA	Prep	RAD Prep			132640	VH	EA SB	02/11/25 09:42
Total/NA	Analysis	SM7500 Ra D		1	137073	OO	EA SB	03/17/25 12:22 - 03/17/25 15:22 ¹

Client Sample ID: MW-33

Date Collected: 02/03/25 16:45

Date Received: 02/10/25 09:00

Lab Sample ID: 810-137232-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Ra226_Ra228 Pos		1	137102	JW	EA SB	03/18/25 15:37
Total/NA	Prep	RAD Prep			132638	VH	EA SB	02/11/25 09:31
Total/NA	Analysis	SM7500 Ra B		1	135611	SM	EA SB	03/06/25 11:25 - 03/06/25 11:55 ¹
Total/NA	Prep	RAD Prep			132640	VH	EA SB	02/11/25 09:42
Total/NA	Analysis	SM7500 Ra D		1	137073	OO	EA SB	03/17/25 12:22 - 03/17/25 15:22 ¹

Client Sample ID: MWT-33

Date Collected: 02/03/25 17:00

Date Received: 02/10/25 09:00

Lab Sample ID: 810-137232-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Ra226_Ra228 Pos		1	137102	JW	EA SB	03/18/25 15:37
Total/NA	Prep	RAD Prep			132638	VH	EA SB	02/11/25 09:31
Total/NA	Analysis	SM7500 Ra B		1	135611	SM	EA SB	03/06/25 11:25 - 03/06/25 11:55 ¹
Total/NA	Prep	RAD Prep			132640	VH	EA SB	02/11/25 09:42
Total/NA	Analysis	SM7500 Ra D		1	137073	OO	EA SB	03/17/25 12:22 - 03/17/25 15:22 ¹

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Michigan	State	9926	12-31-25
The following analytes are included in this report, but the laboratory is not certified by Michigan State 9926. This list may include analytes for which the agency does not offer certification :			
Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228 Pos		Ground Water	Radium 226 and 228
SM7500 Ra B	RAD Prep	Ground Water	Ra-226
SM7500 Ra D	RAD Prep	Ground Water	Ra-228

Method Summary

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Method	Method Description	Protocol	Laboratory
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EA SB
SM7500 Ra B	Radium-226	SM	EA SB
SM7500 Ra D	Radium-228	SM	EA SB
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: Trace Analytical Laboratories
Project/Site: 25B0049

Job ID: 810-137232-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-137232-1	MW-37	Ground Water	02/03/25 12:18	02/10/25 09:00
810-137232-2	PZ-17	Ground Water	02/03/25 14:14	02/10/25 09:00
810-137232-3	MW-33	Ground Water	02/03/25 16:45	02/10/25 09:00
810-137232-4	MWT-33	Ground Water	02/03/25 17:00	02/10/25 09:00

Shipping and Receiving Documents



Eaton Analytical

110
Source
T: 1
F: 1



810-137232 Chain of Custody

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page _____ of _____

Shaded area for EEA use only

REPORT TO:		SAMPLER (Signature)		PWS ID #		STATE (sample origin)		PROJECT NAME		PO#		# OF CONTAINERS		MATRIX CODE	
Jon Mink, Tim Brewer (mink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998						MI		25B0049		25B0049					
BILL TO:		COMPLIANCE MONITORING		Yes		No		POPULATION SERVED		SOURCE WATER		CHLORINATED		TURNAROUND TIME	
Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444		X										YES NO			
LAB Number		COLLECTION		SAMPLING SITE		TEST NAME		SAMPLE REMARKS							
1		DATE TIME AM PM		MW-37		Radium 226/228		Level IV				1		SW	
2		02/03/25 12:18				PZ-17		Radium 226/228		Report with		1		SW	
3		02/03/25 14:14				MW-33		Radium 226/228		St. Louis		1		SW	
4		02/03/25 16:45				MWT-33		Radium 226/228		EDD		1		SW	
5		02/03/25 17:00													
6															
7															
8															
9															
10															
11															
12															
13															
14															

RELINQUISHED BY: (Signature)		DATE		TIME		RECEIVED BY: (Signature)		DATE		TIME		LAB COMMENTS	
Michelle Johnson		2/7/25		17:00		Fedex		2/7/25		17:00		LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	
RELINQUISHED BY: (Signature)		DATE		TIME		RECEIVED BY: (Signature)		DATE		TIME			
Fedex		02/04/25		17:00				02/04/25		17:00			
RELINQUISHED BY: (Signature)		DATE		TIME		RECEIVED FOR LABORATORY BY:		DATE		TIME		CONDITIONS UPON RECEIPT (check one):	
						Jelly Bunch		02/04/25		17:00		Iced: Wet/Blue _____ Ambient: _____ °C Upon Receipt: _____ N/A	

MATRIX CODES:		TURN-AROUND TIME (TAT) - SURCHARGES	
DW-DRINKING WATER		SW = Standard Written: (15 working days) 0%	
RW-REAGENT WATER		RV* = Rush Verbal: (5 working days) 50%	
GW-GROUND WATER		RW* = Rush Written: (5 working days) 75%	
EW-EXPOSURE WATER			
SW-SURFACE WATER			
PW-POOL WATER			
WW-WASTE WATER			

* Please call, expedited service not available for all testing

IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-137232-1

Login Number: 137232

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Blackburn, Kelly

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	False	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Appendix F

Statistical Outputs

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	107	110	38.0	160	37.6	0.352	-0.245	-1.01
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	237	225	130	400	79.8	0.337	0.632	-0.378
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Normal	Normal	134	150	49.0	210	48.7	0.363	-0.643	-0.348
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	11.7	14.0	4.80	16.0	3.60	0.307	-0.638	-1.00
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	7.59	7.74	6.02	7.81	0.460	0.0606	-3.56	13
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Gamma	441	375	8.80	980	310	0.702	0.285	-1.18
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	2350	2400	2100	2600	129	0.0547	-0.127	0.359
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.000377	0.000250	0.000170	0.00120	0.000284	0.752	2.20	5.21
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00158	0.00135	0.000730	0.00410	0.000807	0.511	2.54	8.14
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.334	0.300	0.200	0.560	0.113	0.337	0.924	0.188
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14	2	14%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.000195	0.000200	0.0000520	0.000360	0.0000999	0.514	0.320	-0.762
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	14	11	79%	2022-11-29 to 2025-02-25		Nonparametric	0.000148	0.0000750	0.0000320	0.000380	0.000124	0.835	1.30	0.0971
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00364	0.00200	0.00130	0.0220	0.00537	1.48	3.55	13
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00165	0.00110	0.000640	0.00450	0.00118	0.716	1.82	2.39
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	11.7	14.0	4.80	16.0	3.60	0.307	-0.638	-1.00
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	2	14%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00121	0.000845	0.000350	0.00530	0.00123	1.02	3.22	11.2
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	2.32	2.45	0.770	3.40	0.802	0.346	-0.376	-0.830
11_2_4_117	MW-01R	Appendix IV	Mercury	mg/L	14	14	100%	2022-11-29 to 2025-02-25		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	1	7%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00135	0.000765	0.000330	0.00560	0.00144	1.07	2.35	5.83
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	2022-11-29 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.918	0.828	0.601	1.28	0.254	0.277	0.253	-1.75
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	0.000729	0.000650	0.000300	0.00180	0.000345	0.473	2.49	7.90
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-29 to 2025-02-25		Nonparametric	0.000271	0.000380	0.0000750	0.000380	0.000152	0.559	-0.670	-1.84
11_2_5_111	MW-01R	Part 115	Copper	mg/L	14	5	36%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.000401	0.000290	0.000200	0.00130	0.000332	0.829	2.19	4.10
11_2_5_114	MW-01R	Part 115	Iron	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.521	0.525	0.0880	1.10	0.345	0.662	0.164	-1.24
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00359	0.00195	0.00120	0.0220	0.00539	1.50	3.53	12.8
11_2_5_123	MW-01R	Part 115	Silver	mg/L	14	14	100%	2022-11-29 to 2025-02-25		Nonparametric	0.000107	0.0000500	0.0000500	0.000250	0.0000938	0.875	1.07	-1.03
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14	2	14%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00190	0.00170	0.000620	0.00460	0.00129	0.680	1.09	0.259
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00739	0.00145	0.00120	0.0330	0.0100	1.36	1.70	2.27
12_2_3_105	MW-02	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	104	100	73.0	170	21.9	0.210	2.07	6.68
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	201	205	180	240	17.5	0.0868	0.554	0.149
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	138	140	67.0	160	21.8	0.158	-3.00	10.3
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	9.78	9.70	4.50	16.0	2.33	0.238	0.670	5.69
12_2_3_120	MW-02	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.21	7.18	7.06	7.45	0.115	0.0159	0.677	-0.403
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	14	9	64%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	1.38	0.895	0.410	5.50	1.40	1.02	2.18	5.68
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1907	1850	1600	2600	253	0.132	1.61	3.62
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	3	21%	2022-11-28 to 2025-02-25	Gamma; Lognormal	Gamma	0.000253	0.000215	0.000100	0.000630	0.000145	0.572	1.82	3.13
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	0.00773	0.00800	0.000440	0.0120	0.00254	0.329	-1.65	5.47
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.464	0.465	0.320	0.730	0.107	0.230	0.930	1.91
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	14	1	7%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.000266	0.000250	0.0000520	0.000520	0.000131	0.493	0.371	-0.386
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	14	10	71%	2022-11-28 to 2025-02-25		Nonparametric	0.000131	0.0000750	0.0000320	0.000490	0.000136	1.03	2.09	3.63
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Normal	Normal	0.0403	0.0425	0.000380	0.0680	0.0189	0.468	-0.513	-0.0879
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Normal	Normal	0.00586	0.00620	0.000240	0.00970	0.00248	0.423	-0.673	0.751

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	9.78	9.70	4.50	16.0	2.33	0.238	0.670	5.69
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	14	1	7%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00276	0.00235	0.000100	0.00600	0.00165	0.599	0.673	0.163
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1.43	1.40	0.870	2.30	0.326	0.229	1.25	3.68
12_2_4_117	MW-02	Appendix IV	Mercury	mg/L	14	14	100%	2022-11-28 to 2025-02-25		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Lognormal	Lognormal	0.00710	0.00570	0.00380	0.0160	0.00342	0.482	1.64	2.39
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	2022-11-28 to 2024-10-15	Gamma; Lognormal; Normal	Normal	1.64	1.56	0.686	3.35	0.834	0.508	0.793	-0.244
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00124	0.00120	0.000500	0.00230	0.000460	0.372	0.590	1.34
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	14	13	93%	2022-11-28 to 2025-02-25		Nonparametric	0.000245	0.000228	0.0000750	0.000620	0.000187	0.762	0.465	-1.04
12_2_5_111	MW-02	Part 115	Copper	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00196	0.00190	0.000230	0.00440	0.00101	0.516	0.702	1.74
12_2_5_114	MW-02	Part 115	Iron	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	23.8	23.5	18.0	31.0	3.91	0.164	0.441	-0.505
12_2_5_119	MW-02	Part 115	Nickel	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Normal	Normal	0.0233	0.0200	0.000930	0.0530	0.0129	0.553	0.891	1.44
12_2_5_123	MW-02	Part 115	Silver	mg/L	14	14	100%	2022-11-28 to 2025-02-25		Nonparametric	0.0000929	0.0000500	0.0000500	0.000250	0.0000852	0.917	1.57	0.501
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	14	1	7%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00375	0.00355	0.000620	0.00670	0.00185	0.494	-0.129	-0.790
12_2_5_129	MW-02	Part 115	Zinc	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	0.00946	0.00330	0.00190	0.0360	0.0114	1.20	1.41	0.694
13_2_3_105	MW-03	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	4.09	4.15	3.30	4.50	0.327	0.0799	-1.10	1.24
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	365	360	290	430	38.8	0.106	-0.166	-0.425
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	165	155	99.0	300	54.3	0.329	1.27	1.84
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.670	0.610	0.520	1.60	0.271	0.404	3.60	13.3
13_2_3_120	MW-03	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.36	7.33	7.20	7.59	0.103	0.0140	0.652	0.332
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Normal	Normal	378	370	34.0	760	217	0.575	0.0384	-0.474
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	2086	2200	1700	2300	241	0.116	-0.572	-1.45
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	14	8	57%	2022-11-28 to 2025-02-26	Gamma; Lognormal	Nonparametric	0.000227	0.000120	0.0000870	0.000500	0.000176	0.776	0.916	-1.15
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000936	0.000940	0.000490	0.00140	0.000257	0.274	-0.255	-0.119
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.354	0.370	0.130	0.500	0.0919	0.260	-0.922	1.59
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	14	9	64%	2022-11-28 to 2025-02-26	Lognormal	Nonparametric	0.0000836	0.0000520	0.0000520	0.000260	0.0000652	0.781	2.05	3.49
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	14	13	93%	2022-11-28 to 2025-02-26		Nonparametric	0.000124	0.0000750	0.0000320	0.000380	0.000116	0.932	1.78	2.22
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00460	0.00455	0.00300	0.00730	0.00128	0.278	0.654	-0.284
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000793	0.000710	0.000370	0.00130	0.000333	0.420	0.369	-1.41
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.670	0.610	0.520	1.60	0.271	0.404	3.60	13.3
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	14	13	93%	2022-11-28 to 2025-02-26		Nonparametric	0.000511	0.000500	0.000100	0.00110	0.000354	0.693	0.802	-0.438
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0393	0.0360	0.0290	0.0650	0.00951	0.242	1.65	3.25
13_2_4_117	MW-03	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-28 to 2025-02-26		Nonparametric	0.000166	0.000160	0.000160	0.000240	0.0000214	0.129	3.74	14.0
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	14	10	71%	2022-11-28 to 2025-02-26		Nonparametric	0.000857	0.000505	0.000250	0.00310	0.000988	1.15	1.97	2.78
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	13	1	8%	2022-11-28 to 2024-10-15	Gamma; Lognormal; Normal	Normal	1.12	0.996	0.609	1.92	0.396	0.353	0.831	-0.0135
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	14	3	21%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000444	0.000410	0.000170	0.00110	0.000227	0.511	1.87	5.21
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	14	13	93%	2022-11-28 to 2025-02-26		Nonparametric	0.000279	0.000380	0.0000750	0.000380	0.000144	0.515	-0.767	-1.56
13_2_5_111	MW-03	Part 115	Copper	mg/L	14	6	43%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.000436	0.000250	0.000200	0.00100	0.000336	0.769	1.07	-0.902
13_2_5_114	MW-03	Part 115	Iron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal	Gamma	1.46	0.705	0.120	5.90	1.65	1.13	1.81	3.29
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	1	7%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.00248	0.00155	0.000850	0.0150	0.00366	1.47	3.56	13.0
13_2_5_123	MW-03	Part 115	Silver	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.000107	0.0000500	0.0000500	0.000250	0.0000938	0.875	1.07	-1.03
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	14	9	64%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.00114	0.000620	0.000620	0.00310	0.000770	0.675	1.56	2.02
13_2_5_129	MW-03	Part 115	Zinc	mg/L	14	8	57%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.00496	0.00125	0.00120	0.0190	0.00658	1.33	1.58	0.959

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
14_2_3_105	MW-04	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	4.09	4.05	3.50	4.70	0.353	0.0863	0.395	-0.272
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	365	360	310	430	33.2	0.0910	0.440	-0.283
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	170	170	90.0	300	57.6	0.340	0.613	0.459
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.32	1.30	0.760	1.90	0.246	0.187	0.100	3.36
14_2_3_120	MW-04	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.36	7.34	7.22	7.66	0.118	0.0160	1.18	2.18
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	591	620	1.80	810	198	0.335	-2.15	6.18
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1893	1850	1700	2100	159	0.0841	0.269	-1.56
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	14	10	71%	2022-11-28 to 2025-02-26		Nonparametric	0.000214	0.000110	0.0000500	0.000500	0.000181	0.847	0.898	-1.07
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal	Gamma	0.00104	0.000900	0.000470	0.00280	0.000561	0.539	2.57	8.21
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.142	0.120	0.0840	0.460	0.0938	0.661	3.43	12.3
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	14	12	86%	2022-11-28 to 2025-02-26		Nonparametric	0.0000531	0.0000520	0.0000520	0.0000660	0.00000374	0.0704	3.62	13.3
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.000121	0.0000750	0.0000320	0.000380	0.000116	0.957	1.82	2.29
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00393	0.00425	0.00260	0.00600	0.00114	0.291	0.140	-1.34
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000461	0.000355	0.000180	0.000930	0.000216	0.467	0.843	-0.0452
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.32	1.30	0.760	1.90	0.246	0.187	0.100	3.36
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.000411	0.000360	0.000100	0.00110	0.000338	0.822	1.20	0.767
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Normal	Normal	0.0615	0.0640	0.0310	0.0740	0.0127	0.207	-1.14	1.08
14_2_4_117	MW-04	Appendix IV	Mercury	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	14	2	14%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00119	0.00108	0.000370	0.00310	0.000767	0.643	1.30	1.82
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	2022-11-28 to 2024-10-15	Gamma; Lognormal; Normal	Normal	1.05	1.08	0.634	1.55	0.337	0.322	0.153	-1.67
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	14	5	36%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000241	0.000220	0.000100	0.000430	0.0000879	0.364	1.11	1.35
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.000228	0.000228	0.0000750	0.000380	0.000158	0.696	0	-2.36
14_2_5_111	MW-04	Part 115	Copper	mg/L	14	12	86%	2022-11-28 to 2025-02-26		Nonparametric	0.000214	0.000200	0.000200	0.000320	0.0000359	0.168	2.64	6.43
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	5.47	5.65	0.620	6.80	1.57	0.286	-2.49	7.62
14_2_5_119	MW-04	Part 115	Nickel	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Normal	Normal	0.0146	0.0145	0.00190	0.0220	0.00520	0.357	-0.928	1.32
14_2_5_123	MW-04	Part 115	Silver	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.000107	0.0000500	0.0000500	0.000250	0.0000938	0.875	1.07	-1.03
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	14	10	71%	2022-11-28 to 2025-02-26		Nonparametric	0.000730	0.000620	0.000620	0.00120	0.000203	0.278	1.66	1.35
14_2_5_129	MW-04	Part 115	Zinc	mg/L	14	10	71%	2022-11-28 to 2025-02-26		Nonparametric	0.00206	0.00120	0.00120	0.00590	0.00169	0.819	1.68	1.20
16_1_3_105	MW-06	Appendix III	Boron	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	9.32	9.60	6.40	12.0	1.56	0.167	-0.269	-0.314
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	254	250	200	310	34.1	0.135	0.390	-0.763
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	71.9	72.0	13.0	160	39.6	0.551	0.603	0.711
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.18	1.10	0.980	1.60	0.187	0.159	1.01	0.379
16_1_3_120	MW-06	Appendix III	pH (field)	su	14	0	0%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	7.22	7.26	6.42	7.49	0.247	0.0342	-2.91	10.0
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	14	2	14%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Gamma	10.4	9.30	0.410	30.0	8.92	0.859	0.774	-0.00725
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-29 to 2025-02-26		Nonparametric	1200	1200	1100	1300	67.9	0.0566	0	-0.394
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	14	12	86%	2022-11-29 to 2025-02-26		Nonparametric	0.000178	0.000100	0.0000500	0.000500	0.000160	0.900	1.43	0.609
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000692	0.000650	0.000470	0.00100	0.000167	0.242	0.655	-0.563
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.42	1.40	0.990	1.70	0.174	0.122	-0.864	1.99
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	14	13	93%	2022-11-29 to 2025-02-26		Nonparametric	0.0000521	0.0000520	0.0000520	0.0000540	0.000000535	0.0103	3.74	14.0
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	14	14	100%	2022-11-29 to 2025-02-26		Nonparametric	0.000121	0.0000750	0.0000320	0.000380	0.000116	0.957	1.82	2.29
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal	Gamma	0.00166	0.00145	0.00110	0.00300	0.000560	0.338	1.16	0.918
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000521	0.000475	0.000350	0.000800	0.000143	0.275	0.736	-0.688

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^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.18	1.10	0.980	1.60	0.187	0.159	1.01	0.379
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	14	9	64%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.000356	0.000235	0.000100	0.00110	0.000344	0.964	1.63	1.73
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.179	0.180	0.110	0.230	0.0390	0.218	-0.174	-1.12
16_1_4_117	MW-06	Appendix IV	Mercury	mg/L	14	14	100%	2022-11-29 to 2025-02-26		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	14	8	57%	2022-11-29 to 2025-02-26	Lognormal	Nonparametric	0.000600	0.000355	0.000250	0.00310	0.000739	1.23	3.41	12.2
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	2022-11-29 to 2024-10-16	Lognormal	Lognormal	0.862	0.824	0.619	1.91	0.341	0.396	2.72	8.55
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	5	36%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	0.000237	0.000220	0.000190	0.000470	0.0000710	0.299	3.13	10.4
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-29 to 2025-02-26		Nonparametric	0.000162	0.0000750	0.0000750	0.000380	0.000143	0.881	1.07	-1.03
16_1_5_111	MW-06	Part 115	Copper	mg/L	14	11	79%	2022-11-29 to 2025-02-26		Nonparametric	0.000222	0.000200	0.000200	0.000380	0.0000515	0.232	2.65	7.24
16_1_5_114	MW-06	Part 115	Iron	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	18.0	17.5	4.60	31.0	6.48	0.359	0.142	1.06
16_1_5_119	MW-06	Part 115	Nickel	mg/L	14	5	36%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000866	0.000905	0.000650	0.00120	0.000194	0.225	0.193	-1.29
16_1_5_123	MW-06	Part 115	Silver	mg/L	14	14	100%	2022-11-29 to 2025-02-26		Nonparametric	0.000107	0.0000500	0.0000500	0.000250	0.0000937	0.874	1.07	-1.03
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	14	13	93%	2022-11-29 to 2025-02-26		Nonparametric	0.000623	0.000620	0.000620	0.000640	0.00000726	0.0117	2.29	3.79
16_1_5_129	MW-06	Part 115	Zinc	mg/L	14	2	14%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	0.0163	0.00160	0.00120	0.0940	0.0305	1.87	1.86	2.32
17_1_3_105	MW-07	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	11.4	11.0	10.0	13.0	0.929	0.0818	0.487	-0.226
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	144	145	120	160	12.2	0.0847	-0.397	-0.445
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	14.1	14.0	13.0	16.0	0.864	0.0611	0.527	0.243
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	14	3	21%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.103	0.0965	0.0550	0.190	0.0397	0.385	0.702	-0.0223
17_1_3_120	MW-07	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Normal	Normal	6.88	6.88	6.58	7.05	0.133	0.0193	-1.11	1.34
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	25.8	27.5	15.0	37.0	8.16	0.317	-0.0679	-1.75
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	644	660	470	720	76.5	0.119	-1.36	1.38
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.0000836	0.000100	0.0000500	0.000100	0.0000234	0.279	-0.809	-1.46
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000213	0.000215	0.000130	0.000290	0.0000365	0.171	-0.267	2.10
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Normal	Normal	0.345	0.345	0.250	0.420	0.0386	0.112	-0.727	2.75
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	14	11	79%	2022-11-30 to 2025-02-26		Nonparametric	0.0000539	0.0000520	0.0000520	0.0000660	0.00000441	0.0818	2.31	4.45
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.0000596	0.0000750	0.0000320	0.0000750	0.0000214	0.358	-0.670	-1.84
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal	Gamma	0.000367	0.000335	0.000280	0.000740	0.000116	0.317	2.83	9.18
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000906	0.000915	0.000710	0.00110	0.000111	0.123	-0.232	-0.587
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	14	3	21%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.103	0.0965	0.0550	0.190	0.0397	0.385	0.702	-0.0223
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000143	0.000100	0.000100	0.000220	0.0000597	0.418	0.670	-1.84
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00600	0.00565	0.00310	0.0100	0.00167	0.279	0.882	1.88
17_1_4_117	MW-07	Appendix IV	Mercury	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000382	0.000250	0.000250	0.000620	0.000184	0.481	0.670	-1.84
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	2	15%	2022-11-30 to 2024-10-15	Gamma; Lognormal	Gamma	1.02	0.928	0.670	2.36	0.446	0.439	2.55	7.62
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	14	9	64%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.000160	0.000150	0.000100	0.000230	0.0000584	0.365	0.0863	-2.16
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA	NA
17_1_5_111	MW-07	Part 115	Copper	mg/L	14	10	71%	2022-11-30 to 2025-02-26		Nonparametric	0.000239	0.000200	0.000200	0.000620	0.000112	0.468	3.54	12.8
17_1_5_114	MW-07	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	15.9	15.5	13.0	19.0	2.03	0.128	0.161	-1.12
17_1_5_119	MW-07	Part 115	Nickel	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.000654	0.000650	0.000650	0.000710	0.0000160	0.0245	3.74	14.0
17_1_5_123	MW-07	Part 115	Silver	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA	NA
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	14	12	86%	2022-11-30 to 2025-02-26		Nonparametric	0.000656	0.000620	0.000620	0.000950	0.0000961	0.146	2.77	7.44
17_1_5_129	MW-07	Part 115	Zinc	mg/L	14	9	64%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.00519	0.00120	0.00120	0.0250	0.00778	1.50	1.84	2.30

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
18_1_3_105	MW-08	Appendix III	Boron	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	6.15	6.80	2.50	9.30	1.88	0.306	-0.403	-0.498
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	137	135	120	160	13.3	0.0967	0.151	-1.26
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Nonparametric	Nonparametric	32.2	28.5	17.0	99.0	20.1	0.625	3.17	11.0
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Normal	Normal	0.912	1.00	0.400	1.30	0.273	0.300	-0.654	-0.704
18_1_3_120	MW-08	Appendix III	pH (field)	su	14	0	0%	2022-12-01 to 2025-02-26	Nonparametric	Nonparametric	7.18	7.25	6.21	7.51	0.305	0.0425	-2.73	8.94
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	14	4	29%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Gamma	11.3	5.45	0.410	48.0	14.0	1.24	1.61	2.43
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	549	550	440	660	60.9	0.111	0.0933	-0.267
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	14	6	43%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000126	0.000100	0.0000540	0.000280	0.0000570	0.451	1.73	3.36
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Normal	Normal	0.0339	0.0355	0.00690	0.0500	0.0137	0.403	-0.758	-0.278
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.21	1.20	0.940	1.50	0.170	0.141	-0.0343	-0.868
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	14	13	93%	2022-12-01 to 2025-02-26		Nonparametric	0.0000569	0.0000520	0.0000520	0.000120	0.0000182	0.320	3.74	14.0
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	14	13	93%	2022-12-01 to 2025-02-26		Nonparametric	0.0000621	0.0000750	0.0000320	0.000110	0.0000250	0.403	-0.0590	-0.859
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000857	0.000795	0.000610	0.00150	0.000247	0.288	1.46	2.37
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000509	0.000480	0.000340	0.000980	0.000185	0.364	1.26	1.83
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Normal	Normal	0.912	1.00	0.400	1.30	0.273	0.300	-0.654	-0.704
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	14	9	64%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.000398	0.000165	0.000100	0.00290	0.000747	1.88	3.35	11.6
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.104	0.110	0.0630	0.140	0.0241	0.231	-0.120	-0.825
18_1_4_117	MW-08	Appendix IV	Mercury	mg/L	14	14	100%	2022-12-01 to 2025-02-26		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00139	0.00155	0.000310	0.00280	0.000794	0.572	0.0989	-1.03
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	2022-12-01 to 2024-10-16	Gamma; Lognormal; Normal	Normal	1.08	0.984	0.604	2.10	0.430	0.398	1.19	1.32
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	14	5	36%	2022-12-01 to 2025-02-26	Gamma; Lognormal	Gamma	0.000196	0.000200	0.000120	0.000340	0.0000656	0.334	0.869	0.369
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	14	13	93%	2022-12-01 to 2025-02-26		Nonparametric	0.0000789	0.0000750	0.0000750	0.000130	0.0000147	0.186	3.74	14.0
18_1_5_111	MW-08	Part 115	Copper	mg/L	14	5	36%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000353	0.000295	0.000200	0.000800	0.000188	0.533	1.27	1.09
18_1_5_114	MW-08	Part 115	Iron	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	20.1	20.0	13.0	32.0	5.56	0.276	0.917	0.608
18_1_5_119	MW-08	Part 115	Nickel	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Nonparametric	Nonparametric	0.00253	0.00130	0.000850	0.0130	0.00324	1.28	2.99	9.55
18_1_5_123	MW-08	Part 115	Silver	mg/L	14	14	100%	2022-12-01 to 2025-02-26		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA	NA
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	14	13	93%	2022-12-01 to 2025-02-26		Nonparametric	0.000641	0.000620	0.000620	0.000910	0.0000775	0.121	3.74	14.0
18_1_5_129	MW-08	Part 115	Zinc	mg/L	14	3	21%	2022-12-01 to 2025-02-26	Nonparametric	Nonparametric	0.0254	0.00175	0.00120	0.160	0.0511	2.01	2.13	3.56
19_2_3_105	MW-09	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	5.76	5.85	4.90	6.90	0.547	0.0949	0.223	-0.0218
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	374	395	230	510	84.2	0.225	-0.0258	-0.833
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Lognormal	Lognormal	20.3	16.5	11.0	67.0	14.4	0.710	2.97	9.81
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	2.56	2.55	2.10	2.90	0.262	0.103	-0.139	-0.973
19_2_3_120	MW-09	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.22	7.21	7.00	7.52	0.123	0.0170	0.881	2.26
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Normal	Normal	450	490	83.0	790	233	0.518	-0.298	-1.28
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1400	1450	740	1900	326	0.233	-0.581	-0.284
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	14	9	64%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	0.000181	0.000100	0.0000500	0.000500	0.000157	0.868	1.48	0.710
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	0.00217	0.00230	0.00130	0.00300	0.000543	0.250	-0.610	-0.810
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Lognormal	Lognormal	0.414	0.215	0.0970	2.40	0.584	1.41	3.48	12.5
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	14	11	79%	2022-11-28 to 2025-02-25		Nonparametric	0.0000598	0.0000520	0.0000520	0.000150	0.0000260	0.436	3.70	13.8
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	14	14	100%	2022-11-28 to 2025-02-25		Nonparametric	0.000112	0.0000750	0.0000320	0.000380	0.000118	1.05	1.97	2.75
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00239	0.00240	0.00160	0.00320	0.000538	0.225	0.0631	-1.52
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.000514	0.000495	0.000230	0.000990	0.000227	0.442	0.529	-0.259

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	2.56	2.55	2.10	2.90	0.262	0.103	-0.139	-0.973
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	14	14	100%	2022-11-28 to 2025-02-25		Nonparametric	0.000383	0.000220	0.000100	0.00110	0.000347	0.906	1.33	0.932
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.302	0.295	0.260	0.340	0.0283	0.0938	-0.0640	-1.30
19_2_4_117	MW-09	Appendix IV	Mercury	mg/L	14	12	86%	2022-11-28 to 2025-02-25		Nonparametric	0.000459	0.000160	0.000160	0.00240	0.000761	1.66	2.32	4.02
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.0214	0.0210	0.00970	0.0330	0.00651	0.304	-0.0173	-0.242
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	13	12	92%	2022-11-28 to 2024-10-17		Nonparametric	0.777	0.771	0.642	0.980	0.0973	0.125	0.684	0.102
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	2	14%	2022-11-28 to 2025-02-25	Gamma; Lognormal	Gamma	0.000286	0.000260	0.000120	0.000640	0.000119	0.418	2.13	6.22
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-28 to 2025-02-25		Nonparametric	0.000206	0.0000750	0.0000750	0.000380	0.000157	0.761	0.325	-2.24
19_2_5_111	MW-09	Part 115	Copper	mg/L	14	9	64%	2022-11-28 to 2025-02-25	Gamma; Lognormal	Nonparametric	0.000318	0.000200	0.000200	0.00130	0.000291	0.917	3.39	12
19_2_5_114	MW-09	Part 115	Iron	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	19.7	19.0	13.0	26.0	4.14	0.210	0.131	-1.16
19_2_5_119	MW-09	Part 115	Nickel	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	0.00994	0.00200	0.000720	0.100	0.0261	2.62	3.67	13.6
19_2_5_123	MW-09	Part 115	Silver	mg/L	14	14	100%	2022-11-28 to 2025-02-25		Nonparametric	0.0000929	0.0000500	0.0000500	0.000250	0.0000852	0.917	1.57	0.501
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	14	14	100%	2022-11-28 to 2025-02-25		Nonparametric	0.000620	0.000620	0.000620	0.000620	0	0	NA	NA
19_2_5_129	MW-09	Part 115	Zinc	mg/L	14	8	57%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	0.00578	0.00120	0.00120	0.0250	0.00802	1.39	1.58	1.30
20_3_3_105	MW-10	Appendix III	Boron	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	16.5	16.0	4.50	28.0	7.92	0.481	-0.0425	-1.51
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	301	280	160	590	121	0.403	1.18	1.01
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	271	230	92.0	670	159	0.587	1.25	1.66
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	5.21	5.45	2.70	7.70	1.67	0.321	-0.133	-1.17
20_3_3_120	MW-10	Appendix III	pH (field)	su	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.79	7.79	7.05	8.81	0.401	0.0515	0.891	2.99
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	643	555	140	1700	412	0.641	1.26	2.13
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	2050	1850	1500	3200	514	0.251	1.23	0.427
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	14	10	71%	2022-11-29 to 2025-02-26		Nonparametric	0.000181	0.000105	0.0000500	0.000500	0.000155	0.856	1.46	0.820
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000709	0.000540	0.000200	0.00200	0.000486	0.685	1.54	2.79
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.290	0.275	0.140	0.570	0.117	0.403	1.14	1.37
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	14	7	50%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.0000763	0.0000530	0.0000520	0.000220	0.0000494	0.647	2.43	5.63
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	14	14	100%	2022-11-29 to 2025-02-26		Nonparametric	0.000121	0.0000750	0.0000320	0.000380	0.000116	0.957	1.82	2.29
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00375	0.00355	0.00130	0.00850	0.00208	0.555	1.03	0.804
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	1	7%	2022-11-29 to 2025-02-26	Gamma; Lognormal	Gamma	0.000496	0.000390	0.000100	0.00180	0.000430	0.867	2.41	6.83
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	5.21	5.45	2.70	7.70	1.67	0.321	-0.133	-1.17
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	14	12	86%	2022-11-29 to 2025-02-26		Nonparametric	0.000453	0.000365	0.000100	0.00110	0.000386	0.852	0.936	-0.539
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.941	0.940	0.540	1.60	0.263	0.279	0.883	2.37
20_3_4_117	MW-10	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-29 to 2025-02-26		Nonparametric	0.000284	0.000160	0.000160	0.00190	0.000465	1.64	3.74	14.0
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00325	0.00340	0.000650	0.00720	0.00180	0.553	0.580	0.514
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	13	10	77%	2022-11-29 to 2024-10-16		Nonparametric	0.826	0.775	0.590	1.36	0.215	0.260	1.40	2.15
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	1	7%	2022-11-29 to 2025-02-26	Gamma; Lognormal	Gamma	0.000363	0.000330	0.000190	0.000830	0.000152	0.418	2.40	7.47
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-29 to 2025-02-26		Nonparametric	0.000228	0.000228	0.0000750	0.000380	0.000158	0.695	-0.00000887	-2.36
20_3_5_111	MW-10	Part 115	Copper	mg/L	14	11	79%	2022-11-29 to 2025-02-26		Nonparametric	0.000312	0.000200	0.000200	0.00130	0.000297	0.953	3.25	11.1
20_3_5_114	MW-10	Part 115	Iron	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	4.99	4.85	2.40	7.30	1.62	0.324	0.0755	-1.37
20_3_5_119	MW-10	Part 115	Nickel	mg/L	14	7	50%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	0.000843	0.000705	0.000650	0.00180	0.000318	0.377	2.43	6.50
20_3_5_123	MW-10	Part 115	Silver	mg/L	14	14	100%	2022-11-29 to 2025-02-26		Nonparametric	0.000107	0.0000500	0.0000500	0.000250	0.0000937	0.874	1.07	-1.03
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	14	11	79%	2022-11-29 to 2025-02-26		Nonparametric	0.000716	0.000620	0.000620	0.00130	0.000206	0.287	2.24	4.66
20_3_5_129	MW-10	Part 115	Zinc	mg/L	14	6	43%	2022-11-29 to 2025-02-26	Gamma; Lognormal	Gamma	0.00402	0.00120	0.00120	0.0140	0.00524	1.30	1.55	0.512

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
21_2_3_105	MW-11	Appendix III	Boron	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	5.94	5.00	1.50	13.0	3.56	0.600	0.742	-0.230
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	263	270	130	380	72.3	0.275	-0.360	-0.370
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	68.6	71.5	38.0	95.0	15.4	0.225	-0.191	-0.123
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.618	0.540	0.210	1.40	0.367	0.594	0.868	0.0830
21_2_3_120	MW-11	Appendix III	pH (field)	su	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.31	7.33	7.09	7.47	0.108	0.0148	-0.585	0.0724
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	14	5	36%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	41.5	11.5	0.410	210	69.3	1.67	1.90	2.50
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	1065	1000	680	1800	257	0.241	1.75	5.10
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	14	10	71%	2022-11-29 to 2025-02-25		Nonparametric	0.000188	0.000100	0.0000500	0.000690	0.000190	1.01	1.92	3.13
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	0.00161	0.00145	0.000610	0.00410	0.000827	0.514	2.27	6.65
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.651	0.580	0.360	1.20	0.217	0.334	1.22	1.98
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	14	11	79%	2022-11-29 to 2025-02-25		Nonparametric	0.0000851	0.0000520	0.0000520	0.000440	0.000103	1.21	3.63	13.4
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	14	12	86%	2022-11-29 to 2025-02-25		Nonparametric	0.000147	0.0000750	0.0000320	0.000730	0.000190	1.30	2.66	7.33
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00143	0.000865	0.000450	0.00860	0.00209	1.46	3.58	13.1
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	0.000629	0.000400	0.000230	0.00240	0.000571	0.909	2.65	7.71
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.618	0.540	0.210	1.40	0.367	0.594	0.868	0.0830
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00573	0.000425	0.000170	0.0680	0.0180	3.13	3.72	13.9
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Gamma	0.0674	0.0515	0.00590	0.220	0.0592	0.878	1.51	2.38
21_2_4_117	MW-11	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-29 to 2025-02-25		Nonparametric	0.000227	0.000160	0.000160	0.00110	0.000251	1.11	3.74	14.0
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14	2	14%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00125	0.000975	0.000430	0.00300	0.000824	0.661	1.33	0.967
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	2022-11-29 to 2024-10-16	Gamma; Lognormal; Normal	Normal	1.02	0.910	0.575	1.76	0.371	0.362	0.945	0.0738
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.000251	0.000215	0.000140	0.000710	0.000149	0.594	2.59	7.30
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	14	13	93%	2022-11-29 to 2025-02-25		Nonparametric	0.000150	0.0000750	0.0000750	0.000380	0.000130	0.864	1.34	-0.0632
21_2_5_111	MW-11	Part 115	Copper	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00186	0.000295	0.000200	0.0190	0.00497	2.67	3.66	13.5
21_2_5_114	MW-11	Part 115	Iron	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	6.99	6.90	3.60	11.0	2.40	0.343	0.0746	-1.19
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00194	0.00140	0.000650	0.00940	0.00221	1.14	3.40	12.1
21_2_5_123	MW-11	Part 115	Silver	mg/L	14	12	86%	2022-11-29 to 2025-02-25		Nonparametric	0.0000936	0.0000500	0.0000500	0.000250	0.0000764	0.817	1.48	0.724
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	14	12	86%	2022-11-29 to 2025-02-25		Nonparametric	0.000790	0.000620	0.000620	0.00300	0.000636	0.805	3.74	14.0
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	4	29%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Gamma	0.0189	0.00420	0.00120	0.100	0.0277	1.46	2.18	5.41
22_2_3_105	MW-12	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.307	0.300	0.190	0.420	0.0828	0.270	0.00916	-1.69
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	67.3	69.0	40.0	95.0	18.0	0.268	-0.0810	-0.842
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	19.5	18.0	12.0	27.0	4.82	0.247	0.470	-0.990
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.329	0.285	0.200	0.540	0.112	0.341	0.679	-1.02
22_2_3_120	MW-12	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.68	7.70	7.00	8.32	0.343	0.0446	0.0208	0.269
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	111	110	52.0	180	38.6	0.348	0.387	-0.135
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	279	285	100	420	87.9	0.315	-0.344	-0.313
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000716	0.000675	0.000350	0.00150	0.000325	0.454	1.06	1.12
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00233	0.00215	0.00140	0.00340	0.000714	0.307	0.157	-1.77
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0411	0.0310	0.0170	0.100	0.0237	0.577	1.34	1.55
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.0000520	0.0000520	0.0000520	0.0000520	0	0	NA	NA
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00147	0.00120	0.000540	0.00320	0.000859	0.586	0.879	-0.395
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	14	5	36%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000435	0.000375	0.000200	0.000990	0.000272	0.625	1.11	0.290
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	14	5	36%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000293	0.000165	0.000100	0.000930	0.000254	0.867	1.39	1.56

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.329	0.285	0.200	0.540	0.112	0.341	0.679	-1.02
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	14	6	43%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000236	0.000220	0.000100	0.000470	0.000105	0.447	1.14	0.671
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00371	0.00370	0.00190	0.00640	0.00144	0.388	0.415	-0.732
22_2_4_117	MW-12	Appendix IV	Mercury	mg/L	14	12	86%	2022-11-28 to 2025-02-26		Nonparametric	0.000165	0.000160	0.000160	0.000230	0.0000187	0.113	3.74	14.0
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal	Gamma	0.00787	0.00705	0.00460	0.0180	0.00329	0.419	2.41	7.34
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	13	9	69%	2022-11-28 to 2024-10-16		Nonparametric	0.645	0.602	0.459	1.09	0.164	0.255	1.81	3.97
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Gamma	0.00121	0.000910	0.000130	0.00430	0.00115	0.948	1.59	3.03
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA	NA
22_2_5_111	MW-12	Part 115	Copper	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00133	0.00120	0.000550	0.00340	0.000695	0.523	2.18	6.15
22_2_5_114	MW-12	Part 115	Iron	mg/L	14	6	43%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0601	0.0300	0.0210	0.260	0.0667	1.11	2.53	6.48
22_2_5_119	MW-12	Part 115	Nickel	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00255	0.00255	0.00140	0.00350	0.000728	0.286	-0.331	-0.957
22_2_5_123	MW-12	Part 115	Silver	mg/L	14	14	100%	2022-11-28 to 2025-02-26		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA	NA
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	14	6	43%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000952	0.000795	0.000620	0.00210	0.000451	0.474	1.58	2.09
22_2_5_129	MW-12	Part 115	Zinc	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00814	0.00800	0.00270	0.0170	0.00345	0.425	0.975	2.71
28_1_3_105	MW-18	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	2.89	2.65	1.80	4.40	0.885	0.306	0.423	-1.38
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	344	345	240	450	60.7	0.176	-0.231	-0.312
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	23.3	24.0	16.0	32.0	4.65	0.200	-0.0403	-0.429
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	3.89	3.80	2.70	5.10	0.685	0.176	0.205	-0.701
28_1_3_120	MW-18	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.17	7.17	7.02	7.31	0.0770	0.0107	-0.314	0.546
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	829	770	480	1200	214	0.259	0.614	-0.264
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1414	1400	1100	1800	199	0.141	0.450	-0.323
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	14	3	21%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.000214	0.000135	0.000100	0.000500	0.000140	0.652	1.37	0.716
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0274	0.0285	0.0150	0.0440	0.00803	0.294	0.689	0.413
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0194	0.0195	0.0120	0.0280	0.00503	0.260	0.0462	-1.25
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	14	12	86%	2022-11-30 to 2025-02-26		Nonparametric	0.0000526	0.0000520	0.0000520	0.0000590	0.00000187	0.0356	3.62	13.3
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	14	6	43%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000190	0.000170	0.0000750	0.000440	0.000122	0.644	0.862	-0.360
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.000196	0.000200	0.000180	0.000250	0.0000182	0.0928	1.95	5.69
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.00286	0.00230	0.00140	0.00600	0.00149	0.519	1.23	0.258
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	3.89	3.80	2.70	5.10	0.685	0.176	0.205	-0.701
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	14	9	64%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.000292	0.000220	0.000100	0.00110	0.000266	0.910	2.47	6.81
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0348	0.0355	0.0200	0.0450	0.00805	0.231	-0.301	-1.30
28_1_4_117	MW-18	Appendix IV	Mercury	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0150	0.0135	0.00900	0.0210	0.00404	0.269	0.343	-1.31
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.663	0.618	0.462	1.27	0.213	0.322	2.16	5.52
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000576	0.000375	0.000140	0.00200	0.000528	0.917	1.70	3.14
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000140	0.0000750	0.0000750	0.000380	0.000130	0.925	1.57	0.501
28_1_5_111	MW-18	Part 115	Copper	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.000661	0.000475	0.000330	0.00170	0.000422	0.638	1.91	2.70
28_1_5_114	MW-18	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	6.71	6.85	4.30	10.0	1.55	0.231	0.474	0.0699
28_1_5_119	MW-18	Part 115	Nickel	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.00652	0.00545	0.00370	0.0110	0.00238	0.366	1.05	-0.142
28_1_5_123	MW-18	Part 115	Silver	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.0000929	0.0000500	0.0000500	0.000250	0.0000852	0.917	1.57	0.501
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000620	0.000620	0.000620	0.000620	0	0	NA	NA
28_1_5_129	MW-18	Part 115	Zinc	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0491	0.0440	0.0170	0.0880	0.0195	0.397	0.399	-0.230

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
29_1_3_105	MW-19	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	2.05	2.00	1.50	2.60	0.390	0.190	0.0409	-1.32
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	471	475	360	550	49.7	0.106	-0.716	0.872
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	44.4	40.0	23.0	75.0	14.8	0.334	0.815	0.125
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.87	1.90	1.40	2.30	0.273	0.146	-0.1000	-0.850
29_1_3_120	MW-19	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	6.84	6.87	6.39	7.07	0.166	0.0242	-1.47	3.51
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1006	1000	600	1300	197	0.196	-0.283	-0.0375
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1879	1850	1600	2200	236	0.126	0.216	-1.63
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	14	12	86%	2022-11-30 to 2025-02-26		Nonparametric	0.000227	0.000100	0.0000500	0.000720	0.000221	0.975	1.19	0.103
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00523	0.00550	0.00260	0.00730	0.00159	0.303	-0.324	-1.34
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0394	0.0380	0.0300	0.0500	0.00554	0.141	0.446	-0.298
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	14	3	21%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0000849	0.0000715	0.0000520	0.000260	0.0000529	0.623	3.17	10.9
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000121	0.0000750	0.0000320	0.000380	0.000116	0.957	1.82	2.29
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	14	5	36%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000316	0.000270	0.000180	0.000880	0.000186	0.590	2.51	6.82
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	14	1	7%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000519	0.000460	0.000100	0.00120	0.000318	0.612	0.671	0.0987
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.87	1.90	1.40	2.30	0.273	0.146	-0.1000	-0.850
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000446	0.000360	0.000100	0.00110	0.000392	0.879	0.912	-0.587
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0913	0.0900	0.0730	0.110	0.0112	0.122	0.150	-0.209
29_1_4_117	MW-19	Appendix IV	Mercury	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0105	0.0105	0.00390	0.0190	0.00368	0.349	0.328	1.56
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	13	5	38%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Normal	0.785	0.626	0.514	1.17	0.258	0.328	0.364	-1.84
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	14	10	71%	2022-11-30 to 2025-02-26		Nonparametric	0.000218	0.000125	0.000100	0.00110	0.000259	1.19	3.47	12.6
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000228	0.000228	0.0000750	0.000380	0.000158	0.696	0	-2.36
29_1_5_111	MW-19	Part 115	Copper	mg/L	14	12	86%	2022-11-30 to 2025-02-26		Nonparametric	0.000269	0.000200	0.000200	0.00100	0.000214	0.795	3.54	12.8
29_1_5_114	MW-19	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	17.0	16.5	12.0	24.0	3.49	0.205	0.483	-0.390
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	1	7%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.00321	0.00240	0.00110	0.0170	0.00405	1.26	3.47	12.6
29_1_5_123	MW-19	Part 115	Silver	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000107	0.0000500	0.0000500	0.000250	0.0000938	0.875	1.07	-1.03
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000797	0.000620	0.000620	0.00310	0.000663	0.831	3.74	14.0
29_1_5_129	MW-19	Part 115	Zinc	mg/L	14	10	71%	2022-11-30 to 2025-02-26		Nonparametric	0.00212	0.00120	0.00120	0.00590	0.00158	0.745	1.62	1.39
30_1_3_105	MW-20	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal; Normal	Normal	0.953	0.895	0.720	1.30	0.176	0.185	0.450	-0.943
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	123	125	58.0	170	24.1	0.196	-1.11	4.53
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	64.4	68.0	29.0	92.0	17.2	0.268	-0.510	0.267
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.254	0.235	0.120	0.550	0.0939	0.369	2.51	8.70
30_1_3_120	MW-20	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.35	7.34	7.14	7.50	0.110	0.0149	-0.468	-0.784
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	58.1	52.0	18.0	120	33.7	0.580	0.481	-0.952
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	663	655	510	840	86.5	0.131	0.311	0.396
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	14	4	29%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000102	0.000100	0.0000540	0.000160	0.0000288	0.282	0.153	0.285
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00143	0.00140	0.00100	0.00190	0.000281	0.197	0.192	-1.22
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.514	0.465	0.310	0.940	0.171	0.333	1.64	2.40
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.0000525	0.0000520	0.0000520	0.0000590	0.00000187	0.0356	3.74	14.0
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.0000596	0.0000750	0.0000320	0.0000750	0.0000214	0.358	-0.670	-1.84
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	14	6	43%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000216	0.000205	0.000180	0.000290	0.0000303	0.140	1.39	1.51
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00120	0.00120	0.000690	0.00160	0.000266	0.222	-0.135	-0.489

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.254	0.235	0.120	0.550	0.0939	0.369	2.51	8.70
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00195	0.00180	0.00130	0.00280	0.000482	0.247	0.615	-0.635
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0598	0.0610	0.0290	0.0830	0.0153	0.256	-0.552	0.144
30_1_4_117	MW-20	Appendix IV	Mercury	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00446	0.00460	0.00330	0.00580	0.000693	0.155	0.1000	-0.451
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.713	0.590	0.467	1.47	0.288	0.404	1.84	3.22
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	14	8	57%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.000160	0.000130	0.000100	0.000260	0.0000615	0.384	0.352	-1.87
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.0000775	0.0000750	0.0000750	0.000110	0.00000935	0.121	3.74	14.0
30_1_5_111	MW-20	Part 115	Copper	mg/L	14	2	14%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000354	0.000315	0.000200	0.000820	0.000173	0.487	1.71	3.16
30_1_5_114	MW-20	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	18.7	18.5	14.0	22.0	2.37	0.127	-0.333	-0.358
30_1_5_119	MW-20	Part 115	Nickel	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Normal	Normal	0.00810	0.00855	0.00450	0.00990	0.00163	0.201	-0.872	0.0330
30_1_5_123	MW-20	Part 115	Silver	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA	NA
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	14	14	100%	2022-11-30 to 2025-02-26		Nonparametric	0.000620	0.000620	0.000620	0.000620	0	0	NA	NA
30_1_5_129	MW-20	Part 115	Zinc	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.0321	0.0265	0.0150	0.0710	0.0172	0.536	1.42	0.887
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	1.97	1.90	1.40	3.50	0.487	0.247	2.56	8.30
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	502	460	390	960	151	0.301	2.61	6.98
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	232	130	82.0	1200	292	1.26	3.23	11
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.189	0.174	-1.40	4.02
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Normal	Normal	7.05	7.11	6.48	7.25	0.200	0.0284	-2.02	4.70
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Normal	Normal	854	900	440	1000	160	0.187	-1.66	2.67
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	2350	2200	1800	4000	524	0.223	2.69	8.41
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	14	12	86%	2022-11-30 to 2025-02-25		Nonparametric	0.000246	0.000100	0.0000500	0.000650	0.000215	0.873	0.718	-1.20
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	2	14%	2022-11-30 to 2025-02-25	Gamma; Lognormal	Gamma	0.000571	0.000450	0.000100	0.00220	0.000524	0.917	2.56	7.83
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.0676	0.0620	0.0410	0.100	0.0217	0.320	0.473	-1.36
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	14	12	86%	2022-11-30 to 2025-02-25		Nonparametric	0.0000859	0.0000520	0.0000520	0.000260	0.0000753	0.877	2.13	3.19
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	14	14	100%	2022-11-30 to 2025-02-25		Nonparametric	0.000143	0.0000750	0.0000320	0.000380	0.000134	0.936	1.26	-0.0533
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00902	0.00935	0.00310	0.0140	0.00339	0.376	-0.239	-1.11
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.00453	0.00110	0.000470	0.0460	0.0120	2.64	3.69	13.7
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.189	0.174	-1.40	4.02
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.000617	0.000500	0.000100	0.00170	0.000464	0.753	1.07	0.713
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Lognormal	Lognormal	0.135	0.120	0.100	0.270	0.0422	0.313	2.84	9.11
40_1_4_117	MW-30	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.000176	0.000160	0.000160	0.000390	0.0000615	0.348	3.74	14.0
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	14	3	21%	2022-11-30 to 2025-02-25	Lognormal	Nonparametric	0.00267	0.000995	0.000320	0.0190	0.00482	1.80	3.43	12.3
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.700	0.624	0.445	1.12	0.196	0.280	0.821	-0.0317
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	14	7	50%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	0.000274	0.000220	0.000100	0.00110	0.000263	0.961	2.71	8.13
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-30 to 2025-02-25		Nonparametric	0.000293	0.000380	0.0000750	0.000380	0.000143	0.488	-1.07	-1.03
40_1_5_111	MW-30	Part 115	Copper	mg/L	14	10	71%	2022-11-30 to 2025-02-25		Nonparametric	0.000359	0.000200	0.000200	0.00100	0.000288	0.801	1.87	2.28
40_1_5_114	MW-30	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	3.24	2.70	0.870	8.80	2.15	0.663	1.45	2.41
40_1_5_119	MW-30	Part 115	Nickel	mg/L	14	3	21%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.00964	0.00180	0.000650	0.110	0.0289	3.0	3.73	13.9
40_1_5_123	MW-30	Part 115	Silver	mg/L	14	14	100%	2022-11-30 to 2025-02-25		Nonparametric	0.000121	0.0000500	0.0000500	0.000250	0.0000994	0.819	0.670	-1.84
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	14	14	100%	2022-11-30 to 2025-02-25		Nonparametric	0.000974	0.000620	0.000620	0.00310	0.000901	0.924	2.29	3.79
40_1_5_129	MW-30	Part 115	Zinc	mg/L	14	10	71%	2022-11-30 to 2025-02-25		Nonparametric	0.00930	0.00120	0.00120	0.100	0.0262	2.81	3.71	13.8

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
41_1_3_105	MW-31	Appendix III	Boron	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	4.63	4.50	3.60	5.80	0.637	0.138	0.222	-0.543
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	169	170	130	200	19.9	0.118	-0.0429	-0.164
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	103	100	87.0	120	9.07	0.0883	0.0960	-0.511
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	4.71	4.70	4.10	5.20	0.288	0.0611	-0.0760	0.584
41_1_3_120	MW-31	Appendix III	pH (field)	su	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.84	7.83	7.67	8.02	0.110	0.0141	0.475	-0.535
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	153	155	45.0	250	68.8	0.450	0.0984	-1.07
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	801	795	730	940	60.1	0.0750	0.850	0.569
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	14	6	43%	2022-12-01 to 2025-02-25	Gamma; Lognormal	Gamma	0.000181	0.000100	0.0000500	0.000690	0.000181	1.00	2.15	4.35
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00127	0.00120	0.000950	0.00180	0.000251	0.198	0.850	0.0606
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.173	0.160	0.120	0.290	0.0478	0.276	1.18	1.34
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	14	12	86%	2022-12-01 to 2025-02-25		Nonparametric	0.0000553	0.0000520	0.0000520	0.0000960	0.0000117	0.212	3.73	13.9
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	14	13	93%	2022-12-01 to 2025-02-25		Nonparametric	0.0000603	0.0000750	0.0000320	0.0000840	0.0000220	0.365	-0.626	-1.81
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00236	0.00225	0.00170	0.00410	0.000622	0.264	1.83	4.15
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	14	2	14%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.000177	0.000170	0.000100	0.000360	0.0000721	0.407	1.37	2.26
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	4.71	4.70	4.10	5.20	0.288	0.0611	-0.0760	0.584
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	14	12	86%	2022-12-01 to 2025-02-25		Nonparametric	0.000169	0.000160	0.000100	0.000310	0.0000748	0.444	0.384	-1.37
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.0500	0.0520	0.0390	0.0630	0.00662	0.132	-0.150	0.135
41_1_4_117	MW-31	Appendix IV	Mercury	mg/L	14	14	100%	2022-12-01 to 2025-02-25		Nonparametric	0.000160	0.000160	0.000160	0.000160	0	0	NA	NA
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00124	0.00115	0.000520	0.00210	0.000384	0.310	0.599	1.50
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	2022-12-01 to 2024-10-15	Gamma; Lognormal	Gamma	0.720	0.673	0.497	1.23	0.224	0.311	1.55	1.82
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	14	6	43%	2022-12-01 to 2025-02-25	Nonparametric	Nonparametric	0.000204	0.000155	0.000100	0.000740	0.000162	0.795	3.17	11.0
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	14	13	93%	2022-12-01 to 2025-02-25		Nonparametric	0.0000759	0.0000750	0.0000750	0.0000880	0.00000347	0.0458	3.74	14.0
41_1_5_111	MW-31	Part 115	Copper	mg/L	14	9	64%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	0.000239	0.000200	0.000200	0.000440	0.0000695	0.291	2.19	5.08
41_1_5_114	MW-31	Part 115	Iron	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Nonparametric	Nonparametric	0.759	0.500	0.120	2.50	0.718	0.946	1.13	0.997
41_1_5_119	MW-31	Part 115	Nickel	mg/L	14	10	71%	2022-12-01 to 2025-02-25		Nonparametric	0.00261	0.000650	0.000650	0.0230	0.00591	2.26	3.64	13.5
41_1_5_123	MW-31	Part 115	Silver	mg/L	14	14	100%	2022-12-01 to 2025-02-25		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA	NA
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	14	12	86%	2022-12-01 to 2025-02-25		Nonparametric	0.000636	0.000620	0.000620	0.000830	0.0000560	0.0879	3.69	13.7
41_1_5_129	MW-31	Part 115	Zinc	mg/L	14	9	64%	2022-12-01 to 2025-02-25	Normal	Nonparametric	0.00381	0.00120	0.00120	0.0130	0.00436	1.14	1.25	-0.170
42_1_3_105	MW-32	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Lognormal	Lognormal	3.55	3.10	2.60	5.60	0.862	0.243	1.38	1.39
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	174	180	130	220	25.6	0.148	-0.0799	-0.711
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	45.4	46.0	38.0	50.0	4.40	0.0969	-0.324	-1.38
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1.53	1.50	1.20	1.90	0.173	0.113	0.527	1.23
42_1_3_120	MW-32	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.61	7.61	7.50	7.75	0.0744	0.00978	0.199	-0.821
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Gamma	78.7	68.5	5.90	190	62.3	0.792	0.438	-1.13
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	686	690	550	800	90.9	0.132	-0.194	-1.52
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	14	10	71%	2022-11-30 to 2025-02-25		Nonparametric	0.000134	0.000100	0.0000500	0.000700	0.000165	1.23	3.61	13.3
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.000664	0.000565	0.000390	0.00240	0.000506	0.761	3.59	13.2
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.571	0.570	0.0590	1.30	0.312	0.546	0.858	1.29
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.0000533	0.0000520	0.0000520	0.0000700	0.00000481	0.0903	3.74	14.0
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.0000679	0.0000750	0.0000320	0.000190	0.0000409	0.603	2.09	6.25
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.000608	0.000385	0.000310	0.00300	0.000697	1.15	3.59	13.2
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal	Gamma	0.000514	0.000385	0.000210	0.00190	0.000421	0.819	3.13	10.7

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1.53	1.50	1.20	1.90	0.173	0.113	0.527	1.23
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	14	10	71%	2022-11-30 to 2025-02-25		Nonparametric	0.000190	0.000180	0.000100	0.000420	0.000104	0.549	1.19	0.777
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.130	0.125	0.0940	0.200	0.0326	0.251	1.09	0.646
42_1_4_117	MW-32	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.000284	0.000160	0.000160	0.00190	0.000465	1.64	3.74	14.0
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00426	0.00440	0.00250	0.00730	0.00113	0.265	1.30	3.57
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.661	0.603	0.497	0.985	0.151	0.229	1.16	0.215
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	14	11	79%	2022-11-30 to 2025-02-25		Nonparametric	0.000212	0.000135	0.000100	0.00100	0.000233	1.10	3.38	12.1
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	14	14	100%	2022-11-30 to 2025-02-25		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	14	8	57%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.00136	0.000200	0.000200	0.0160	0.00421	3.09	3.74	14
42_1_5_114	MW-32	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	15.6	16.5	11.0	20.0	3.00	0.192	-0.354	-1.21
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.00260	0.000980	0.000680	0.0230	0.00588	2.26	3.73	13.9
42_1_5_123	MW-32	Part 115	Silver	mg/L	14	14	100%	2022-11-30 to 2025-02-25		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA	NA
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	14	14	100%	2022-11-30 to 2025-02-25		Nonparametric	0.000620	0.000620	0.000620	0.000620	0	0	NA	NA
42_1_5_129	MW-32	Part 115	Zinc	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.0155	0.00325	0.00220	0.0680	0.0225	1.45	1.64	1.51

^a Non-detects are excluded from goodness-of-fit tests.

Table 2: Summary Statistics, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	107	110	38.0	160	37.6	0.352	-0.245	-1.01
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	237	225	130	400	79.8	0.337	0.632	-0.378
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Normal	Normal	134	150	49.0	210	48.7	0.363	-0.643	-0.348
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	11.7	14.0	4.80	16.0	3.60	0.307	-0.638	-1.00
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	7.59	7.74	6.02	7.81	0.460	0.0606	-3.56	13
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Gamma	441	375	8.80	980	310	0.702	0.285	-1.18
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	2350	2400	2100	2600	129	0.0547	-0.127	0.359
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.000366	0.000230	0.000170	0.00120	0.000316	0.862	2.29	5.09
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00158	0.00135	0.000730	0.00410	0.000807	0.511	2.54	8.14
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.334	0.300	0.200	0.560	0.113	0.337	0.924	0.188
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14	2	14%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.000218	0.000200	0.000120	0.000360	0.0000865	0.396	0.559	-0.989
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	14	11	79%	2022-11-29 to 2025-02-25		Nonparametric	0.000171	0.000110	0.0000620	0.000340	0.000149	0.871	1.53	NA
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00364	0.00200	0.00130	0.0220	0.00537	1.48	3.55	13
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00165	0.00110	0.000640	0.00450	0.00118	0.716	1.82	2.39
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	11.7	14.0	4.80	16.0	3.60	0.307	-0.638	-1.00
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	2	14%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00123	0.000810	0.000350	0.00530	0.00134	1.09	3.01	9.61
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	2.32	2.45	0.770	3.40	0.802	0.346	-0.376	-0.830
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	1	7%	2022-11-29 to 2025-02-25	Lognormal	Lognormal	0.00121	0.000760	0.000330	0.00560	0.00141	1.16	2.93	9.29
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	2022-11-29 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	1.00	1.06	0.601	1.28	0.274	0.273	-0.629	-1.20
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	0.000729	0.000650	0.000300	0.00180	0.000345	0.473	2.49	7.90
11_2_5_111	MW-01R	Part 115	Copper	mg/L	14	5	36%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.000512	0.000300	0.000270	0.00130	0.000375	0.731	1.67	1.61
11_2_5_114	MW-01R	Part 115	Iron	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.521	0.525	0.0880	1.10	0.345	0.662	0.164	-1.24
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00359	0.00195	0.00120	0.0220	0.00539	1.50	3.53	12.8
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14	2	14%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00211	0.00180	0.000670	0.00460	0.00127	0.603	0.997	-0.0398
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00907	0.00180	0.00120	0.0330	0.0108	1.19	1.35	1.10
12_2_3_105	MW-02	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	104	100	73.0	170	21.9	0.210	2.07	6.68
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	201	205	180	240	17.5	0.0868	0.554	0.149
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	138	140	67.0	160	21.8	0.158	-3.00	10.3
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	9.78	9.70	4.50	16.0	2.33	0.238	0.670	5.69
12_2_3_120	MW-02	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.21	7.18	7.06	7.45	0.115	0.0159	0.677	-0.403
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	14	9	64%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	1.38	1.10	0.860	2.20	0.592	0.429	0.765	-1.81
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1907	1850	1600	2600	253	0.132	1.61	3.62
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	3	21%	2022-11-28 to 2025-02-25	Gamma; Lognormal	Gamma	0.000245	0.000190	0.000150	0.000630	0.000137	0.558	2.62	7.60
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	0.00773	0.00800	0.000440	0.0120	0.00254	0.329	-1.65	5.47
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.464	0.465	0.320	0.730	0.107	0.230	0.930	1.91
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	14	1	7%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.000282	0.000280	0.000120	0.000520	0.000120	0.427	0.589	-0.476
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	14	10	71%	2022-11-28 to 2025-02-25		Nonparametric	0.000164	0.0000620	0.0000410	0.000490	0.000218	1.33	1.97	3.88
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Normal	Normal	0.0403	0.0425	0.000380	0.0680	0.0189	0.468	-0.513	-0.0879
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Normal	Normal	0.00586	0.00620	0.000240	0.00970	0.00248	0.423	-0.673	0.751
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	9.78	9.70	4.50	16.0	2.33	0.238	0.670	5.69
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	14	1	7%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00296	0.00240	0.00100	0.00600	0.00152	0.514	0.985	0.105
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1.43	1.40	0.870	2.30	0.326	0.229	1.25	3.68
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Lognormal	Lognormal	0.00710	0.00570	0.00380	0.0160	0.00342	0.482	1.64	2.39

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	2022-11-28 to 2024-10-15	Gamma; Lognormal; Normal	Normal	1.61	1.56	0.708	3.35	0.837	0.520	1.23	1.29
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00124	0.00120	0.000500	0.00230	0.000460	0.372	0.590	1.34
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	14	13	93%	2022-11-28 to 2025-02-25		Nonparametric	0.000620	0.000620	0.000620	0.000620	NA	NA	NA	NA
12_2_5_111	MW-02	Part 115	Copper	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00196	0.00190	0.000230	0.00440	0.00101	0.516	0.702	1.74
12_2_5_114	MW-02	Part 115	Iron	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	23.8	23.5	18.0	31.0	3.91	0.164	0.441	-0.505
12_2_5_119	MW-02	Part 115	Nickel	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Normal	Normal	0.0233	0.0200	0.000930	0.0530	0.0129	0.553	0.891	1.44
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	14	1	7%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00399	0.00360	0.00130	0.00670	0.00169	0.422	-0.0673	-0.695
12_2_5_129	MW-02	Part 115	Zinc	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	0.00946	0.00330	0.00190	0.0360	0.0114	1.20	1.41	0.694
13_2_3_105	MW-03	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	4.09	4.15	3.30	4.50	0.327	0.0799	-1.10	1.24
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	365	360	290	430	38.8	0.106	-0.166	-0.425
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	165	155	99.0	300	54.3	0.329	1.27	1.84
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.670	0.610	0.520	1.60	0.271	0.404	3.60	13.3
13_2_3_120	MW-03	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.36	7.33	7.20	7.59	0.103	0.0140	0.652	0.332
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Normal	Normal	378	370	34.0	760	217	0.575	0.0384	-0.474
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	2086	2200	1700	2300	241	0.116	-0.572	-1.45
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	14	8	57%	2022-11-28 to 2025-02-26	Gamma; Lognormal	Nonparametric	0.000171	0.000120	0.0000870	0.000450	0.000139	0.811	2.25	5.22
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000936	0.000940	0.000490	0.00140	0.000257	0.274	-0.255	-0.119
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.354	0.370	0.130	0.500	0.0919	0.260	-0.922	1.59
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	14	9	64%	2022-11-28 to 2025-02-26	Lognormal	Nonparametric	0.0000988	0.0000570	0.0000530	0.000180	0.0000614	0.621	0.740	-2.55
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	14	13	93%	2022-11-28 to 2025-02-26		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA	NA
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00460	0.00455	0.00300	0.00730	0.00128	0.278	0.654	-0.284
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000793	0.000710	0.000370	0.00130	0.000333	0.420	0.369	-1.41
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.670	0.610	0.520	1.60	0.271	0.404	3.60	13.3
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	14	13	93%	2022-11-28 to 2025-02-26		Nonparametric	0.000220	0.000220	0.000220	0.000220	NA	NA	NA	NA
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0393	0.0360	0.0290	0.0650	0.00951	0.242	1.65	3.25
13_2_4_117	MW-03	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-28 to 2025-02-26		Nonparametric	0.000240	0.000240	0.000240	0.000240	NA	NA	NA	NA
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	14	10	71%	2022-11-28 to 2025-02-26		Nonparametric	0.000765	0.000785	0.000390	0.00110	0.000296	0.386	-0.377	0.661
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	13	1	8%	2022-11-28 to 2024-10-15	Gamma; Lognormal; Normal	Normal	1.10	0.978	0.609	1.92	0.408	0.370	0.970	0.103
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	14	3	21%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000425	0.000420	0.000170	0.000620	0.000117	0.274	-0.619	1.71
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	14	13	93%	2022-11-28 to 2025-02-26		Nonparametric	0.000180	0.000180	0.000180	0.000180	NA	NA	NA	NA
13_2_5_111	MW-03	Part 115	Copper	mg/L	14	6	43%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.000514	0.000300	0.000240	0.00100	0.000342	0.666	0.676	-2.03
13_2_5_114	MW-03	Part 115	Iron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal	Gamma	1.46	0.705	0.120	5.90	1.65	1.13	1.81	3.29
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	1	7%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.00243	0.00150	0.000850	0.0150	0.00380	1.56	3.53	12.6
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	14	9	64%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.00158	0.00150	0.00120	0.00220	0.000427	0.270	0.744	-0.760
13_2_5_129	MW-03	Part 115	Zinc	mg/L	14	8	57%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.00920	0.00750	0.00130	0.0190	0.00843	0.916	0.211	-2.81
14_2_3_105	MW-04	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	4.09	4.05	3.50	4.70	0.353	0.0863	0.395	-0.272
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	365	360	310	430	33.2	0.0910	0.440	-0.283
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	170	170	90.0	300	57.6	0.340	0.613	0.459
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.32	1.30	0.760	1.90	0.246	0.187	0.100	3.36
14_2_3_120	MW-04	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.36	7.34	7.22	7.66	0.118	0.0160	1.18	2.18
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	591	620	1.80	810	198	0.335	-2.15	6.18
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1893	1850	1700	2100	159	0.0841	0.269	-1.56
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	14	10	71%	2022-11-28 to 2025-02-26		Nonparametric	0.000185	0.000130	0.0000710	0.000410	0.000153	0.824	1.78	3.36

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal	Gamma	0.00104	0.000900	0.000470	0.00280	0.000561	0.539	2.57	8.21
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	0.142	0.120	0.0840	0.460	0.0938	0.661	3.43	12.3
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	14	12	86%	2022-11-28 to 2025-02-26		Nonparametric	0.0000600	0.0000600	0.0000540	0.0000660	0.00000849	0.141	NA	NA
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00393	0.00425	0.00260	0.00600	0.00114	0.291	0.140	-1.34
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000461	0.000355	0.000180	0.000930	0.000216	0.467	0.843	-0.0452
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.32	1.30	0.760	1.90	0.246	0.187	0.100	3.36
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Normal	Normal	0.0615	0.0640	0.0310	0.0740	0.0127	0.207	-1.14	1.08
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	14	2	14%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00108	0.00108	0.000370	0.00230	0.000568	0.524	0.603	0.396
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	2022-11-28 to 2024-10-15	Gamma; Lognormal; Normal	Normal	1.13	1.22	0.634	1.55	0.342	0.302	-0.458	-1.34
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	14	5	36%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000267	0.000230	0.000170	0.000430	0.0000954	0.358	1.04	-0.424
14_2_5_111	MW-04	Part 115	Copper	mg/L	14	12	86%	2022-11-28 to 2025-02-26		Nonparametric	0.000295	0.000295	0.000270	0.000320	0.0000354	0.120	NA	NA
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Nonparametric	Nonparametric	5.47	5.65	0.620	6.80	1.57	0.286	-2.49	7.62
14_2_5_119	MW-04	Part 115	Nickel	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Normal	Normal	0.0146	0.0145	0.00190	0.0220	0.00520	0.357	-0.928	1.32
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	14	10	71%	2022-11-28 to 2025-02-26		Nonparametric	0.00100	0.00103	0.000750	0.00120	0.000194	0.193	-0.759	-0.0456
14_2_5_129	MW-04	Part 115	Zinc	mg/L	14	10	71%	2022-11-28 to 2025-02-26		Nonparametric	0.00422	0.00475	0.00150	0.00590	0.00192	0.454	-1.41	2.19
16_1_3_105	MW-06	Appendix III	Boron	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	9.32	9.60	6.40	12.0	1.56	0.167	-0.269	-0.314
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	254	250	200	310	34.1	0.135	0.390	-0.763
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	71.9	72.0	13.0	160	39.6	0.551	0.603	0.711
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.18	1.10	0.980	1.60	0.187	0.159	1.01	0.379
16_1_3_120	MW-06	Appendix III	pH (field)	su	14	0	0%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	7.22	7.26	6.42	7.49	0.247	0.0342	-2.91	10.0
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	14	2	14%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Gamma	11.9	9.50	0.980	30.0	8.74	0.734	0.622	-0.00308
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-29 to 2025-02-26		Nonparametric	1200	1200	1100	1300	67.9	0.0566	0	-0.394
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	14	12	86%	2022-11-29 to 2025-02-26		Nonparametric	0.000218	0.000218	0.0000750	0.000360	0.000202	0.927	NA	NA
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000692	0.000650	0.000470	0.00100	0.000167	0.242	0.655	-0.563
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.42	1.40	0.990	1.70	0.174	0.122	-0.864	1.99
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	14	13	93%	2022-11-29 to 2025-02-26		Nonparametric	0.0000520	0.0000520	0.0000520	0.0000520	NA	NA	NA	NA
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal	Gamma	0.00166	0.00145	0.00110	0.00300	0.000560	0.338	1.16	0.918
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000521	0.000475	0.000350	0.000800	0.000143	0.275	0.736	-0.688
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.18	1.10	0.980	1.60	0.187	0.159	1.01	0.379
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	14	9	64%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.000234	0.000250	0.000120	0.000350	0.0000879	0.376	-0.0168	-0.465
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.179	0.180	0.110	0.230	0.0390	0.218	-0.174	-1.12
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	14	8	57%	2022-11-29 to 2025-02-26	Lognormal	Nonparametric	0.000342	0.000275	0.000250	0.000560	0.000126	0.369	1.37	0.645
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	2022-11-29 to 2024-10-16	Lognormal	Lognormal	0.922	0.857	0.625	1.91	0.370	0.401	2.46	6.99
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	5	36%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	0.000247	0.000220	0.000190	0.000470	0.0000889	0.360	2.45	6.23
16_1_5_111	MW-06	Part 115	Copper	mg/L	14	11	79%	2022-11-29 to 2025-02-26		Nonparametric	0.000303	0.000280	0.000250	0.000380	0.0000681	0.224	1.36	NA
16_1_5_114	MW-06	Part 115	Iron	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	18.0	17.5	4.60	31.0	6.48	0.359	0.142	1.06
16_1_5_119	MW-06	Part 115	Nickel	mg/L	14	5	36%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000986	0.000950	0.000790	0.00120	0.000127	0.129	0.313	-0.438
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	14	13	93%	2022-11-29 to 2025-02-26		Nonparametric	0.000640	0.000640	0.000640	0.000640	NA	NA	NA	NA
16_1_5_129	MW-06	Part 115	Zinc	mg/L	14	2	14%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	0.0188	0.00180	0.00120	0.0940	0.0324	1.72	1.63	1.37
17_1_3_105	MW-07	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	11.4	11.0	10.0	13.0	0.929	0.0818	0.487	-0.226
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	144	145	120	160	12.2	0.0847	-0.397	-0.445
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	14.1	14.0	13.0	16.0	0.864	0.0611	0.527	0.243
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	14	3	21%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.111	0.110	0.0680	0.190	0.0388	0.350	0.703	-0.154

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
17_1_3_120	MW-07	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Normal	Normal	6.88	6.88	6.58	7.05	0.133	0.0193	-1.11	1.34
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	25.8	27.5	15.0	37.0	8.16	0.317	-0.0679	-1.75
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	644	660	470	720	76.5	0.119	-1.36	1.38
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.0000710	0.0000710	0.0000710	0.0000710	NA	NA	NA	NA
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000213	0.000215	0.000130	0.000290	0.0000365	0.171	-0.267	2.10
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Normal	Normal	0.345	0.345	0.250	0.420	0.0386	0.112	-0.727	2.75
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	14	11	79%	2022-11-30 to 2025-02-26		Nonparametric	0.0000610	0.0000620	0.0000550	0.0000660	0.00000557	0.0913	-0.782	NA
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal	Gamma	0.000367	0.000335	0.000280	0.000740	0.000116	0.317	2.83	9.18
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000906	0.000915	0.000710	0.00110	0.000111	0.123	-0.232	-0.587
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	14	3	21%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.111	0.110	0.0680	0.190	0.0388	0.350	0.703	-0.154
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00600	0.00565	0.00310	0.0100	0.00167	0.279	0.882	1.88
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	2	15%	2022-11-30 to 2024-10-15	Gamma; Lognormal	Gamma	1.05	0.965	0.670	2.36	0.476	0.452	2.36	6.50
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	14	9	64%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.000148	0.000130	0.000100	0.000230	0.0000531	0.359	1.09	0.322
17_1_5_111	MW-07	Part 115	Copper	mg/L	14	10	71%	2022-11-30 to 2025-02-26		Nonparametric	0.000335	0.000255	0.000210	0.000620	0.000192	0.572	1.90	3.68
17_1_5_114	MW-07	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	15.9	15.5	13.0	19.0	2.03	0.128	0.161	-1.12
17_1_5_119	MW-07	Part 115	Nickel	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.000710	0.000710	0.000710	0.000710	NA	NA	NA	NA
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	14	12	86%	2022-11-30 to 2025-02-26		Nonparametric	0.000870	0.000870	0.000790	0.000950	0.000113	0.130	NA	NA
17_1_5_129	MW-07	Part 115	Zinc	mg/L	14	9	64%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.0124	0.0160	0.00130	0.0250	0.00984	0.796	0.0296	-1.73
18_1_3_105	MW-08	Appendix III	Boron	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	6.15	6.80	2.50	9.30	1.88	0.306	-0.403	-0.498
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	137	135	120	160	13.3	0.0967	0.151	-1.26
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Nonparametric	Nonparametric	32.2	28.5	17.0	99.0	20.1	0.625	3.17	11.0
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Normal	Normal	0.912	1.00	0.400	1.30	0.273	0.300	-0.654	-0.704
18_1_3_120	MW-08	Appendix III	pH (field)	su	14	0	0%	2022-12-01 to 2025-02-26	Nonparametric	Nonparametric	7.18	7.25	6.21	7.51	0.305	0.0425	-2.73	8.94
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	14	4	29%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Gamma	15.5	10.0	1.70	48.0	14.7	0.950	1.27	1.47
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	549	550	440	660	60.9	0.111	0.0933	-0.267
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	14	6	43%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000146	0.000135	0.0000540	0.000280	0.0000706	0.483	0.839	0.776
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Normal	Normal	0.0339	0.0355	0.00690	0.0500	0.0137	0.403	-0.758	-0.278
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.21	1.20	0.940	1.50	0.170	0.141	-0.0343	-0.868
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	14	13	93%	2022-12-01 to 2025-02-26		Nonparametric	0.000120	0.000120	0.000120	0.000120	NA	NA	NA	NA
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	14	13	93%	2022-12-01 to 2025-02-26		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA	NA
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000857	0.000795	0.000610	0.00150	0.000247	0.288	1.46	2.37
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000509	0.000480	0.000340	0.000980	0.000185	0.364	1.26	1.83
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Normal	Normal	0.912	1.00	0.400	1.30	0.273	0.300	-0.654	-0.704
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	14	9	64%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.000862	0.000220	0.000110	0.00290	0.00118	1.37	1.92	3.66
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.104	0.110	0.0630	0.140	0.0241	0.231	-0.120	-0.825
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00139	0.00155	0.000310	0.00280	0.000794	0.572	0.0989	-1.03
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	2022-12-01 to 2024-10-16	Gamma; Lognormal; Normal	Normal	1.18	1.14	0.604	2.10	0.446	0.379	0.901	0.786
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	14	5	36%	2022-12-01 to 2025-02-26	Gamma; Lognormal	Gamma	0.000183	0.000150	0.000120	0.000340	0.0000803	0.438	1.46	0.763
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	14	13	93%	2022-12-01 to 2025-02-26		Nonparametric	0.000130	0.000130	0.000130	0.000130	NA	NA	NA	NA
18_1_5_111	MW-08	Part 115	Copper	mg/L	14	5	36%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000438	0.000430	0.000210	0.000800	0.000186	0.426	0.889	0.534
18_1_5_114	MW-08	Part 115	Iron	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Gamma; Lognormal; Normal	Normal	20.1	20.0	13.0	32.0	5.56	0.276	0.917	0.608
18_1_5_119	MW-08	Part 115	Nickel	mg/L	14	0	0%	2022-12-01 to 2025-02-26	Nonparametric	Nonparametric	0.00253	0.00130	0.000850	0.0130	0.00324	1.28	2.99	9.55
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	14	13	93%	2022-12-01 to 2025-02-26		Nonparametric	0.000910	0.000910	0.000910	0.000910	NA	NA	NA	NA

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
18_1_5_129	MW-08	Part 115	Zinc	mg/L	14	3	21%	2022-12-01 to 2025-02-26	Nonparametric	Nonparametric	0.0320	0.00250	0.00130	0.160	0.0563	1.76	1.77	1.94
19_2_3_105	MW-09	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	5.76	5.85	4.90	6.90	0.547	0.0949	0.223	-0.0218
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	374	395	230	510	84.2	0.225	-0.0258	-0.833
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Lognormal	Lognormal	20.3	16.5	11.0	67.0	14.4	0.710	2.97	9.81
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	2.56	2.55	2.10	2.90	0.262	0.103	-0.139	-0.973
19_2_3_120	MW-09	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.22	7.21	7.00	7.52	0.123	0.0170	0.881	2.26
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Normal	Normal	450	490	83.0	790	233	0.518	-0.298	-1.28
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1400	1450	740	1900	326	0.233	-0.581	-0.284
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	14	9	64%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	0.000177	0.000120	0.0000730	0.000370	0.000124	0.700	1.19	0.370
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	0.00217	0.00230	0.00130	0.00300	0.000543	0.250	-0.610	-0.810
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Lognormal	Lognormal	0.414	0.215	0.0970	2.40	0.584	1.41	3.48	12.5
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	14	11	79%	2022-11-28 to 2025-02-25		Nonparametric	0.0000883	0.0000580	0.0000570	0.000150	0.0000534	0.605	1.73	NA
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00239	0.00240	0.00160	0.00320	0.000538	0.225	0.0631	-1.52
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.000514	0.000495	0.000230	0.000990	0.000227	0.442	0.529	-0.259
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	2.56	2.55	2.10	2.90	0.262	0.103	-0.139	-0.973
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.302	0.295	0.260	0.340	0.0283	0.0938	-0.0640	-1.30
19_2_4_117	MW-09	Appendix IV	Mercury	mg/L	14	12	86%	2022-11-28 to 2025-02-25		Nonparametric	0.00225	0.00225	0.00210	0.00240	0.000212	0.0943	NA	NA
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.0214	0.0210	0.00970	0.0330	0.00651	0.304	-0.0173	-0.242
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	13	12	92%	2022-11-28 to 2024-10-17		Nonparametric	0.789	0.789	0.789	0.789	NA	NA	NA	NA
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	2	14%	2022-11-28 to 2025-02-25	Gamma; Lognormal	Gamma	0.000297	0.000265	0.000120	0.000640	0.000126	0.426	1.91	5.27
19_2_5_111	MW-09	Part 115	Copper	mg/L	14	9	64%	2022-11-28 to 2025-02-25	Gamma; Lognormal	Nonparametric	0.000530	0.000340	0.000290	0.00130	0.000434	0.819	2.14	4.64
19_2_5_114	MW-09	Part 115	Iron	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Normal	19.7	19.0	13.0	26.0	4.14	0.210	0.131	-1.16
19_2_5_119	MW-09	Part 115	Nickel	mg/L	14	0	0%	2022-11-28 to 2025-02-25	Nonparametric	Nonparametric	0.00994	0.00200	0.000720	0.100	0.0261	2.62	3.67	13.6
19_2_5_129	MW-09	Part 115	Zinc	mg/L	14	8	57%	2022-11-28 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	0.0119	0.0126	0.00150	0.0250	0.00944	0.794	0.128	-1.52
20_3_3_105	MW-10	Appendix III	Boron	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	16.5	16.0	4.50	28.0	7.92	0.481	-0.0425	-1.51
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	301	280	160	590	121	0.403	1.18	1.01
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	271	230	92.0	670	159	0.587	1.25	1.66
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	5.21	5.45	2.70	7.70	1.67	0.321	-0.133	-1.17
20_3_3_120	MW-10	Appendix III	pH (field)	su	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.79	7.79	7.05	8.81	0.401	0.0515	0.891	2.99
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	643	555	140	1700	412	0.641	1.26	2.13
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	2050	1850	1500	3200	514	0.251	1.23	0.427
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	14	10	71%	2022-11-29 to 2025-02-26		Nonparametric	0.000172	0.000120	0.000110	0.000340	0.000112	0.650	1.96	3.85
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000709	0.000540	0.000200	0.00200	0.000486	0.685	1.54	2.79
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.290	0.275	0.140	0.570	0.117	0.403	1.14	1.37
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	14	7	50%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Nonparametric	0.000100	0.0000710	0.0000520	0.000220	0.0000627	0.625	1.47	1.37
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00375	0.00355	0.00130	0.00850	0.00208	0.555	1.03	0.804
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	1	7%	2022-11-29 to 2025-02-26	Gamma; Lognormal	Gamma	0.000526	0.000400	0.000100	0.00180	0.000432	0.820	2.44	6.81
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	5.21	5.45	2.70	7.70	1.67	0.321	-0.133	-1.17
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	14	12	86%	2022-11-29 to 2025-02-26		Nonparametric	0.000145	0.000145	0.000120	0.000170	0.0000354	0.244	NA	NA
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.941	0.940	0.540	1.60	0.263	0.279	0.883	2.37
20_3_4_117	MW-10	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-29 to 2025-02-26		Nonparametric	0.00190	0.00190	0.00190	0.00190	NA	NA	NA	NA
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00325	0.00340	0.000650	0.00720	0.00180	0.553	0.580	0.514
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	13	10	77%	2022-11-29 to 2024-10-16		Nonparametric	1.05	0.975	0.817	1.36	0.279	0.266	1.13	NA

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	1	7%	2022-11-29 to 2025-02-26	Gamma; Lognormal	Gamma	0.000374	0.000340	0.000190	0.000830	0.000152	0.407	2.45	7.57
20_3_5_111	MW-10	Part 115	Copper	mg/L	14	11	79%	2022-11-29 to 2025-02-26		Nonparametric	0.000723	0.000490	0.000380	0.00130	0.000502	0.695	1.64	NA
20_3_5_114	MW-10	Part 115	Iron	mg/L	14	0	0%	2022-11-29 to 2025-02-26	Gamma; Lognormal; Normal	Normal	4.99	4.85	2.40	7.30	1.62	0.324	0.0755	-1.37
20_3_5_119	MW-10	Part 115	Nickel	mg/L	14	7	50%	2022-11-29 to 2025-02-26	Nonparametric	Nonparametric	0.00104	0.000880	0.000760	0.00180	0.000364	0.351	2.0	3.93
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	14	11	79%	2022-11-29 to 2025-02-26		Nonparametric	0.00106	0.00100	0.000890	0.00130	0.000212	0.200	1.22	NA
20_3_5_129	MW-10	Part 115	Zinc	mg/L	14	6	43%	2022-11-29 to 2025-02-26	Gamma; Lognormal	Gamma	0.00614	0.00215	0.00120	0.0140	0.00626	1.02	0.637	-2.20
21_2_3_105	MW-11	Appendix III	Boron	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	5.94	5.00	1.50	13.0	3.56	0.600	0.742	-0.230
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	263	270	130	380	72.3	0.275	-0.360	-0.370
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	68.6	71.5	38.0	95.0	15.4	0.225	-0.191	-0.123
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.618	0.540	0.210	1.40	0.367	0.594	0.868	0.0830
21_2_3_120	MW-11	Appendix III	pH (field)	su	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.31	7.33	7.09	7.47	0.108	0.0148	-0.585	0.0724
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	14	5	36%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	63.9	17.0	1.80	210	79	1.24	1.28	0.110
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	1065	1000	680	1800	257	0.241	1.75	5.10
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	14	10	71%	2022-11-29 to 2025-02-25		Nonparametric	0.000333	0.000280	0.0000820	0.000690	0.000256	0.768	1.17	2.29
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	0.00161	0.00145	0.000610	0.00410	0.000827	0.514	2.27	6.65
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.651	0.580	0.360	1.20	0.217	0.334	1.22	1.98
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	14	11	79%	2022-11-29 to 2025-02-25		Nonparametric	0.000206	0.0000910	0.0000880	0.000440	0.000202	0.981	1.73	NA
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	14	12	86%	2022-11-29 to 2025-02-25		Nonparametric	0.000445	0.000445	0.000160	0.000730	0.000403	0.906	NA	NA
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00143	0.000865	0.000450	0.00860	0.00209	1.46	3.58	13.1
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal	Gamma	0.000629	0.000400	0.000230	0.00240	0.000571	0.909	2.65	7.71
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.618	0.540	0.210	1.40	0.367	0.594	0.868	0.0830
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00713	0.000420	0.000170	0.0680	0.0202	2.84	3.30	10.9
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Gamma	0.0674	0.0515	0.00590	0.220	0.0592	0.878	1.51	2.38
21_2_4_117	MW-11	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-29 to 2025-02-25		Nonparametric	0.00110	0.00110	0.00110	0.00110	NA	NA	NA	NA
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14	2	14%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00135	0.00115	0.000430	0.00300	0.000848	0.627	1.13	0.433
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	2022-11-29 to 2024-10-16	Gamma; Lognormal; Normal	Normal	1.12	1.07	0.624	1.76	0.403	0.360	0.563	-0.979
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.000260	0.000200	0.000140	0.000710	0.000169	0.651	2.24	5.26
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	14	13	93%	2022-11-29 to 2025-02-25		Nonparametric	0.000210	0.000210	0.000210	0.000210	NA	NA	NA	NA
21_2_5_111	MW-11	Part 115	Copper	mg/L	14	3	21%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00231	0.000430	0.000200	0.0190	0.00557	2.41	3.24	10.6
21_2_5_114	MW-11	Part 115	Iron	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Normal	6.99	6.90	3.60	11.0	2.40	0.343	0.0746	-1.19
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0	0%	2022-11-29 to 2025-02-25	Nonparametric	Nonparametric	0.00194	0.00140	0.000650	0.00940	0.00221	1.14	3.40	12.1
21_2_5_123	MW-11	Part 115	Silver	mg/L	14	12	86%	2022-11-29 to 2025-02-25		Nonparametric	0.000155	0.000155	0.000140	0.000170	0.0000212	0.137	NA	NA
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	14	12	86%	2022-11-29 to 2025-02-25		Nonparametric	0.00181	0.00181	0.000620	0.00300	0.00168	0.930	NA	NA
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	4	29%	2022-11-29 to 2025-02-25	Gamma; Lognormal; Normal	Gamma	0.0260	0.0203	0.00180	0.100	0.0302	1.16	1.81	3.89
22_2_3_105	MW-12	Appendix III	Boron	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.307	0.300	0.190	0.420	0.0828	0.270	0.00916	-1.69
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	67.3	69.0	40.0	95.0	18.0	0.268	-0.0810	-0.842
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	19.5	18.0	12.0	27.0	4.82	0.247	0.470	-0.990
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.329	0.285	0.200	0.540	0.112	0.341	0.679	-1.02
22_2_3_120	MW-12	Appendix III	pH (field)	su	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.68	7.70	7.00	8.32	0.343	0.0446	0.0208	0.269
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	111	110	52.0	180	38.6	0.348	0.387	-0.135
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	279	285	100	420	87.9	0.315	-0.344	-0.313
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000716	0.000675	0.000350	0.00150	0.000325	0.454	1.06	1.12
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00233	0.00215	0.00140	0.00340	0.000714	0.307	0.157	-1.77

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0411	0.0310	0.0170	0.100	0.0237	0.577	1.34	1.55
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00147	0.00120	0.000540	0.00320	0.000859	0.586	0.879	-0.395
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	14	5	36%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000566	0.000480	0.000250	0.000990	0.000258	0.456	0.804	-0.481
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	14	5	36%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000400	0.000380	0.000110	0.000930	0.000262	0.655	0.913	0.766
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.329	0.285	0.200	0.540	0.112	0.341	0.679	-1.02
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	14	6	43%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000262	0.000210	0.000140	0.000470	0.000130	0.497	0.658	-1.49
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00371	0.00370	0.00190	0.00640	0.00144	0.388	0.415	-0.732
22_2_4_117	MW-12	Appendix IV	Mercury	mg/L	14	12	86%	2022-11-28 to 2025-02-26		Nonparametric	0.000195	0.000195	0.000160	0.000230	0.0000495	0.254	NA	NA
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal	Gamma	0.00787	0.00705	0.00460	0.0180	0.00329	0.419	2.41	7.34
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	13	9	69%	2022-11-28 to 2024-10-16		Nonparametric	0.761	0.716	0.522	1.09	0.249	0.328	0.835	-0.293
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Gamma	0.00121	0.000910	0.000130	0.00430	0.00115	0.948	1.59	3.03
22_2_5_111	MW-12	Part 115	Copper	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00133	0.00120	0.000550	0.00340	0.000695	0.523	2.18	6.15
22_2_5_114	MW-12	Part 115	Iron	mg/L	14	6	43%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0564	0.0440	0.0210	0.150	0.0414	0.735	1.96	4.35
22_2_5_119	MW-12	Part 115	Nickel	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00255	0.00255	0.00140	0.00350	0.000728	0.286	-0.331	-0.957
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	14	6	43%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00120	0.00108	0.000740	0.00210	0.000461	0.383	1.16	0.843
22_2_5_129	MW-12	Part 115	Zinc	mg/L	14	0	0%	2022-11-28 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00814	0.00800	0.00270	0.0170	0.00345	0.425	0.975	2.71
28_1_3_105	MW-18	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	2.89	2.65	1.80	4.40	0.885	0.306	0.423	-1.38
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	344	345	240	450	60.7	0.176	-0.231	-0.312
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	23.3	24.0	16.0	32.0	4.65	0.200	-0.0403	-0.429
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	3.89	3.80	2.70	5.10	0.685	0.176	0.205	-0.701
28_1_3_120	MW-18	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.17	7.17	7.02	7.31	0.0770	0.0107	-0.314	0.546
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	829	770	480	1200	214	0.259	0.614	-0.264
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1414	1400	1100	1800	199	0.141	0.450	-0.323
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	14	3	21%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.000173	0.000130	0.000110	0.000320	0.0000763	0.442	1.26	0.107
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0274	0.0285	0.0150	0.0440	0.00803	0.294	0.689	0.413
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0194	0.0195	0.0120	0.0280	0.00503	0.260	0.0462	-1.25
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	14	12	86%	2022-11-30 to 2025-02-26		Nonparametric	0.0000560	0.0000560	0.0000530	0.0000590	0.00000424	0.0758	NA	NA
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	14	6	43%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000227	0.000200	0.0000890	0.000440	0.000115	0.508	0.731	0.254
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.000250	0.000250	0.000250	0.000250	NA	NA	NA	NA
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.00286	0.00230	0.00140	0.00600	0.00149	0.519	1.23	0.258
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	3.89	3.80	2.70	5.10	0.685	0.176	0.205	-0.701
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	14	9	64%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.000182	0.000150	0.000140	0.000320	0.0000776	0.426	2.17	4.77
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0348	0.0355	0.0200	0.0450	0.00805	0.231	-0.301	-1.30
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0150	0.0135	0.00900	0.0210	0.00404	0.269	0.343	-1.31
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.729	0.618	0.462	1.27	0.317	0.435	1.74	3.28
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000576	0.000375	0.000140	0.00200	0.000528	0.917	1.70	3.14
28_1_5_111	MW-18	Part 115	Copper	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.000661	0.000475	0.000330	0.00170	0.000422	0.638	1.91	2.70
28_1_5_114	MW-18	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	6.71	6.85	4.30	10.0	1.55	0.231	0.474	0.0699
28_1_5_119	MW-18	Part 115	Nickel	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.00652	0.00545	0.00370	0.0110	0.00238	0.366	1.05	-0.142
28_1_5_129	MW-18	Part 115	Zinc	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0491	0.0440	0.0170	0.0880	0.0195	0.397	0.399	-0.230
29_1_3_105	MW-19	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	2.05	2.00	1.50	2.60	0.390	0.190	0.0409	-1.32
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	471	475	360	550	49.7	0.106	-0.716	0.872
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	44.4	40.0	23.0	75.0	14.8	0.334	0.815	0.125

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.87	1.90	1.40	2.30	0.273	0.146	-0.1000	-0.850
29_1_3_120	MW-19	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	6.84	6.87	6.39	7.07	0.166	0.0242	-1.47	3.51
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1006	1000	600	1300	197	0.196	-0.283	-0.0375
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1879	1850	1600	2200	236	0.126	0.216	-1.63
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	14	12	86%	2022-11-30 to 2025-02-26		Nonparametric	0.000590	0.000590	0.000460	0.000720	0.000184	0.312	NA	NA
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00523	0.00550	0.00260	0.00730	0.00159	0.303	-0.324	-1.34
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0394	0.0380	0.0300	0.0500	0.00554	0.141	0.446	-0.298
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	14	3	21%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0000750	0.0000720	0.0000570	0.000110	0.0000159	0.212	0.940	0.949
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	14	5	36%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000307	0.000270	0.000200	0.000530	0.0000954	0.311	1.82	4.0
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	14	1	7%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000552	0.000460	0.000130	0.00120	0.000306	0.555	0.703	0.225
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	1.87	1.90	1.40	2.30	0.273	0.146	-0.1000	-0.850
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0913	0.0900	0.0730	0.110	0.0112	0.122	0.150	-0.209
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0105	0.0105	0.00390	0.0190	0.00368	0.349	0.328	1.56
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	13	5	38%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Normal	0.851	0.918	0.514	1.17	0.254	0.298	-0.302	-1.77
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	14	10	71%	2022-11-30 to 2025-02-26		Nonparametric	0.000142	0.000125	0.000120	0.000200	0.0000386	0.271	1.91	3.68
29_1_5_111	MW-19	Part 115	Copper	mg/L	14	12	86%	2022-11-30 to 2025-02-26		Nonparametric	0.000285	0.000285	0.000220	0.000350	0.0000919	0.323	NA	NA
29_1_5_114	MW-19	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	17.0	16.5	12.0	24.0	3.49	0.205	0.483	-0.390
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	1	7%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.00322	0.00240	0.00110	0.0170	0.00422	1.31	3.38	11.8
29_1_5_129	MW-19	Part 115	Zinc	mg/L	14	10	71%	2022-11-30 to 2025-02-26		Nonparametric	0.00325	0.00325	0.00190	0.00460	0.00135	0.415	0.00000000000000225	-5.15
30_1_3_105	MW-20	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal; Normal	Normal	0.953	0.895	0.720	1.30	0.176	0.185	0.450	-0.943
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	123	125	58.0	170	24.1	0.196	-1.11	4.53
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	64.4	68.0	29.0	92.0	17.2	0.268	-0.510	0.267
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.254	0.235	0.120	0.550	0.0939	0.369	2.51	8.70
30_1_3_120	MW-20	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	7.35	7.34	7.14	7.50	0.110	0.0149	-0.468	-0.784
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	58.1	52.0	18.0	120	33.7	0.580	0.481	-0.952
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	663	655	510	840	86.5	0.131	0.311	0.396
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	14	4	29%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000103	0.000105	0.0000540	0.000160	0.0000346	0.336	0.0500	-0.811
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00143	0.00140	0.00100	0.00190	0.000281	0.197	0.192	-1.22
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.514	0.465	0.310	0.940	0.171	0.333	1.64	2.40
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.0000590	0.0000590	0.0000590	0.0000590	NA	NA	NA	NA
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	14	6	43%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000231	0.000220	0.000190	0.000290	0.0000327	0.141	0.767	-0.0888
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00120	0.00120	0.000690	0.00160	0.000266	0.222	-0.135	-0.489
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.254	0.235	0.120	0.550	0.0939	0.369	2.51	8.70
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00195	0.00180	0.00130	0.00280	0.000482	0.247	0.615	-0.635
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.0598	0.0610	0.0290	0.0830	0.0153	0.256	-0.552	0.144
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.00446	0.00460	0.00330	0.00580	0.000693	0.155	0.1000	-0.451
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.854	0.725	0.534	1.47	0.362	0.423	1.16	0.470
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	14	8	57%	2022-11-30 to 2025-02-26	Nonparametric	Nonparametric	0.000140	0.000120	0.000100	0.000260	0.0000600	0.429	2.23	5.18
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	14	13	93%	2022-11-30 to 2025-02-26		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA	NA
30_1_5_111	MW-20	Part 115	Copper	mg/L	14	2	14%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	0.000380	0.000340	0.000230	0.000820	0.000174	0.457	1.65	2.92
30_1_5_114	MW-20	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Lognormal; Normal	Normal	18.7	18.5	14.0	22.0	2.37	0.127	-0.333	-0.358
30_1_5_119	MW-20	Part 115	Nickel	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Gamma; Normal	Normal	0.00810	0.00855	0.00450	0.00990	0.00163	0.201	-0.872	0.0330
30_1_5_129	MW-20	Part 115	Zinc	mg/L	14	0	0%	2022-11-30 to 2025-02-26	Lognormal	Lognormal	0.0321	0.0265	0.0150	0.0710	0.0172	0.536	1.42	0.887

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	1.97	1.90	1.40	3.50	0.487	0.247	2.56	8.30
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	502	460	390	960	151	0.301	2.61	6.98
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	232	130	82.0	1200	292	1.26	3.23	11
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.189	0.174	-1.40	4.02
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Normal	Normal	7.05	7.11	6.48	7.25	0.200	0.0284	-2.02	4.70
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Normal	Normal	854	900	440	1000	160	0.187	-1.66	2.67
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	2350	2200	1800	4000	524	0.223	2.69	8.41
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	14	12	86%	2022-11-30 to 2025-02-25		Nonparametric	0.000525	0.000525	0.000400	0.000650	0.000177	0.337	NA	NA
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	2	14%	2022-11-30 to 2025-02-25	Gamma; Lognormal	Gamma	0.000617	0.000450	0.000120	0.00220	0.000549	0.890	2.48	7.09
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.0676	0.0620	0.0410	0.100	0.0217	0.320	0.473	-1.36
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	14	12	86%	2022-11-30 to 2025-02-25		Nonparametric	0.0000815	0.0000815	0.0000530	0.000110	0.0000403	0.495	NA	NA
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00902	0.00935	0.00310	0.0140	0.00339	0.376	-0.239	-1.11
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.00453	0.00110	0.000470	0.0460	0.0120	2.64	3.69	13.7
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.189	0.174	-1.40	4.02
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.00170	0.00170	0.00170	0.00170	NA	NA	NA	NA
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Lognormal	Lognormal	0.135	0.120	0.100	0.270	0.0422	0.313	2.84	9.11
40_1_4_117	MW-30	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.000390	0.000390	0.000390	0.000390	NA	NA	NA	NA
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	14	3	21%	2022-11-30 to 2025-02-25	Lognormal	Nonparametric	0.00278	0.000890	0.000320	0.0190	0.00545	1.96	3.16	10.2
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.660	0.595	0.445	0.911	0.189	0.287	0.599	-1.60
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	14	7	50%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	0.000180	0.000130	0.000100	0.000390	0.000104	0.579	1.71	2.67
40_1_5_111	MW-30	Part 115	Copper	mg/L	14	10	71%	2022-11-30 to 2025-02-25		Nonparametric	0.000358	0.000325	0.000240	0.000540	0.000133	0.373	1.12	0.622
40_1_5_114	MW-30	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	3.24	2.70	0.870	8.80	2.15	0.663	1.45	2.41
40_1_5_119	MW-30	Part 115	Nickel	mg/L	14	3	21%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.0119	0.00180	0.000700	0.110	0.0326	2.75	3.31	11
40_1_5_129	MW-30	Part 115	Zinc	mg/L	14	10	71%	2022-11-30 to 2025-02-25		Nonparametric	0.0284	0.00510	0.00330	0.100	0.0478	1.68	2.0	3.99
41_1_3_105	MW-31	Appendix III	Boron	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	4.63	4.50	3.60	5.80	0.637	0.138	0.222	-0.543
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	169	170	130	200	19.9	0.118	-0.0429	-0.164
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	103	100	87.0	120	9.07	0.0883	0.0960	-0.511
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	4.71	4.70	4.10	5.20	0.288	0.0611	-0.0760	0.584
41_1_3_120	MW-31	Appendix III	pH (field)	su	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.84	7.83	7.67	8.02	0.110	0.0141	0.475	-0.535
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	153	155	45.0	250	68.8	0.450	0.0984	-1.07
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	801	795	730	940	60.1	0.0750	0.850	0.569
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	14	6	43%	2022-12-01 to 2025-02-25	Gamma; Lognormal	Gamma	0.000247	0.000125	0.0000690	0.000690	0.000220	0.891	1.35	1.15
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00127	0.00120	0.000950	0.00180	0.000251	0.198	0.850	0.0606
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.173	0.160	0.120	0.290	0.0478	0.276	1.18	1.34
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	14	12	86%	2022-12-01 to 2025-02-25		Nonparametric	0.0000750	0.0000750	0.0000540	0.0000960	0.0000297	0.396	NA	NA
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	14	13	93%	2022-12-01 to 2025-02-25		Nonparametric	0.0000840	0.0000840	0.0000840	0.0000840	NA	NA	NA	NA
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00236	0.00225	0.00170	0.00410	0.000622	0.264	1.83	4.15
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	14	2	14%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.000190	0.000180	0.000100	0.000360	0.0000698	0.367	1.46	2.51
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	4.71	4.70	4.10	5.20	0.288	0.0611	-0.0760	0.584
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	14	12	86%	2022-12-01 to 2025-02-25		Nonparametric	0.000280	0.000280	0.000250	0.000310	0.0000424	0.152	NA	NA
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.0500	0.0520	0.0390	0.0630	0.00662	0.132	-0.150	0.135
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00124	0.00115	0.000520	0.00210	0.000384	0.310	0.599	1.50
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	2022-12-01 to 2024-10-15	Gamma; Lognormal	Gamma	0.751	0.673	0.502	1.23	0.259	0.345	1.28	0.303

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness	Kurtosis
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	14	6	43%	2022-12-01 to 2025-02-25	Nonparametric	Nonparametric	0.000206	0.000135	0.000100	0.000740	0.000217	1.05	2.78	7.80
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	14	13	93%	2022-12-01 to 2025-02-25		Nonparametric	0.0000880	0.0000880	0.0000880	0.0000880	NA	NA	NA	NA
41_1_5_111	MW-31	Part 115	Copper	mg/L	14	9	64%	2022-12-01 to 2025-02-25	Gamma; Lognormal; Normal	Nonparametric	0.000308	0.000290	0.000230	0.000440	0.0000795	0.258	1.46	2.73
41_1_5_114	MW-31	Part 115	Iron	mg/L	14	0	0%	2022-12-01 to 2025-02-25	Nonparametric	Nonparametric	0.759	0.500	0.120	2.50	0.718	0.946	1.13	0.997
41_1_5_119	MW-31	Part 115	Nickel	mg/L	14	10	71%	2022-12-01 to 2025-02-25		Nonparametric	0.00752	0.00250	0.00210	0.0230	0.0103	1.37	2.0	3.99
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	14	12	86%	2022-12-01 to 2025-02-25		Nonparametric	0.000735	0.000735	0.000640	0.000830	0.000134	0.183	NA	NA
41_1_5_129	MW-31	Part 115	Zinc	mg/L	14	9	64%	2022-12-01 to 2025-02-25	Normal	Nonparametric	0.00852	0.0100	0.00140	0.0130	0.00434	0.509	-1.35	2.53
42_1_3_105	MW-32	Appendix III	Boron	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Lognormal	Lognormal	3.55	3.10	2.60	5.60	0.862	0.243	1.38	1.39
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	174	180	130	220	25.6	0.148	-0.0799	-0.711
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	45.4	46.0	38.0	50.0	4.40	0.0969	-0.324	-1.38
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1.53	1.50	1.20	1.90	0.173	0.113	0.527	1.23
42_1_3_120	MW-32	Appendix III	pH (field)	su	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	7.61	7.61	7.50	7.75	0.0744	0.00978	0.199	-0.821
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Gamma	78.7	68.5	5.90	190	62.3	0.792	0.438	-1.13
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	686	690	550	800	90.9	0.132	-0.194	-1.52
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	14	10	71%	2022-11-30 to 2025-02-25		Nonparametric	0.000245	0.000106	0.0000670	0.000700	0.000305	1.25	1.93	3.75
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.000664	0.000565	0.000390	0.00240	0.000506	0.761	3.59	13.2
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.571	0.570	0.0590	1.30	0.312	0.546	0.858	1.29
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.0000700	0.0000700	0.0000700	0.0000700	NA	NA	NA	NA
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.000190	0.000190	0.000190	0.000190	NA	NA	NA	NA
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.000608	0.000385	0.000310	0.00300	0.000697	1.15	3.59	13.2
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal	Gamma	0.000514	0.000385	0.000210	0.00190	0.000421	0.819	3.13	10.7
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	1.53	1.50	1.20	1.90	0.173	0.113	0.527	1.23
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	14	10	71%	2022-11-30 to 2025-02-25		Nonparametric	0.000265	0.000260	0.000120	0.000420	0.000157	0.592	0.0419	-5.60
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.130	0.125	0.0940	0.200	0.0326	0.251	1.09	0.646
42_1_4_117	MW-32	Appendix IV	Mercury	mg/L	14	13	93%	2022-11-30 to 2025-02-25		Nonparametric	0.00190	0.00190	0.00190	0.00190	NA	NA	NA	NA
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	0.00426	0.00440	0.00250	0.00730	0.00113	0.265	1.30	3.57
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	2022-11-30 to 2024-10-16	Gamma; Lognormal; Normal	Nonparametric	0.785	0.847	0.603	0.985	0.169	0.216	-0.179	-2.46
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	14	11	79%	2022-11-30 to 2025-02-25		Nonparametric	0.000423	0.000140	0.000130	0.00100	0.000499	1.18	1.73	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	14	8	57%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.00292	0.000330	0.000200	0.0160	0.00641	2.20	2.45	6.0
42_1_5_114	MW-32	Part 115	Iron	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Gamma; Lognormal; Normal	Normal	15.6	16.5	11.0	20.0	3.00	0.192	-0.354	-1.21
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.00260	0.000980	0.000680	0.0230	0.00588	2.26	3.73	13.9
42_1_5_129	MW-32	Part 115	Zinc	mg/L	14	0	0%	2022-11-30 to 2025-02-25	Nonparametric	Nonparametric	0.0155	0.00325	0.00220	0.0680	0.0225	1.45	1.64	1.51

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal				Lognormal				Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value			
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	14	0	0%	0.954	0.622	0.134	0.706	0.913	0.172	0.168	0.348	0.154	>= 0.10	0.376	>= 0.10	0.412	Gamma; Lognormal; Normal	Normal
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	14	0	0%	0.945	0.492	0.133	0.720	0.970	0.872	0.133	0.721	0.138	>= 0.10	0.244	>= 0.10	0.334	Gamma; Lognormal; Normal	Normal
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.915	0.183	0.199	0.138	0.822	0.009	0.262	0.010	0.233	0.01 <= p < 0.05	0.950	0.01 <= p < 0.05	0.463	Normal	Normal
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	14	0	0%	0.872	0.045	0.309	0.001	0.843	0.018	0.311	0.001	0.320	< 0.01	0.966	0.01 <= p < 0.05	0.365	Nonparametric	Nonparametric
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0	0%	0.438	0.000	0.364	0.000	0.422	0.000	0.382	0.000	0.370	< 0.01	3.495	< 0.01	0.067	Nonparametric	Nonparametric
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.939	0.409	0.149	0.550	0.824	0.010	0.219	0.068	0.158	>= 0.10	0.429	>= 0.10	1.255	Gamma; Lognormal; Normal	Gamma
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.938	0.387	0.223	0.058	0.935	0.360	0.230	0.044	0.234	0.01 <= p < 0.05	0.582	>= 0.10	0.055	Gamma; Lognormal; Normal	Normal
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	3	21%	0.651	0.000	0.351	0.000	0.809	0.012	0.242	0.070	0.279	0.01 <= p < 0.05	1.190	< 0.01	0.617	Lognormal	Lognormal
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0	0%	0.703	0.000	0.253	0.015	0.877	0.053	0.256	0.014	0.234	0.01 <= p < 0.05	0.950	0.01 <= p < 0.05	0.413	Lognormal	Lognormal
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	14	0	0%	0.901	0.116	0.189	0.194	0.950	0.561	0.141	0.629	0.162	>= 0.10	0.343	>= 0.10	0.322	Gamma; Lognormal; Normal	Normal
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14	2	14%	0.891	0.120	0.205	0.177	0.914	0.242	0.151	0.633	0.158	>= 0.10	0.439	>= 0.10	0.397	Gamma; Lognormal; Normal	Normal
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.866		Nonparametric
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.443	0.000	0.379	0.000	0.764	0.002	0.222	0.059	0.280	< 0.01	1.869	< 0.01	0.740	Lognormal	Lognormal
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	14	0	0%	0.720	0.001	0.291	0.002	0.878	0.054	0.243	0.024	0.272	< 0.01	1.113	< 0.01	0.568	Lognormal	Lognormal
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.872	0.045	0.309	0.001	0.843	0.018	0.311	0.001	0.320	< 0.01	0.966	0.01 <= p < 0.05	0.365	Nonparametric	Nonparametric
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	2	14%	0.579	0.000	0.318	0.002	0.894	0.134	0.201	0.201	0.258	0.01 <= p < 0.05	0.990	0.01 <= p < 0.05	0.702	Lognormal	Lognormal
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	14	0	0%	0.945	0.491	0.137	0.675	0.886	0.070	0.171	0.326	0.169	>= 0.10	0.466	>= 0.10	0.417	Gamma; Lognormal; Normal	Normal
11_2_4_117	MW-01R	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	1	7%	0.600	0.000	0.302	0.002	0.903	0.147	0.211	0.117	0.264	0.01 <= p < 0.05	0.908	0.01 <= p < 0.05	0.784	Lognormal	Lognormal
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	0.897	0.358	0.248	0.296	0.874	0.243	0.284	0.137	0.283	>= 0.10	0.437	>= 0.10	0.302	Gamma; Lognormal; Normal	Nonparametric
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0	0%	0.727	0.001	0.287	0.003	0.898	0.106	0.201	0.132	0.225	0.05 <= p < 0.10	0.836	0.01 <= p < 0.05	0.391	Gamma; Lognormal	Gamma
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_5_111	MW-01R	Part 115	Copper	mg/L	14	5	36%	0.691	0.001	0.344	0.003	0.763	0.008	0.284	0.035	0.295	0.01 <= p < 0.05	1.165	< 0.01	0.586	Nonparametric	Nonparametric
11_2_5_114	MW-01R	Part 115	Iron	mg/L	14	0	0%	0.926	0.266	0.166	0.371	0.877	0.053	0.239	0.029	0.199	>= 0.10	0.580	>= 0.10	0.898	Gamma; Lognormal; Normal	Normal
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0	0%	0.436	0.000	0.423	0.000	0.734	0.001	0.291	0.002	0.367	< 0.01	2.179	< 0.01	0.738	Nonparametric	Nonparametric
11_2_5_123	MW-01R	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14	2	14%	0.863	0.053	0.285	0.008	0.931	0.392	0.178	0.363	0.214	>= 0.10	0.453	>= 0.10	0.610	Gamma; Lognormal; Normal	Normal
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	14	3	21%	0.779	0.005	0.296	0.008	0.813	0.014	0.282	0.014	0.309	0.01 <= p < 0.05	0.930	0.01 <= p < 0.05	1.345	Nonparametric	Nonparametric
12_2_3_105	MW-02	Appendix III	Boron	mg/L	14	0	0%	0.768	0.002	0.325	0.000	0.859	0.029	0.280	0.004	0.290	< 0.01	0.919	0.01 <= p < 0.05	0.188	Nonparametric	Nonparametric
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	14	0	0%	0.905	0.131	0.188	0.197	0.910	0.160	0.201	0.131	0.202	>= 0.10	0.576	>= 0.10	0.086	Gamma; Lognormal; Normal	Normal
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.600	0.000	0.387	0.000	0.513	0.000	0.411	0.000	0.407	< 0.01	2.606	< 0.01	0.210	Nonparametric	Nonparametric
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0	0%	0.748	0.001	0.319	0.000	0.716	0.001	0.307	0.001	0.288	< 0.01	1.752	< 0.01	0.259	Nonparametric	Nonparametric
12_2_3_120	MW-02	Appendix III	pH (field)	su	14	0	0%	0.923	0.242	0.200	0.136	0.925	0.255	0.199	0.141	0.205	>= 0.10	0.503	>= 0.10	0.016	Gamma; Lognormal; Normal	Normal
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	14	9	64%	0.865	0.247	0.281	0.218	0.887	0.340	0.245	0.418	0.276	>= 0.10	0.427	>= 0.10	0.416	Gamma; Lognormal; Normal	Nonparametric
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.860	0.031	0.164	0.386	0.906	0.139	0.158	0.447	0.166	>= 0.10	0.514	>= 0.10	0.124	Gamma; Lognormal; Normal	Normal
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	3	21%	0.665	0.000	0.279	0.017	0.836	0.028	0.194	0.292	0.209	>= 0.10	0.860	0.01 <= p < 0.05	0.414	Gamma; Lognormal	Gamma
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0	0%	0.830	0.012	0.234	0.037	0.496	0.000	0.387	0.000	0.335	< 0.01	2.292	< 0.01	0.798	Nonparametric	Nonparametric
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	14	0	0%	0.923	0.245	0.137	0.672	0.956	0.665	0.132	0.735	0.117	>= 0.10	0.294	>= 0.10	0.223	Gamma; Lognormal; Normal	Normal
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	14	1	7%	0.951	0.612	0.159	0.491	0.978	0.968	0.109	0.942	0.133	>= 0.10	0.183	>= 0.10	0.438	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal				Lognormal				Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value			
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.149		Nonparametric	
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.969	0.862	0.123	0.818	0.570	0.000	0.301	0.001	0.247	0.01 <= p < 0.05	1.333	< 0.01	1.306	Normal	Normal
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	14	0	0%	0.958	0.684	0.165	0.376	0.626	0.000	0.277	0.005	0.258	0.01 <= p < 0.05	1.217	< 0.01	0.919	Normal	Normal
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.748	0.001	0.319	0.000	0.716	0.001	0.307	0.001	0.288	< 0.01	1.752	< 0.01	0.259	Nonparametric	Nonparametric
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	14	1	7%	0.894	0.109	0.184	0.270	0.967	0.857	0.116	0.901	0.143	>= 0.10	0.326	>= 0.10	0.506	Gamma; Lognormal; Normal	Normal
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	14	0	0%	0.890	0.080	0.196	0.151	0.937	0.384	0.175	0.289	0.164	>= 0.10	0.463	>= 0.10	0.219	Gamma; Lognormal; Normal	Normal
12_2_4_117	MW-02	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	Nonparametric
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	14	0	0%	0.794	0.004	0.295	0.002	0.892	0.087	0.231	0.041	0.258	0.01 <= p < 0.05	0.902	0.01 <= p < 0.05	0.410	Lognormal	Lognormal
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	0.887	0.186	0.249	0.111	0.969	0.882	0.160	0.726	0.185	>= 0.10	0.282	>= 0.10	0.491	Gamma; Lognormal; Normal	Normal
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0	0%	0.934	0.346	0.218	0.069	0.918	0.206	0.182	0.234	0.178	>= 0.10	0.481	>= 0.10	0.405	Gamma; Lognormal; Normal	Normal
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	Nonparametric
12_2_5_111	MW-02	Part 115	Copper	mg/L	14	0	0%	0.954	0.625	0.132	0.735	0.854	0.025	0.193	0.167	0.161	>= 0.10	0.428	>= 0.10	0.706	Gamma; Lognormal; Normal	Normal
12_2_5_114	MW-02	Part 115	Iron	mg/L	14	0	0%	0.963	0.771	0.121	0.837	0.976	0.948	0.091	0.990	0.099	>= 0.10	0.177	>= 0.10	0.163	Gamma; Lognormal; Normal	Normal
12_2_5_119	MW-02	Part 115	Nickel	mg/L	14	0	0%	0.911	0.163	0.233	0.039	0.695	0.000	0.316	0.000	0.248	0.01 <= p < 0.05	0.890	0.01 <= p < 0.05	0.941	Normal	Normal
12_2_5_123	MW-02	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	Nonparametric
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	14	1	7%	0.963	0.793	0.130	0.789	0.894	0.112	0.180	0.298	0.144	>= 0.10	0.383	>= 0.10	0.514	Gamma; Lognormal; Normal	Normal
12_2_5_129	MW-02	Part 115	Zinc	mg/L	14	0	0%	0.689	0.000	0.396	0.000	0.782	0.003	0.303	0.001	0.357	< 0.01	1.762	< 0.01	1.068	Nonparametric	Nonparametric
13_2_3_105	MW-03	Appendix III	Boron	mg/L	14	0	0%	0.909	0.154	0.165	0.375	0.886	0.072	0.166	0.368	0.178	>= 0.10	0.557	>= 0.10	0.084	Gamma; Lognormal; Normal	Normal
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	14	0	0%	0.982	0.984	0.123	0.821	0.975	0.936	0.103	0.953	0.113	>= 0.10	0.196	>= 0.10	0.108	Gamma; Lognormal; Normal	Normal
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.903	0.124	0.179	0.258	0.971	0.891	0.128	0.777	0.136	>= 0.10	0.262	>= 0.10	0.305	Gamma; Lognormal; Normal	Normal
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	14	0	0%	0.428	0.000	0.458	0.000	0.524	0.000	0.407	0.000	0.429	< 0.01	2.986	< 0.01	0.272	Nonparametric	Nonparametric
13_2_3_120	MW-03	Appendix III	pH (field)	su	14	0	0%	0.942	0.451	0.194	0.162	0.945	0.482	0.192	0.172	0.197	>= 0.10	0.434	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.973	0.917	0.092	0.987	0.811	0.007	0.249	0.019	0.206	>= 0.10	0.631	0.05 <= p < 0.10	0.947	Gamma; Normal	Normal
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.805	0.006	0.254	0.015	0.804	0.006	0.263	0.010	0.270	< 0.01	1.249	< 0.01	0.120	Nonparametric	Nonparametric
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	14	8	57%	0.669	0.003	0.366	0.012	0.815	0.080	0.256	0.250	0.299	>= 0.10	0.738	0.01 <= p < 0.05	0.608	Gamma; Lognormal	Nonparametric
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	14	0	0%	0.955	0.633	0.167	0.363	0.903	0.125	0.173	0.308	0.181	>= 0.10	0.477	>= 0.10	0.306	Gamma; Lognormal; Normal	Normal
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	14	0	0%	0.943	0.456	0.131	0.738	0.814	0.008	0.182	0.237	0.159	>= 0.10	0.633	0.05 <= p < 0.10	0.330	Gamma; Lognormal; Normal	Normal
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	14	9	64%	0.768	0.043	0.352	0.042	0.761	0.038	0.344	0.053	0.373	0.01 <= p < 0.05	0.737	0.01 <= p < 0.05	0.607	Lognormal	Nonparametric
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	Nonparametric
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.932	0.323	0.188	0.197	0.950	0.567	0.179	0.261	0.191	>= 0.10	0.354	>= 0.10	0.271	Gamma; Lognormal; Normal	Normal
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	14	0	0%	0.903	0.126	0.208	0.102	0.926	0.268	0.158	0.448	0.183	>= 0.10	0.446	>= 0.10	0.434	Gamma; Lognormal; Normal	Normal
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.428	0.000	0.458	0.000	0.524	0.000	0.407	0.000	0.429	< 0.01	2.986	< 0.01	0.272	Nonparametric	Nonparametric
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	Nonparametric
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	14	0	0%	0.855	0.026	0.174	0.301	0.925	0.262	0.164	0.391	0.174	>= 0.10	0.474	>= 0.10	0.218	Gamma; Lognormal; Normal	Normal
13_2_4_117	MW-03	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	Nonparametric
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.441		Nonparametric
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	13	1	8%	0.906	0.191	0.188	0.282	0.965	0.846	0.135	0.788	0.158	>= 0.10	0.298	>= 0.10	0.350	Gamma; Lognormal; Normal	Normal
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	14	3	21%	0.945	0.586	0.167	0.535	0.831	0.024	0.237	0.084	0.209	>= 0.10	0.566	>= 0.10	0.337	Gamma; Lognormal; Normal	Normal
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
13_2_5_111	MW-03	Part 115	Copper	mg/L	14	6	43%	0.734	0.005	0.359	0.003	0.753	0.009	0.329	0.011	0.355	< 0.01	1.086	< 0.01	0.648	Nonparametric	Nonparametric
13_2_5_114	MW-03	Part 115	Iron	mg/L	14	0	0%	0.779	0.003	0.231	0.041	0.972	0.906	0.113	0.900	0.160	>= 0.10	0.374	>= 0.10	1.135	Gamma; Lognormal	Gamma
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	1	7%	0.407	0.000	0.447	0.000	0.695	0.000	0.280	0.006	0.358	< 0.01	2.258	< 0.01	0.736	Nonparametric	Nonparametric
13_2_5_123	MW-03	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	14	9	64%	0.900	0.410	0.213	0.638	0.906	0.445	0.226	0.546	0.249	>= 0.10	0.340	>= 0.10	0.263	Gamma; Lognormal; Normal	Nonparametric
13_2_5_129	MW-03	Part 115	Zinc	mg/L	14	8	57%	0.801	0.060	0.303	0.089	0.804	0.063	0.280	0.146	0.313	>= 0.10	0.691	0.05 <= p < 0.10	1.258	Gamma; Lognormal; Normal	Nonparametric
14_2_3_105	MW-04	Appendix III	Boron	mg/L	14	0	0%	0.961	0.736	0.127	0.785	0.970	0.879	0.111	0.913	0.115	>= 0.10	0.209	>= 0.10	0.086	Gamma; Lognormal; Normal	Normal
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	14	0	0%	0.966	0.826	0.203	0.123	0.975	0.932	0.187	0.204	0.194	>= 0.10	0.263	>= 0.10	0.090	Gamma; Lognormal; Normal	Normal
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.950	0.556	0.120	0.845	0.966	0.822	0.128	0.768	0.114	>= 0.10	0.242	>= 0.10	0.345	Gamma; Lognormal; Normal	Normal
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	14	0	0%	0.889	0.078	0.227	0.048	0.857	0.027	0.221	0.063	0.209	>= 0.10	0.833	0.01 <= p < 0.05	0.199	Gamma; Lognormal; Normal	Normal
14_2_3_120	MW-04	Appendix III	pH (field)	su	14	0	0%	0.890	0.082	0.154	0.486	0.895	0.096	0.156	0.472	0.163	>= 0.10	0.482	>= 0.10	0.016	Gamma; Lognormal; Normal	Normal
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.777	0.003	0.264	0.009	0.392	0.000	0.427	0.000	0.413	< 0.01	3.288	< 0.01	1.574	Nonparametric	Nonparametric
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.852	0.024	0.220	0.064	0.858	0.028	0.213	0.084	0.222	0.05 <= p < 0.10	0.805	0.01 <= p < 0.05	0.084	Gamma; Lognormal; Normal	Normal
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.736		Nonparametric
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	14	0	0%	0.709	0.000	0.317	0.000	0.910	0.158	0.218	0.071	0.244	0.01 <= p < 0.05	0.707	0.05 <= p < 0.10	0.430	Gamma; Lognormal	Gamma
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	14	0	0%	0.501	0.000	0.353	0.000	0.708	0.000	0.275	0.005	0.302	< 0.01	1.955	< 0.01	0.410	Nonparametric	Nonparametric
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.142		Nonparametric
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.880	0.058	0.195	0.157	0.862	0.032	0.197	0.150	0.206	>= 0.10	0.887	0.01 <= p < 0.05	0.300	Gamma; Lognormal; Normal	Normal
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	14	0	0%	0.906	0.136	0.252	0.016	0.955	0.647	0.198	0.144	0.225	0.05 <= p < 0.10	0.471	>= 0.10	0.463	Gamma; Lognormal; Normal	Normal
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.889	0.078	0.227	0.048	0.857	0.027	0.221	0.063	0.209	>= 0.10	0.833	0.01 <= p < 0.05	0.199	Gamma; Lognormal; Normal	Normal
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	14	0	0%	0.879	0.056	0.199	0.141	0.814	0.008	0.241	0.027	0.229	0.05 <= p < 0.10	0.772	0.01 <= p < 0.05	0.244	Gamma; Normal	Normal
14_2_4_117	MW-04	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	14	2	14%	0.935	0.431	0.148	0.666	0.925	0.330	0.163	0.509	0.155	>= 0.10	0.350	>= 0.10	0.585	Gamma; Lognormal; Normal	Normal
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	0.898	0.208	0.180	0.478	0.860	0.076	0.224	0.167	0.216	>= 0.10	0.598	>= 0.10	0.338	Gamma; Lognormal; Normal	Normal
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	14	5	36%	0.838	0.056	0.277	0.045	0.894	0.220	0.232	0.177	0.253	>= 0.10	0.575	>= 0.10	0.331	Gamma; Lognormal; Normal	Normal
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_5_111	MW-04	Part 115	Copper	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.120		Nonparametric
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0	0%	0.723	0.001	0.240	0.029	0.484	0.000	0.395	0.000	0.355	< 0.01	2.385	< 0.01	0.610	Nonparametric	Nonparametric
14_2_5_119	MW-04	Part 115	Nickel	mg/L	14	0	0%	0.915	0.189	0.174	0.299	0.675	0.000	0.261	0.011	0.204	>= 0.10	1.069	< 0.01	0.606	Gamma; Normal	Normal
14_2_5_123	MW-04	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.205		Nonparametric
14_2_5_129	MW-04	Part 115	Zinc	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.623		Nonparametric
16_1_3_105	MW-06	Appendix III	Boron	mg/L	14	0	0%	0.967	0.833	0.188	0.195	0.948	0.530	0.217	0.073	0.210	>= 0.10	0.360	>= 0.10	0.175	Gamma; Lognormal; Normal	Normal
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	14	0	0%	0.945	0.485	0.185	0.220	0.957	0.678	0.160	0.424	0.169	>= 0.10	0.295	>= 0.10	0.133	Gamma; Lognormal; Normal	Normal
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.949	0.541	0.185	0.220	0.897	0.102	0.258	0.012	0.215	0.05 <= p < 0.10	0.449	>= 0.10	0.698	Gamma; Lognormal; Normal	Normal
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	14	0	0%	0.883	0.064	0.230	0.043	0.905	0.134	0.216	0.075	0.227	0.05 <= p < 0.10	0.591	>= 0.10	0.151	Gamma; Lognormal; Normal	Normal
16_1_3_120	MW-06	Appendix III	pH (field)	su	14	0	0%	0.644	0.000	0.345	0.000	0.624	0.000	0.355	0.000	0.346	< 0.01	1.913	< 0.01	0.036	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	14	2	14%	0.937	0.458	0.187	0.290	0.890	0.118	0.214	0.135	0.162	>= 0.10	0.382	>= 0.10	1.075	Gamma; Lognormal; Normal	Gamma
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.057		Nonparametric
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.109		Nonparametric
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	14	0	0%	0.924	0.247	0.172	0.318	0.953	0.616	0.133	0.715	0.149	>= 0.10	0.346	>= 0.10	0.235	Gamma; Lognormal; Normal	Normal
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	14	0	0%	0.924	0.248	0.172	0.315	0.879	0.056	0.196	0.151	0.183	>= 0.10	0.545	>= 0.10	0.131	Gamma; Lognormal; Normal	Normal
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.864	0.034	0.253	0.015	0.912	0.168	0.210	0.096	0.229	0.05 <= p < 0.10	0.614	>= 0.10	0.311	Gamma; Lognormal	Gamma
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	14	0	0%	0.907	0.140	0.202	0.124	0.938	0.399	0.156	0.467	0.174	>= 0.10	0.458	>= 0.10	0.264	Gamma; Lognormal; Normal	Normal
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.883	0.064	0.230	0.043	0.905	0.134	0.216	0.075	0.227	0.05 <= p < 0.10	0.591	>= 0.10	0.151	Gamma; Lognormal; Normal	Normal
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	14	9	64%	0.986	0.963	0.172	0.896	0.961	0.816	0.223	0.566	0.220	>= 0.10	0.221	>= 0.10	0.413	Gamma; Lognormal; Normal	Nonparametric
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	14	0	0%	0.944	0.472	0.142	0.626	0.937	0.387	0.145	0.586	0.143	>= 0.10	0.327	>= 0.10	0.230	Gamma; Lognormal; Normal	Normal
16_1_4_117	MW-06	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	14	8	57%	0.773	0.033	0.354	0.018	0.800	0.058	0.341	0.028	0.363	0.01 <= p < 0.05	0.727	0.01 <= p < 0.05	0.332	Lognormal	Nonparametric
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	0.688	0.001	0.336	0.002	0.822	0.027	0.258	0.057	0.280	0.01 <= p < 0.05	0.867	0.01 <= p < 0.05	0.320	Lognormal	Lognormal
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	5	36%	0.645	0.000	0.352	0.002	0.726	0.003	0.316	0.010	0.334	< 0.01	1.213	< 0.01	0.287	Nonparametric	Nonparametric
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_111	MW-06	Part 115	Copper	mg/L	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.217		Nonparametric
16_1_5_114	MW-06	Part 115	Iron	mg/L	14	0	0%	0.940	0.419	0.227	0.049	0.831	0.012	0.205	0.115	0.182	>= 0.10	0.639	0.05 <= p < 0.10	0.450	Gamma; Lognormal; Normal	Normal
16_1_5_119	MW-06	Part 115	Nickel	mg/L	14	5	36%	0.956	0.755	0.166	0.677	0.962	0.819	0.152	0.791	0.165	>= 0.10	0.286	>= 0.10	0.129	Gamma; Lognormal; Normal	Normal
16_1_5_123	MW-06	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_129	MW-06	Part 115	Zinc	mg/L	14	2	14%	0.606	0.000	0.449	0.000	0.650	0.000	0.410	0.000	0.452	< 0.01	2.303	< 0.01	1.744	Nonparametric	Nonparametric
17_1_3_105	MW-07	Appendix III	Boron	mg/L	14	0	0%	0.869	0.040	0.293	0.002	0.875	0.049	0.282	0.003	0.290	< 0.01	0.921	0.01 <= p < 0.05	0.081	Nonparametric	Nonparametric
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	14	0	0%	0.923	0.241	0.180	0.253	0.917	0.199	0.187	0.201	0.194	>= 0.10	0.515	>= 0.10	0.087	Gamma; Lognormal; Normal	Normal
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.872	0.045	0.280	0.004	0.875	0.050	0.270	0.007	0.275	< 0.01	0.911	0.01 <= p < 0.05	0.061	Nonparametric	Nonparametric
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	14	3	21%	0.896	0.167	0.219	0.148	0.915	0.281	0.209	0.194	0.225	>= 0.10	0.492	>= 0.10	0.343	Gamma; Lognormal; Normal	Normal
17_1_3_120	MW-07	Appendix III	pH (field)	su	14	0	0%	0.876	0.051	0.230	0.042	0.871	0.043	0.235	0.035	0.228	0.05 <= p < 0.10	0.759	0.01 <= p < 0.05	0.019	Gamma; Normal	Normal
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.893	0.090	0.189	0.190	0.883	0.065	0.191	0.179	0.186	>= 0.10	0.676	0.05 <= p < 0.10	0.337	Gamma; Lognormal; Normal	Normal
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.836	0.014	0.233	0.039	0.799	0.005	0.262	0.010	0.249	0.01 <= p < 0.05	1.017	< 0.01	0.130	Nonparametric	Nonparametric
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	14	0	0%	0.934	0.342	0.176	0.280	0.895	0.096	0.184	0.224	0.161	>= 0.10	0.557	>= 0.10	0.184	Gamma; Lognormal; Normal	Normal
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	14	0	0%	0.910	0.157	0.234	0.036	0.873	0.046	0.258	0.012	0.246	0.01 <= p < 0.05	0.724	0.05 <= p < 0.10	0.118	Gamma; Normal	Normal
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.093		Nonparametric
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.661	0.000	0.253	0.015	0.794	0.004	0.178	0.264	0.199	>= 0.10	1.081	< 0.01	0.249	Gamma; Lognormal	Gamma
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	14	0	0%	0.953	0.611	0.177	0.277	0.944	0.476	0.182	0.240	0.191	>= 0.10	0.420	>= 0.10	0.126	Gamma; Lognormal; Normal	Normal
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	14	3	21%	0.896	0.167	0.219	0.148	0.915	0.281	0.209	0.194	0.225	>= 0.10	0.492	>= 0.10	0.343	Gamma; Lognormal; Normal	Normal
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	14	0	0%	0.916	0.194	0.214	0.082	0.938	0.398	0.207	0.107	0.188	>= 0.10	0.515	>= 0.10	0.279	Gamma; Lognormal; Normal	Normal
17_1_4_117	MW-07	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	2	15%	0.729	0.001	0.262	0.033	0.876	0.094	0.178	0.426	0.203	>= 0.10	0.641	0.05 <= p < 0.10	0.360	Gamma; Lognormal	Gamma
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	14	9	64%	0.902	0.423	0.233	0.500	0.942	0.678	0.195	0.766	0.222	>= 0.10	0.295	>= 0.10	0.339	Gamma; Lognormal; Normal	Nonparametric
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_111	MW-07	Part 115	Copper	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.488		Nonparametric
17_1_5_114	MW-07	Part 115	Iron	mg/L	14	0	0%	0.934	0.348	0.163	0.395	0.936	0.375	0.155	0.483	0.158	>= 0.10	0.357	>= 0.10	0.128	Gamma; Lognormal; Normal	Normal
17_1_5_119	MW-07	Part 115	Nickel	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_123	MW-07	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.130		Nonparametric
17_1_5_129	MW-07	Part 115	Zinc	mg/L	14	9	64%	0.910	0.468	0.244	0.420	0.871	0.271	0.317	0.101	0.325	>= 0.10	0.432	>= 0.10	1.249	Gamma; Lognormal; Normal	Nonparametric
18_1_3_105	MW-08	Appendix III	Boron	mg/L	14	0	0%	0.935	0.360	0.217	0.074	0.883	0.064	0.262	0.010	0.253	0.01 <= p < 0.05	0.699	0.05 <= p < 0.10	0.357	Gamma; Lognormal; Normal	Normal
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	14	0	0%	0.901	0.118	0.205	0.114	0.901	0.115	0.194	0.161	0.205	>= 0.10	0.640	0.05 <= p < 0.10	0.097	Gamma; Lognormal; Normal	Normal
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.582	0.000	0.329	0.000	0.815	0.008	0.253	0.015	0.287	< 0.01	1.299	< 0.01	0.424	Nonparametric	Nonparametric
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	14	0	0%	0.903	0.126	0.226	0.051	0.851	0.023	0.282	0.004	0.267	< 0.01	0.925	0.01 <= p < 0.05	0.354	Normal	Normal
18_1_3_120	MW-08	Appendix III	pH (field)	su	14	0	0%	0.686	0.000	0.317	0.000	0.661	0.000	0.327	0.000	0.321	< 0.01	1.685	< 0.01	0.045	Nonparametric	Nonparametric
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	14	4	29%	0.858	0.073	0.218	0.197	0.943	0.592	0.159	0.669	0.166	>= 0.10	0.282	>= 0.10	1.126	Gamma; Lognormal; Normal	Gamma
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.983	0.987	0.140	0.646	0.982	0.983	0.121	0.837	0.124	>= 0.10	0.176	>= 0.10	0.112	Gamma; Lognormal; Normal	Normal
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	14	6	43%	0.944	0.648	0.195	0.491	0.973	0.920	0.152	0.850	0.171	>= 0.10	0.211	>= 0.10	0.505	Gamma; Lognormal; Normal	Normal
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	14	0	0%	0.917	0.200	0.145	0.588	0.796	0.004	0.262	0.010	0.225	0.05 <= p < 0.10	0.846	0.01 <= p < 0.05	0.586	Gamma; Normal	Normal
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	14	0	0%	0.960	0.717	0.133	0.716	0.953	0.614	0.149	0.543	0.151	>= 0.10	0.318	>= 0.10	0.143	Gamma; Lognormal; Normal	Normal
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.859	0.029	0.168	0.353	0.922	0.233	0.153	0.504	0.163	>= 0.10	0.479	>= 0.10	0.260	Gamma; Lognormal; Normal	Normal
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	14	0	0%	0.847	0.020	0.202	0.125	0.886	0.072	0.213	0.084	0.220	0.05 <= p < 0.10	0.661	0.05 <= p < 0.10	0.336	Gamma; Lognormal; Normal	Normal
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.903	0.126	0.226	0.051	0.851	0.023	0.282	0.004	0.267	< 0.01	0.925	0.01 <= p < 0.05	0.354	Normal	Normal
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	14	9	64%	0.728	0.018	0.307	0.125	0.911	0.476	0.290	0.181	0.332	>= 0.10	0.476	>= 0.10	1.311	Gamma; Lognormal; Normal	Nonparametric
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	14	0	0%	0.949	0.549	0.164	0.389	0.936	0.372	0.199	0.140	0.192	>= 0.10	0.373	>= 0.10	0.244	Gamma; Lognormal; Normal	Normal
18_1_4_117	MW-08	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	14	0	0%	0.944	0.470	0.138	0.663	0.889	0.077	0.223	0.058	0.202	>= 0.10	0.522	>= 0.10	0.737	Gamma; Lognormal; Normal	Normal
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	0.944	0.595	0.196	0.336	0.988	0.993	0.130	0.905	0.149	>= 0.10	0.168	>= 0.10	0.373	Gamma; Lognormal; Normal	Normal
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	14	5	36%	0.758	0.007	0.294	0.024	0.827	0.042	0.236	0.158	0.259	0.05 <= p < 0.10	0.859	0.01 <= p < 0.05	0.378	Gamma; Lognormal	Gamma
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_5_111	MW-08	Part 115	Copper	mg/L	14	5	36%	0.933	0.510	0.209	0.308	0.977	0.948	0.139	0.883	0.155	>= 0.10	0.201	>= 0.10	0.422	Gamma; Lognormal; Normal	Normal
18_1_5_114	MW-08	Part 115	Iron	mg/L	14	0	0%	0.902	0.119	0.226	0.050	0.945	0.482	0.180	0.249	0.189	>= 0.10	0.408	>= 0.10	0.265	Gamma; Lognormal; Normal	Normal
18_1_5_119	MW-08	Part 115	Nickel	mg/L	14	0	0%	0.550	0.000	0.339	0.000	0.789	0.004	0.283	0.003	0.327	< 0.01	1.696	< 0.01	0.779	Nonparametric	Nonparametric
18_1_5_123	MW-08	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
18_1_5_129	MW-08	Part 115	Zinc	mg/L	14	3	21%	0.623	0.000	0.418	0.000	0.755	0.002	0.311	0.004	0.386	< 0.01	1.569	< 0.01	1.875	Nonparametric	Nonparametric
19_2_3_105	MW-09	Appendix III	Boron	mg/L	14	0	0%	0.969	0.861	0.102	0.958	0.970	0.879	0.115	0.885	0.114	>= 0.10	0.240	>= 0.10	0.095	Gamma; Lognormal; Normal	Normal
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	14	0	0%	0.955	0.643	0.145	0.584	0.948	0.526	0.182	0.238	0.174	>= 0.10	0.361	>= 0.10	0.235	Gamma; Lognormal; Normal	Normal
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.611	0.000	0.300	0.001	0.831	0.013	0.199	0.138	0.236	0.01 <= p < 0.05	1.080	< 0.01	0.486	Lognormal	Lognormal
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	14	0	0%	0.944	0.473	0.119	0.856	0.944	0.472	0.110	0.917	0.123	>= 0.10	0.292	>= 0.10	0.104	Gamma; Lognormal; Normal	Normal
19_2_3_120	MW-09	Appendix III	pH (field)	su	14	0	0%	0.904	0.127	0.228	0.046	0.908	0.146	0.225	0.053	0.227	0.05 <= p < 0.10	0.698	0.05 <= p < 0.10	0.017	Gamma; Lognormal; Normal	Normal
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.930	0.308	0.144	0.603	0.860	0.030	0.247	0.020	0.223	0.05 <= p < 0.10	0.687	0.05 <= p < 0.10	0.719	Gamma; Normal	Normal
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.953	0.608	0.159	0.439	0.907	0.144	0.187	0.202	0.175	>= 0.10	0.487	>= 0.10	0.261	Gamma; Lognormal; Normal	Normal
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	14	9	64%	0.868	0.257	0.277	0.233	0.937	0.645	0.219	0.600	0.260	>= 0.10	0.332	>= 0.10	0.671	Gamma; Lognormal; Normal	Nonparametric
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	14	0	0%	0.861	0.031	0.308	0.001	0.818	0.008	0.342	0.000	0.336	< 0.01	1.225	< 0.01	0.280	Nonparametric	Nonparametric
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0	0%	0.471	0.000	0.380	0.000	0.824	0.010	0.200	0.133	0.284	< 0.01	1.687	< 0.01	0.754	Lognormal	Lognormal
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.554		Nonparametric
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.927	0.273	0.150	0.537	0.928	0.283	0.179	0.257	0.176	>= 0.10	0.469	>= 0.10	0.230	Gamma; Lognormal; Normal	Normal
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	14	0	0%	0.946	0.503	0.105	0.943	0.944	0.479	0.138	0.667	0.136	>= 0.10	0.261	>= 0.10	0.466	Gamma; Lognormal; Normal	Normal
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.944	0.473	0.119	0.856	0.944	0.472	0.110	0.917	0.123	>= 0.10	0.292	>= 0.10	0.104	Gamma; Lognormal; Normal	Normal
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	14	0	0%	0.905	0.133	0.194	0.161	0.905	0.132	0.193	0.170	0.203	>= 0.10	0.560	>= 0.10	0.095	Gamma; Lognormal; Normal	Normal
19_2_4_117	MW-09	Appendix IV	Mercury	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.094		Nonparametric
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	14	0	0%	0.963	0.765	0.168	0.353	0.928	0.285	0.203	0.123	0.178	>= 0.10	0.383	>= 0.10	0.337	Gamma; Lognormal; Normal	Normal
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	13	12	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	2	14%	0.790	0.007	0.271	0.015	0.890	0.119	0.234	0.068	0.225	>= 0.10	0.779	0.01 <= p < 0.05	0.388	Gamma; Lognormal	Gamma
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_111	MW-09	Part 115	Copper	mg/L	14	9	64%	0.659	0.003	0.391	0.012	0.751	0.031	0.311	0.116	0.352	0.05 <= p < 0.10	0.807	0.01 <= p < 0.05	0.630	Gamma; Lognormal	Nonparametric
19_2_5_114	MW-09	Part 115	Iron	mg/L	14	0	0%	0.942	0.449	0.140	0.645	0.950	0.554	0.131	0.740	0.144	>= 0.10	0.339	>= 0.10	0.214	Gamma; Lognormal; Normal	Normal
19_2_5_119	MW-09	Part 115	Nickel	mg/L	14	0	0%	0.378	0.000	0.429	0.000	0.838	0.015	0.245	0.022	0.297	< 0.01	2.001	< 0.01	1.304	Nonparametric	Nonparametric
19_2_5_123	MW-09	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_129	MW-09	Part 115	Zinc	mg/L	14	8	57%	0.924	0.536	0.193	0.690	0.834	0.116	0.233	0.388	0.240	>= 0.10	0.468	>= 0.10	1.235	Gamma; Lognormal; Normal	Nonparametric
20_3_3_105	MW-10	Appendix III	Boron	mg/L	14	0	0%	0.931	0.320	0.161	0.421	0.915	0.183	0.173	0.309	0.176	>= 0.10	0.443	>= 0.10	0.577	Gamma; Lognormal; Normal	Normal
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	14	0	0%	0.891	0.085	0.186	0.209	0.959	0.704	0.175	0.291	0.186	>= 0.10	0.388	>= 0.10	0.373	Gamma; Lognormal; Normal	Normal
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.887	0.072	0.165	0.375	0.969	0.867	0.141	0.635	0.162	>= 0.10	0.307	>= 0.10	0.565	Gamma; Lognormal; Normal	Normal
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	14	0	0%	0.949	0.552	0.116	0.876	0.921	0.230	0.159	0.440	0.152	>= 0.10	0.343	>= 0.10	0.353	Gamma; Lognormal; Normal	Normal
20_3_3_120	MW-10	Appendix III	pH (field)	su	14	0	0%	0.902	0.121	0.223	0.056	0.915	0.185	0.213	0.083	0.215	0.05 <= p < 0.10	0.633	0.05 <= p < 0.10	0.051	Gamma; Lognormal; Normal	Normal
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.901	0.118	0.145	0.592	0.976	0.942	0.111	0.913	0.112	>= 0.10	0.186	>= 0.10	0.675	Gamma; Lognormal; Normal	Normal
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.826	0.011	0.329	0.000	0.870	0.042	0.301	0.001	0.315	< 0.01	1.009	< 0.01	0.229	Nonparametric	Nonparametric
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.542		Nonparametric
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	14	0	0%	0.862	0.032	0.200	0.135	0.984	0.993	0.107	0.932	0.148	>= 0.10	0.227	>= 0.10	0.647	Gamma; Lognormal; Normal	Normal
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	14	0	0%	0.914	0.179	0.185	0.220	0.980	0.976	0.123	0.822	0.133	>= 0.10	0.241	>= 0.10	0.385	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal				Lognormal				Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value			
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	14	7	50%	0.806	0.047	0.267	0.138	0.885	0.251	0.217	0.406	0.245	>= 0.10	0.513	>= 0.10	0.547	Gamma; Lognormal; Normal	Nonparametric
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.909	0.155	0.145	0.590	0.970	0.873	0.144	0.603	0.126	>= 0.10	0.239	>= 0.10	0.557	Gamma; Lognormal; Normal	Normal
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	1	7%	0.718	0.001	0.289	0.004	0.941	0.465	0.192	0.210	0.237	0.05 <= p < 0.10	0.641	0.05 <= p < 0.10	0.682	Gamma; Lognormal	Gamma
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.949	0.552	0.116	0.876	0.921	0.230	0.159	0.440	0.152	>= 0.10	0.343	>= 0.10	0.353	Gamma; Lognormal; Normal	Normal
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.246		Nonparametric
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	14	0	0%	0.916	0.194	0.197	0.146	0.938	0.389	0.161	0.420	0.161	>= 0.10	0.444	>= 0.10	0.279	Gamma; Lognormal; Normal	Normal
20_3_4_117	MW-10	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	14	0	0%	0.953	0.601	0.188	0.199	0.910	0.159	0.212	0.090	0.171	>= 0.10	0.386	>= 0.10	0.688	Gamma; Lognormal; Normal	Normal
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	13	10	77%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.259		Nonparametric
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	1	7%	0.731	0.001	0.252	0.023	0.889	0.094	0.173	0.354	0.194	>= 0.10	0.824	0.01 <= p < 0.05	0.335	Gamma; Lognormal	Gamma
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_5_111	MW-10	Part 115	Copper	mg/L	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.649		Nonparametric
20_3_5_114	MW-10	Part 115	Iron	mg/L	14	0	0%	0.927	0.277	0.179	0.258	0.930	0.304	0.167	0.363	0.168	>= 0.10	0.439	>= 0.10	0.344	Gamma; Lognormal; Normal	Normal
20_3_5_119	MW-10	Part 115	Nickel	mg/L	14	7	50%	0.721	0.006	0.370	0.004	0.786	0.030	0.358	0.007	0.375	< 0.01	0.883	0.01 <= p < 0.05	0.297	Nonparametric	Nonparametric
20_3_5_123	MW-10	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.194		Nonparametric
20_3_5_129	MW-10	Part 115	Zinc	mg/L	14	6	43%	0.702	0.002	0.345	0.006	0.772	0.014	0.248	0.158	0.297	0.05 <= p < 0.10	1.024	< 0.01	1.150	Gamma; Lognormal	Gamma
21_2_3_105	MW-11	Appendix III	Boron	mg/L	14	0	0%	0.924	0.250	0.154	0.491	0.965	0.800	0.138	0.663	0.130	>= 0.10	0.219	>= 0.10	0.653	Gamma; Lognormal; Normal	Normal
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	14	0	0%	0.972	0.905	0.111	0.913	0.922	0.232	0.168	0.348	0.147	>= 0.10	0.358	>= 0.10	0.310	Gamma; Lognormal; Normal	Normal
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.983	0.989	0.134	0.709	0.951	0.578	0.170	0.332	0.162	>= 0.10	0.238	>= 0.10	0.242	Gamma; Lognormal; Normal	Normal
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	14	0	0%	0.916	0.193	0.157	0.464	0.958	0.694	0.104	0.950	0.106	>= 0.10	0.222	>= 0.10	0.614	Gamma; Lognormal; Normal	Normal
21_2_3_120	MW-11	Appendix III	pH (field)	su	14	0	0%	0.957	0.670	0.159	0.442	0.954	0.630	0.161	0.415	0.161	>= 0.10	0.307	>= 0.10	0.015	Gamma; Lognormal; Normal	Normal
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	14	5	36%	0.762	0.008	0.279	0.042	0.944	0.622	0.174	0.600	0.241	>= 0.10	0.425	>= 0.10	1.536	Gamma; Lognormal	Gamma
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.835	0.014	0.228	0.047	0.918	0.207	0.186	0.208	0.192	>= 0.10	0.581	>= 0.10	0.220	Gamma; Lognormal	Gamma
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.875		Nonparametric
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0	0%	0.775	0.002	0.241	0.026	0.947	0.517	0.151	0.527	0.178	>= 0.10	0.529	>= 0.10	0.435	Gamma; Lognormal	Gamma
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	14	0	0%	0.904	0.128	0.235	0.035	0.968	0.842	0.186	0.211	0.206	>= 0.10	0.359	>= 0.10	0.314	Gamma; Lognormal; Normal	Normal
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.920		Nonparametric
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.073		Nonparametric
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.431	0.000	0.401	0.000	0.757	0.002	0.273	0.006	0.334	< 0.01	2.071	< 0.01	0.716	Nonparametric	Nonparametric
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0	0%	0.659	0.000	0.294	0.002	0.901	0.116	0.202	0.125	0.228	0.05 <= p < 0.10	0.873	0.01 <= p < 0.05	0.645	Gamma; Lognormal	Gamma
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.916	0.193	0.157	0.464	0.958	0.694	0.104	0.950	0.106	>= 0.10	0.222	>= 0.10	0.614	Gamma; Lognormal; Normal	Normal
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	14	3	21%	0.389	0.000	0.474	0.000	0.820	0.017	0.297	0.008	0.328	< 0.01	1.783	< 0.01	1.772	Nonparametric	Nonparametric
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	14	0	0%	0.863	0.034	0.174	0.296	0.961	0.742	0.118	0.858	0.085	>= 0.10	0.137	>= 0.10	1.020	Gamma; Lognormal; Normal	Gamma
21_2_4_117	MW-11	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14	2	14%	0.856	0.044	0.181	0.345	0.954	0.698	0.148	0.668	0.155	>= 0.10	0.350	>= 0.10	0.611	Gamma; Lognormal; Normal	Normal
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	0.924	0.423	0.190	0.458	0.954	0.731	0.169	0.643	0.190	>= 0.10	0.272	>= 0.10	0.359	Gamma; Lognormal; Normal	Normal
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	3	21%	0.703	0.001	0.321	0.002	0.851	0.044	0.255	0.043	0.288	0.01 <= p < 0.05	0.904	0.01 <= p < 0.05	0.493	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal				Lognormal				Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value			
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_2_5_111	MW-11	Part 115	Copper	mg/L	14	3	21%	0.426	0.000	0.424	0.000	0.791	0.007	0.267	0.027	0.348	< 0.01	1.726	< 0.01	1.357	Nonparametric	Nonparametric
21_2_5_114	MW-11	Part 115	Iron	mg/L	14	0	0%	0.956	0.656	0.121	0.834	0.942	0.438	0.153	0.504	0.151	>= 0.10	0.285	>= 0.10	0.368	Gamma; Lognormal; Normal	Normal
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0	0%	0.499	0.000	0.383	0.000	0.820	0.009	0.276	0.005	0.327	< 0.01	1.588	< 0.01	0.649	Nonparametric	Nonparametric
21_2_5_123	MW-11	Part 115	Silver	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.137		Nonparametric	
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.115		Nonparametric	
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	4	29%	0.770	0.006	0.219	0.191	0.915	0.316	0.250	0.077	0.213	>= 0.10	0.504	>= 0.10	1.366	Gamma; Lognormal; Normal	Gamma
22_2_3_105	MW-12	Appendix III	Boron	mg/L	14	0	0%	0.906	0.138	0.173	0.306	0.909	0.154	0.185	0.219	0.188	>= 0.10	0.543	>= 0.10	0.280	Gamma; Lognormal; Normal	Normal
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	14	0	0%	0.939	0.401	0.145	0.584	0.919	0.212	0.177	0.275	0.174	>= 0.10	0.410	>= 0.10	0.286	Gamma; Lognormal; Normal	Normal
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.898	0.104	0.265	0.009	0.924	0.250	0.227	0.049	0.244	0.01 <= p < 0.05	0.591	>= 0.10	0.245	Gamma; Lognormal; Normal	Normal
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	14	0	0%	0.884	0.067	0.209	0.100	0.915	0.189	0.160	0.430	0.181	>= 0.10	0.623	0.05 <= p < 0.10	0.329	Gamma; Lognormal; Normal	Normal
22_2_3_120	MW-12	Appendix III	pH (field)	su	14	0	0%	0.980	0.975	0.118	0.864	0.979	0.971	0.122	0.831	0.112	>= 0.10	0.203	>= 0.10	0.045	Gamma; Lognormal; Normal	Normal
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.942	0.440	0.169	0.340	0.949	0.546	0.154	0.486	0.136	>= 0.10	0.297	>= 0.10	0.367	Gamma; Lognormal; Normal	Normal
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.964	0.786	0.147	0.572	0.888	0.077	0.159	0.443	0.162	>= 0.10	0.421	>= 0.10	0.375	Gamma; Lognormal; Normal	Normal
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	14	0	0%	0.910	0.155	0.145	0.584	0.958	0.687	0.144	0.601	0.145	>= 0.10	0.283	>= 0.10	0.437	Gamma; Lognormal; Normal	Normal
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	14	0	0%	0.892	0.086	0.226	0.051	0.899	0.110	0.196	0.154	0.212	>= 0.10	0.666	0.05 <= p < 0.10	0.315	Gamma; Lognormal; Normal	Normal
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	14	0	0%	0.856	0.027	0.221	0.063	0.940	0.421	0.183	0.233	0.194	>= 0.10	0.516	>= 0.10	0.526	Gamma; Lognormal; Normal	Normal
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	14	0	0%	0.889	0.078	0.193	0.168	0.951	0.576	0.126	0.790	0.140	>= 0.10	0.357	>= 0.10	0.579	Gamma; Lognormal; Normal	Normal
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	14	5	36%	0.901	0.255	0.206	0.330	0.963	0.830	0.133	0.917	0.154	>= 0.10	0.272	>= 0.10	0.452	Gamma; Lognormal; Normal	Normal
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	14	5	36%	0.916	0.357	0.160	0.731	0.955	0.743	0.172	0.618	0.162	>= 0.10	0.248	>= 0.10	0.713	Gamma; Lognormal; Normal	Normal
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.884	0.067	0.209	0.100	0.915	0.189	0.160	0.430	0.181	>= 0.10	0.623	0.05 <= p < 0.10	0.329	Gamma; Lognormal; Normal	Normal
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	14	6	43%	0.839	0.073	0.281	0.062	0.862	0.126	0.220	0.304	0.251	>= 0.10	0.620	0.05 <= p < 0.10	0.488	Gamma; Lognormal; Normal	Normal
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	14	0	0%	0.936	0.374	0.157	0.465	0.938	0.388	0.145	0.587	0.160	>= 0.10	0.349	>= 0.10	0.402	Gamma; Lognormal; Normal	Normal
22_2_4_117	MW-12	Appendix IV	Mercury	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.257		Nonparametric	
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	14	0	0%	0.746	0.001	0.246	0.021	0.910	0.157	0.163	0.394	0.186	>= 0.10	0.598	>= 0.10	0.339	Gamma; Lognormal	Gamma
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	13	9	69%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.321		Nonparametric	
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	14	0	0%	0.847	0.020	0.173	0.306	0.949	0.546	0.145	0.592	0.111	>= 0.10	0.214	>= 0.10	1.097	Gamma; Lognormal; Normal	Gamma
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
22_2_5_111	MW-12	Part 115	Copper	mg/L	14	0	0%	0.792	0.004	0.206	0.110	0.964	0.784	0.127	0.778	0.138	>= 0.10	0.407	>= 0.10	0.442	Gamma; Lognormal; Normal	Normal
22_2_5_114	MW-12	Part 115	Iron	mg/L	14	6	43%	0.786	0.020	0.265	0.102	0.959	0.798	0.150	0.862	0.177	>= 0.10	0.347	>= 0.10	0.624	Gamma; Lognormal; Normal	Normal
22_2_5_119	MW-12	Part 115	Nickel	mg/L	14	0	0%	0.927	0.277	0.118	0.859	0.890	0.080	0.173	0.311	0.155	>= 0.10	0.487	>= 0.10	0.318	Gamma; Lognormal; Normal	Normal
22_2_5_123	MW-12	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	14	6	43%	0.890	0.232	0.207	0.396	0.943	0.644	0.190	0.537	0.210	>= 0.10	0.327	>= 0.10	0.356	Gamma; Lognormal; Normal	Normal
22_2_5_129	MW-12	Part 115	Zinc	mg/L	14	0	0%	0.919	0.211	0.152	0.514	0.931	0.319	0.208	0.104	0.177	>= 0.10	0.422	>= 0.10	0.458	Gamma; Lognormal; Normal	Normal
28_1_3_105	MW-18	Appendix III	Boron	mg/L	14	0	0%	0.906	0.136	0.177	0.274	0.925	0.262	0.158	0.448	0.173	>= 0.10	0.491	>= 0.10	0.304	Gamma; Lognormal; Normal	Normal
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	14	0	0%	0.957	0.668	0.193	0.170	0.933	0.336	0.228	0.048	0.210	>= 0.10	0.420	>= 0.10	0.185	Gamma; Lognormal; Normal	Normal
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.962	0.750	0.132	0.726	0.944	0.466	0.166	0.370	0.158	>= 0.10	0.333	>= 0.10	0.207	Gamma; Lognormal; Normal	Normal
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	14	0	0%	0.965	0.798	0.142	0.623	0.969	0.857	0.140	0.649	0.146	>= 0.10	0.276	>= 0.10	0.178	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
28_1_3_120	MW-18	Appendix III	pH (field)	su	14	0	0%	0.945	0.482	0.219	0.066	0.944	0.466	0.221	0.061	0.218	0.05 <= p < 0.10	0.463	>= 0.10	0.011	Gamma; Lognormal; Normal	Normal
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.899	0.109	0.267	0.008	0.929	0.293	0.221	0.061	0.238	0.01 <= p < 0.05	0.591	>= 0.10	0.256	Gamma; Lognormal; Normal	Normal
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.943	0.455	0.243	0.025	0.954	0.627	0.217	0.072	0.226	0.05 <= p < 0.10	0.411	>= 0.10	0.140	Gamma; Lognormal; Normal	Normal
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	14	3	21%	0.768	0.004	0.302	0.006	0.817	0.016	0.272	0.022	0.292	0.01 <= p < 0.05	1.039	< 0.01	0.389	Nonparametric	Nonparametric
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	14	0	0%	0.933	0.340	0.182	0.235	0.965	0.800	0.156	0.467	0.148	>= 0.10	0.328	>= 0.10	0.292	Gamma; Lognormal; Normal	Normal
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	14	0	0%	0.945	0.488	0.164	0.390	0.938	0.390	0.164	0.388	0.165	>= 0.10	0.415	>= 0.10	0.270	Gamma; Lognormal; Normal	Normal
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.076		Nonparametric
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	14	6	43%	0.938	0.594	0.159	0.796	0.962	0.830	0.165	0.754	0.153	>= 0.10	0.225	>= 0.10	0.534	Gamma; Lognormal; Normal	Normal
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	14	0	0%	0.817	0.008	0.291	0.002	0.906	0.137	0.239	0.029	0.265	0.01 <= p < 0.05	0.779	0.01 <= p < 0.05	0.462	Lognormal	Lognormal
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.965	0.798	0.142	0.623	0.969	0.857	0.140	0.649	0.146	>= 0.10	0.276	>= 0.10	0.178	Gamma; Lognormal; Normal	Normal
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	14	9	64%	0.643	0.002	0.412	0.006	0.685	0.007	0.381	0.017	0.405	0.01 <= p < 0.05	0.947	< 0.01	0.351	Nonparametric	Nonparametric
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	14	0	0%	0.904	0.127	0.209	0.101	0.896	0.097	0.216	0.076	0.219	0.05 <= p < 0.10	0.669	0.05 <= p < 0.10	0.248	Gamma; Lognormal; Normal	Normal
28_1_4_117	MW-18	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	14	0	0%	0.909	0.153	0.190	0.187	0.932	0.327	0.157	0.461	0.175	>= 0.10	0.480	>= 0.10	0.271	Gamma; Lognormal; Normal	Normal
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	0.825	0.128	0.299	0.148	0.916	0.505	0.233	0.497	0.252	>= 0.10	0.408	>= 0.10	0.383	Gamma; Lognormal; Normal	Nonparametric
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	14	0	0%	0.803	0.005	0.205	0.115	0.919	0.215	0.182	0.238	0.182	>= 0.10	0.519	>= 0.10	0.868	Gamma; Lognormal; Normal	Normal
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_5_111	MW-18	Part 115	Copper	mg/L	14	0	0%	0.692	0.000	0.325	0.000	0.824	0.010	0.230	0.043	0.268	0.01 <= p < 0.05	1.371	< 0.01	0.493	Nonparametric	Nonparametric
28_1_5_114	MW-18	Part 115	Iron	mg/L	14	0	0%	0.975	0.936	0.141	0.629	0.987	0.998	0.136	0.692	0.124	>= 0.10	0.156	>= 0.10	0.232	Gamma; Lognormal; Normal	Normal
28_1_5_119	MW-18	Part 115	Nickel	mg/L	14	0	0%	0.835	0.014	0.262	0.010	0.897	0.102	0.216	0.077	0.236	0.01 <= p < 0.05	0.823	0.01 <= p < 0.05	0.337	Lognormal	Lognormal
28_1_5_123	MW-18	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_5_129	MW-18	Part 115	Zinc	mg/L	14	0	0%	0.978	0.963	0.154	0.488	0.968	0.845	0.129	0.760	0.104	>= 0.10	0.156	>= 0.10	0.434	Gamma; Lognormal; Normal	Normal
29_1_3_105	MW-19	Appendix III	Boron	mg/L	14	0	0%	0.931	0.314	0.122	0.824	0.930	0.301	0.110	0.920	0.115	>= 0.10	0.348	>= 0.10	0.194	Gamma; Lognormal; Normal	Normal
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	14	0	0%	0.959	0.701	0.131	0.737	0.932	0.321	0.152	0.515	0.144	>= 0.10	0.361	>= 0.10	0.111	Gamma; Lognormal; Normal	Normal
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.916	0.192	0.206	0.110	0.958	0.690	0.148	0.551	0.170	>= 0.10	0.411	>= 0.10	0.328	Gamma; Lognormal; Normal	Normal
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	14	0	0%	0.969	0.867	0.113	0.897	0.964	0.785	0.139	0.657	0.133	>= 0.10	0.230	>= 0.10	0.149	Gamma; Lognormal; Normal	Normal
29_1_3_120	MW-19	Appendix III	pH (field)	su	14	0	0%	0.890	0.080	0.170	0.330	0.879	0.056	0.175	0.293	0.174	>= 0.10	0.552	>= 0.10	0.025	Gamma; Lognormal; Normal	Normal
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.967	0.831	0.112	0.904	0.939	0.411	0.127	0.783	0.130	>= 0.10	0.258	>= 0.10	0.210	Gamma; Lognormal; Normal	Normal
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.874	0.048	0.204	0.118	0.877	0.053	0.199	0.139	0.208	>= 0.10	0.657	0.05 <= p < 0.10	0.125	Gamma; Lognormal; Normal	Normal
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.317		Nonparametric
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	14	0	0%	0.919	0.216	0.146	0.582	0.898	0.105	0.188	0.200	0.177	>= 0.10	0.550	>= 0.10	0.338	Gamma; Lognormal; Normal	Normal
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	14	0	0%	0.950	0.558	0.173	0.305	0.961	0.739	0.152	0.509	0.162	>= 0.10	0.363	>= 0.10	0.139	Gamma; Lognormal; Normal	Normal
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	14	3	21%	0.910	0.243	0.154	0.663	0.939	0.507	0.141	0.782	0.152	>= 0.10	0.330	>= 0.10	0.203	Gamma; Lognormal; Normal	Normal
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	14	5	36%	0.811	0.027	0.264	0.071	0.901	0.261	0.210	0.303	0.226	>= 0.10	0.602	>= 0.10	0.274	Gamma; Lognormal; Normal	Normal
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	14	1	7%	0.945	0.528	0.182	0.280	0.950	0.598	0.200	0.164	0.160	>= 0.10	0.260	>= 0.10	0.631	Gamma; Lognormal; Normal	Normal
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.969	0.867	0.113	0.897	0.964	0.785	0.139	0.657	0.133	>= 0.10	0.230	>= 0.10	0.149	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	14	0	0%	0.941	0.428	0.189	0.193	0.942	0.439	0.166	0.368	0.175	>= 0.10	0.371	>= 0.10	0.123	Gamma; Lognormal; Normal	Normal
29_1_4_117	MW-19	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	14	0	0%	0.944	0.467	0.180	0.251	0.900	0.113	0.195	0.160	0.165	>= 0.10	0.515	>= 0.10	0.399	Gamma; Lognormal; Normal	Normal
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	13	5	38%	0.900	0.291	0.208	0.391	0.876	0.173	0.251	0.144	0.245	>= 0.10	0.509	>= 0.10	0.323	Gamma; Lognormal; Normal	Normal
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.245		Nonparametric	
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
29_1_5_111	MW-19	Part 115	Copper	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.328		Nonparametric	
29_1_5_114	MW-19	Part 115	Iron	mg/L	14	0	0%	0.956	0.661	0.143	0.613	0.969	0.869	0.105	0.944	0.117	>= 0.10	0.232	>= 0.10	0.203	Gamma; Lognormal; Normal	Normal
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	1	7%	0.481	0.000	0.385	0.000	0.805	0.008	0.231	0.057	0.306	< 0.01	1.509	< 0.01	0.718	Lognormal	Lognormal
29_1_5_123	MW-19	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
29_1_5_129	MW-19	Part 115	Zinc	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.438		Nonparametric	
30_1_3_105	MW-20	Appendix III	Boron	mg/L	14	0	0%	0.887	0.074	0.227	0.048	0.901	0.116	0.238	0.031	0.241	0.01 <= p < 0.05	0.769	0.01 <= p < 0.05	0.182	Lognormal; Normal	Normal
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	14	0	0%	0.847	0.020	0.229	0.044	0.734	0.001	0.278	0.005	0.261	0.01 <= p < 0.05	1.229	< 0.01	0.238	Nonparametric	Nonparametric
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.945	0.487	0.184	0.221	0.880	0.059	0.246	0.021	0.224	0.05 <= p < 0.10	0.629	0.05 <= p < 0.10	0.311	Gamma; Lognormal; Normal	Normal
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0	0%	0.688	0.000	0.291	0.002	0.819	0.009	0.254	0.014	0.241	0.01 <= p < 0.05	1.273	< 0.01	0.314	Nonparametric	Nonparametric
30_1_3_120	MW-20	Appendix III	pH (field)	su	14	0	0%	0.925	0.256	0.223	0.058	0.924	0.249	0.222	0.059	0.232	0.01 <= p < 0.05	0.522	>= 0.10	0.015	Gamma; Lognormal; Normal	Normal
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.915	0.189	0.183	0.228	0.931	0.316	0.185	0.214	0.179	>= 0.10	0.404	>= 0.10	0.641	Gamma; Lognormal; Normal	Normal
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.954	0.618	0.182	0.241	0.958	0.685	0.203	0.121	0.193	>= 0.10	0.399	>= 0.10	0.131	Gamma; Lognormal; Normal	Normal
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	14	4	29%	0.956	0.740	0.156	0.696	0.932	0.467	0.186	0.418	0.171	>= 0.10	0.331	>= 0.10	0.363	Gamma; Lognormal; Normal	Normal
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	14	0	0%	0.947	0.515	0.176	0.281	0.951	0.582	0.149	0.542	0.165	>= 0.10	0.368	>= 0.10	0.199	Gamma; Lognormal; Normal	Normal
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	14	0	0%	0.810	0.007	0.271	0.006	0.904	0.129	0.222	0.061	0.241	0.01 <= p < 0.05	0.836	0.01 <= p < 0.05	0.292	Lognormal	Lognormal
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	14	6	43%	0.927	0.492	0.260	0.116	0.944	0.655	0.243	0.176	0.254	>= 0.10	0.342	>= 0.10	0.138	Gamma; Lognormal; Normal	Normal
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	14	0	0%	0.963	0.770	0.154	0.495	0.946	0.503	0.178	0.270	0.177	>= 0.10	0.290	>= 0.10	0.236	Gamma; Lognormal; Normal	Normal
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.688	0.000	0.291	0.002	0.819	0.009	0.254	0.014	0.241	0.01 <= p < 0.05	1.273	< 0.01	0.314	Nonparametric	Nonparametric
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	14	0	0%	0.913	0.175	0.194	0.165	0.942	0.445	0.158	0.451	0.174	>= 0.10	0.425	>= 0.10	0.241	Gamma; Lognormal; Normal	Normal
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	14	0	0%	0.963	0.771	0.114	0.890	0.896	0.100	0.173	0.306	0.149	>= 0.10	0.434	>= 0.10	0.294	Gamma; Lognormal; Normal	Normal
30_1_4_117	MW-20	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	14	0	0%	0.974	0.928	0.133	0.720	0.972	0.906	0.155	0.480	0.153	>= 0.10	0.260	>= 0.10	0.158	Gamma; Lognormal; Normal	Normal
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	0.874	0.243	0.234	0.382	0.920	0.504	0.229	0.418	0.251	>= 0.10	0.363	>= 0.10	0.394	Gamma; Lognormal; Normal	Nonparametric
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	14	8	57%	0.675	0.003	0.400	0.003	0.757	0.023	0.352	0.019	0.375	0.01 <= p < 0.05	0.870	0.01 <= p < 0.05	0.347	Nonparametric	Nonparametric
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
30_1_5_111	MW-20	Part 115	Copper	mg/L	14	2	14%	0.817	0.015	0.212	0.141	0.907	0.198	0.143	0.714	0.169	>= 0.10	0.528	>= 0.10	0.397	Gamma; Lognormal; Normal	Normal
30_1_5_114	MW-20	Part 115	Iron	mg/L	14	0	0%	0.947	0.515	0.167	0.359	0.935	0.358	0.192	0.177	0.180	>= 0.10	0.364	>= 0.10	0.131	Gamma; Lognormal; Normal	Normal
30_1_5_119	MW-20	Part 115	Nickel	mg/L	14	0	0%	0.901	0.118	0.231	0.042	0.860	0.030	0.229	0.045	0.238	0.01 <= p < 0.05	0.670	0.05 <= p < 0.10	0.227	Gamma; Normal	Normal
30_1_5_123	MW-20	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
30_1_5_129	MW-20	Part 115	Zinc	mg/L	14	0	0%	0.782	0.003	0.335	0.000	0.891	0.083	0.251	0.017	0.283	< 0.01	0.982	0.01 <= p < 0.05	0.466	Lognormal	Lognormal
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0	0%	0.714	0.001	0.273	0.006	0.831	0.012	0.242	0.025	0.256	0.01 <= p < 0.05	1.066	< 0.01	0.208	Nonparametric	Nonparametric
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0	0%	0.627	0.000	0.363	0.000	0.716	0.001	0.313	0.001	0.331	< 0.01	1.855	< 0.01	0.239	Nonparametric	Nonparametric
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.510	0.000	0.414	0.000	0.787	0.003	0.277	0.005	0.346	< 0.01	1.707	< 0.01	0.718	Nonparametric	Nonparametric
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	14	0	0%	0.855	0.026	0.247	0.020	0.759	0.002	0.276	0.005	0.270	< 0.01	1.123	< 0.01	0.208	Nonparametric	Nonparametric
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0	0%	0.791	0.004	0.223	0.056	0.778	0.003	0.230	0.043	0.225	0.05 <= p < 0.10	1.089	< 0.01	0.029	Gamma; Normal	Normal
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.810	0.007	0.204	0.116	0.737	0.001	0.250	0.017	0.233	0.01 <= p < 0.05	1.242	< 0.01	0.227	Normal	Normal
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.672	0.000	0.324	0.000	0.770	0.002	0.293	0.002	0.306	< 0.01	1.466	< 0.01	0.186	Nonparametric	Nonparametric
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.343		Nonparametric	
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	2	14%	0.720	0.001	0.273	0.014	0.974	0.946	0.147	0.670	0.171	>= 0.10	0.406	>= 0.10	0.742	Gamma; Lognormal	Gamma
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	14	0	0%	0.885	0.068	0.172	0.317	0.914	0.182	0.132	0.731	0.152	>= 0.10	0.517	>= 0.10	0.317	Gamma; Lognormal; Normal	Normal
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.516		Nonparametric	
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.952	0.594	0.167	0.358	0.913	0.176	0.161	0.421	0.169	>= 0.10	0.409	>= 0.10	0.444	Gamma; Lognormal; Normal	Normal
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	14	0	0%	0.360	0.000	0.433	0.000	0.760	0.002	0.267	0.008	0.368	< 0.01	2.544	< 0.01	1.173	Nonparametric	Nonparametric
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.855	0.026	0.247	0.020	0.759	0.002	0.276	0.005	0.270	< 0.01	1.123	< 0.01	0.208	Nonparametric	Nonparametric
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	14	0	0%	0.654	0.000	0.261	0.010	0.781	0.003	0.223	0.058	0.239	0.01 <= p < 0.05	1.267	< 0.01	0.245	Lognormal	Lognormal
40_1_4_117	MW-30	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	14	3	21%	0.471	0.000	0.397	0.000	0.863	0.063	0.204	0.225	0.311	0.01 <= p < 0.05	1.394	< 0.01	1.113	Lognormal	Nonparametric
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	0.876	0.249	0.282	0.140	0.909	0.432	0.244	0.320	0.266	>= 0.10	0.423	>= 0.10	0.282	Gamma; Lognormal; Normal	Nonparametric
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	14	7	50%	0.791	0.034	0.256	0.180	0.887	0.258	0.237	0.275	0.260	>= 0.10	0.521	>= 0.10	0.491	Gamma; Lognormal; Normal	Nonparametric
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
40_1_5_111	MW-30	Part 115	Copper	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.356		Nonparametric	
40_1_5_114	MW-30	Part 115	Iron	mg/L	14	0	0%	0.879	0.057	0.206	0.111	0.982	0.986	0.113	0.895	0.134	>= 0.10	0.175	>= 0.10	0.652	Gamma; Lognormal; Normal	Normal
40_1_5_119	MW-30	Part 115	Nickel	mg/L	14	3	21%	0.376	0.000	0.499	0.000	0.736	0.001	0.281	0.015	0.412	< 0.01	2.290	< 0.01	1.377	Nonparametric	Nonparametric
40_1_5_123	MW-30	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
40_1_5_129	MW-30	Part 115	Zinc	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.574		Nonparametric	
41_1_3_105	MW-31	Appendix III	Boron	mg/L	14	0	0%	0.973	0.911	0.151	0.518	0.977	0.950	0.127	0.779	0.138	>= 0.10	0.200	>= 0.10	0.138	Gamma; Lognormal; Normal	Normal
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	14	0	0%	0.943	0.455	0.186	0.212	0.939	0.409	0.193	0.170	0.187	>= 0.10	0.427	>= 0.10	0.120	Gamma; Lognormal; Normal	Normal
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.937	0.382	0.215	0.078	0.940	0.416	0.219	0.068	0.227	0.05 <= p < 0.10	0.538	>= 0.10	0.089	Gamma; Lognormal; Normal	Normal
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	14	0	0%	0.924	0.254	0.234	0.036	0.921	0.231	0.223	0.058	0.227	0.05 <= p < 0.10	0.567	>= 0.10	0.061	Gamma; Lognormal; Normal	Normal
41_1_3_120	MW-31	Appendix III	pH (field)	su	14	0	0%	0.927	0.280	0.166	0.368	0.930	0.301	0.164	0.392	0.162	>= 0.10	0.435	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.938	0.399	0.136	0.691	0.926	0.269	0.144	0.601	0.119	>= 0.10	0.306	>= 0.10	0.526	Gamma; Lognormal; Normal	Normal
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.923	0.243	0.158	0.453	0.935	0.358	0.143	0.611	0.146	>= 0.10	0.353	>= 0.10	0.073	Gamma; Lognormal; Normal	Normal
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	14	6	43%	0.795	0.025	0.328	0.011	0.887	0.221	0.273	0.081	0.312	0.01 <= p < 0.05	0.622	0.05 <= p < 0.10	0.843	Gamma; Lognormal	Gamma
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	14	0	0%	0.903	0.123	0.249	0.018	0.931	0.311	0.222	0.060	0.235	0.01 <= p < 0.05	0.541	>= 0.10	0.190	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	14	0	0%	0.896	0.100	0.177	0.271	0.943	0.455	0.141	0.629	0.158	>= 0.10	0.372	>= 0.10	0.257	Gamma; Lognormal; Normal	Normal
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.407		Nonparametric
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.831	0.012	0.195	0.159	0.918	0.205	0.142	0.627	0.155	>= 0.10	0.507	>= 0.10	0.233	Gamma; Lognormal; Normal	Normal
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	14	2	14%	0.871	0.068	0.224	0.099	0.960	0.780	0.167	0.474	0.188	>= 0.10	0.412	>= 0.10	0.336	Gamma; Lognormal; Normal	Normal
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.924	0.254	0.234	0.036	0.921	0.231	0.223	0.058	0.227	0.05 <= p < 0.10	0.567	>= 0.10	0.061	Gamma; Lognormal; Normal	Normal
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.152		Nonparametric
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	14	0	0%	0.947	0.509	0.190	0.185	0.932	0.329	0.208	0.102	0.209	>= 0.10	0.463	>= 0.10	0.136	Gamma; Lognormal; Normal	Normal
41_1_4_117	MW-31	Appendix IV	Mercury	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	14	0	0%	0.919	0.214	0.223	0.058	0.903	0.126	0.271	0.006	0.247	0.01 <= p < 0.05	0.607	>= 0.10	0.330	Gamma; Lognormal; Normal	Normal
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	0.810	0.026	0.274	0.050	0.874	0.135	0.215	0.269	0.234	>= 0.10	0.665	0.05 <= p < 0.10	0.311	Gamma; Lognormal	Gamma
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	14	6	43%	0.509	0.000	0.460	0.000	0.660	0.001	0.374	0.002	0.422	< 0.01	1.566	< 0.01	0.639	Nonparametric	Nonparametric
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_5_111	MW-31	Part 115	Copper	mg/L	14	9	64%	0.881	0.313	0.290	0.181	0.936	0.636	0.249	0.388	0.259	>= 0.10	0.345	>= 0.10	0.240	Gamma; Lognormal; Normal	Nonparametric
41_1_5_114	MW-31	Part 115	Iron	mg/L	14	0	0%	0.837	0.015	0.269	0.007	0.875	0.050	0.242	0.025	0.270	0.01 <= p < 0.05	0.804	0.01 <= p < 0.05	1.080	Nonparametric	Nonparametric
41_1_5_119	MW-31	Part 115	Nickel	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.144		Nonparametric
41_1_5_123	MW-31	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.184		Nonparametric
41_1_5_129	MW-31	Part 115	Zinc	mg/L	14	9	64%	0.881	0.316	0.271	0.266	0.719	0.015	0.380	0.017	0.362	0.01 <= p < 0.05	0.726	0.01 <= p < 0.05	0.901	Normal	Nonparametric
42_1_3_105	MW-32	Appendix III	Boron	mg/L	14	0	0%	0.830	0.012	0.271	0.006	0.878	0.054	0.265	0.009	0.274	< 0.01	0.888	0.01 <= p < 0.05	0.221	Lognormal	Lognormal
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	14	0	0%	0.953	0.609	0.171	0.328	0.947	0.513	0.193	0.168	0.191	>= 0.10	0.453	>= 0.10	0.151	Gamma; Lognormal; Normal	Normal
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.880	0.057	0.212	0.089	0.881	0.059	0.206	0.110	0.220	0.05 <= p < 0.10	0.689	0.05 <= p < 0.10	0.099	Gamma; Lognormal; Normal	Normal
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	14	0	0%	0.920	0.220	0.208	0.101	0.929	0.299	0.189	0.191	0.198	>= 0.10	0.581	>= 0.10	0.112	Gamma; Lognormal; Normal	Normal
42_1_3_120	MW-32	Appendix III	pH (field)	su	14	0	0%	0.958	0.691	0.140	0.642	0.958	0.694	0.141	0.637	0.149	>= 0.10	0.292	>= 0.10	0.010	Gamma; Lognormal; Normal	Normal
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.918	0.207	0.154	0.492	0.915	0.186	0.173	0.308	0.146	>= 0.10	0.372	>= 0.10	1.132	Gamma; Lognormal; Normal	Gamma
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.909	0.151	0.178	0.265	0.906	0.139	0.176	0.281	0.189	>= 0.10	0.515	>= 0.10	0.135	Gamma; Lognormal; Normal	Normal
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.090		Nonparametric
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0	0%	0.441	0.000	0.448	0.000	0.635	0.000	0.347	0.000	0.392	< 0.01	2.391	< 0.01	0.434	Nonparametric	Nonparametric
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	14	0	0%	0.940	0.423	0.210	0.094	0.846	0.020	0.181	0.244	0.149	>= 0.10	0.415	>= 0.10	0.731	Gamma; Lognormal; Normal	Normal
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.431	0.000	0.404	0.000	0.674	0.000	0.233	0.038	0.303	< 0.01	2.232	< 0.01	0.583	Nonparametric	Nonparametric
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0	0%	0.590	0.000	0.294	0.002	0.870	0.042	0.181	0.242	0.216	0.05 <= p < 0.10	1.077	< 0.01	0.541	Gamma; Lognormal	Gamma
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.920	0.220	0.208	0.101	0.929	0.299	0.189	0.191	0.198	>= 0.10	0.581	>= 0.10	0.112	Gamma; Lognormal; Normal	Normal
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.654		Nonparametric
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	14	0	0%	0.882	0.061	0.167	0.361	0.927	0.274	0.129	0.758	0.132	>= 0.10	0.447	>= 0.10	0.235	Gamma; Lognormal; Normal	Normal
42_1_4_117	MW-32	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0	0%	0.886	0.070	0.205	0.116	0.948	0.531	0.162	0.413	0.168	>= 0.10	0.439	>= 0.10	0.252	Gamma; Lognormal; Normal	Normal
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	0.878	0.302	0.244	0.422	0.860	0.227	0.266	0.292	0.276	>= 0.10	0.475	>= 0.10	0.222	Gamma; Lognormal; Normal	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal				Lognormal				Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value			
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.157		Nonparametric	
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		Nonparametric	
42_1_5_111	MW-32	Part 115	Copper	mg/L	14	8	57%	0.508	0.000	0.485	0.000	0.650	0.002	0.410	0.002	0.483	< 0.01	1.395	< 0.01	1.659	Nonparametric	Nonparametric
42_1_5_114	MW-32	Part 115	Iron	mg/L	14	0	0%	0.927	0.275	0.174	0.296	0.906	0.140	0.192	0.175	0.193	>= 0.10	0.519	>= 0.10	0.203	Gamma; Lognormal; Normal	Normal
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0	0%	0.333	0.000	0.496	0.000	0.550	0.000	0.342	0.000	0.437	< 0.01	3.544	< 0.01	0.868	Nonparametric	Nonparametric
42_1_5_123	MW-32	Part 115	Silver	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		Nonparametric	
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		Nonparametric	
42_1_5_129	MW-32	Part 115	Zinc	mg/L	14	0	0%	0.649	0.000	0.395	0.000	0.737	0.001	0.300	0.001	0.355	< 0.01	1.989	< 0.01	1.307	Nonparametric	Nonparametric

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 4: Autocorrelation Tests, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	14	0	0%	0.227	0.346	
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	14	0	0%	0.207	0.391	
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.076	0.754	
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	14	0	0%	0.339	0.160	
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0	0%	-0.106	0.660	
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.225	0.351	
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.012	0.962	
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	3	21%	0.377	0.154	
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0	0%	-0.072	0.765	
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	14	0	0%	0.404	0.093	
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14	2	14%	0.421	0.100	
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	14	11	79%	-0.267	0.464	
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.129	0.594	
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	14	0	0%	-0.273	0.257	
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.339	0.160	
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	2	14%	-0.080	0.756	
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	14	0	0%	0.223	0.355	
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	1	7%	0.023	0.927	
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	-0.747	0.021	*
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0	0%	-0.155	0.521	
11_2_5_111	MW-01R	Part 115	Copper	mg/L	14	5	36%	-0.291	0.306	
11_2_5_114	MW-01R	Part 115	Iron	mg/L	14	0	0%	0.311	0.197	
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0	0%	-0.142	0.555	
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14	2	14%	0.229	0.371	
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	14	3	21%	0.347	0.190	
12_2_3_105	MW-02	Appendix III	Boron	mg/L	14	0	0%	0.186	0.439	
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	14	0	0%	-0.062	0.798	
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.037	0.879	
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0	0%	0.135	0.576	
12_2_3_120	MW-02	Appendix III	pH (field)	su	14	0	0%	0.043	0.857	
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	14	9	64%	-0.513	0.129	
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.232	0.334	
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	3	21%	-0.047	0.858	
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0	0%	0.190	0.431	
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	14	0	0%	0.214	0.375	
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	14	1	7%	0.273	0.270	
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	14	10	71%	-0.375	0.288	
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.067	0.780	
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	14	0	0%	-0.002	0.992	
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.135	0.576	
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	14	1	7%	-0.195	0.432	
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	14	0	0%	-0.096	0.692	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	14	0	0%	0.186	0.441	
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	0.135	0.635	
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0	0%	0.028	0.909	
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	
12_2_5_111	MW-02	Part 115	Copper	mg/L	14	0	0%	-0.262	0.278	
12_2_5_114	MW-02	Part 115	Iron	mg/L	14	0	0%	0.208	0.389	
12_2_5_119	MW-02	Part 115	Nickel	mg/L	14	0	0%	0.061	0.801	
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	14	1	7%	0.291	0.241	
12_2_5_129	MW-02	Part 115	Zinc	mg/L	14	0	0%	0.133	0.580	
13_2_3_105	MW-03	Appendix III	Boron	mg/L	14	0	0%	-0.346	0.151	
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	14	0	0%	0.029	0.903	
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.419	0.082	
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	14	0	0%	0.007	0.978	
13_2_3_120	MW-03	Appendix III	pH (field)	su	14	0	0%	-0.190	0.431	
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.429	0.075	
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.437	0.069	
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	14	8	57%	-0.085	0.792	
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	14	0	0%	0.147	0.542	
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	14	0	0%	-0.375	0.119	
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	14	9	64%	-0.764	0.024	*
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	14	13	93%	NA	NA	
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.004	0.988	
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	14	0	0%	-0.200	0.406	
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.007	0.978	
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	14	13	93%	NA	NA	
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	14	0	0%	0.274	0.256	
13_2_4_117	MW-03	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	14	10	71%	-0.385	0.276	
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	13	1	8%	-0.311	0.224	
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	14	3	21%	0.173	0.513	
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	
13_2_5_111	MW-03	Part 115	Copper	mg/L	14	6	43%	-0.494	0.095	
13_2_5_114	MW-03	Part 115	Iron	mg/L	14	0	0%	0.618	0.010	*
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	1	7%	-0.042	0.866	
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	14	9	64%	-0.119	0.726	
13_2_5_129	MW-03	Part 115	Zinc	mg/L	14	8	57%	0.285	0.377	
14_2_3_105	MW-04	Appendix III	Boron	mg/L	14	0	0%	0.089	0.712	
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	14	0	0%	-0.106	0.659	
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.608	0.012	*
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	14	0	0%	0.169	0.482	
14_2_3_120	MW-04	Appendix III	pH (field)	su	14	0	0%	0.099	0.680	
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.423	0.079	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.087	0.718	
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	14	10	71%	-0.535	0.130	
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	14	0	0%	-0.029	0.904	
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	14	0	0%	-0.059	0.806	
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	14	12	86%	-0.500	0.157	
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.005	0.983	
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	14	0	0%	0.272	0.259	
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.169	0.482	
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	14	0	0%	-0.156	0.518	
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	14	2	14%	0.267	0.298	
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	0.355	0.194	
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	14	5	36%	-0.320	0.260	
14_2_5_111	MW-04	Part 115	Copper	mg/L	14	12	86%	-0.500	0.157	
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0	0%	0.171	0.479	
14_2_5_119	MW-04	Part 115	Nickel	mg/L	14	0	0%	0.050	0.834	
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	14	10	71%	-0.305	0.389	
14_2_5_129	MW-04	Part 115	Zinc	mg/L	14	10	71%	-0.604	0.088	
16_1_3_105	MW-06	Appendix III	Boron	mg/L	14	0	0%	0.229	0.343	
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	14	0	0%	0.220	0.362	
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.605	0.012	*
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	14	0	0%	0.018	0.940	
16_1_3_120	MW-06	Appendix III	pH (field)	su	14	0	0%	0.019	0.935	
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	14	2	14%	-0.098	0.702	
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.167	0.489	
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	14	12	86%	-0.500	0.157	
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	14	0	0%	0.185	0.442	
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	14	0	0%	0.190	0.430	
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	14	13	93%	NA	NA	
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.299	0.215	
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	14	0	0%	0.450	0.062	
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.018	0.940	
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	14	9	64%	0.145	0.668	
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	14	0	0%	0.501	0.037	*
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	14	8	57%	0.402	0.213	
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	-0.202	0.461	
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	5	36%	-0.176	0.535	
16_1_5_111	MW-06	Part 115	Copper	mg/L	14	11	79%	-0.634	0.082	
16_1_5_114	MW-06	Part 115	Iron	mg/L	14	0	0%	0.344	0.153	
16_1_5_119	MW-06	Part 115	Nickel	mg/L	14	5	36%	0.370	0.193	
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	14	13	93%	NA	NA	
16_1_5_129	MW-06	Part 115	Zinc	mg/L	14	2	14%	-0.249	0.331	
17_1_3_105	MW-07	Appendix III	Boron	mg/L	14	0	0%	-0.374	0.120	

(Table continues on next page)
*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	14	0	0%	-0.458	0.057	
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.527	0.029	*
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	14	3	21%	-0.239	0.366	
17_1_3_120	MW-07	Appendix III	pH (field)	su	14	0	0%	0.145	0.548	
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.279	0.248	
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.131	0.585	
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	14	13	93%	NA	NA	
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	14	0	0%	-0.020	0.933	
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	14	0	0%	0.319	0.185	
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	14	11	79%	-0.403	0.269	
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.056	0.815	
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	14	0	0%	0.174	0.471	
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	14	3	21%	-0.239	0.366	
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	14	0	0%	-0.283	0.240	
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	2	15%	-0.349	0.187	
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	14	9	64%	-0.734	0.030	*
17_1_5_111	MW-07	Part 115	Copper	mg/L	14	10	71%	-0.160	0.652	
17_1_5_114	MW-07	Part 115	Iron	mg/L	14	0	0%	0.117	0.628	
17_1_5_119	MW-07	Part 115	Nickel	mg/L	14	13	93%	NA	NA	
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	14	12	86%	-0.500	0.157	
17_1_5_129	MW-07	Part 115	Zinc	mg/L	14	9	64%	-0.358	0.290	
18_1_3_105	MW-08	Appendix III	Boron	mg/L	14	0	0%	0.115	0.634	
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	14	0	0%	0.459	0.057	
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.134	0.579	
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	14	0	0%	0.292	0.226	
18_1_3_120	MW-08	Appendix III	pH (field)	su	14	0	0%	0.075	0.755	
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	14	4	29%	0.087	0.751	
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.089	0.711	
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	14	6	43%	-0.048	0.871	
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	14	0	0%	0.358	0.137	
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	14	0	0%	0.279	0.247	
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	14	13	93%	NA	NA	
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	14	13	93%	NA	NA	
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.443	0.066	
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	14	0	0%	0.082	0.735	
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.292	0.226	
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	14	9	64%	-0.425	0.208	
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	14	0	0%	0.308	0.201	
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	14	0	0%	0.199	0.409	
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	0.029	0.916	
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	14	5	36%	-0.135	0.634	
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	

(Table continues on next page)
*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
18_1_5_111	MW-08	Part 115	Copper	mg/L	14	5	36%	0.472	0.097	
18_1_5_114	MW-08	Part 115	Iron	mg/L	14	0	0%	0.492	0.041	*
18_1_5_119	MW-08	Part 115	Nickel	mg/L	14	0	0%	0.214	0.374	
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	14	13	93%	NA	NA	
18_1_5_129	MW-08	Part 115	Zinc	mg/L	14	3	21%	-0.285	0.281	
19_2_3_105	MW-09	Appendix III	Boron	mg/L	14	0	0%	-0.116	0.630	
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	14	0	0%	0.268	0.266	
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.242	0.315	
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	14	0	0%	0.293	0.223	
19_2_3_120	MW-09	Appendix III	pH (field)	su	14	0	0%	0.217	0.368	
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.289	0.230	
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.405	0.093	
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	14	9	64%	-0.610	0.071	
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	14	0	0%	-0.018	0.939	
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0	0%	0.139	0.565	
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	14	11	79%	-0.172	0.637	
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.104	0.665	
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	14	0	0%	0.039	0.873	
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.293	0.223	
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	14	0	0%	0.141	0.558	
19_2_4_117	MW-09	Appendix IV	Mercury	mg/L	14	12	86%	-0.500	0.157	
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	14	0	0%	0.347	0.149	
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	13	12	92%	NA	NA	
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	2	14%	0.320	0.211	
19_2_5_111	MW-09	Part 115	Copper	mg/L	14	9	64%	-0.398	0.239	
19_2_5_114	MW-09	Part 115	Iron	mg/L	14	0	0%	0.429	0.075	
19_2_5_119	MW-09	Part 115	Nickel	mg/L	14	0	0%	-0.013	0.956	
19_2_5_129	MW-09	Part 115	Zinc	mg/L	14	8	57%	-0.550	0.088	
20_3_3_105	MW-10	Appendix III	Boron	mg/L	14	0	0%	0.510	0.034	*
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	14	0	0%	0.452	0.061	
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.536	0.026	*
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	14	0	0%	0.546	0.023	*
20_3_3_120	MW-10	Appendix III	pH (field)	su	14	0	0%	0.056	0.817	
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.356	0.140	
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.394	0.102	
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	14	10	71%	-0.363	0.304	
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	14	0	0%	0.314	0.192	
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	14	0	0%	0.272	0.258	
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	14	7	50%	-0.262	0.395	
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.521	0.031	*
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	1	7%	0.079	0.750	
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.546	0.023	*

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	14	12	86%	-0.500	0.157	
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	14	0	0%	-0.107	0.657	
20_3_4_117	MW-10	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	14	0	0%	0.083	0.731	
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	13	10	77%	-0.037	0.920	
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	1	7%	-0.069	0.781	
20_3_5_111	MW-10	Part 115	Copper	mg/L	14	11	79%	-0.659	0.071	
20_3_5_114	MW-10	Part 115	Iron	mg/L	14	0	0%	0.502	0.037	*
20_3_5_119	MW-10	Part 115	Nickel	mg/L	14	7	50%	-0.304	0.325	
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	14	11	79%	-0.334	0.361	
20_3_5_129	MW-10	Part 115	Zinc	mg/L	14	6	43%	-0.252	0.394	
21_2_3_105	MW-11	Appendix III	Boron	mg/L	14	0	0%	0.416	0.084	
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	14	0	0%	0.294	0.223	
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.401	0.096	
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	14	0	0%	0.265	0.271	
21_2_3_120	MW-11	Appendix III	pH (field)	su	14	0	0%	0.180	0.455	
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	14	5	36%	0.534	0.060	
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.203	0.400	
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	14	10	71%	-0.539	0.127	
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0	0%	0.173	0.473	
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	14	0	0%	0.229	0.341	
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	14	11	79%	-0.667	0.068	
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	14	12	86%	-0.500	0.157	
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.073	0.763	
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0	0%	-0.251	0.297	
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.265	0.271	
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	14	3	21%	-0.070	0.790	
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	14	0	0%	0.318	0.187	
21_2_4_117	MW-11	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14	2	14%	0.003	0.989	
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	-0.336	0.238	
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	3	21%	0.202	0.446	
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	
21_2_5_111	MW-11	Part 115	Copper	mg/L	14	3	21%	-0.138	0.602	
21_2_5_114	MW-11	Part 115	Iron	mg/L	14	0	0%	0.404	0.093	
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0	0%	-0.075	0.755	
21_2_5_123	MW-11	Part 115	Silver	mg/L	14	12	86%	-0.500	0.157	
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	14	12	86%	-0.500	0.157	
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	4	29%	0.051	0.853	
22_2_3_105	MW-12	Appendix III	Boron	mg/L	14	0	0%	0.333	0.166	
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	14	0	0%	0.019	0.937	
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.021	0.931	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	14	0	0%	0.049	0.838	
22_2_3_120	MW-12	Appendix III	pH (field)	su	14	0	0%	0.131	0.586	
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.510	0.034	*
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.084	0.728	
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	14	0	0%	0.301	0.212	
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	14	0	0%	0.262	0.276	
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	14	0	0%	0.477	0.048	*
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	14	0	0%	0.329	0.172	
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	14	5	36%	0.178	0.532	
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	14	5	36%	0.028	0.922	
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.049	0.838	
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	14	6	43%	0.271	0.359	
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	14	0	0%	0.132	0.584	
22_2_4_117	MW-12	Appendix IV	Mercury	mg/L	14	12	86%	-0.500	0.157	
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	14	0	0%	0.100	0.678	
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	13	9	69%	-0.160	0.651	
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	14	0	0%	0.115	0.634	
22_2_5_111	MW-12	Part 115	Copper	mg/L	14	0	0%	0.336	0.163	
22_2_5_114	MW-12	Part 115	Iron	mg/L	14	6	43%	-0.149	0.614	
22_2_5_119	MW-12	Part 115	Nickel	mg/L	14	0	0%	0.192	0.426	
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	14	6	43%	-0.094	0.751	
22_2_5_129	MW-12	Part 115	Zinc	mg/L	14	0	0%	0.106	0.660	
28_1_3_105	MW-18	Appendix III	Boron	mg/L	14	0	0%	0.749	0.002	**
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	14	0	0%	0.390	0.106	
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.170	0.480	
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	14	0	0%	0.222	0.357	
28_1_3_120	MW-18	Appendix III	pH (field)	su	14	0	0%	0.133	0.580	
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.104	0.667	
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.339	0.159	
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	14	3	21%	-0.309	0.243	
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	14	0	0%	0.279	0.247	
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	14	0	0%	0.332	0.168	
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	14	12	86%	-0.500	0.157	
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	14	6	43%	0.105	0.722	
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	14	13	93%	NA	NA	
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	14	0	0%	0.668	0.006	**
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.222	0.357	
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	14	9	64%	-0.255	0.450	
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	14	0	0%	0.312	0.195	
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	14	0	0%	0.302	0.210	
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	-0.041	0.903	
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	14	0	0%	0.239	0.321	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
28_1_5_111	MW-18	Part 115	Copper	mg/L	14	0	0%	-0.009	0.971	
28_1_5_114	MW-18	Part 115	Iron	mg/L	14	0	0%	0.505	0.036	*
28_1_5_119	MW-18	Part 115	Nickel	mg/L	14	0	0%	0.653	0.007	**
28_1_5_129	MW-18	Part 115	Zinc	mg/L	14	0	0%	0.430	0.074	
29_1_3_105	MW-19	Appendix III	Boron	mg/L	14	0	0%	0.113	0.640	
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	14	0	0%	0.337	0.161	
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.538	0.026	*
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	14	0	0%	0.200	0.407	
29_1_3_120	MW-19	Appendix III	pH (field)	su	14	0	0%	-0.240	0.320	
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-0.034	0.889	
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.692	0.004	**
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	14	12	86%	-0.500	0.157	
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	14	0	0%	0.210	0.383	
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	14	0	0%	0.405	0.092	
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	14	3	21%	0.162	0.540	
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	14	5	36%	0.198	0.487	
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	14	1	7%	0.164	0.507	
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.200	0.407	
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	14	0	0%	0.332	0.168	
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	14	0	0%	0.150	0.535	
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	13	5	38%	0.103	0.729	
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	14	10	71%	-0.337	0.341	
29_1_5_111	MW-19	Part 115	Copper	mg/L	14	12	86%	-0.500	0.157	
29_1_5_114	MW-19	Part 115	Iron	mg/L	14	0	0%	0.443	0.066	
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	1	7%	0.093	0.709	
29_1_5_129	MW-19	Part 115	Zinc	mg/L	14	10	71%	-0.735	0.038	*
30_1_3_105	MW-20	Appendix III	Boron	mg/L	14	0	0%	0.135	0.576	
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	14	0	0%	0.175	0.468	
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.292	0.226	
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0	0%	0.057	0.812	
30_1_3_120	MW-20	Appendix III	pH (field)	su	14	0	0%	-0.042	0.861	
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.613	0.011	*
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.244	0.311	
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	14	4	29%	0.197	0.472	
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	14	0	0%	0.116	0.631	
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	14	0	0%	0.215	0.372	
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	14	13	93%	NA	NA	
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	14	6	43%	-0.184	0.534	
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	14	0	0%	0.617	0.010	*
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.057	0.812	
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	14	0	0%	0.371	0.124	
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	14	0	0%	0.215	0.372	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	14	0	0%	0.387	0.108	
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	-0.076	0.815	
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	14	8	57%	-0.117	0.718	
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	
30_1_5_111	MW-20	Part 115	Copper	mg/L	14	2	14%	0.295	0.249	
30_1_5_114	MW-20	Part 115	Iron	mg/L	14	0	0%	-0.032	0.893	
30_1_5_119	MW-20	Part 115	Nickel	mg/L	14	0	0%	0.567	0.019	*
30_1_5_129	MW-20	Part 115	Zinc	mg/L	14	0	0%	-0.189	0.434	
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0	0%	-0.068	0.777	
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0	0%	-0.068	0.779	
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.277	0.250	
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	14	0	0%	-0.252	0.296	
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0	0%	0.010	0.966	
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-0.262	0.276	
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.036	0.882	
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	14	12	86%	-0.500	0.157	
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	2	14%	0.282	0.271	
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	14	0	0%	0.337	0.162	
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	14	12	86%	-0.500	0.157	
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.089	0.710	
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	14	0	0%	-0.028	0.906	
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.252	0.296	
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	14	13	93%	NA	NA	
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	14	0	0%	-0.157	0.516	
40_1_4_117	MW-30	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	14	3	21%	-0.029	0.912	
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	-0.490	0.129	
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	14	7	50%	-0.305	0.323	
40_1_5_111	MW-30	Part 115	Copper	mg/L	14	10	71%	-0.189	0.593	
40_1_5_114	MW-30	Part 115	Iron	mg/L	14	0	0%	-0.111	0.646	
40_1_5_119	MW-30	Part 115	Nickel	mg/L	14	3	21%	-0.014	0.959	
40_1_5_129	MW-30	Part 115	Zinc	mg/L	14	10	71%	-0.097	0.783	
41_1_3_105	MW-31	Appendix III	Boron	mg/L	14	0	0%	0.370	0.124	
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	14	0	0%	0.345	0.152	
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.127	0.597	
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	14	0	0%	0.211	0.382	
41_1_3_120	MW-31	Appendix III	pH (field)	su	14	0	0%	-0.136	0.572	
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.646	0.007	**
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.063	0.794	
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	14	6	43%	0.430	0.146	
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	14	0	0%	0.332	0.168	
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	14	0	0%	0.147	0.540	

(Table continues on next page)
*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	14	12	86%	-0.500	0.157	
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	14	13	93%	NA	NA	
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.014	0.952	
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	14	2	14%	-0.513	0.045	*
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.211	0.382	
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	14	12	86%	-0.500	0.157	
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	14	0	0%	0.096	0.689	
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	14	0	0%	0.193	0.422	
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	-0.423	0.137	
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	14	6	43%	-0.155	0.601	
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	14	13	93%	NA	NA	
41_1_5_111	MW-31	Part 115	Copper	mg/L	14	9	64%	-0.385	0.254	
41_1_5_114	MW-31	Part 115	Iron	mg/L	14	0	0%	0.583	0.016	*
41_1_5_119	MW-31	Part 115	Nickel	mg/L	14	10	71%	-0.063	0.858	
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	14	12	86%	-0.500	0.157	
41_1_5_129	MW-31	Part 115	Zinc	mg/L	14	9	64%	-0.198	0.558	
42_1_3_105	MW-32	Appendix III	Boron	mg/L	14	0	0%	0.075	0.756	
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	14	0	0%	0.444	0.066	
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.540	0.025	*
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	14	0	0%	-0.362	0.133	
42_1_3_120	MW-32	Appendix III	pH (field)	su	14	0	0%	0.116	0.629	
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.468	0.052	
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.397	0.099	
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	14	10	71%	0.004	0.991	
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0	0%	-0.096	0.689	
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	14	0	0%	0.267	0.268	
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	14	13	93%	NA	NA	
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	14	13	93%	NA	NA	
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.134	0.577	
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0	0%	-0.229	0.343	
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.362	0.133	
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	14	10	71%	0.292	0.409	
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	14	0	0%	0.084	0.727	
42_1_4_117	MW-32	Appendix IV	Mercury	mg/L	14	13	93%	NA	NA	
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.029	0.905	
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	-0.297	0.379	
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	14	11	79%	-0.172	0.637	
42_1_5_111	MW-32	Part 115	Copper	mg/L	14	8	57%	-0.226	0.483	
42_1_5_114	MW-32	Part 115	Iron	mg/L	14	0	0%	0.558	0.021	*
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0	0%	-0.099	0.682	
42_1_5_129	MW-32	Part 115	Zinc	mg/L	14	0	0%	0.356	0.139	

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 5: Outlier Counts by Date

Date	Count
2022-11-30	2
2023-01-03	8
2023-01-04	6
2023-01-05	1
2023-02-06	1
2023-02-08	1
2023-03-13	3
2023-03-14	1
2023-04-18	5
2023-05-23	1
2023-06-28	1
2023-08-07	1
2023-08-08	1
2023-10-24	4
2024-02-12	8
2024-02-13	10
2024-04-07	2
2024-07-17	2
2024-07-18	1
2024-10-15	1
2024-10-16	4
2025-02-25	18
2025-02-26	3

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0	0%	14	2023-01-03	NA	6.02
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	3	21%	11	2023-04-18	5	0.00120
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0	0%	14	2024-02-13	1	0.00410
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0	0%	14	2024-02-13	1	0.0220
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	2	14%	12	2023-06-28	5	0.00530
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	1	7%	13	2024-02-13	1	0.00560
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0	0%	14	2024-02-13	1	0.00180
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0	0%	14	2024-02-13	1	0.0220
12_2_3_105	MW-02	Appendix III	Boron	mg/L	14	0	0%	14	2025-02-25	20	170
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	14	2023-02-08	50	67.0
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0	0%	14	2025-02-25	10	16.0
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	3	21%	11	2023-04-18	5	0.000630
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0	0%	14	2024-02-13	1	0.000440
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	14	10	71%	4	2023-10-24	1	0.000490

(Table continues on next page)

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	14	2025-02-25	10	16.0
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0	0%	14	2025-02-25	1	0.00230
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	14	0	0%	14	2023-01-04	5	1.60
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	14	8	57%	6	2023-04-18	5	0.000450
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	14	2023-01-04	5	1.60
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	1	7%	13	2023-01-04	1	0.0150
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	14	0	0%	14	2023-10-24	5	1.90
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	14	2023-01-04	5	1.80
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	14	0	0%	14	2025-02-26	1	0.00280
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	14	0	0%	14	2023-01-04	1	0.460
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	14	2023-10-24	5	1.90
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0	0%	14	2025-02-26	1	0.620
16_1_3_120	MW-06	Appendix III	pH (field)	su	14	0	0%	14	2023-02-06	NA	6.42
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	10	2023-03-14	NA	1.91
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	5	36%	9	2024-02-13	1	0.000470
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	14	0	0%	14	2023-04-18	10	0.250
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0	0%	14	2024-07-17	1	0.000740
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	2	15%	11	2023-08-07	1	2.36
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	14	2024-10-16	5	99.0
18_1_3_120	MW-08	Appendix III	pH (field)	su	14	0	0%	14	2023-01-05	NA	6.21
18_1_5_119	MW-08	Part 115	Nickel	mg/L	14	0	0%	14	2024-10-16	1	0.0130
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	14	2025-02-25	10	67.0
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0	0%	14	2023-01-04	5	2.40
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	14	11	79%	3	2025-02-25	1	0.000150
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	2	14%	12	2025-02-25	1	0.000640
19_2_5_111	MW-09	Part 115	Copper	mg/L	14	9	64%	5	2024-07-17	1	0.00130
19_2_5_119	MW-09	Part 115	Nickel	mg/L	14	0	0%	14	2025-02-25	1	0.100
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	14	10	71%	4	2023-04-18	5	0.000340
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	1	7%	13	2023-05-23	1	0.00180
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	1	7%	13	2024-02-13	1	0.000830
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	14	2023-10-24	4	1800
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0	0%	14	2023-01-03	1	0.00410
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	14	11	79%	3	2024-04-07	1	0.000440
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	14	0	0%	14	2023-01-03	1	0.00860
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0	0%	14	2024-04-07	1	0.00240
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	14	3	21%	11	2023-01-03	1	0.0680
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	3	21%	11	2024-02-13	1	0.000710
21_2_5_111	MW-11	Part 115	Copper	mg/L	14	3	21%	11	2023-01-03	1	0.0190
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0	0%	14	2023-01-03	1	0.00940
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	4	29%	10	2023-01-03	1	0.100
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	14	0	0%	14	2024-10-16	1	0.0180
22_2_5_111	MW-12	Part 115	Copper	mg/L	14	0	0%	14	2025-02-26	1	0.00340
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	14	9	64%	5	2023-08-08	1	0.000320

(Table continues on next page)

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
28_1_5_111	MW-18	Part 115	Copper	mg/L	14	0	0%	14	2024-10-16	1	0.00170
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	1	7%	13	2024-07-18	1	0.0170
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0	0%	14	2022-11-30	25	0.550
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	14	2022-11-30	25	0.550
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	14	8	57%	6	2024-02-13	1	0.000260
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0	0%	14	2023-03-13	50	3.50
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0	0%	14	2023-03-13	50	960
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	14	2025-02-25	100	1200
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	14	0	0%	14	2025-02-25	10	0.570
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0	0%	14	2023-01-03	NA	6.48
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	14	2025-02-25	1923	4000
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	2	14%	12	2025-02-25	5	0.00220
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	14	0	0%	14	2025-02-25	5	0.0460
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	14	2025-02-25	10	0.570
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	14	0	0%	14	2023-03-13	50	0.270
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	14	3	21%	11	2025-02-25	5	0.0190
40_1_5_119	MW-30	Part 115	Nickel	mg/L	14	3	21%	11	2025-02-25	5	0.110
40_1_5_129	MW-30	Part 115	Zinc	mg/L	14	10	71%	4	2025-02-25	5	0.100
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	14	2	14%	12	2024-10-15	1	0.000360
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	14	6	43%	8	2024-02-12	1	0.000740
41_1_5_119	MW-31	Part 115	Nickel	mg/L	14	10	71%	4	2025-02-25	1	0.0230
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0	0%	14	2024-02-12	1	0.00240
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	14	0	0%	14	2024-02-12	1	0.00300
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0	0%	14	2024-02-12	1	0.00190
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0	0%	14	2024-02-12	1	0.00730
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	14	11	79%	3	2024-02-12	1	0.00100
42_1_5_111	MW-32	Part 115	Copper	mg/L	14	8	57%	6	2024-02-12	1	0.0160
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0	0%	14	2024-02-12	1	0.0230

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full									Without Non-Detects												
						Sample Size					p-Value				Sample Size					p-Value							
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.049	*	0.023	*	0.066	4	4	3	3	14	0.049	*	0.023	*	0.066		
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.078		0.078		0.050	4	4	3	3	14	0.078		0.078		0.050		
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.048	*	0.058		0.095	4	4	3	3	14	0.048	*	0.058		0.095		
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.039	*	0.022	*	0.064	4	4	3	3	14	0.039	*	0.022	*	0.064		
11_2_3_120	MW-01R	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.576		0.439		0.446	4	4	3	3	14	0.576		0.439		0.446		
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.054		0.038	*	0.079	4	4	3	3	14	0.054		0.038	*	0.079		
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.191		0.219		0.225	4	4	3	3	14	0.191		0.219		0.225		
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	21%	4	4	3	3	14	0.753		0.528		0.618	2	3	3	3	11	0.895		0.621		0.708		
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.092		0.384		0.170	4	4	3	3	14	0.092		0.384		0.170		
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.052		0.103		0.053	4	4	3	3	14	0.052		0.103		0.053		
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14%	4	4	3	3	14	0.404		0.367		0.513	4	3	3	2	12	0.382		0.508		0.618		
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	79%	4	4	3	3	14	0.982		0.851		0.919	1	0	1	1	3	0.368		NA		NA		
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.061		0.526		0.250	4	4	3	3	14	0.061		0.526		0.250		
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.331		0.539		0.512	4	4	3	3	14	0.331		0.539		0.512		
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.039	*	0.022	*	0.064	4	4	3	3	14	0.039	*	0.022	*	0.064		
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14%	4	4	3	3	14	0.409		0.380		0.350	3	3	3	3	12	0.218		0.455		0.305		
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.072		0.057		0.131	4	4	3	3	14	0.072		0.057		0.131		
11_2_4_117	MW-01R	Appendix IV	Mercury	mg/L	100%	4	4	3	3	14	NA		0.325		0.325	NA	NA	NA	NA	NA	NA		NA		NA		
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	7%	4	4	3	3	14	0.752		0.585		0.551	4	3	3	3	13	0.933		0.663		0.709		
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	54%	3	4	3	3	13	0.673		0.767		0.827	2	1	2	1	6	0.463		0.840		0.859		
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	0%	4	4	3	3	14	0.357		0.672		0.575	4	4	3	3	14	0.357		0.672		0.575		
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	0.358		0.394		0.394	NA	NA	NA	NA	NA	NA		NA		NA		
11_2_5_111	MW-01R	Part 115	Copper	mg/L	36%	4	4	3	3	14	0.154		0.316		0.230	2	1	3	3	9	0.257		0.544		0.385		
11_2_5_114	MW-01R	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.156		0.206		0.195	4	4	3	3	14	0.156		0.206		0.195		
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.252		0.549		0.445	4	4	3	3	14	0.252		0.549		0.445		
11_2_5_123	MW-01R	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.272		0.292		0.292	NA	NA	NA	NA	NA	NA		NA		NA		
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14%	4	4	3	3	14	0.057		0.000	***	0.022	*	3	3	3	3	12	0.084		0.001	**	0.032	*
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	21%	4	4	3	3	14	0.450		0.668		0.692	4	2	2	3	11	0.627		0.908		0.866		
12_2_3_105	MW-02	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.581		0.688		0.682	4	4	3	3	14	0.581		0.688		0.682		
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.627		0.574		0.587	4	4	3	3	14	0.627		0.574		0.587		
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.692		0.543		0.532	4	4	3	3	14	0.692		0.543		0.532		
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.579		0.981		0.970	4	4	3	3	14	0.579		0.981		0.970		
12_2_3_120	MW-02	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.218		0.253		0.254	4	4	3	3	14	0.218		0.253		0.254		
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	64%	4	4	3	3	14	0.989		0.895		0.998	1	1	1	2	5	0.532		0.676		0.743		
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.193		0.387		0.342	4	4	3	3	14	0.193		0.387		0.342		
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	21%	4	4	3	3	14	0.368		0.160		0.206	2	3	3	3	11	0.592		0.510		0.534		
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.658		0.659		0.587	4	4	3	3	14	0.658		0.659		0.587		
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.313		0.394		0.467	4	4	3	3	14	0.313		0.394		0.467		
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	7%	4	4	3	3	14	0.522		0.563		0.649	3	4	3	3	13	0.307		0.395		0.309		

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects									
						Sample Size					p-Value			Sample Size					p-Value				
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA		
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	71%	4	4	3	3	14	0.948	0.653	0.887	2	1	0	1	4	0.259	0.060	0.188		
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.141	0.294	0.729	4	4	3	3	14	0.141	0.294	0.729		
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.330	0.571	0.744	4	4	3	3	14	0.330	0.571	0.744		
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.579	0.981	0.970	4	4	3	3	14	0.579	0.981	0.970		
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	7%	4	4	3	3	14	0.422	0.571	0.701	3	4	3	3	13	0.182	0.306	0.194		
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.190	0.265	0.258	4	4	3	3	14	0.190	0.265	0.258		
12_2_4_117	MW-02	Appendix IV	Mercury	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA		
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	0%	4	4	3	3	14	0.234	0.321	0.342	4	4	3	3	14	0.234	0.321	0.342		
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	31%	3	4	3	3	13	0.500	0.432	0.654	2	3	2	2	9	0.485	0.610	0.637		
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	0%	4	4	3	3	14	0.395	0.616	0.557	4	4	3	3	14	0.395	0.616	0.557		
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	93%	4	4	3	3	14	0.735	0.715	0.846	0	0	0	1	1	NA	NA	NA		
12_2_5_111	MW-02	Part 115	Copper	mg/L	0%	4	4	3	3	14	0.812	0.877	0.921	4	4	3	3	14	0.812	0.877	0.921		
12_2_5_114	MW-02	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.063	0.055	0.043	*	4	4	3	3	14	0.063	0.055	0.043	*
12_2_5_119	MW-02	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.593	0.674	0.951	4	4	3	3	14	0.593	0.674	0.951		
12_2_5_123	MW-02	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.341	0.374	0.374	NA	NA	NA	NA	NA	NA	NA	NA		
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	7%	4	4	3	3	14	0.187	0.213	0.440	3	4	3	3	13	0.157	0.186	0.269		
12_2_5_129	MW-02	Part 115	Zinc	mg/L	0%	4	4	3	3	14	0.495	0.638	0.485	4	4	3	3	14	0.495	0.638	0.485		
13_2_3_105	MW-03	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.269	0.393	0.395	4	4	3	3	14	0.269	0.393	0.395		
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.625	0.607	0.573	4	4	3	3	14	0.625	0.607	0.573		
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.808	0.612	0.710	4	4	3	3	14	0.808	0.612	0.710		
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.058	0.408	0.330	4	4	3	3	14	0.058	0.408	0.330		
13_2_3_120	MW-03	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.474	0.372	0.376	4	4	3	3	14	0.474	0.372	0.376		
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.064	0.035	*	4	4	3	3	14	0.064	0.035	*	0.146	
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.307	0.428	0.414	4	4	3	3	14	0.307	0.428	0.414		
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	57%	4	4	3	3	14	0.197	0.527	0.397	2	3	0	1	6	0.213	0.592	0.475		
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.305	0.541	0.476	4	4	3	3	14	0.305	0.541	0.476		
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.958	0.986	0.932	4	4	3	3	14	0.958	0.986	0.932		
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	64%	4	4	3	3	14	0.888	0.816	0.837	1	2	1	1	5	0.849	0.840	0.823		
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	93%	4	4	3	3	14	0.823	0.628	0.798	0	0	0	1	1	NA	NA	NA		
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.386	0.502	0.439	4	4	3	3	14	0.386	0.502	0.439		
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.255	0.369	0.323	4	4	3	3	14	0.255	0.369	0.323		
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.058	0.408	0.330	4	4	3	3	14	0.058	0.408	0.330		
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	93%	4	4	3	3	14	0.646	0.604	0.790	0	0	0	1	1	NA	NA	NA		
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.958	0.884	0.918	4	4	3	3	14	0.958	0.884	0.918		
13_2_4_117	MW-03	Appendix IV	Mercury	mg/L	93%	4	4	3	3	14	0.300	0.325	0.325	0	0	0	1	1	NA	NA	NA		
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	71%	4	4	3	3	14	0.241	0.584	0.381	1	1	0	2	4	0.407	0.635	0.722		
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	8%	3	4	3	3	13	0.716	0.747	0.750	2	4	3	3	12	0.558	0.642	0.634		
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	21%	4	4	3	3	14	0.263	0.419	0.411	2	3	3	3	11	0.241	0.364	0.426		
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	93%	4	4	3	3	14	0.425	0.472	0.522	0	0	0	1	1	NA	NA	NA		

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects													
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
13_2_5_111	MW-03	Part 115	Copper	mg/L	43%	4	4	3	3	14	0.887	0.629	0.679	1	2	3	2	8	0.401	0.199	0.189						
13_2_5_114	MW-03	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.106	0.341	0.144	4	4	3	3	14	0.106	0.341	0.144						
13_2_5_119	MW-03	Part 115	Nickel	mg/L	7%	4	4	3	3	14	0.831	0.461	0.527	3	4	3	3	13	0.956	0.451	0.697						
13_2_5_123	MW-03	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.272	0.292	0.292	NA	NA	NA	NA	NA	NA	NA	NA						
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	64%	4	4	3	3	14	0.914	0.920	0.938	1	1	1	2	5	0.317	0.313	0.376						
13_2_5_129	MW-03	Part 115	Zinc	mg/L	57%	4	4	3	3	14	0.143	0.239	0.219	0	2	1	3	6	0.501	0.730	0.721						
14_2_3_105	MW-04	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.191	0.111	0.125	4	4	3	3	14	0.191	0.111	0.125						
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.287	0.166	0.171	4	4	3	3	14	0.287	0.166	0.171						
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.542	0.739	0.772	4	4	3	3	14	0.542	0.739	0.772						
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.414	0.228	0.250	4	4	3	3	14	0.414	0.228	0.250						
14_2_3_120	MW-04	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.121	0.115	0.114	4	4	3	3	14	0.121	0.115	0.114						
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.300	0.329	0.498	4	4	3	3	14	0.300	0.329	0.498						
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.094	0.108	0.096	4	4	3	3	14	0.094	0.108	0.096						
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	71%	4	4	3	3	14	0.586	0.661	0.720	1	1	1	1	4	0.392	NA	NA						
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.865	0.680	0.768	4	4	3	3	14	0.865	0.680	0.768						
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.284	0.363	0.271	4	4	3	3	14	0.284	0.363	0.271						
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	86%	4	4	3	3	14	0.408	0.356	0.359	0	0	1	1	2	0.317	NA	NA						
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	100%	4	4	3	3	14	0.680	0.573	0.695	NA	NA	NA	NA	NA	NA	NA	NA						
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.852	0.716	0.657	4	4	3	3	14	0.852	0.716	0.657						
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.928	0.773	0.926	4	4	3	3	14	0.928	0.773	0.926						
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.414	0.228	0.250	4	4	3	3	14	0.414	0.228	0.250						
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	100%	4	4	3	3	14	0.929	0.865	0.944	NA	NA	NA	NA	NA	NA	NA	NA						
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.029	*	0.011	*	0.020	*	4	4	3	3	14	0.029	*	0.011	*	0.020	*
14_2_4_117	MW-04	Appendix IV	Mercury	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	14%	4	4	3	3	14	0.479	0.875	0.721	3	3	3	3	12	0.311	0.582	0.555						
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	23%	3	4	3	3	13	0.639	0.868	0.799	2	3	2	3	10	0.631	0.637	0.546						
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	36%	4	4	3	3	14	0.251	0.188	0.221	3	1	3	2	9	0.395	0.350	0.385						
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	0.892	0.916	0.916	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
14_2_5_111	MW-04	Part 115	Copper	mg/L	86%	4	4	3	3	14	0.537	0.613	0.610	0	1	0	1	2	0.317	NA	NA						
14_2_5_114	MW-04	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.084	0.329	0.483	4	4	3	3	14	0.084	0.329	0.483						
14_2_5_119	MW-04	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.126	0.135	0.260	4	4	3	3	14	0.126	0.135	0.260						
14_2_5_123	MW-04	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.272	0.292	0.292	NA	NA	NA	NA	NA	NA	NA	NA						
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	71%	4	4	3	3	14	0.931	0.772	0.818	1	1	1	1	4	0.392	NA	NA						
14_2_5_129	MW-04	Part 115	Zinc	mg/L	71%	4	4	3	3	14	0.047	*	0.200	0.120	0	1	0	3	4	0.180	0.418	0.516					
16_1_3_105	MW-06	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.041	*	0.020	*	0.037	*	4	4	3	3	14	0.041	*	0.020	*	0.037	*
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.096	0.096	0.100	4	4	3	3	14	0.096	0.096	0.100						
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.686	0.552	0.705	4	4	3	3	14	0.686	0.552	0.705						
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.227	0.171	0.168	4	4	3	3	14	0.227	0.171	0.168						
16_1_3_120	MW-06	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.853	0.715	0.701	4	4	3	3	14	0.853	0.715	0.701						

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects											
						Sample Size					p-Value			Sample Size					p-Value						
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA				
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	14%	4	4	3	3	14	0.459	0.535	0.411	4	4	2	2	12	0.764	0.834	0.787				
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.695	0.745	0.718	4	4	3	3	14	0.695	0.745	0.718				
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	86%	4	4	3	3	14	0.773	0.467	0.666	0	1	0	1	2	0.317	NA	NA				
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.054	0.012	*	0.012	*	4	4	3	3	14	0.054	0.012	*	0.012	*
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.089	0.092	0.096	4	4	3	3	14	0.089	0.092	0.096				
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	93%	4	4	3	3	14	0.300	0.325	0.325	1	0	0	0	1	NA	NA	NA				
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	100%	4	4	3	3	14	0.680	0.573	0.695	NA	NA	NA	NA	NA	NA	NA	NA				
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.729	0.827	0.801	4	4	3	3	14	0.729	0.827	0.801				
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.794	0.627	0.723	4	4	3	3	14	0.794	0.627	0.723				
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.227	0.171	0.168	4	4	3	3	14	0.227	0.171	0.168				
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	64%	4	4	3	3	14	0.336	0.431	0.306	2	0	1	2	5	0.741	0.935	0.920				
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.727	0.711	0.647	4	4	3	3	14	0.727	0.711	0.647				
16_1_4_117	MW-06	Appendix IV	Mercury	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA				
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	57%	4	4	3	3	14	0.740	0.556	0.548	1	1	2	2	6	0.463	0.290	0.375				
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	23%	3	4	3	3	13	0.852	0.710	0.790	2	3	2	3	10	0.710	0.651	0.695				
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	36%	4	4	3	3	14	0.316	0.502	0.468	2	2	3	2	9	0.410	0.387	0.391				
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	0.446	0.293	0.294	NA	NA	NA	NA	NA	NA	NA	NA				
16_1_5_111	MW-06	Part 115	Copper	mg/L	79%	4	4	3	3	14	0.669	0.544	0.589	1	0	1	1	3	0.368	NA	NA				
16_1_5_114	MW-06	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.253	0.525	0.579	4	4	3	3	14	0.253	0.525	0.579				
16_1_5_119	MW-06	Part 115	Nickel	mg/L	36%	4	4	3	3	14	0.288	0.291	0.290	3	1	2	3	9	0.703	0.661	0.684				
16_1_5_123	MW-06	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.446	0.293	0.295	NA	NA	NA	NA	NA	NA	NA	NA				
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	93%	4	4	3	3	14	0.409	0.452	0.452	0	0	1	0	1	NA	NA	NA				
16_1_5_129	MW-06	Part 115	Zinc	mg/L	14%	4	4	3	3	14	0.284	0.317	0.185	3	3	3	3	12	0.351	0.361	0.265				
17_1_3_105	MW-07	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.350	0.391	0.395	4	4	3	3	14	0.350	0.391	0.395				
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.841	0.905	0.907	4	4	3	3	14	0.841	0.905	0.907				
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.072	0.063	0.058	4	4	3	3	14	0.072	0.063	0.058				
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	21%	4	4	3	3	14	0.833	0.845	0.917	3	3	3	2	11	0.291	0.553	0.474				
17_1_3_120	MW-07	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.753	0.629	0.631	4	4	3	3	14	0.753	0.629	0.631				
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.088	0.021	*	0.015	*	4	4	3	3	14	0.088	0.021	*	0.015	*
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.601	0.738	0.743	4	4	3	3	14	0.601	0.738	0.743				
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	93%	4	4	3	3	14	0.547	0.605	0.609	0	1	0	0	1	NA	NA	NA				
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.474	0.328	0.373	4	4	3	3	14	0.474	0.328	0.373				
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.139	0.114	0.112	4	4	3	3	14	0.139	0.114	0.112				
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	79%	4	4	3	3	14	0.669	0.601	0.613	1	0	1	1	3	0.368	NA	NA				
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	100%	4	4	3	3	14	0.529	0.582	0.582	NA	NA	NA	NA	NA	NA	NA	NA				
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.323	0.400	0.393	4	4	3	3	14	0.323	0.400	0.393				
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.892	0.795	0.818	4	4	3	3	14	0.892	0.795	0.818				
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	21%	4	4	3	3	14	0.833	0.845	0.917	3	3	3	2	11	0.291	0.553	0.474				
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	100%	4	4	3	3	14	0.529	0.582	0.582	NA	NA	NA	NA	NA	NA	NA	NA				

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full									Without Non-Detects												
						Sample Size					p-Value				Sample Size					p-Value							
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.489	0.645	0.621	4	4	3	3	14	0.489	0.645	0.621						
17_1_4_117	MW-07	Appendix IV	Mercury	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	100%	4	4	3	3	14	0.529	0.582	0.582	NA	NA	NA	NA	NA	NA	NA	NA						
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	15%	3	4	3	3	13	0.716	0.566	0.667	3	3	2	3	11	0.493	0.248	0.291						
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	64%	4	4	3	3	14	0.171	0.195	0.180	2	1	1	1	5	0.362	0.780	0.709						
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
17_1_5_111	MW-07	Part 115	Copper	mg/L	71%	4	4	3	3	14	0.988	0.619	0.681	1	1	1	1	4	0.392	NA	NA						
17_1_5_114	MW-07	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.582	0.693	0.631	4	4	3	3	14	0.582	0.693	0.631						
17_1_5_119	MW-07	Part 115	Nickel	mg/L	93%	4	4	3	3	14	0.300	0.325	0.325	0	0	0	1	1	NA	NA	NA						
17_1_5_123	MW-07	Part 115	Silver	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	86%	4	4	3	3	14	0.408	0.425	0.431	0	0	1	1	2	0.317	NA	NA						
17_1_5_129	MW-07	Part 115	Zinc	mg/L	64%	4	4	3	3	14	0.082	0.244	0.055	1	1	0	3	5	0.186	0.269	0.247						
18_1_3_105	MW-08	Appendix III	Boron	mg/L	0%	5	4	3	2	14	0.135	0.201	0.193	5	4	3	2	14	0.135	0.201	0.193						
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	0%	5	4	3	2	14	0.441	0.470	0.477	5	4	3	2	14	0.441	0.470	0.477						
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	0%	5	4	3	2	14	0.840	0.297	0.687	5	4	3	2	14	0.840	0.297	0.687						
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	0%	5	4	3	2	14	0.135	0.088	0.113	5	4	3	2	14	0.135	0.088	0.113						
18_1_3_120	MW-08	Appendix III	pH (field)	su	0%	5	4	3	2	14	0.158	0.432	0.454	5	4	3	2	14	0.158	0.432	0.454						
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	29%	5	4	3	2	14	0.163	0.365	0.078	5	3	0	2	10	0.681	0.749	0.651						
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	0%	5	4	3	2	14	0.822	0.862	0.861	5	4	3	2	14	0.822	0.862	0.861						
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	43%	5	4	3	2	14	0.803	0.585	0.675	4	2	1	1	8	0.505	0.480	0.606						
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	0%	5	4	3	2	14	0.111	0.089	0.192	5	4	3	2	14	0.111	0.089	0.192						
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	0%	5	4	3	2	14	0.724	0.781	0.752	5	4	3	2	14	0.724	0.781	0.752						
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	93%	5	4	3	2	14	0.615	0.668	0.668	1	0	0	0	1	NA	NA	NA						
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	93%	5	4	3	2	14	0.510	0.610	0.456	1	0	0	0	1	NA	NA	NA						
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	0%	5	4	3	2	14	0.121	0.528	0.371	5	4	3	2	14	0.121	0.528	0.371						
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	0%	5	4	3	2	14	0.313	0.606	0.519	5	4	3	2	14	0.313	0.606	0.519						
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	0%	5	4	3	2	14	0.135	0.088	0.113	5	4	3	2	14	0.135	0.088	0.113						
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	64%	5	4	3	2	14	0.139	0.141	0.257	3	1	0	1	5	0.349	0.059	0.318						
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	0%	5	4	3	2	14	0.192	0.200	0.172	5	4	3	2	14	0.192	0.200	0.172						
18_1_4_117	MW-08	Appendix IV	Mercury	mg/L	100%	5	4	3	2	14	NA	0.668	0.668	NA	NA	NA	NA	NA	NA	NA	NA						
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	0%	5	4	3	2	14	0.056	0.033	*	0.001	**	5	4	3	2	14	0.056	0.033	*	0.001	**		
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	23%	4	4	3	2	13	0.341	0.803	0.684	2	4	2	2	10	0.269	0.425	0.423						
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	36%	5	4	3	2	14	0.031	*	0.016	*	0.011	*	2	2	3	2	9	0.115	0.001	***	0.003	**	
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	93%	5	4	3	2	14	0.615	0.668	0.668	1	0	0	0	1	NA	NA	NA						
18_1_5_111	MW-08	Part 115	Copper	mg/L	36%	5	4	3	2	14	0.820	0.819	0.881	3	3	1	2	9	0.634	0.781	0.776						
18_1_5_114	MW-08	Part 115	Iron	mg/L	0%	5	4	3	2	14	0.036	*	0.017	*	0.007	**	5	4	3	2	14	0.036	*	0.017	*	0.007	**
18_1_5_119	MW-08	Part 115	Nickel	mg/L	0%	5	4	3	2	14	0.727	0.213	0.521	5	4	3	2	14	0.727	0.213	0.521						
18_1_5_123	MW-08	Part 115	Silver	mg/L	100%	5	4	3	2	14	NA	0.668	0.668	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	93%	5	4	3	2	14	0.615	0.668	0.668	1	0	0	0	1	NA	NA	NA						

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects													
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
18_1_5_129	MW-08	Part 115	Zinc	mg/L	21%	5	4	3	2	14	0.445	0.366	0.511	3	4	2	2	11	0.254	0.596	0.634						
19_2_3_105	MW-09	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.078	0.051	0.054	4	4	3	3	14	0.078	0.051	0.054						
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.251	0.245	0.226	4	4	3	3	14	0.251	0.245	0.226						
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.440	0.512	0.486	4	4	3	3	14	0.440	0.512	0.486						
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.192	0.243	0.280	4	4	3	3	14	0.192	0.243	0.280						
19_2_3_120	MW-09	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.057	0.063	0.063	4	4	3	3	14	0.057	0.063	0.063						
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.201	0.106	0.114	4	4	3	3	14	0.201	0.106	0.114						
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.223	0.274	0.278	4	4	3	3	14	0.223	0.274	0.278						
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	64%	4	4	3	3	14	0.655	0.423	0.490	1	2	1	1	5	0.532	0.891	0.841						
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.172	0.341	0.312	4	4	3	3	14	0.172	0.341	0.312						
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.306	0.527	0.588	4	4	3	3	14	0.306	0.527	0.588						
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	79%	4	4	3	3	14	0.809	0.561	0.588	1	1	1	0	3	0.368	NA	NA						
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	100%	4	4	3	3	14	0.749	0.698	0.798	NA	NA	NA	NA	NA	NA	NA	NA						
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.774	0.856	0.859	4	4	3	3	14	0.774	0.856	0.859						
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.113	0.149	0.096	4	4	3	3	14	0.113	0.149	0.096						
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.192	0.243	0.280	4	4	3	3	14	0.192	0.243	0.280						
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	100%	4	4	3	3	14	0.179	0.329	0.187	NA	NA	NA	NA	NA	NA	NA	NA						
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.158	0.176	0.202	4	4	3	3	14	0.158	0.176	0.202						
19_2_4_117	MW-09	Appendix IV	Mercury	mg/L	86%	4	4	3	3	14	0.502	0.553	0.566	0	1	0	1	2	0.317	NA	NA						
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	0%	4	4	3	3	14	0.174	0.367	0.554	4	4	3	3	14	0.174	0.367	0.554						
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	92%	3	4	3	3	13	0.867	0.997	0.987	0	0	0	1	1	NA	NA	NA						
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14%	4	4	3	3	14	0.620	0.628	0.558	3	3	3	3	12	0.756	0.543	0.521						
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	0.280	0.301	0.301	NA	NA	NA	NA	NA	NA	NA	NA						
19_2_5_111	MW-09	Part 115	Copper	mg/L	64%	4	4	3	3	14	0.389	0.189	0.163	1	1	2	1	5	0.285	0.819	0.736						
19_2_5_114	MW-09	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.028	*	0.002	**	0.008	**	4	4	3	3	14	0.028	*	0.002	**	0.008	**
19_2_5_119	MW-09	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.229	0.513	0.331	4	4	3	3	14	0.229	0.513	0.331						
19_2_5_123	MW-09	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.341	0.374	0.374	NA	NA	NA	NA	NA	NA	NA	NA						
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
19_2_5_129	MW-09	Part 115	Zinc	mg/L	57%	4	4	3	3	14	0.649	0.500	0.498	2	1	1	2	6	0.488	0.667	0.575						
20_3_3_105	MW-10	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.052	0.022	*	0.027	*	4	4	3	3	14	0.052	0.022	*	0.027	*		
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.578	0.486	0.544	4	4	3	3	14	0.578	0.486	0.544						
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.069	0.064	0.032	*	4	4	3	3	14	0.069	0.064	0.032	*				
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.214	0.228	0.228	4	4	3	3	14	0.214	0.228	0.228						
20_3_3_120	MW-10	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.104	0.110	0.115	4	4	3	3	14	0.104	0.110	0.115						
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.619	0.600	0.408	4	4	3	3	14	0.619	0.600	0.408						
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.829	0.754	0.804	4	4	3	3	14	0.829	0.754	0.804						
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	71%	4	4	3	3	14	0.977	0.550	0.814	0	1	2	1	4	0.223	0.000	***	0.000	***				
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.072	0.078	0.048	*	4	4	3	3	14	0.072	0.078	0.048	*				
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.048	*	0.073	0.043	*	4	4	3	3	14	0.048	*	0.073	0.043	*		

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects										
						Sample Size					p-Value			Sample Size					p-Value					
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA			
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	50%	4	4	3	3	14	0.632	0.576	0.524	1	2	2	2	7	0.426	0.698	0.658			
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	100%	4	4	3	3	14	0.680	0.573	0.695	NA	NA	NA	NA	NA	NA	NA	NA			
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.252	0.108	0.166	4	4	3	3	14	0.252	0.108	0.166			
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	7%	4	4	3	3	14	0.700	0.633	0.710	3	4	3	3	13	0.903	0.773	0.931			
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.214	0.228	0.228	4	4	3	3	14	0.214	0.228	0.228			
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	86%	4	4	3	3	14	0.608	0.424	0.597	0	0	1	1	2	0.317	NA	NA			
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.200	0.255	0.161	4	4	3	3	14	0.200	0.255	0.161			
20_3_4_117	MW-10	Appendix IV	Mercury	mg/L	93%	4	4	3	3	14	0.475	0.525	0.525	0	1	0	0	1	NA	NA	NA			
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	0%	4	4	3	3	14	0.631	0.508	0.404	4	4	3	3	14	0.631	0.508	0.404			
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	77%	3	4	3	3	13	0.467	0.491	0.547	2	0	0	1	3	0.221	0.484	0.445			
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	7%	4	4	3	3	14	0.671	0.939	0.981	4	3	3	3	13	0.564	0.955	0.965			
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	0.734	0.723	0.724	NA	NA	NA	NA	NA	NA	NA	NA			
20_3_5_111	MW-10	Part 115	Copper	mg/L	79%	4	4	3	3	14	0.211	0.572	0.470	0	1	0	2	3	0.221	0.070	0.125			
20_3_5_114	MW-10	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.071	0.061	0.081	4	4	3	3	14	0.071	0.061	0.081			
20_3_5_119	MW-10	Part 115	Nickel	mg/L	50%	4	4	3	3	14	0.411	0.789	0.780	1	1	2	3	7	0.294	0.034 *	0.064			
20_3_5_123	MW-10	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.446	0.293	0.295	NA	NA	NA	NA	NA	NA	NA	NA			
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	79%	4	4	3	3	14	0.405	0.735	0.740	0	1	1	1	3	0.368	NA	NA			
20_3_5_129	MW-10	Part 115	Zinc	mg/L	43%	4	4	3	3	14	0.034 *	0.084	0.038 *	1	2	2	3	8	0.124	0.450	0.288			
21_2_3_105	MW-11	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.028 *	0.023 *	0.004 **	4	4	3	3	14	0.028 *	0.023 *	0.004 **			
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.058	0.044 *	0.072	4	4	3	3	14	0.058	0.044 *	0.072			
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.028 *	0.006 **	0.008 **	4	4	3	3	14	0.028 *	0.006 **	0.008 **			
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.064	0.090	0.059	4	4	3	3	14	0.064	0.090	0.059			
21_2_3_120	MW-11	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.160	0.281	0.283	4	4	3	3	14	0.160	0.281	0.283			
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	36%	4	4	3	3	14	0.069	0.024 *	0.041 *	2	4	2	1	9	0.261	0.280	0.209			
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.592	0.558	0.550	4	4	3	3	14	0.592	0.558	0.550			
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	71%	4	4	3	3	14	0.652	0.523	0.567	1	2	0	1	4	0.223	0.000 ***	0.000 ***			
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.060	0.314	0.124	4	4	3	3	14	0.060	0.314	0.124			
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.043 *	0.063	0.031 *	4	4	3	3	14	0.043 *	0.063	0.031 *			
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	79%	4	4	3	3	14	0.809	0.589	0.694	1	1	0	1	3	0.368	NA	NA			
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	86%	4	4	3	3	14	0.565	0.644	0.665	1	1	0	0	2	0.317	NA	NA			
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.087	0.527	0.343	4	4	3	3	14	0.087	0.527	0.343			
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.232	0.504	0.388	4	4	3	3	14	0.232	0.504	0.388			
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.064	0.090	0.059	4	4	3	3	14	0.064	0.090	0.059			
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	21%	4	4	3	3	14	0.723	0.532	0.624	4	1	3	3	11	0.750	0.708	0.773			
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.038 *	0.130	0.013 *	4	4	3	3	14	0.038 *	0.130	0.013 *			
21_2_4_117	MW-11	Appendix IV	Mercury	mg/L	93%	4	4	3	3	14	0.475	0.525	0.525	0	1	0	0	1	NA	NA	NA			
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14%	4	4	3	3	14	0.600	0.896	0.804	4	2	3	3	12	0.953	0.832	0.954			
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	31%	3	4	3	3	13	0.963	0.908	0.935	2	3	1	3	9	0.399	0.344	0.432			
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	21%	4	4	3	3	14	0.304	0.412	0.369	3	2	3	3	11	0.545	0.402	0.409			

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full									Without Non-Detects												
						Sample Size					p-Value				Sample Size					p-Value							
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	93%	4	4	3	3	14	0.125	0.171	0.124	0	1	0	0	1	NA	NA	NA						
21_2_5_111	MW-11	Part 115	Copper	mg/L	21%	4	4	3	3	14	0.471	0.579	0.745	4	2	3	2	11	0.860	0.758	0.936						
21_2_5_114	MW-11	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.036	*	0.012	*	0.021	*	4	4	3	3	14	0.036	*	0.012	*	0.021	*
21_2_5_119	MW-11	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.552	0.553	0.545	4	4	3	3	14	0.552	0.553	0.545						
21_2_5_123	MW-11	Part 115	Silver	mg/L	86%	4	4	3	3	14	0.071	0.033	*	0.041	*	1	1	0	0	2	0.317	NA	NA				
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	86%	4	4	3	3	14	0.475	0.525	0.525	1	1	0	0	2	0.317	NA	NA						
21_2_5_129	MW-11	Part 115	Zinc	mg/L	29%	4	4	3	3	14	0.471	0.381	0.432	3	2	2	3	10	0.301	0.432	0.462						
22_2_3_105	MW-12	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.026	*	0.001	**	0.002	**	4	4	3	3	14	0.026	*	0.001	**	0.002	**
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.105	0.089	0.106	4	4	3	3	14	0.105	0.089	0.106						
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.143	0.139	0.116	4	4	3	3	14	0.143	0.139	0.116						
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.829	0.826	0.878	4	4	3	3	14	0.829	0.826	0.878						
22_2_3_120	MW-12	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.090	0.243	0.252	4	4	3	3	14	0.090	0.243	0.252						
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.806	0.800	0.883	4	4	3	3	14	0.806	0.800	0.883						
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.129	0.109	0.227	4	4	3	3	14	0.129	0.109	0.227						
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	0%	4	4	3	3	14	0.384	0.367	0.449	4	4	3	3	14	0.384	0.367	0.449						
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.019	*	0.000	***	0.000	***	4	4	3	3	14	0.019	*	0.000	***	0.000	***
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.058	0.063	0.037	*	4	4	3	3	14	0.058	0.063	0.037	*				
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	0%	4	4	3	3	14	0.139	0.032	*	0.069	4	4	3	3	14	0.139	0.032	*	0.069				
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	36%	4	4	3	3	14	0.058	0.094	0.033	*	4	3	0	2	9	0.086	0.203	0.075					
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	36%	4	4	3	3	14	0.025	*	0.017	*	0.002	**	2	1	3	3	9	0.159	0.343	0.104			
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.829	0.826	0.878	4	4	3	3	14	0.829	0.826	0.878						
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	43%	4	4	3	3	14	0.562	0.505	0.450	1	2	3	2	8	0.577	0.779	0.765						
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.041	*	0.014	*	0.014	*	4	4	3	3	14	0.041	*	0.014	*	0.014	*
22_2_4_117	MW-12	Appendix IV	Mercury	mg/L	86%	4	4	3	3	14	0.475	0.525	0.525	0	1	0	1	2	0.317	NA	NA						
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	0%	4	4	3	3	14	0.048	*	0.044	*	0.022	*	4	4	3	3	14	0.048	*	0.044	*	0.022	*
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	69%	3	4	3	3	13	0.559	0.419	0.465	0	3	0	1	4	0.655	0.631	0.666						
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	0%	4	4	3	3	14	0.026	*	0.030	*	0.001	***	4	4	3	3	14	0.026	*	0.030	*	0.001	***
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
22_2_5_111	MW-12	Part 115	Copper	mg/L	0%	4	4	3	3	14	0.652	0.763	0.648	4	4	3	3	14	0.652	0.763	0.648						
22_2_5_114	MW-12	Part 115	Iron	mg/L	43%	4	4	3	3	14	0.017	*	0.033	*	0.006	**	2	1	3	2	8	0.172	0.449	0.273			
22_2_5_119	MW-12	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.107	0.104	0.119	4	4	3	3	14	0.107	0.104	0.119						
22_2_5_123	MW-12	Part 115	Silver	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	43%	4	4	3	3	14	0.152	0.347	0.240	1	3	3	1	8	0.189	0.093	0.135						
22_2_5_129	MW-12	Part 115	Zinc	mg/L	0%	4	4	3	3	14	0.232	0.286	0.319	4	4	3	3	14	0.232	0.286	0.319						
28_1_3_105	MW-18	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.804	0.894	0.846	4	4	3	3	14	0.804	0.894	0.846						
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.029	*	0.016	*	0.014	*	4	4	3	3	14	0.029	*	0.016	*	0.014	*
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.039	*	0.008	**	0.003	**	4	4	3	3	14	0.039	*	0.008	**	0.003	**
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.043	*	0.015	*	0.023	*	4	4	3	3	14	0.043	*	0.015	*	0.023	*

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects													
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
28_1_3_120	MW-18	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.371	0.357	0.362	4	4	3	3	14	0.371	0.357	0.362						
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.408	0.413	0.573	4	4	3	3	14	0.408	0.413	0.573						
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.106	0.085	0.080	4	4	3	3	14	0.106	0.085	0.080						
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	21%	4	4	3	3	14	0.020	*	0.151	0.051	3	3	2	3	11	0.056	0.217	0.140					
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.026	*	0.007	**	0.011	*	4	4	3	3	14	0.026	*	0.007	**	0.011	*
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.044	*	0.011	*	0.013	*	4	4	3	3	14	0.044	*	0.011	*	0.013	*
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	86%	4	4	3	3	14	0.652	0.571	0.573	1	1	0	0	2	0.317	NA	NA						
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	43%	4	4	3	3	14	0.504	0.633	0.542	2	3	2	1	8	0.943	0.942	0.915						
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	93%	4	4	3	3	14	0.714	0.810	0.822	0	1	0	0	1	NA	NA	NA						
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.483	0.544	0.559	4	4	3	3	14	0.483	0.544	0.559						
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.043	*	0.015	*	0.023	*	4	4	3	3	14	0.043	*	0.015	*	0.023	*
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	64%	4	4	3	3	14	0.659	0.430	0.603	0	0	3	2	5	0.076	0.397	0.353						
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.056	0.009	**	0.019	*	4	4	3	3	14	0.056	0.009	**	0.019	*		
28_1_4_117	MW-18	Appendix IV	Mercury	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	0%	4	4	3	3	14	0.055	0.008	**	0.012	*	4	4	3	3	14	0.055	0.008	**	0.012	*		
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	62%	3	4	3	3	13	0.176	0.478	0.393	0	2	1	2	5	0.741	0.814	0.878						
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	0%	4	4	3	3	14	0.187	0.263	0.144	4	4	3	3	14	0.187	0.263	0.144						
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	0.341	0.374	0.374	NA	NA	NA	NA	NA	NA	NA	NA						
28_1_5_111	MW-18	Part 115	Copper	mg/L	0%	4	4	3	3	14	0.041	*	0.197	0.091	4	4	3	3	14	0.041	*	0.197	0.091				
28_1_5_114	MW-18	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.048	*	0.023	*	0.018	*	4	4	3	3	14	0.048	*	0.023	*	0.018	*
28_1_5_119	MW-18	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.325	0.491	0.477	4	4	3	3	14	0.325	0.491	0.477						
28_1_5_123	MW-18	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.341	0.374	0.374	NA	NA	NA	NA	NA	NA	NA	NA						
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA						
28_1_5_129	MW-18	Part 115	Zinc	mg/L	0%	4	4	3	3	14	0.480	0.494	0.346	4	4	3	3	14	0.480	0.494	0.346						
29_1_3_105	MW-19	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.013	*	0.000	***	0.000	***	4	4	3	3	14	0.013	*	0.000	***	0.000	***
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.129	0.151	0.148	4	4	3	3	14	0.129	0.151	0.148						
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.237	0.333	0.404	4	4	3	3	14	0.237	0.333	0.404						
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.262	0.323	0.324	4	4	3	3	14	0.262	0.323	0.324						
29_1_3_120	MW-19	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.265	0.234	0.232	4	4	3	3	14	0.265	0.234	0.232						
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.182	0.388	0.403	4	4	3	3	14	0.182	0.388	0.403						
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.180	0.240	0.217	4	4	3	3	14	0.180	0.240	0.217						
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	86%	4	4	3	3	14	0.526	0.283	0.391	1	1	0	0	2	0.317	NA	NA						
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.019	*	0.002	**	0.009	**	4	4	3	3	14	0.019	*	0.002	**	0.009	**
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.174	0.138	0.129	4	4	3	3	14	0.174	0.138	0.129						
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	21%	4	4	3	3	14	0.553	0.609	0.671	3	4	3	1	11	0.291	0.075	0.134						
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	100%	4	4	3	3	14	0.680	0.573	0.695	NA	NA	NA	NA	NA	NA	NA	NA						
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	36%	4	4	3	3	14	0.558	0.410	0.542	2	2	3	2	9	0.928	0.841	0.949						
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	7%	4	4	3	3	14	0.185	0.170	0.172	4	4	2	3	13	0.220	0.241	0.155						
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.262	0.323	0.324	4	4	3	3	14	0.262	0.323	0.324						

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects													
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	100%	4	4	3	3	14	0.486	0.402	0.547	NA	NA	NA	NA	NA	NA	NA	NA	NA					
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.952	0.992	0.981	4	4	3	3	14	0.952	0.992	0.981						
29_1_4_117	MW-19	Appendix IV	Mercury	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA	NA					
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	0%	4	4	3	3	14	0.416	0.733	0.725	4	4	3	3	14	0.416	0.733	0.725						
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	38%	3	4	3	3	13	0.975	0.942	0.924	3	4	1	0	8	0.297	0.388	0.468						
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	71%	4	4	3	3	14	0.306	0.496	0.423	2	0	1	1	4	0.325	0.106	0.133						
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	0.671	0.723	0.723	NA	NA	NA	NA	NA	NA	NA	NA	NA					
29_1_5_111	MW-19	Part 115	Copper	mg/L	86%	4	4	3	3	14	0.780	0.586	0.630	0	1	1	0	2	0.317	NA	NA	NA					
29_1_5_114	MW-19	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.145	0.096	0.076	4	4	3	3	14	0.145	0.096	0.076						
29_1_5_119	MW-19	Part 115	Nickel	mg/L	7%	4	4	3	3	14	0.789	0.465	0.769	3	4	3	3	13	0.915	0.502	0.775						
29_1_5_123	MW-19	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.272	0.292	0.292	NA	NA	NA	NA	NA	NA	NA	NA	NA					
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	100%	4	4	3	3	14	0.475	0.525	0.525	NA	NA	NA	NA	NA	NA	NA	NA	NA					
29_1_5_129	MW-19	Part 115	Zinc	mg/L	71%	4	4	3	3	14	0.408	0.408	0.481	1	1	0	2	4	0.259	0.121	0.178						
30_1_3_105	MW-20	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.017	*	0.000	***	0.000	***	4	4	3	3	14	0.017	*	0.000	***	0.000	***
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.056	0.068	0.091	4	4	3	3	14	0.056	0.068	0.091						
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.127	0.082	0.112	4	4	3	3	14	0.127	0.082	0.112						
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.976	0.857	0.998	4	4	3	3	14	0.976	0.857	0.998						
30_1_3_120	MW-20	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.261	0.198	0.201	4	4	3	3	14	0.261	0.198	0.201						
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.024	*	0.009	**	0.001	**	4	4	3	3	14	0.024	*	0.009	**	0.001	**
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.057	0.031	*	0.047	*	4	4	3	3	14	0.057	0.031	*	0.047	*		
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	29%	4	4	3	3	14	0.580	0.570	0.493	3	2	3	2	10	0.698	0.665	0.589						
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.012	*	0.000	***	0.000	***	4	4	3	3	14	0.012	*	0.000	***	0.000	***
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.028	*	0.008	**	0.006	**	4	4	3	3	14	0.028	*	0.008	**	0.006	**
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	93%	4	4	3	3	14	0.475	0.525	0.525	1	0	0	0	1	NA	NA	NA						
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	100%	4	4	3	3	14	0.529	0.582	0.582	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	43%	4	4	3	3	14	0.474	0.333	0.356	2	3	1	2	8	0.418	0.458	0.448						
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.482	0.606	0.634	4	4	3	3	14	0.482	0.606	0.634						
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.976	0.857	0.998	4	4	3	3	14	0.976	0.857	0.998						
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	0%	4	4	3	3	14	0.165	0.188	0.174	4	4	3	3	14	0.165	0.188	0.174						
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.055	0.019	*	0.028	*	4	4	3	3	14	0.055	0.019	*	0.028	*		
30_1_4_117	MW-20	Appendix IV	Mercury	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	0%	4	4	3	3	14	0.168	0.157	0.132	4	4	3	3	14	0.168	0.157	0.132						
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	54%	3	4	3	3	13	0.959	0.716	0.788	1	2	1	2	6	0.733	0.811	0.805						
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	57%	4	4	3	3	14	0.167	0.196	0.179	1	2	2	1	6	0.199	0.004	**	0.011	*				
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	93%	4	4	3	3	14	0.475	0.525	0.525	1	0	0	0	1	NA	NA	NA						
30_1_5_111	MW-20	Part 115	Copper	mg/L	14%	4	4	3	3	14	0.102	0.180	0.119	3	3	3	3	12	0.197	0.382	0.301						
30_1_5_114	MW-20	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.032	*	0.019	*	0.027	*	4	4	3	3	14	0.032	*	0.019	*	0.027	*
30_1_5_119	MW-20	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.361	0.433	0.414	4	4	3	3	14	0.361	0.433	0.414						
30_1_5_123	MW-20	Part 115	Silver	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA	NA					

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects													
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_1_5_129	MW-20	Part 115	Zinc	mg/L	0%	4	4	3	3	14	0.197	0.107	0.089	4	4	3	3	14	0.197	0.107	0.089						
40_1_3_105	MW-30	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.443	0.711	0.706	4	4	3	3	14	0.443	0.711	0.706						
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.673	0.655	0.648	4	4	3	3	14	0.673	0.655	0.648						
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.310	0.478	0.321	4	4	3	3	14	0.310	0.478	0.321						
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.522	0.759	0.693	4	4	3	3	14	0.522	0.759	0.693						
40_1_3_120	MW-30	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.323	0.316	0.318	4	4	3	3	14	0.323	0.316	0.318						
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.081	0.006	**	0.008	**	4	4	3	3	14	0.081	0.006	**	0.008	**		
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.283	0.534	0.499	4	4	3	3	14	0.283	0.534	0.499						
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	86%	4	4	3	3	14	0.521	0.447	0.517	1	1	0	0	2	0.317	NA	NA						
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14%	4	4	3	3	14	0.113	0.371	0.179	3	3	3	3	12	0.248	0.430	0.428						
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.031	*	0.009	**	0.007	**	4	4	3	3	14	0.031	*	0.009	**	0.007	**
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	86%	4	4	3	3	14	0.006	**	0.041	*	0.019	*	2	0	0	0	2	NA	NA	NA			
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	100%	4	4	3	3	14	0.461	0.280	0.452	NA	NA	NA	NA	NA	NA	NA	NA	NA					
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.122	0.110	0.148	4	4	3	3	14	0.122	0.110	0.148						
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.111	0.453	0.198	4	4	3	3	14	0.111	0.453	0.198						
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.522	0.759	0.693	4	4	3	3	14	0.522	0.759	0.693						
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	93%	4	4	3	3	14	0.940	0.957	0.939	0	0	0	1	1	NA	NA	NA						
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.749	0.883	0.962	4	4	3	3	14	0.749	0.883	0.962						
40_1_4_117	MW-30	Appendix IV	Mercury	mg/L	93%	4	4	3	3	14	0.475	0.525	0.525	0	1	0	0	1	NA	NA	NA						
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	21%	4	4	3	3	14	0.104	0.304	0.113	3	3	3	2	11	0.294	0.364	0.234						
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	54%	3	4	3	3	13	0.634	0.403	0.423	2	1	3	0	6	0.538	0.388	0.378						
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	50%	4	4	3	3	14	0.051	0.073	0.018	*	1	1	3	2	7	0.206	0.072	0.145					
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	0.370	0.408	0.408	NA	NA	NA	NA	NA	NA	NA	NA						
40_1_5_111	MW-30	Part 115	Copper	mg/L	71%	4	4	3	3	14	0.051	0.086	0.062	2	1	0	1	4	0.407	0.398	0.496						
40_1_5_114	MW-30	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.053	0.091	0.039	*	4	4	3	3	14	0.053	0.091	0.039	*				
40_1_5_119	MW-30	Part 115	Nickel	mg/L	21%	4	4	3	3	14	0.044	*	0.478	0.093	3	4	3	1	11	0.263	0.481	0.263					
40_1_5_123	MW-30	Part 115	Silver	mg/L	100%	4	4	3	3	14	0.115	0.095	0.095	NA	NA	NA	NA	NA	NA	NA	NA						
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	100%	4	4	3	3	14	0.144	0.131	0.131	NA	NA	NA	NA	NA	NA	NA	NA						
40_1_5_129	MW-30	Part 115	Zinc	mg/L	71%	4	4	3	3	14	0.356	0.507	0.442	1	1	0	2	4	0.407	0.017	*	0.123					
41_1_3_105	MW-31	Appendix III	Boron	mg/L	0%	5	4	3	2	14	0.030	*	0.006	**	0.010	**	5	4	3	2	14	0.030	*	0.006	**	0.010	**
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	0%	5	4	3	2	14	0.216	0.160	0.155	5	4	3	2	14	0.216	0.160	0.155						
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	0%	5	4	3	2	14	0.037	*	0.034	*	0.026	*	5	4	3	2	14	0.037	*	0.034	*	0.026	*
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	0%	5	4	3	2	14	0.159	0.245	0.251	5	4	3	2	14	0.159	0.245	0.251						
41_1_3_120	MW-31	Appendix III	pH (field)	su	0%	5	4	3	2	14	0.499	0.665	0.661	5	4	3	2	14	0.499	0.665	0.661						
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	0%	5	4	3	2	14	0.061	0.027	*	0.011	*	5	4	3	2	14	0.061	0.027	*	0.011	*		
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	0%	5	4	3	2	14	0.173	0.333	0.299	5	4	3	2	14	0.173	0.333	0.299						
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	43%	5	4	3	2	14	0.448	0.861	0.777	3	2	2	1	8	0.694	0.859	0.806						
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	0%	5	4	3	2	14	0.279	0.321	0.297	5	4	3	2	14	0.279	0.321	0.297						

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects													
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	0%	5	4	3	2	14	0.090	0.115	0.093	5	4	3	2	14	0.090	0.115	0.093						
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	86%	5	4	3	2	14	0.324	0.094	0.096	1	0	0	1	2	0.317	NA	NA						
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	93%	5	4	3	2	14	0.510	0.349	0.317	1	0	0	0	1	NA	NA	NA						
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	0%	5	4	3	2	14	0.124	0.075	0.082	5	4	3	2	14	0.124	0.075	0.082						
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	14%	5	4	3	2	14	0.943	0.571	0.762	4	3	3	2	12	0.861	0.613	0.701						
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	0%	5	4	3	2	14	0.159	0.245	0.251	5	4	3	2	14	0.159	0.245	0.251						
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	86%	5	4	3	2	14	0.418	0.389	0.387	0	1	1	0	2	0.317	NA	NA						
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	0%	5	4	3	2	14	0.217	0.244	0.274	5	4	3	2	14	0.217	0.244	0.274						
41_1_4_117	MW-31	Appendix IV	Mercury	mg/L	100%	5	4	3	2	14	NA	0.668	0.668	NA	NA	NA	NA	NA	NA	NA	NA						
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	0%	5	4	3	2	14	0.246	0.351	0.325	5	4	3	2	14	0.246	0.351	0.325						
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	31%	4	4	3	2	13	0.920	0.770	0.806	3	3	3	0	9	0.837	0.827	0.864						
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	43%	5	4	3	2	14	0.337	0.451	0.345	1	2	3	2	8	0.274	0.000	***	0.003	**				
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	93%	5	4	3	2	14	0.615	0.668	0.668	1	0	0	0	1	NA	NA	NA						
41_1_5_111	MW-31	Part 115	Copper	mg/L	64%	5	4	3	2	14	0.634	0.523	0.530	1	2	1	1	5	0.532	0.861	0.829						
41_1_5_114	MW-31	Part 115	Iron	mg/L	0%	5	4	3	2	14	0.374	0.344	0.384	5	4	3	2	14	0.374	0.344	0.384						
41_1_5_119	MW-31	Part 115	Nickel	mg/L	71%	5	4	3	2	14	0.486	0.662	0.611	2	0	1	1	4	0.407	0.819	0.821						
41_1_5_123	MW-31	Part 115	Silver	mg/L	100%	5	4	3	2	14	NA	0.668	0.668	NA	NA	NA	NA	NA	NA	NA	NA	NA					
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	86%	5	4	3	2	14	0.227	0.098	0.100	0	0	1	1	2	0.317	NA	NA						
41_1_5_129	MW-31	Part 115	Zinc	mg/L	64%	5	4	3	2	14	0.589	0.672	0.659	2	2	0	1	5	0.674	0.645	0.627						
42_1_3_105	MW-32	Appendix III	Boron	mg/L	0%	4	4	3	3	14	0.018	*	0.001	***	0.000	***	4	4	3	3	14	0.018	*	0.001	***	0.000	***
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	0%	4	4	3	3	14	0.036	*	0.008	**	0.005	**	4	4	3	3	14	0.036	*	0.008	**	0.005	**
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	0%	4	4	3	3	14	0.275	0.309	0.331	4	4	3	3	14	0.275	0.309	0.331						
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	0%	4	4	3	3	14	0.173	0.064	0.078	4	4	3	3	14	0.173	0.064	0.078						
42_1_3_120	MW-32	Appendix III	pH (field)	su	0%	4	4	3	3	14	0.733	0.743	0.745	4	4	3	3	14	0.733	0.743	0.745						
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	0%	4	4	3	3	14	0.022	*	0.002	**	0.022	*	4	4	3	3	14	0.022	*	0.002	**	0.022	*
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	0%	4	4	3	3	14	0.028	*	0.003	**	0.003	**	4	4	3	3	14	0.028	*	0.003	**	0.003	**
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	71%	4	4	3	3	14	0.803	0.686	0.966	1	2	0	1	4	0.259	0.091	0.249						
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	0%	4	4	3	3	14	0.127	0.666	0.751	4	4	3	3	14	0.127	0.666	0.751						
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	0%	4	4	3	3	14	0.131	0.137	0.454	4	4	3	3	14	0.131	0.137	0.454						
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	93%	4	4	3	3	14	0.475	0.525	0.525	1	0	0	0	1	NA	NA	NA						
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	93%	4	4	3	3	14	0.714	0.804	0.810	1	0	0	0	1	NA	NA	NA						
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	0%	4	4	3	3	14	0.122	0.386	0.229	4	4	3	3	14	0.122	0.386	0.229						
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	0%	4	4	3	3	14	0.213	0.644	0.556	4	4	3	3	14	0.213	0.644	0.556						
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	0%	4	4	3	3	14	0.173	0.064	0.078	4	4	3	3	14	0.173	0.064	0.078						
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	71%	4	4	3	3	14	0.409	0.378	0.387	1	1	1	1	4	0.392	NA	NA						
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	0%	4	4	3	3	14	0.013	*	0.000	***	0.000	***	4	4	3	3	14	0.013	*	0.000	***	0.000	***
42_1_4_117	MW-32	Appendix IV	Mercury	mg/L	93%	4	4	3	3	14	0.475	0.525	0.525	0	1	0	0	1	NA	NA	NA						
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	0%	4	4	3	3	14	0.234	0.648	0.602	4	4	3	3	14	0.234	0.648	0.602						
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	62%	3	4	3	3	13	0.206	0.259	0.226	0	2	1	2	5	0.165	0.004	**	0.004	**				

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full							Without Non-Detects								
						Sample Size					p-Value			Sample Size					p-Value		
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	79%	4	4	3	3	14	0.196	0.394	0.256	1	1	0	1	3	0.368	NA	NA
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	57%	4	4	3	3	14	0.288	0.532	0.587	2	1	1	2	6	0.463	0.752	0.797
42_1_5_114	MW-32	Part 115	Iron	mg/L	0%	4	4	3	3	14	0.195	0.137	0.112	4	4	3	3	14	0.195	0.137	0.112
42_1_5_119	MW-32	Part 115	Nickel	mg/L	0%	4	4	3	3	14	0.667	0.502	0.453	4	4	3	3	14	0.667	0.502	0.453
42_1_5_123	MW-32	Part 115	Silver	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	100%	4	4	3	3	14	NA	0.325	0.325	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_129	MW-32	Part 115	Zinc	mg/L	0%	4	4	3	3	14	0.339	0.476	0.357	4	4	3	3	14	0.339	0.476	0.357

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 8: Trend Tests: Lognormal MLE and MK

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000229	0.588	↔
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000343	0.302	↔
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000955	0.842	↔
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	14	0	0%	Nonparametric	MK	0.00178	0.465	↔
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0	0%	Nonparametric	MK	-0.0000140	0.869	↔
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00120	0.341	↔
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000439	0.431	↔
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	3	21%	Parametric	Lognormal MLE	-0.000930	0.102	↔
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000190	0.655	↔
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000516	0.088	↔
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14	2	14%	Parametric	Lognormal MLE	-0.00169	0.003	↓
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000597	0.425	↔
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000419	0.468	↔
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Nonparametric	MK	0.00178	0.465	↔
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	2	14%	Parametric	Lognormal MLE	-0.000339	0.638	↔
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000123	0.775	↔
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	1	7%	Parametric	Lognormal MLE	-0.000386	0.633	↔
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000331	0.401	↔
11_2_5_111	MW-01R	Part 115	Copper	mg/L	14	5	36%	Nonparametric	MK	0.000000172	0.048	↔
11_2_5_114	MW-01R	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00232	0.001	↓
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0	0%	Nonparametric	MK	0.000000183	0.956	↔
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14	2	14%	Parametric	Lognormal MLE	0.00161	0.018	↔
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	14	3	21%	Nonparametric	MK	0	0.607	↔
12_2_3_105	MW-02	Appendix III	Boron	mg/L	14	0	0%	Nonparametric	MK	0.0429	0.002	↑
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000973	0.251	↔
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Nonparametric	MK	0	0.257	↔
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0	0%	Nonparametric	MK	0.00266	0.005	↑
12_2_3_120	MW-02	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	-0.0000151	0.342	↔
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000341	0.000	↑
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	3	21%	Parametric	Lognormal MLE	-0.0000120	0.981	↔
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0	0%	Nonparametric	MK	-0.00000223	0.351	↔
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000485	0.011	↔
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	14	1	7%	Parametric	Lognormal MLE	-0.000969	0.112	↔
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000373	0.782	↔
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000195	0.984	↔
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Nonparametric	MK	0.00266	0.005	↑
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	14	1	7%	Parametric	Lognormal MLE	0.000268	0.809	↔
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000324	0.122	↔
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000699	0.869	↔
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	Parametric	Lognormal MLE	-0.00106	0.126	↔
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000731	0.049	↔
12_2_5_111	MW-02	Part 115	Copper	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000539	0.452	↔
12_2_5_114	MW-02	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000206	0.195	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
12_2_5_119	MW-02	Part 115	Nickel	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000147	0.880	↔
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	14	1	7%	Parametric	Lognormal MLE	0.000680	0.351	↔
12_2_5_129	MW-02	Part 115	Zinc	mg/L	14	0	0%	Nonparametric	MK	0.00000116	0.701	↔
13_2_3_105	MW-03	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000120	0.890	↔
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000186	0.064	↔
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000963	0.000	↓
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	14	0	0%	Nonparametric	MK	0.0000230	0.617	↔
13_2_3_120	MW-03	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	0.00000484	0.735	↔
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00137	0.132	↔
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Nonparametric	MK	-0.645	0.029	↔
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000216	0.488	↔
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000597	0.861	↔
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000488	0.049	↔
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000171	0.702	↔
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Nonparametric	MK	0.0000230	0.617	↔
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000591	0.000	↓
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	13	1	8%	Parametric	Lognormal MLE	-0.000847	0.019	↔
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	14	3	21%	Parametric	Lognormal MLE	0.000835	0.049	↔
13_2_5_114	MW-03	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00301	0.000	↓
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	1	7%	Nonparametric	MK	-0.000000842	0.272	↔
14_2_3_105	MW-04	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000119	0.149	↔
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000548	0.552	↔
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00124	0.000	↓
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000193	0.334	↔
14_2_3_120	MW-04	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	-0.0000248	0.099	↔
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Nonparametric	MK	0.305	0.016	↔
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00000443	0.959	↔
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000612	0.139	↔
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	14	0	0%	Nonparametric	MK	-0.0000351	0.339	↔
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000974	0.753	↔
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000987	0.013	↔
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000193	0.334	↔
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000318	0.181	↔
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	14	2	14%	Parametric	Lognormal MLE	0.00122	0.028	↔
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	Parametric	Lognormal MLE	-0.00133	0.000	↓
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	14	5	36%	Parametric	Lognormal MLE	0.000683	0.214	↔
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0	0%	Nonparametric	MK	-0.00122	0.408	↔
14_2_5_119	MW-04	Part 115	Nickel	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000633	0.295	↔
16_1_3_105	MW-06	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000124	0.486	↔
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000127	0.343	↔
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00162	0.005	↓
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000476	0.760	↔
16_1_3_120	MW-06	Appendix III	pH (field)	su	14	0	0%	Nonparametric	MK	0.000101	0.411	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	14	2	14%	Parametric	Lognormal MLE	-0.00135	0.375	↔
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Nonparametric	MK	0	0.048	↔
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000147	0.540	↔
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000600	0.656	↔
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000744	0.003	↓
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000671	0.001	↓
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000476	0.760	↔
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000487	0.014	↔
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	Parametric	Lognormal MLE	-0.000201	0.673	↔
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	5	36%	Nonparametric	MK	0	0.813	↔
16_1_5_114	MW-06	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000798	0.054	↔
16_1_5_119	MW-06	Part 115	Nickel	mg/L	14	5	36%	Parametric	Lognormal MLE	-0.000398	0.231	↔
16_1_5_129	MW-06	Part 115	Zinc	mg/L	14	2	14%	Nonparametric	MK	-0.000000568	0.315	↔
17_1_3_105	MW-07	Appendix III	Boron	mg/L	14	0	0%	Nonparametric	MK	0	0.406	↔
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000814	0.349	↔
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Nonparametric	MK	0	0.766	↔
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	14	3	21%	Parametric	Lognormal MLE	-0.000433	0.424	↔
17_1_3_120	MW-07	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	0.0000106	0.594	↔
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000390	0.241	↔
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Nonparametric	MK	0.138	0.023	↔
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000631	0.739	↔
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000268	0.007	↑
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000212	0.400	↔
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000531	0.681	↔
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	14	3	21%	Parametric	Lognormal MLE	-0.000433	0.424	↔
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000301	0.277	↔
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	2	15%	Parametric	Lognormal MLE	-0.000368	0.428	↔
17_1_5_114	MW-07	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000267	0.017	↔
18_1_3_105	MW-08	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000431	0.907	↔
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000209	0.012	↔
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Nonparametric	MK	0.0145	0.167	↔
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000153	0.676	↔
18_1_3_120	MW-08	Appendix III	pH (field)	su	14	0	0%	Nonparametric	MK	0.000106	0.661	↔
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	14	4	29%	Parametric	Lognormal MLE	0.00145	0.515	↔
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000112	0.315	↔
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	14	6	43%	Parametric	Lognormal MLE	-0.000229	0.715	↔
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000486	0.413	↔
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000257	0.050	↔
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000624	0.003	↓
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000322	0.926	↔
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000153	0.676	↔
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000354	0.130	↔
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000372	0.623	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	Parametric	Lognormal MLE	-0.000855	0.087	↔
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	14	5	36%	Parametric	Lognormal MLE	0.000787	0.083	↔
18_1_5_111	MW-08	Part 115	Copper	mg/L	14	5	36%	Parametric	Lognormal MLE	0.00173	0.002	↑
18_1_5_114	MW-08	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000441	0.075	↔
18_1_5_119	MW-08	Part 115	Nickel	mg/L	14	0	0%	Nonparametric	MK	0.00000322	0.121	↔
18_1_5_129	MW-08	Part 115	Zinc	mg/L	14	3	21%	Nonparametric	MK	0.000000407	0.783	↔
19_2_3_105	MW-09	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000355	0.716	↔
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000507	0.012	↔
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.00143	0.000	↑
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000442	0.679	↔
19_2_3_120	MW-09	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	-0.0000381	0.007	↓
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.00146	0.021	↔
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000616	0.004	↑
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	14	0	0%	Nonparametric	MK	0	0.780	↔
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00174	0.005	↓
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000244	0.286	↔
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000649	0.149	↔
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000442	0.679	↔
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000687	0.475	↔
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000248	0.469	↔
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	2	14%	Parametric	Lognormal MLE	0.00112	0.000	↑
19_2_5_114	MW-09	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000297	0.150	↔
19_2_5_119	MW-09	Part 115	Nickel	mg/L	14	0	0%	Nonparametric	MK	0.0000100	0.078	↔
20_3_3_105	MW-10	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000359	0.542	↔
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000618	0.077	↔
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.00141	0.002	↑
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000189	0.600	↔
20_3_3_120	MW-10	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	-0.0000441	0.389	↔
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000508	0.459	↔
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Nonparametric	MK	0.620	0.108	↔
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.00129	0.025	↔
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.00000932	0.981	↔
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000259	0.651	↔
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	1	7%	Parametric	Lognormal MLE	-0.00122	0.112	↔
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000189	0.600	↔
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000276	0.924	↔
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00170	0.002	↓
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	1	7%	Parametric	Lognormal MLE	-0.000133	0.725	↔
20_3_5_114	MW-10	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000368	0.282	↔
20_3_5_129	MW-10	Part 115	Zinc	mg/L	14	6	43%	Parametric	Lognormal MLE	-0.00155	0.406	↔
21_2_3_105	MW-11	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000227	0.735	↔
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000908	0.777	↔
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000246	0.310	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000340	0.588	↔
21_2_3_120	MW-11	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	-0.0000354	0.004	↓
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	14	5	36%	Parametric	Lognormal MLE	-0.0105	0.004	↓
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000764	0.736	↔
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000126	0.779	↔
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000153	0.962	↔
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	14	0	0%	Nonparametric	MK	-0.0000000404	0.869	↔
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000645	0.318	↔
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000340	0.588	↔
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000192	0.856	↔
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14	2	14%	Parametric	Lognormal MLE	-0.000167	0.814	↔
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	Parametric	Lognormal MLE	-0.00106	0.025	↔
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	3	21%	Nonparametric	MK	-0.0000000589	0.222	↔
21_2_5_111	MW-11	Part 115	Copper	mg/L	14	3	21%	Nonparametric	MK	-0.000000150	0.739	↔
21_2_5_114	MW-11	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000450	0.212	↔
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0	0%	Nonparametric	MK	0	0.868	↔
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	4	29%	Parametric	Lognormal MLE	-0.000406	0.855	↔
22_2_3_105	MW-12	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000453	0.085	↔
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000127	0.665	↔
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000159	0.950	↔
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000349	0.286	↔
22_2_3_120	MW-12	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	-0.000000537	0.991	↔
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00109	0.000	↓
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00000973	0.980	↔
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000117	0.979	↔
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000131	0.968	↔
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.00130	0.002	↑
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000780	0.165	↔
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	14	5	36%	Parametric	Lognormal MLE	-0.0000999	0.912	↔
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	14	5	36%	Parametric	Lognormal MLE	0.00119	0.323	↔
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000349	0.286	↔
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	14	6	43%	Parametric	Lognormal MLE	0.00139	0.040	↔
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000110	0.790	↔
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000363	0.282	↔
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000507	0.652	↔
22_2_5_111	MW-12	Part 115	Copper	mg/L	14	0	0%	Parametric	Lognormal MLE	0.00125	0.000	↑
22_2_5_114	MW-12	Part 115	Iron	mg/L	14	6	43%	Parametric	Lognormal MLE	0.00106	0.232	↔
22_2_5_119	MW-12	Part 115	Nickel	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000846	0.796	↔
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	14	6	43%	Parametric	Lognormal MLE	0.00127	0.050	↔
22_2_5_129	MW-12	Part 115	Zinc	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000275	0.556	↔
28_1_3_105	MW-18	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.00109	0.000	↑
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000312	0.870	↔
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000227	0.270	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000246	0.894	↔
28_1_3_120	MW-18	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	0.0000218	0.021	↔
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000112	0.671	↔
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000827	0.562	↔
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000610	0.017	↔
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000250	0.357	↔
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	14	6	43%	Parametric	Lognormal MLE	-0.00207	0.007	↓
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00123	0.000	↓
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000246	0.894	↔
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00000883	0.973	↔
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000420	0.101	↔
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000469	0.958	↔
28_1_5_111	MW-18	Part 115	Copper	mg/L	14	0	0%	Nonparametric	MK	0.000000137	0.291	↔
28_1_5_114	MW-18	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000118	0.620	↔
28_1_5_119	MW-18	Part 115	Nickel	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000843	0.002	↓
28_1_5_129	MW-18	Part 115	Zinc	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00106	0.002	↓
29_1_3_105	MW-19	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000128	0.516	↔
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000187	0.070	↔
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000944	0.000	↓
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000333	0.008	↓
29_1_3_120	MW-19	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	-0.0000220	0.374	↔
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000184	0.385	↔
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000358	0.000	↓
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000130	0.970	↔
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000230	0.077	↔
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	14	3	21%	Parametric	Lognormal MLE	0.000502	0.039	↔
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	14	5	36%	Parametric	Lognormal MLE	-0.000395	0.336	↔
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	14	1	7%	Parametric	Lognormal MLE	-0.00103	0.180	↔
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000333	0.008	↓
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000289	0.004	↓
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000233	0.568	↔
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	13	5	38%	Parametric	Lognormal MLE	-0.00111	0.040	↔
29_1_5_114	MW-19	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000427	0.016	↔
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	1	7%	Parametric	Lognormal MLE	0.00117	0.088	↔
30_1_3_105	MW-20	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000736	0.694	↔
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	14	0	0%	Nonparametric	MK	-0.0219	0.176	↔
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000818	0.001	↓
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0	0%	Nonparametric	MK	-0.0000297	0.509	↔
30_1_3_120	MW-20	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	0.0000159	0.285	↔
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00127	0.026	↔
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000246	0.038	↔
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	14	4	29%	Parametric	Lognormal MLE	0.000449	0.187	↔
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000484	0.813	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000565	0.852	↔
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	14	6	43%	Parametric	Lognormal MLE	0.0000193	0.931	↔
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000796	0.000	↓
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Nonparametric	MK	-0.0000297	0.509	↔
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000276	0.248	↔
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000527	0.051	↔
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000314	0.025	↔
30_1_5_111	MW-20	Part 115	Copper	mg/L	14	2	14%	Parametric	Lognormal MLE	0.000610	0.189	↔
30_1_5_114	MW-20	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000280	0.013	↔
30_1_5_119	MW-20	Part 115	Nickel	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000727	0.000	↓
30_1_5_129	MW-20	Part 115	Zinc	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000739	0.093	↔
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0	0%	Nonparametric	MK	-0.000442	0.143	↔
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0	0%	Nonparametric	MK	0	1.000	↔
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Nonparametric	MK	-0.00649	0.656	↔
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	14	0	0%	Nonparametric	MK	0	1.000	↔
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	-0.00000760	0.801	↔
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000221	0.332	↔
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Nonparametric	MK	0	0.655	↔
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	2	14%	Parametric	Lognormal MLE	0.00197	0.010	↔
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000617	0.850	↔
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000747	0.071	↔
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	14	0	0%	Nonparametric	MK	-0.000000167	0.700	↔
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Nonparametric	MK	0	1.000	↔
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000123	0.624	↔
40_1_5_114	MW-30	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000407	0.541	↔
41_1_3_105	MW-31	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000266	0.032	↔
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000138	0.246	↔
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000106	0.908	↔
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000144	0.004	↓
41_1_3_120	MW-31	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	0.0000164	0.237	↔
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00151	0.000	↓
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000168	0.006	↓
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	14	6	43%	Parametric	Lognormal MLE	0.00263	0.000	↑
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000316	0.075	↔
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000313	0.216	↔
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000321	0.155	↔
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	14	2	14%	Parametric	Lognormal MLE	-0.000403	0.383	↔
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000144	0.004	↓
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000108	0.435	↔
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000470	0.140	↔
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	Parametric	Lognormal MLE	-0.000399	0.395	↔
41_1_5_114	MW-31	Part 115	Iron	mg/L	14	0	0%	Nonparametric	MK	-0.00251	0.002	↓
42_1_3_105	MW-32	Appendix III	Boron	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000285	0.187	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000272	0.050	↔
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.0000516	0.611	↔
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000101	0.931	↔
42_1_3_120	MW-32	Appendix III	pH (field)	su	14	0	0%	Parametric	Lognormal MLE	0.00000372	0.712	↔
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.00274	0.003	↓
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000273	0.022	↔
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0	0%	Nonparametric	MK	0.0000000948	0.411	↔
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000694	0.345	↔
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	14	0	0%	Nonparametric	MK	-0.000000230	0.099	↔
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000191	0.973	↔
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	Parametric	Lognormal MLE	0.0000101	0.931	↔
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	14	0	0%	Parametric	Lognormal MLE	0.000136	0.571	↔
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000242	0.340	↔
42_1_5_114	MW-32	Part 115	Iron	mg/L	14	0	0%	Parametric	Lognormal MLE	-0.000453	0.008	↓
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0	0%	Nonparametric	MK	-0.000000724	0.018	↔
42_1_5_129	MW-32	Part 115	Zinc	mg/L	14	0	0%	Nonparametric	MK	0.00000370	0.380	↔

Table 9: Trend Tests: Piecewise Linear-Linear

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	14	0	0%	0.158	0.487	↔	-0.00589	0.945	↔	2023-07-03	0.095	↔
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	14	0	0%	0.0879	0.673	↔	-0.407	0.274	↔	2024-04-09	0.166	↔
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.133	0.657	↔	-0.0693	0.544	↔	2023-08-07	0.057	↔
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	14	0	0%	-0.00784	0.387	↔	0.0203	0.208	↔	2024-02-29	0.247	↔
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0	0%	0.00515	0.404	↔	-0.0000849	0.901	↔	2023-04-10	0.217	↔
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.0656	0.921	↔	-1.18	0.586	↔	2024-04-10	0.120	↔
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.469	0.448	↔	-0.160	0.654	↔	2023-10-23	0.127	↔
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	3	21%	0.00000316	0.199	↔	-0.000000820	0.068	↔	2023-04-18	0.379	↔
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0	0%	0.00000257	0.228	↔	-0.00000318	0.382	↔	2024-02-13	0.199	↔
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	14	0	0%	0.000620	0.106	↔	-0.000142	0.693	↔	2023-10-24	0.329	↔
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14	2	14%	0.000000205	0.660	↔	-0.000000398	0.043	↔	2023-08-07	0.456	↔
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	14	11	79%	0.00000109	0.216	↔	-0.000000293	0.200	↔	2023-05-23	0.267	↔
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.0000225	0.204	↔	-0.0000265	0.141	↔	2024-02-12	0.335	↔
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000731	0.287	↔	-0.00000271	0.298	↔	2023-06-28	0.199	↔
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00784	0.387	↔	0.0203	0.208	↔	2024-02-29	0.247	↔
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	2	14%	0.00000636	0.483	↔	-0.00000282	0.239	↔	2023-06-27	0.174	↔
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	14	0	0%	-0.000554	0.802	↔	0.00254	0.512	↔	2024-04-09	0.064	↔
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	1	7%	0.00000432	0.243	↔	-0.00000730	0.256	↔	2024-02-13	0.242	↔
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	-0.000276	0.686	↔	0.00203	0.344	↔	2024-04-09	0.145	↔
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0	0%	0.00000126	0.292	↔	-0.00000131	0.274	↔	2024-02-12	0.243	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	14	14	100%	0.00000339	0.272	↔	0.000000853	0.668	↔	2023-02-08	0.283	↔
11_2_5_111	MW-01R	Part 115	Copper	mg/L	14	5	36%	0.00000257	0.182	↔	-0.000000485	0.492	↔	2023-06-28	0.234	↔
11_2_5_114	MW-01R	Part 115	Iron	mg/L	14	0	0%	-0.000253	0.693	↔	-0.00175	0.406	↔	2024-04-10	0.342	↔
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0	0%	0.0000209	0.126	↔	-0.0000265	0.252	↔	2024-02-13	0.299	↔
11_2_5_123	MW-01R	Part 115	Silver	mg/L	14	14	100%	0.00000195	0.615	↔	-0.000000175	0.156	↔	2023-02-07	0.242	↔
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14	2	14%	0.0000134	0.042	↔	-0.00000130	0.565	↔	2023-06-28	0.473	↔
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	14	3	21%	-0.0000126	0.242	↔	0.000138	0.002	↑	2024-06-12	0.795	↔
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	14	0	0%	0.00701	0.846	↔	-0.0886	0.454	↔	2024-04-23	0.179	↔
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.389	0.640	↔	0.0483	0.092	↔	2023-02-07	0.280	↔
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0	0%	0.00305	0.218	↔	0.0376	0.037	↔	2024-10-01	0.691	↔
12_2_3_120	MW-02	Appendix III	pH (field)	su	14	0	0%	0.00301	0.159	↔	-0.000260	0.079	↔	2023-02-17	0.406	↔
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	14	9	64%	-0.00562	0.658	↔	0.00359	0.127	↔	2023-04-30	0.263	↔
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	3	21%	0.00000177	0.331	↔	-0.000000334	0.119	↔	2023-04-17	0.312	↔
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0	0%	-0.0000107	0.097	↔	0.0000101	0.344	↔	2024-02-13	0.315	↔
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	14	0	0%	0.0000802	0.738	↔	-0.000619	0.158	↔	2024-02-13	0.377	↔
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	14	1	7%	-0.000000315	0.253	↔	0.000000147	0.865	↔	2024-06-03	0.202	↔
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	14	10	71%	0.00000121	0.219	↔	-0.000000283	0.261	↔	2023-05-23	0.243	↔
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.0000485	0.468	↔	0.0000855	0.213	↔	2024-02-12	0.190	↔
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	14	0	0%	-0.00000512	0.420	↔	0.0000125	0.264	↔	2024-02-13	0.220	↔
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00305	0.218	↔	0.0376	0.037	↔	2024-10-01	0.691	↔
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.00000728	0.050	↔	0.0000842	0.003	↑	2024-09-28	0.719	↔
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	-0.00413	0.113	↔	0.00144	0.713	↔	2024-01-15	0.459	↔
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0	0%	0.000000507	0.404	↔	0.00000677	0.116	↔	2024-10-08	0.504	↔
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	14	13	93%	0.00000259	0.735	↔	0.000000139	0.575	↔	2023-02-07	0.159	↔
12_2_5_114	MW-02	Part 115	Iron	mg/L	14	0	0%	0.0407	0.611	↔	-0.00805	0.154	↔	2023-03-13	0.213	↔
12_2_5_119	MW-02	Part 115	Nickel	mg/L	14	0	0%	-0.0000198	0.245	↔	0.000263	0.035	↔	2024-09-25	0.519	↔
12_2_5_123	MW-02	Part 115	Silver	mg/L	14	14	100%	0.00000176	0.286	↔	-0.000000199	0.088	↔	2023-02-08	0.327	↔
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	14	1	7%	0.0000107	0.314	↔	0.000000400	0.919	↔	2023-06-27	0.212	↔
12_2_5_129	MW-02	Part 115	Zinc	mg/L	14	0	0%	-0.0000209	0.207	↔	0.000148	0.014	↔	2024-06-14	0.625	↔
13_2_3_105	MW-03	Appendix III	Boron	mg/L	14	0	0%	0.000869	0.468	↔	-0.00113	0.349	↔	2023-12-30	0.134	↔
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	14	0	0%	0.215	0.385	↔	-0.130	0.059	↔	2023-06-01	0.384	↔
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.808	0.040	↔	-0.0815	0.061	↔	2023-04-15	0.810	↔
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	14	0	0%	-0.00372	0.289	↔	0.000112	0.771	↔	2023-04-06	0.282	↔
13_2_3_120	MW-03	Appendix III	pH (field)	su	14	0	0%	0.00118	0.605	↔	-0.0000493	0.742	↔	2023-03-12	0.112	↔
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	3.72	0.024	↔	-0.894	0.000	↓	2023-04-17	0.803	↔
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2.23	0.132	↔	-1.03	0.002	↓	2023-04-30	0.698	↔
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	14	8	57%	0.00000211	0.172	↔	-0.000000468	0.092	↔	2023-05-03	0.372	↔
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	14	0	0%	-0.00000191	0.449	↔	0.000000459	0.304	↔	2023-04-28	0.153	↔
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	14	0	0%	0.000237	0.587	↔	-0.000262	0.313	↔	2023-10-12	0.135	↔
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	14	9	64%	0.000000917	0.532	↔	-0.0000000631	0.517	↔	2023-02-07	0.086	↔
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	14	13	93%	0.00000101	0.361	↔	-0.000000195	0.315	↔	2023-05-22	0.213	↔
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.00000381	0.389	↔	-0.00000123	0.776	↔	2023-10-24	0.233	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000132	0.387	↔	-0.00000117	0.200	↔	2023-10-23	0.213	↔
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00372	0.289	↔	0.000112	0.771	↔	2023-04-06	0.282	↔
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	14	13	93%	0.0000104	0.363	↔	-0.000000975	0.019	↔	2023-02-06	0.504	↔
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	14	0	0%	-0.0000414	0.134	↔	0.00000225	0.931	↔	2024-02-08	0.503	↔
13_2_4_117	MW-03	Appendix IV	Mercury	mg/L	14	13	93%	0.000000111	0.246	↔	-0.0000000764	0.176	↔	2023-10-23	0.277	↔
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	14	10	71%	0.0000139	0.721	↔	-0.00000205	0.121	↔	2023-02-06	0.233	↔
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	13	1	8%	-0.0162	0.205	↔	-0.000749	0.146	↔	2023-01-09	0.539	↔
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	14	3	21%	-0.000000827	0.725	↔	0.000000187	0.650	↔	2023-05-22	0.040	↔
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	14	13	93%	0.00000408	0.117	↔	-0.000000272	0.115	↔	2023-02-24	0.470	↔
13_2_5_114	MW-03	Part 115	Iron	mg/L	14	0	0%	-0.0220	0.004	↓	0.0000513	0.974	↔	2023-06-07	0.792	↔
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	1	7%	-0.0000407	0.225	↔	-0.000000212	0.970	↔	2023-04-23	0.298	↔
13_2_5_123	MW-03	Part 115	Silver	mg/L	14	14	100%	0.00000194	0.320	↔	-0.000000173	0.190	↔	2023-02-07	0.238	↔
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	14	9	64%	-0.00000202	0.728	↔	0.00000143	0.351	↔	2023-06-12	0.112	↔
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	14	0	0%	1.35	0.311	↔	-0.00770	0.853	↔	2023-01-13	0.236	↔
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.253	0.034	↔	-0.108	0.317	↔	2024-02-01	0.776	↔
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	14	0	0%	0.00176	0.074	↔	-0.000887	0.116	↔	2023-10-23	0.471	↔
14_2_3_120	MW-04	Appendix III	pH (field)	su	14	0	0%	0.000843	0.397	↔	-0.000377	0.048	↔	2023-05-22	0.372	↔
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	3.09	0.125	↔	0.0556	0.795	↔	2023-04-18	0.586	↔
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.232	0.491	↔	-1.18	0.288	↔	2024-07-16	0.157	↔
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	14	10	71%	0.00000193	0.220	↔	-0.000000475	0.097	↔	2023-05-22	0.364	↔
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	14	0	0%	-0.000000188	0.672	↔	0.0000143	0.001	↑	2024-10-11	0.817	↔
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	14	0	0%	-0.000934	0.294	↔	-0.00000718	0.962	↔	2023-04-19	0.226	↔
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	14	12	86%	0.0000000119	0.053	↔	-0.0000000261	0.488	↔	2024-07-18	0.349	↔
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000967	0.386	↔	-0.000000188	0.341	↔	2023-05-22	0.194	↔
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.00000279	0.523	↔	0.00000119	0.783	↔	2023-10-24	0.055	↔
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	14	0	0%	-0.000000680	0.105	↔	0.000000472	0.710	↔	2024-07-03	0.368	↔
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00176	0.074	↔	-0.000887	0.116	↔	2023-10-23	0.471	↔
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	14	14	100%	0.00000656	0.628	↔	-0.000000588	0.192	↔	2023-02-06	0.209	↔
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	14	2	14%	-0.000000773	0.690	↔	0.00000392	0.255	↔	2024-03-10	0.217	↔
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	-0.00139	0.138	↔	-0.000872	0.541	↔	2023-10-26	0.563	↔
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	14	5	36%	-0.000000569	0.513	↔	0.000000132	0.393	↔	2023-05-22	0.128	↔
14_2_5_111	MW-04	Part 115	Copper	mg/L	14	12	86%	0.000000136	0.058	↔	-0.000000220	0.307	↔	2024-04-07	0.368	↔
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0	0%	0.000352	0.766	↔	-0.0312	0.002	↓	2024-09-04	0.832	↔
14_2_5_119	MW-04	Part 115	Nickel	mg/L	14	0	0%	0.0000793	0.466	↔	-0.00000177	0.803	↔	2023-03-13	0.218	↔
14_2_5_123	MW-04	Part 115	Silver	mg/L	14	14	100%	0.00000194	0.598	↔	-0.000000173	0.161	↔	2023-02-06	0.237	↔
16_1_3_105	MW-06	Appendix III	Boron	mg/L	14	0	0%	-0.00572	0.068	↔	0.00941	0.322	↔	2024-04-07	0.349	↔
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	14	0	0%	0.0876	0.235	↔	-0.291	0.035	↔	2024-04-06	0.462	↔
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.233	0.001	↓	0.149	0.113	↔	2024-03-20	0.793	↔
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	14	0	0%	-0.00287	0.475	↔	0.000291	0.269	↔	2023-03-12	0.218	↔
16_1_3_120	MW-06	Appendix III	pH (field)	su	14	0	0%	-0.00442	0.657	↔	0.000547	0.091	↔	2023-02-05	0.277	↔
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	14	2	14%	-0.0227	0.040	↔	0.204	0.011	↔	2024-09-29	0.638	↔
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.375	0.081	↔	0.0957	0.629	↔	2023-12-06	0.435	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	14	12	86%	0.00000162	0.297	↔	-0.000000272	0.314	↔	2023-04-18	0.197	↔
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	14	0	0%	0.000000399	0.145	↔	-0.00000215	0.235	↔	2024-09-15	0.296	↔
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	14	0	0%	-0.00194	0.401	↔	0.000334	0.206	↔	2023-04-17	0.242	↔
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	14	13	93%	-0.0000000225	0.004	↓	0	0.589	↔	2023-02-11	0.772	↔
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000968	0.389	↔	-0.000000189	0.338	↔	2023-05-22	0.194	↔
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.0000171	0.404	↔	-0.00000149	0.032	↔	2023-01-03	0.418	↔
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	14	0	0%	-0.000000414	0.126	↔	0.0000000298	0.971	↔	2024-07-17	0.393	↔
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00287	0.475	↔	0.000291	0.269	↔	2023-03-12	0.218	↔
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	14	9	64%	-0.00000112	0.467	↔	-0.000000242	0.786	↔	2023-10-23	0.233	↔
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	14	0	0%	-0.000191	0.007	↓	0.000148	0.432	↔	2024-04-07	0.584	↔
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	14	8	57%	-0.00000170	0.399	↔	0.00000101	0.766	↔	2024-03-09	0.115	↔
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	0.00321	0.681	↔	-0.000600	0.350	↔	2023-03-13	0.123	↔
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	5	36%	0.000000251	0.312	↔	-0.000000217	0.377	↔	2024-02-12	0.224	↔
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	14	14	100%	0.00000305	0.320	↔	-0.000000266	0.187	↔	2023-02-06	0.240	↔
16_1_5_111	MW-06	Part 115	Copper	mg/L	14	11	79%	0.000000199	0.012	↔	-0.000000425	0.354	↔	2024-07-18	0.509	↔
16_1_5_114	MW-06	Part 115	Iron	mg/L	14	0	0%	0.0211	0.065	↔	-0.0646	0.004	↓	2024-03-24	0.677	↔
16_1_5_119	MW-06	Part 115	Nickel	mg/L	14	5	36%	-0.00000104	0.071	↔	0.000000857	0.125	↔	2024-02-11	0.509	↔
16_1_5_123	MW-06	Part 115	Silver	mg/L	14	14	100%	0.00000200	0.607	↔	-0.000000174	0.158	↔	2023-02-05	0.239	↔
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	14	13	93%	-0.000000572	0.034	↔	0	0.338	↔	2023-01-04	0.514	↔
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	14	0	0%	0.0279	0.921	↔	0.0111	0.545	↔	2023-03-12	0.068	↔
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.0107	0.002	↓	0.00431	0.000	↑	2023-06-19	0.864	↔
17_1_3_120	MW-07	Appendix III	pH (field)	su	14	0	0%	-0.00155	0.603	↔	0.000188	0.334	↔	2023-03-12	0.141	↔
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-0.0983	0.138	↔	0.0275	0.026	↔	2023-04-30	0.485	↔
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.419	0.392	↔	0.109	0.383	↔	2023-06-26	0.392	↔
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	14	13	93%	0.000000279	0.000	↑	0	1.000	↔	2023-07-09	0.900	↔
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	14	0	0%	0.0000000619	0.328	↔	-0.000000299	0.476	↔	2024-08-12	0.158	↔
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	14	0	0%	-0.000208	0.622	↔	0.000131	0.016	↔	2023-04-17	0.489	↔
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	14	11	79%	0.0000000155	0.458	↔	-0.0000000112	0.358	↔	2023-08-07	0.159	↔
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000221	0.002	↑	0	1.000	↔	2023-07-30	0.835	↔
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.000000331	0.087	↔	-0.000000970	0.425	↔	2024-07-22	0.305	↔
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000485	0.244	↔	-0.000000187	0.146	↔	2023-01-24	0.414	↔
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	14	14	100%	-0.000000618	0.002	↓	0	1.000	↔	2023-07-30	0.835	↔
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	14	0	0%	0.00000812	0.732	↔	-0.00000313	0.244	↔	2023-04-17	0.143	↔
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	14	14	100%	-0.00000190	0.002	↓	0	1.000	↔	2023-07-30	0.835	↔
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	2	15%	-0.000575	0.572	↔	0.0000727	0.993	↔	2024-04-08	0.054	↔
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	14	9	64%	-0.000000617	0.034	↔	0.0000000495	0.614	↔	2023-06-29	0.513	↔
17_1_5_114	MW-07	Part 115	Iron	mg/L	14	0	0%	0.0115	0.525	↔	0.00280	0.375	↔	2023-05-21	0.316	↔
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	14	12	86%	0	1.000	↔	0.000000301	0.218	↔	2023-09-09	0.316	↔
17_1_5_129	MW-07	Part 115	Zinc	mg/L	14	9	64%	-0.0000269	0.485	↔	0.00000855	0.700	↔	2023-09-09	0.080	↔
18_1_3_105	MW-08	Appendix III	Boron	mg/L	14	0	0%	0.0802	0.016	↔	-0.00374	0.059	↔	2023-02-07	0.614	↔
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	14	0	0%	-0.0897	0.011	↔	0.0424	0.168	↔	2024-01-05	0.673	↔
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.00331	0.958	↔	0.0965	0.146	↔	2024-01-21	0.347	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	14	0	0%	0.0102	0.044	↔	-0.000372	0.216	↔	2023-02-12	0.531	↔
18_1_3_120	MW-08	Appendix III	pH (field)	su	14	0	0%	0.00566	0.168	↔	-0.000178	0.679	↔	2023-03-14	0.299	↔
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	14	4	29%	-0.0639	0.064	↔	0.110	0.005	↑	2023-12-23	0.668	↔
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.172	0.410	↔	0.272	0.198	↔	2023-11-25	0.257	↔
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	14	6	43%	0.00000125	0.610	↔	-0.000000691	0.362	↔	2023-02-06	0.174	↔
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	14	0	0%	0.0000141	0.573	↔	-0.0000377	0.821	↔	2024-07-18	0.038	↔
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	14	0	0%	-0.000735	0.211	↔	0.0000122	0.983	↔	2023-10-24	0.276	↔
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	14	13	93%	-0.0000000177	0.328	↔	0.000000250	0.001	↑	2024-06-14	0.820	↔
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	14	13	93%	0.000000219	0.009	↑	0.0000000429	0.124	↔	2023-06-27	0.809	↔
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.00000743	0.338	↔	-0.000000791	0.005	↓	2023-01-28	0.579	↔
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	14	0	0%	-0.000000337	0.105	↔	0.00000481	0.004	↑	2024-10-14	0.679	↔
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.0102	0.044	↔	-0.000372	0.216	↔	2023-02-12	0.531	↔
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	14	9	64%	-0.00000105	0.688	↔	0.00000266	0.316	↔	2023-11-20	0.193	↔
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	14	0	0%	0.00134	0.055	↔	-0.0000710	0.004	↓	2023-01-19	0.690	↔
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.00000818	0.132	↔	0.00000142	0.289	↔	2023-06-17	0.365	↔
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	-0.00547	0.760	↔	-0.000691	0.316	↔	2023-02-06	0.254	↔
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	14	5	36%	-0.0000000968	0.359	↔	0.000000902	0.212	↔	2024-09-11	0.275	↔
18_1_5_111	MW-08	Part 115	Copper	mg/L	14	5	36%	0.0000000261	0.917	↔	0.00000166	0.003	↑	2024-04-06	0.783	↔
18_1_5_114	MW-08	Part 115	Iron	mg/L	14	0	0%	-0.113	0.029	↔	0.00193	0.701	↔	2023-04-11	0.712	↔
18_1_5_119	MW-08	Part 115	Nickel	mg/L	14	0	0%	-0.000000878	0.940	↔	0.0000146	0.051	↔	2023-10-23	0.502	↔
18_1_5_129	MW-08	Part 115	Zinc	mg/L	14	3	21%	-0.0000932	0.626	↔	0.000142	0.457	↔	2023-12-04	0.093	↔
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	14	0	0%	1.30	0.164	↔	0.0969	0.343	↔	2023-03-18	0.498	↔
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.0188	0.440	↔	0.109	0.001	↑	2024-01-01	0.816	↔
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	14	0	0%	0.00261	0.139	↔	-0.000541	0.227	↔	2023-06-21	0.365	↔
19_2_3_120	MW-09	Appendix III	pH (field)	su	14	0	0%	0.000756	0.274	↔	-0.000471	0.019	↔	2023-05-23	0.530	↔
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	3.51	0.158	↔	0.146	0.584	↔	2023-04-09	0.538	↔
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	4.73	0.129	↔	0.331	0.327	↔	2023-04-14	0.636	↔
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	14	9	64%	0.00000169	0.263	↔	-0.000000279	0.291	↔	2023-04-18	0.219	↔
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0	0%	-0.00784	0.120	↔	-0.0000786	0.924	↔	2023-04-18	0.410	↔
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	14	14	100%	0.00000112	0.189	↔	-0.000000176	0.413	↔	2023-05-23	0.244	↔
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.00000159	0.417	↔	0.000000589	0.760	↔	2024-01-11	0.146	↔
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000328	0.473	↔	-0.000000529	0.096	↔	2023-03-09	0.293	↔
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00261	0.139	↔	-0.000541	0.227	↔	2023-06-21	0.365	↔
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	14	14	100%	0.00000530	0.497	↔	-0.000000427	0.405	↔	2023-02-06	0.114	↔
19_2_4_117	MW-09	Appendix IV	Mercury	mg/L	14	12	86%	0.00000448	0.088	↔	-0.00000242	0.329	↔	2023-10-24	0.322	↔
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.0000945	0.056	↔	0.0000113	0.171	↔	2023-05-22	0.571	↔
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	13	12	92%	0.000278	0.292	↔	-0.000145	0.850	↔	2024-02-14	0.174	↔
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	2	14%	-0.0000000545	0.785	↔	0.000000944	0.001	↑	2024-02-07	0.814	↔
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	14	14	100%	0.00000233	0.509	↔	0.0000000504	0.825	↔	2023-02-06	0.114	↔
19_2_5_111	MW-09	Part 115	Copper	mg/L	14	9	64%	0.000000944	0.049	↔	-0.00000174	0.559	↔	2024-07-17	0.354	↔
19_2_5_114	MW-09	Part 115	Iron	mg/L	14	0	0%	0.00553	0.478	↔	-0.0308	0.232	↔	2024-04-19	0.339	↔
19_2_5_123	MW-09	Part 115	Silver	mg/L	14	14	100%	0.000000933	0.250	↔	-0.000000163	0.250	↔	2023-04-18	0.236	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
20_3_3_105	MW-10	Appendix III	Boron	mg/L	14	0	0%	-0.306	0.369	↔	0.00868	0.411	↔	2023-01-06	0.162	↔
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	14	0	0%	0.340	0.172	↔	-0.544	0.481	↔	2024-07-16	0.268	↔
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	14	0	0%	-0.00386	0.289	↔	0.00742	0.517	↔	2024-05-25	0.147	↔
20_3_3_120	MW-10	Appendix III	pH (field)	su	14	0	0%	0.00237	0.542	↔	-0.000881	0.206	↔	2023-05-22	0.182	↔
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	1.17	0.170	↔	-2.69	0.317	↔	2024-06-17	0.251	↔
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	14	10	71%	0.000000261	0.531	↔	-0.000000601	0.404	↔	2024-02-13	0.131	↔
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	14	0	0%	-0.00157	0.313	↔	0.000149	0.386	↔	2023-04-10	0.258	↔
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	14	7	50%	0.000000461	0.295	↔	-0.000000136	0.091	↔	2023-05-22	0.330	↔
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000968	0.391	↔	-0.000000188	0.339	↔	2023-05-22	0.193	↔
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.00000726	0.561	↔	-0.00000438	0.360	↔	2023-08-07	0.114	↔
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	1	7%	0.00000337	0.380	↔	-0.00000124	0.079	↔	2023-05-22	0.318	↔
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00386	0.289	↔	0.00742	0.517	↔	2024-05-25	0.147	↔
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	14	12	86%	0.00000865	0.279	↔	-0.000000830	0.119	↔	2023-02-06	0.298	↔
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	14	0	0%	0.00274	0.647	↔	-0.000289	0.459	↔	2023-03-12	0.102	↔
20_3_4_117	MW-10	Appendix IV	Mercury	mg/L	14	13	93%	0.00000160	0.171	↔	-0.00000241	0.225	↔	2024-04-06	0.292	↔
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.0000119	0.092	↔	-0.000000556	0.884	↔	2023-08-29	0.488	↔
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	13	10	77%	0.00360	0.697	↔	-0.000392	0.285	↔	2023-02-05	0.157	↔
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	1	7%	0.000000621	0.186	↔	-0.000000998	0.044	↔	2024-02-12	0.425	↔
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	14	14	100%	0.00000363	0.585	↔	-0.000000120	0.564	↔	2023-02-05	0.175	↔
20_3_5_111	MW-10	Part 115	Copper	mg/L	14	11	79%	0.00000125	0.673	↔	-0.000000562	0.286	↔	2023-05-22	0.128	↔
20_3_5_114	MW-10	Part 115	Iron	mg/L	14	0	0%	-0.00384	0.498	↔	0.00580	0.310	↔	2023-10-27	0.204	↔
20_3_5_119	MW-10	Part 115	Nickel	mg/L	14	7	50%	0.00000206	0.369	↔	-0.000000763	0.207	↔	2023-05-23	0.218	↔
20_3_5_123	MW-10	Part 115	Silver	mg/L	14	14	100%	0.00000199	0.323	↔	-0.000000173	0.190	↔	2023-02-06	0.237	↔
20_3_5_129	MW-10	Part 115	Zinc	mg/L	14	6	43%	-0.0000250	0.327	↔	0.00000832	0.568	↔	2023-08-13	0.130	↔
21_2_3_105	MW-11	Appendix III	Boron	mg/L	14	0	0%	-0.0651	0.168	↔	0.00400	0.435	↔	2023-03-14	0.286	↔
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	14	0	0%	1.20	0.209	↔	-0.135	0.207	↔	2023-03-14	0.279	↔
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.299	0.113	↔	0.00619	0.756	↔	2023-03-20	0.410	↔
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	14	0	0%	-0.00636	0.395	↔	0.000483	0.333	↔	2023-03-13	0.262	↔
21_2_3_120	MW-11	Appendix III	pH (field)	su	14	0	0%	0.00000411	0.984	↔	-0.000727	0.066	↔	2024-03-06	0.536	↔
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	14	5	36%	1.03	0.410	↔	-0.200	0.031	↔	2023-03-13	0.418	↔
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	2.53	0.310	↔	-0.460	0.291	↔	2023-04-24	0.202	↔
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	14	10	71%	-0.000000432	0.639	↔	-0.0000000764	0.886	↔	2023-10-10	0.098	↔
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0	0%	-0.0000123	0.253	↔	0.000000524	0.656	↔	2023-04-01	0.288	↔
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	14	0	0%	-0.00302	0.275	↔	0.000293	0.343	↔	2023-04-17	0.315	↔
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	14	11	79%	0.000000342	0.114	↔	-0.000000493	0.457	↔	2024-04-07	0.265	↔
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	14	12	86%	-0.00000134	0.616	↔	-0.000000134	0.656	↔	2023-03-14	0.118	↔
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.0000220	0.425	↔	0	0.998	↔	2023-04-17	0.239	↔
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0	0%	0.000000953	0.534	↔	-0.00000255	0.340	↔	2024-04-06	0.129	↔
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00636	0.395	↔	0.000483	0.333	↔	2023-03-13	0.262	↔
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	14	3	21%	-0.000210	0.368	↔	-0.00000184	0.943	↔	2023-04-10	0.271	↔
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	14	0	0%	-0.00107	0.362	↔	0.0000305	0.691	↔	2023-03-13	0.302	↔
21_2_4_117	MW-11	Appendix IV	Mercury	mg/L	14	13	93%	0.000000867	0.096	↔	-0.00000131	0.411	↔	2024-04-07	0.293	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14	2	14%	-0.0000132	0.230	↔	0.000000507	0.672	↔	2023-03-19	0.255	↔
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	3	21%	0.000000582	0.117	↔	-0.000000818	0.192	↔	2024-02-13	0.331	↔
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	14	13	93%	0.00000279	0.591	↔	-0.000000277	0.099	↔	2023-02-07	0.293	↔
21_2_5_111	MW-11	Part 115	Copper	mg/L	14	3	21%	-0.0000553	0.401	↔	-0.000000197	0.978	↔	2023-04-09	0.234	↔
21_2_5_114	MW-11	Part 115	Iron	mg/L	14	0	0%	-0.0539	0.233	↔	0.00574	0.069	↔	2023-02-24	0.390	↔
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0	0%	-0.0000248	0.398	↔	0.000000818	0.801	↔	2023-04-17	0.234	↔
21_2_5_123	MW-11	Part 115	Silver	mg/L	14	12	86%	0.000000593	0.422	↔	-0.000000158	0.231	↔	2023-04-18	0.190	↔
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	14	12	86%	0.00000220	0.096	↔	-0.00000332	0.411	↔	2024-04-07	0.293	↔
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	4	29%	-0.000260	0.073	↔	0.0000696	0.189	↔	2023-07-21	0.417	↔
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	14	0	0%	0.0358	0.747	↔	-0.0244	0.564	↔	2023-08-06	0.046	↔
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.00769	0.319	↔	0.0677	0.201	↔	2024-09-13	0.283	↔
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	14	0	0%	-0.00337	0.122	↔	-0.00000668	0.961	↔	2023-02-07	0.387	↔
22_2_3_120	MW-12	Appendix III	pH (field)	su	14	0	0%	0.00426	0.570	↔	-0.000326	0.512	↔	2023-03-12	0.134	↔
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-0.160	0.001	↓	0.361	0.164	↔	2024-10-02	0.737	↔
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.227	0.471	↔	0.375	0.240	↔	2024-02-12	0.175	↔
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	14	0	0%	-0.00000101	0.019	↔	0.00000491	0.002	↑	2024-06-25	0.749	↔
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	14	5	36%	0.000000565	0.439	↔	-0.00000118	0.352	↔	2024-04-07	0.138	↔
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00337	0.122	↔	-0.00000668	0.961	↔	2023-02-07	0.387	↔
22_2_4_117	MW-12	Appendix IV	Mercury	mg/L	14	12	86%	0.0000000643	0.096	↔	-0.0000000975	0.407	↔	2024-04-08	0.293	↔
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.00000137	0.866	↔	0.0000181	0.216	↔	2024-04-07	0.245	↔
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	13	9	69%	0.00192	0.219	↔	-0.000384	0.271	↔	2023-04-19	0.268	↔
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	14	0	0%	-0.00000237	0.045	↔	0.0000291	0.002	↑	2024-09-30	0.748	↔
22_2_5_111	MW-12	Part 115	Copper	mg/L	14	0	0%	0.000000664	0.194	↔	0.0000113	0.006	↑	2024-08-30	0.854	↔
22_2_5_119	MW-12	Part 115	Nickel	mg/L	14	0	0%	-0.00000133	0.481	↔	0.00000400	0.230	↔	2024-04-07	0.190	↔
22_2_5_129	MW-12	Part 115	Zinc	mg/L	14	0	0%	-0.00000309	0.730	↔	0.0000145	0.357	↔	2024-02-13	0.176	↔
28_1_3_105	MW-18	Appendix III	Boron	mg/L	14	0	0%	-0.000573	0.928	↔	0.00351	0.000	↑	2023-03-12	0.909	↔
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	14	0	0%	-1.24	0.006	↓	0.156	0.028	↔	2023-04-18	0.688	↔
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.00685	0.520	↔	0.0348	0.078	↔	2024-04-09	0.368	↔
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	14	0	0%	0.00460	0.241	↔	-0.00153	0.294	↔	2023-08-07	0.250	↔
28_1_3_120	MW-18	Appendix III	pH (field)	su	14	0	0%	0.000663	0.030	↔	-0.0000438	0.779	↔	2023-08-08	0.530	↔
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-9.17	0.142	↔	0.382	0.059	↔	2023-02-07	0.640	↔
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-2.25	0.025	↔	0.483	0.162	↔	2023-07-06	0.526	↔
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	14	3	21%	0.00000101	0.619	↔	-0.000000155	0.491	↔	2023-04-17	0.093	↔
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	14	12	86%	0	0.118	↔	0	0.545	↔	2024-04-10	0.253	↔
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	14	6	43%	0.000000220	0.848	↔	-0.000000292	0.159	↔	2023-05-21	0.233	↔
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	14	13	93%	0.000000216	0.083	↔	-0.0000000168	0.569	↔	2023-05-22	0.391	↔
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	14	0	0%	-0.0000288	0.000	↓	-0.000000785	0.337	↔	2023-04-18	0.915	↔
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00460	0.241	↔	-0.00153	0.294	↔	2023-08-07	0.250	↔
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	14	9	64%	0.00000422	0.690	↔	-0.000000573	0.103	↔	2023-02-07	0.257	↔
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	14	0	0%	-0.000203	0.245	↔	0.00000700	0.528	↔	2023-02-08	0.218	↔
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	14	0	0%	0.0000255	0.256	↔	-0.00000143	0.861	↔	2023-08-07	0.291	↔
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	0.00288	0.277	↔	-0.000689	0.077	↔	2023-04-17	0.398	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	14	0	0%	0.00000181	0.165	↔	-0.00000320	0.158	↔	2024-04-09	0.319	↔
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	14	14	100%	0.00000211	0.705	↔	-0.000000169	0.342	↔	2023-02-07	0.129	↔
28_1_5_111	MW-18	Part 115	Copper	mg/L	14	0	0%	0.00000202	0.423	↔	-0.000000236	0.801	↔	2023-08-07	0.148	↔
28_1_5_114	MW-18	Part 115	Iron	mg/L	14	0	0%	-0.0455	0.001	↓	0.00416	0.003	↑	2023-03-20	0.830	↔
28_1_5_119	MW-18	Part 115	Nickel	mg/L	14	0	0%	-0.0000275	0.002	↓	0.000000647	0.804	↔	2023-07-10	0.792	↔
28_1_5_123	MW-18	Part 115	Silver	mg/L	14	14	100%	0.00000138	0.706	↔	-0.000000111	0.342	↔	2023-02-07	0.129	↔
28_1_5_129	MW-18	Part 115	Zinc	mg/L	14	0	0%	-0.000238	0.077	↔	-0.0000188	0.385	↔	2023-05-11	0.650	↔
29_1_3_105	MW-19	Appendix III	Boron	mg/L	14	0	0%	-0.000626	0.529	↔	0.00227	0.200	↔	2024-04-07	0.213	↔
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	14	0	0%	-0.428	0.036	↔	0.0427	0.685	↔	2023-08-07	0.490	↔
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.241	0.003	↓	-0.0166	0.154	↔	2023-04-19	0.836	↔
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	14	0	0%	-0.00435	0.389	↔	-0.000390	0.245	↔	2023-02-22	0.409	↔
29_1_3_120	MW-19	Appendix III	pH (field)	su	14	0	0%	0.00104	0.518	↔	-0.000368	0.198	↔	2023-05-17	0.190	↔
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-1.16	0.424	↔	0.0105	0.977	↔	2023-06-27	0.191	↔
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-2.47	0.003	↓	-0.149	0.542	↔	2023-07-07	0.817	↔
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	14	12	86%	0.00000215	0.492	↔	-0.000000167	0.627	↔	2023-04-17	0.154	↔
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	14	0	0%	-0.0000950	0.121	↔	-0.000000608	0.924	↔	2023-04-07	0.532	↔
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	14	3	21%	0.000000827	0.736	↔	-0.0000000519	0.476	↔	2023-02-07	0.099	↔
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000986	0.384	↔	-0.000000189	0.335	↔	2023-05-21	0.197	↔
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	14	5	36%	-0.00000155	0.234	↔	-0.0000000780	0.808	↔	2023-05-22	0.304	↔
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	14	1	7%	-0.00000102	0.007	↓	0.00000707	0.006	↑	2024-09-18	0.726	↔
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00435	0.389	↔	-0.000390	0.245	↔	2023-02-22	0.409	↔
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	14	14	100%	0.00000849	0.600	↔	-0.000000832	0.101	↔	2023-02-07	0.290	↔
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	14	0	0%	-0.0000595	0.013	↔	0.0000245	0.490	↔	2024-02-13	0.589	↔
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.00000733	0.192	↔	0.0000486	0.017	↔	2024-06-22	0.591	↔
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	13	5	38%	0.00635	0.171	↔	-0.000888	0.031	↔	2023-02-16	0.496	↔
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	14	10	71%	-0.00000148	0.220	↔	0.000000119	0.860	↔	2023-08-09	0.231	↔
29_1_5_111	MW-19	Part 115	Copper	mg/L	14	12	86%	-0.000000801	0.540	↔	0.0000000482	0.922	↔	2023-07-21	0.085	↔
29_1_5_114	MW-19	Part 115	Iron	mg/L	14	0	0%	0.0109	0.046	↔	-0.0301	0.374	↔	2024-10-01	0.414	↔
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	1	7%	0.0000114	0.097	↔	-0.0000231	0.594	↔	2024-07-18	0.270	↔
29_1_5_123	MW-19	Part 115	Silver	mg/L	14	14	100%	0.00000198	0.621	↔	-0.000000175	0.156	↔	2023-02-07	0.242	↔
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	14	14	100%	-0.00000248	0.534	↔	0	1.000	↔	2023-08-03	0.114	↔
29_1_5_129	MW-19	Part 115	Zinc	mg/L	14	10	71%	-0.00000400	0.192	↔	0.0000156	0.121	↔	2024-06-22	0.342	↔
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	14	0	0%	-0.146	0.422	↔	0.0162	0.726	↔	2023-06-25	0.151	↔
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.104	0.258	↔	-0.0697	0.010	↔	2023-05-23	0.592	↔
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0	0%	-0.00829	0.001	↓	-0.0000305	0.581	↔	2023-01-06	0.834	↔
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	1.03	0.413	↔	-0.0884	0.036	↔	2023-01-11	0.398	↔
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	0.0862	0.562	↔	-0.672	0.176	↔	2024-04-08	0.445	↔
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	14	4	29%	0.000000354	0.182	↔	0	0.998	↔	2023-04-18	0.322	↔
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	14	0	0%	0.000000657	0.138	↔	-0.00000431	0.148	↔	2024-09-21	0.350	↔
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	14	0	0%	-0.00682	0.012	↔	0.000316	0.052	↔	2023-02-16	0.693	↔
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000221	0.002	↑	0	1.000	↔	2023-07-31	0.836	↔
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	14	6	43%	0.000000724	0.576	↔	-0.0000000264	0.504	↔	2023-02-06	0.192	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000294	0.610	↔	-0.00000102	0.000	↓	2023-02-06	0.792	↔
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00829	0.001	↓	-0.0000305	0.581	↔	2023-01-06	0.834	↔
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	14	0	0%	0.00000295	0.519	↔	-0.00000119	0.150	↔	2023-05-14	0.225	↔
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	14	0	0%	0.0000347	0.669	↔	-0.0000508	0.119	↔	2023-08-06	0.300	↔
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	14	0	0%	0.000000552	0.662	↔	0.00000361	0.380	↔	2024-04-08	0.372	↔
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	-0.0185	0.043	↔	0.0000799	0.792	↔	2023-01-15	0.659	↔
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	14	8	57%	-0.000000489	0.102	↔	-0.0000000470	0.657	↔	2023-06-28	0.488	↔
30_1_5_114	MW-20	Part 115	Iron	mg/L	14	0	0%	-0.000193	0.970	↔	-0.0153	0.107	↔	2024-04-07	0.413	↔
30_1_5_129	MW-20	Part 115	Zinc	mg/L	14	0	0%	-0.0000875	0.272	↔	0.0000161	0.721	↔	2023-09-22	0.224	↔
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0	0%	0.00292	0.781	↔	-0.00106	0.133	↔	2023-03-12	0.222	↔
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0	0%	-0.484	0.376	↔	0.555	0.309	↔	2023-12-14	0.169	↔
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.0808	0.255	↔	5.83	0.000	↑	2024-08-20	0.984	↔
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0	0%	0.00357	0.186	↔	-0.000333	0.256	↔	2023-03-14	0.287	↔
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.122	0.765	↔	13.6	0.001	↑	2024-10-13	0.822	↔
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	2	14%	0.0000000446	0.892	↔	0.00000932	0.002	↑	2024-08-17	0.884	↔
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	14	0	0%	-0.000452	0.055	↔	0.0000441	0.083	↔	2023-04-07	0.583	↔
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	14	12	86%	-0.0000000821	0.432	↔	0.00000131	0.082	↔	2024-09-13	0.452	↔
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.0000746	0.595	↔	-0.00000253	0.541	↔	2023-02-05	0.286	↔
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	14	13	93%	-0.000000599	0.634	↔	0.00000188	0.391	↔	2024-03-31	0.107	↔
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	14	0	0%	-0.000119	0.295	↔	0.000137	0.476	↔	2024-02-28	0.156	↔
40_1_4_117	MW-30	Appendix IV	Mercury	mg/L	14	13	93%	0.000000213	0.095	↔	-0.000000321	0.409	↔	2024-04-07	0.294	↔
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	14	3	21%	-0.00000271	0.136	↔	0.000140	0.000	↑	2024-10-14	0.963	↔
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	14	7	50%	-0.00000151	0.333	↔	0.000000490	0.401	↔	2023-07-31	0.172	↔
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	14	14	100%	0.00000448	0.126	↔	-0.0000000271	0.877	↔	2023-02-06	0.371	↔
40_1_5_111	MW-30	Part 115	Copper	mg/L	14	10	71%	-0.000000271	0.496	↔	0.00000606	0.042	↔	2024-10-15	0.450	↔
40_1_5_114	MW-30	Part 115	Iron	mg/L	14	0	0%	0.00203	0.600	↔	-0.00921	0.726	↔	2024-07-18	0.054	↔
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	14	14	100%	-0.00000104	0.384	↔	0.0000188	0.035	↔	2024-10-02	0.506	↔
40_1_5_129	MW-30	Part 115	Zinc	mg/L	14	10	71%	-0.00000526	0.076	↔	0.000733	0.000	↑	2024-10-11	0.997	↔
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	14	0	0%	-0.146	0.207	↔	0.00965	0.817	↔	2023-06-27	0.244	↔
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.0281	0.126	↔	0.0596	0.299	↔	2024-04-08	0.311	↔
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	14	0	0%	0.00206	0.308	↔	-0.00117	0.005	↓	2023-05-21	0.591	↔
41_1_3_120	MW-31	Appendix III	pH (field)	su	14	0	0%	-0.0000931	0.817	↔	0.000288	0.473	↔	2023-10-23	0.135	↔
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-0.436	0.137	↔	-0.0982	0.355	↔	2023-08-07	0.602	↔
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.511	0.300	↔	-0.0660	0.430	↔	2023-05-21	0.446	↔
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	14	6	43%	0.0000000809	0.424	↔	0.00000170	0.000	↑	2024-04-03	0.963	↔
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	14	0	0%	-0.0000725	0.529	↔	0.000271	0.186	↔	2024-02-12	0.306	↔
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	14	13	93%	0.000000217	0.001	↑	0	0.794	↔	2023-08-19	0.833	↔
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00206	0.308	↔	-0.00117	0.005	↓	2023-05-21	0.591	↔
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	14	12	86%	-0.000000409	0.189	↔	0.0000000323	0.851	↔	2023-10-22	0.395	↔
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	14	0	0%	-0.0000173	0.340	↔	0.0000164	0.593	↔	2024-02-12	0.122	↔
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.00000156	0.031	↔	0.00000300	0.166	↔	2024-06-08	0.469	↔
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	0.000962	0.677	↔	-0.000474	0.361	↔	2023-05-21	0.110	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	14	6	43%	0.000000422	0.458	↔	-0.000000784	0.178	↔	2024-02-11	0.213	↔
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	14	13	93%	0.0000000137	0.248	↔	-0.0000000162	0.173	↔	2024-02-11	0.294	↔
41_1_5_111	MW-31	Part 115	Copper	mg/L	14	9	64%	0.000000287	0.030	↔	-0.000000436	0.260	↔	2024-06-03	0.466	↔
41_1_5_114	MW-31	Part 115	Iron	mg/L	14	0	0%	-0.00664	0.000	↓	0.000188	0.793	↔	2023-09-11	0.886	↔
41_1_5_119	MW-31	Part 115	Nickel	mg/L	14	10	71%	0.00000213	0.017	↔	0.000153	0.000	↑	2024-10-09	0.995	↔
41_1_5_129	MW-31	Part 115	Zinc	mg/L	14	9	64%	-0.00000766	0.241	↔	0.0000506	0.029	↔	2024-05-24	0.601	↔
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	14	0	0%	-0.195	0.134	↔	0.00993	0.830	↔	2023-08-07	0.432	↔
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.0206	0.018	↔	0.0397	0.010	↔	2024-04-06	0.643	↔
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	0.280	0.817	↔	-0.161	0.062	↔	2023-03-13	0.330	↔
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.559	0.147	↔	-0.0391	0.853	↔	2023-08-08	0.380	↔
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	14	10	71%	0.000000722	0.183	↔	-0.000000784	0.146	↔	2024-02-11	0.353	↔
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0	0%	0.00000208	0.215	↔	-0.00000254	0.134	↔	2024-02-11	0.330	↔
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	14	0	0%	-0.000369	0.549	↔	0.00219	0.057	↔	2024-02-12	0.530	↔
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	14	13	93%	0.0000000189	0.249	↔	-0.0000000223	0.174	↔	2024-02-11	0.293	↔
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	14	13	93%	0.000000241	0.006	↑	-0.000000176	0.173	↔	2024-02-12	0.622	↔
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.00000227	0.216	↔	-0.00000298	0.336	↔	2024-02-12	0.217	↔
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000168	0.233	↔	-0.00000212	0.136	↔	2024-02-11	0.317	↔
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	14	10	71%	-0.000000452	0.483	↔	0.000000138	0.566	↔	2023-07-03	0.083	↔
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	14	0	0%	-0.000429	0.552	↔	0.0000482	0.314	↔	2023-02-25	0.141	↔
42_1_4_117	MW-32	Appendix IV	Mercury	mg/L	14	13	93%	0.00000161	0.095	↔	-0.00000243	0.407	↔	2024-04-07	0.294	↔
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0	0%	0.00000332	0.368	↔	-0.00000687	0.077	↔	2024-02-11	0.328	↔
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	0.00204	0.120	↔	-0.000537	0.072	↔	2023-04-18	0.441	↔
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	14	11	79%	0.000000637	0.446	↔	-0.00000101	0.234	↔	2024-02-11	0.184	↔
42_1_5_111	MW-32	Part 115	Copper	mg/L	14	8	57%	0.0000167	0.120	↔	-0.0000195	0.274	↔	2024-02-12	0.298	↔
42_1_5_114	MW-32	Part 115	Iron	mg/L	14	0	0%	-0.0272	0.035	↔	0.000718	0.867	↔	2023-08-07	0.644	↔
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0	0%	0.0000220	0.274	↔	-0.0000273	0.177	↔	2024-02-11	0.276	↔
42_1_5_129	MW-32	Part 115	Zinc	mg/L	14	0	0%	-0.0000265	0.310	↔	0.000278	0.006	↑	2024-05-25	0.756	↔

Table 10: Trend Tests: Piecewise Linear-Linear-Linear

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0	0%	0.00511	0.301	↔	-0.000892	0.847	↔	0.000578	0.742	↔	2023-04-29	2024-02-12	0.237	↔
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	3	21%	0.00000440	0.215	↔	-0.00000246	0.198	↔	-0.0000000559	0.949	↔	2023-04-17	2023-11-12	0.497	↔
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0	0%	-0.00000699	0.347	↔	0.00000602	0.399	↔	-0.00000457	0.113	↔	2023-04-24	2024-02-12	0.433	↔
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14	2	14%	0.000000387	0.291	↔	-0.00000110	0.304	↔	0.000000106	0.760	↔	2023-09-10	2024-04-09	0.616	↔
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	14	11	79%	0.00000122	0.343	↔	-0.000000555	0.648	↔	-0.000000195	0.673	↔	2023-05-22	2023-11-10	0.277	↔
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.00000160	0.966	↔	0.0000396	0.228	↔	-0.0000322	0.191	↔	2023-06-27	2024-02-13	0.396	↔
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000334	0.467	↔	-0.0000132	0.297	↔	0.00000231	0.874	↔	2024-02-12	2024-07-21	0.234	↔
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	2	14%	-0.0000101	0.712	↔	0.0000178	0.526	↔	-0.00000361	0.163	↔	2023-03-10	2023-06-27	0.281	↔

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	1	7%	-0.00000201	0.853	↔	0.00000788	0.677	↔	-0.00000861	0.131	↔	2023-05-27	2024-02-12	0.295	↔
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	0.00541	0.347	↔	-0.000790	0.306	↔	0.00260	0.559	↔	2023-02-12	2024-04-12	0.343	↔
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0	0%	-0.000000689	0.784	↔	0.00000252	0.565	↔	-0.00000176	0.175	↔	2023-06-07	2024-02-12	0.342	↔
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	14	14	100%	0.00000211	0.136	↔	-0.00000151	0.256	↔	0.000000498	0.318	↔	2023-05-16	2023-10-24	0.469	↔
11_2_5_111	MW-01R	Part 115	Copper	mg/L	14	5	36%	-0.00000169	0.699	↔	0.00000777	0.578	↔	-0.000000779	0.221	↔	2023-04-03	2023-06-27	0.387	↔
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0	0%	0.0000266	0.169	↔	-0.0000671	0.196	↔	0.0000107	0.856	↔	2024-02-12	2024-07-26	0.404	↔
11_2_5_123	MW-01R	Part 115	Silver	mg/L	14	14	100%	0.00000247	0.256	↔	-0.000000548	0.550	↔	-0.0000000786	0.767	↔	2023-02-09	2023-08-08	0.281	↔
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14	2	14%	-0.00000524	0.813	↔	0.0000246	0.108	↔	-0.00000209	0.369	↔	2023-03-04	2023-06-28	0.575	↔
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0	0%	0.00553	0.547	↔	0.00122	0.844	↔	0.0375	0.063	↔	2023-08-07	2024-09-19	0.697	↔
12_2_3_120	MW-02	Appendix III	pH (field)	su	14	0	0%	0.00302	0.210	↔	-0.000245	0.436	↔	-0.000291	0.692	↔	2023-02-16	2024-05-13	0.407	↔
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	14	9	64%	-0.00478	0.389	↔	0.0181	0.107	↔	-0.00547	0.494	↔	2023-09-29	2024-04-10	0.537	↔
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	3	21%	0.00000242	0.170	↔	-0.000000987	0.089	↔	0.000000378	0.500	↔	2023-04-17	2024-02-23	0.527	↔
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0	0%	0.00000938	0.393	↔	-0.0000355	0.344	↔	0.0000168	0.030	↔	2023-07-30	2024-02-09	0.648	↔
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	14	10	71%	0.000000919	0.067	↔	-0.00000159	0.636	↔	0.000000220	0.796	↔	2023-10-24	2024-04-29	0.431	↔
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.000791	0.307	↔	-0.0000813	0.378	↔	0.000102	0.145	↔	2023-01-07	2024-02-12	0.379	↔
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00553	0.547	↔	0.00122	0.844	↔	0.0375	0.063	↔	2023-08-07	2024-09-19	0.697	↔
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	14	0	0%	0.0000663	0.405	↔	-0.0000149	0.013	↔	0.0000528	0.003	↑	2023-02-07	2024-06-27	0.796	↔
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	0.0296	0.295	↔	-0.0233	0.440	↔	-0.00104	0.429	↔	2023-01-05	2023-03-21	0.607	↔
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0	0%	0.00000136	0.338	↔	-0.00000193	0.852	↔	0.00000440	0.121	↔	2023-10-24	2024-05-17	0.528	↔
12_2_5_119	MW-02	Part 115	Nickel	mg/L	14	0	0%	0.000216	0.598	↔	-0.0000325	0.129	↔	0.000263	0.043	↔	2023-01-30	2024-09-12	0.607	↔
12_2_5_123	MW-02	Part 115	Silver	mg/L	14	14	100%	0.00000133	0.057	↔	-0.00000356	0.222	↔	0.0000000222	0.875	↔	2023-05-09	2023-07-09	0.624	↔
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	14	1	7%	0.0000124	0.288	↔	-0.00000794	0.836	↔	0.00000489	0.487	↔	2023-08-01	2024-02-12	0.271	↔
12_2_5_129	MW-02	Part 115	Zinc	mg/L	14	0	0%	-0.0000430	0.387	↔	-0.00000538	0.909	↔	0.000148	0.027	↔	2023-06-28	2024-07-04	0.640	↔
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	14	0	0%	0.215	0.437	↔	-0.187	0.416	↔	-0.0933	0.579	↔	2023-06-19	2024-02-20	0.393	↔
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	3.81	0.040	↔	-0.921	0.037	↔	-0.814	0.323	↔	2023-04-16	2024-06-16	0.804	↔
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	1.91	0.129	↔	-1.38	0.182	↔	-0.697	0.345	↔	2023-05-29	2024-04-06	0.709	↔
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	14	8	57%	0.00000255	0.128	↔	-0.00000180	0.578	↔	-0.000000148	0.735	↔	2023-05-15	2023-10-02	0.450	↔
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	14	0	0%	-0.00000256	0.202	↔	0.00000237	0.478	↔	-0.000000427	0.645	↔	2023-05-23	2023-12-07	0.317	↔
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	14	9	64%	-0.000000284	0.607	↔	0.000000441	0.643	↔	-0.000000203	0.452	↔	2023-06-03	2023-11-25	0.127	↔
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	14	13	93%	0.00000100	0.561	↔	0.000000169	0.854	↔	-0.000000440	0.336	↔	2023-03-22	2024-02-13	0.221	↔
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	14	0	0%	-0.00000133	0.774	↔	0.00000428	0.345	↔	-0.00000135	0.169	↔	2023-04-17	2023-09-01	0.313	↔
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	14	13	93%	0.00000994	0.007	↑	-0.0000171	0.088	↔	-0.000000314	0.439	↔	2023-04-02	2023-05-25	0.766	↔
13_2_4_117	MW-03	Appendix IV	Mercury	mg/L	14	13	93%	0.000000150	0.064	↔	-0.000000213	0.715	↔	0.0000000423	0.758	↔	2023-10-24	2024-05-21	0.404	↔
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	14	3	21%	-0.00000158	0.537	↔	0.00000204	0.697	↔	-0.000000249	0.726	↔	2023-05-22	2023-09-28	0.122	↔
13_2_5_111	MW-03	Part 115	Copper	mg/L	14	6	43%	-0.000000751	0.718	↔	0.00000502	0.480	↔	-0.000000829	0.521	↔	2023-07-08	2023-10-24	0.237	↔
13_2_5_114	MW-03	Part 115	Iron	mg/L	14	0	0%	-0.0219	0.009	↓	0.00265	0.632	↔	-0.00151	0.710	↔	2023-06-21	2024-02-14	0.801	↔
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	1	7%	-0.0000407	0.280	↔	0.00000809	0.914	↔	-0.000000993	0.922	↔	2023-05-06	2023-08-13	0.300	↔
13_2_5_123	MW-03	Part 115	Silver	mg/L	14	14	100%	0.00000245	0.261	↔	-0.000000541	0.686	↔	-0.0000000789	0.714	↔	2023-02-08	2023-08-06	0.275	↔
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	14	9	64%	-0.00000252	0.605	↔	0.00000423	0.381	↔	-0.00000265	0.641	↔	2023-08-05	2024-06-03	0.212	↔
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	2.89	0.187	↔	0.227	0.546	↔	-0.552	0.748	↔	2023-04-18	2024-07-21	0.611	↔
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	14	10	71%	0.00000280	0.107	↔	-0.00000220	0.512	↔	-0.000000158	0.726	↔	2023-05-12	2023-08-31	0.441	↔
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	14	12	86%	0	0.448	↔	0.0000000476	0.538	↔	-0.0000000465	0.029	↔	2023-11-27	2024-07-17	0.661	↔

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000923	0.456	↔	0.0000000885	0.890	↔	-0.000000390	0.499	↔	2023-04-19	2024-02-14	0.212	↔
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.00000338	0.418	↔	0.0000123	0.284	↔	-0.0000172	0.210	↔	2024-02-13	2024-09-15	0.330	↔
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	14	0	0%	-0.000000138	0.906	↔	-0.00000120	0.310	↔	0.000000617	0.656	↔	2023-08-06	2024-05-25	0.406	↔
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	14	5	36%	-0.000000835	0.343	↔	0.000000472	0.179	↔	-0.000000363	0.551	↔	2023-05-22	2024-04-18	0.318	↔
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	14	14	100%	0.00000286	0.681	↔	0.0000000941	0.781	↔	-0.00000147	0.450	↔	2023-02-06	2024-10-01	0.246	↔
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0	0%	0.0131	0.386	↔	-0.000912	0.555	↔	-0.0312	0.003	↓	2023-02-27	2024-09-14	0.871	↔
14_2_5_123	MW-04	Part 115	Silver	mg/L	14	14	100%	0.00000245	0.262	↔	-0.000000540	0.688	↔	-0.0000000794	0.713	↔	2023-02-08	2023-08-06	0.274	↔
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	14	10	71%	0	1.000	↔	0.00000285	0.000	↑	-0.00000336	0.000	↓	2024-01-17	2024-09-13	0.958	↔
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	14	0	0%	0.478	0.439	↔	0.0265	0.738	↔	-0.256	0.193	↔	2023-03-13	2024-04-07	0.567	↔
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.728	0.063	↔	-0.156	0.008	↓	0.123	0.270	↔	2023-03-04	2024-04-07	0.893	↔
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	14	12	86%	0.00000162	0.354	↔	-0.000000293	0.552	↔	-0.000000180	0.928	↔	2023-04-20	2024-09-09	0.198	↔
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	14	0	0%	-0.00000379	0.274	↔	0.00000167	0.254	↔	-0.000000504	0.241	↔	2023-02-23	2023-10-23	0.455	↔
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	14	0	0%	-0.00293	0.098	↔	0.00195	0.558	↔	-0.0000787	0.862	↔	2023-04-18	2023-09-13	0.385	↔
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	14	13	93%	-0.0000000520	0.000	↓	0	0.402	↔	0	0.821	↔	2023-01-06	2024-09-10	0.991	↔
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000887	0.476	↔	0.0000000531	0.964	↔	-0.000000379	0.406	↔	2023-05-05	2024-02-12	0.216	↔
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.0000185	0.391	↔	-0.00000851	0.421	↔	-0.00000102	0.235	↔	2023-01-26	2023-05-02	0.501	↔
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000255	0.325	↔	-0.000000822	0.246	↔	-0.0000000302	0.940	↔	2023-02-20	2024-02-08	0.577	↔
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	14	9	64%	0.00000864	0.527	↔	-0.00000295	0.204	↔	0.0000000753	0.929	↔	2023-02-05	2023-09-22	0.456	↔
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	14	8	57%	0.00000653	0.381	↔	-0.00000616	0.392	↔	0.00000187	0.489	↔	2023-04-18	2023-12-12	0.314	↔
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	3	23%	0.00618	0.240	↔	-0.00436	0.578	↔	0.000276	0.797	↔	2023-03-14	2023-07-23	0.293	↔
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	5	36%	-0.000000171	0.654	↔	0.000000774	0.556	↔	-0.000000364	0.146	↔	2023-08-03	2024-02-12	0.425	↔
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	14	14	100%	0.00000370	0.280	↔	-0.000000631	0.653	↔	-0.000000116	0.775	↔	2023-02-06	2023-09-20	0.267	↔
16_1_5_111	MW-06	Part 115	Copper	mg/L	14	11	79%	-0.0000000853	0.692	↔	0.000000360	0.035	↔	-0.000000557	0.212	↔	2023-07-18	2024-07-18	0.653	↔
16_1_5_119	MW-06	Part 115	Nickel	mg/L	14	5	36%	-0.00000255	0.102	↔	-0.000000443	0.428	↔	0.000000986	0.336	↔	2023-04-18	2024-05-05	0.619	↔
16_1_5_123	MW-06	Part 115	Silver	mg/L	14	14	100%	0.00000245	0.569	↔	-0.000000435	0.536	↔	-0.0000000755	0.777	↔	2023-02-05	2023-09-12	0.269	↔
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	14	13	93%	-0.000000246	0.095	↔	0.0000000221	0.129	↔	-0.0000000531	0.453	↔	2023-02-16	2024-08-15	0.533	↔
17_1_3_105	MW-07	Appendix III	Boron	mg/L	14	0	0%	-0.0147	0.283	↔	0.00647	0.361	↔	-0.00245	0.471	↔	2023-04-08	2023-10-24	0.319	↔
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.0107	0.002	↓	0.00285	0.021	↔	0.00781	0.056	↔	2023-06-04	2024-07-17	0.910	↔
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	14	3	21%	-0.00143	0.476	↔	0.0000519	0.574	↔	-0.000128	0.805	↔	2023-01-04	2024-07-17	0.123	↔
17_1_3_120	MW-07	Appendix III	pH (field)	su	14	0	0%	-0.000697	0.260	↔	0.00138	0.429	↔	-0.000673	0.258	↔	2023-08-07	2024-03-08	0.394	↔
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-0.100	0.071	↔	0.0702	0.417	↔	0.0106	0.660	↔	2023-05-25	2023-11-30	0.546	↔
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	14	13	93%	-0.000000211	0.469	↔	0.000000355	0.000	↑	0	0.601	↔	2023-01-16	2023-07-09	0.947	↔
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	14	0	0%	-0.0000000514	0.225	↔	0.0000000526	0.186	↔	-0.000000159	0.069	↔	2023-04-17	2023-10-23	0.585	↔
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	14	11	79%	0.0000000219	0.341	↔	-0.0000000247	0.565	↔	0	0.895	↔	2023-08-07	2024-05-02	0.222	↔
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000221	0.006	↑	0	1.000	↔	0	1.000	↔	2023-07-30	2024-03-09	0.835	↔
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0	0%	-0.000000475	0.422	↔	0.000000754	0.083	↔	-0.00000128	0.274	↔	2023-07-10	2024-07-17	0.515	↔
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000113	0.059	↔	-0.00000141	0.435	↔	0.000000342	0.305	↔	2023-07-17	2024-01-30	0.555	↔
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	14	3	21%	-0.00143	0.476	↔	0.0000519	0.574	↔	-0.000128	0.805	↔	2023-01-04	2024-07-17	0.123	↔
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	14	14	100%	-0.000000618	0.006	↓	0	1.000	↔	0	1.000	↔	2023-07-30	2024-09-27	0.835	↔
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	14	0	0%	0.00000938	0.352	↔	-0.0000220	0.507	↔	0.00000326	0.588	↔	2023-06-27	2023-11-23	0.329	↔
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	14	14	100%	0.0000000508	0.687	↔	-0.00000401	0.009	↓	0.0000000288	0.790	↔	2023-03-09	2023-06-22	0.936	↔
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	2	15%	0.00124	0.613	↔	-0.00273	0.699	↔	0.00122	0.768	↔	2023-08-07	2024-03-15	0.158	↔

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	14	9	64%	0.000000536	0.791	↔	-0.000000919	0.175	↔	0.0000000672	0.455	↔	2023-01-27	2023-06-23	0.576	↔
18_1_3_105	MW-08	Appendix III	Boron	mg/L	14	0	0%	0.0752	0.220	↔	-0.00188	0.493	↔	-0.0114	0.465	↔	2023-02-06	2024-07-18	0.661	↔
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	14	0	0%	-0.105	0.069	↔	-0.0249	0.620	↔	0.0832	0.187	↔	2023-08-07	2024-07-17	0.707	↔
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	14	0	0%	0.0102	0.054	↔	-0.00571	0.534	↔	-0.000159	0.655	↔	2023-03-08	2023-05-11	0.609	↔
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	14	4	29%	-0.0919	0.129	↔	0.0115	0.636	↔	0.203	0.041	↔	2023-06-26	2024-07-31	0.807	↔
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	14	6	43%	0.00000152	0.217	↔	-0.000000516	0.125	↔	0.000000147	0.437	↔	2023-02-27	2023-10-28	0.438	↔
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	14	0	0%	0.000617	0.017	↔	-0.000122	0.190	↔	0.0000291	0.276	↔	2023-02-16	2023-09-28	0.681	↔
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	14	0	0%	-0.000812	0.047	↔	0.00196	0.347	↔	-0.00271	0.110	↔	2024-02-19	2024-09-08	0.573	↔
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	14	13	93%	0	0.613	↔	-0.0000000419	0.159	↔	0.000000460	0.000	↑	2024-01-23	2024-09-15	0.983	↔
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	14	13	93%	0.000000229	0.006	↑	0	0.853	↔	0.000000219	0.105	↔	2023-07-27	2024-09-10	0.875	↔
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.00000922	0.012	↔	-0.00000248	0.073	↔	0	0.995	↔	2023-02-07	2023-10-08	0.807	↔
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000491	0.180	↔	-0.000000695	0.002	↓	0.00000416	0.001	↑	2023-02-04	2024-09-05	0.878	↔
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.0102	0.054	↔	-0.00571	0.534	↔	-0.000159	0.655	↔	2023-03-08	2023-05-11	0.609	↔
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	14	0	0%	0.00132	0.060	↔	-0.000158	0.050	↔	-0.0000255	0.618	↔	2023-01-27	2023-10-24	0.763	↔
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.00000842	0.162	↔	0.000000607	0.804	↔	0.00000552	0.529	↔	2023-05-29	2024-10-07	0.391	↔
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	14	5	36%	-0.000000324	0.516	↔	0.0000000101	0.962	↔	0.000000890	0.259	↔	2023-06-26	2024-10-06	0.323	↔
18_1_5_111	MW-08	Part 115	Copper	mg/L	14	5	36%	0.00000145	0.145	↔	-0.00000400	0.339	↔	0.00000110	0.001	↑	2023-05-03	2023-07-20	0.835	↔
18_1_5_114	MW-08	Part 115	Iron	mg/L	14	0	0%	-0.105	0.013	↔	0.0278	0.399	↔	-0.00423	0.729	↔	2023-05-11	2023-10-24	0.745	↔
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	14	0	0%	0.00306	0.022	↔	-0.00308	0.427	↔	0.000819	0.251	↔	2023-07-30	2024-02-12	0.641	↔
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	4.20	0.034	↔	-1.67	0.631	↔	0.573	0.250	↔	2023-04-23	2023-09-13	0.621	↔
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	5.50	0.024	↔	-2.59	0.538	↔	0.973	0.118	↔	2023-05-05	2023-09-18	0.720	↔
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	14	9	64%	0.00000169	0.320	↔	-0.000000278	0.663	↔	-0.000000279	0.809	↔	2023-04-18	2024-07-14	0.219	↔
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	14	0	0%	-0.00000535	0.480	↔	0.00000188	0.185	↔	-0.00000523	0.417	↔	2023-04-17	2024-07-27	0.329	↔
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0	0%	-0.00789	0.164	↔	0.0000763	0.960	↔	-0.00102	0.873	↔	2023-04-20	2024-09-30	0.413	↔
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000436	0.341	↔	-0.000000869	0.478	↔	0.000000360	0.804	↔	2024-02-12	2024-10-07	0.254	↔
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.0000181	0.407	↔	-0.0000145	0.217	↔	-0.0000000589	0.947	↔	2023-02-01	2023-04-18	0.376	↔
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00306	0.022	↔	-0.00308	0.427	↔	0.000819	0.251	↔	2023-07-30	2024-02-12	0.641	↔
19_2_4_117	MW-09	Appendix IV	Mercury	mg/L	14	12	86%	-0.00000247	0.703	↔	0.0000103	0.444	↔	-0.00000353	0.079	↔	2023-05-07	2023-10-23	0.487	↔
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	13	12	92%	-0.00351	0.418	↔	0.00109	0.445	↔	0.0000357	0.889	↔	2023-01-06	2023-05-23	0.298	↔
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	2	14%	-0.0000000514	0.824	↔	0.000000312	0.279	↔	0.00000182	0.011	↔	2023-10-13	2024-09-06	0.885	↔
19_2_5_111	MW-09	Part 115	Copper	mg/L	14	9	64%	-0.000000409	0.837	↔	0.00000146	0.122	↔	-0.000000220	0.489	↔	2023-06-10	2024-07-17	0.424	↔
19_2_5_123	MW-09	Part 115	Silver	mg/L	14	14	100%	0.00000113	0.215	↔	-0.000000443	0.802	↔	-0.0000000638	0.793	↔	2023-04-18	2023-10-15	0.265	↔
19_2_5_129	MW-09	Part 115	Zinc	mg/L	14	8	57%	-0.0000572	0.319	↔	0	1.000	↔	0.0000633	0.240	↔	2023-06-23	2024-06-29	0.402	↔
20_3_3_105	MW-10	Appendix III	Boron	mg/L	14	0	0%	0.0370	0.307	↔	-0.127	0.232	↔	0.0510	0.158	↔	2023-10-15	2024-02-29	0.399	↔
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	14	0	0%	-0.373	0.386	↔	1.98	0.034	↔	-0.693	0.272	↔	2023-10-21	2024-04-07	0.634	↔
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	14	0	0%	0.00741	0.308	↔	-0.0239	0.258	↔	0.00977	0.174	↔	2023-09-14	2024-03-08	0.458	↔
20_3_3_120	MW-10	Appendix III	pH (field)	su	14	0	0%	0.00458	0.240	↔	-0.00671	0.385	↔	0.000304	0.770	↔	2023-05-22	2023-09-16	0.394	↔
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.570	0.555	↔	25.9	0.007	↑	-3.81	0.061	↔	2024-02-07	2024-04-08	0.820	↔
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	14	10	71%	0.00000155	0.360	↔	-0.00000138	0.679	↔	-0.0000000868	0.850	↔	2023-05-17	2023-09-06	0.209	↔
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	14	0	0%	-0.00199	0.086	↔	0.00155	0.473	↔	-0.000189	0.523	↔	2023-05-04	2023-09-24	0.437	↔
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	14	7	50%	0.000000564	0.118	↔	-0.000000604	0.309	↔	0	0.976	↔	2023-06-13	2023-11-08	0.441	↔
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	14	14	100%	0.00000128	0.650	↔	0.000000172	0.821	↔	-0.000000418	0.368	↔	2023-02-21	2024-02-12	0.199	↔

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	14	0	0%	0.0000146	0.114	↔	-0.0000208	0.224	↔	0.0000112	0.376	↔	2023-08-08	2024-04-10	0.486	↔
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	1	7%	0.00000518	0.074	↔	-0.00000422	0.361	↔	0.000000726	0.567	↔	2023-05-23	2024-01-11	0.548	↔
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00741	0.308	↔	-0.0239	0.258	↔	0.00977	0.174	↔	2023-09-14	2024-03-08	0.458	↔
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	14	12	86%	0.0000111	0.118	↔	-0.00000479	0.112	↔	0.000000645	0.433	↔	2023-02-25	2023-09-25	0.604	↔
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	14	0	0%	0.00421	0.489	↔	-0.00133	0.424	↔	0.000820	0.406	↔	2023-03-13	2024-02-06	0.284	↔
20_3_4_117	MW-10	Appendix IV	Mercury	mg/L	14	13	93%	-0.000000644	0.744	↔	0.00000465	0.238	↔	-0.00000345	0.247	↔	2023-09-08	2024-04-07	0.450	↔
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.0000102	0.012	↔	0.0000218	0.261	↔	-0.0000214	0.156	↔	2024-03-02	2024-08-26	0.686	↔
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	1	7%	0.0000000552	0.986	↔	0.000000707	0.408	↔	-0.00000104	0.063	↔	2023-03-01	2024-02-12	0.433	↔
20_3_5_111	MW-10	Part 115	Copper	mg/L	14	11	79%	0.000000425	0.793	↔	-0.00000133	0.776	↔	0.0000000221	0.989	↔	2023-08-27	2024-02-26	0.092	↔
20_3_5_114	MW-10	Part 115	Iron	mg/L	14	0	0%	0.0307	0.007	↑	-0.0387	0.057	↔	0.00808	0.010	↑	2023-04-19	2023-08-20	0.788	↔
20_3_5_119	MW-10	Part 115	Nickel	mg/L	14	7	50%	-0.00000535	0.430	↔	0.00000720	0.289	↔	-0.000000979	0.115	↔	2023-02-22	2023-05-23	0.400	↔
20_3_5_123	MW-10	Part 115	Silver	mg/L	14	14	100%	0.00000239	0.289	↔	-0.000000631	0.643	↔	-0.0000000949	0.663	↔	2023-02-11	2023-07-08	0.263	↔
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	14	11	79%	0.00000160	0.354	↔	-0.000000941	0.747	↔	0.000000553	0.501	↔	2023-05-23	2024-01-09	0.176	↔
21_2_3_105	MW-11	Appendix III	Boron	mg/L	14	0	0%	-0.0692	0.025	↔	0.0683	0.219	↔	-0.0101	0.192	↔	2023-05-03	2023-09-16	0.623	↔
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	14	0	0%	1.29	0.071	↔	2.61	0.102	↔	0.0416	0.817	↔	2023-08-09	2023-04-20	0.446	↔
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.402	0.216	↔	0.0656	0.835	↔	-0.00292	0.915	↔	2023-03-04	2023-06-18	0.415	↔
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	14	0	0%	-0.00728	0.095	↔	0.00452	0.247	↔	-0.00101	0.223	↔	2023-04-16	2023-10-23	0.585	↔
21_2_3_120	MW-11	Appendix III	pH (field)	su	14	0	0%	0.00140	0.703	↔	-0.000139	0.528	↔	-0.000705	0.242	↔	2023-02-07	2024-04-07	0.591	↔
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	14	5	36%	1.56	0.002	↑	-2.66	0.001	↓	0.00145	0.980	↔	2023-04-17	2023-06-30	0.903	↔
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	14	10	71%	0.00000865	0.343	↔	-0.00000137	0.631	↔	-0.000000103	0.791	↔	2023-01-03	2023-06-10	0.230	↔
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0	0%	-0.0000148	0.077	↔	0.0000118	0.449	↔	-0.000000958	0.652	↔	2023-04-28	2023-08-09	0.413	↔
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	14	0	0%	-0.00391	0.052	↔	0.00252	0.490	↔	-0.000444	0.382	↔	2023-05-05	2023-10-23	0.531	↔
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	14	11	79%	-0.000000191	0.658	↔	0.00000120	0.171	↔	-0.000000767	0.241	↔	2023-09-25	2024-04-07	0.469	↔
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	14	12	86%	-0.000000582	0.463	↔	0.000000631	0.918	↔	-0.000000243	0.870	↔	2023-12-11	2024-04-29	0.120	↔
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0	0%	-0.00000183	0.511	↔	0.00000476	0.555	↔	-0.00000385	0.173	↔	2023-09-09	2024-04-06	0.291	↔
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00728	0.095	↔	0.00452	0.247	↔	-0.00101	0.223	↔	2023-04-16	2023-10-23	0.585	↔
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	14	3	21%	-0.000210	0.423	↔	-0.00000506	0.971	↔	0.000000208	0.998	↔	2023-04-09	2023-12-29	0.271	↔
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	14	0	0%	-0.00109	0.046	↔	0.00114	0.259	↔	-0.000148	0.285	↔	2023-05-08	2023-08-29	0.542	↔
21_2_4_117	MW-11	Appendix IV	Mercury	mg/L	14	13	93%	-0.000000279	0.686	↔	0.00000848	0.144	↔	-0.00000243	0.091	↔	2024-01-17	2024-04-07	0.609	↔
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14	2	14%	-0.000000994	0.099	↔	0.00000448	0.201	↔	-0.00000430	0.409	↔	2023-05-23	2024-04-07	0.450	↔
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	13	4	31%	0.000389	0.820	↔	-0.00307	0.542	↔	0.000697	0.810	↔	2023-08-08	2024-02-25	0.389	↔
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	3	21%	-0.000000578	0.377	↔	0.00000187	0.400	↔	-0.00000119	0.014	↔	2023-07-24	2024-02-12	0.637	↔
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	14	13	93%	0.00000213	0.201	↔	-0.00000264	0.303	↔	0	0.992	↔	2023-04-15	2023-07-23	0.470	↔
21_2_5_114	MW-11	Part 115	Iron	mg/L	14	0	0%	-0.0404	0.036	↔	0.0382	0.275	↔	-0.00250	0.594	↔	2023-05-09	2023-10-13	0.663	↔
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0	0%	-0.0000275	0.403	↔	0.00000255	0.739	↔	-0.00000201	0.900	↔	2023-04-14	2024-04-12	0.244	↔
21_2_5_123	MW-11	Part 115	Silver	mg/L	14	12	86%	0.000000639	0.441	↔	-0.000000196	0.410	↔	-0.0000000143	0.988	↔	2023-04-18	2024-07-29	0.199	↔
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	14	12	86%	-0.000000890	0.741	↔	0.00000639	0.238	↔	-0.00000475	0.247	↔	2023-09-08	2024-04-07	0.452	↔
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	4	29%	-0.000484	0.368	↔	-0.0000250	0.723	↔	0.000189	0.274	↔	2023-03-13	2024-06-26	0.479	↔
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	14	0	0%	-0.00163	0.069	↔	0.000792	0.089	↔	-0.000580	0.149	↔	2023-05-22	2024-02-13	0.631	↔
22_2_3_120	MW-12	Appendix III	pH (field)	su	14	0	0%	0.00640	0.232	↔	-0.00441	0.791	↔	0.0000688	0.922	↔	2023-03-21	2023-06-23	0.214	↔
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	14	0	0%	-0.00000139	0.069	↔	0.000000145	0.937	↔	0.00000494	0.048	↔	2023-12-01	2024-07-26	0.770	↔
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	14	5	36%	-0.00000153	0.299	↔	0.00000304	0.149	↔	-0.00000164	0.166	↔	2023-07-26	2024-02-16	0.450	↔

(Table continues on next page)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00163	0.069	↔	0.000792	0.089	↔	-0.000580	0.149	↔	2023-05-22	2024-02-13	0.631	↔
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	14	6	43%	-0.000000190	0.403	↔	0.00000120	0.073	↔	-0.00000246	0.007	↓	2023-12-23	2024-10-07	0.769	↔
22_2_4_117	MW-12	Appendix IV	Mercury	mg/L	14	12	86%	-0.0000000253	0.749	↔	0.000000195	0.215	↔	-0.000000141	0.237	↔	2023-09-16	2024-04-08	0.457	↔
28_1_3_105	MW-18	Appendix III	Boron	mg/L	14	0	0%	-0.00150	0.674	↔	0.00486	0.002	↑	0.00139	0.248	↔	2023-03-31	2024-04-09	0.945	↔
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	14	0	0%	0.00651	0.126	↔	-0.00406	0.298	↔	0.00152	0.738	↔	2023-07-16	2024-04-12	0.360	↔
28_1_3_120	MW-18	Appendix III	pH (field)	su	14	0	0%	0.00211	0.402	↔	0.000230	0.149	↔	-0.000389	0.337	↔	2023-01-26	2024-06-23	0.618	↔
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	14	3	21%	0.000000996	0.534	↔	-0.000000277	0.538	↔	0.000000534	0.772	↔	2023-05-06	2024-09-27	0.119	↔
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	14	12	86%	0	0.762	↔	0.0000000162	0.323	↔	-0.0000000109	0.378	↔	2023-08-25	2024-04-10	0.386	↔
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	14	6	43%	0.000000316	0.805	↔	-0.000000404	0.411	↔	-0.0000000365	0.967	↔	2023-05-21	2024-06-14	0.249	↔
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	14	13	93%	0.000000242	0.085	↔	-0.0000000585	0.786	↔	0	0.872	↔	2023-05-22	2024-01-06	0.415	↔
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	14	0	0%	-0.0000278	0.004	↓	-0.00000213	0.583	↔	-0.000000245	0.895	↔	2023-04-17	2023-10-28	0.917	↔
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	0.00651	0.126	↔	-0.00406	0.298	↔	0.00152	0.738	↔	2023-07-16	2024-04-12	0.360	↔
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	14	0	0%	-0.000214	0.224	↔	0.000127	0.248	↔	-0.00000606	0.721	↔	2023-03-12	2023-06-27	0.389	↔
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.0000339	0.696	↔	0.0000407	0.461	↔	-0.00000338	0.700	↔	2023-02-11	2023-08-07	0.355	↔
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	13	8	62%	0.00356	0.093	↔	-0.00161	0.382	↔	0.000196	0.859	↔	2023-04-18	2023-12-19	0.489	↔
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	14	0	0%	-0.000000755	0.738	↔	0.00000474	0.474	↔	-0.000000399	0.095	↔	2023-08-08	2024-03-22	0.450	↔
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	14	14	100%	0.00000289	0.375	↔	-0.000000995	0.872	↔	-0.000000111	0.657	↔	2023-02-08	2023-05-03	0.151	↔
28_1_5_114	MW-18	Part 115	Iron	mg/L	14	0	0%	-0.0455	0.001	↓	0.0294	0.357	↔	0.00322	0.036	↔	2023-04-10	2023-06-06	0.866	↔
28_1_5_119	MW-18	Part 115	Nickel	mg/L	14	0	0%	-0.0000425	0.002	↓	-0.00000325	0.246	↔	0.00000684	0.542	↔	2023-04-18	2024-07-31	0.890	↔
28_1_5_123	MW-18	Part 115	Silver	mg/L	14	14	100%	0.00000178	0.663	↔	-0.000000383	0.685	↔	-0.0000000539	0.799	↔	2023-02-07	2023-07-16	0.150	↔
28_1_5_129	MW-18	Part 115	Zinc	mg/L	14	0	0%	-0.000236	0.087	↔	-0.0000490	0.187	↔	0.000105	0.476	↔	2023-04-18	2024-08-28	0.717	↔
29_1_3_105	MW-19	Appendix III	Boron	mg/L	14	0	0%	-0.00907	0.104	↔	0.00612	0.710	↔	0.000297	0.671	↔	2023-03-27	2023-06-27	0.410	↔
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.213	0.003	↓	0.0515	0.573	↔	-0.0297	0.261	↔	2023-06-01	2023-10-24	0.845	↔
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	-6.13	0.483	↔	0.323	0.863	↔	-0.122	0.773	↔	2023-02-07	2023-07-24	0.366	↔
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	14	12	86%	0.00000274	0.388	↔	-0.000000643	0.258	↔	0.00000199	0.442	↔	2023-04-17	2024-08-20	0.329	↔
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	14	0	0%	-0.0000253	0.267	↔	0.0000431	0.544	↔	-0.00000221	0.466	↔	2023-04-15	2023-06-27	0.345	↔
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000907	0.469	↔	0.0000000508	0.966	↔	-0.000000379	0.406	↔	2023-05-04	2024-02-12	0.219	↔
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	14	5	36%	-0.00000105	0.258	↔	0.000000309	0.770	↔	-0.0000000503	0.817	↔	2023-10-06	2024-09-08	0.308	↔
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	14	1	7%	0.00000800	0.356	↔	-0.00000134	0.006	↓	0.000000563	0.027	↔	2023-01-09	2024-08-08	0.765	↔
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	14	14	100%	0.0000111	0.007	↑	-0.0000109	0.048	↔	0.000000348	0.490	↔	2023-03-16	2023-06-28	0.778	↔
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.0000588	0.640	↔	-0.00000491	0.499	↔	0.0000486	0.029	↔	2023-01-15	2024-07-03	0.616	↔
29_1_5_111	MW-19	Part 115	Copper	mg/L	14	12	86%	0.0000118	0.120	↔	-0.0000107	0.165	↔	0.000000122	0.617	↔	2023-02-01	2023-04-03	0.642	↔
29_1_5_114	MW-19	Part 115	Iron	mg/L	14	0	0%	-0.0336	0.144	↔	0.0555	0.221	↔	-0.00727	0.242	↔	2023-05-03	2023-10-23	0.737	↔
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	1	7%	-0.0000143	0.342	↔	0.0000405	0.043	↔	-0.0000428	0.252	↔	2023-10-02	2024-07-18	0.602	↔
29_1_5_123	MW-19	Part 115	Silver	mg/L	14	14	100%	0.00000251	0.255	↔	-0.0000000552	0.677	↔	-0.0000000784	0.715	↔	2023-02-09	2023-08-06	0.282	↔
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	14	14	100%	0.0000136	0.664	↔	-0.000000351	0.321	↔	0.00000109	0.662	↔	2023-02-07	2023-12-23	0.267	↔
29_1_5_129	MW-19	Part 115	Zinc	mg/L	14	10	71%	0.0000194	0.771	↔	-0.00000620	0.132	↔	0.0000146	0.174	↔	2023-02-07	2024-05-16	0.409	↔
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	14	0	0%	0.317	0.325	↔	-0.599	0.541	↔	0.0441	0.313	↔	2023-03-25	2023-06-27	0.432	↔
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	0.0888	0.493	↔	-0.0512	0.306	↔	-0.126	0.177	↔	2023-05-20	2024-07-16	0.621	↔
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0	0%	-0.00829	0.002	↓	0.0000667	0.549	↔	-0.000234	0.428	↔	2023-01-08	2024-04-27	0.860	↔
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	14	0	0%	1.13	0.028	↔	-0.680	0.136	↔	-0.00317	0.933	↔	2023-02-16	2023-06-27	0.769	↔
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	14	4	29%	-0.000000830	0.408	↔	0.000000996	0.338	↔	-0.0000000181	0.605	↔	2023-01-30	2023-04-17	0.589	↔

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	14	0	0%	0.000000664	0.913	↔	0.00000381	0.298	↔	-0.00000682	0.029	↔	2024-04-07	2024-09-24	0.545	↔
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	14	14	100%	0.000000221	0.006	↑	0	1.000	↔	0	1.000	↔	2023-07-31	2024-09-12	0.836	↔
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	14	6	43%	0.00000117	0.054	↔	0.00000235	0.068	↔	0.000000296	0.477	↔	2023-05-09	2023-03-03	0.575	↔
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	14	0	0%	0.00000371	0.167	↔	-0.00000296	0.021	↔	-0.000000595	0.084	↔	2023-03-02	2023-08-07	0.876	↔
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0	0%	-0.00829	0.002	↓	0.0000667	0.549	↔	-0.000234	0.428	↔	2023-01-08	2024-04-27	0.860	↔
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	14	0	0%	0.00000422	0.096	↔	-0.00000690	0.384	↔	0.00000125	0.386	↔	2023-06-28	2023-12-22	0.546	↔
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	14	0	0%	-0.000381	0.214	↔	0.000183	0.523	↔	-0.0000574	0.045	↔	2023-02-08	2023-06-27	0.502	↔
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	14	0	0%	0.00000463	0.096	↔	-0.00000455	0.541	↔	0.00000541	0.051	↔	2023-09-01	2024-04-07	0.594	↔
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	13	7	54%	-0.0185	0.043	↔	0.000905	0.324	↔	-0.00126	0.244	↔	2023-01-21	2024-01-19	0.756	↔
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	14	8	57%	-0.000000615	0.034	↔	0.000000422	0.236	↔	-0.000000305	0.141	↔	2023-07-30	2024-02-13	0.678	↔
30_1_5_119	MW-20	Part 115	Nickel	mg/L	14	0	0%	-0.00000749	0.029	↔	0.00000868	0.289	↔	-0.0000185	0.075	↔	2024-02-12	2024-08-05	0.832	↔
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0	0%	0.00293	0.803	↔	-0.00107	0.371	↔	-0.00102	0.867	↔	2023-03-12	2024-08-01	0.222	↔
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0	0%	2.34	0.256	↔	-1.62	0.385	↔	0.644	0.120	↔	2023-03-13	2023-10-09	0.420	↔
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.594	0.013	↔	0.145	0.114	↔	5.83	0.000	↑	2023-06-17	2024-08-29	0.995	↔
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0	0%	0.00315	0.488	↔	-0.0000488	0.932	↔	-0.00103	0.459	↔	2023-03-12	2024-05-29	0.336	↔
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	2	14%	-0.00000282	0.113	↔	0.000000638	0.192	↔	0.00000913	0.001	↑	2023-04-18	2024-08-29	0.932	↔
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	14	0	0%	-0.000424	0.045	↔	-0.00000640	0.881	↔	0.000215	0.038	↔	2023-03-27	2024-07-17	0.755	↔
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	14	14	100%	0.00000100	0.433	↔	-0.000000216	0.547	↔	0.00000210	0.179	↔	2023-05-21	2024-10-08	0.392	↔
40_1_4_117	MW-30	Appendix IV	Mercury	mg/L	14	13	93%	-0.000000864	0.740	↔	0.000000621	0.233	↔	-0.000000461	0.244	↔	2023-09-09	2024-04-07	0.455	↔
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	14	7	50%	-0.00000150	0.381	↔	0.000000118	0.917	↔	0.00000186	0.579	↔	2023-06-27	2024-09-21	0.204	↔
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	14	14	100%	0.00000246	0.055	↔	-0.00000210	0.363	↔	0.000000495	0.141	↔	2023-05-08	2023-10-05	0.565	↔
40_1_5_114	MW-30	Part 115	Iron	mg/L	14	0	0%	0.0533	0.099	↔	-0.0334	0.472	↔	0.00215	0.644	↔	2023-03-13	2023-07-02	0.361	↔
40_1_5_123	MW-30	Part 115	Silver	mg/L	14	14	100%	0.00000215	0.634	↔	-0.000000216	0.299	↔	0.00000133	0.267	↔	2023-02-05	2024-09-24	0.323	↔
40_1_5_129	MW-30	Part 115	Zinc	mg/L	14	10	71%	-0.0000136	0.186	↔	0	1.000	↔	0.000733	0.000	↑	2023-07-23	2024-10-13	0.997	↔
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	14	0	0%	-0.189	0.062	↔	0.169	0.081	↔	-0.144	0.191	↔	2023-07-31	2024-04-08	0.603	↔
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	14	0	0%	-0.141	0.463	↔	-0.0114	0.721	↔	0.0498	0.214	↔	2023-03-12	2024-04-07	0.425	↔
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	14	6	43%	0.000000491	0.378	↔	-0.0000000515	0.760	↔	0.00000171	0.000	↑	2023-04-07	2024-03-22	0.969	↔
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	14	12	86%	-0.0000000446	0.685	↔	0.0000000441	0.177	↔	-0.000000146	0.269	↔	2023-04-18	2024-10-14	0.402	↔
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	14	13	93%	-0.000000170	0.664	↔	0.000000348	0.003	↑	0	0.827	↔	2023-02-01	2023-07-07	0.896	↔
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	14	12	86%	-0.000000483	0.053	↔	0.000000680	0.267	↔	-0.000000554	0.437	↔	2023-12-31	2024-07-17	0.553	↔
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	14	6	43%	-0.000000664	0.455	↔	0.00000162	0.201	↔	-0.00000113	0.121	↔	2023-07-23	2024-02-12	0.435	↔
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	14	13	93%	0	0.795	↔	0.0000000306	0.641	↔	-0.0000000215	0.091	↔	2023-07-07	2024-02-11	0.415	↔
41_1_5_111	MW-31	Part 115	Copper	mg/L	14	9	64%	-0.0000000451	0.779	↔	0.00000122	0.329	↔	-0.000000528	0.110	↔	2023-11-10	2024-04-08	0.724	↔
41_1_5_119	MW-31	Part 115	Nickel	mg/L	14	10	71%	0	1.000	↔	0.00000396	0.147	↔	0.000153	0.000	↑	2023-08-25	2024-10-12	0.996	↔
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	14	0	0%	-0.678	0.112	↔	0.357	0.753	↔	-0.288	0.453	↔	2023-08-23	2024-03-14	0.436	↔
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	14	10	71%	0.0000000366	0.967	↔	0.00000140	0.647	↔	-0.000000989	0.095	↔	2023-07-14	2024-02-11	0.431	↔
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0	0%	-0.000000628	0.856	↔	0.00000409	0.497	↔	-0.00000321	0.080	↔	2023-06-19	2024-02-11	0.431	↔
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	14	0	0%	-0.00171	0.495	↔	0.000135	0.954	↔	0.00199	0.050	↔	2023-04-27	2024-02-11	0.562	↔
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	14	13	93%	0	0.797	↔	0.0000000424	0.640	↔	-0.0000000296	0.092	↔	2023-07-07	2024-02-11	0.414	↔
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	14	13	93%	0.0000000268	0.967	↔	0.000000279	0.146	↔	-0.000000193	0.098	↔	2023-03-10	2024-02-11	0.641	↔
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0	0%	0.000000505	0.835	↔	0.00000287	0.400	↔	-0.00000248	0.208	↔	2023-07-16	2024-02-12	0.353	↔
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	14	0	0%	-0.000409	0.239	↔	0.000833	0.564	↔	-0.00000870	0.907	↔	2023-05-06	2023-07-11	0.279	↔

(Table continues on next page)

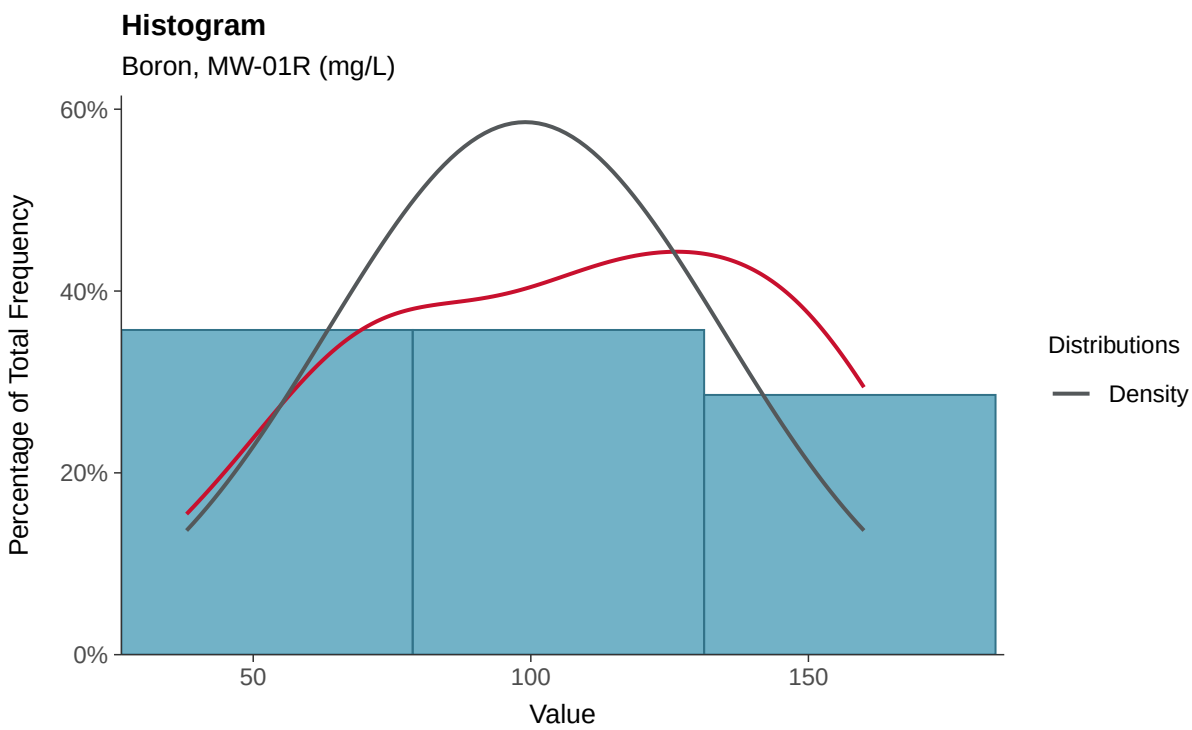
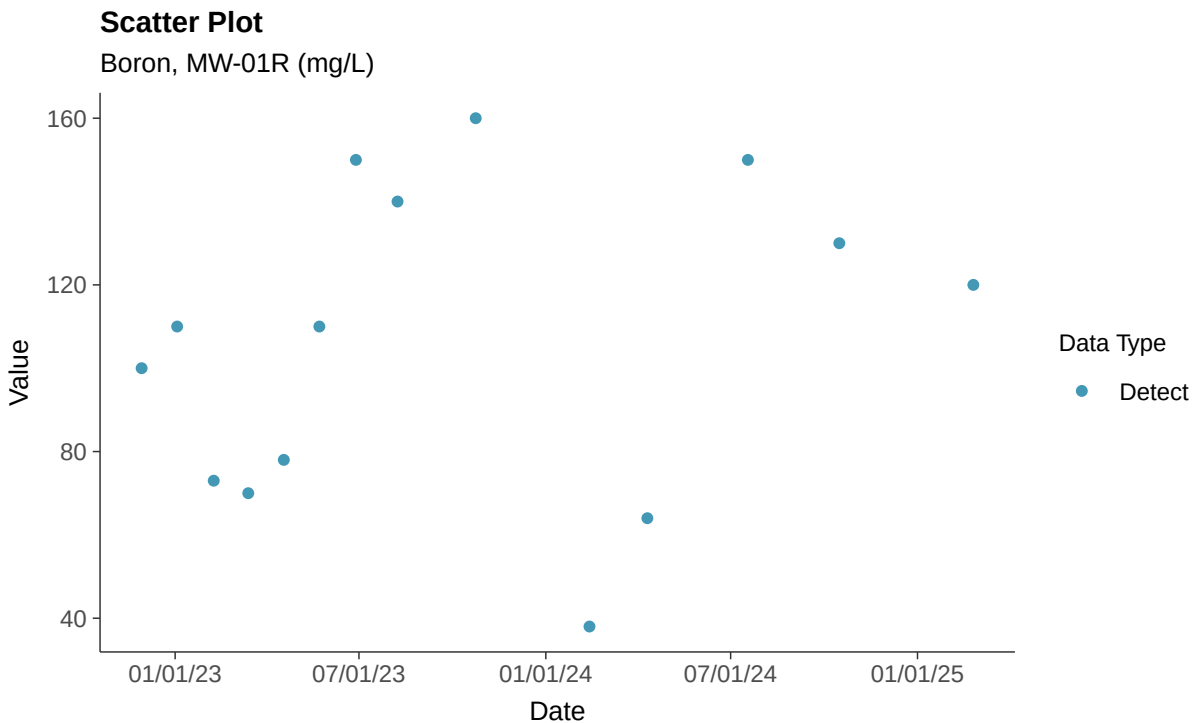
Table 10: Trend Tests: Piecewise Linear-Linear-Linear (continued)

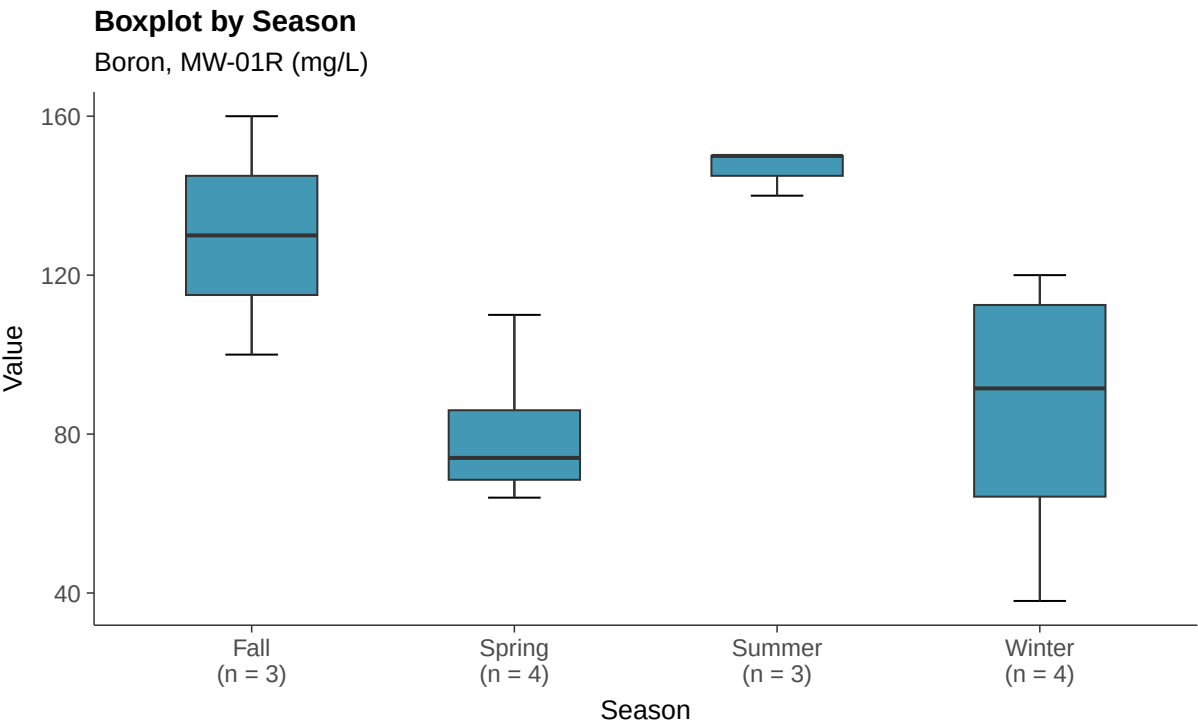
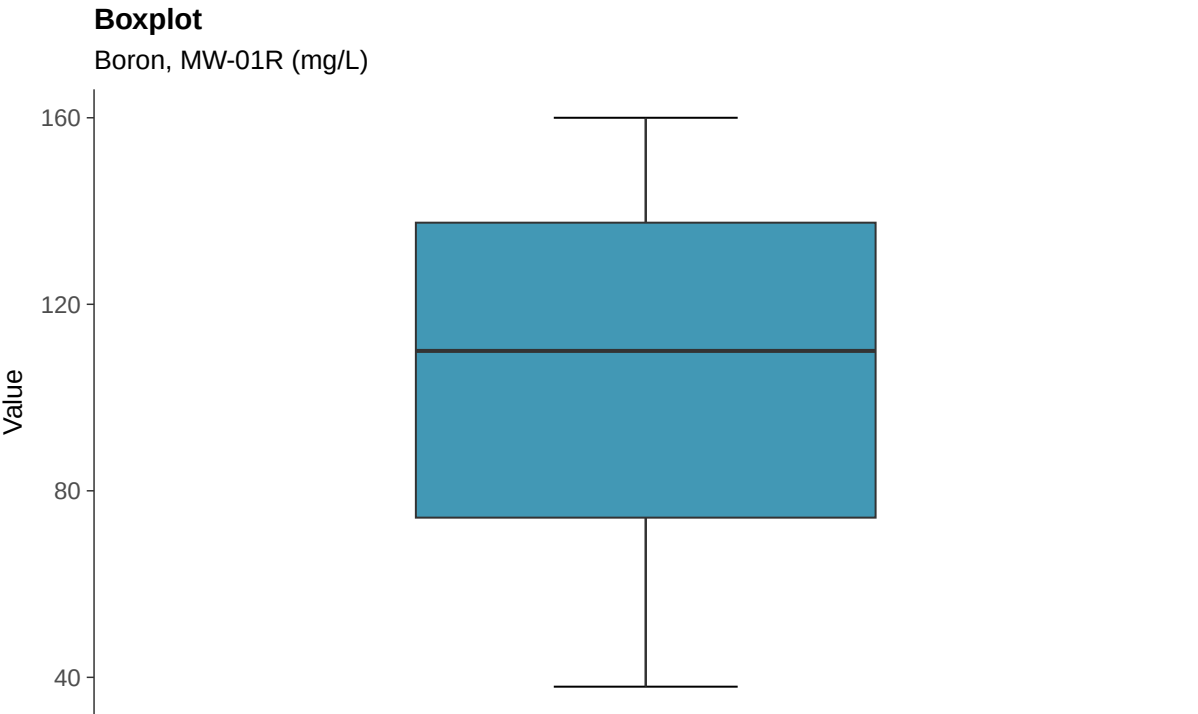
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
42_1_4_117	MW-32	Appendix IV	Mercury	mg/L	14	13	93%	-0.000000655	0.741	↔	0.00000469	0.234	↔	-0.00000348	0.244	↔	2023-09-09	2024-04-07	0.453	↔
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0	0%	-0.0000308	0.474	↔	0.00000567	0.260	↔	-0.00000797	0.045	↔	2023-01-25	2024-02-11	0.502	↔
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	14	11	79%	-0.000000972	0.460	↔	0.00000224	0.229	↔	-0.00000149	0.162	↔	2023-07-15	2024-02-12	0.401	↔
42_1_5_111	MW-32	Part 115	Copper	mg/L	14	8	57%	-0.00000573	0.803	↔	0.0000377	0.252	↔	-0.0000260	0.167	↔	2023-07-09	2024-02-12	0.422	↔
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0	0%	-0.00000881	0.783	↔	0.0000585	0.206	↔	-0.0000377	0.153	↔	2023-07-30	2024-02-12	0.423	↔
42_1_5_129	MW-32	Part 115	Zinc	mg/L	14	0	0%	-0.0000565	0.477	↔	0.000000592	0.994	↔	0.000278	0.013	↔	2023-07-21	2024-06-10	0.765	↔

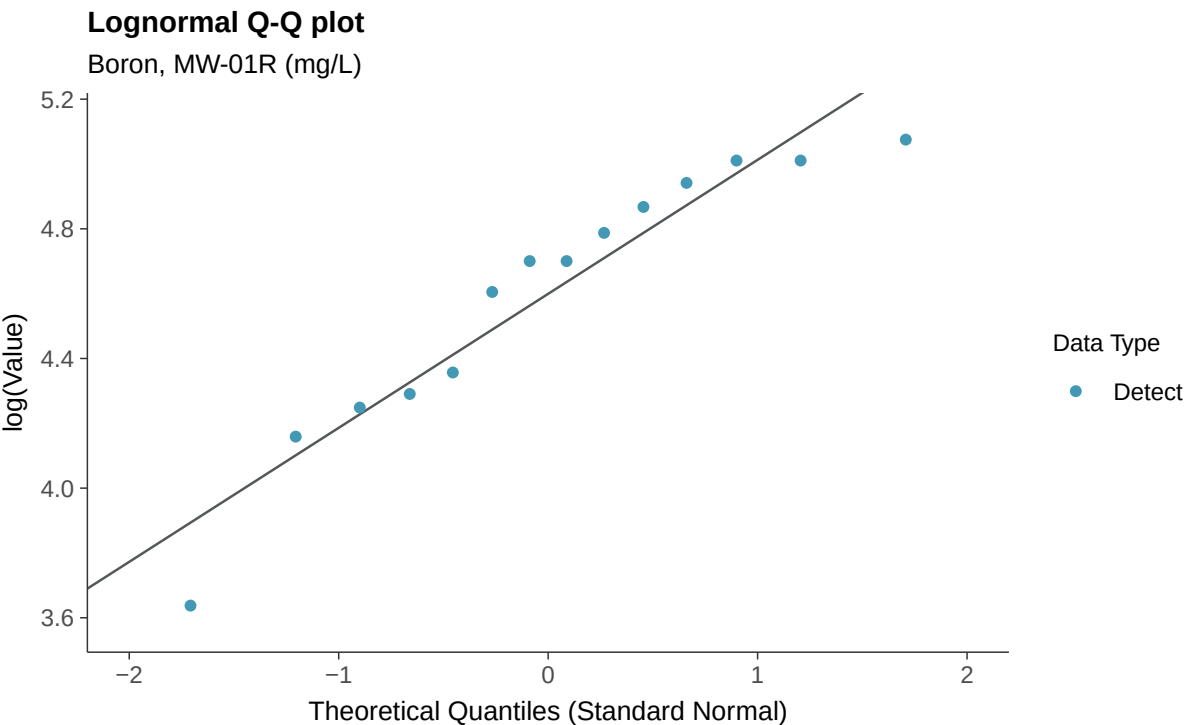
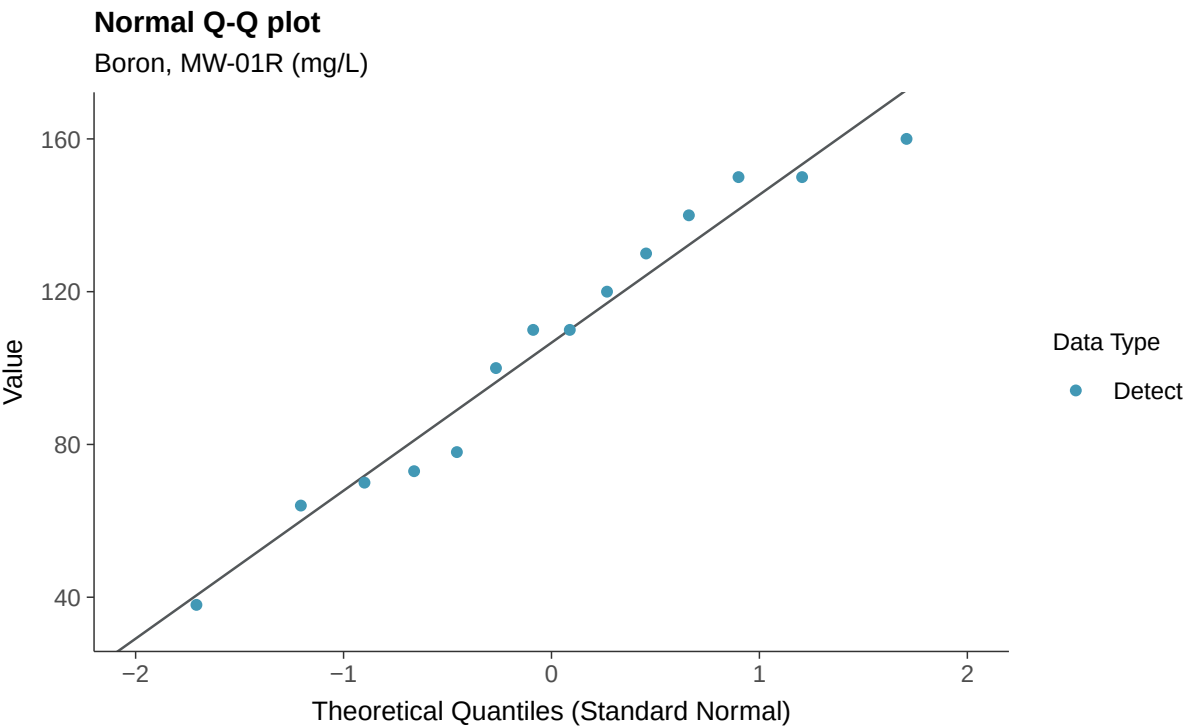


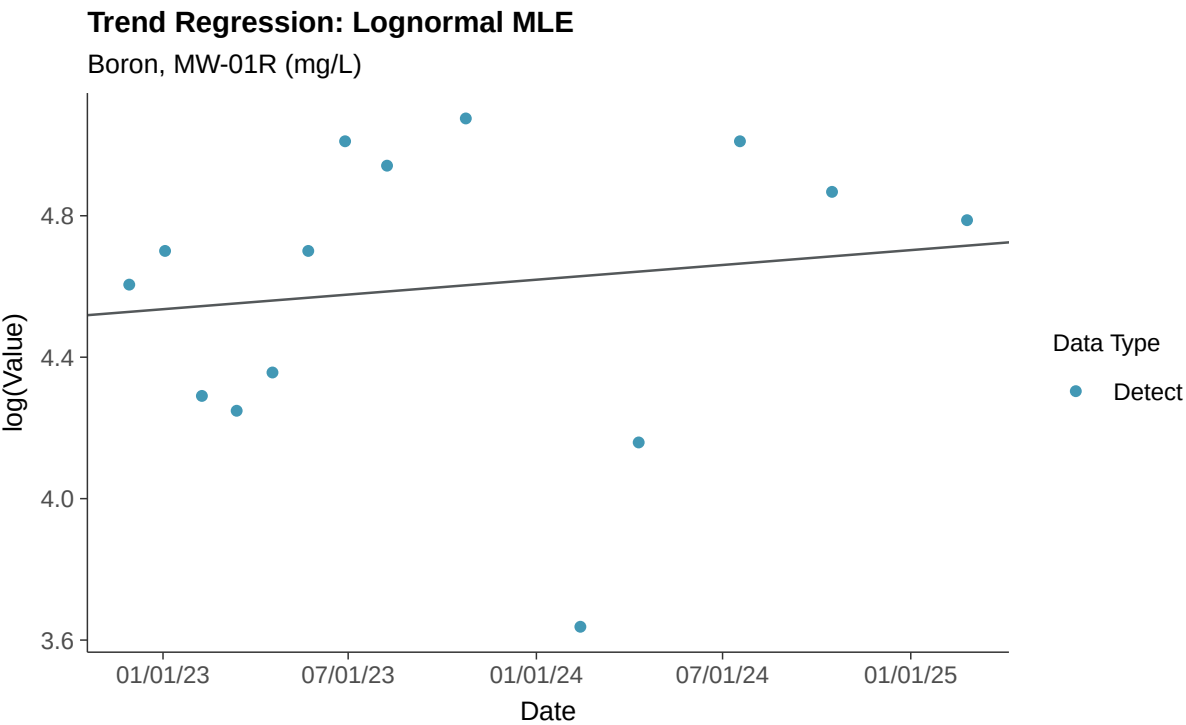
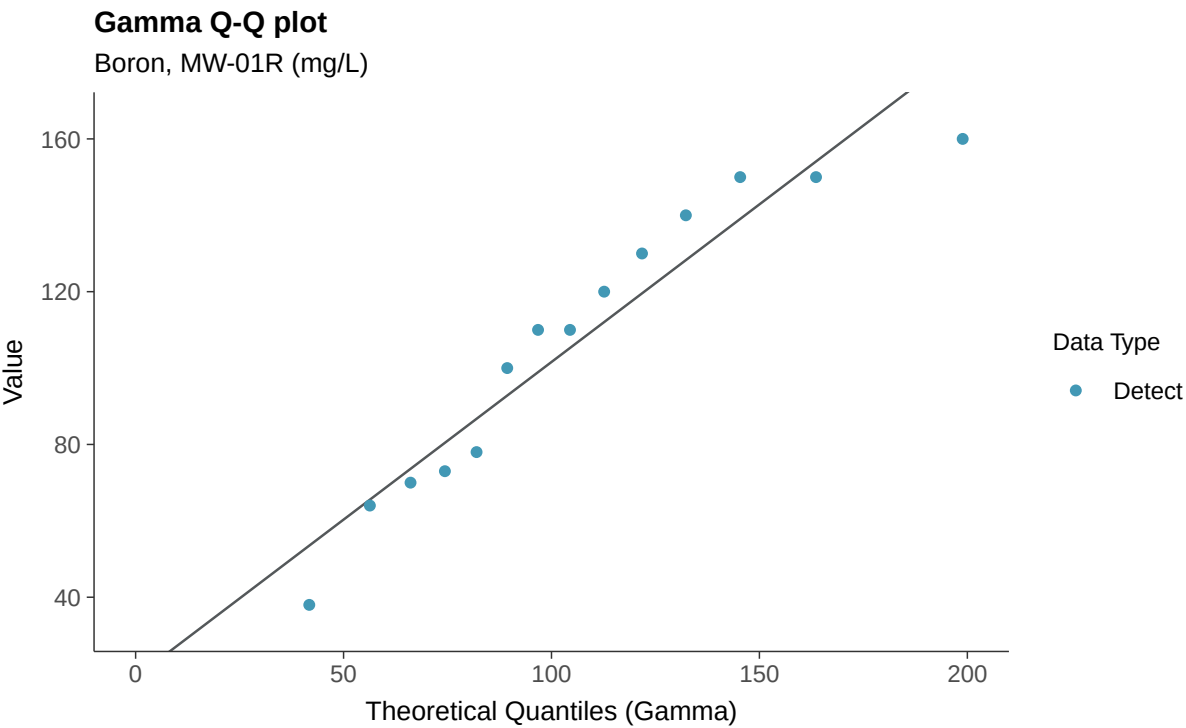
Appendix III: Boron, MW-01R

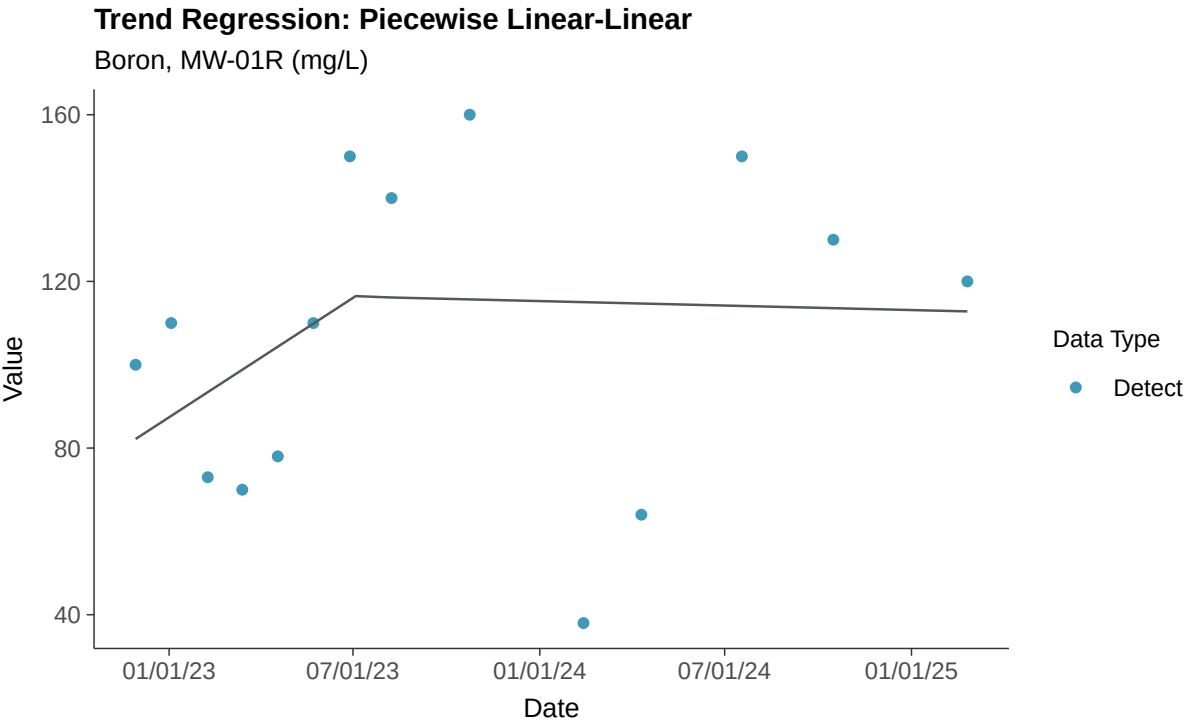
ID: 11_2_3_105







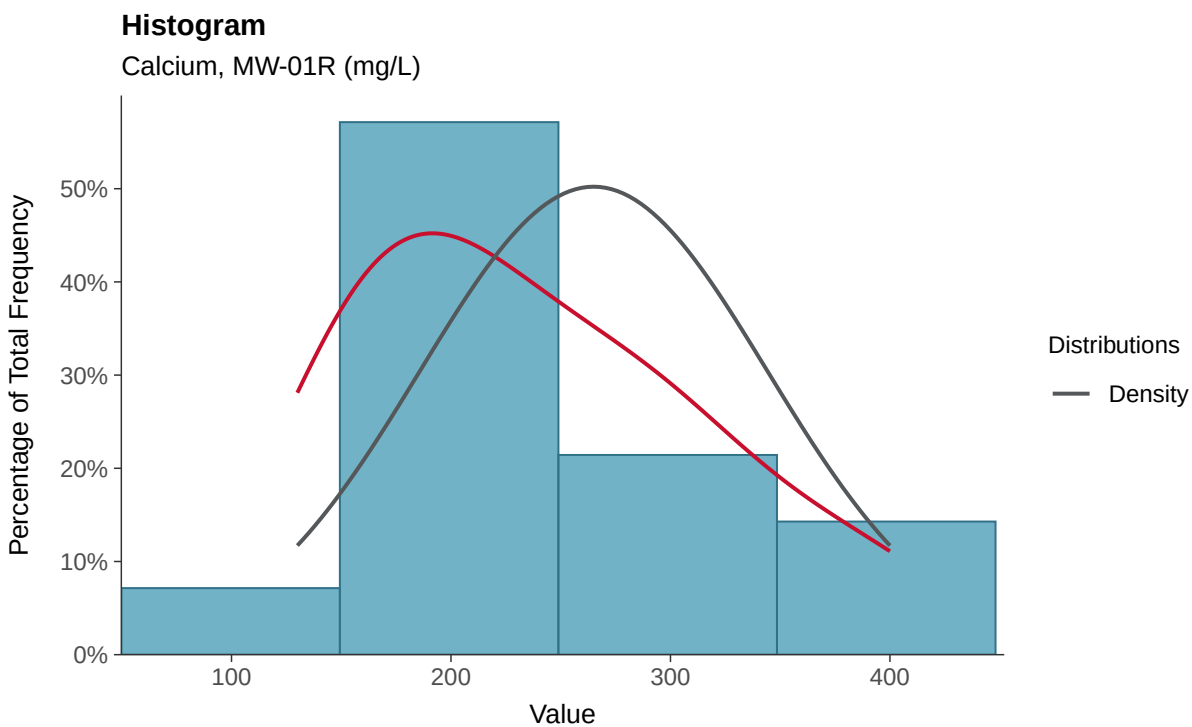
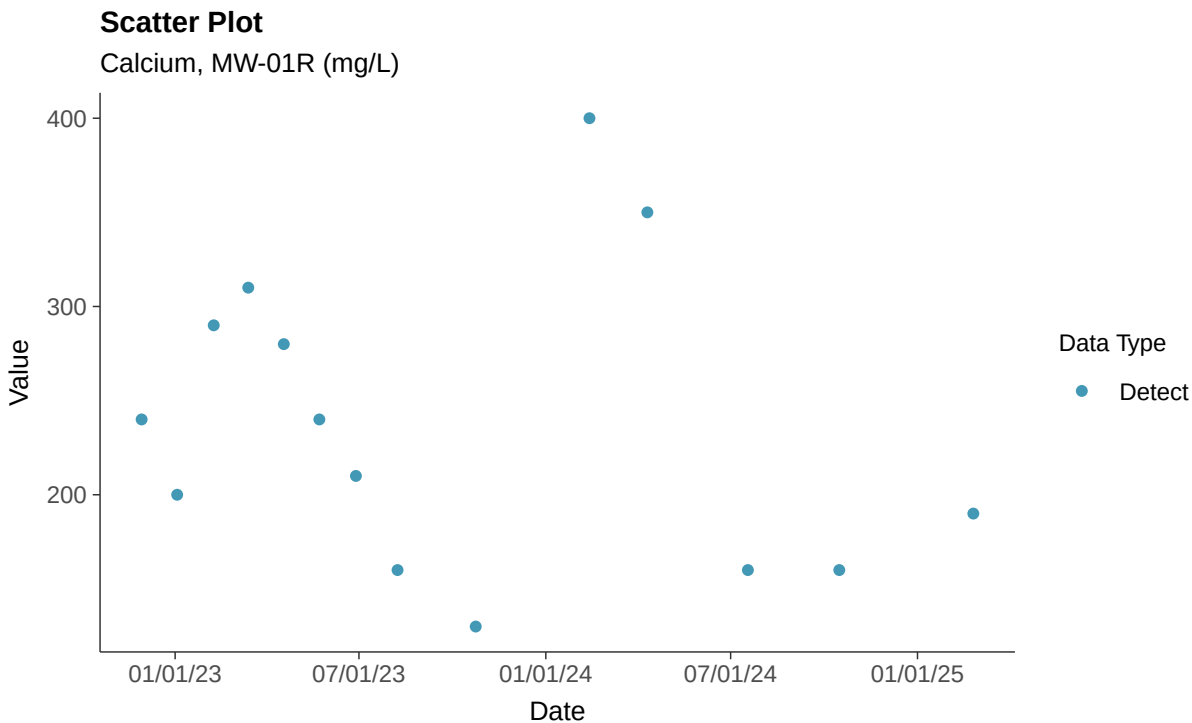


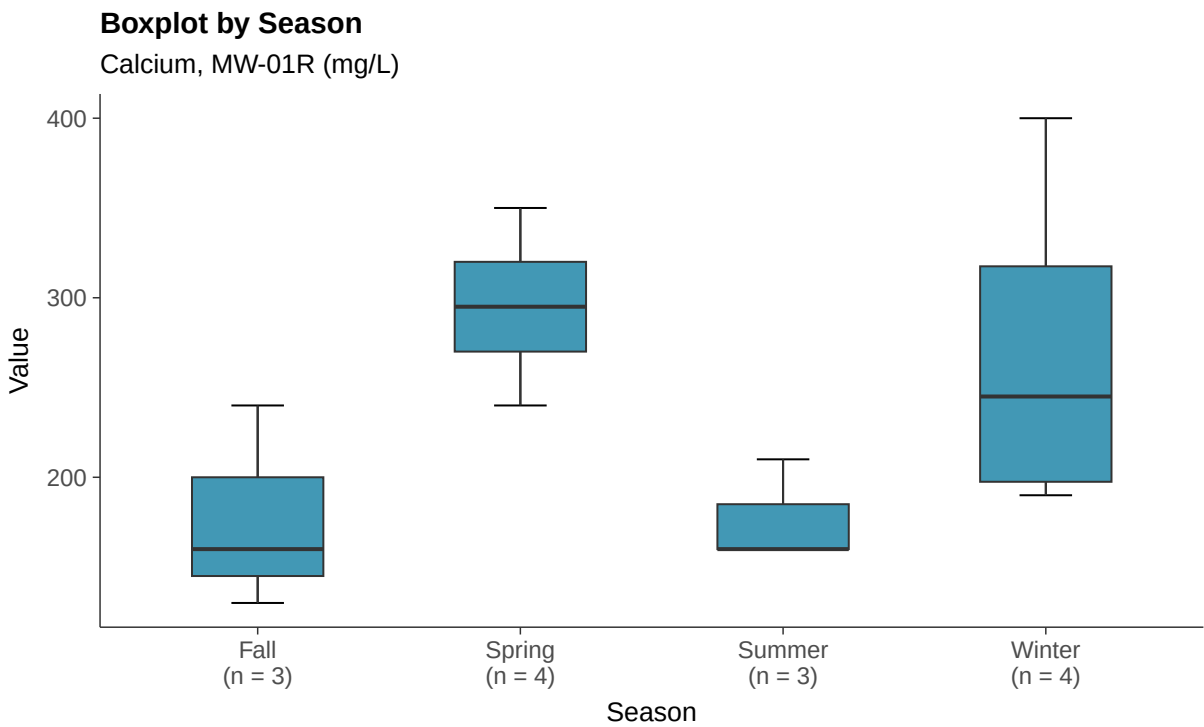
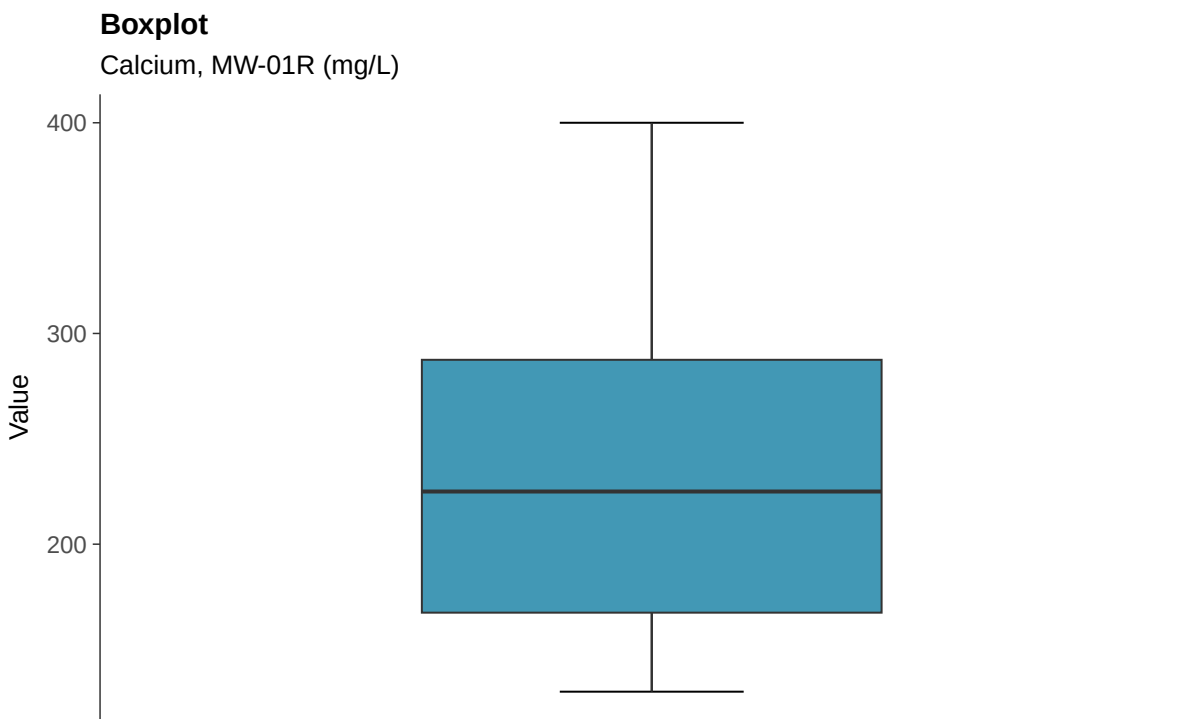


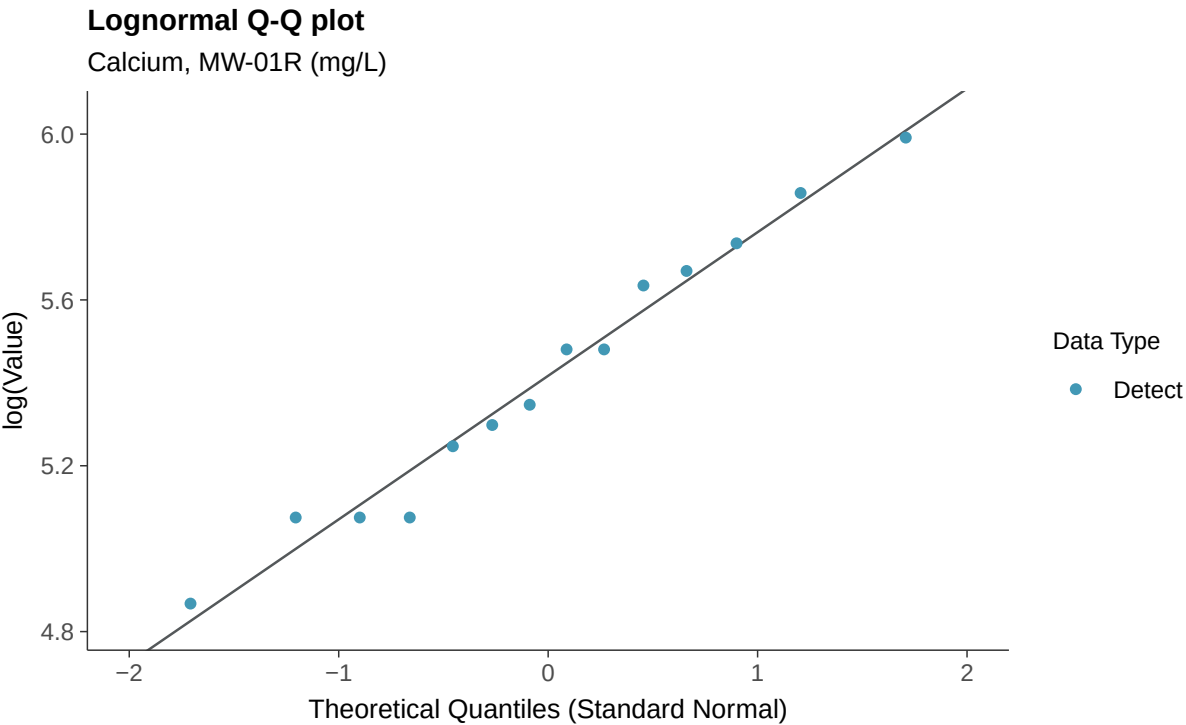
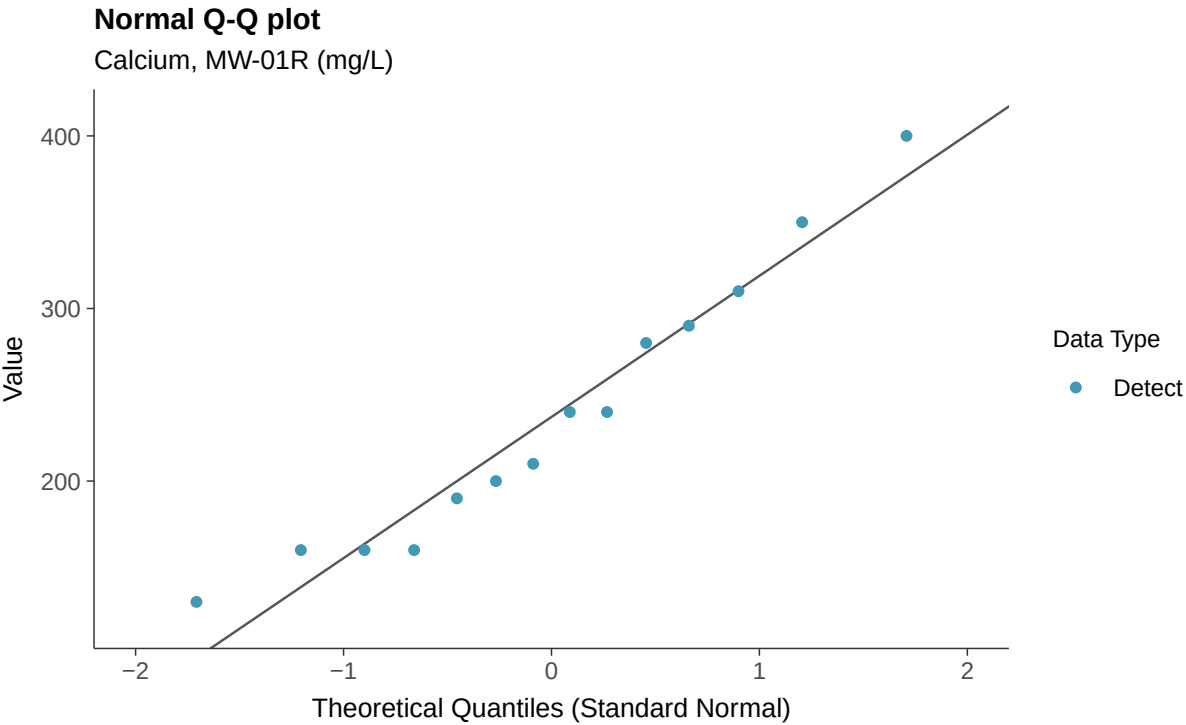


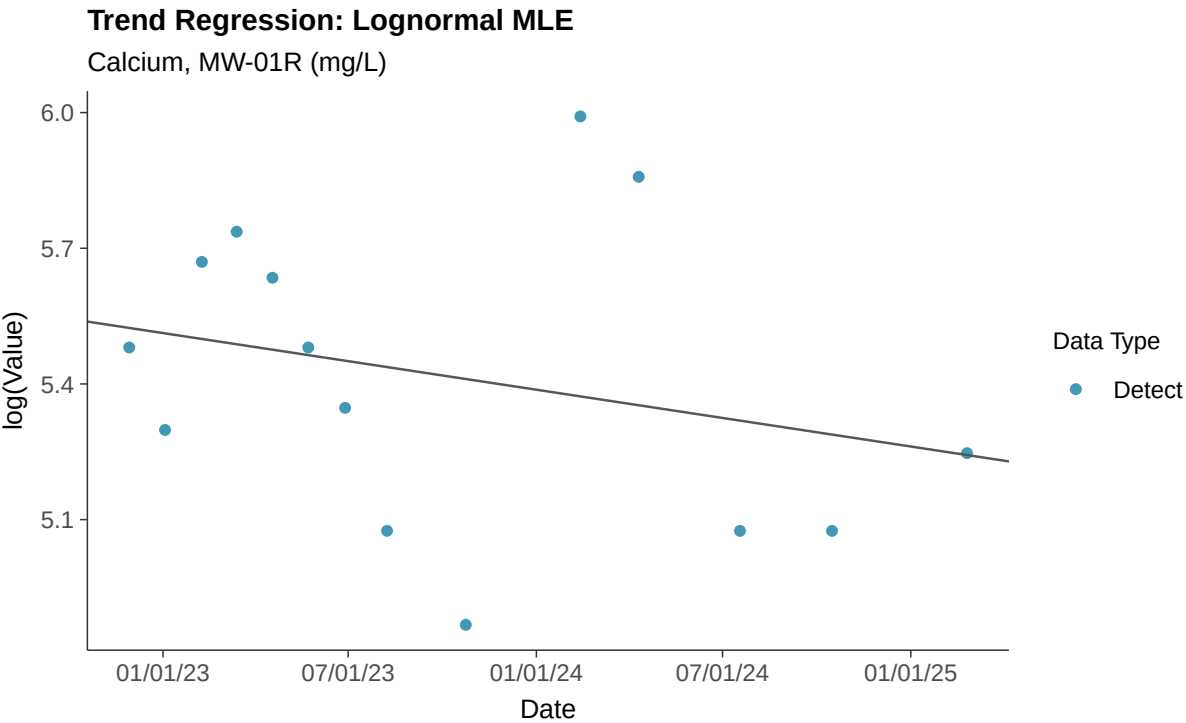
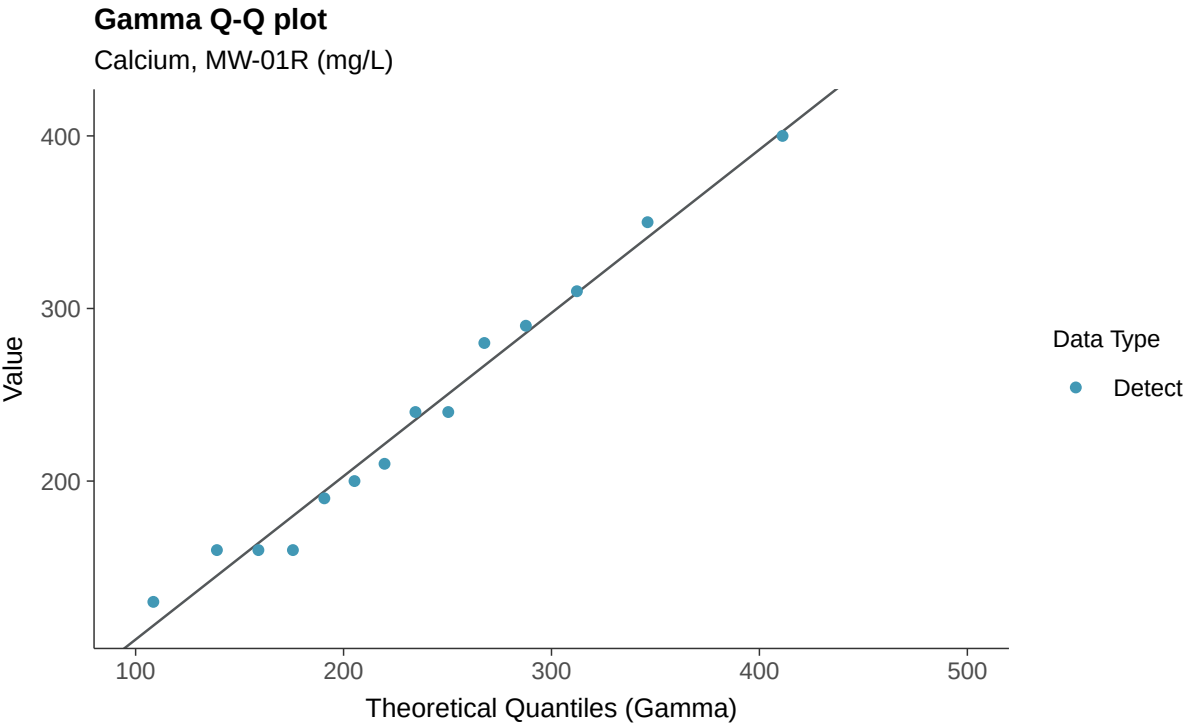
Appendix III: Calcium, MW-01R

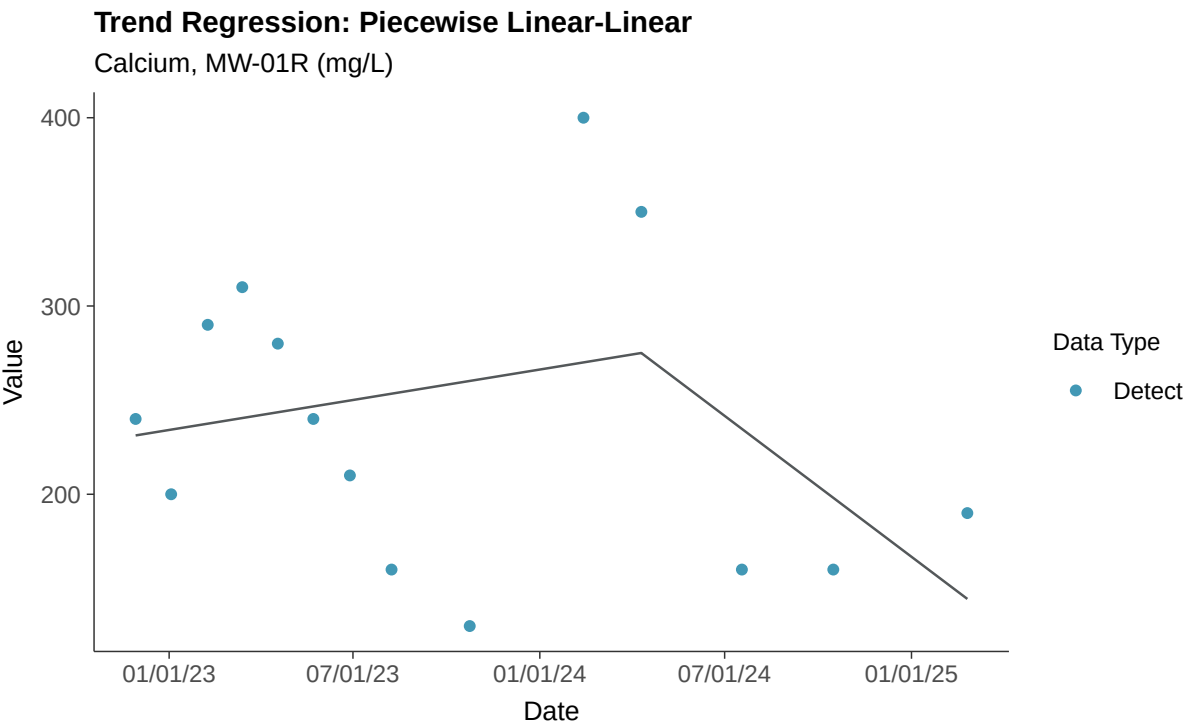
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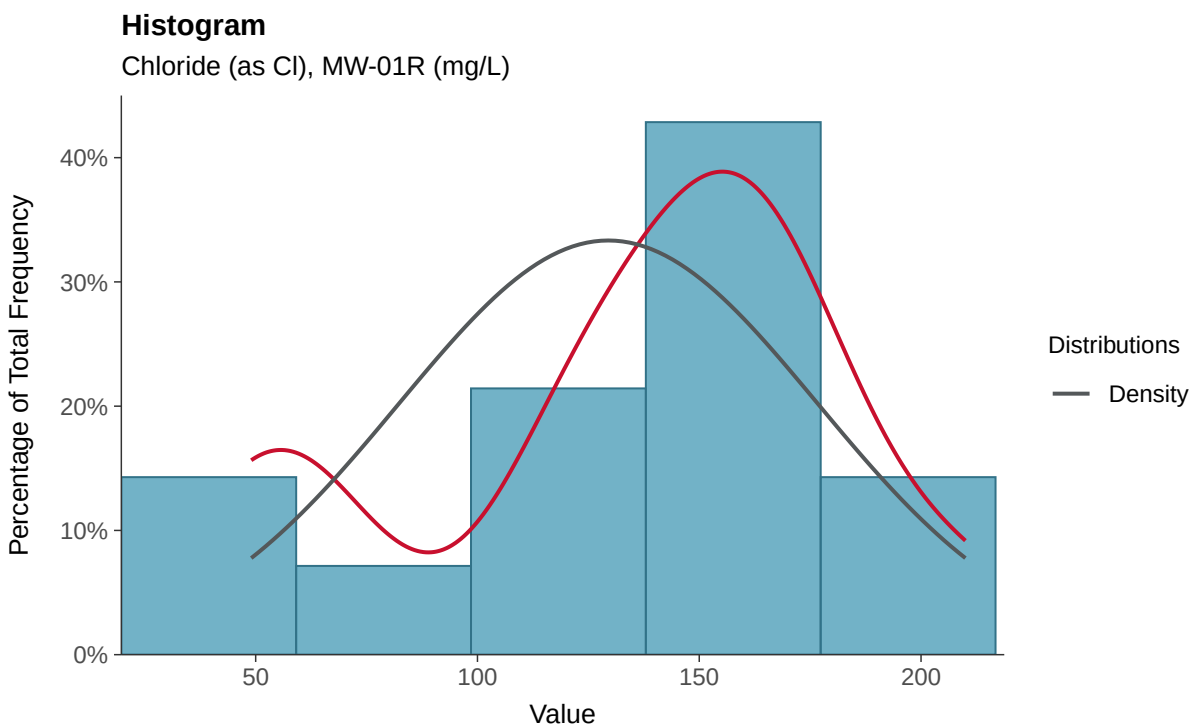
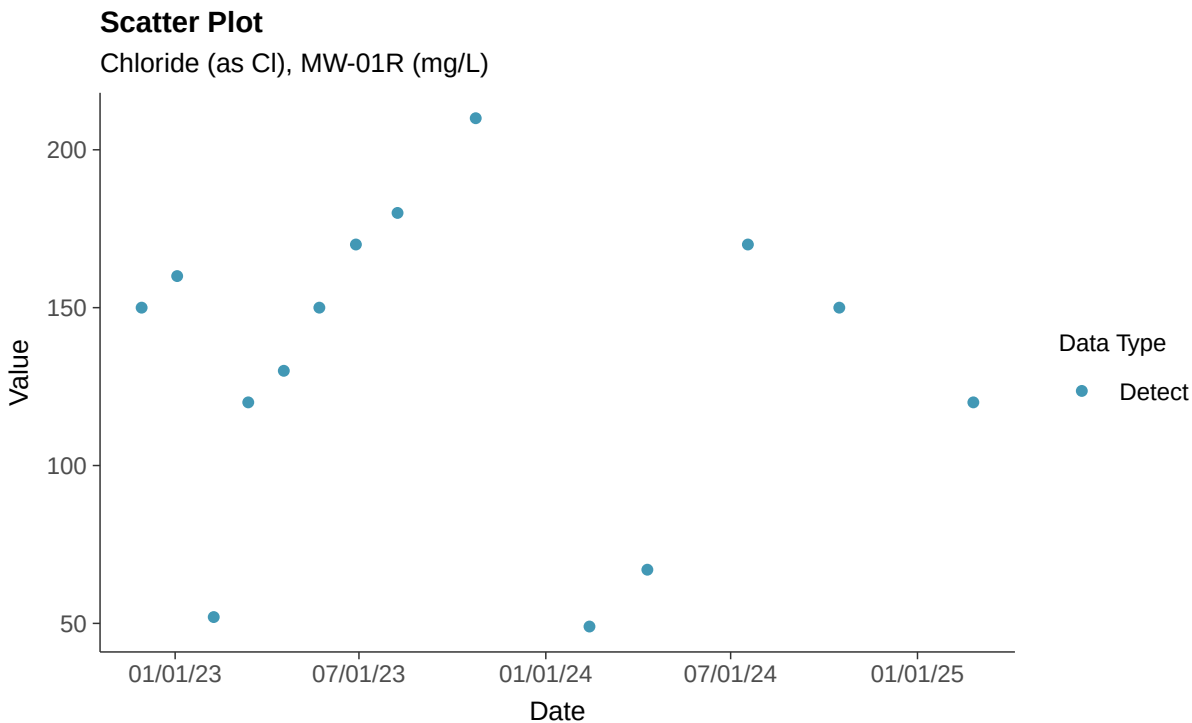


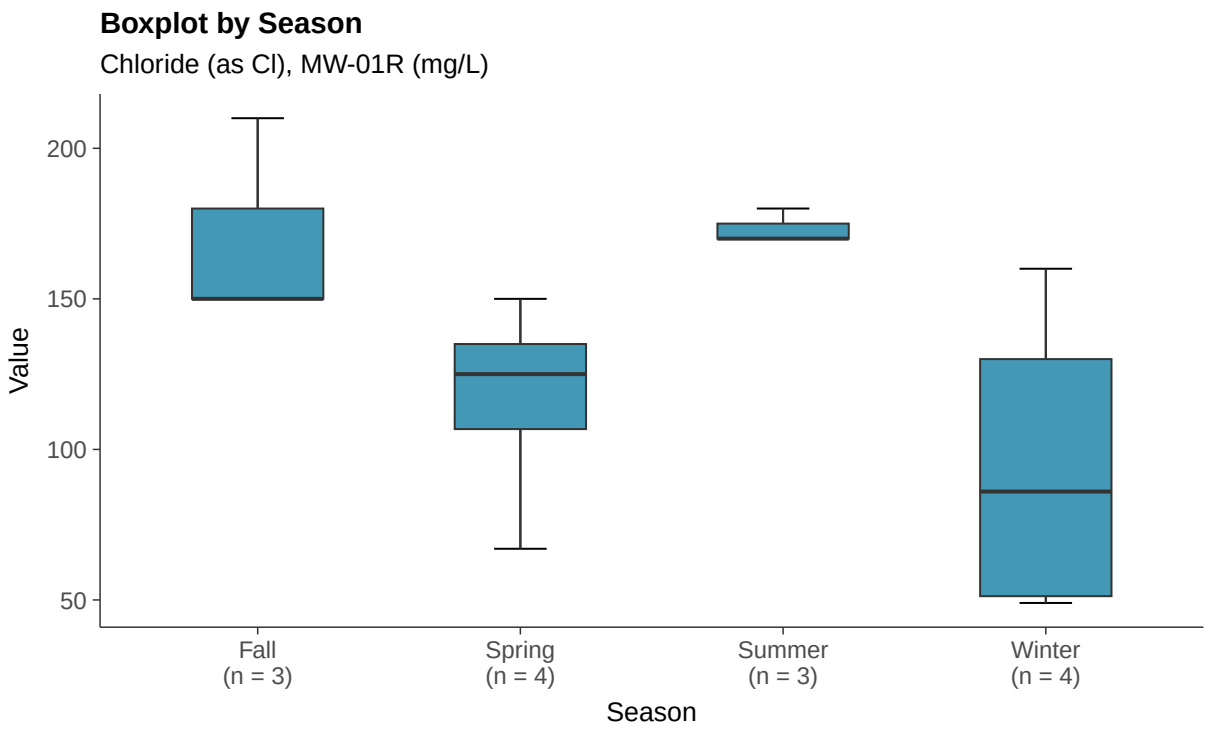
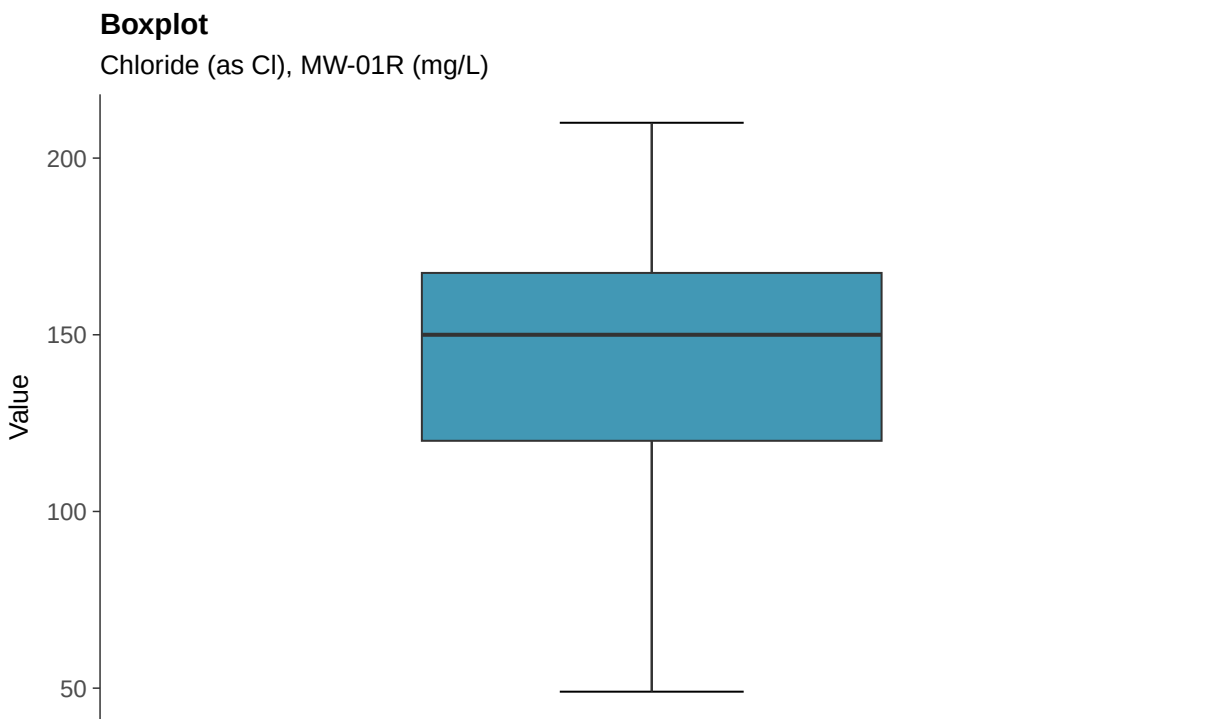


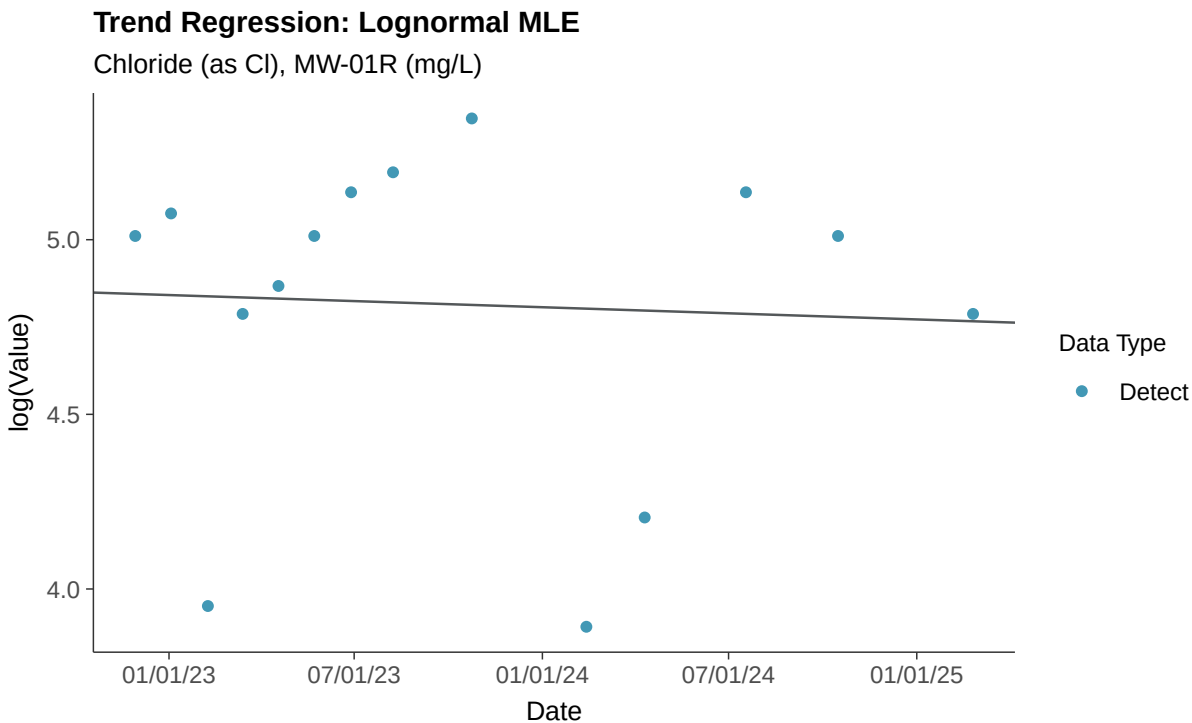
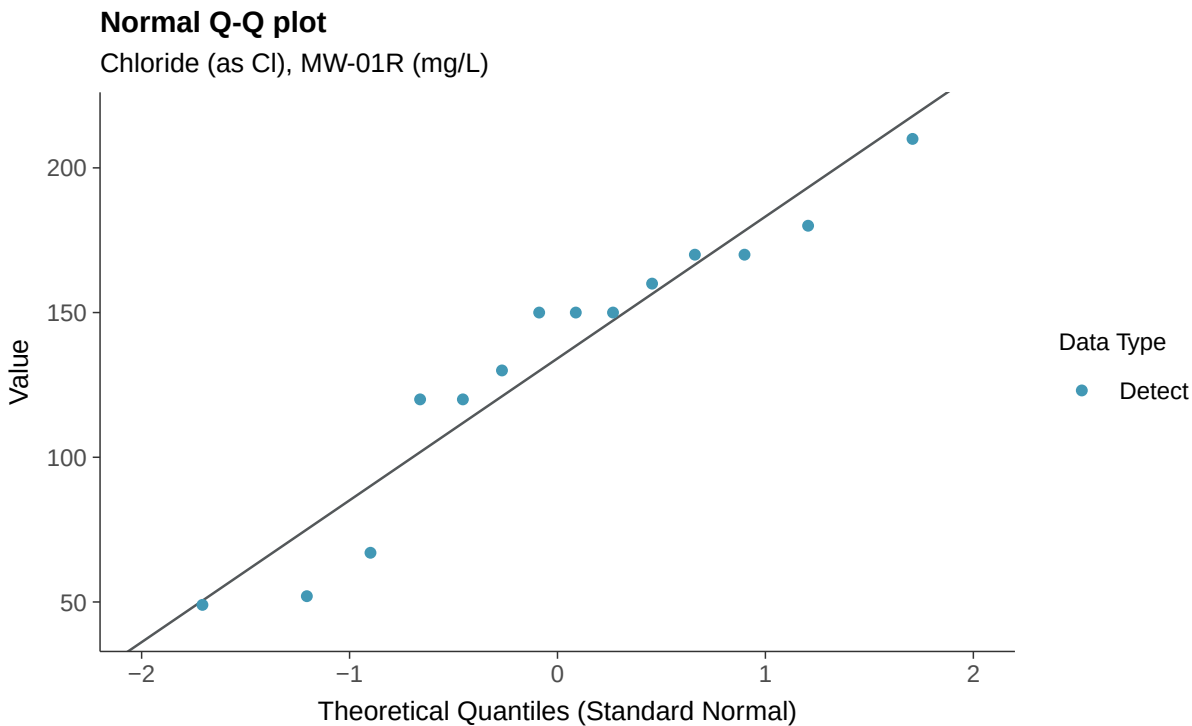


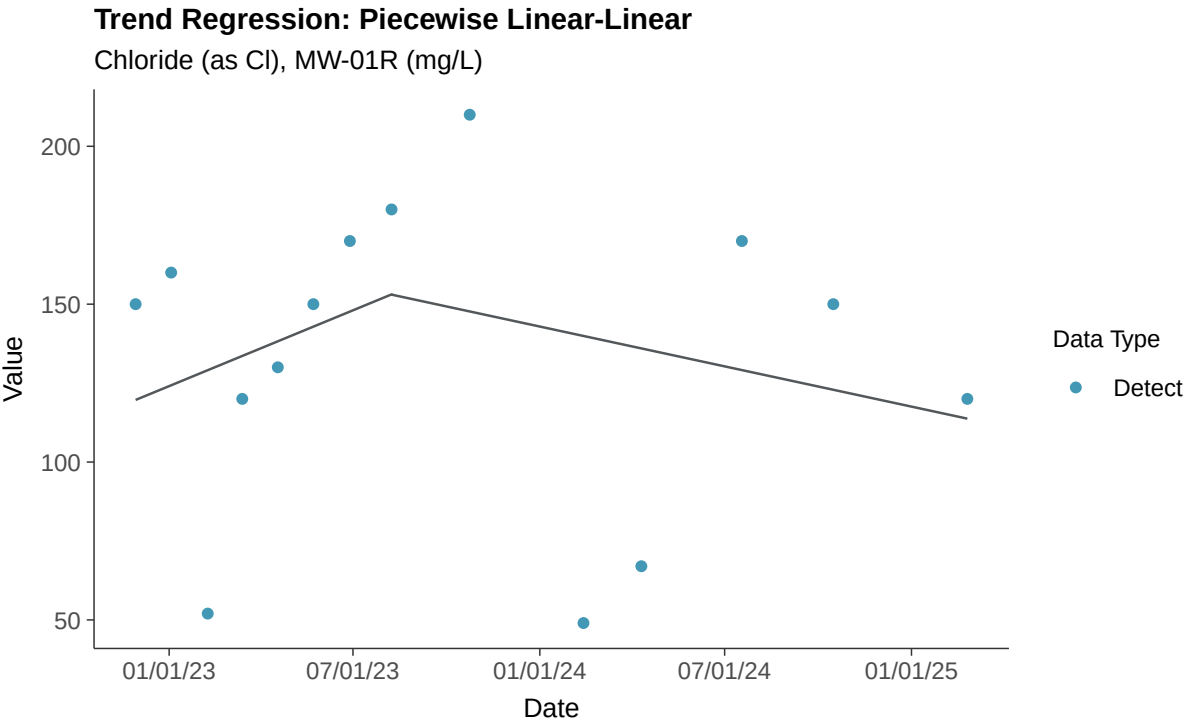
Appendix III: Chloride (as Cl), MW-01R

ID: 11_2_3_108





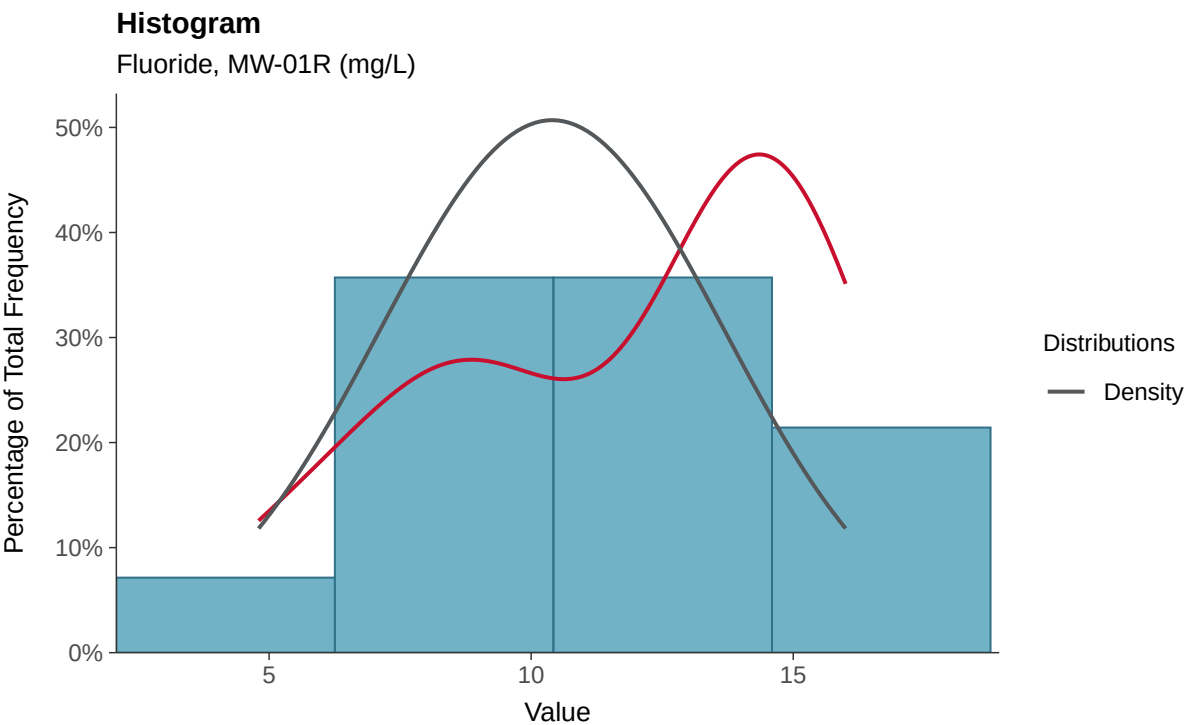
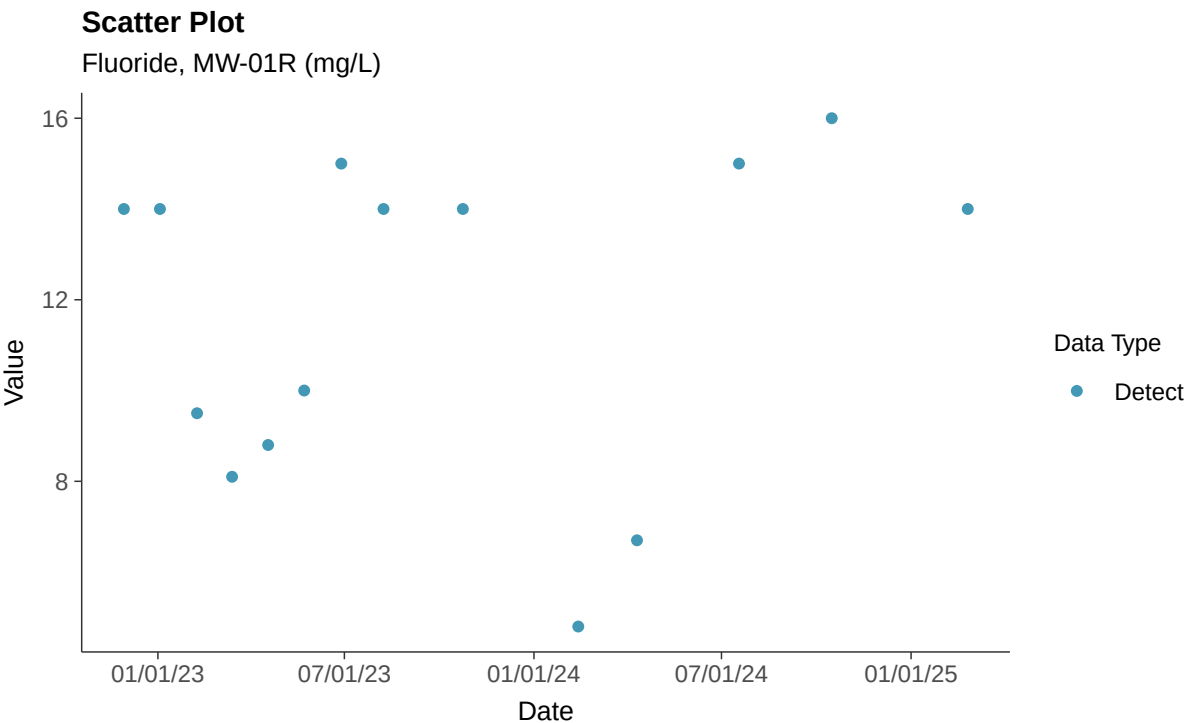


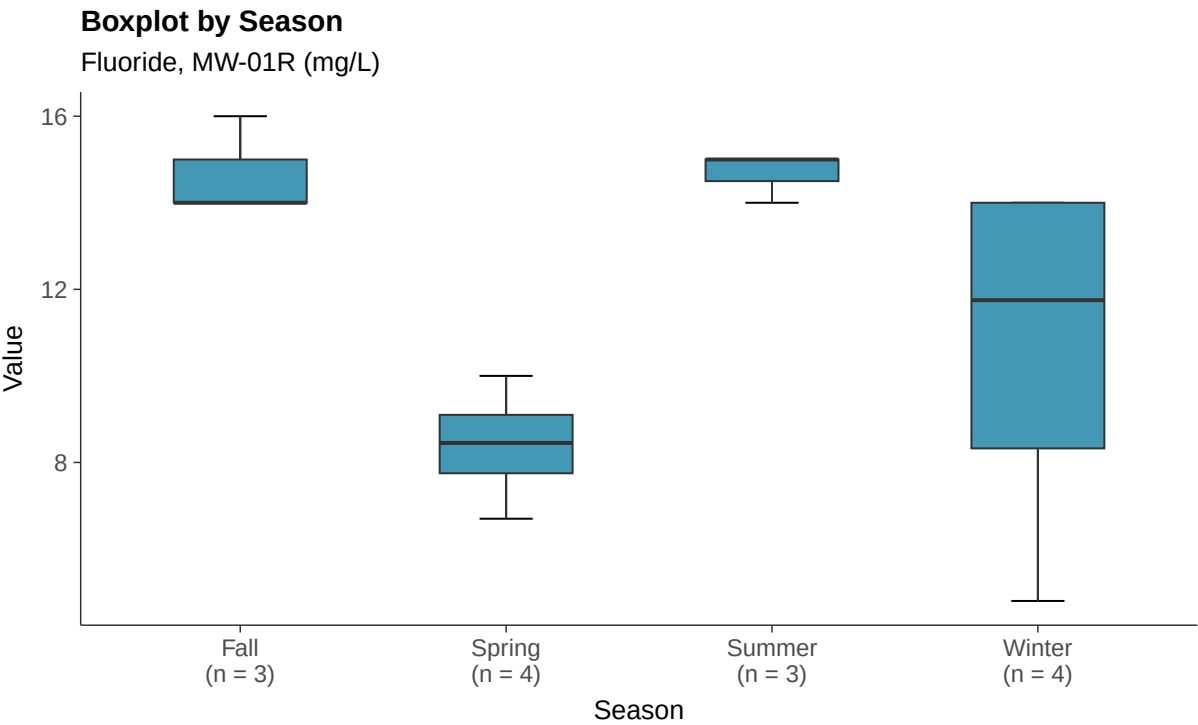
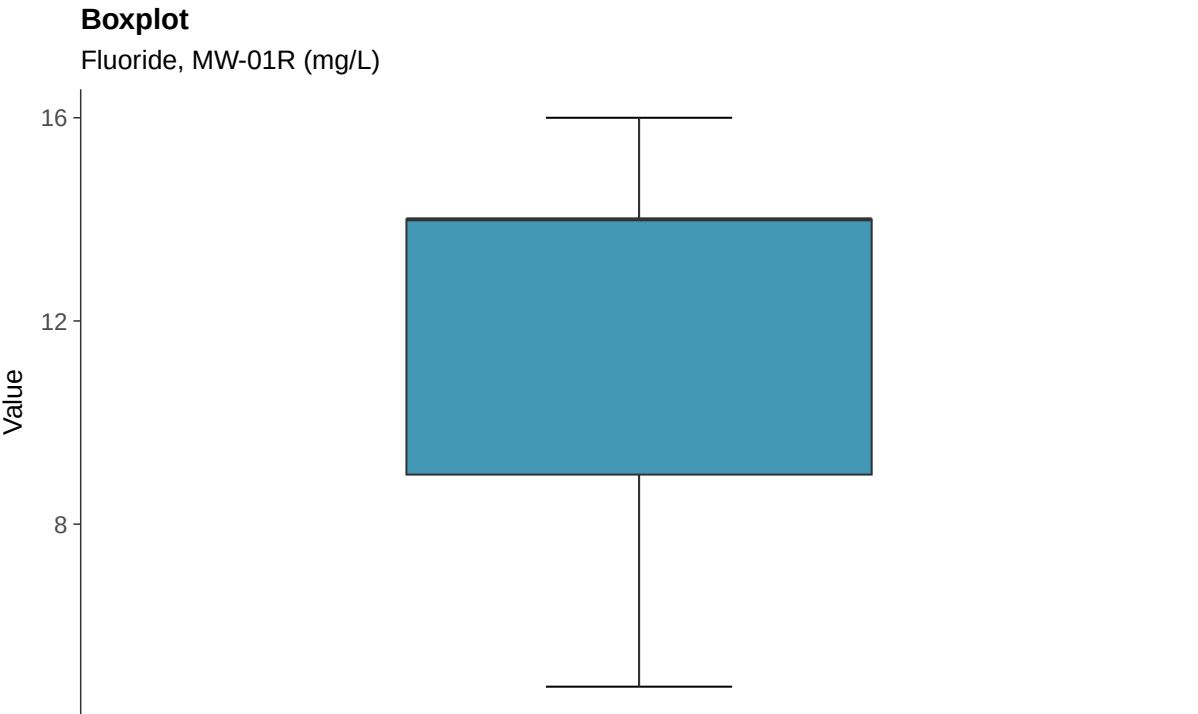


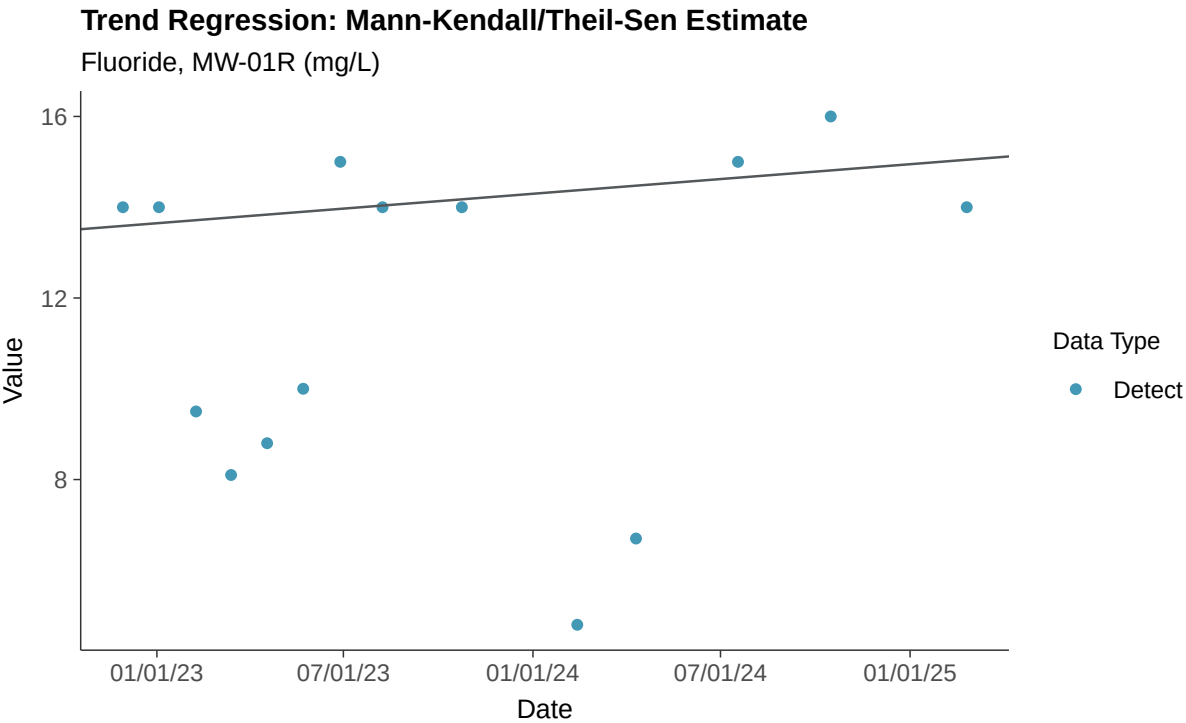
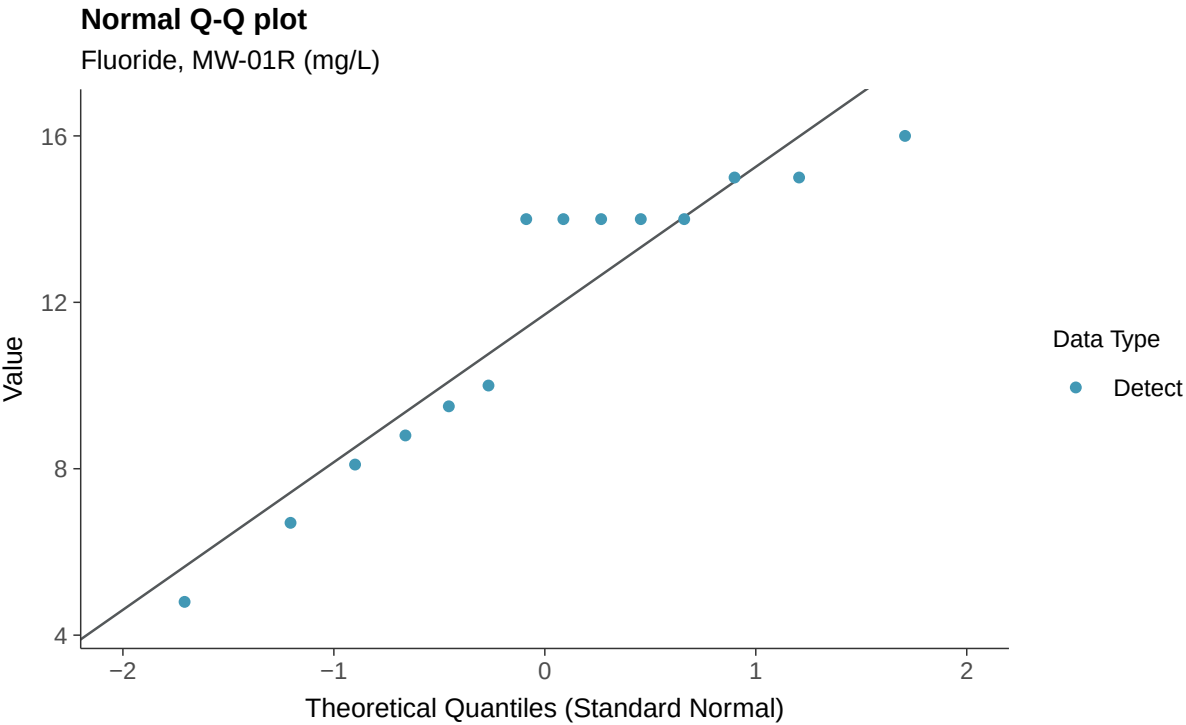


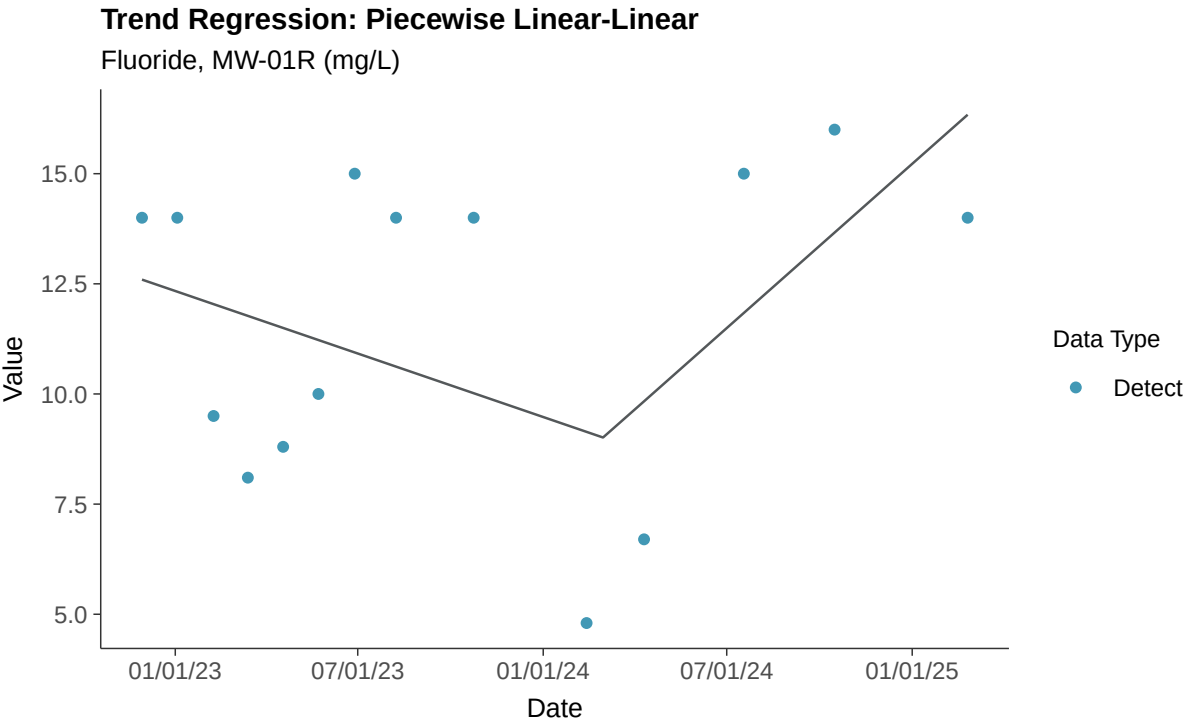
Appendix III: Fluoride, MW-01R

ID: 11_2_3_112





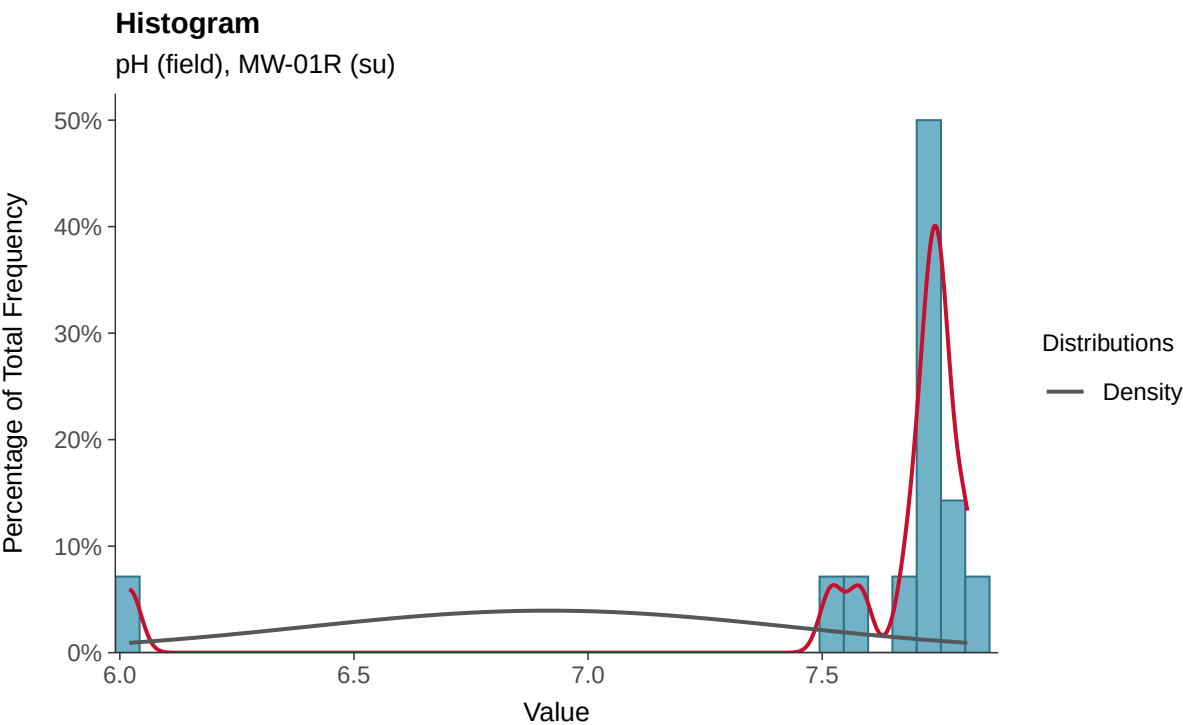
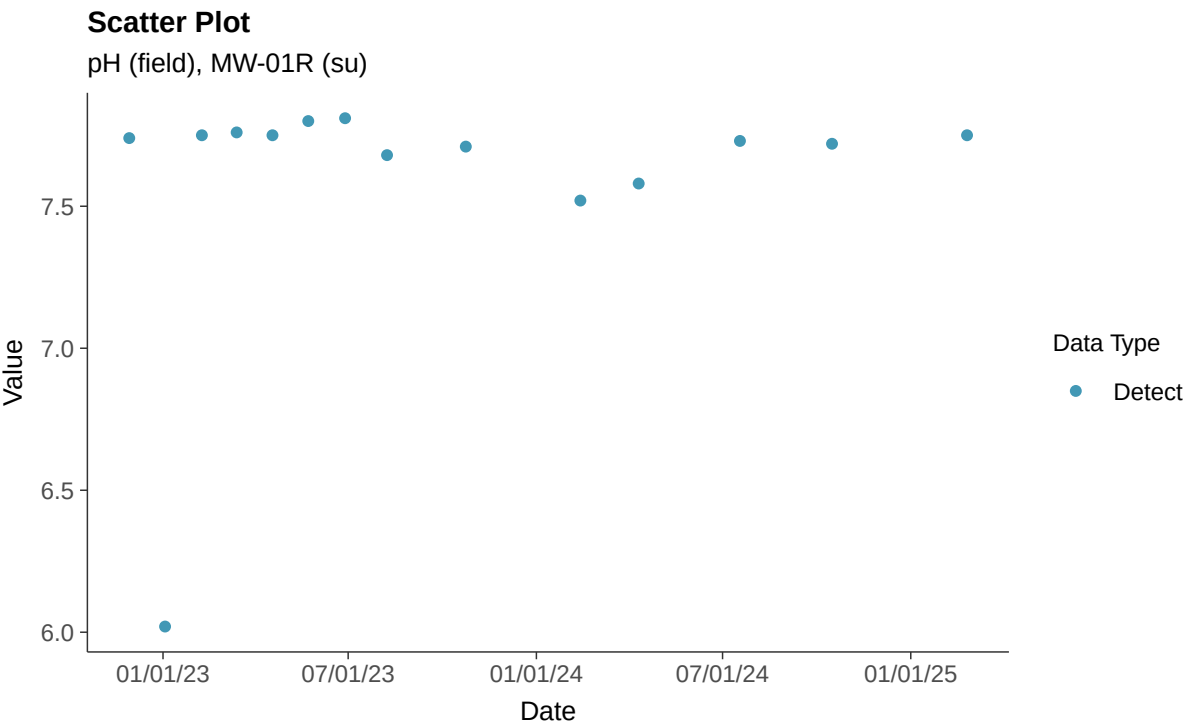


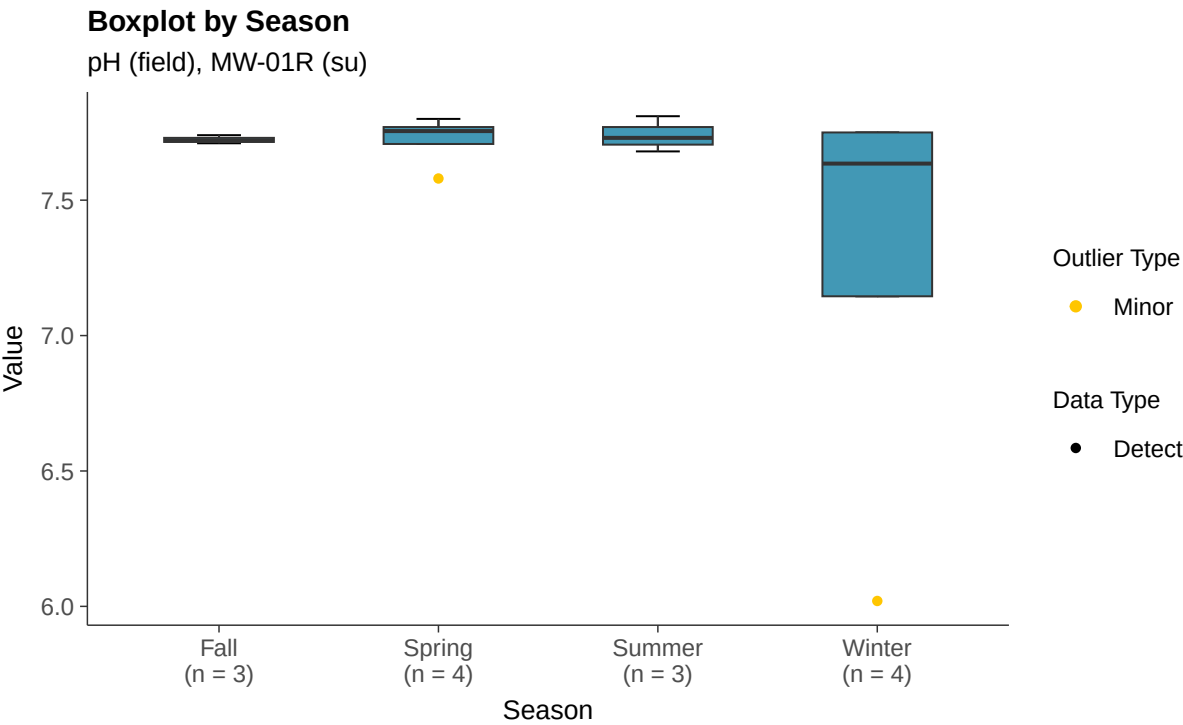
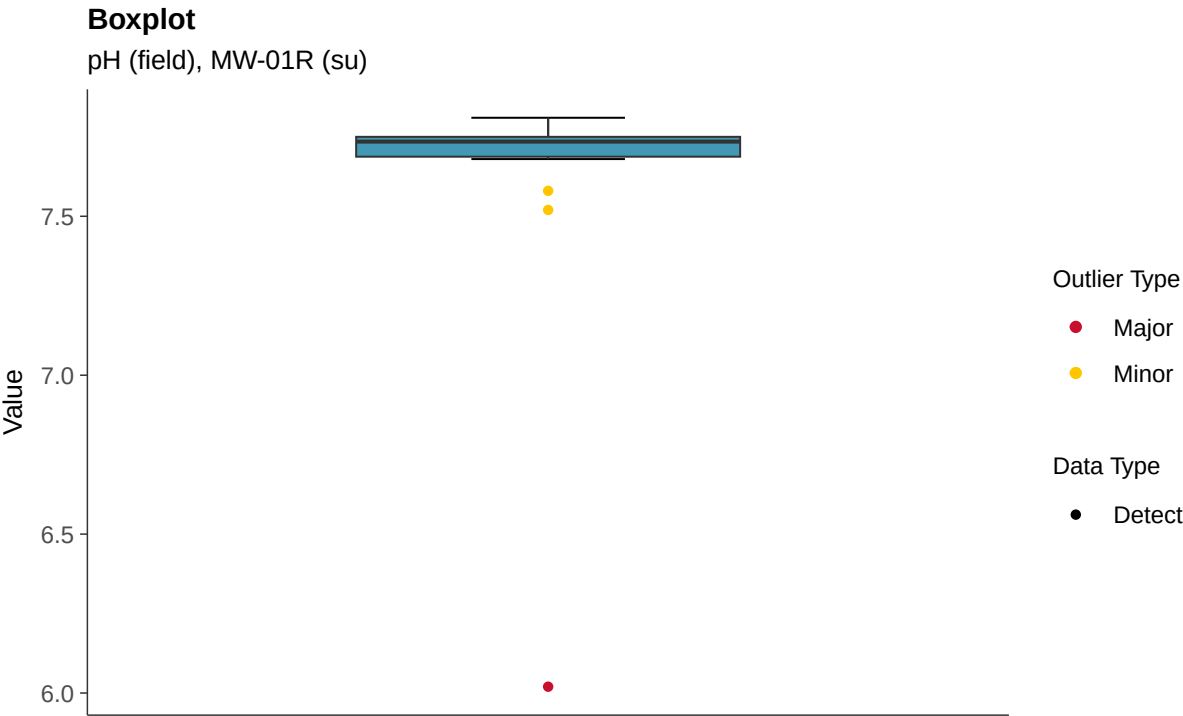


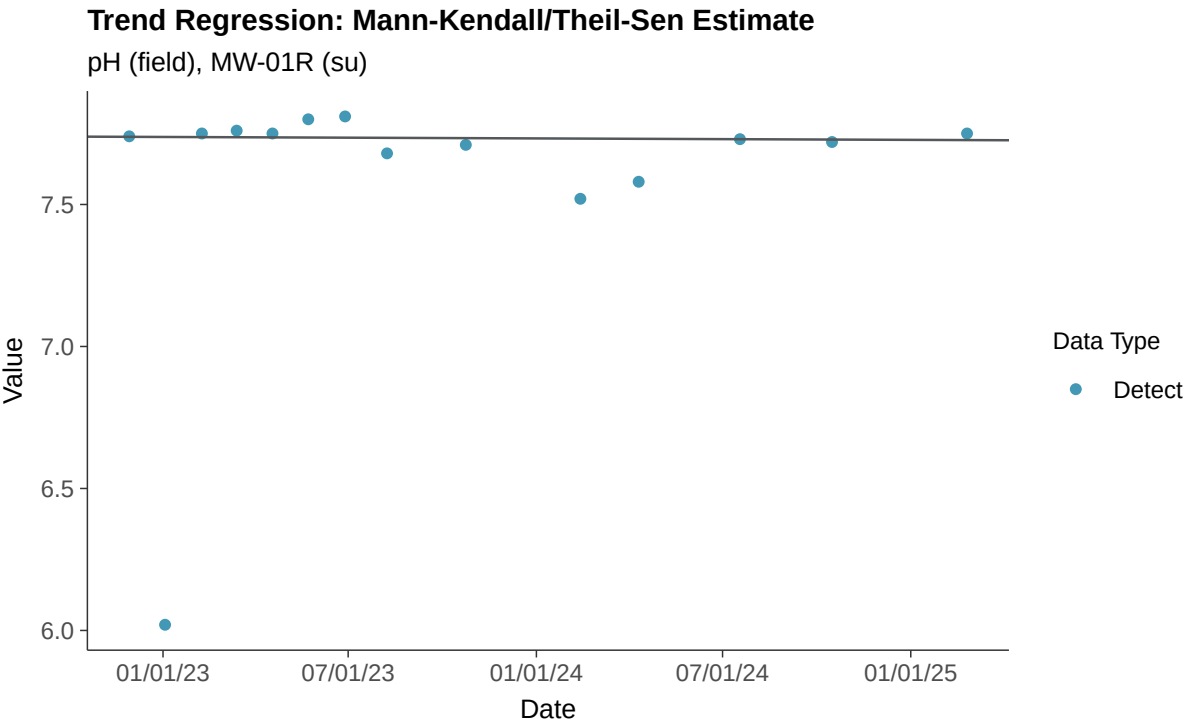
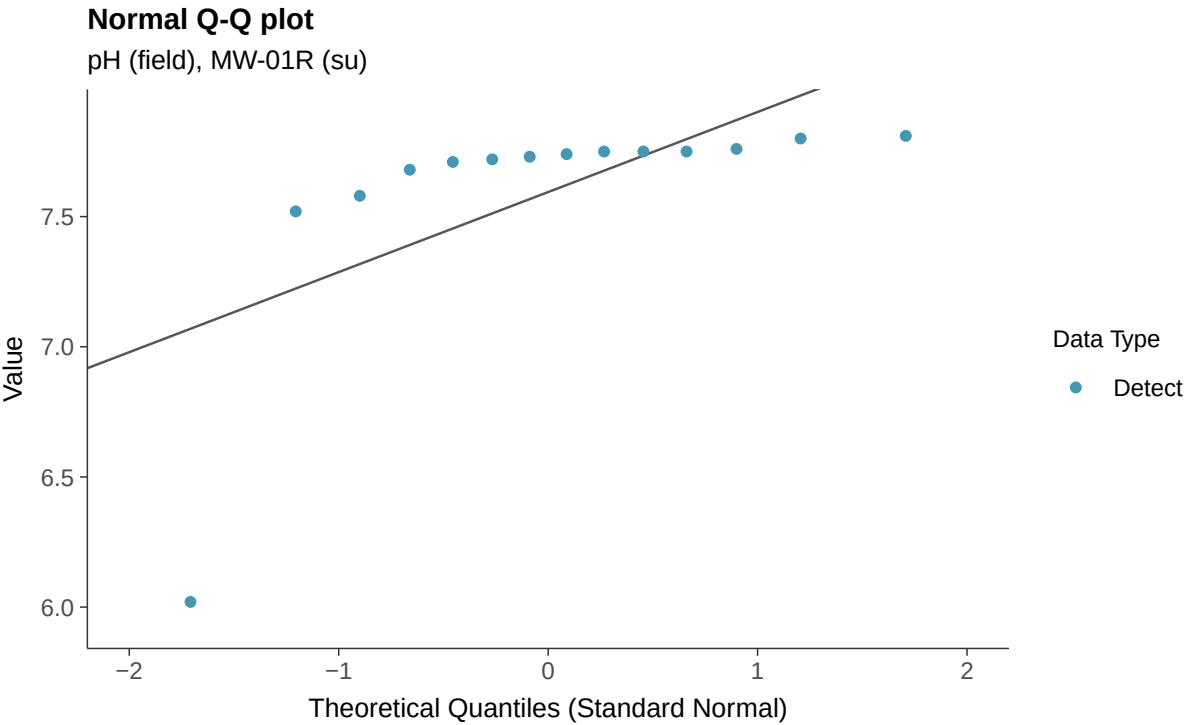


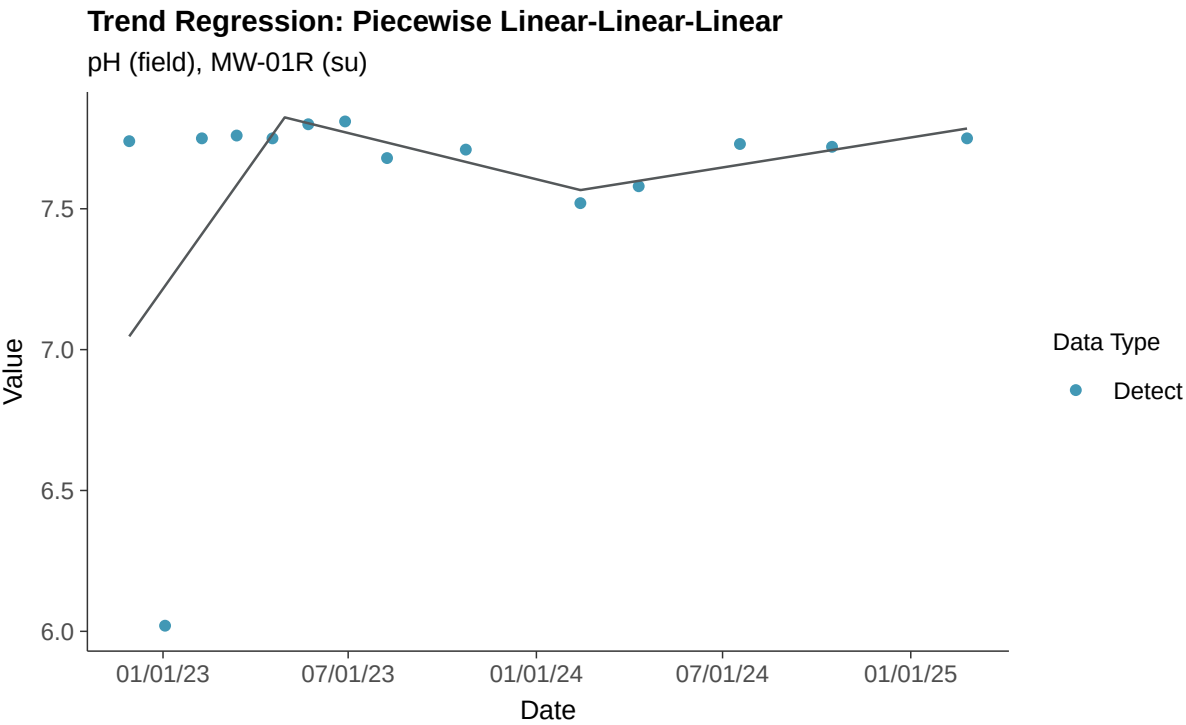
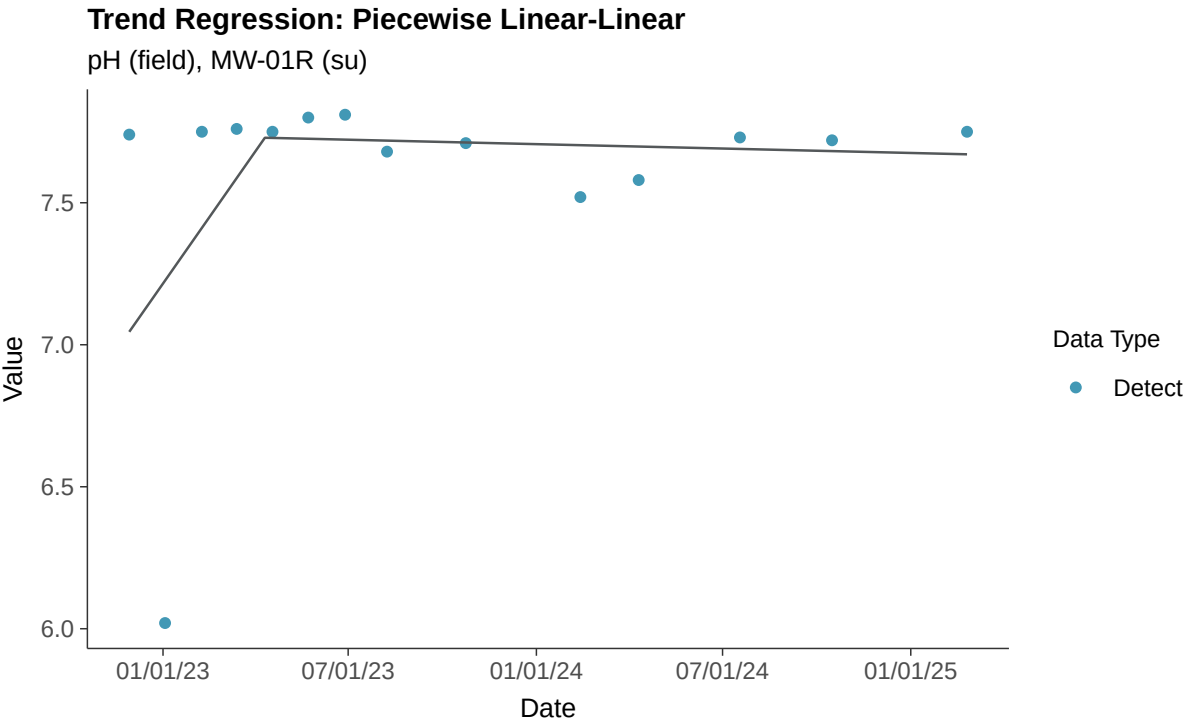
Appendix III: pH (field), MW-01R

ID: 11_2_3_120





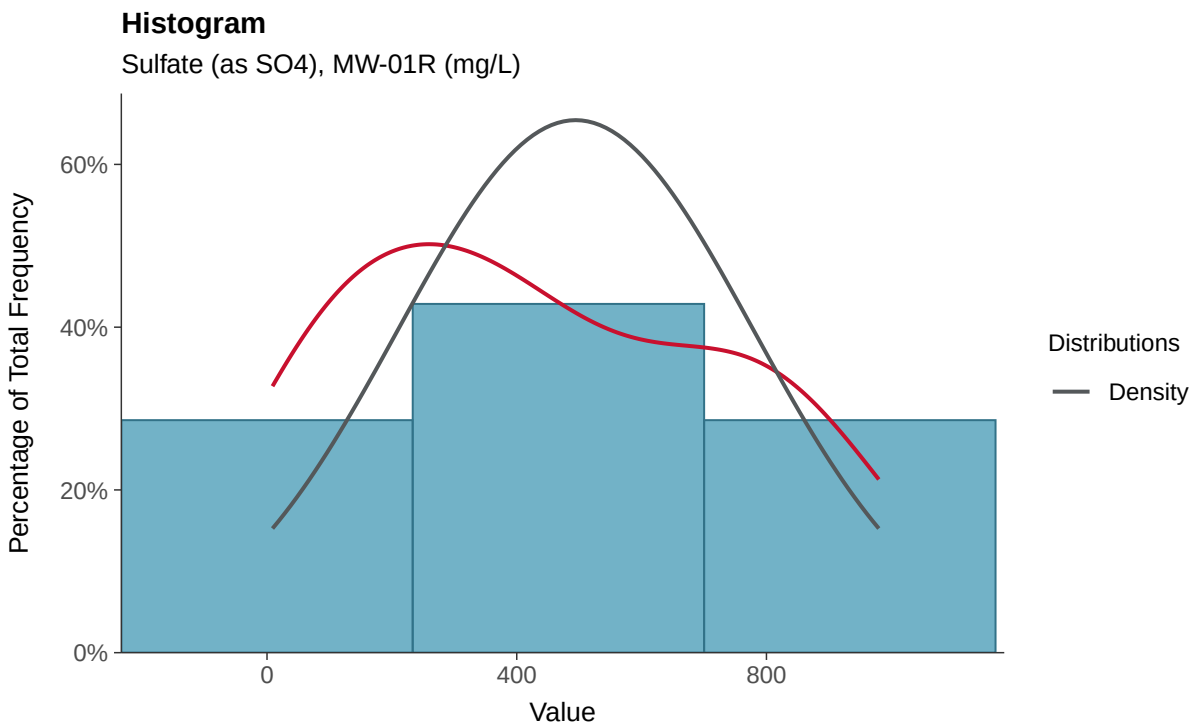
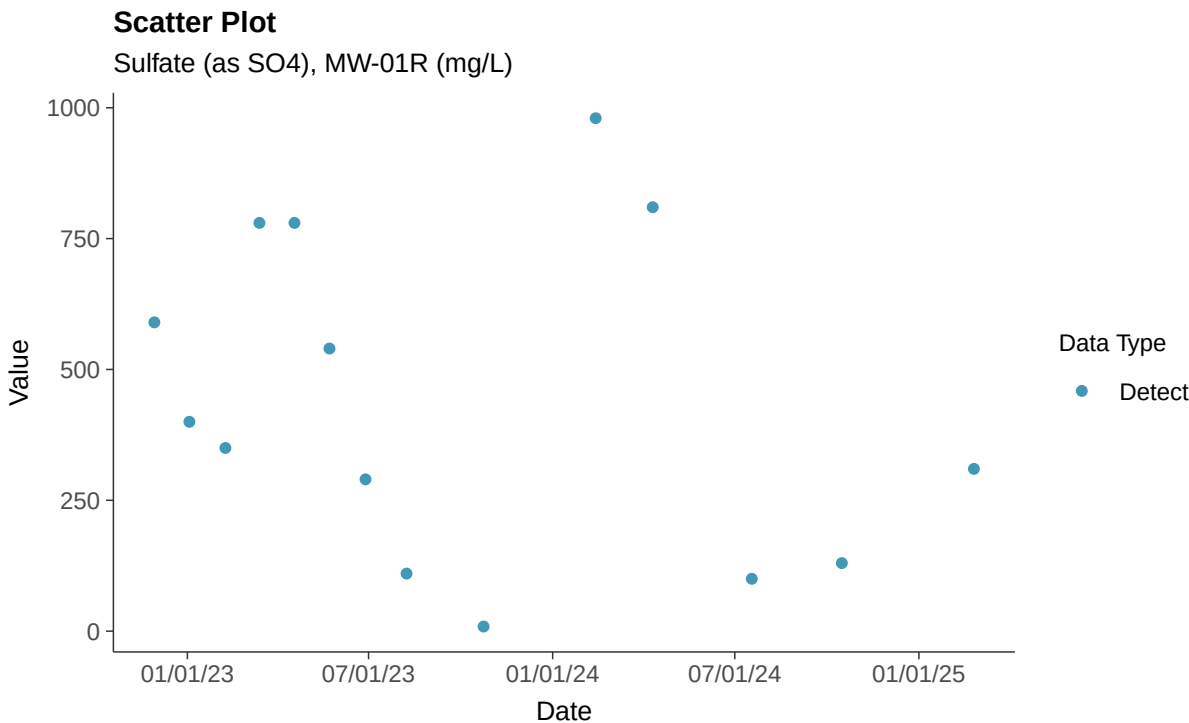


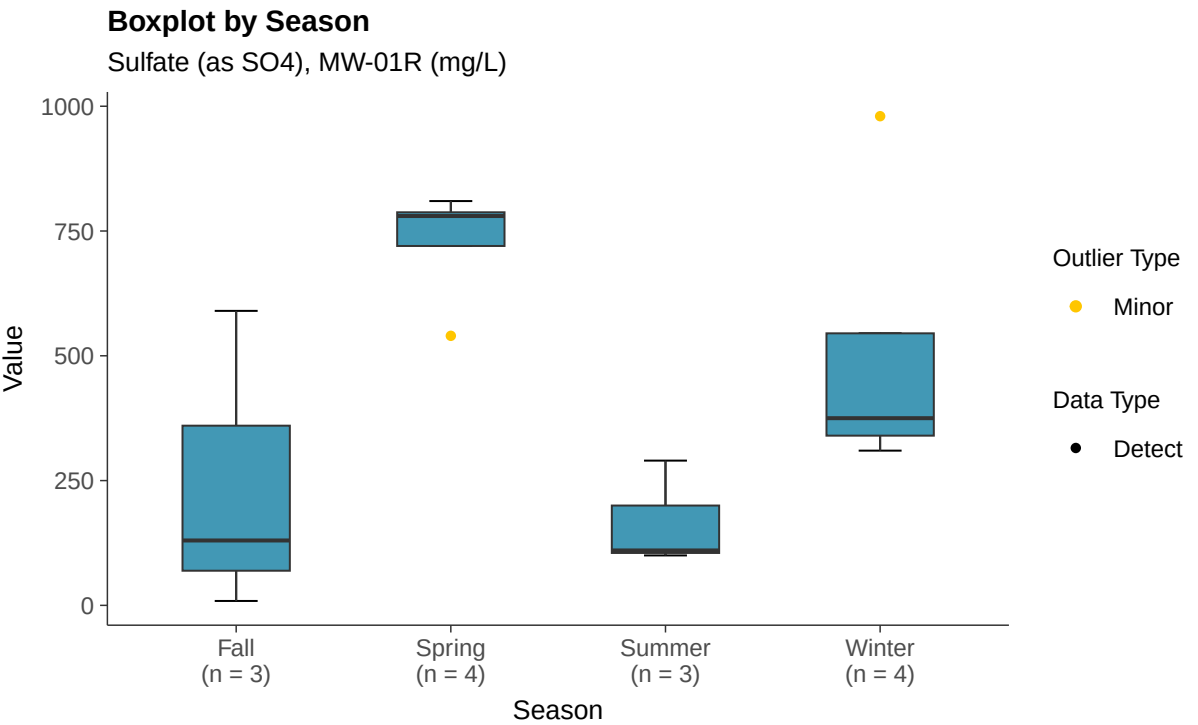
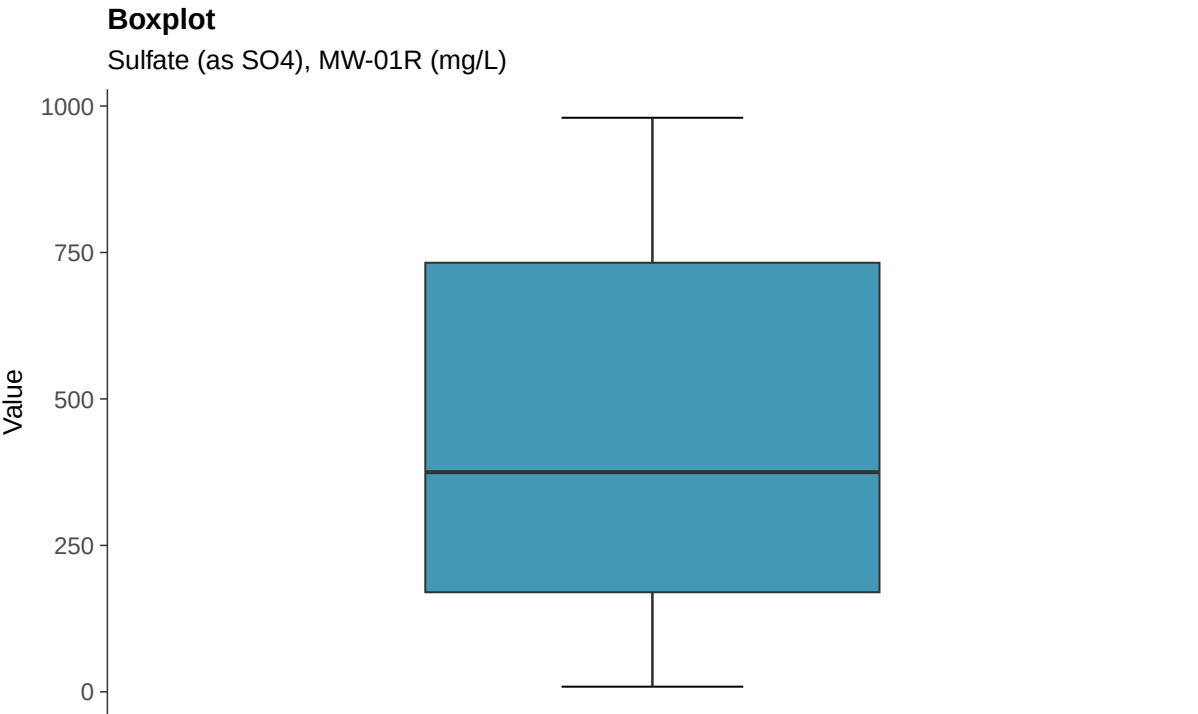


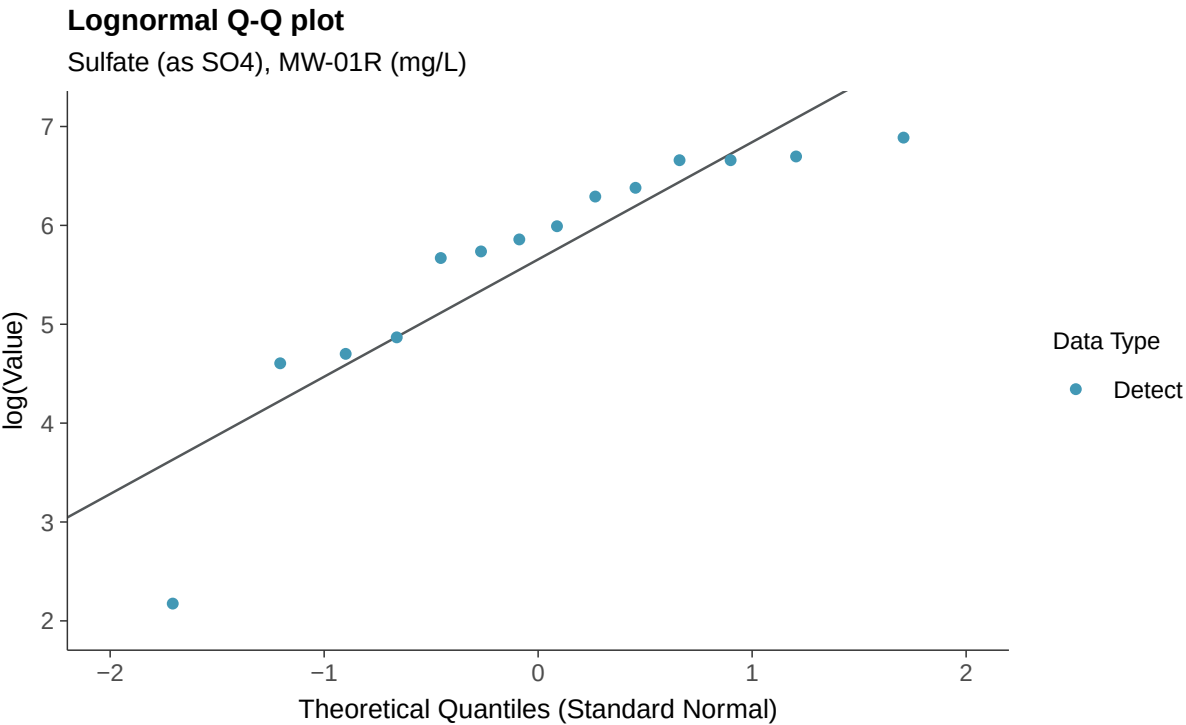
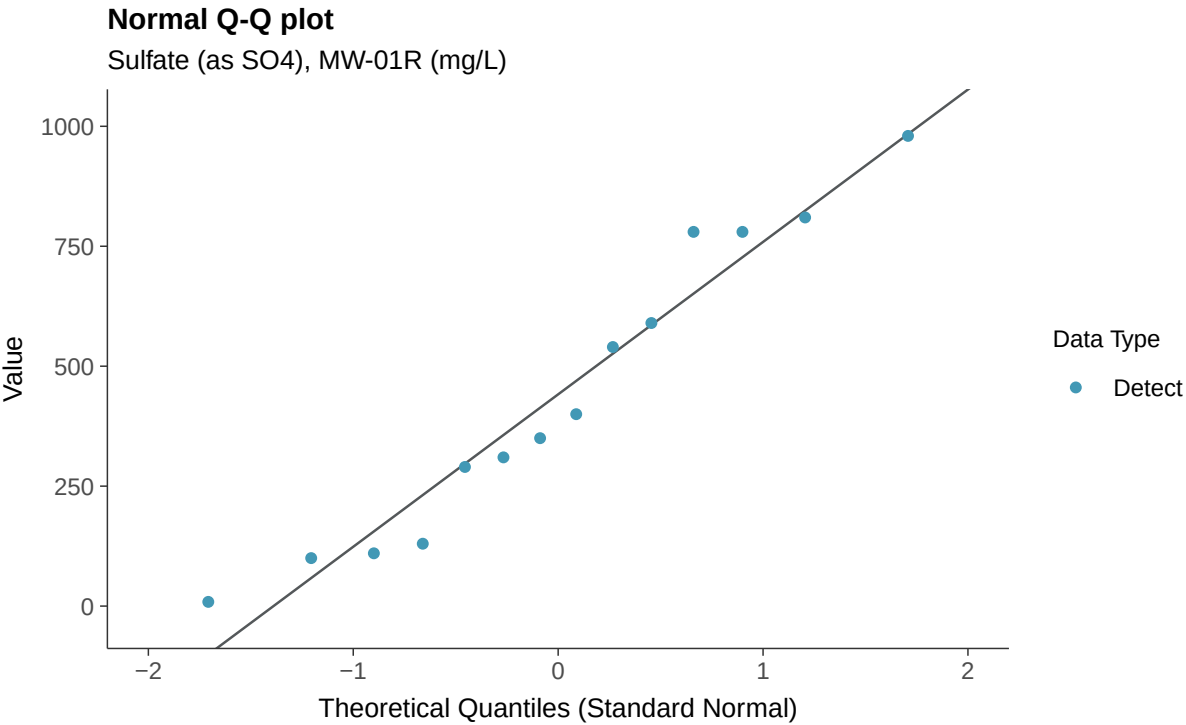


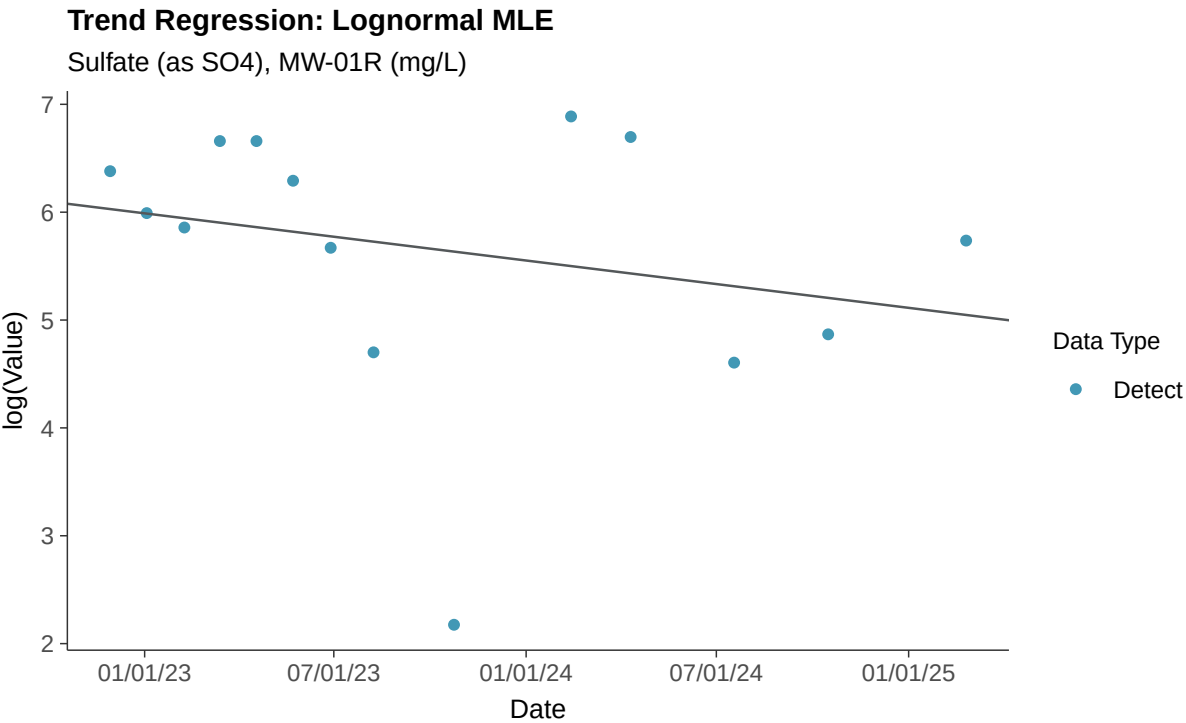
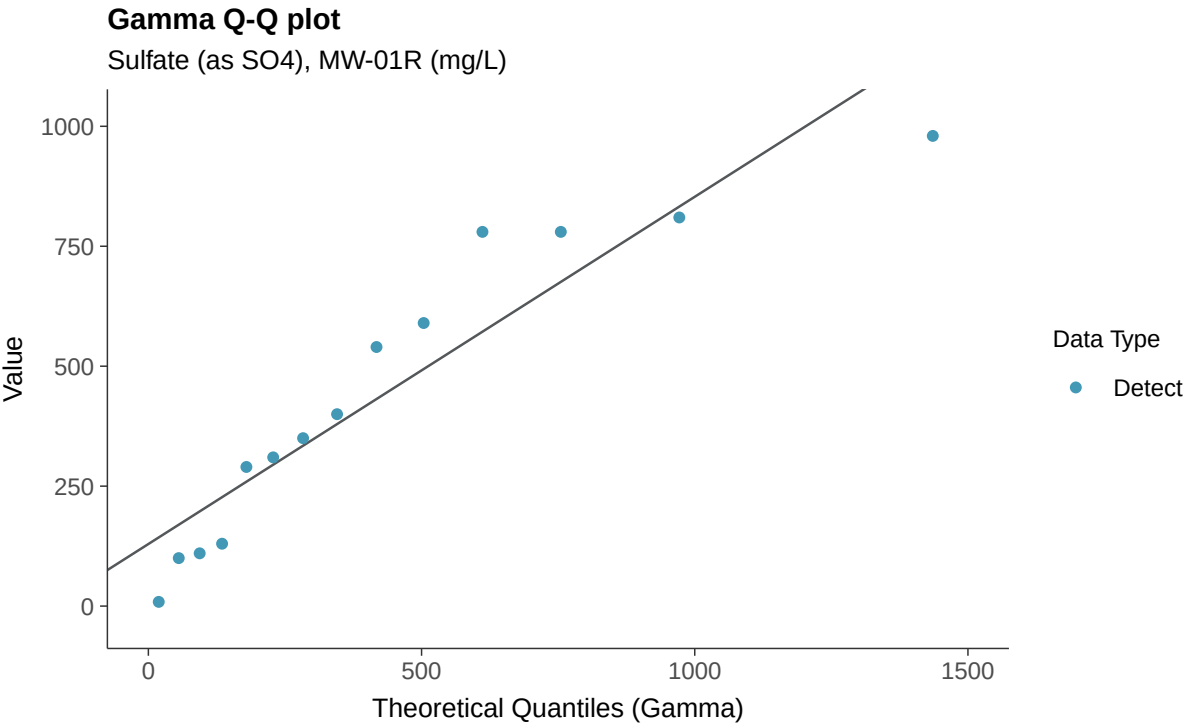
Appendix III: Sulfate (as SO₄), MW-01R

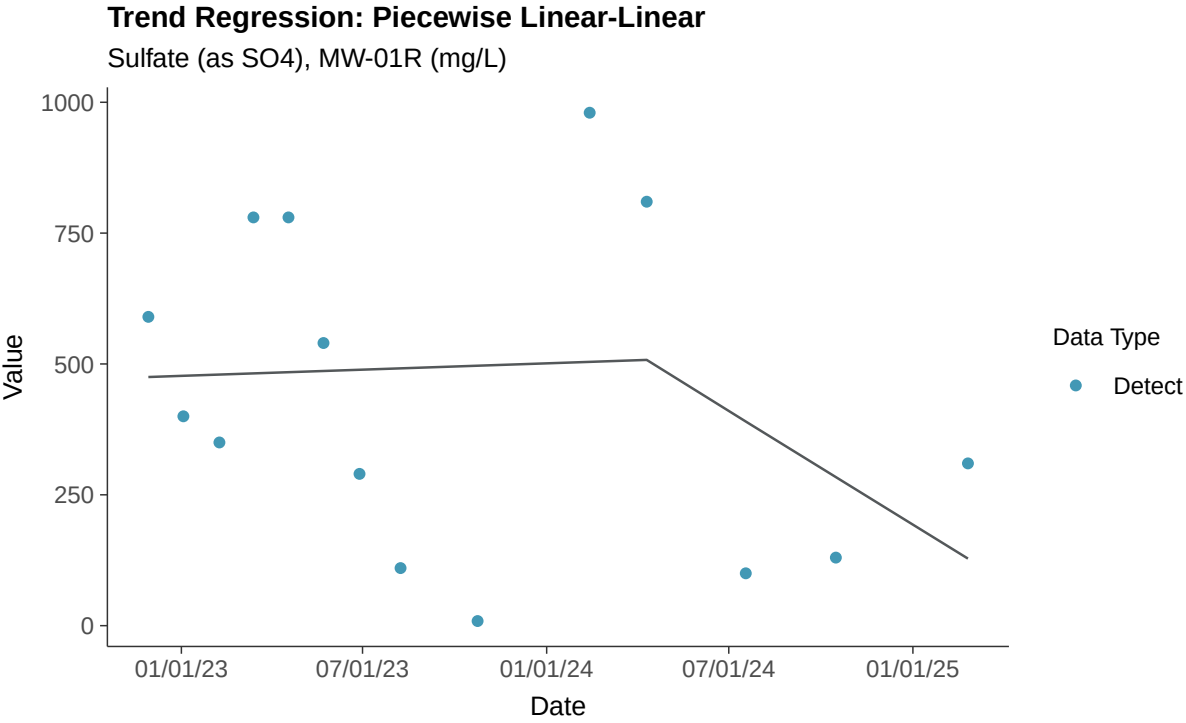
ID: 11_2_3_124







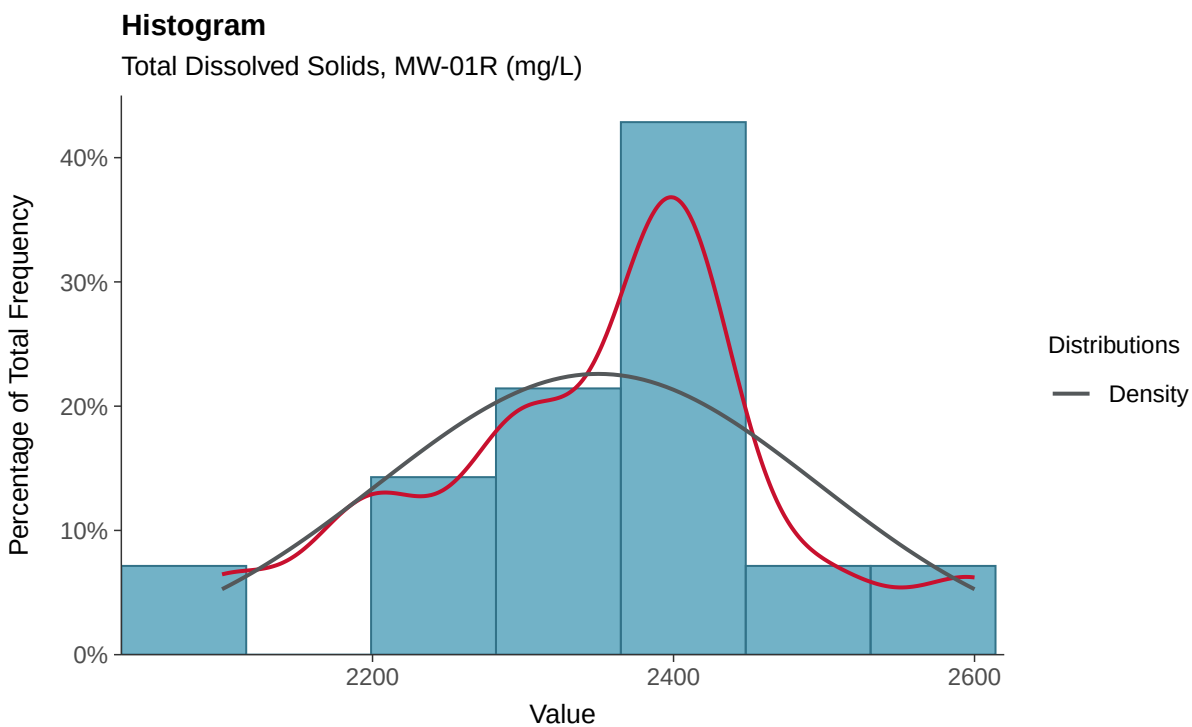
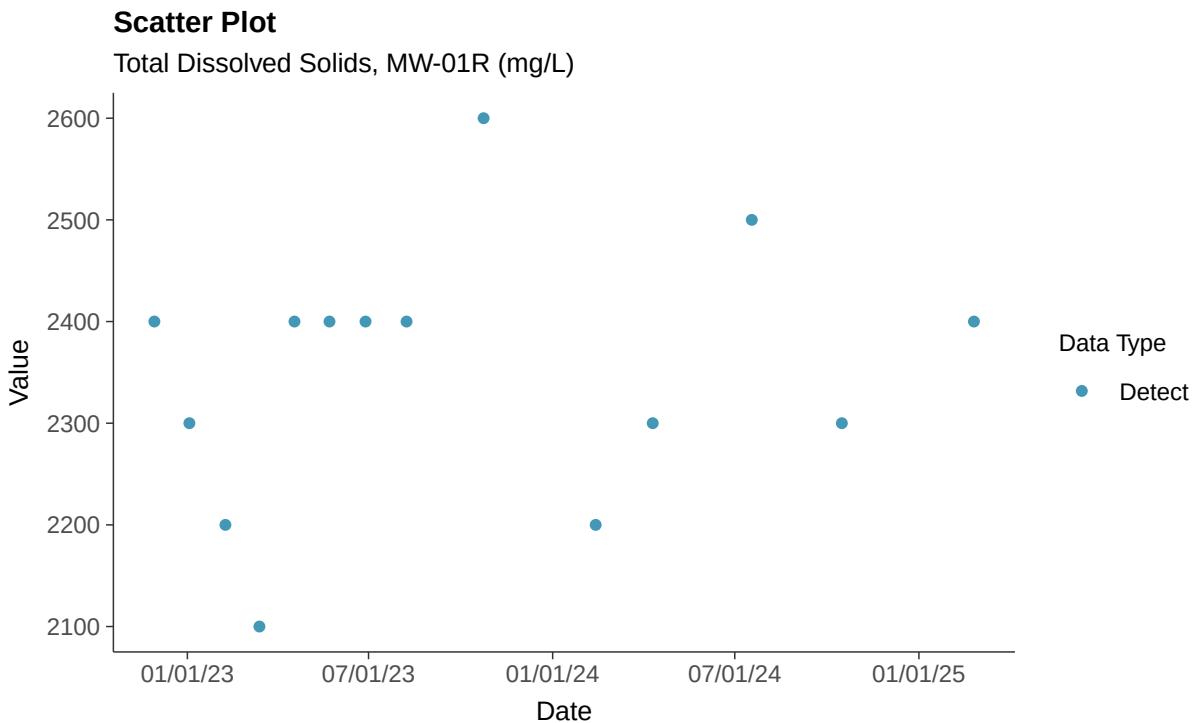


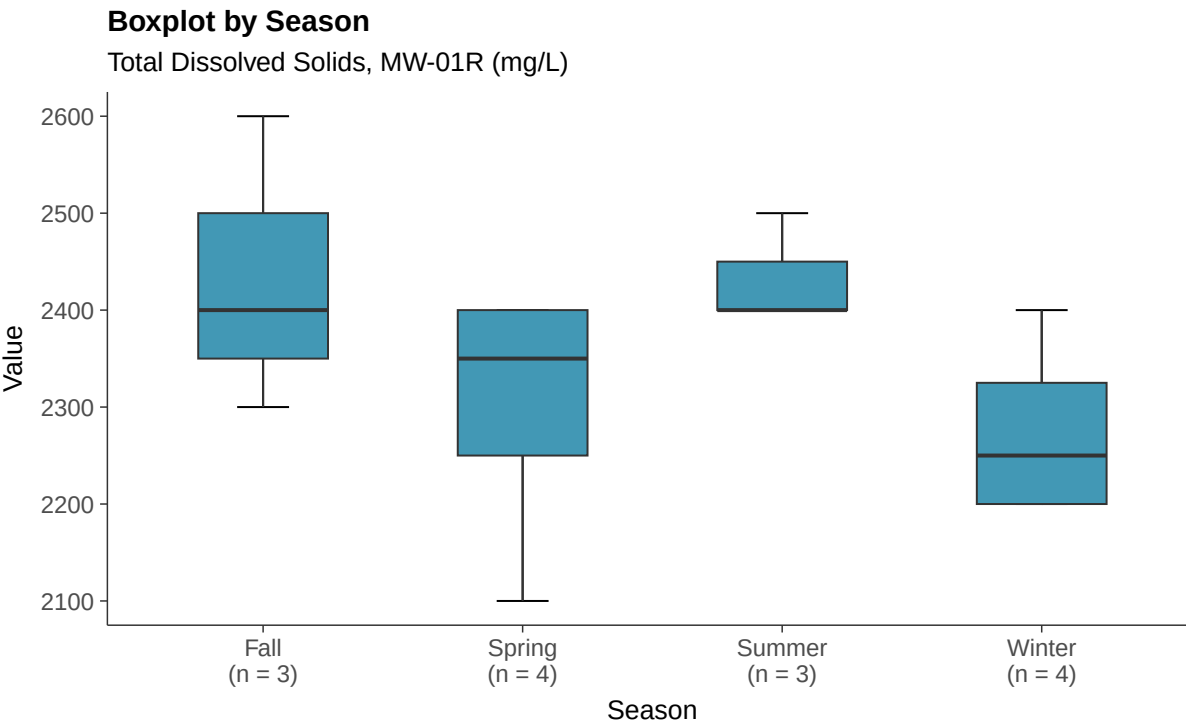
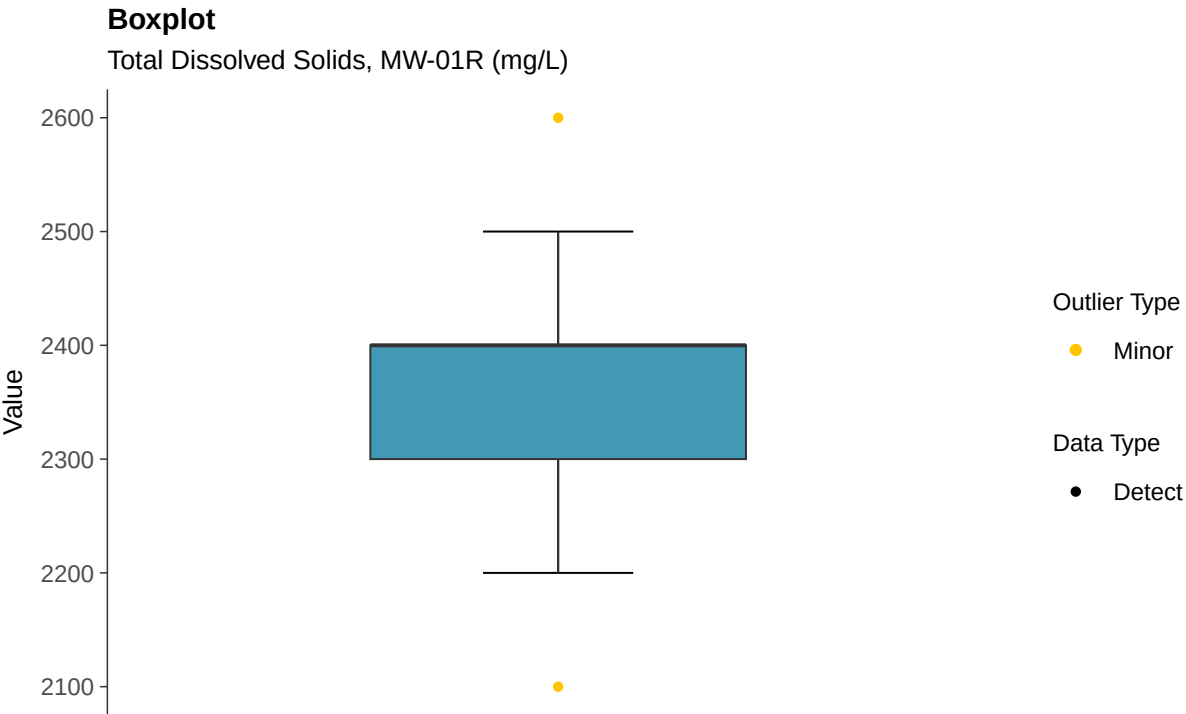


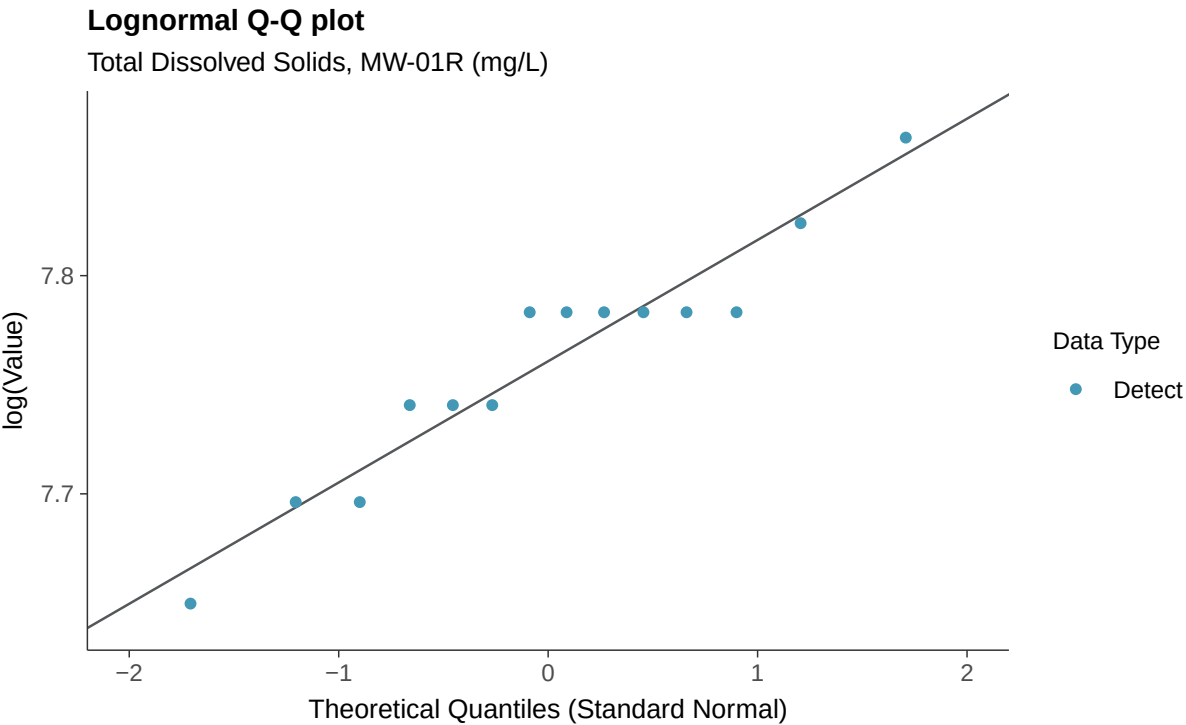
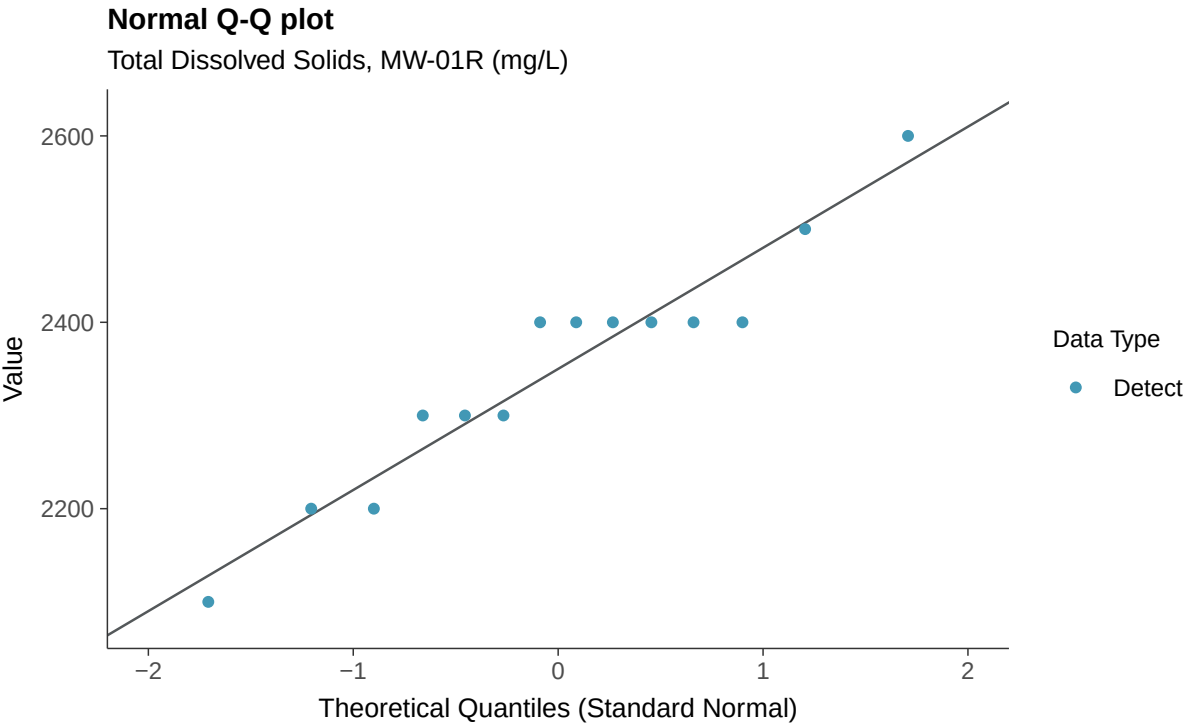


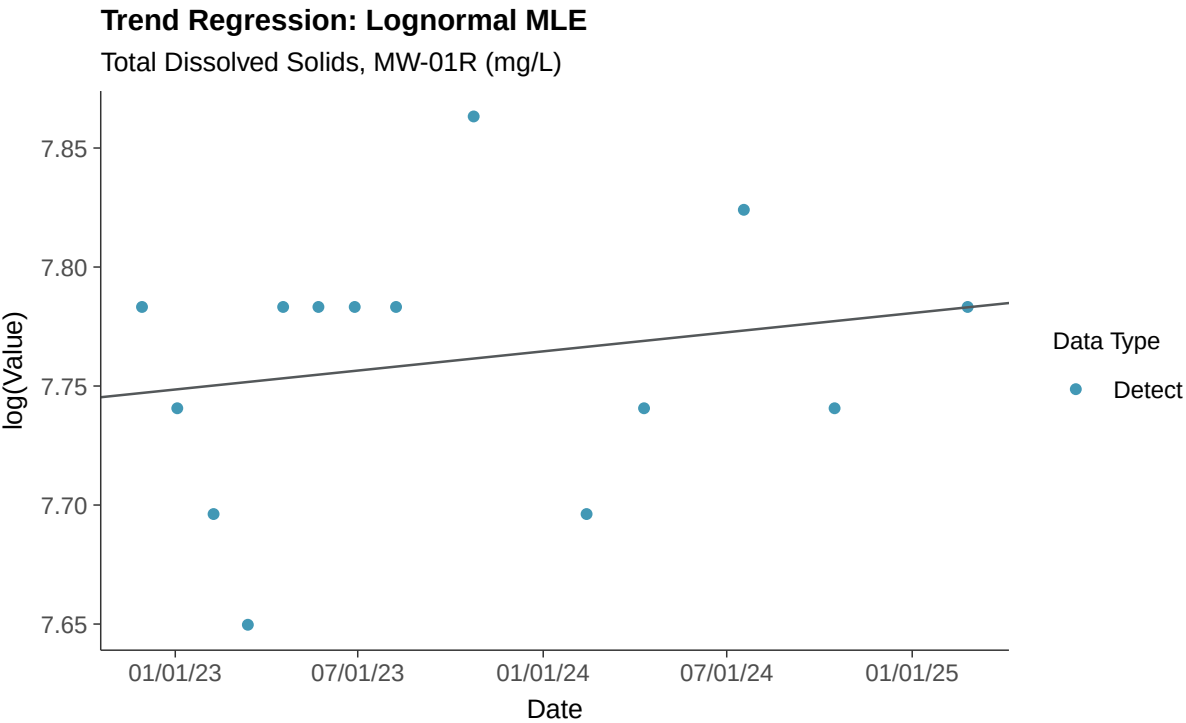
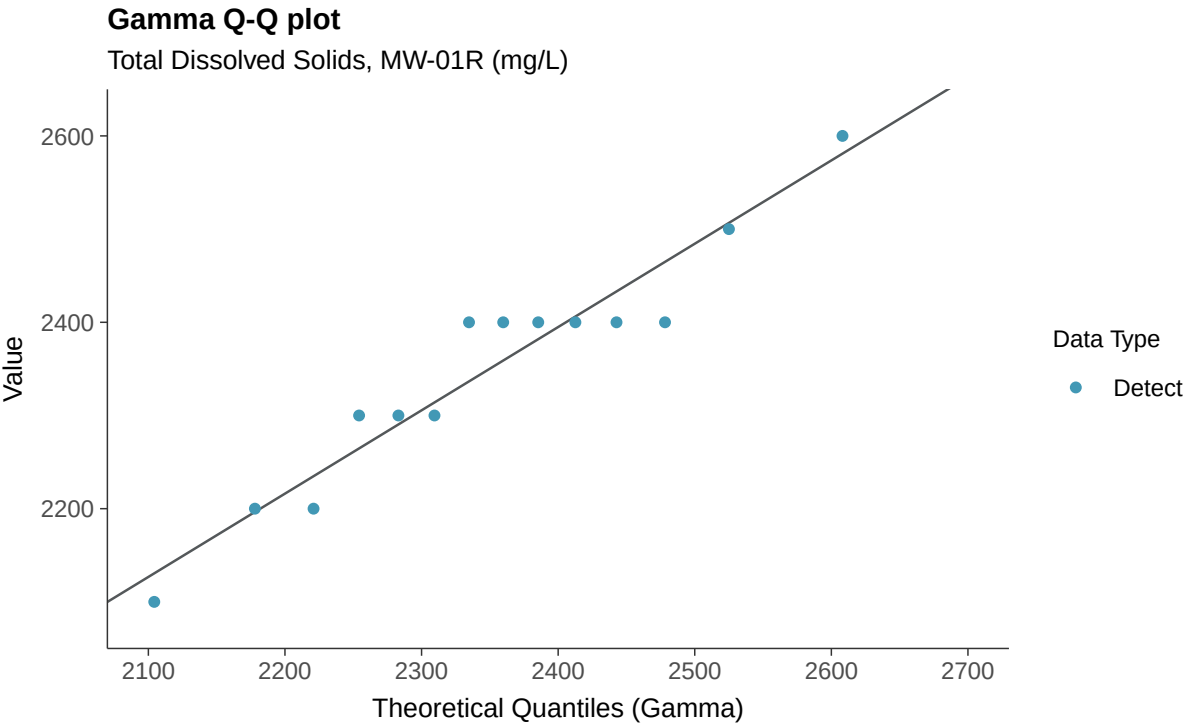
Appendix III: Total Dissolved Solids, MW-01R

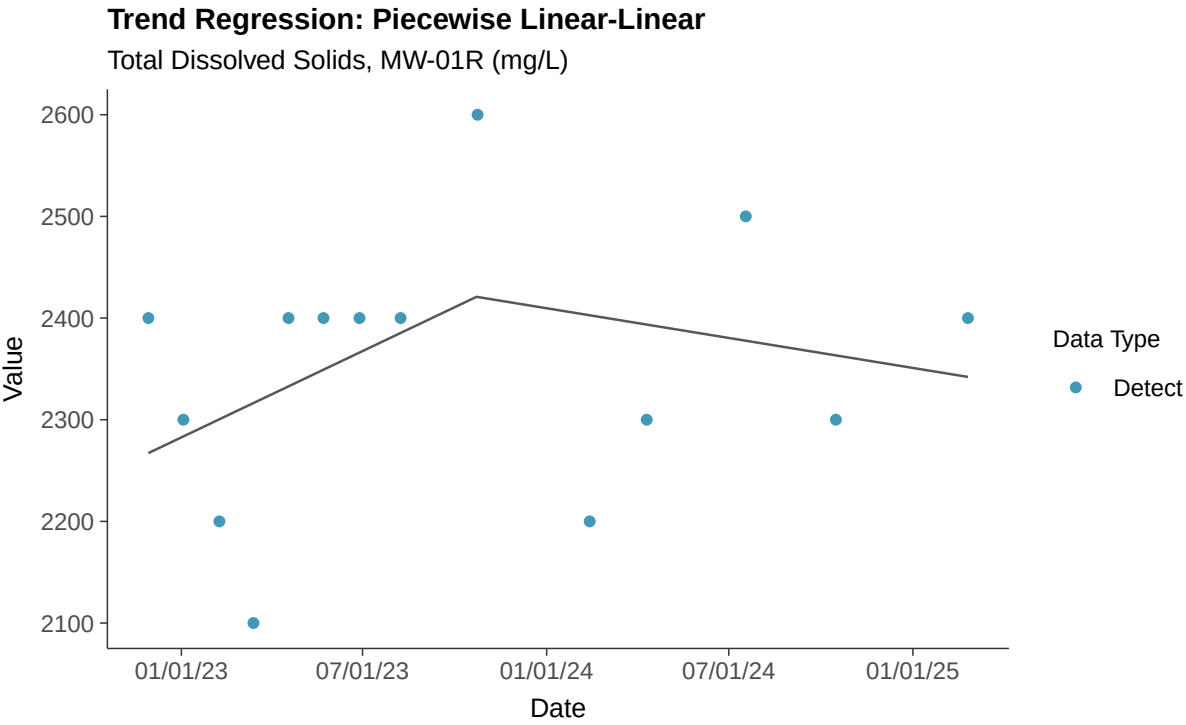
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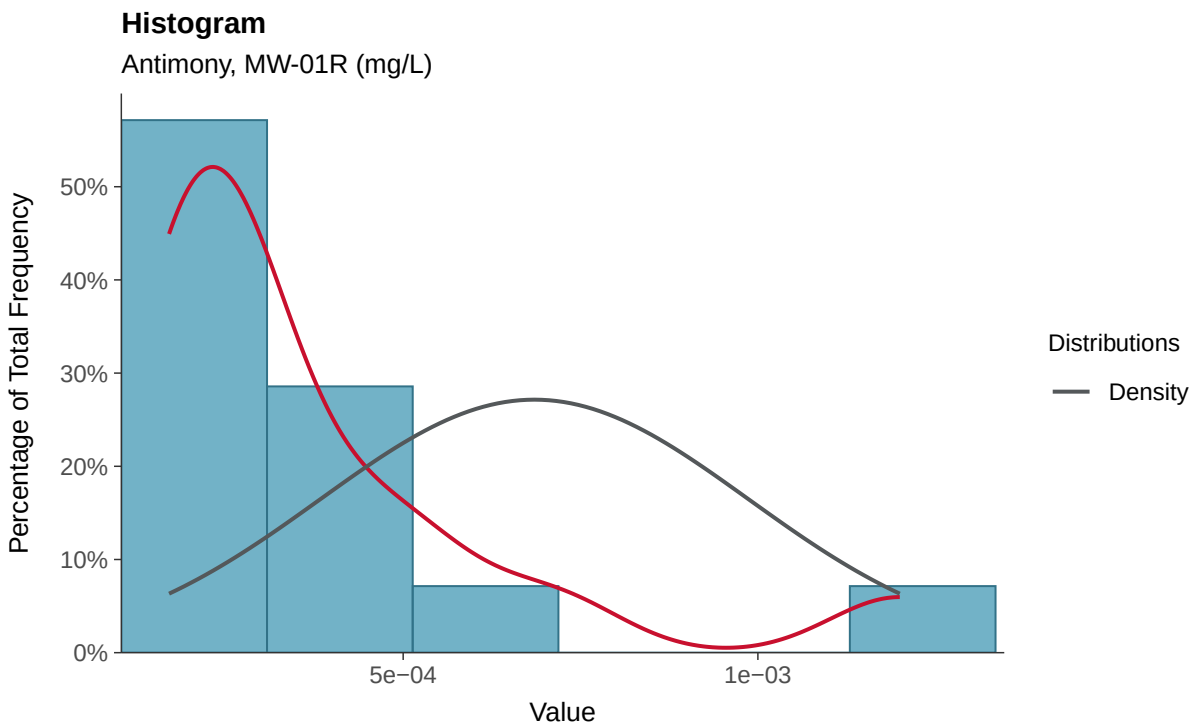
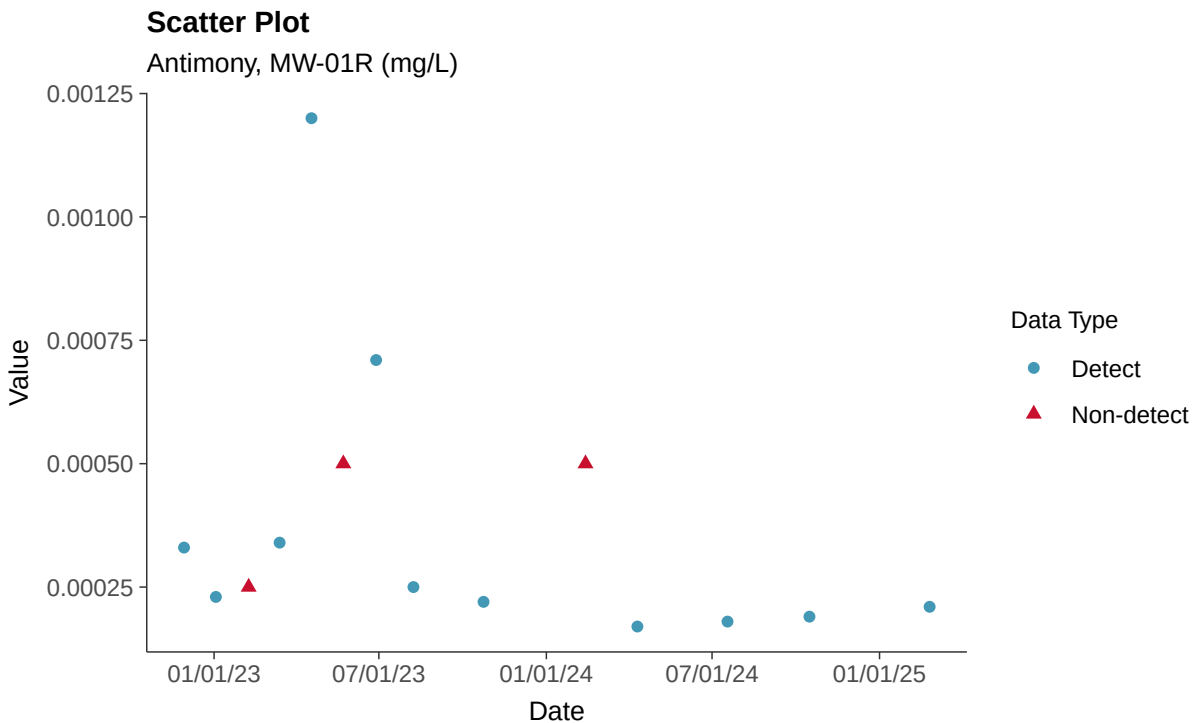


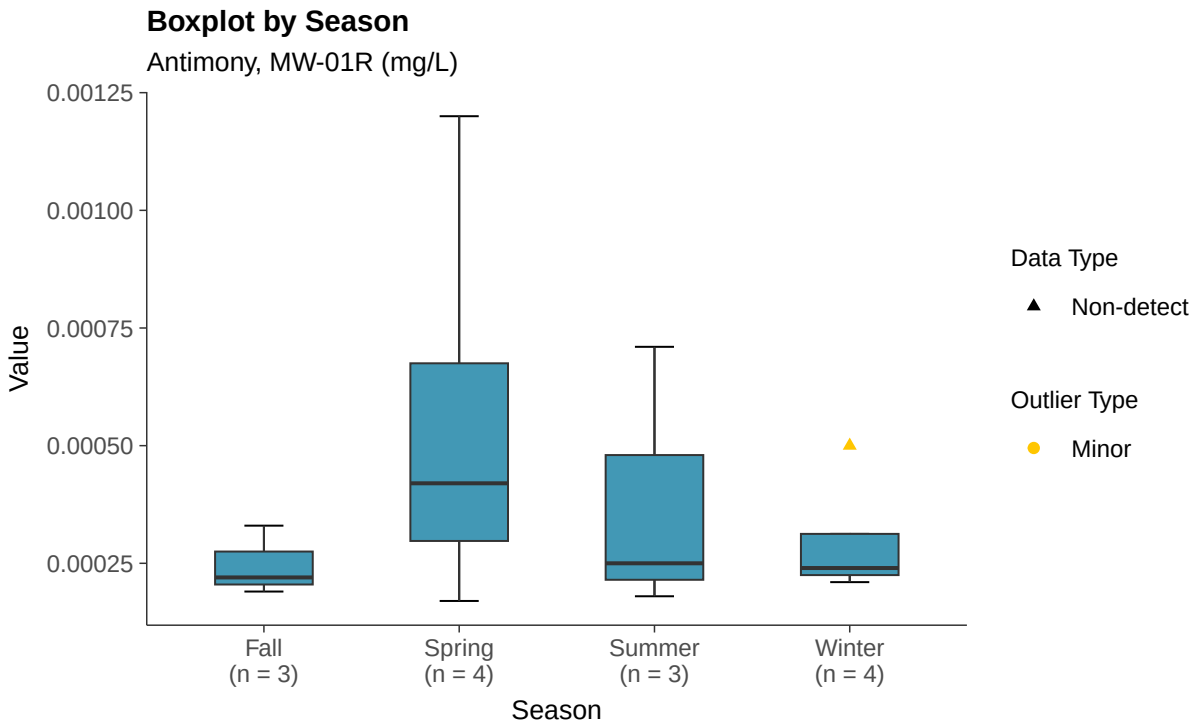
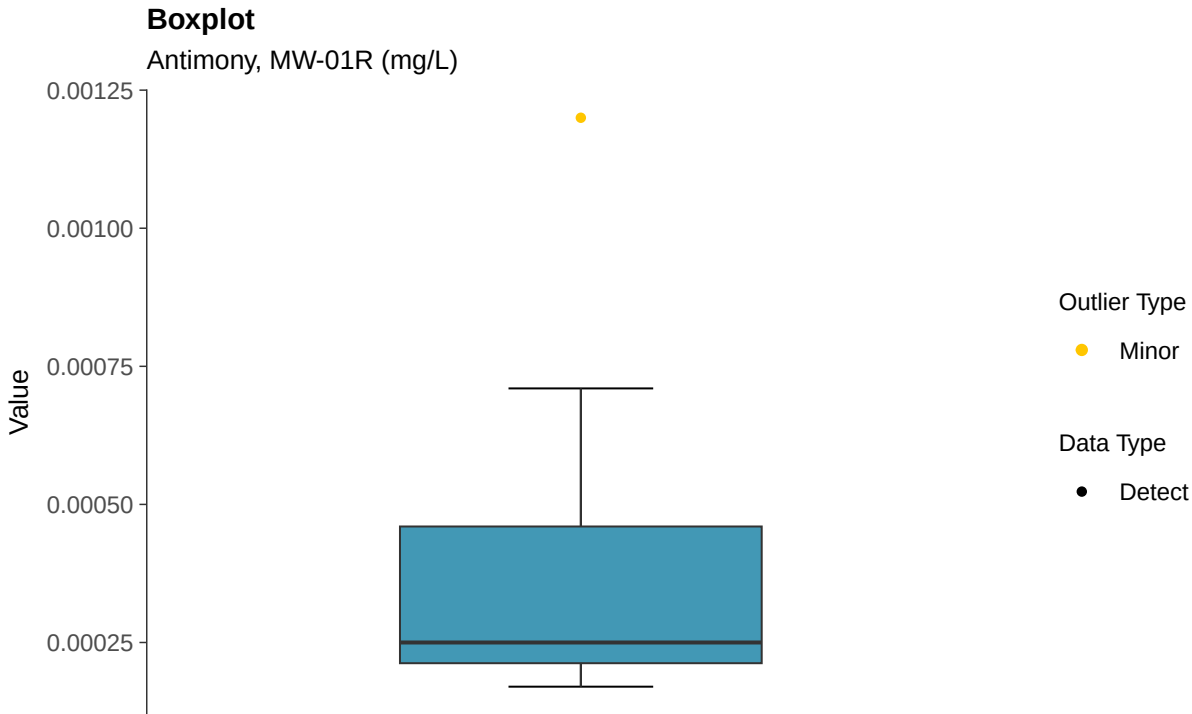




Appendix IV: Antimony, MW-01R

ID: 11_2_4_101

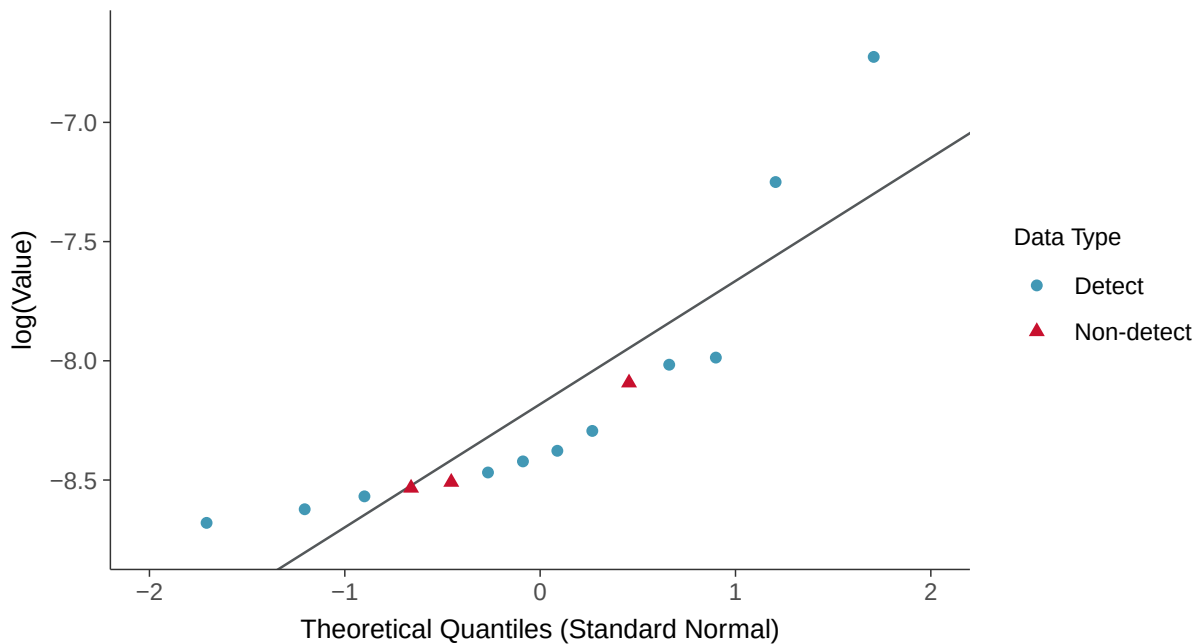






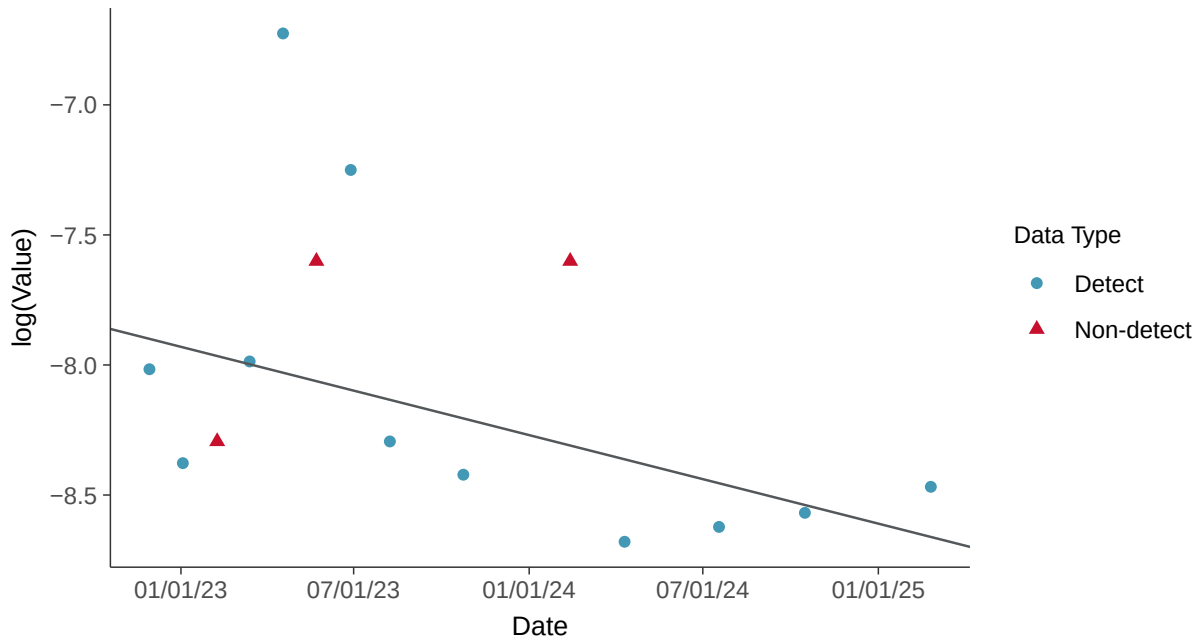
Lognormal Q-Q plot using ROS Imputed Estimates

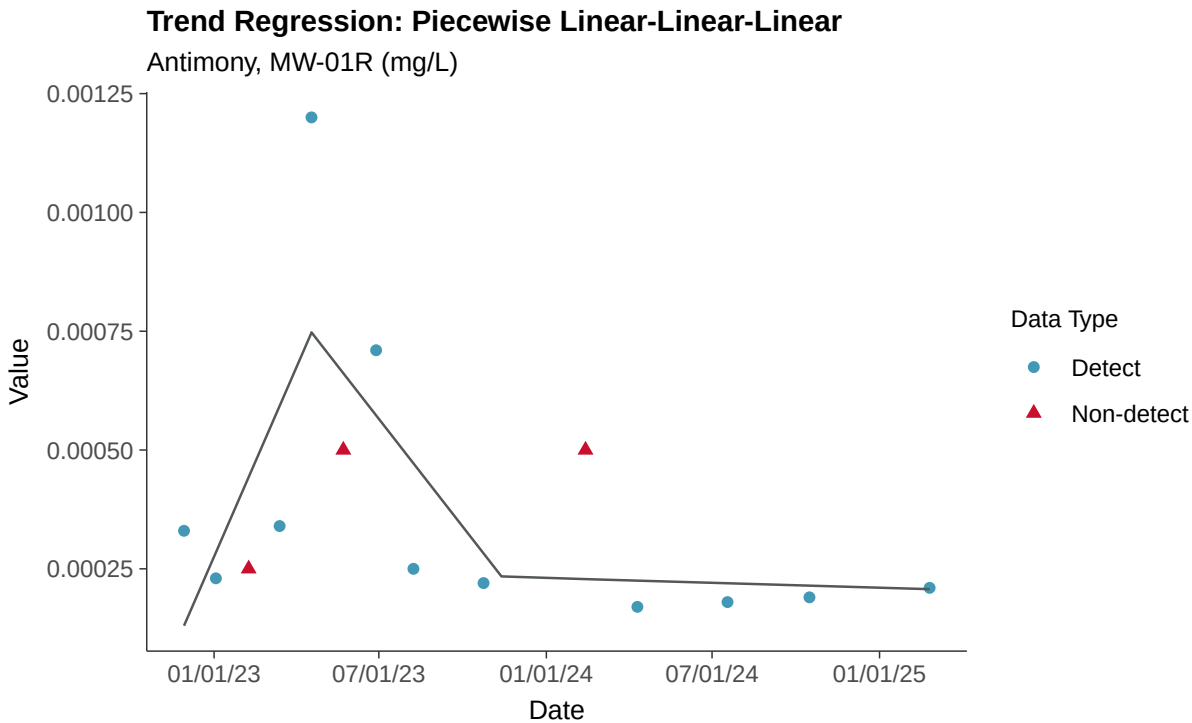
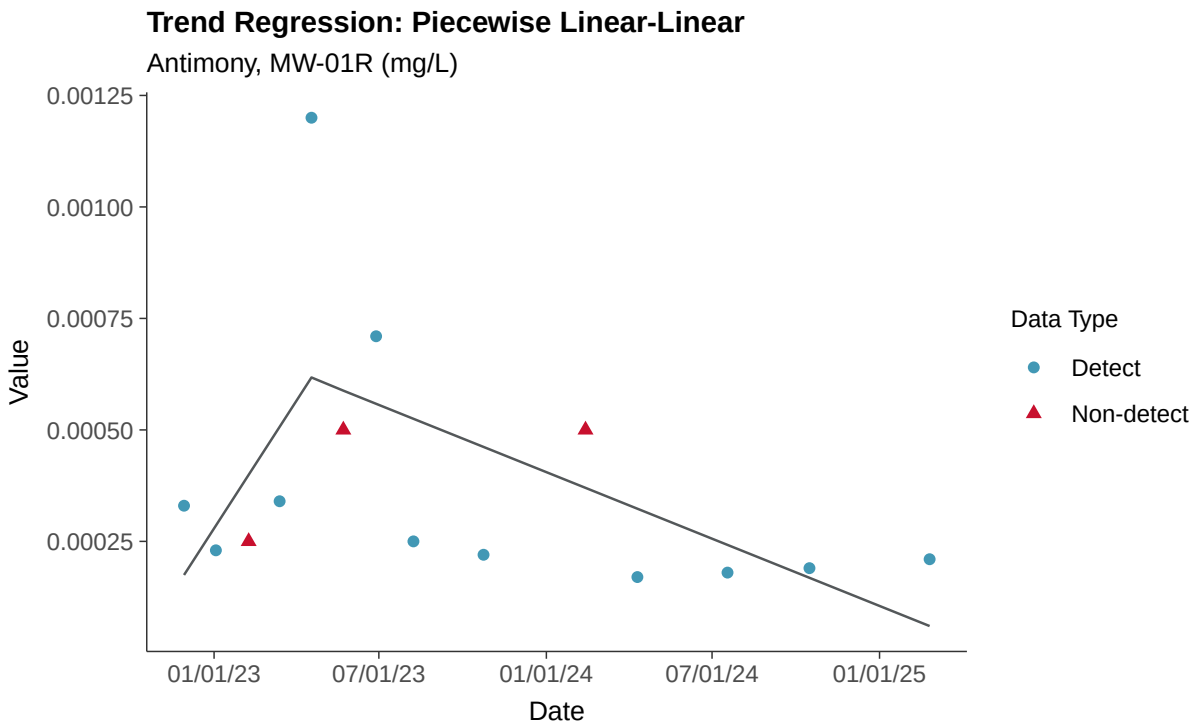
Antimony, MW-01R (mg/L)



Trend Regression: Lognormal MLE

Antimony, MW-01R (mg/L)

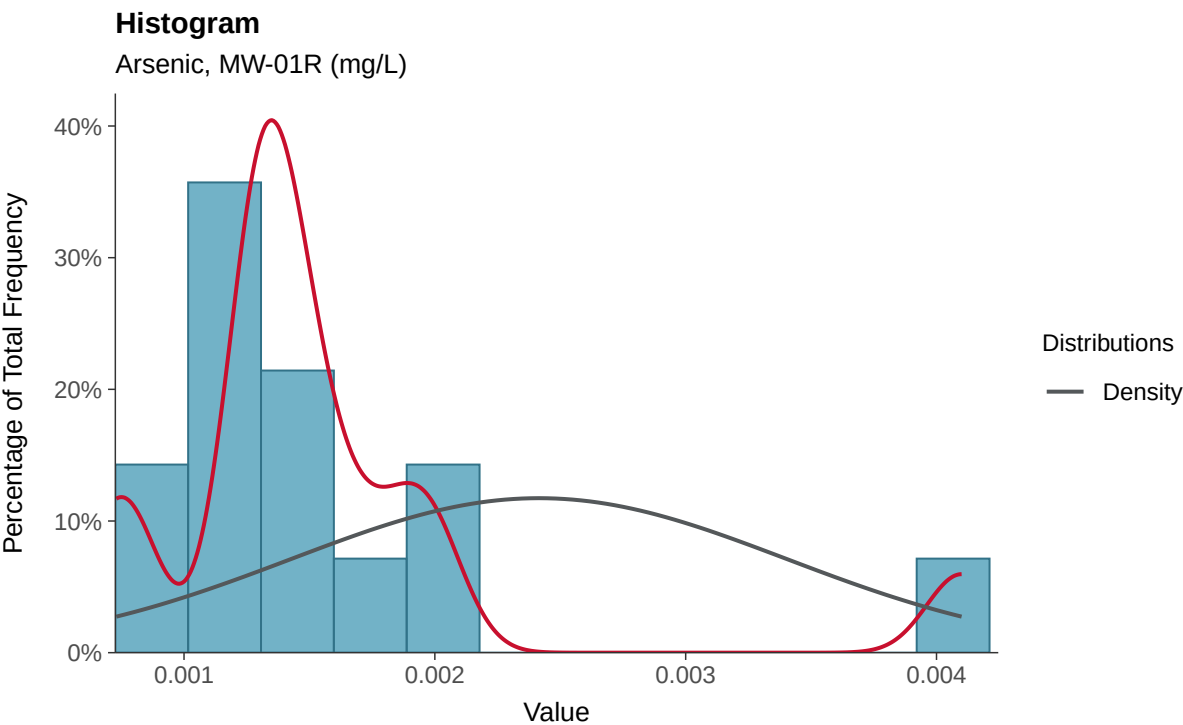
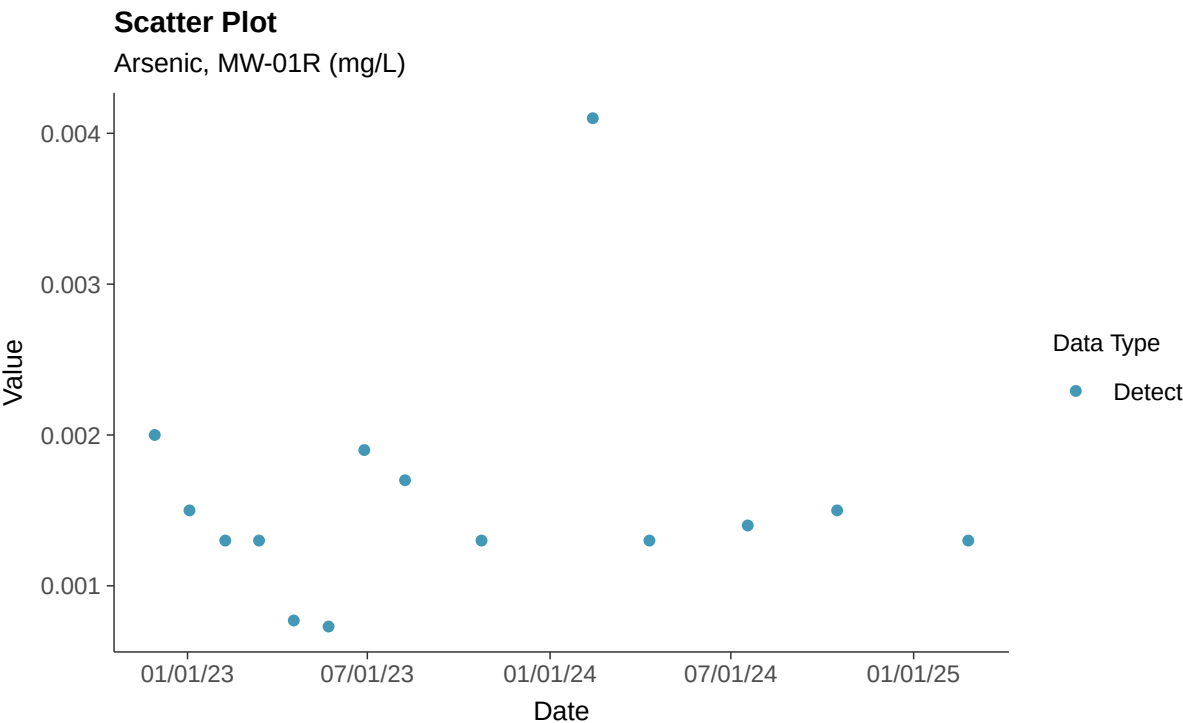


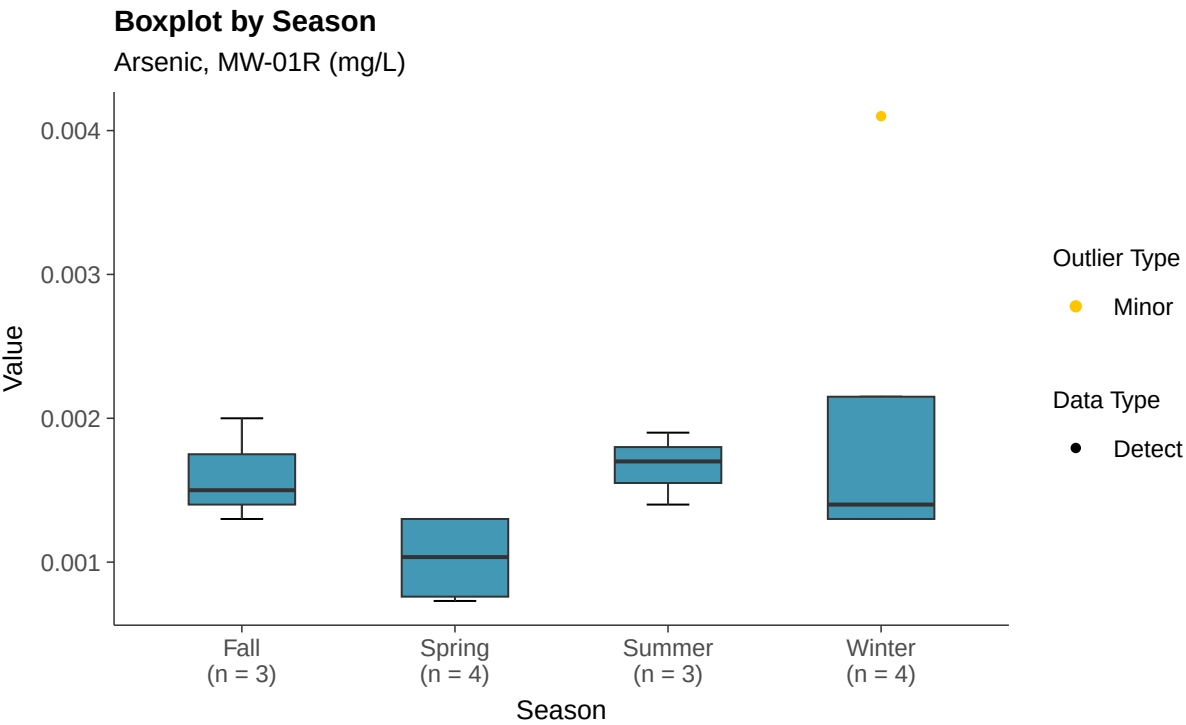
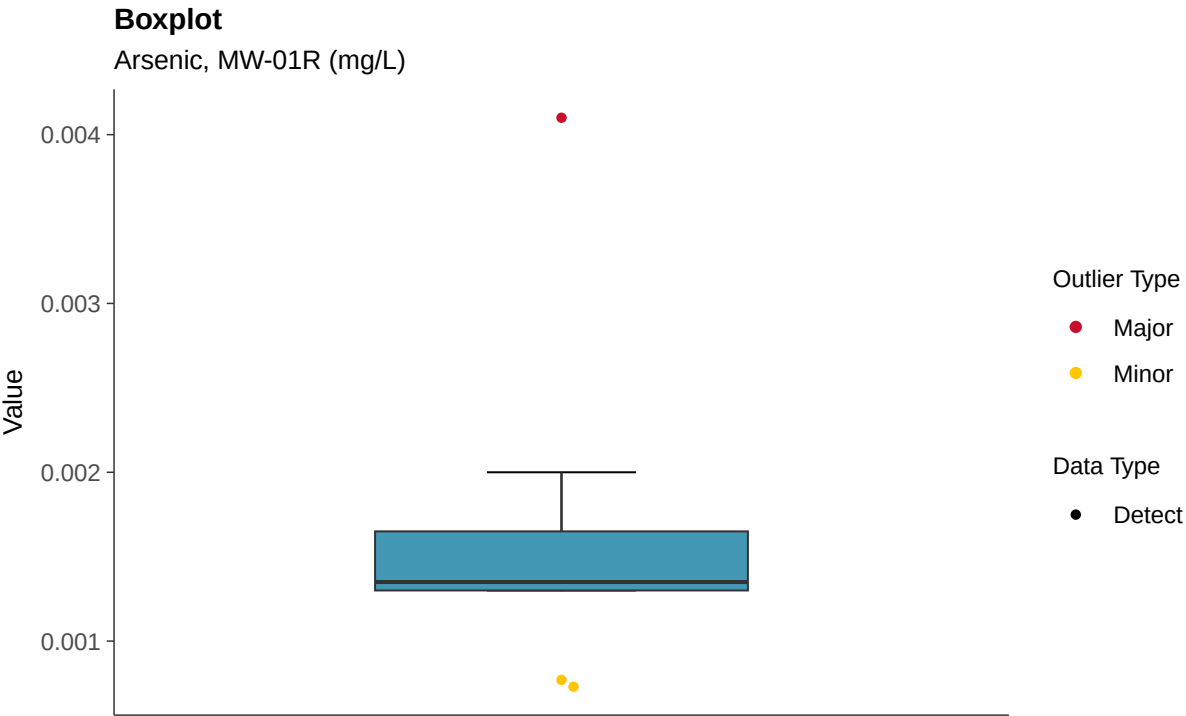


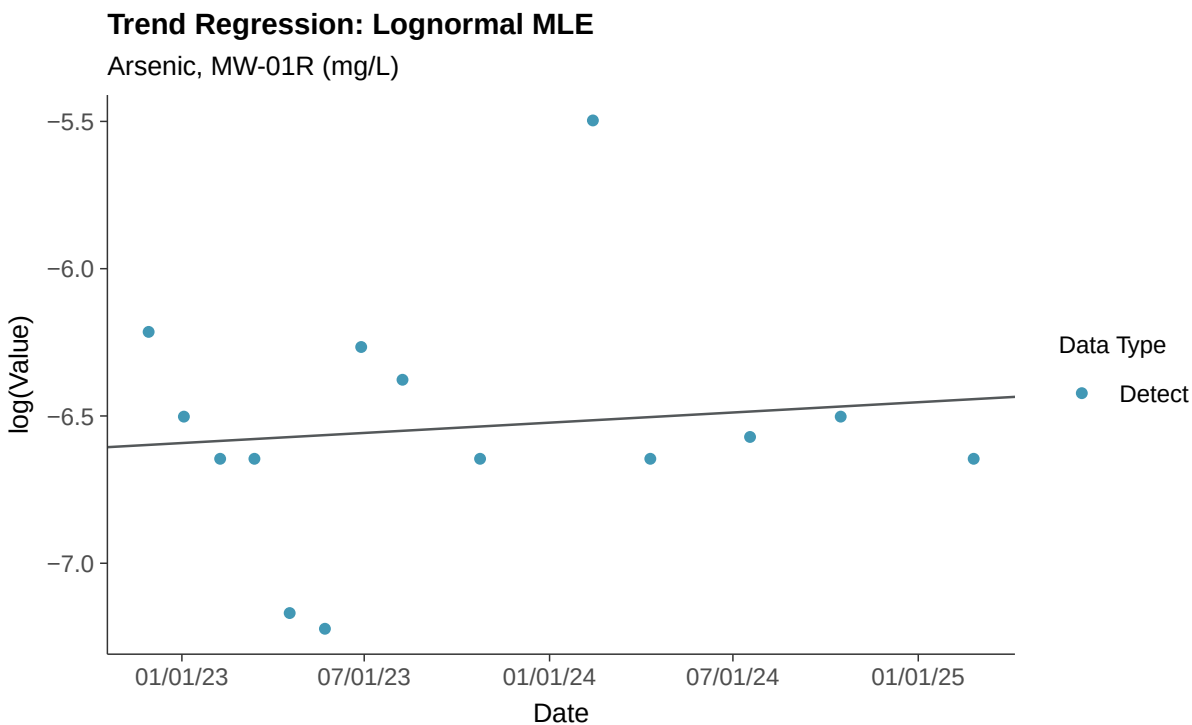
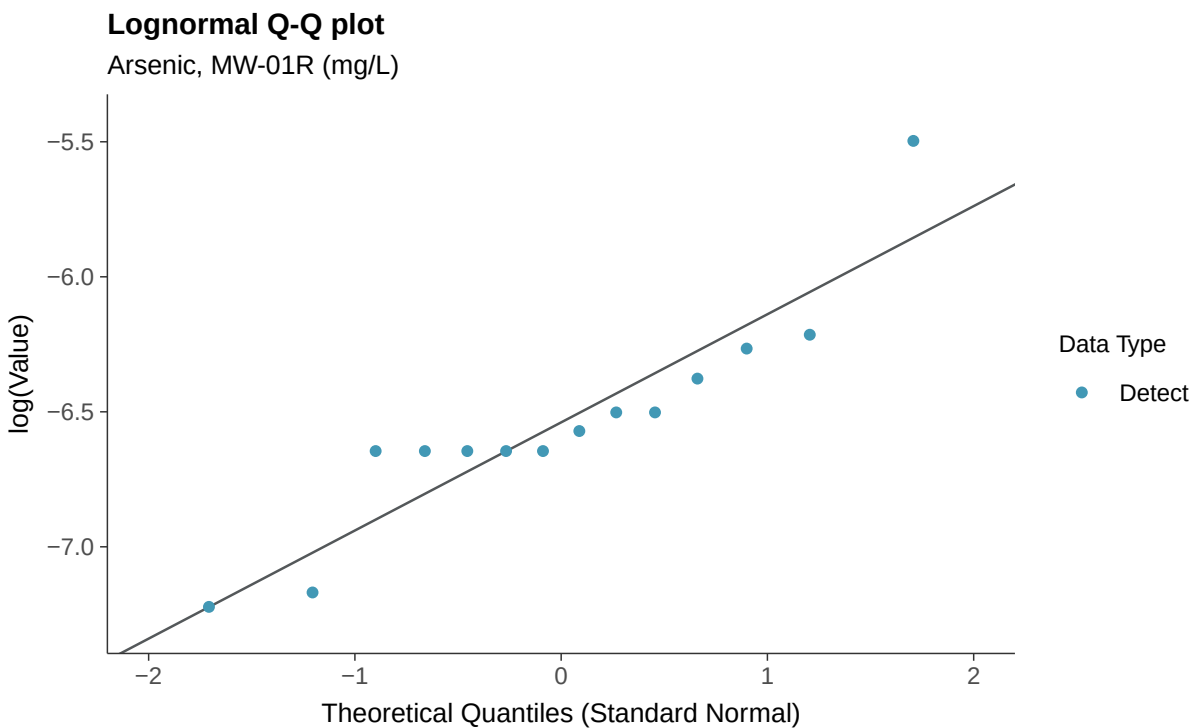


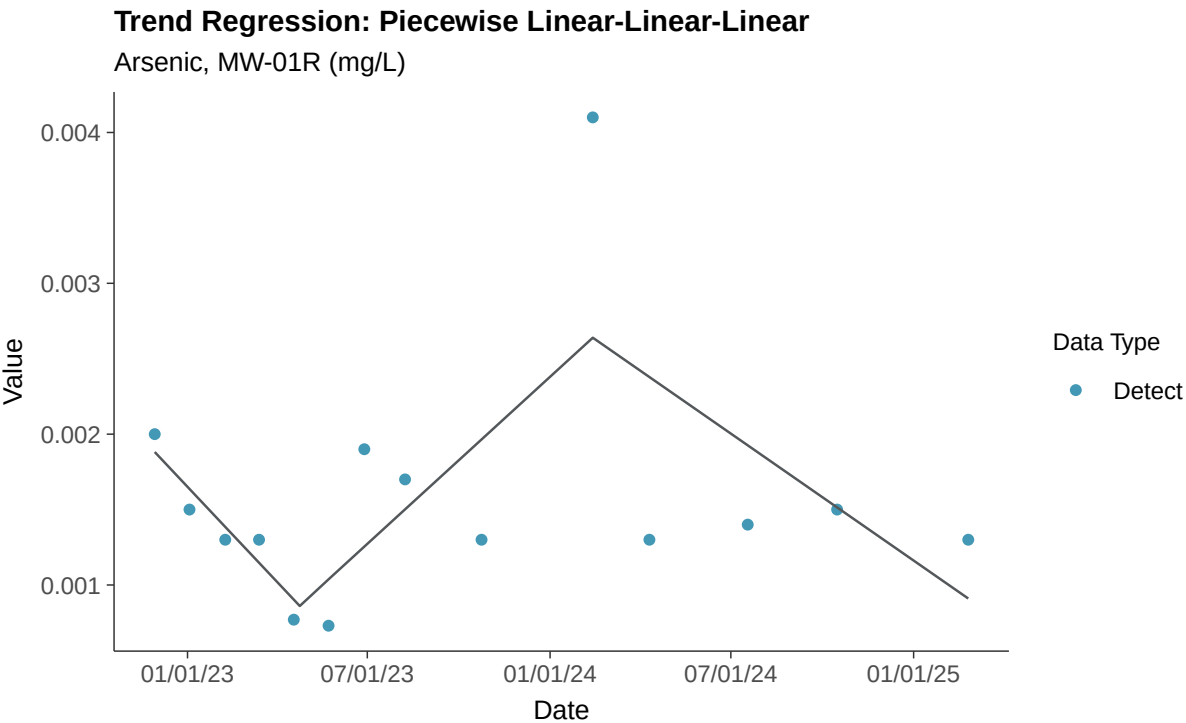
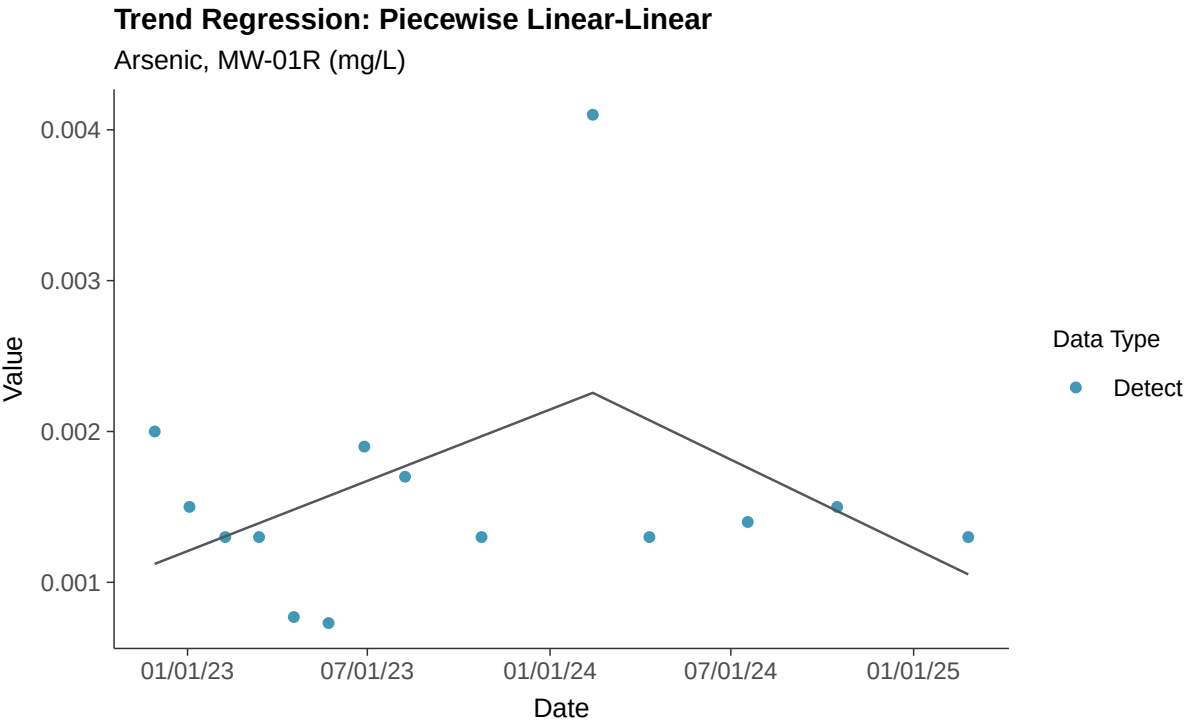
Appendix IV: Arsenic, MW-01R

ID: 11_2_4_102





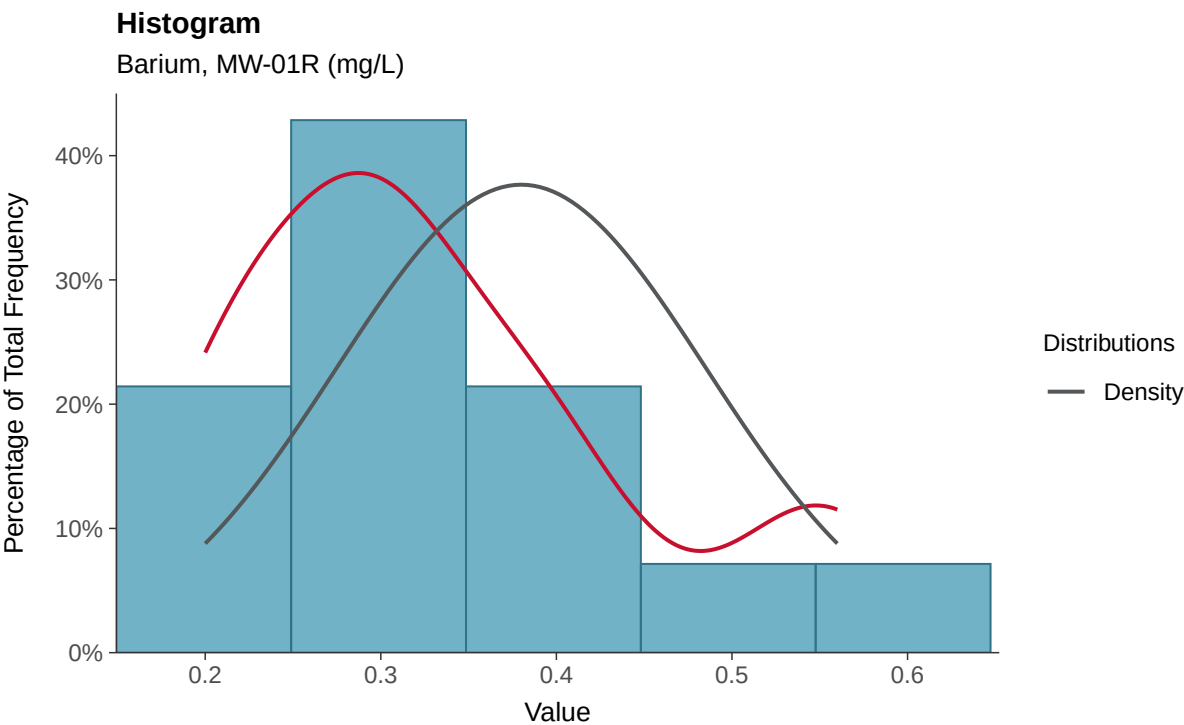
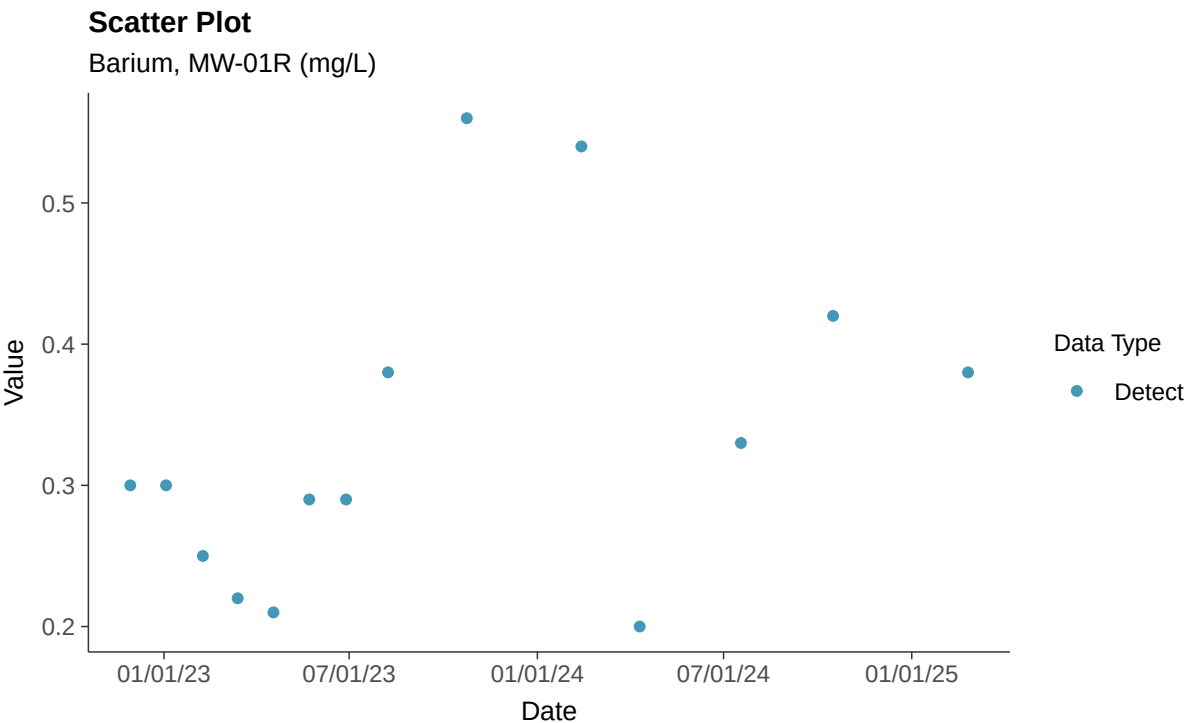


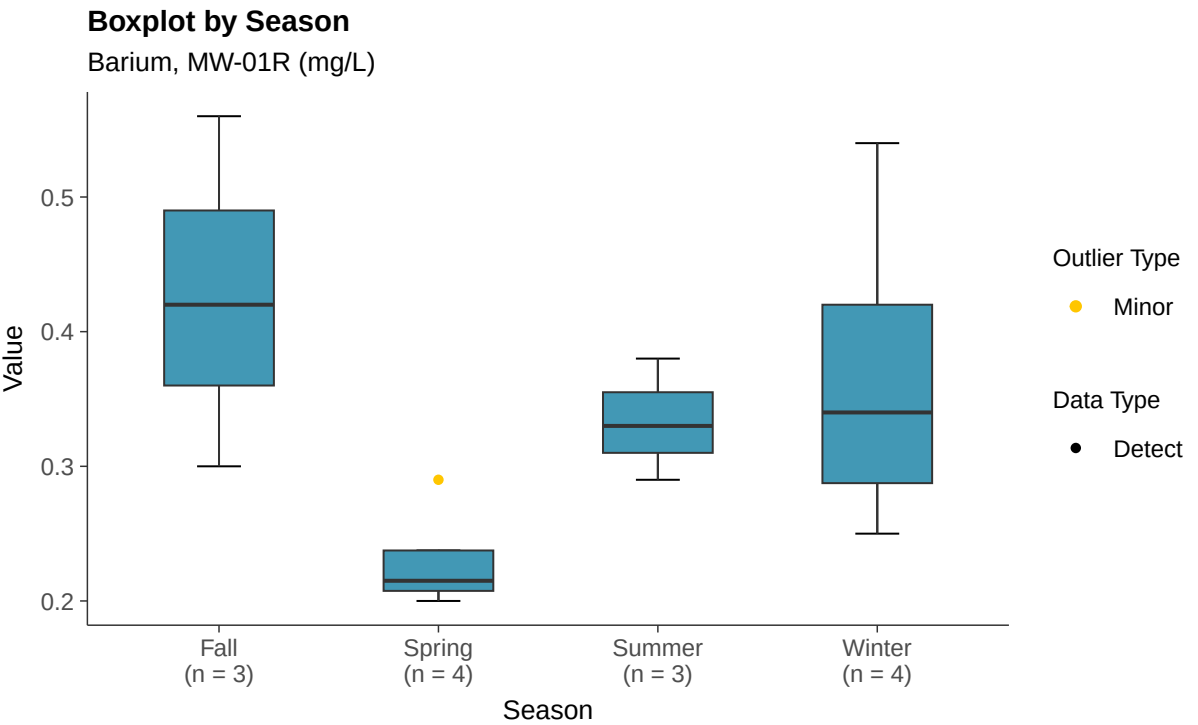
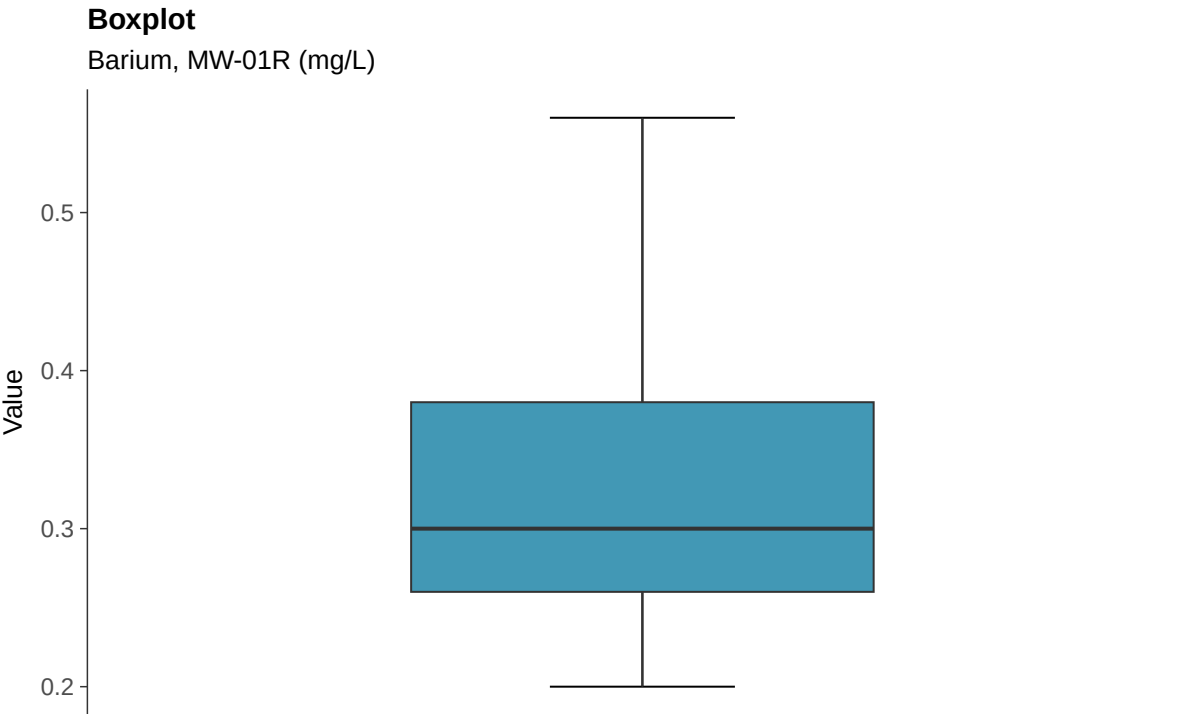


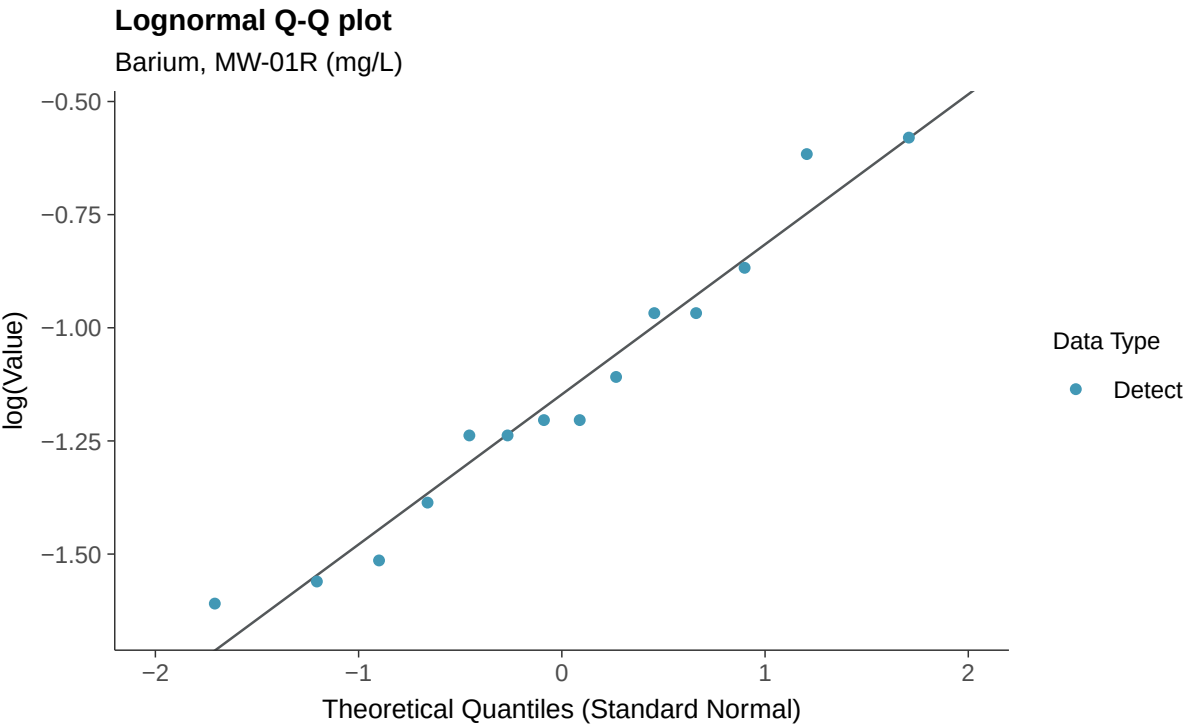
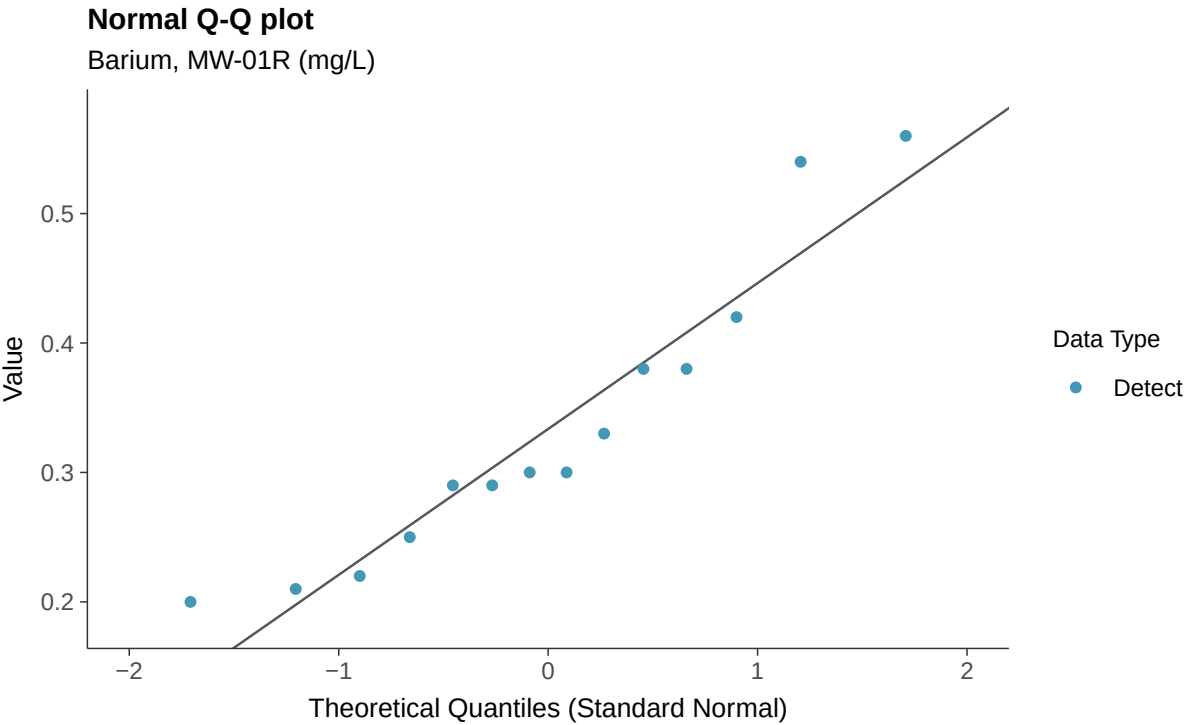


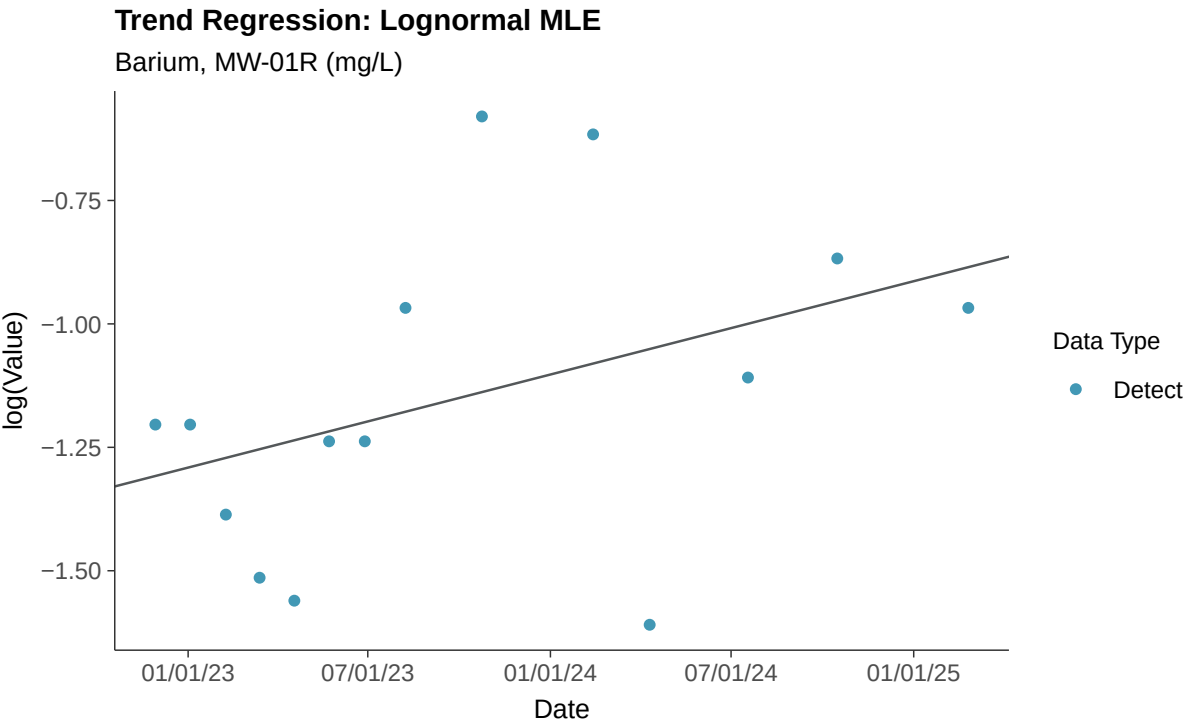
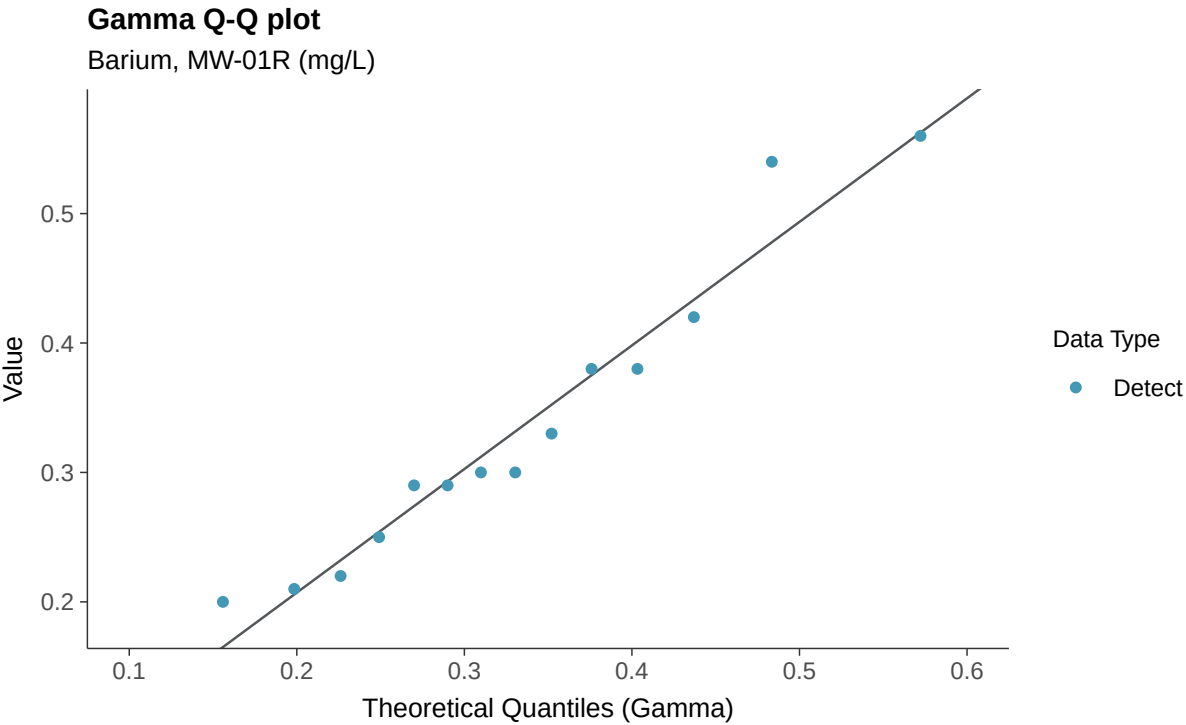
Appendix IV: Barium, MW-01R

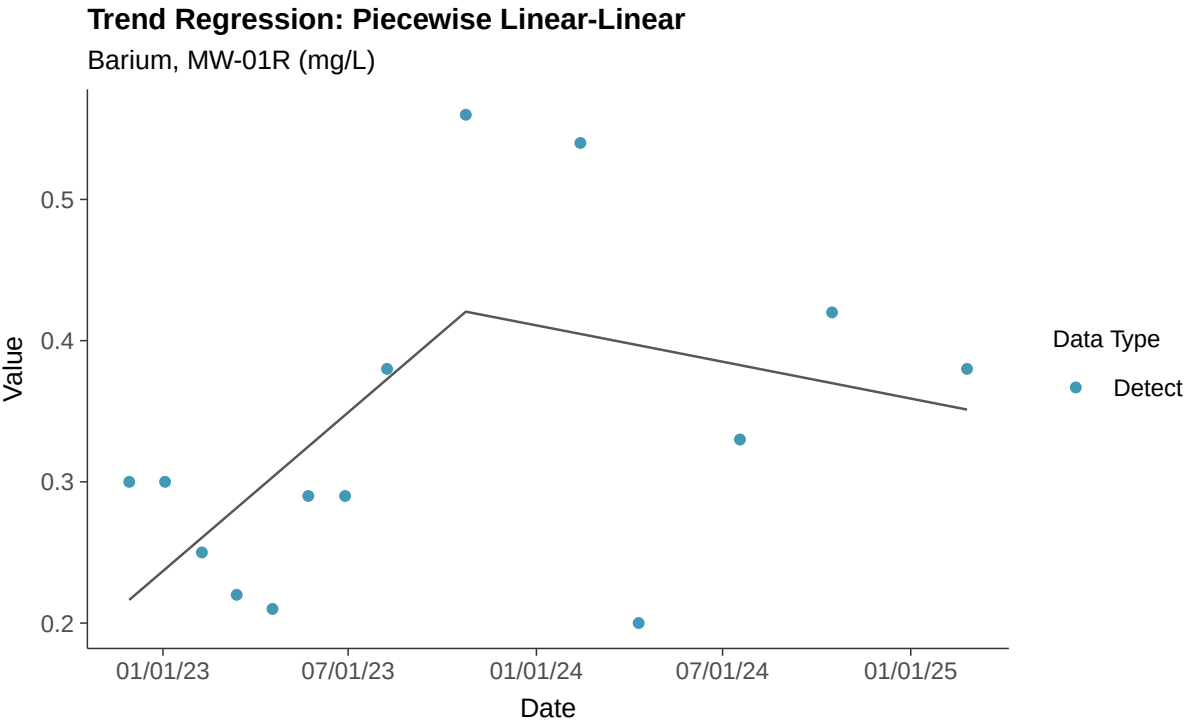
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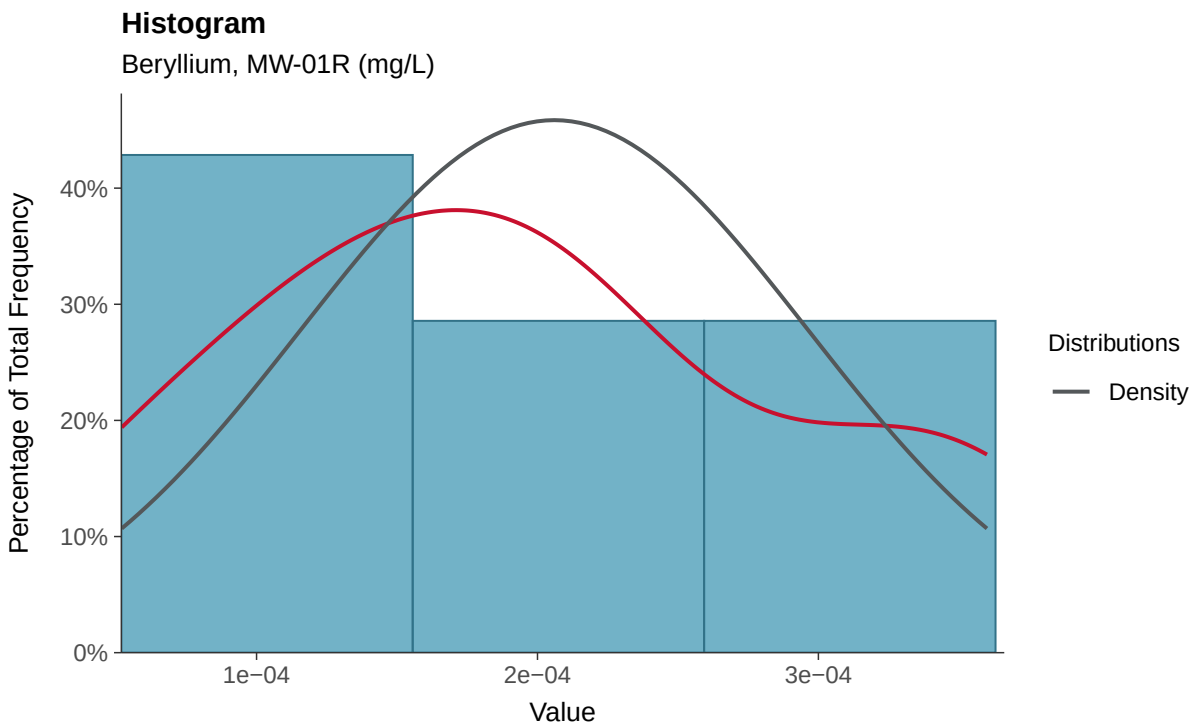
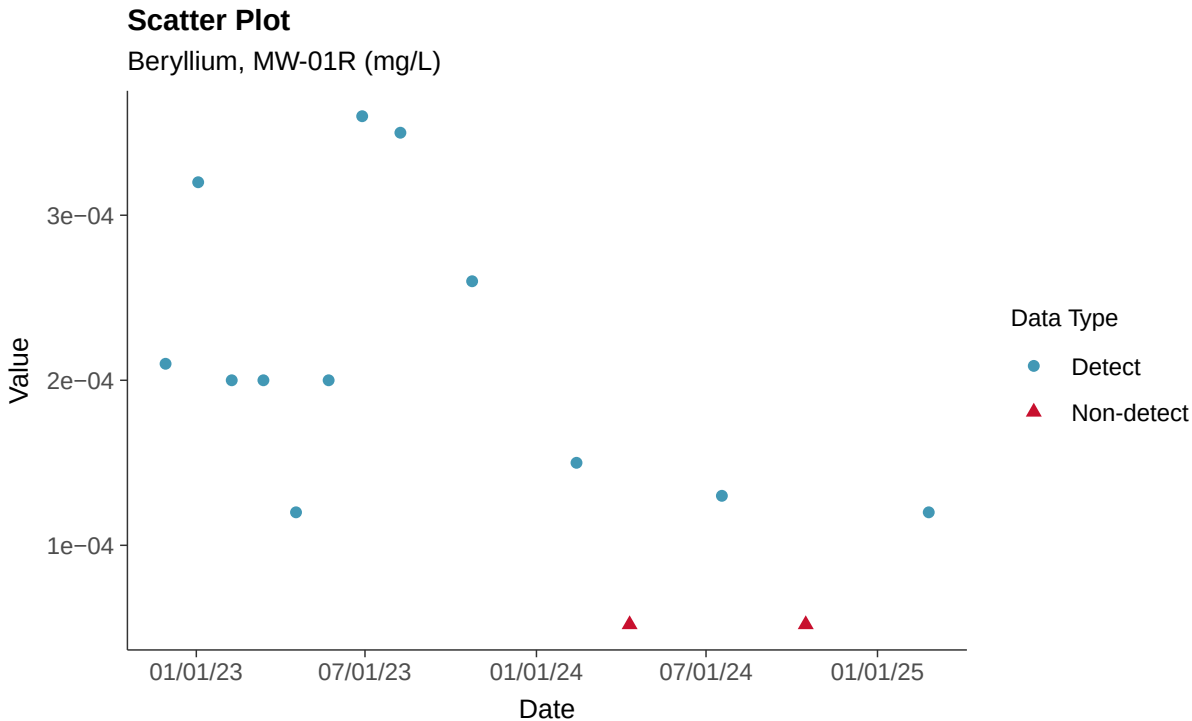


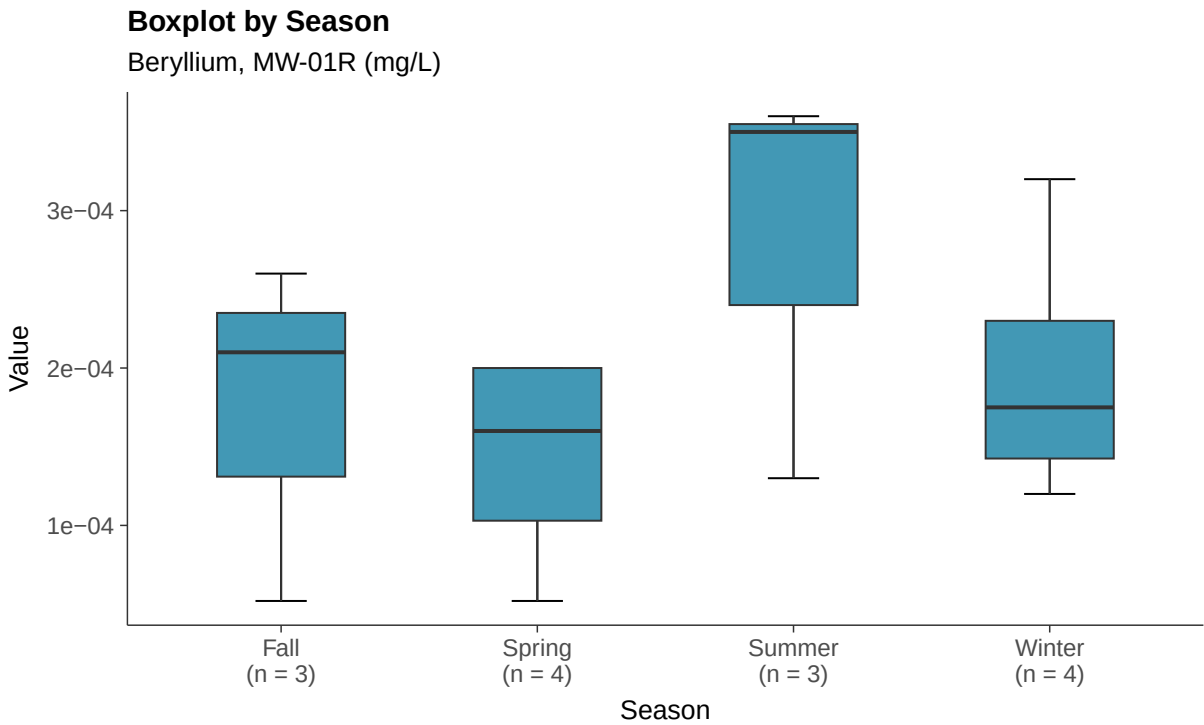
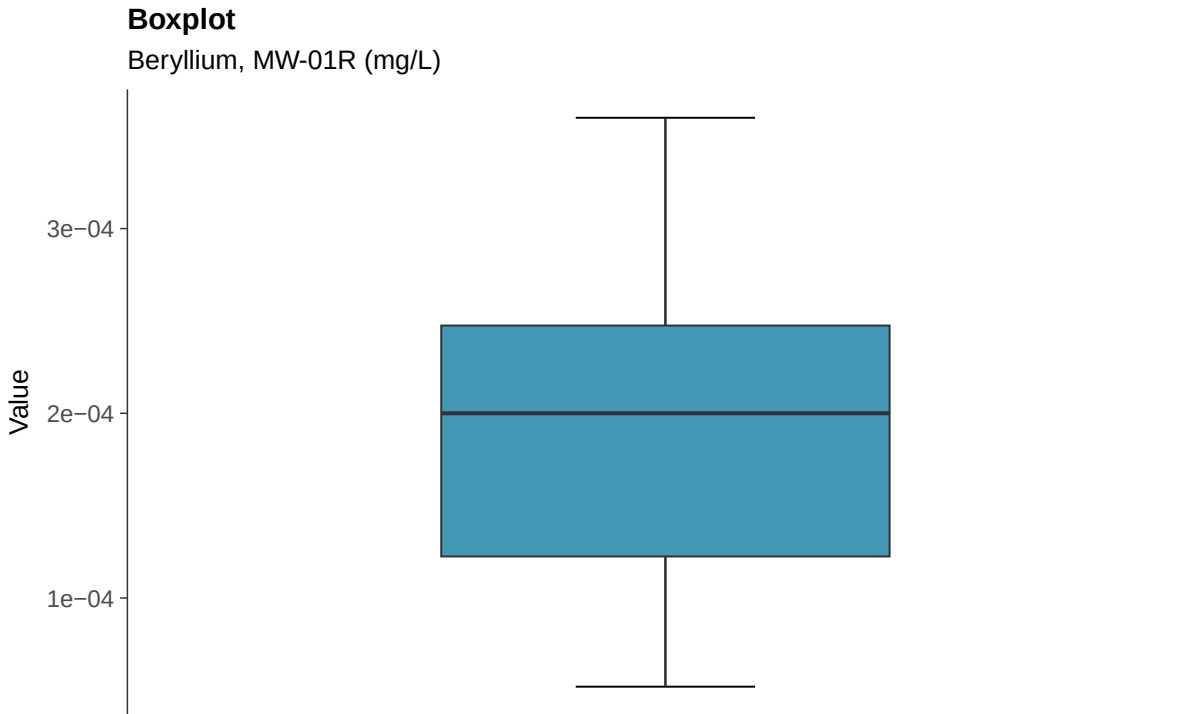




Appendix IV: Beryllium, MW-01R

ID: 11_2_4_104

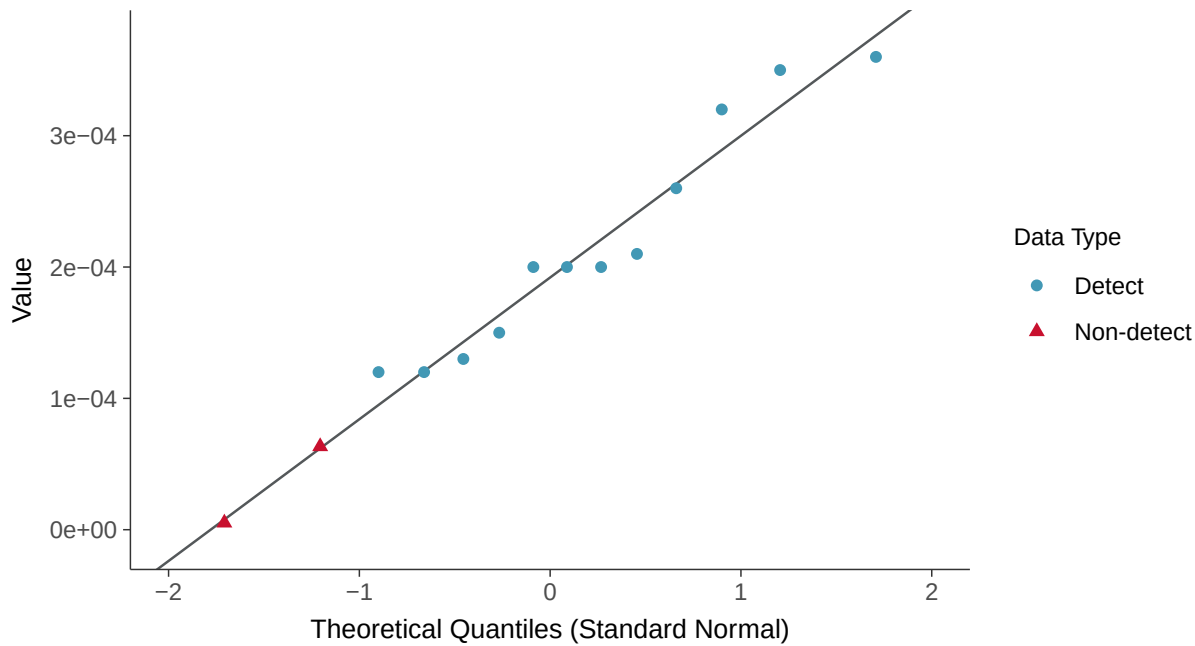






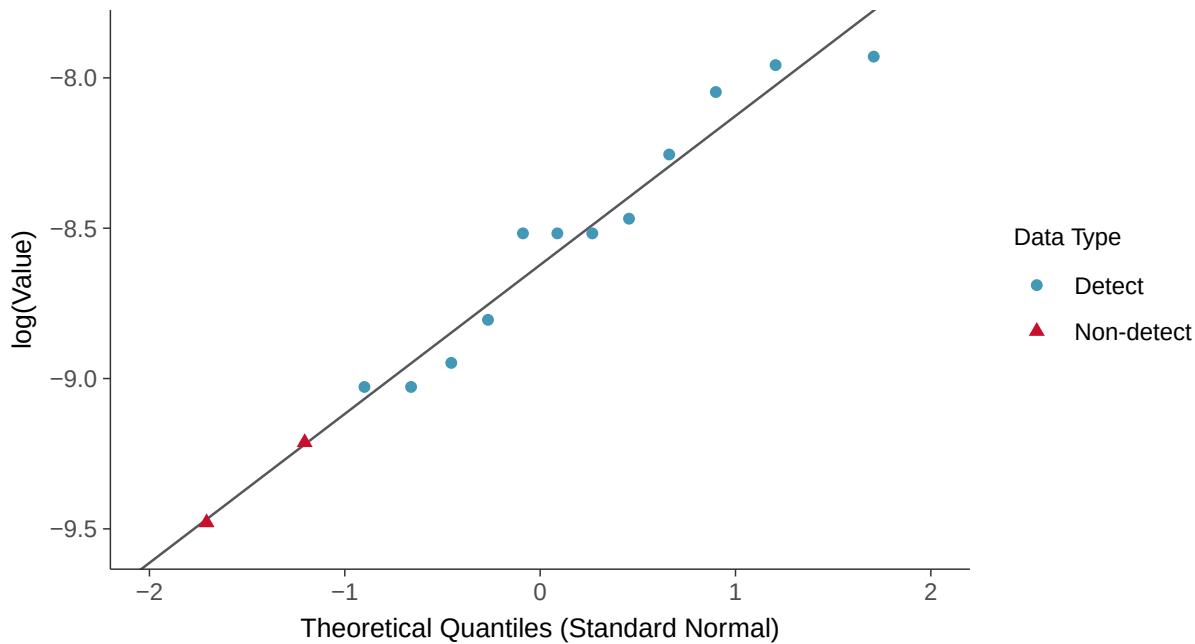
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-01R (mg/L)

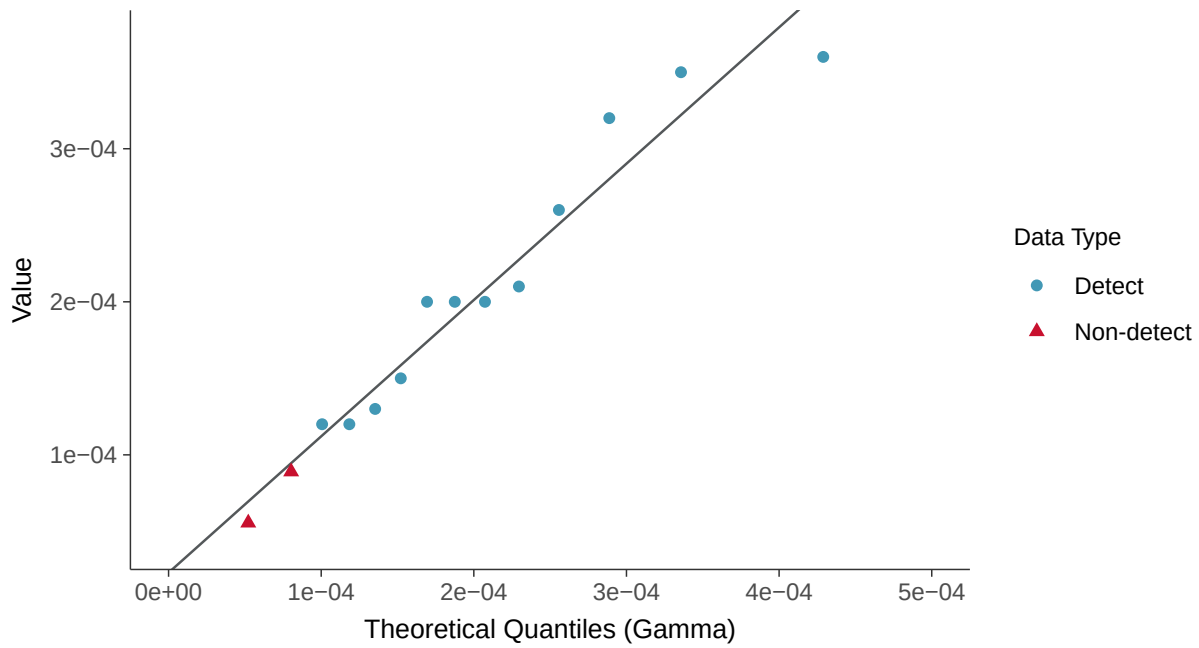


Lognormal Q-Q plot using ROS Imputed Estimates

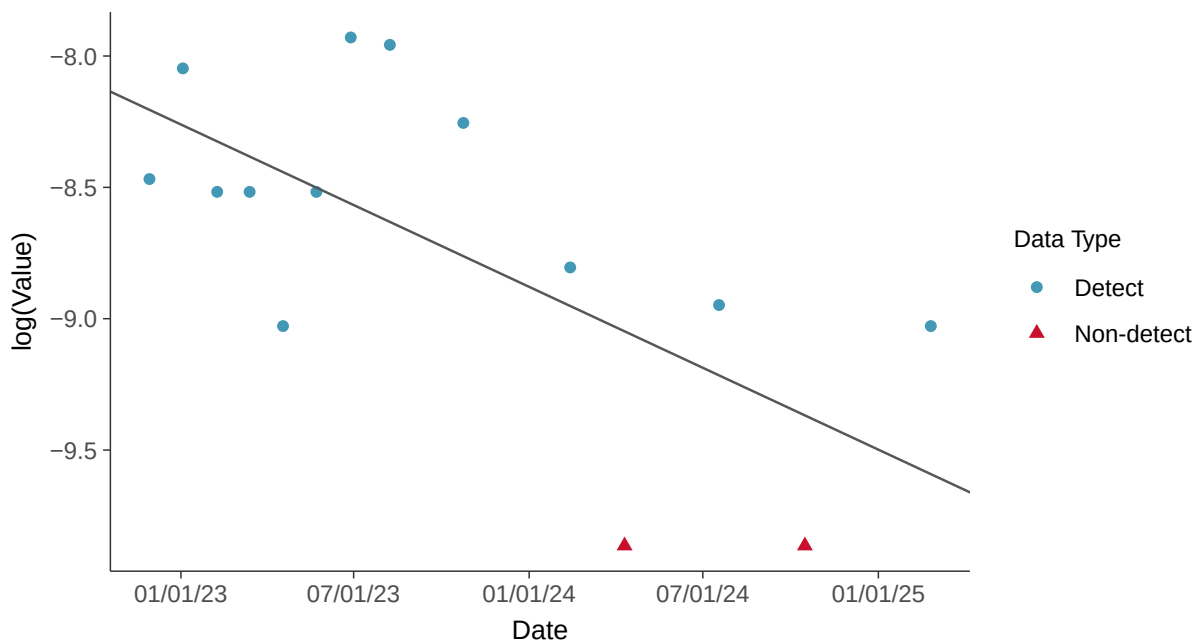
Beryllium, MW-01R (mg/L)

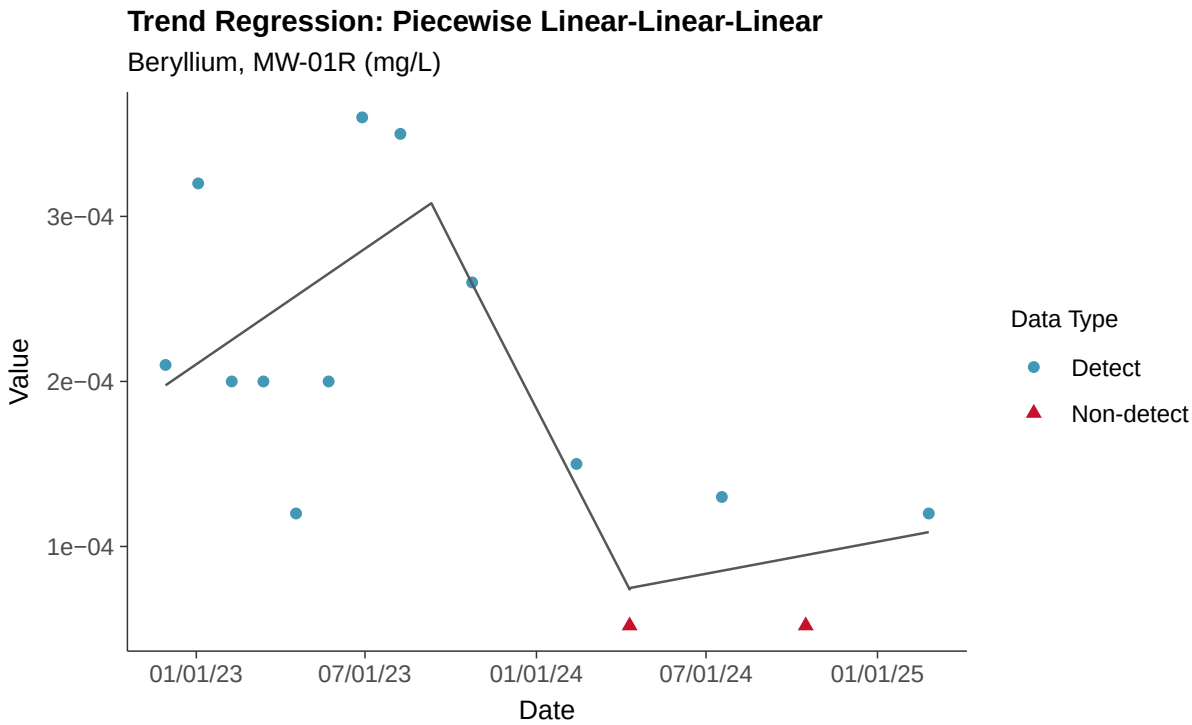
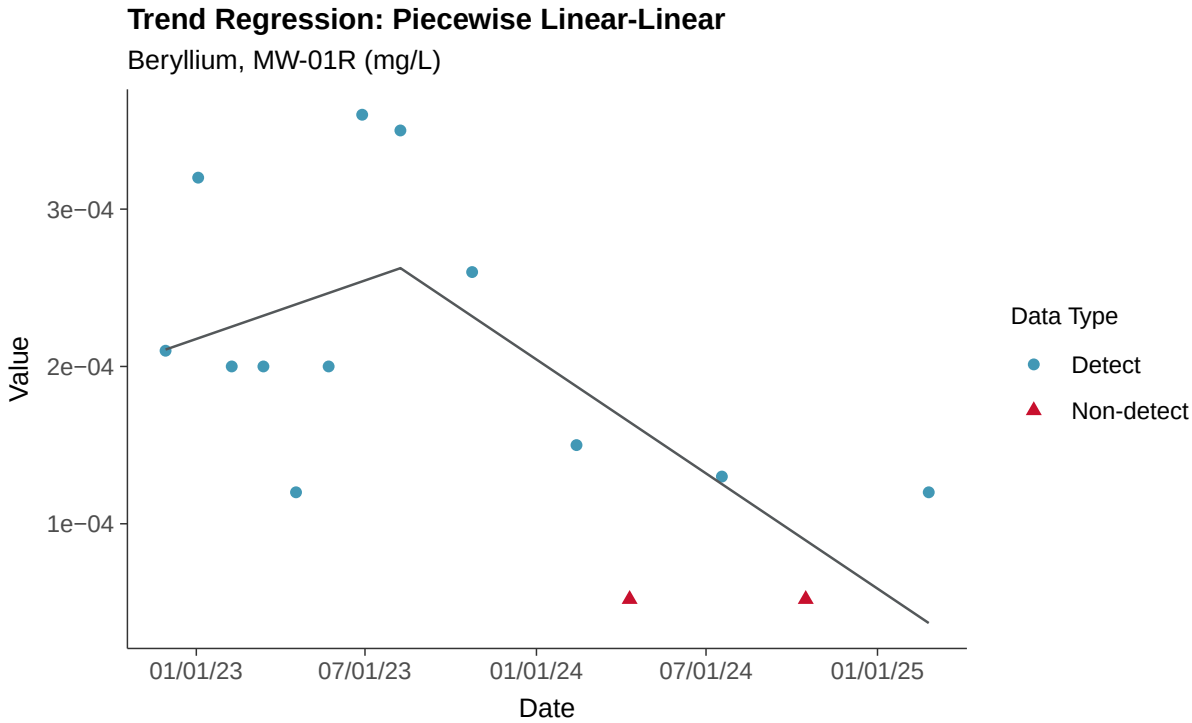


Beryllium, MW-01R (mg/L)



Beryllium, MW-01R (mg/L)

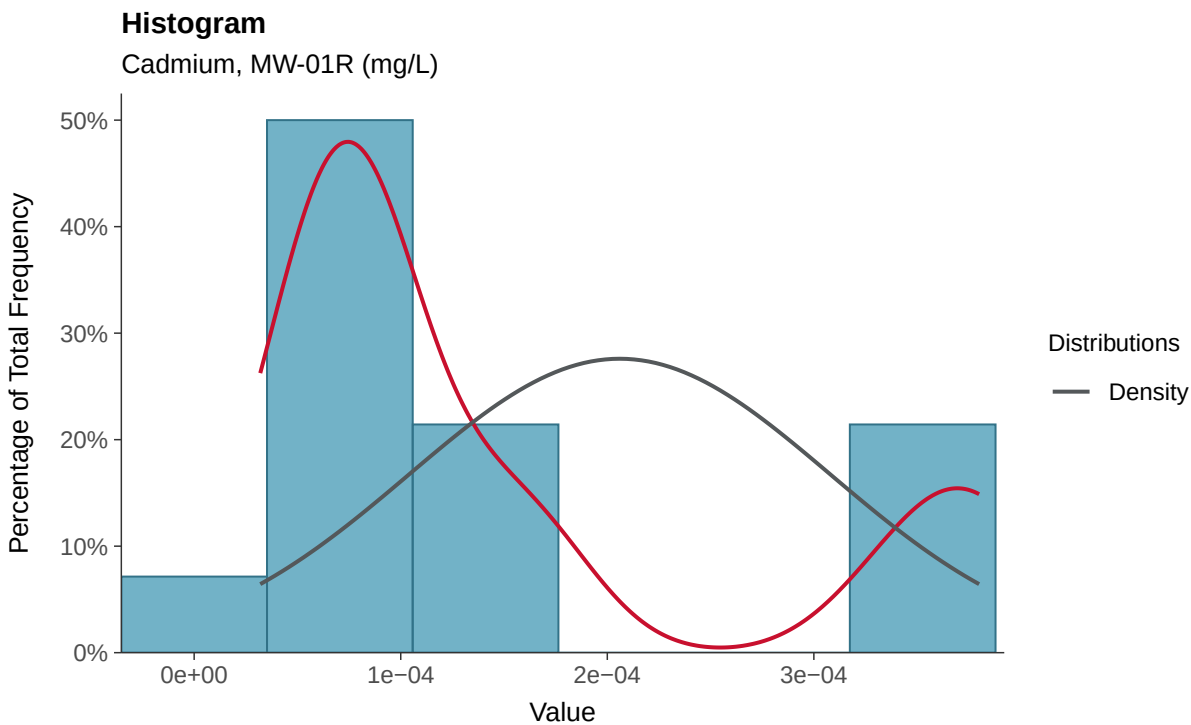
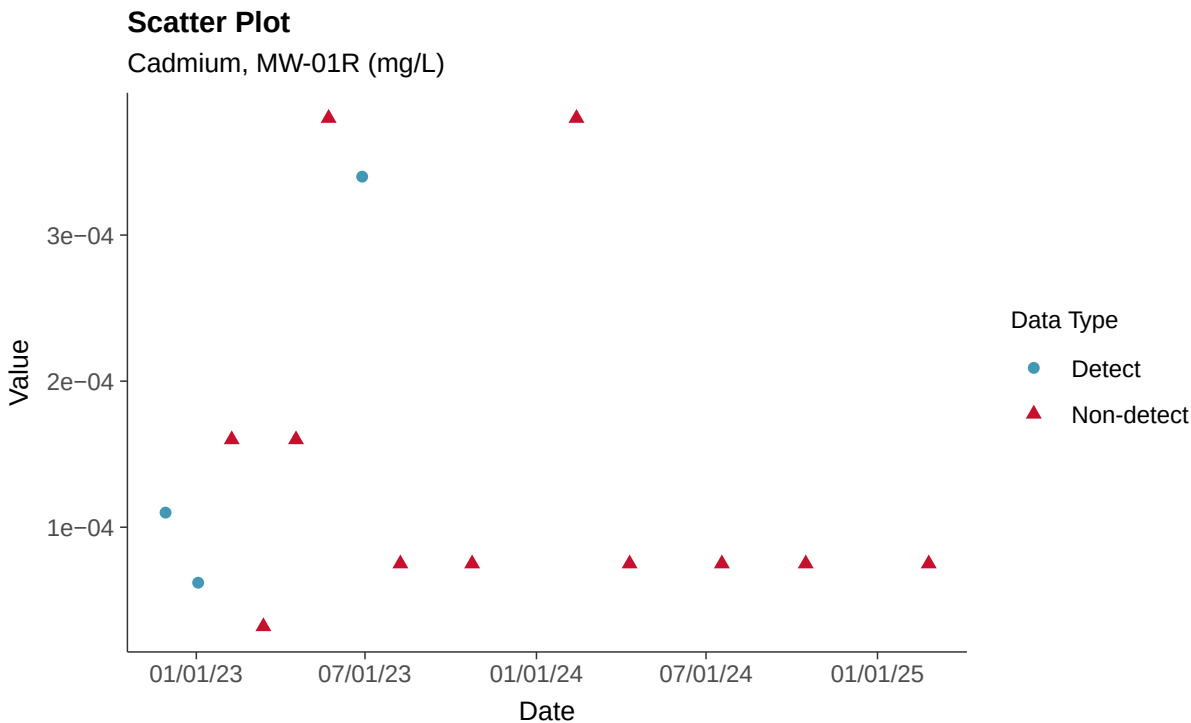


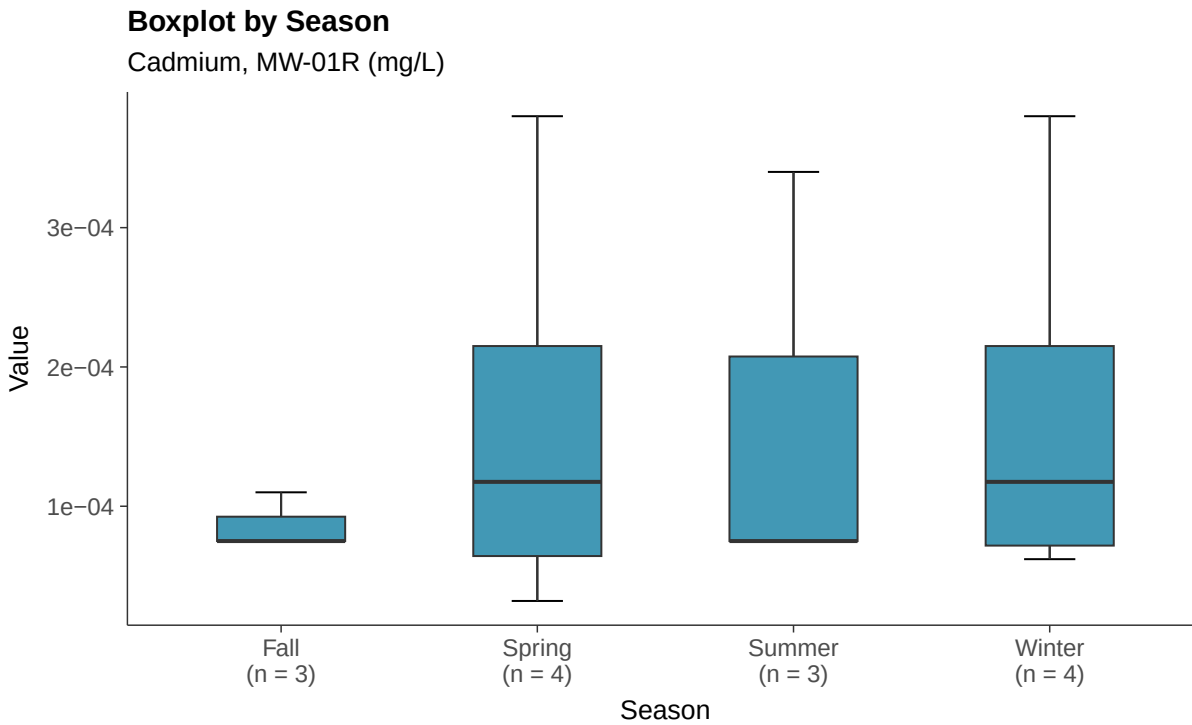
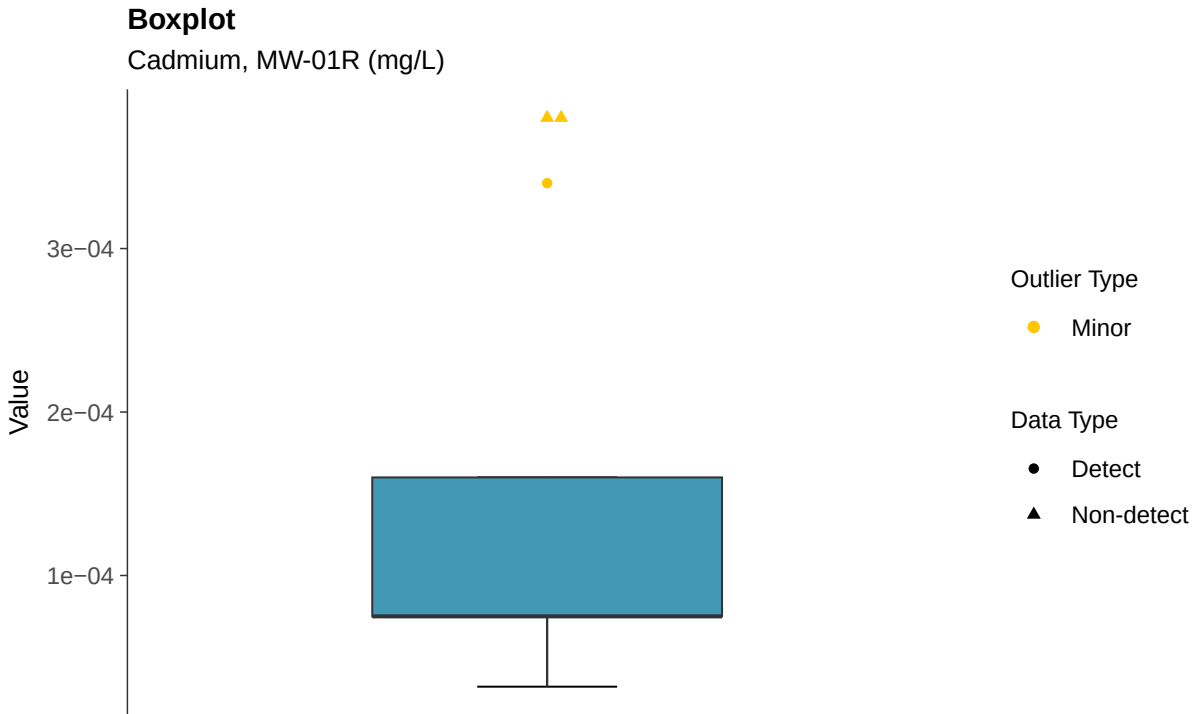




Appendix IV: Cadmium, MW-01R

ID: 11_2_4_106

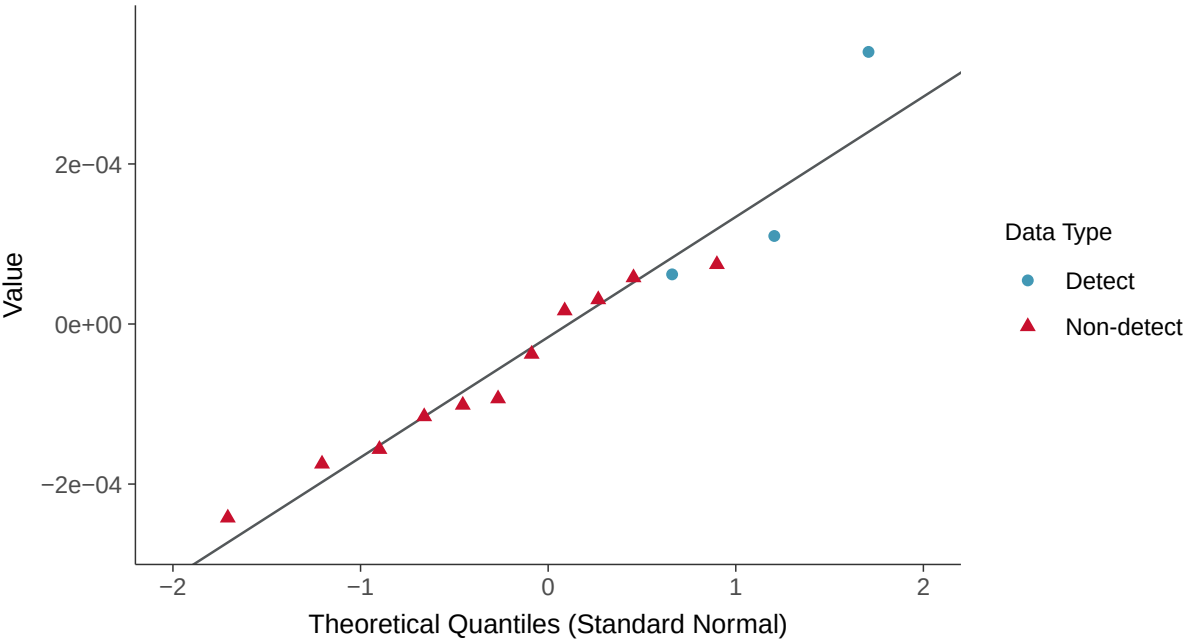






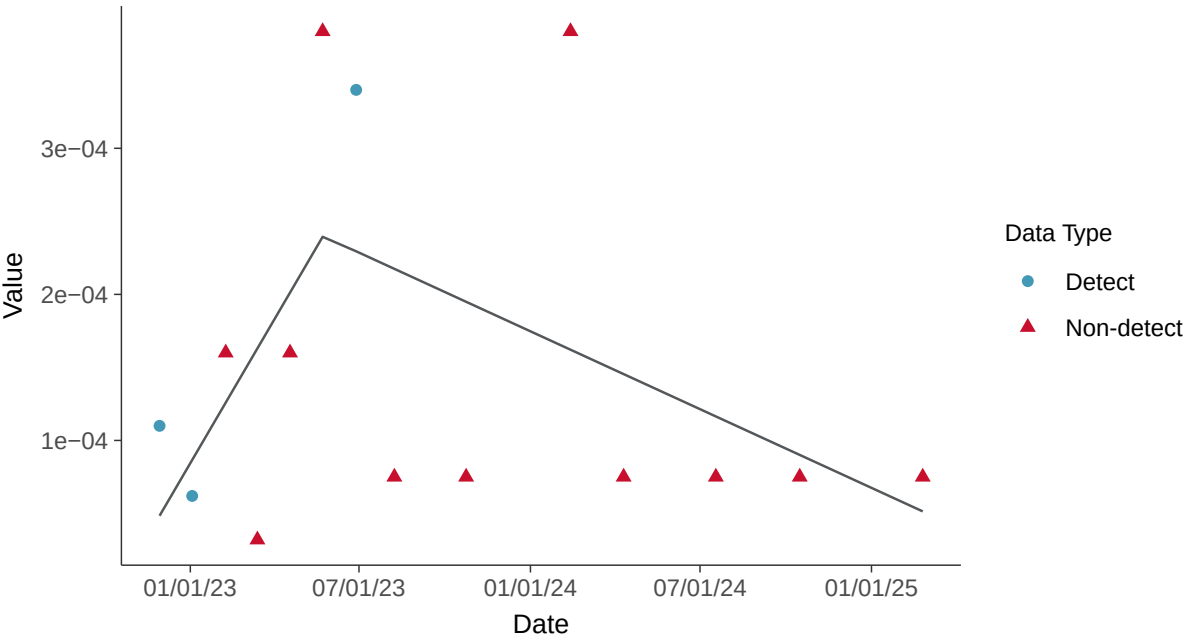
Normal Q-Q plot using ROS Imputed Estimates

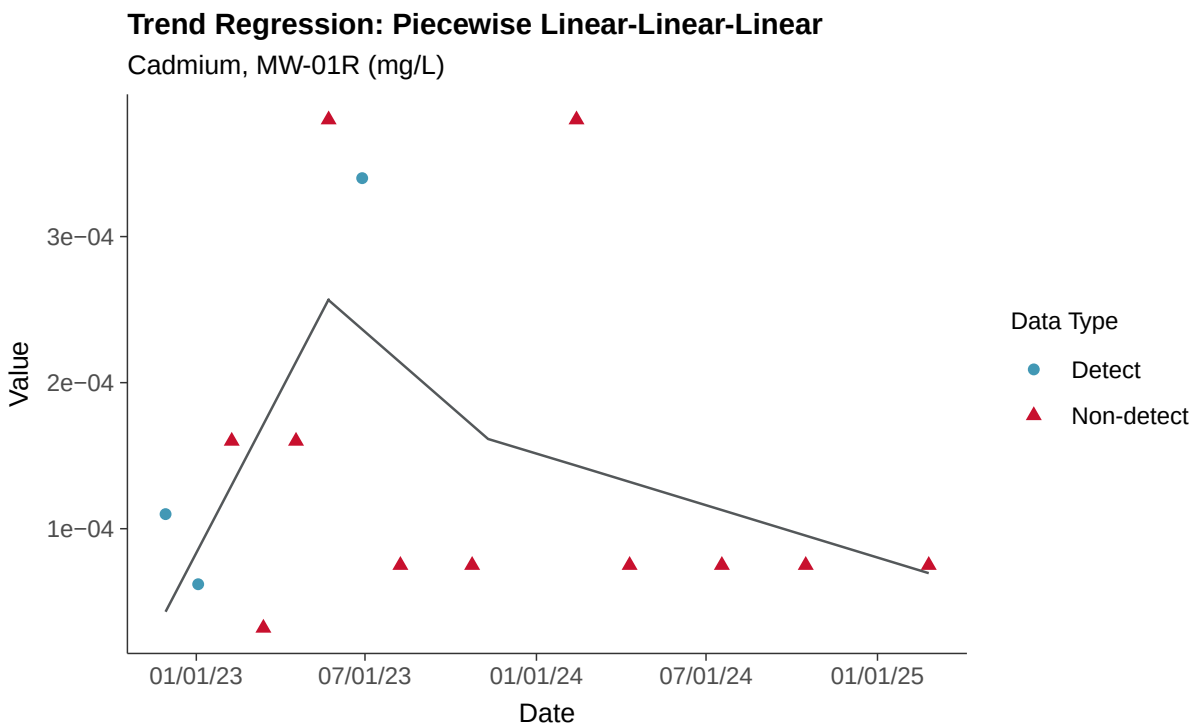
Cadmium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-01R (mg/L)

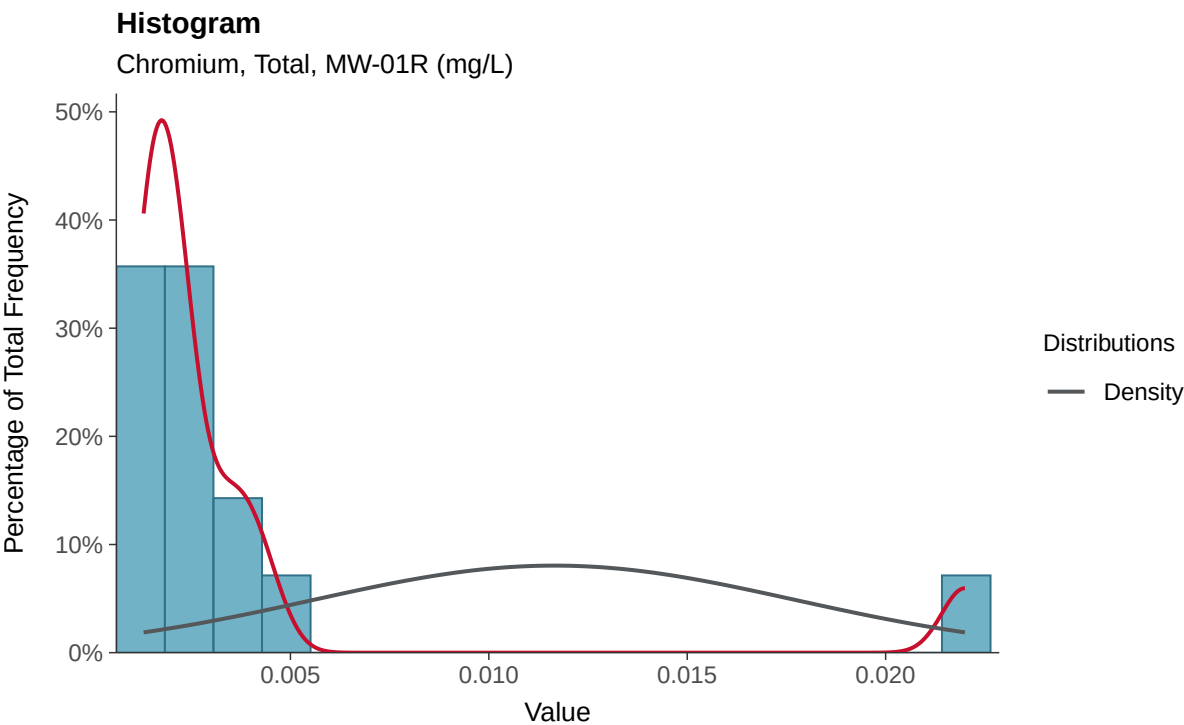
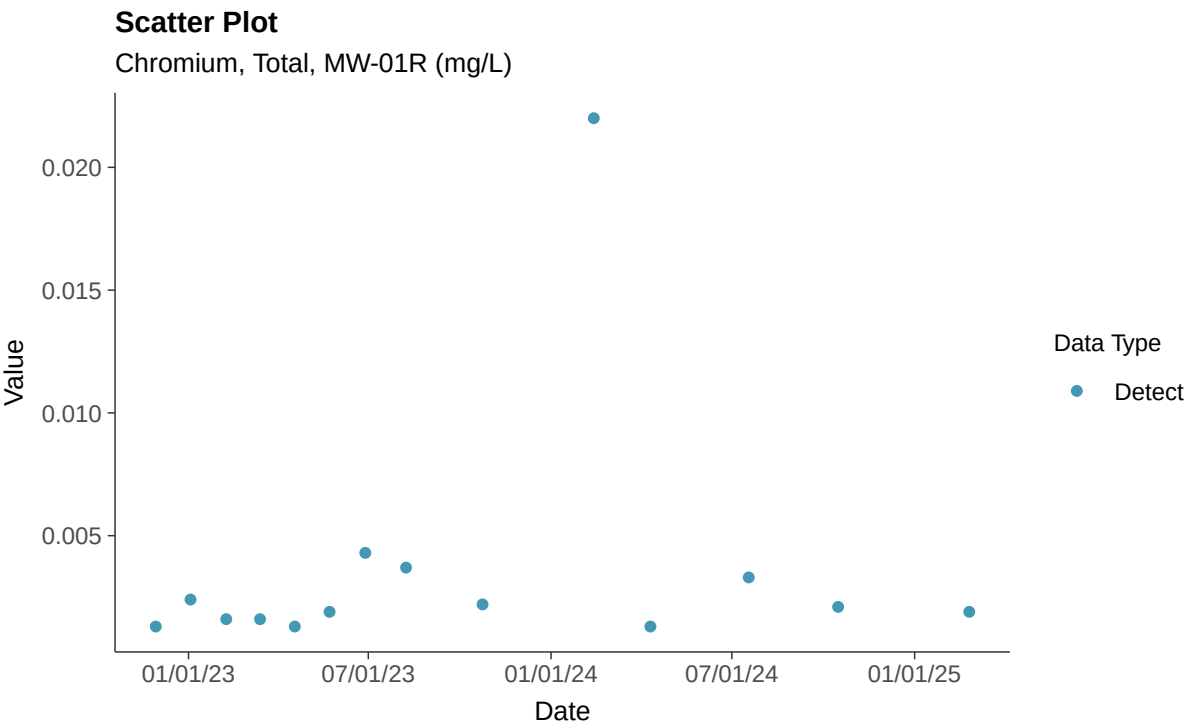


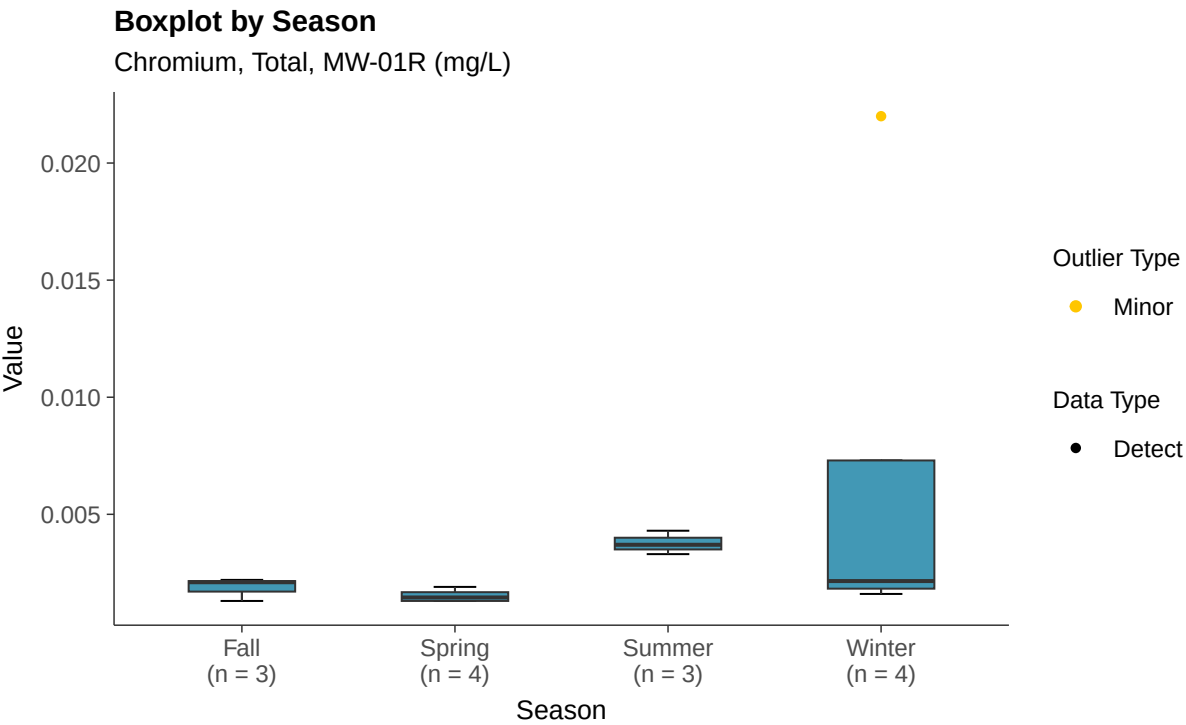
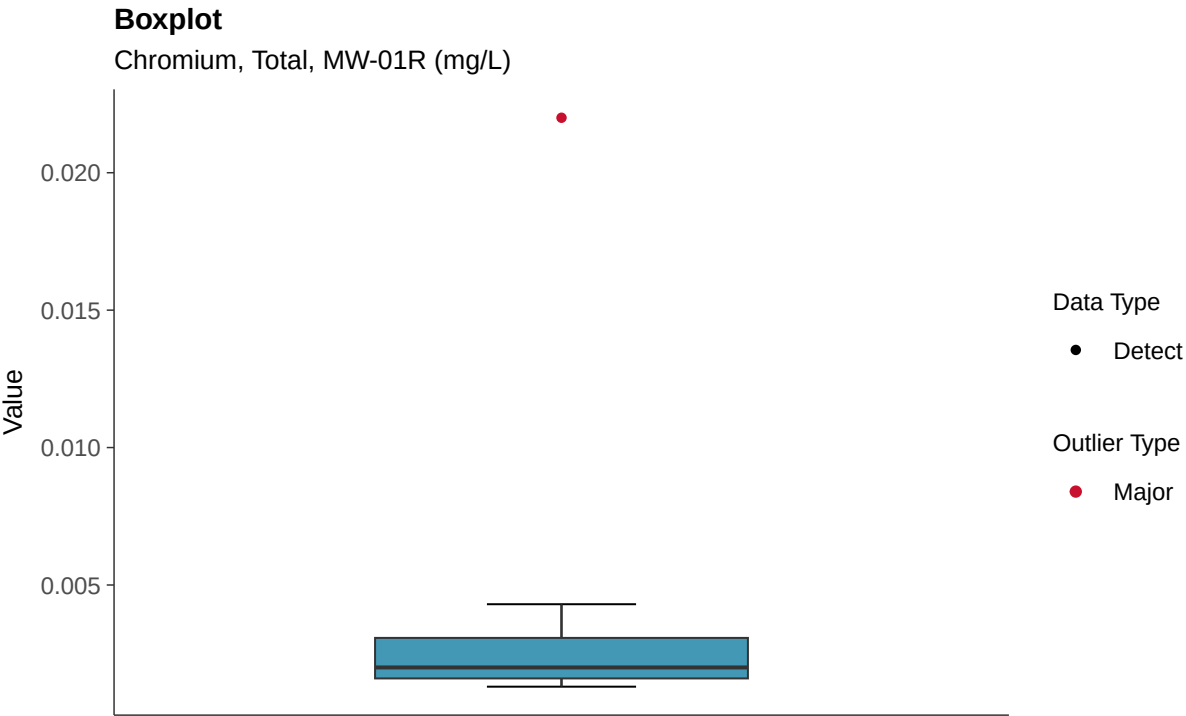


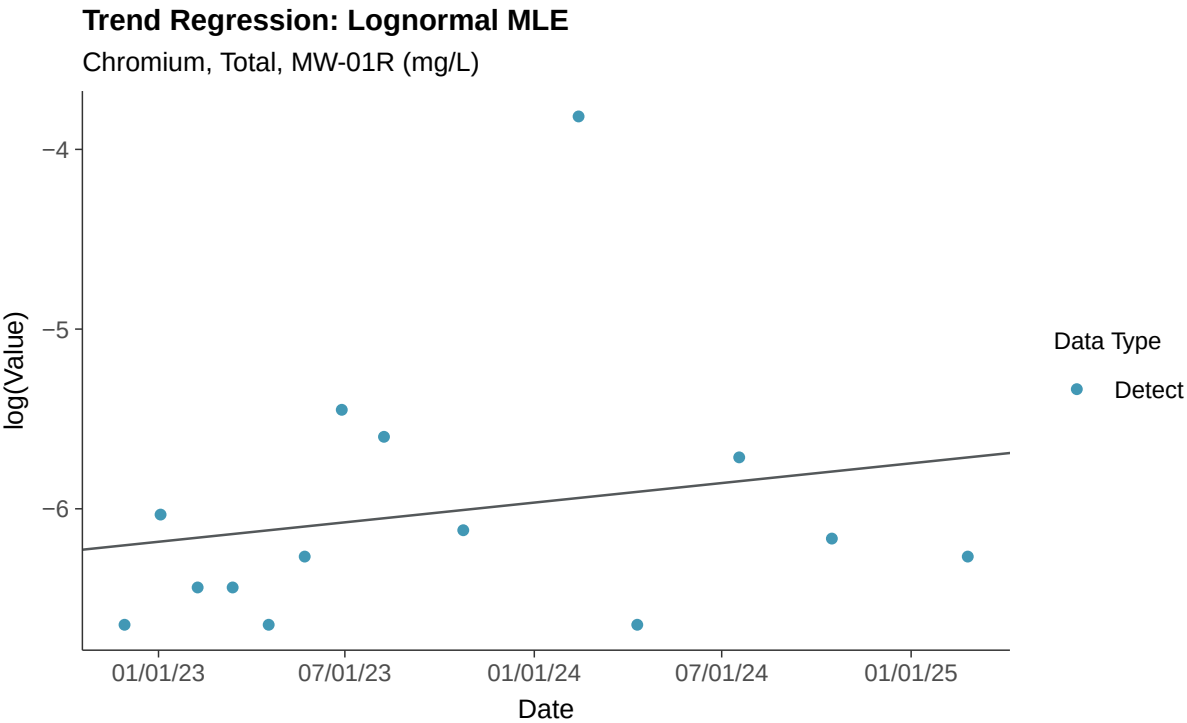
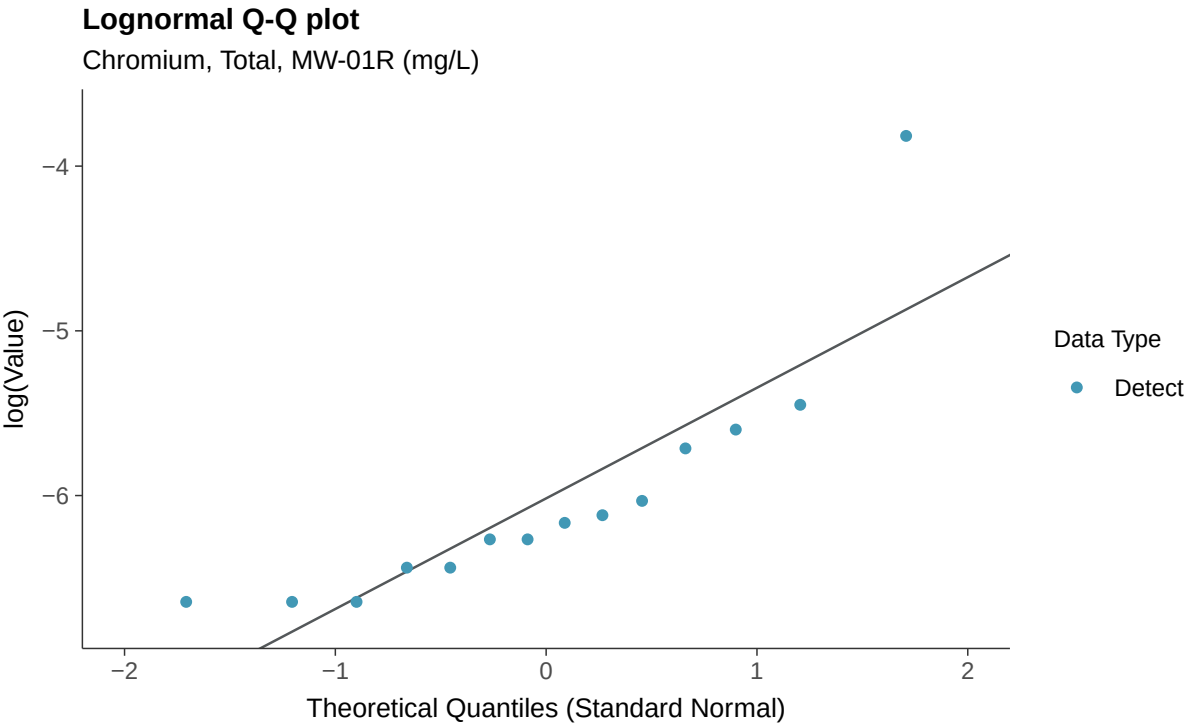


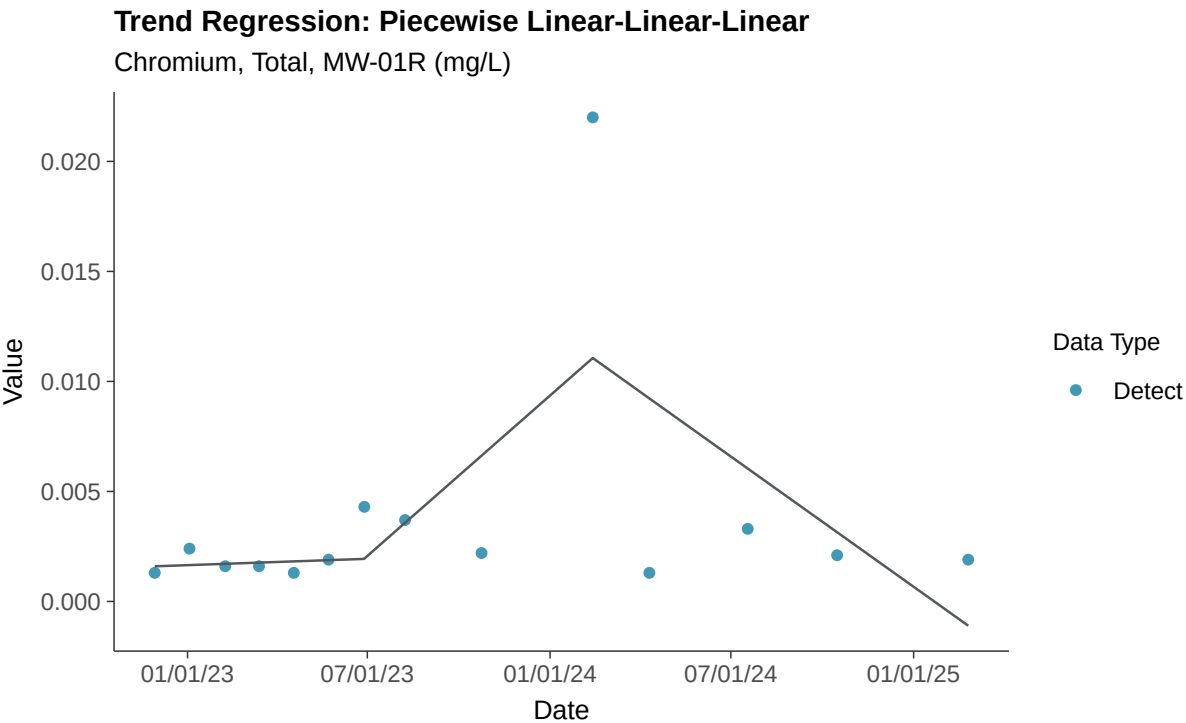
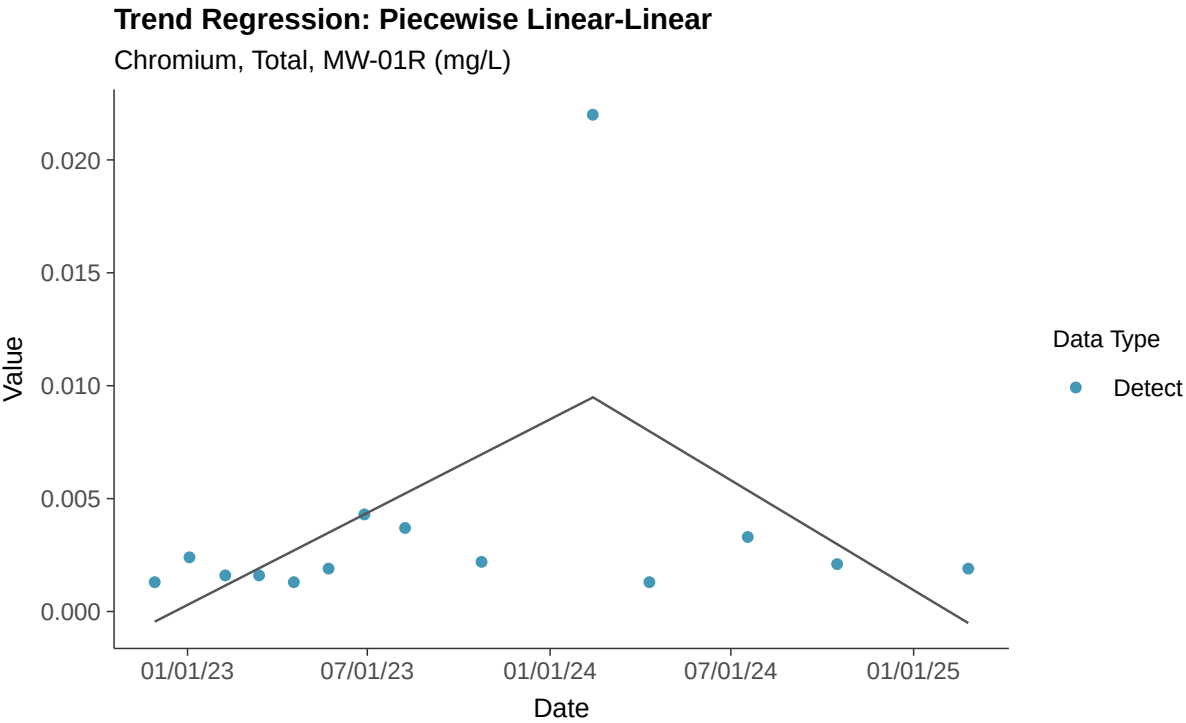
Appendix IV: Chromium, Total, MW-01R

ID: 11_2_4_109





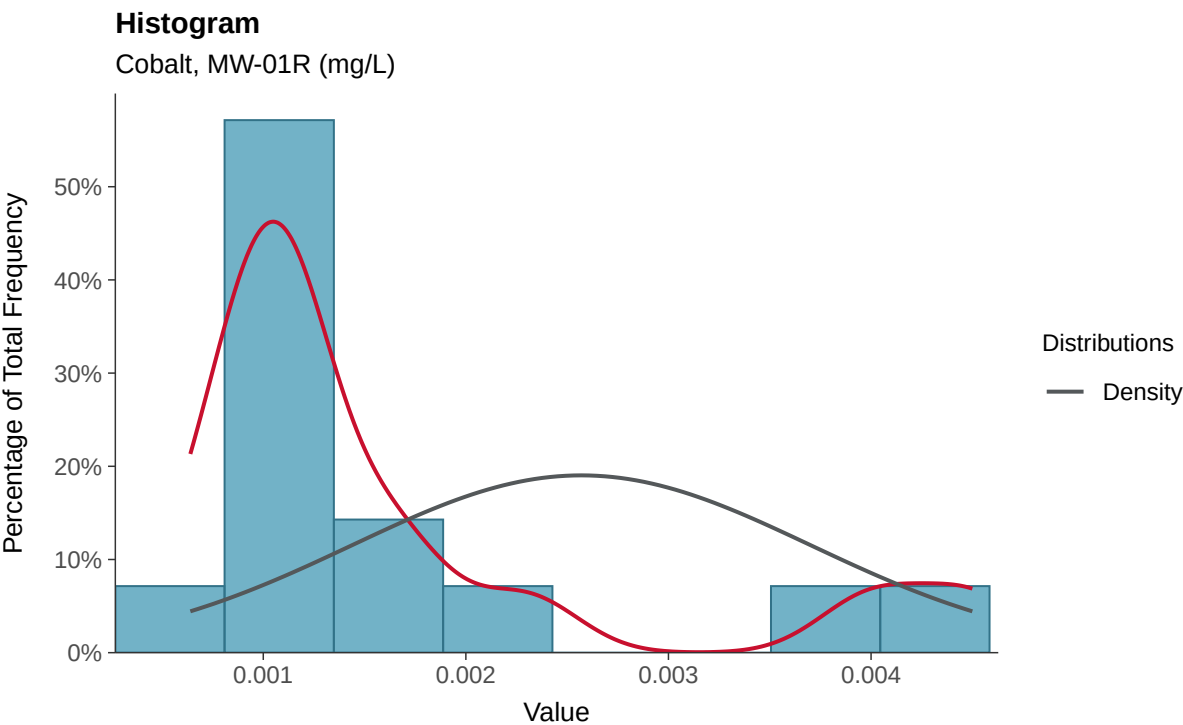
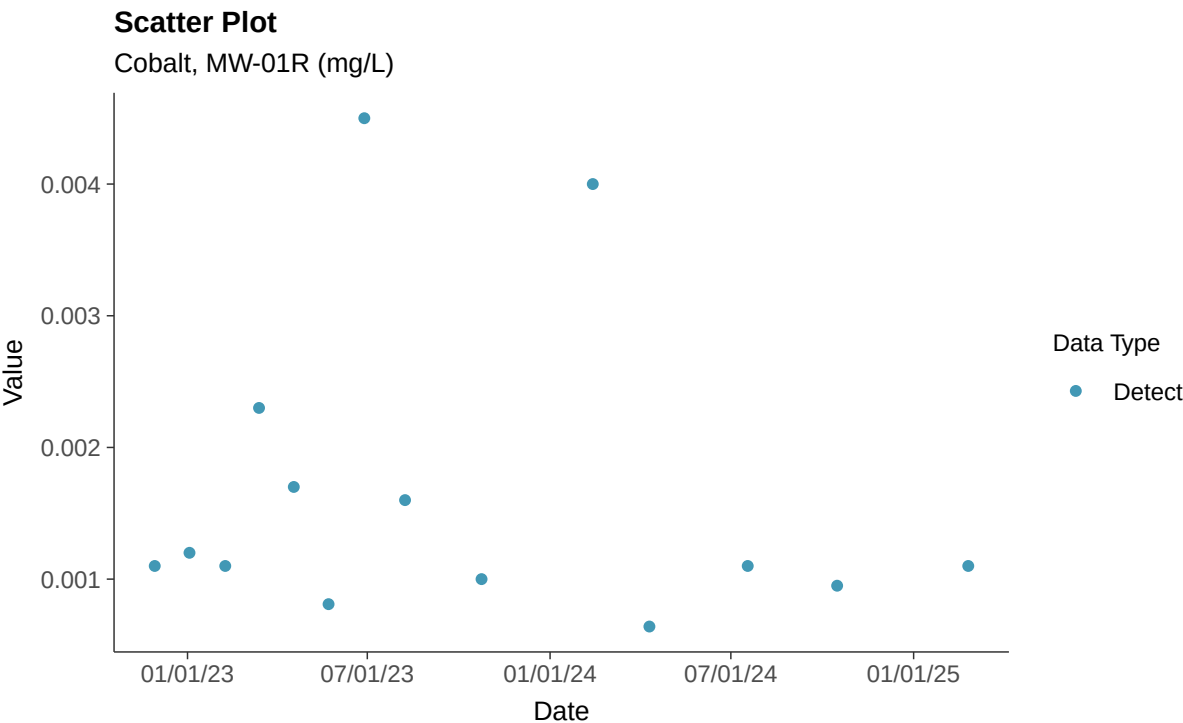


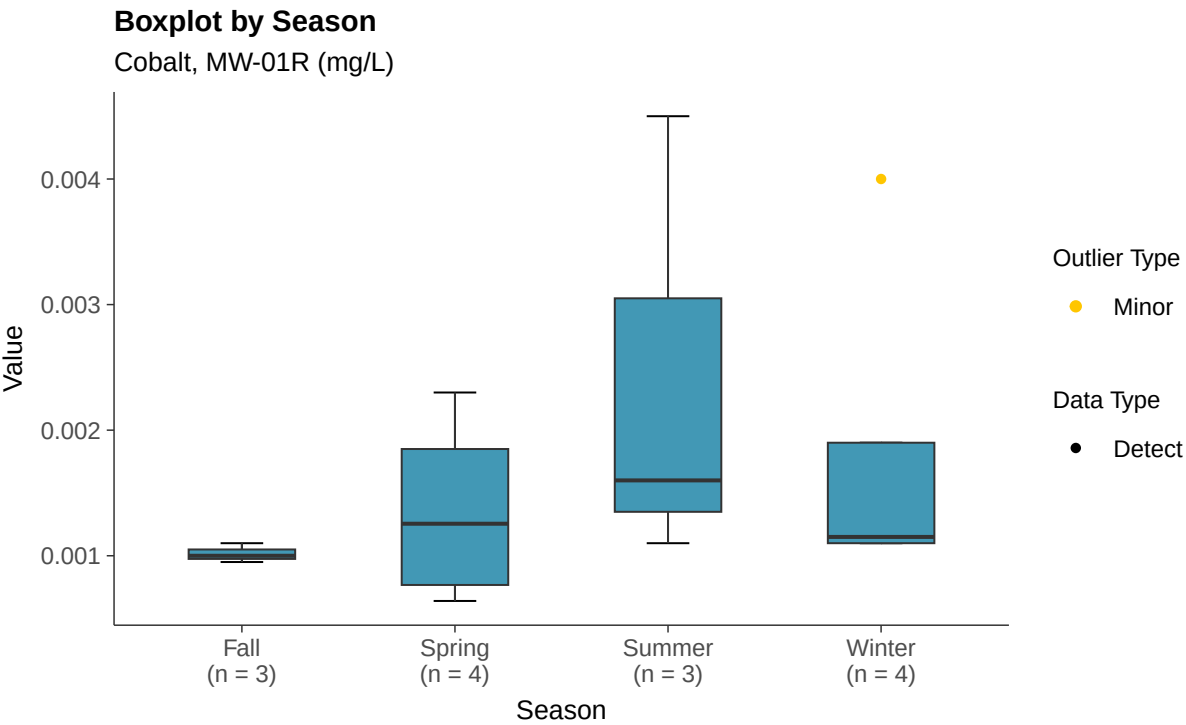
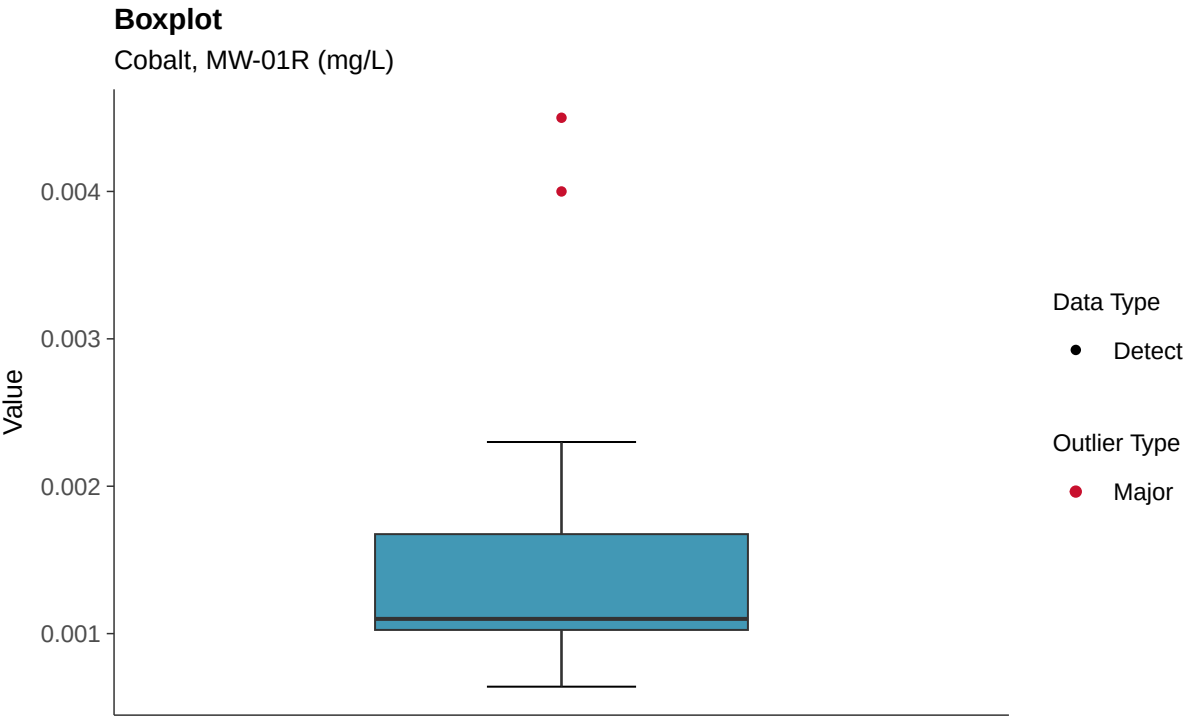


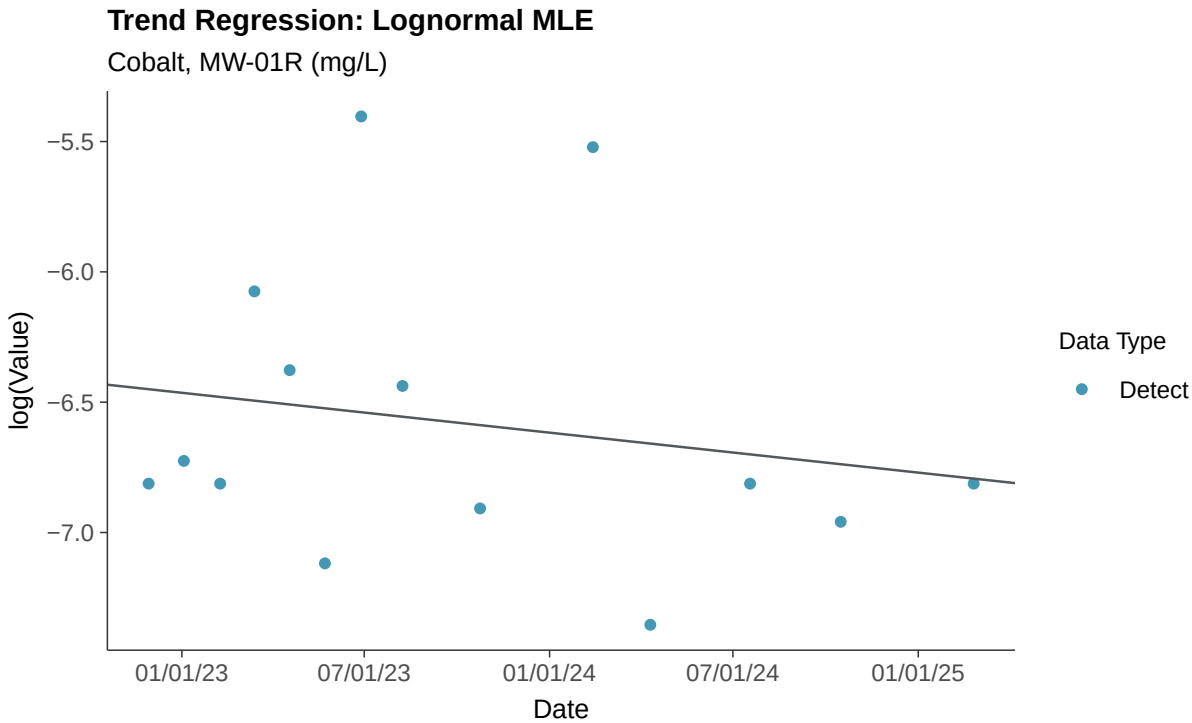
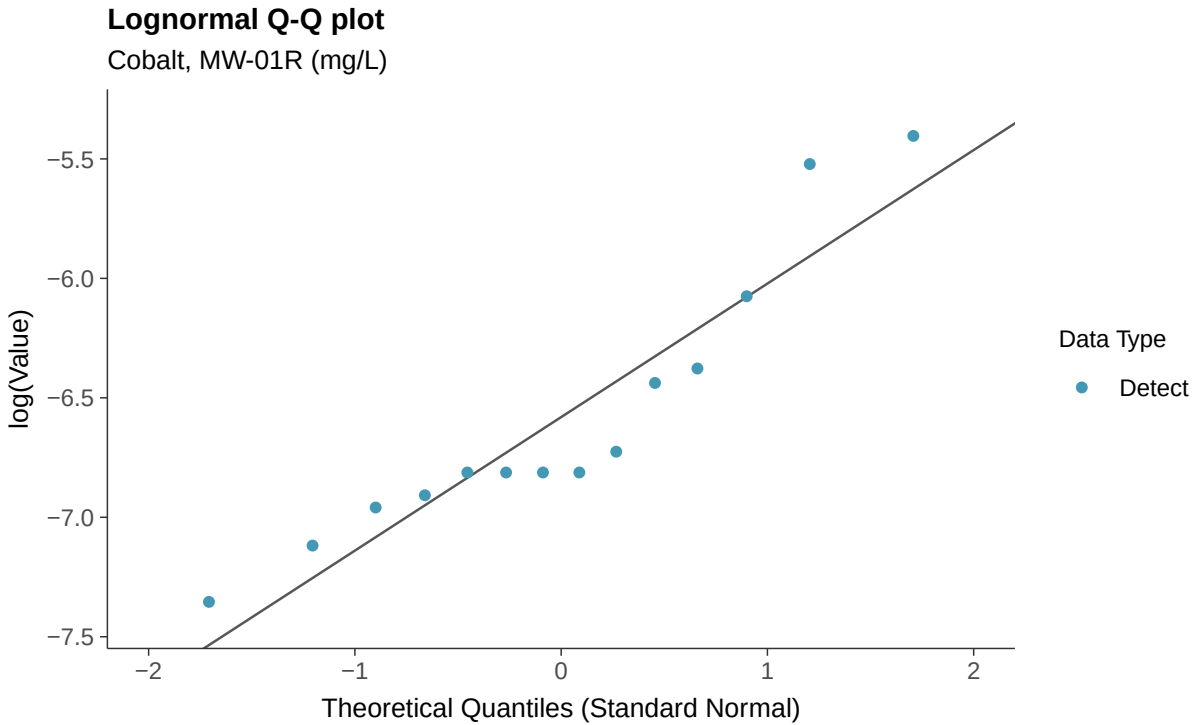


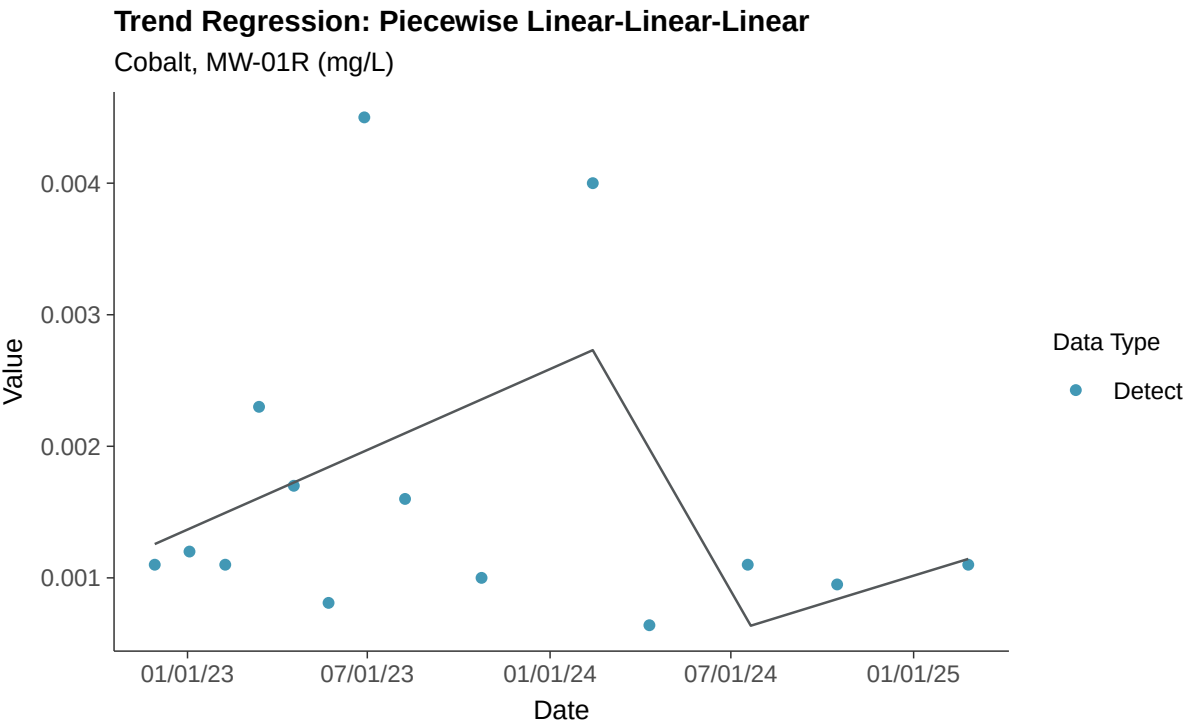
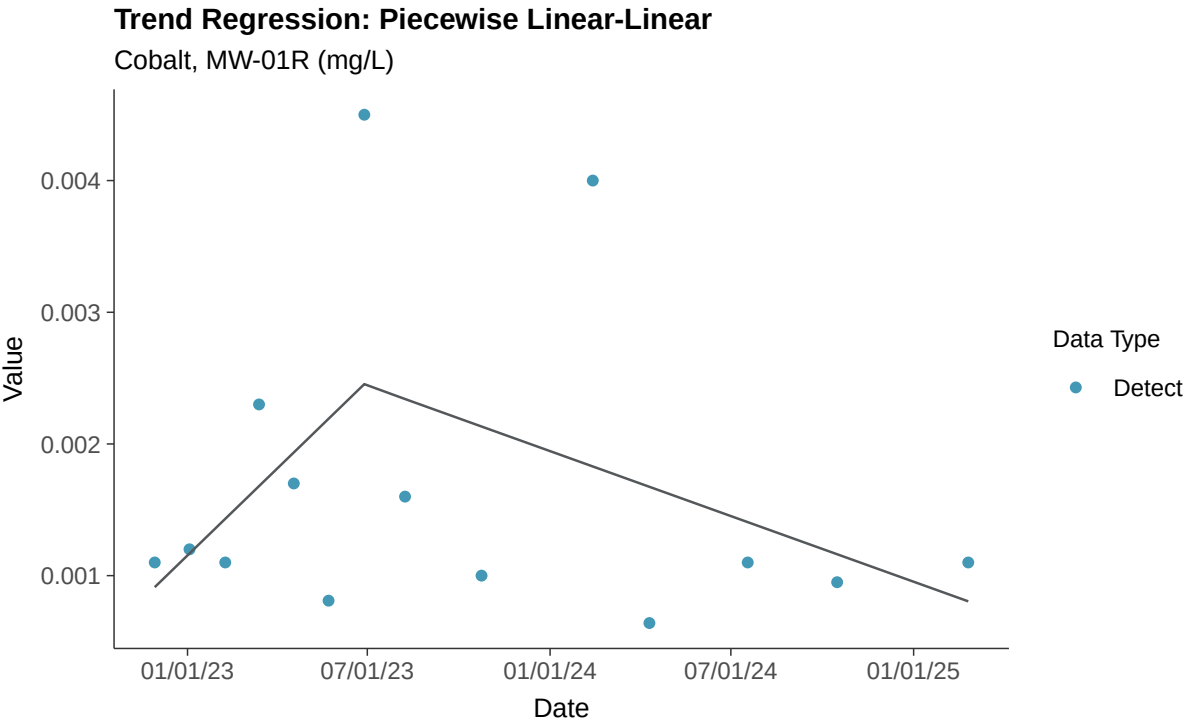
Appendix IV: Cobalt, MW-01R

ID: 11_2_4_110





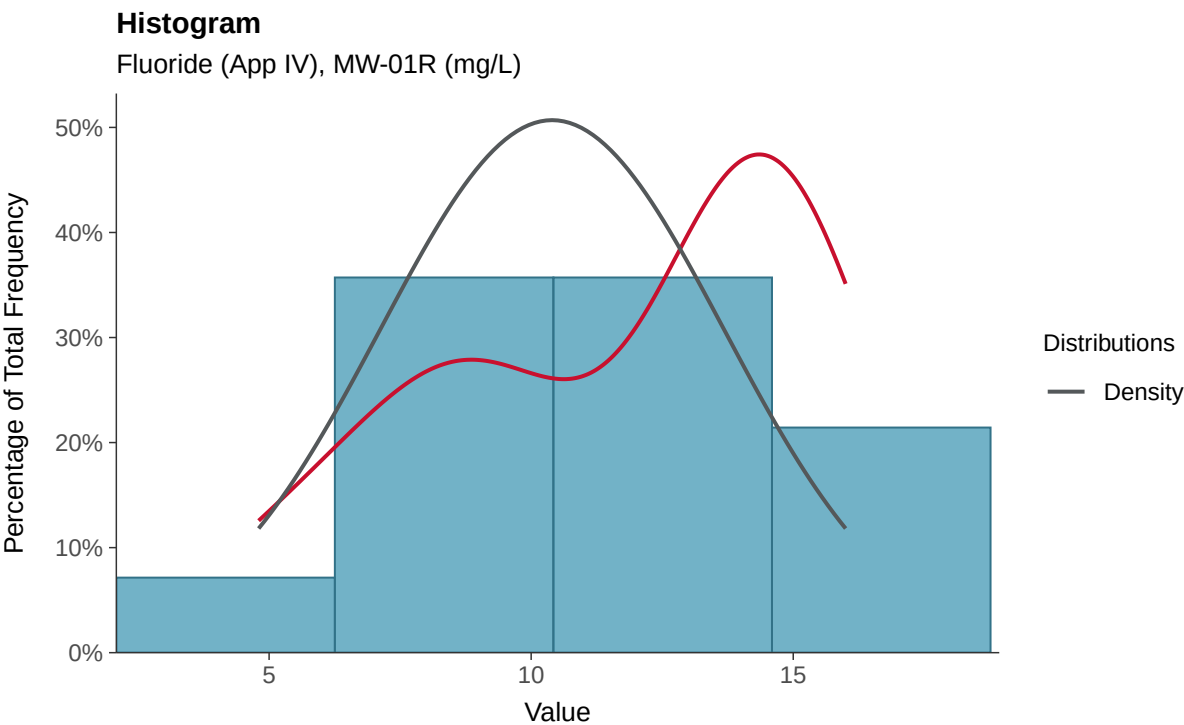
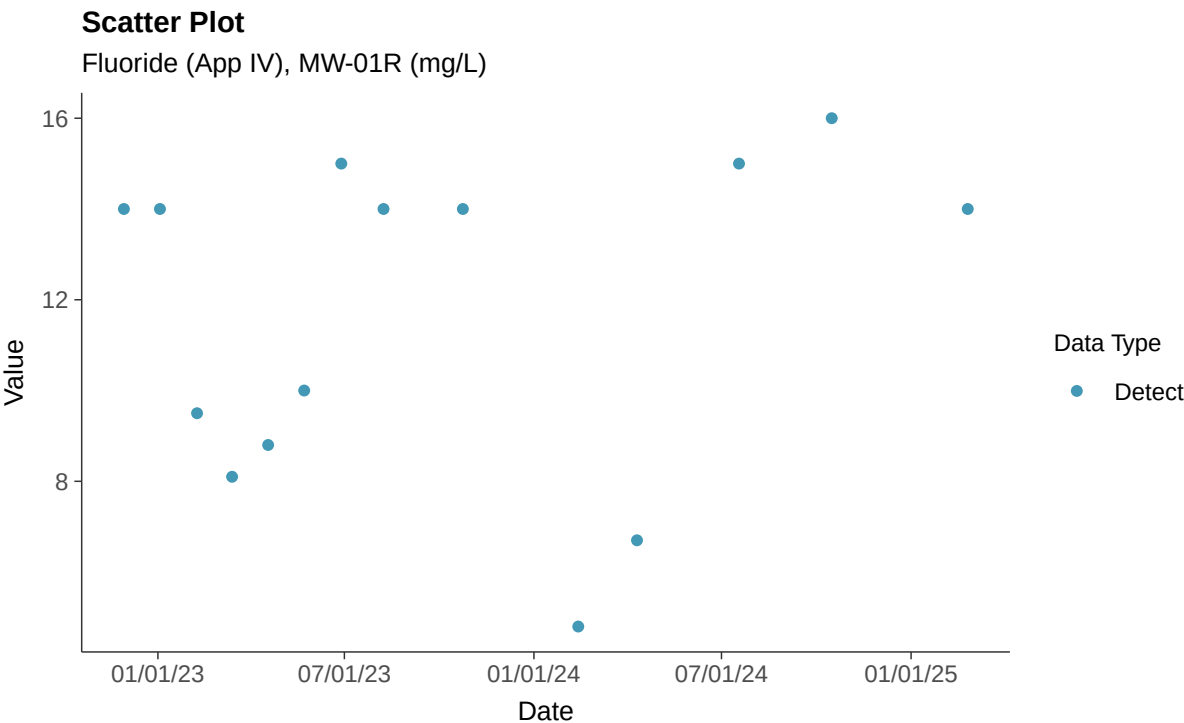


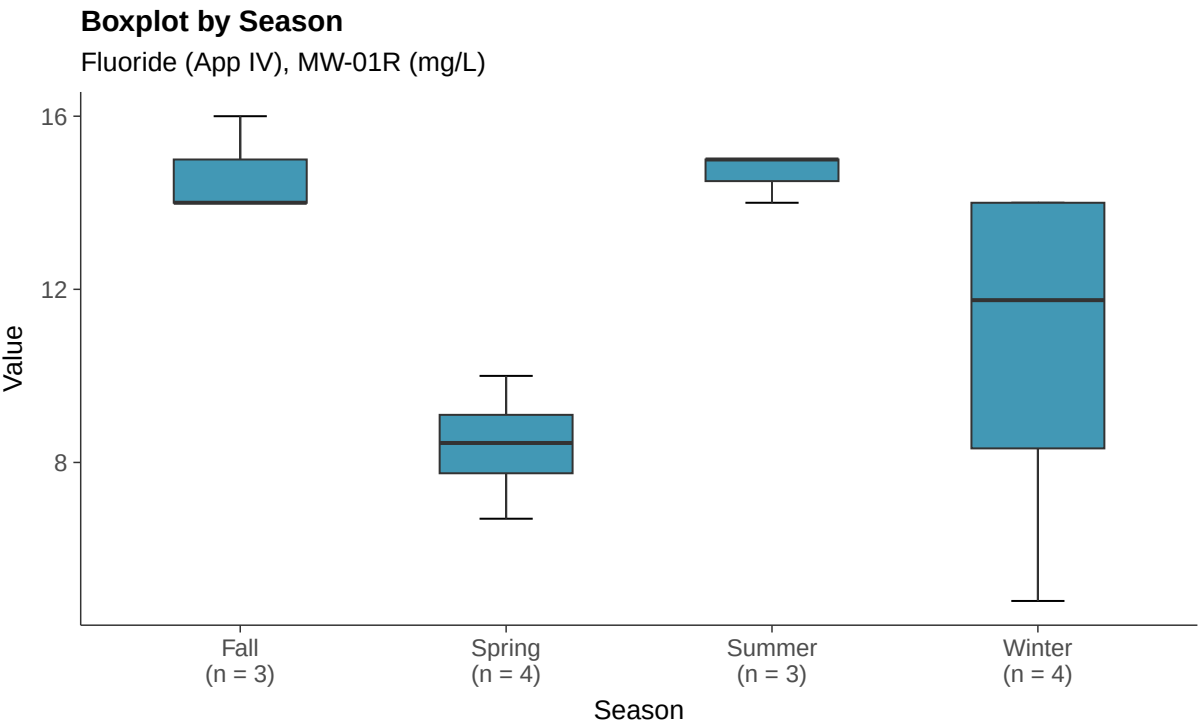
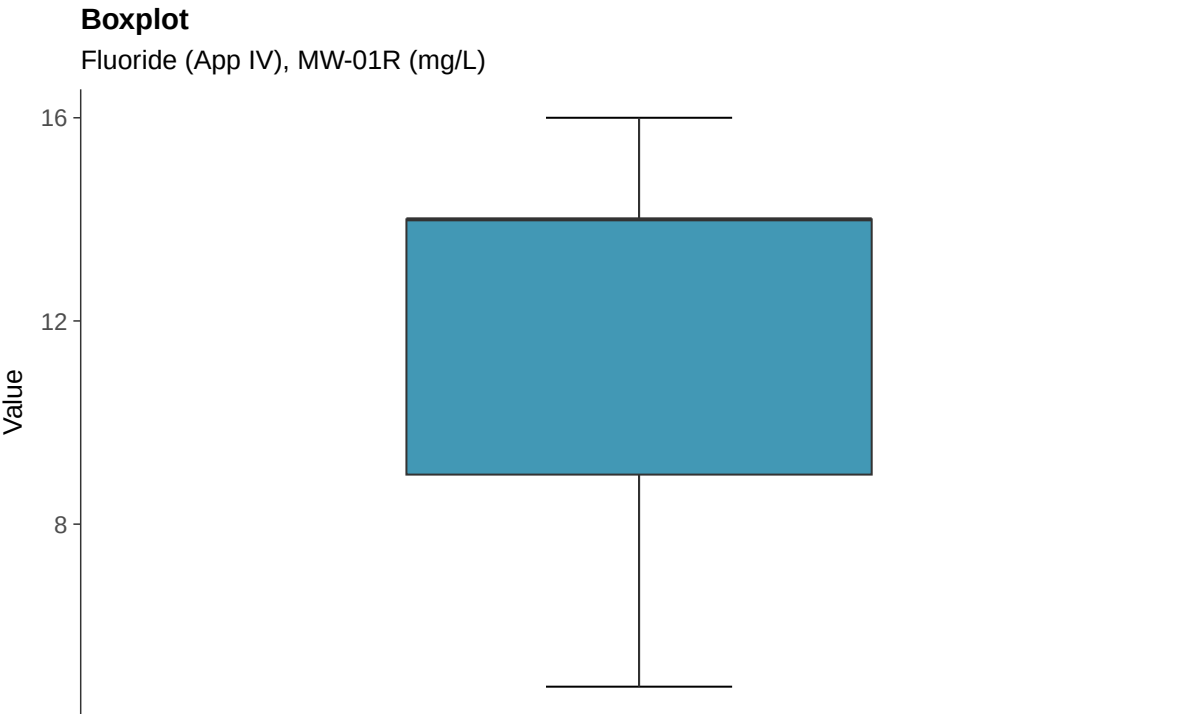


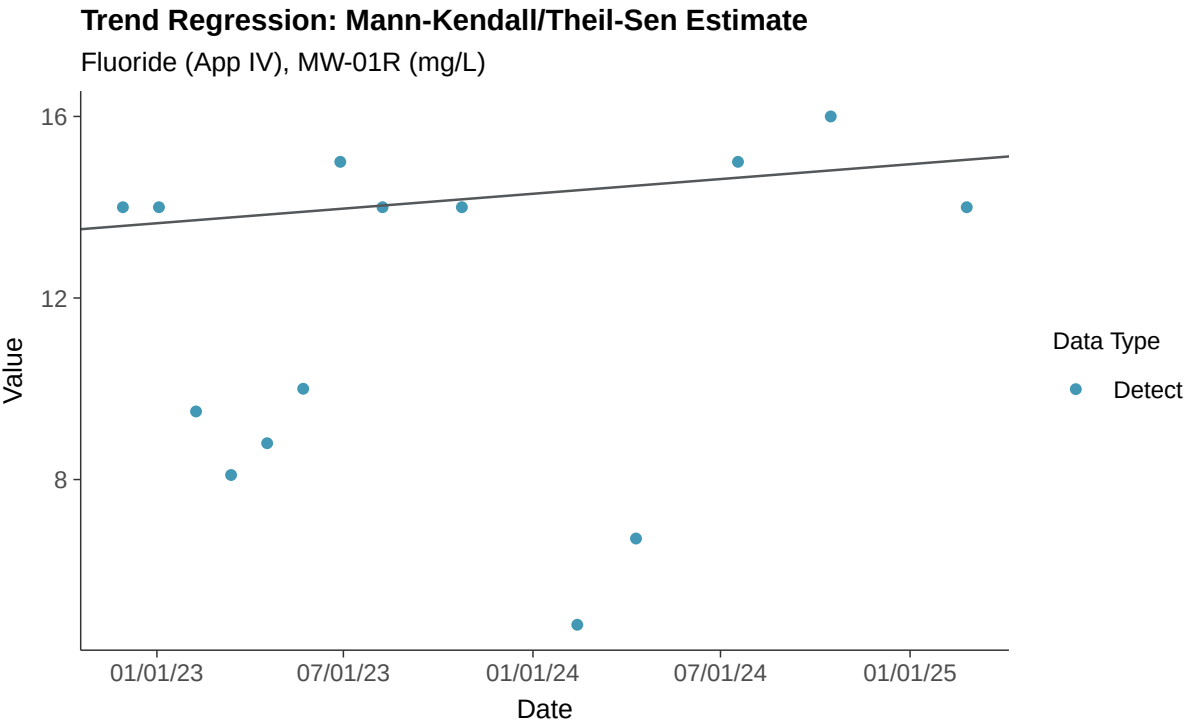
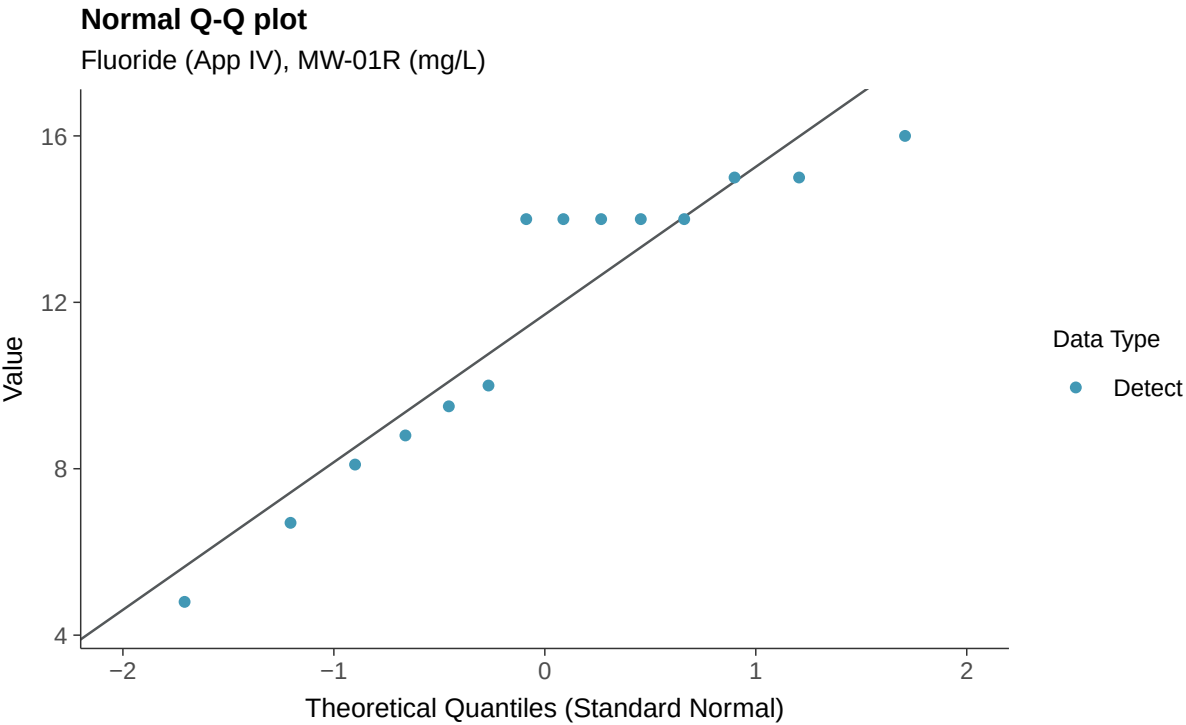


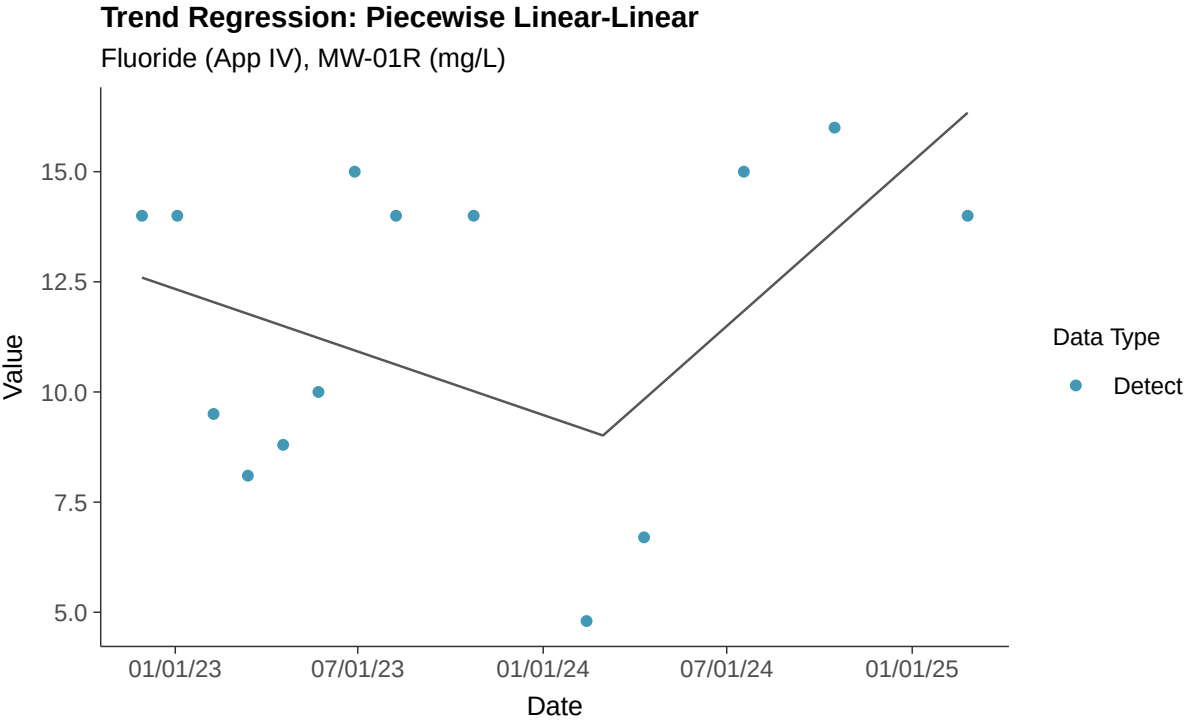
Appendix IV: Fluoride (App IV), MW-01R

ID: 11_2_4_113





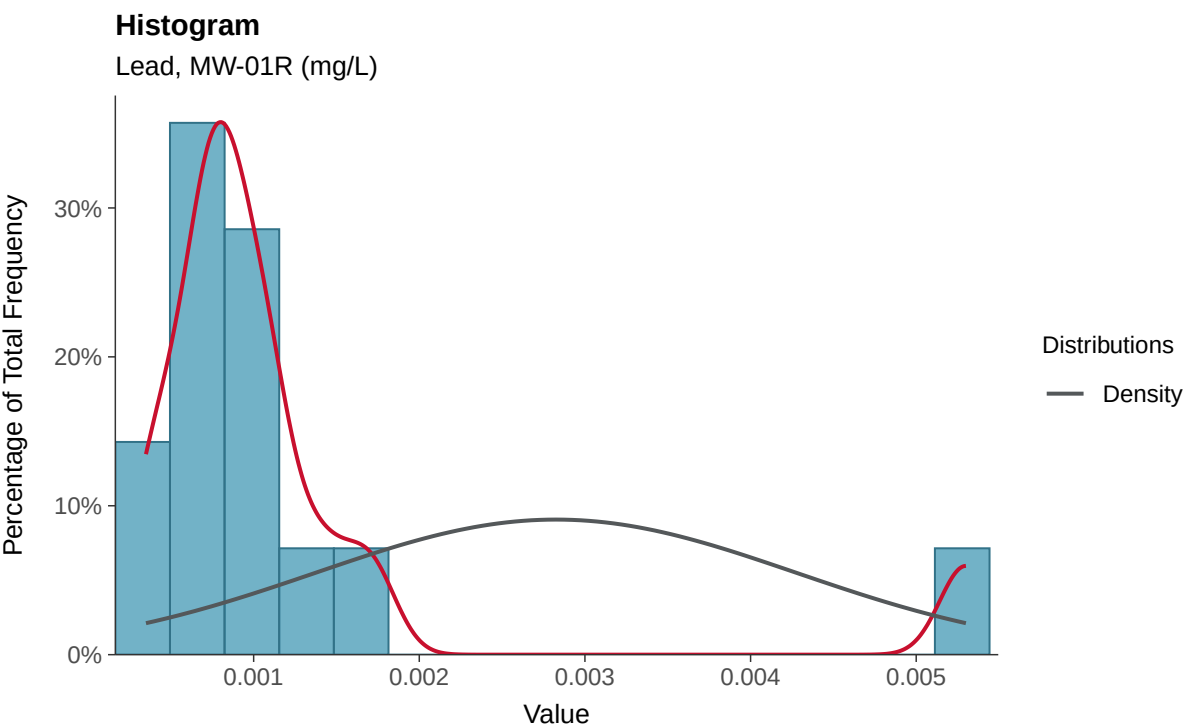
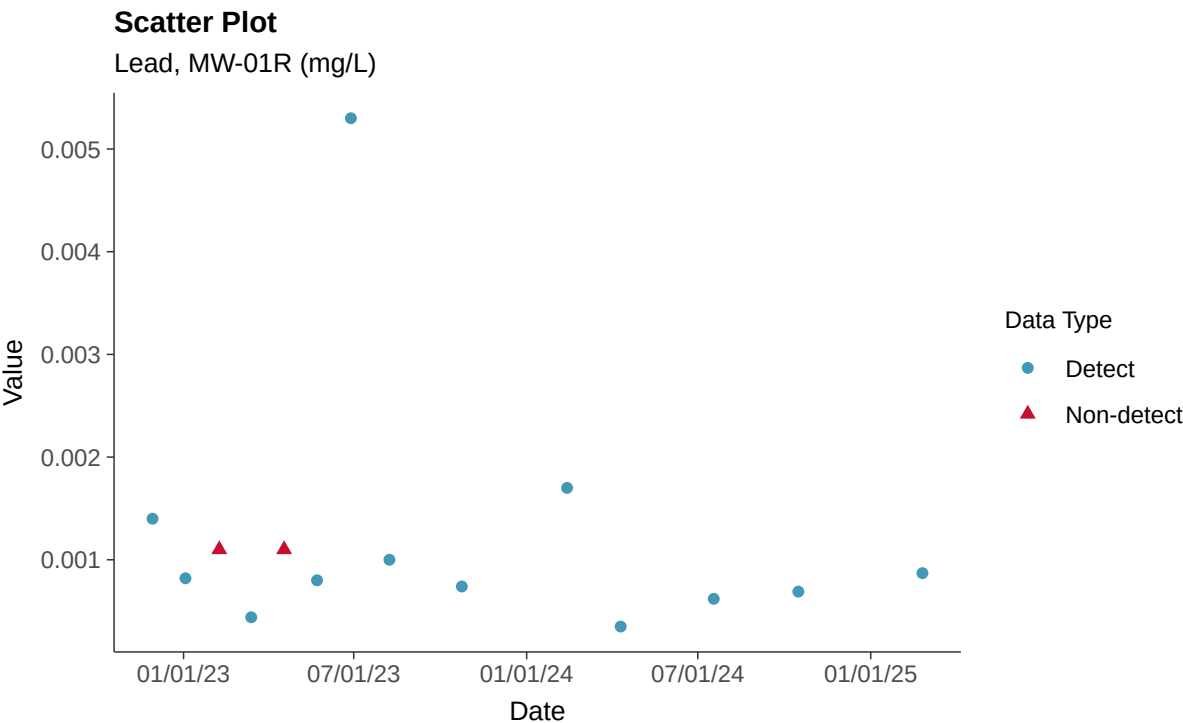


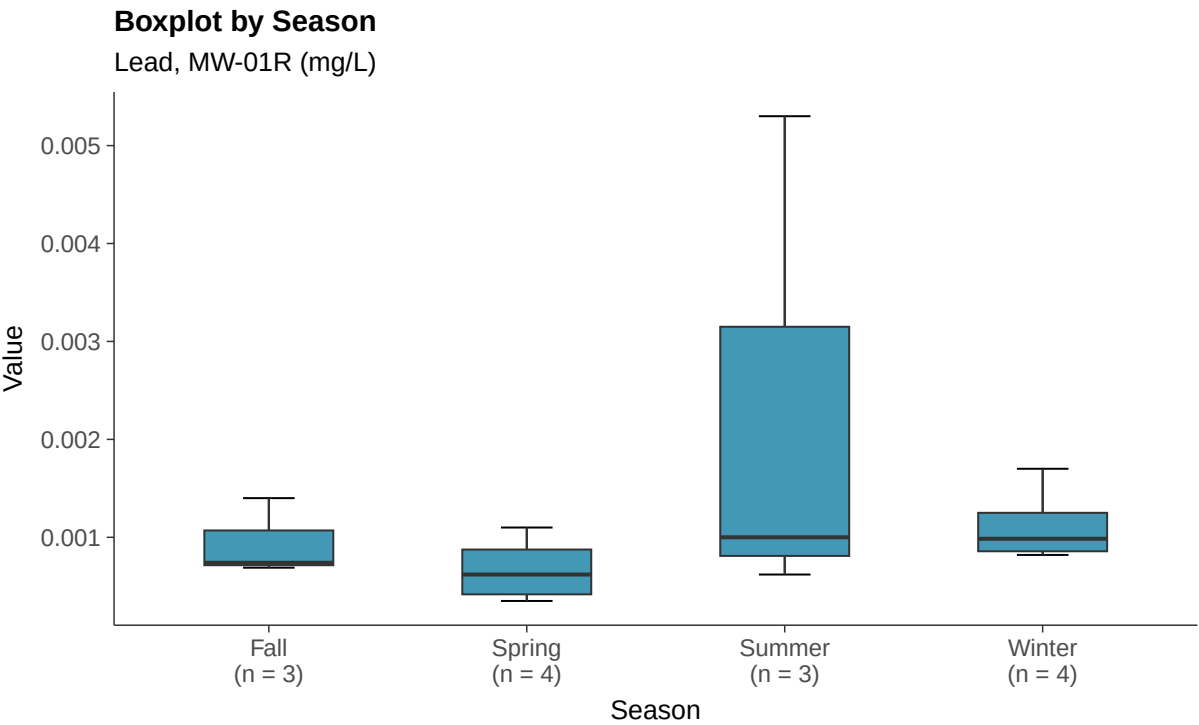
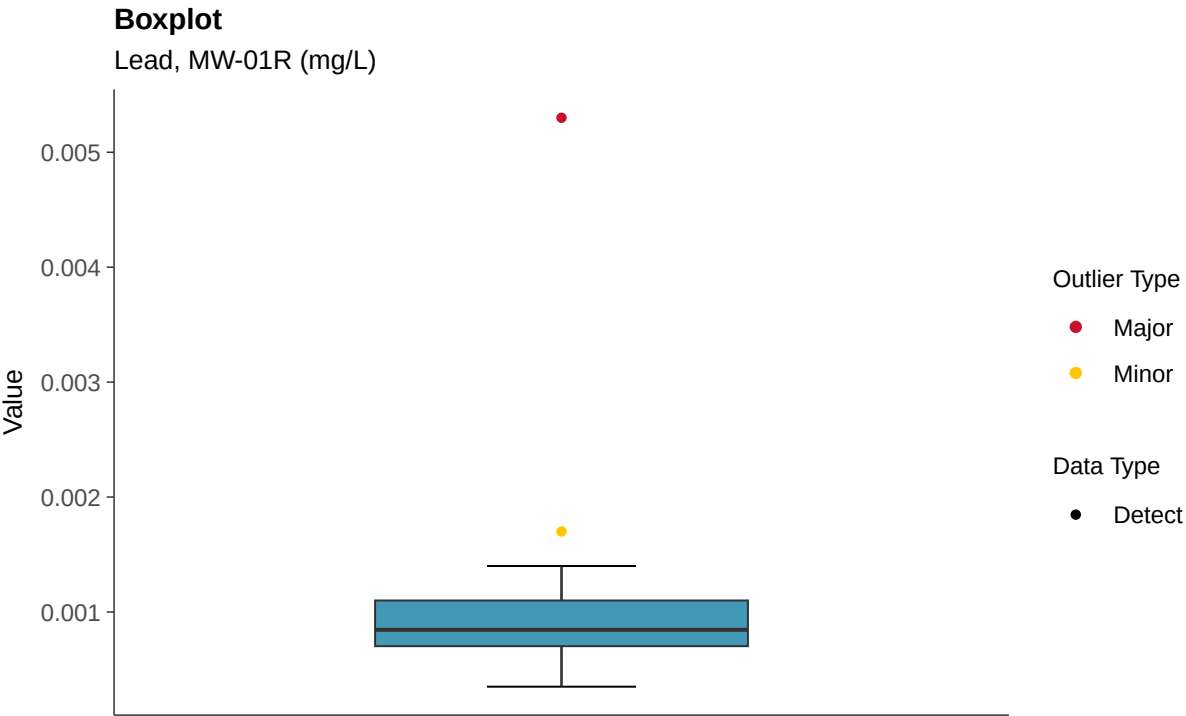




Appendix IV: Lead, MW-01R

ID: 11_2_4_115

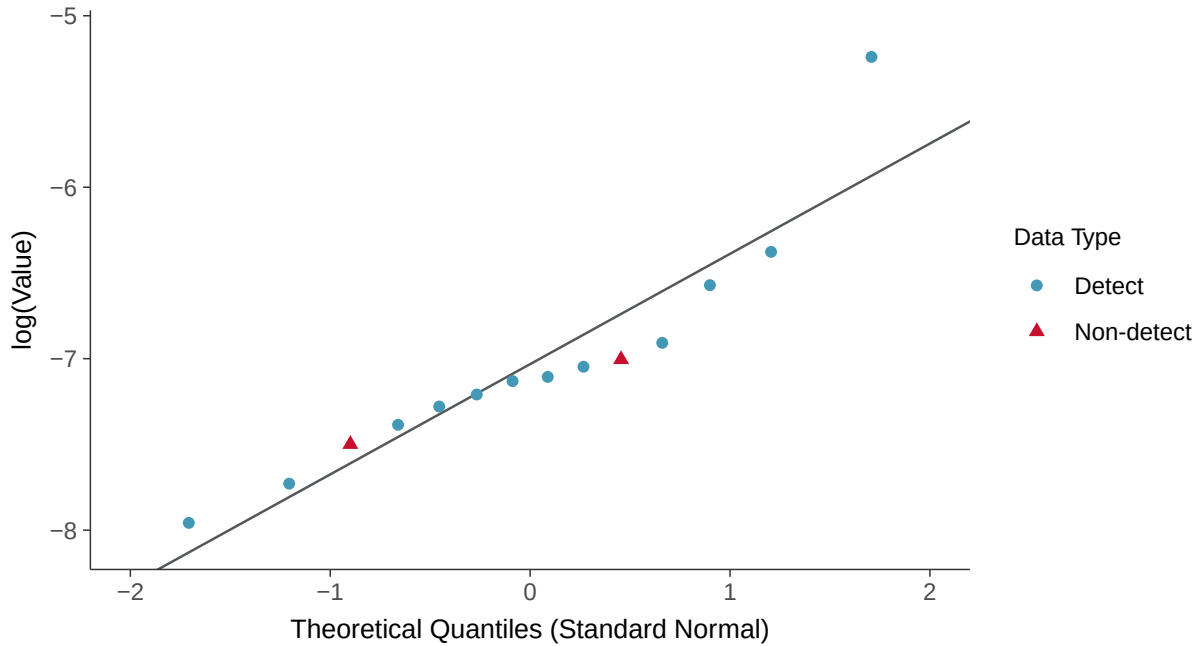






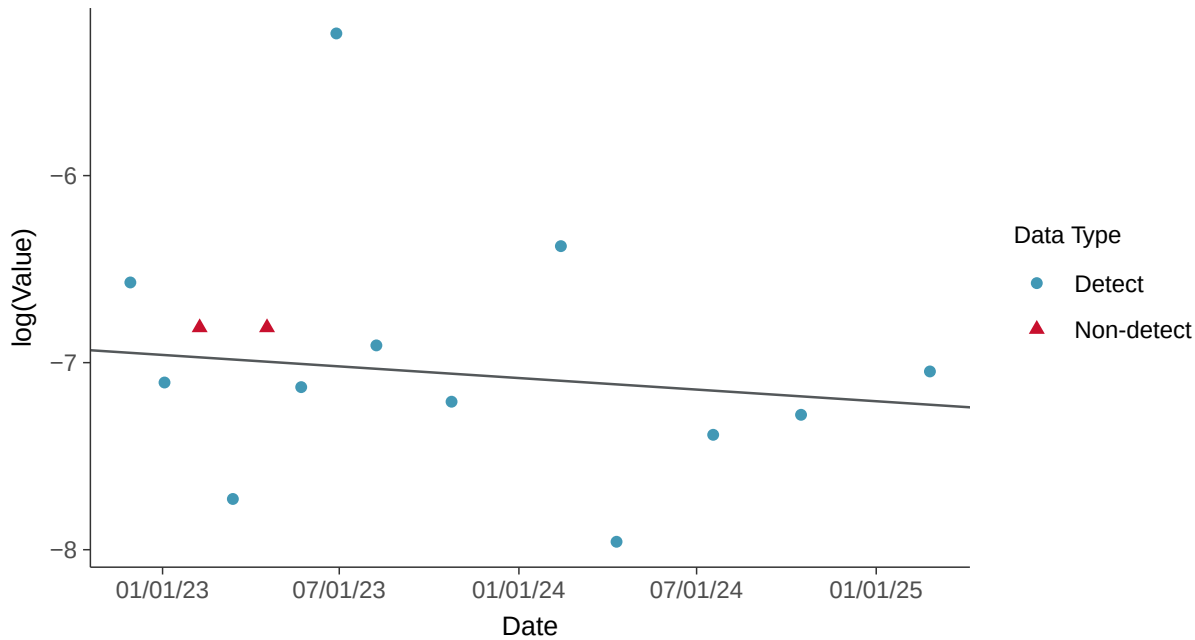
Lognormal Q-Q plot using ROS Imputed Estimates

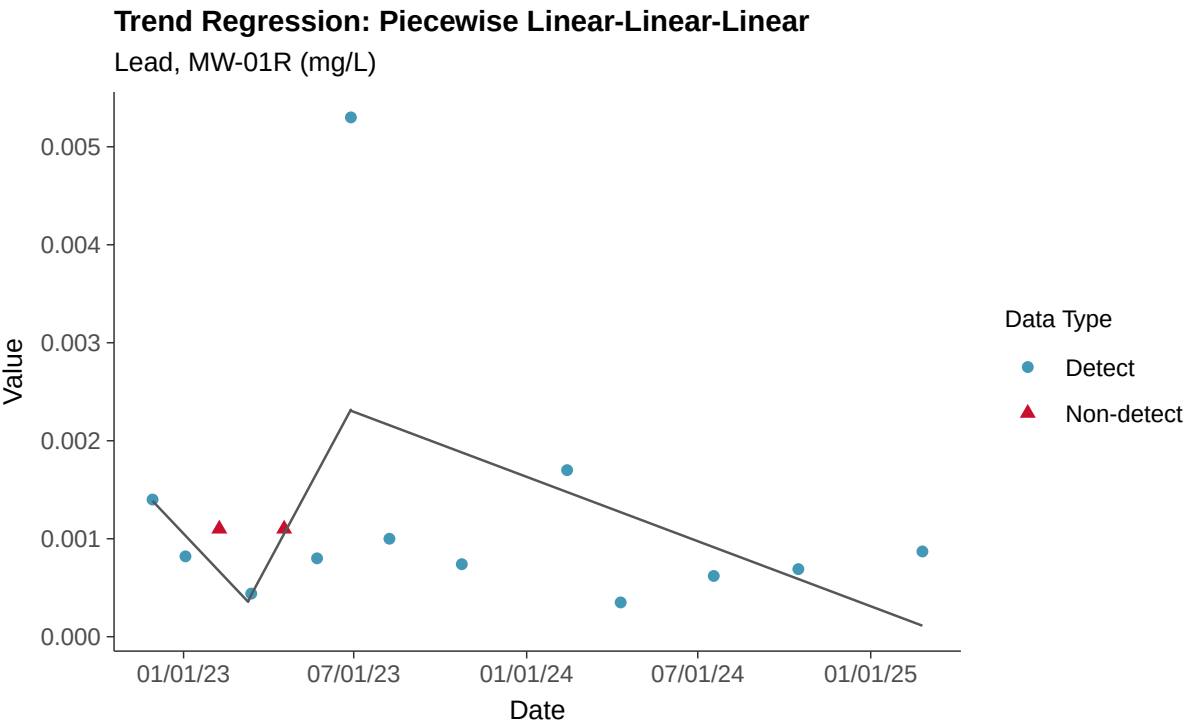
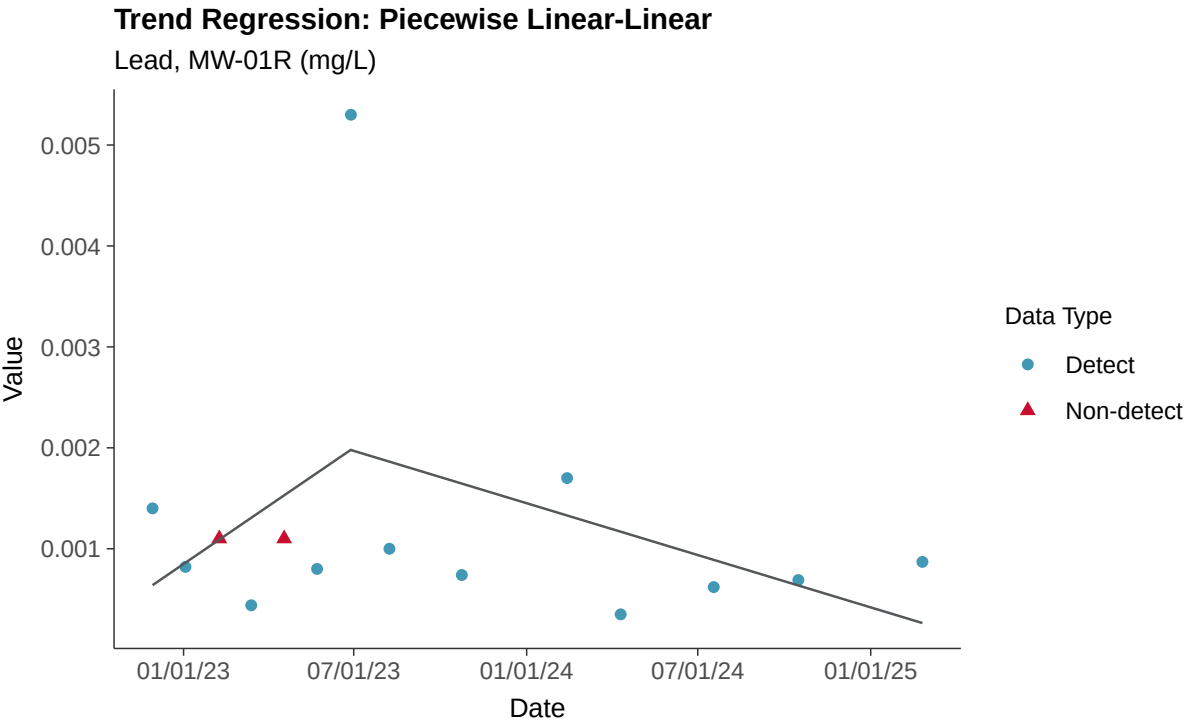
Lead, MW-01R (mg/L)



Trend Regression: Lognormal MLE

Lead, MW-01R (mg/L)

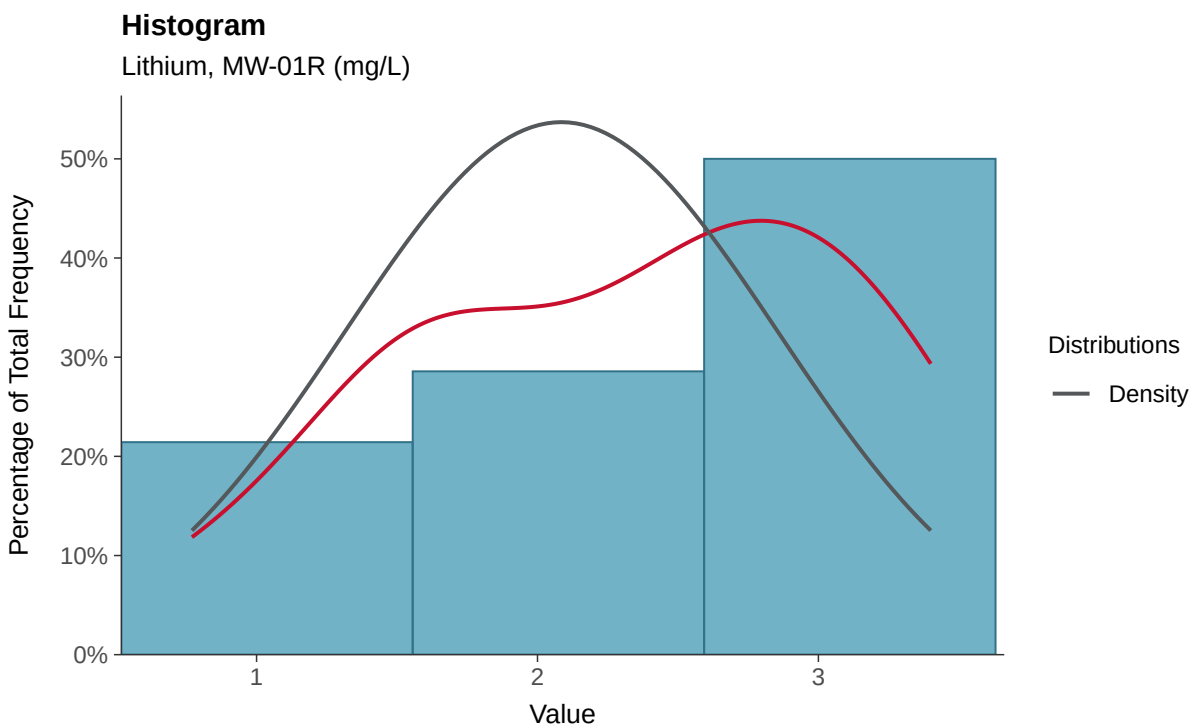
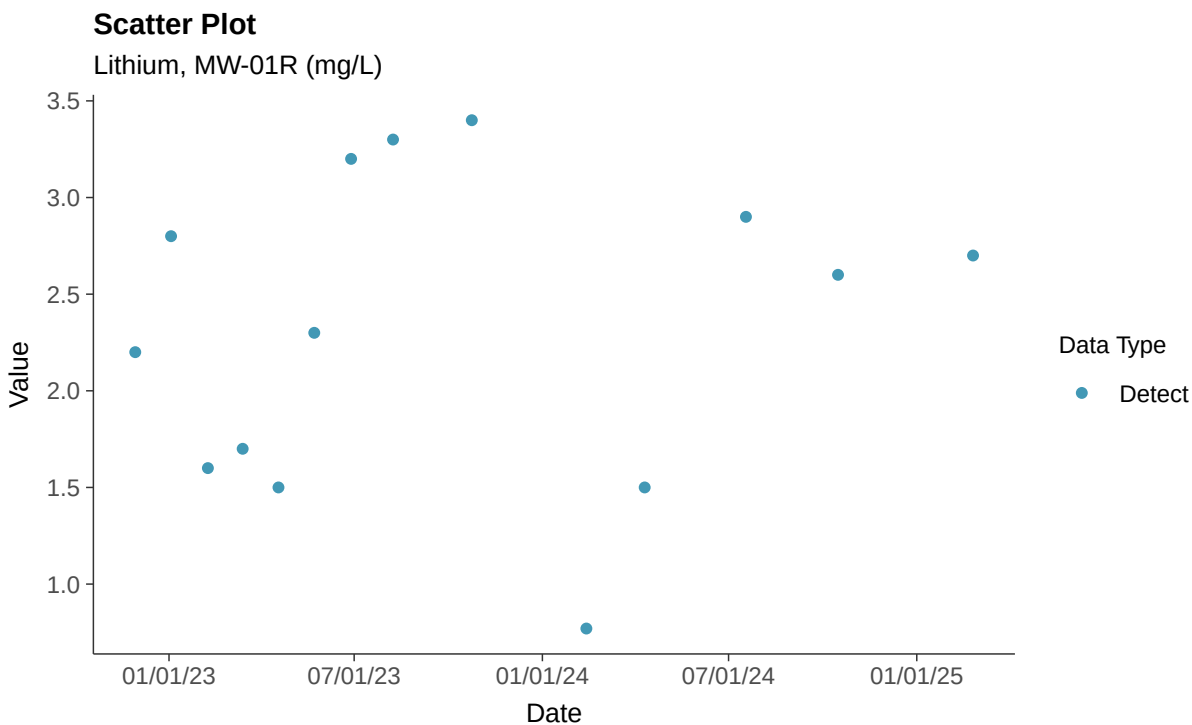


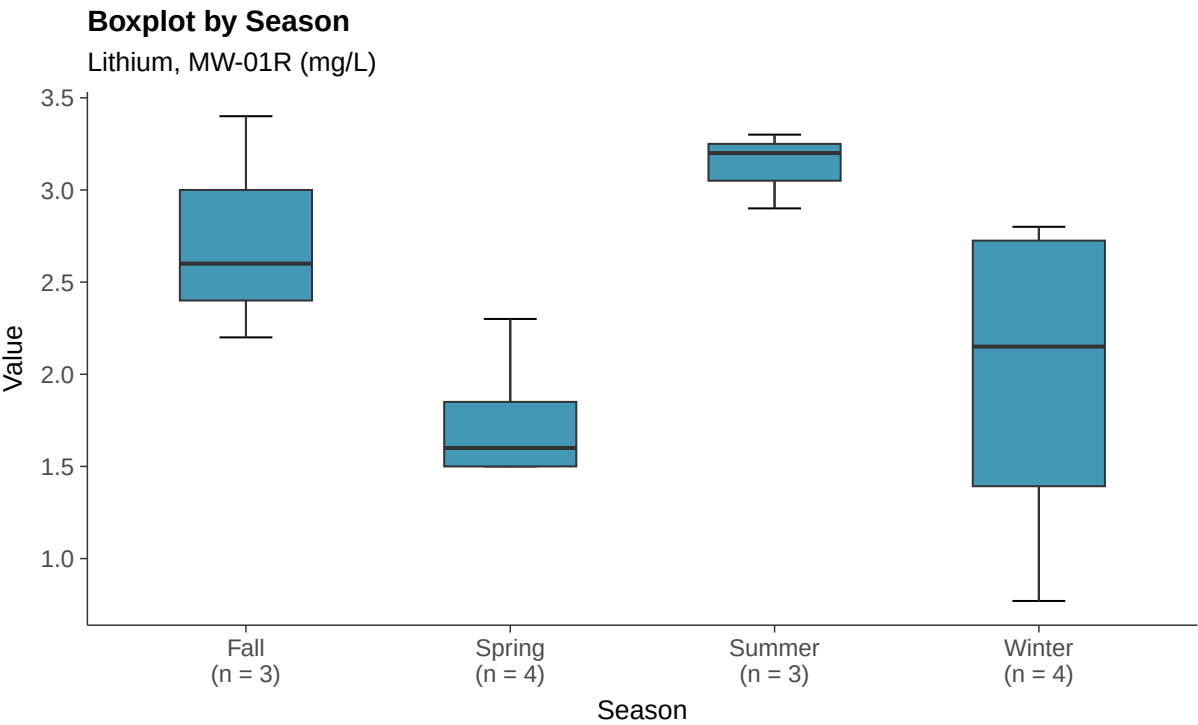
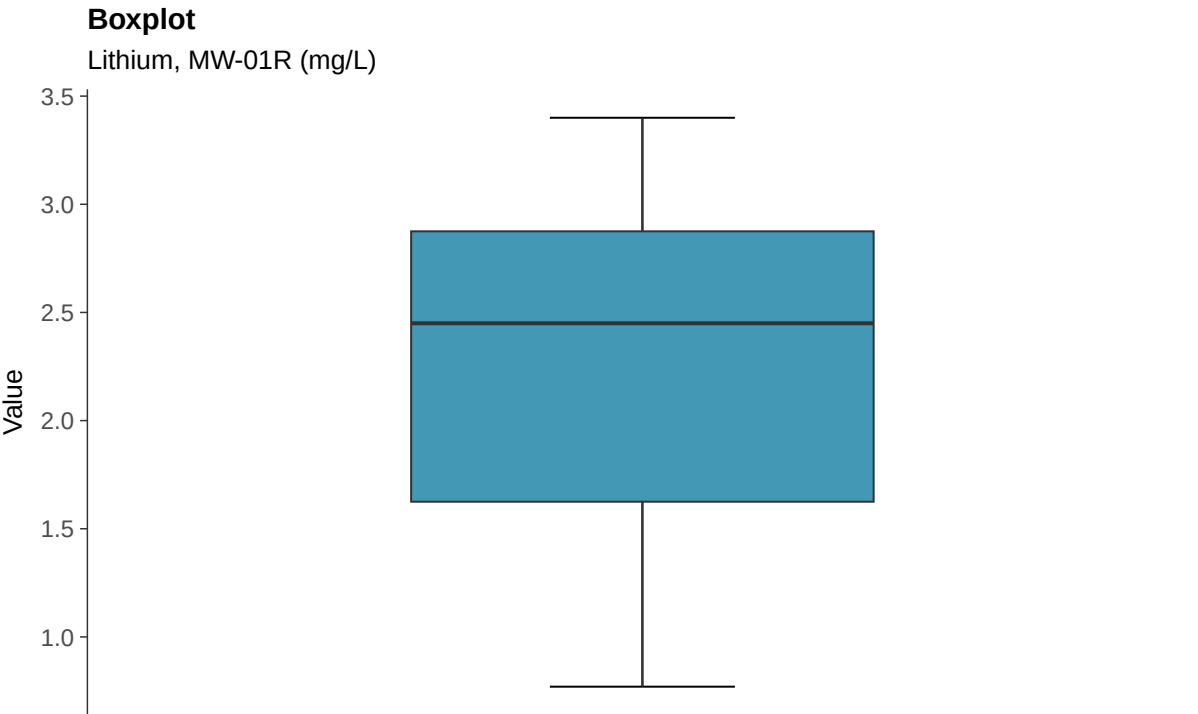




Appendix IV: Lithium, MW-01R

ID: 11_2_4_116

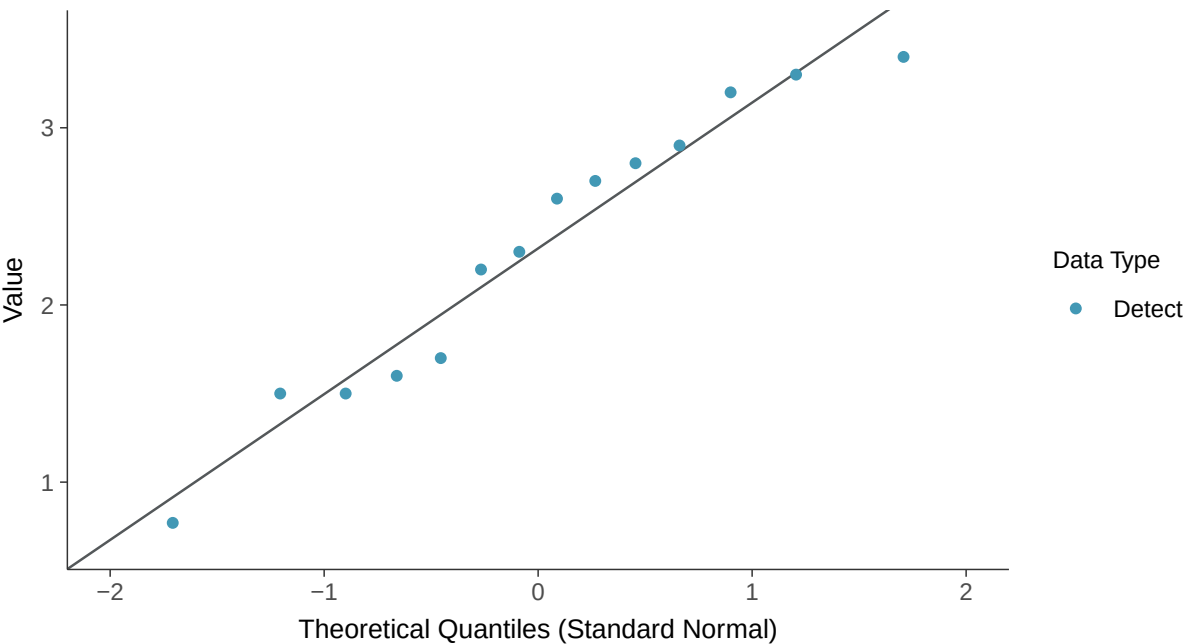






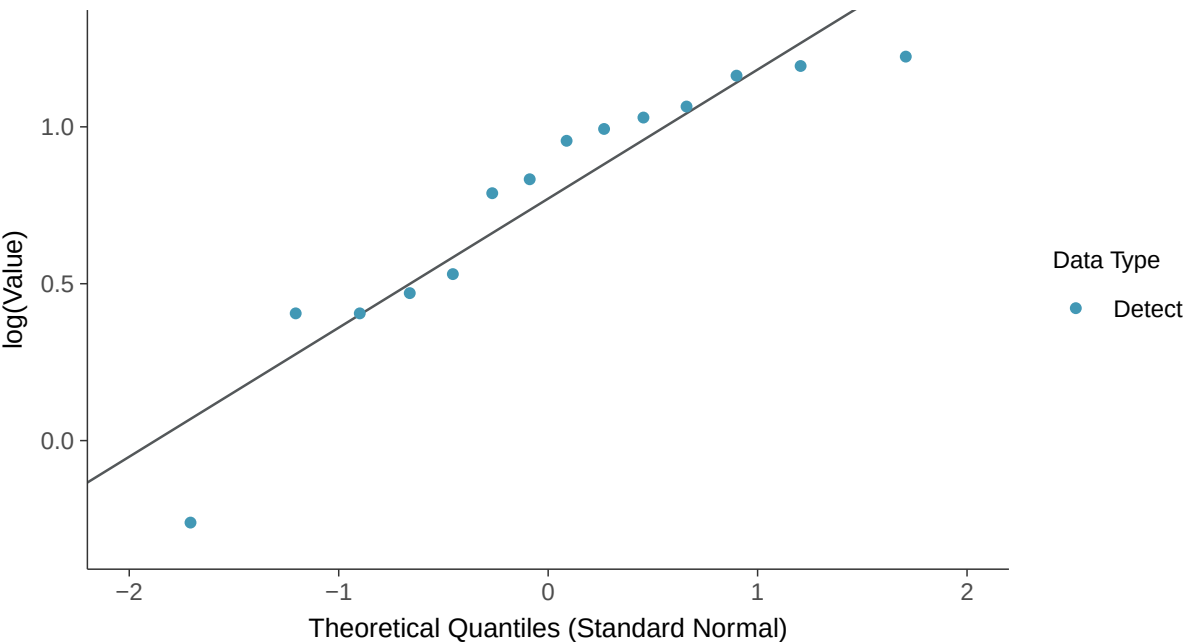
Normal Q-Q plot

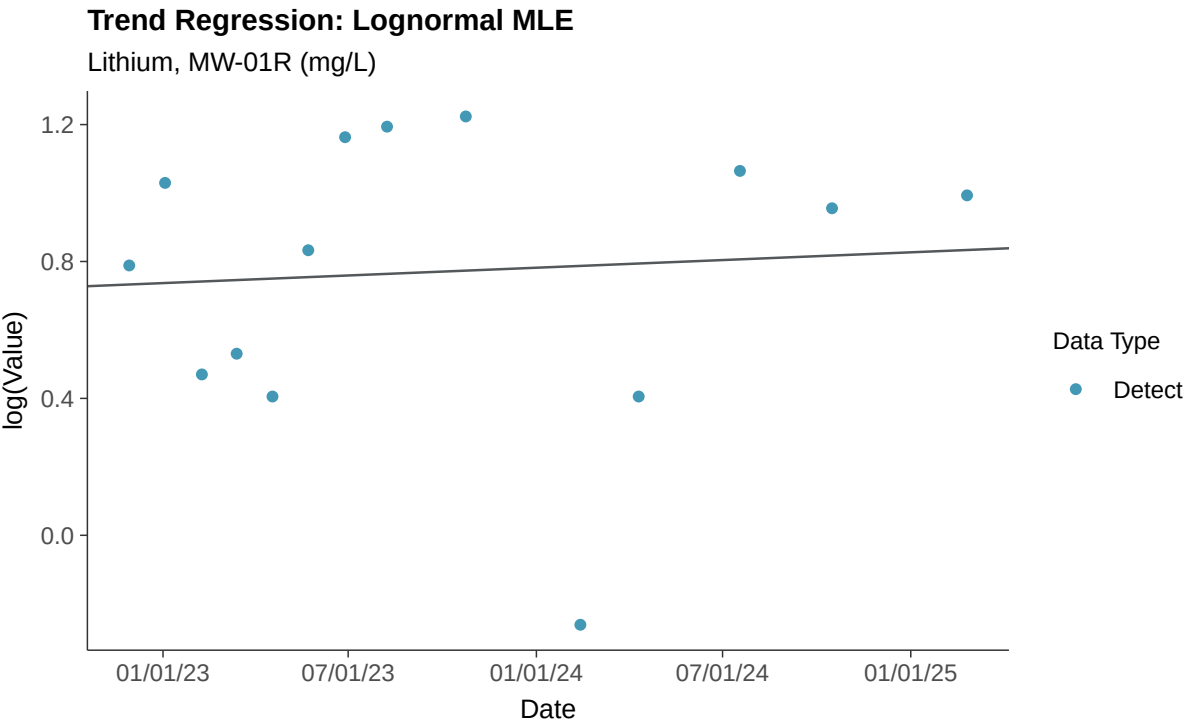
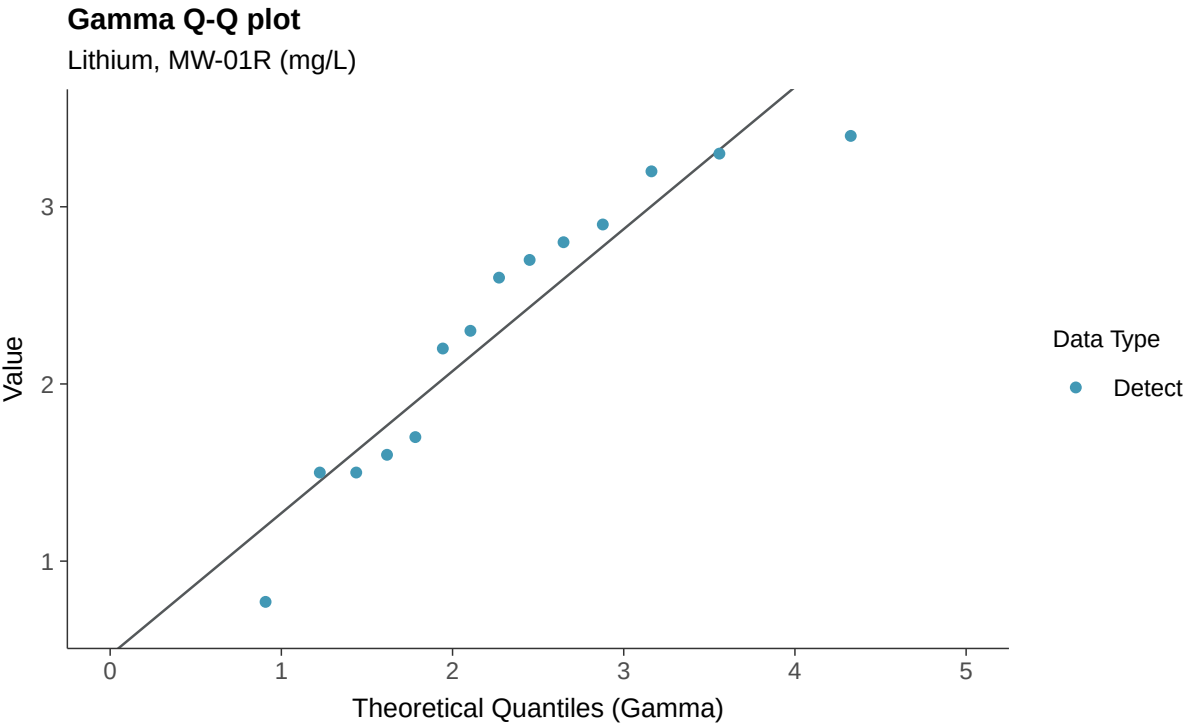
Lithium, MW-01R (mg/L)

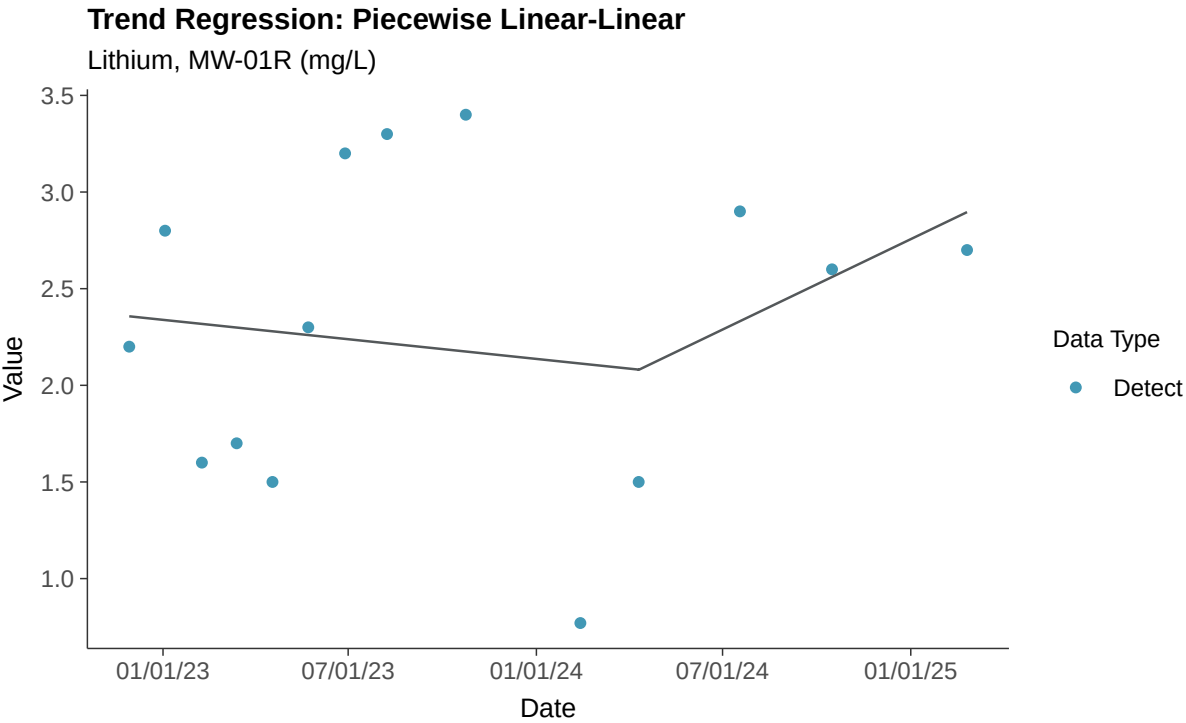


Lognormal Q-Q plot

Lithium, MW-01R (mg/L)



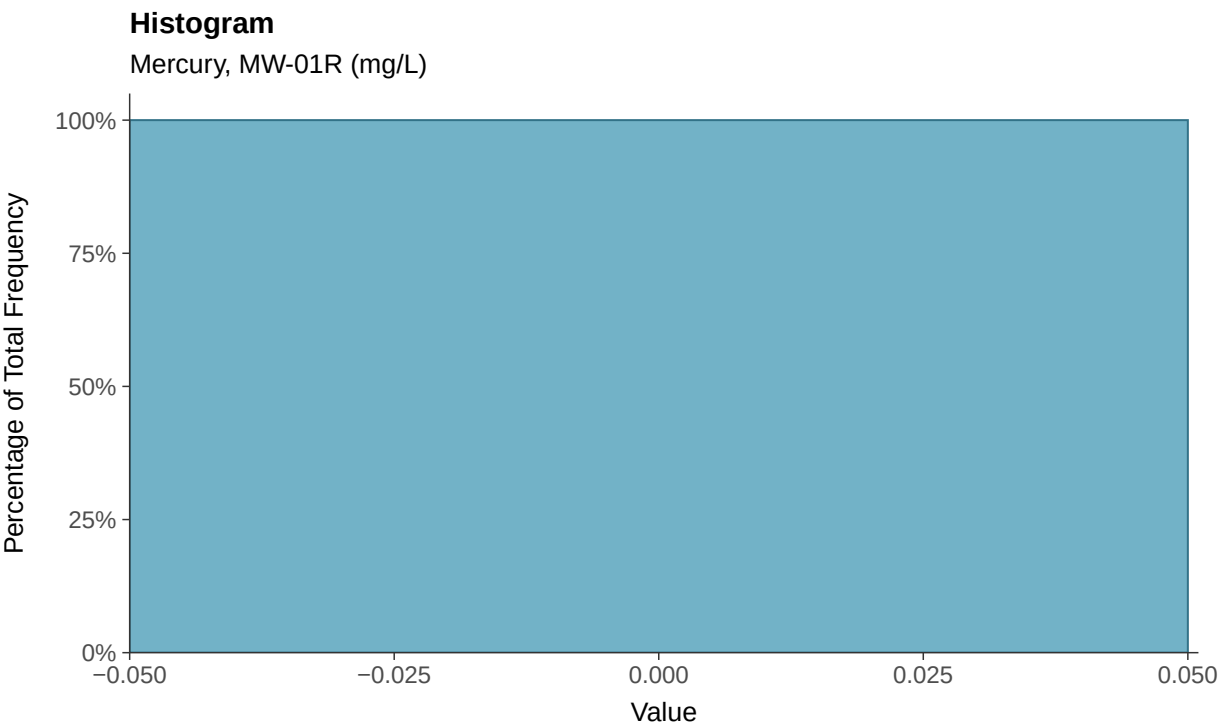
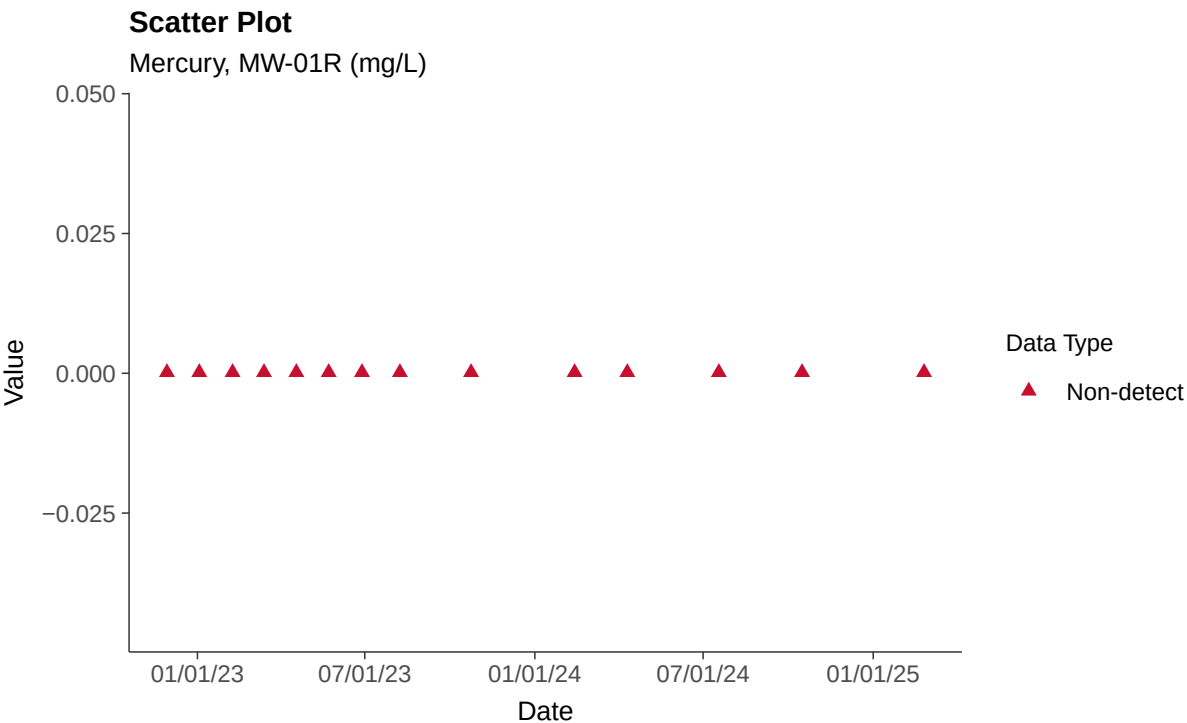


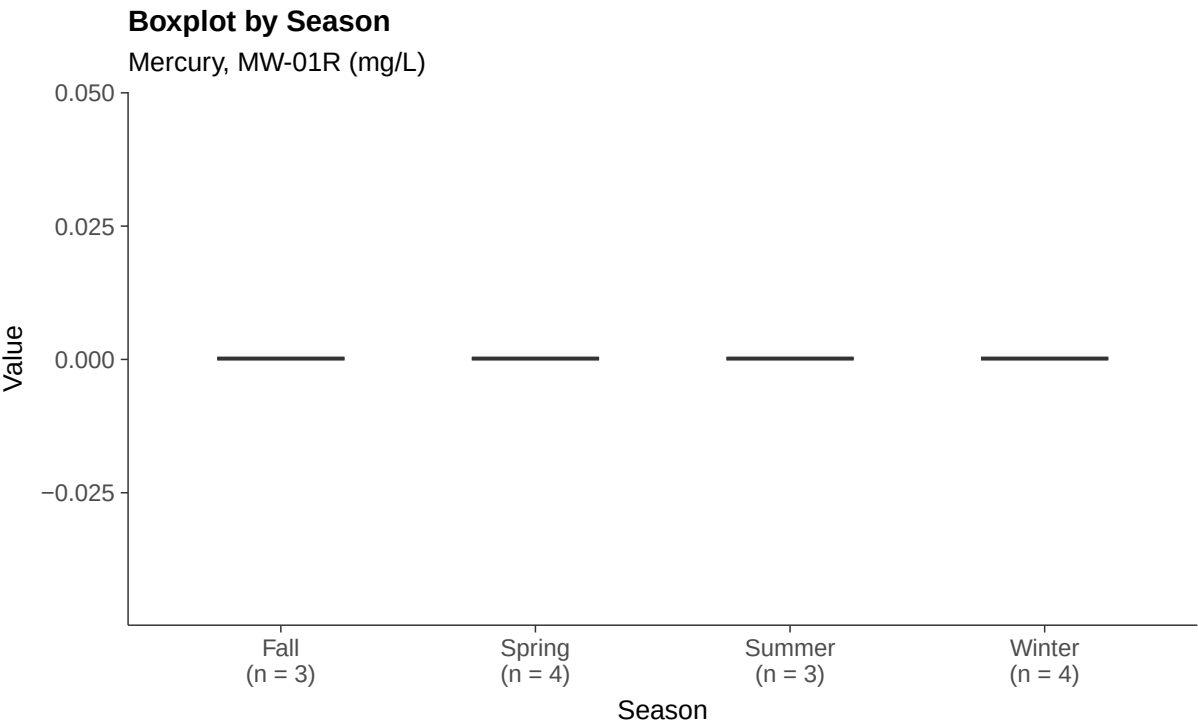
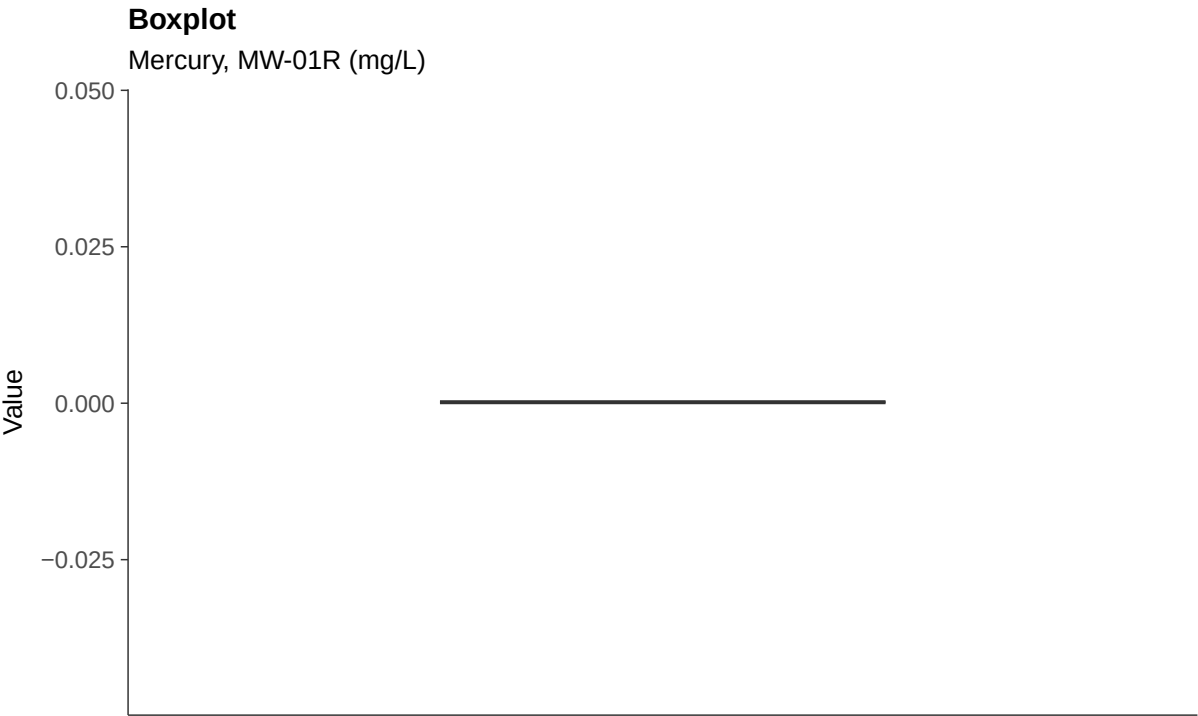




Appendix IV: Mercury, MW-01R

ID: 11_2_4_117

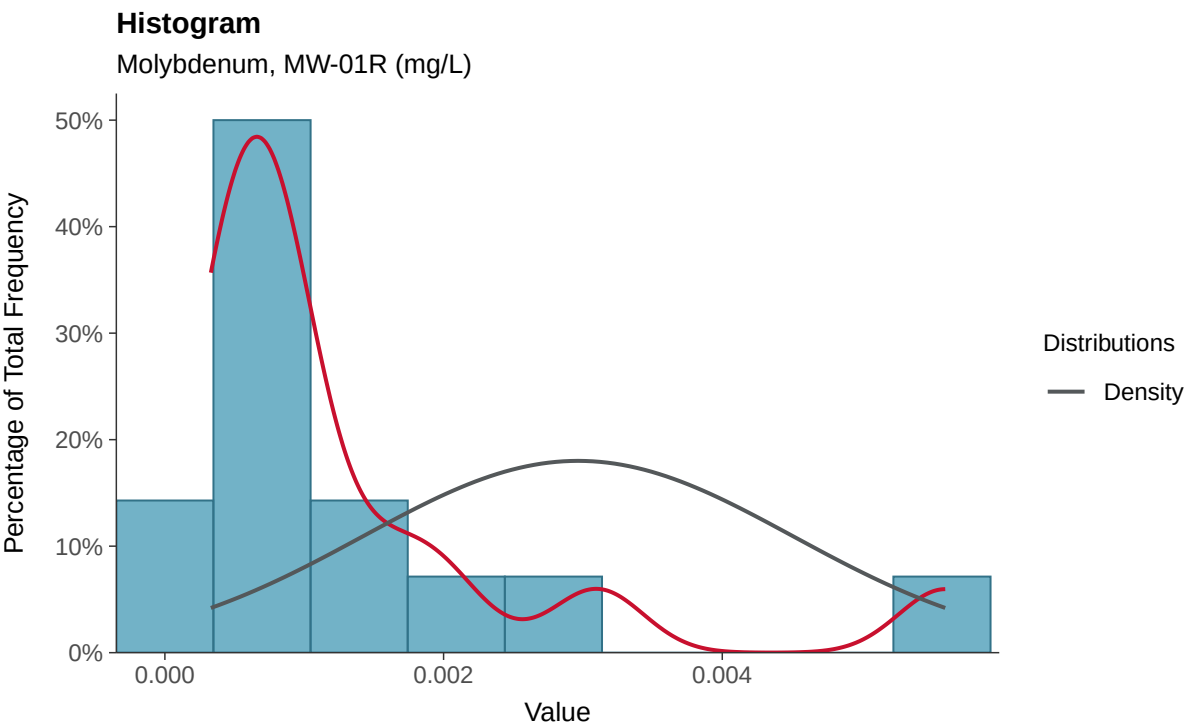
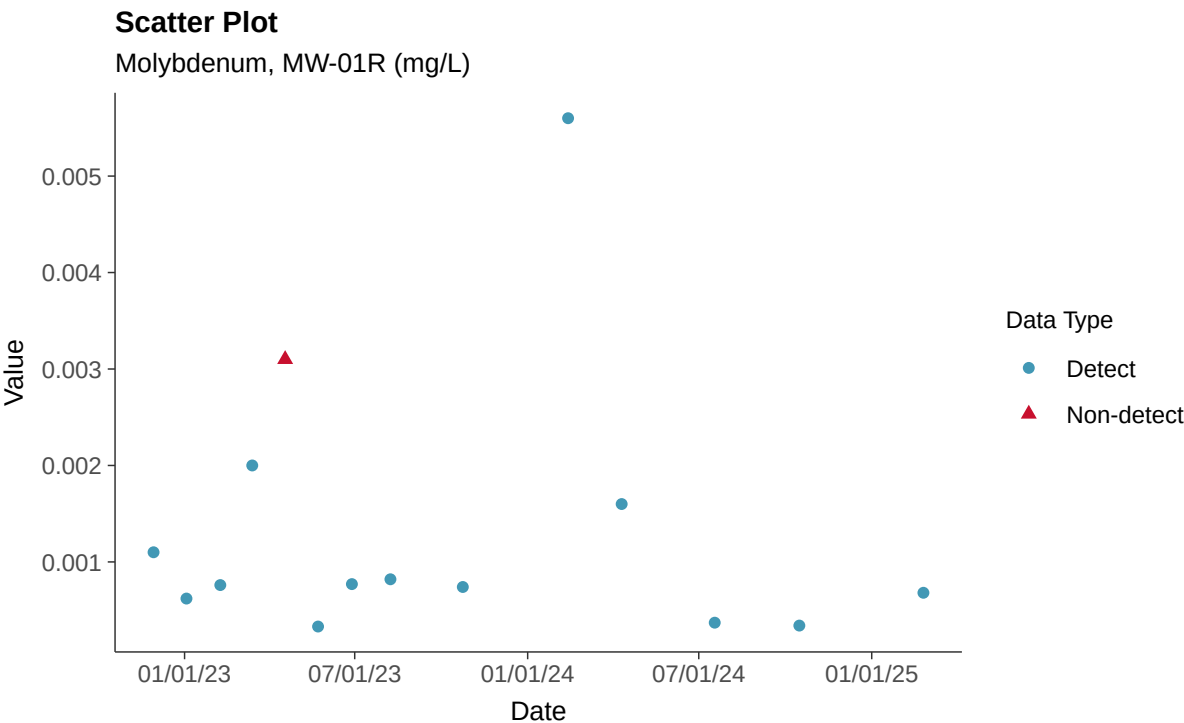


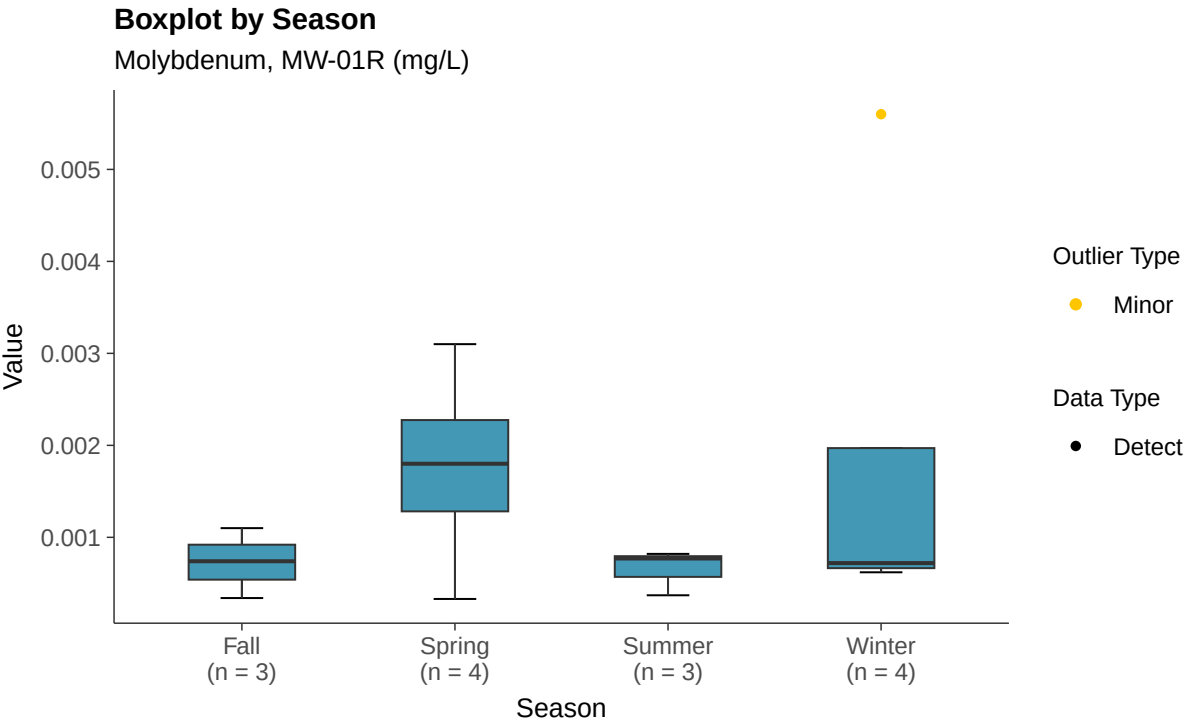
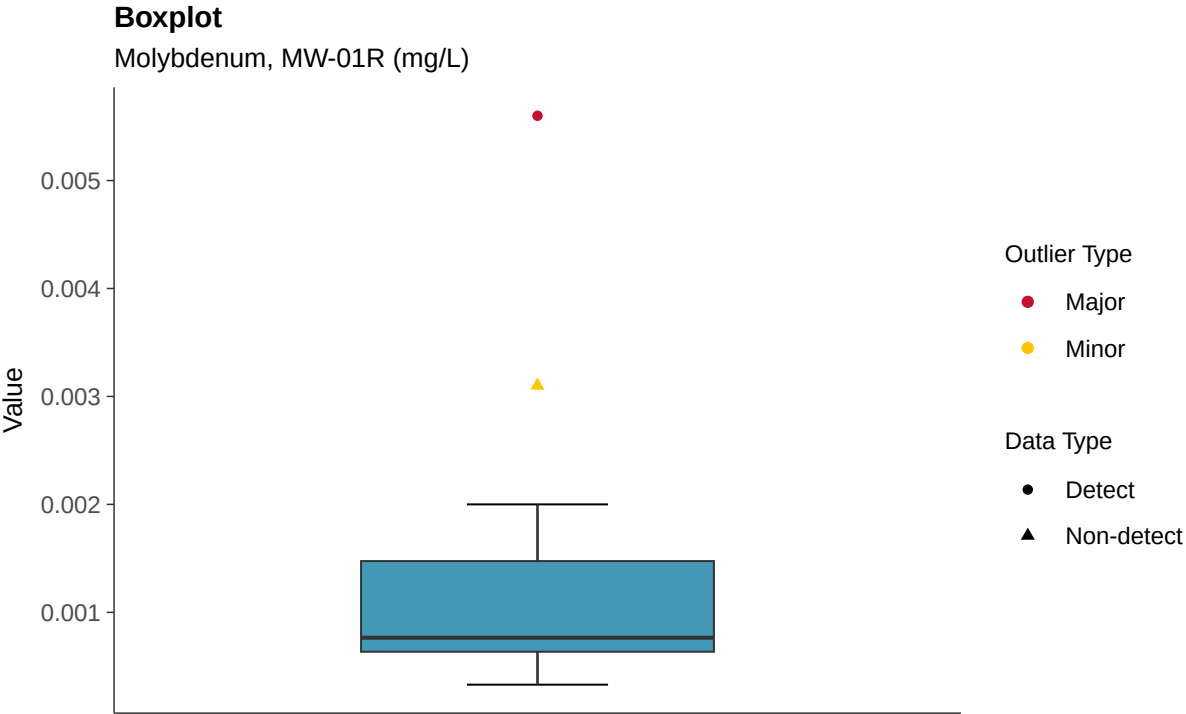




Appendix IV: Molybdenum, MW-01R

ID: 11_2_4_118

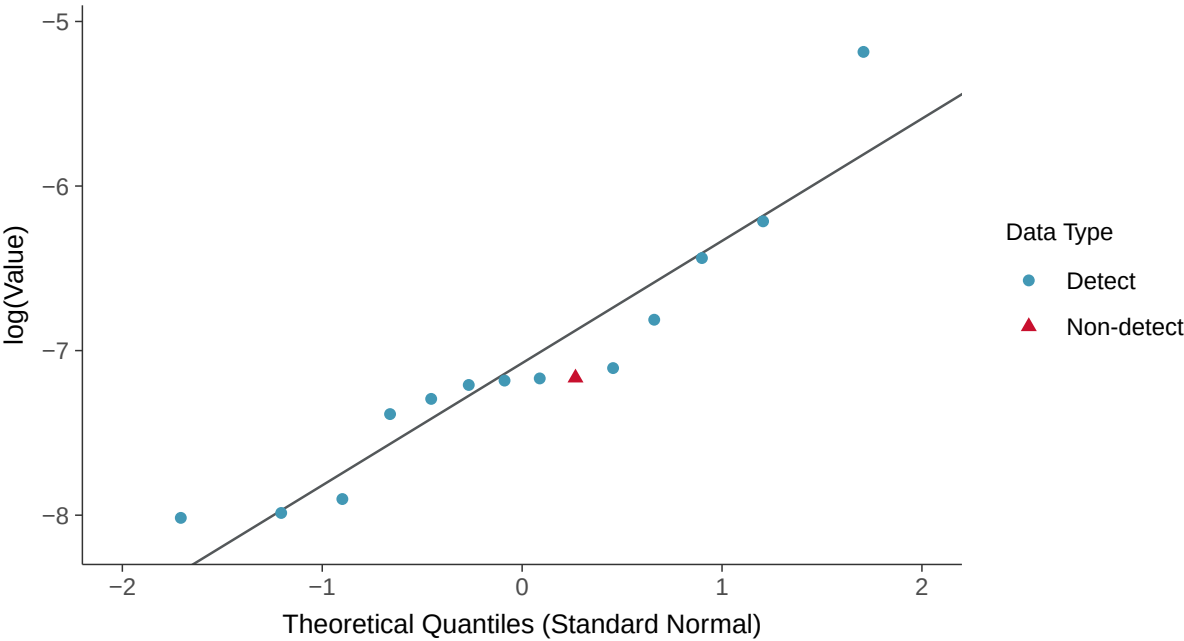






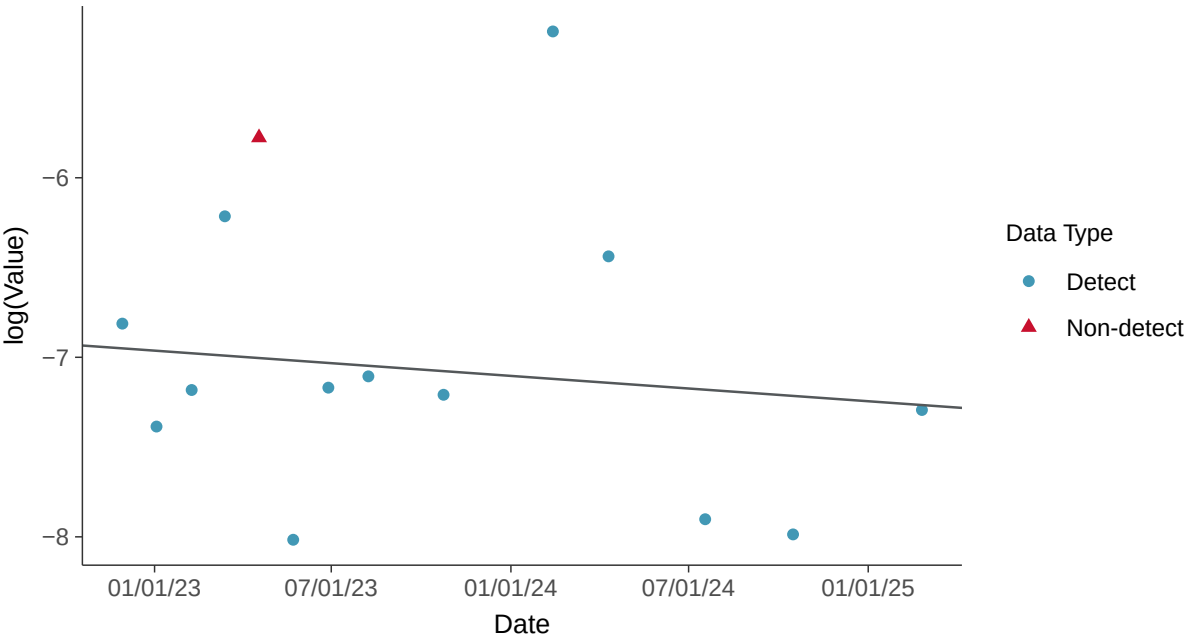
Lognormal Q-Q plot using ROS Imputed Estimates

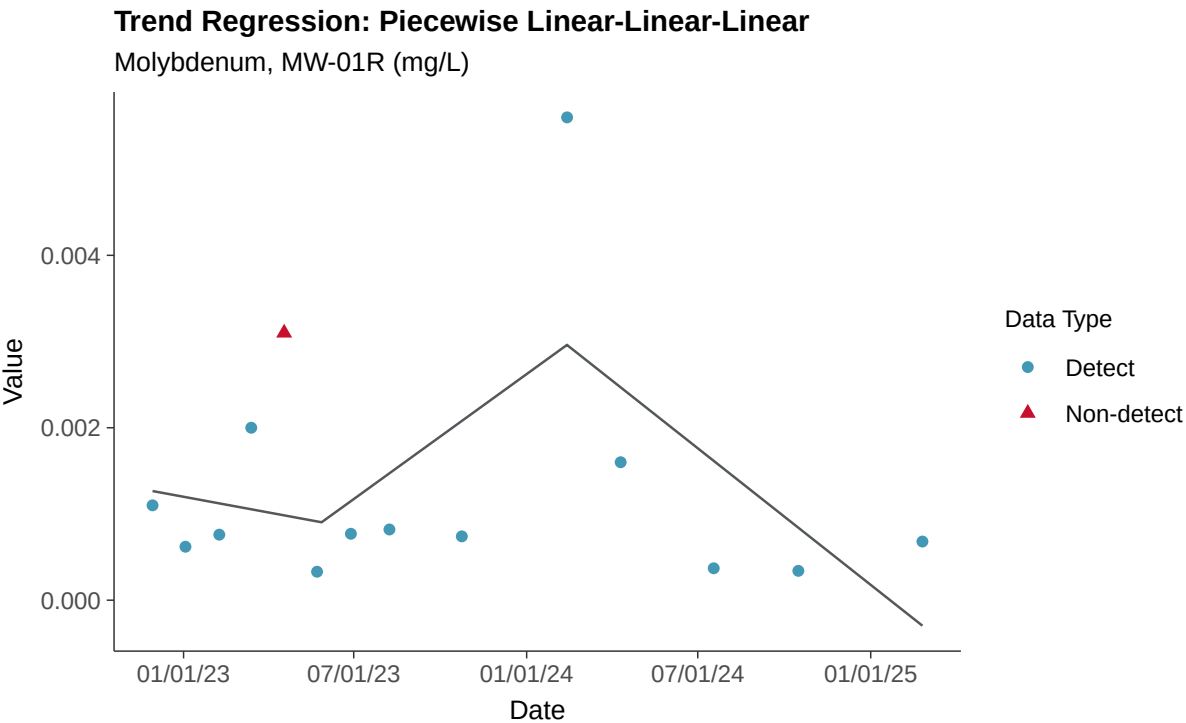
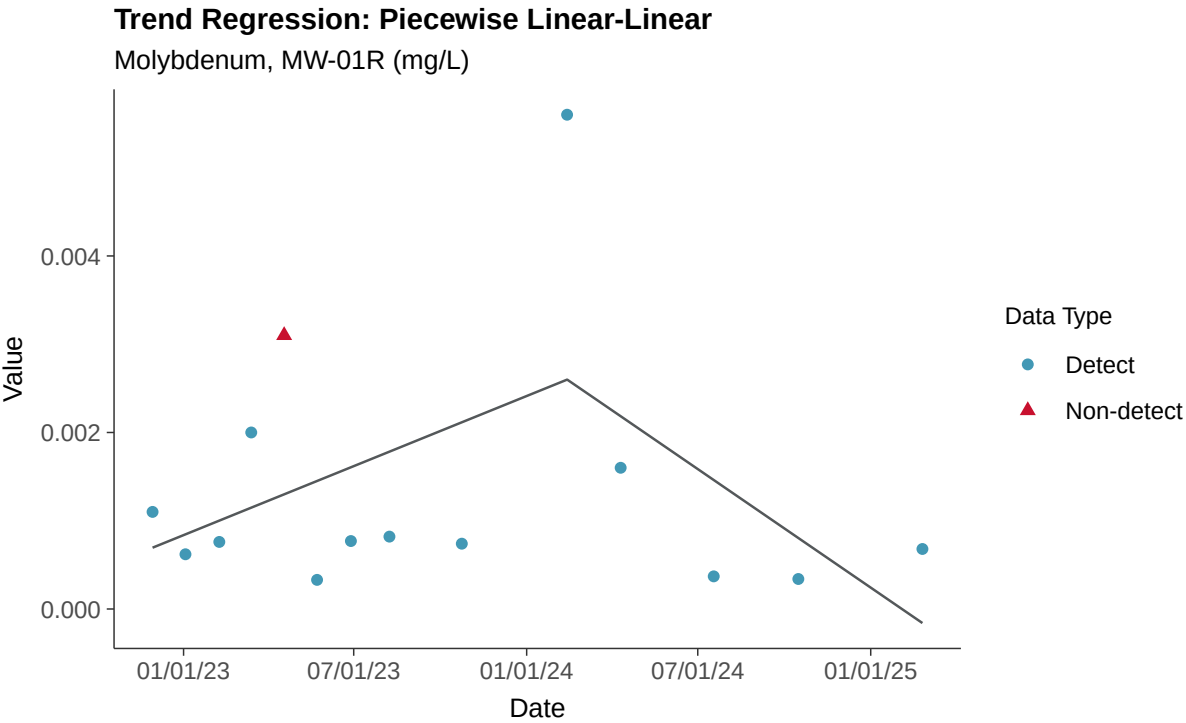
Molybdenum, MW-01R (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-01R (mg/L)

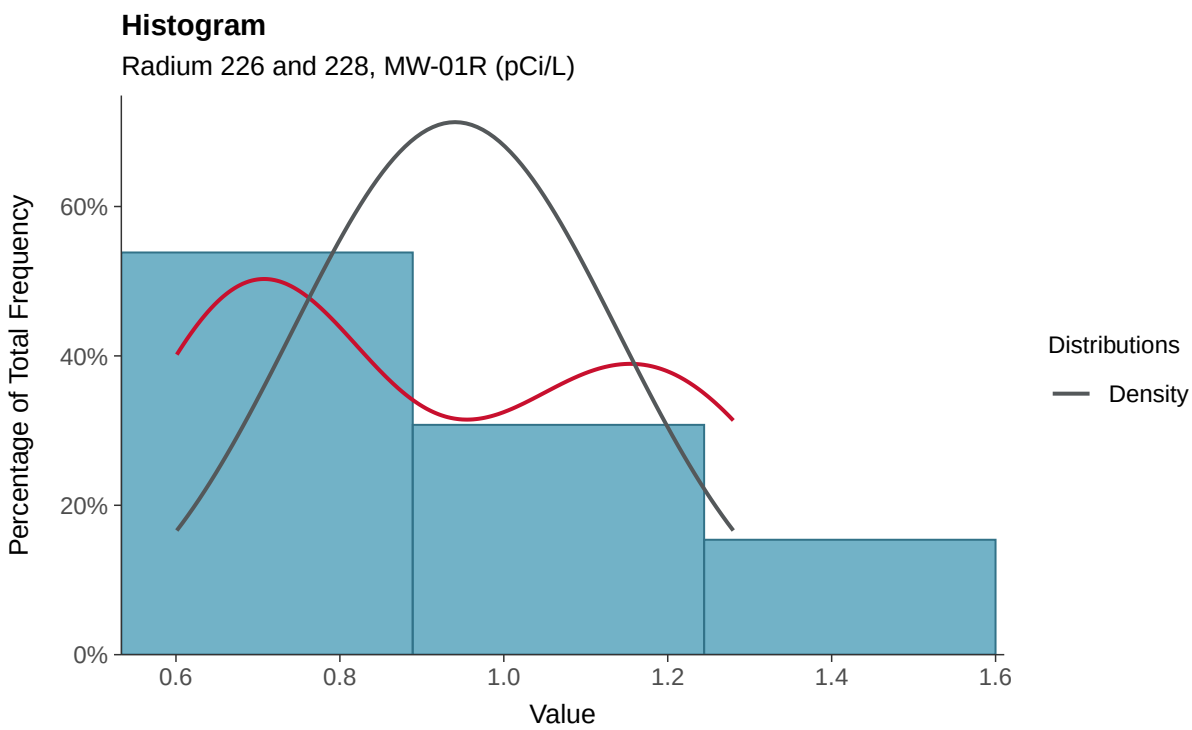
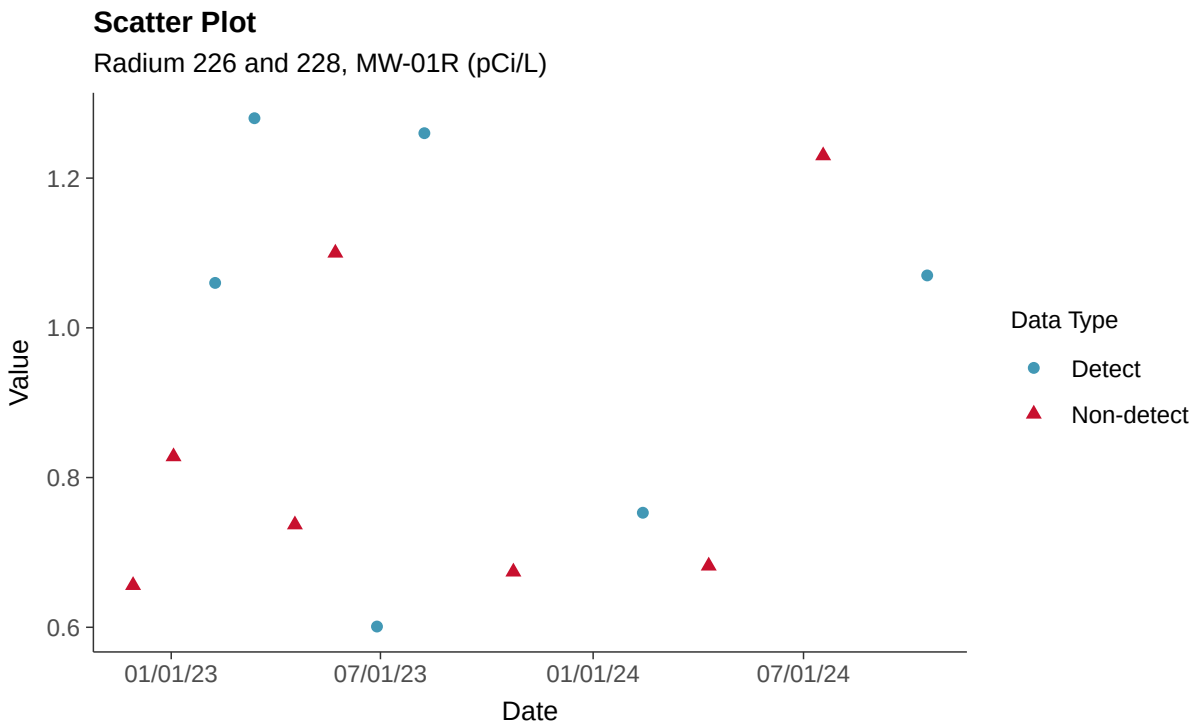






Appendix IV: Radium 226 and 228, MW-01R

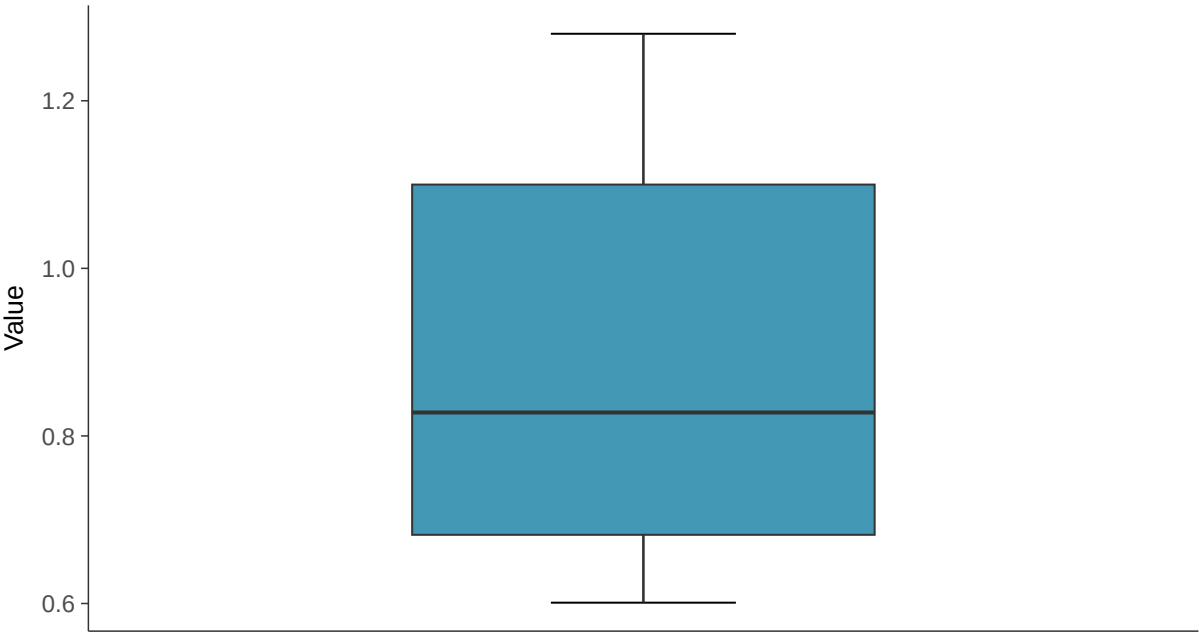
ID: 11_2_4_121





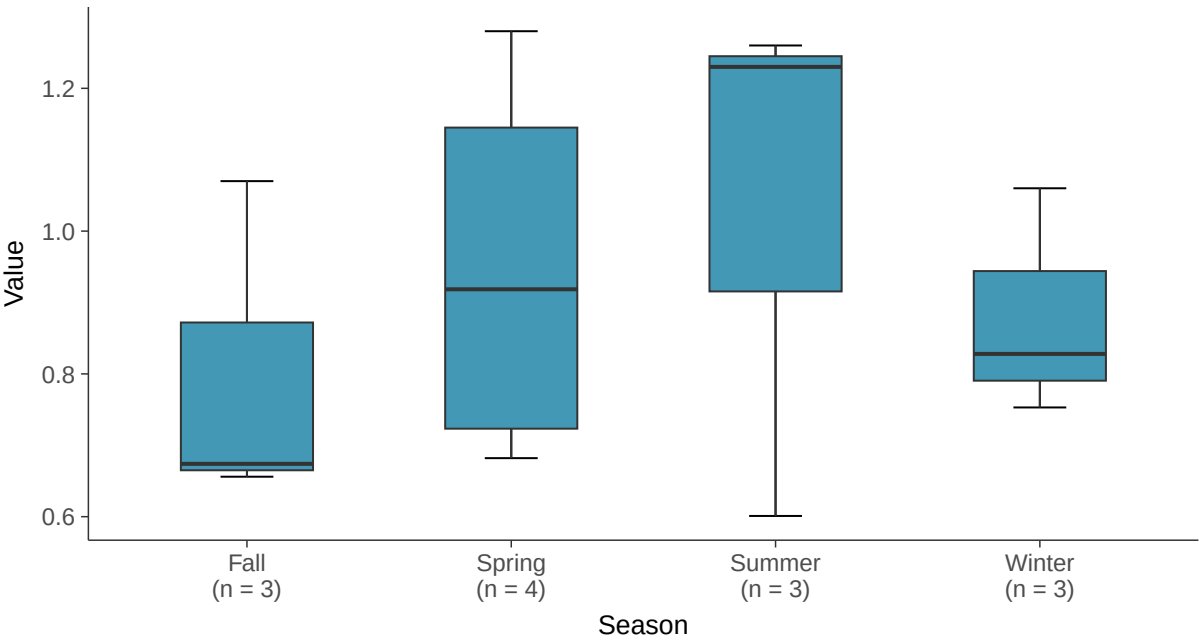
Boxplot

Radium 226 and 228, MW-01R (pCi/L)



Boxplot by Season

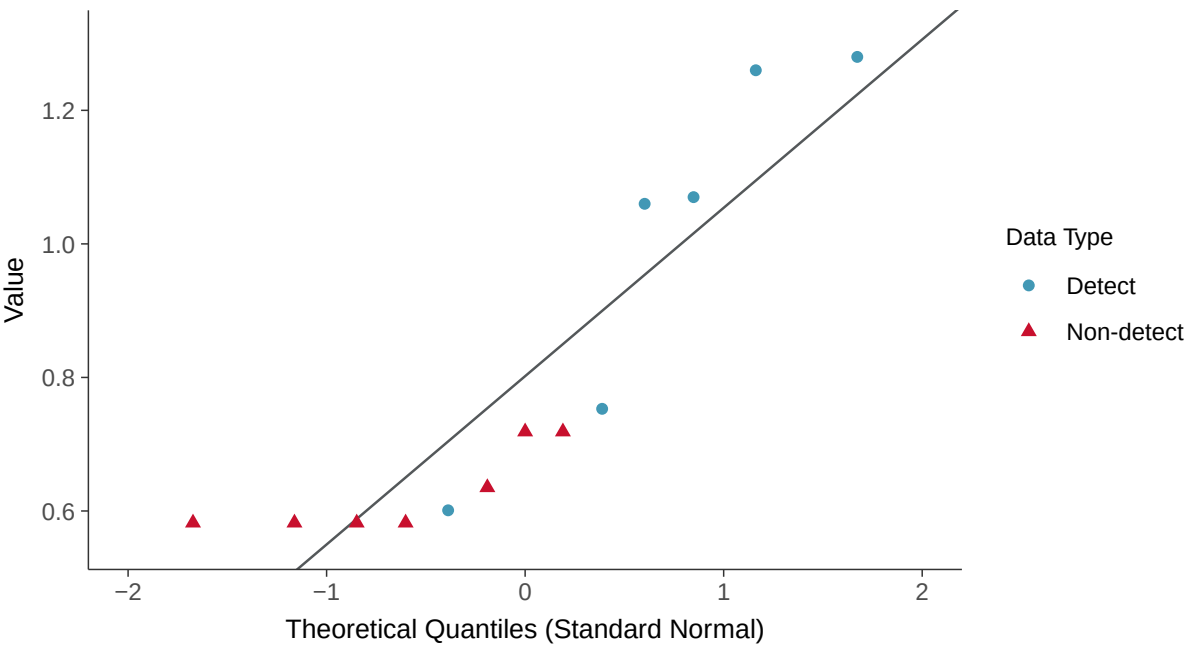
Radium 226 and 228, MW-01R (pCi/L)





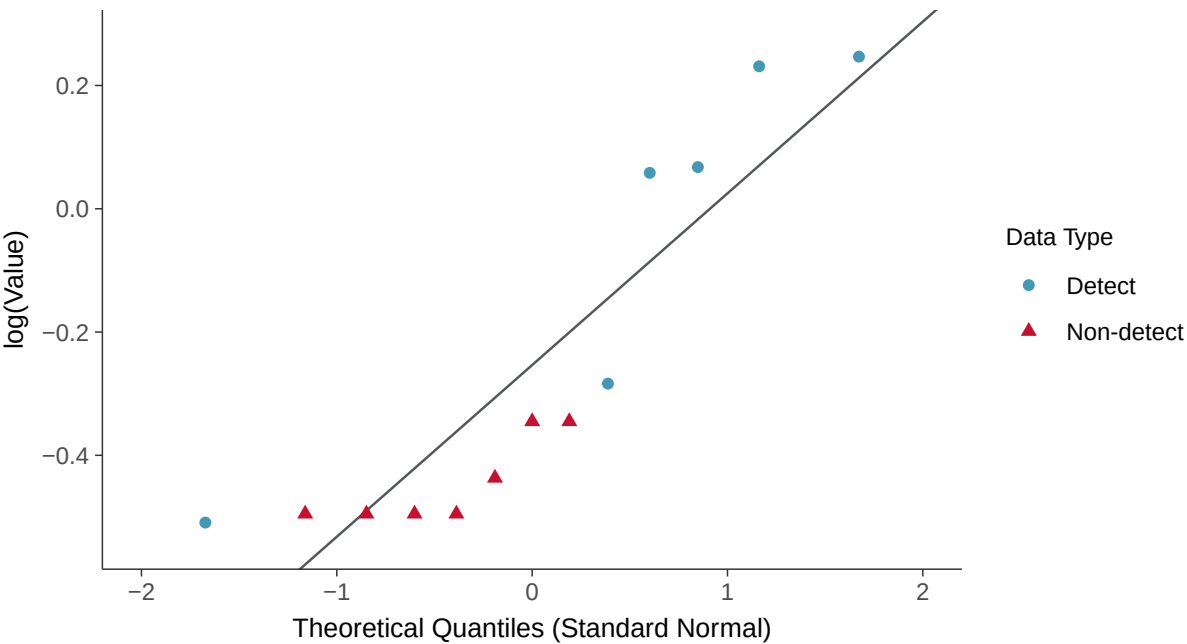
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

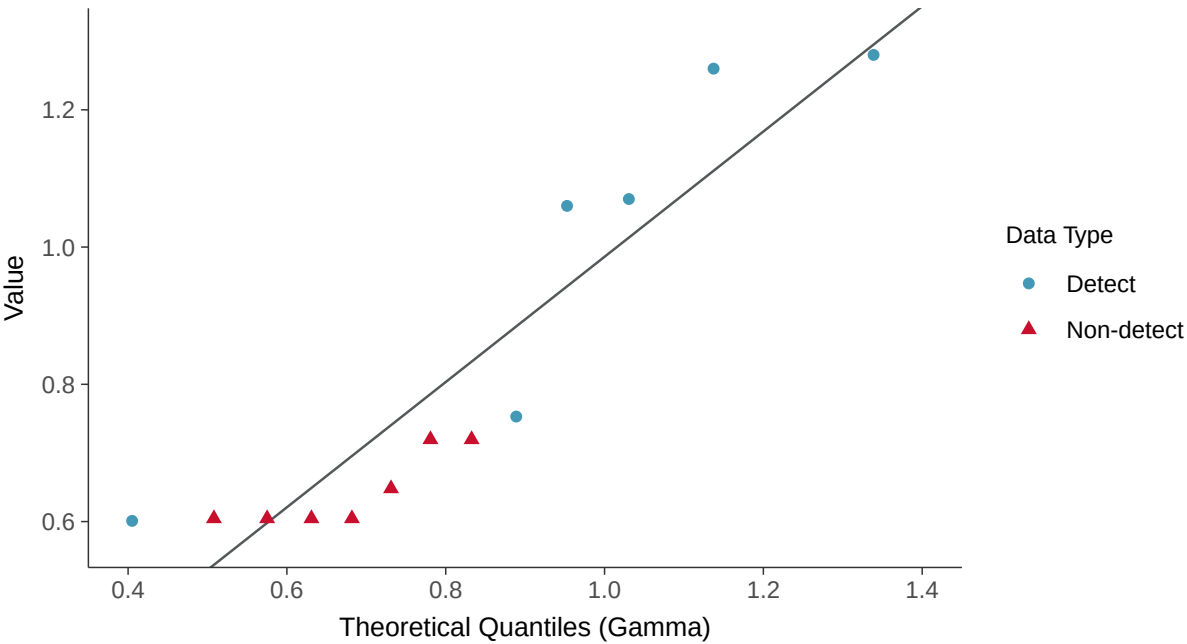
Radium 226 and 228, MW-01R (pCi/L)





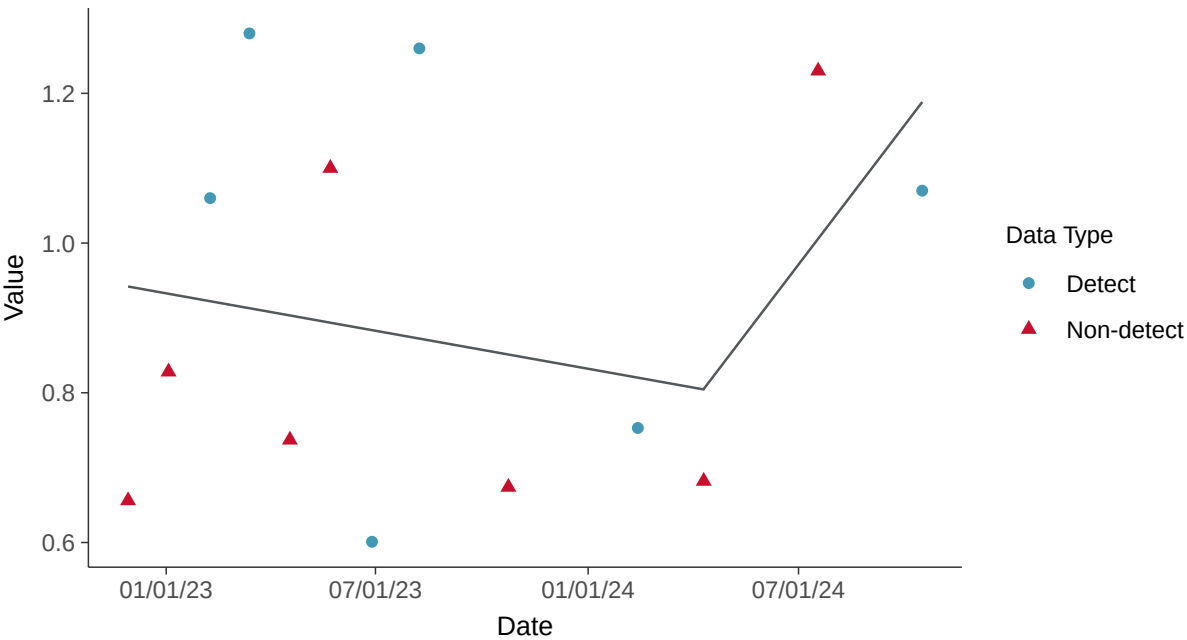
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



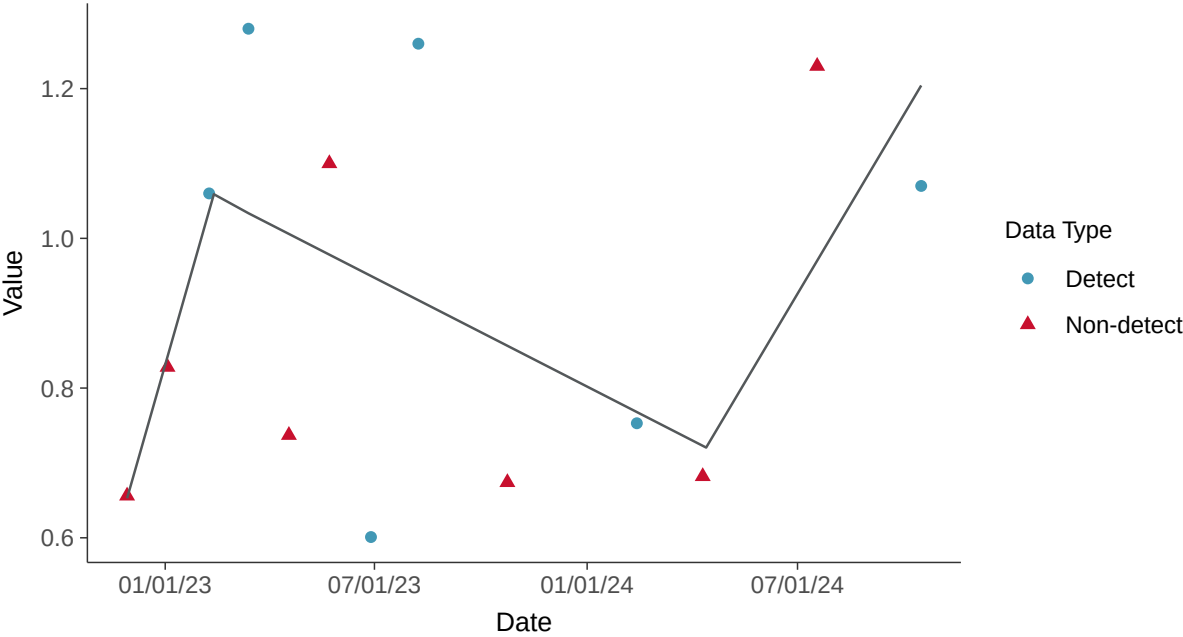
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-01R (pCi/L)





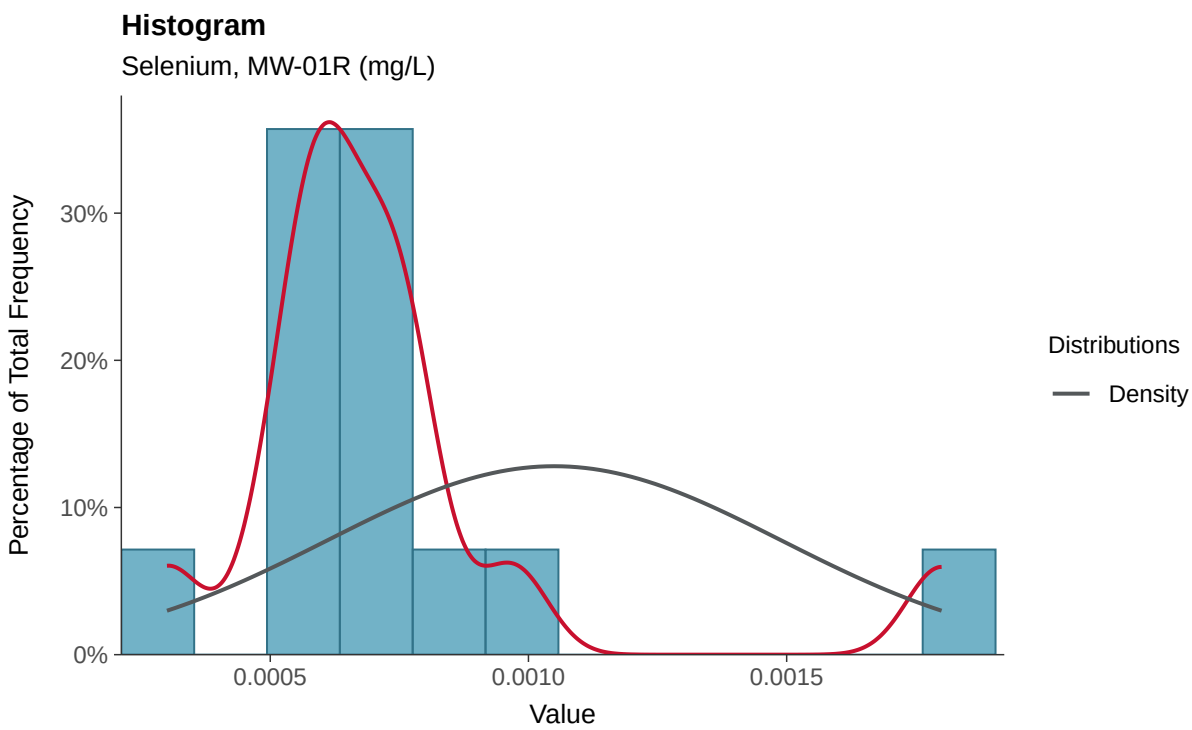
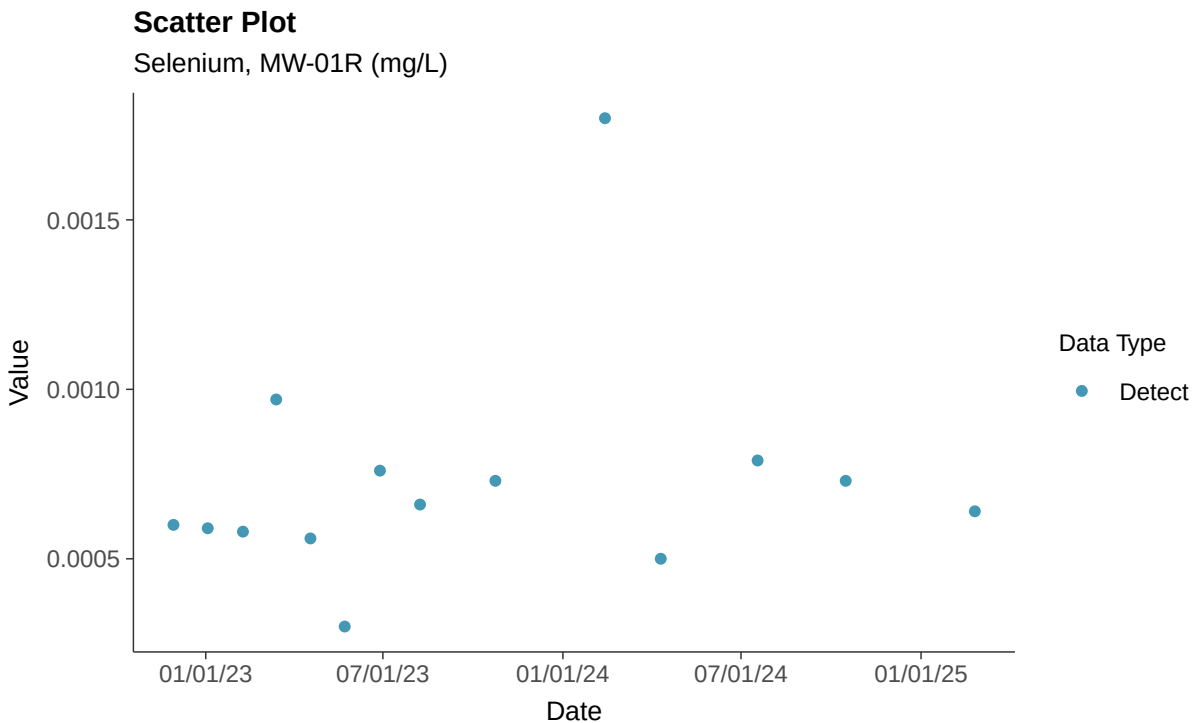
Trend Regression: Piecewise Linear-Linear-Linear
Radium 226 and 228, MW-01R (pCi/L)

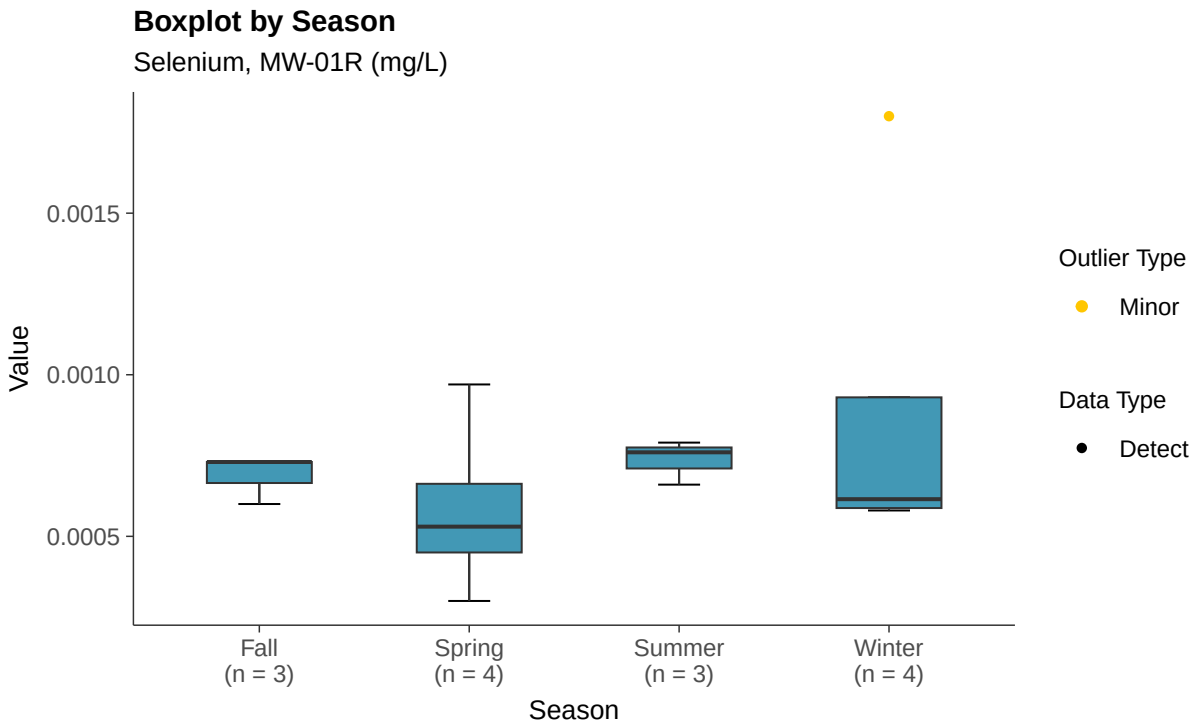
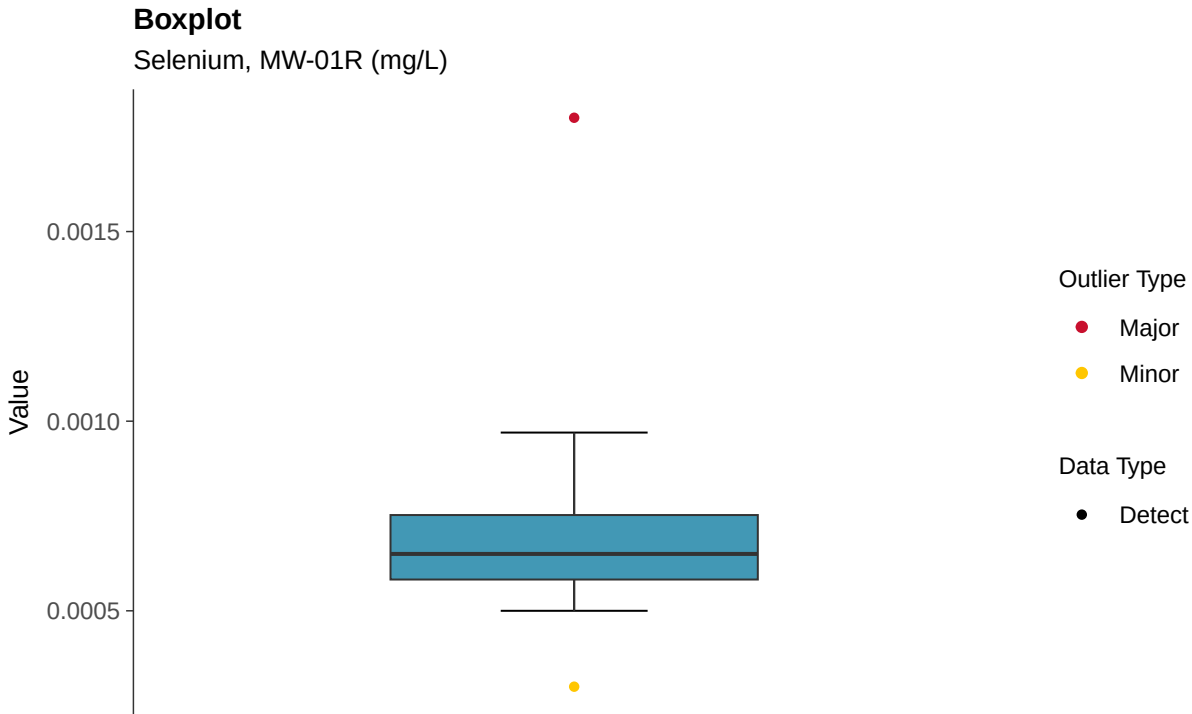


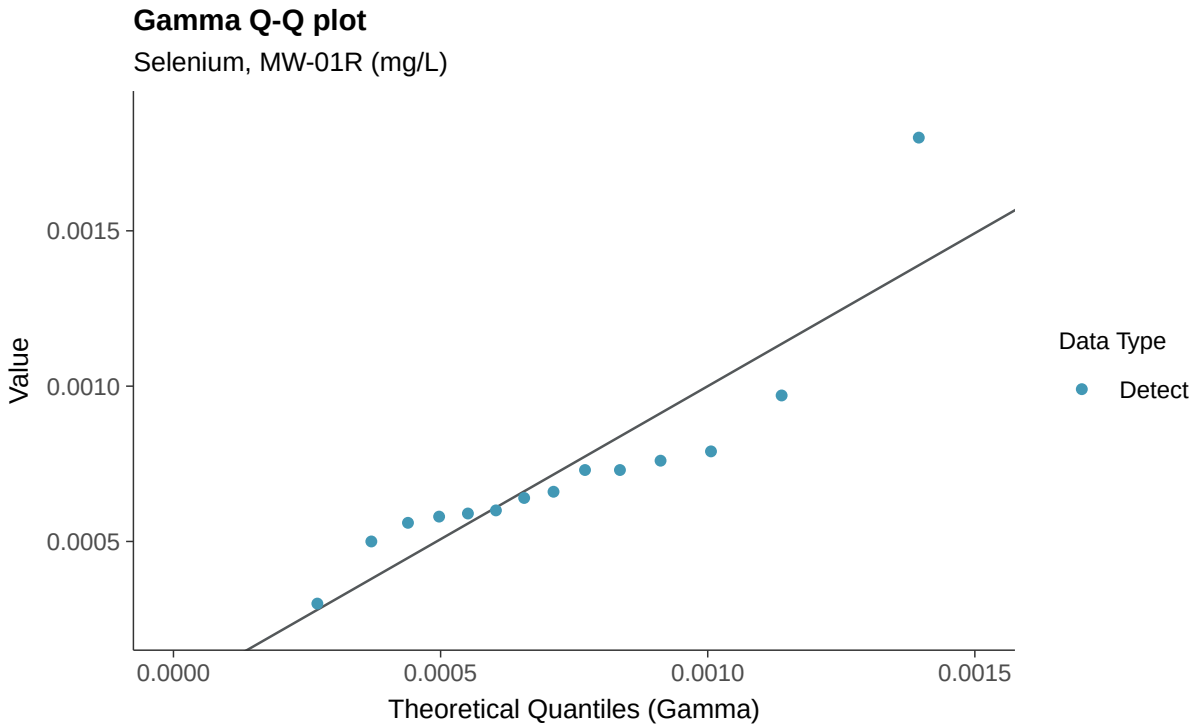
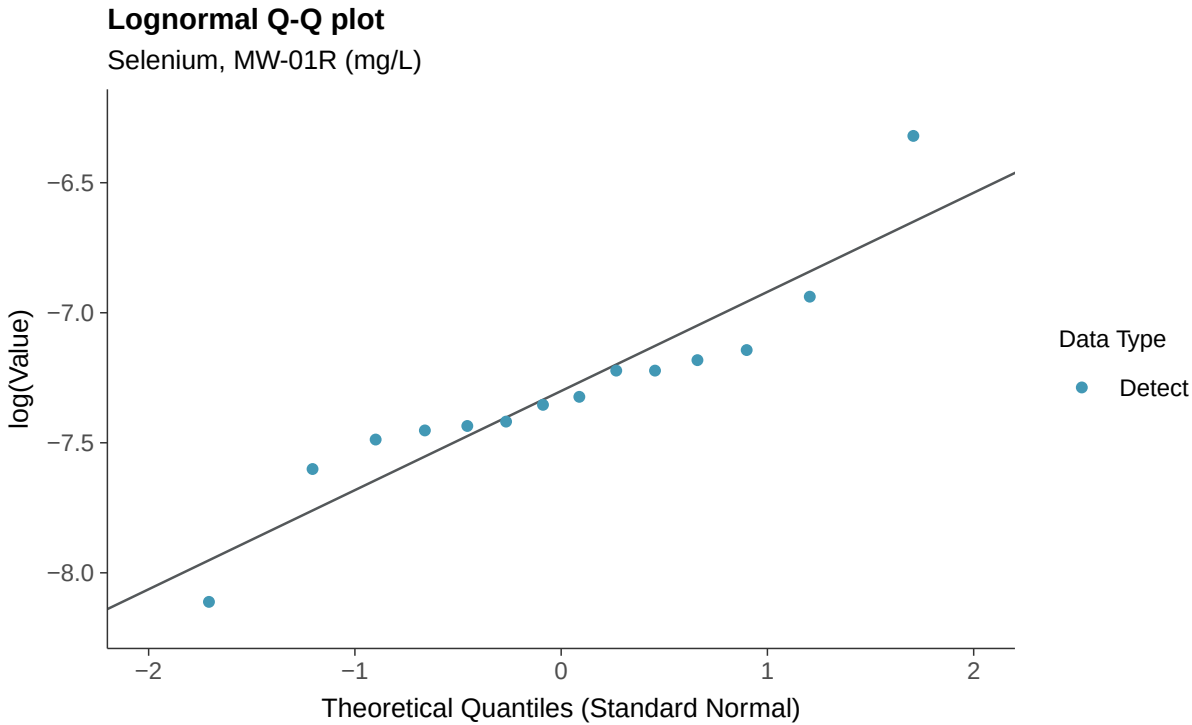


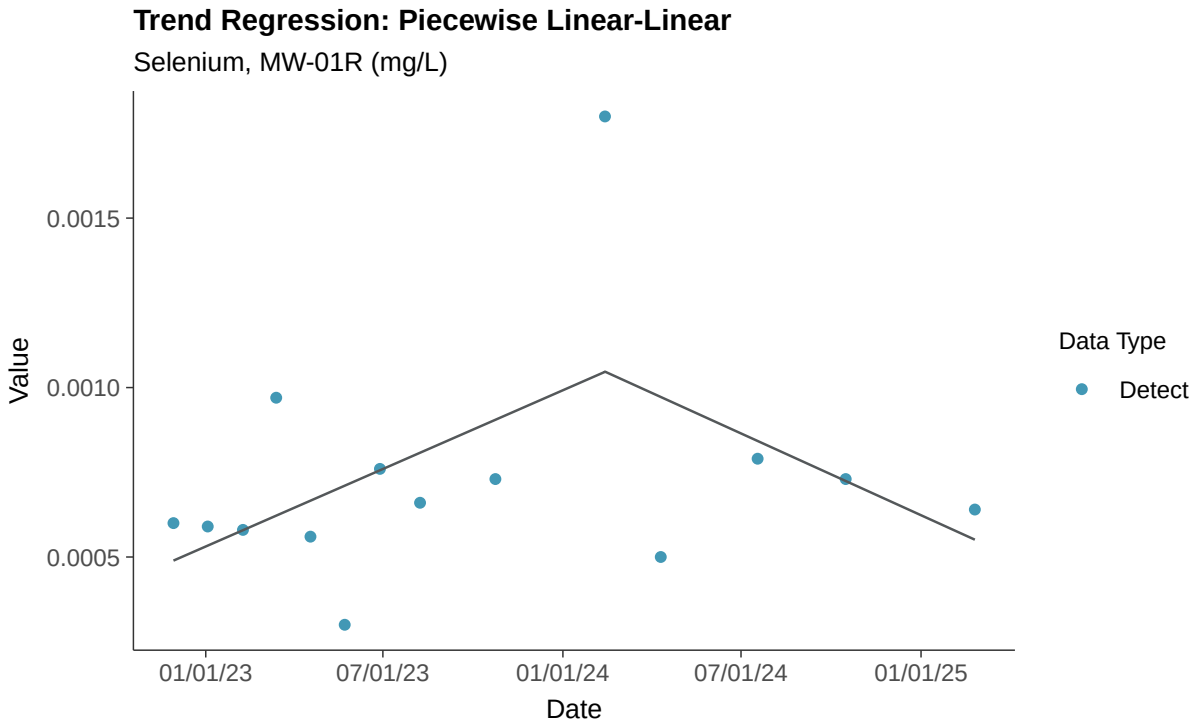
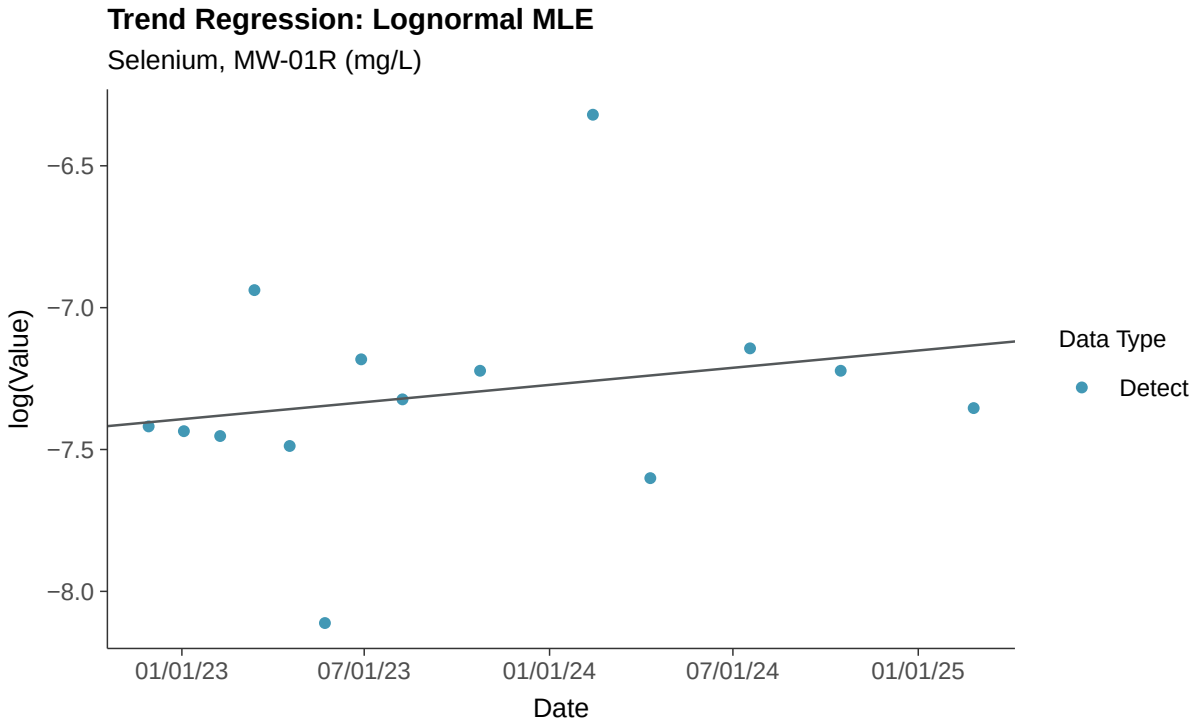
Appendix IV: Selenium, MW-01R

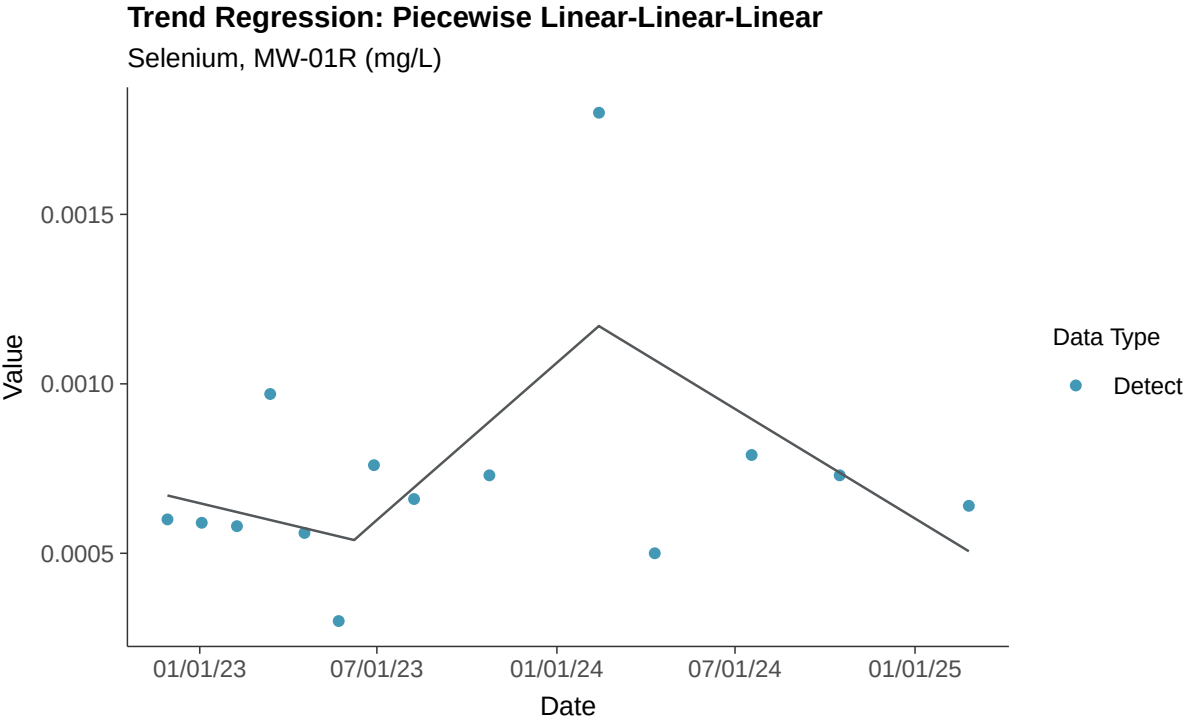
ID: 11_2_4_122







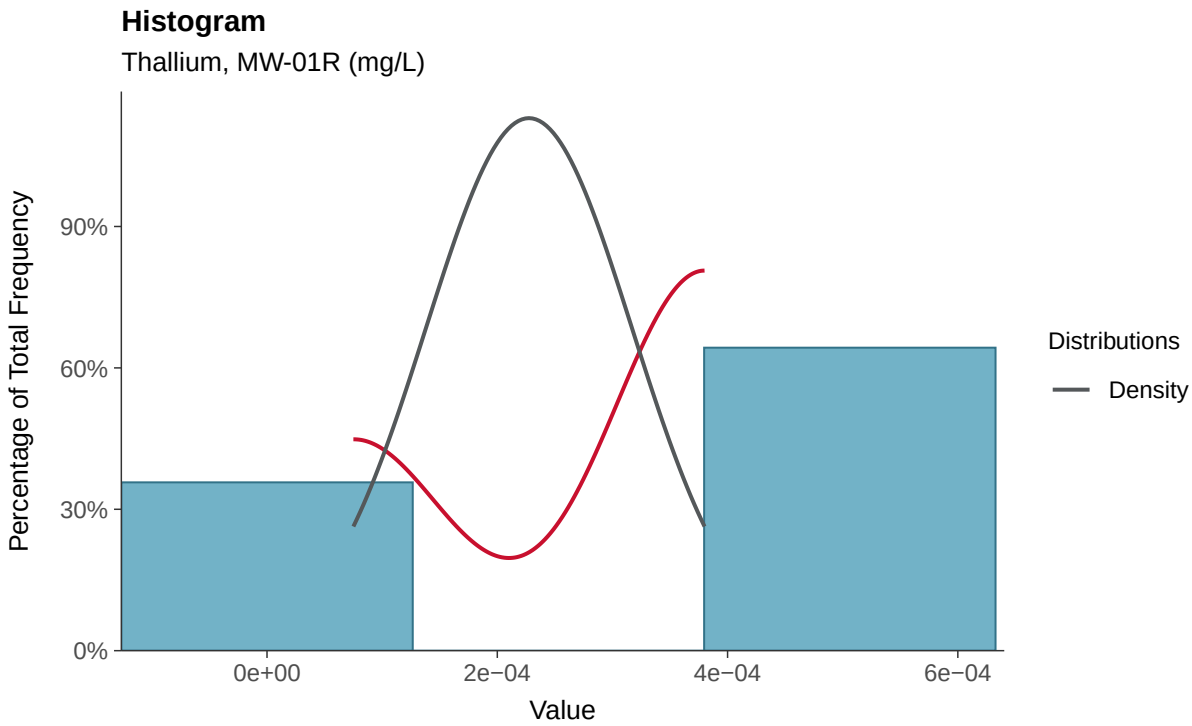
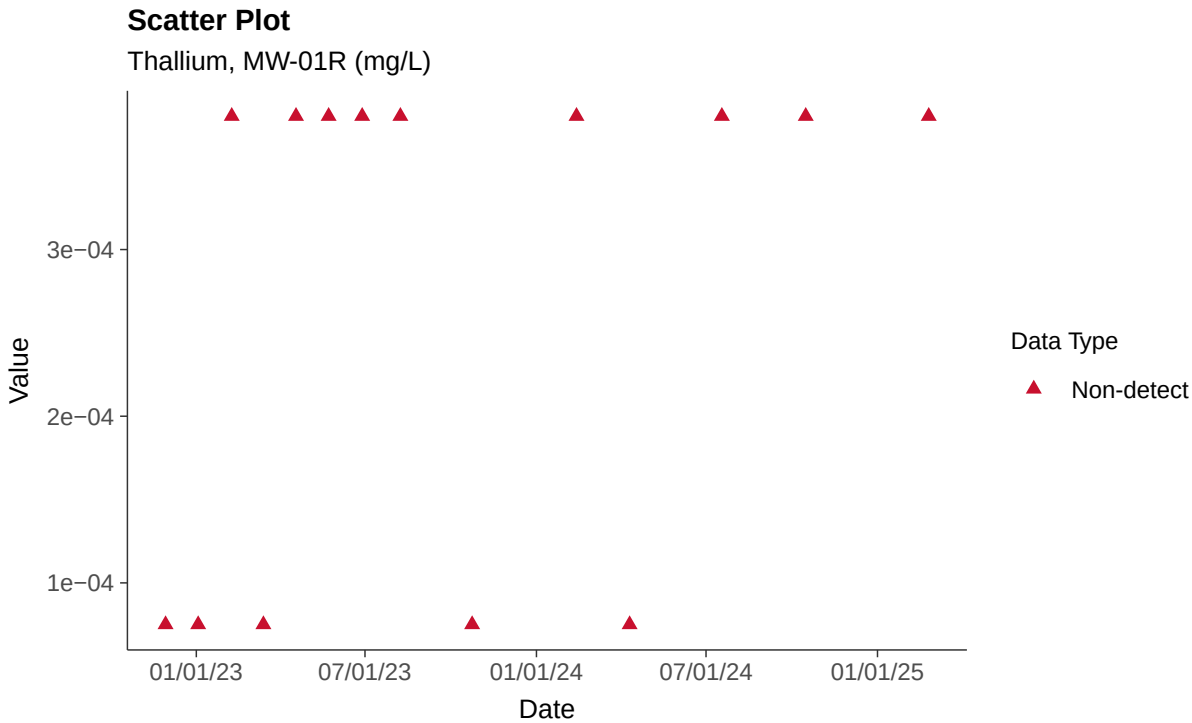


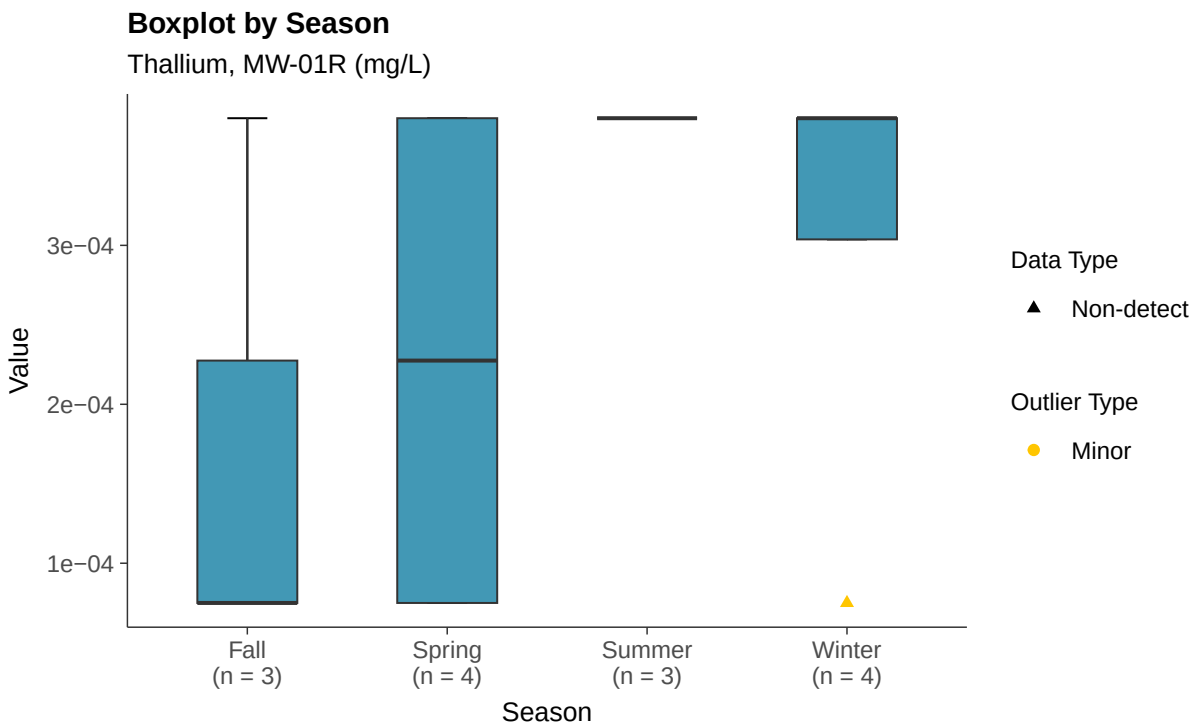
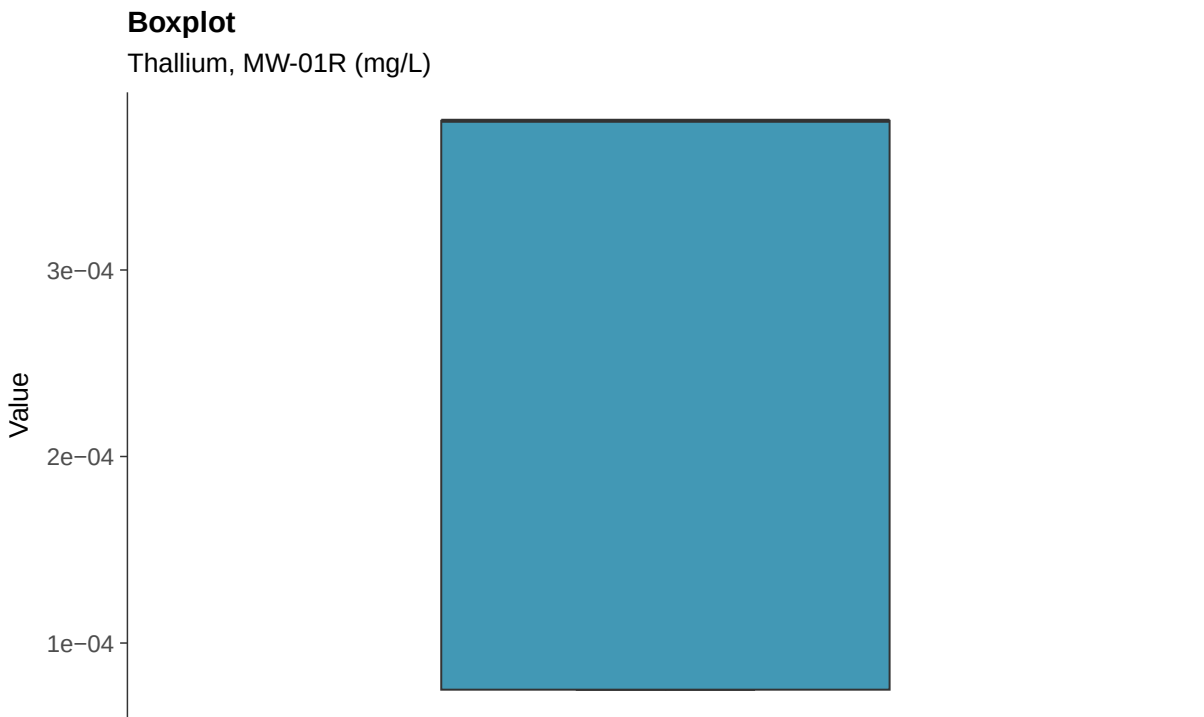


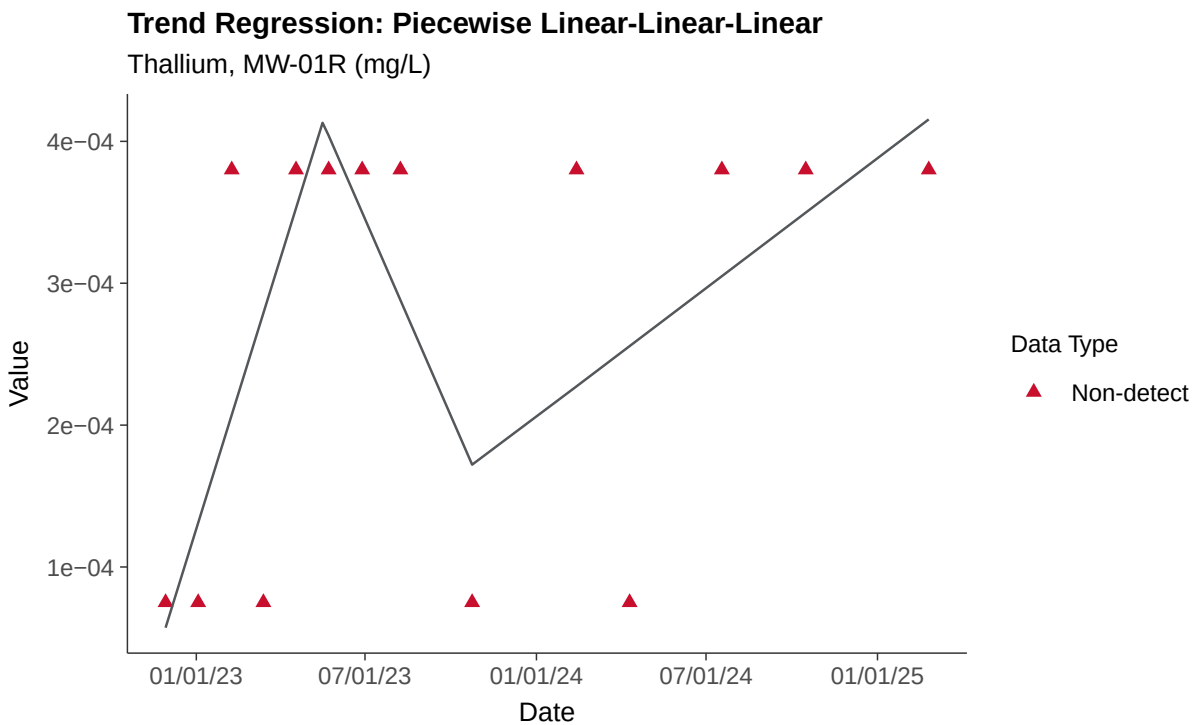
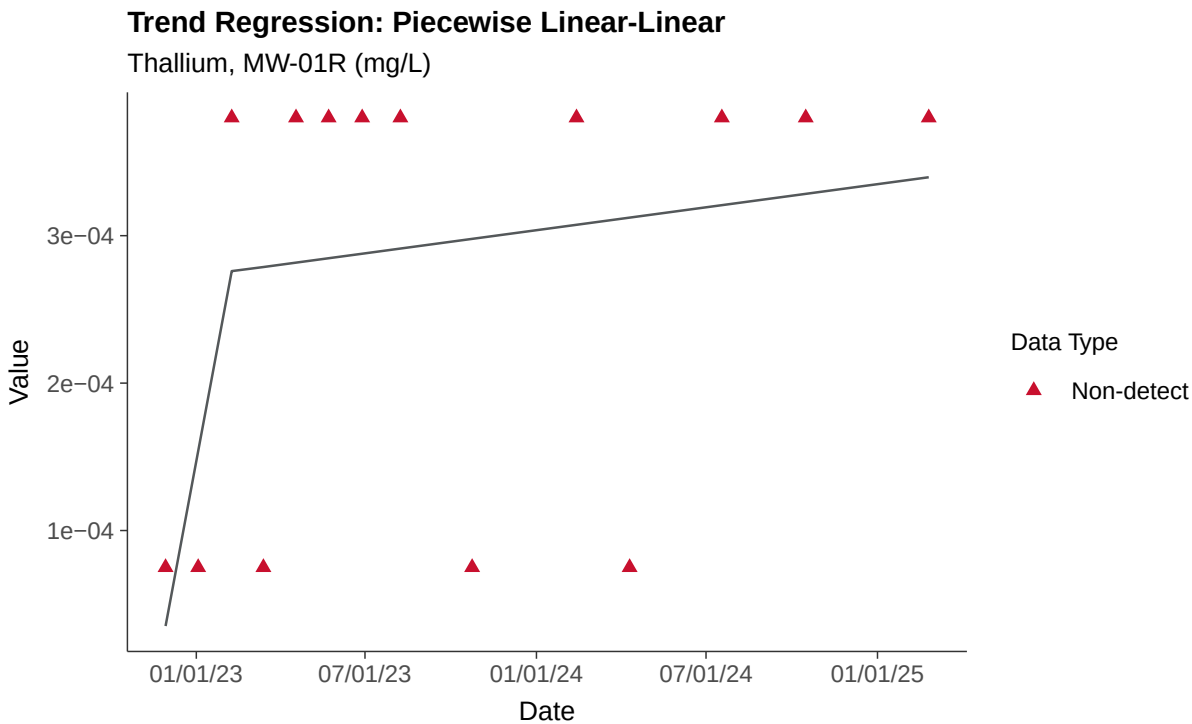


Appendix IV: Thallium, MW-01R

ID: 11_2_4_125



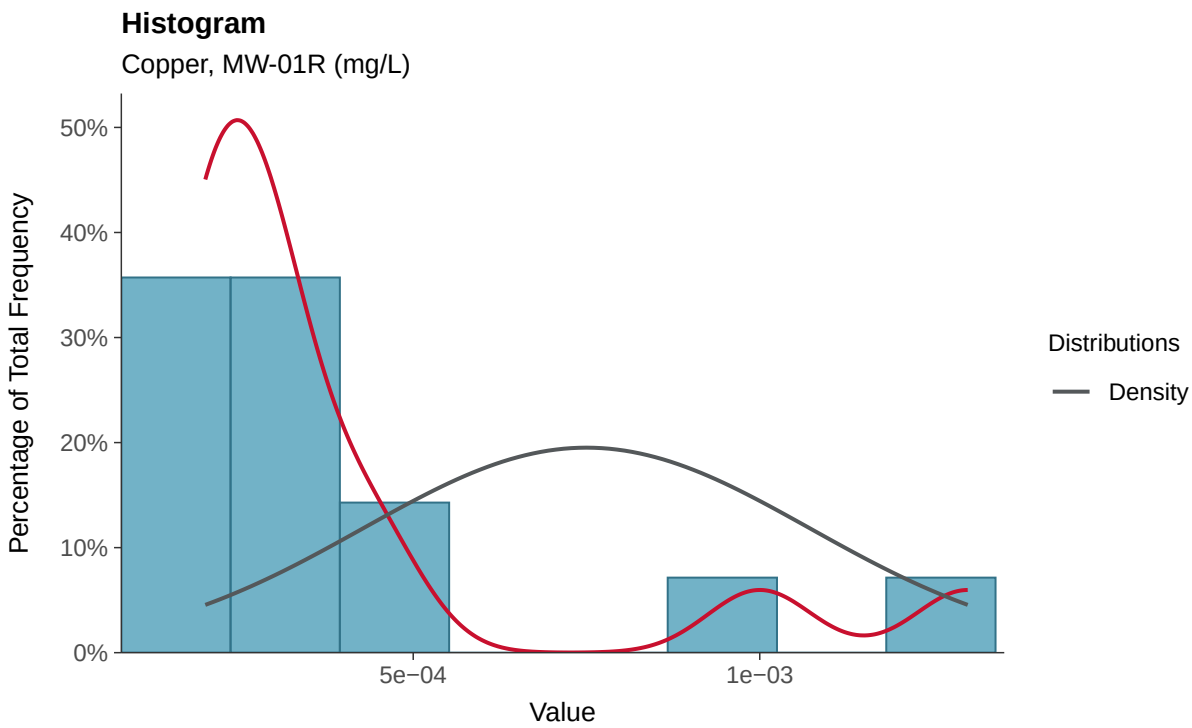
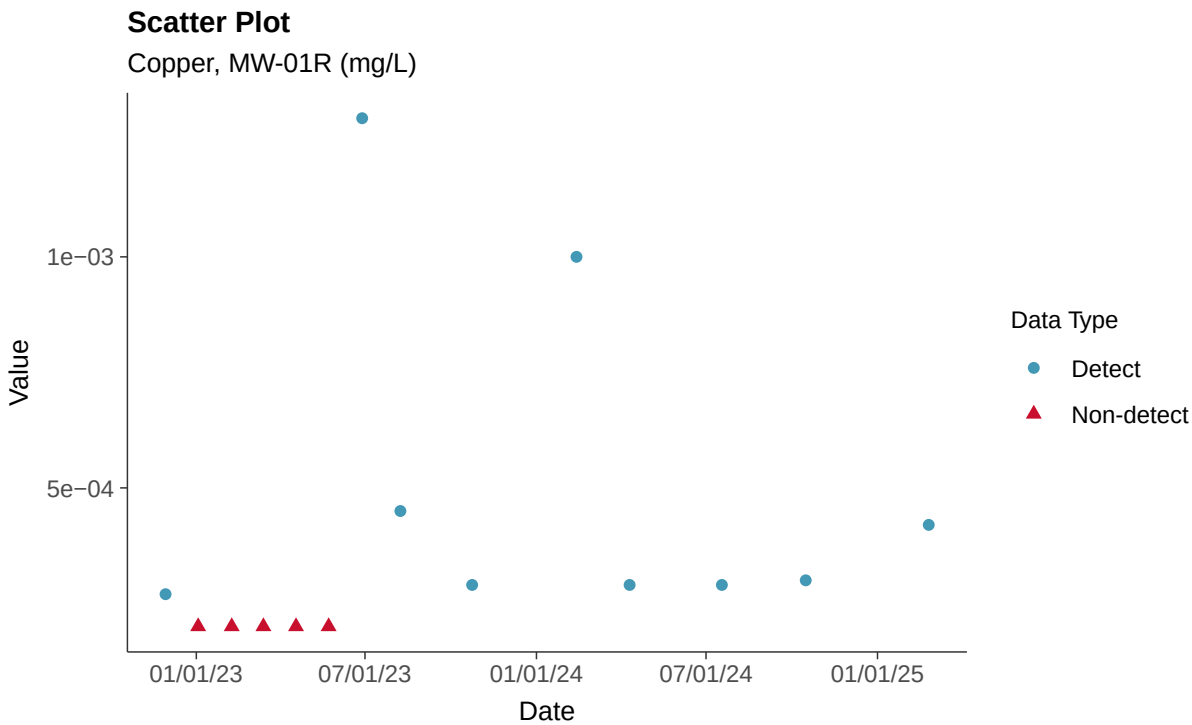


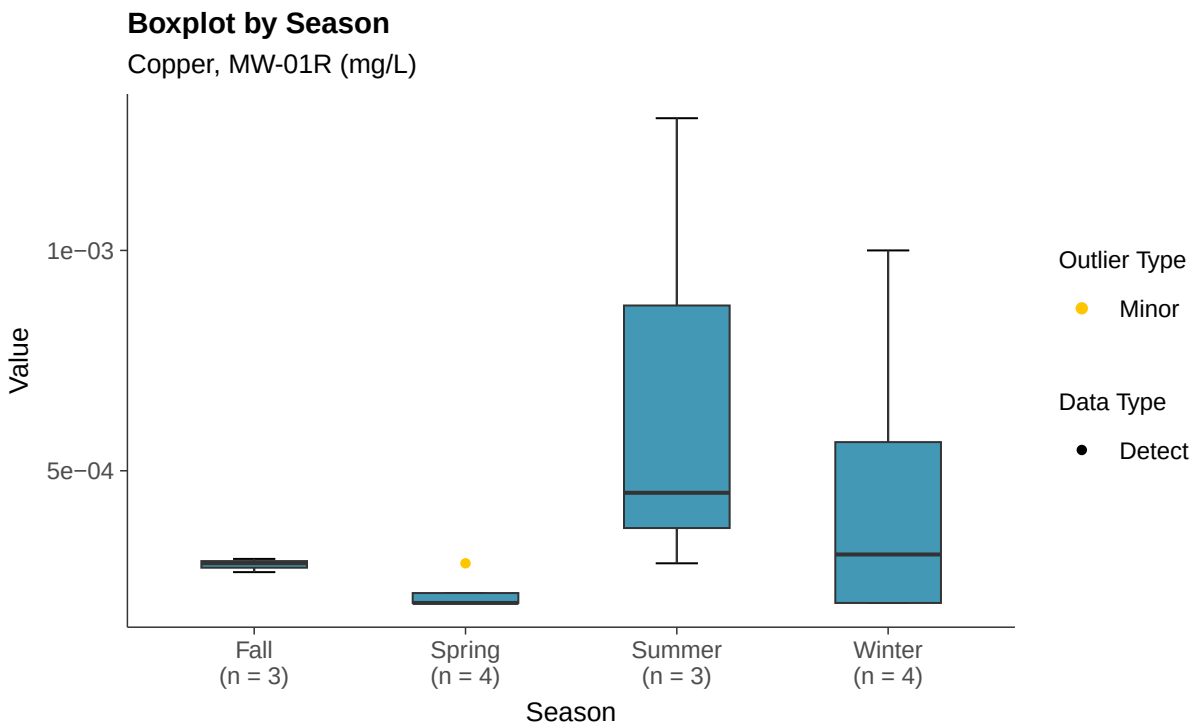
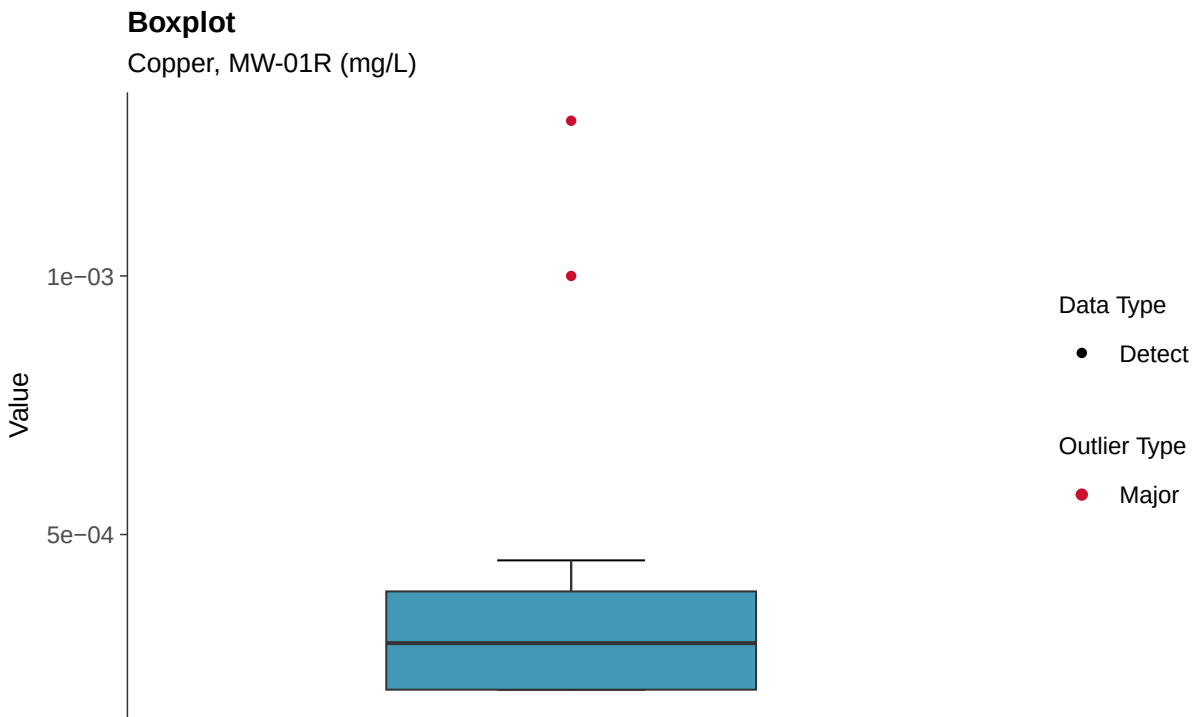




Part 115: Copper, MW-01R

ID: 11_2_5_111

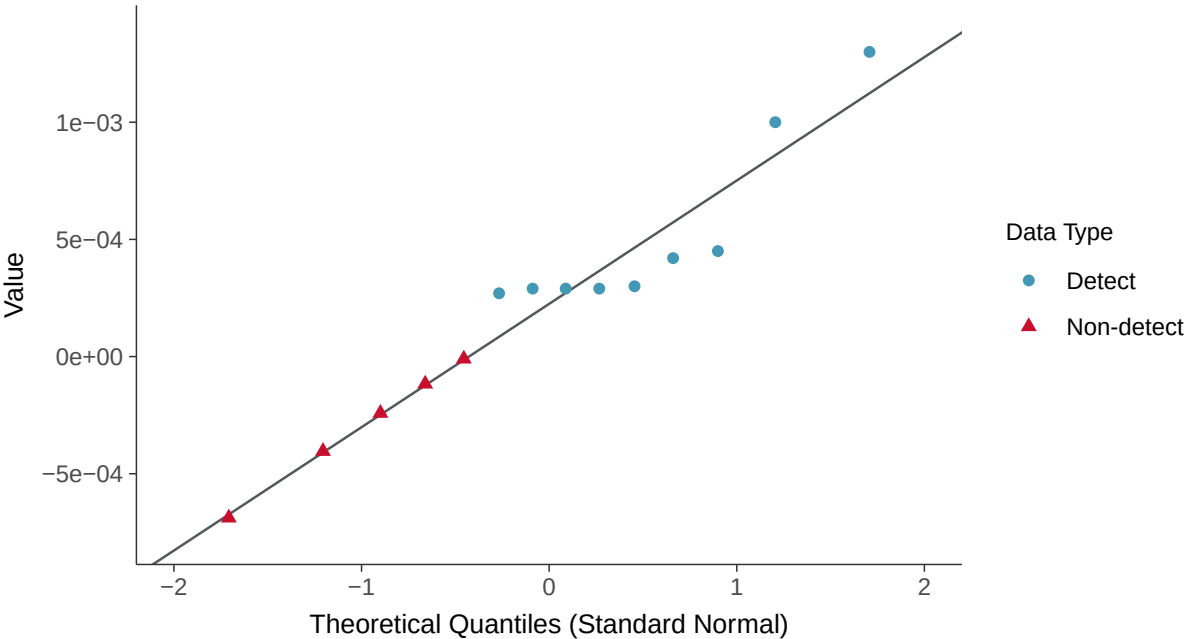






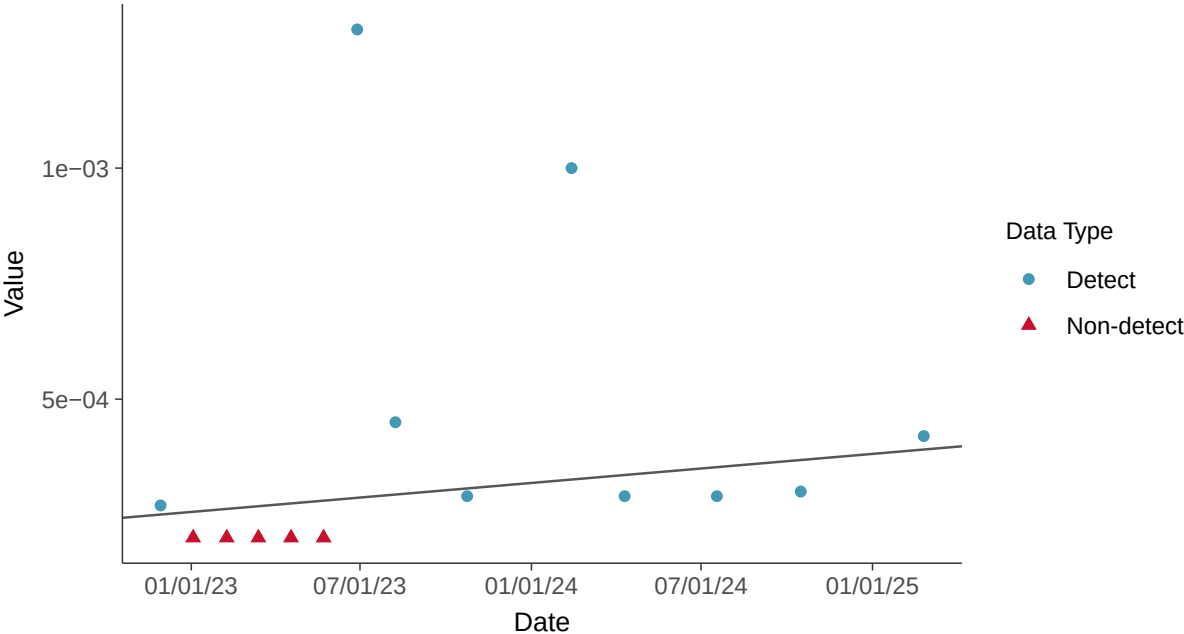
Normal Q-Q plot using ROS Imputed Estimates

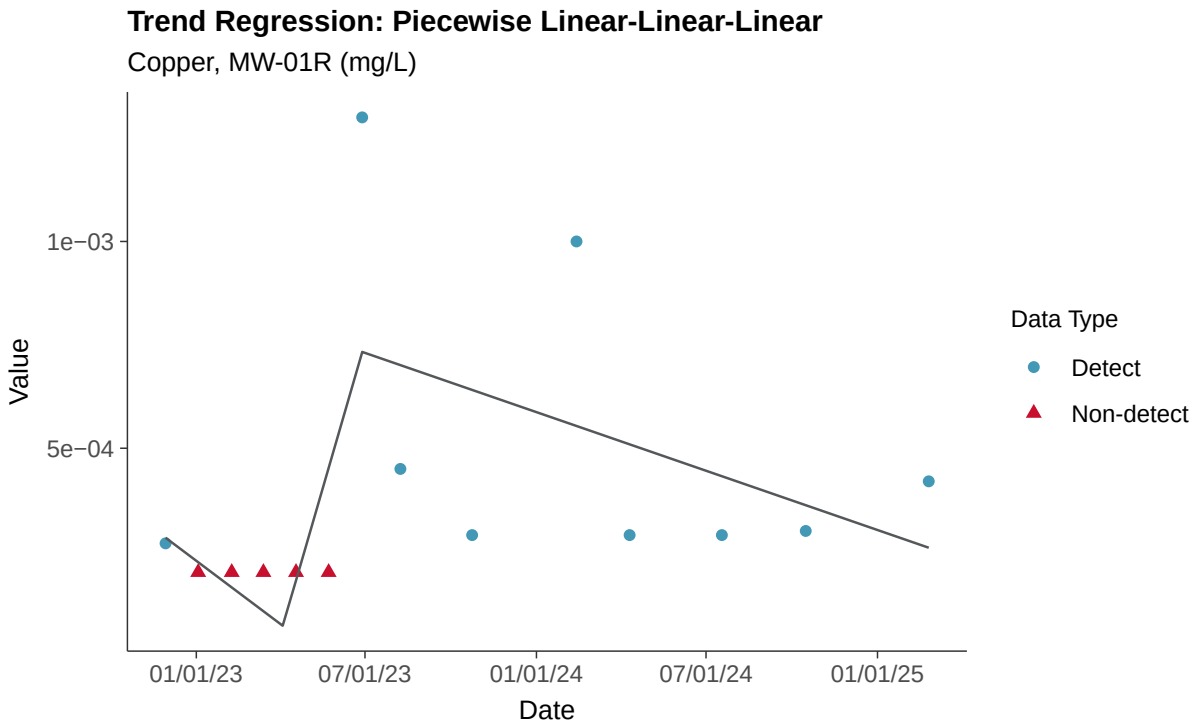
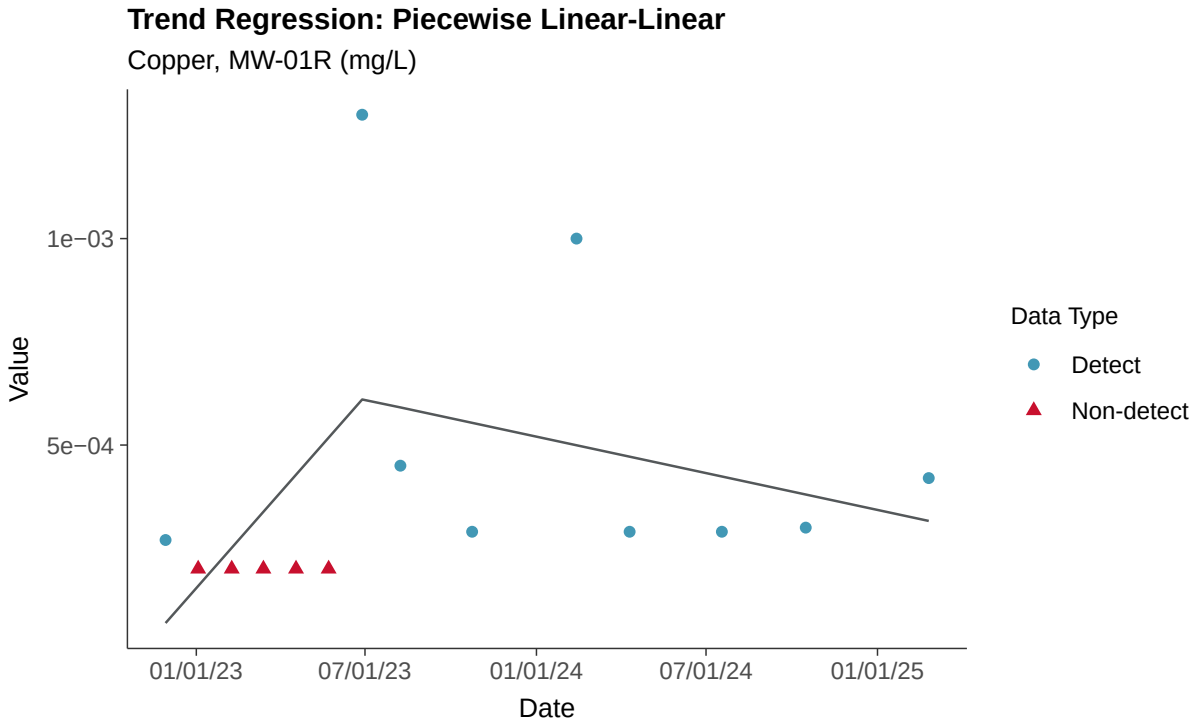
Copper, MW-01R (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Copper, MW-01R (mg/L)

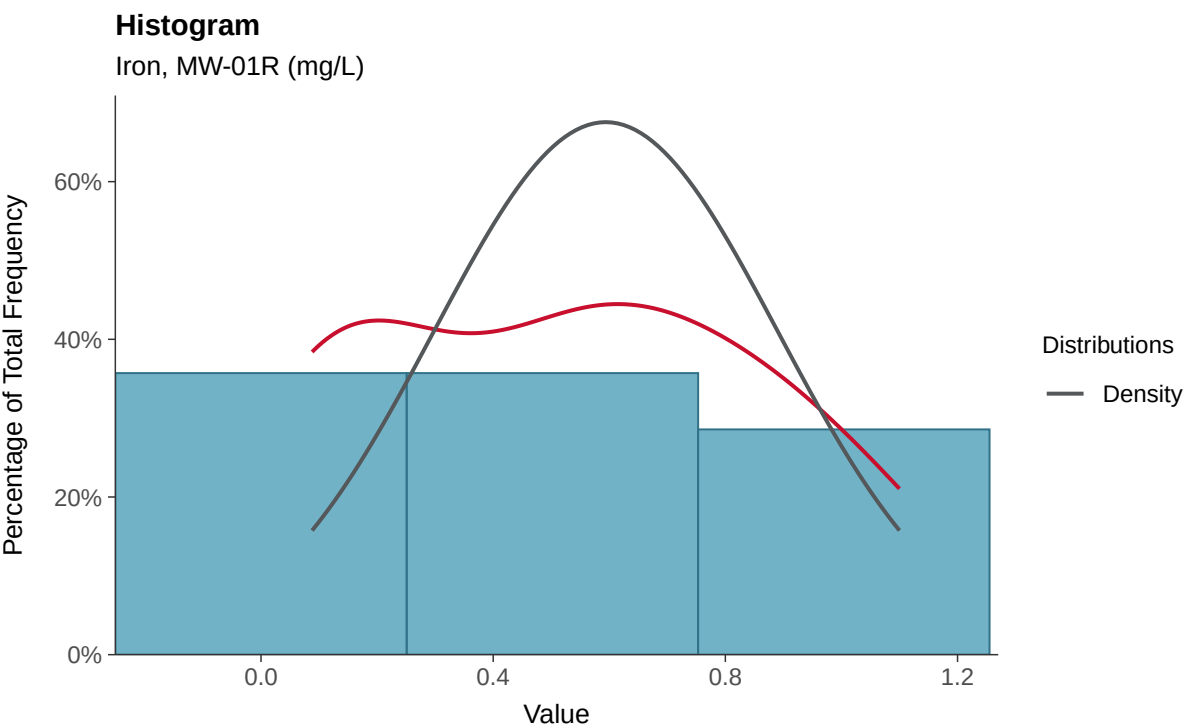
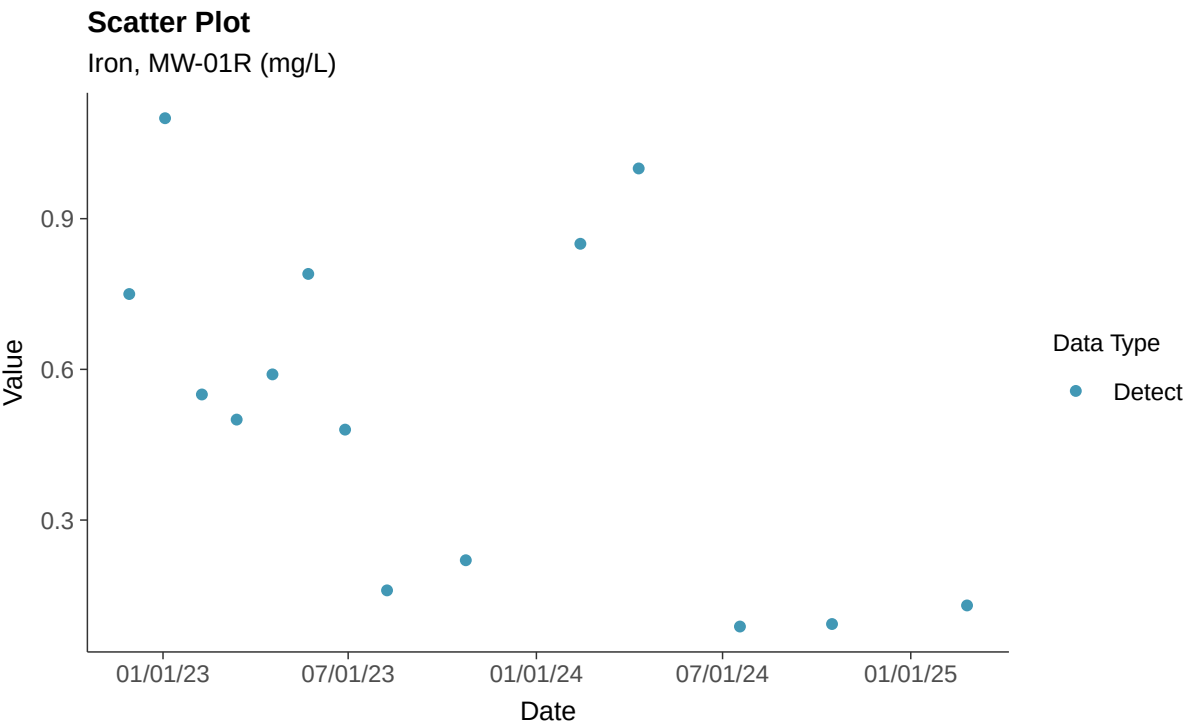


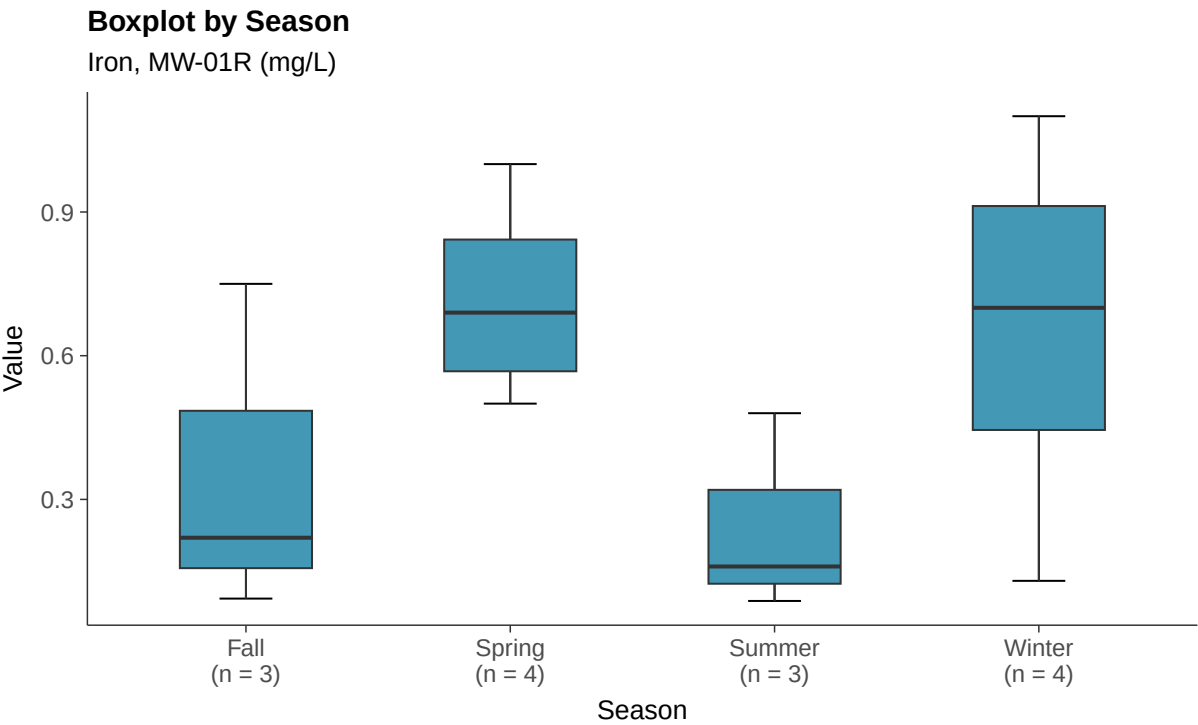
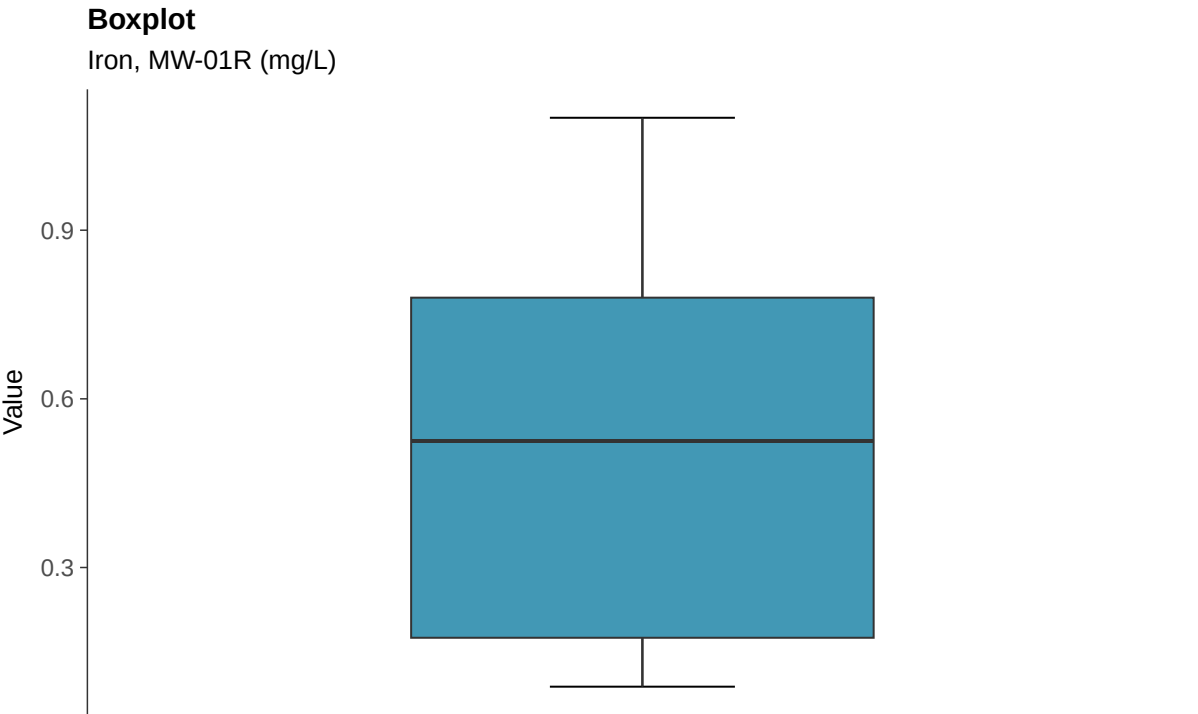


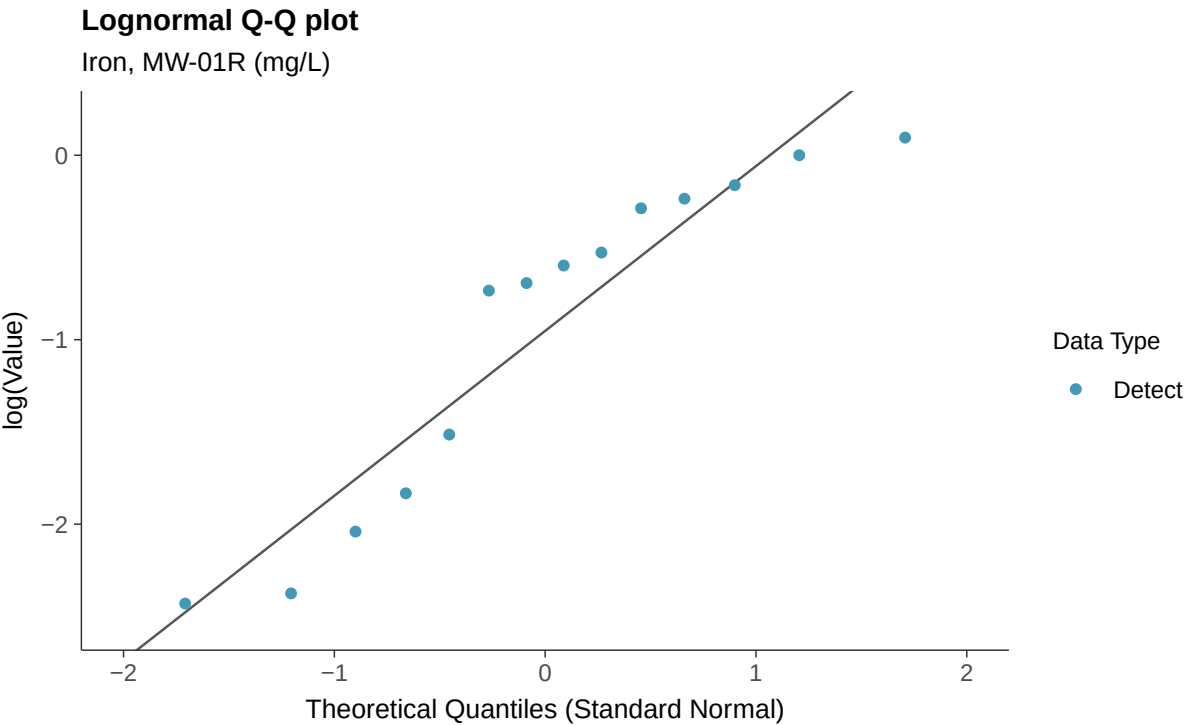
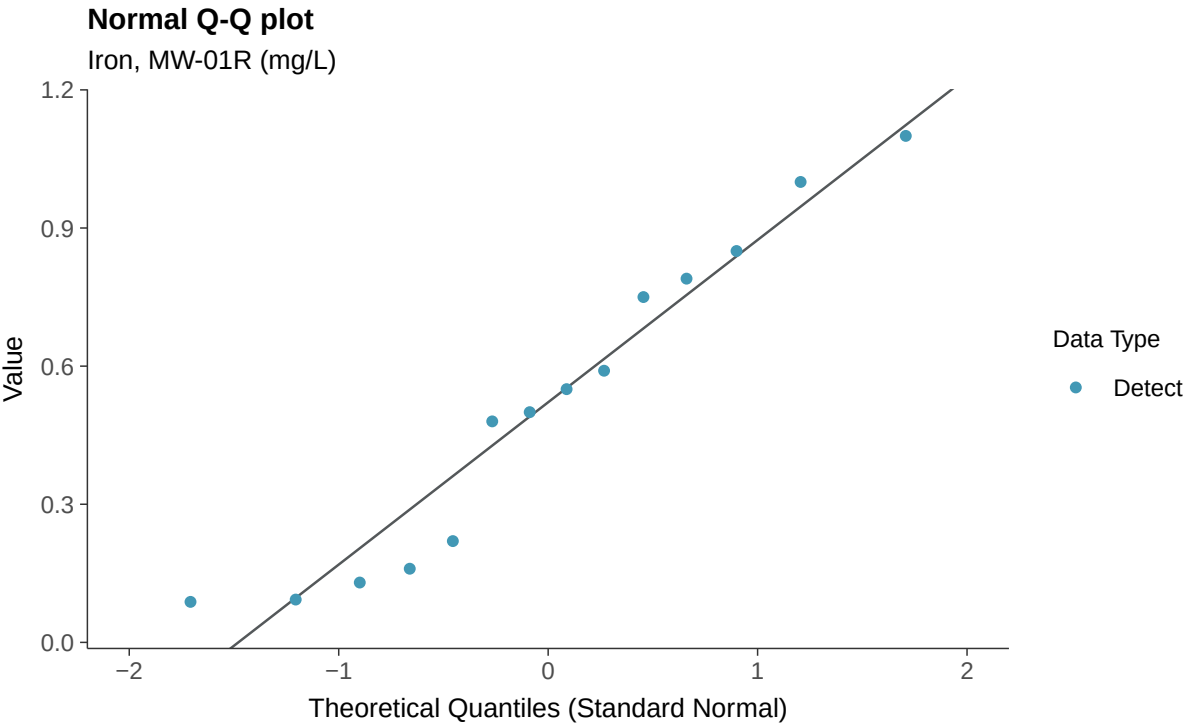


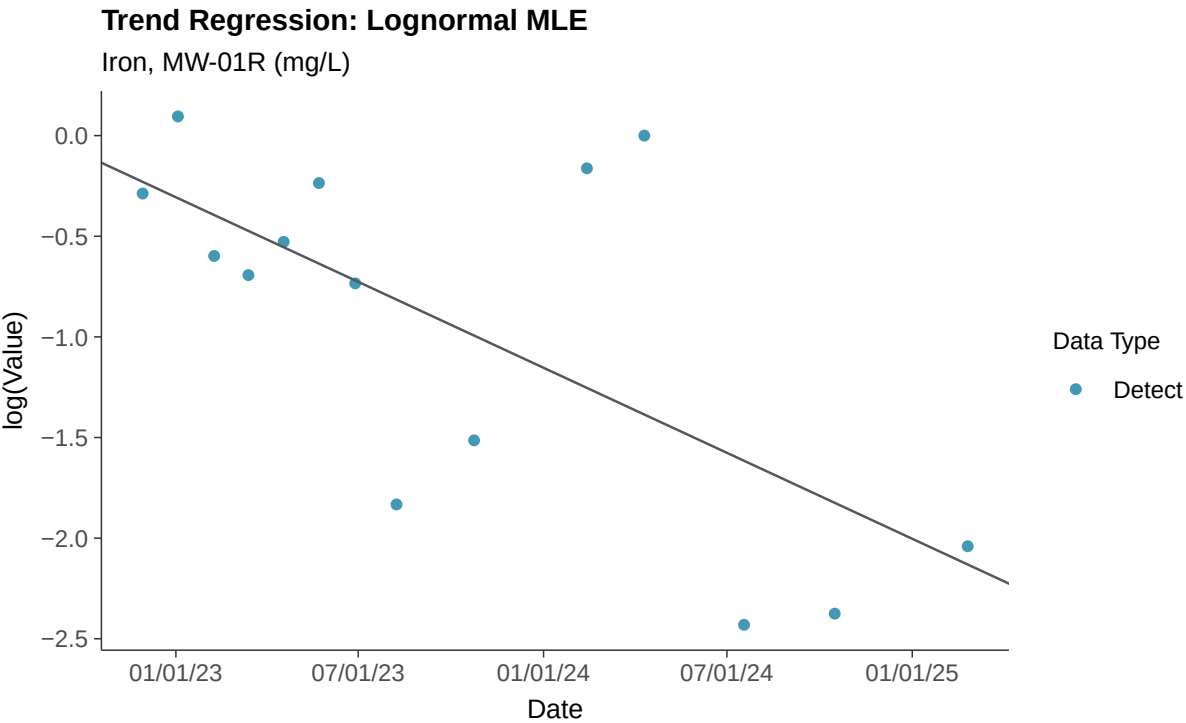
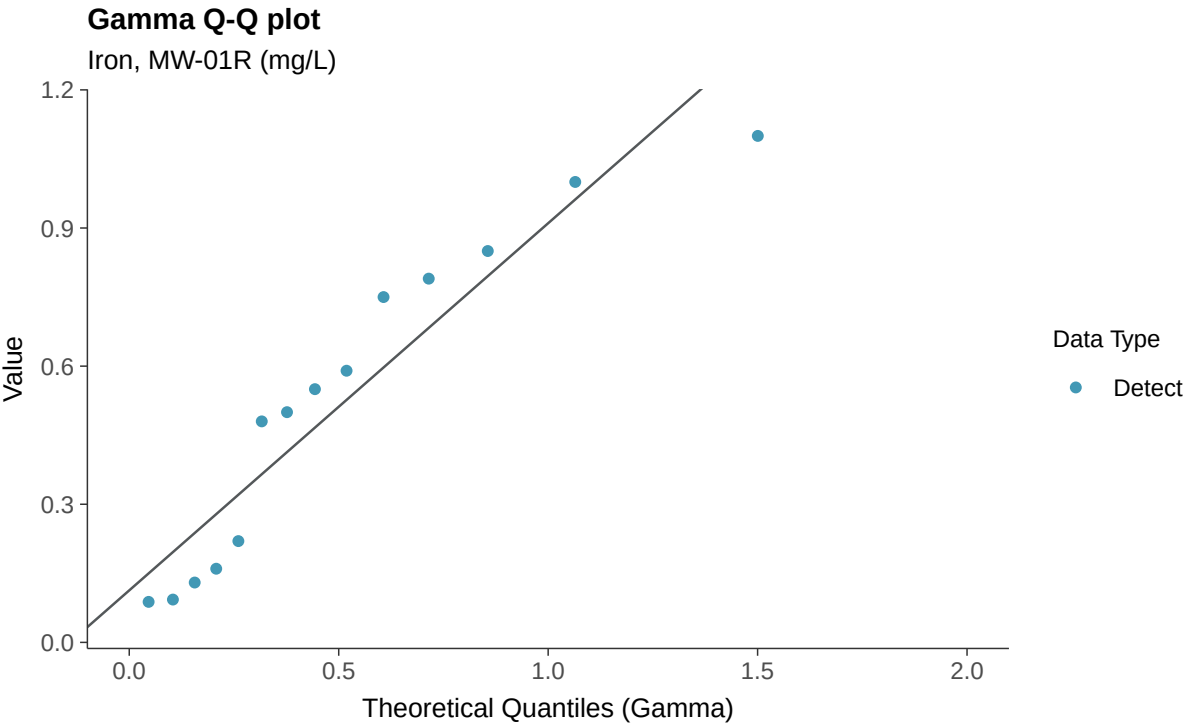
Part 115: Iron, MW-01R

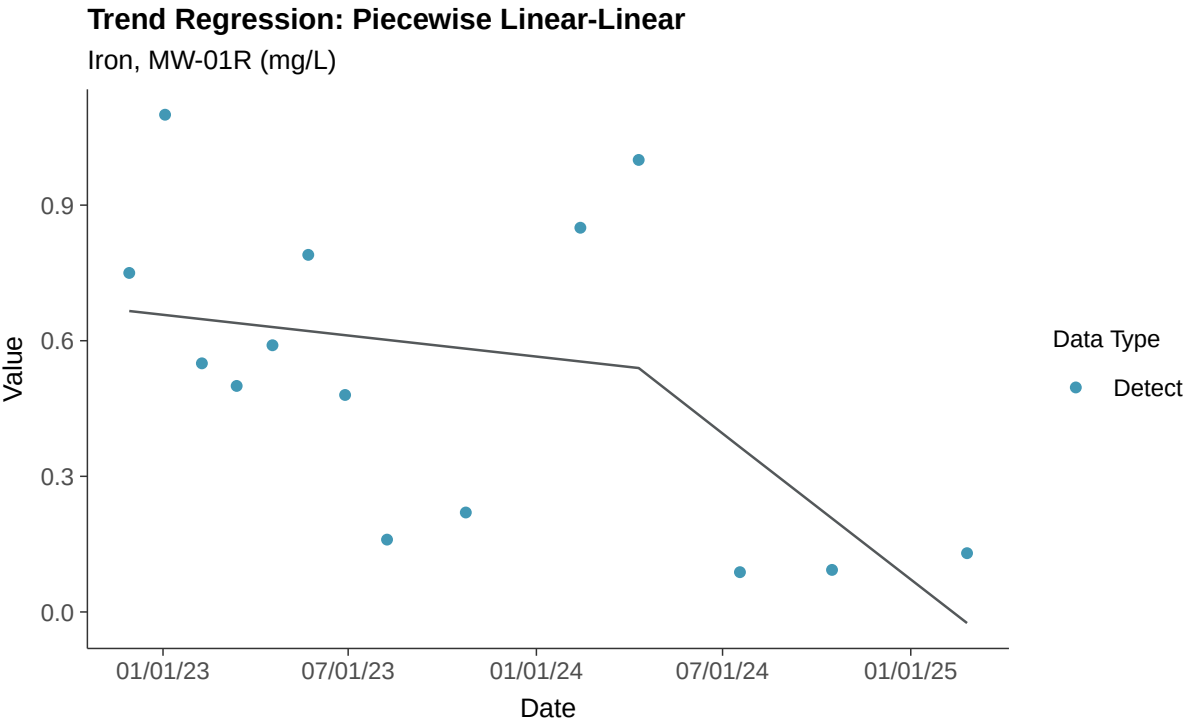
ID: 11_2_5_114







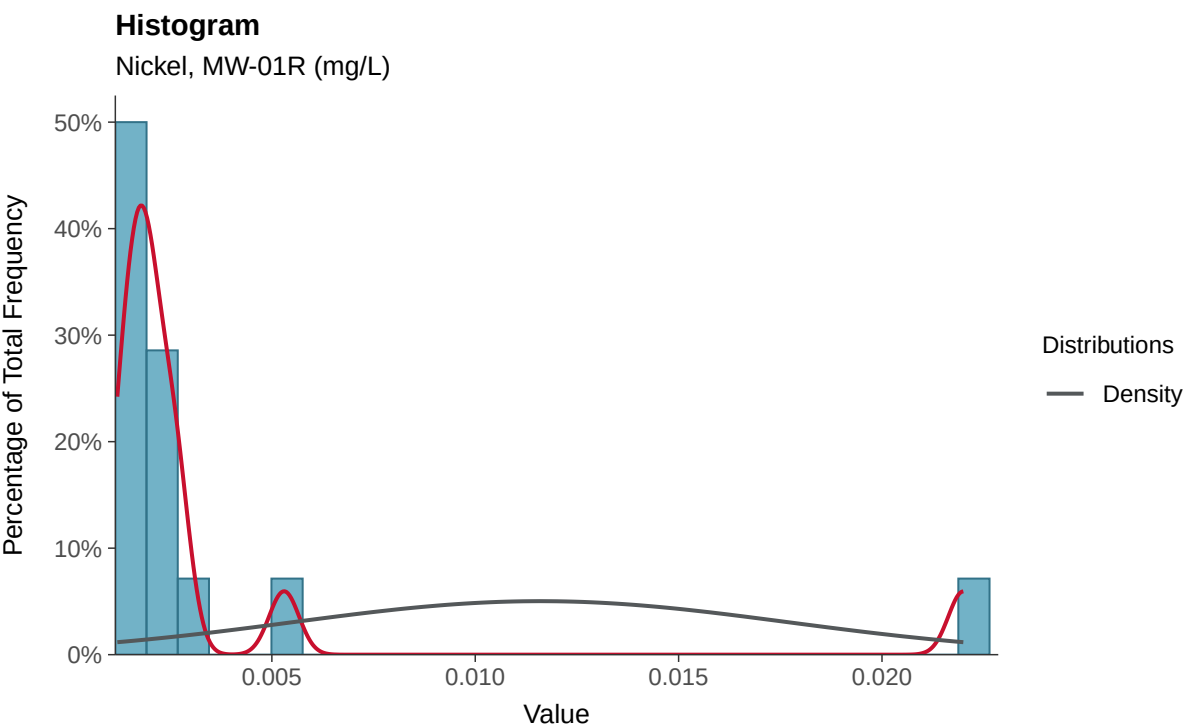
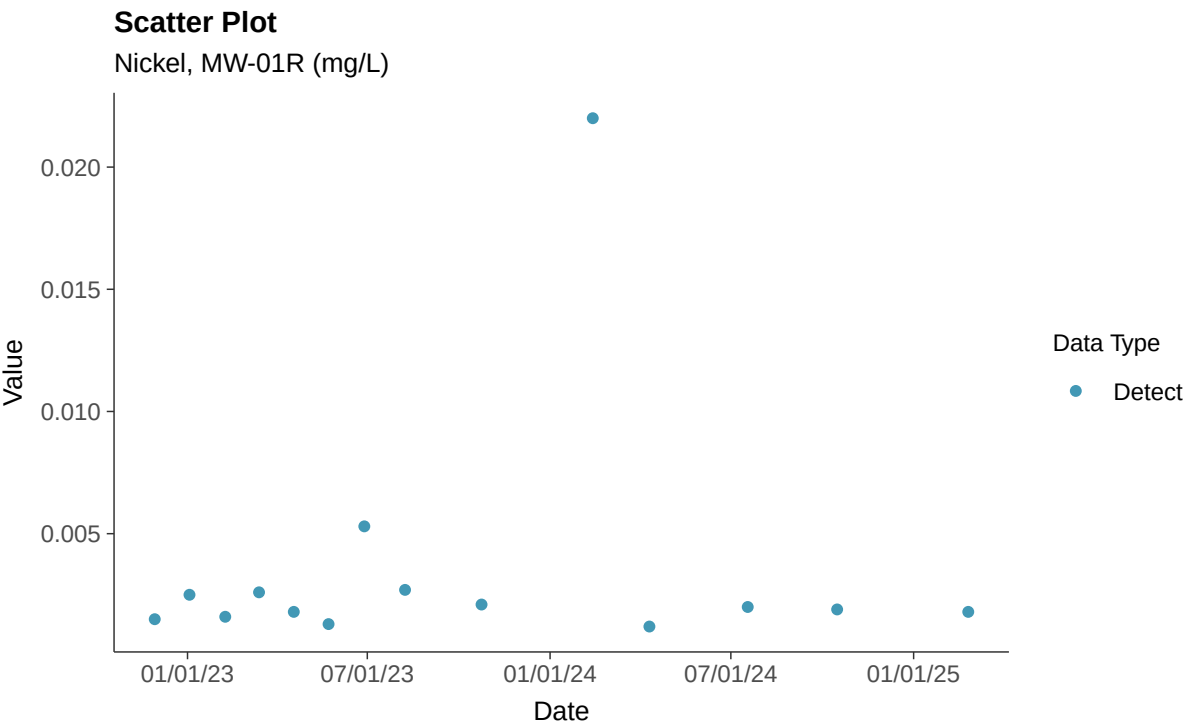


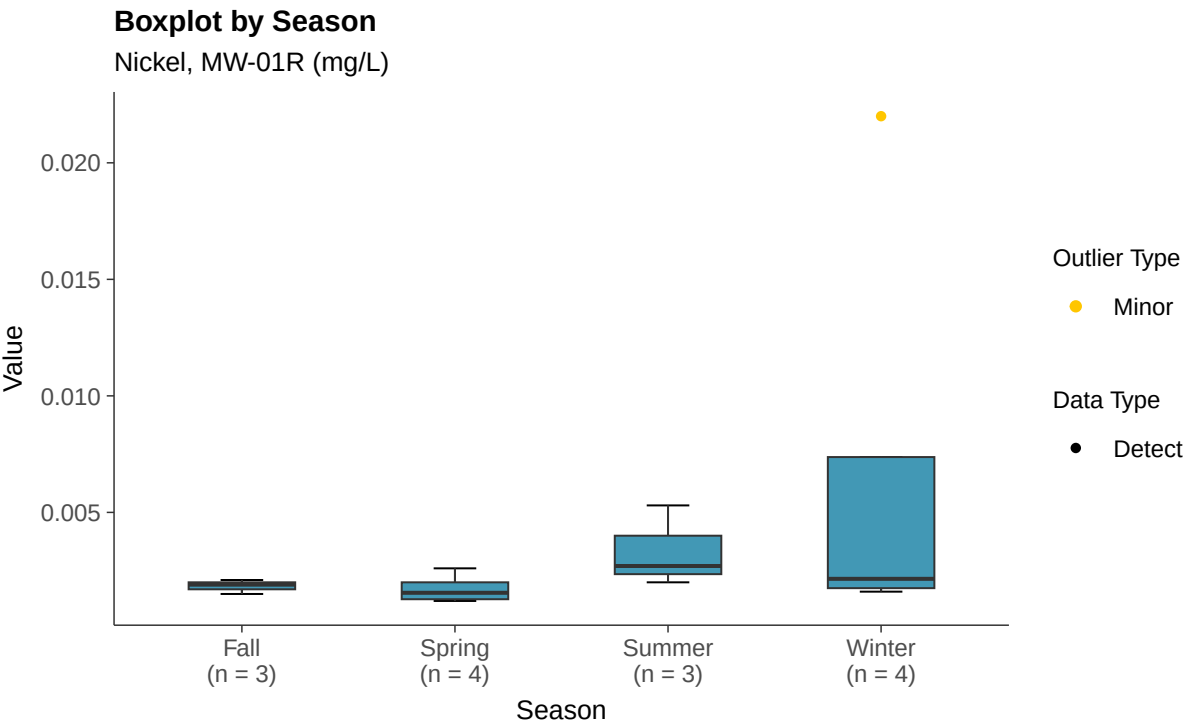
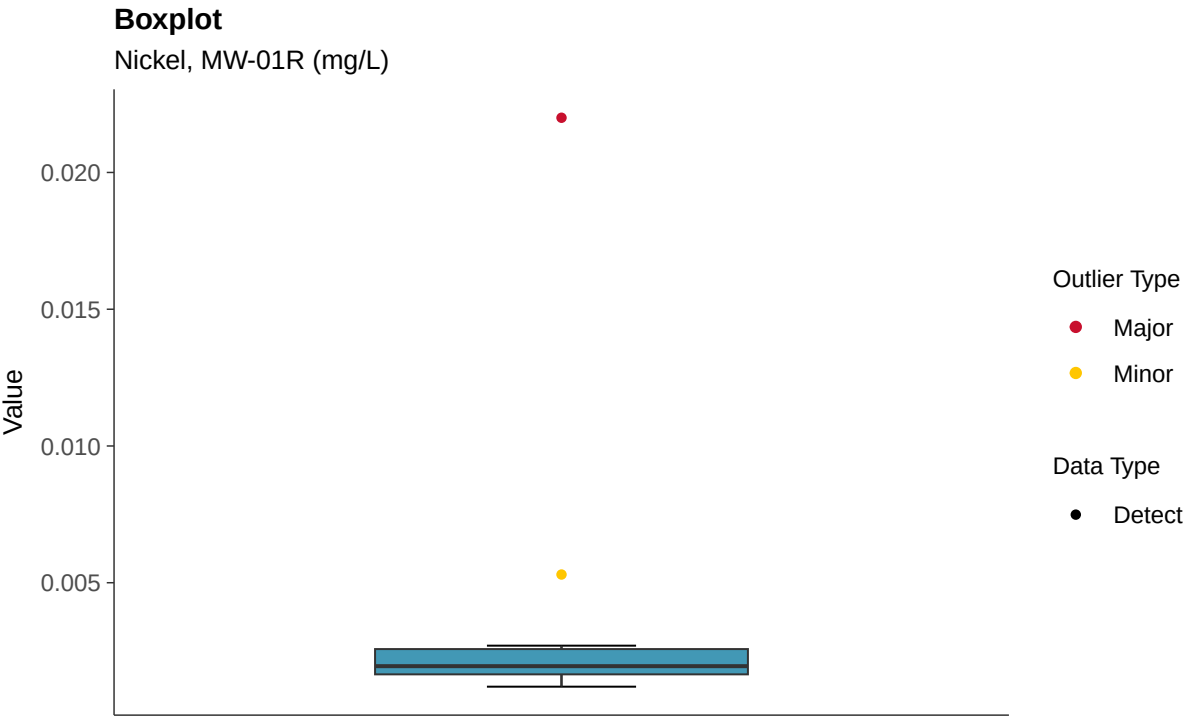


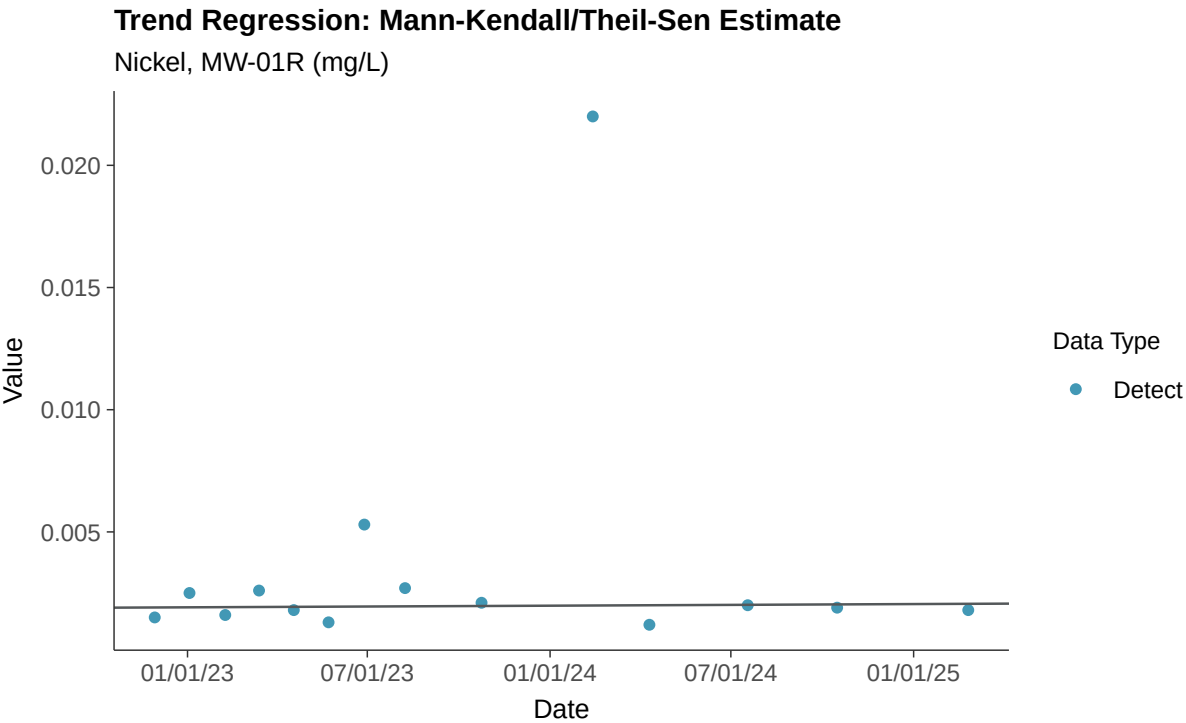
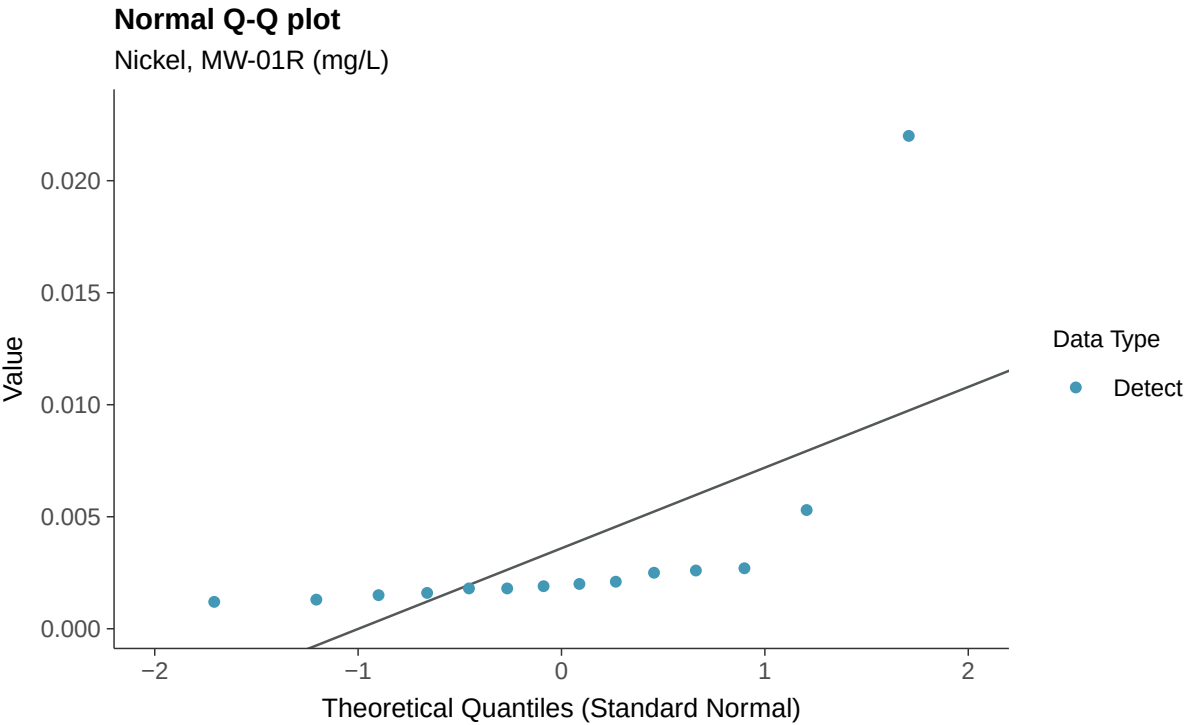


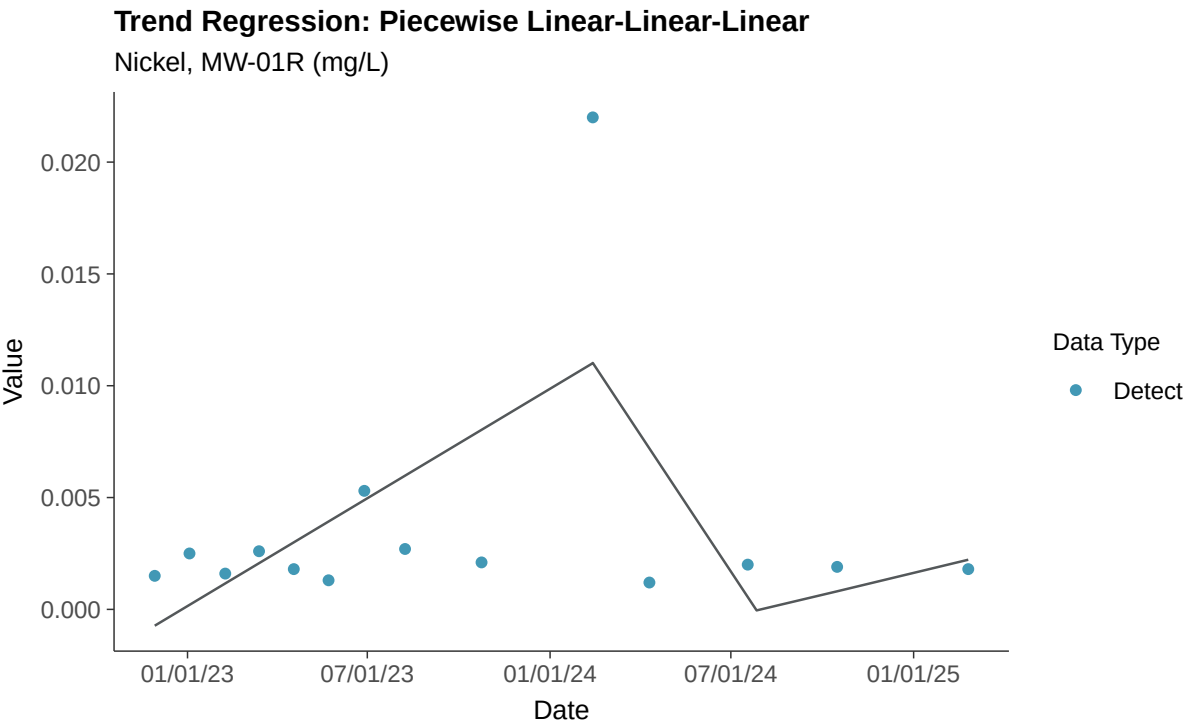
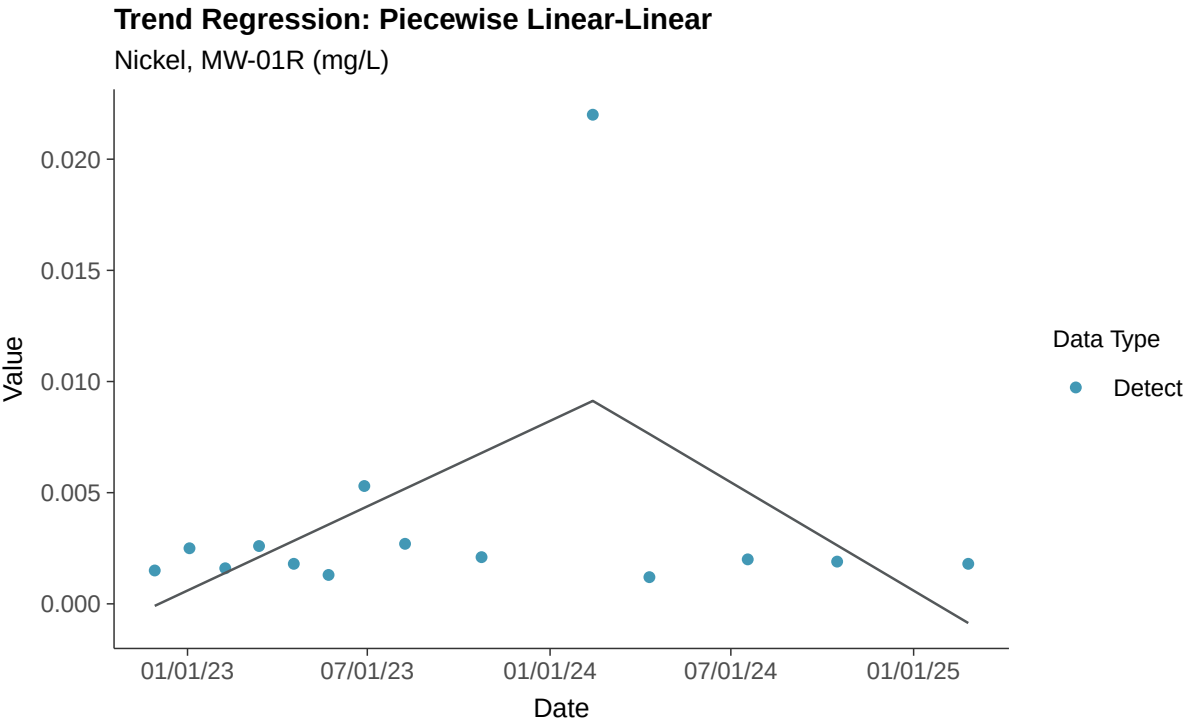
Part 115: Nickel, MW-01R

ID: 11_2_5_119





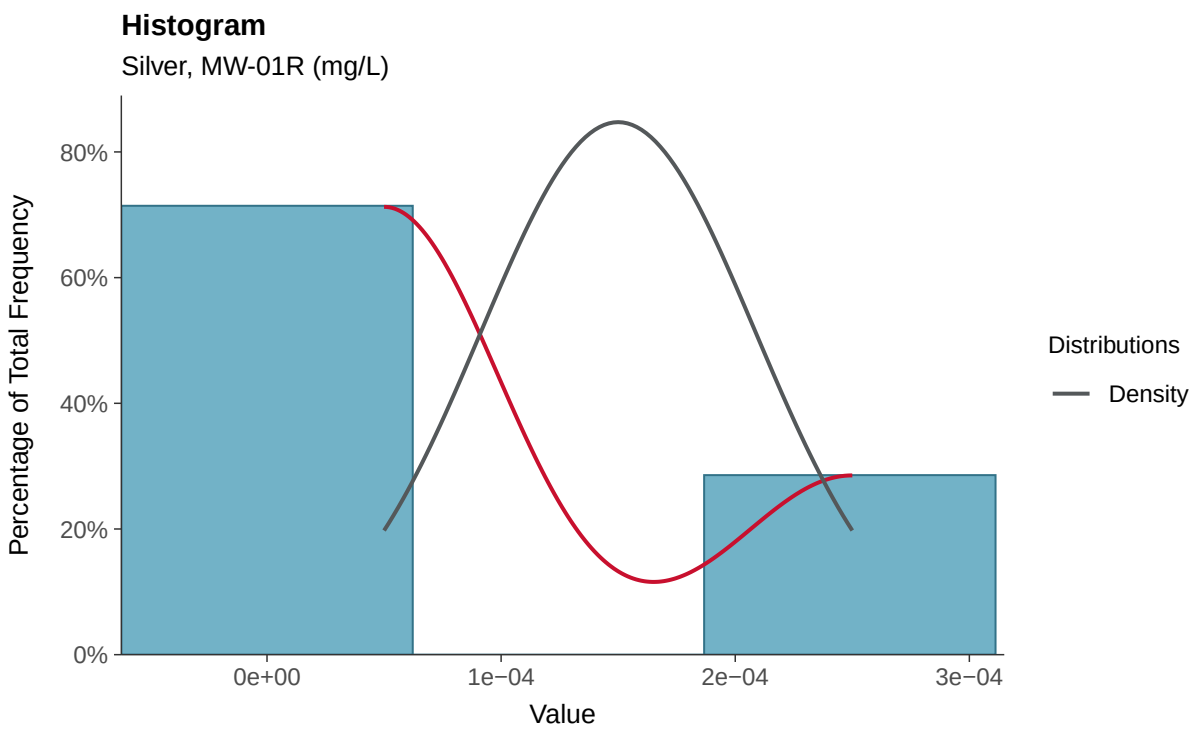
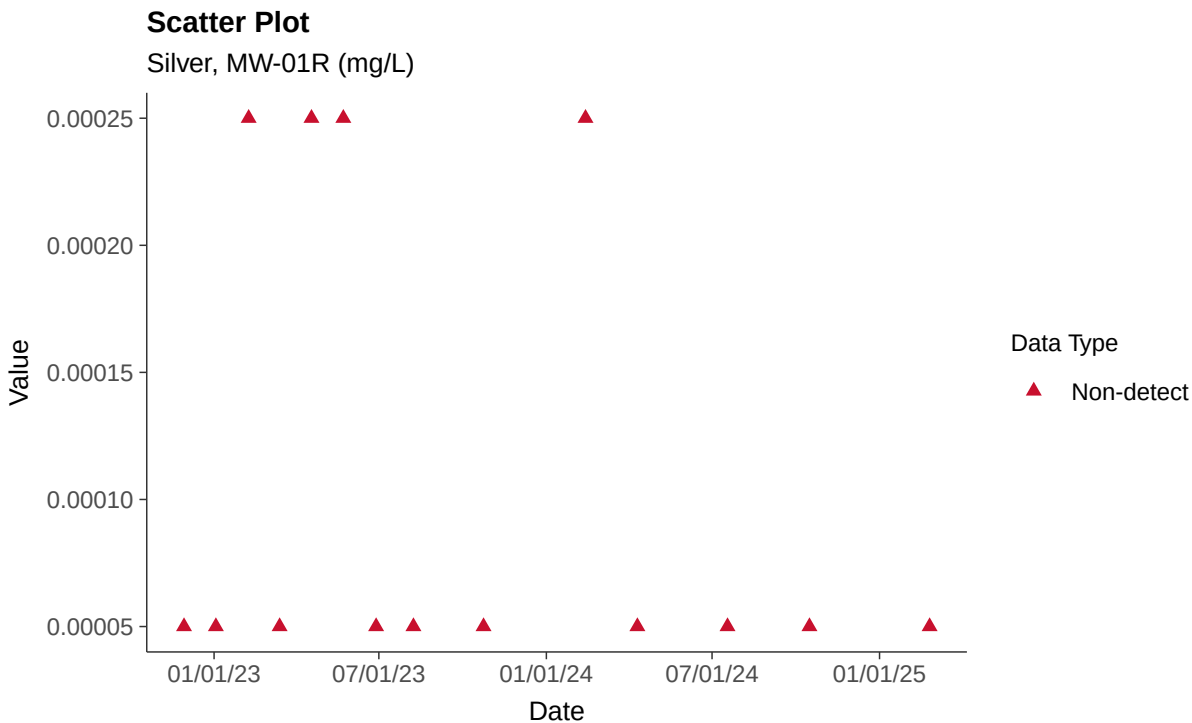


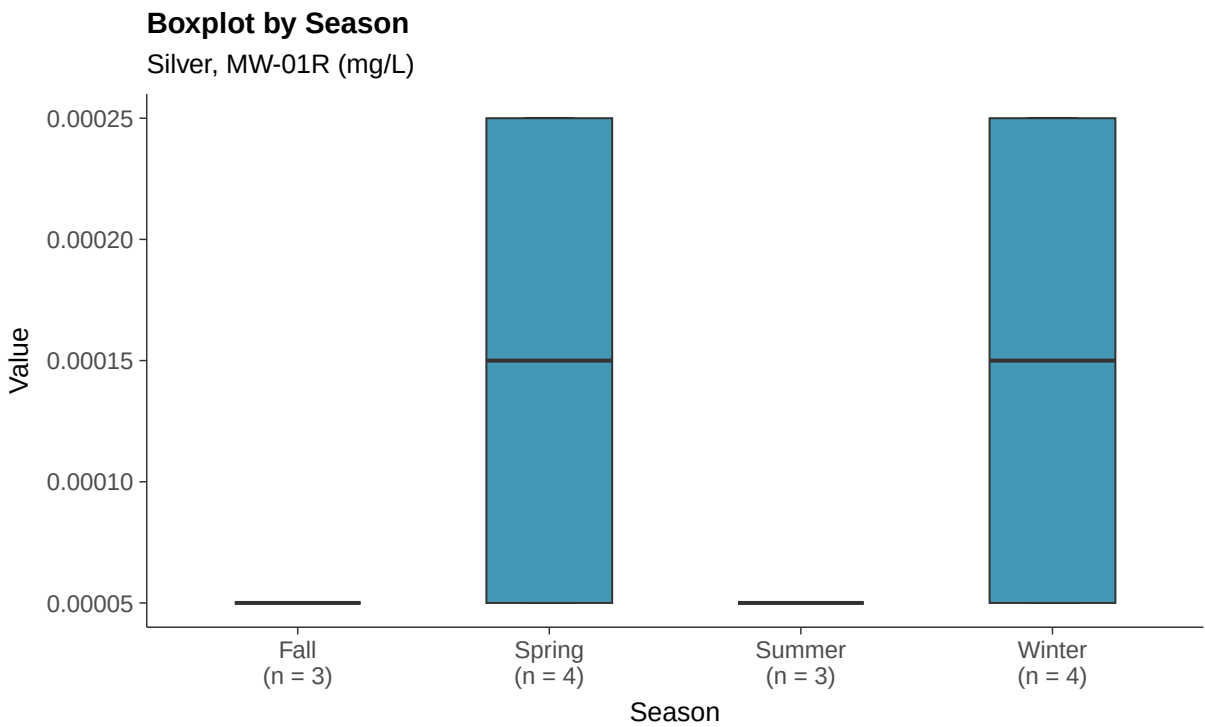
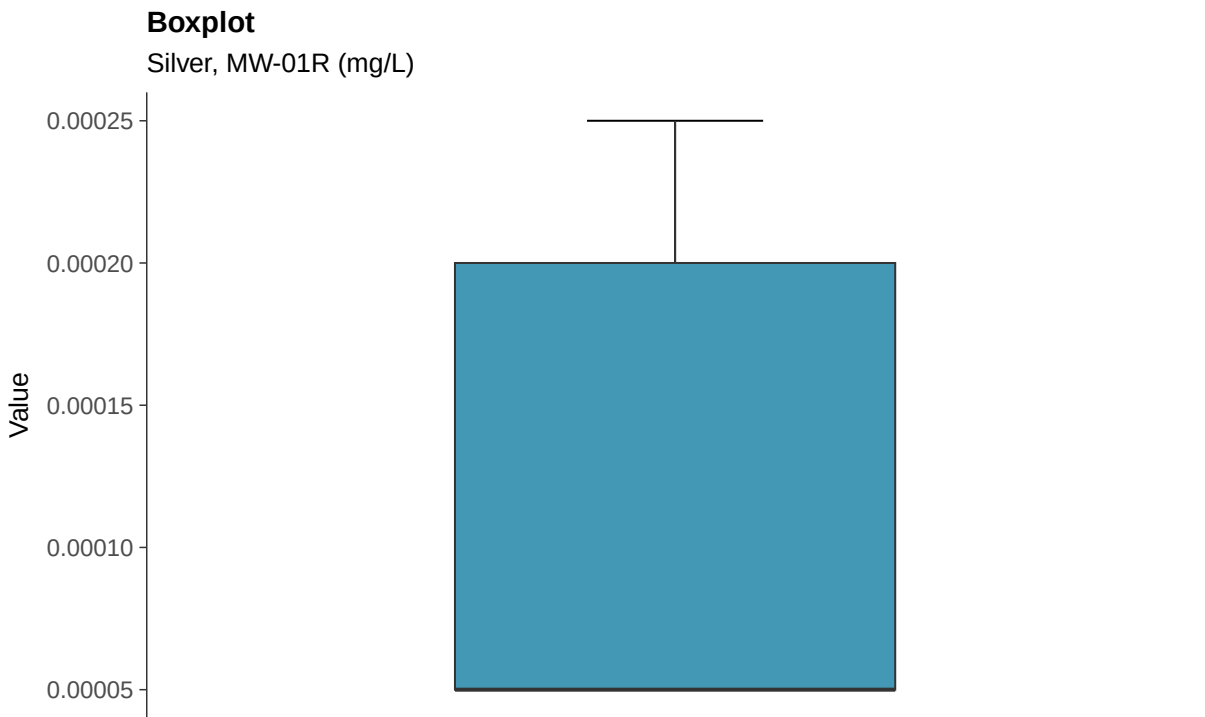


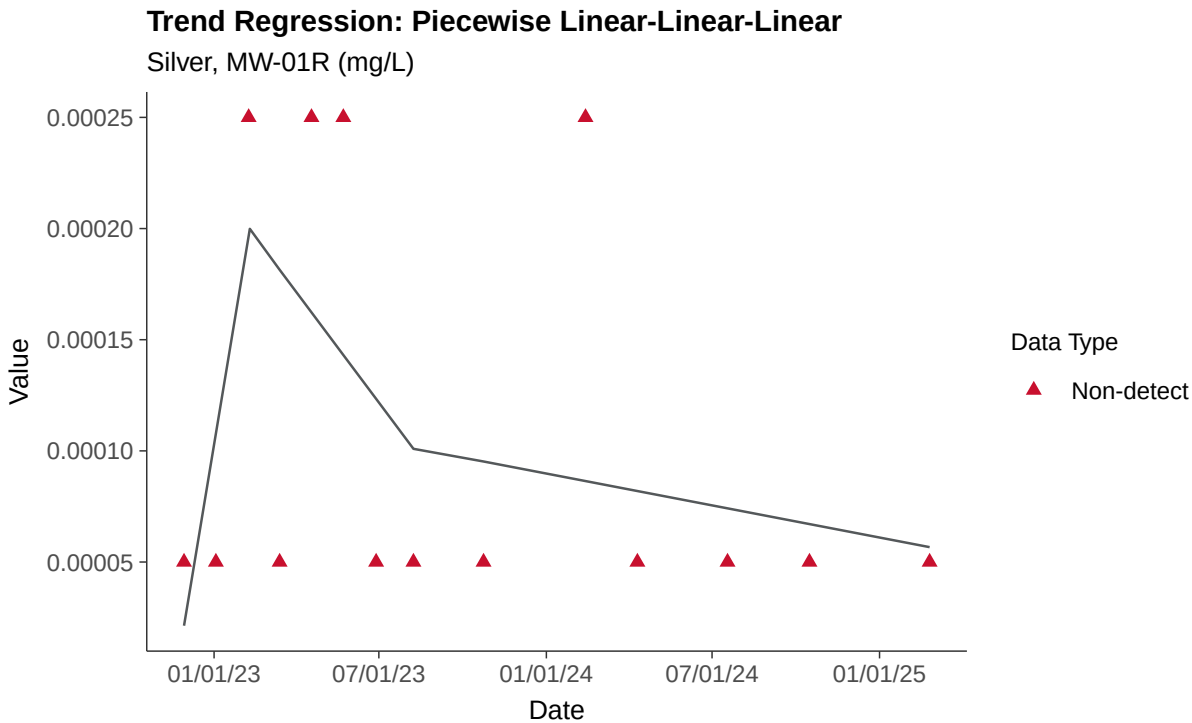
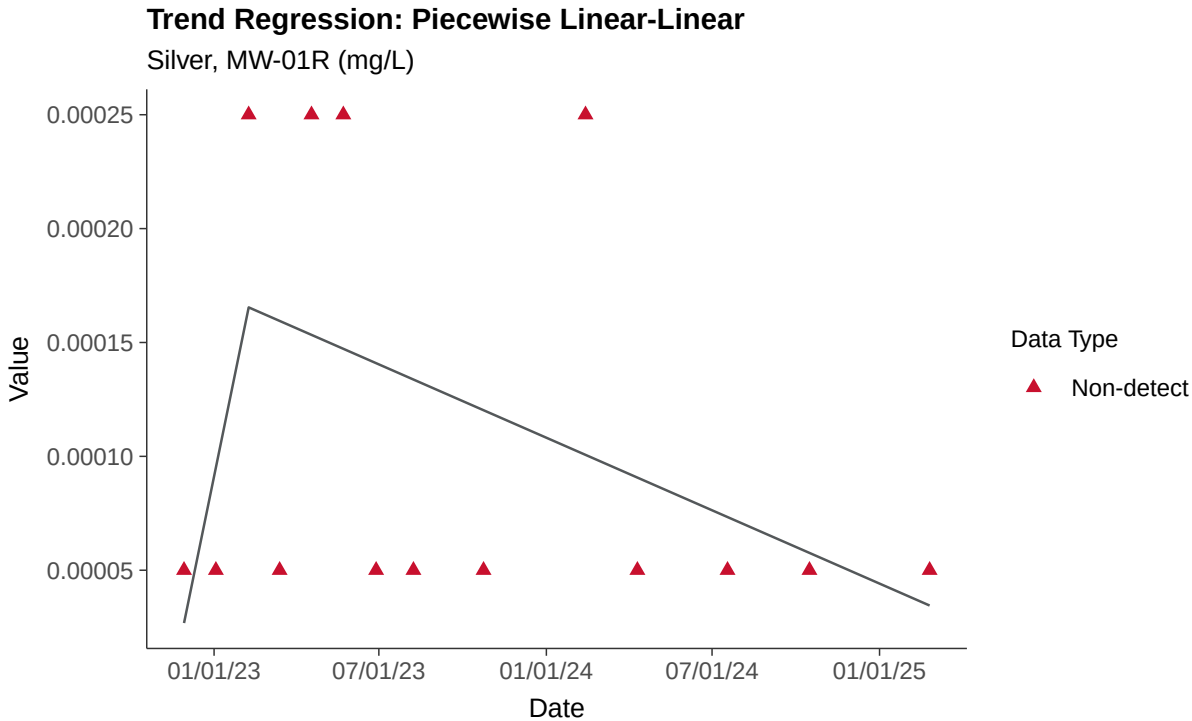


Part 115: Silver, MW-01R

ID: 11_2_5_123



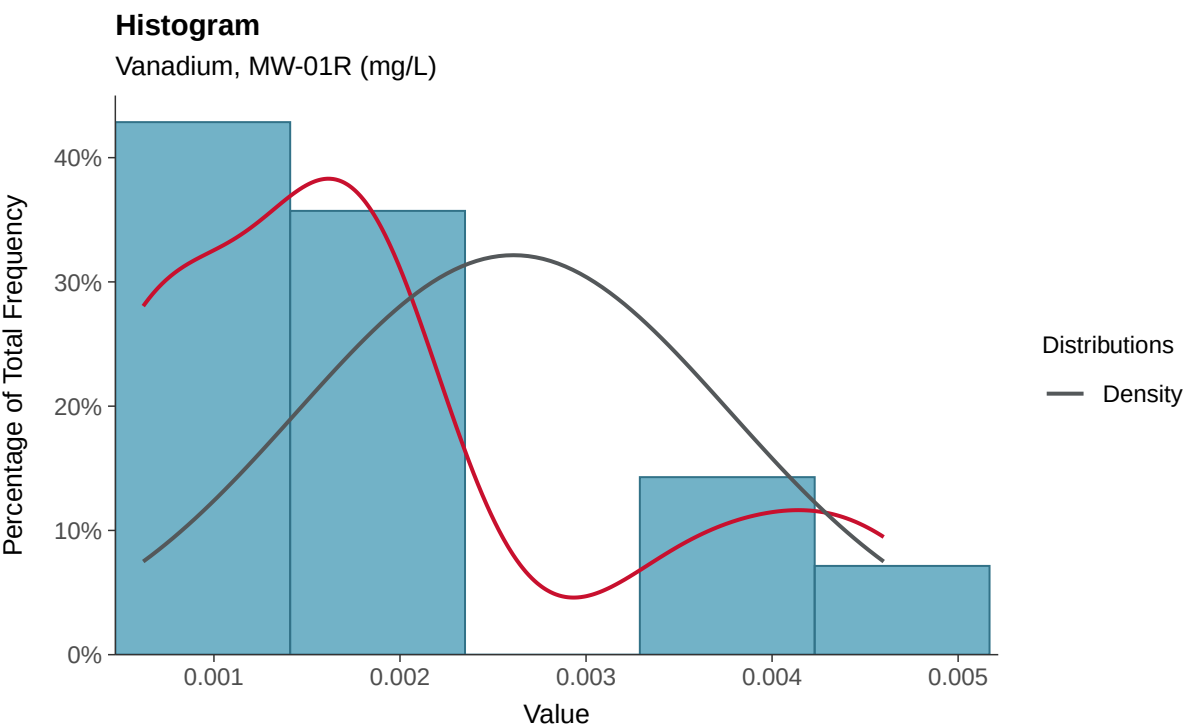
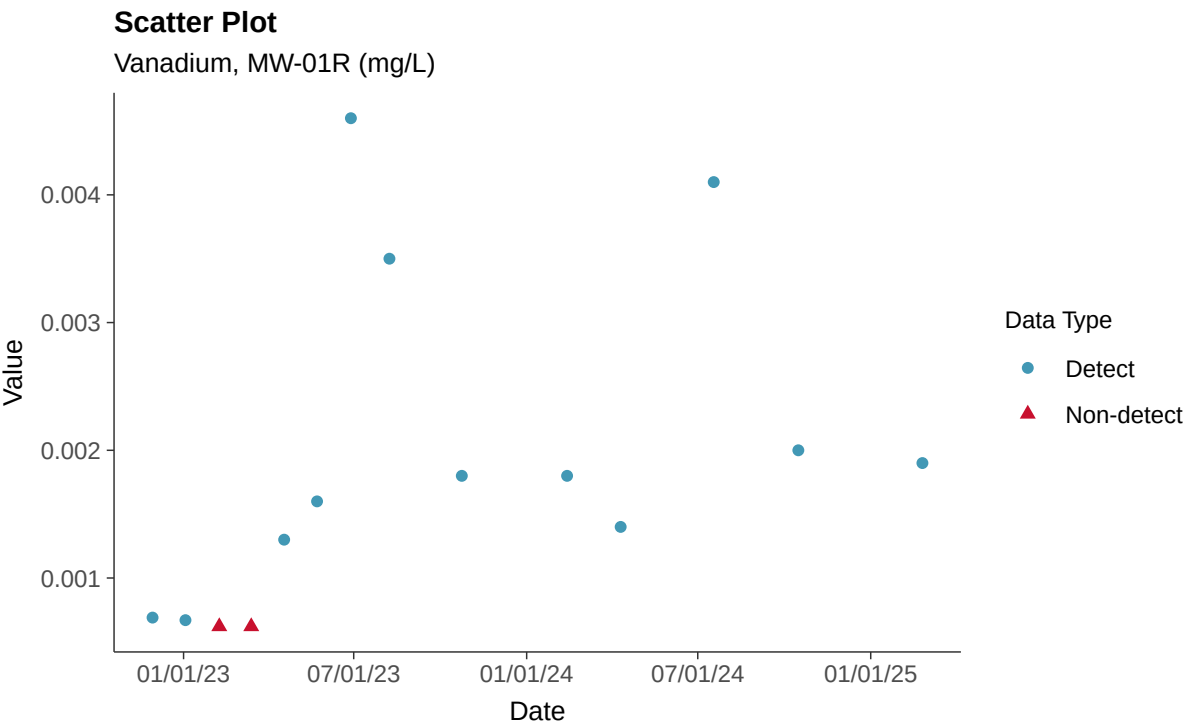


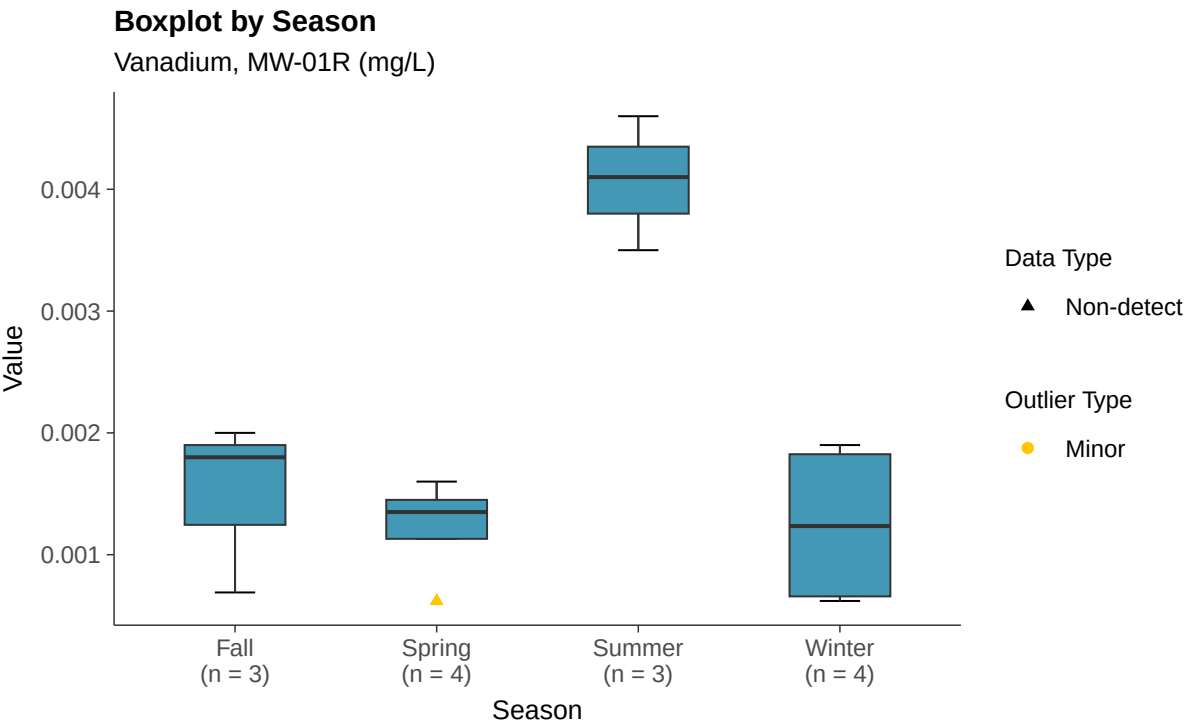
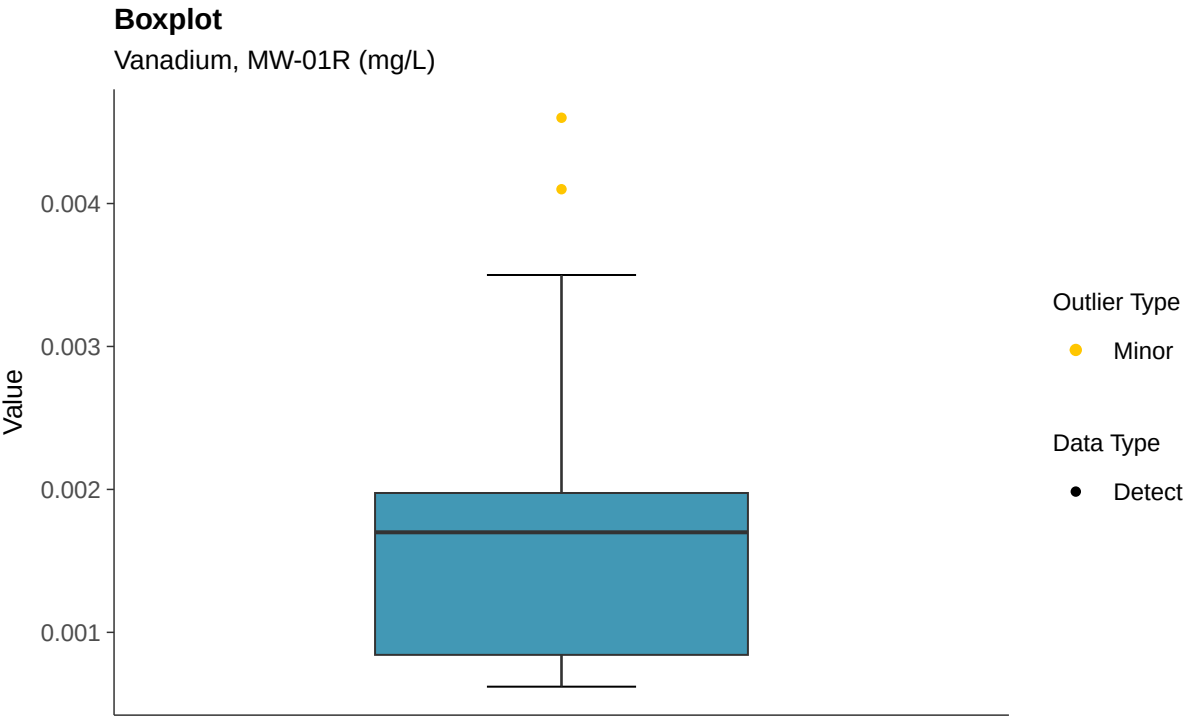


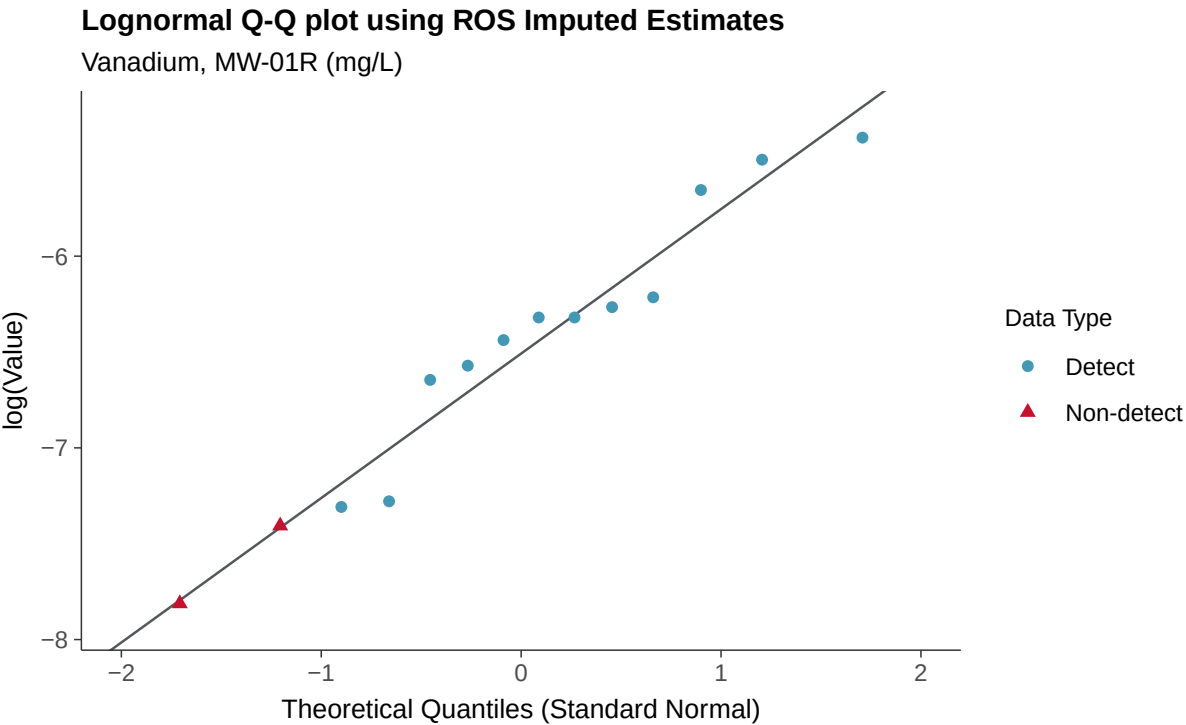
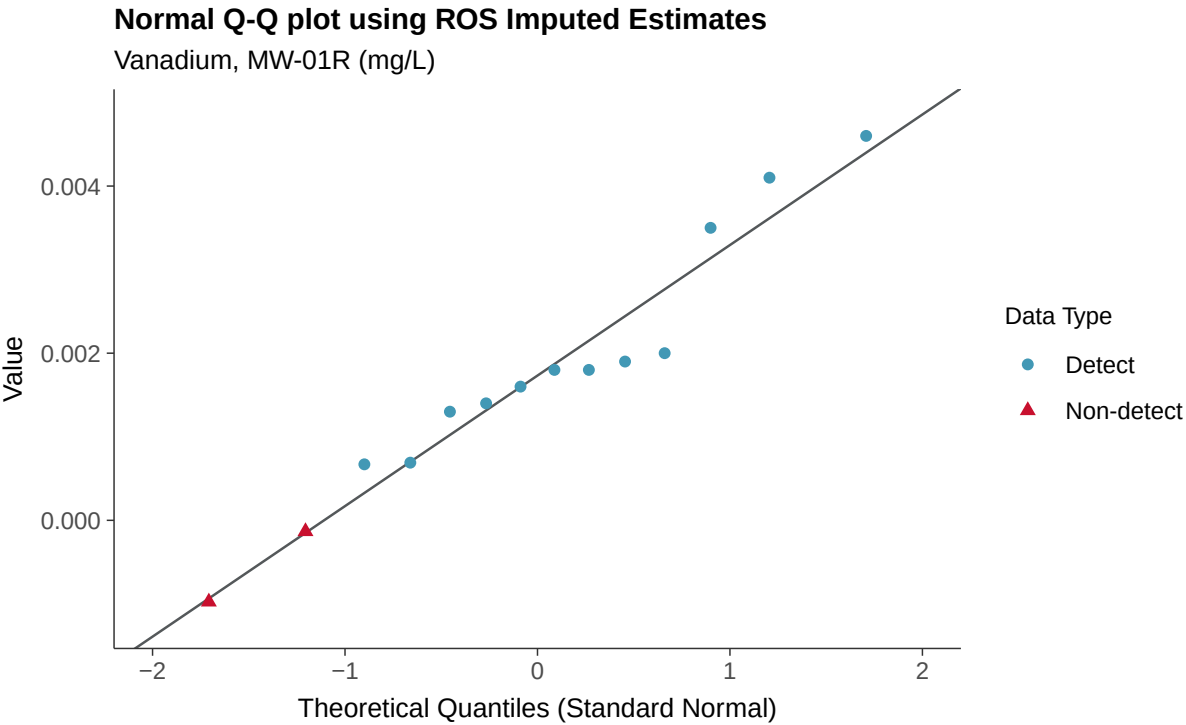


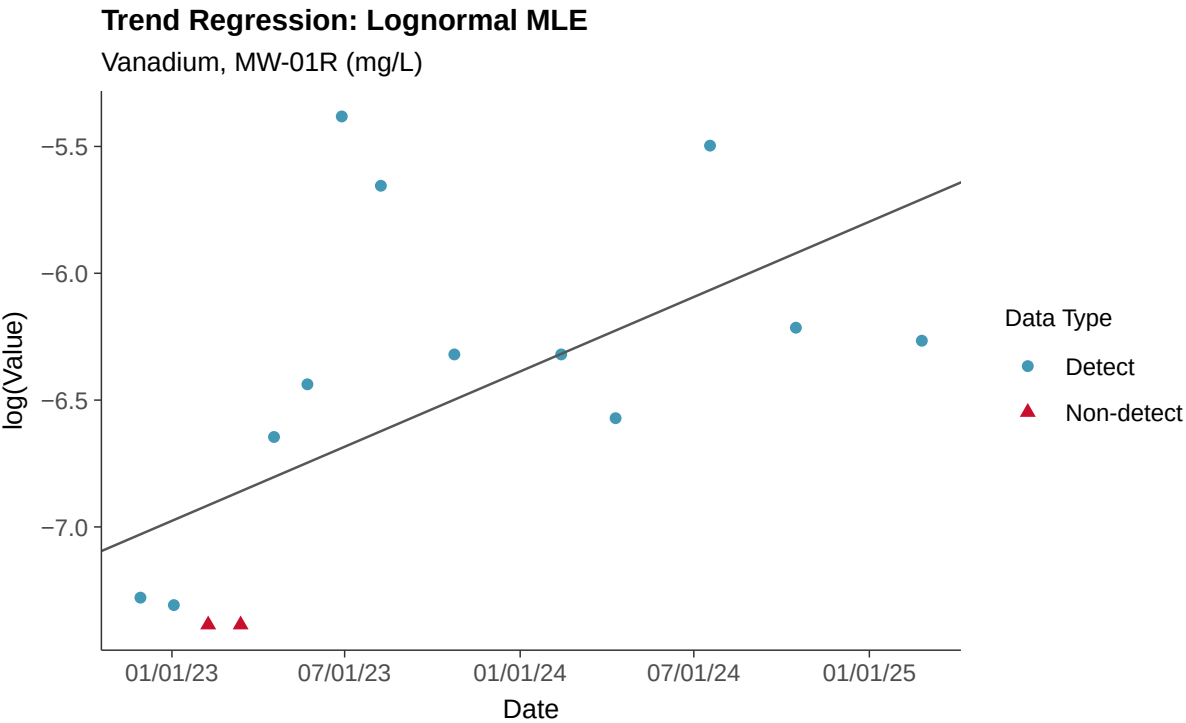
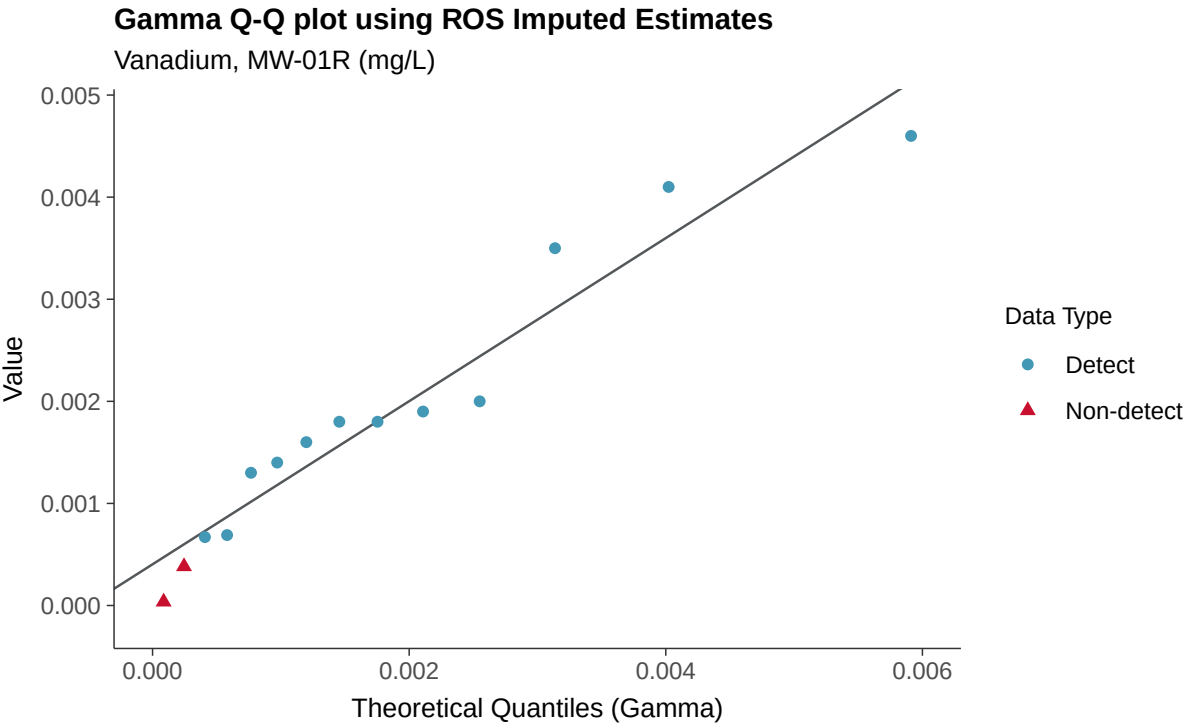
Part 115: Vanadium, MW-01R

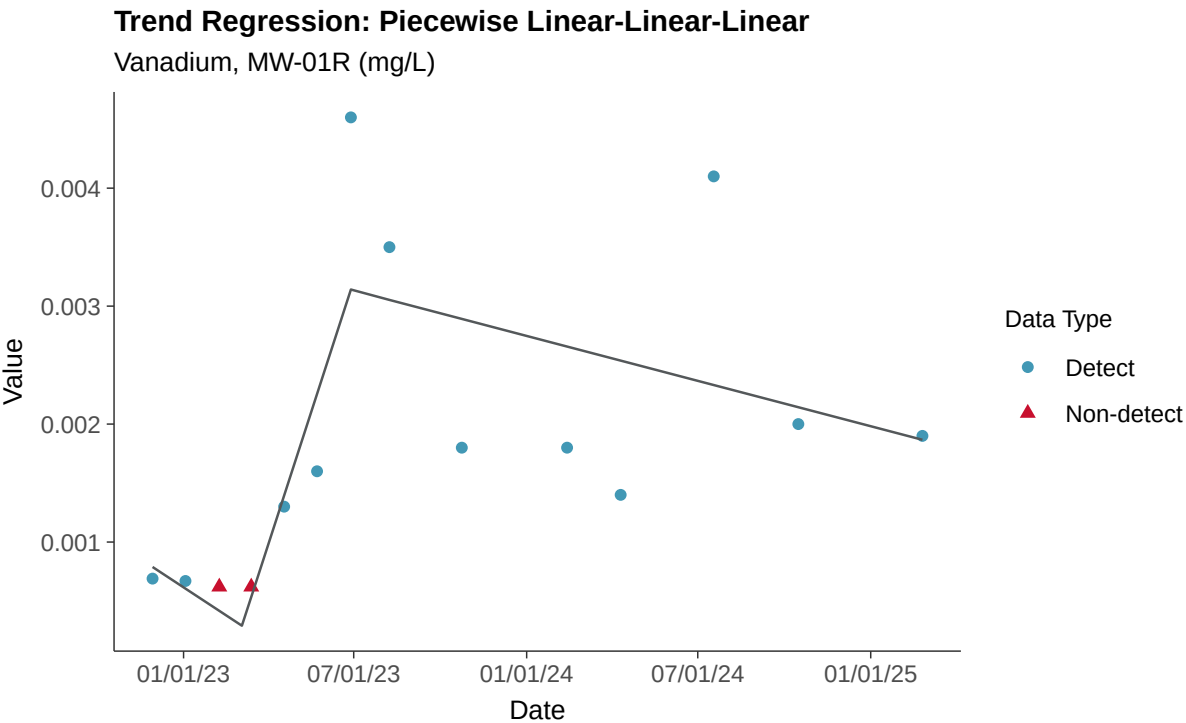
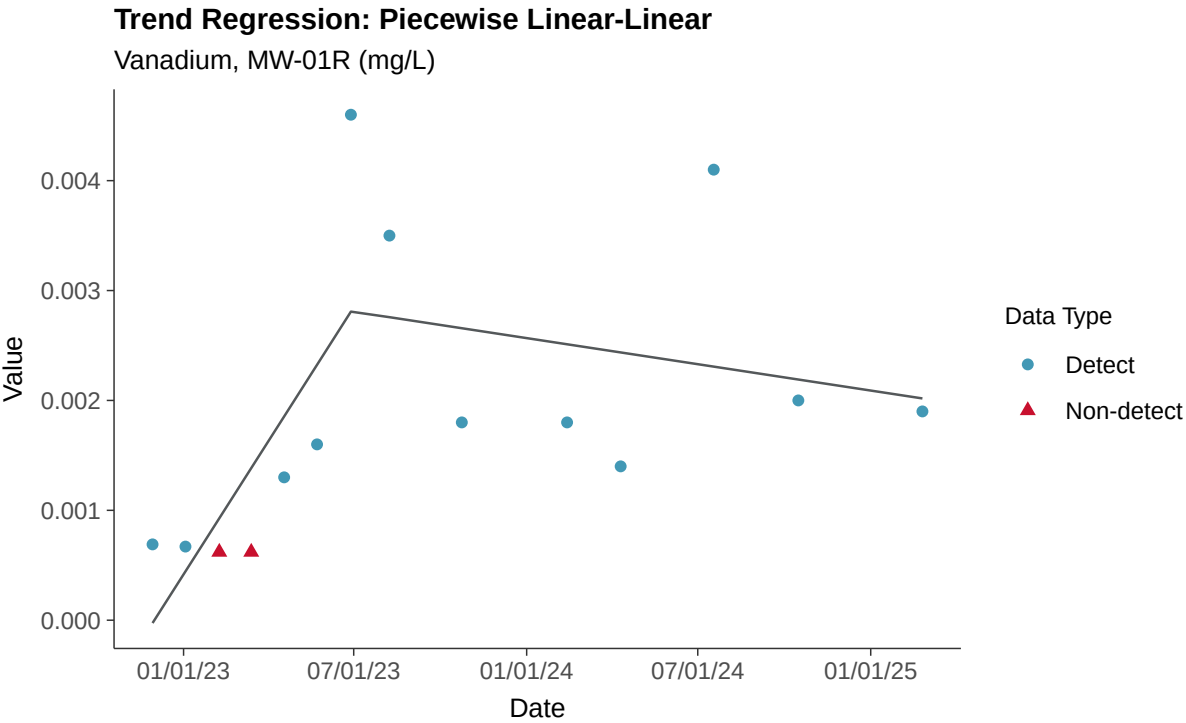
ID: 11_2_5_128







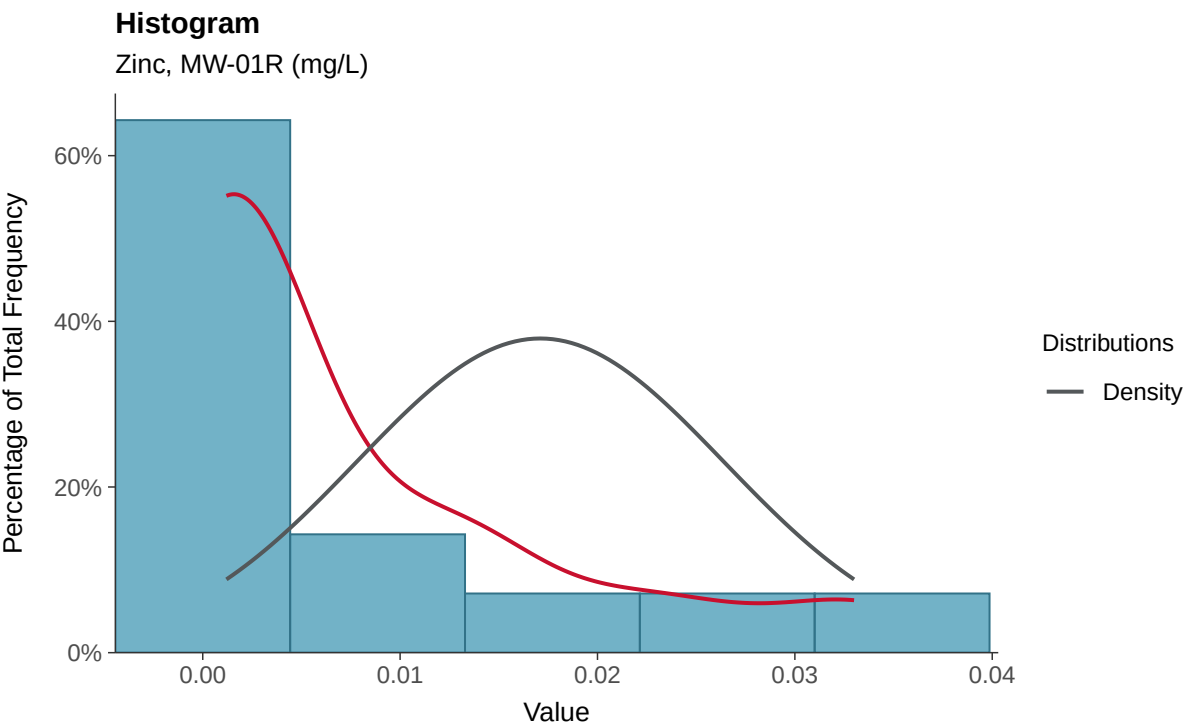
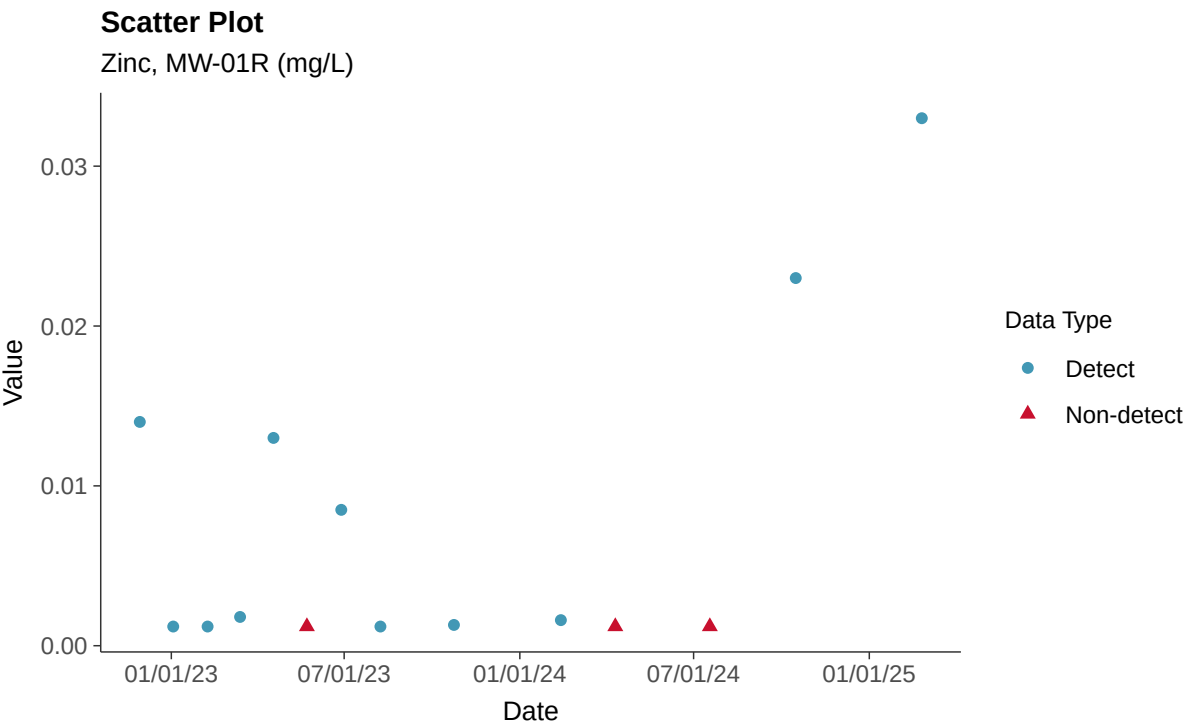


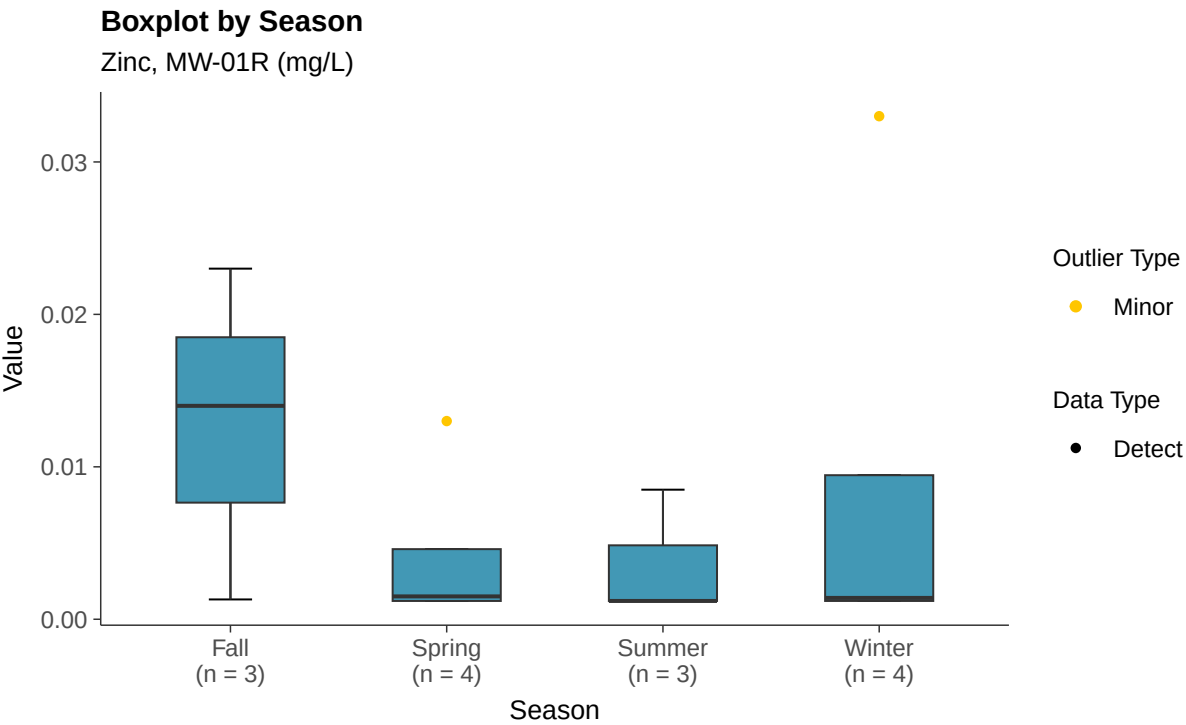
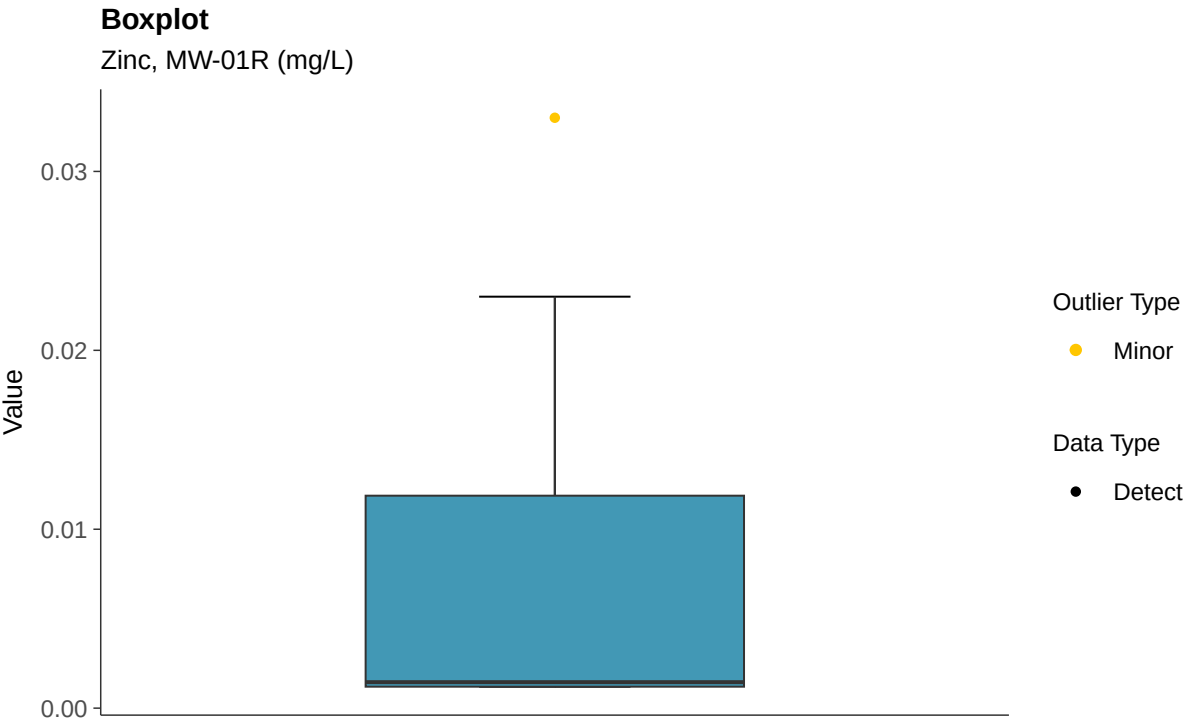




Part 115: Zinc, MW-01R

ID: 11_2_5_129

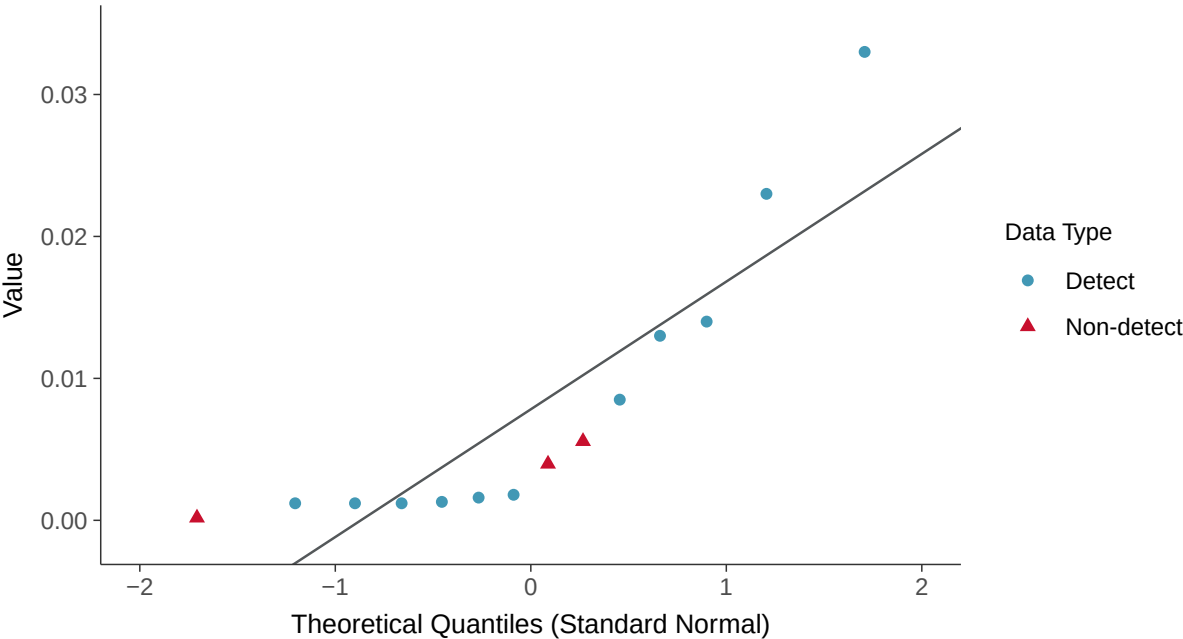






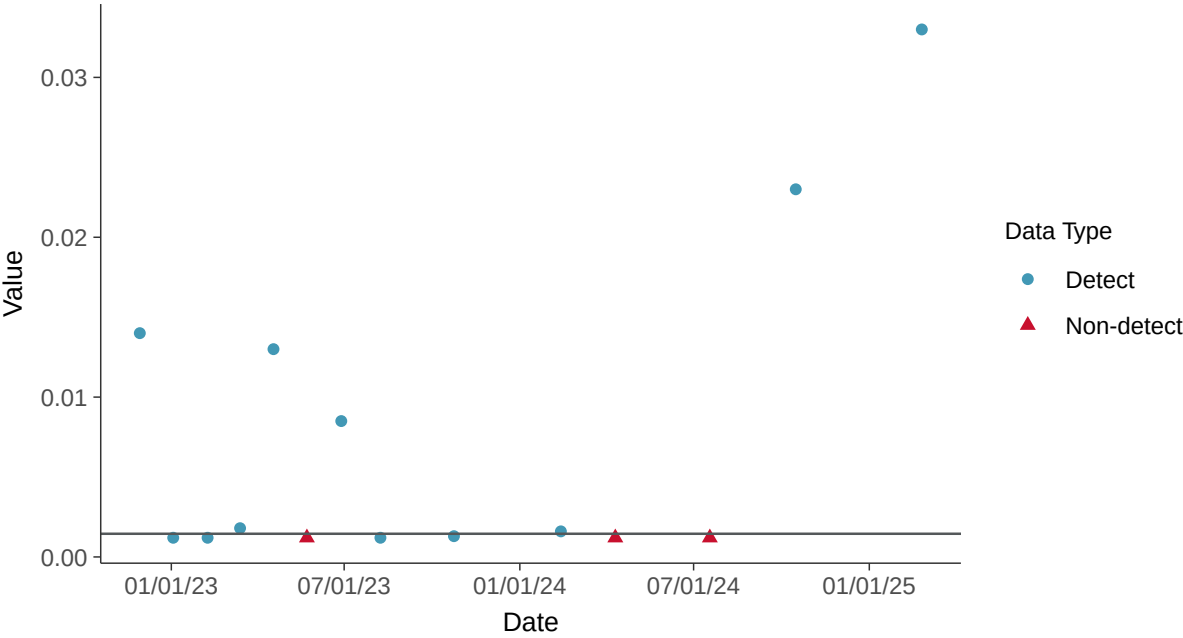
Normal Q-Q plot using ROS Imputed Estimates

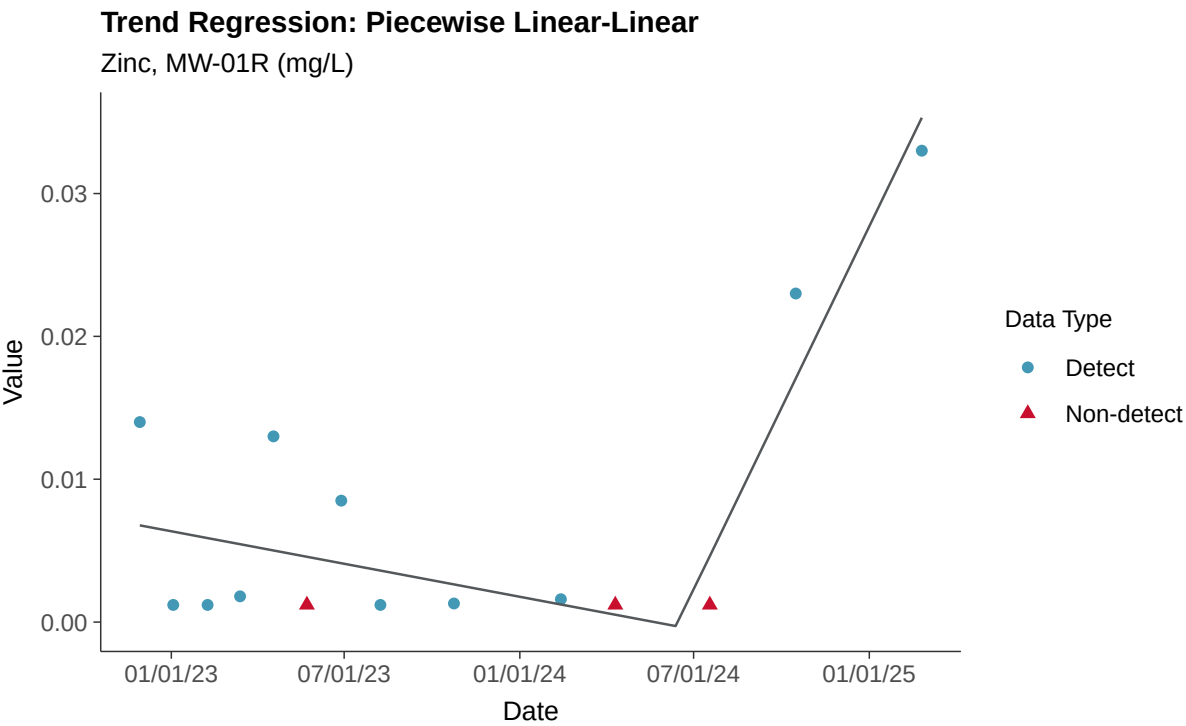
Zinc, MW-01R (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-01R (mg/L)

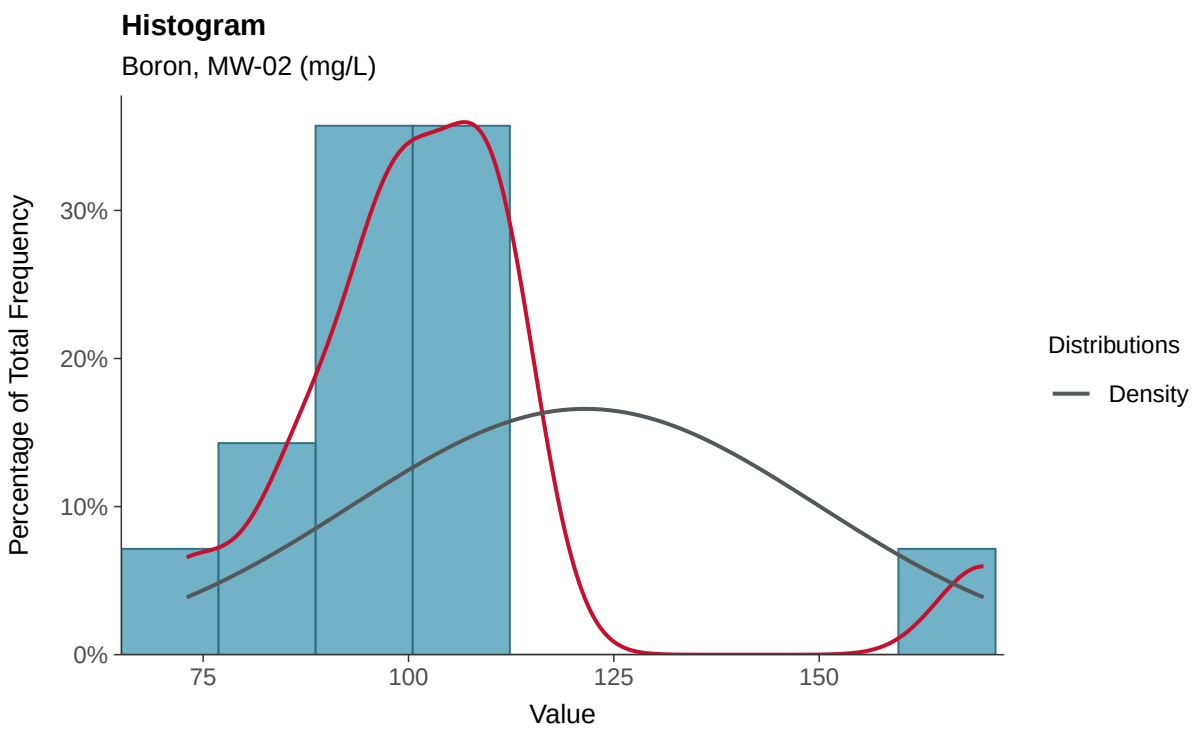
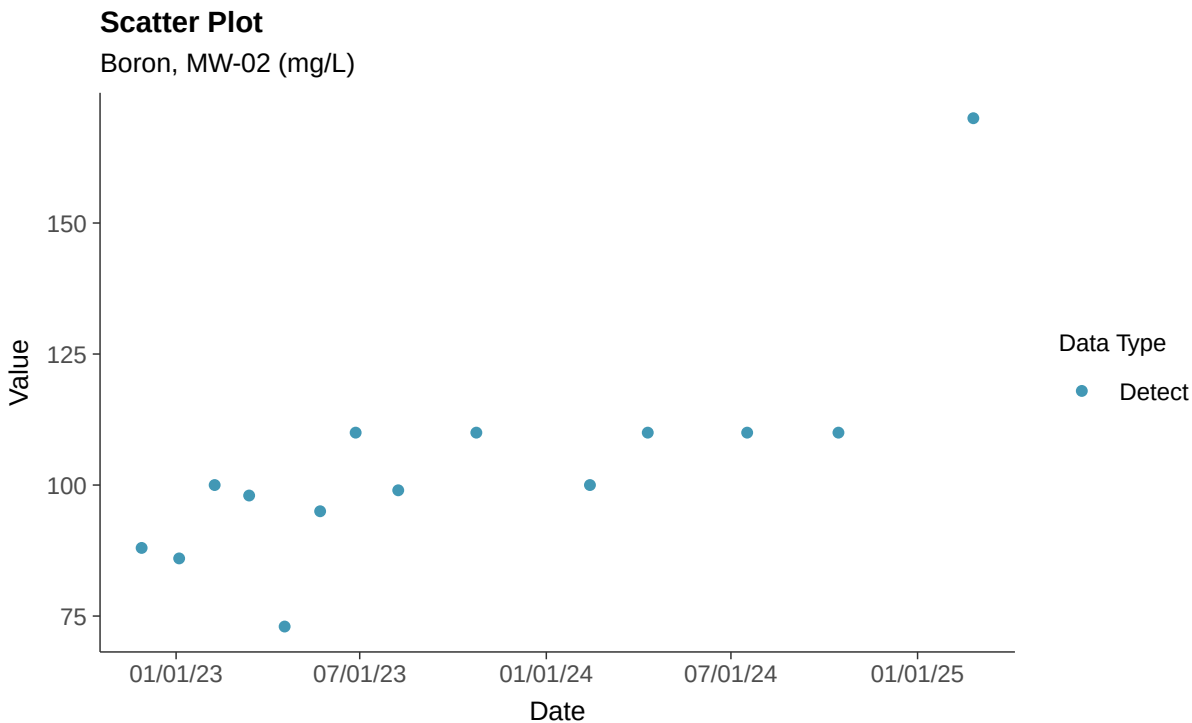


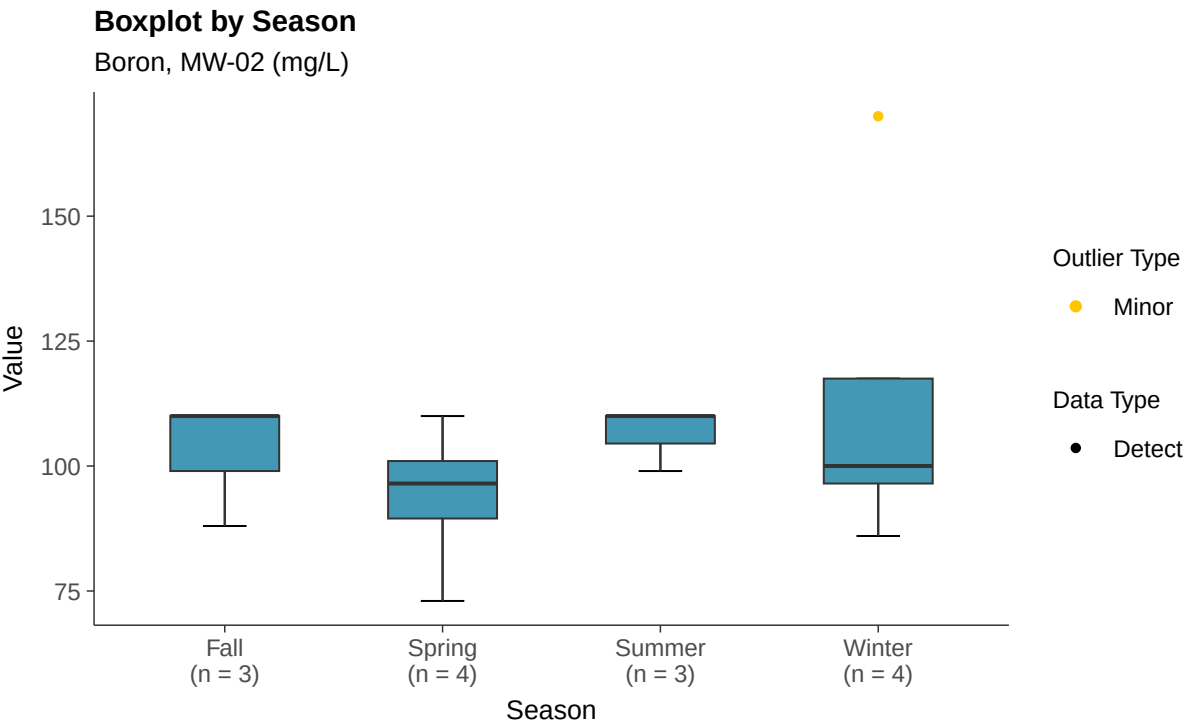
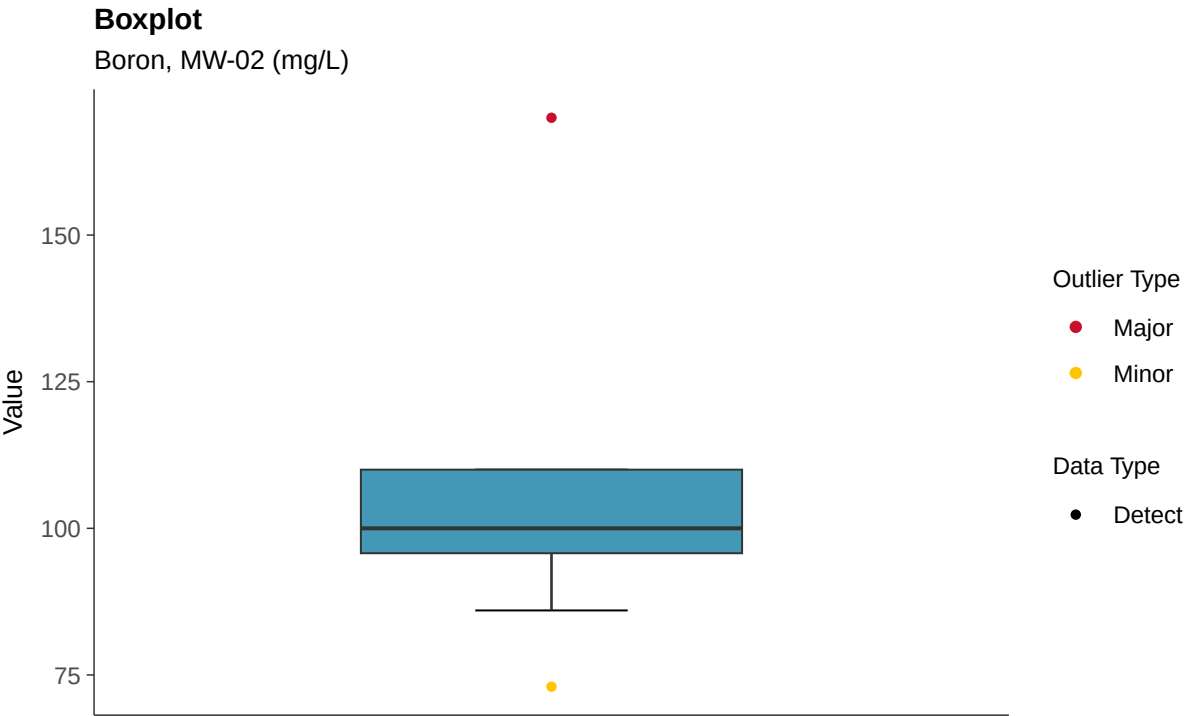


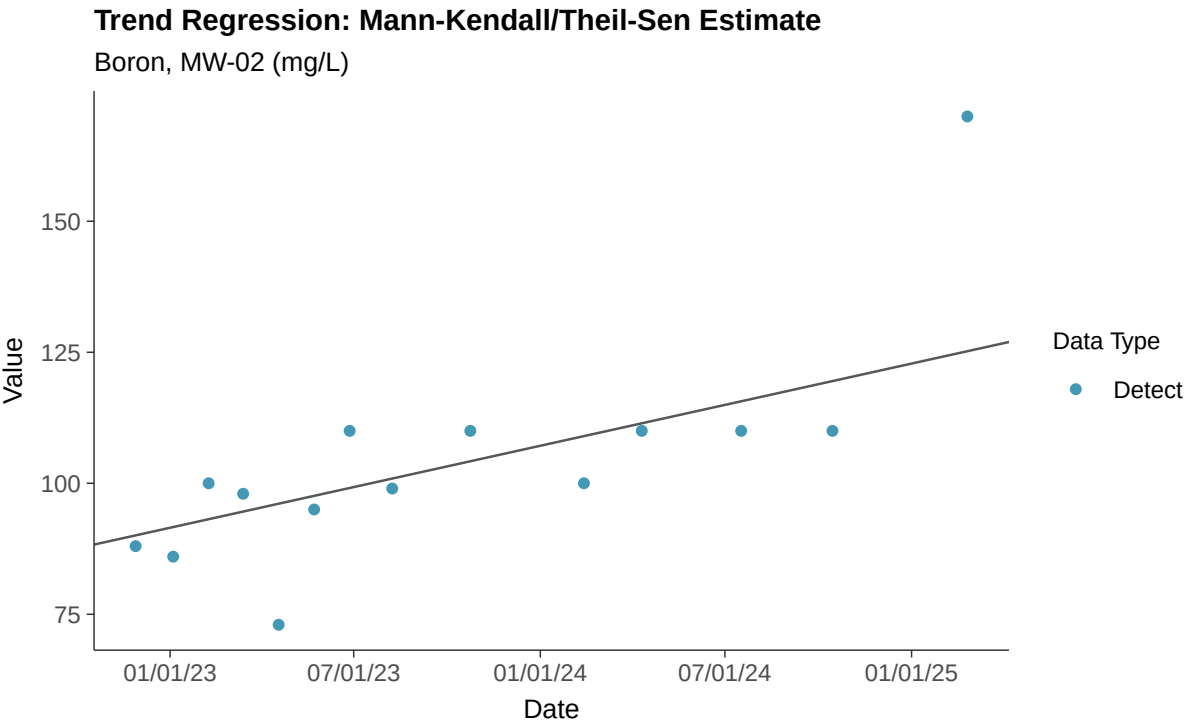
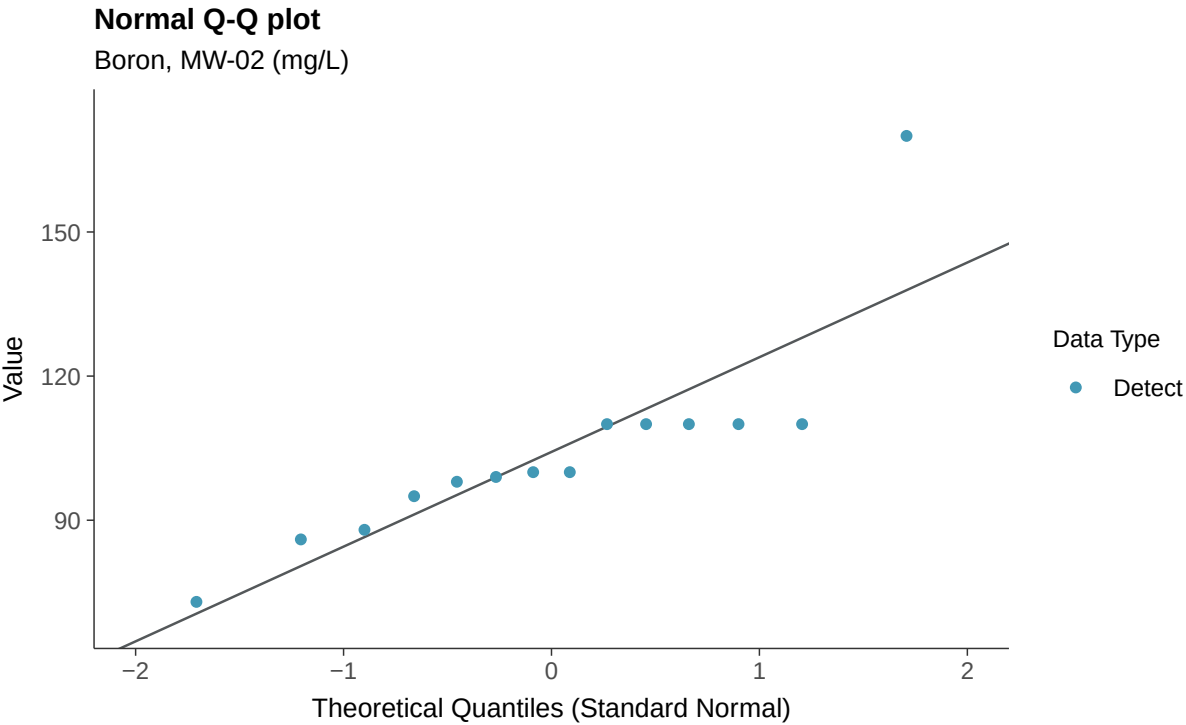


Appendix III: Boron, MW-02

ID: 12_2_3_105



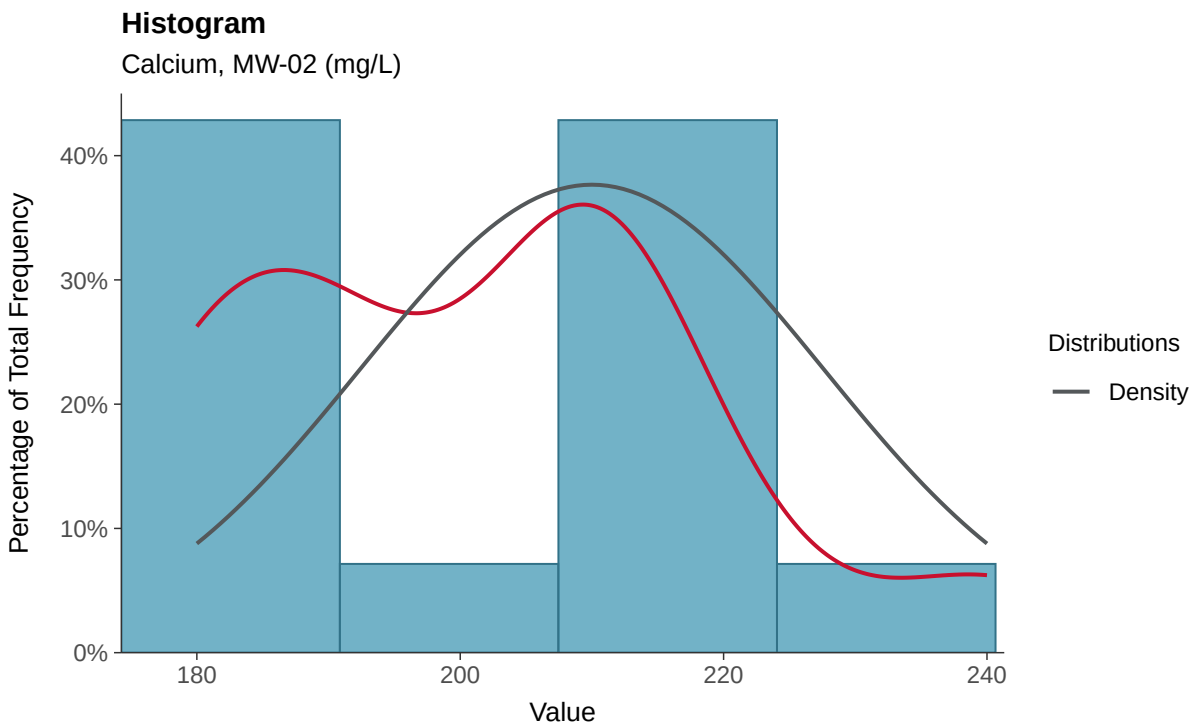
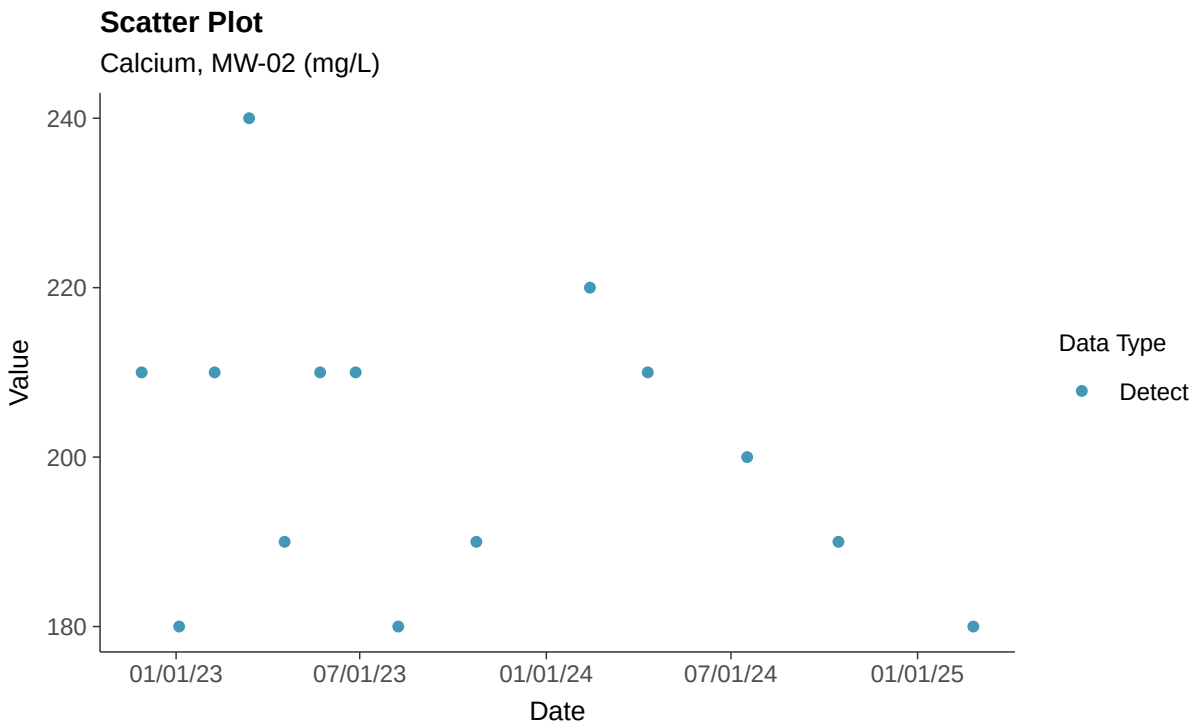


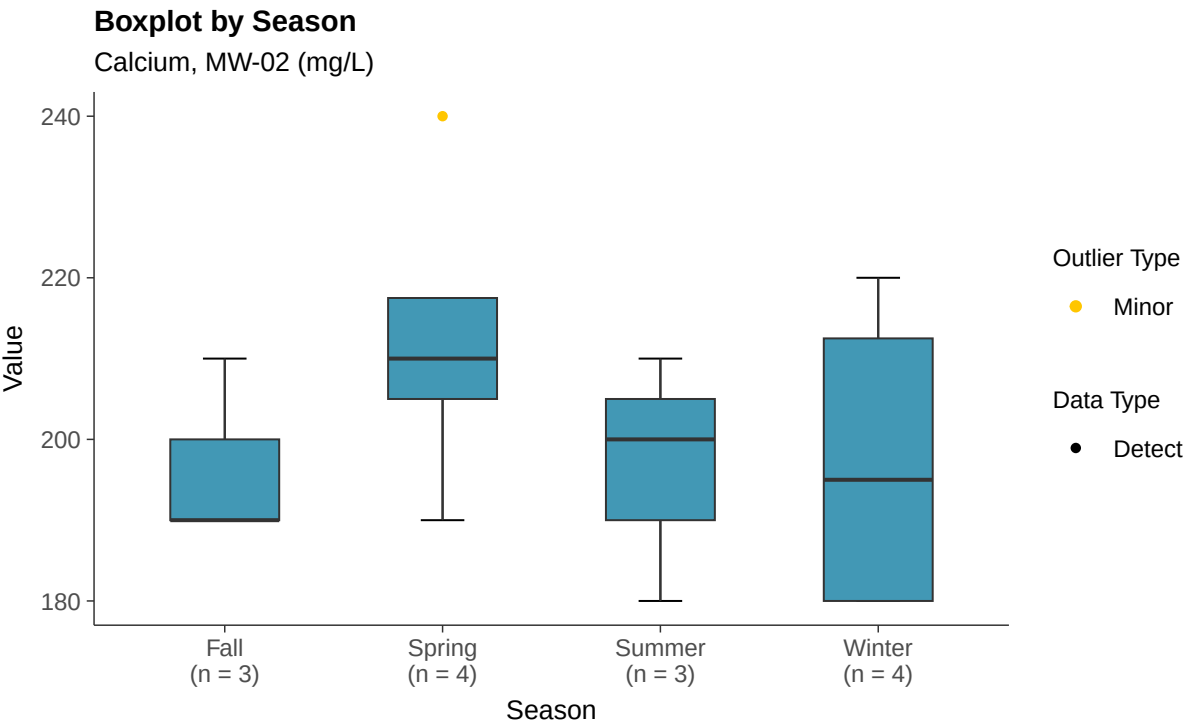
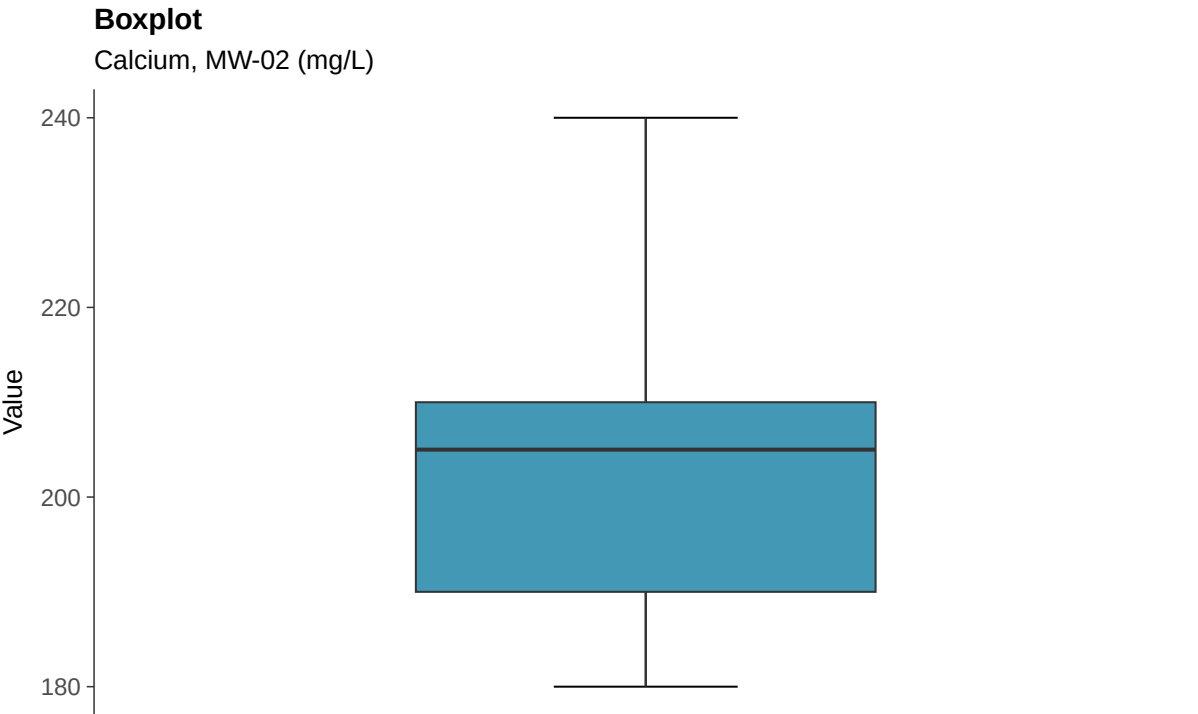


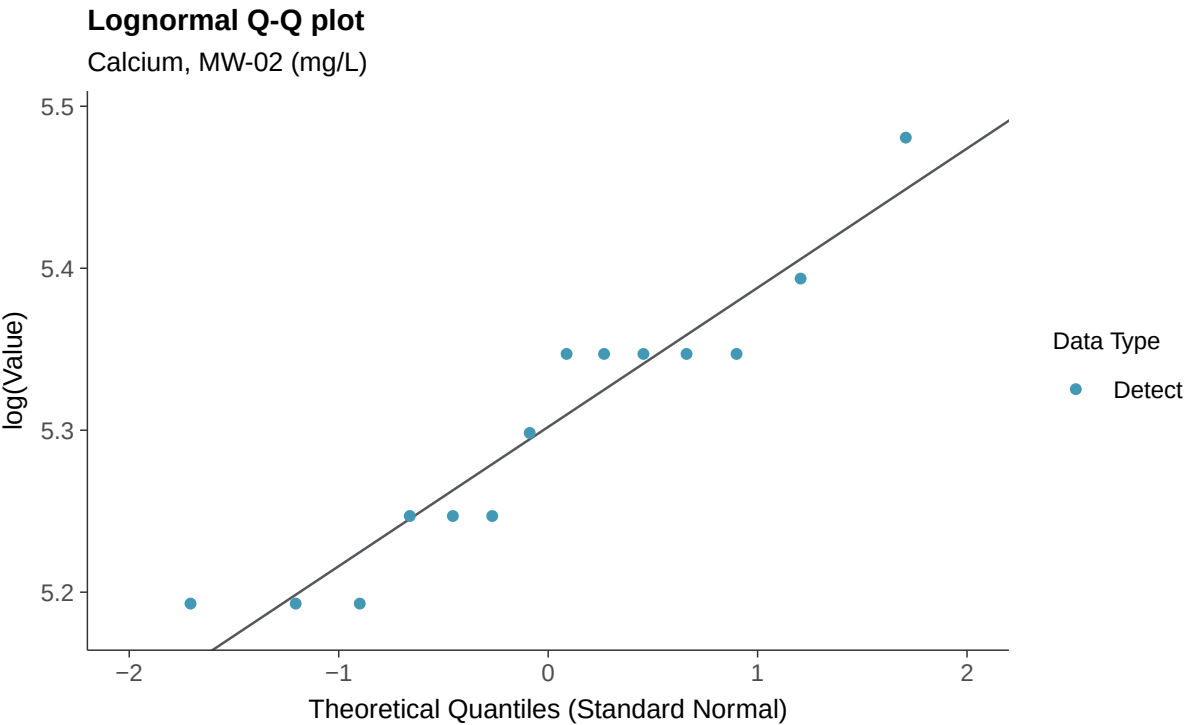
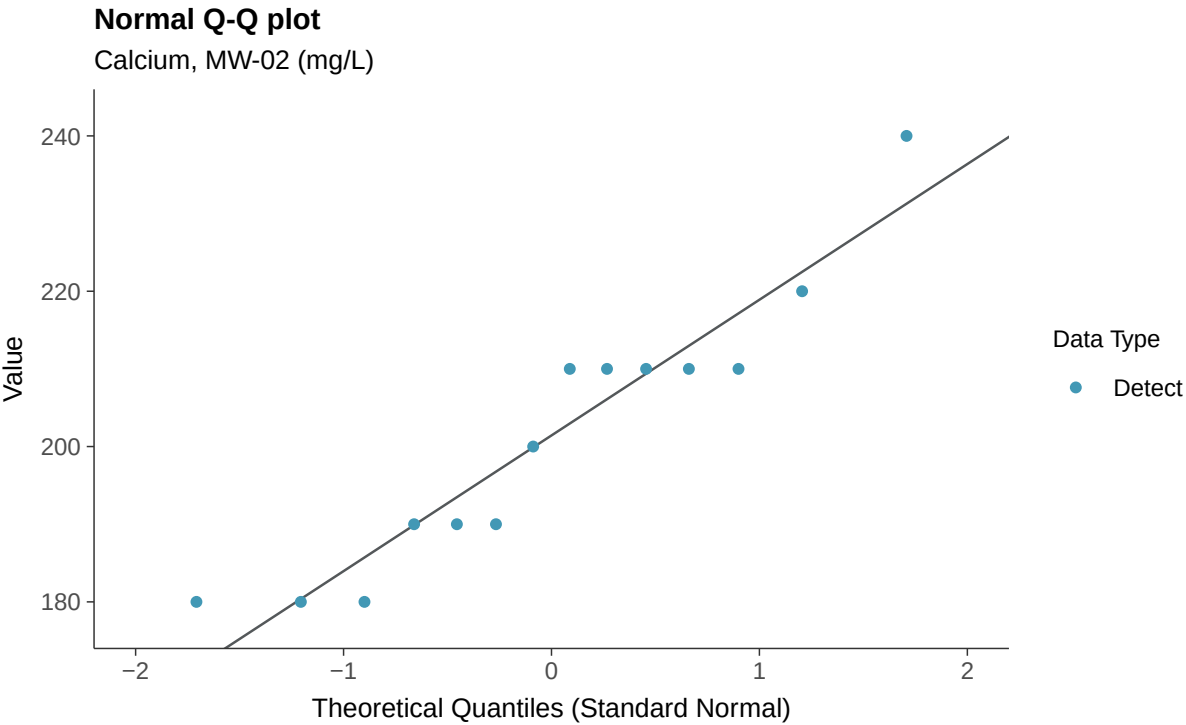


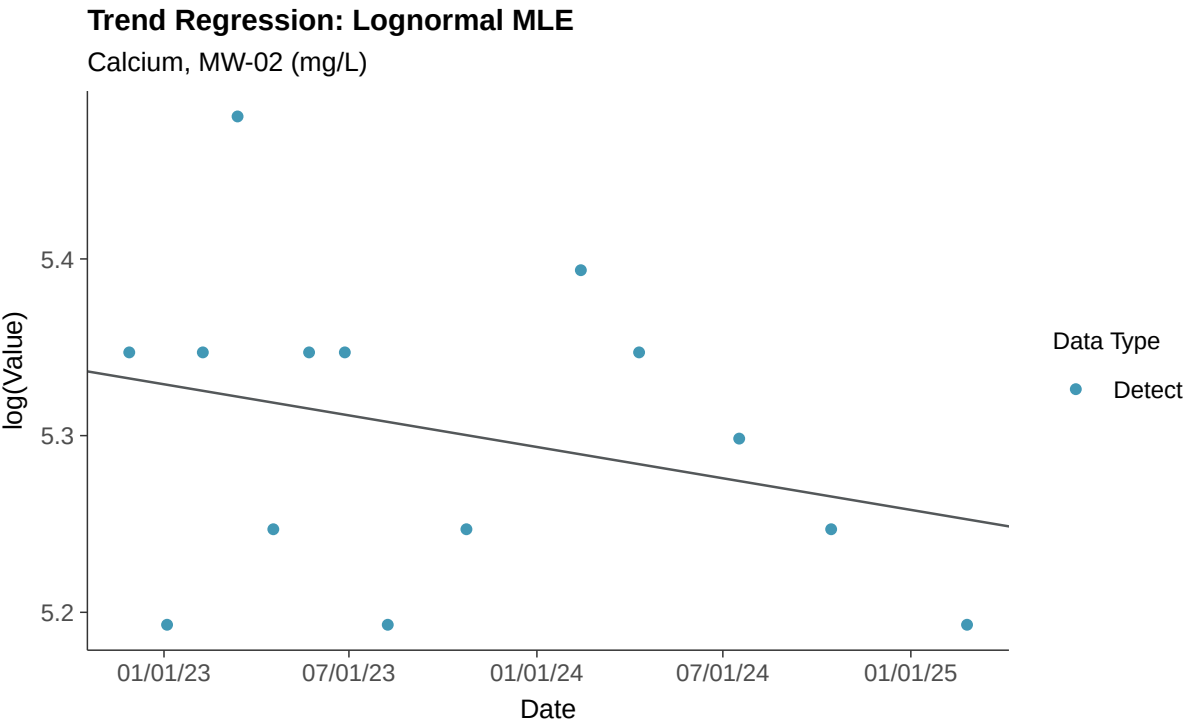
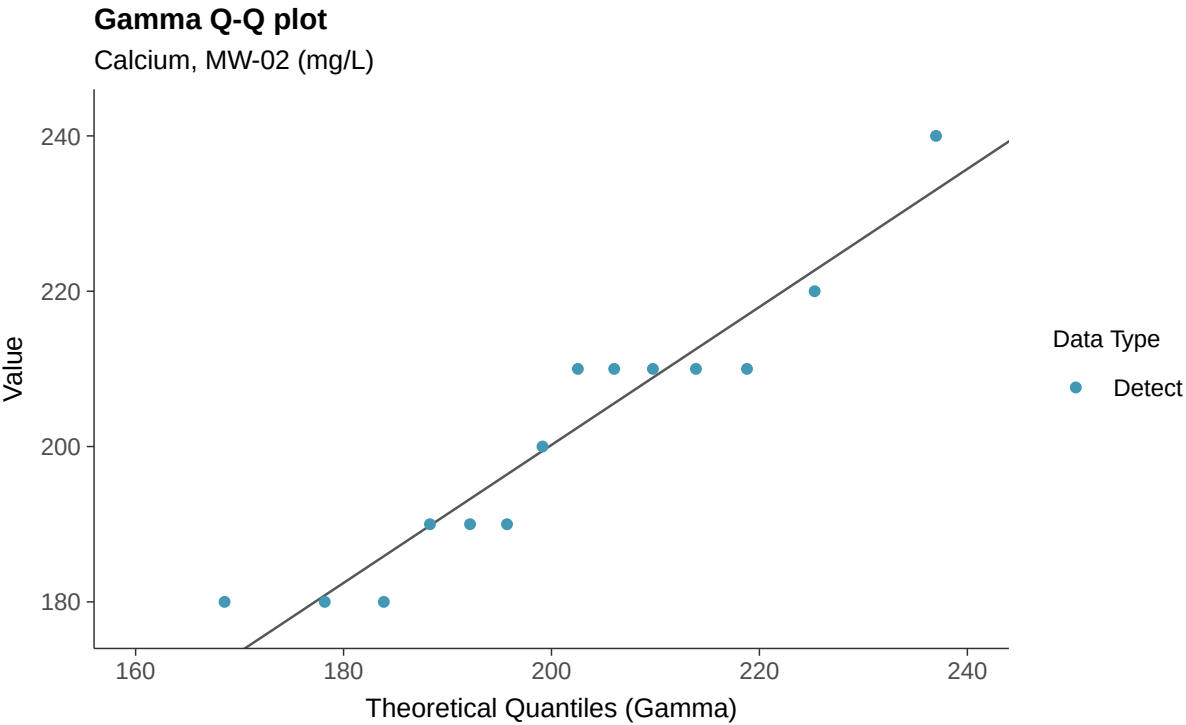
Appendix III: Calcium, MW-02

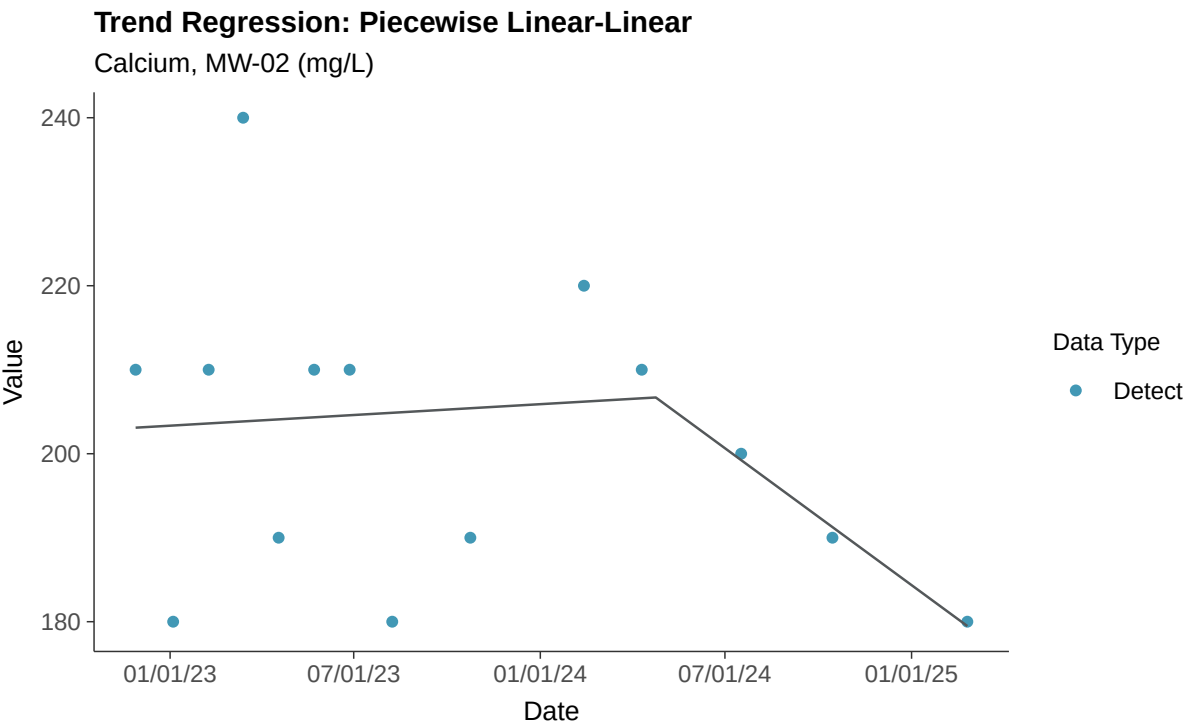
ID: 12_2_3_107







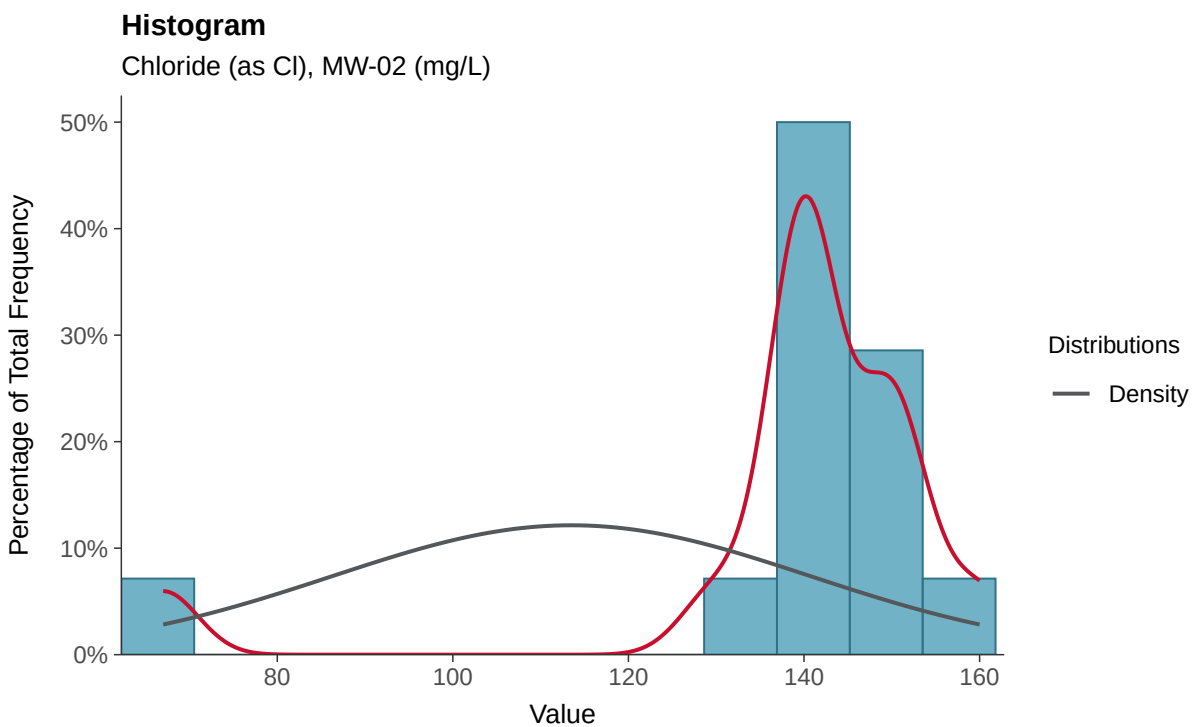
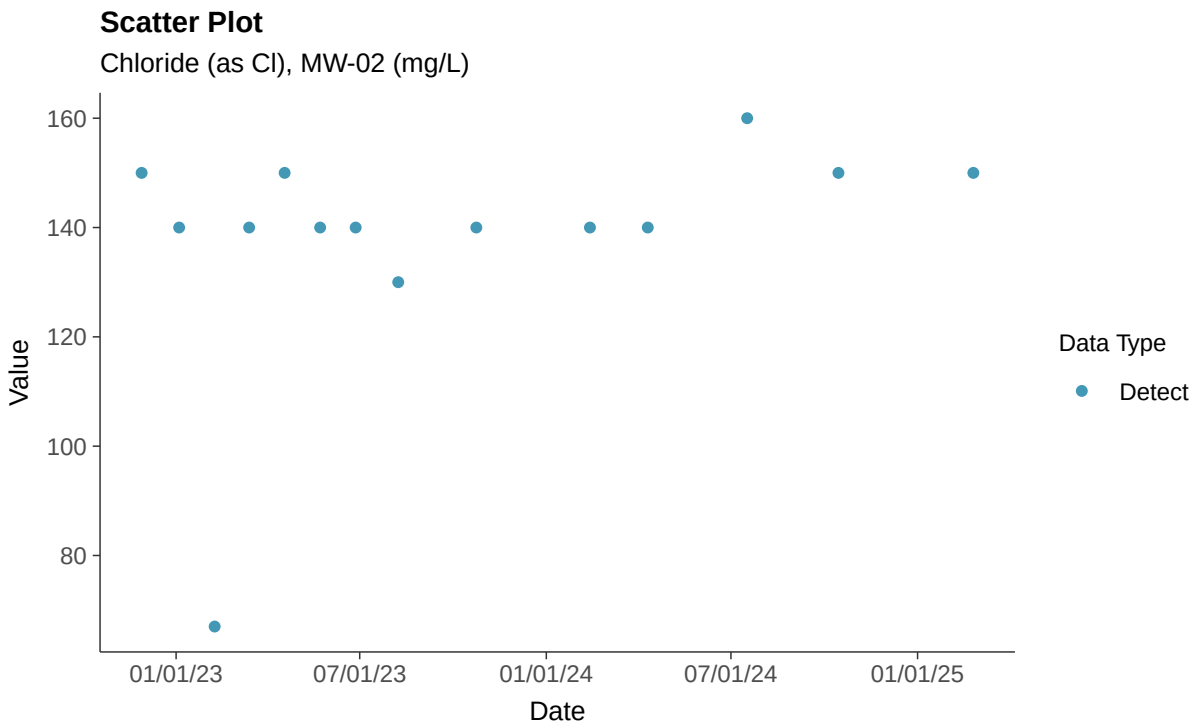


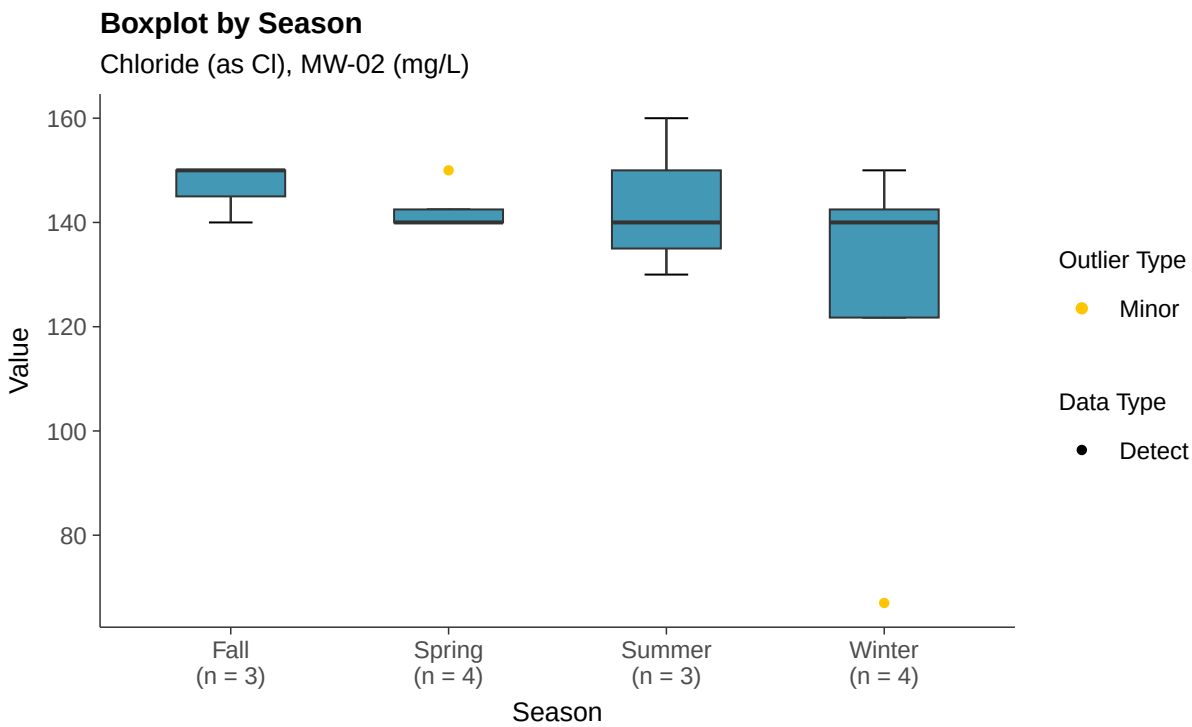
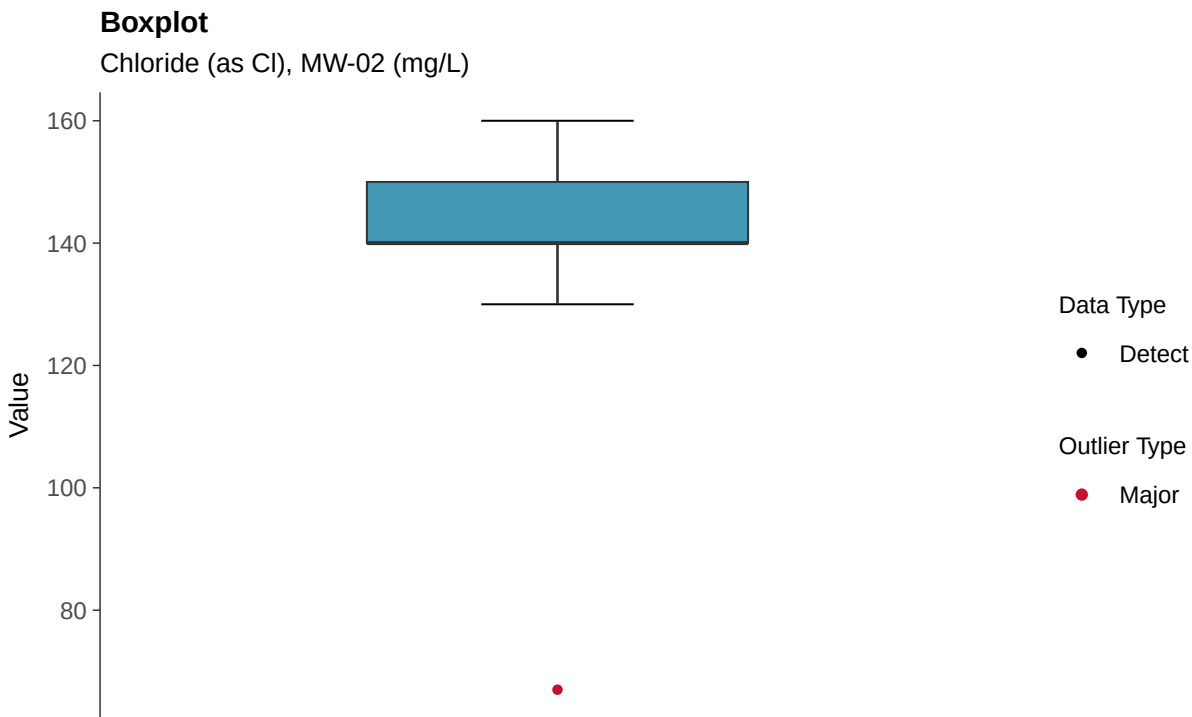


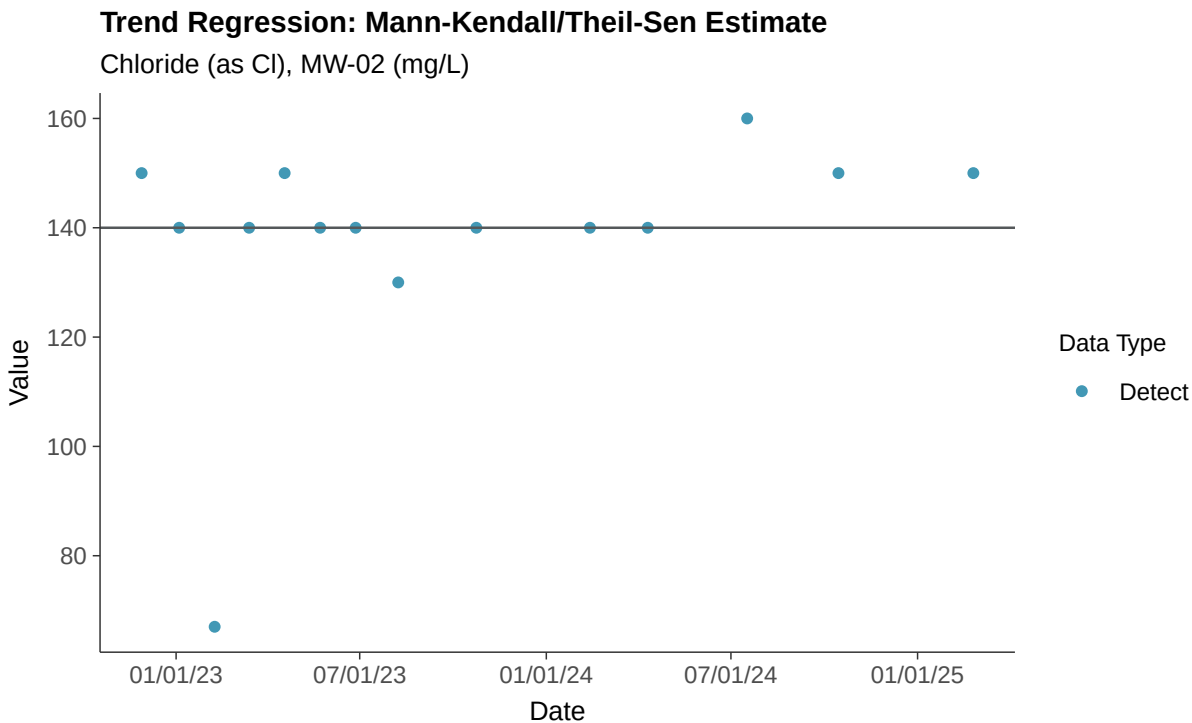
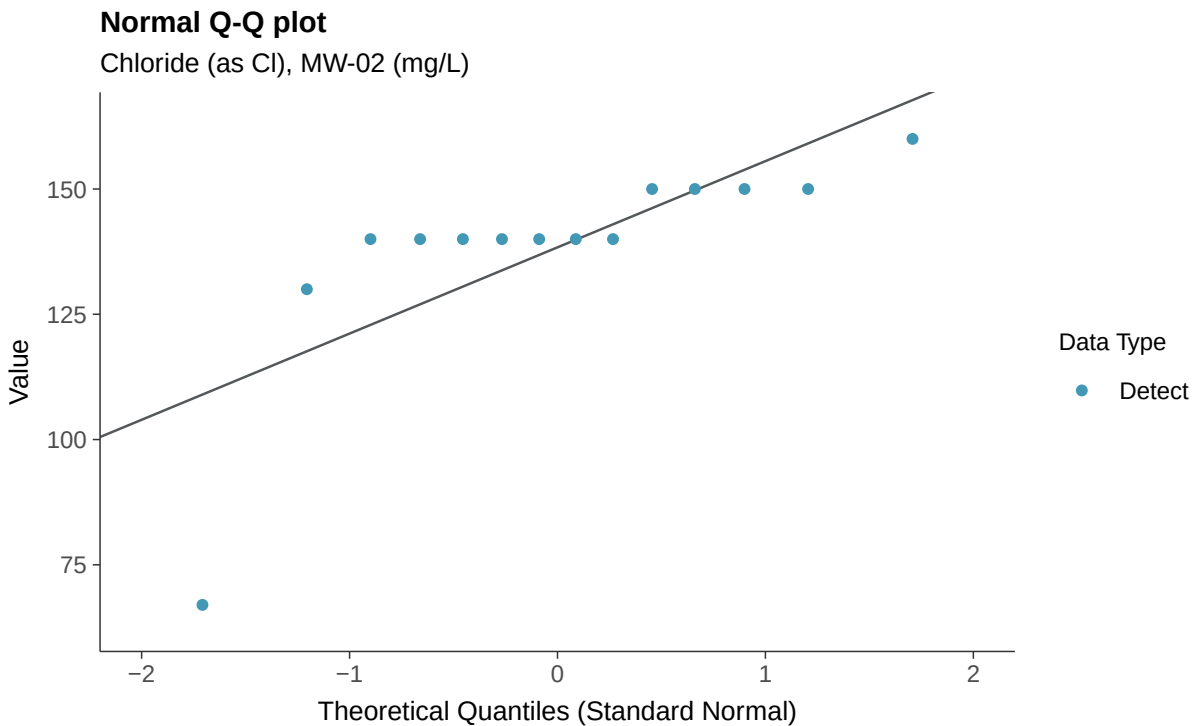


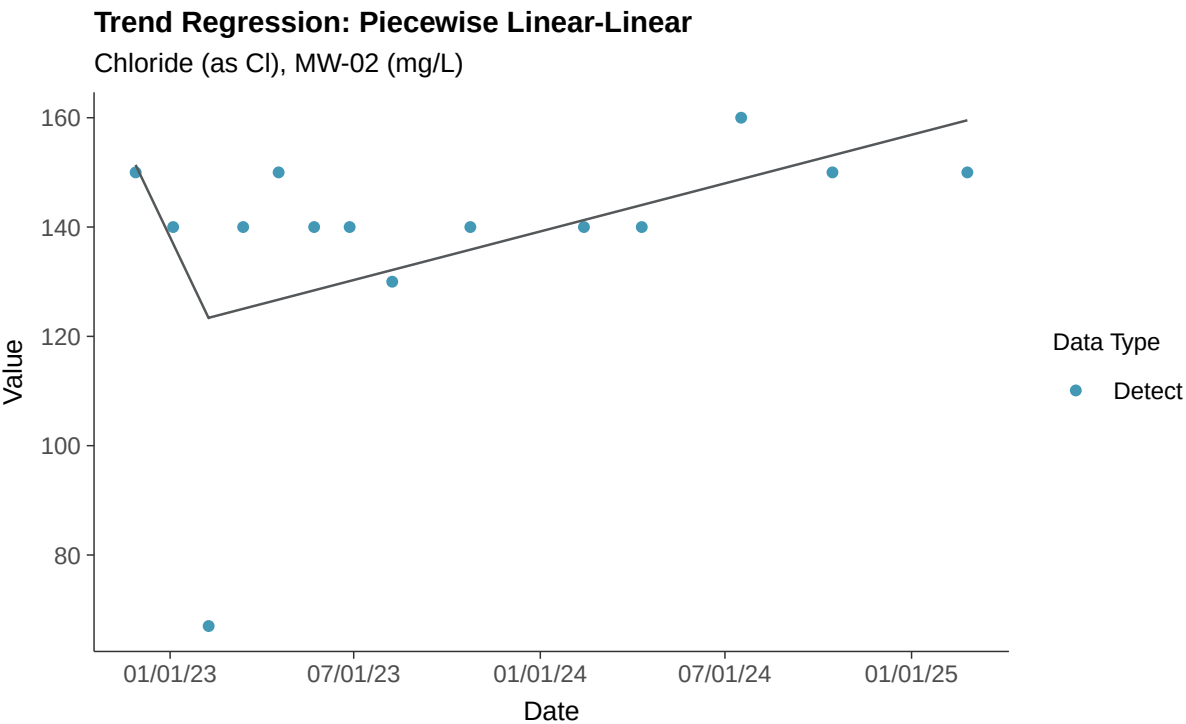
Appendix III: Chloride (as Cl), MW-02

ID: 12_2_3_108





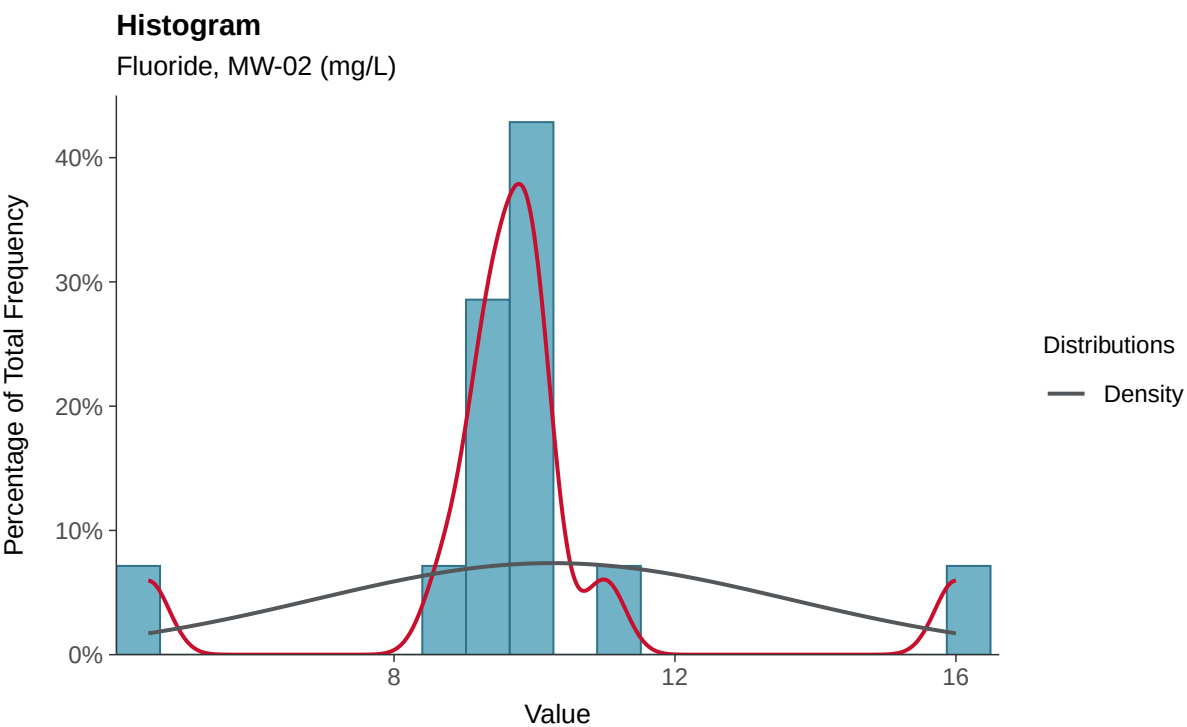
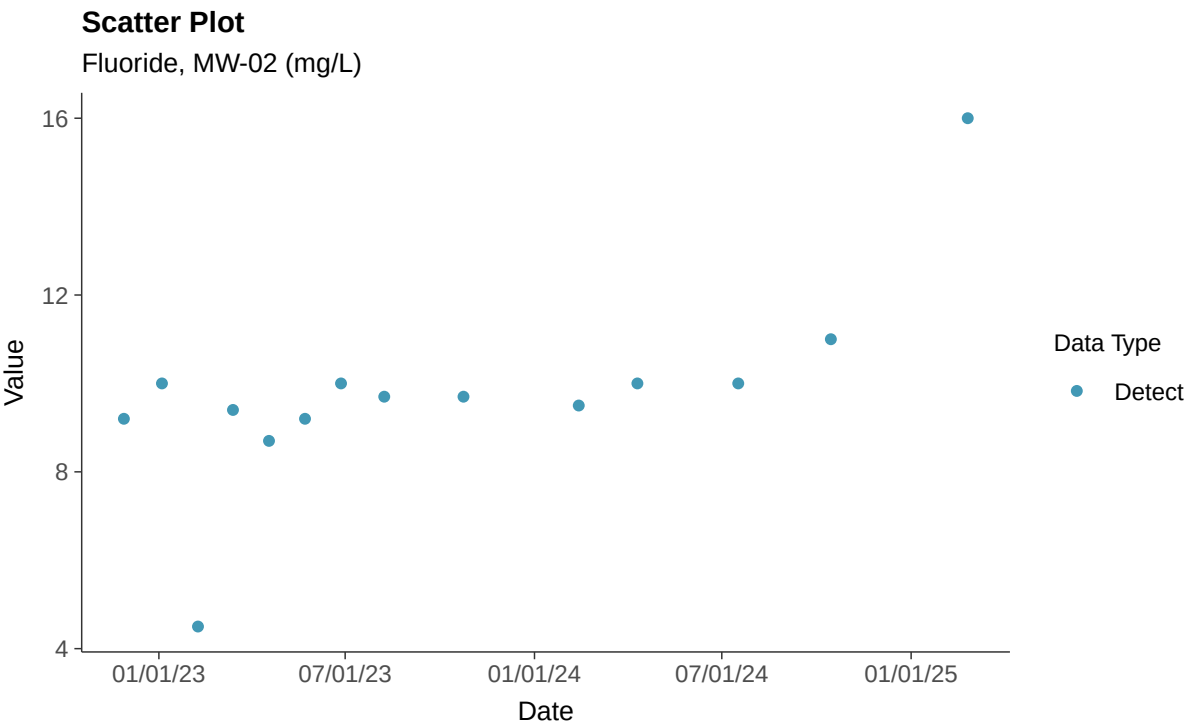


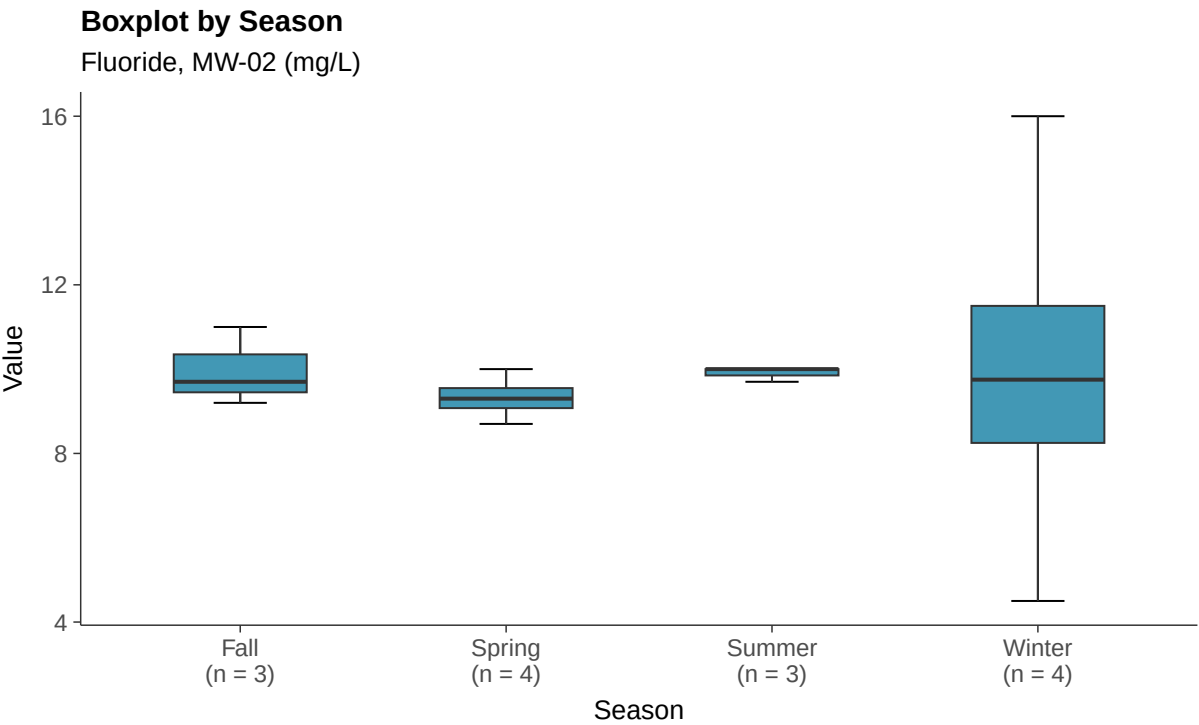
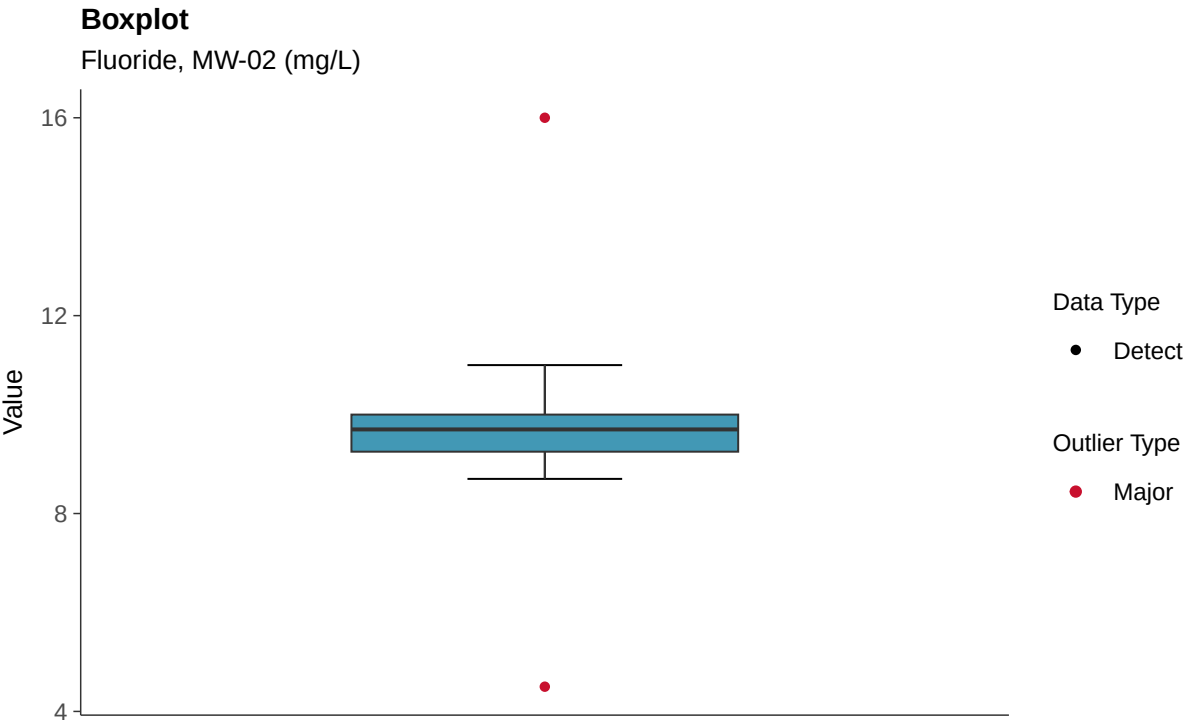


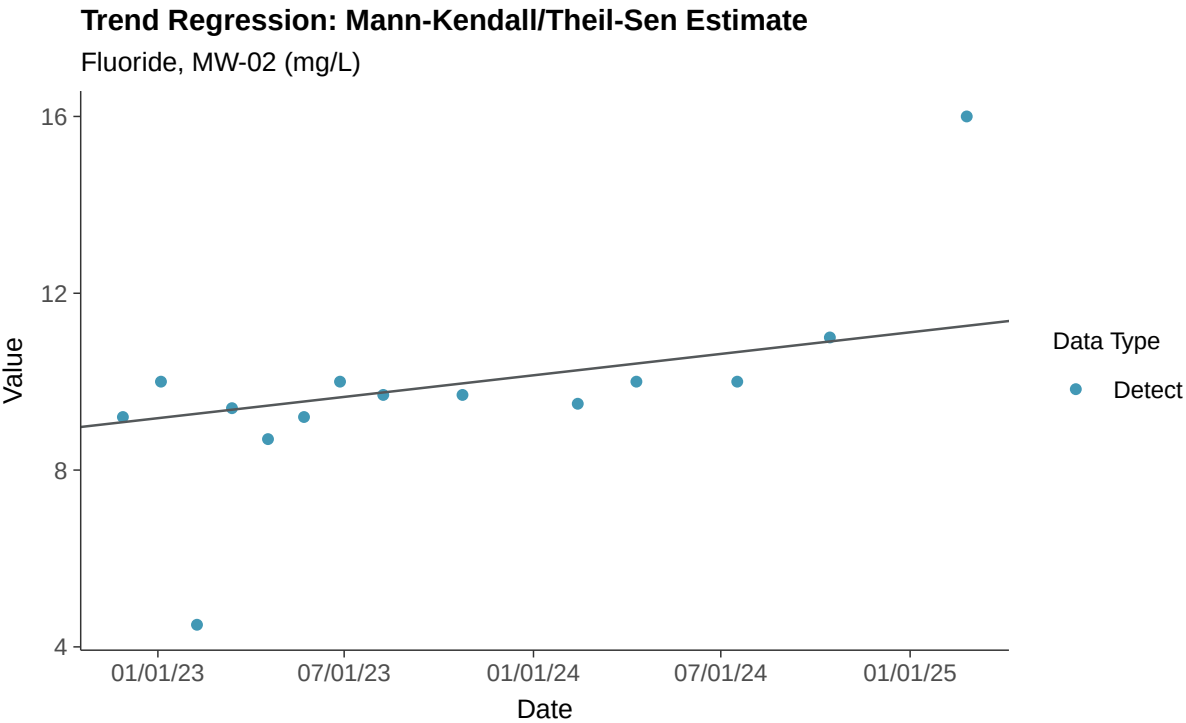
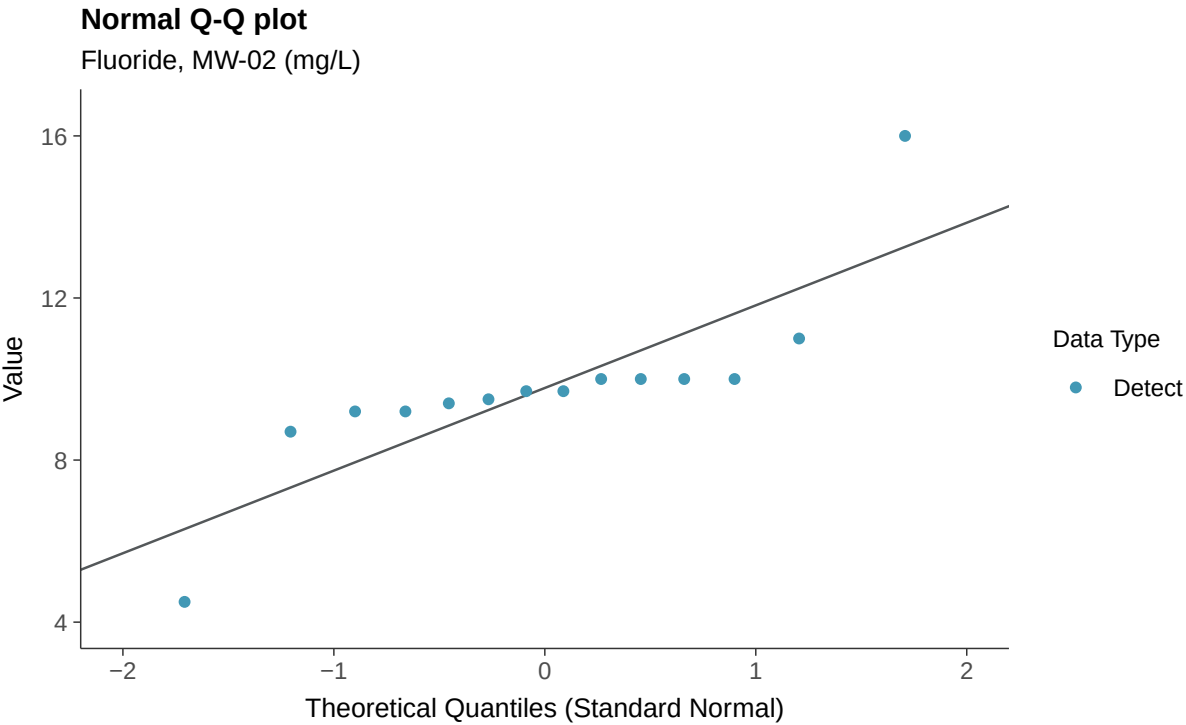


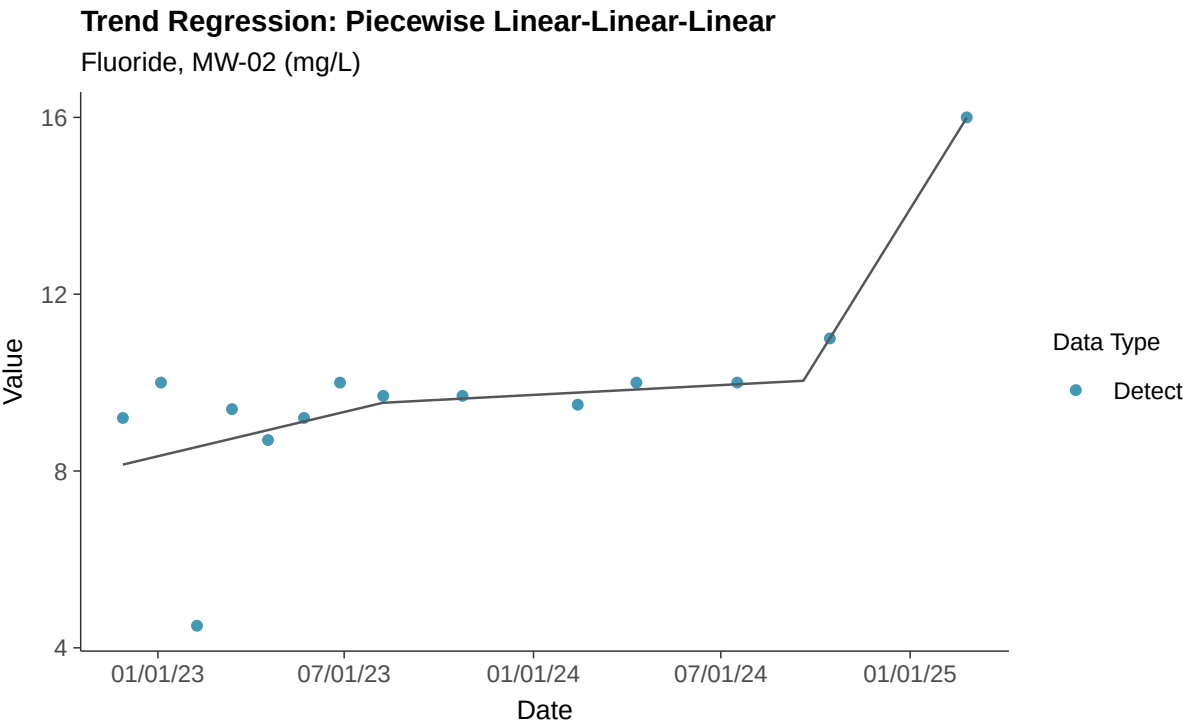
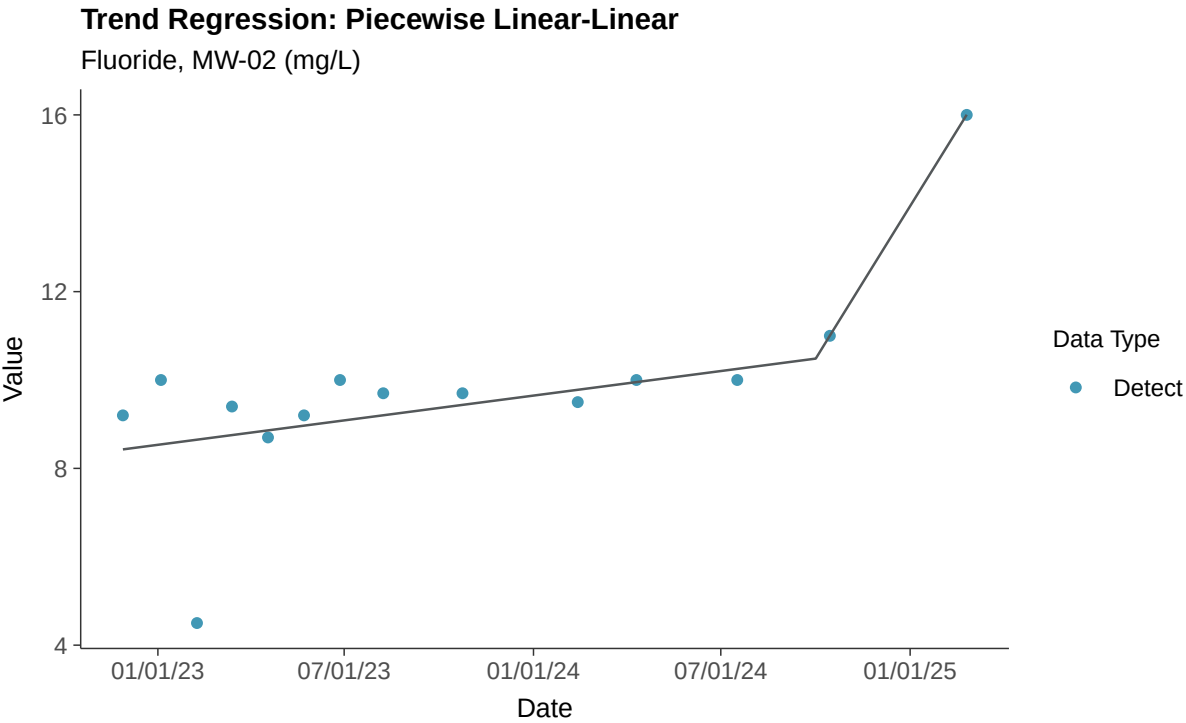
Appendix III: Fluoride, MW-02

ID: 12_2_3_112





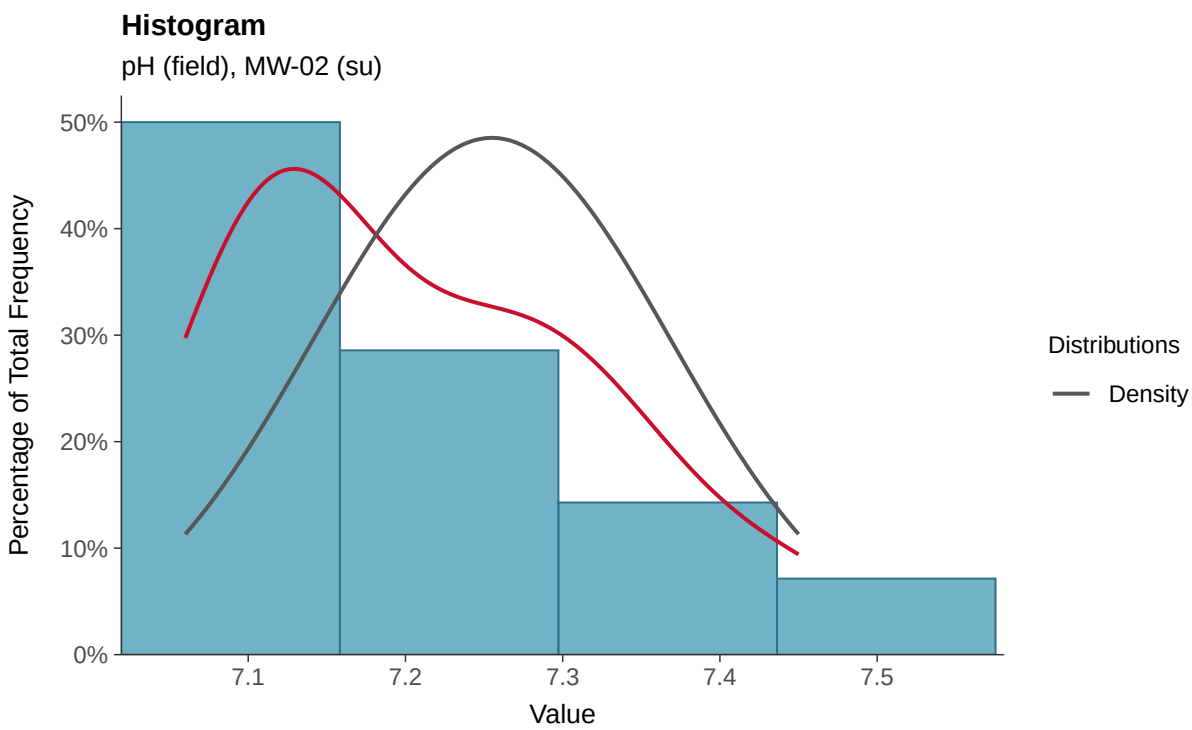
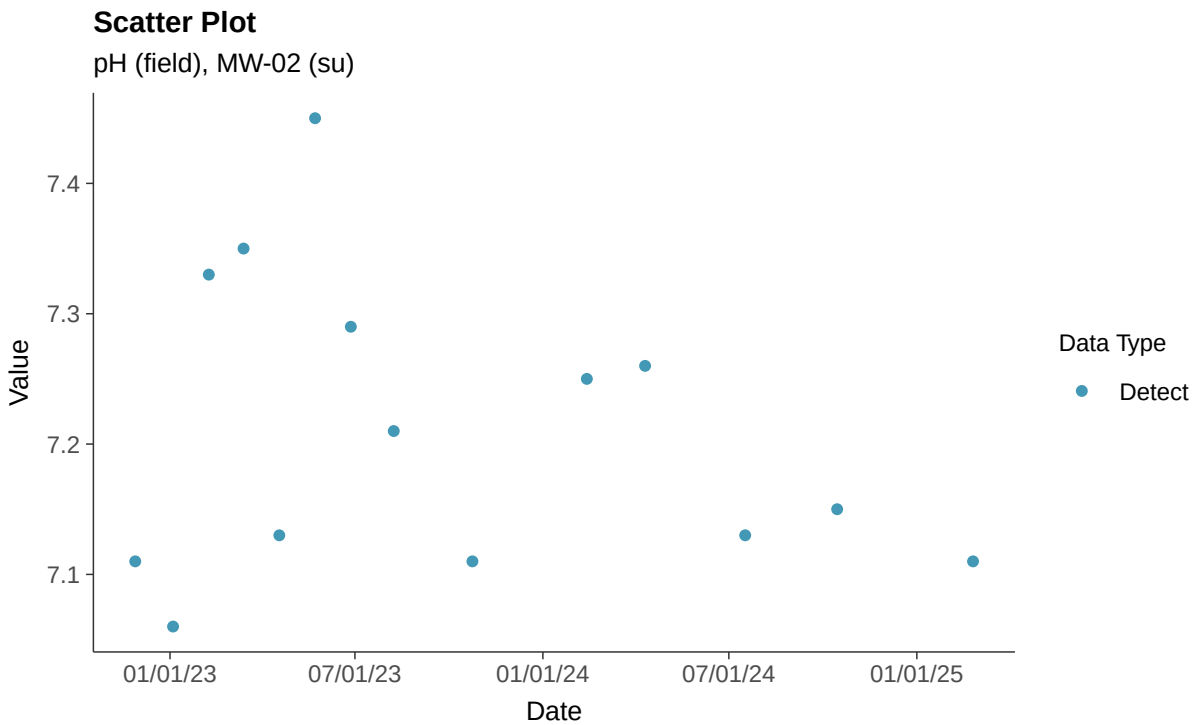


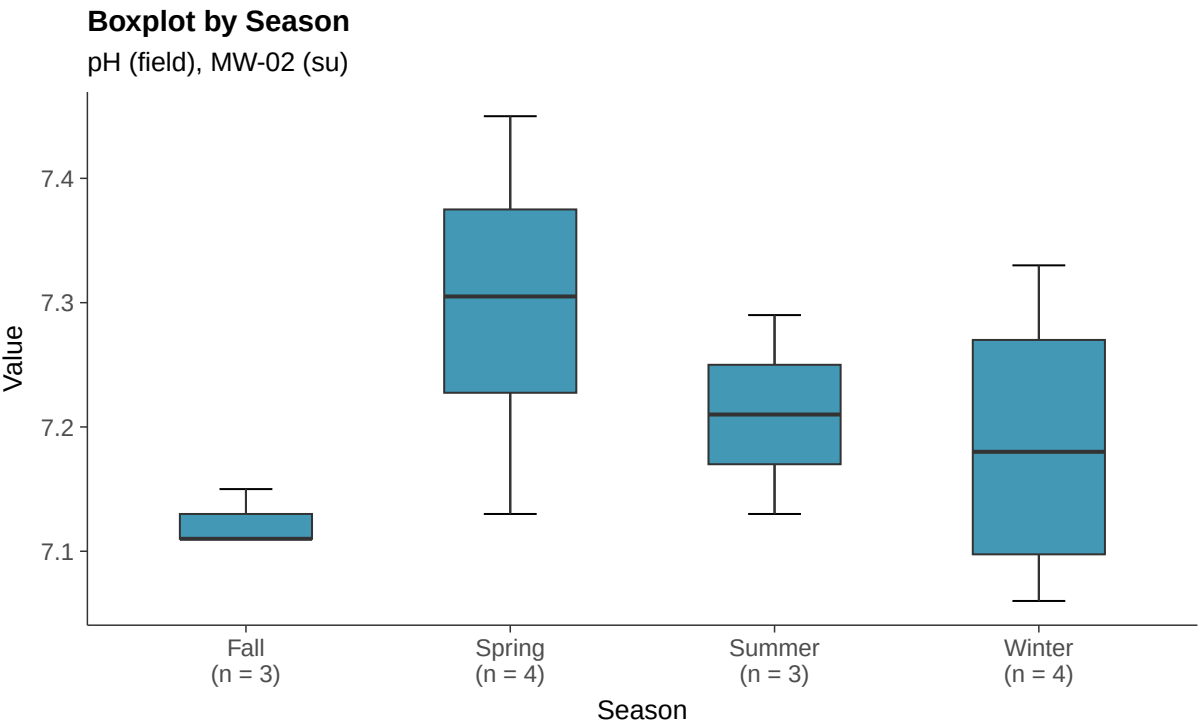
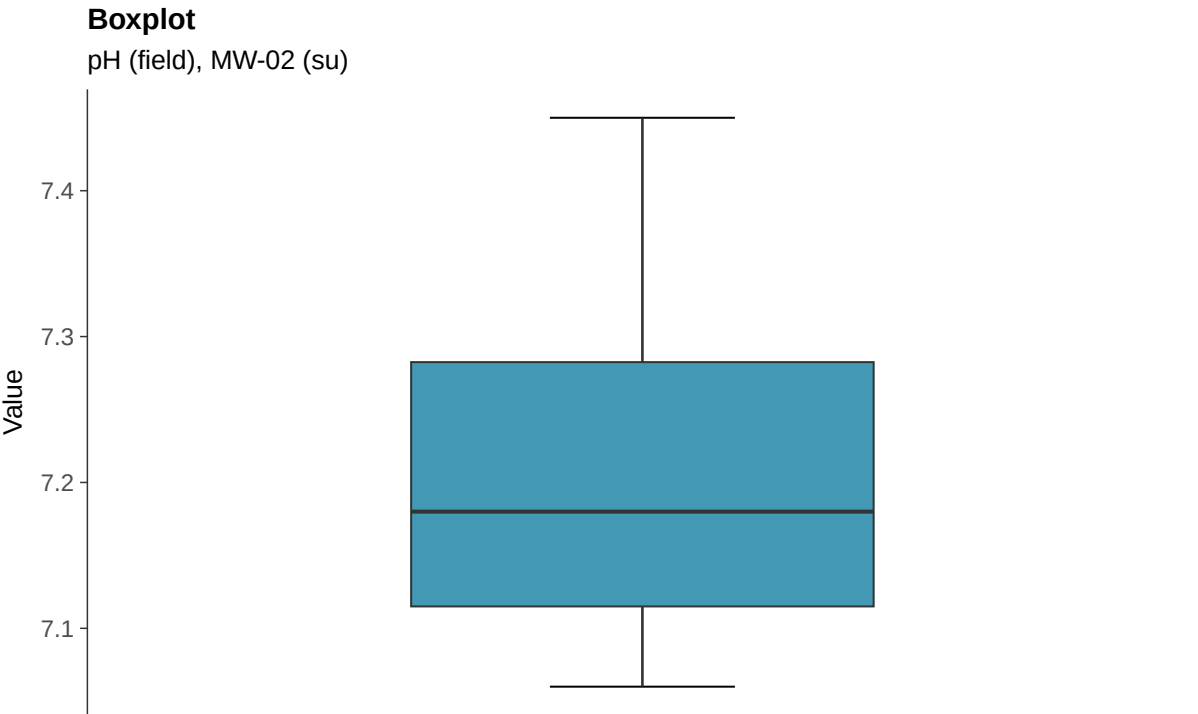


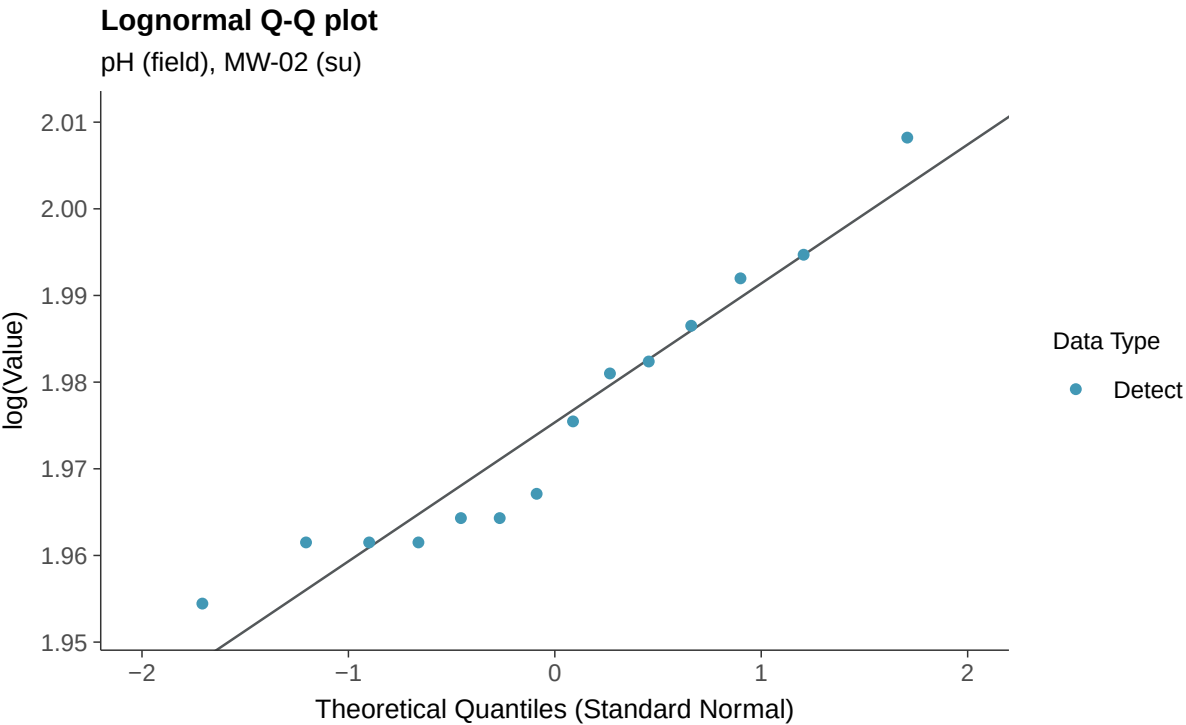
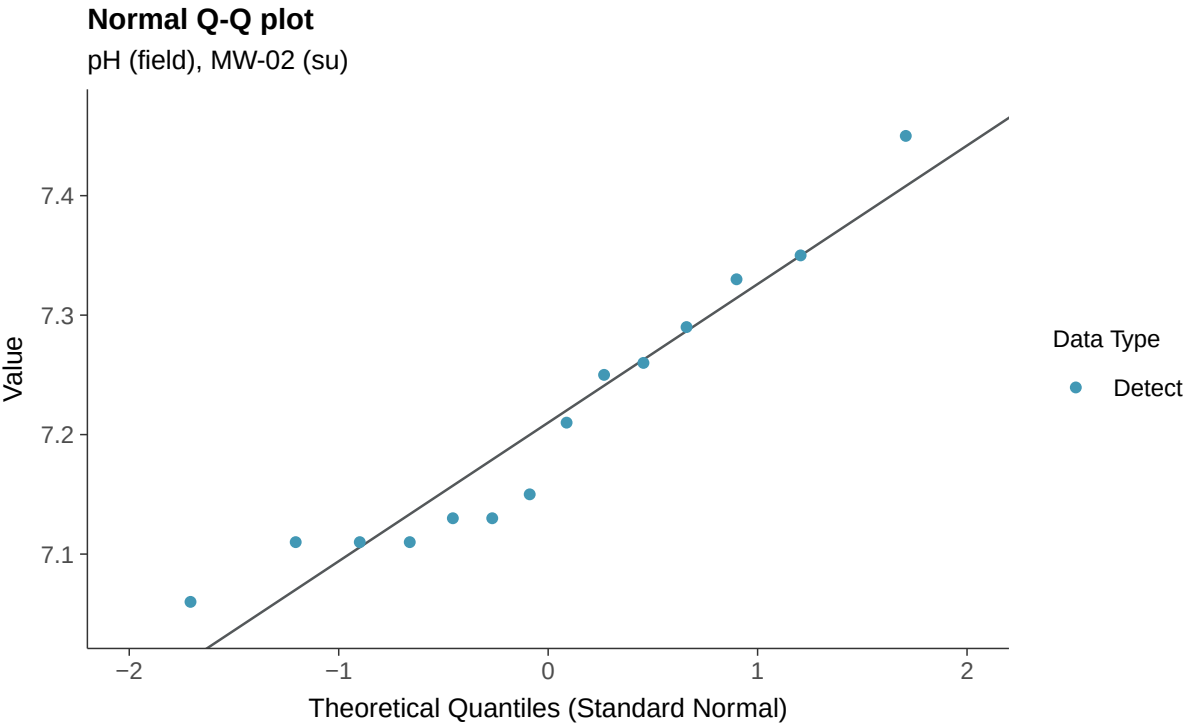


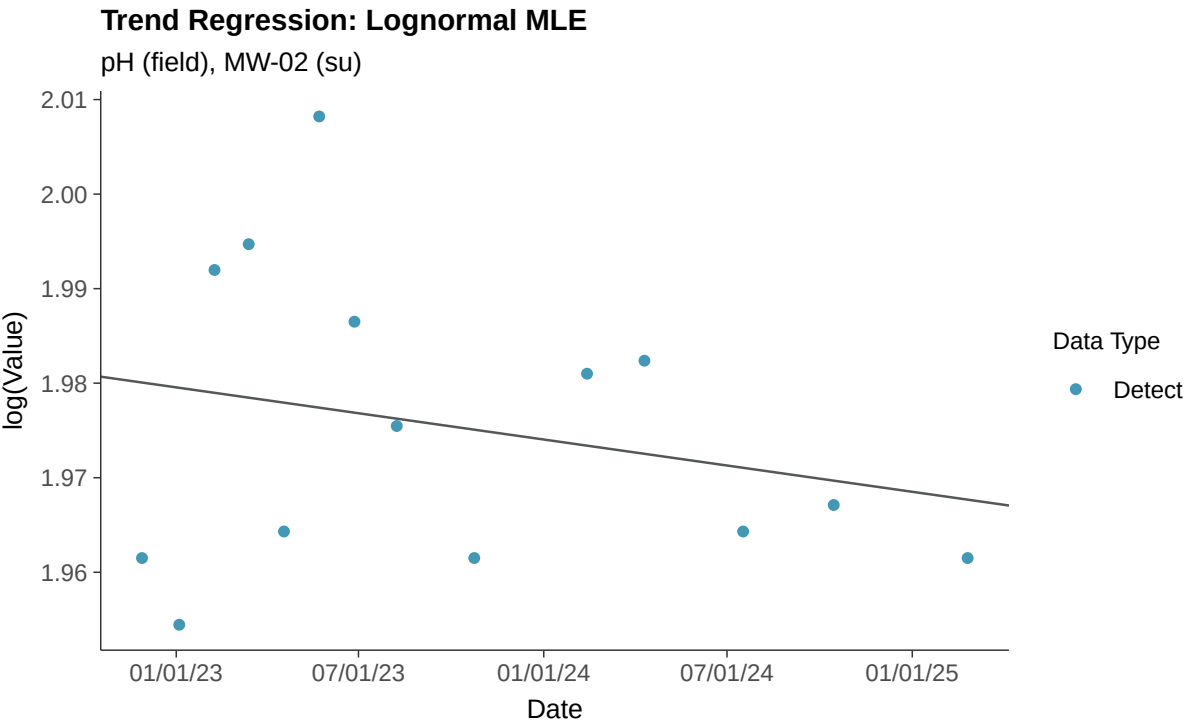
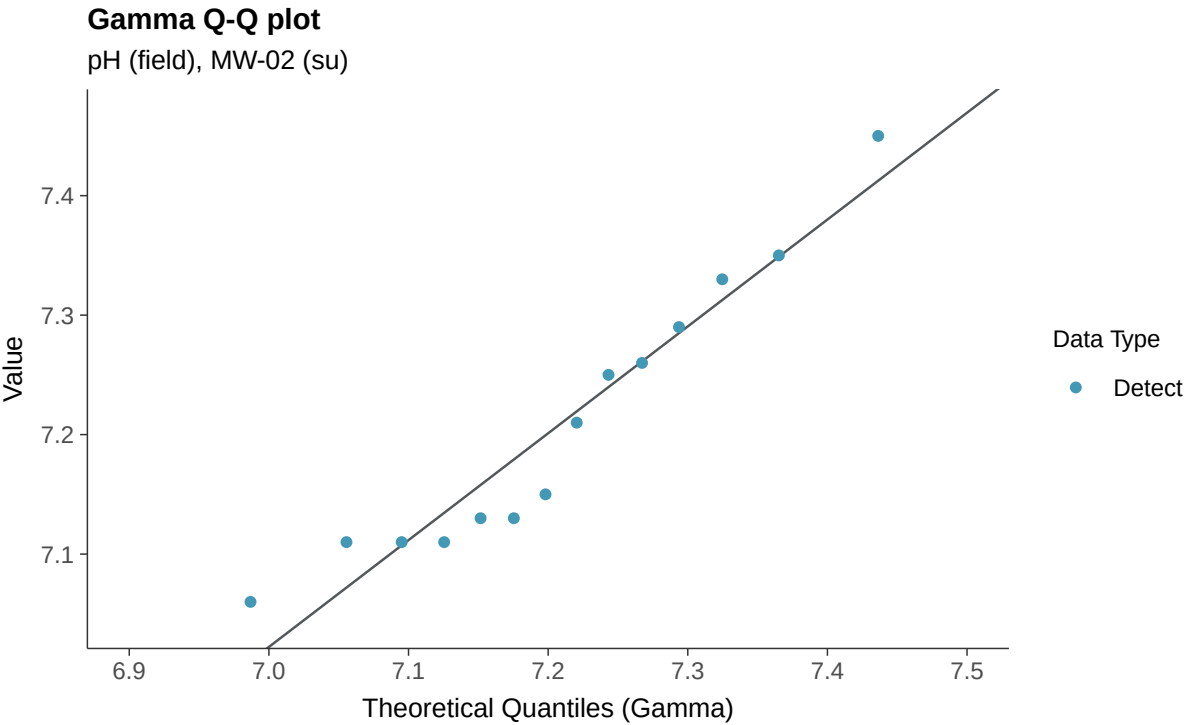
Appendix III: pH (field), MW-02

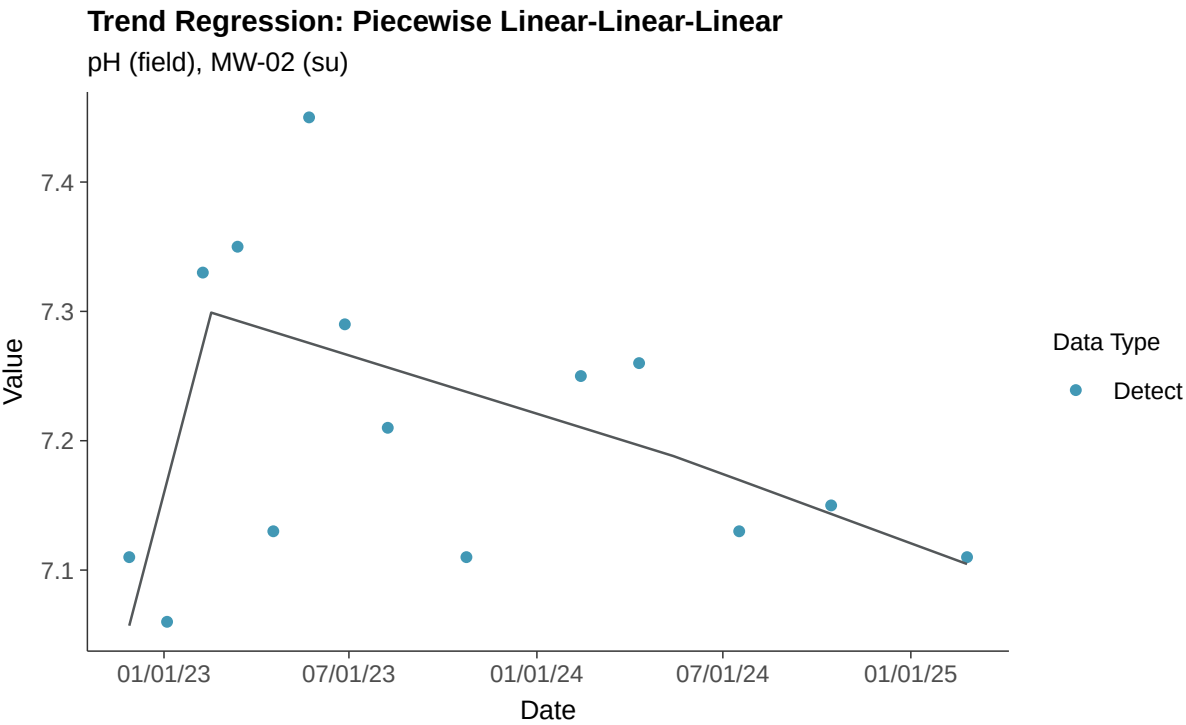
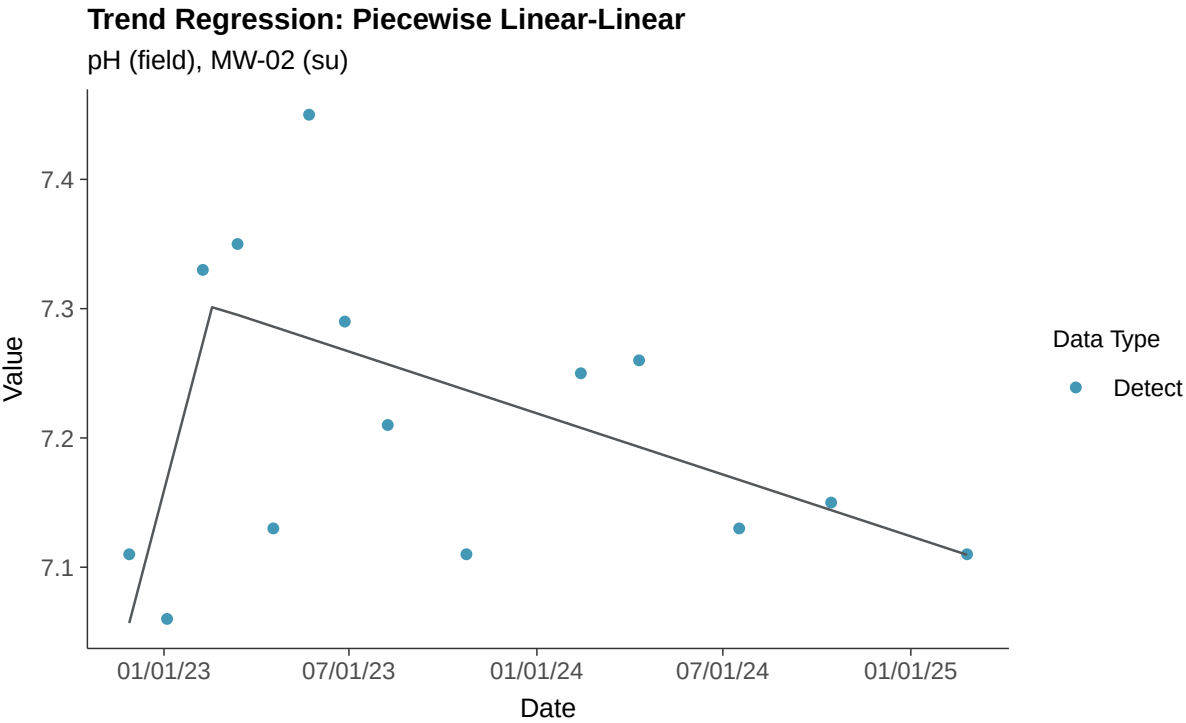
ID: 12_2_3_120







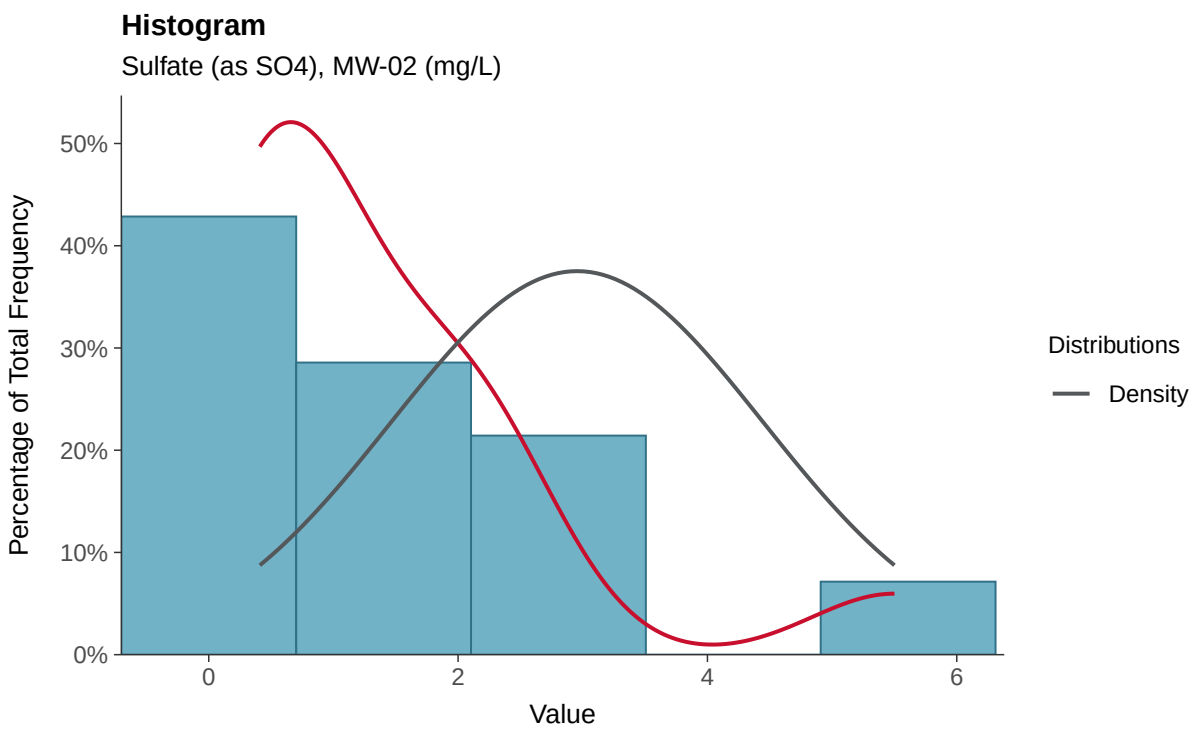
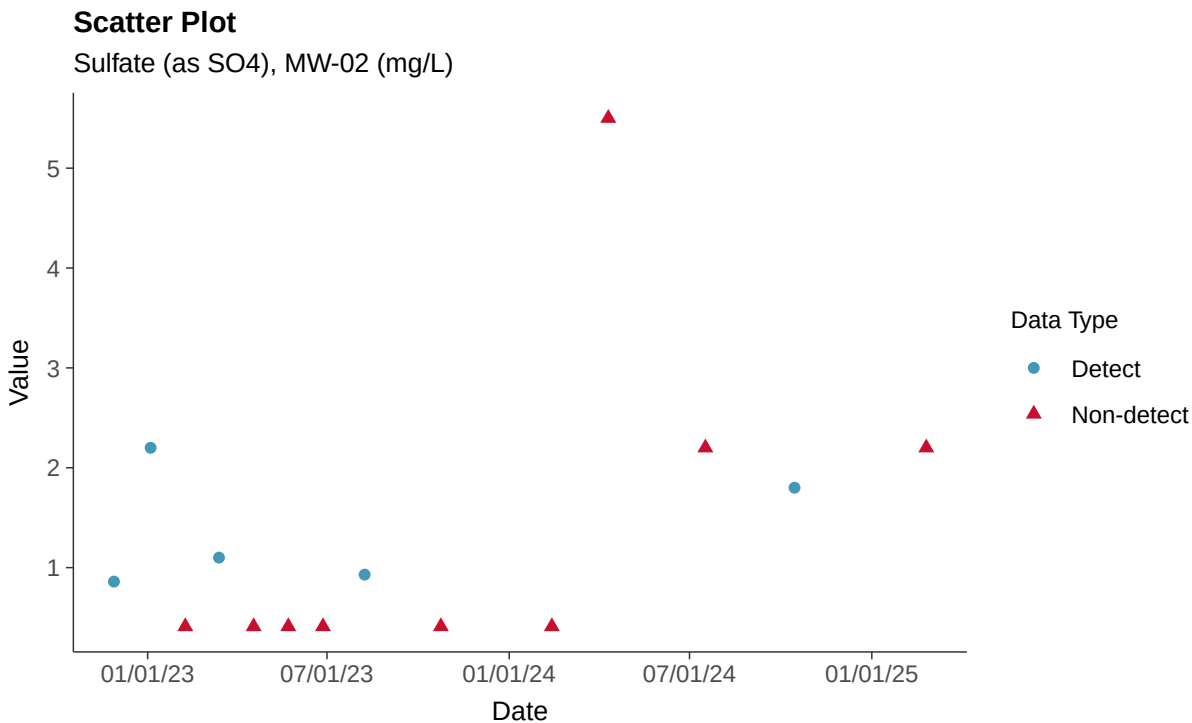






Appendix III: Sulfate (as SO₄), MW-02

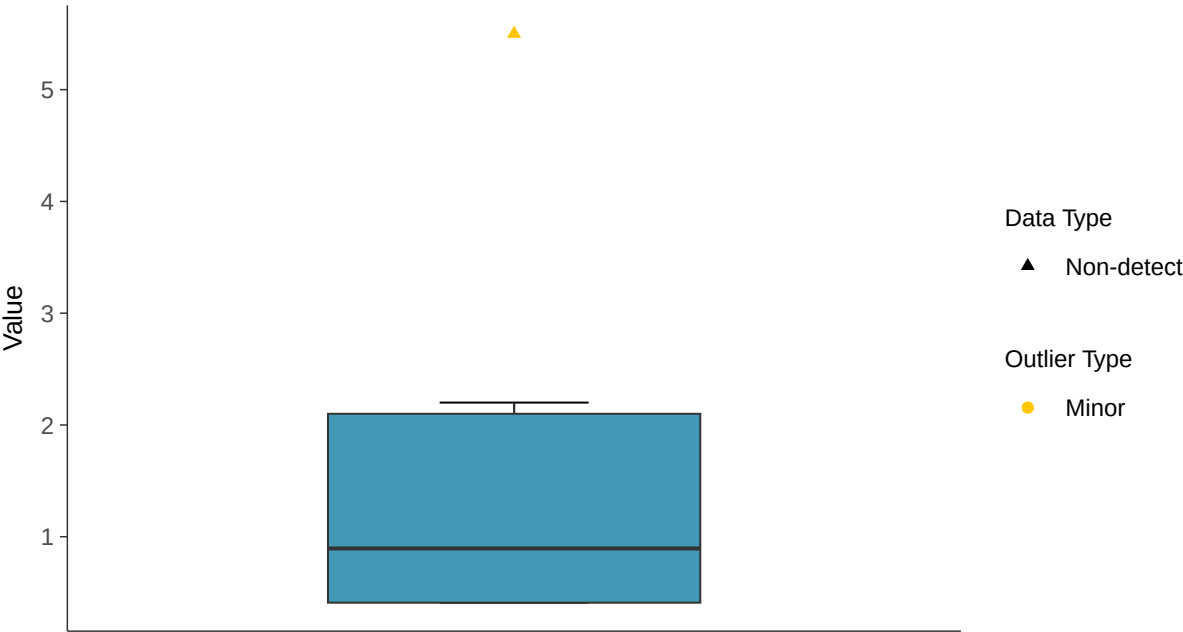
ID: 12_2_3_124





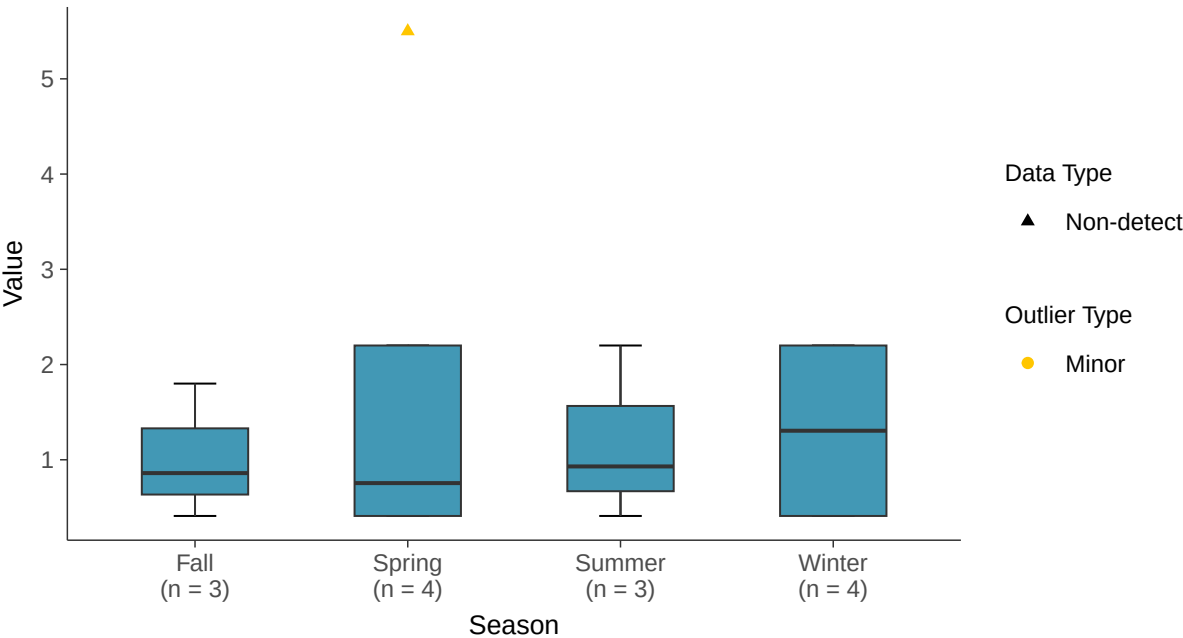
Boxplot

Sulfate (as SO₄), MW-02 (mg/L)



Boxplot by Season

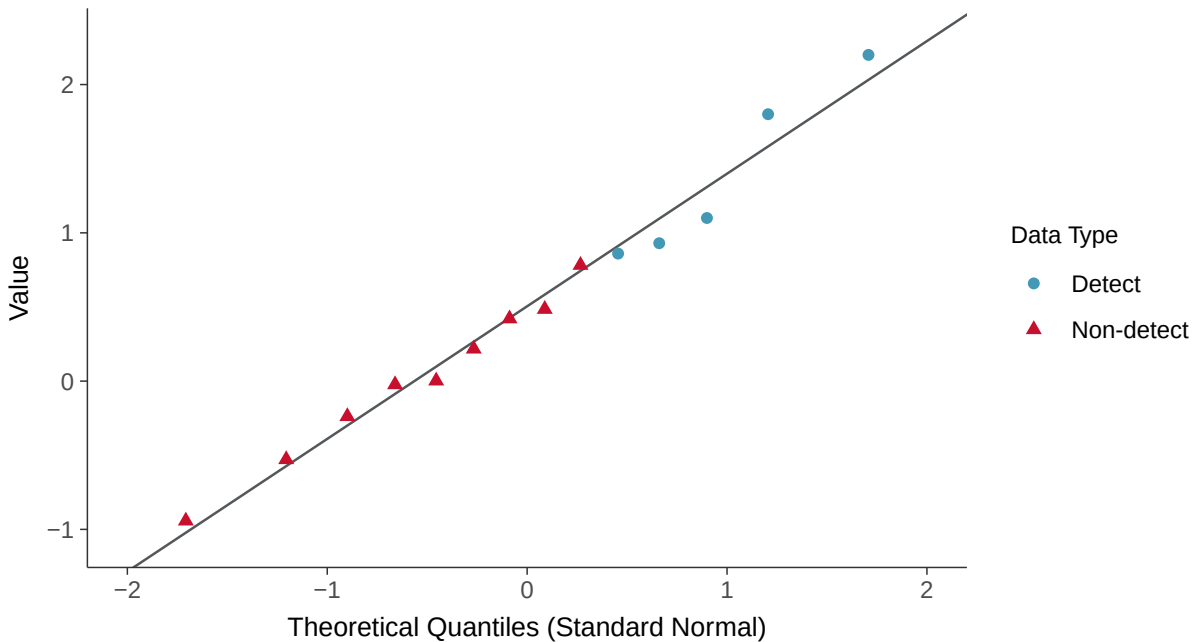
Sulfate (as SO₄), MW-02 (mg/L)





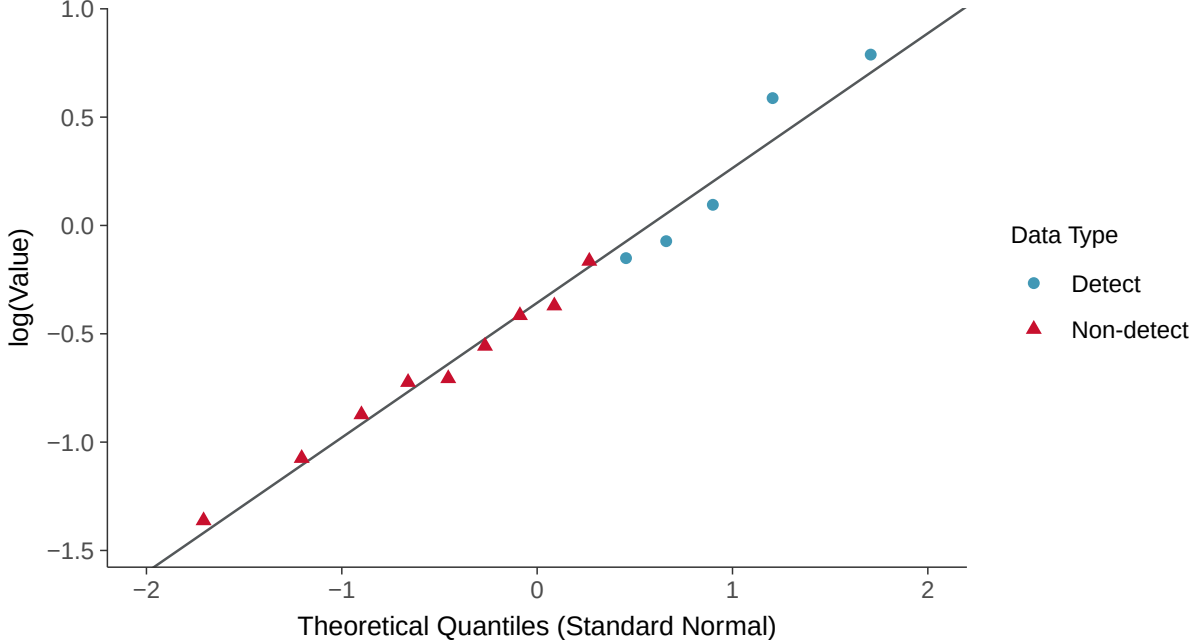
Normal Q-Q plot using ROS Imputed Estimates

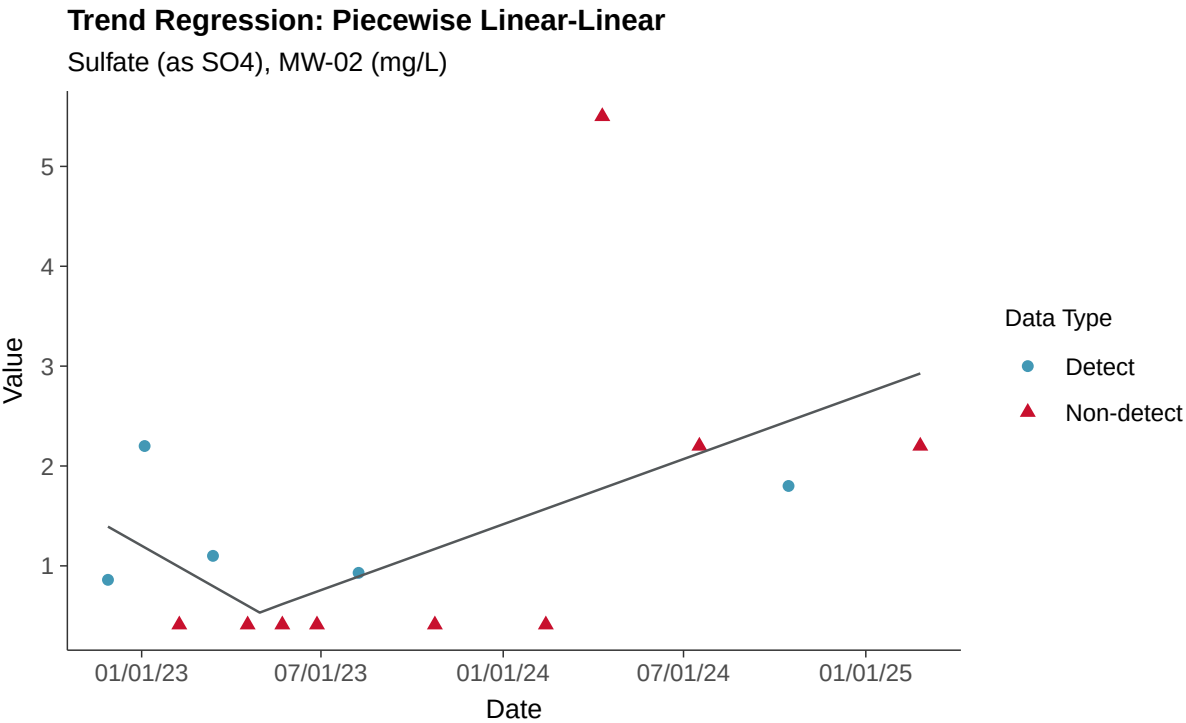
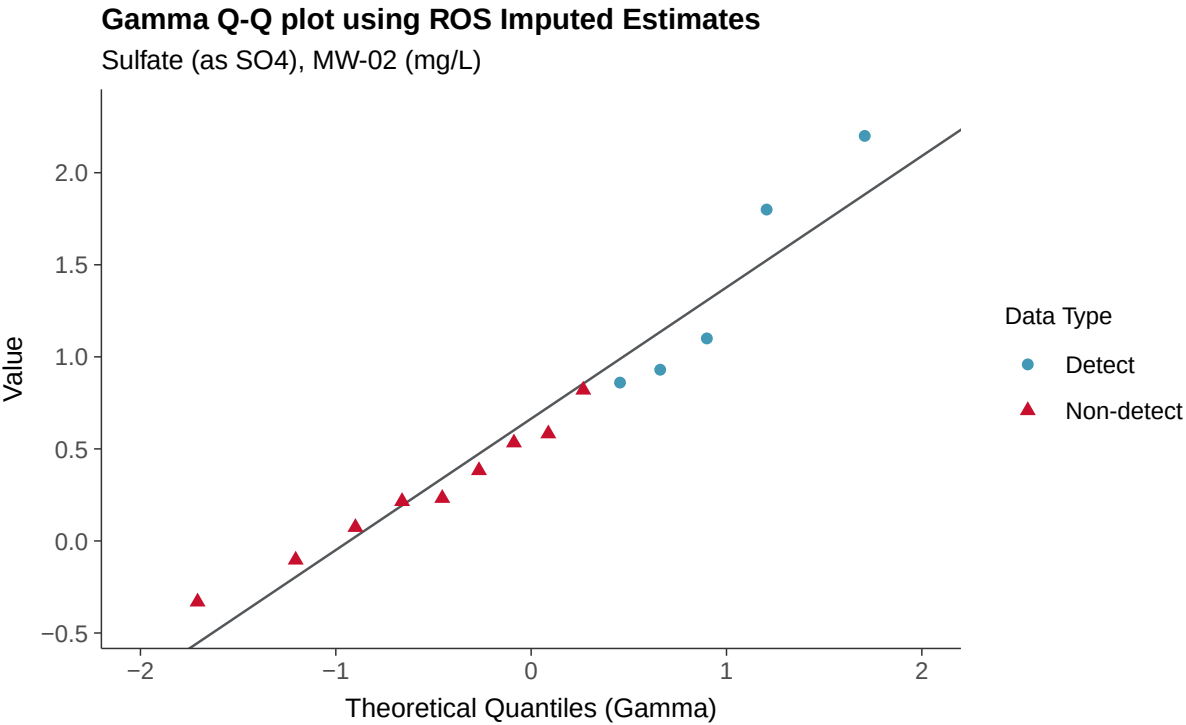
Sulfate (as SO₄), MW-02 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-02 (mg/L)

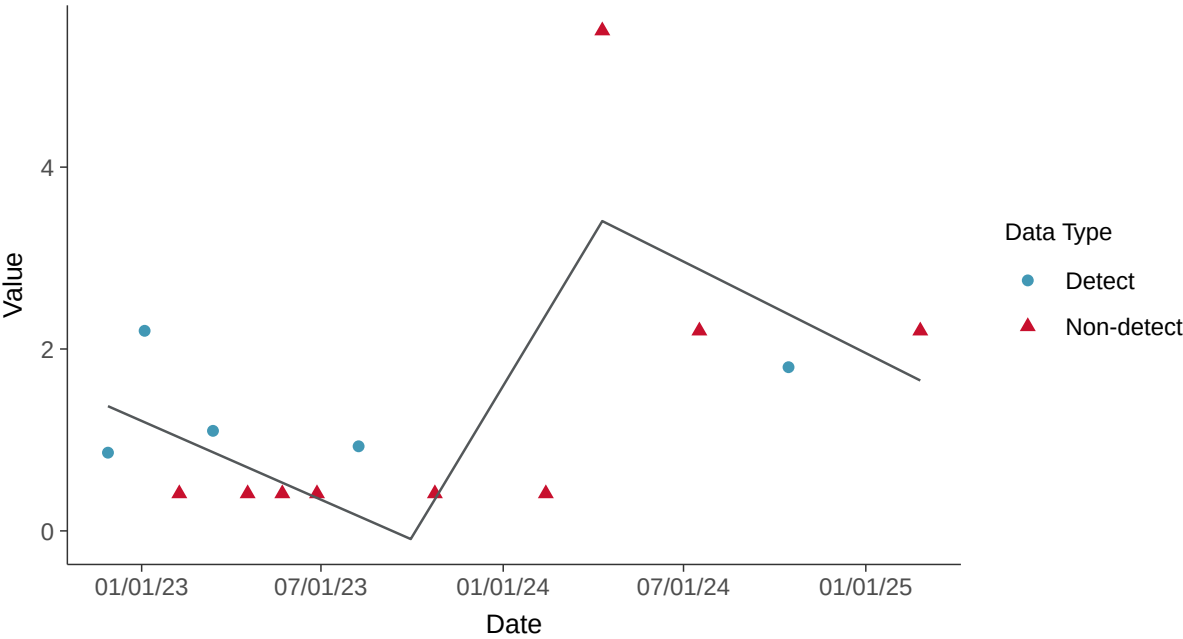






Trend Regression: Piecewise Linear-Linear-Linear

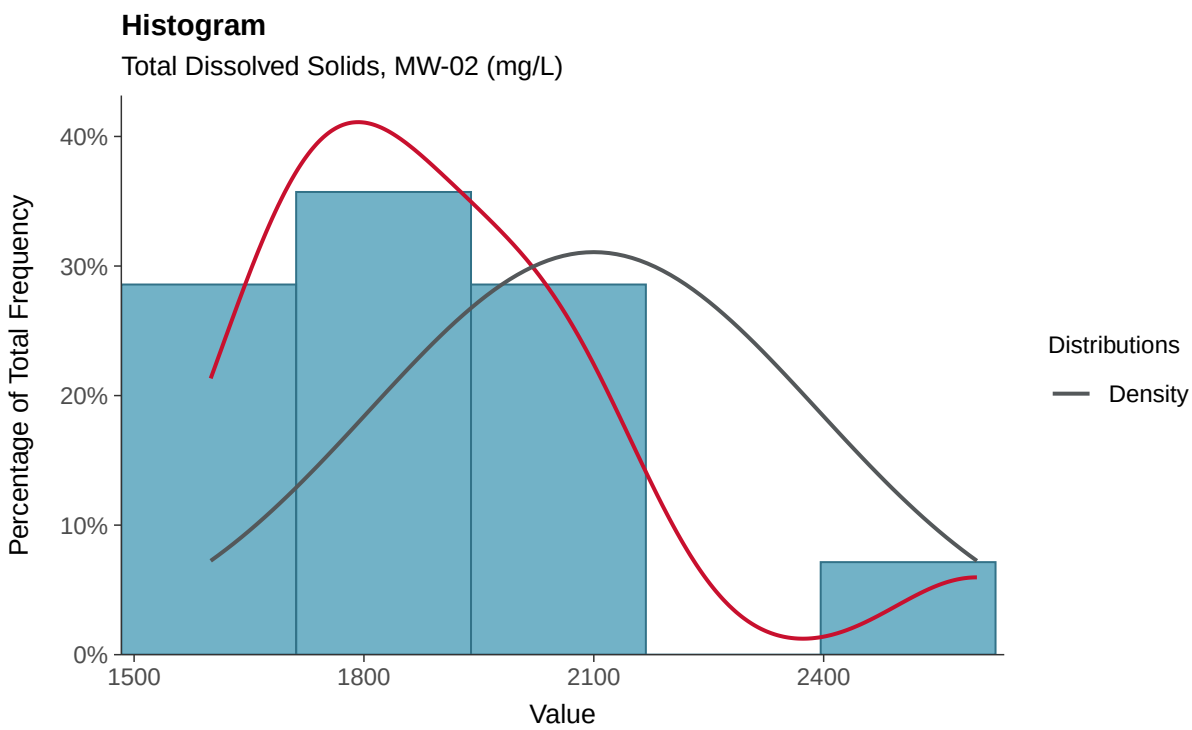
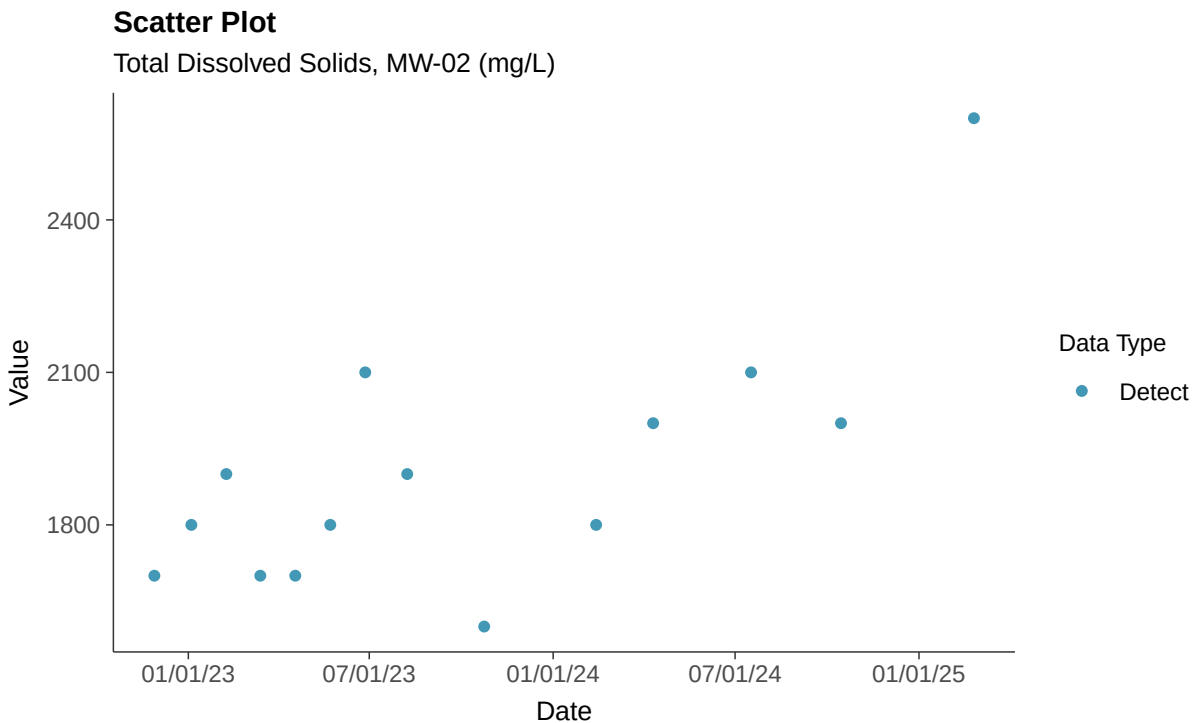
Sulfate (as SO₄), MW-02 (mg/L)

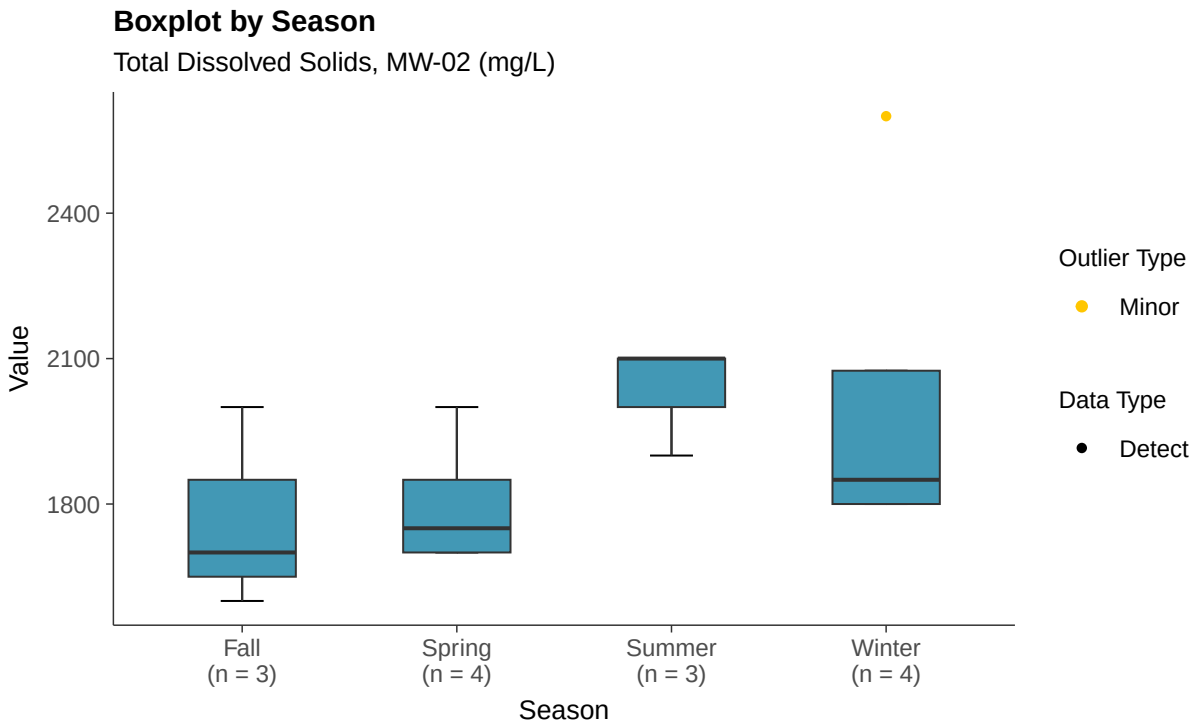
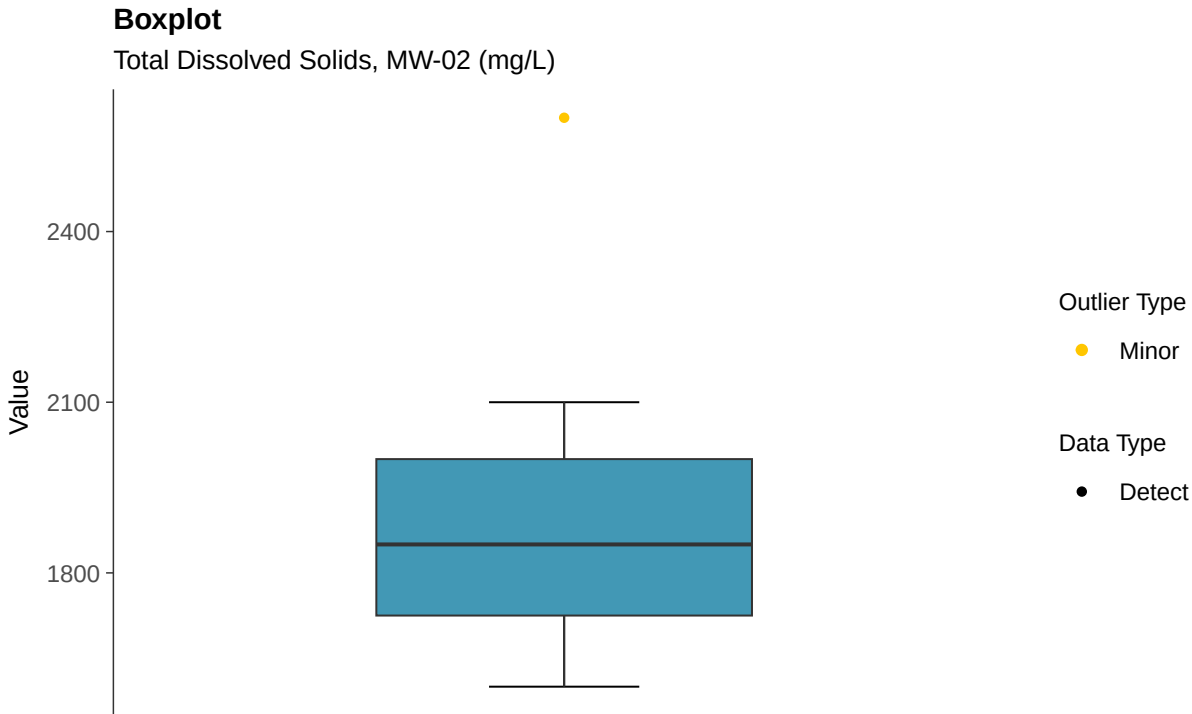


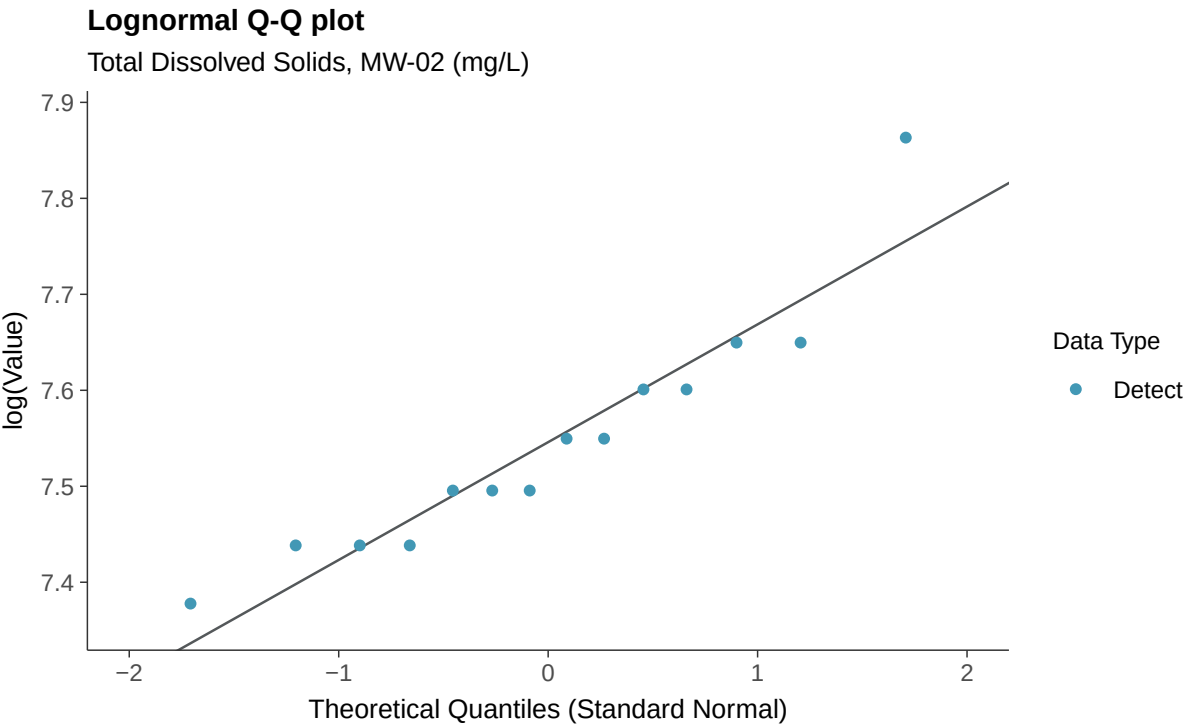
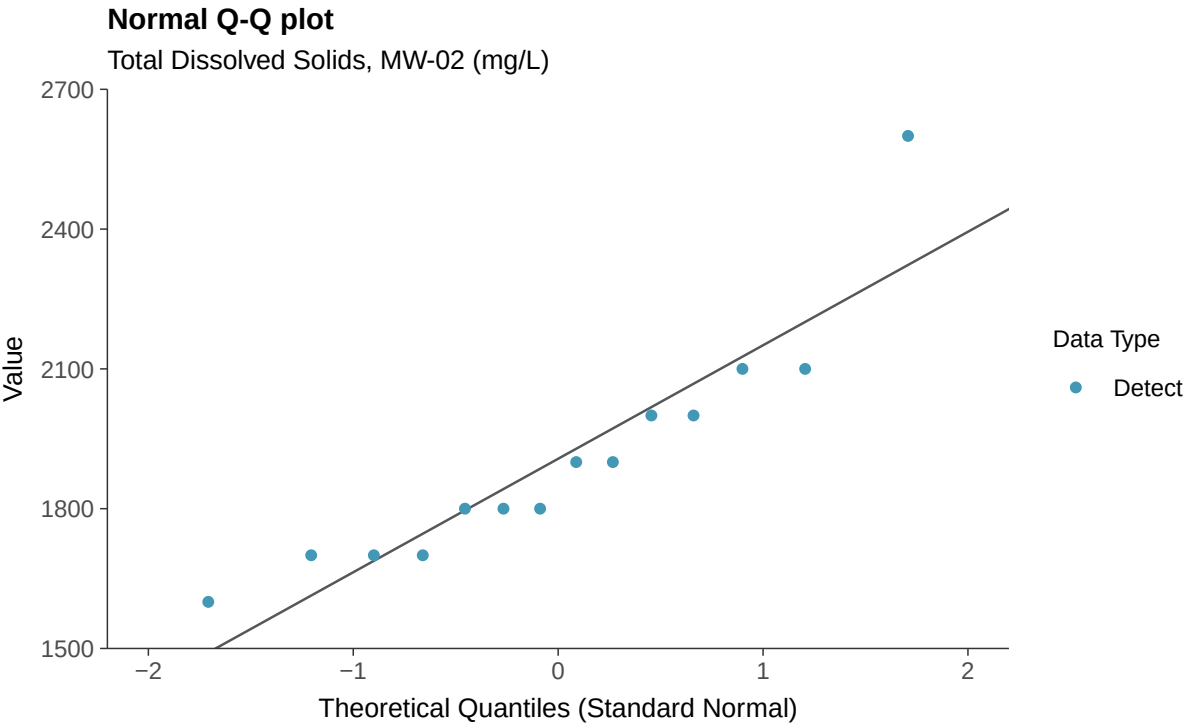


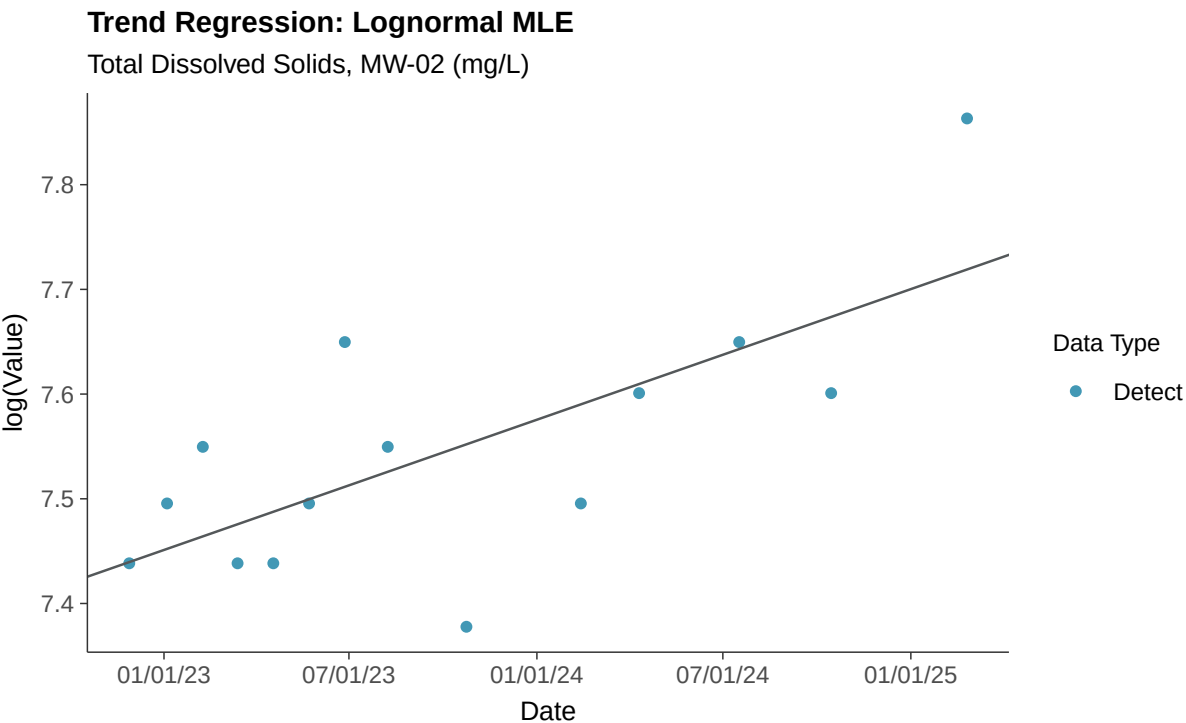
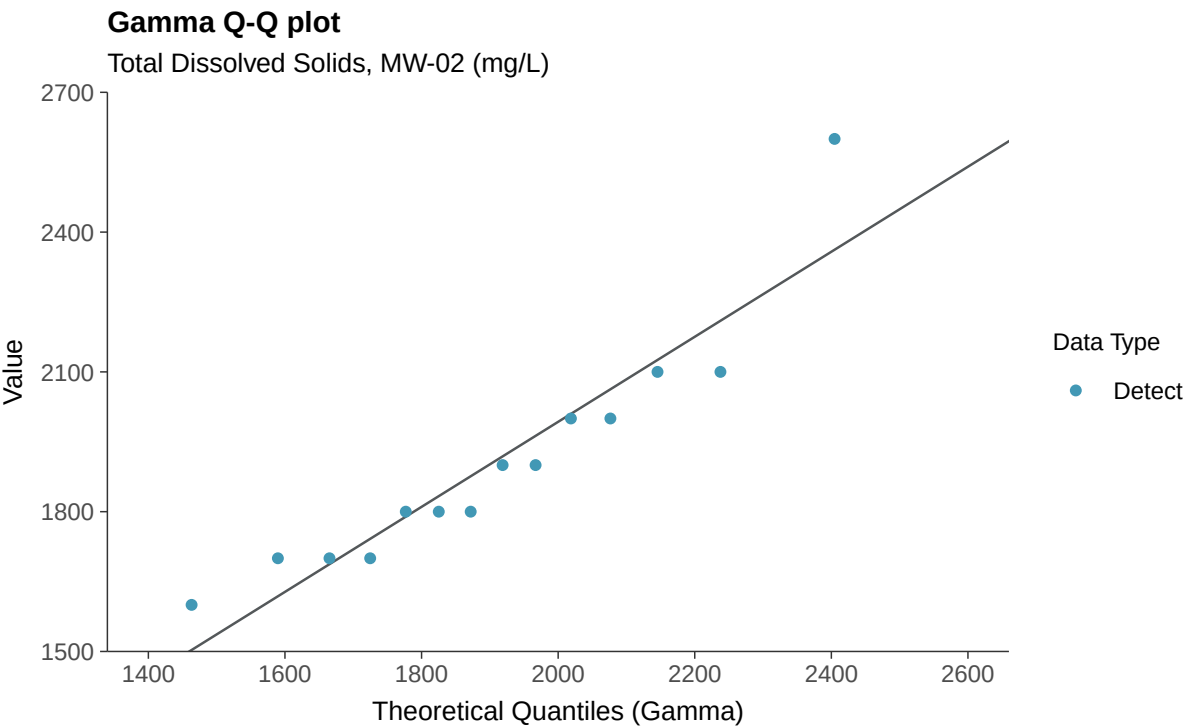
Appendix III: Total Dissolved Solids, MW-02

ID: 12_2_3_126





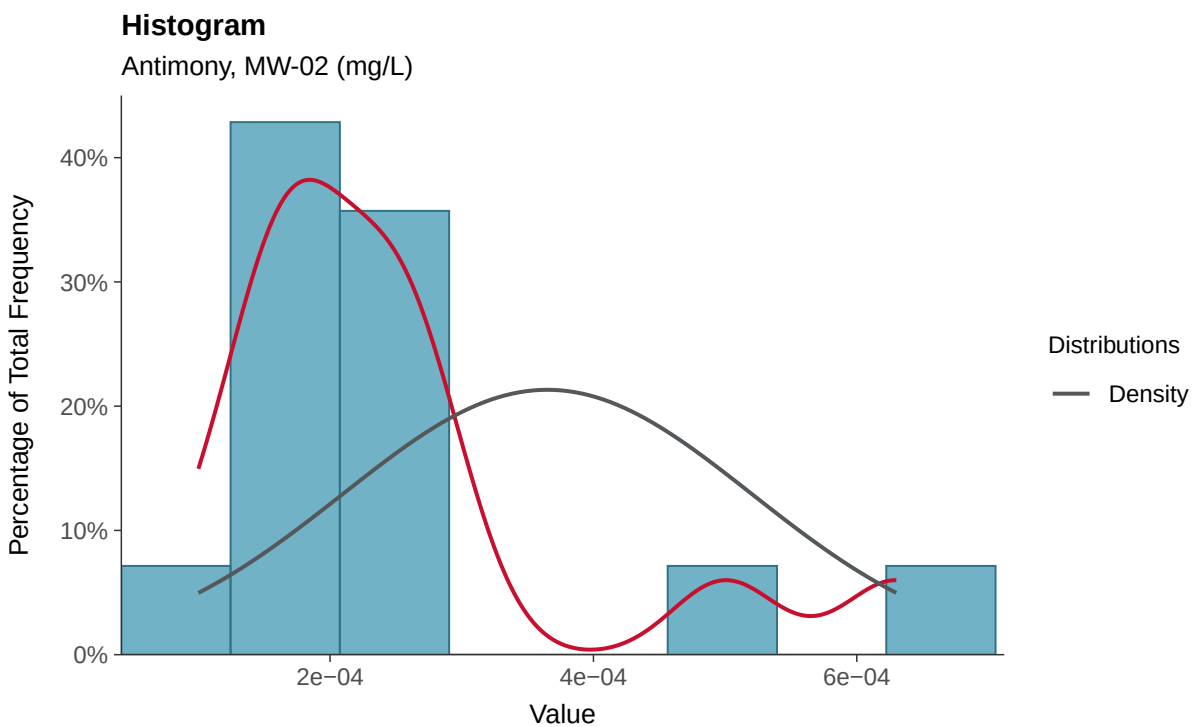
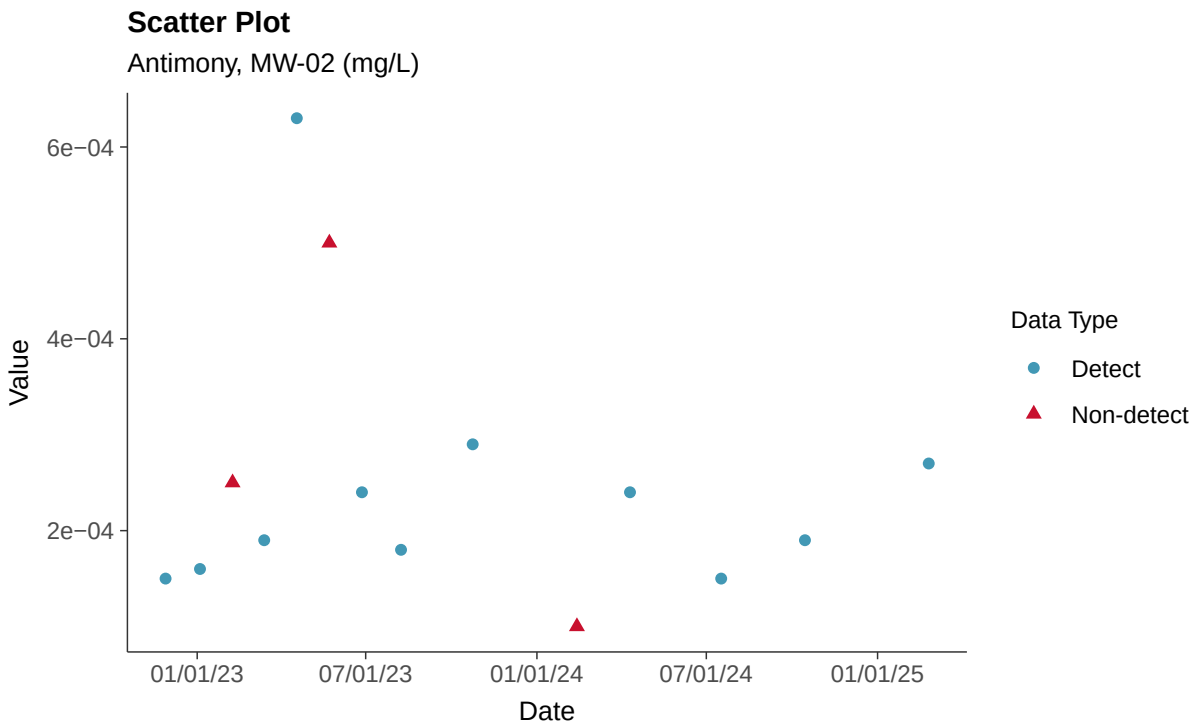


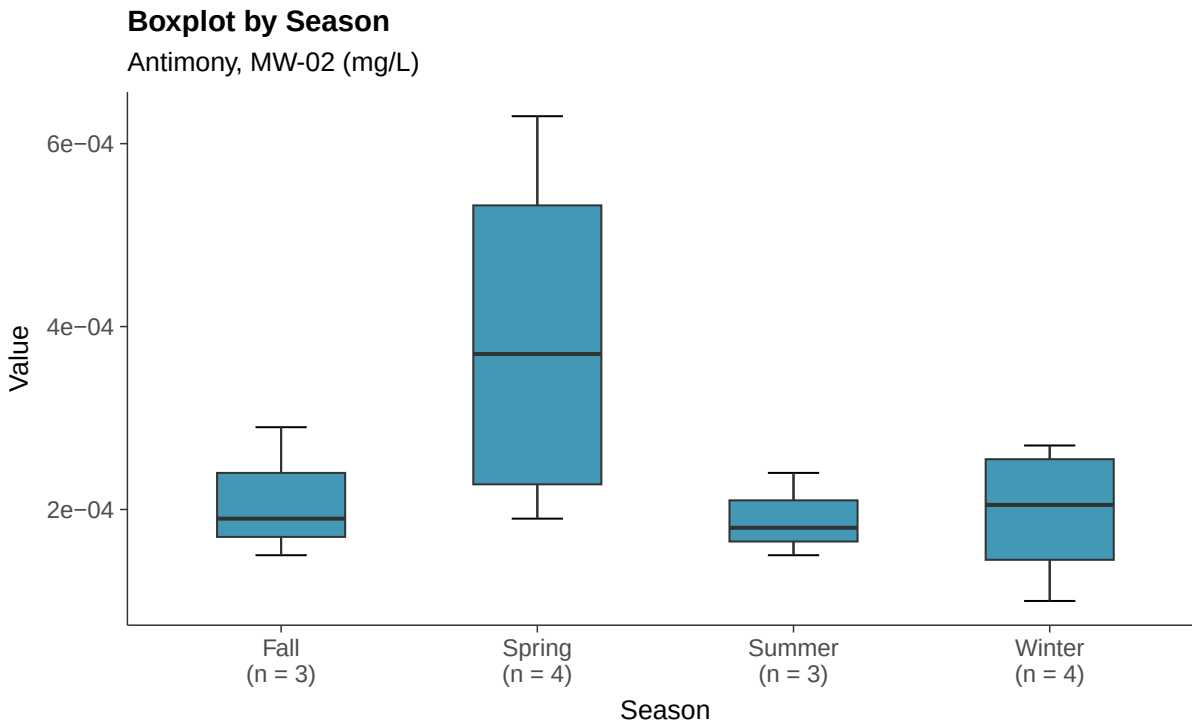
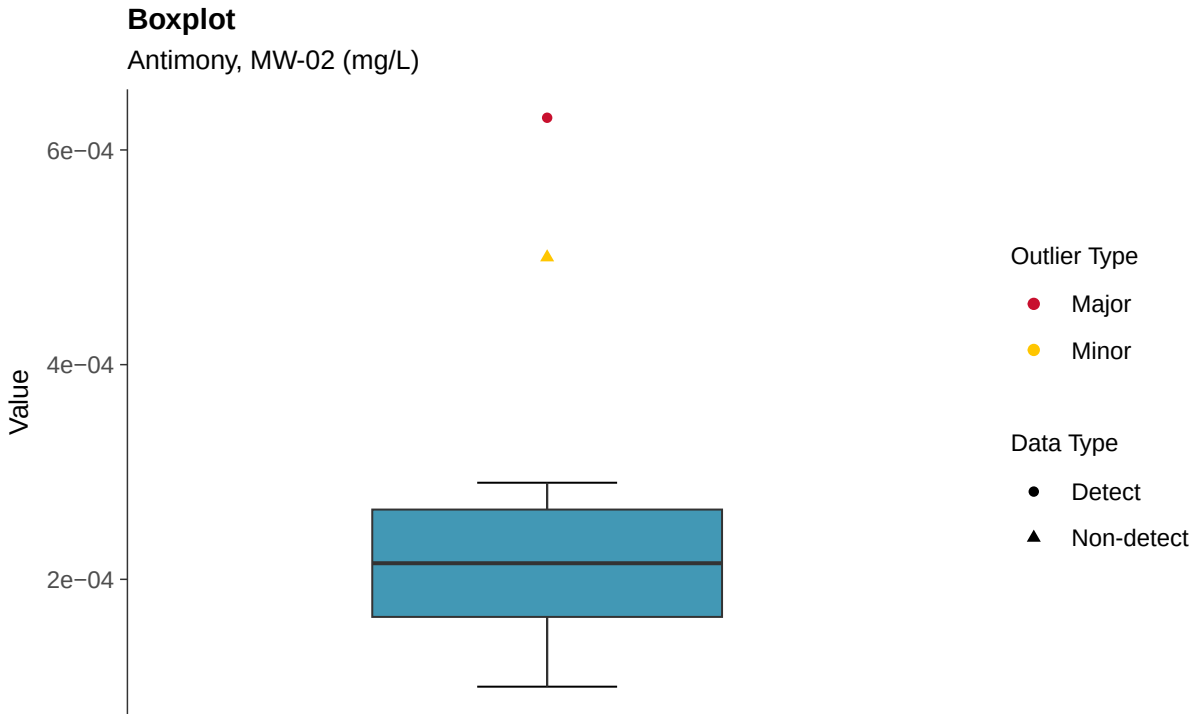




Appendix IV: Antimony, MW-02

ID: 12_2_4_101

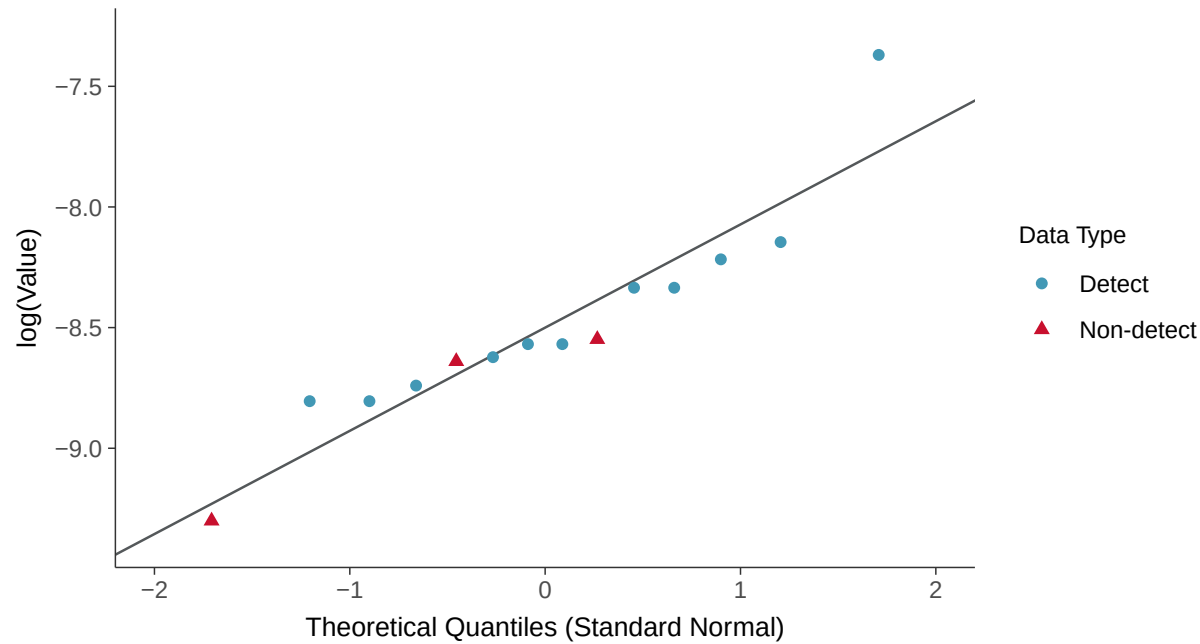






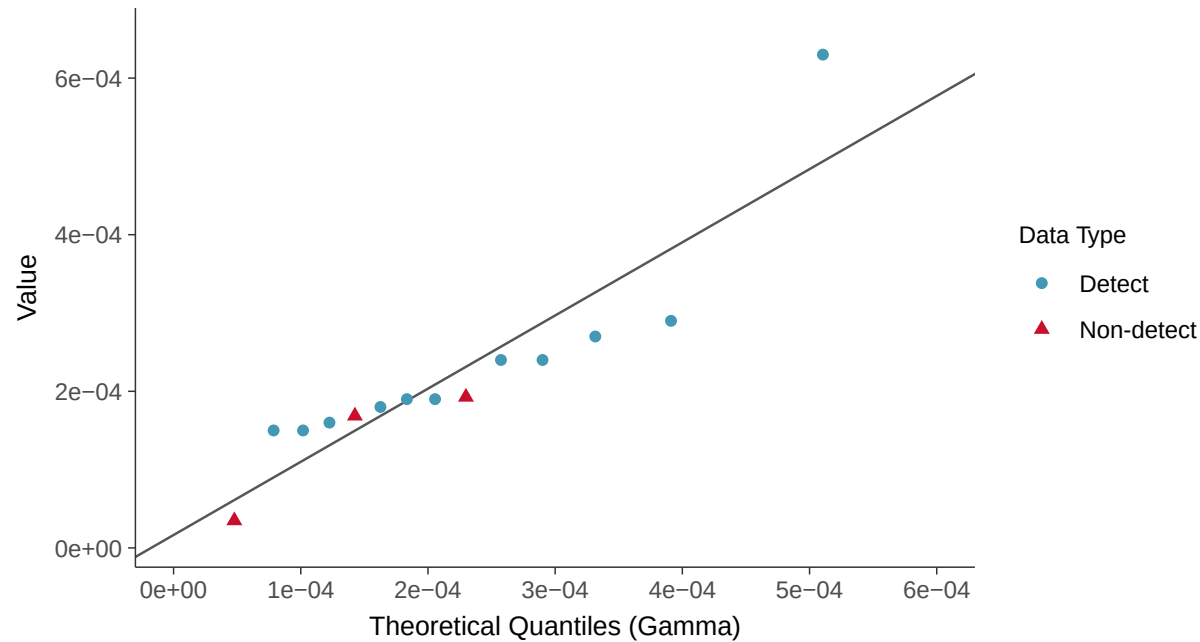
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-02 (mg/L)

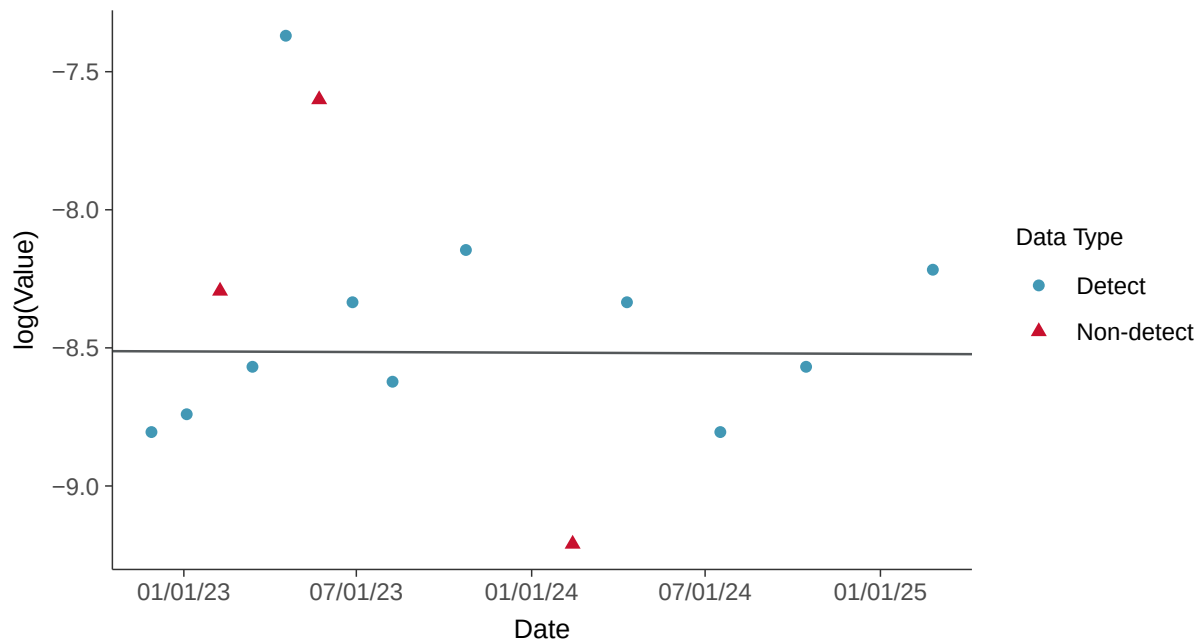


Gamma Q-Q plot using ROS Imputed Estimates

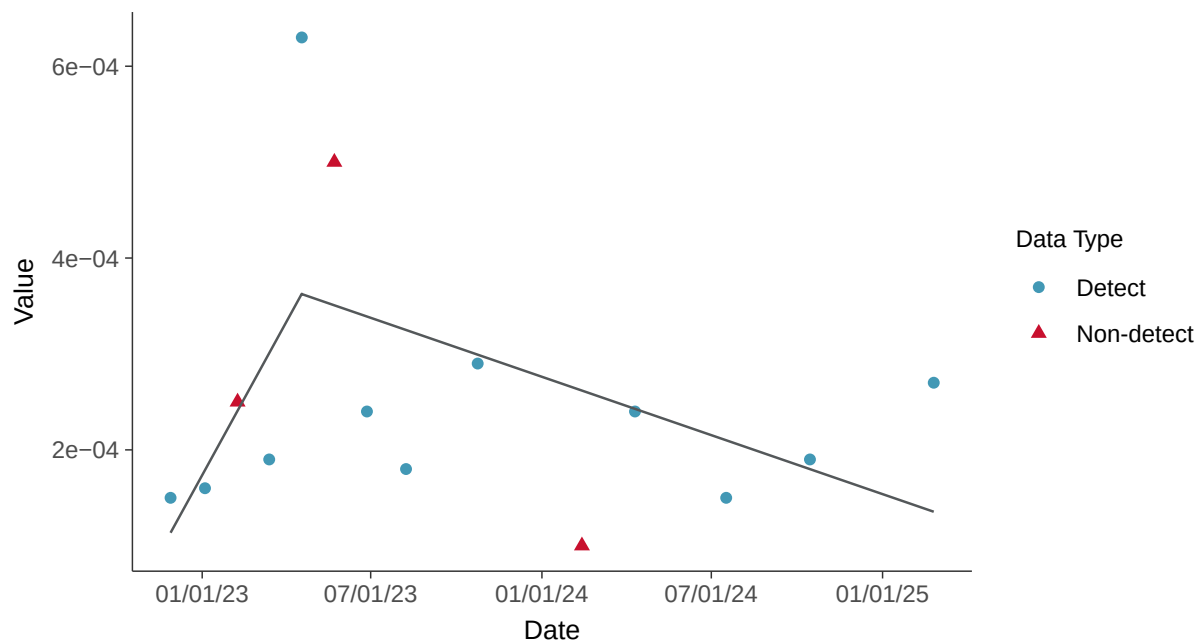
Antimony, MW-02 (mg/L)

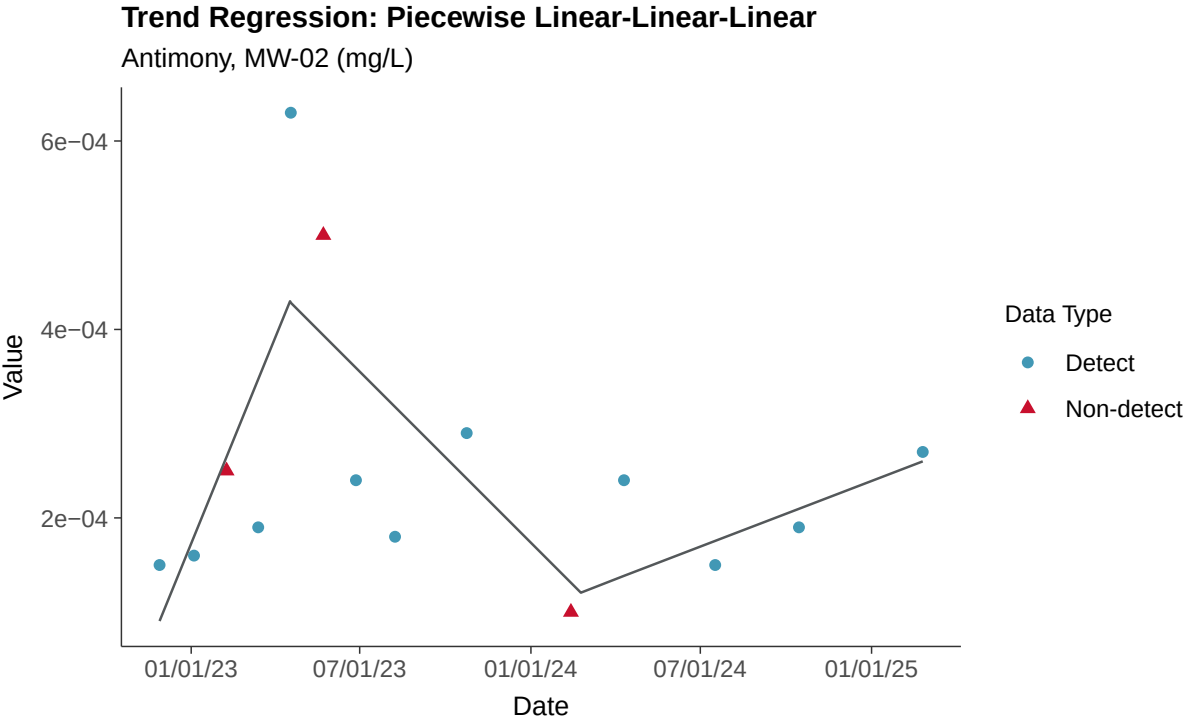


Antimony, MW-02 (mg/L)



Antimony, MW-02 (mg/L)

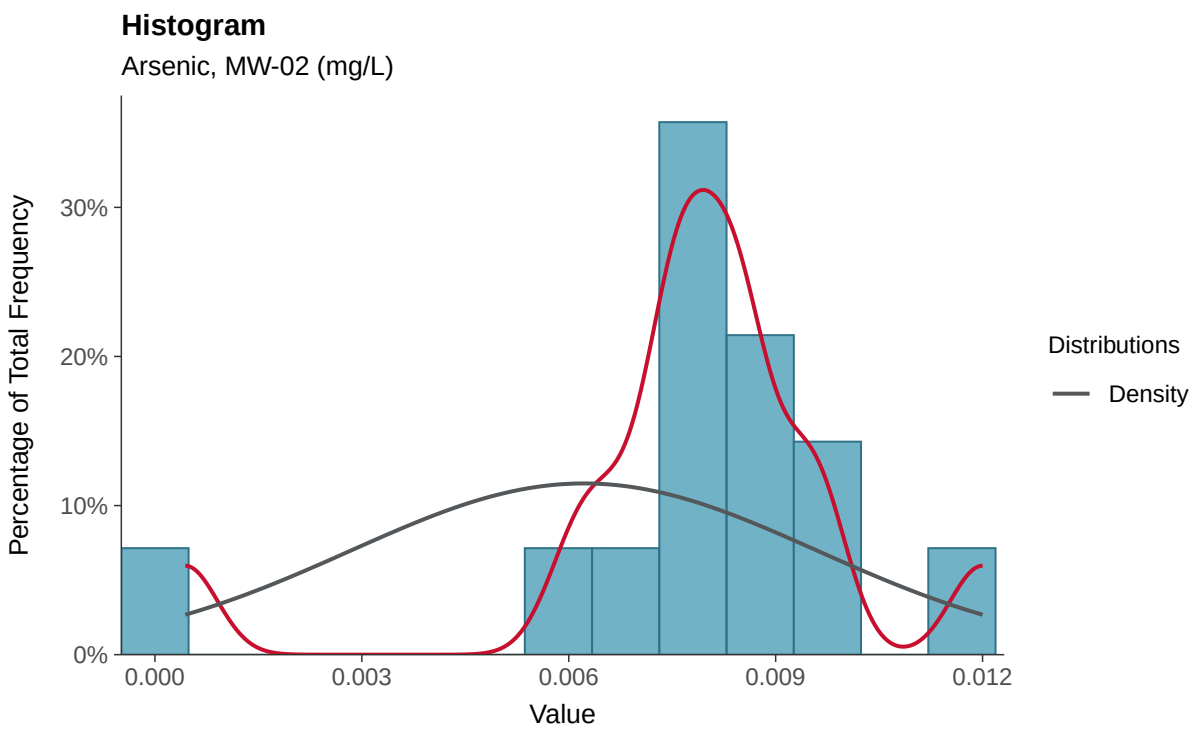
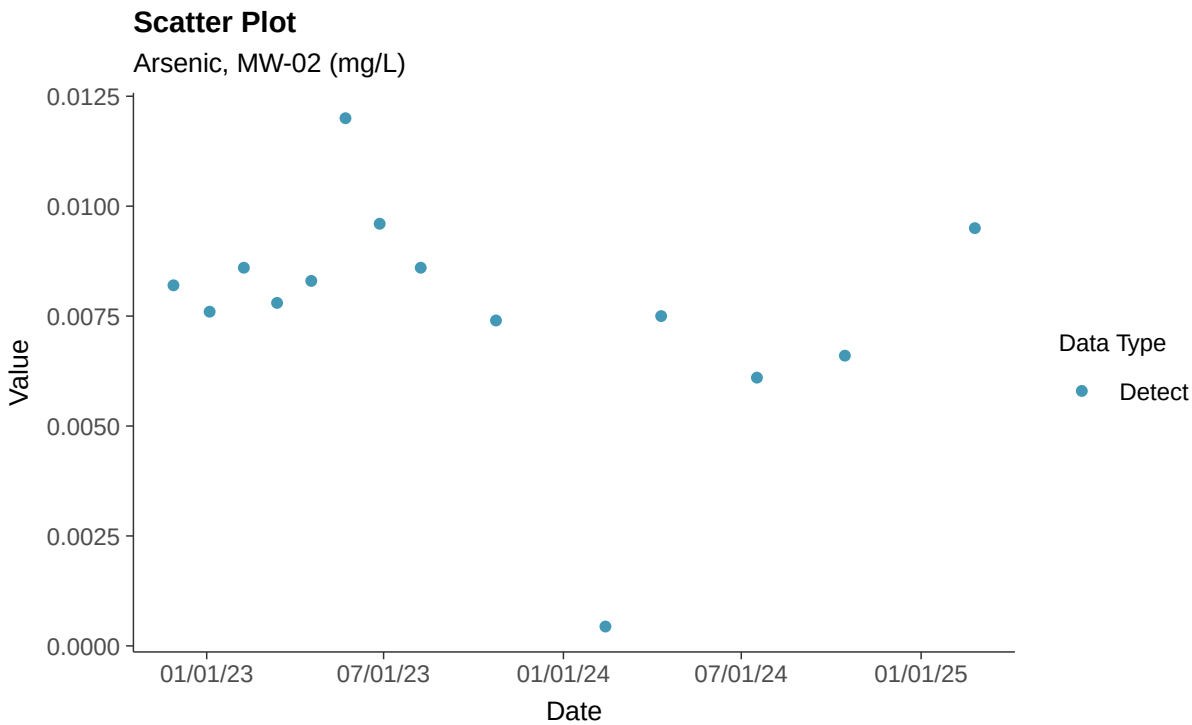


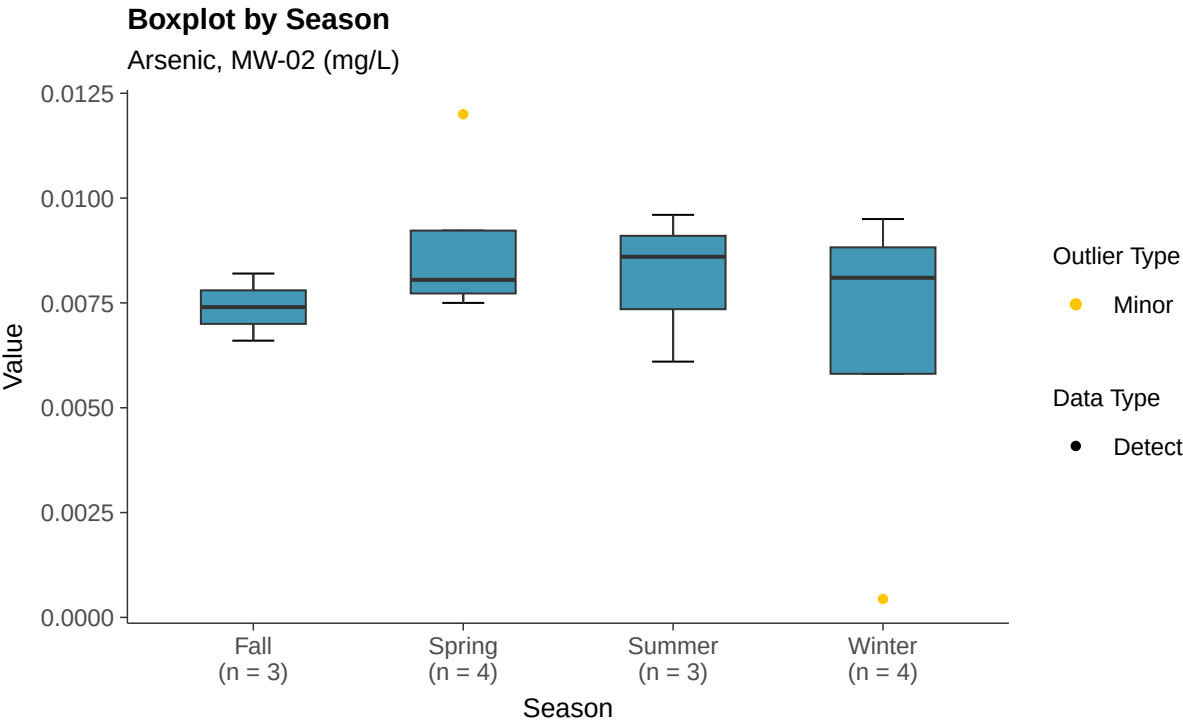
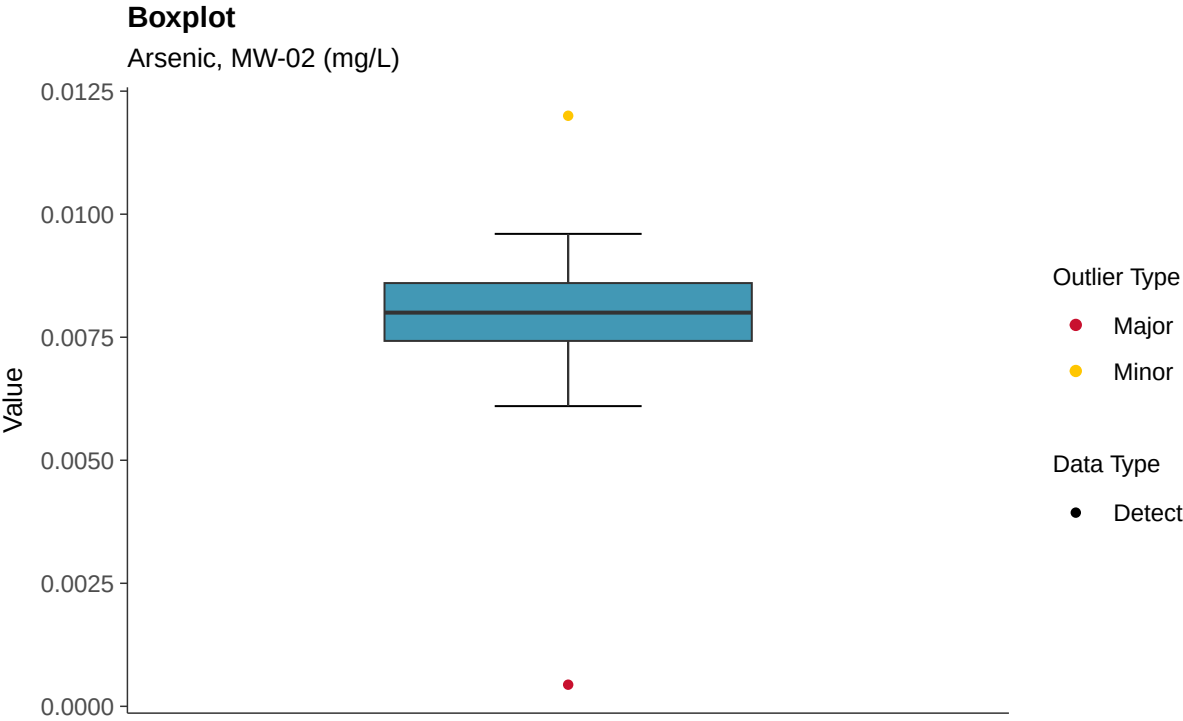


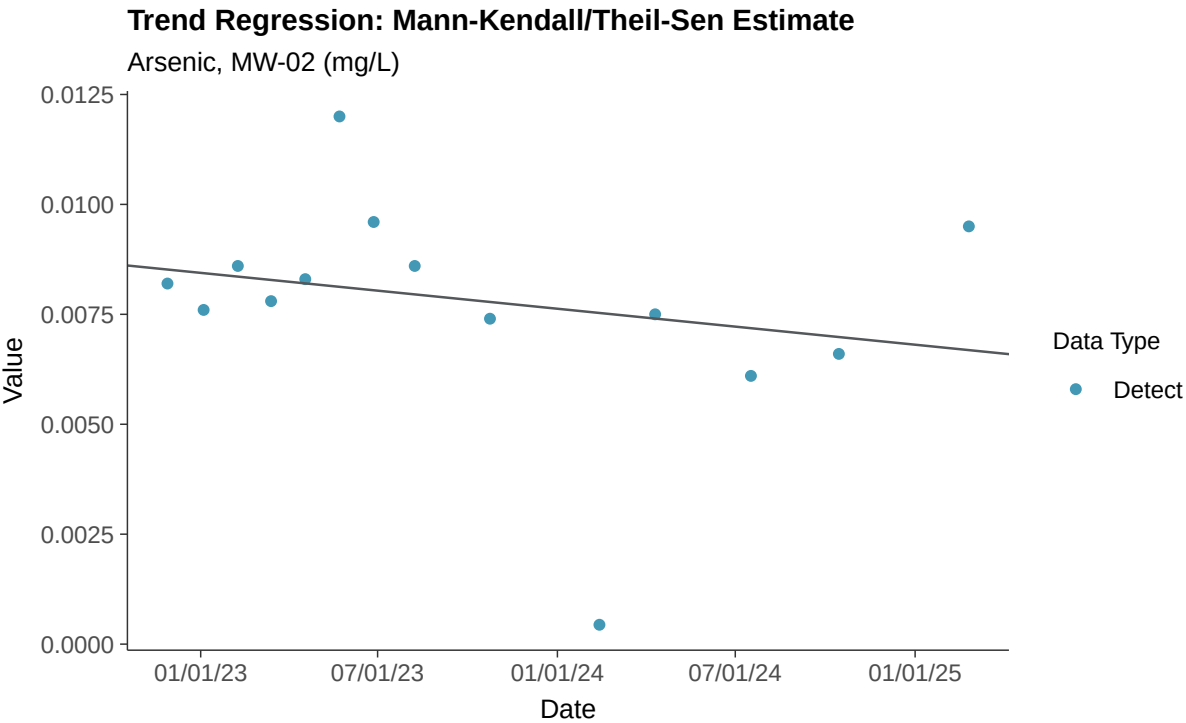
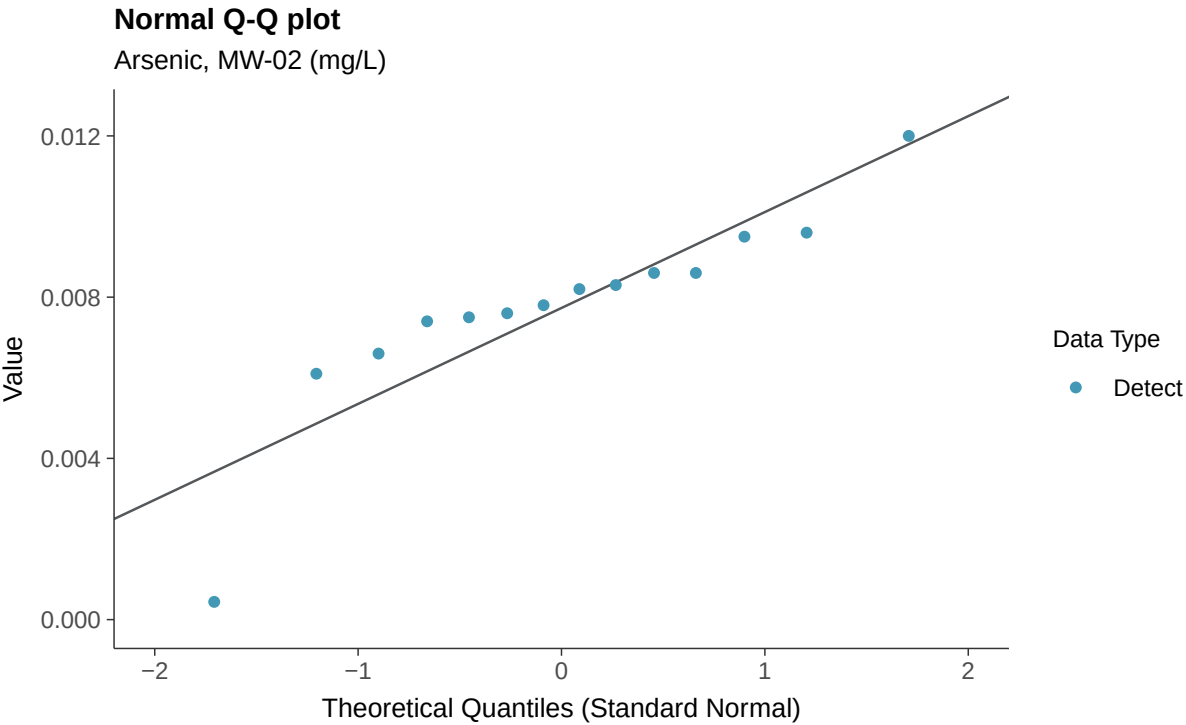


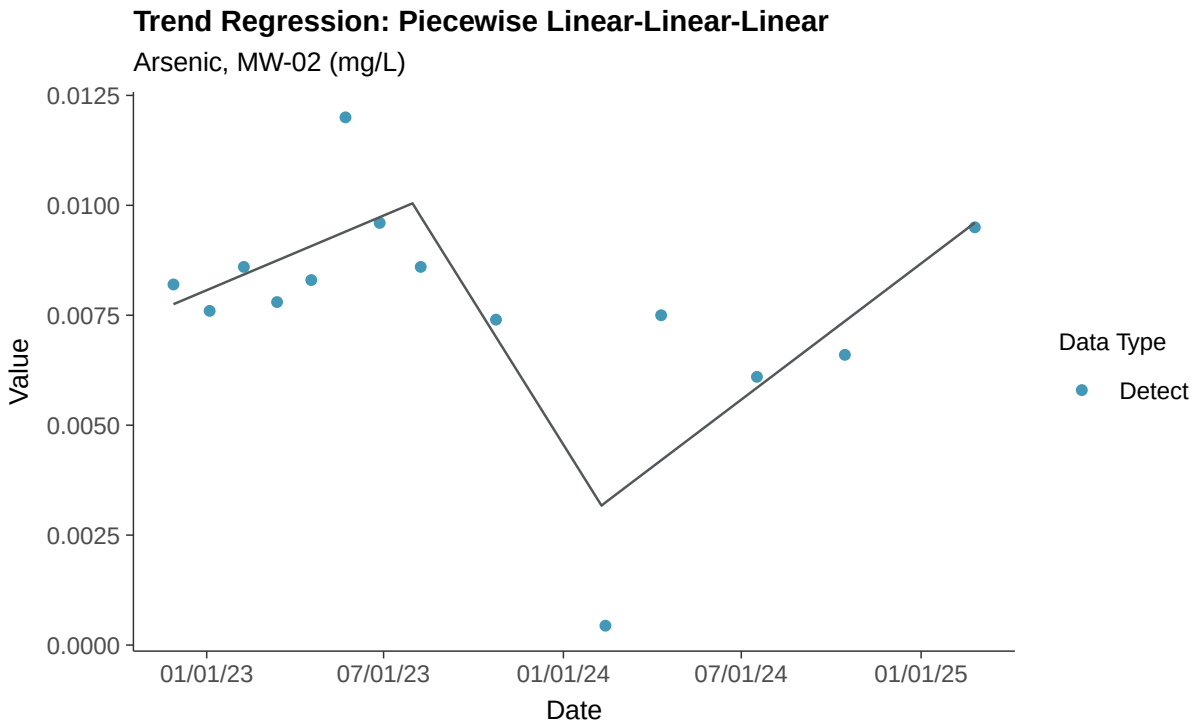
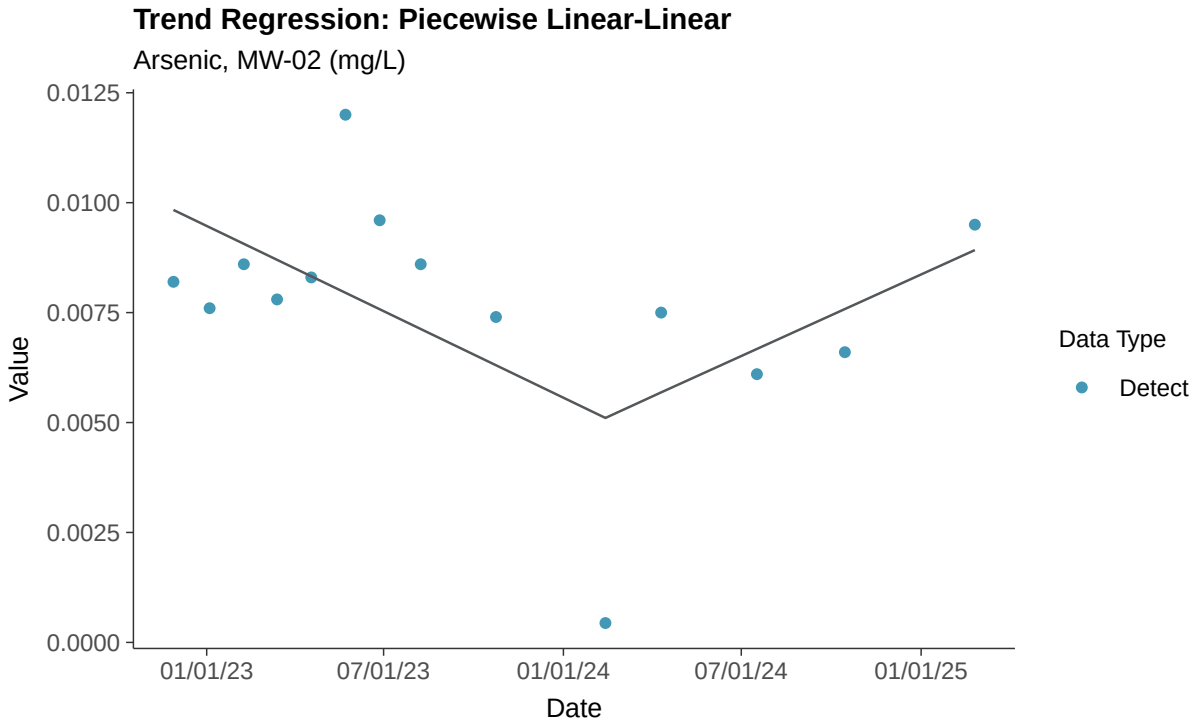
Appendix IV: Arsenic, MW-02

ID: 12_2_4_102





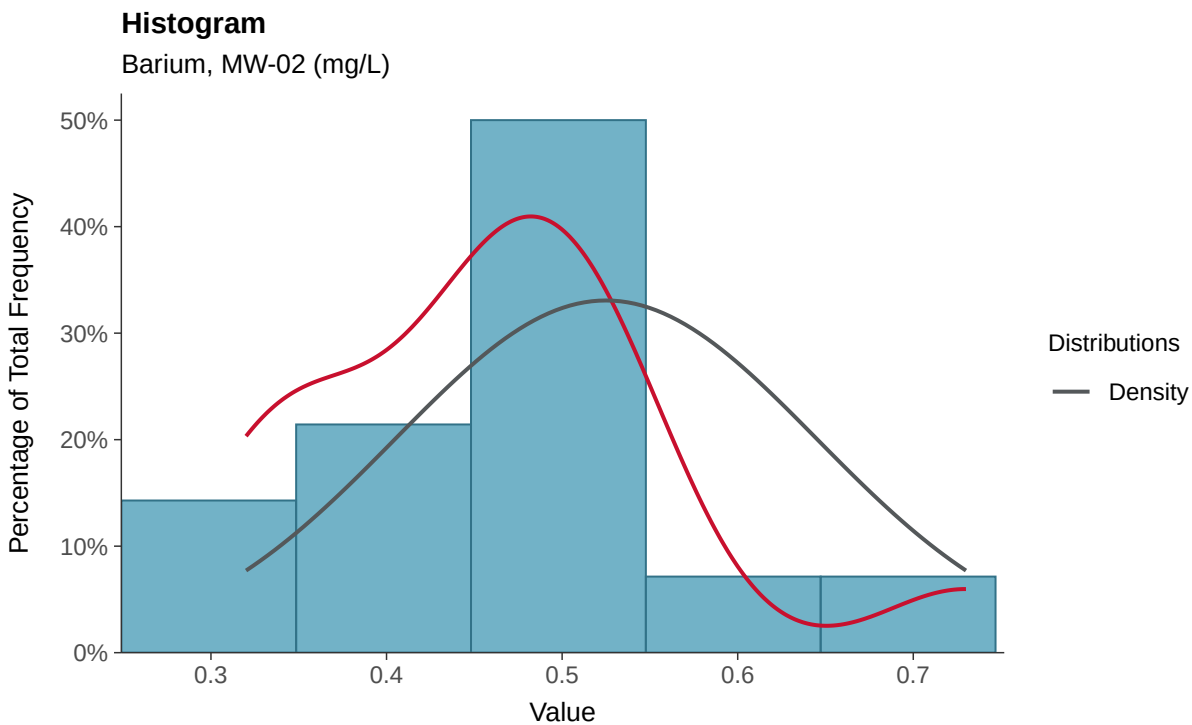
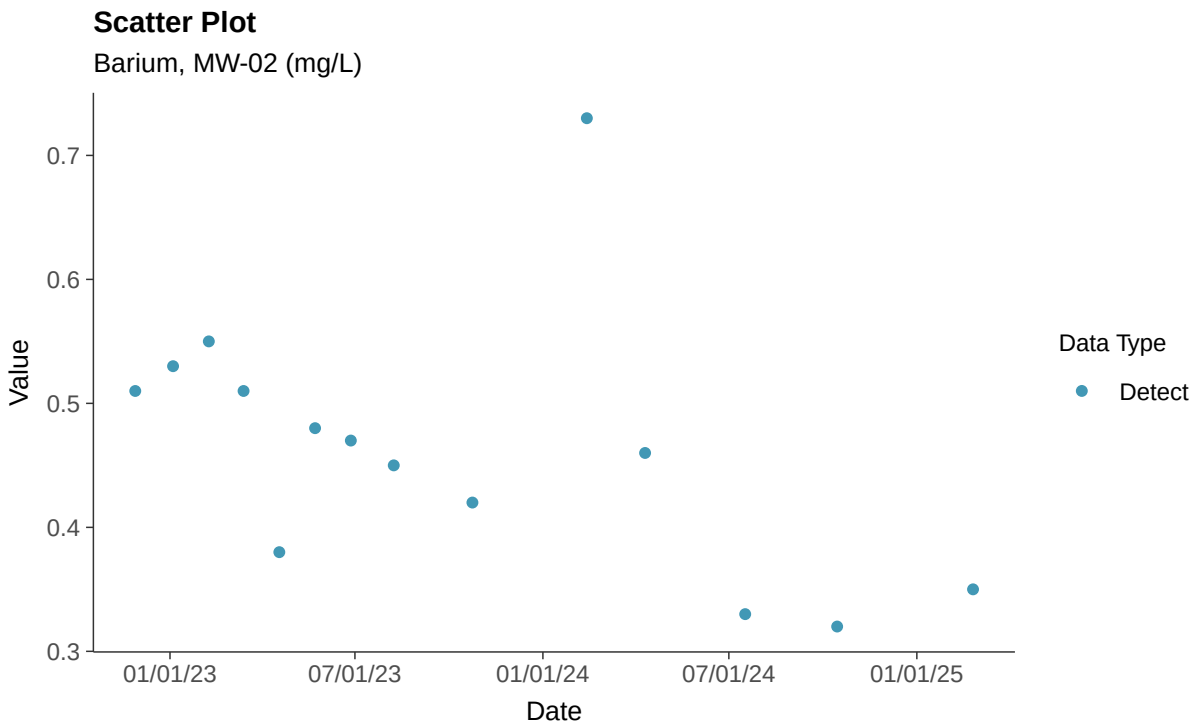


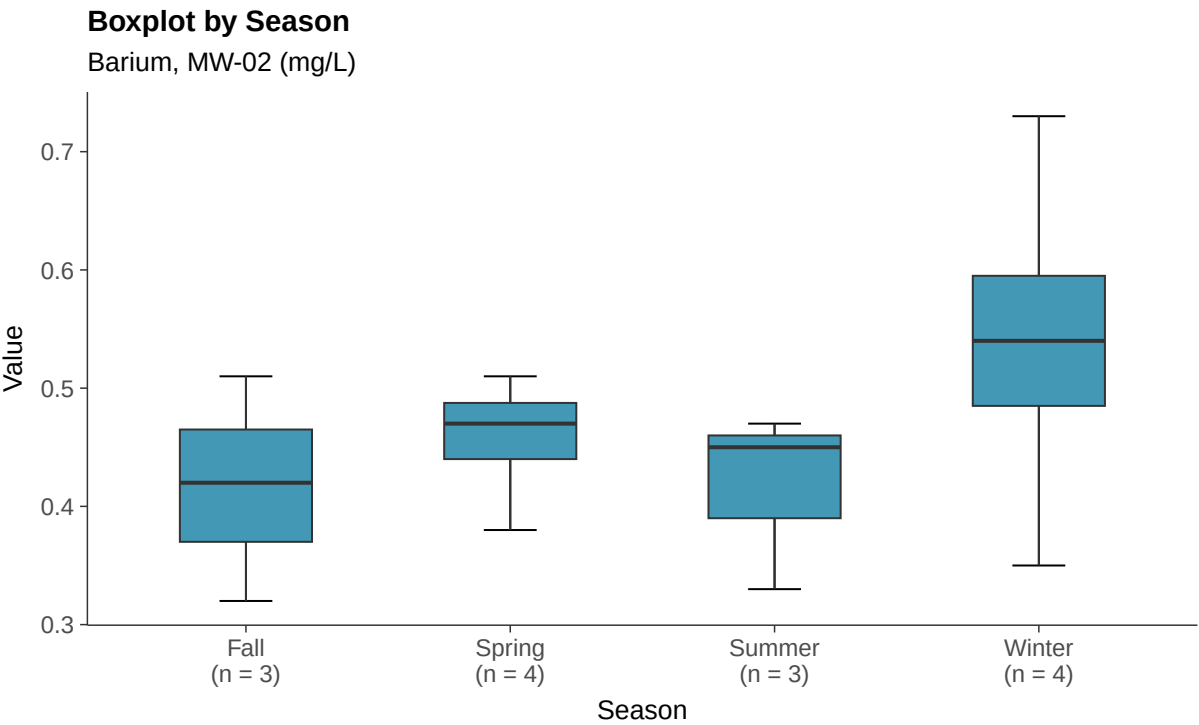
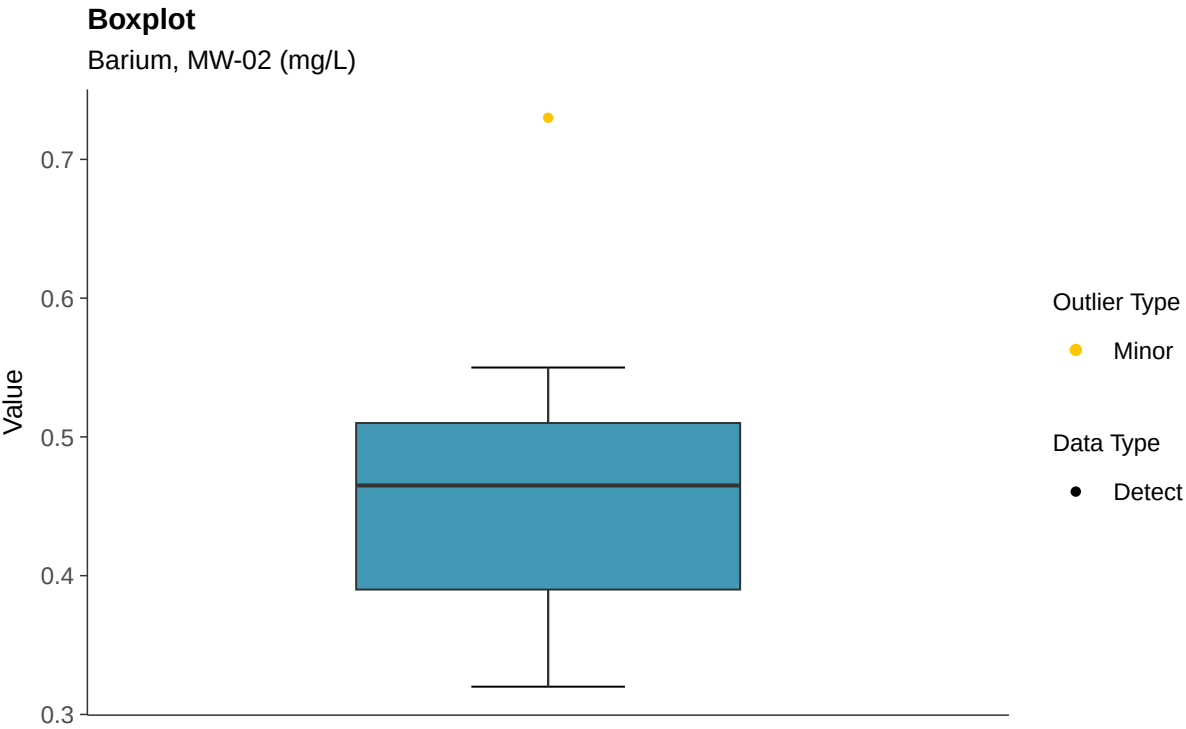


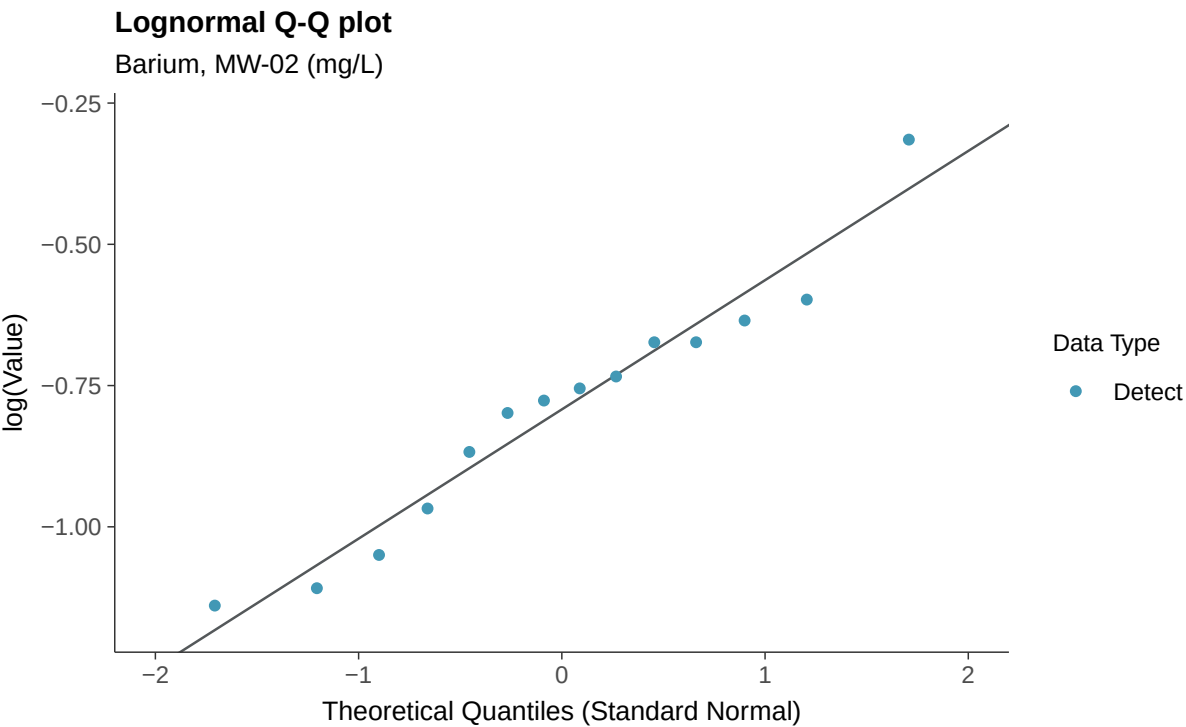
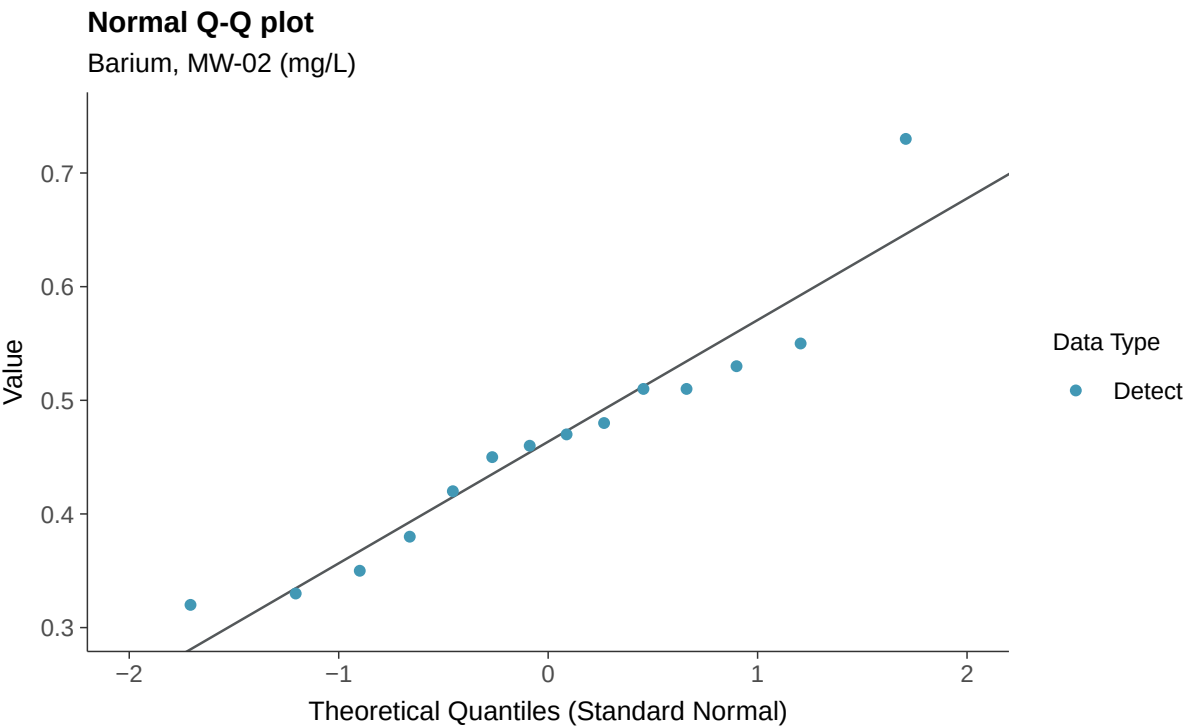


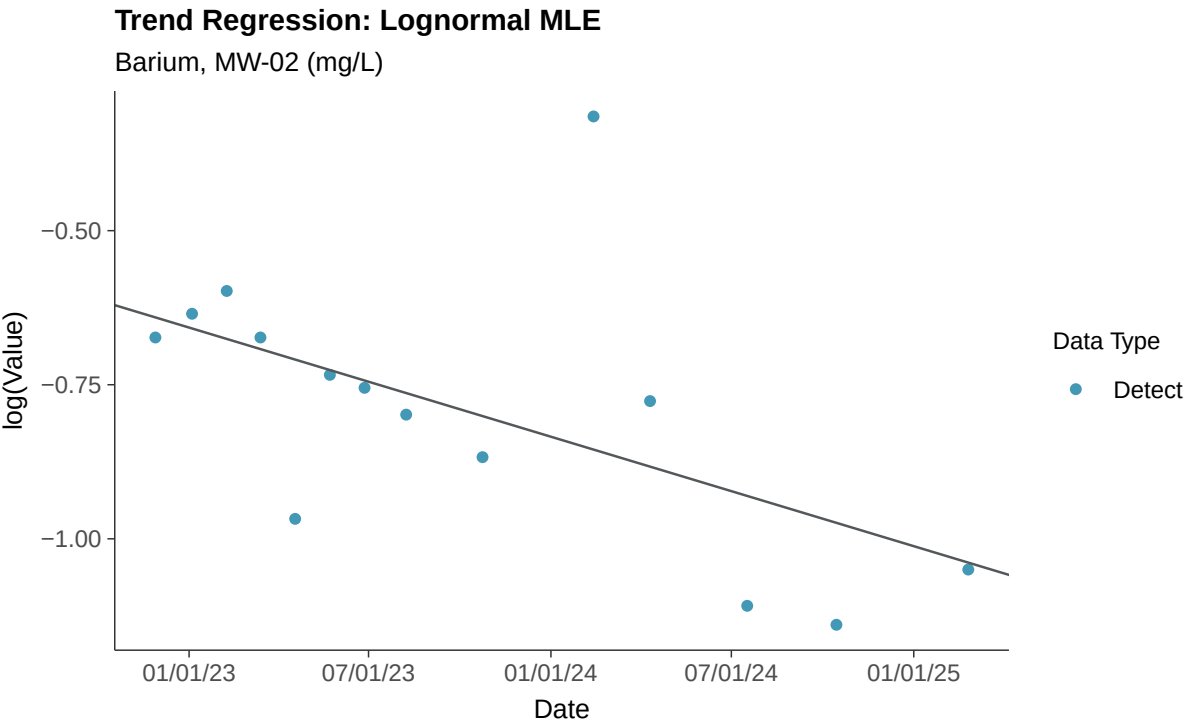
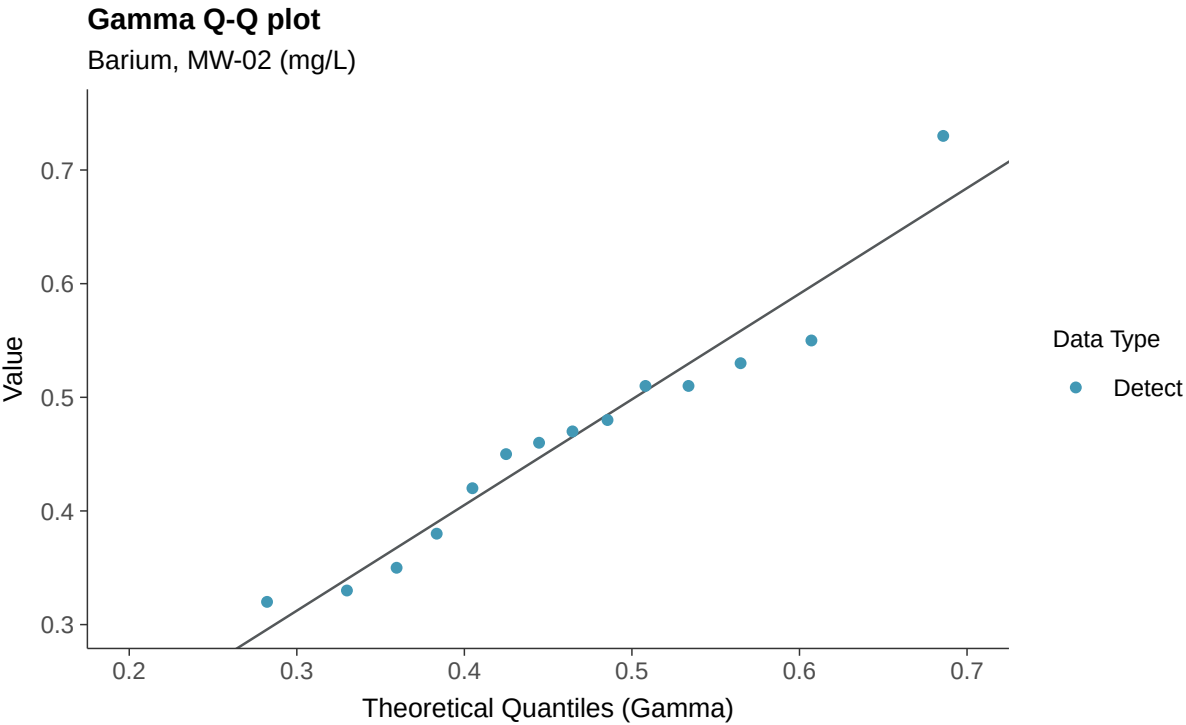
Appendix IV: Barium, MW-02

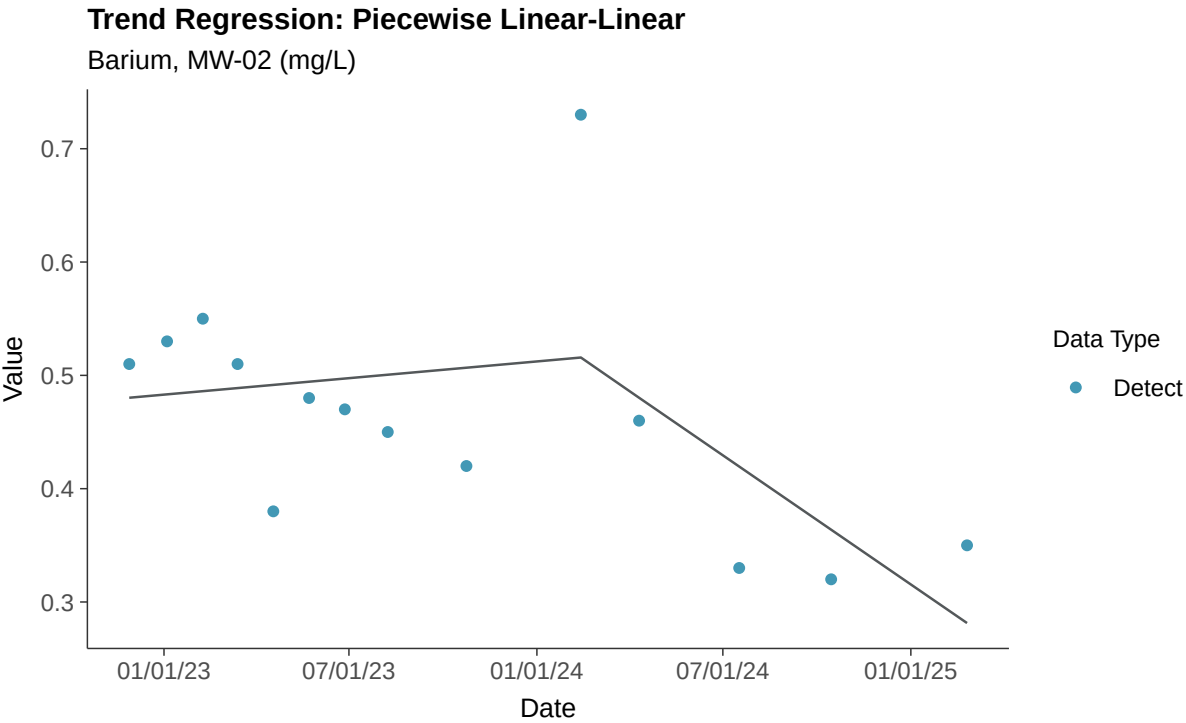
ID: 12_2_4_103







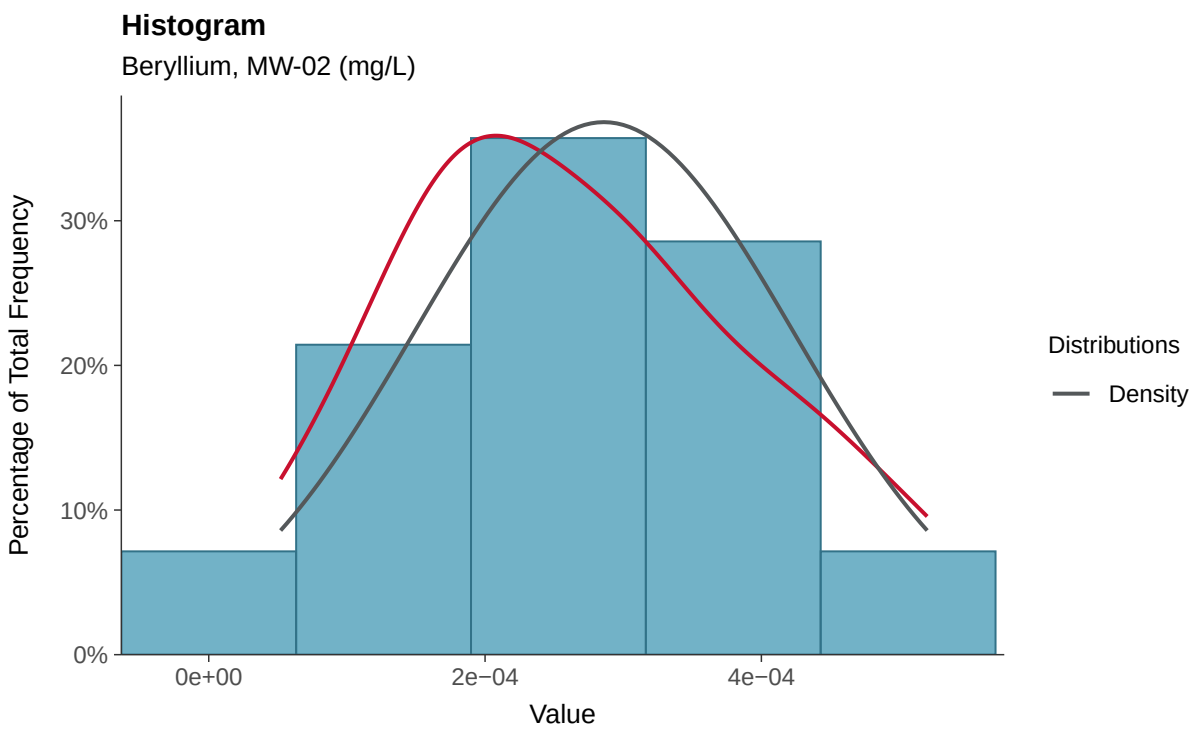
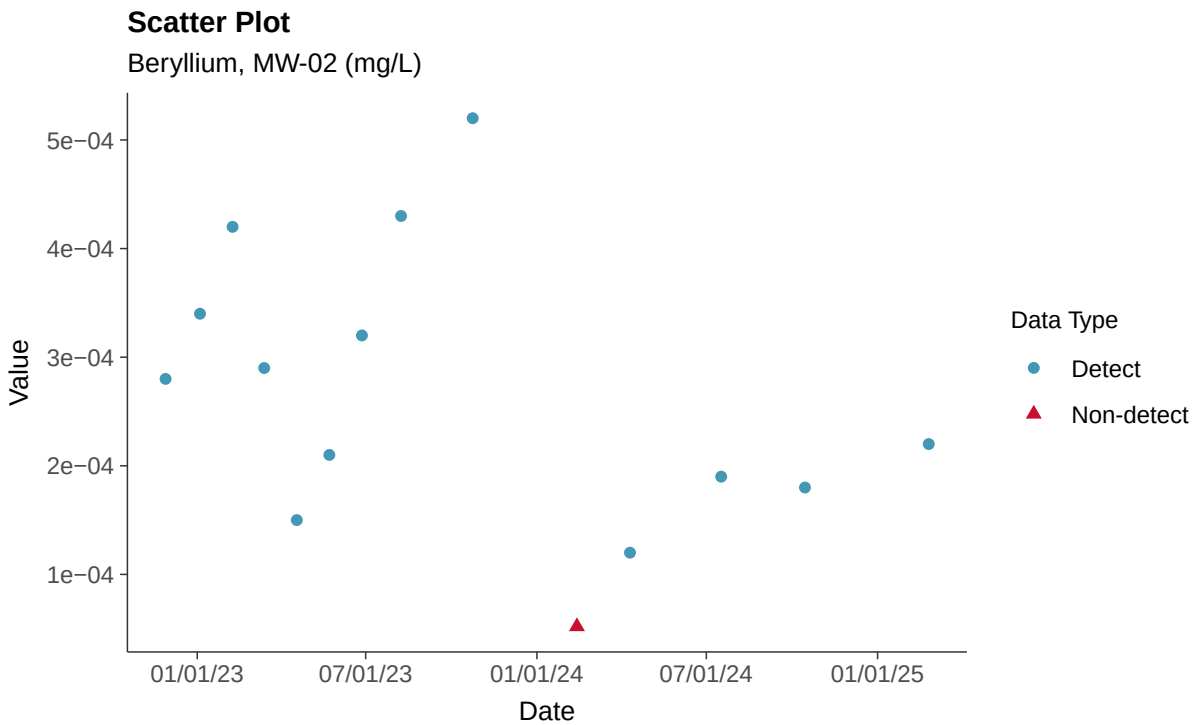


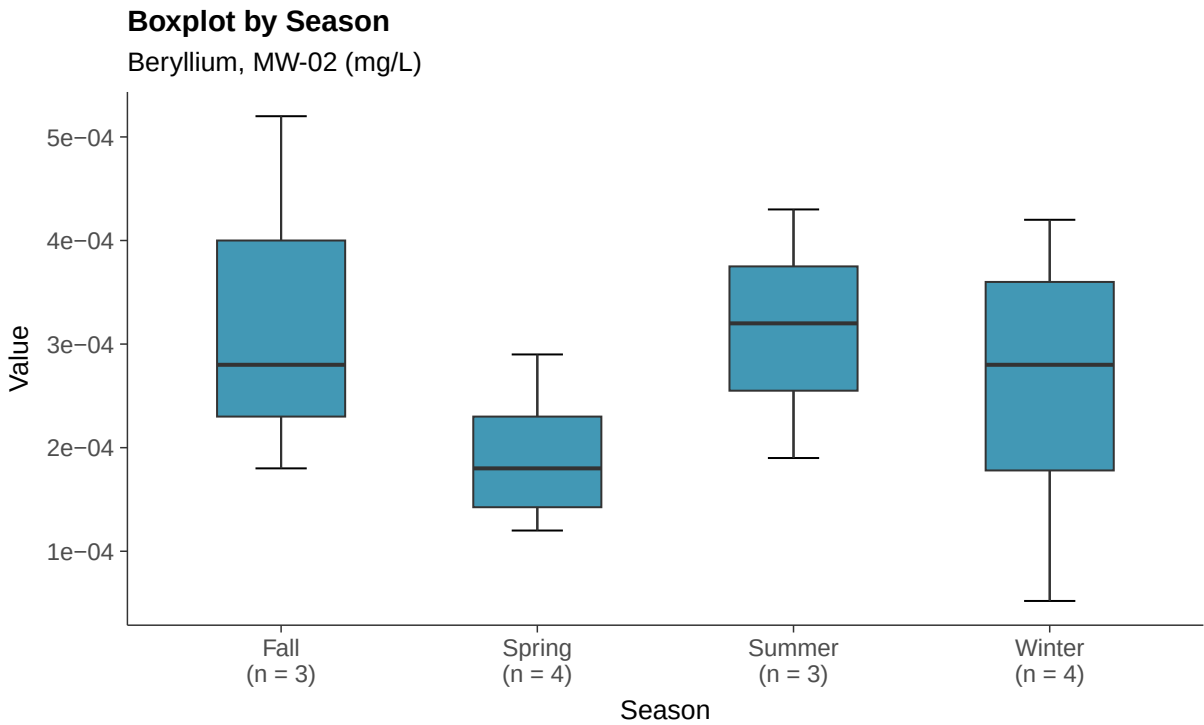
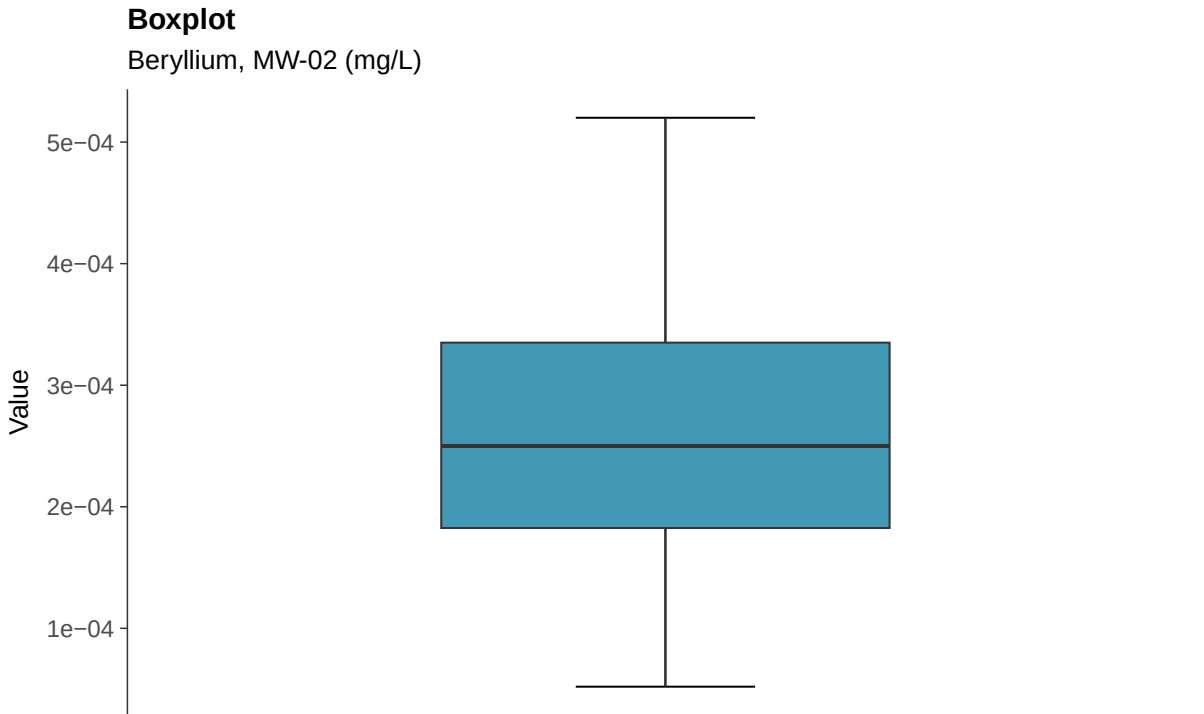




Appendix IV: Beryllium, MW-02

ID: 12_2_4_104

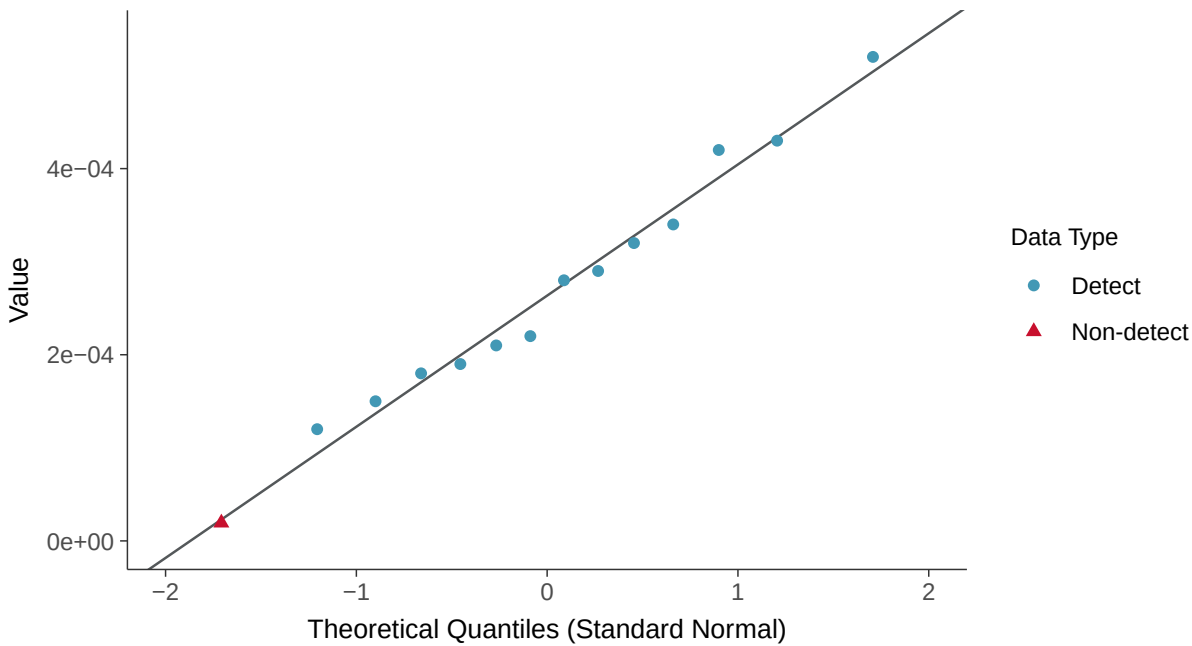






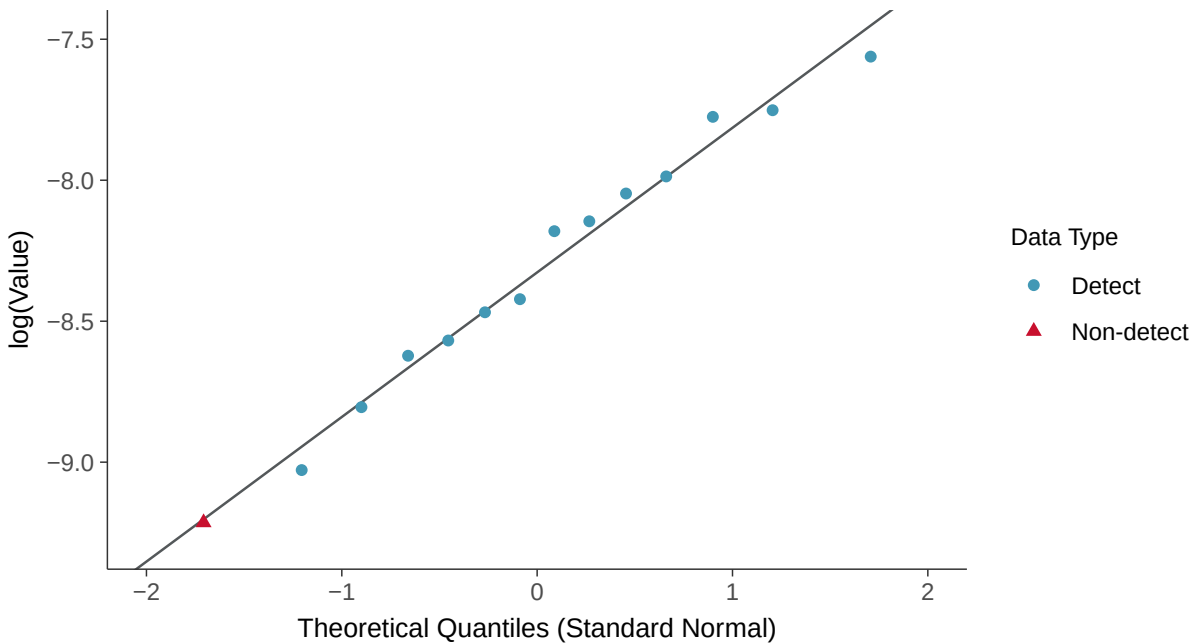
Normal Q-Q plot using ROS Imputed Estimates

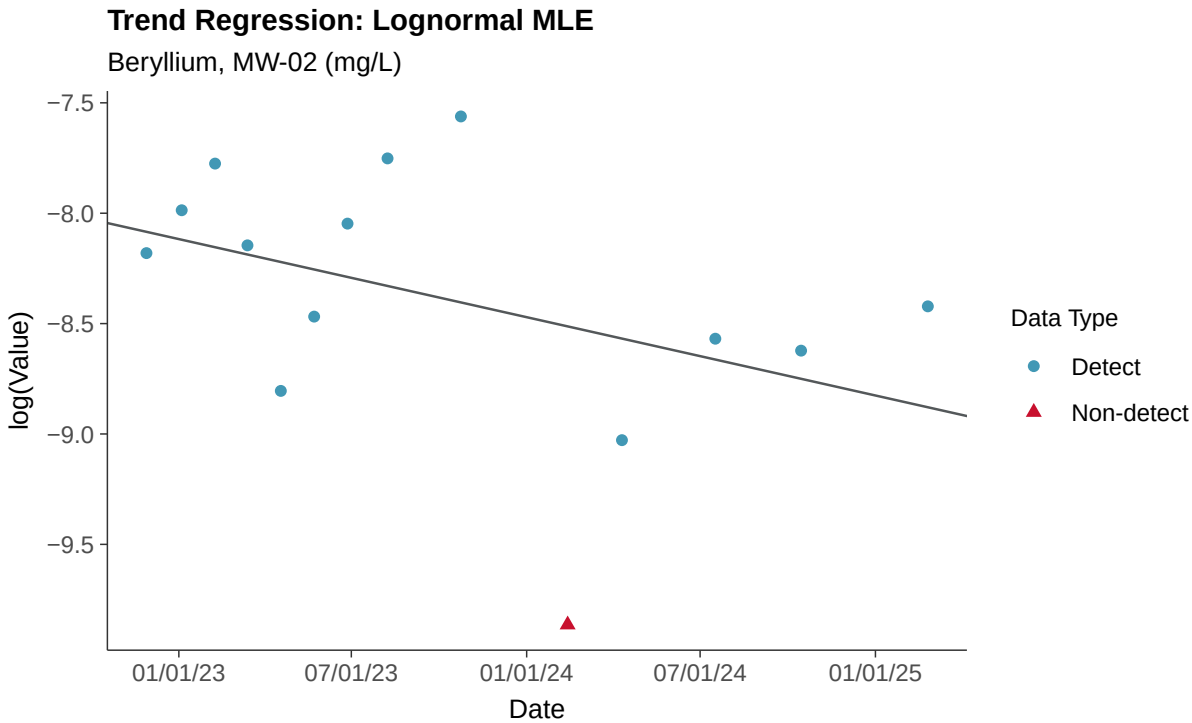
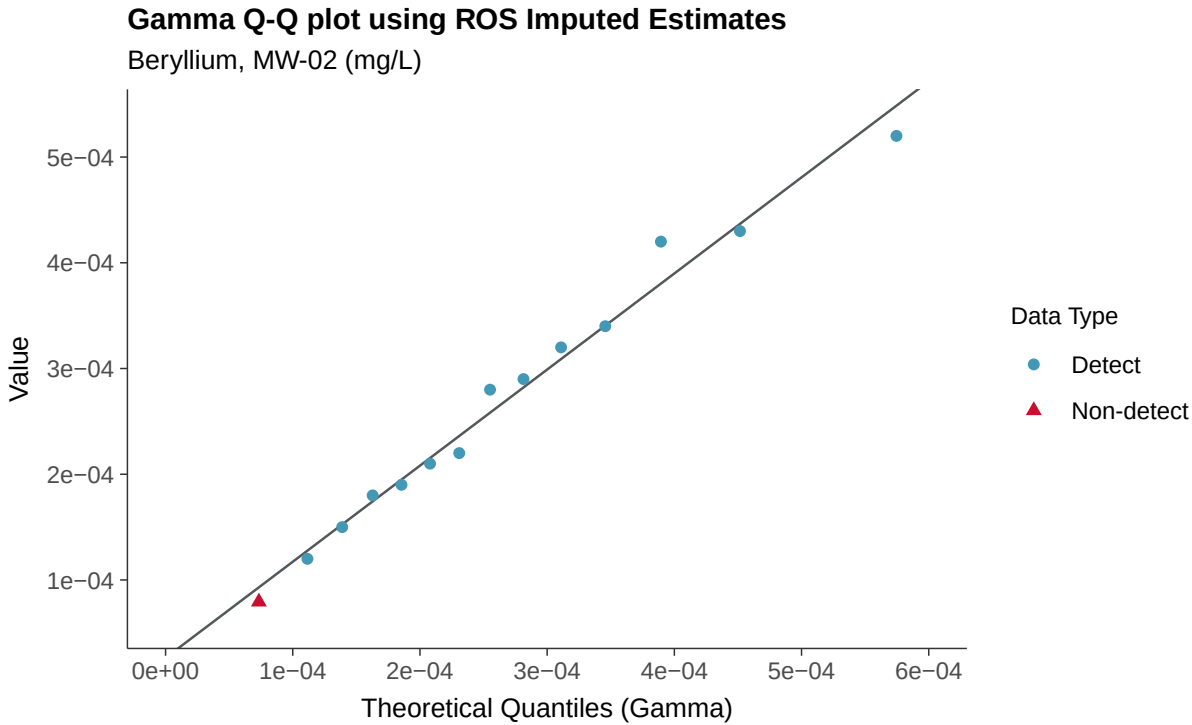
Beryllium, MW-02 (mg/L)

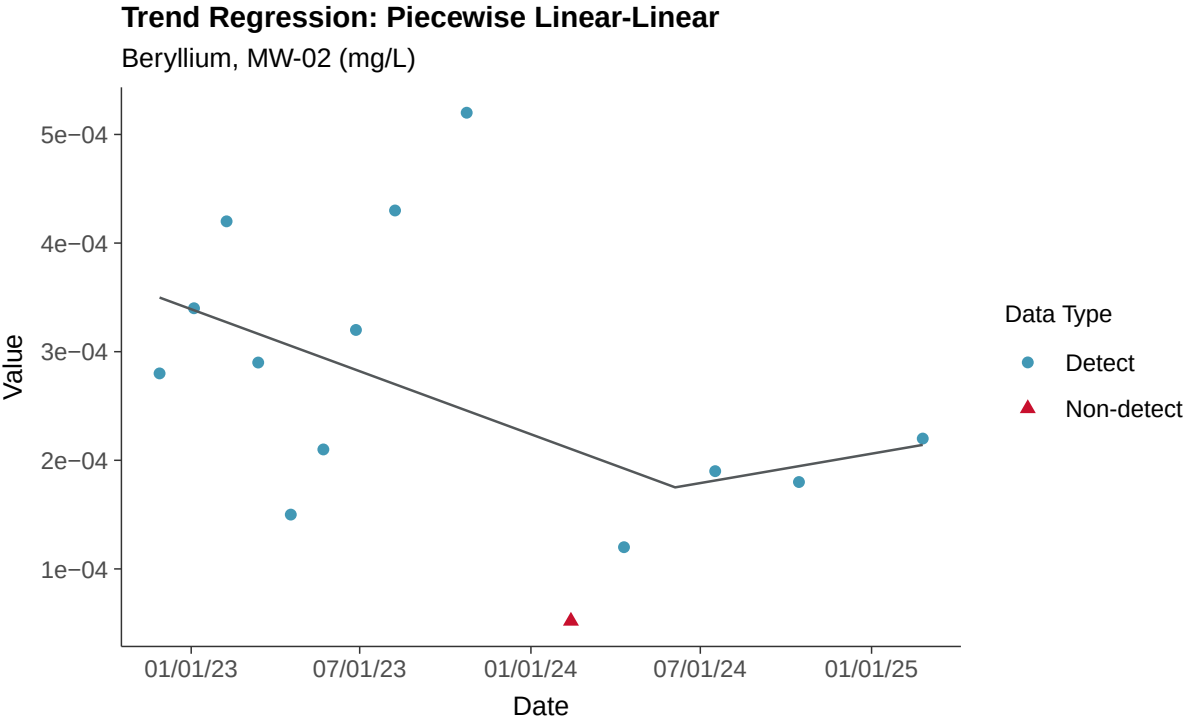


Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



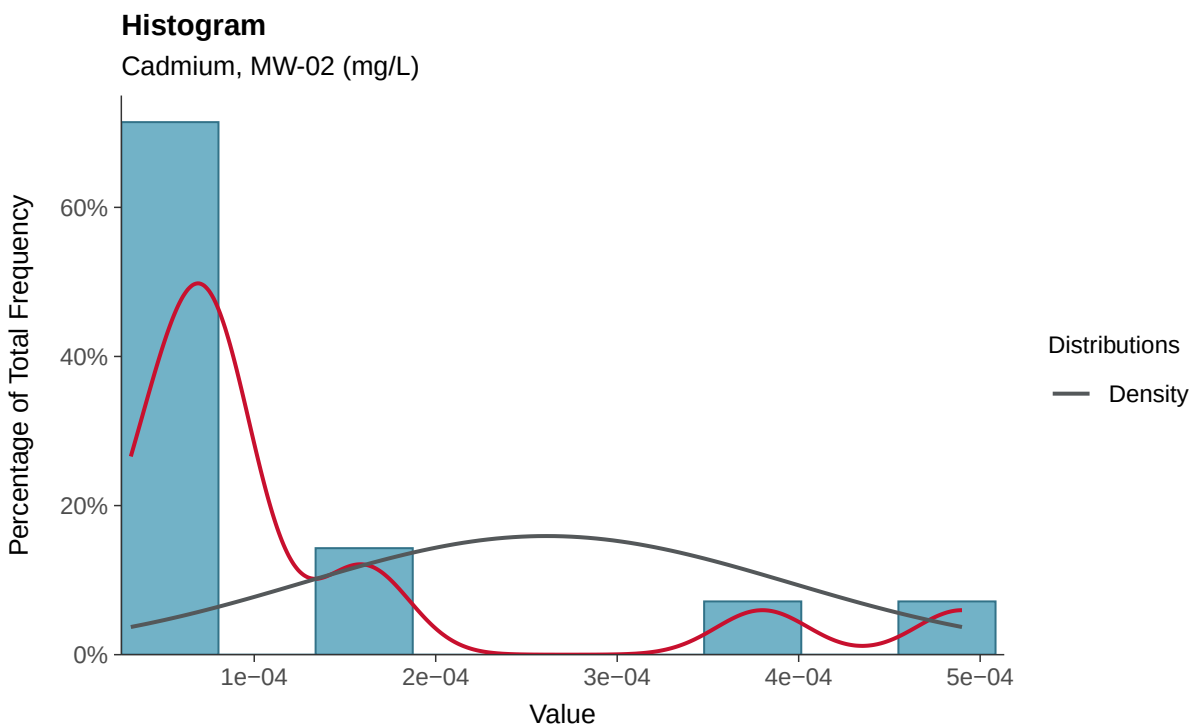
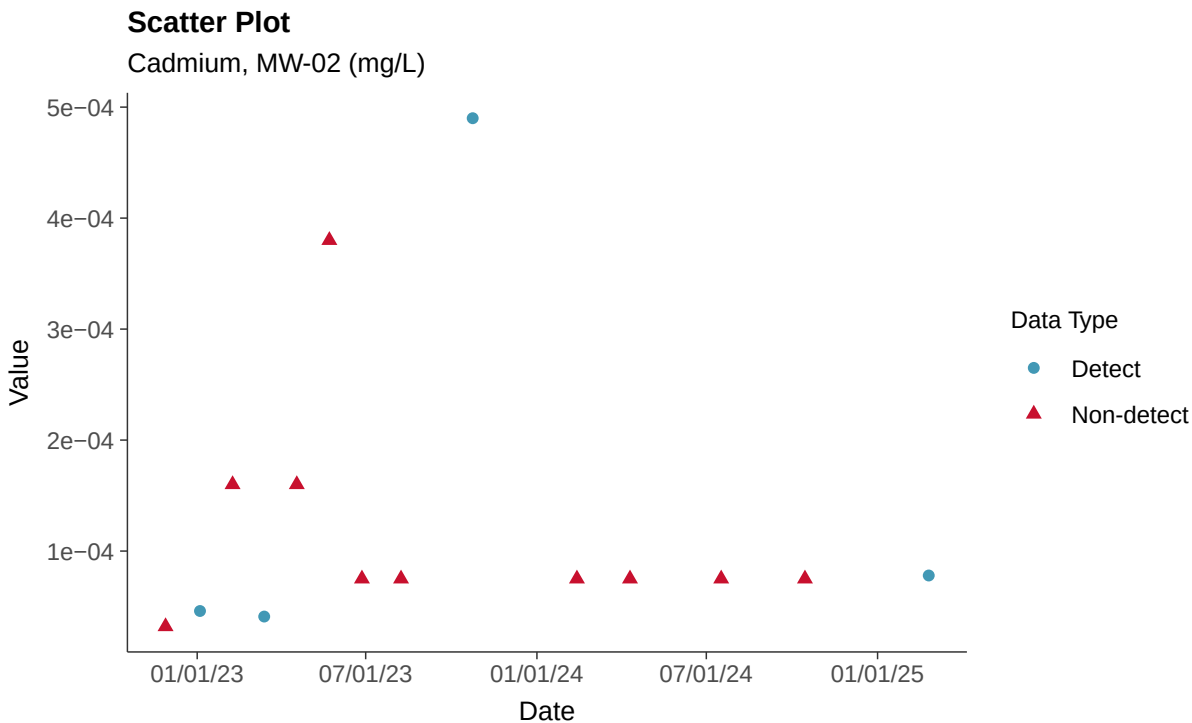


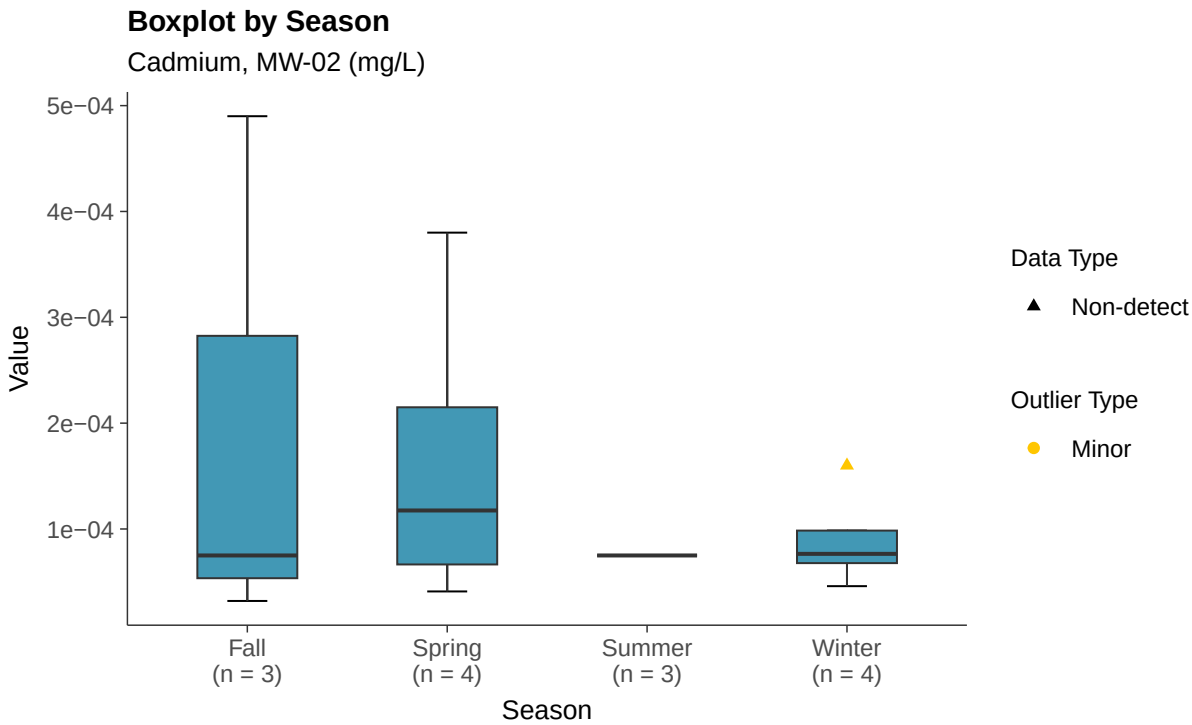
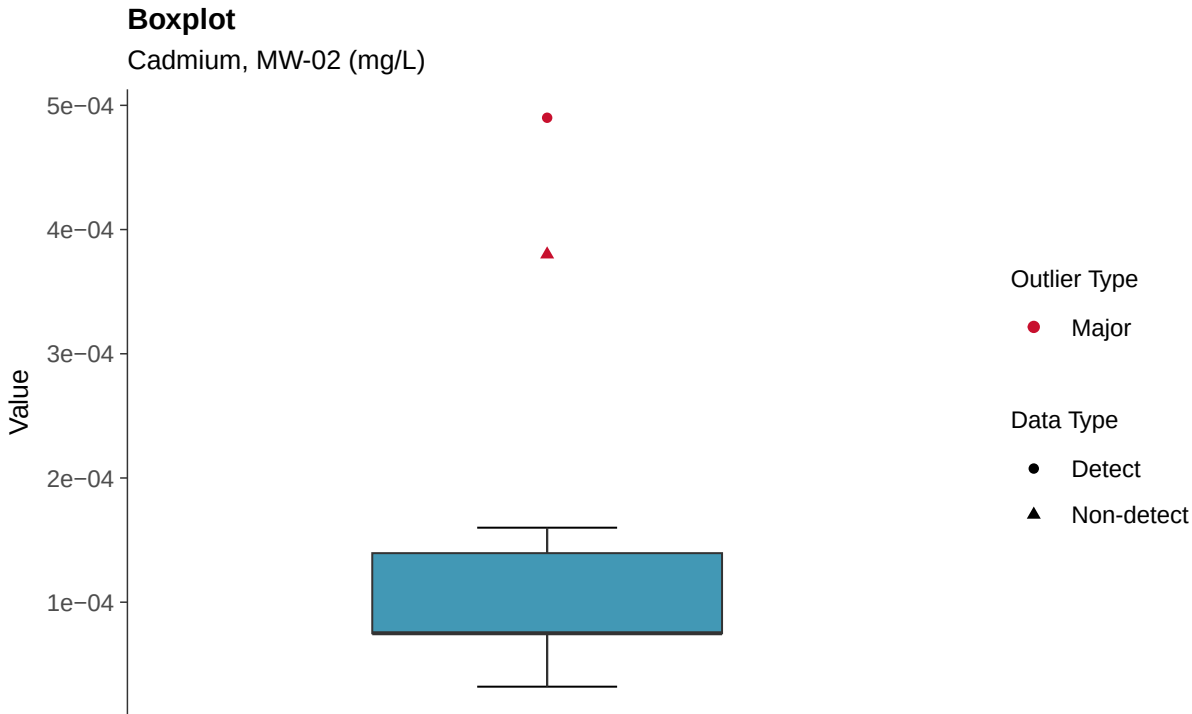




Appendix IV: Cadmium, MW-02

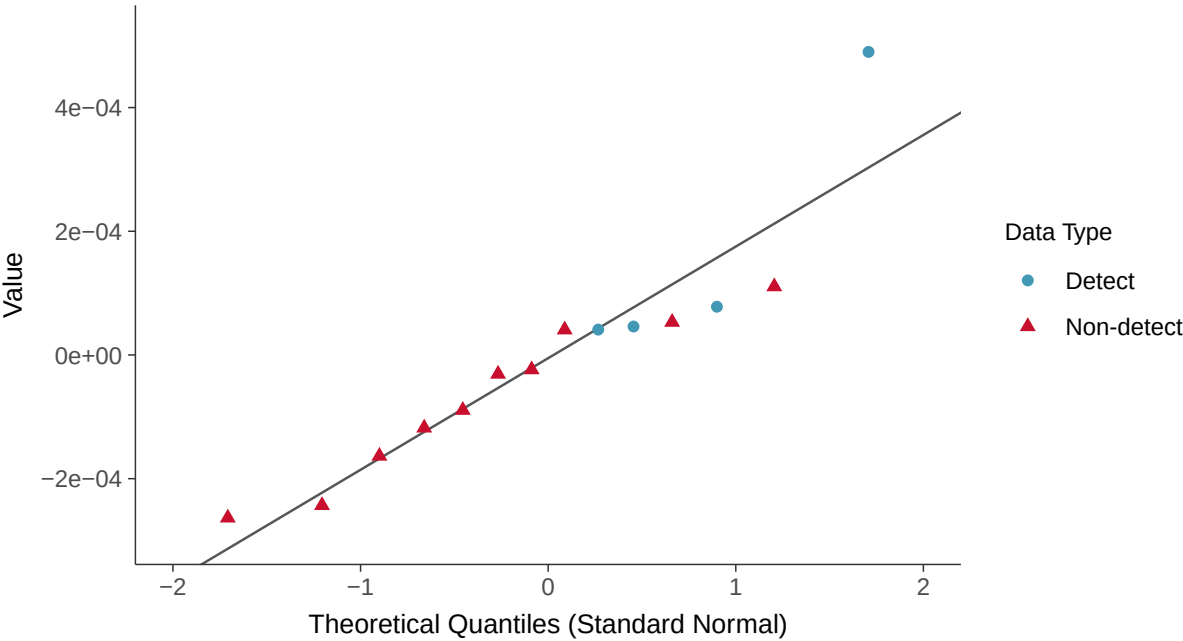
ID: 12_2_4_106



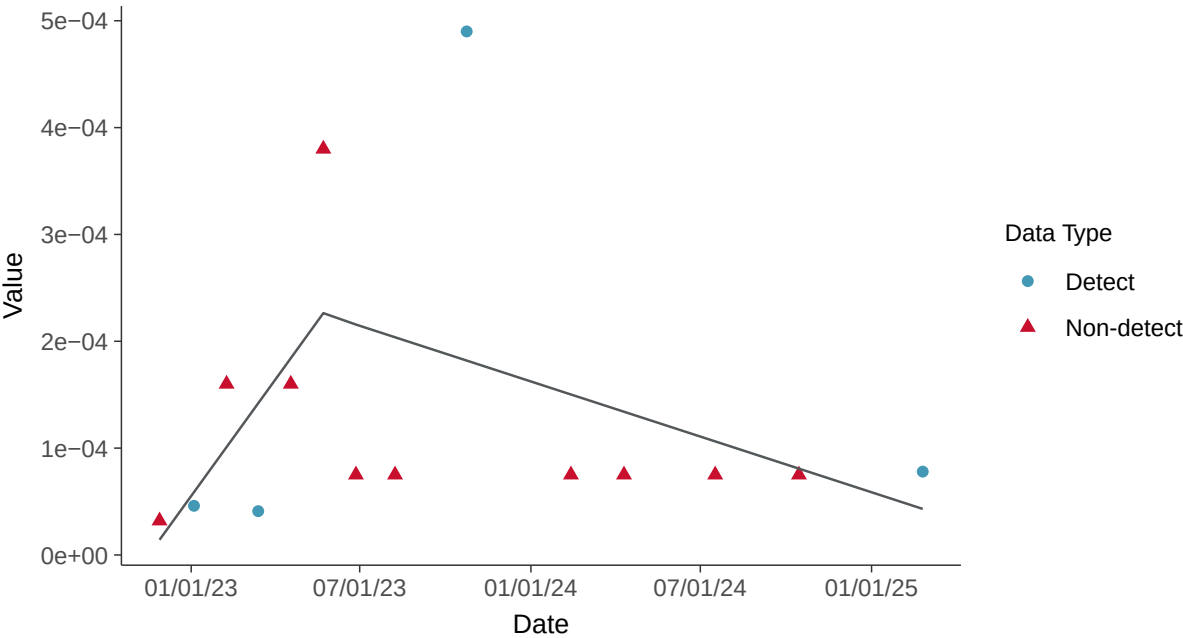




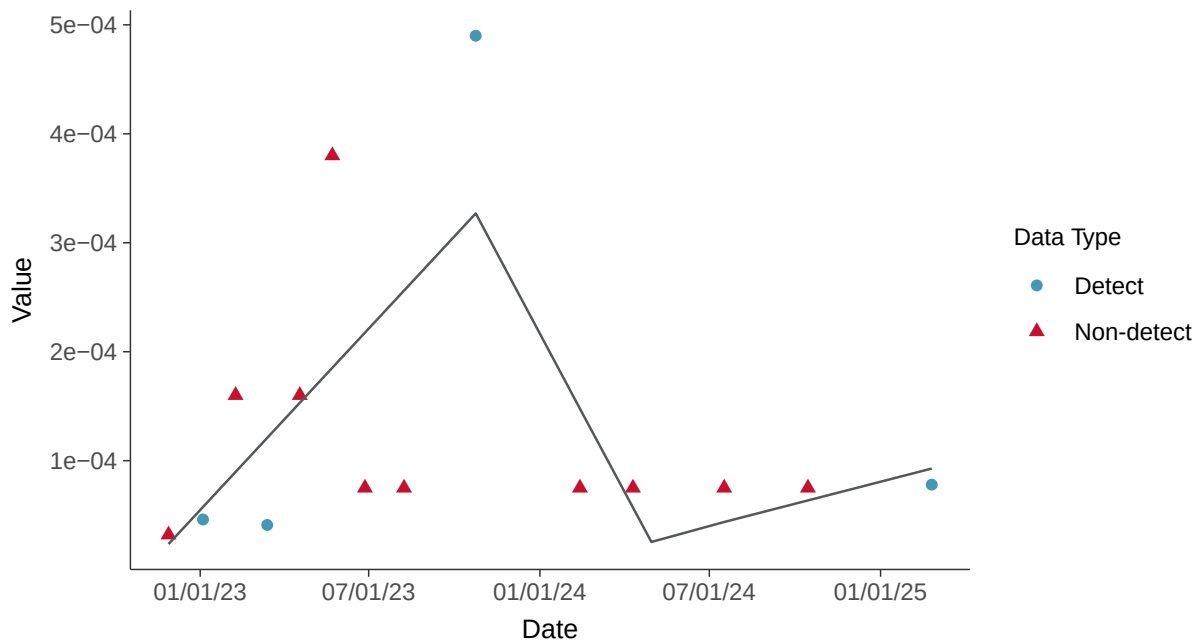
Normal Q-Q plot using ROS Imputed Estimates
Cadmium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear
Cadmium, MW-02 (mg/L)



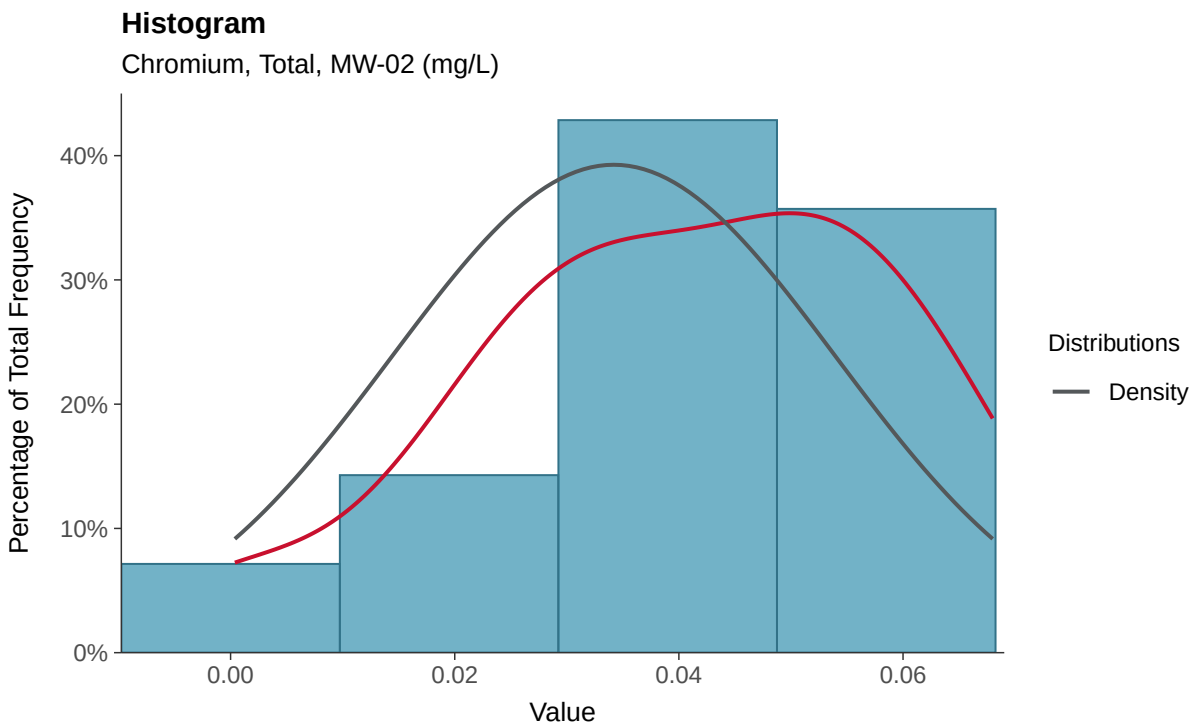
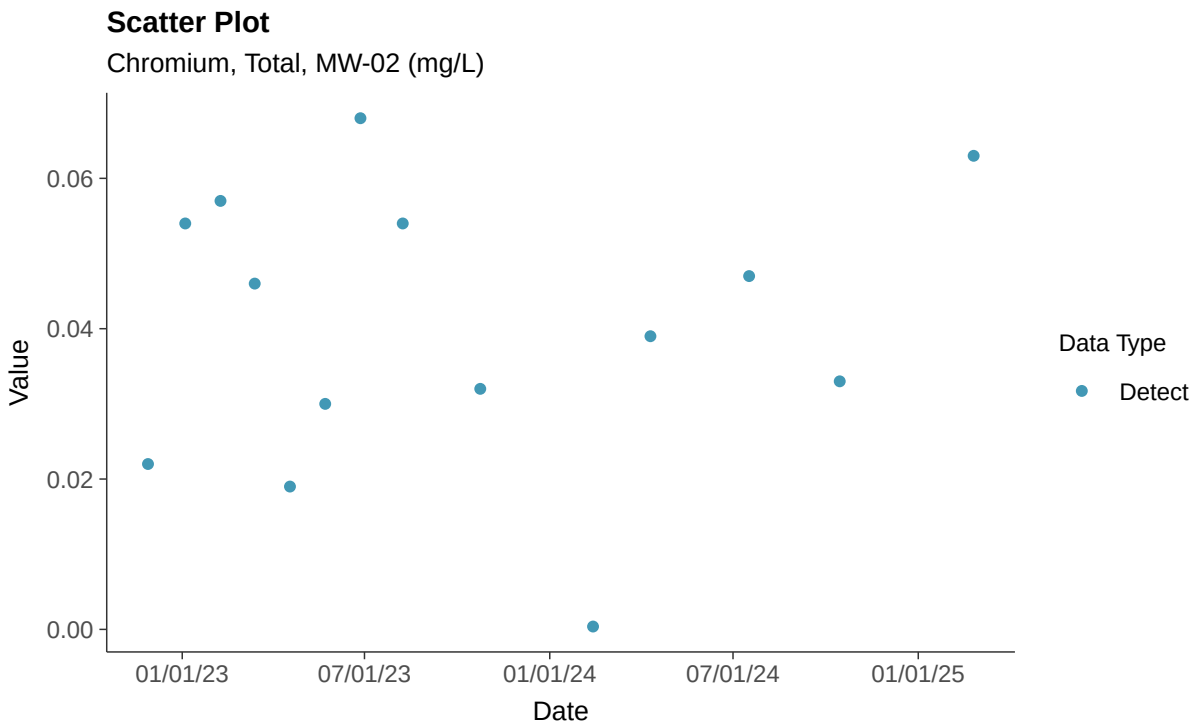
Cadmium, MW-02 (mg/L)

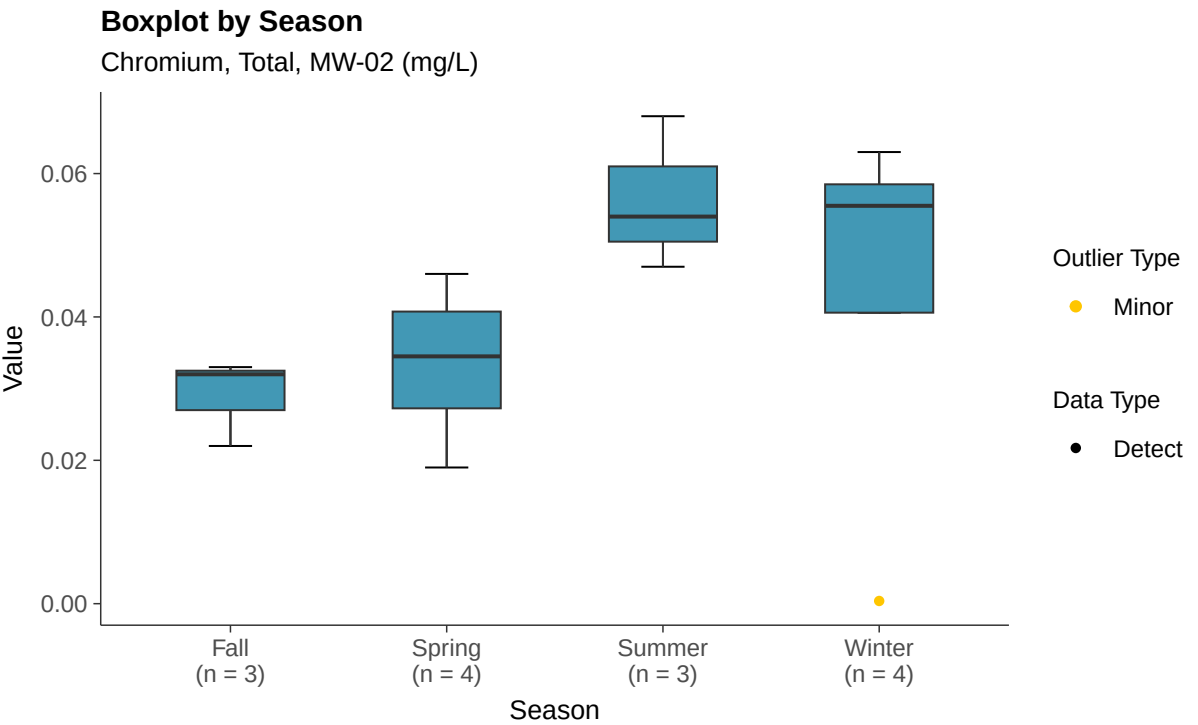
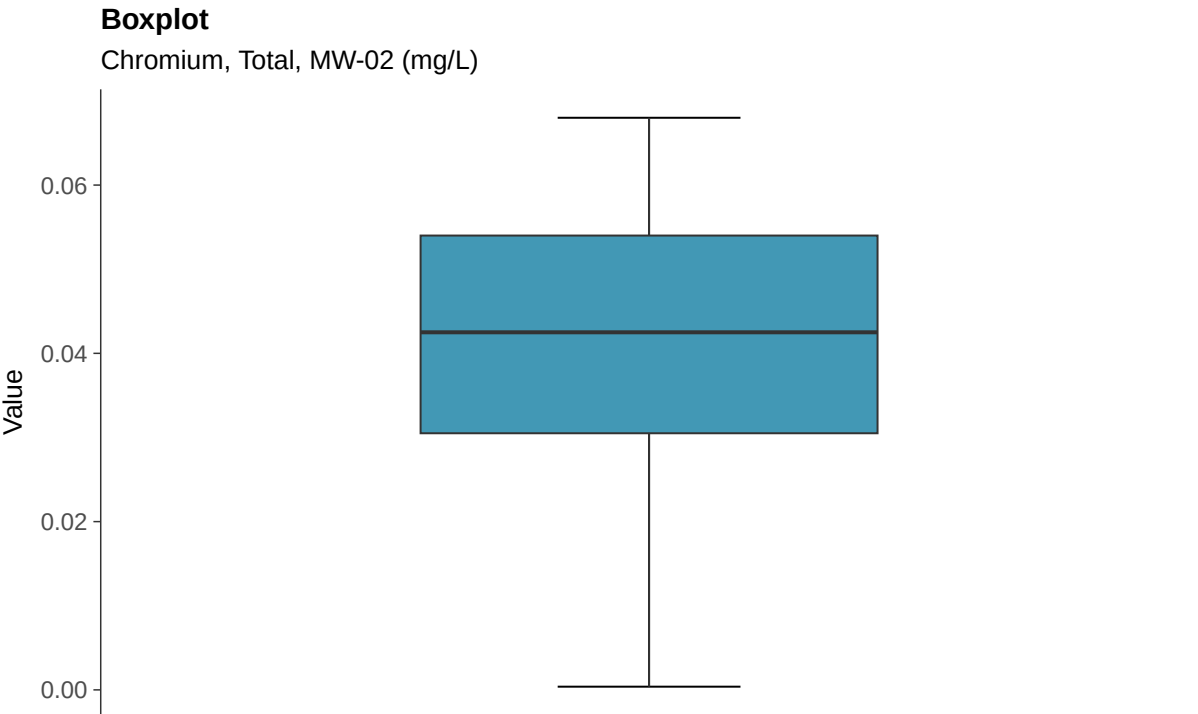


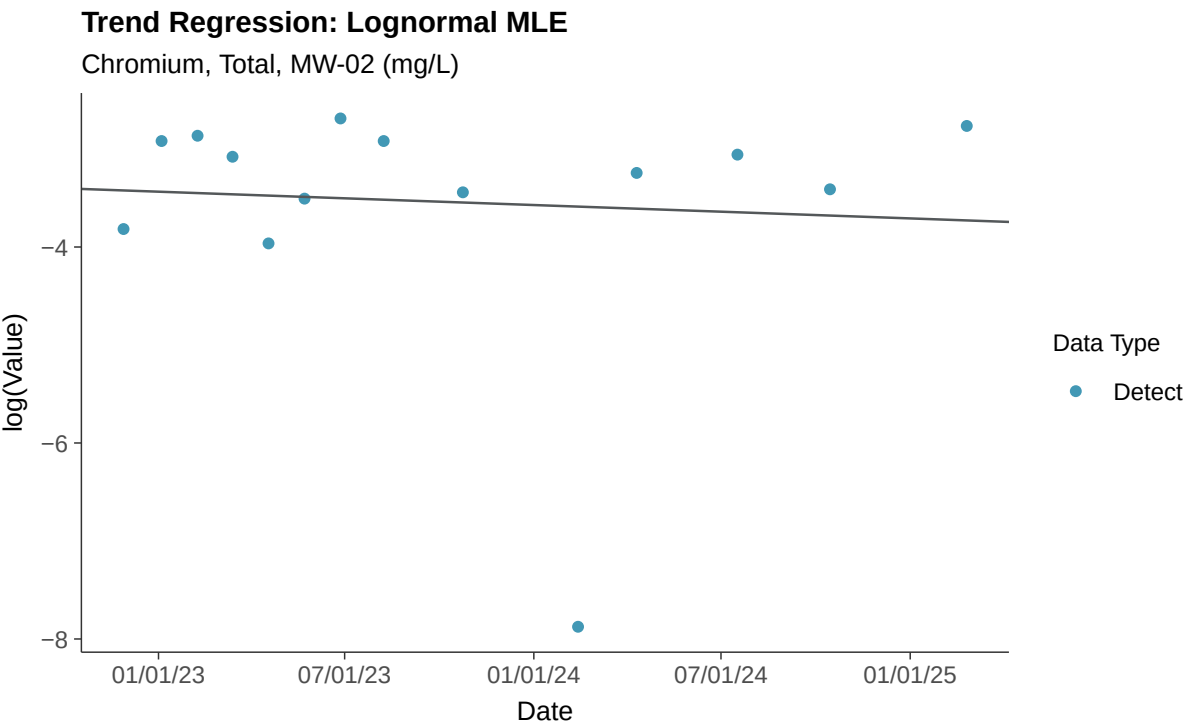
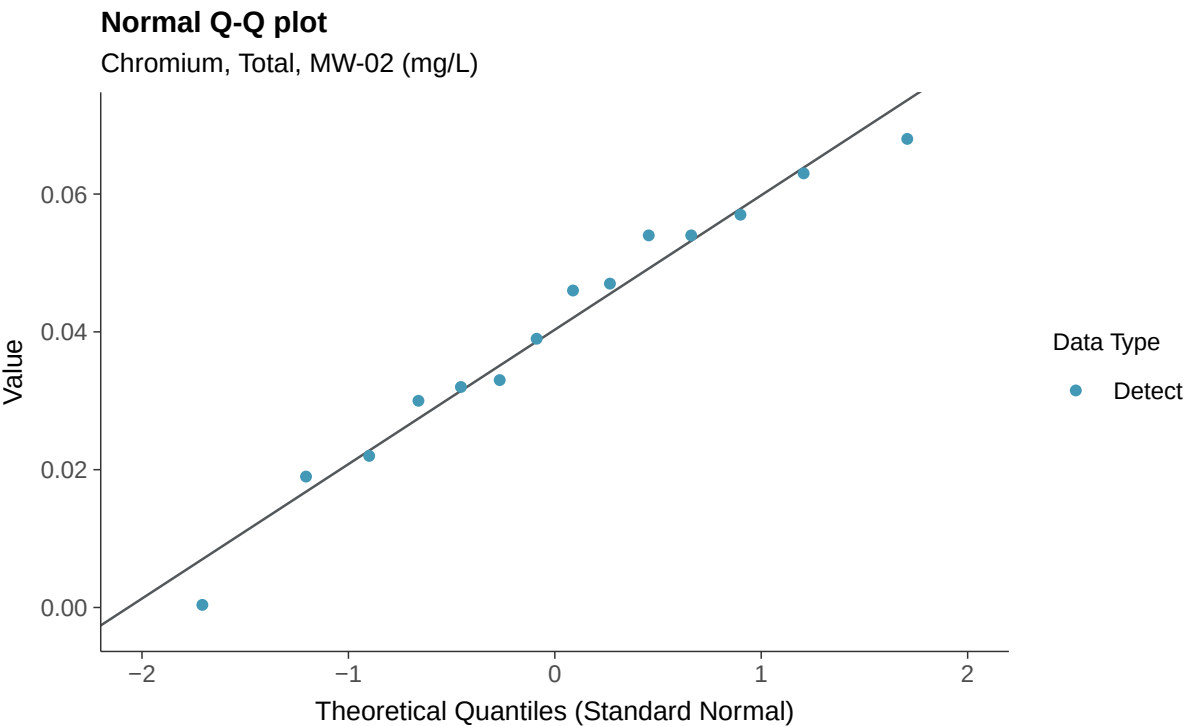


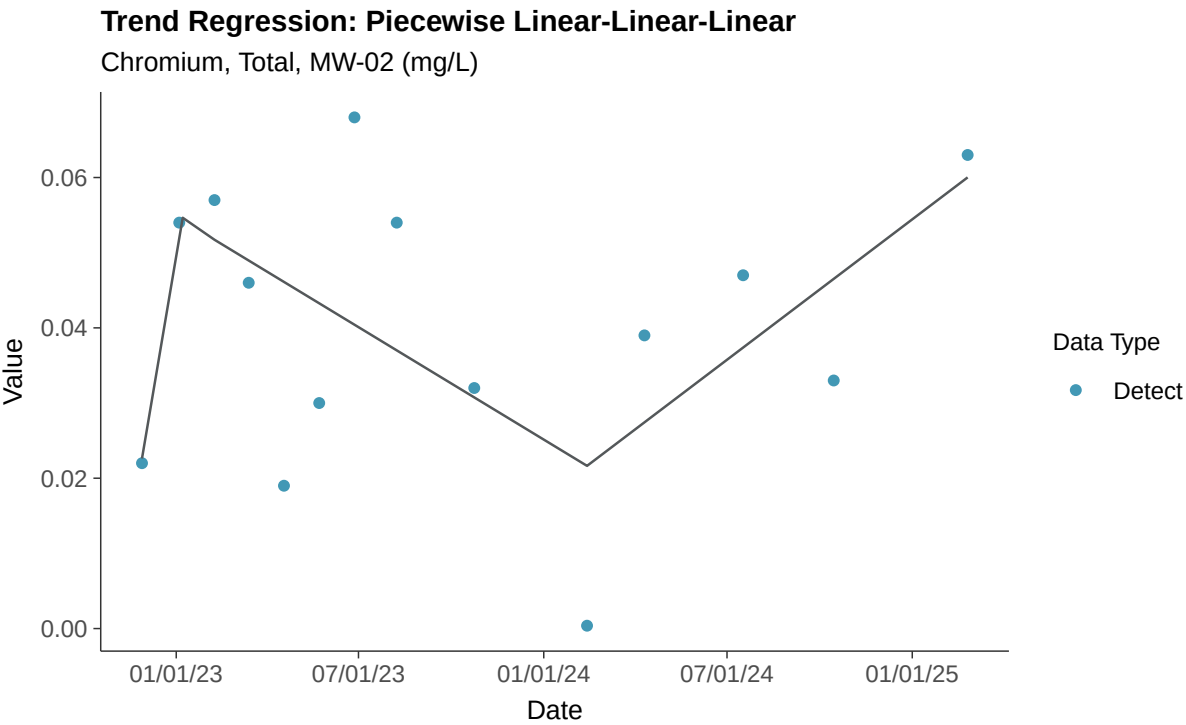
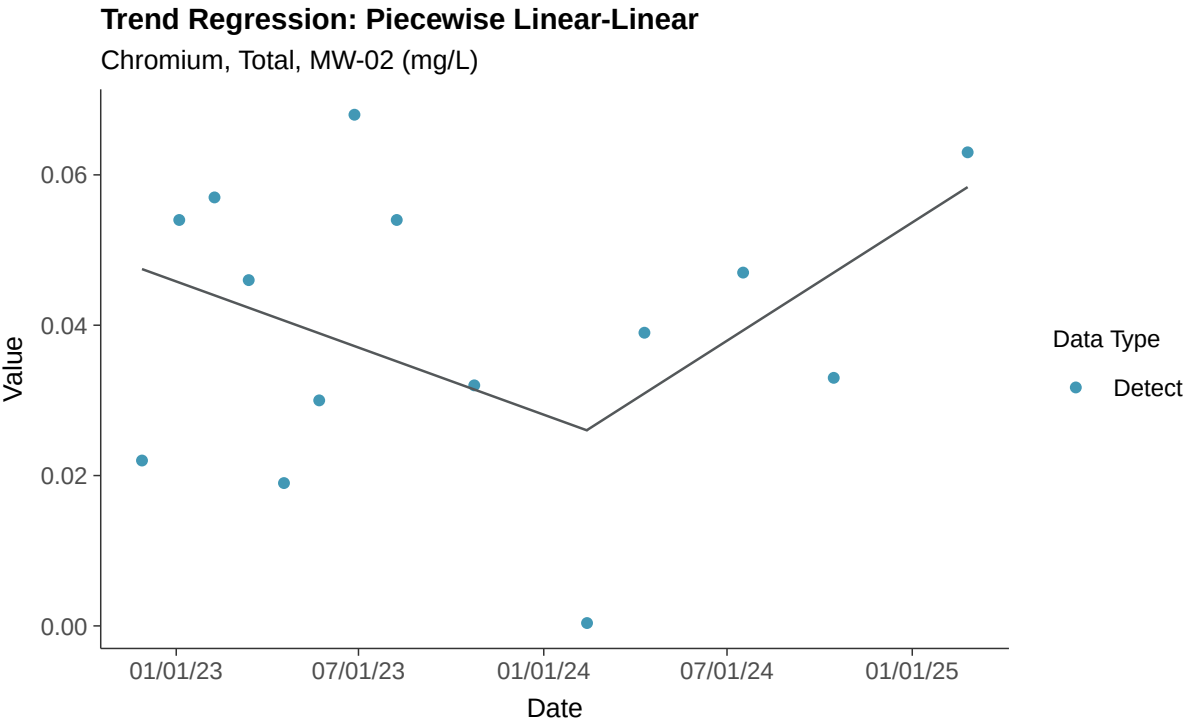
Appendix IV: Chromium, Total, MW-02

ID: 12_2_4_109





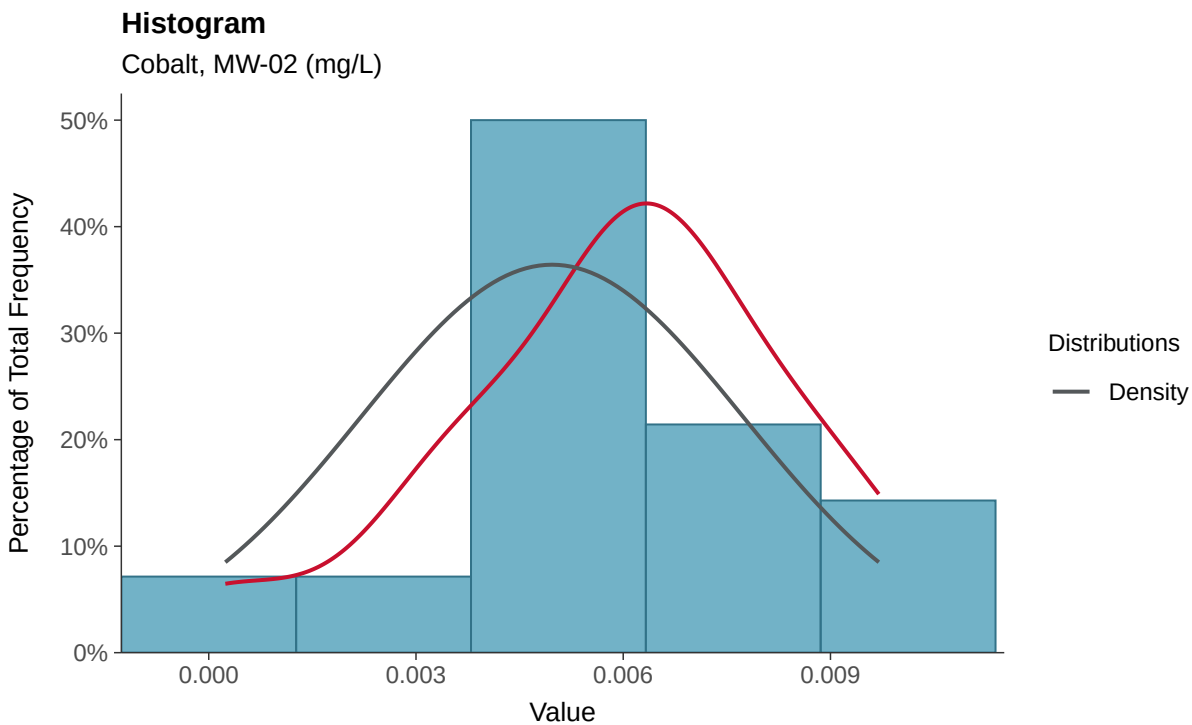
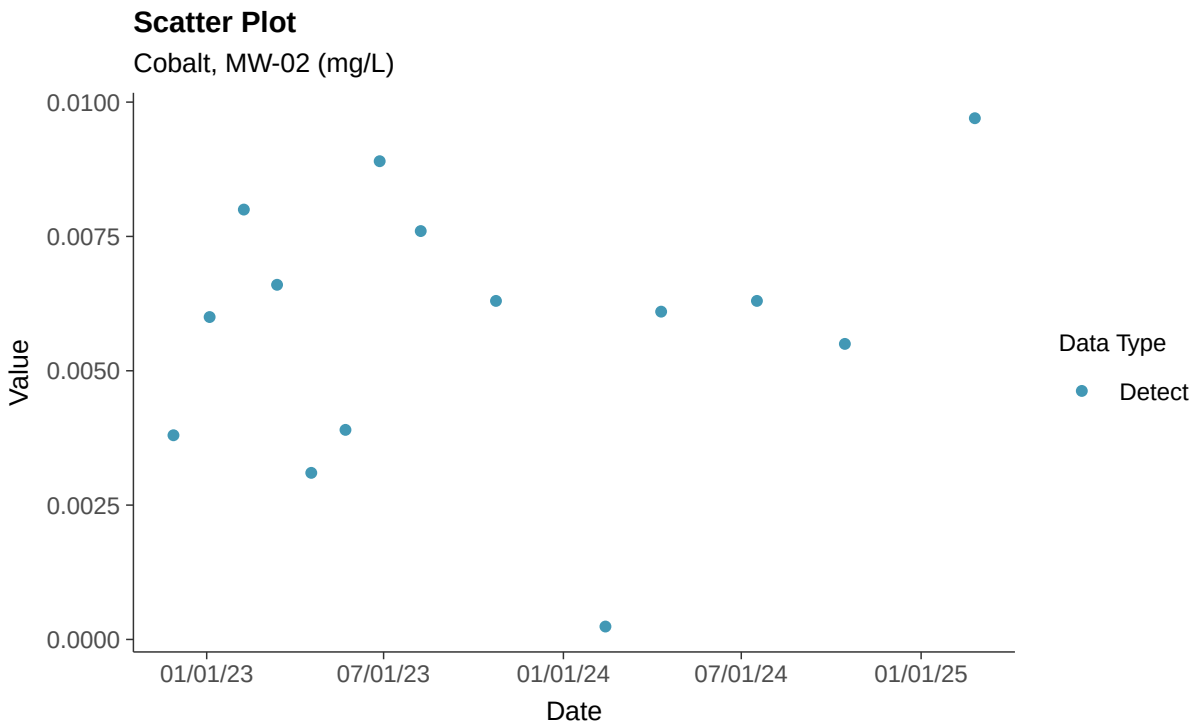


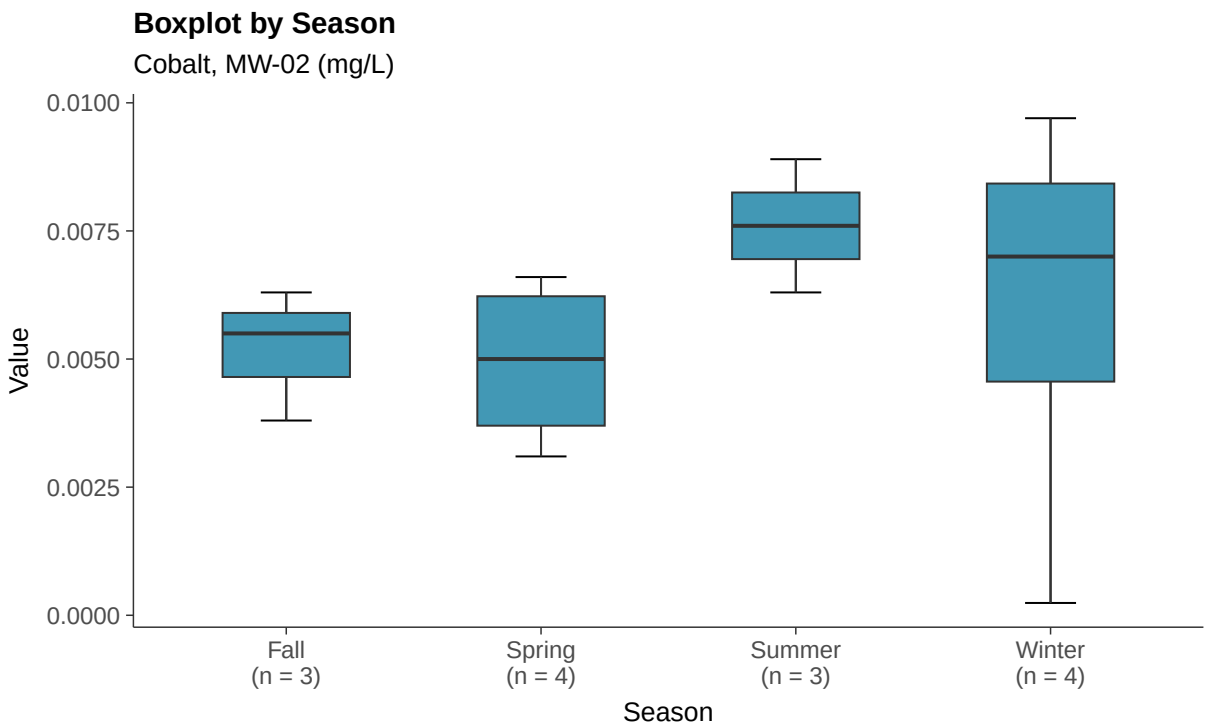
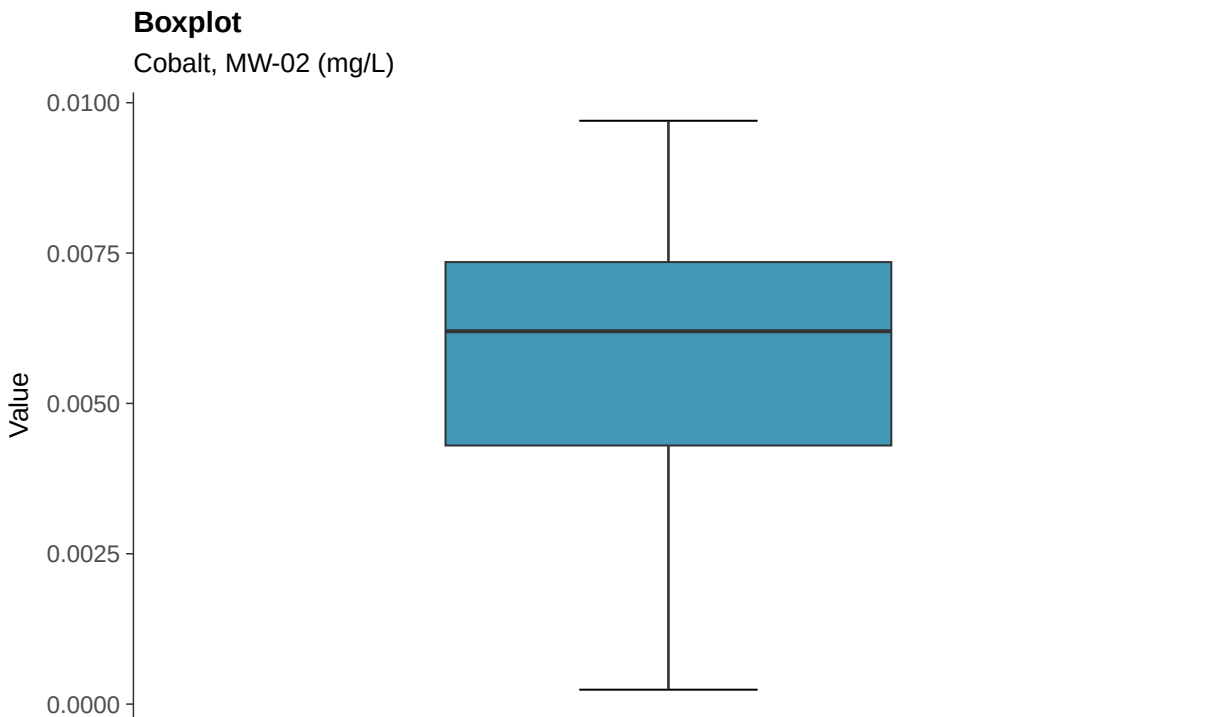


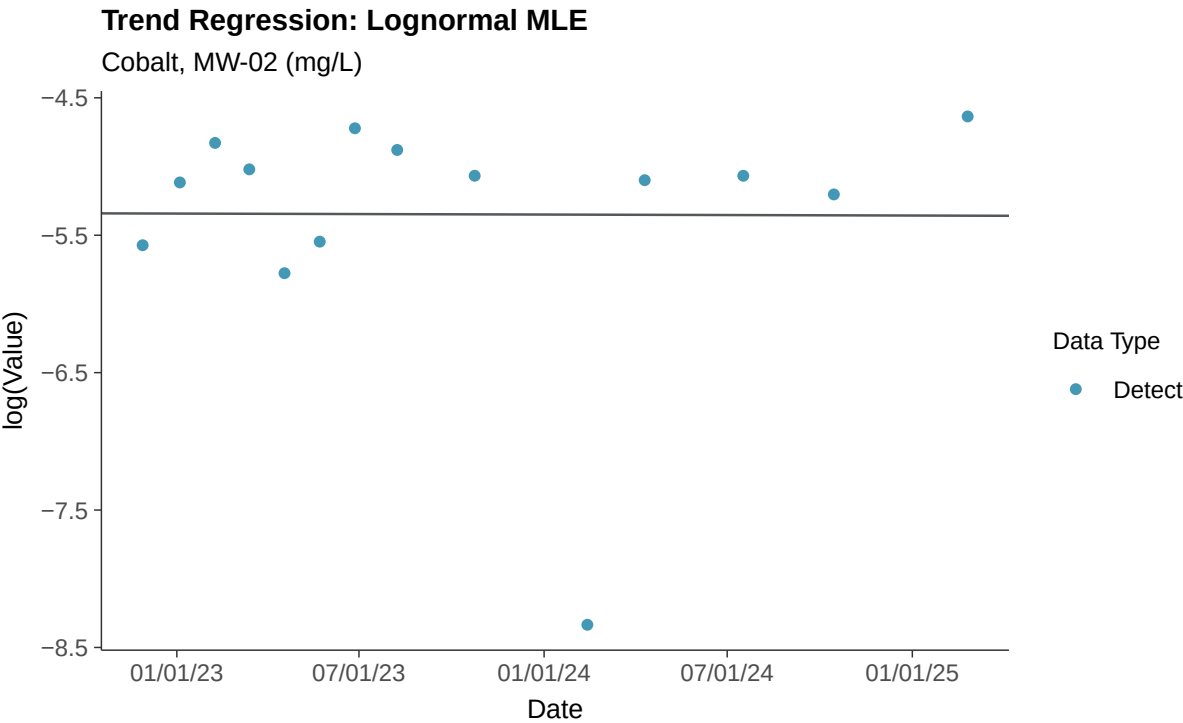
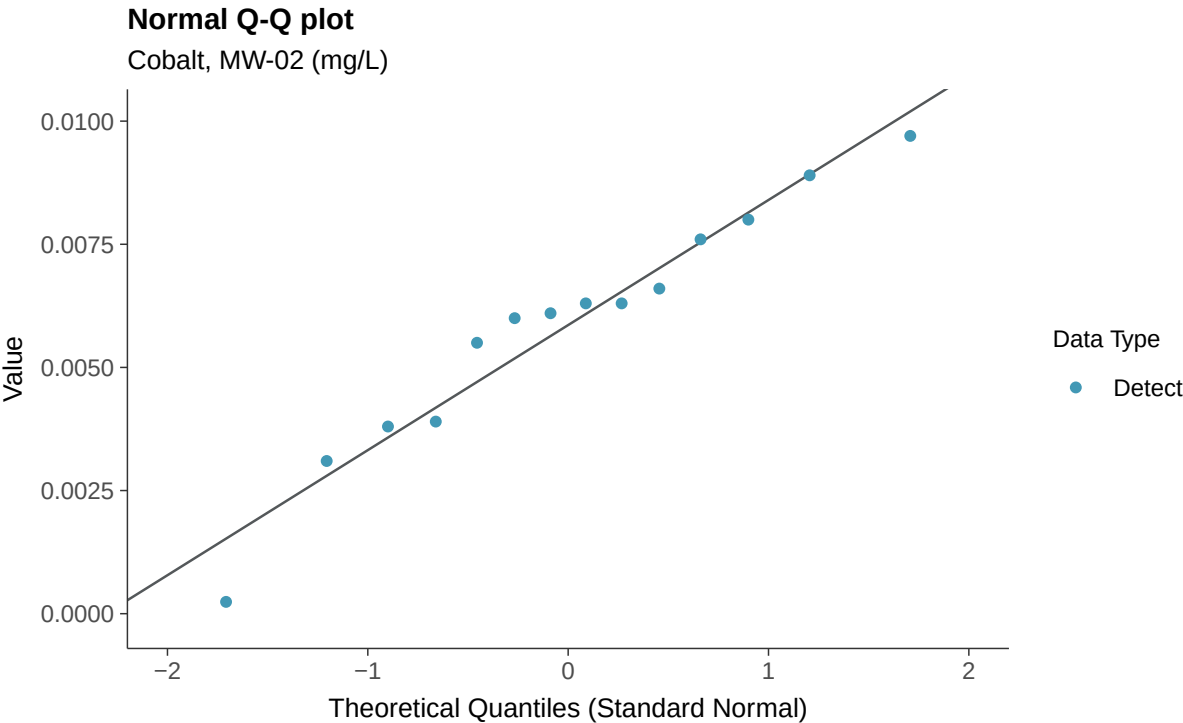


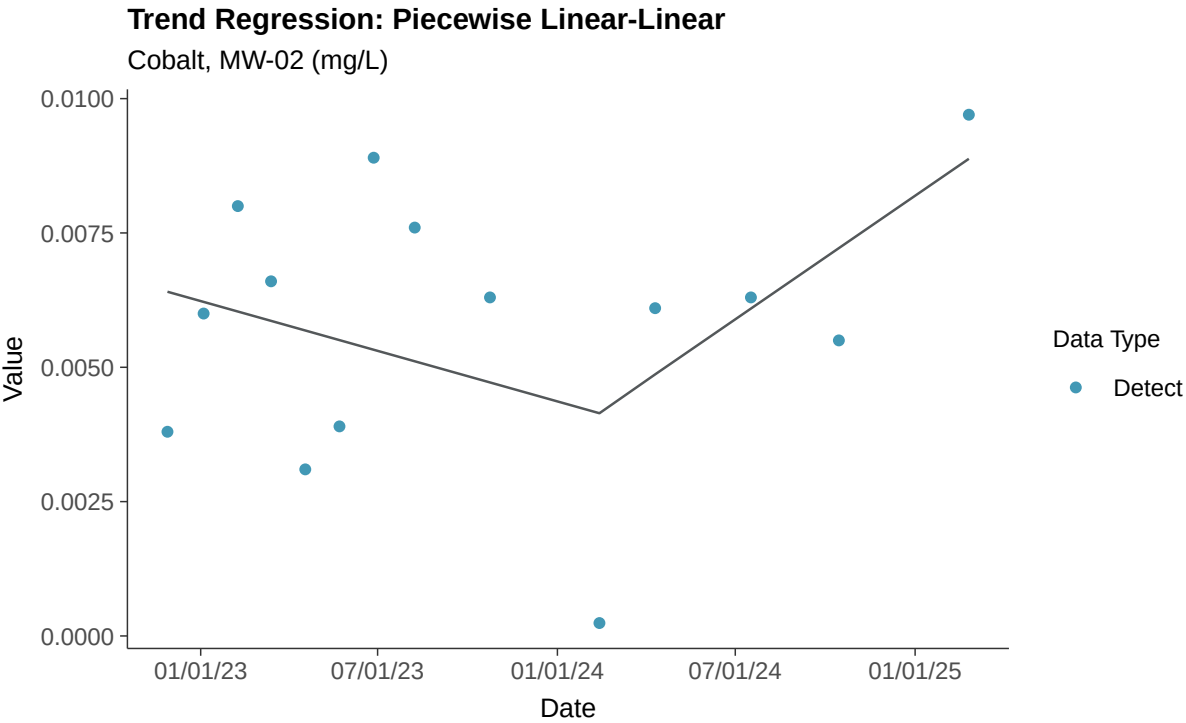
Appendix IV: Cobalt, MW-02

ID: 12_2_4_110





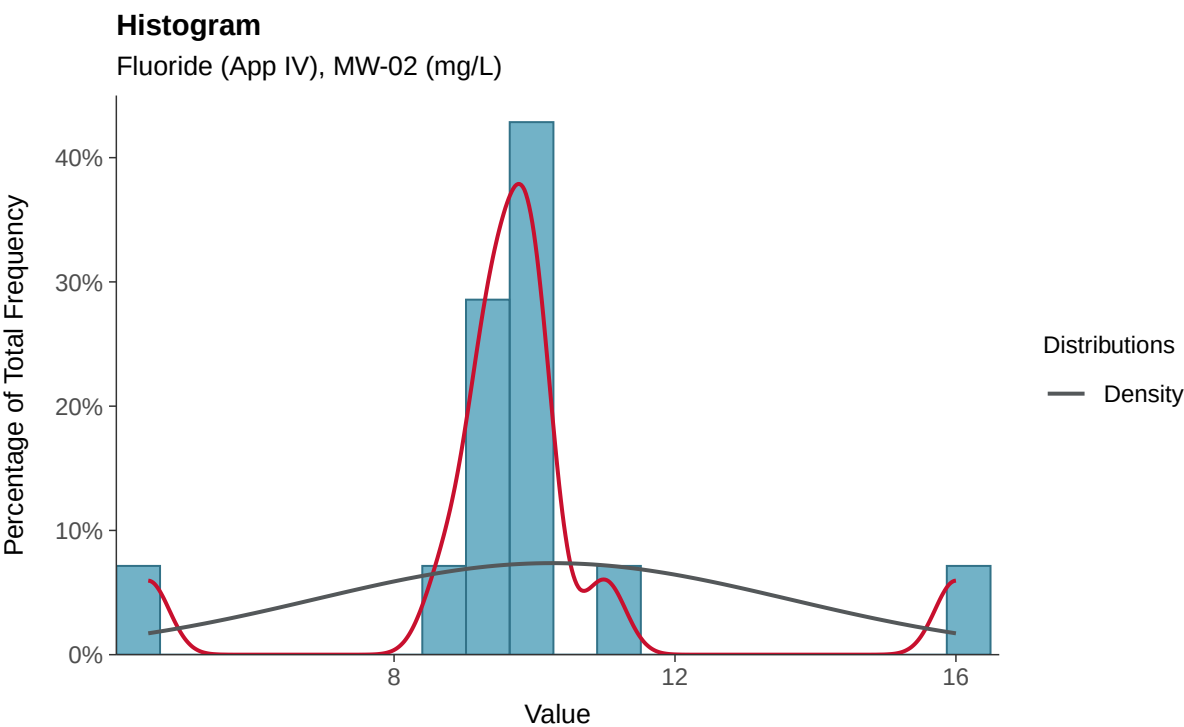
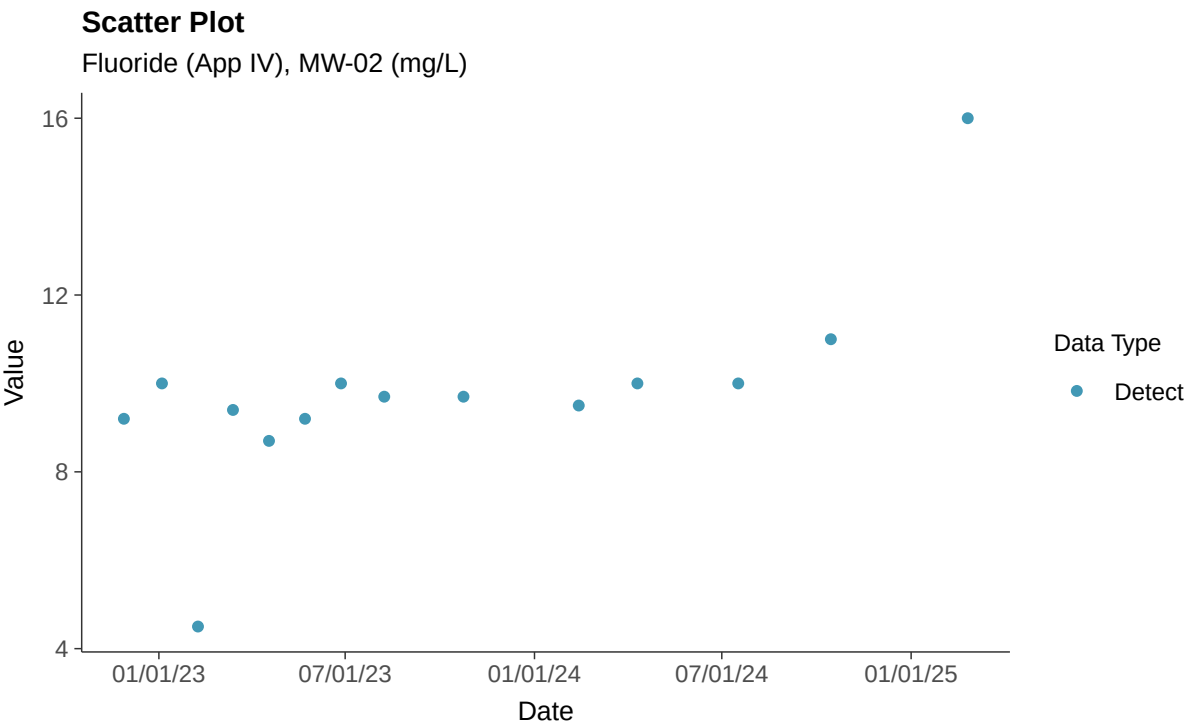


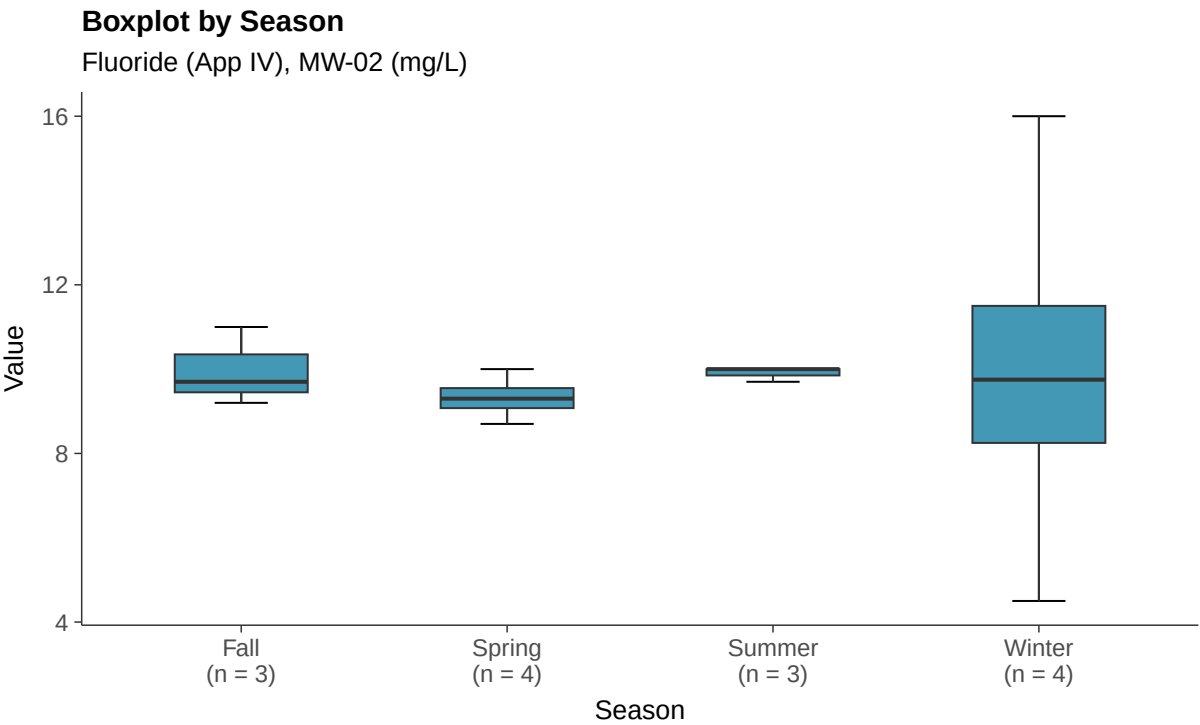
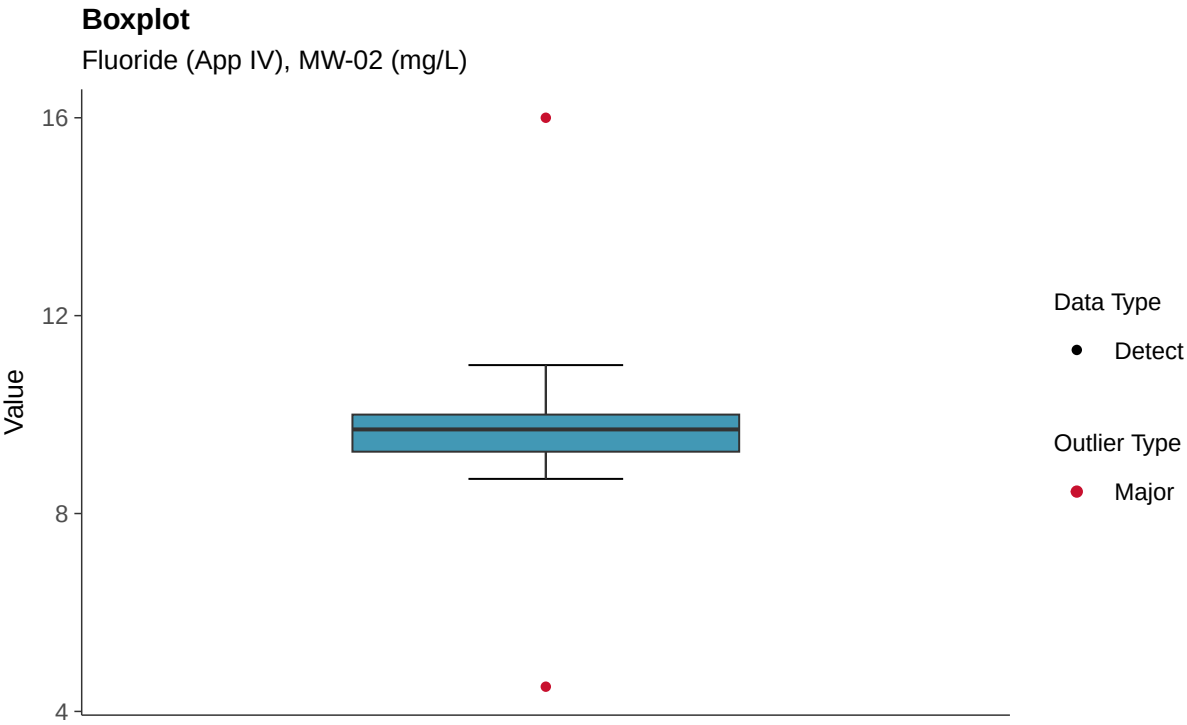


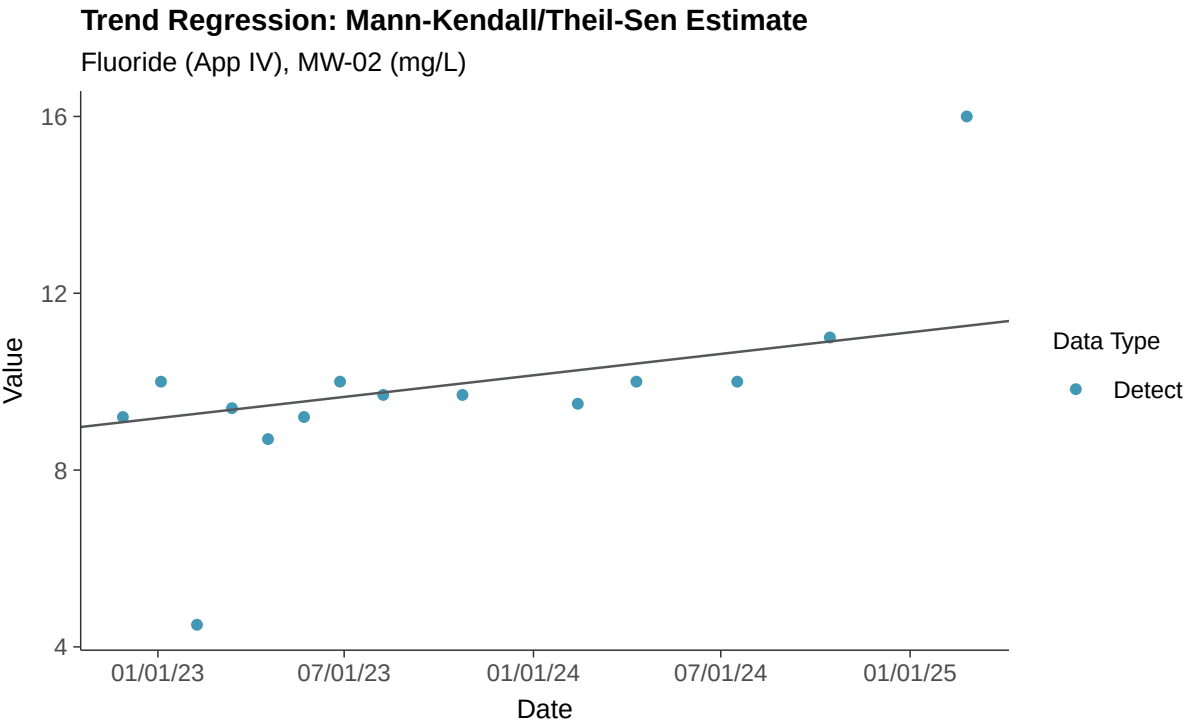
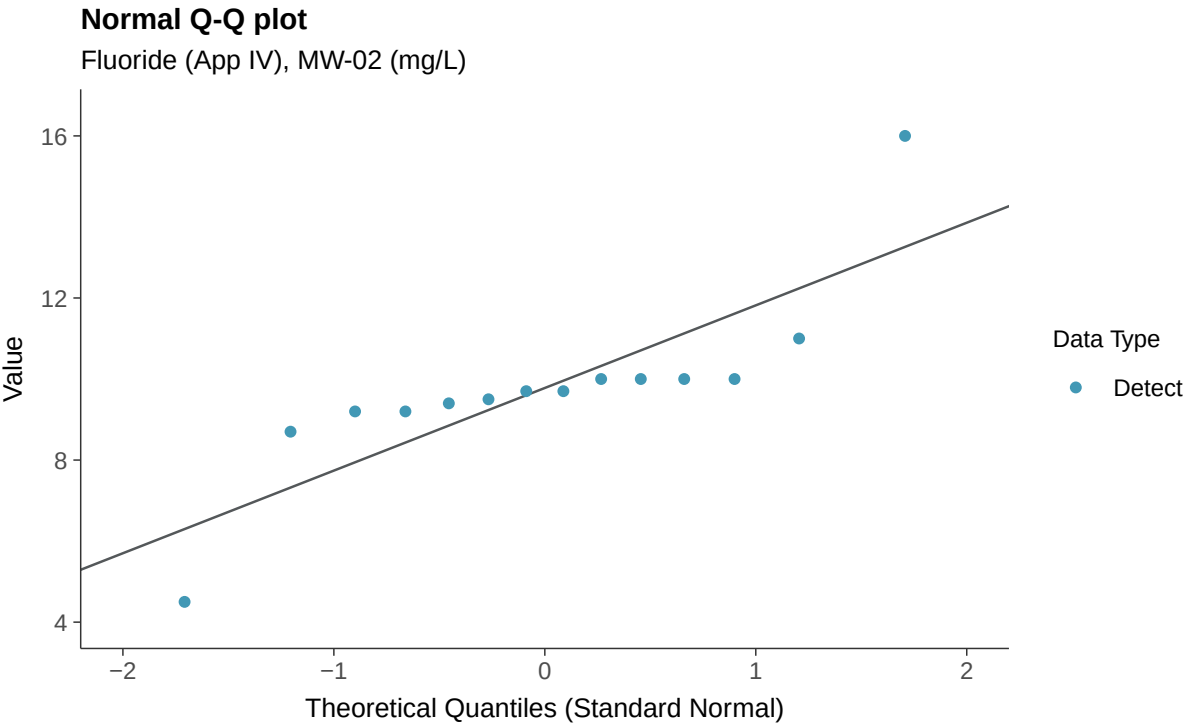


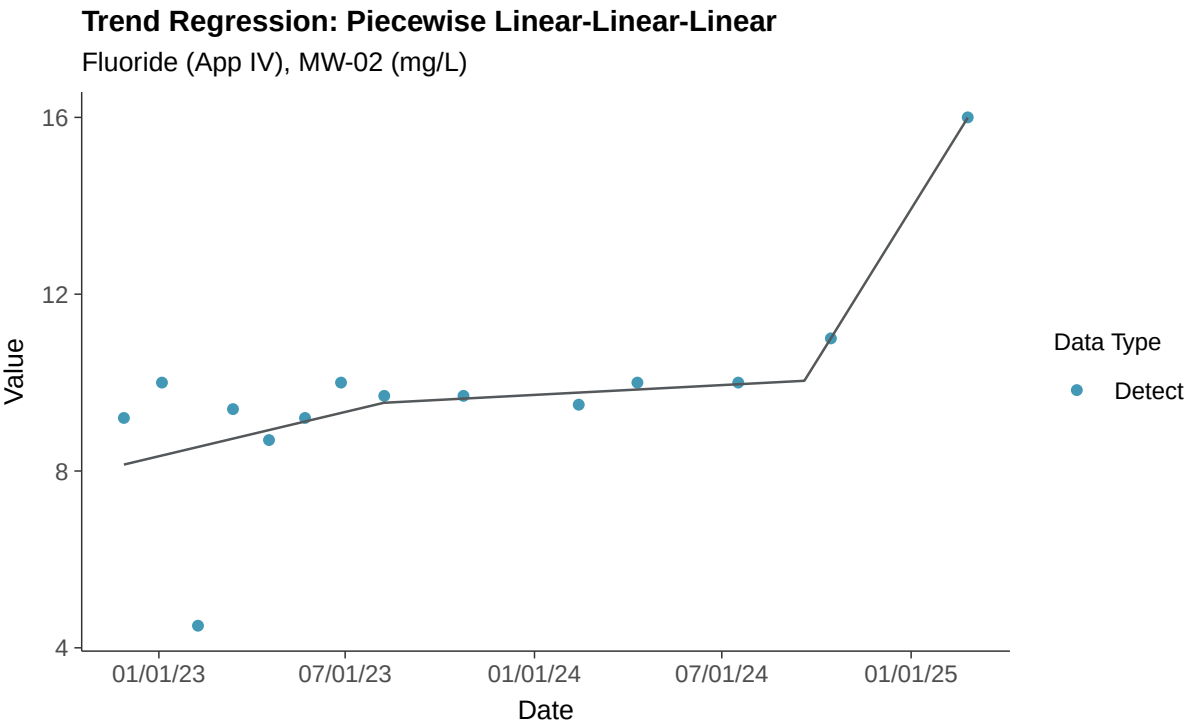
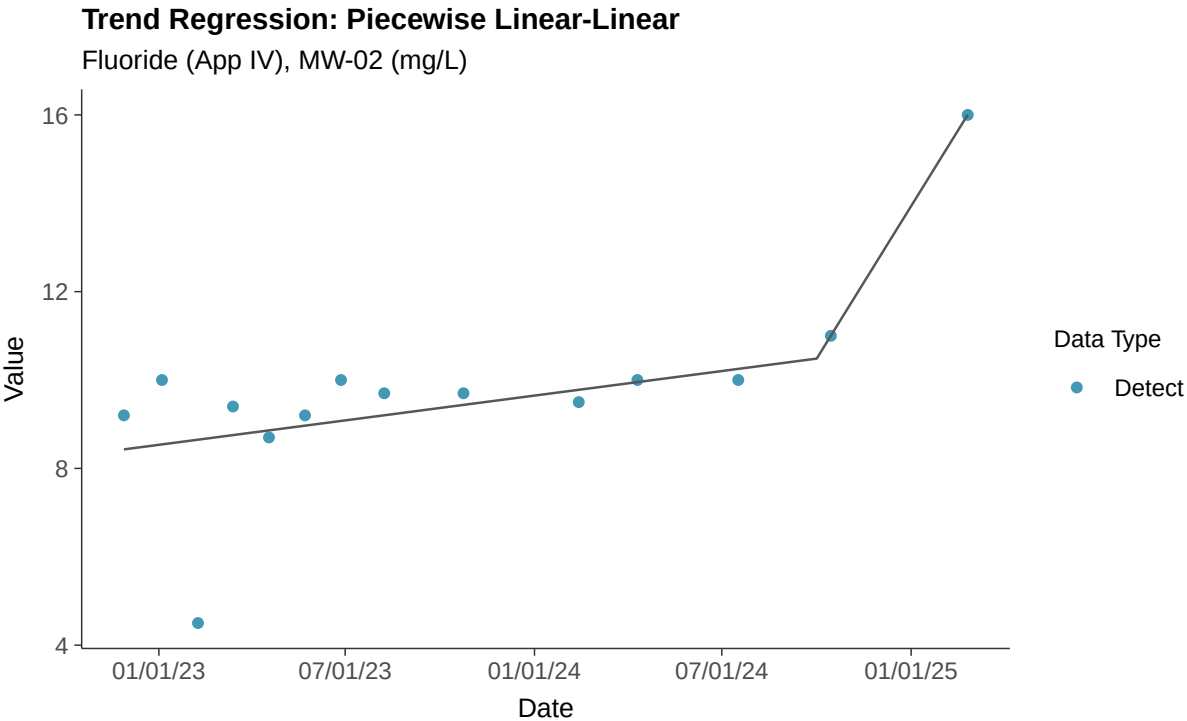
Appendix IV: Fluoride (App IV), MW-02

ID: 12_2_4_113





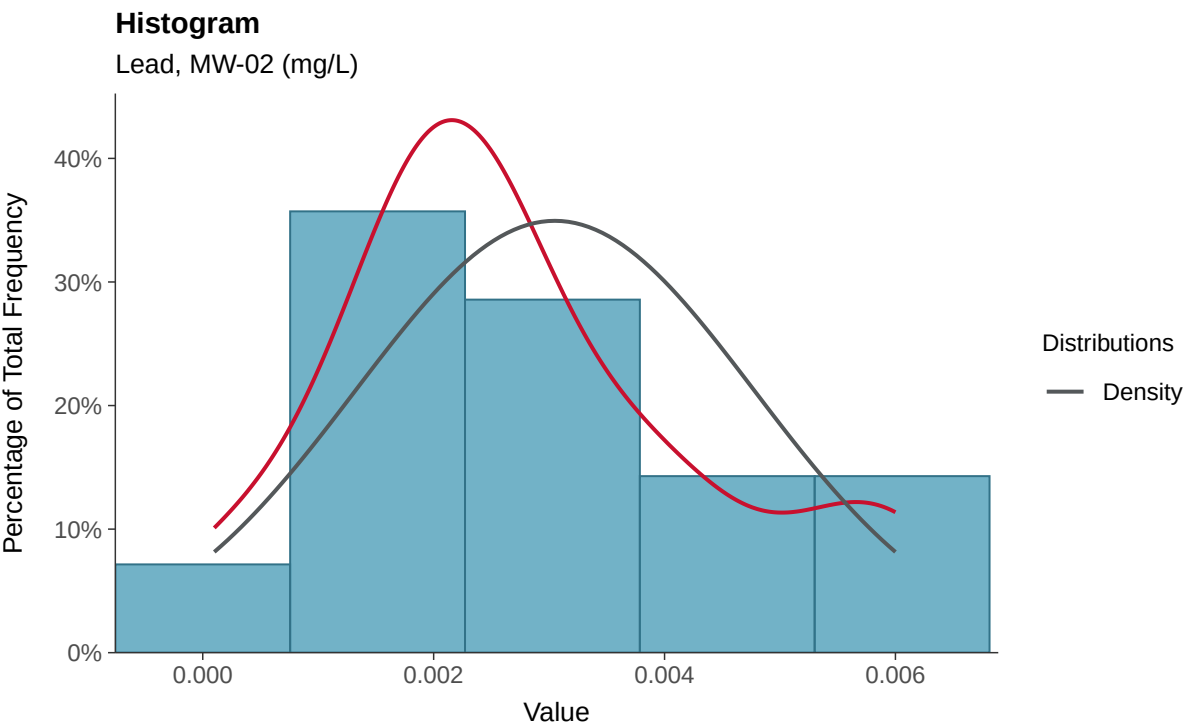
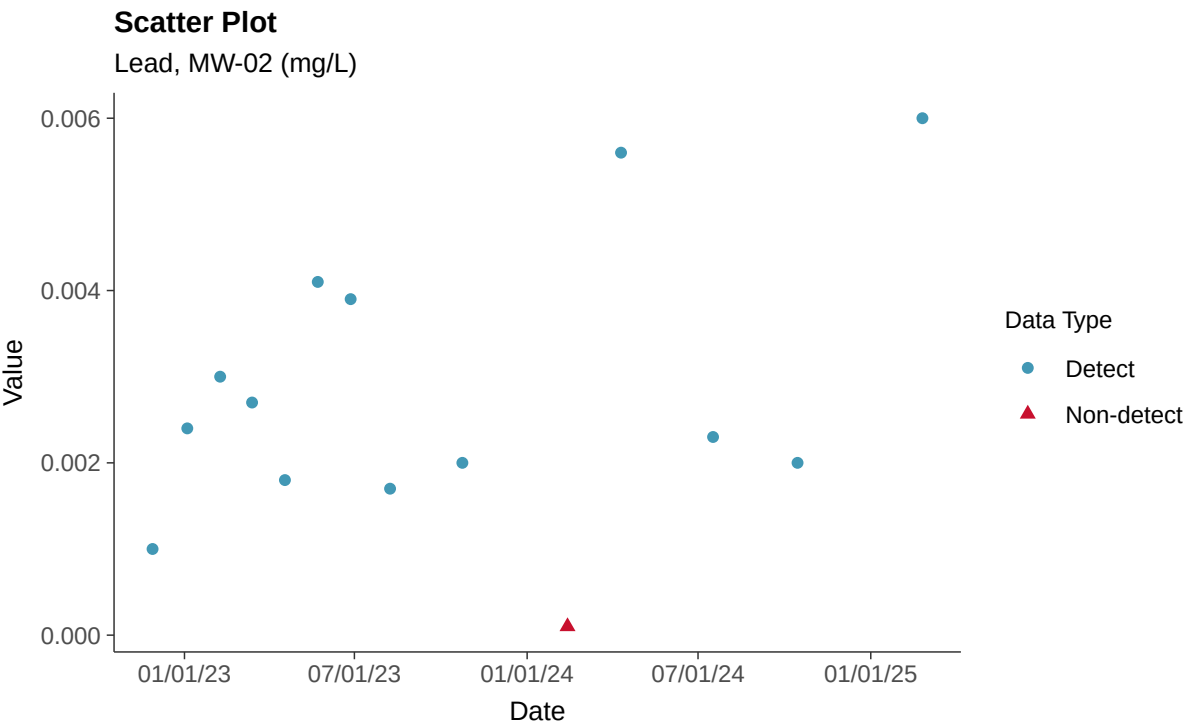


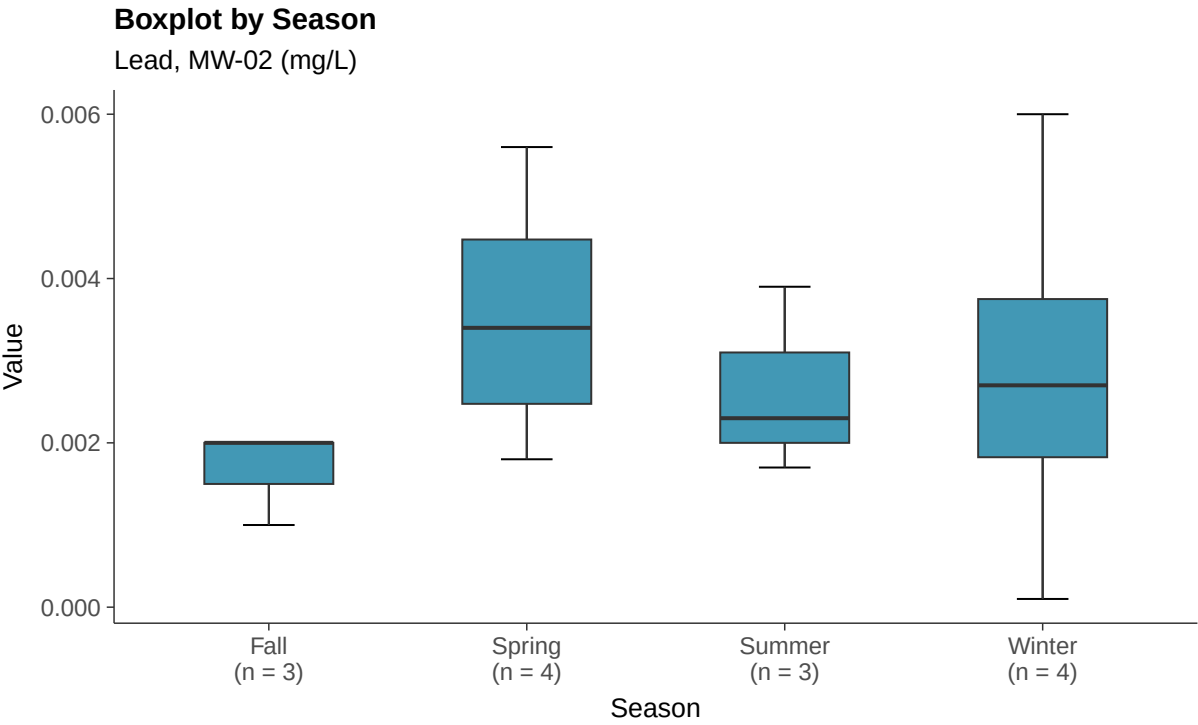
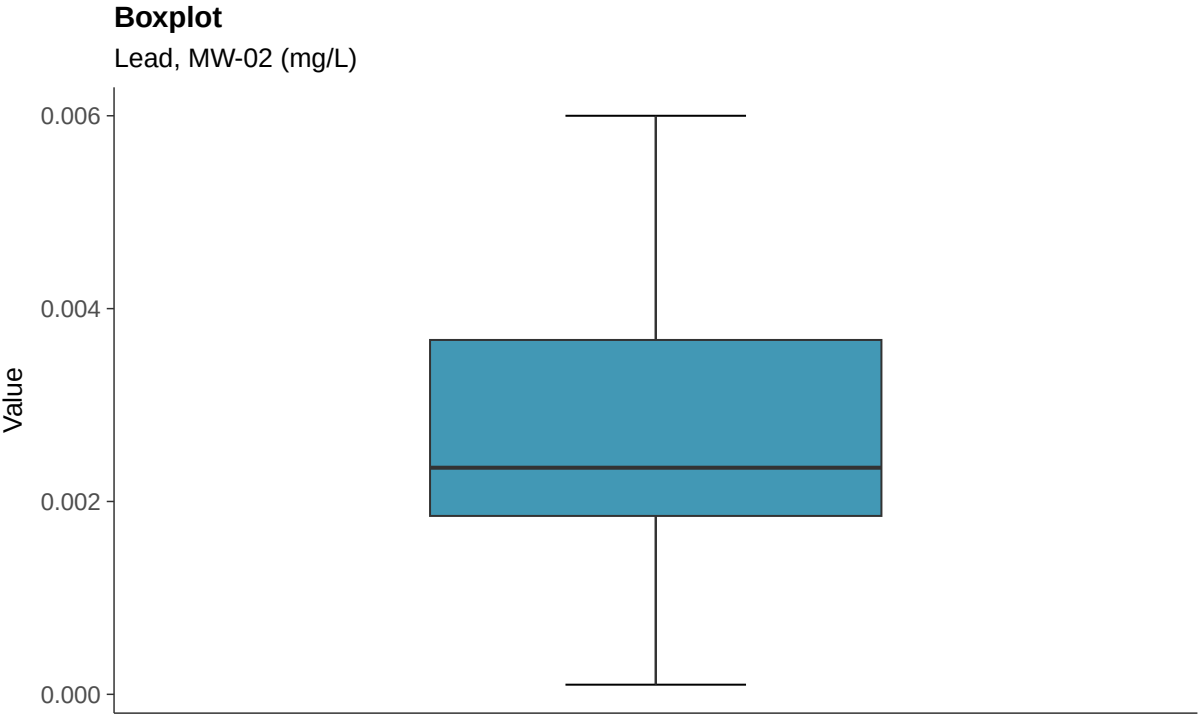


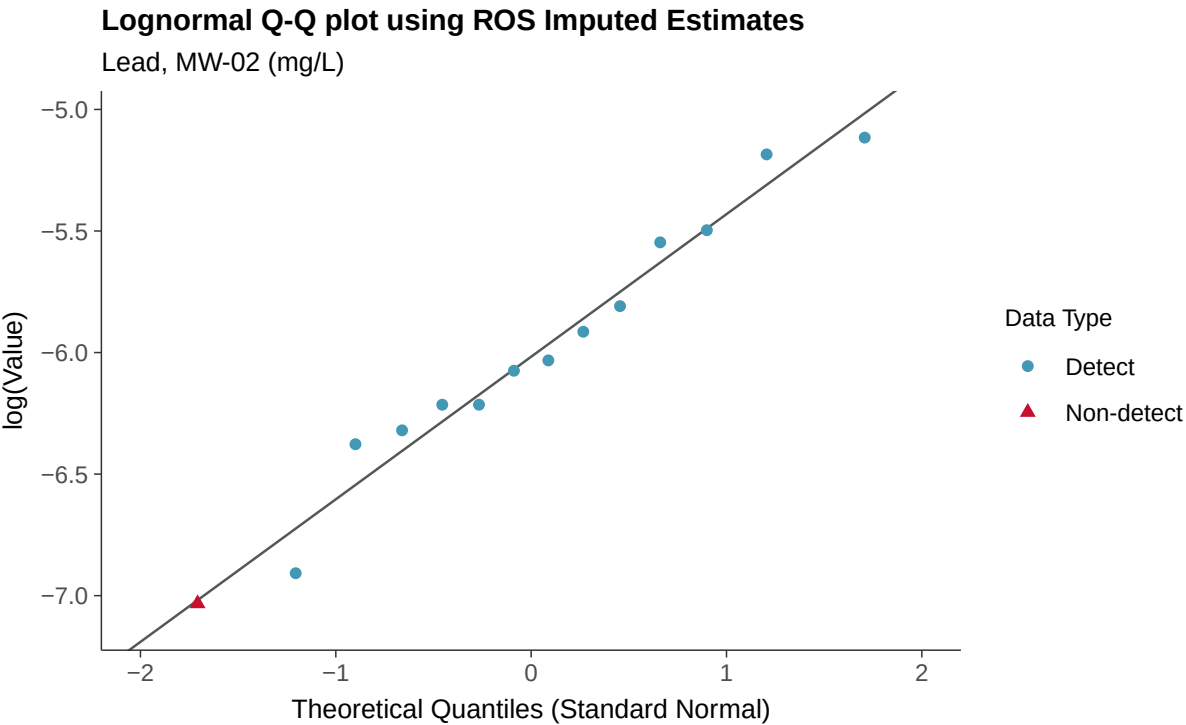
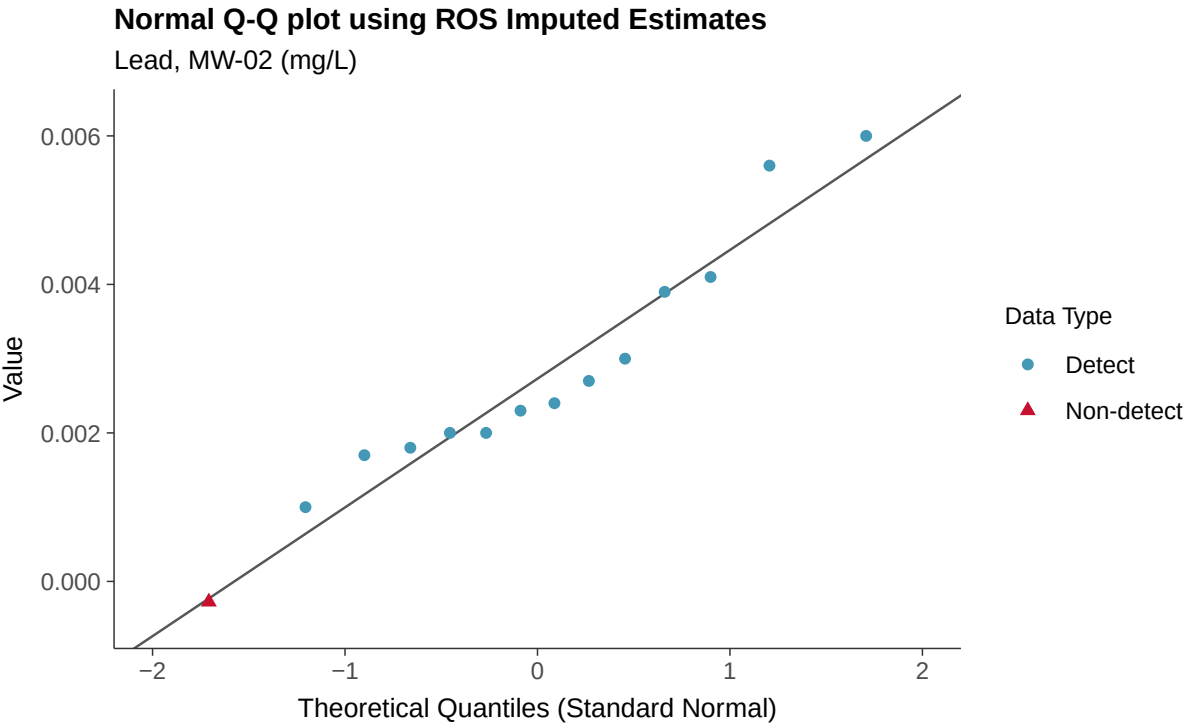


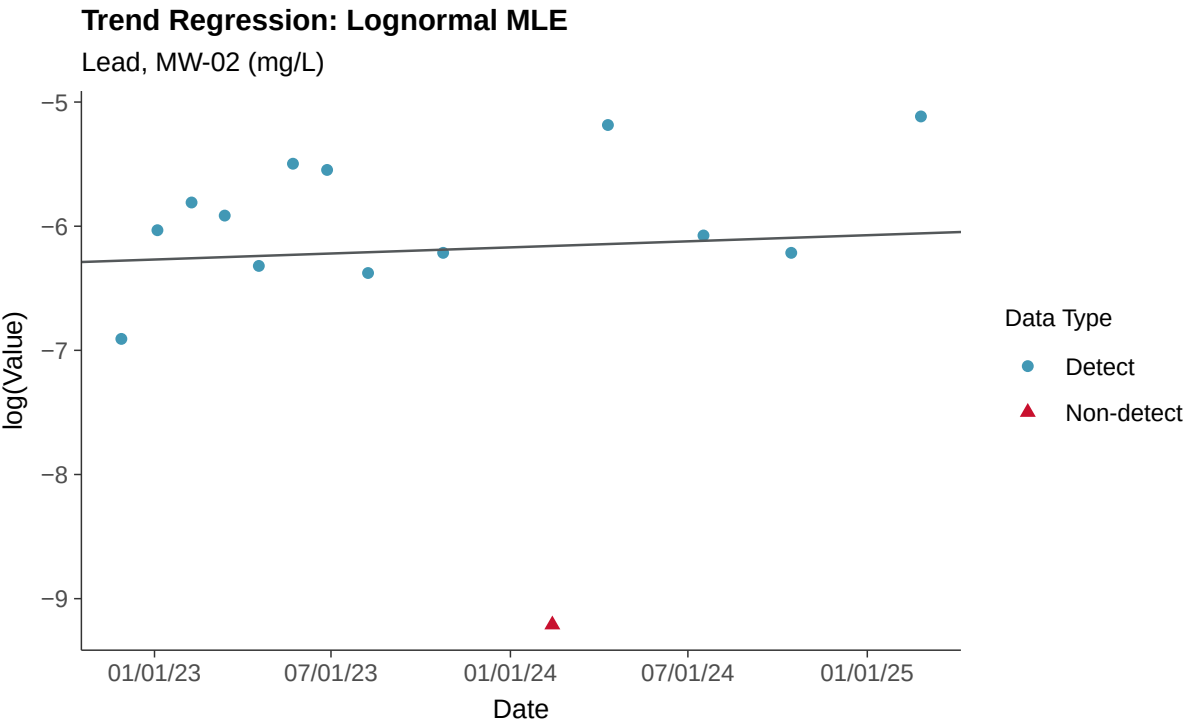
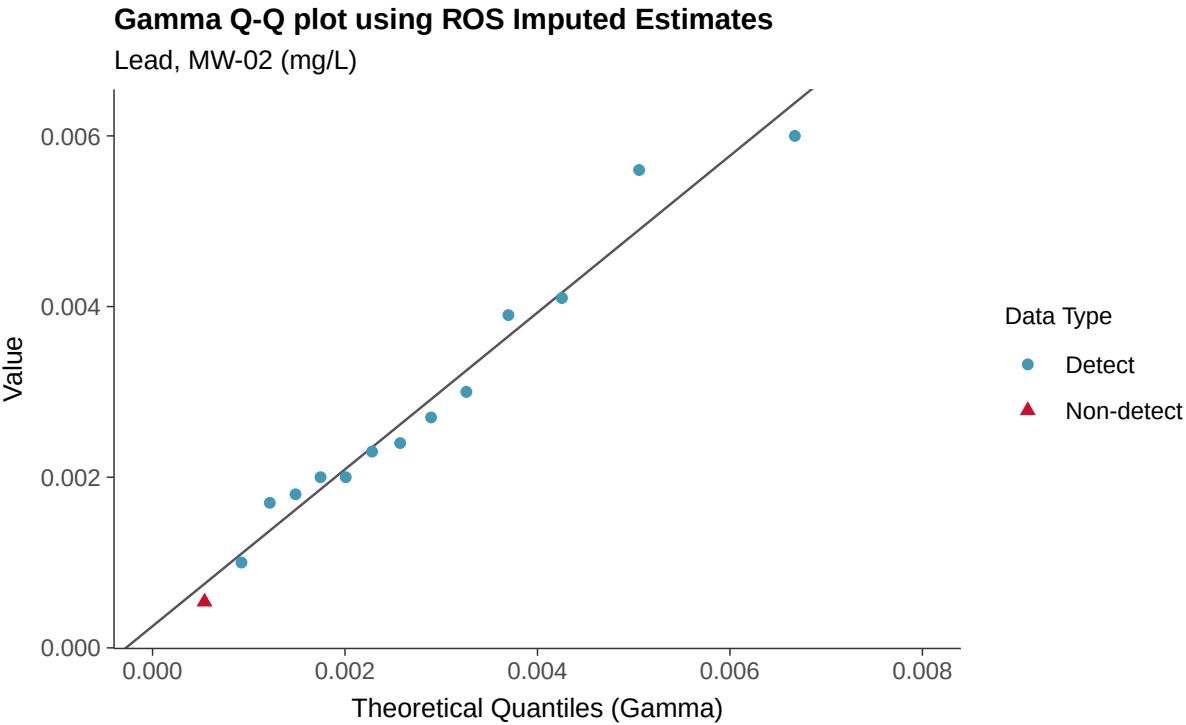
Appendix IV: Lead, MW-02

ID: 12_2_4_115





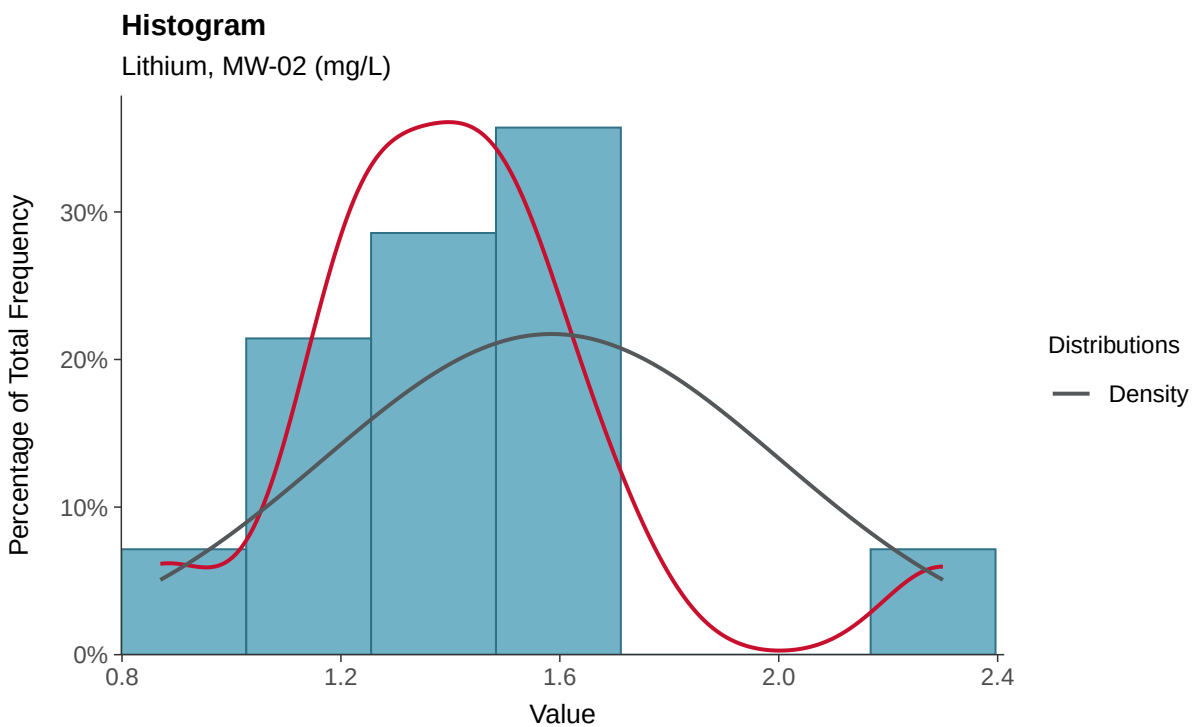
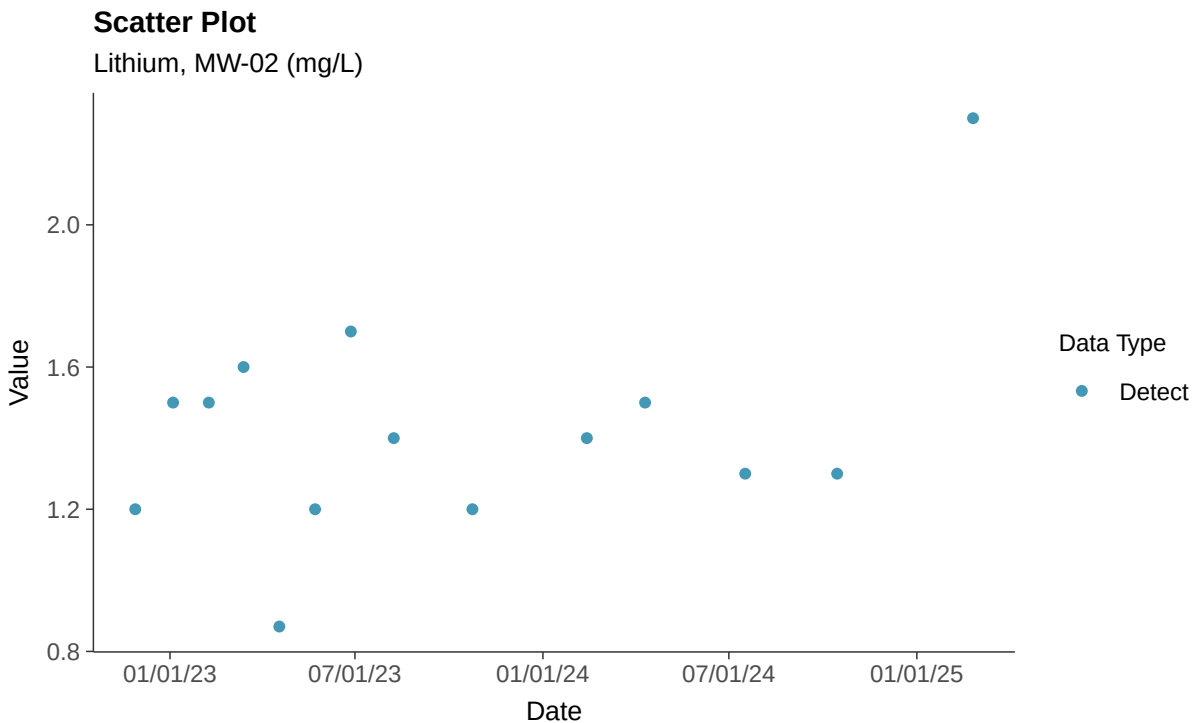


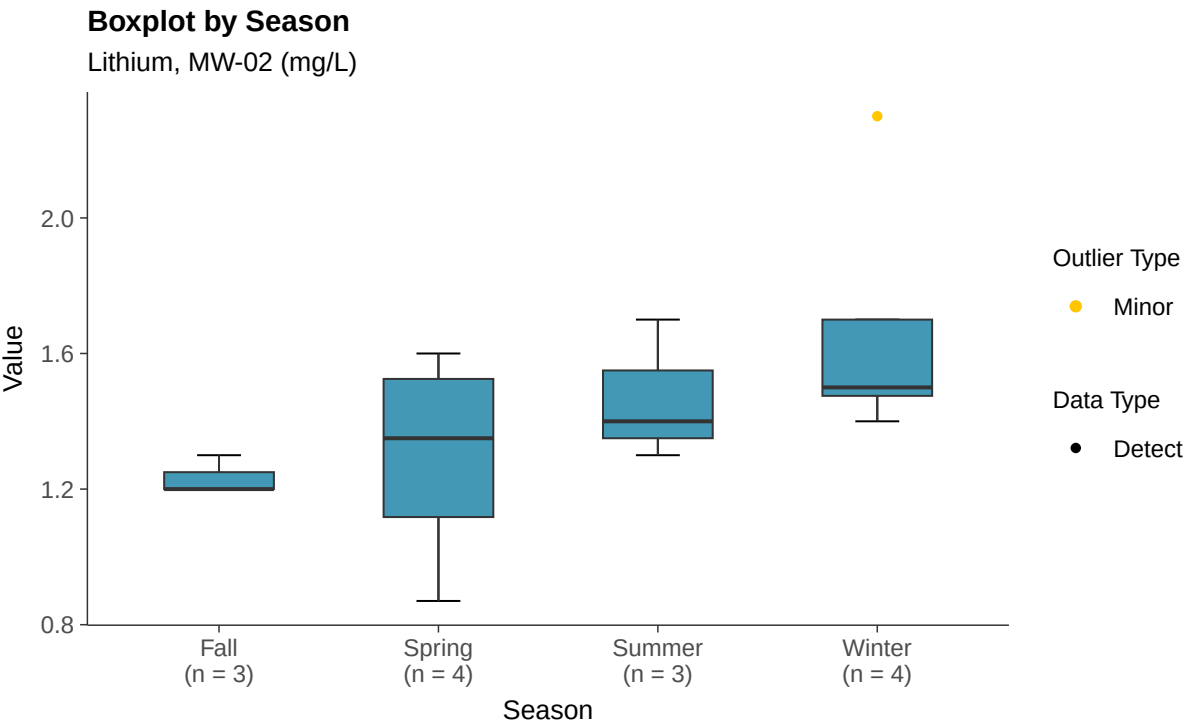
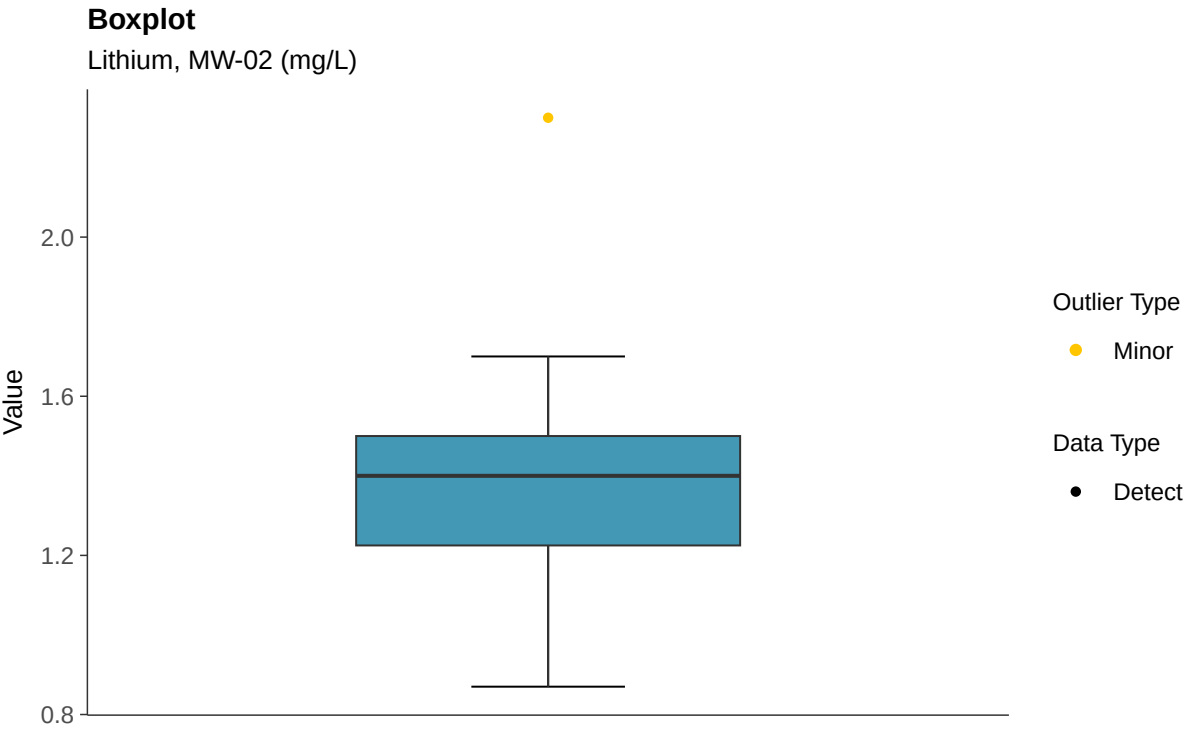


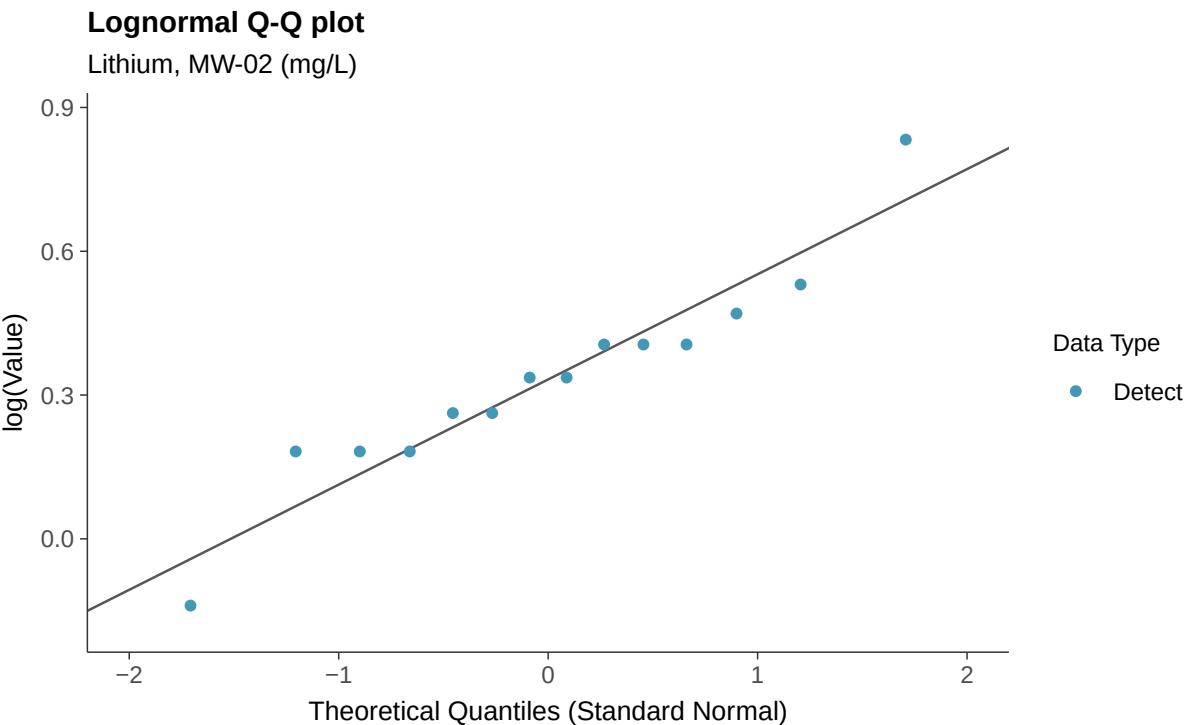
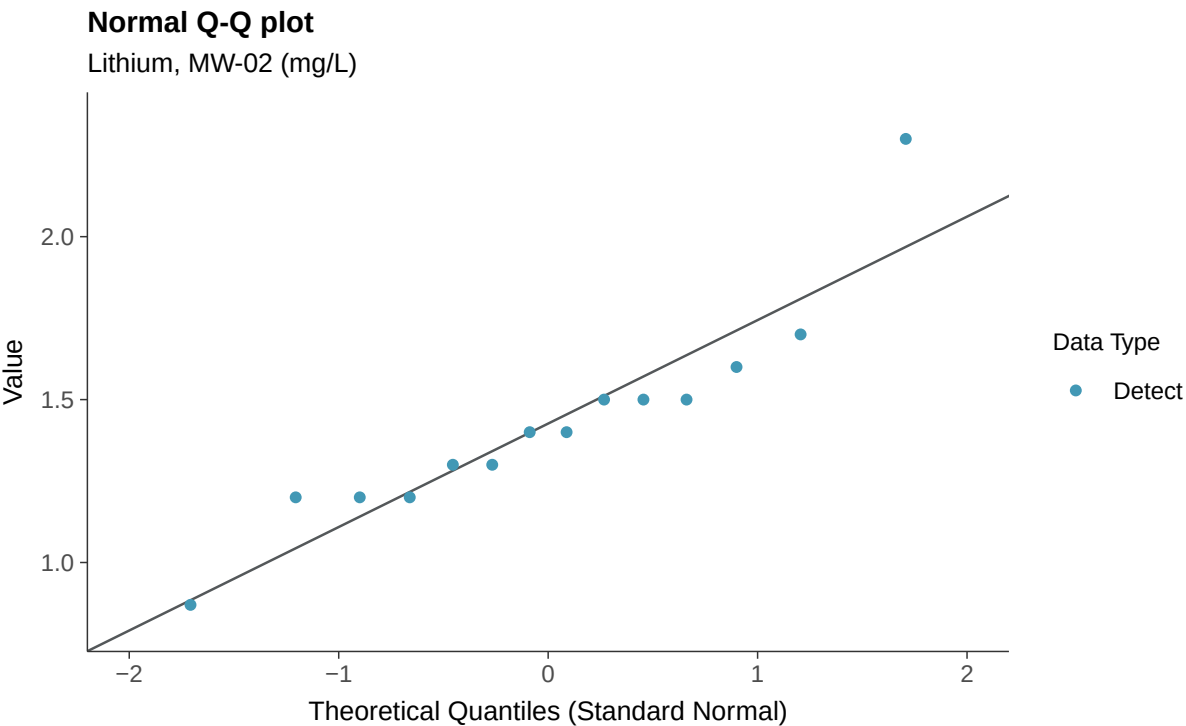


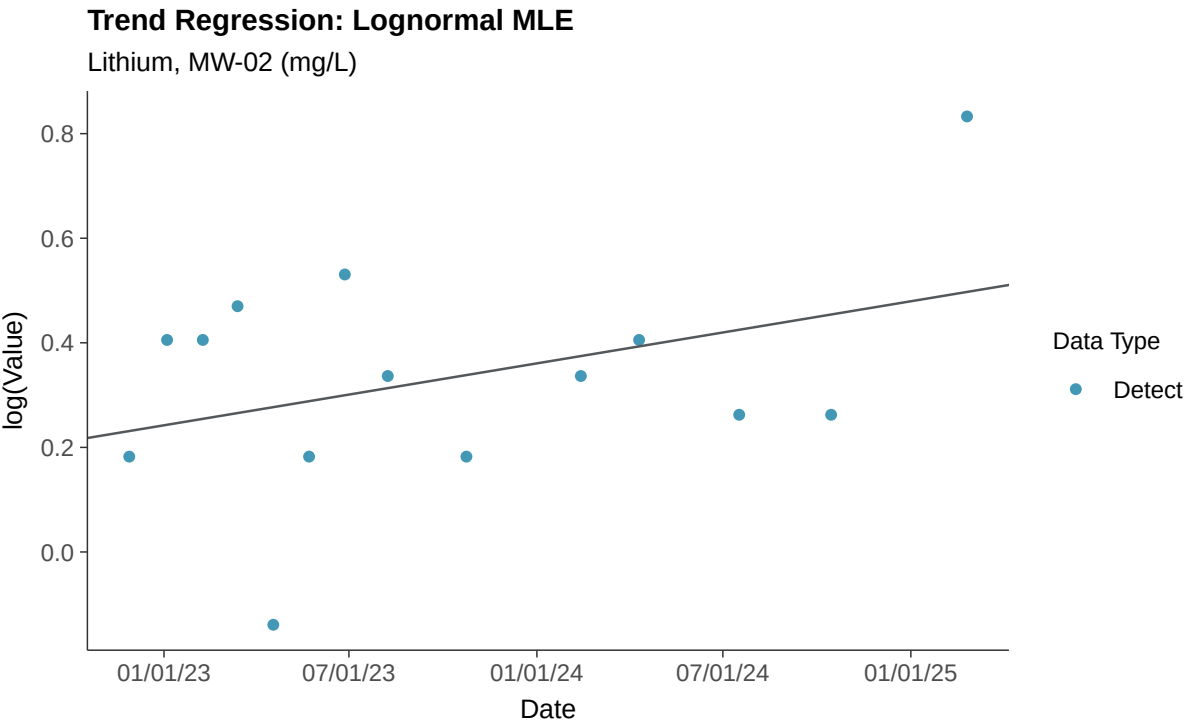
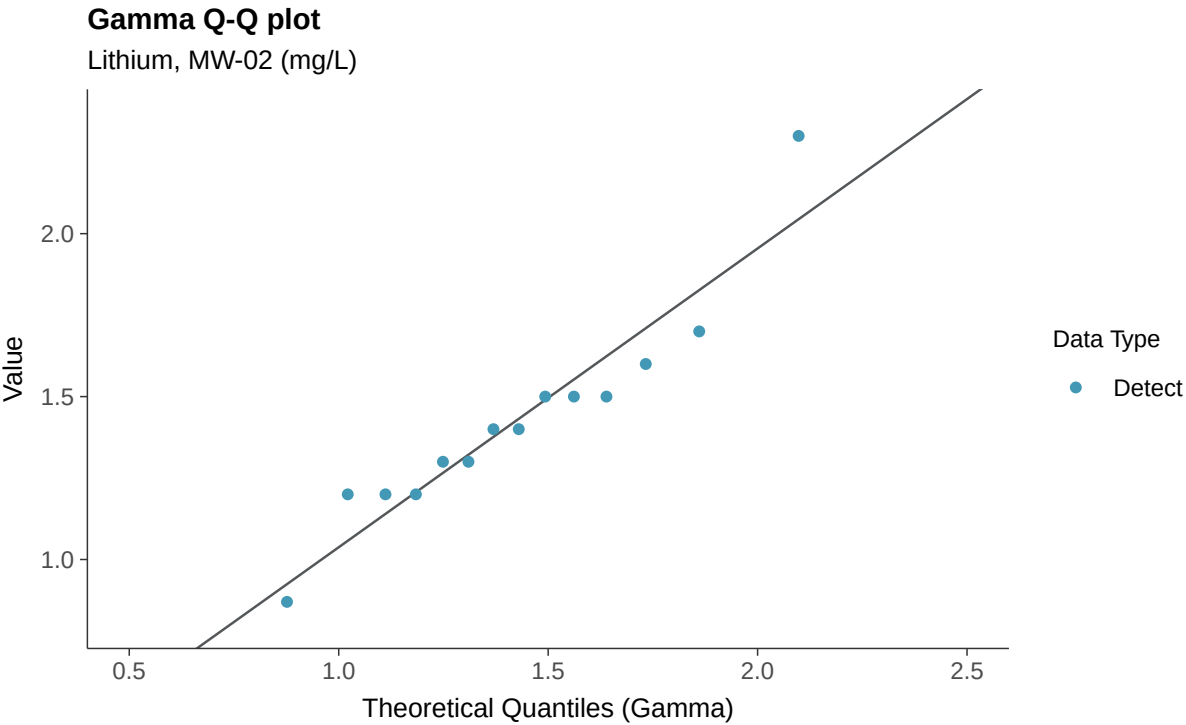
Appendix IV: Lithium, MW-02

ID: 12_2_4_116





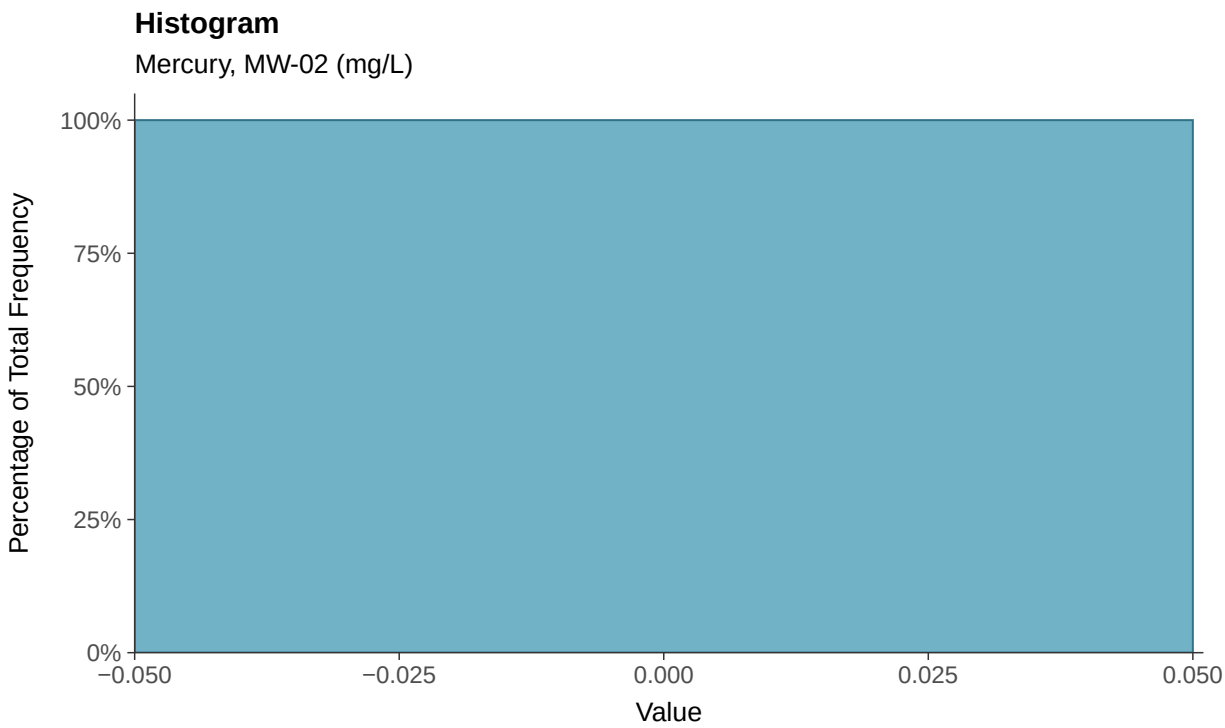
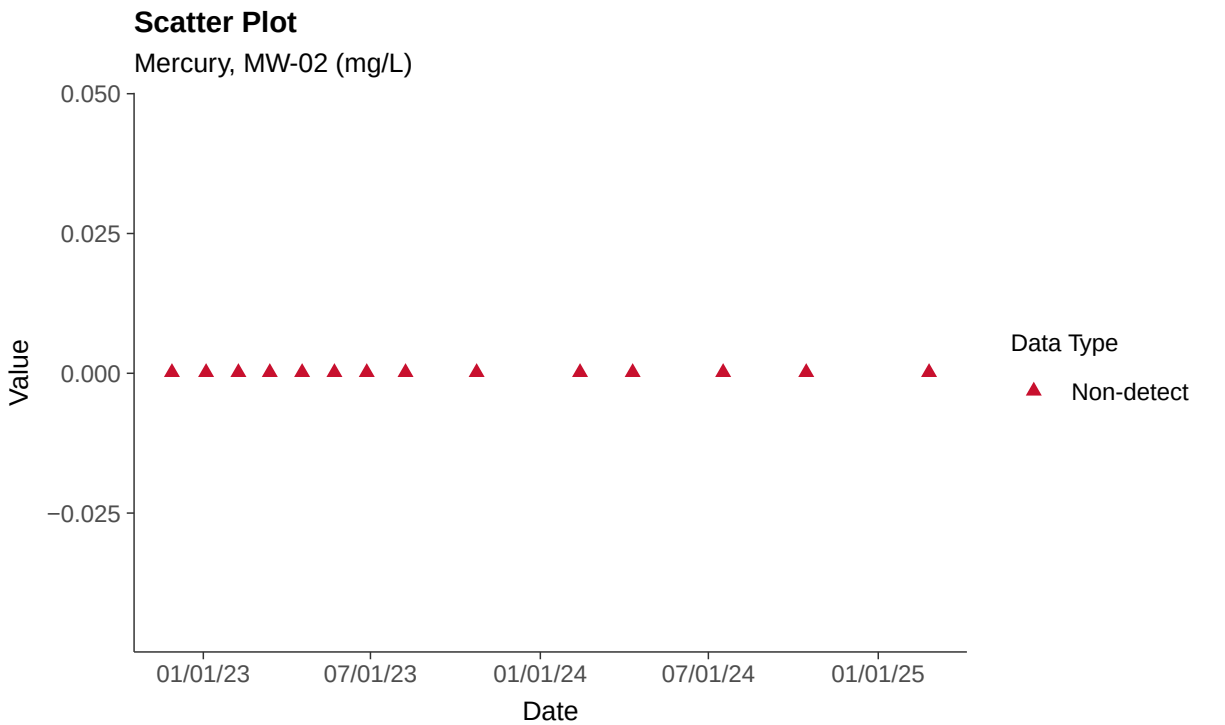


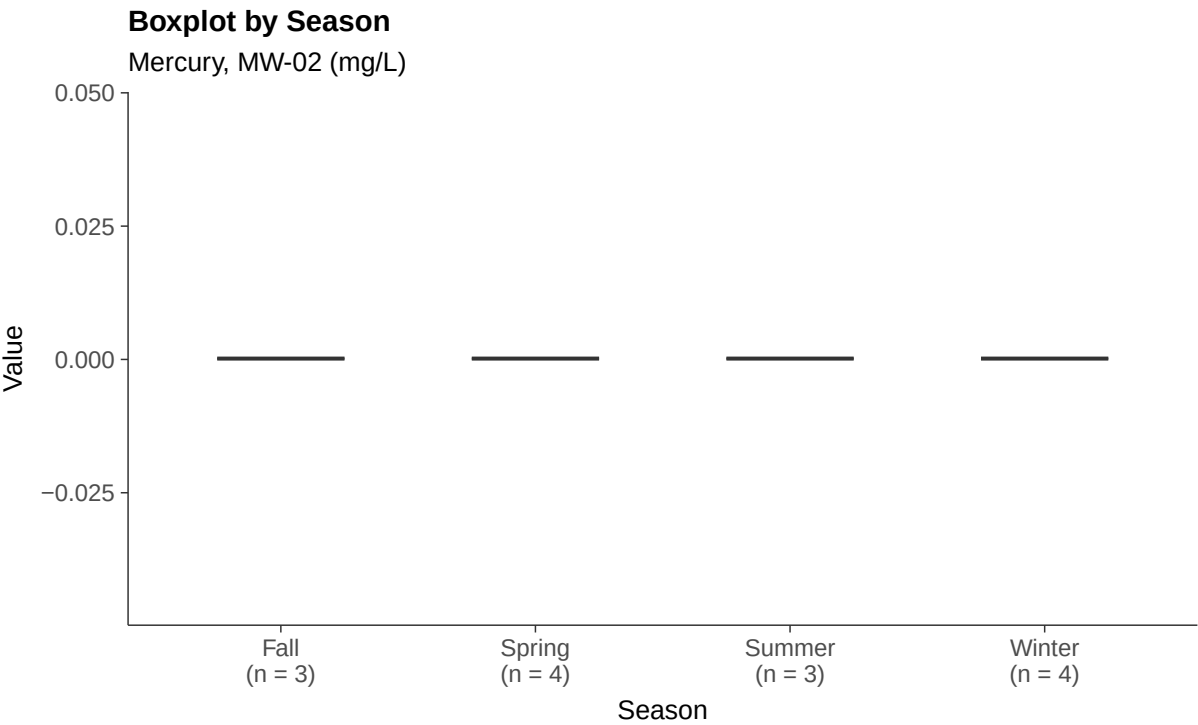
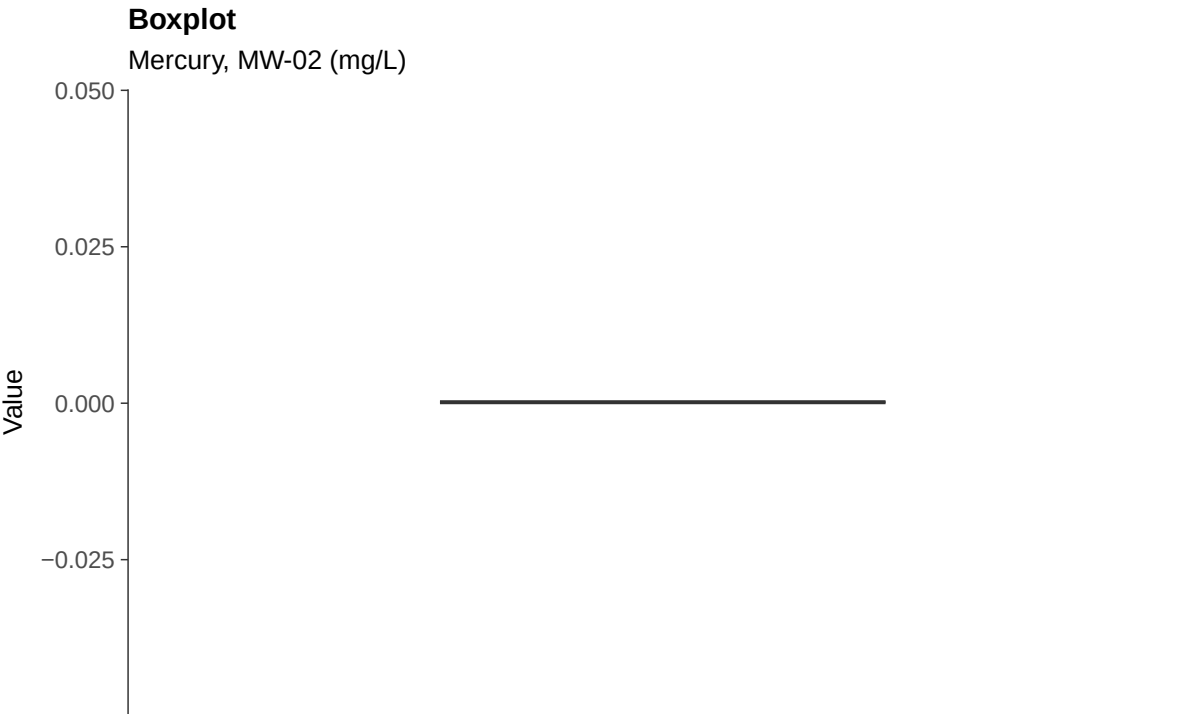




Appendix IV: Mercury, MW-02

ID: 12_2_4_117

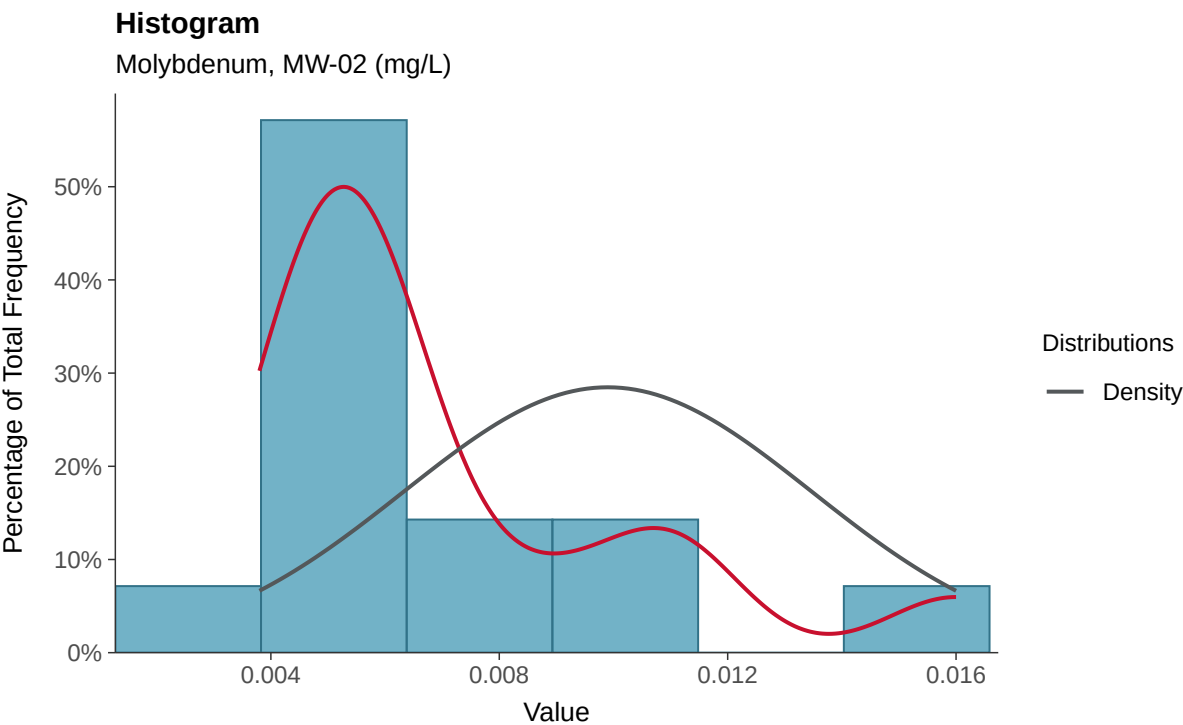
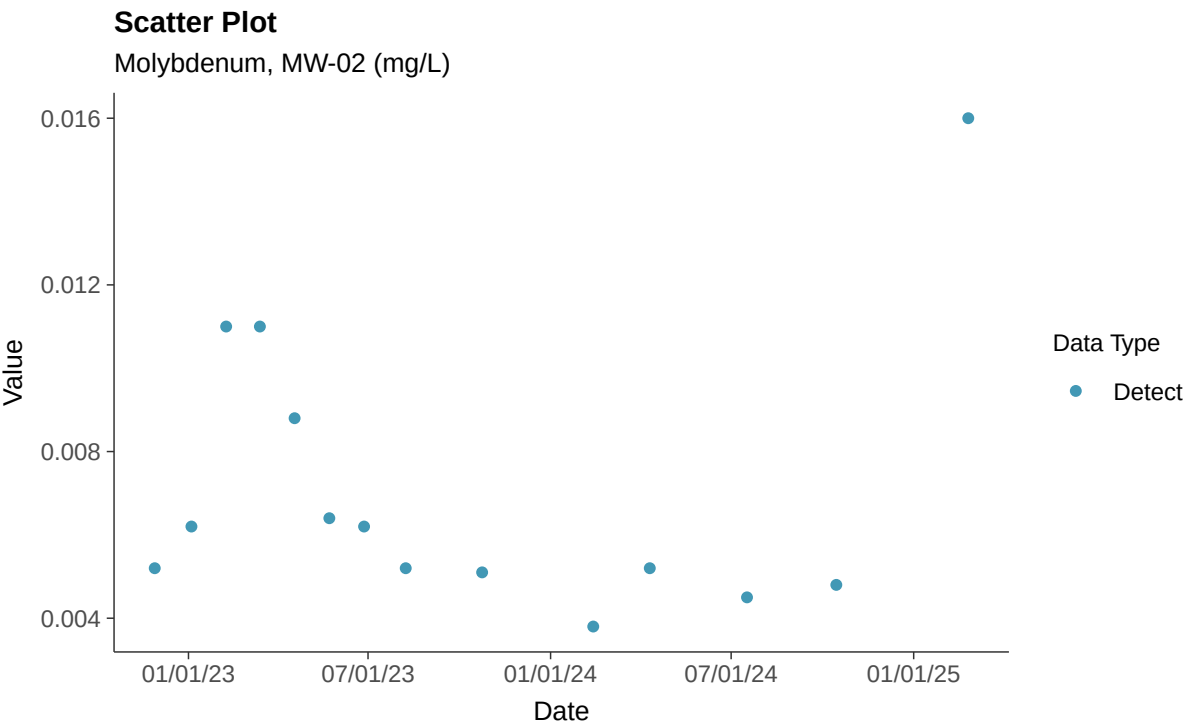


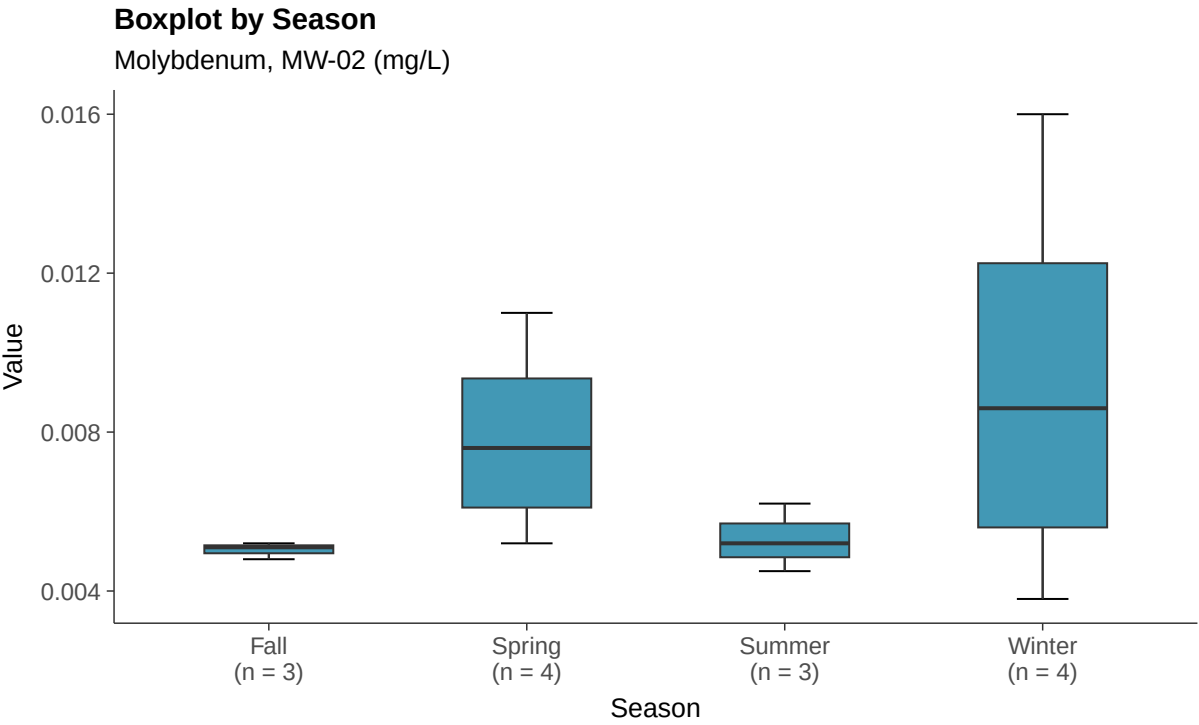
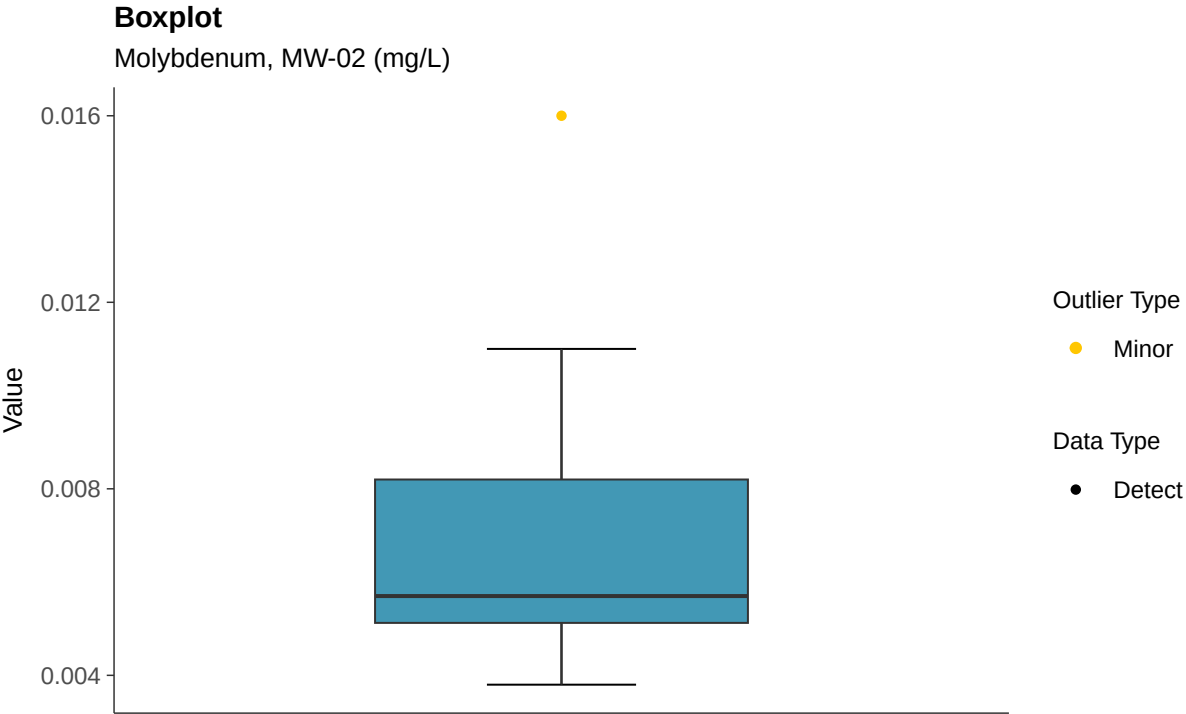


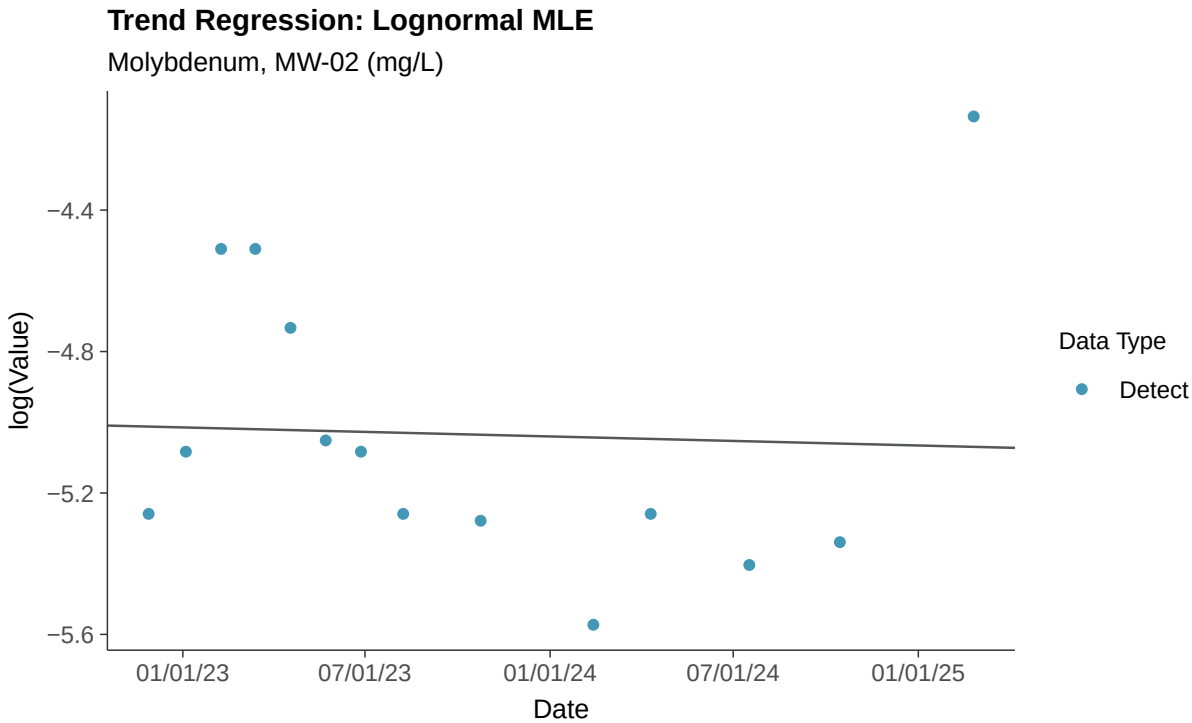
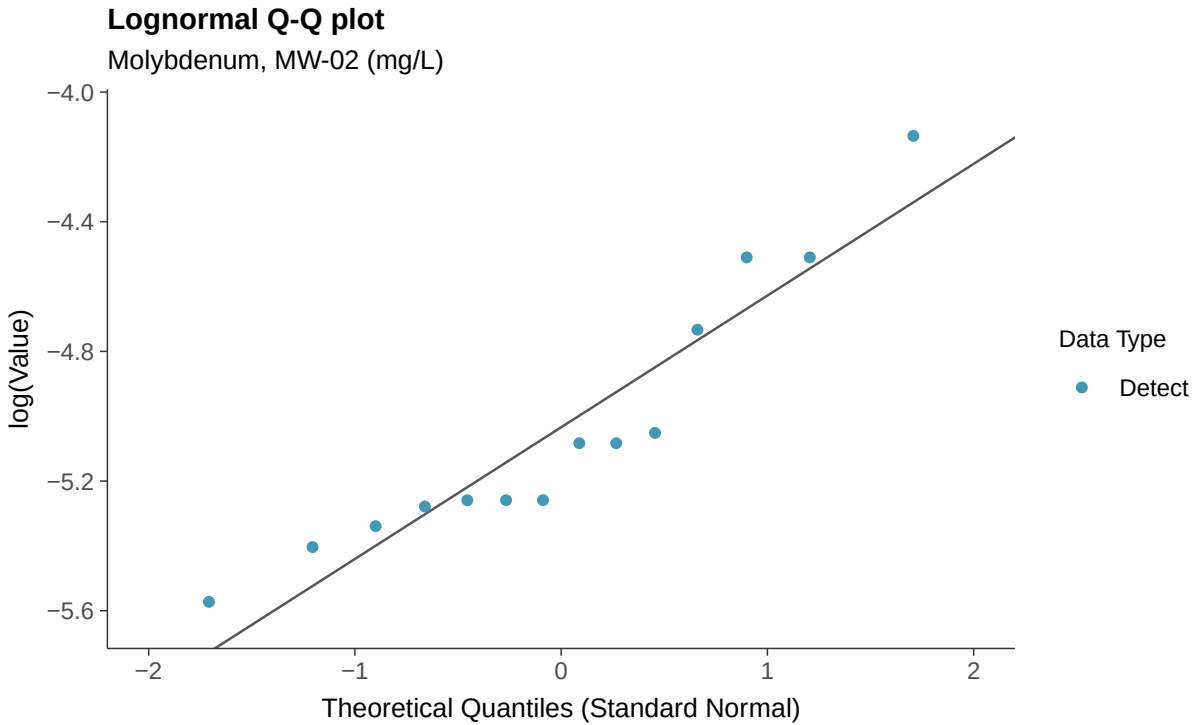


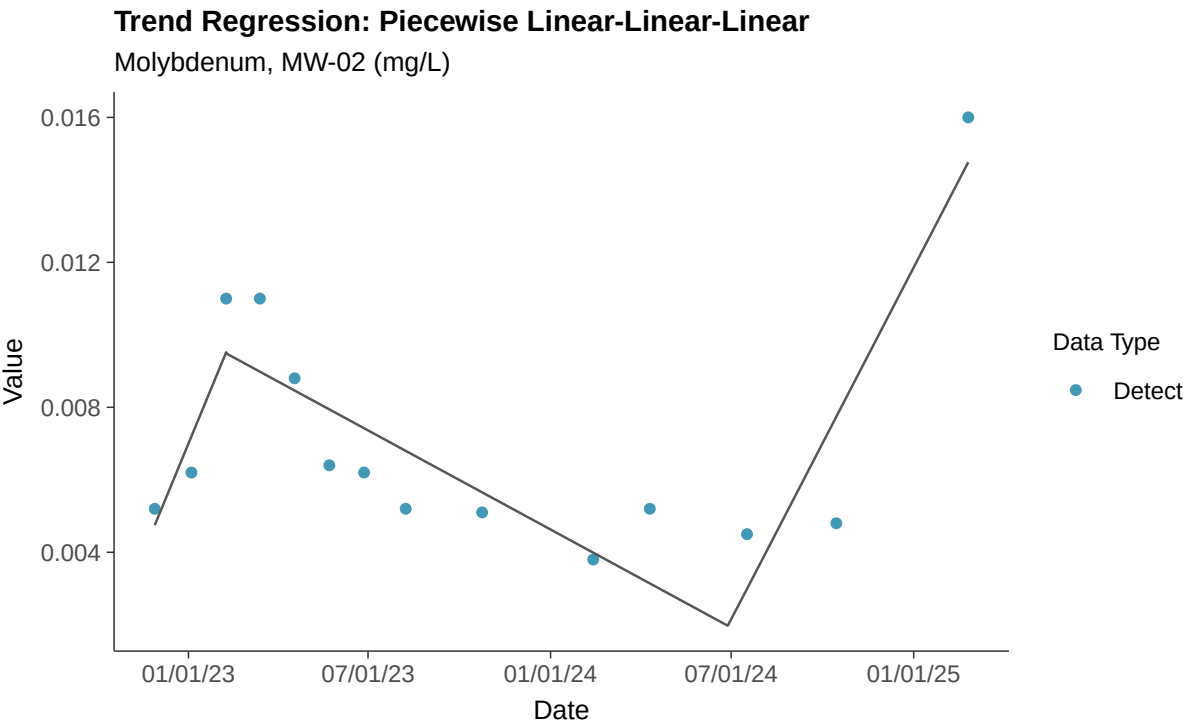
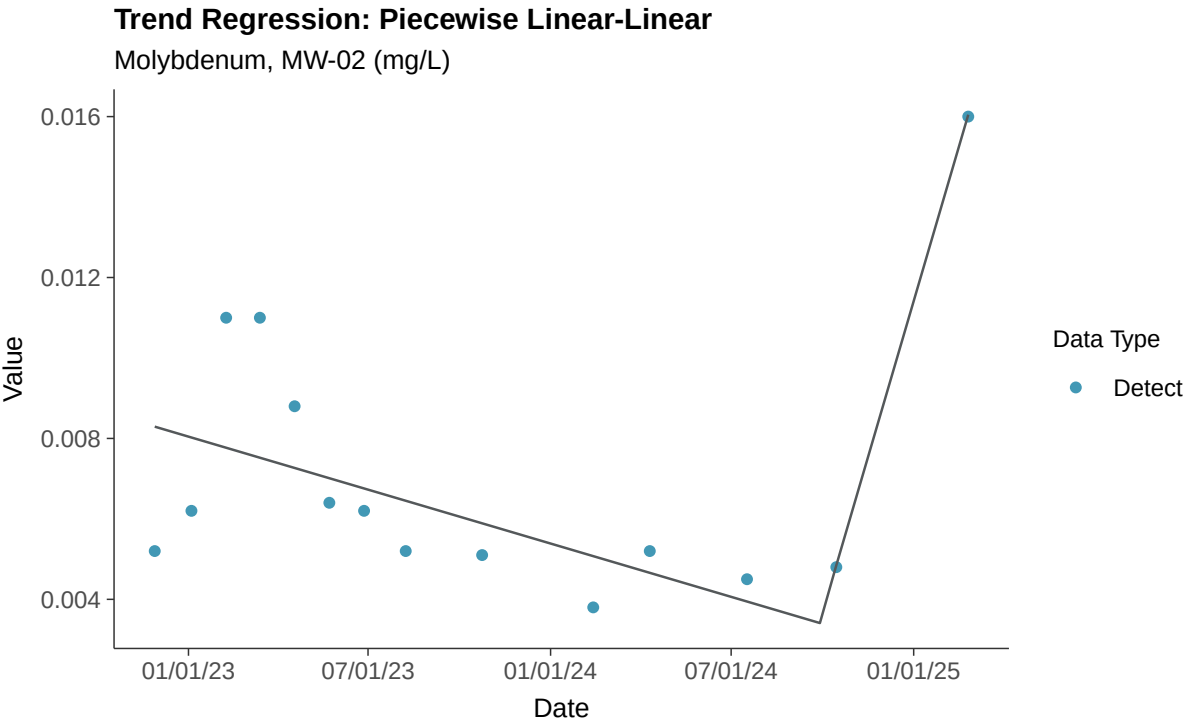
Appendix IV: Molybdenum, MW-02

ID: 12_2_4_118





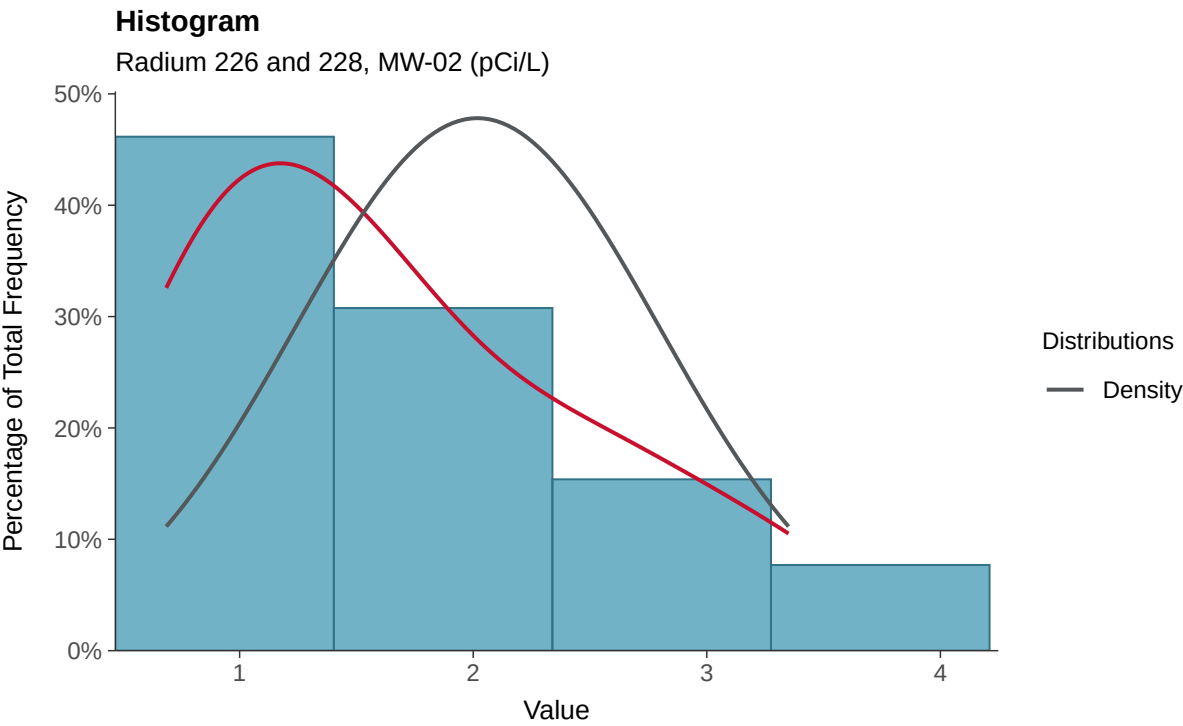
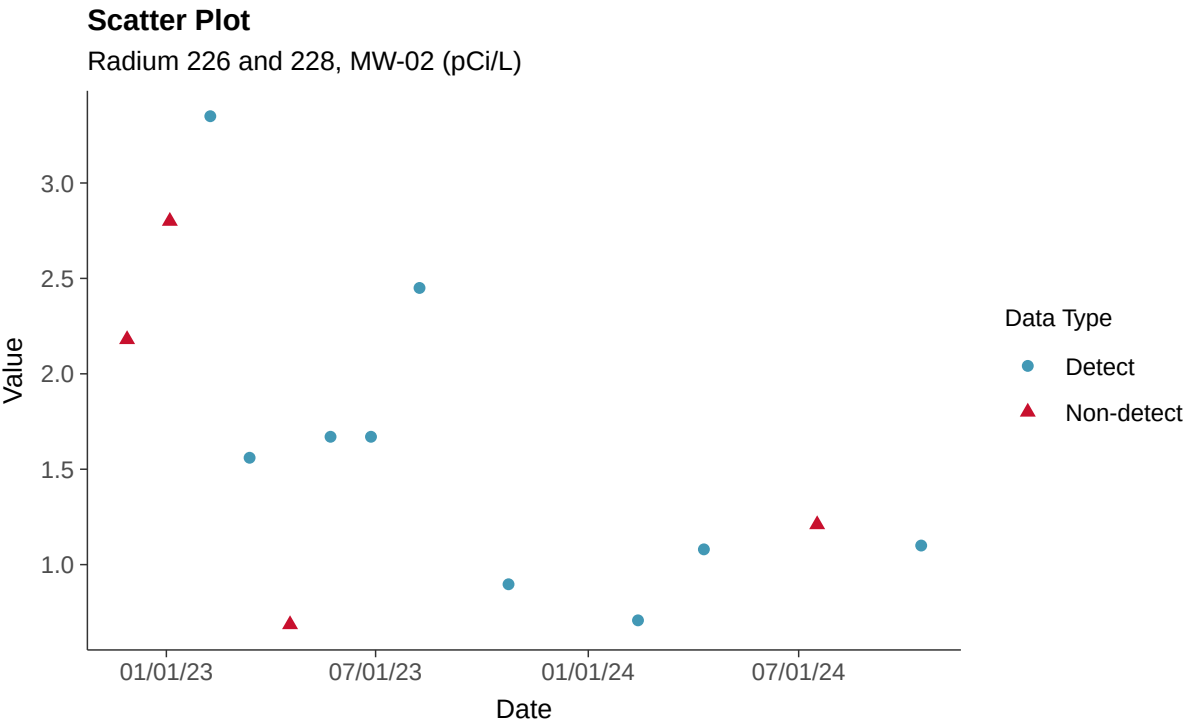






Appendix IV: Radium 226 and 228, MW-02

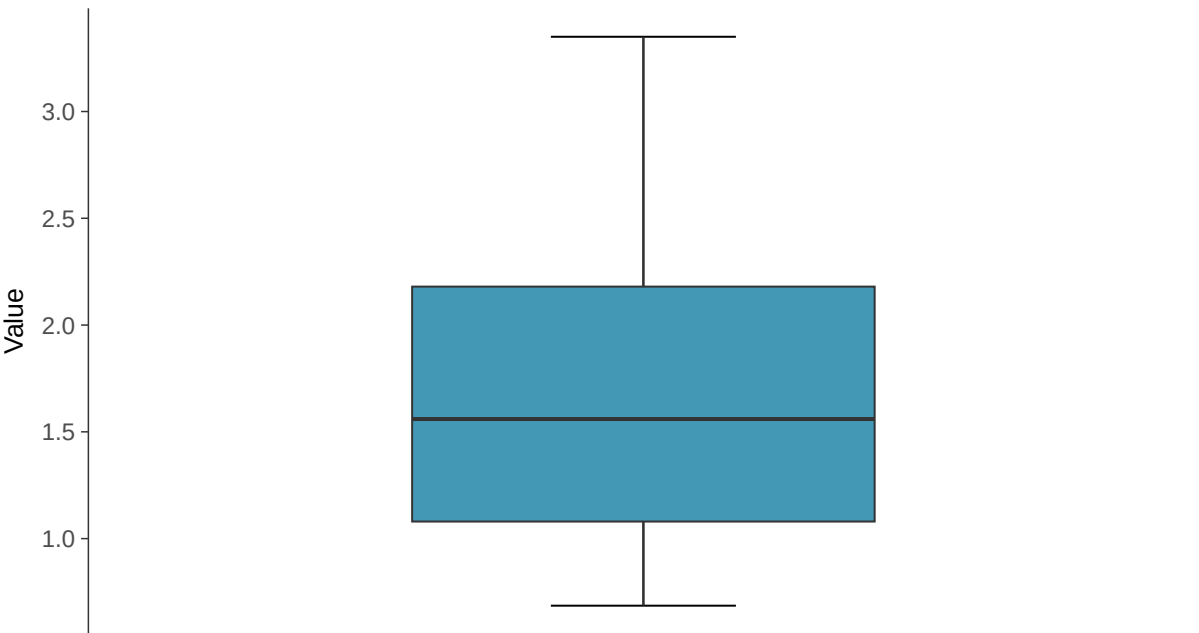
ID: 12_2_4_121





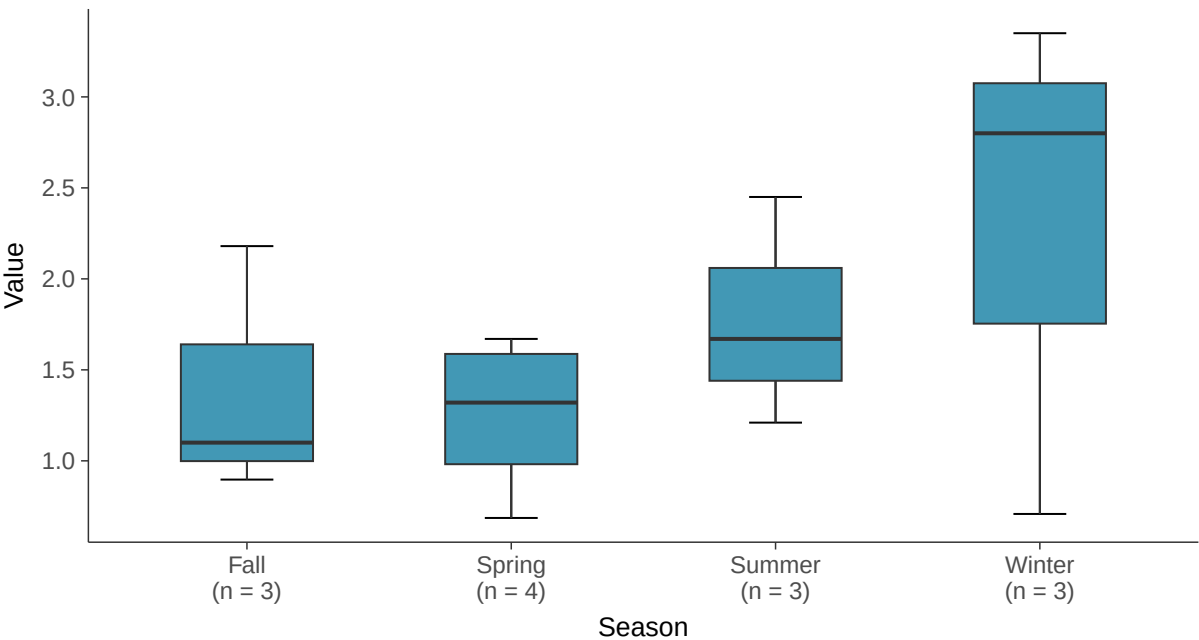
Boxplot

Radium 226 and 228, MW-02 (pCi/L)



Boxplot by Season

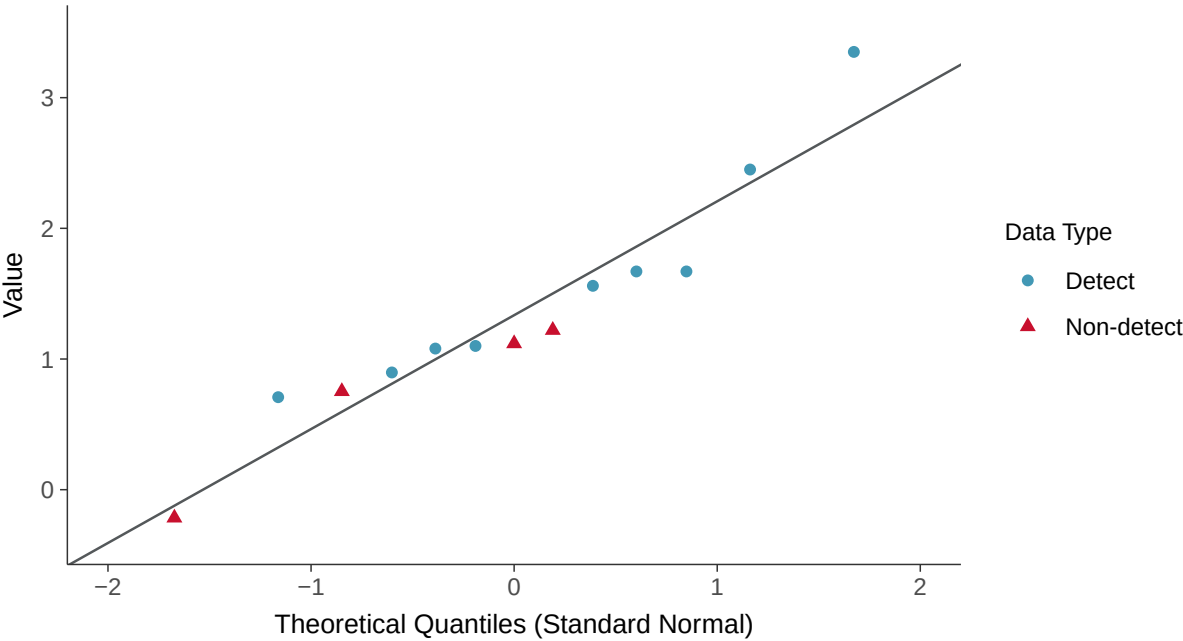
Radium 226 and 228, MW-02 (pCi/L)





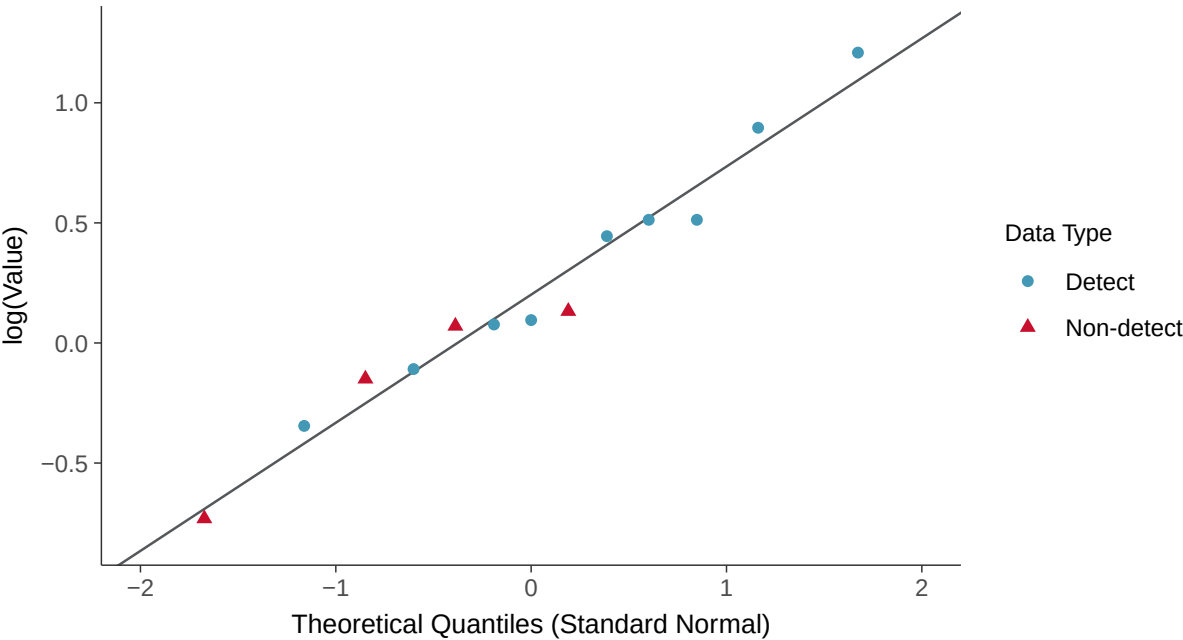
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

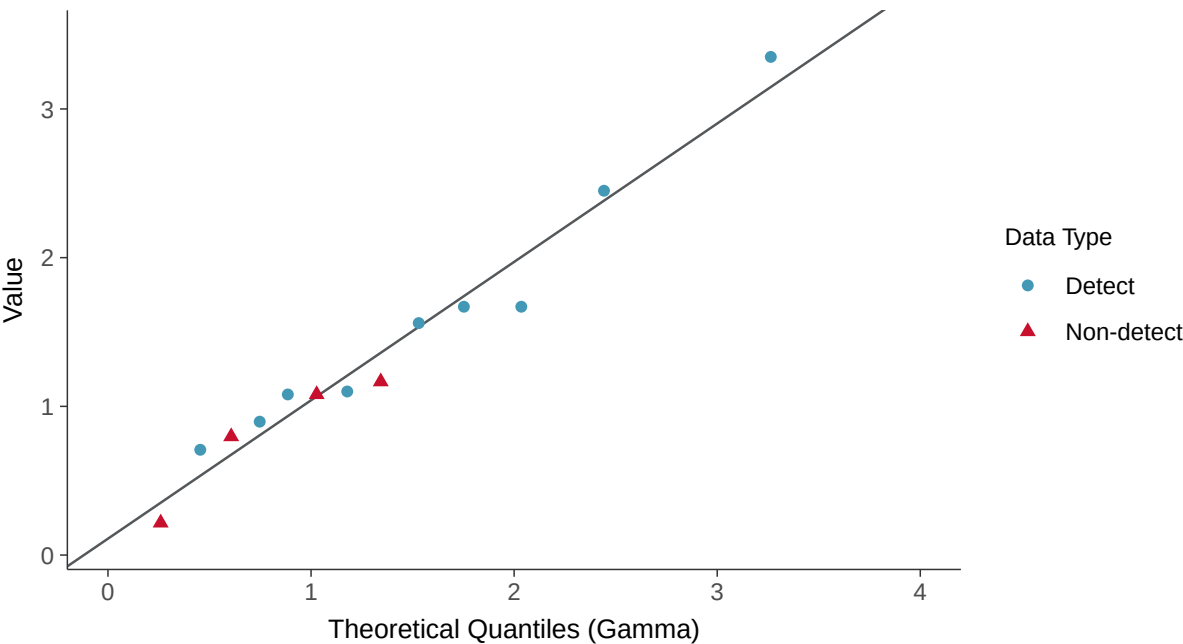
Radium 226 and 228, MW-02 (pCi/L)





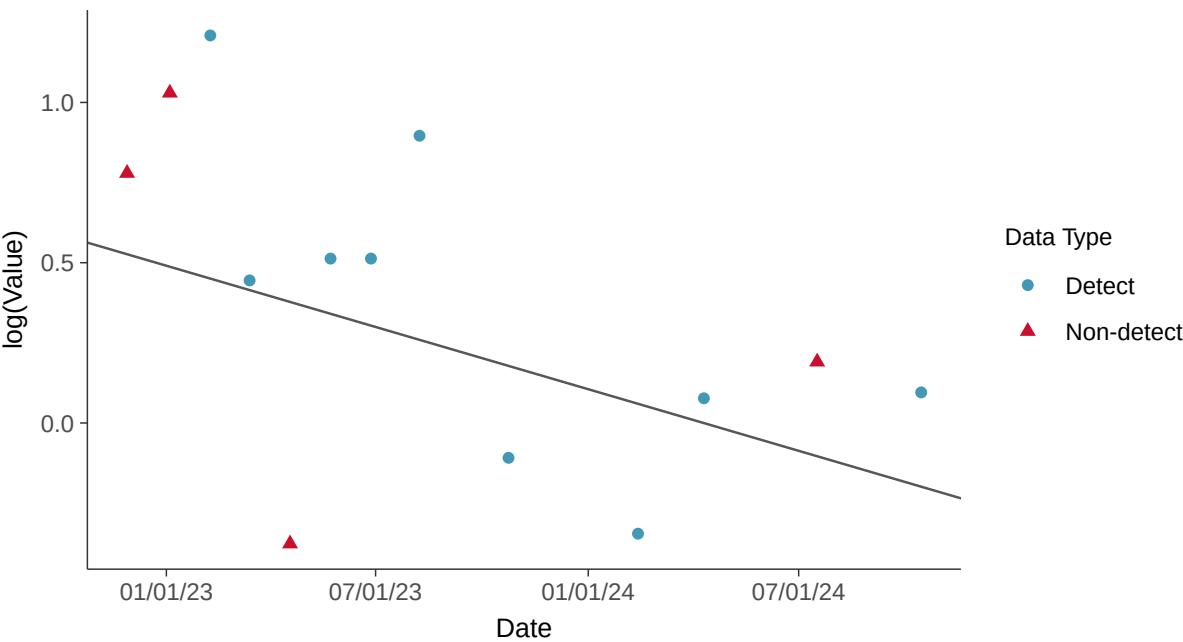
Gamma Q-Q plot using ROS Imputed Estimates

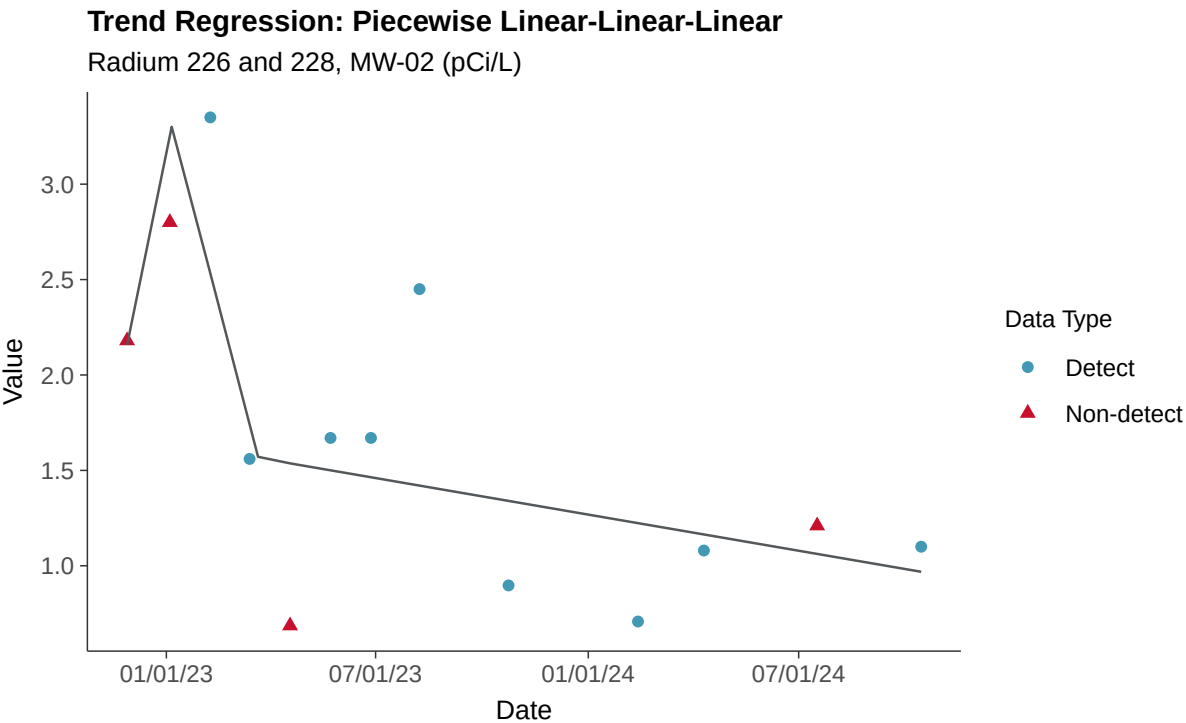
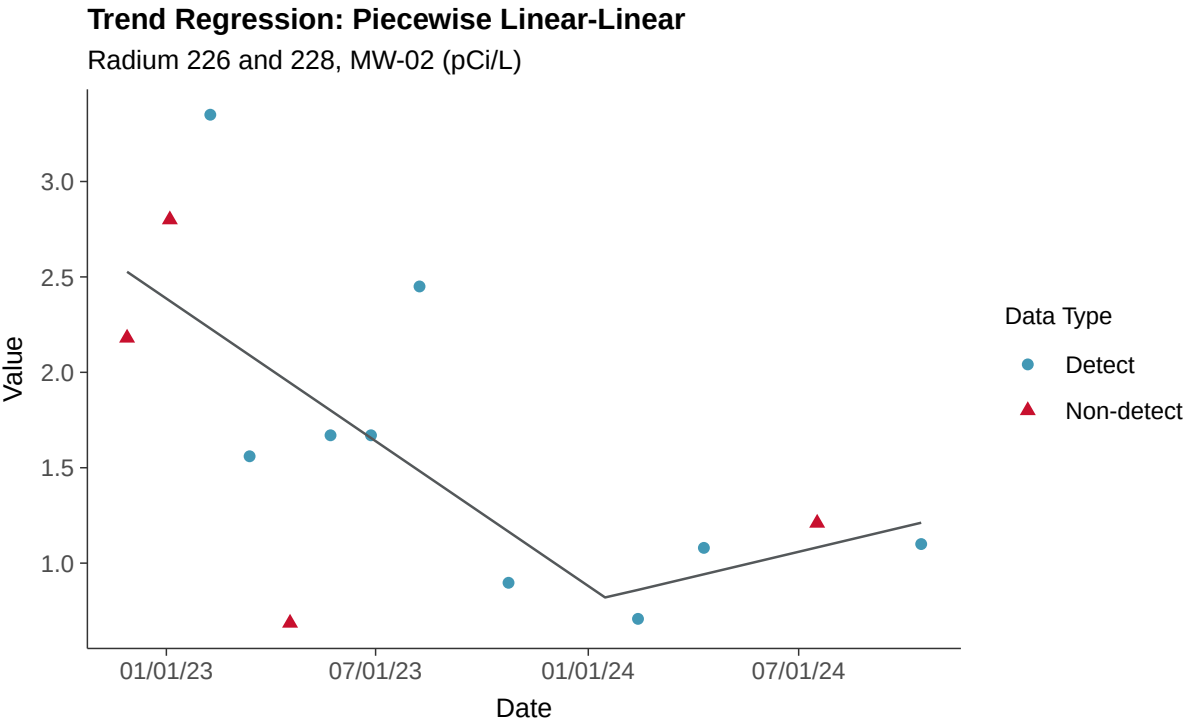
Radium 226 and 228, MW-02 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-02 (pCi/L)

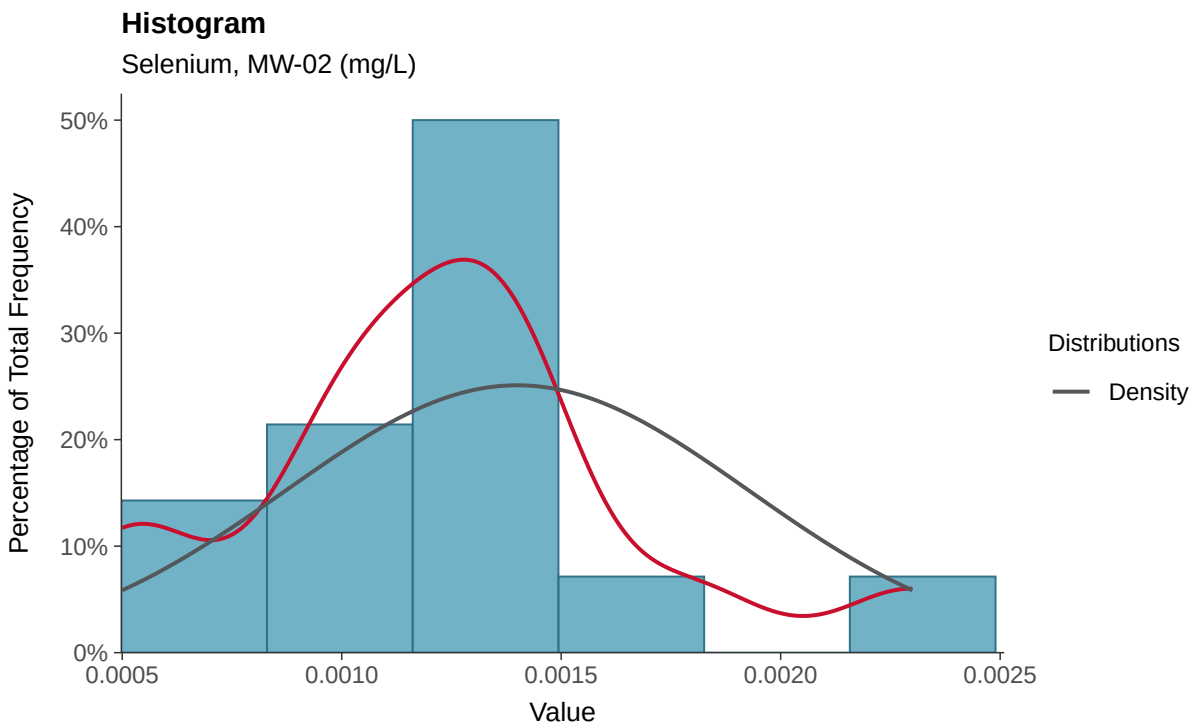
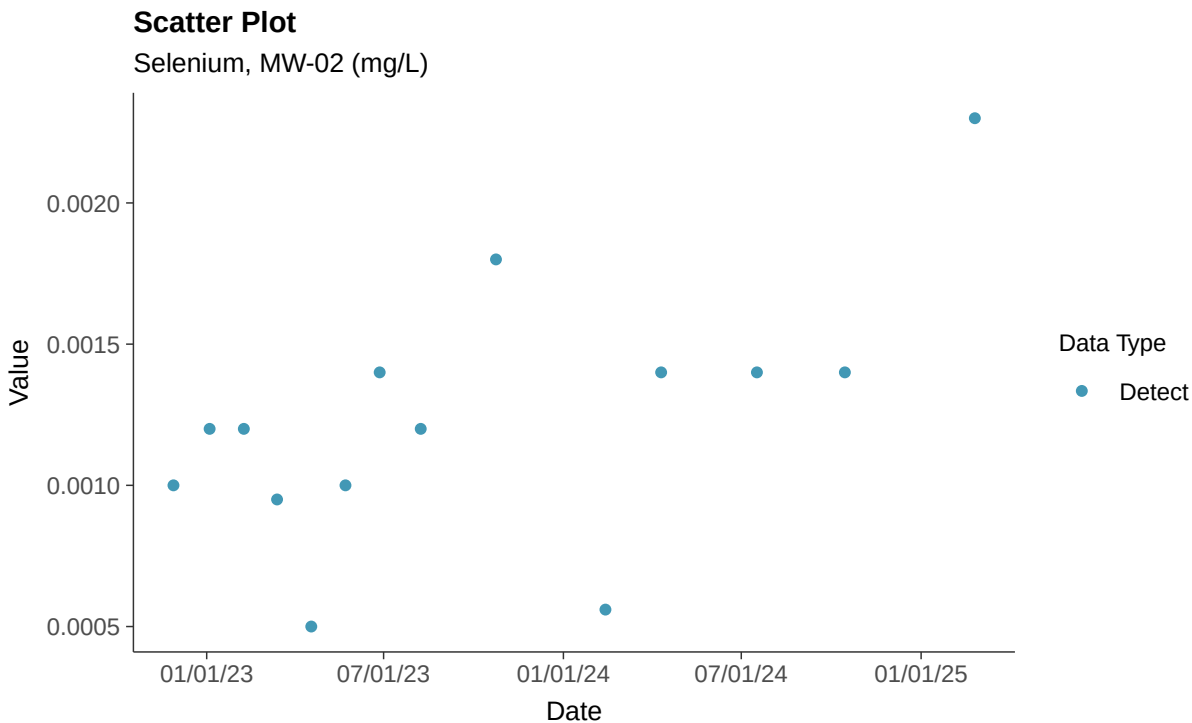


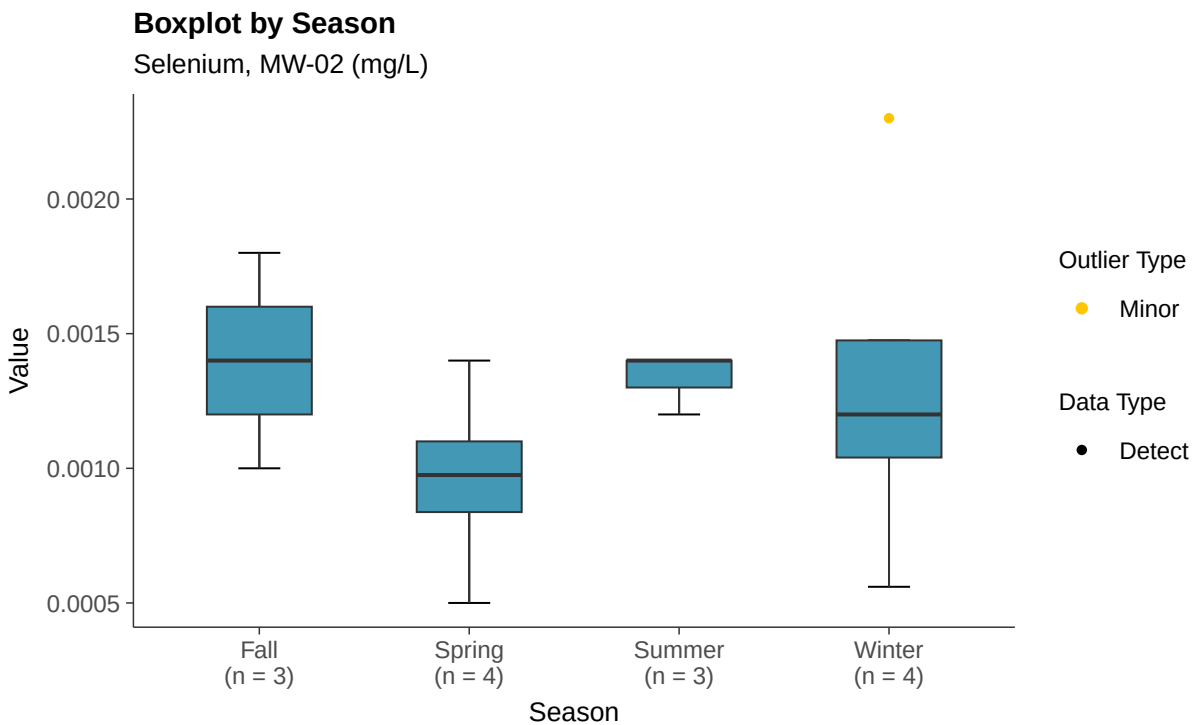
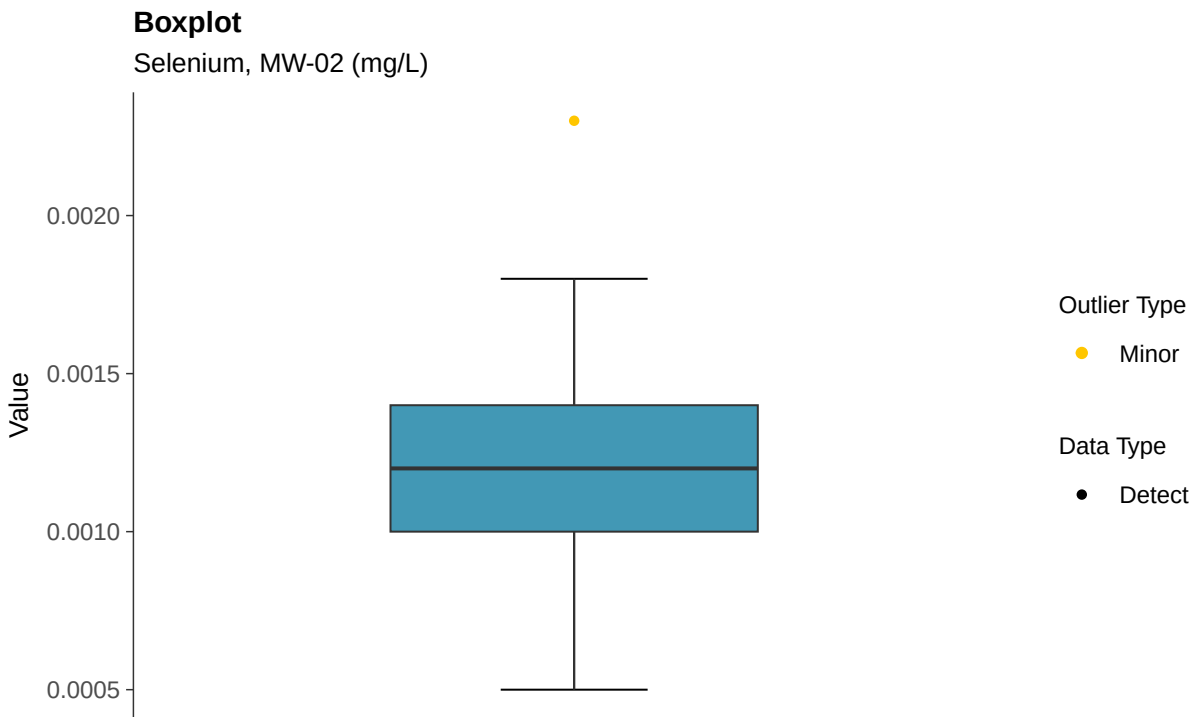


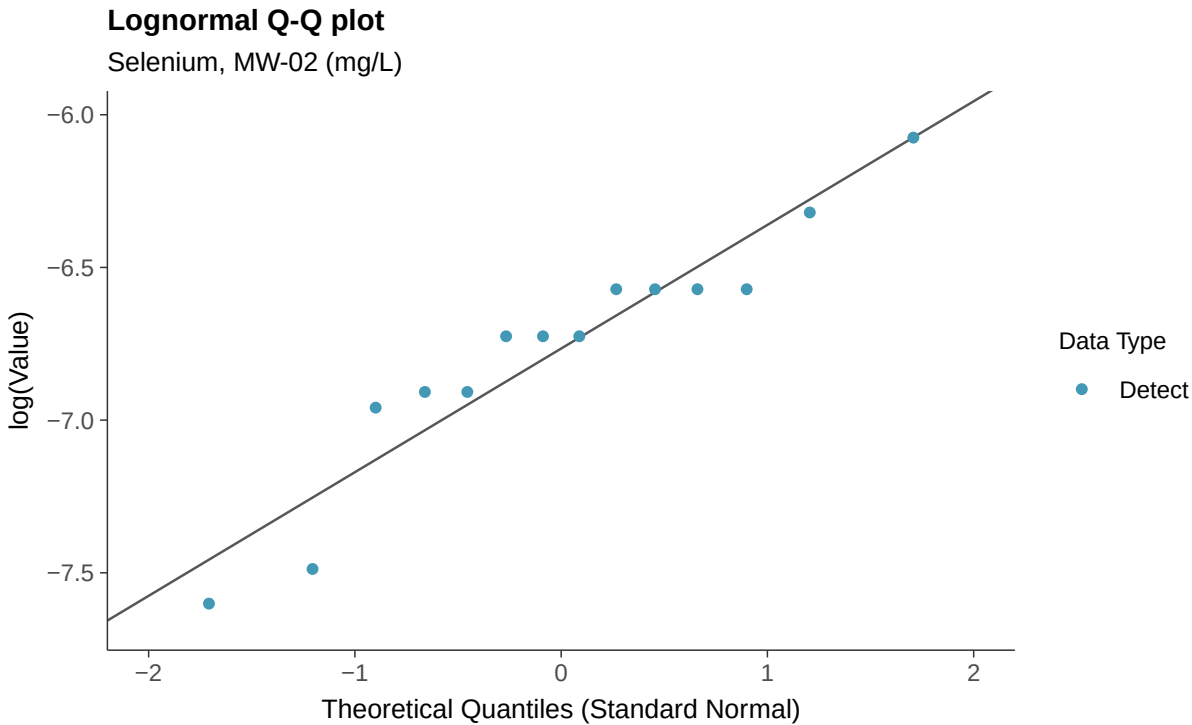
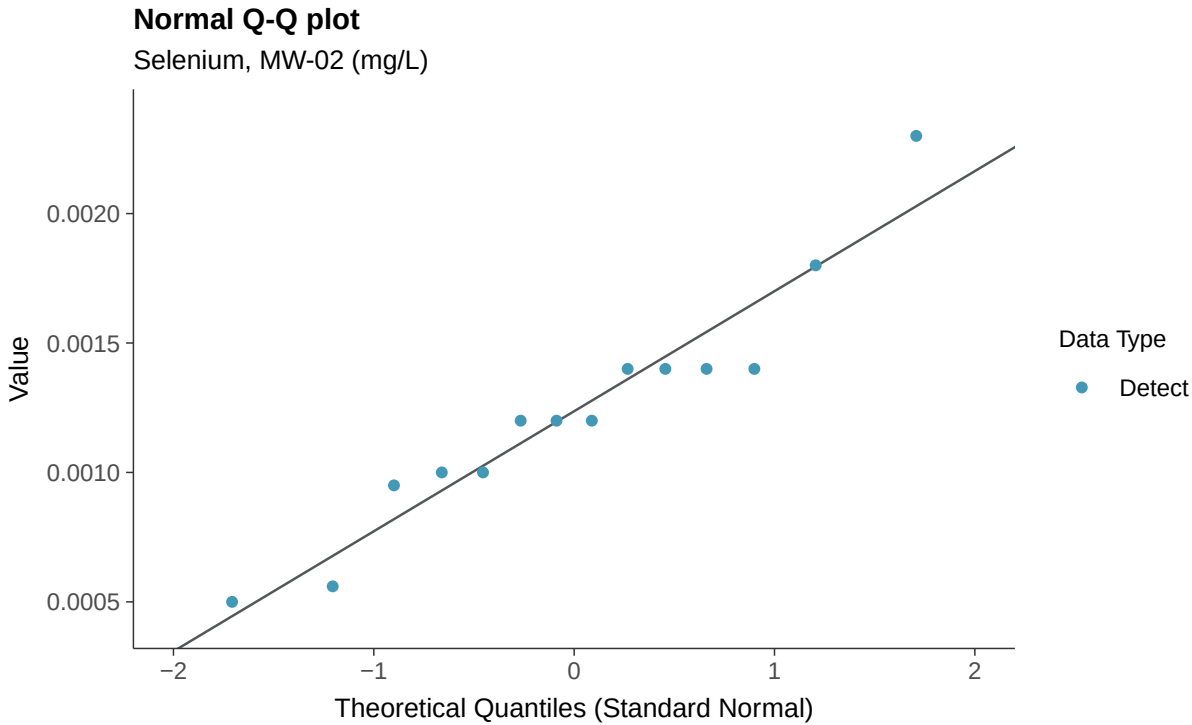


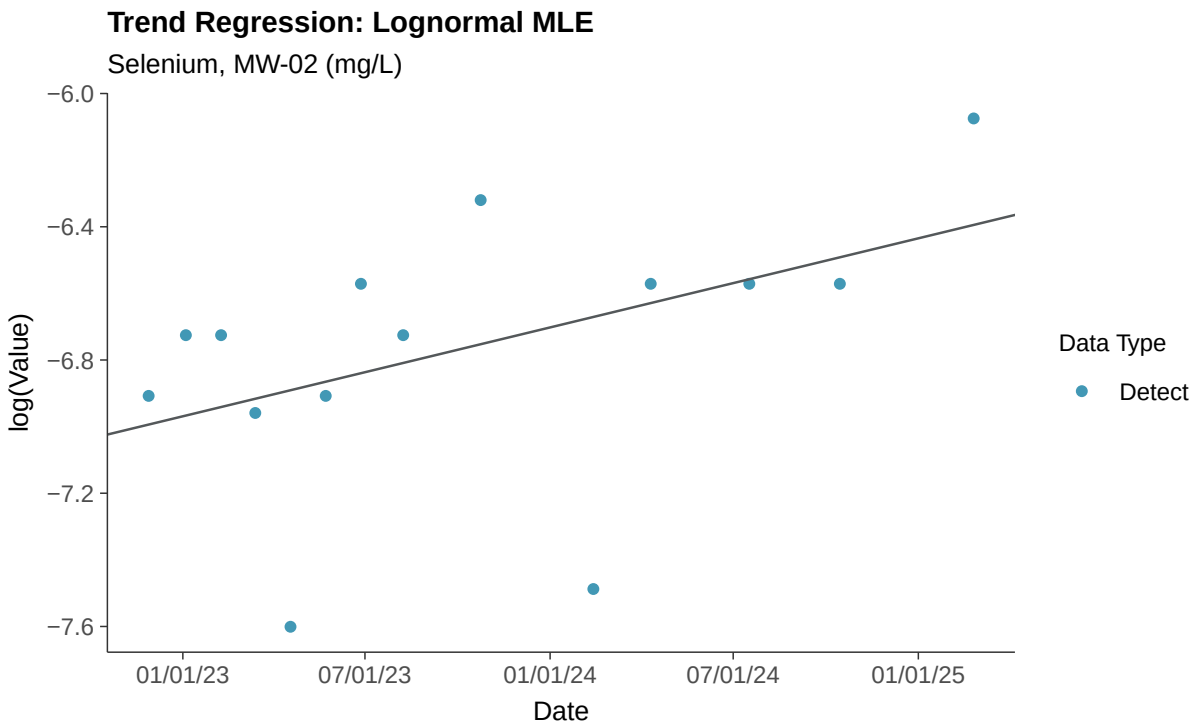
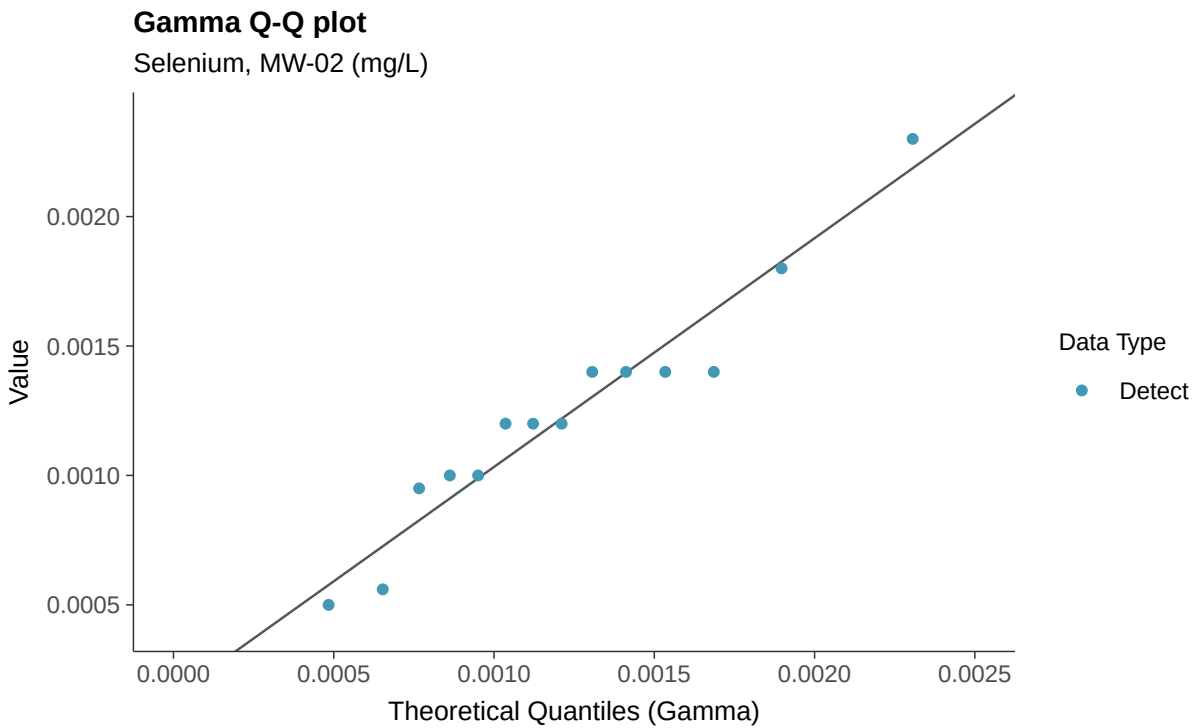
Appendix IV: Selenium, MW-02

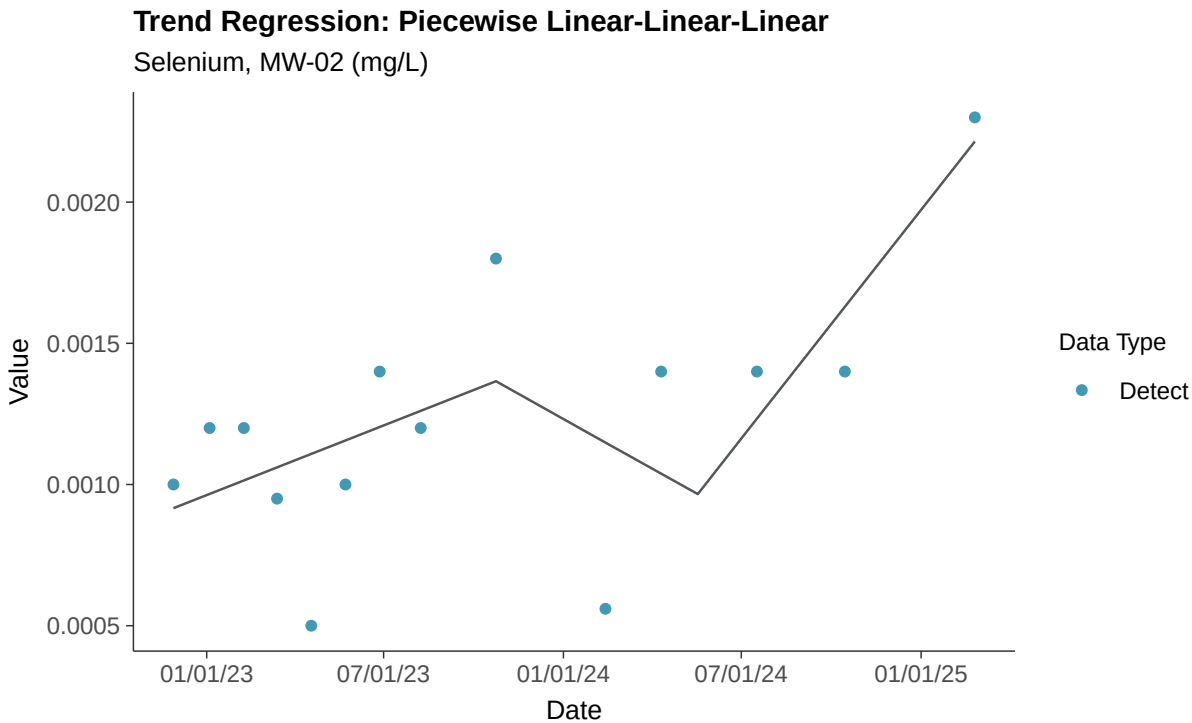
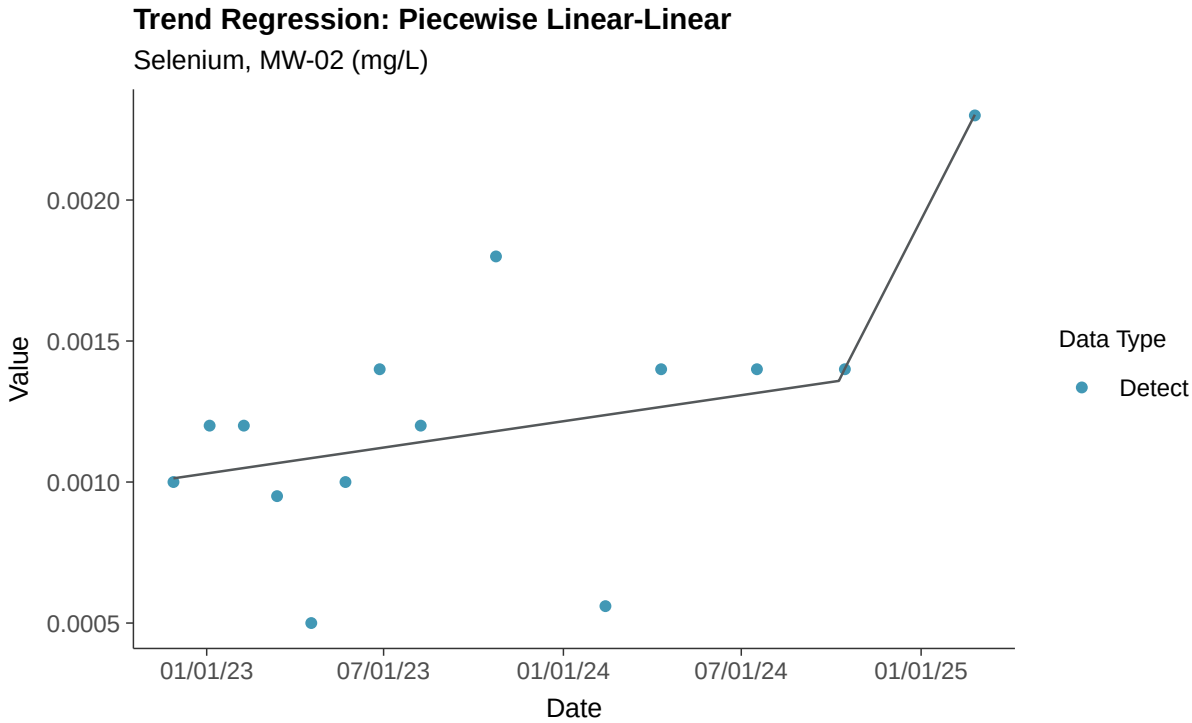
ID: 12_2_4_122







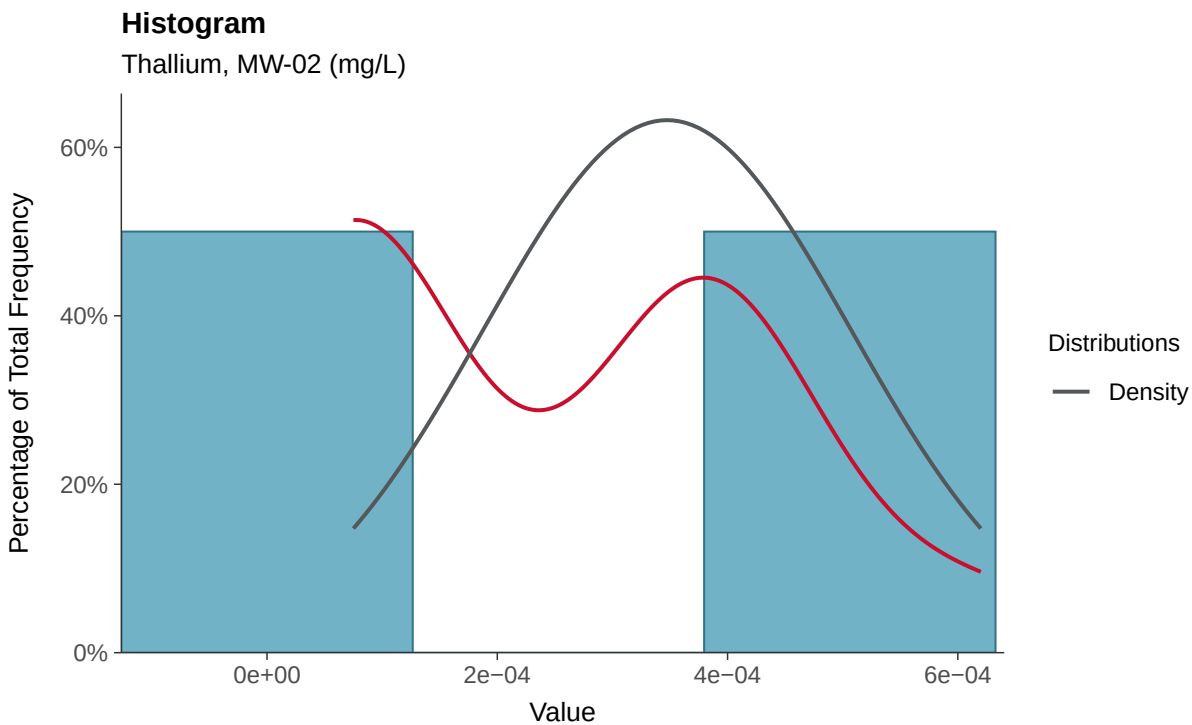
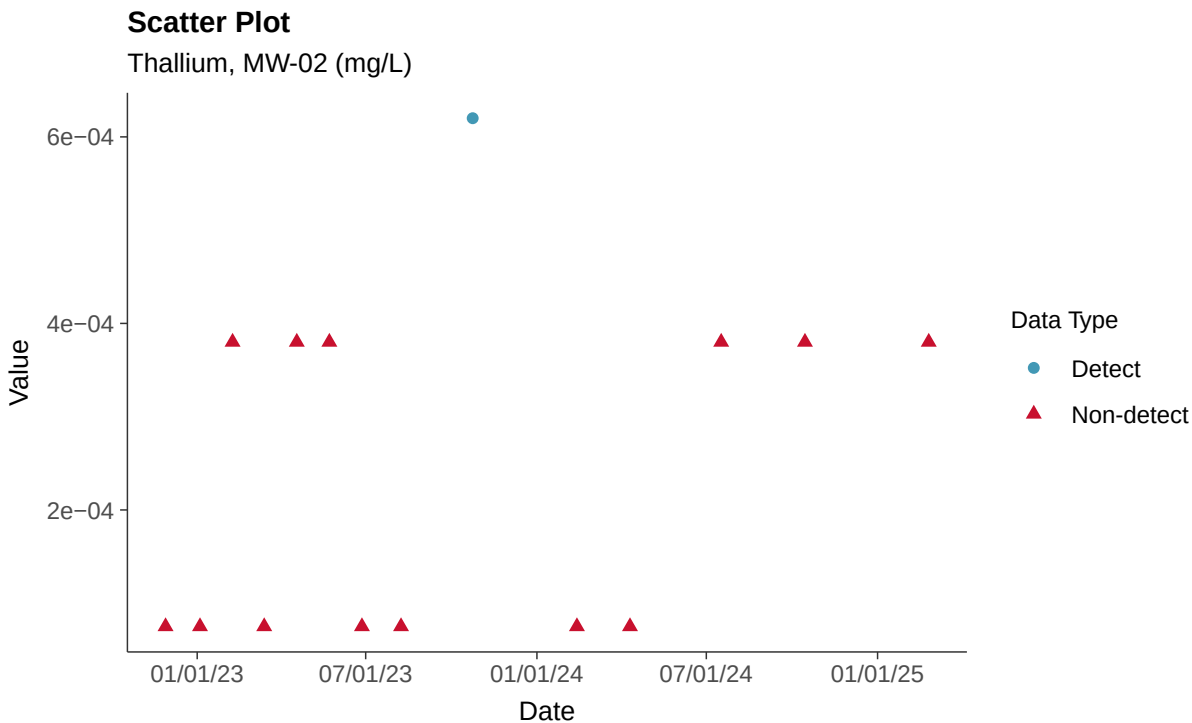


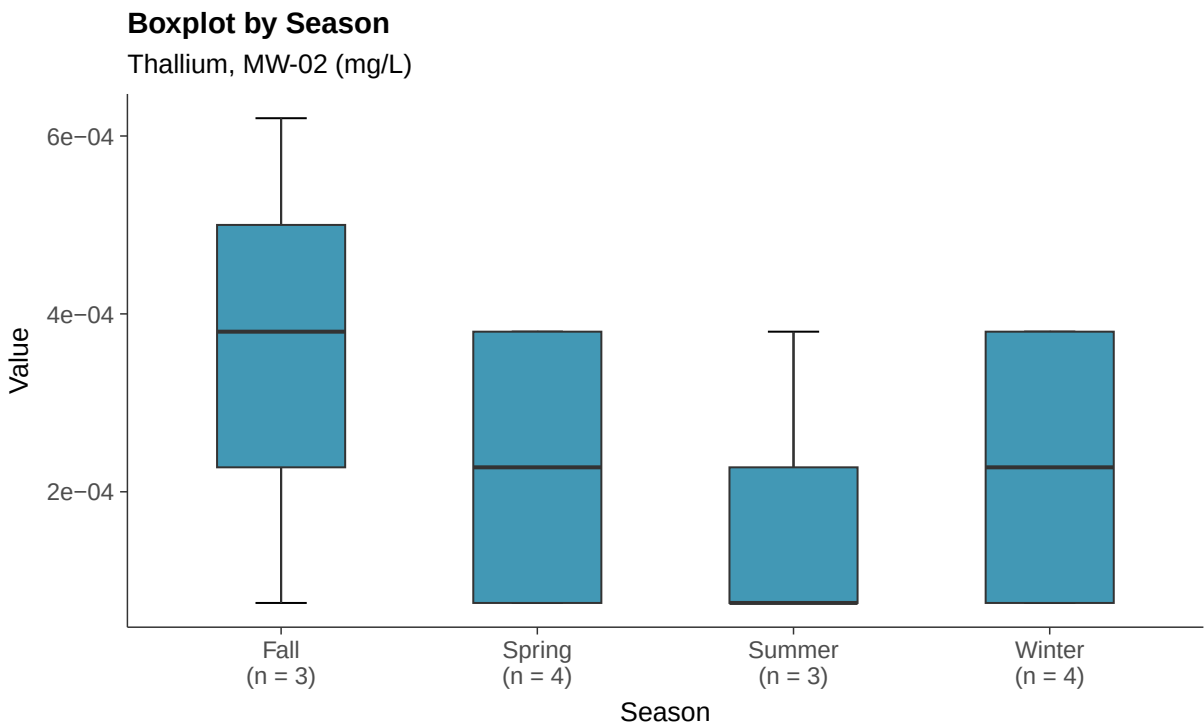
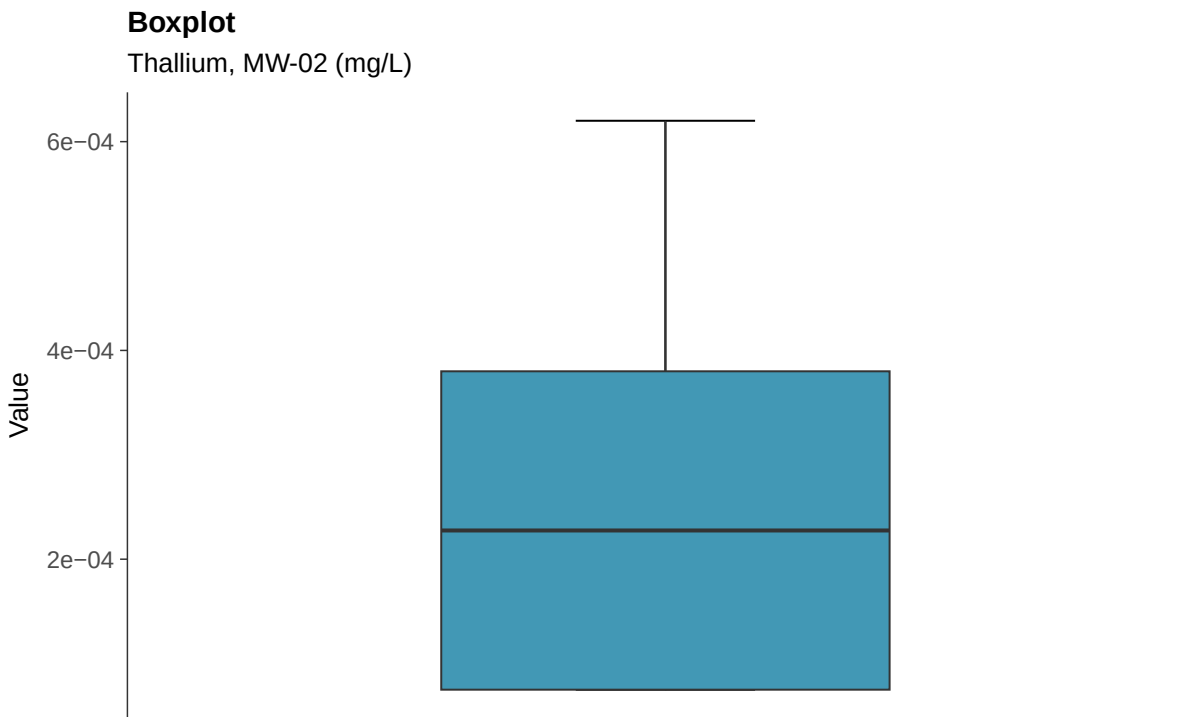


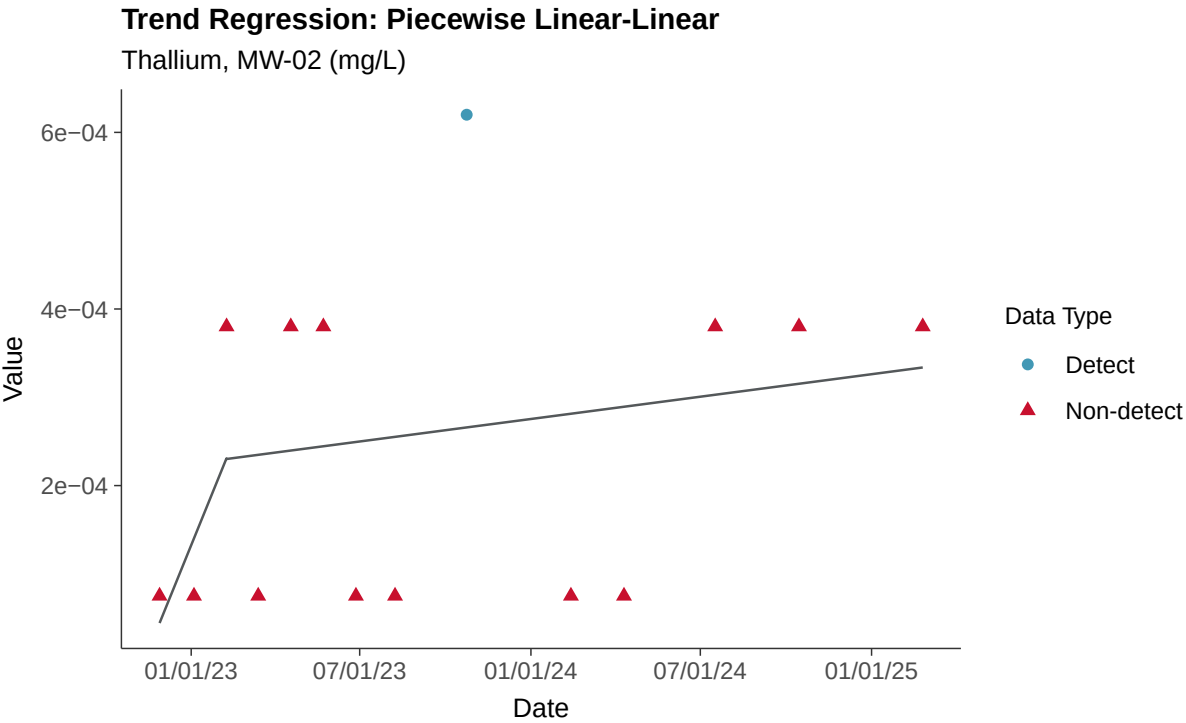


Appendix IV: Thallium, MW-02

ID: 12_2_4_125



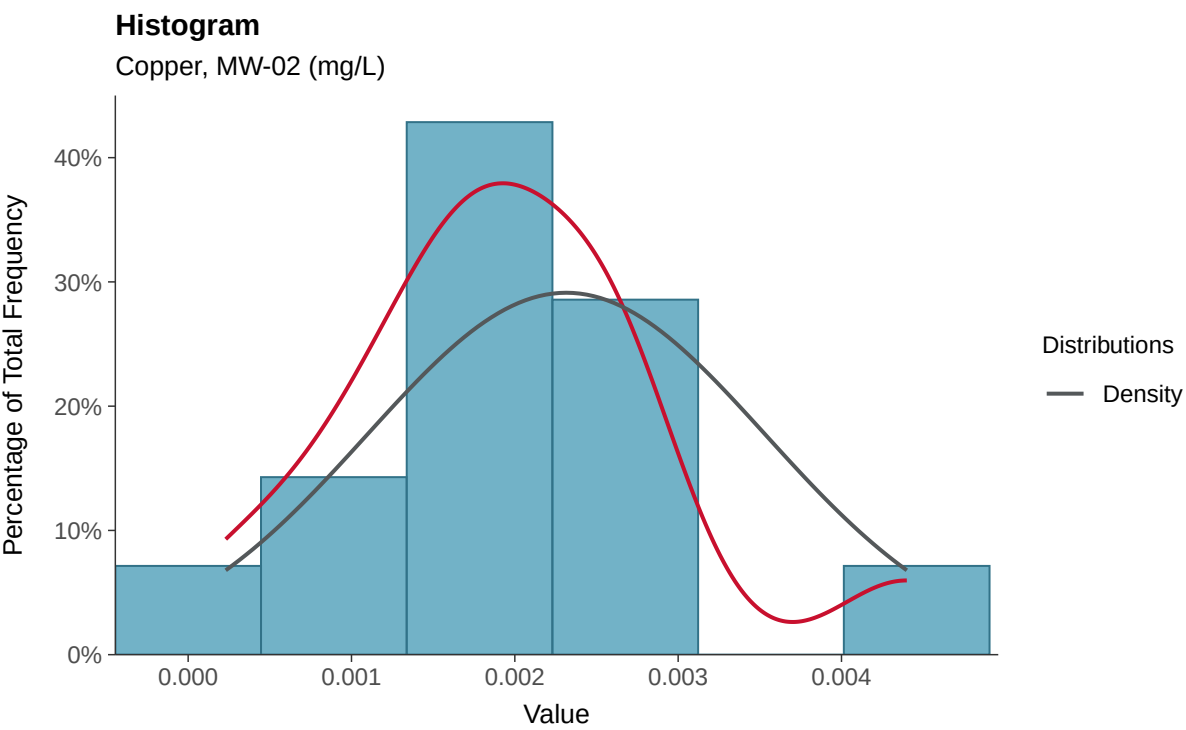
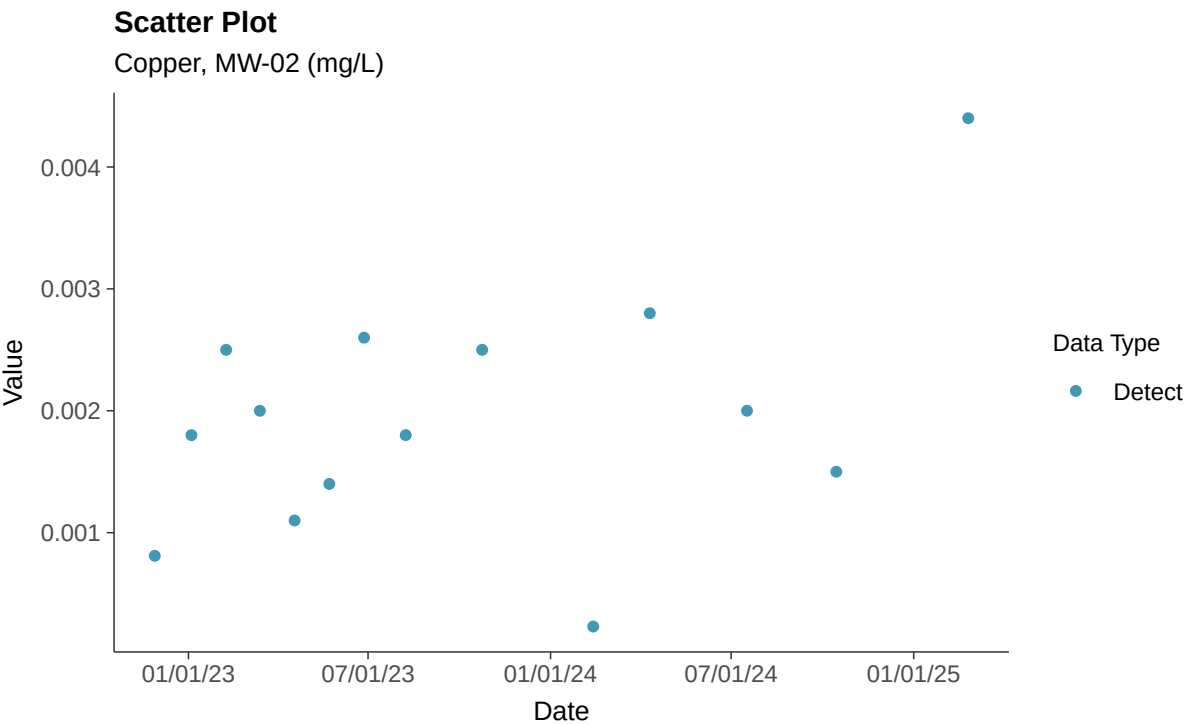


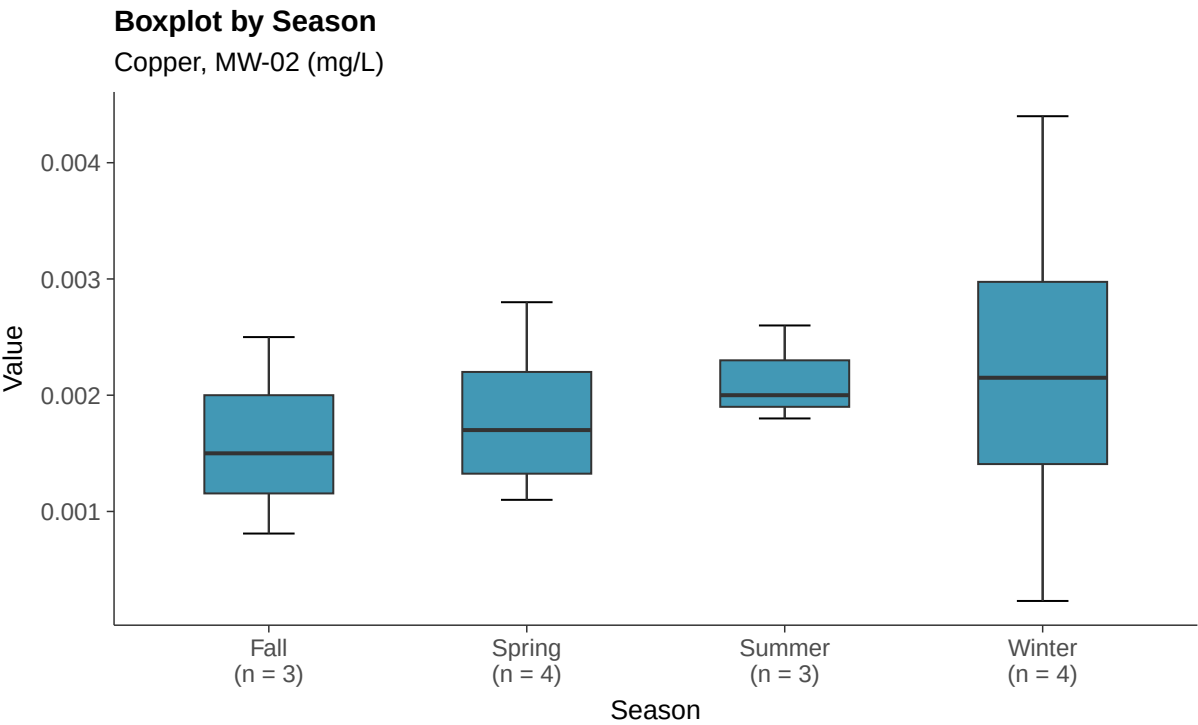
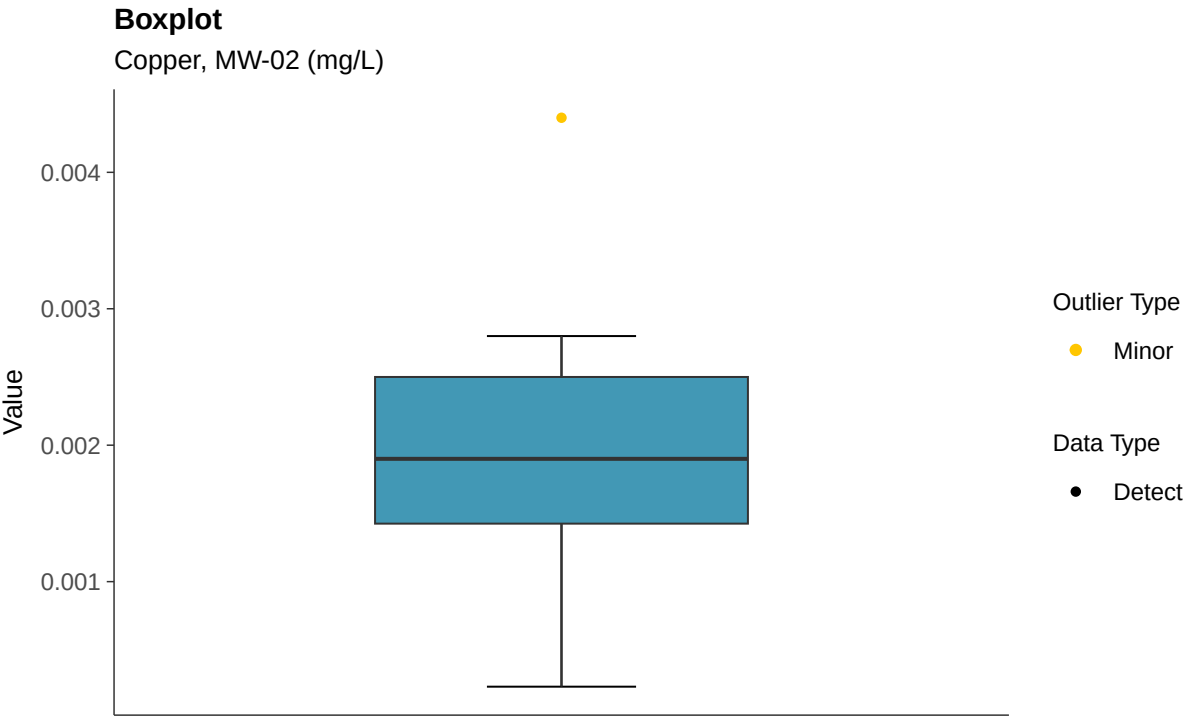


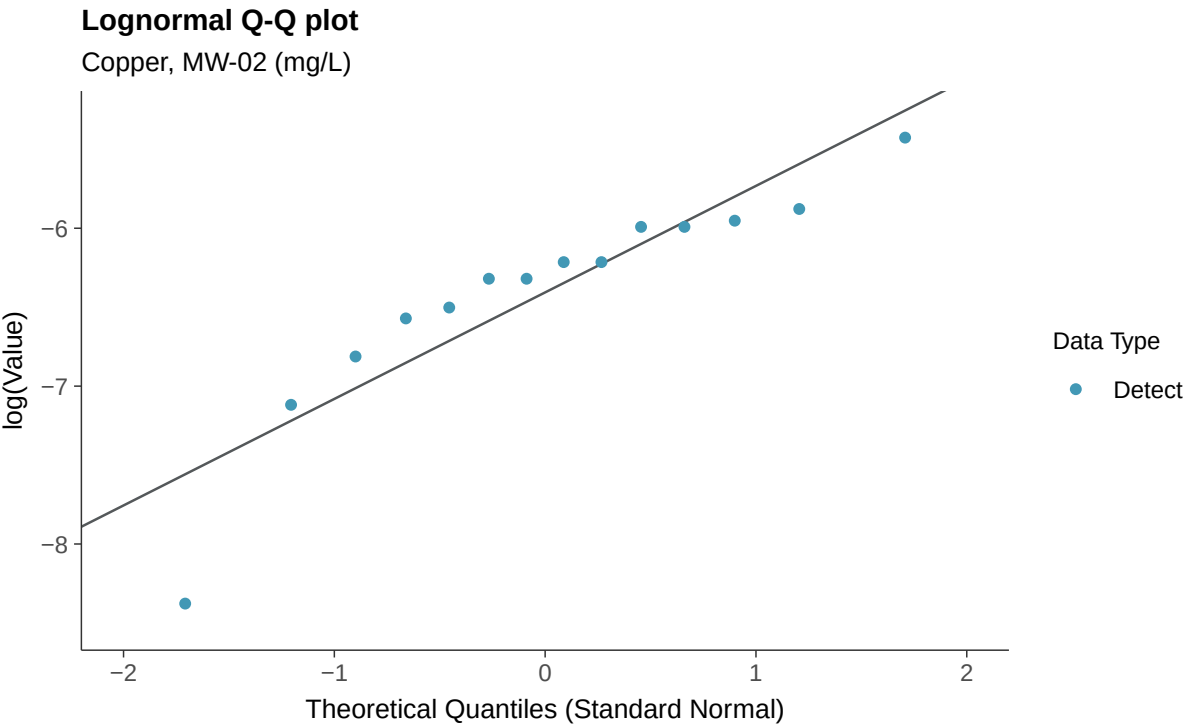
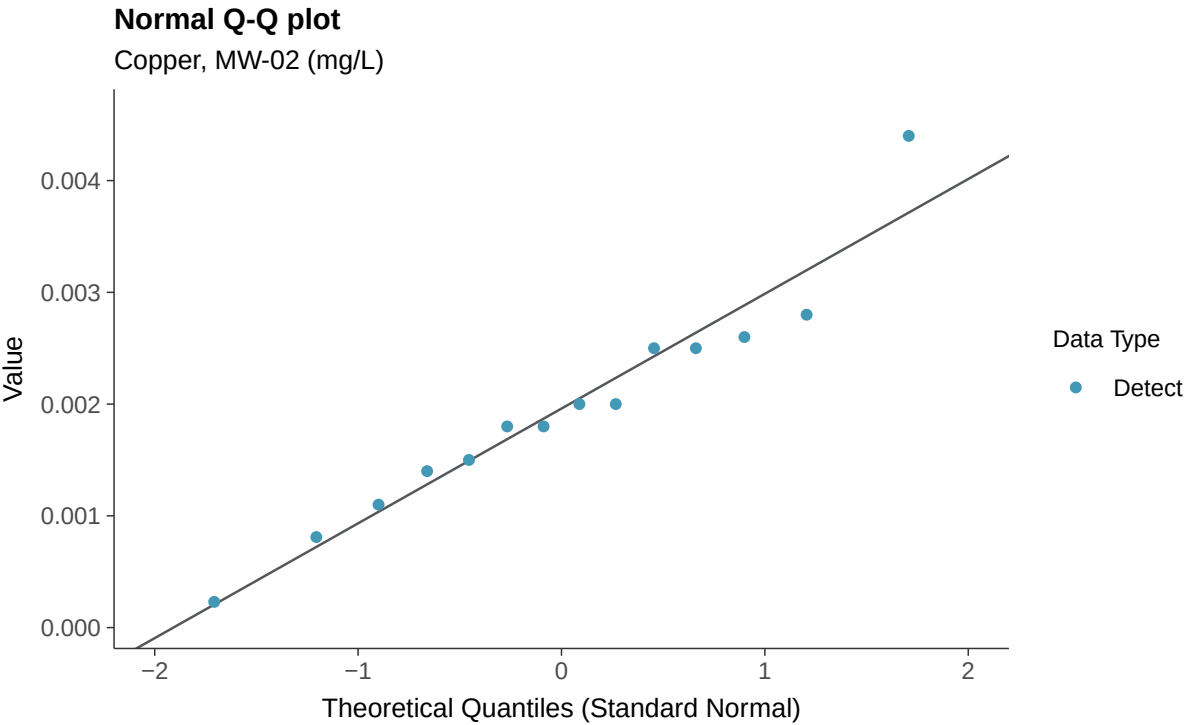


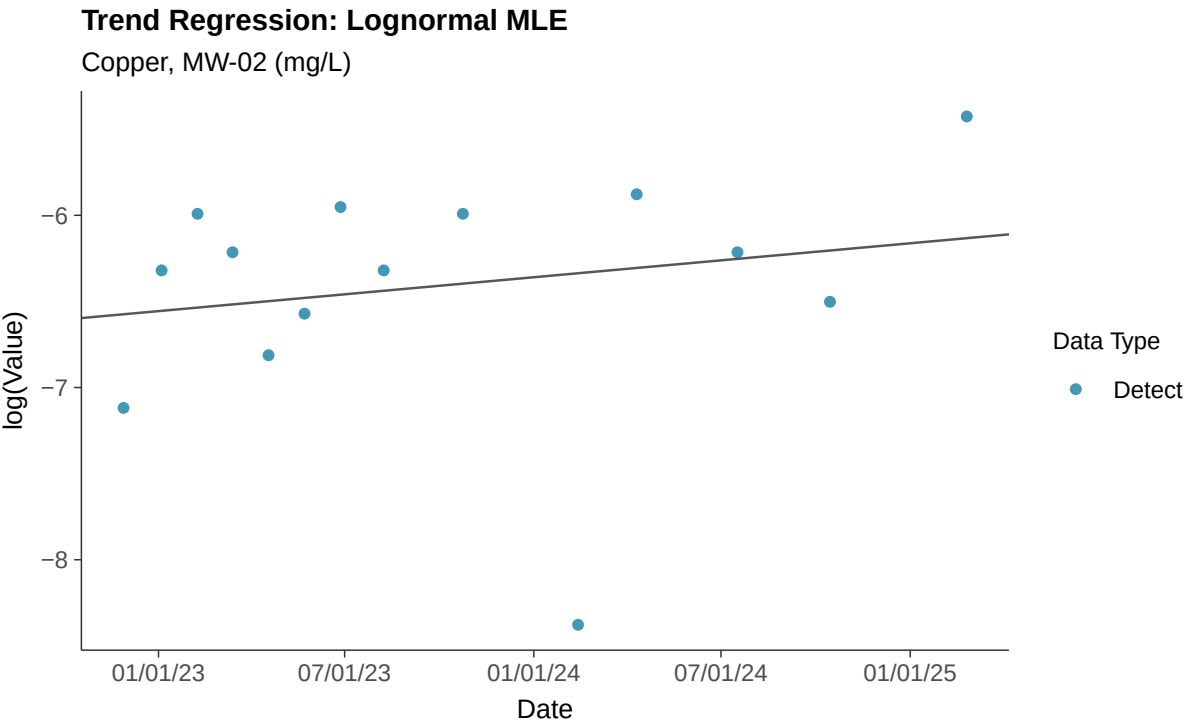
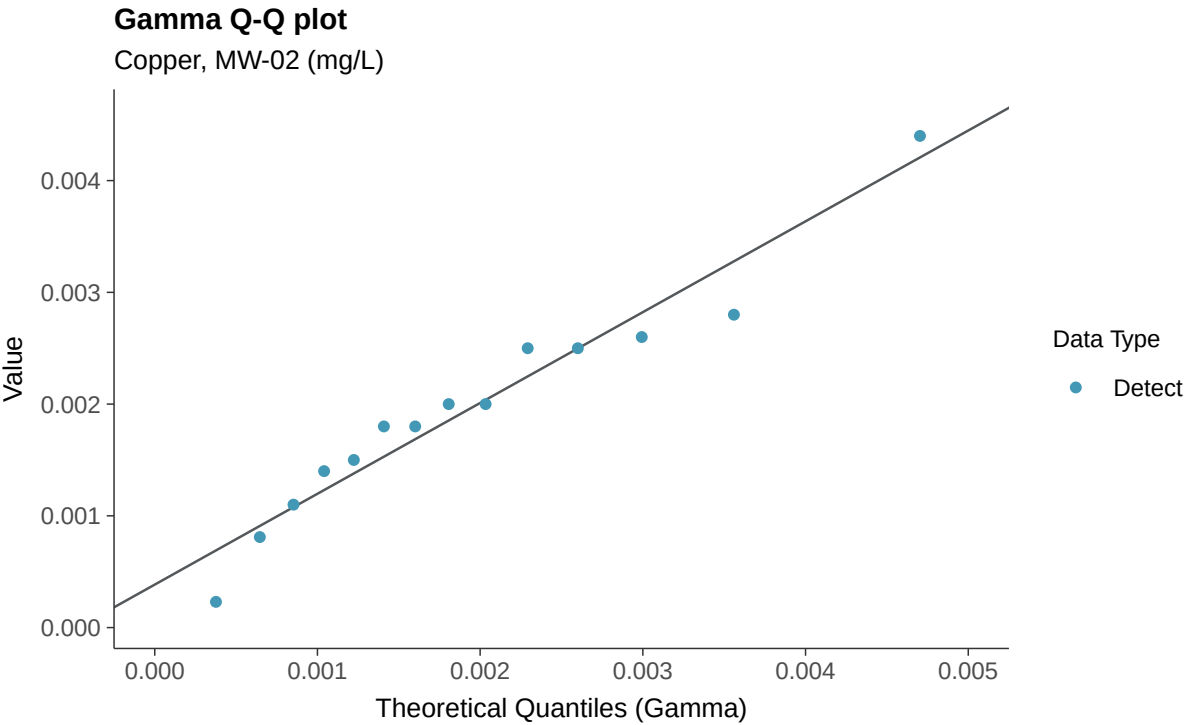
Part 115: Copper, MW-02

ID: 12_2_5_111





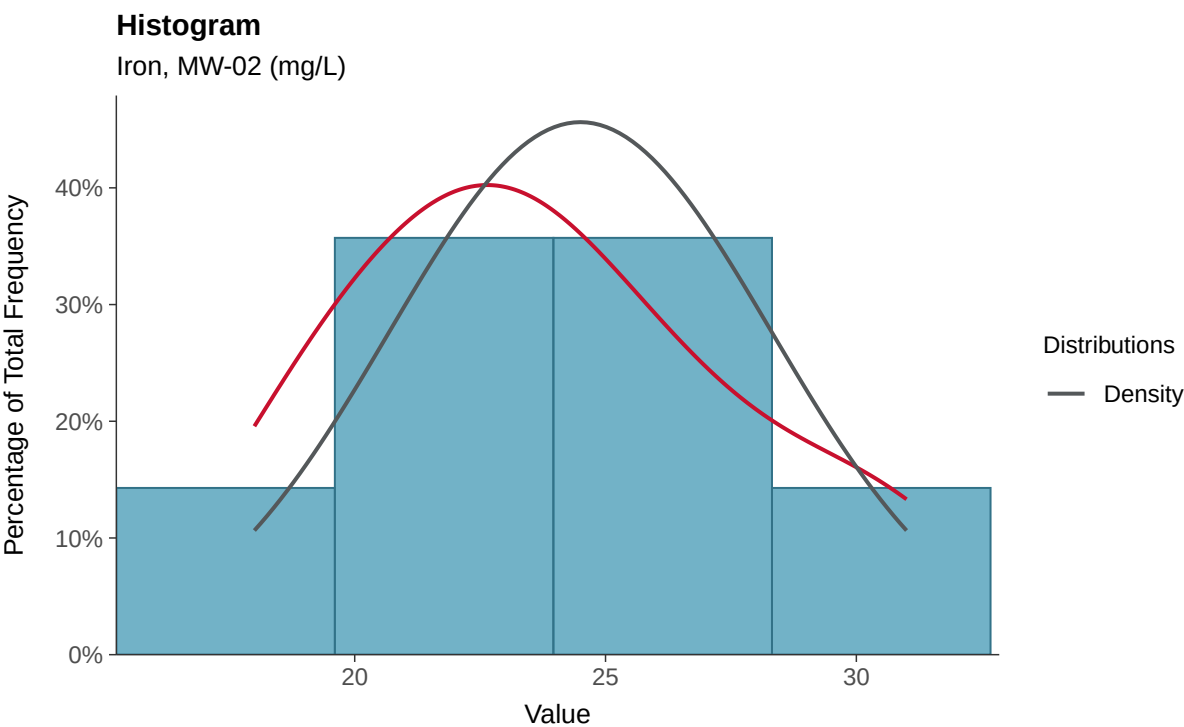
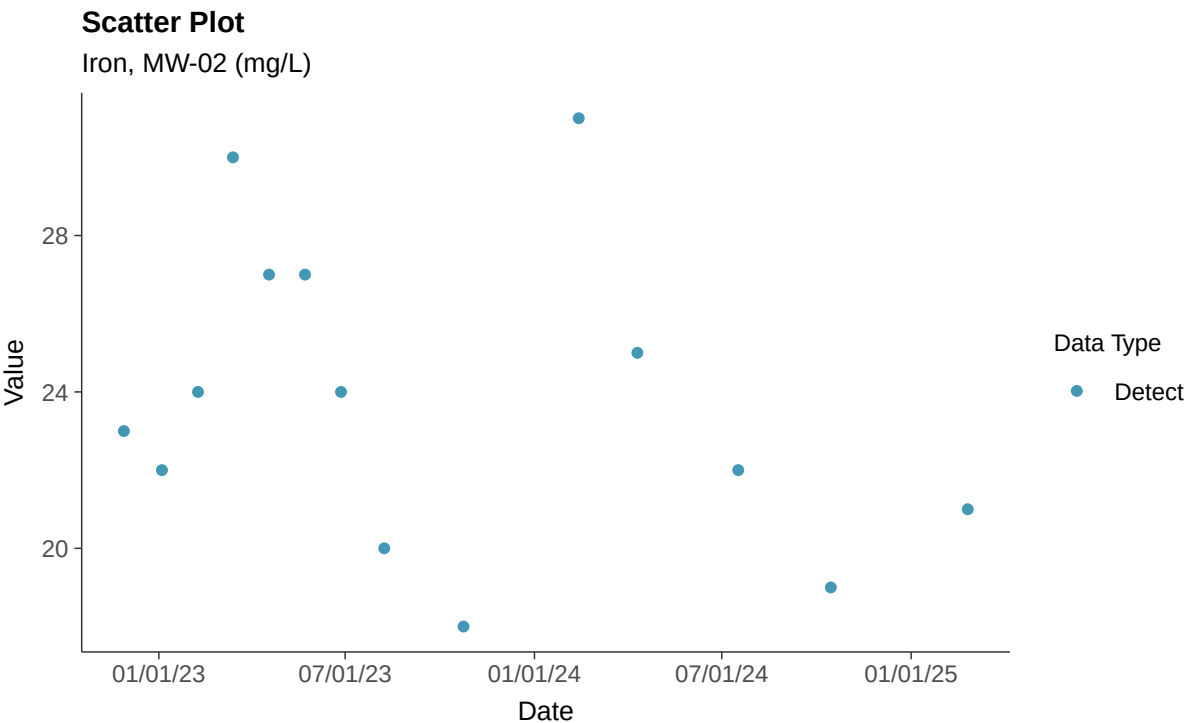


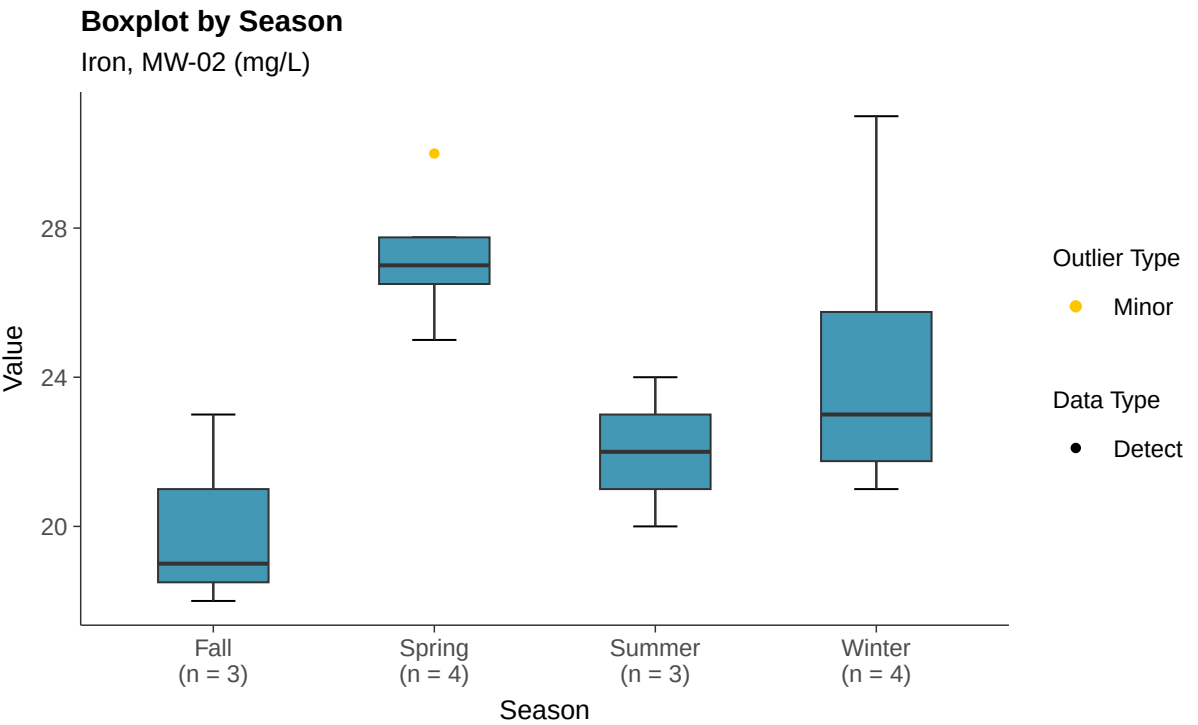
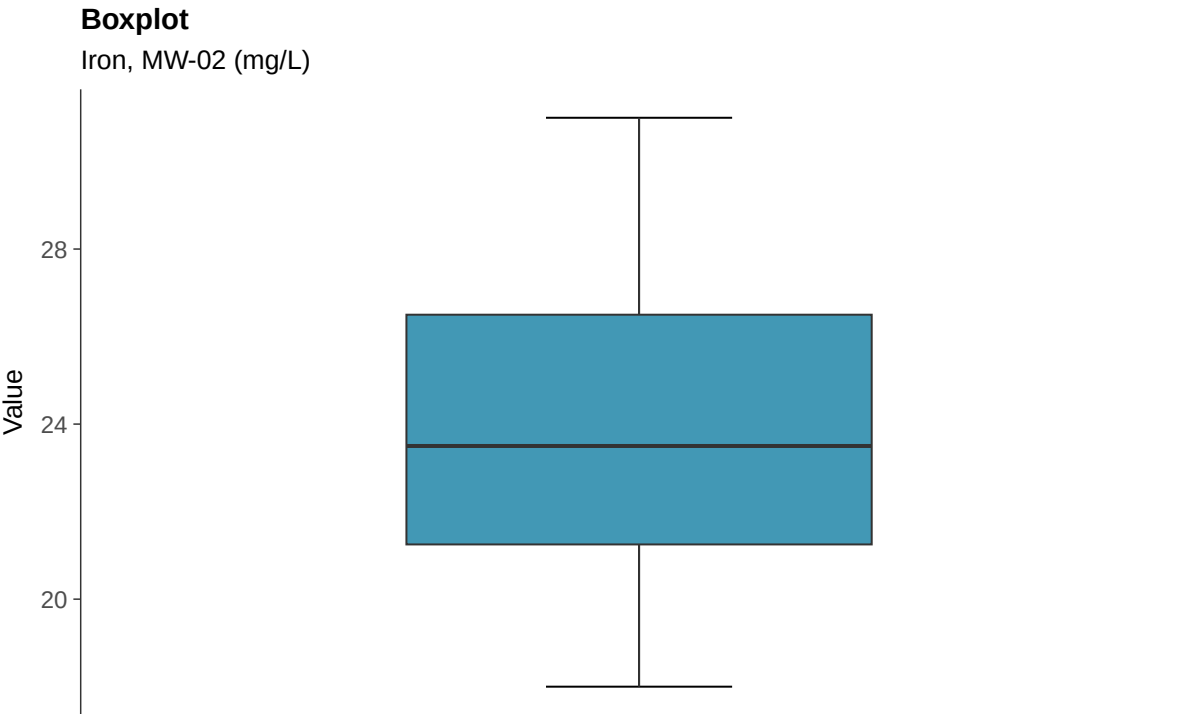


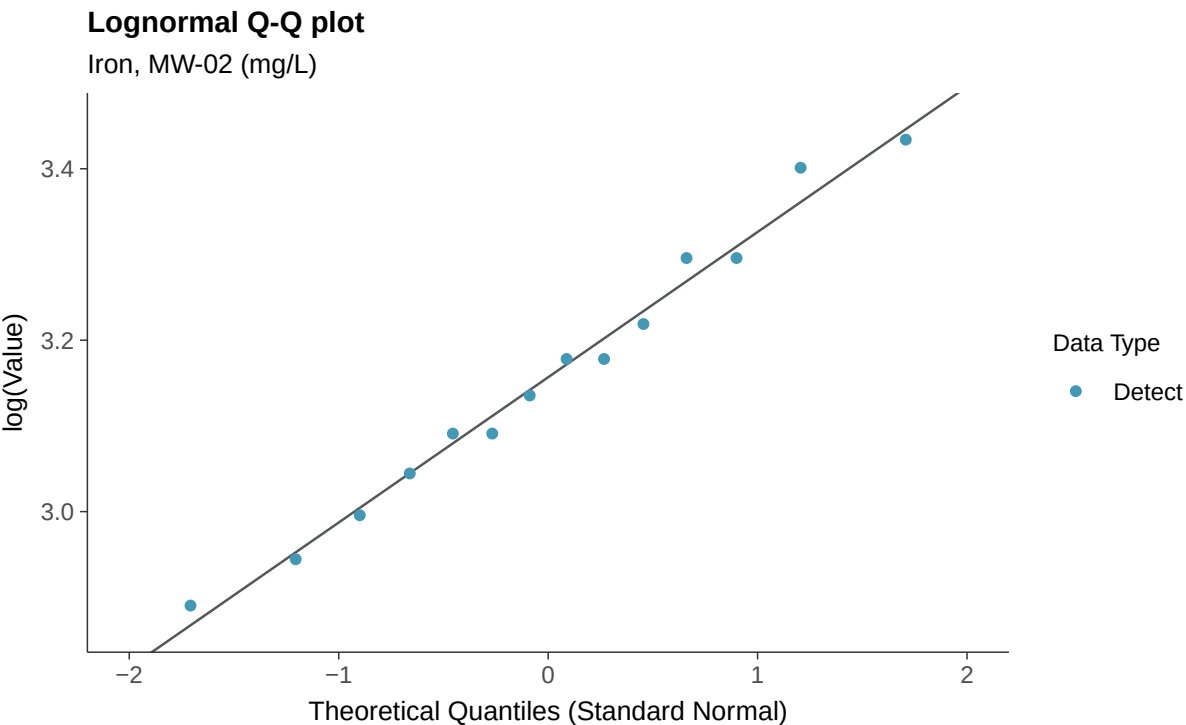
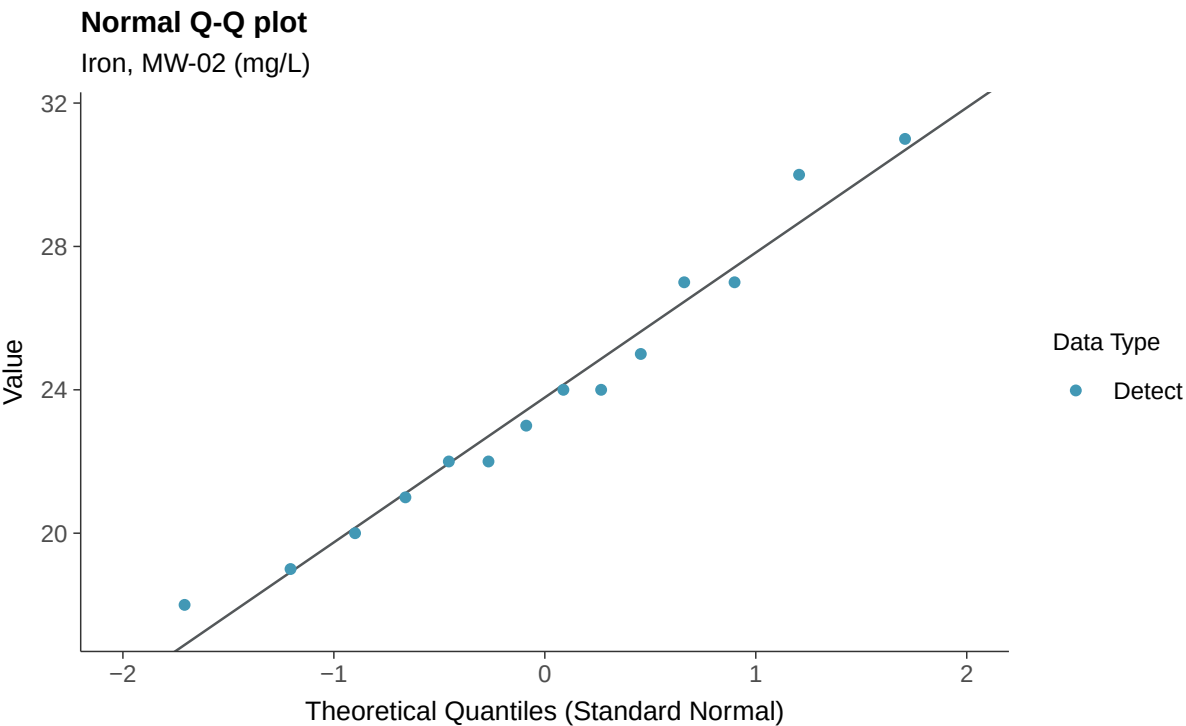


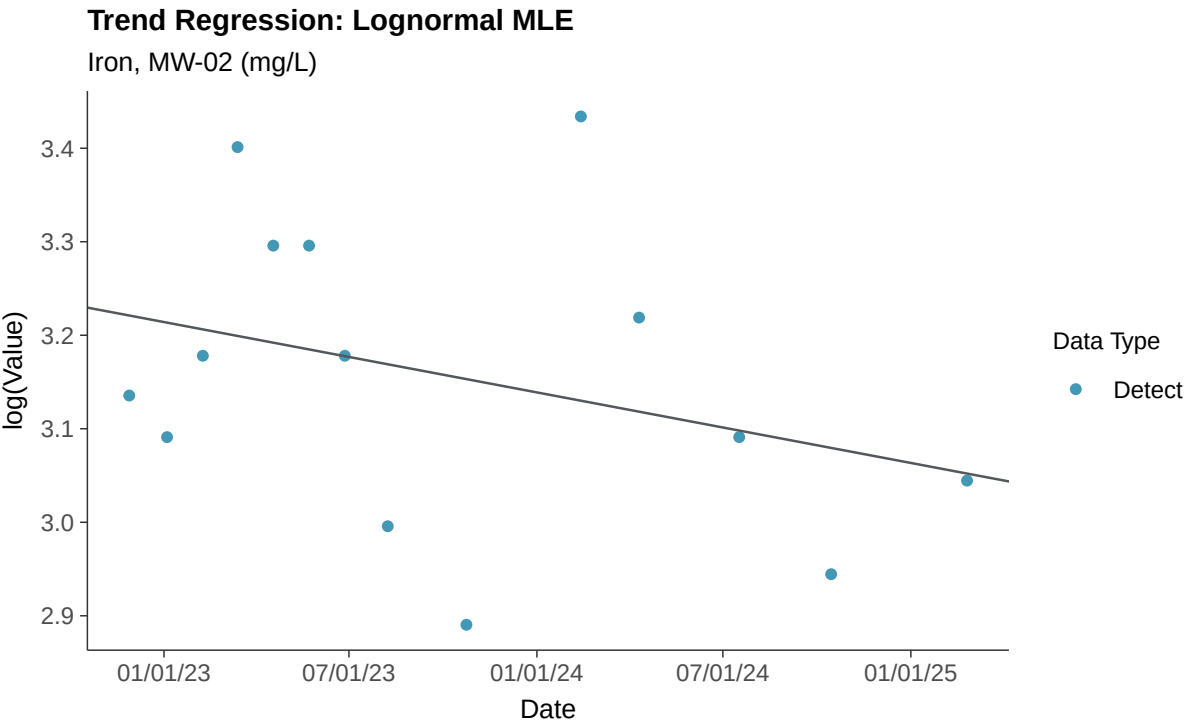
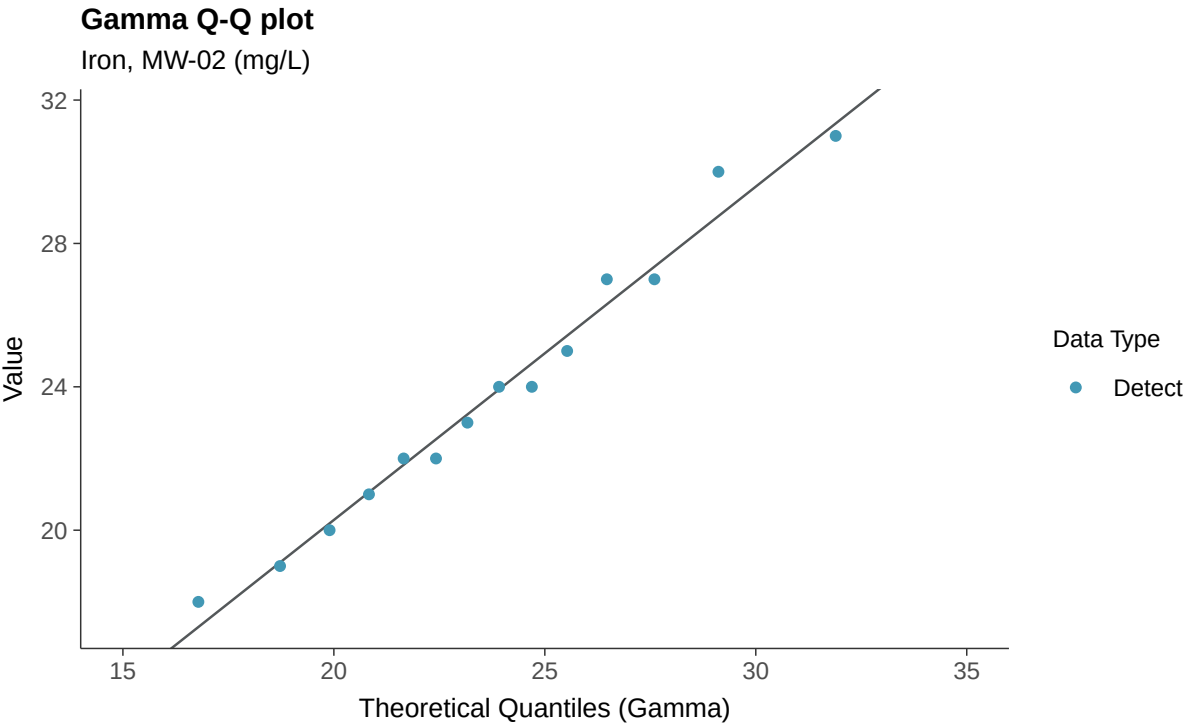
Part 115: Iron, MW-02

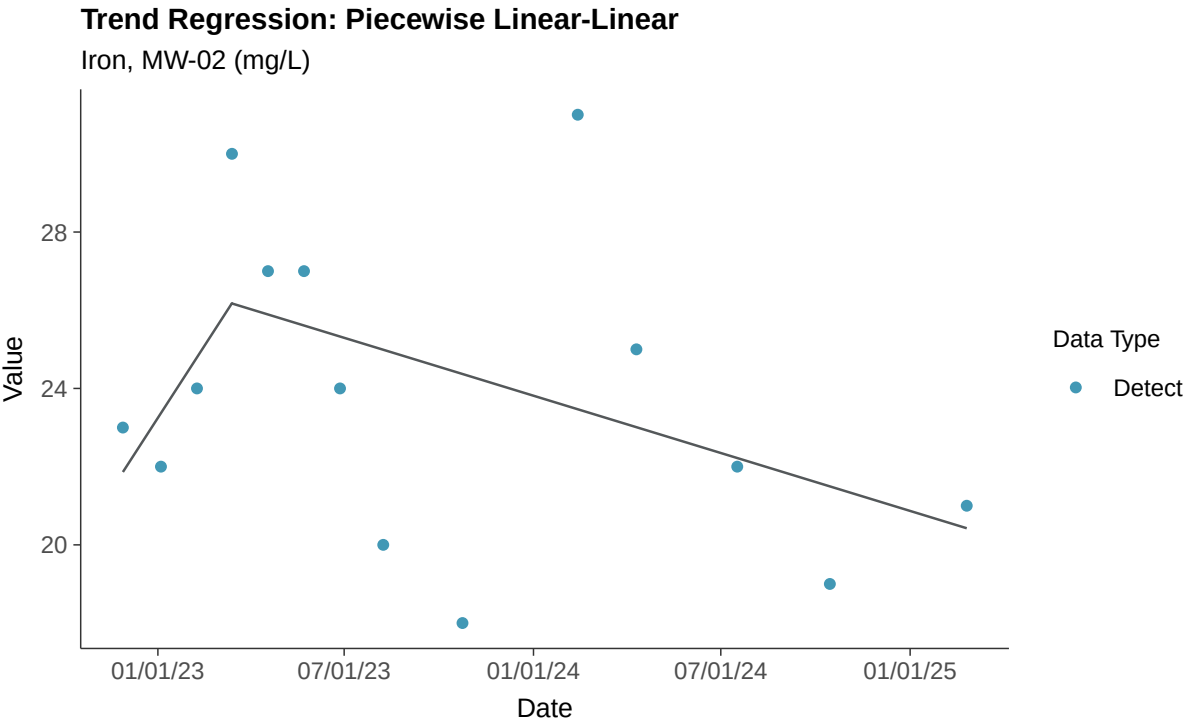
ID: 12_2_5_114







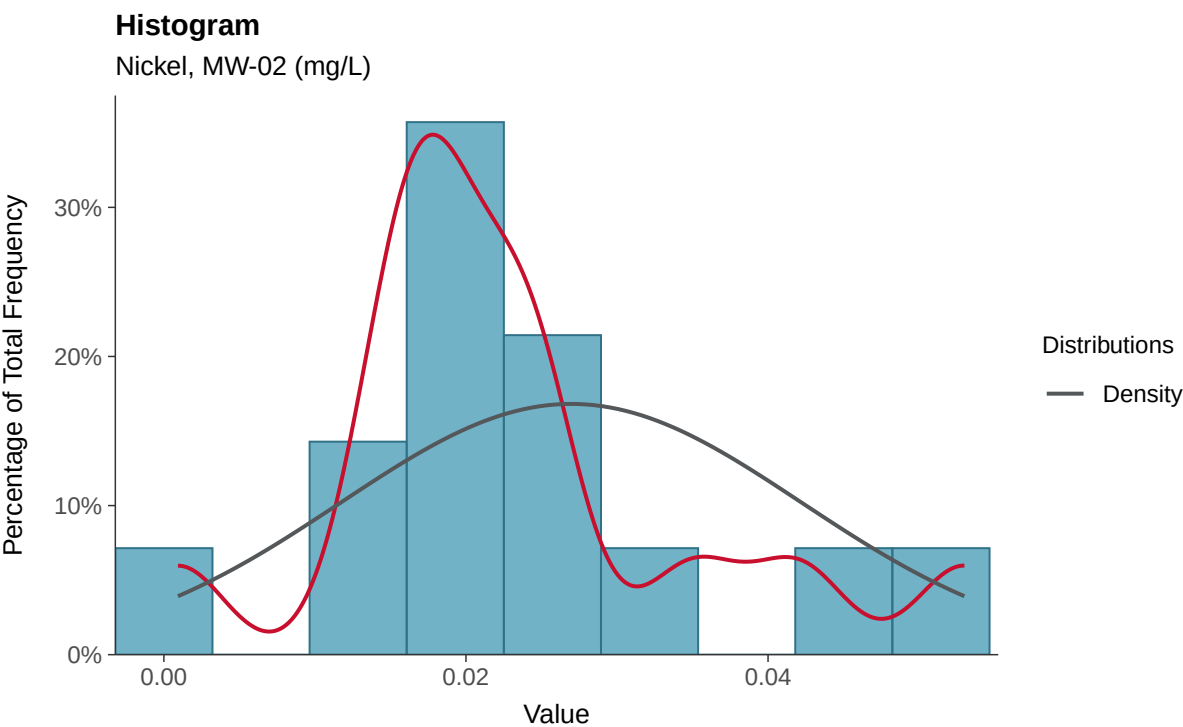
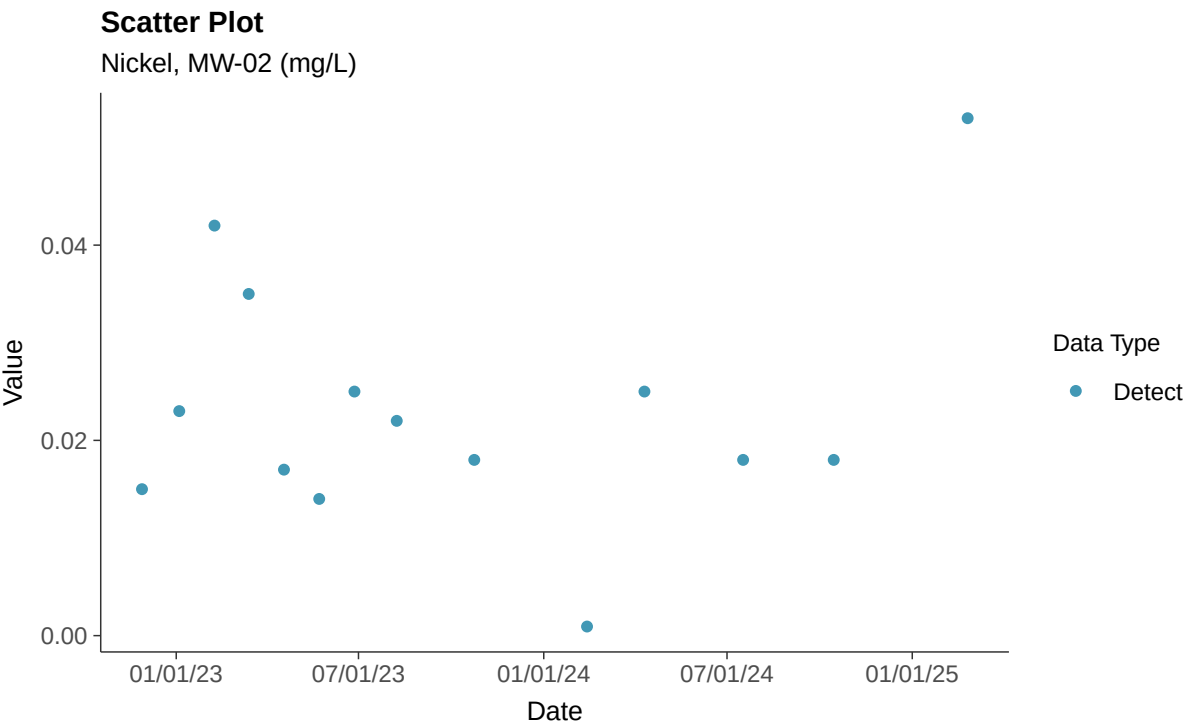


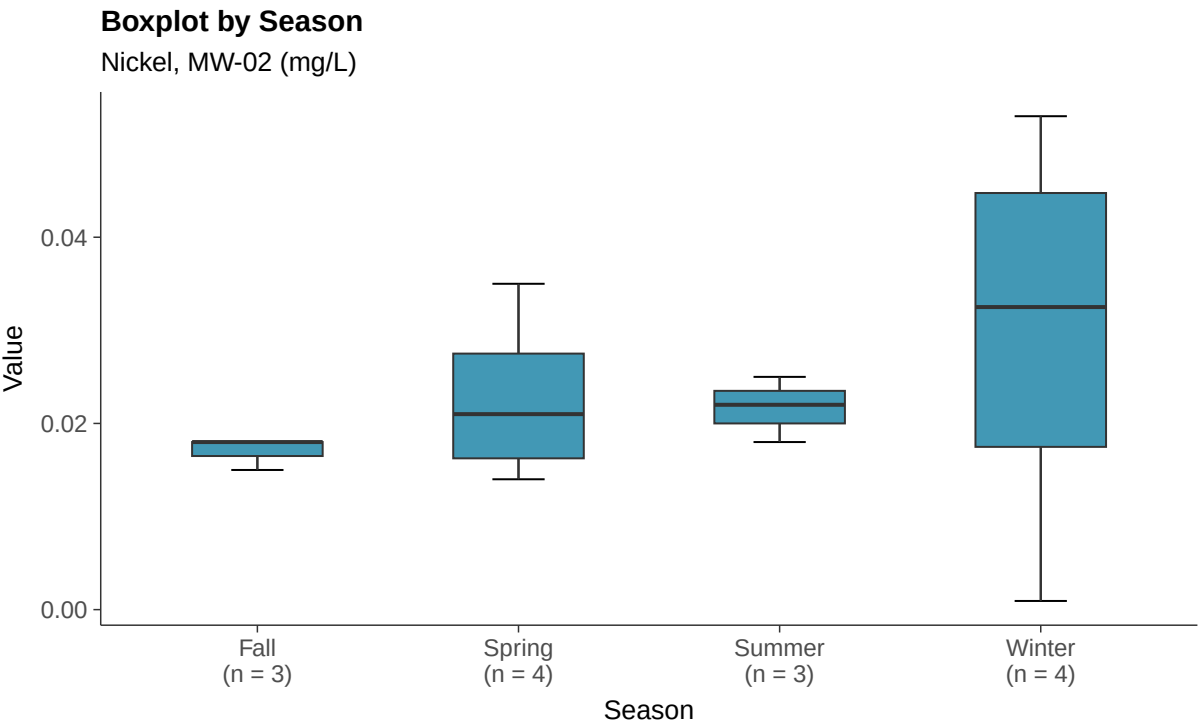
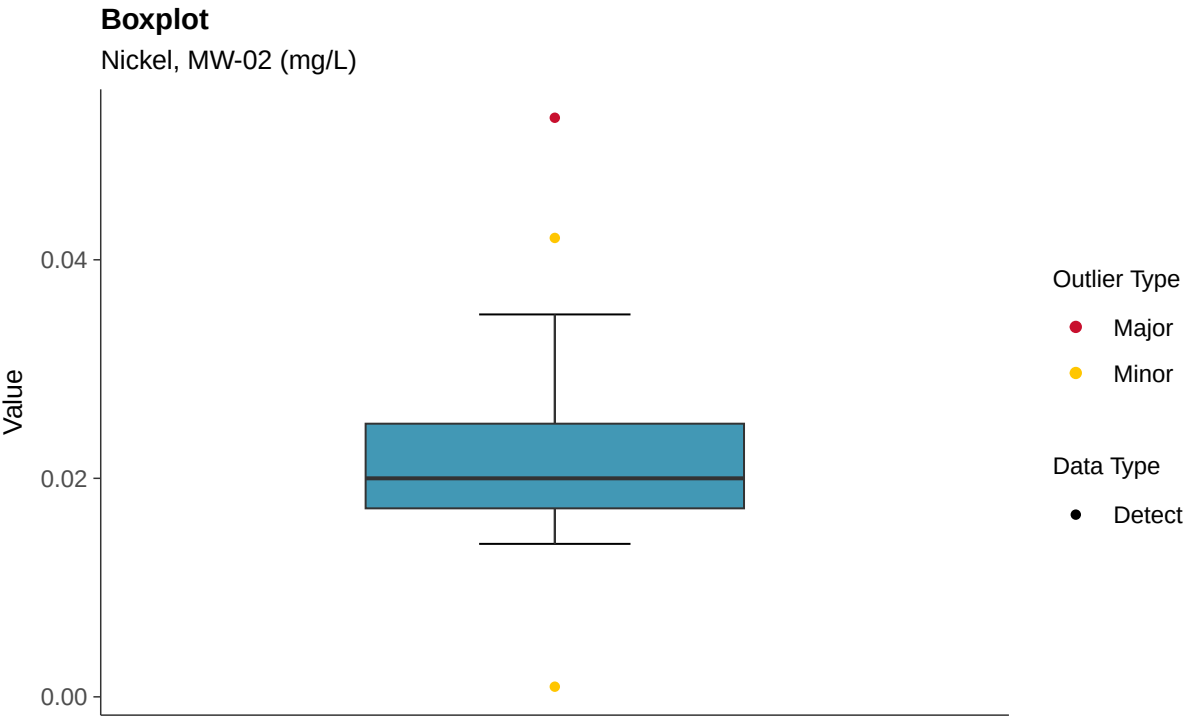


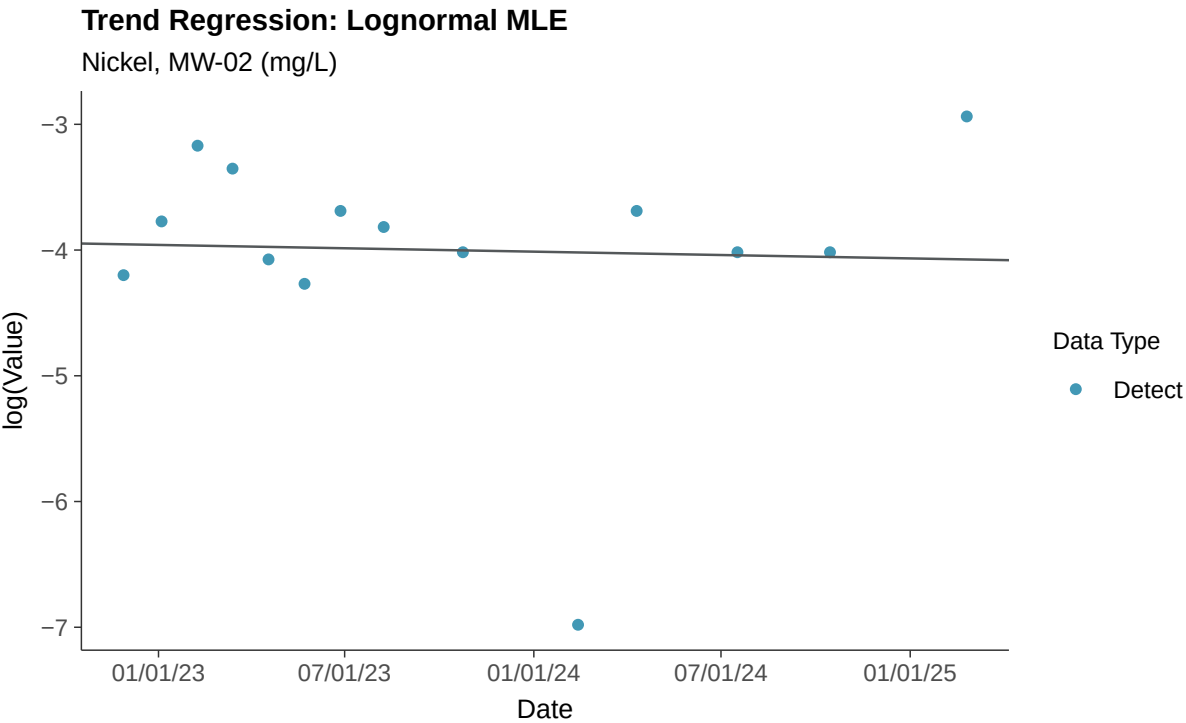
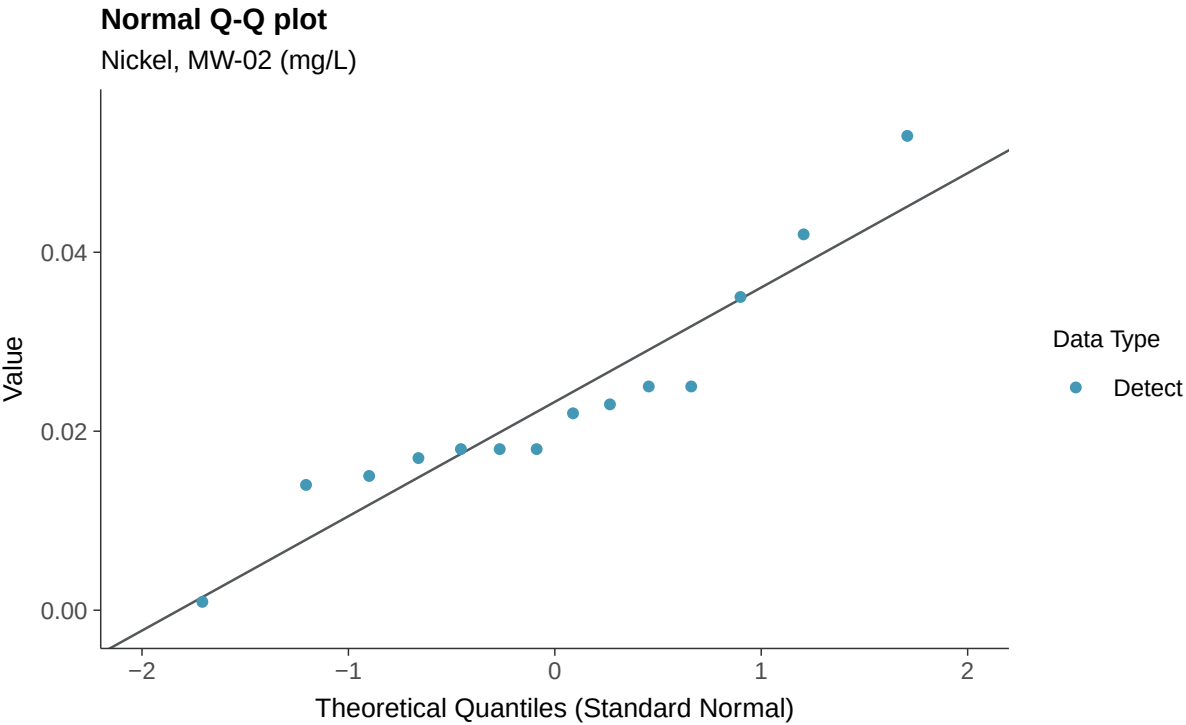


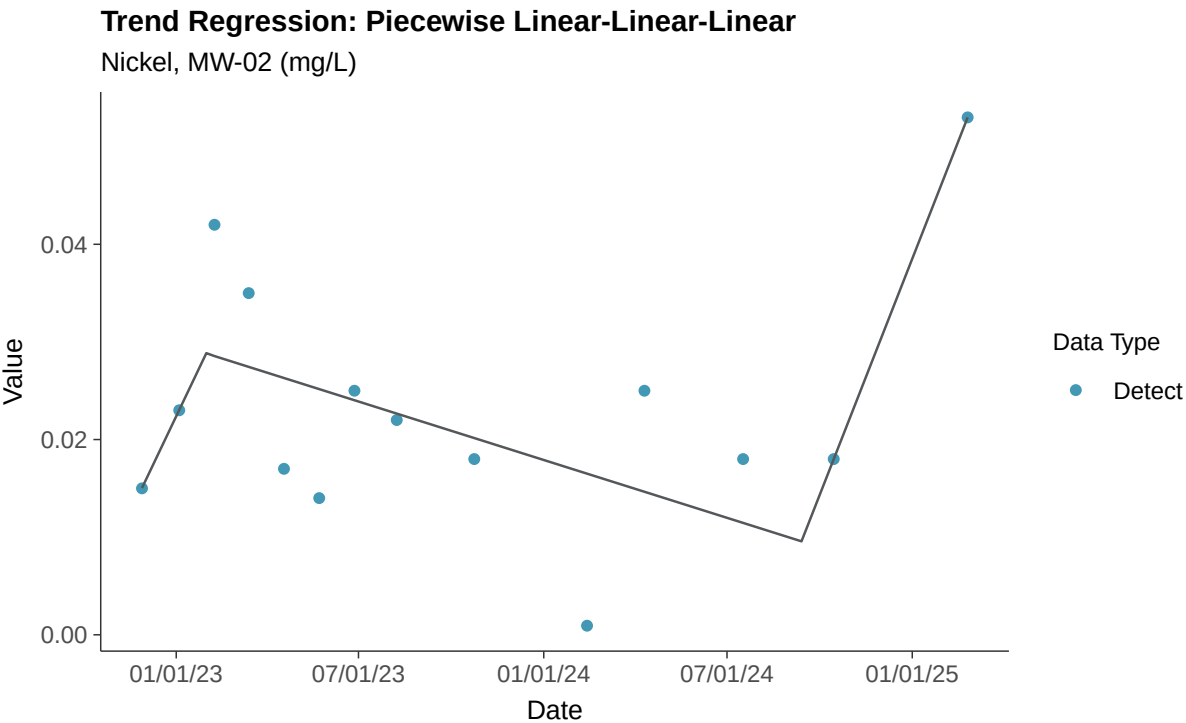
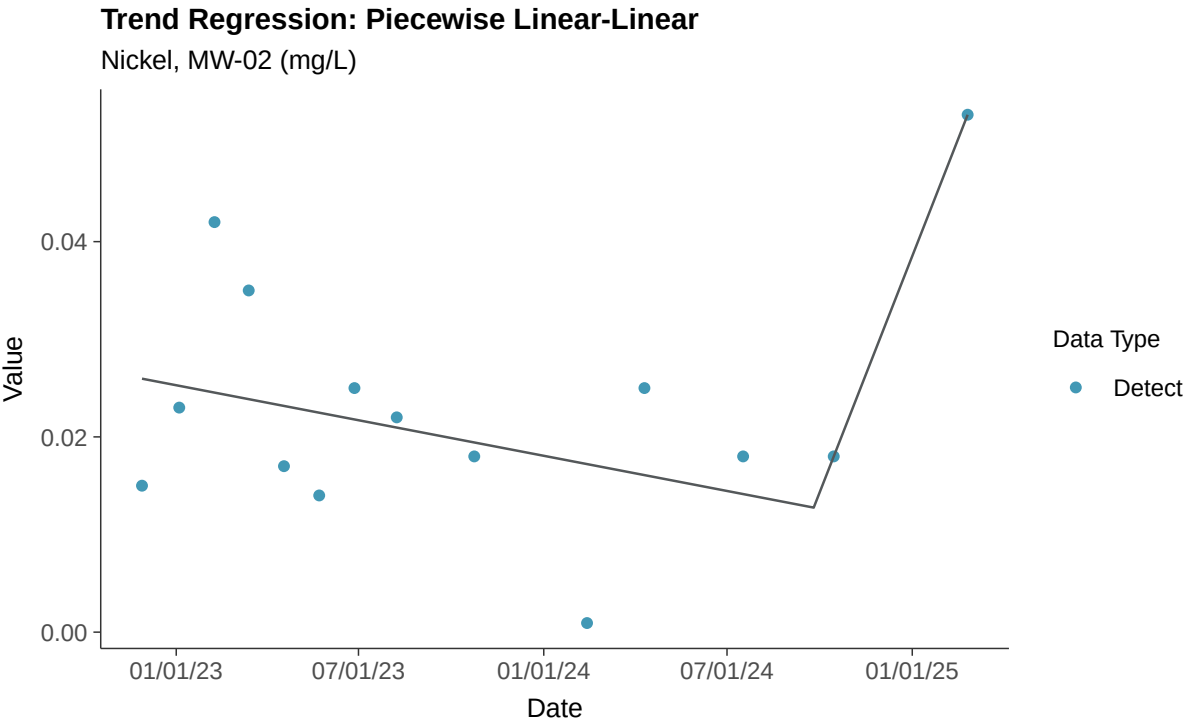
Part 115: Nickel, MW-02

ID: 12_2_5_119





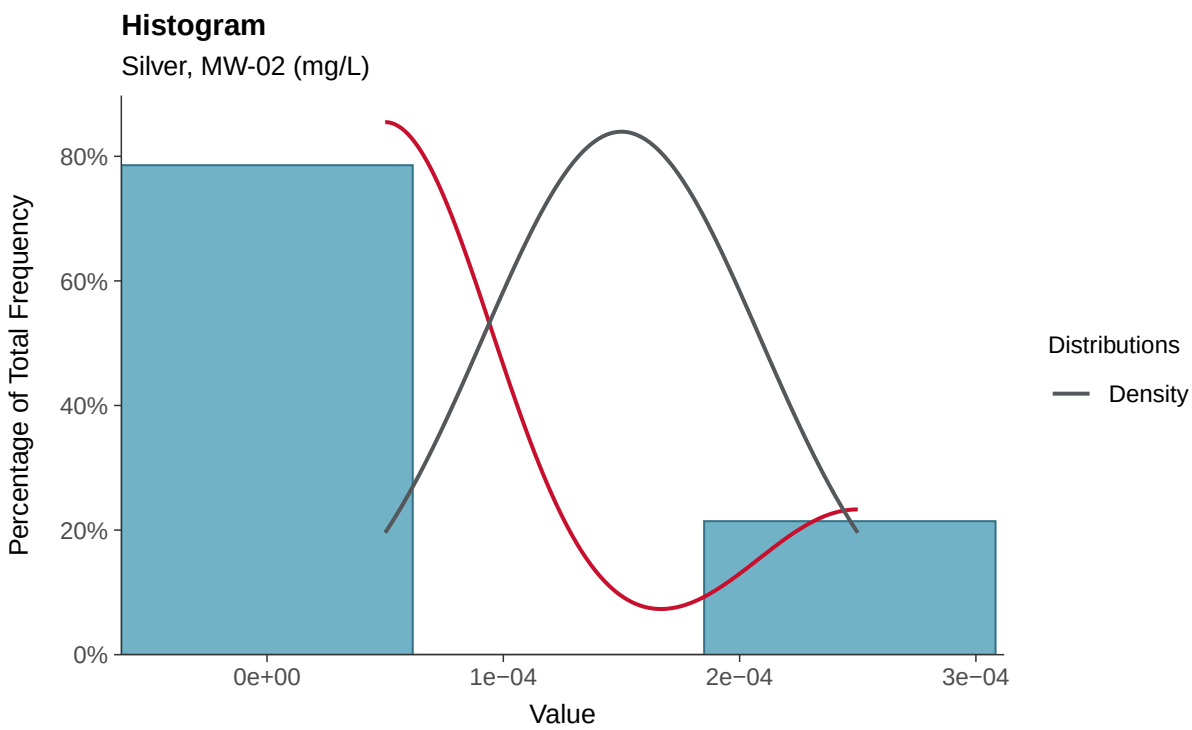
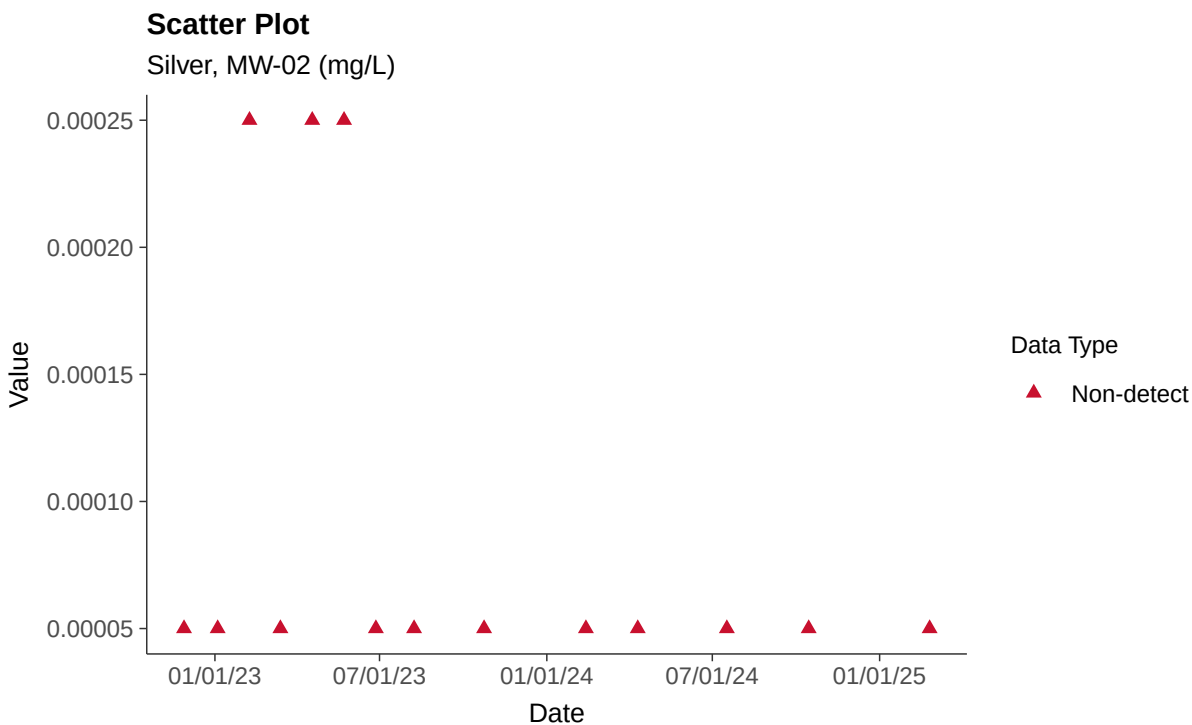


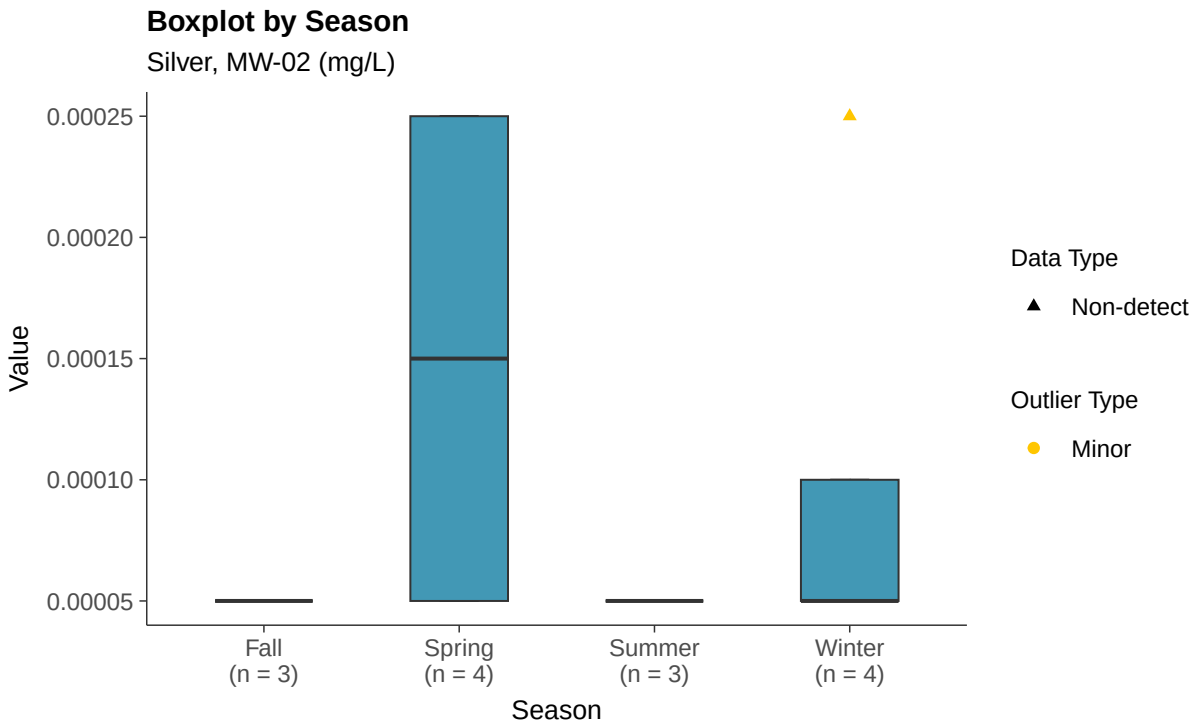
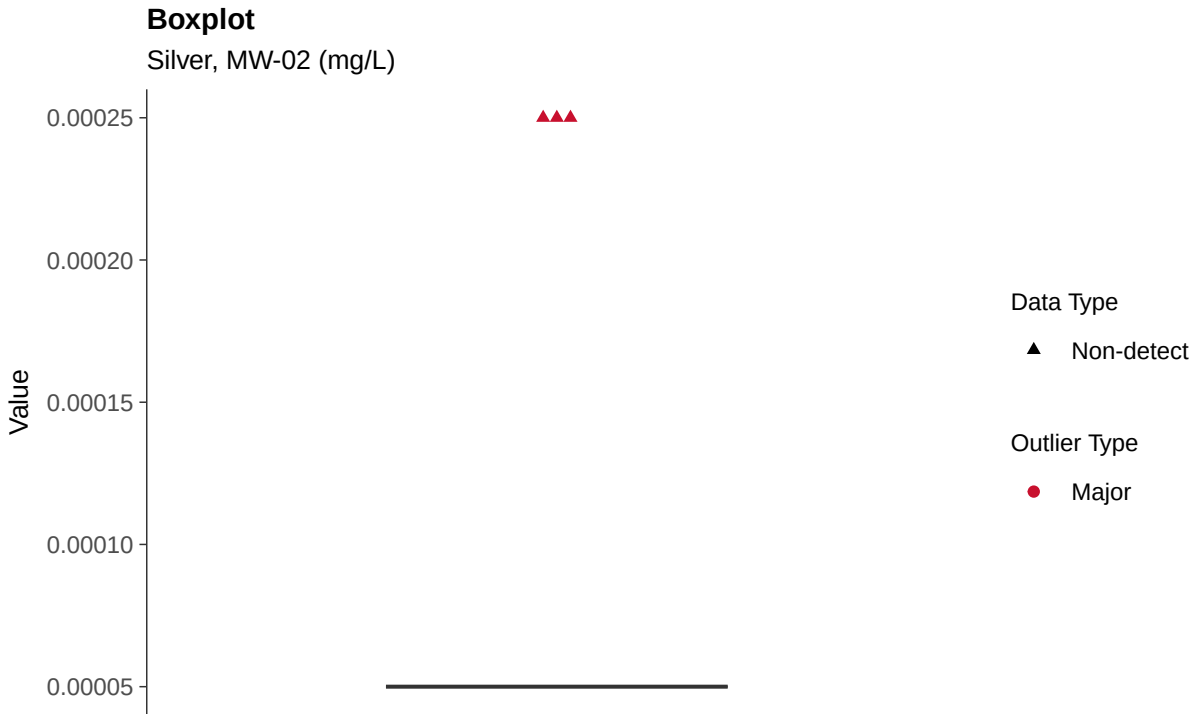




Part 115: Silver, MW-02

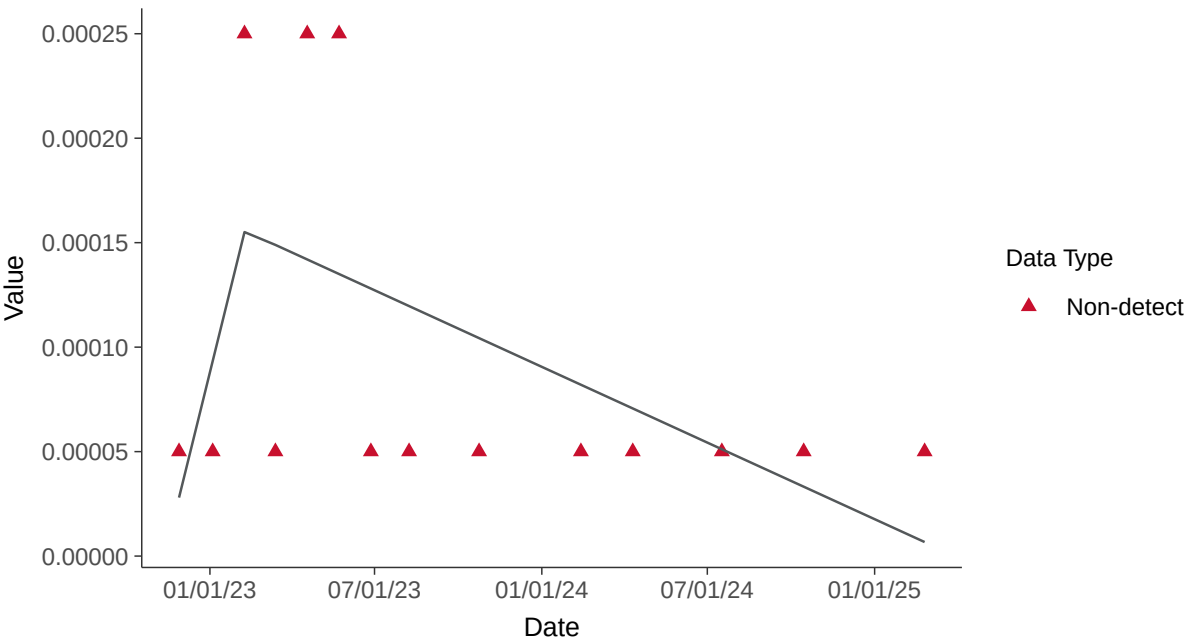
ID: 12_2_5_123



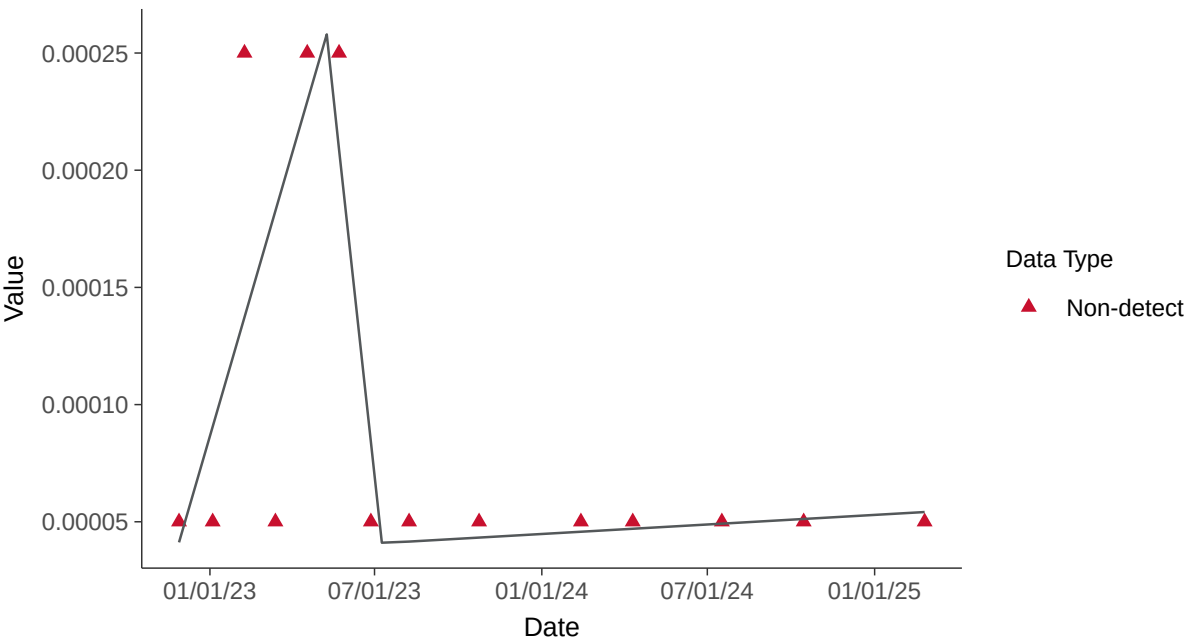




Trend Regression: Piecewise Linear-Linear
Silver, MW-02 (mg/L)



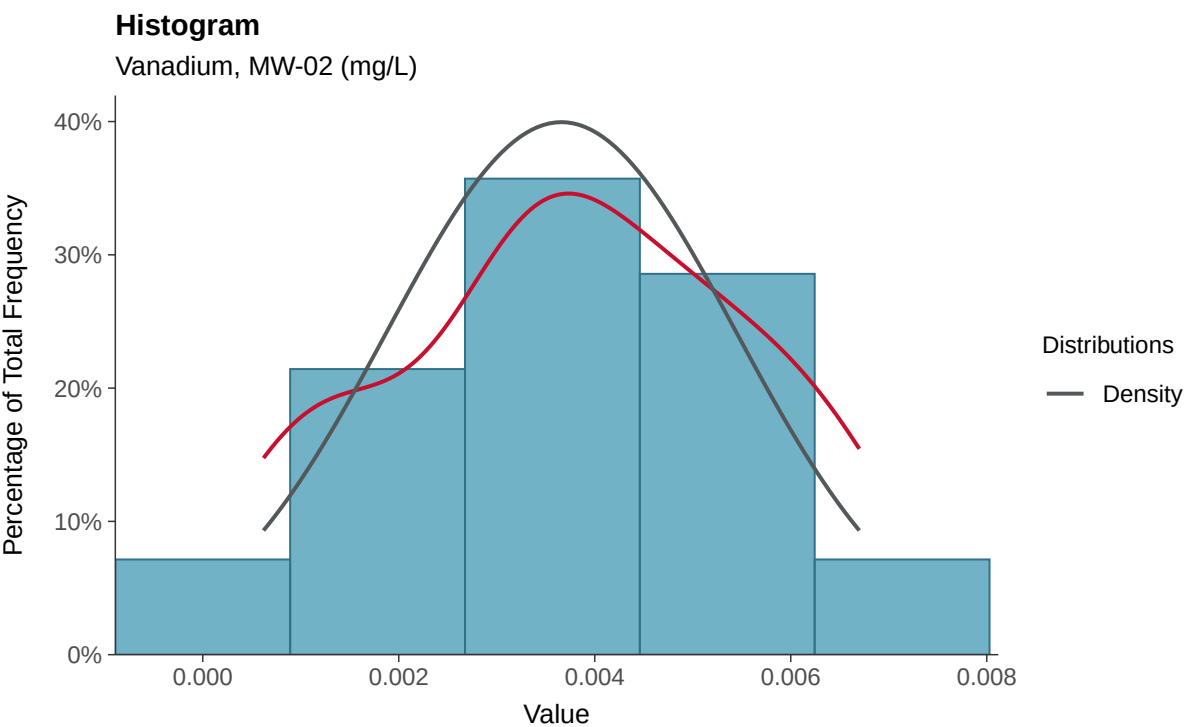
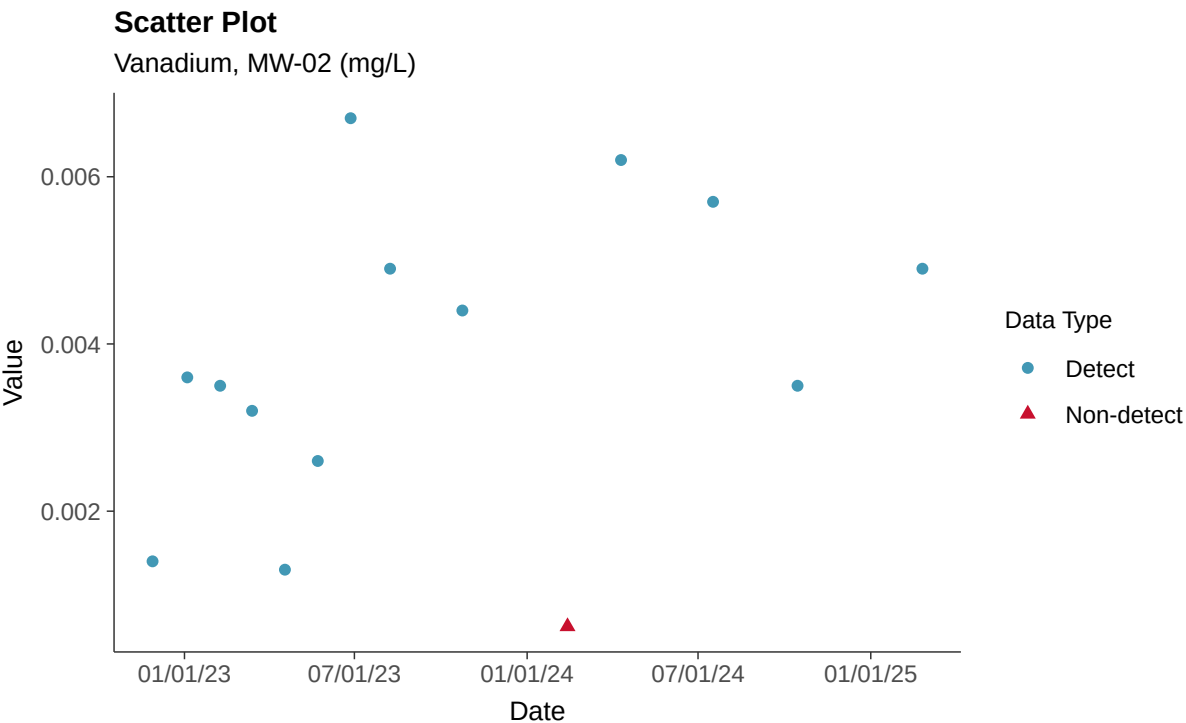
Trend Regression: Piecewise Linear-Linear-Linear
Silver, MW-02 (mg/L)

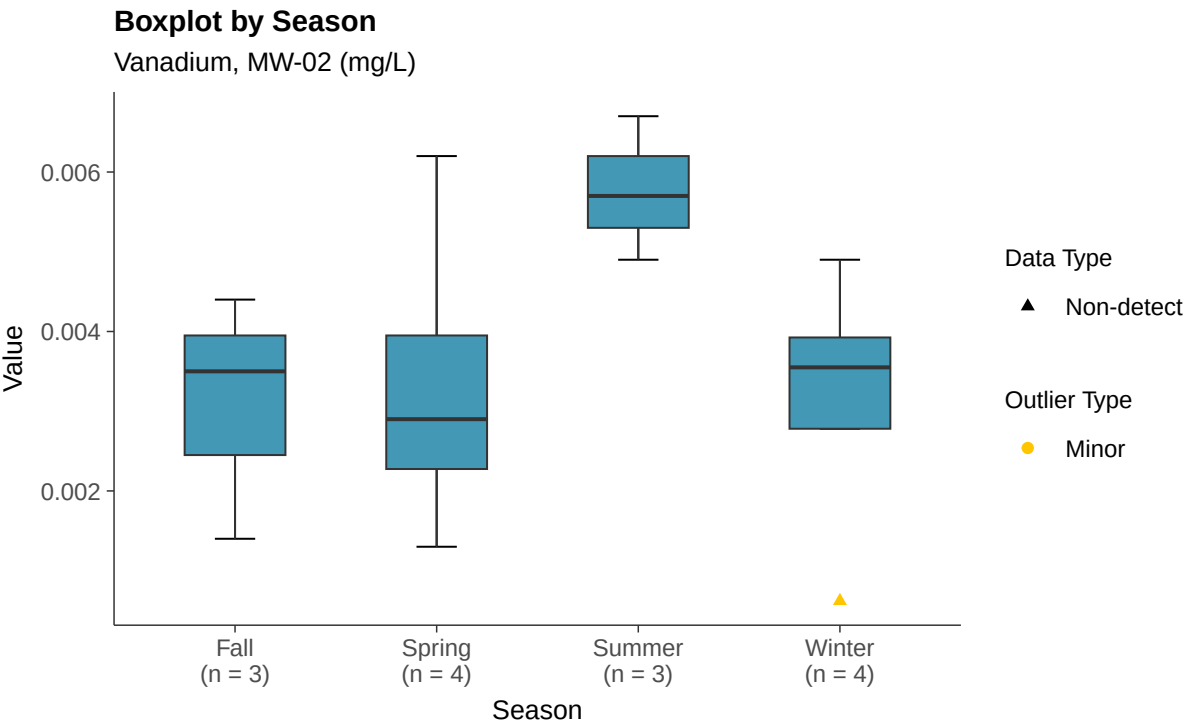
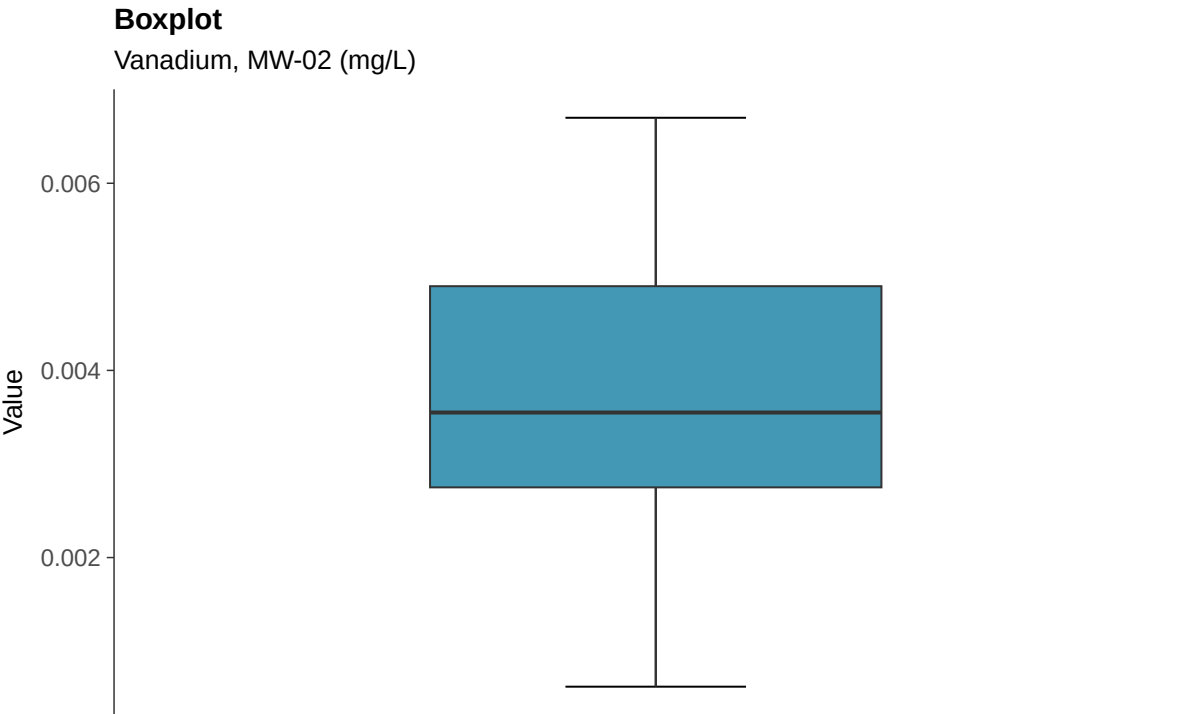


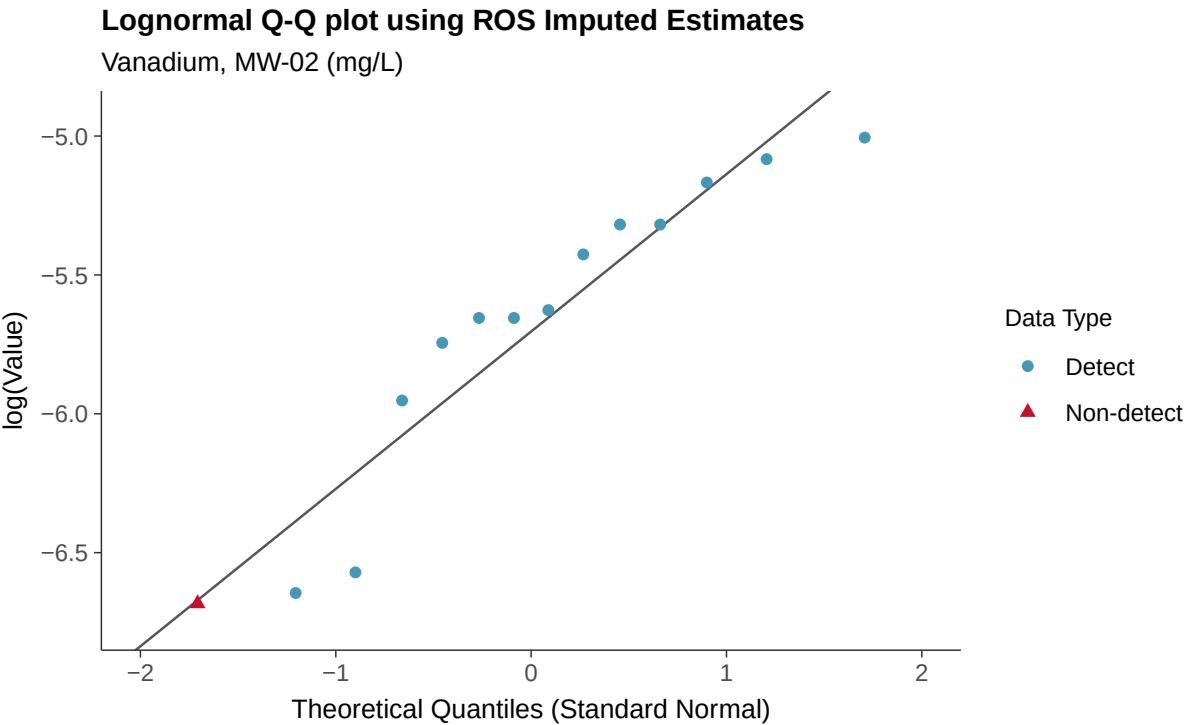
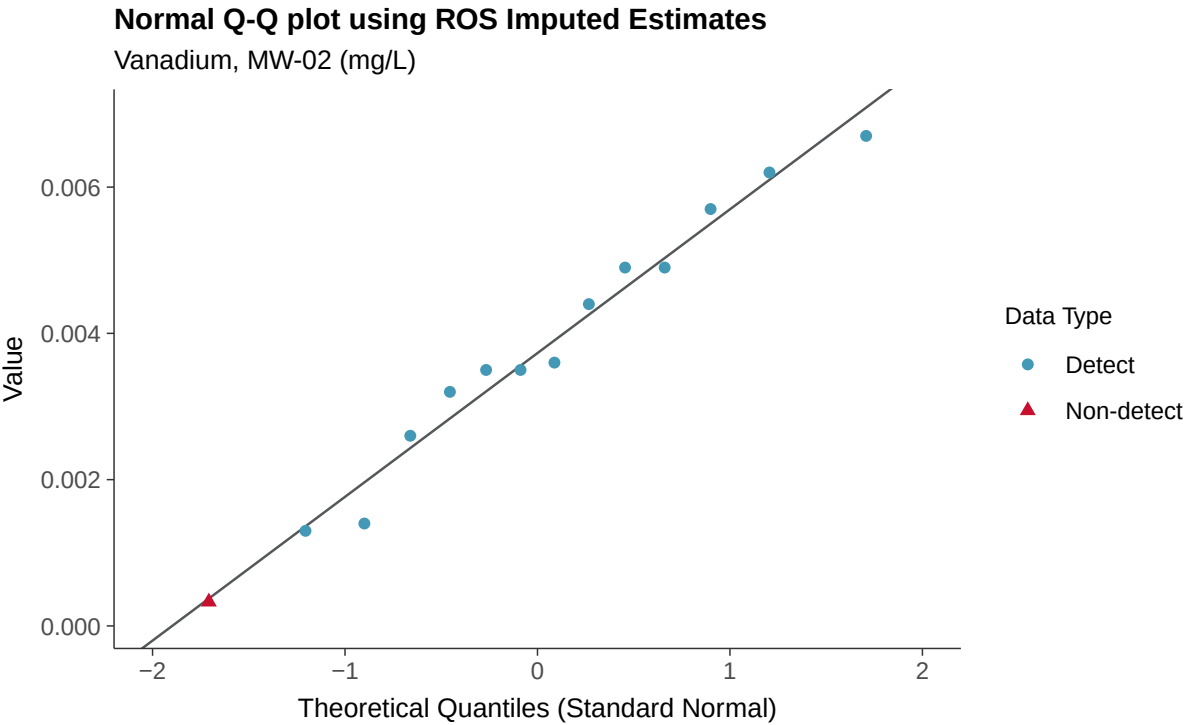


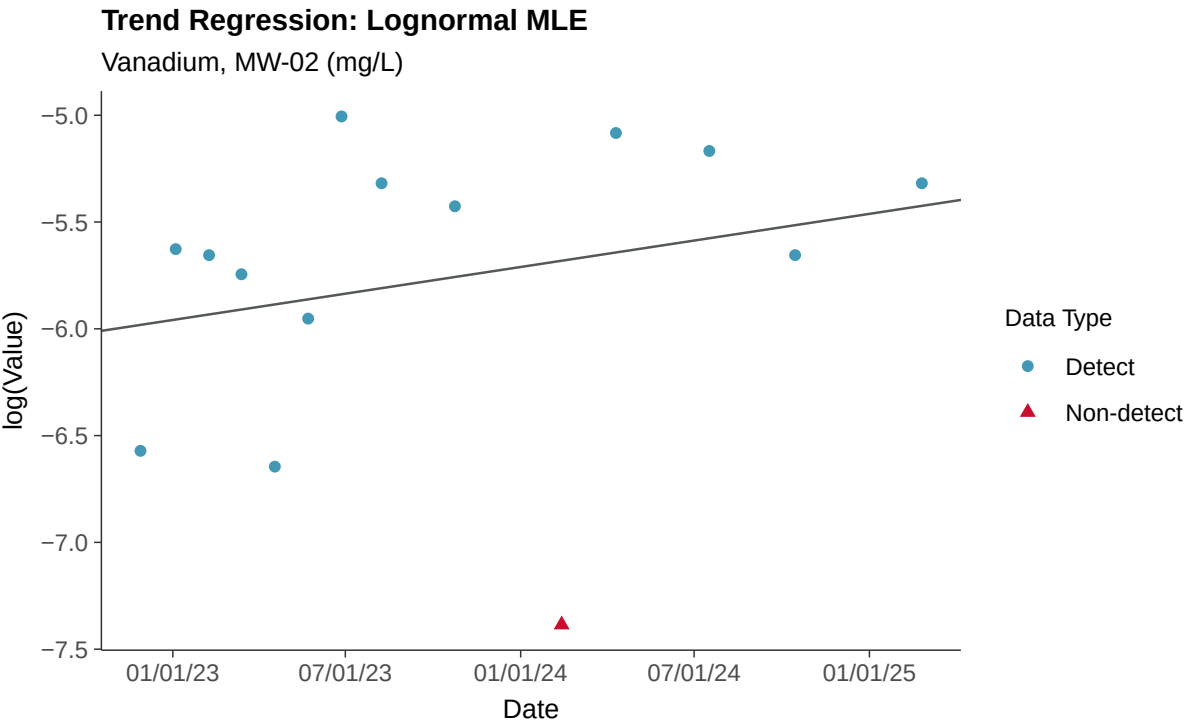
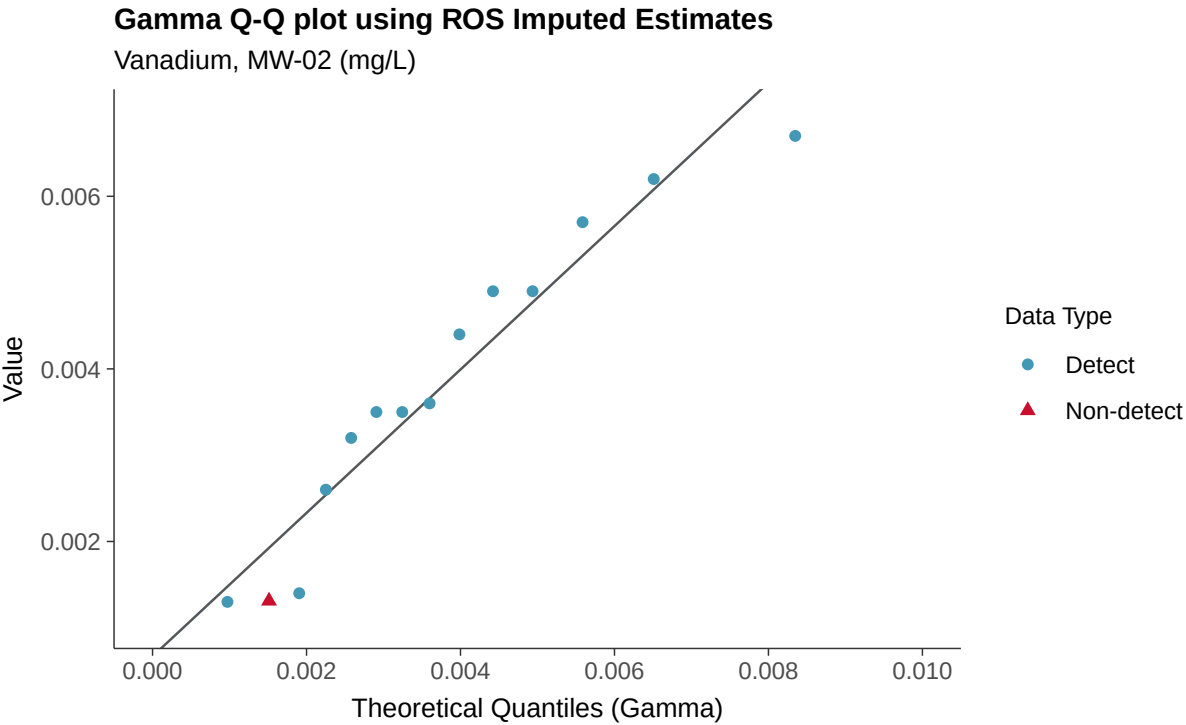
Part 115: Vanadium, MW-02

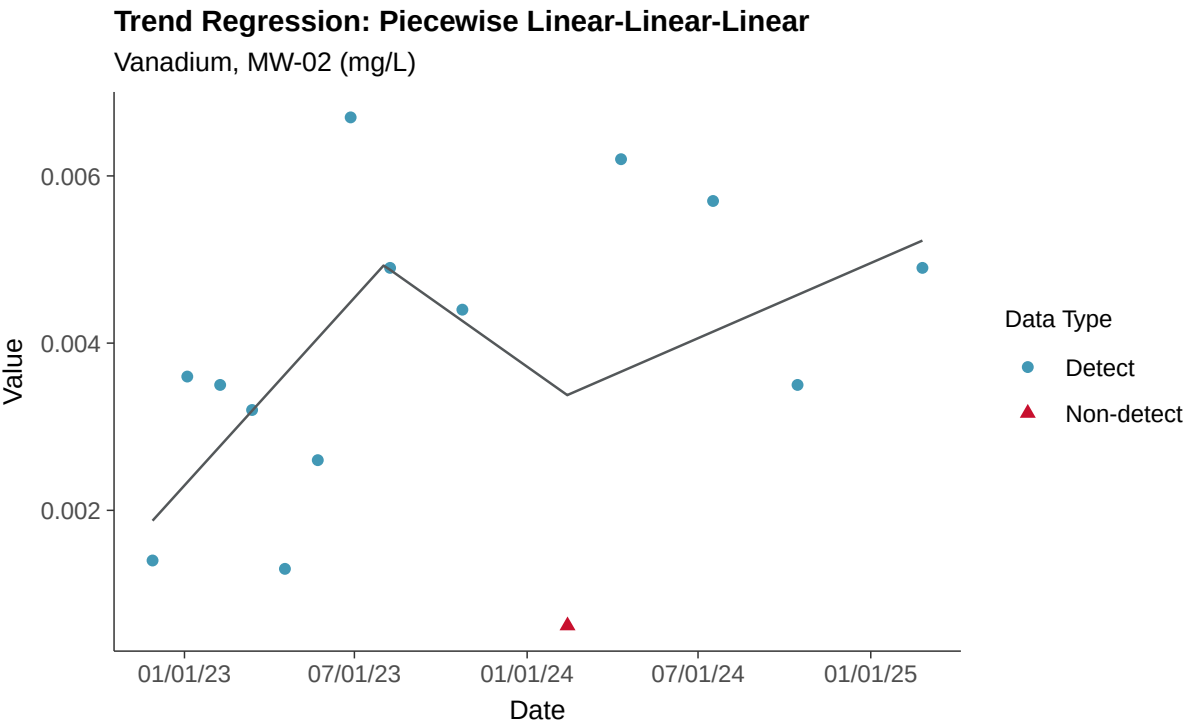
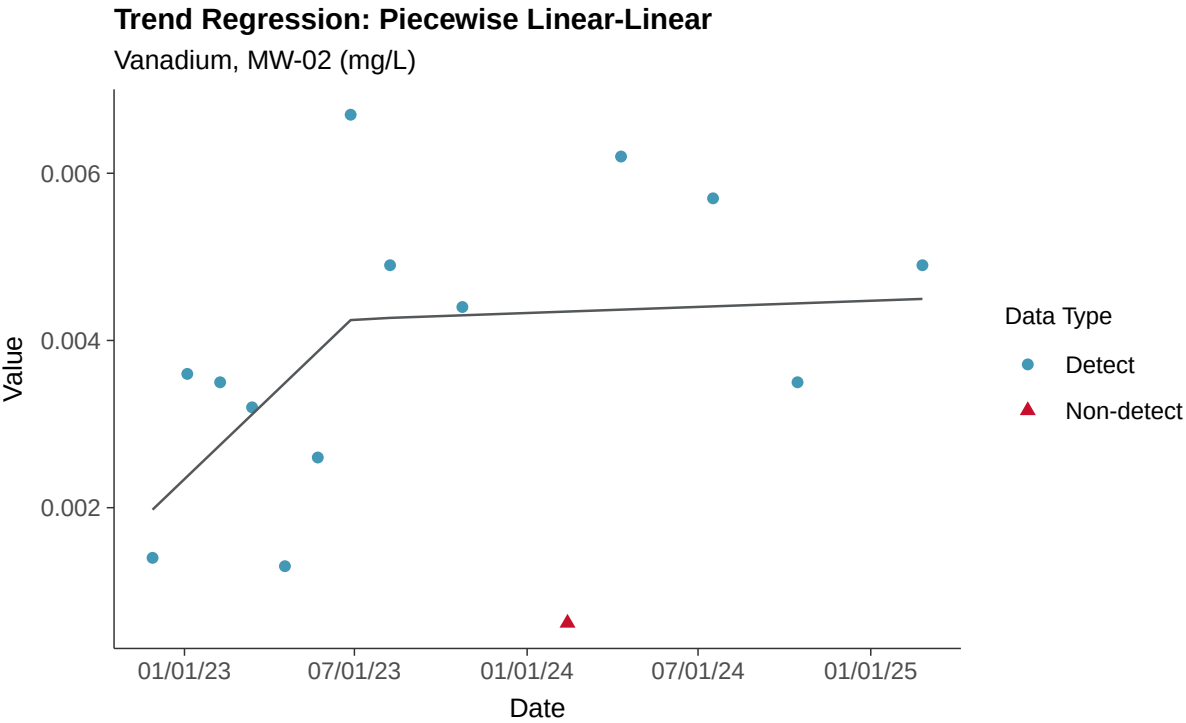
ID: 12_2_5_128







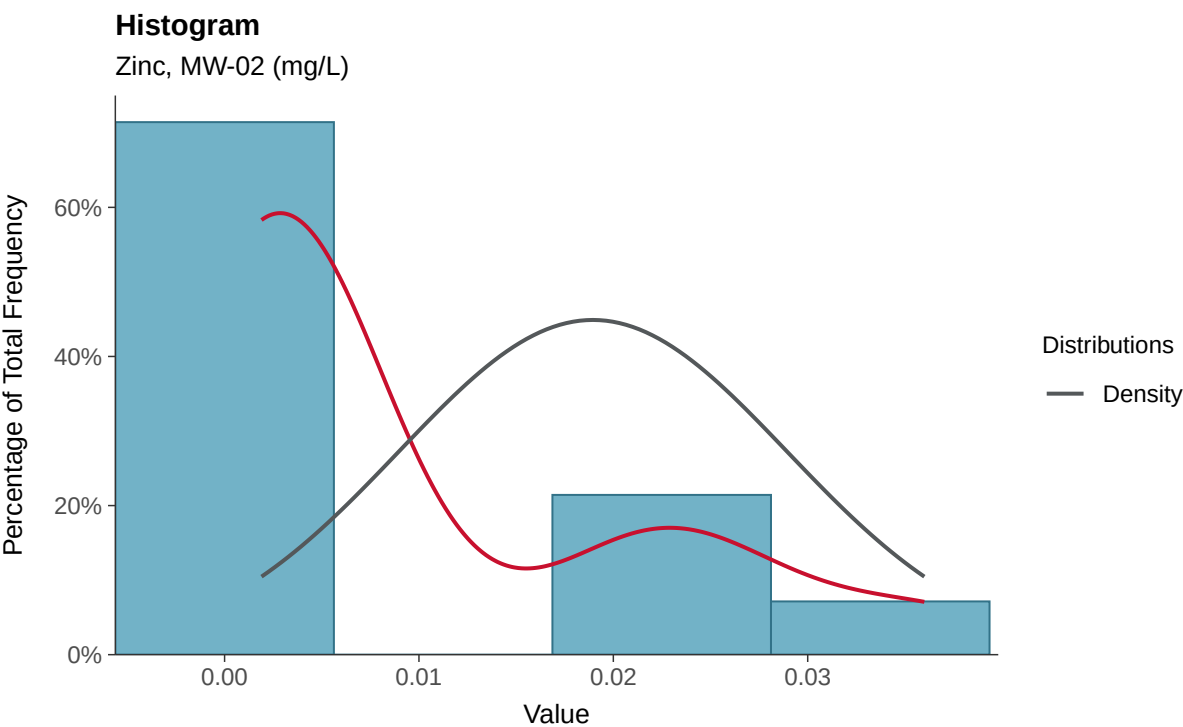
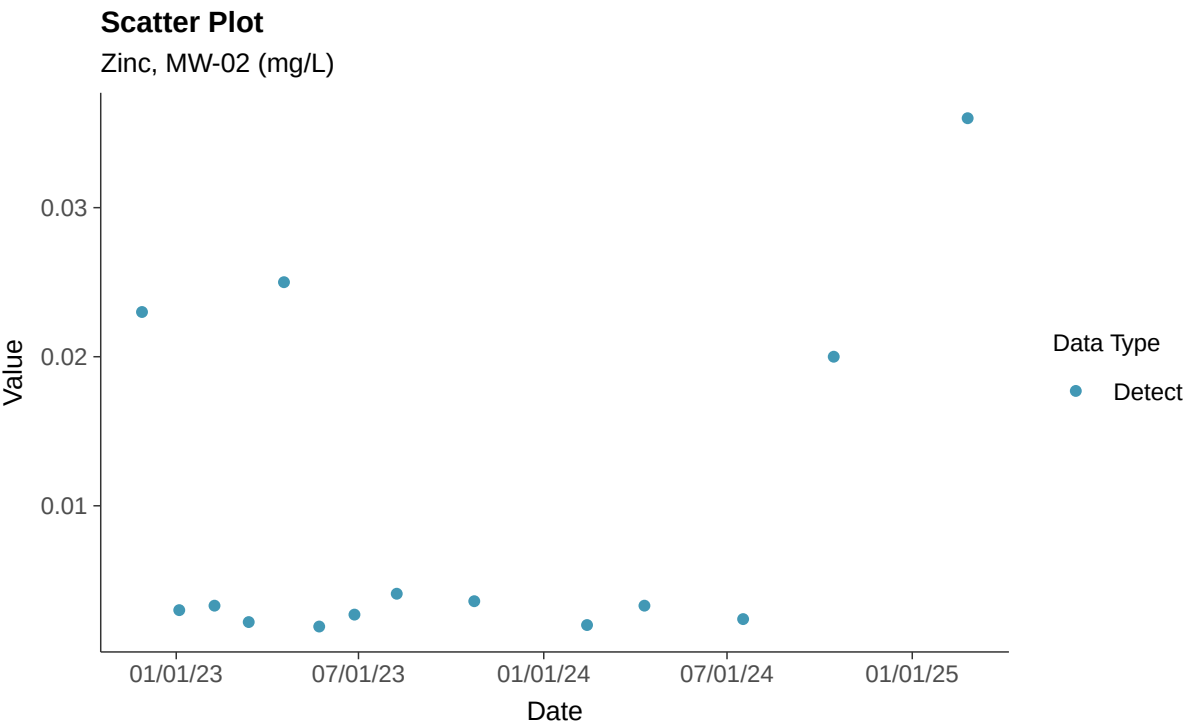


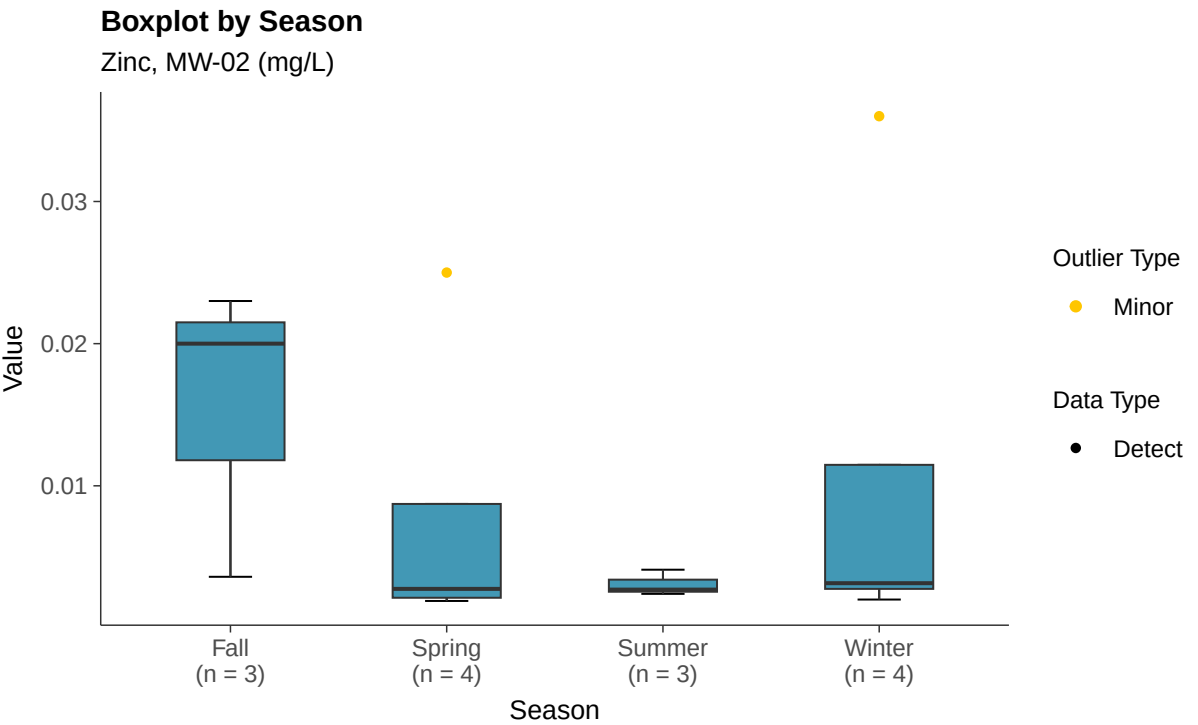


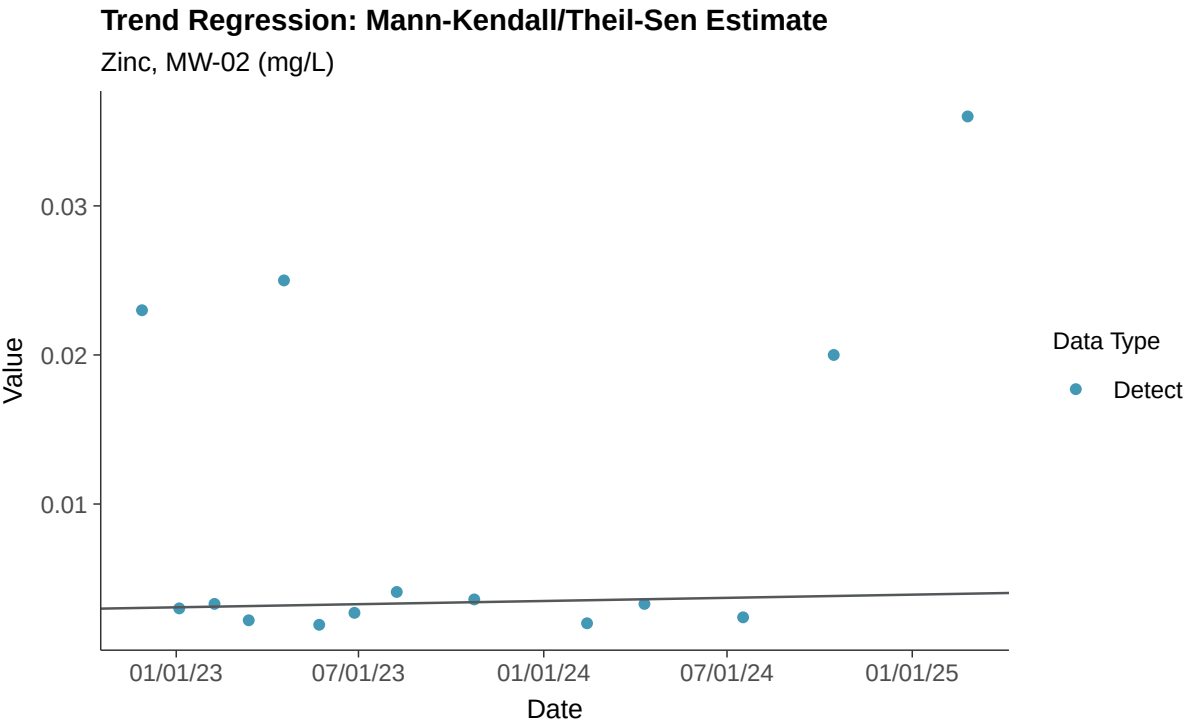
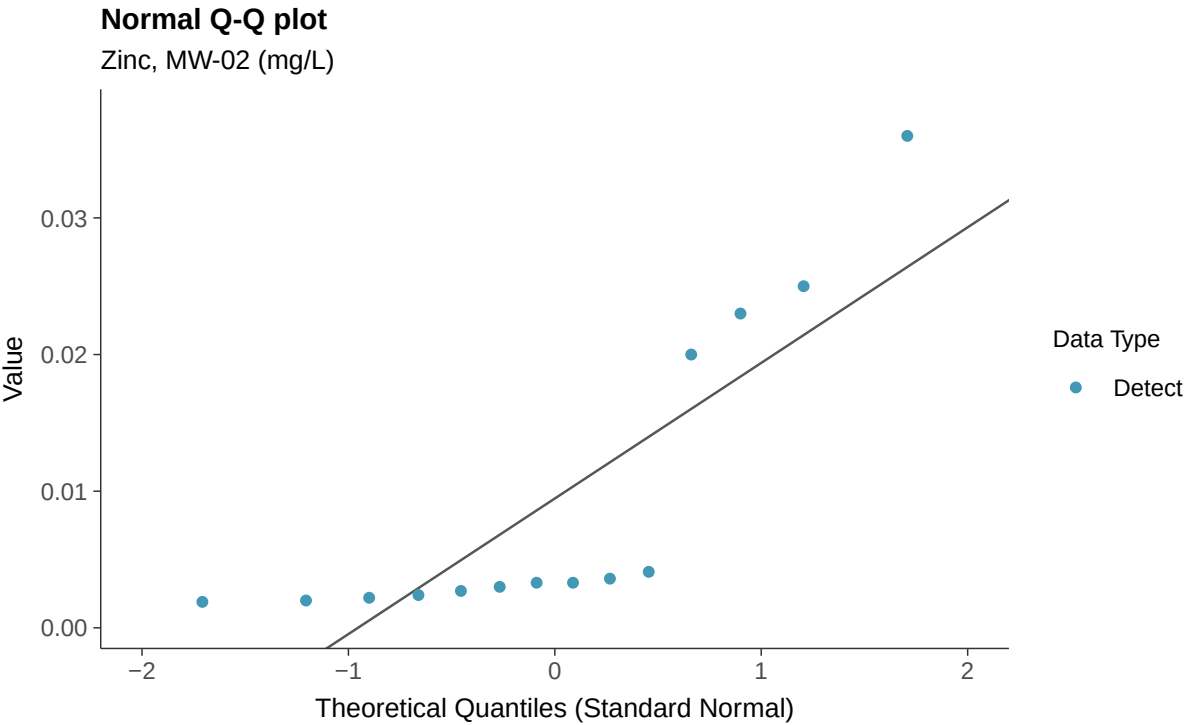


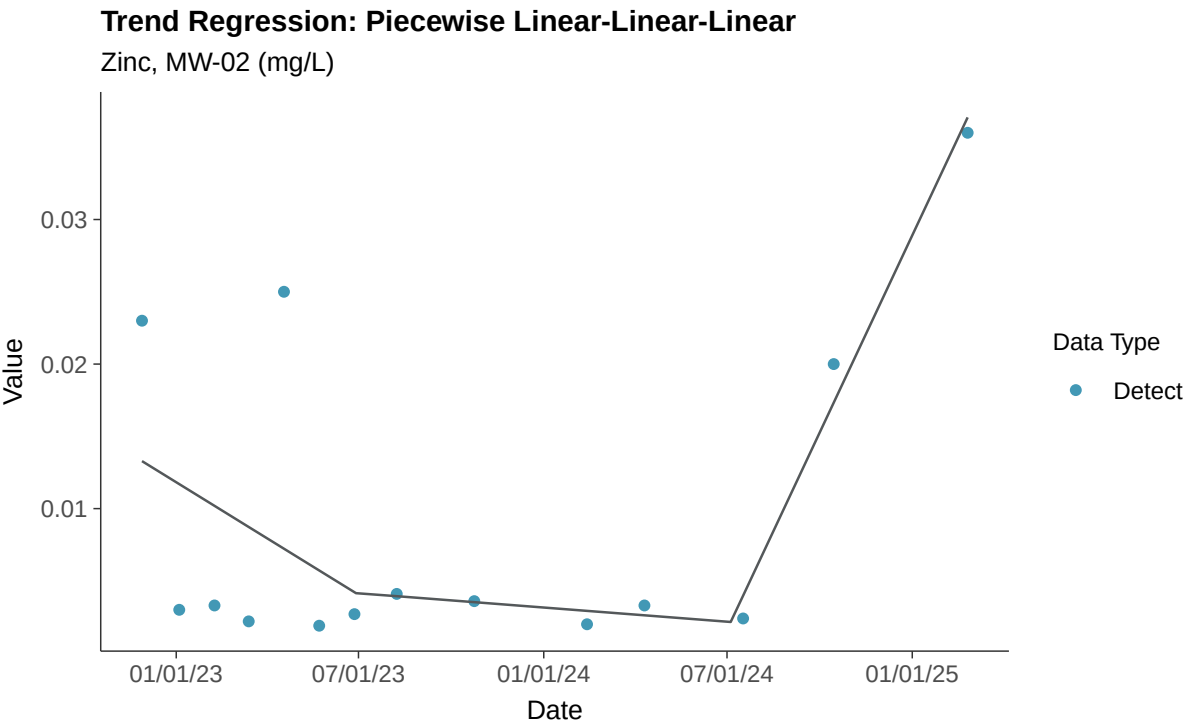
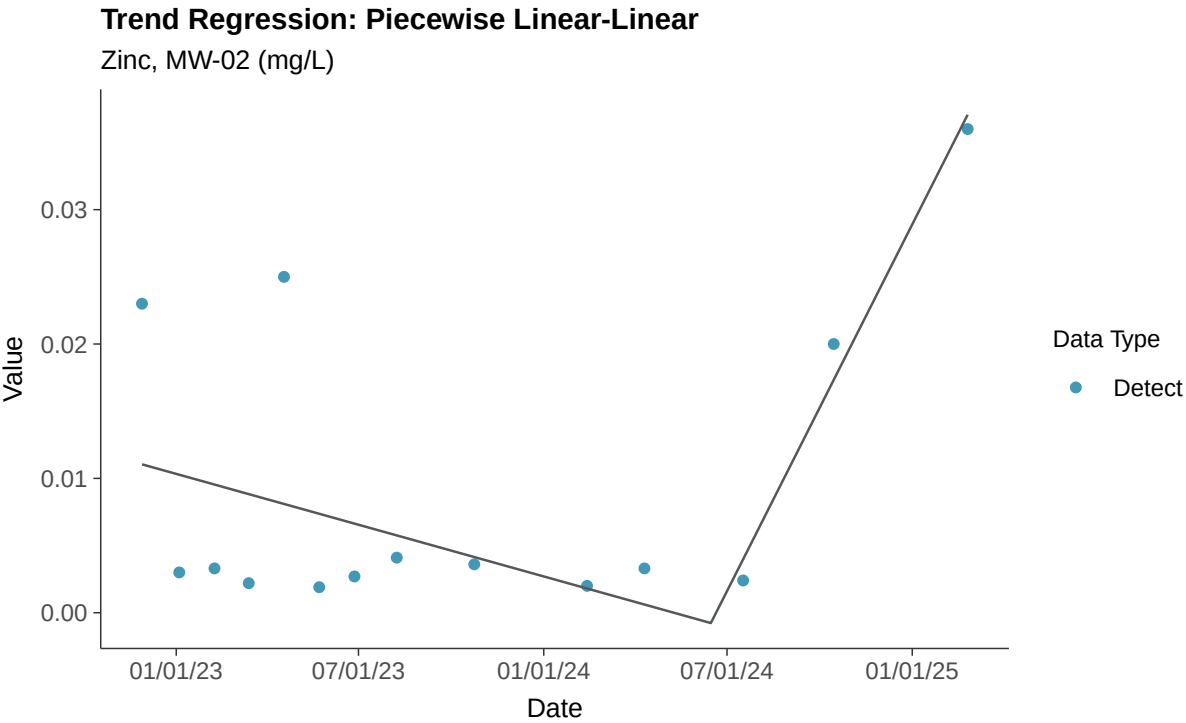
Part 115: Zinc, MW-02

ID: 12_2_5_129





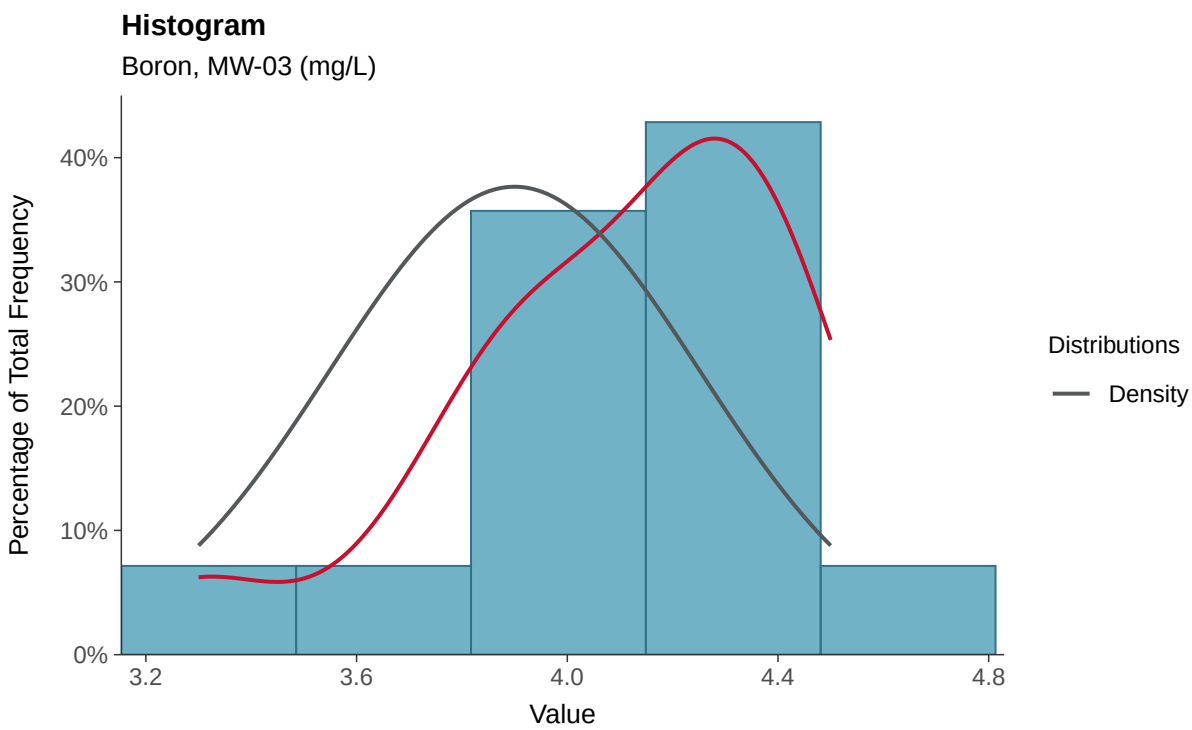
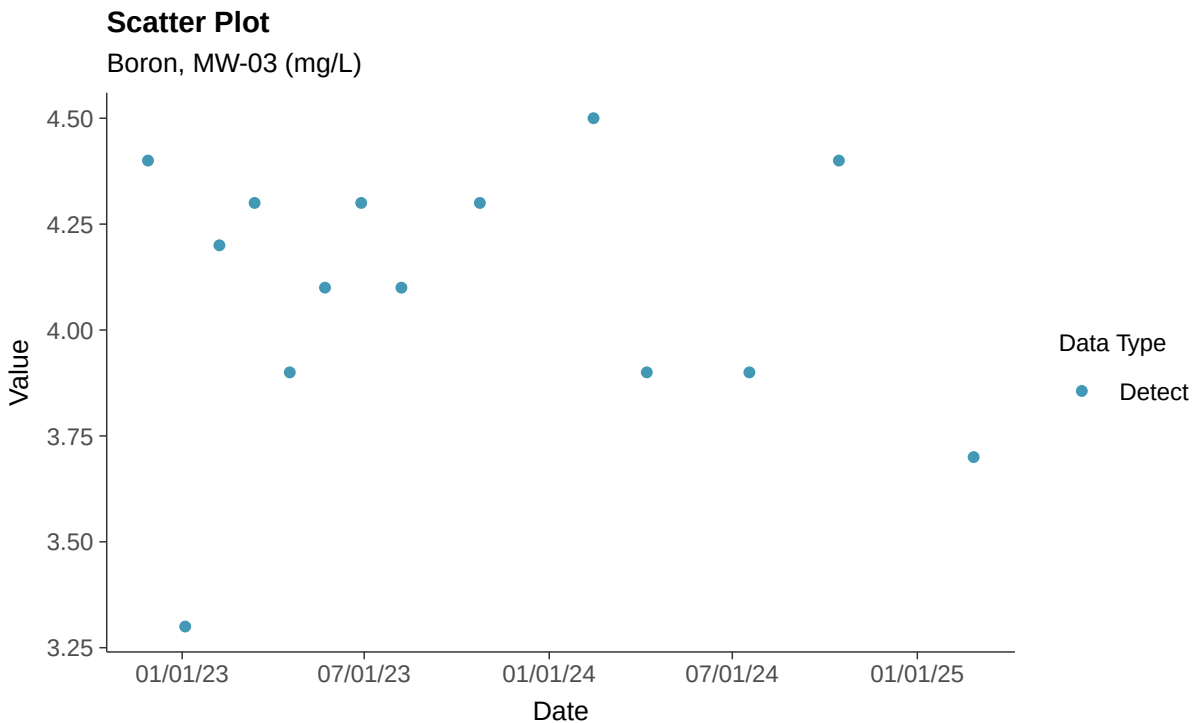


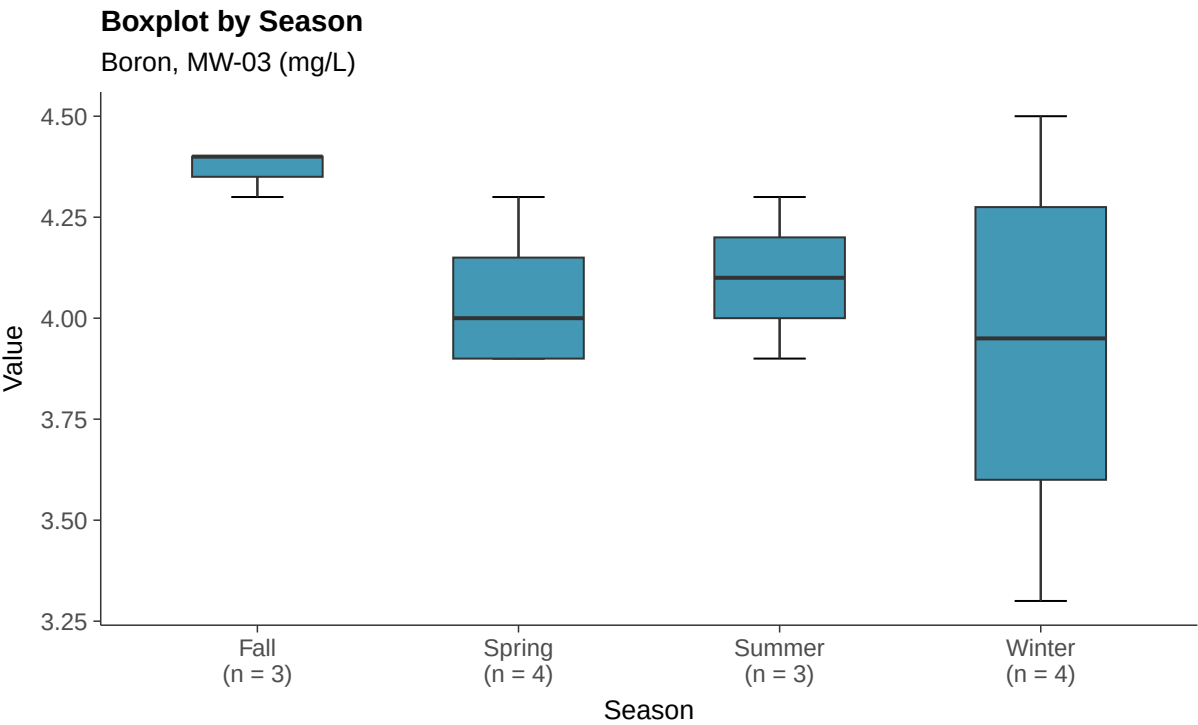
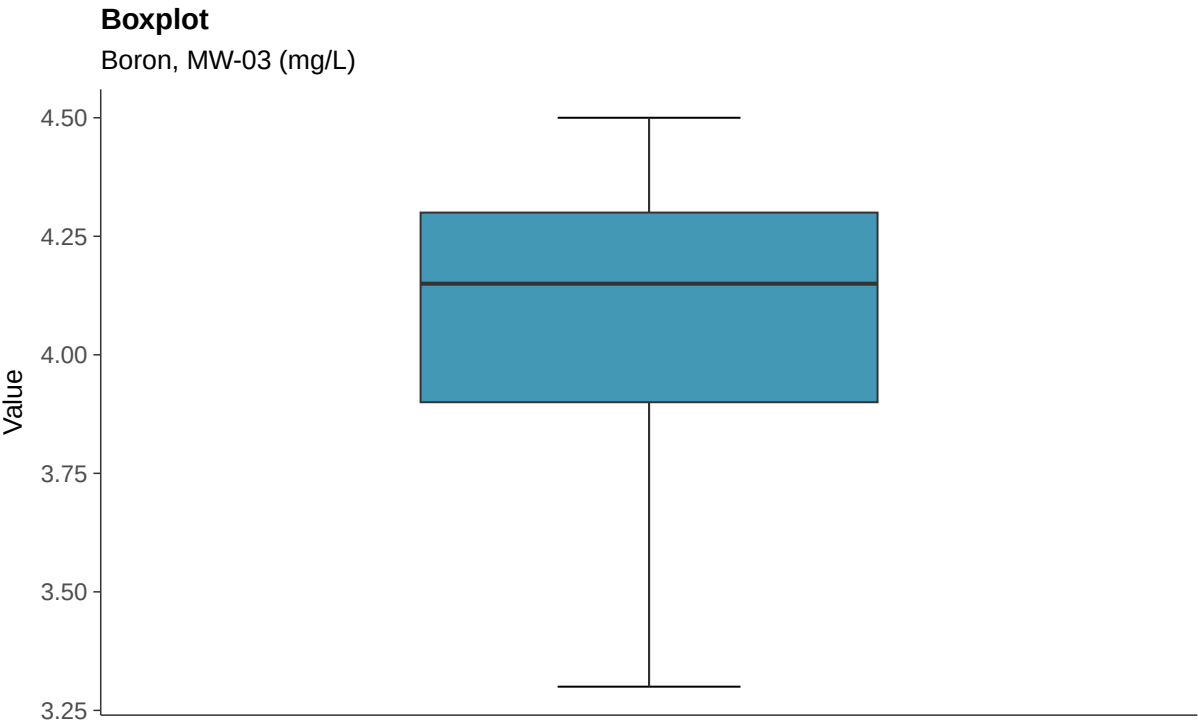


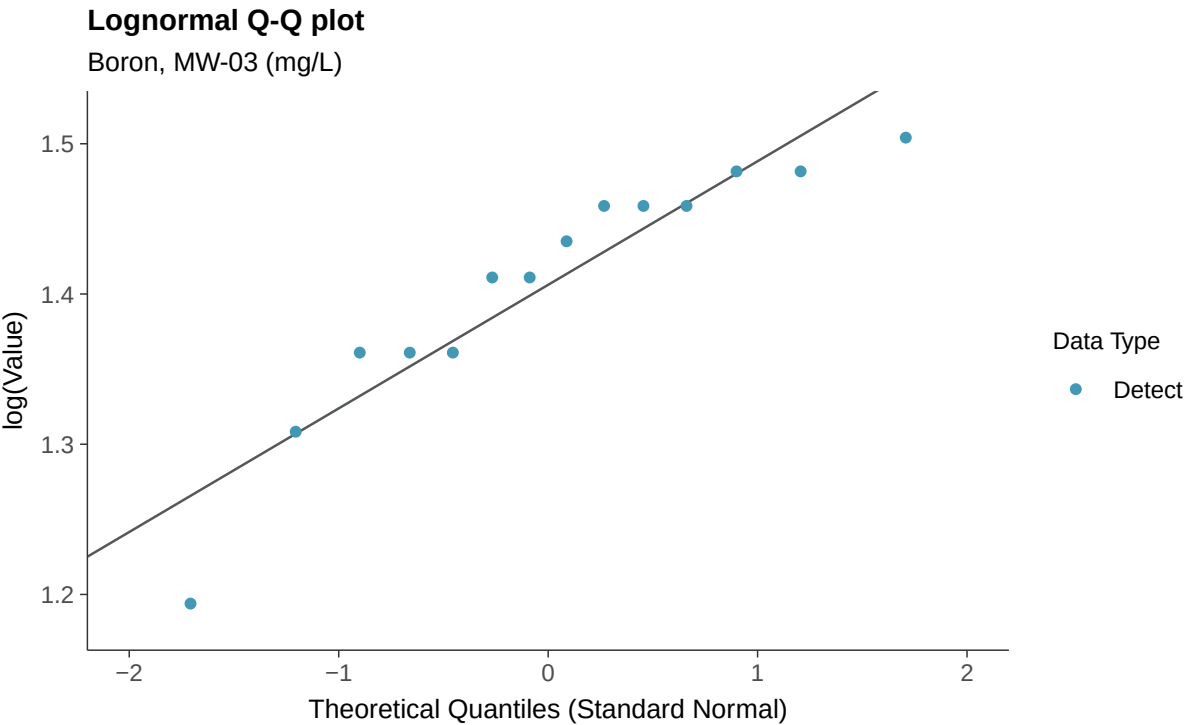
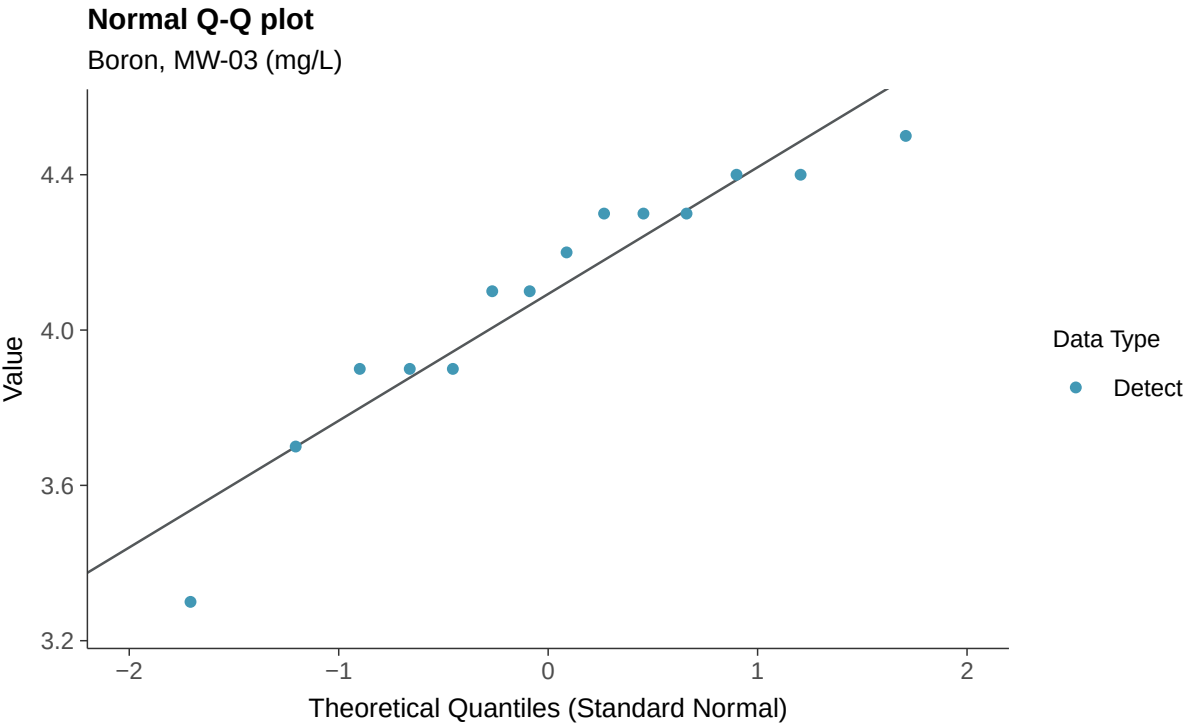


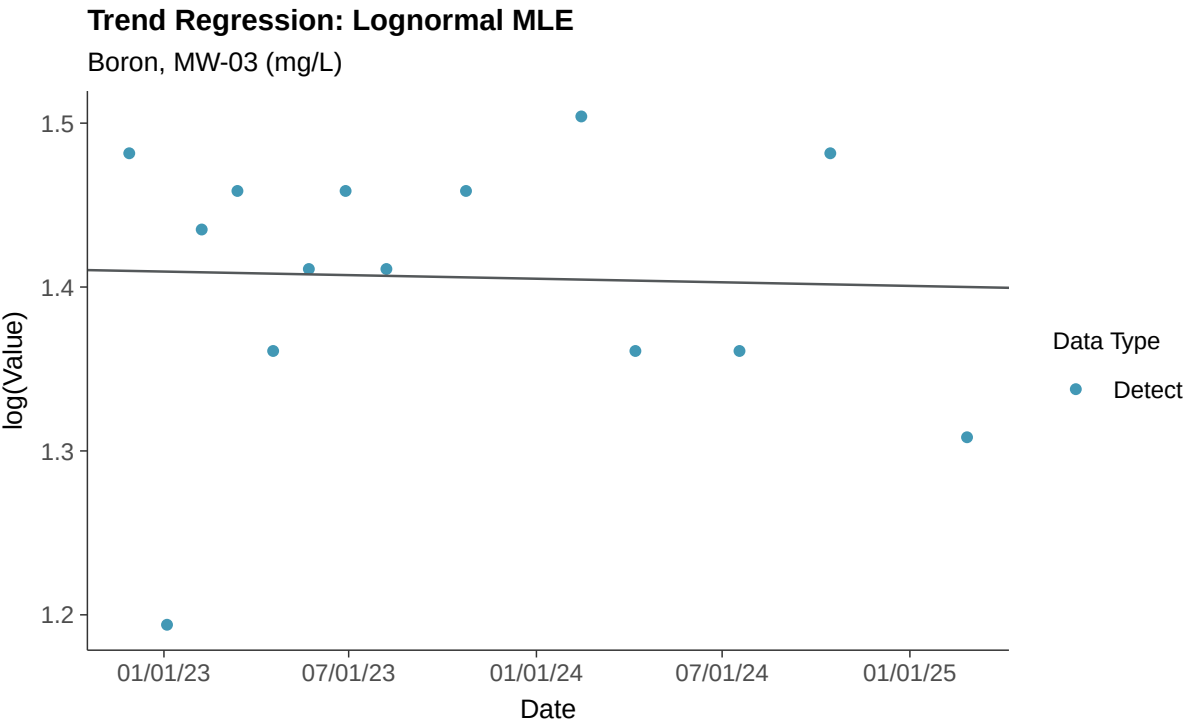
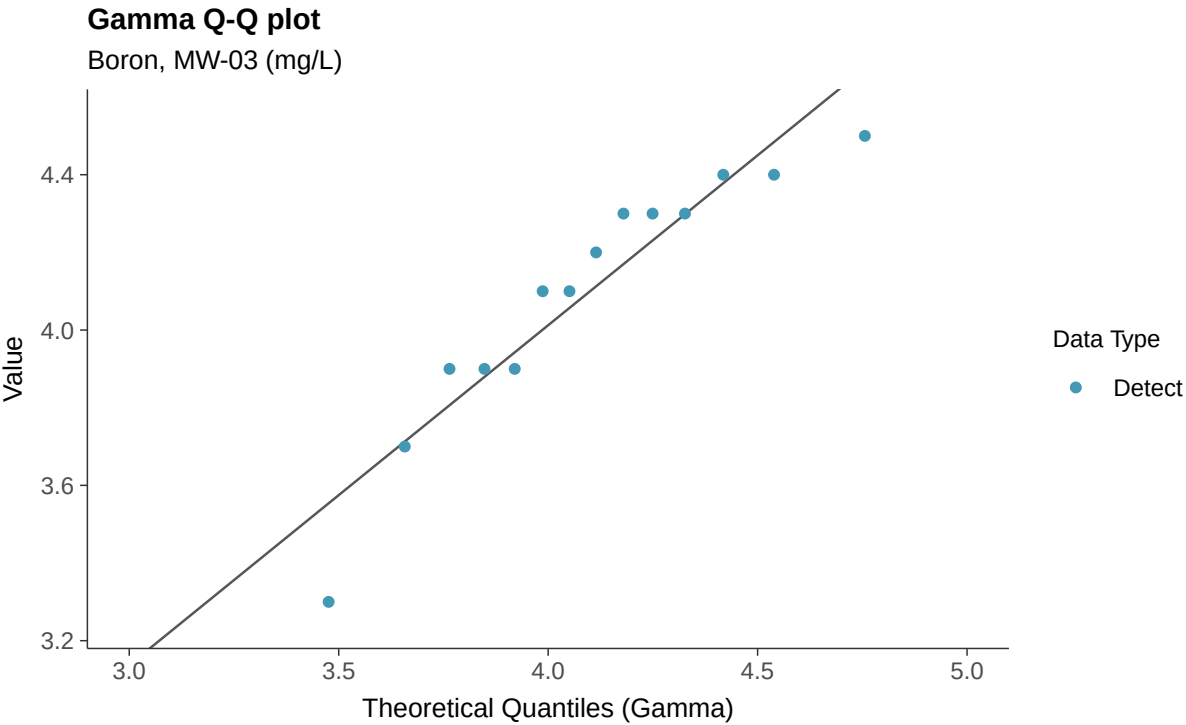
Appendix III: Boron, MW-03

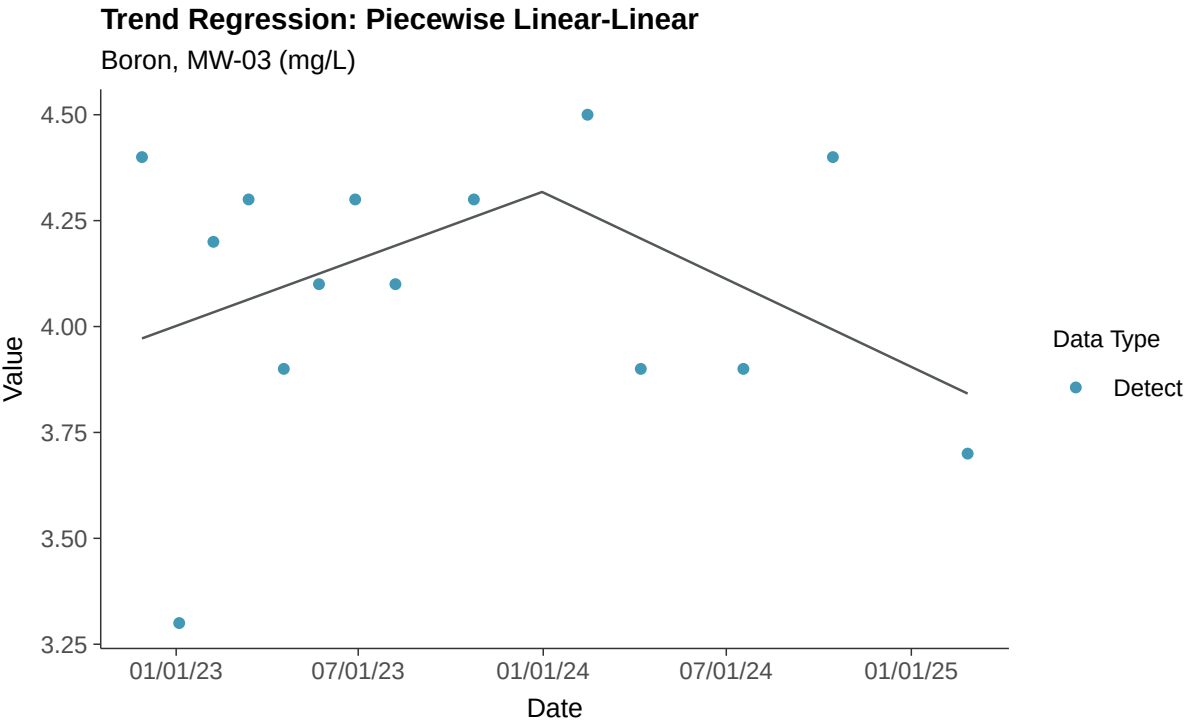
ID: 13_2_3_105







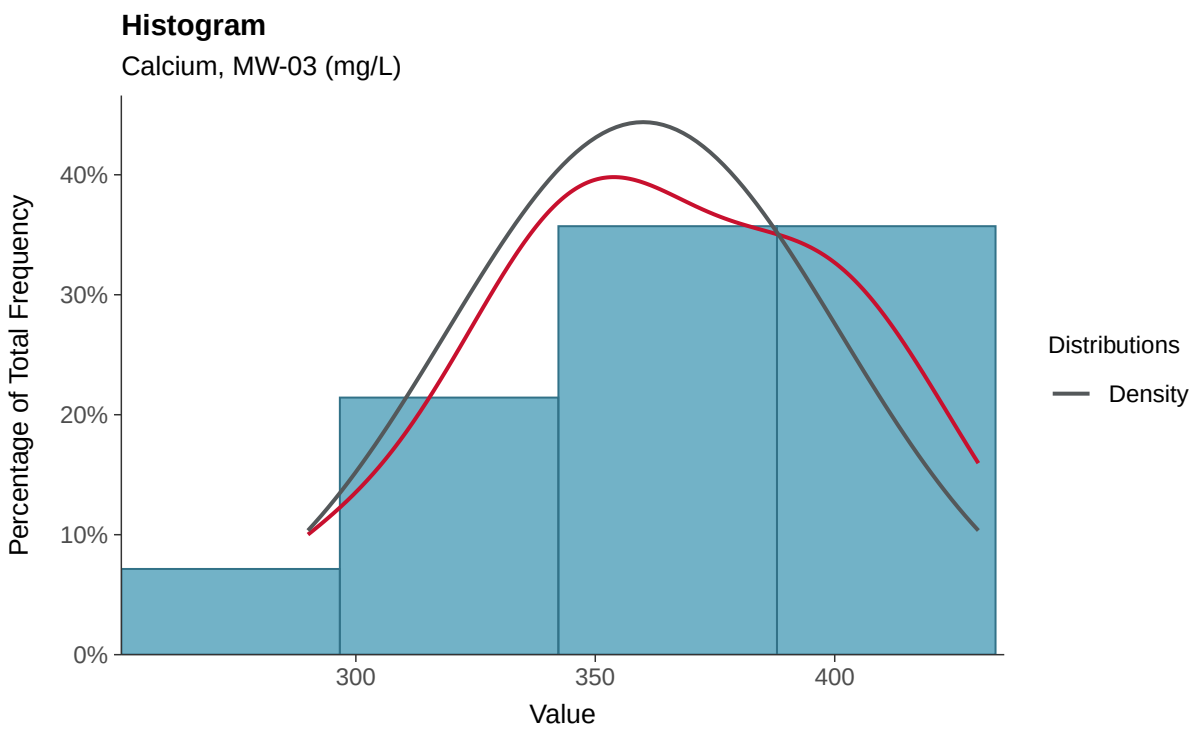
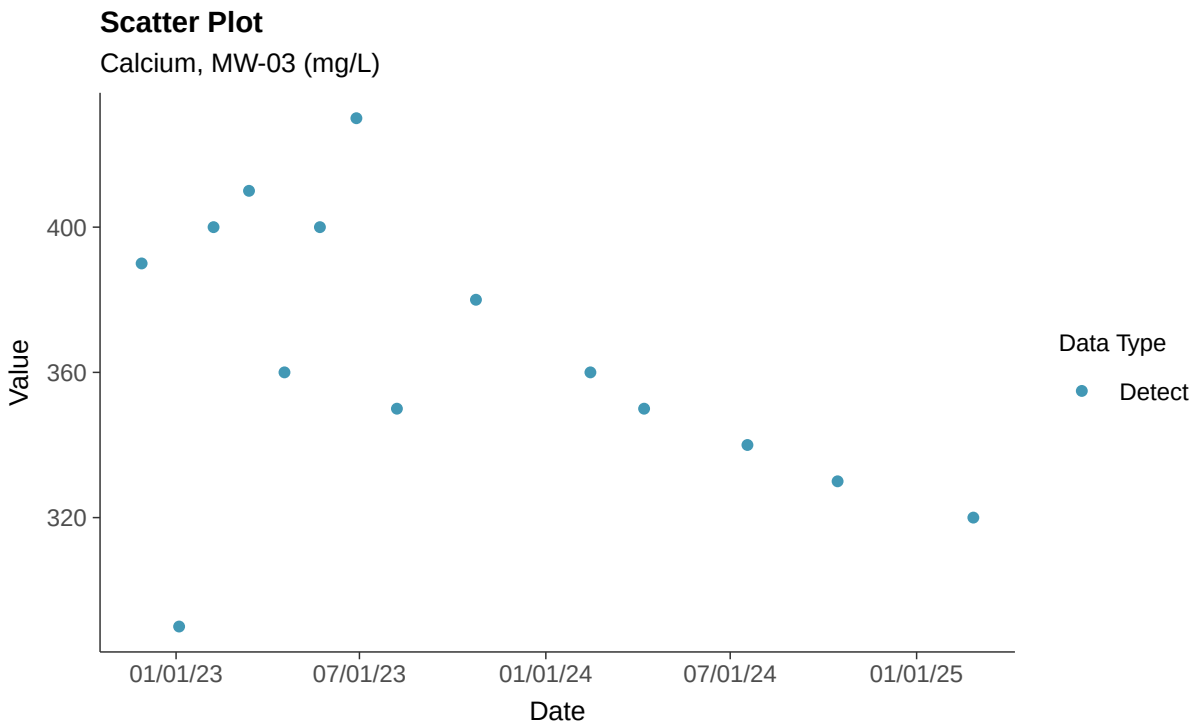


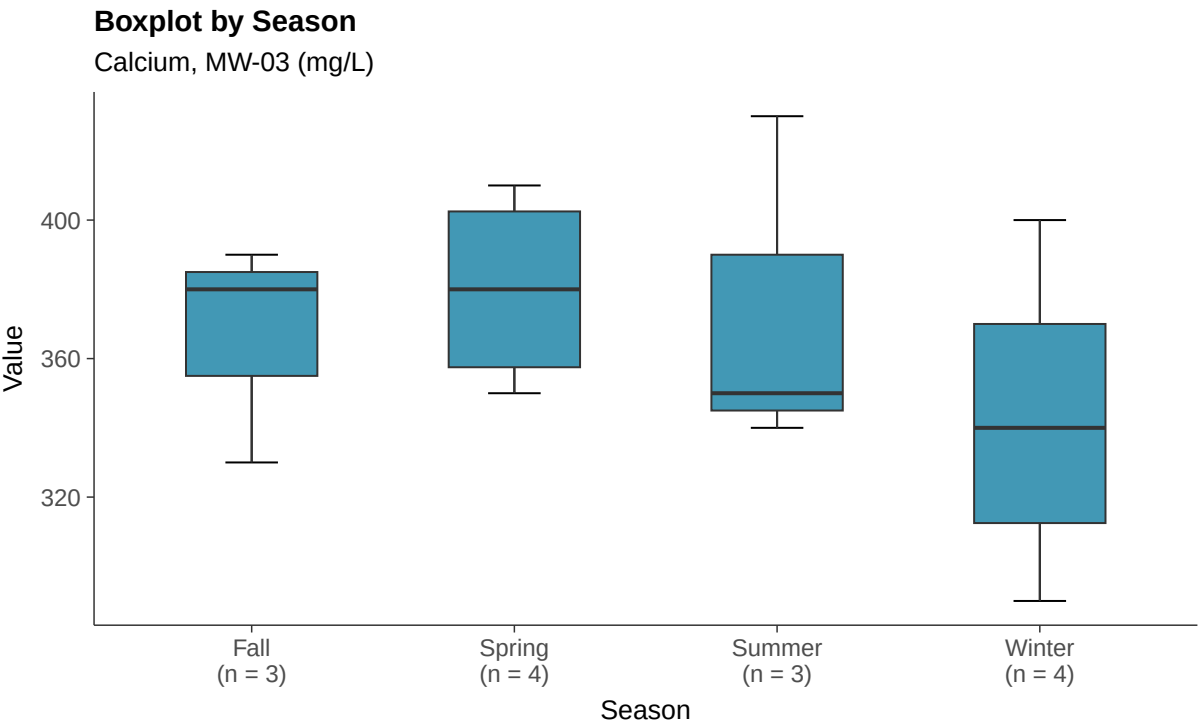
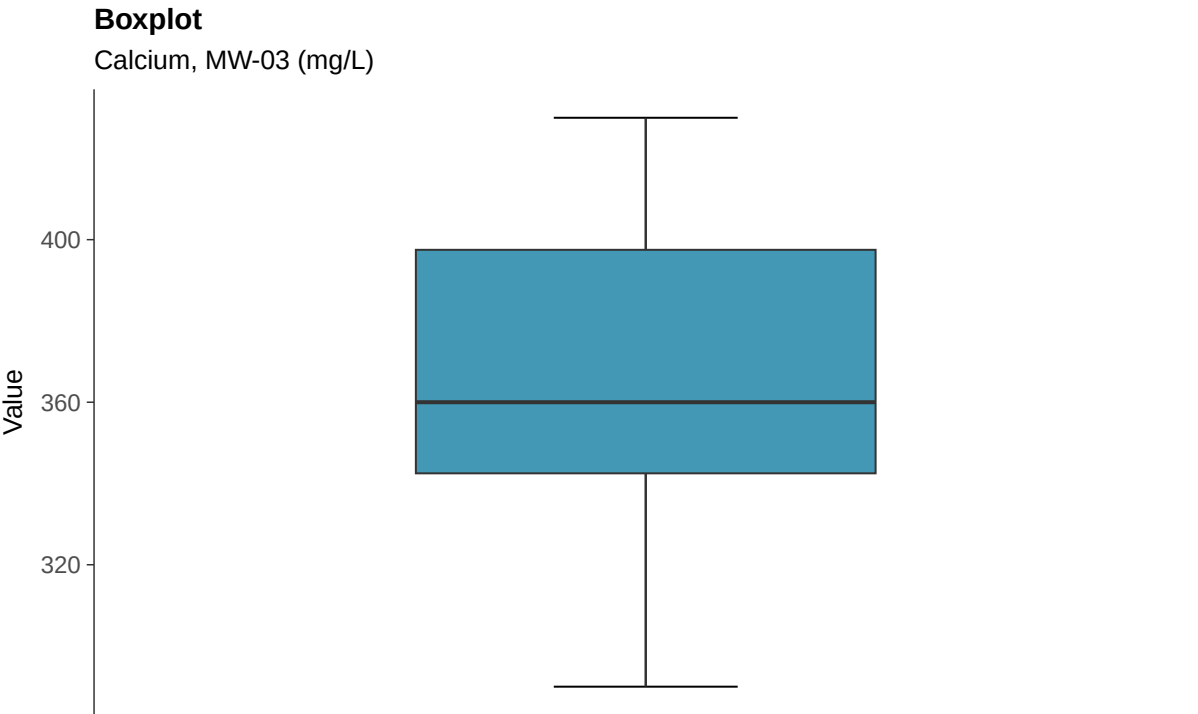


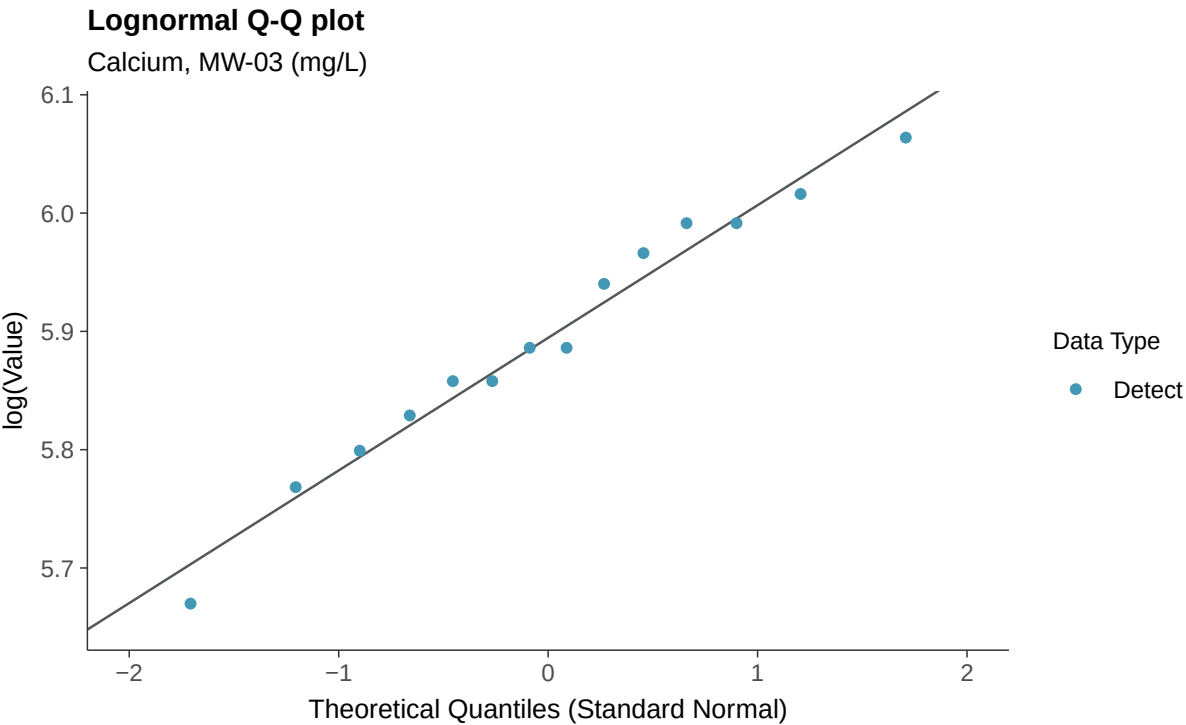
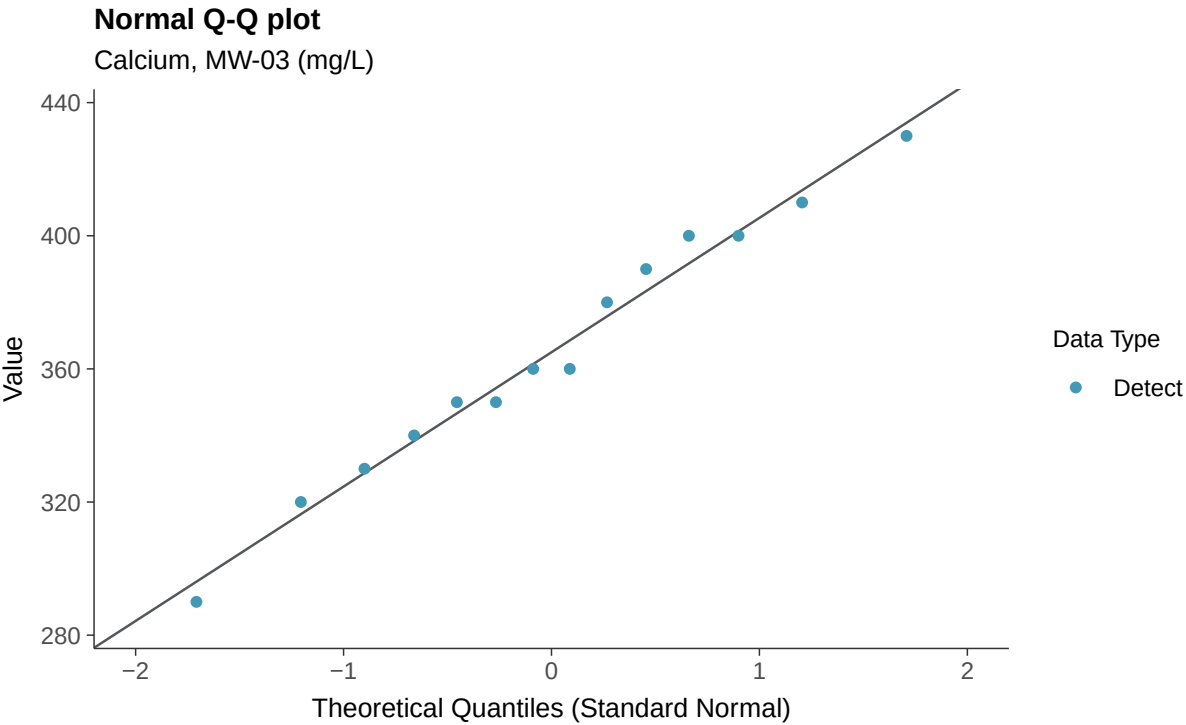


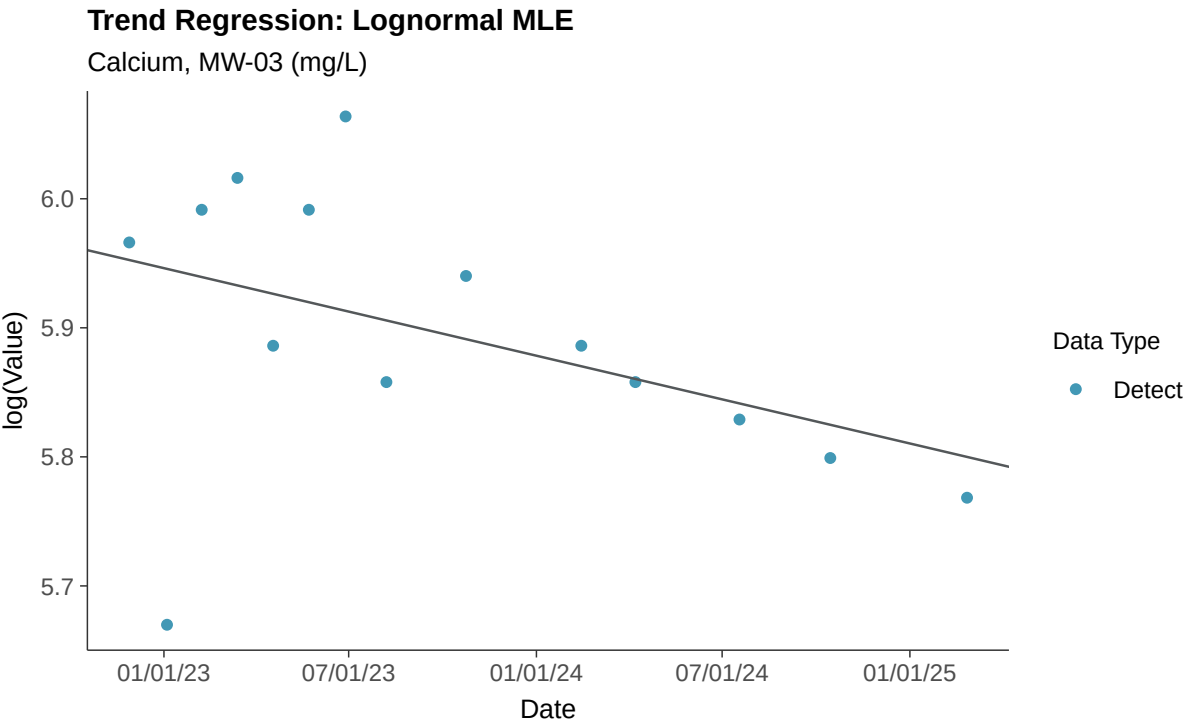
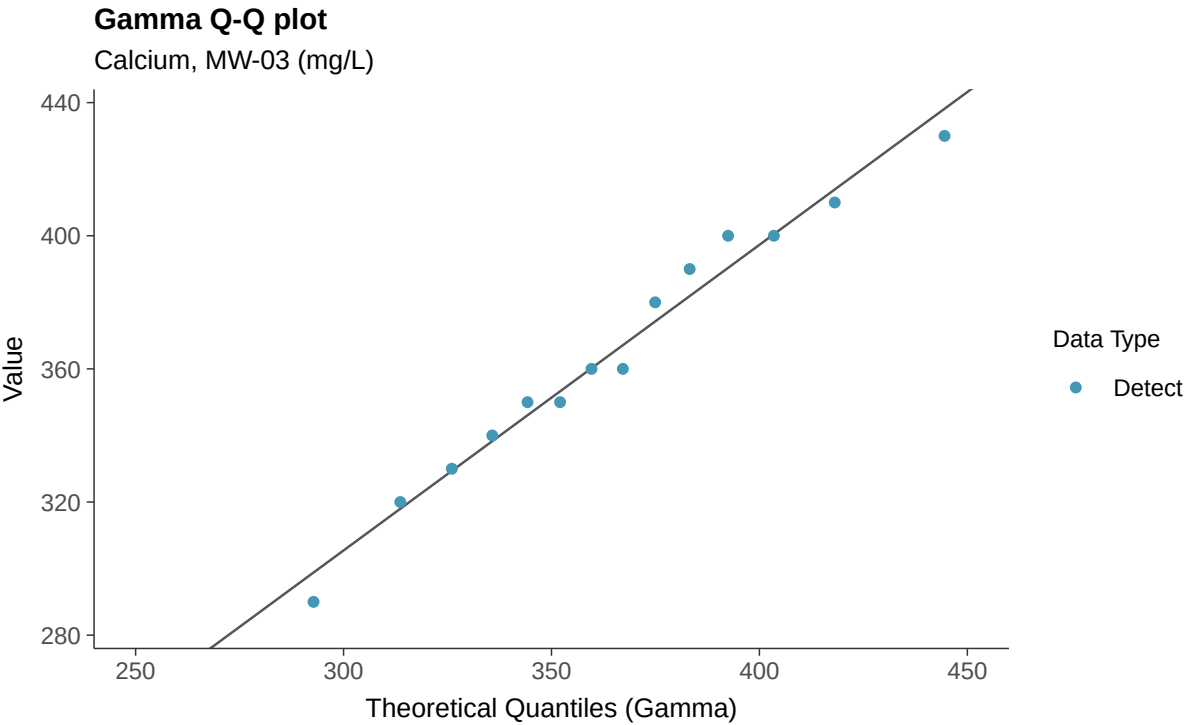
Appendix III: Calcium, MW-03

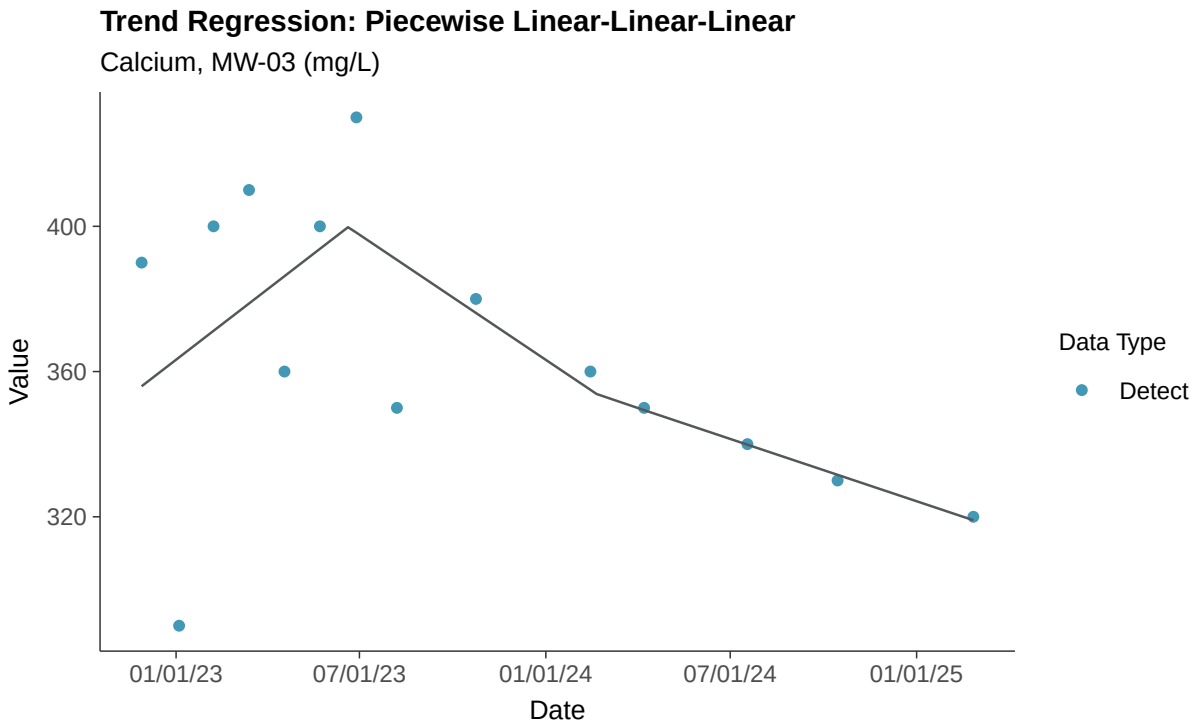
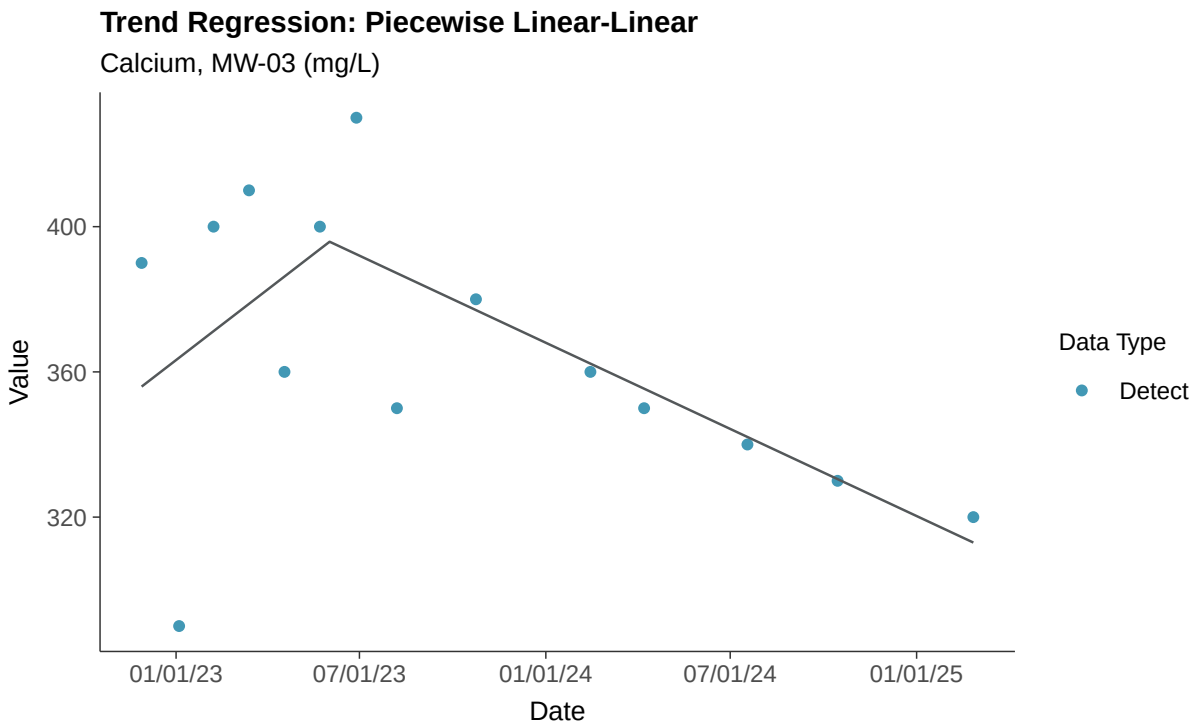
ID: 13_2_3_107





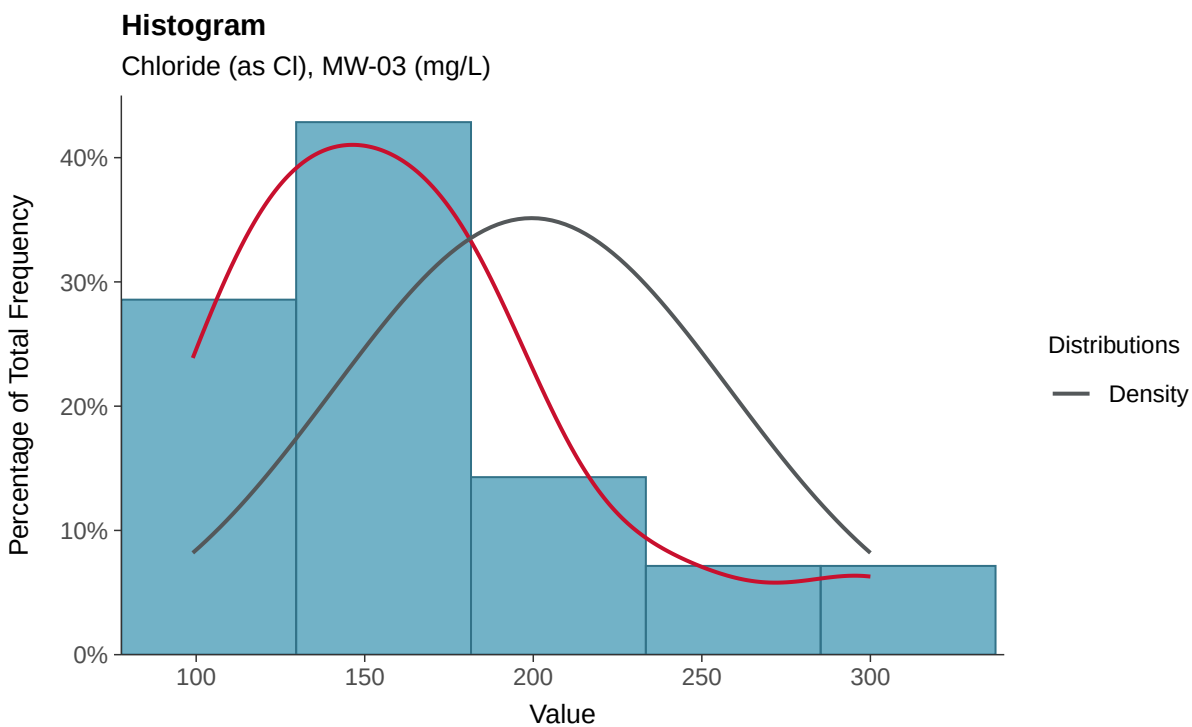
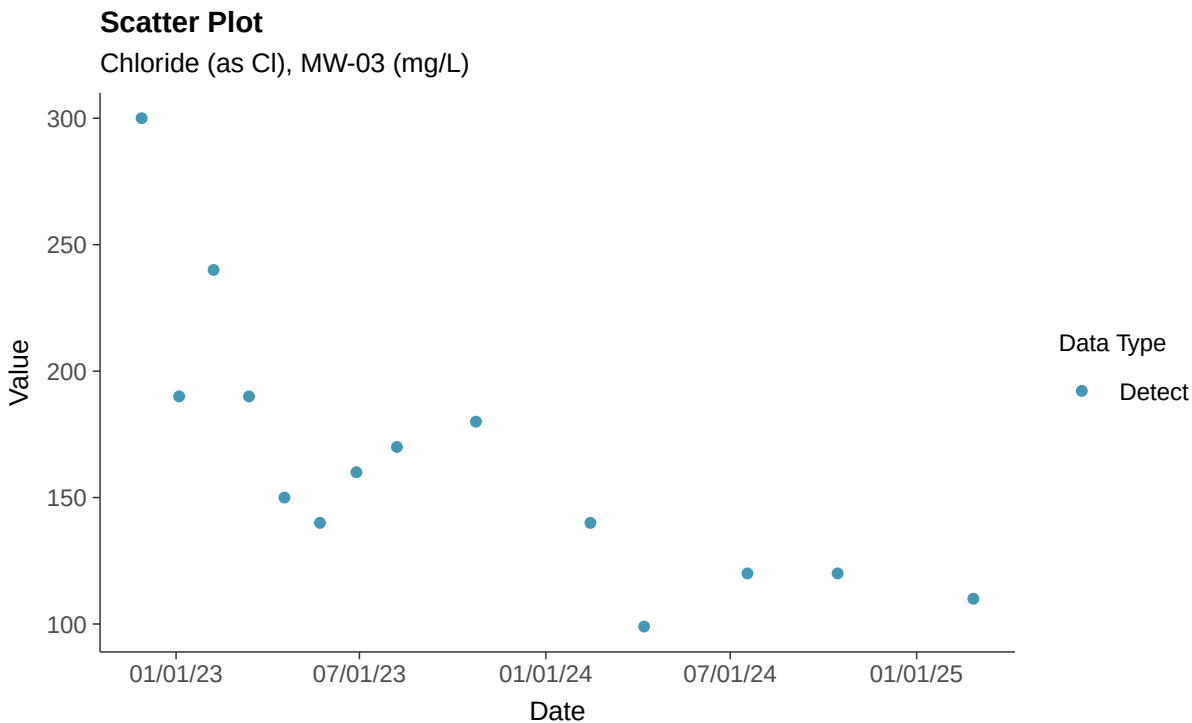


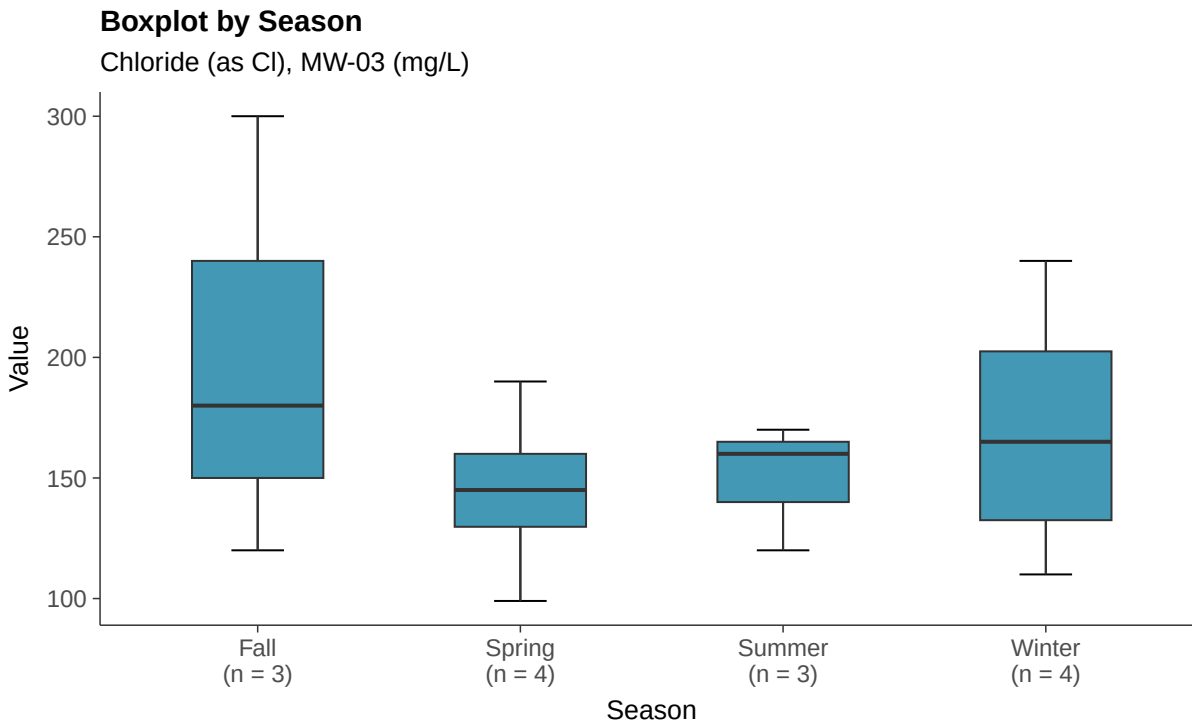
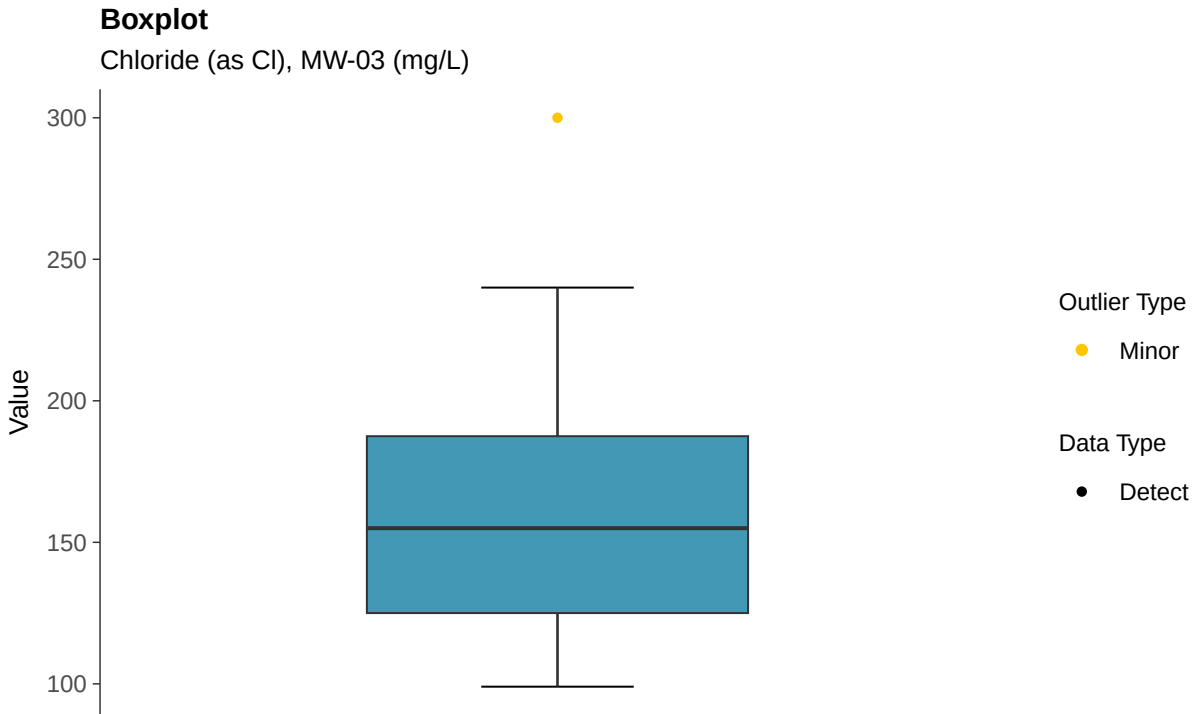


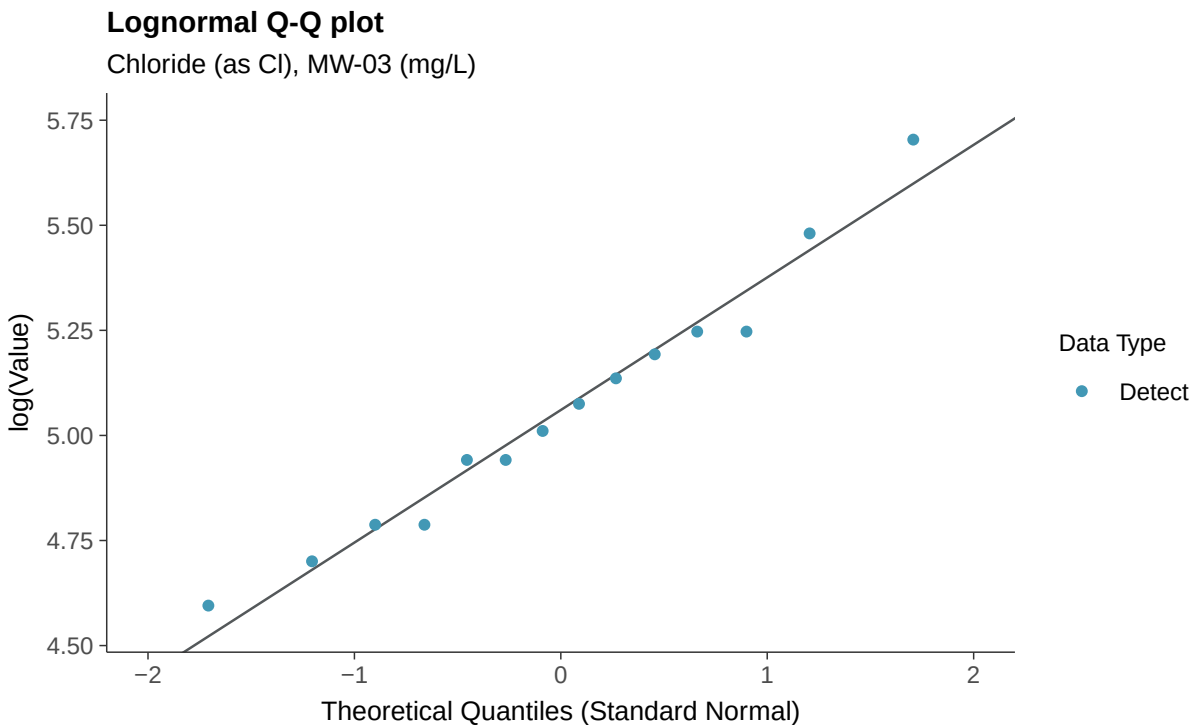
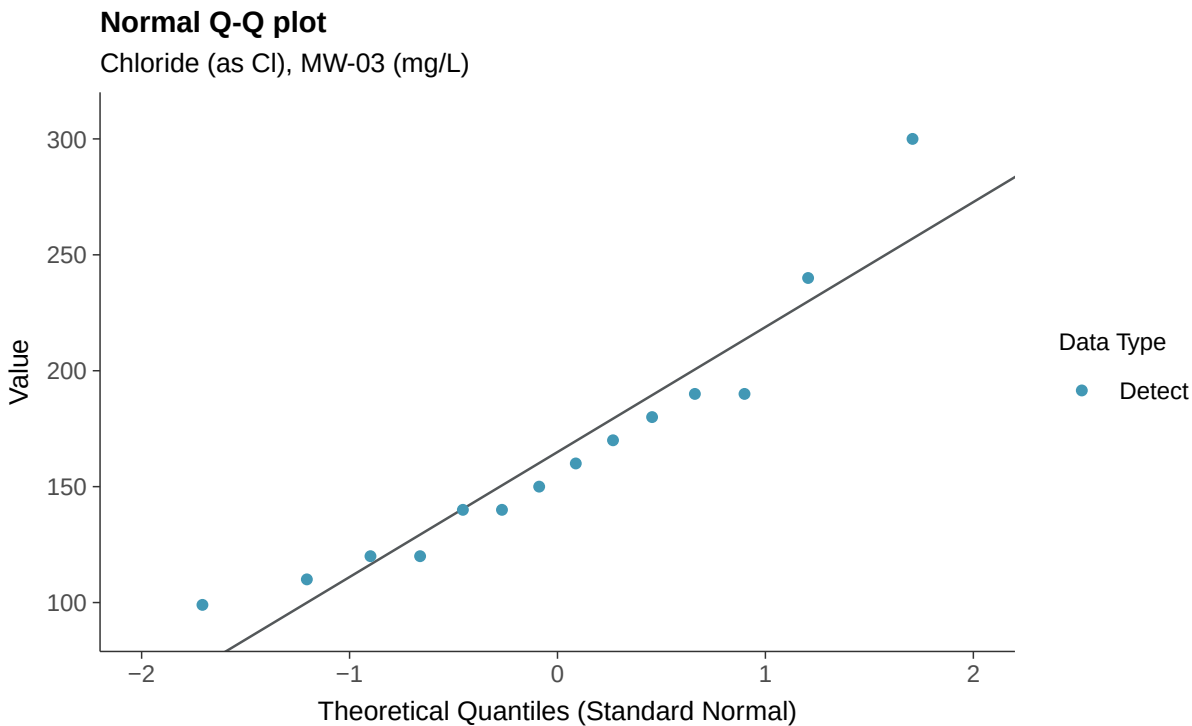


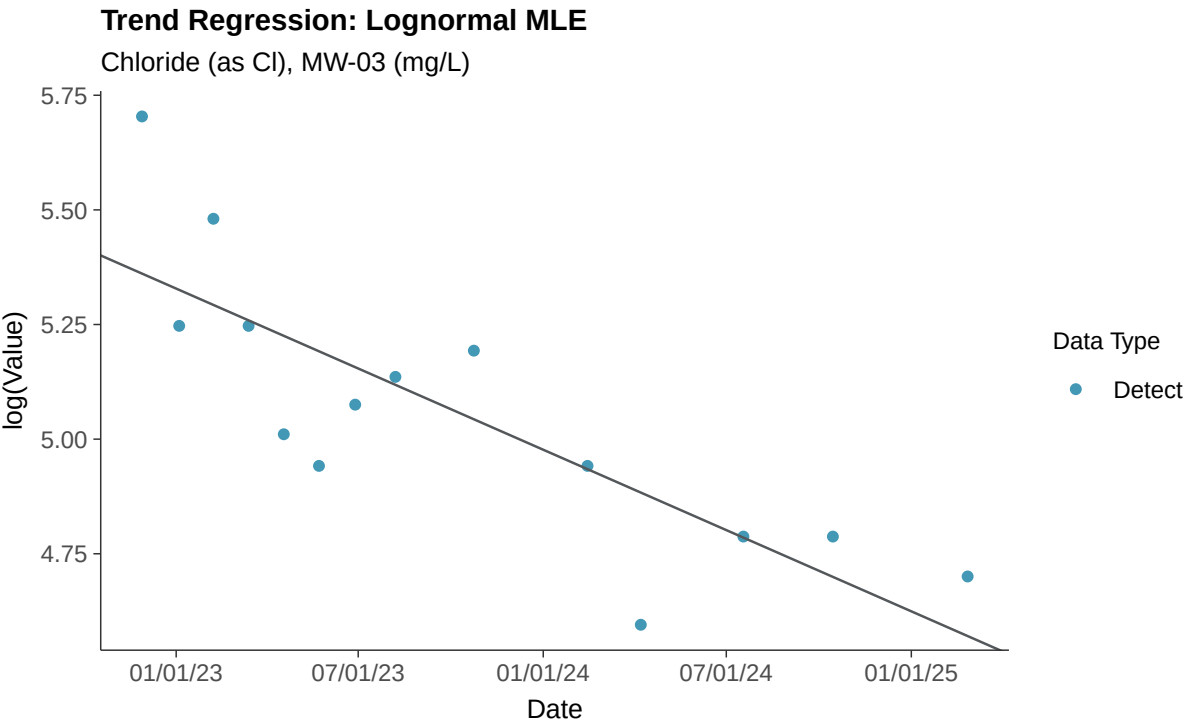
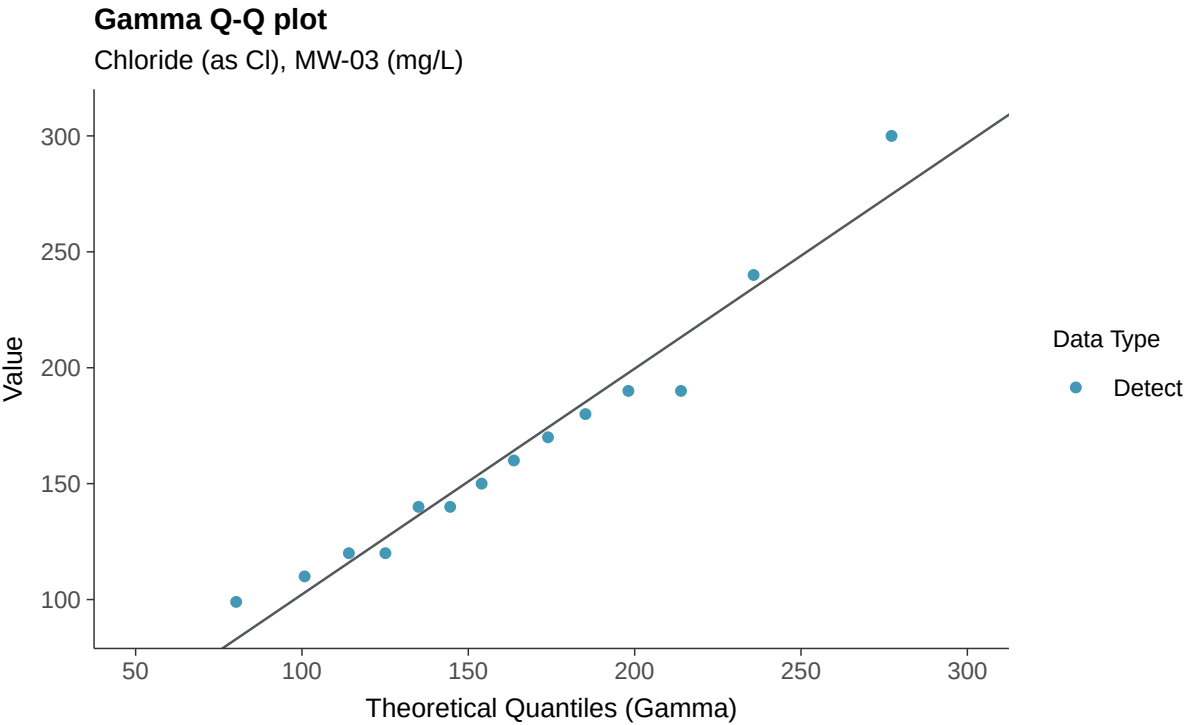
Appendix III: Chloride (as Cl), MW-03

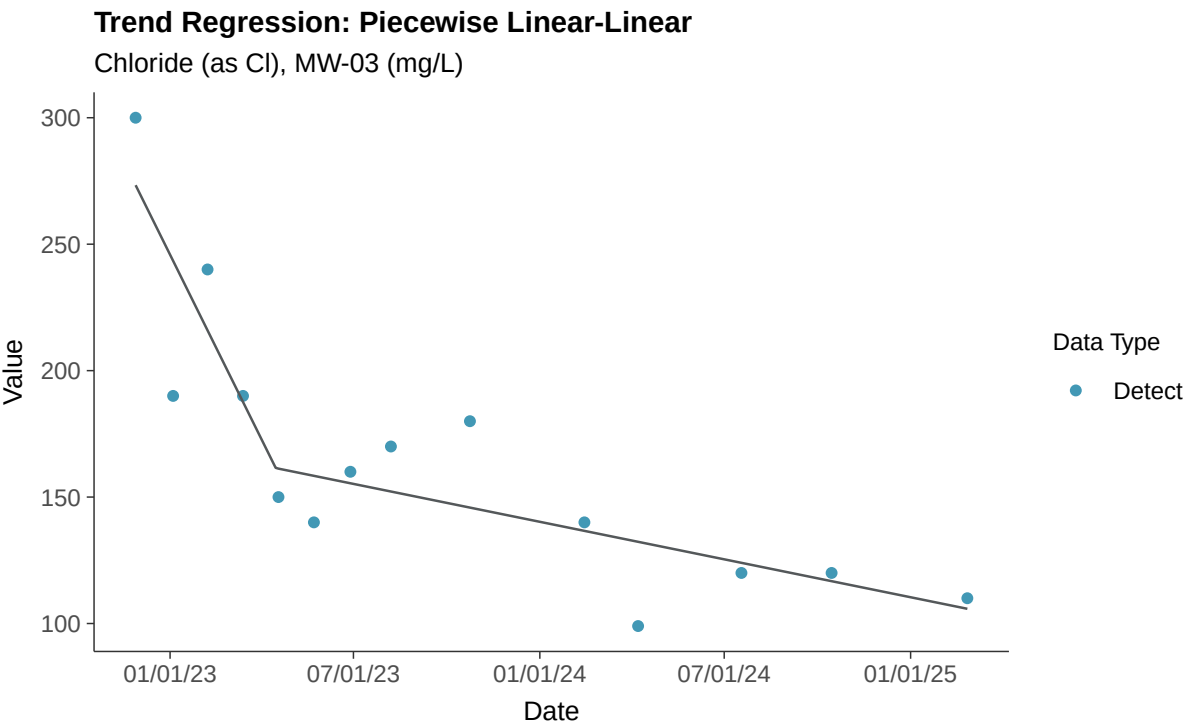
ID: 13_2_3_108







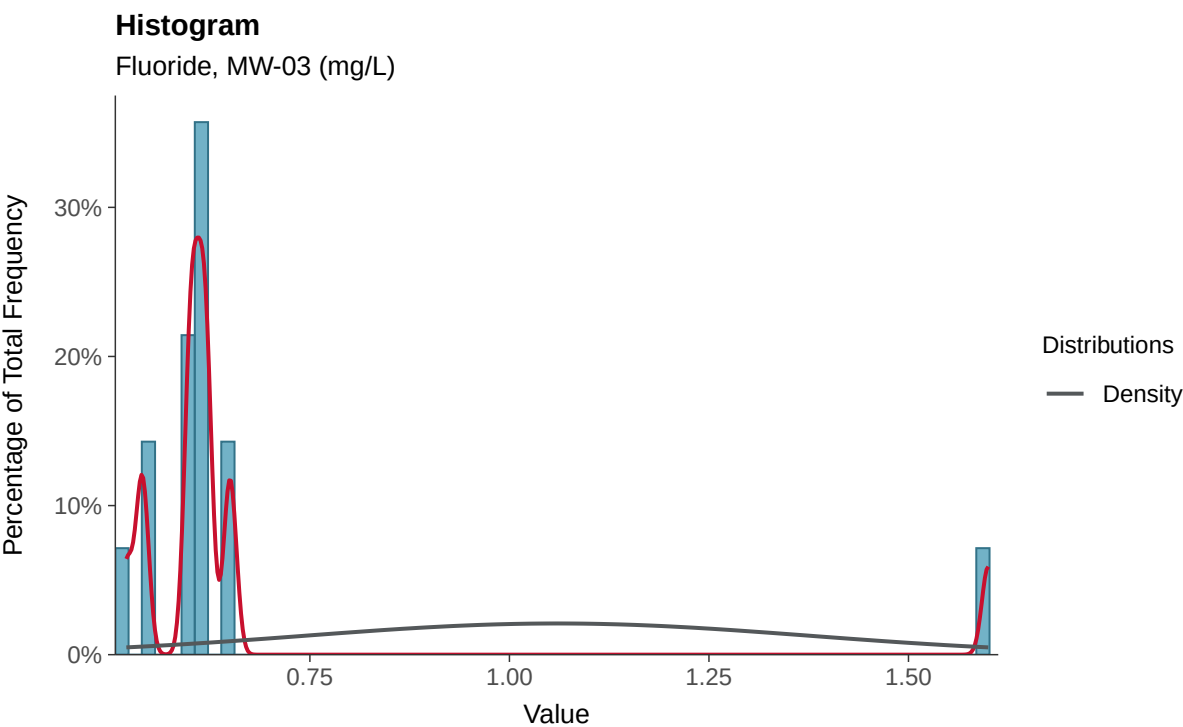
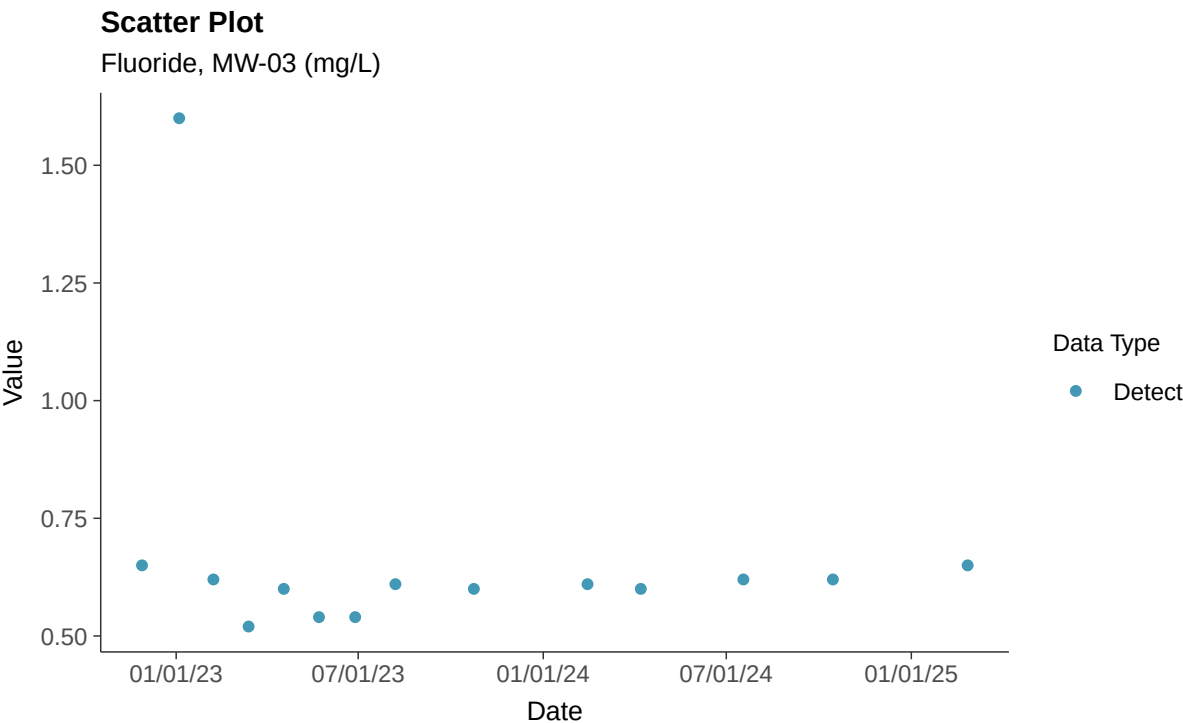


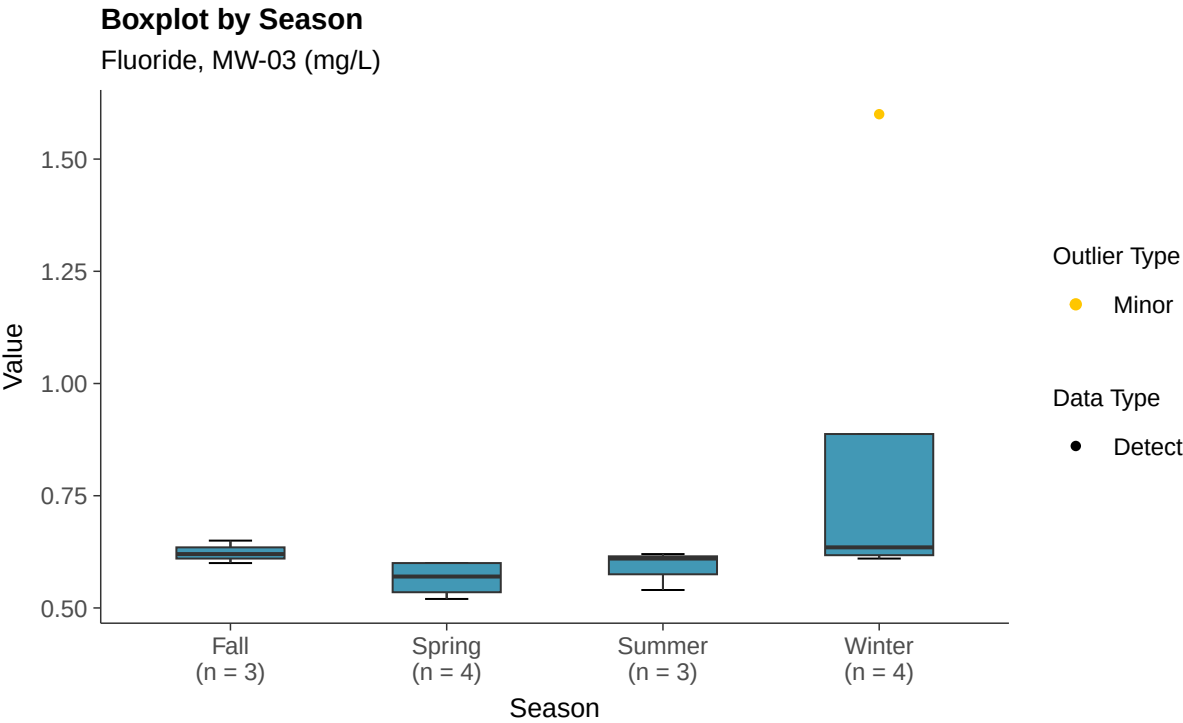
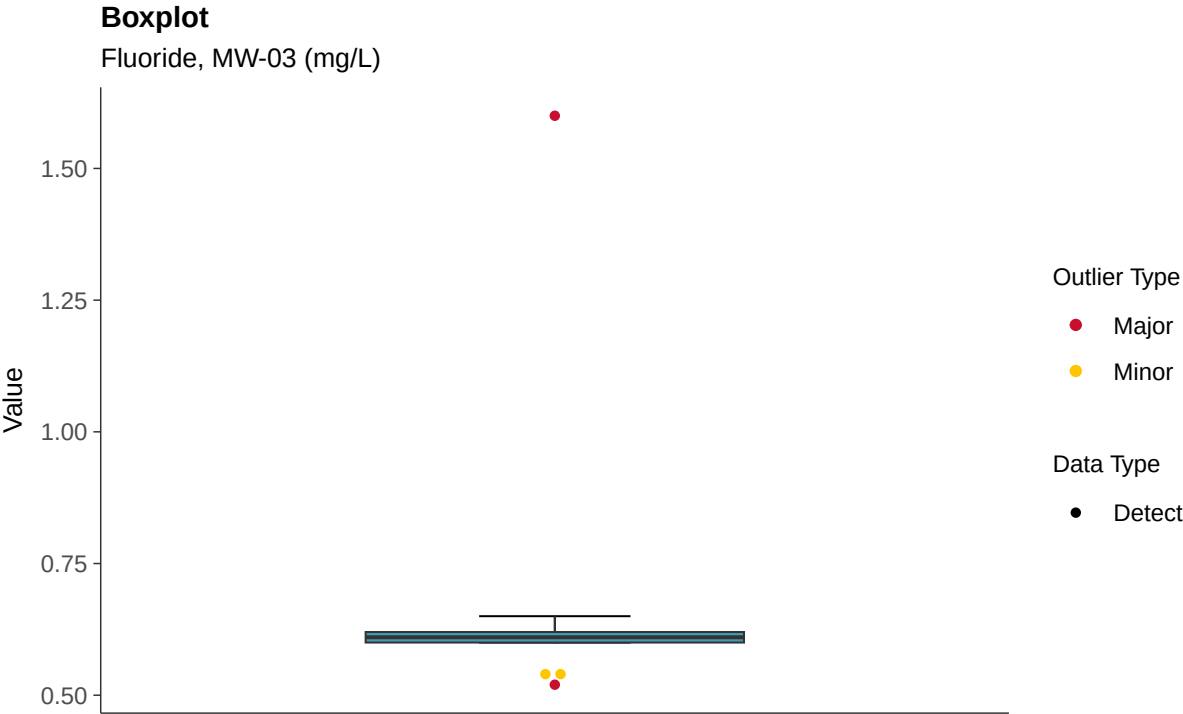


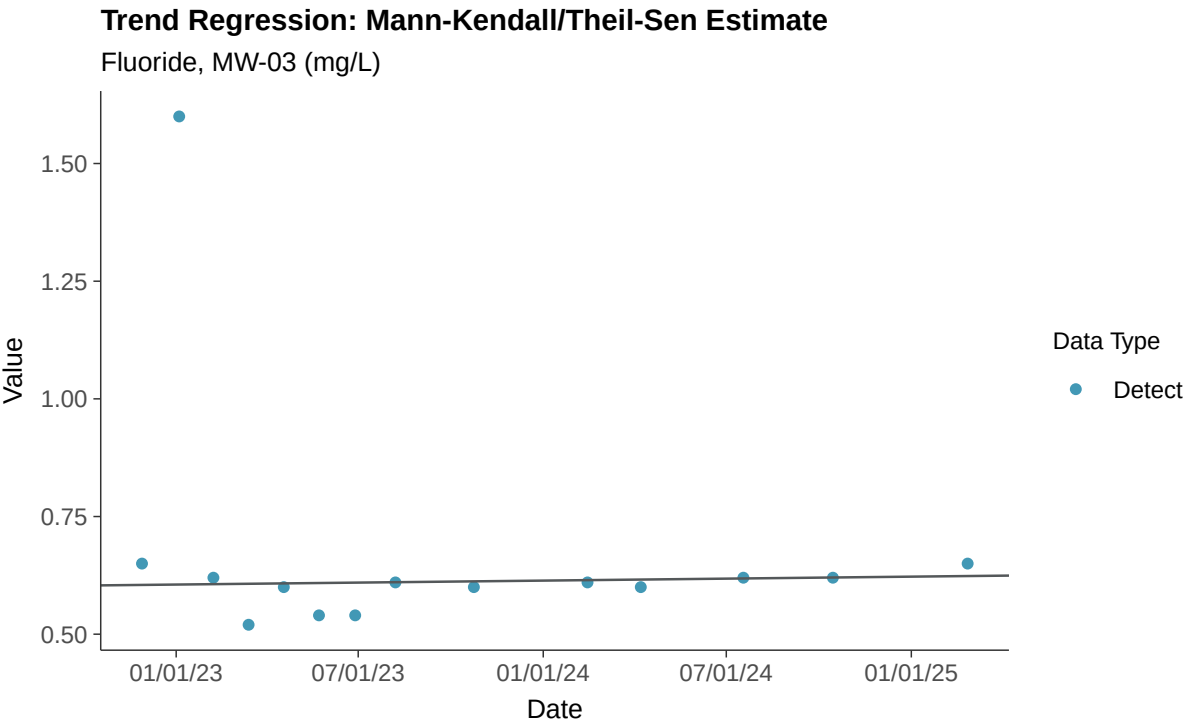
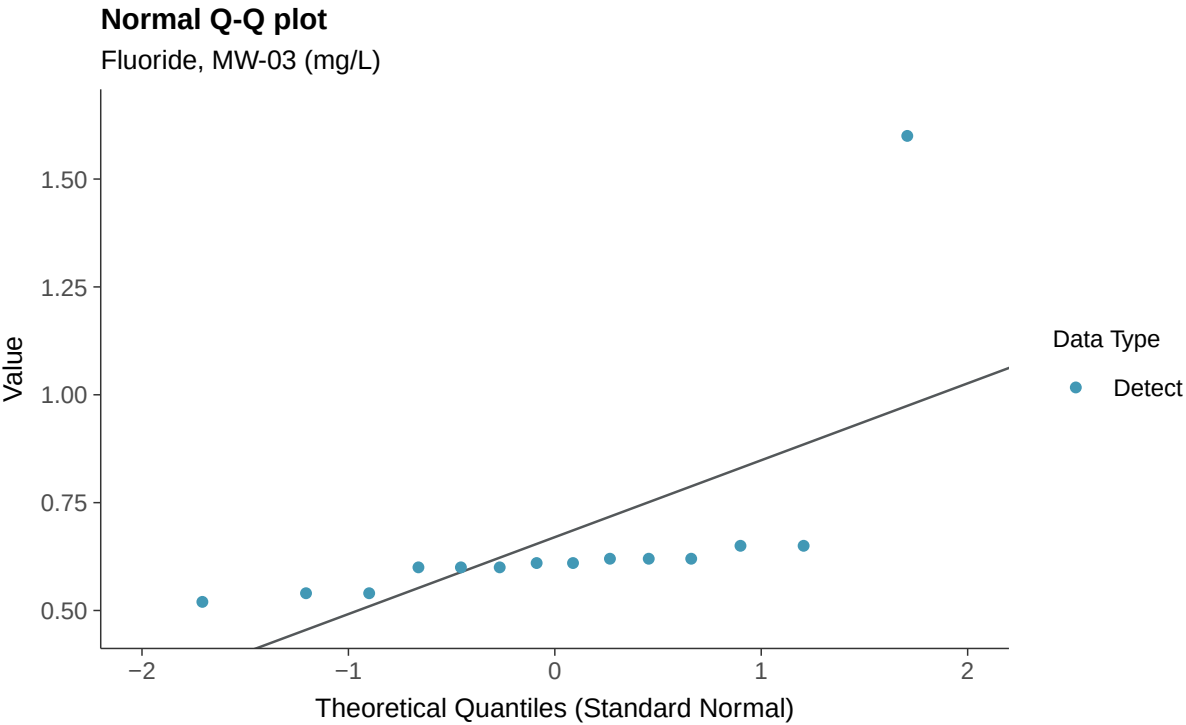


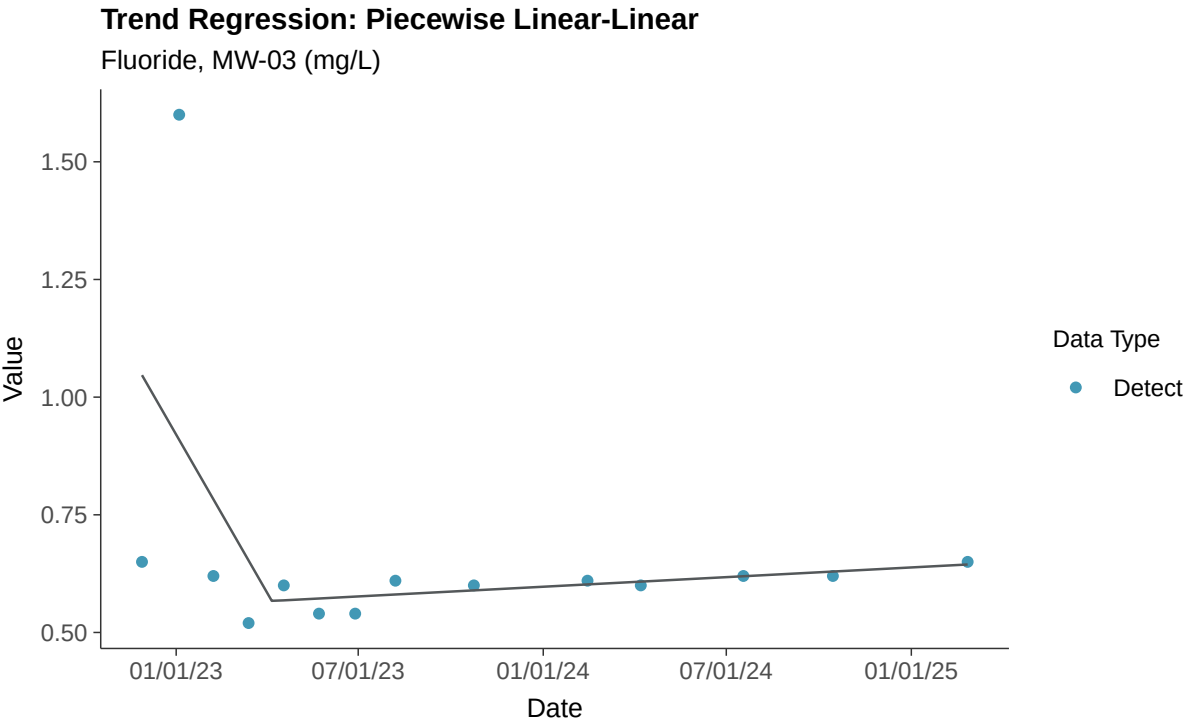
Appendix III: Fluoride, MW-03

ID: 13_2_3_112





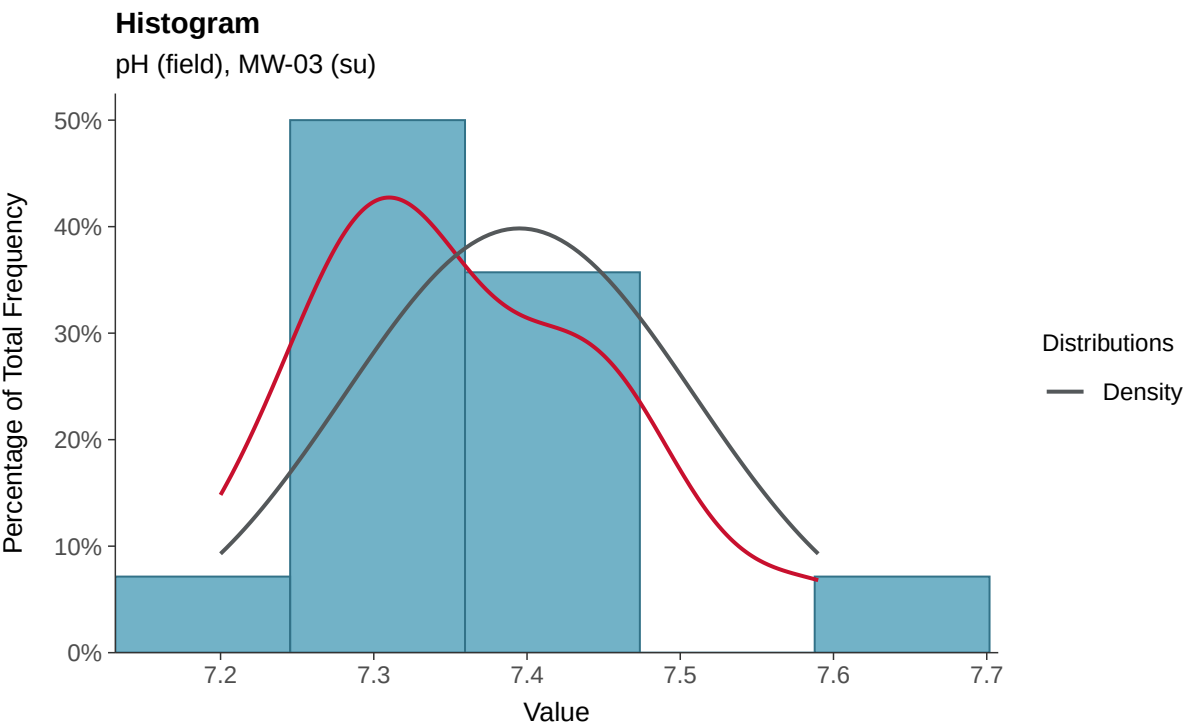
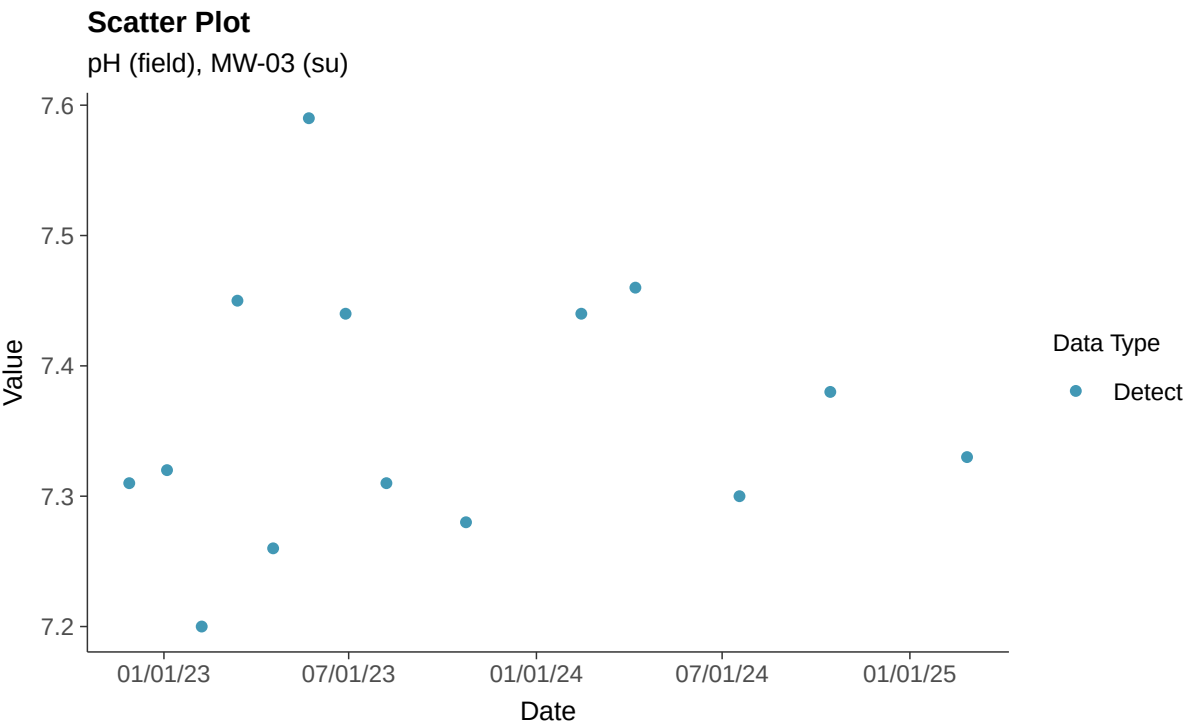


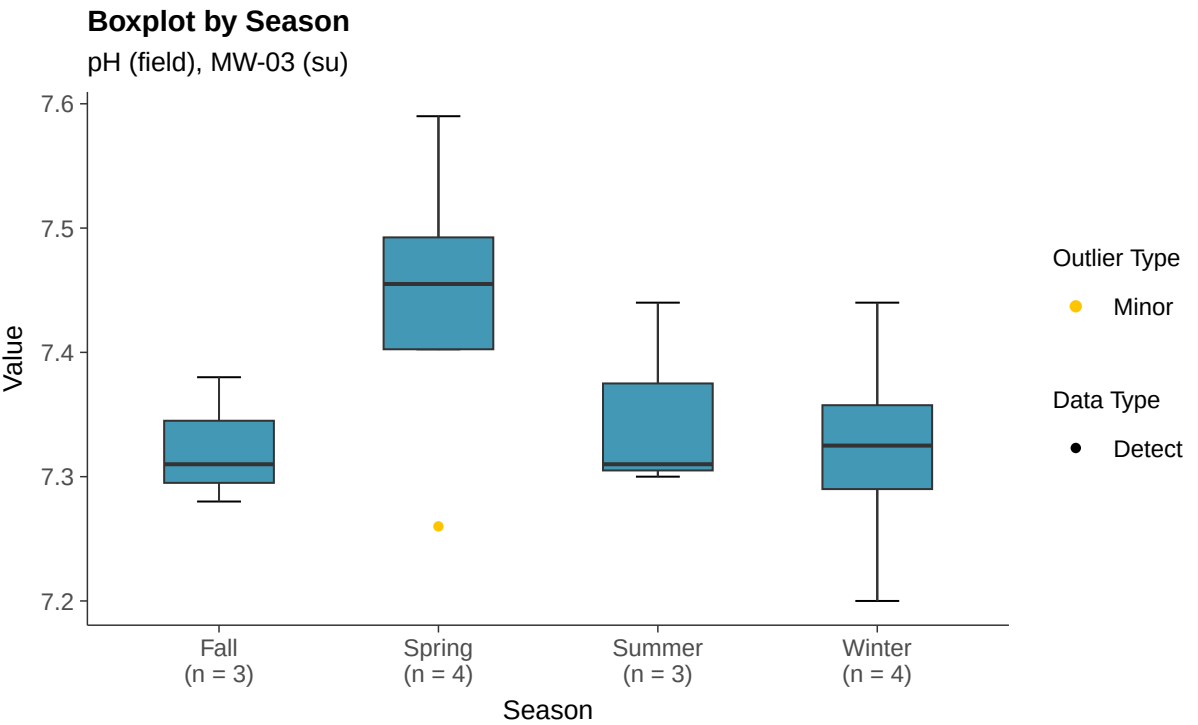
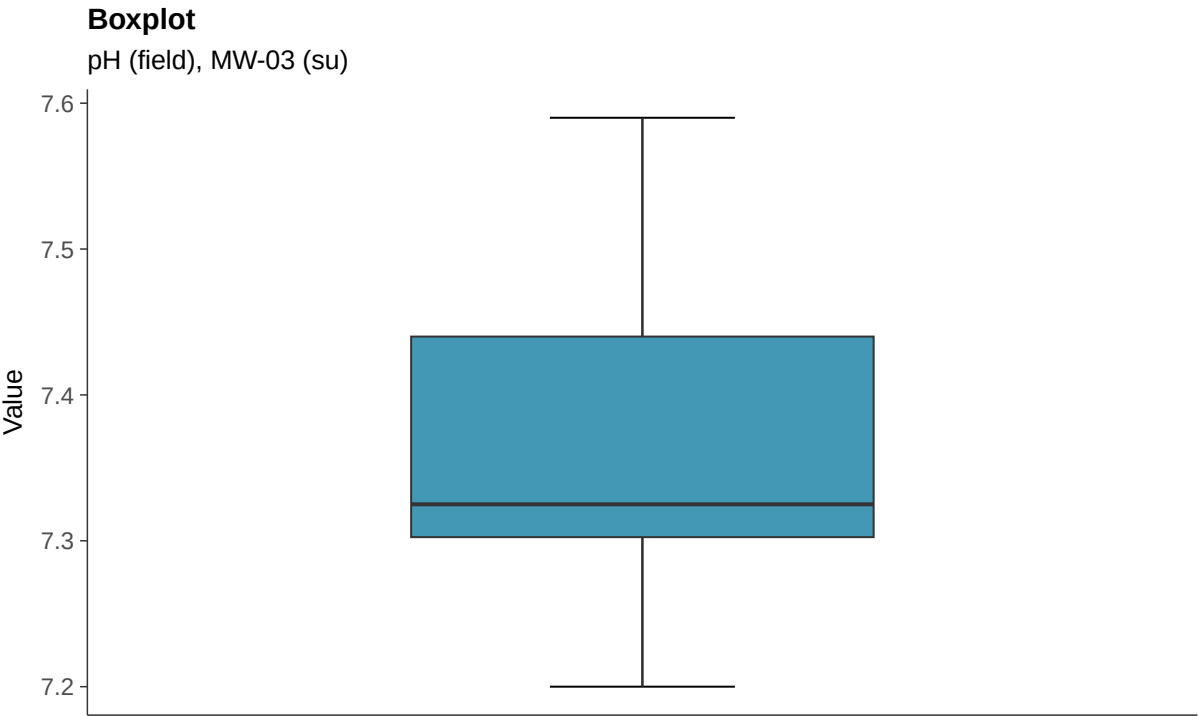


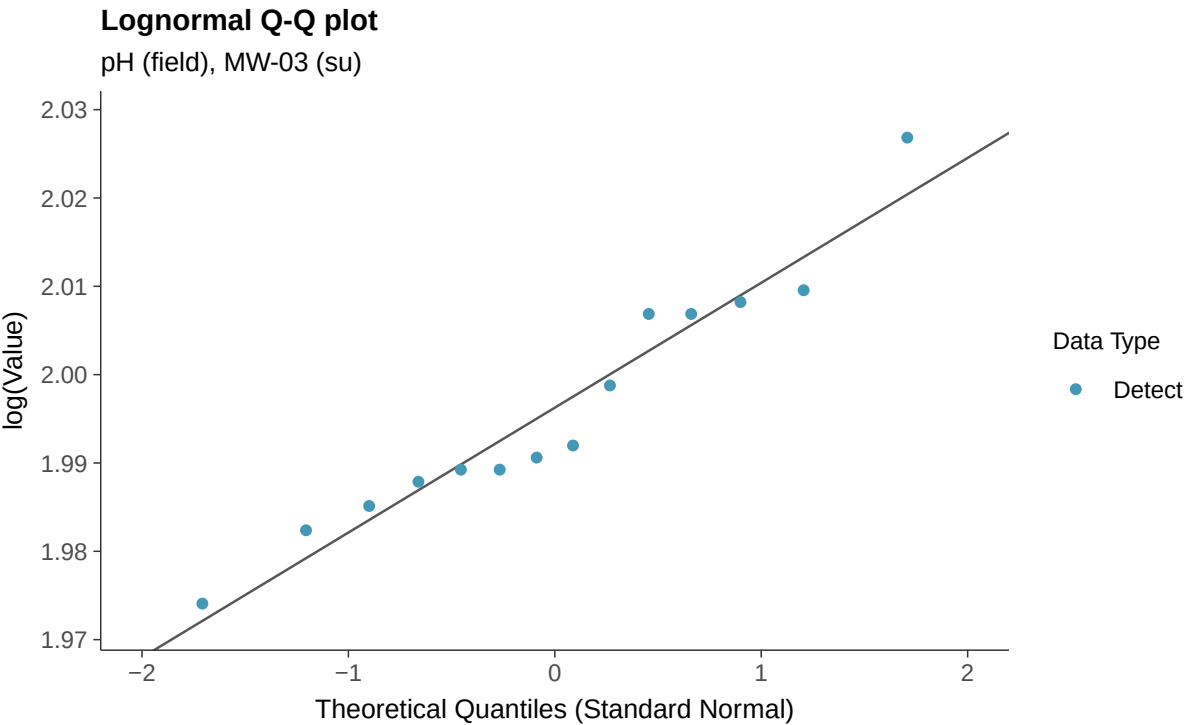
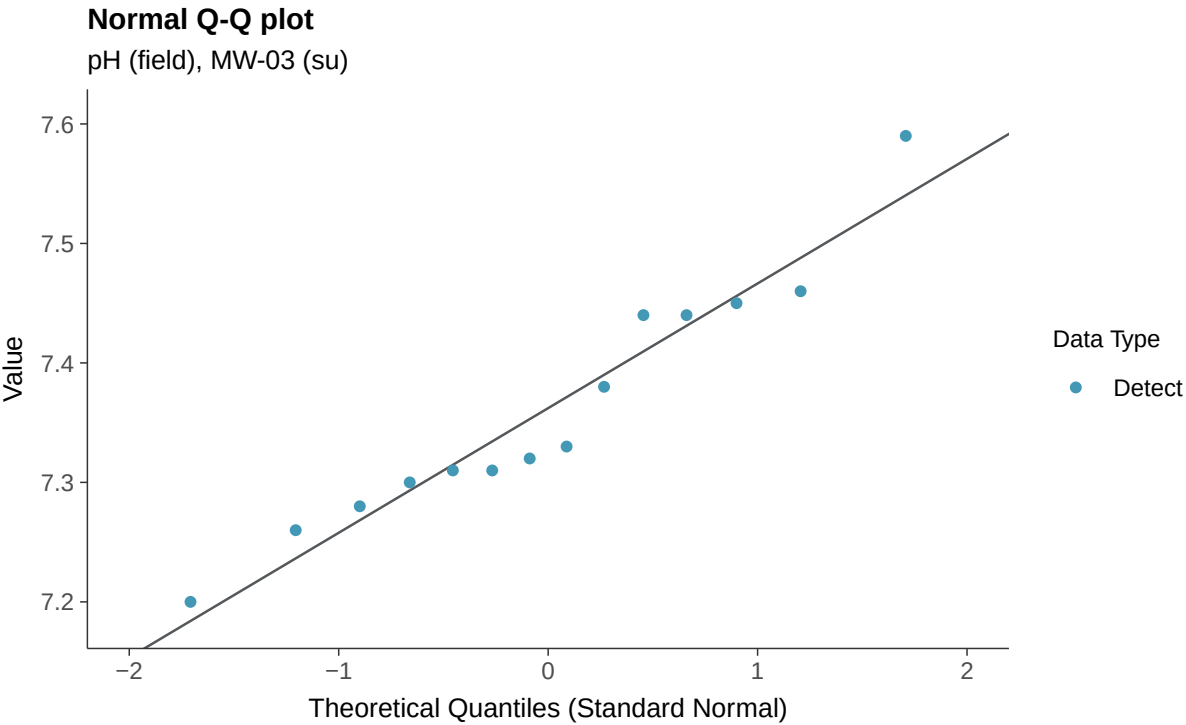


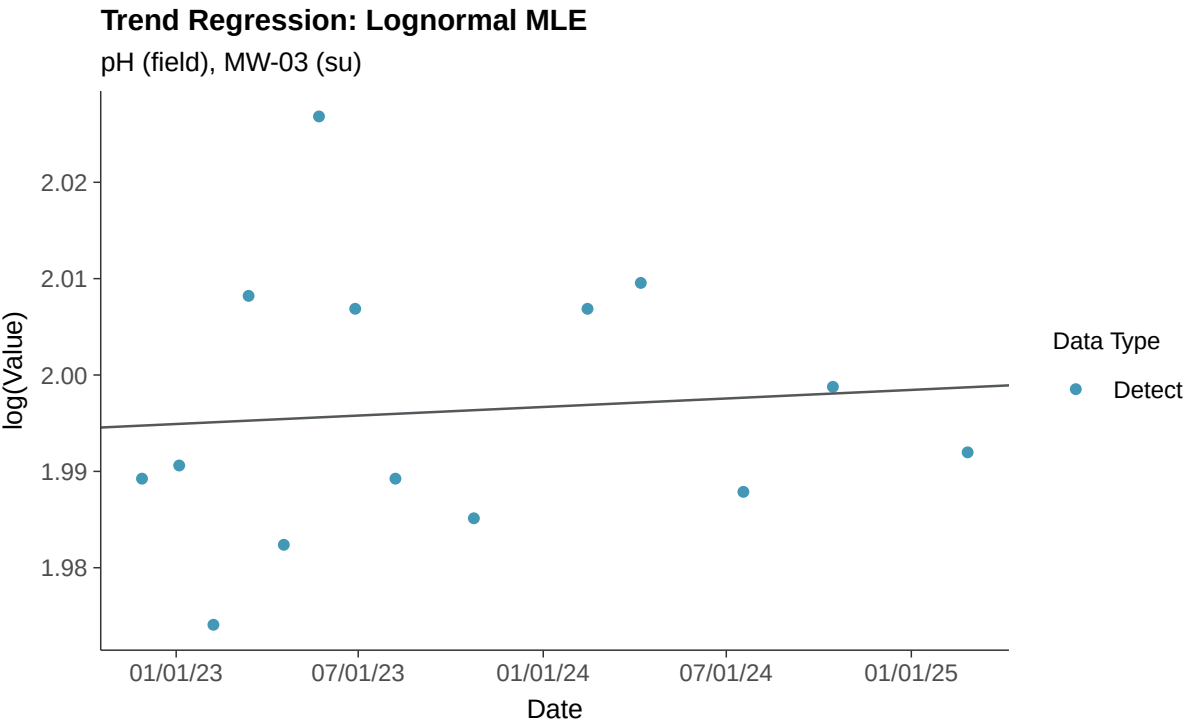
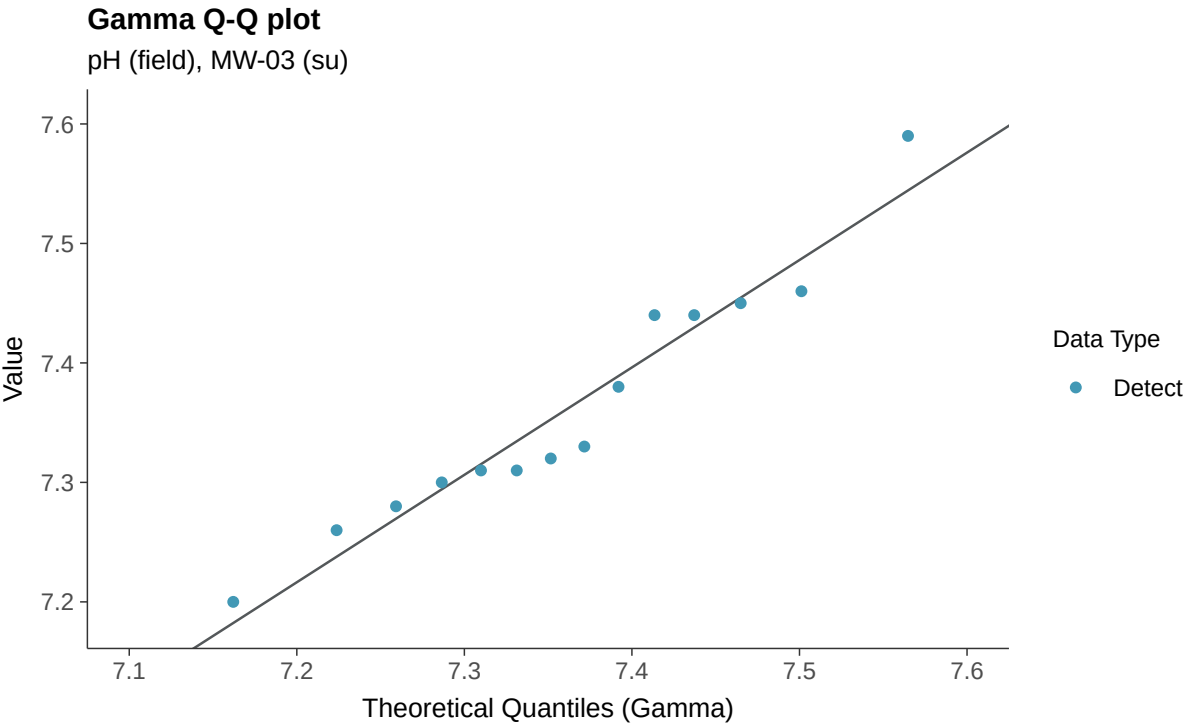
Appendix III: pH (field), MW-03

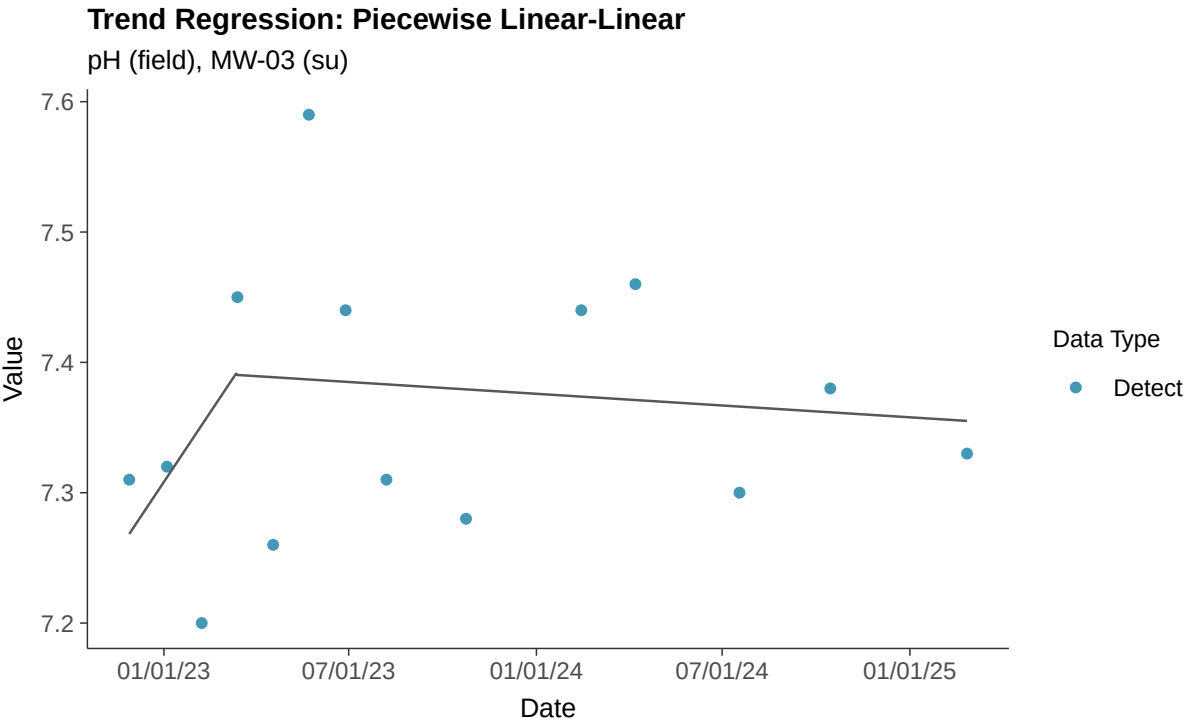
ID: 13_2_3_120







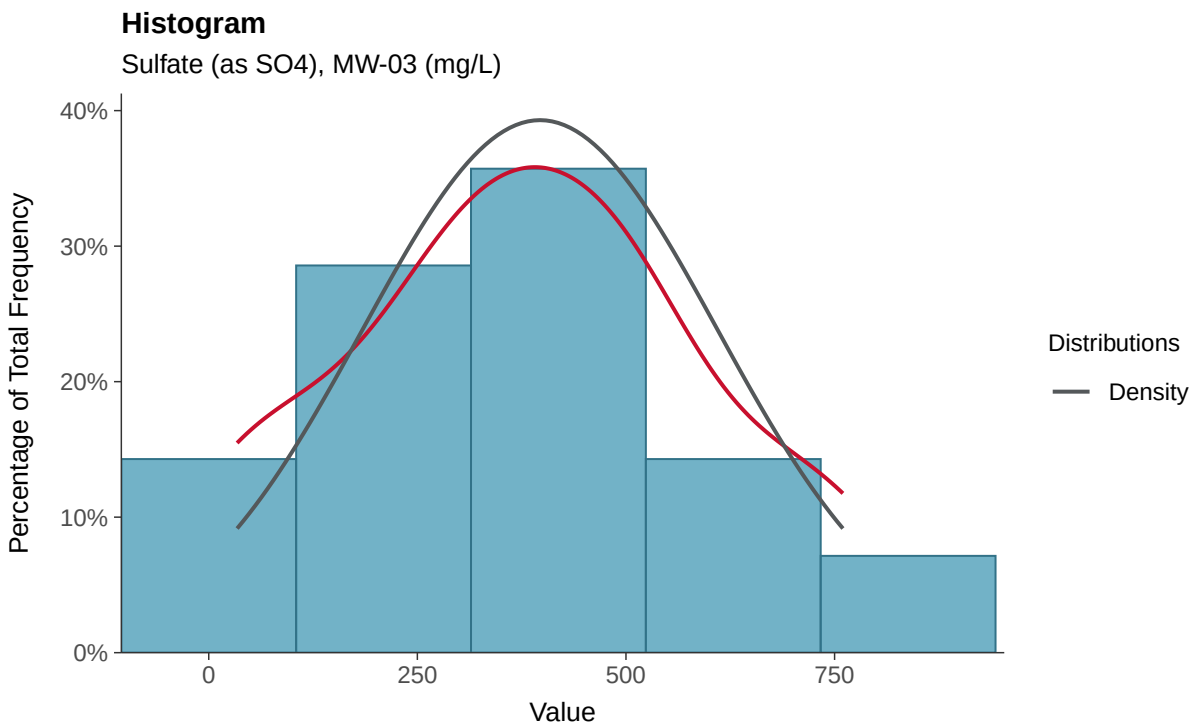
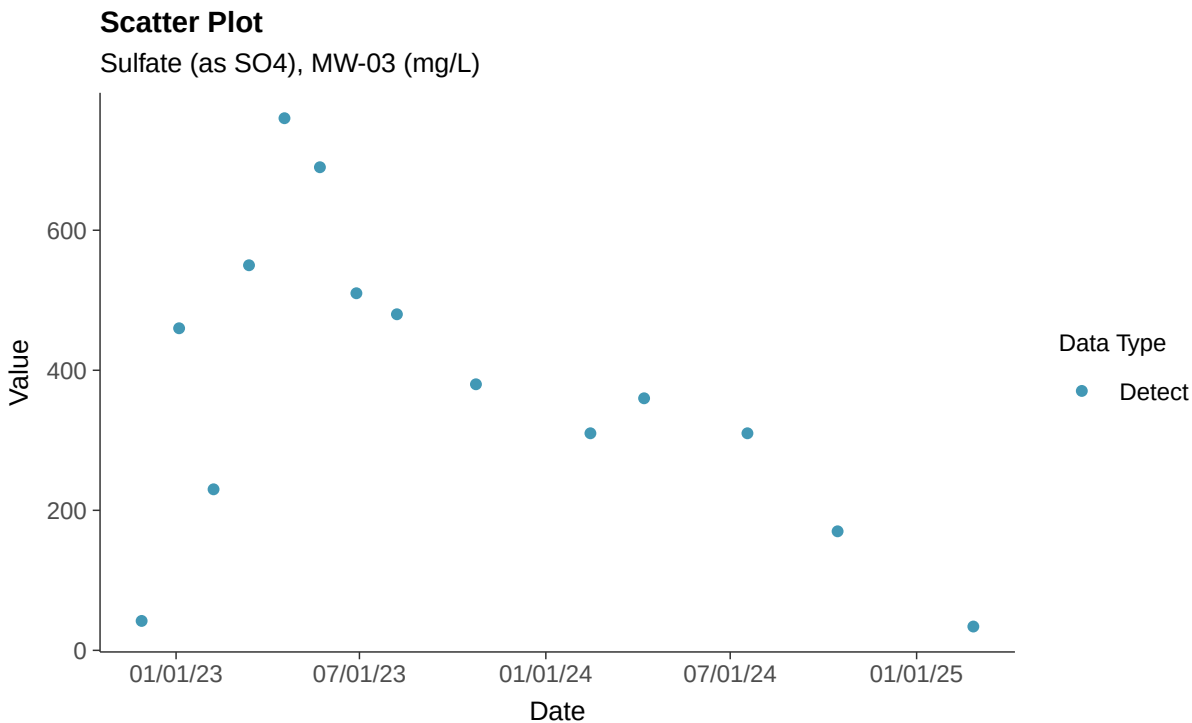


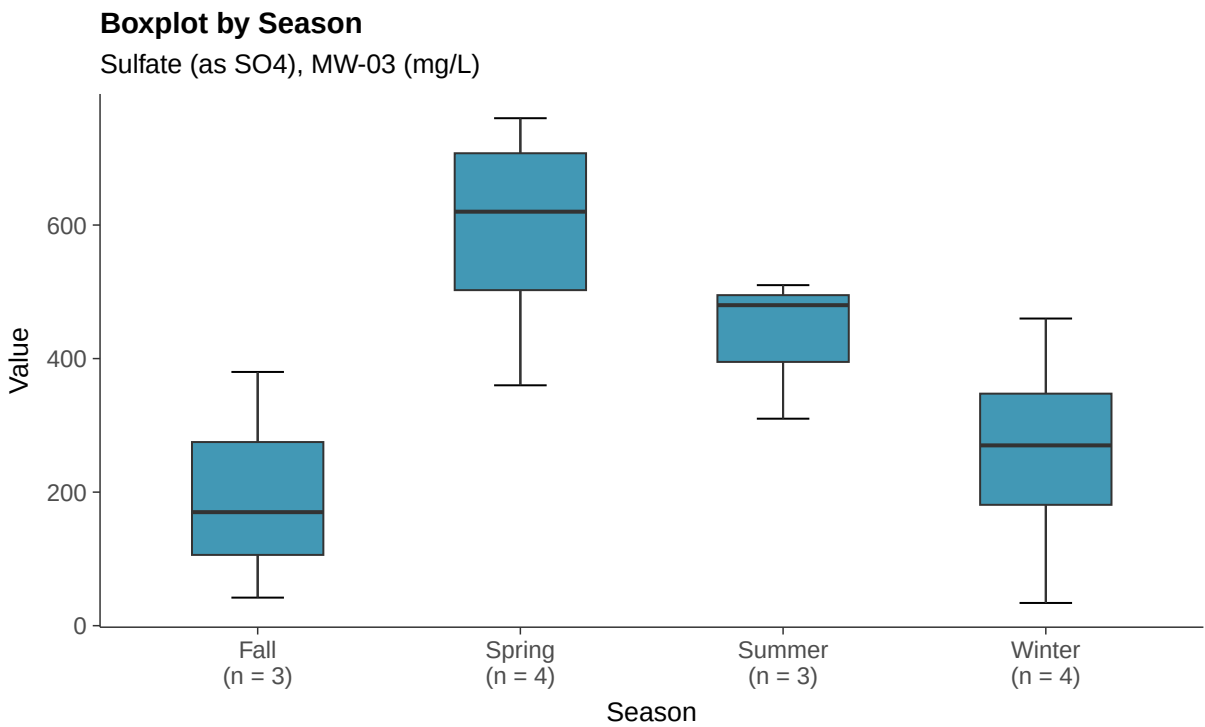
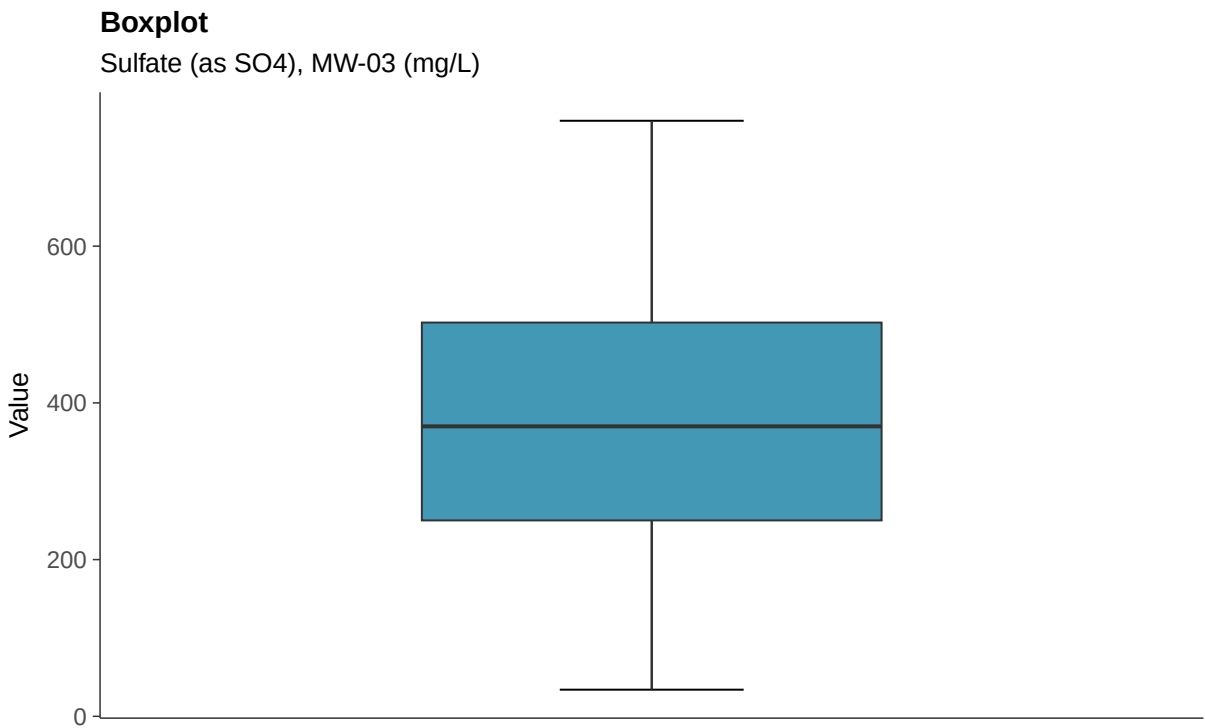


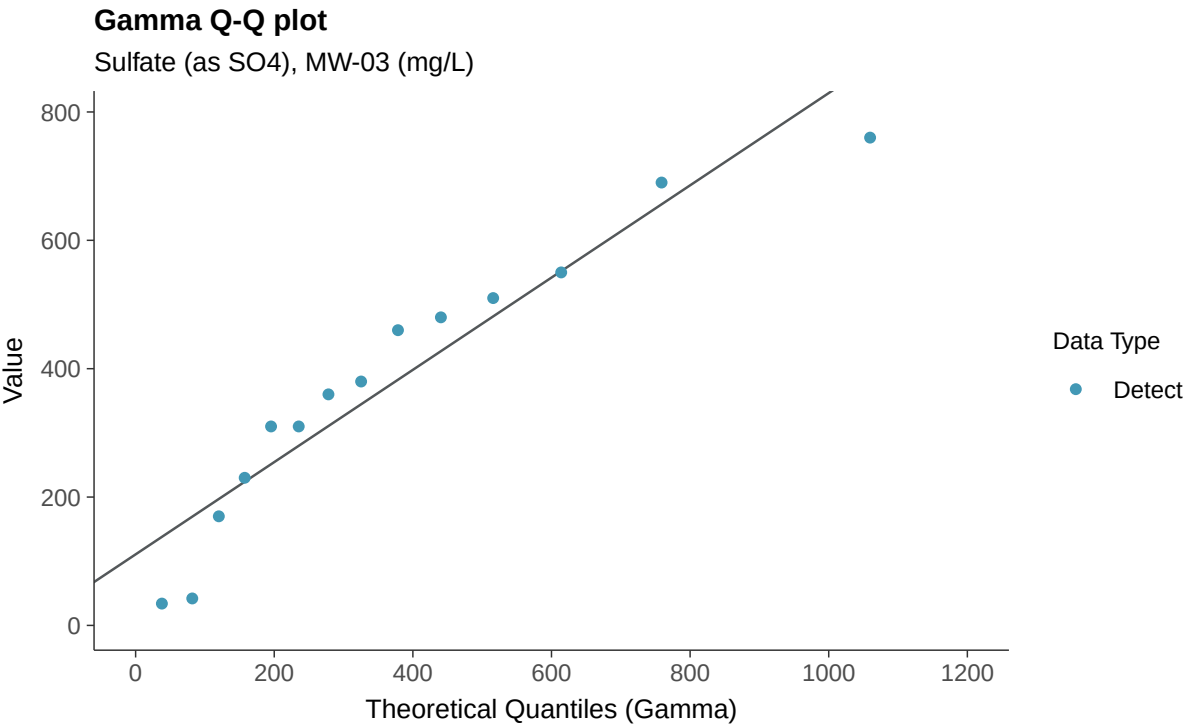
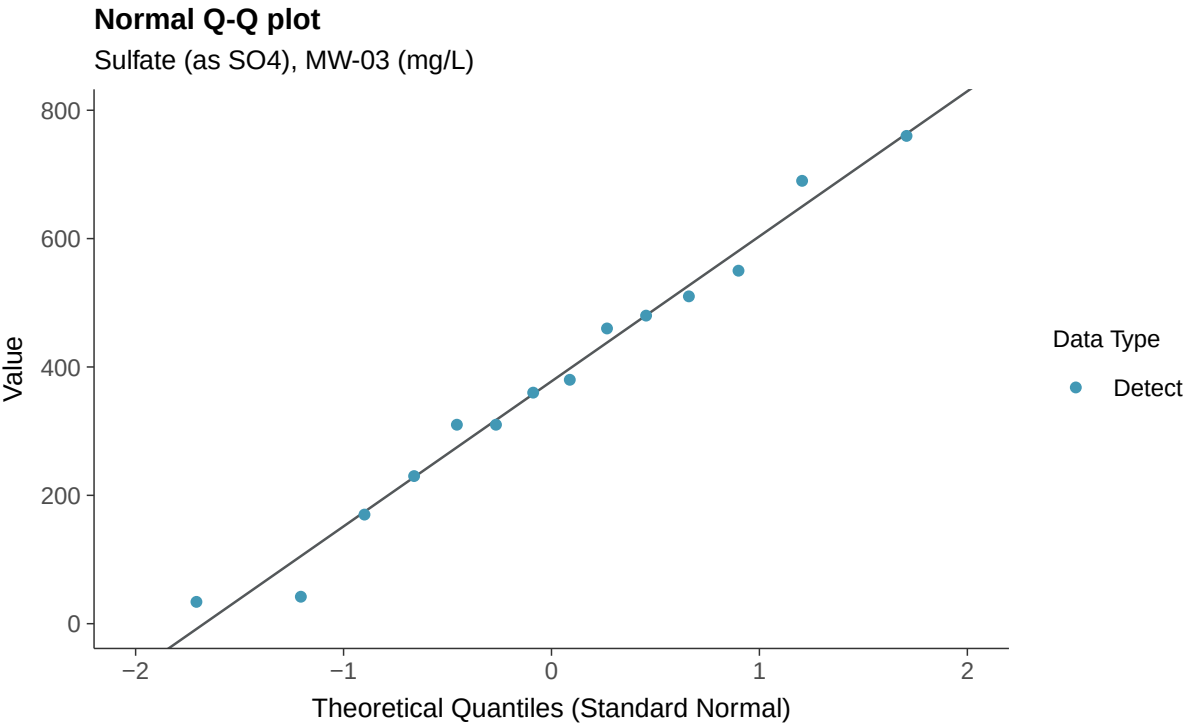


Appendix III: Sulfate (as SO₄), MW-03

ID: 13_2_3_124



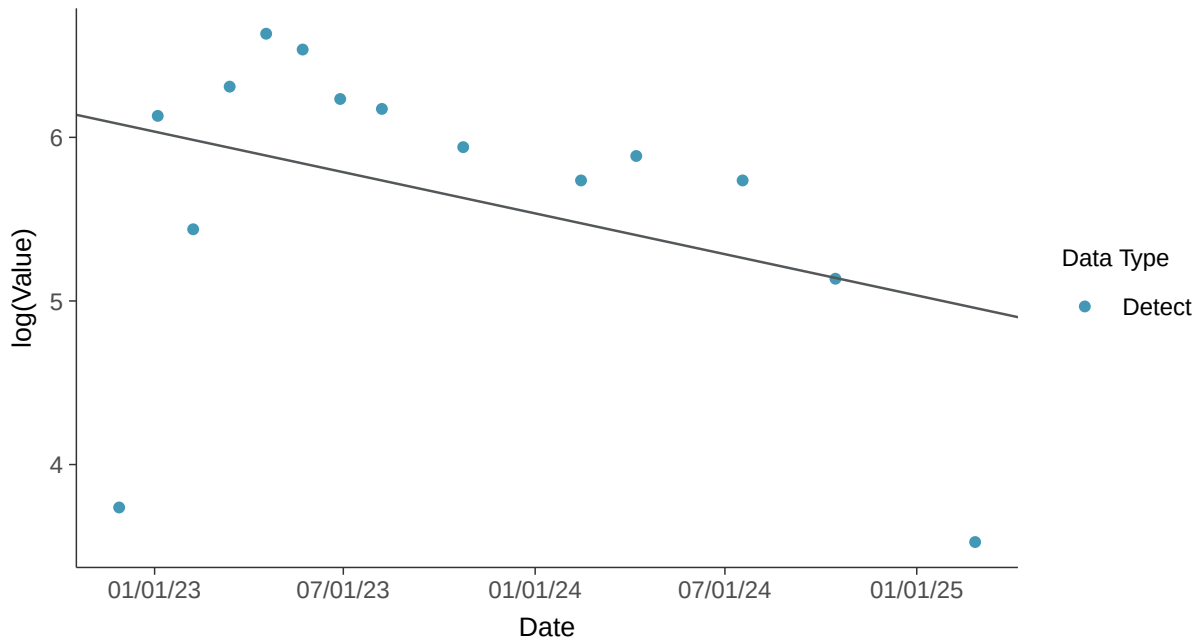






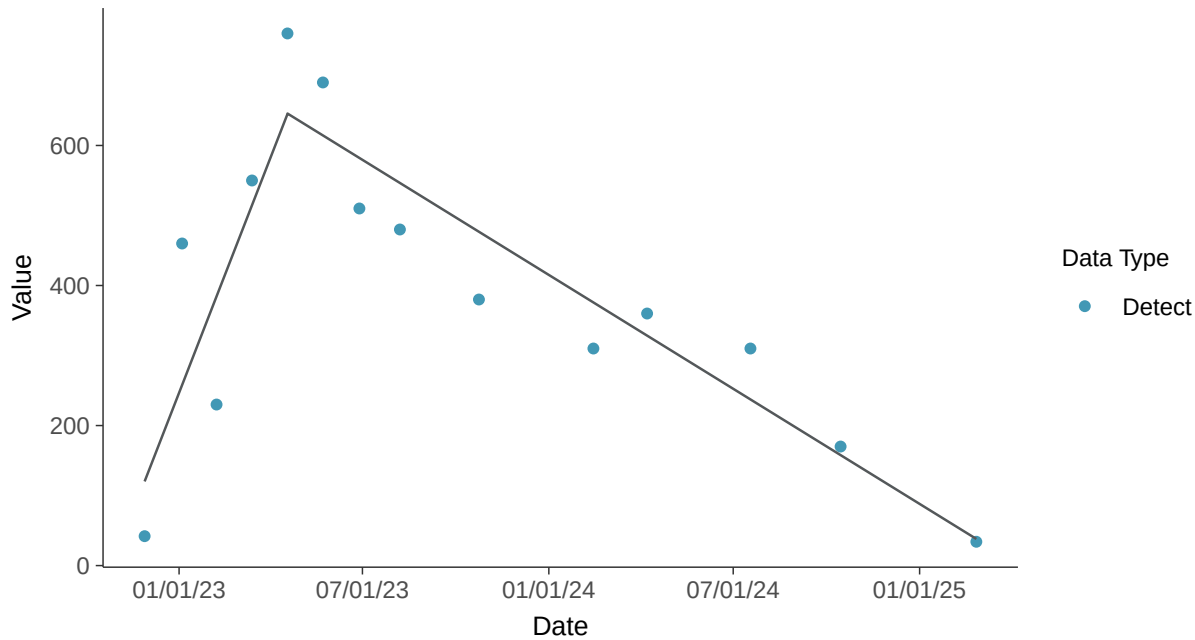
Trend Regression: Lognormal MLE

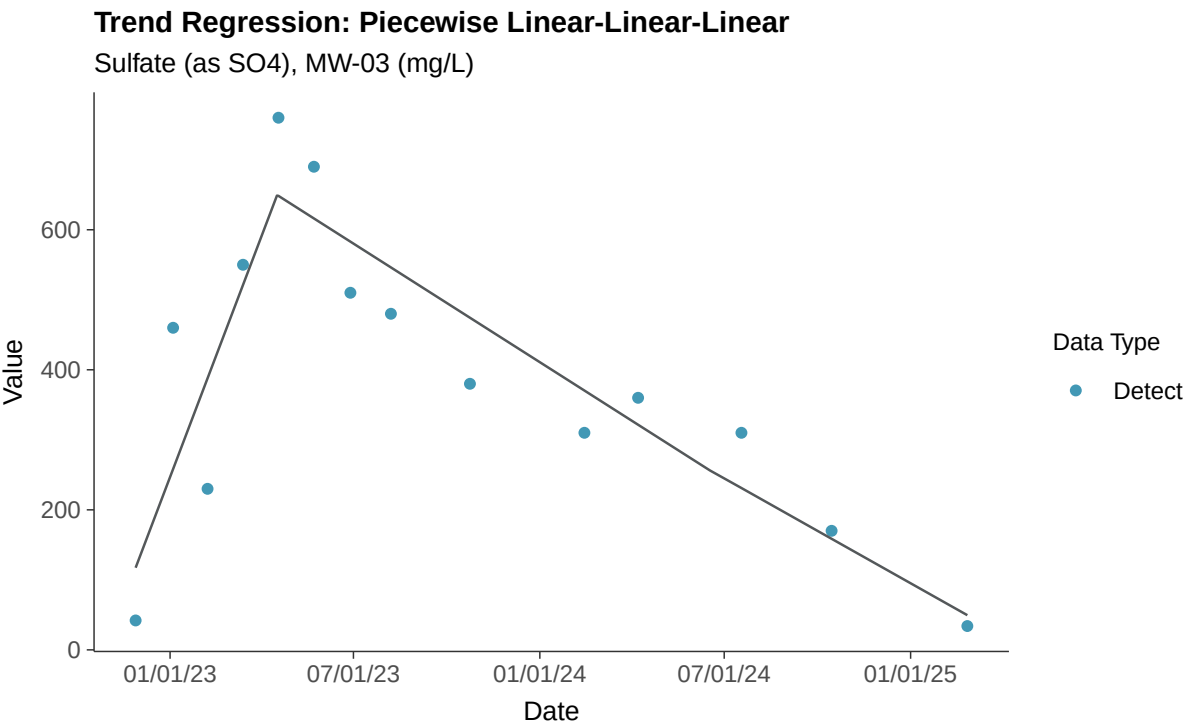
Sulfate (as SO₄), MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-03 (mg/L)

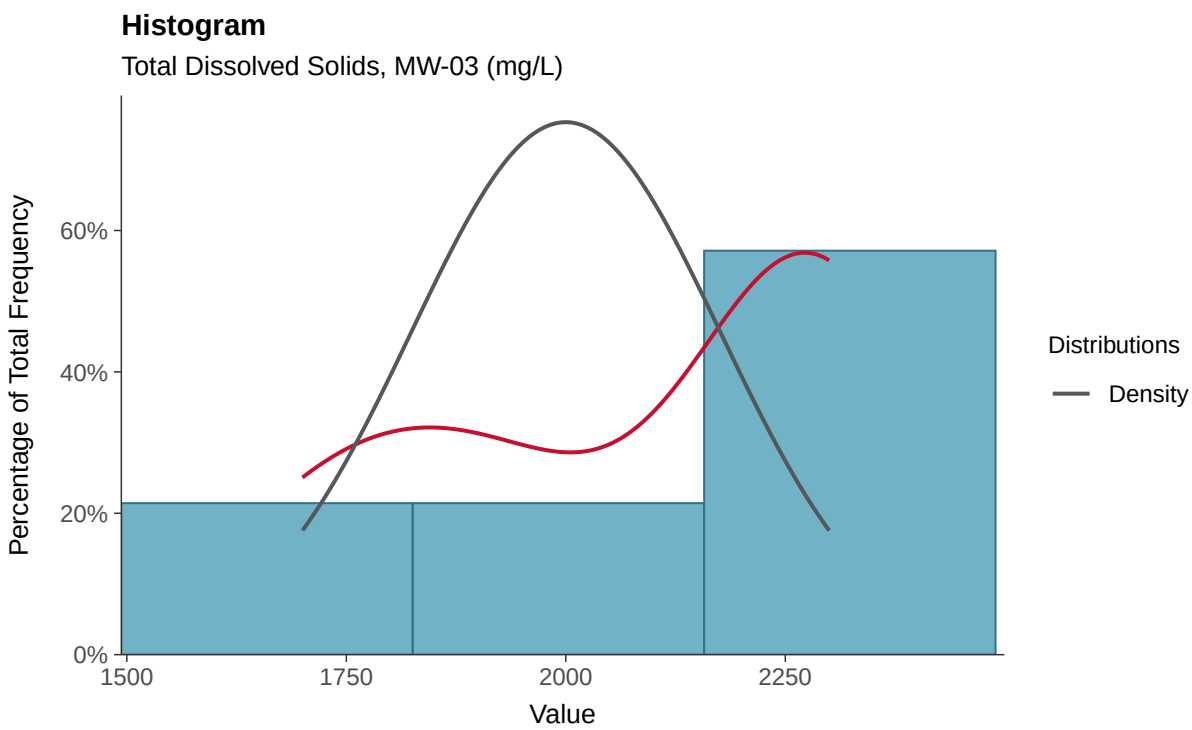
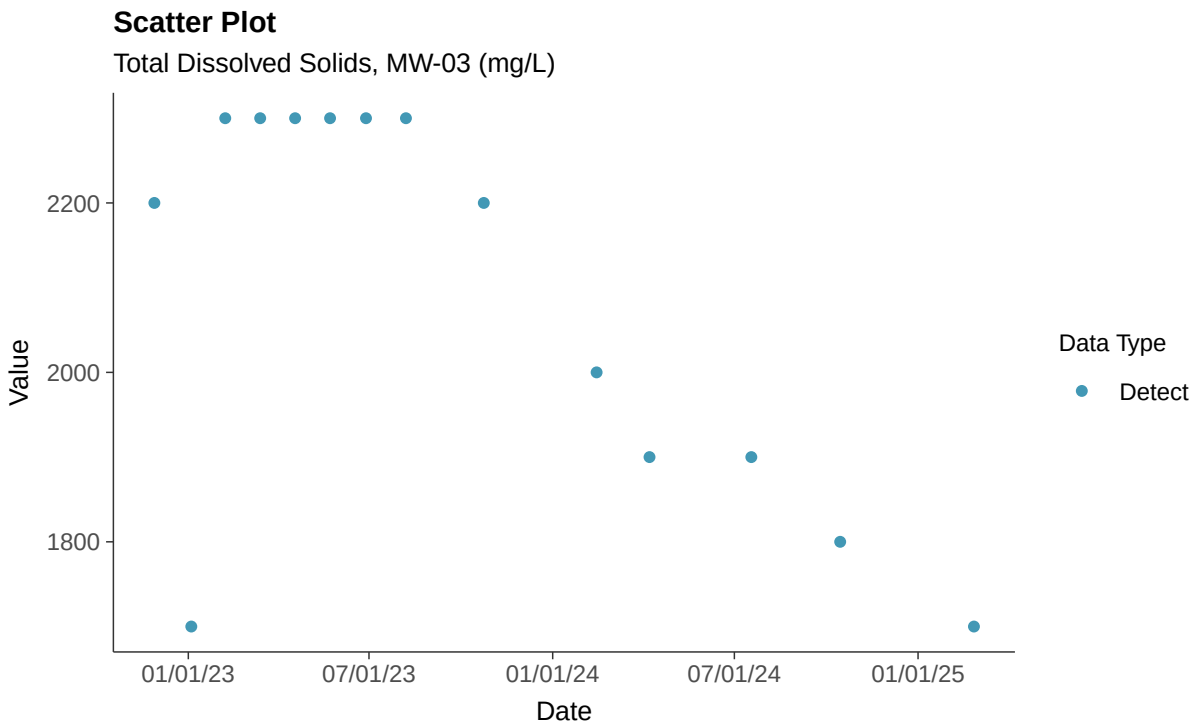


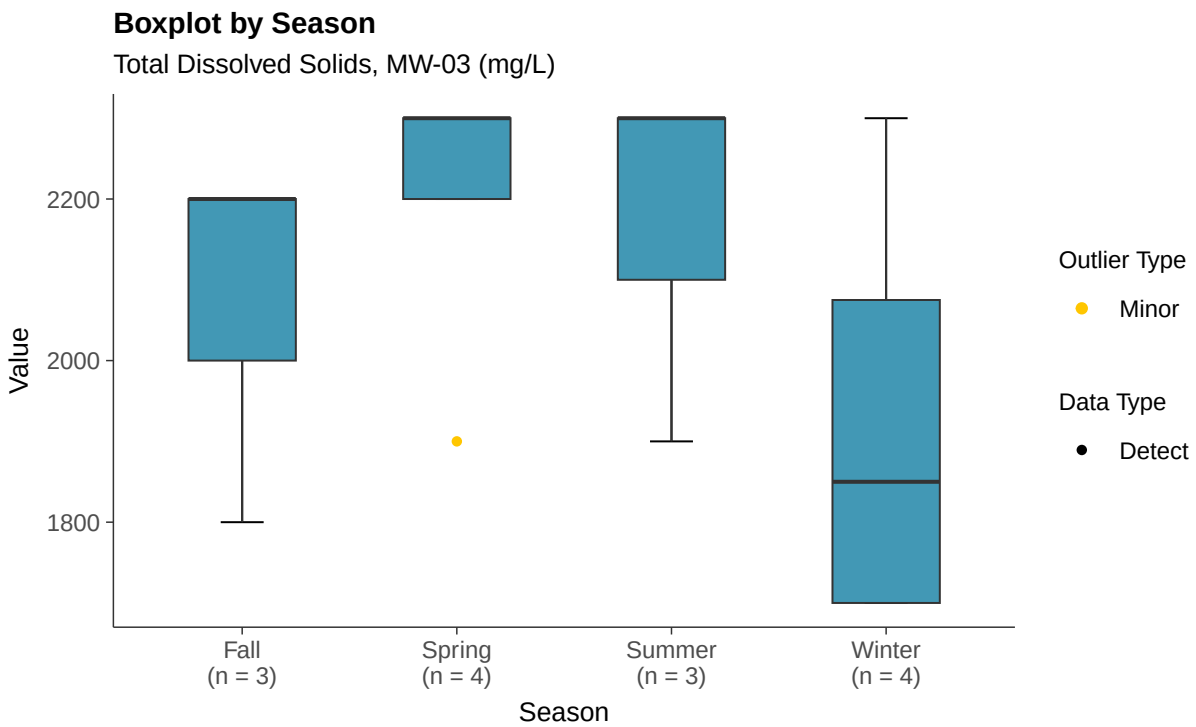


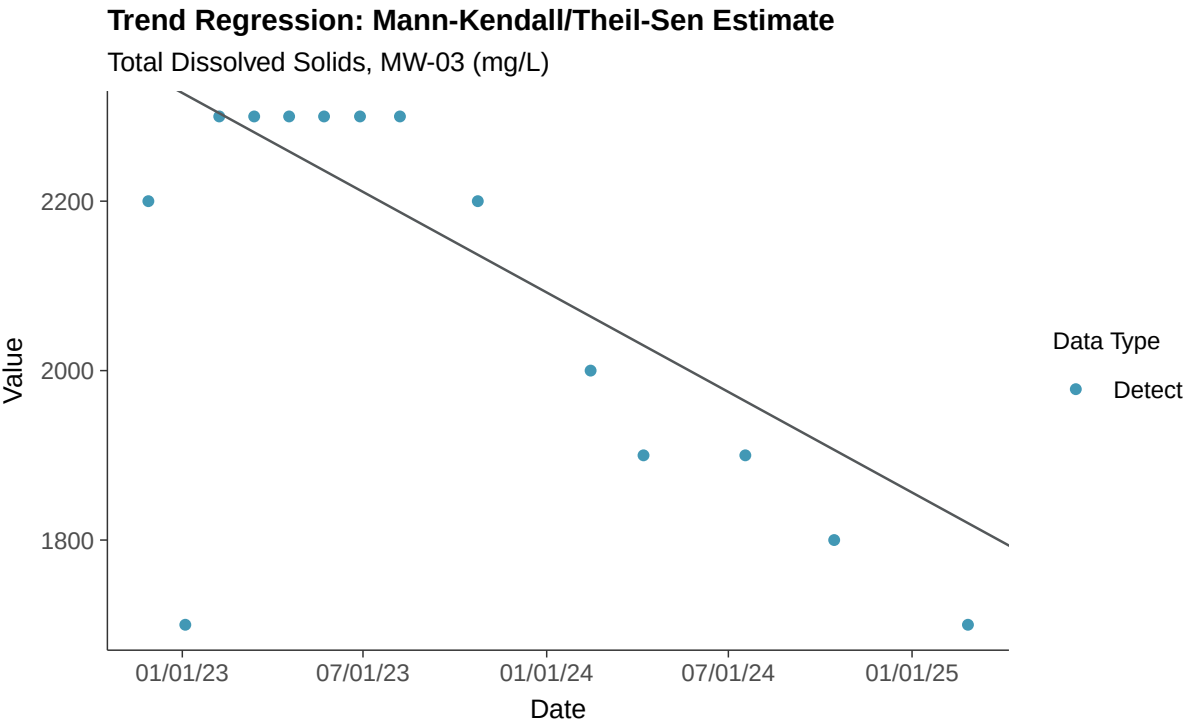
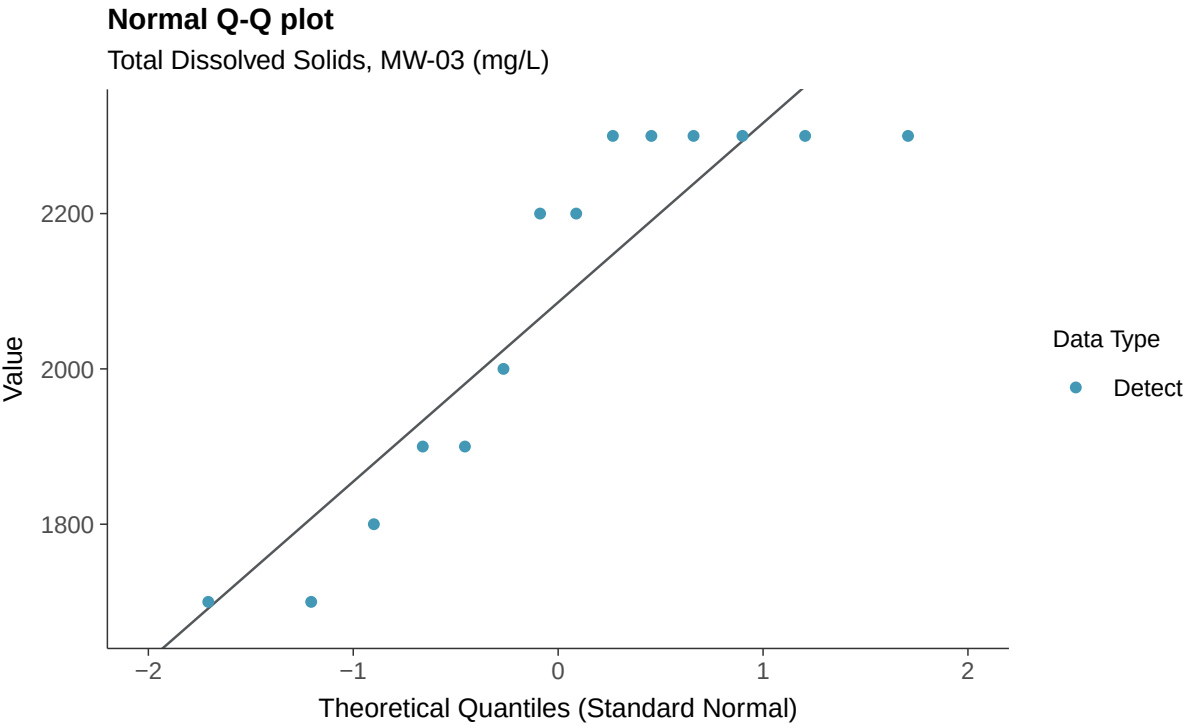


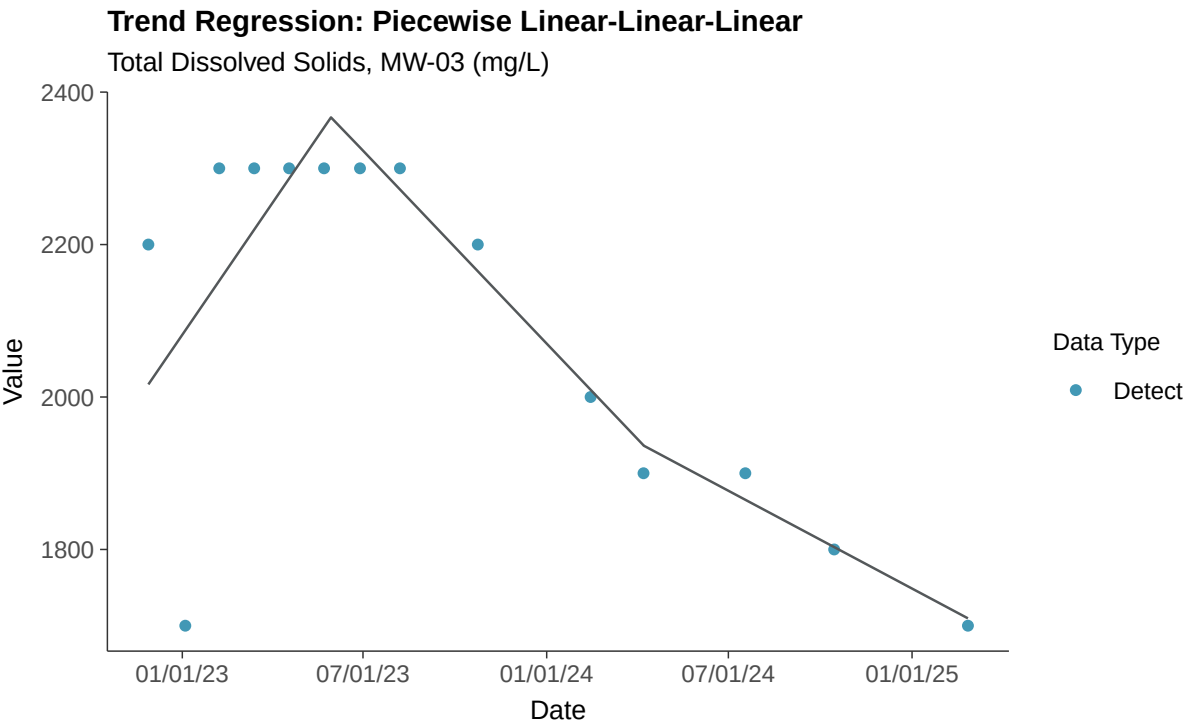
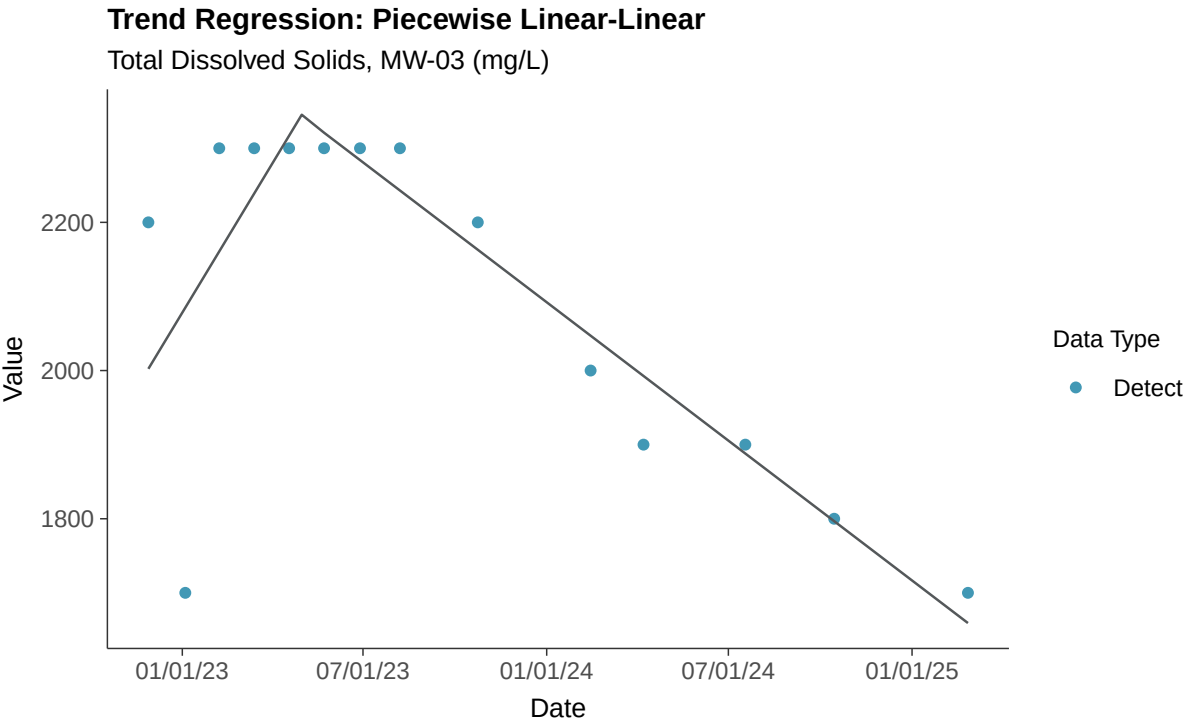
Appendix III: Total Dissolved Solids, MW-03

ID: 13_2_3_126





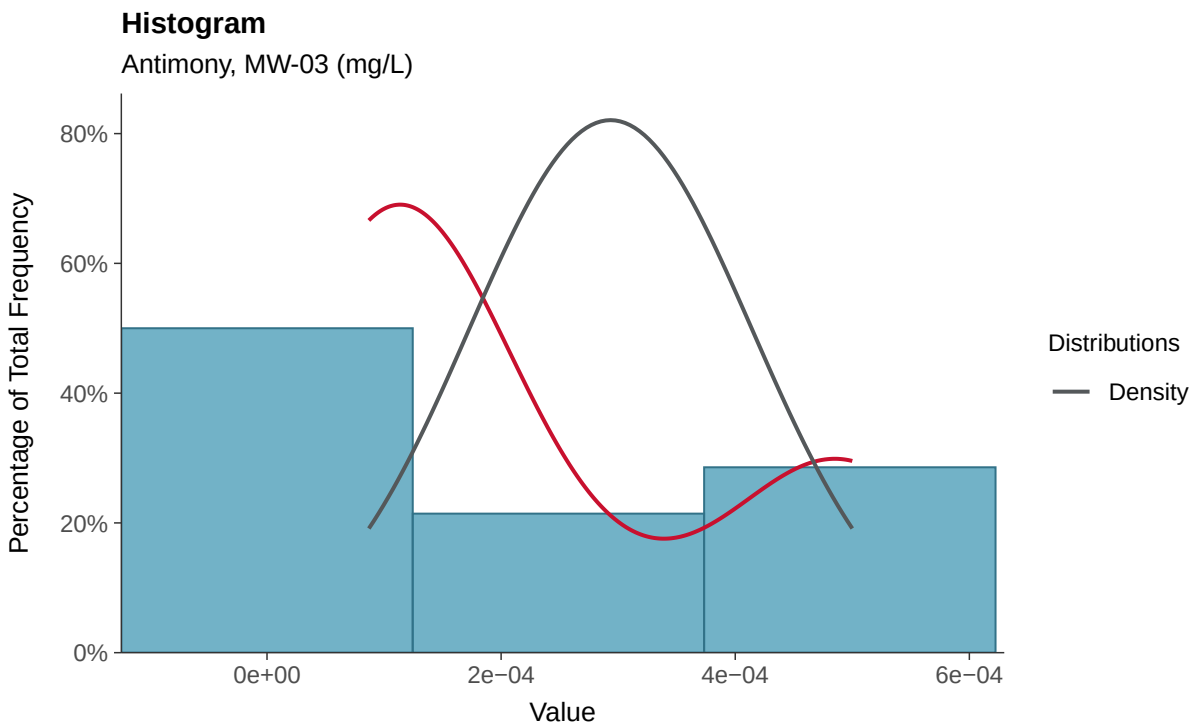
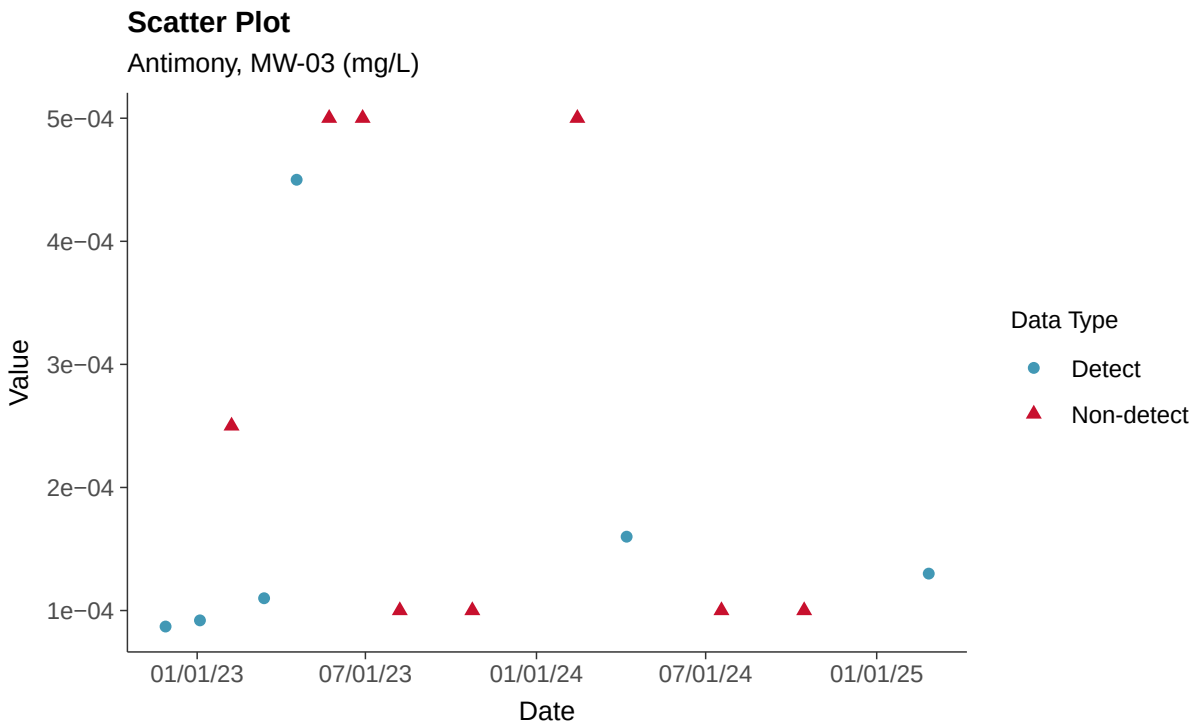


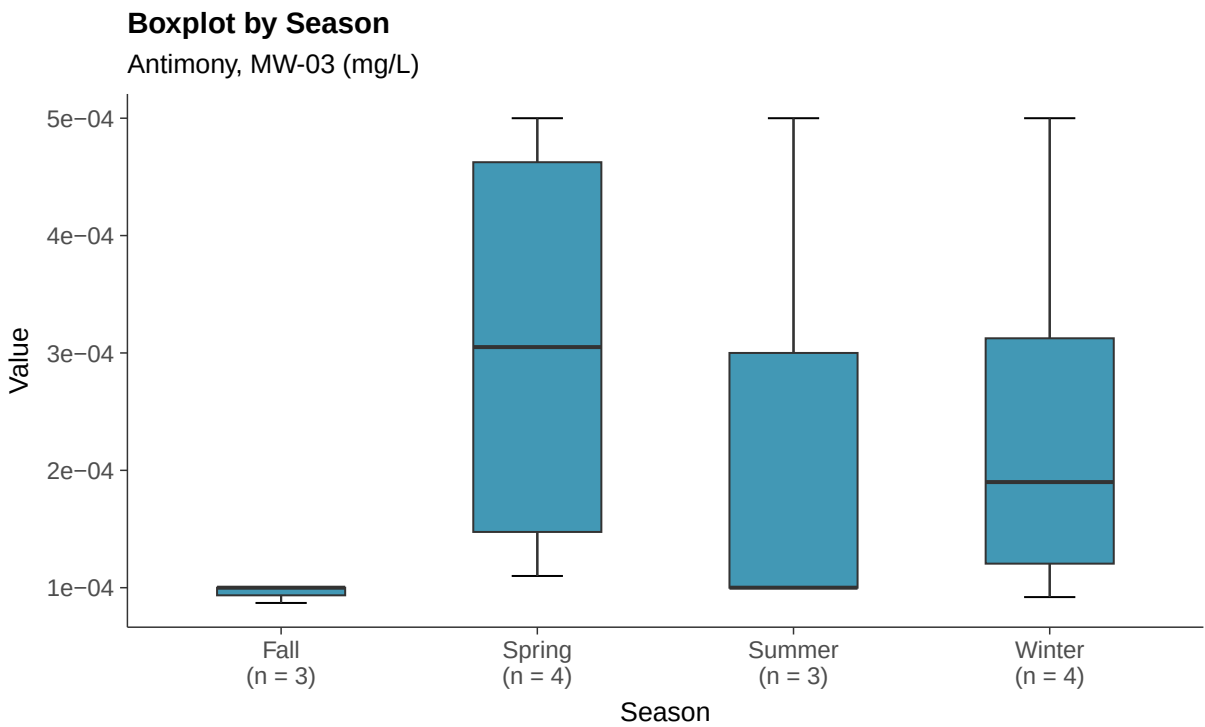
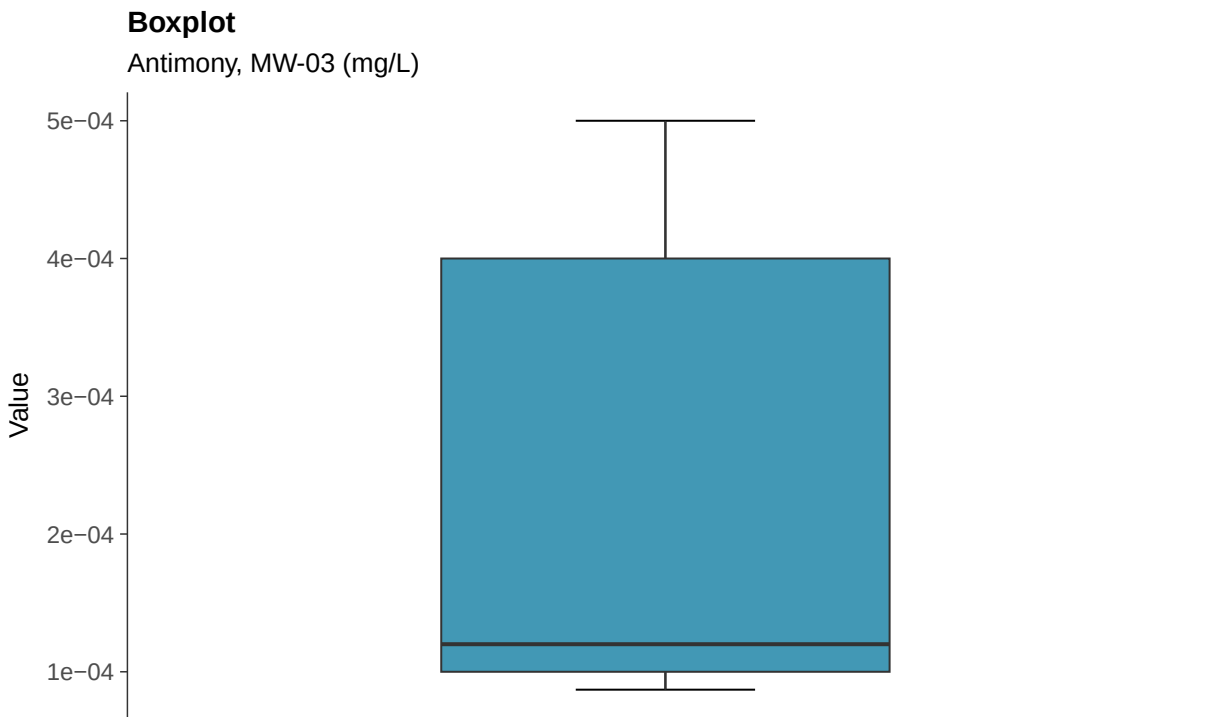




Appendix IV: Antimony, MW-03

ID: 13_2_4_101

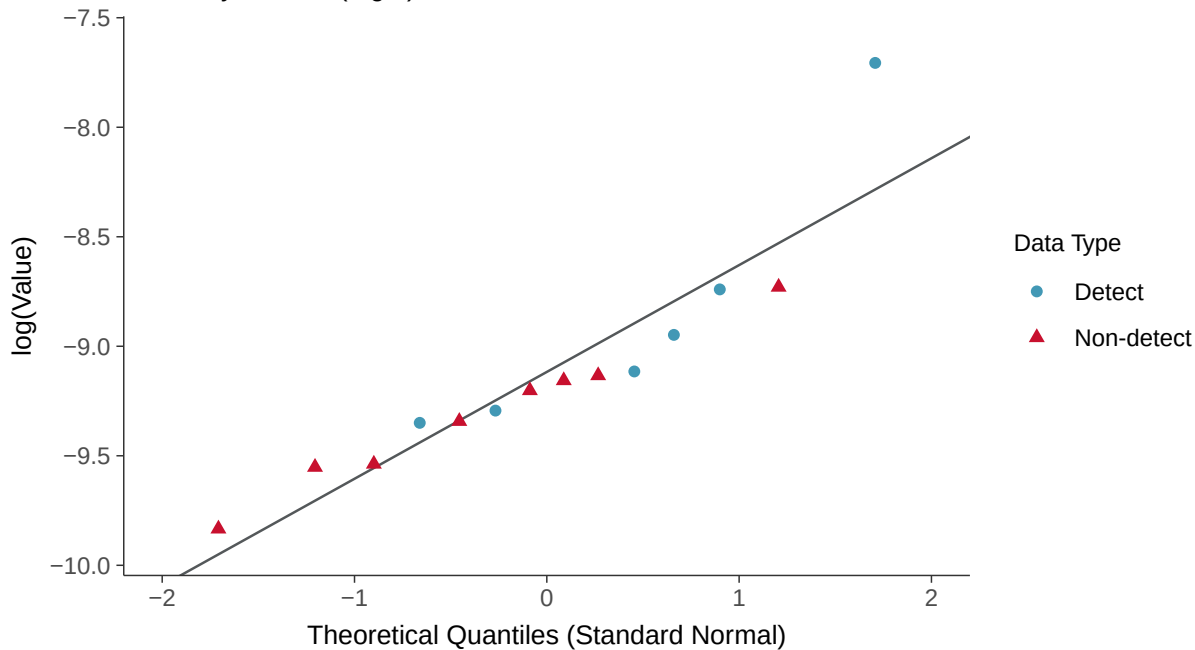






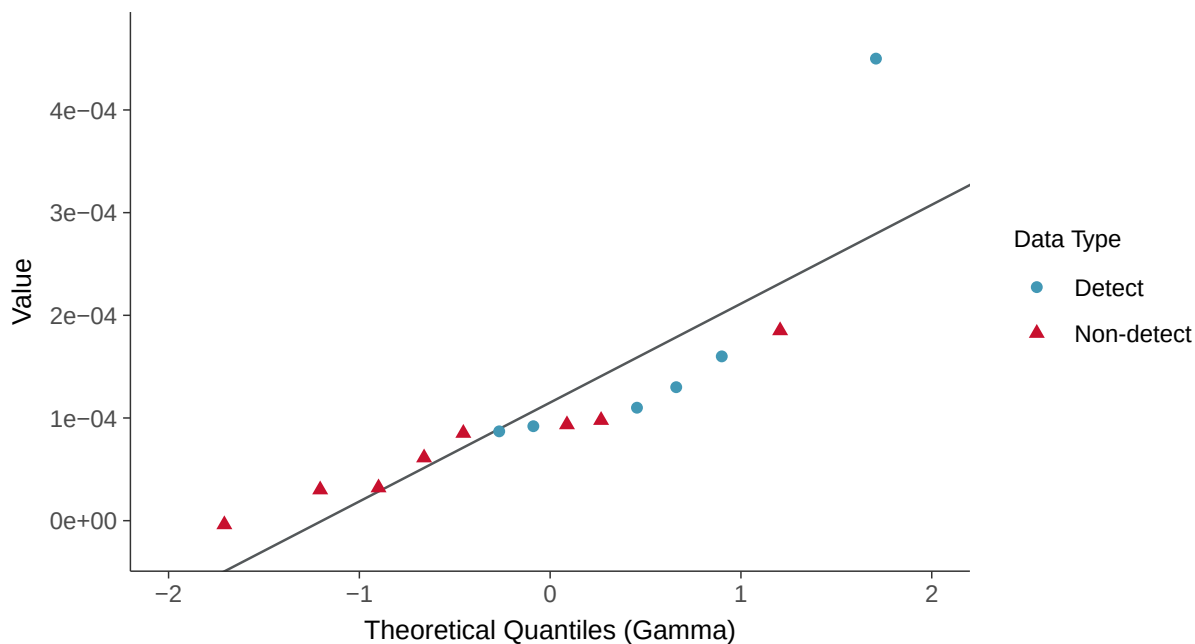
Lognormal Q-Q plot using ROS Imputed Estimates

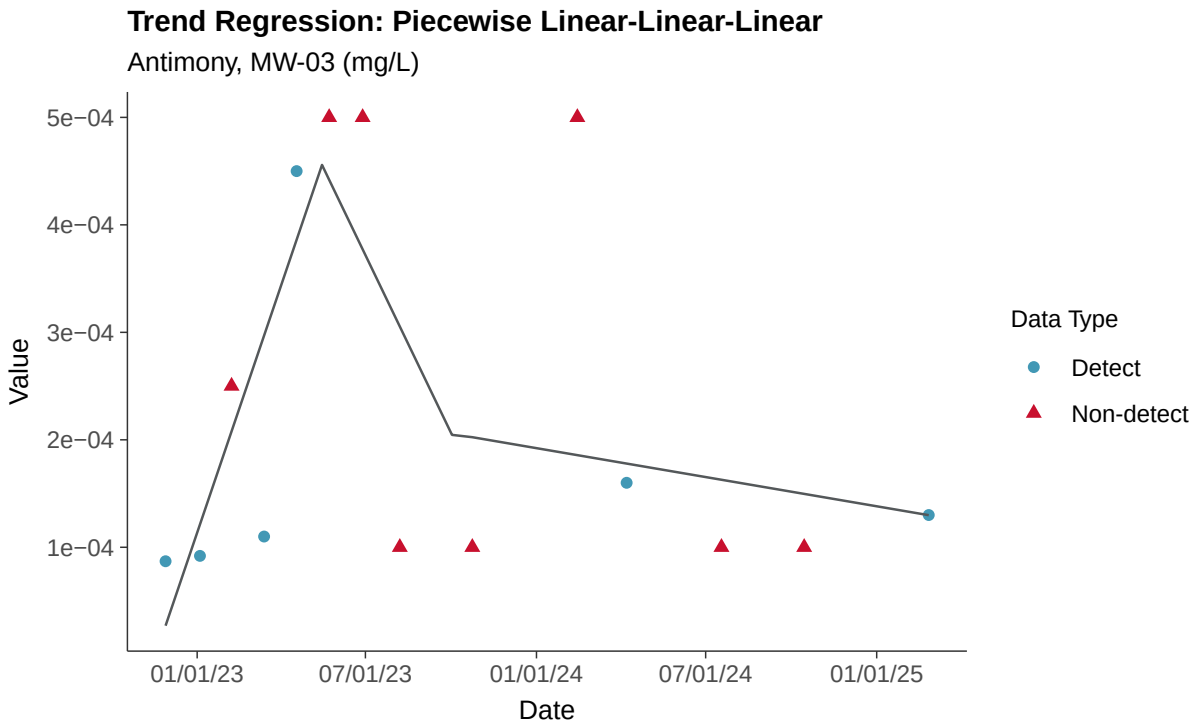
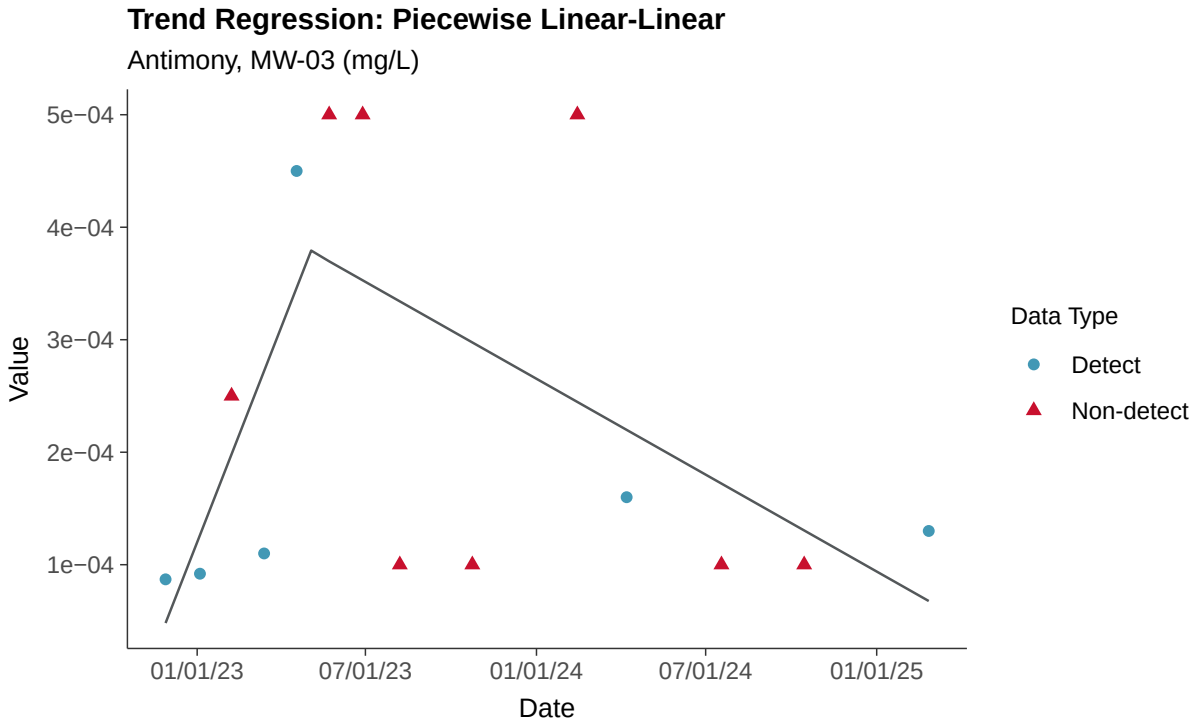
Antimony, MW-03 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-03 (mg/L)

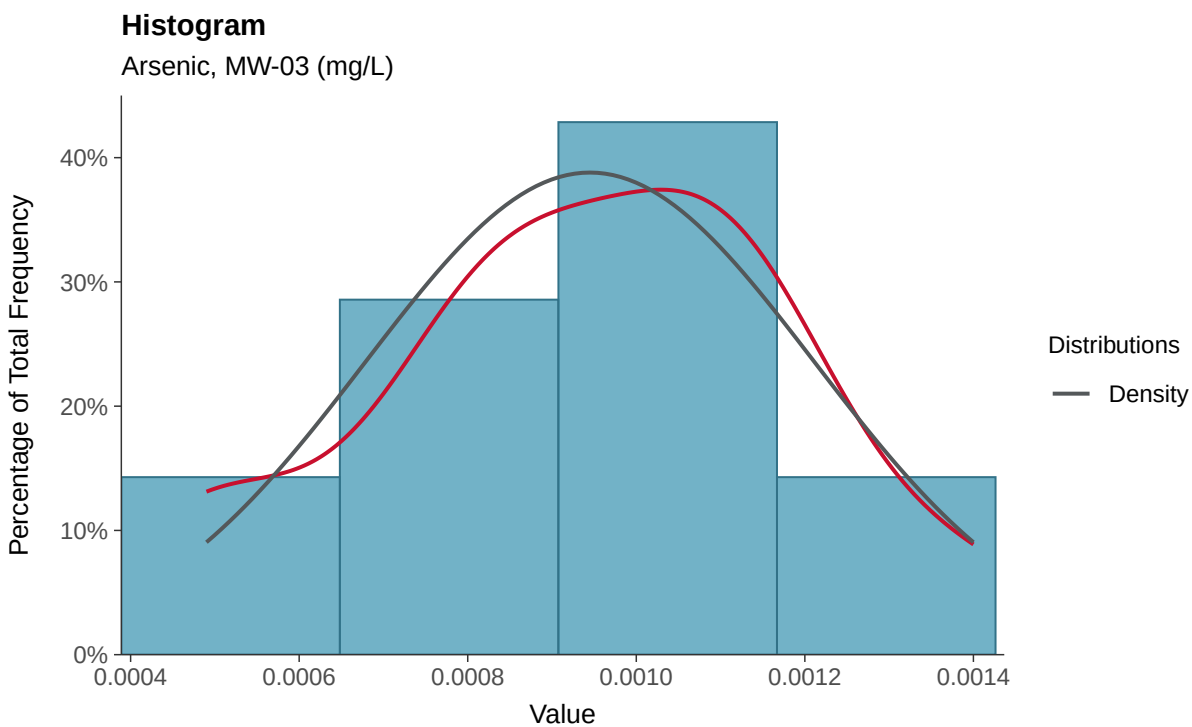
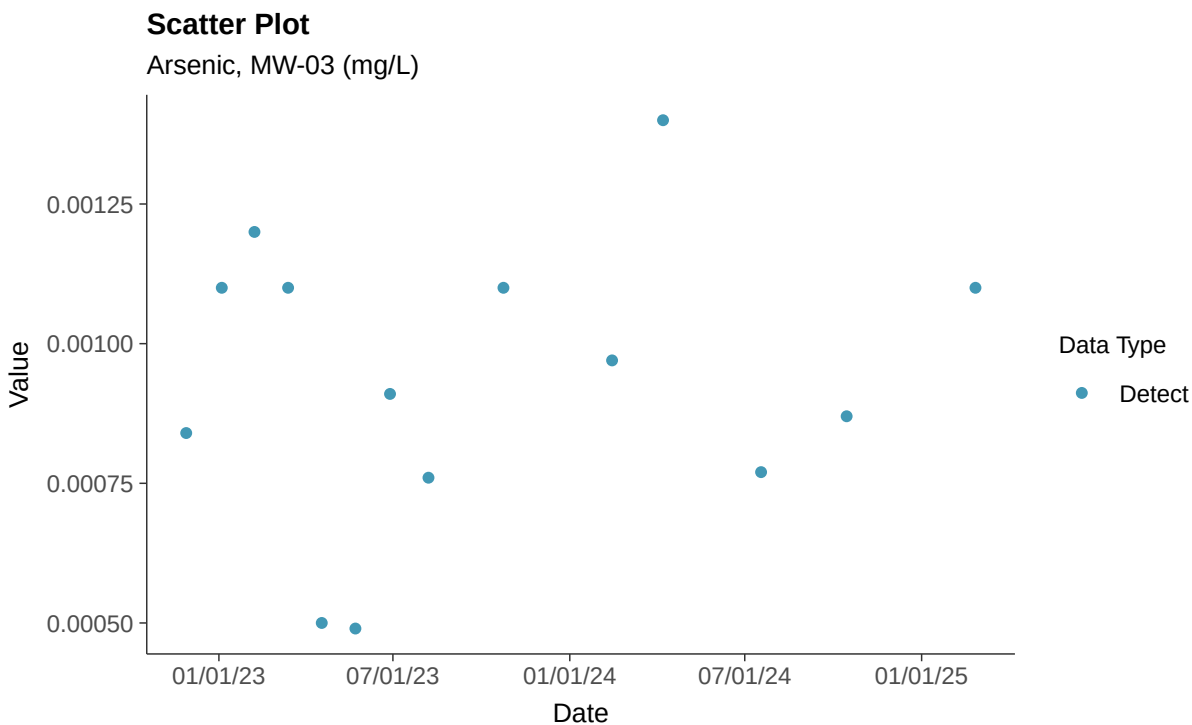


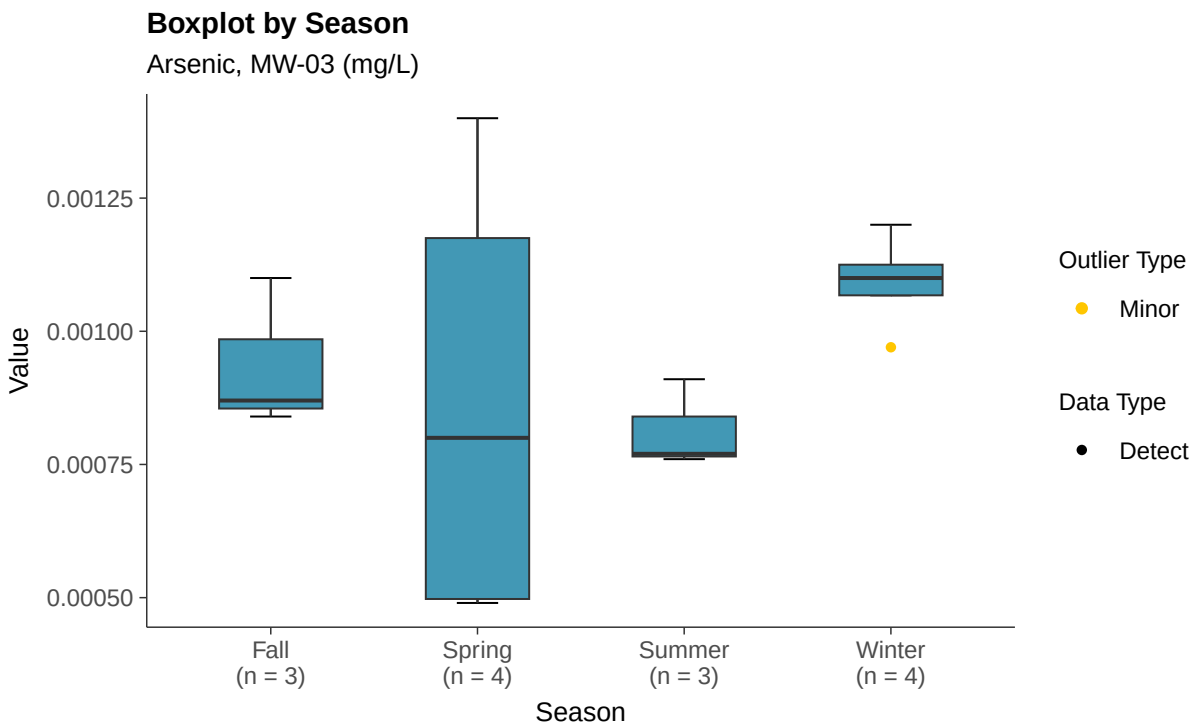
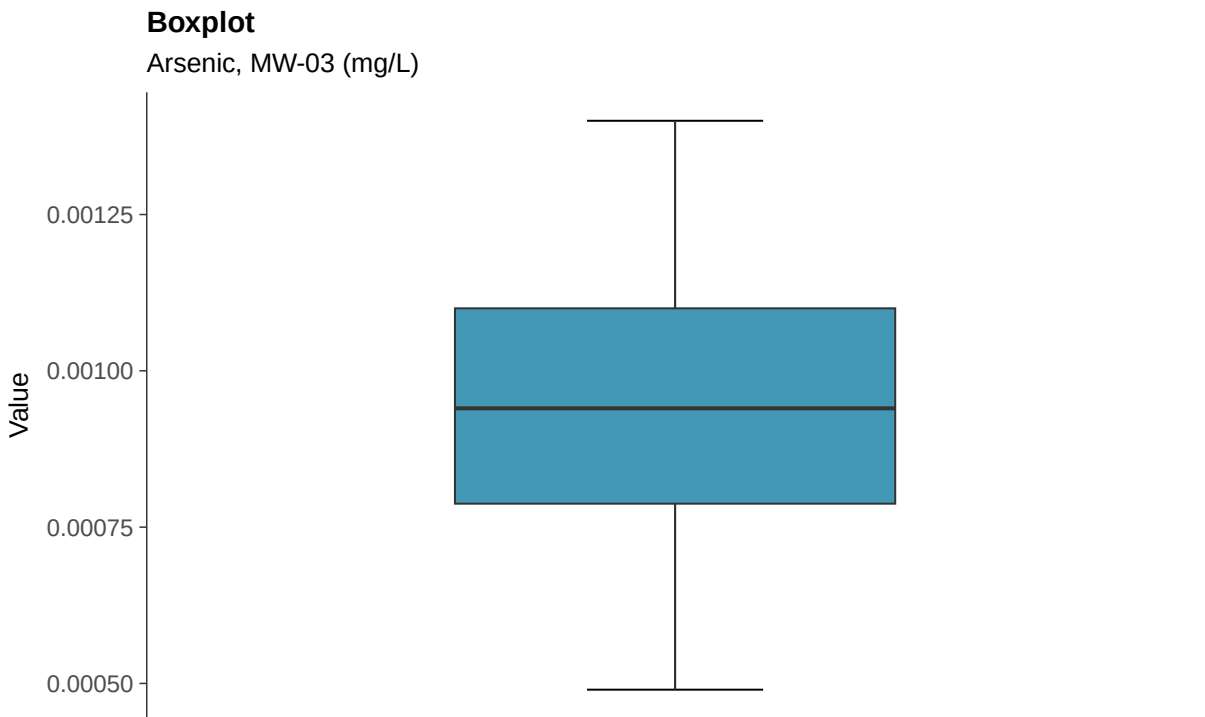


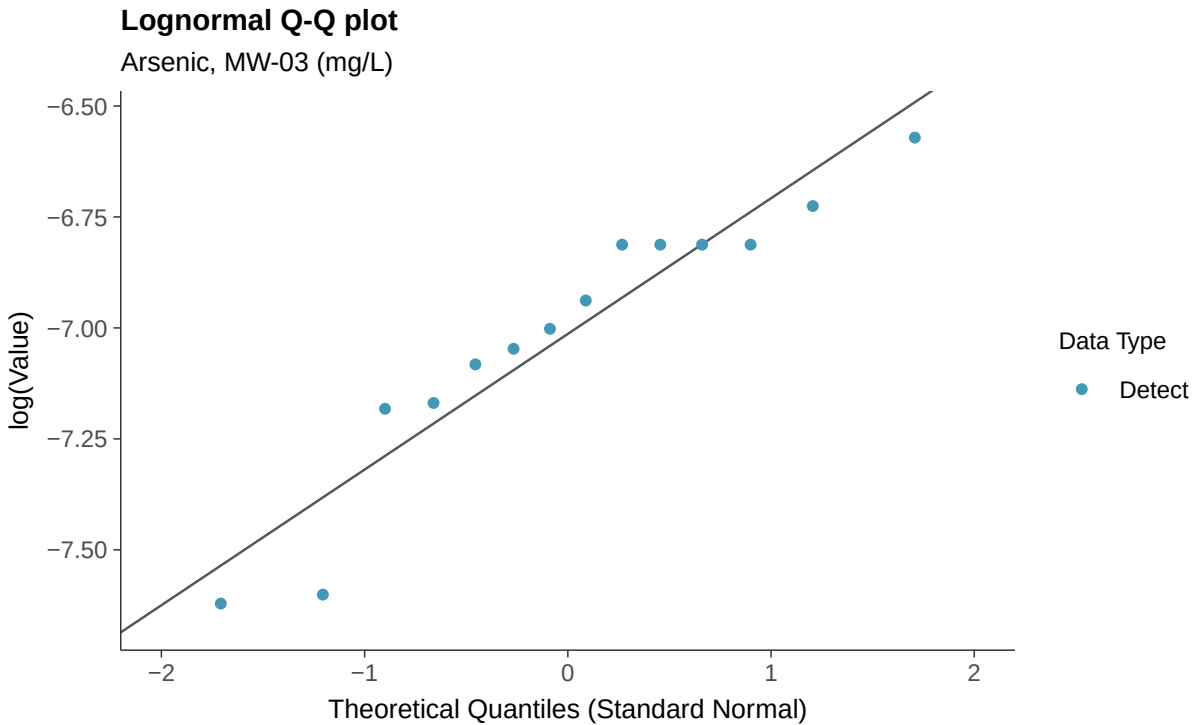
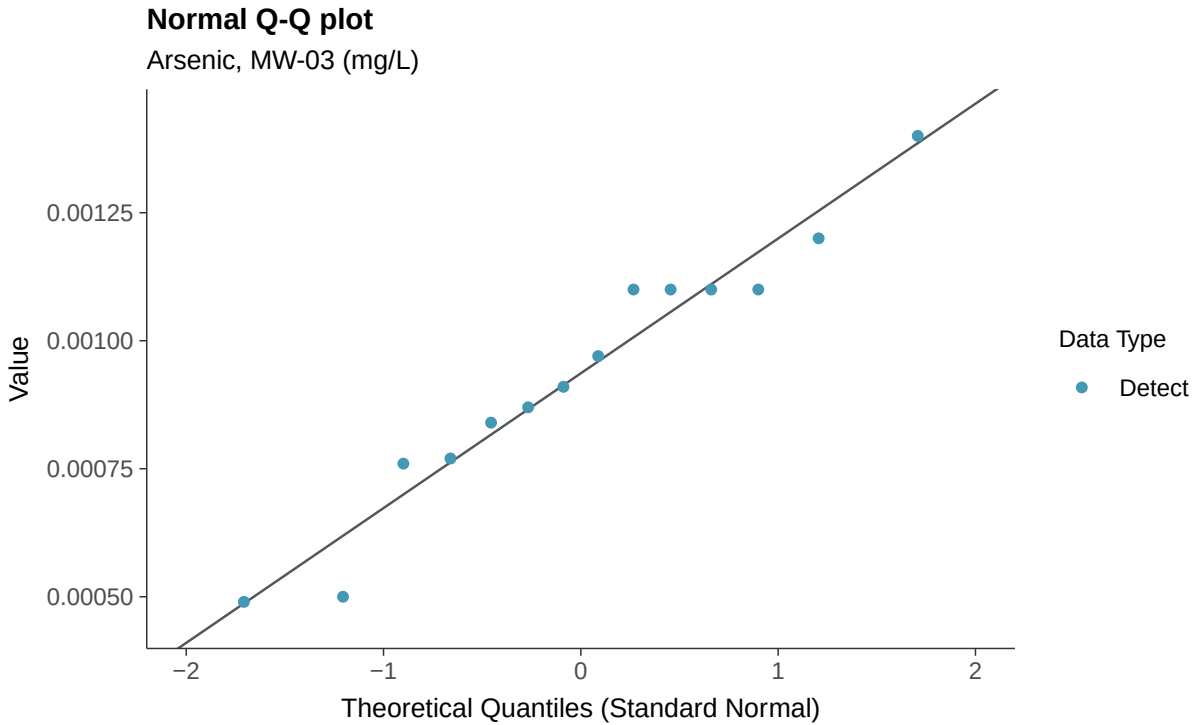


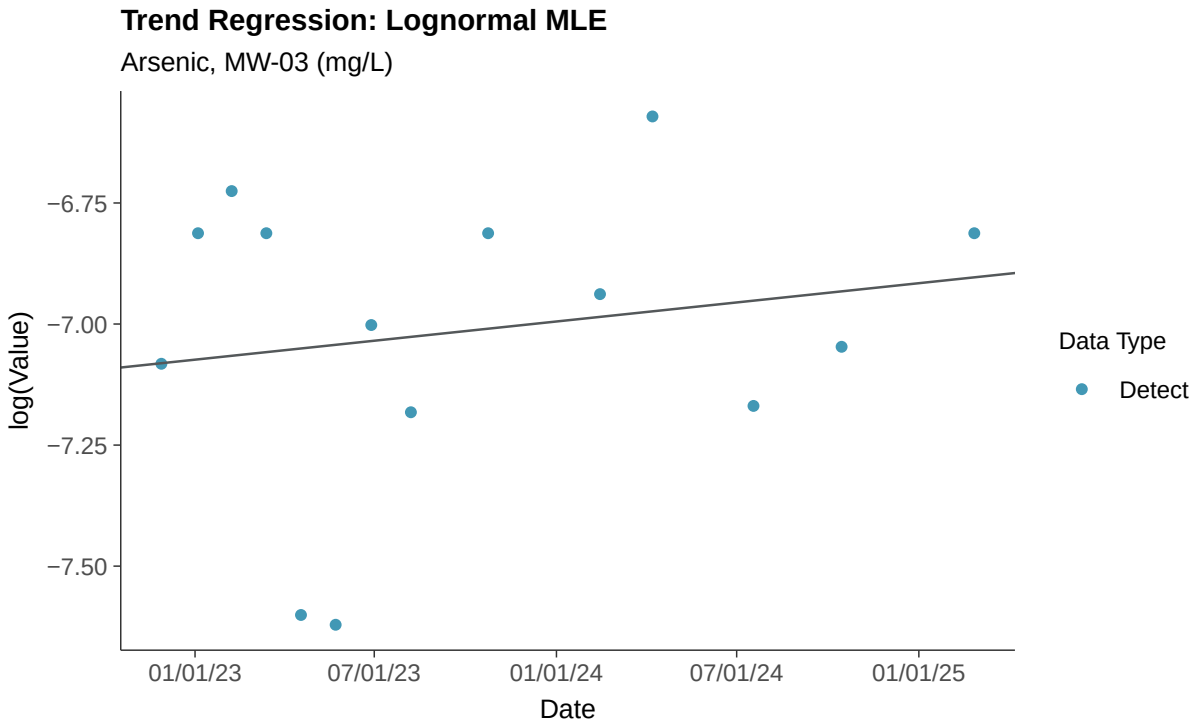
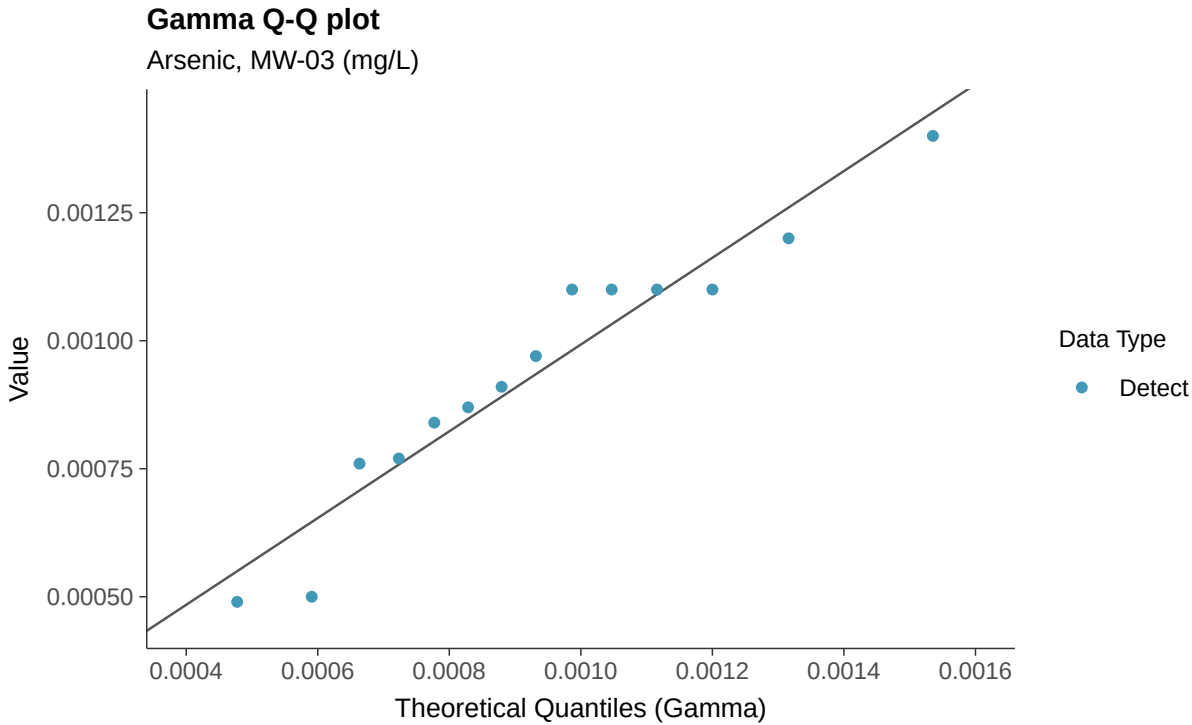
Appendix IV: Arsenic, MW-03

ID: 13_2_4_102





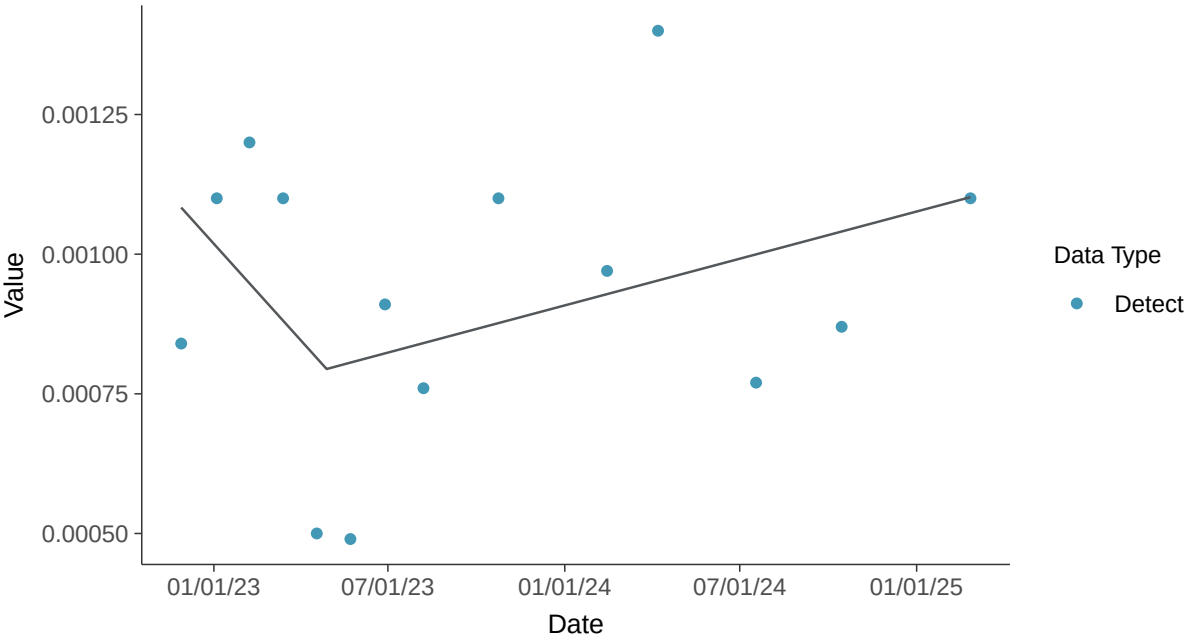






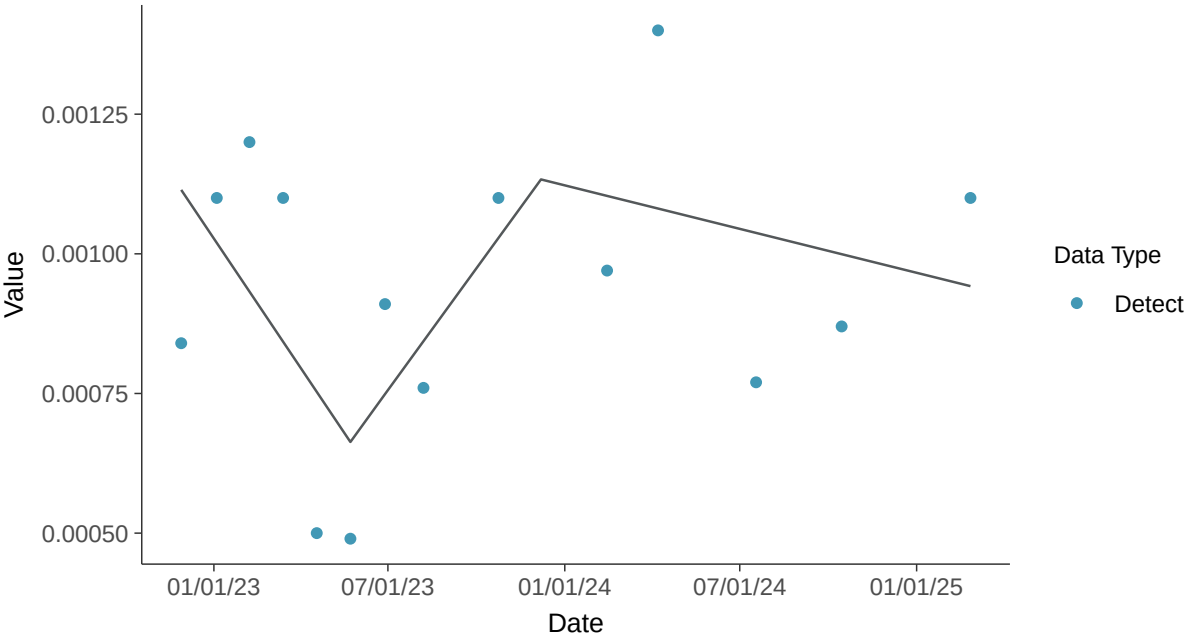
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

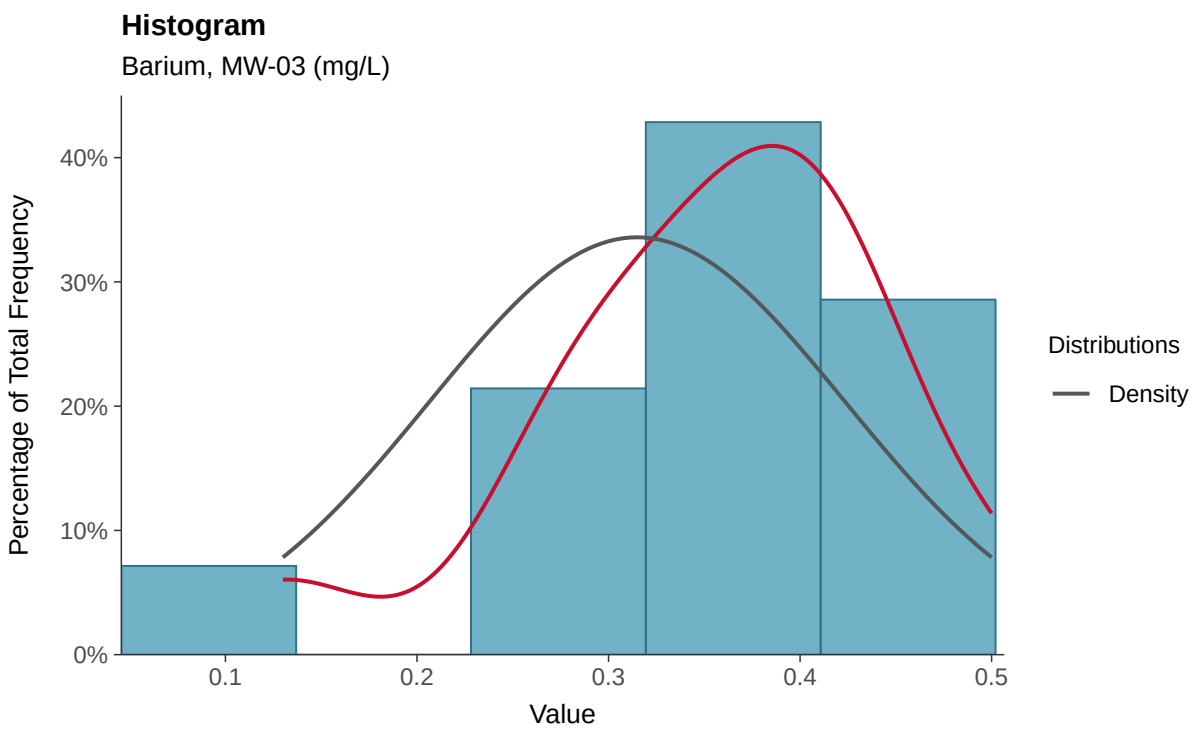
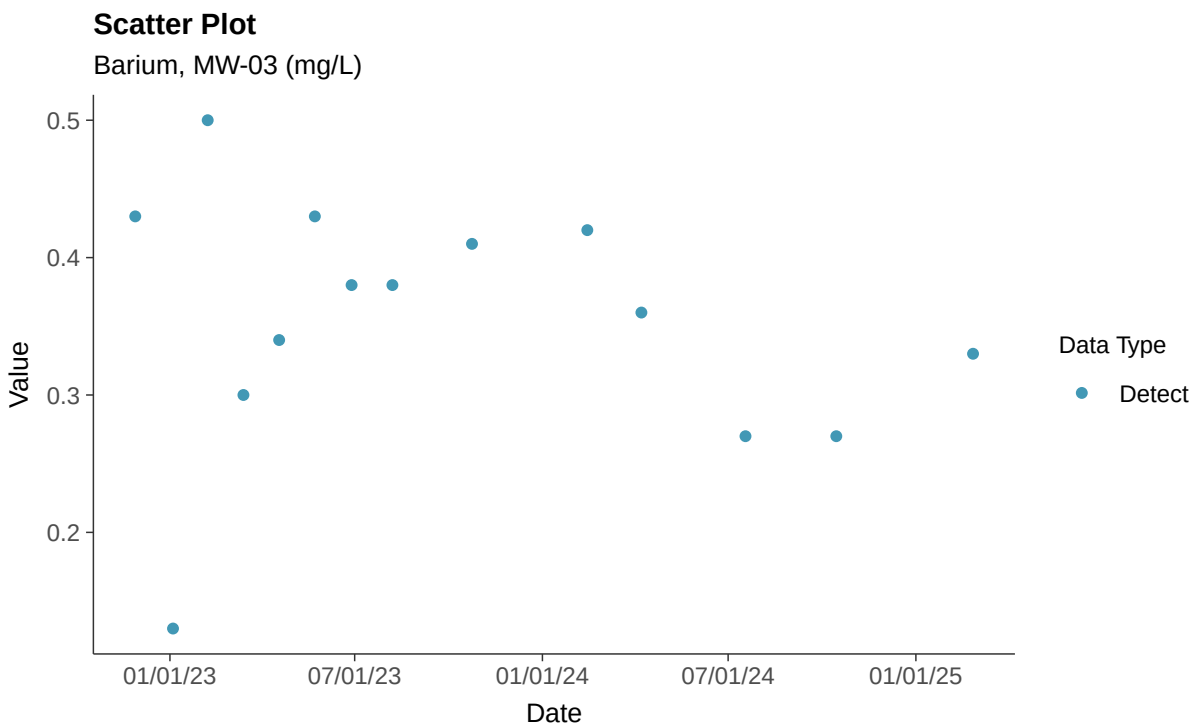
Arsenic, MW-03 (mg/L)

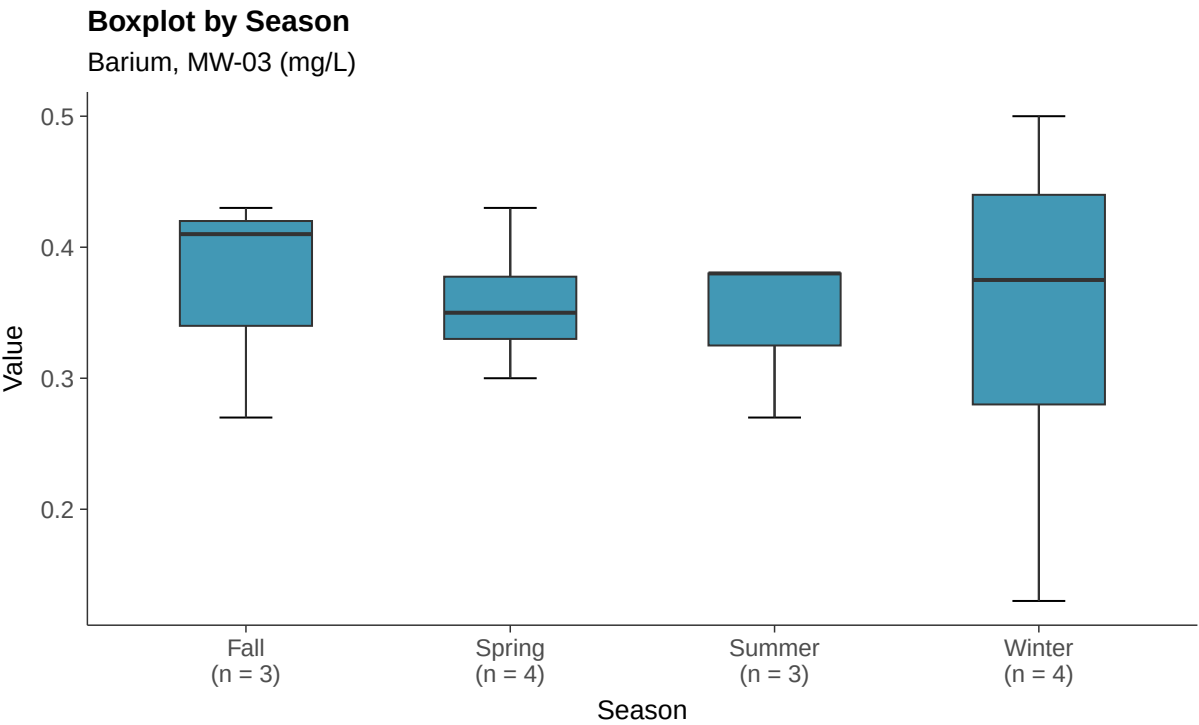
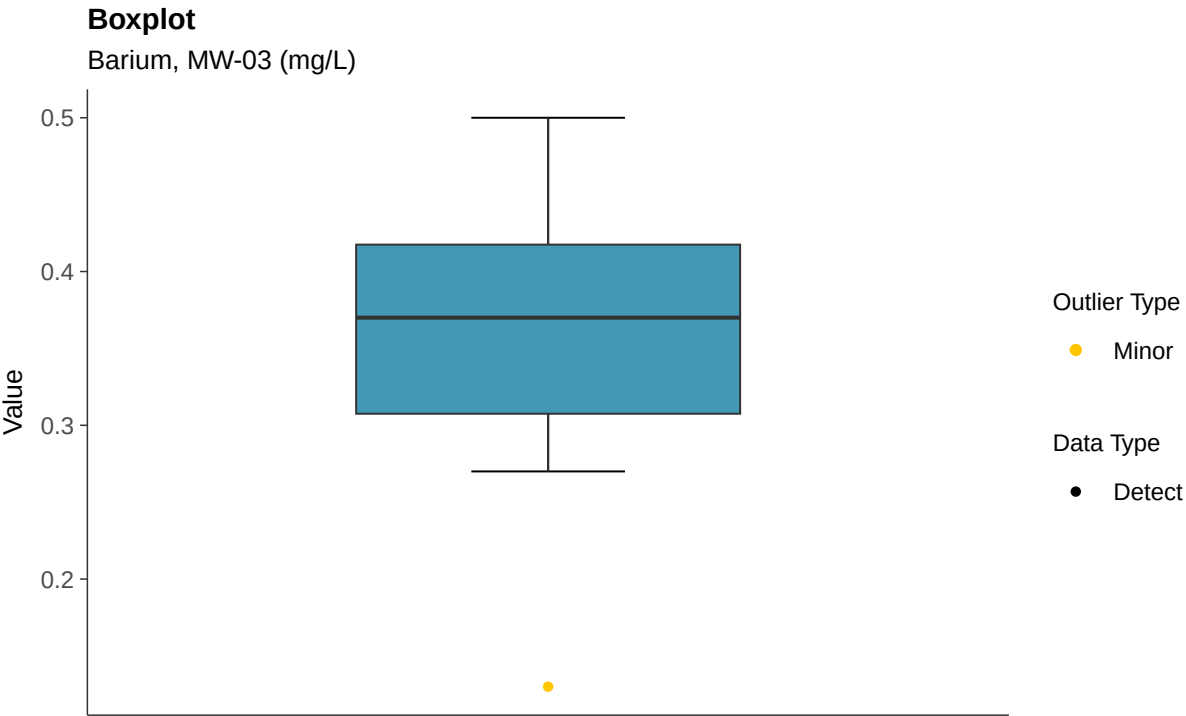


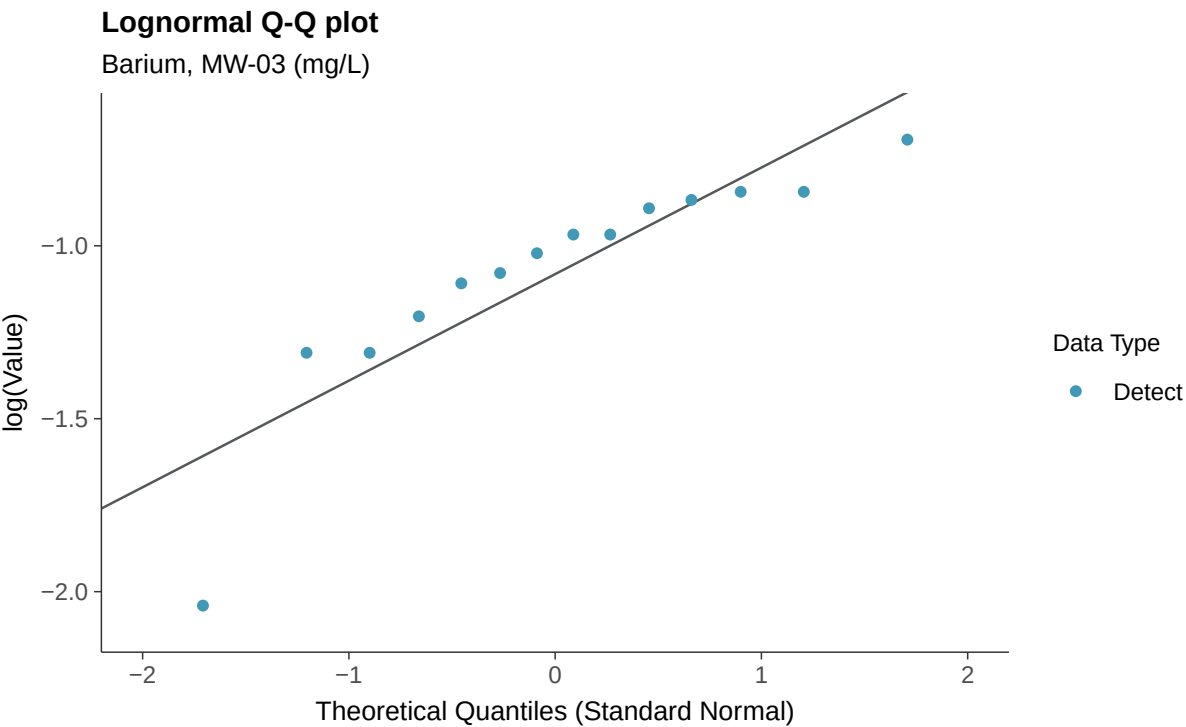
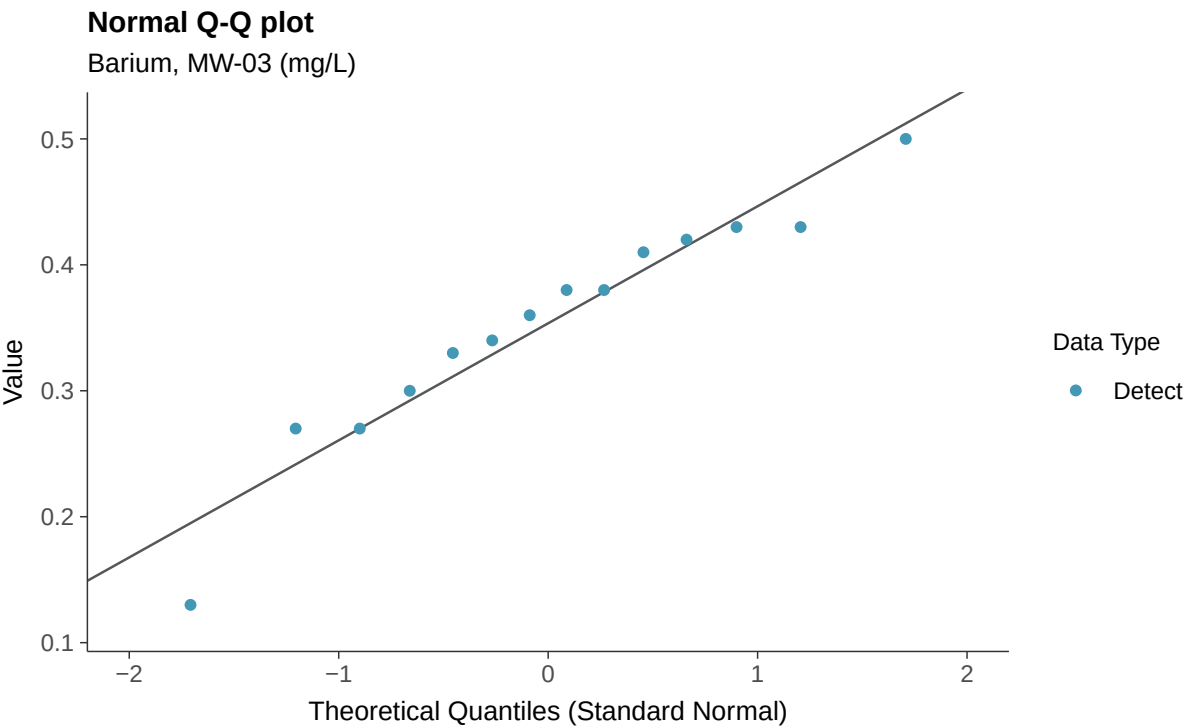


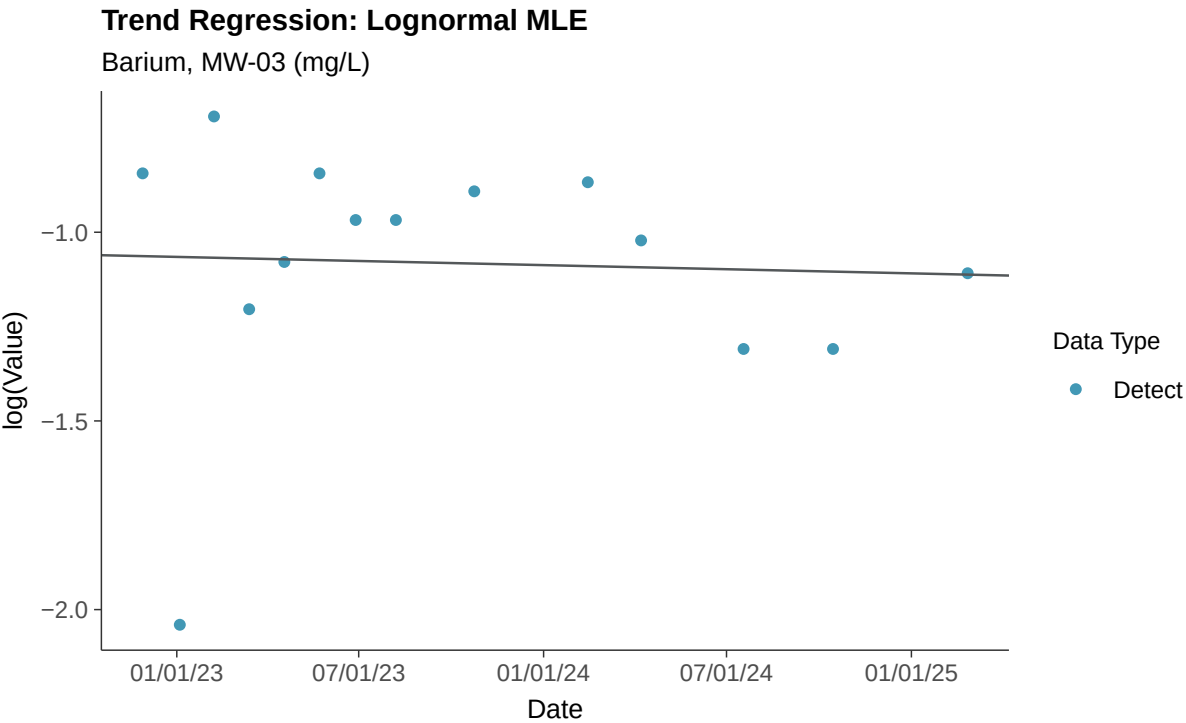
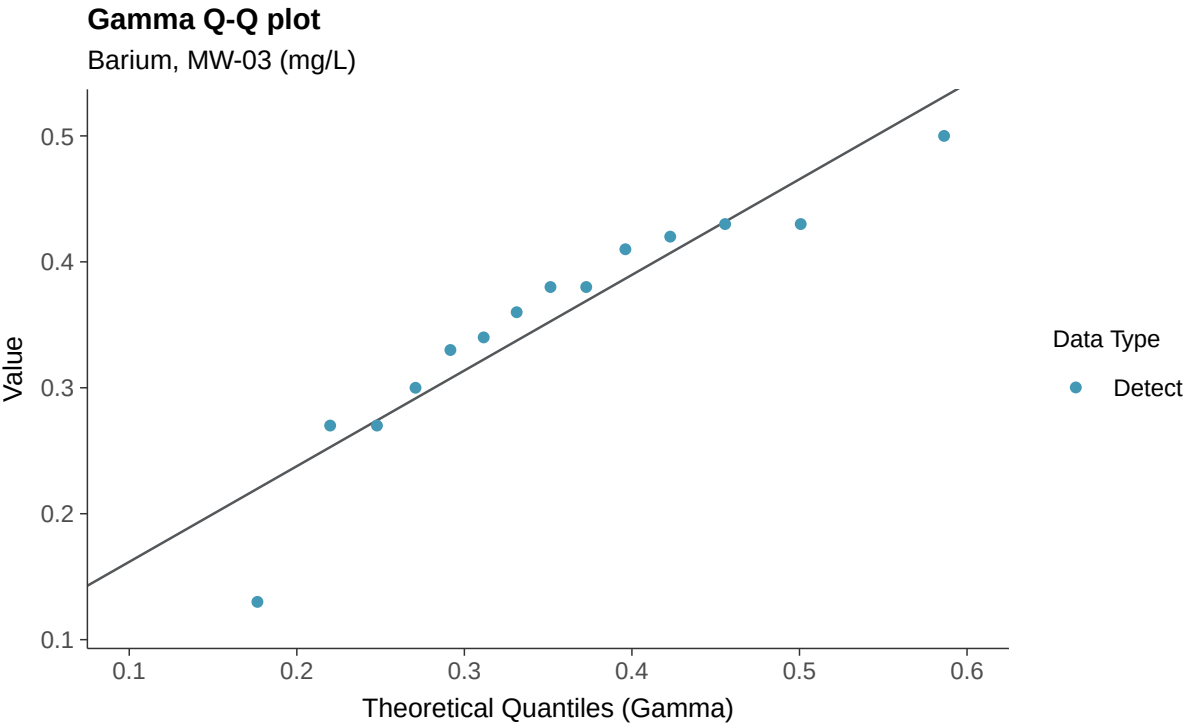
Appendix IV: Barium, MW-03

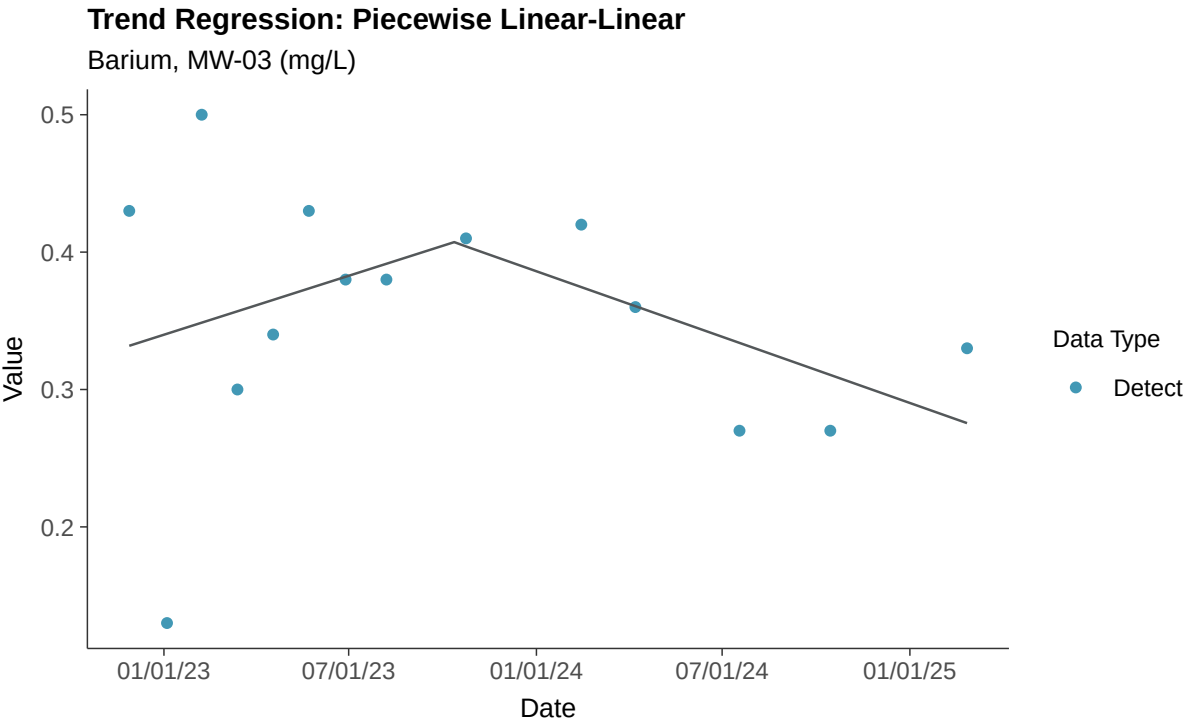
ID: 13_2_4_103







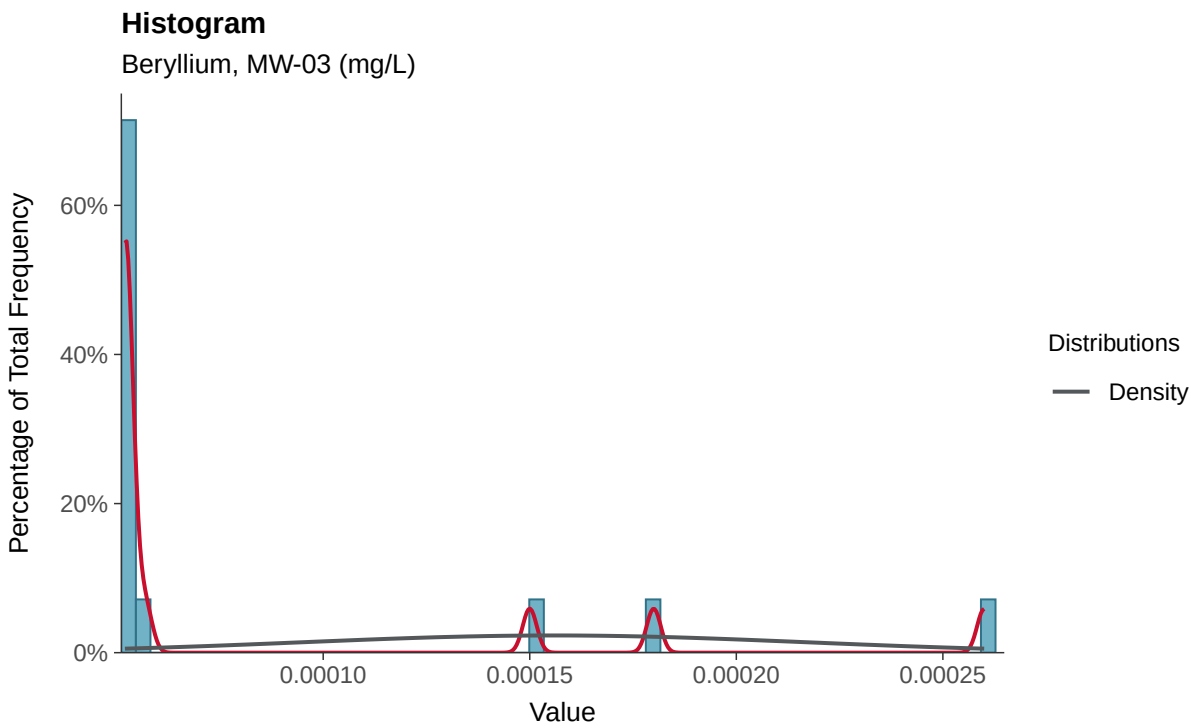
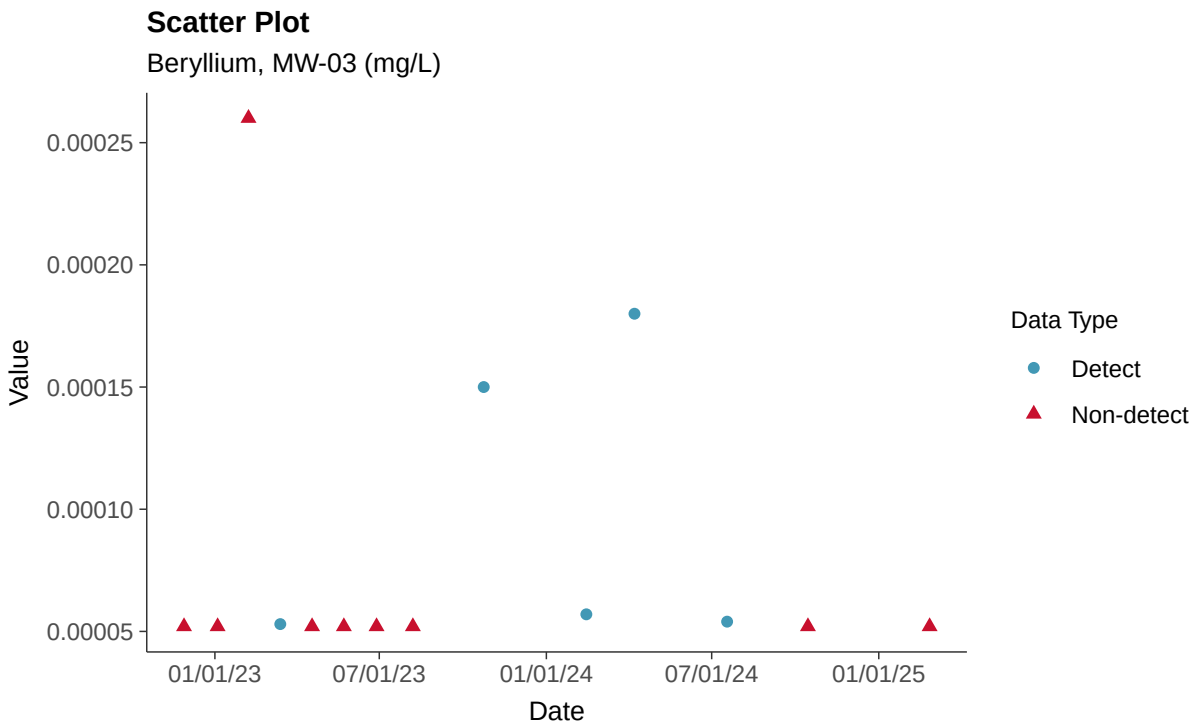


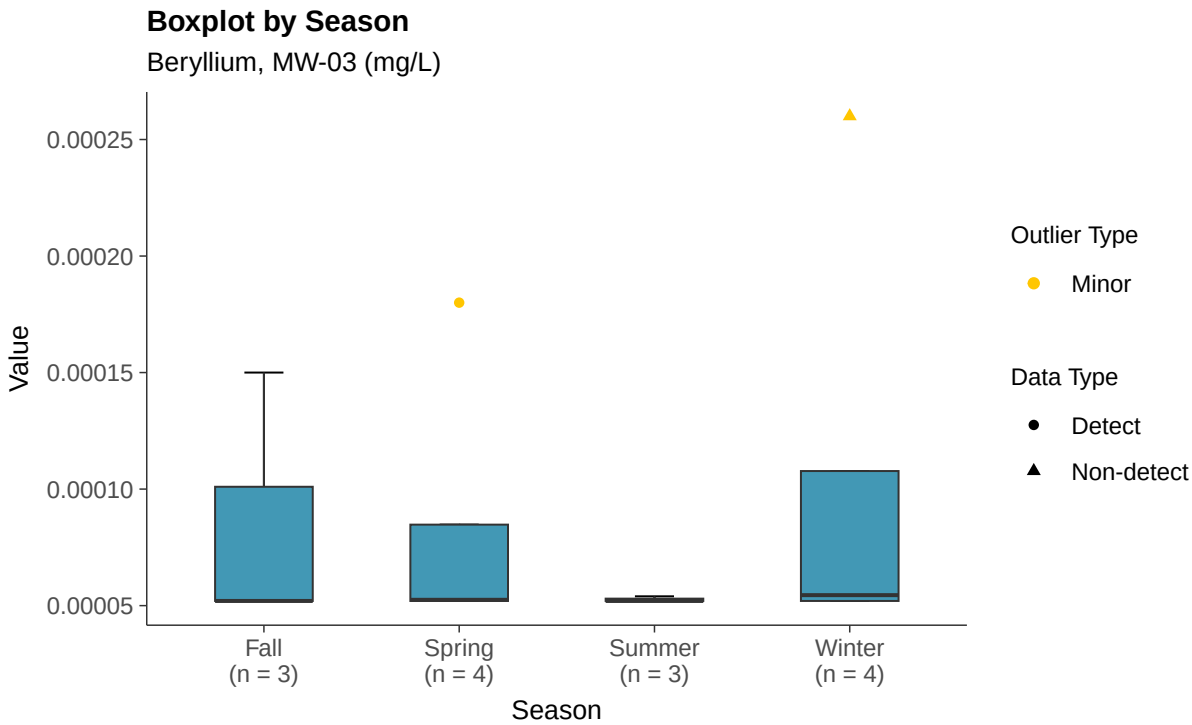
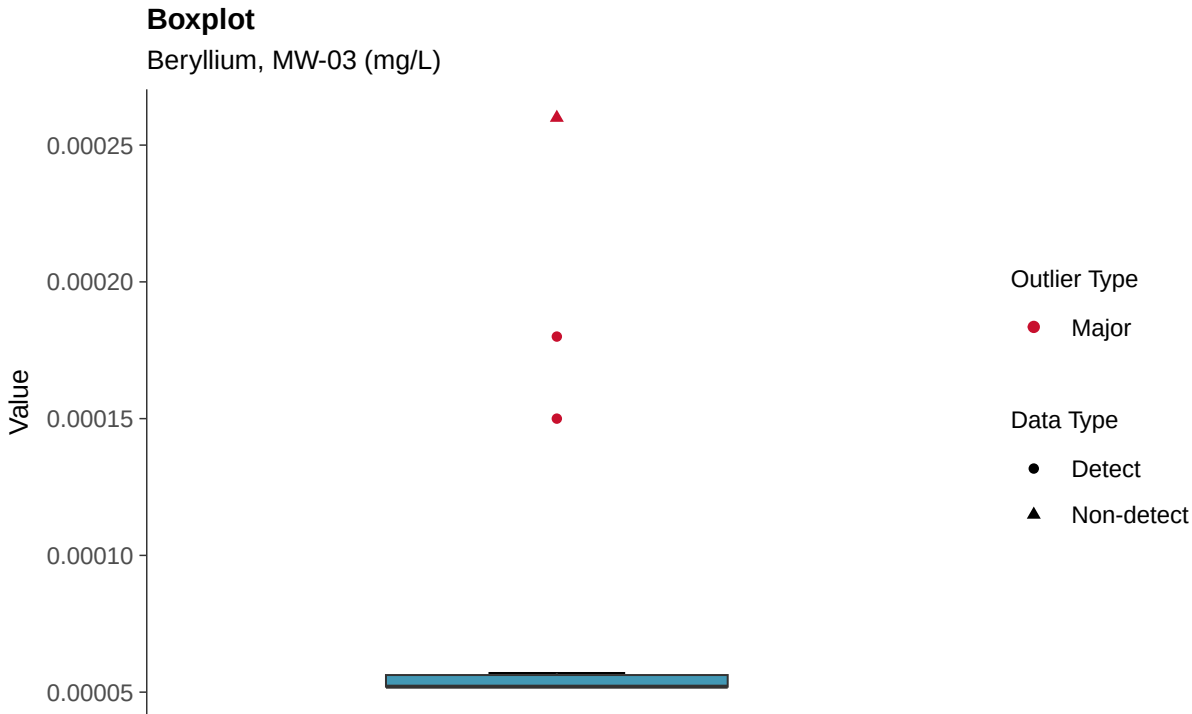




Appendix IV: Beryllium, MW-03

ID: 13_2_4_104

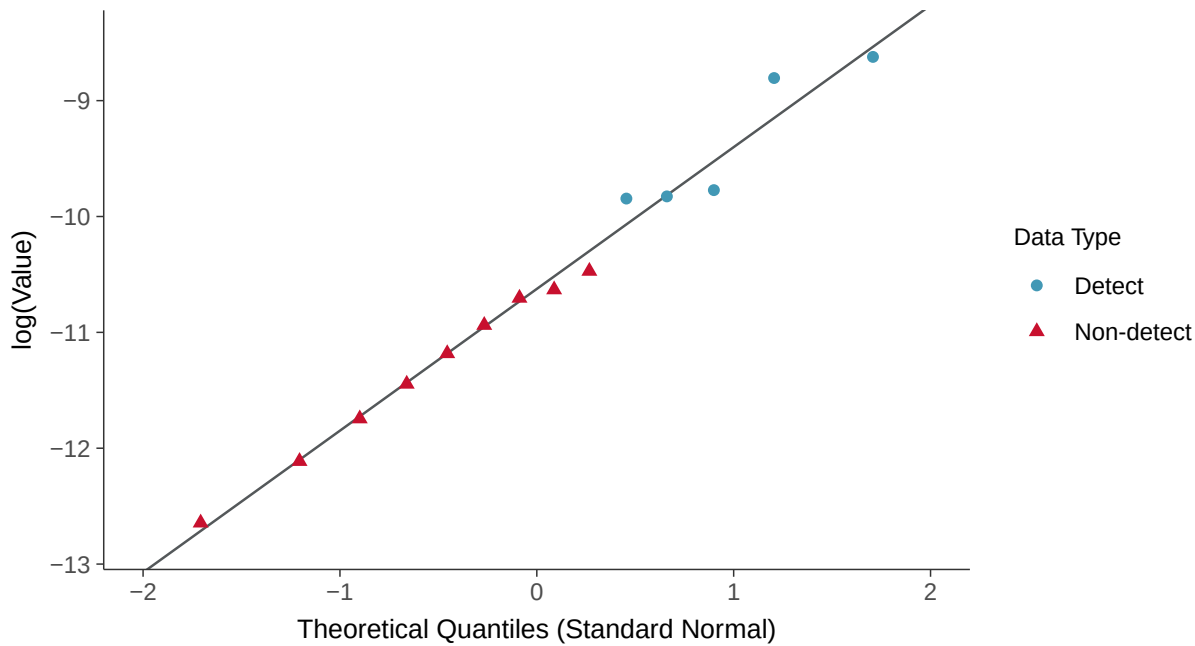






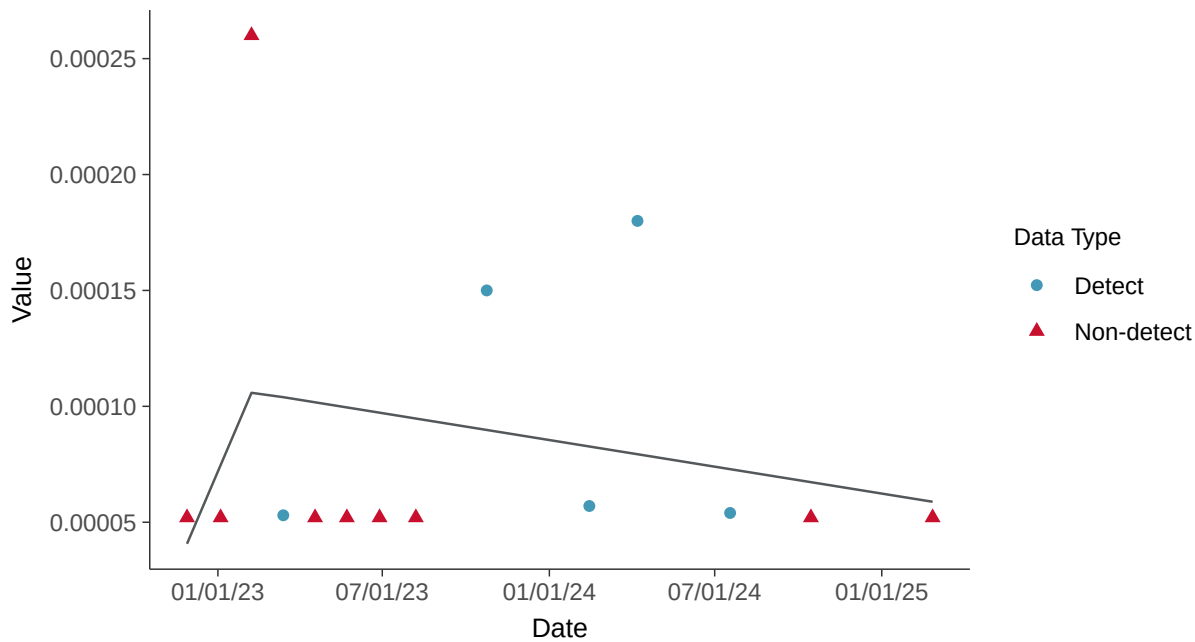
Lognormal Q-Q plot using ROS Imputed Estimates

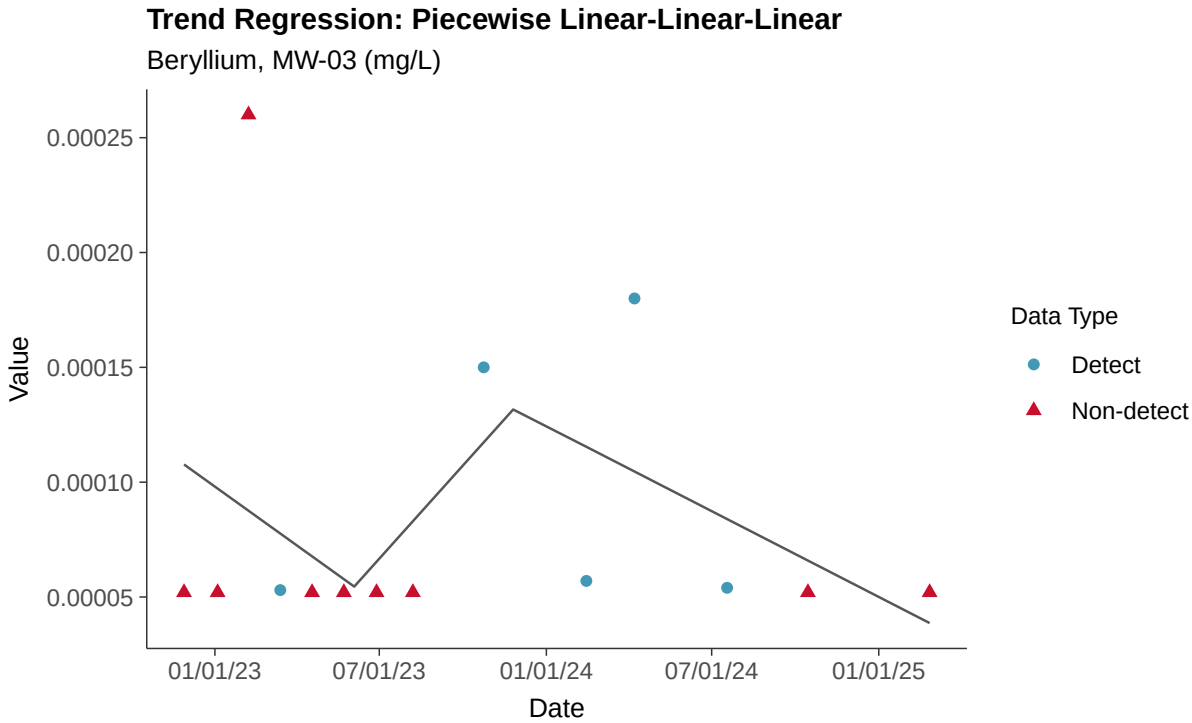
Beryllium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Beryllium, MW-03 (mg/L)

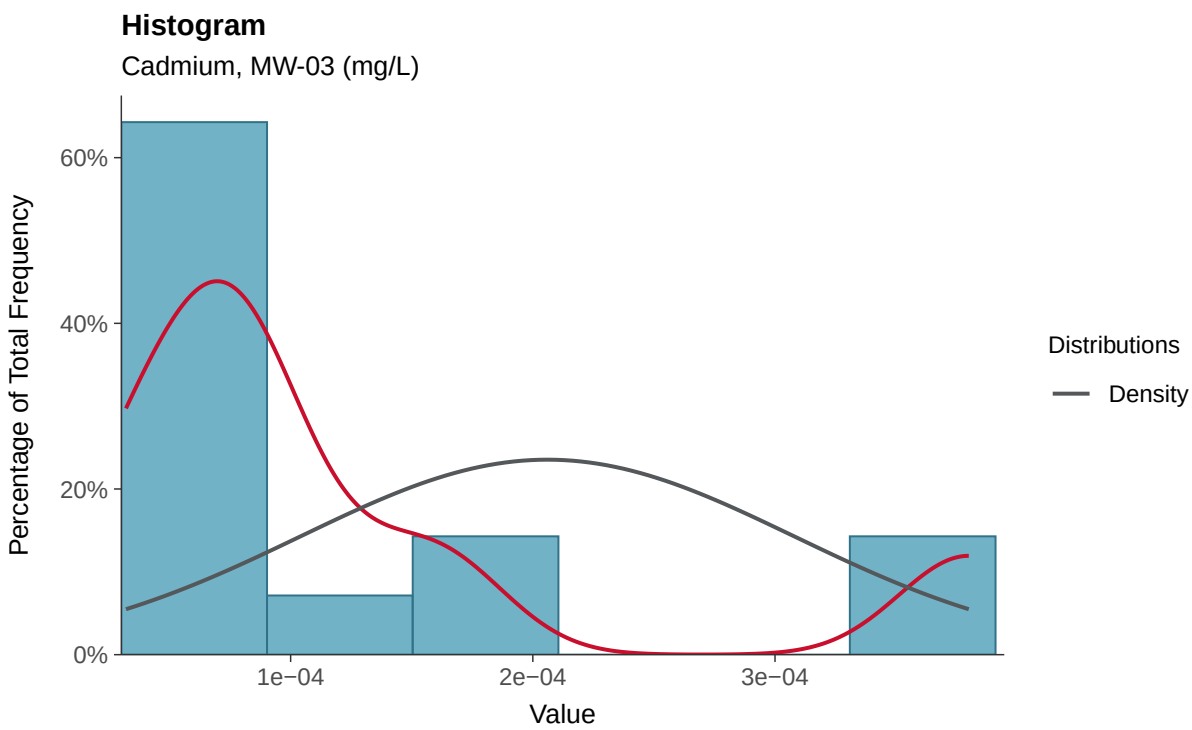
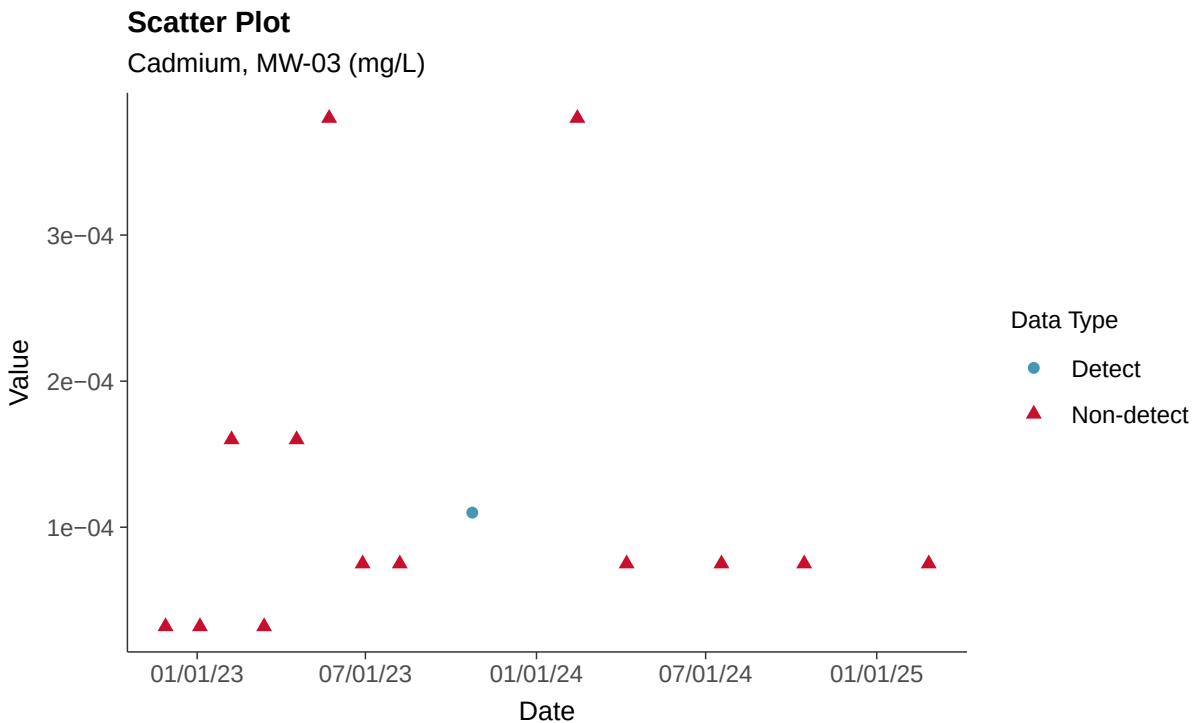


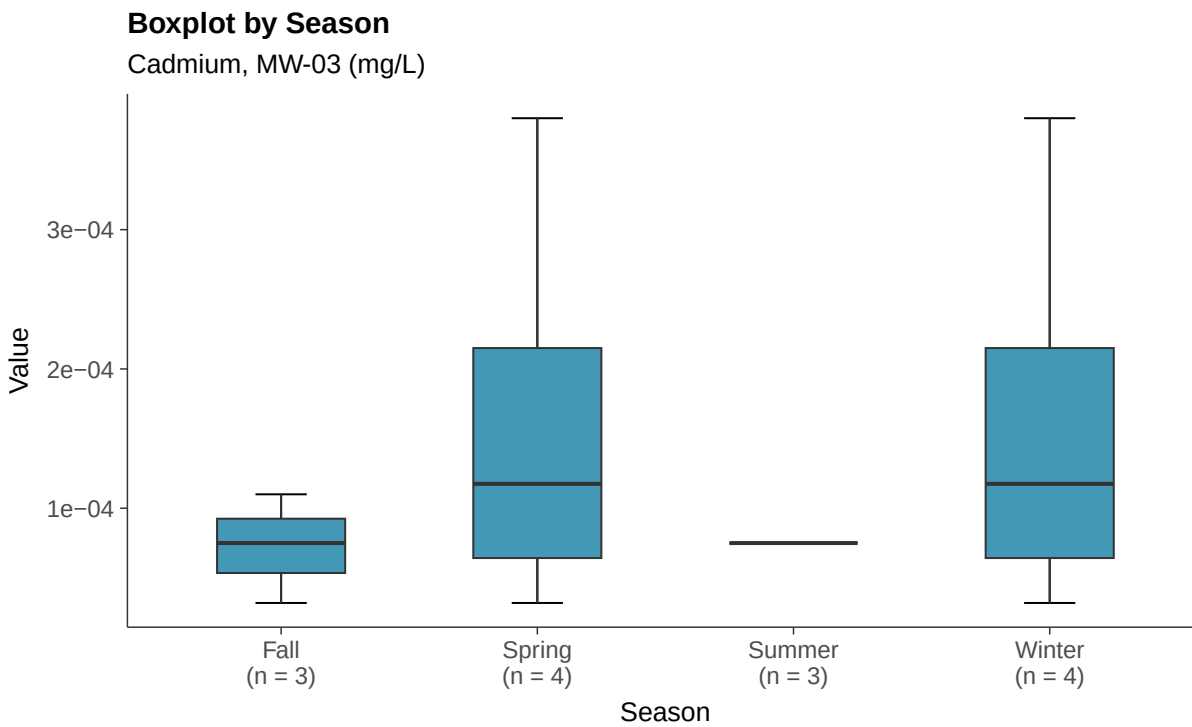
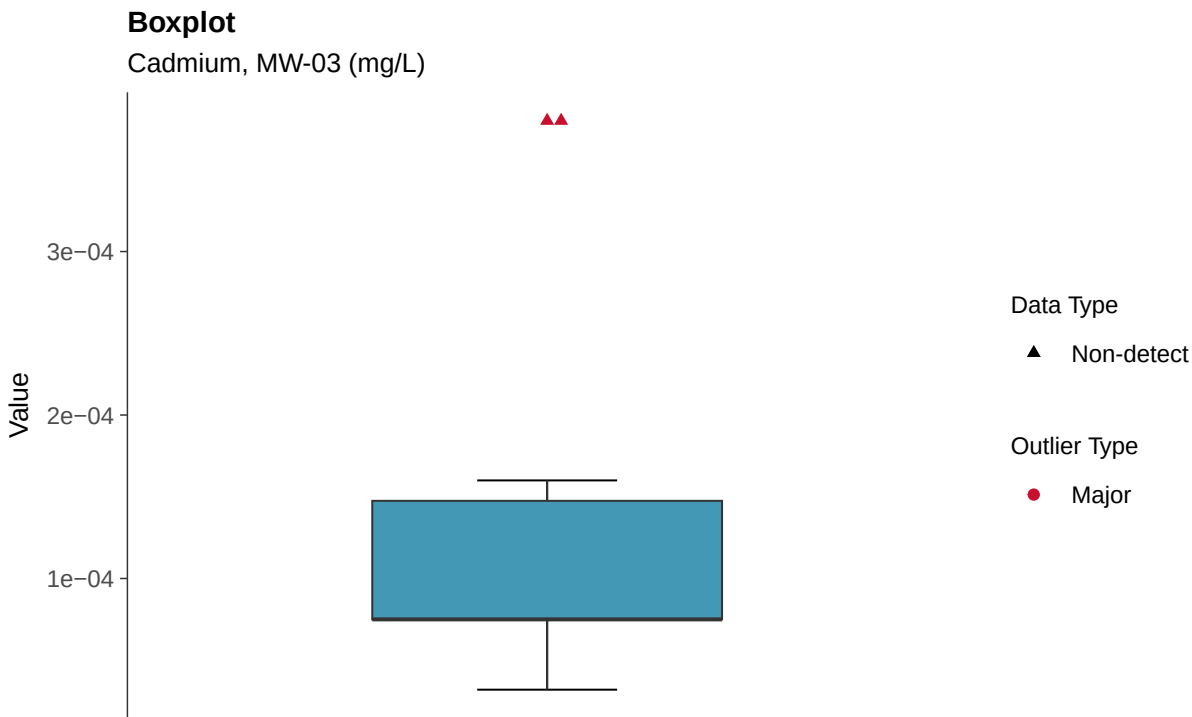


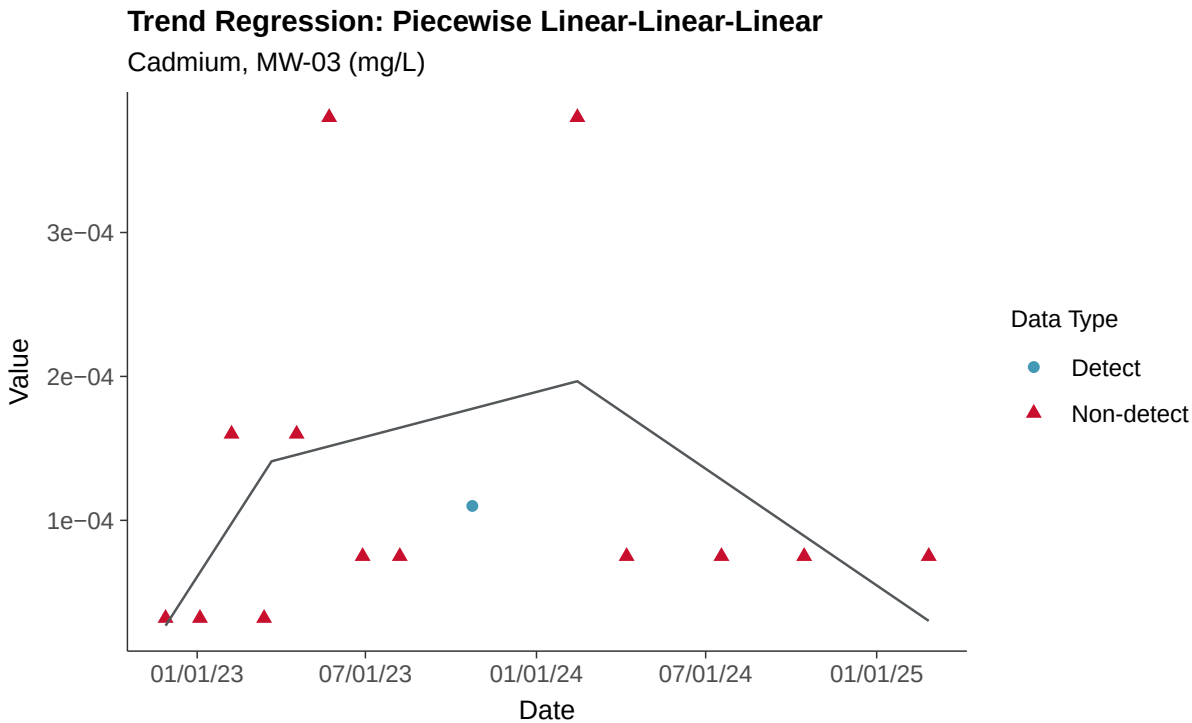
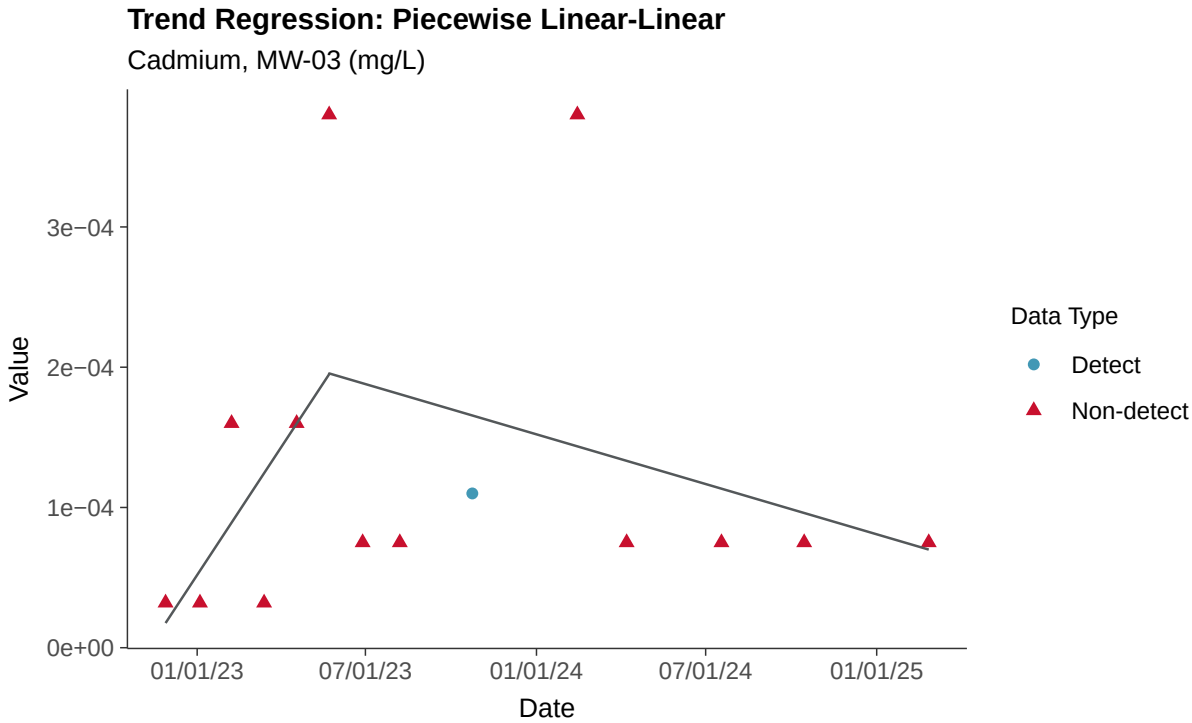


Appendix IV: Cadmium, MW-03

ID: 13_2_4_106



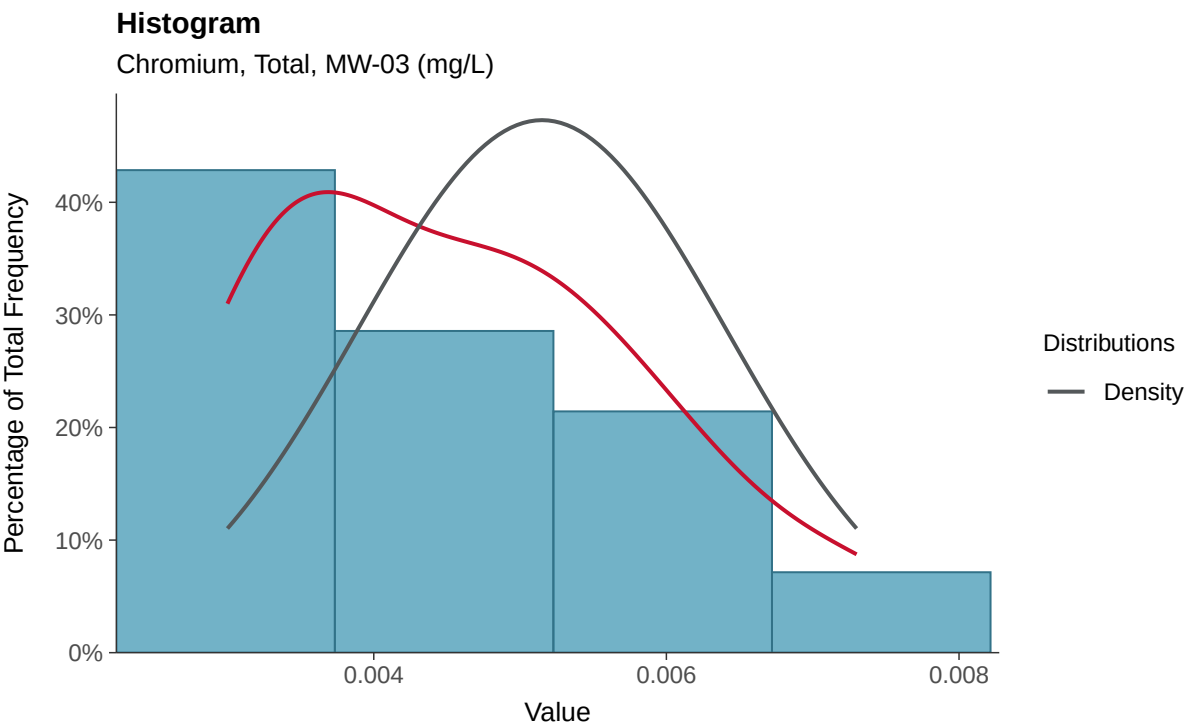
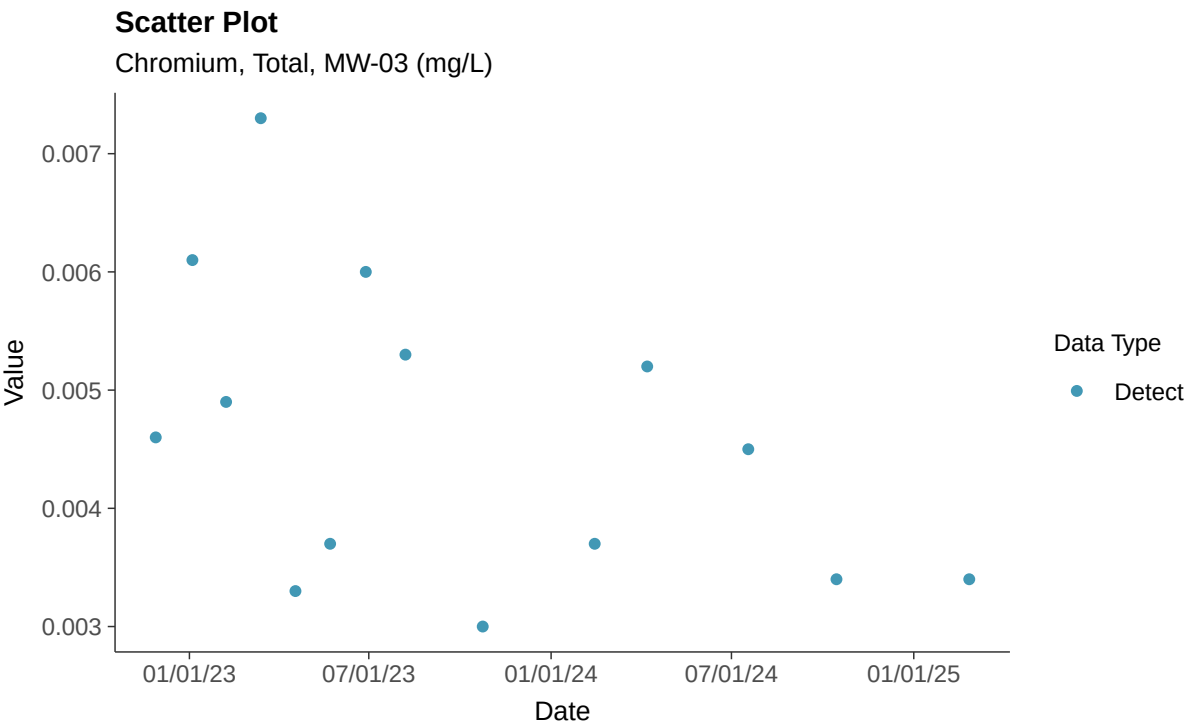


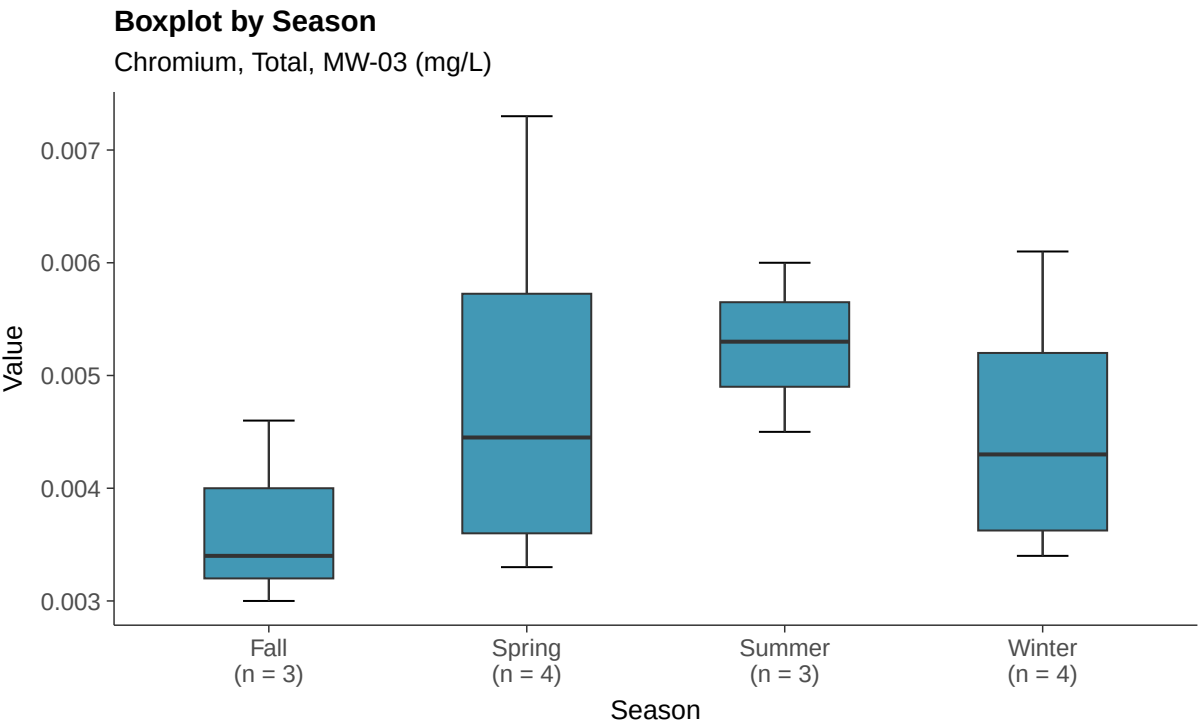
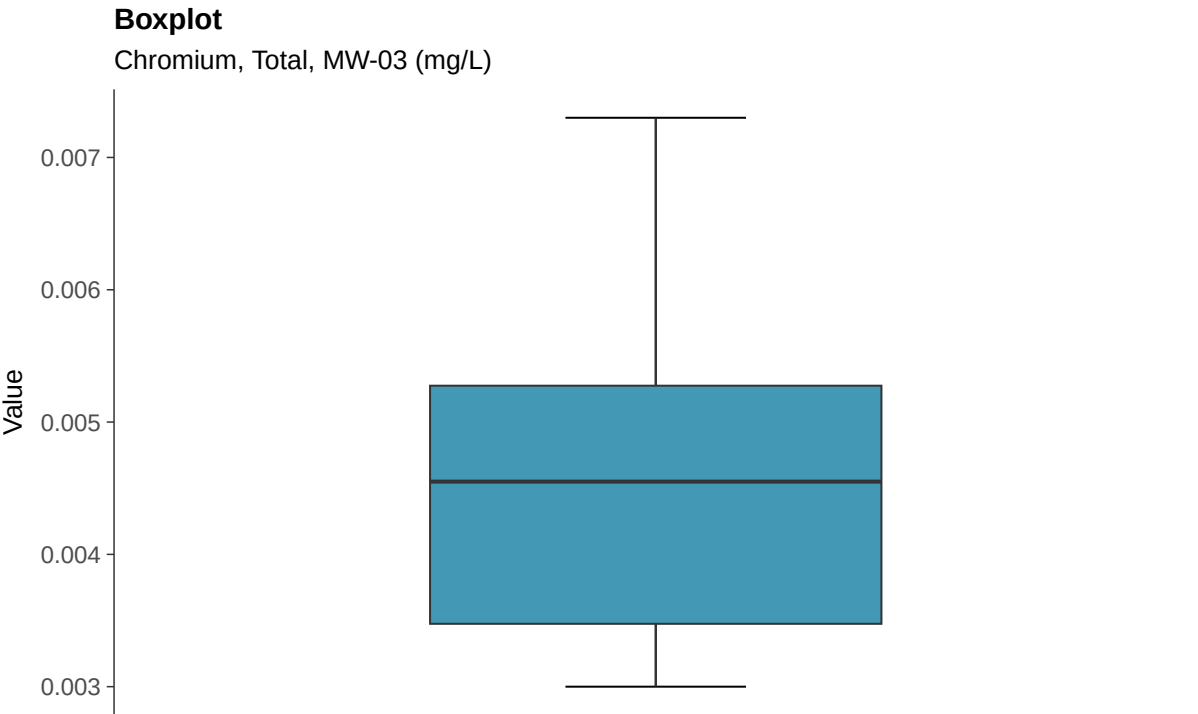


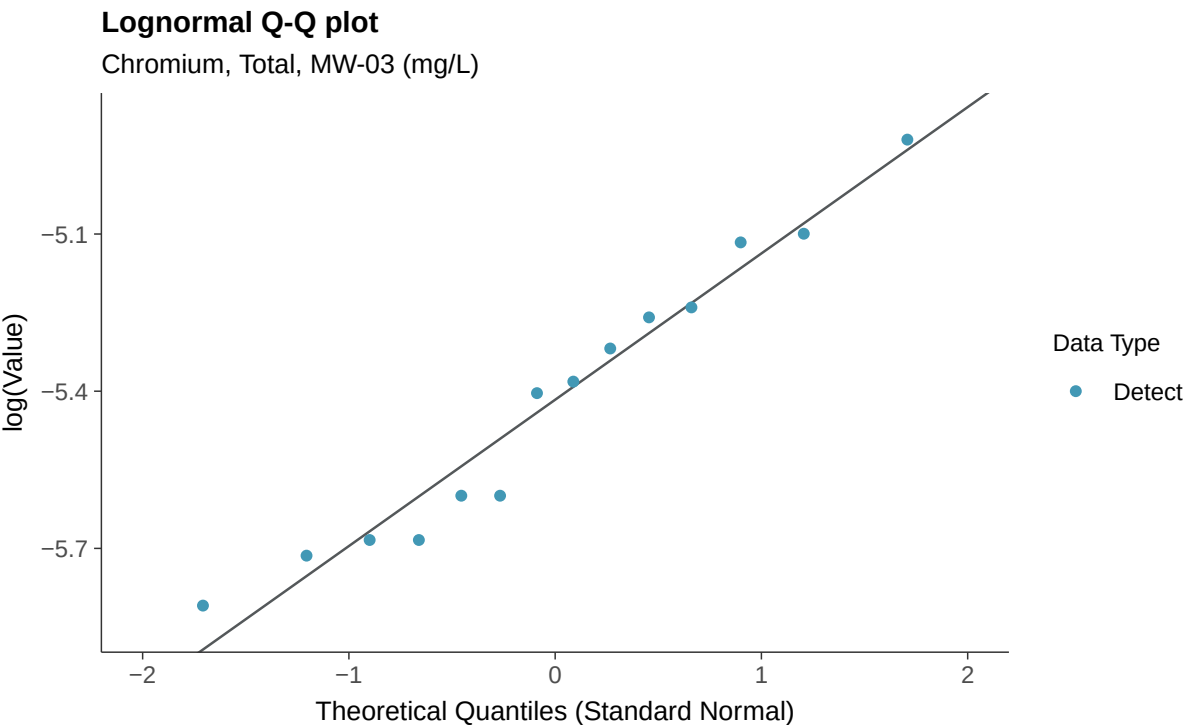
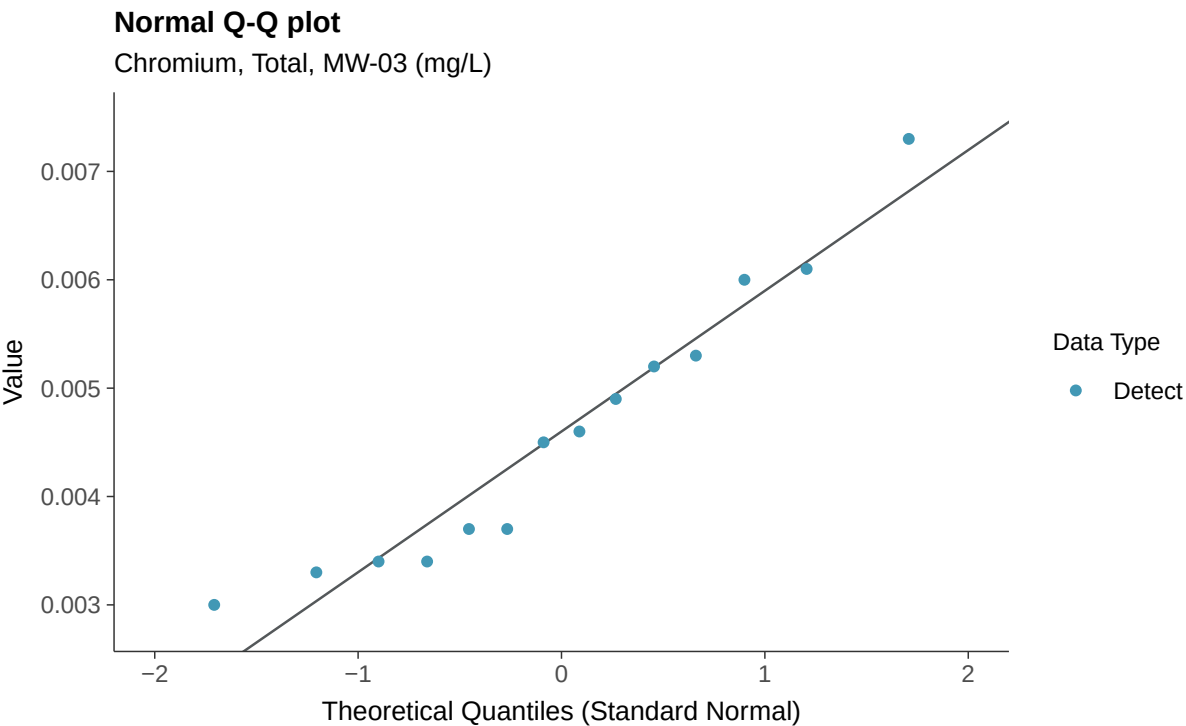


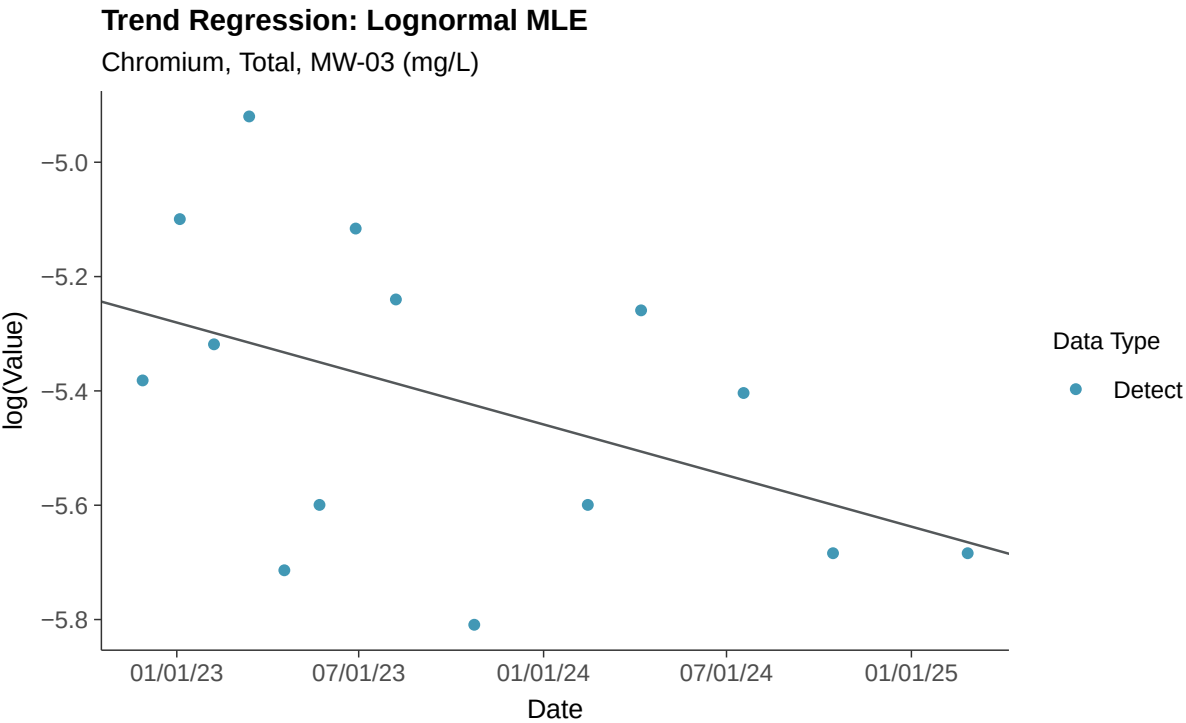
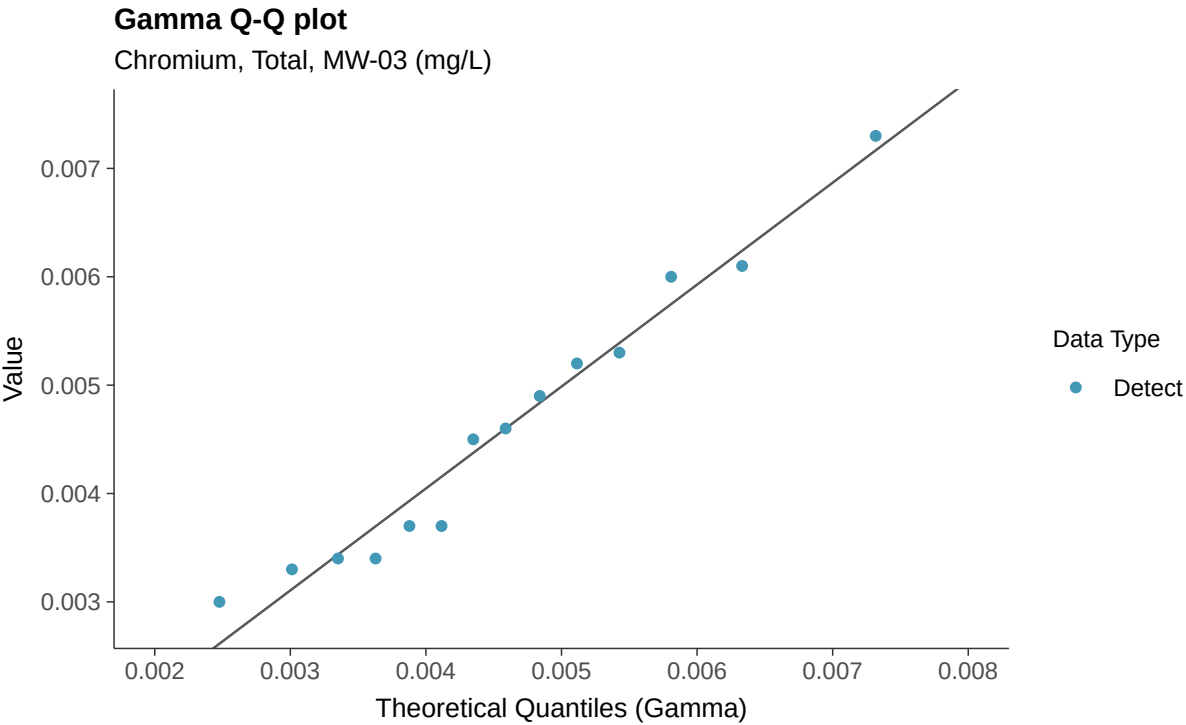
Appendix IV: Chromium, Total, MW-03

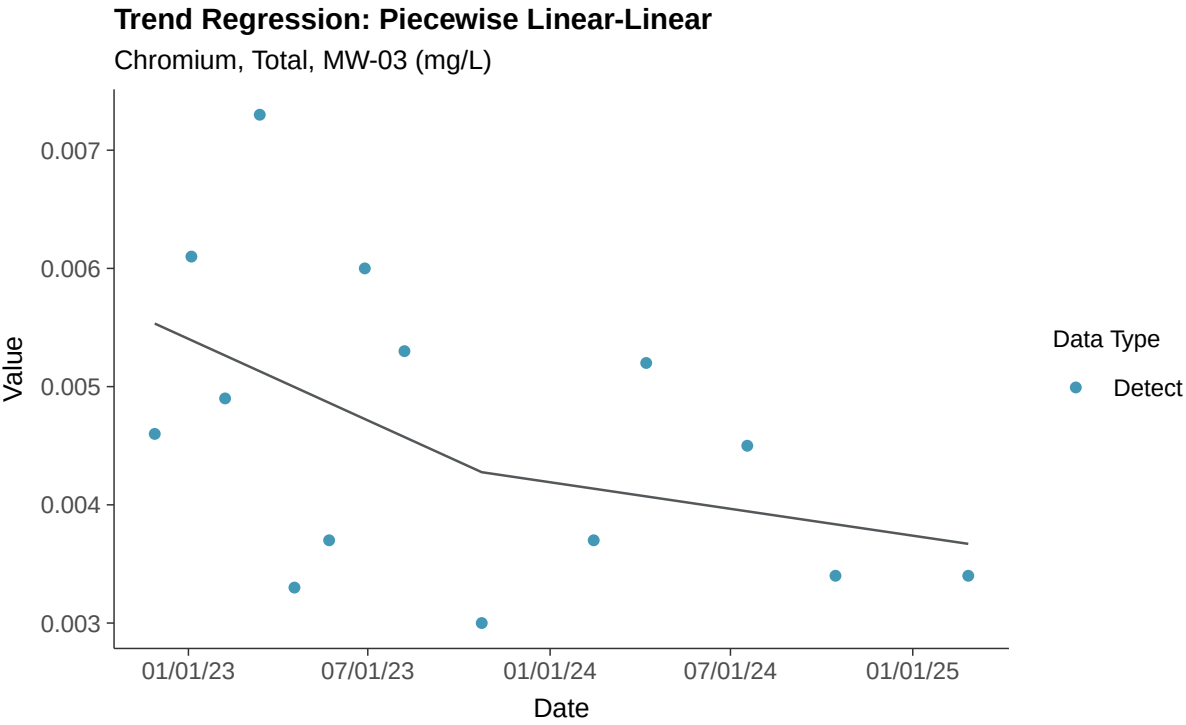
ID: 13_2_4_109







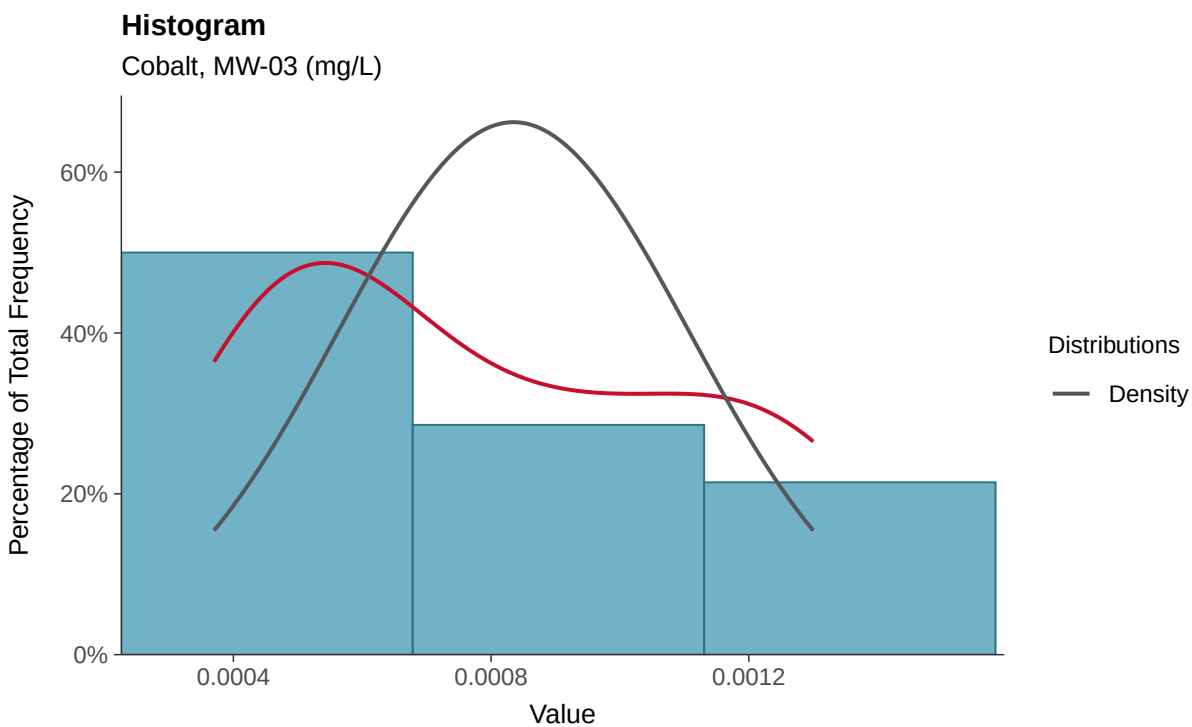
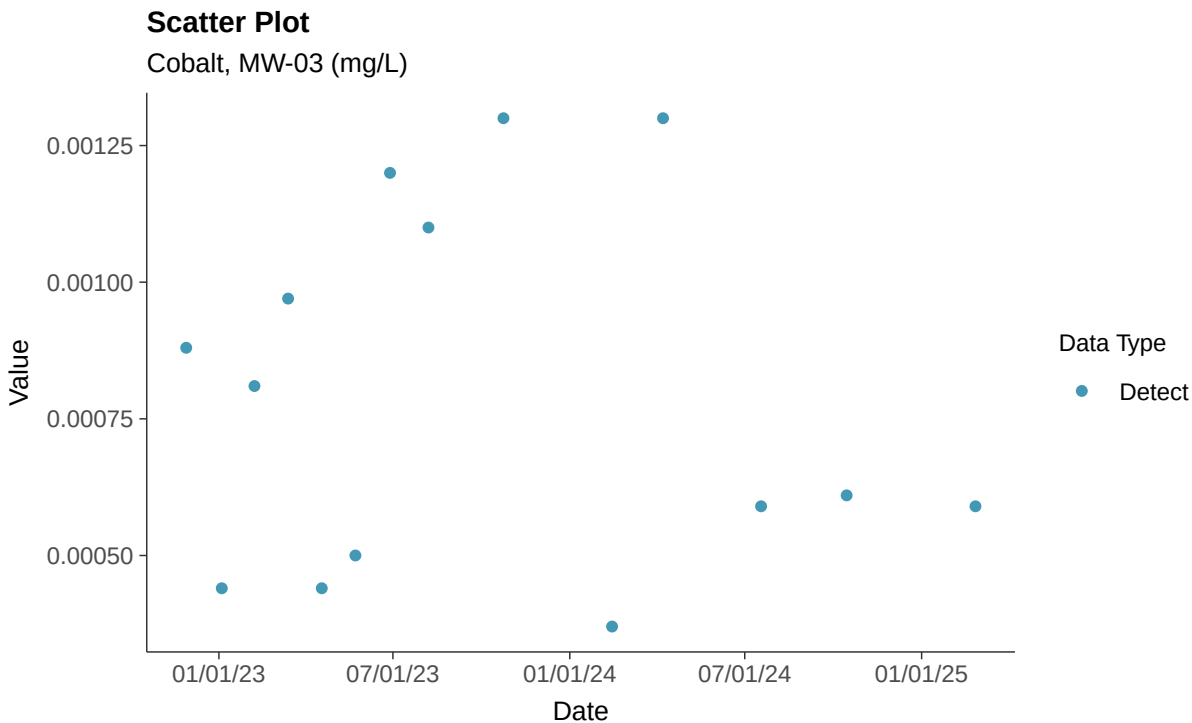


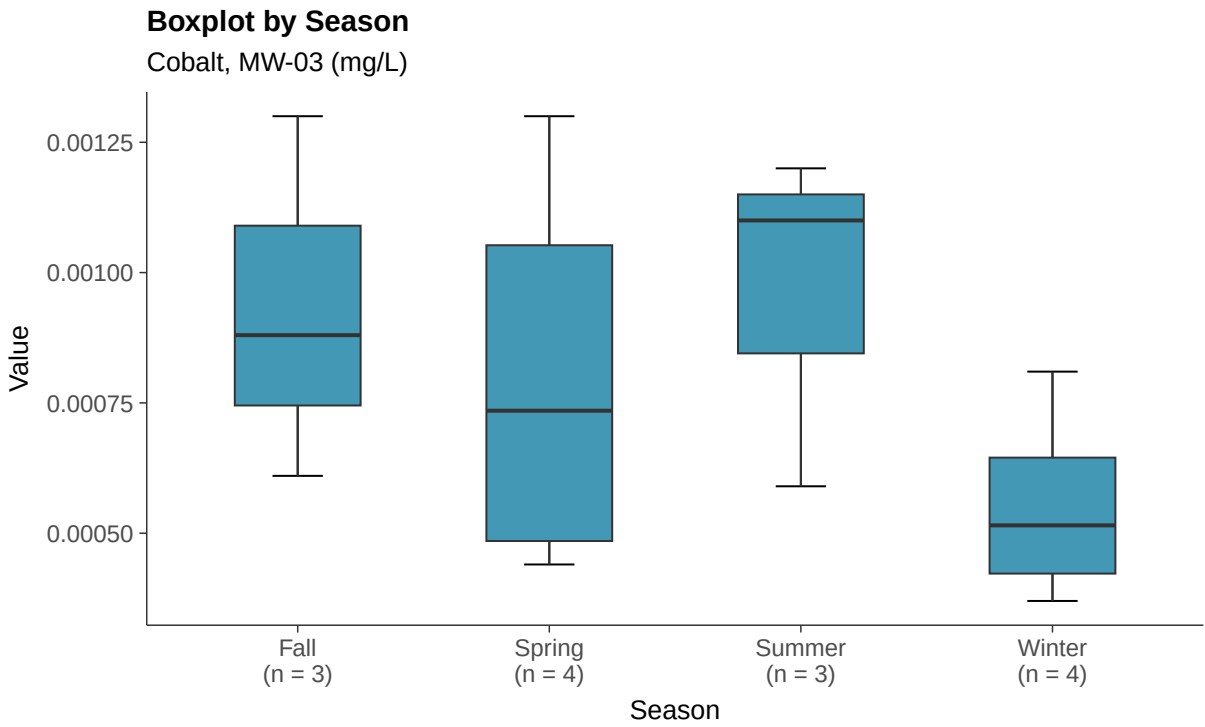
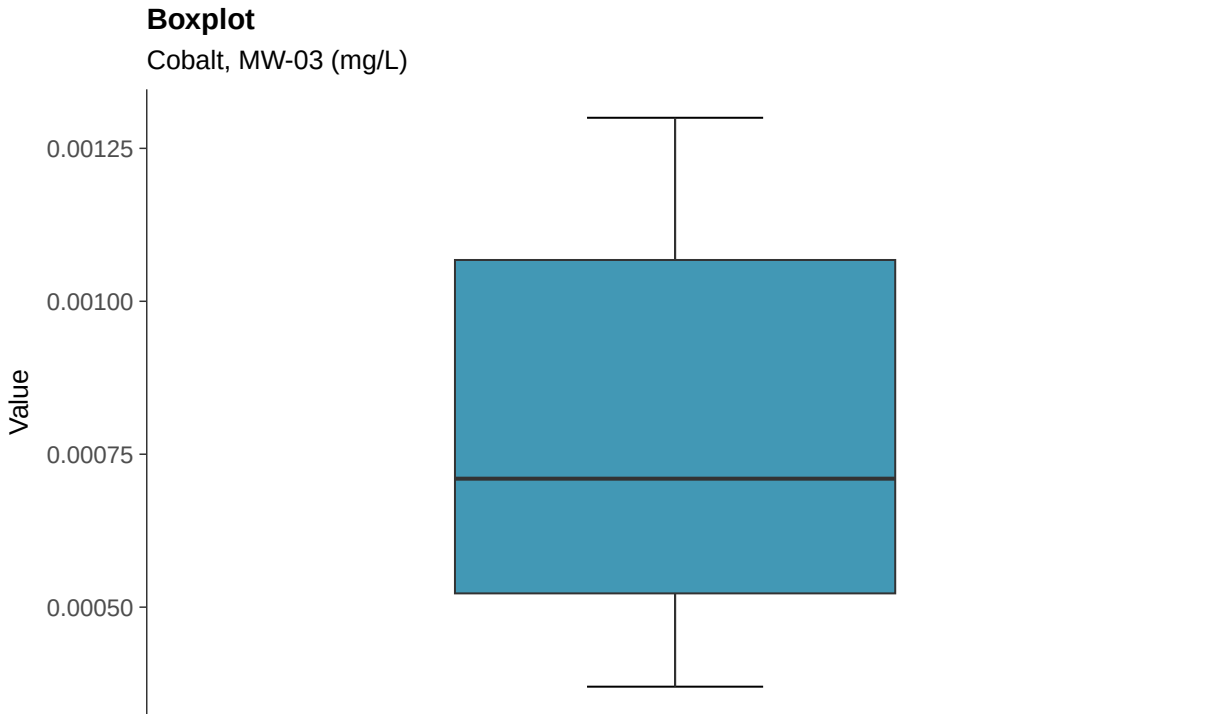


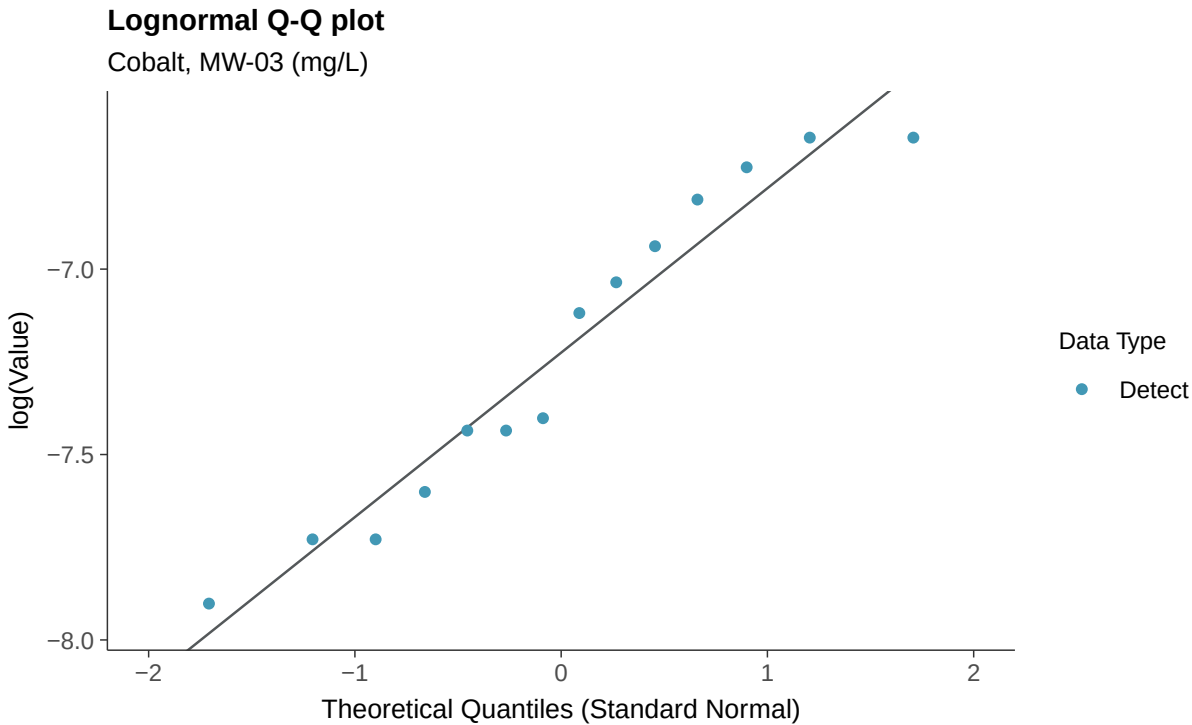
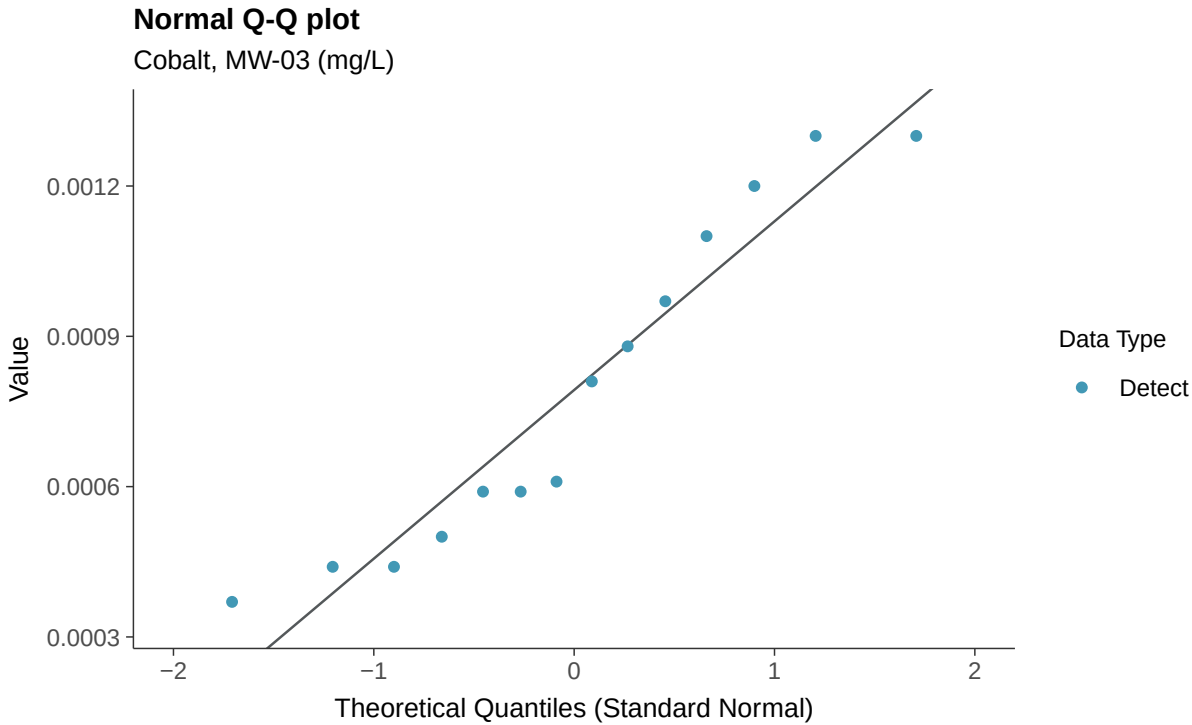


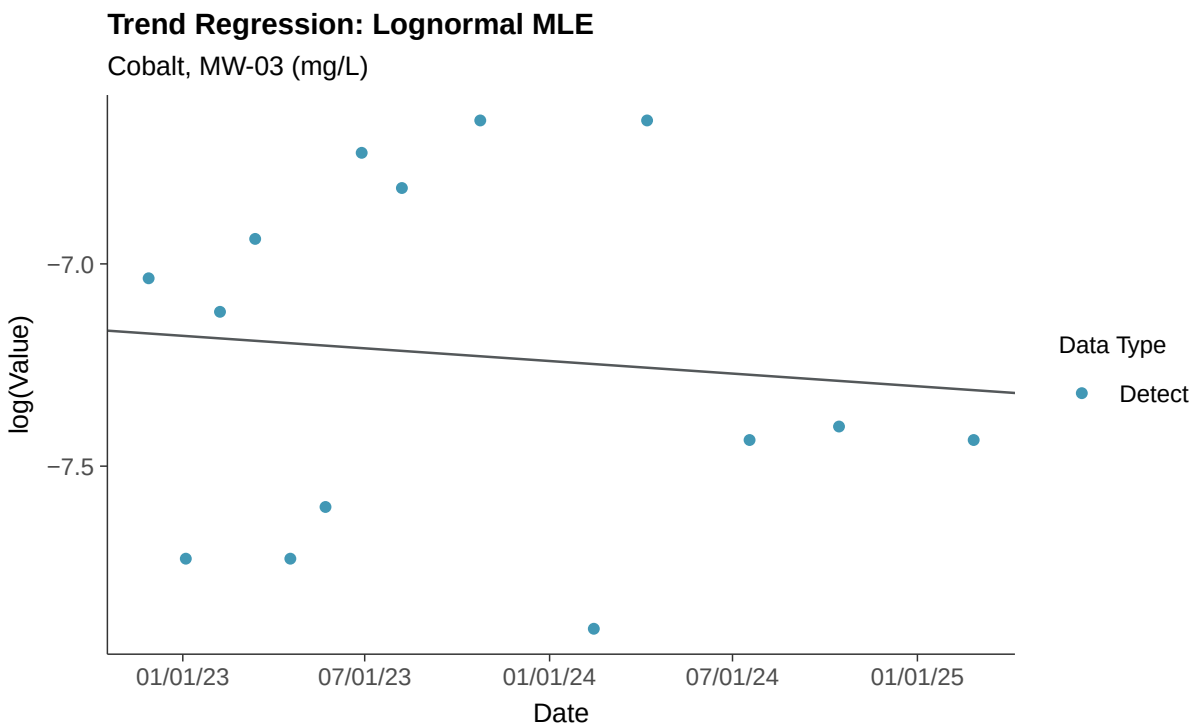
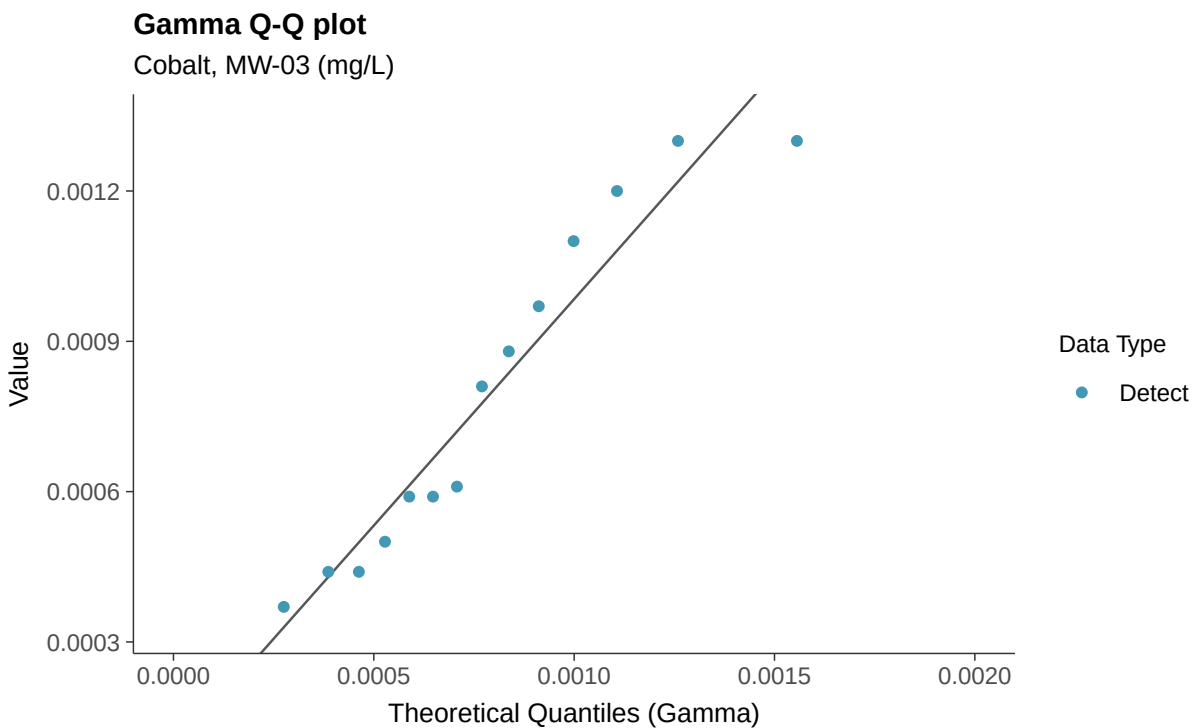
Appendix IV: Cobalt, MW-03

ID: 13_2_4_110



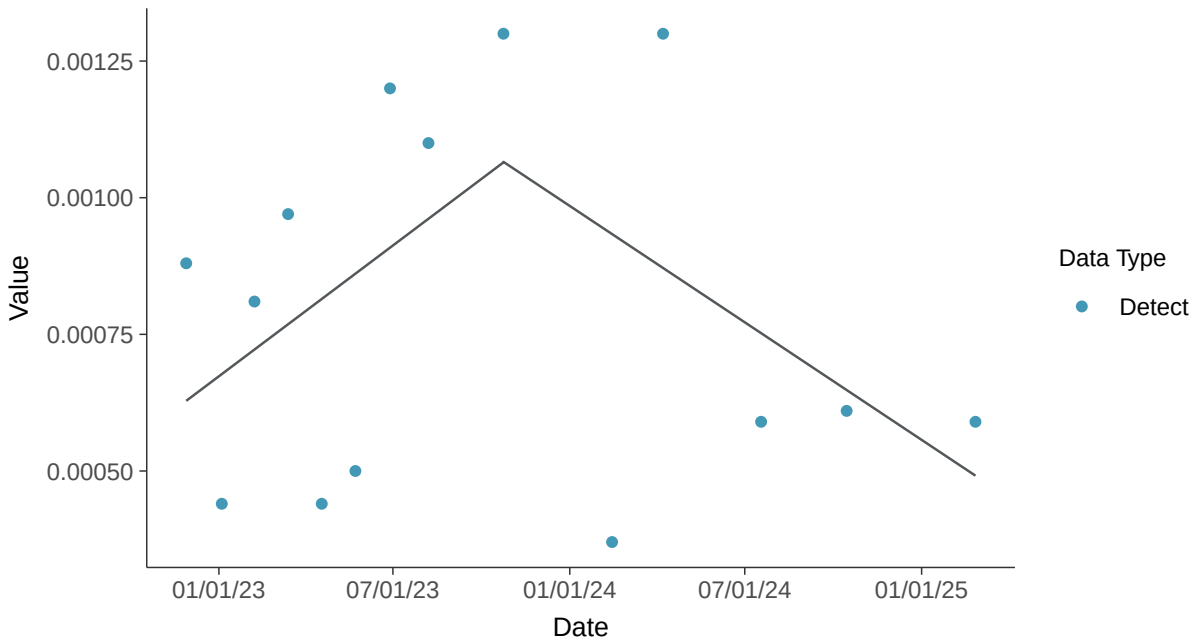




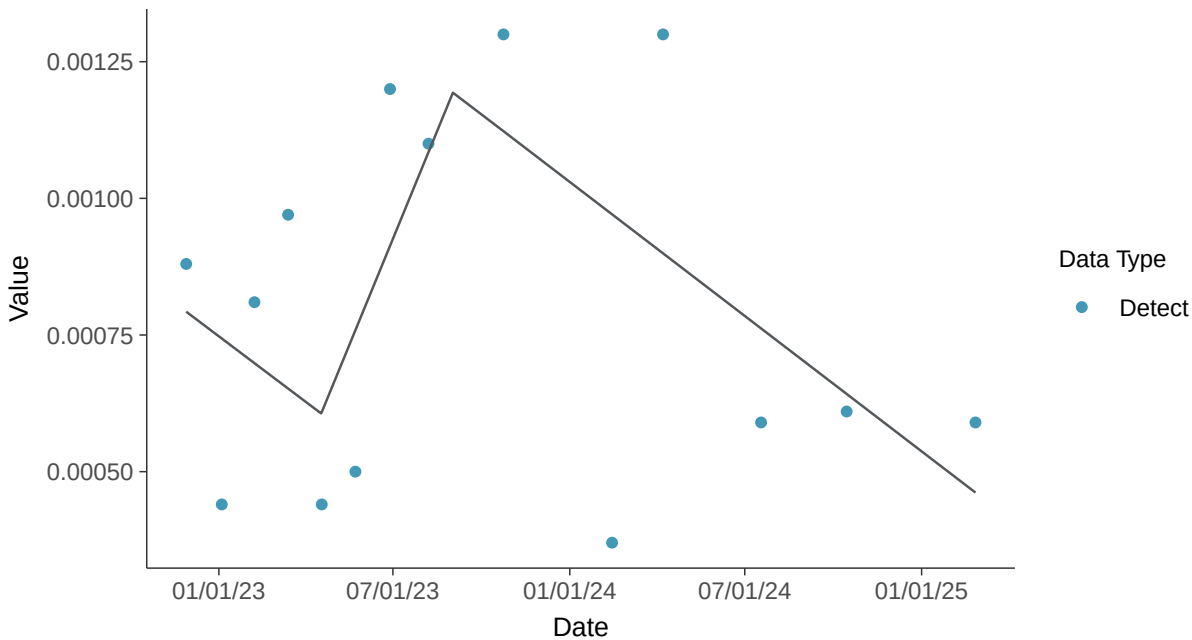




Trend Regression: Piecewise Linear-Linear
Cobalt, MW-03 (mg/L)



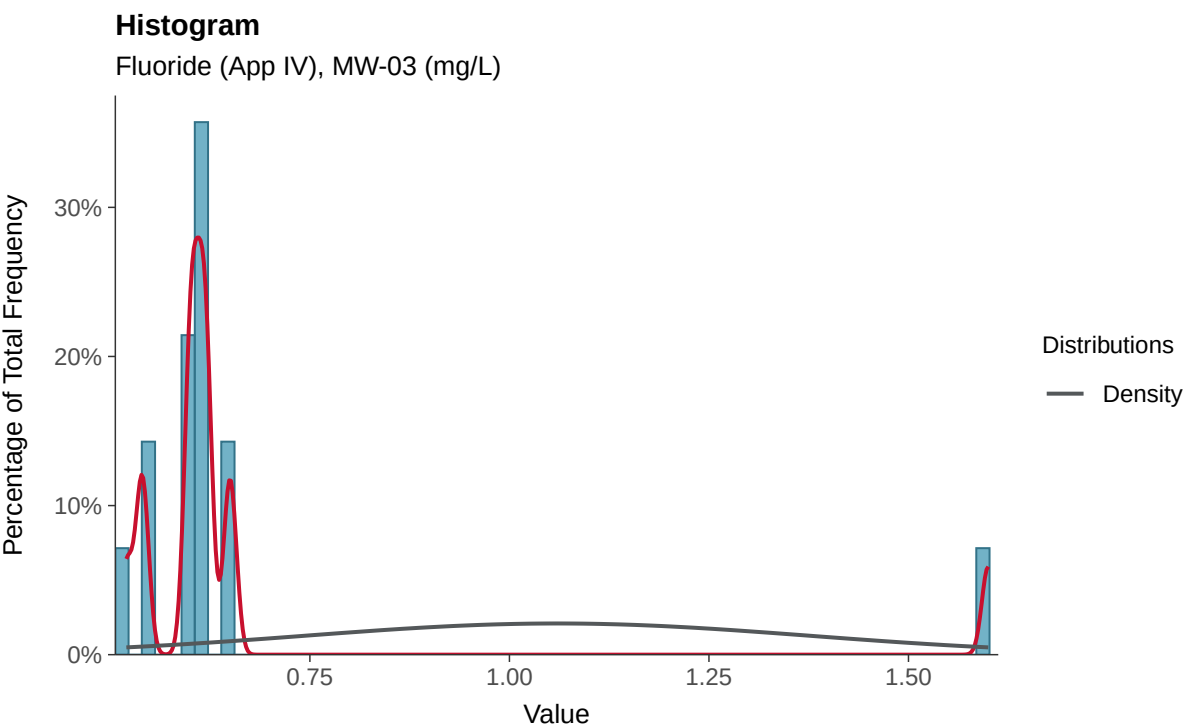
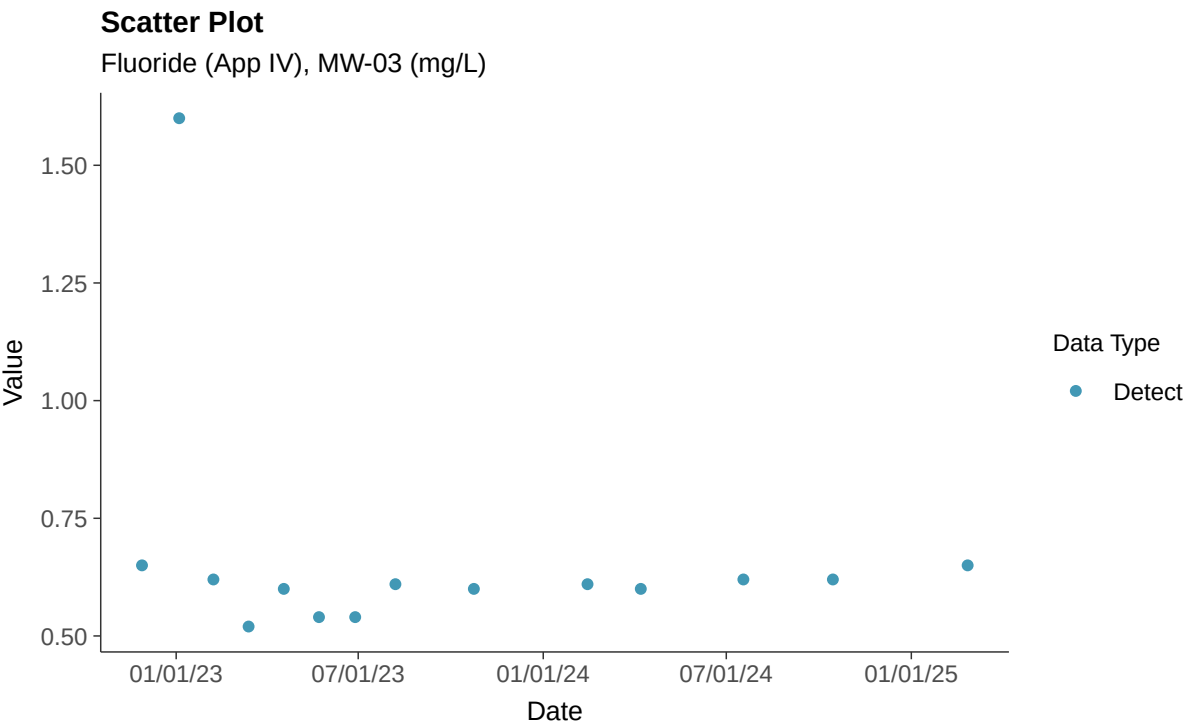
Trend Regression: Piecewise Linear-Linear-Linear
Cobalt, MW-03 (mg/L)

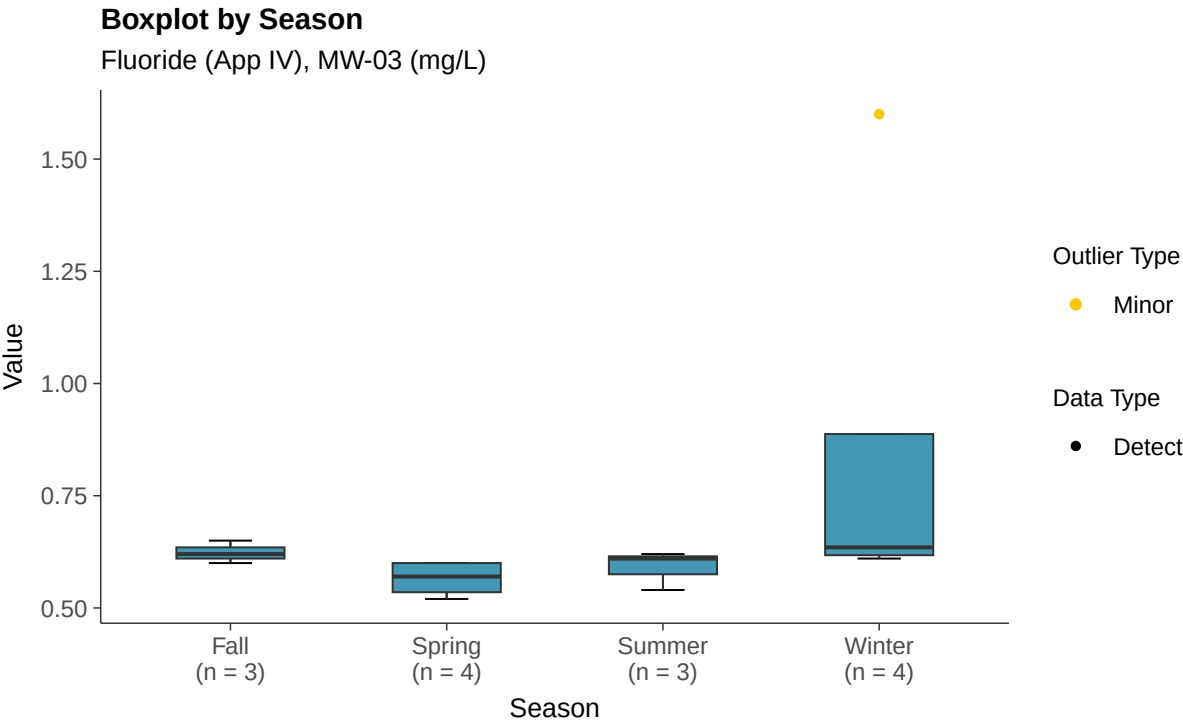
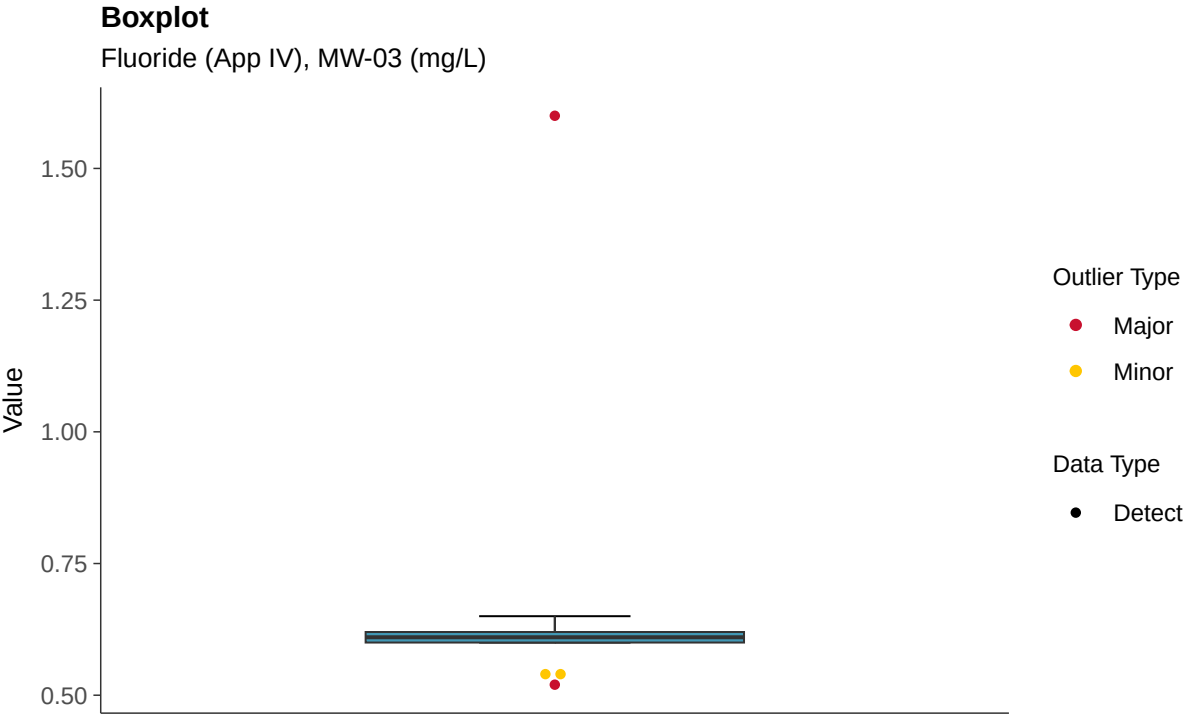


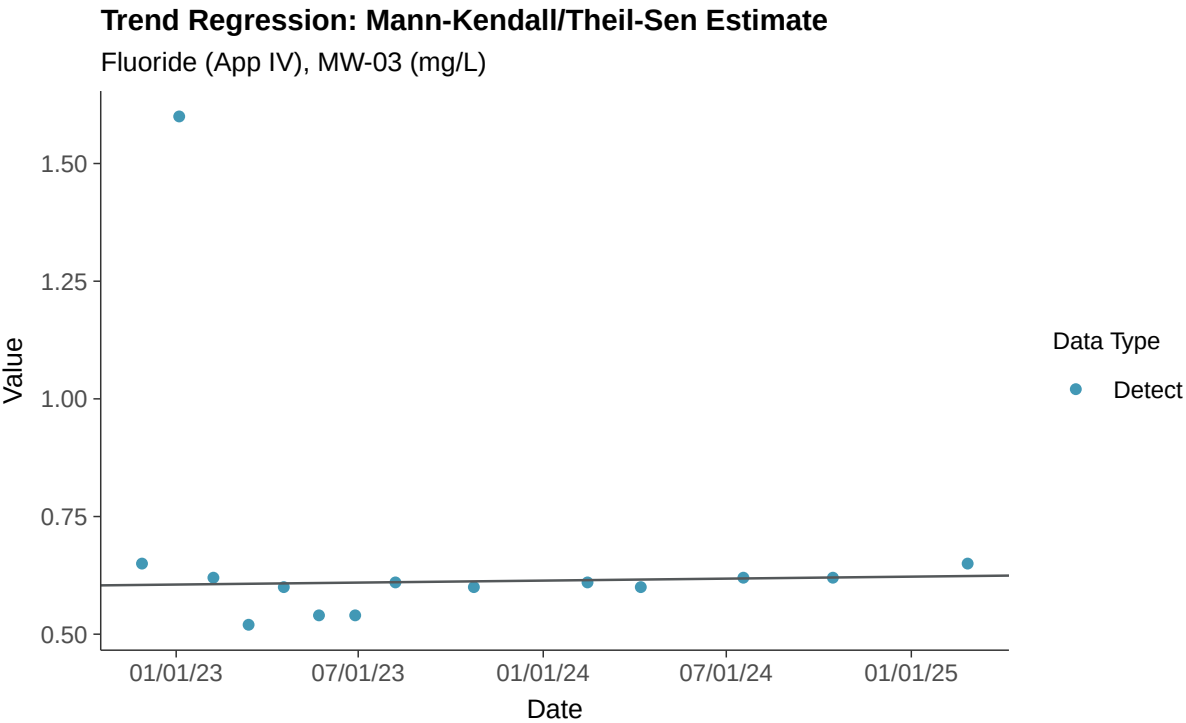
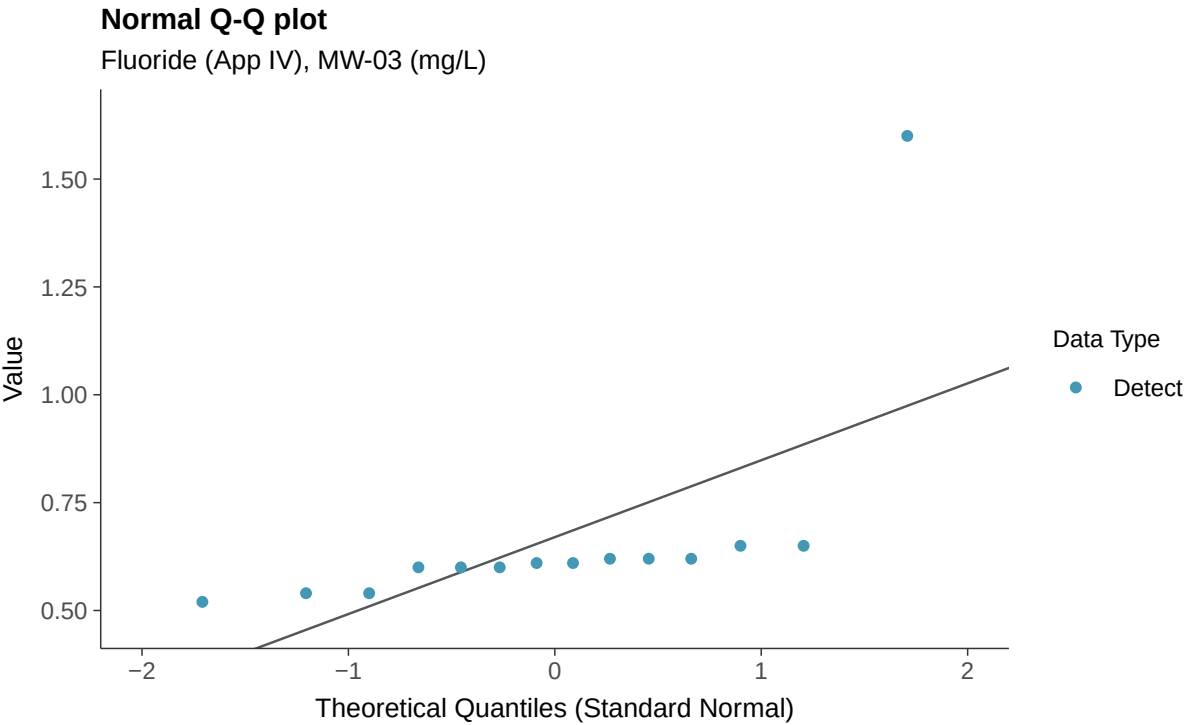


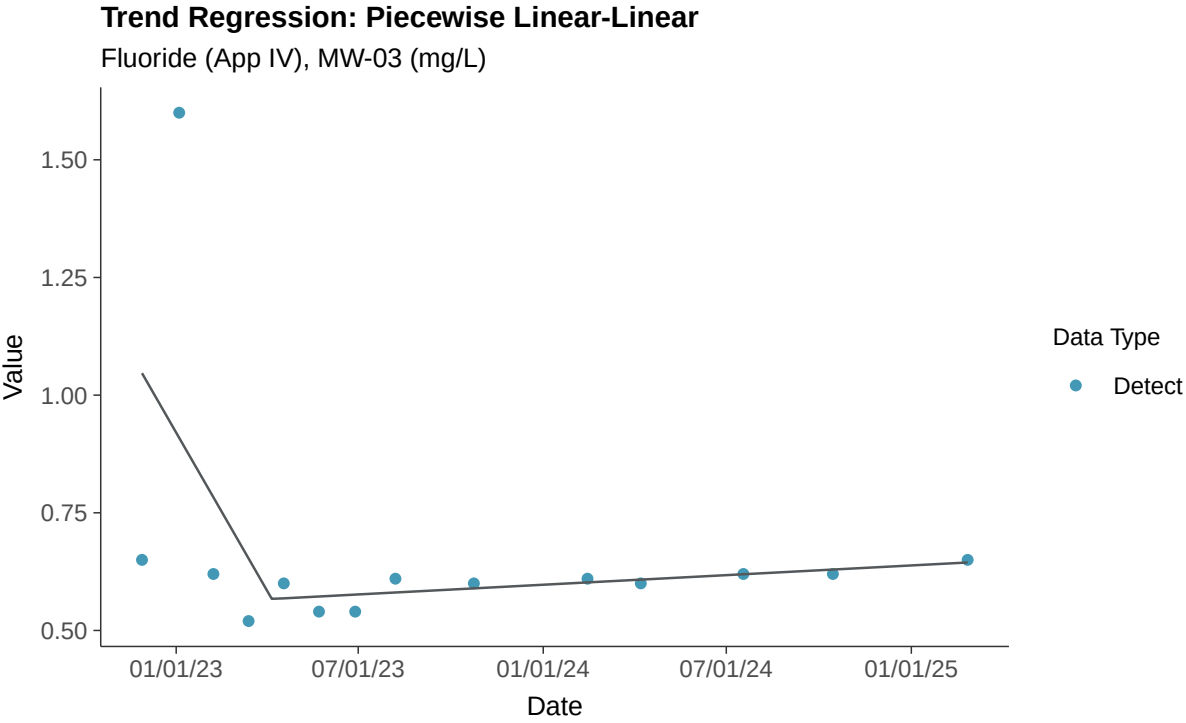
Appendix IV: Fluoride (App IV), MW-03

ID: 13_2_4_113





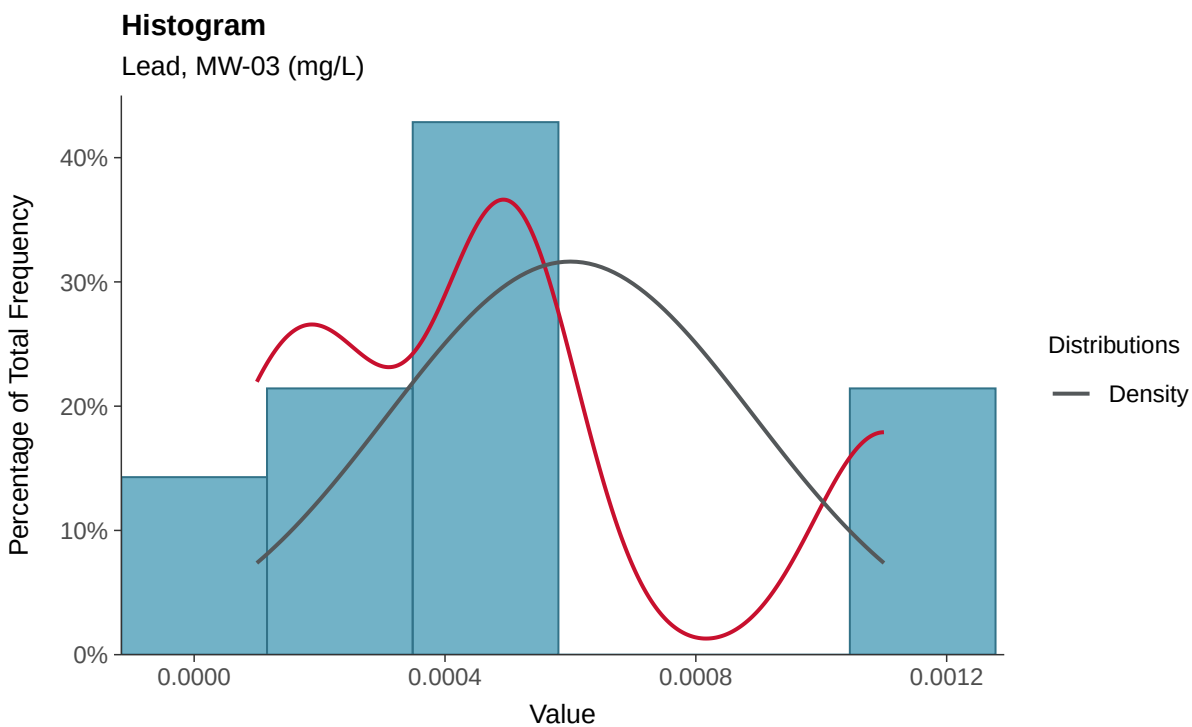
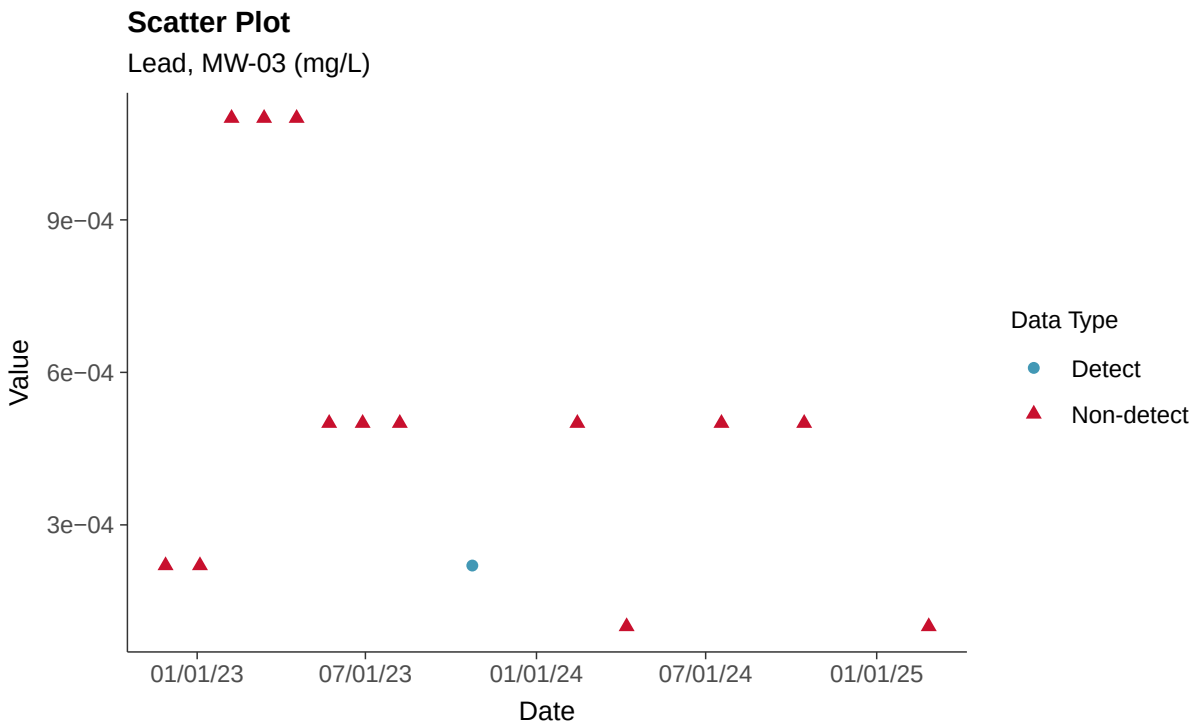


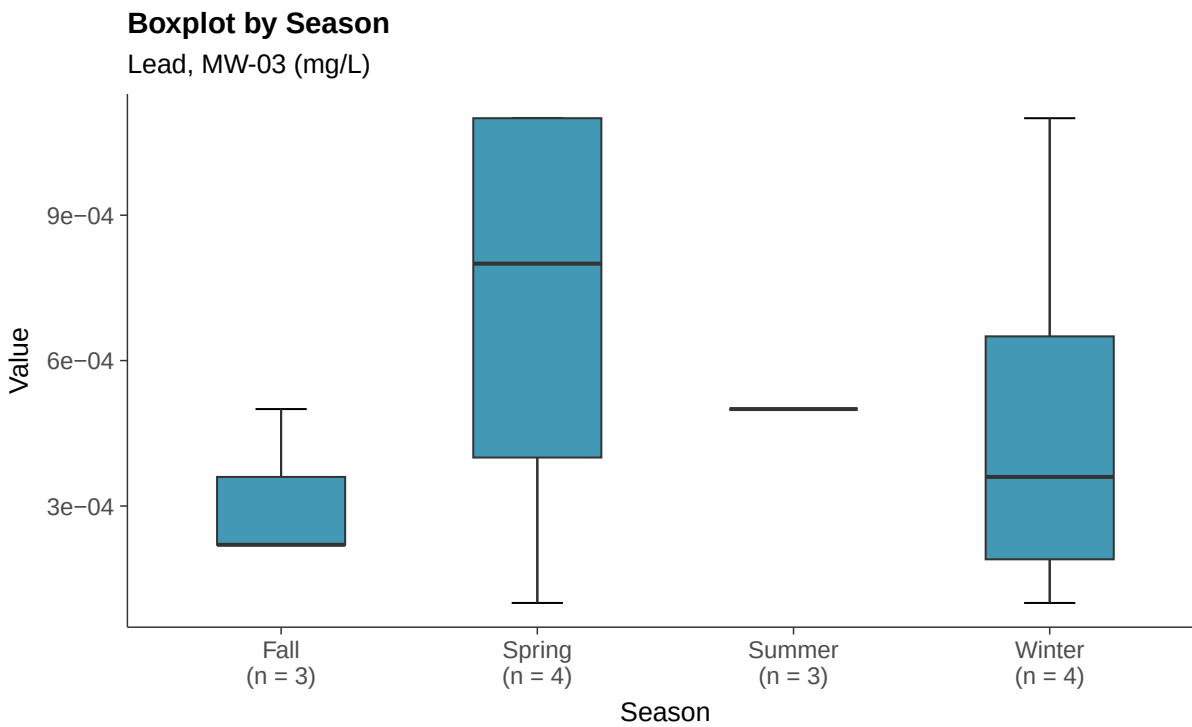
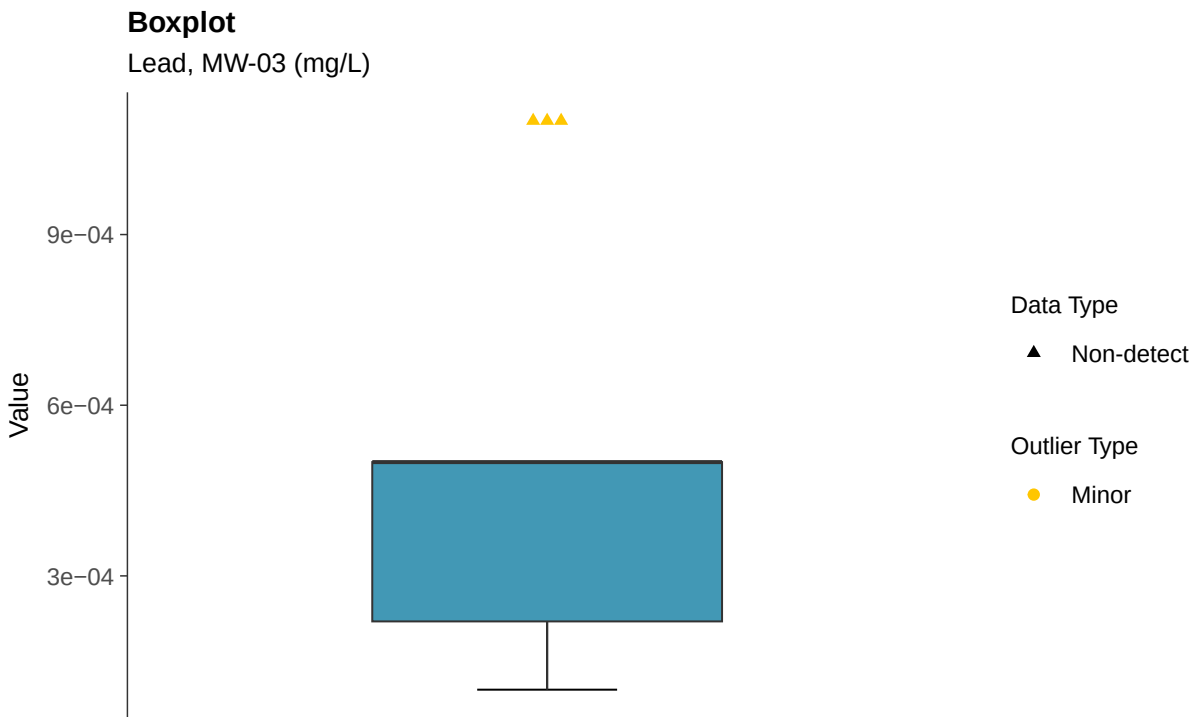


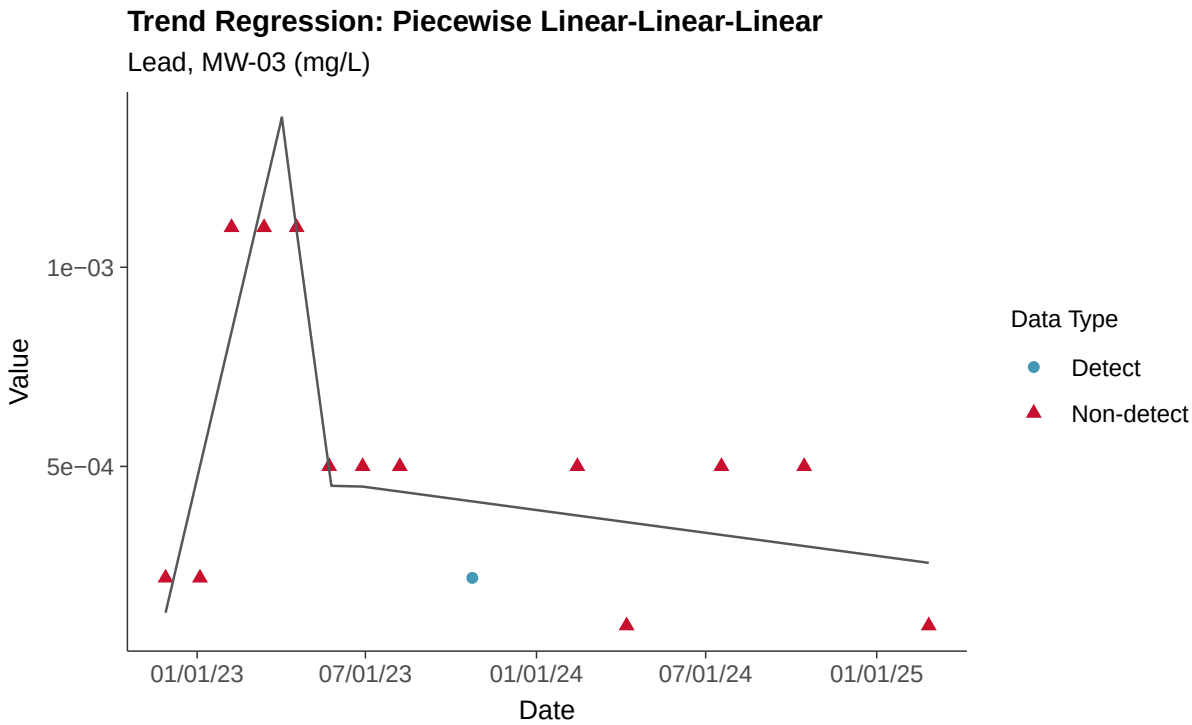
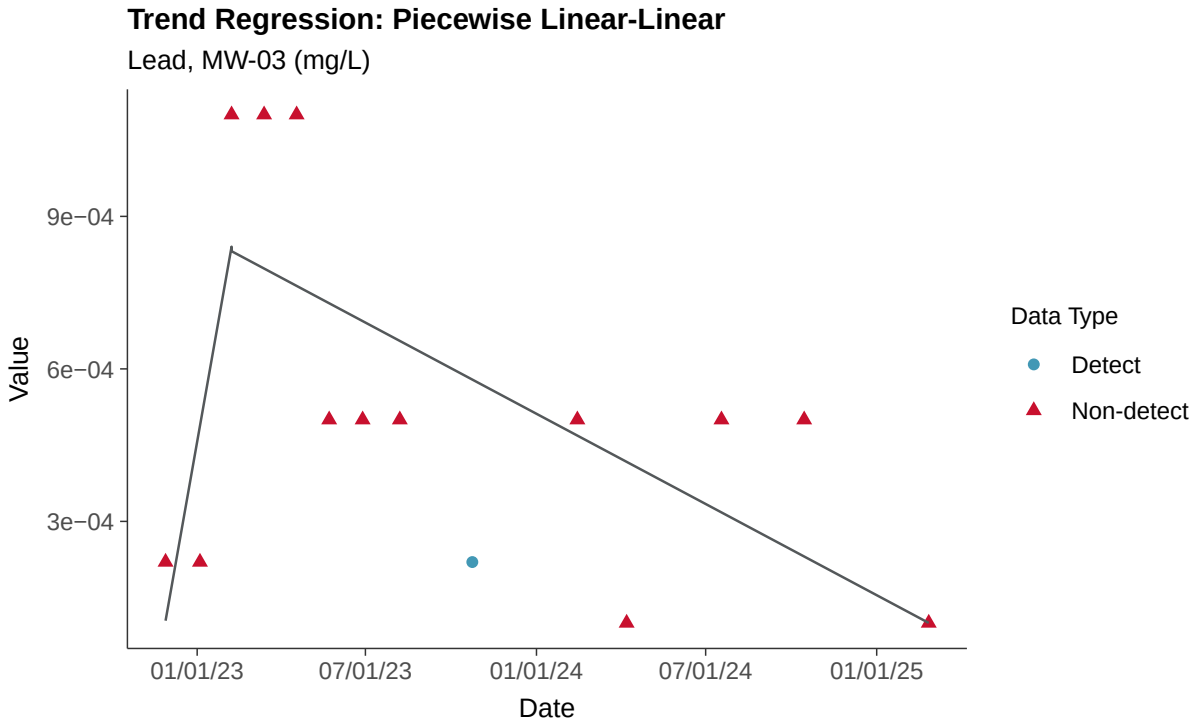


Appendix IV: Lead, MW-03

ID: 13_2_4_115



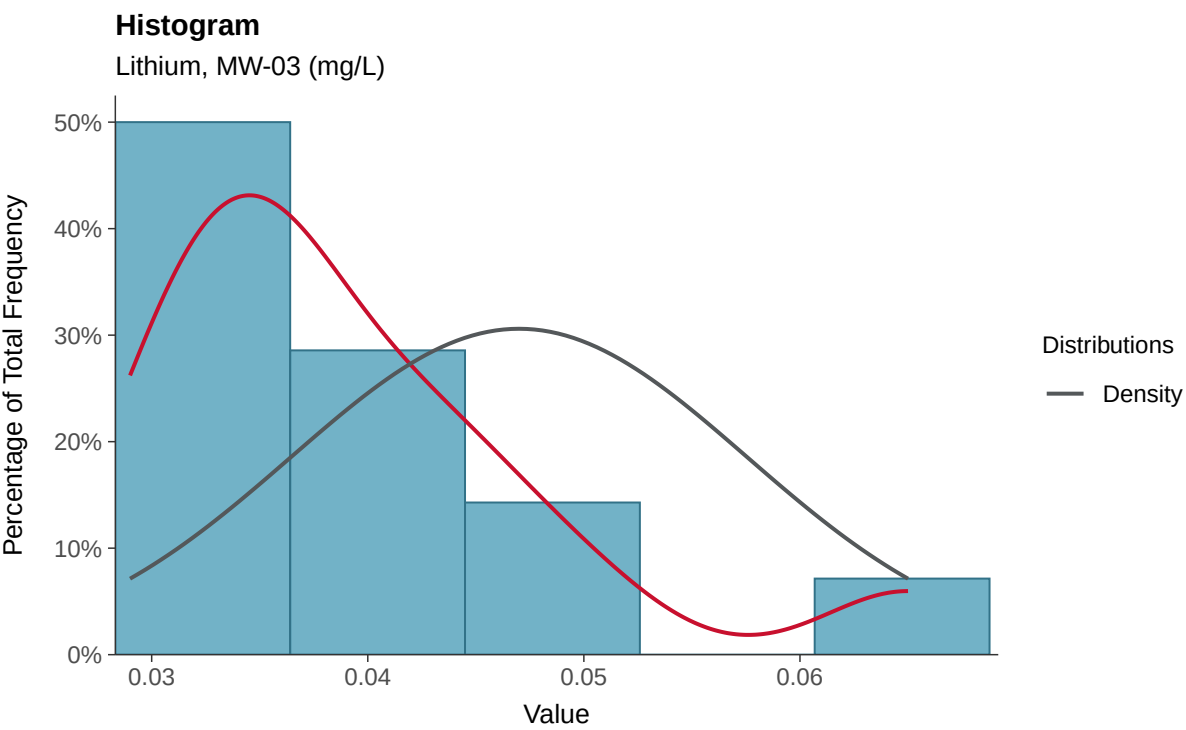
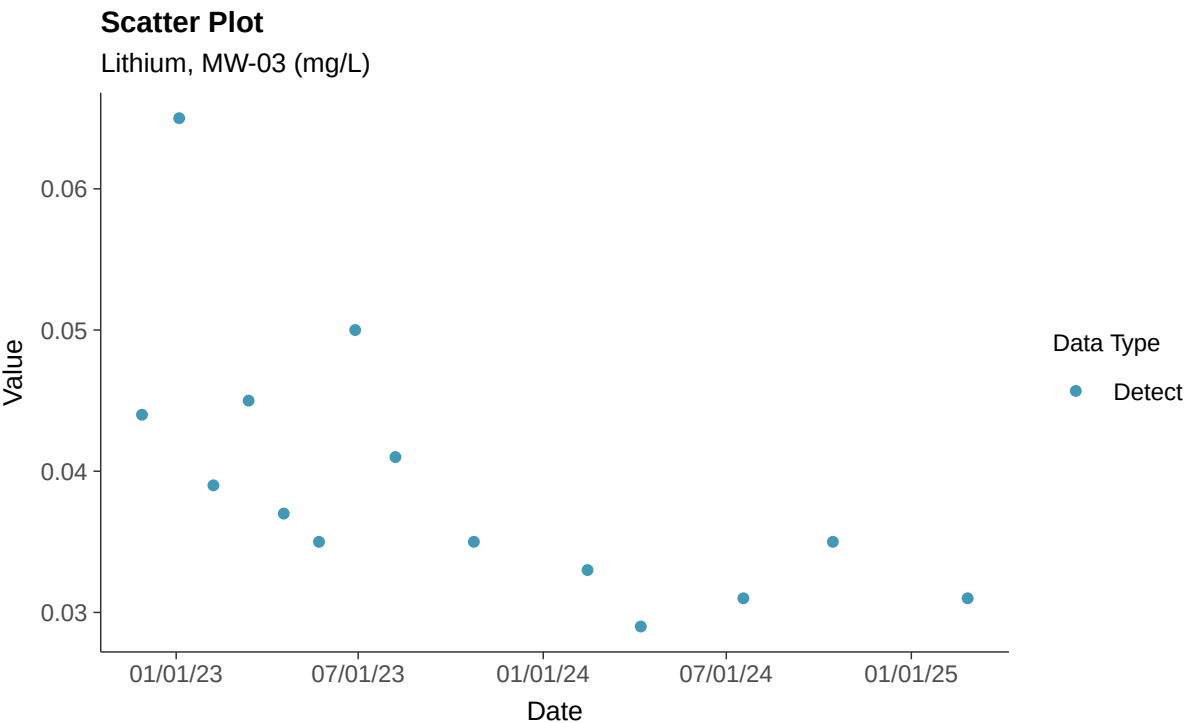


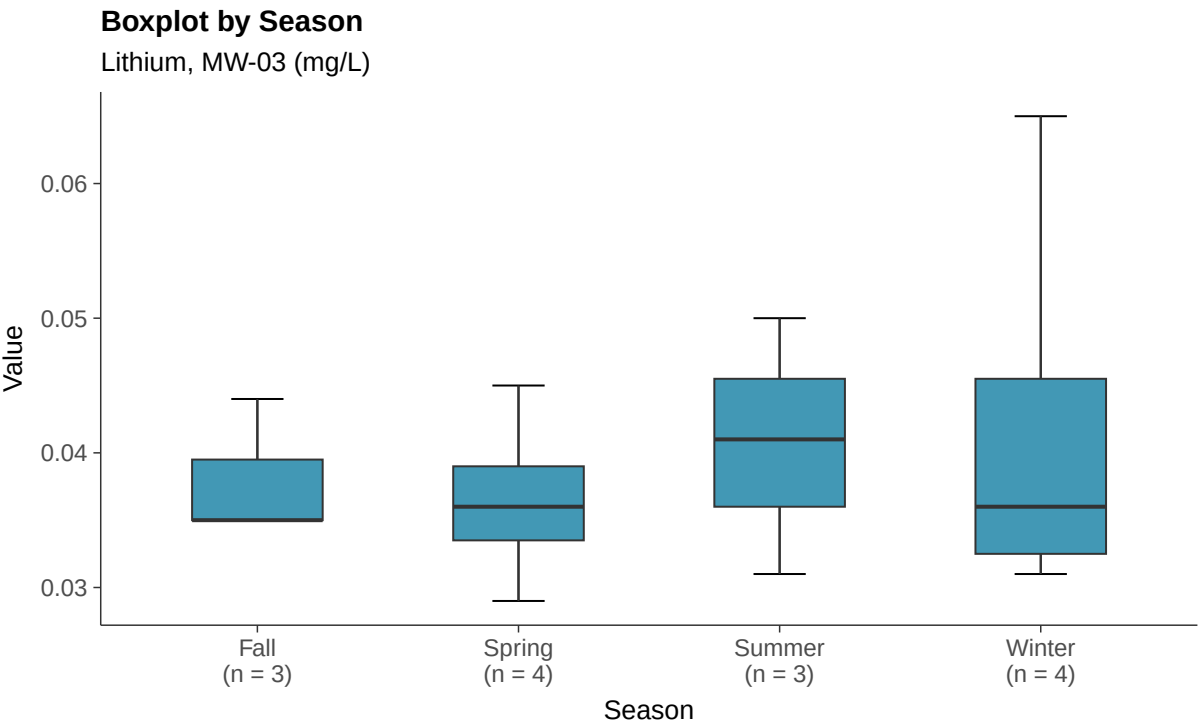
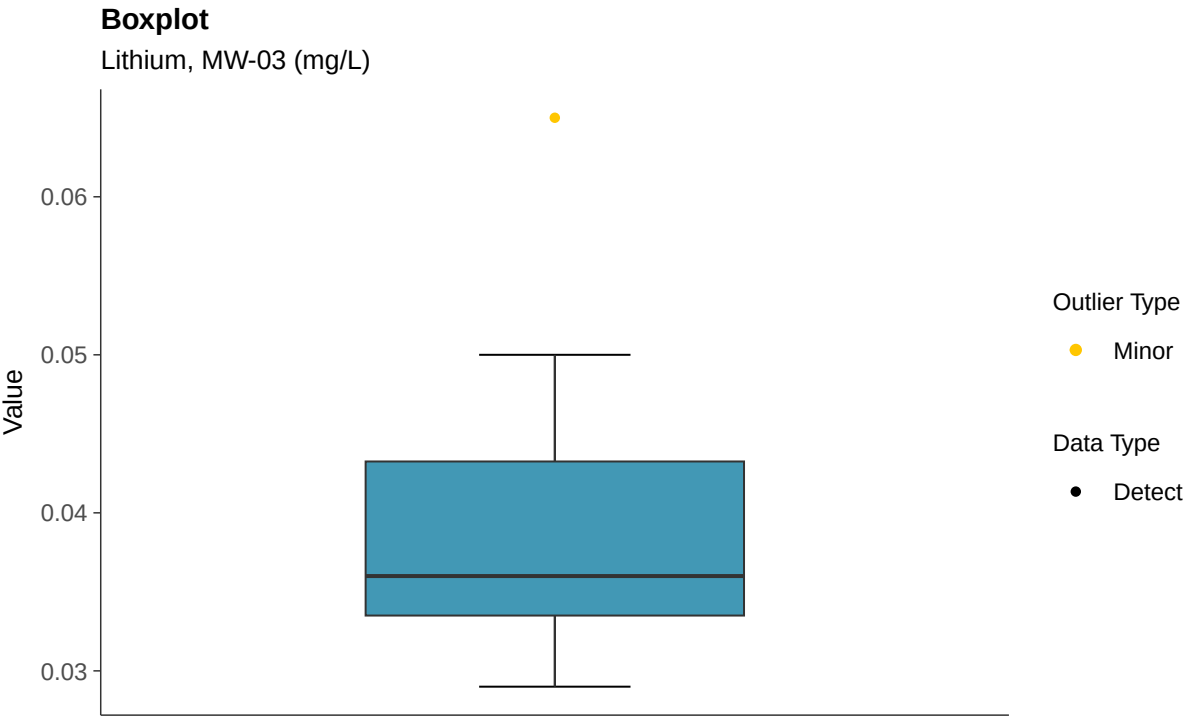


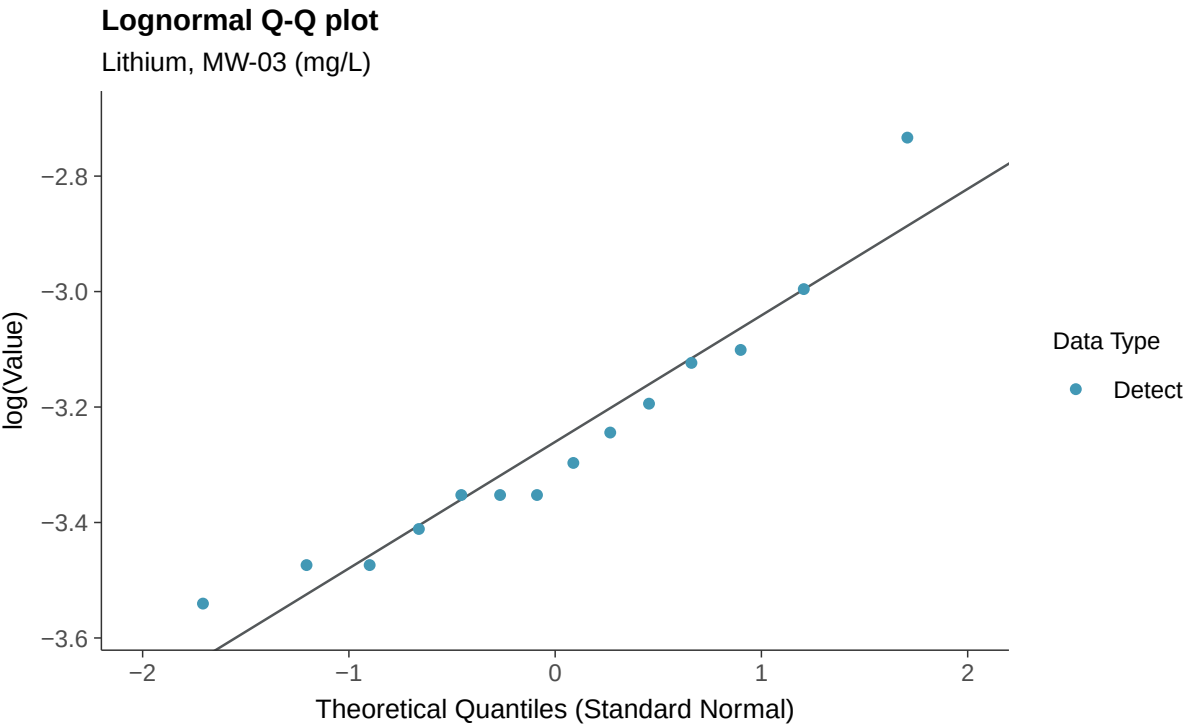
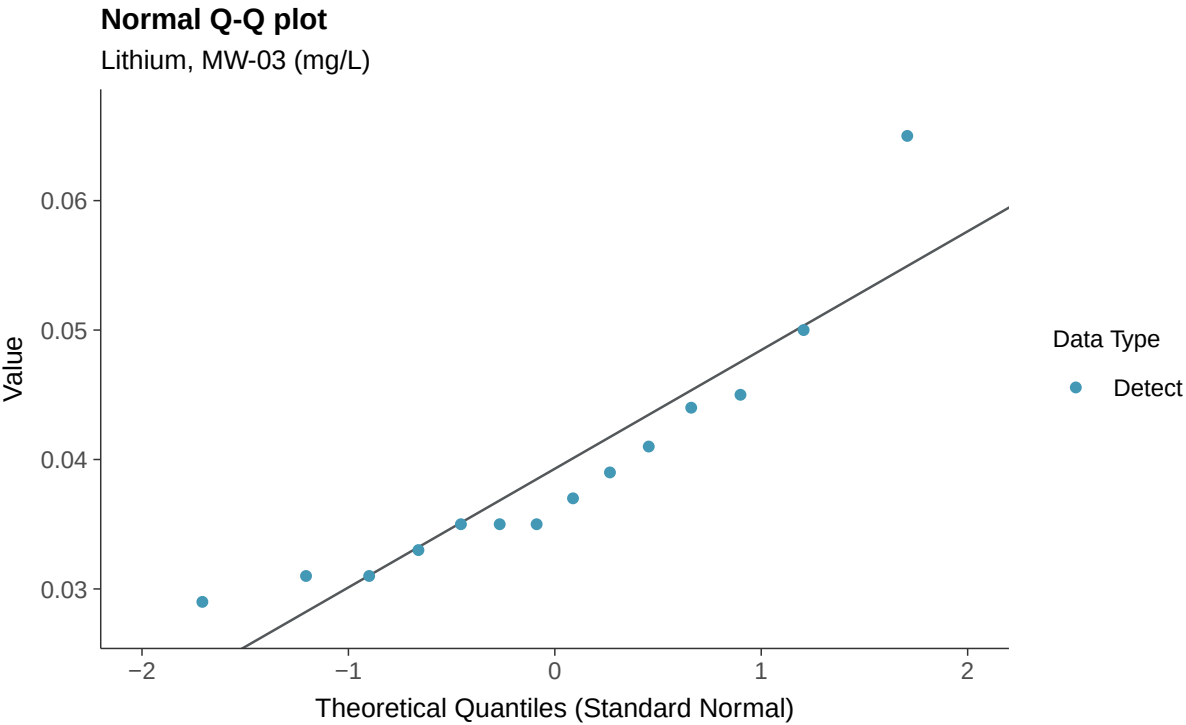


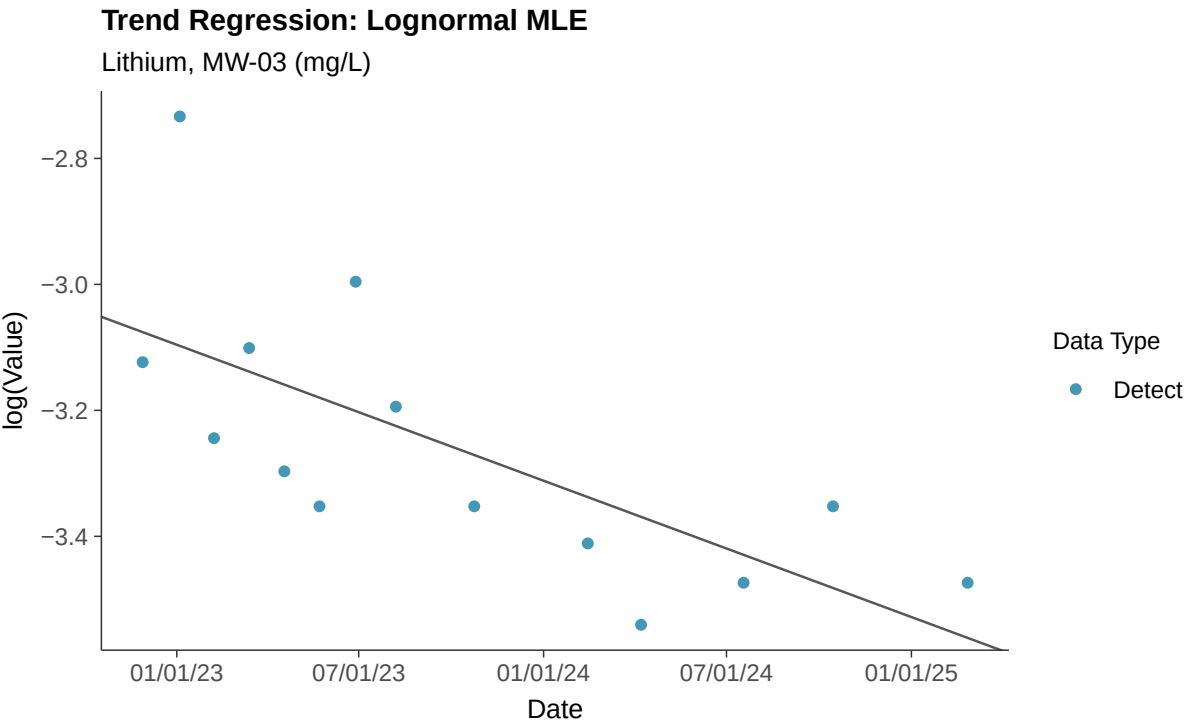
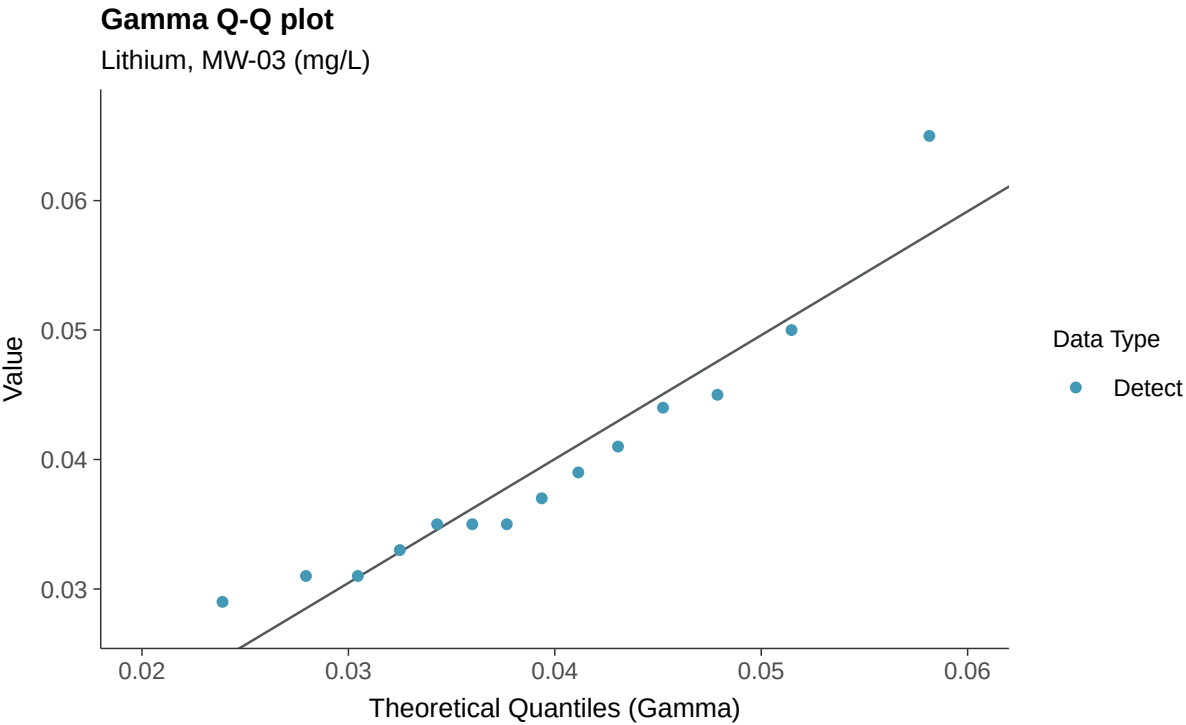
Appendix IV: Lithium, MW-03

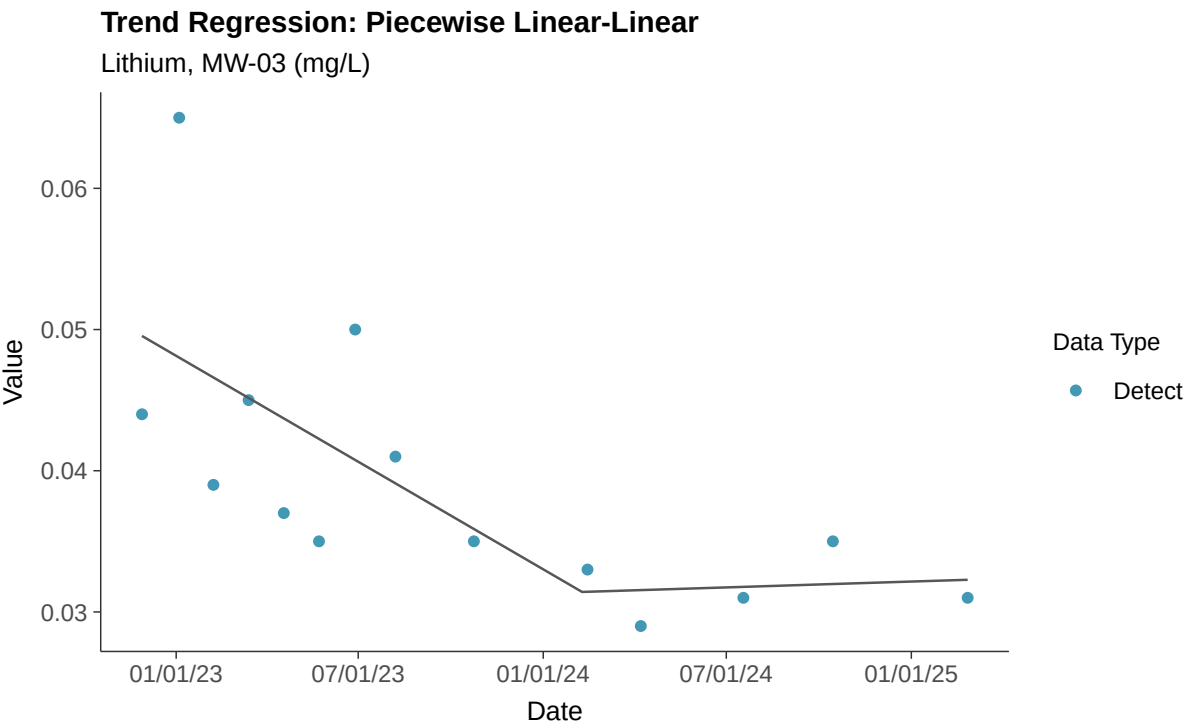
ID: 13_2_4_116







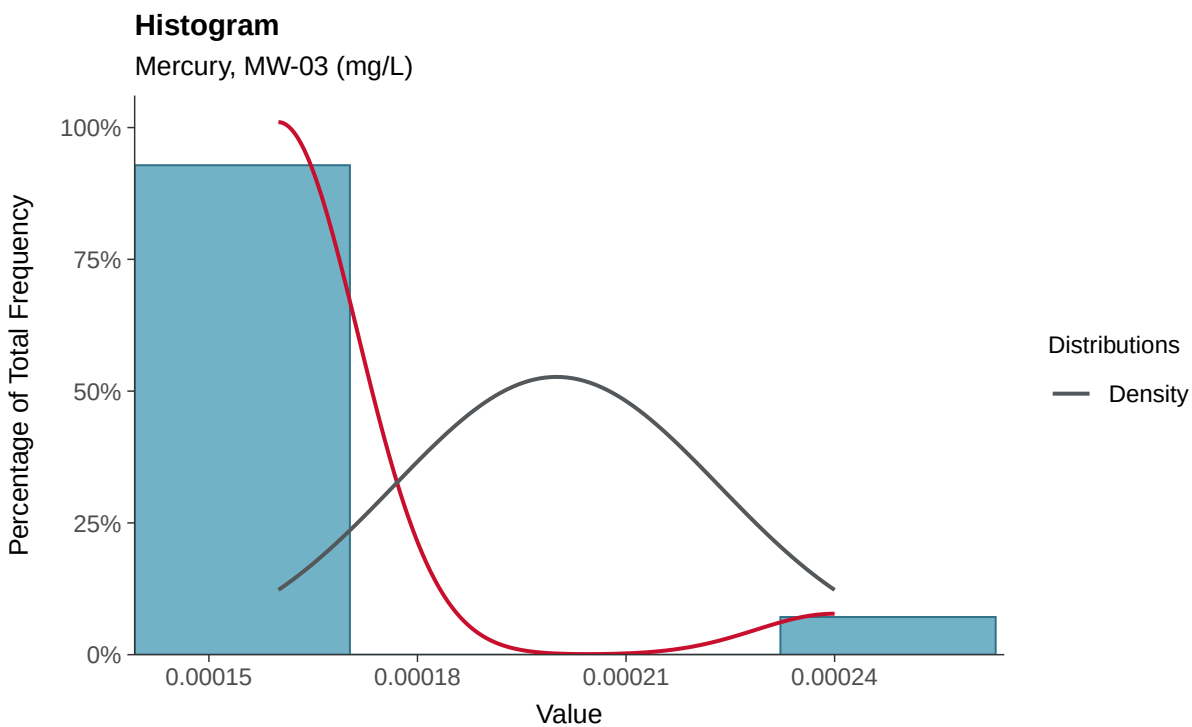
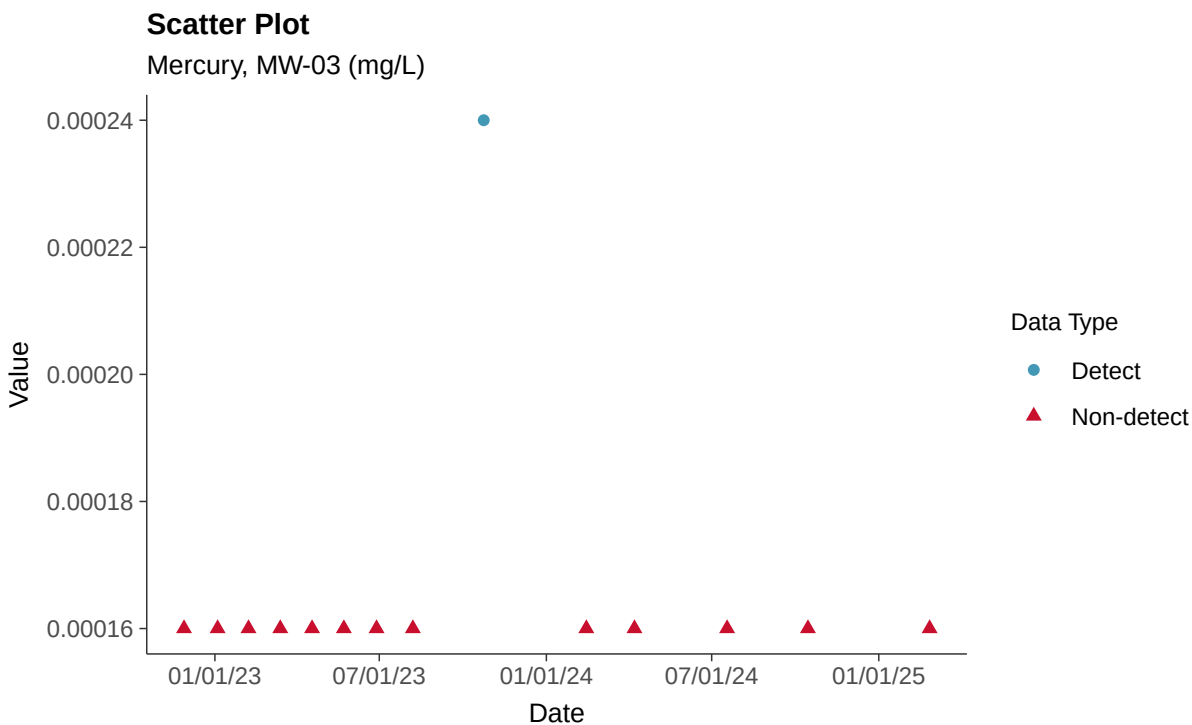


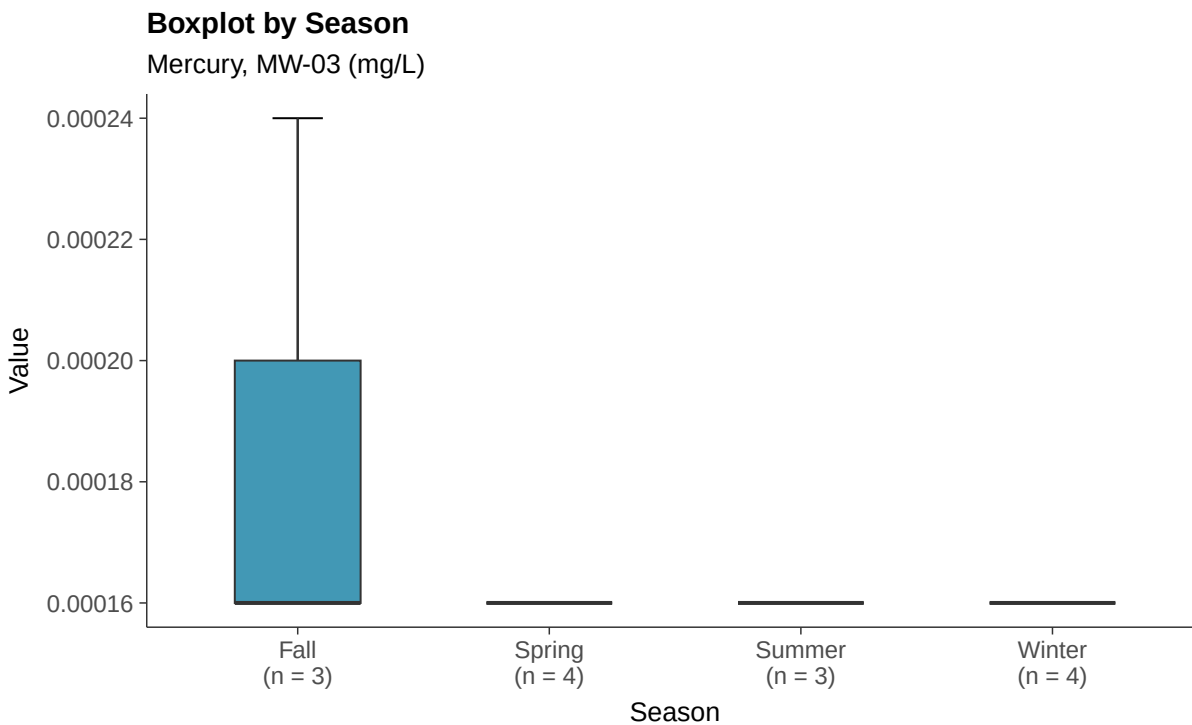
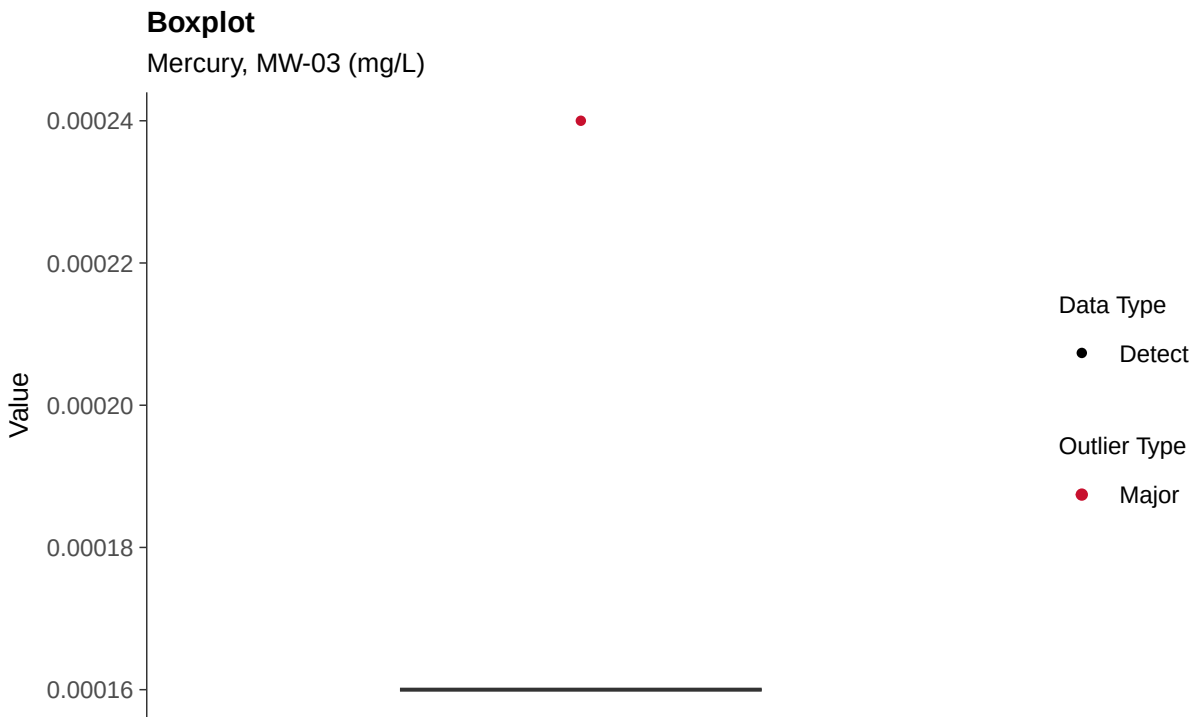


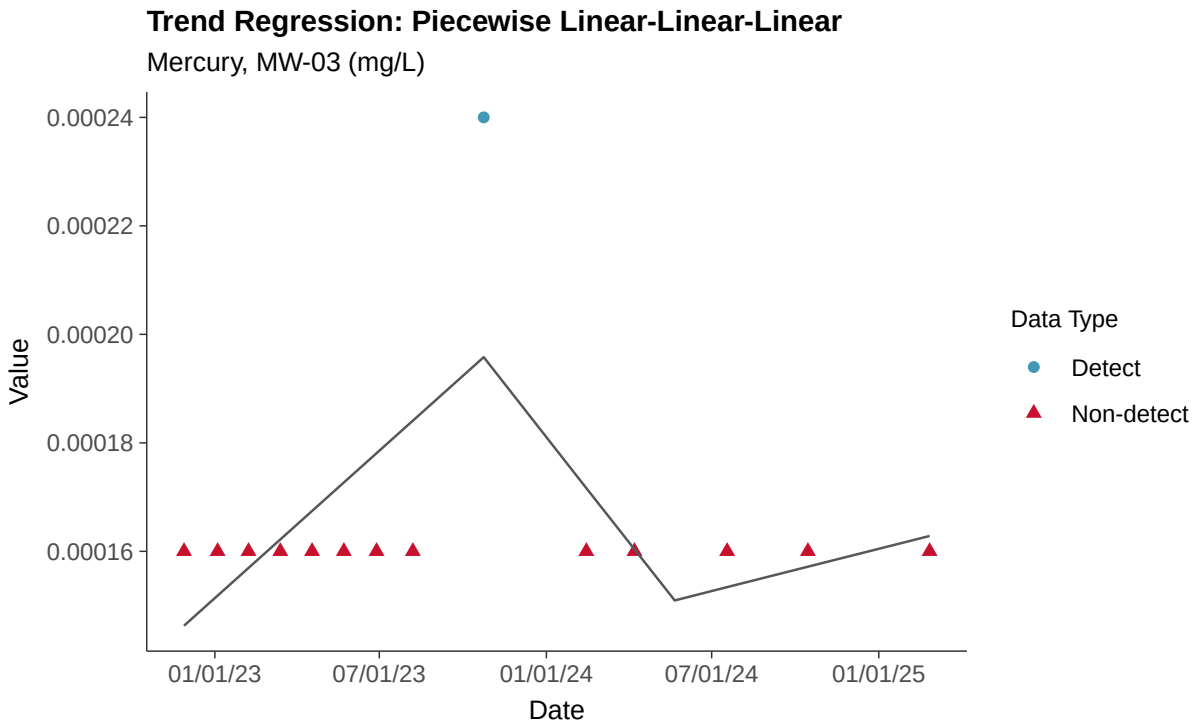
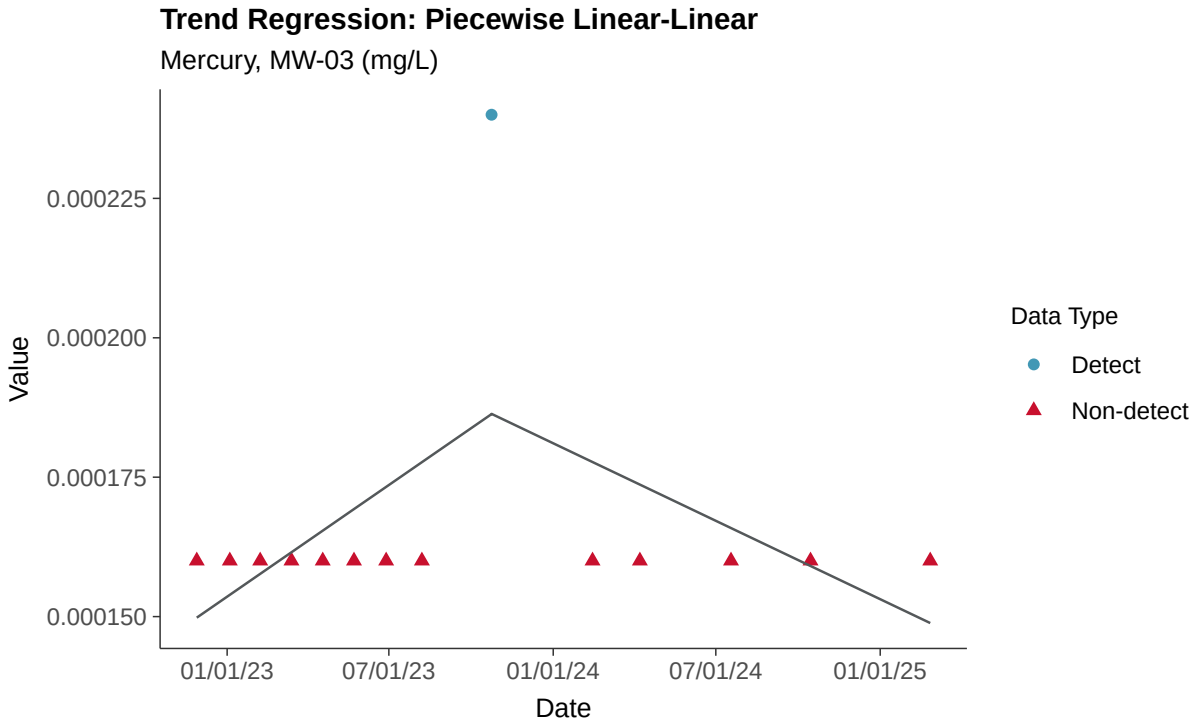


Appendix IV: Mercury, MW-03

ID: 13_2_4_117



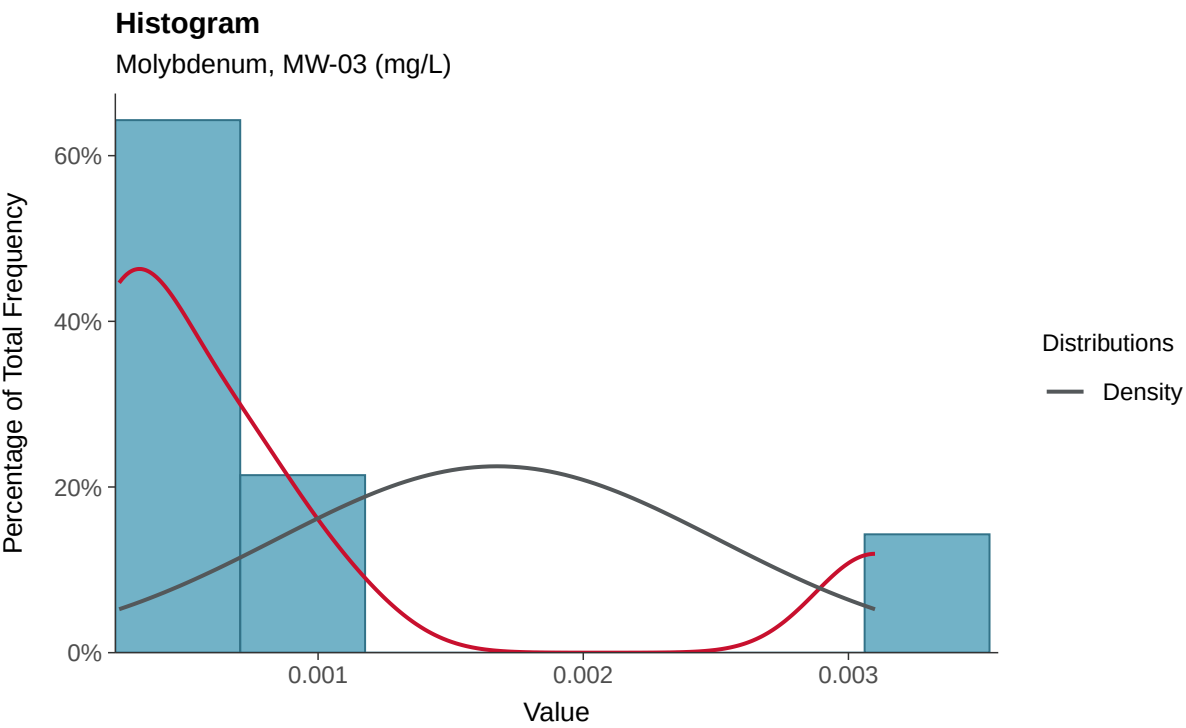
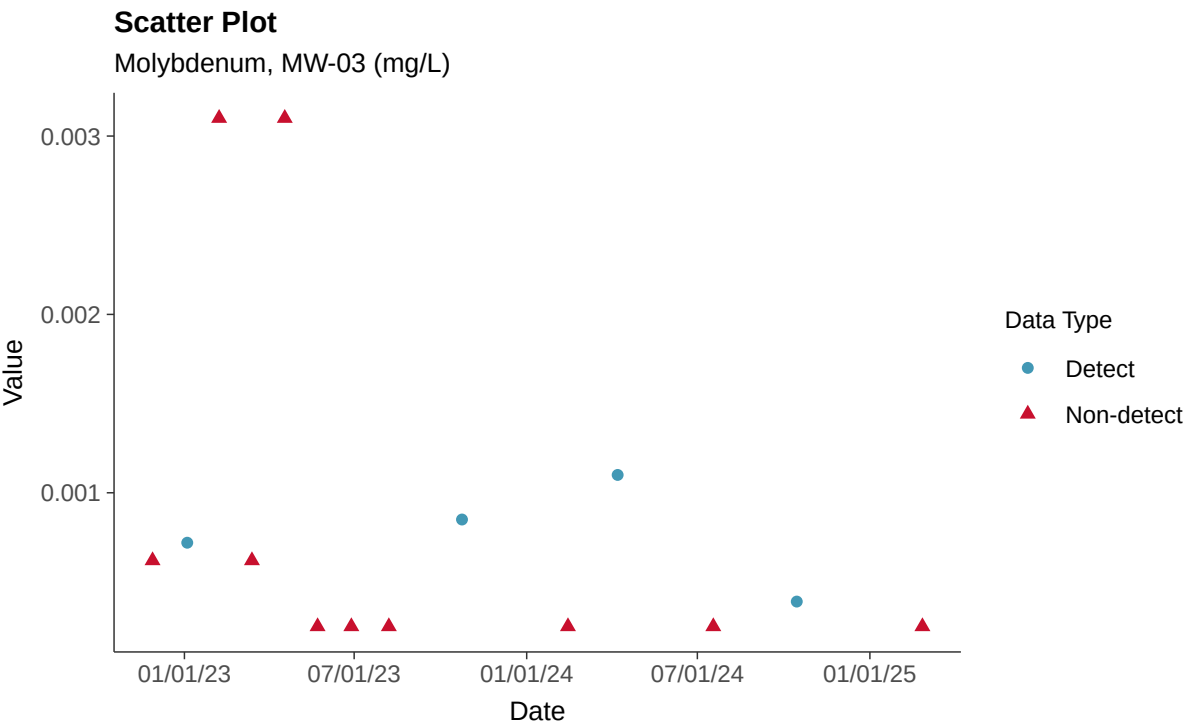


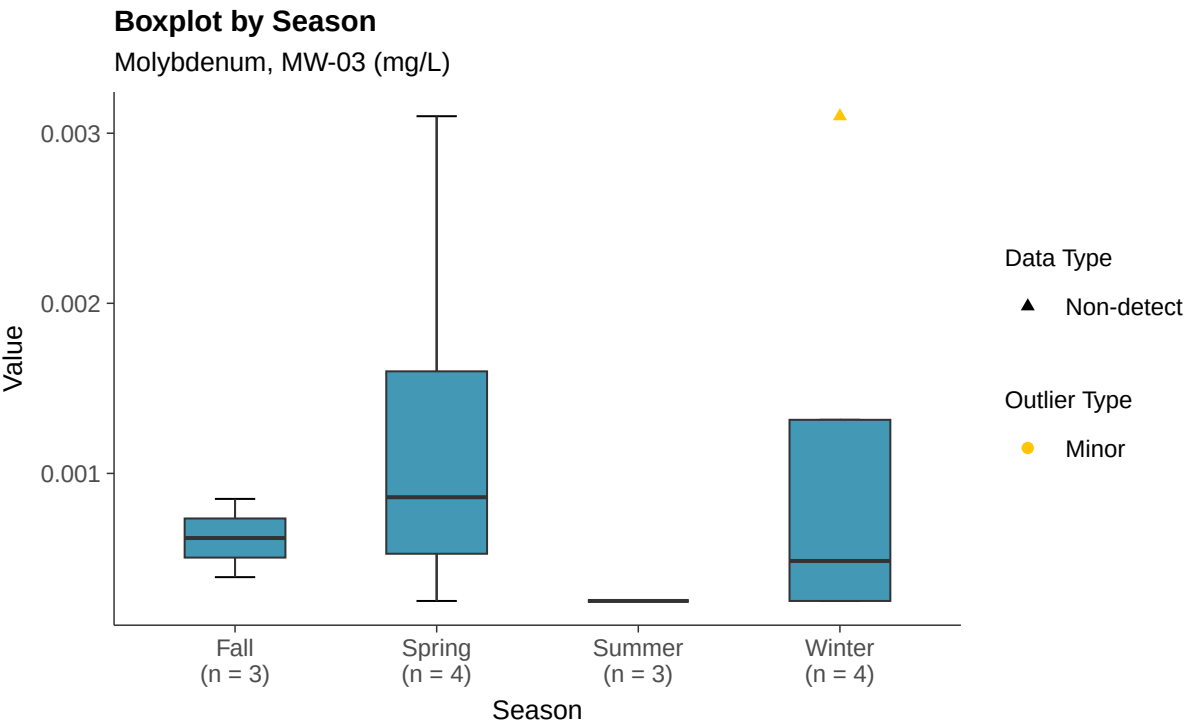
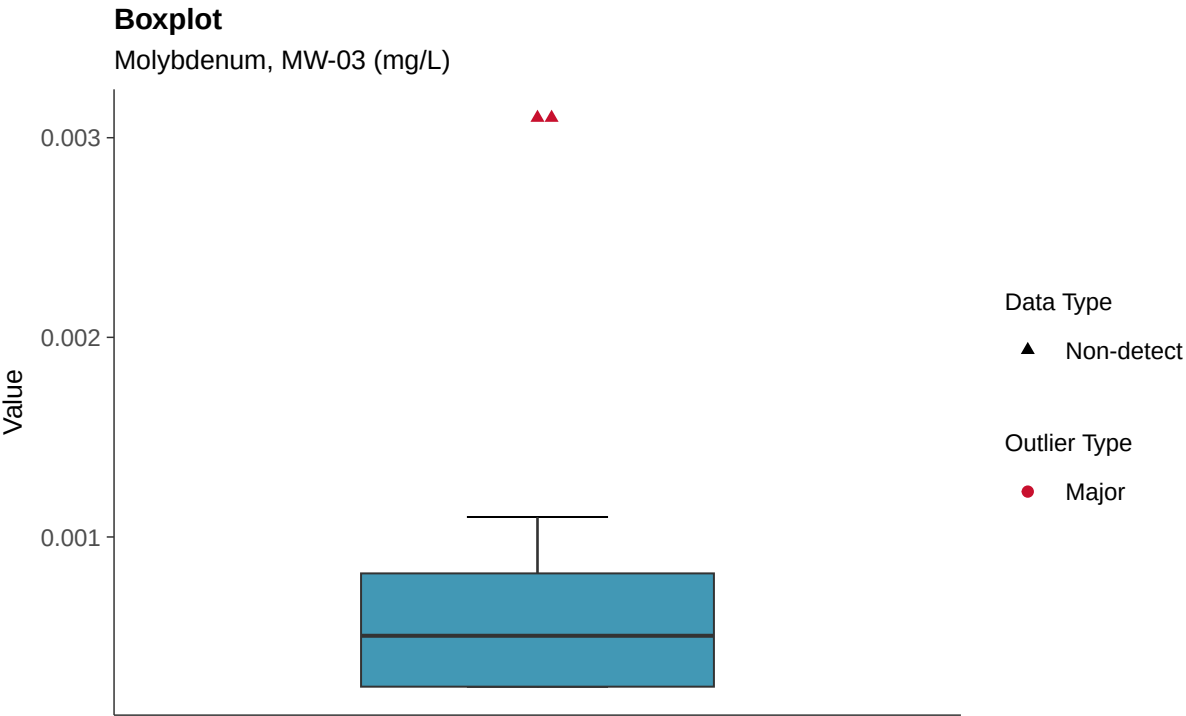


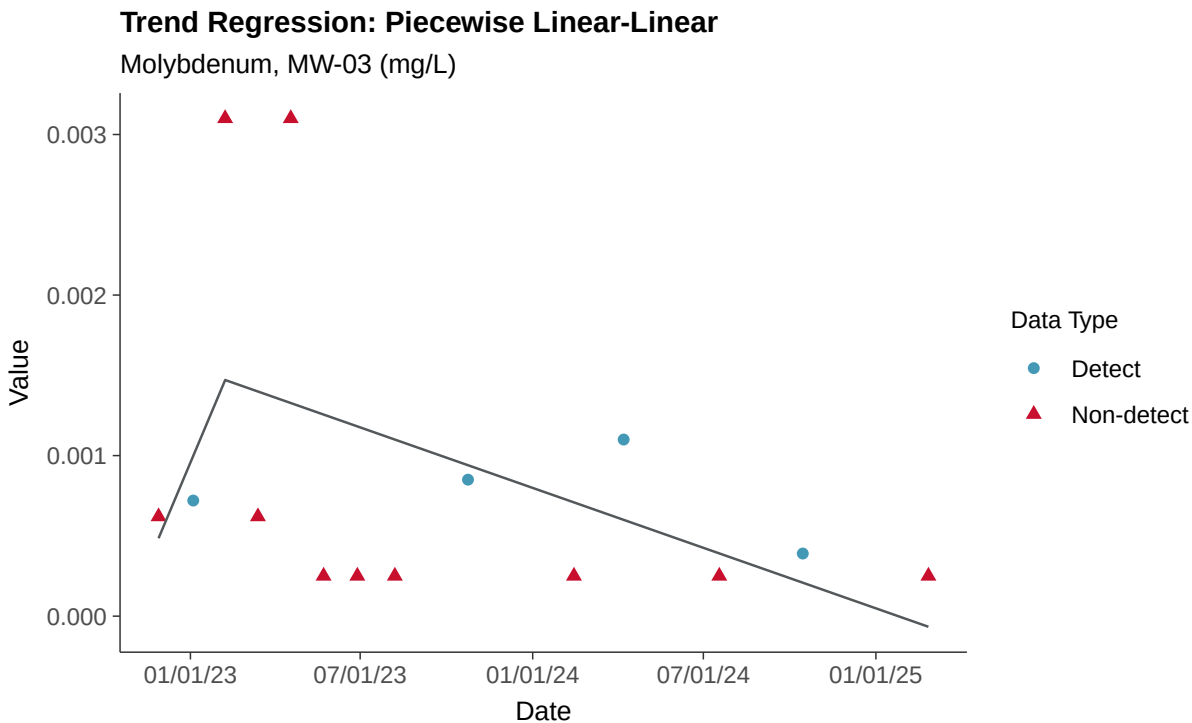
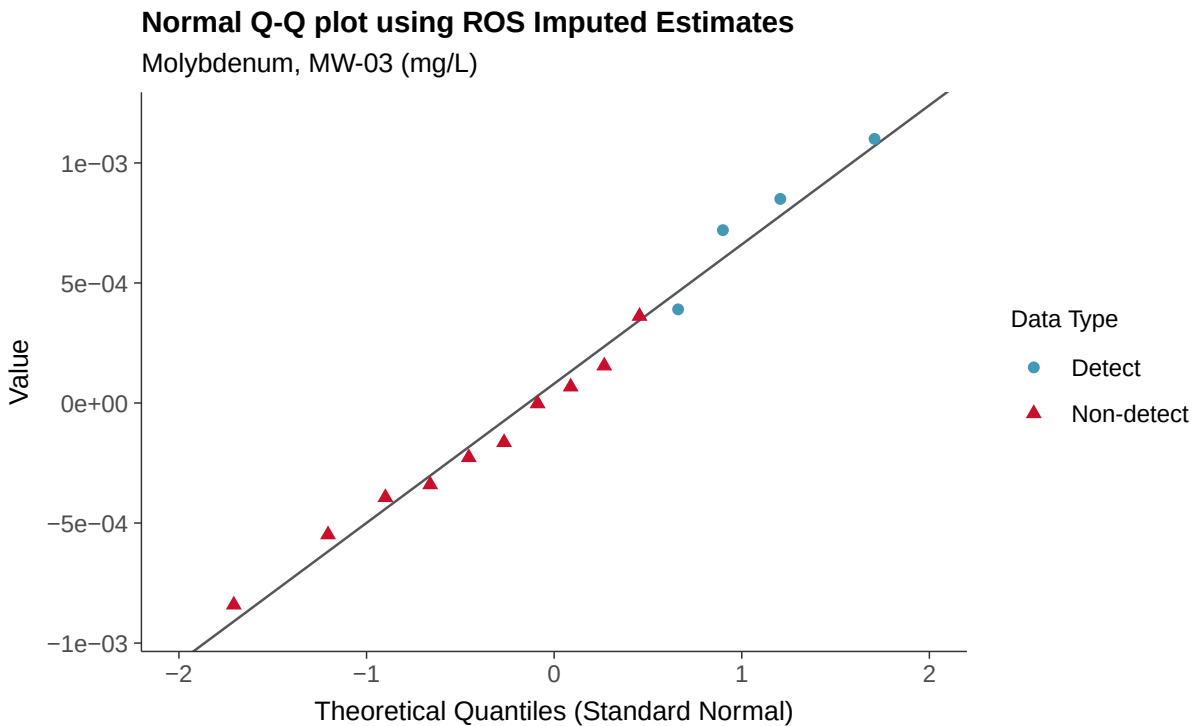


Appendix IV: Molybdenum, MW-03

ID: 13_2_4_118



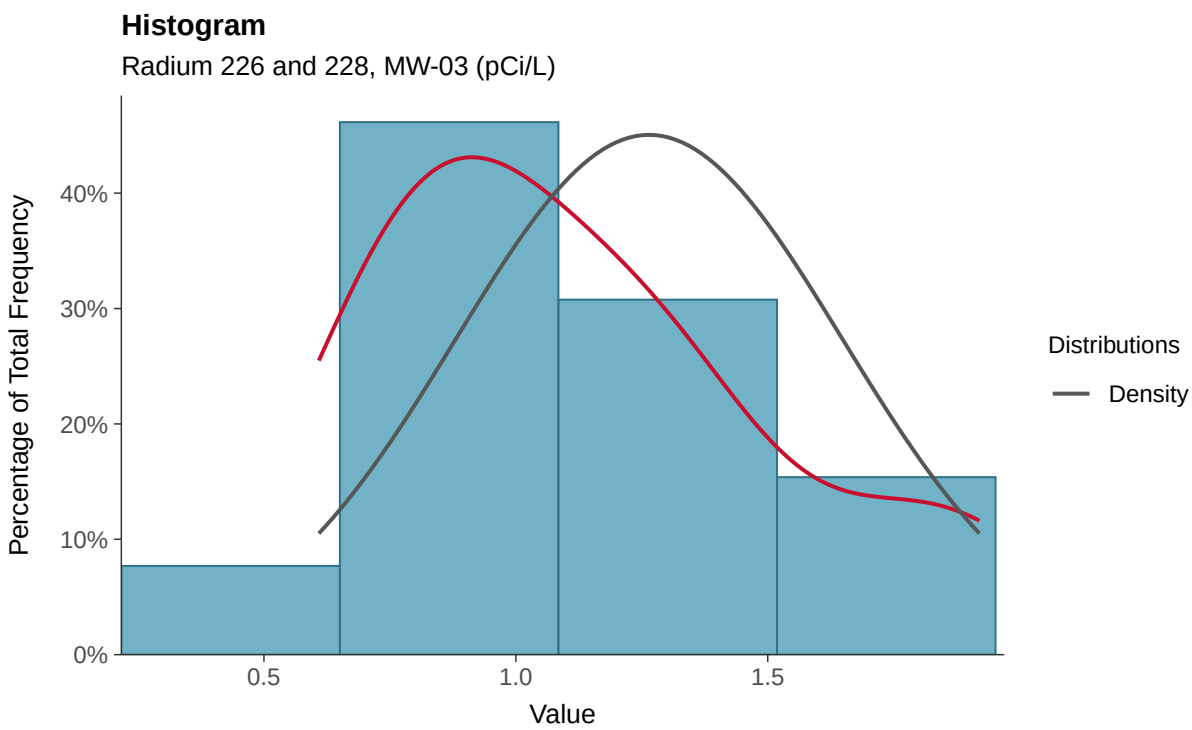
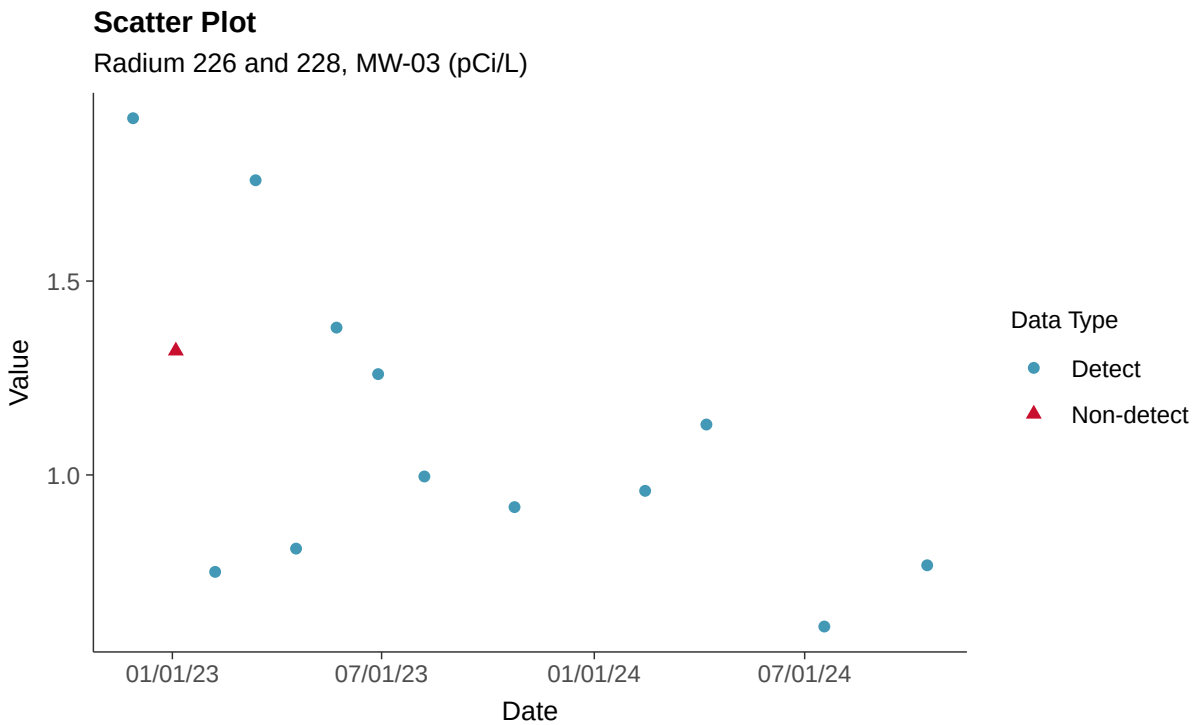






Appendix IV: Radium 226 and 228, MW-03

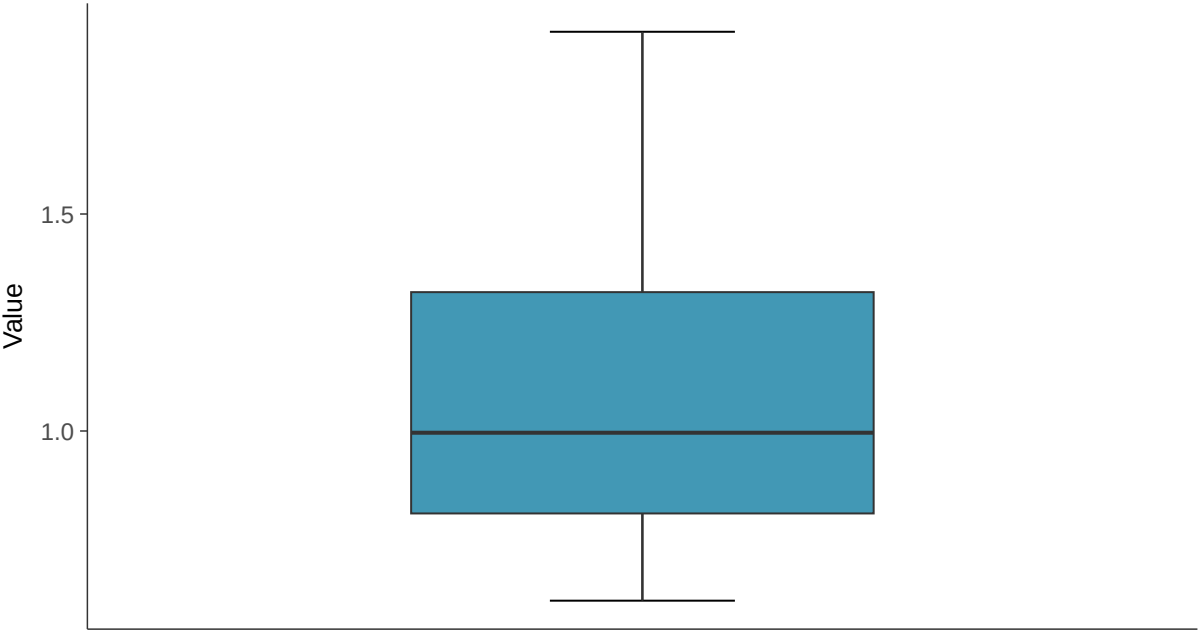
ID: 13_2_4_121





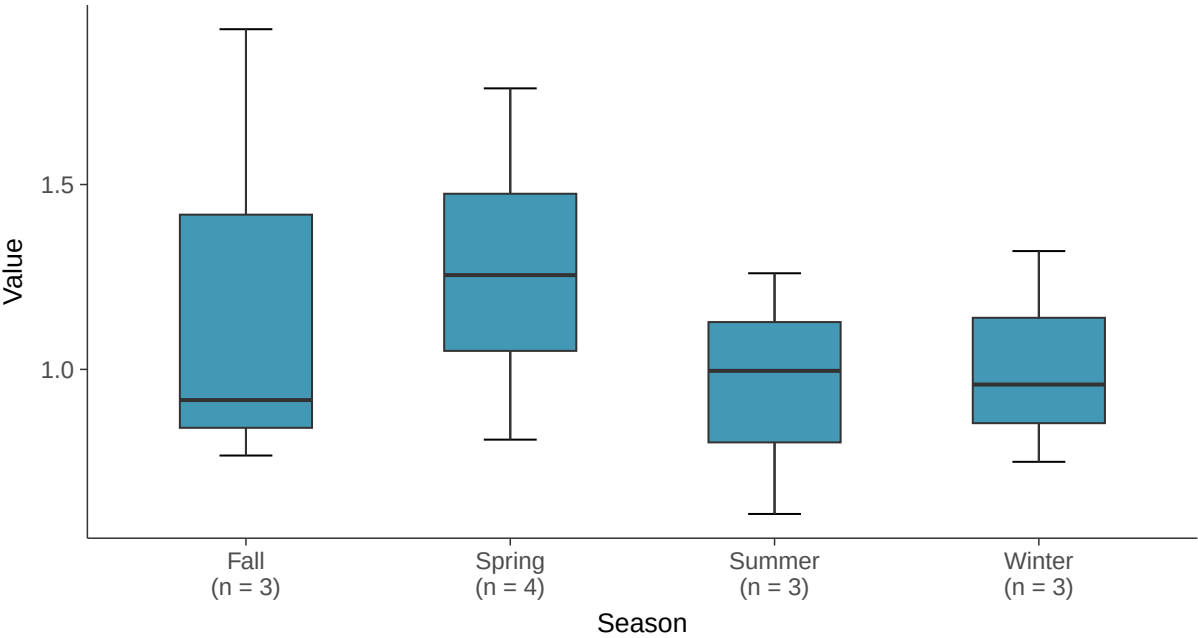
Boxplot

Radium 226 and 228, MW-03 (pCi/L)



Boxplot by Season

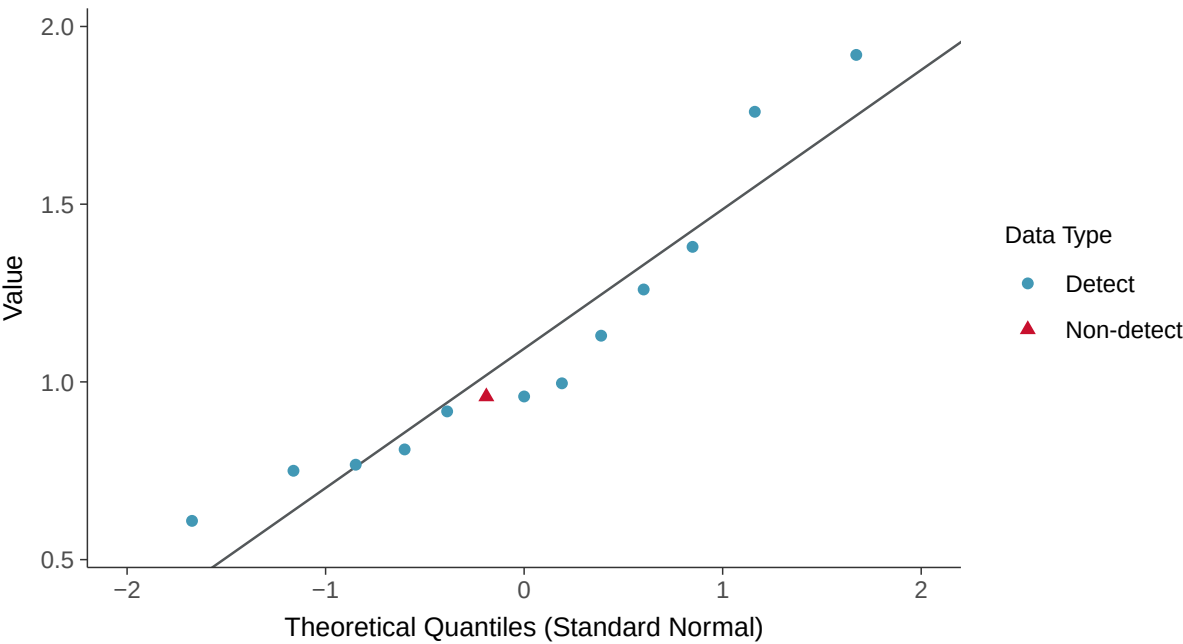
Radium 226 and 228, MW-03 (pCi/L)





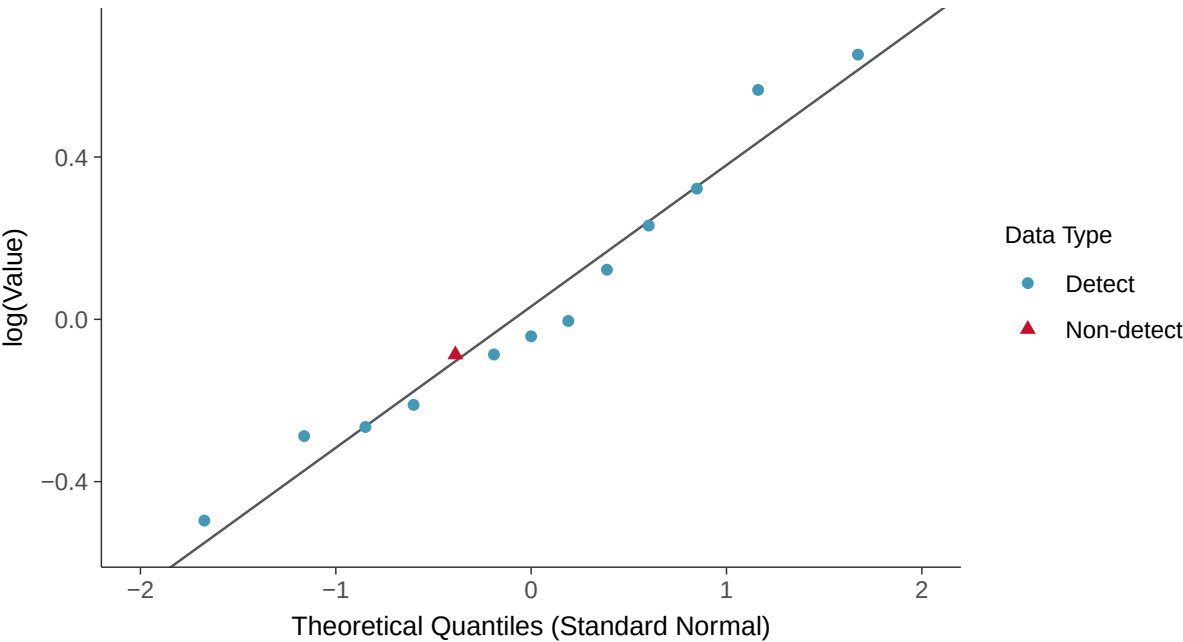
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

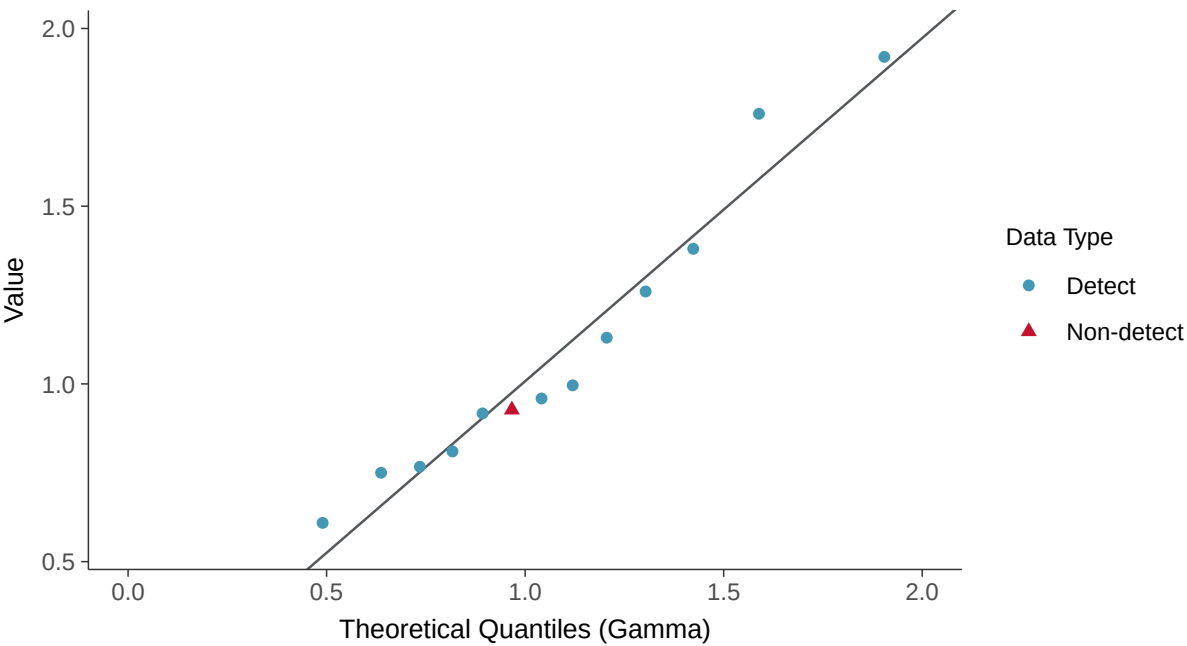
Radium 226 and 228, MW-03 (pCi/L)





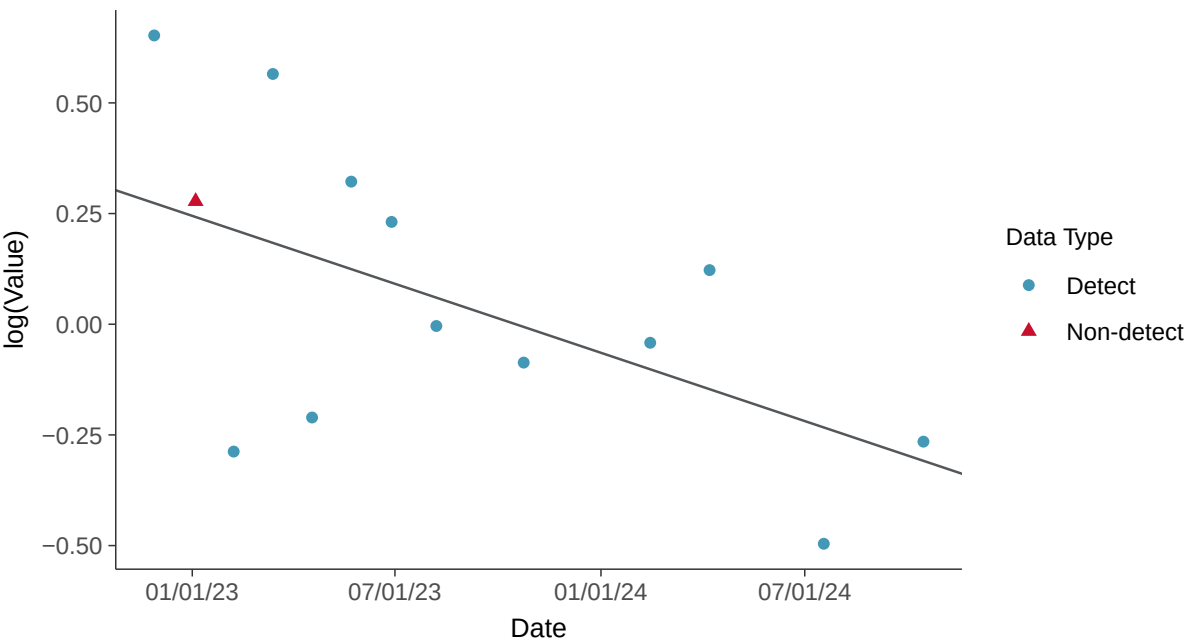
Gamma Q-Q plot using ROS Imputed Estimates

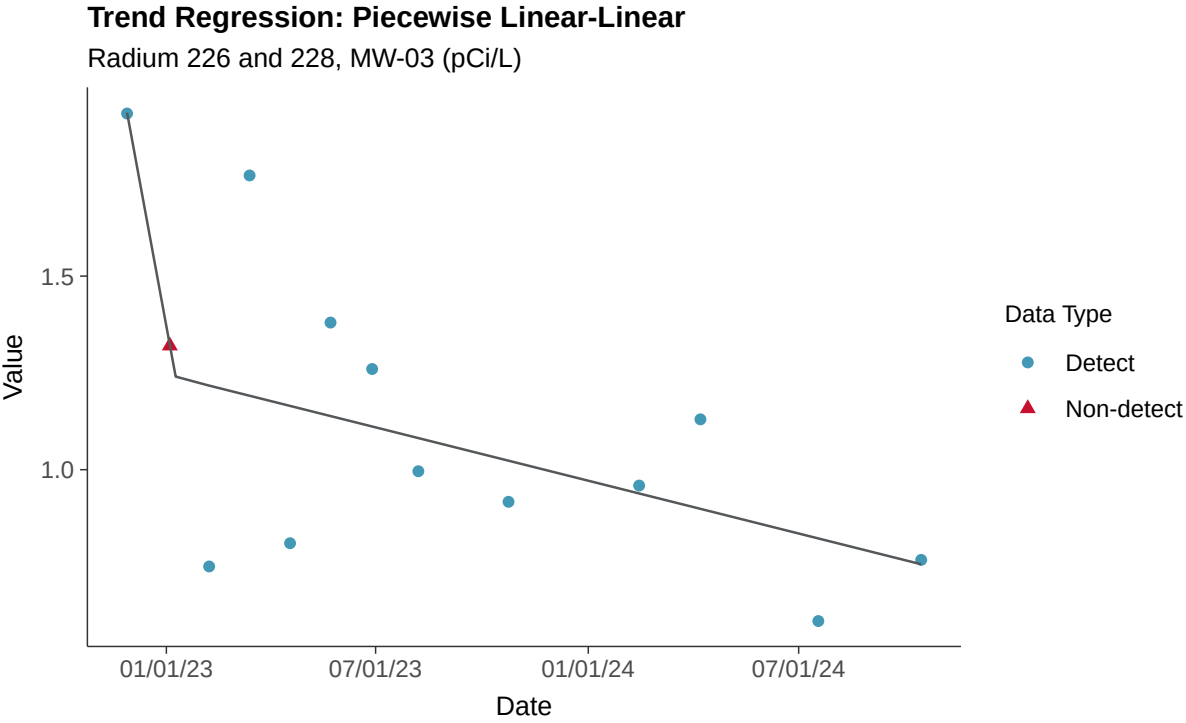
Radium 226 and 228, MW-03 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-03 (pCi/L)

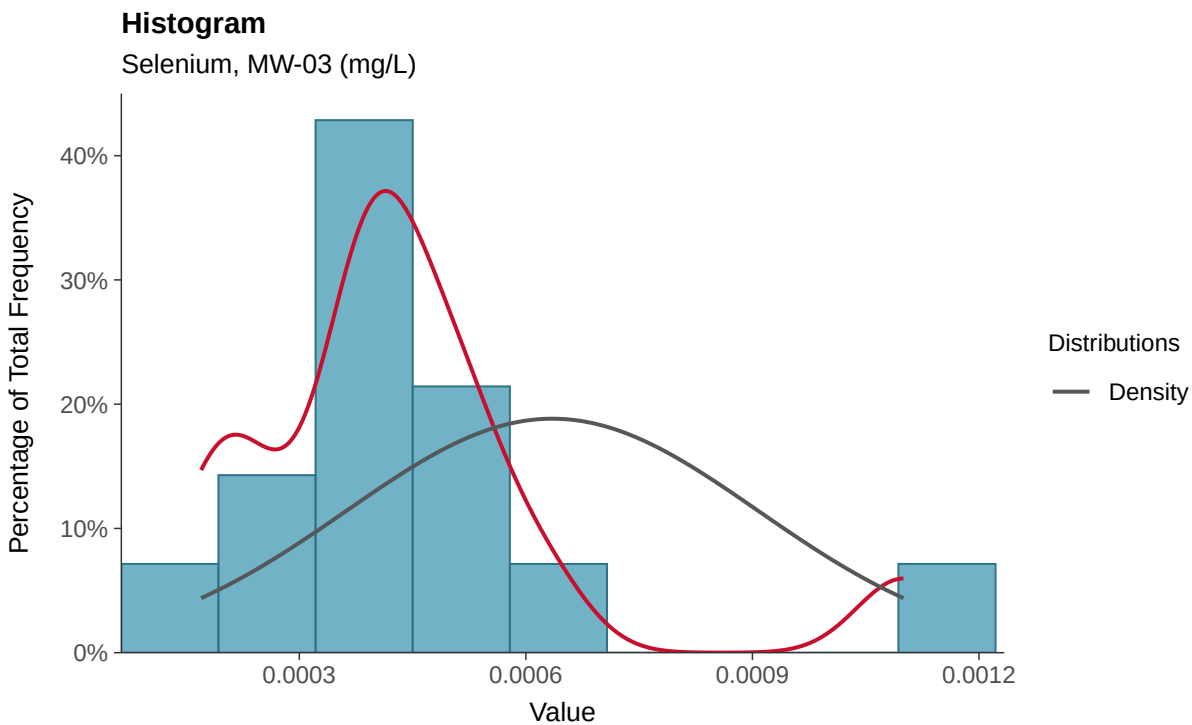
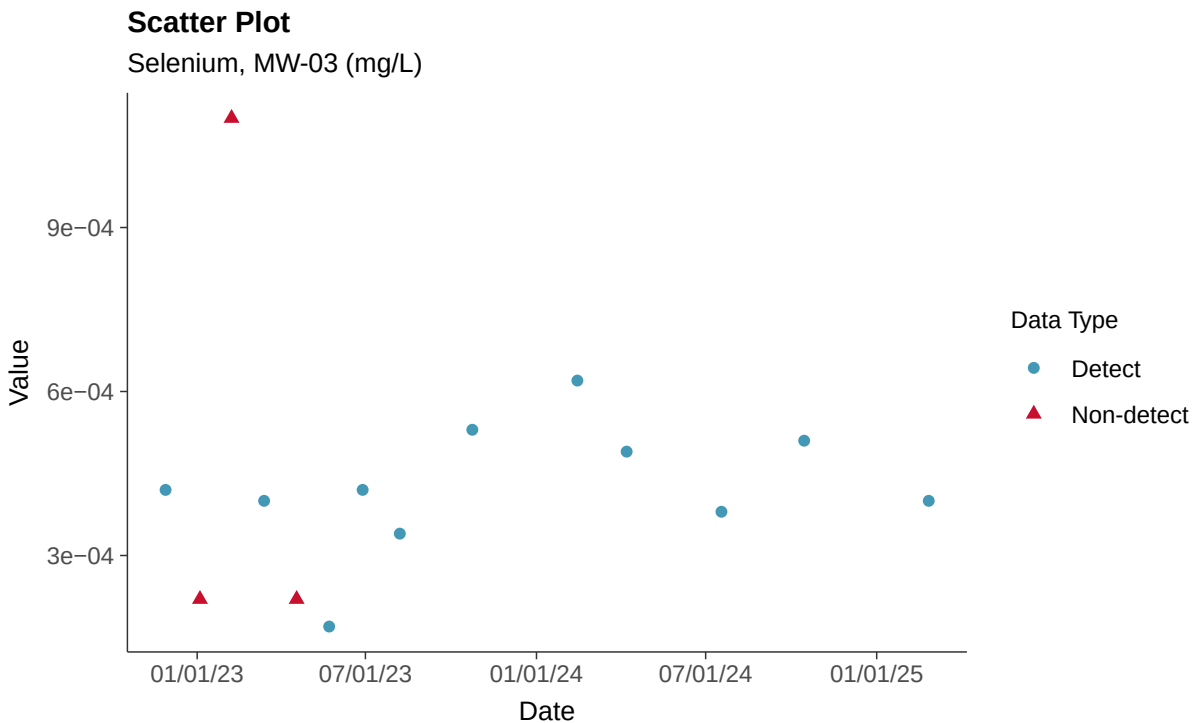


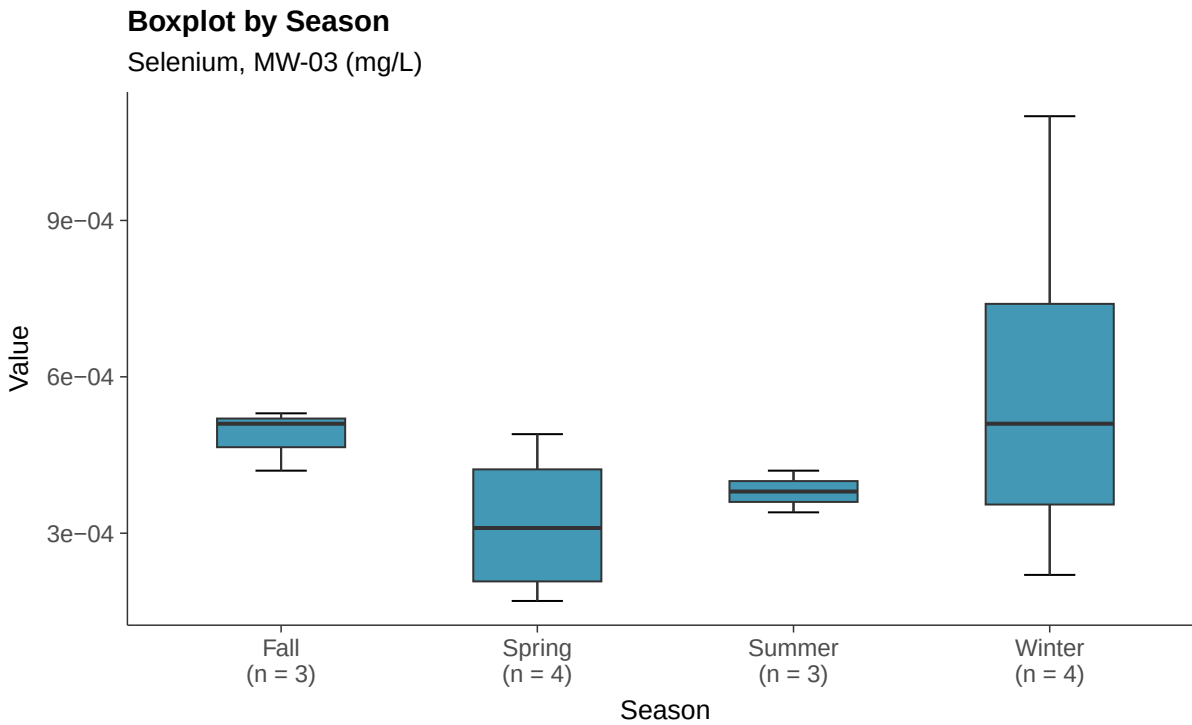
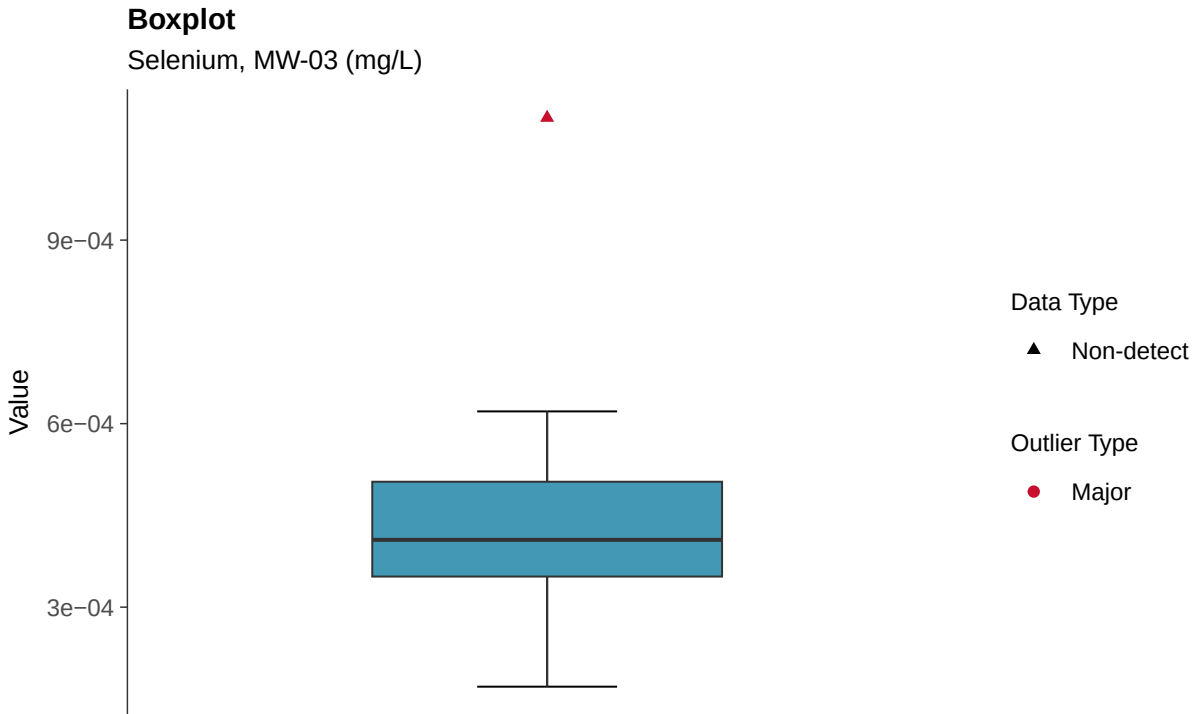




Appendix IV: Selenium, MW-03

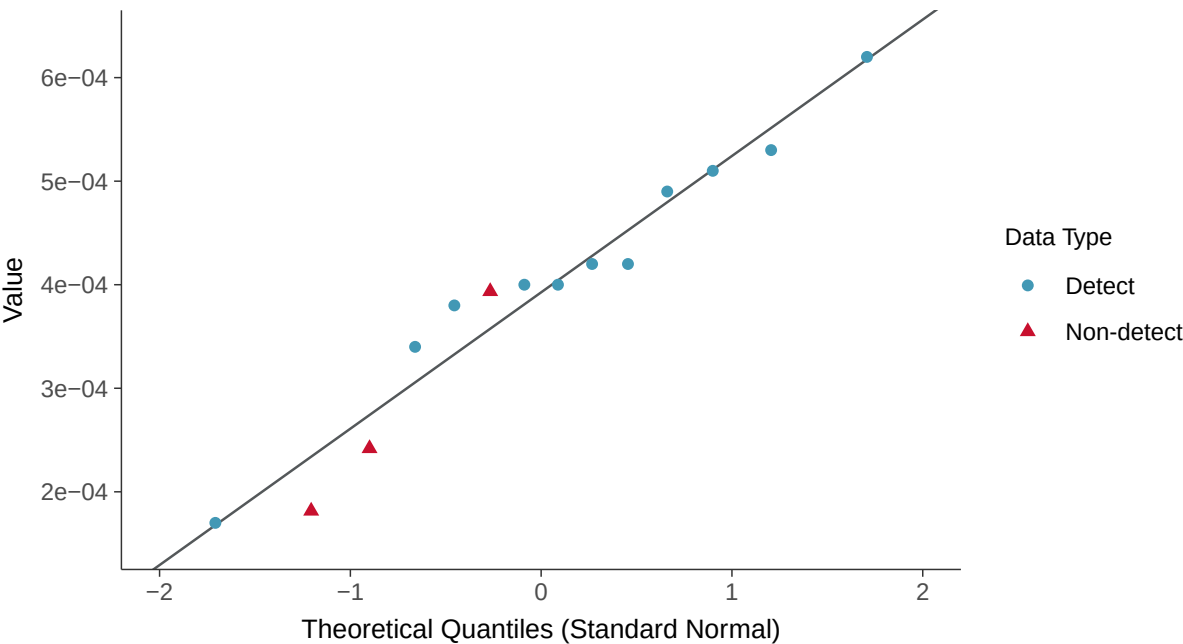
ID: 13_2_4_122



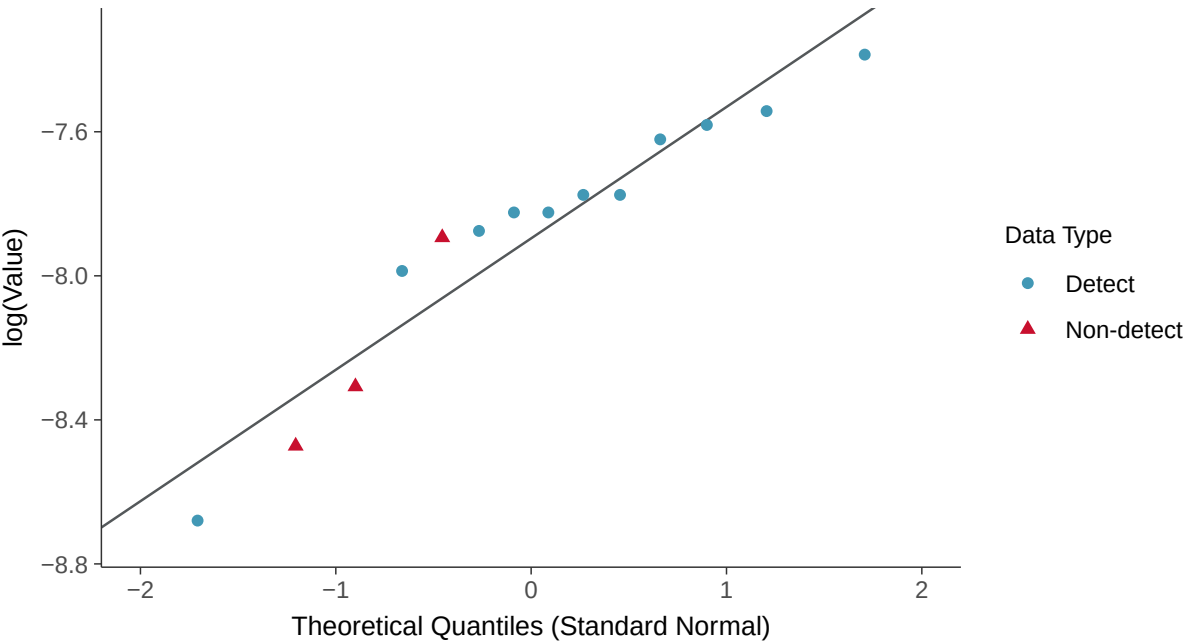




Normal Q-Q plot using ROS Imputed Estimates
Selenium, MW-03 (mg/L)



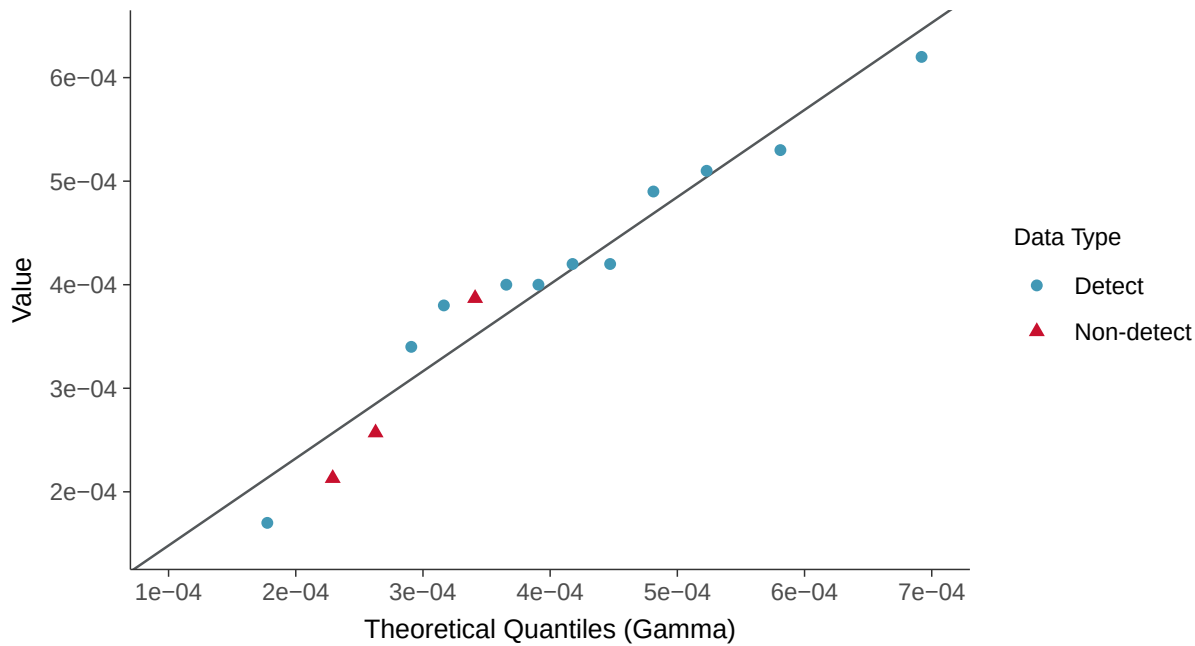
Lognormal Q-Q plot using ROS Imputed Estimates
Selenium, MW-03 (mg/L)





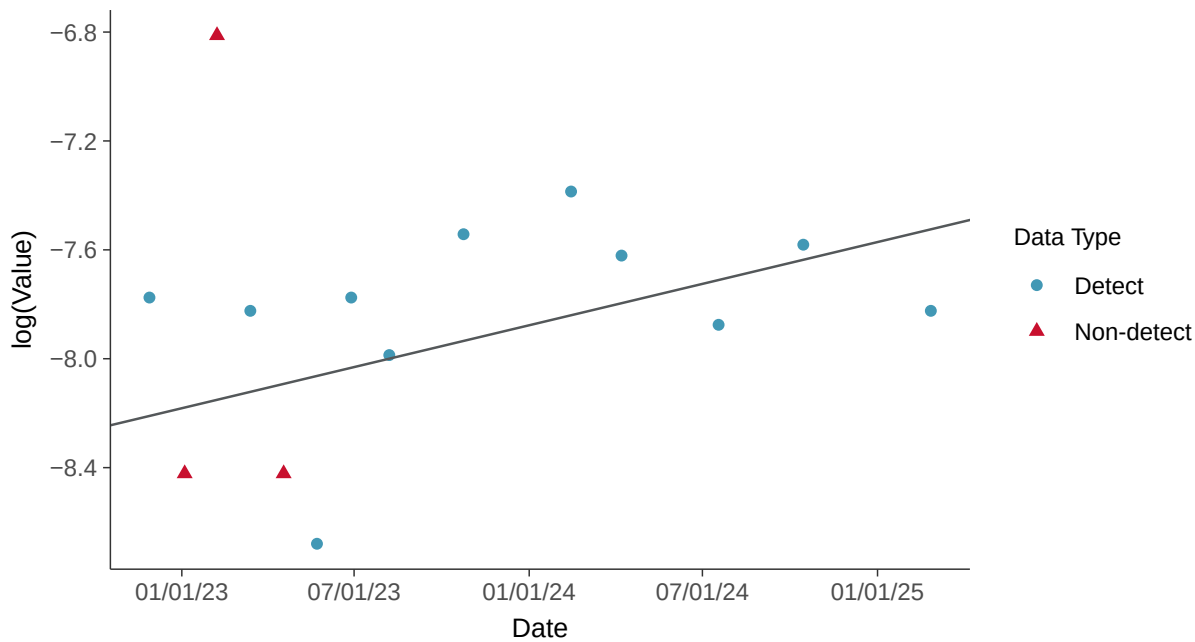
Gamma Q-Q plot using ROS Imputed Estimates

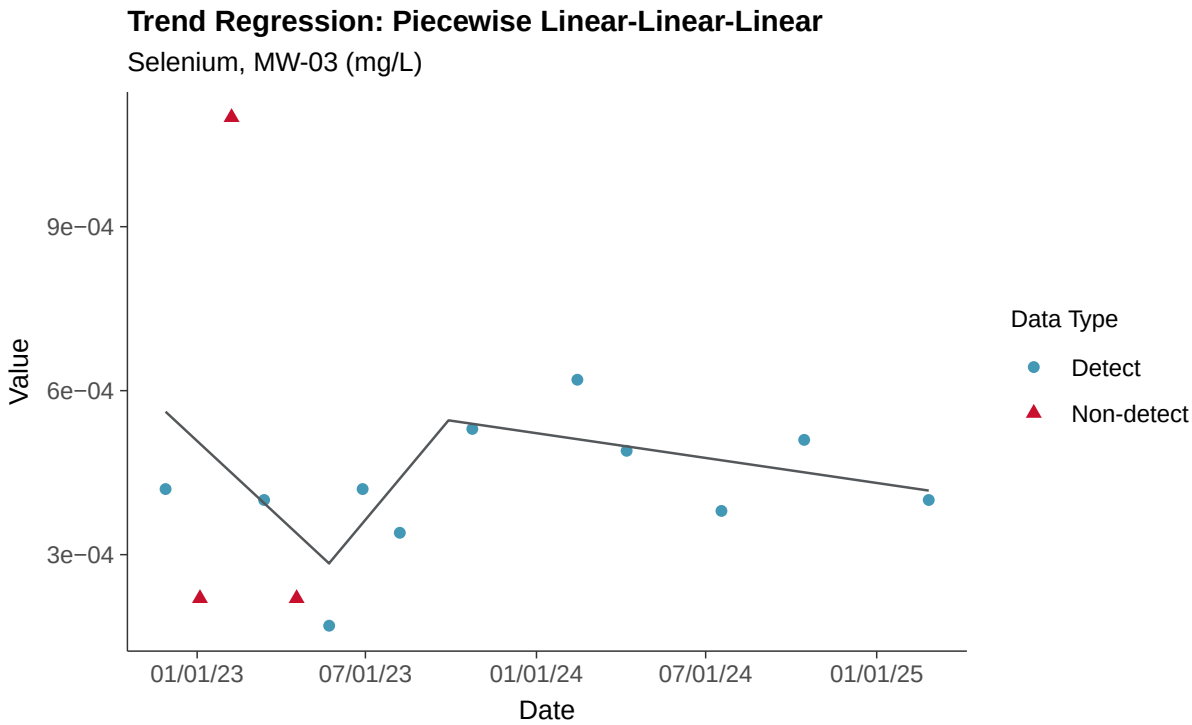
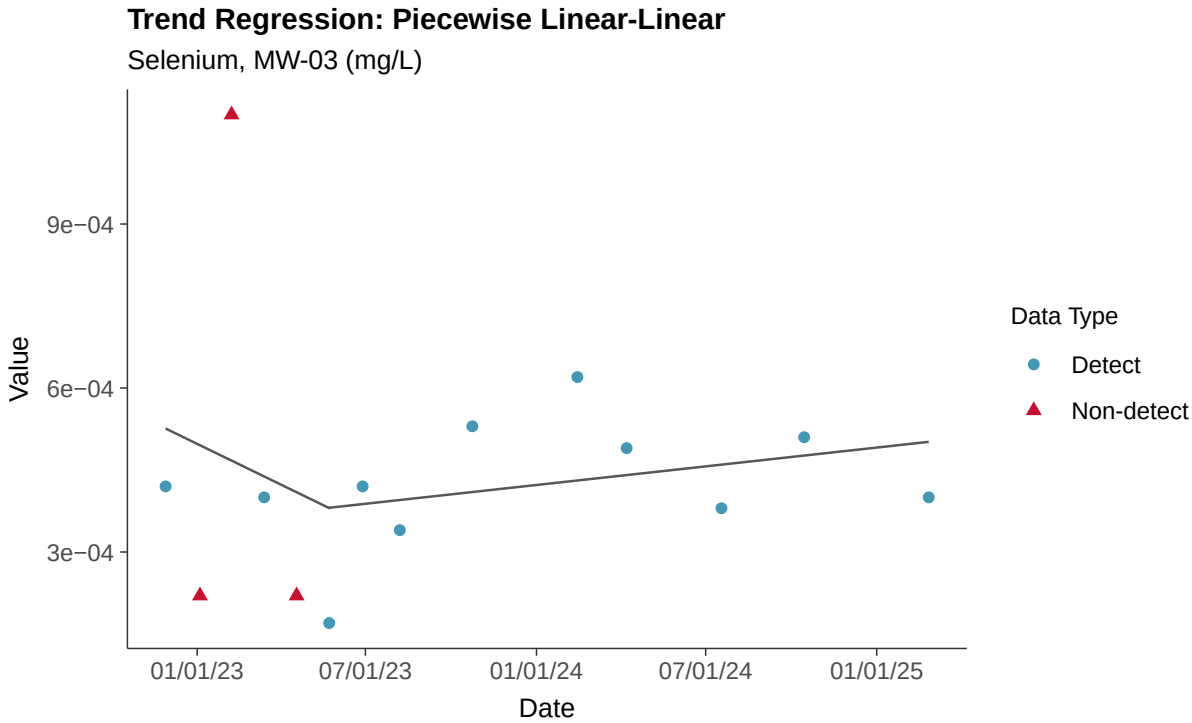
Selenium, MW-03 (mg/L)



Trend Regression: Lognormal MLE

Selenium, MW-03 (mg/L)

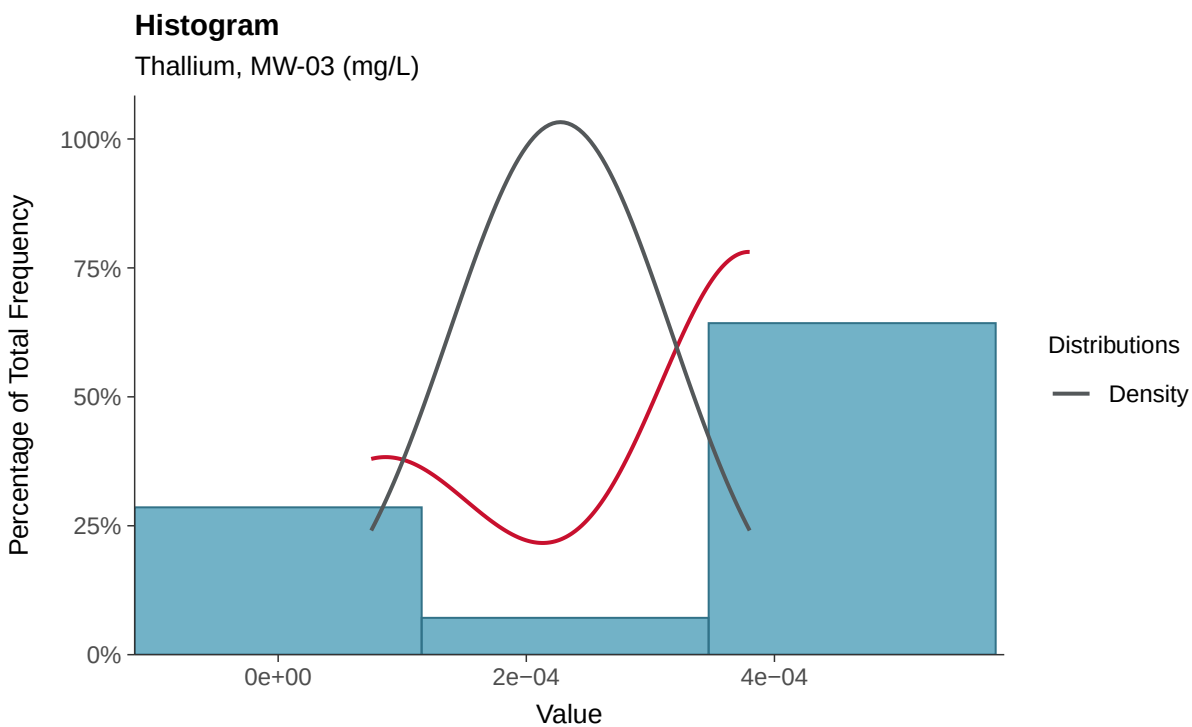
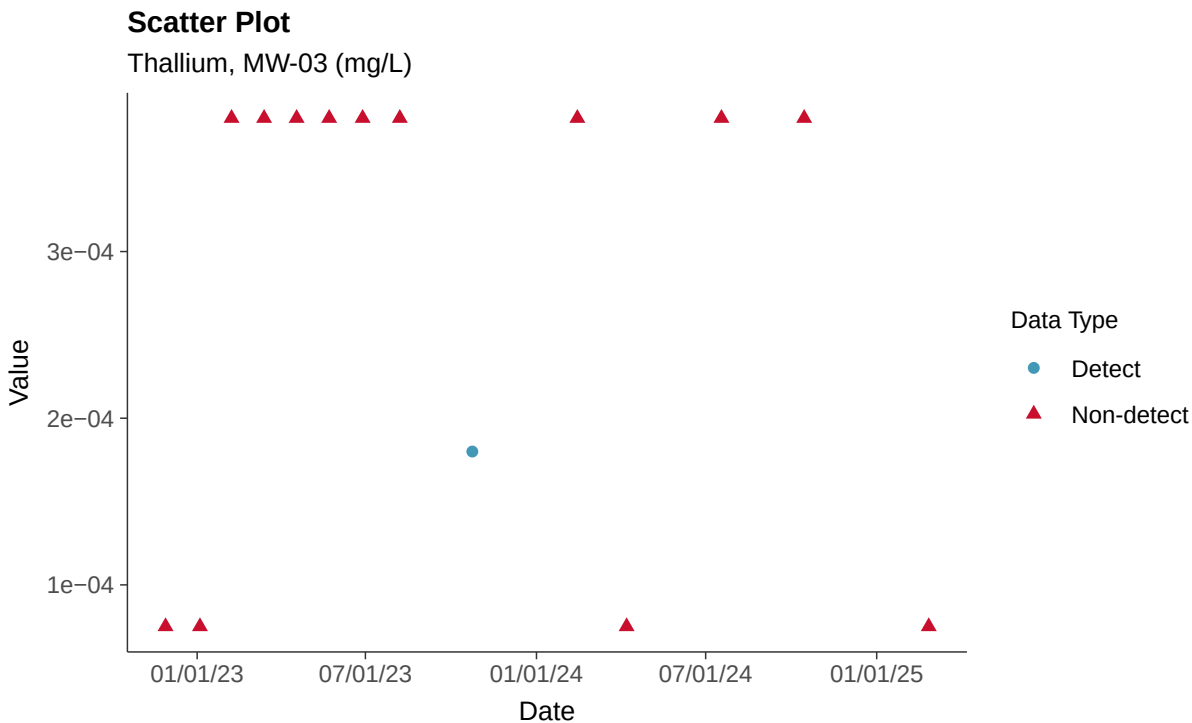


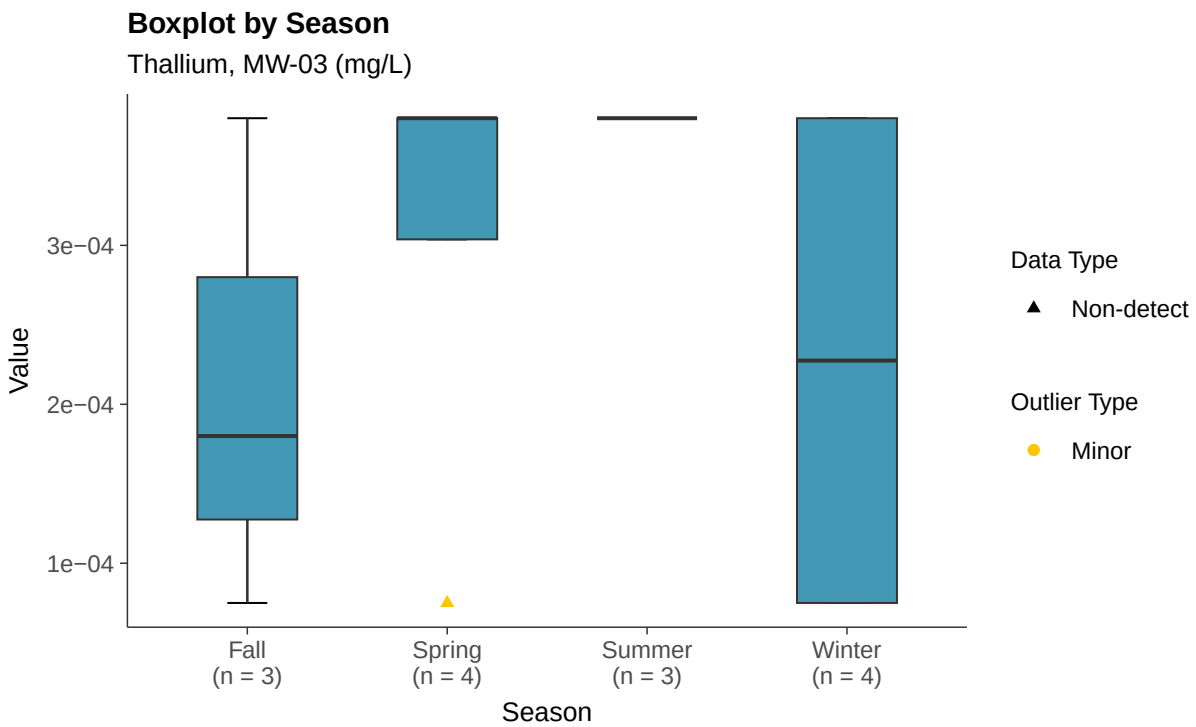


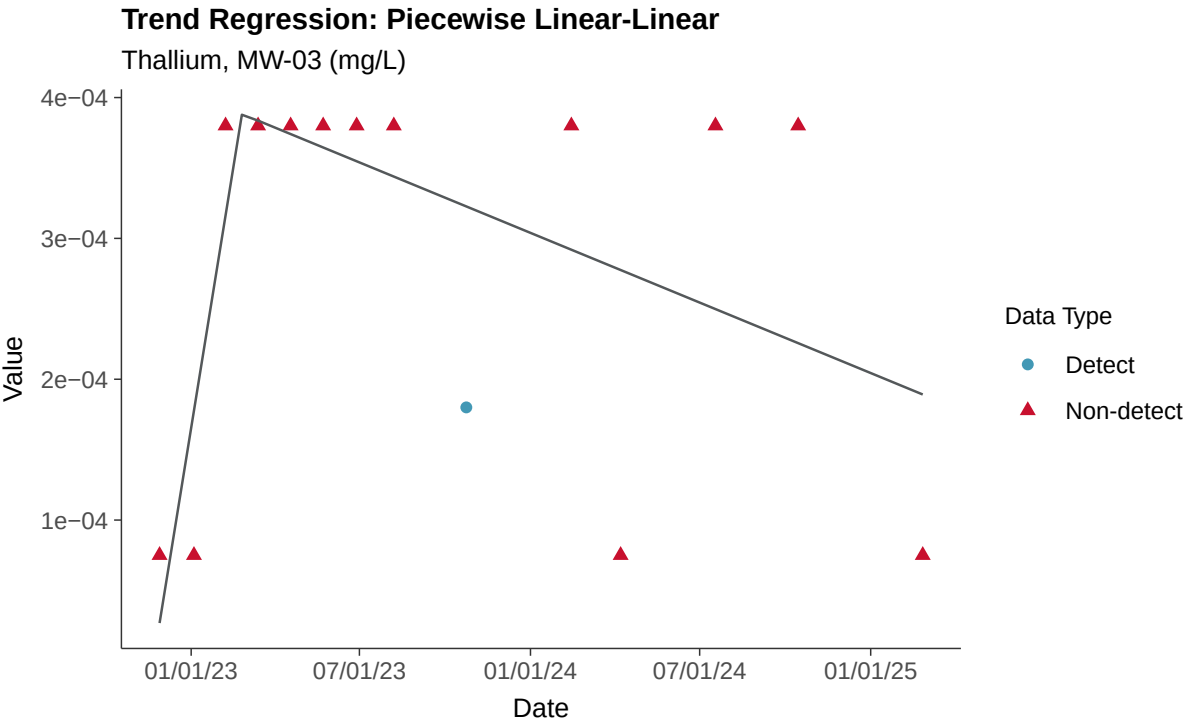


Appendix IV: Thallium, MW-03

ID: 13_2_4_125



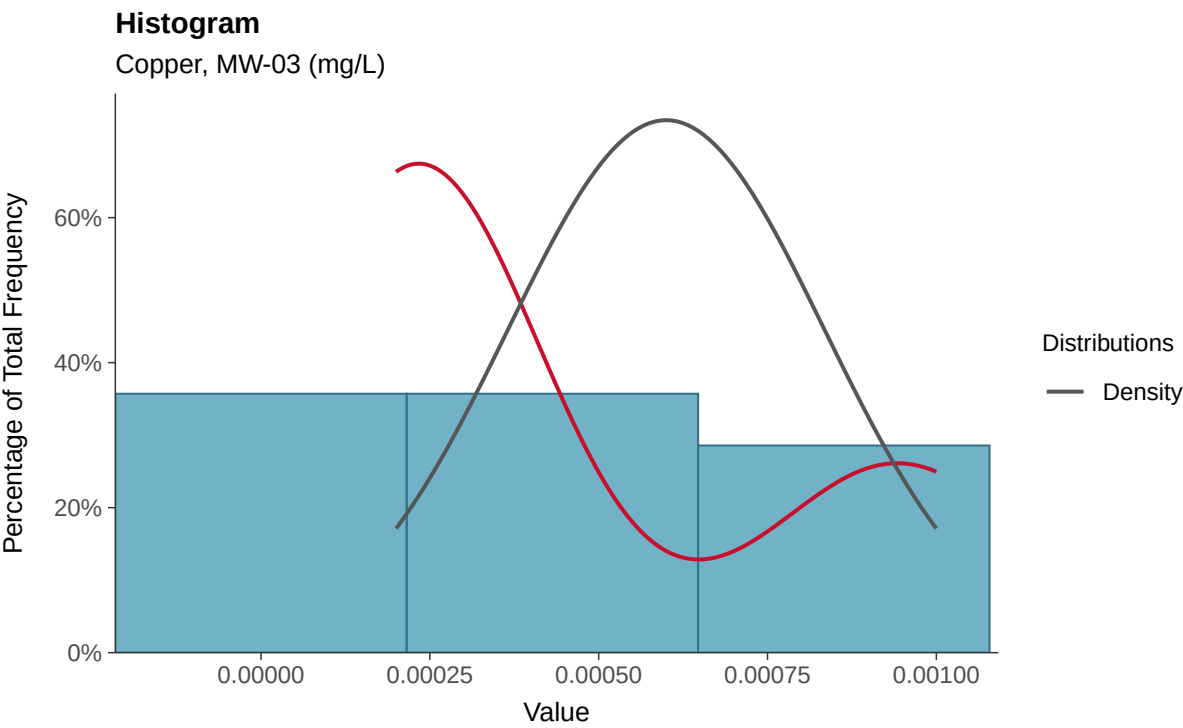
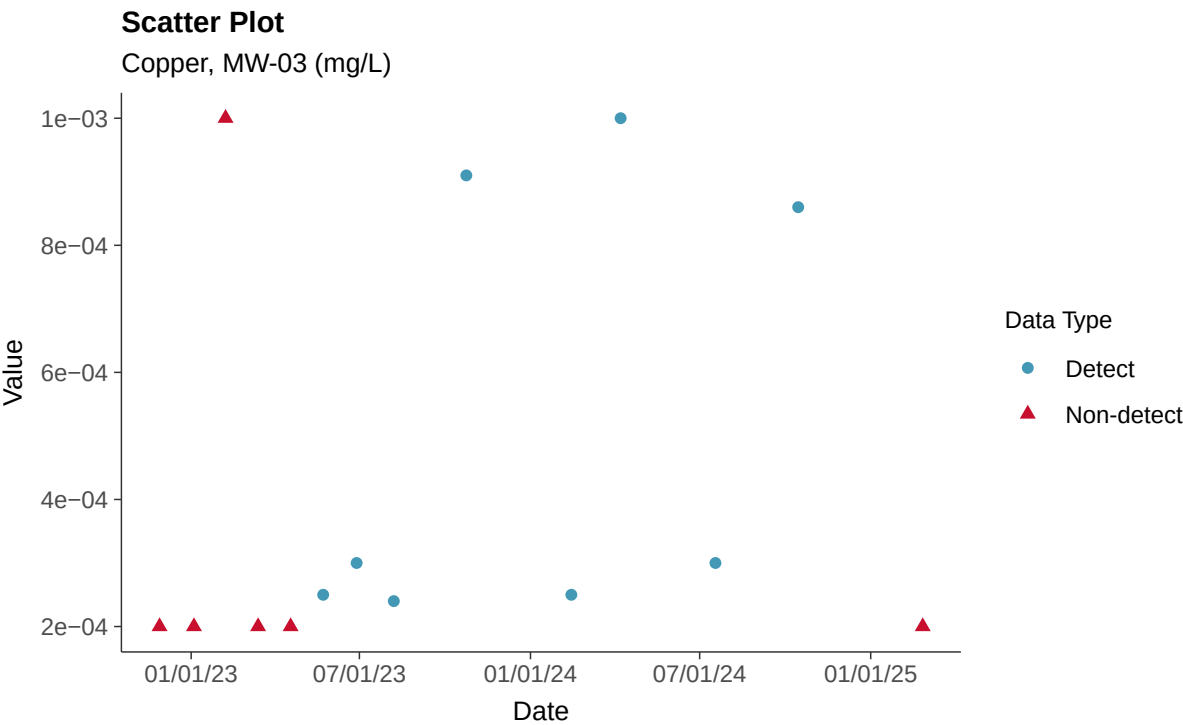


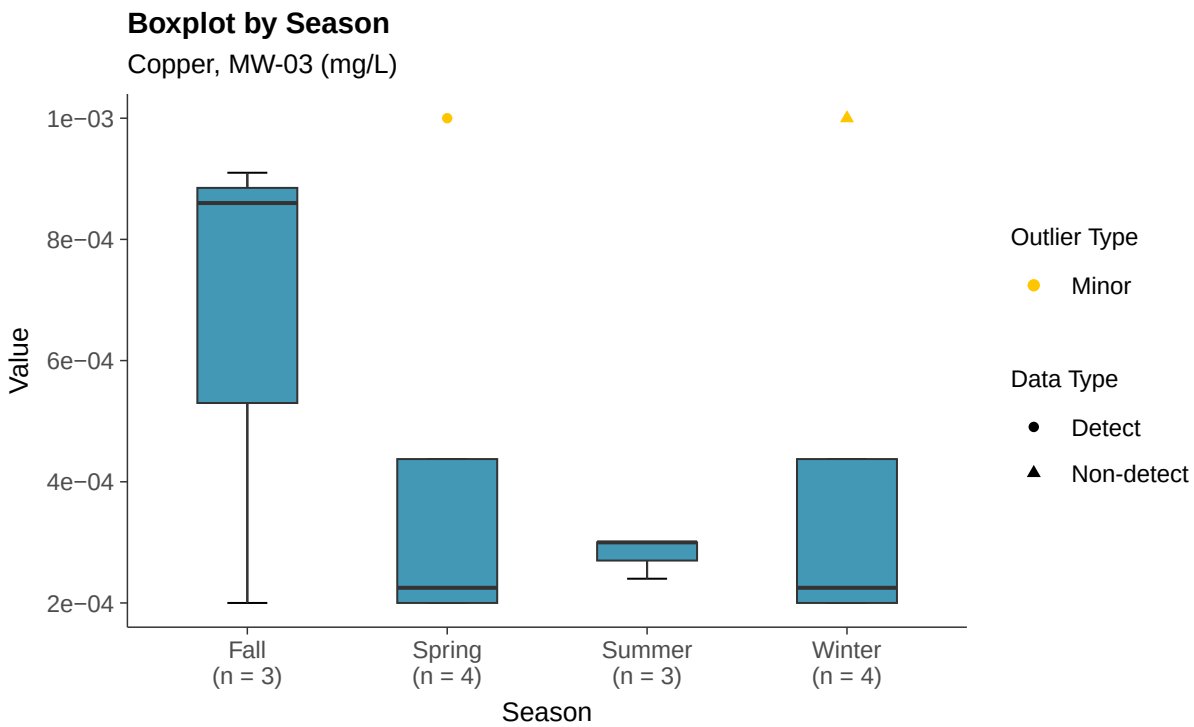
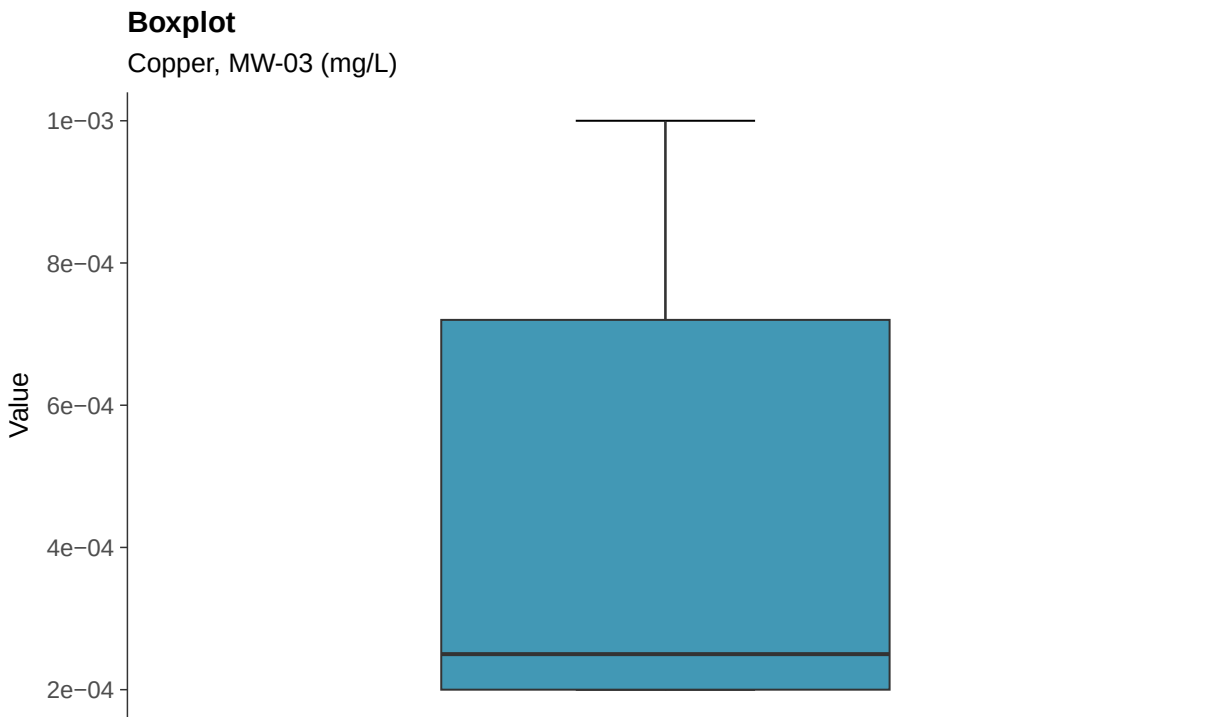


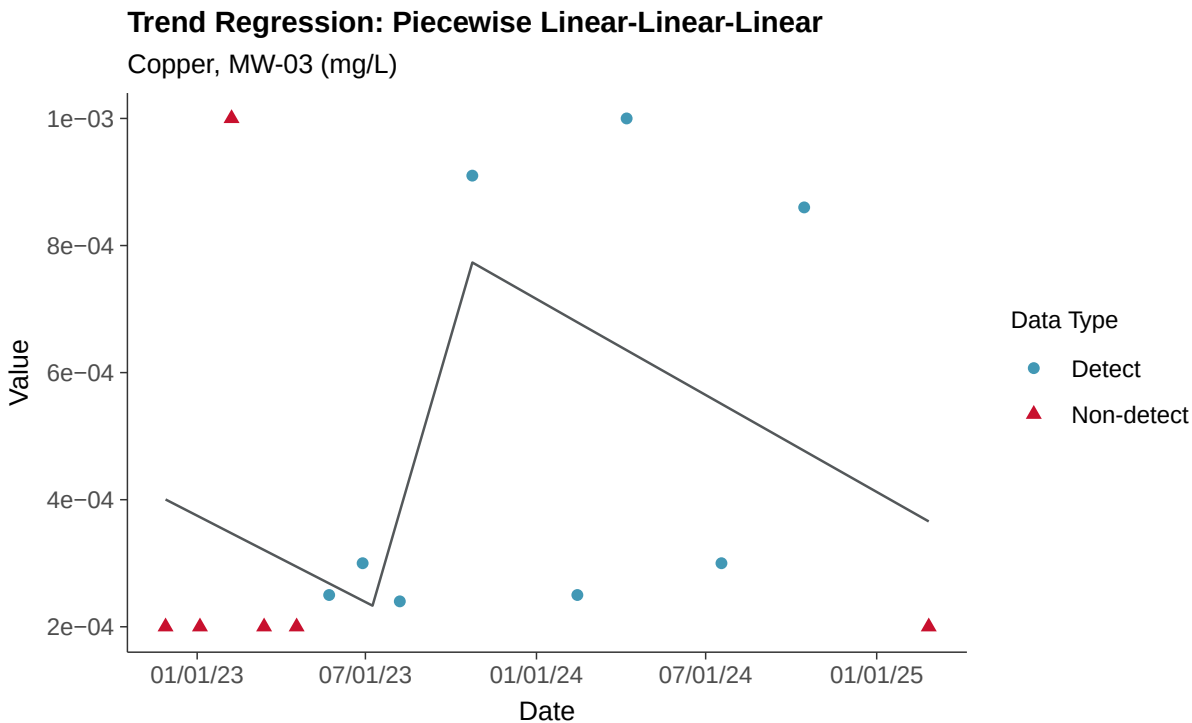
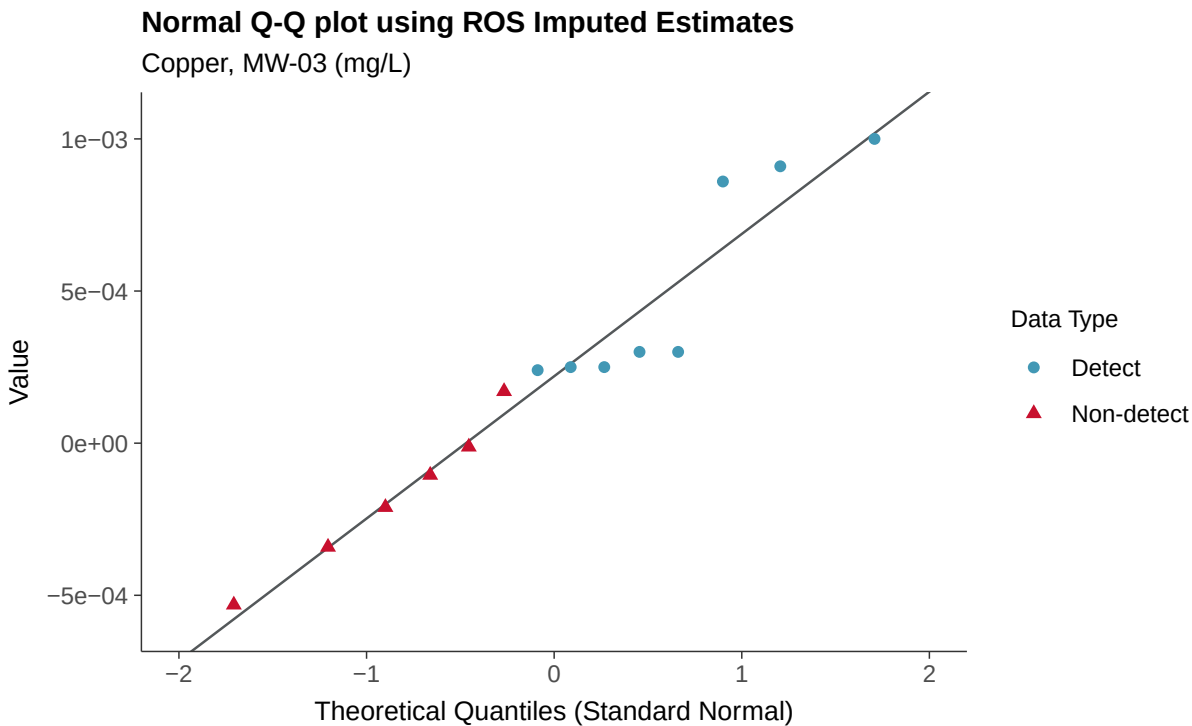


Part 115: Copper, MW-03

ID: 13_2_5_111



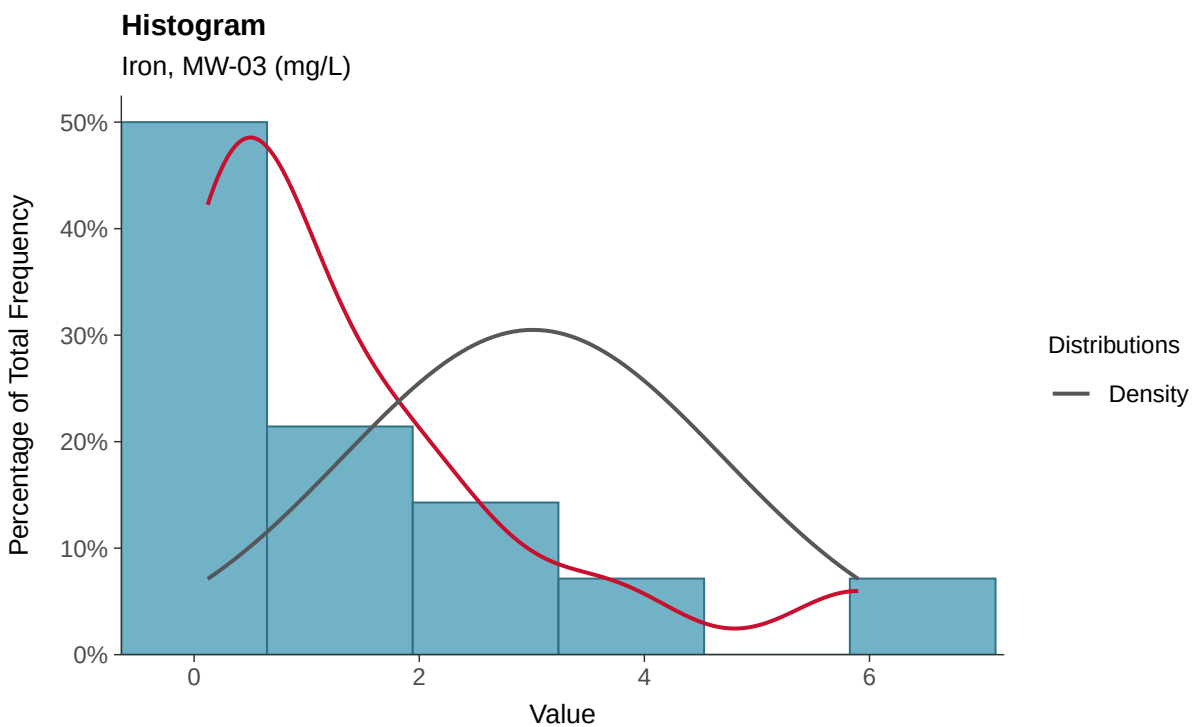
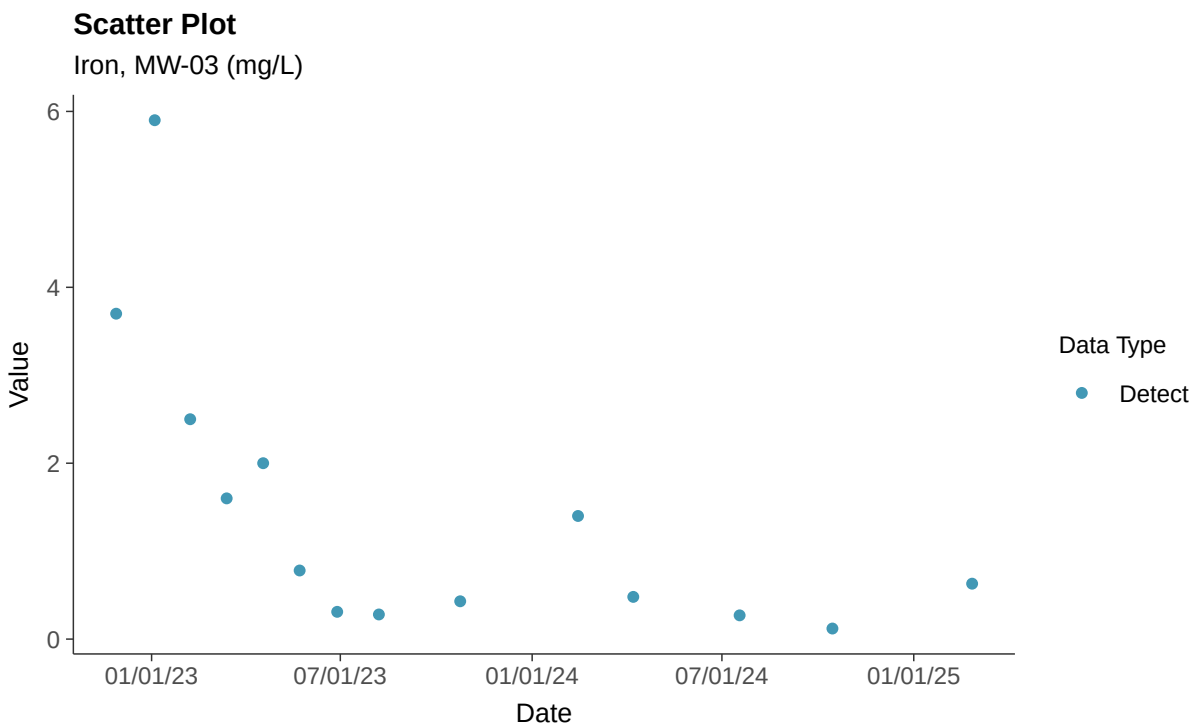


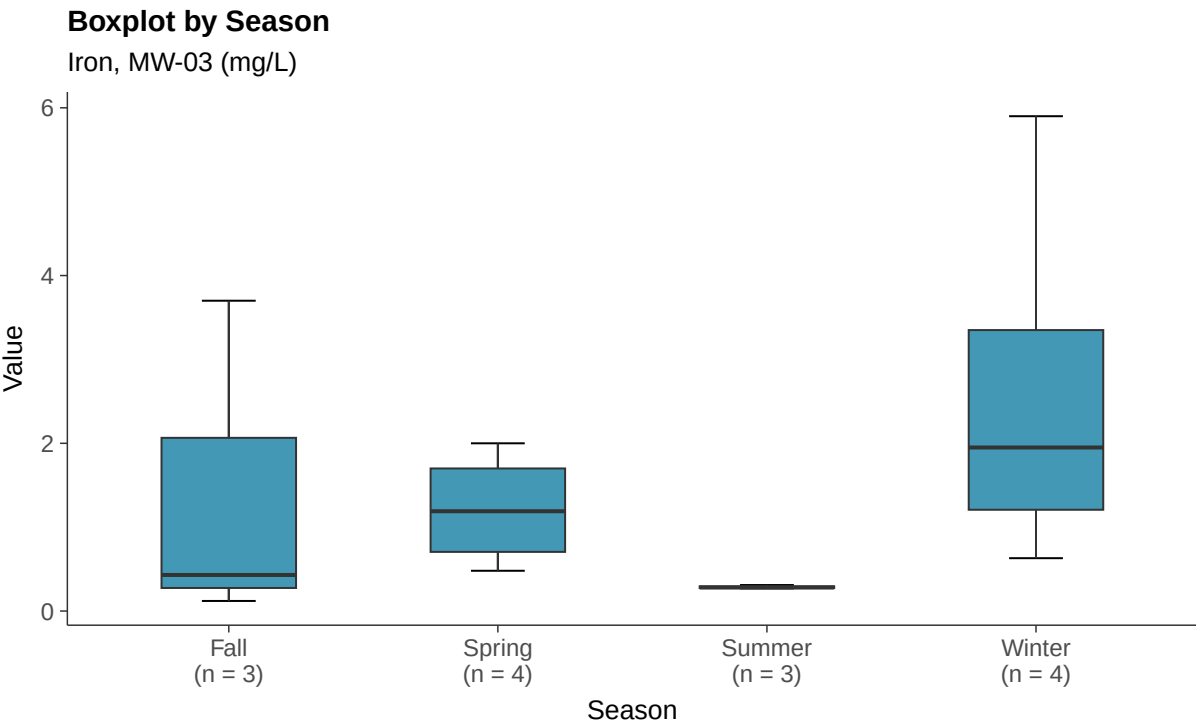
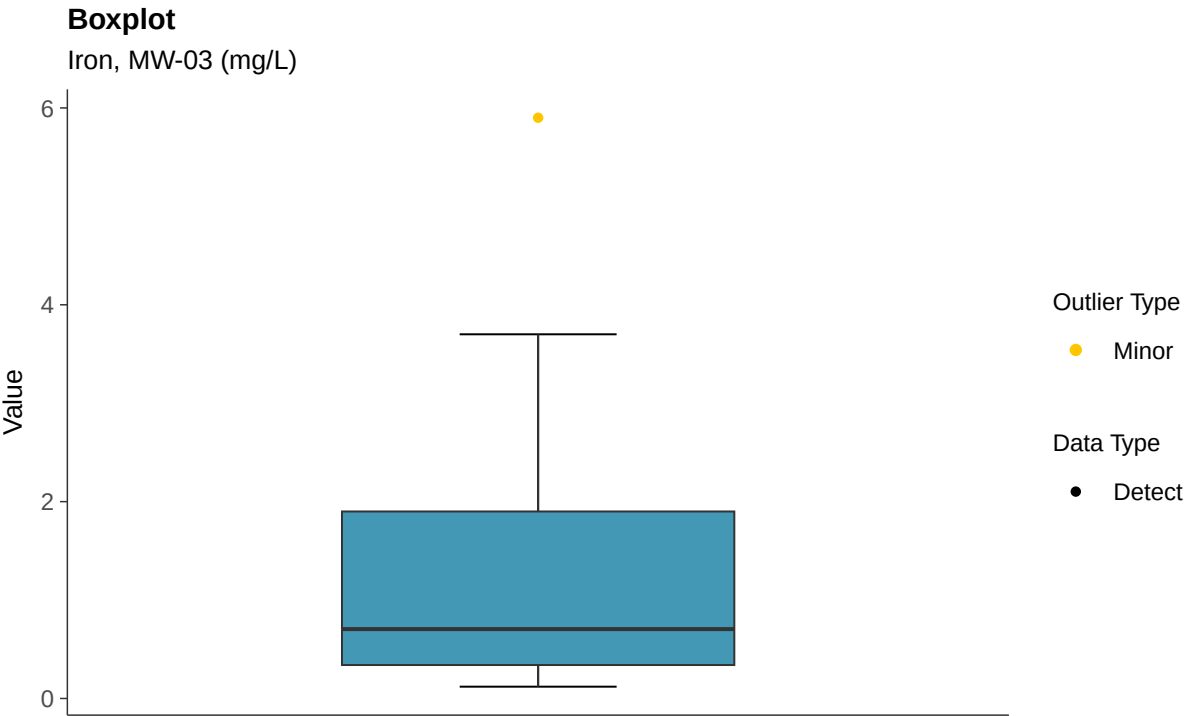


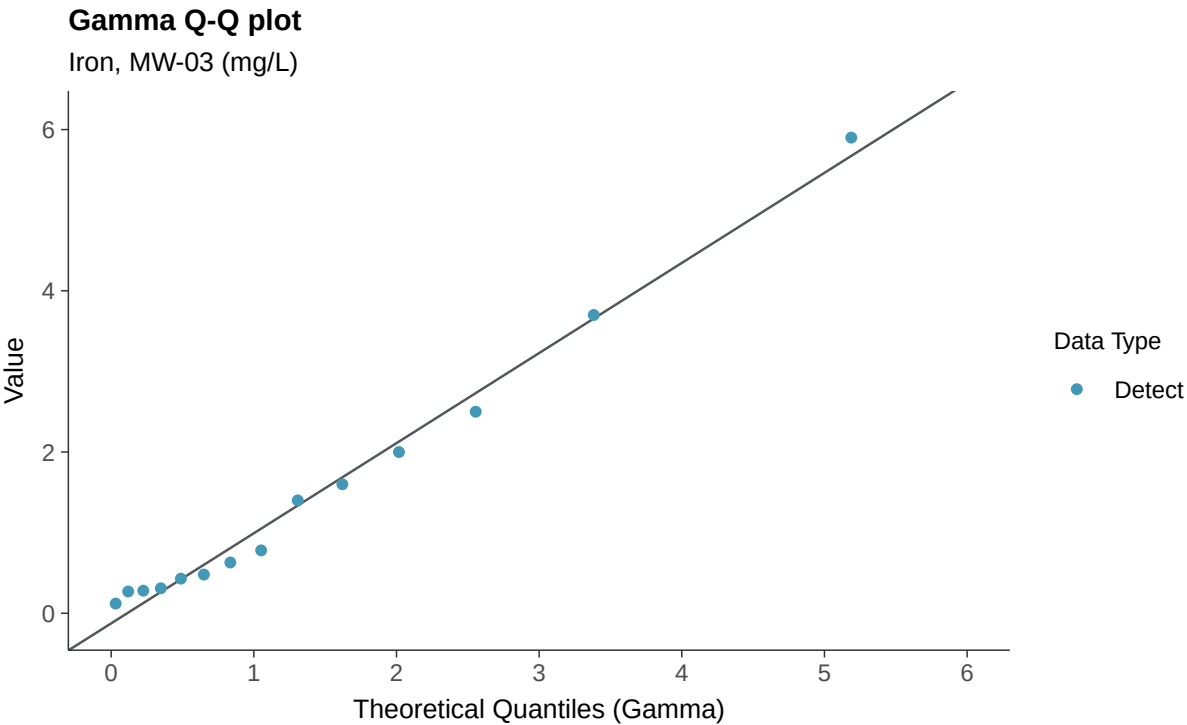
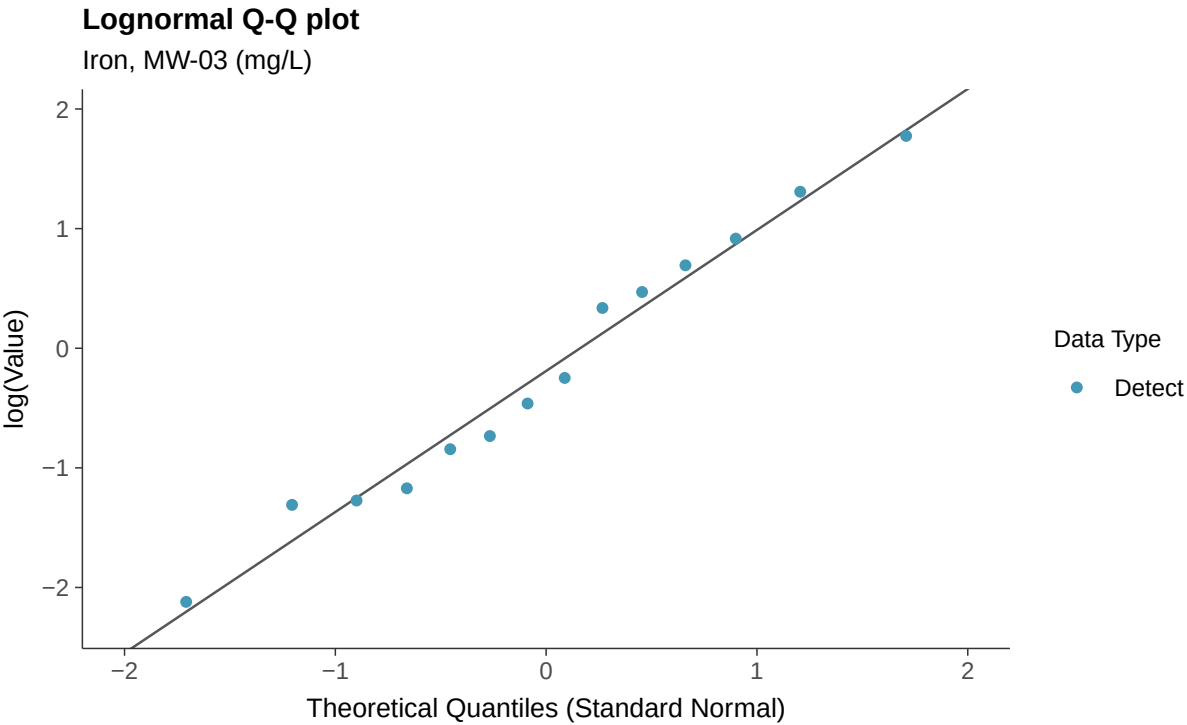


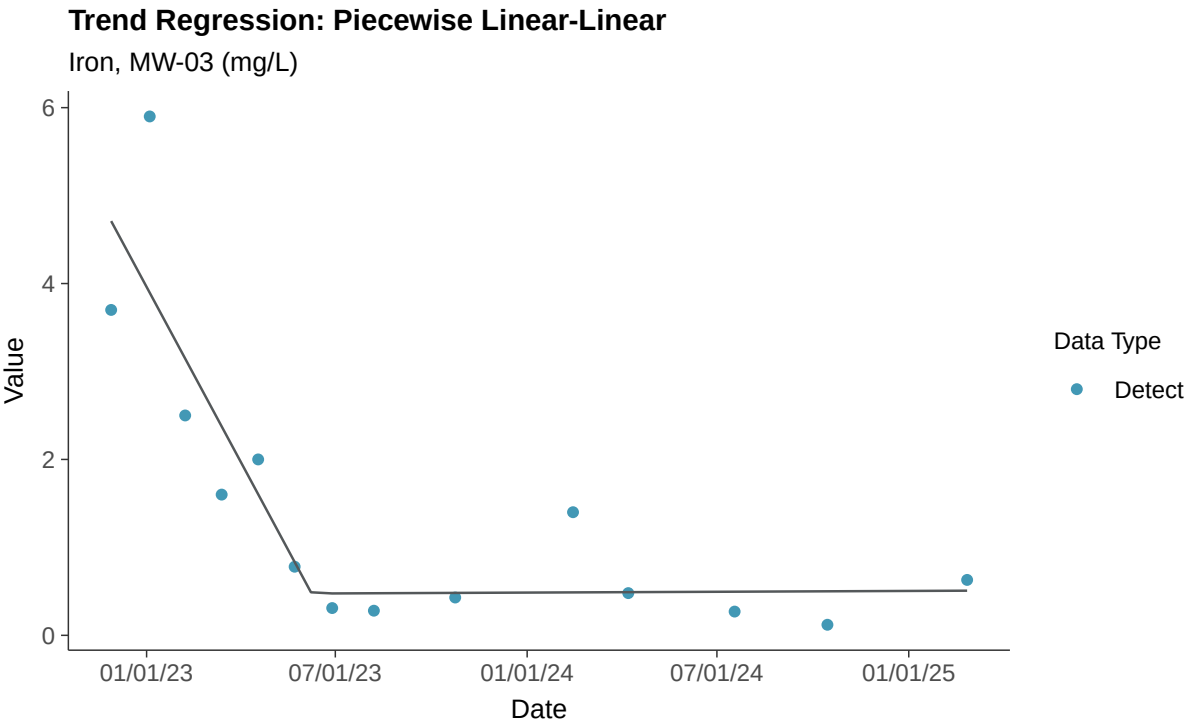
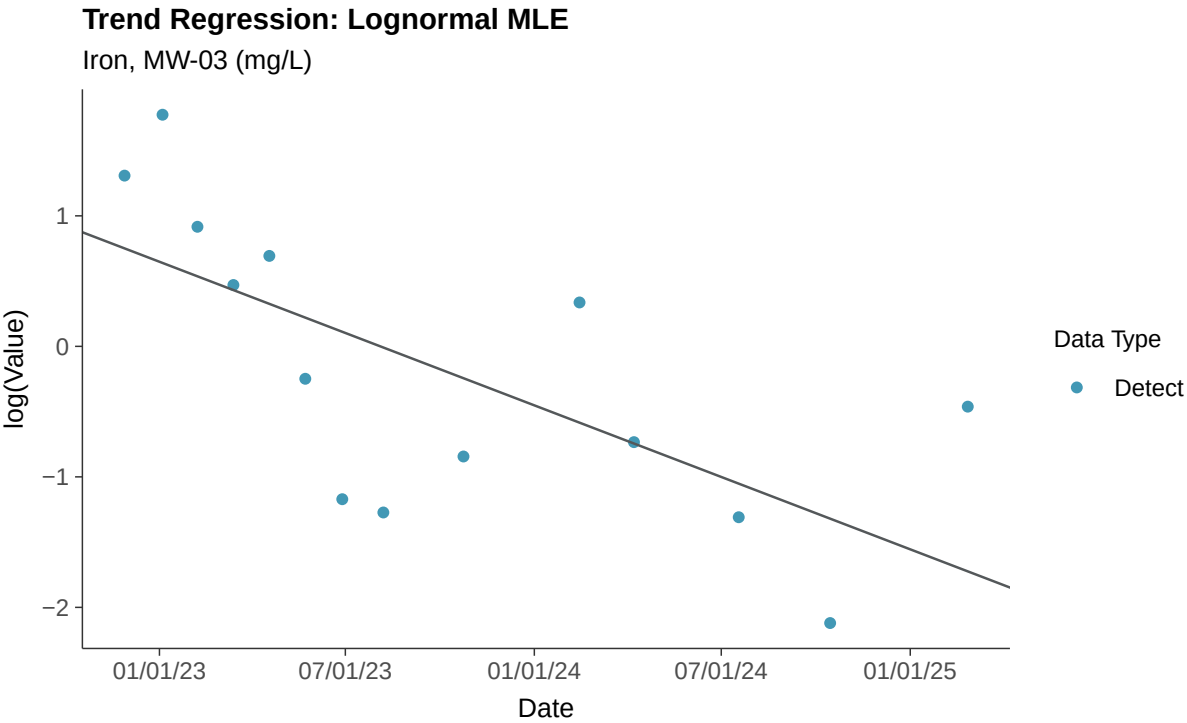
Part 115: Iron, MW-03

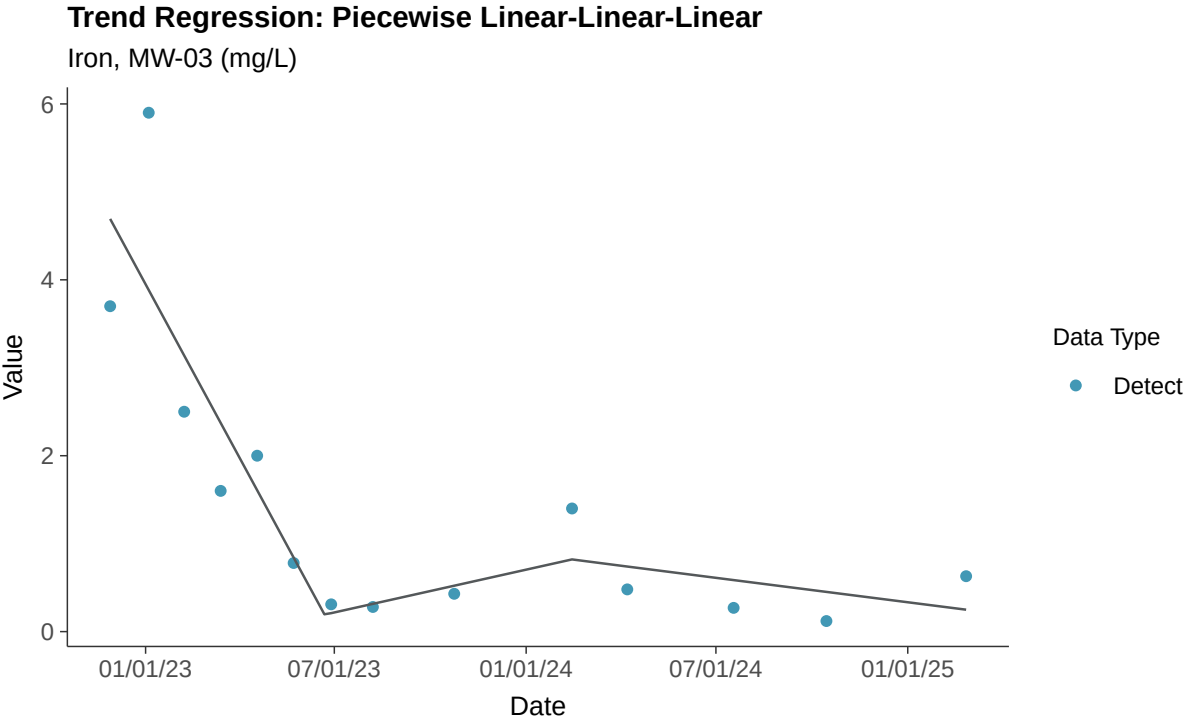
ID: 13_2_5_114







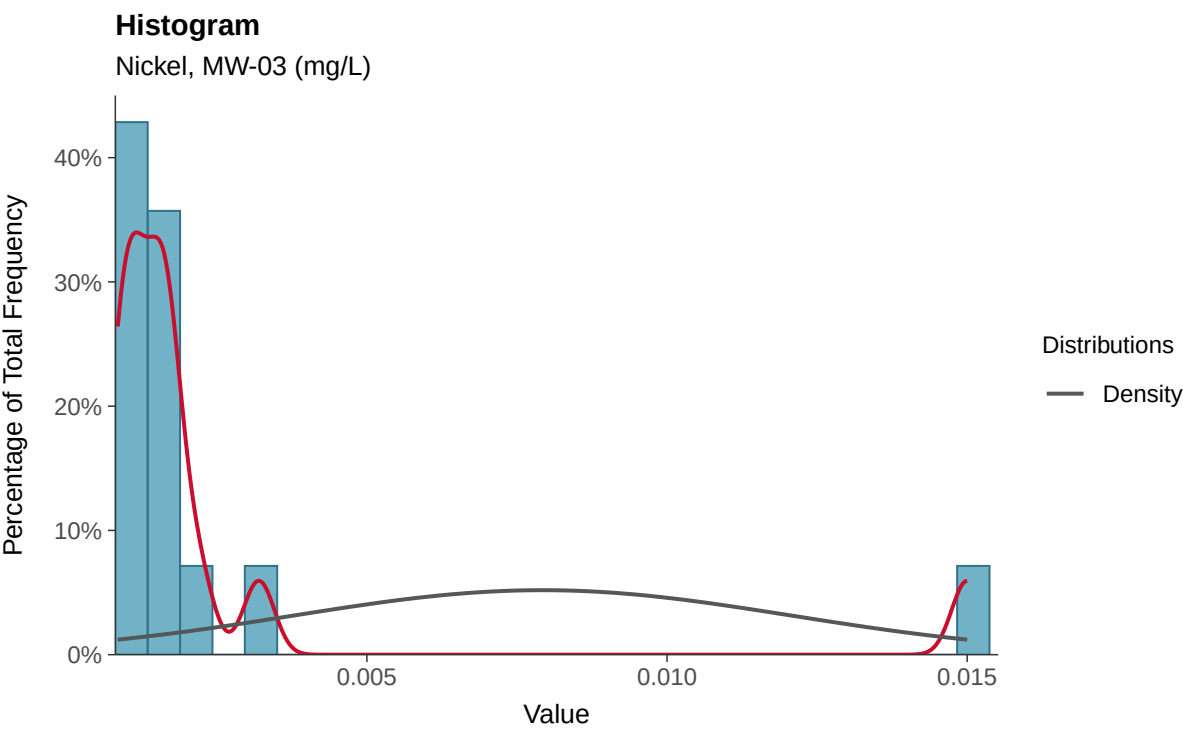
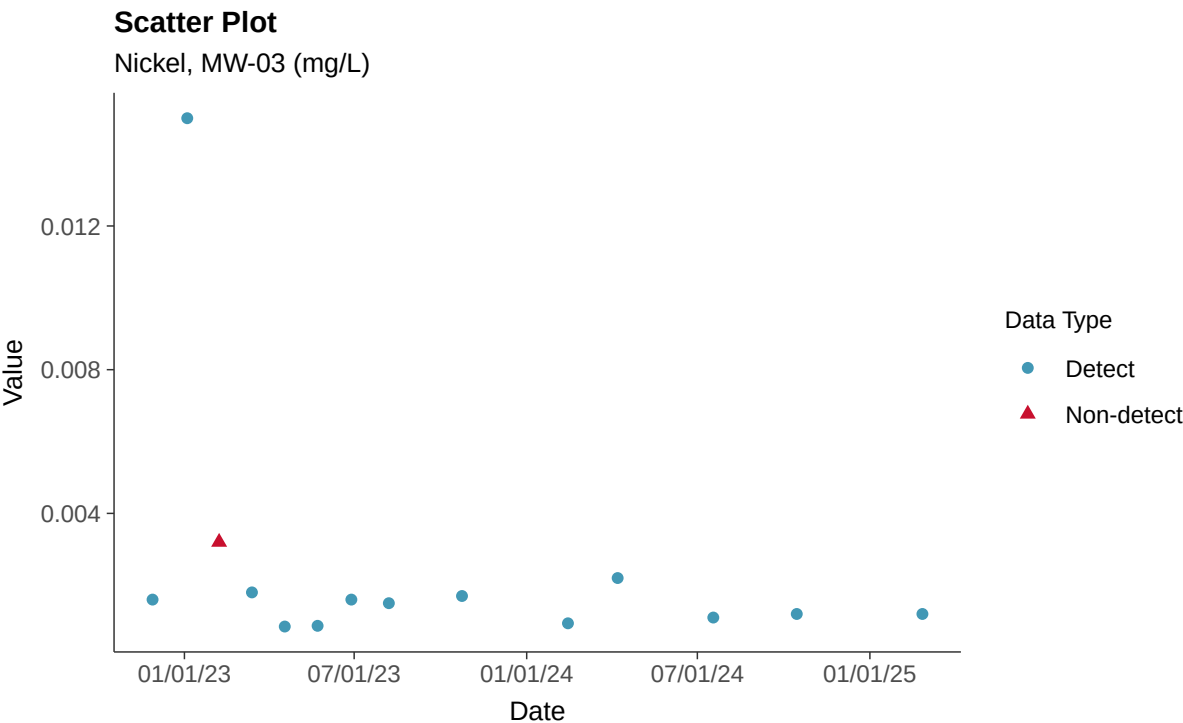


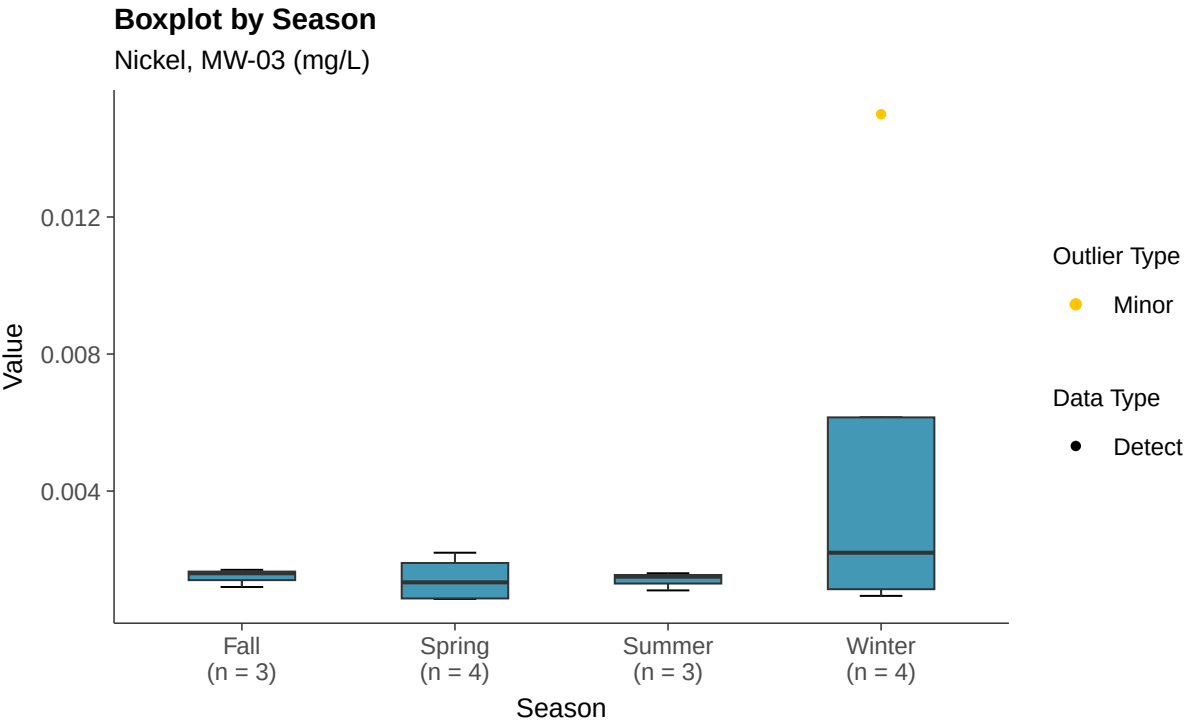
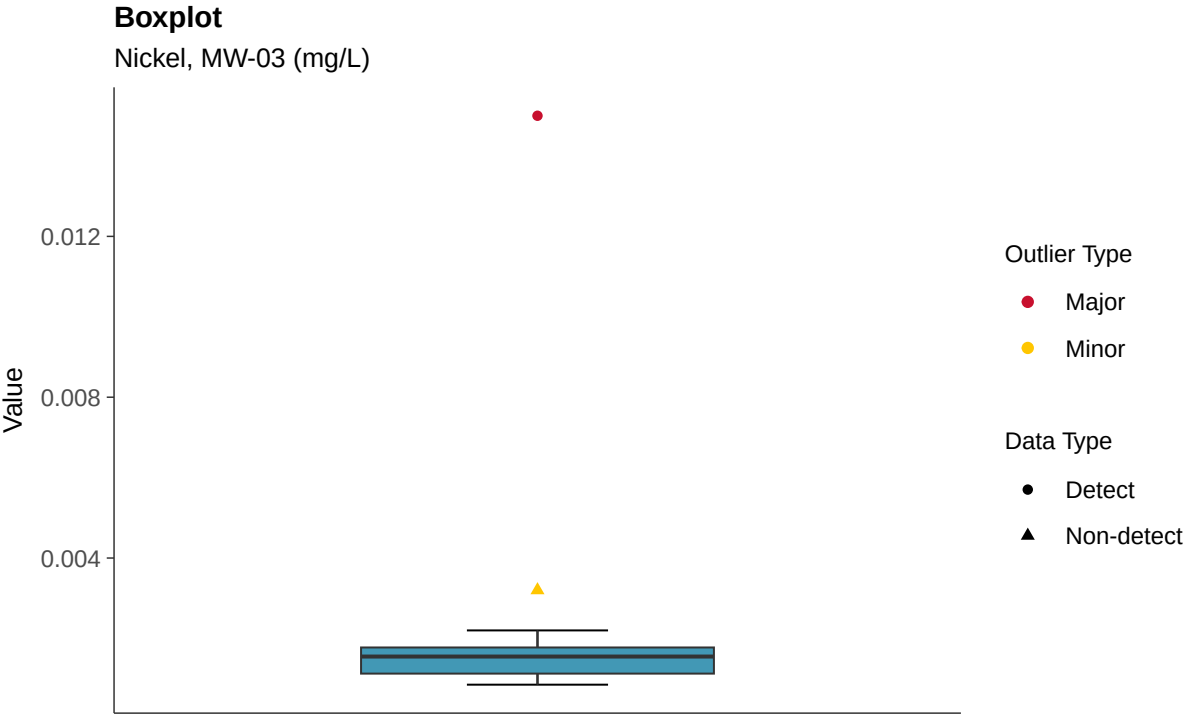


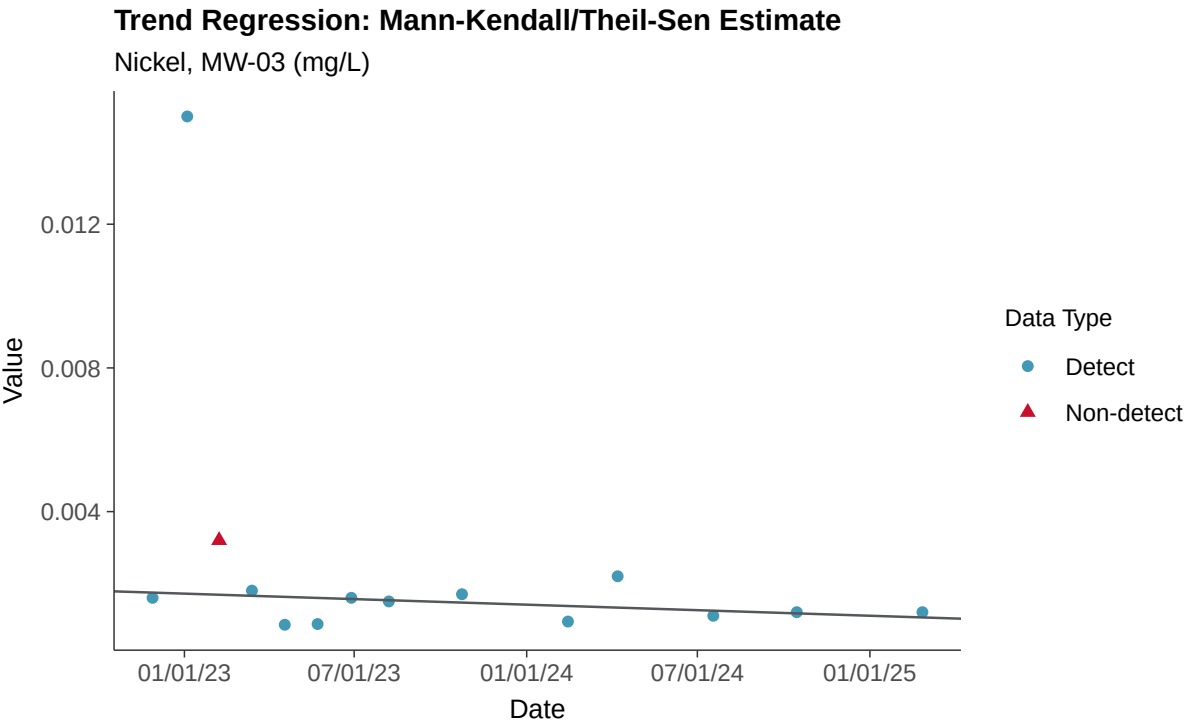
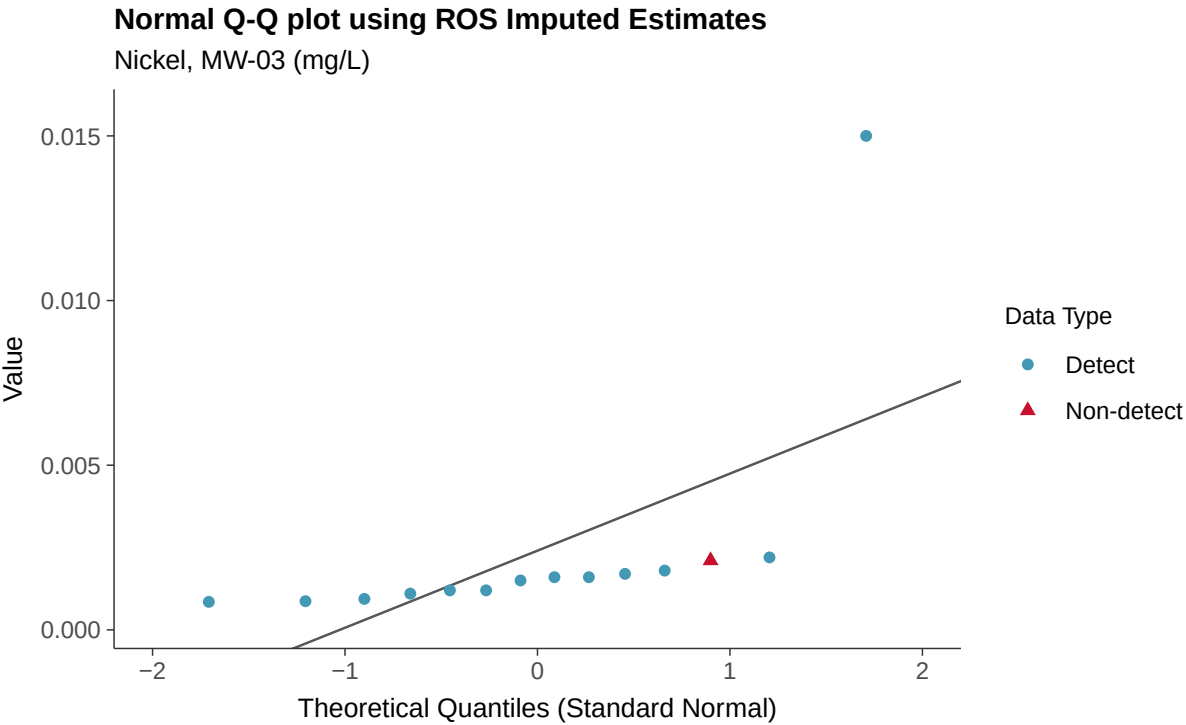


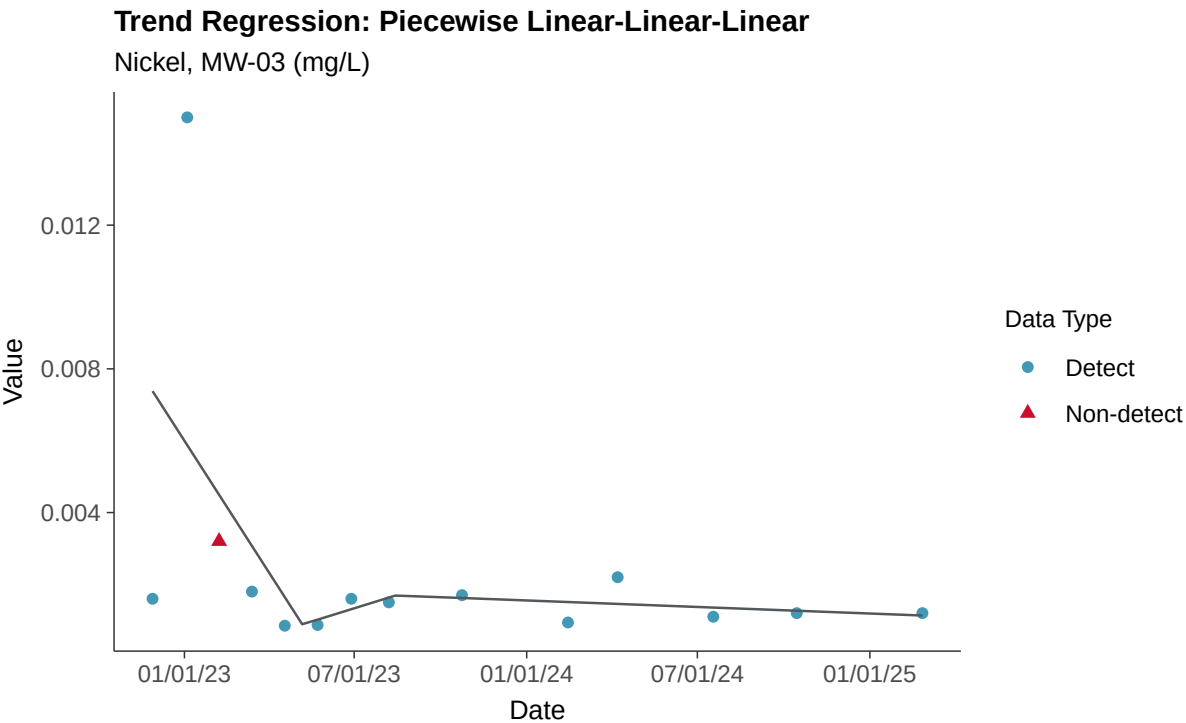
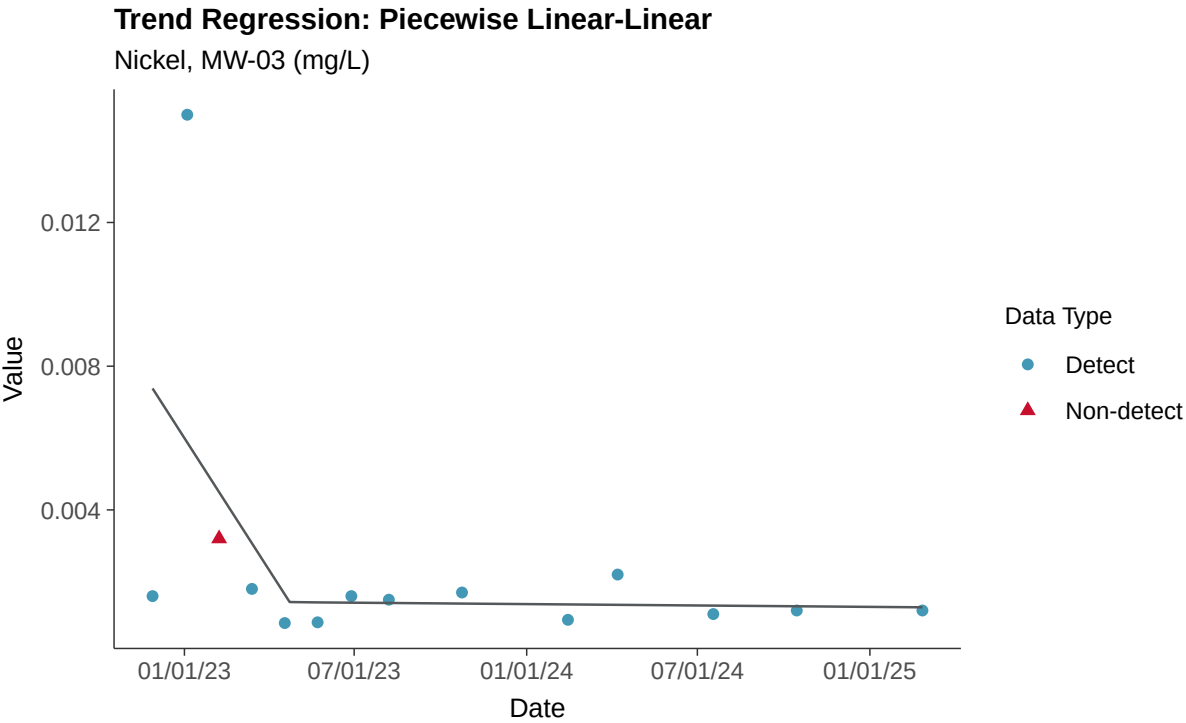
Part 115: Nickel, MW-03

ID: 13_2_5_119





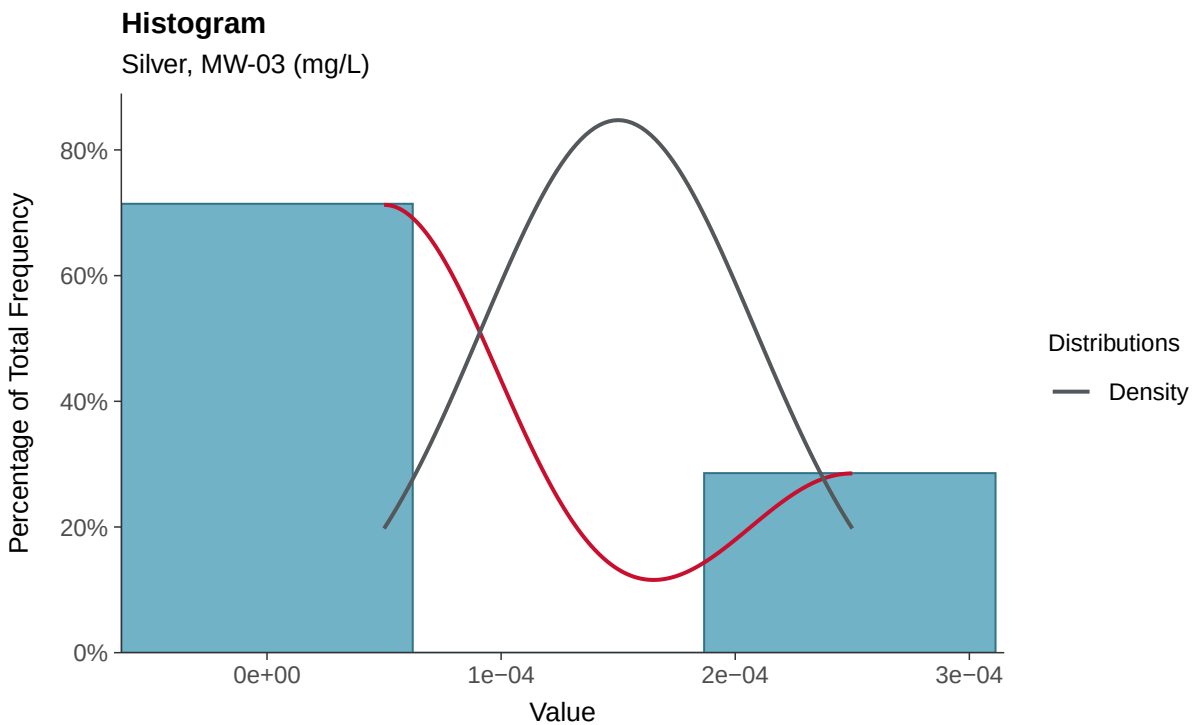
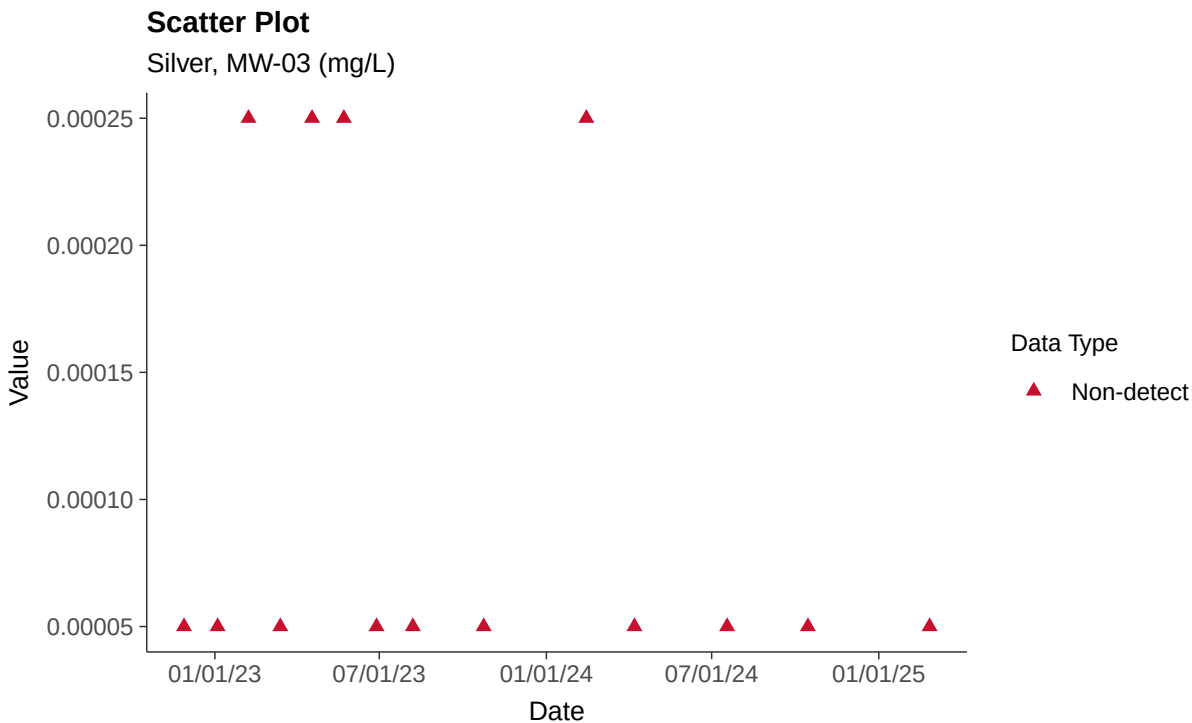


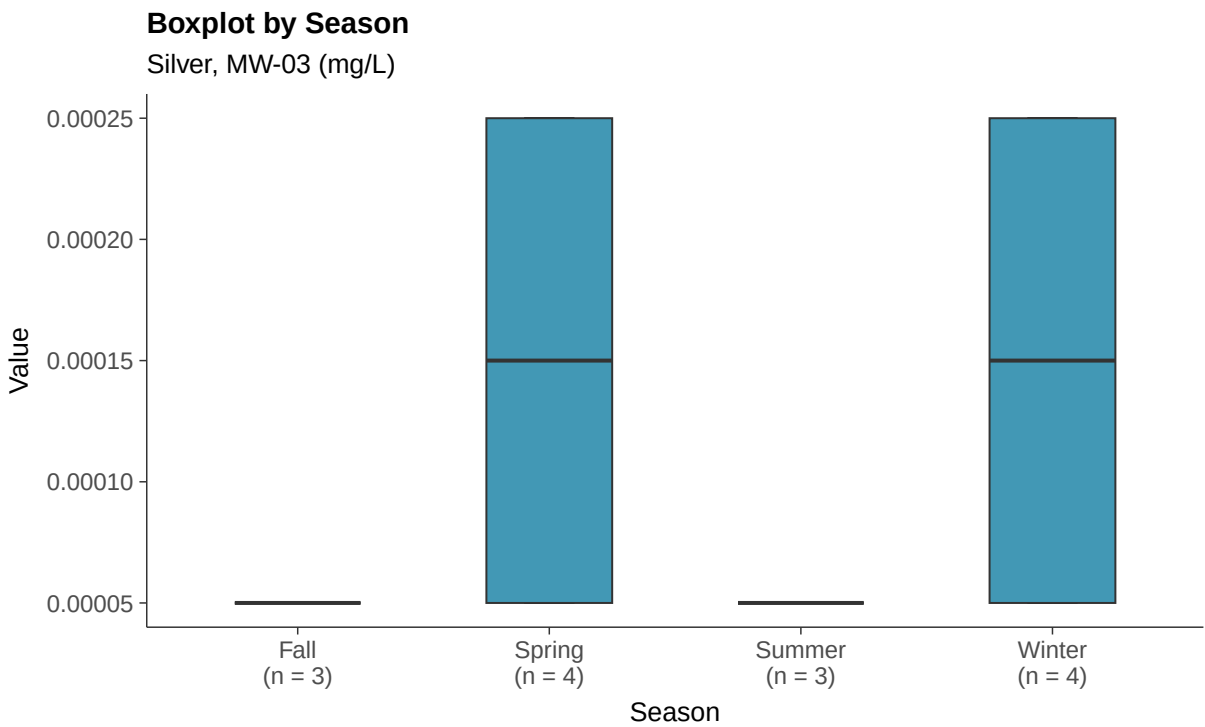
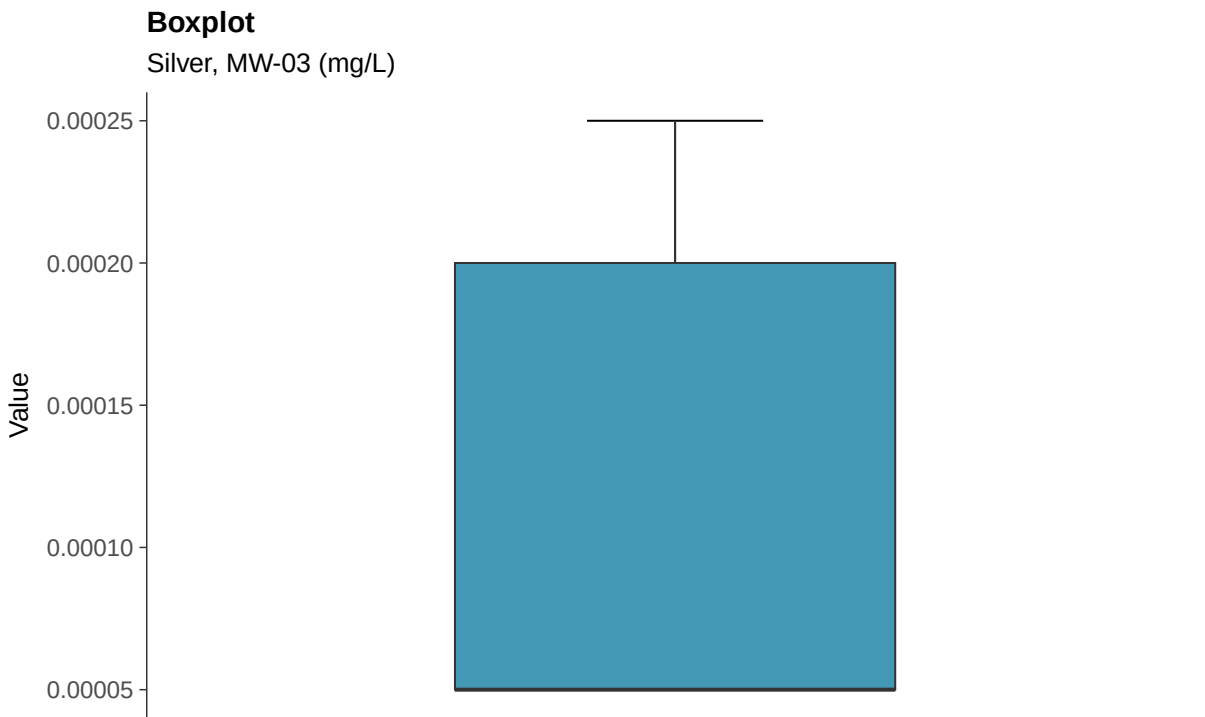


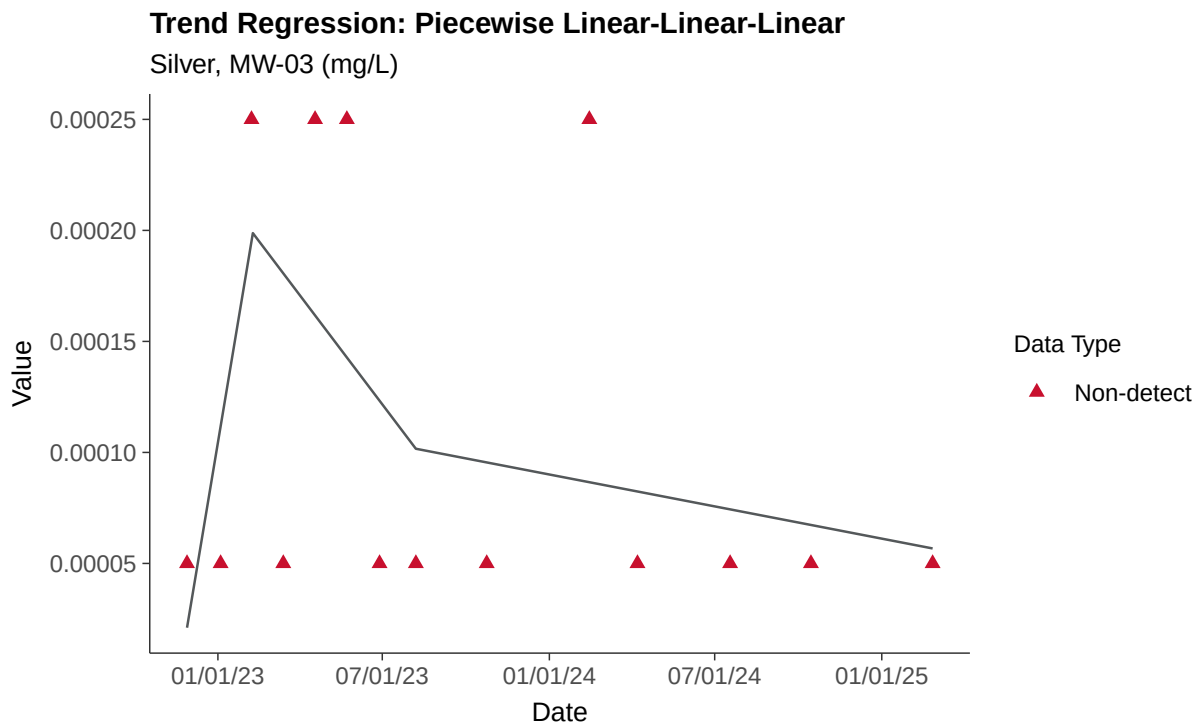
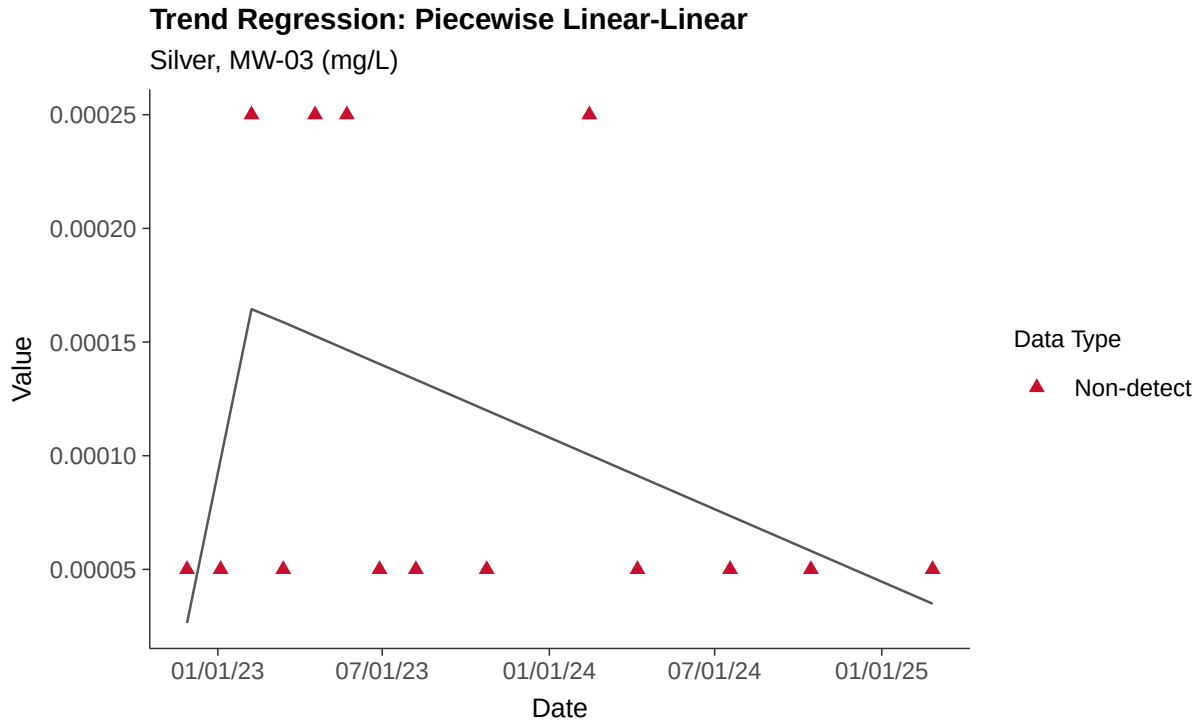


Part 115: Silver, MW-03

ID: 13_2_5_123



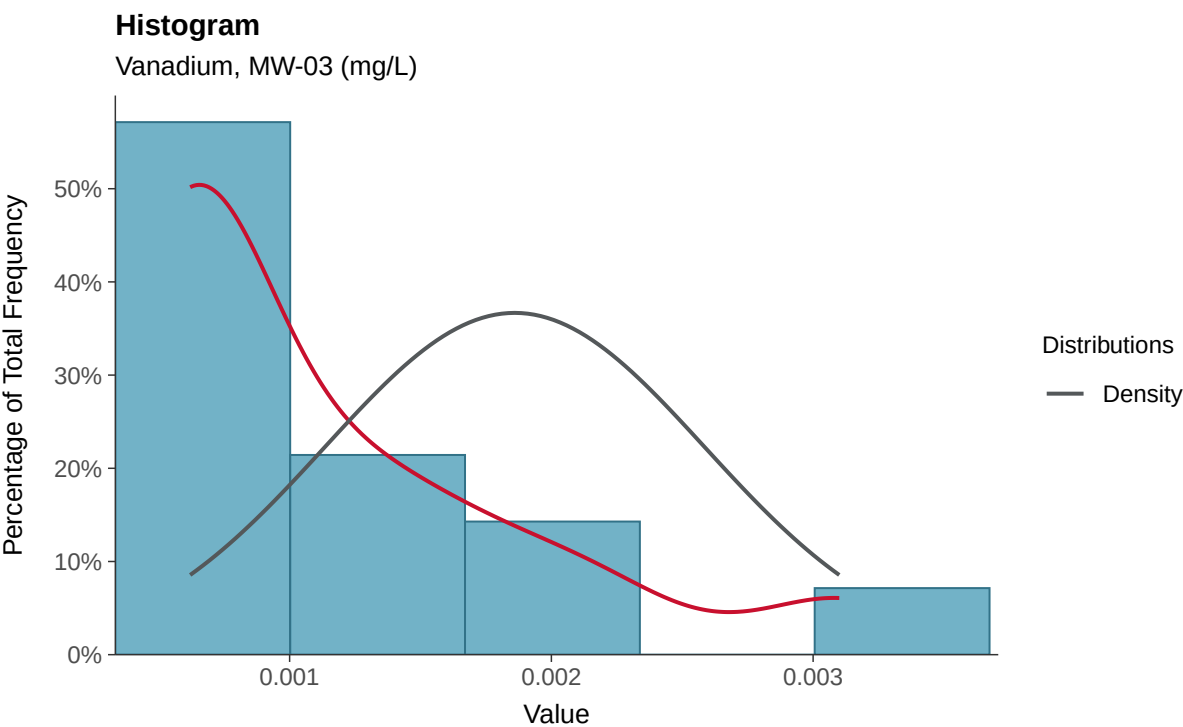
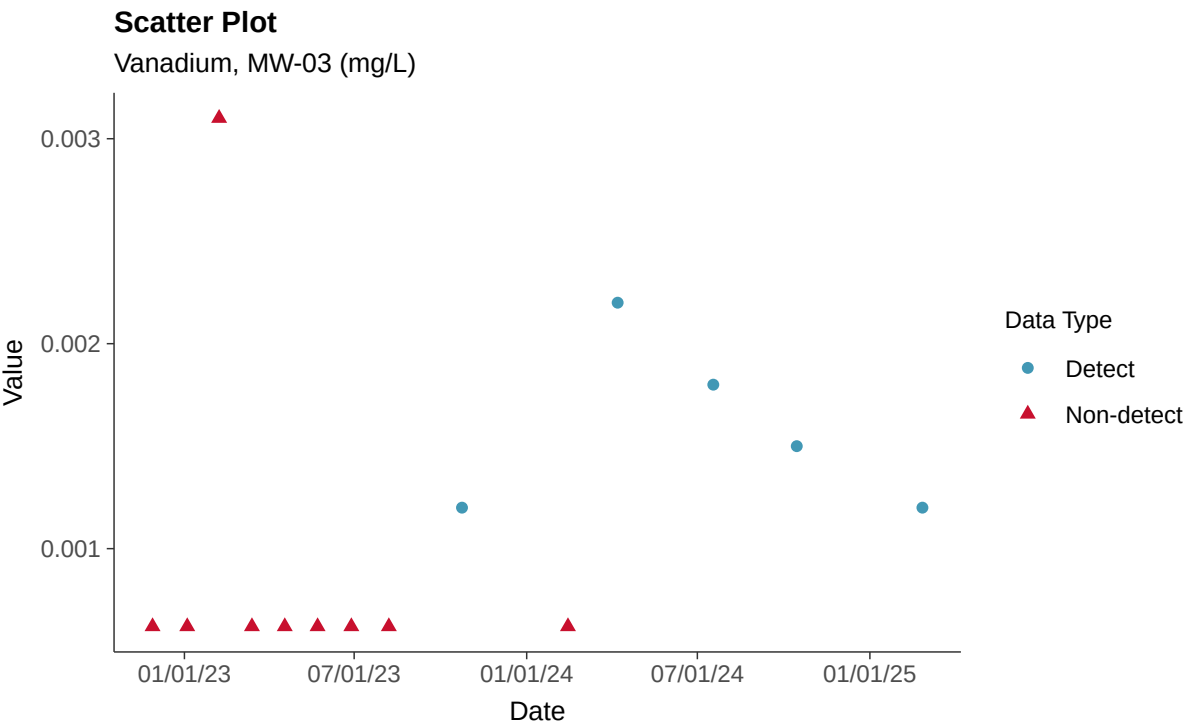


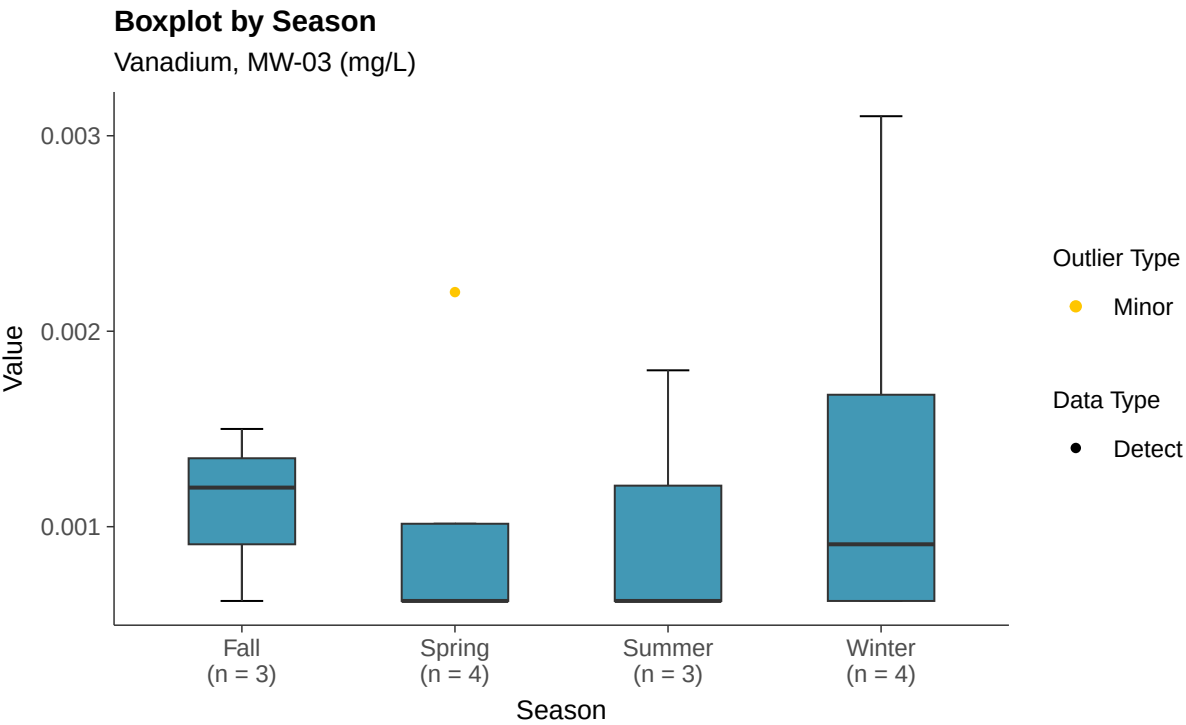
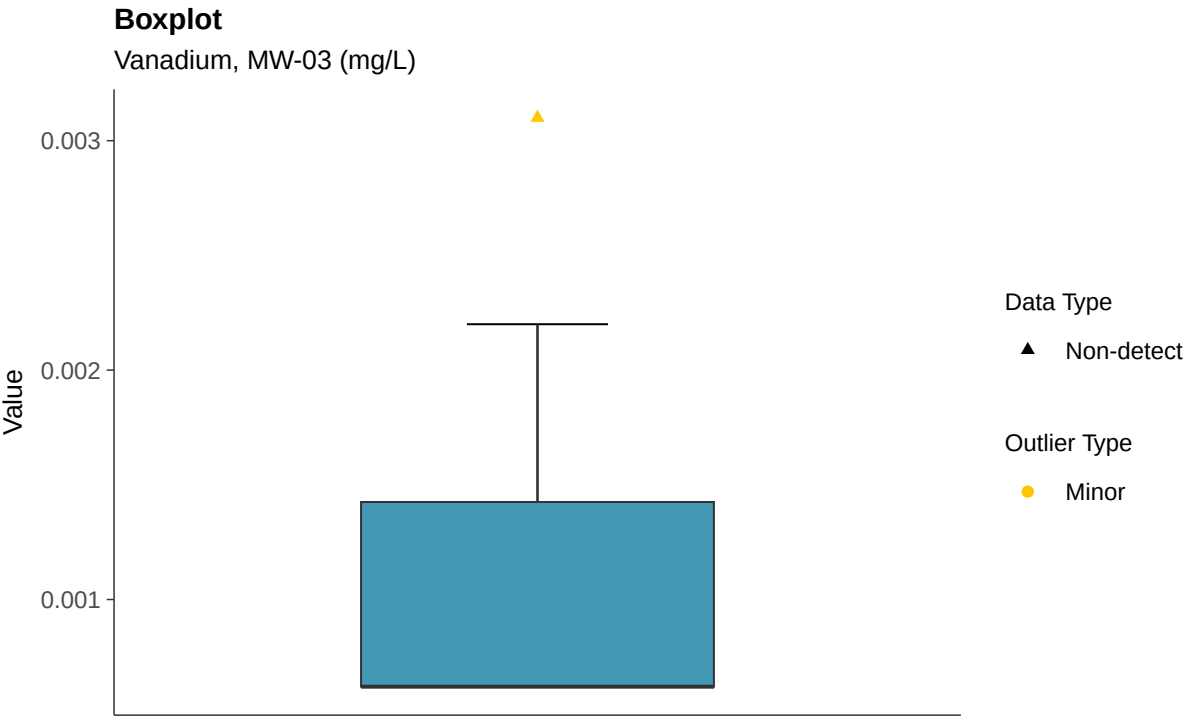


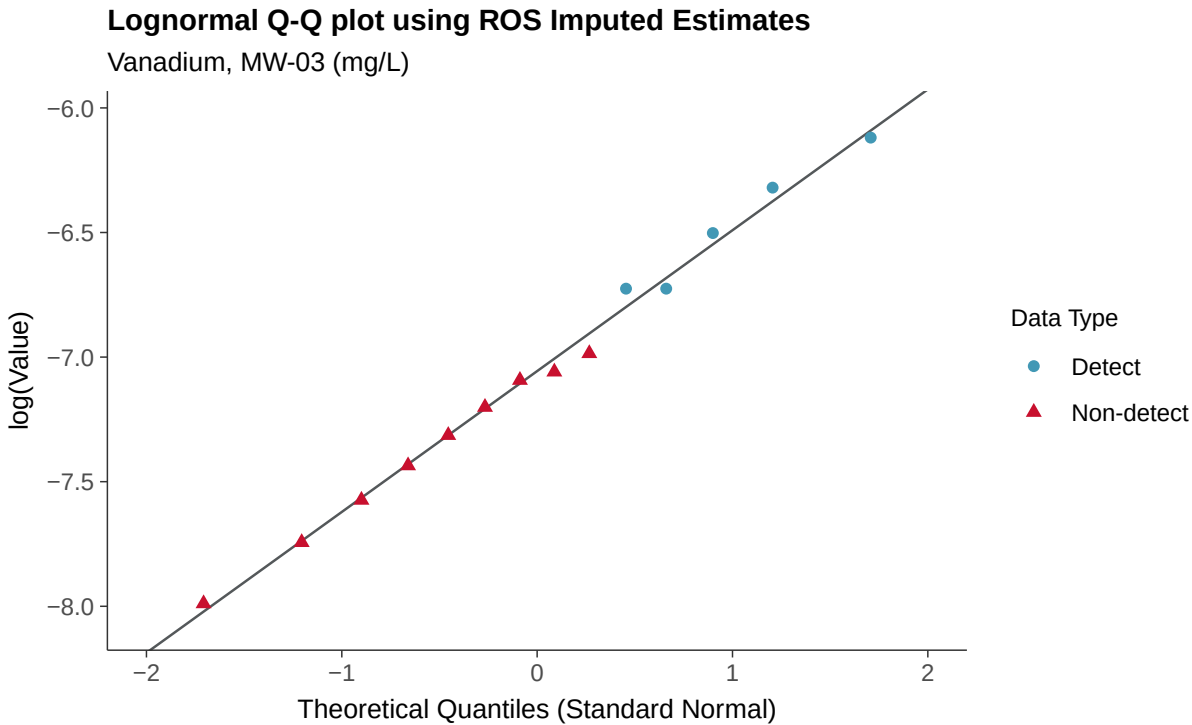
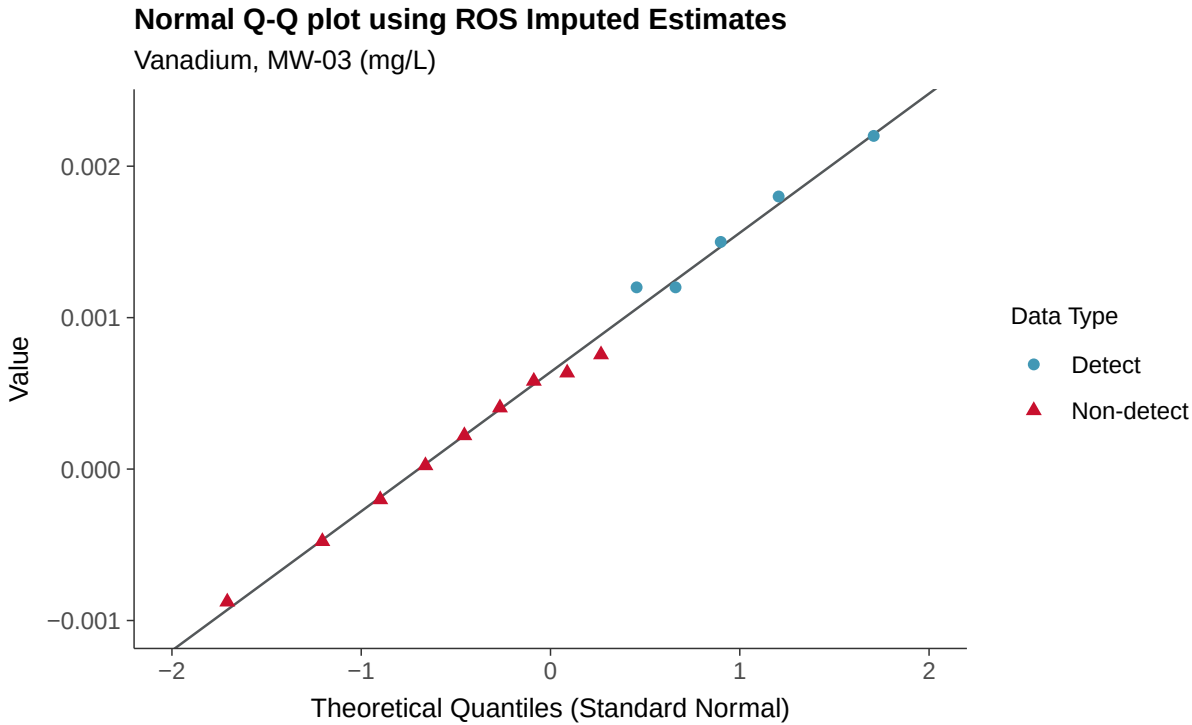


Part 115: Vanadium, MW-03

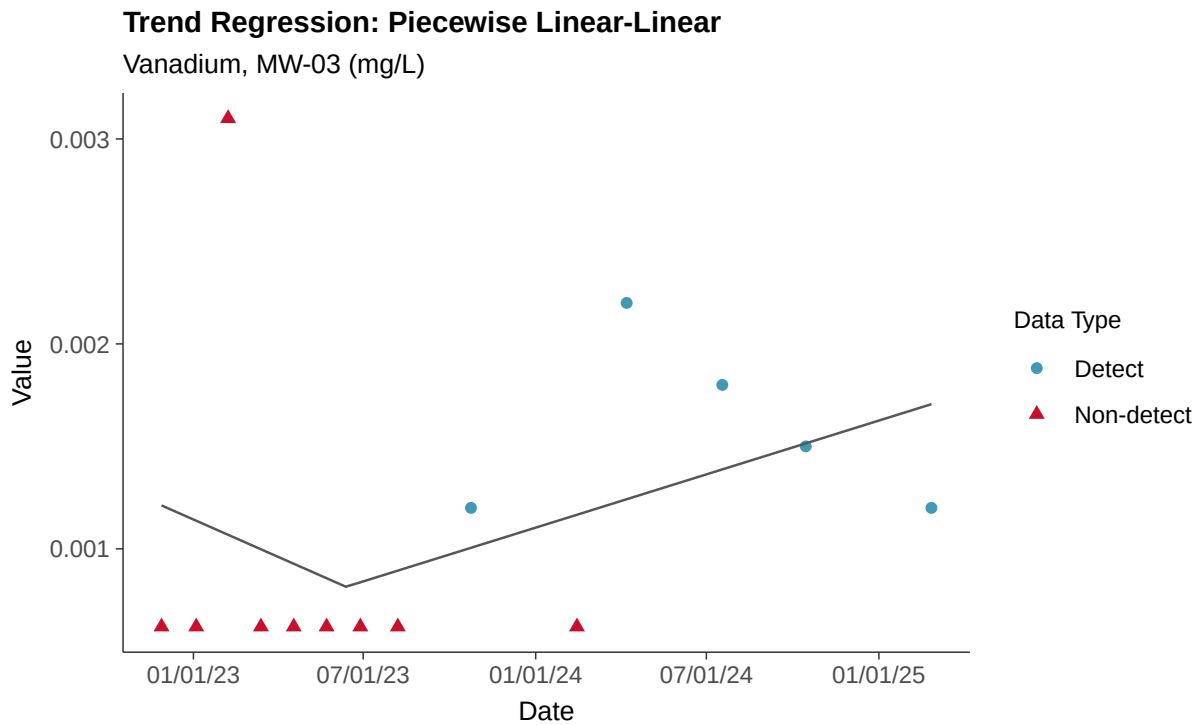
ID: 13_2_5_128

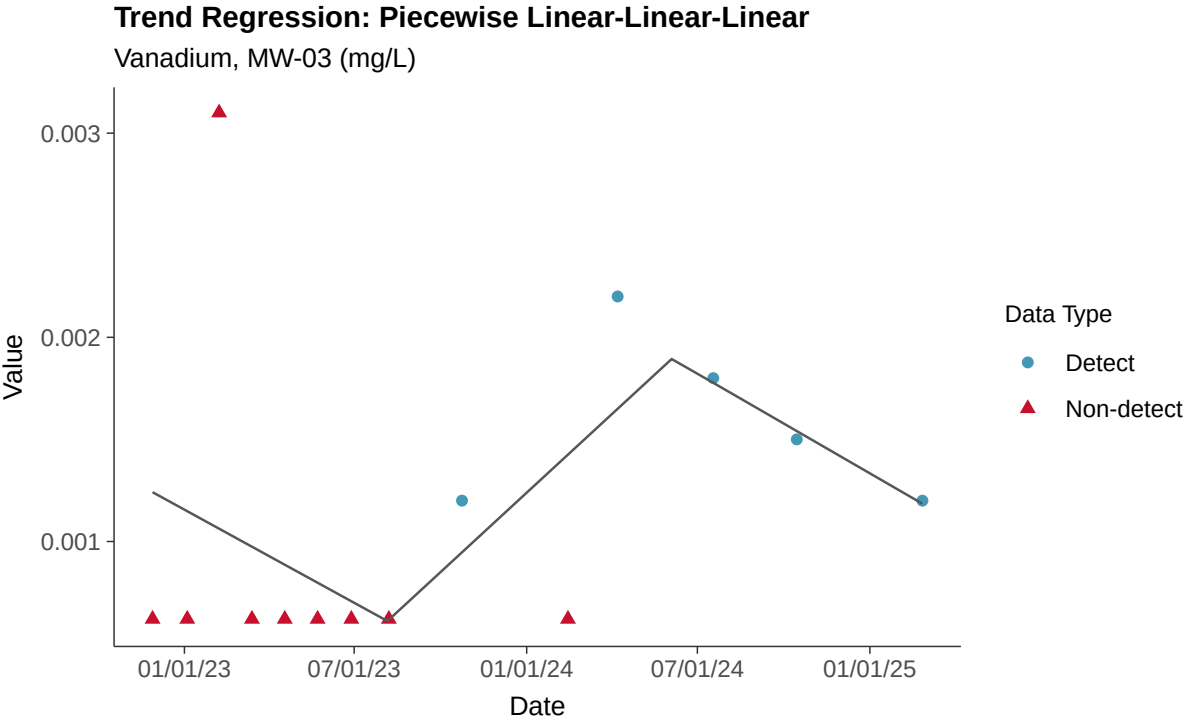






Vanadium, MW-03 (mg/L)

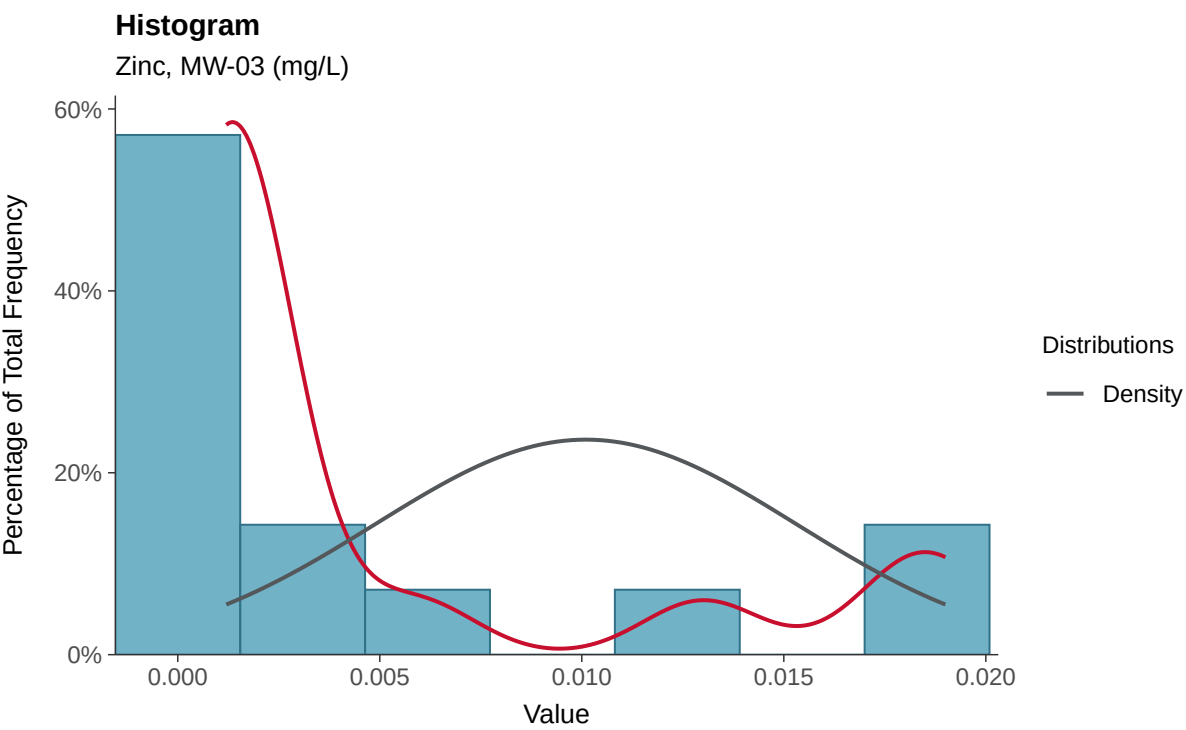
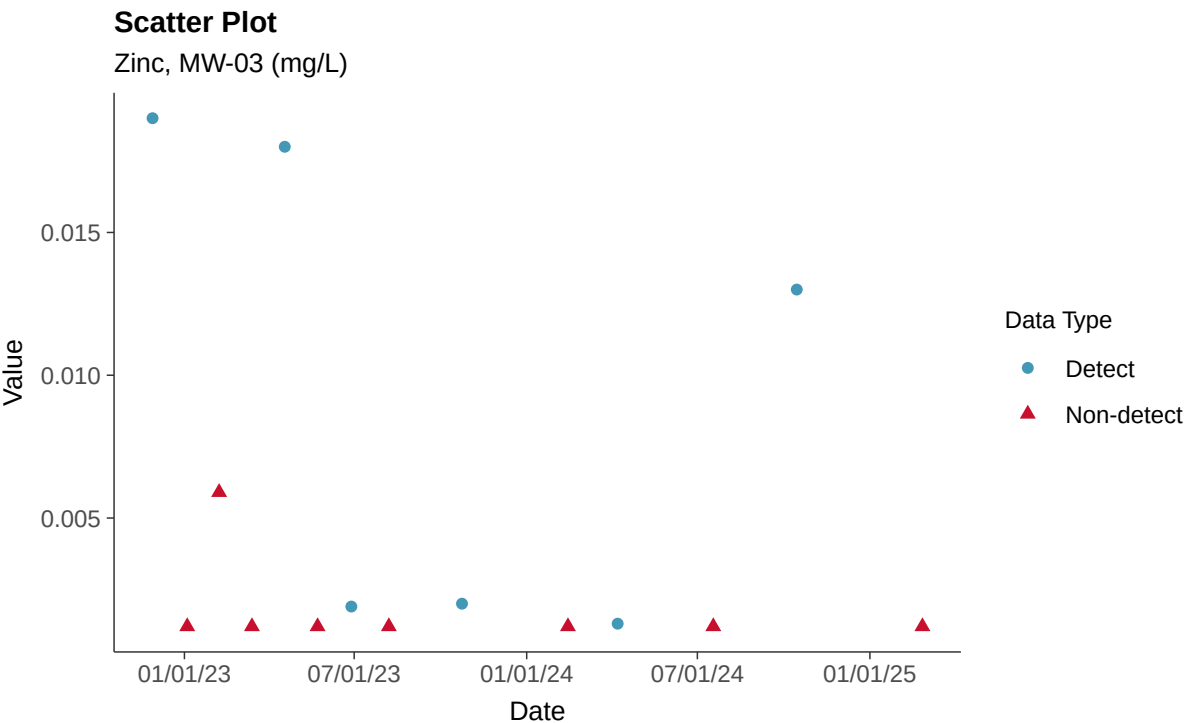


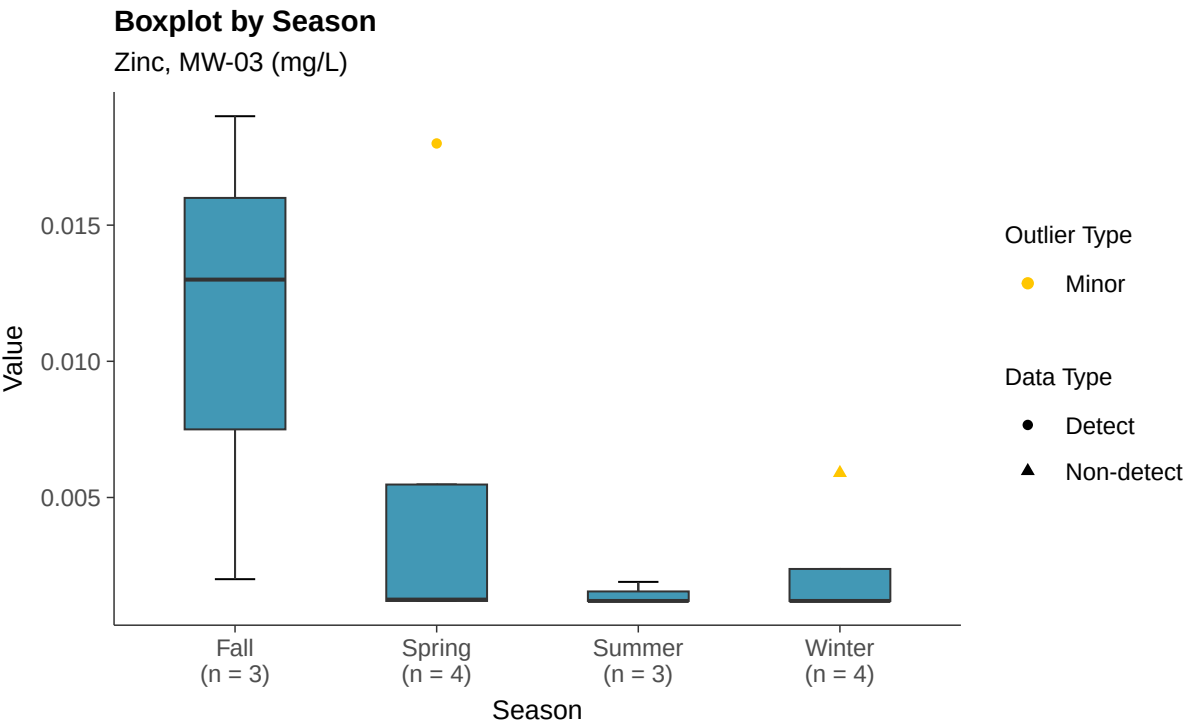
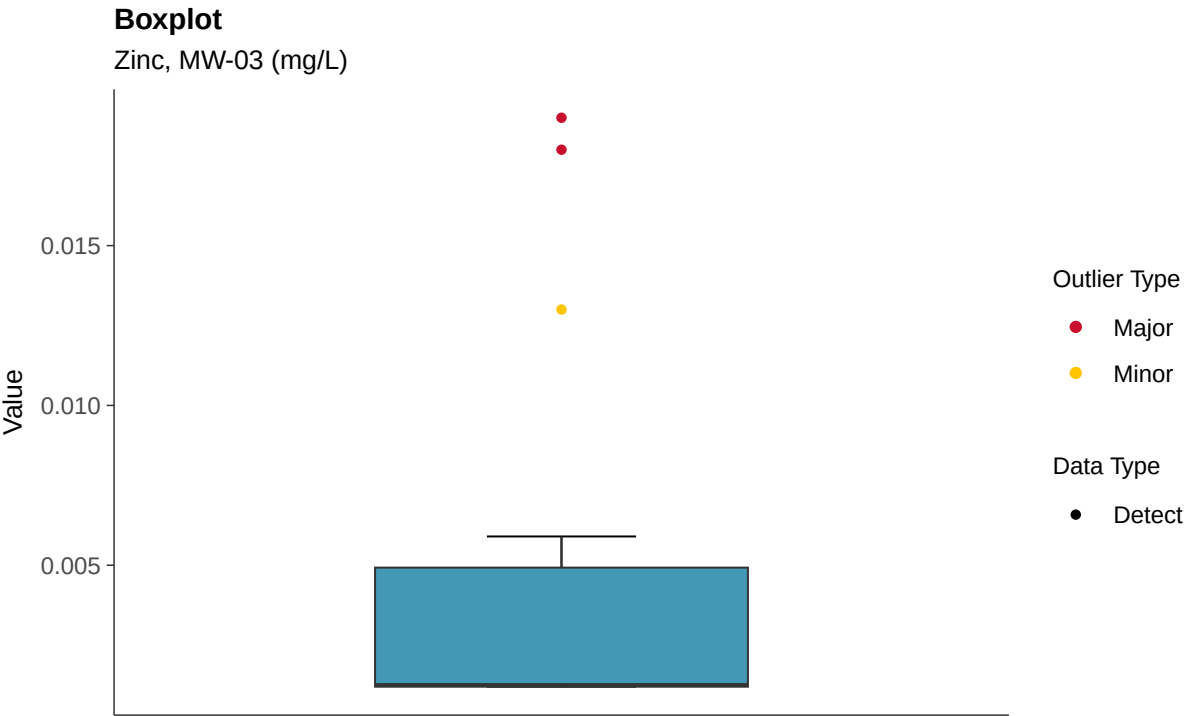


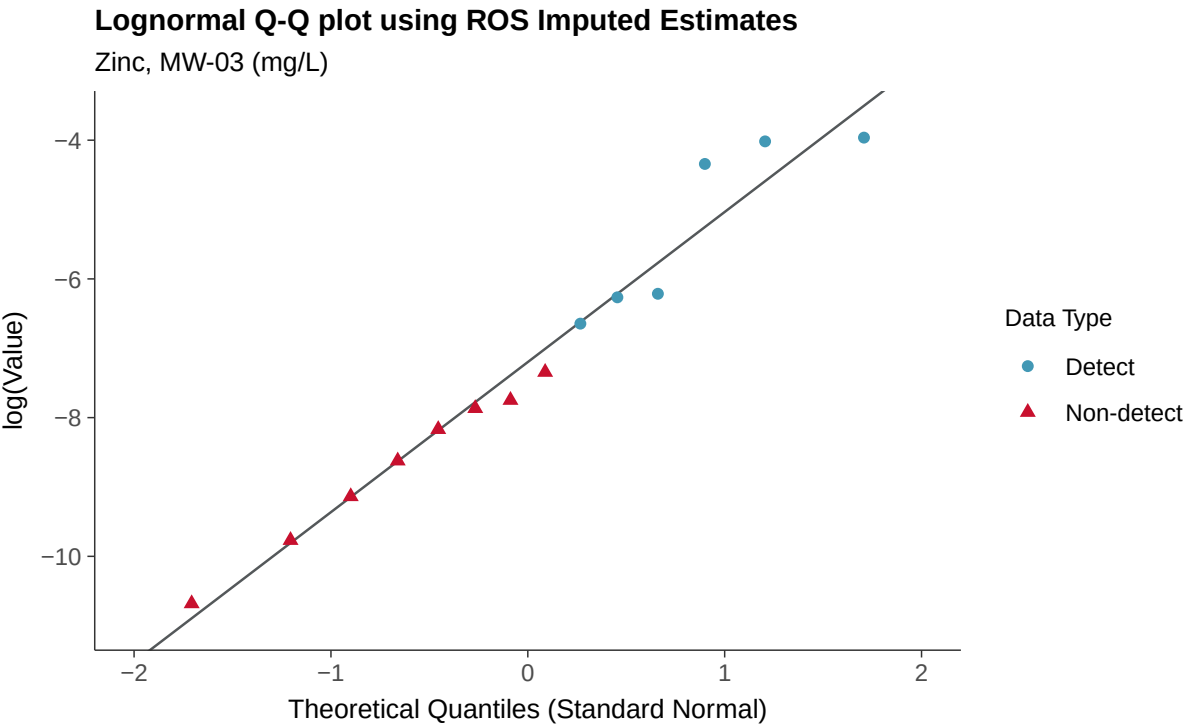
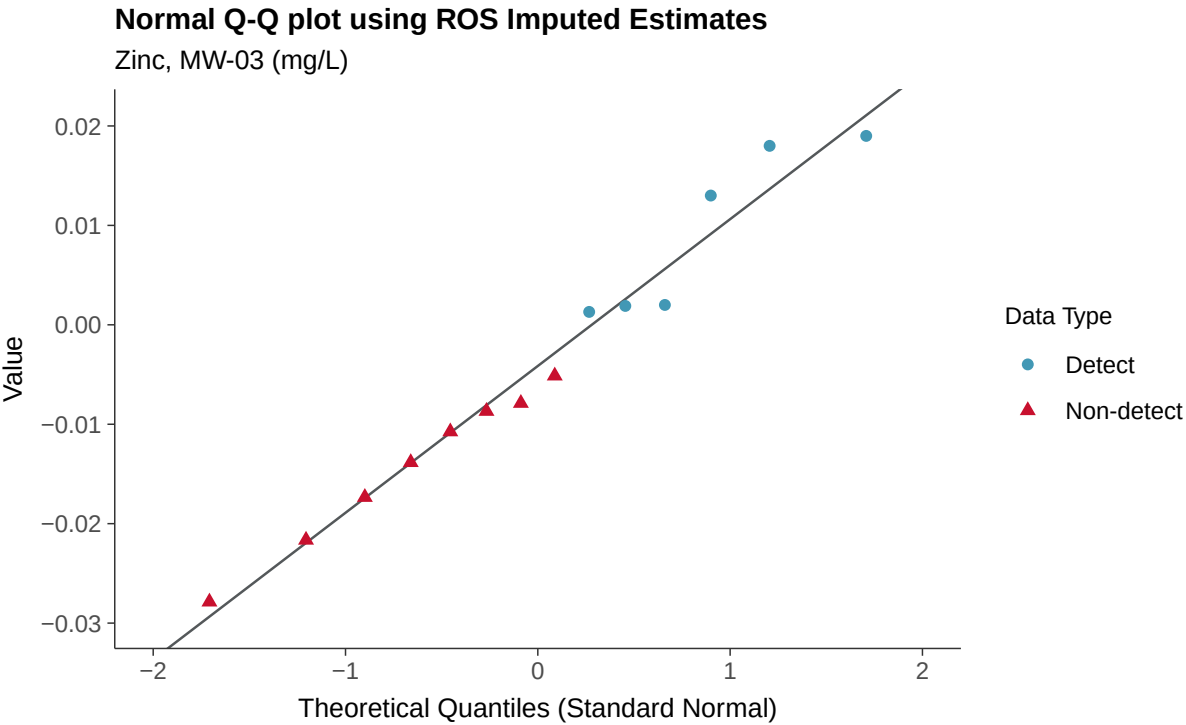


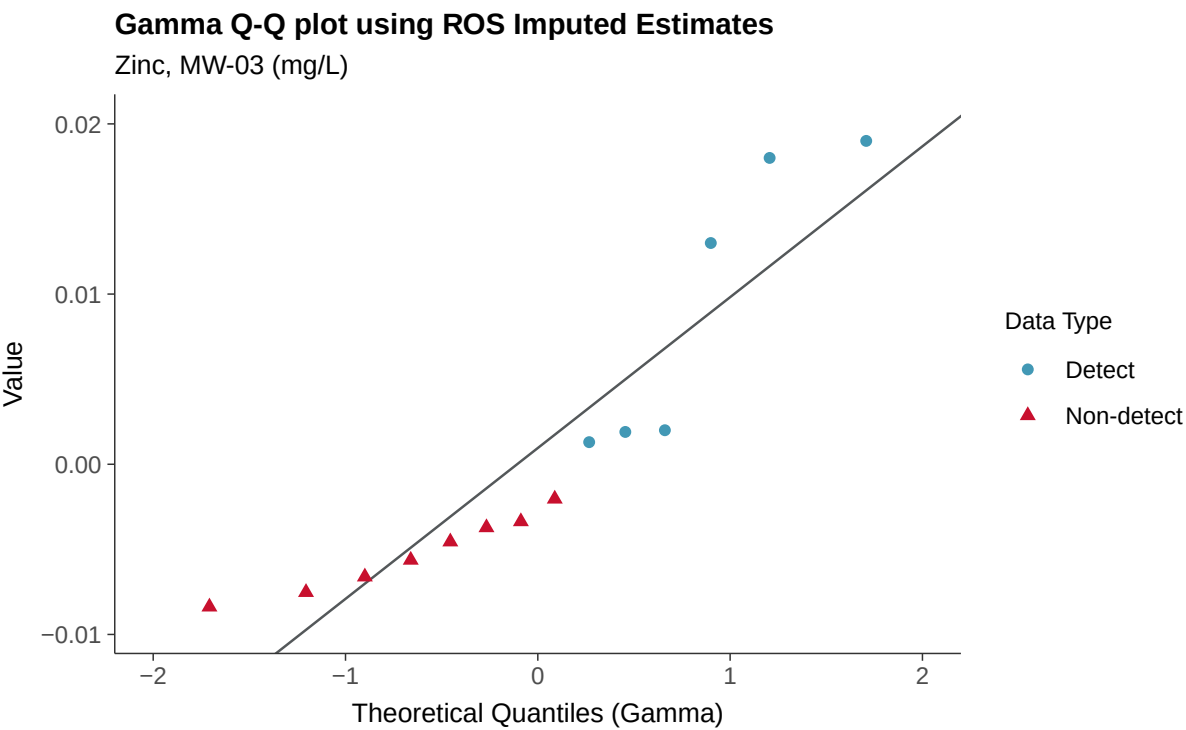
Part 115: Zinc, MW-03

ID: 13_2_5_129





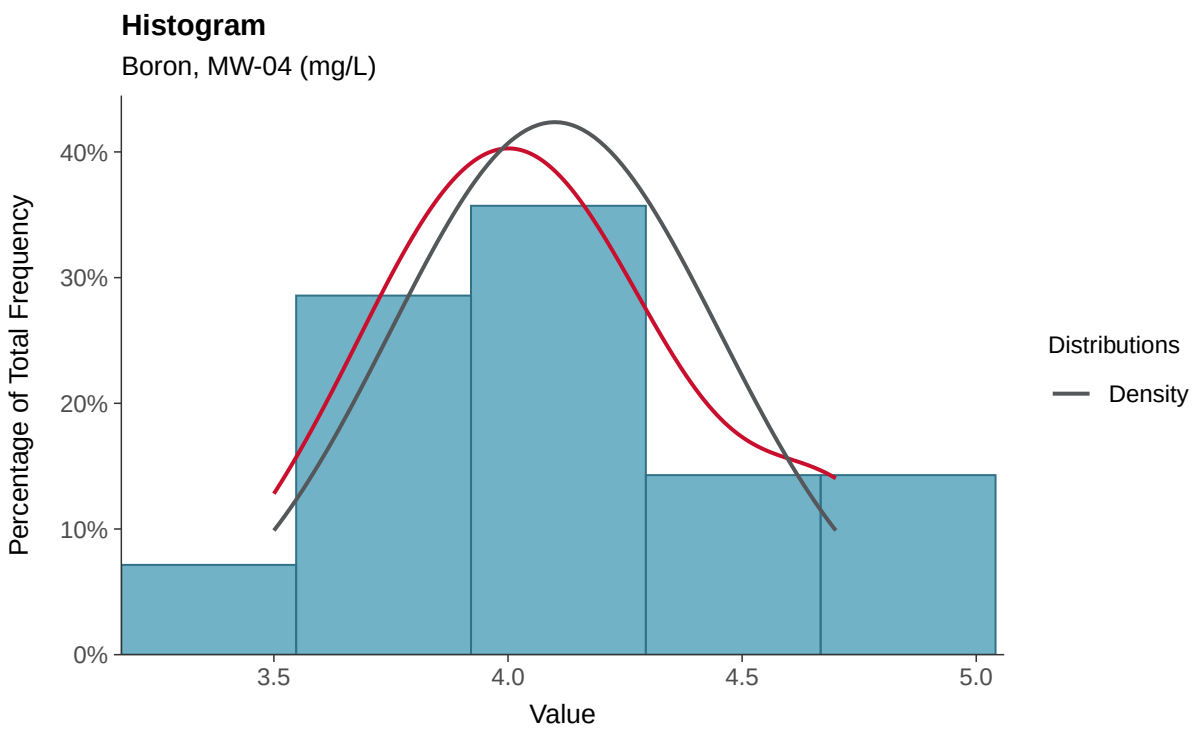
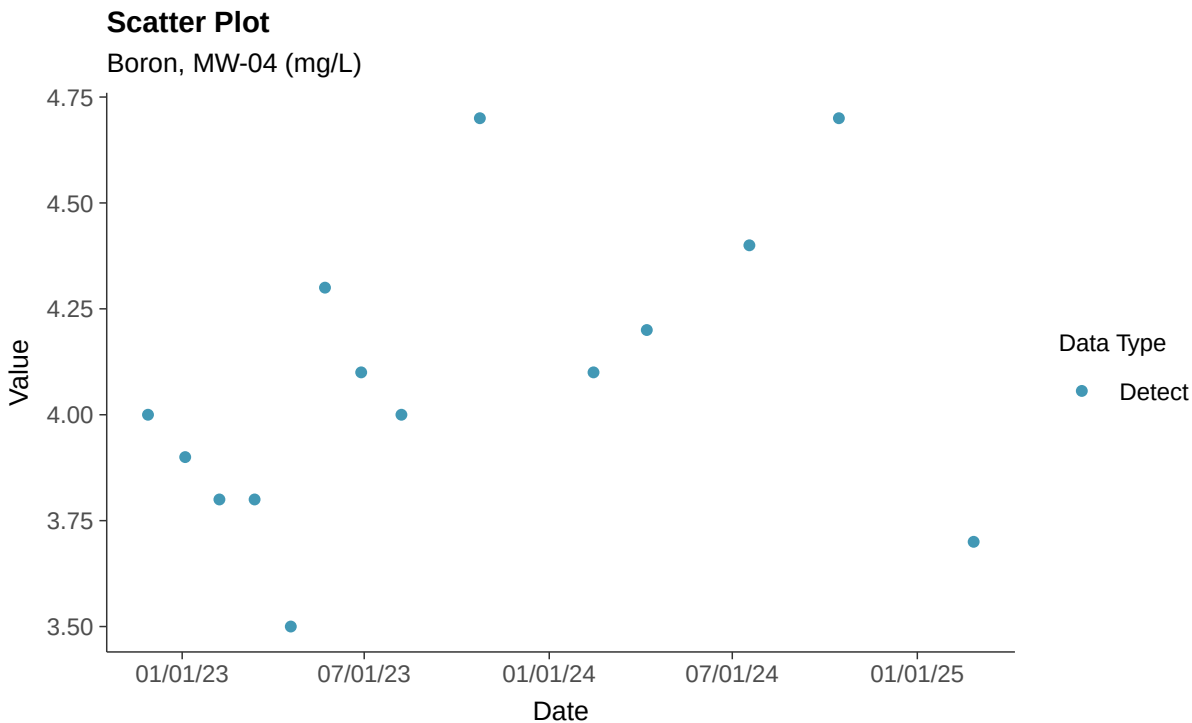


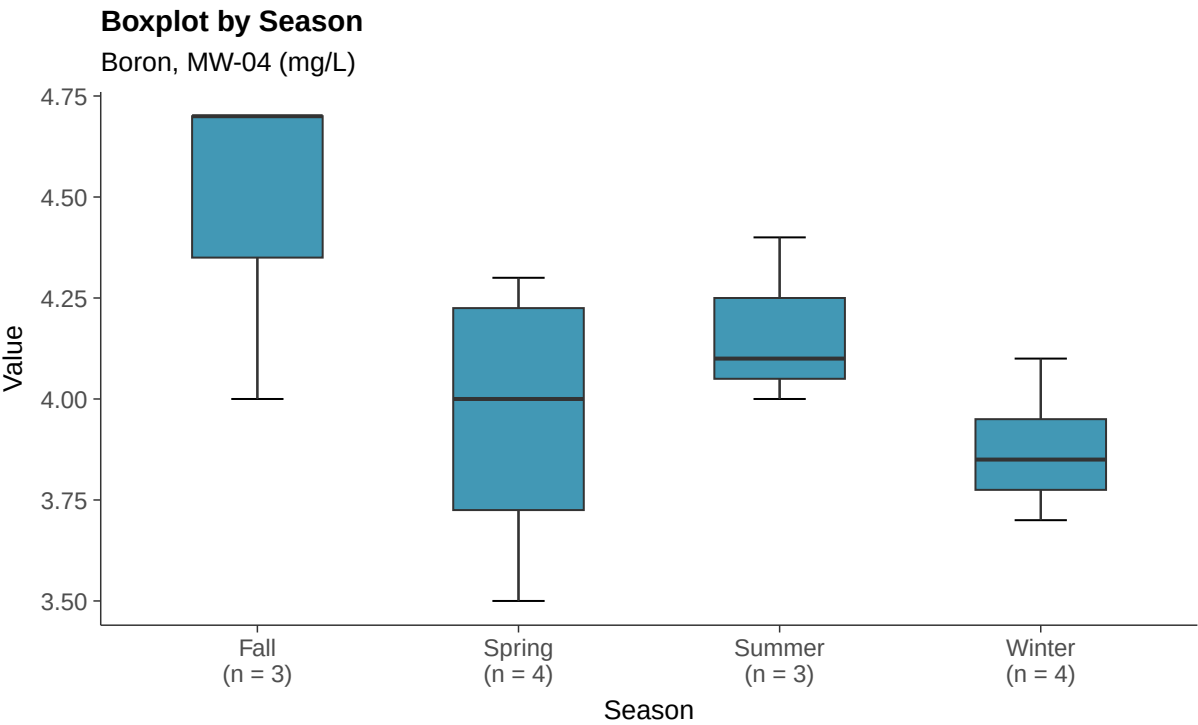
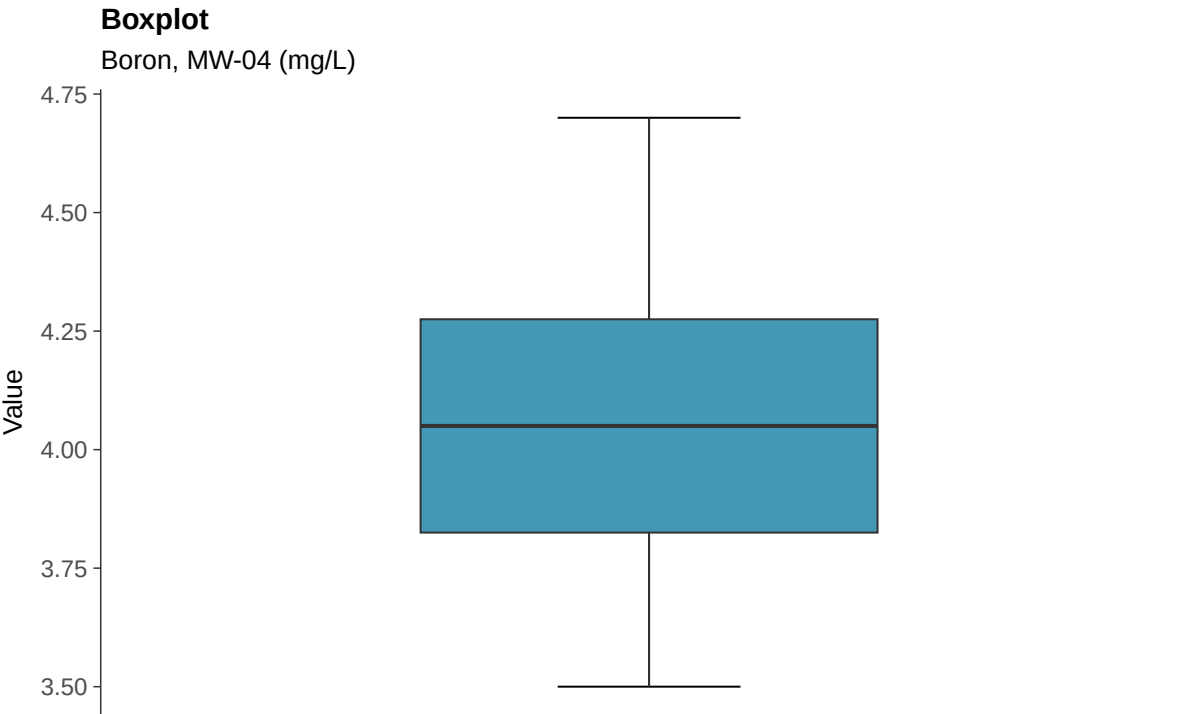


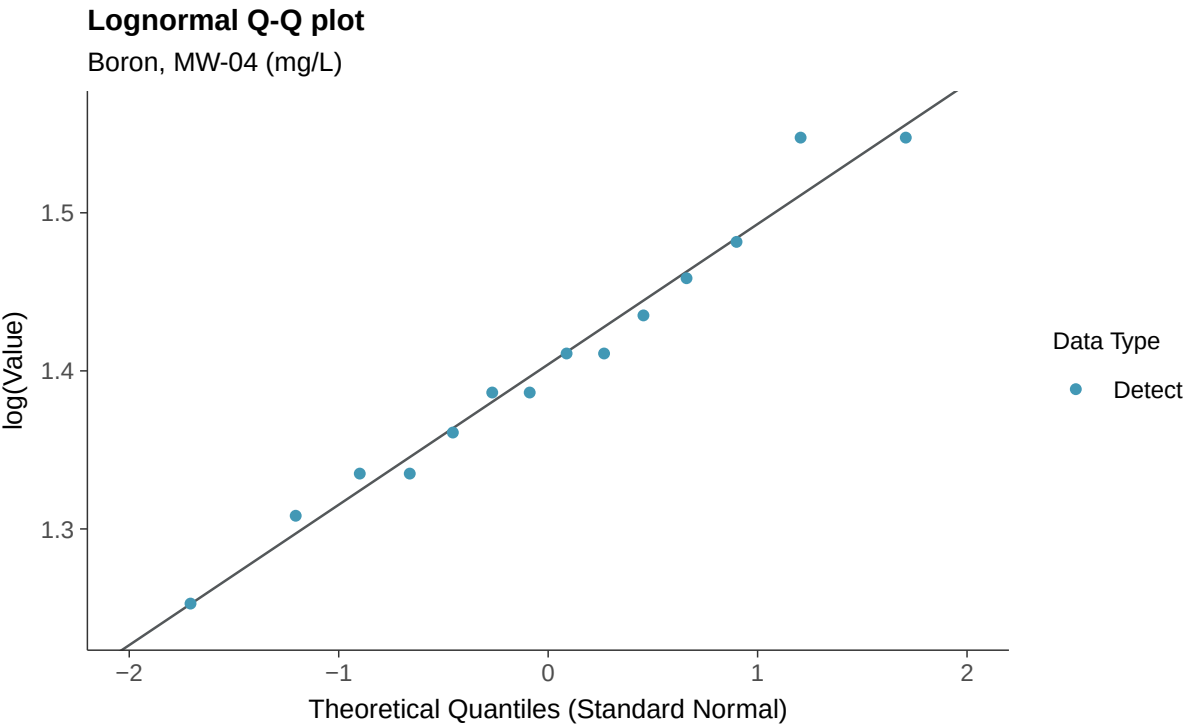
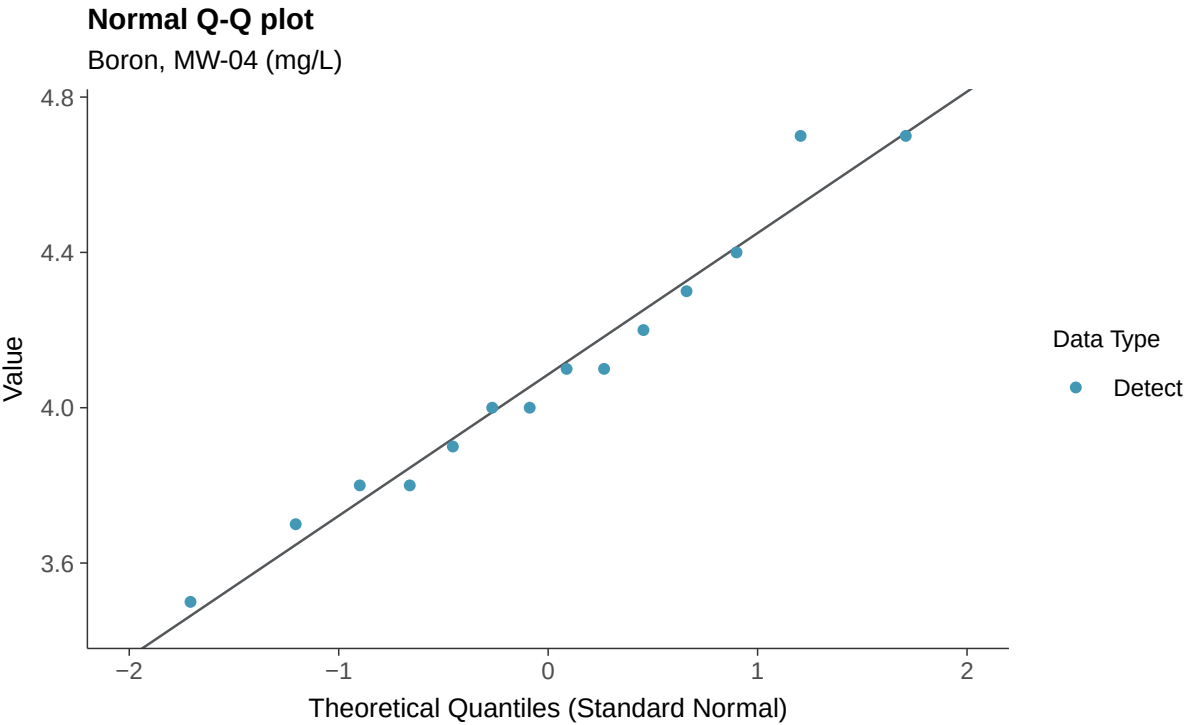


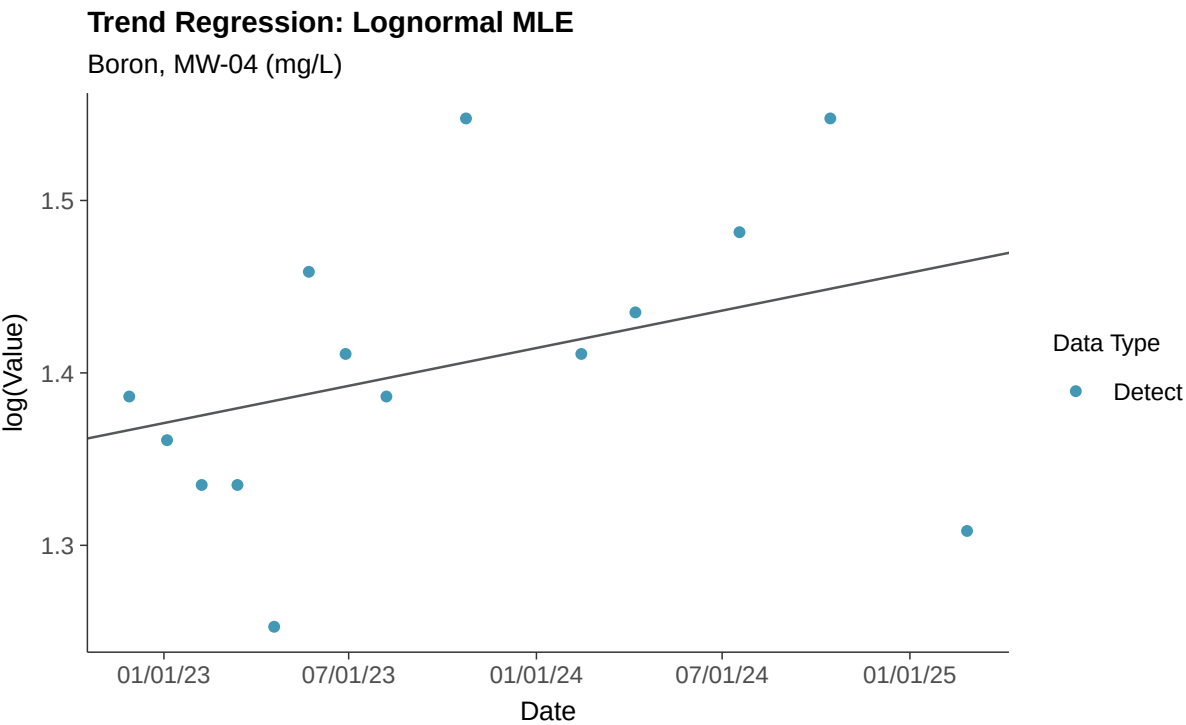
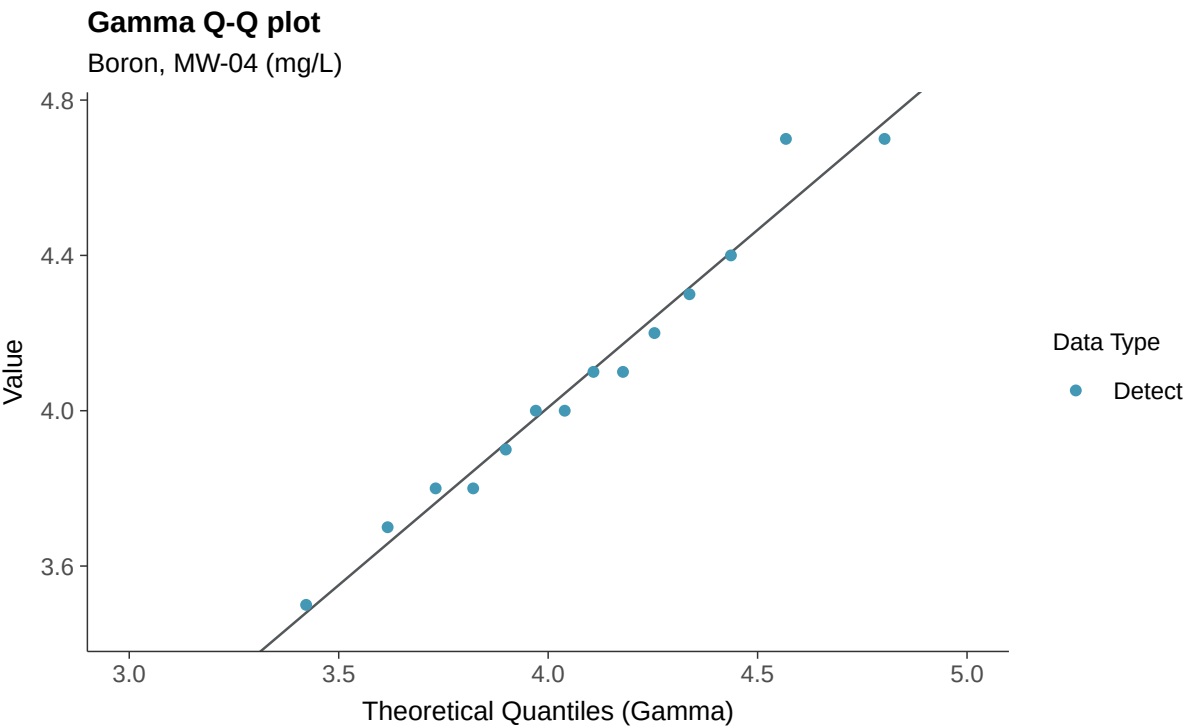
Appendix III: Boron, MW-04

ID: 14_2_3_105





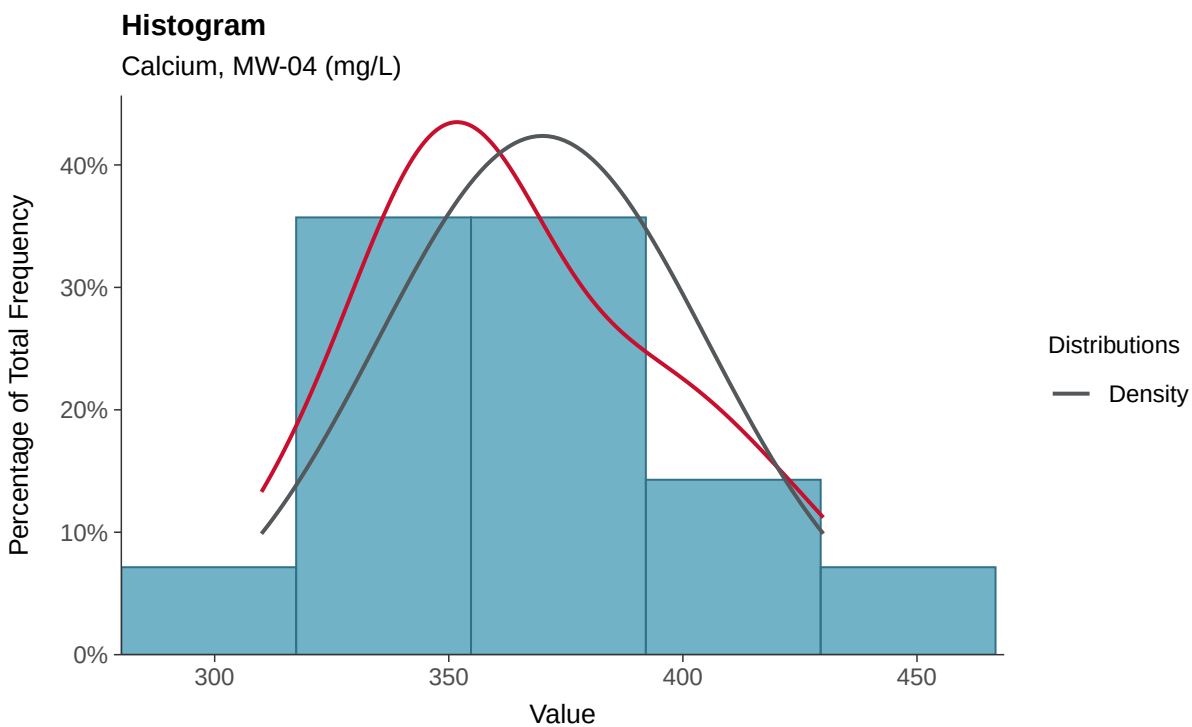
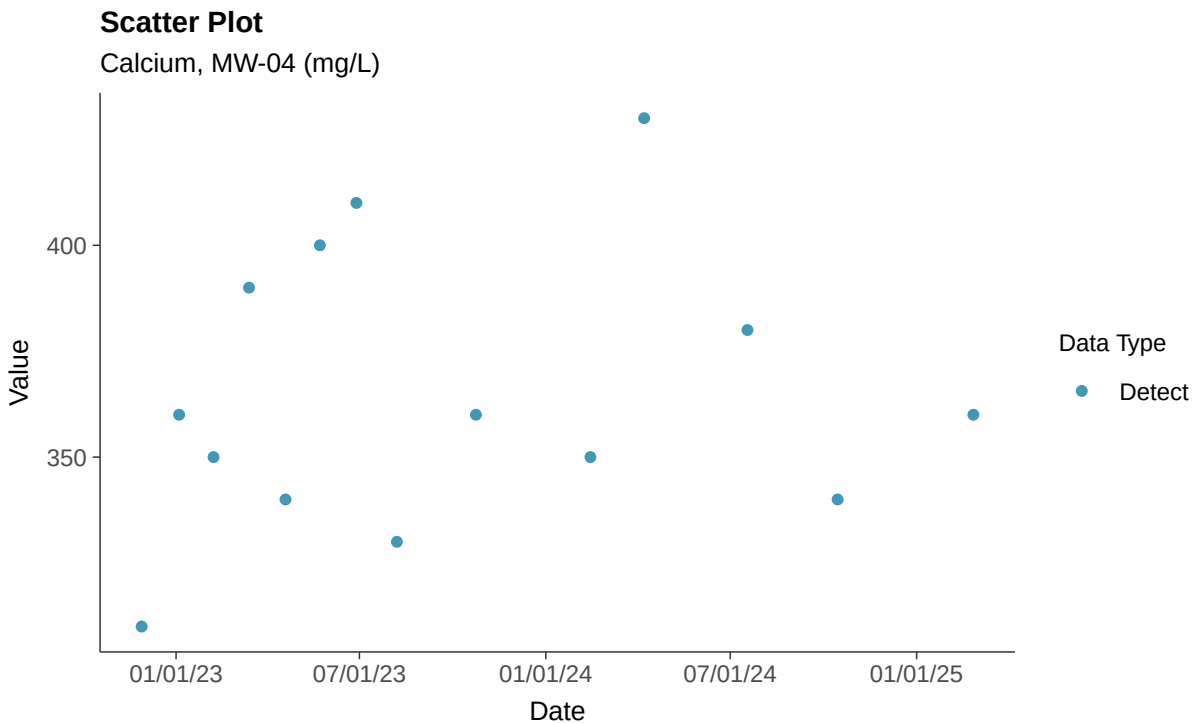


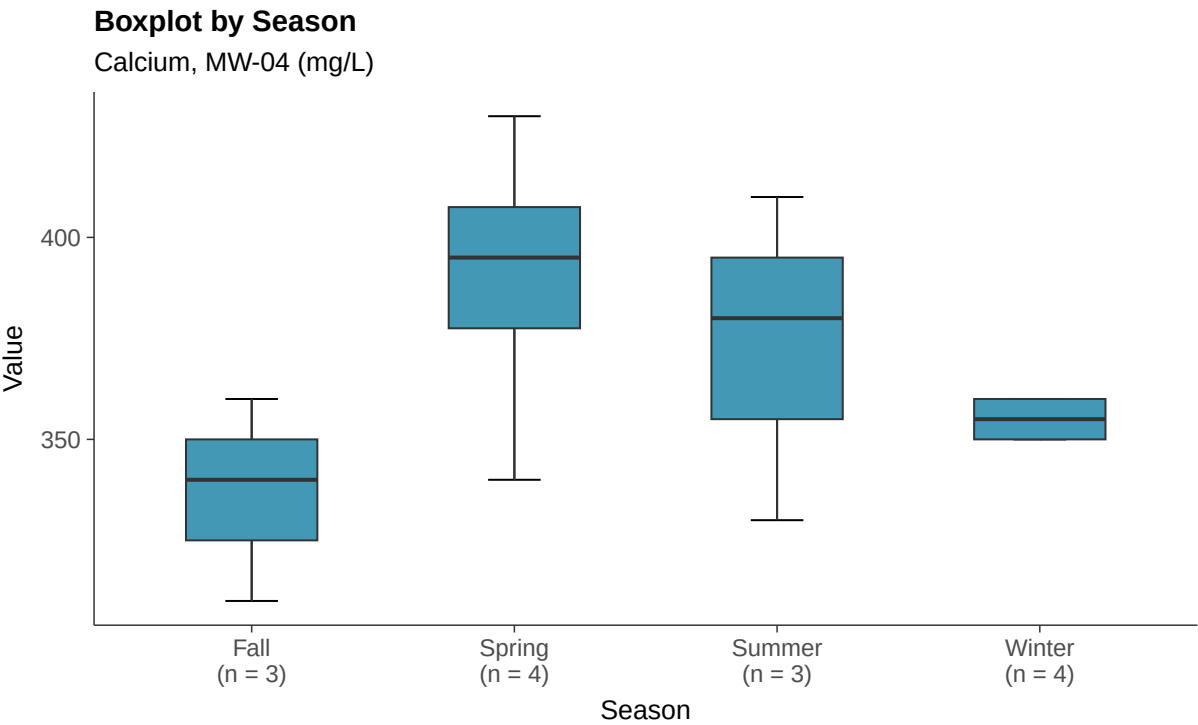
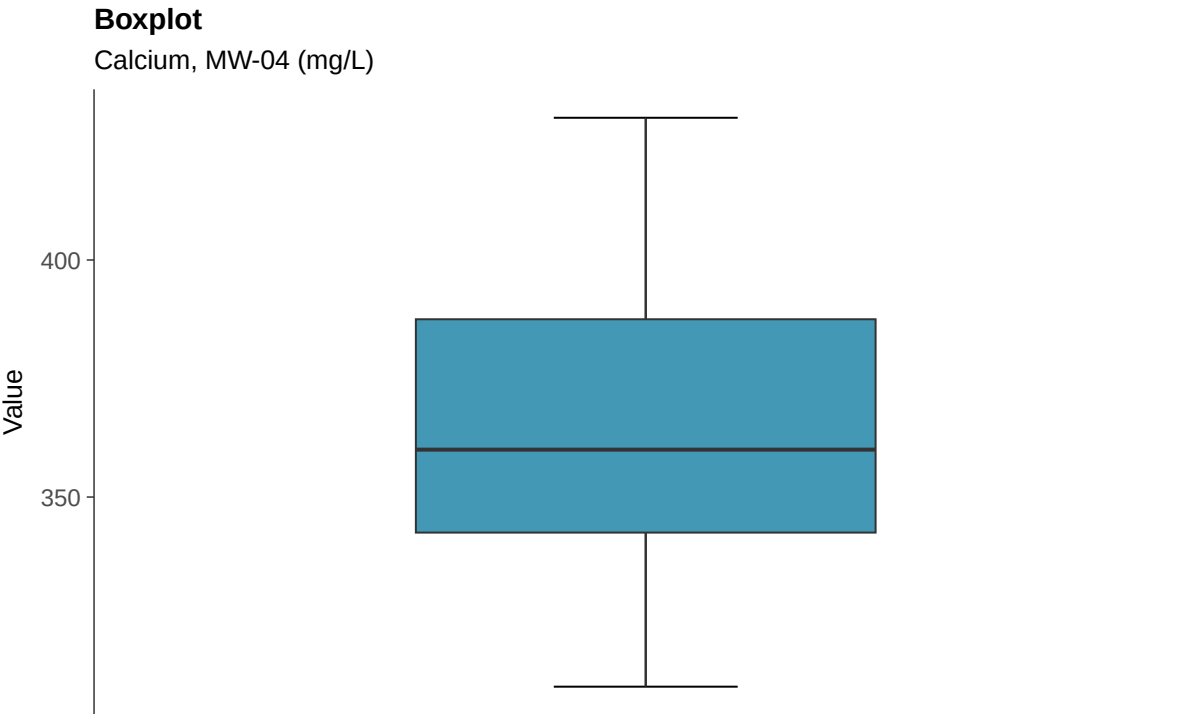


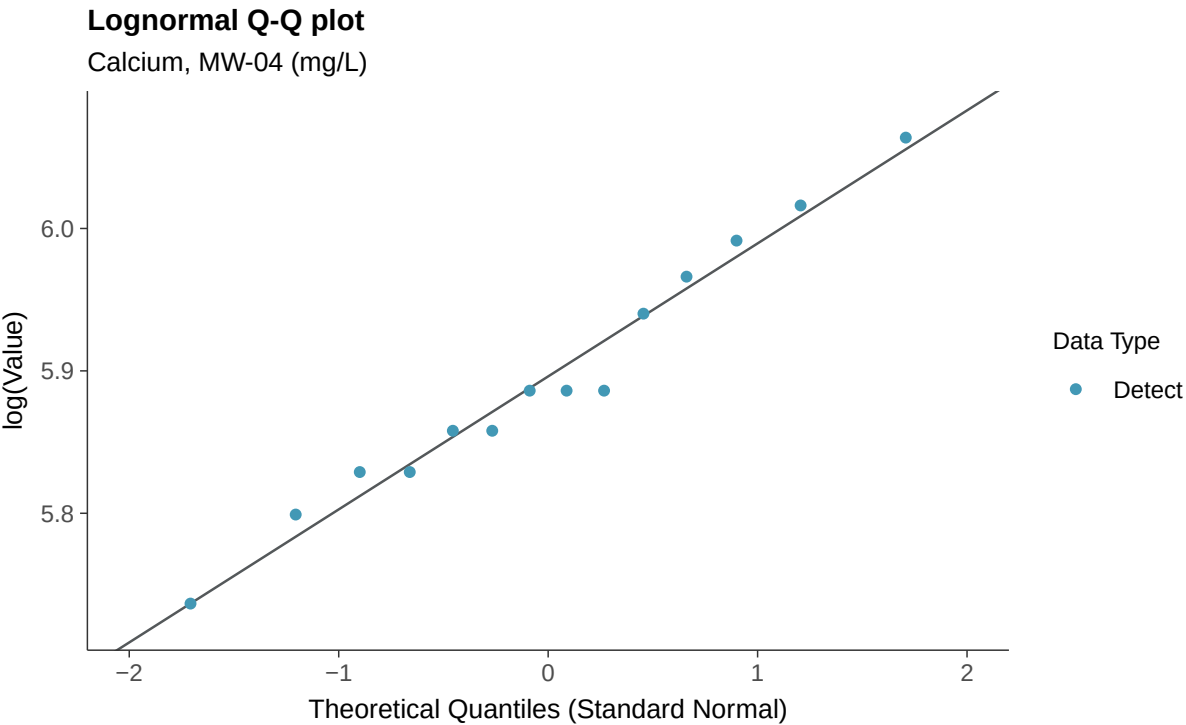
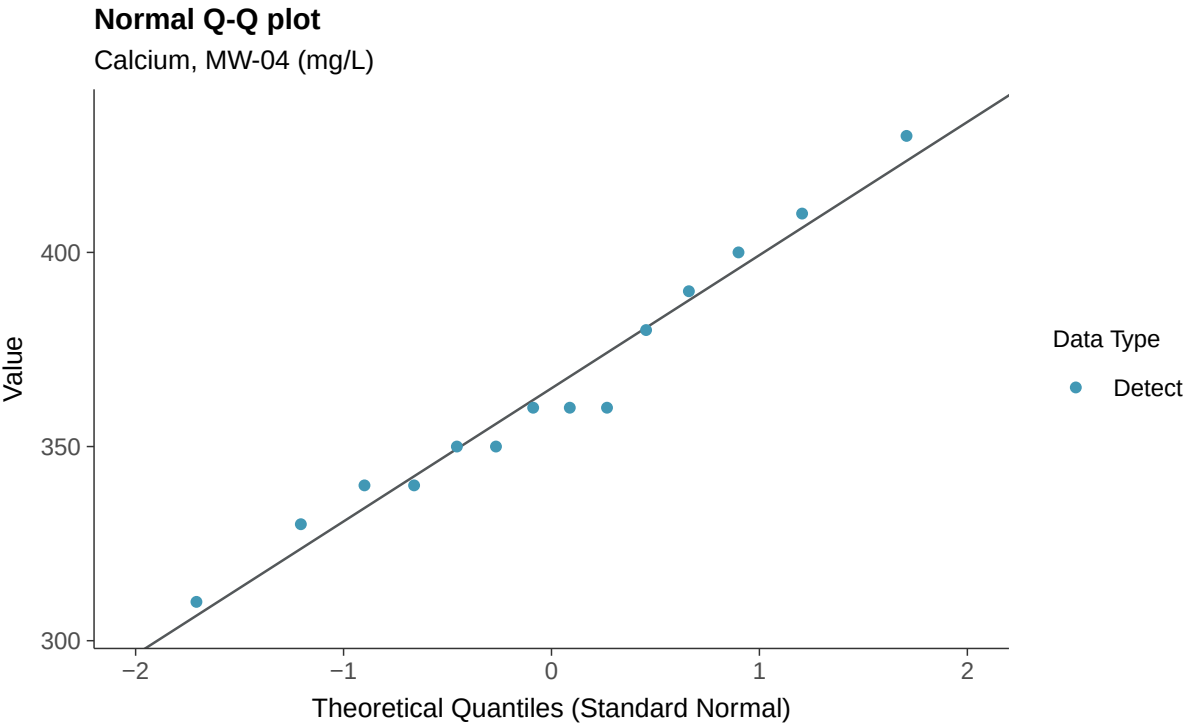


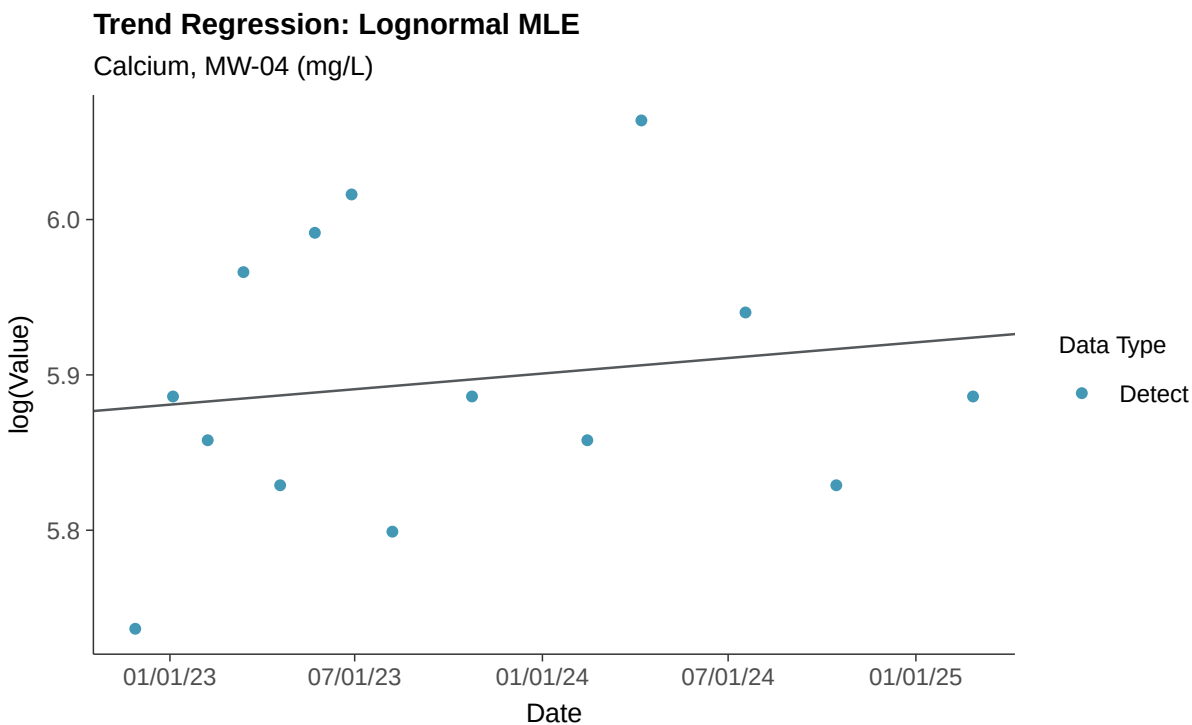
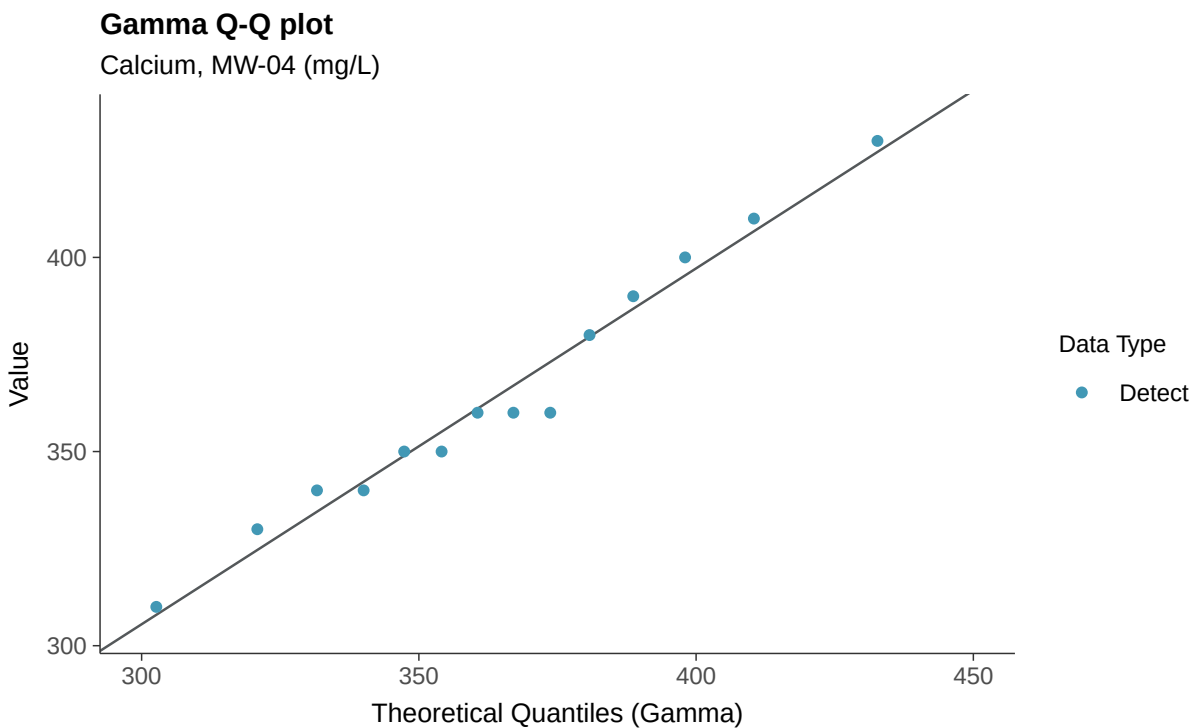
Appendix III: Calcium, MW-04

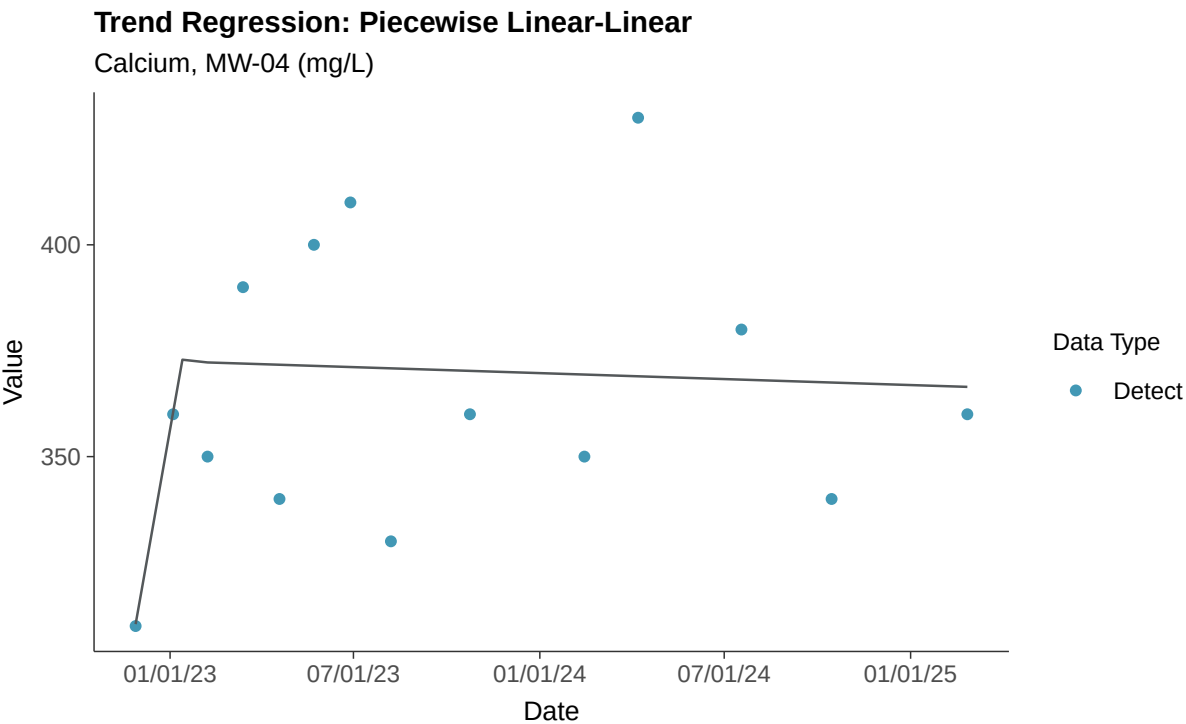
ID: 14_2_3_107







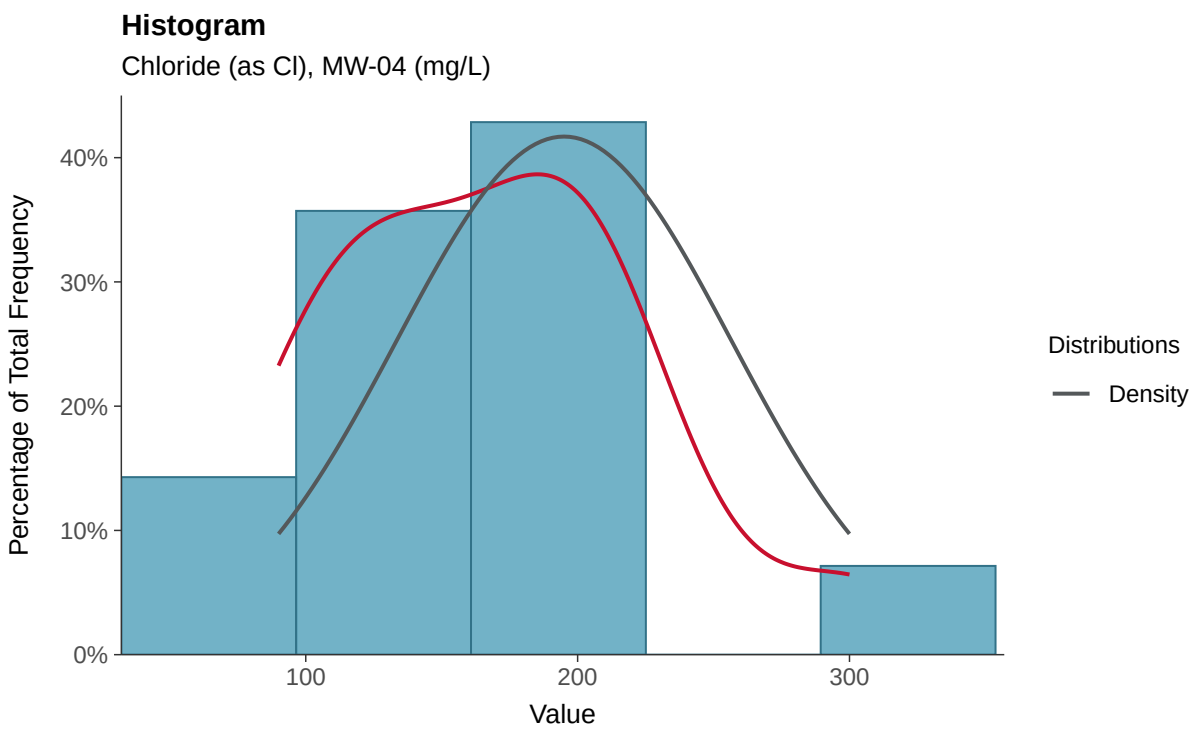
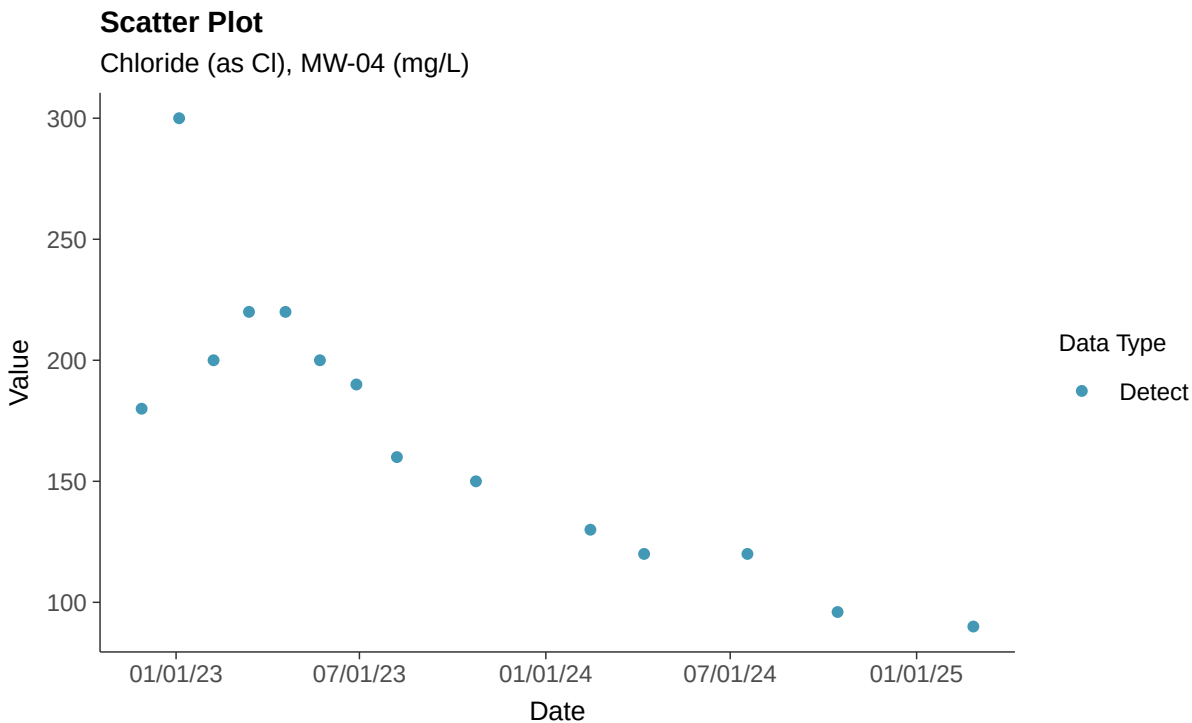


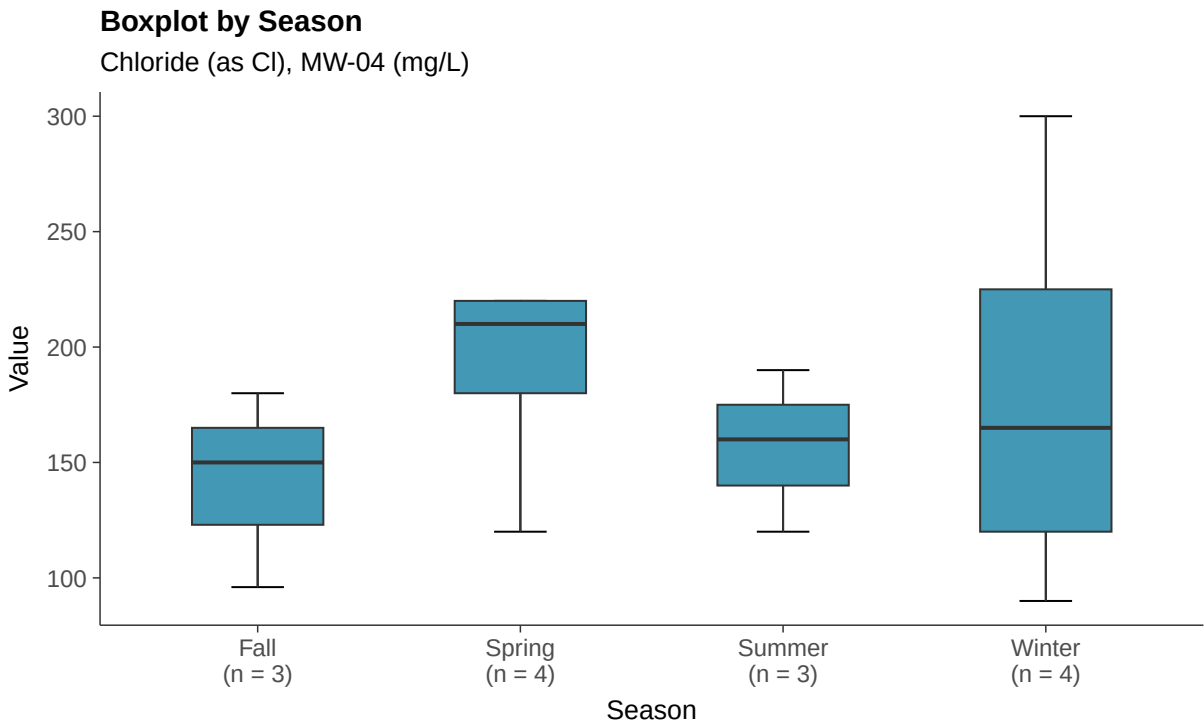
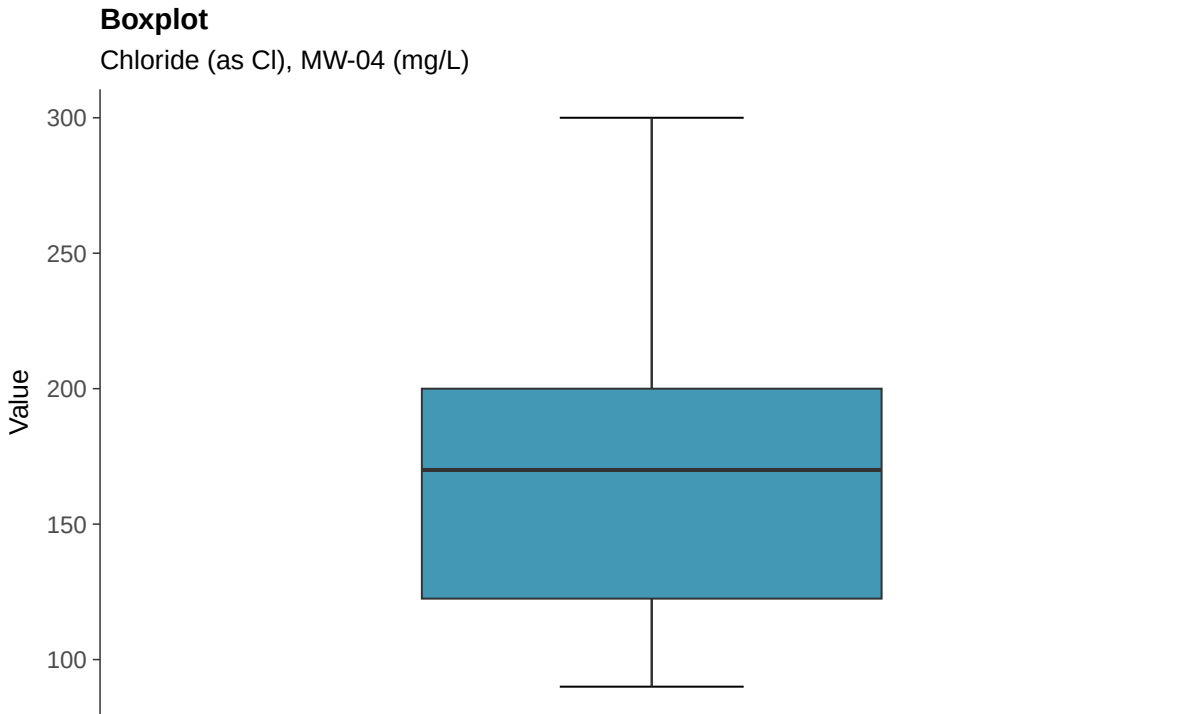


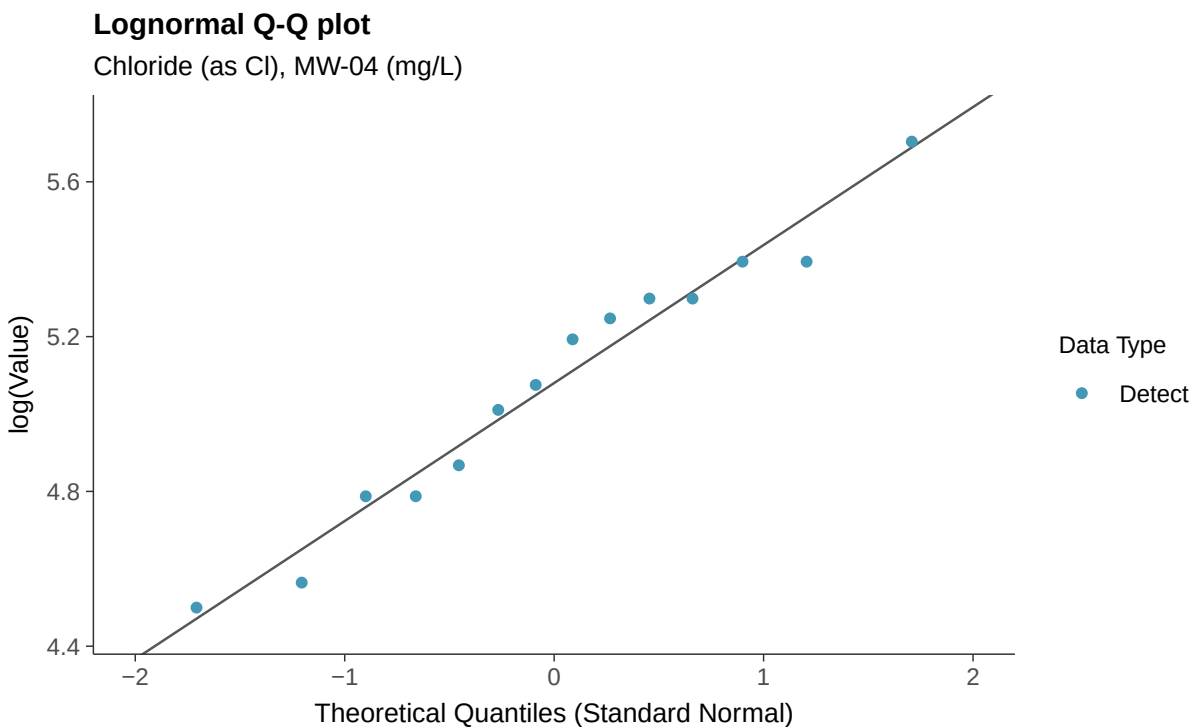
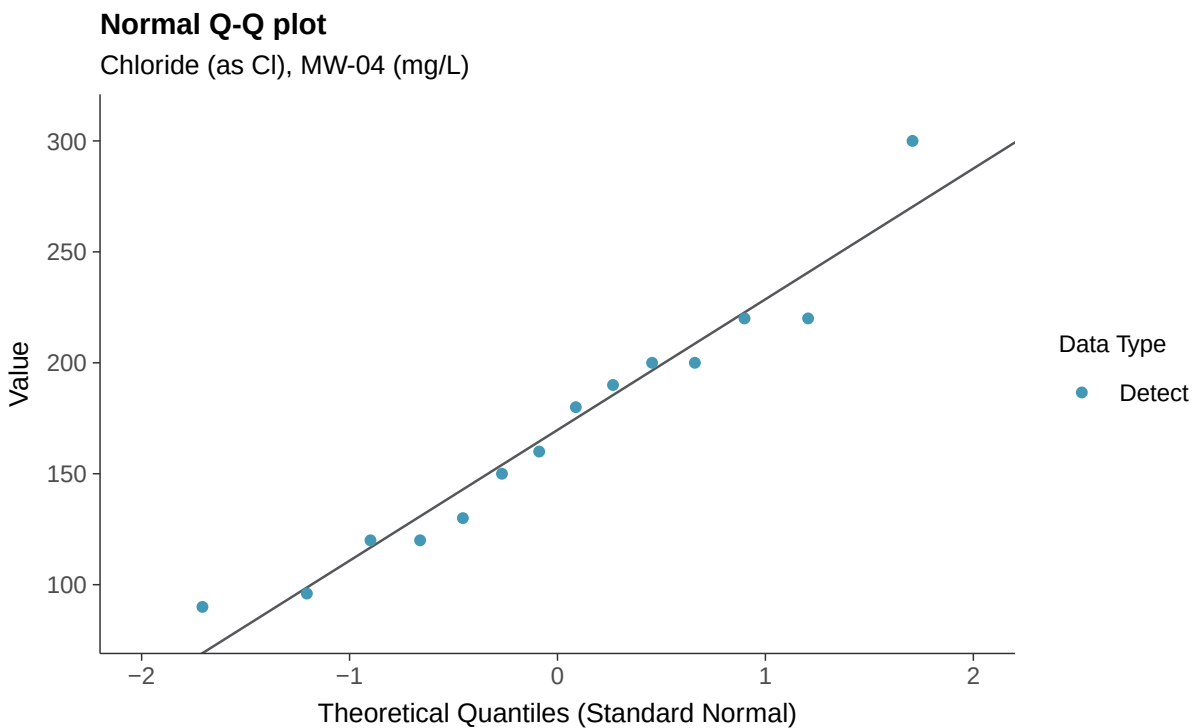


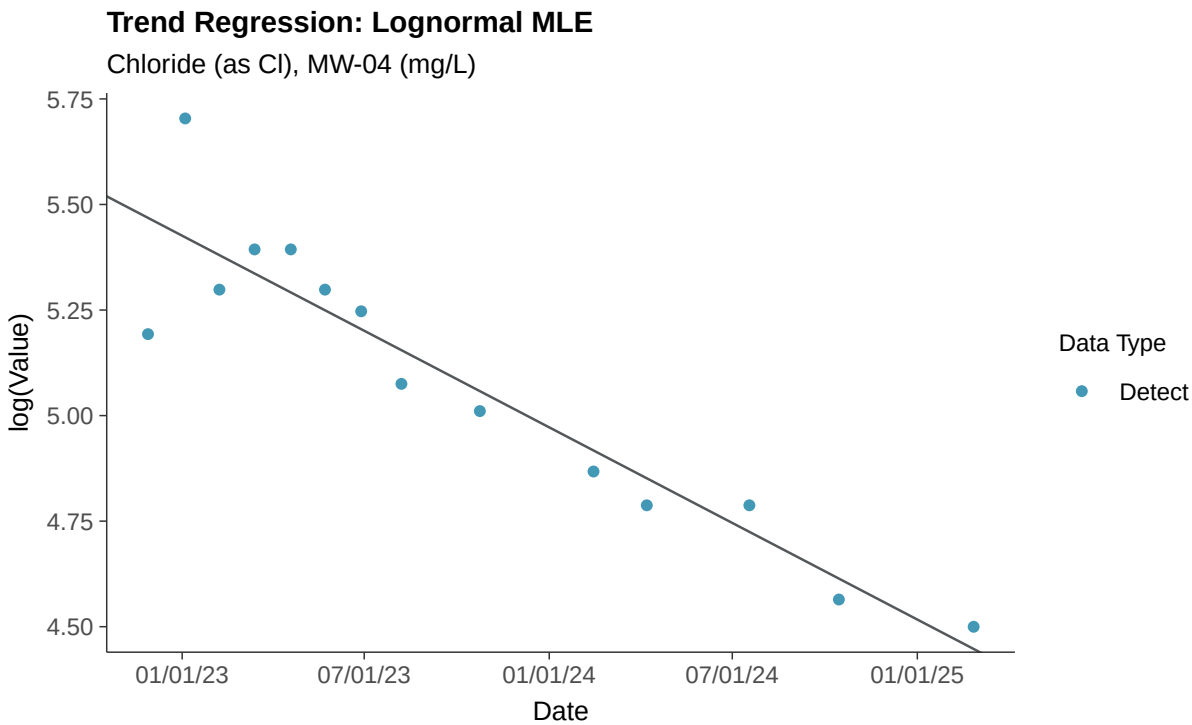
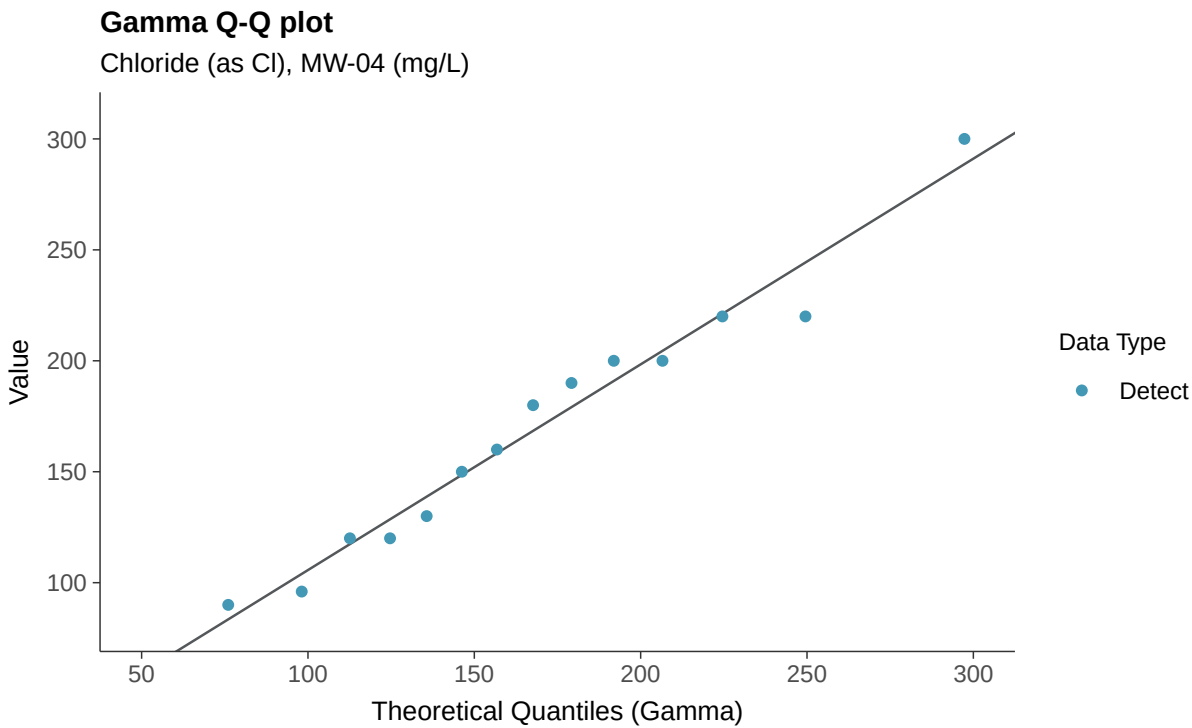
Appendix III: Chloride (as Cl), MW-04

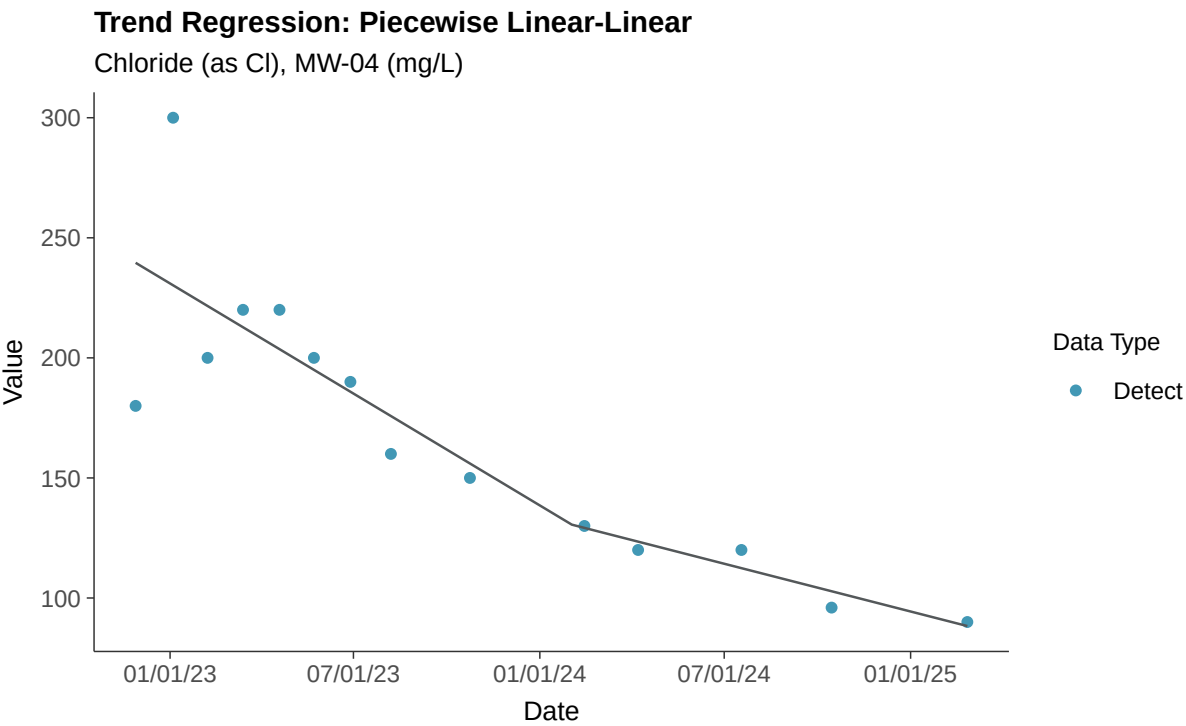
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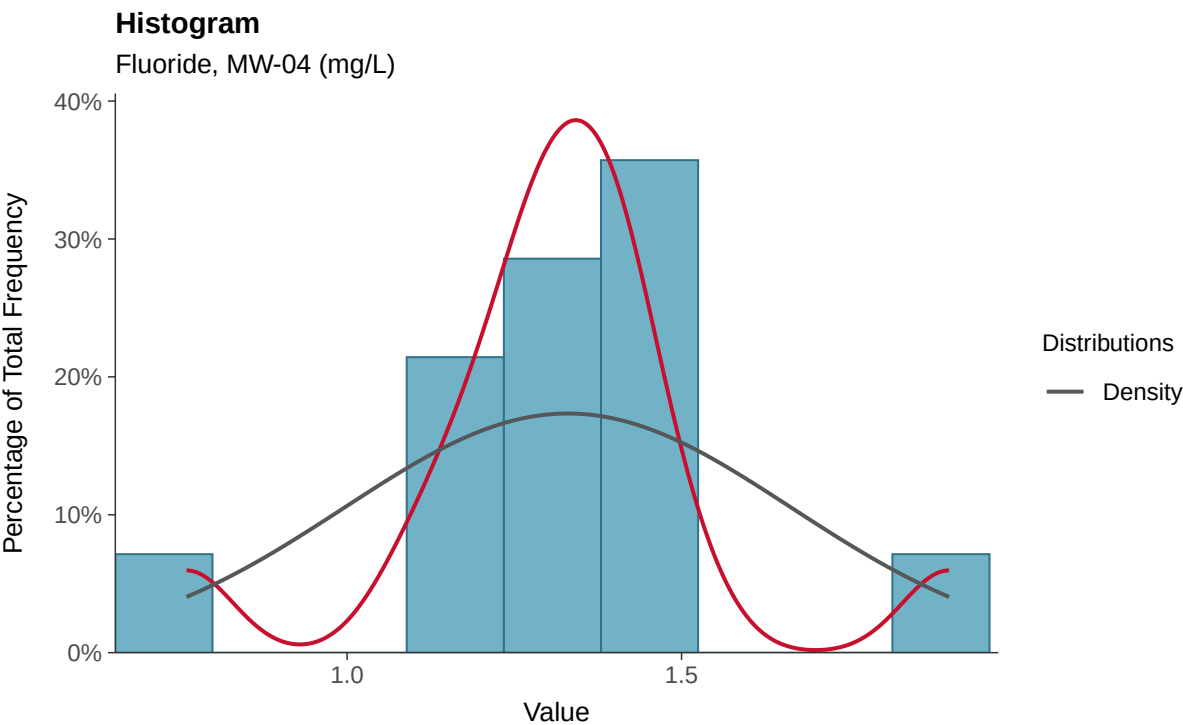
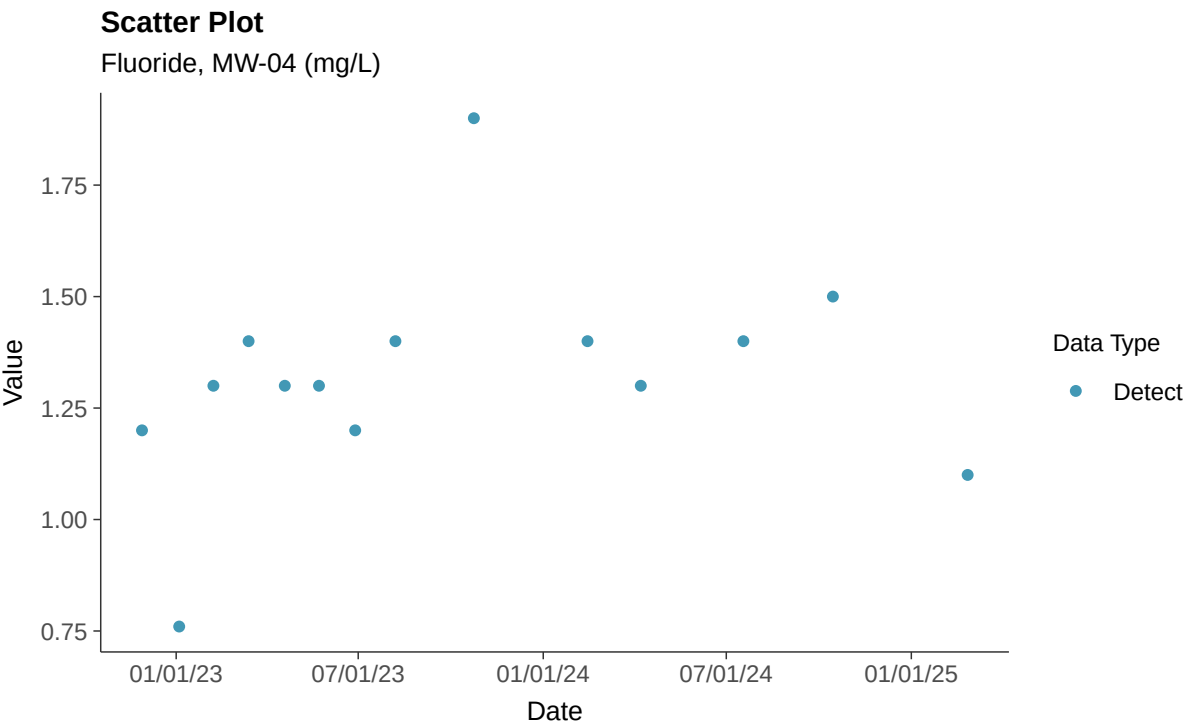


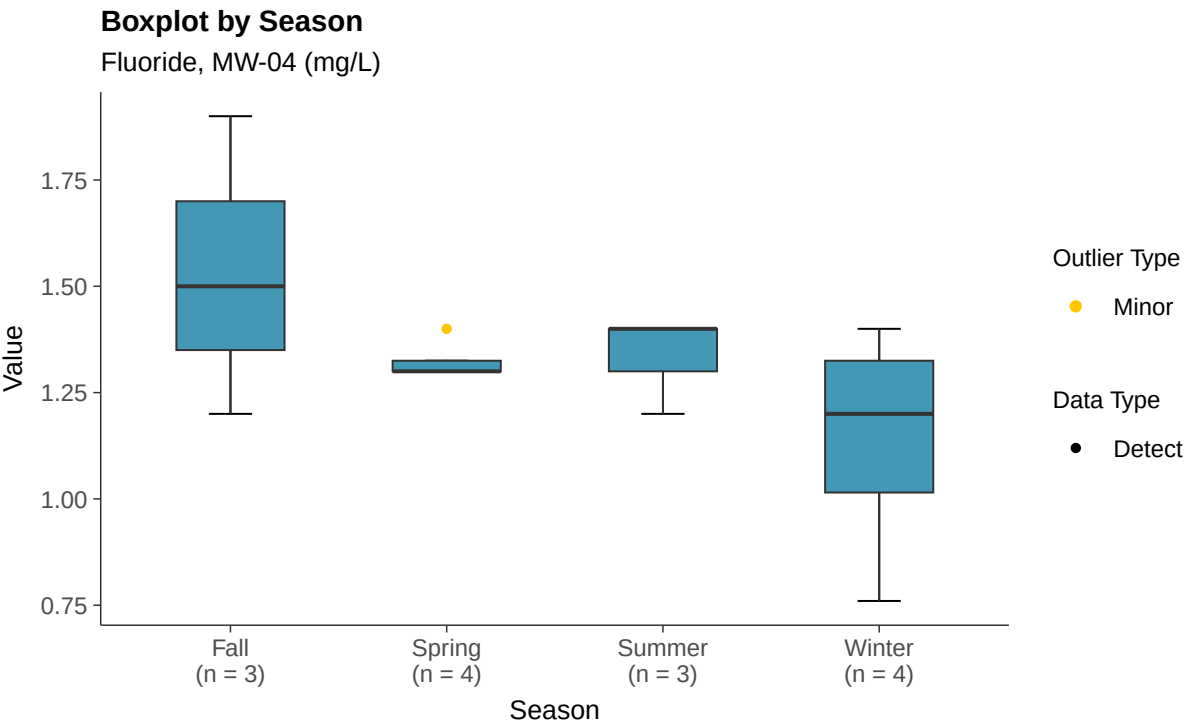
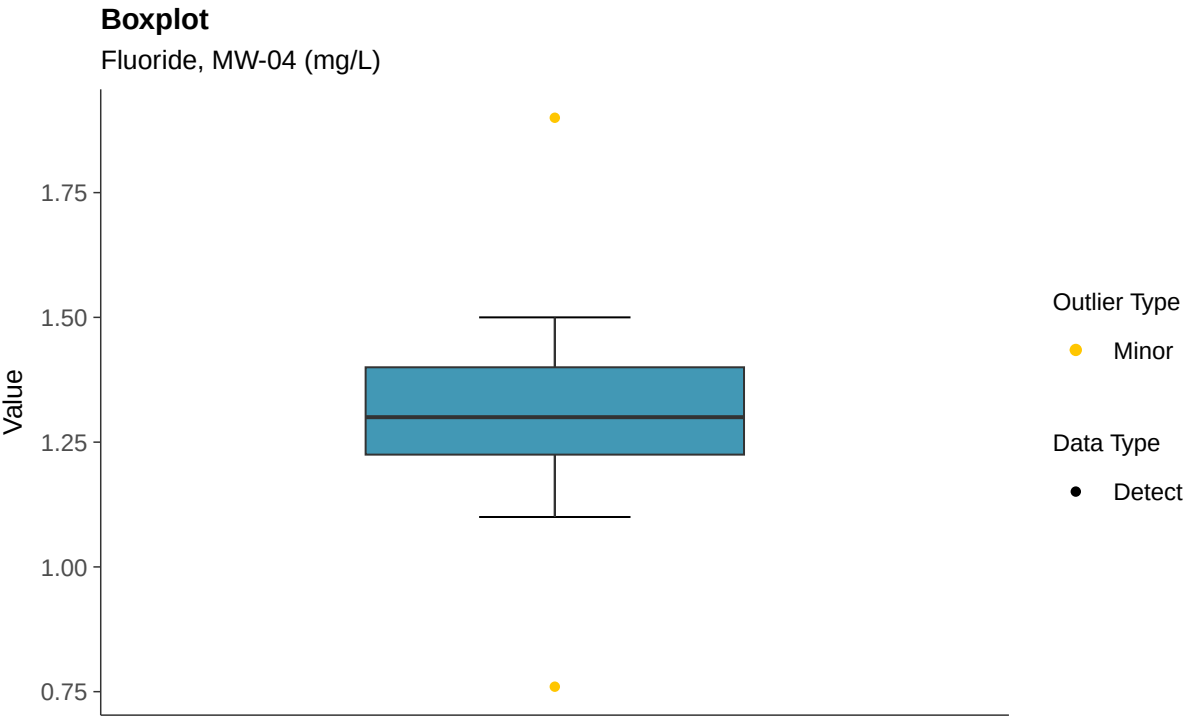




Appendix III: Fluoride, MW-04

ID: 14_2_3_112

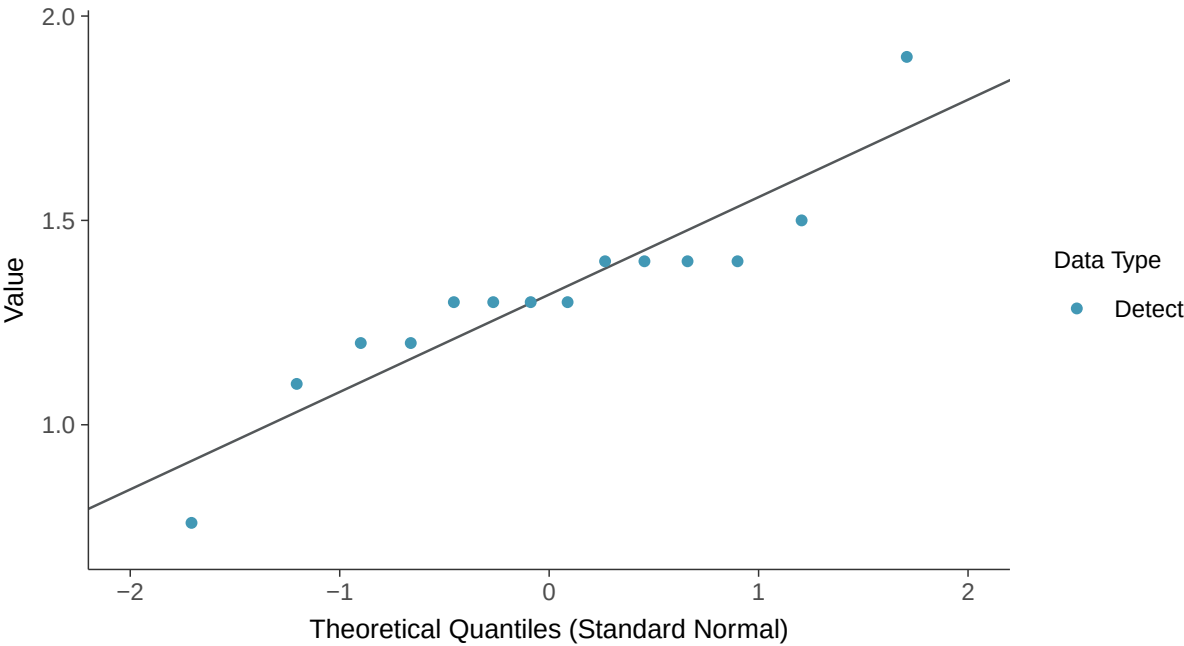






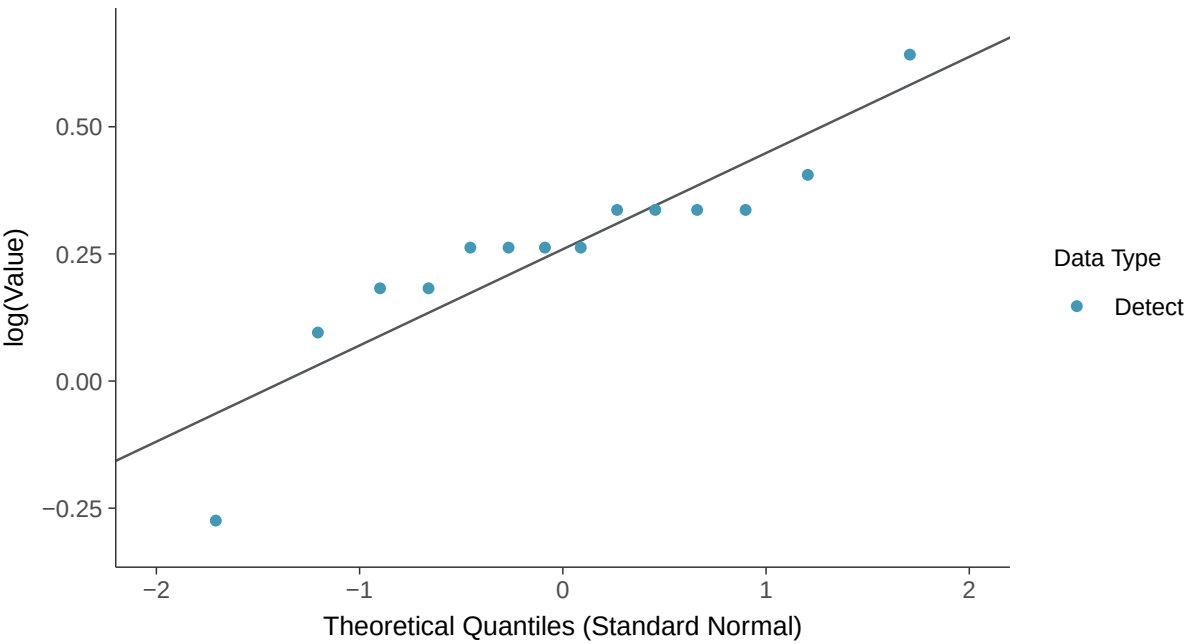
Normal Q-Q plot

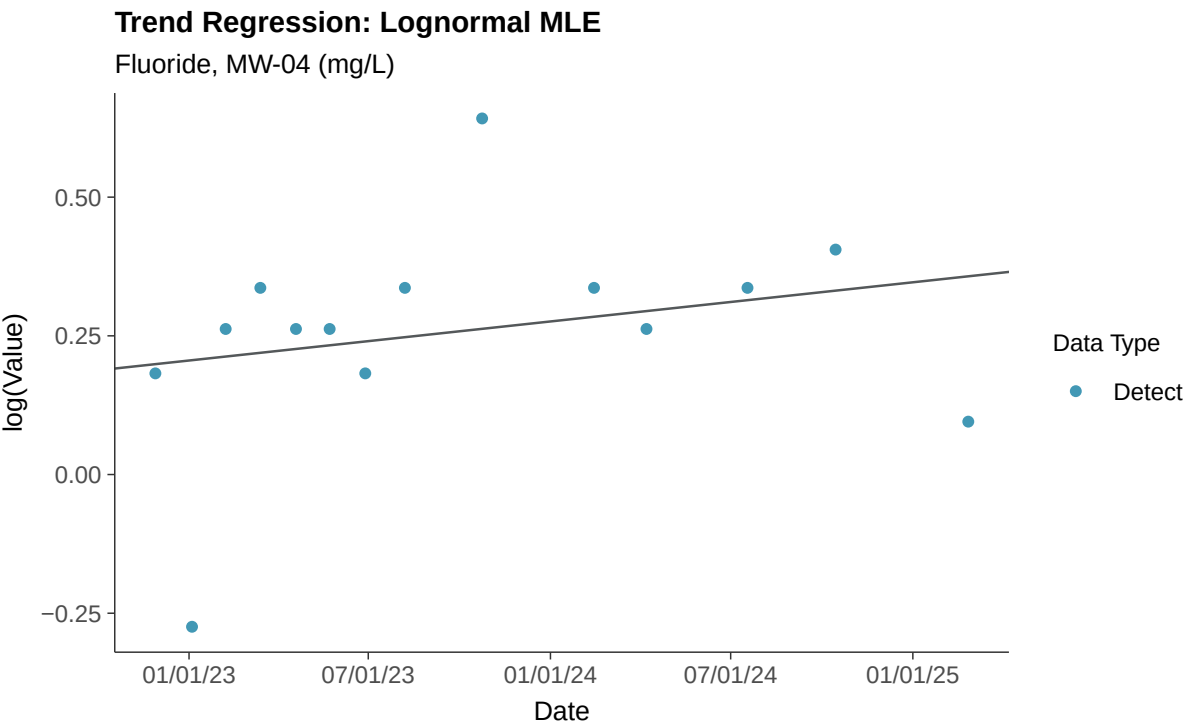
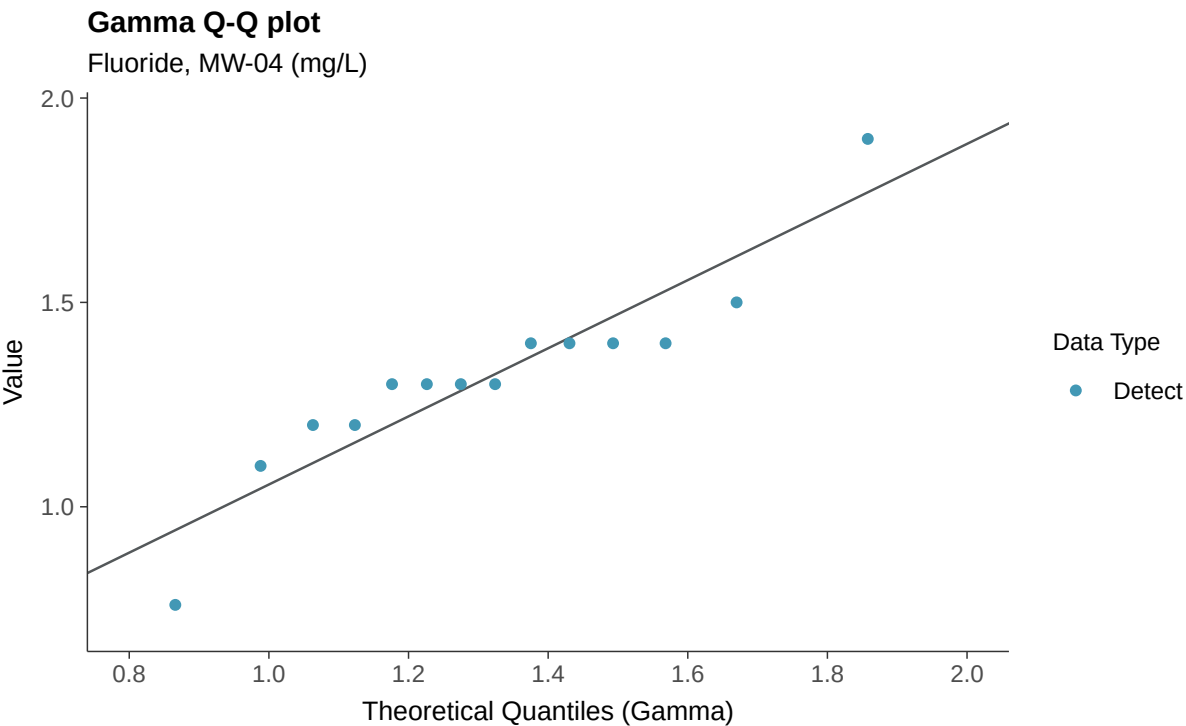
Fluoride, MW-04 (mg/L)

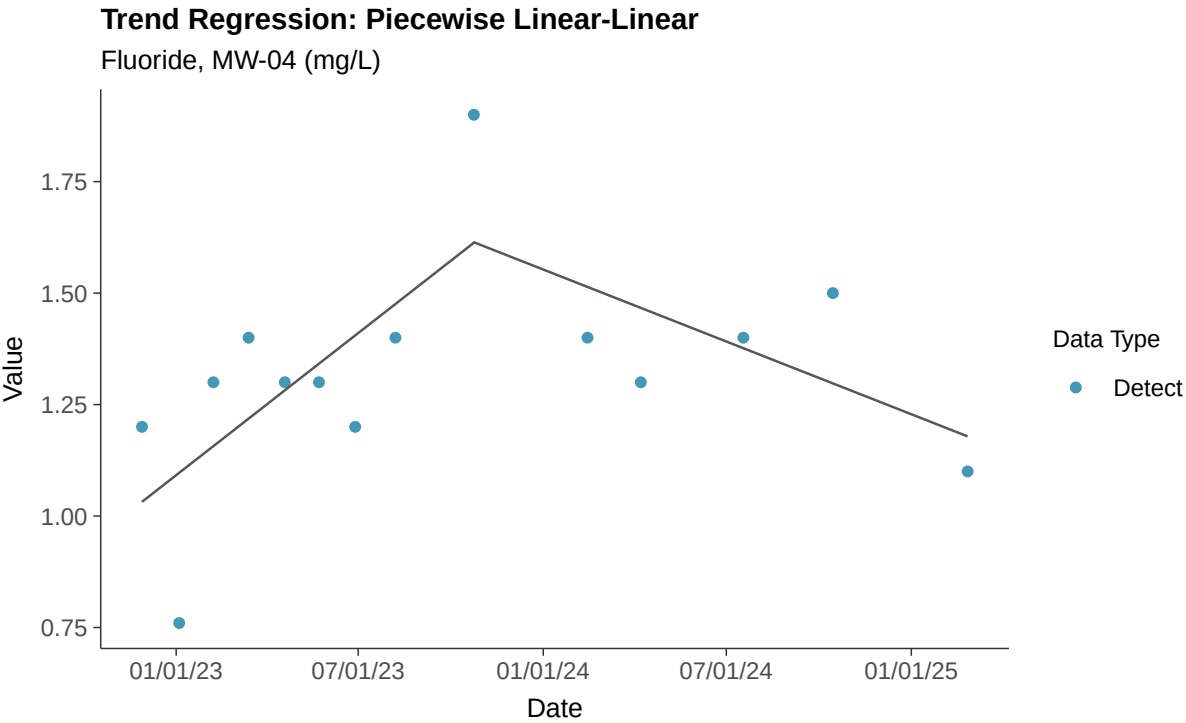


Lognormal Q-Q plot

Fluoride, MW-04 (mg/L)



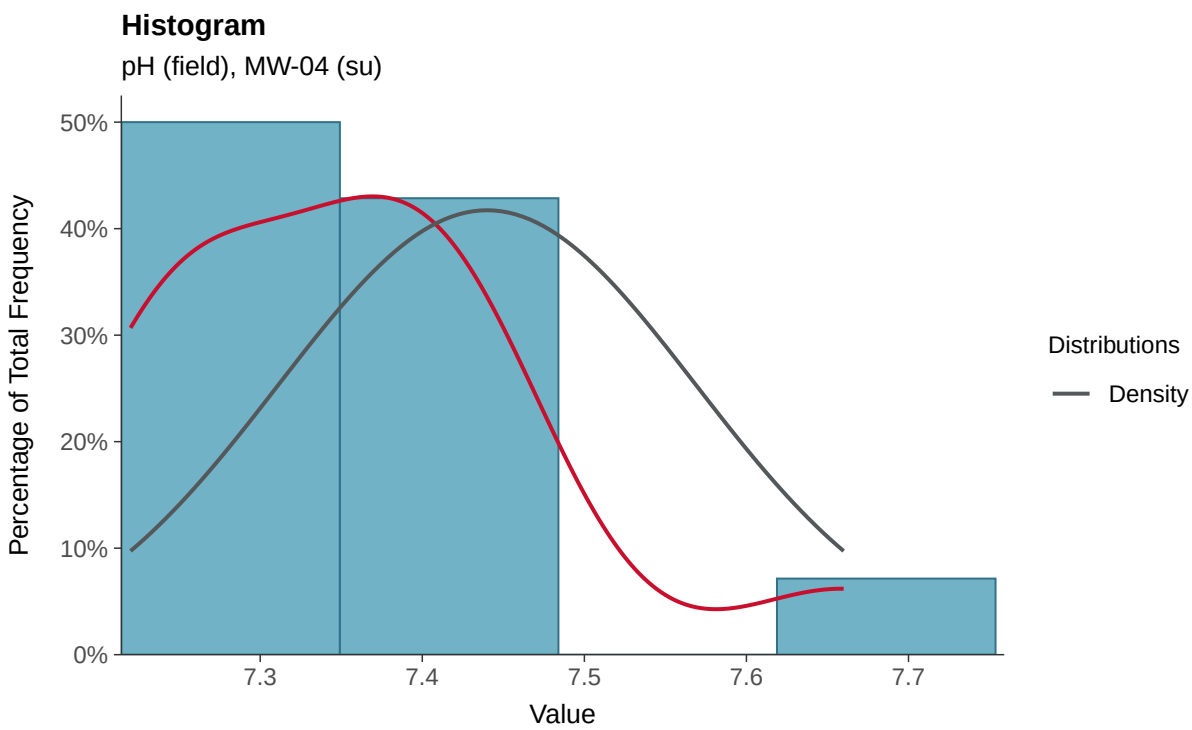
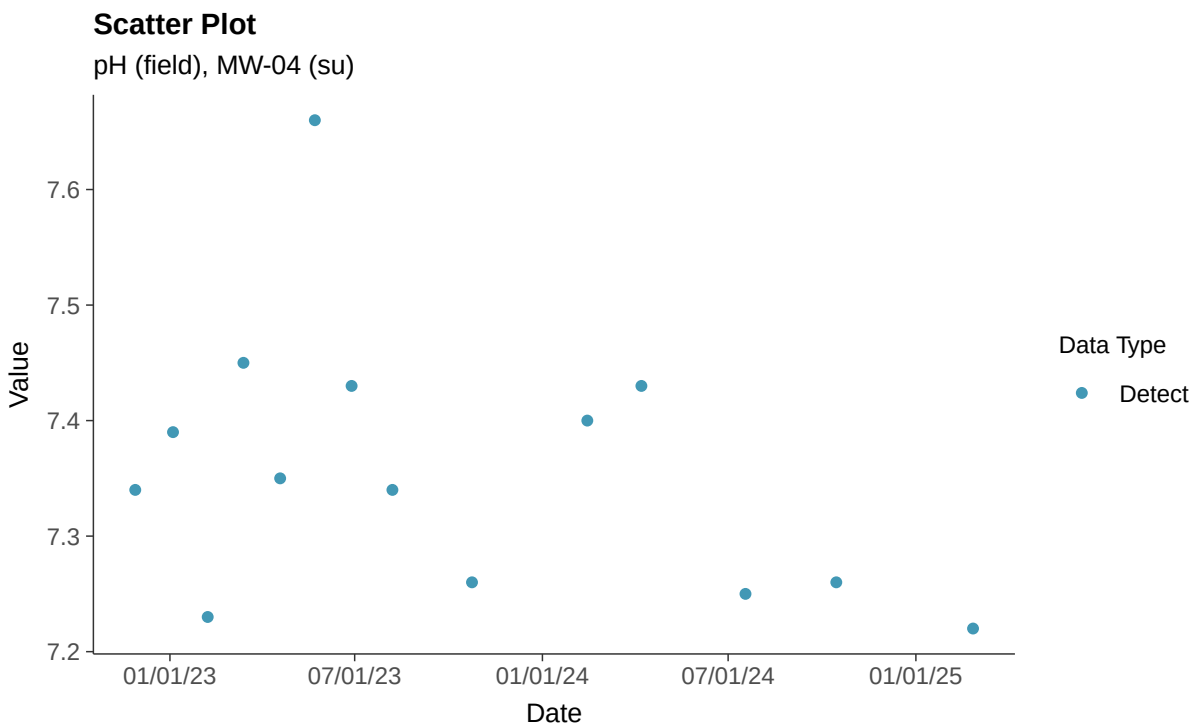


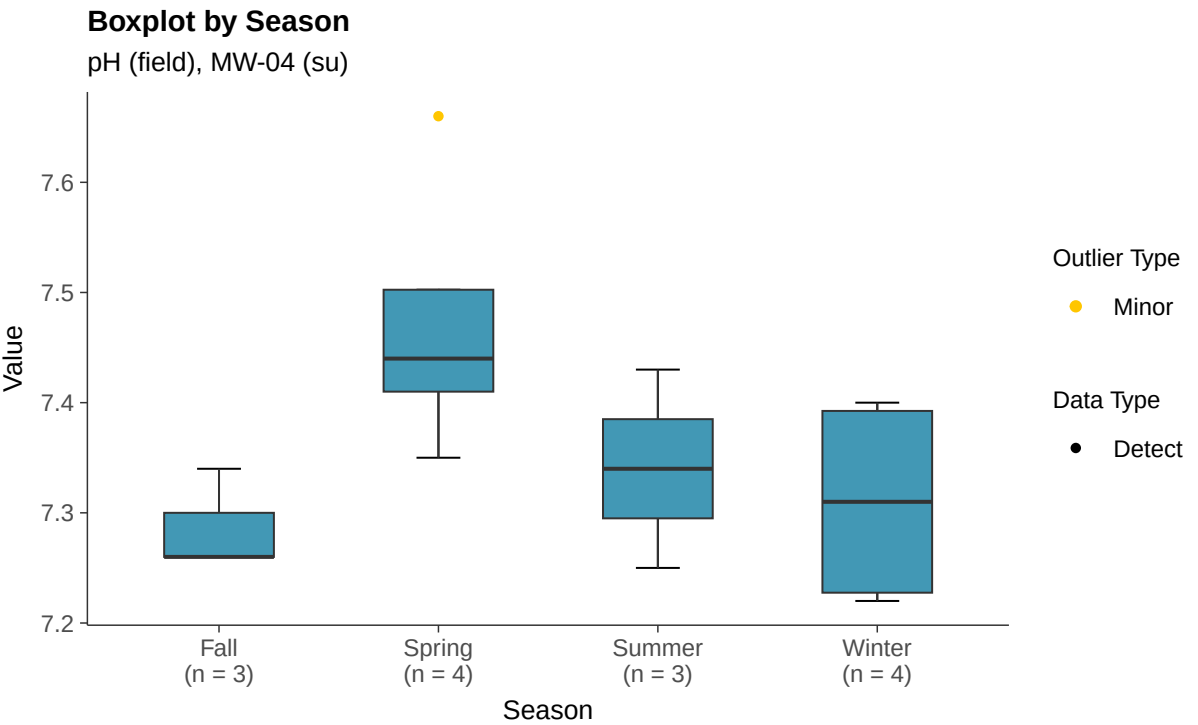
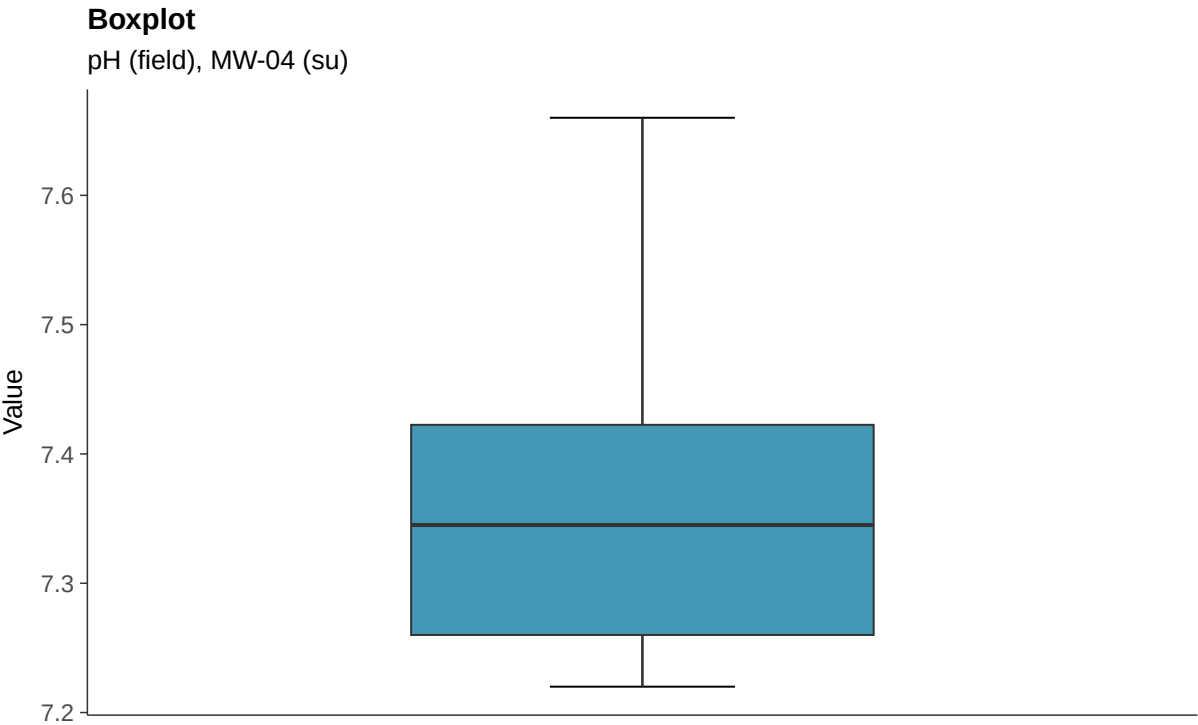


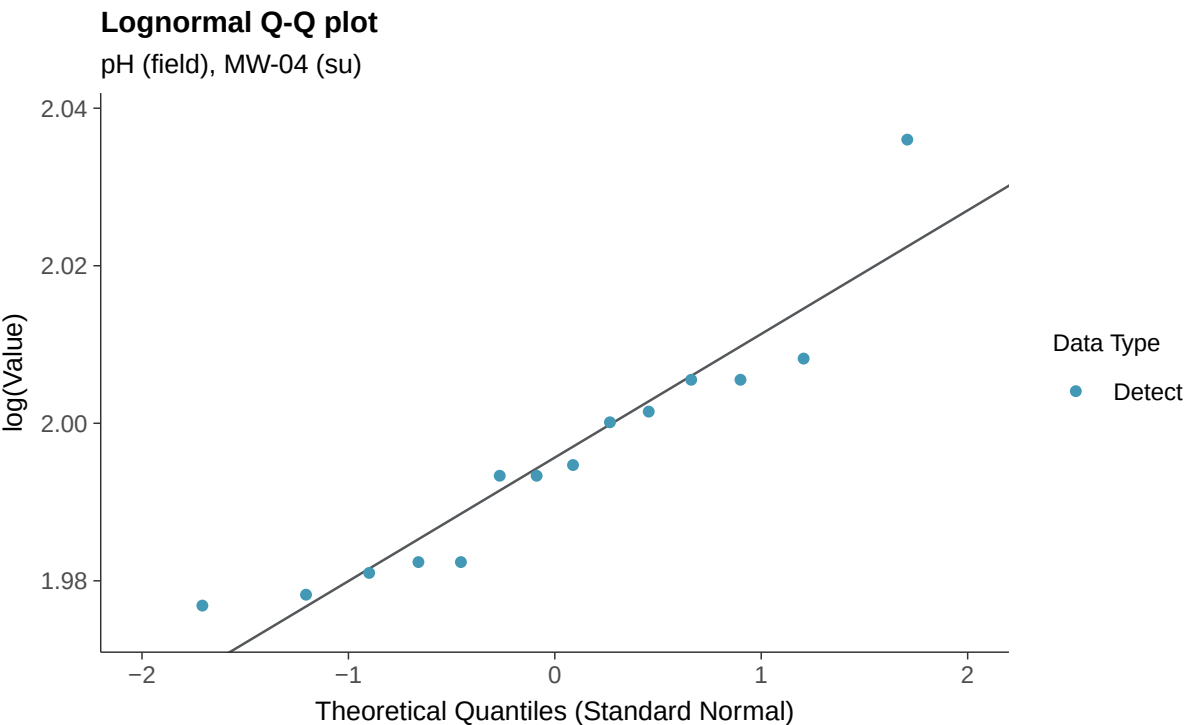
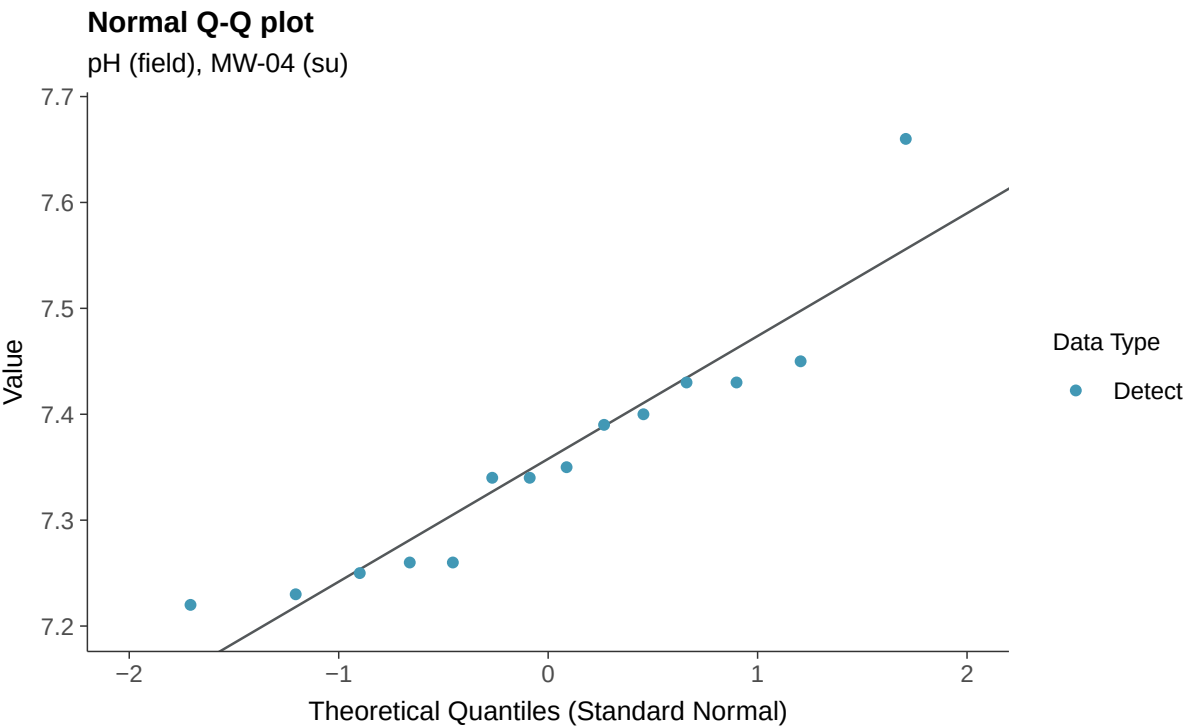


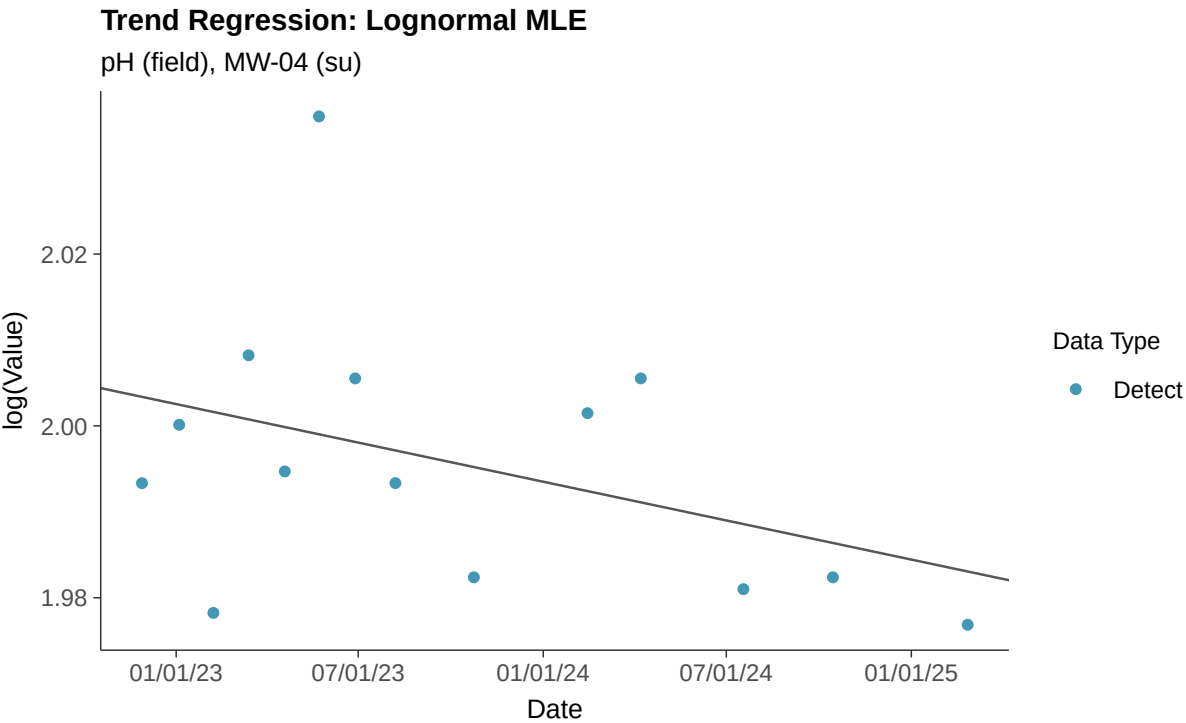
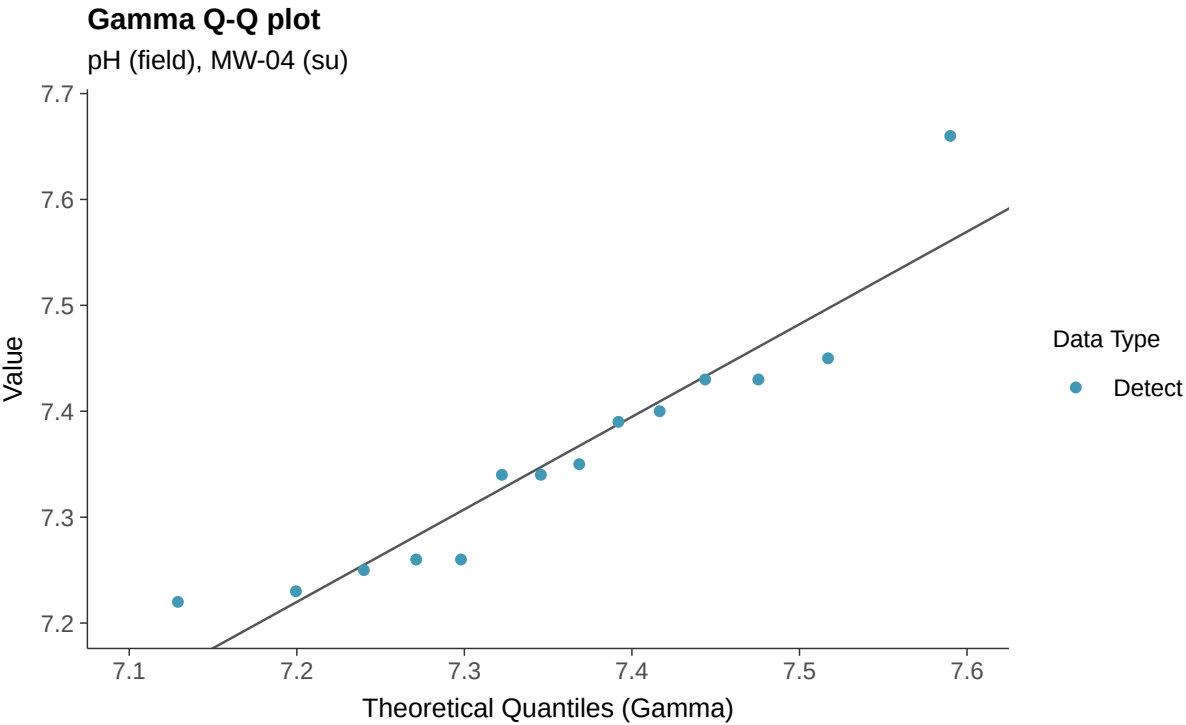
Appendix III: pH (field), MW-04

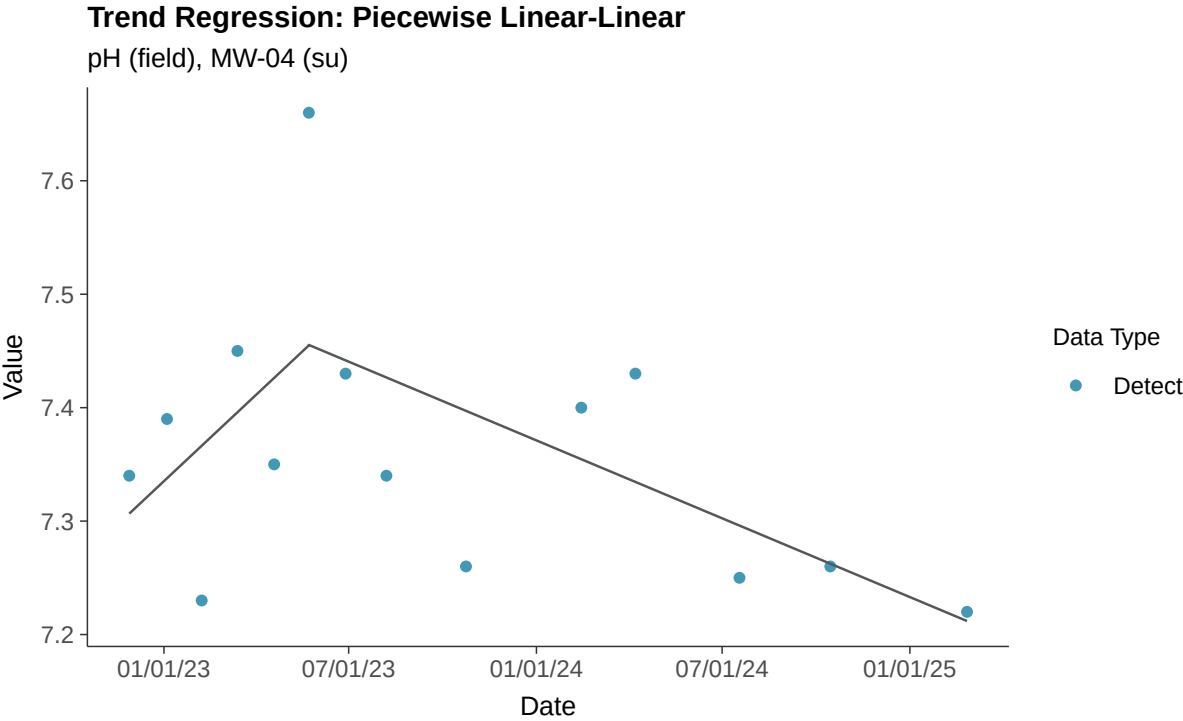
ID: 14_2_3_120





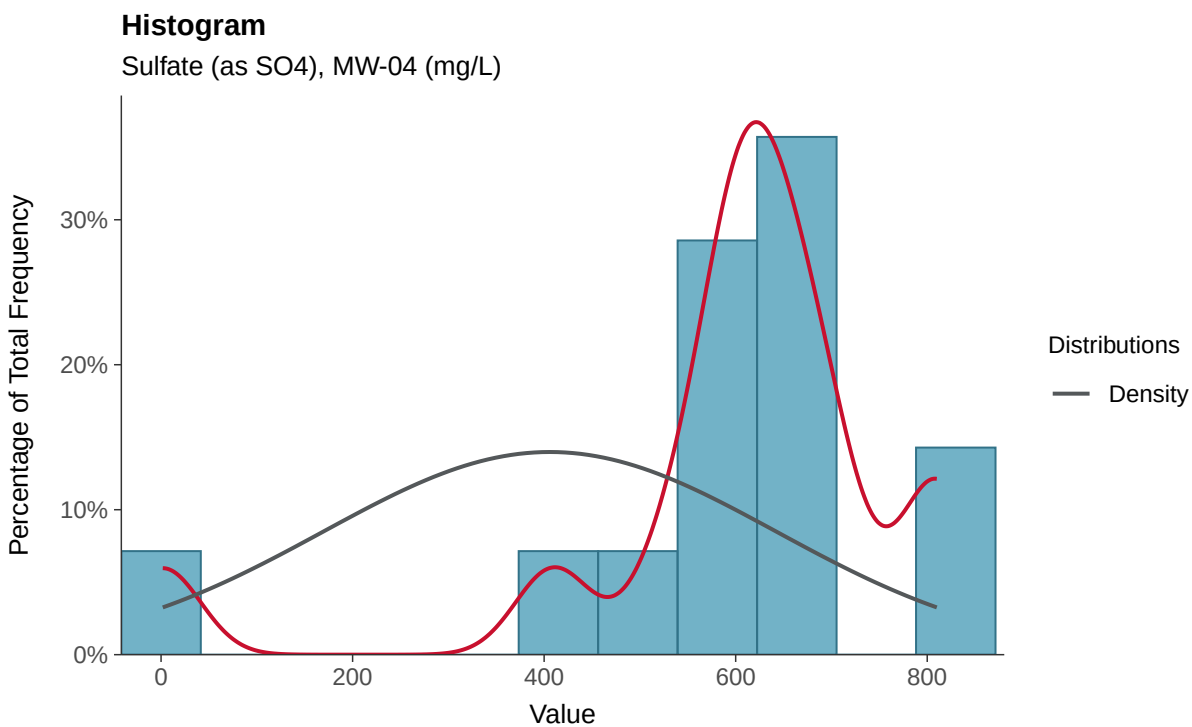
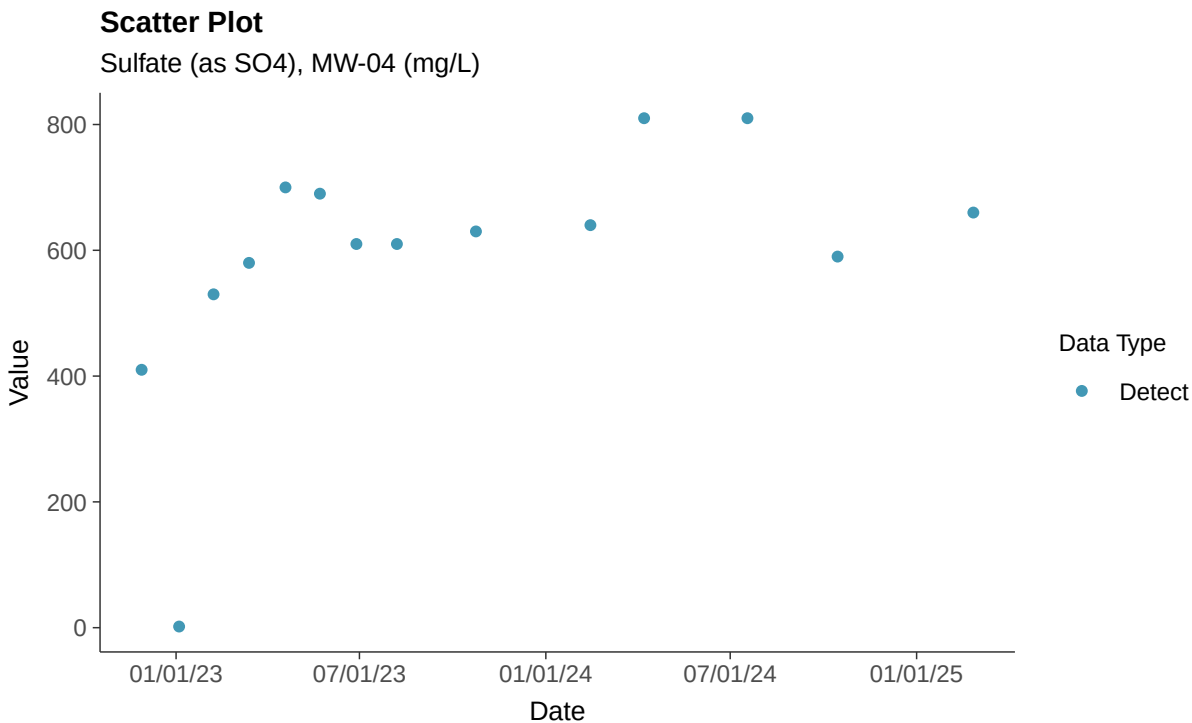


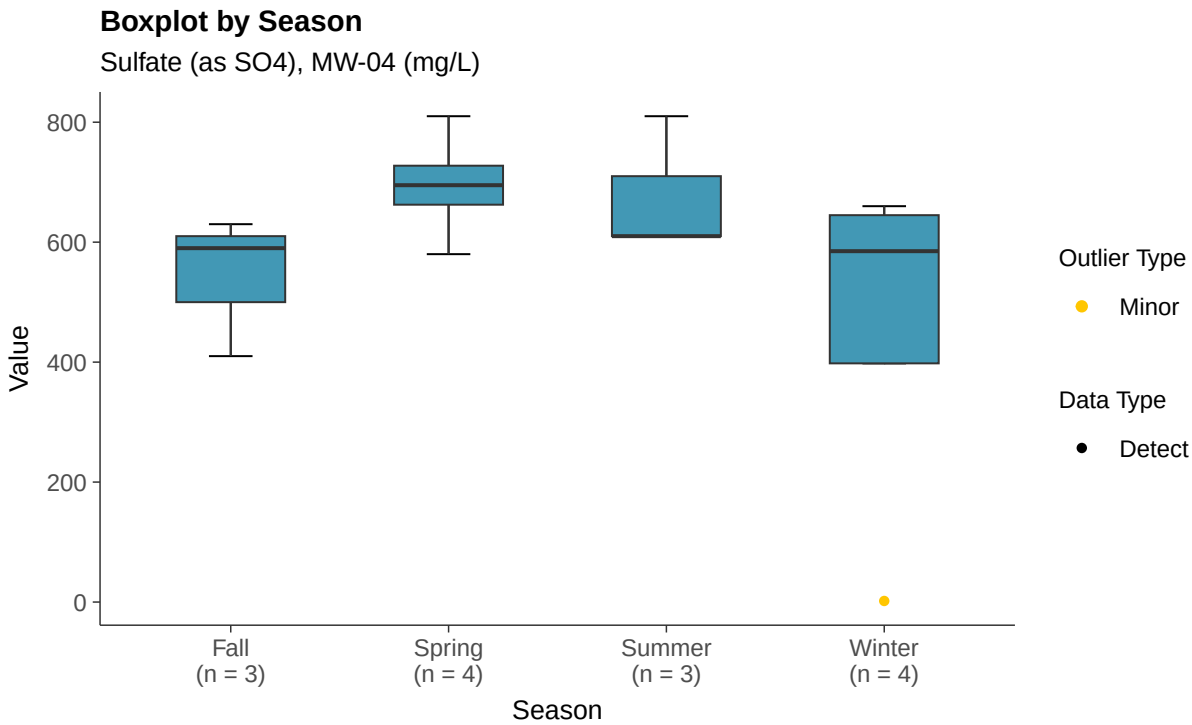
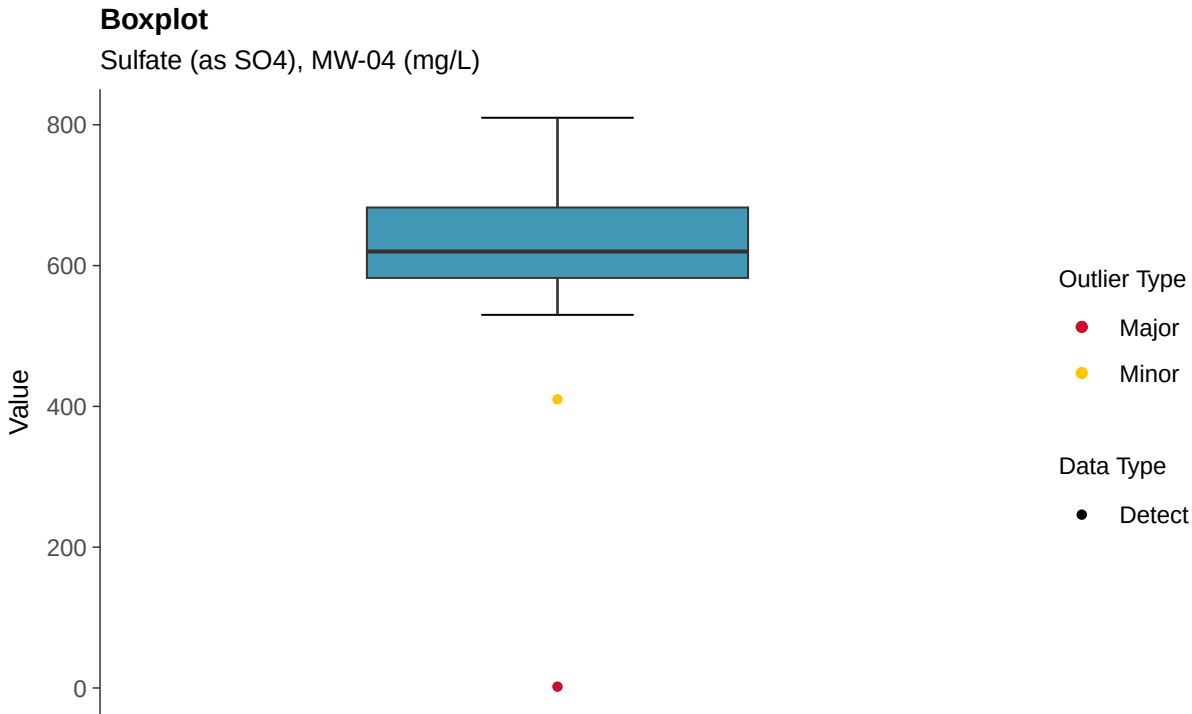


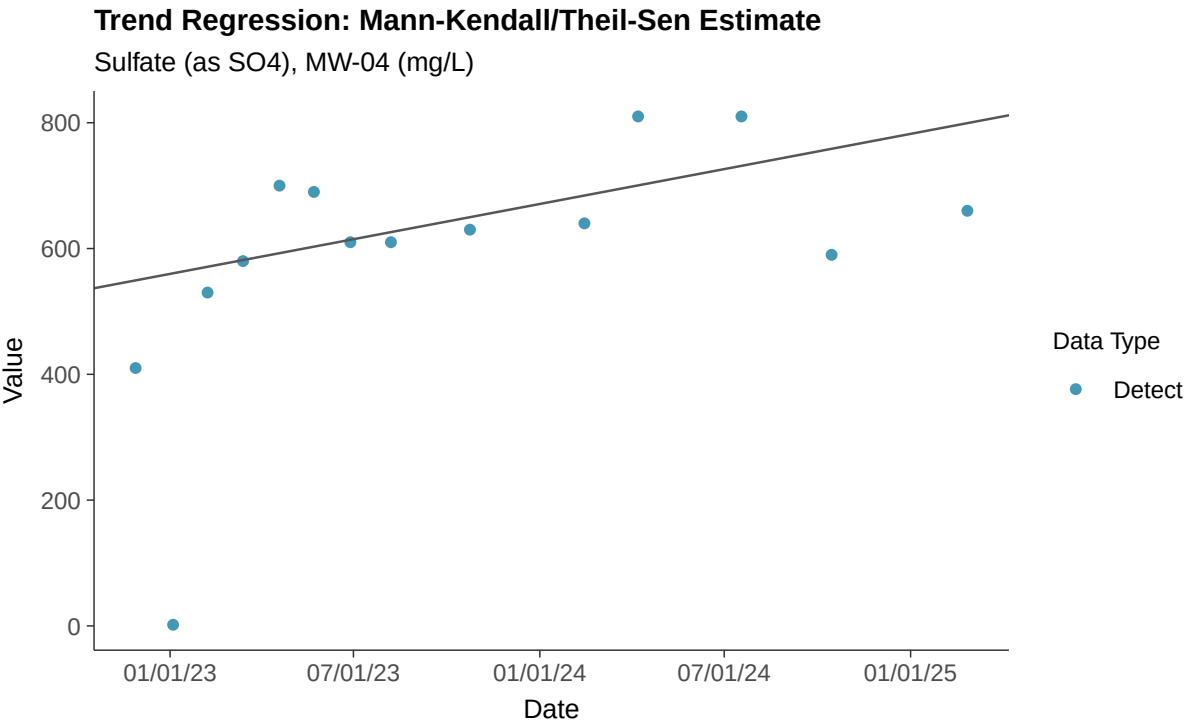
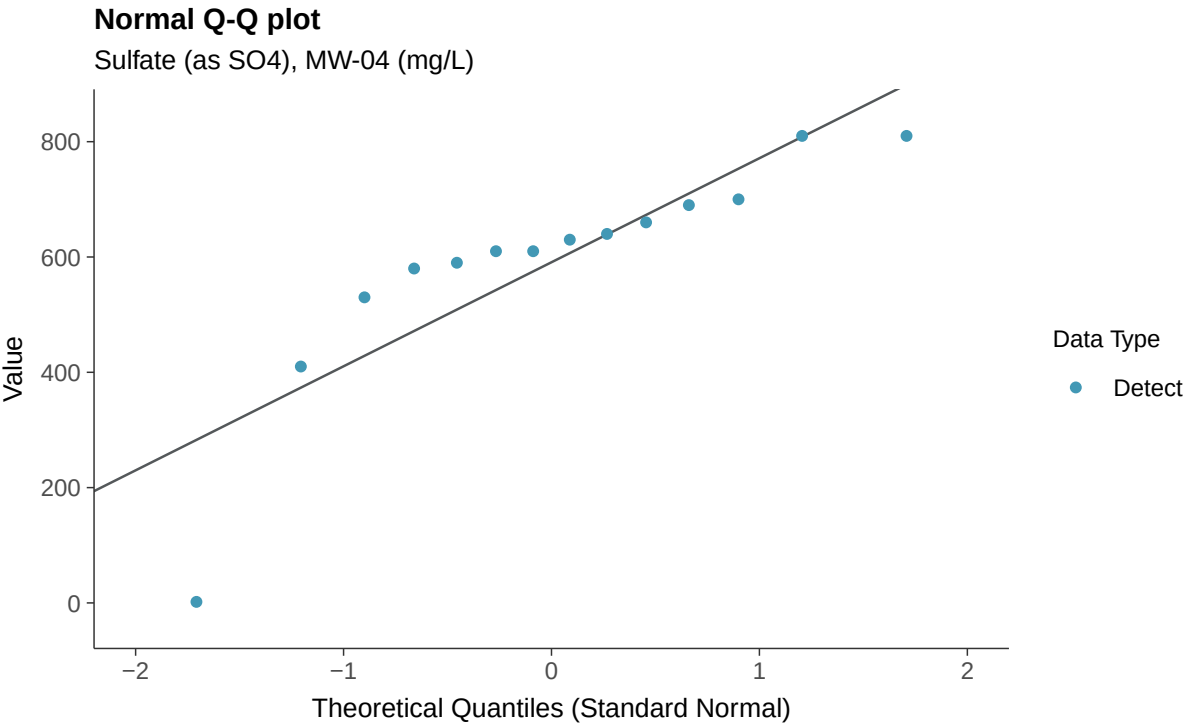


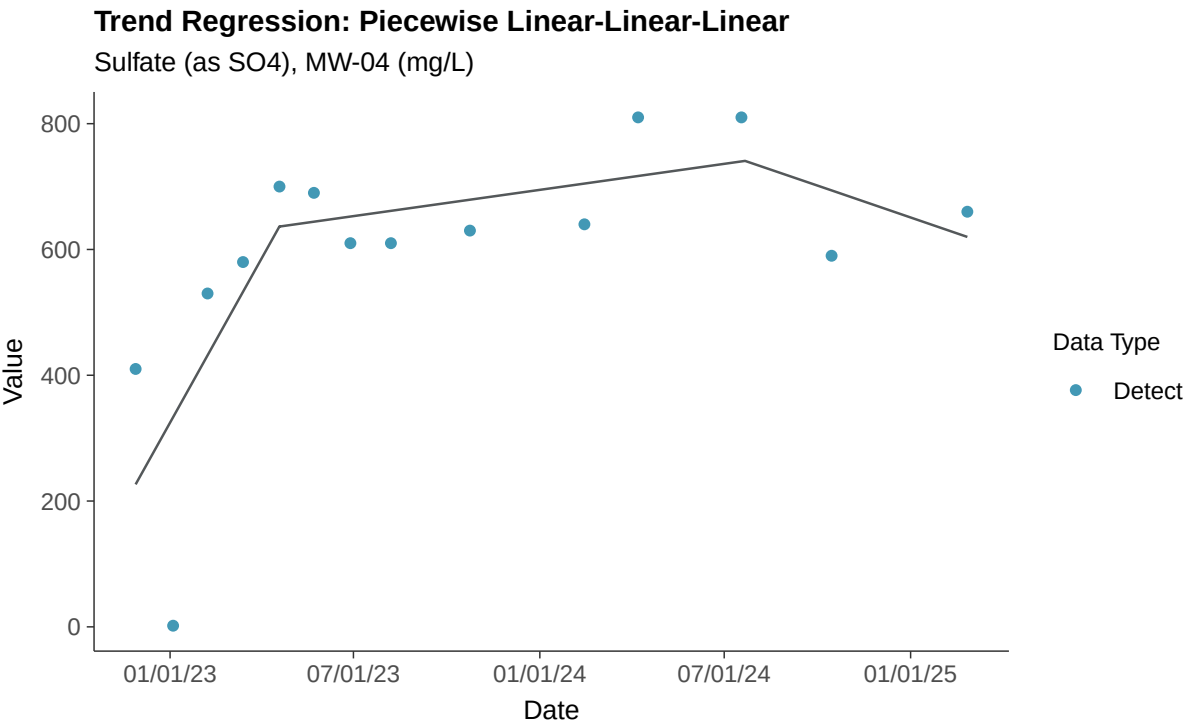
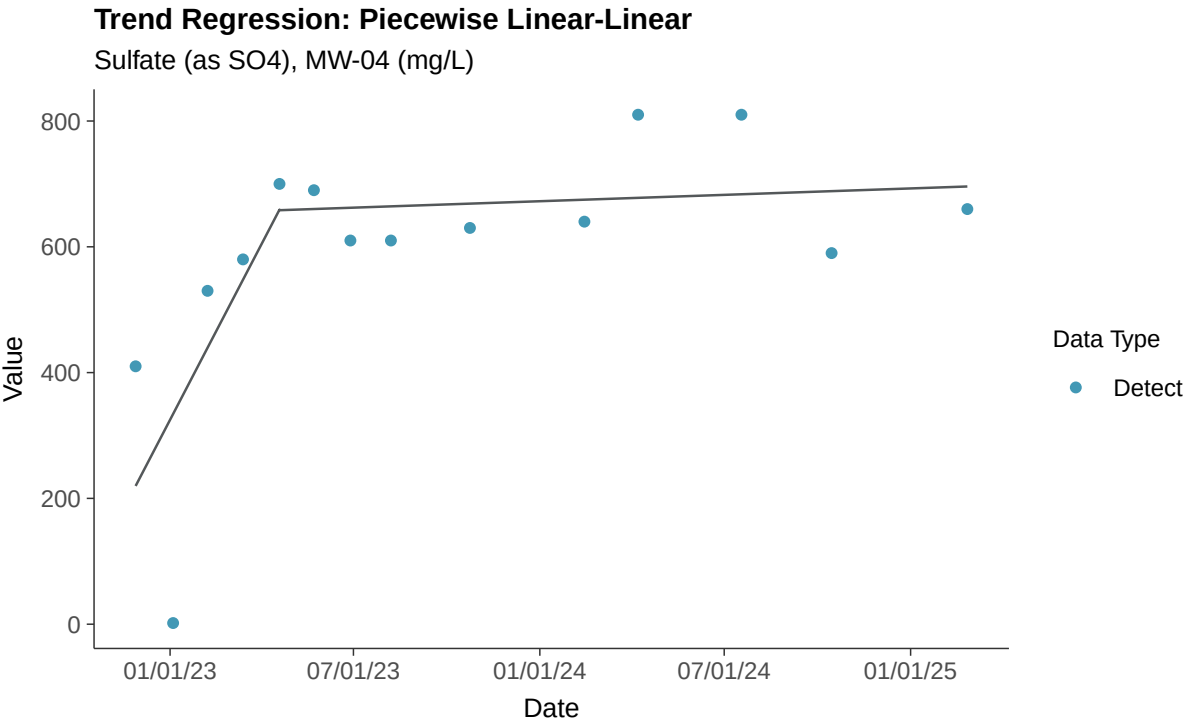
Appendix III: Sulfate (as SO₄), MW-04

ID: 14_2_3_124





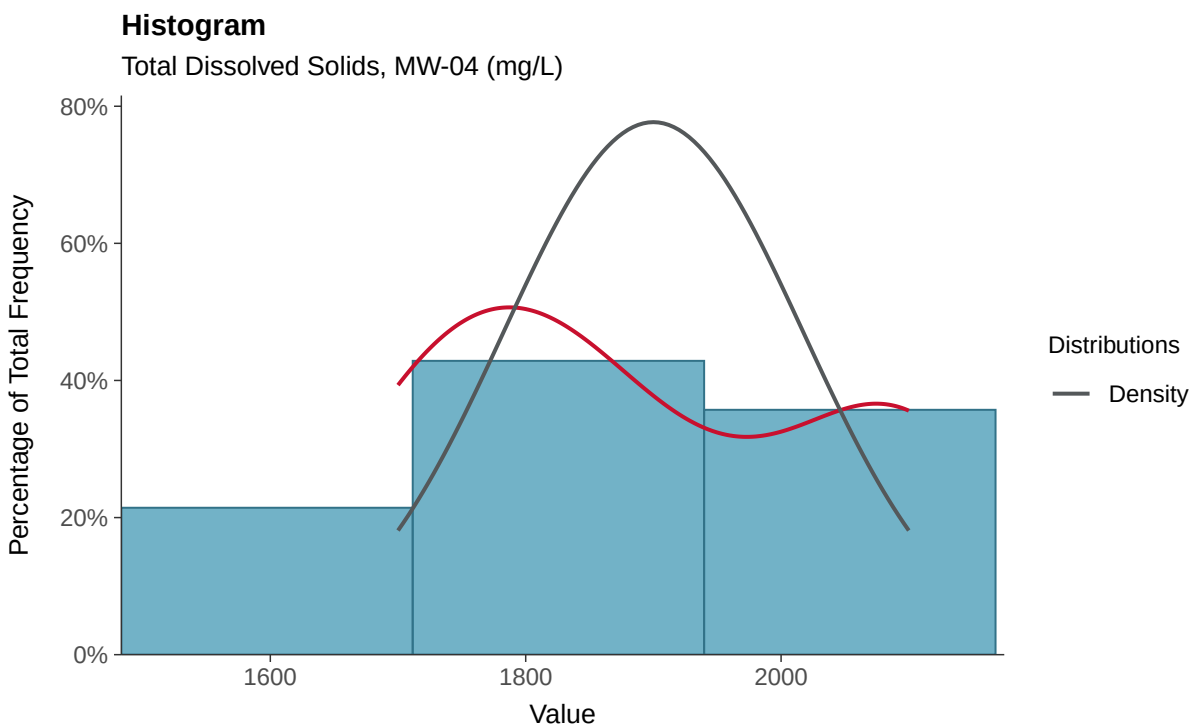
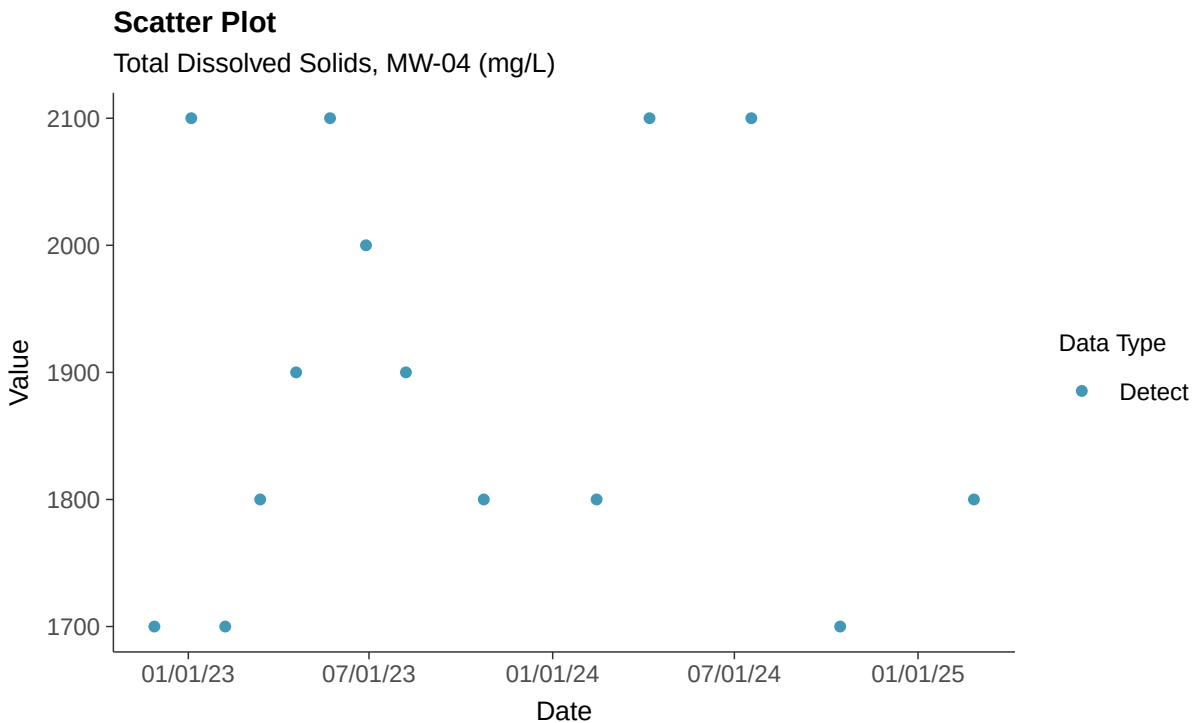


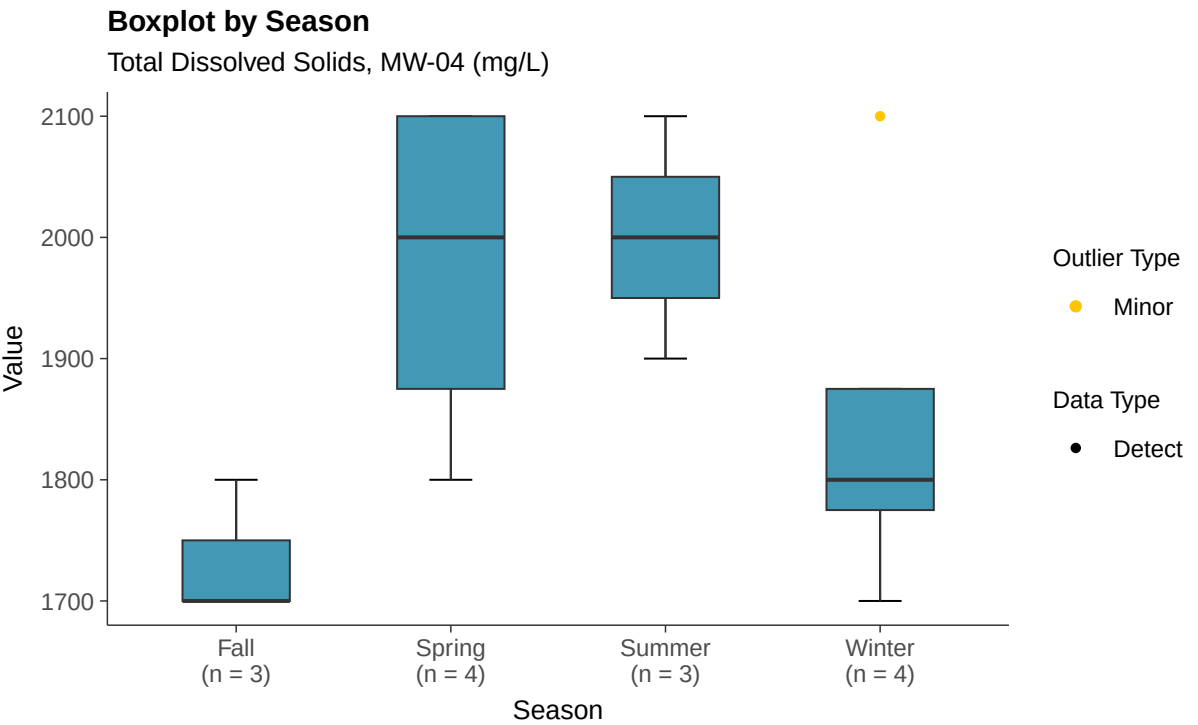
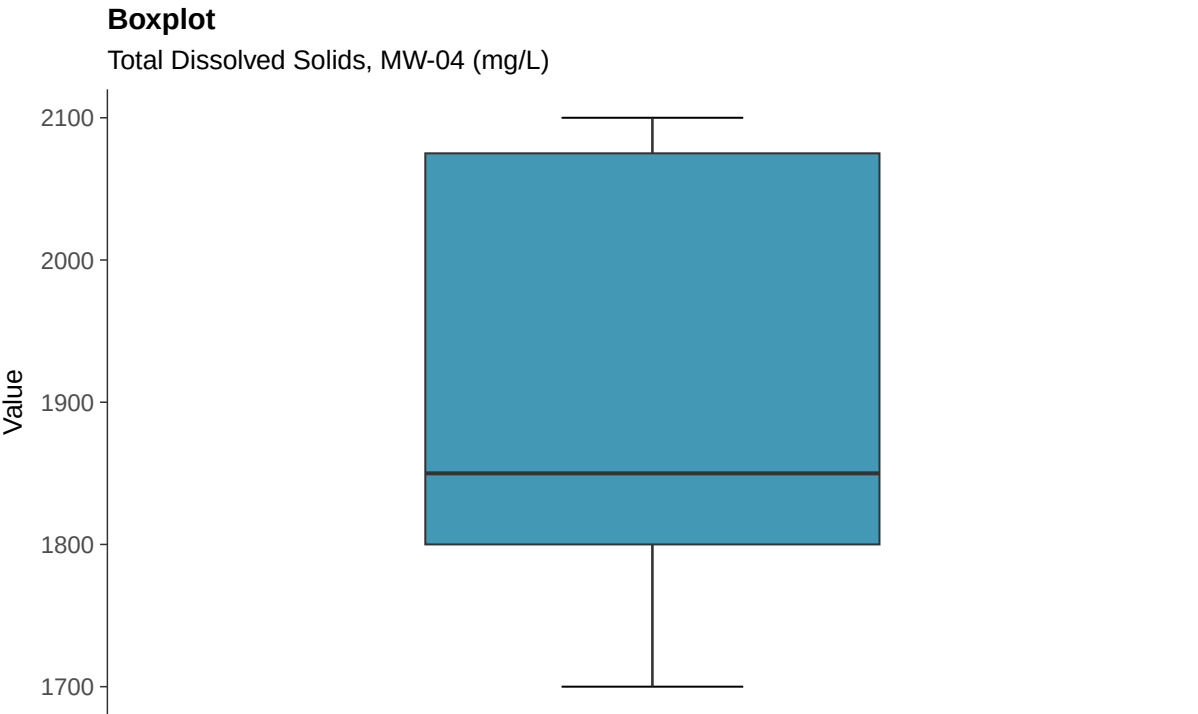


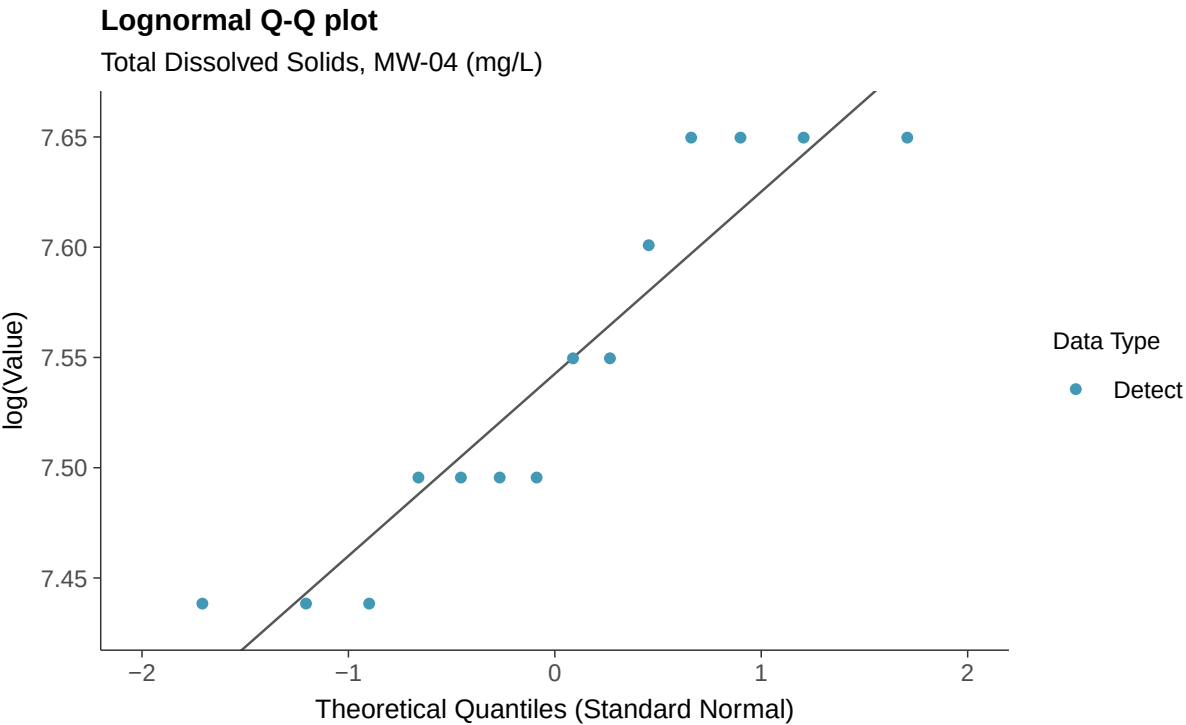
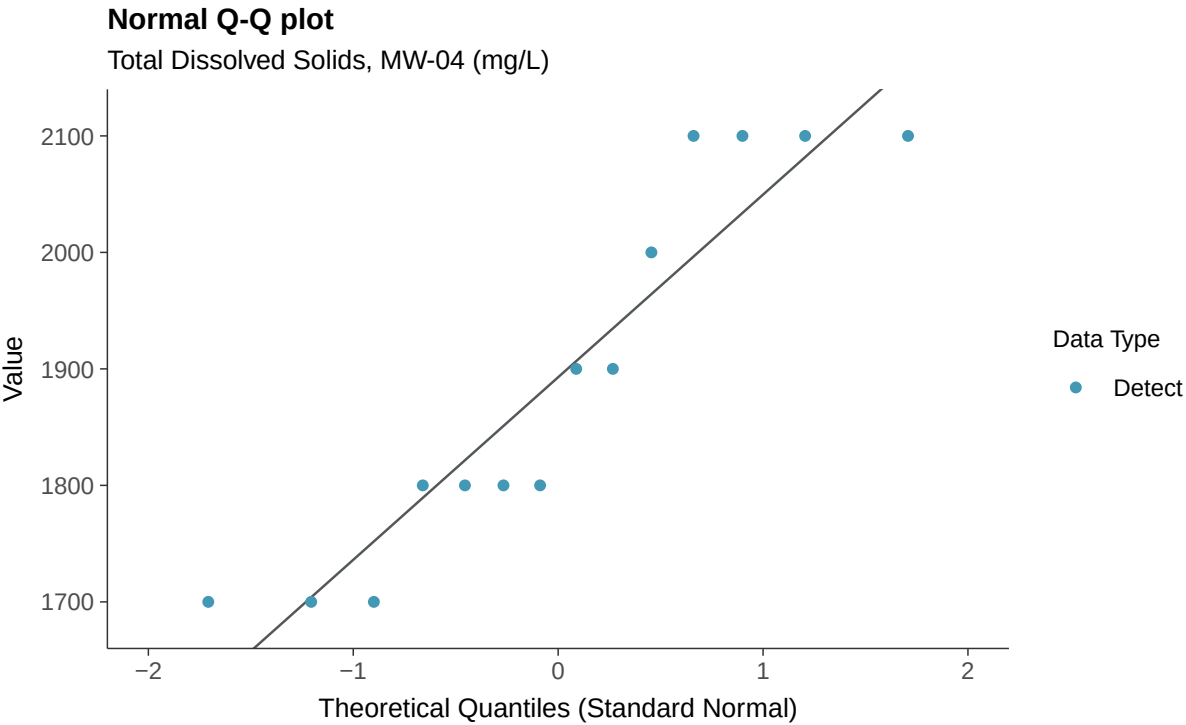


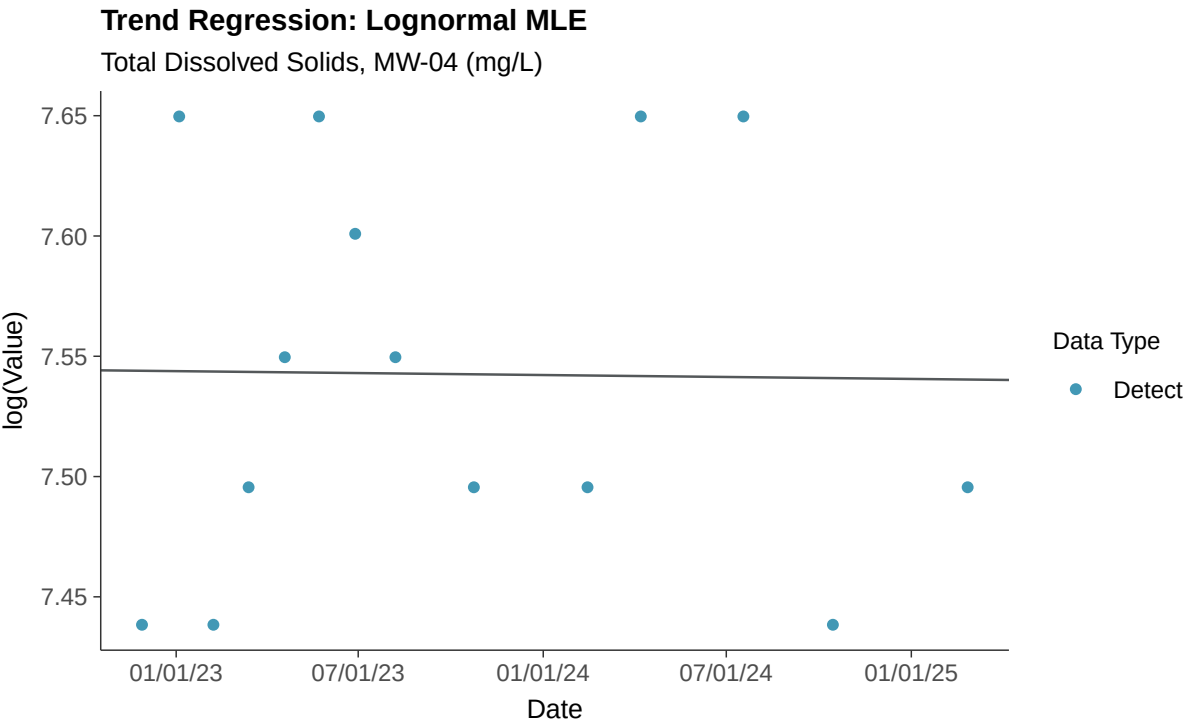
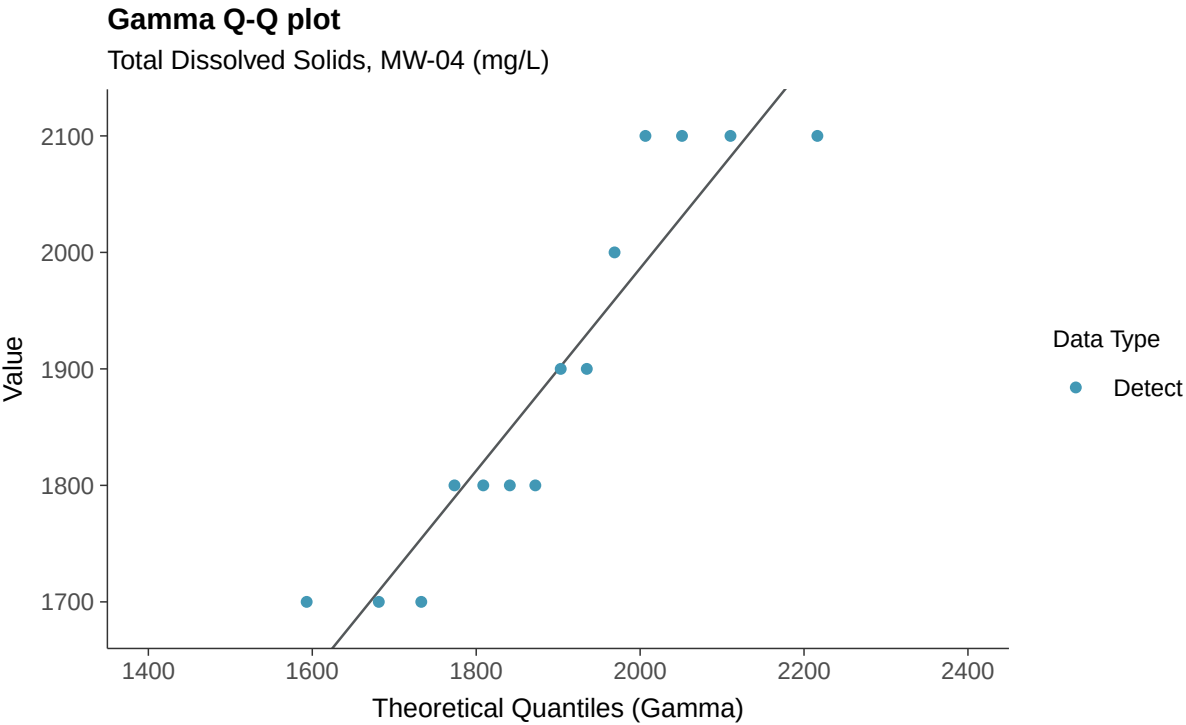
Appendix III: Total Dissolved Solids, MW-04

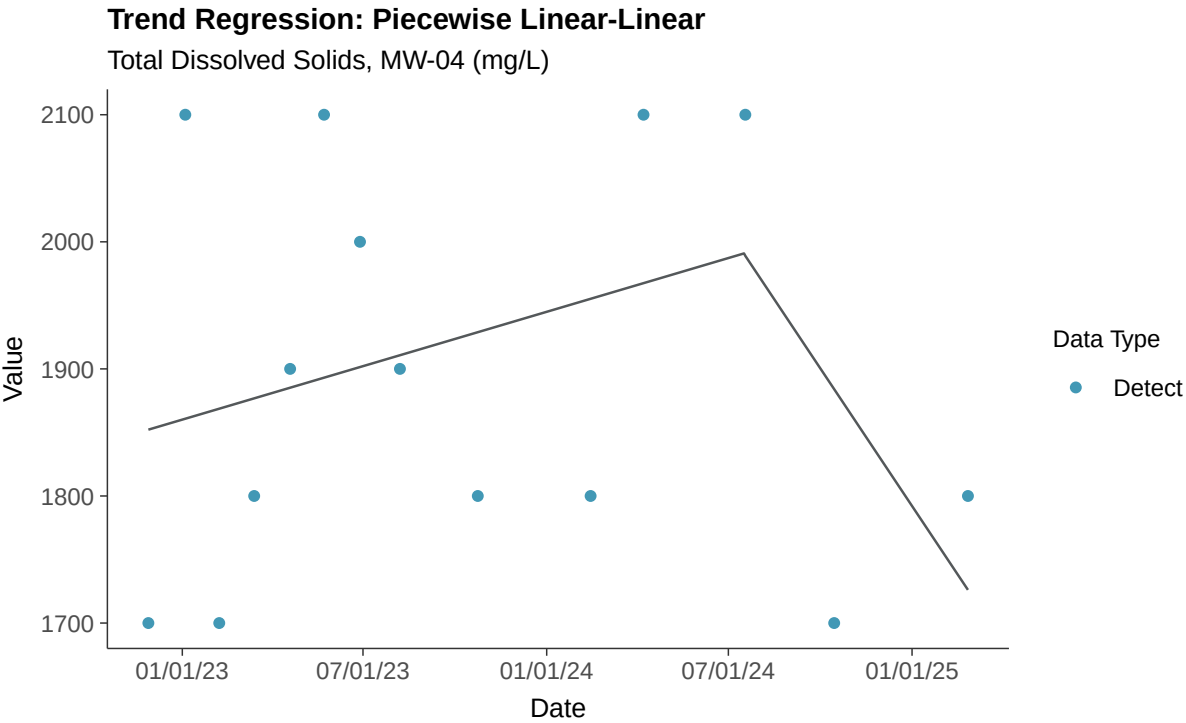
ID: 14_2_3_126







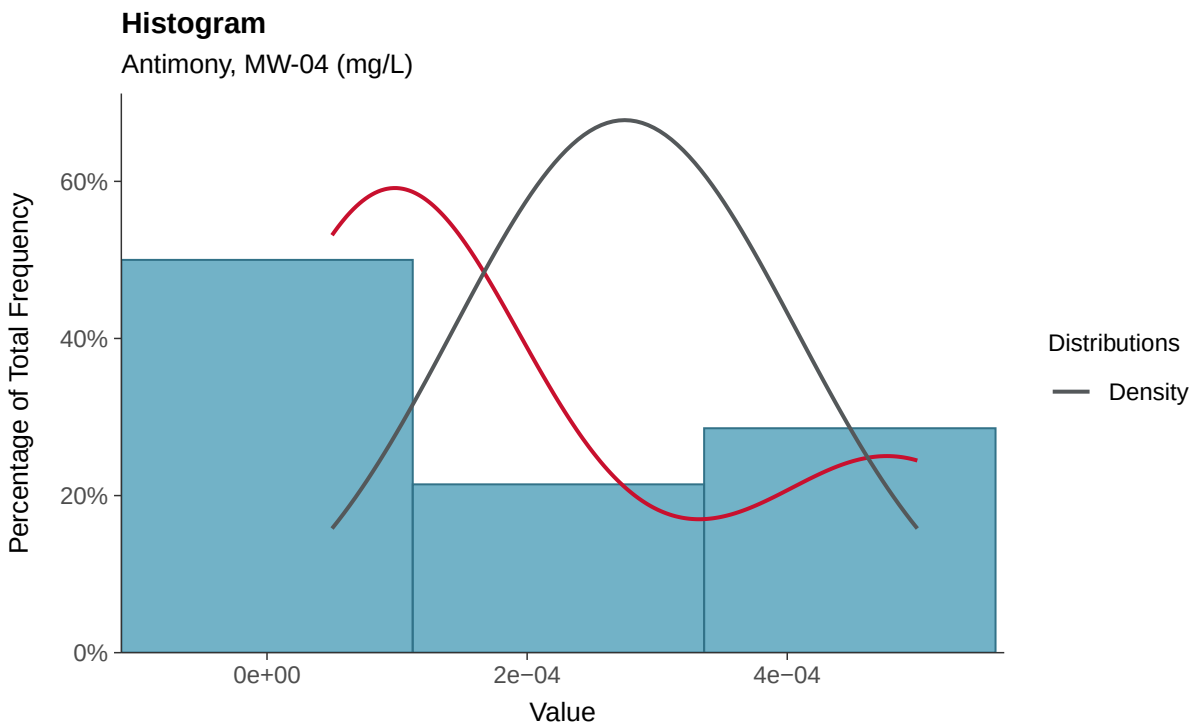
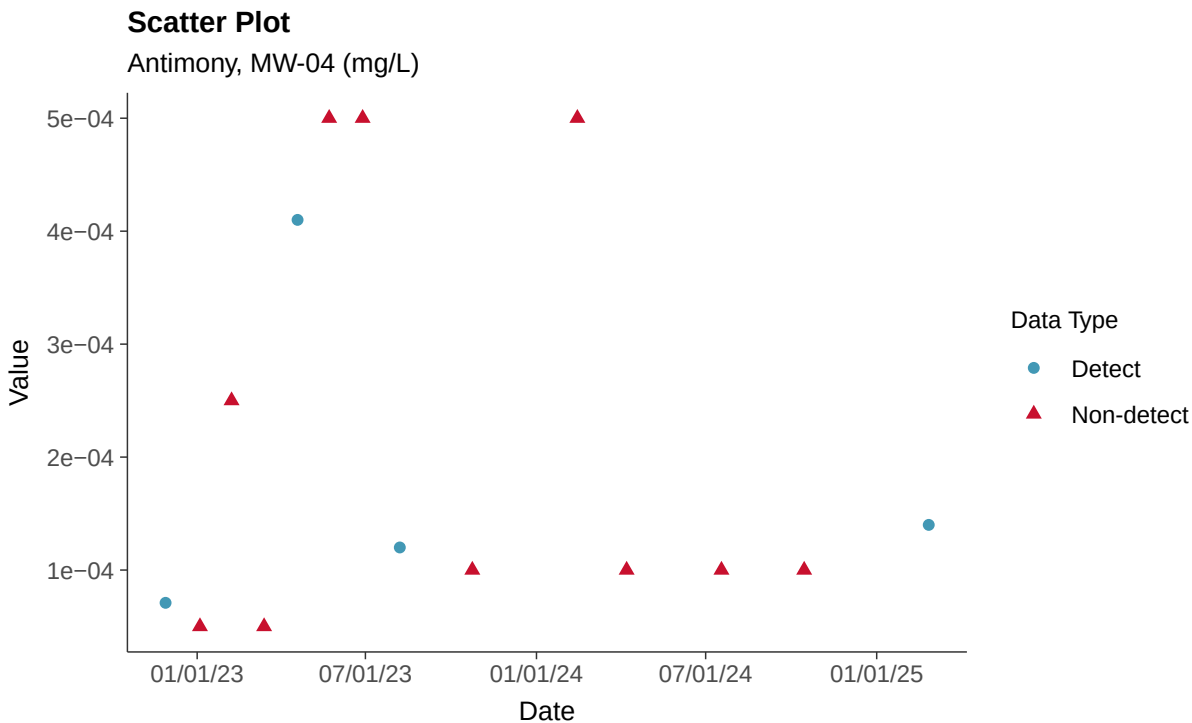


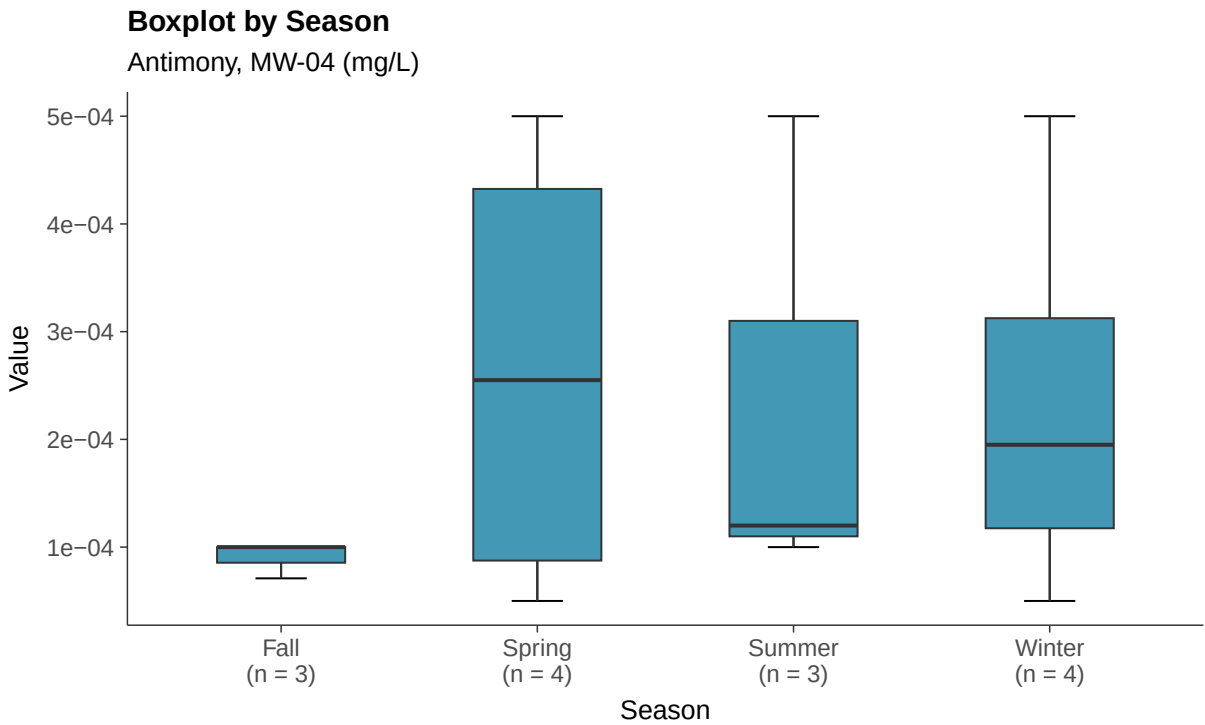
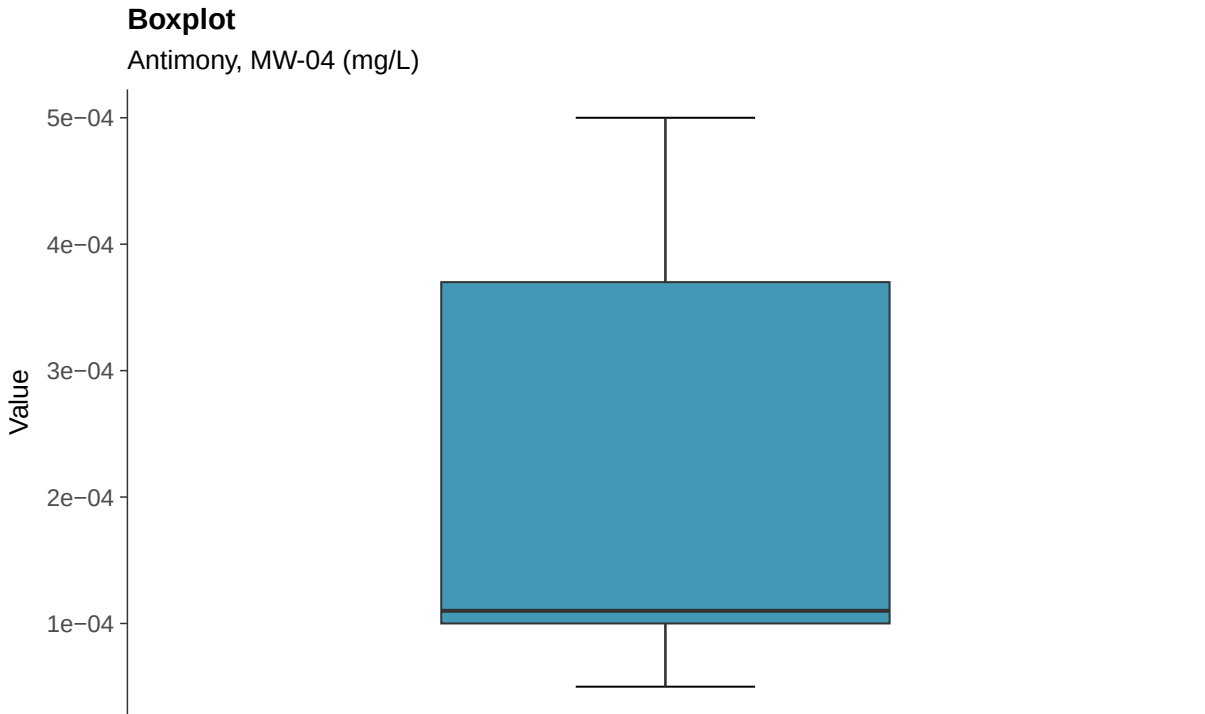




Appendix IV: Antimony, MW-04

ID: 14_2_4_101

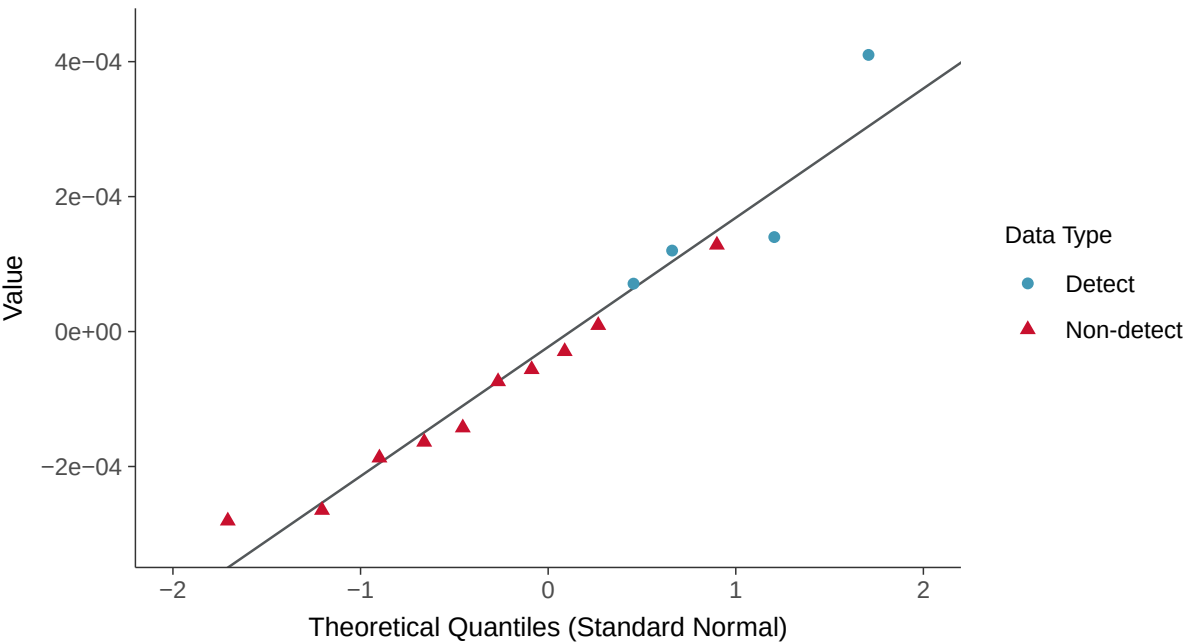






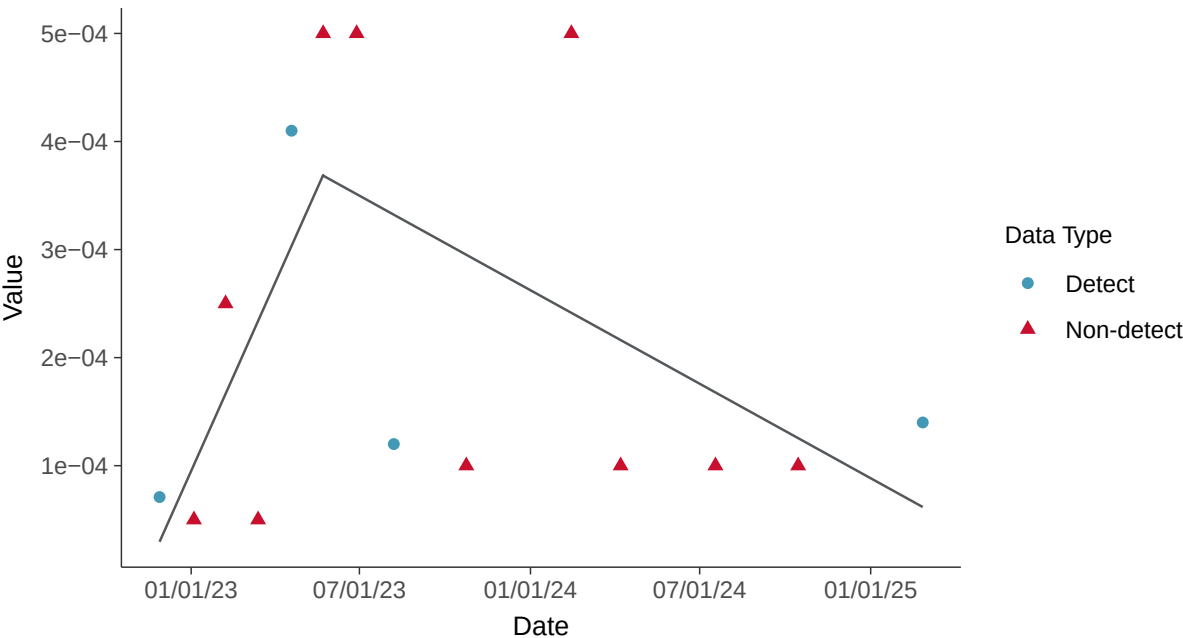
Normal Q-Q plot using ROS Imputed Estimates

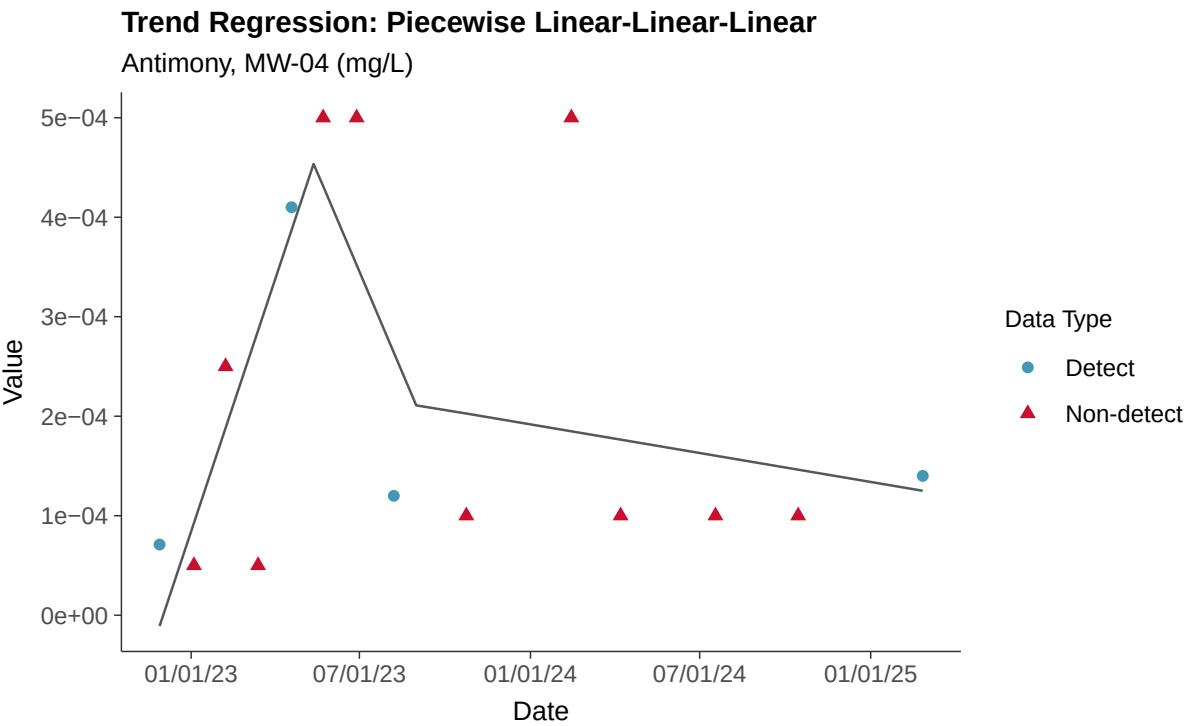
Antimony, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-04 (mg/L)

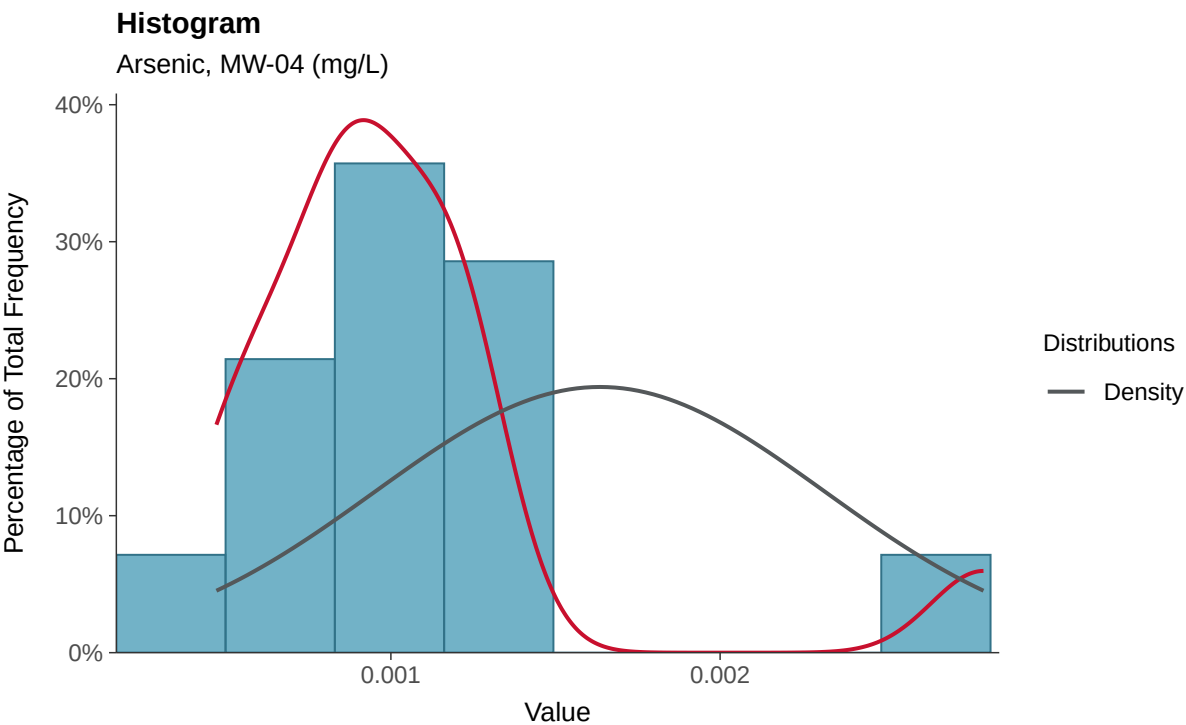
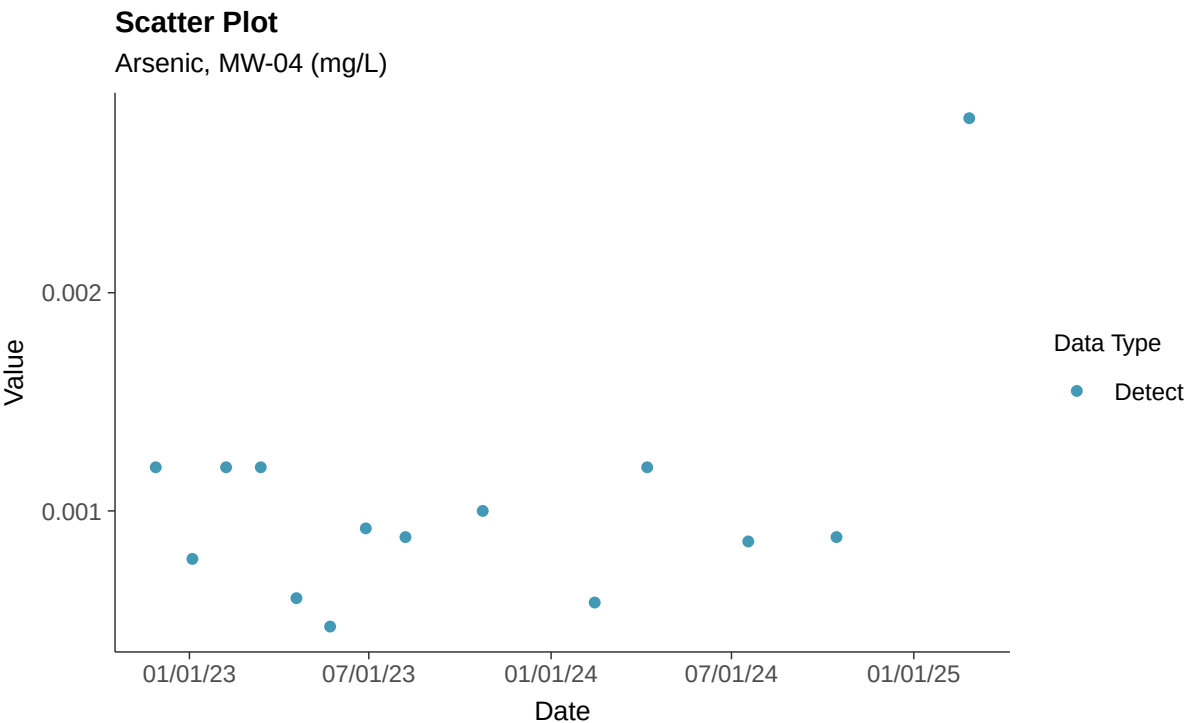


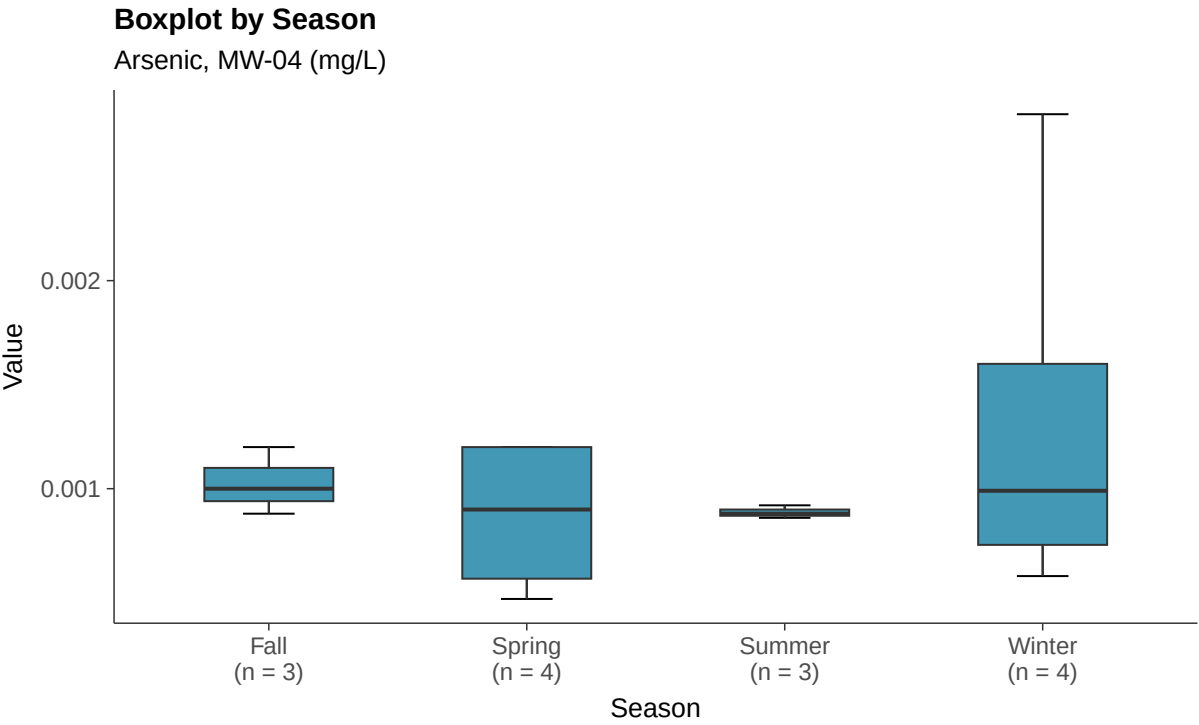
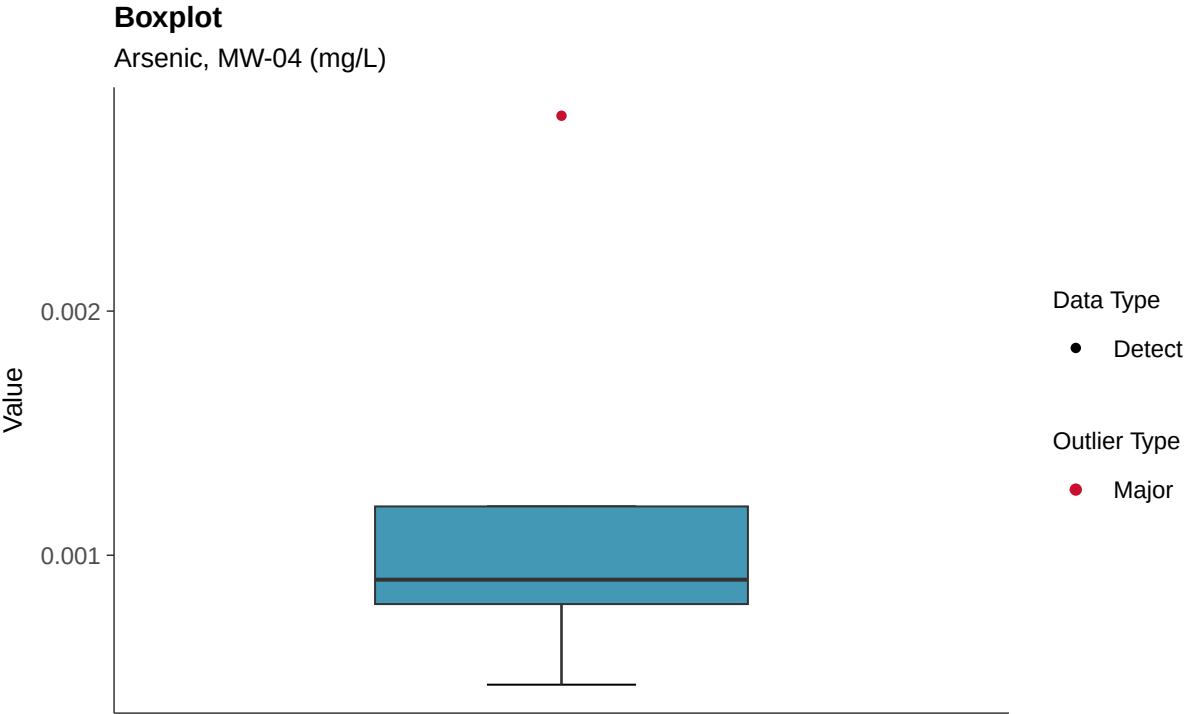


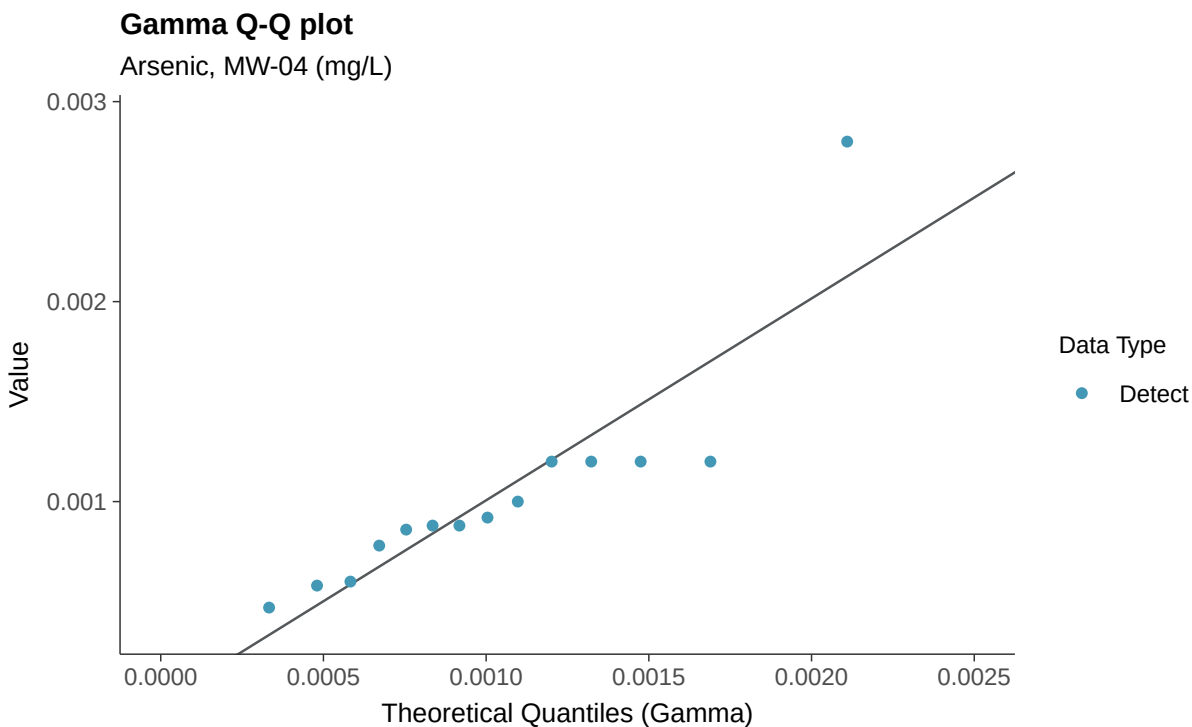
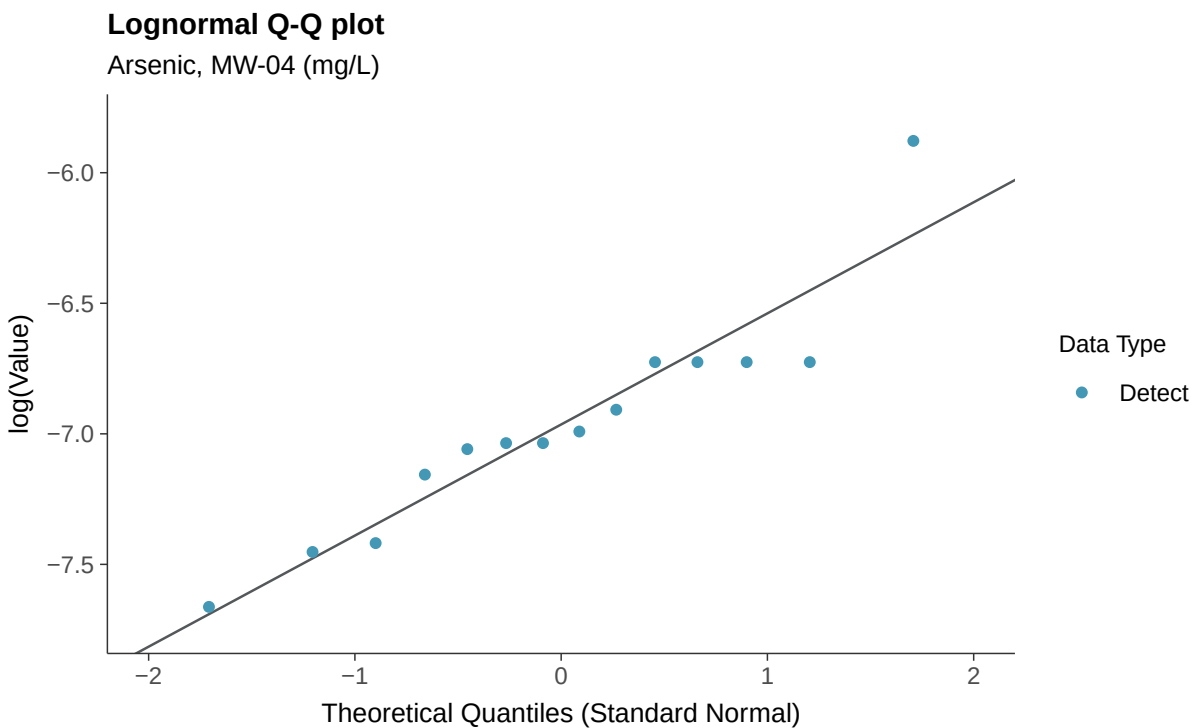


Appendix IV: Arsenic, MW-04

ID: 14_2_4_102



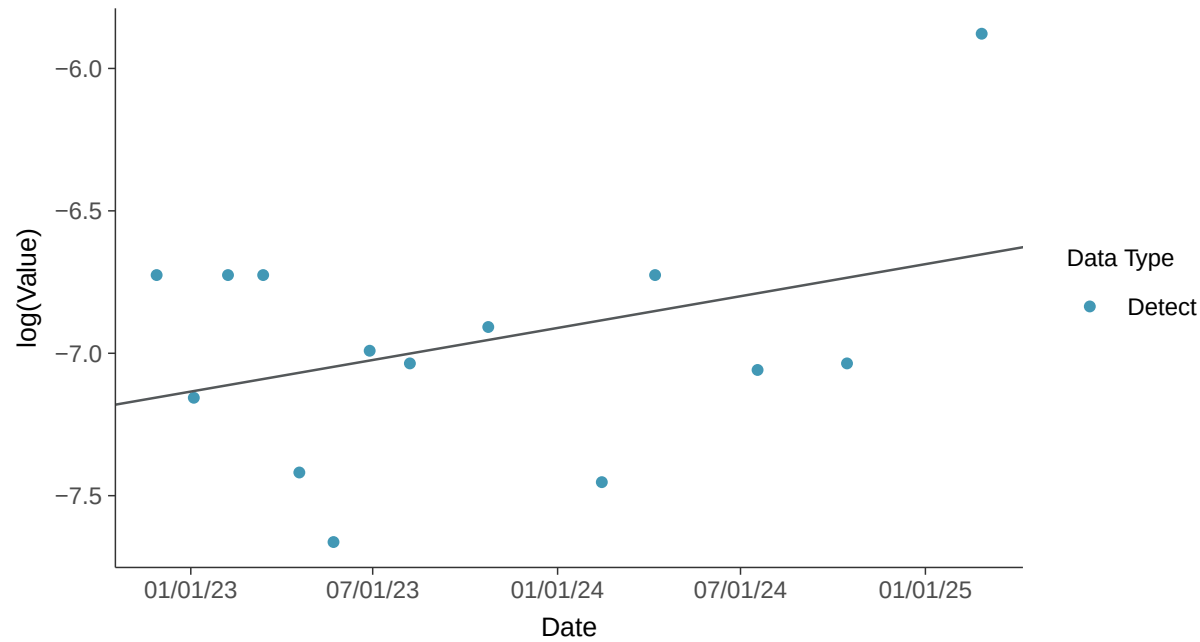






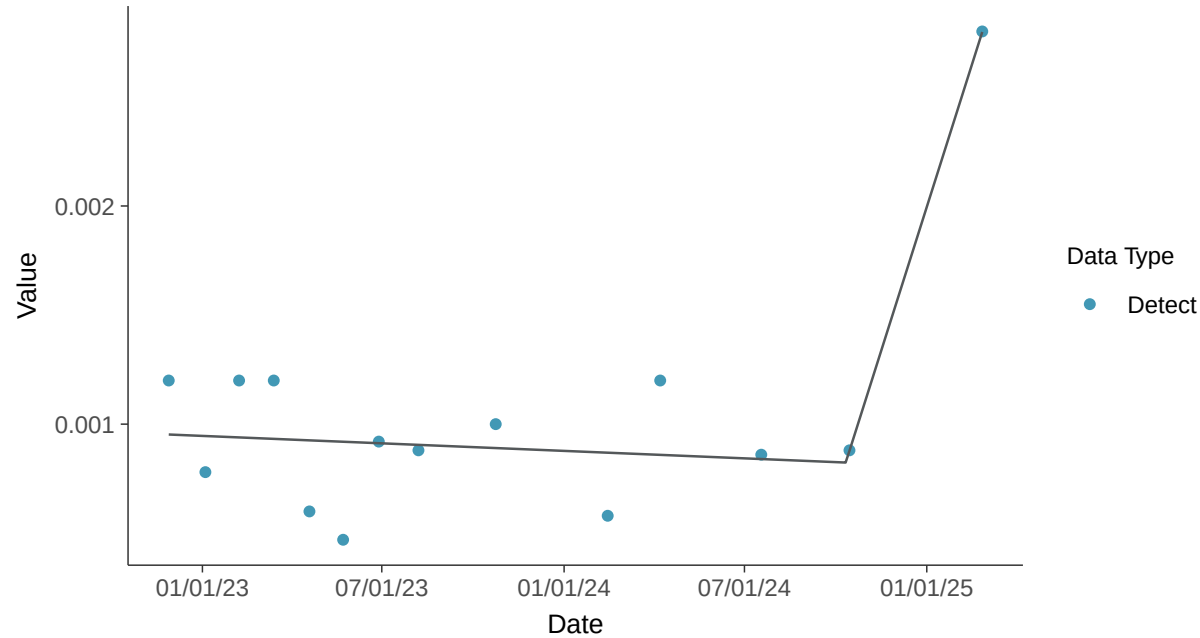
Trend Regression: Lognormal MLE

Arsenic, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

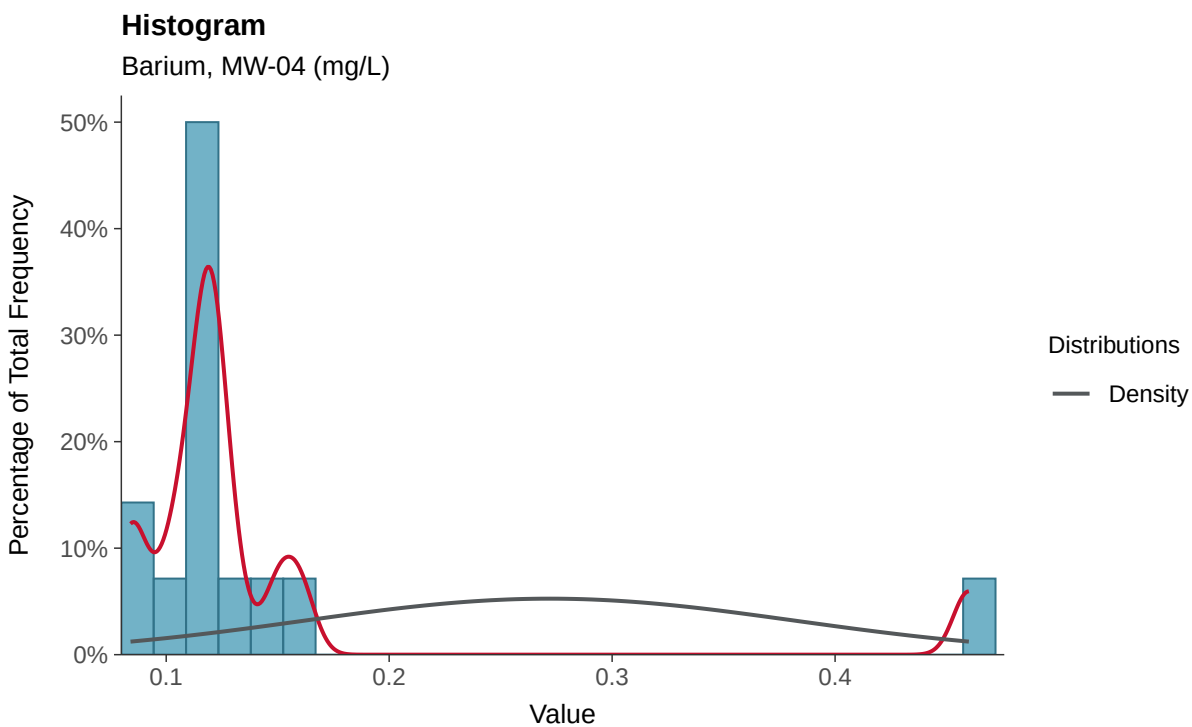
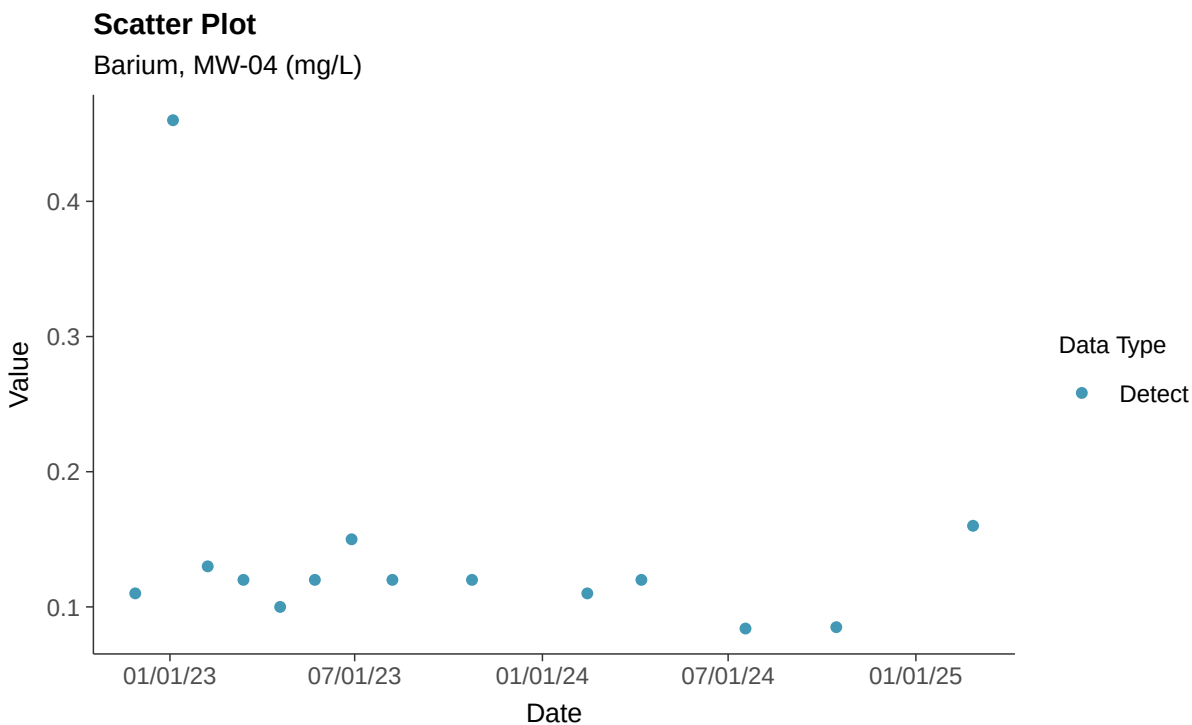
Arsenic, MW-04 (mg/L)

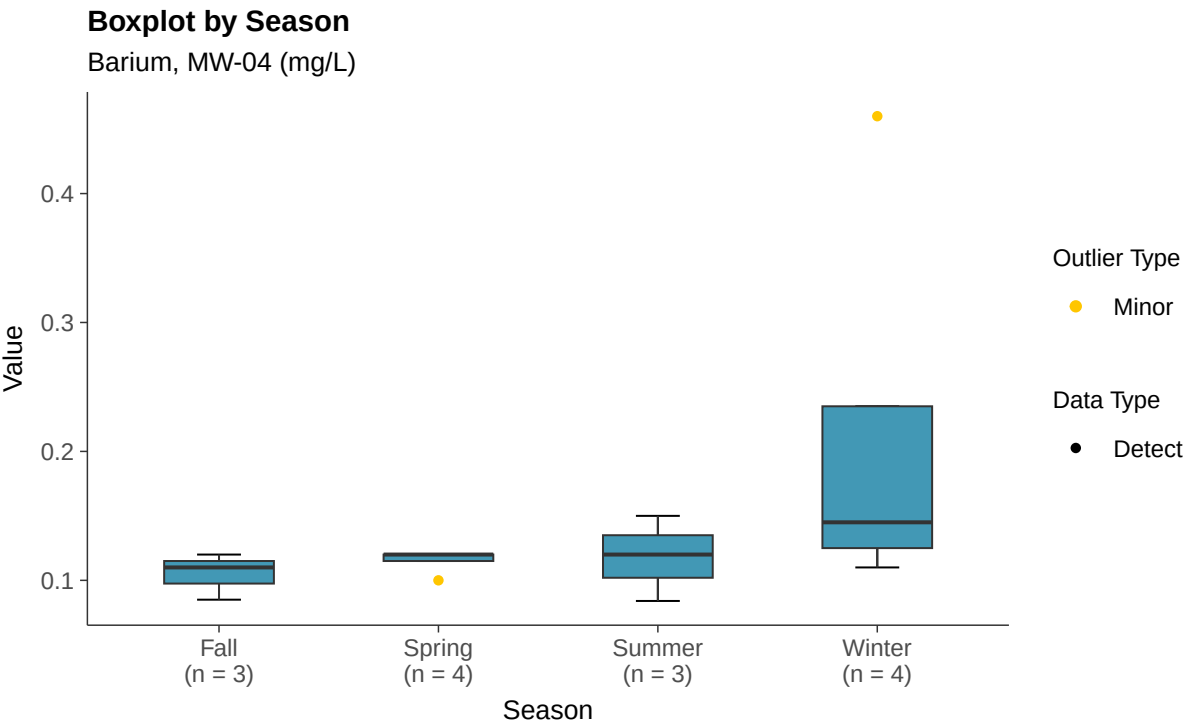
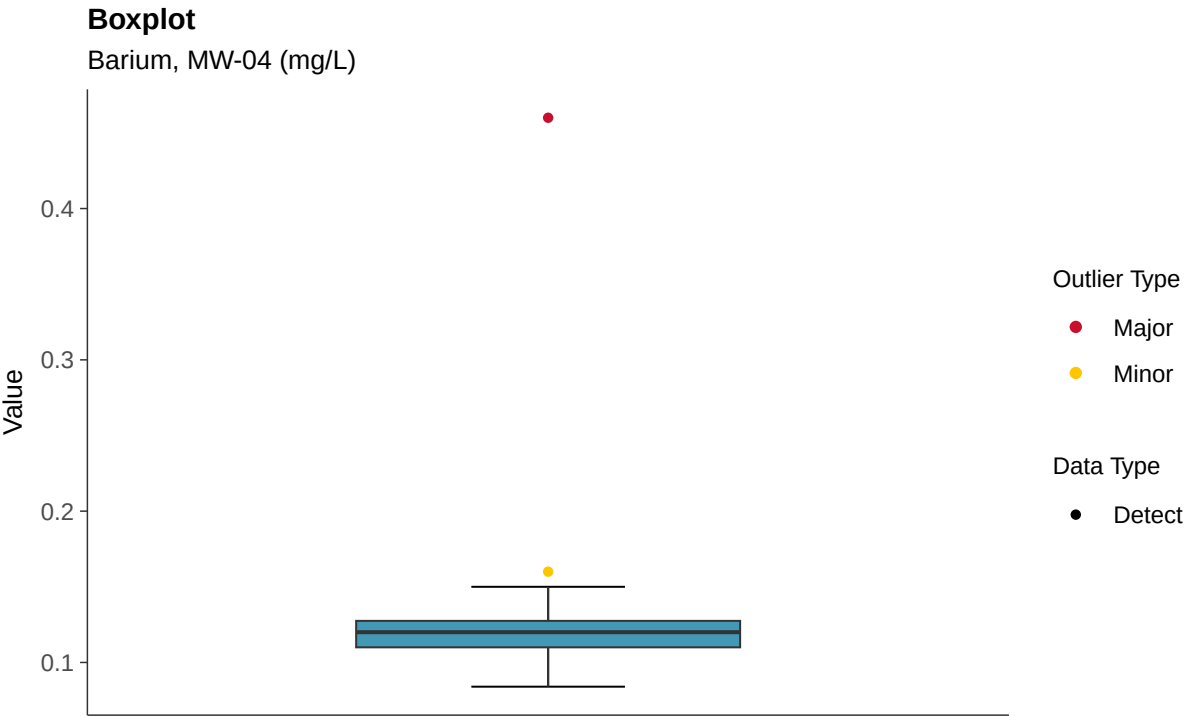


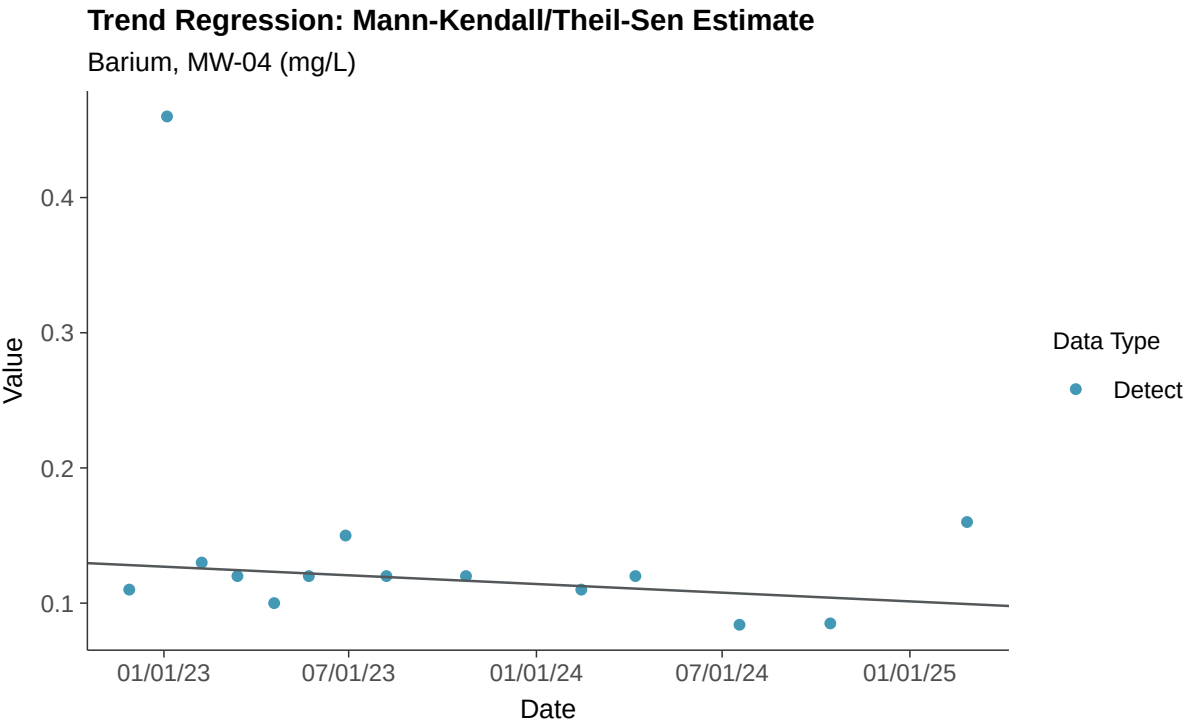
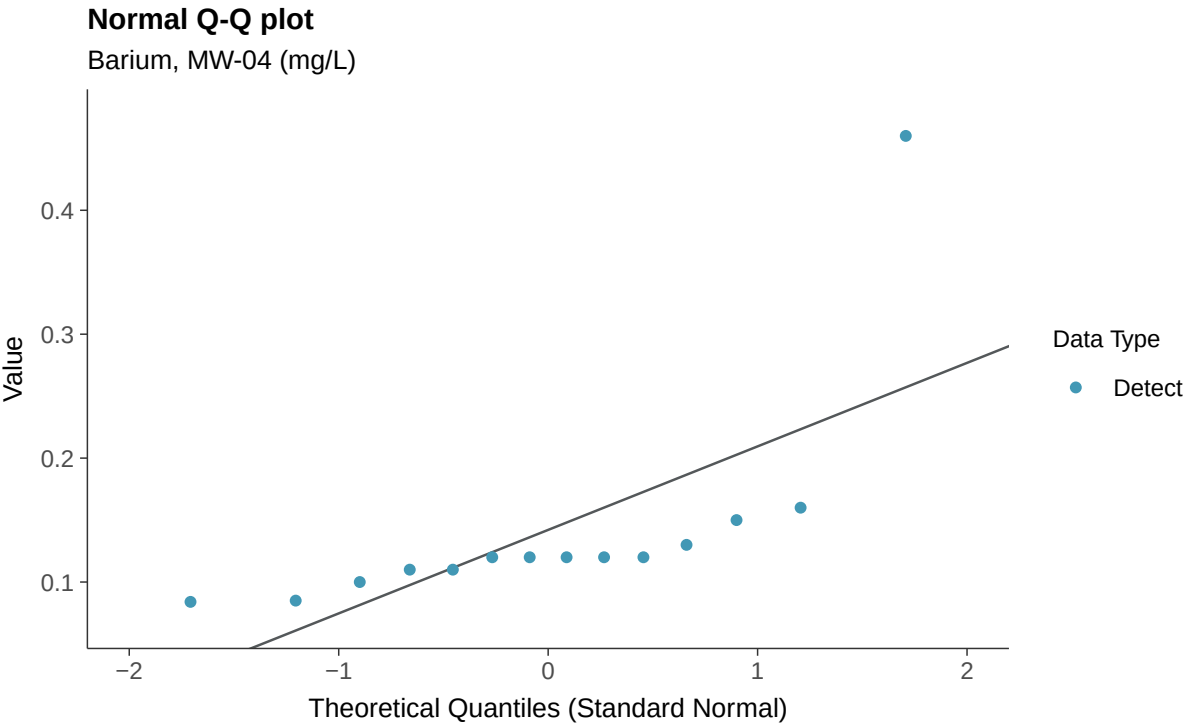


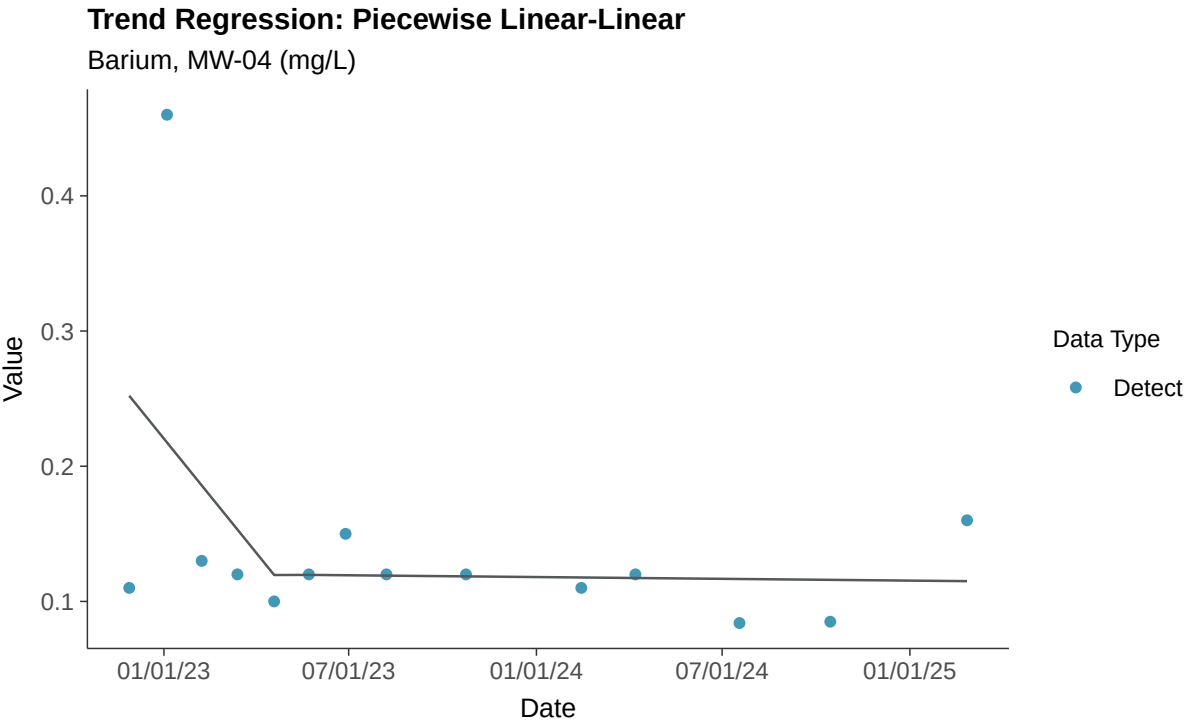
Appendix IV: Barium, MW-04

ID: 14_2_4_103





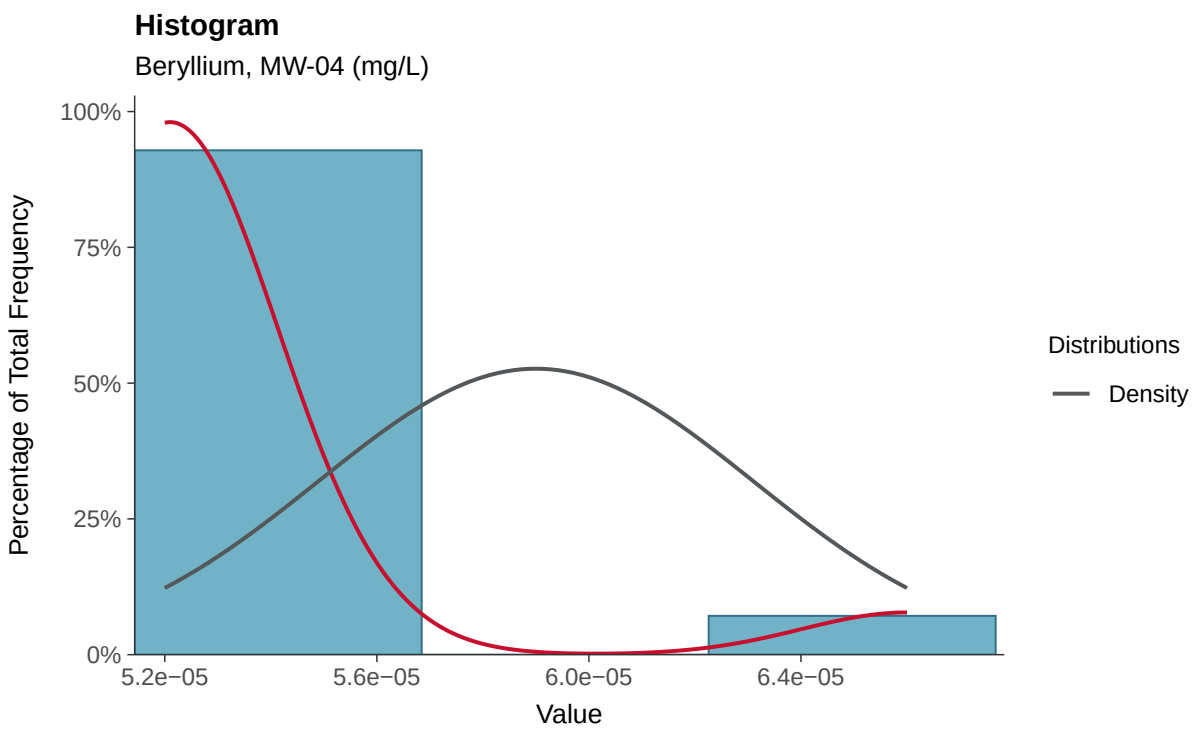
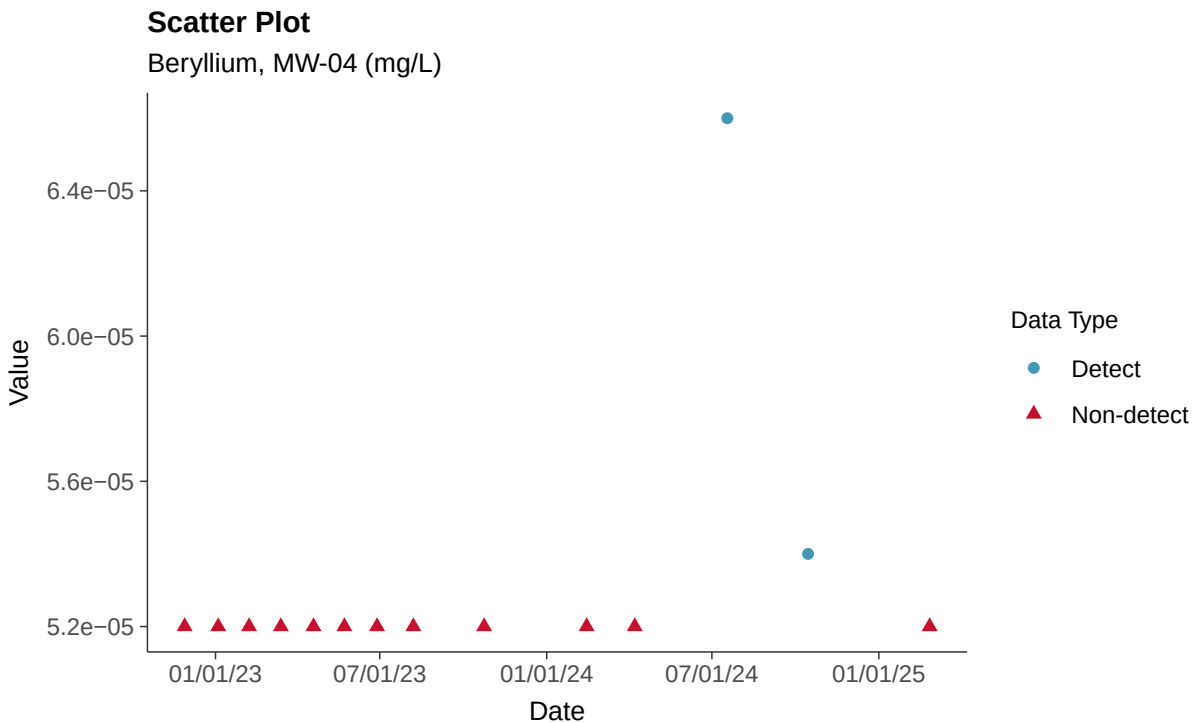


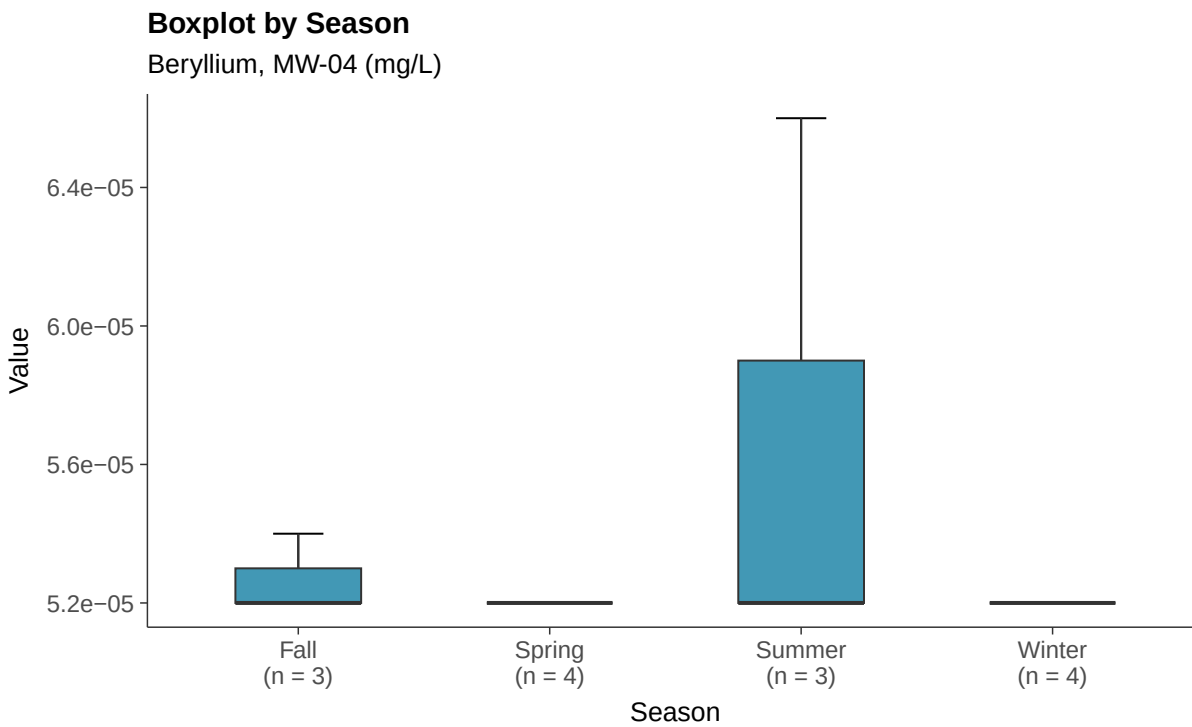
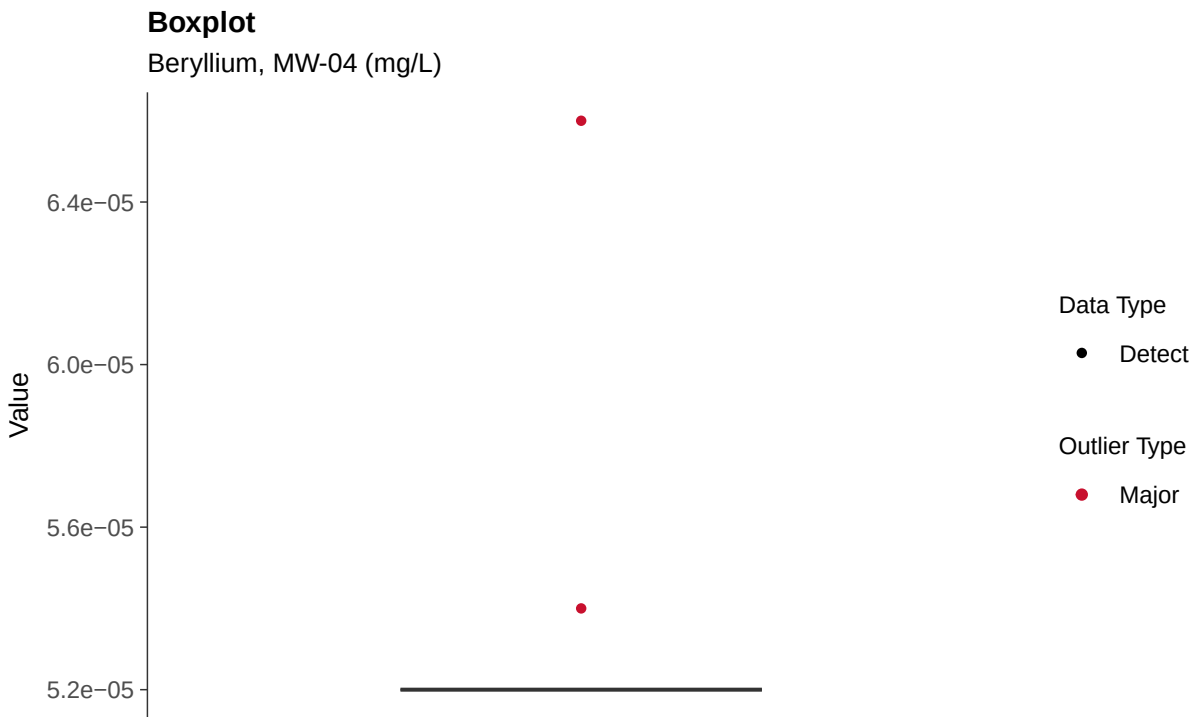




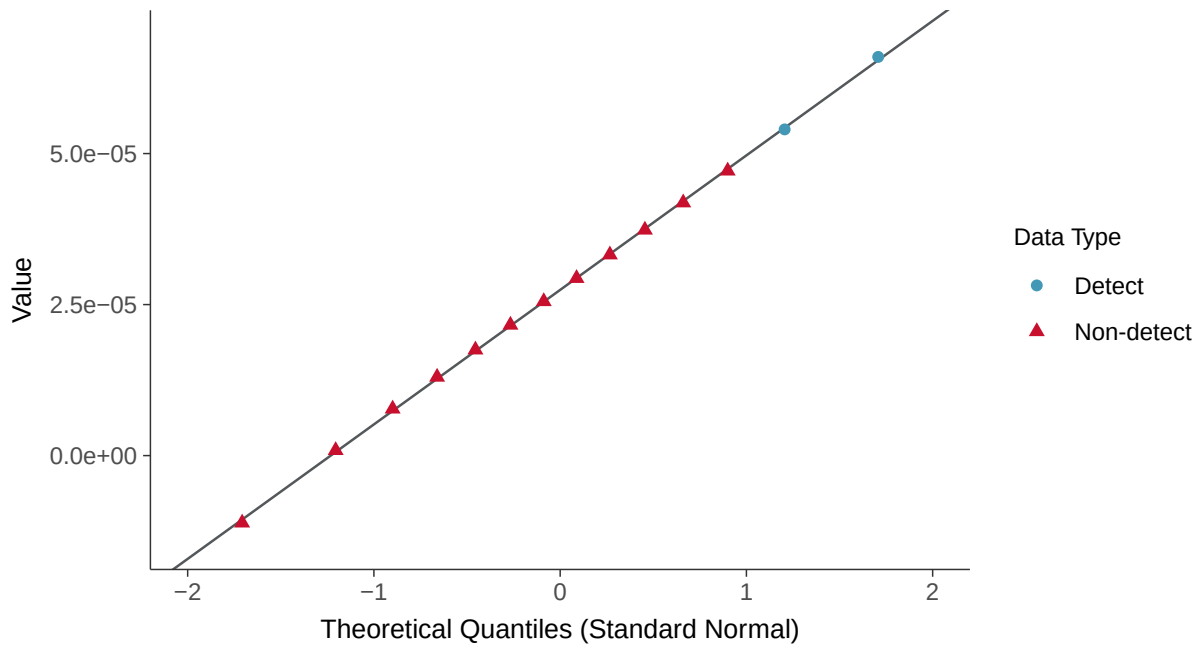
Appendix IV: Beryllium, MW-04

ID: 14_2_4_104

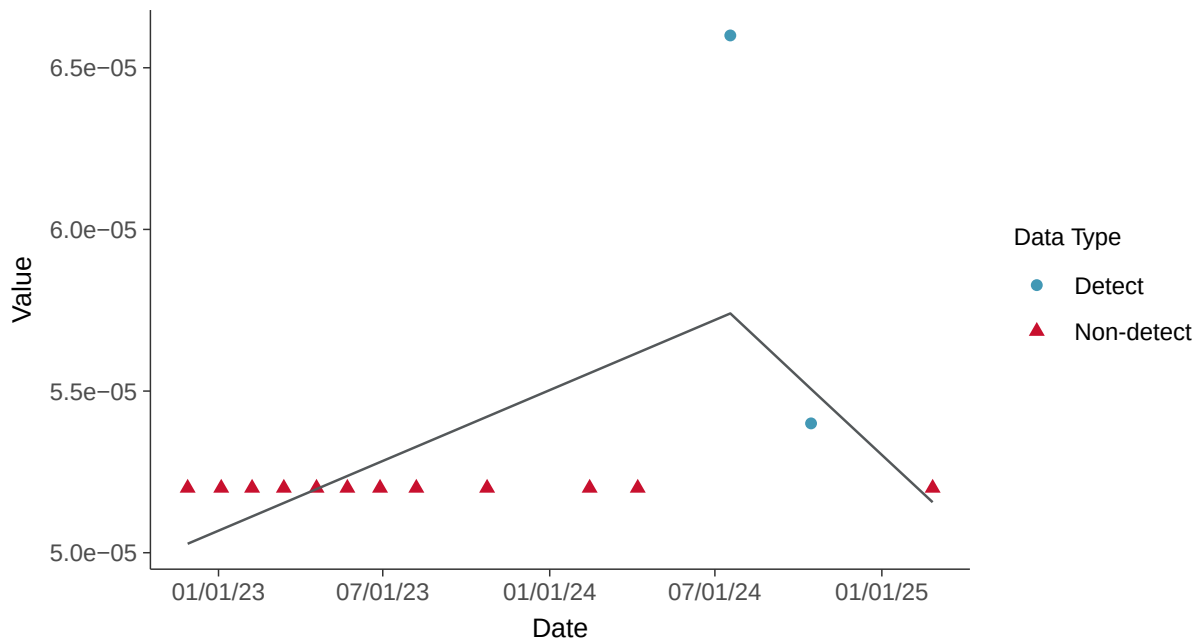


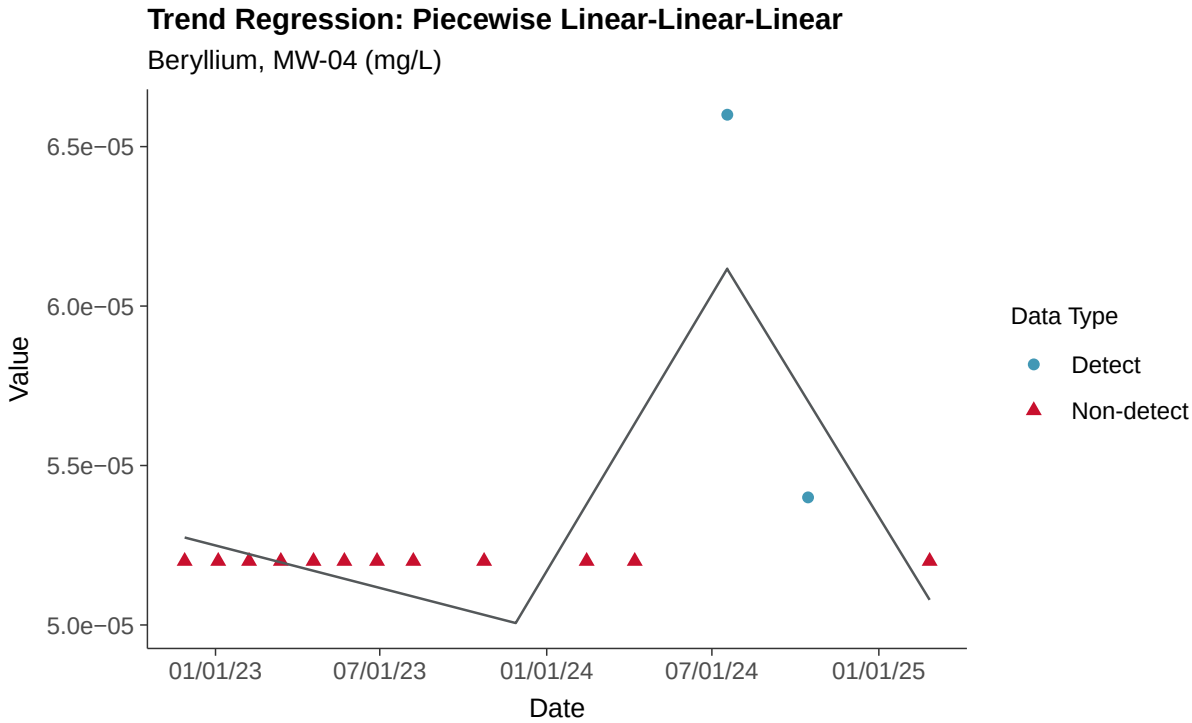


Beryllium, MW-04 (mg/L)



Beryllium, MW-04 (mg/L)

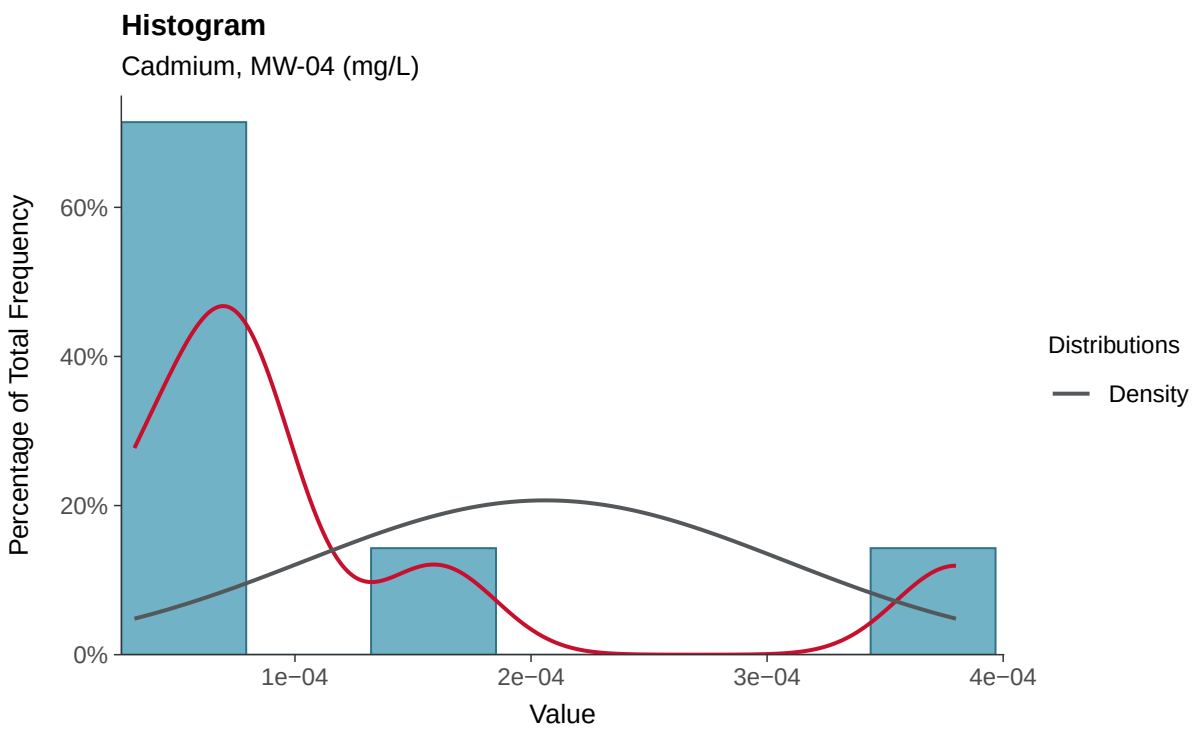
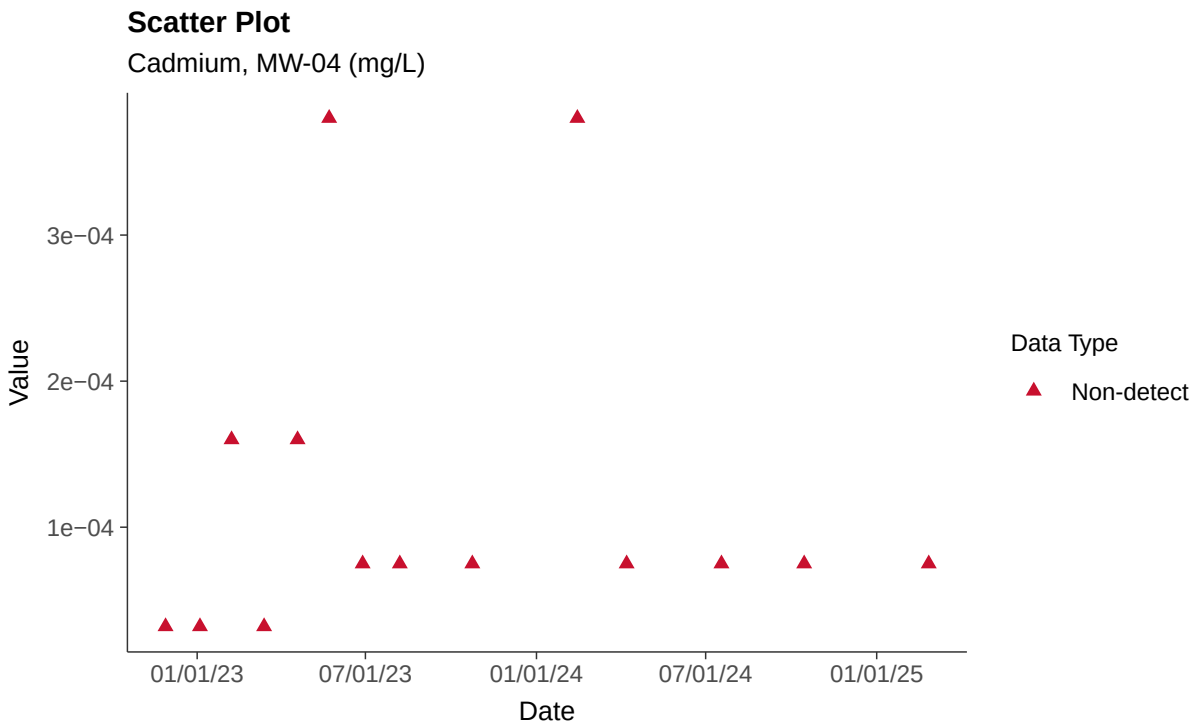


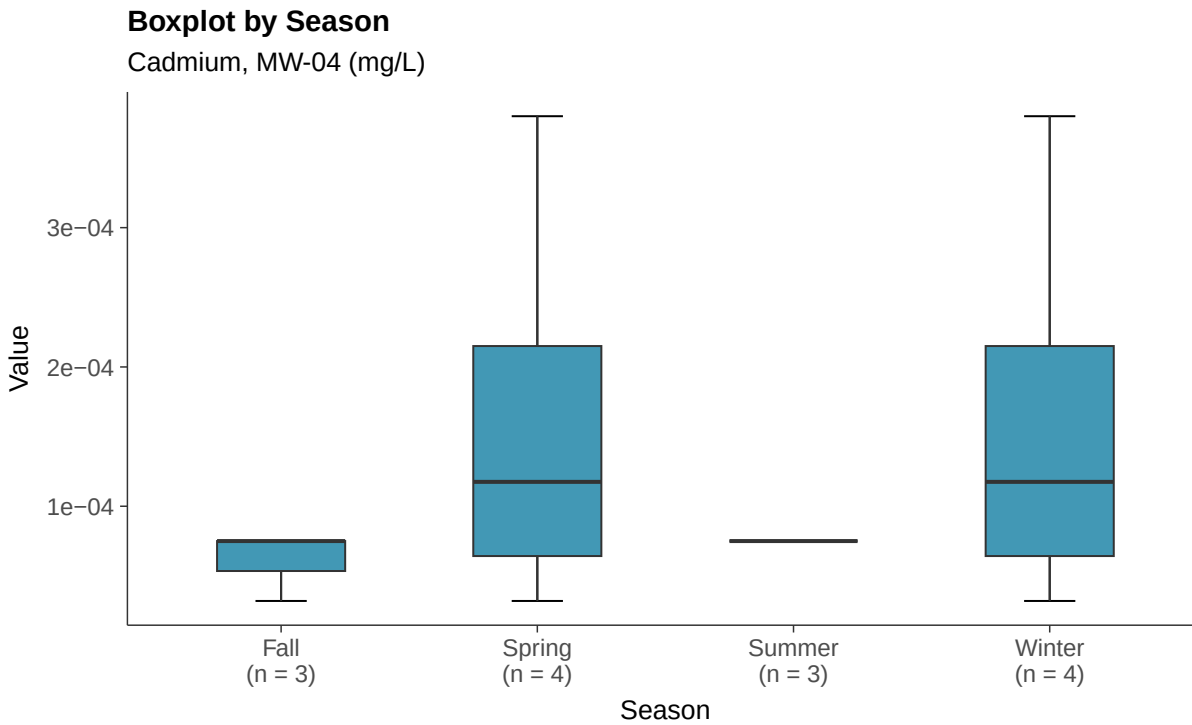
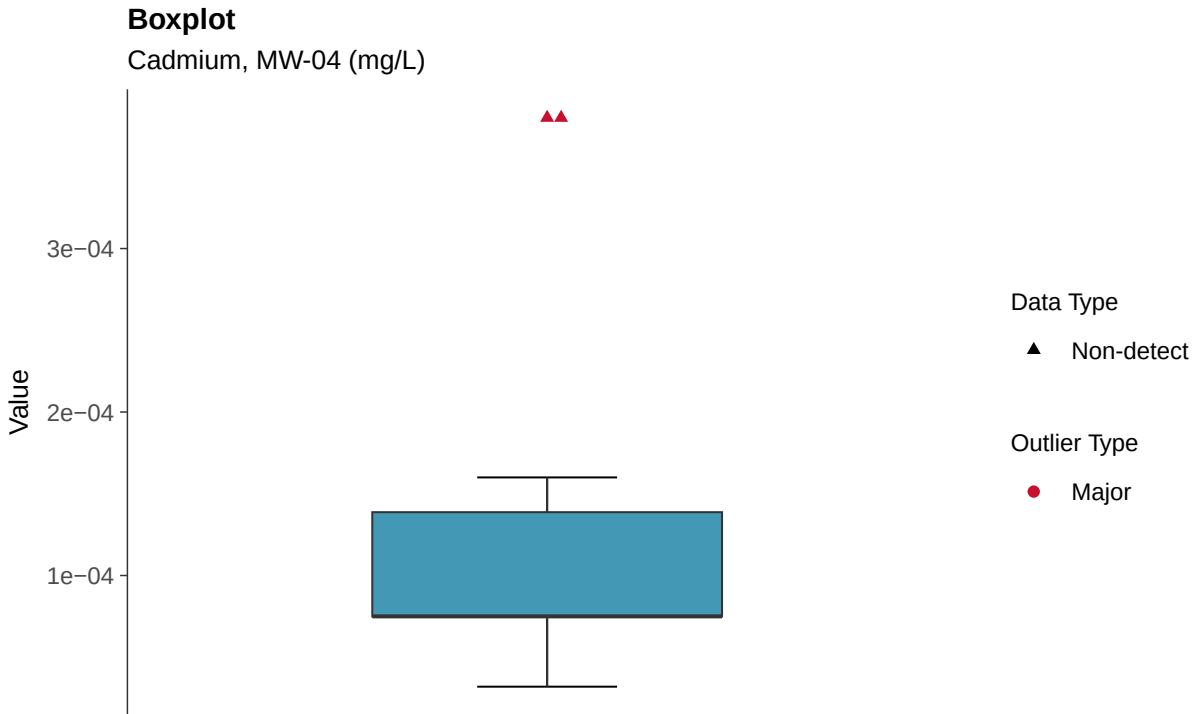


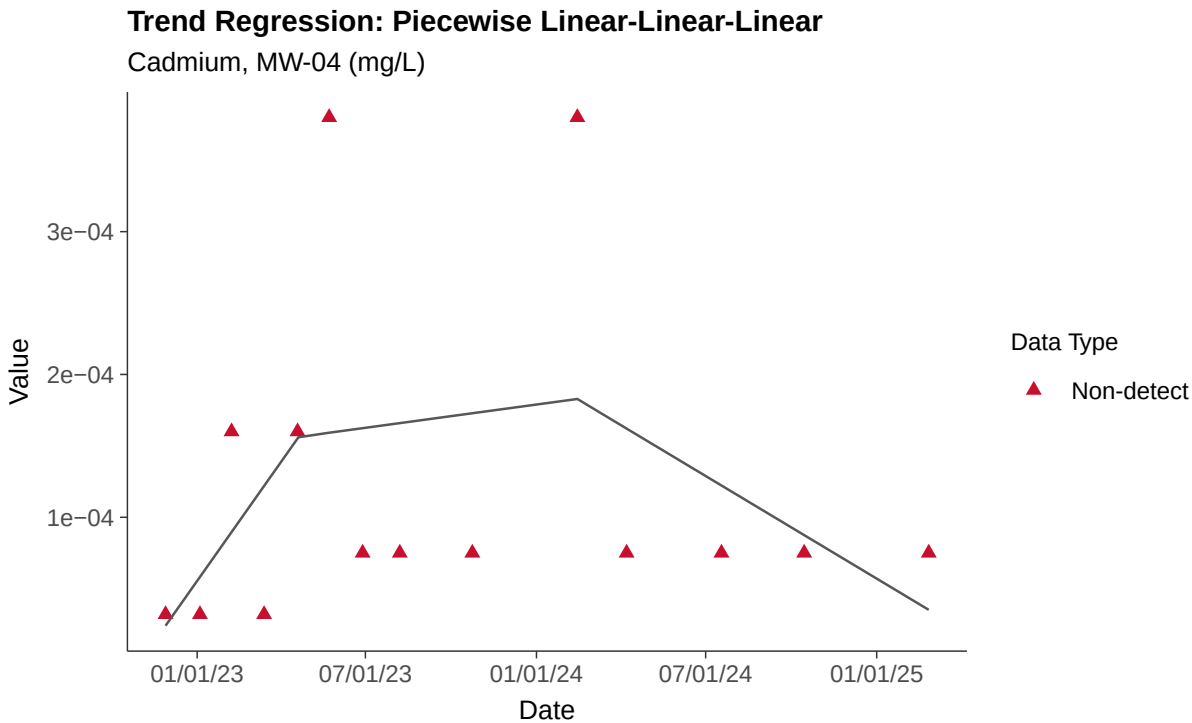
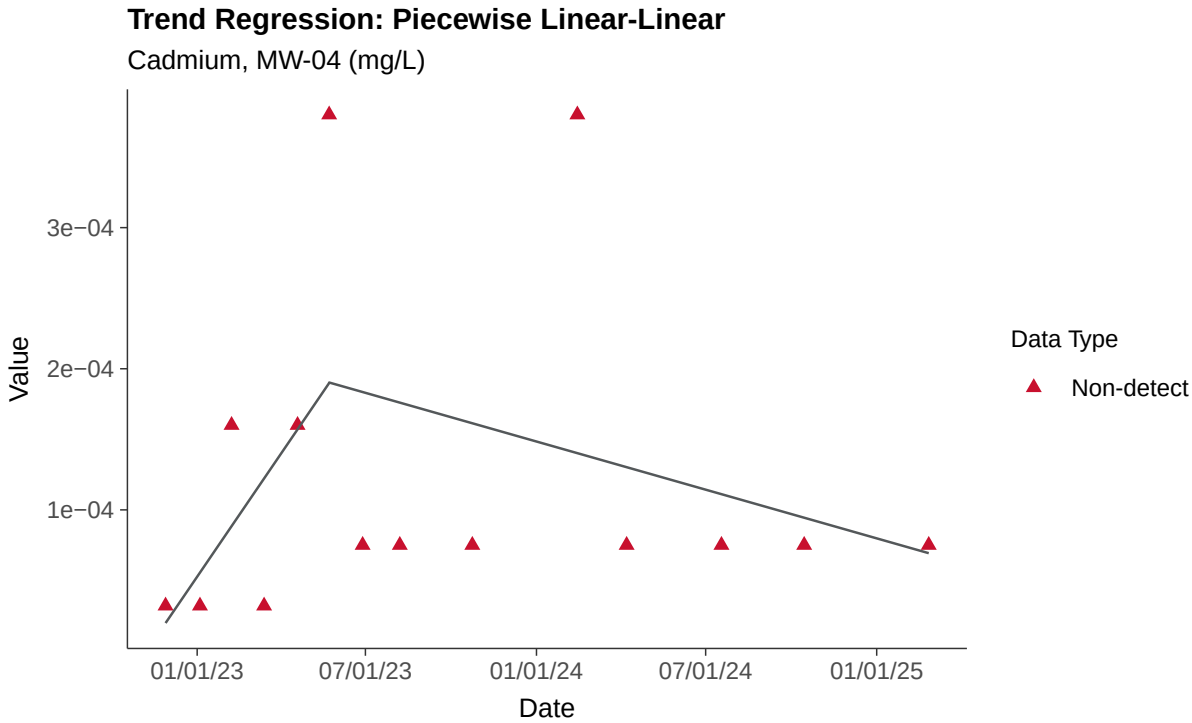


Appendix IV: Cadmium, MW-04

ID: 14_2_4_106



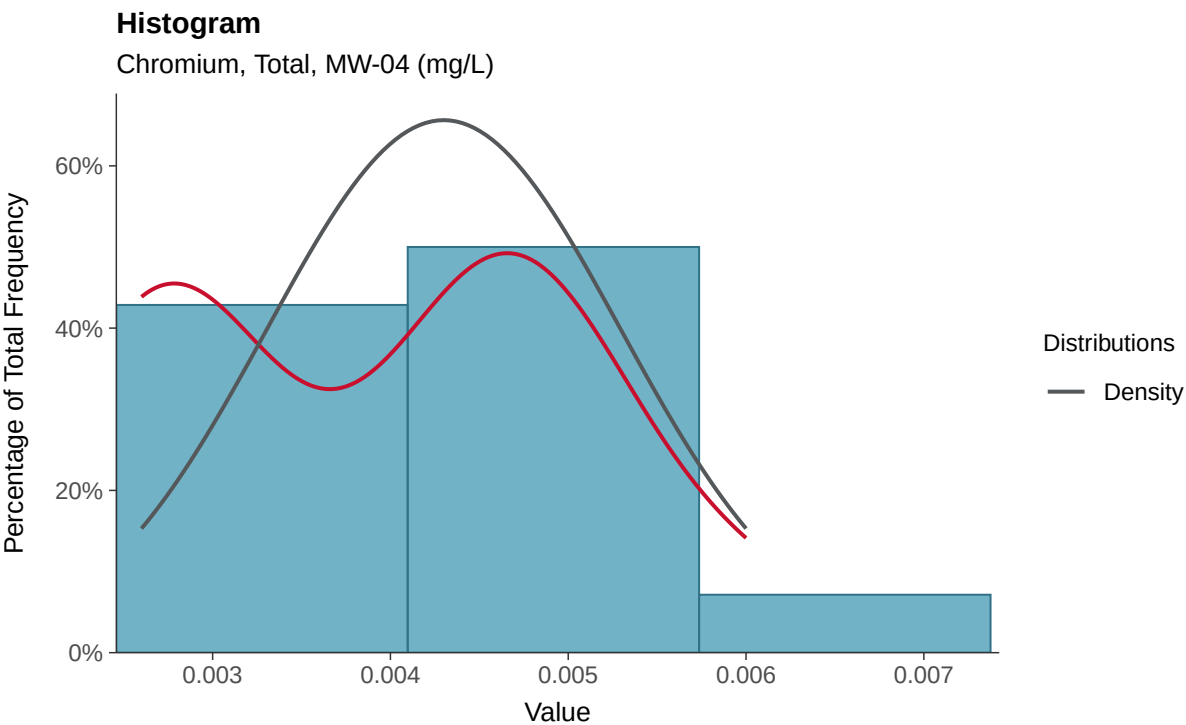
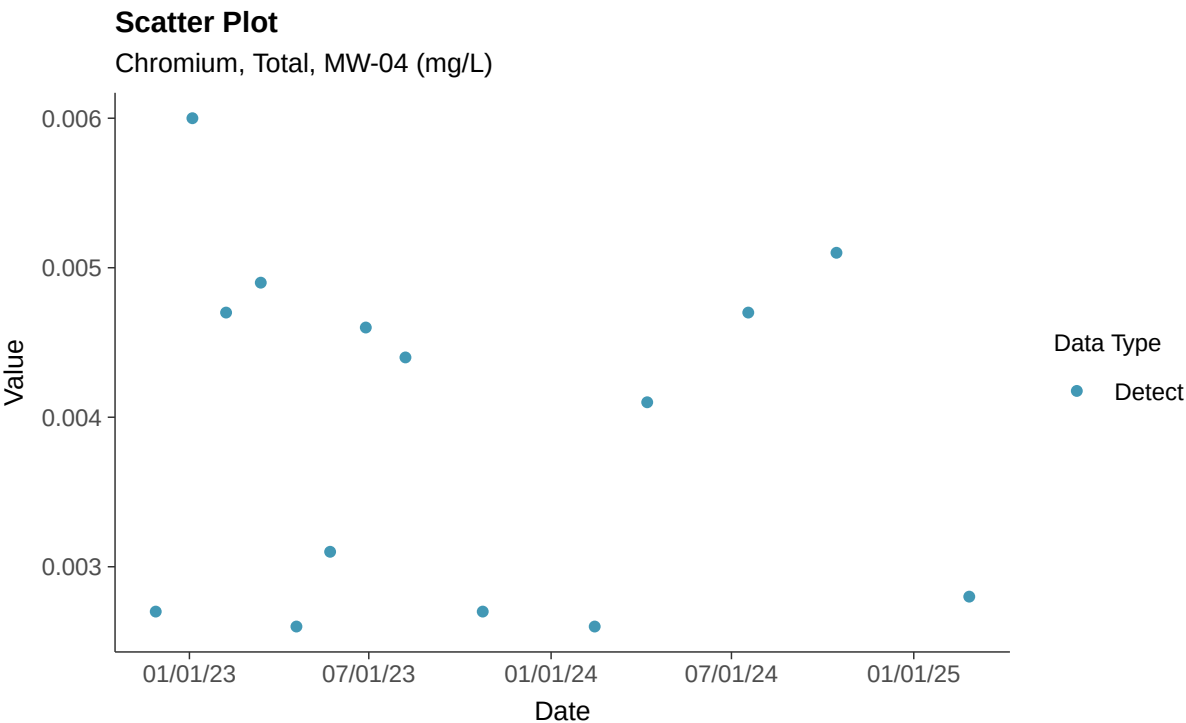


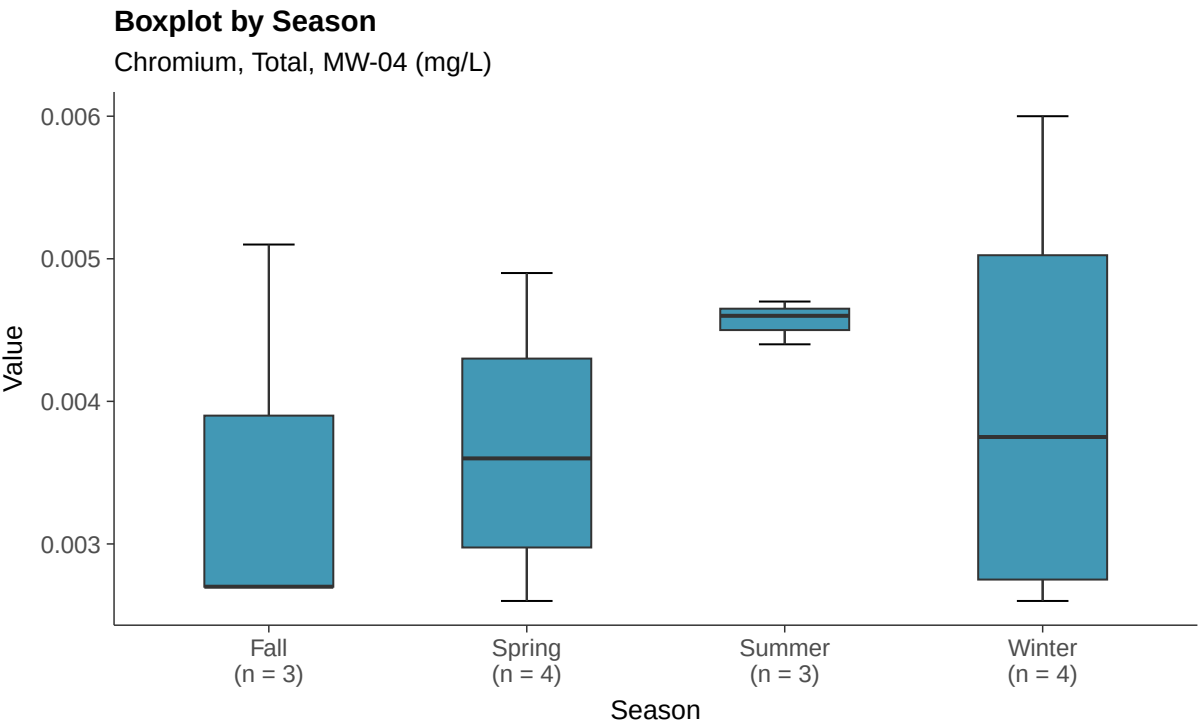
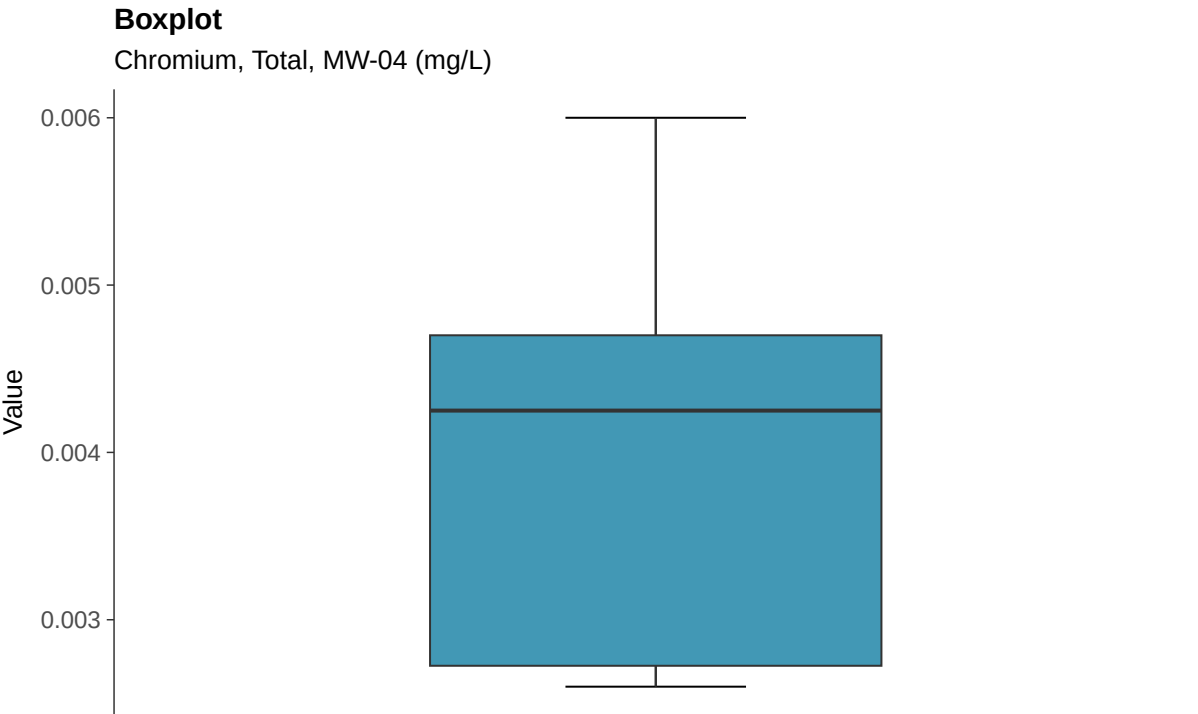


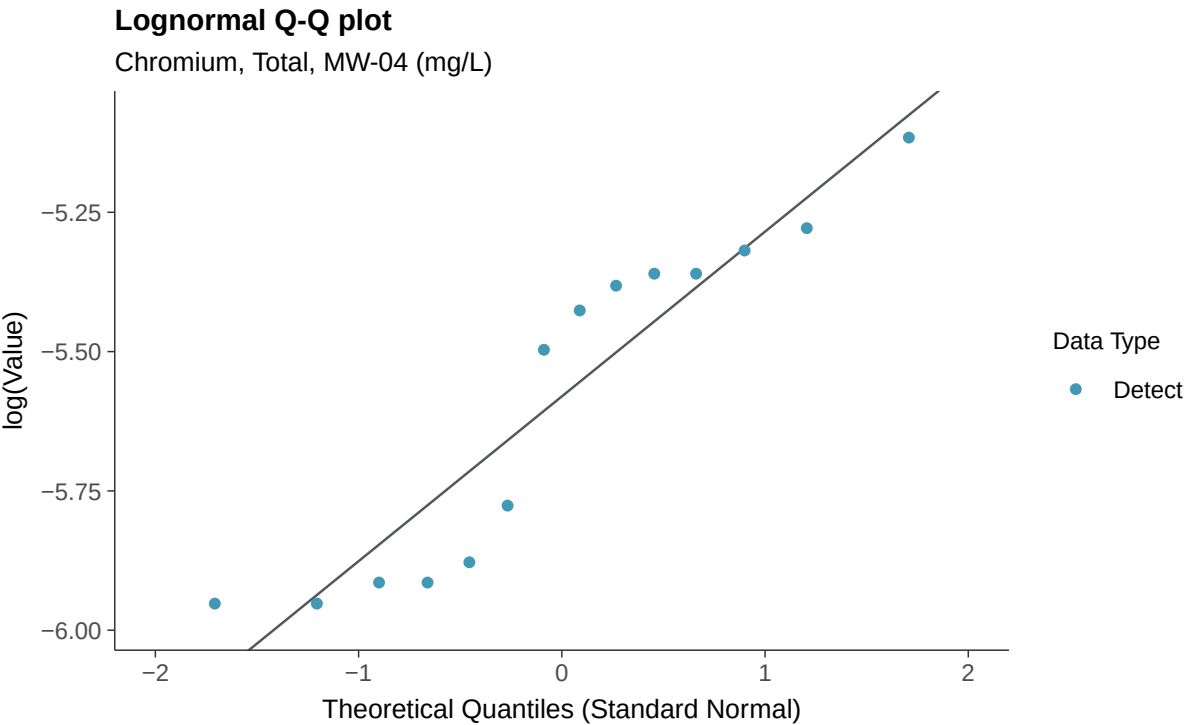
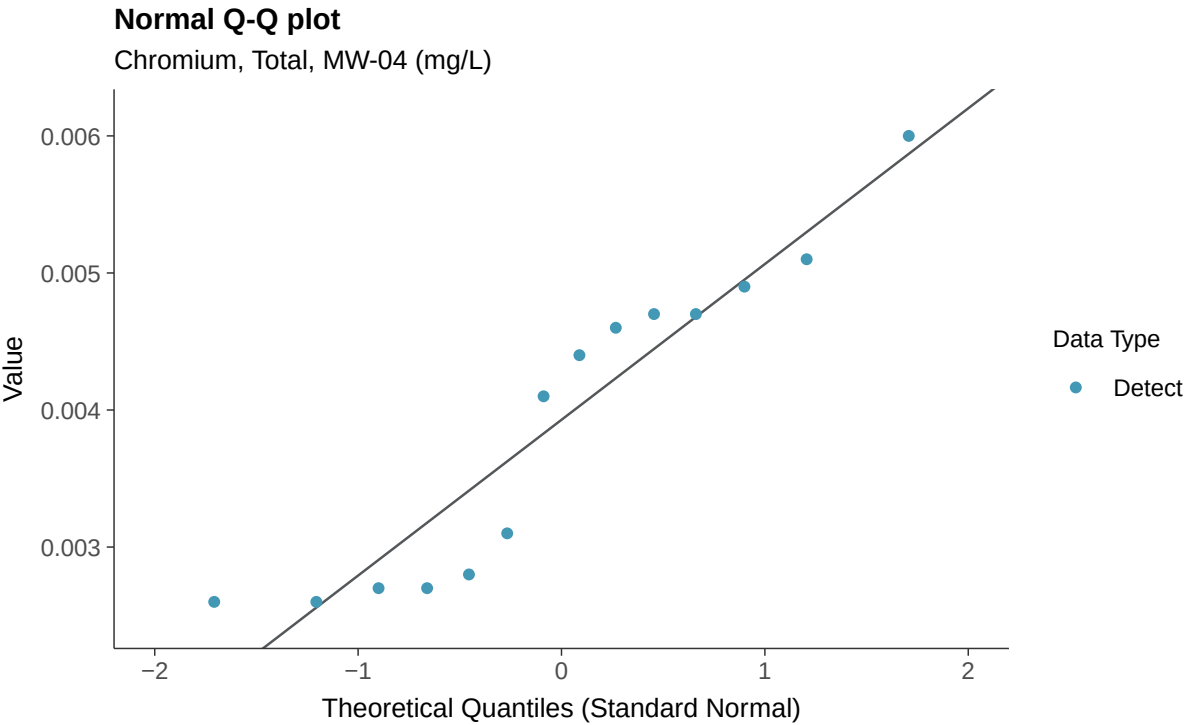


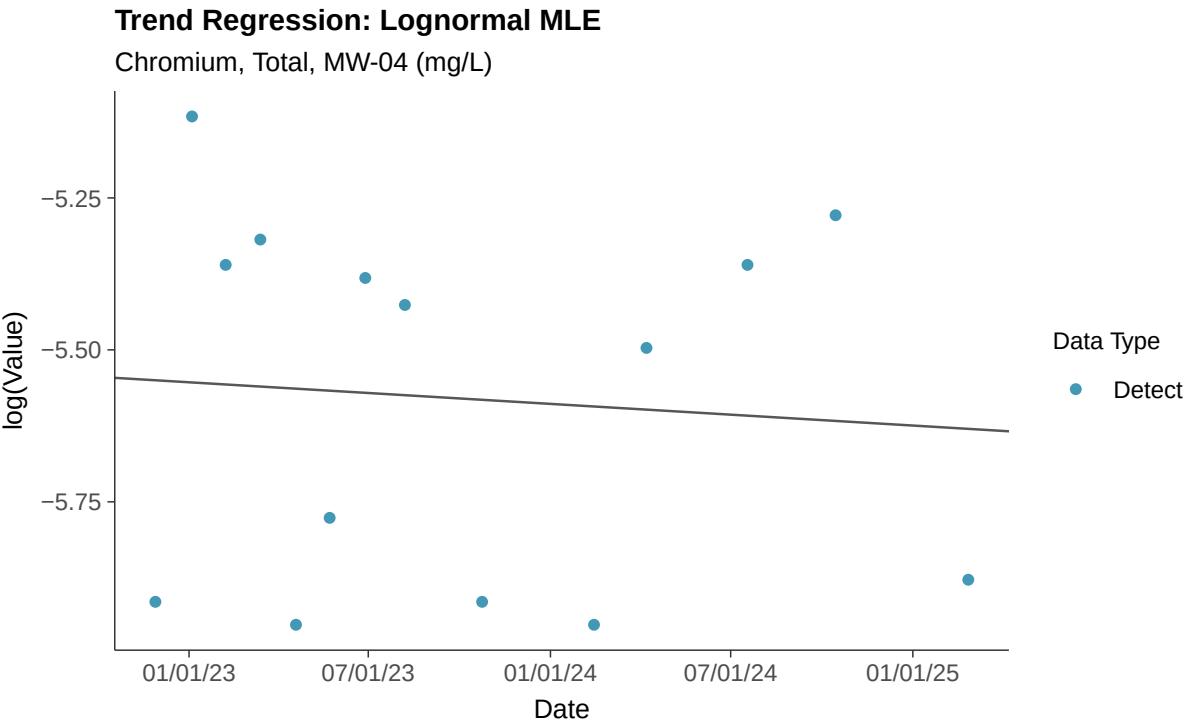
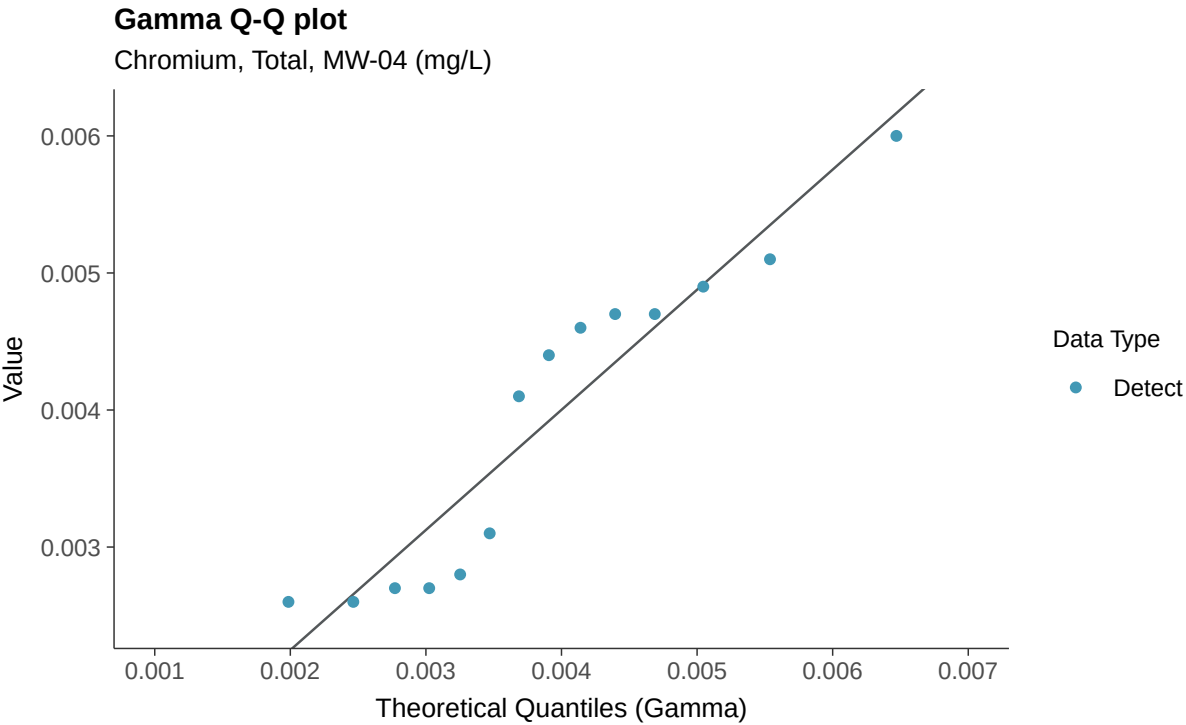
Appendix IV: Chromium, Total, MW-04

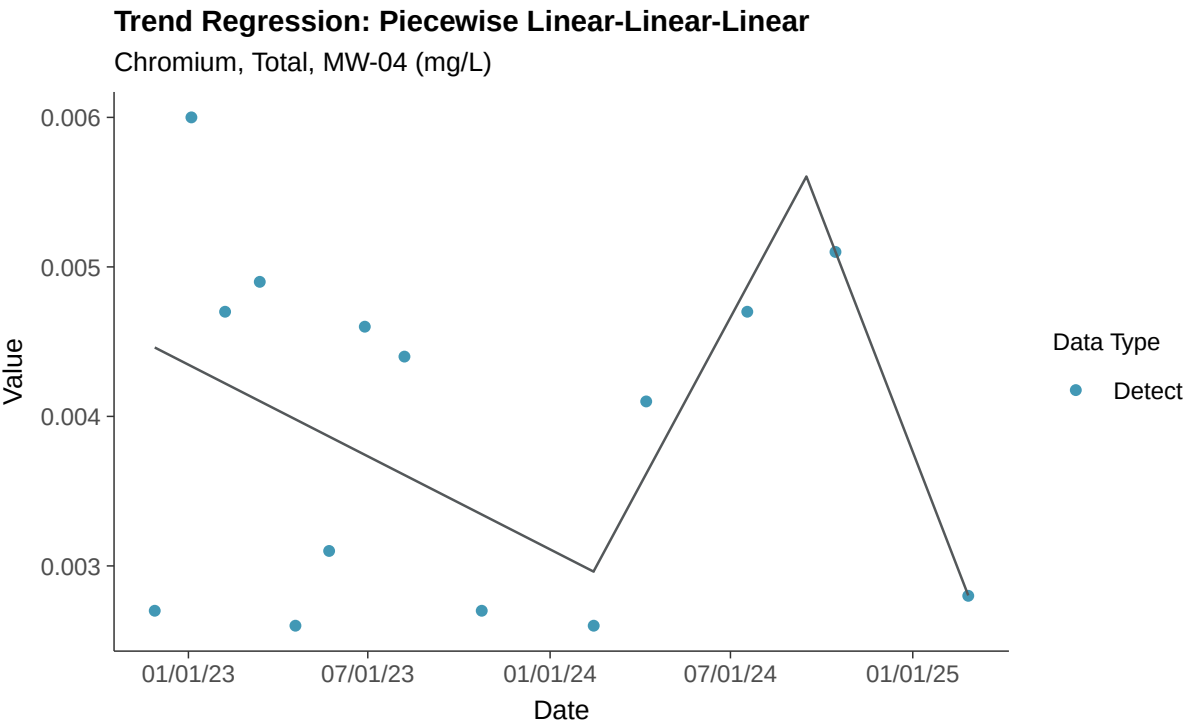
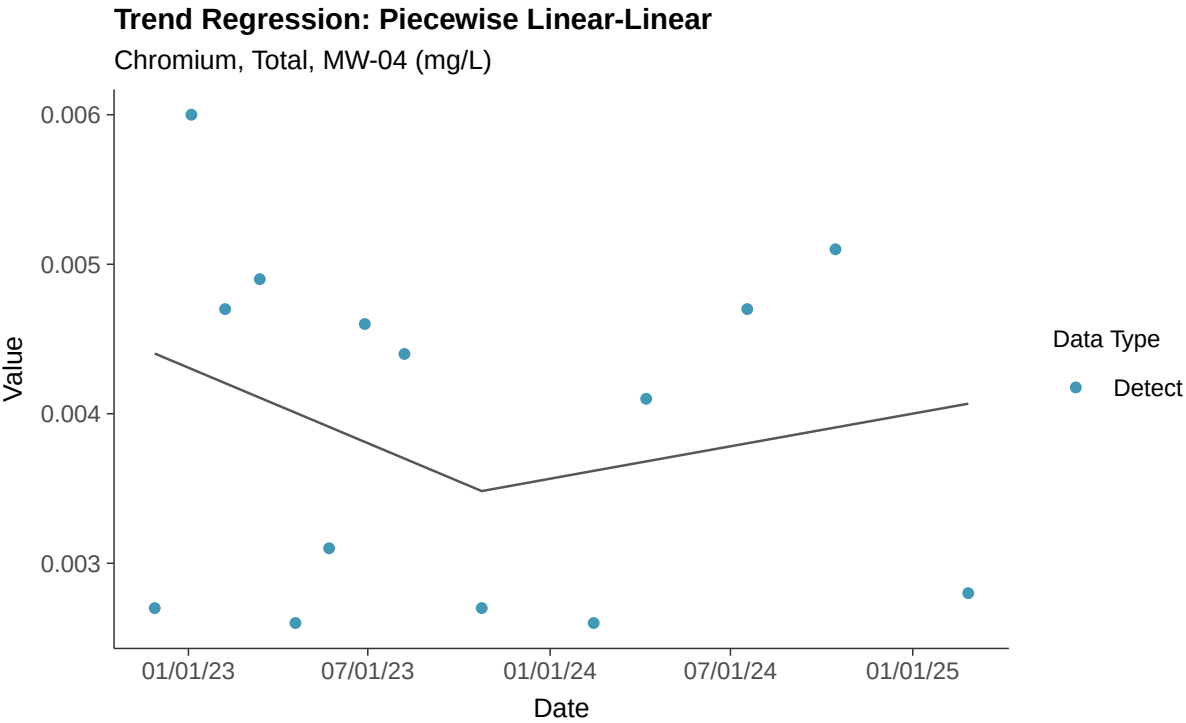
ID: 14_2_4_109







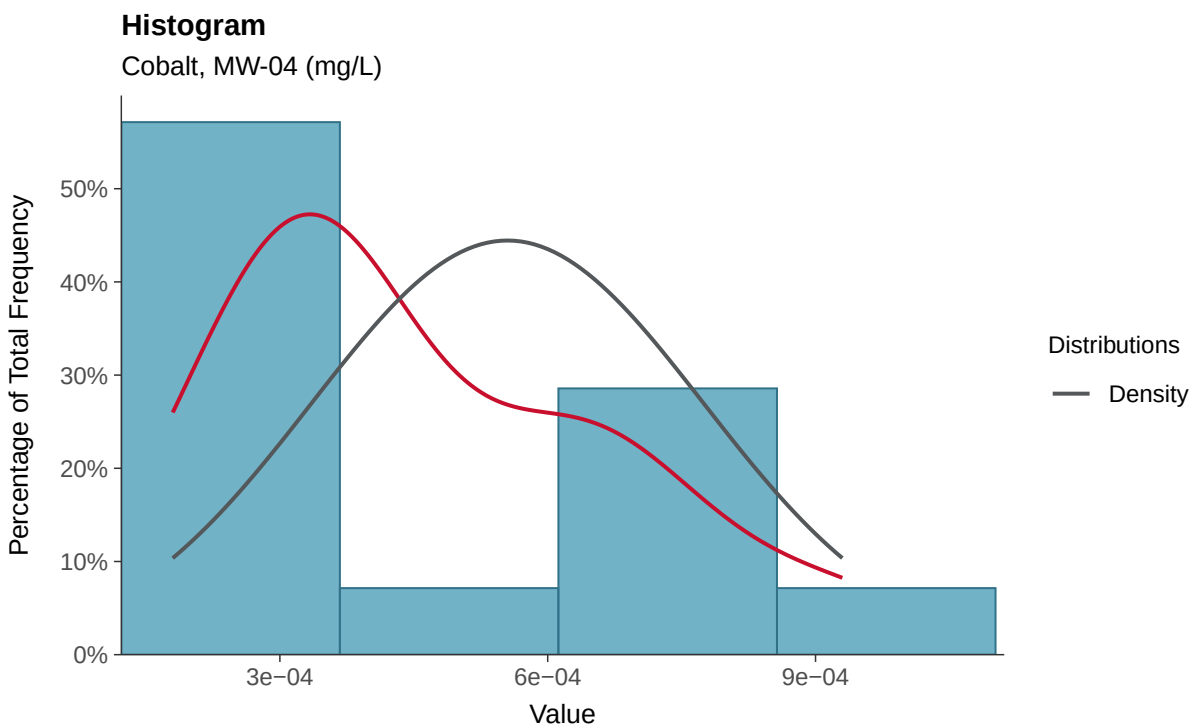
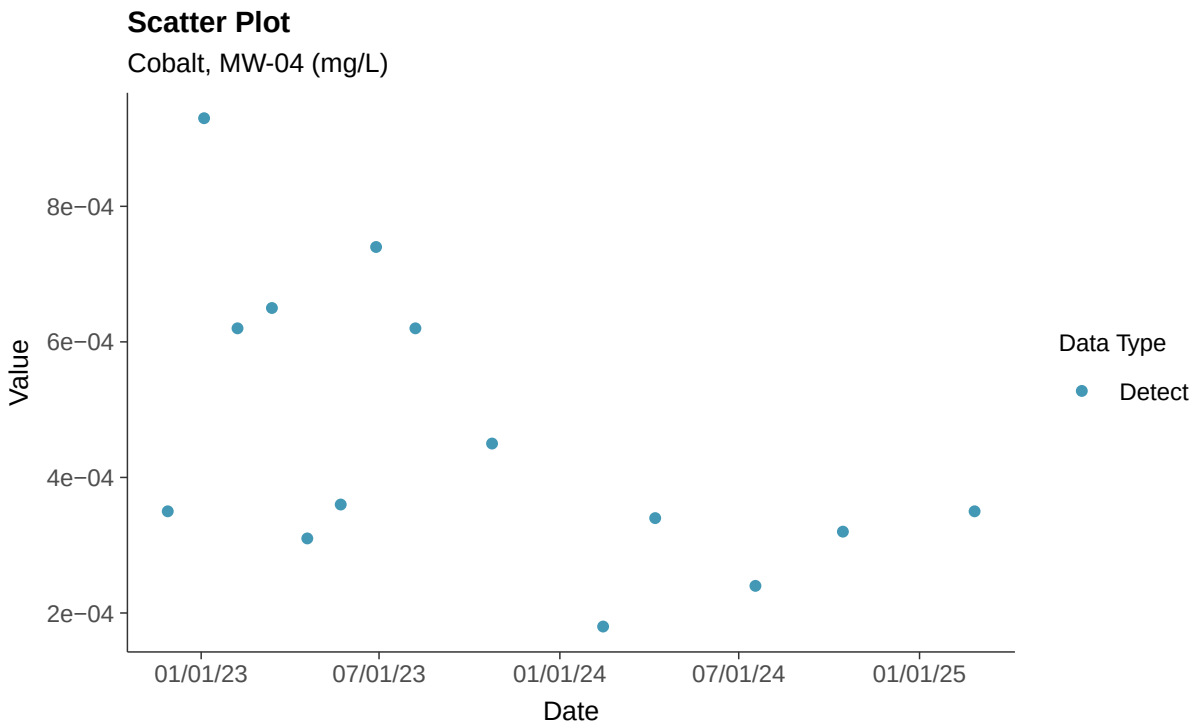


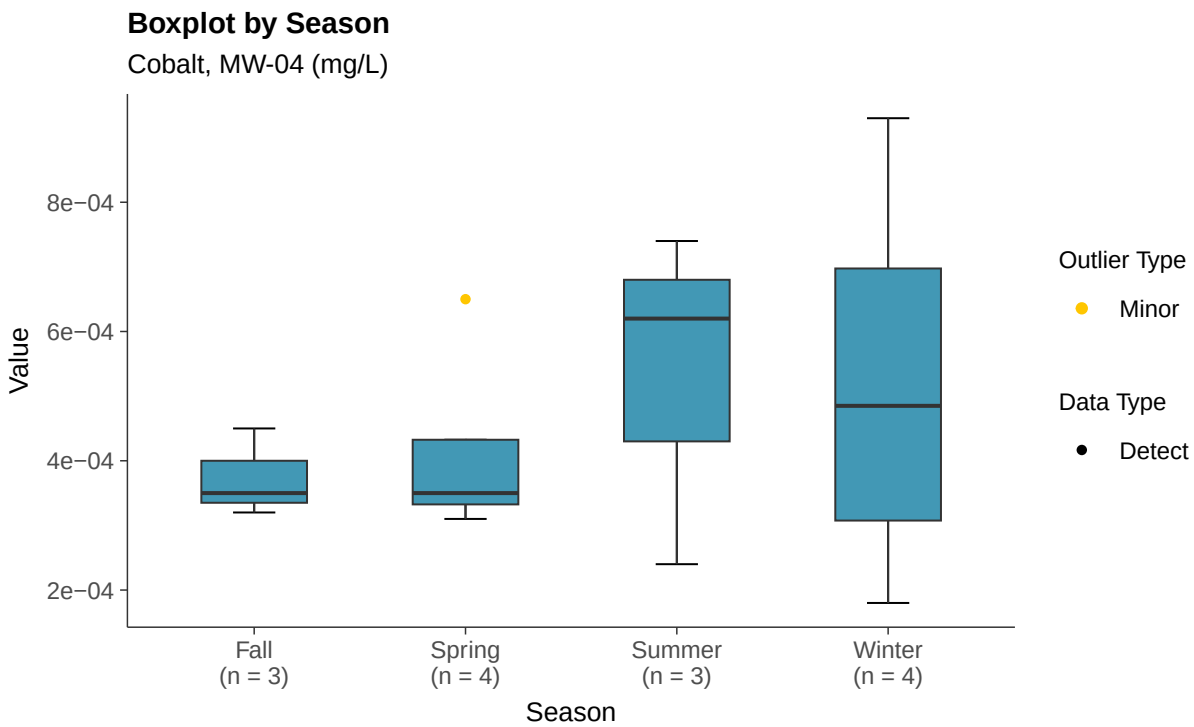
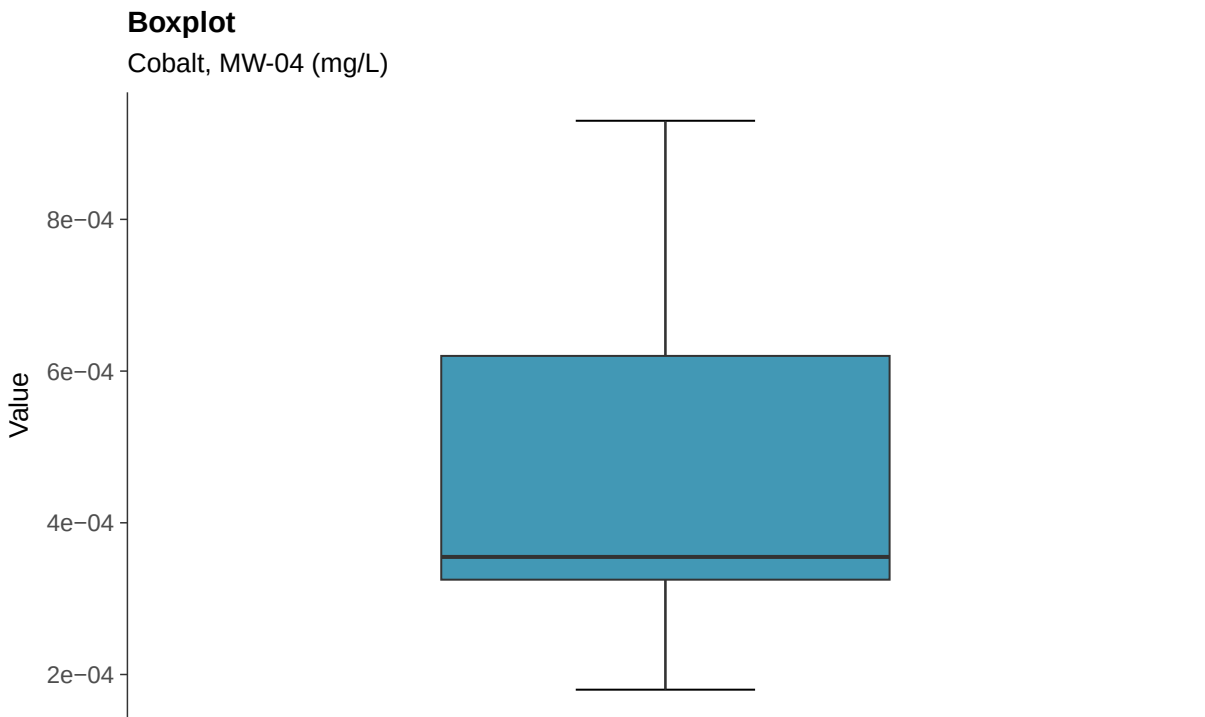


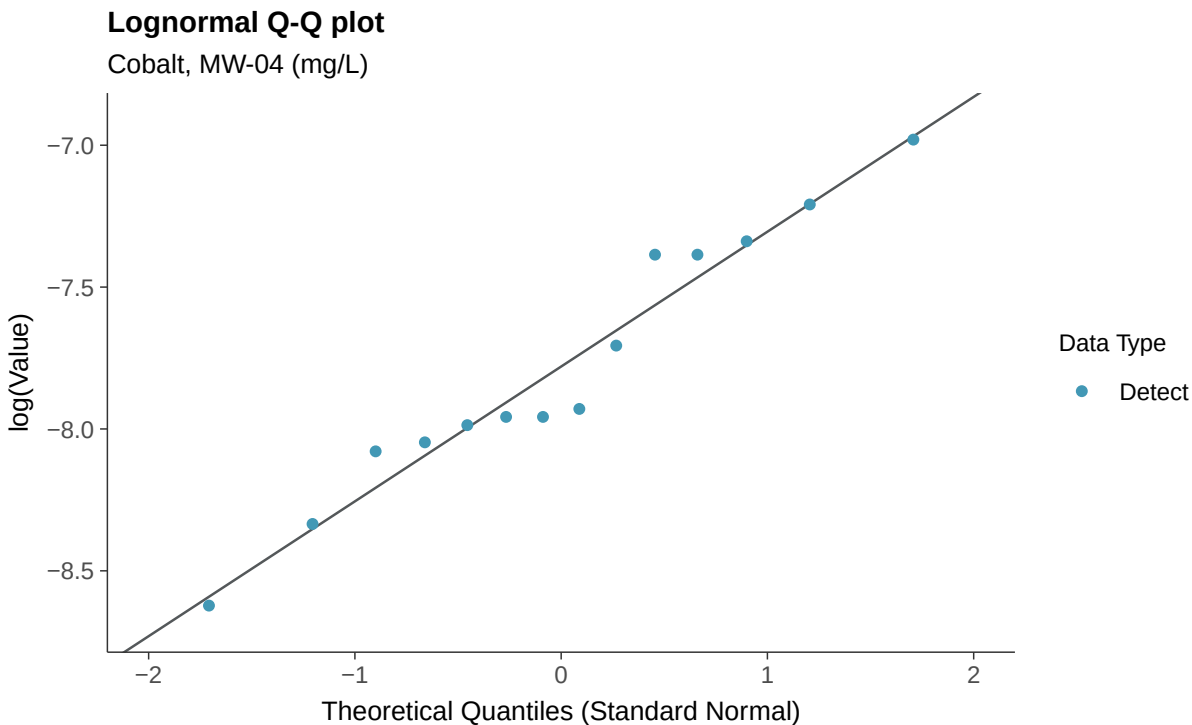
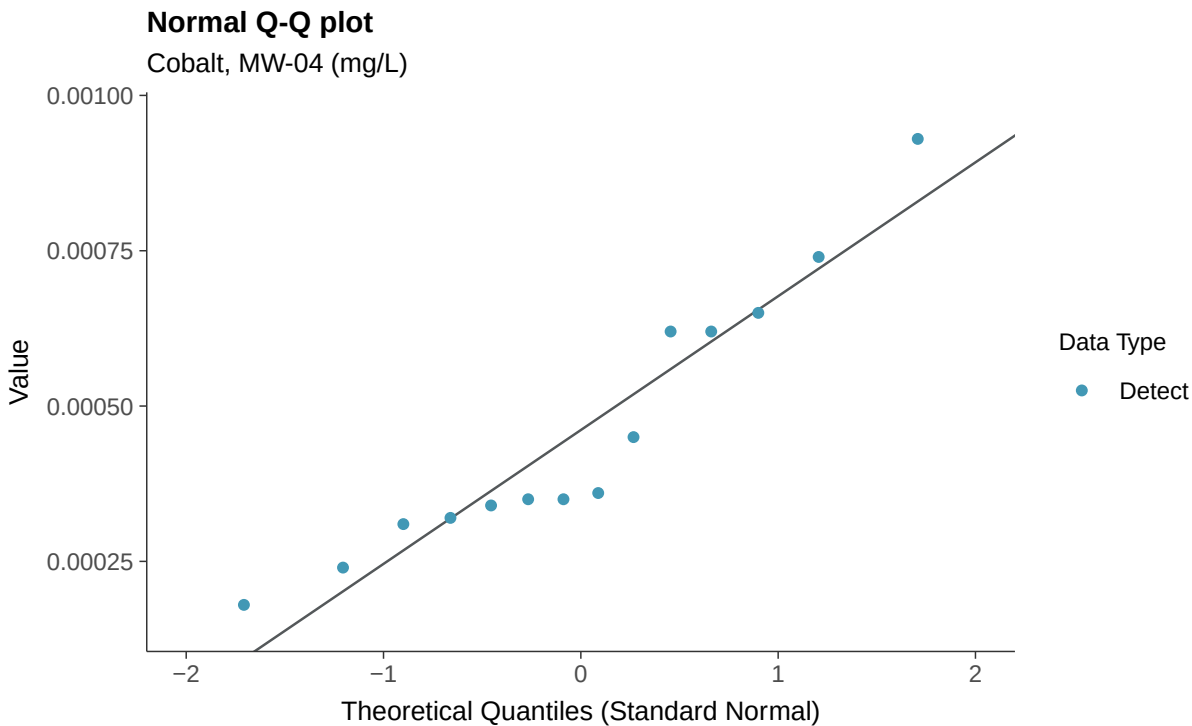


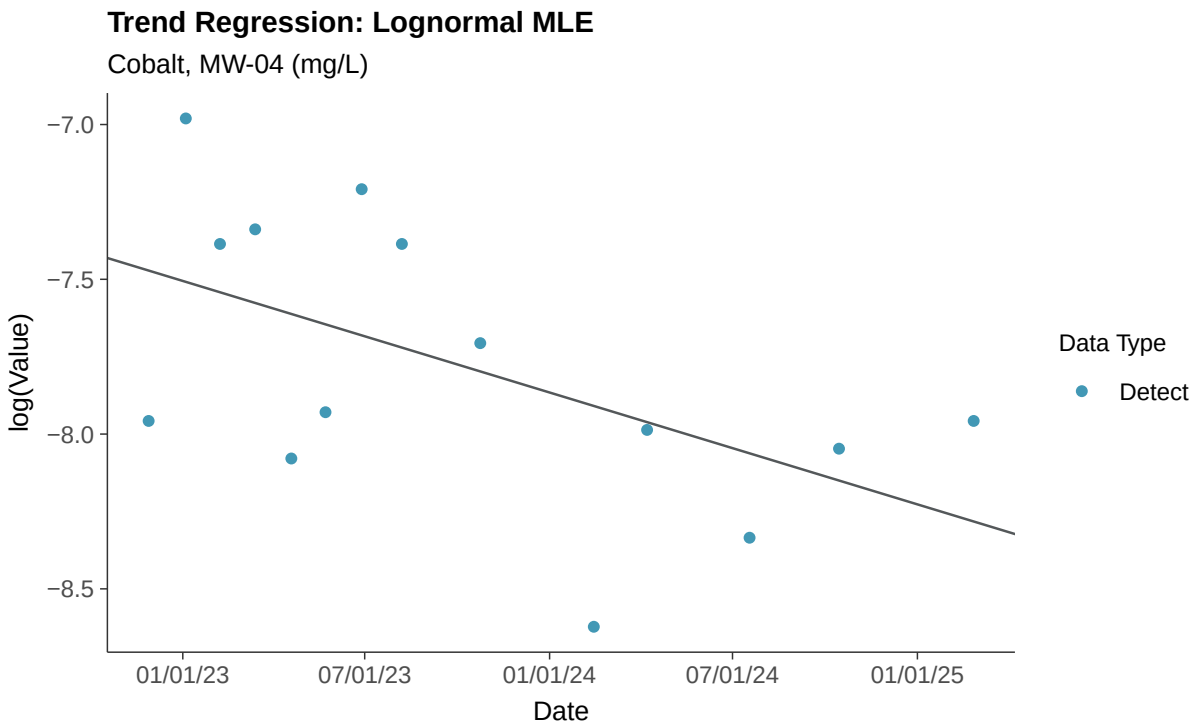
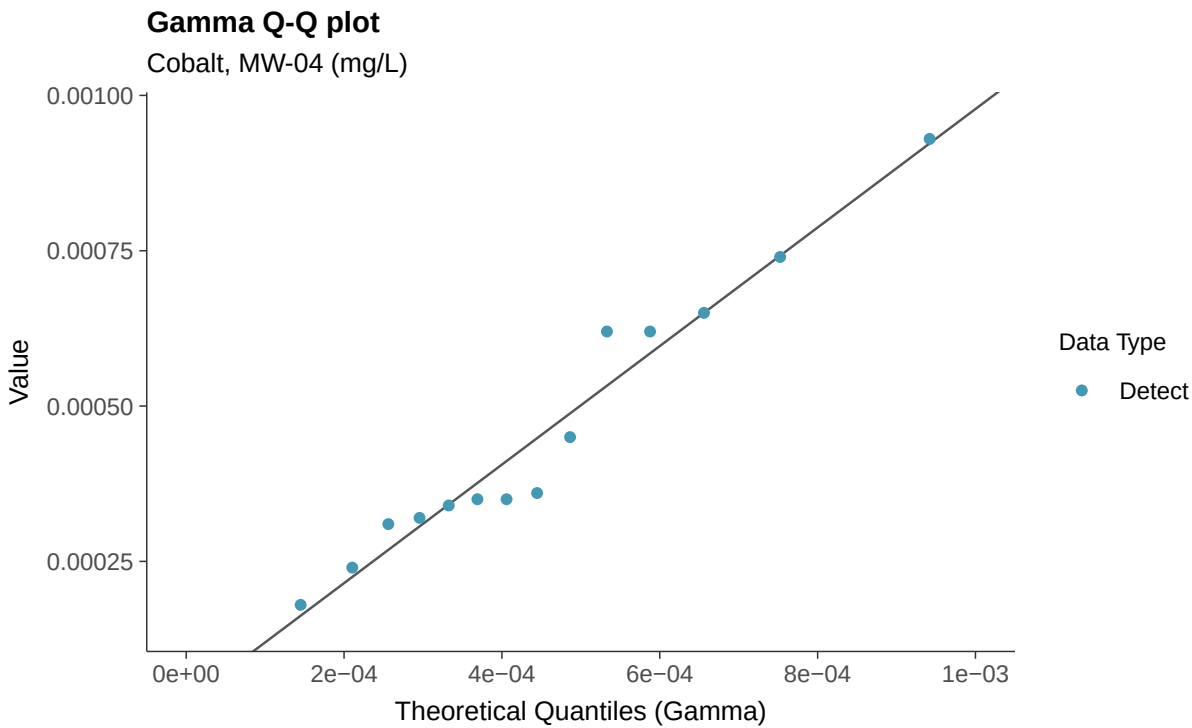
Appendix IV: Cobalt, MW-04

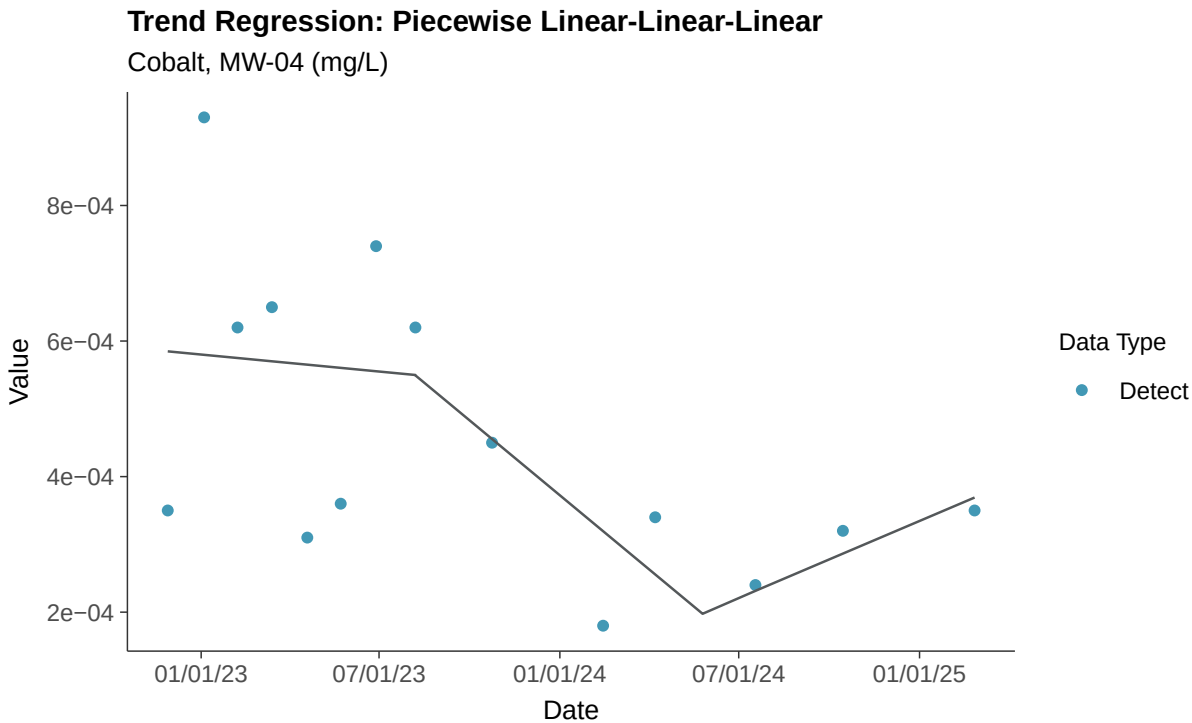
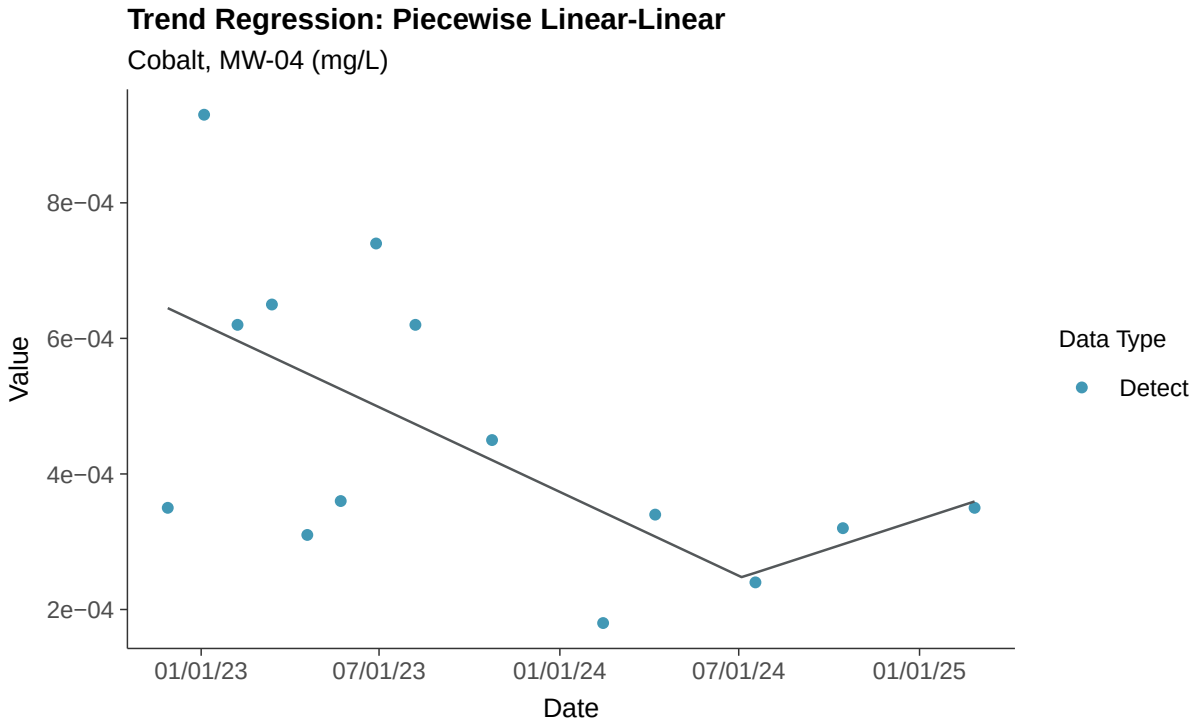
ID: 14_2_4_110







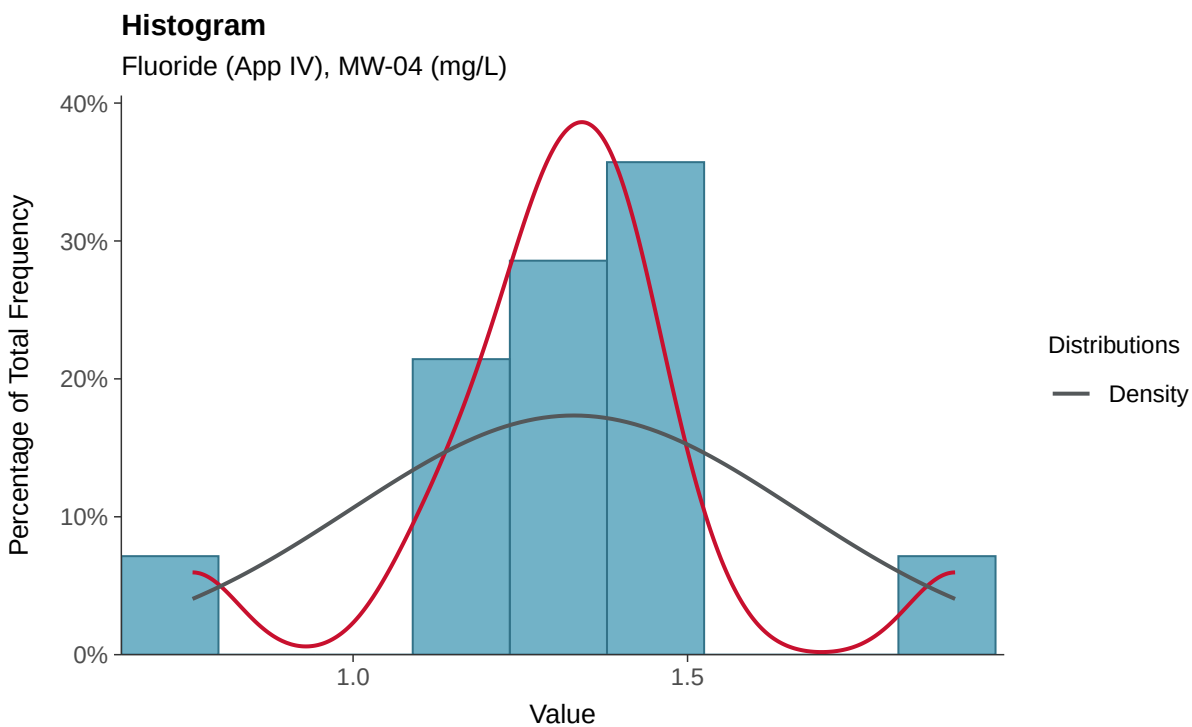
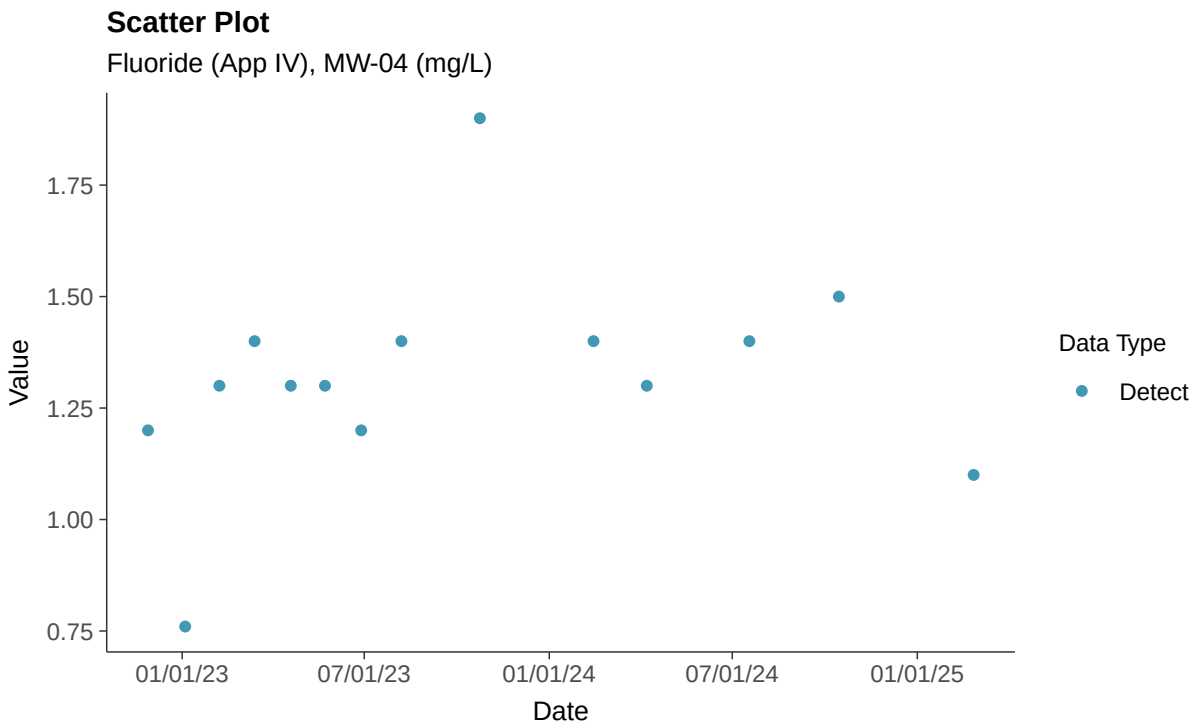


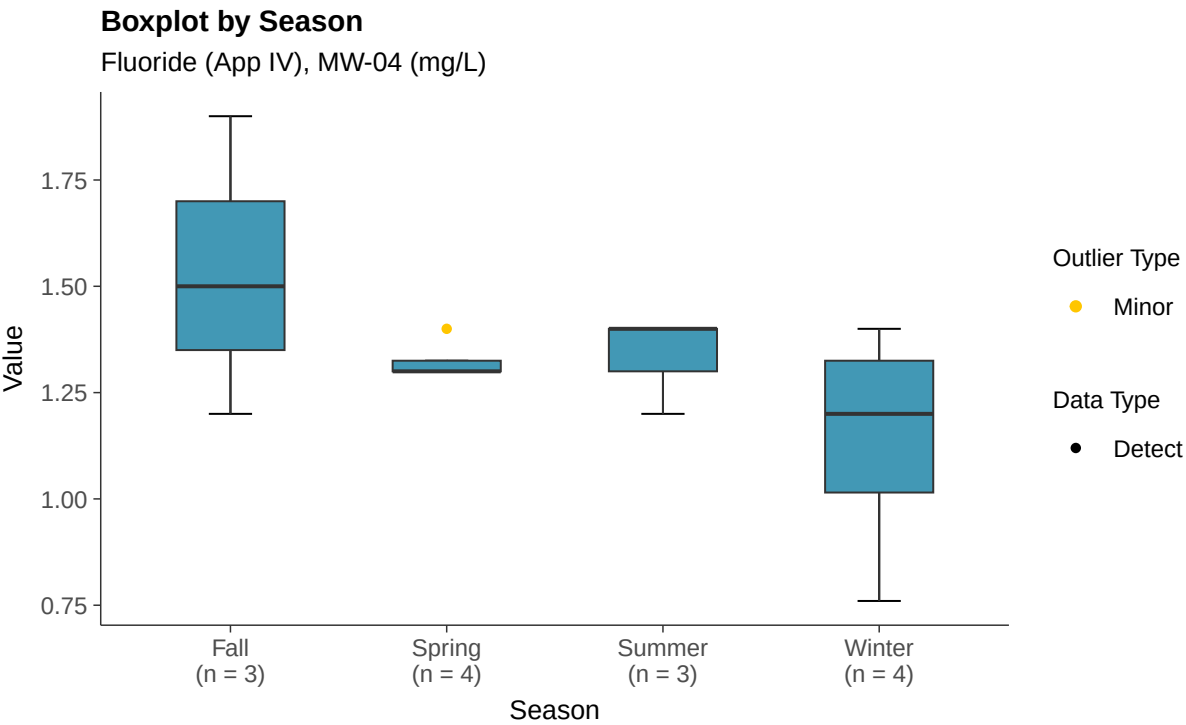
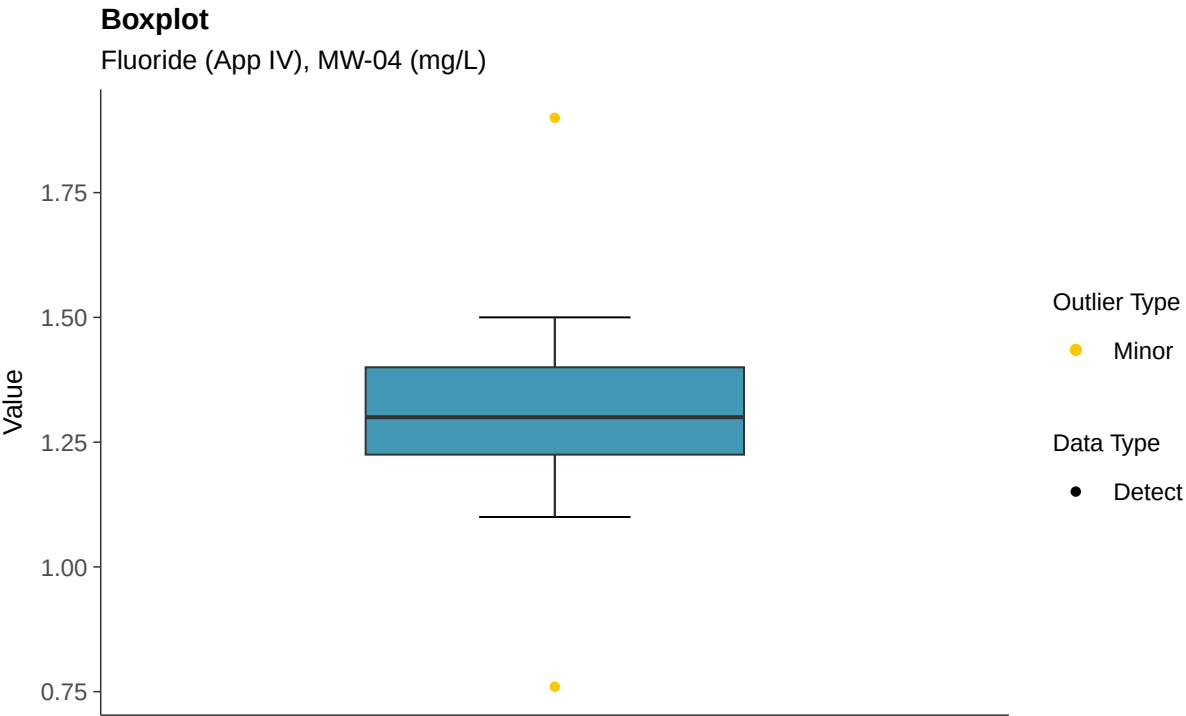




Appendix IV: Fluoride (App IV), MW-04

ID: 14_2_4_113

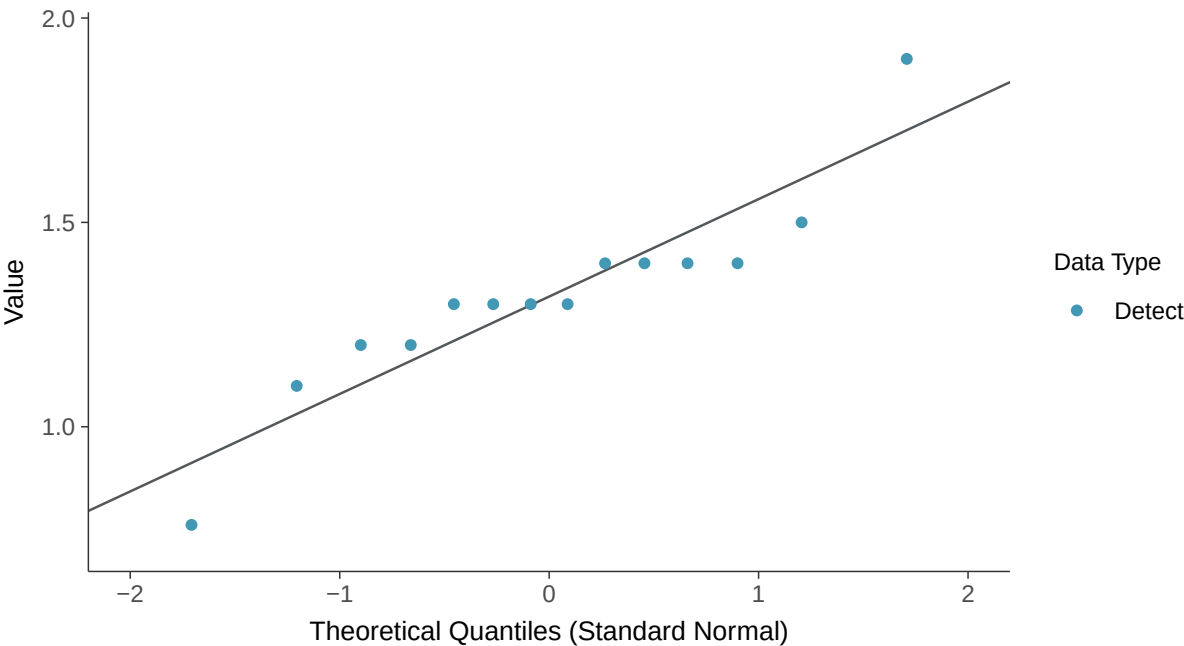






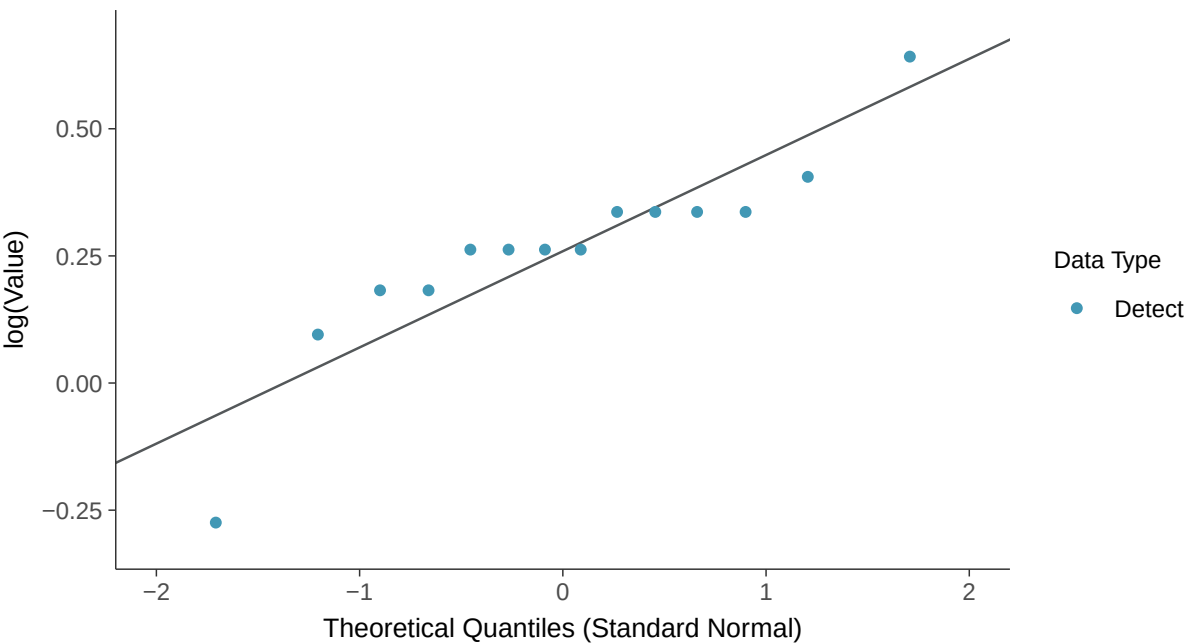
Normal Q-Q plot

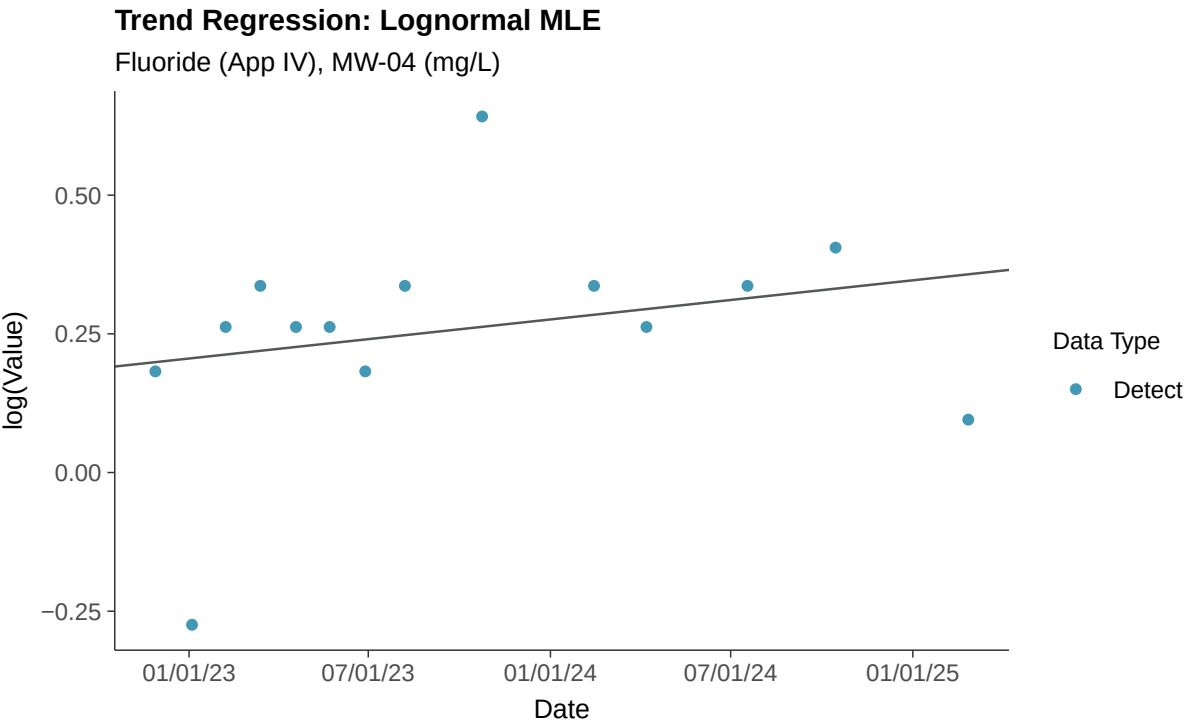
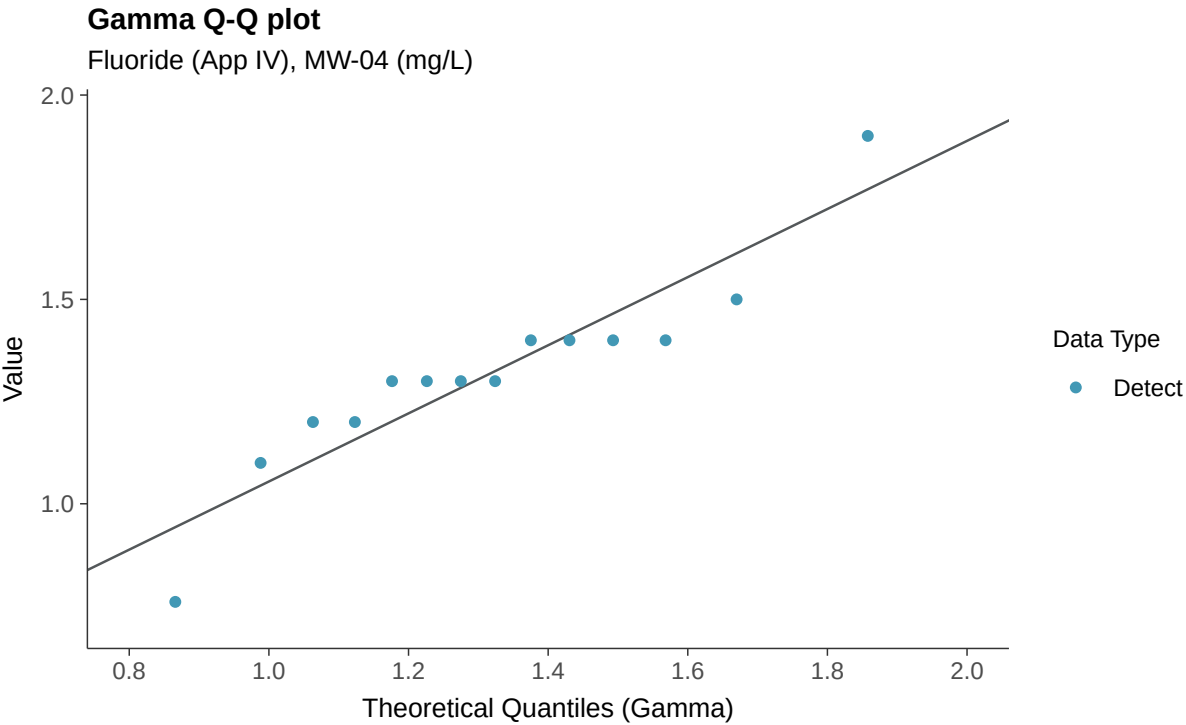
Fluoride (App IV), MW-04 (mg/L)

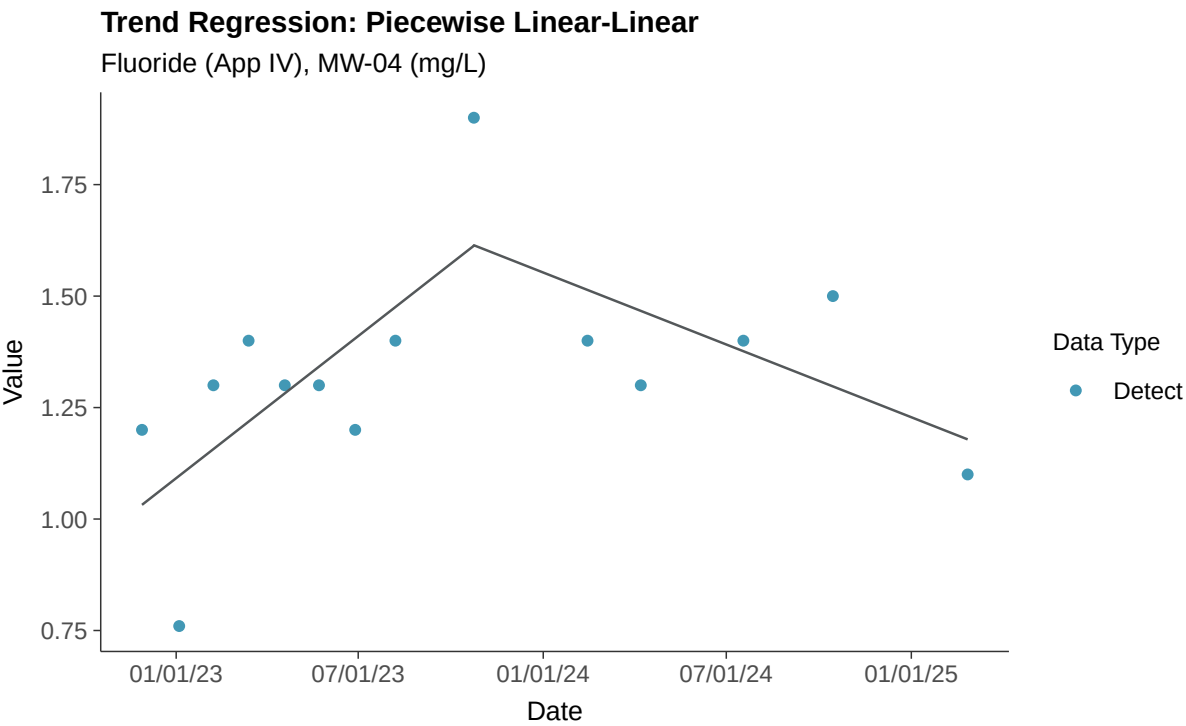


Lognormal Q-Q plot

Fluoride (App IV), MW-04 (mg/L)



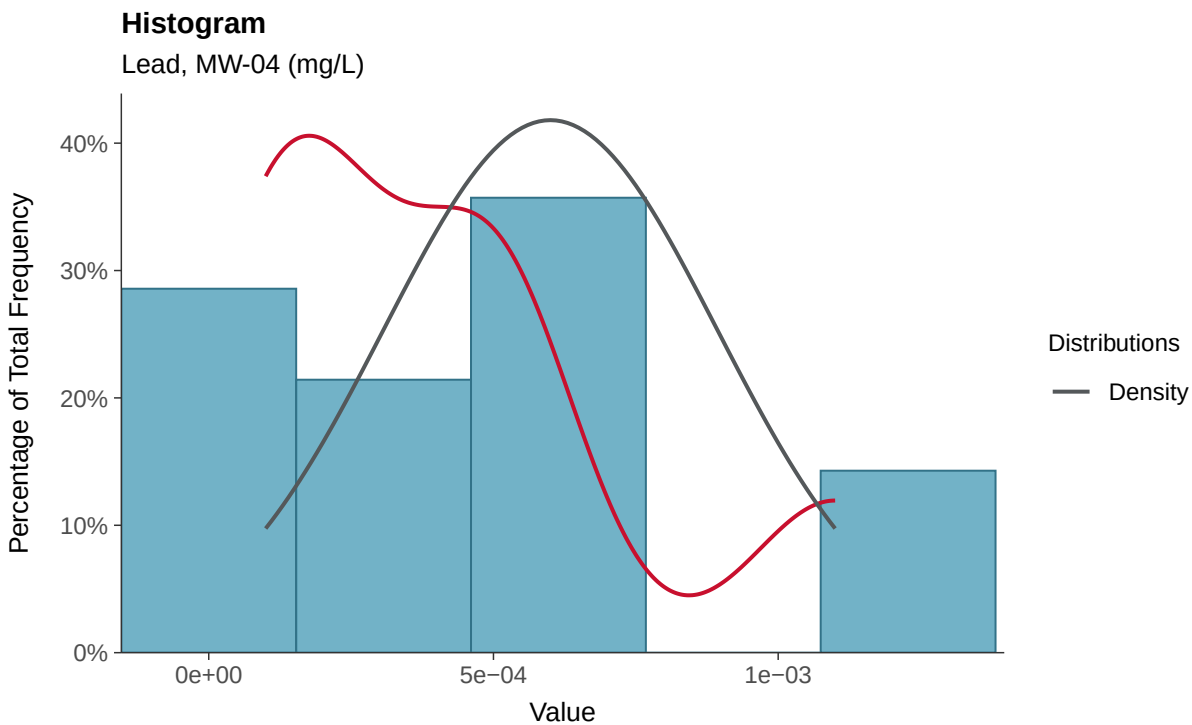
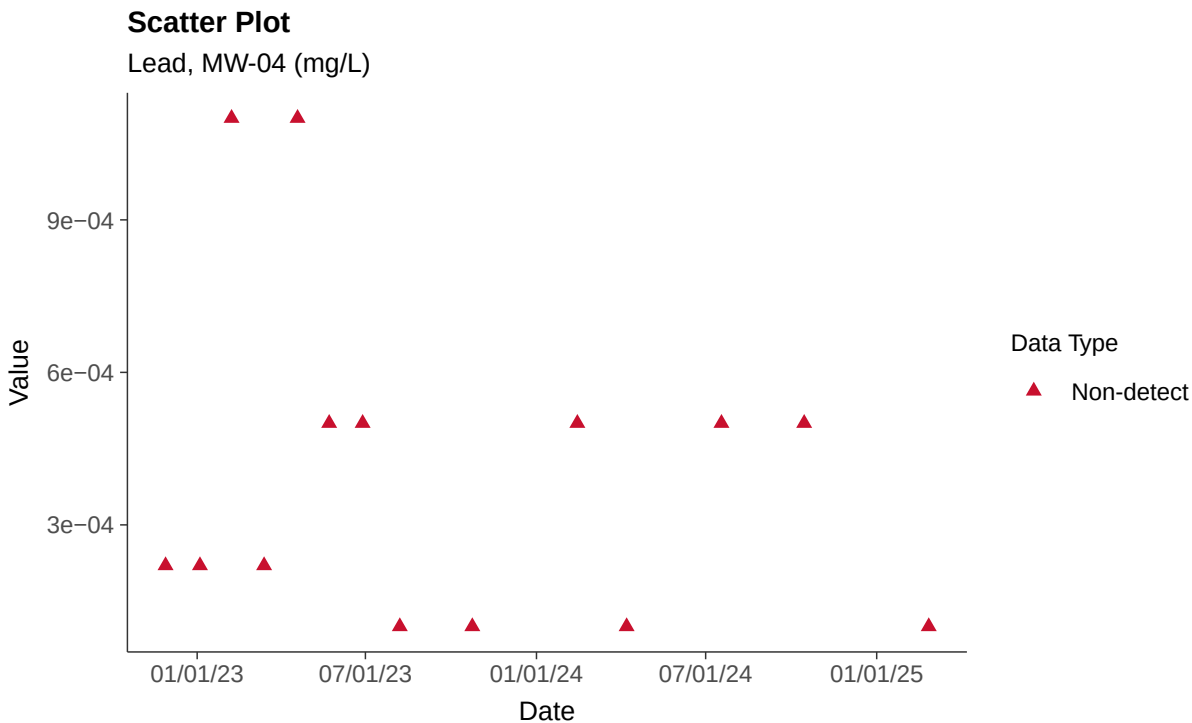


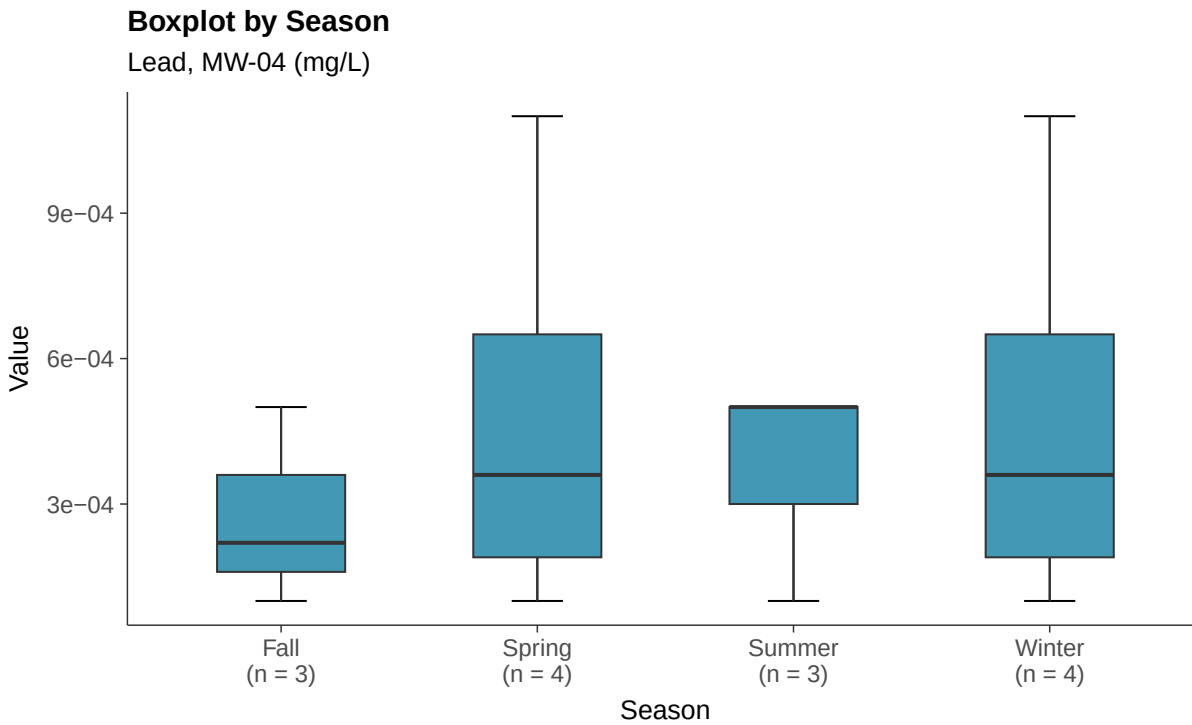
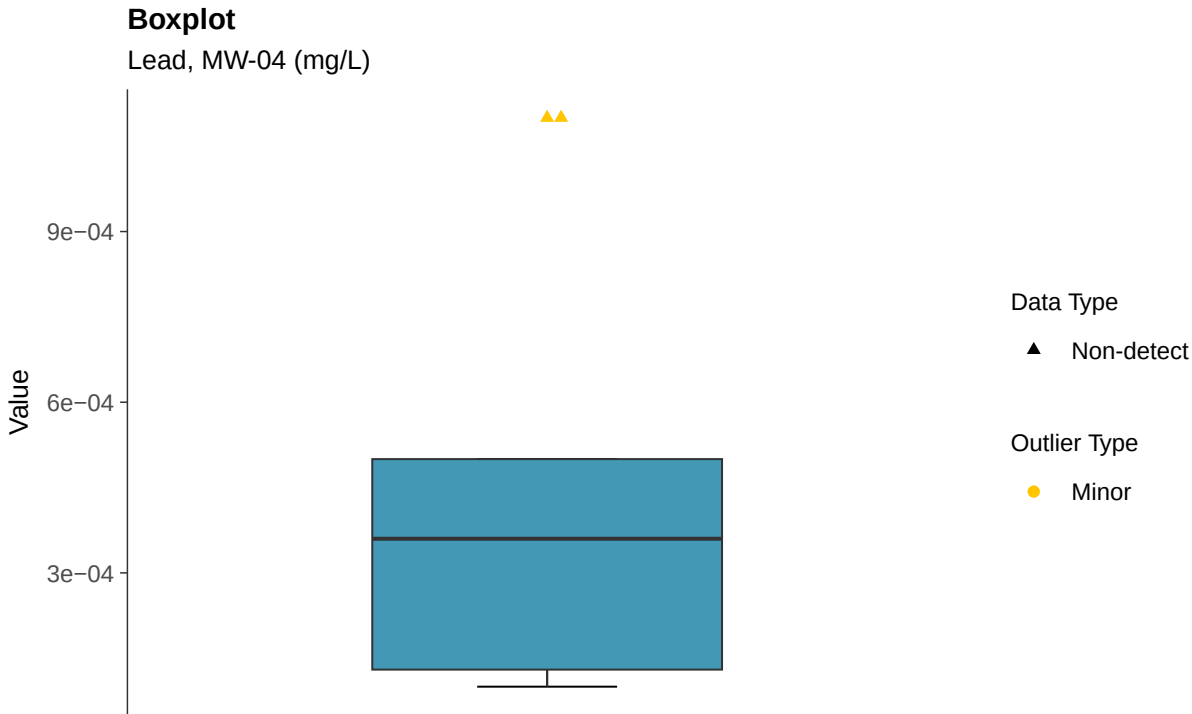


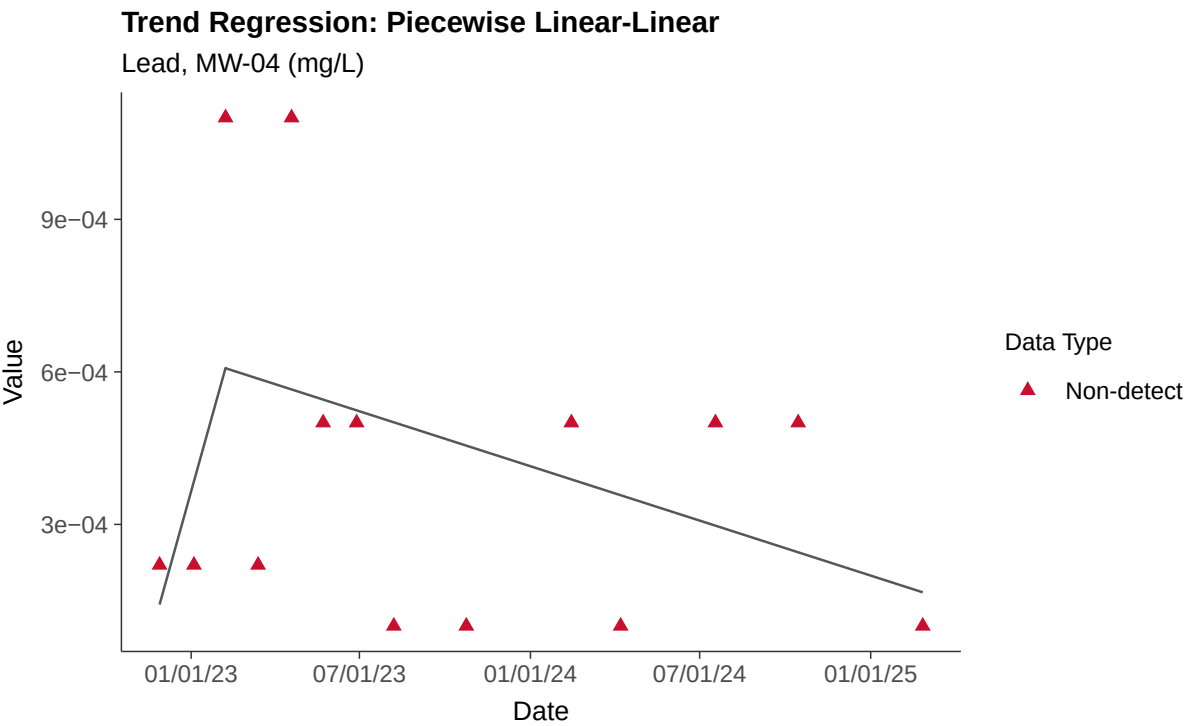


Appendix IV: Lead, MW-04

ID: 14_2_4_115



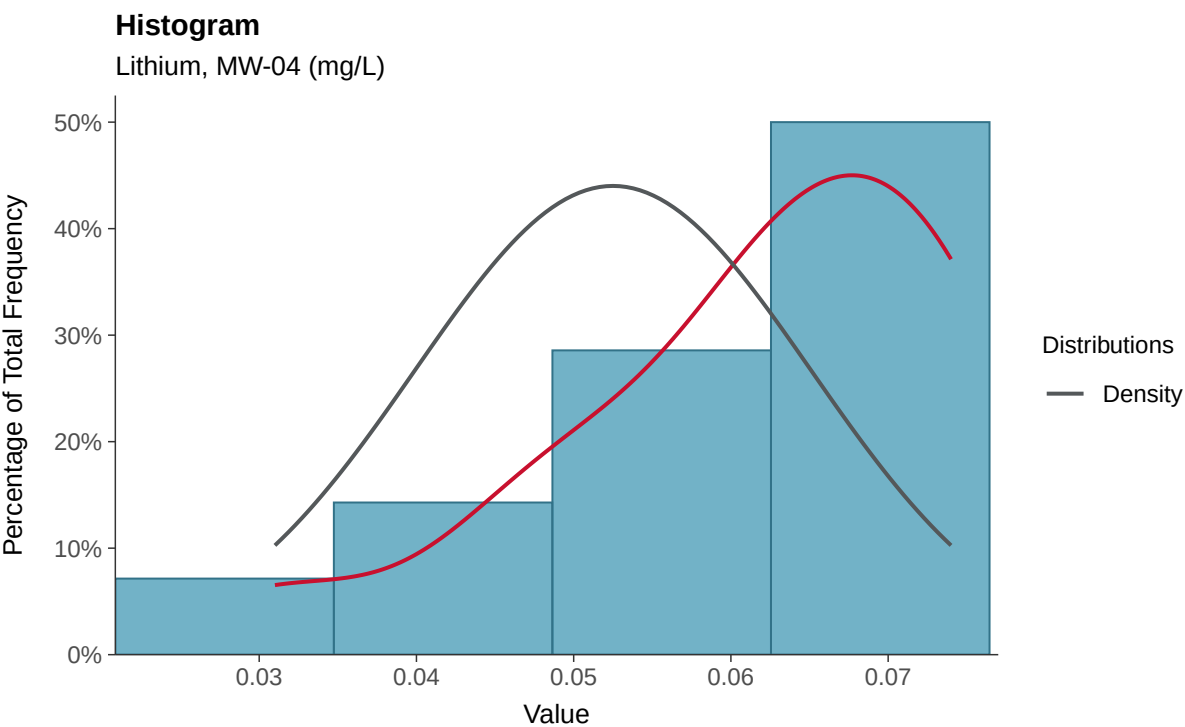
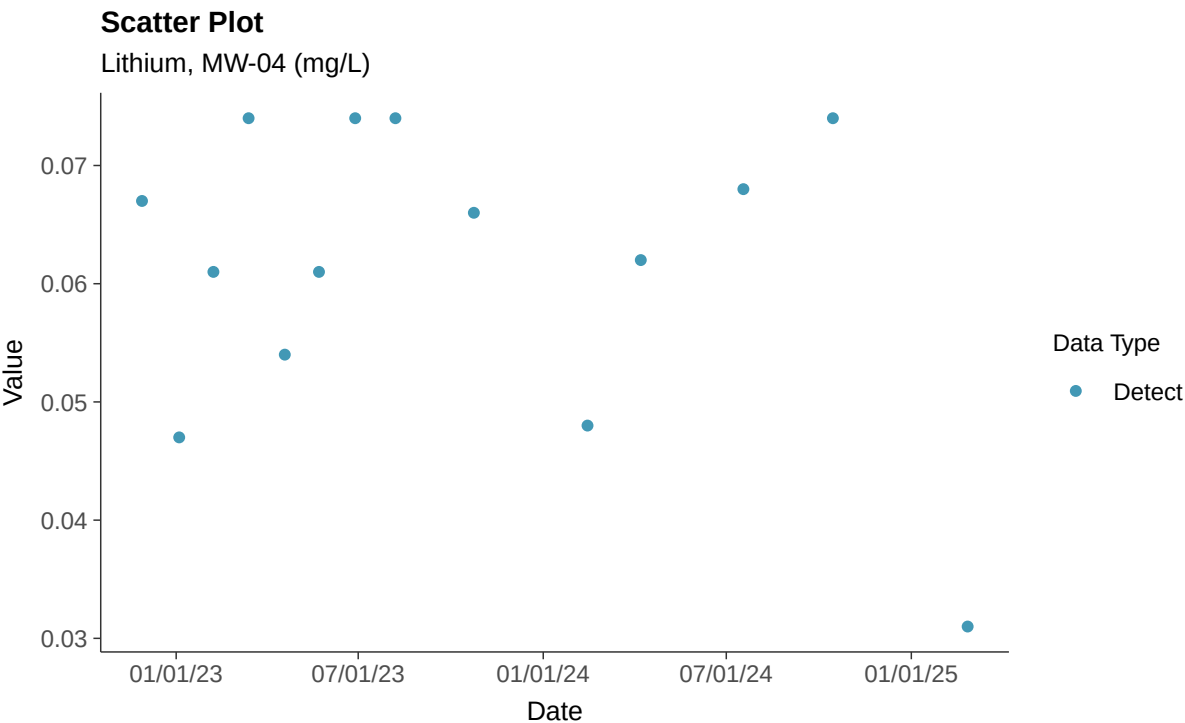


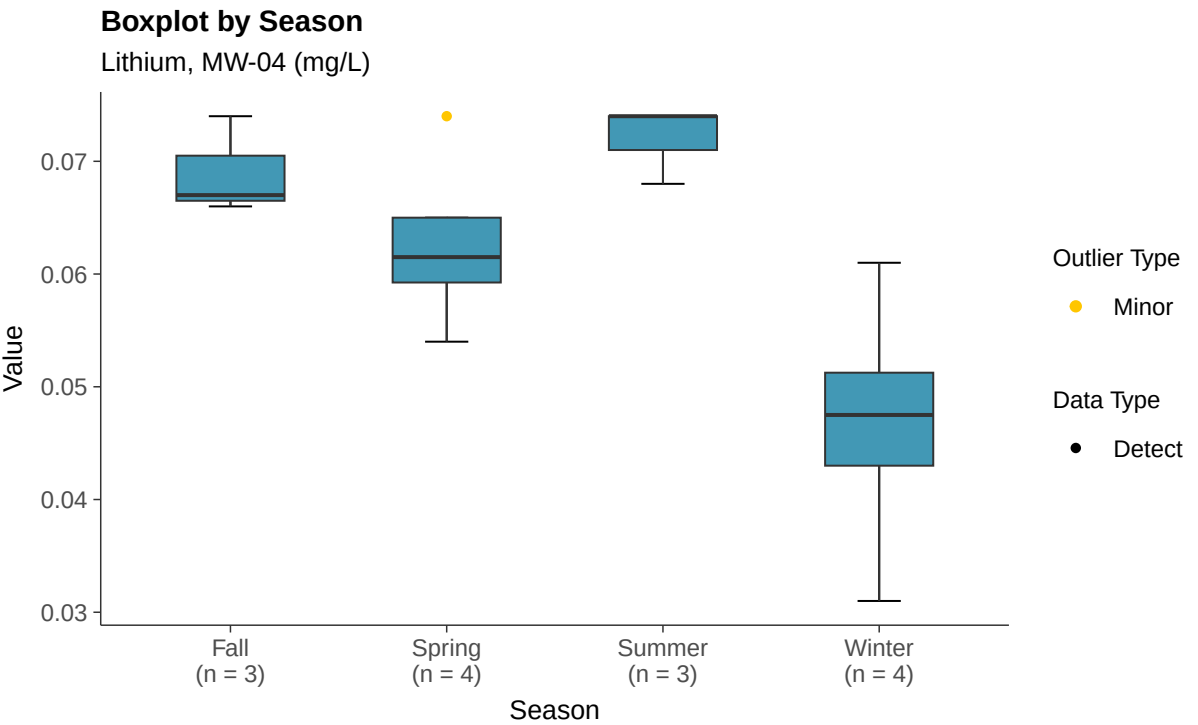
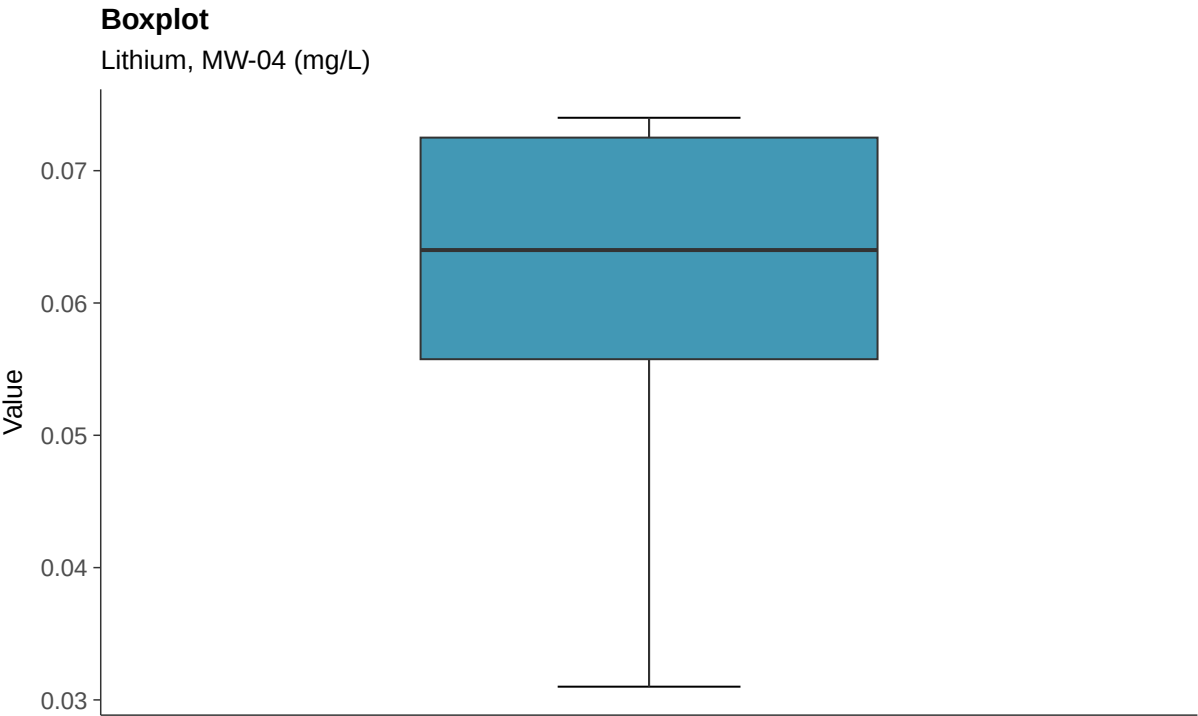


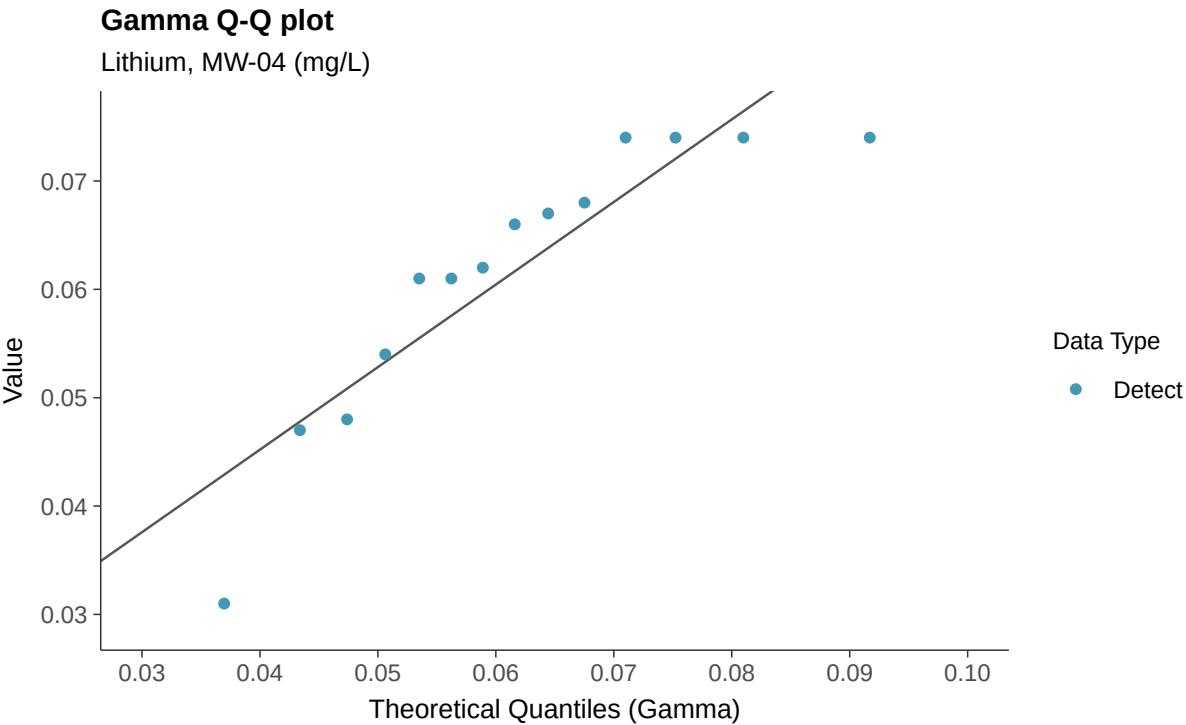
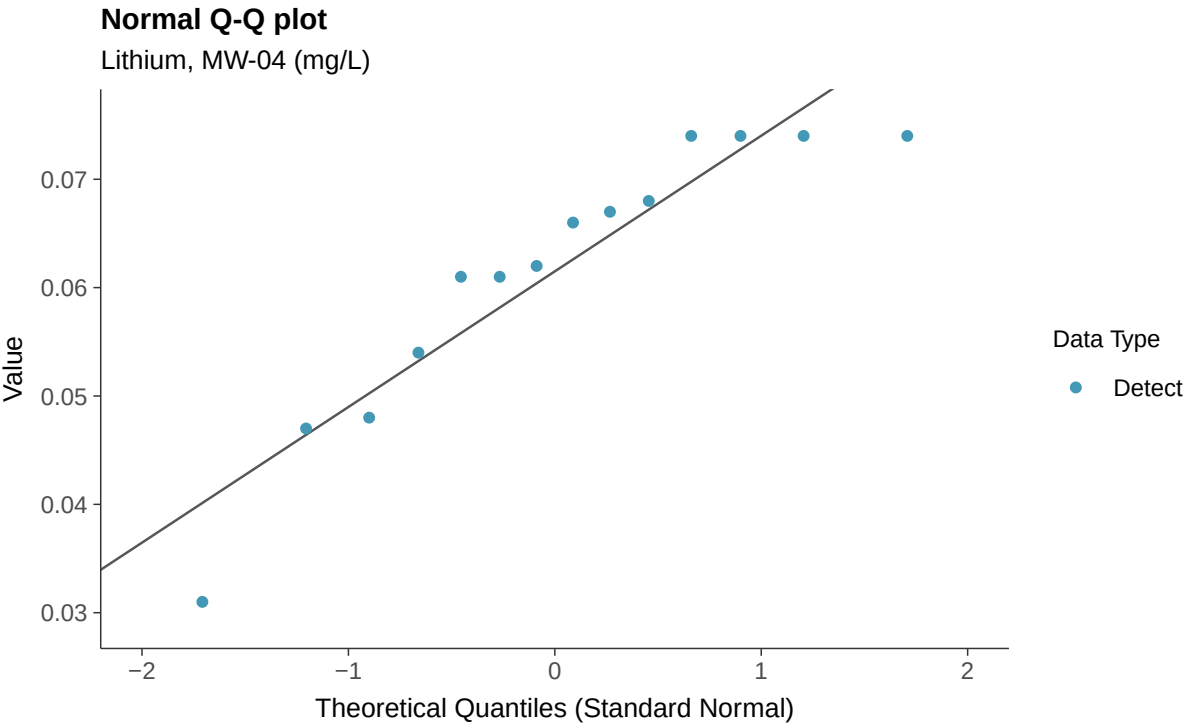


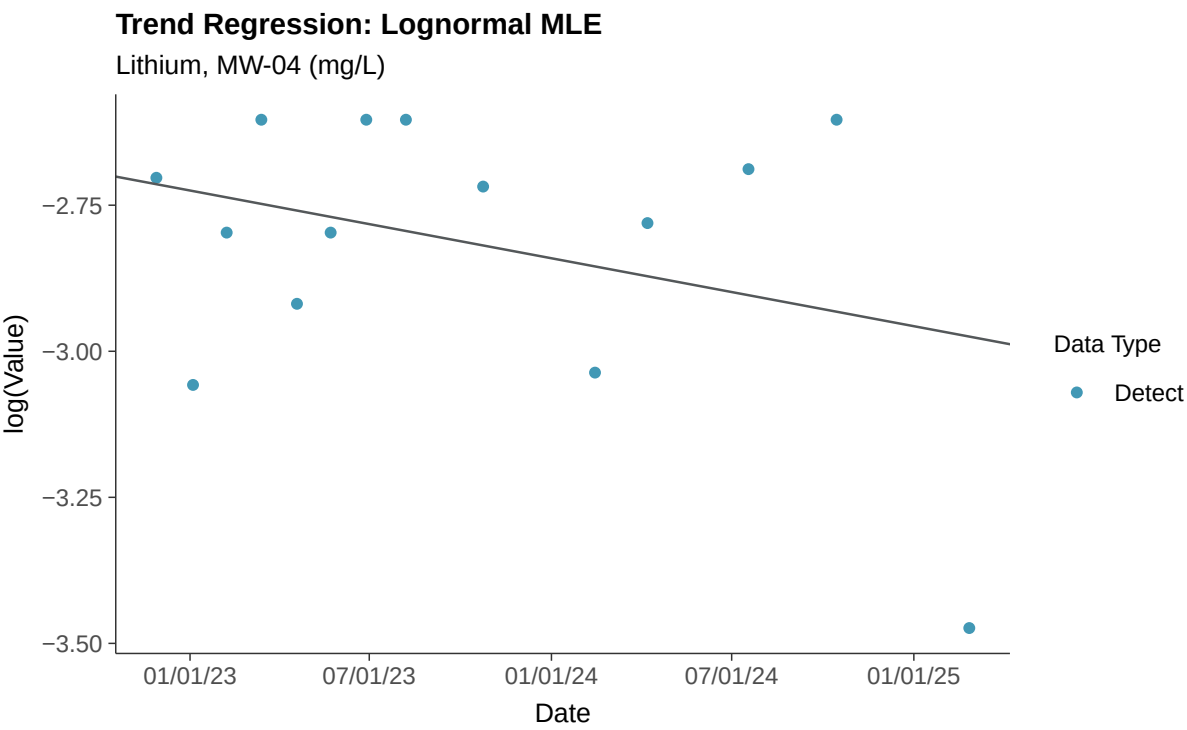
Appendix IV: Lithium, MW-04

ID: 14_2_4_116





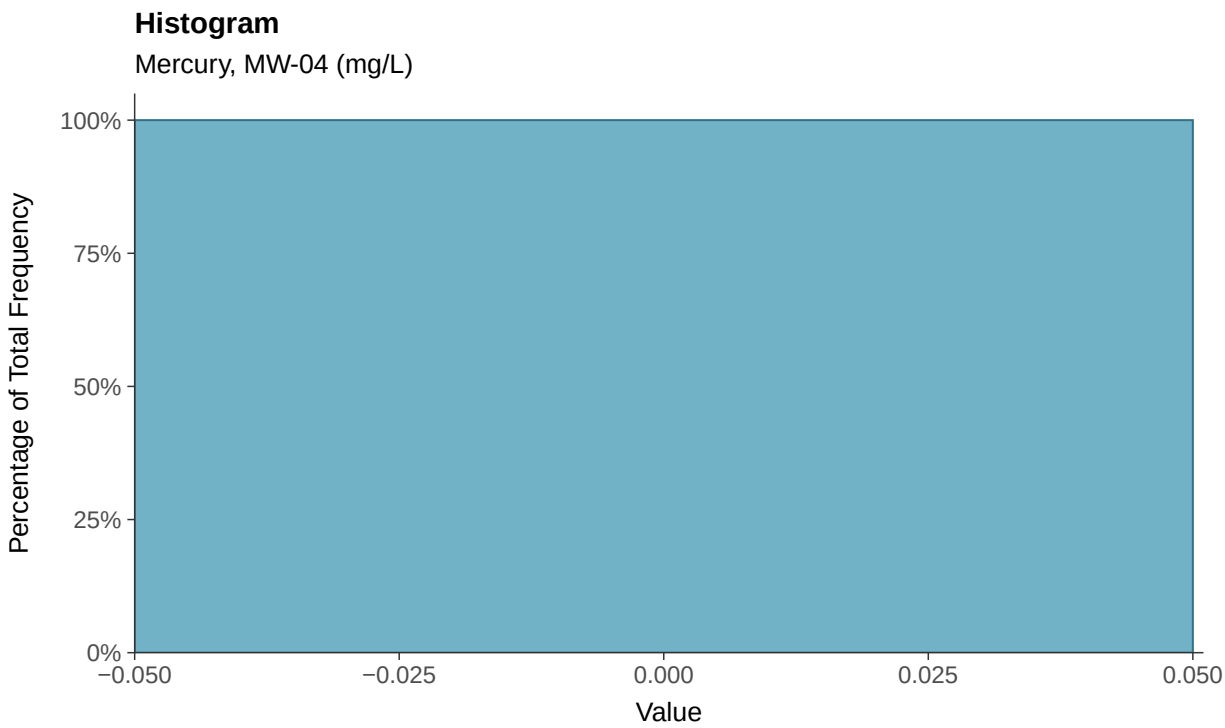
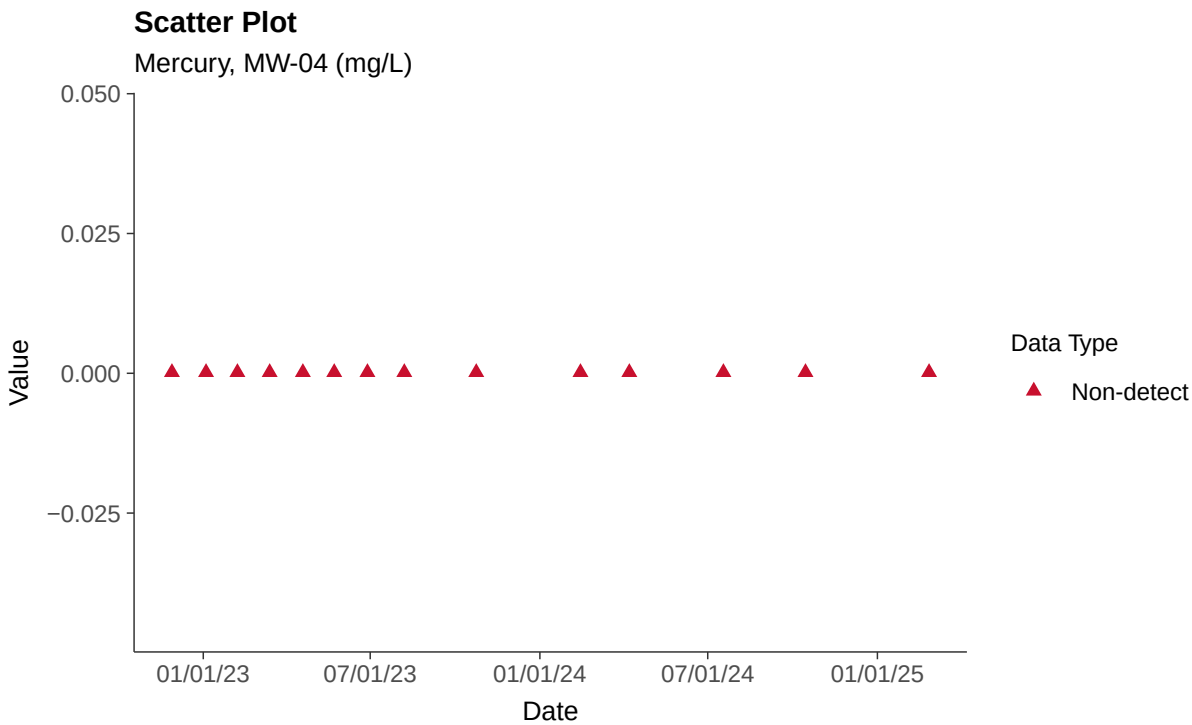


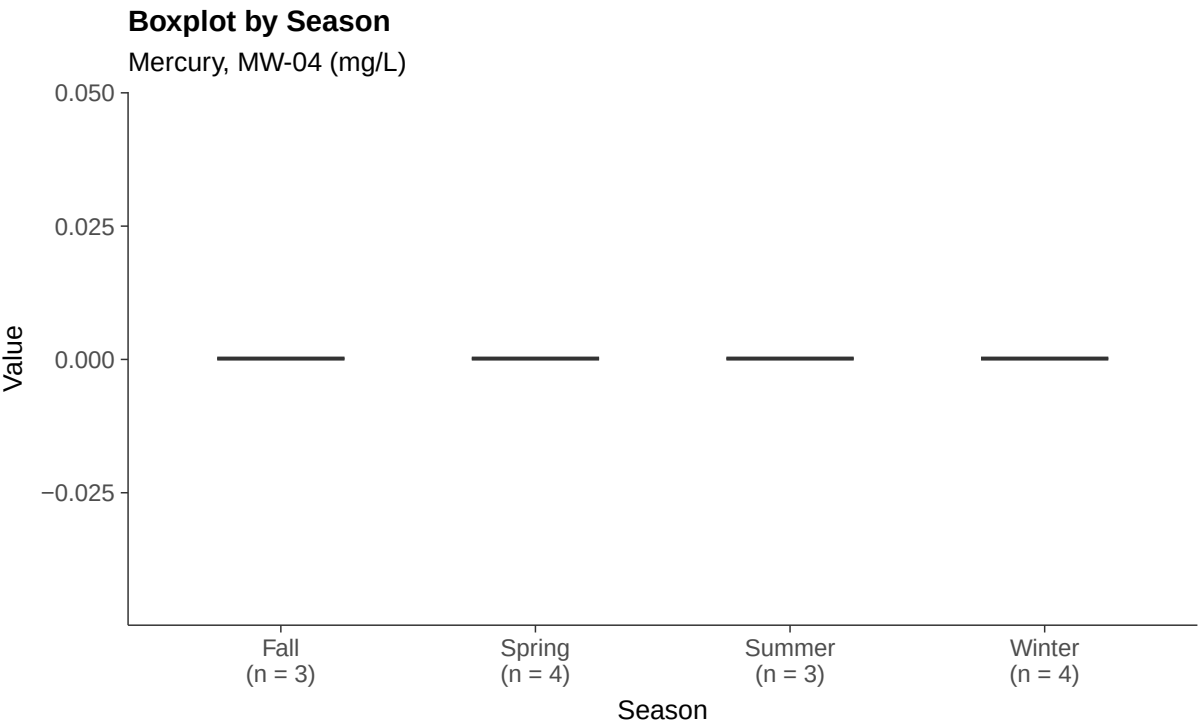
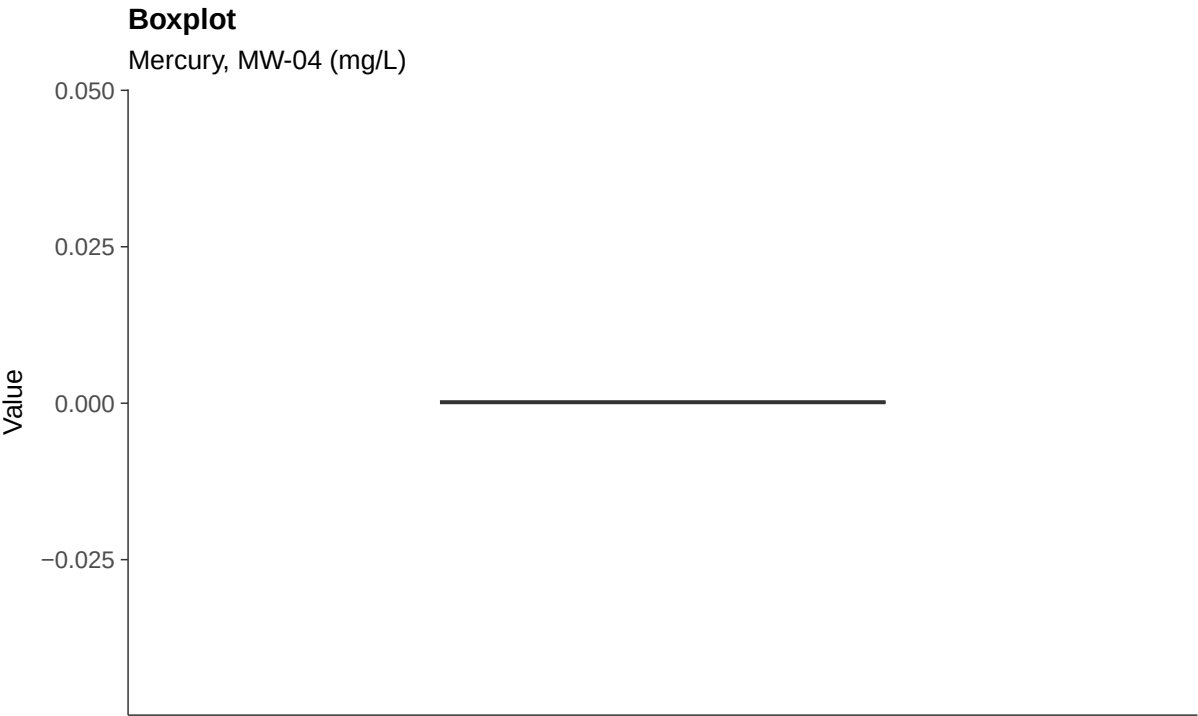




Appendix IV: Mercury, MW-04

ID: 14_2_4_117

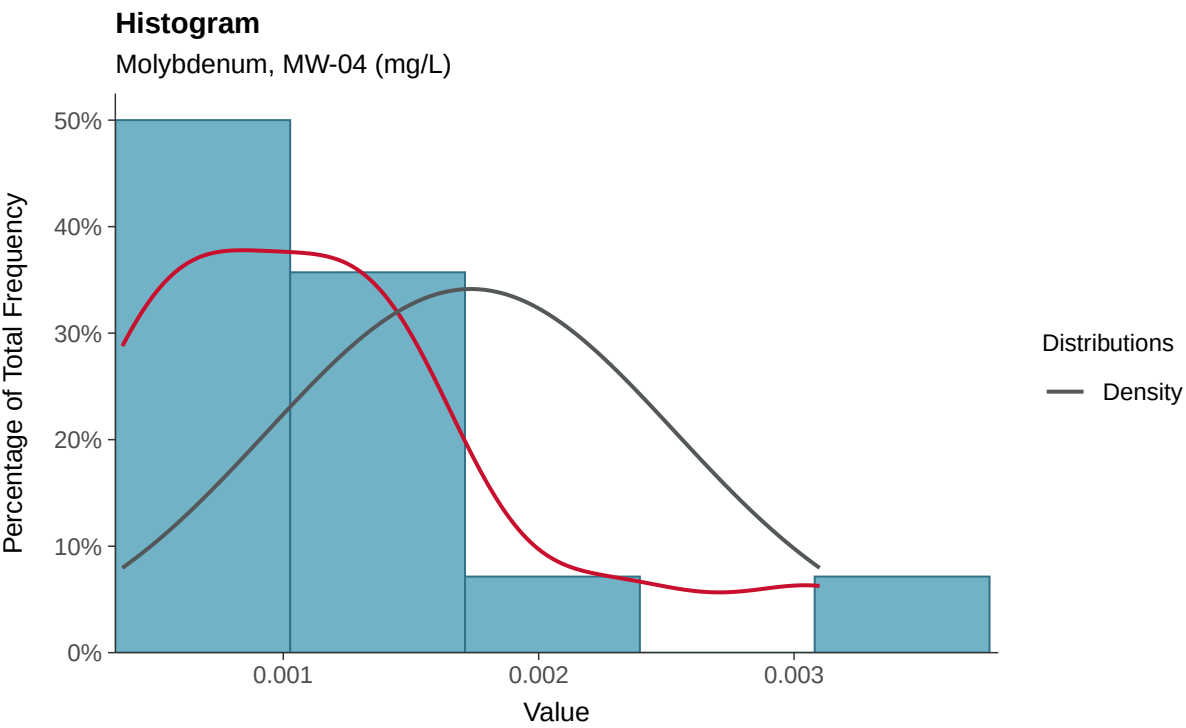
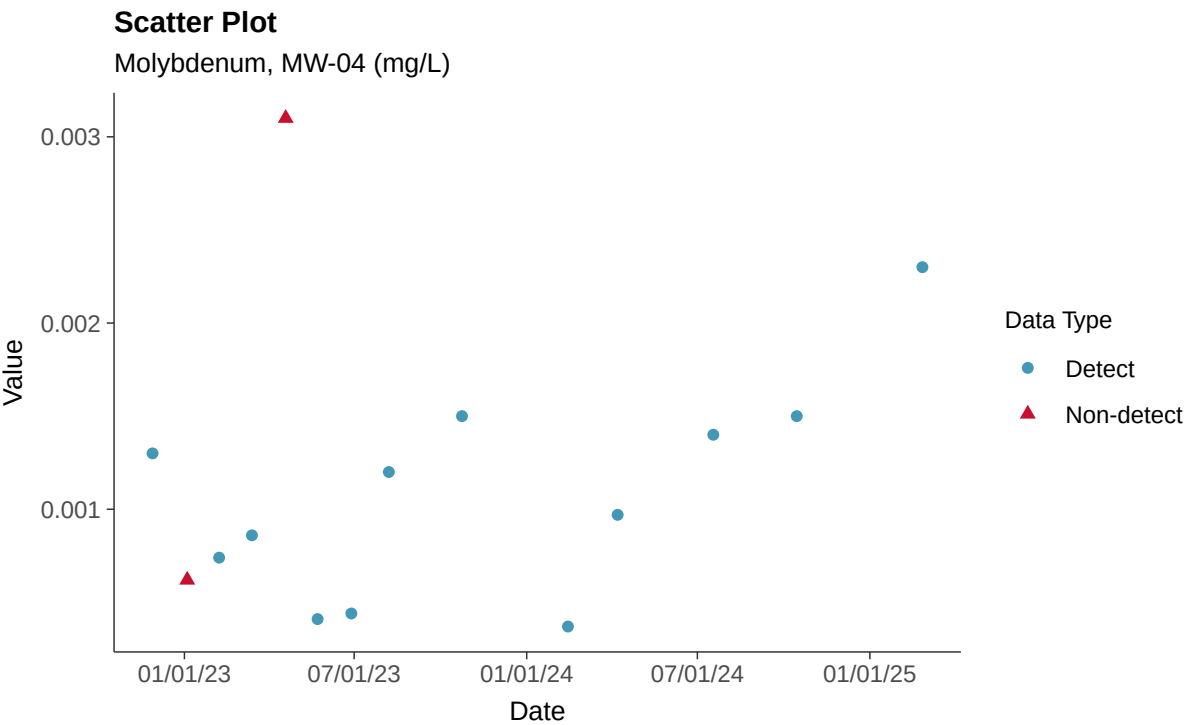


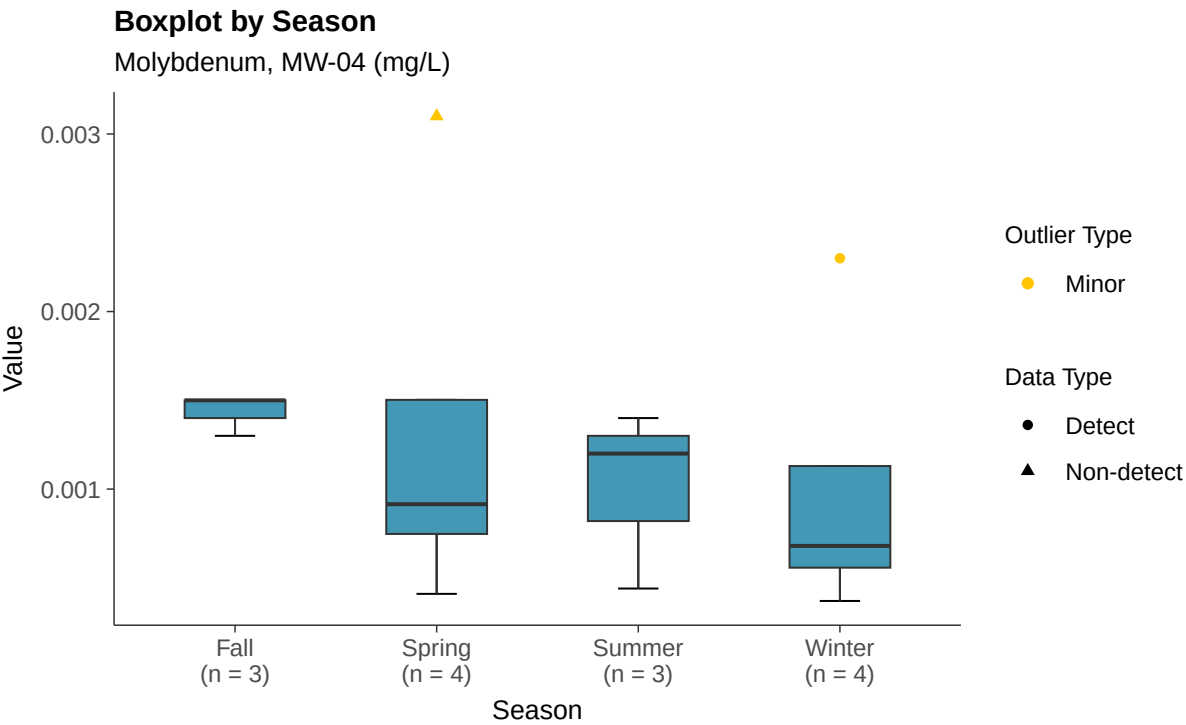
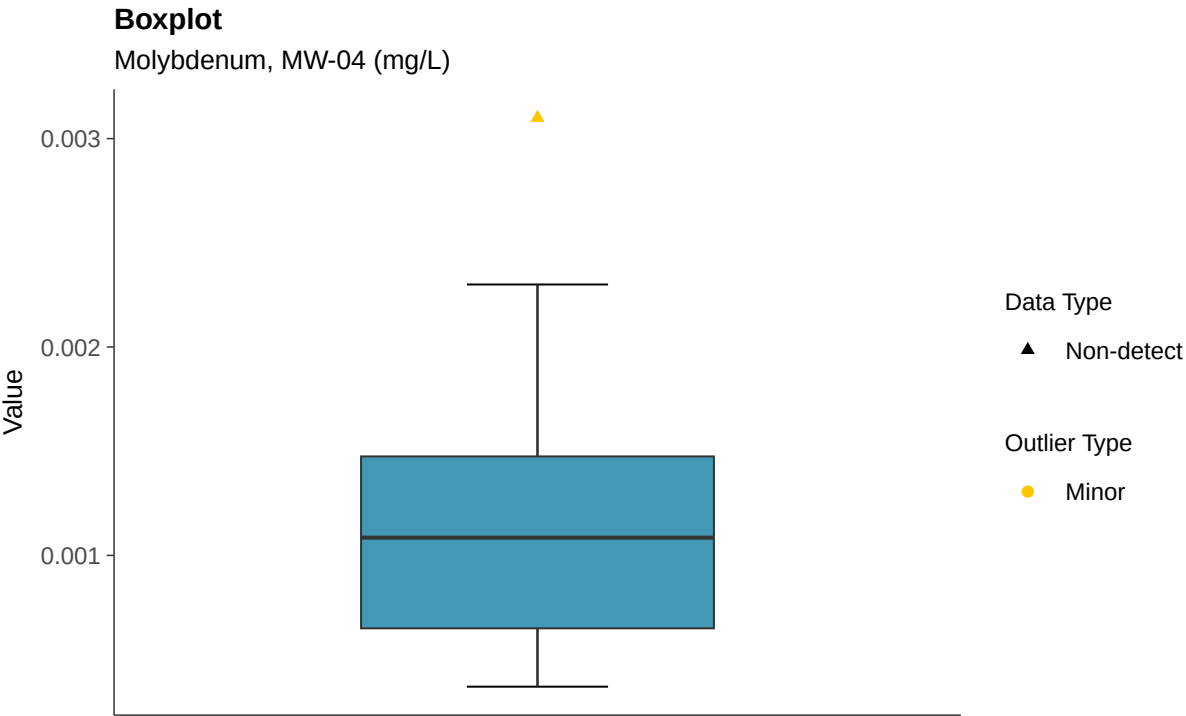




Appendix IV: Molybdenum, MW-04

ID: 14_2_4_118

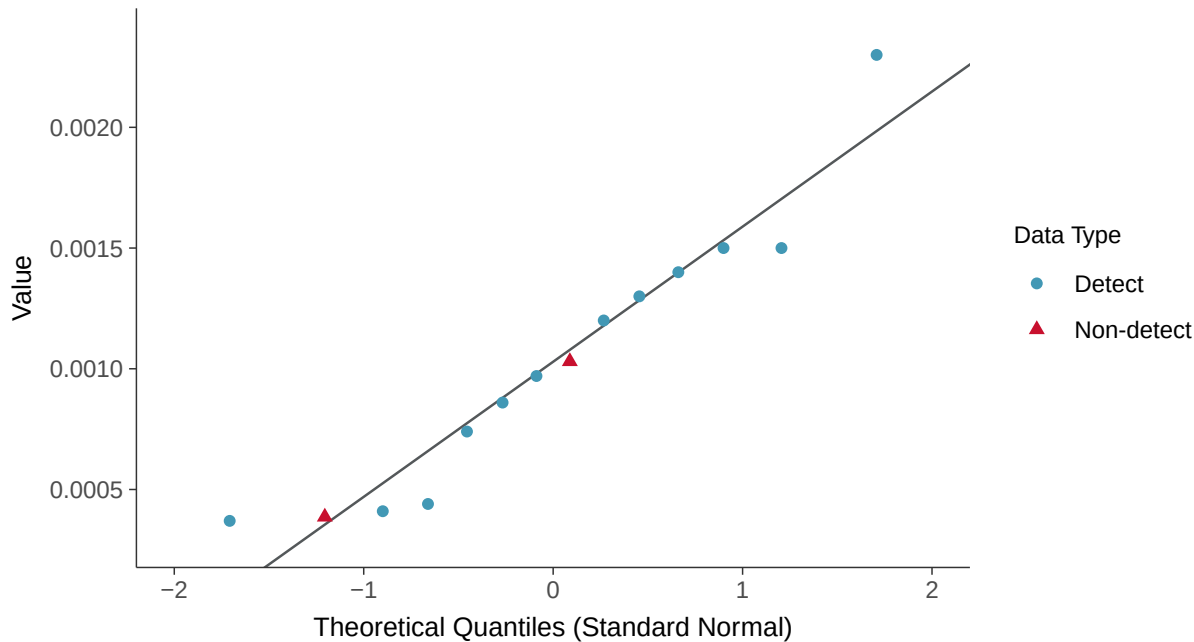






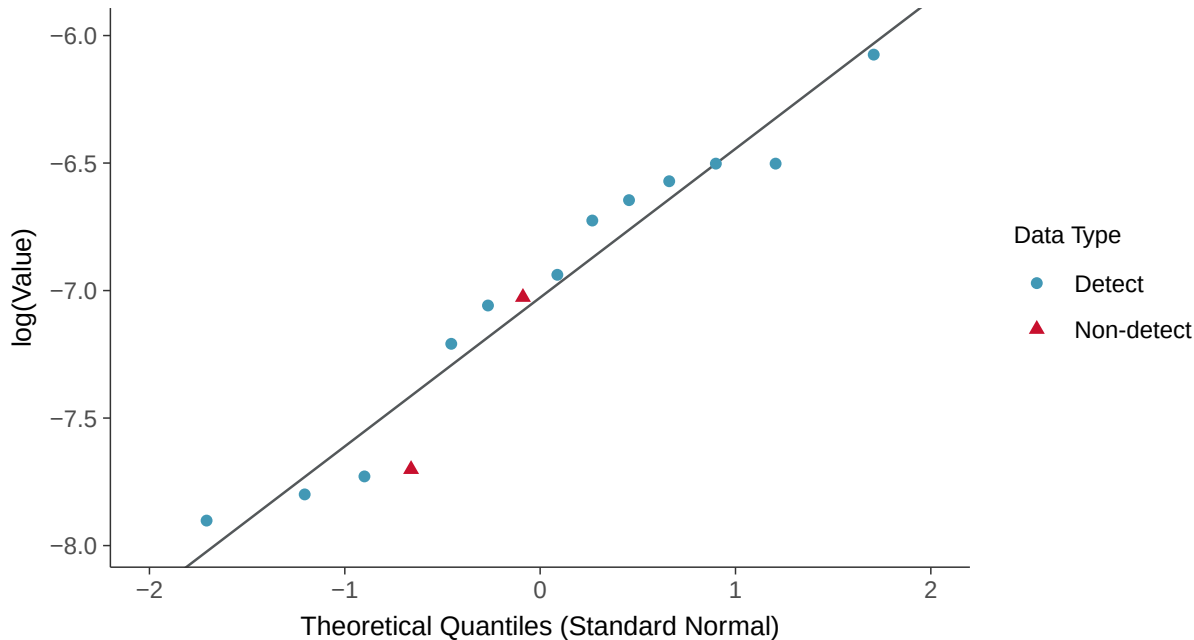
Normal Q-Q plot using ROS Imputed Estimates

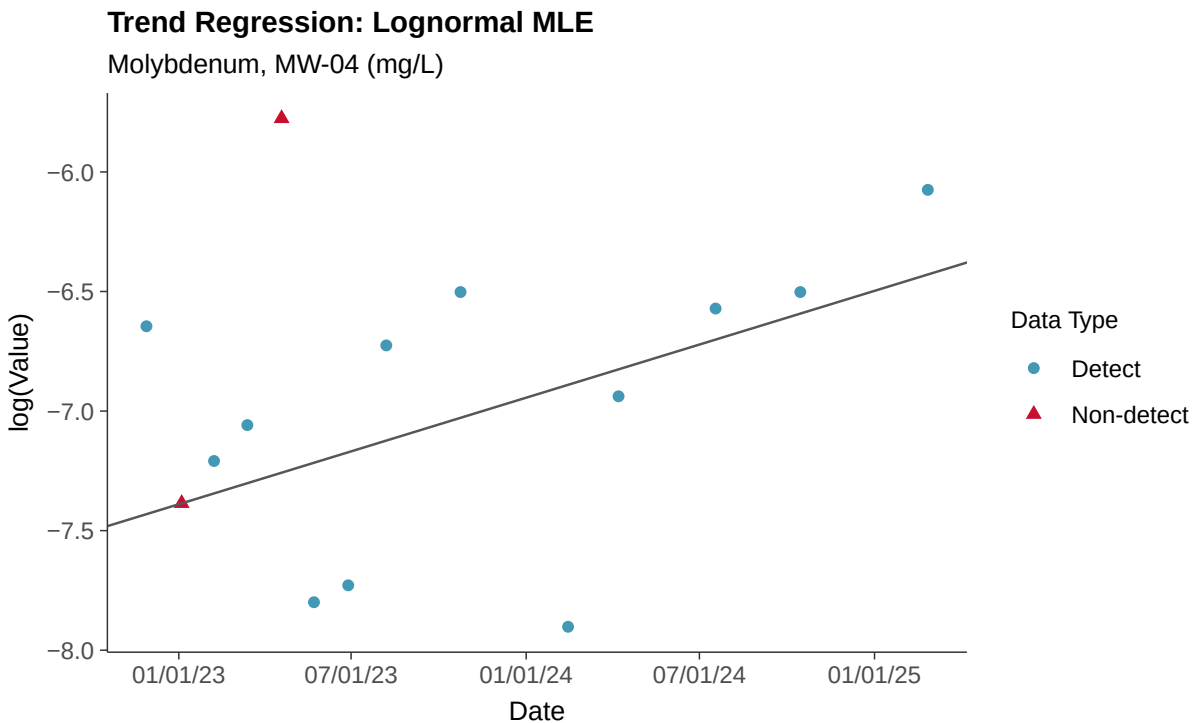
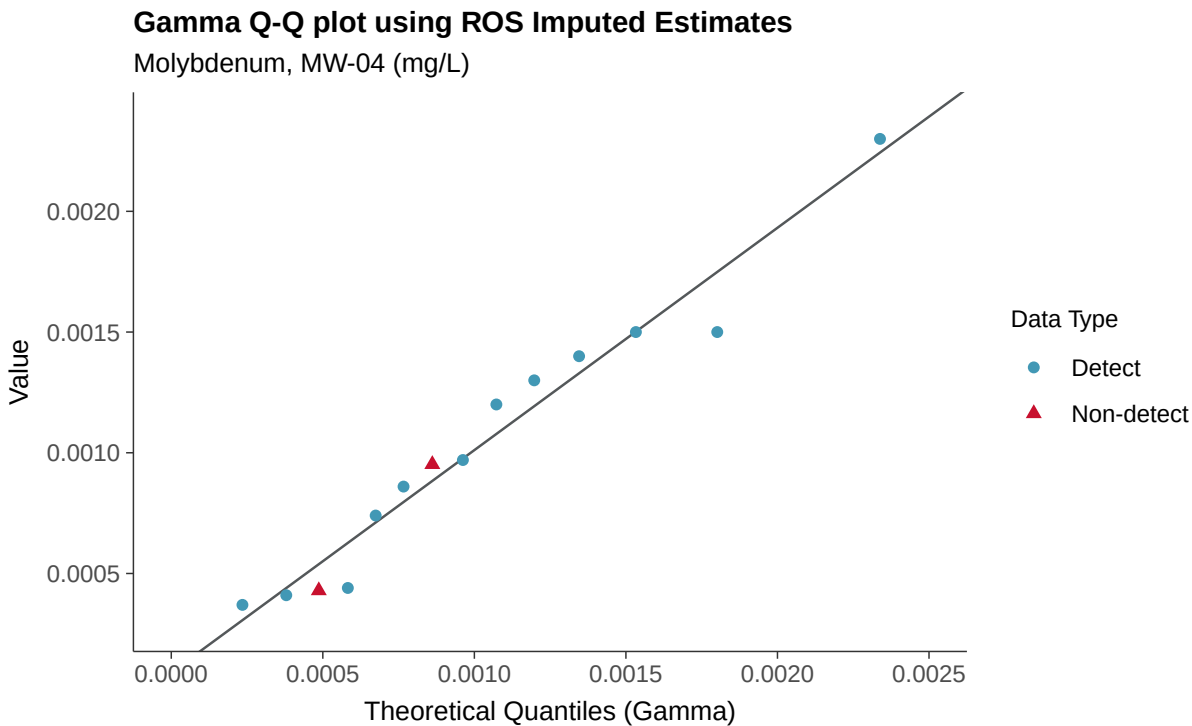
Molybdenum, MW-04 (mg/L)

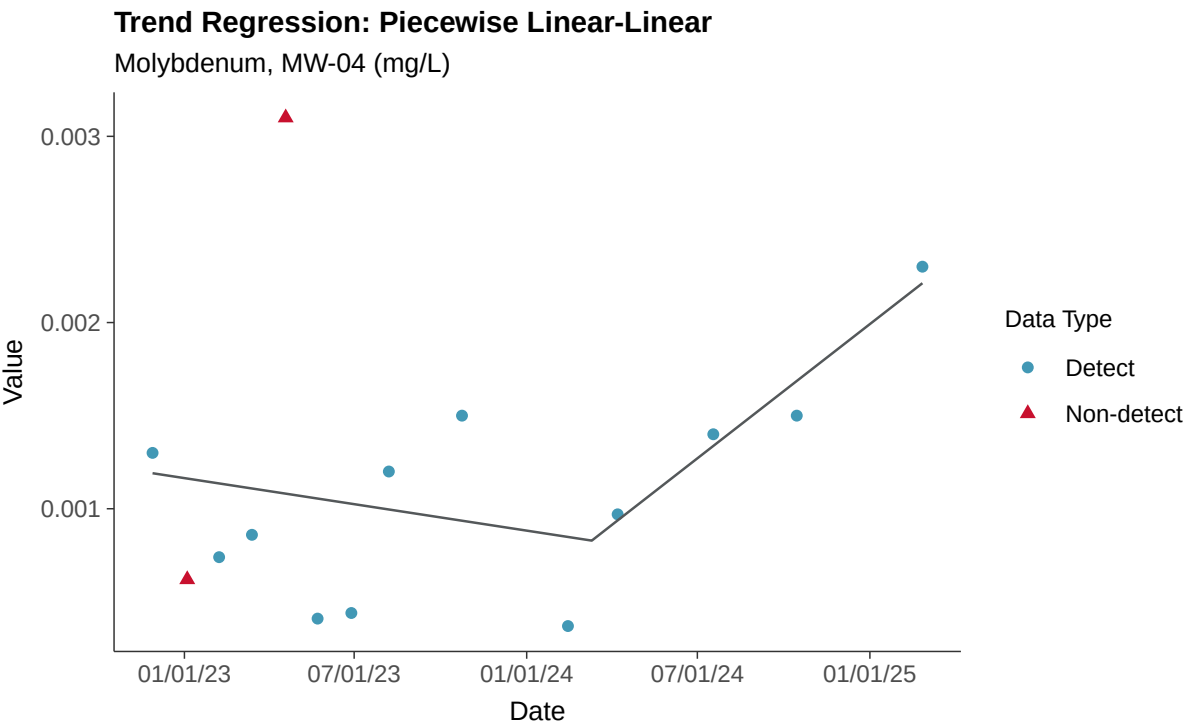


Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-04 (mg/L)



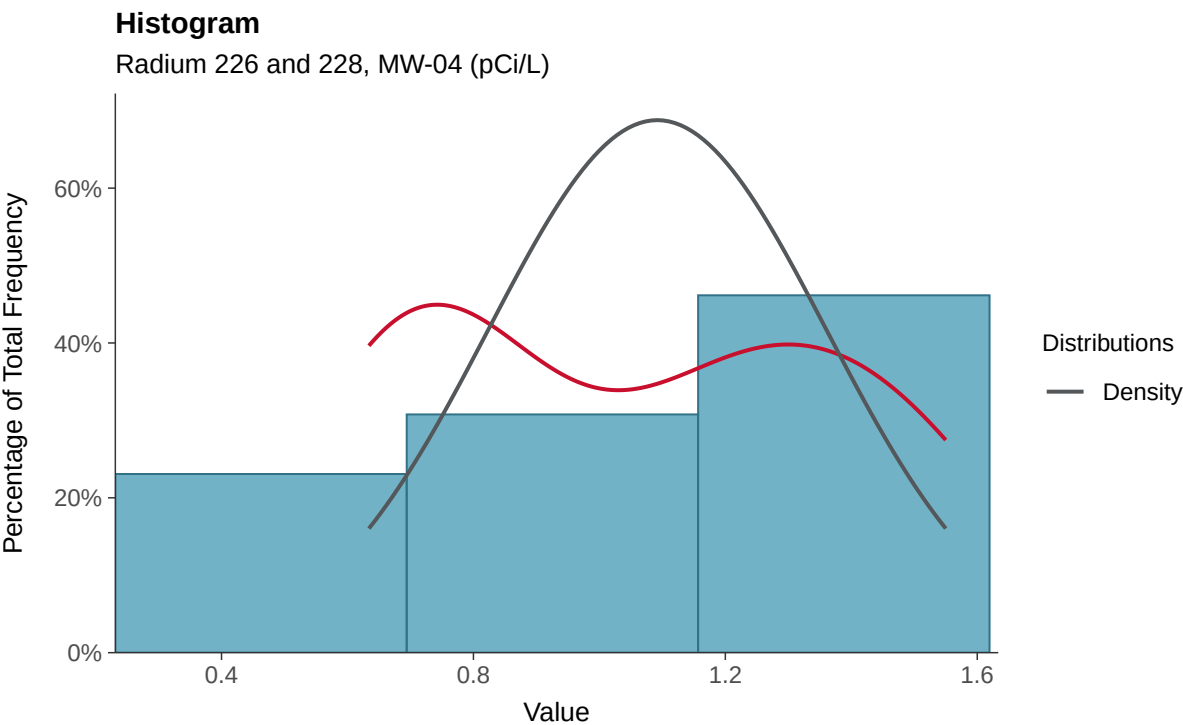
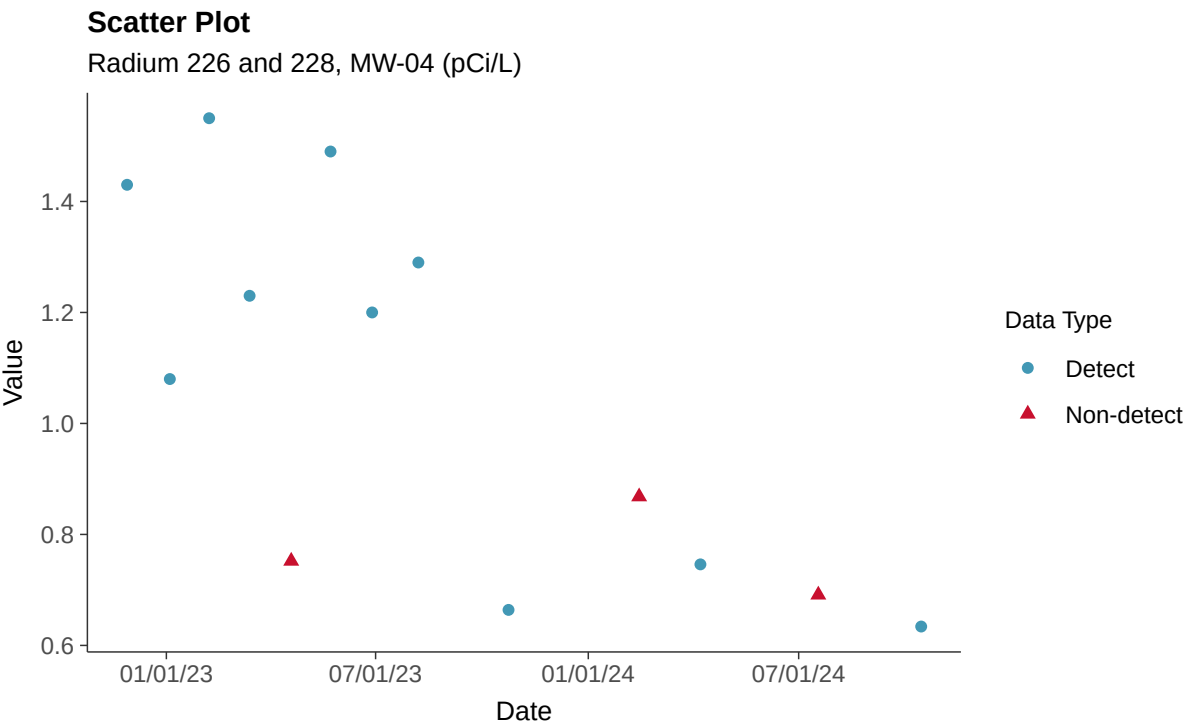






Appendix IV: Radium 226 and 228, MW-04

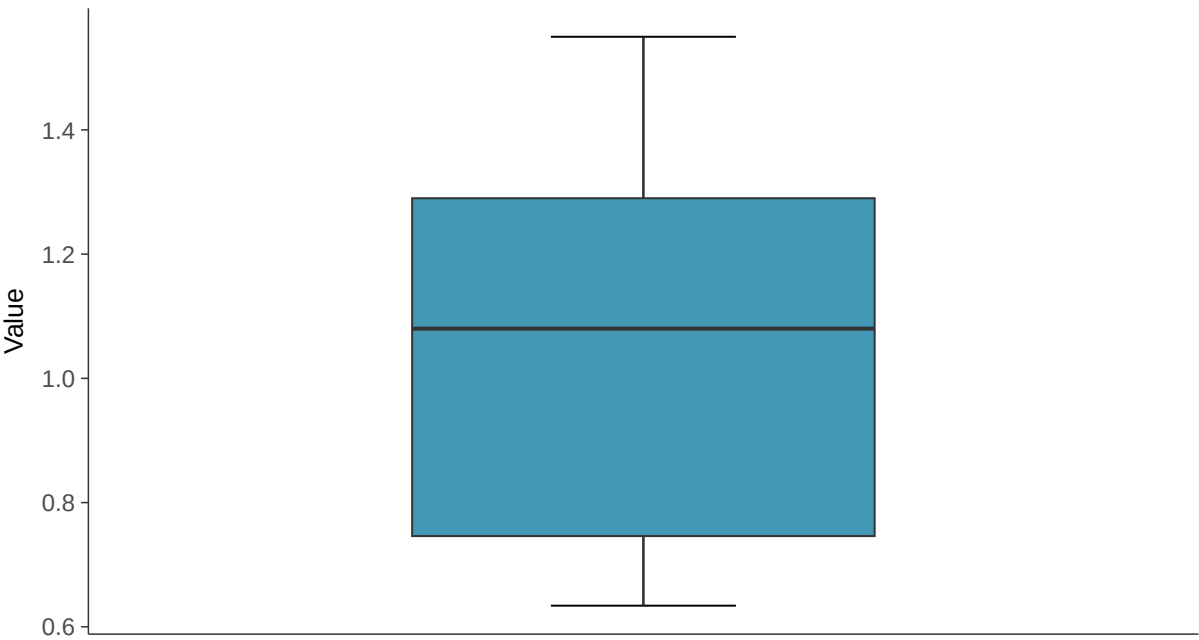
ID: 14_2_4_121





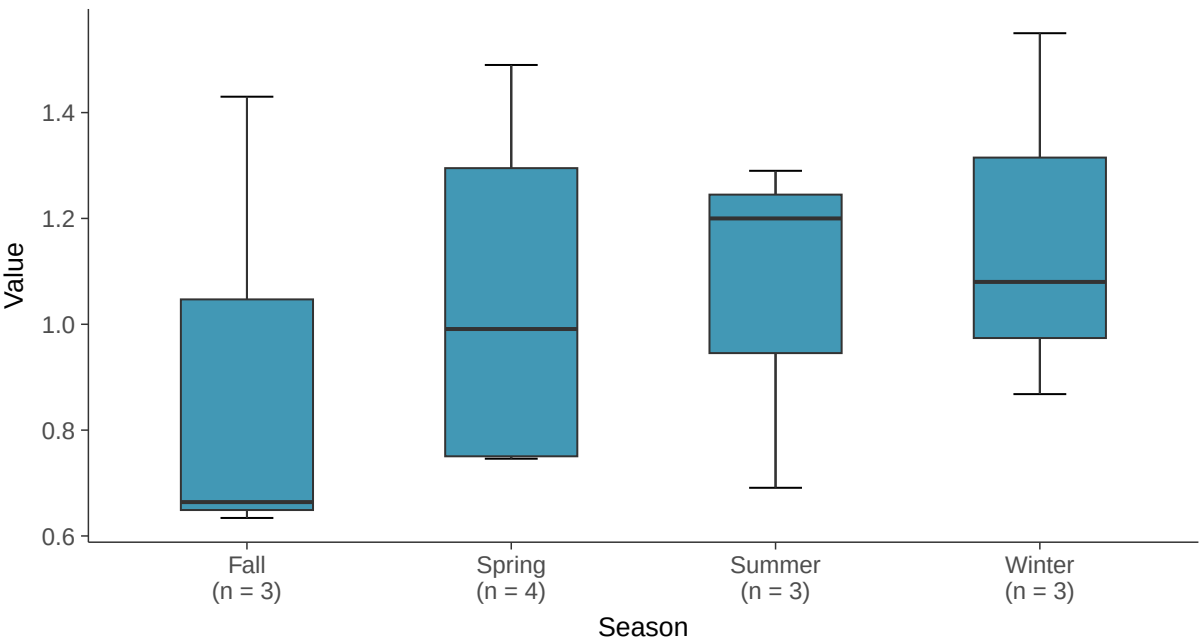
Boxplot

Radium 226 and 228, MW-04 (pCi/L)



Boxplot by Season

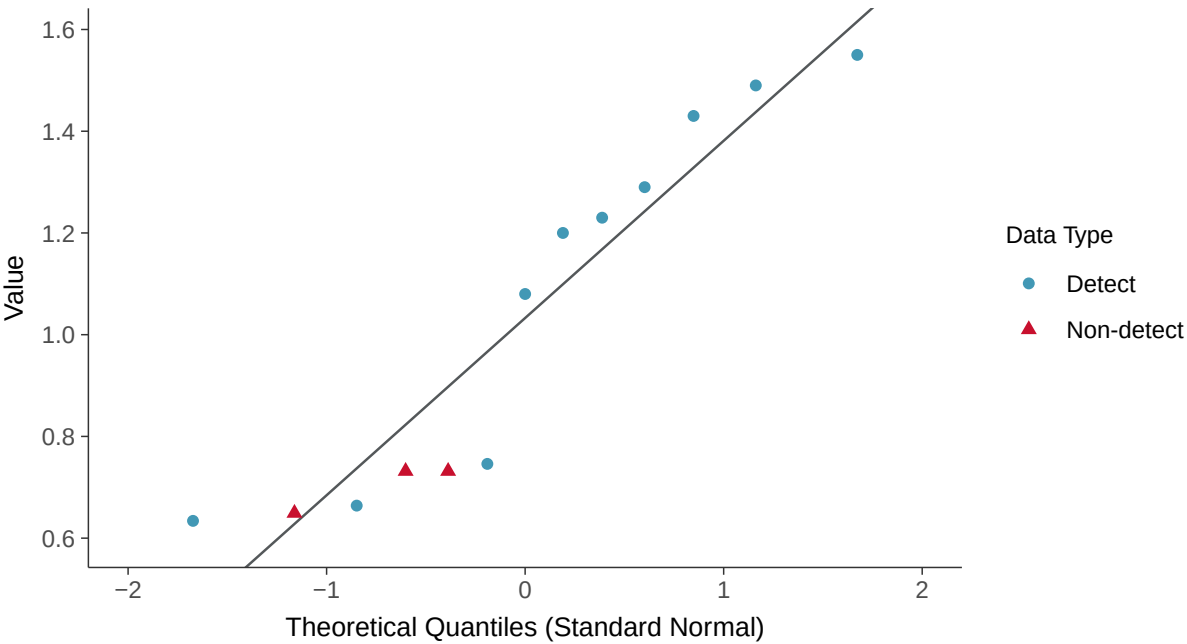
Radium 226 and 228, MW-04 (pCi/L)





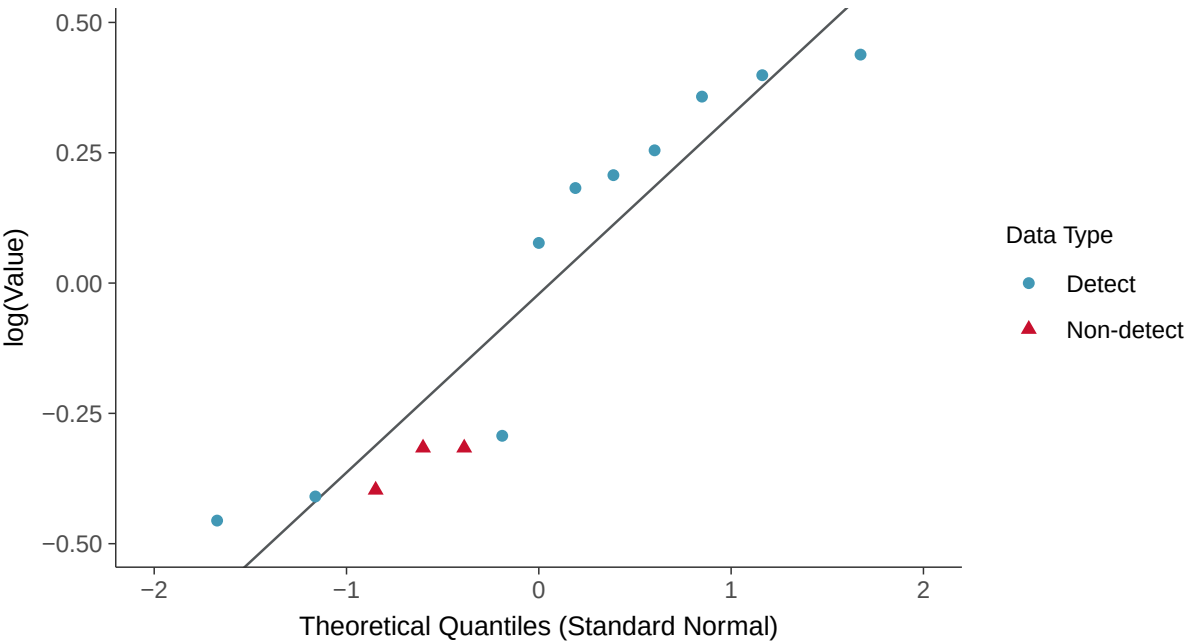
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

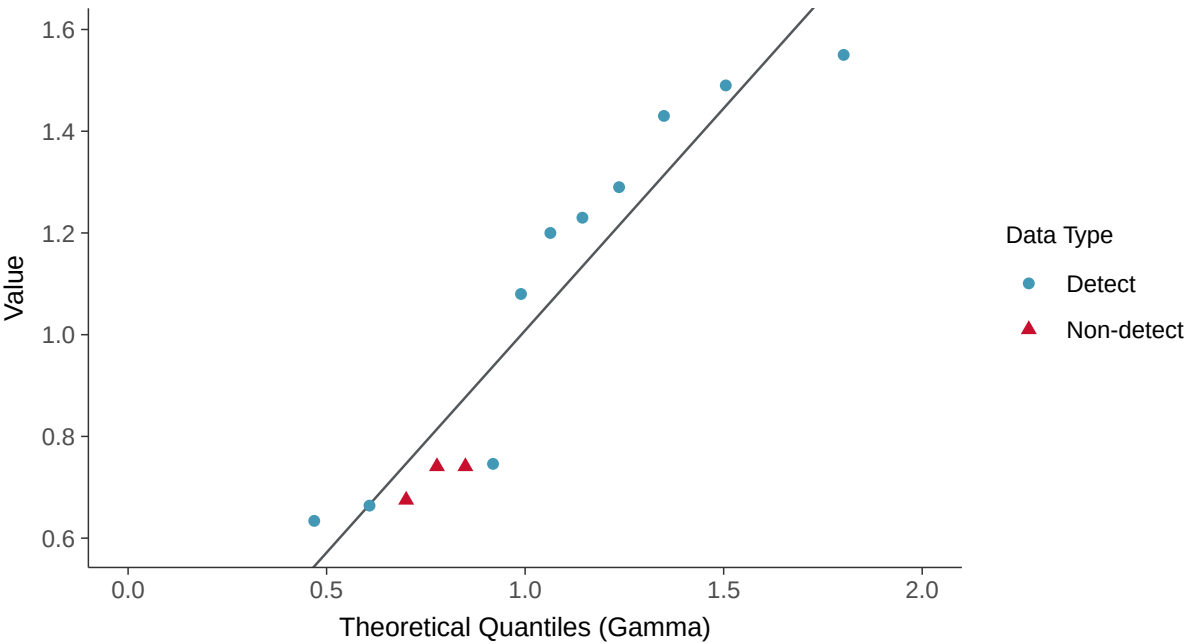
Radium 226 and 228, MW-04 (pCi/L)





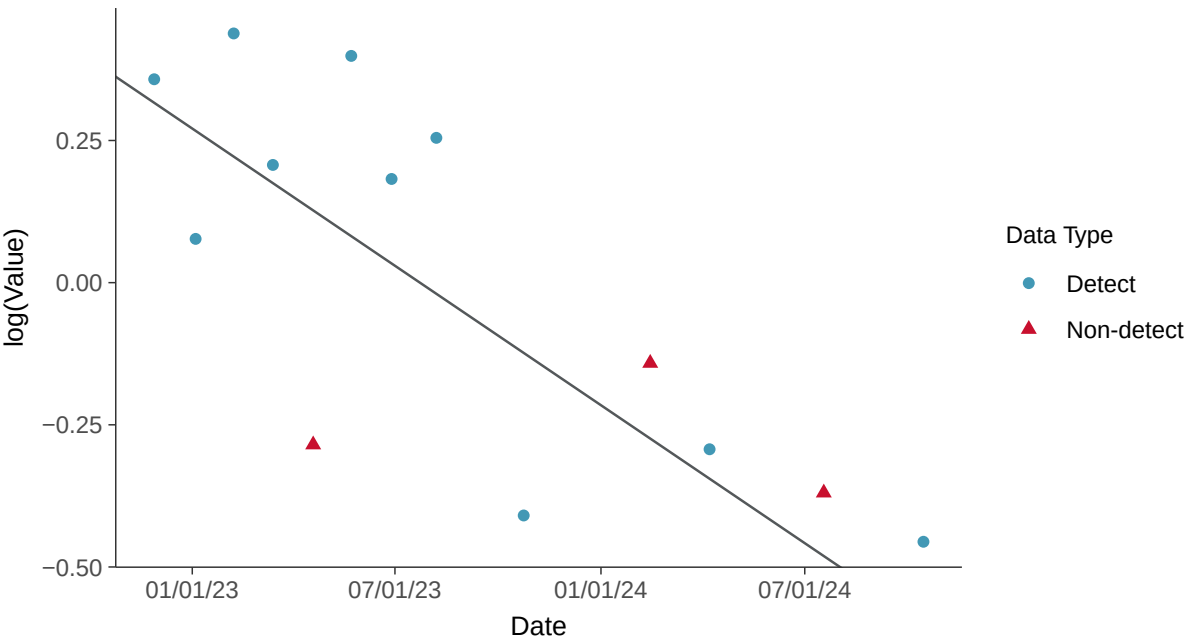
Gamma Q-Q plot using ROS Imputed Estimates

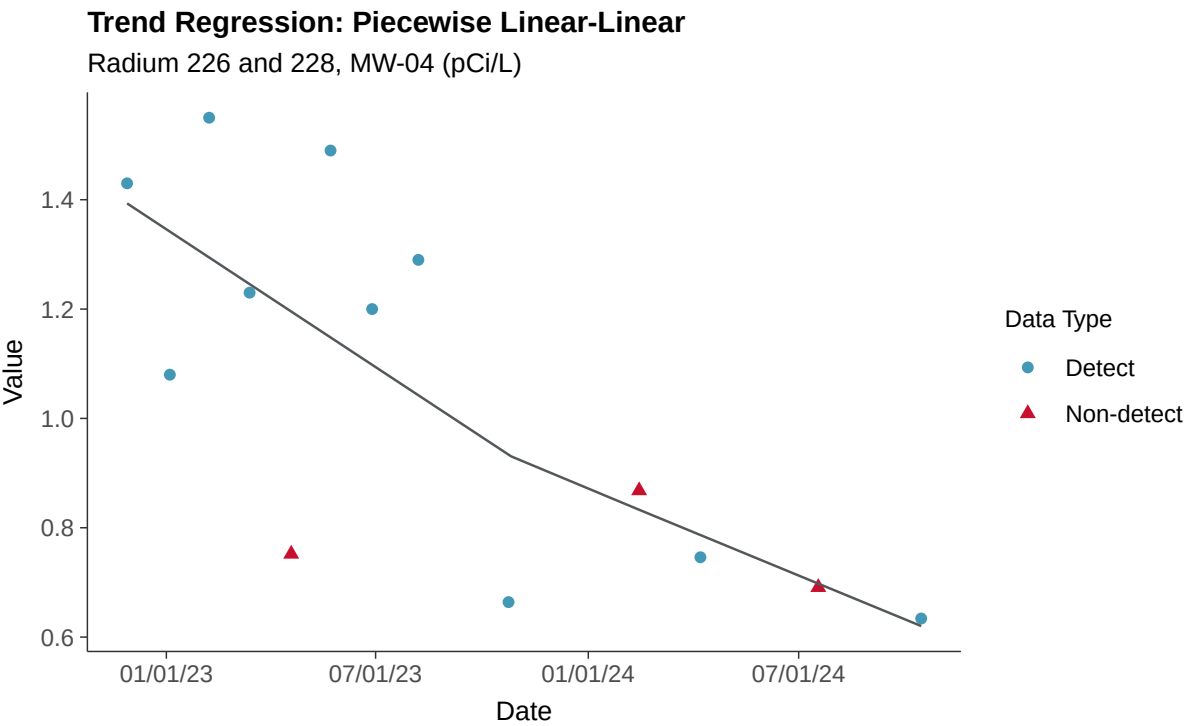
Radium 226 and 228, MW-04 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-04 (pCi/L)

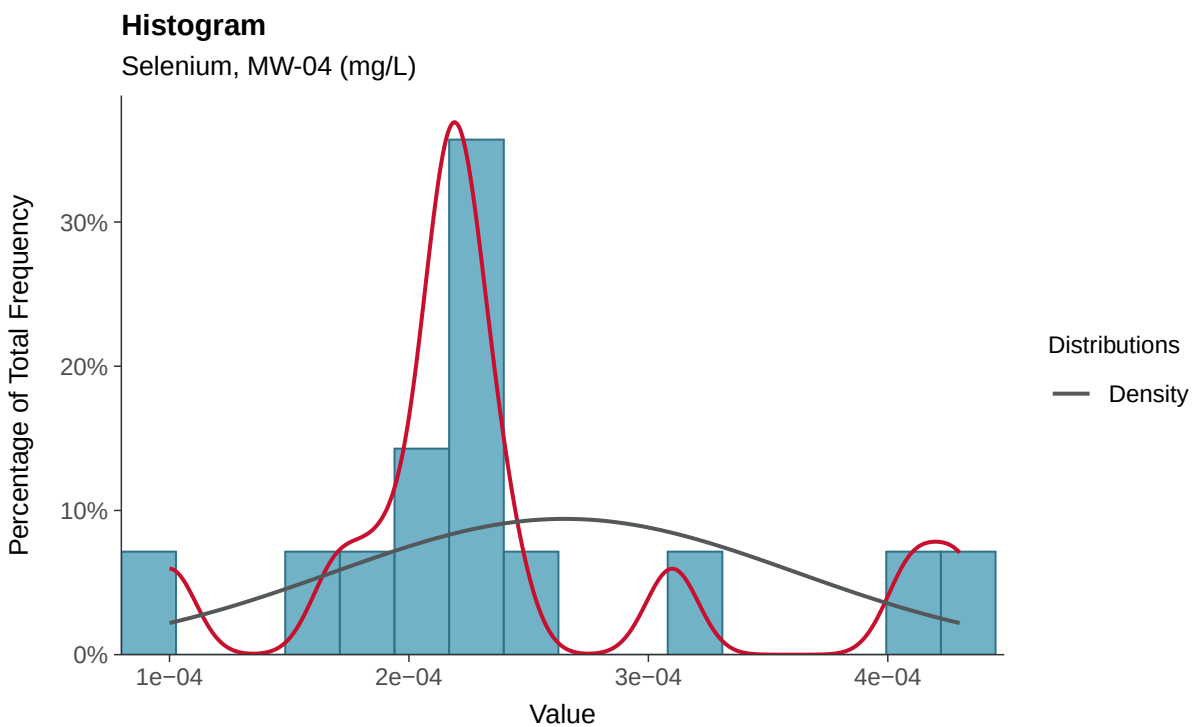
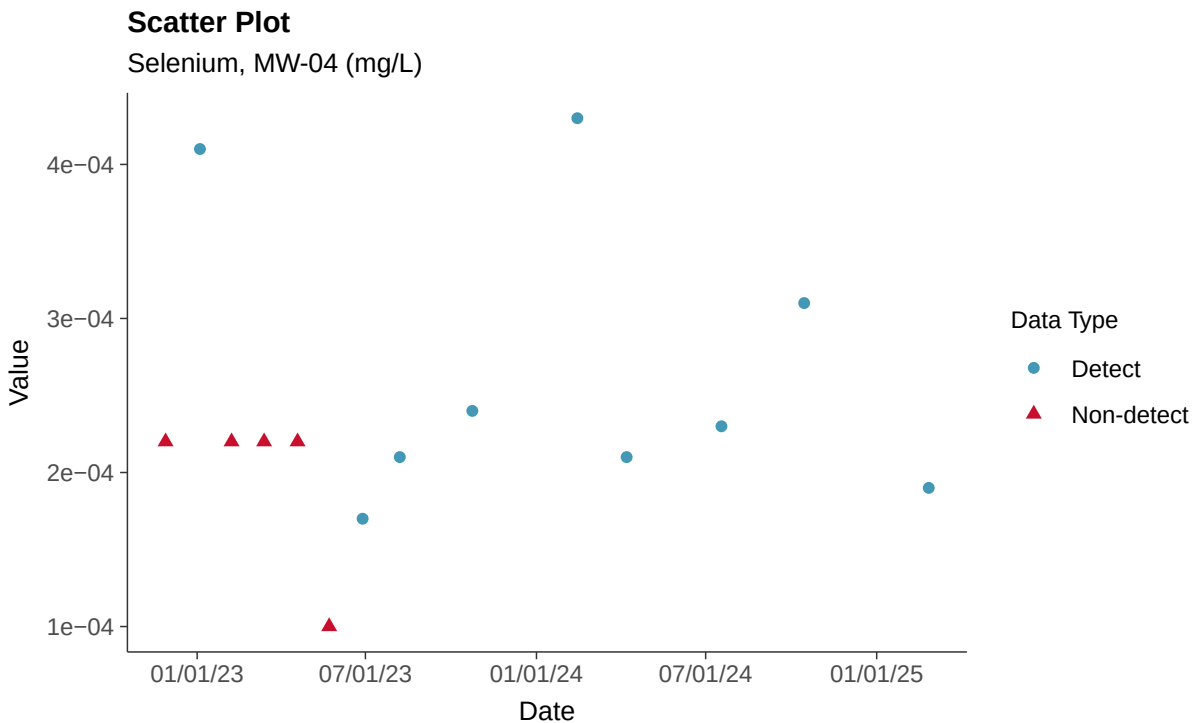


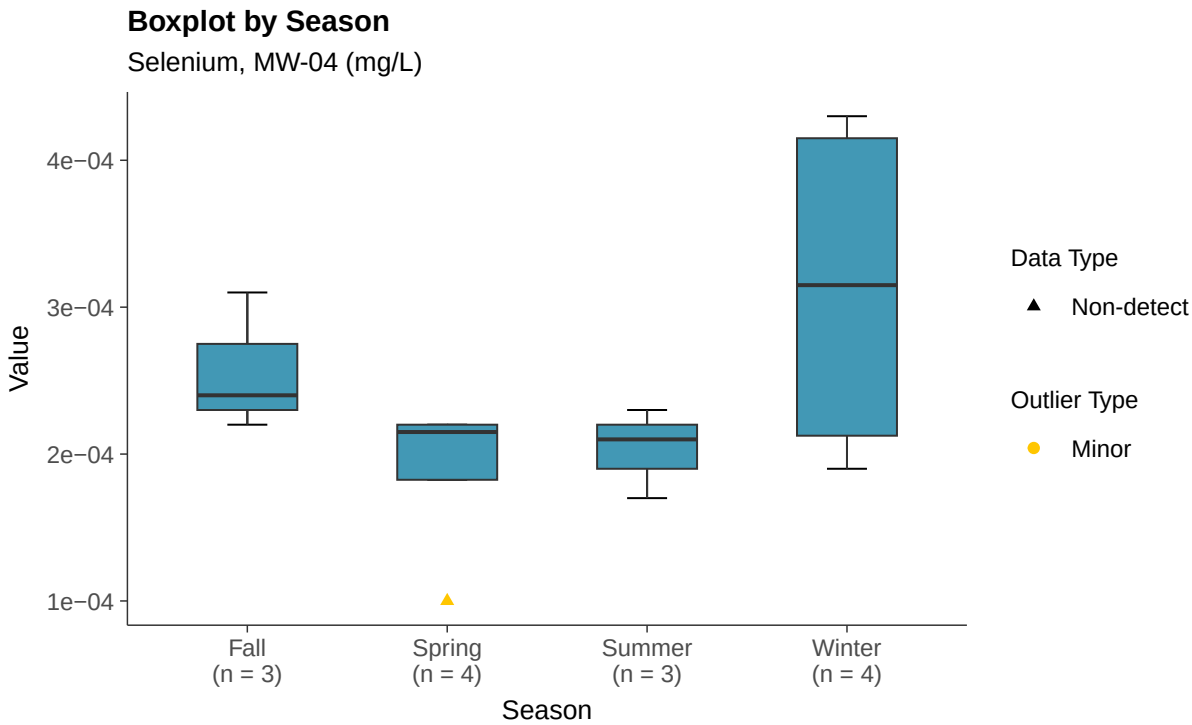
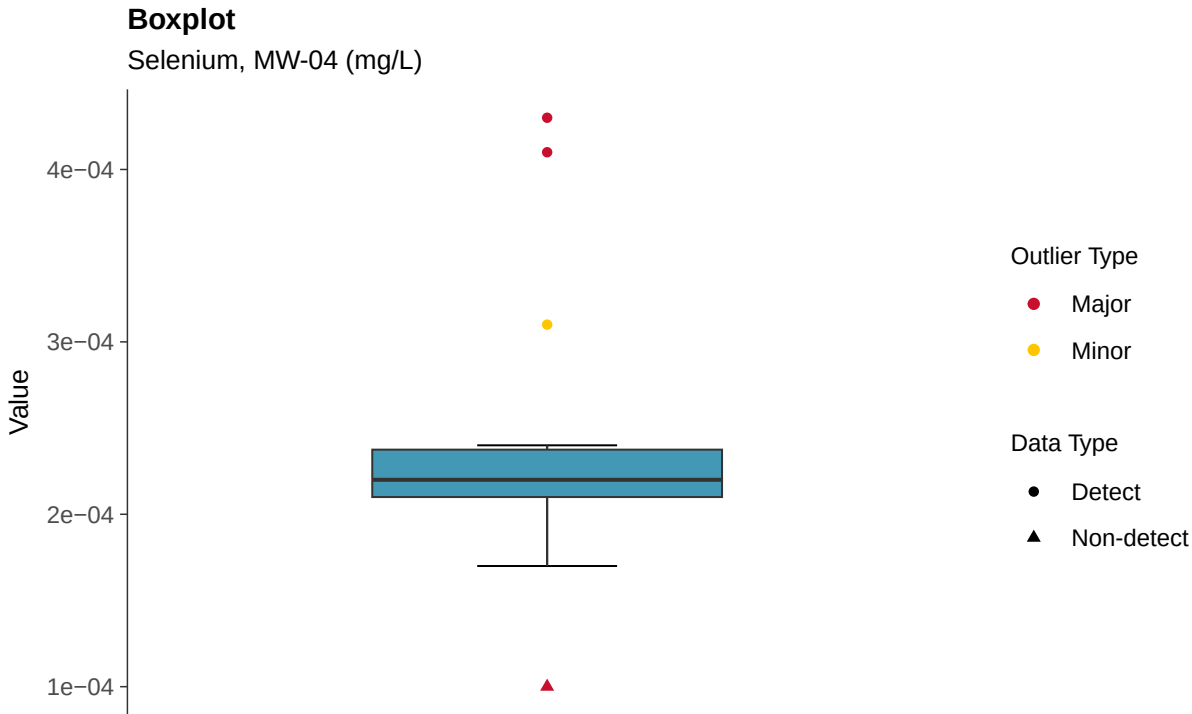




Appendix IV: Selenium, MW-04

ID: 14_2_4_122

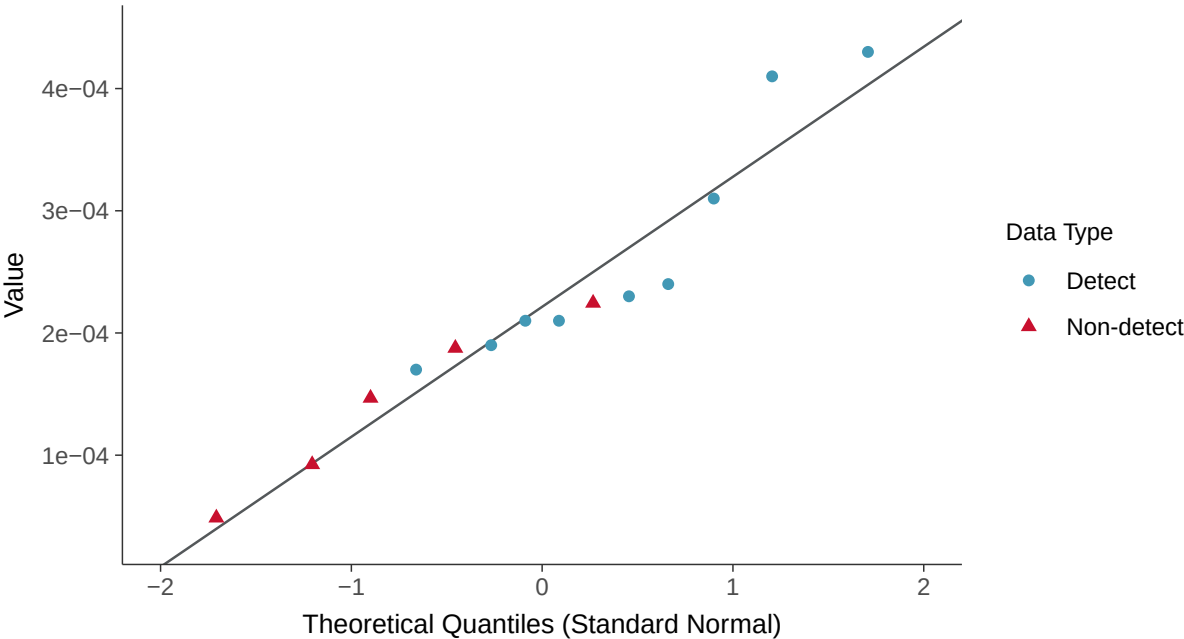






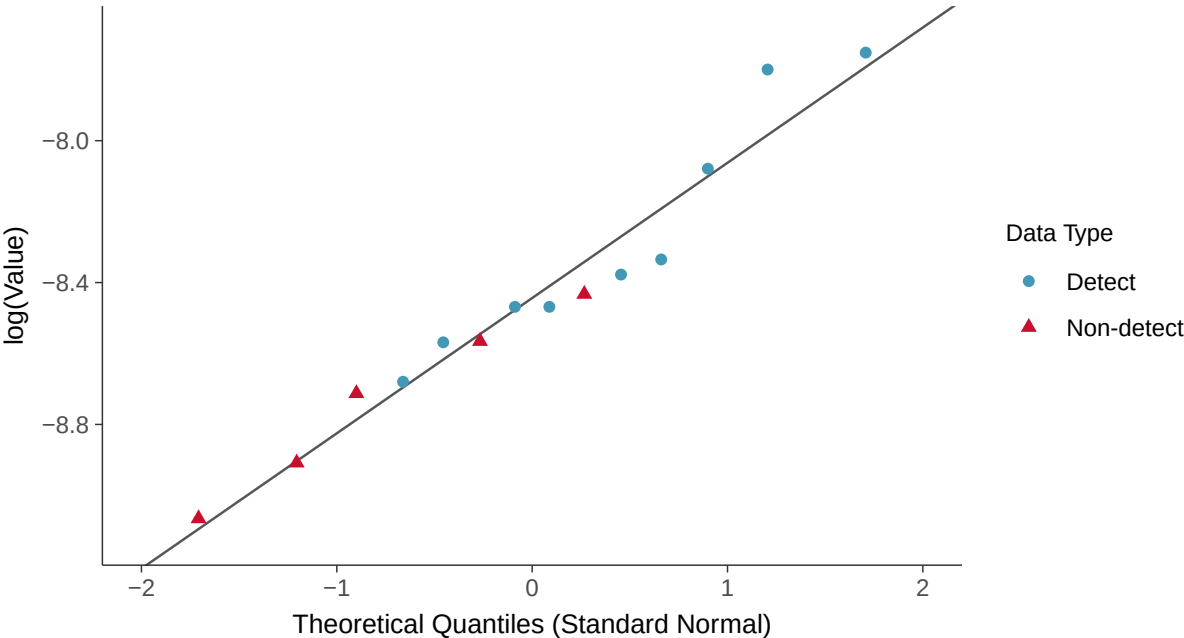
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-04 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

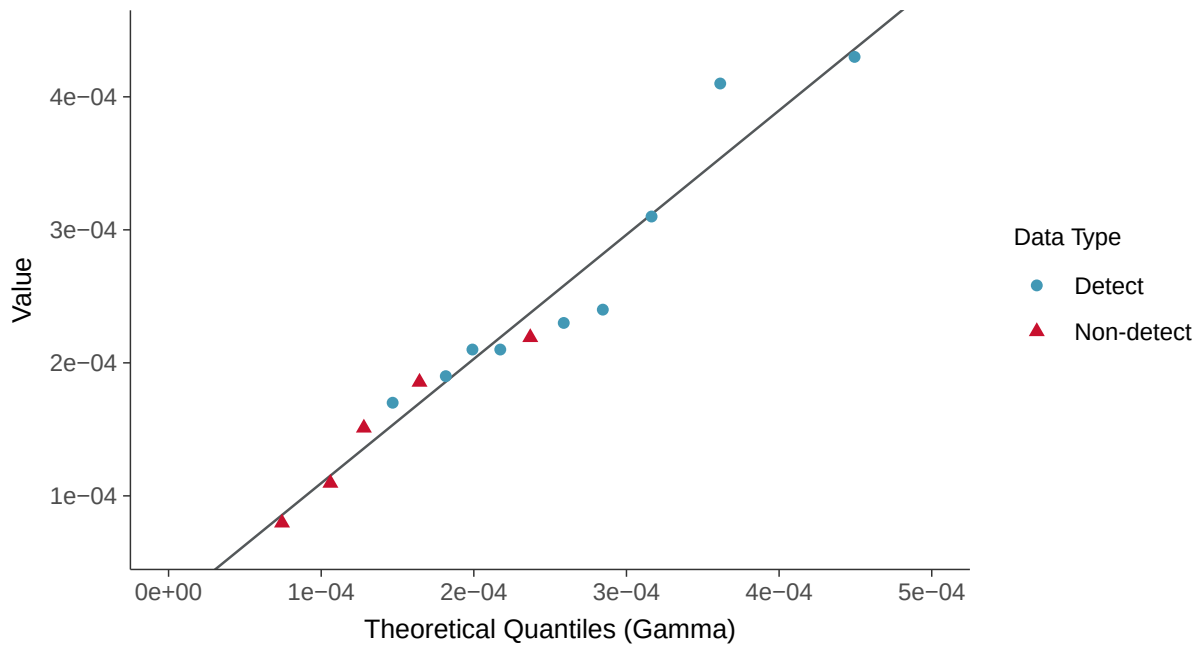
Selenium, MW-04 (mg/L)





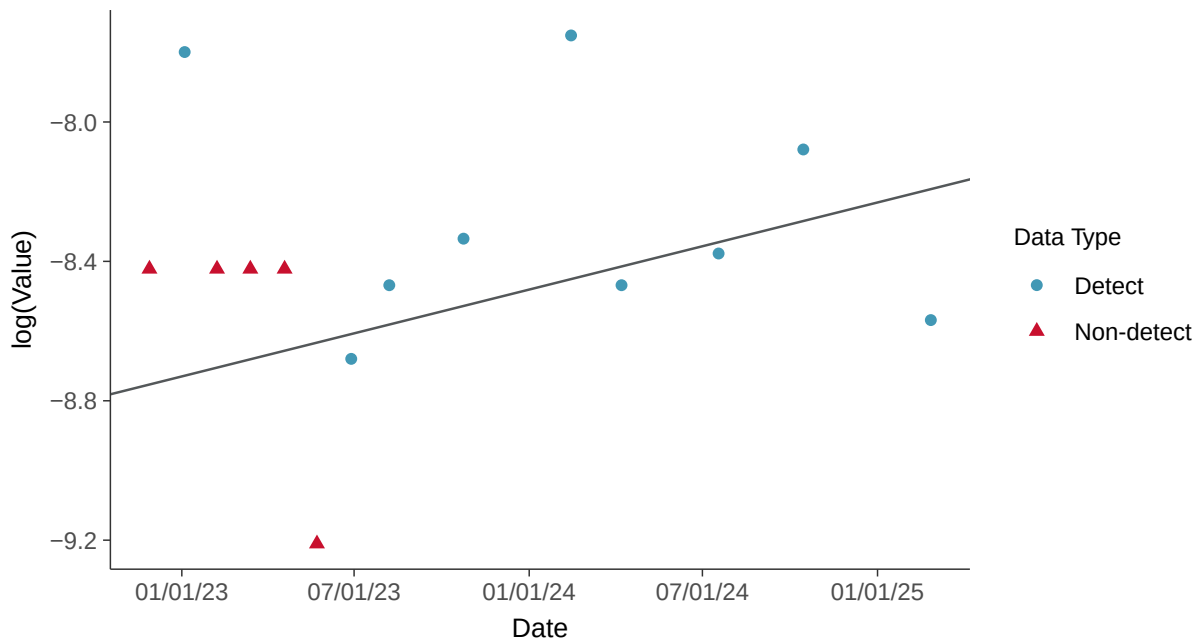
Gamma Q-Q plot using ROS Imputed Estimates

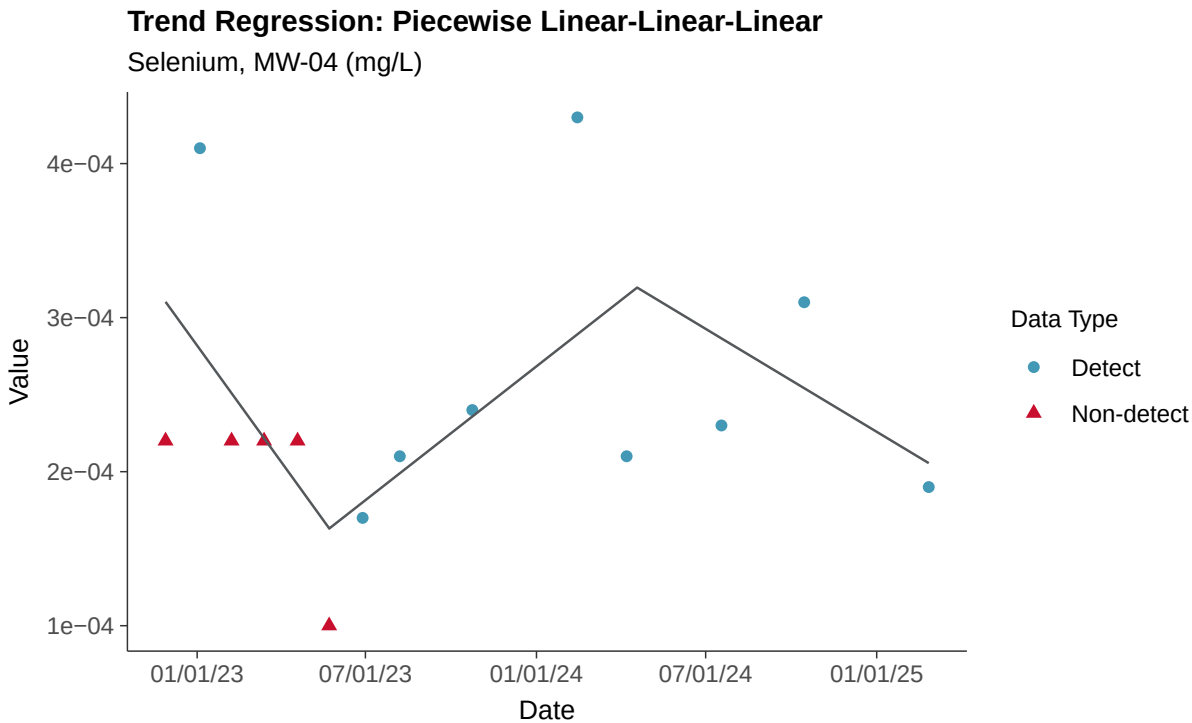
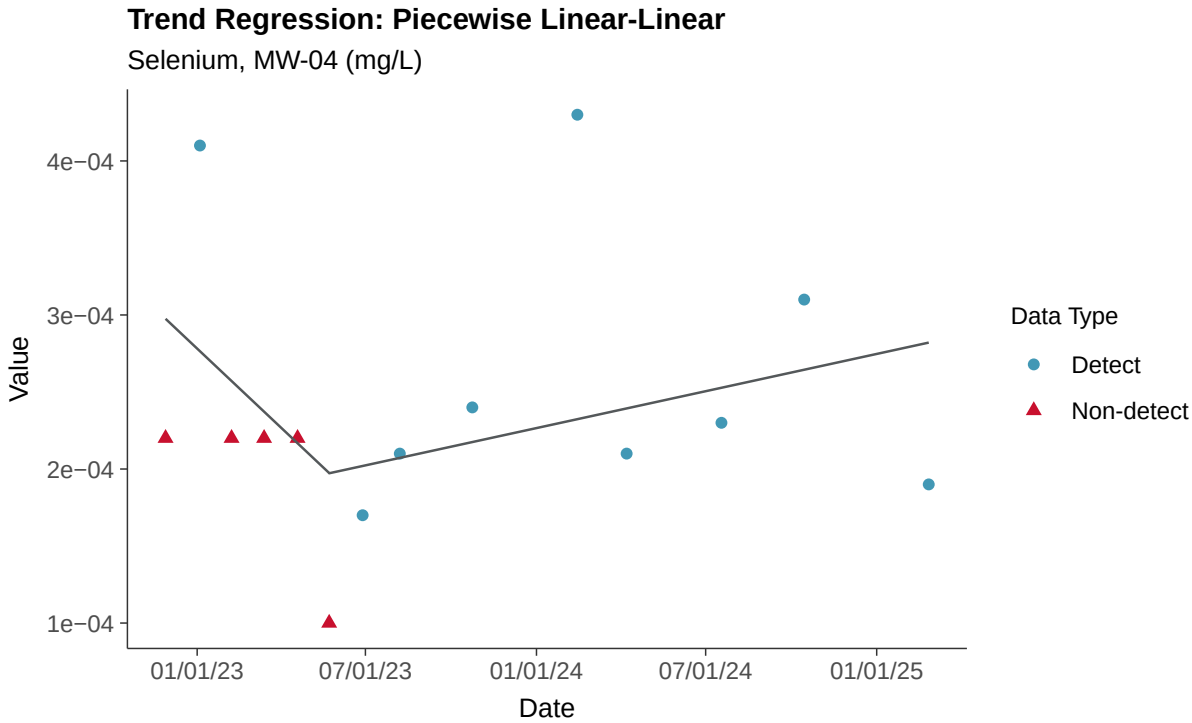
Selenium, MW-04 (mg/L)



Trend Regression: Lognormal MLE

Selenium, MW-04 (mg/L)

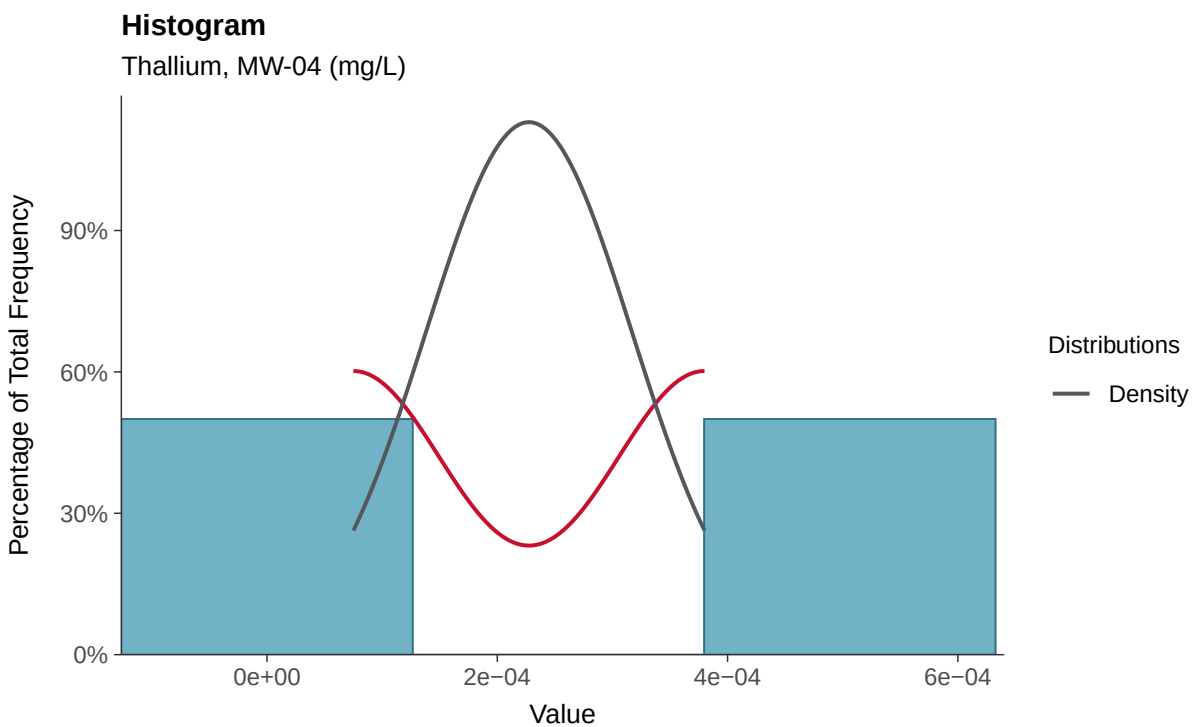
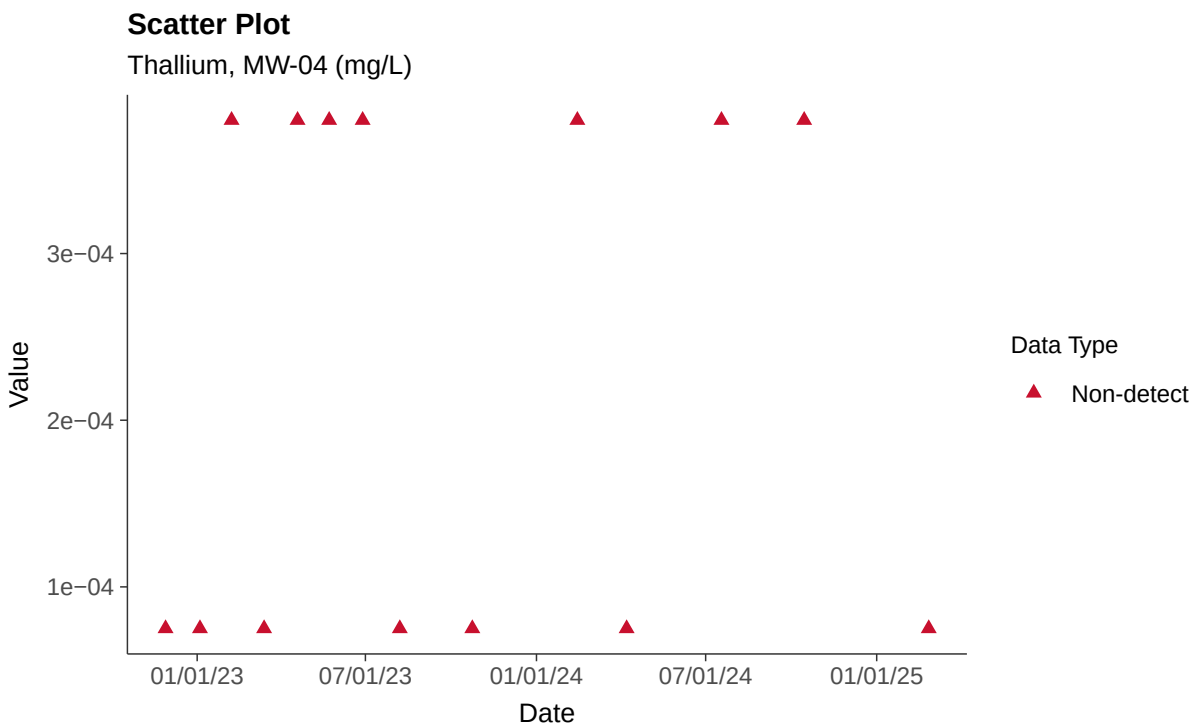


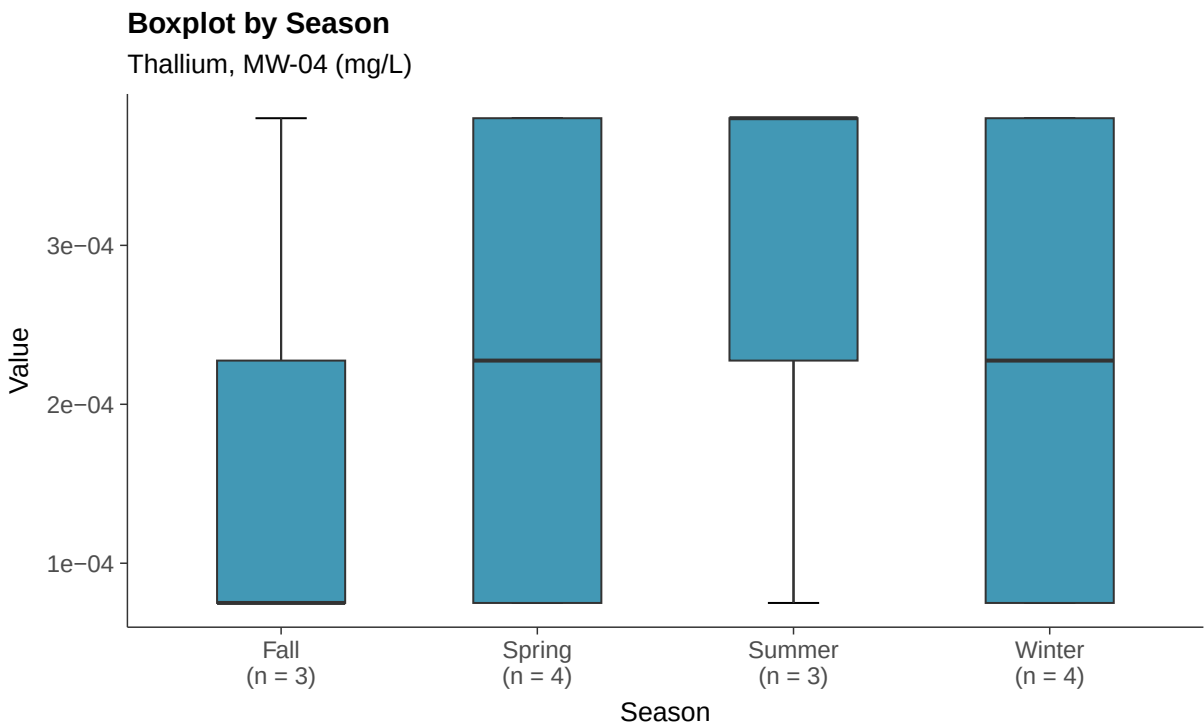
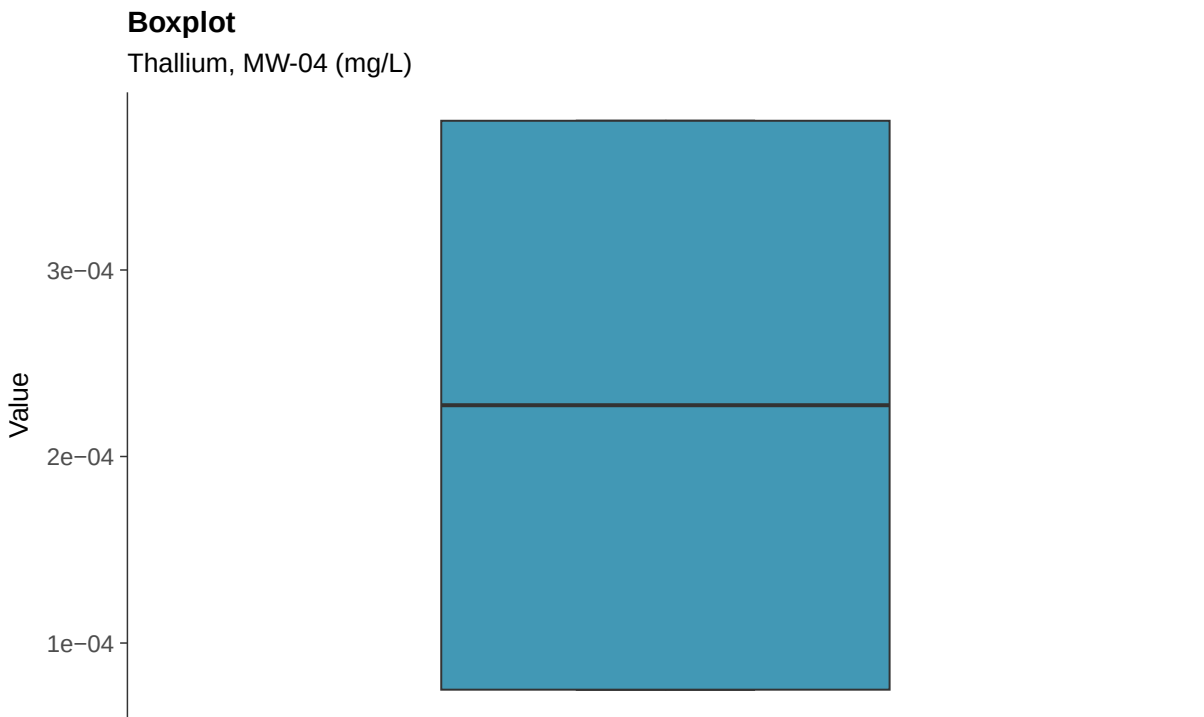


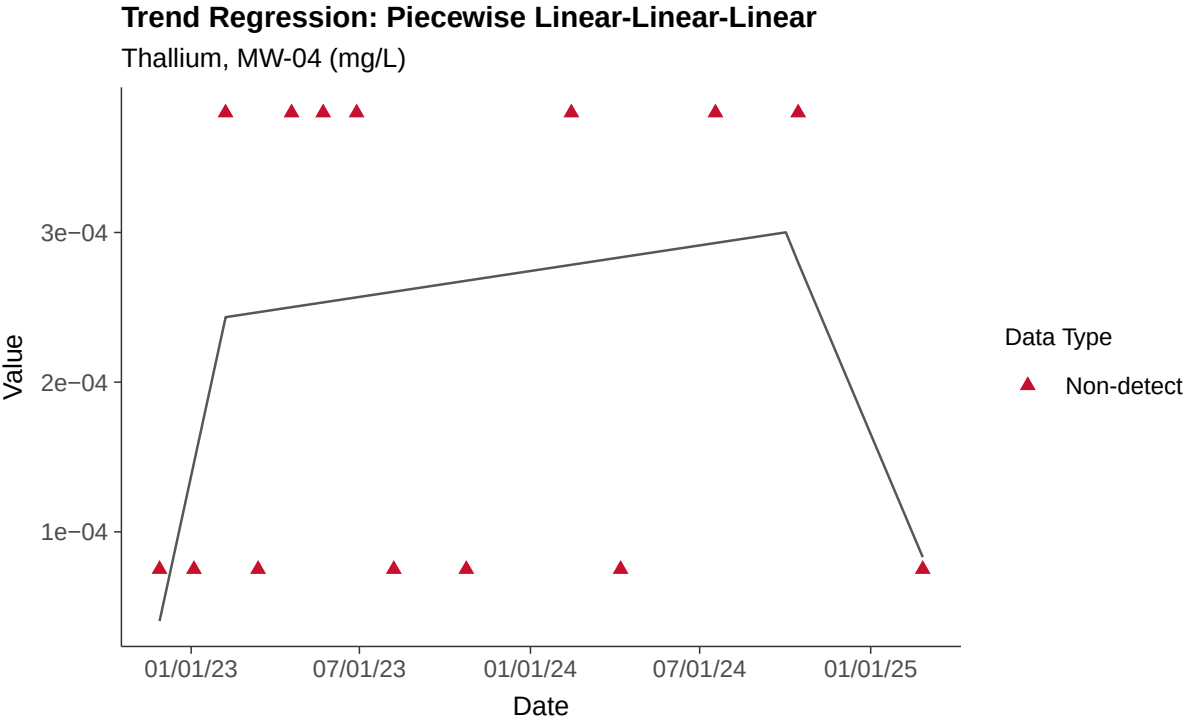


Appendix IV: Thallium, MW-04

ID: 14_2_4_125



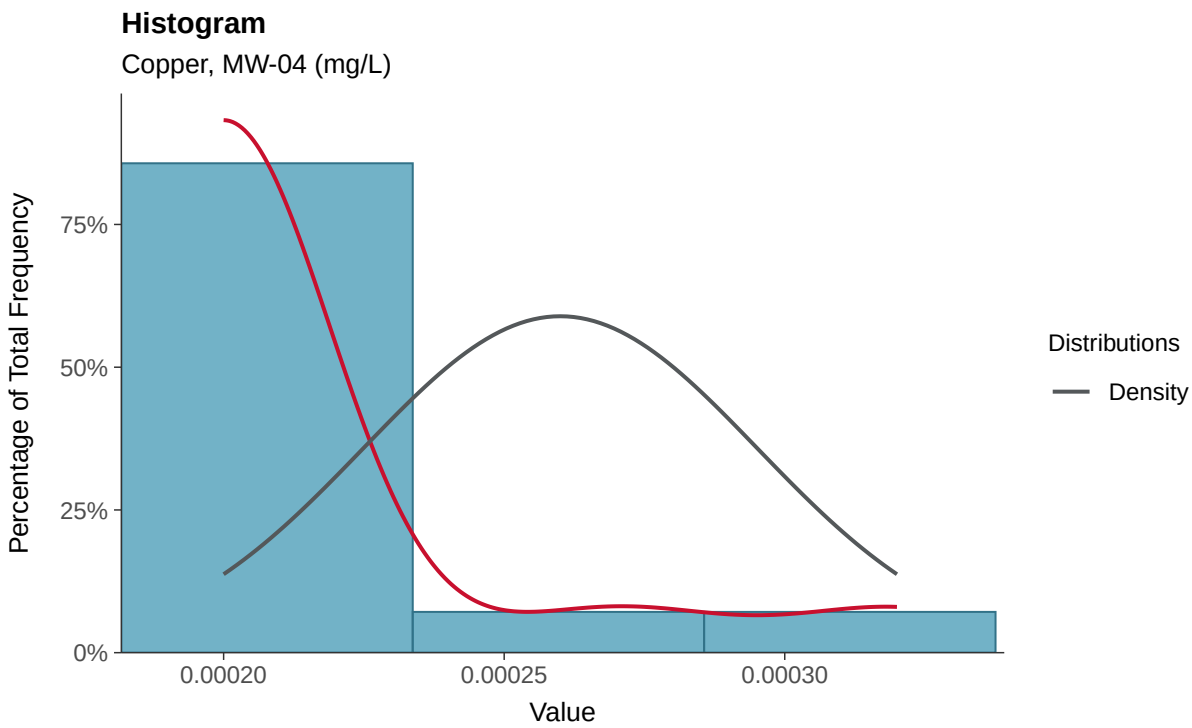
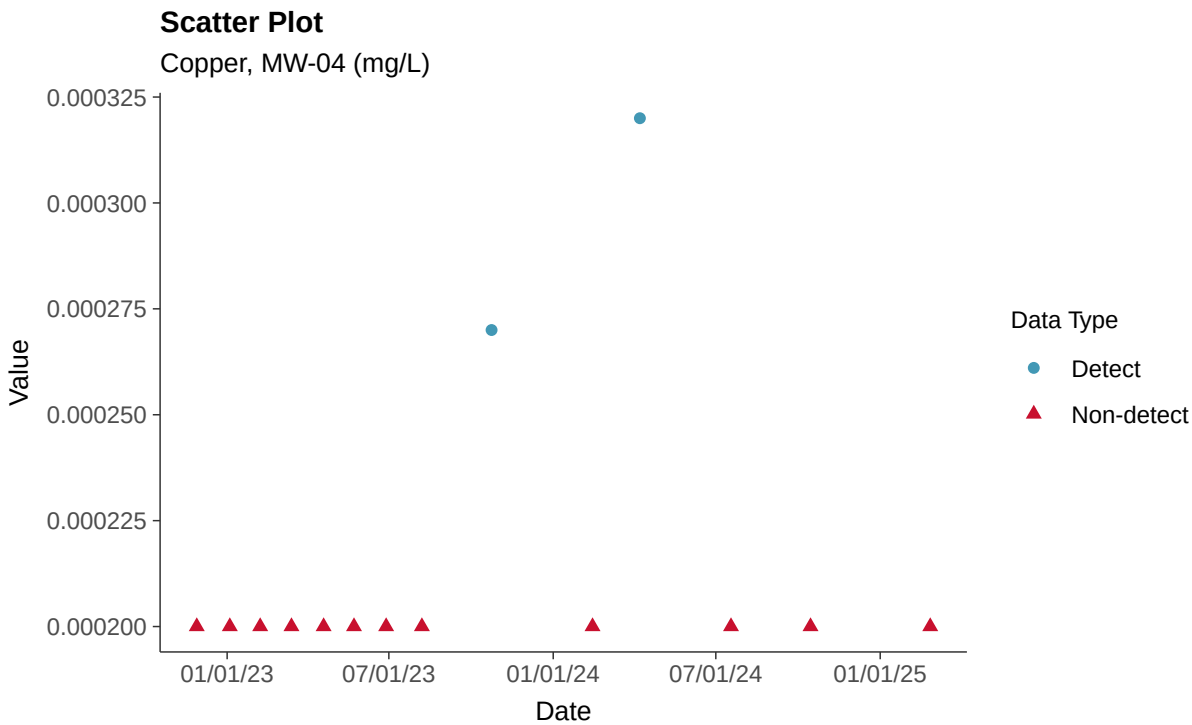


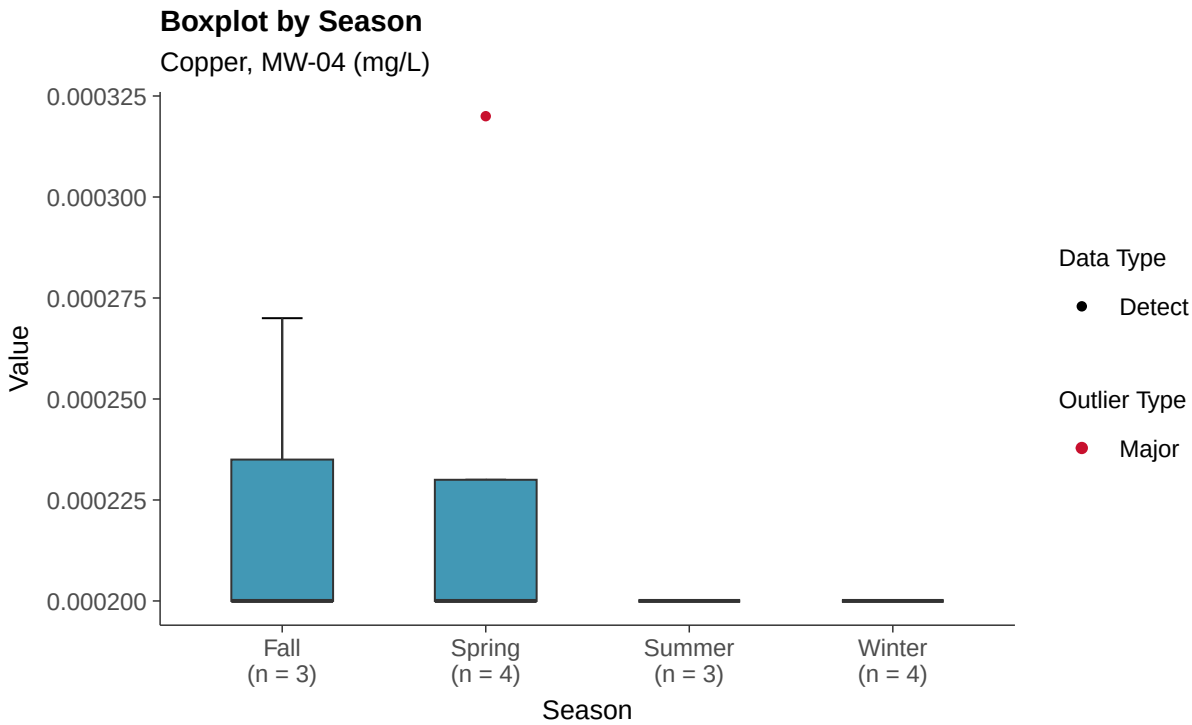
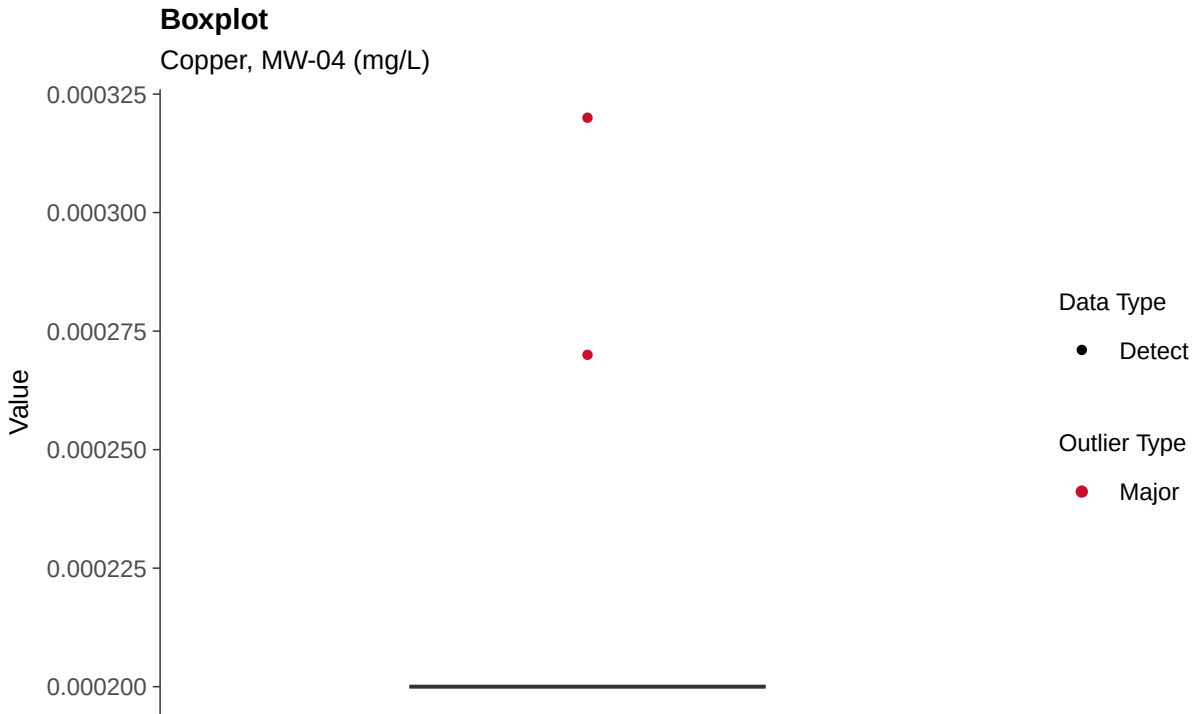


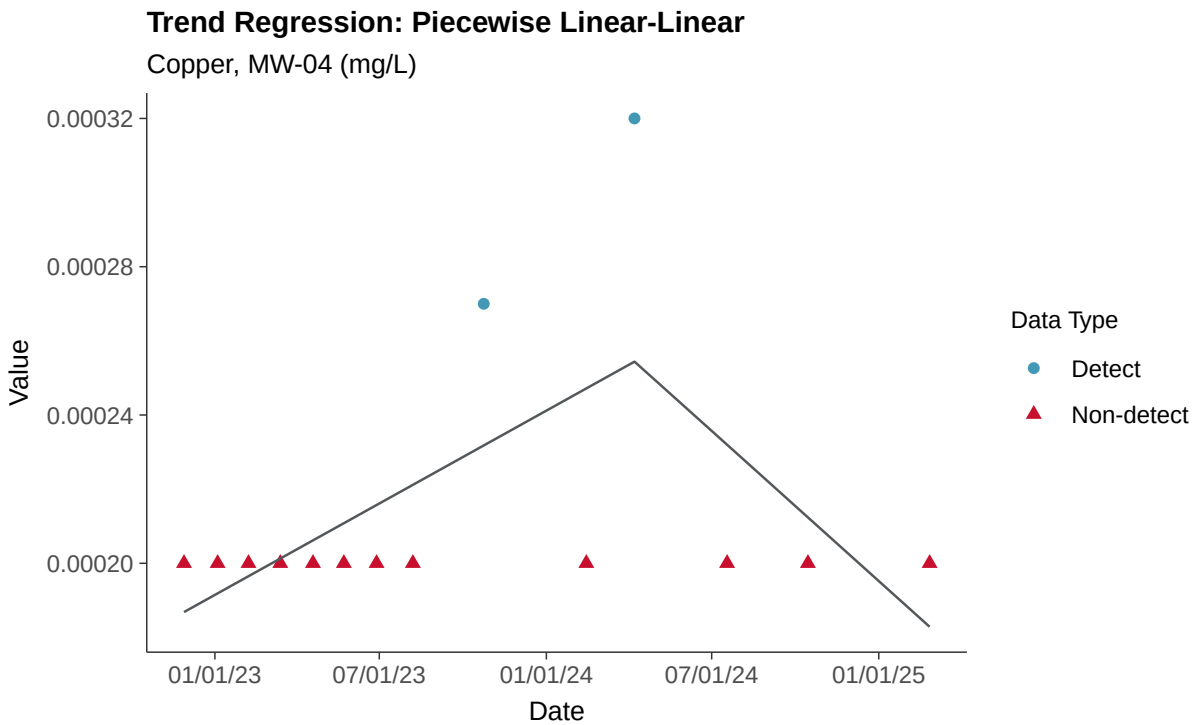
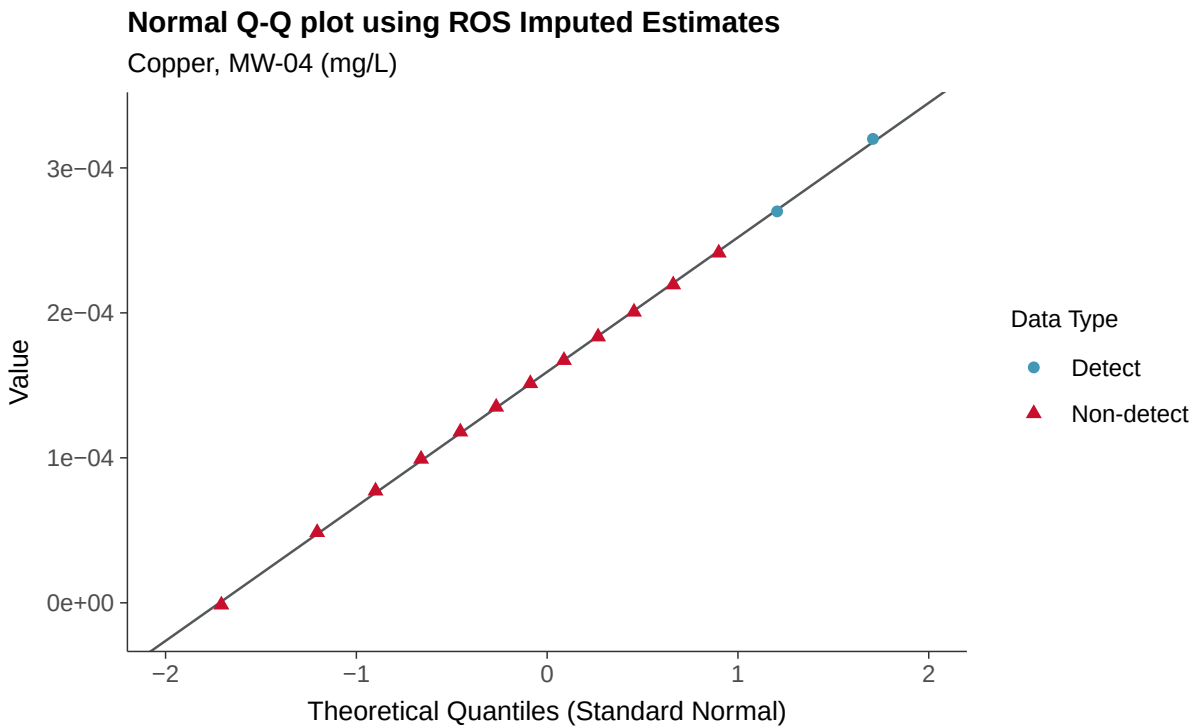


Part 115: Copper, MW-04

ID: 14_2_5_111



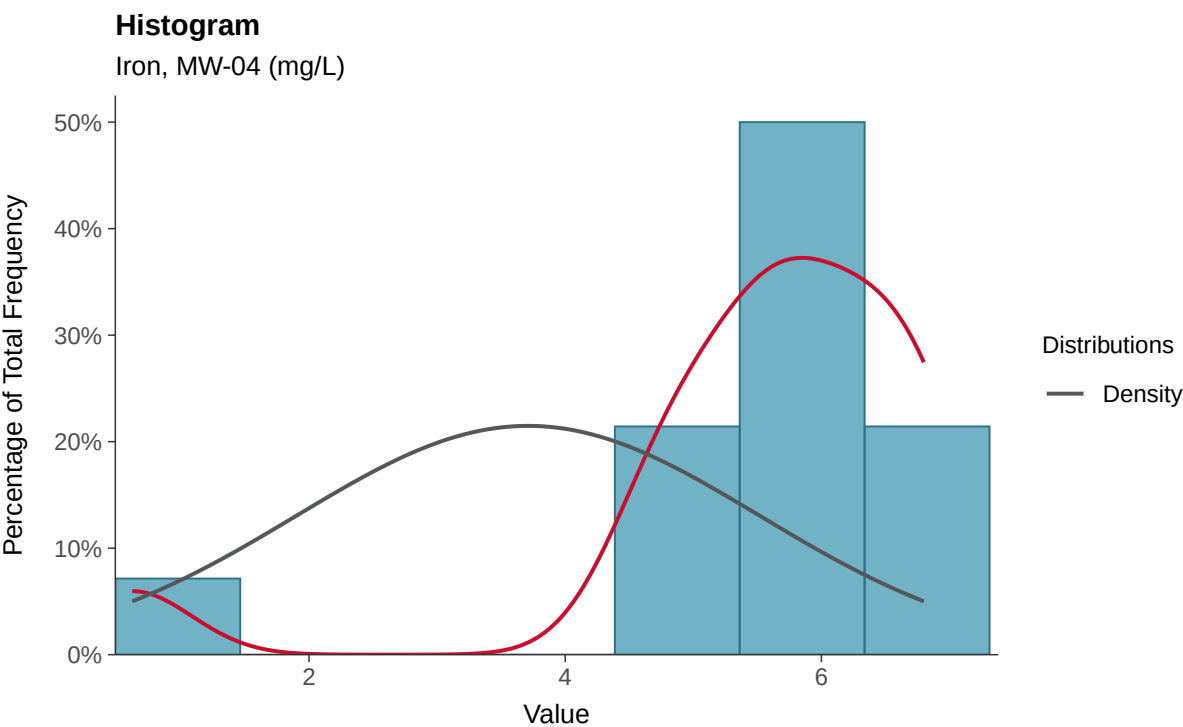
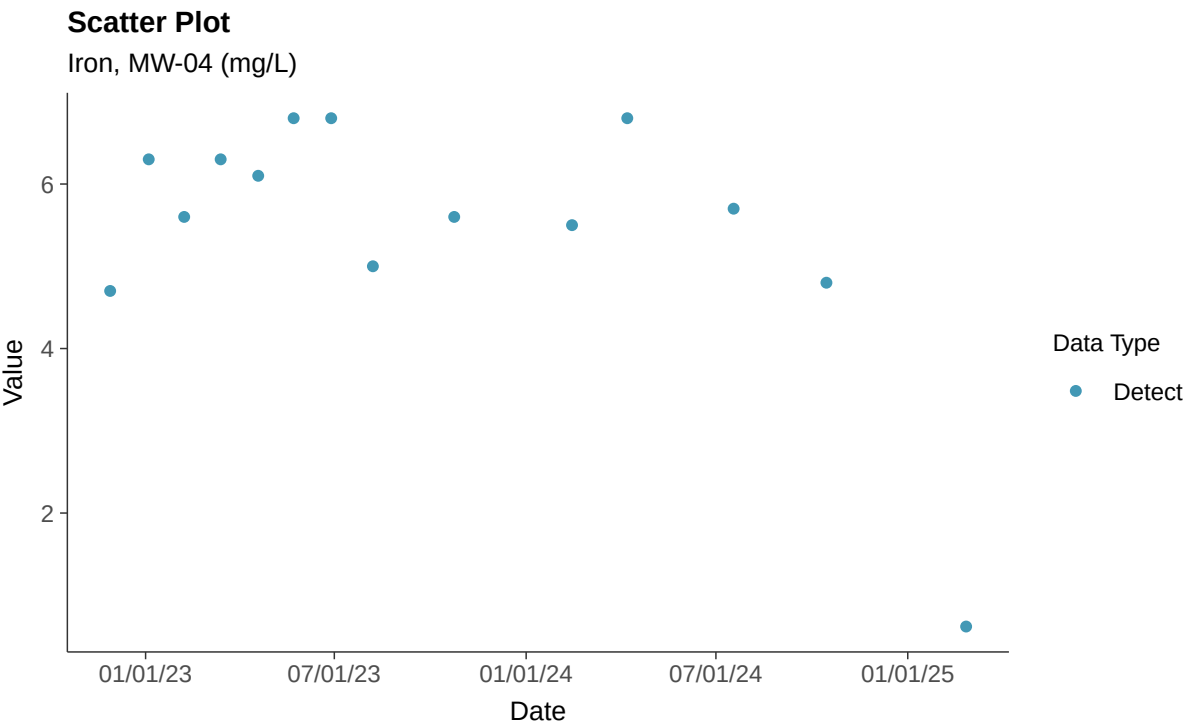


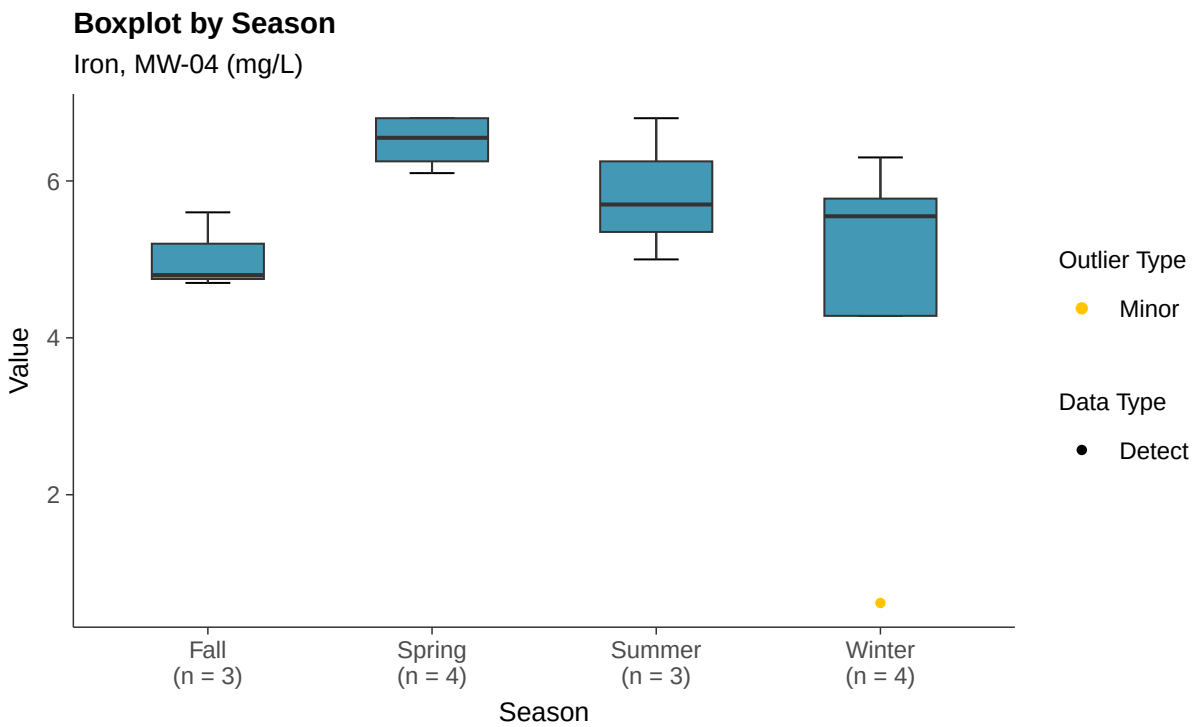
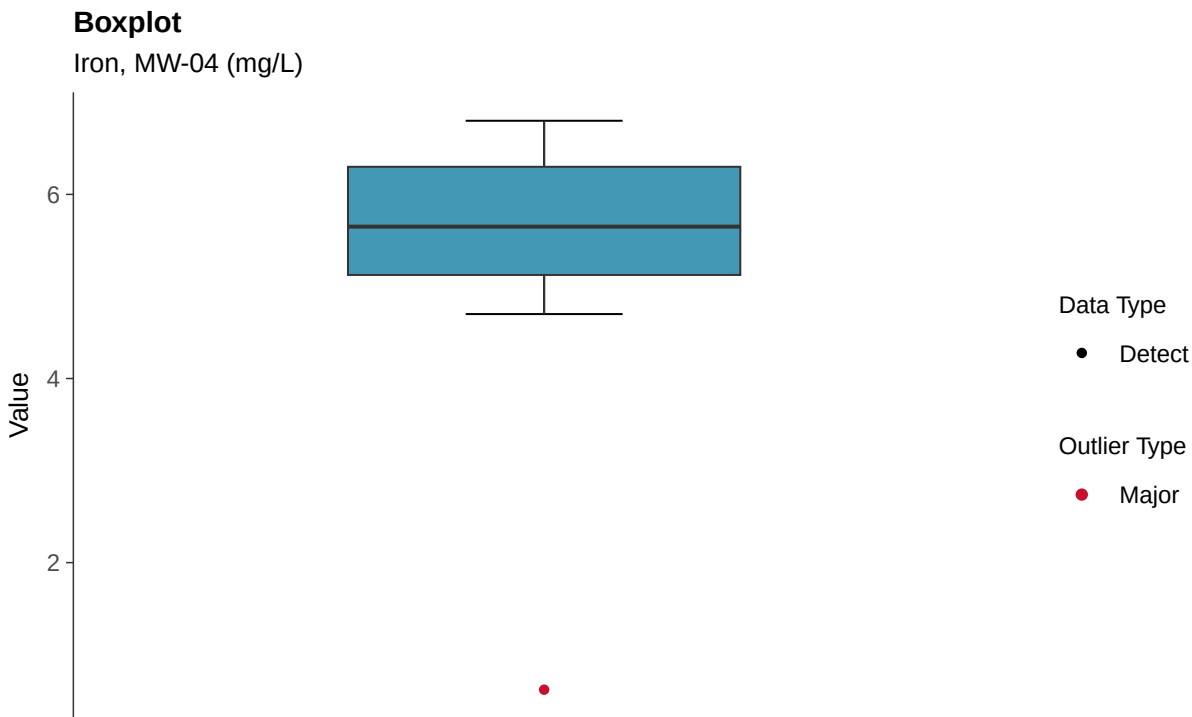


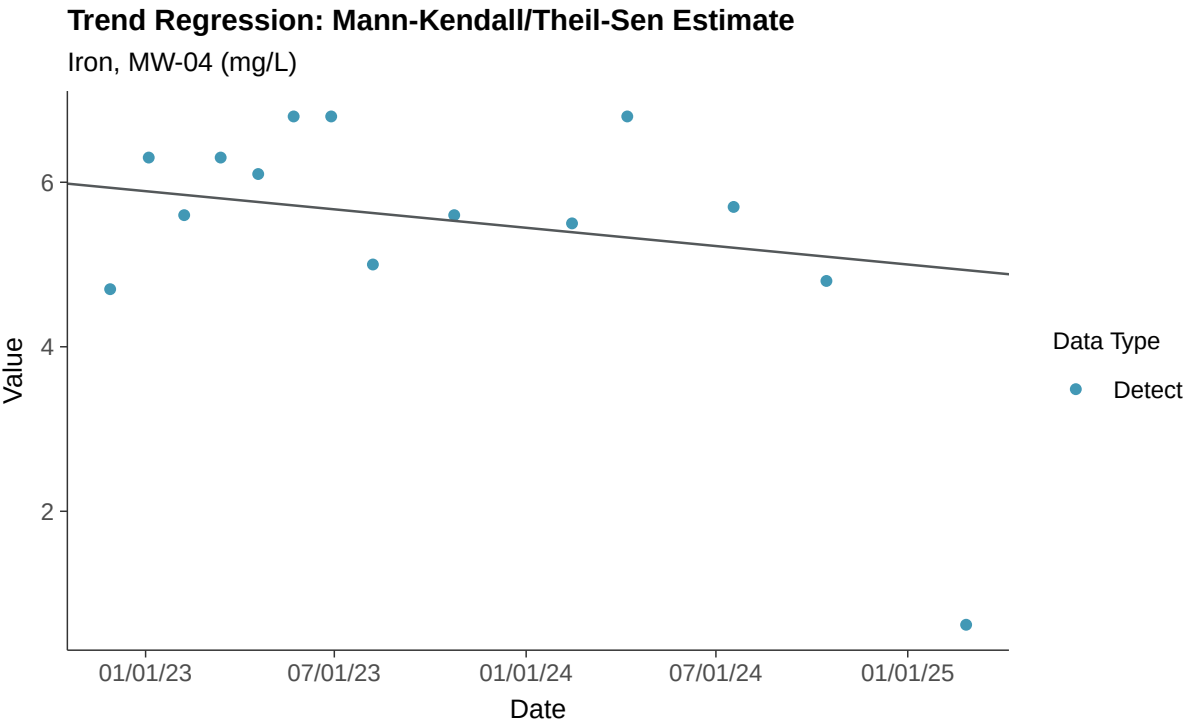
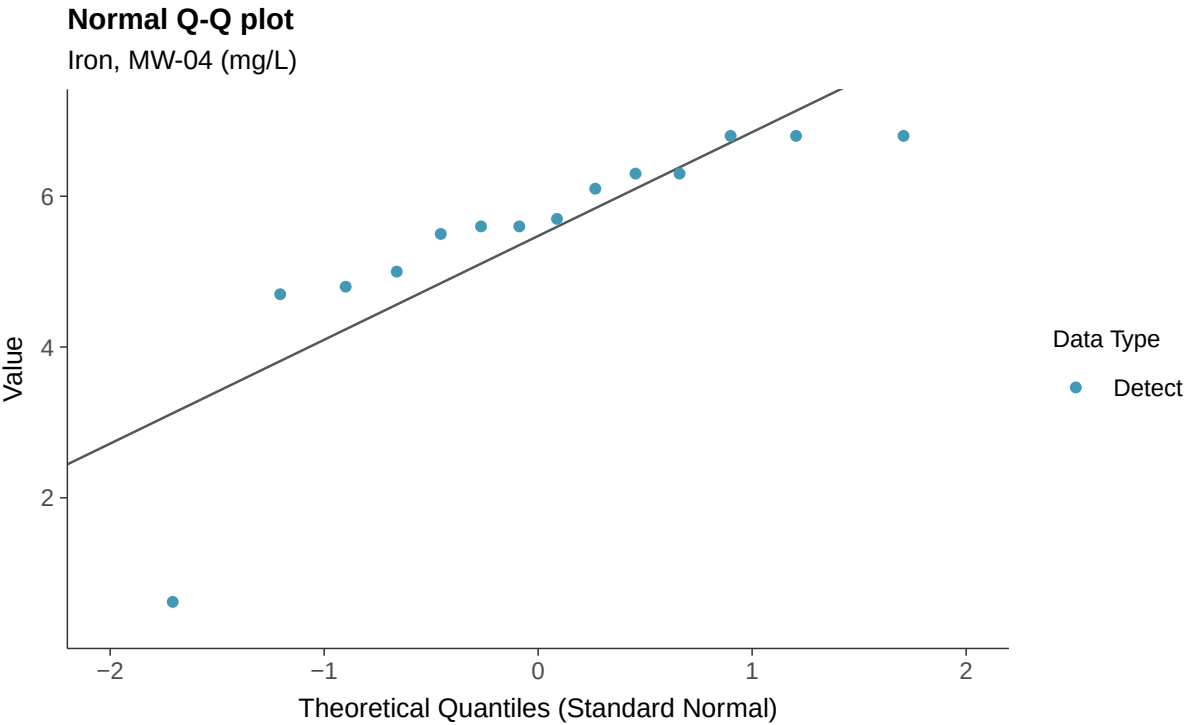


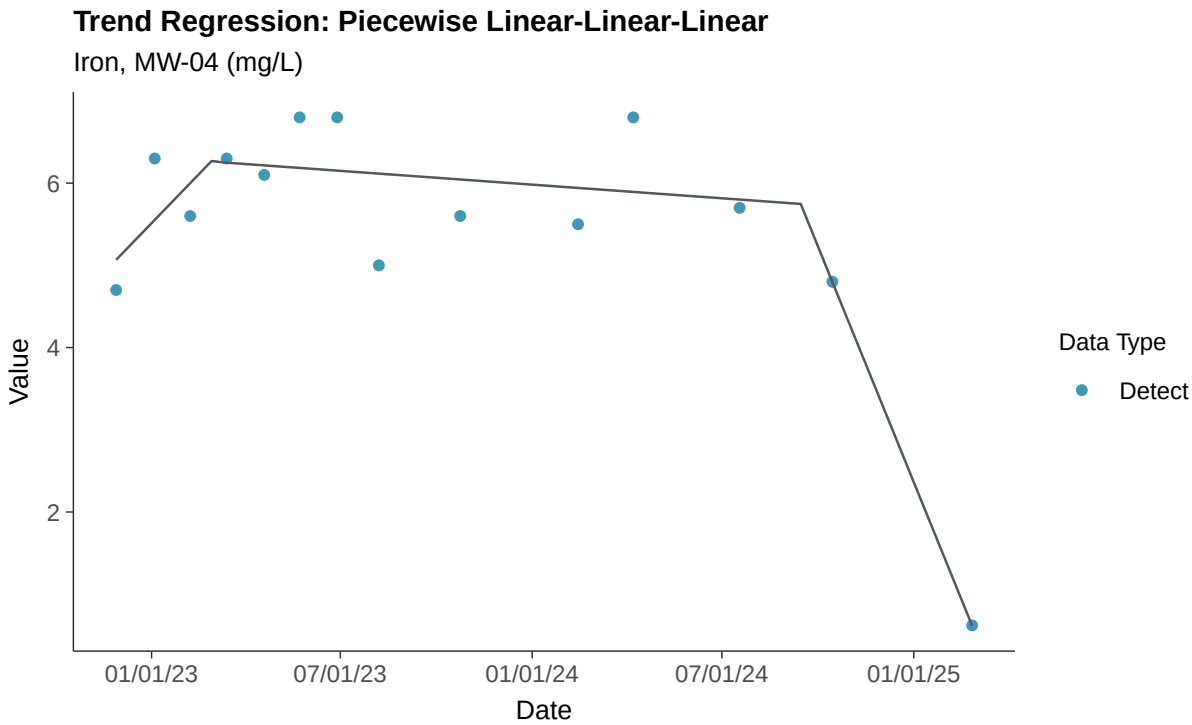
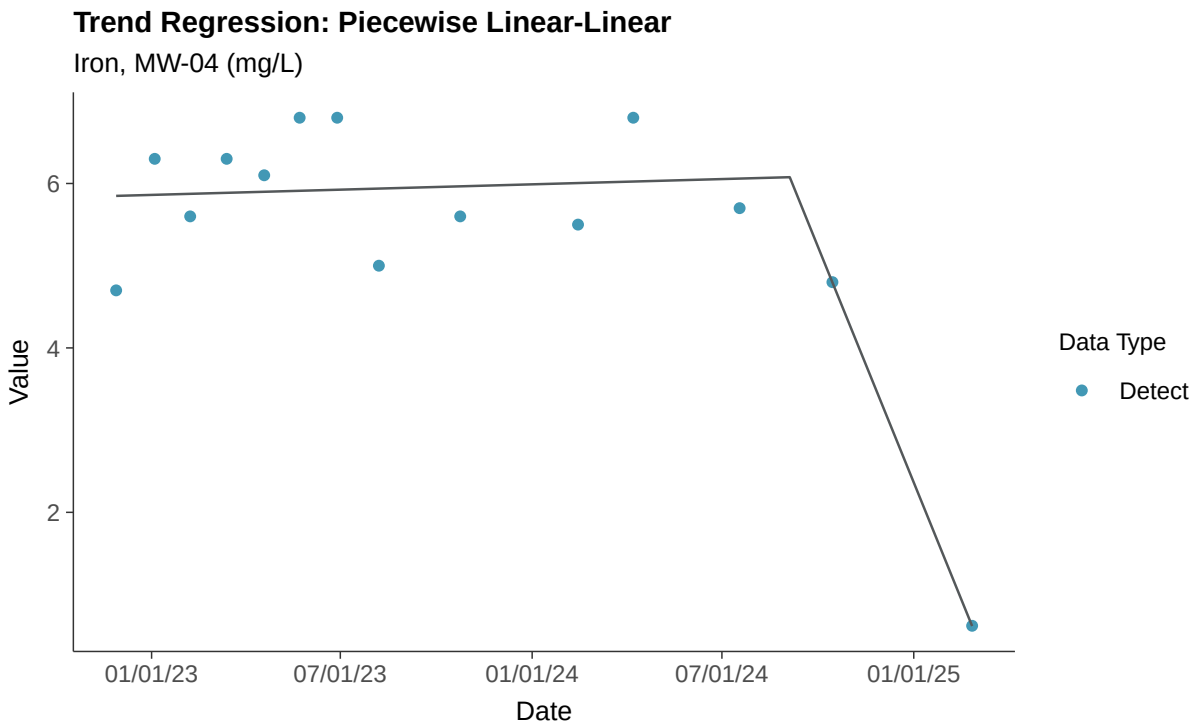
Part 115: Iron, MW-04

ID: 14_2_5_114





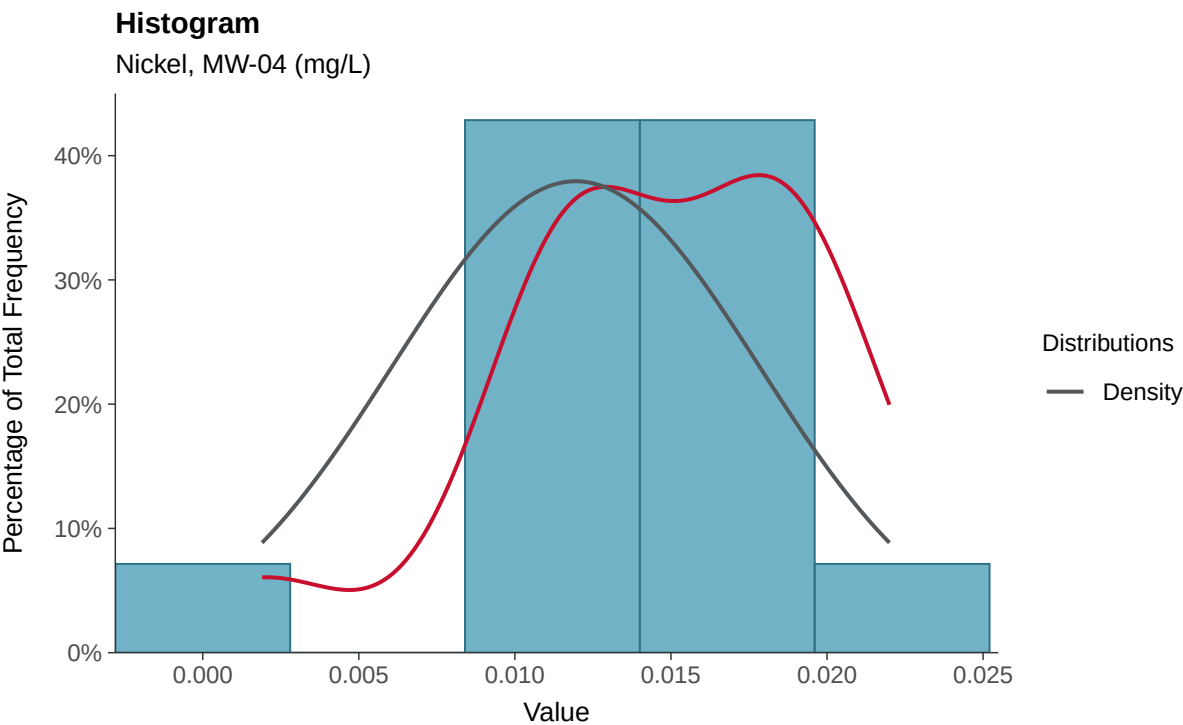
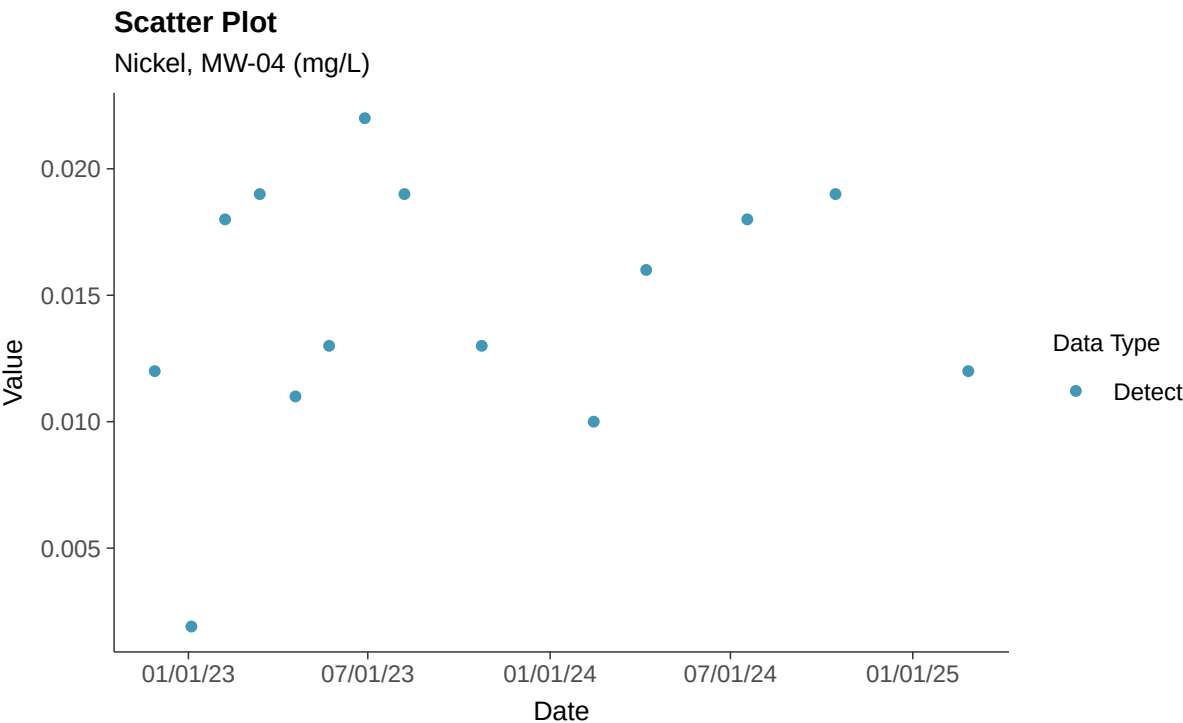


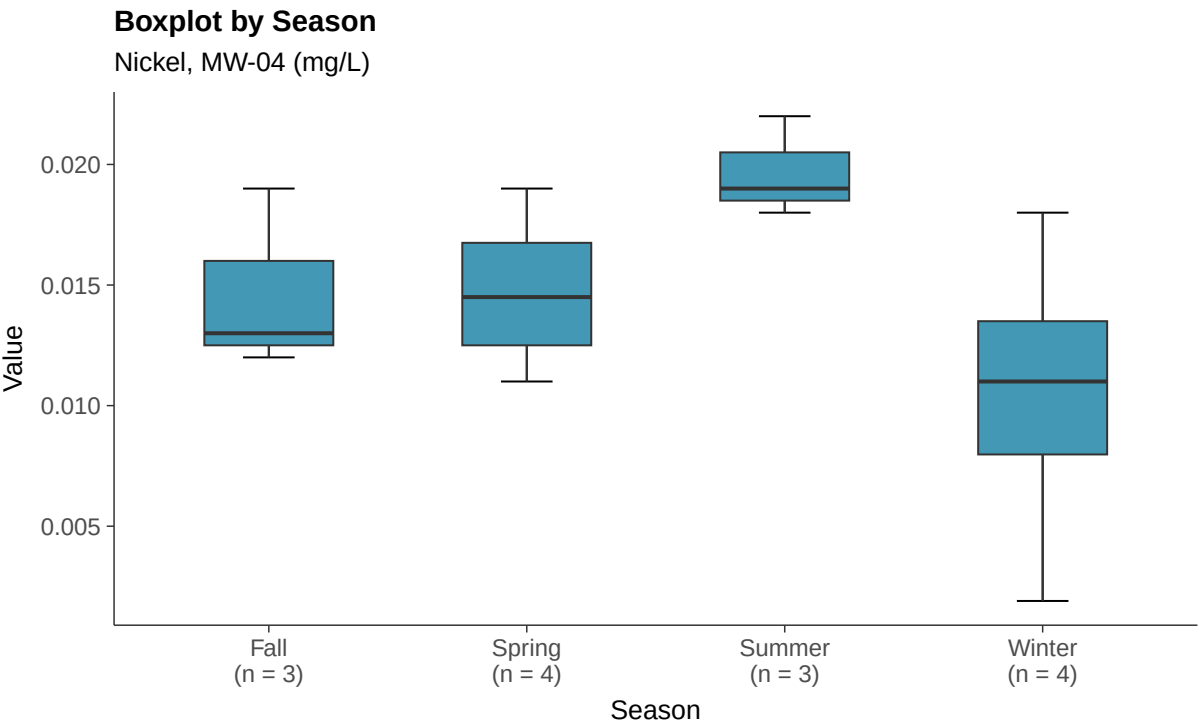
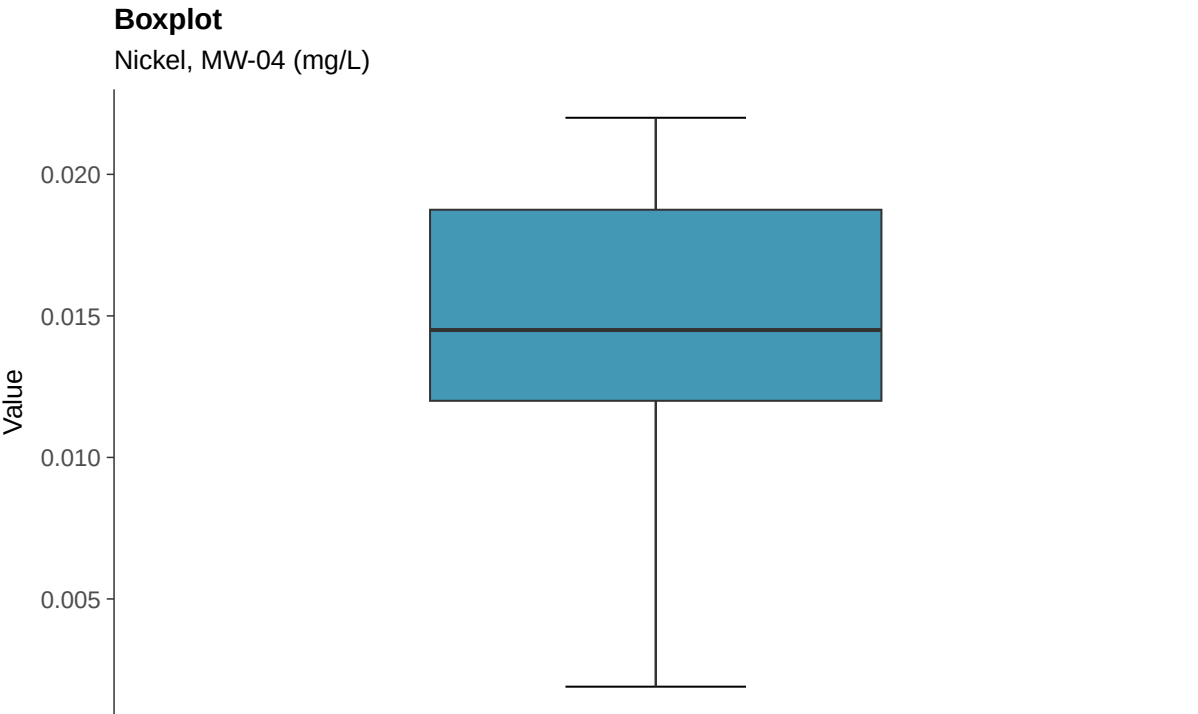


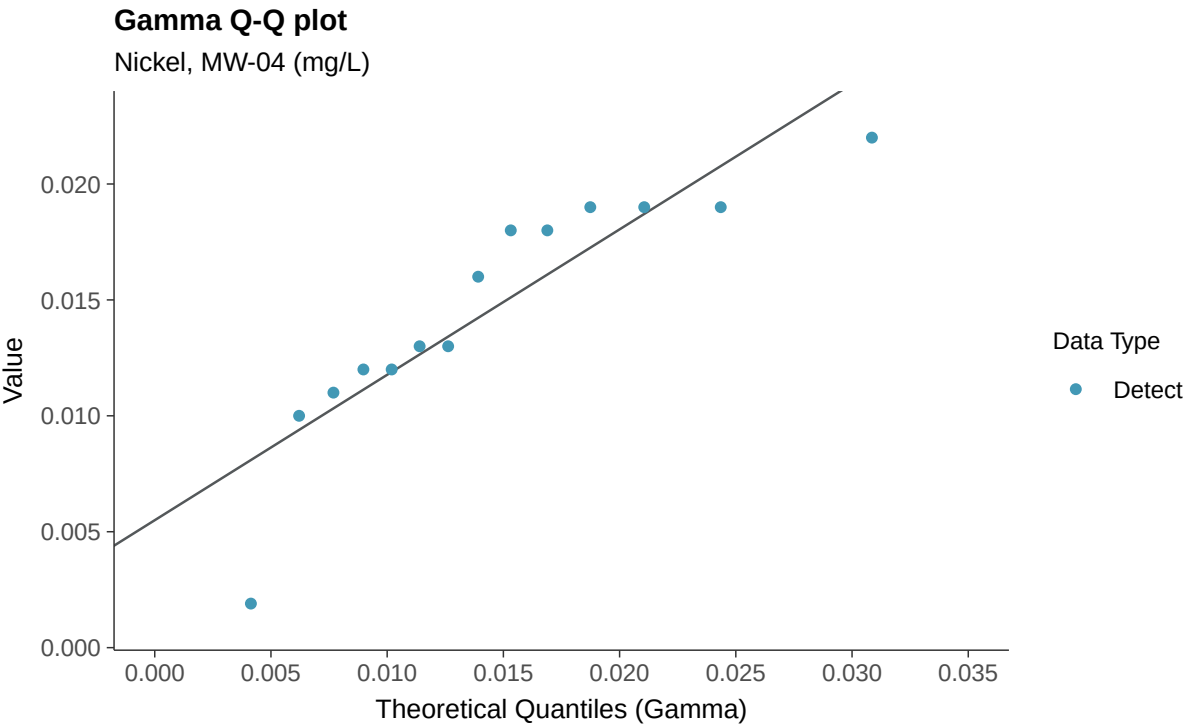
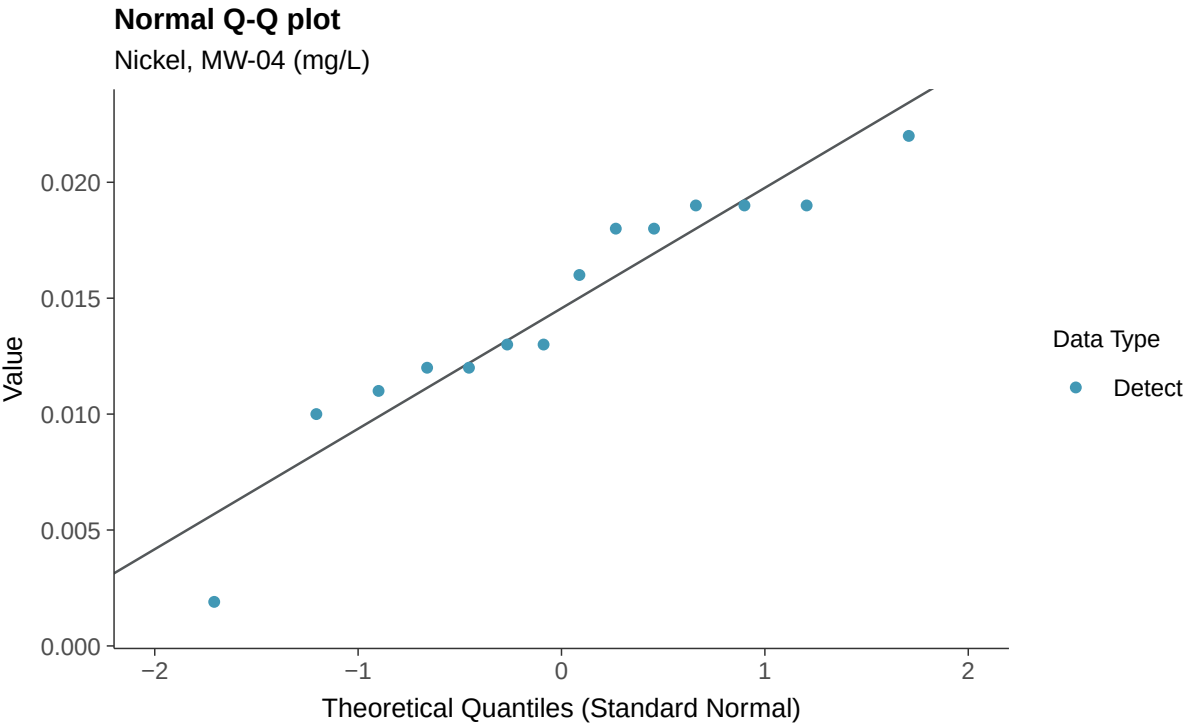


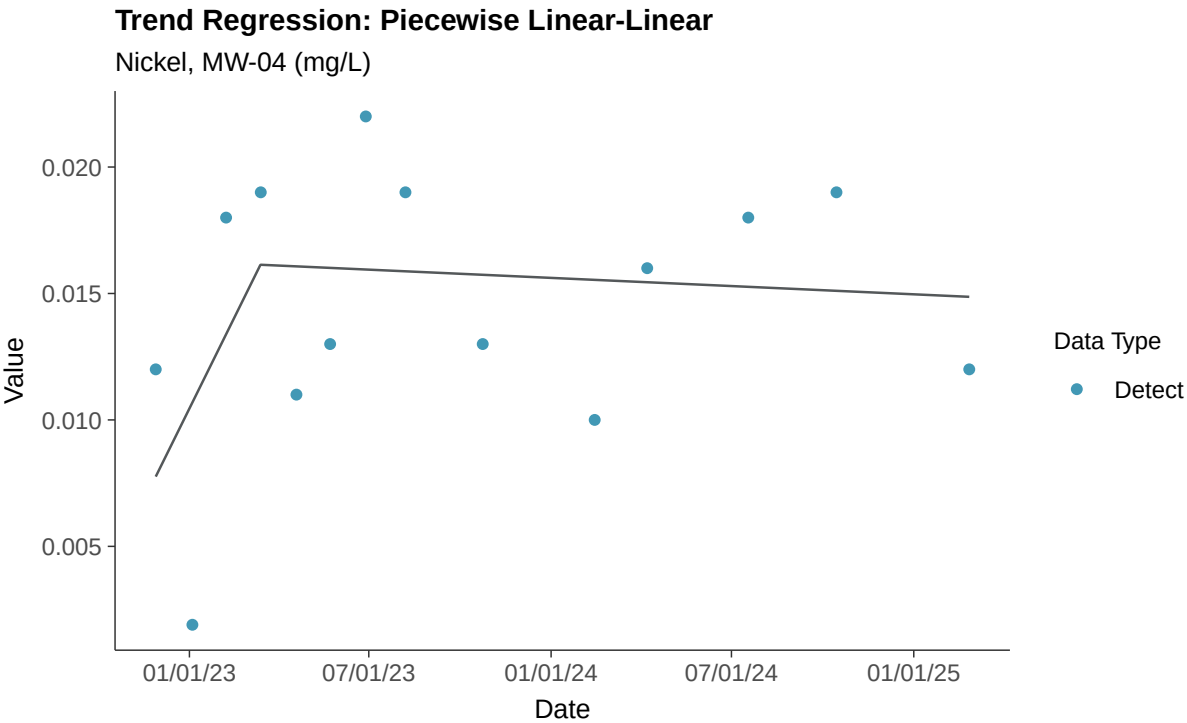
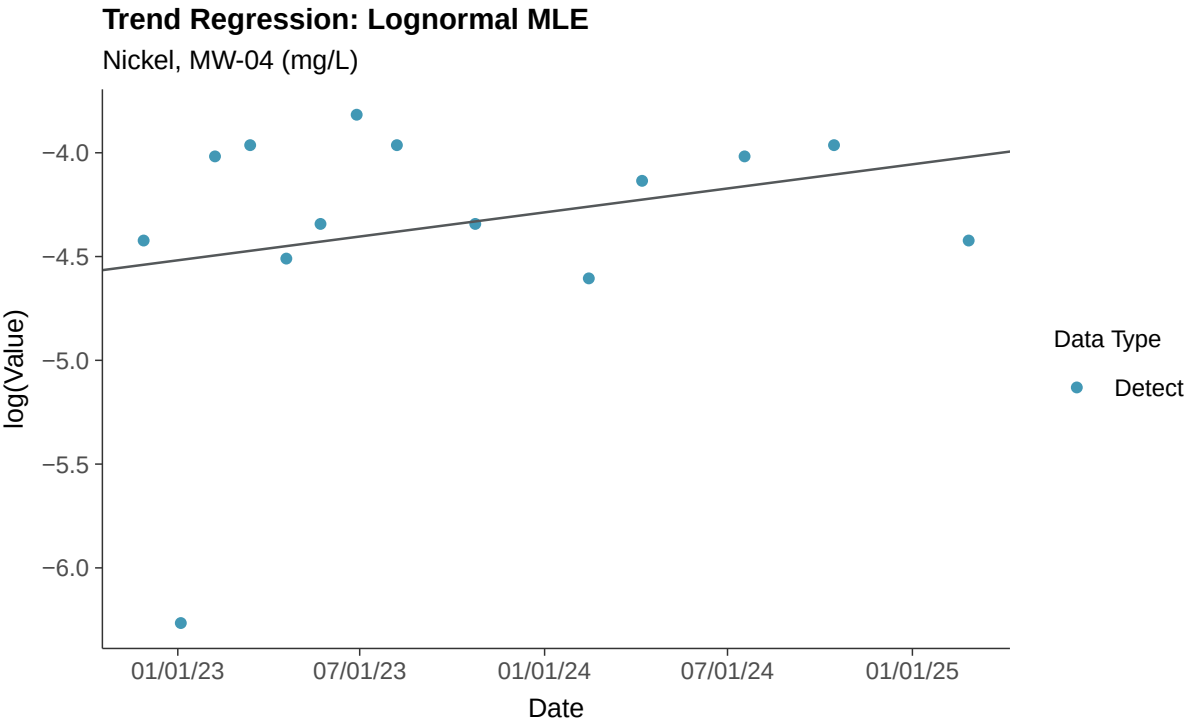
Part 115: Nickel, MW-04

ID: 14_2_5_119





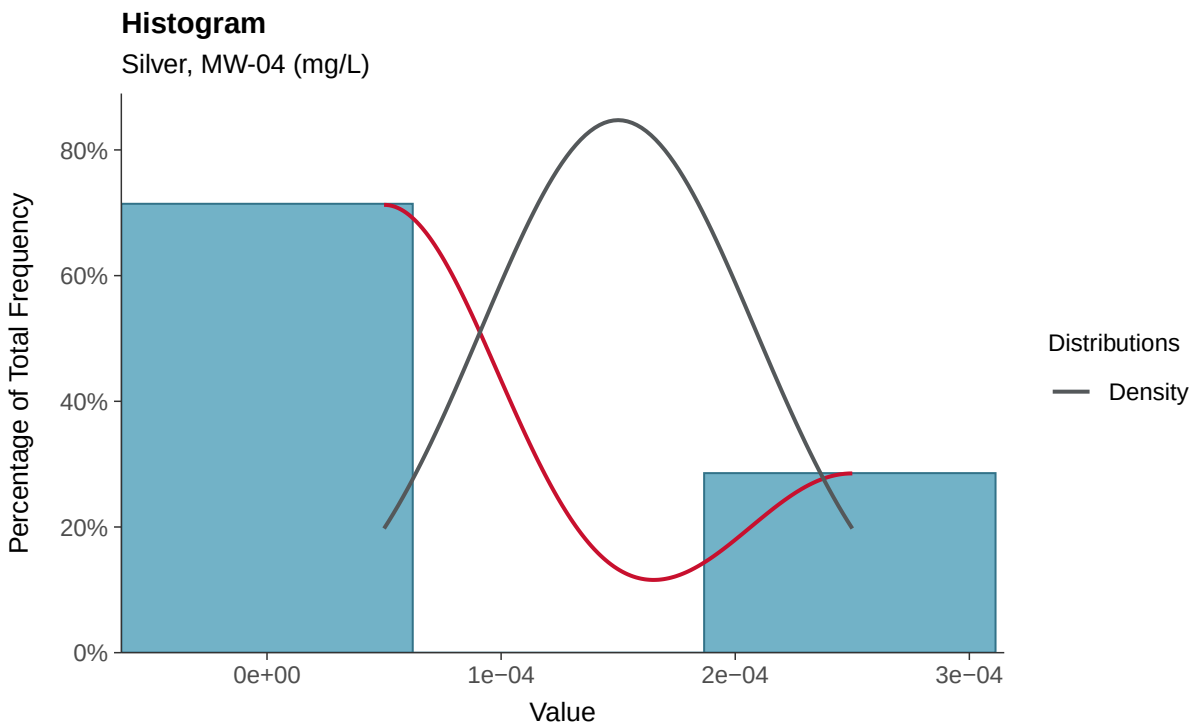
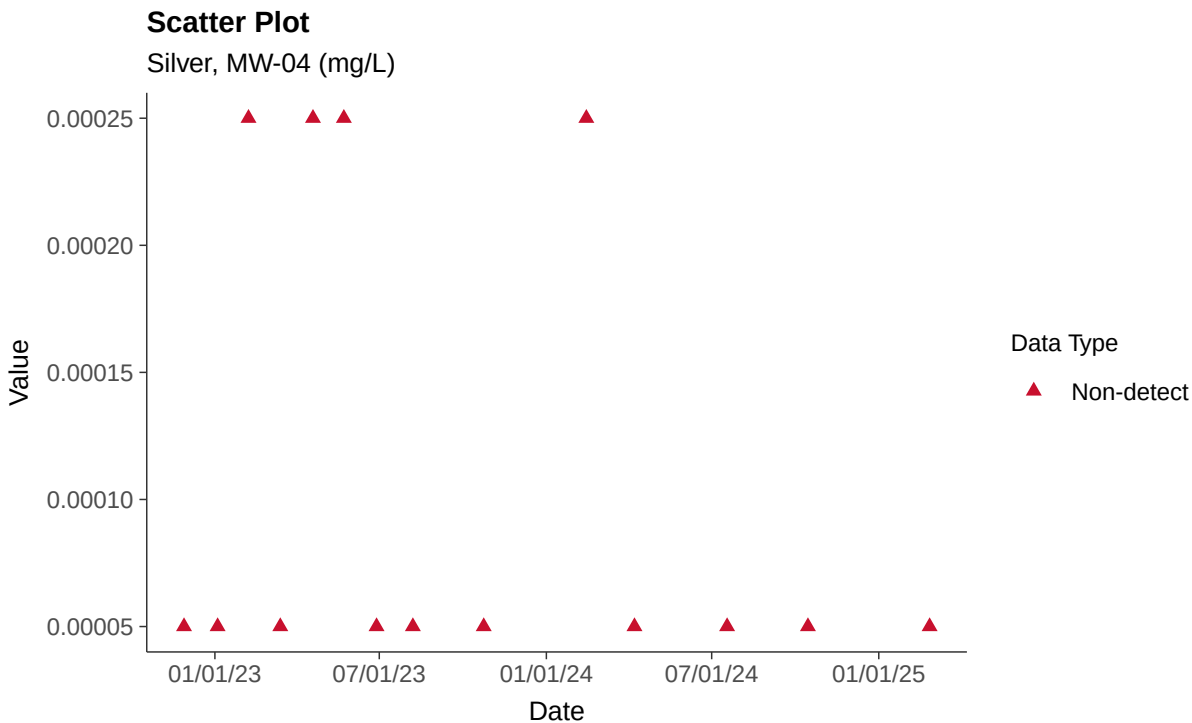


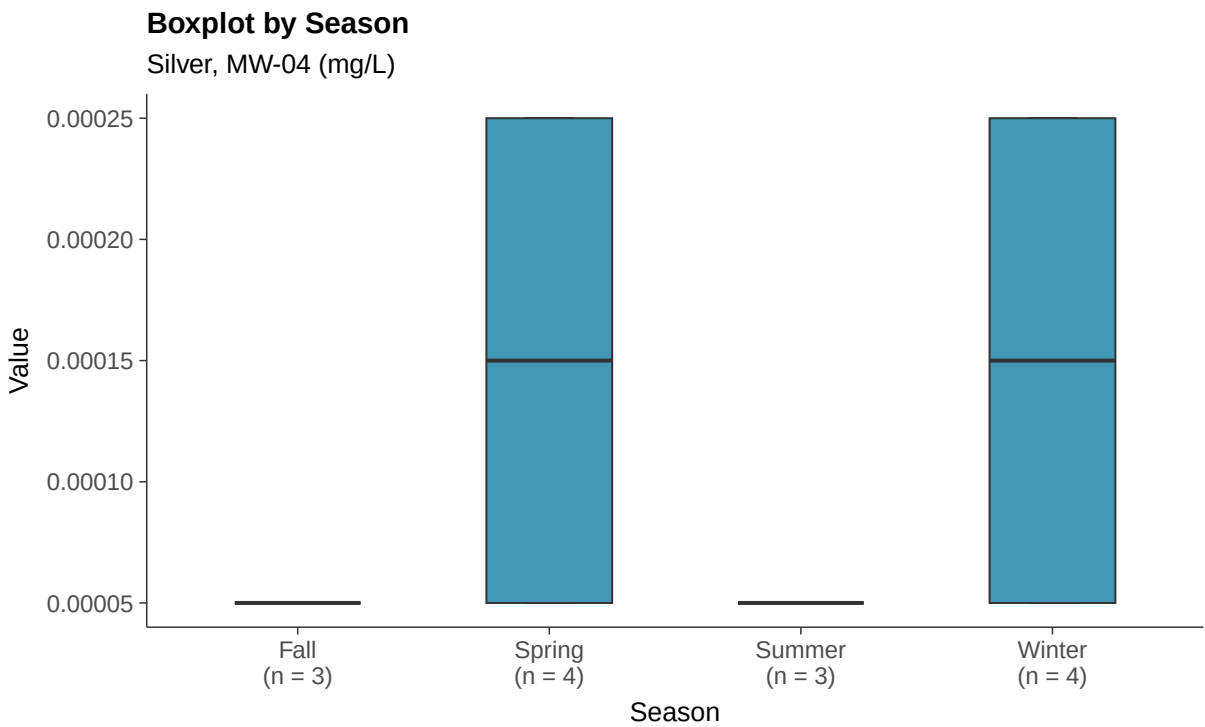
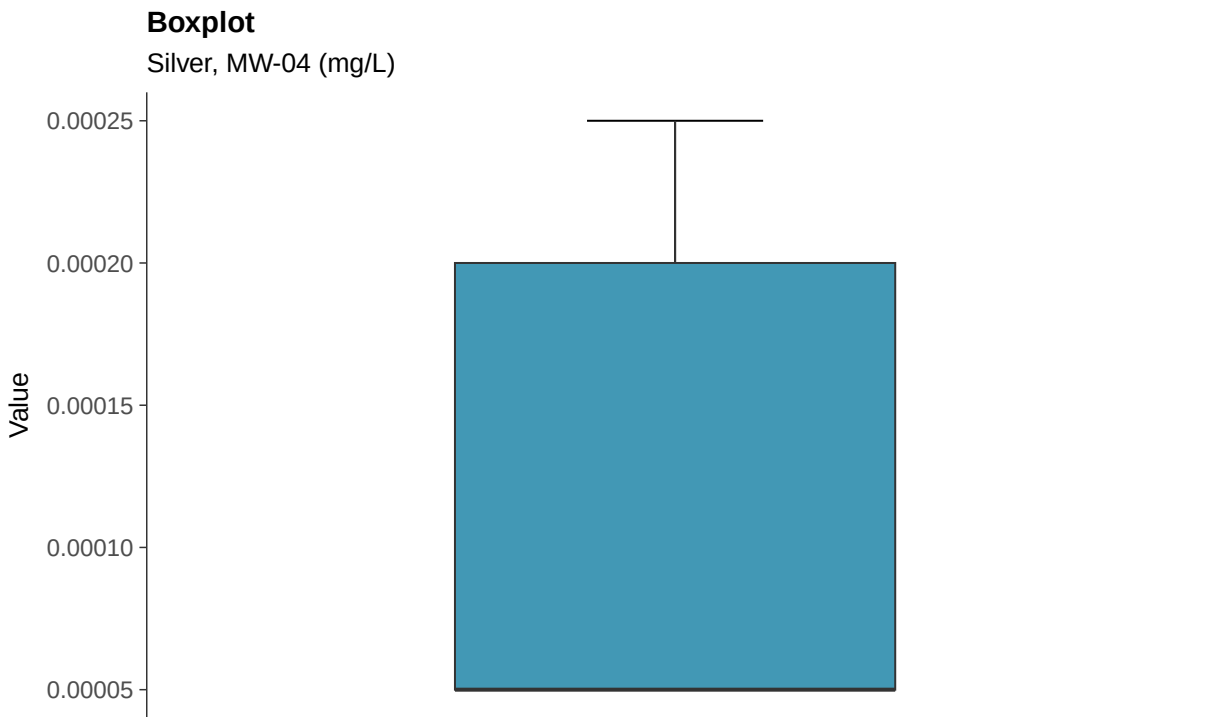


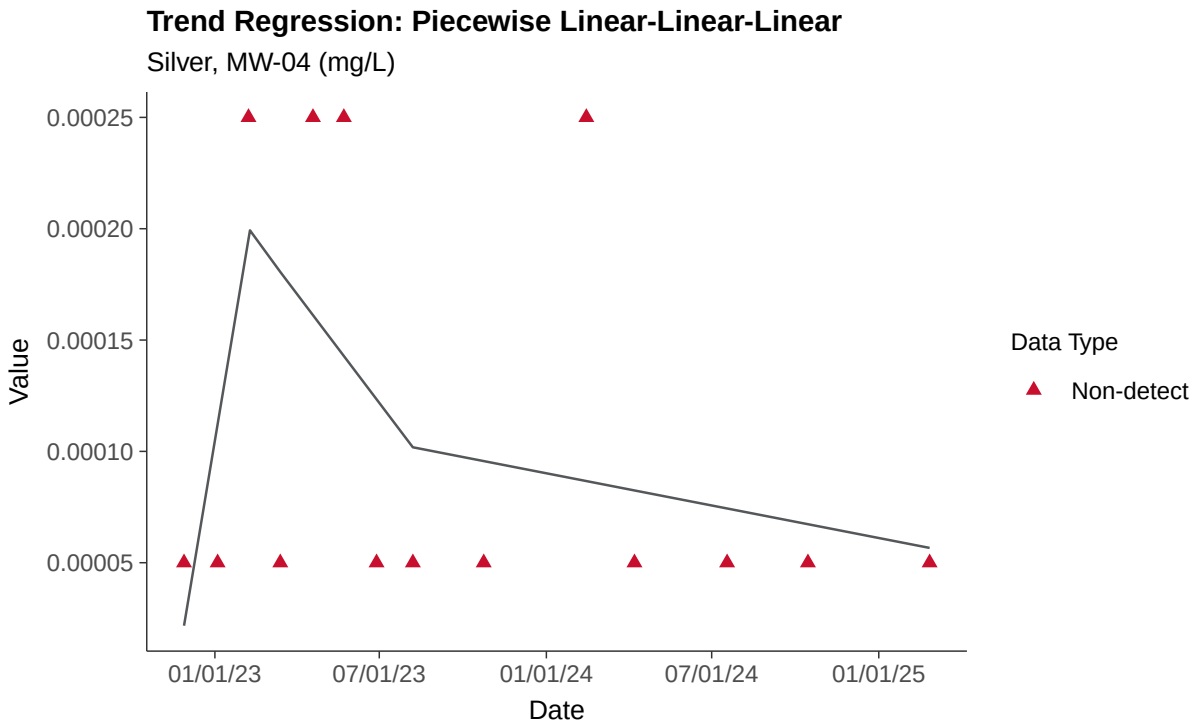
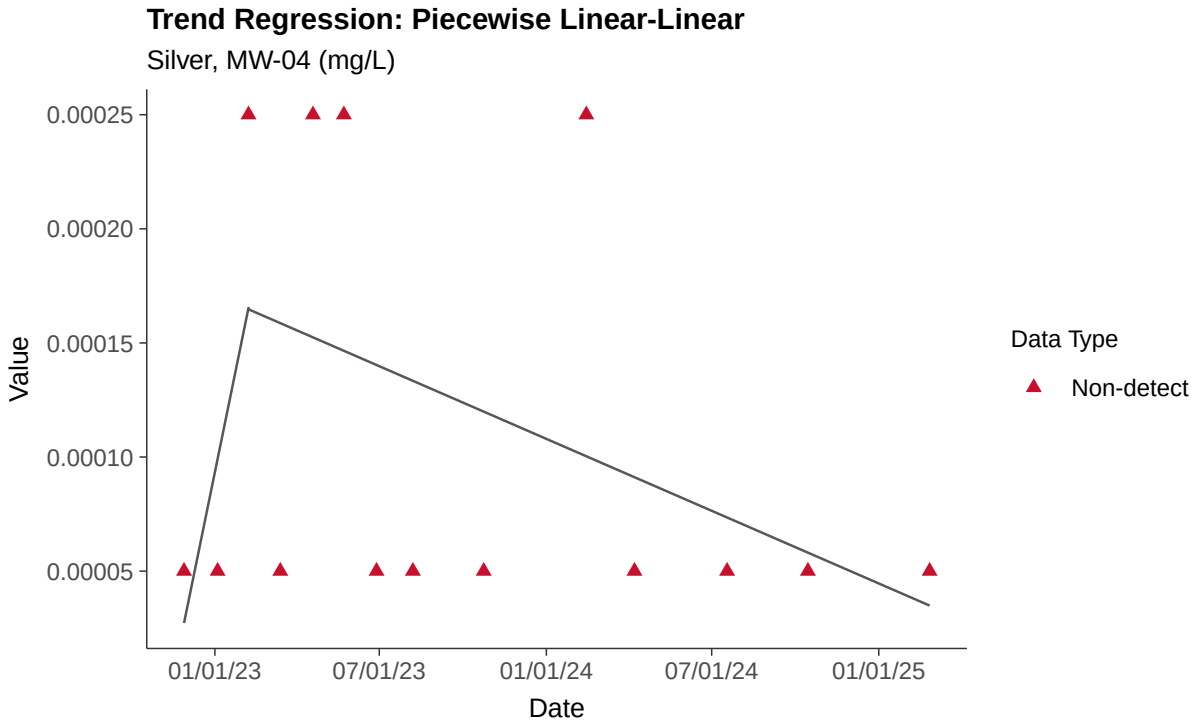


Part 115: Silver, MW-04

ID: 14_2_5_123



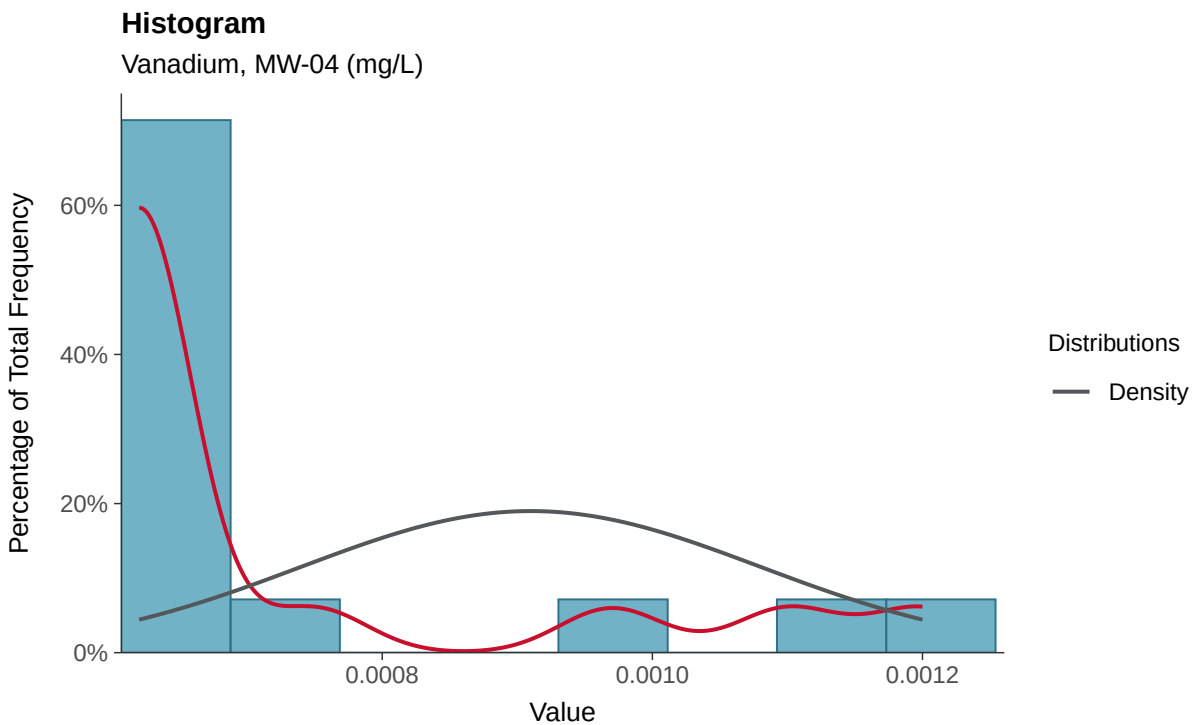
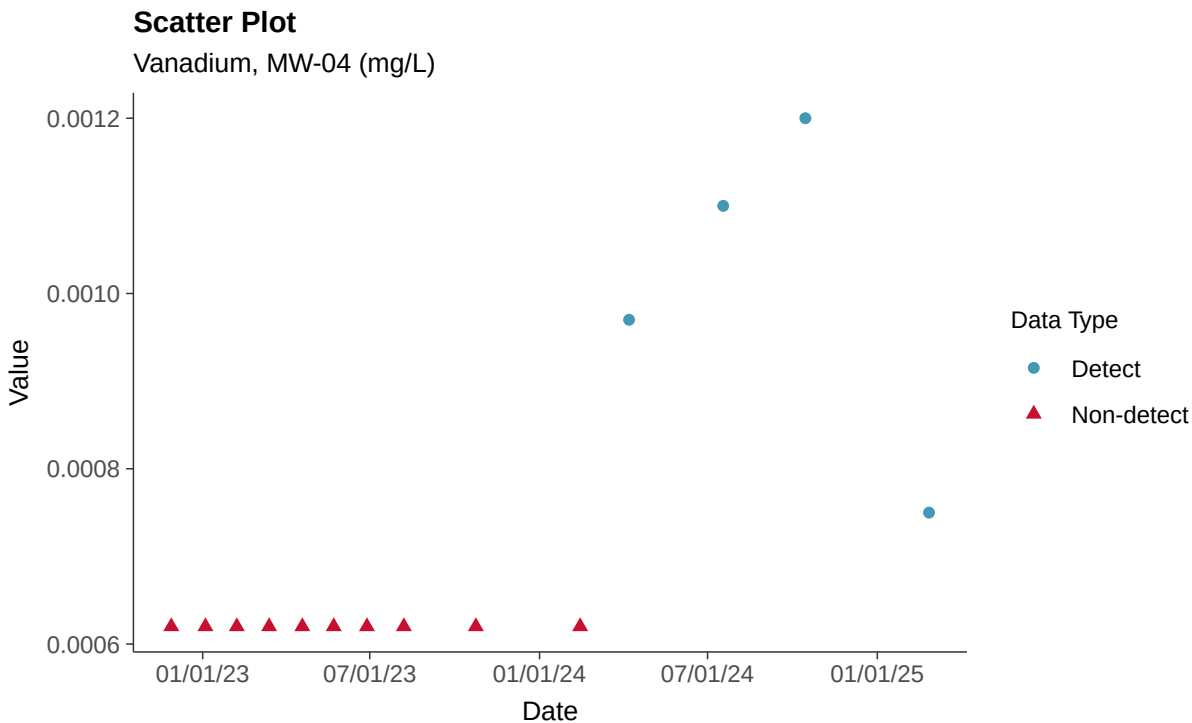


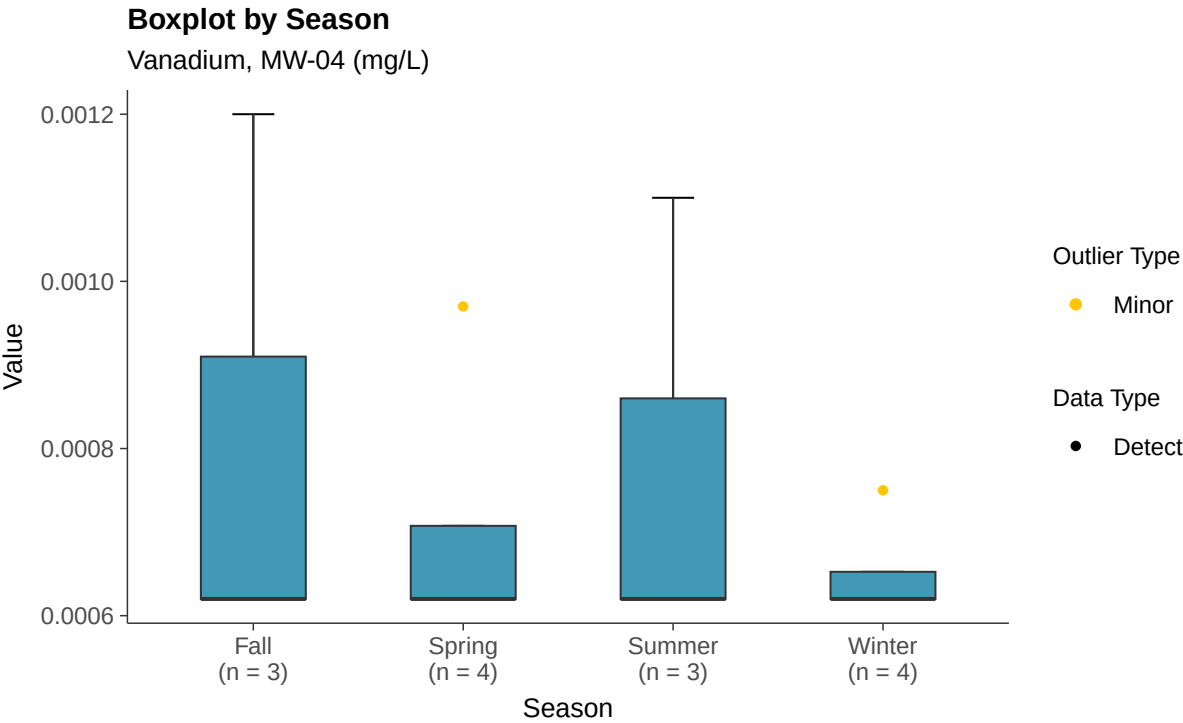
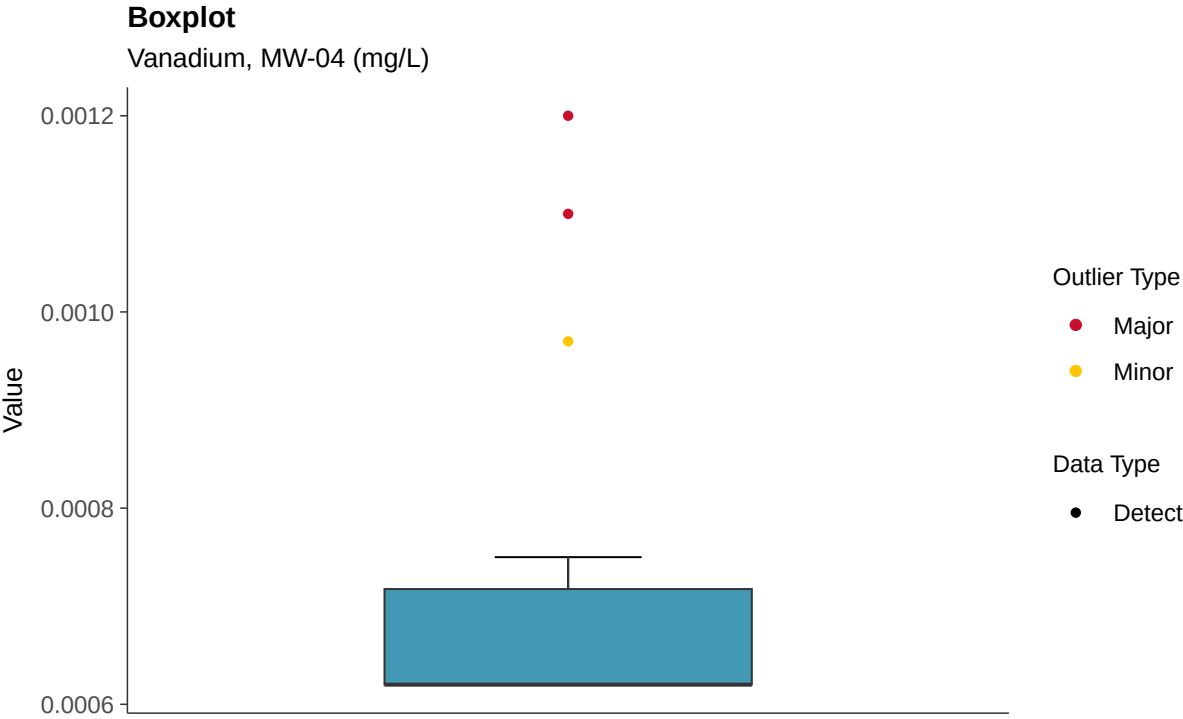


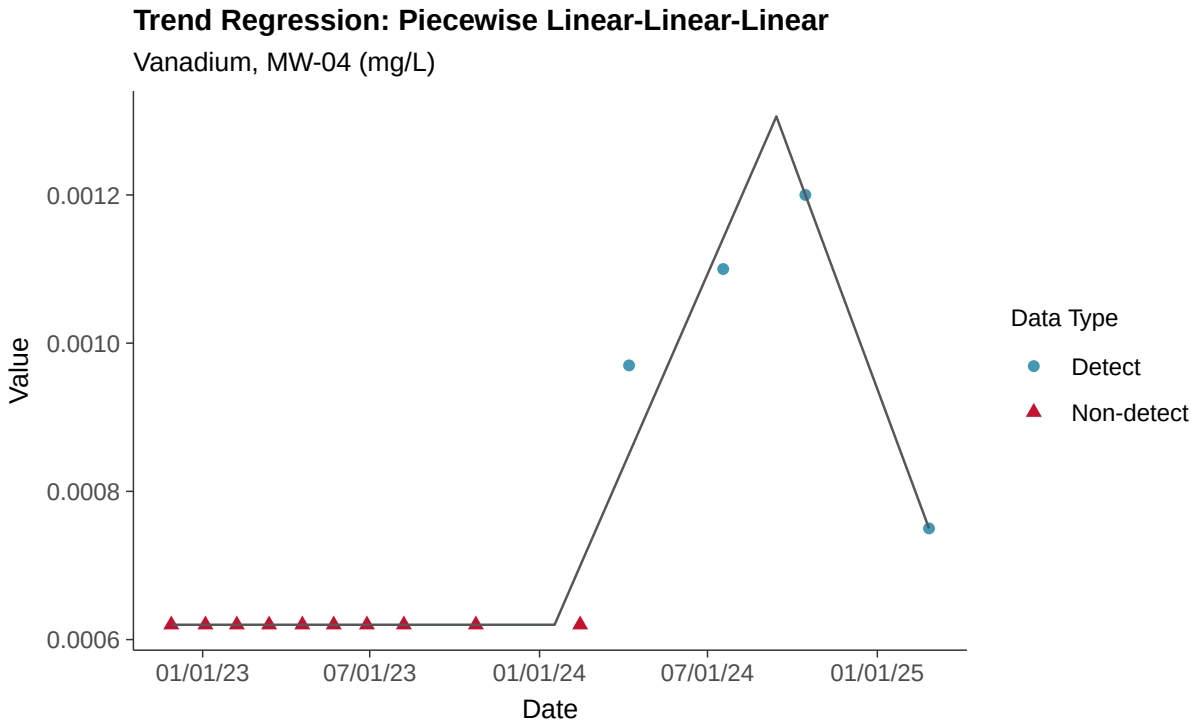
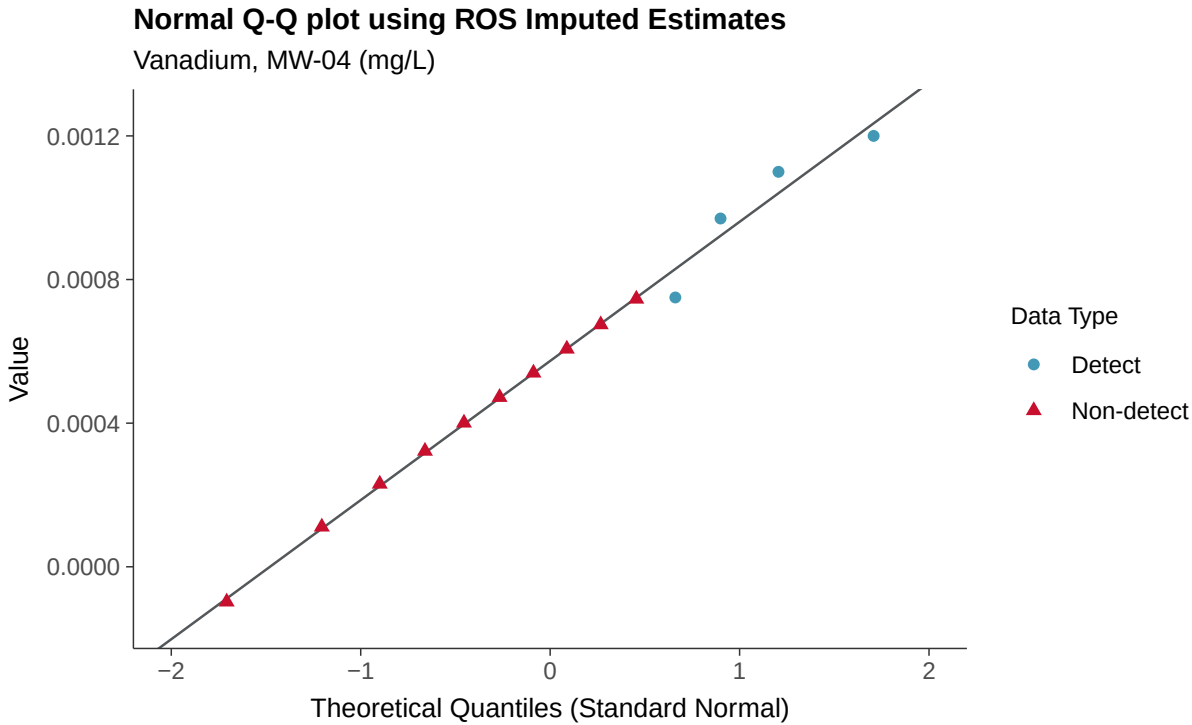


Part 115: Vanadium, MW-04

ID: 14_2_5_128



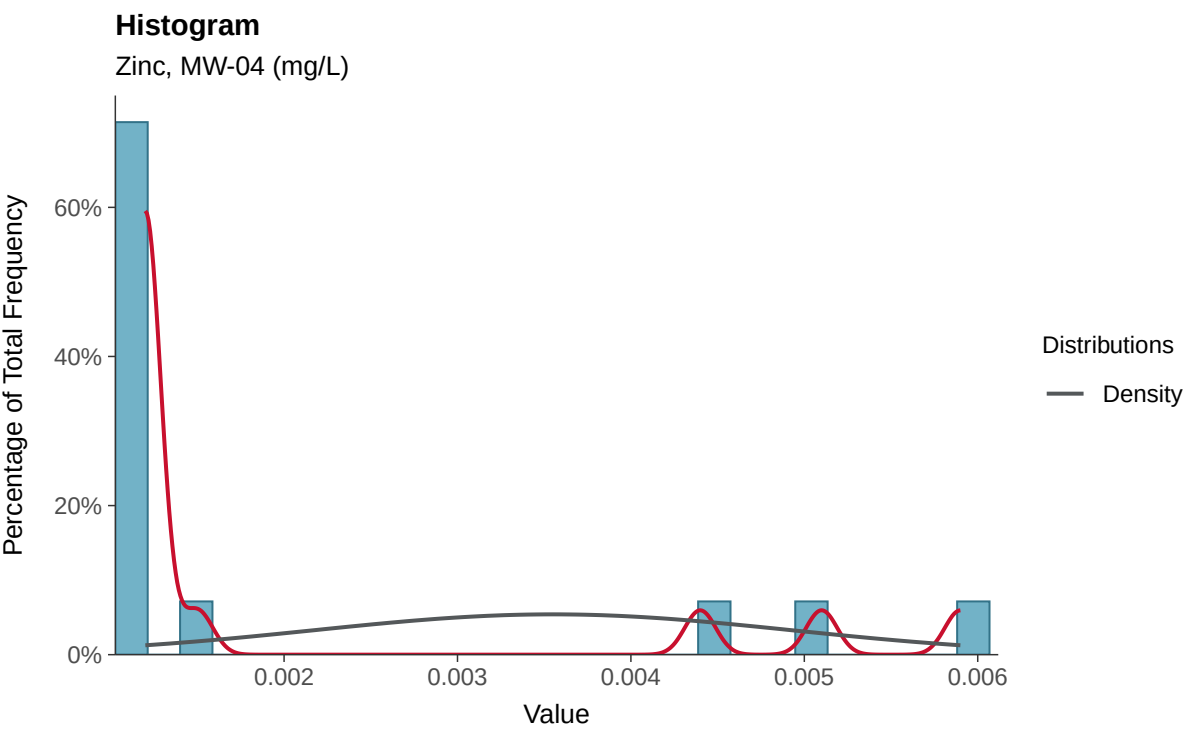
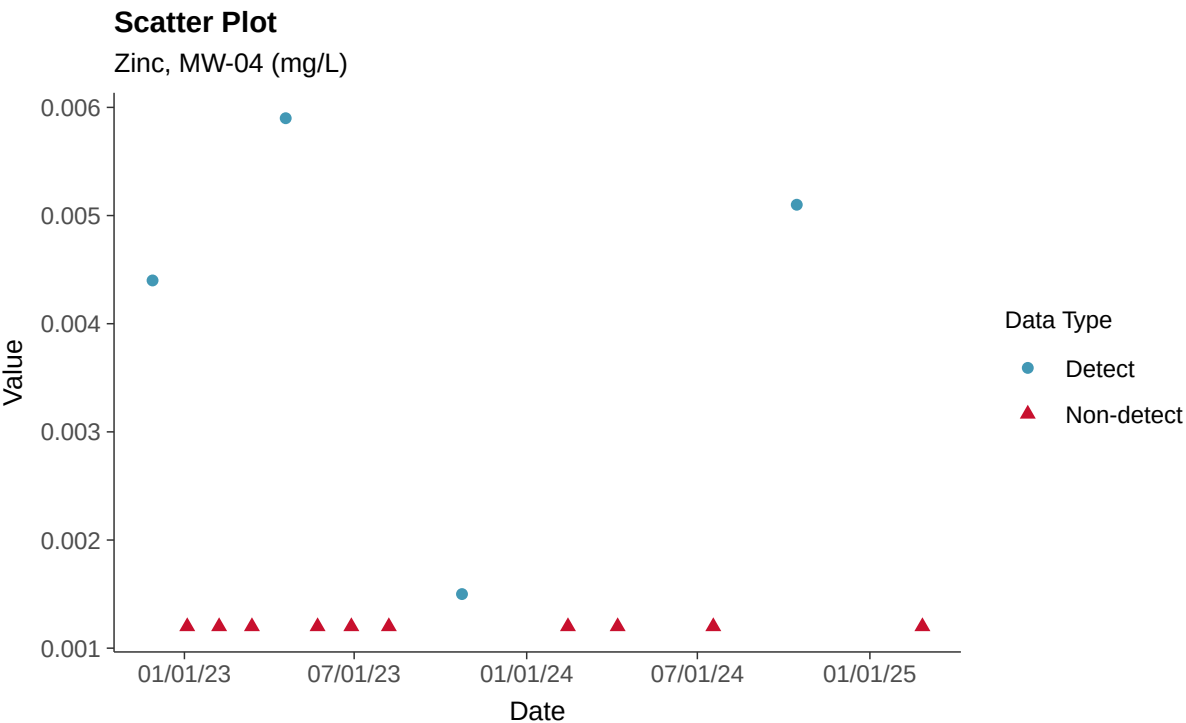


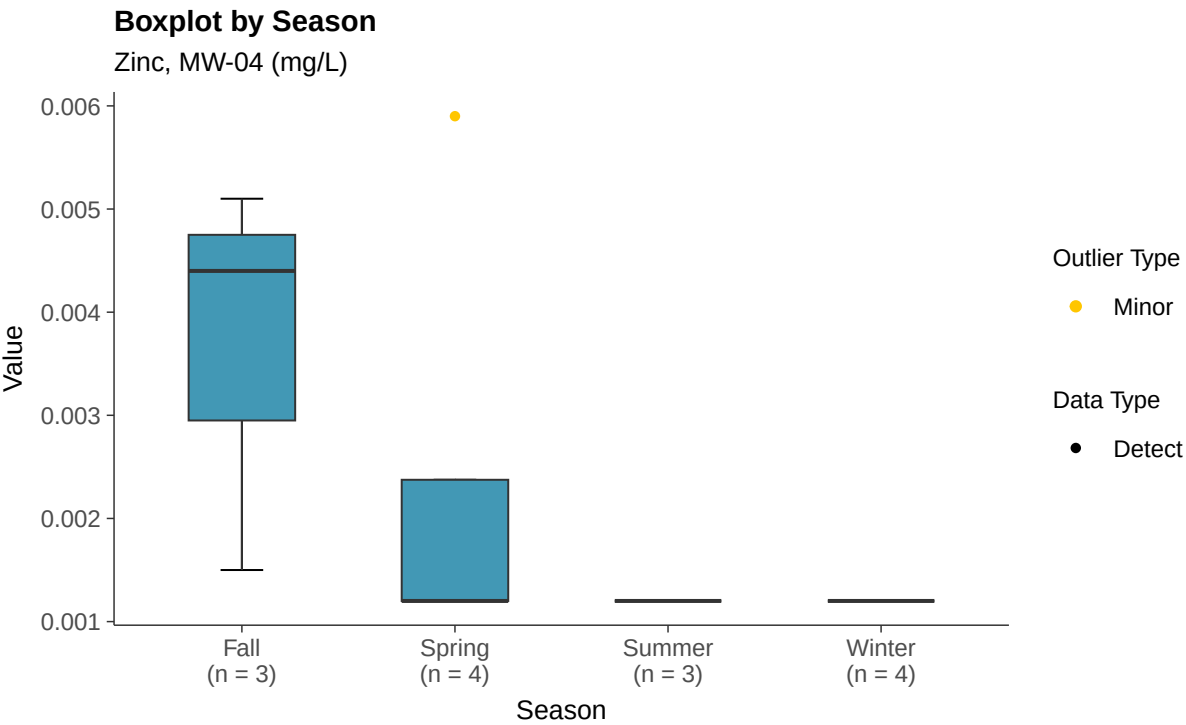
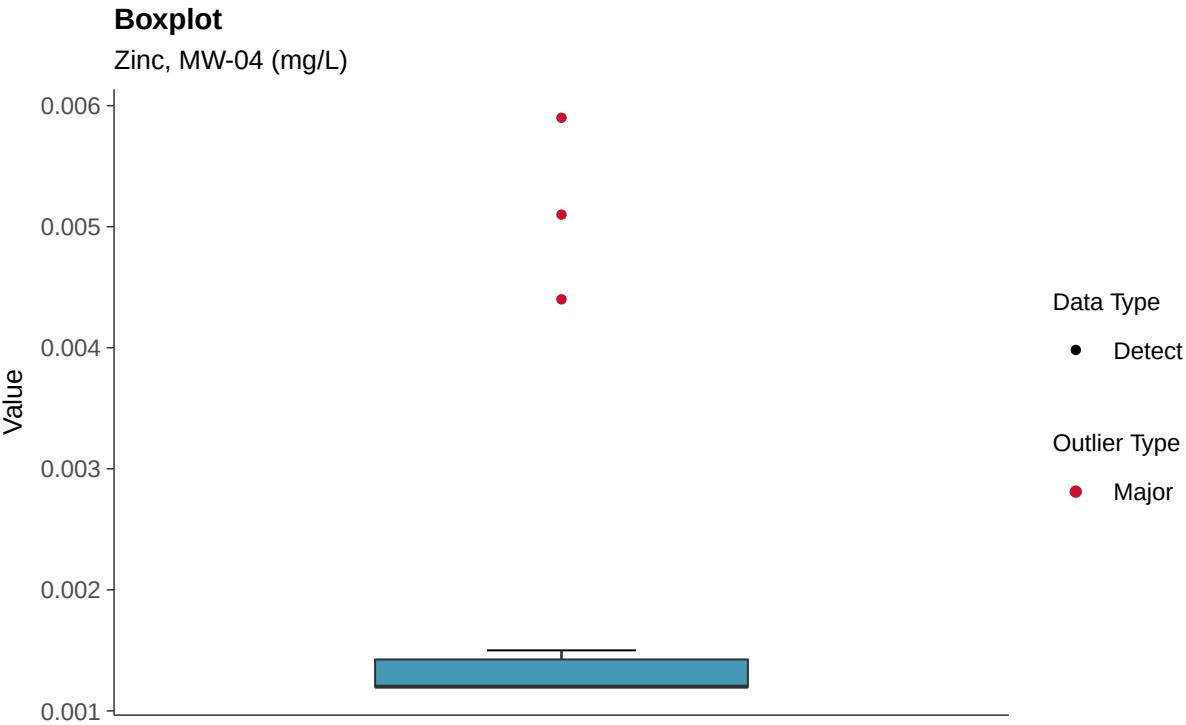


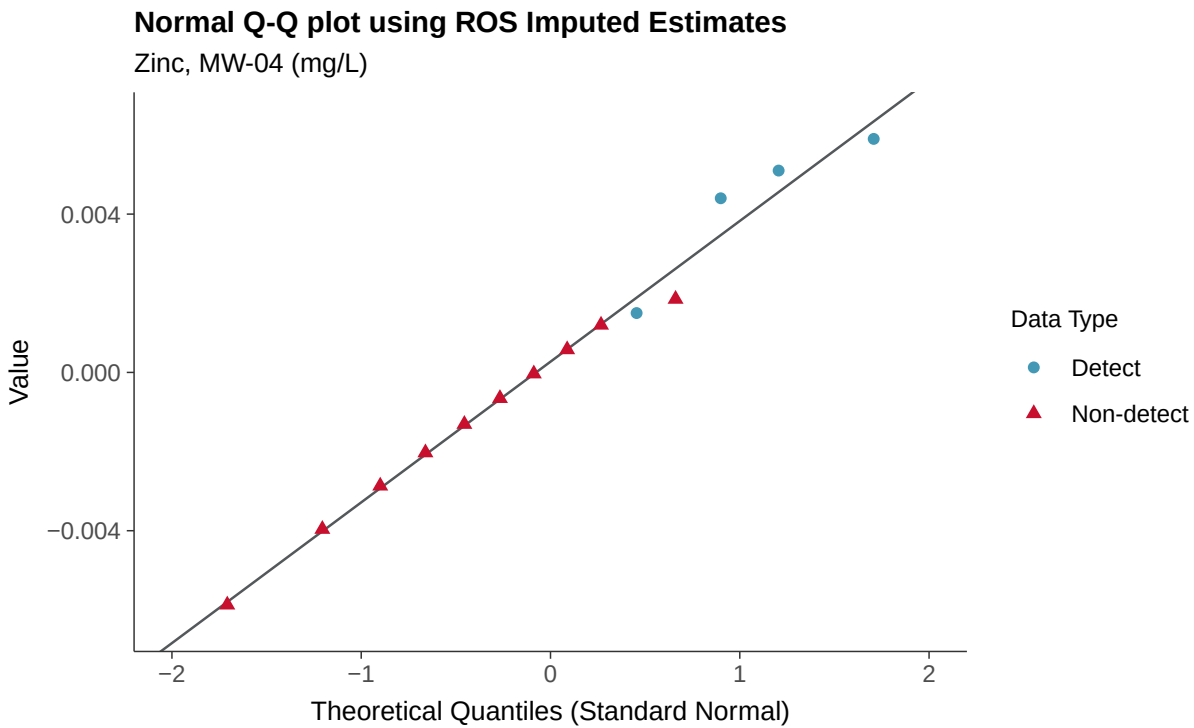


Part 115: Zinc, MW-04

ID: 14_2_5_129



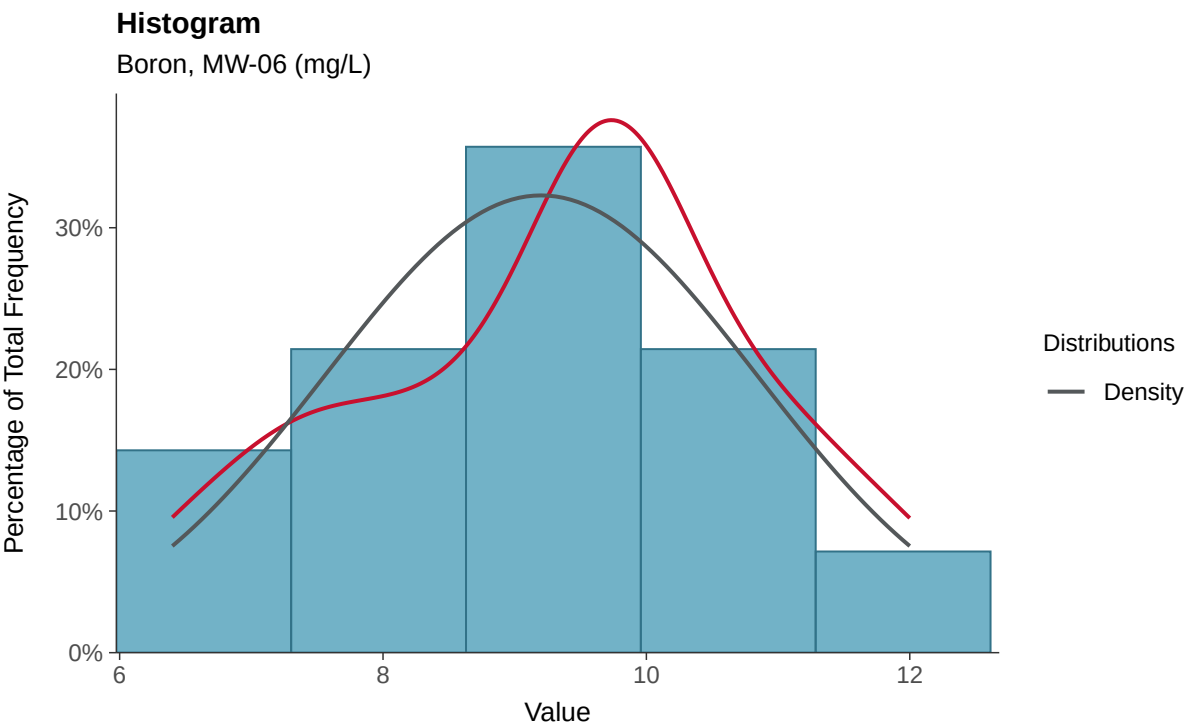
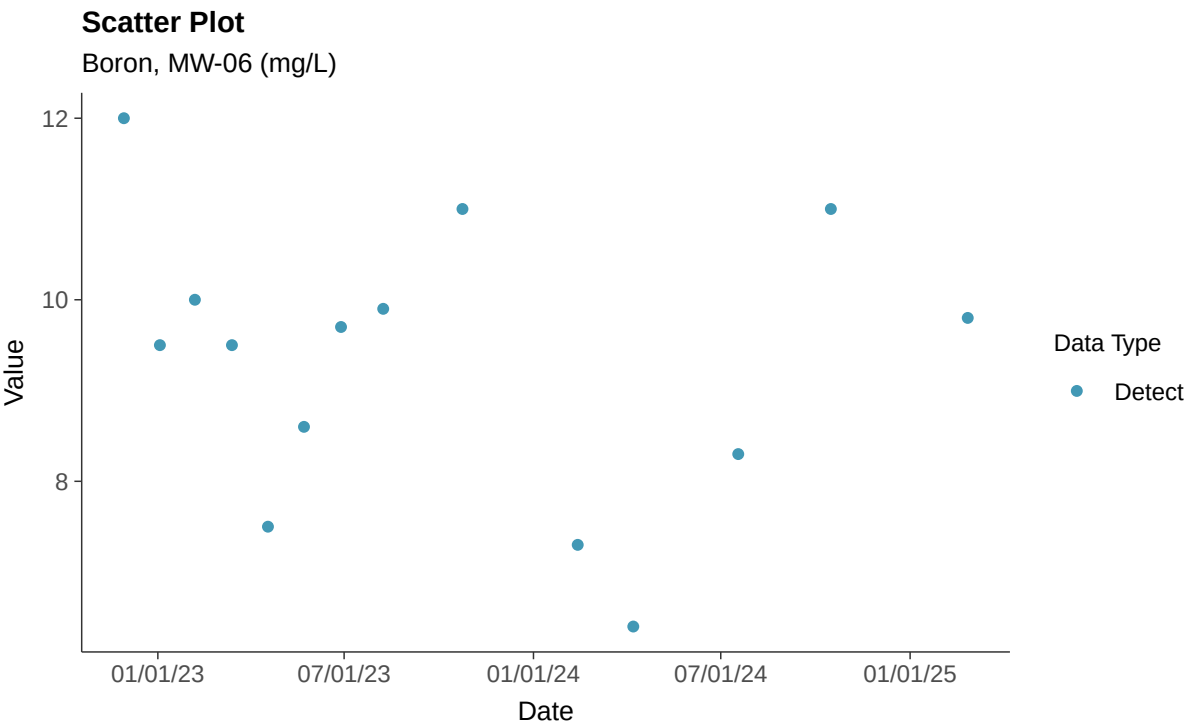


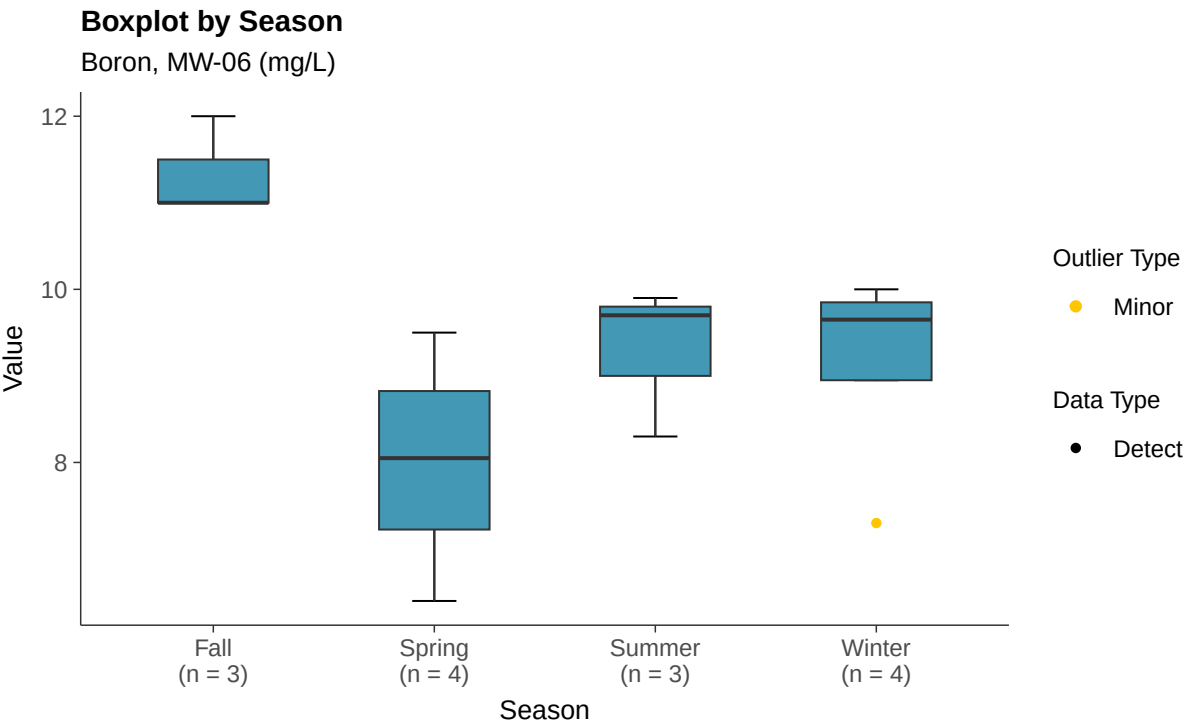
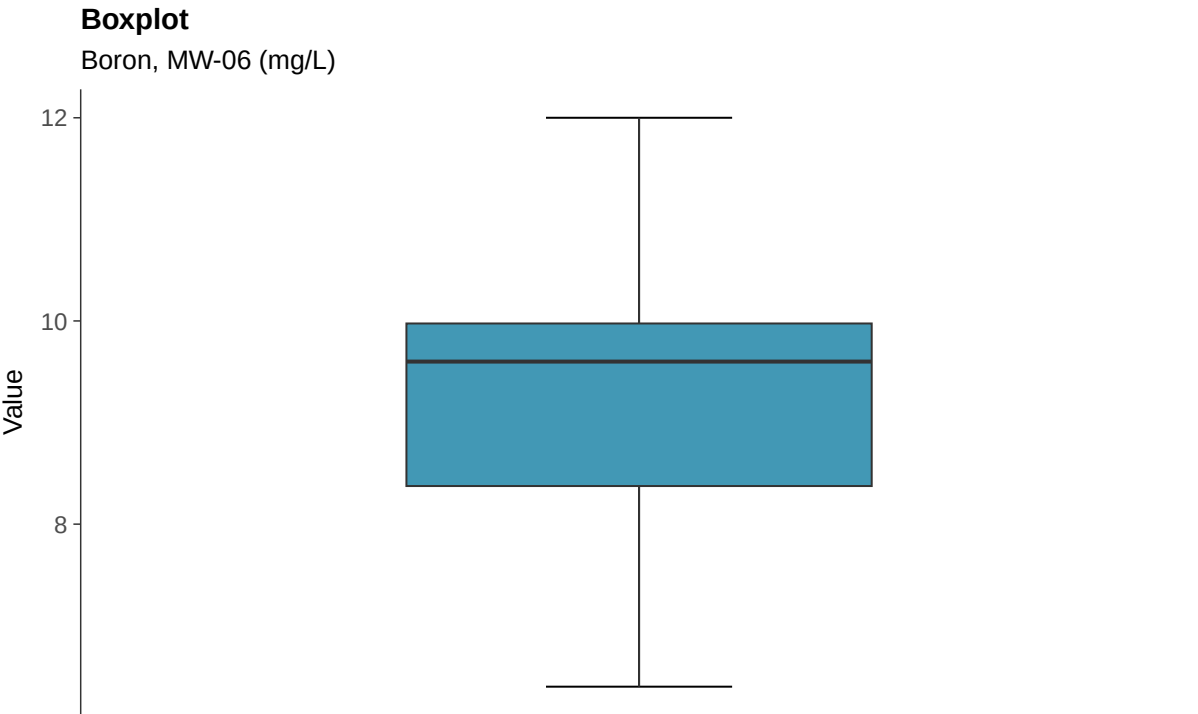


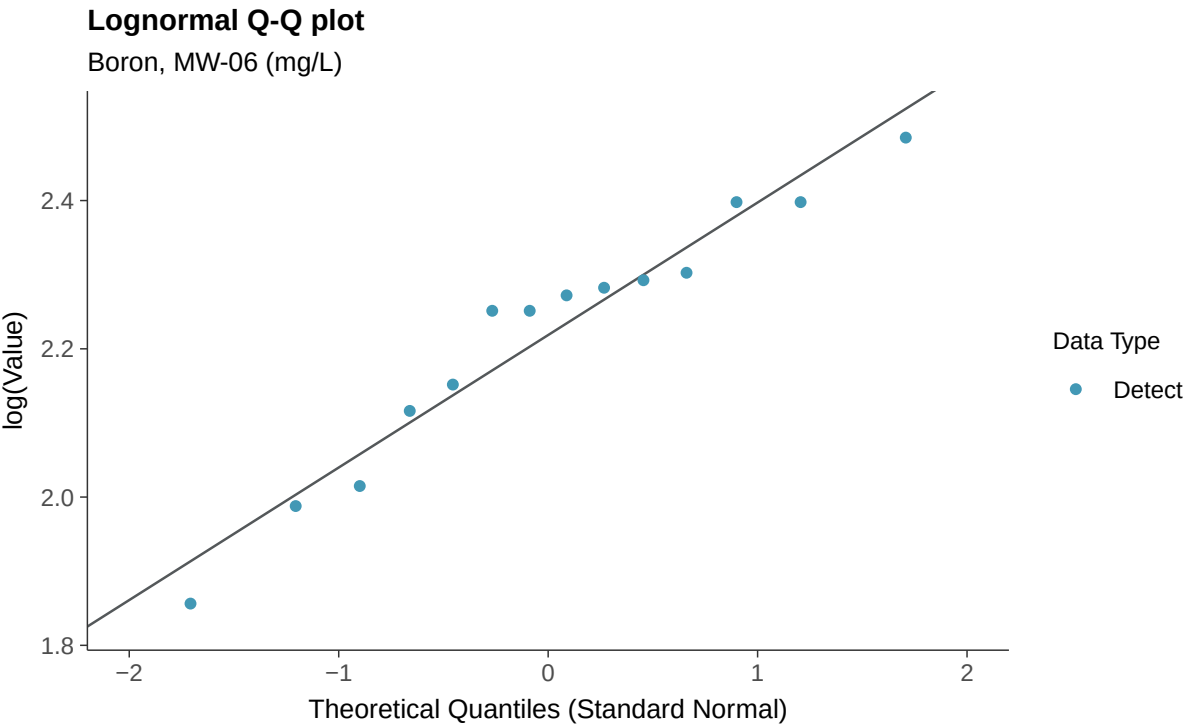
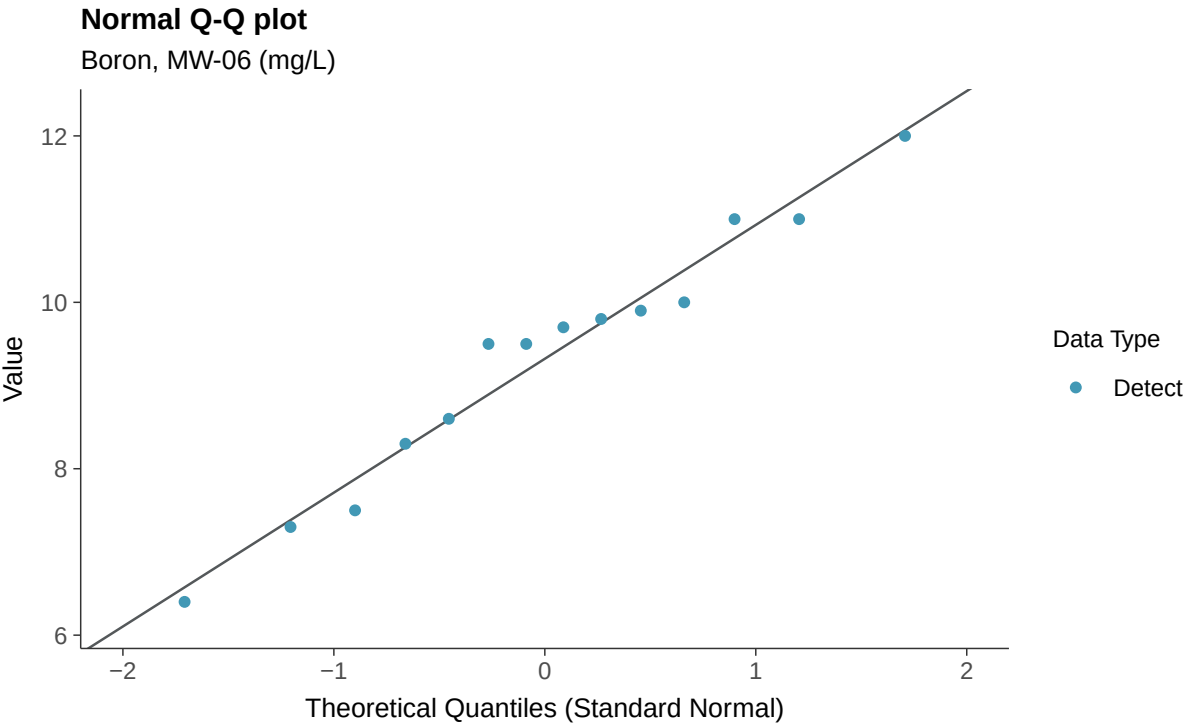


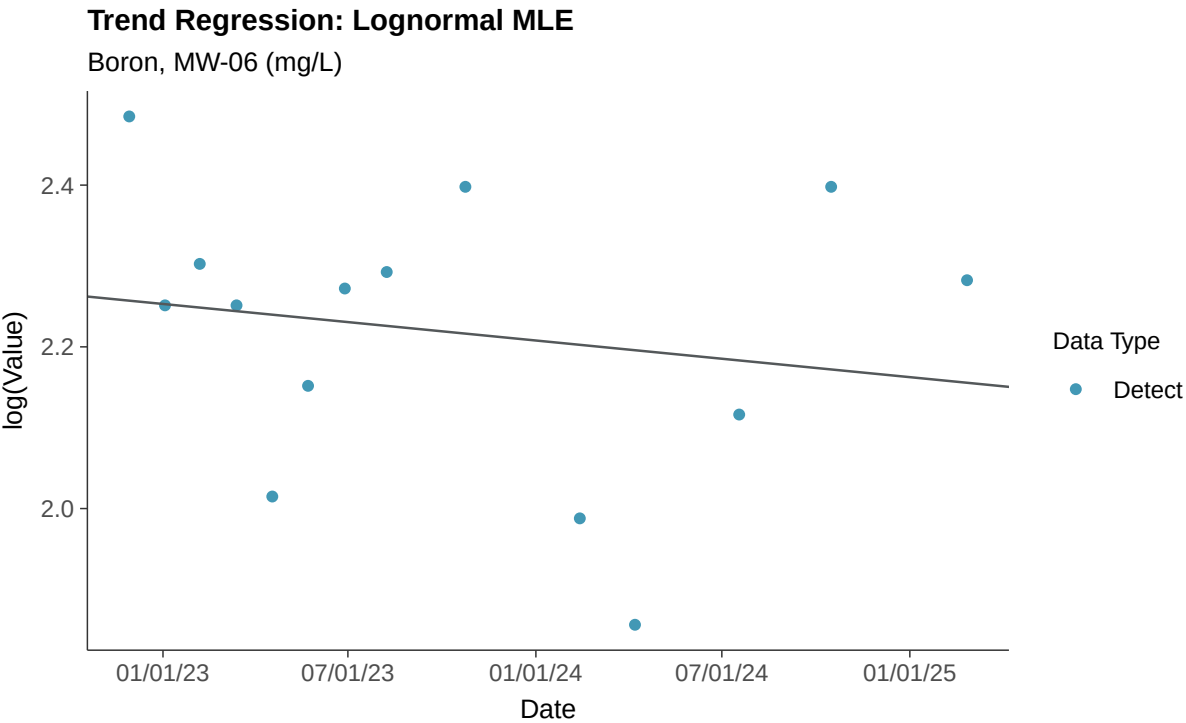
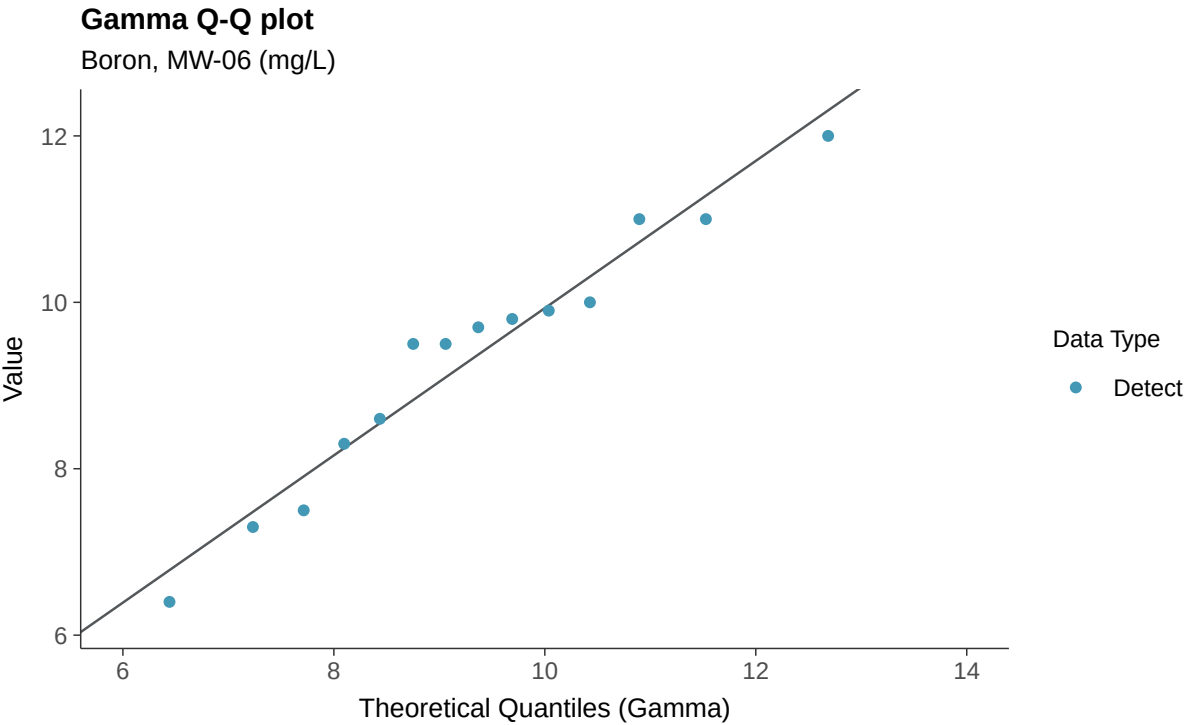
Appendix III: Boron, MW-06

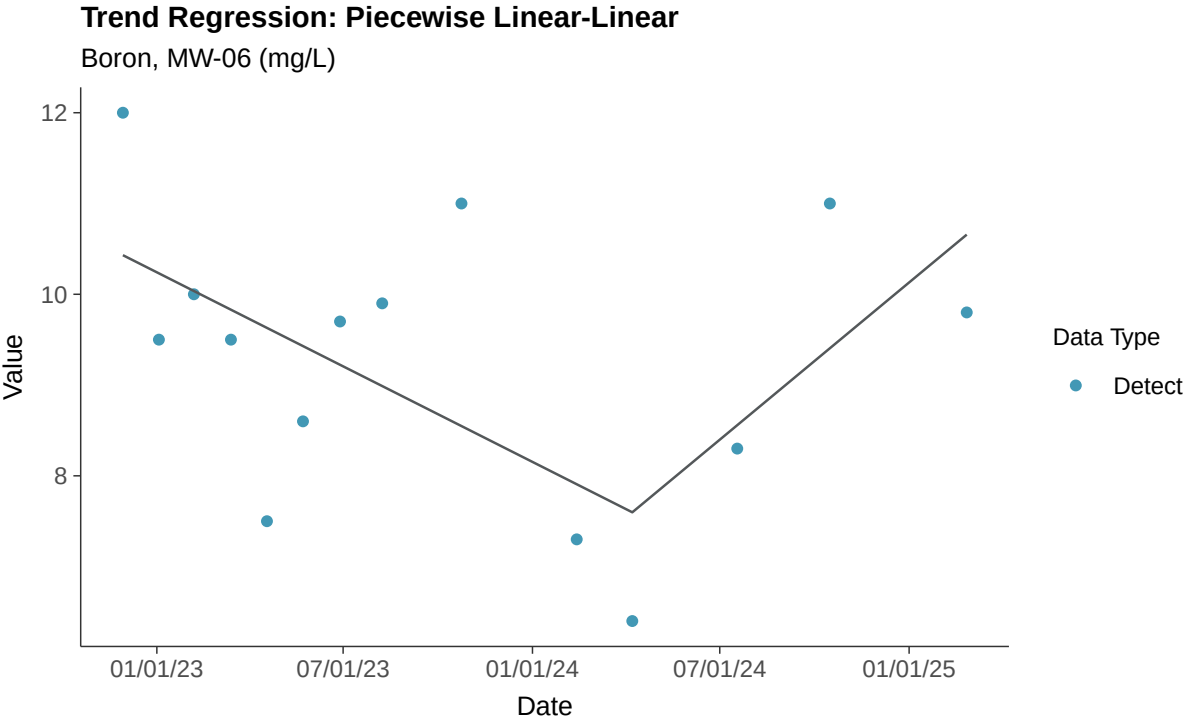
ID: 16_1_3_105







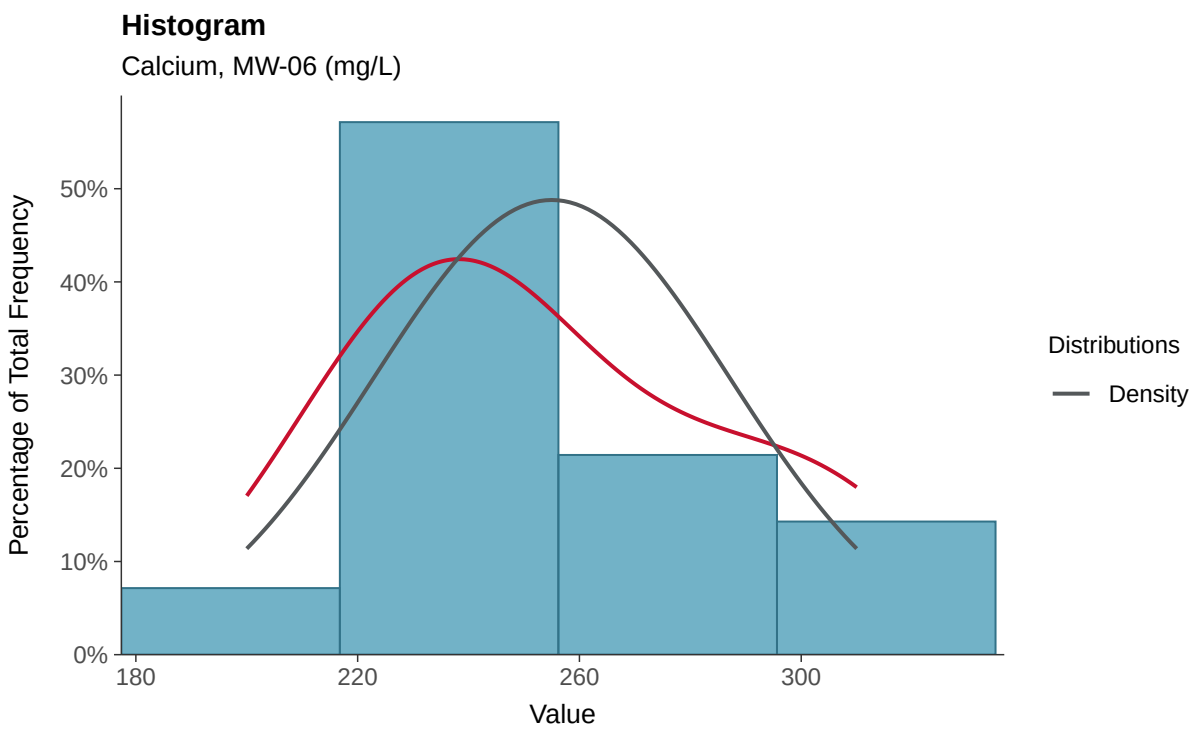
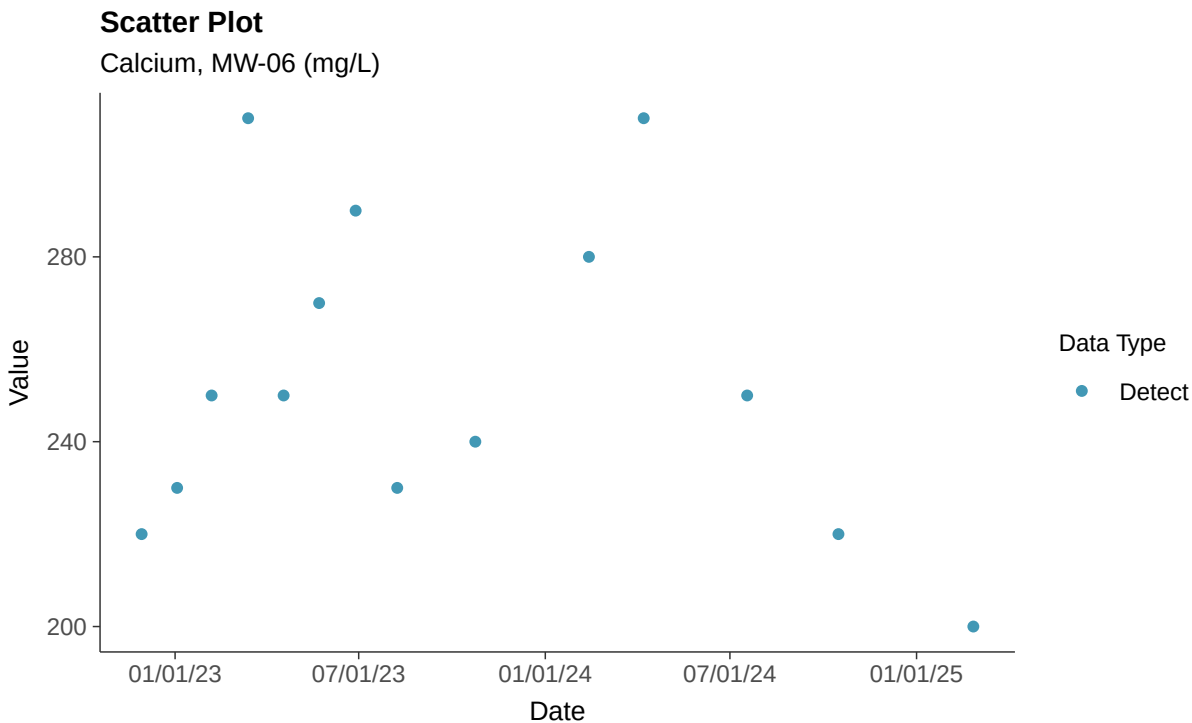


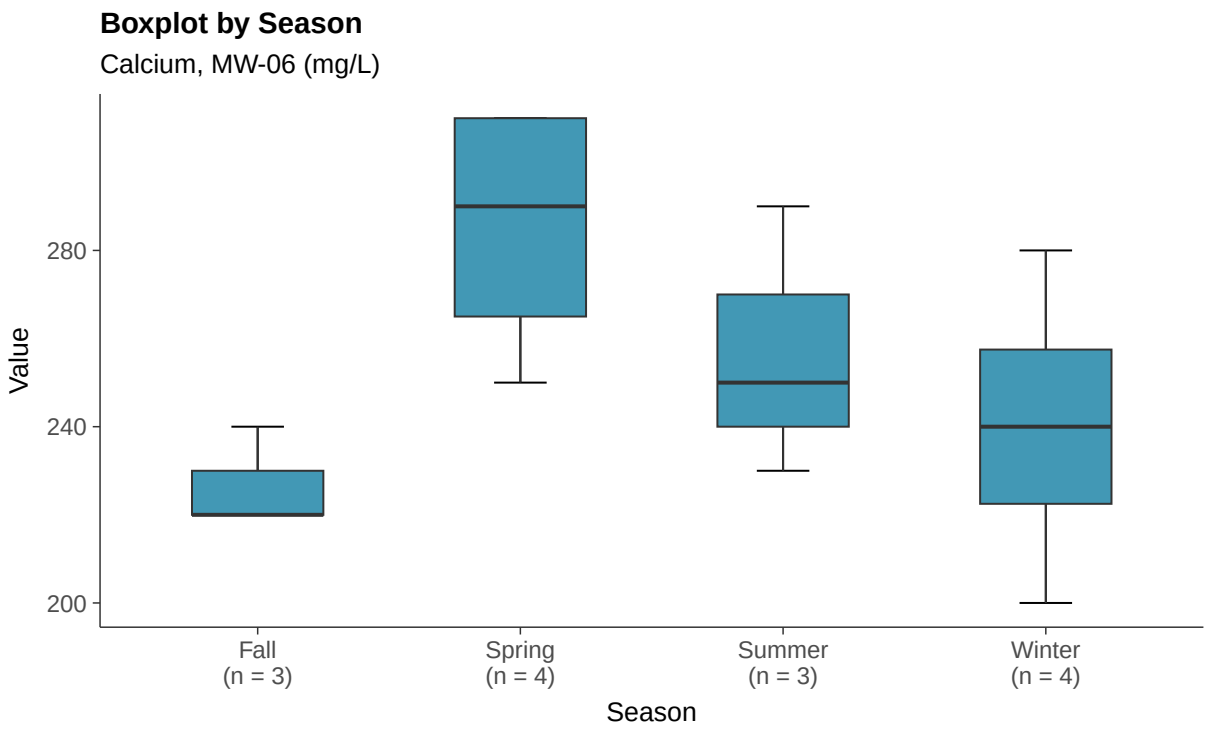
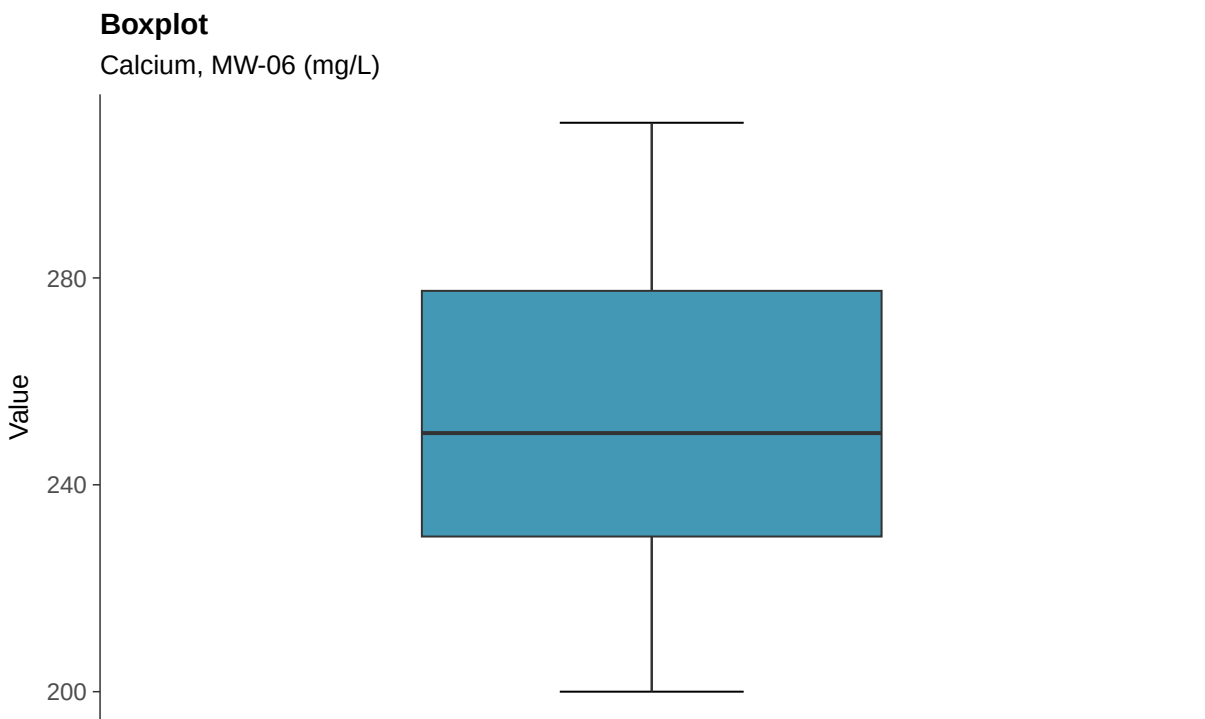


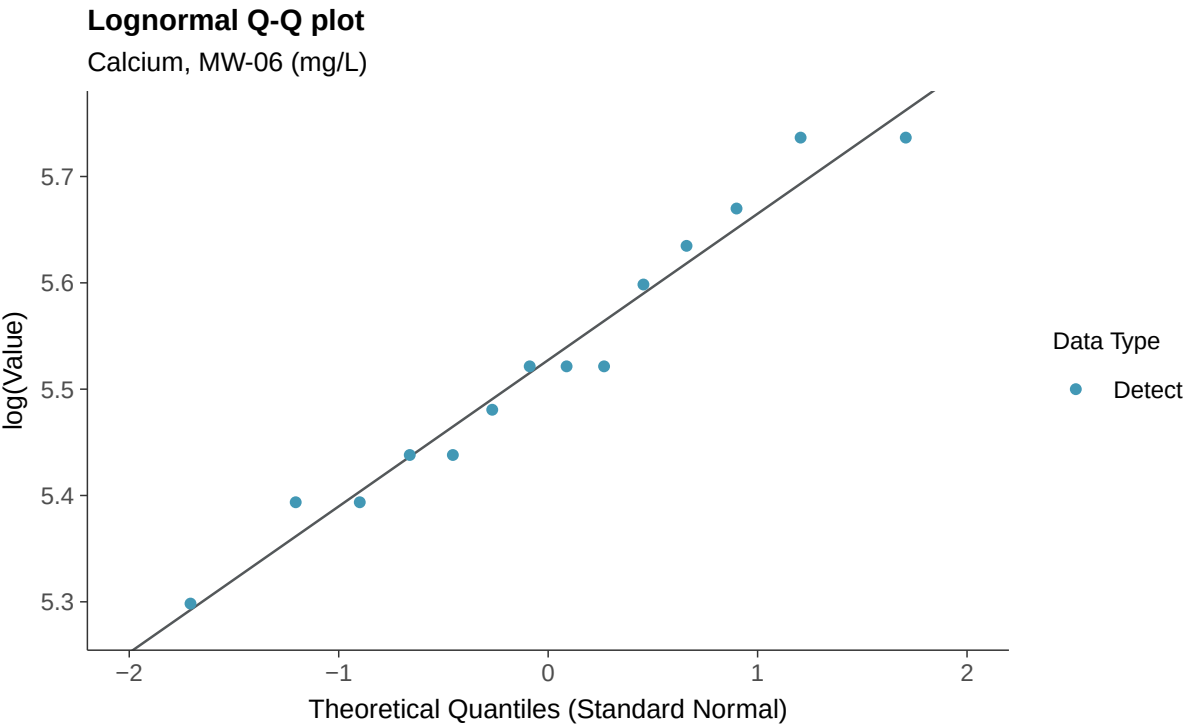
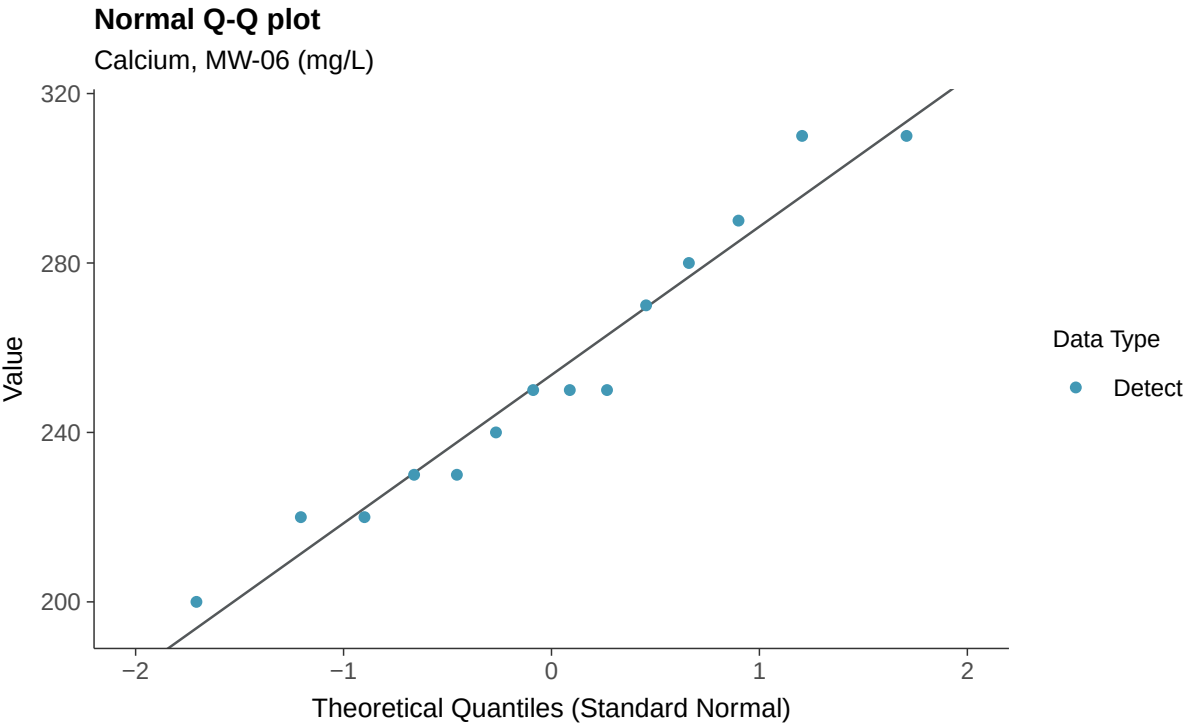


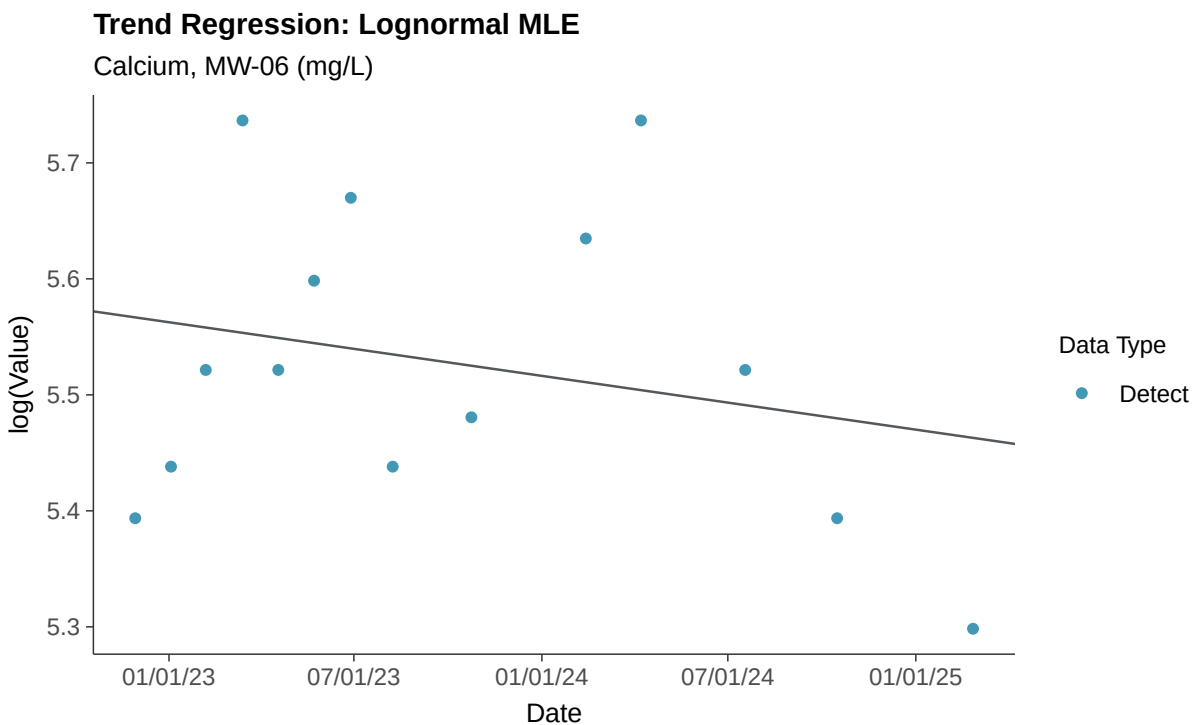
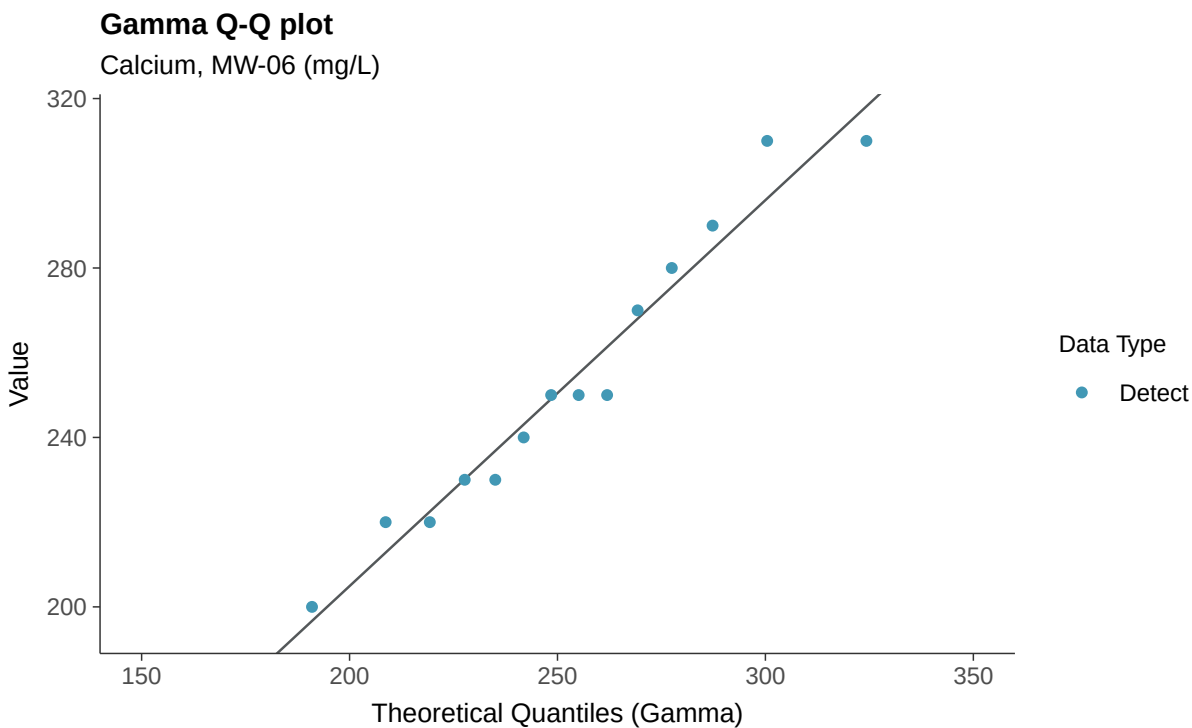
Appendix III: Calcium, MW-06

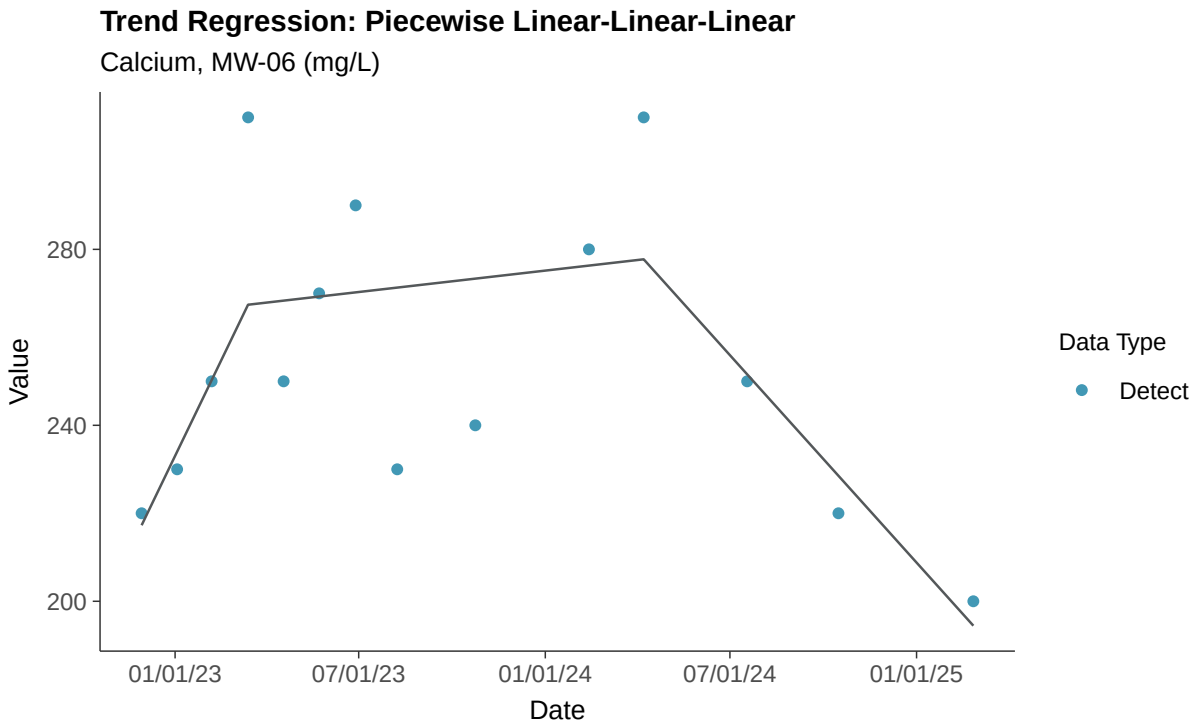
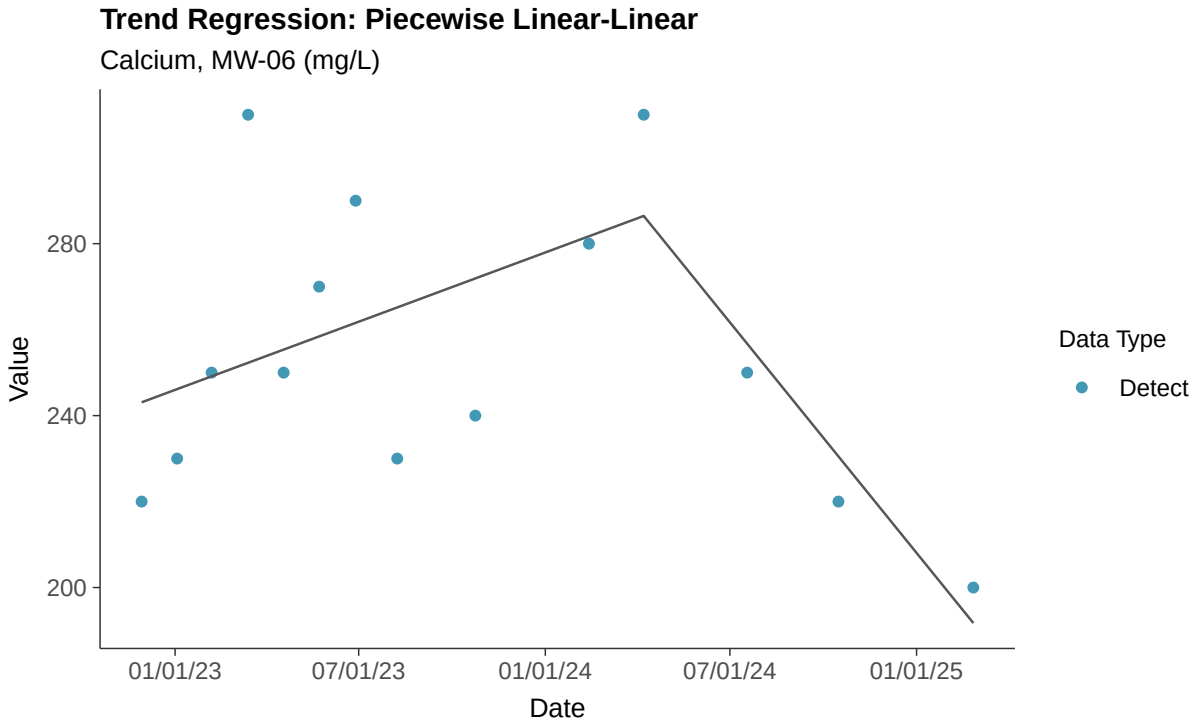
ID: 16_1_3_107







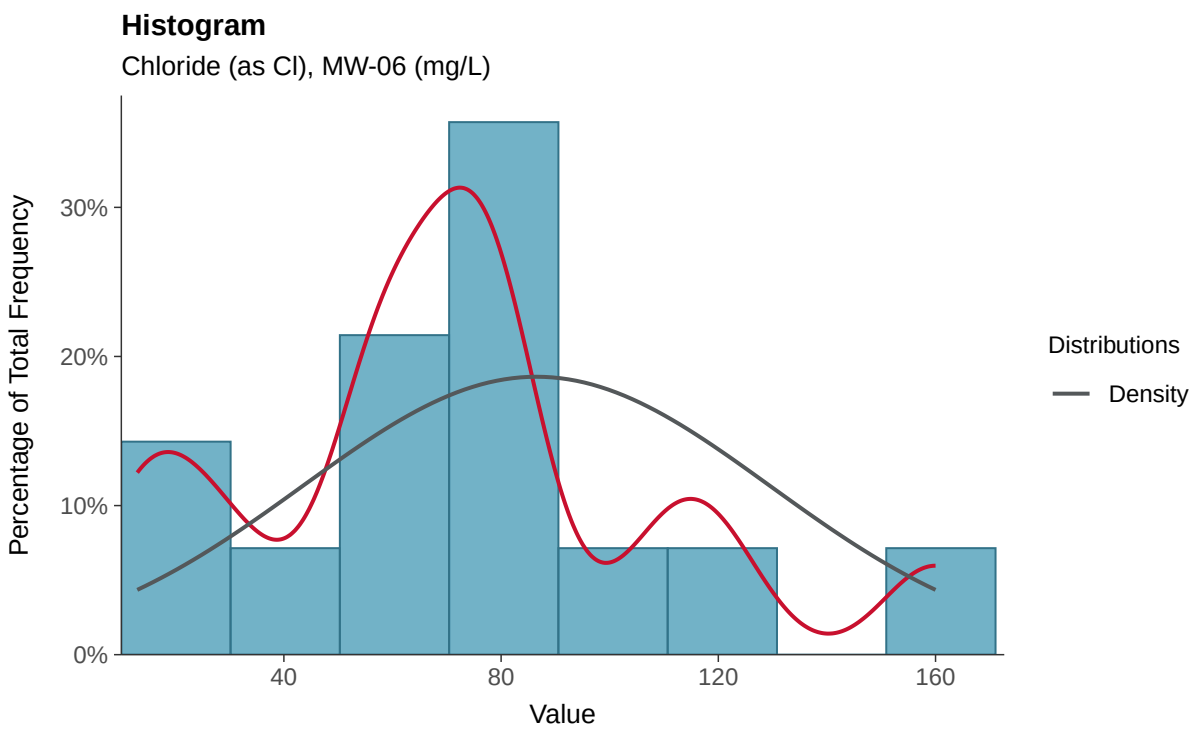
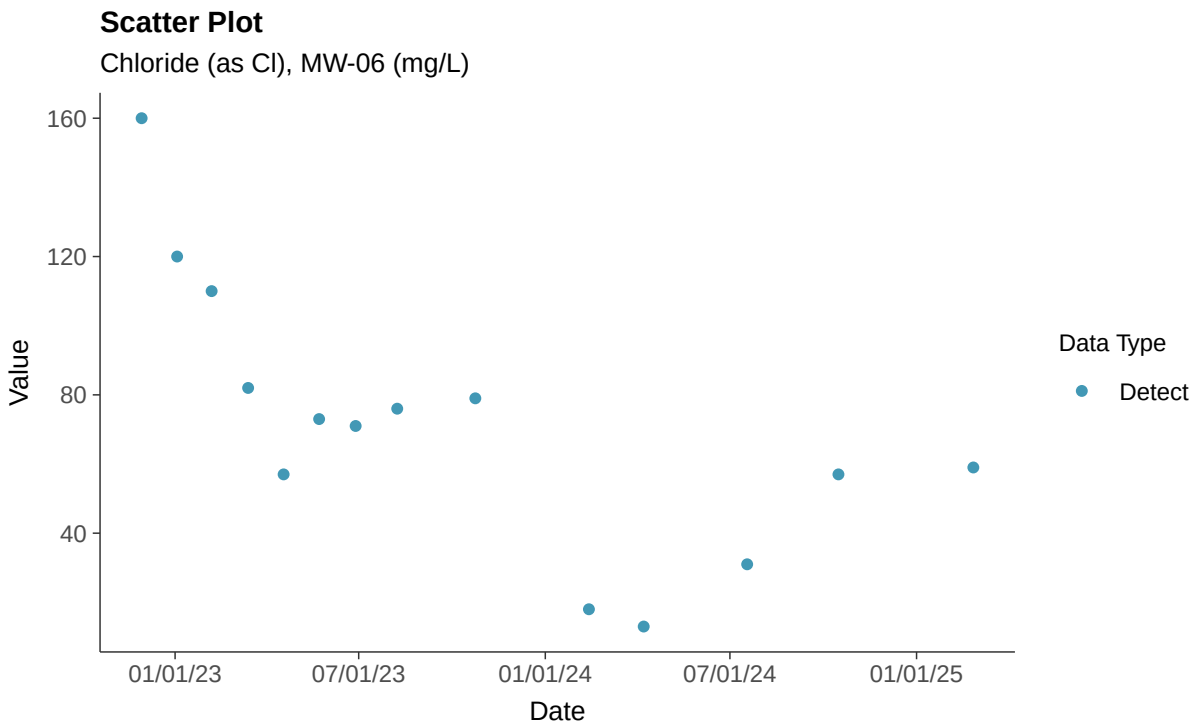


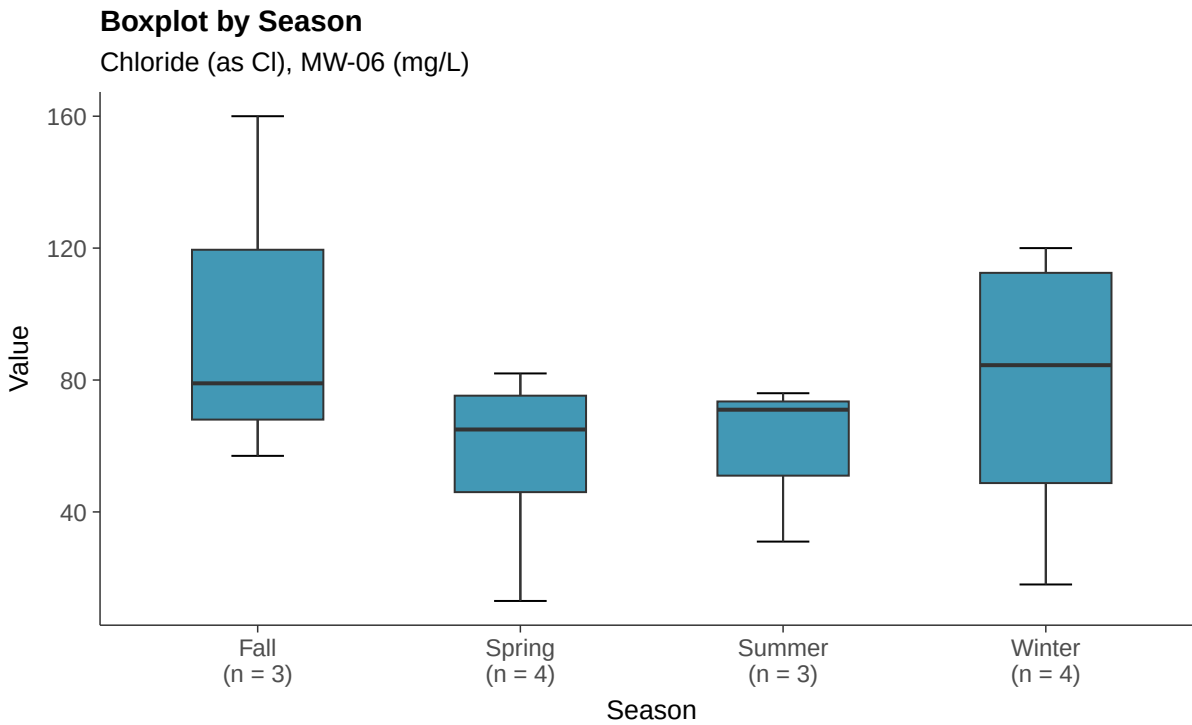
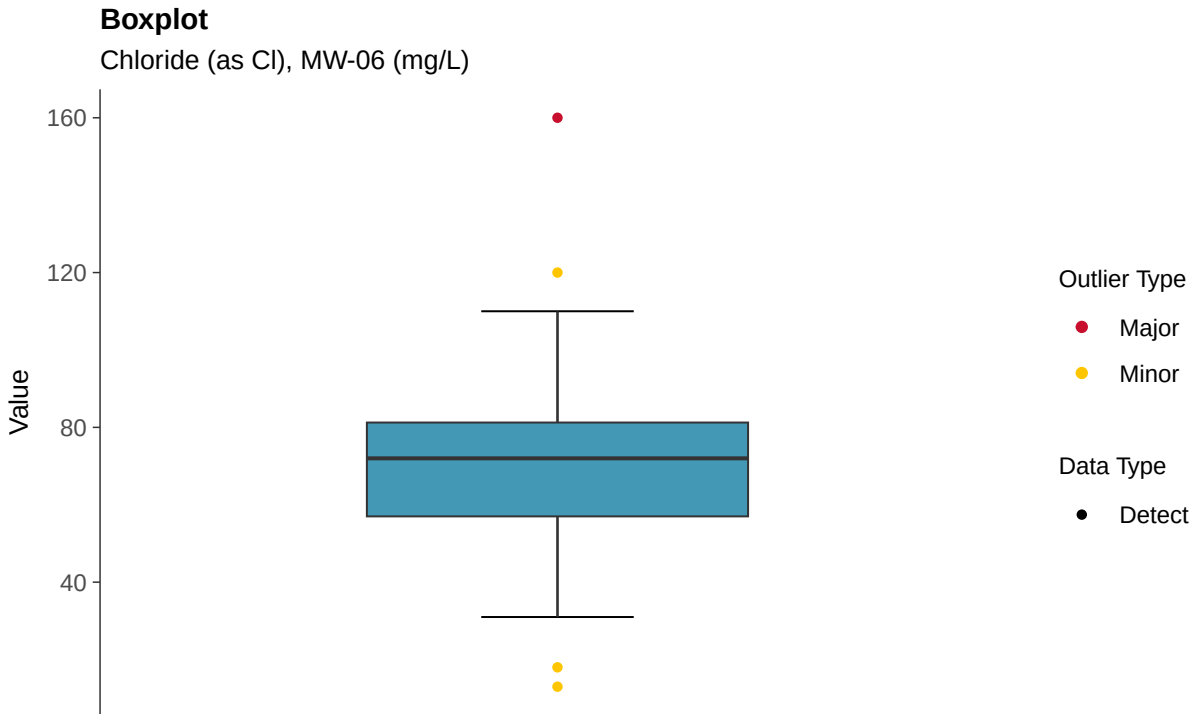


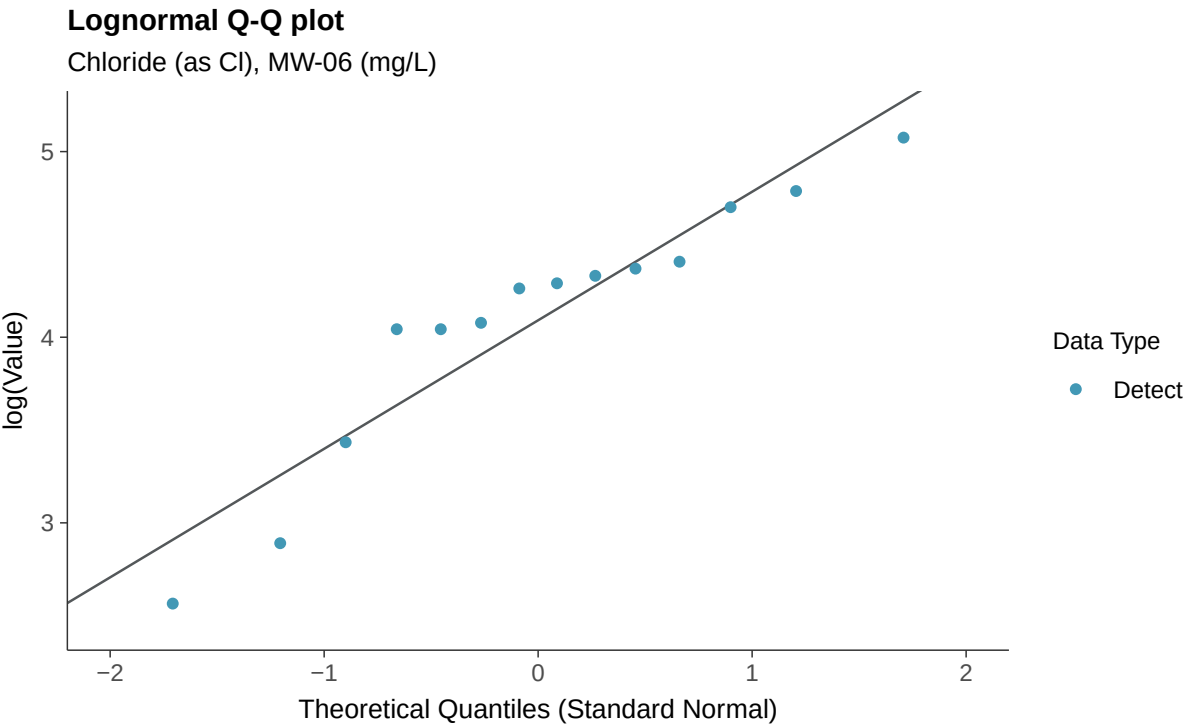
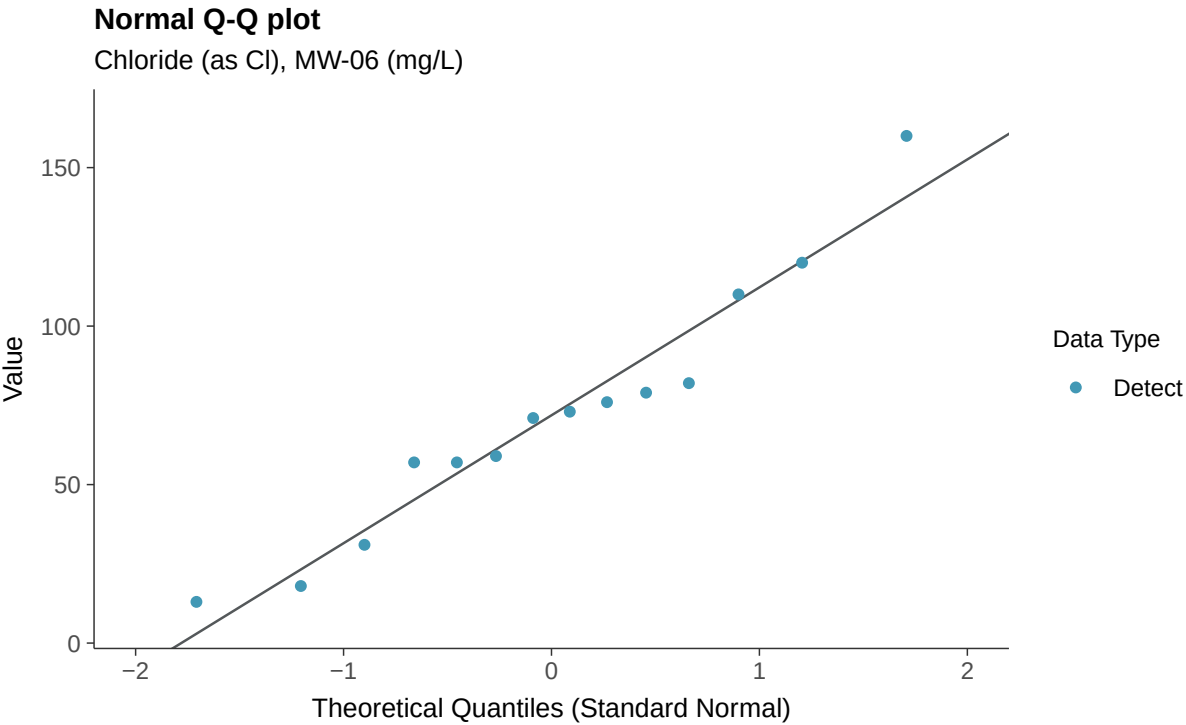


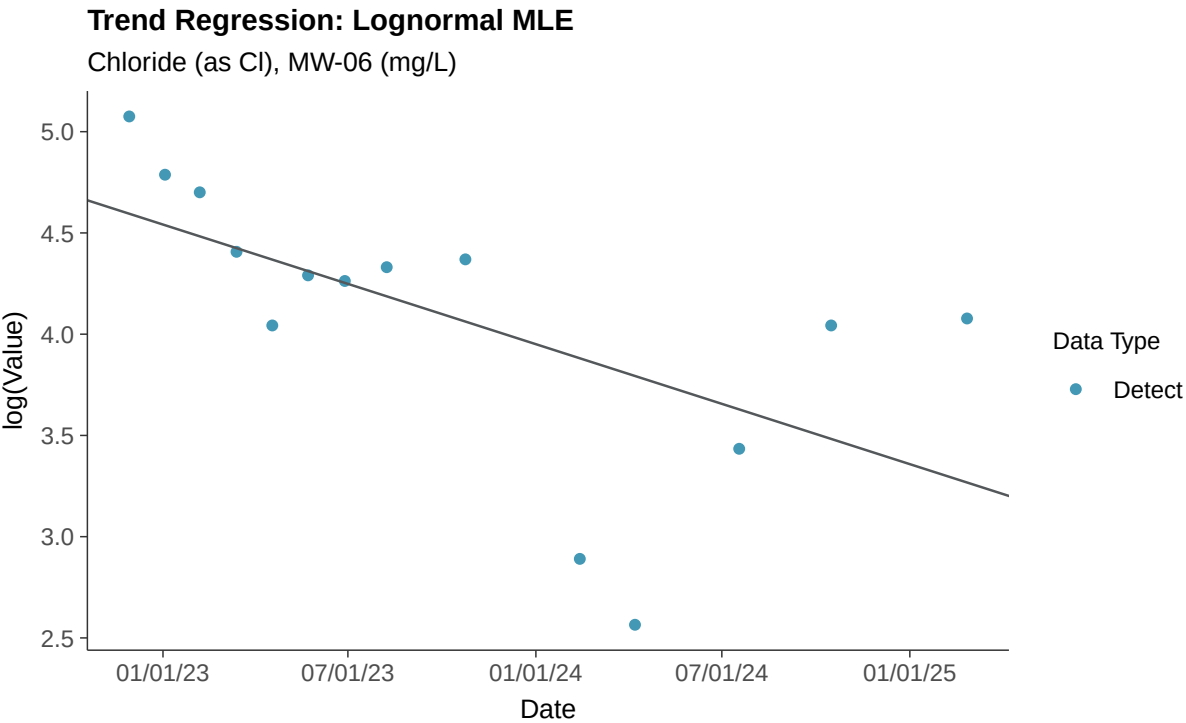
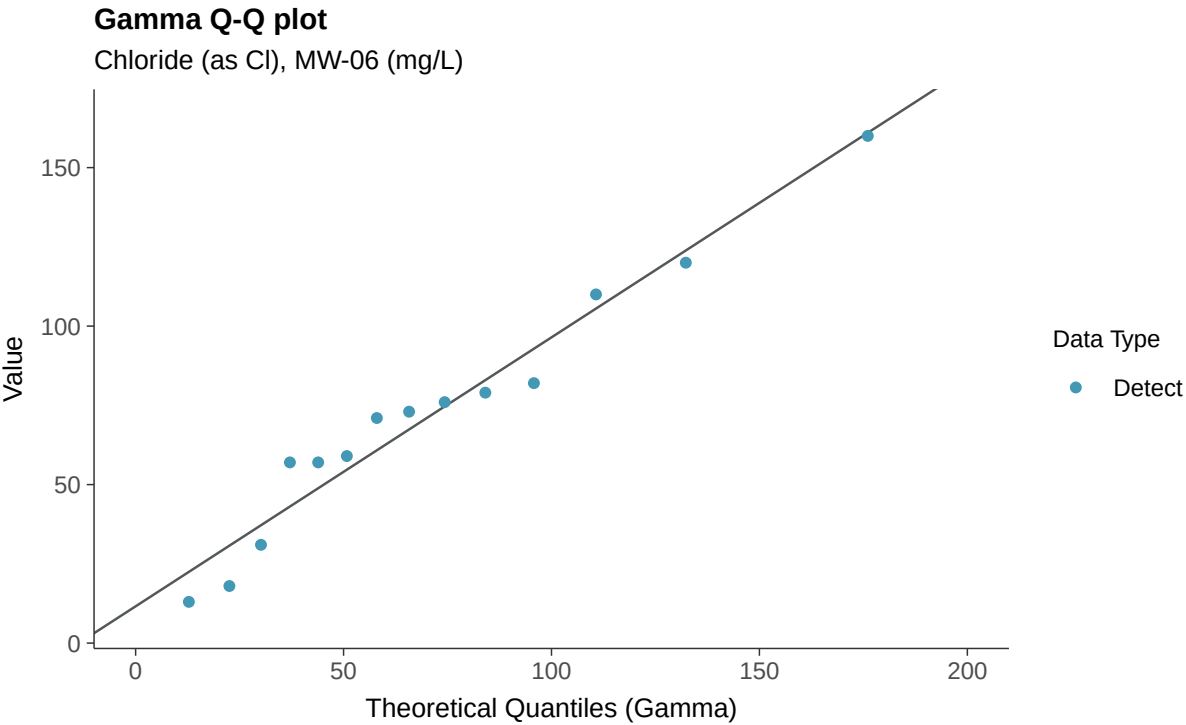
Appendix III: Chloride (as Cl), MW-06

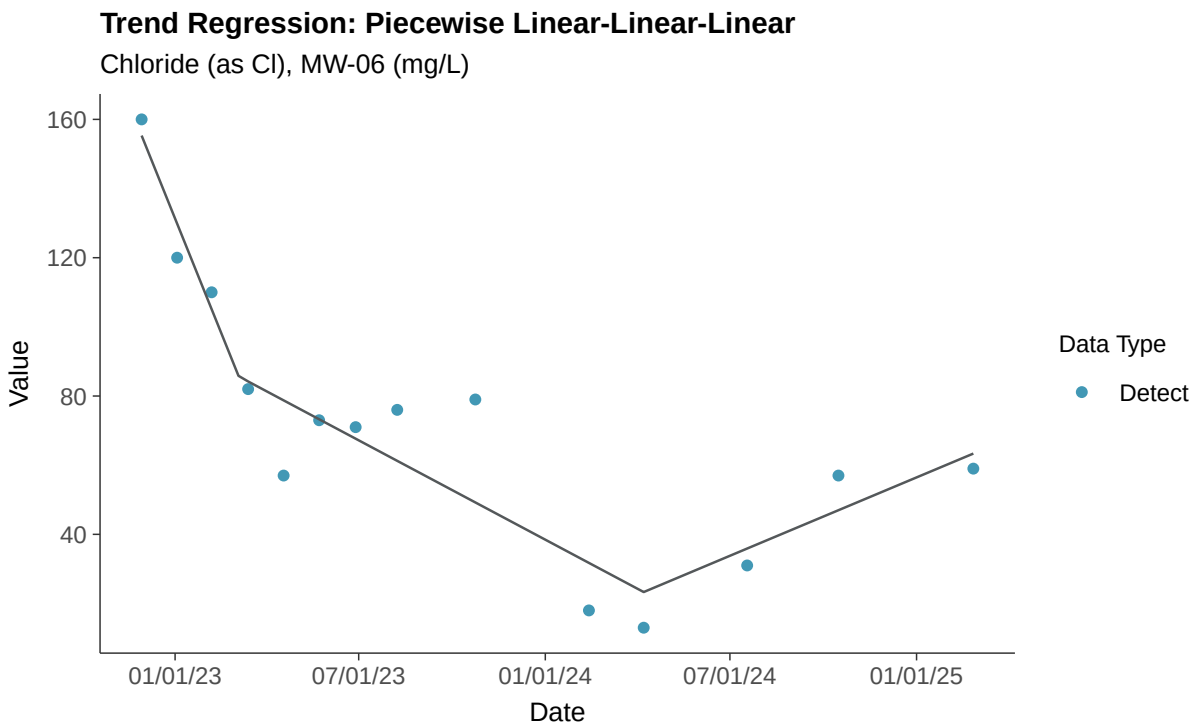
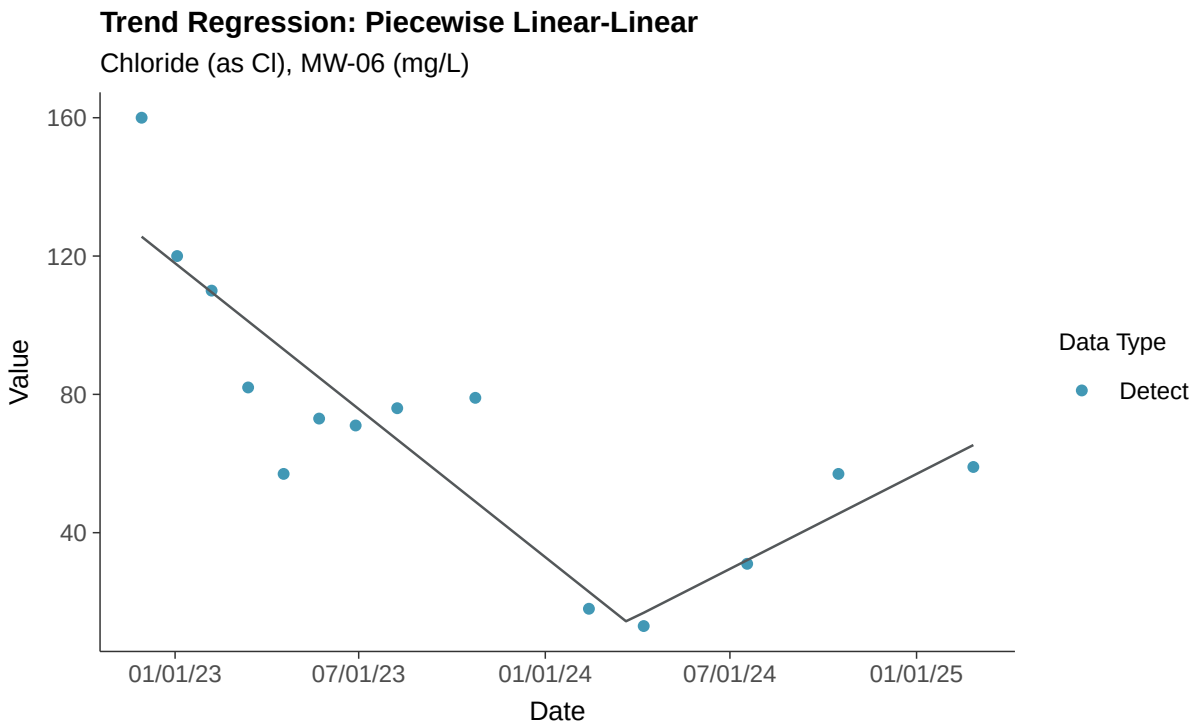
ID: 16_1_3_108







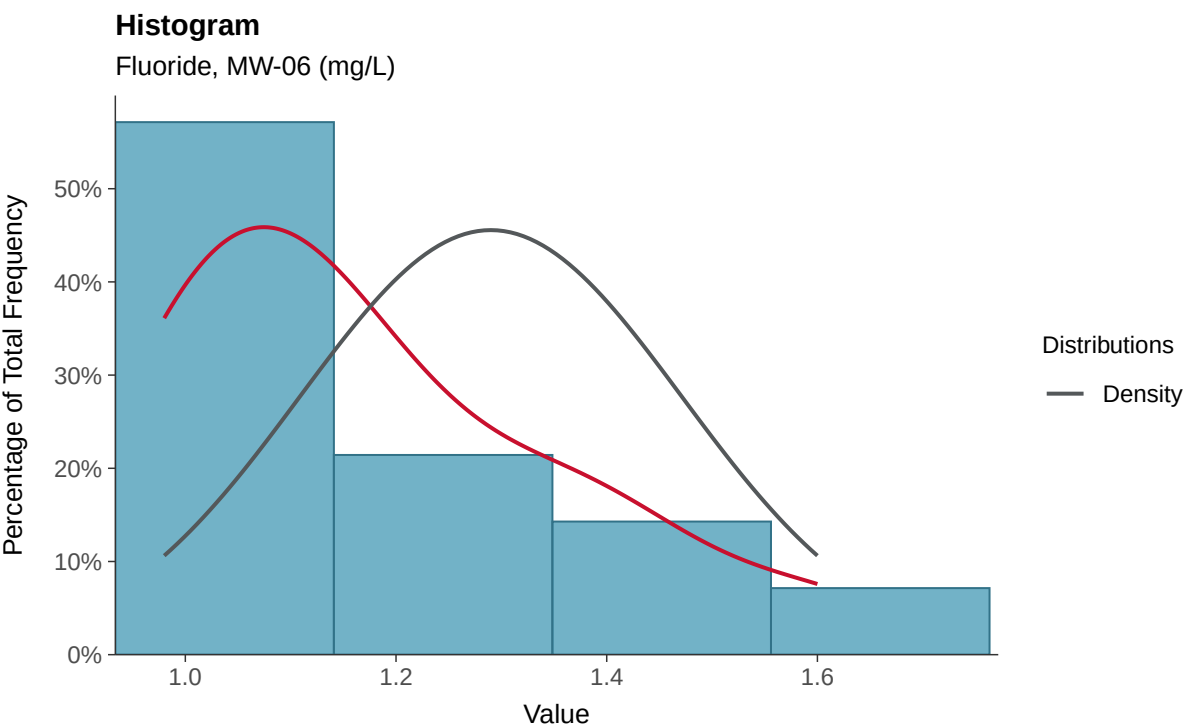
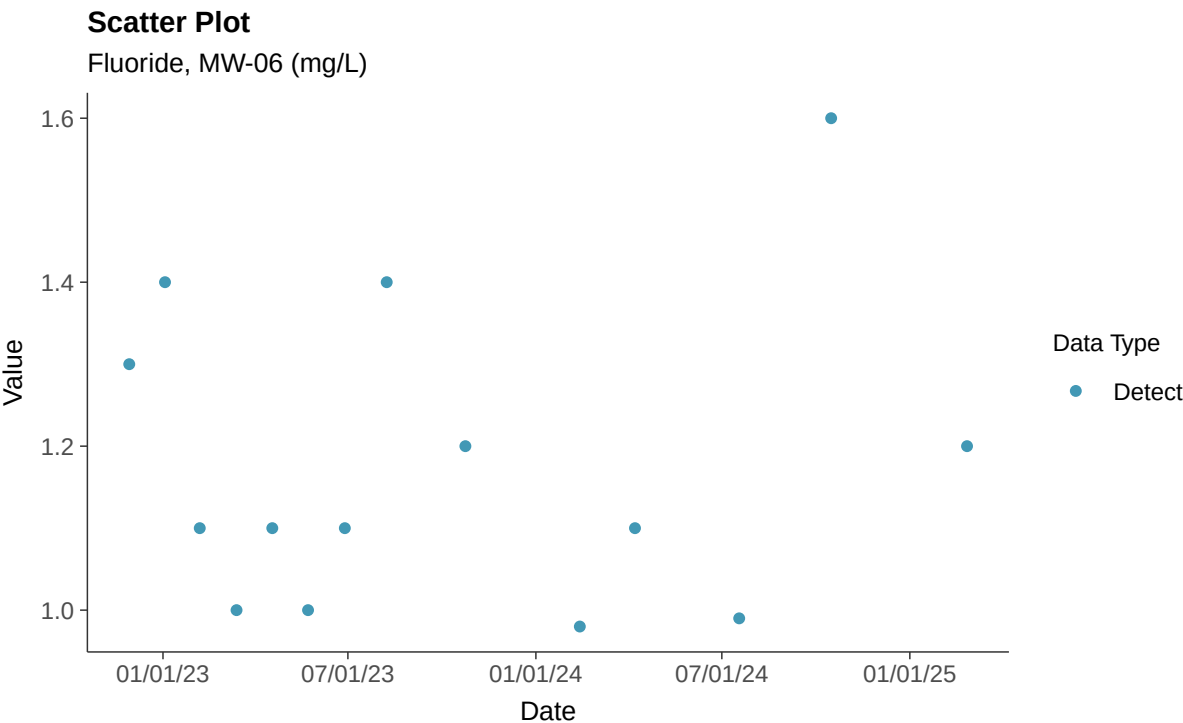


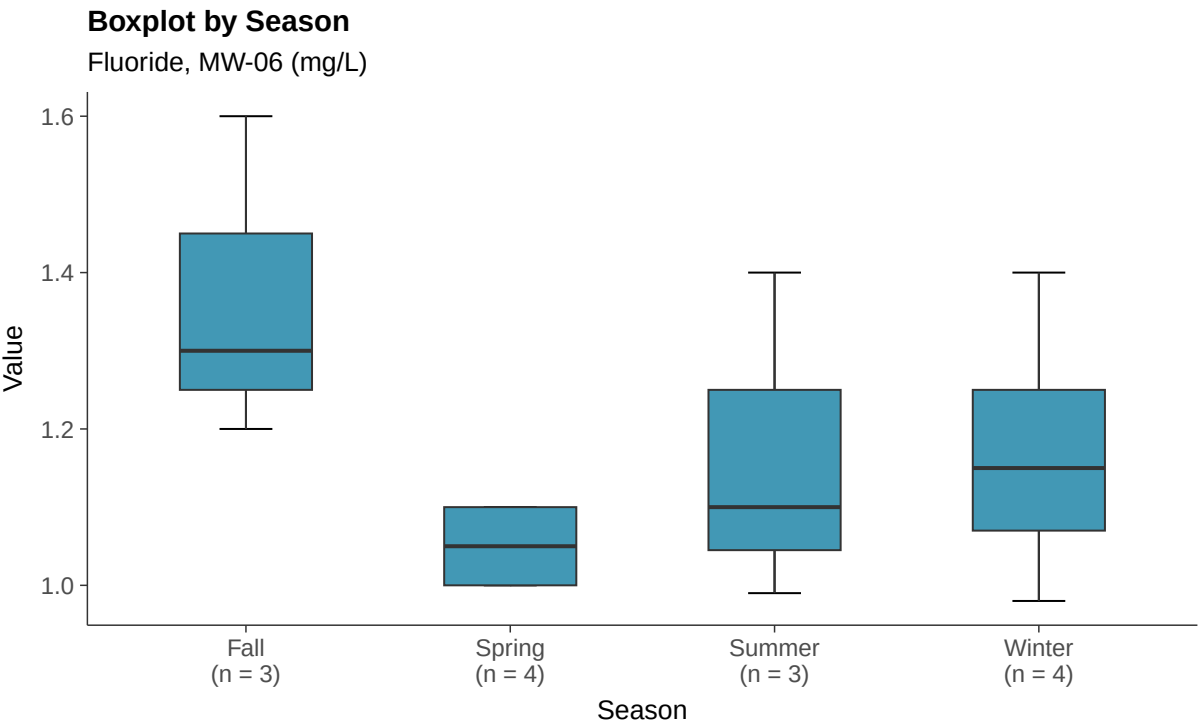
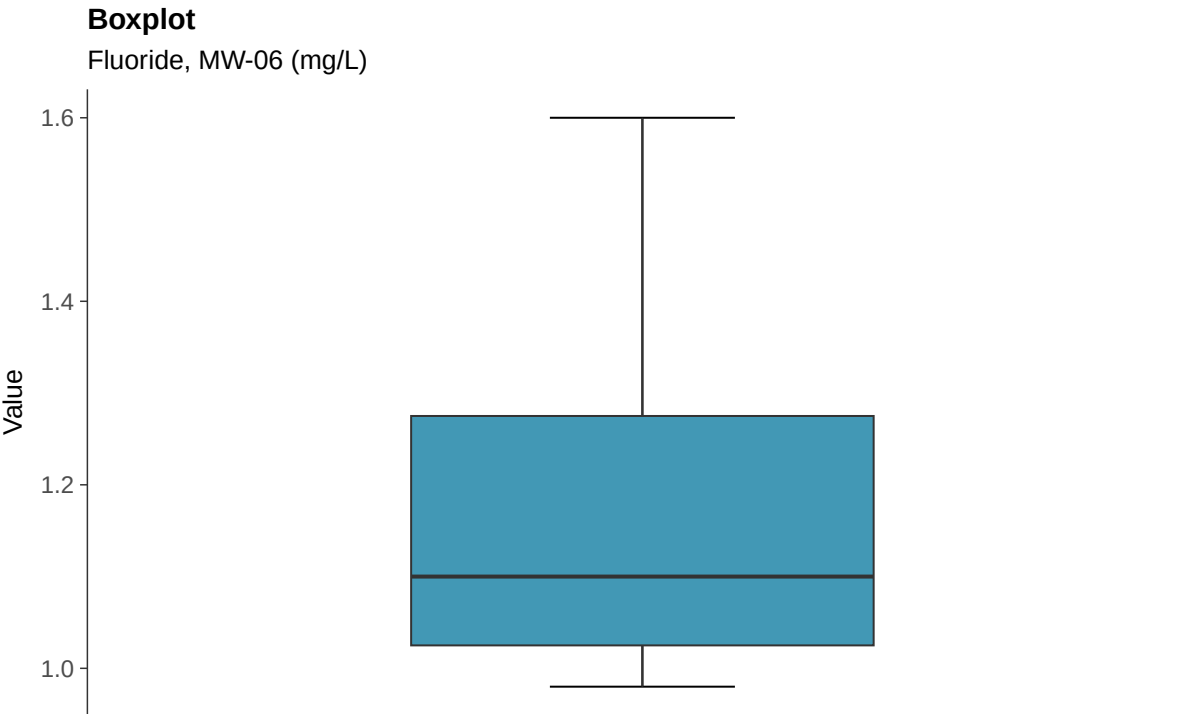


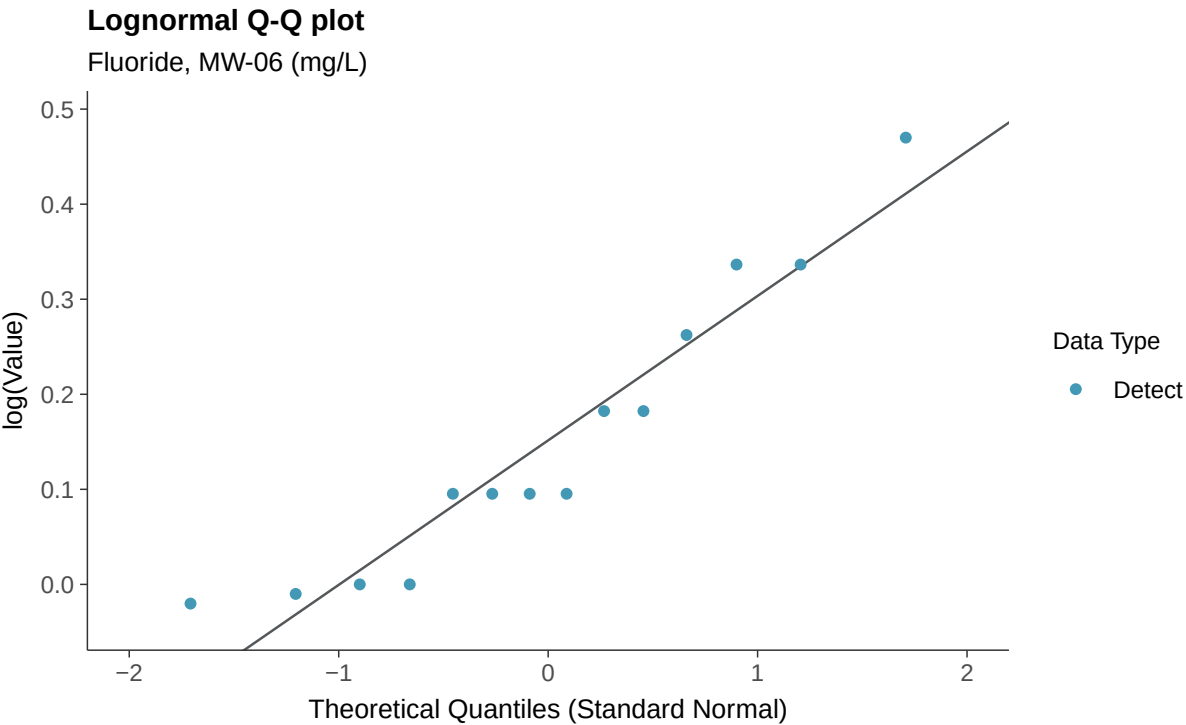
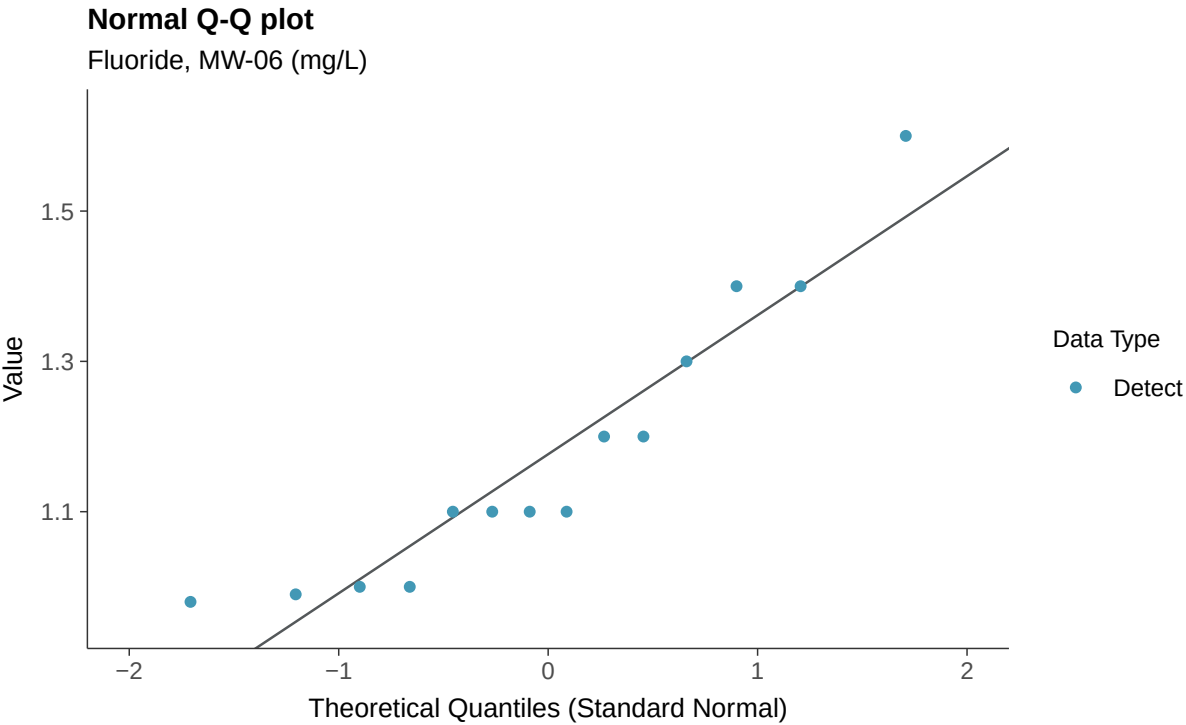


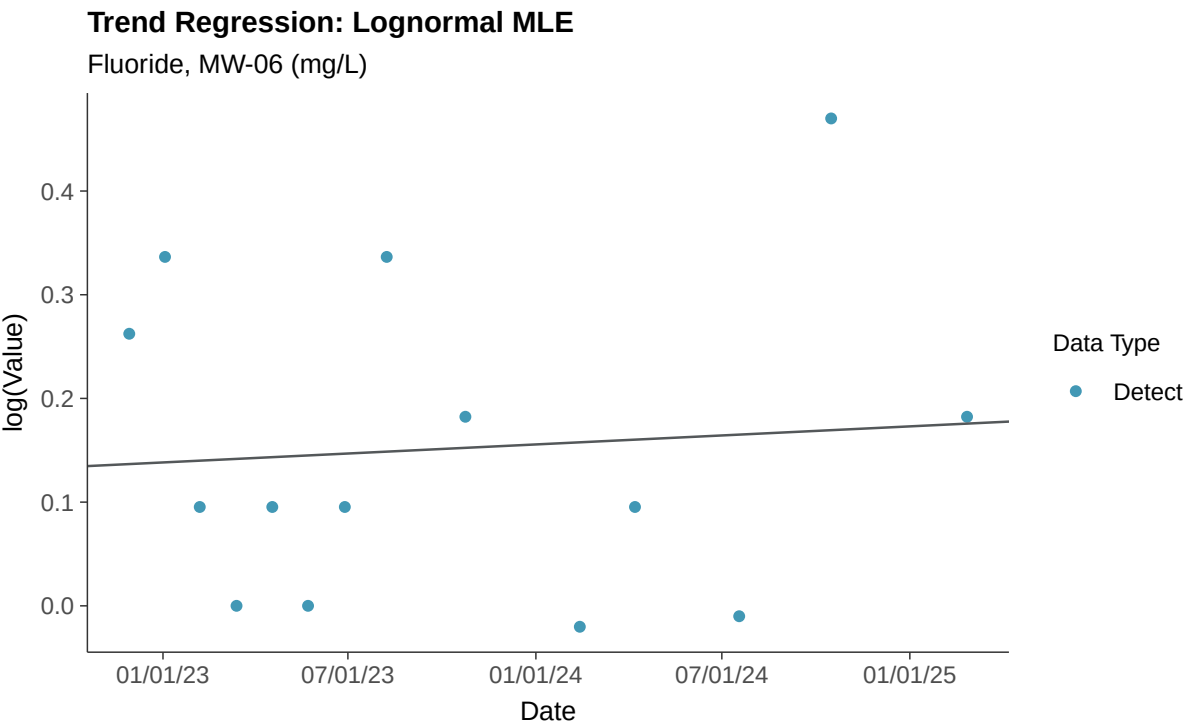
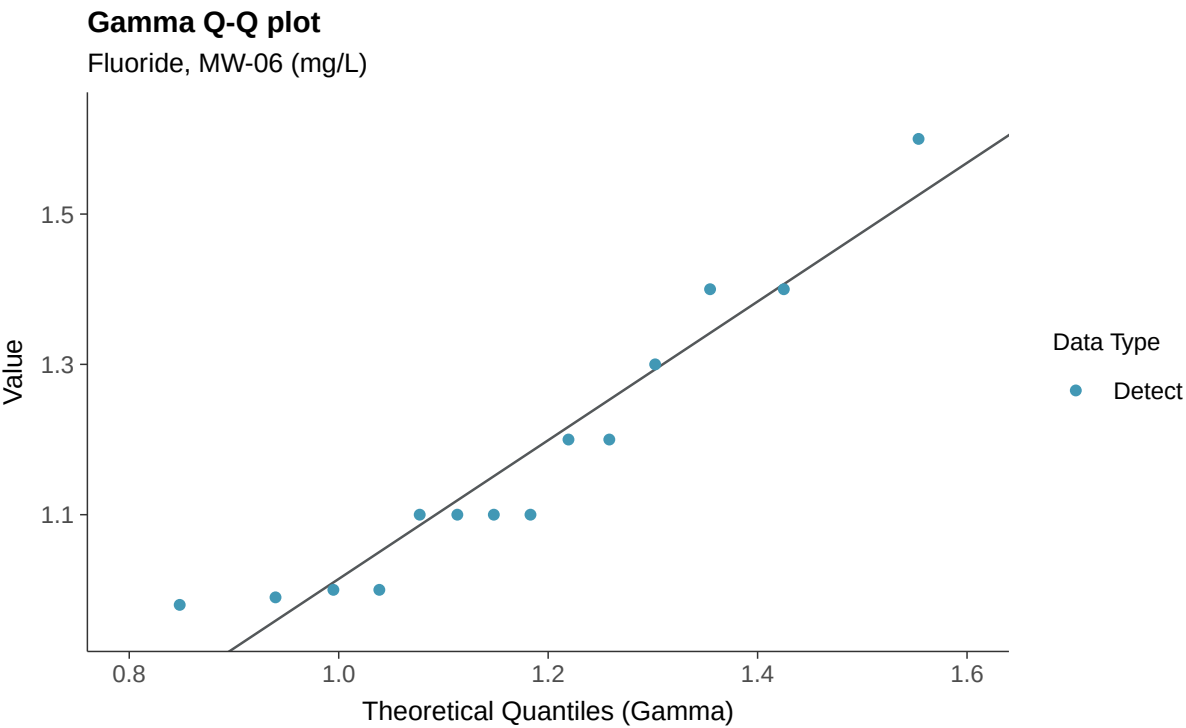
Appendix III: Fluoride, MW-06

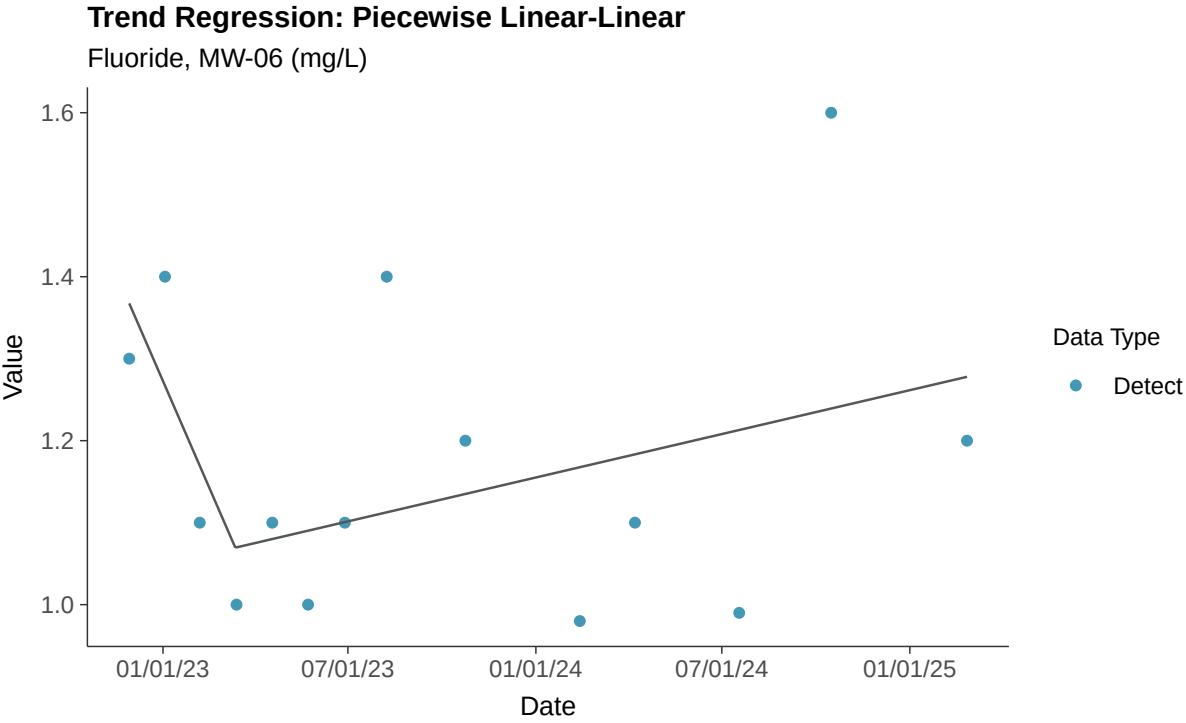
ID: 16_1_3_112







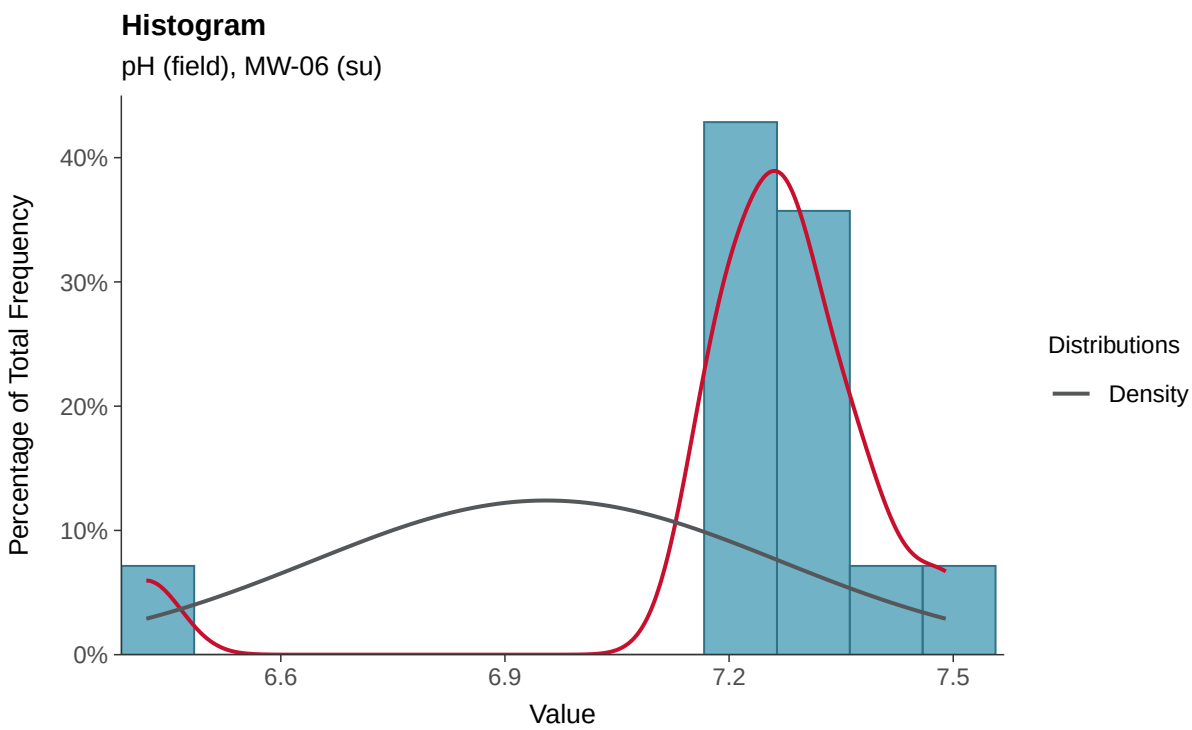
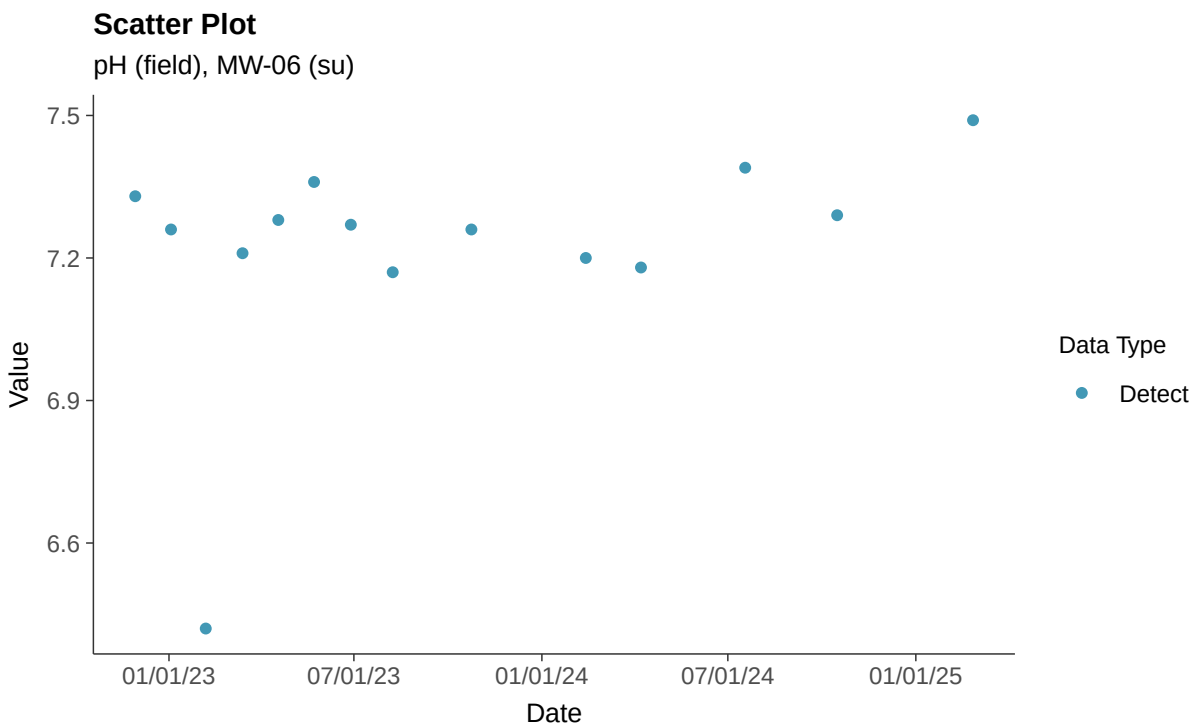


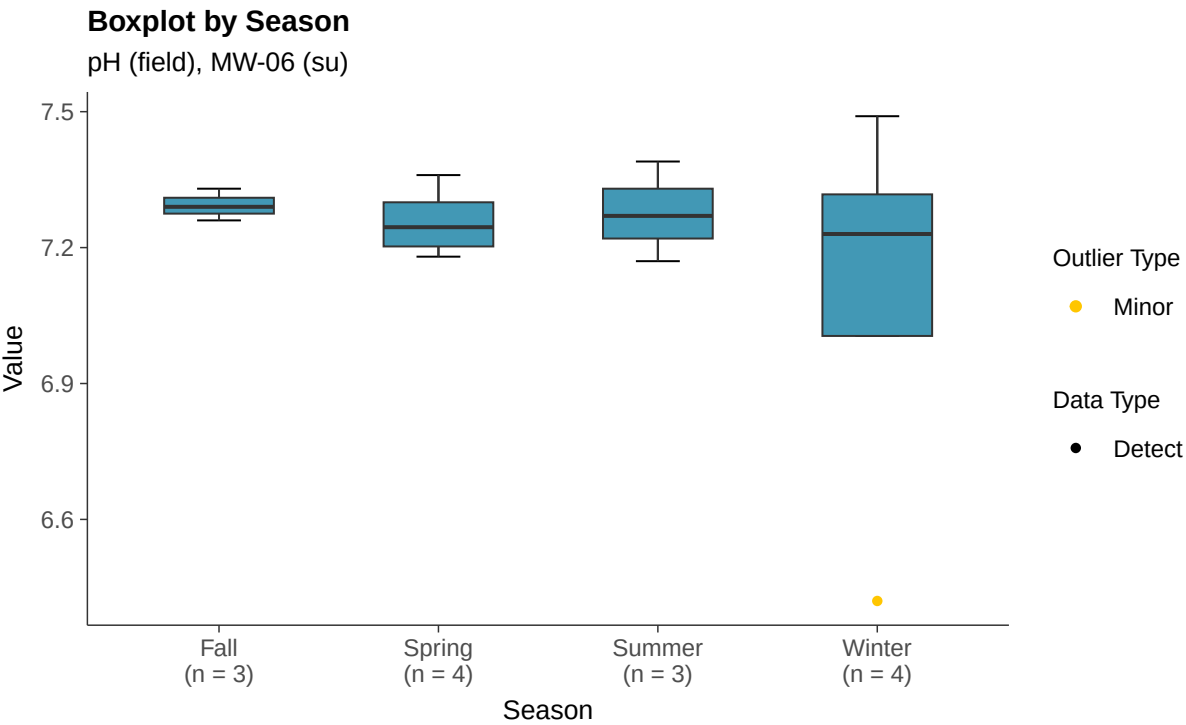
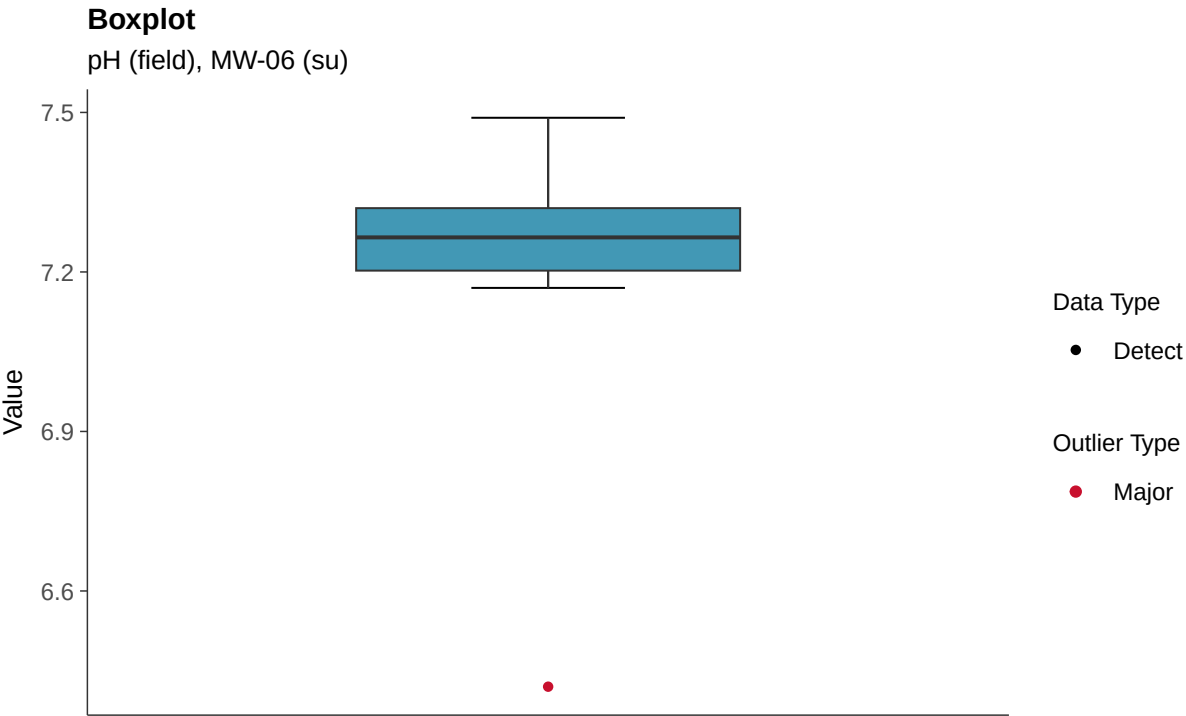


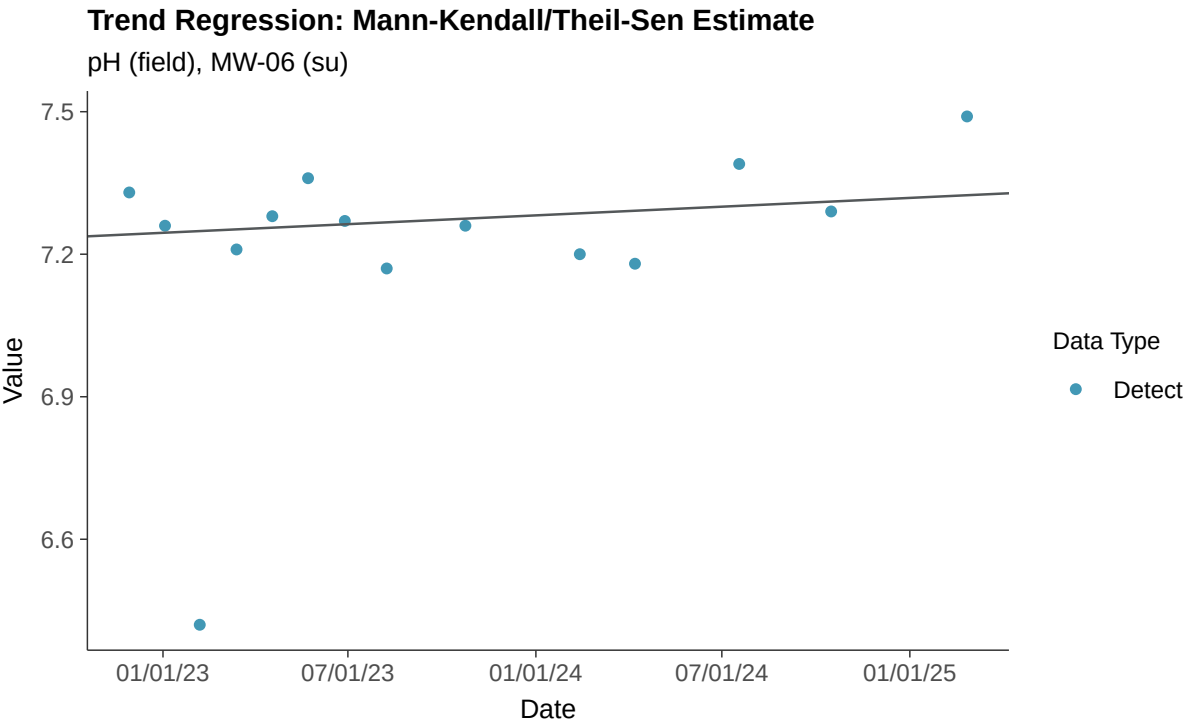
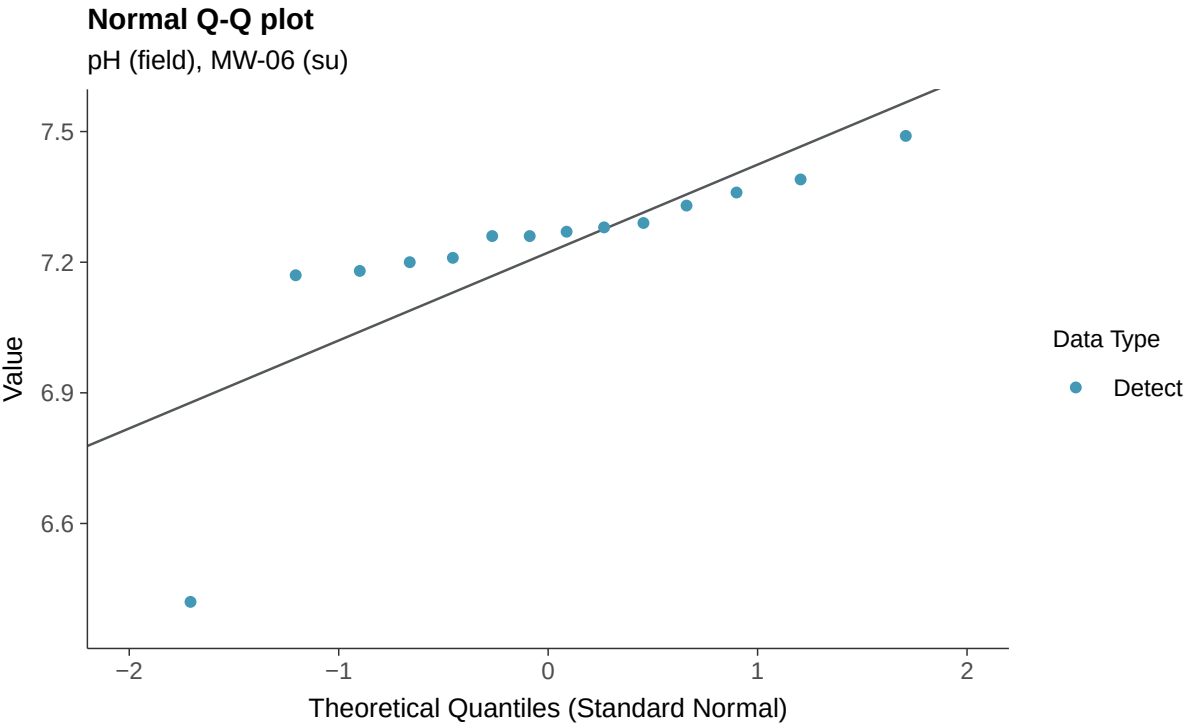


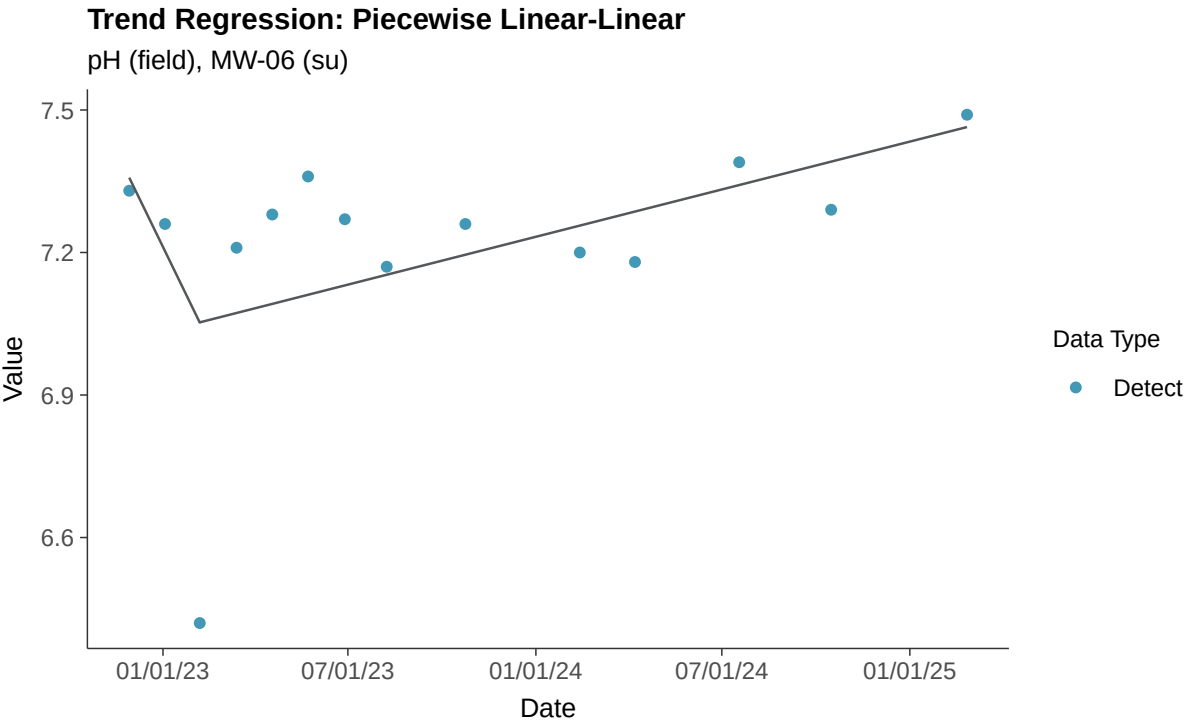
Appendix III: pH (field), MW-06

ID: 16_1_3_120





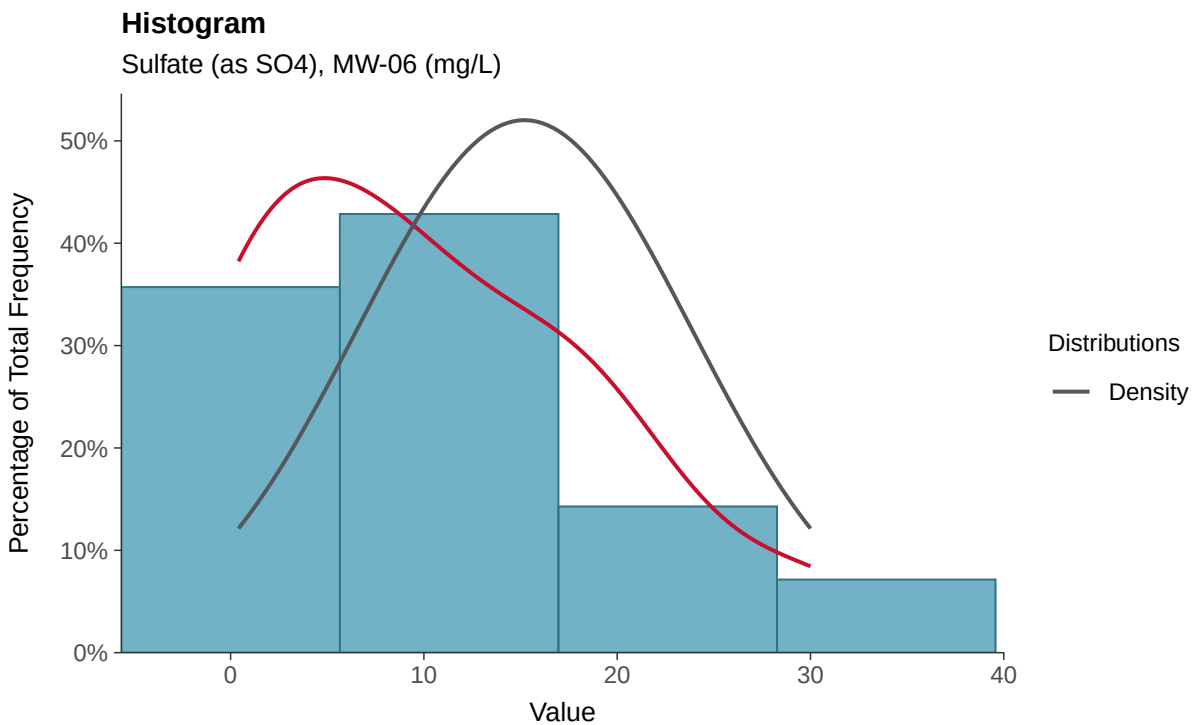
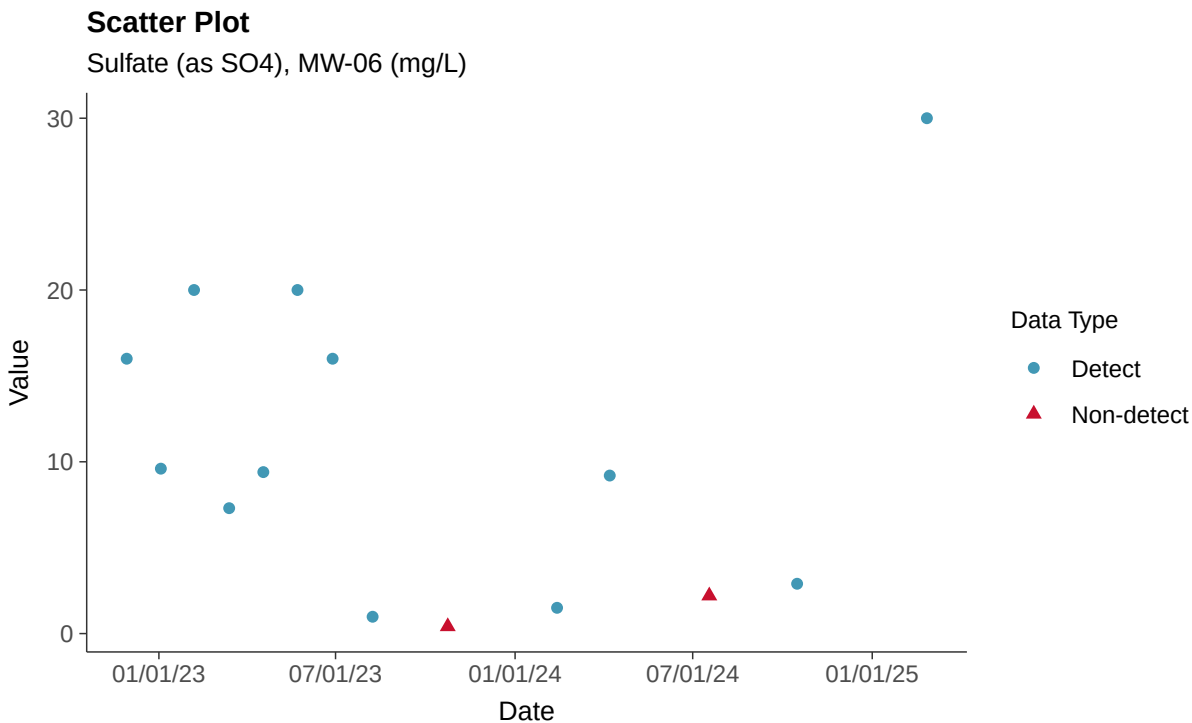


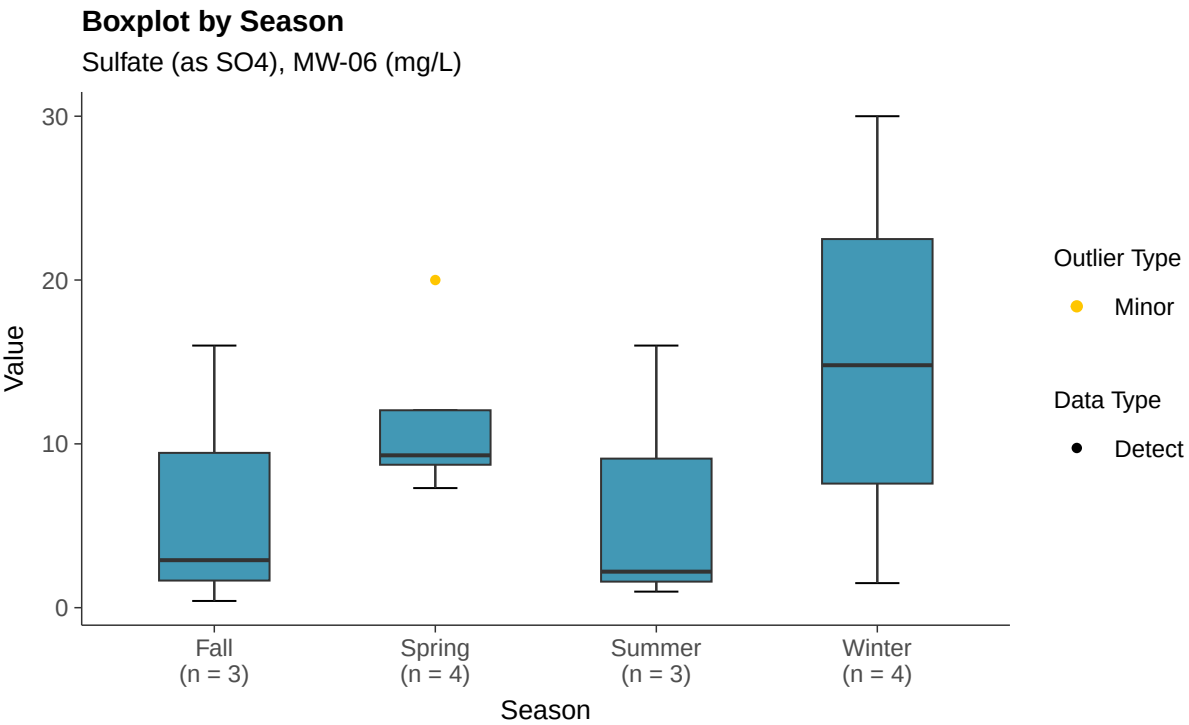
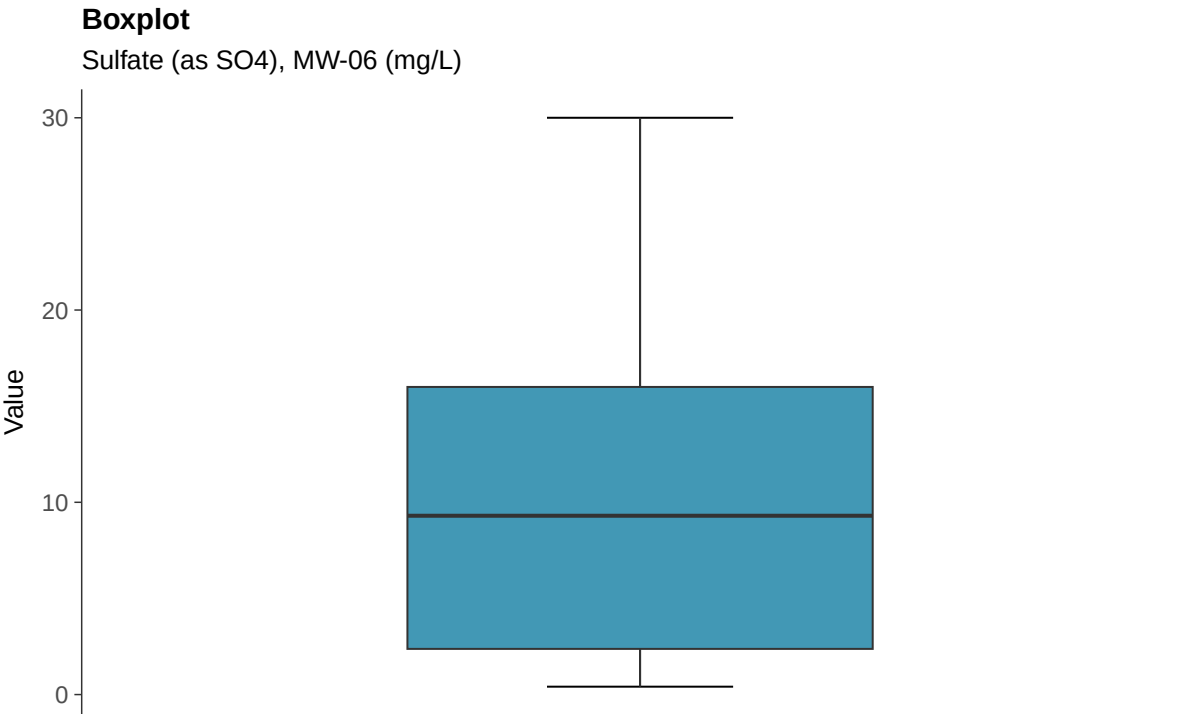


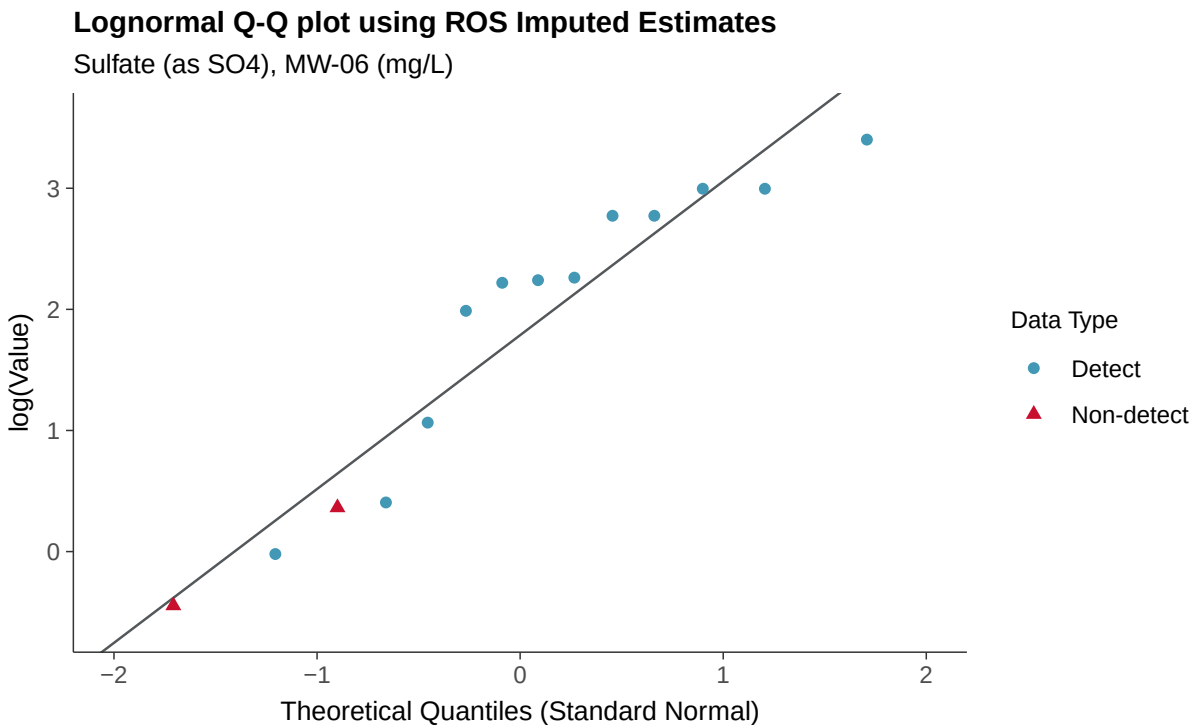
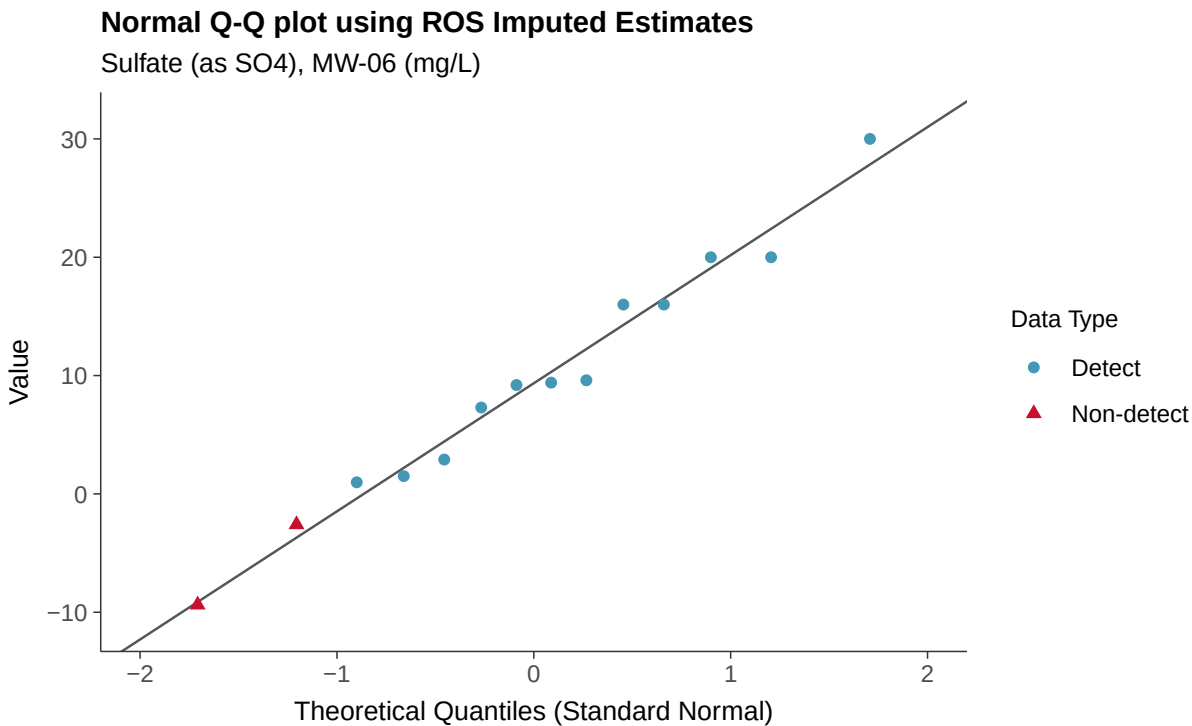


Appendix III: Sulfate (as SO₄), MW-06

ID: 16_1_3_124



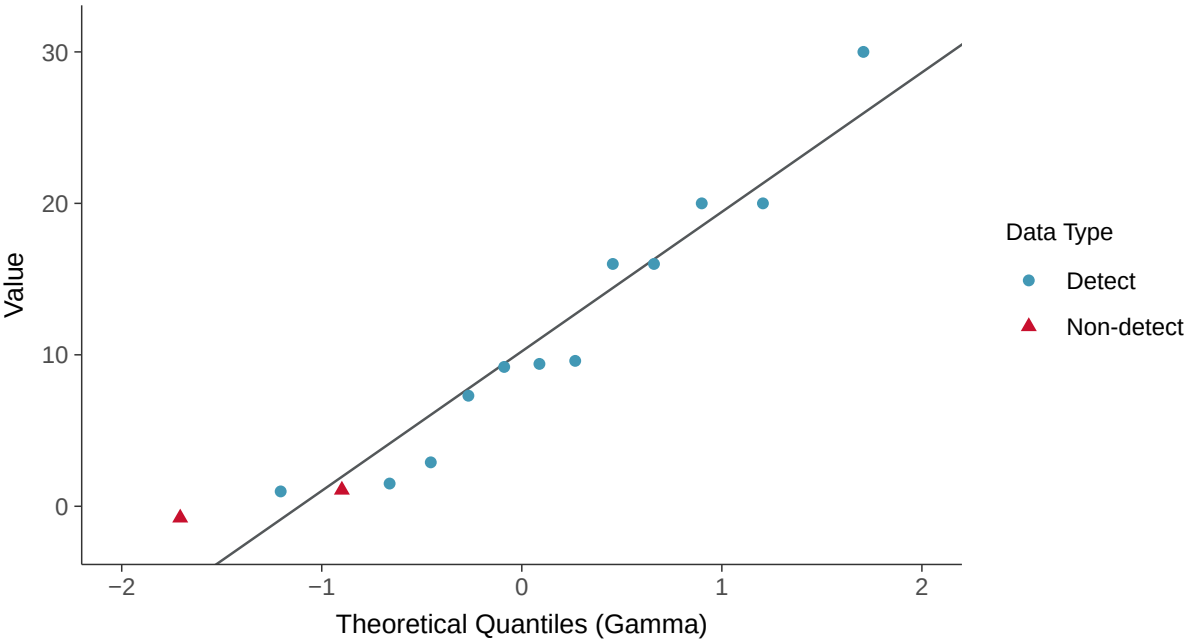






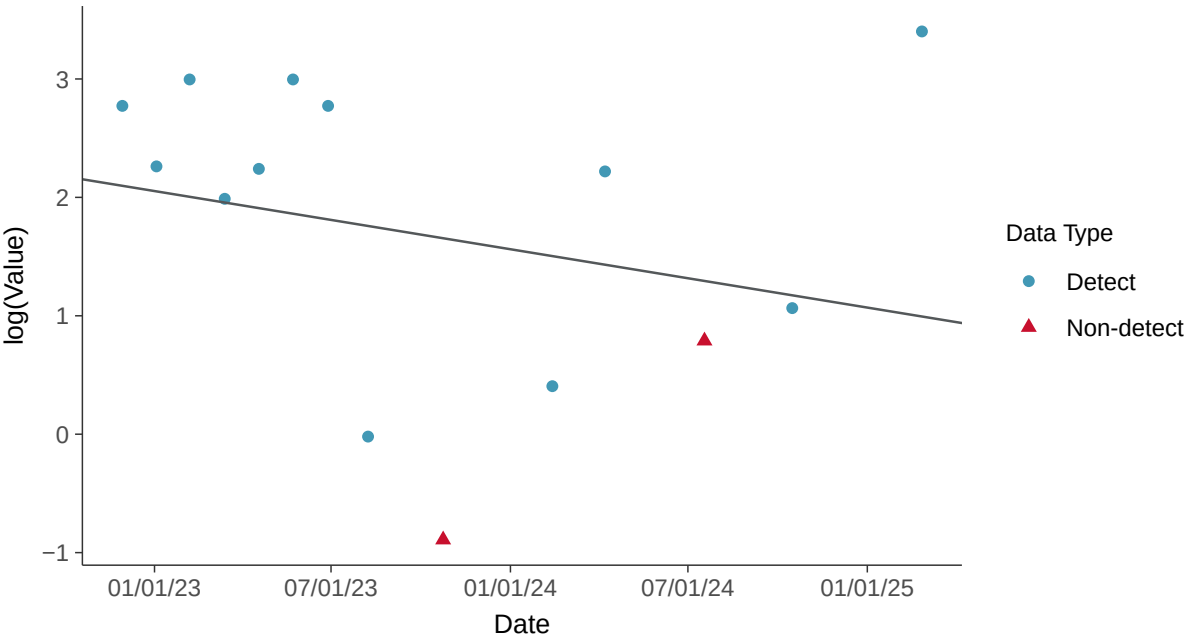
Gamma Q-Q plot using ROS Imputed Estimates

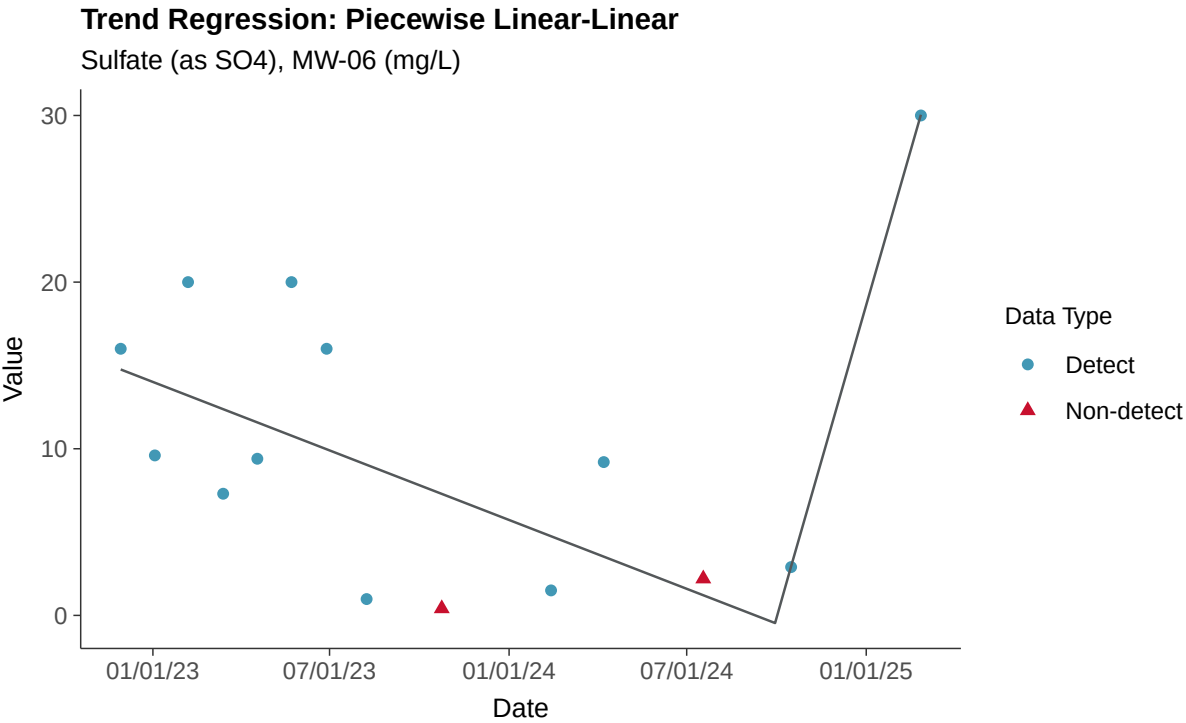
Sulfate (as SO₄), MW-06 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-06 (mg/L)

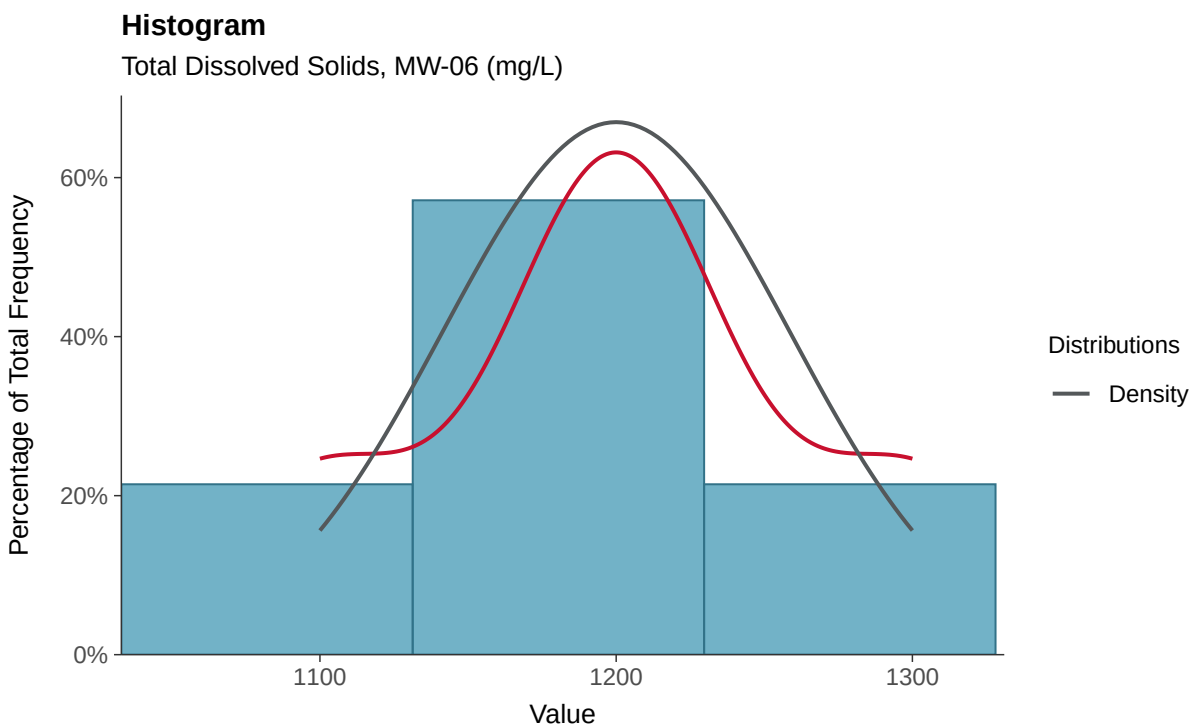
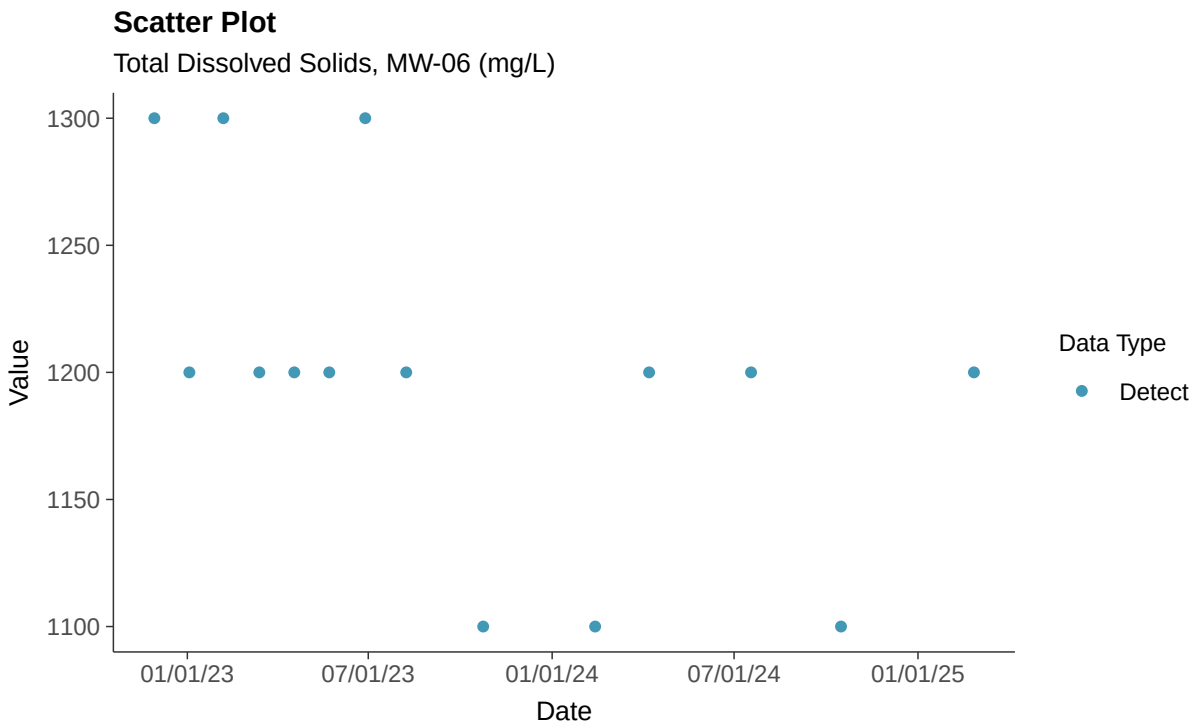


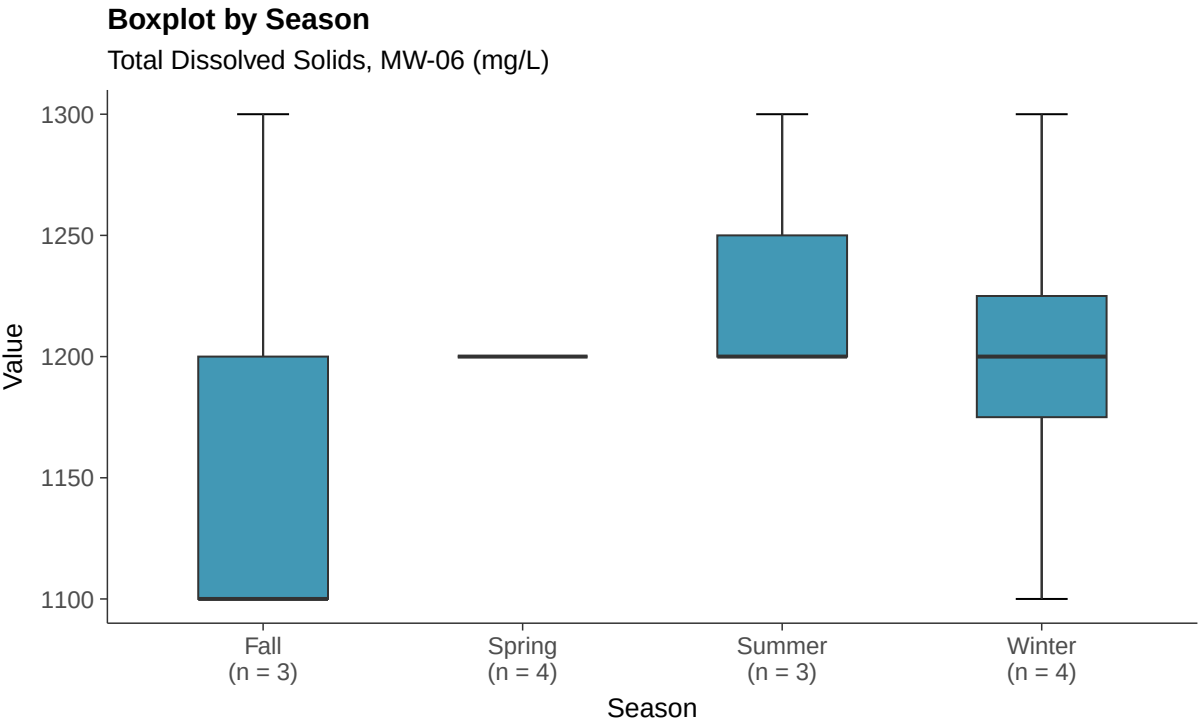
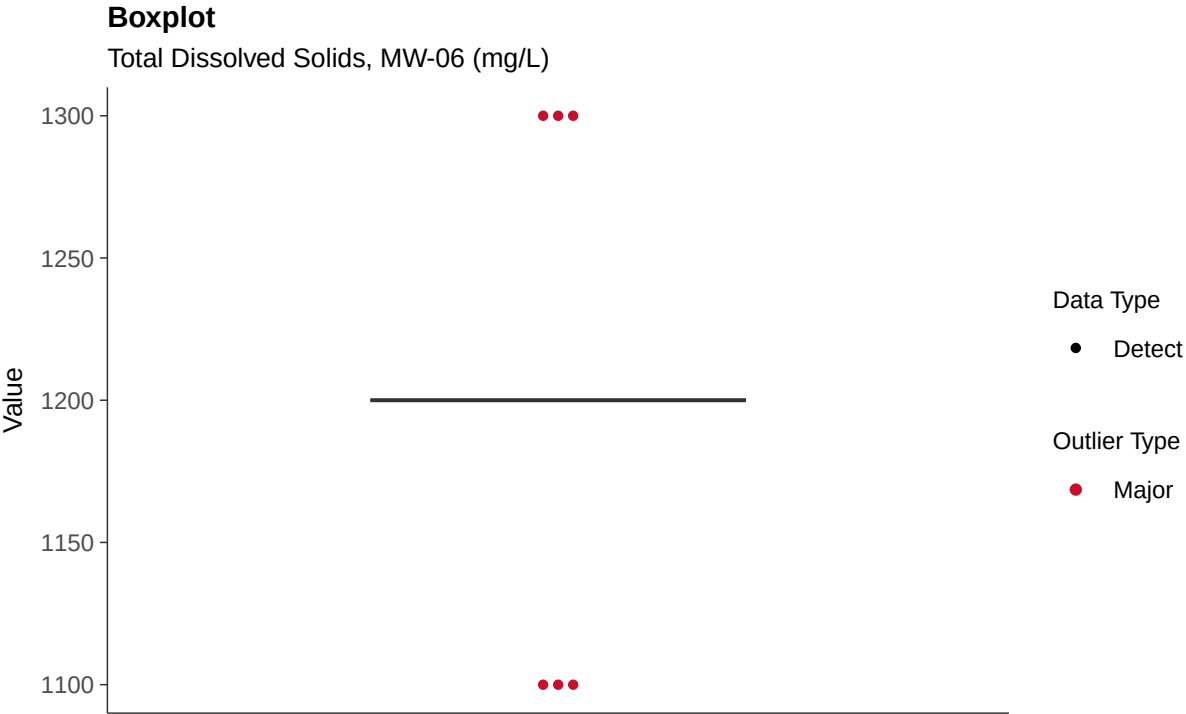


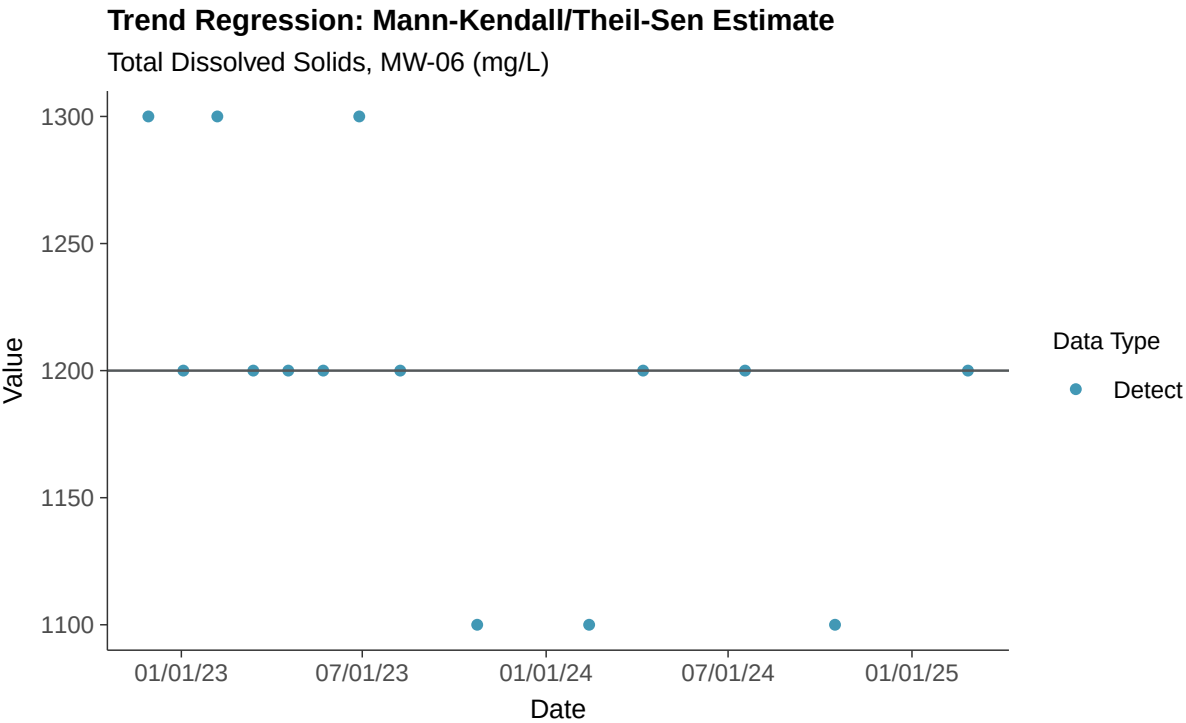
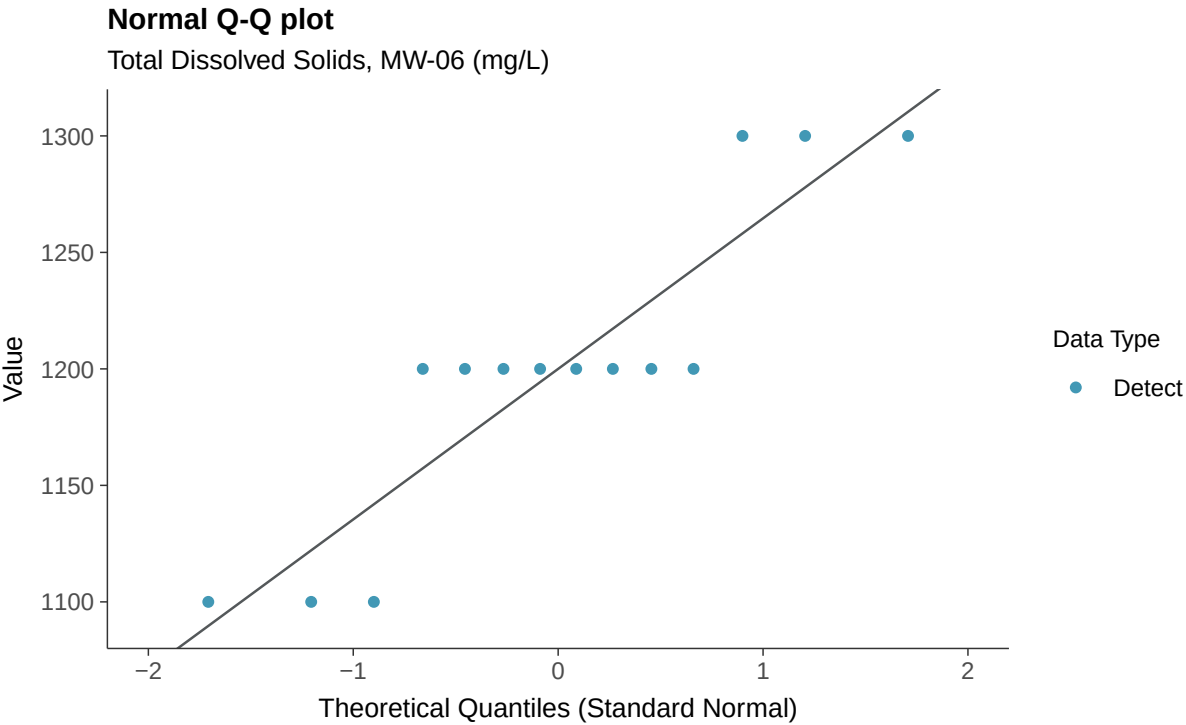


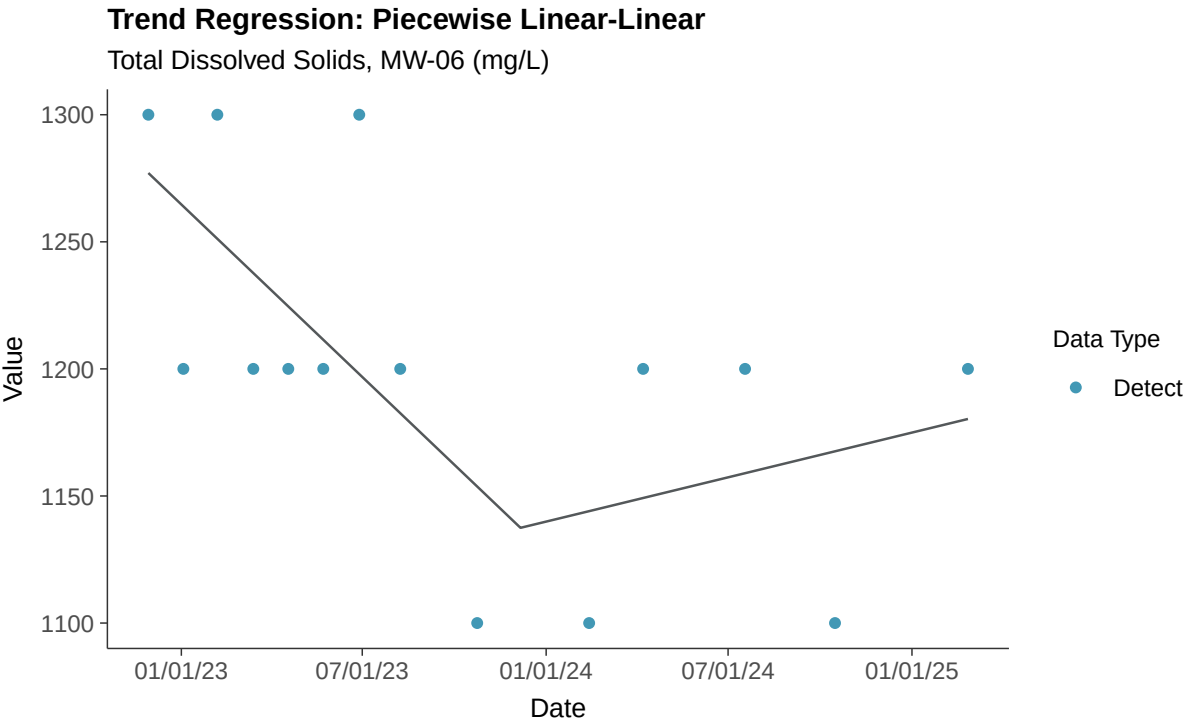
Appendix III: Total Dissolved Solids, MW-06

ID: 16_1_3_126





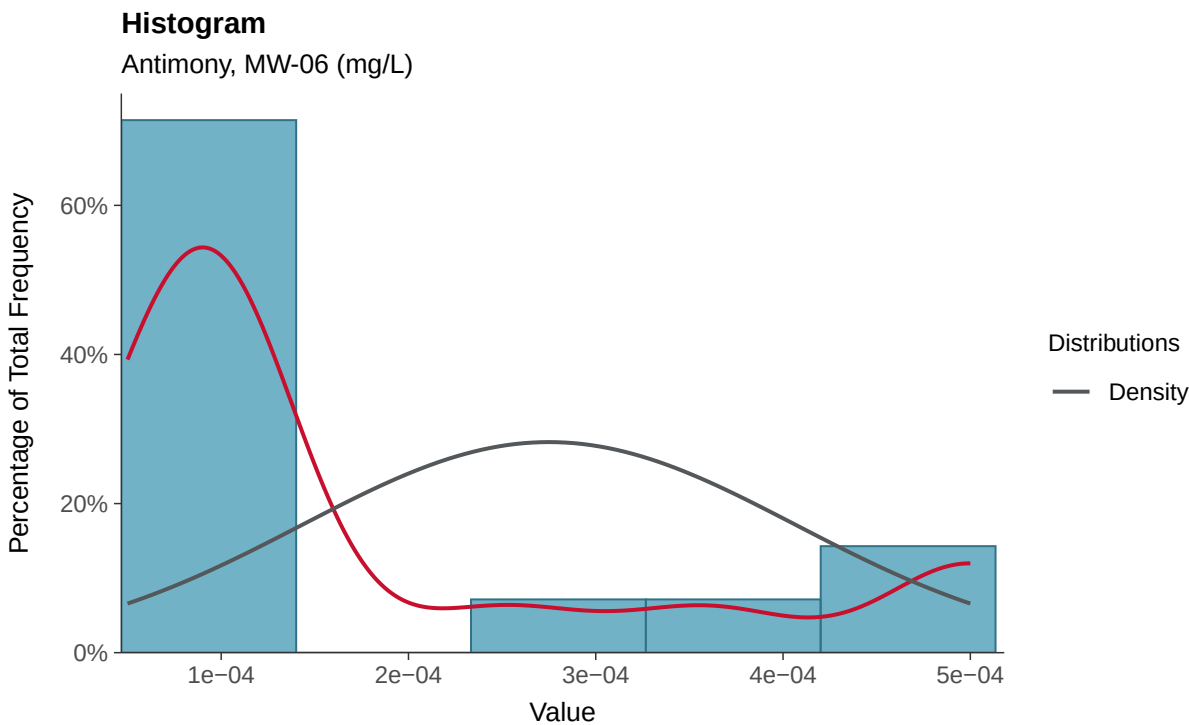
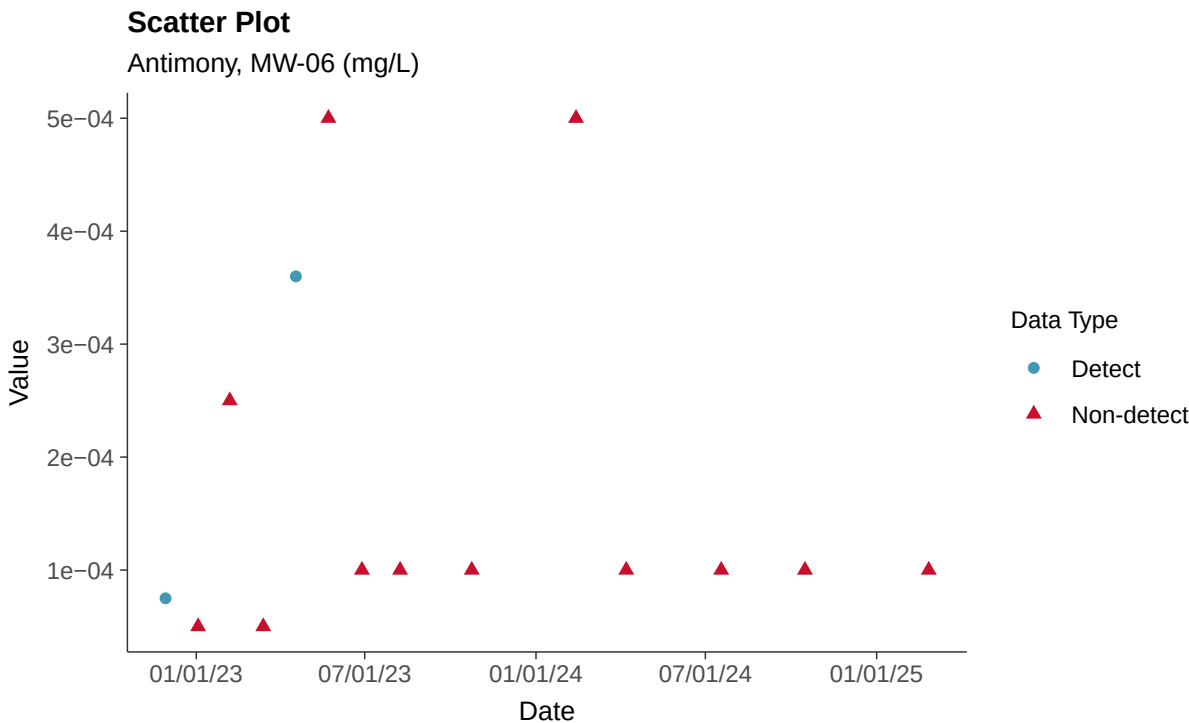






Appendix IV: Antimony, MW-06

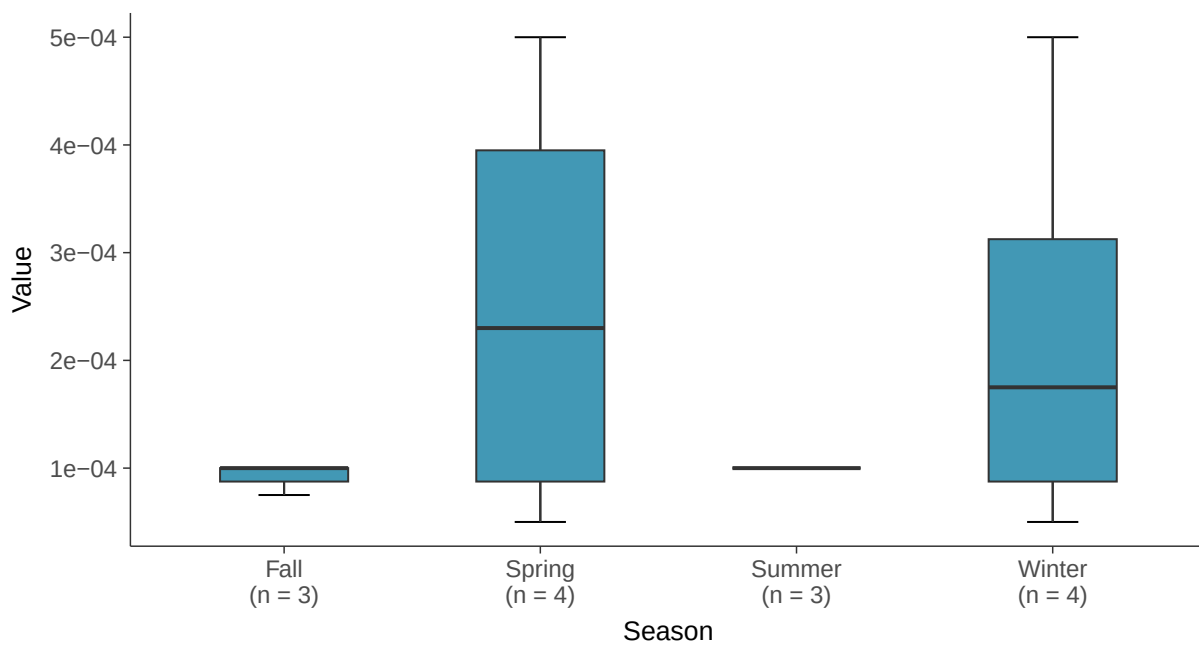
ID: 16_1_4_101



Antimony, MW-06 (mg/L)



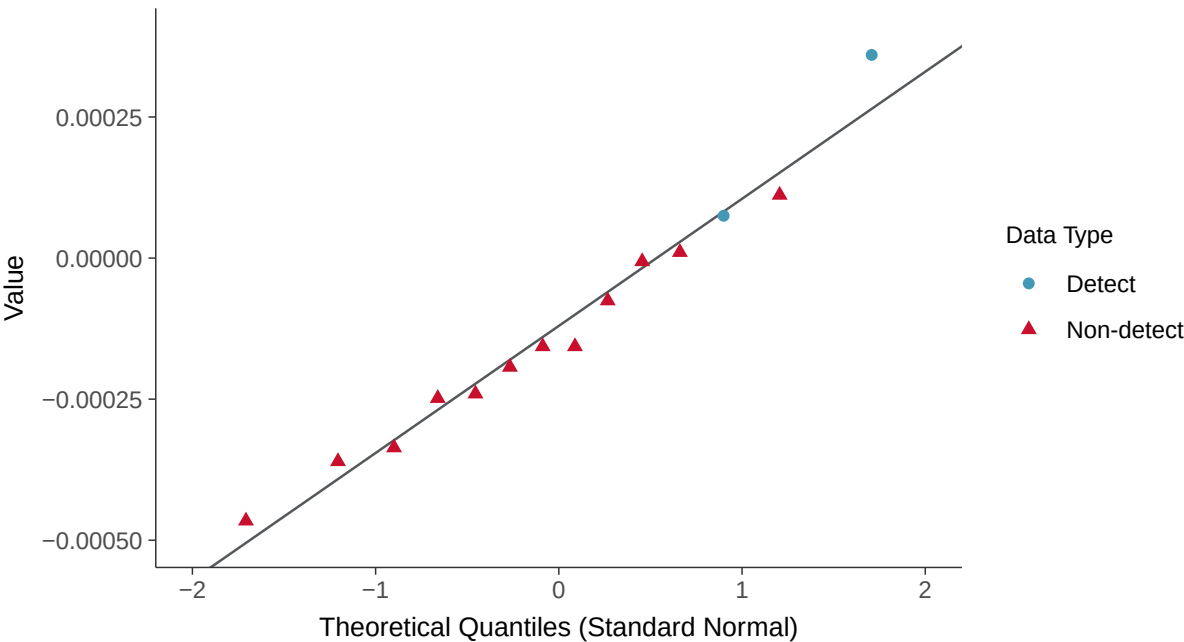
Antimony, MW-06 (mg/L)





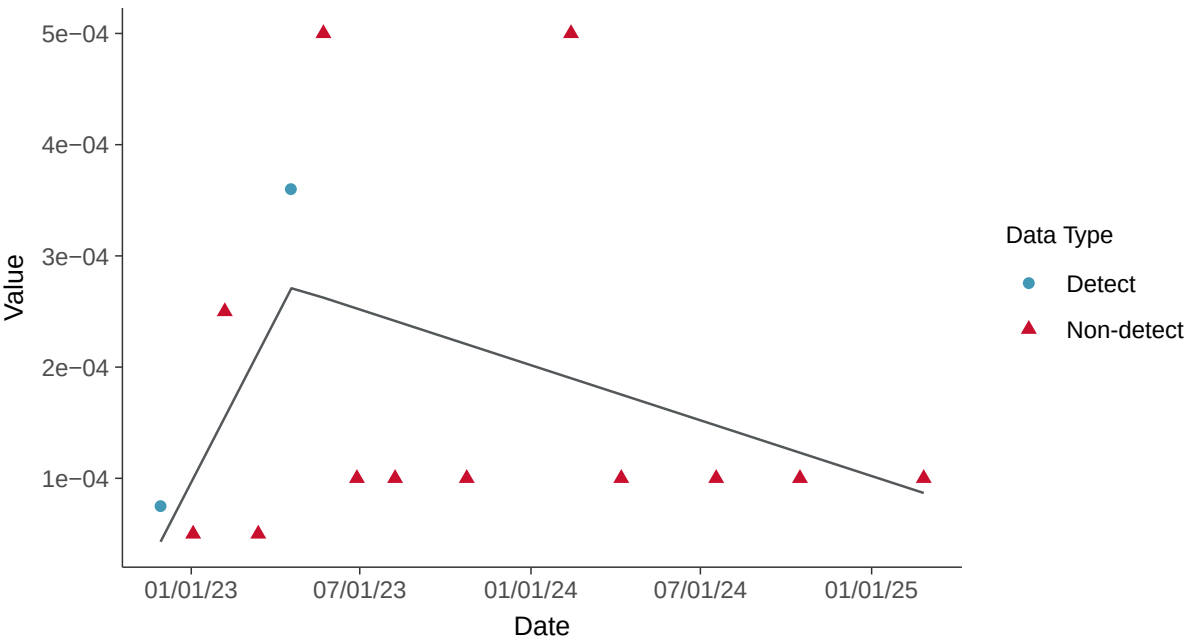
Normal Q-Q plot using ROS Imputed Estimates

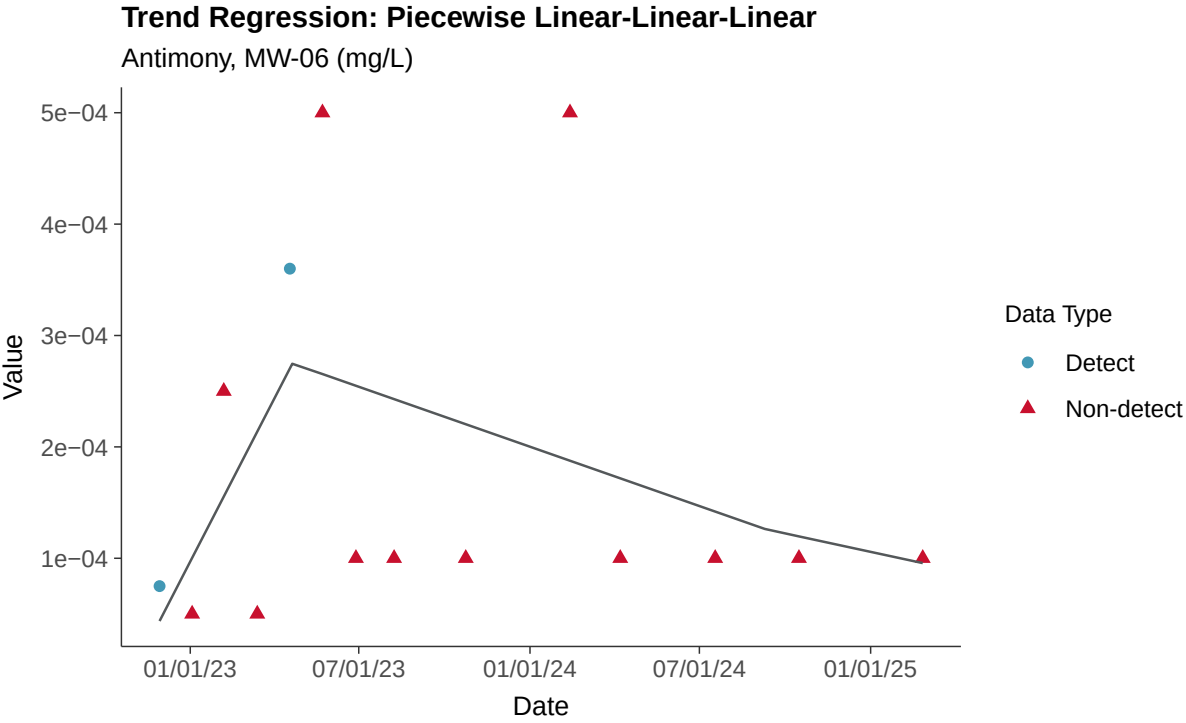
Antimony, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-06 (mg/L)

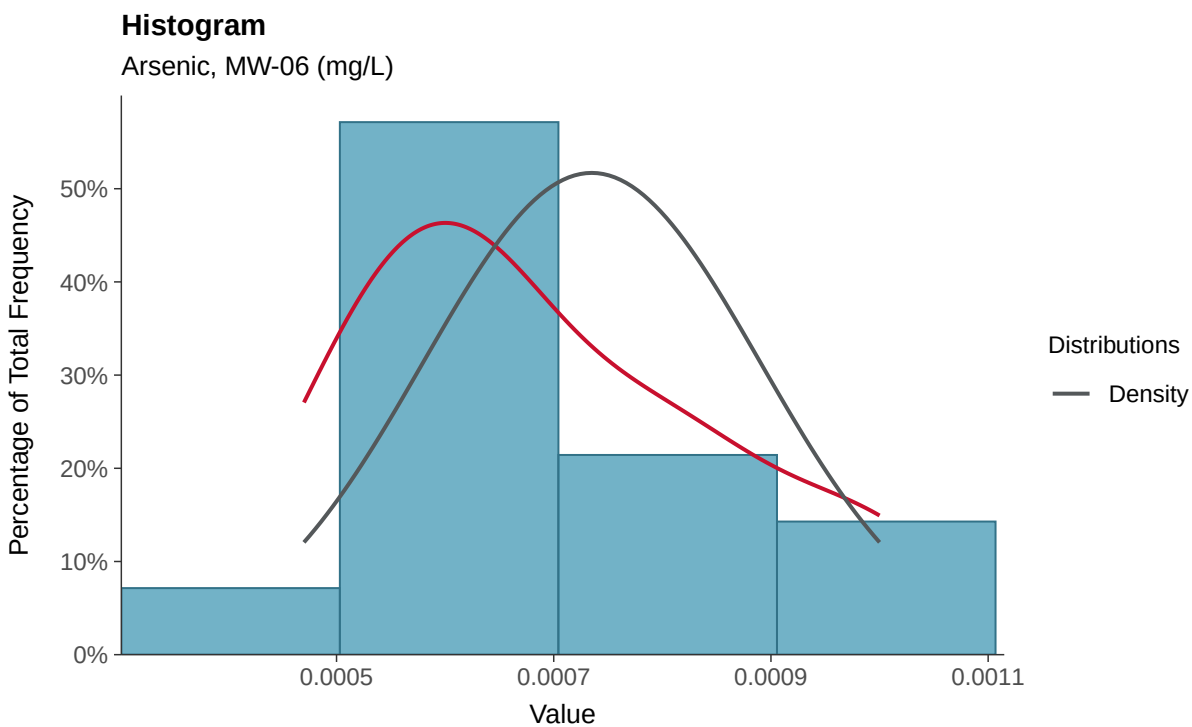
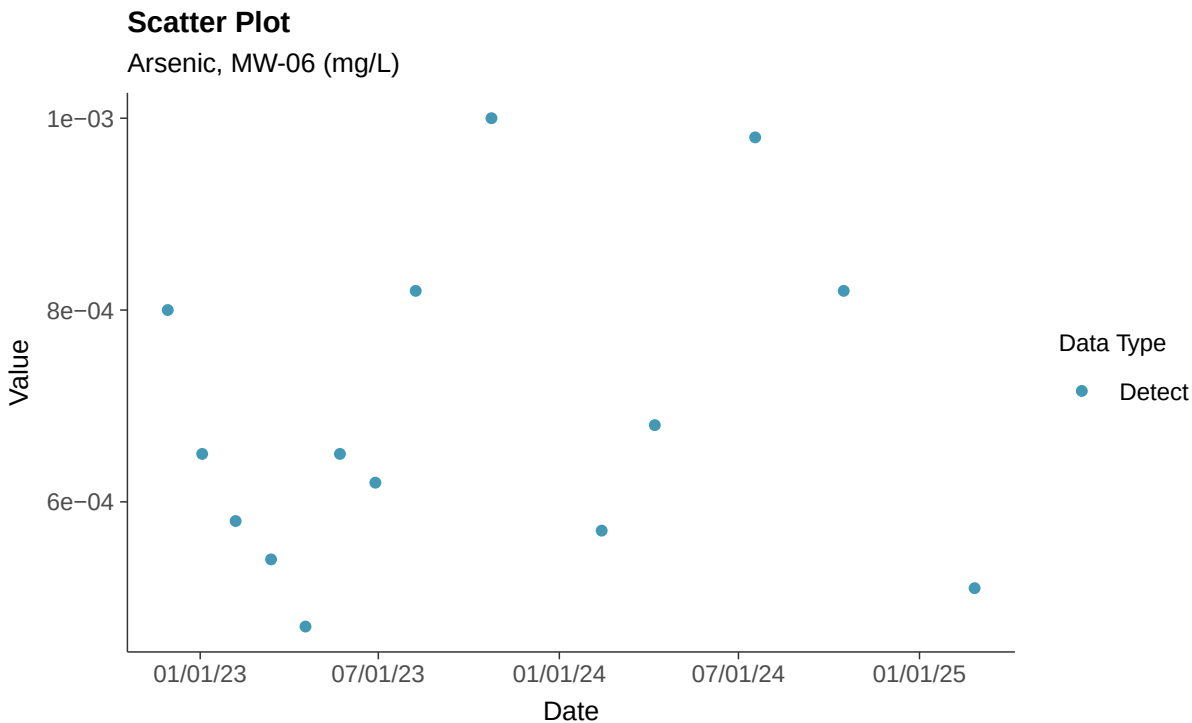


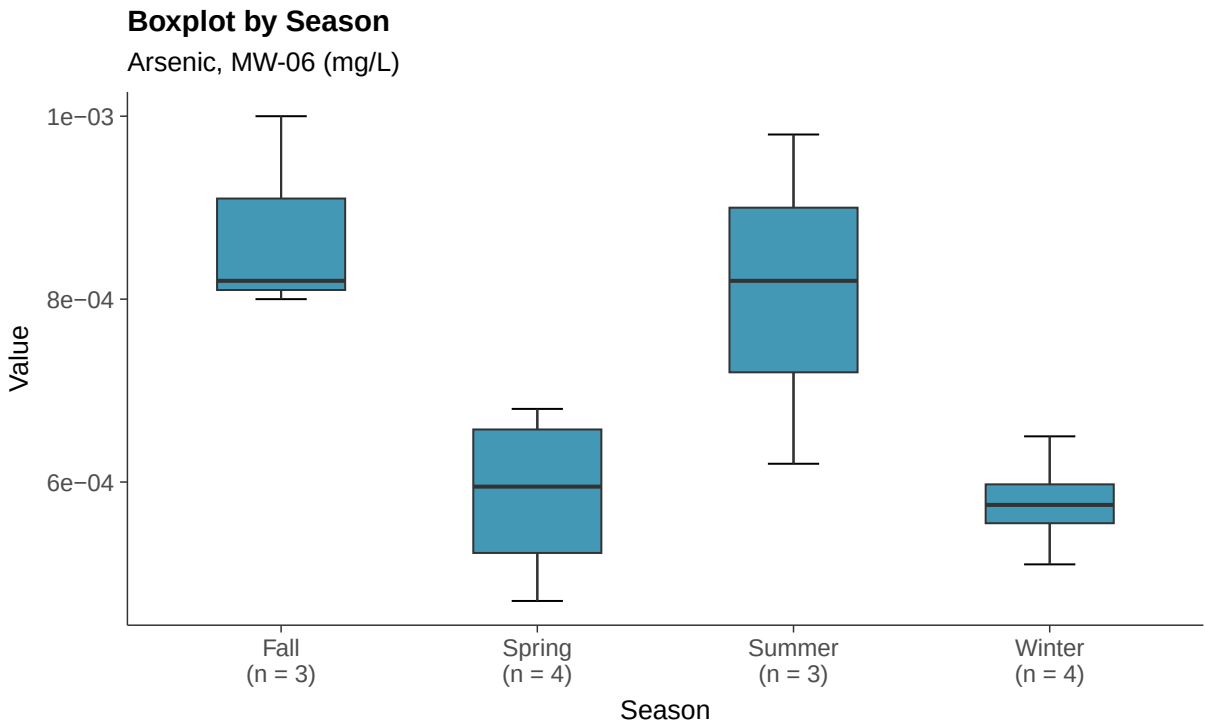
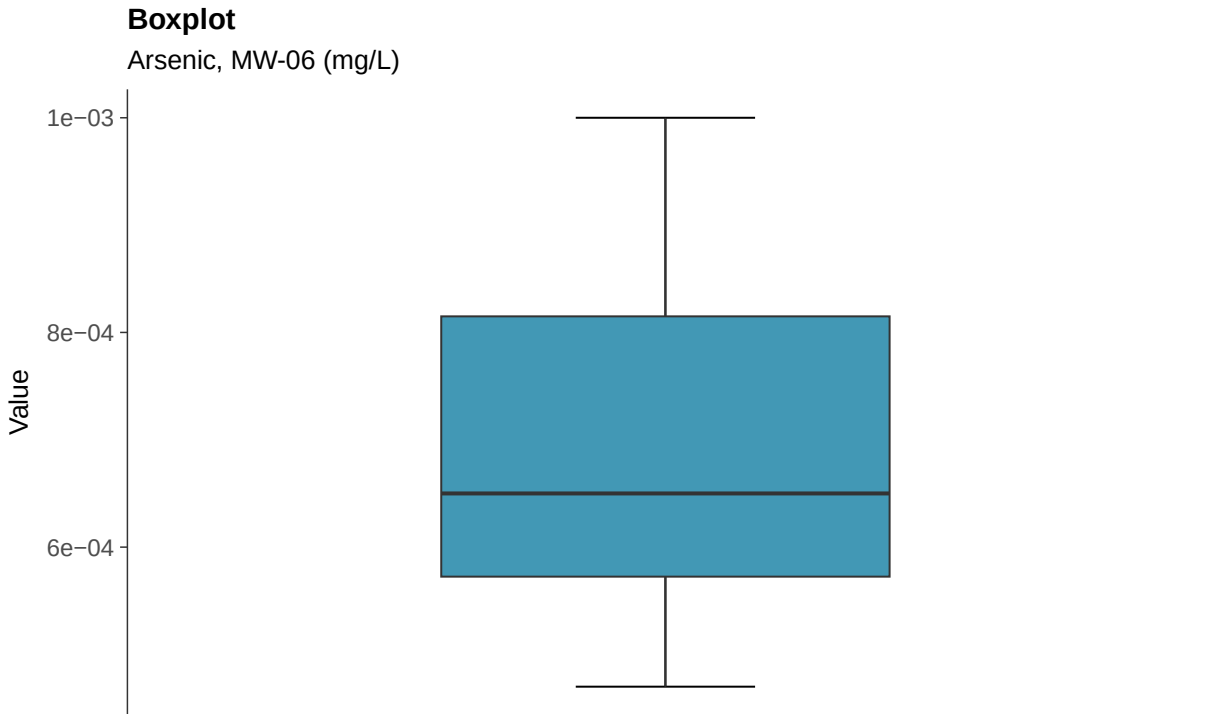


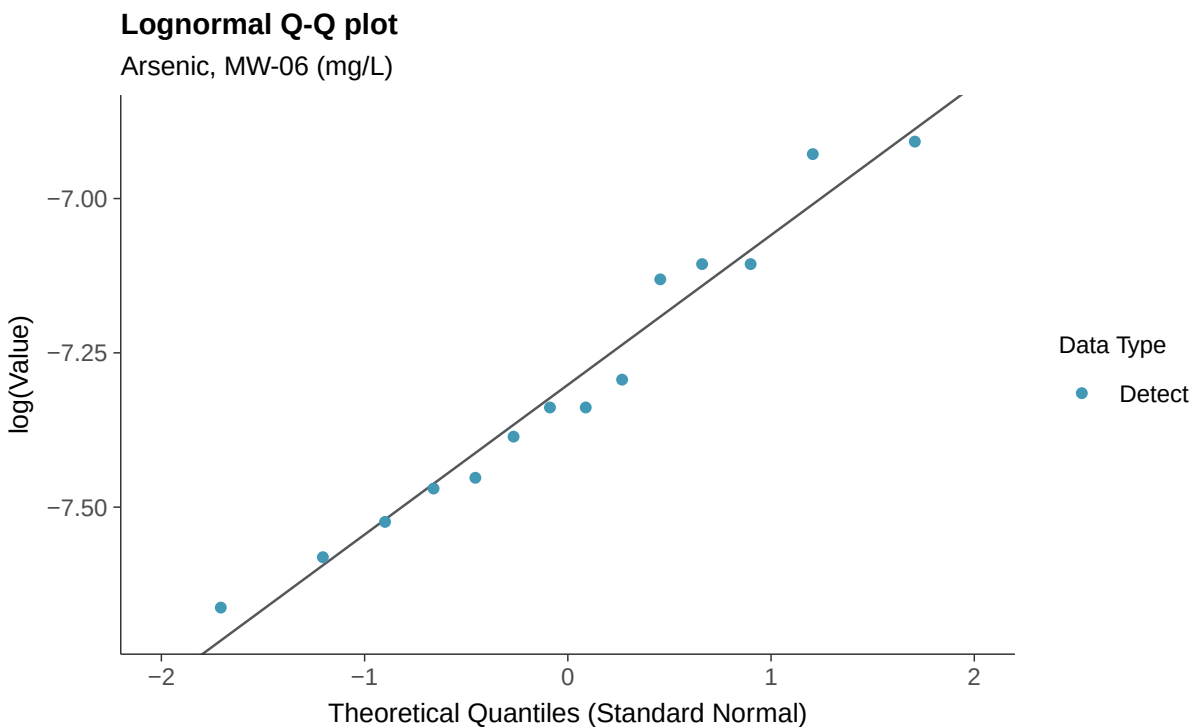
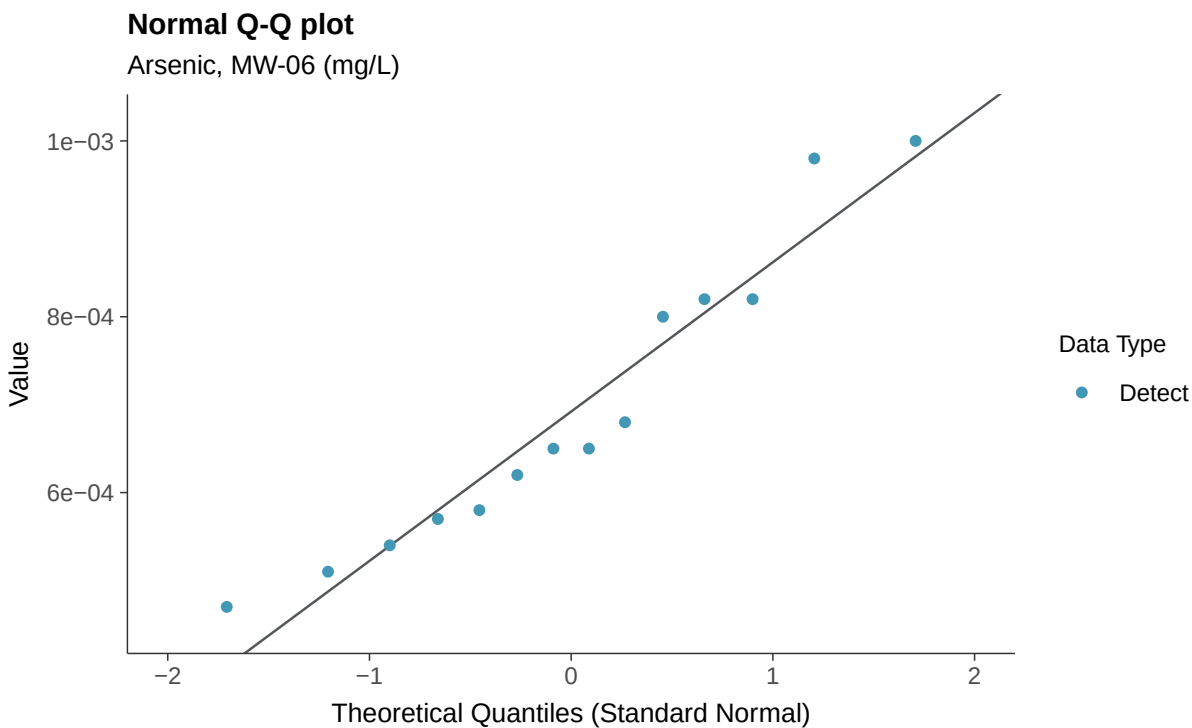


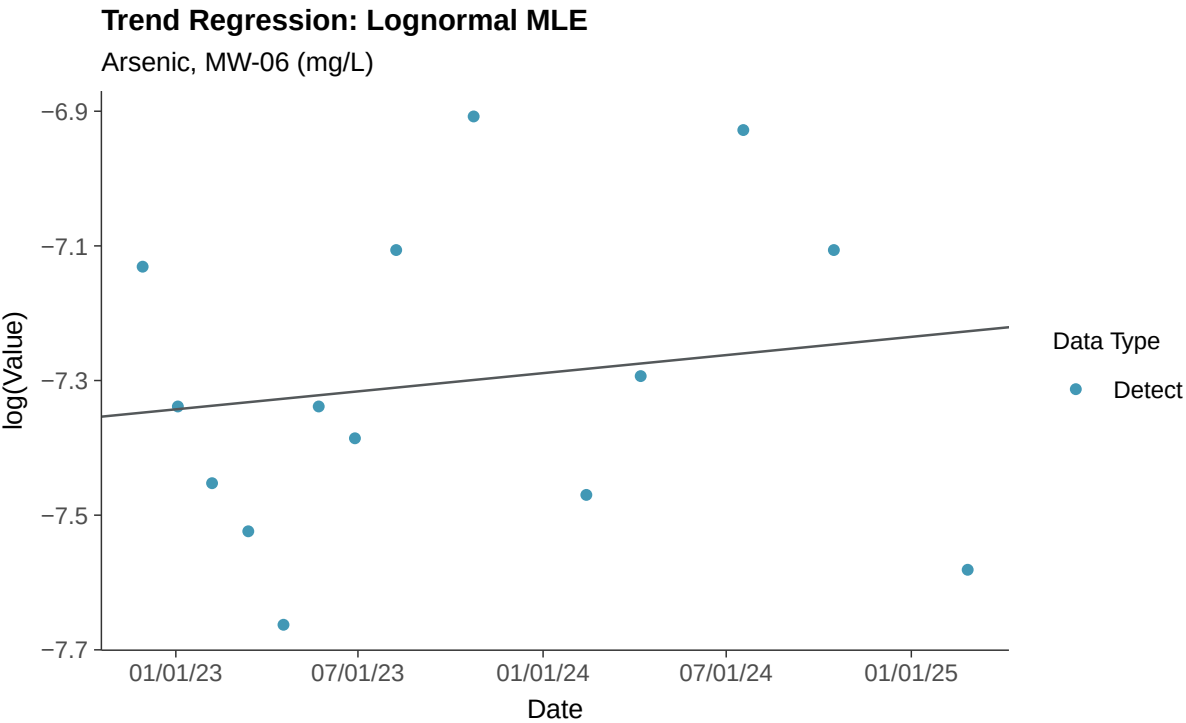
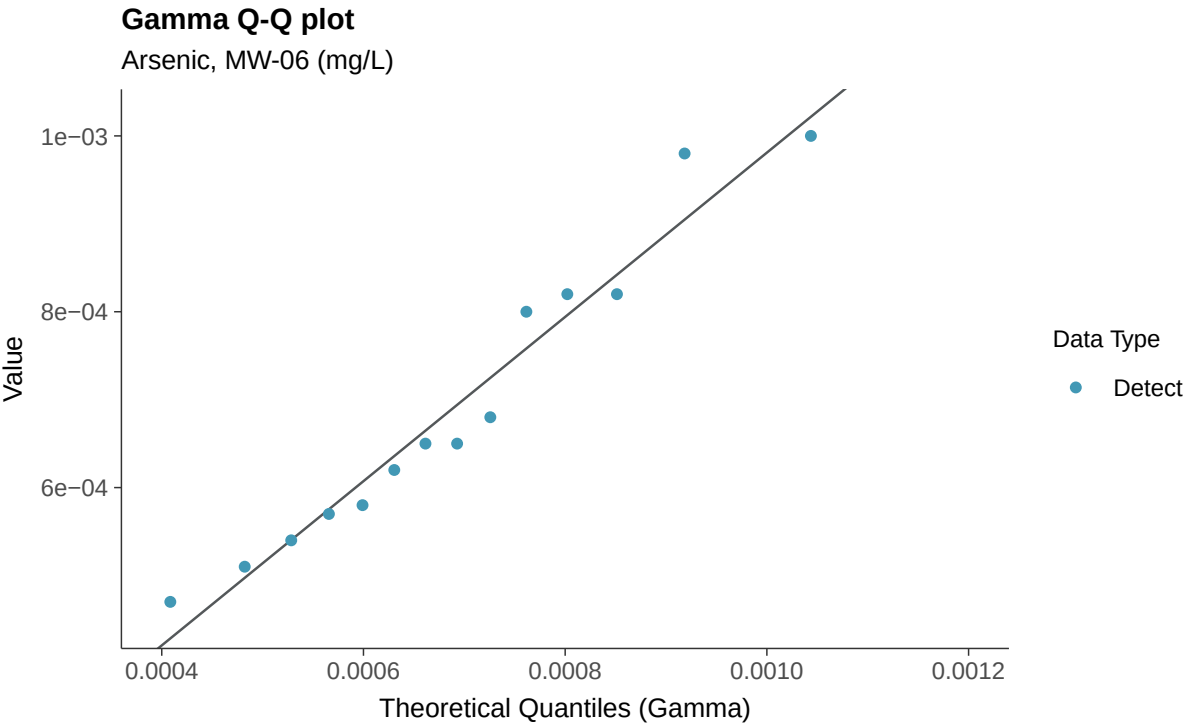
Appendix IV: Arsenic, MW-06

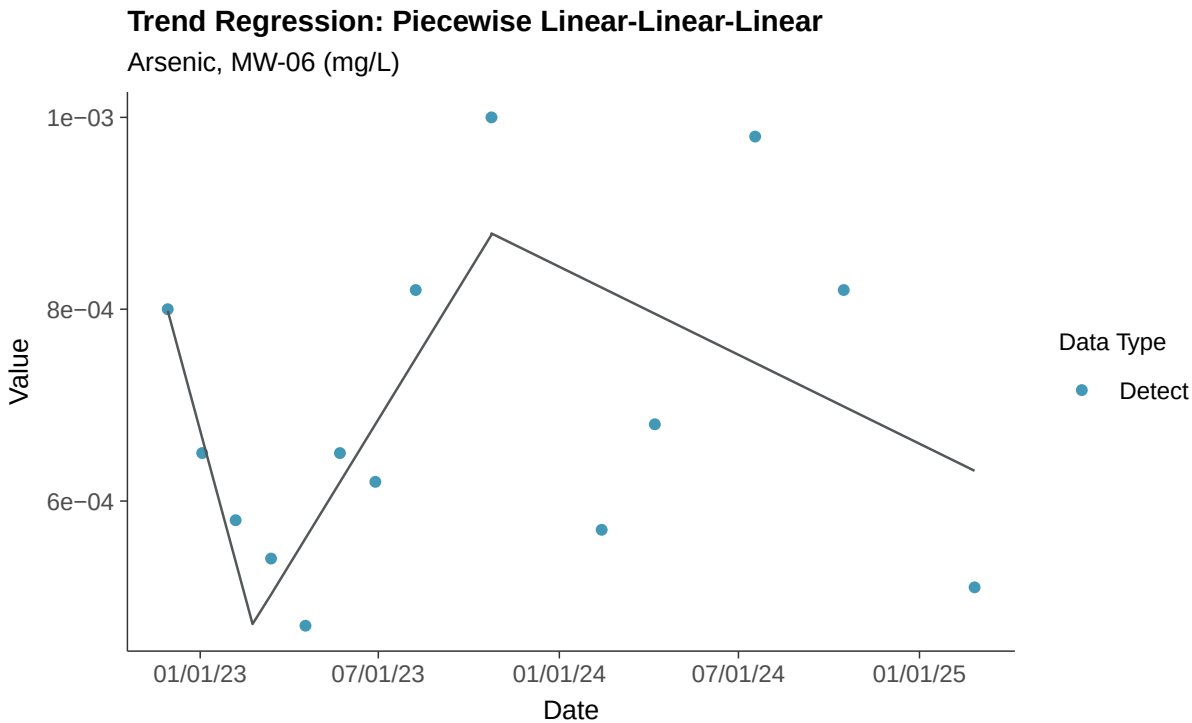
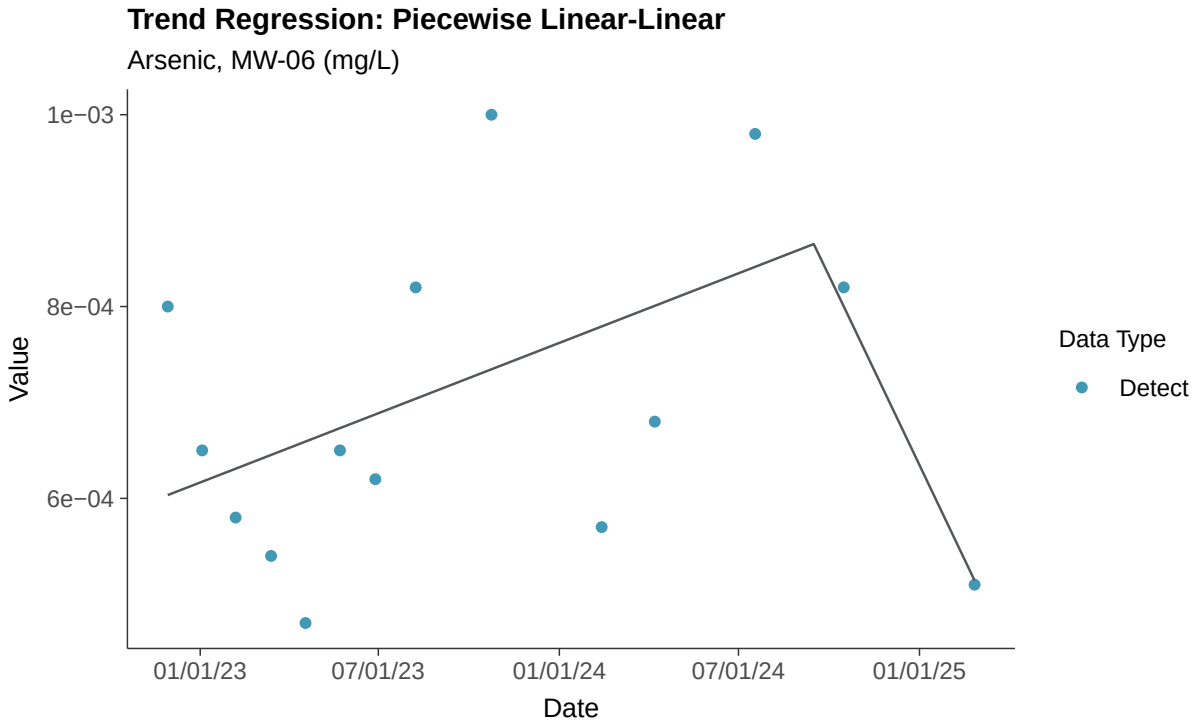
ID: 16_1_4_102







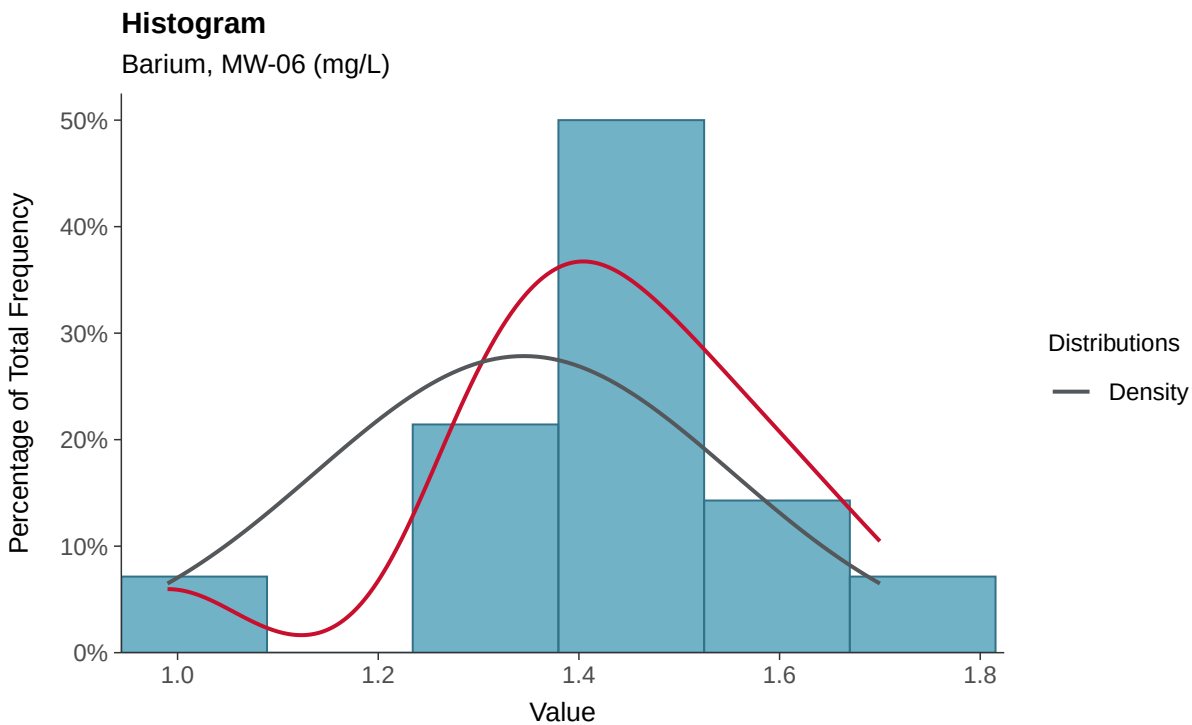
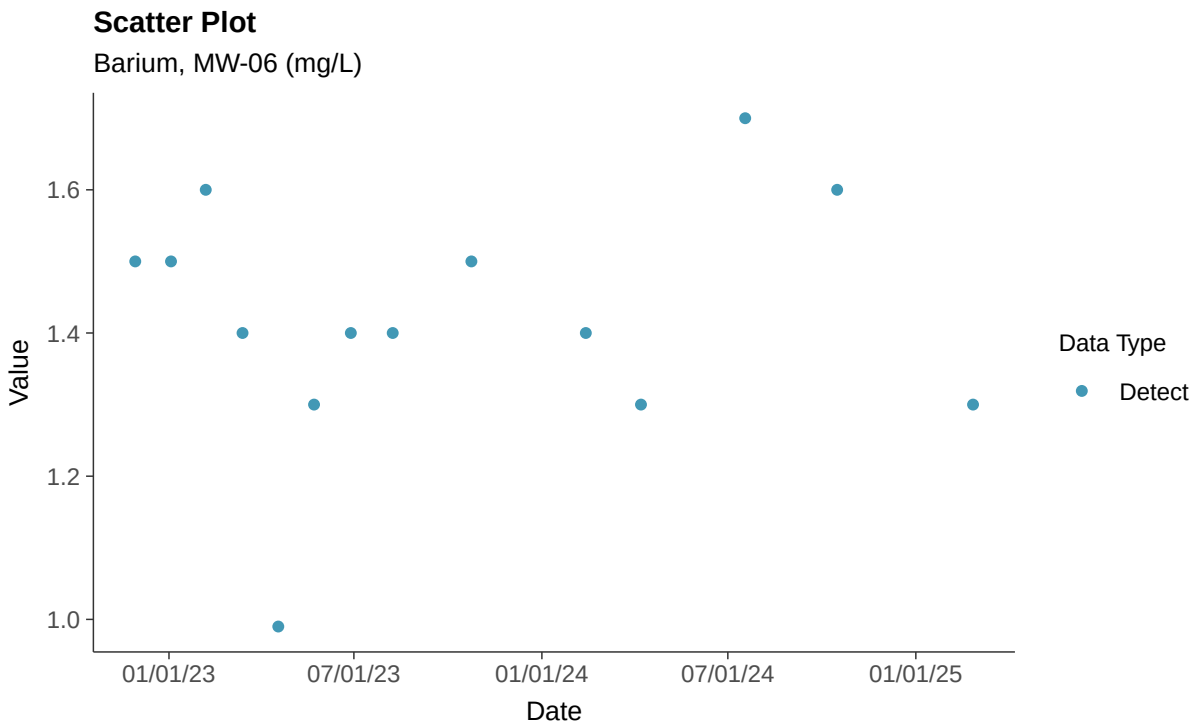


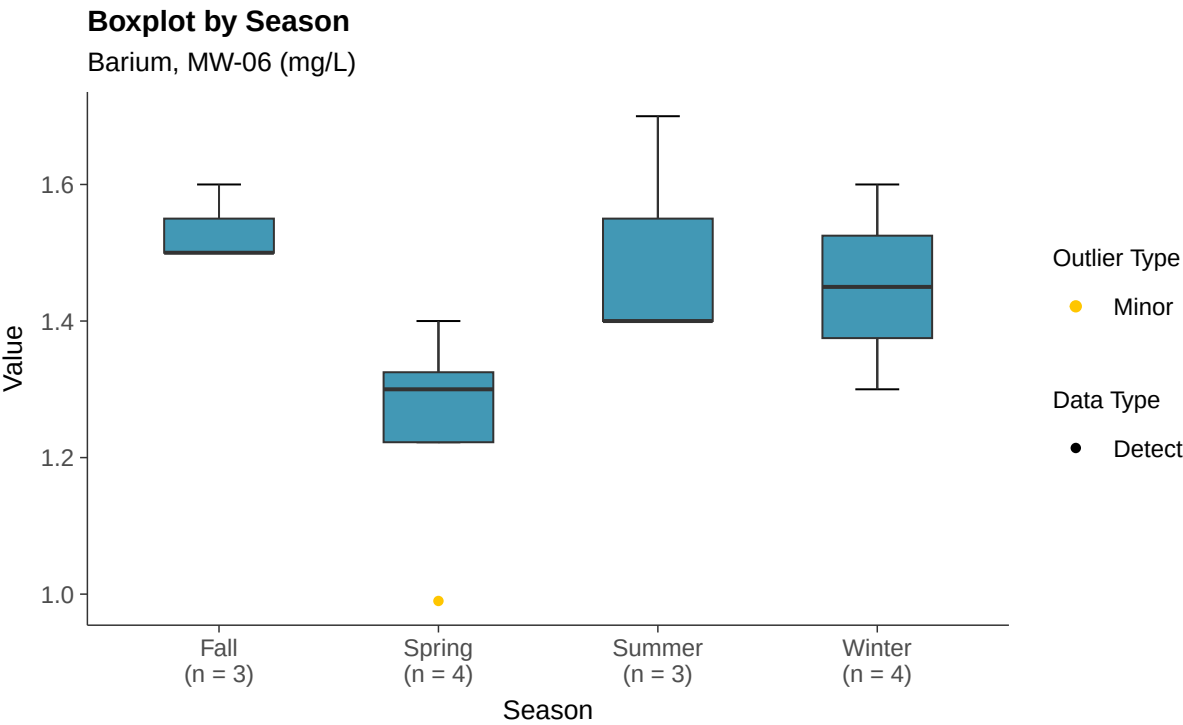
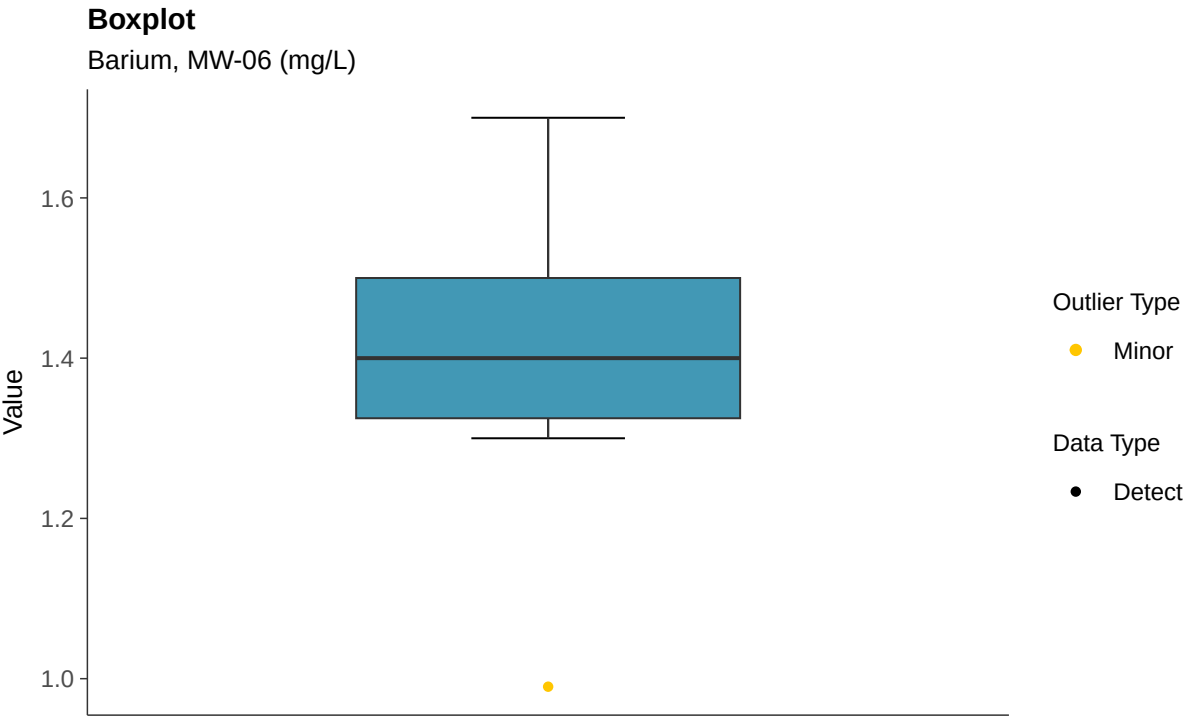


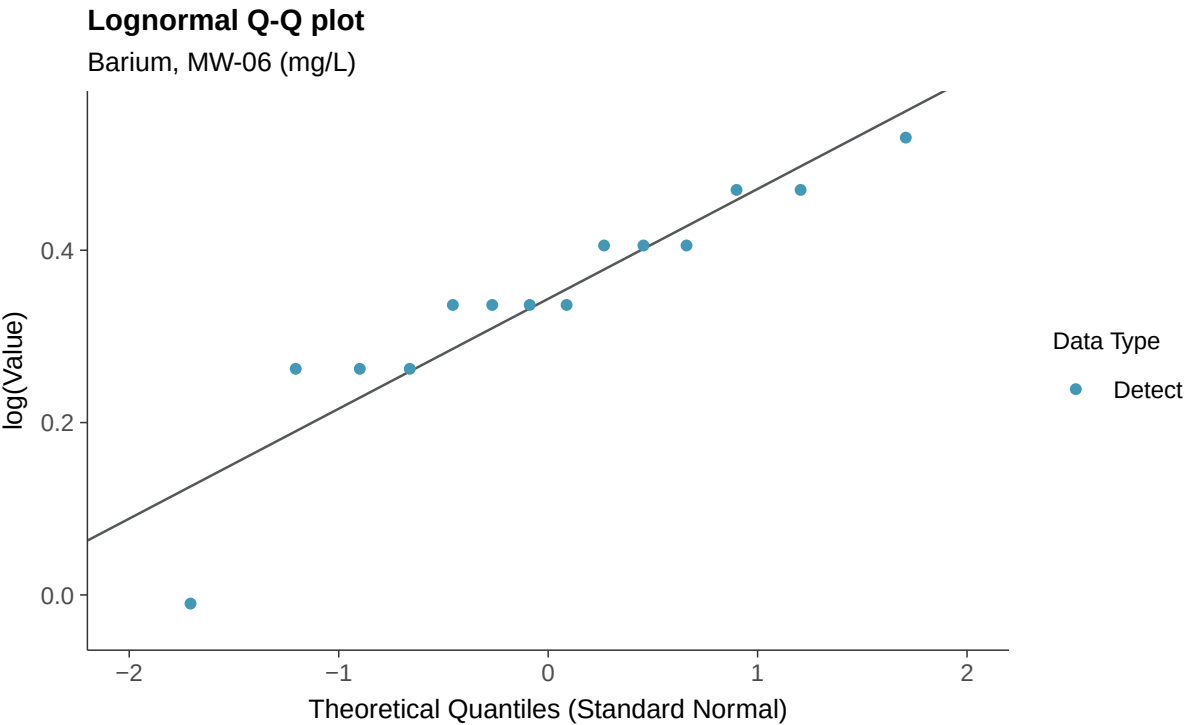
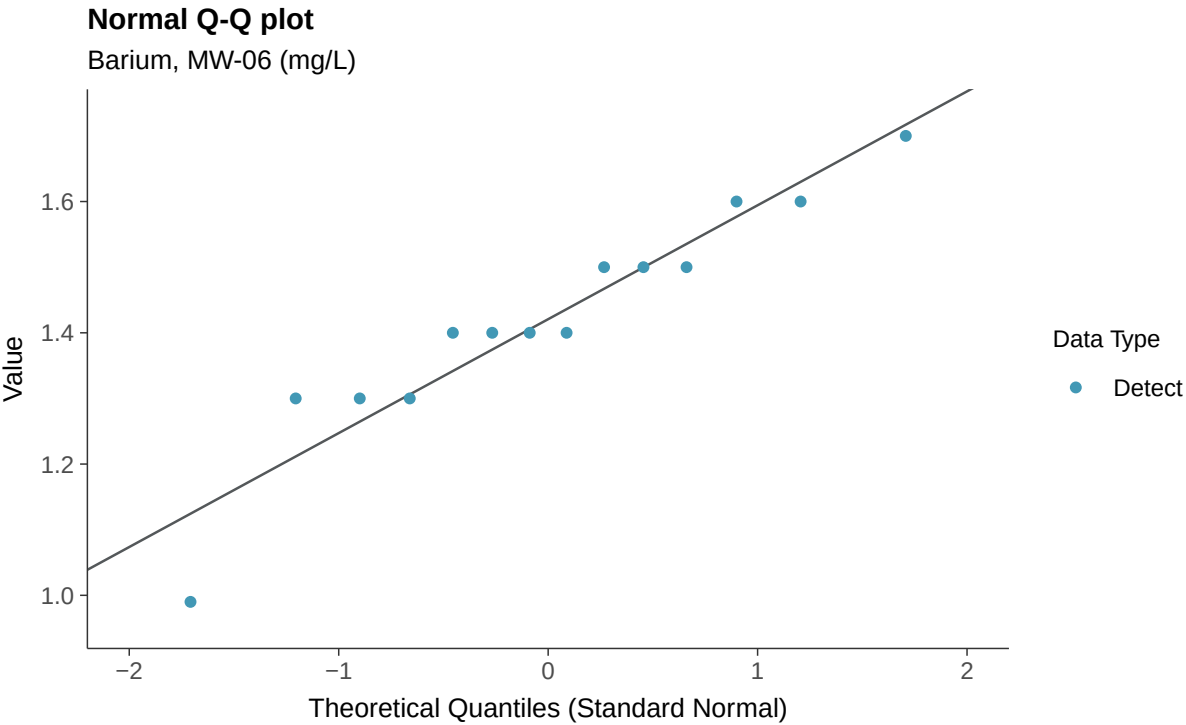


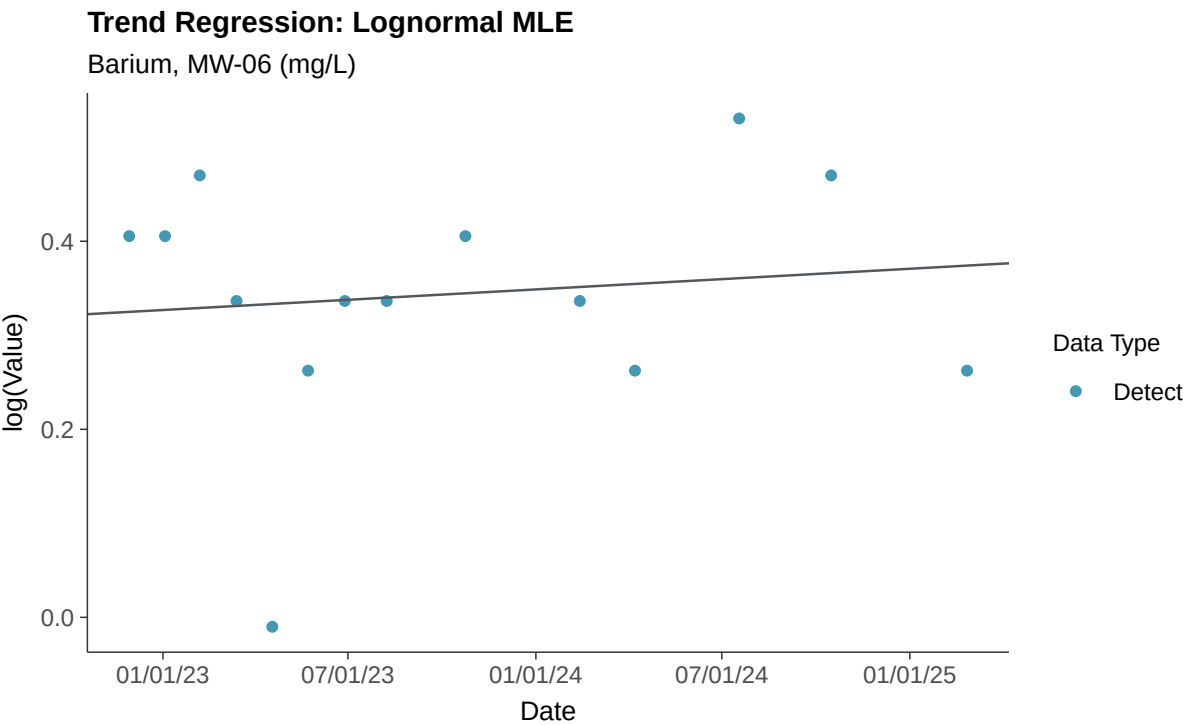
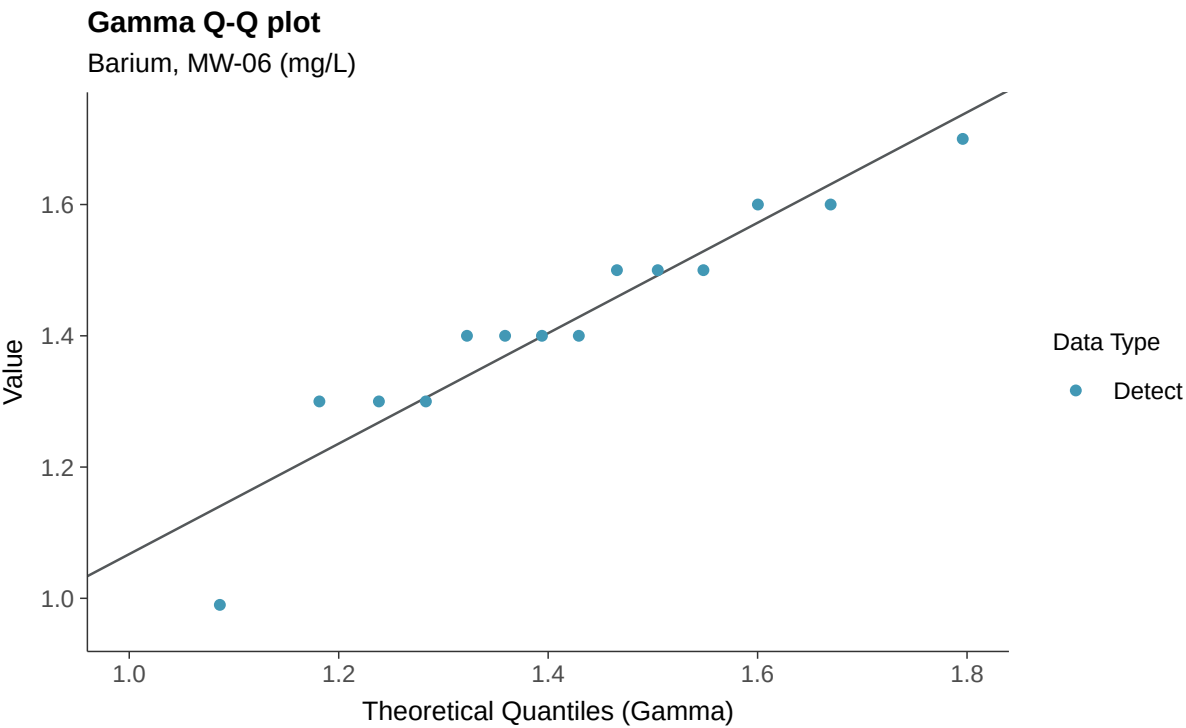
Appendix IV: Barium, MW-06

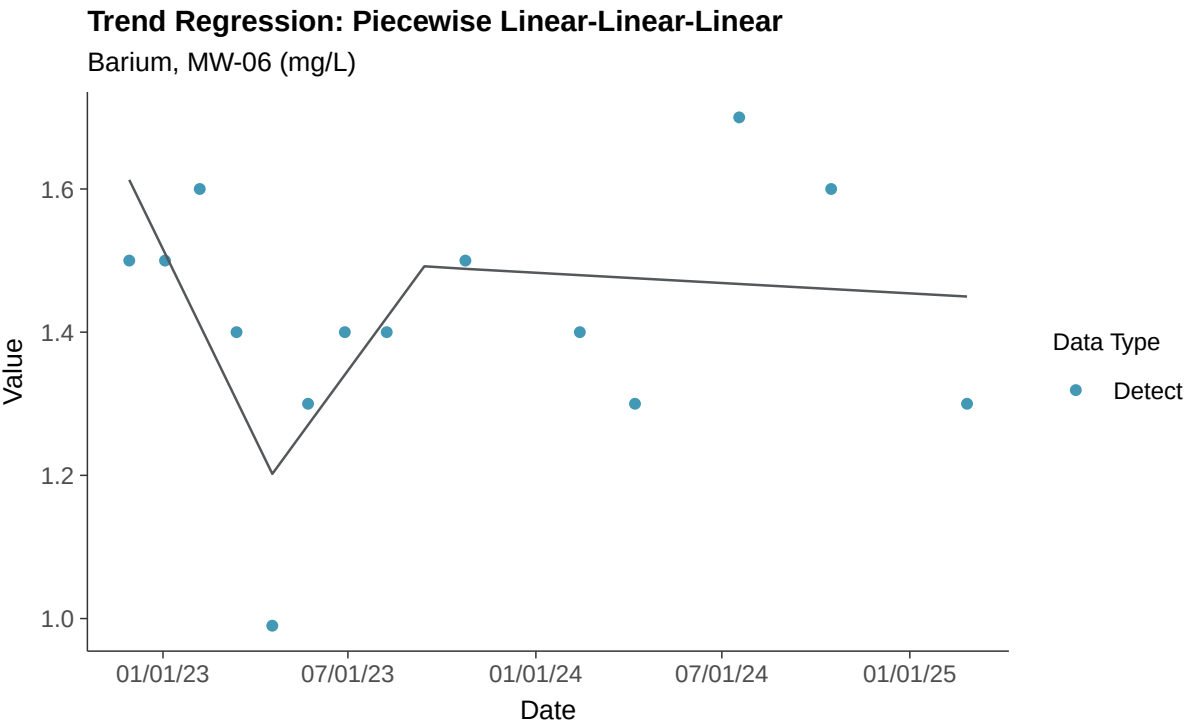
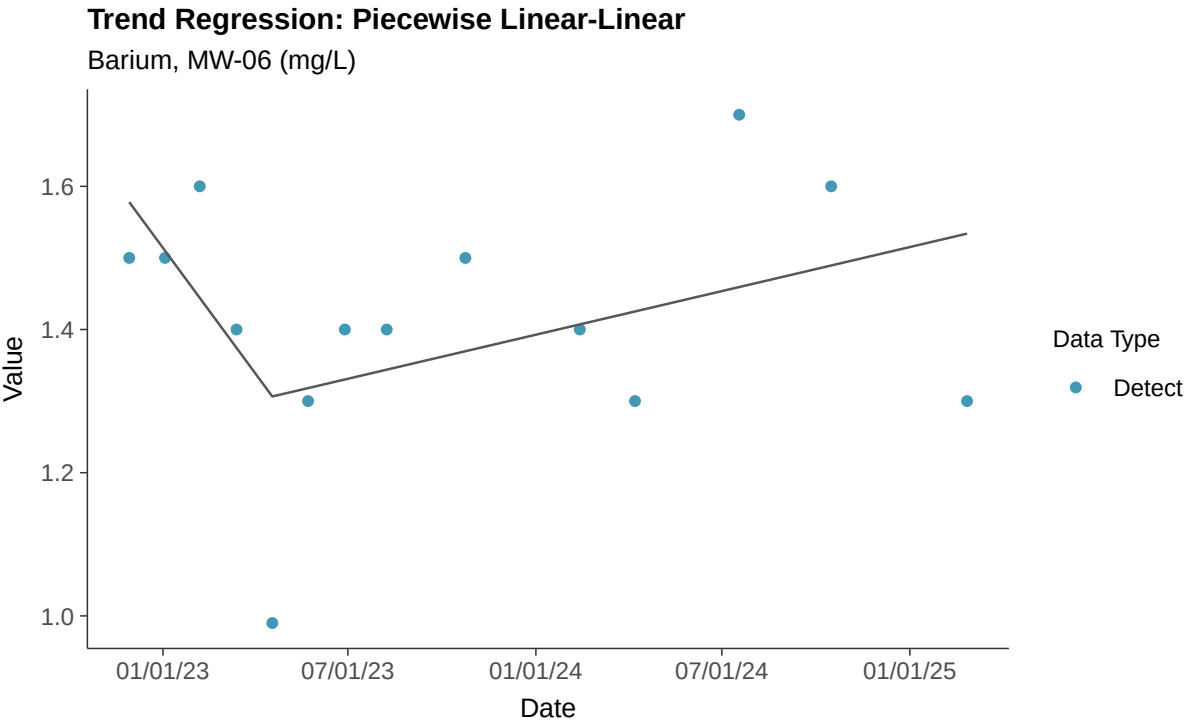
ID: 16_1_4_103







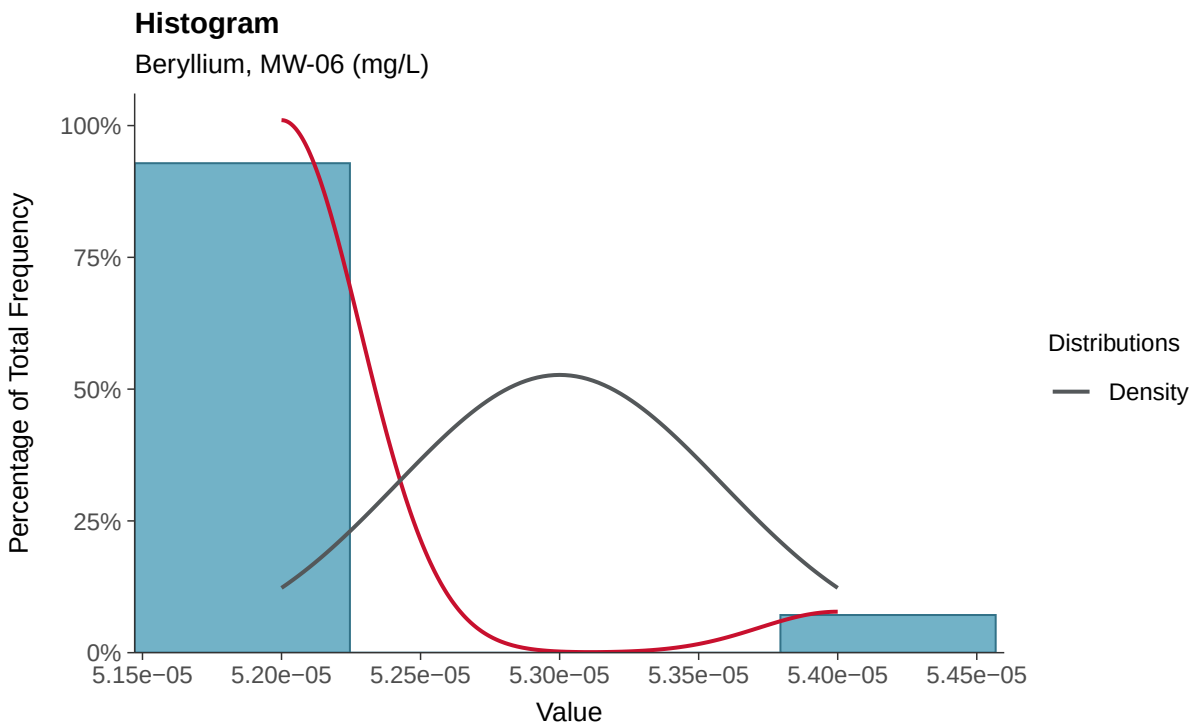
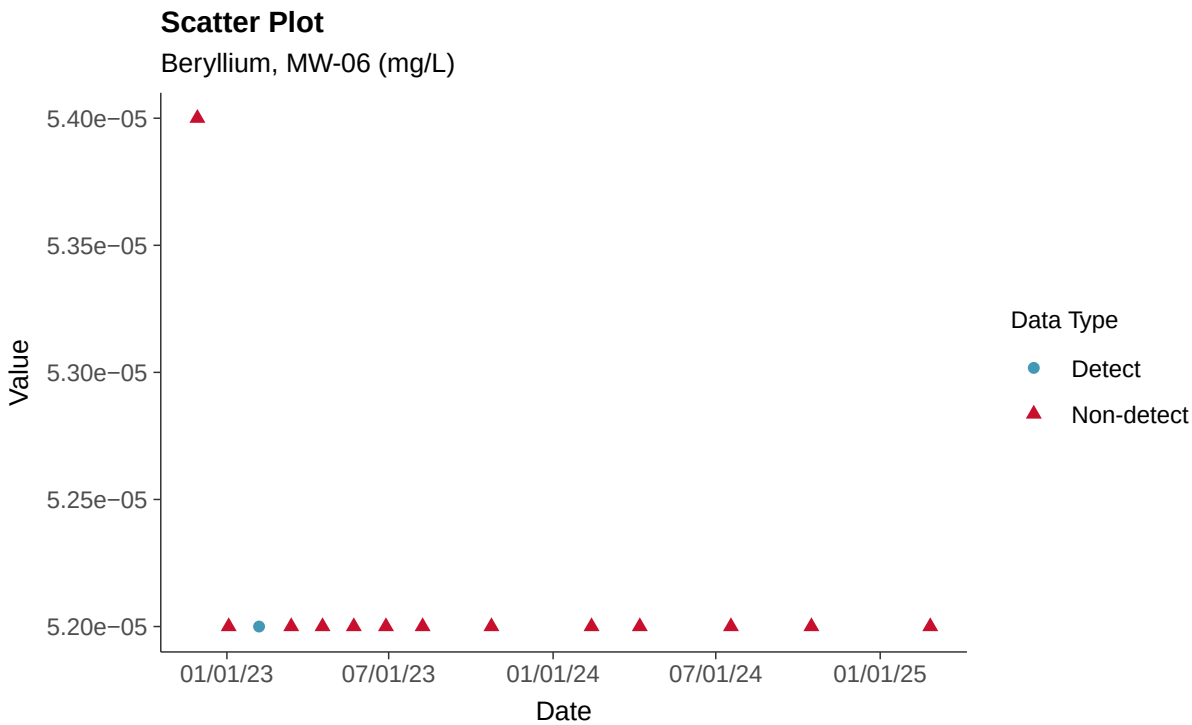


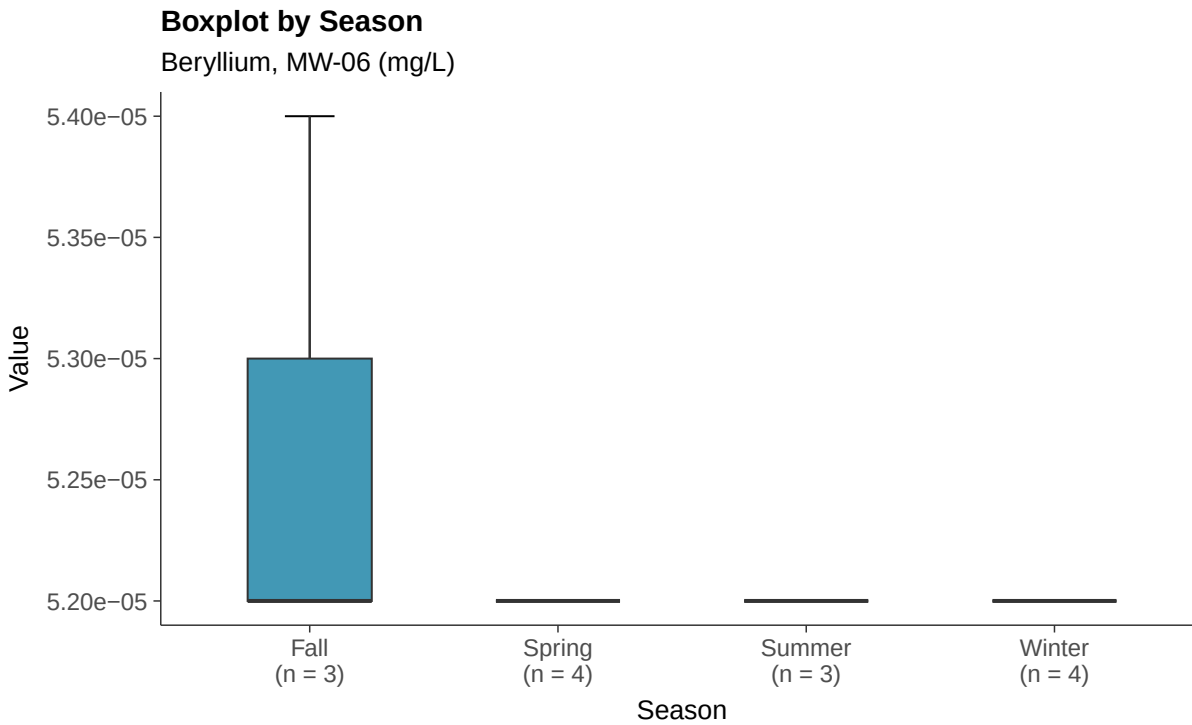
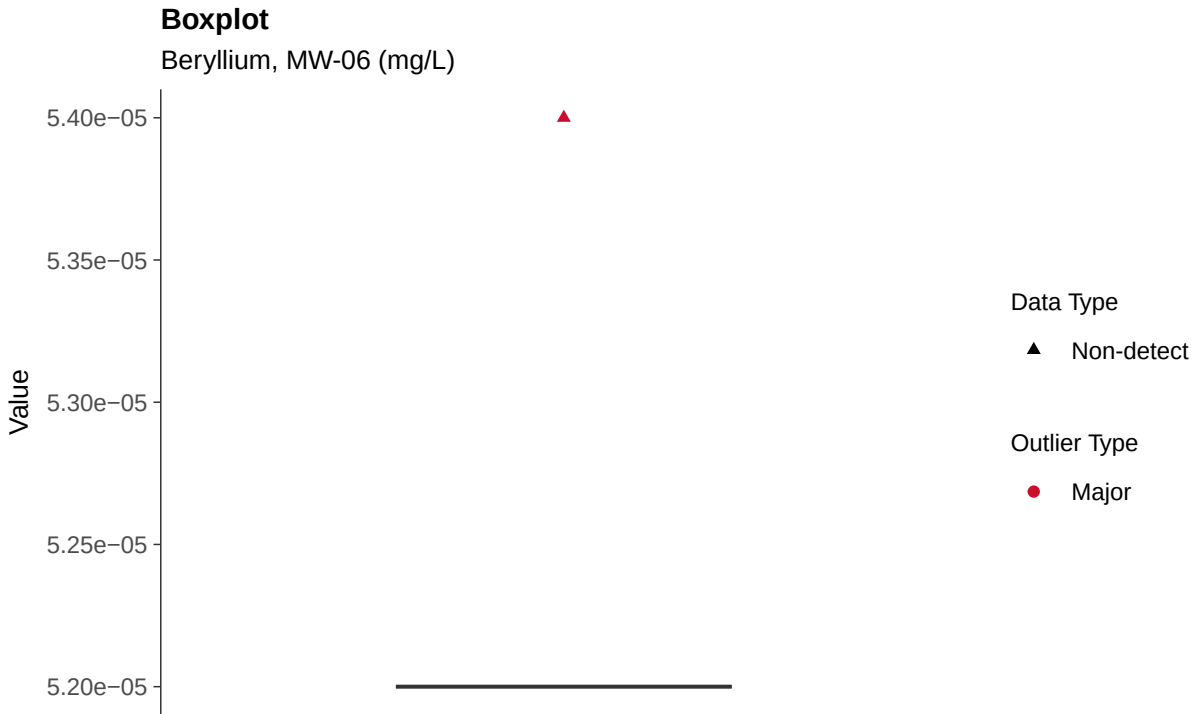


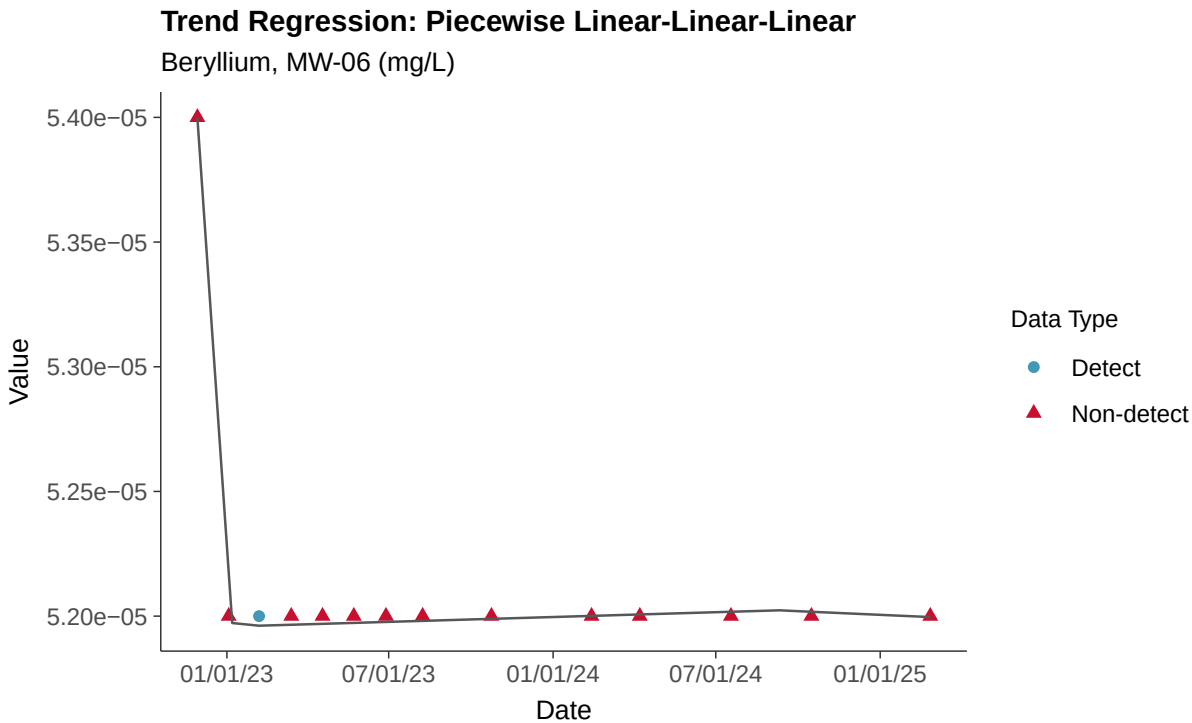
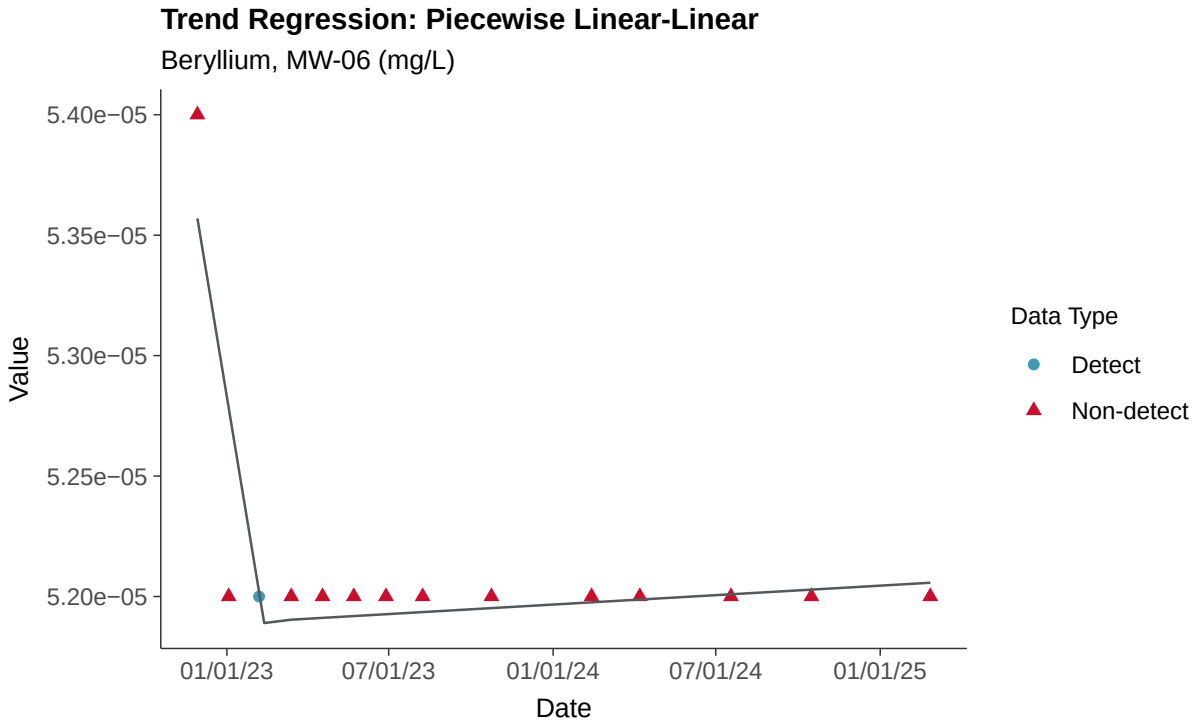


Appendix IV: Beryllium, MW-06

ID: 16_1_4_104



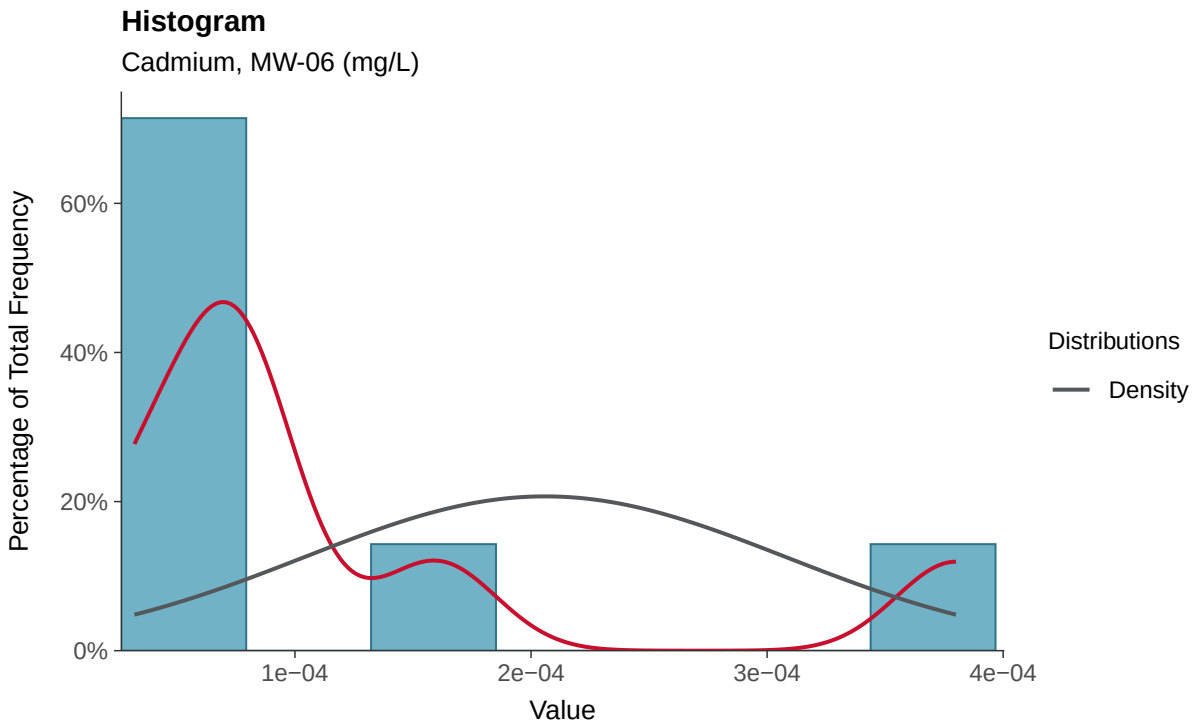
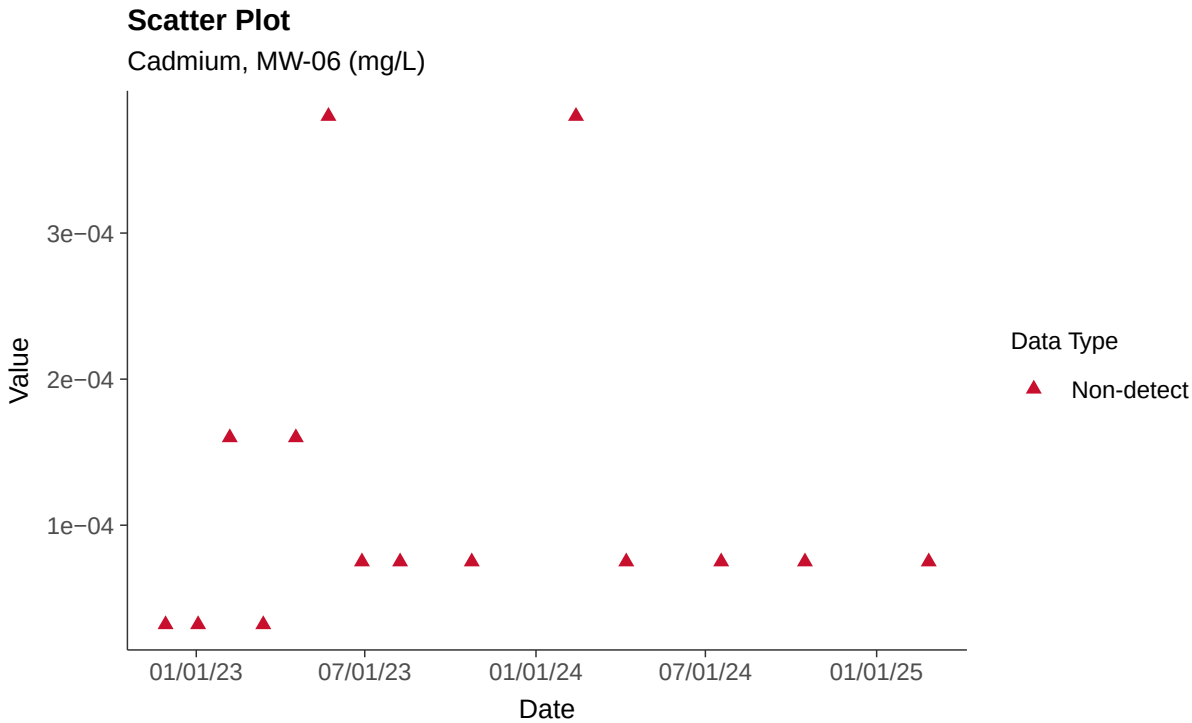


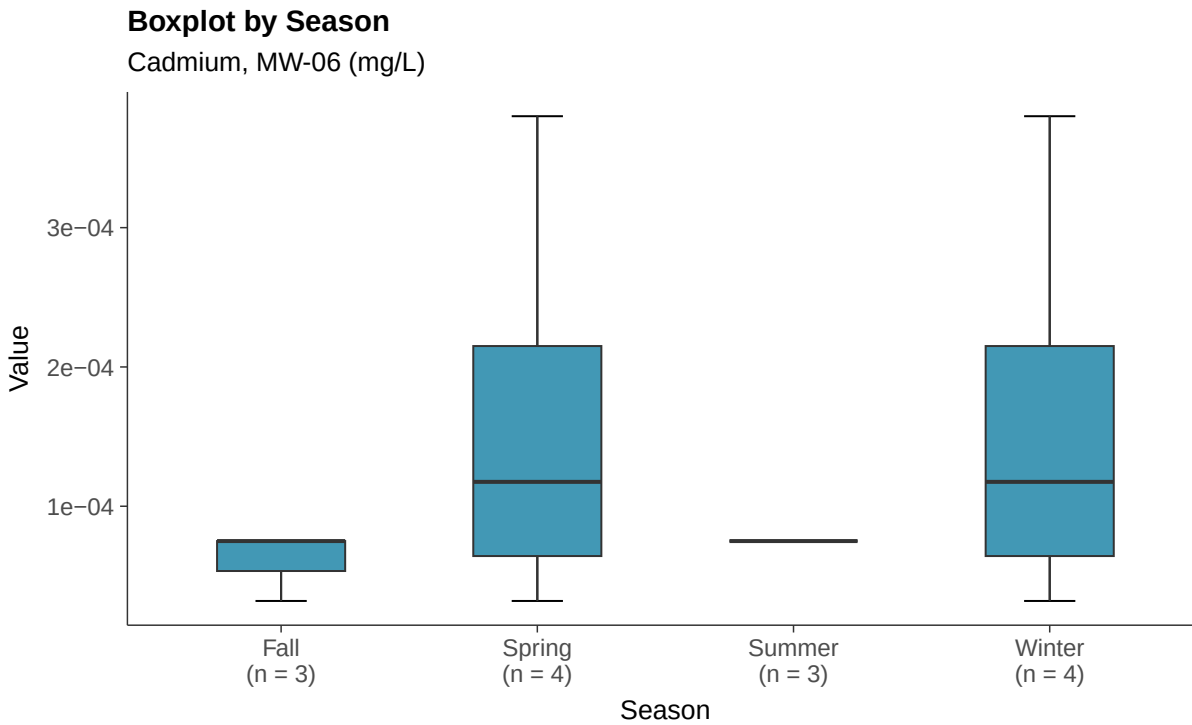
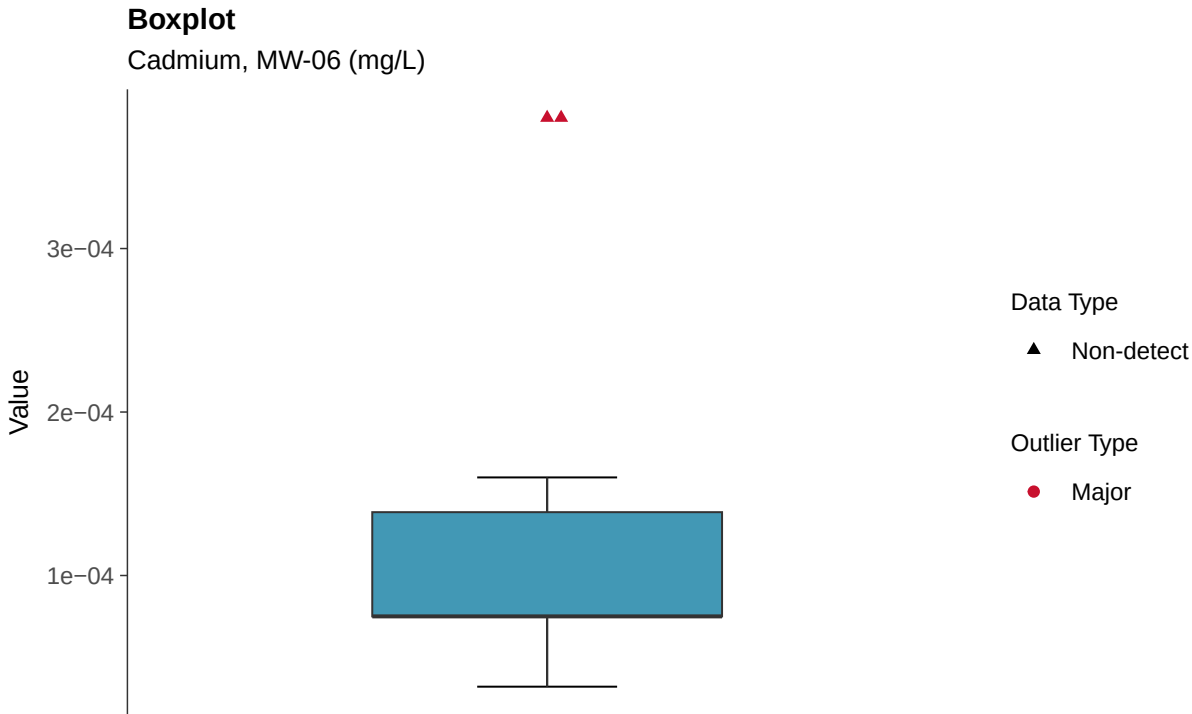


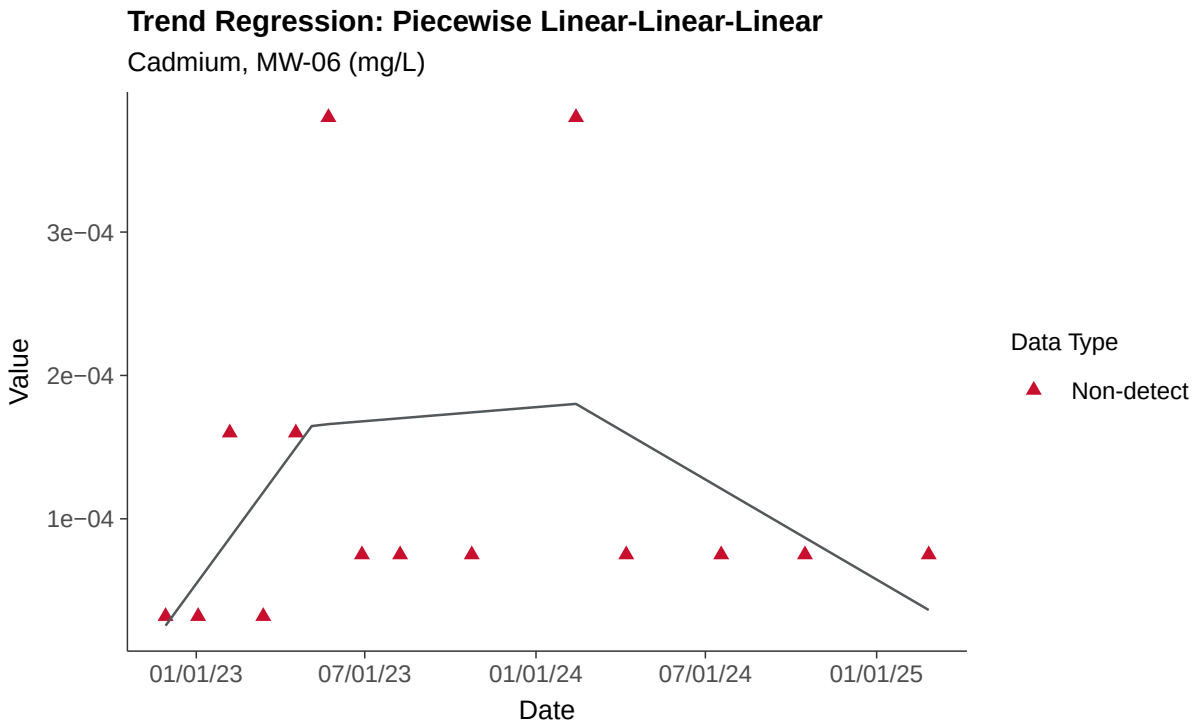
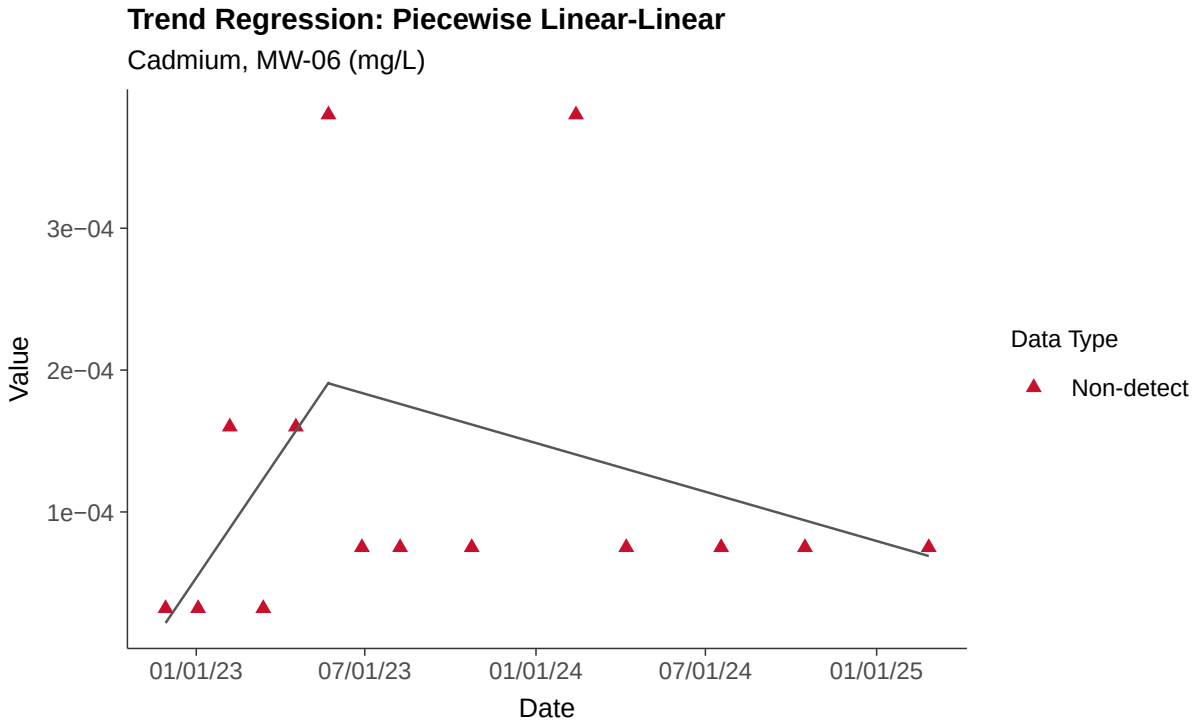


Appendix IV: Cadmium, MW-06

ID: 16_1_4_106



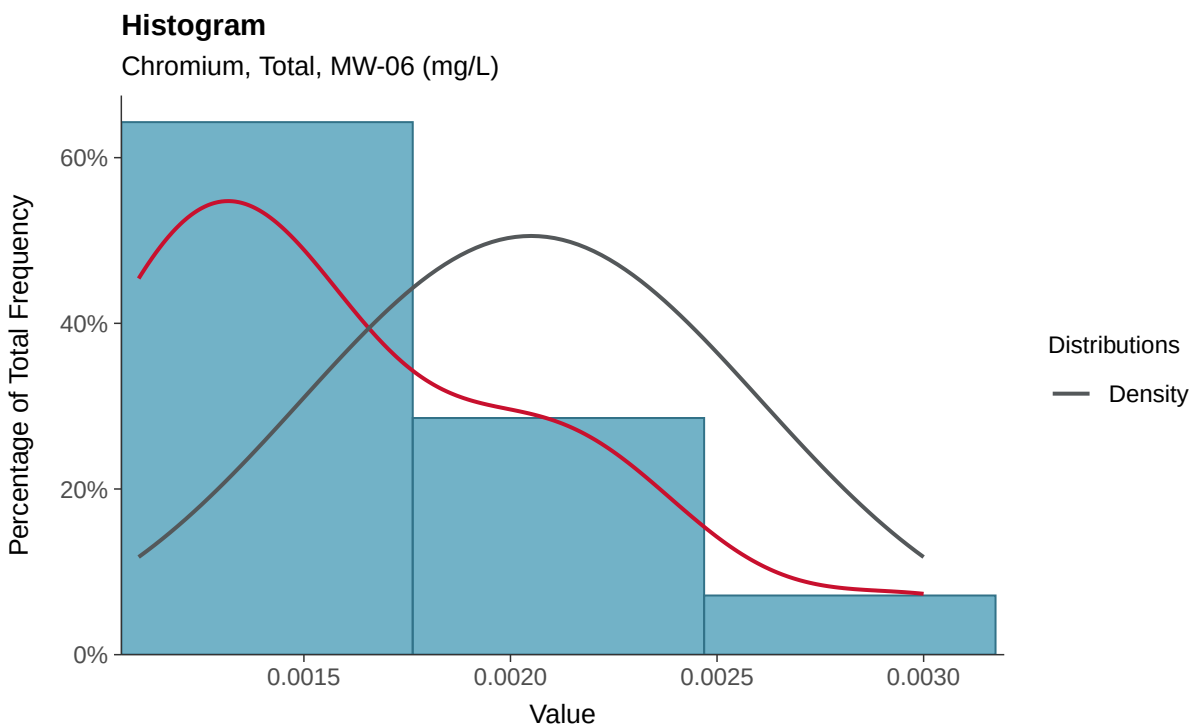
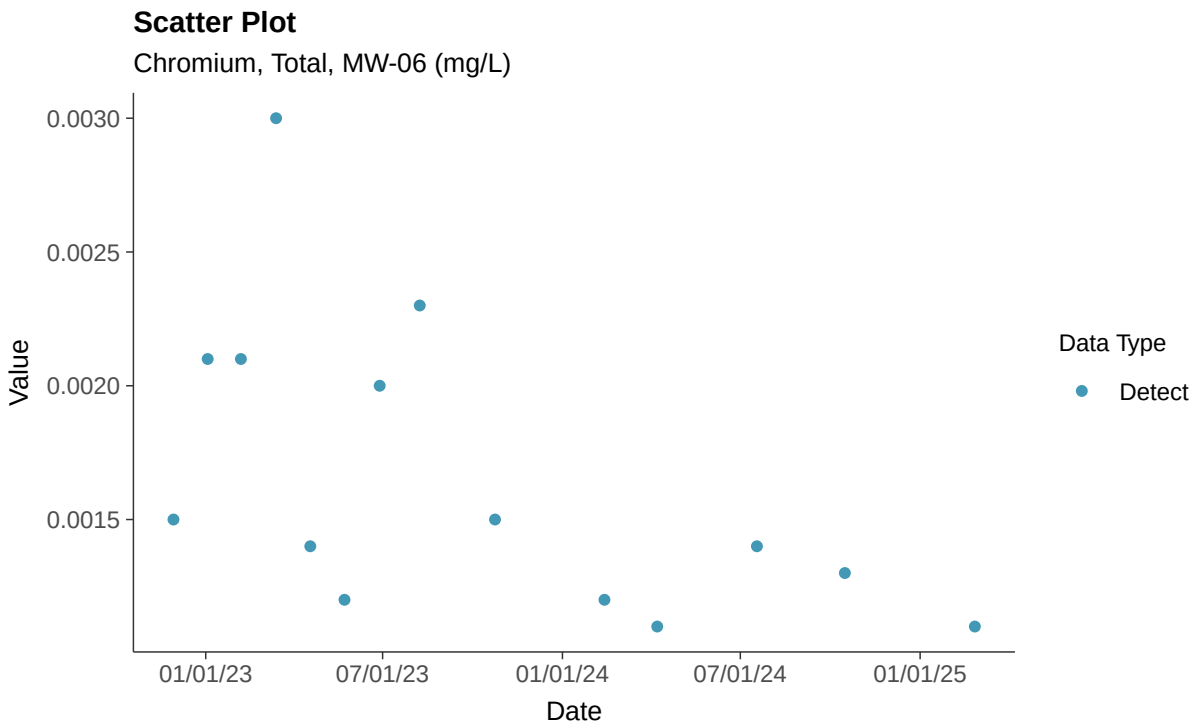


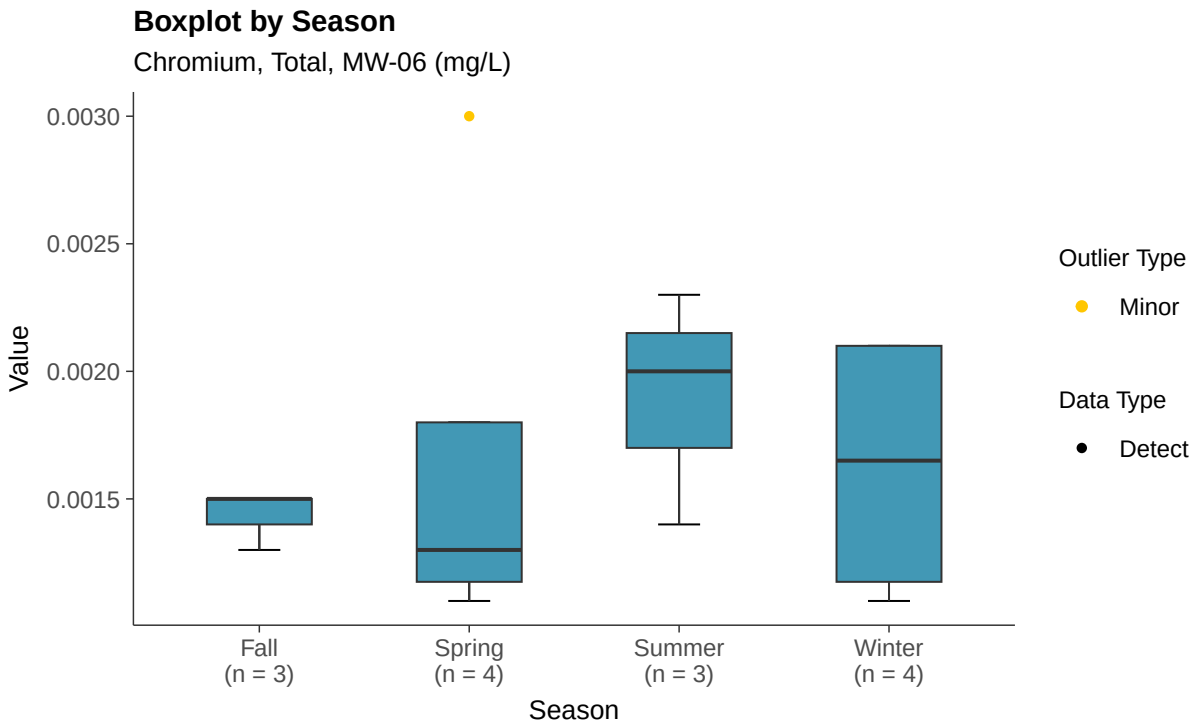
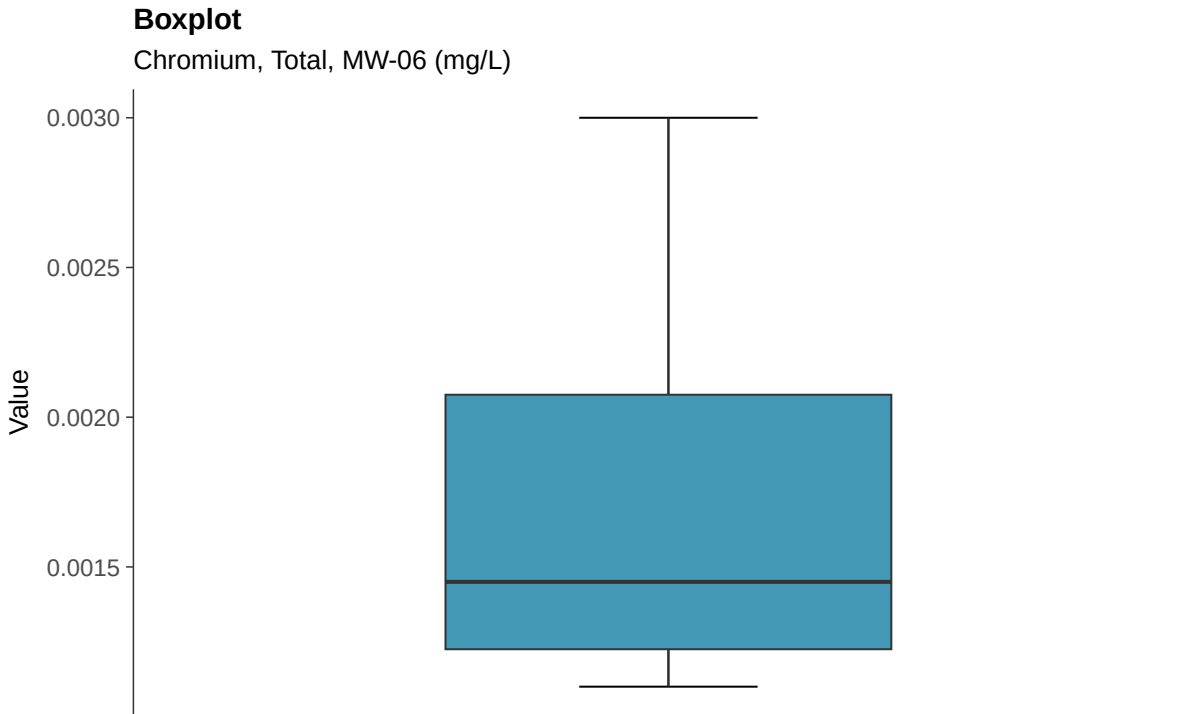




Appendix IV: Chromium, Total, MW-06

ID: 16_1_4_109

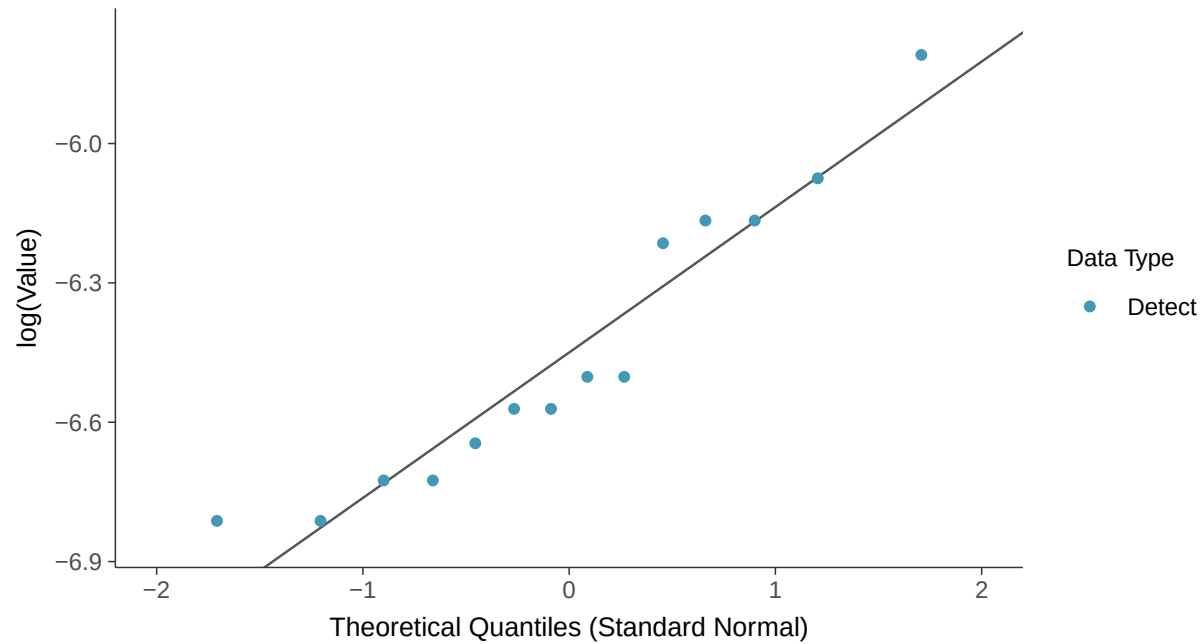






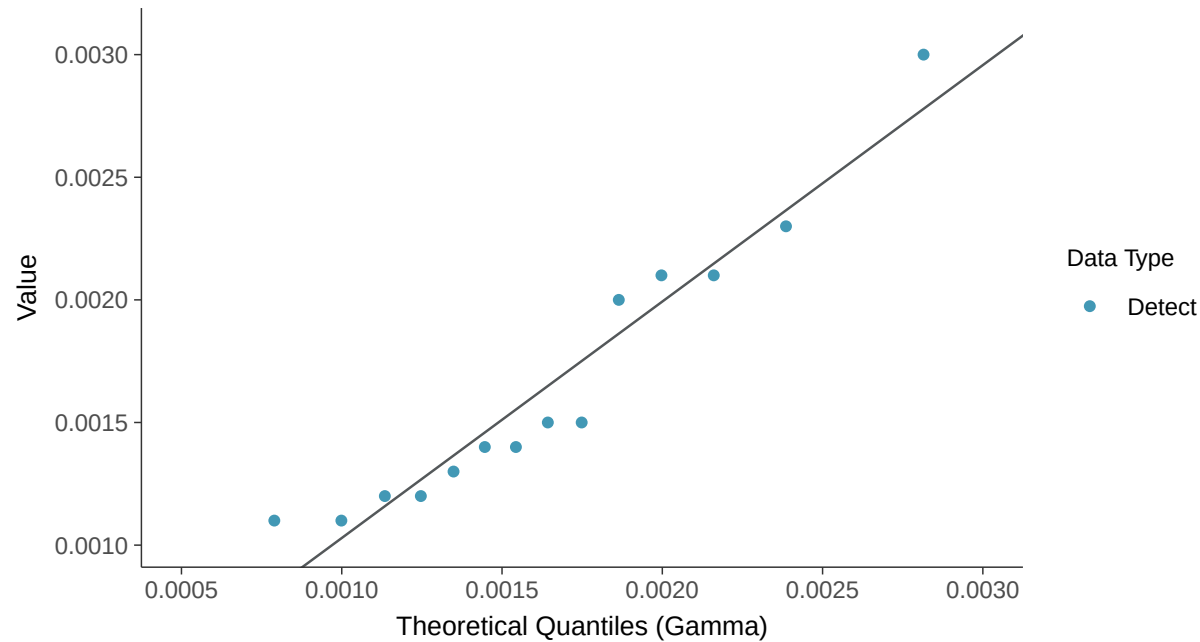
Lognormal Q-Q plot

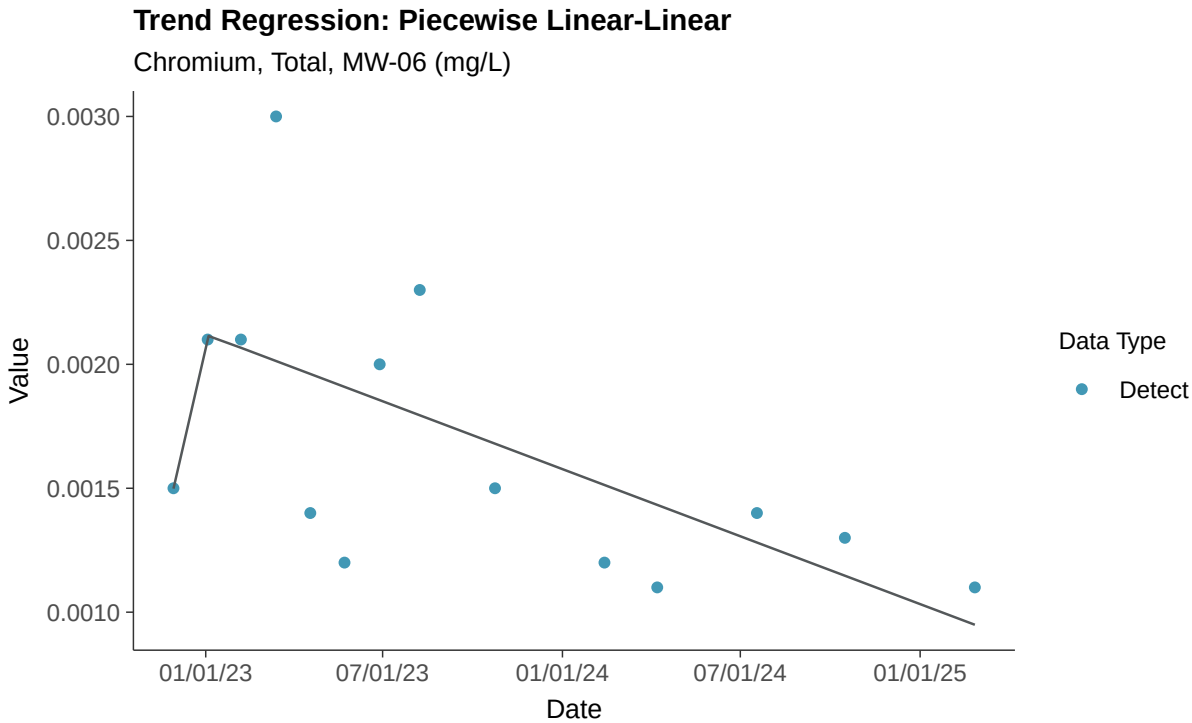
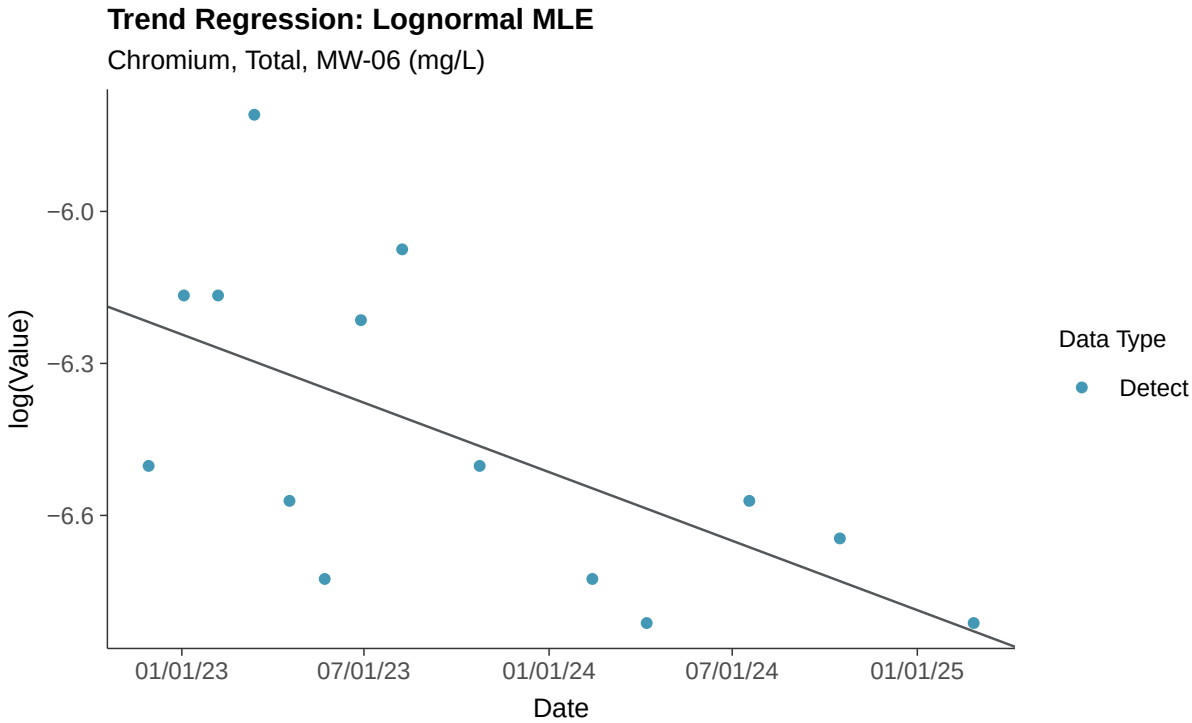
Chromium, Total, MW-06 (mg/L)

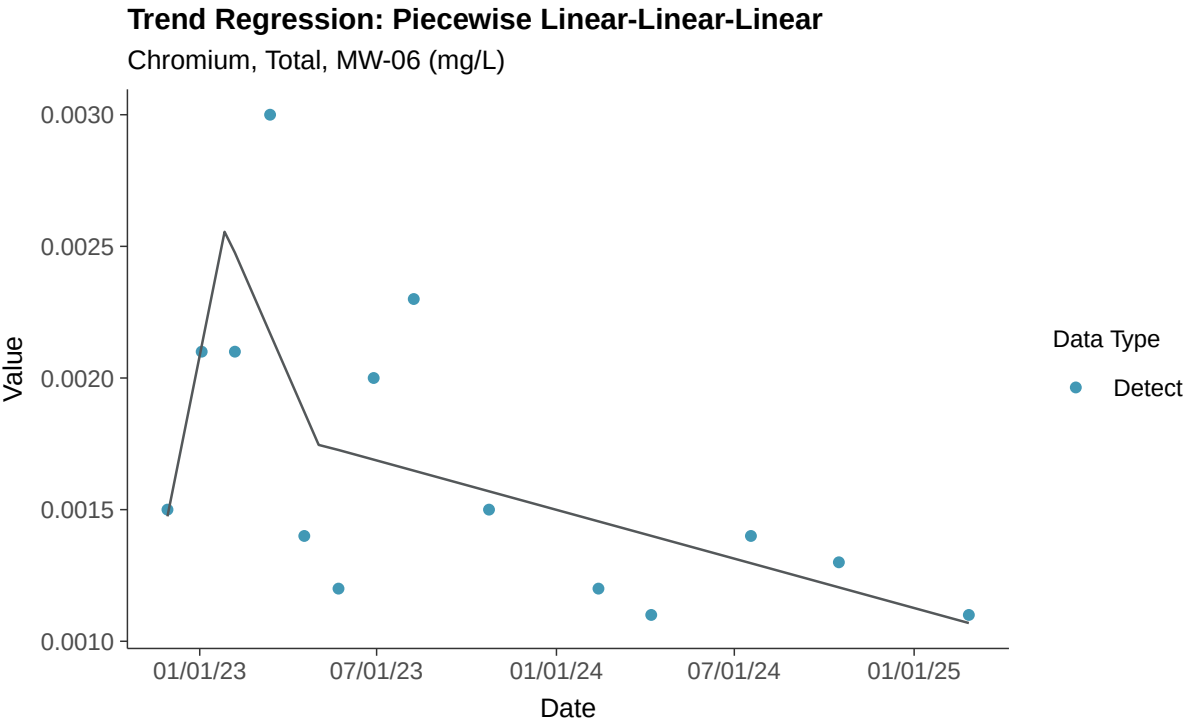


Gamma Q-Q plot

Chromium, Total, MW-06 (mg/L)



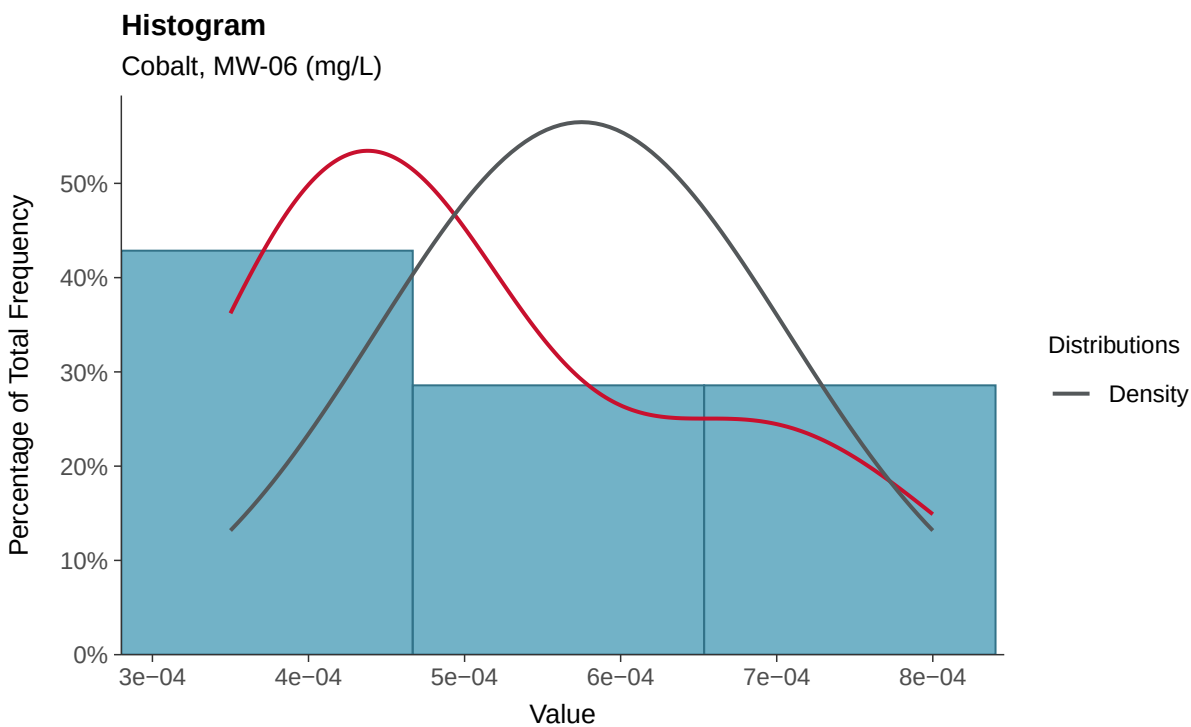
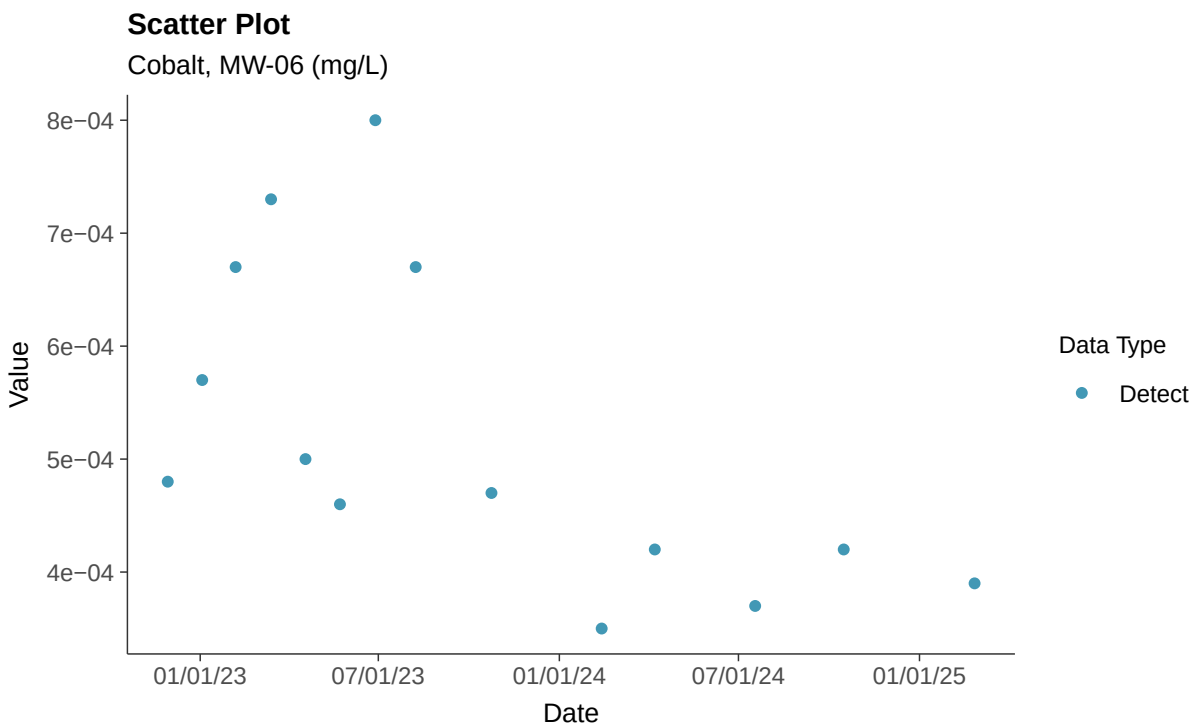


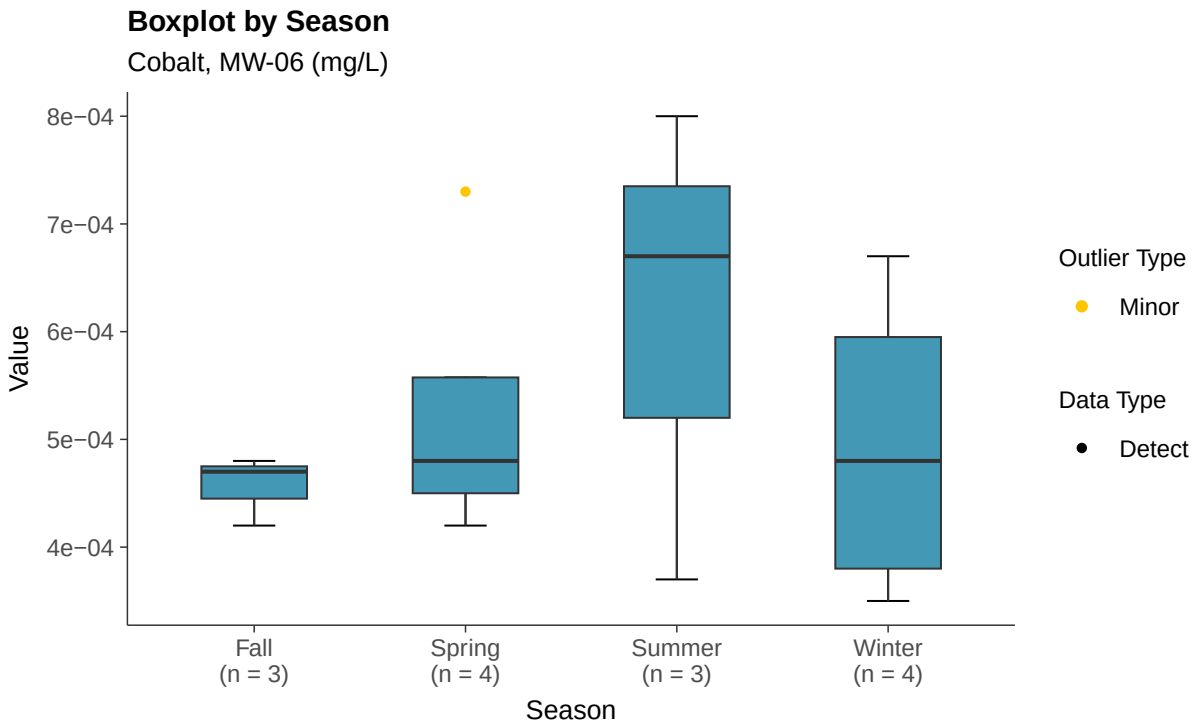
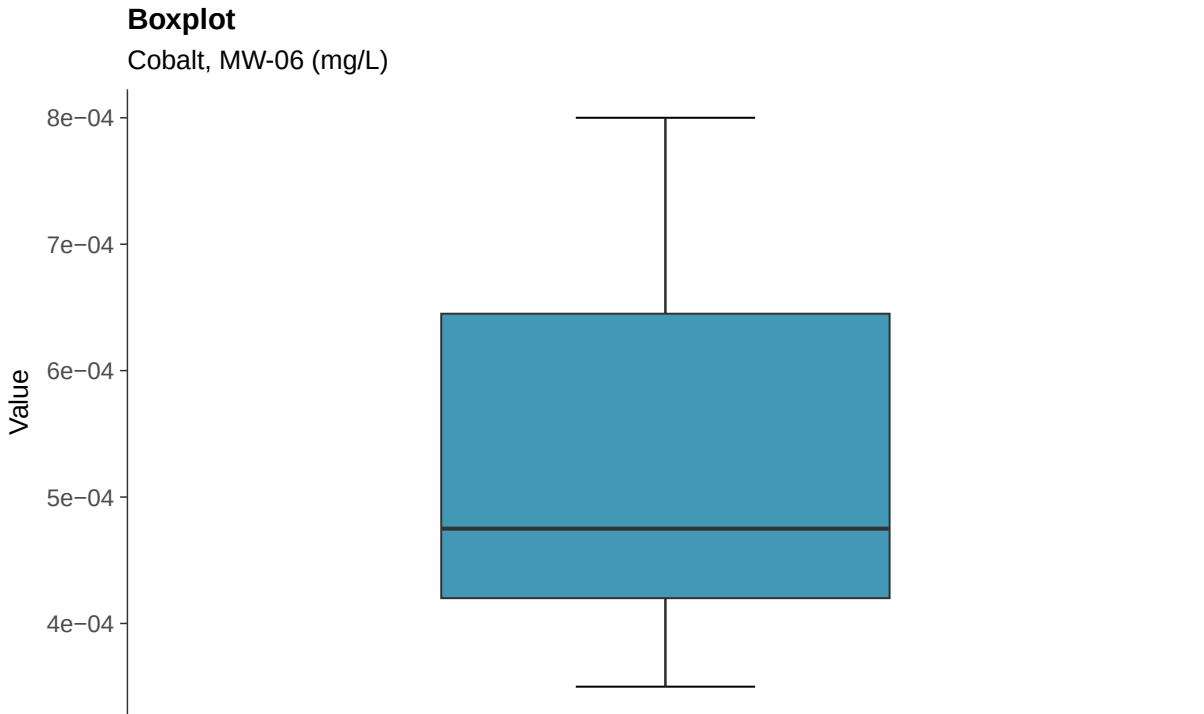


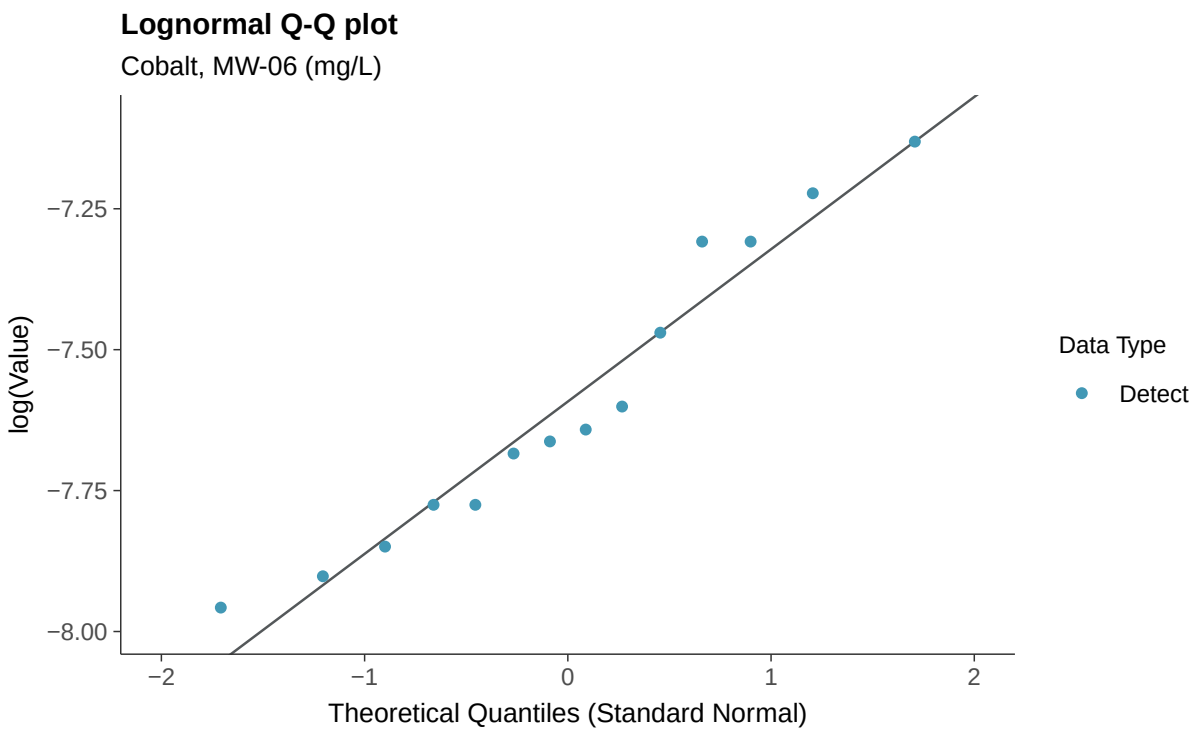
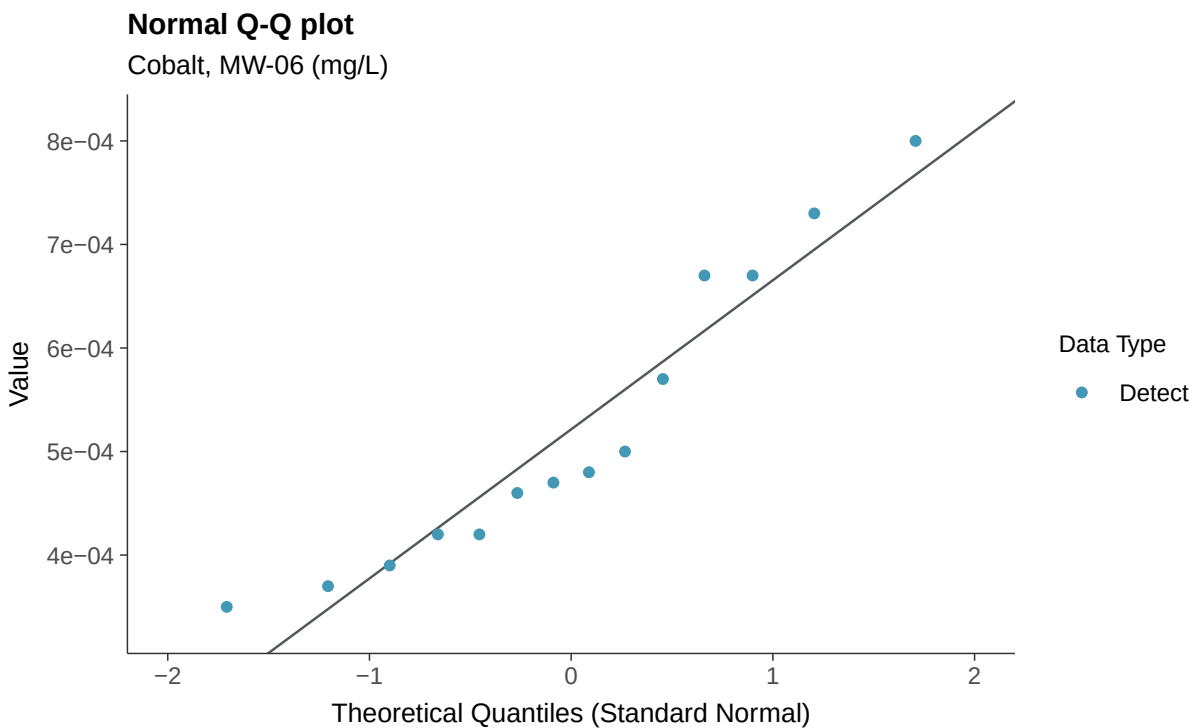


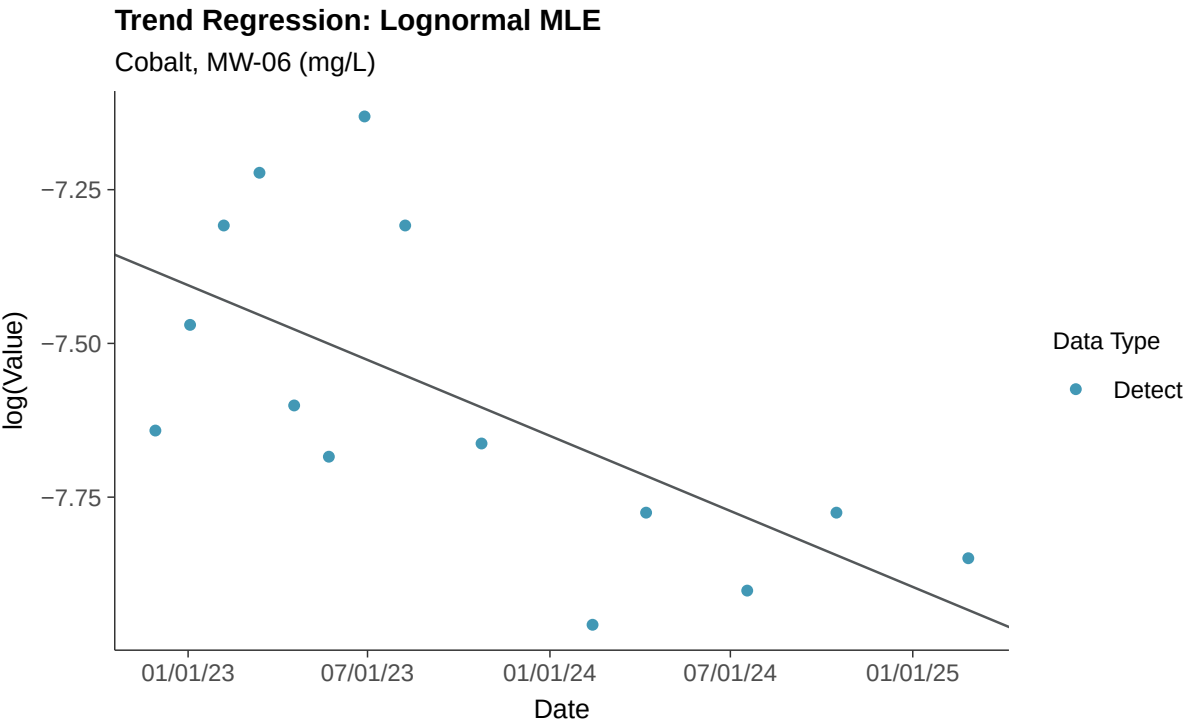
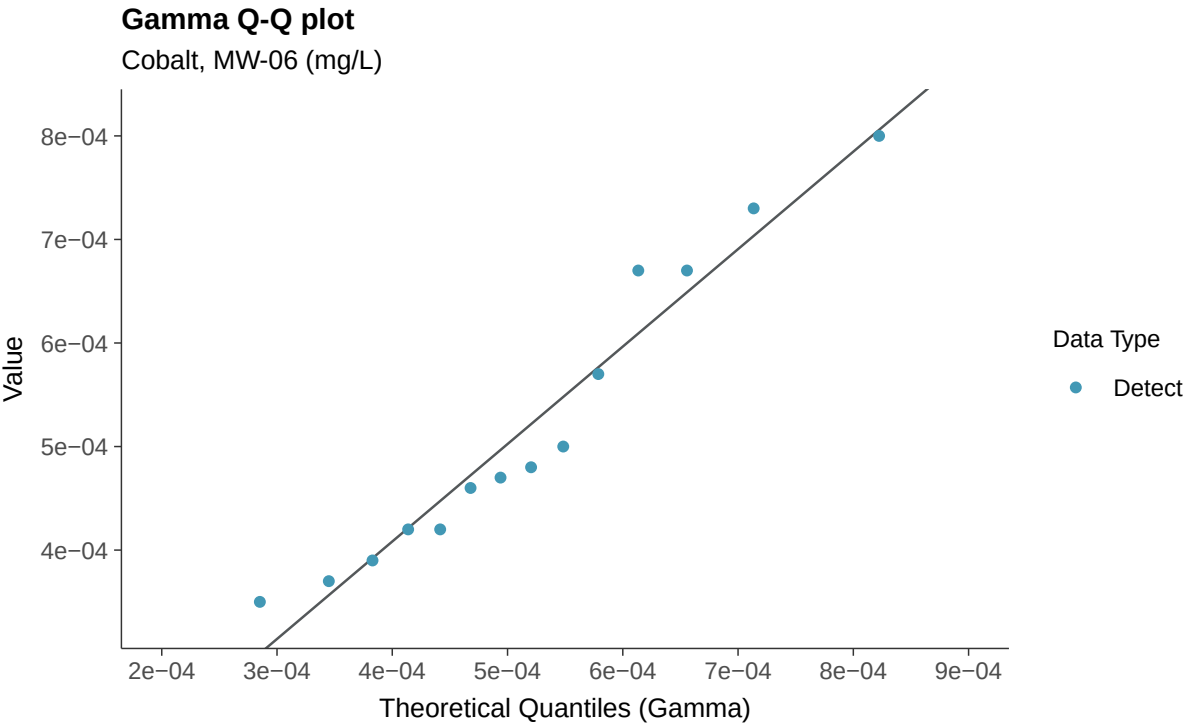
Appendix IV: Cobalt, MW-06

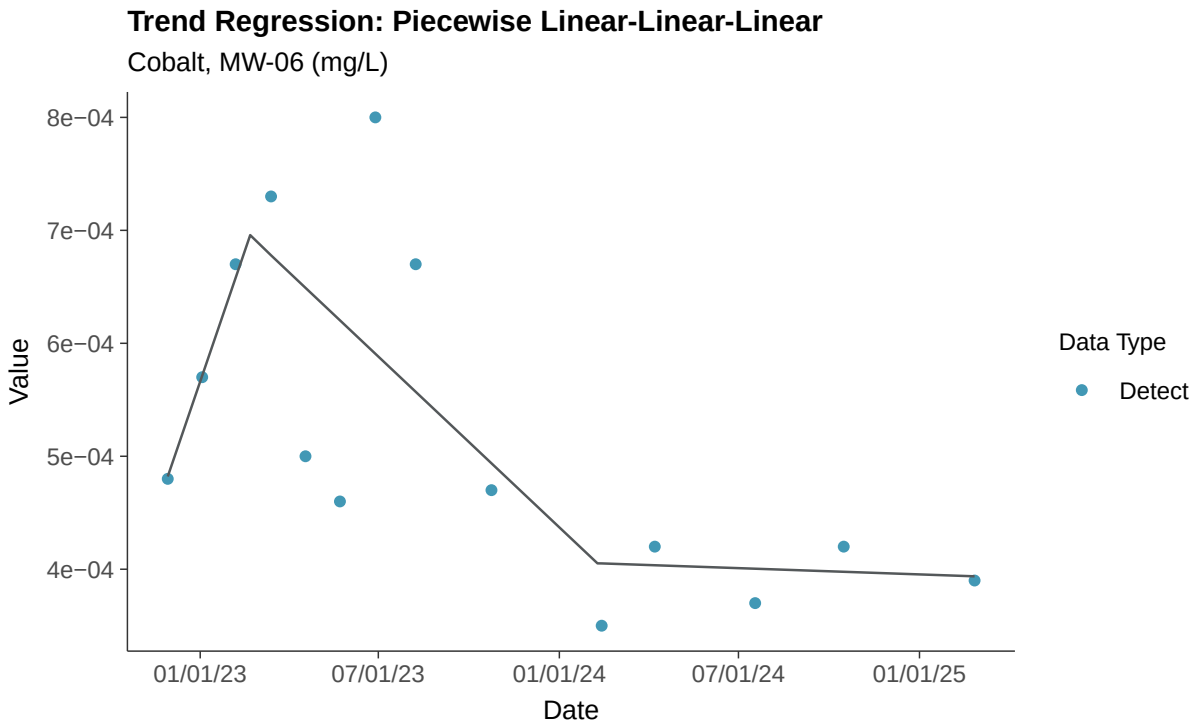
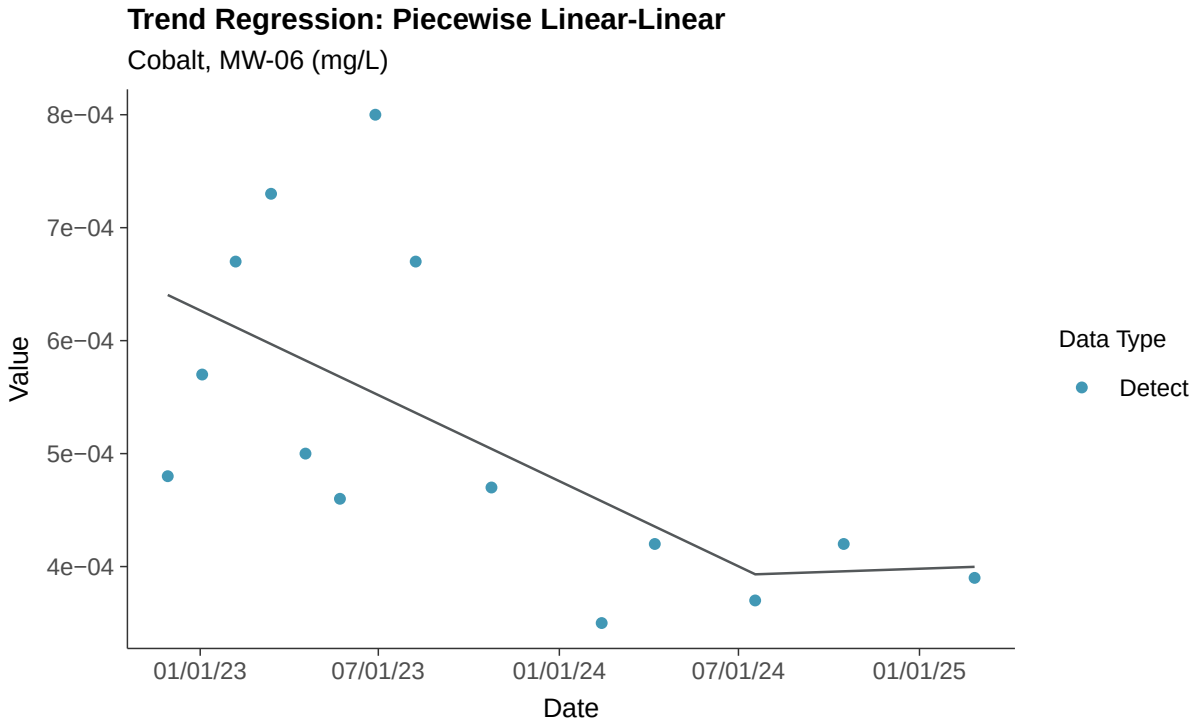
ID: 16_1_4_110







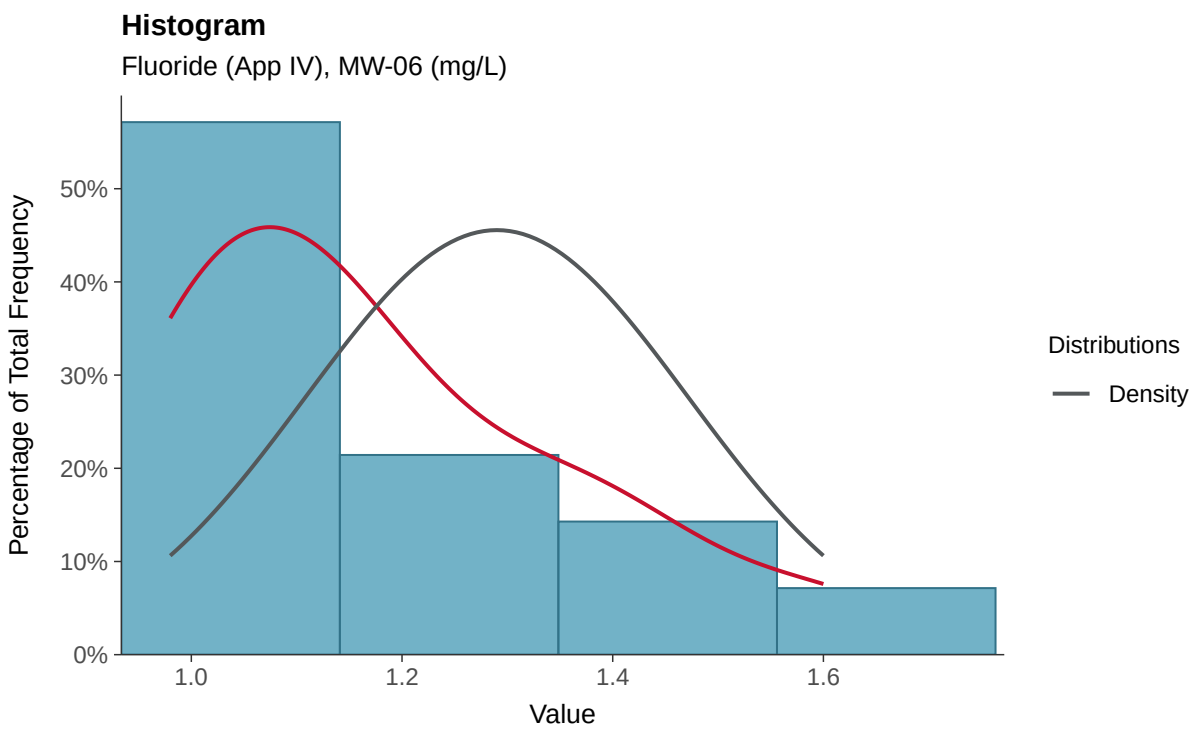
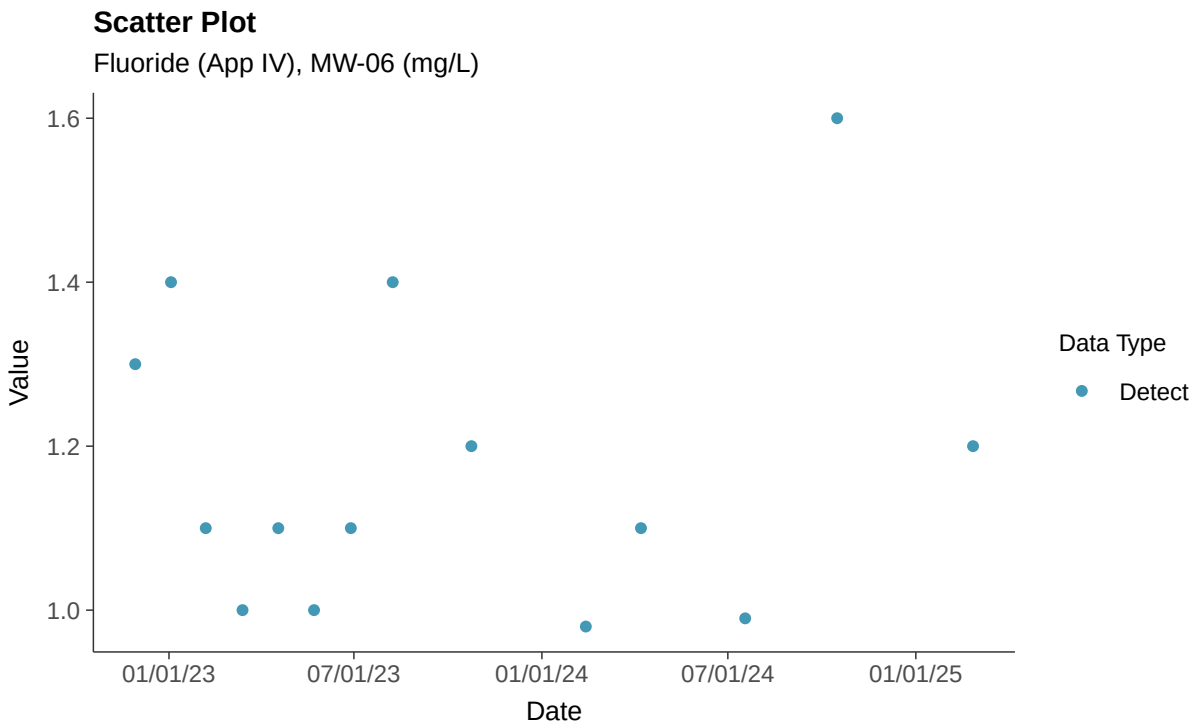






Appendix IV: Fluoride (App IV), MW-06

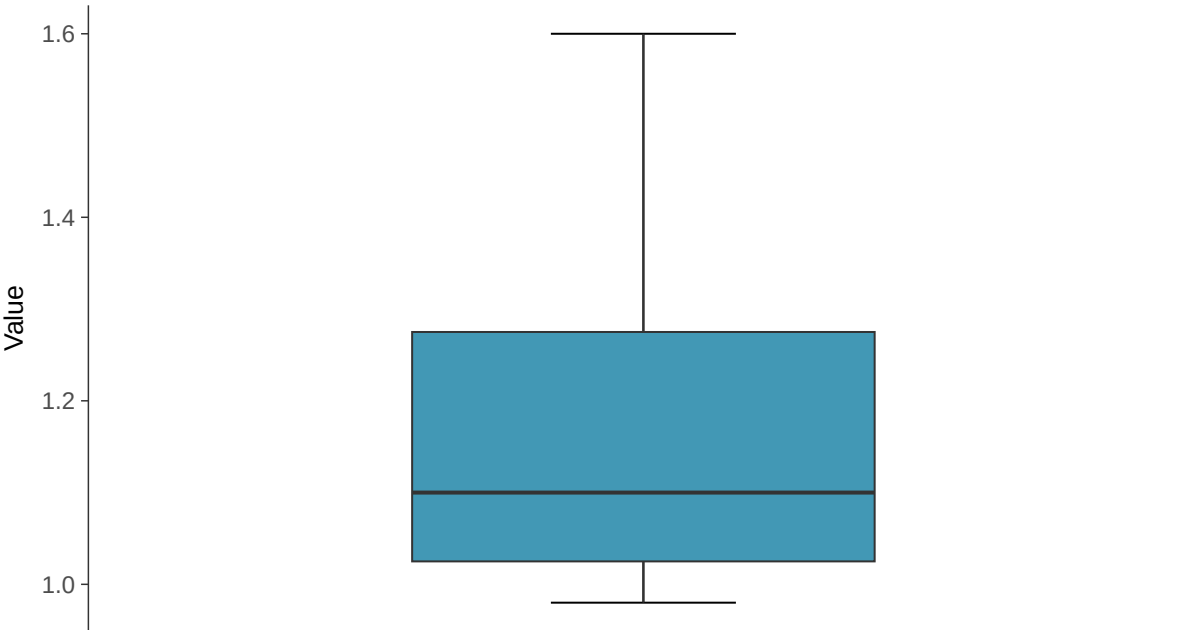
ID: 16_1_4_113





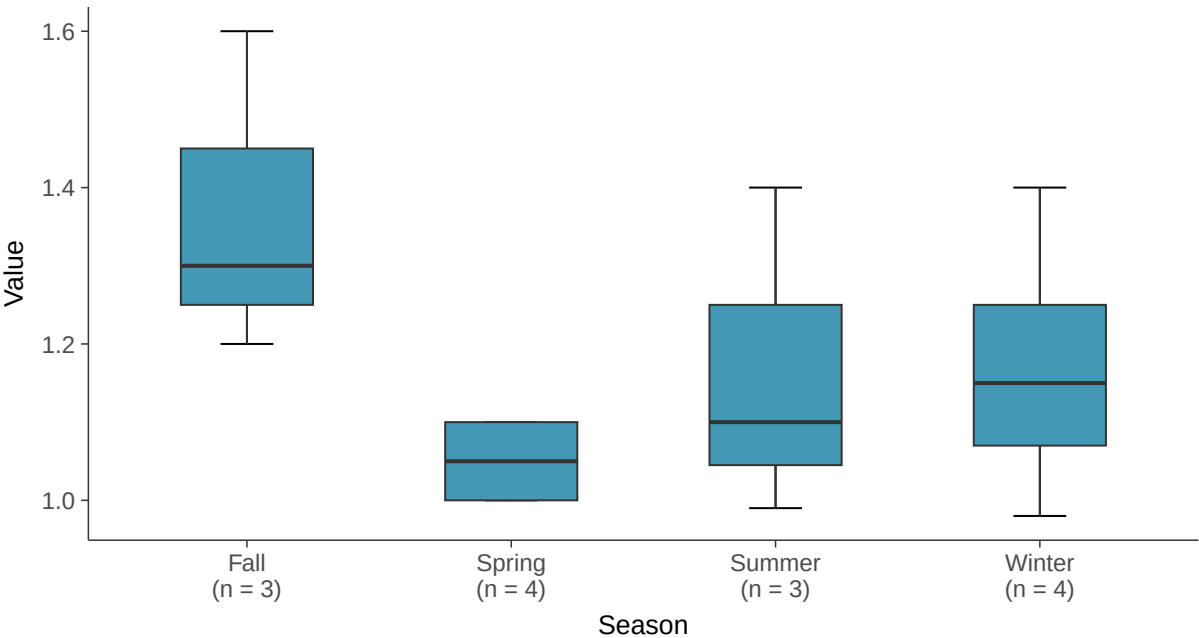
Boxplot

Fluoride (App IV), MW-06 (mg/L)



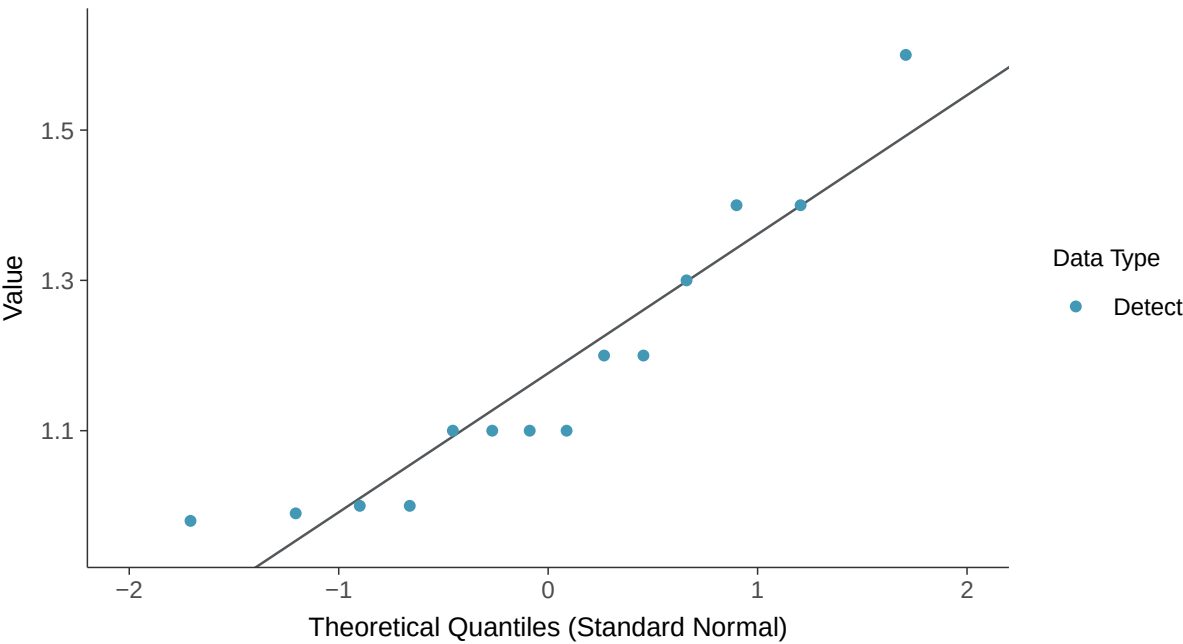
Boxplot by Season

Fluoride (App IV), MW-06 (mg/L)

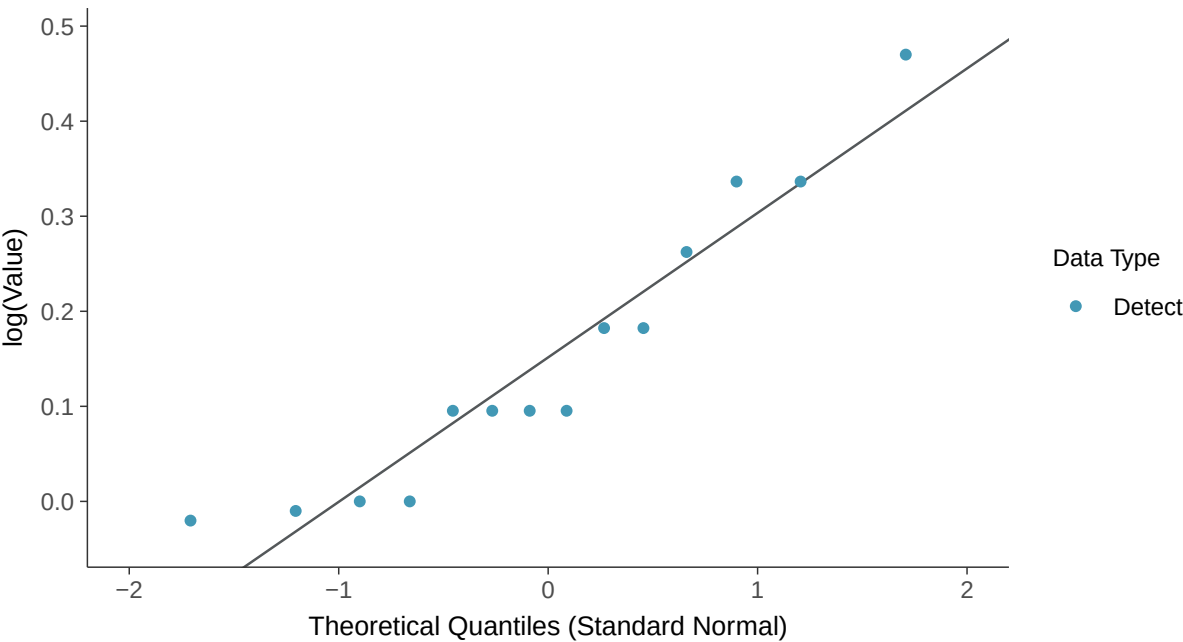


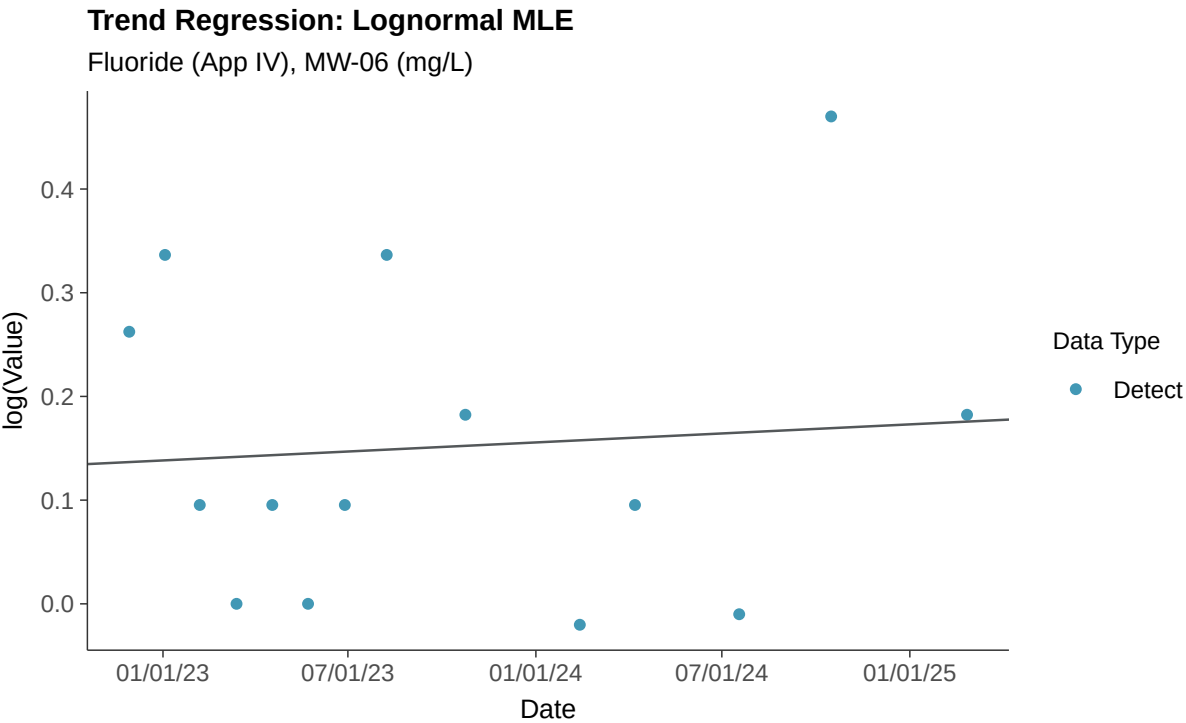
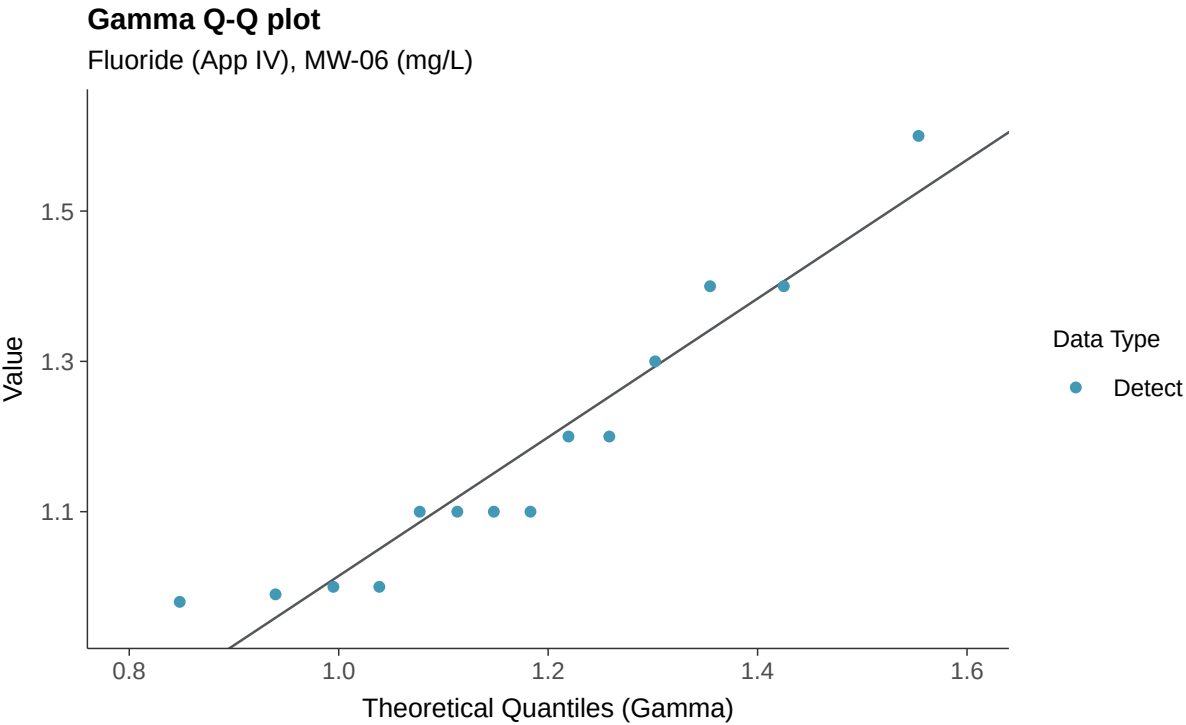


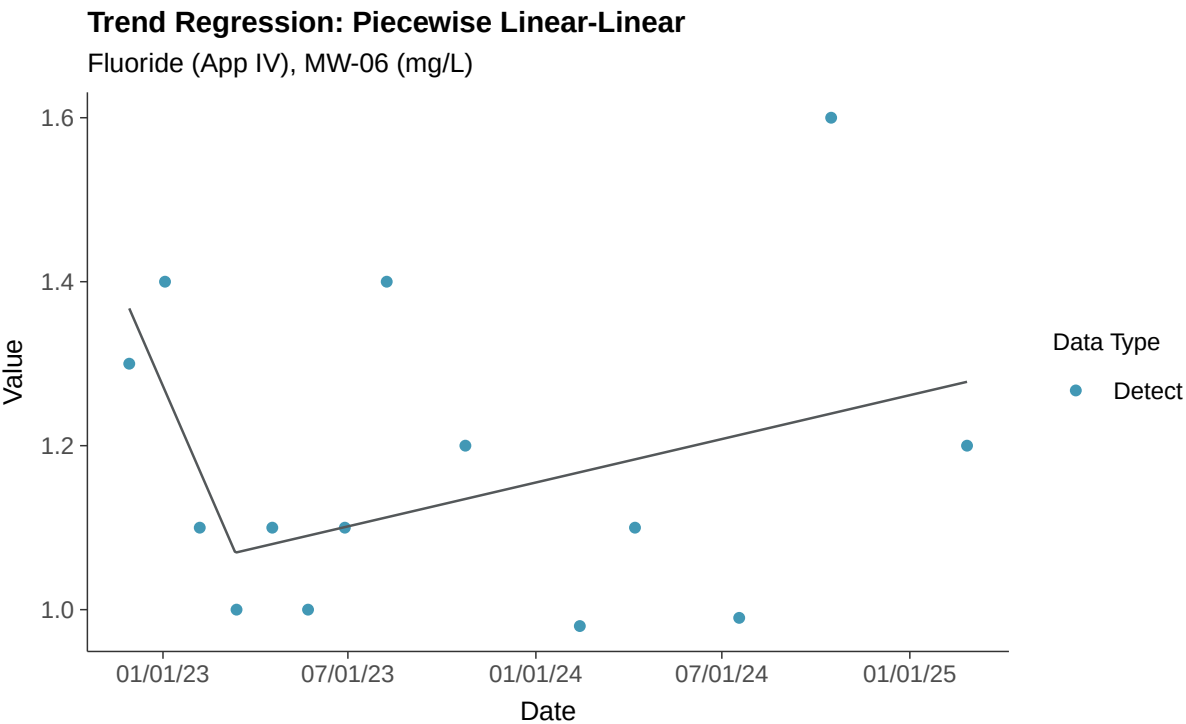
Normal Q-Q plot
Fluoride (App IV), MW-06 (mg/L)



Lognormal Q-Q plot
Fluoride (App IV), MW-06 (mg/L)



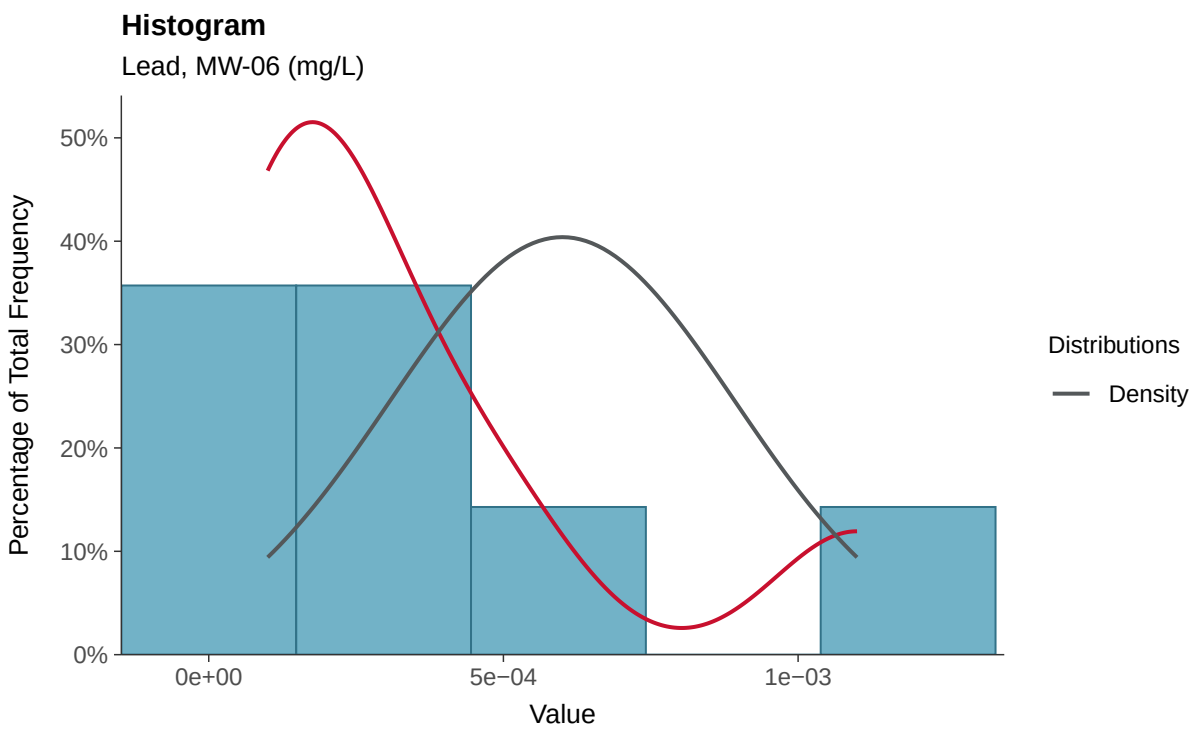
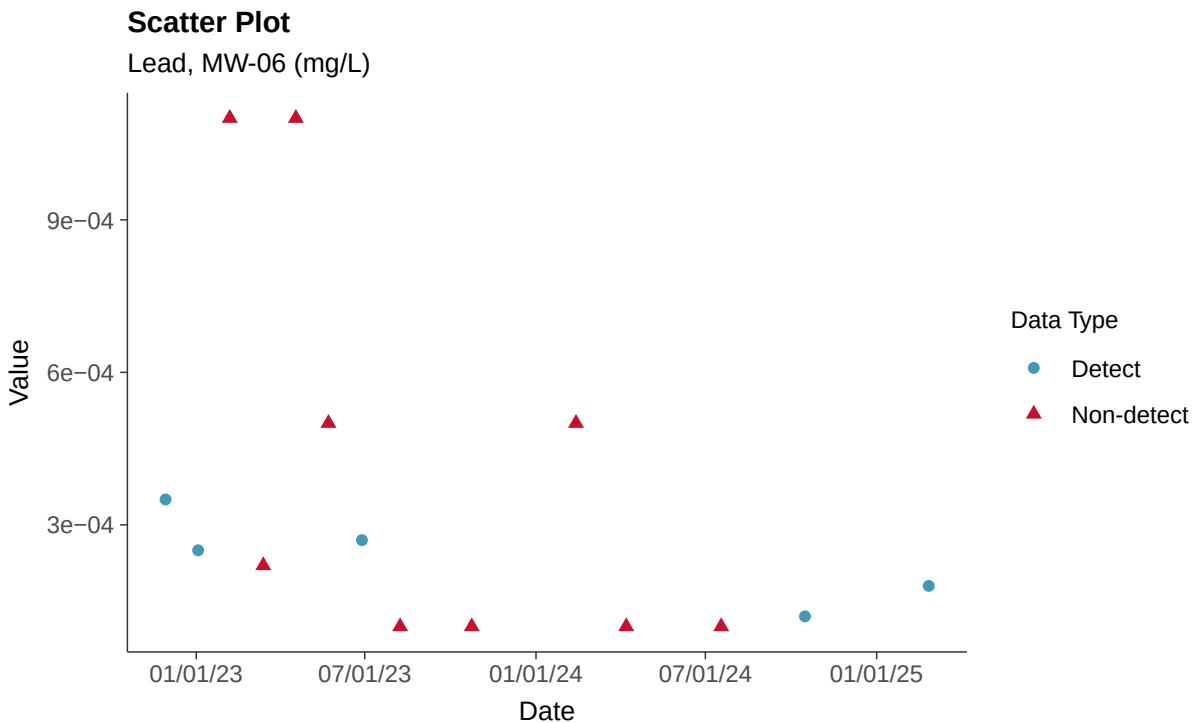


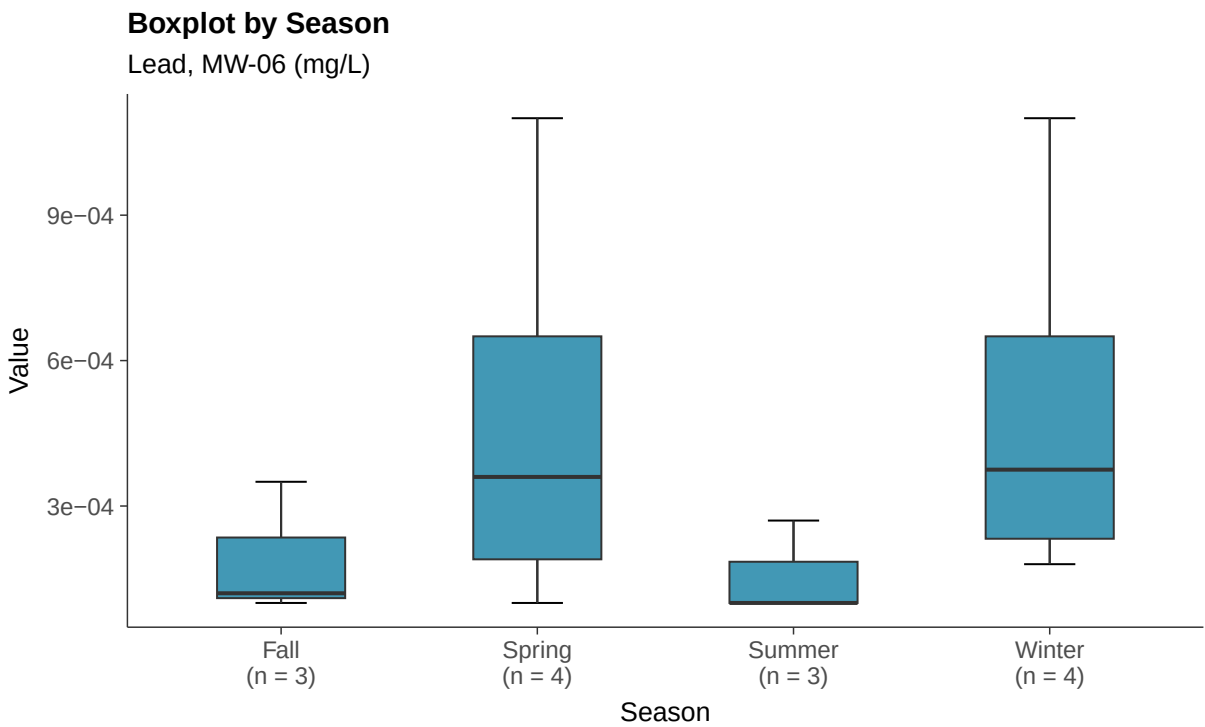
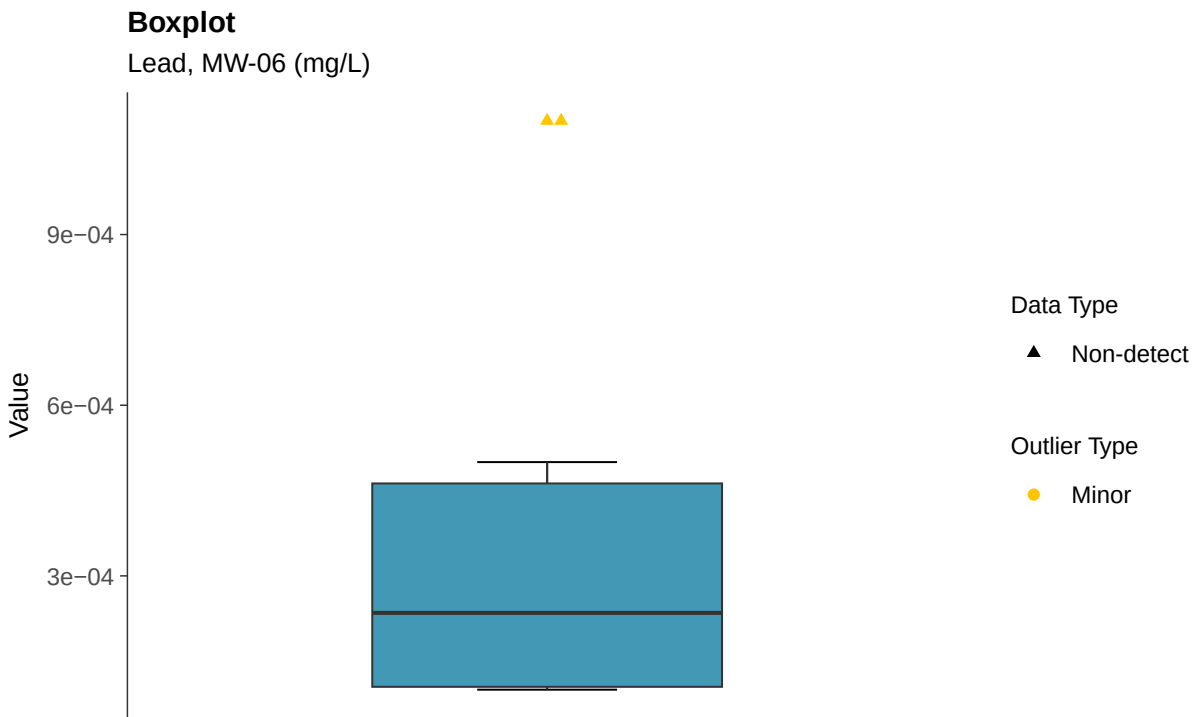




Appendix IV: Lead, MW-06

ID: 16_1_4_115

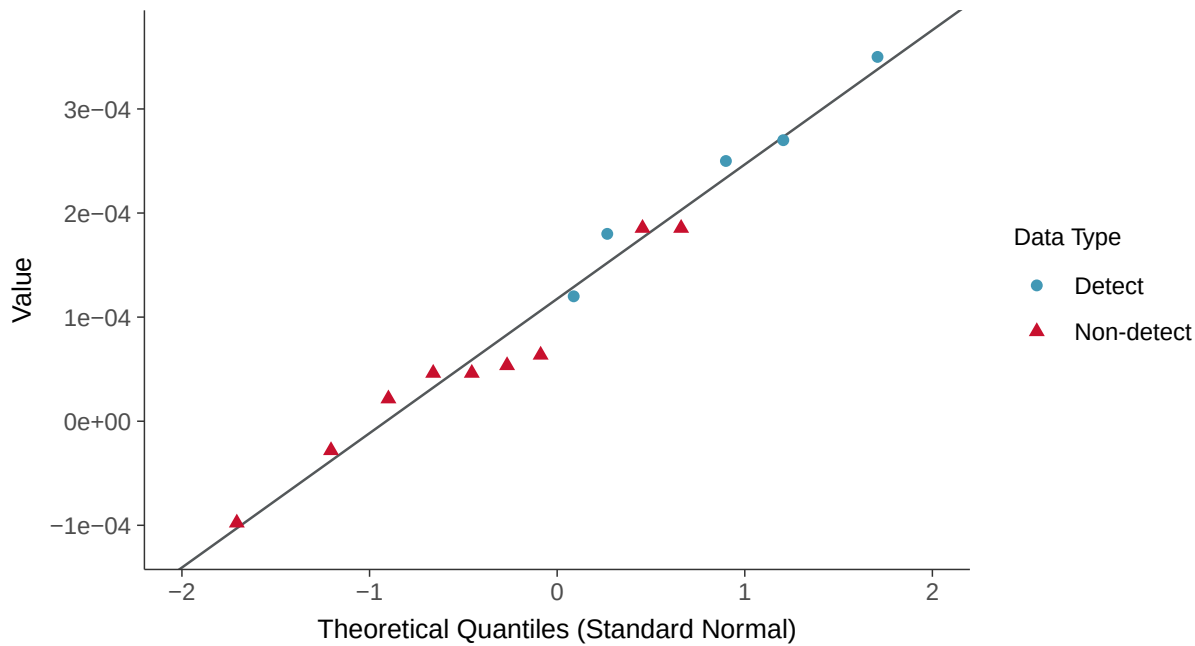






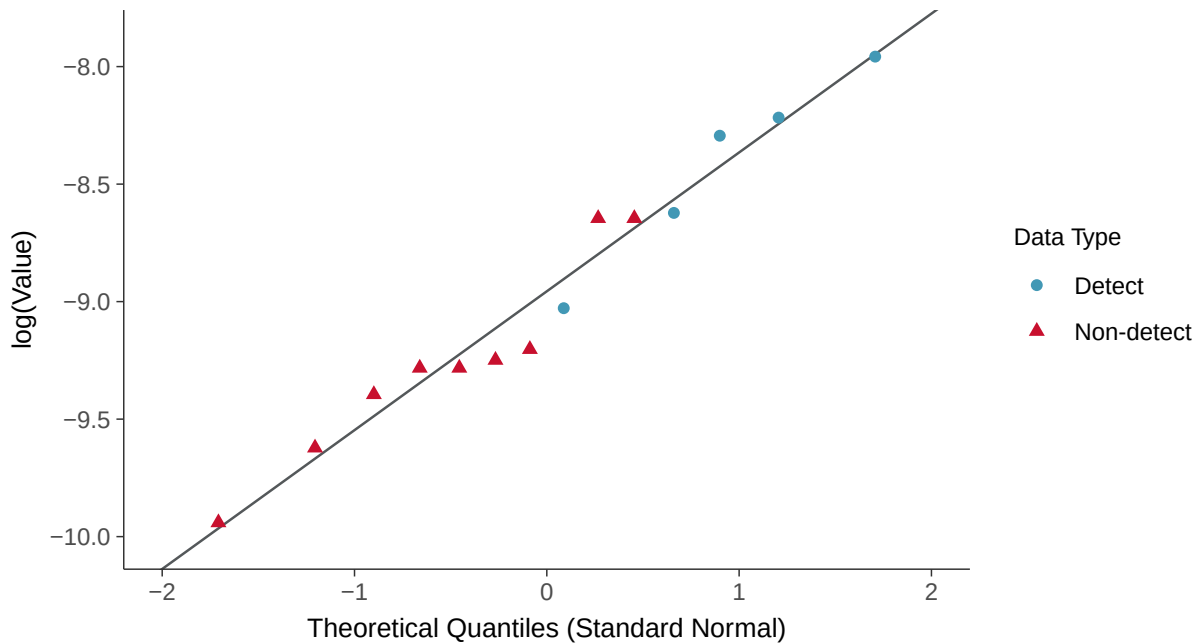
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-06 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

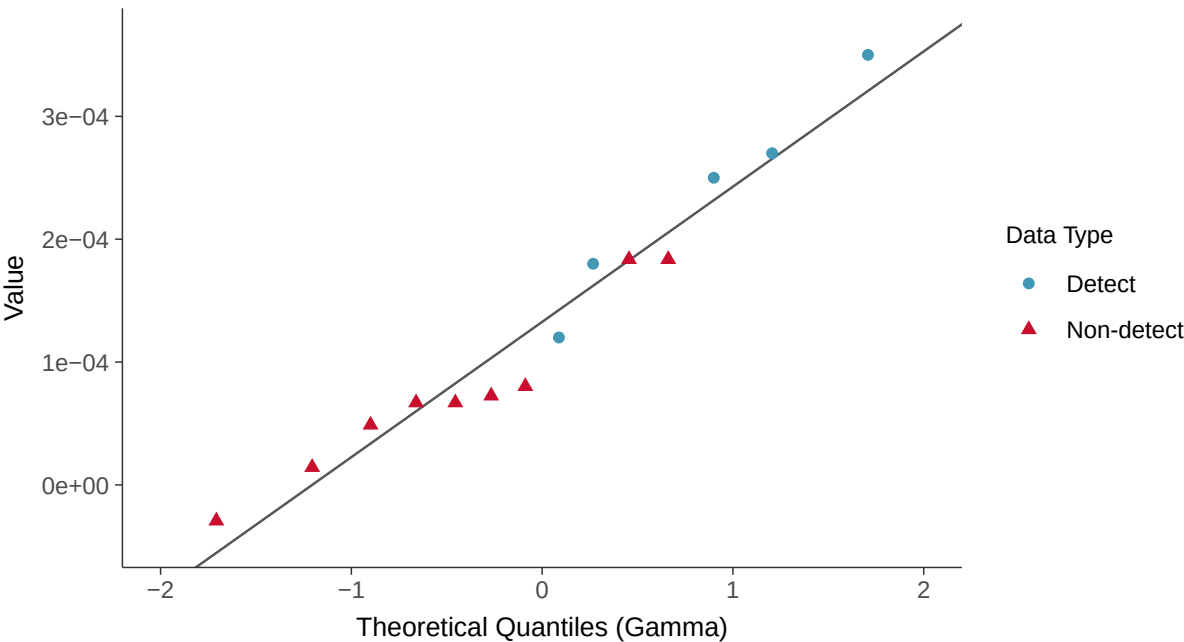
Lead, MW-06 (mg/L)





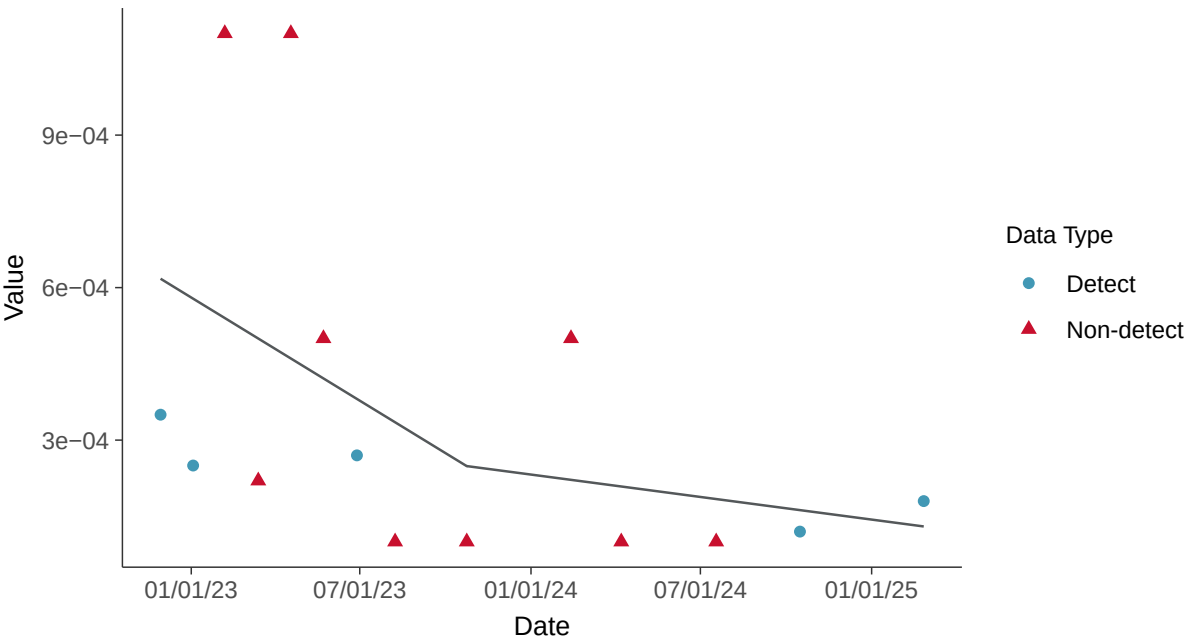
Gamma Q-Q plot using ROS Imputed Estimates

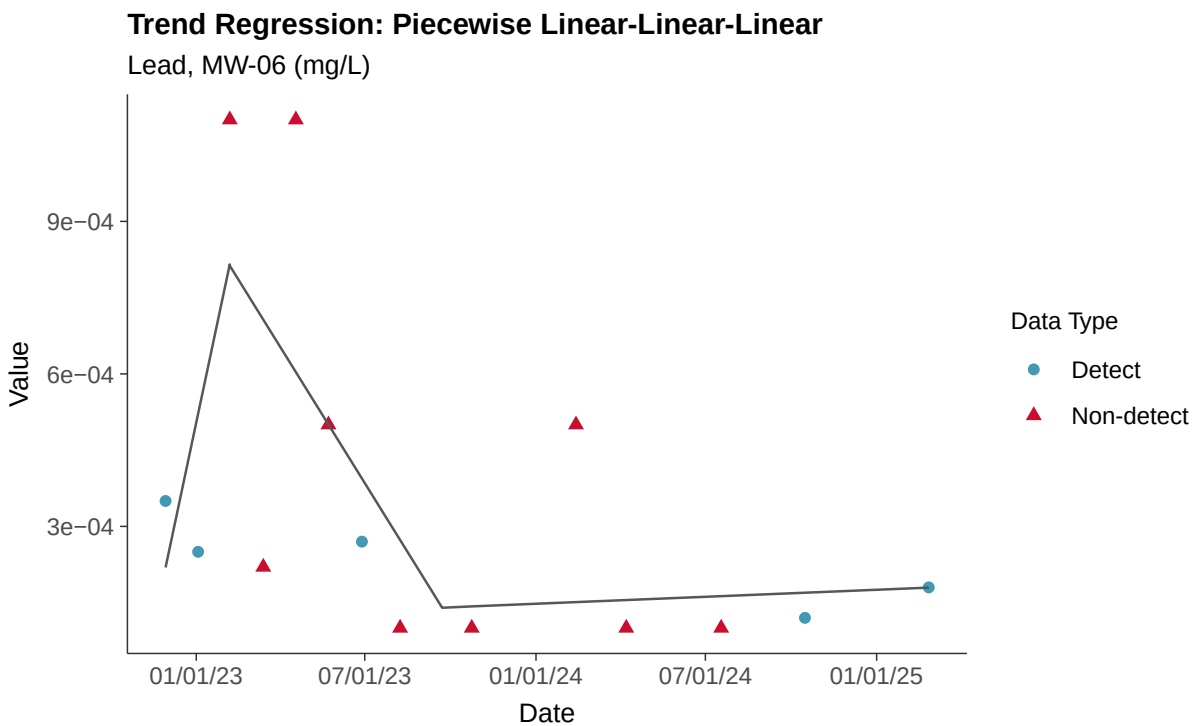
Lead, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Lead, MW-06 (mg/L)

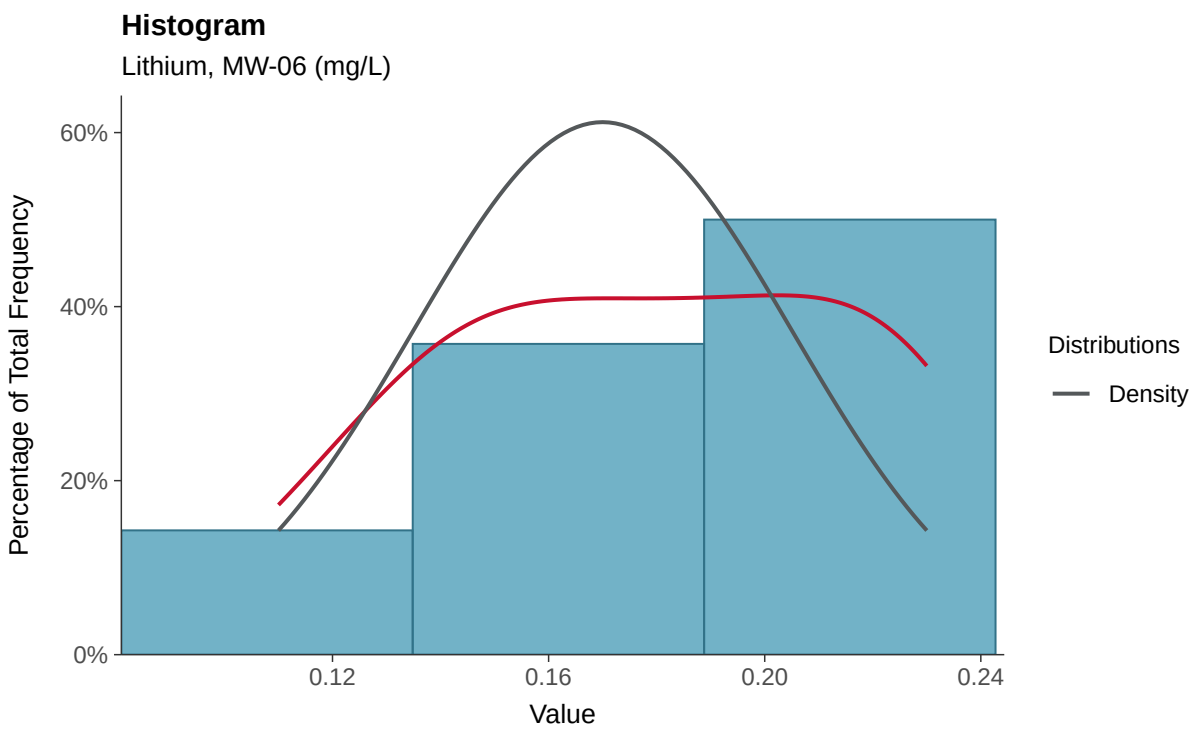
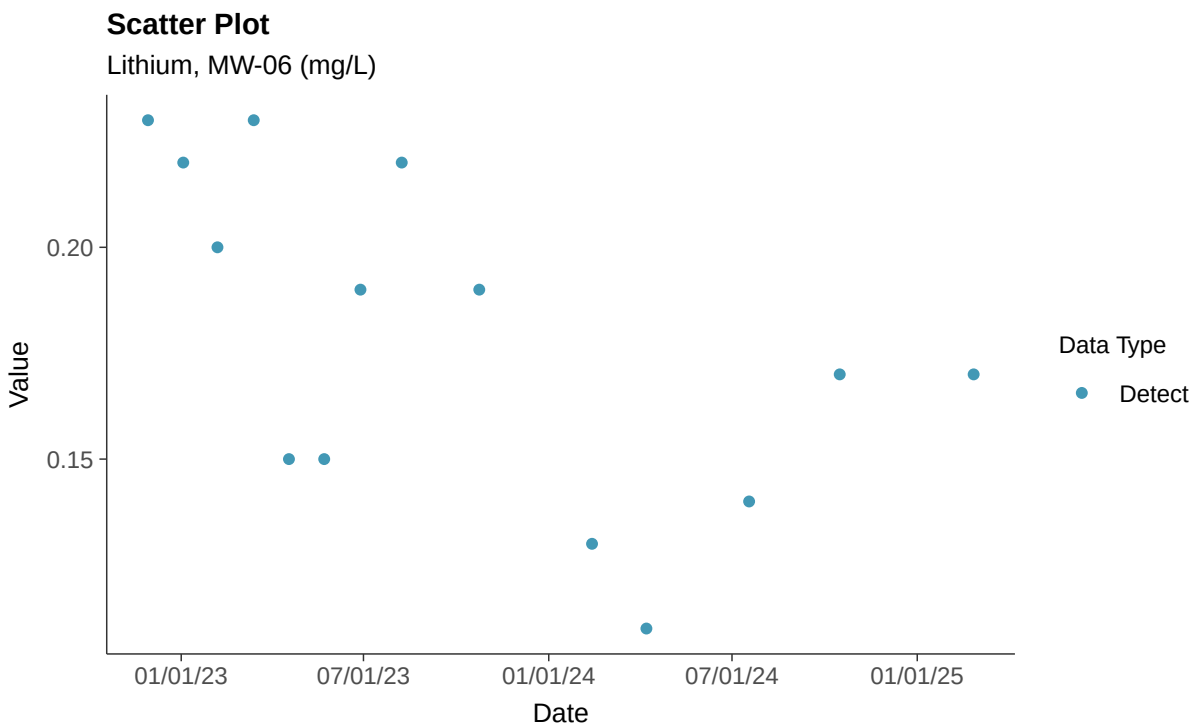


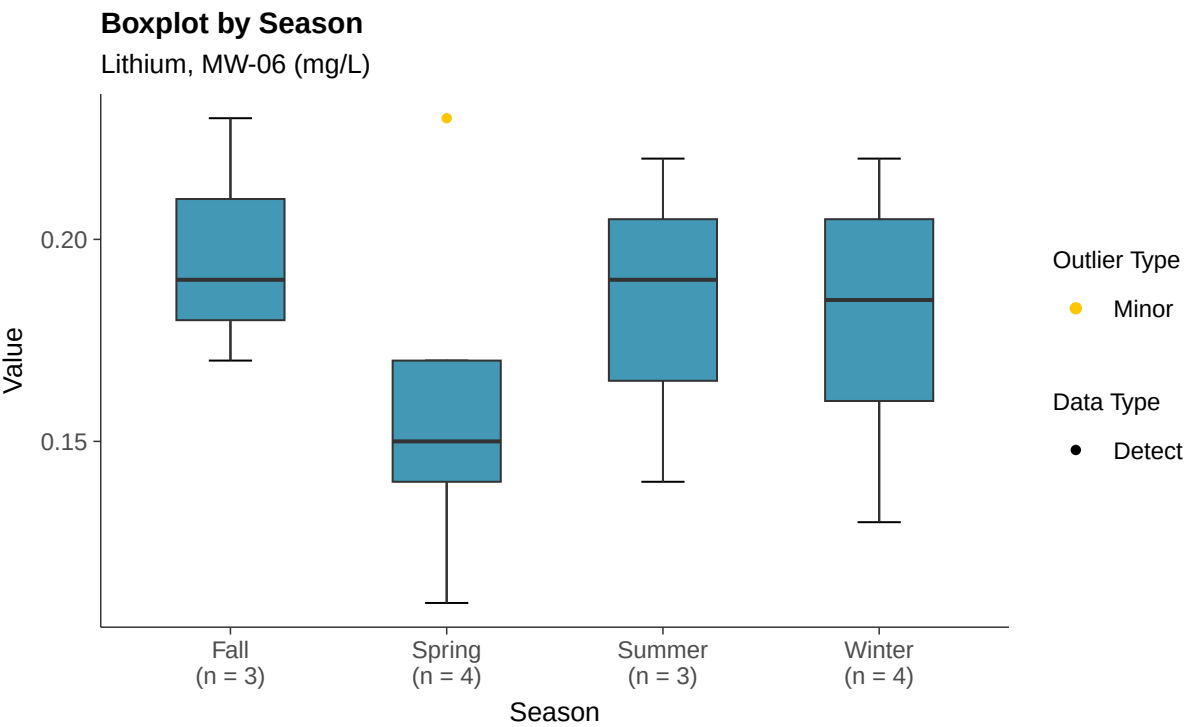
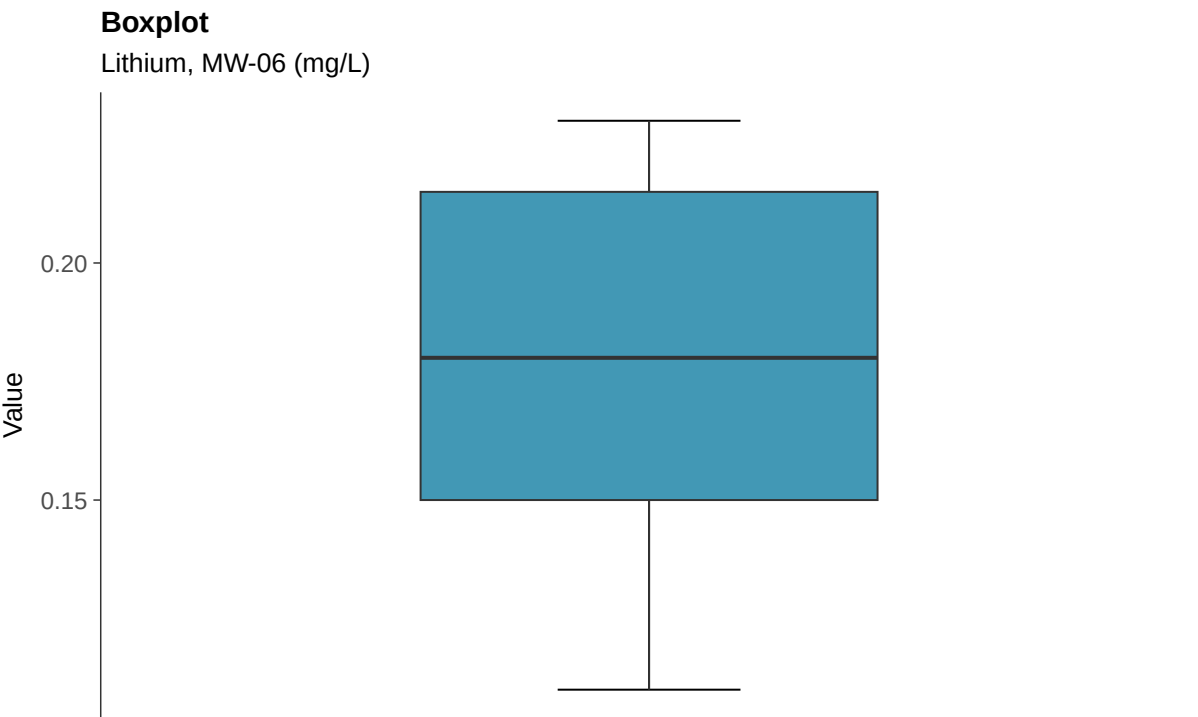


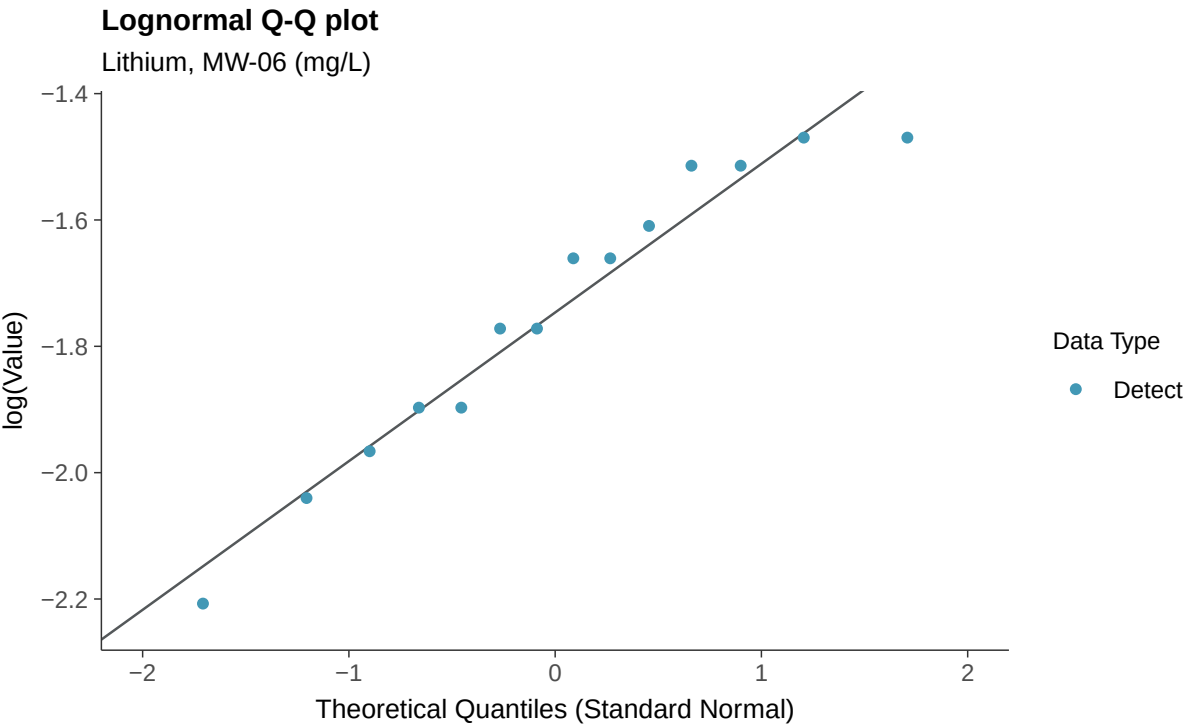
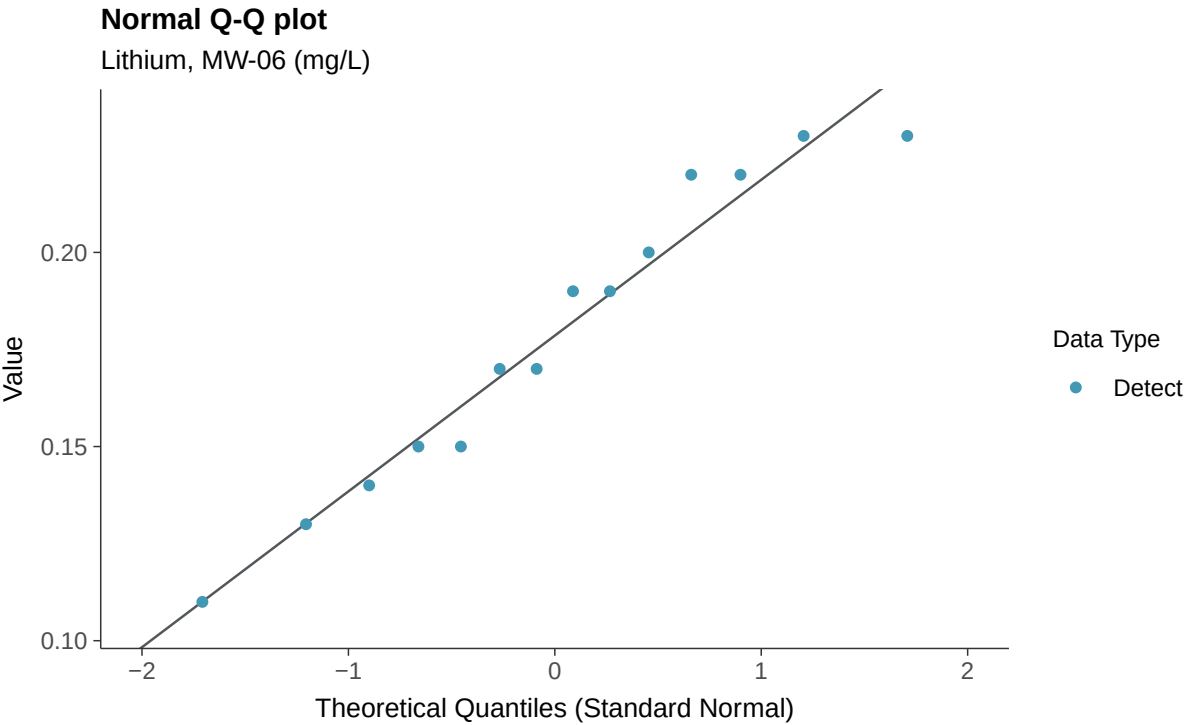


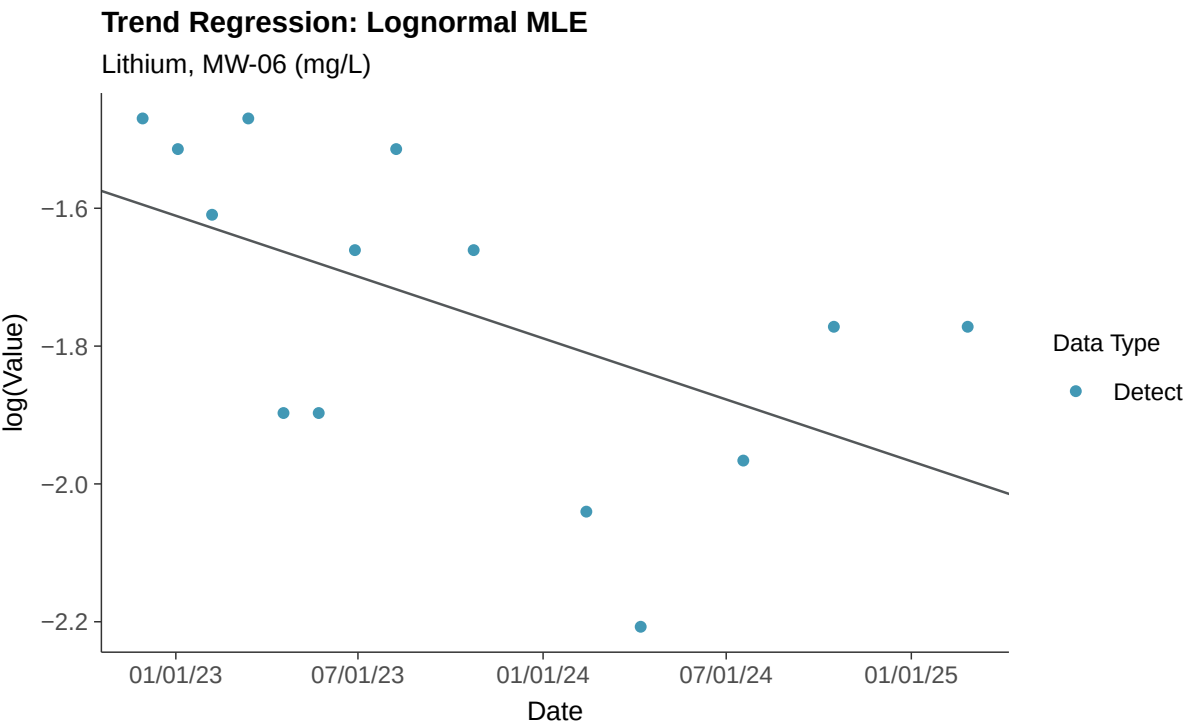
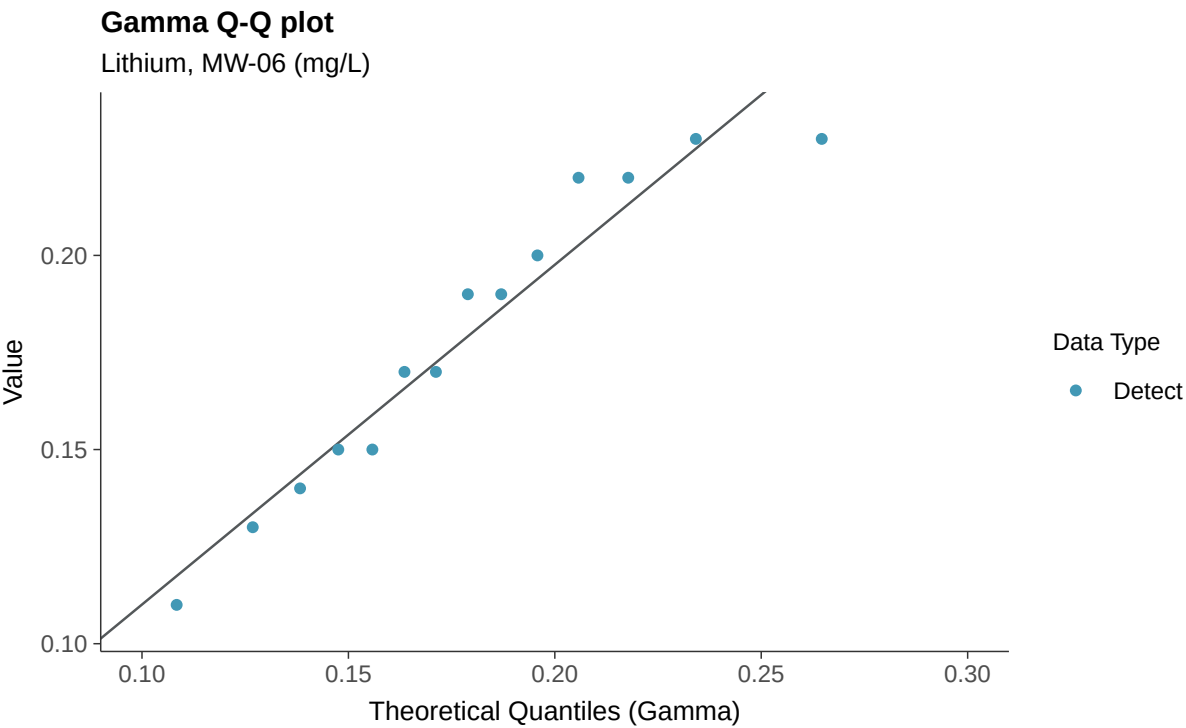
Appendix IV: Lithium, MW-06

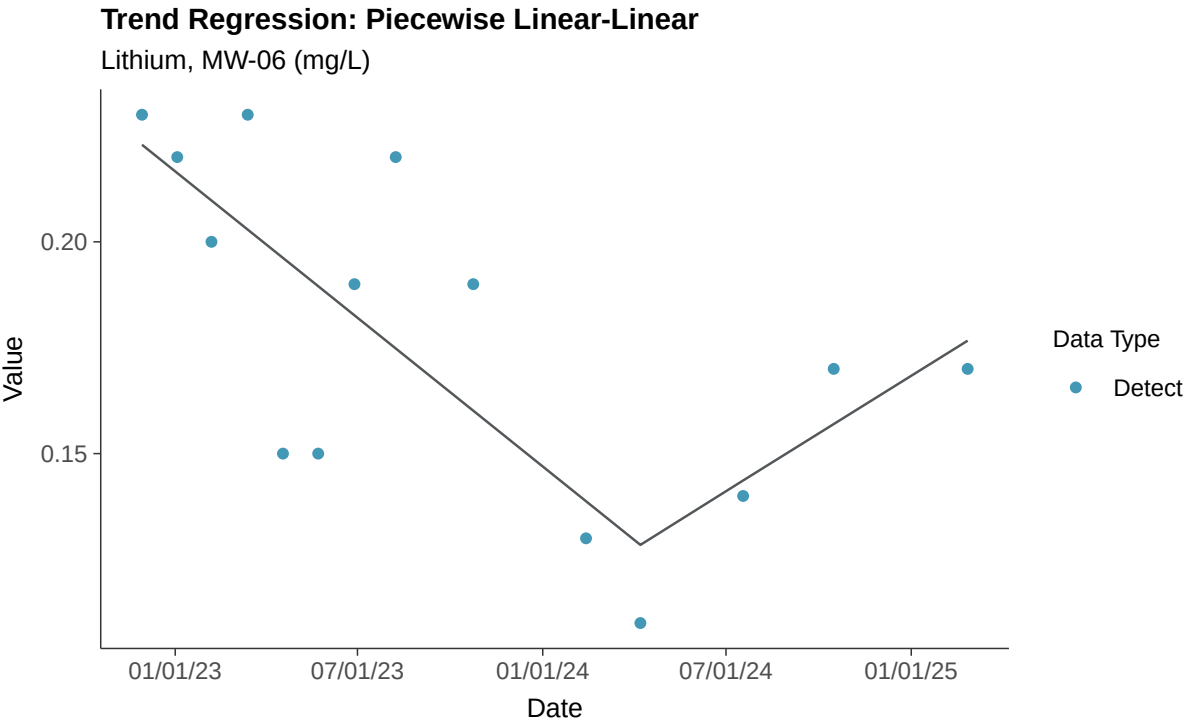
ID: 16_1_4_116







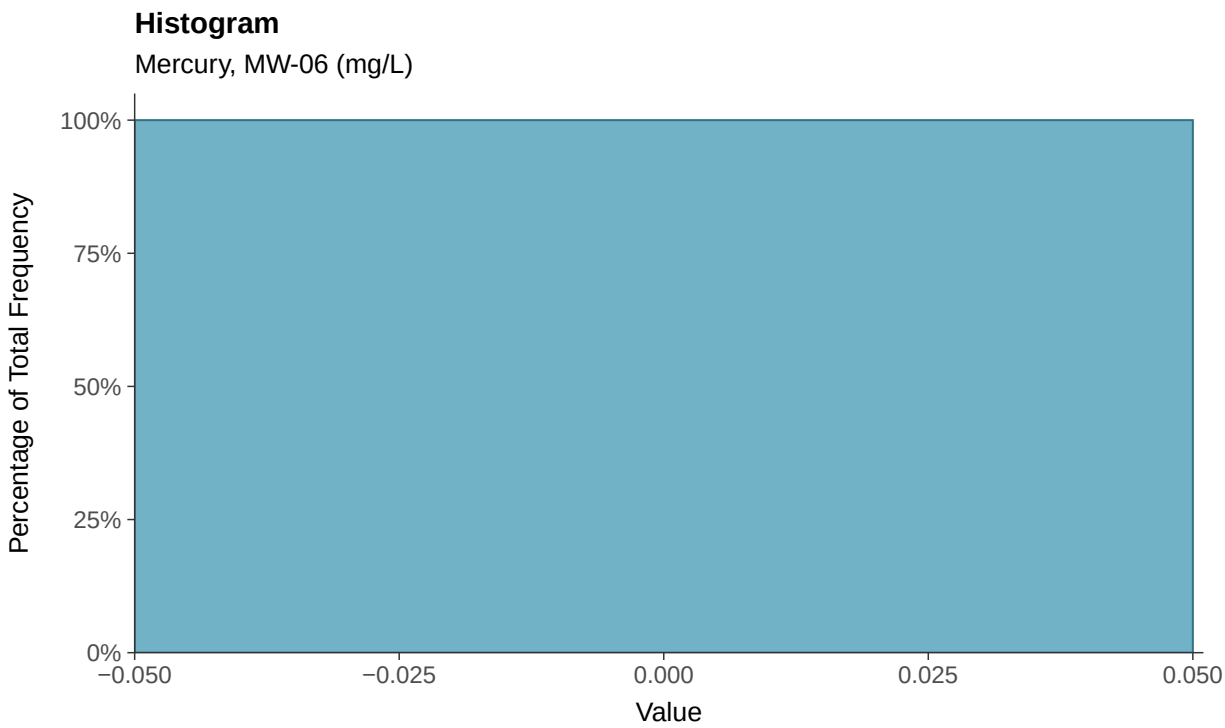
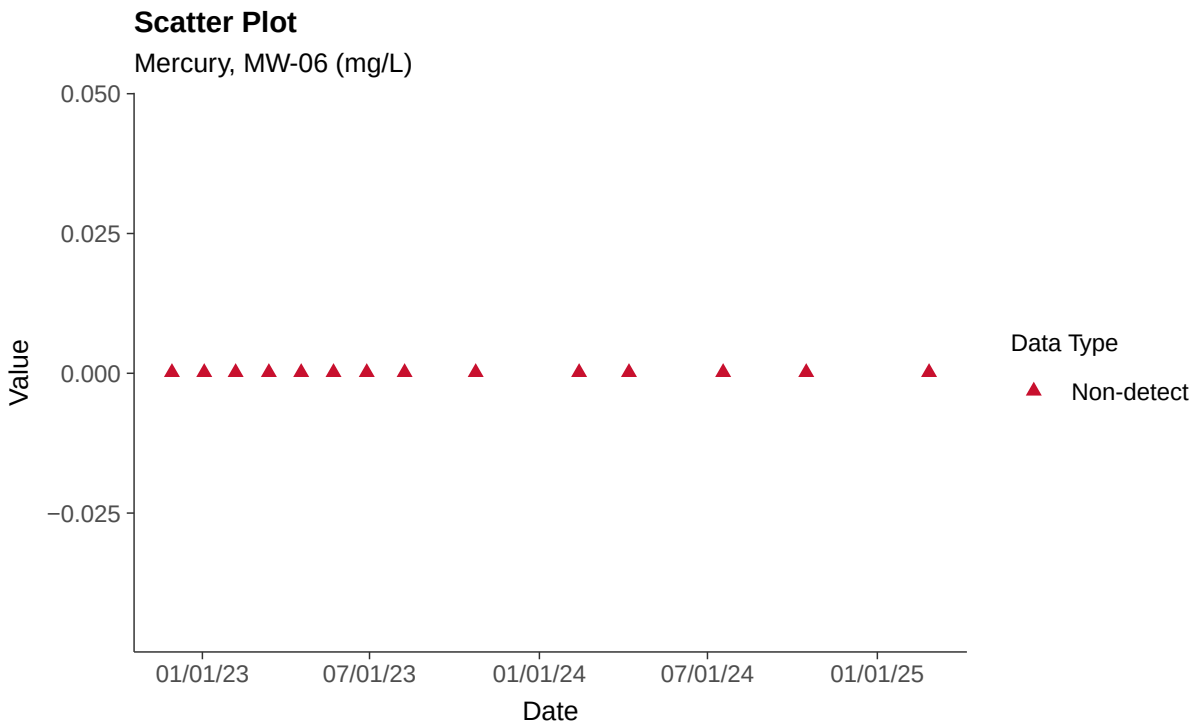


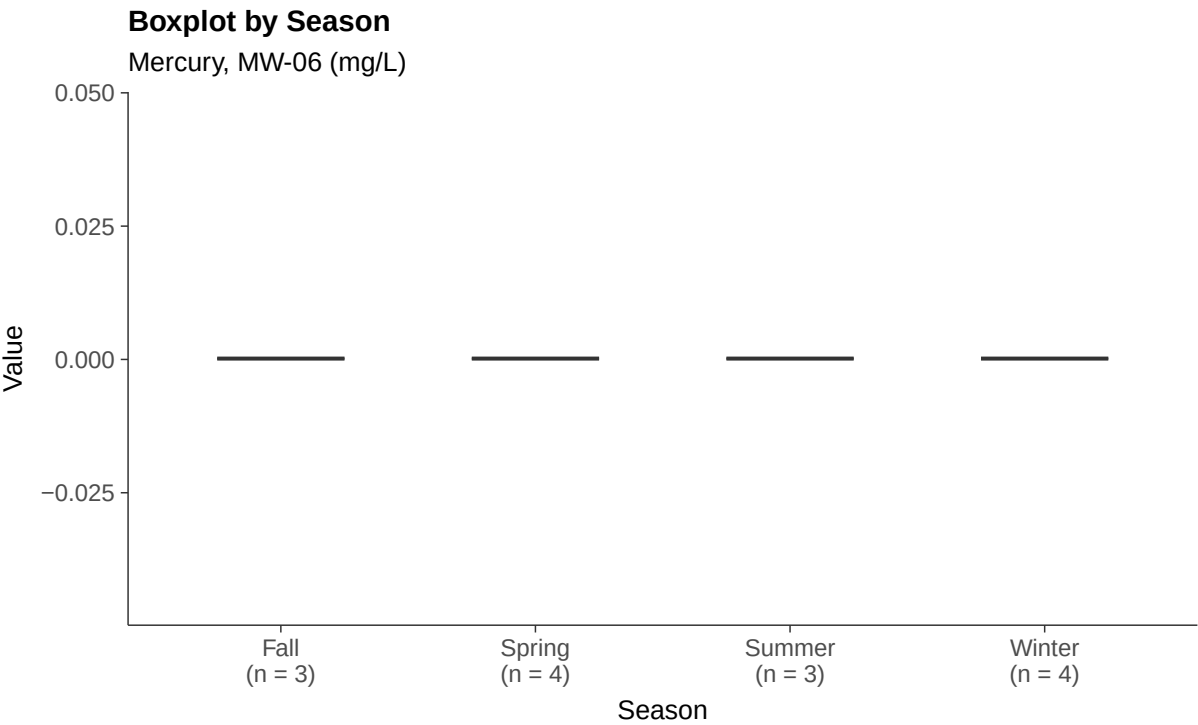
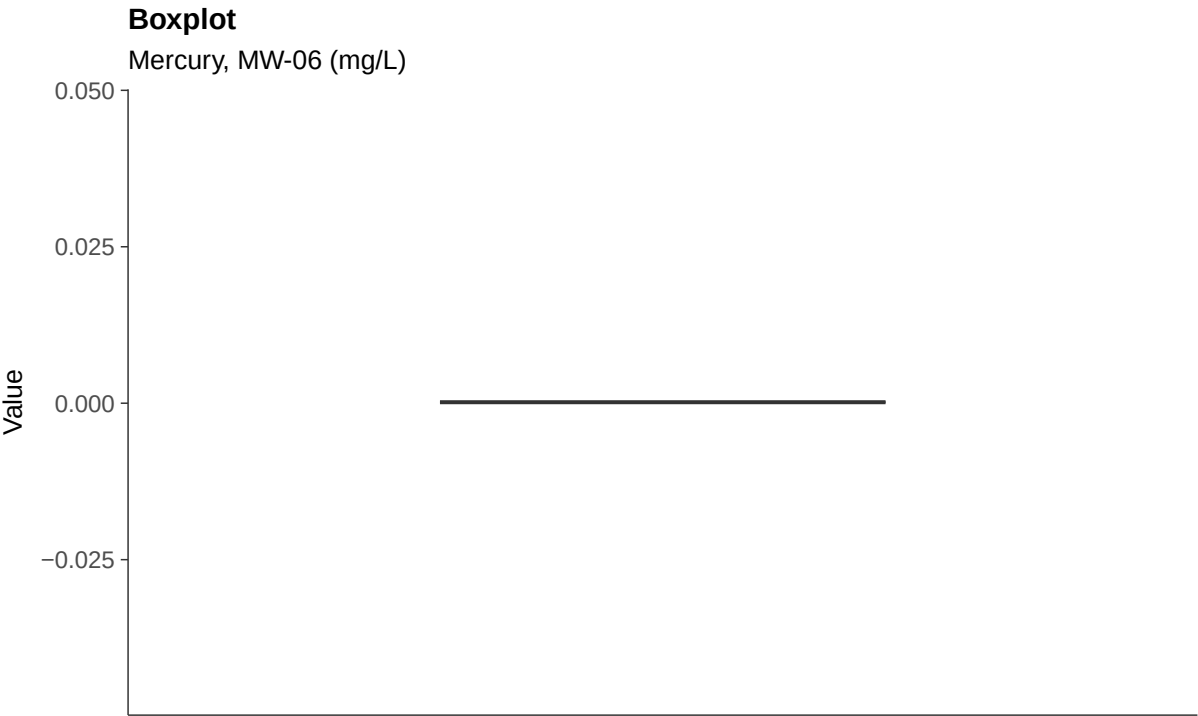




Appendix IV: Mercury, MW-06

ID: 16_1_4_117

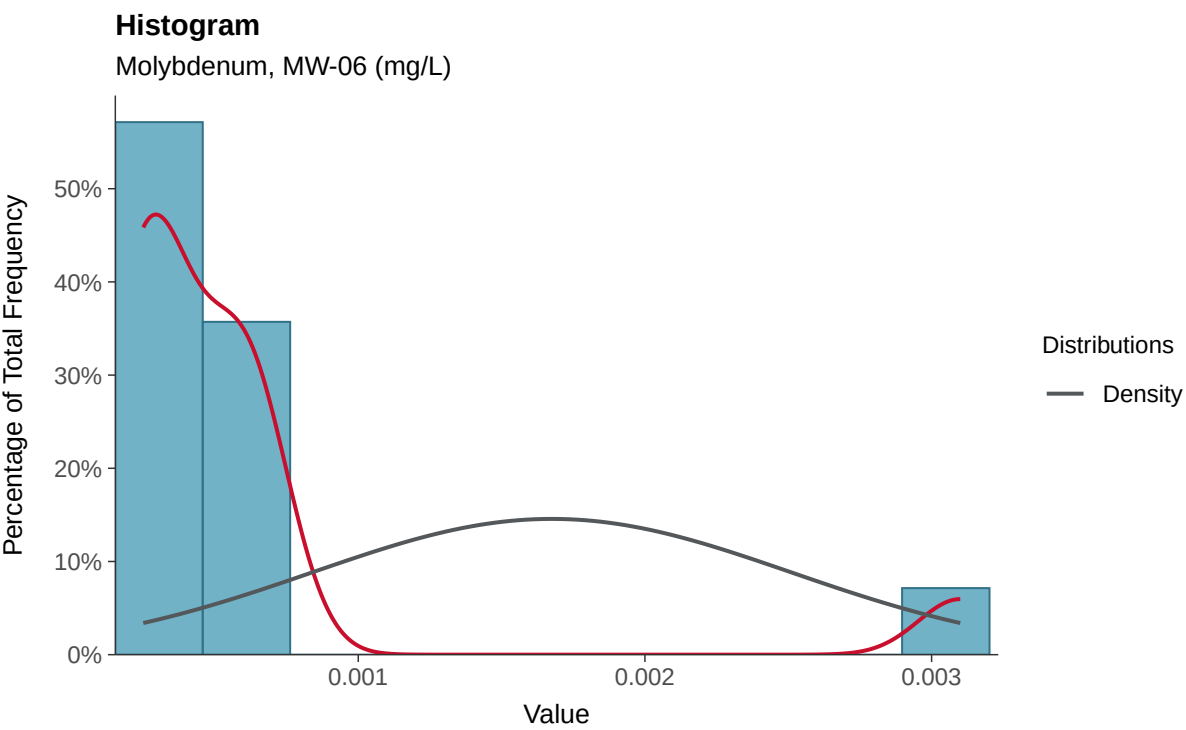
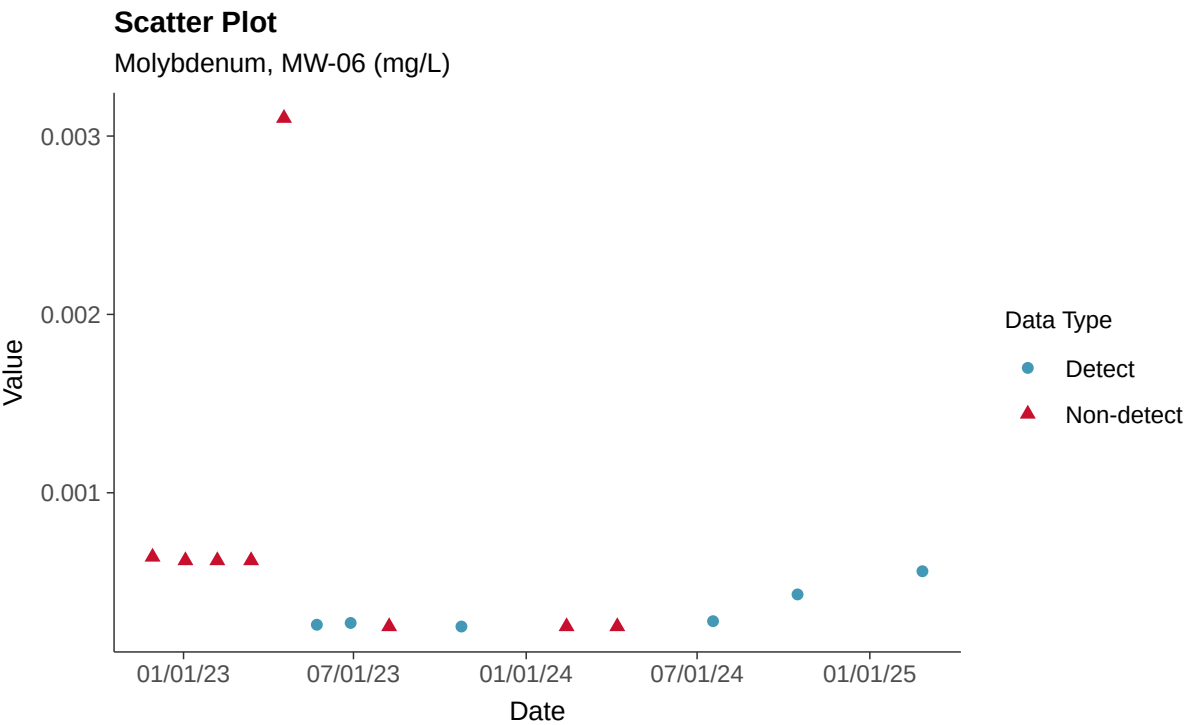


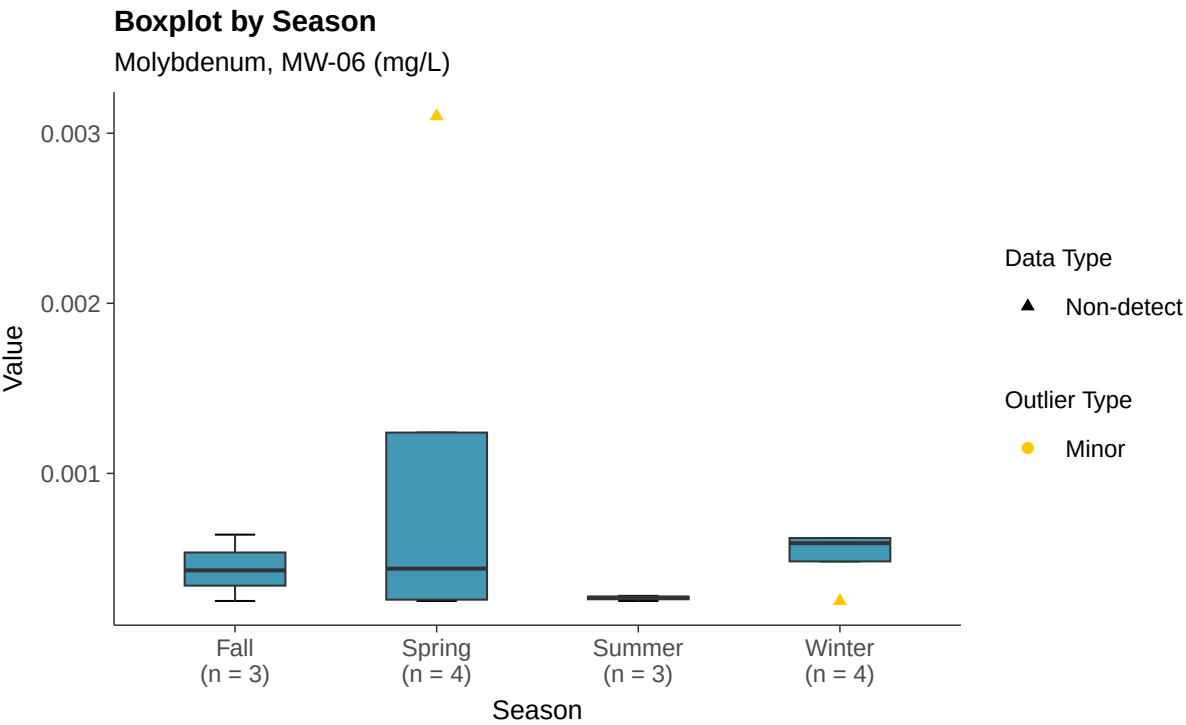
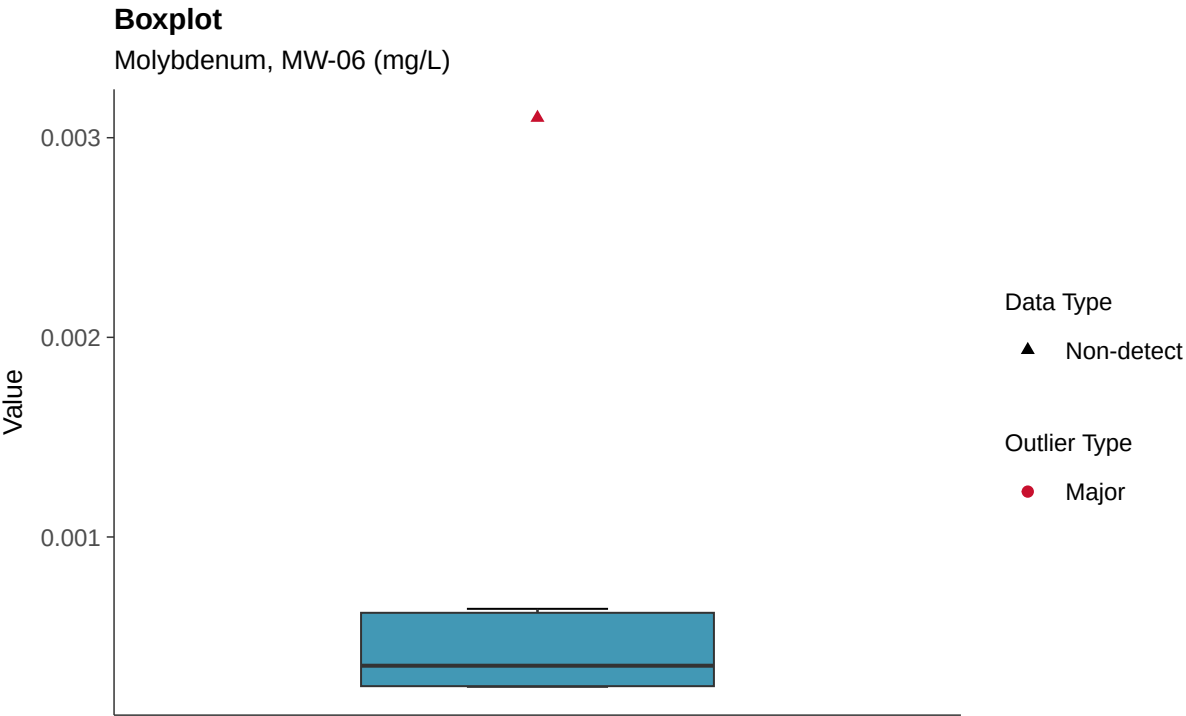




Appendix IV: Molybdenum, MW-06

ID: 16_1_4_118

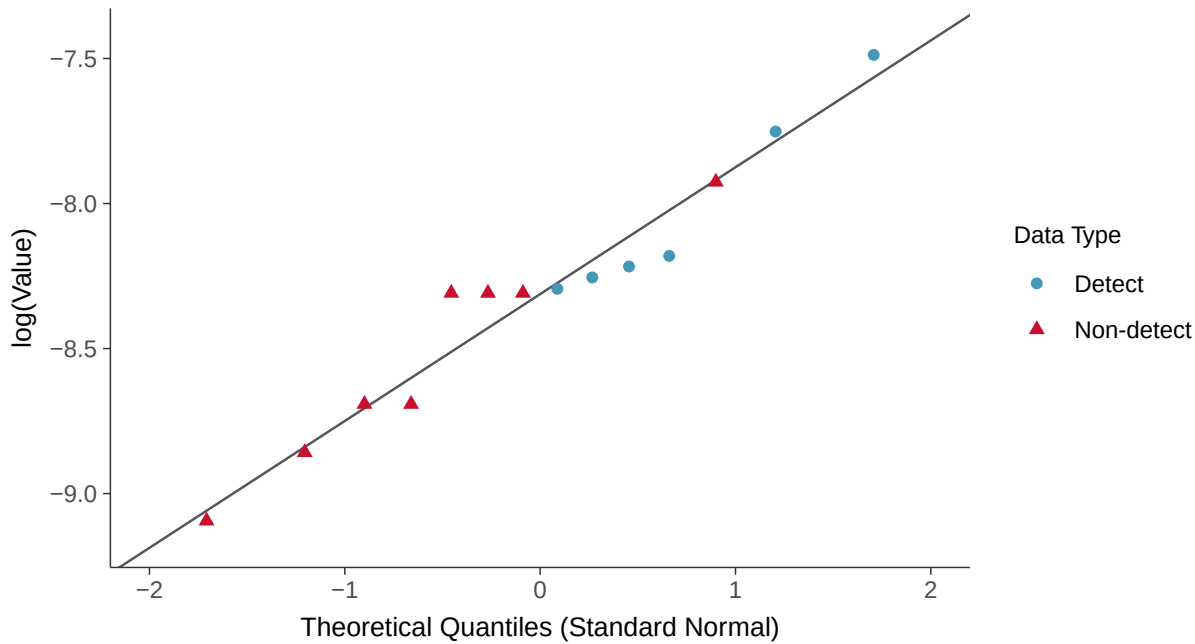






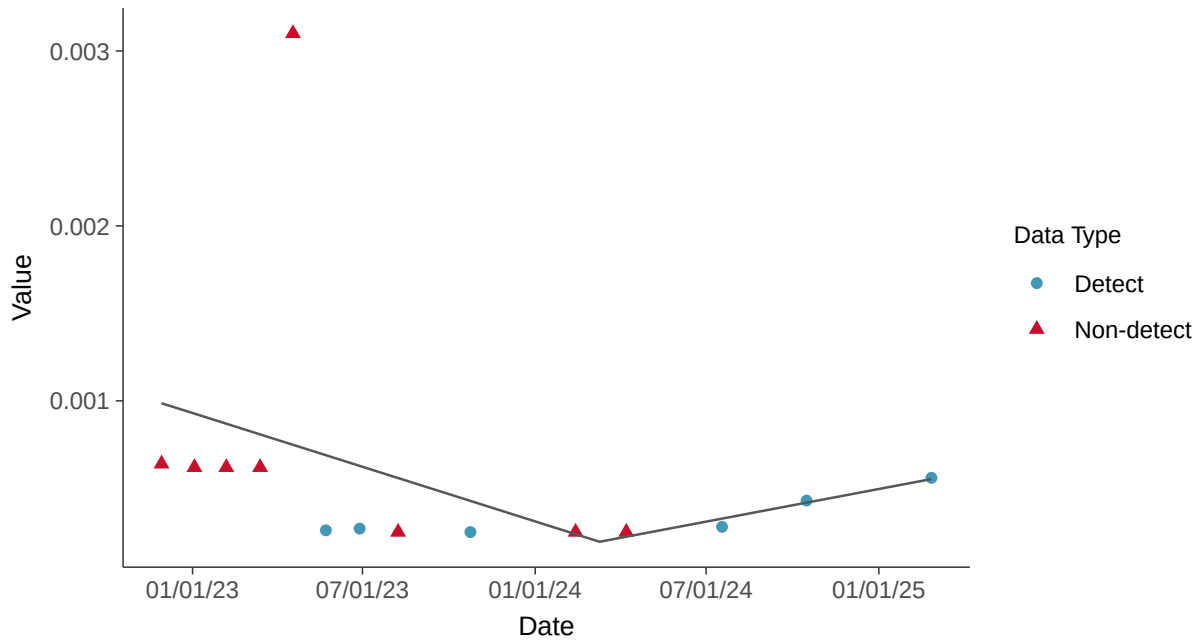
Lognormal Q-Q plot using ROS Imputed Estimates

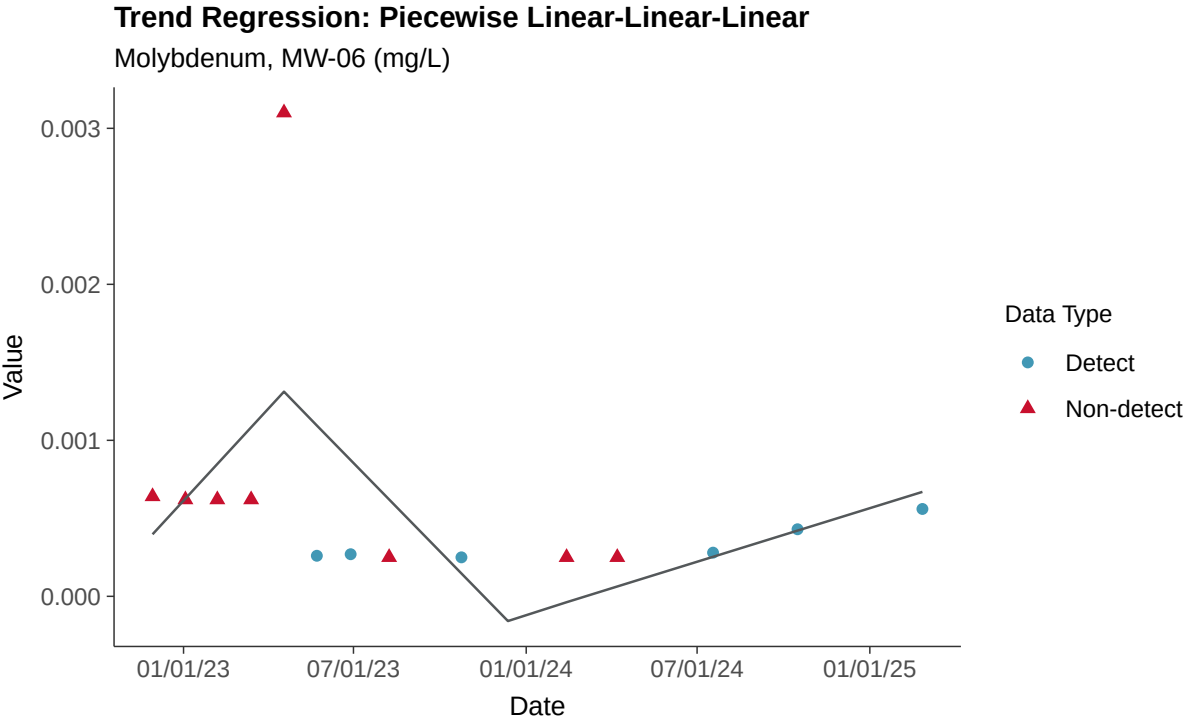
Molybdenum, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-06 (mg/L)





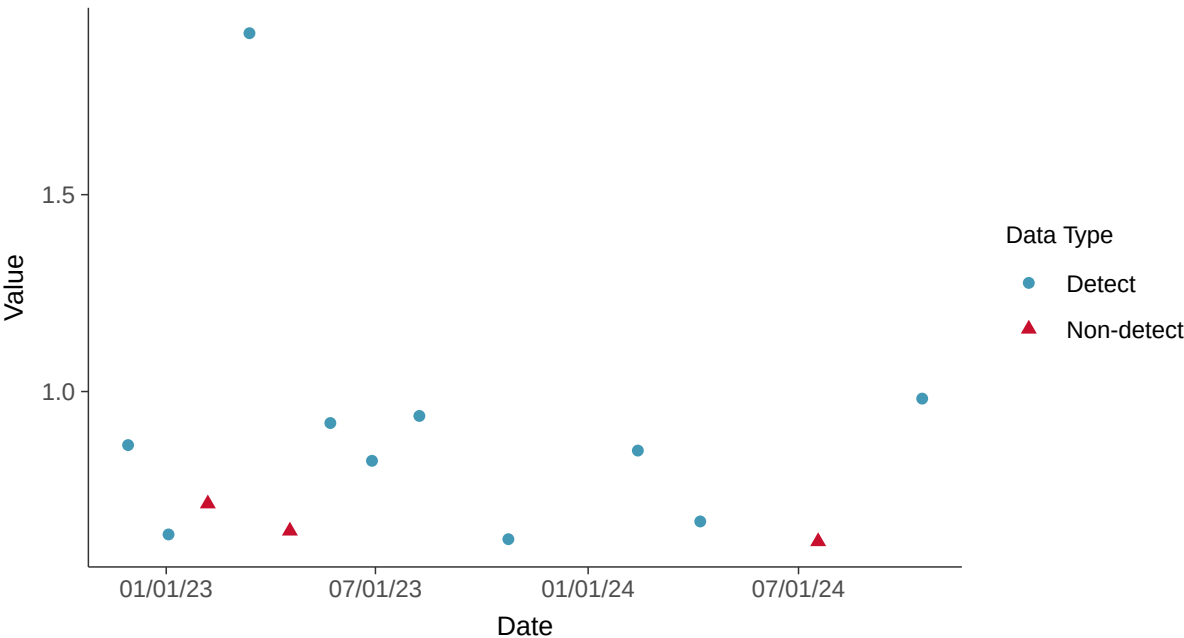


Appendix IV: Radium 226 and 228, MW-06

ID: 16_1_4_121

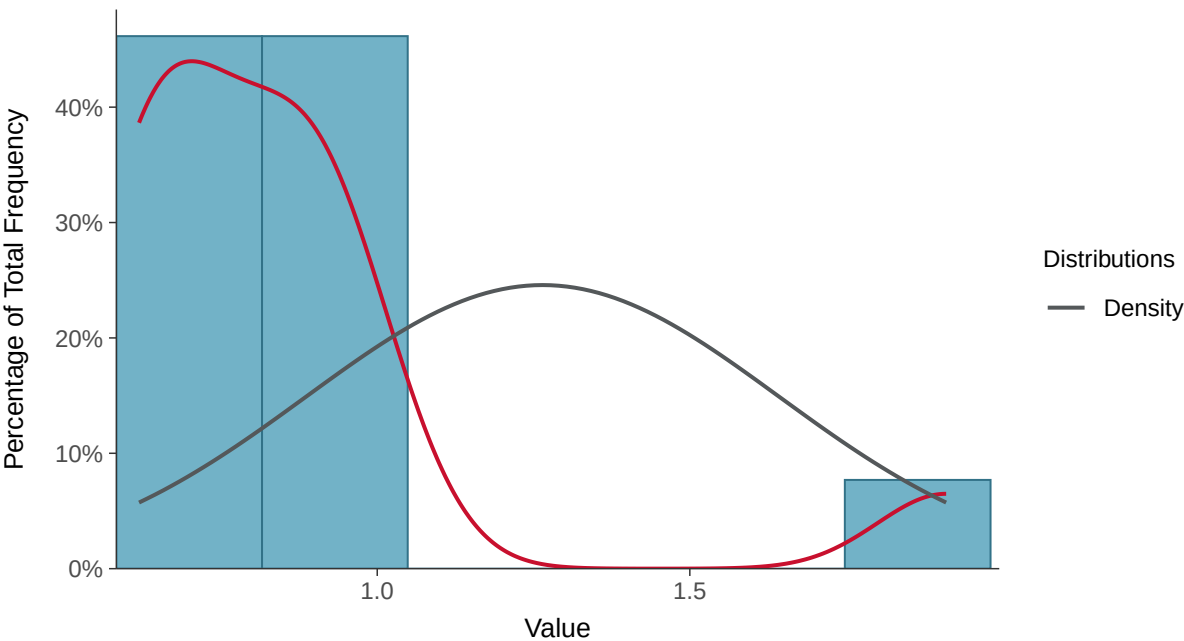
Scatter Plot

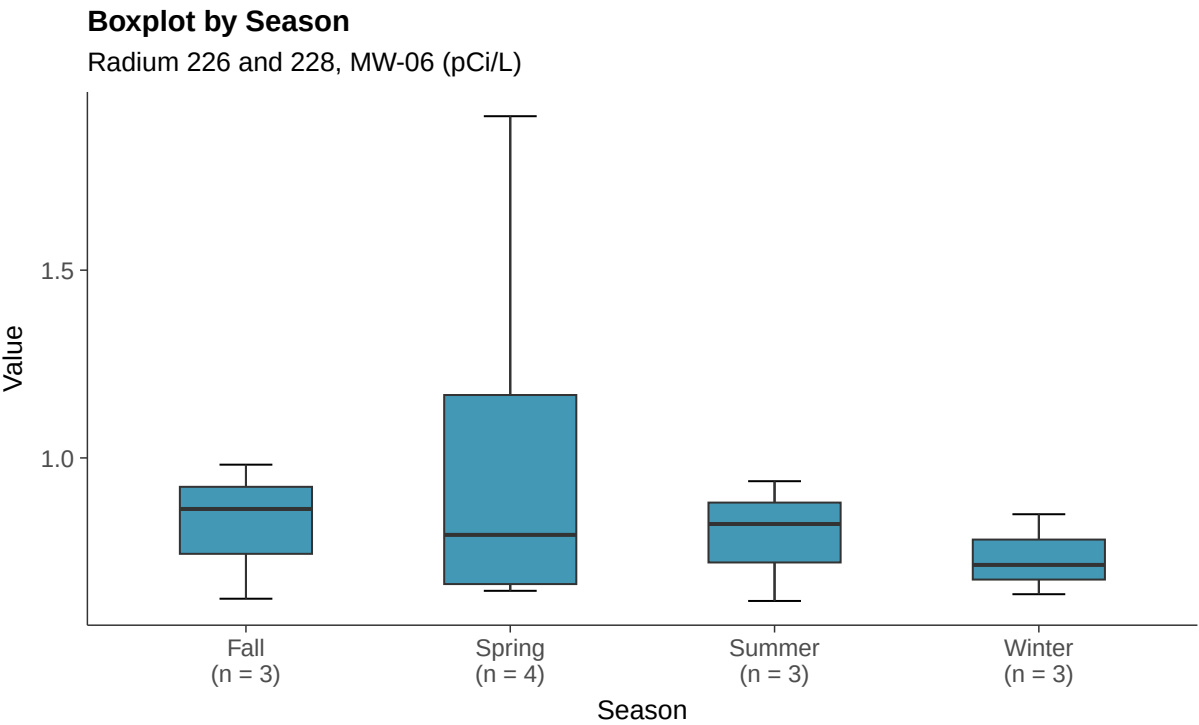
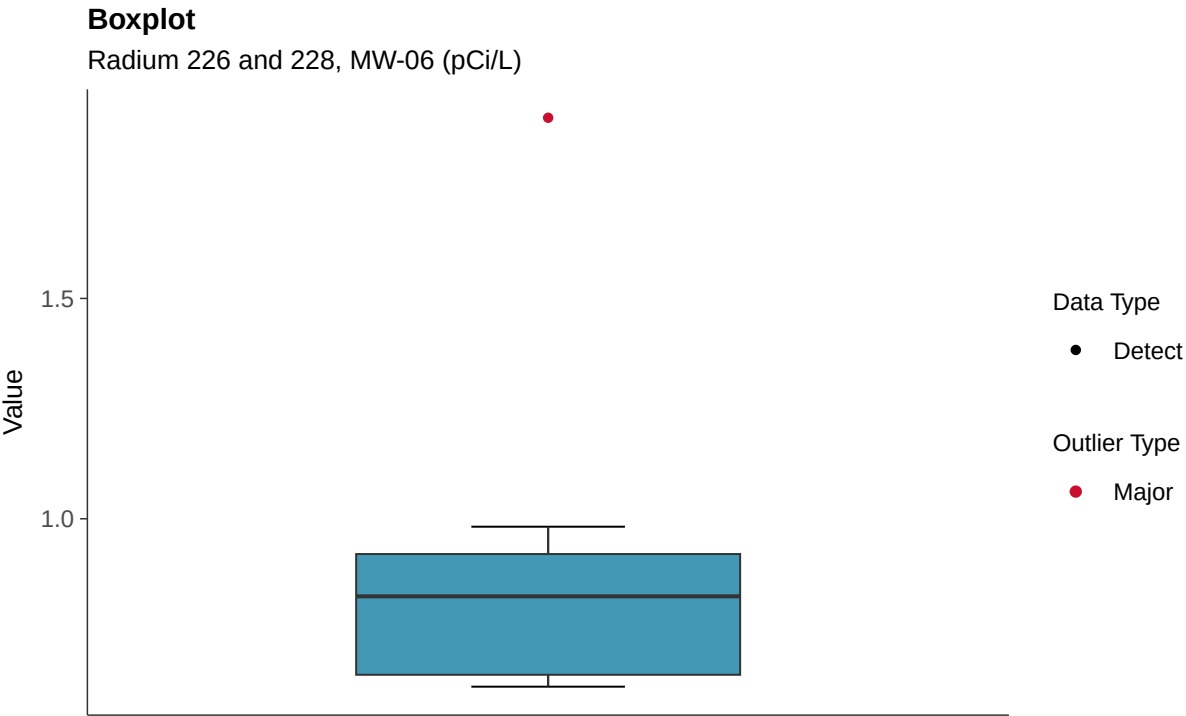
Radium 226 and 228, MW-06 (pCi/L)



Histogram

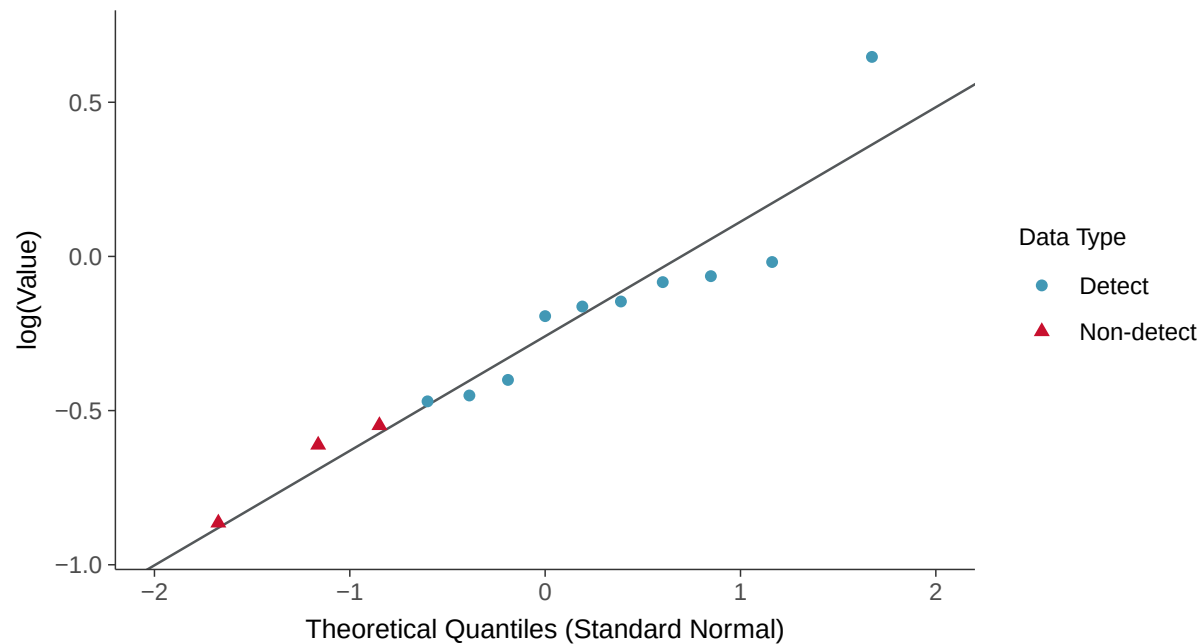
Radium 226 and 228, MW-06 (pCi/L)



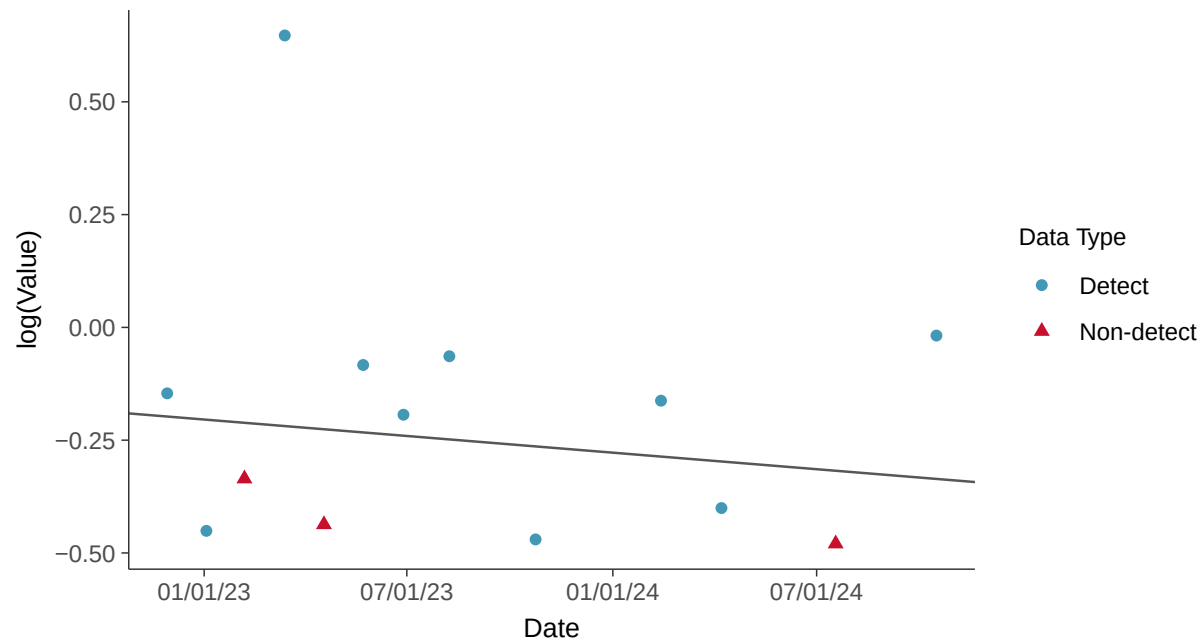




Lognormal Q-Q plot using ROS Imputed Estimates
Radium 226 and 228, MW-06 (pCi/L)



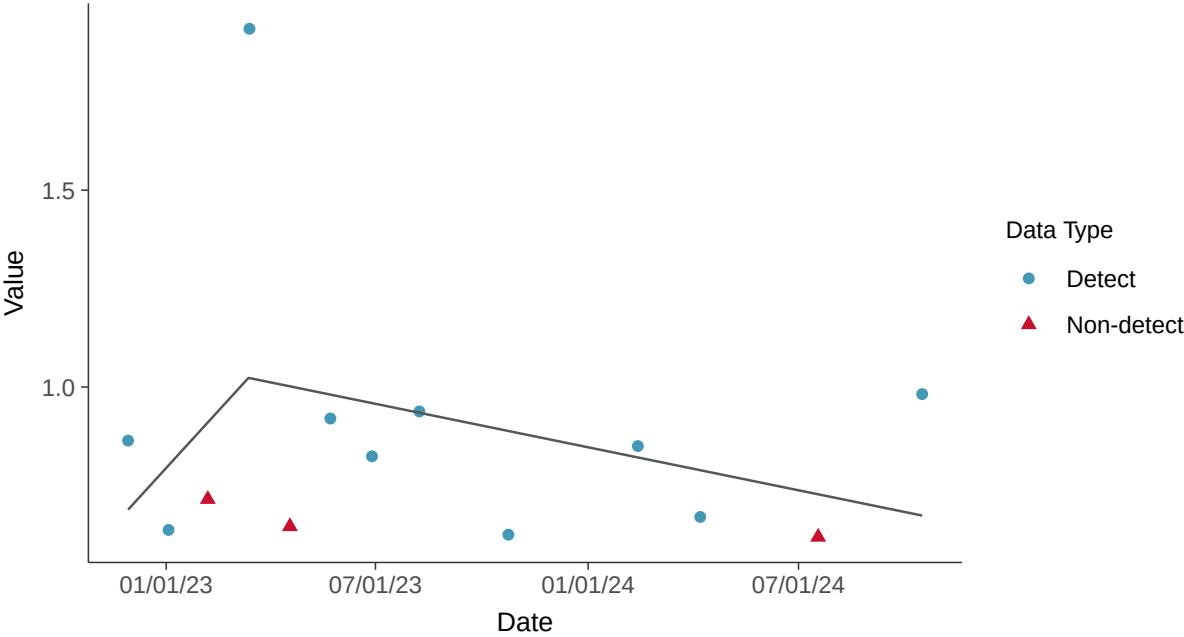
Trend Regression: Lognormal MLE
Radium 226 and 228, MW-06 (pCi/L)





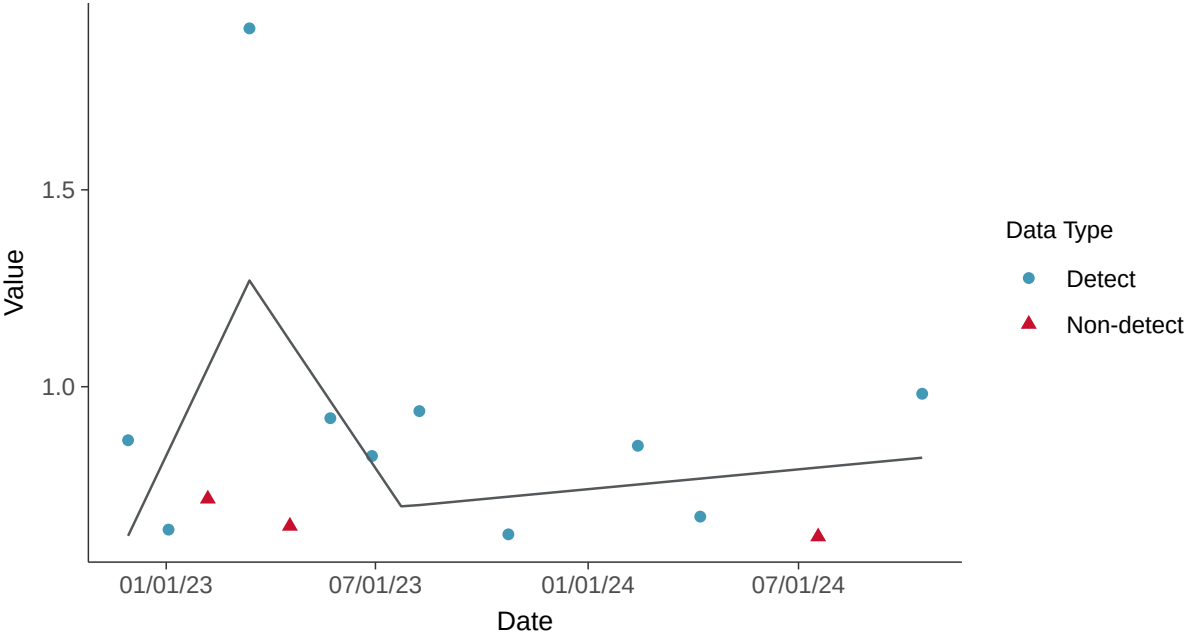
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-06 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

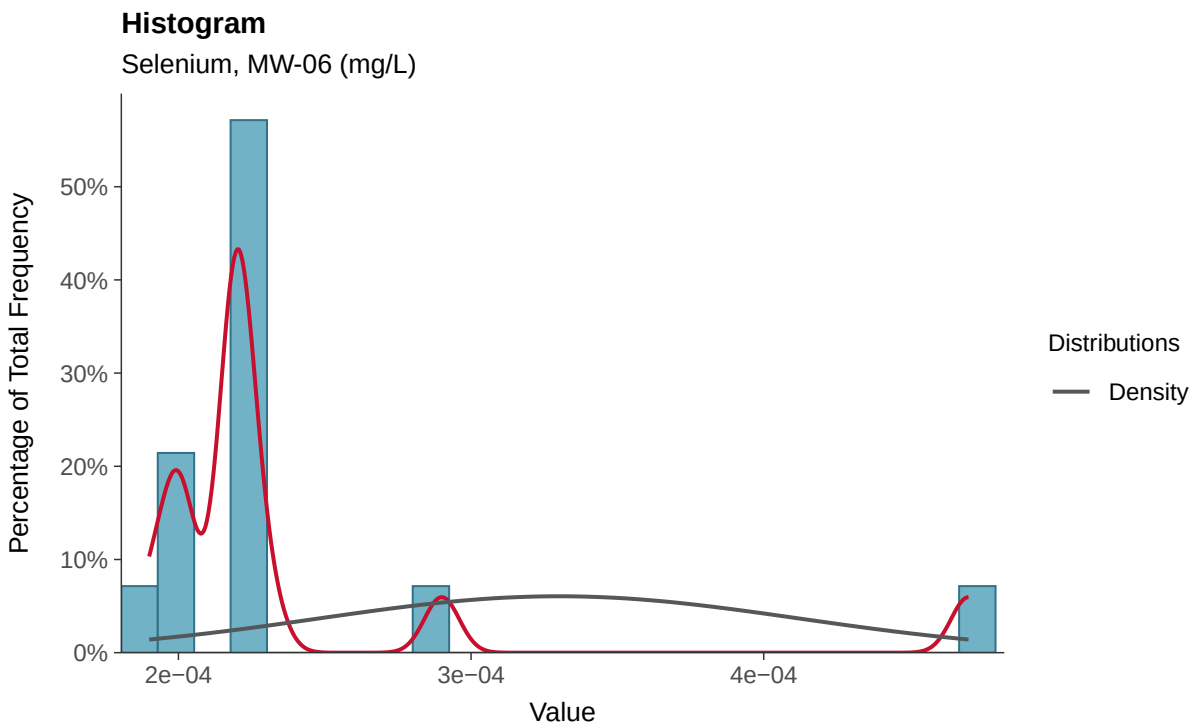
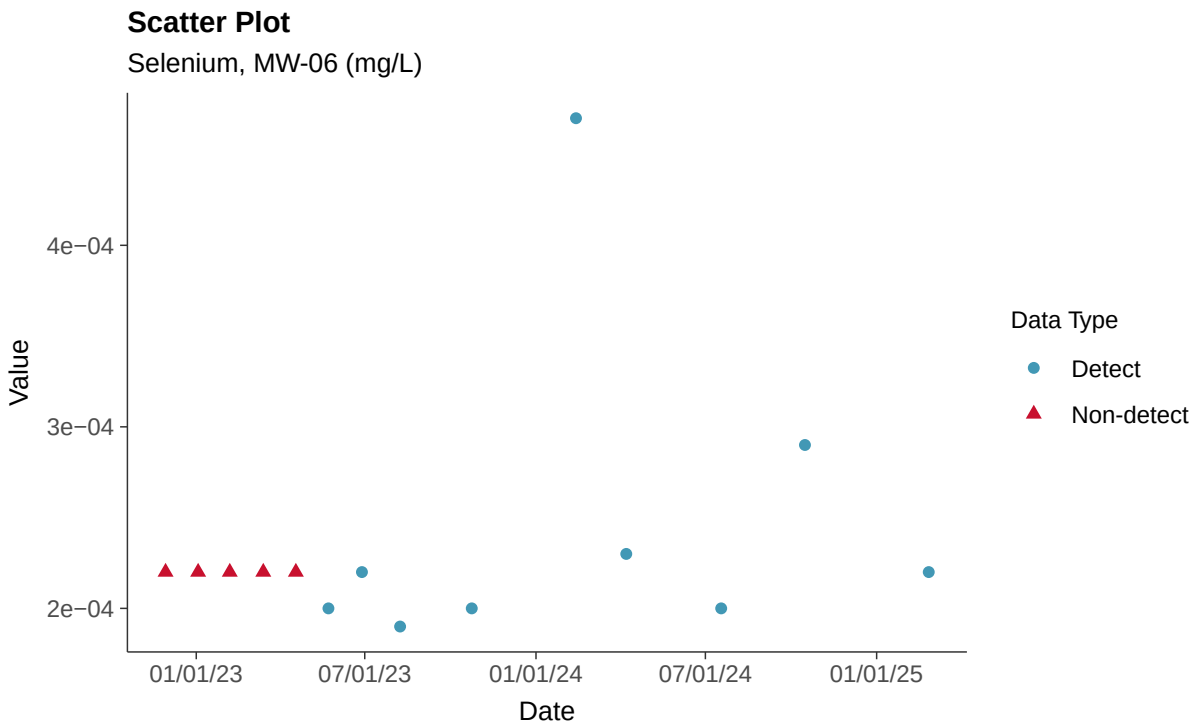
Radium 226 and 228, MW-06 (pCi/L)

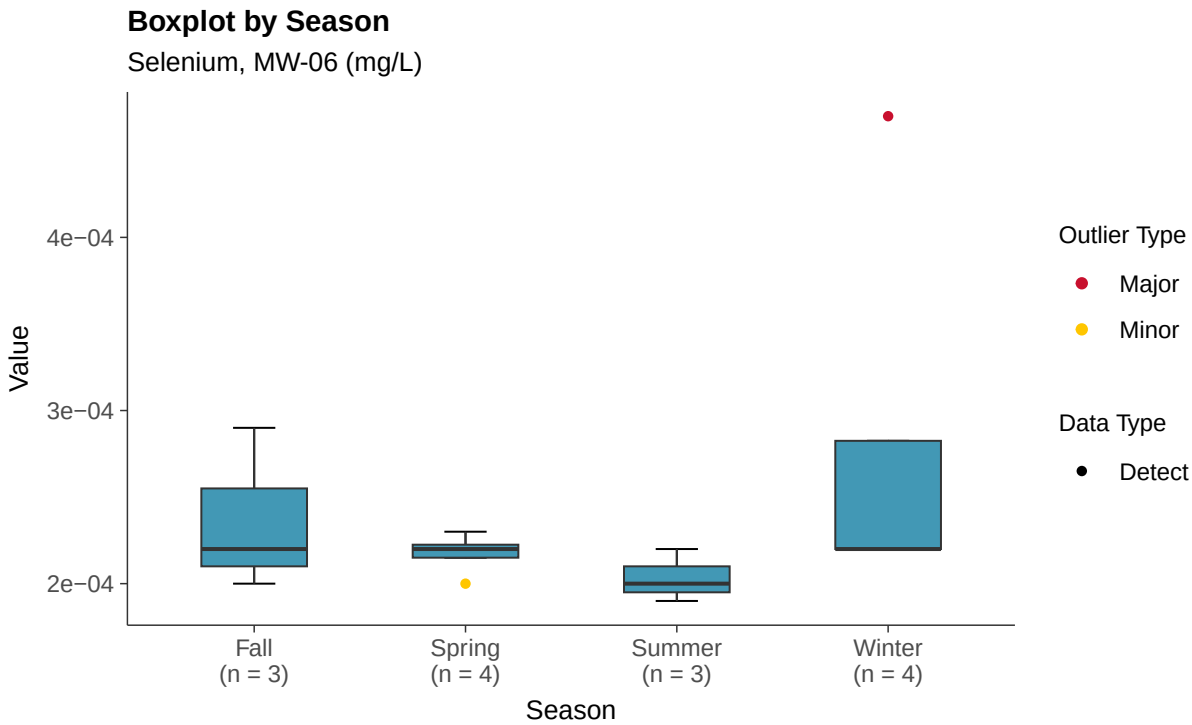
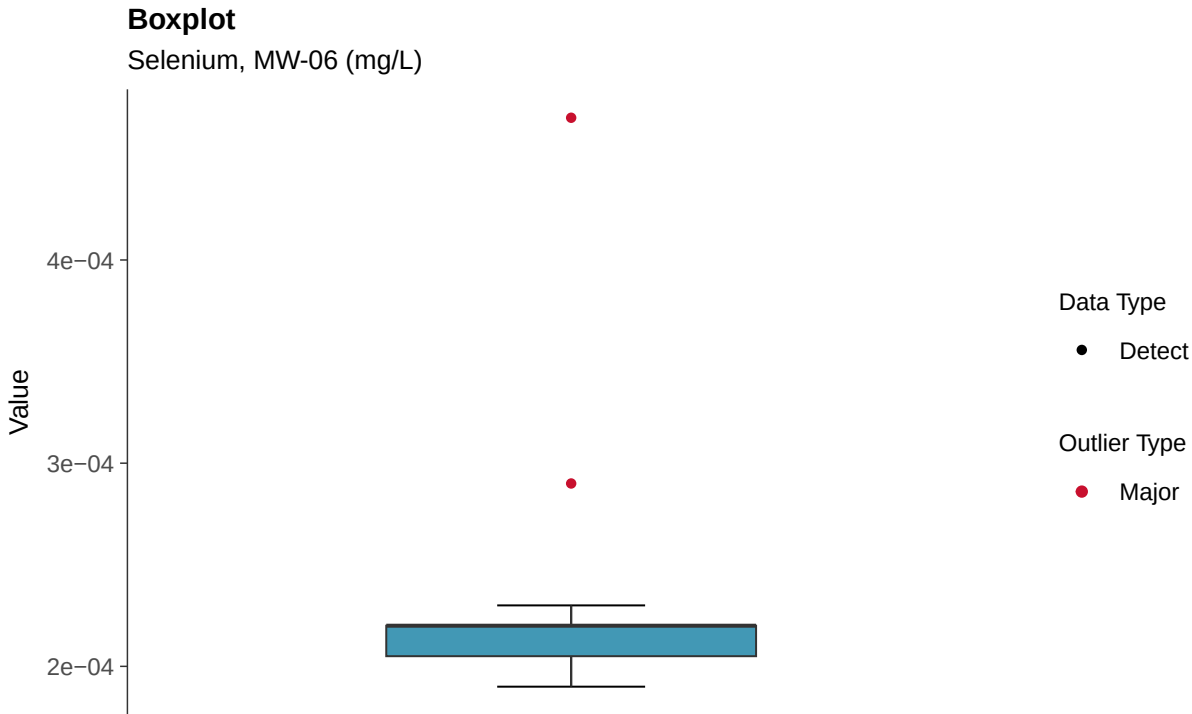




Appendix IV: Selenium, MW-06

ID: 16_1_4_122

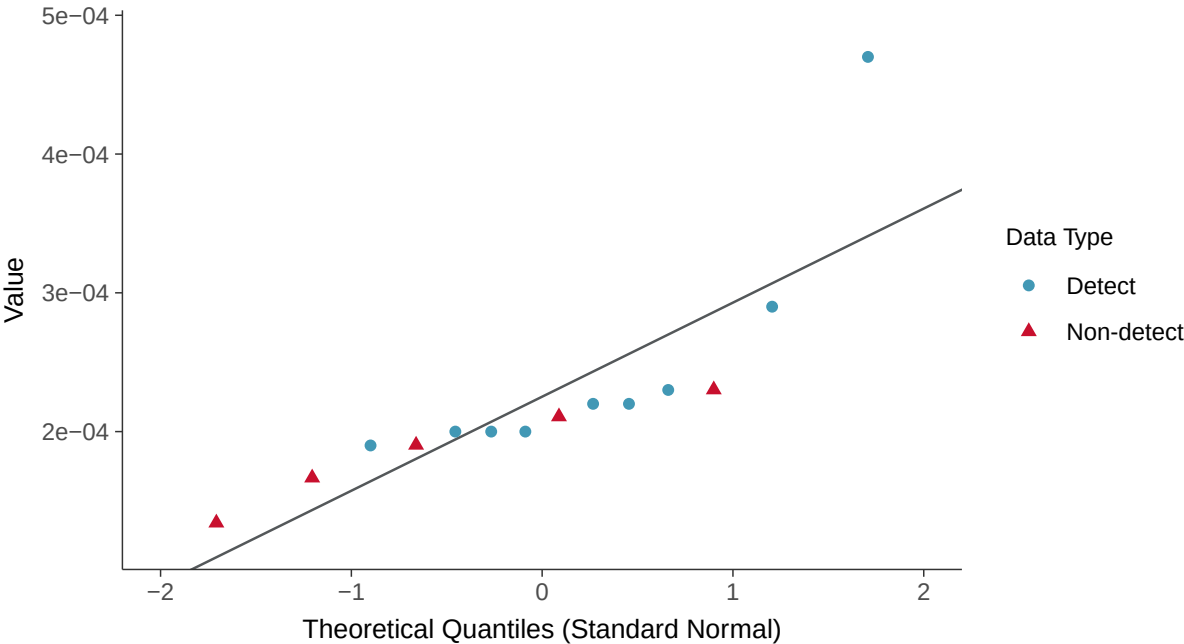






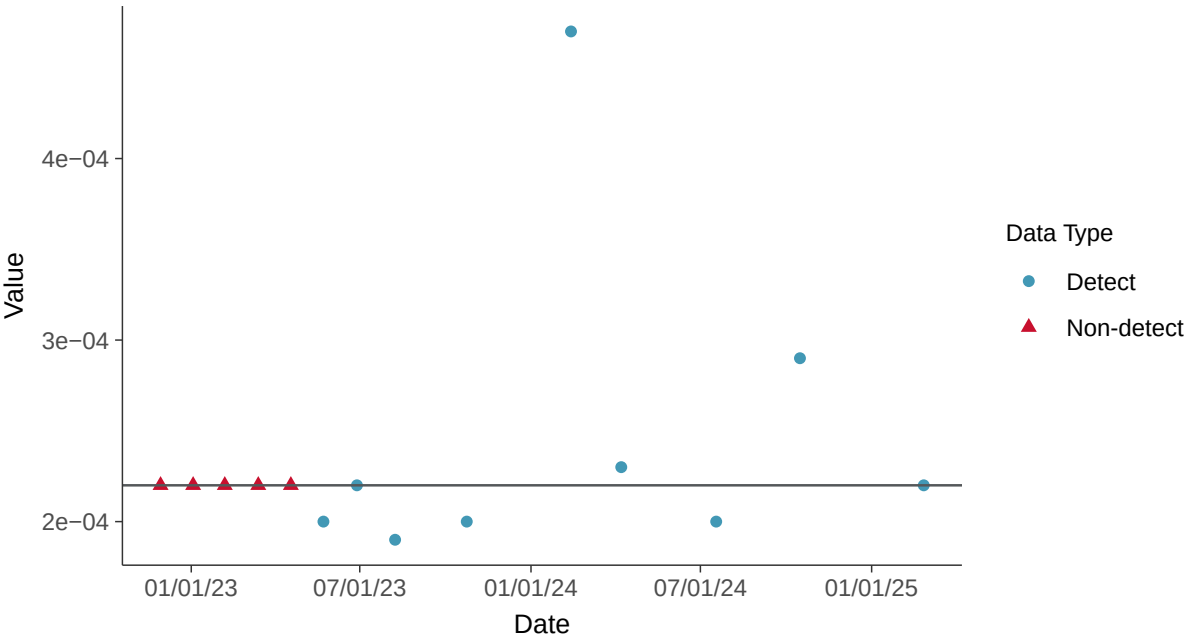
Normal Q-Q plot using ROS Imputed Estimates

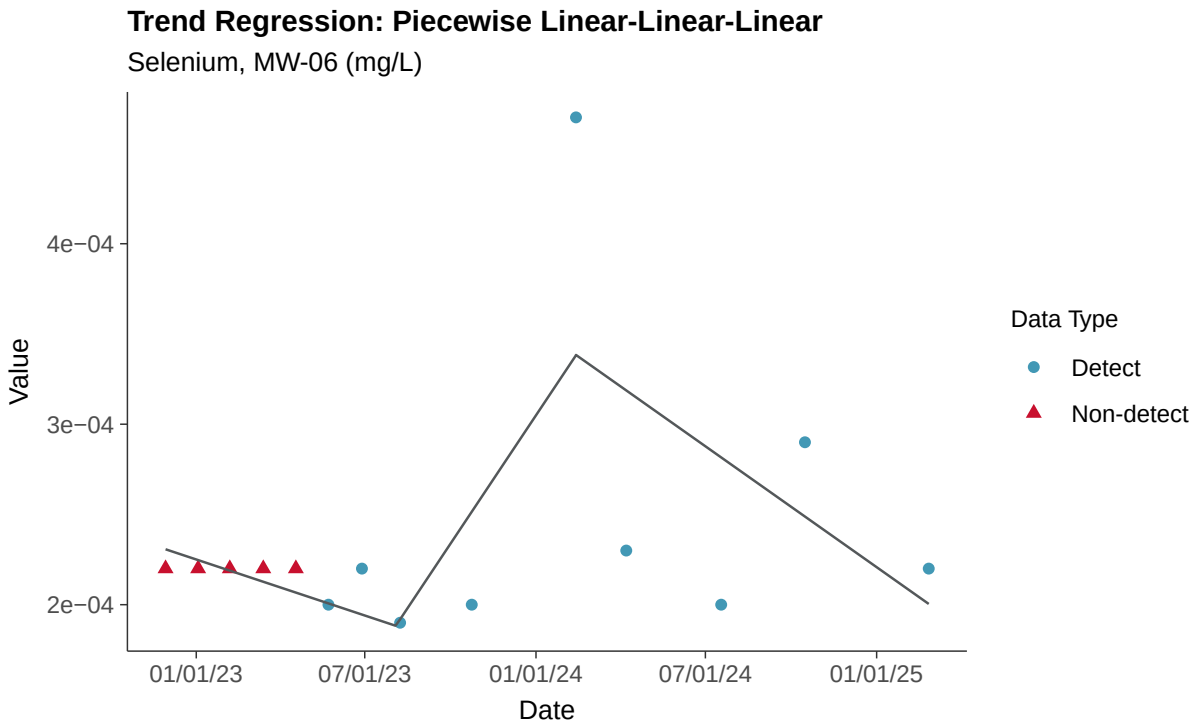
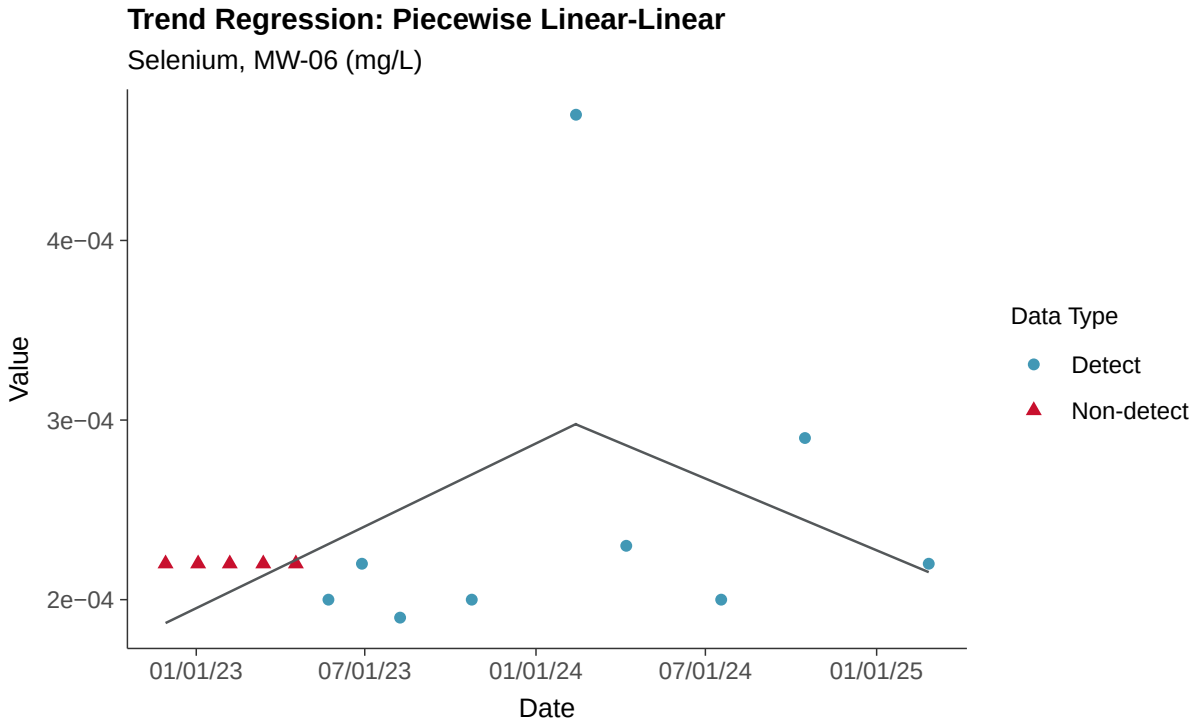
Selenium, MW-06 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-06 (mg/L)

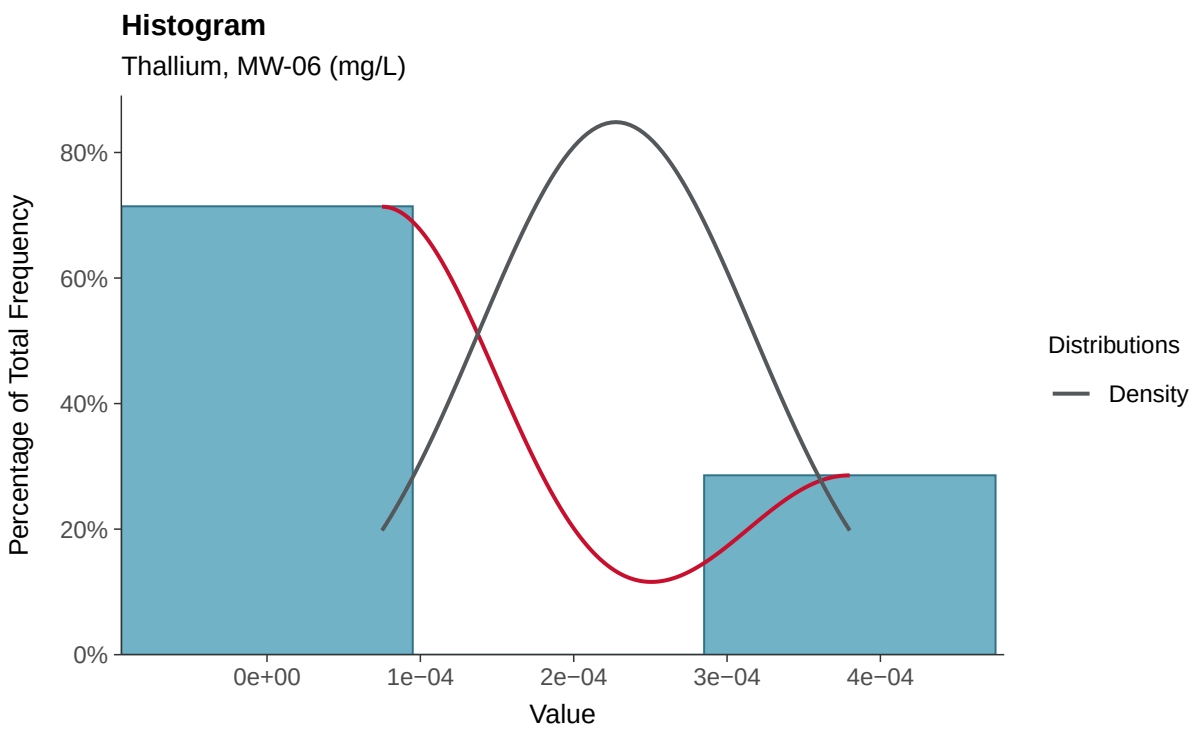
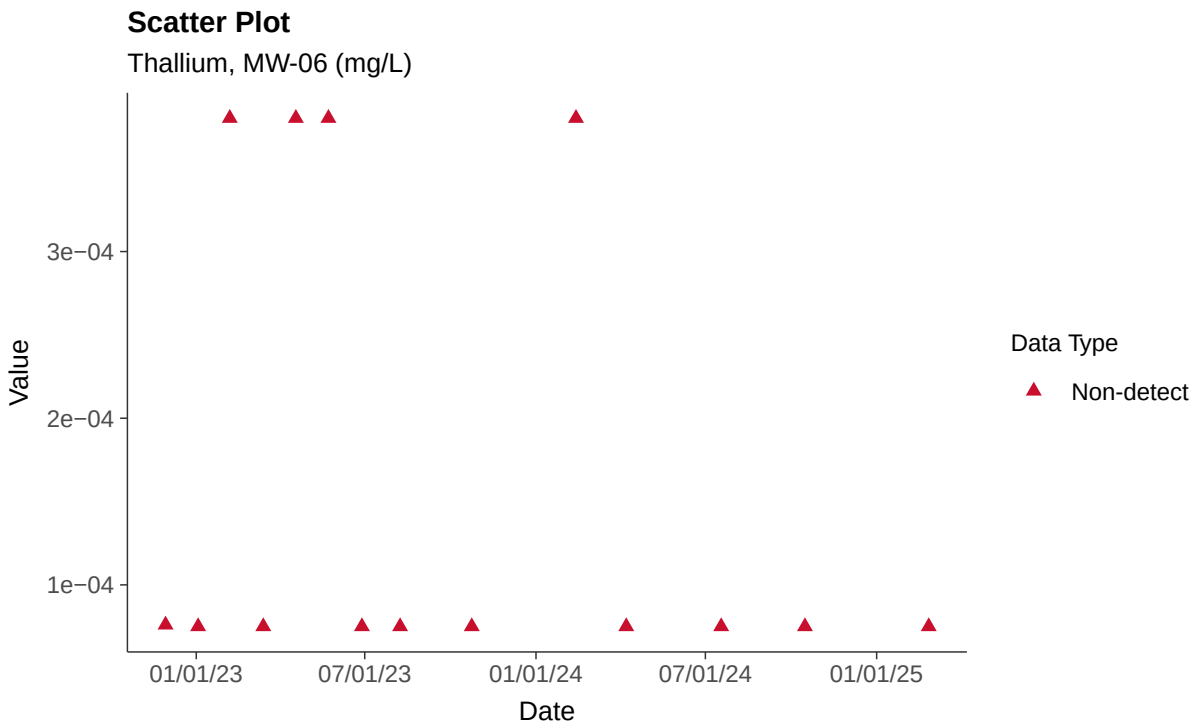


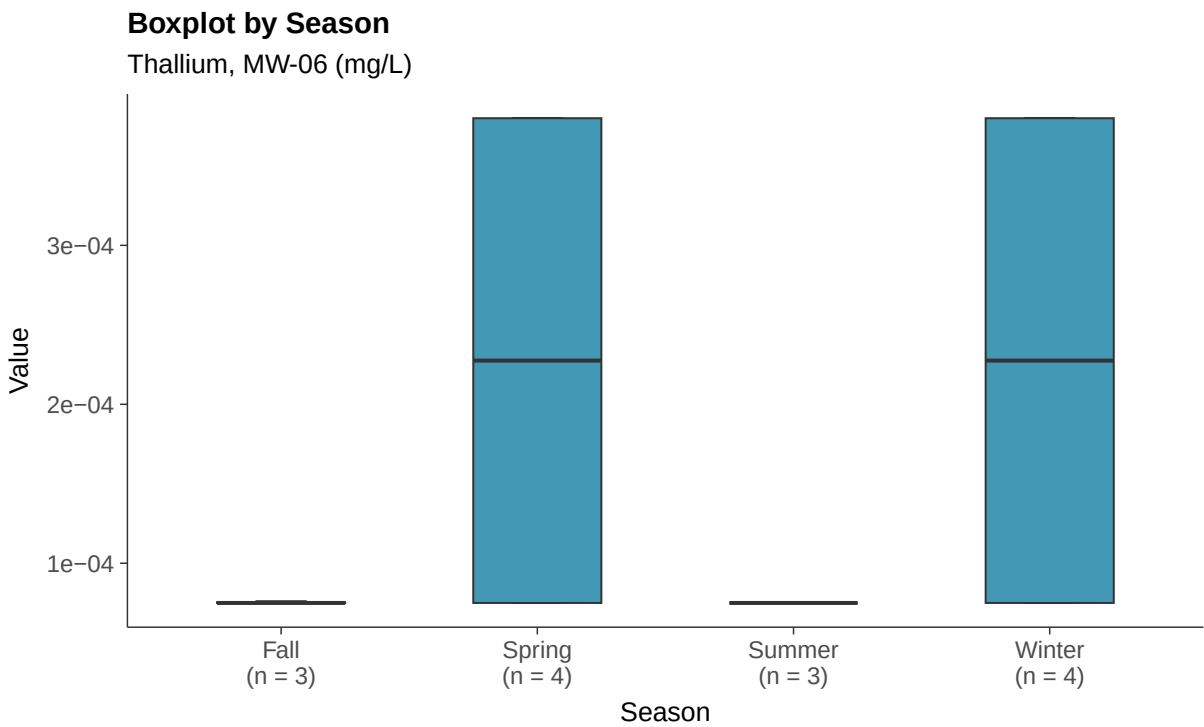
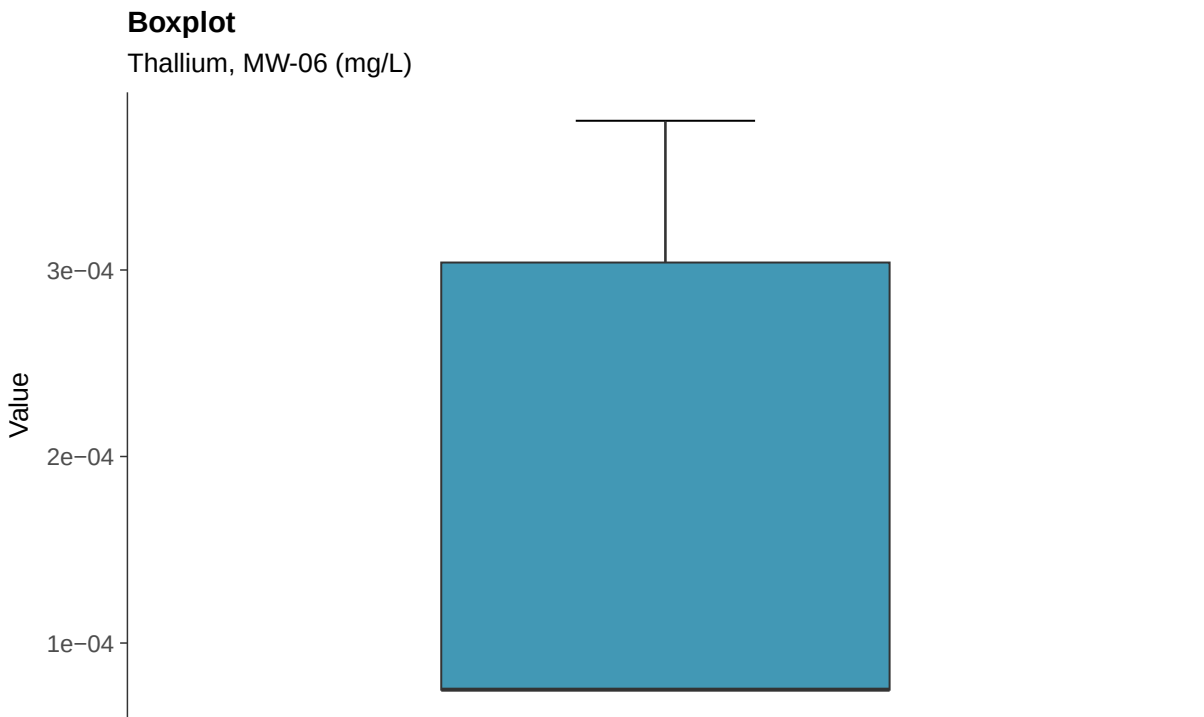


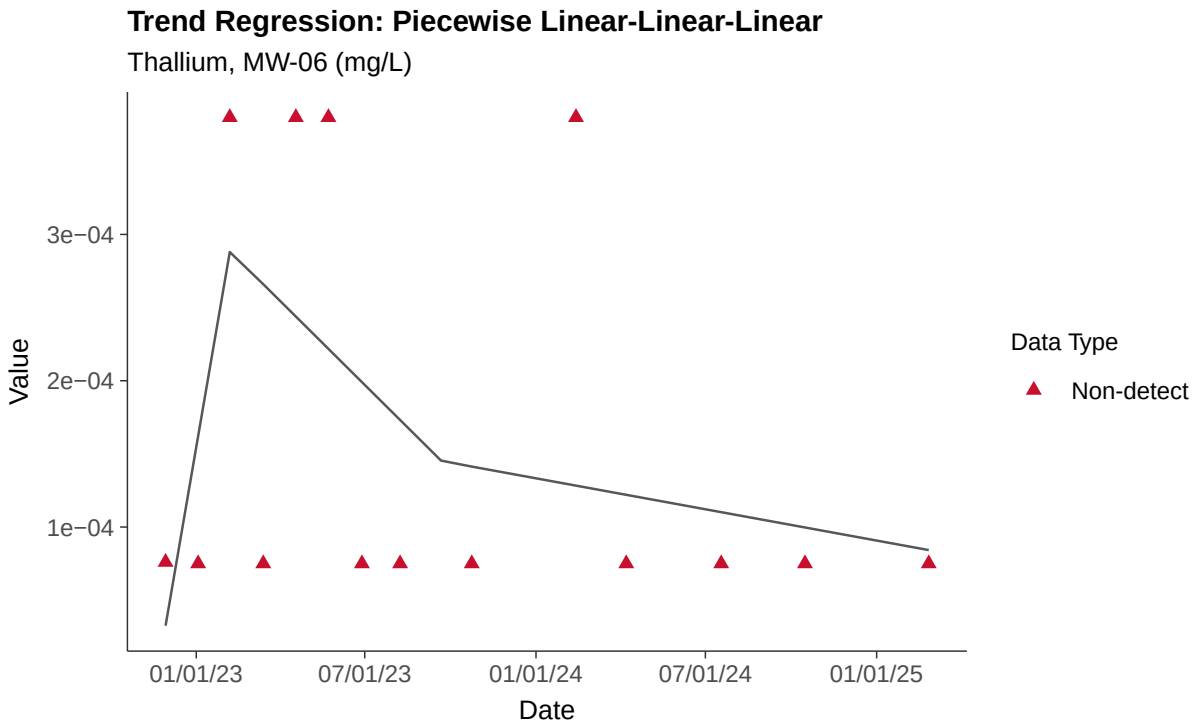
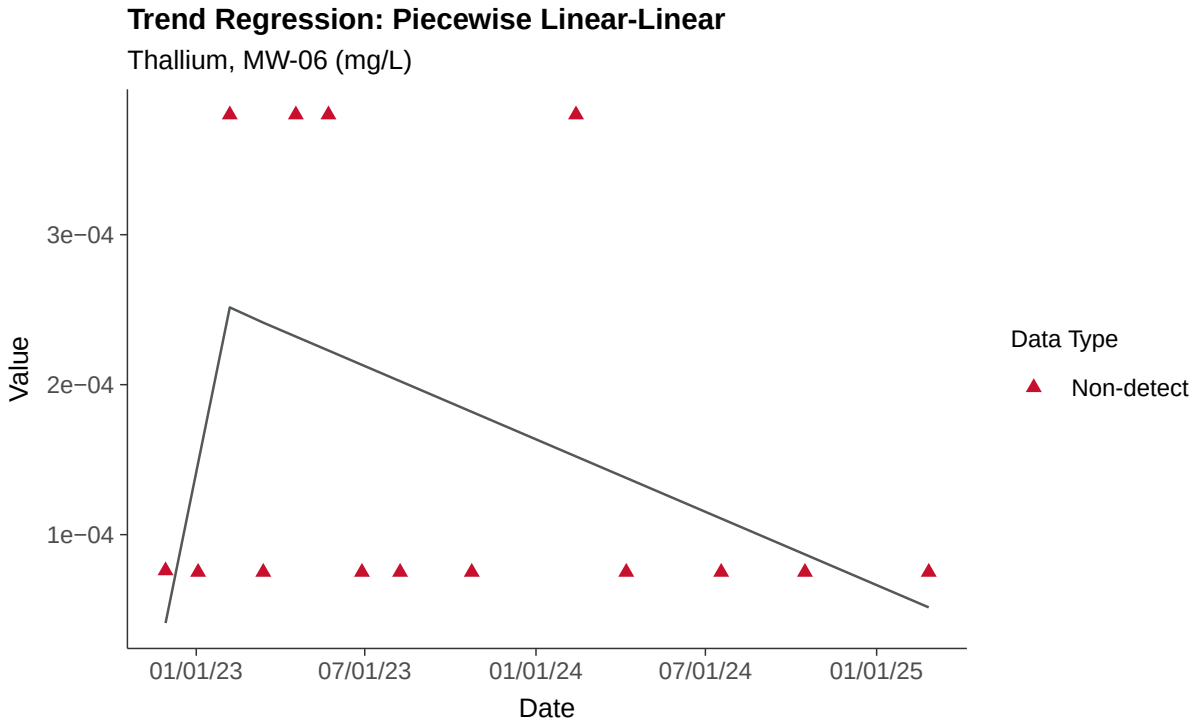


Appendix IV: Thallium, MW-06

ID: 16_1_4_125



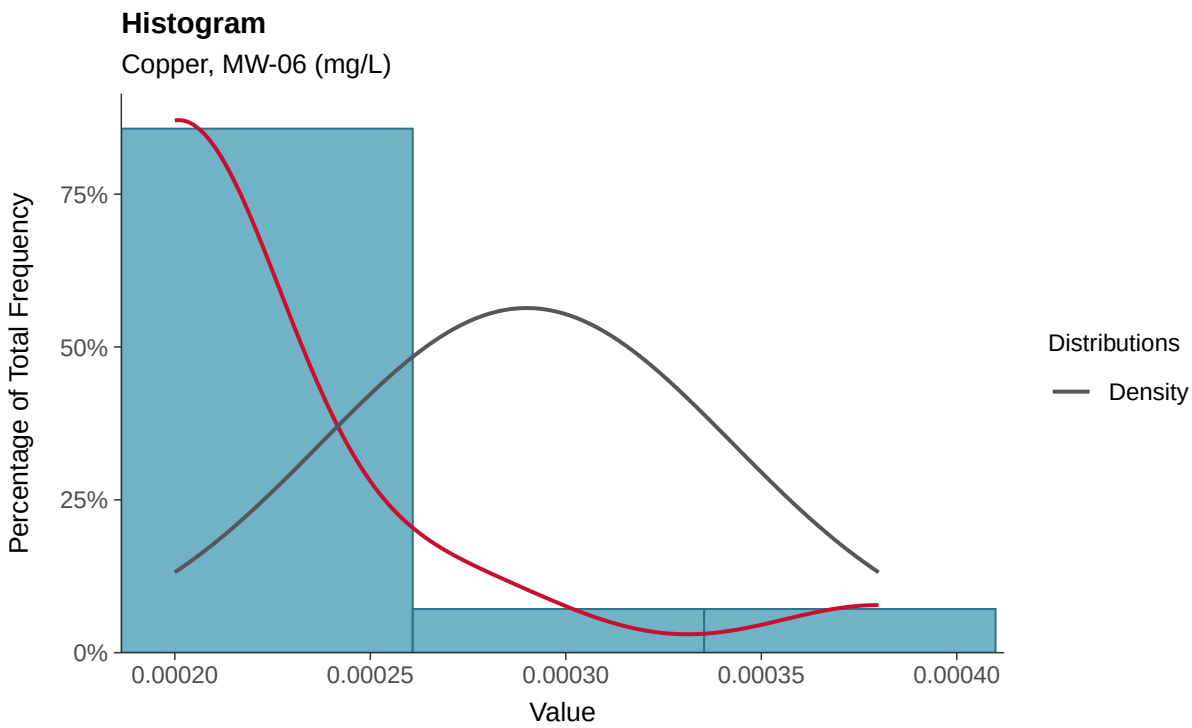
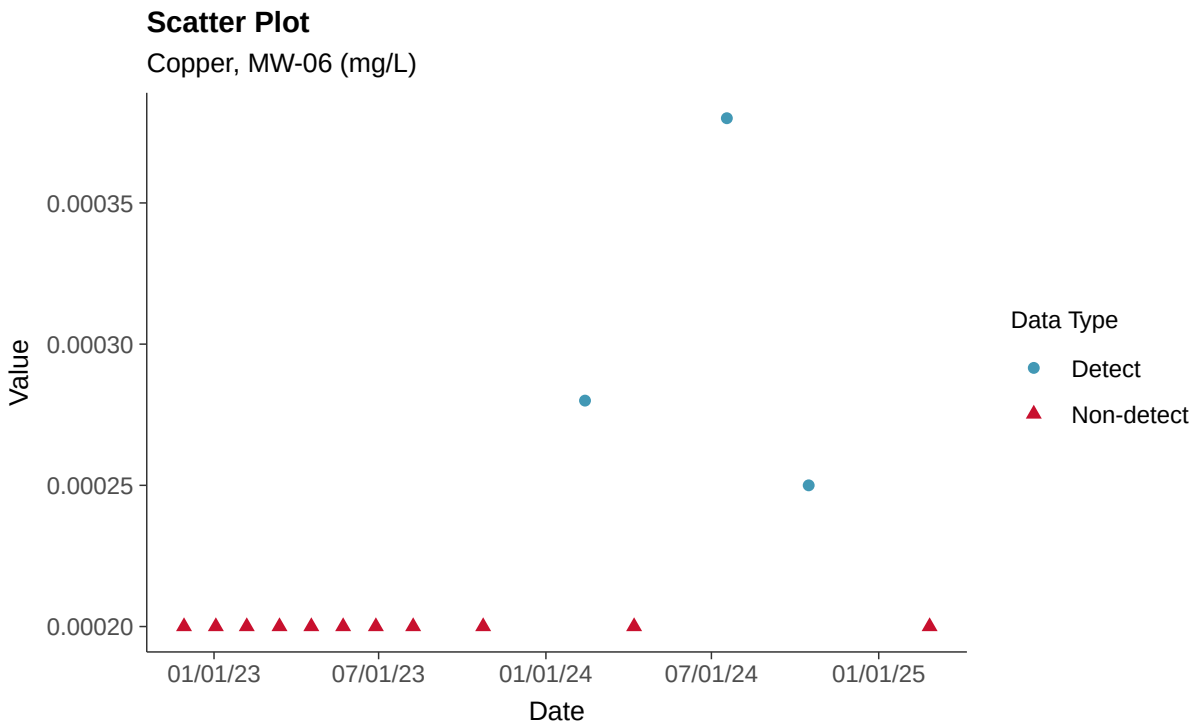


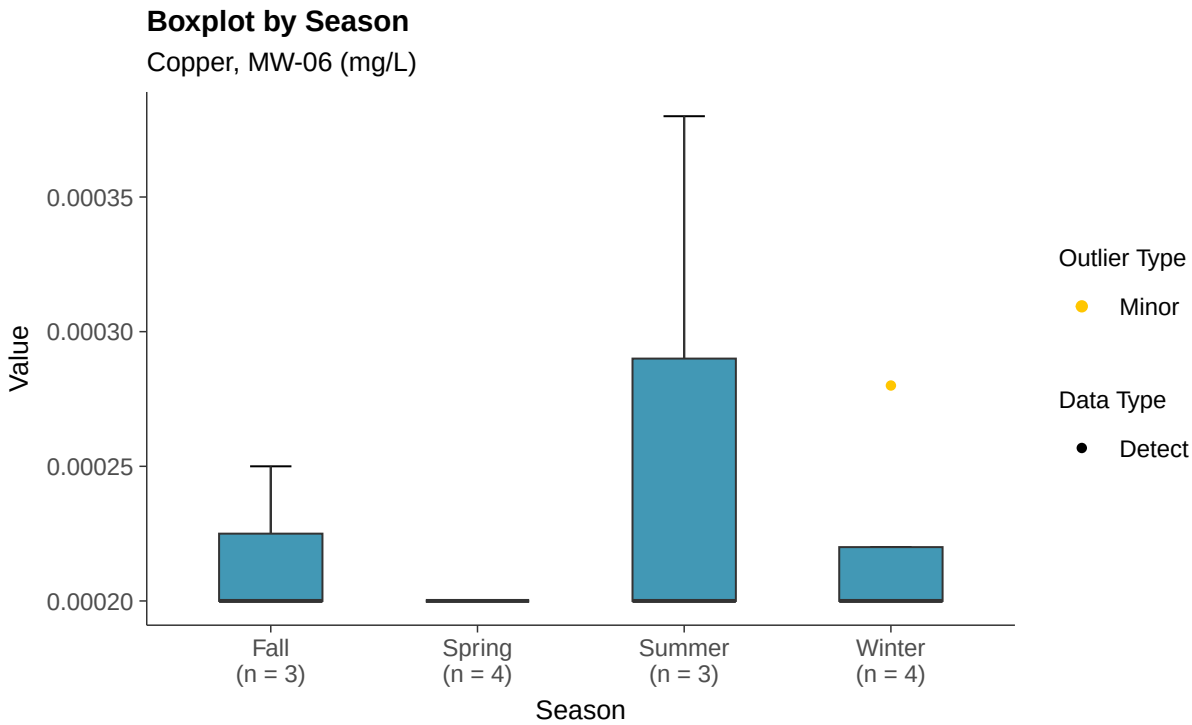
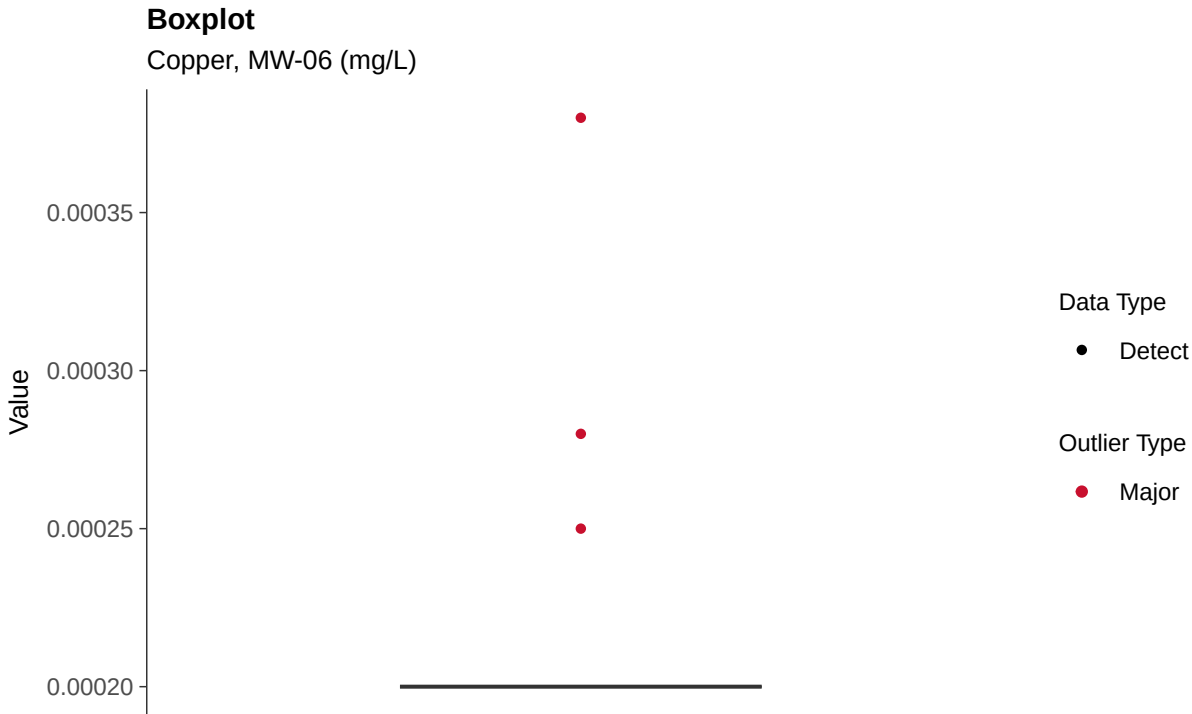




Part 115: Copper, MW-06

ID: 16_1_5_111

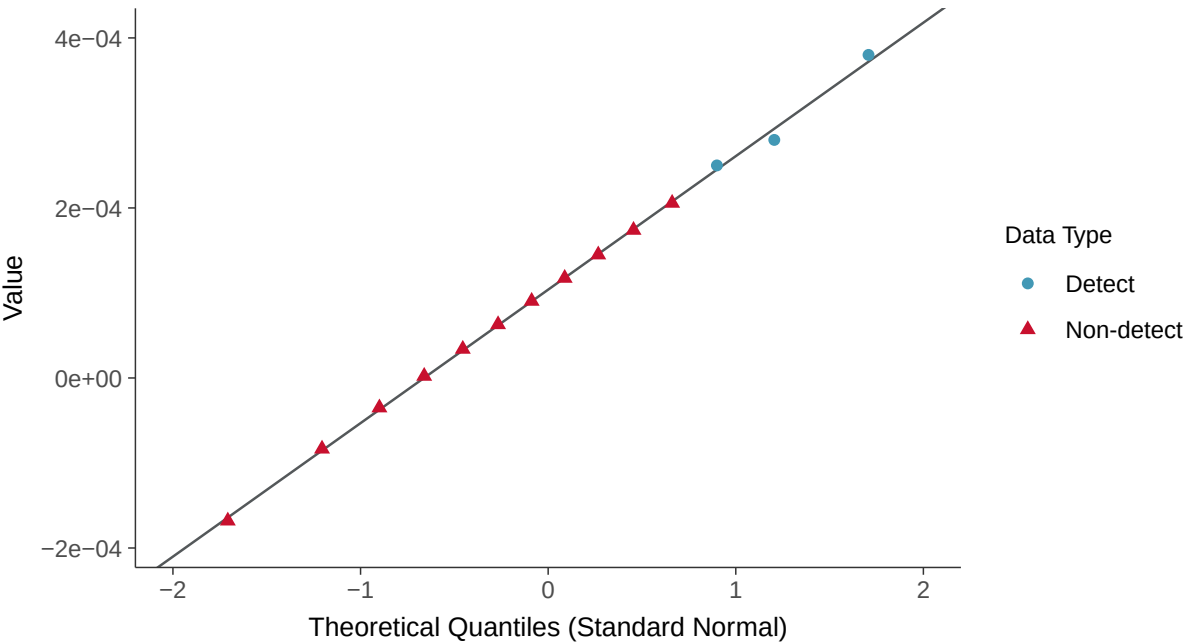






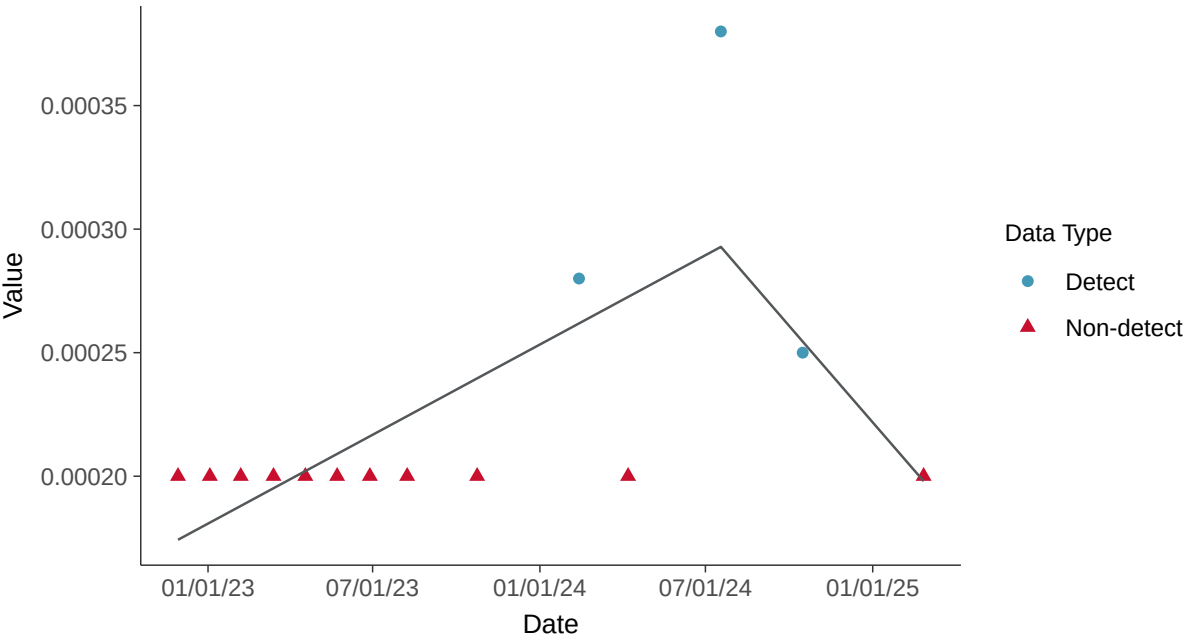
Normal Q-Q plot using ROS Imputed Estimates

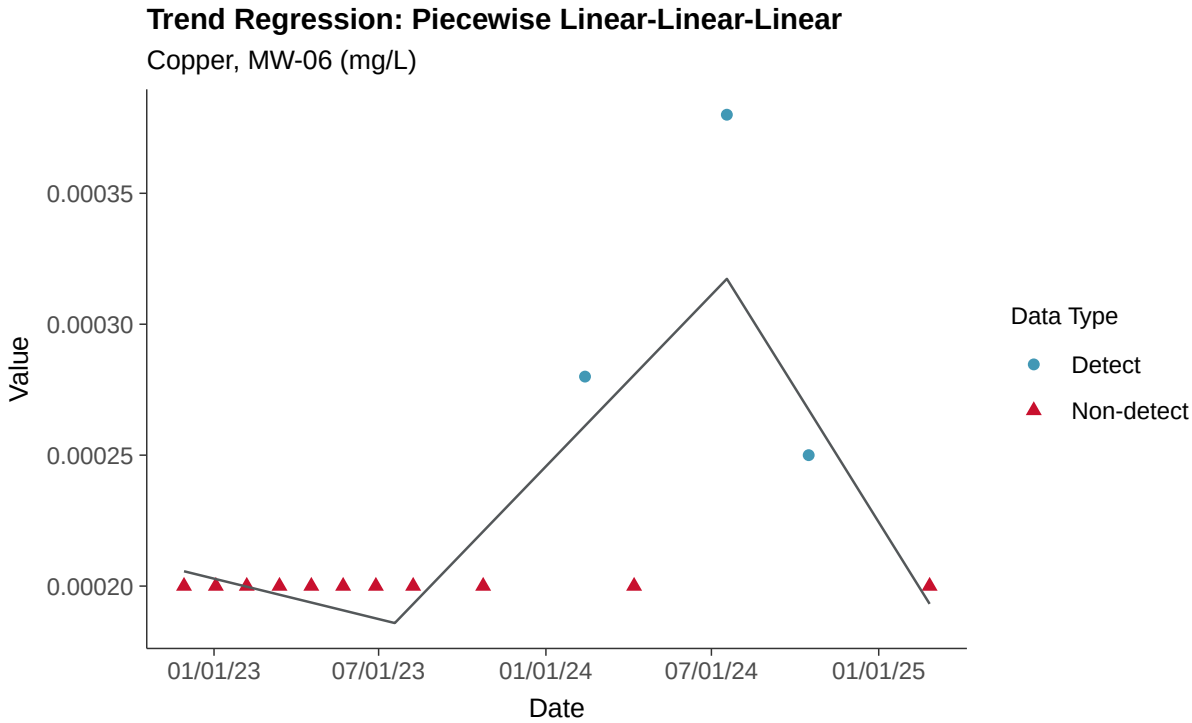
Copper, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-06 (mg/L)

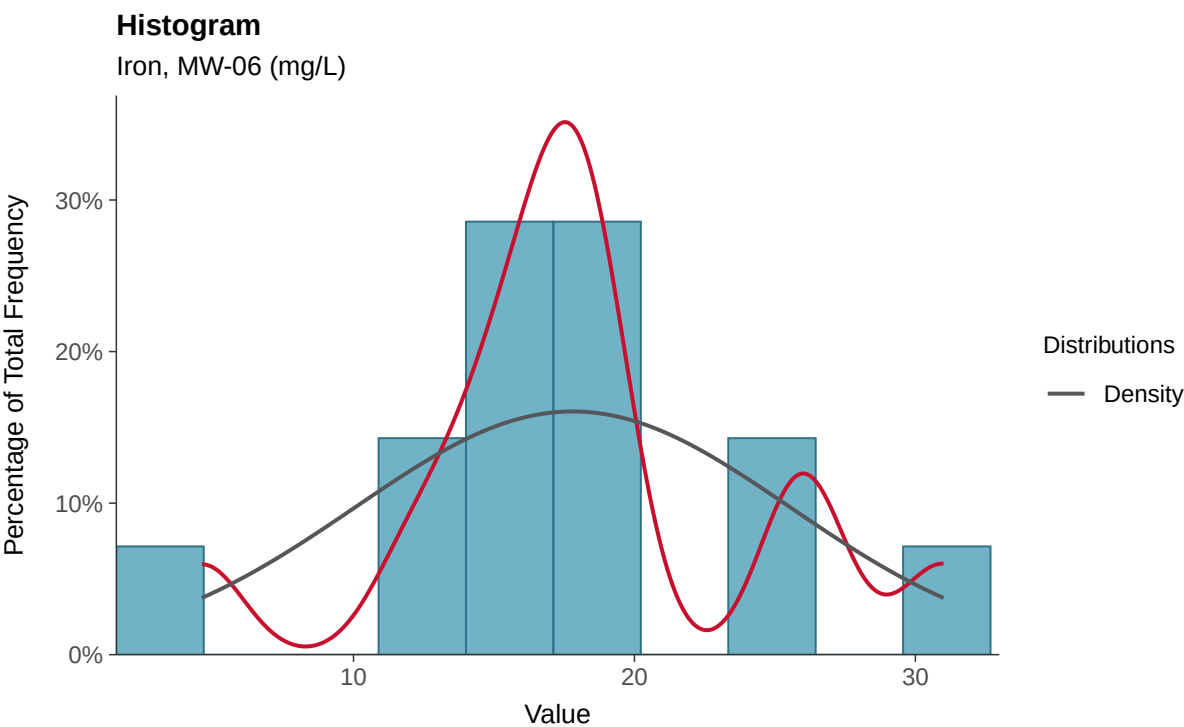
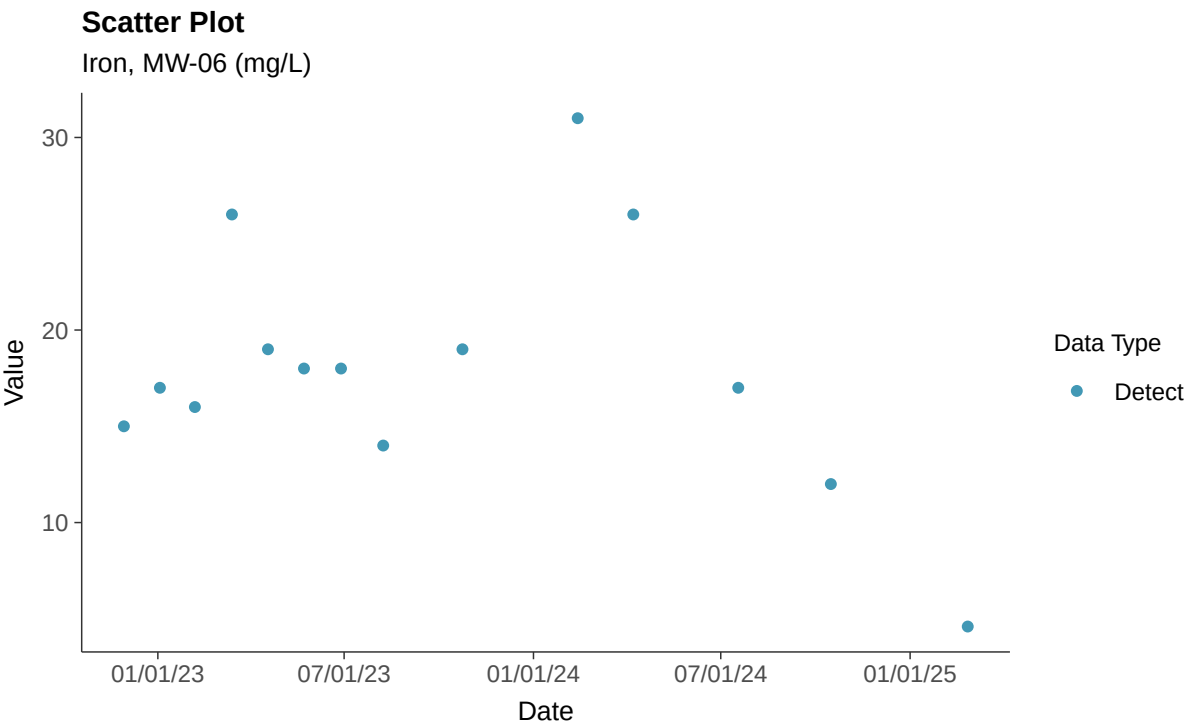


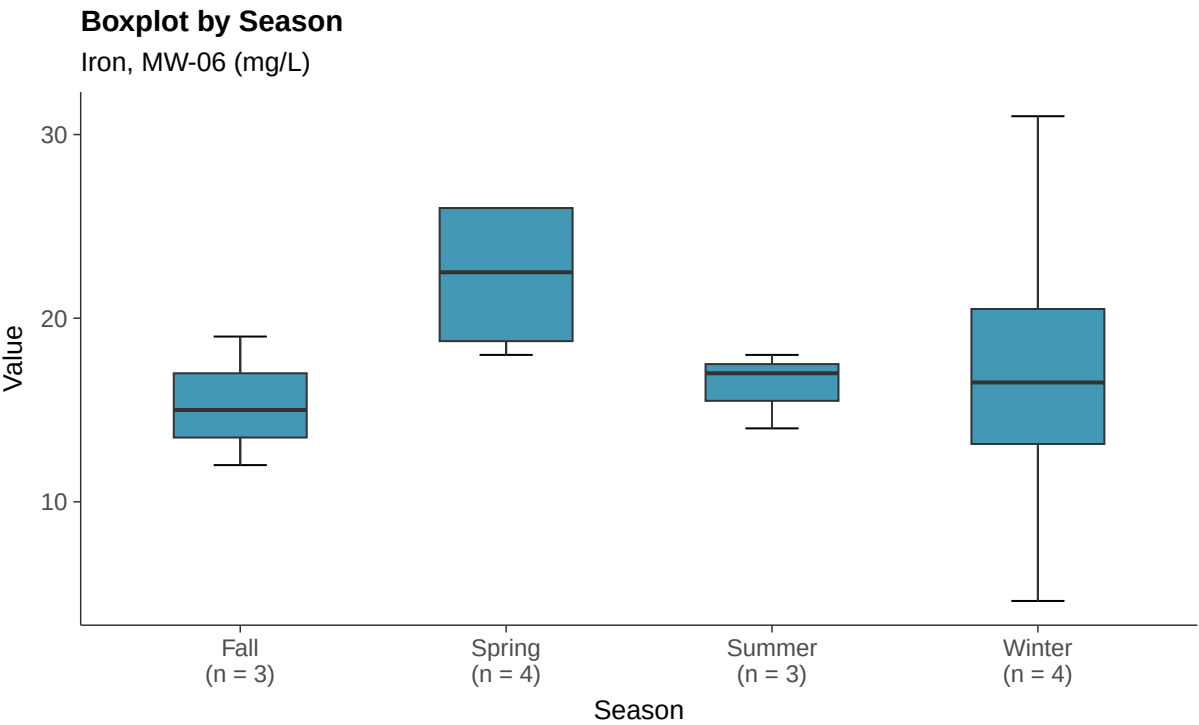
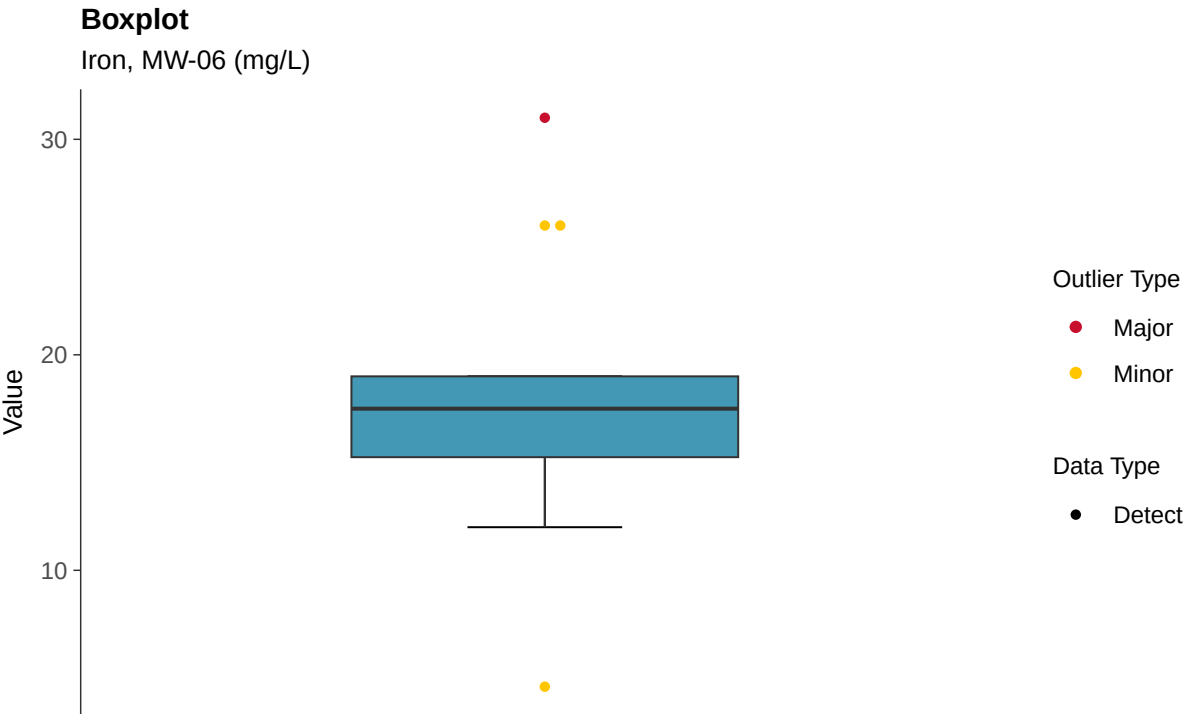


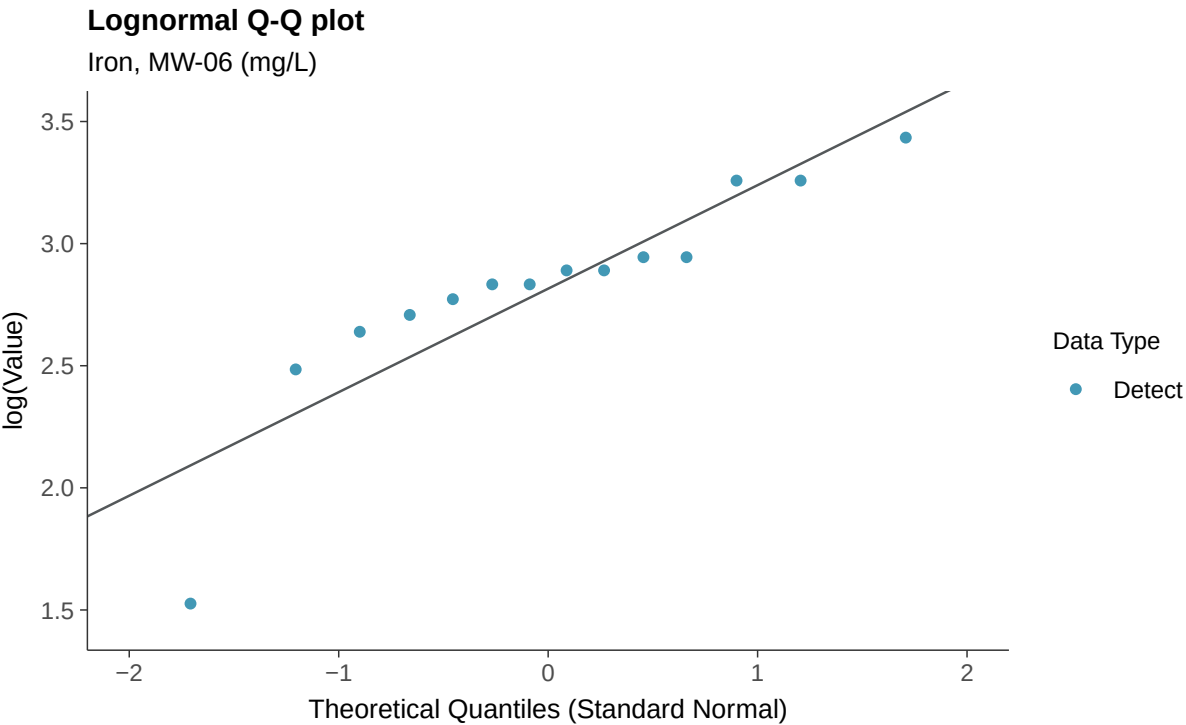
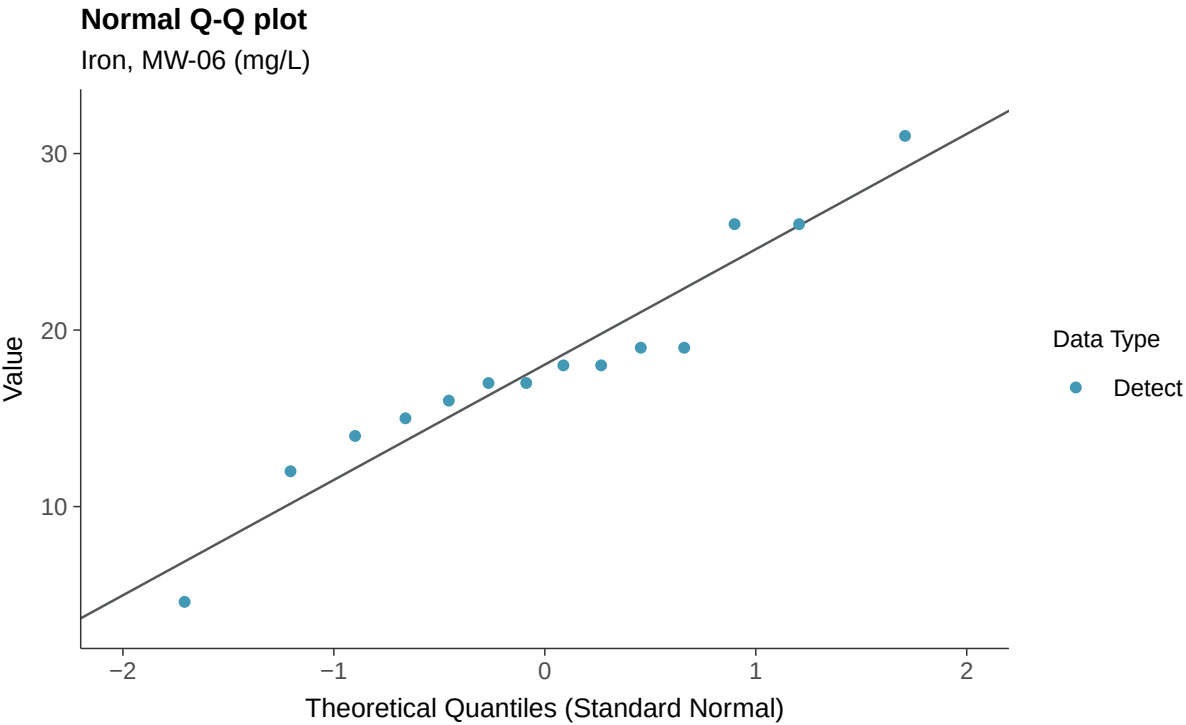


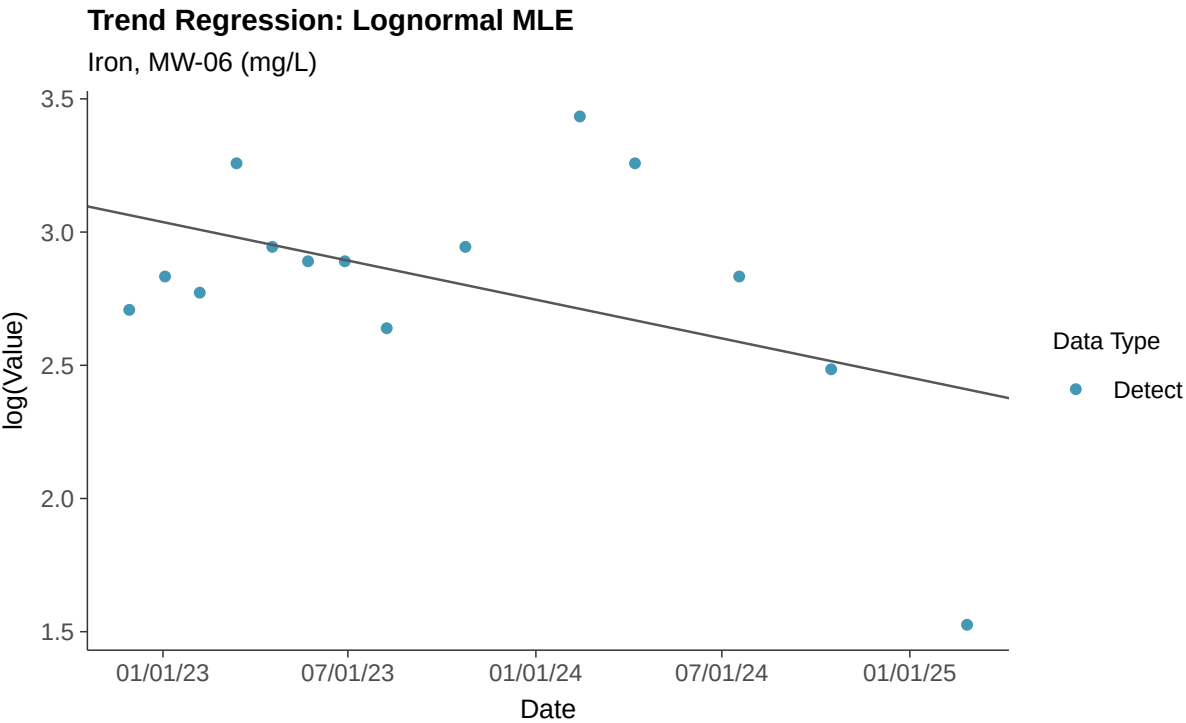
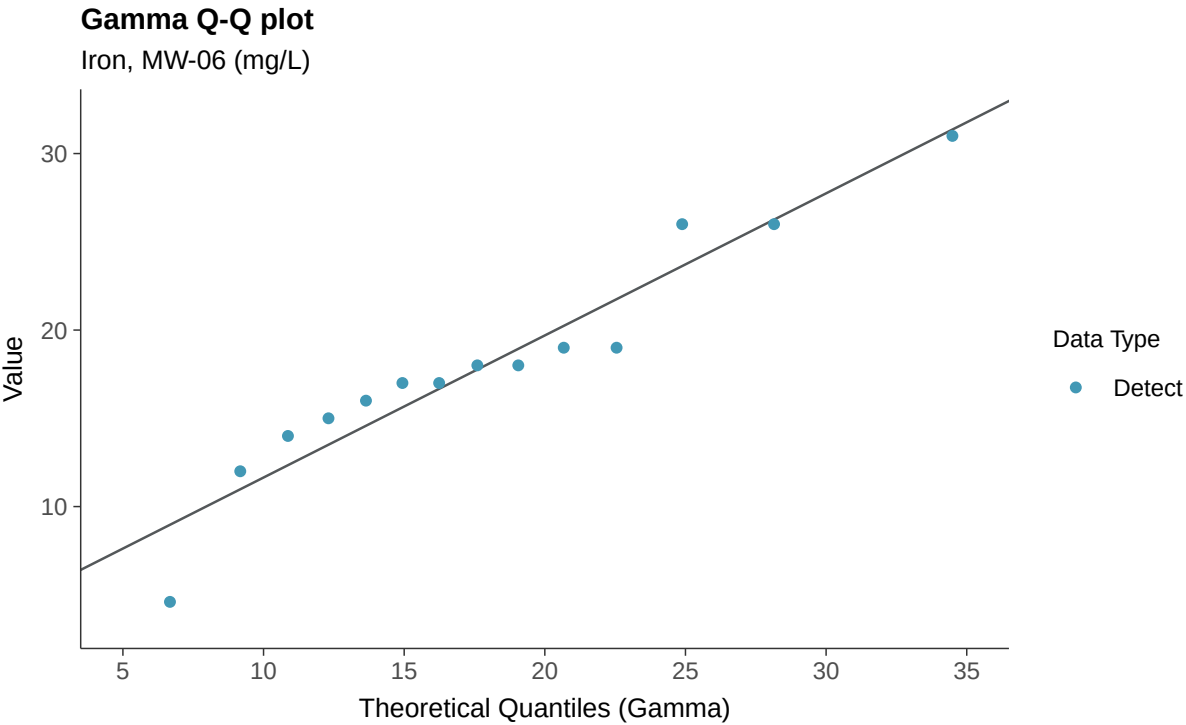
Part 115: Iron, MW-06

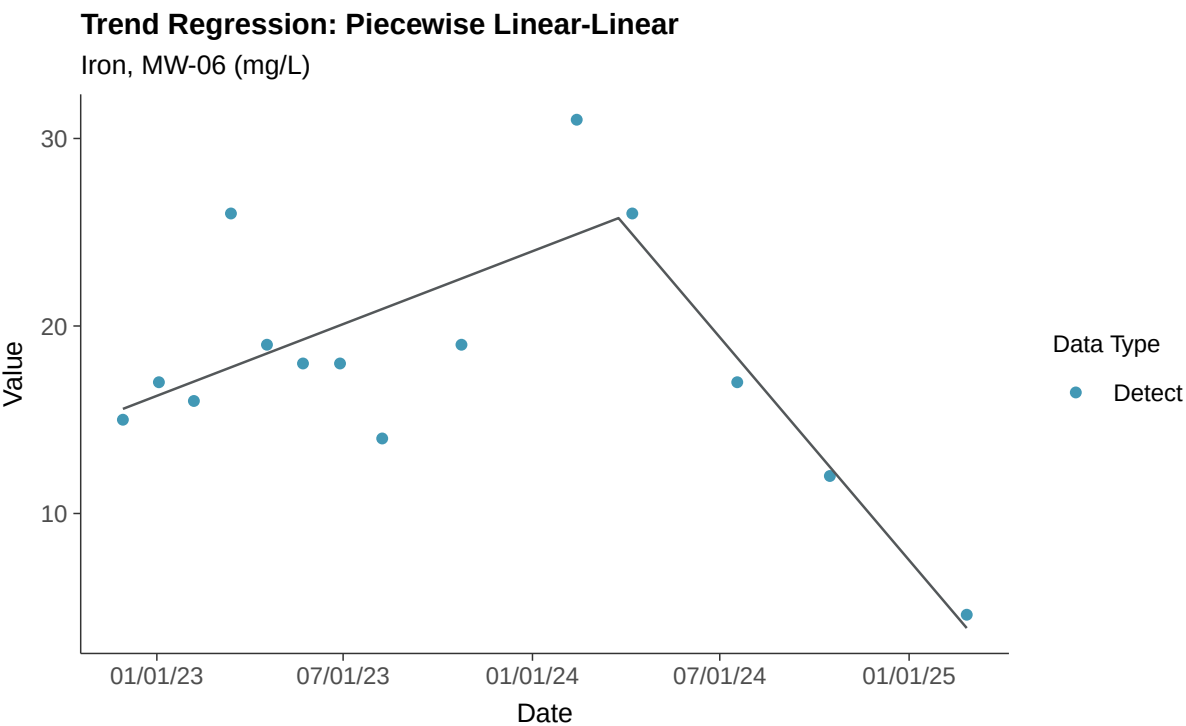
ID: 16_1_5_114







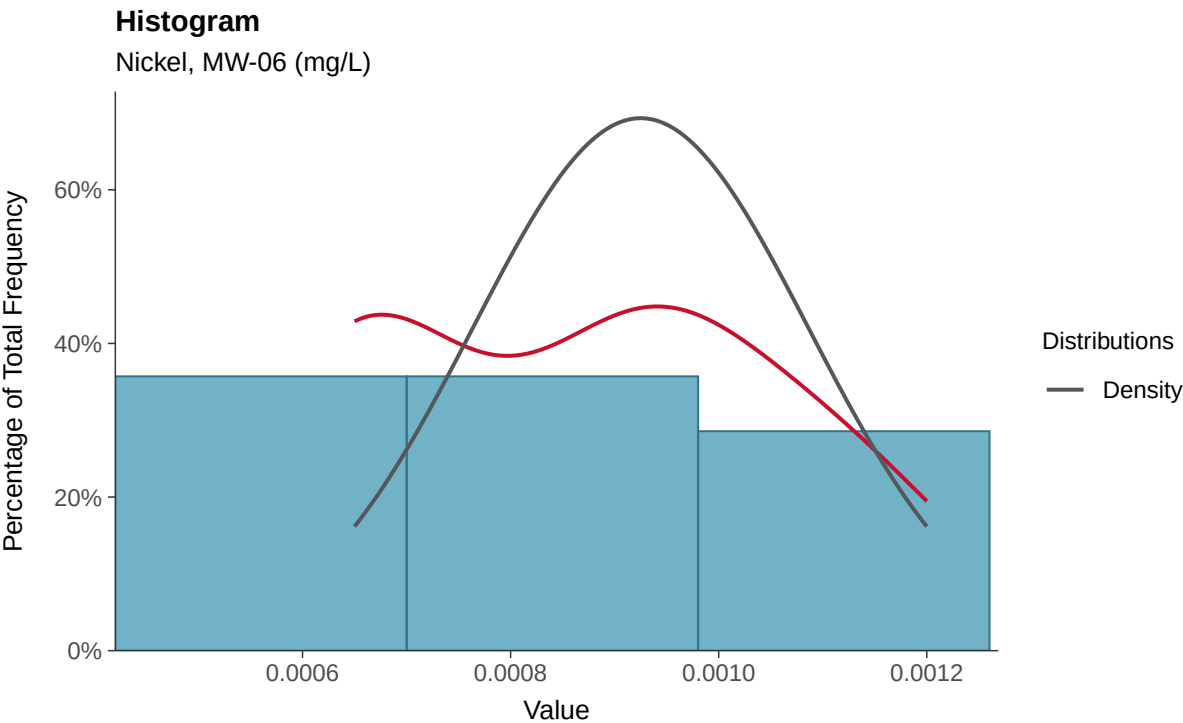
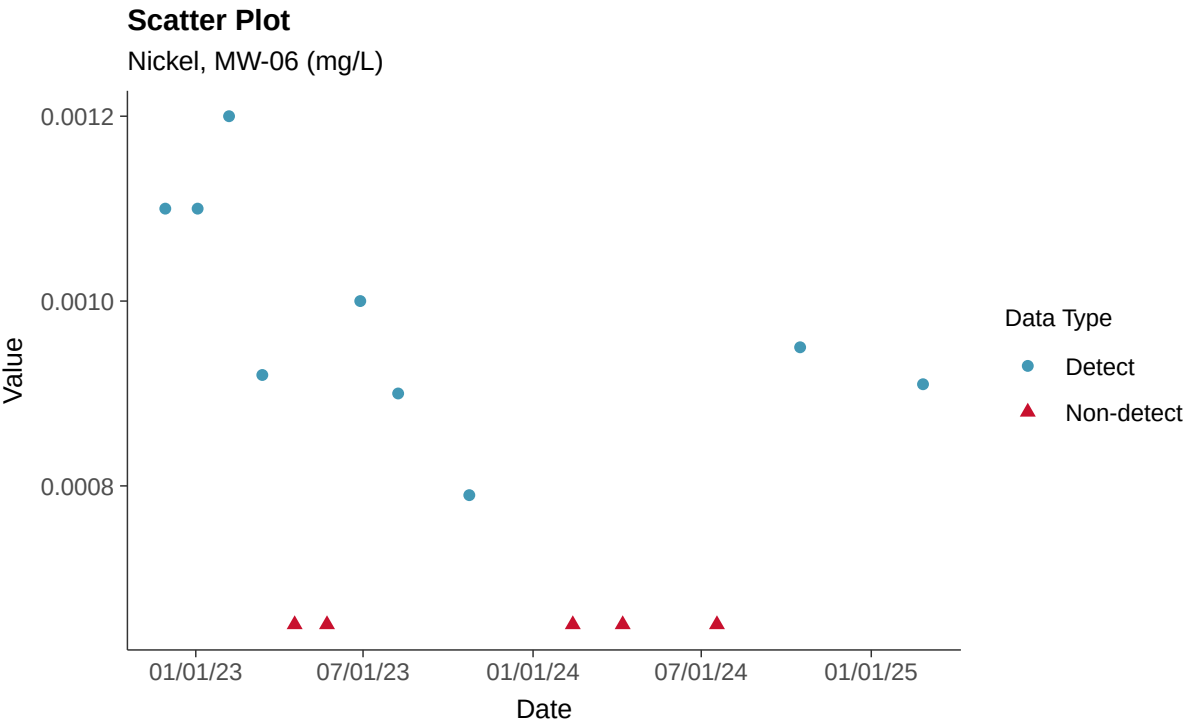


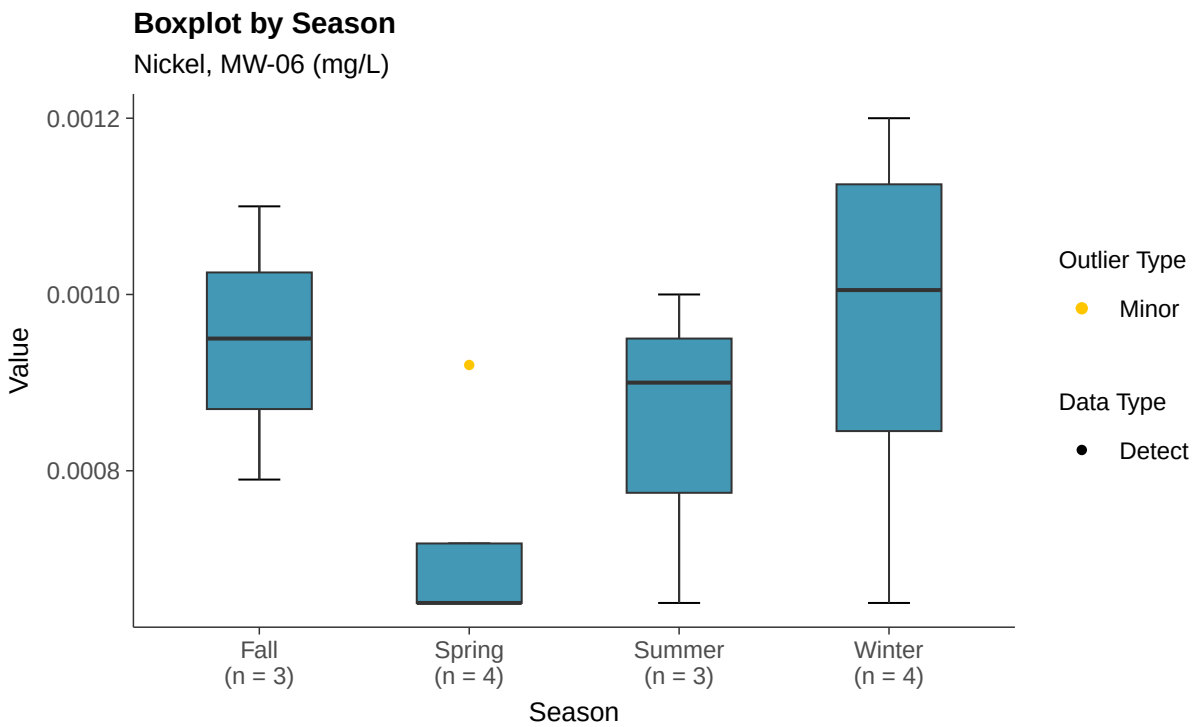
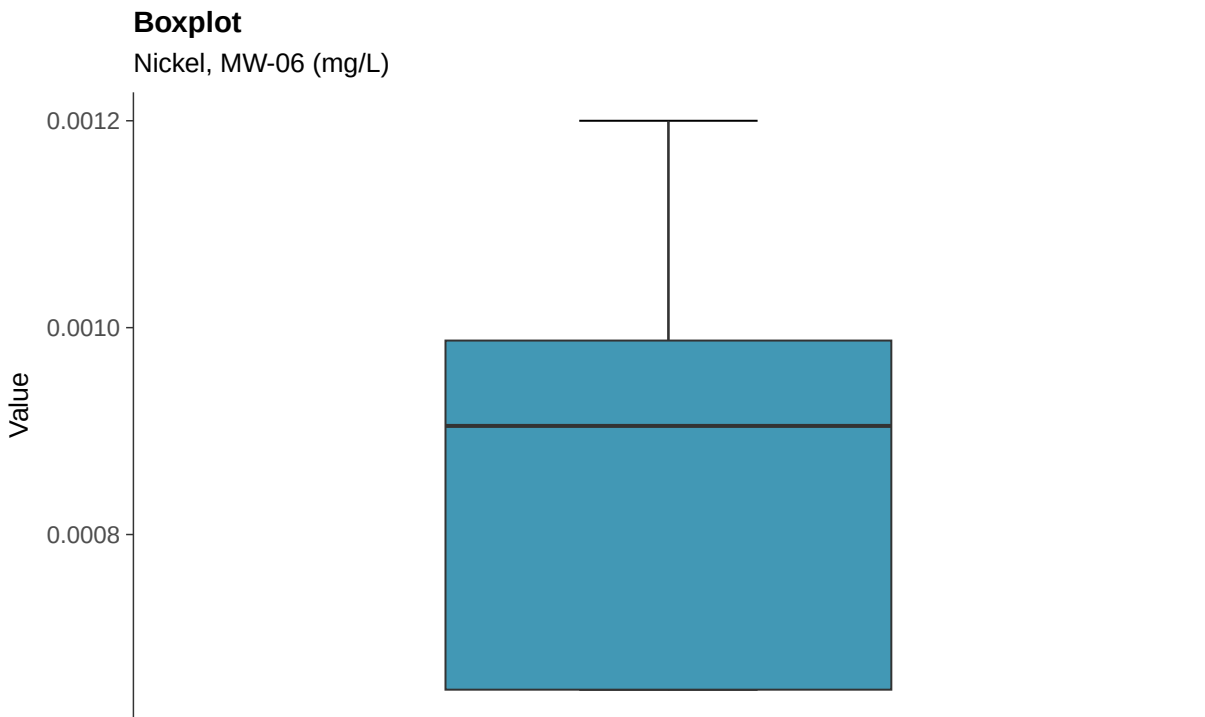


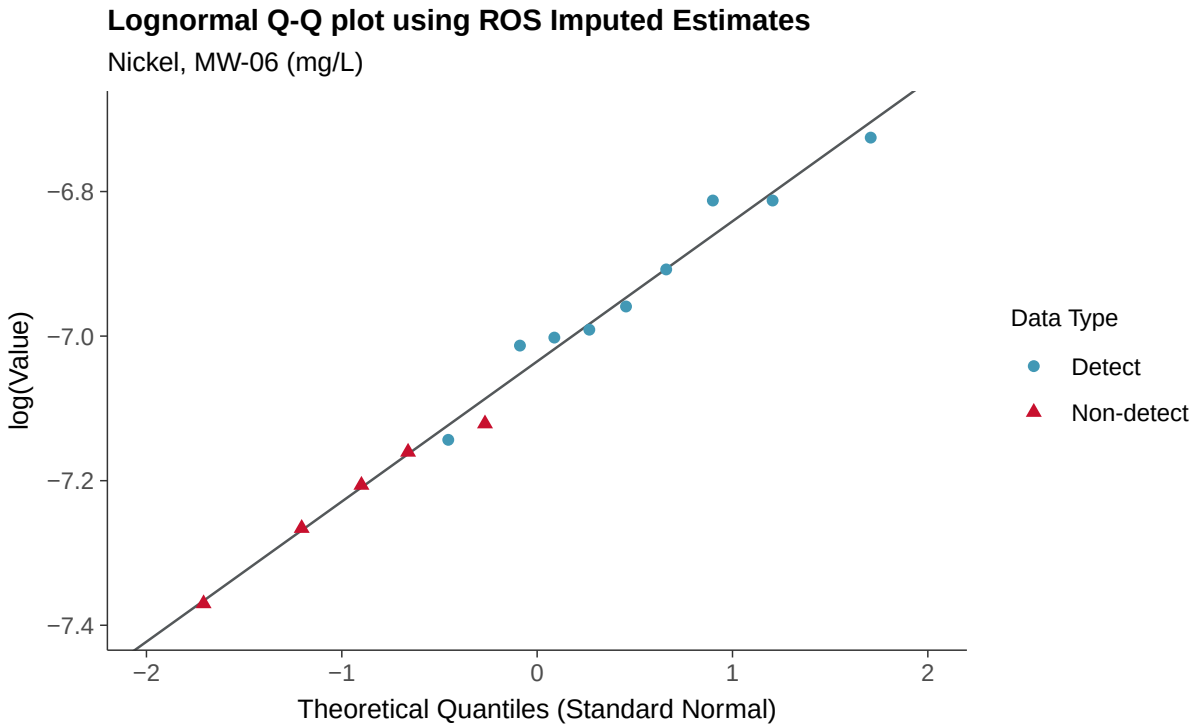
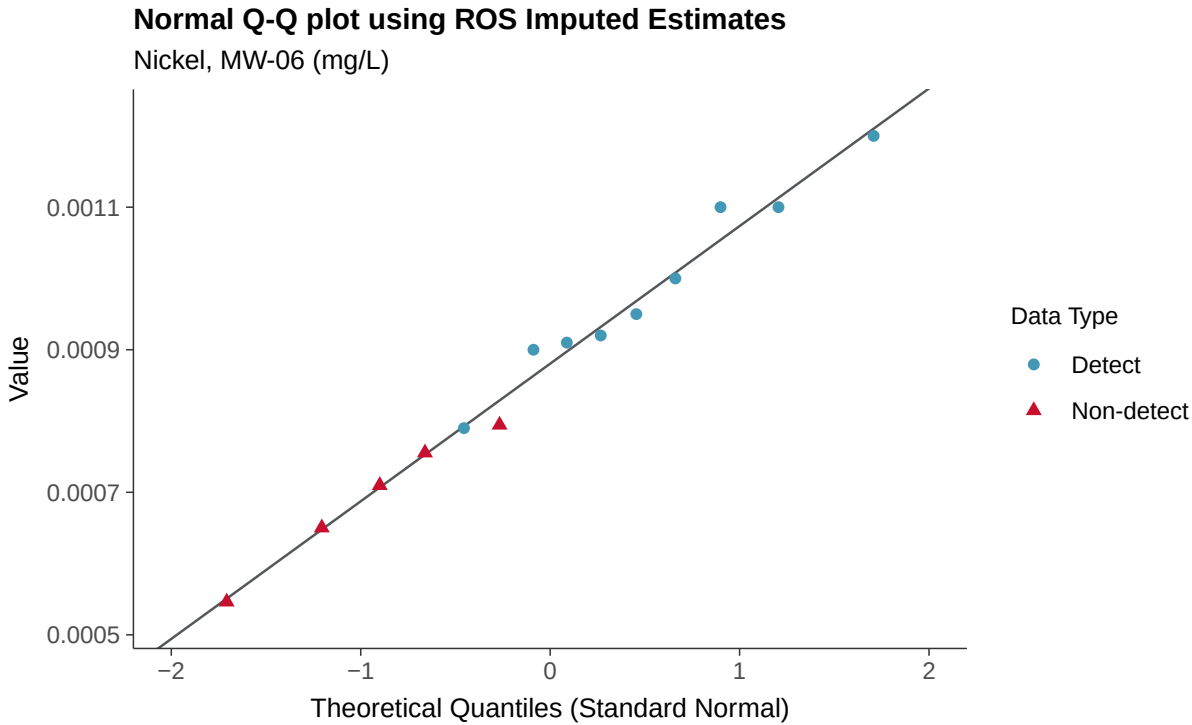


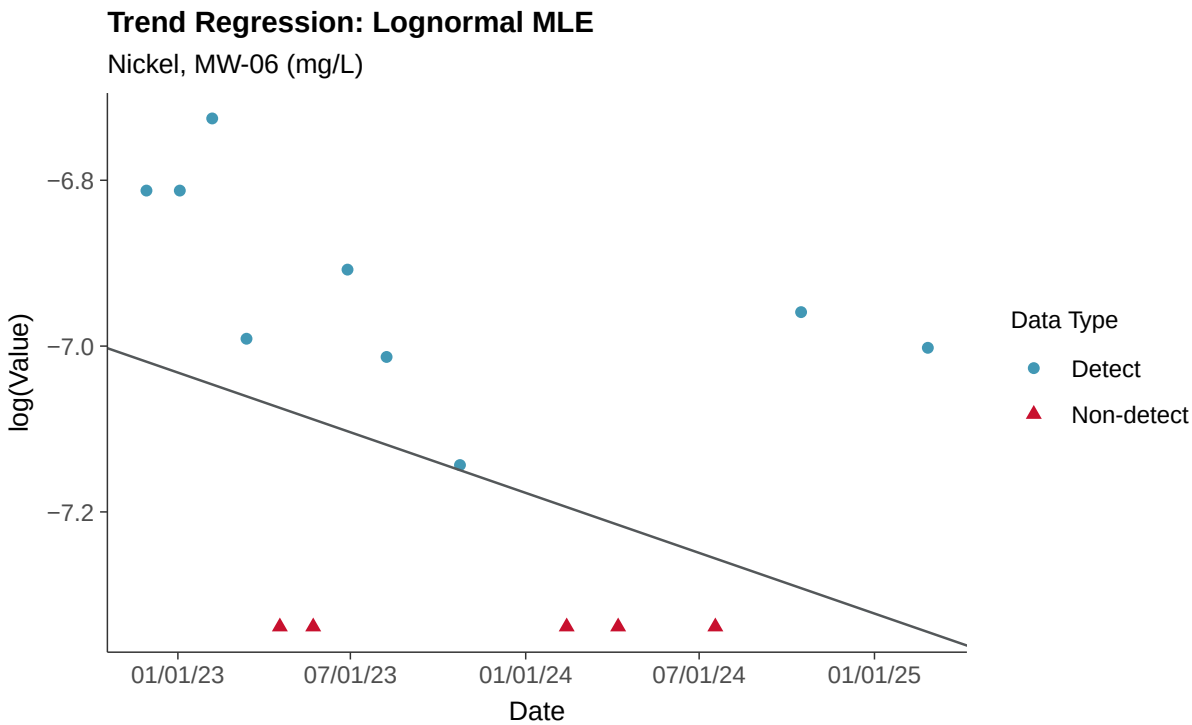
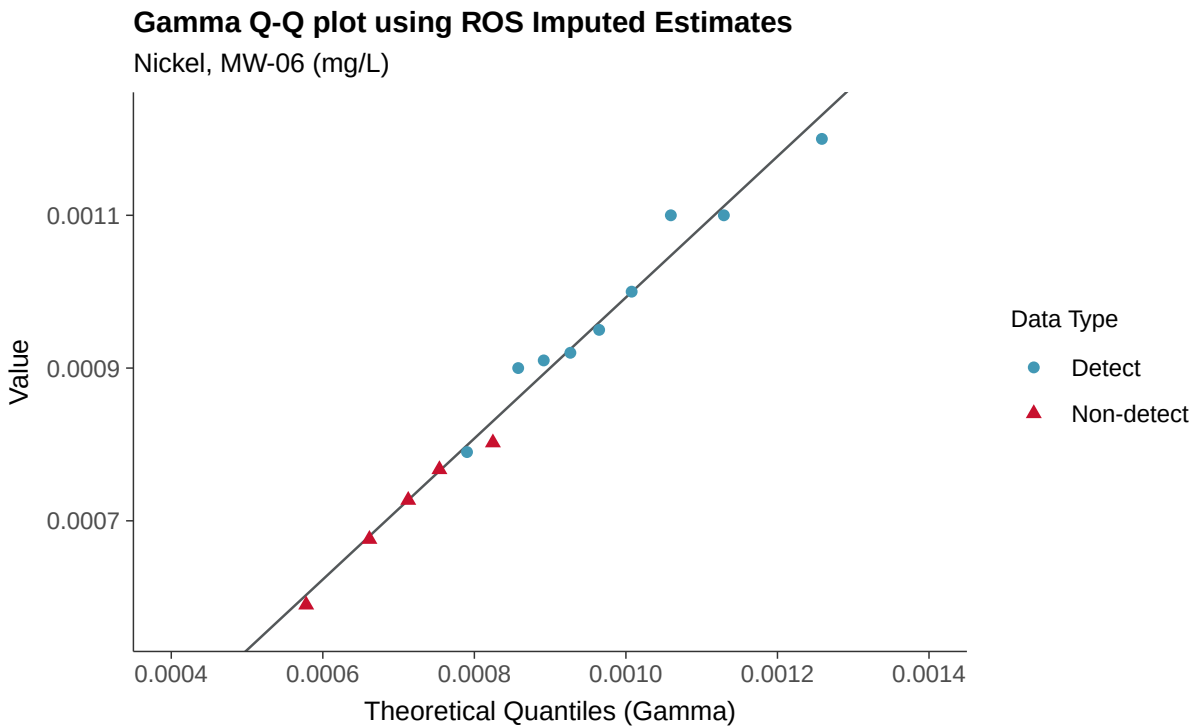
Part 115: Nickel, MW-06

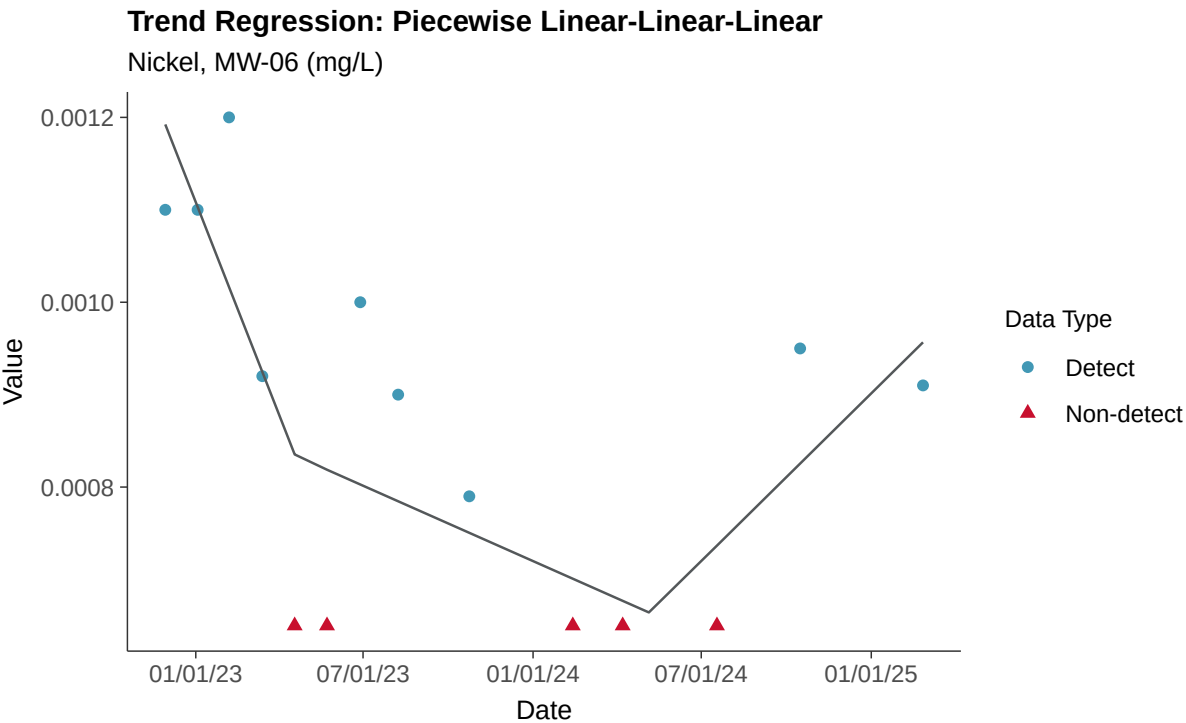
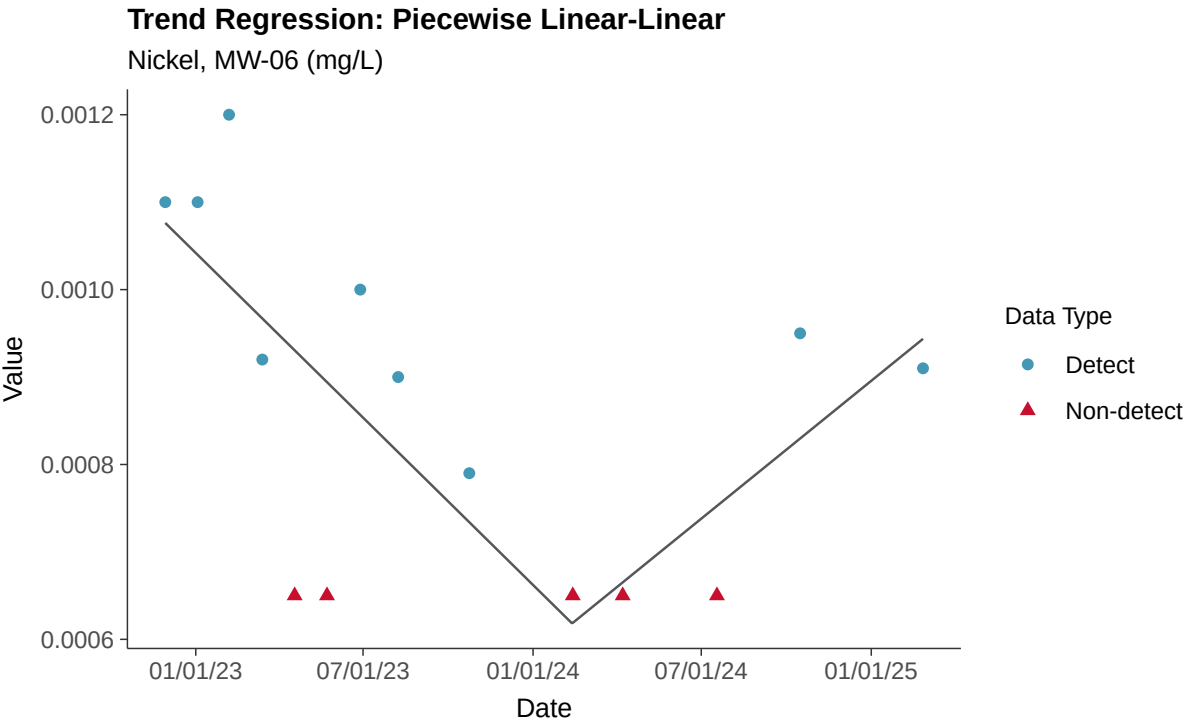
ID: 16_1_5_119







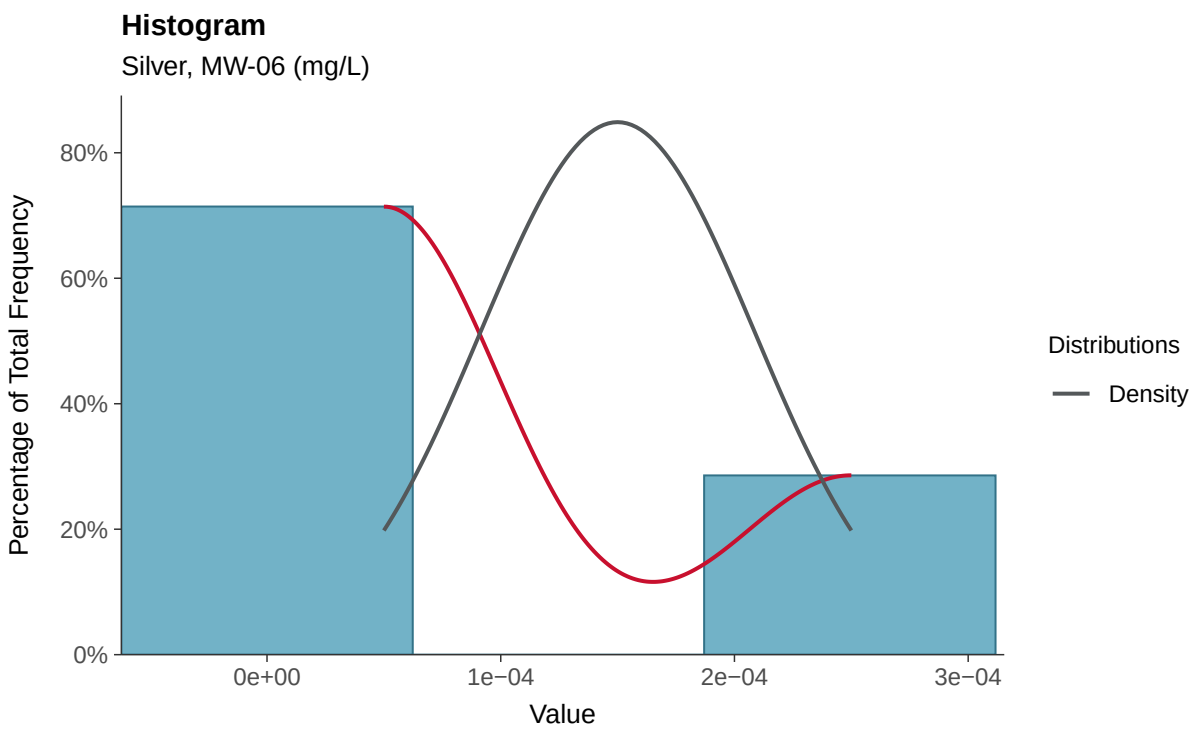
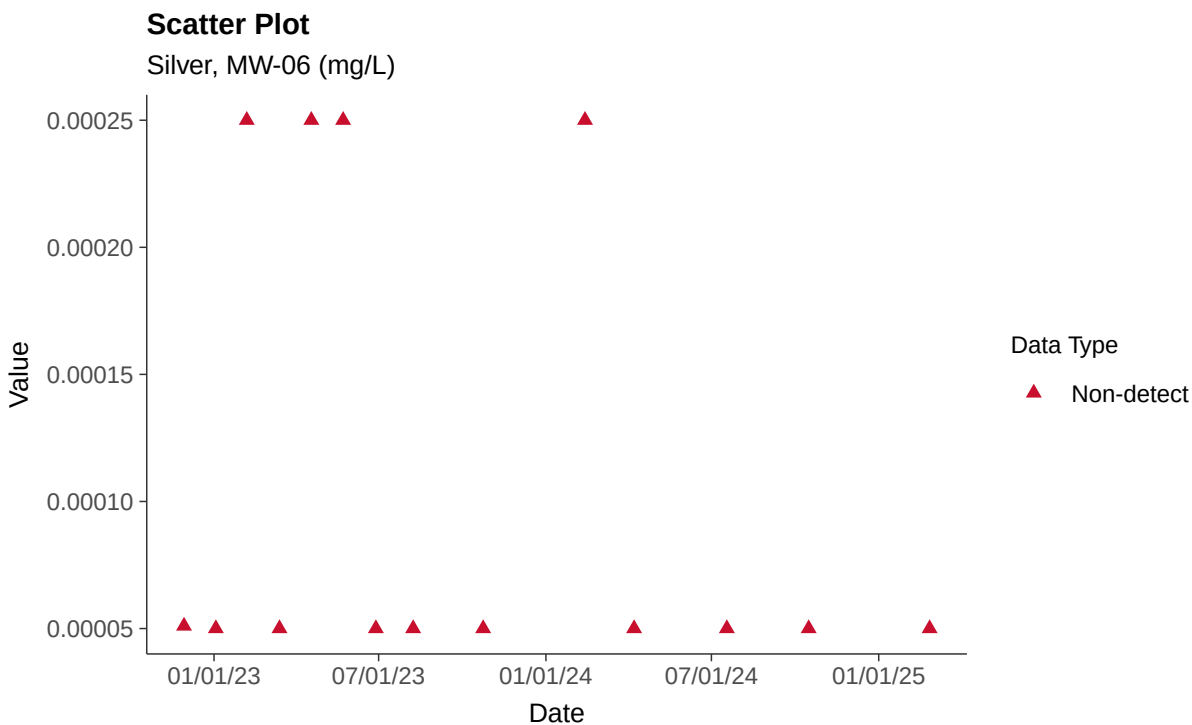


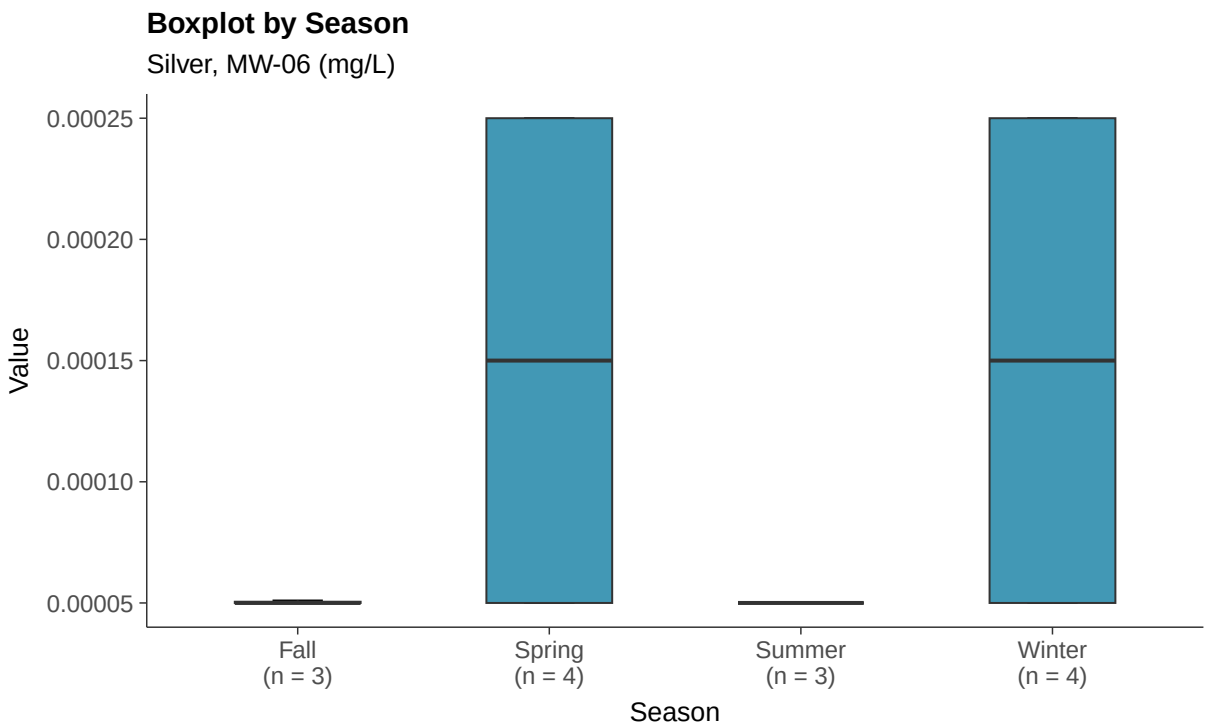
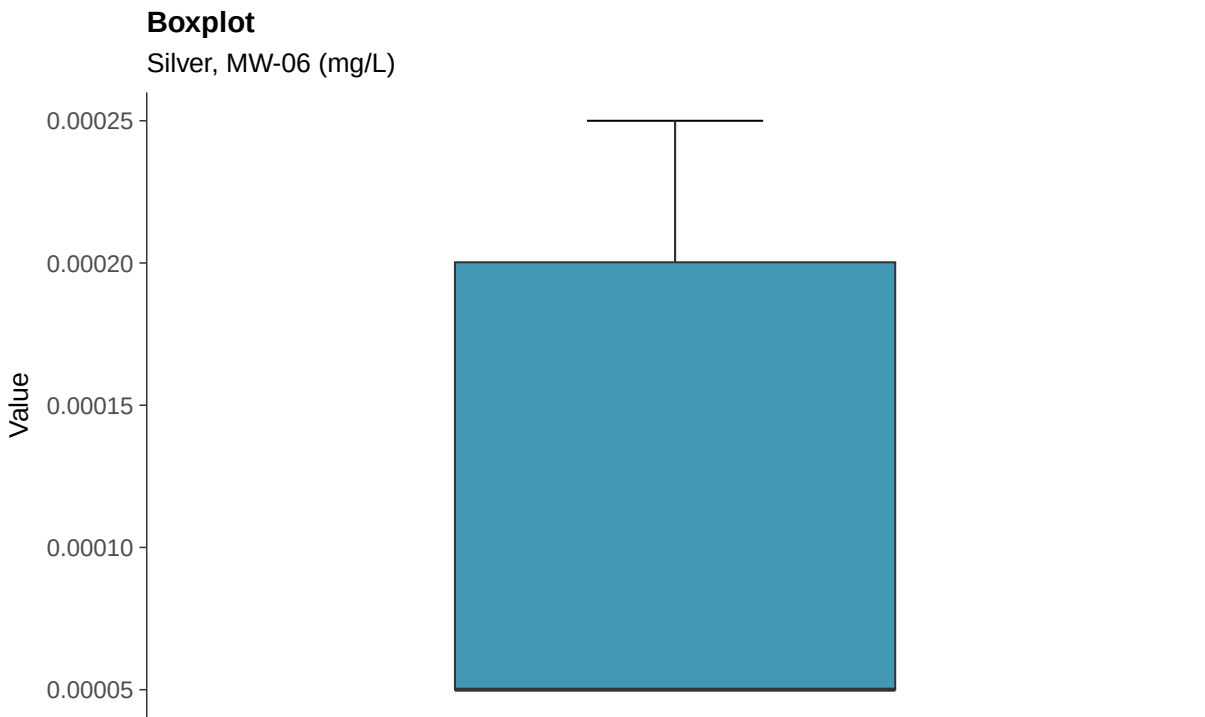


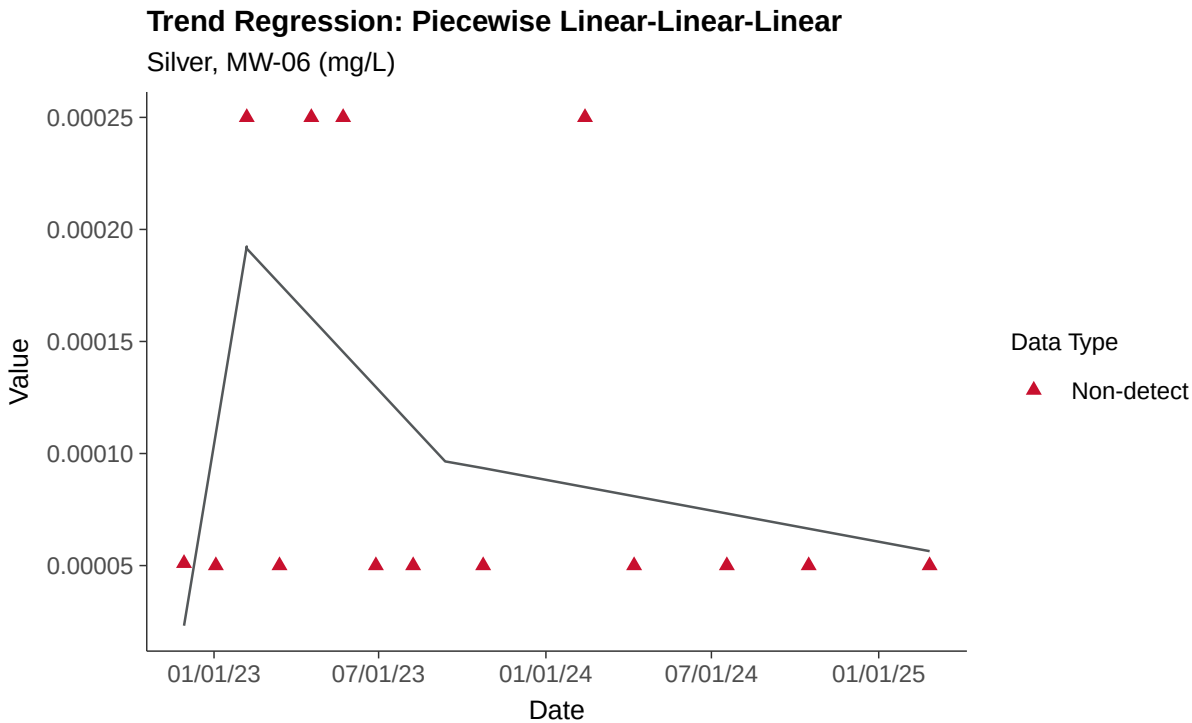
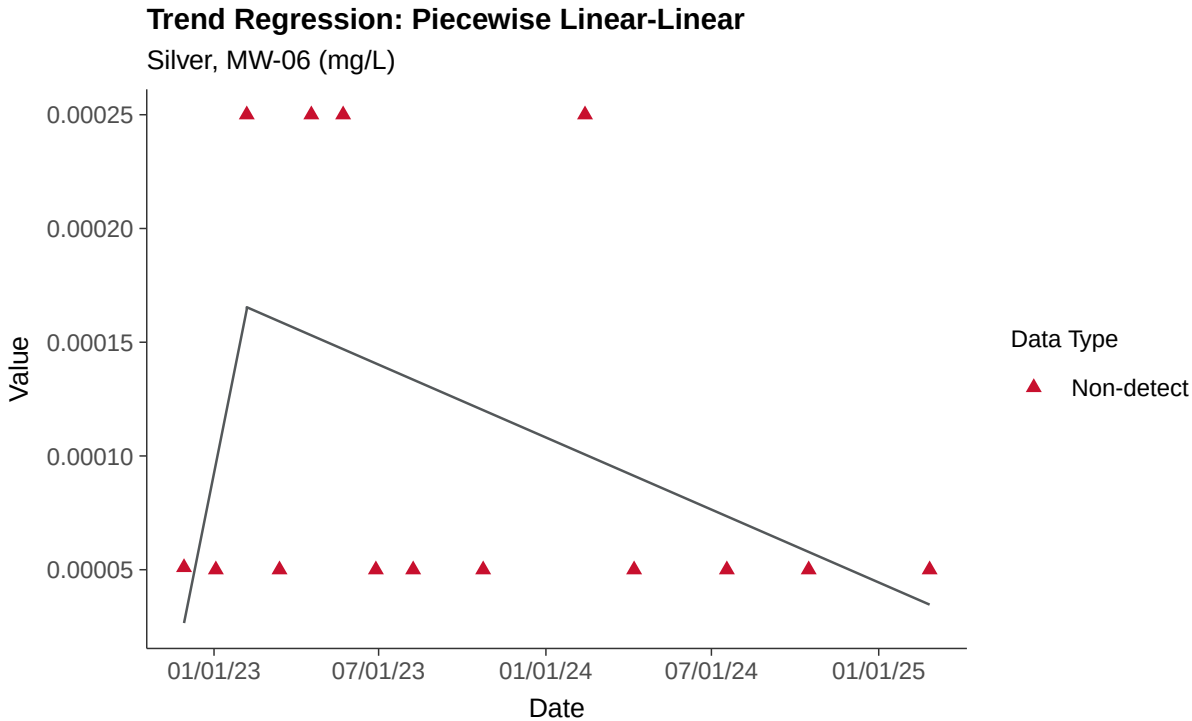


Part 115: Silver, MW-06

ID: 16_1_5_123



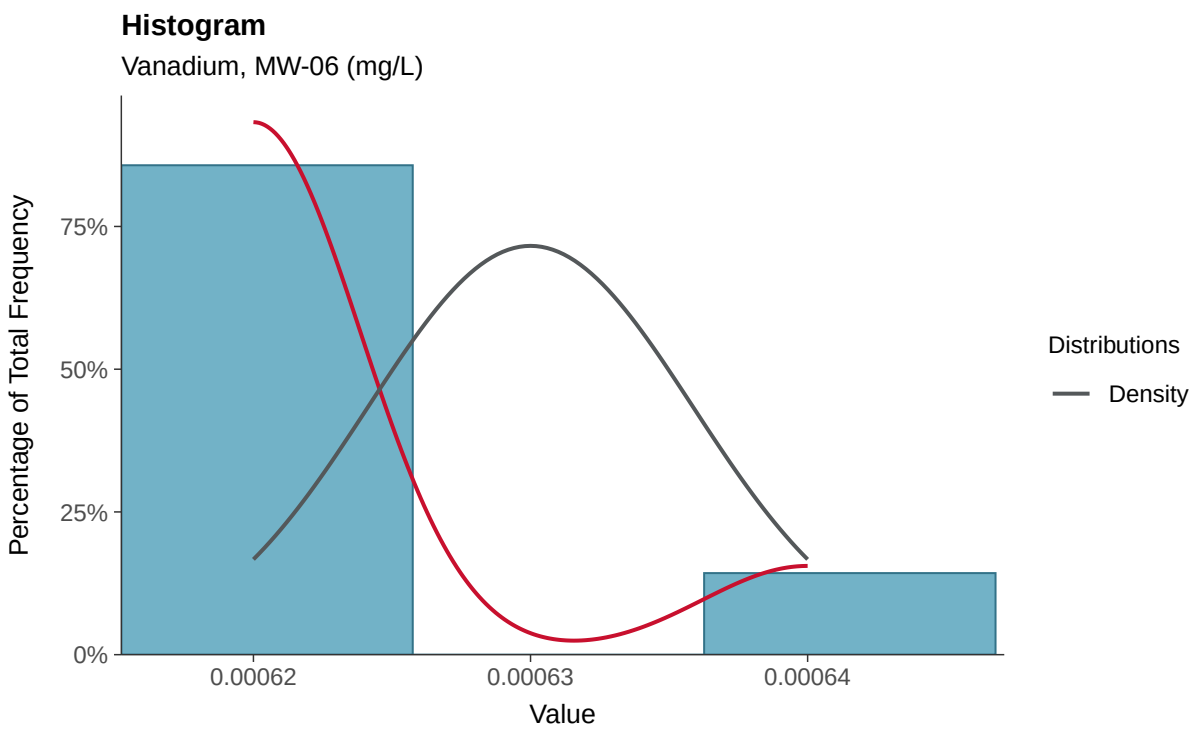
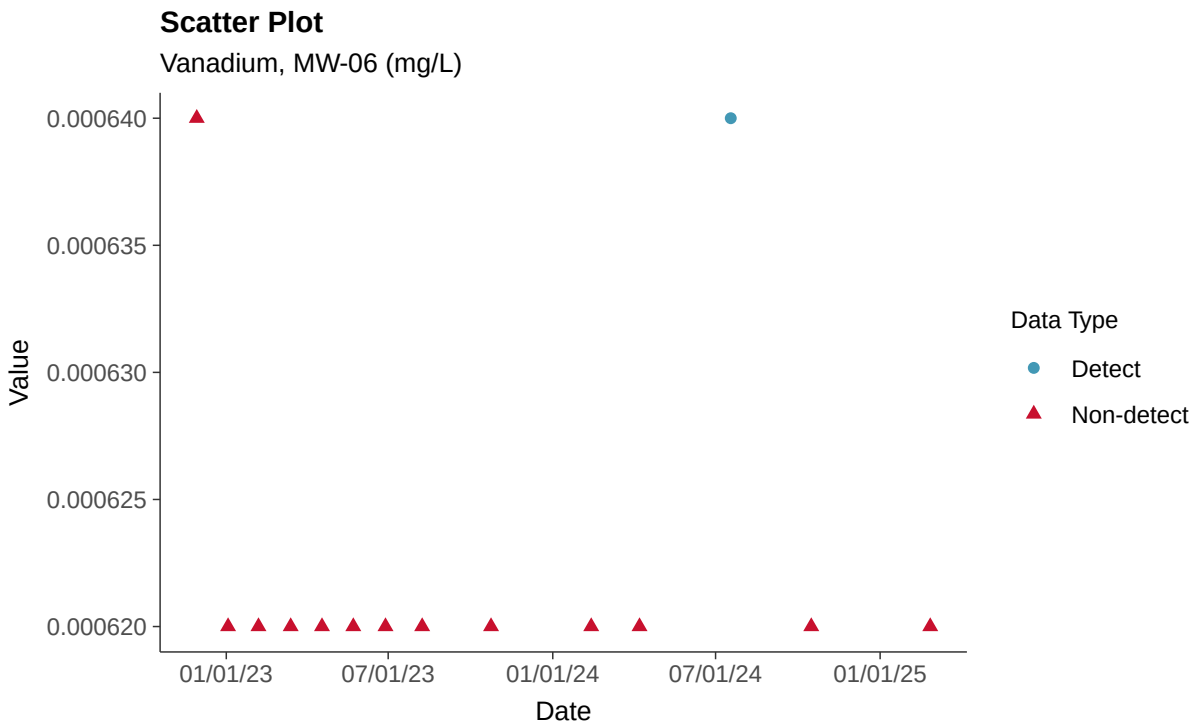


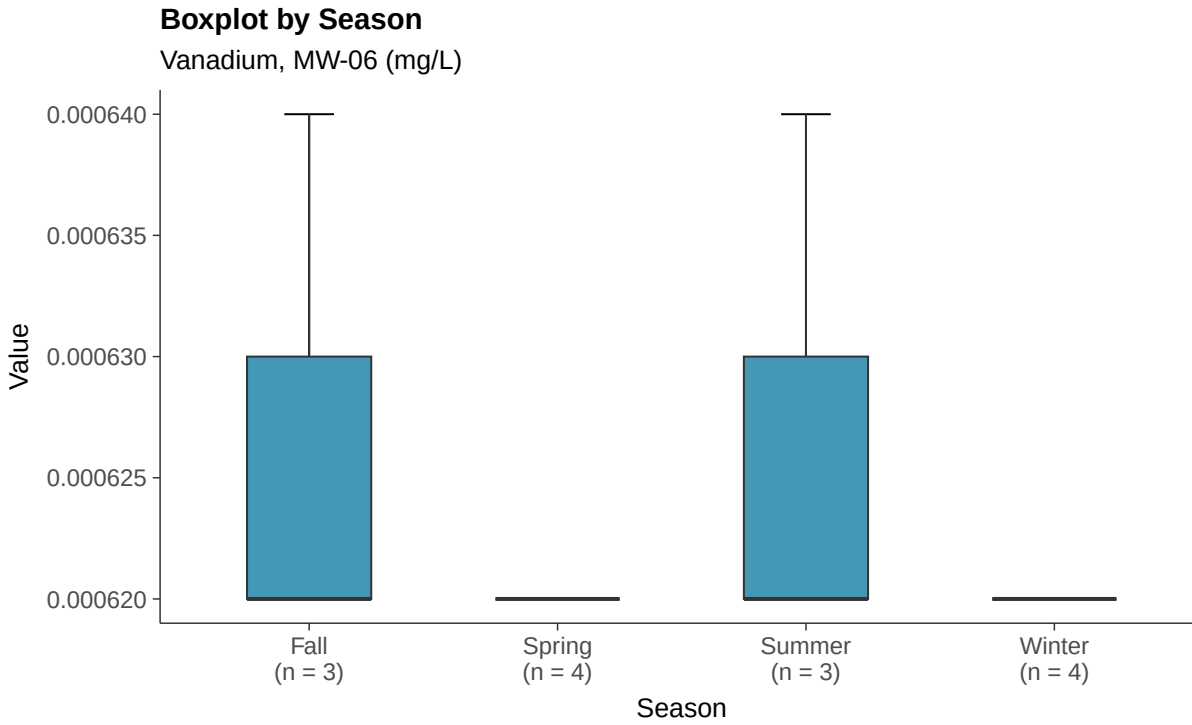
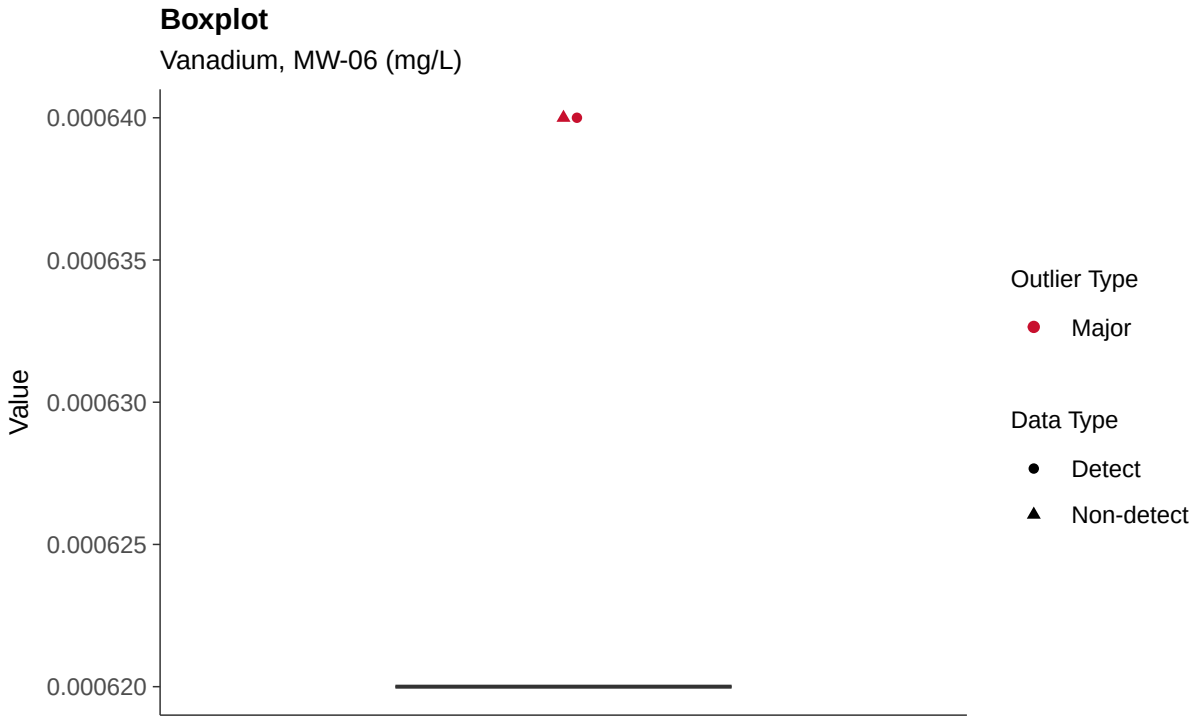


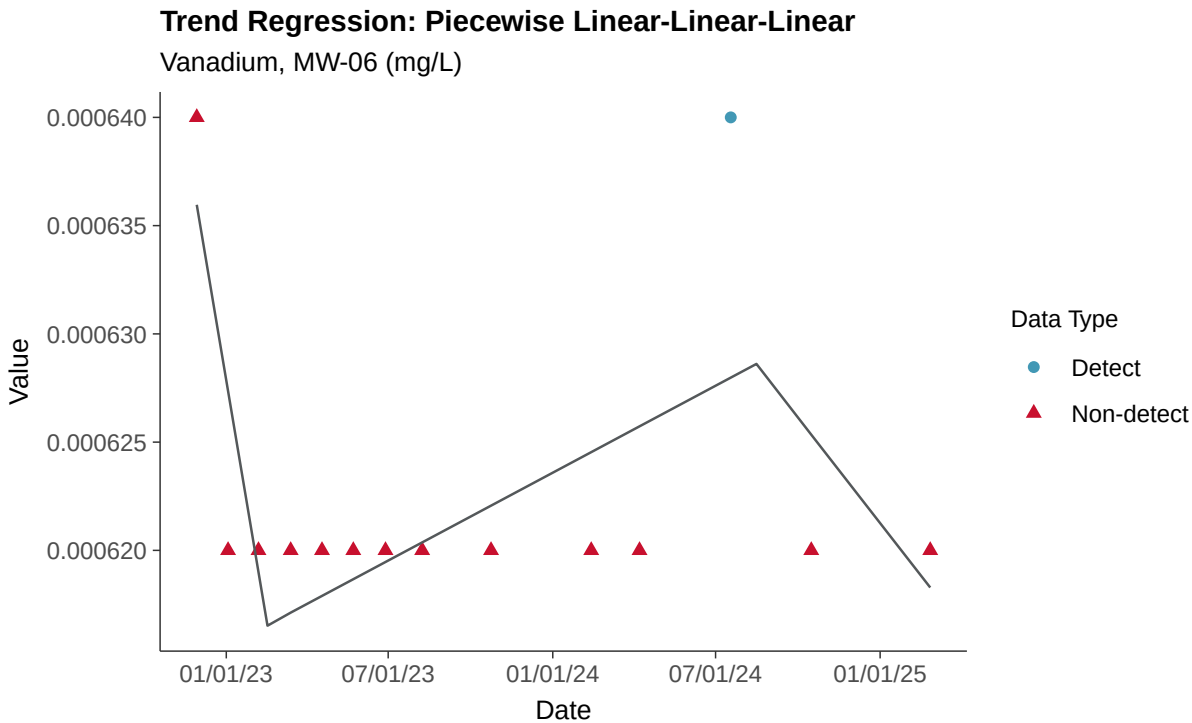
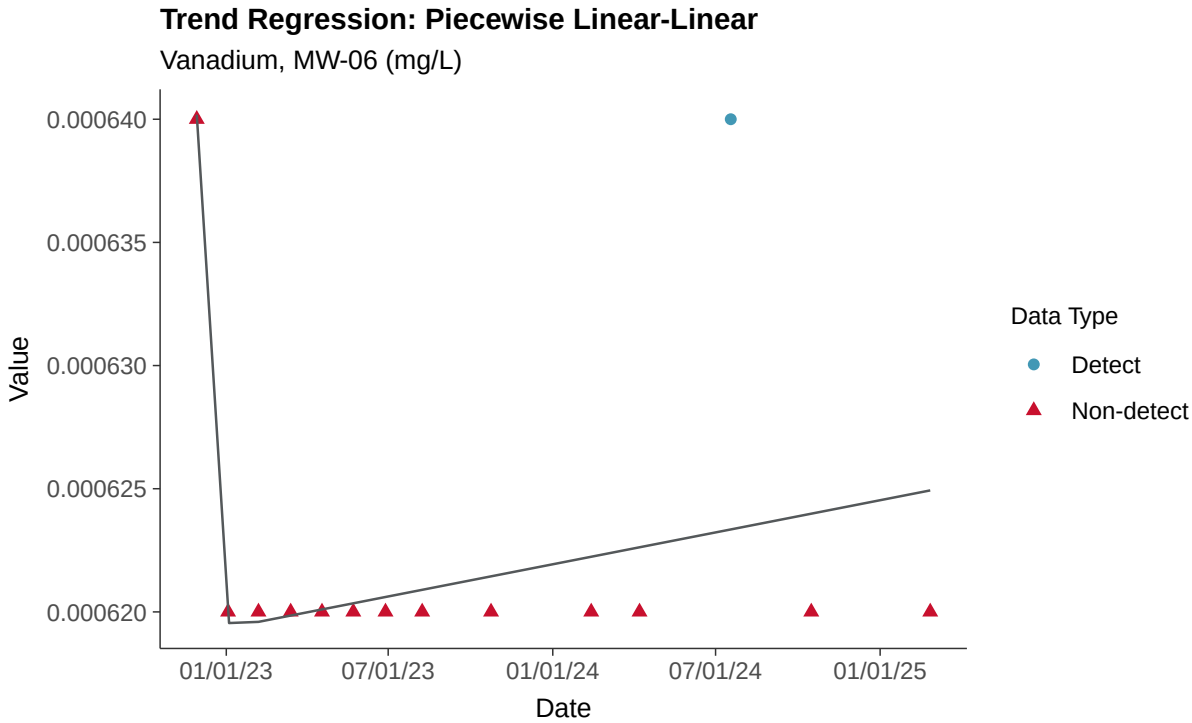


Part 115: Vanadium, MW-06

ID: 16_1_5_128



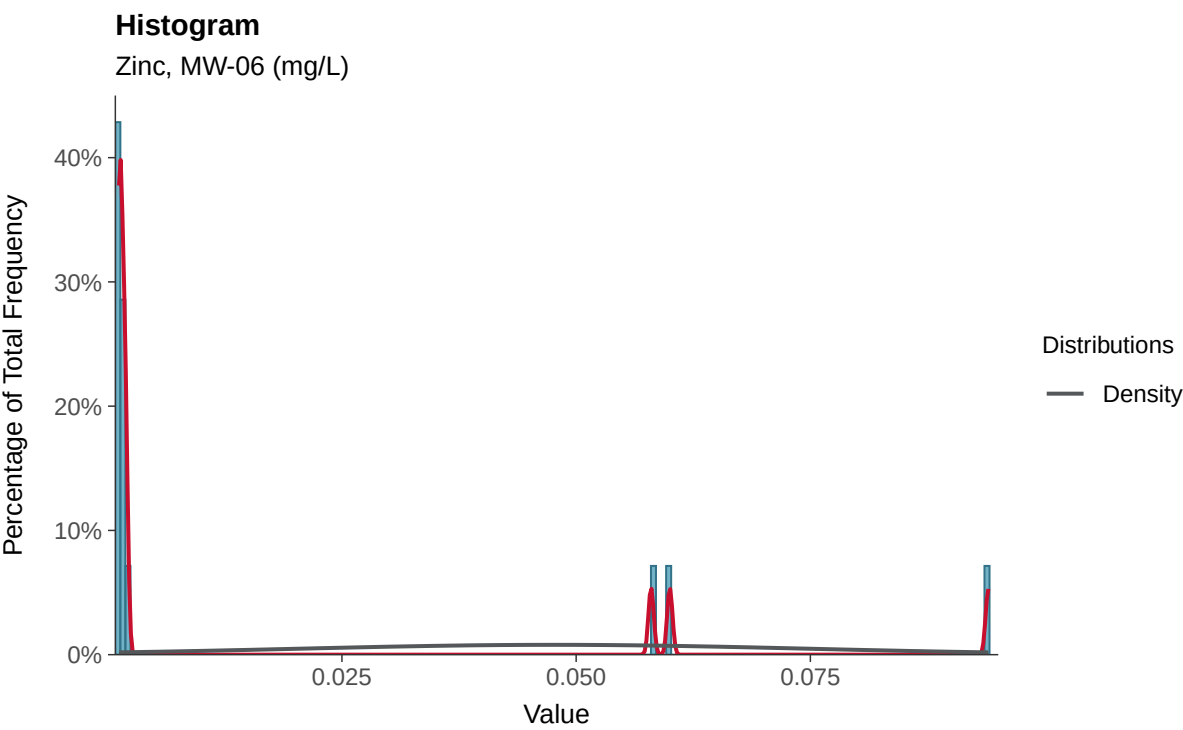
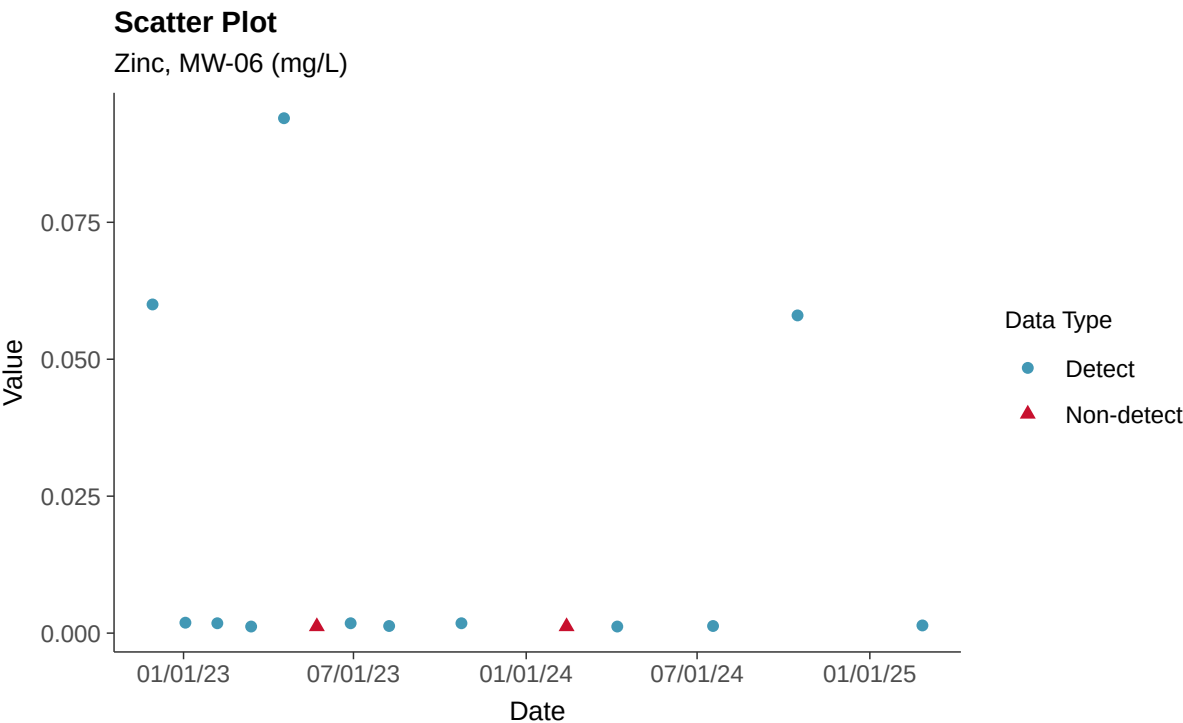


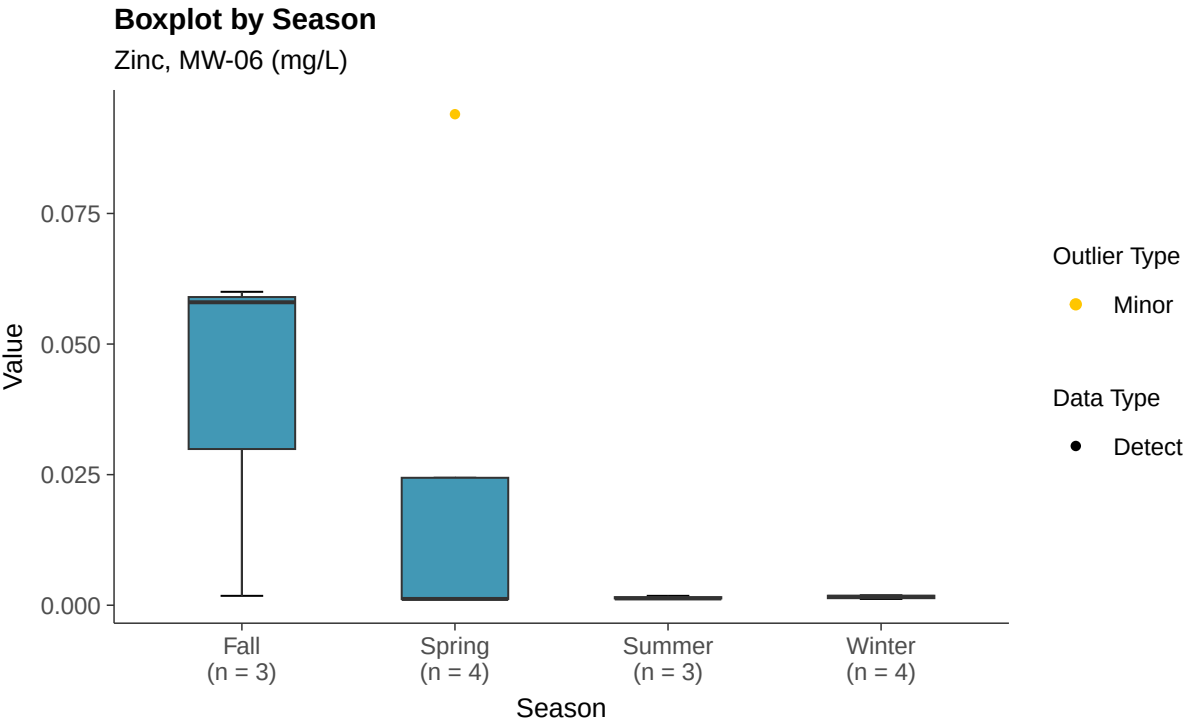
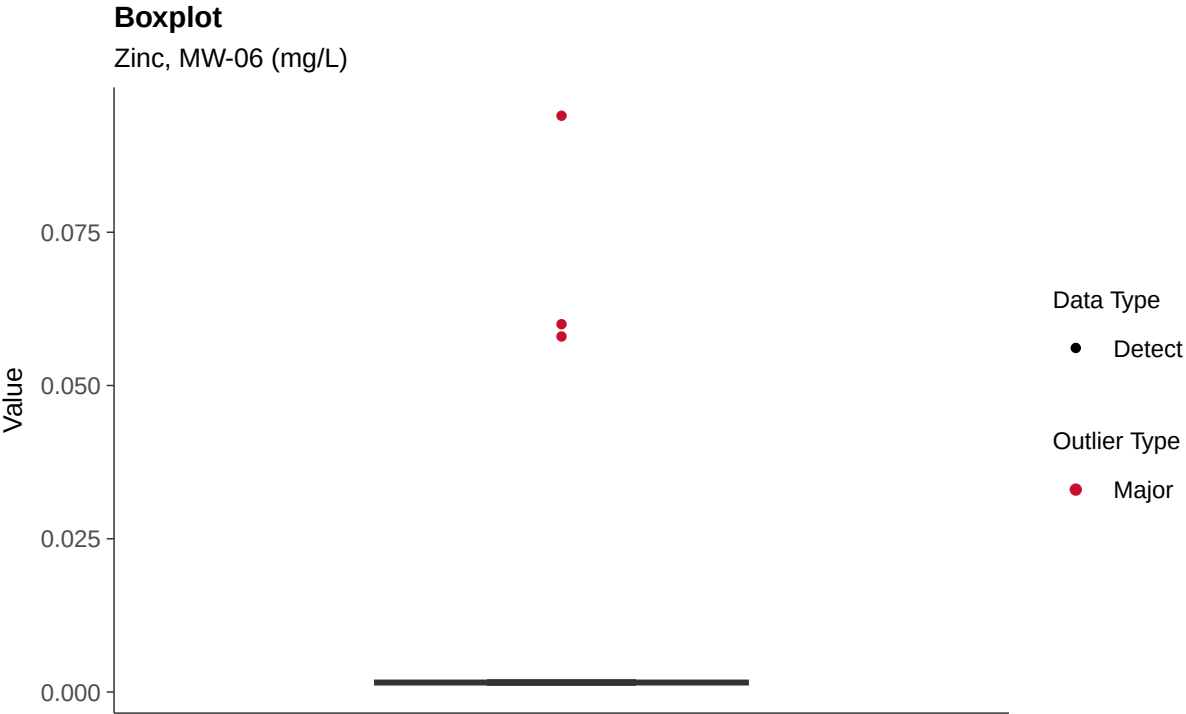




Part 115: Zinc, MW-06

ID: 16_1_5_129

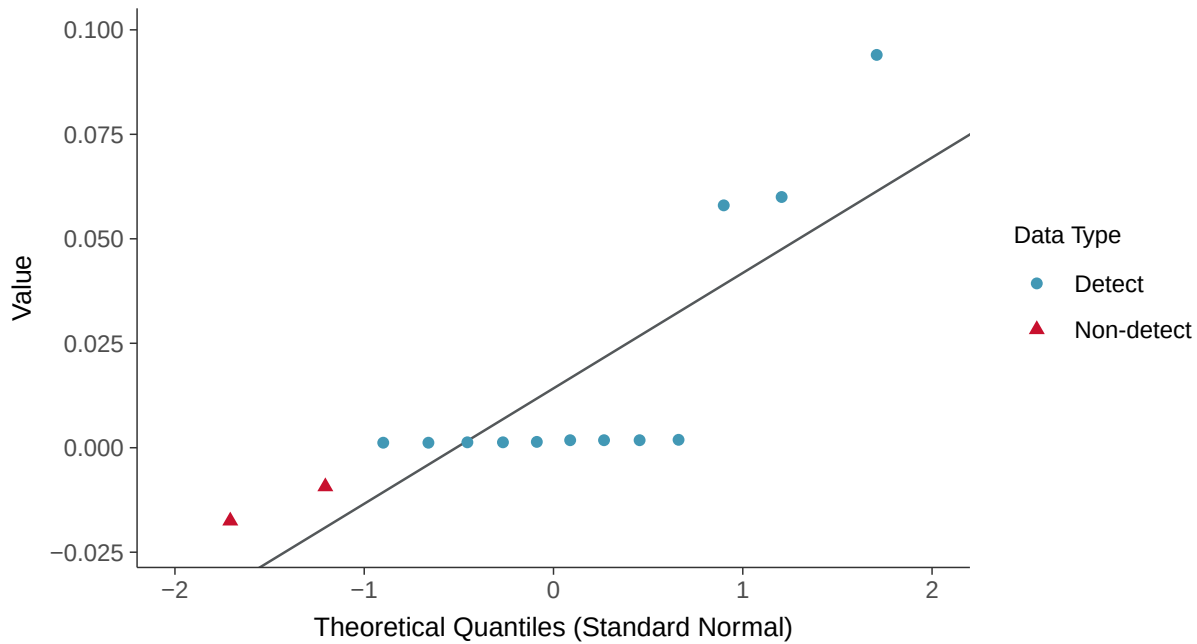






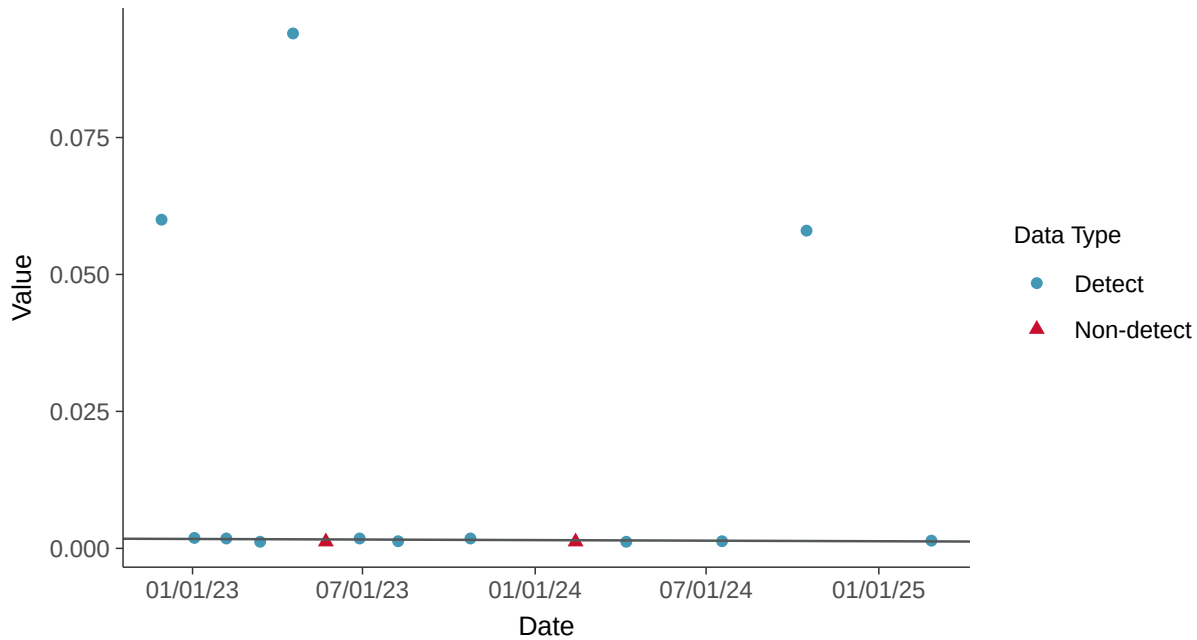
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-06 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

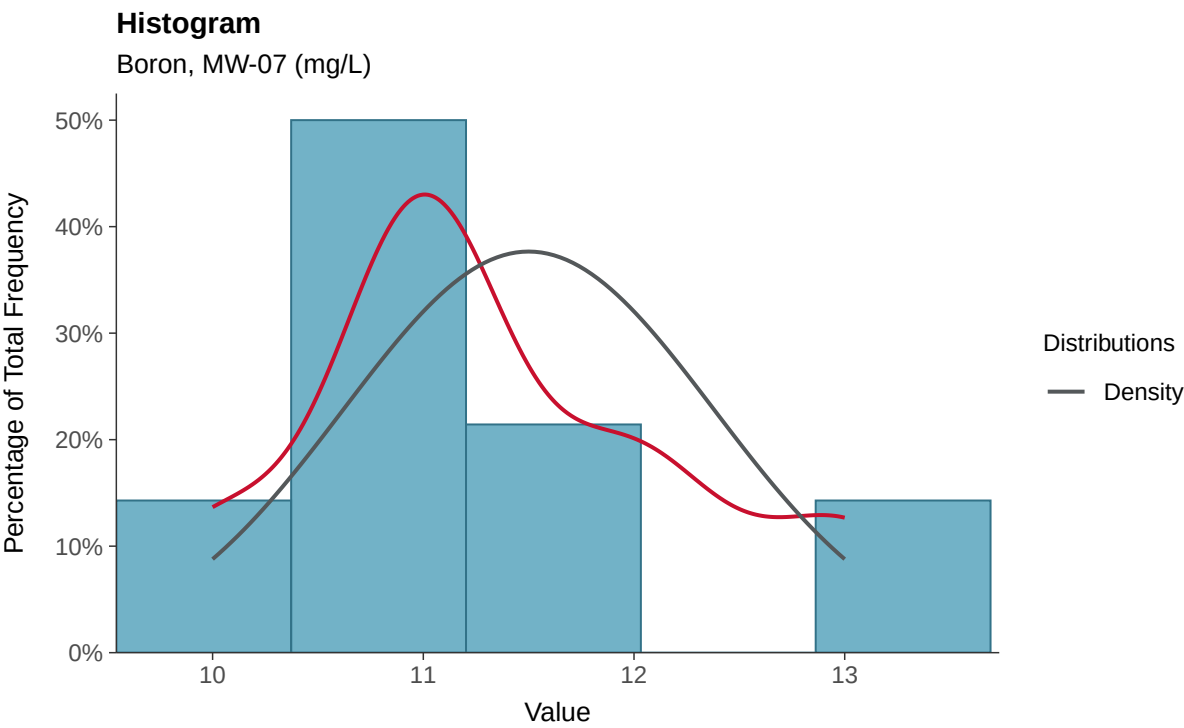
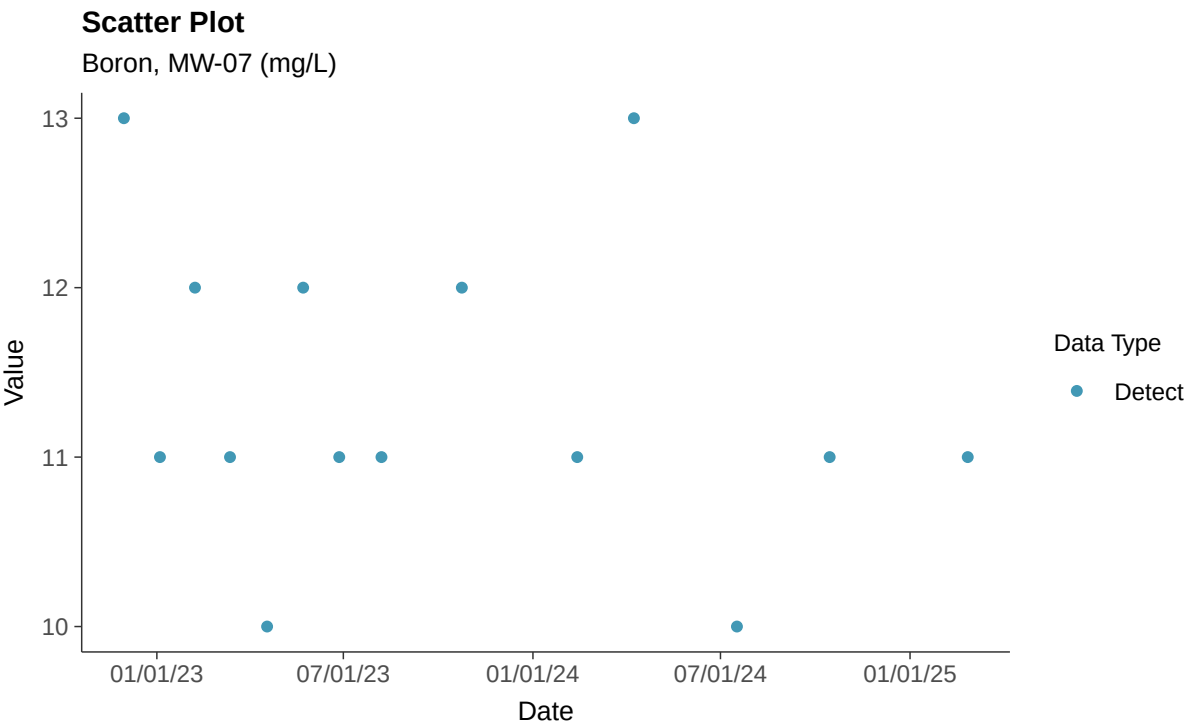
Zinc, MW-06 (mg/L)

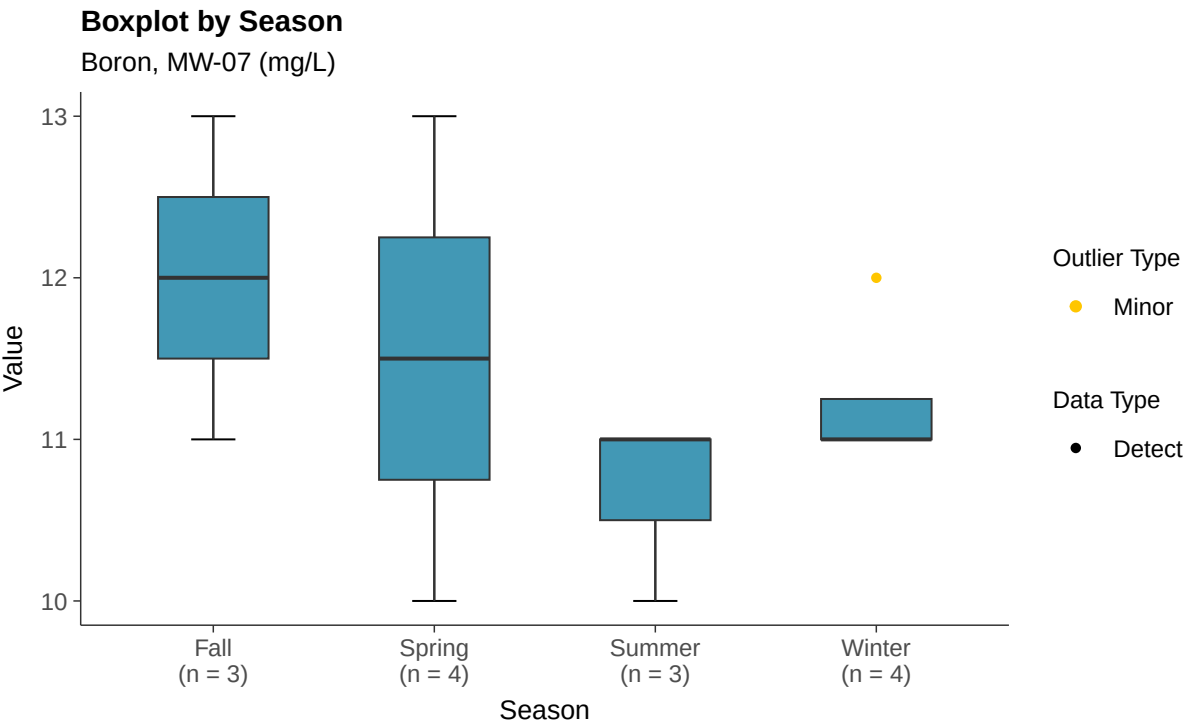
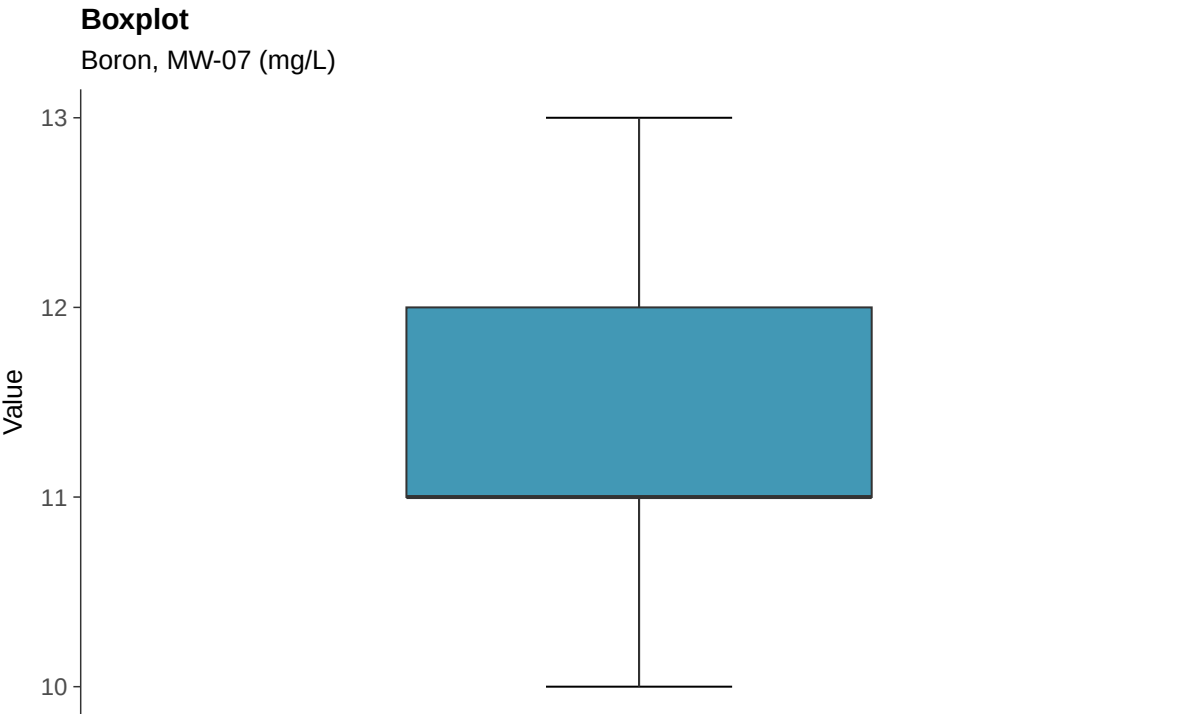


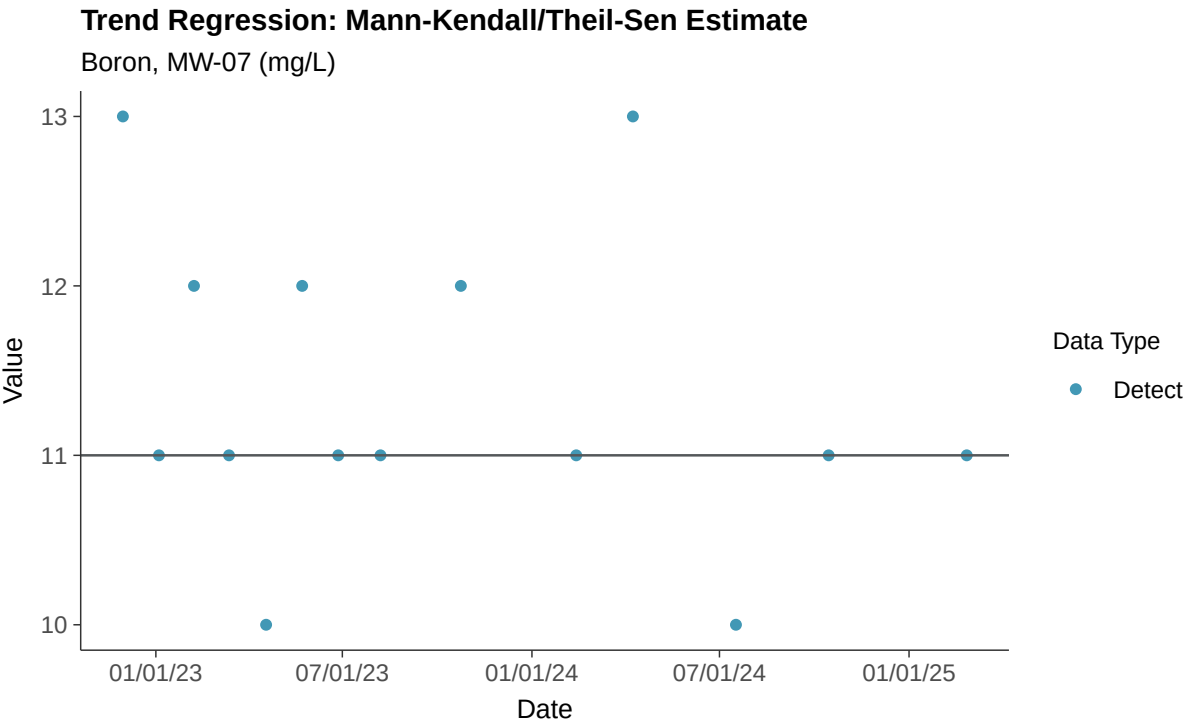
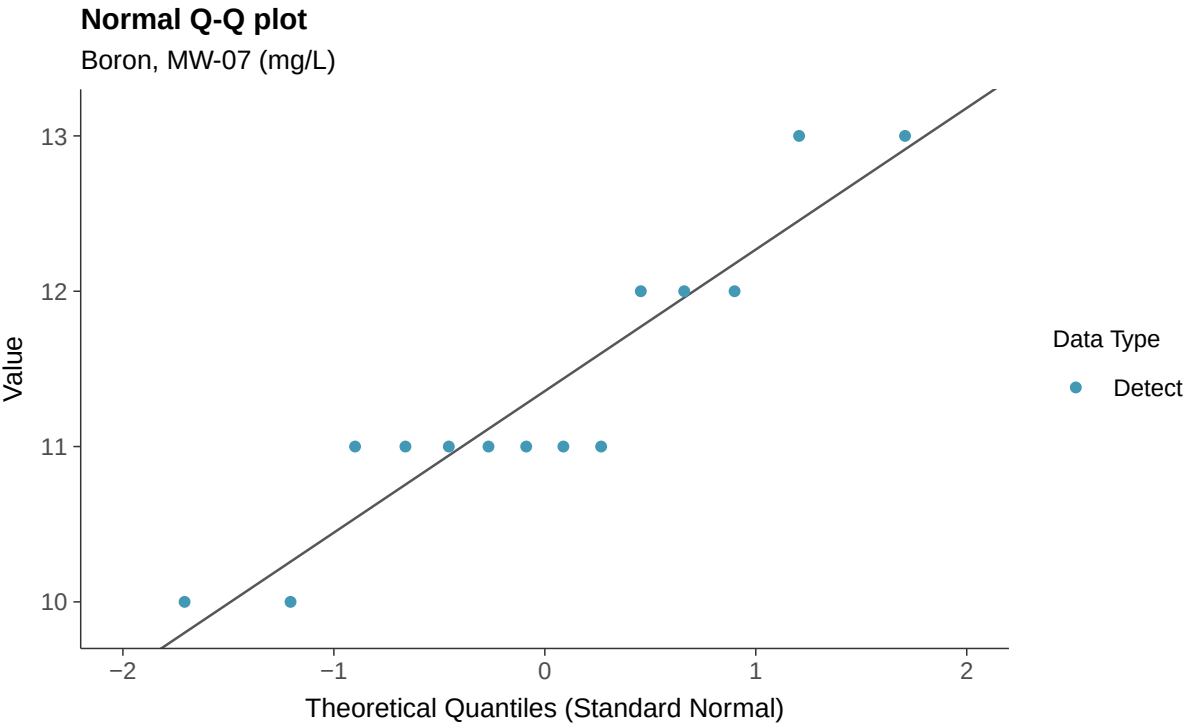


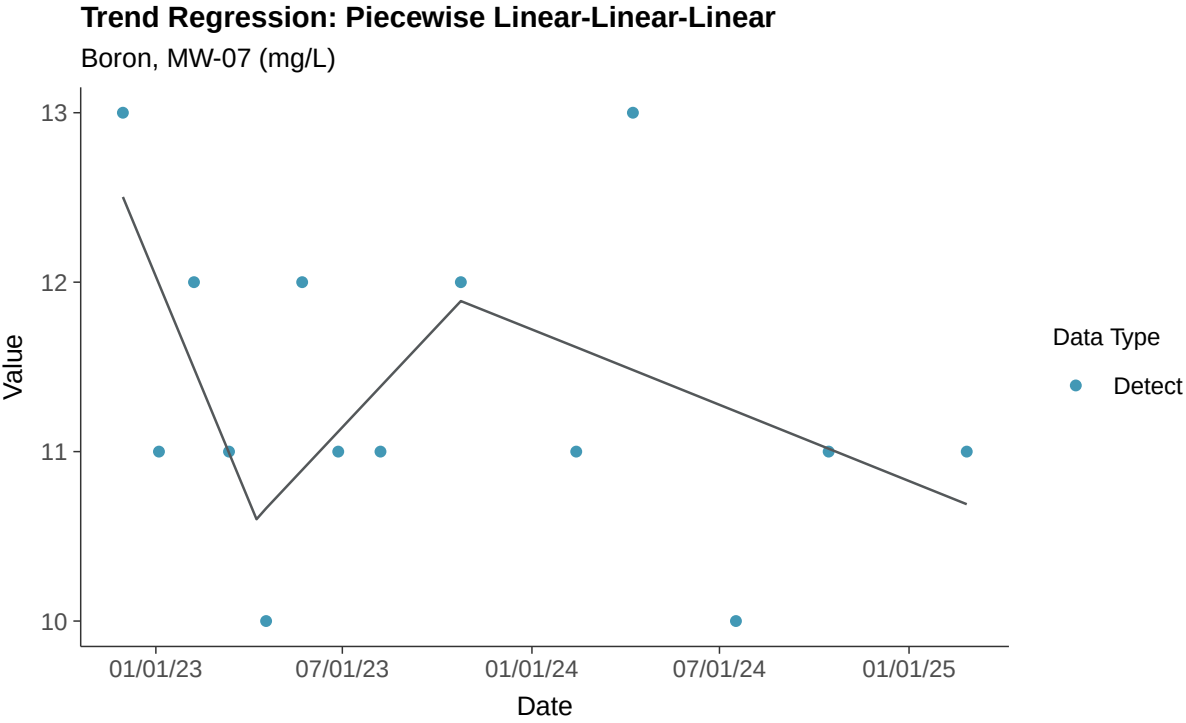
Appendix III: Boron, MW-07

ID: 17_1_3_105





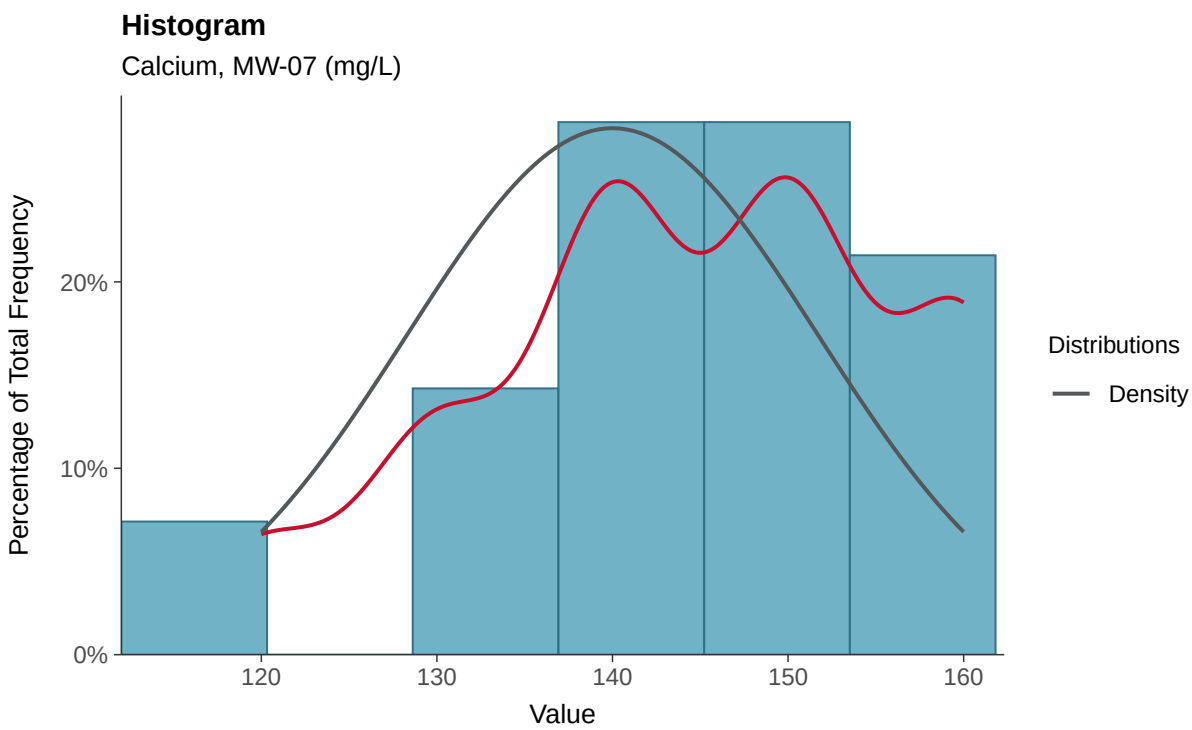
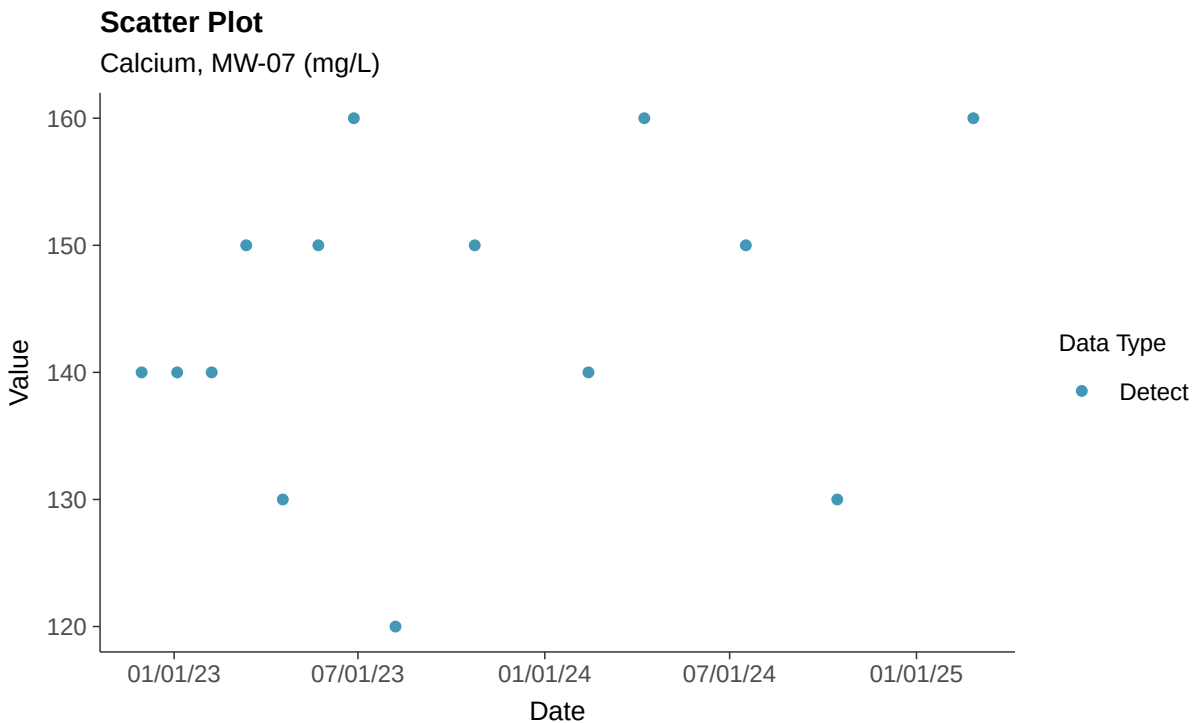


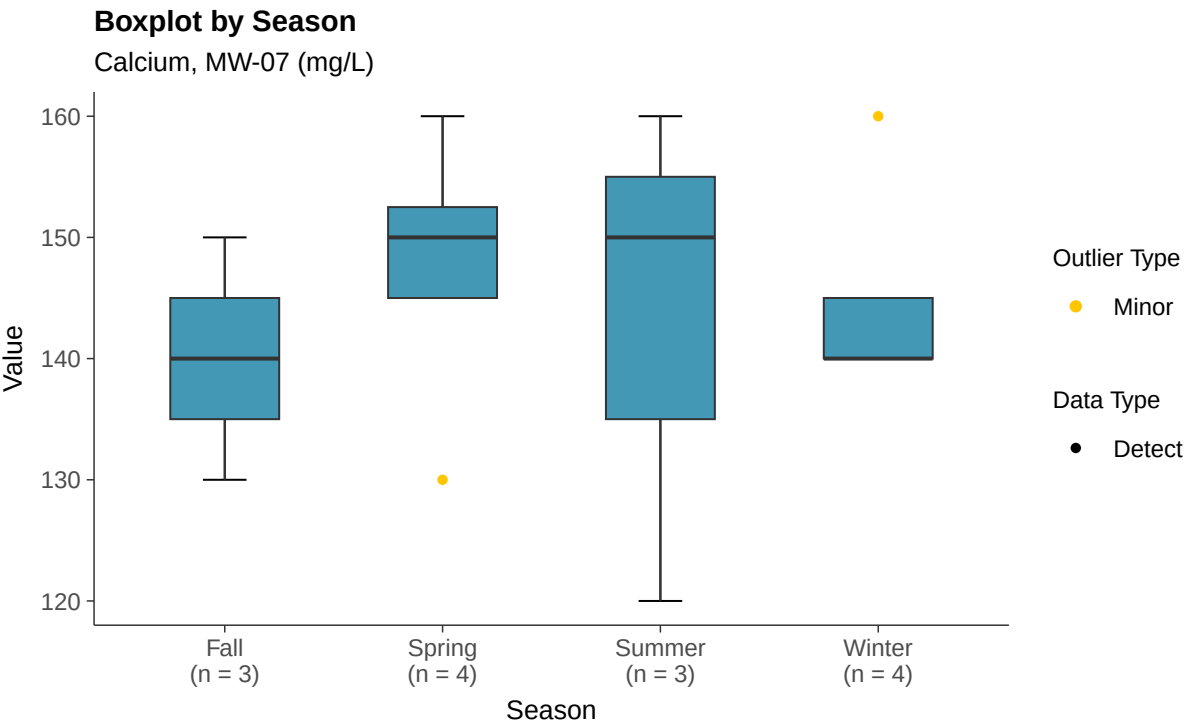
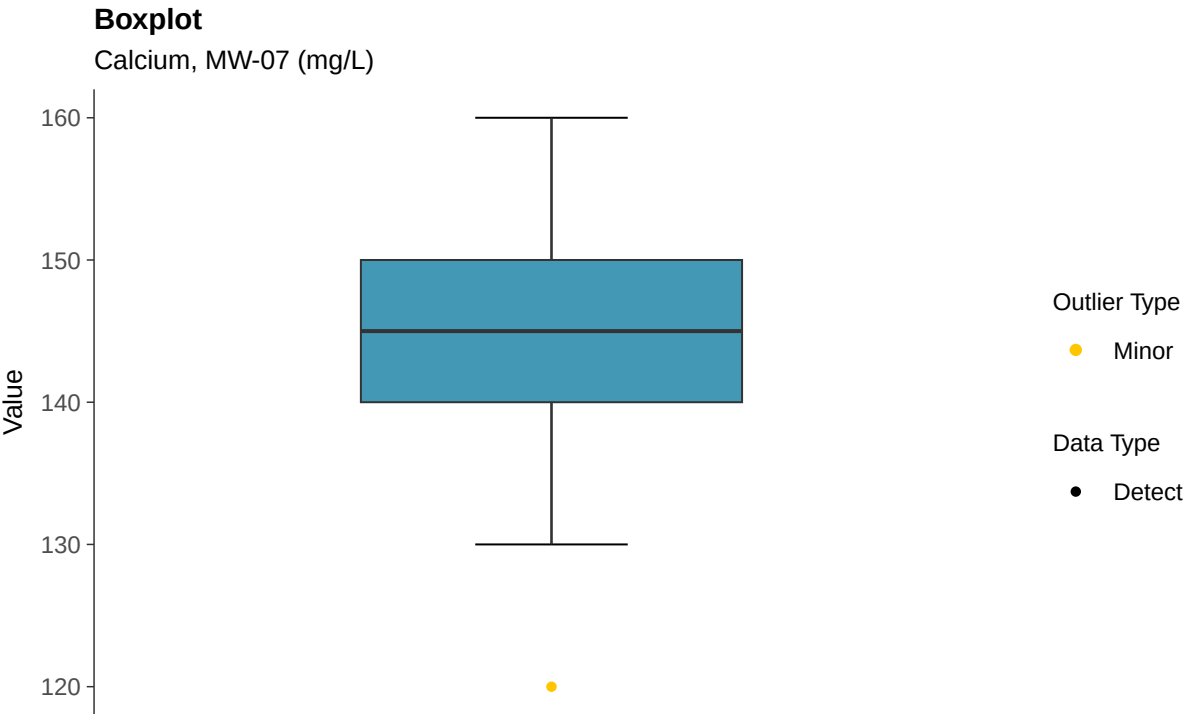


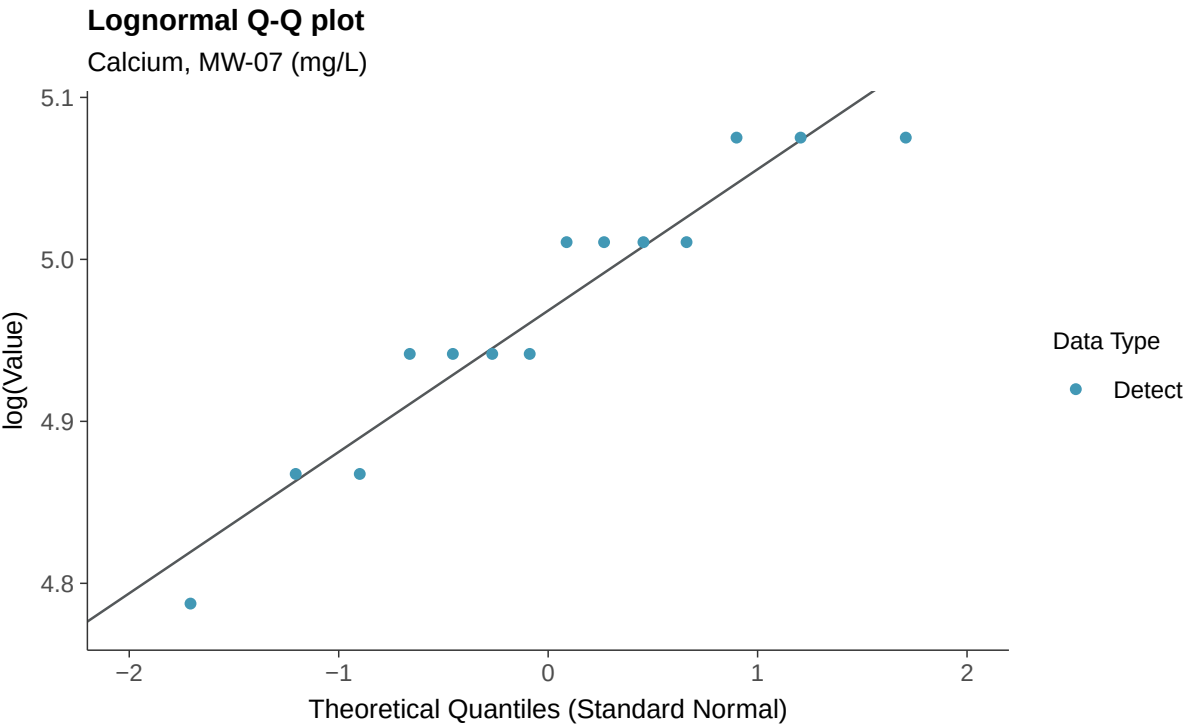
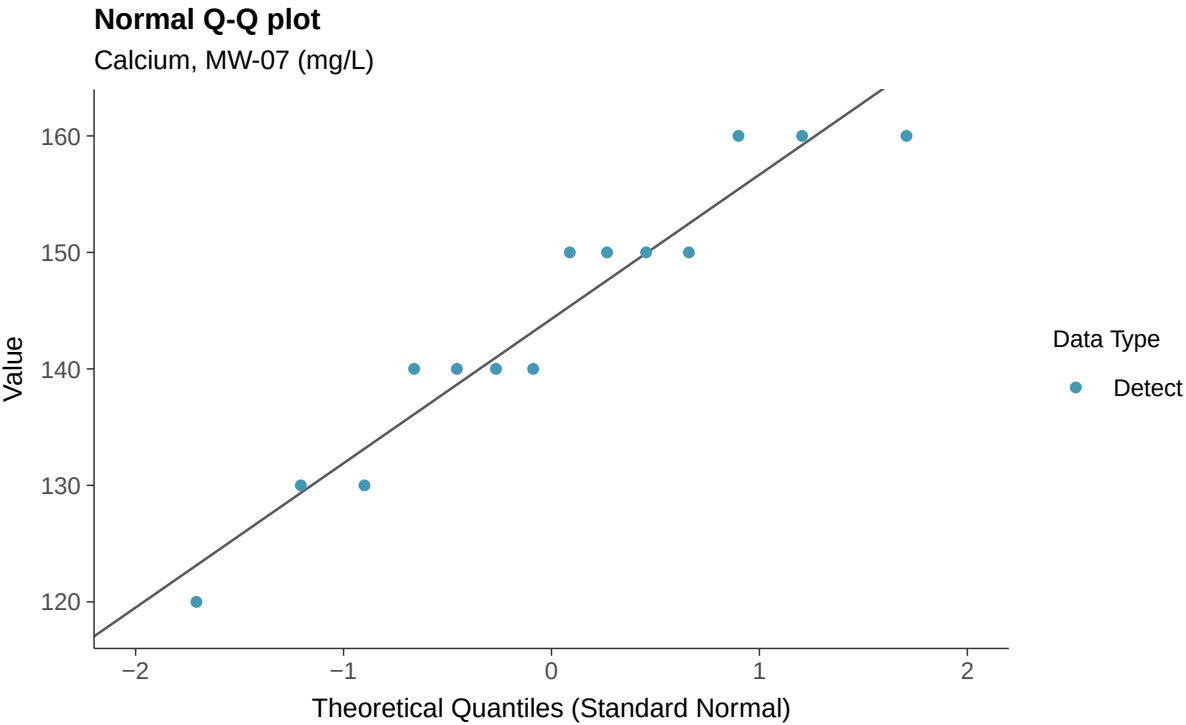


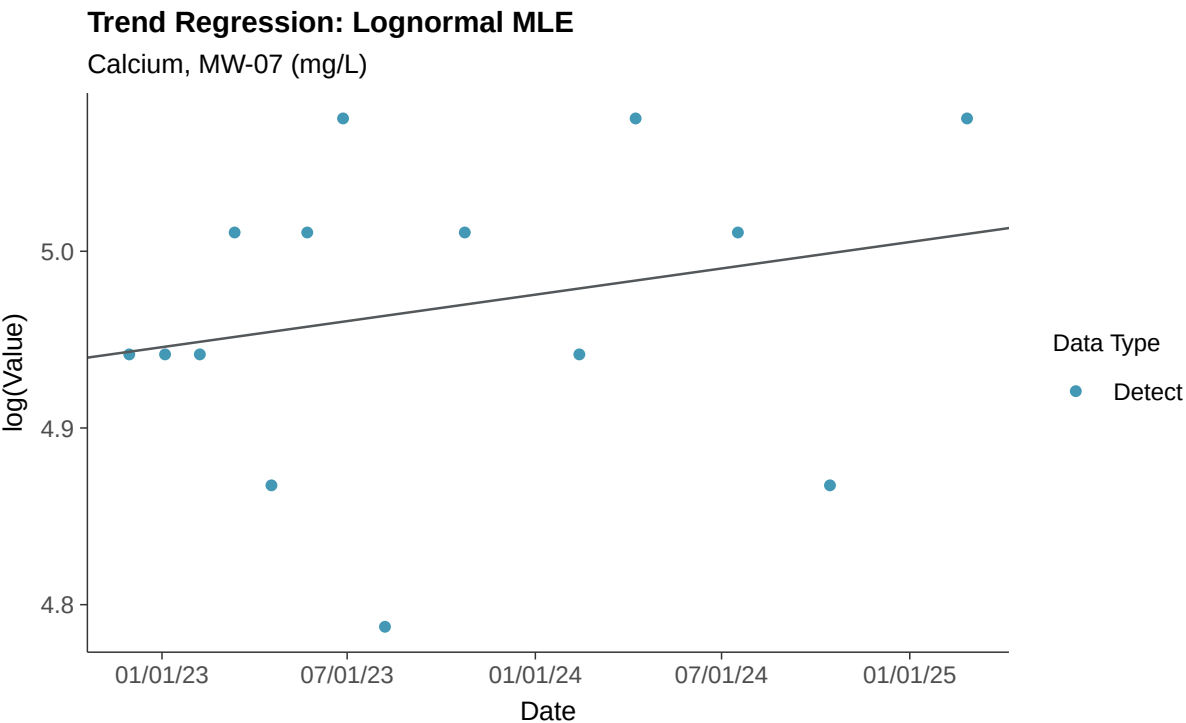
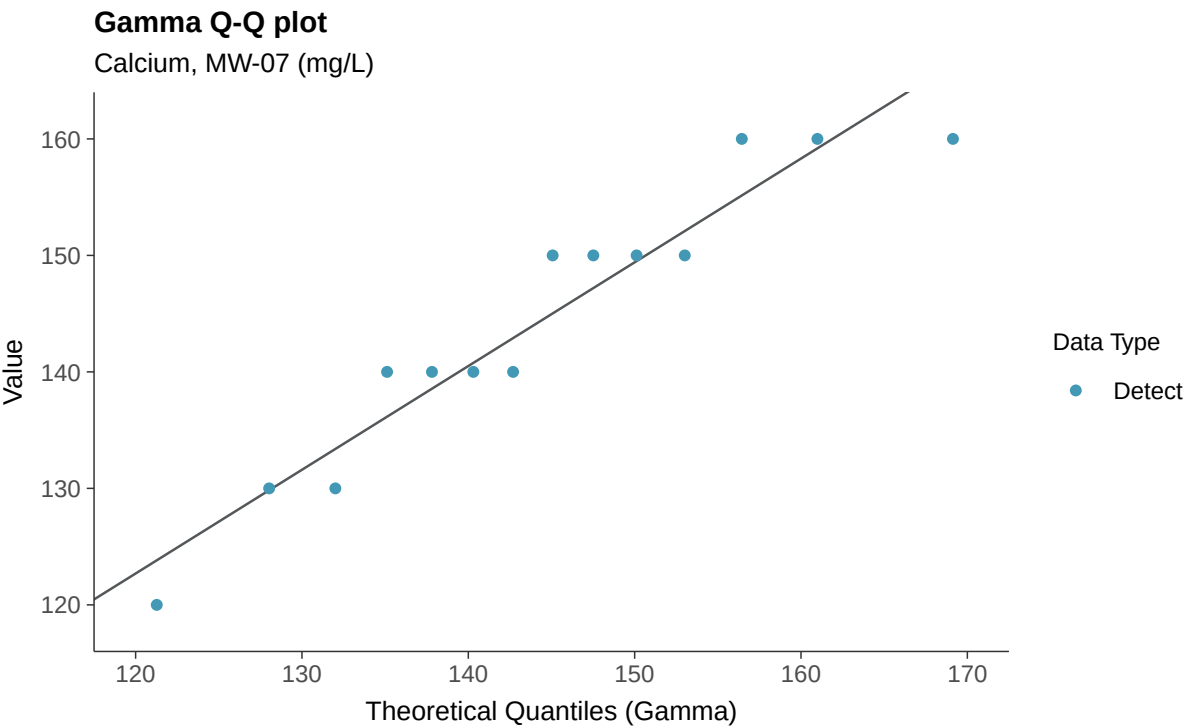
Appendix III: Calcium, MW-07

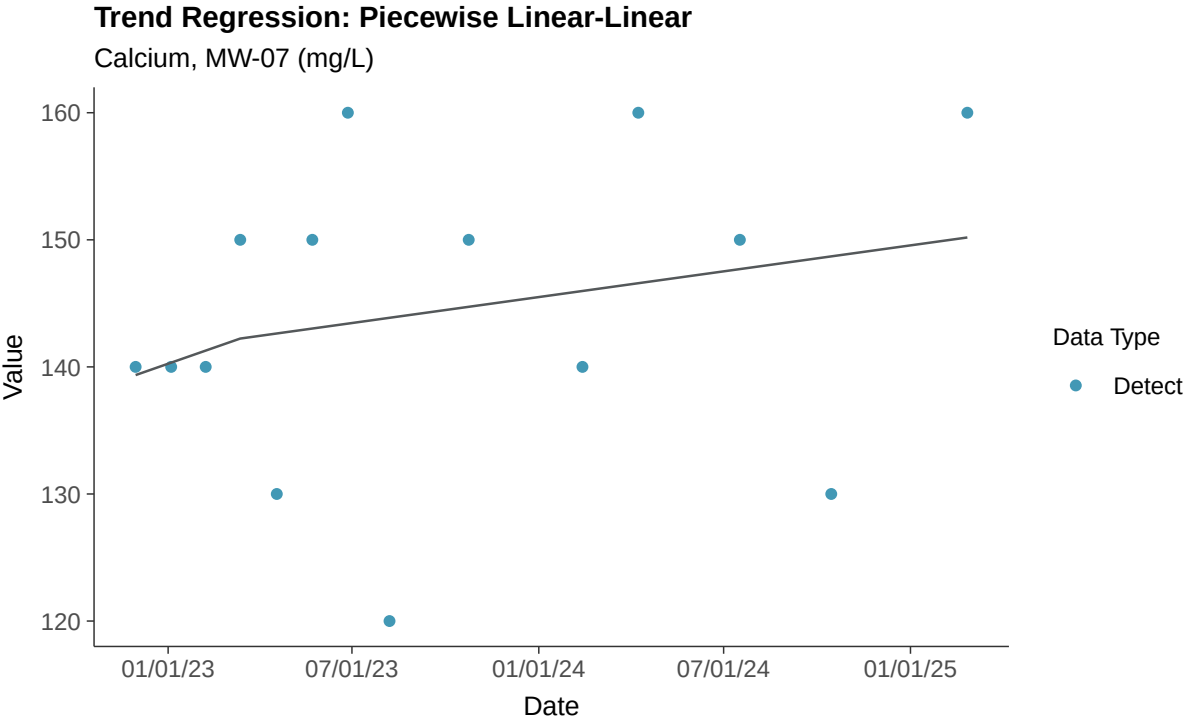
ID: 17_1_3_107







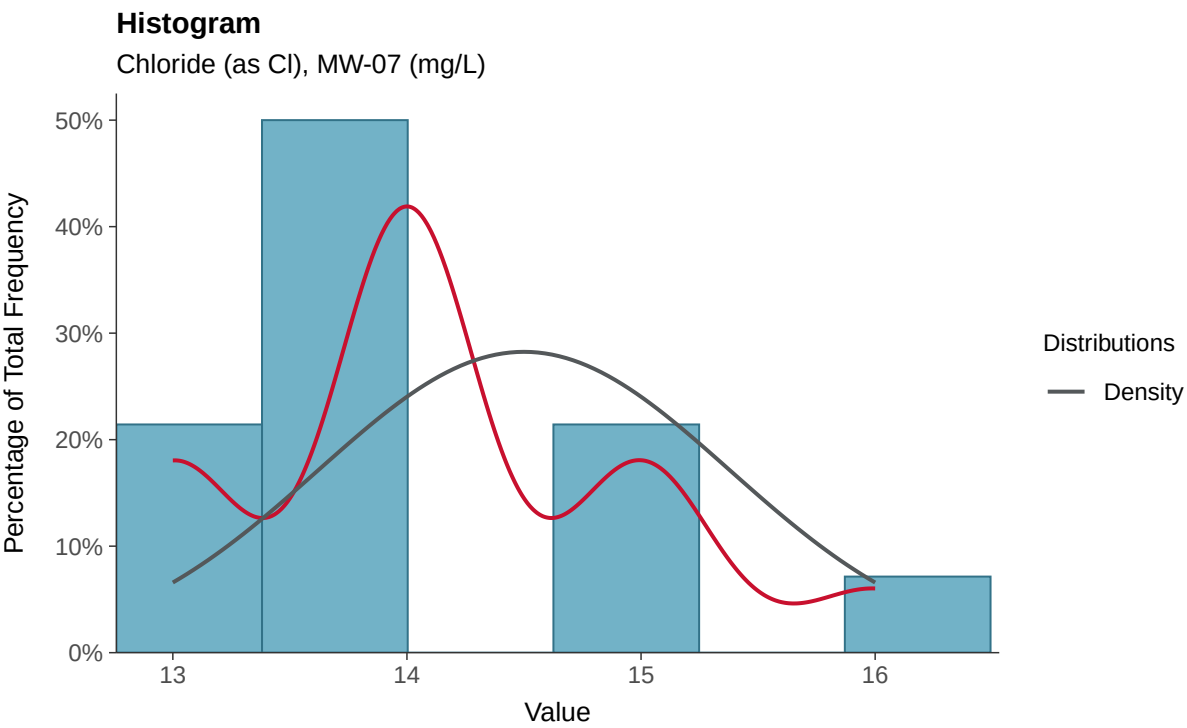
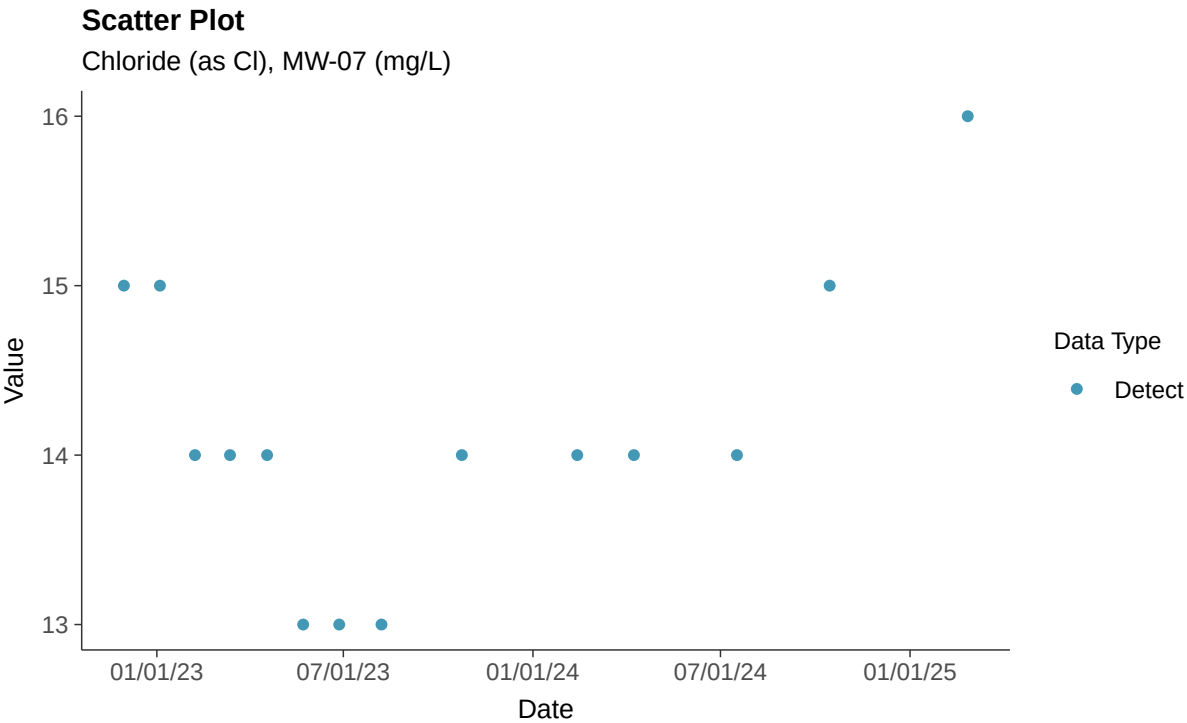


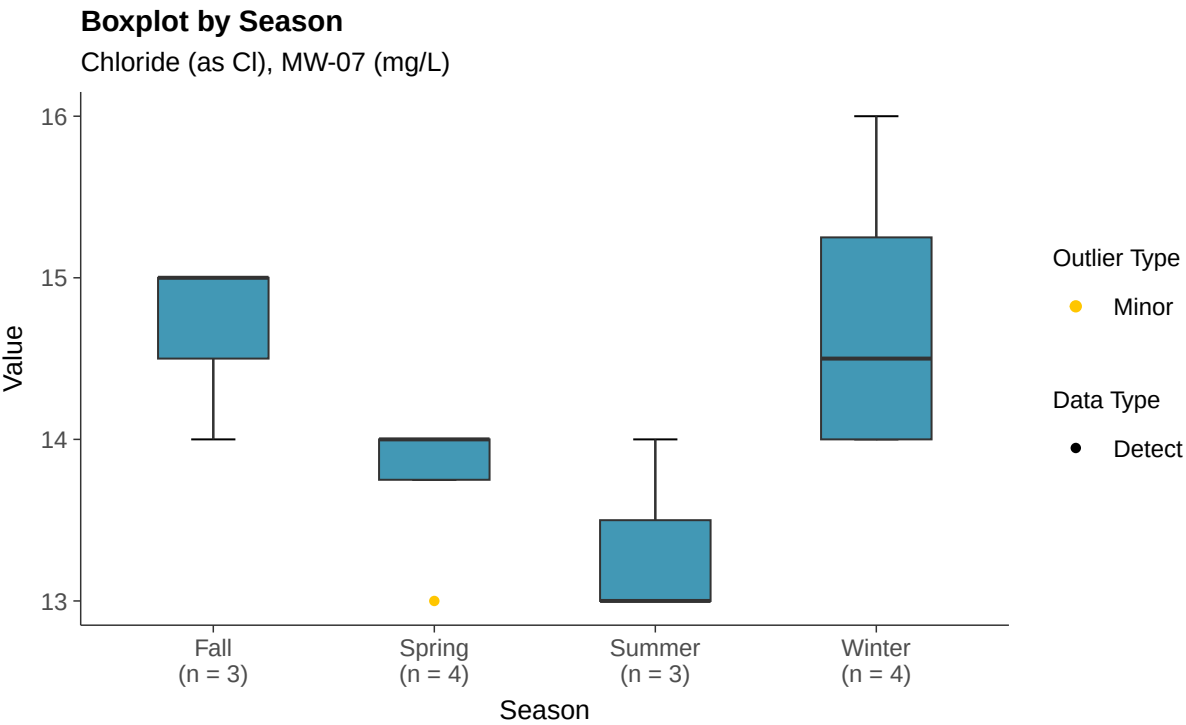
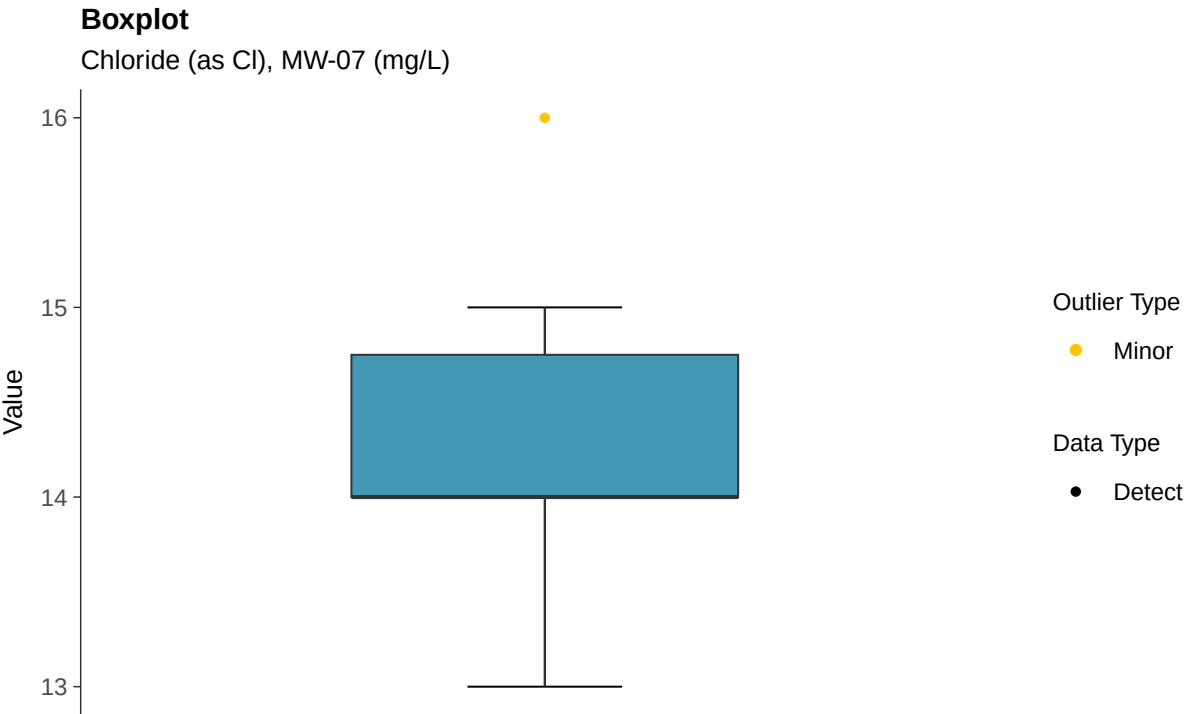


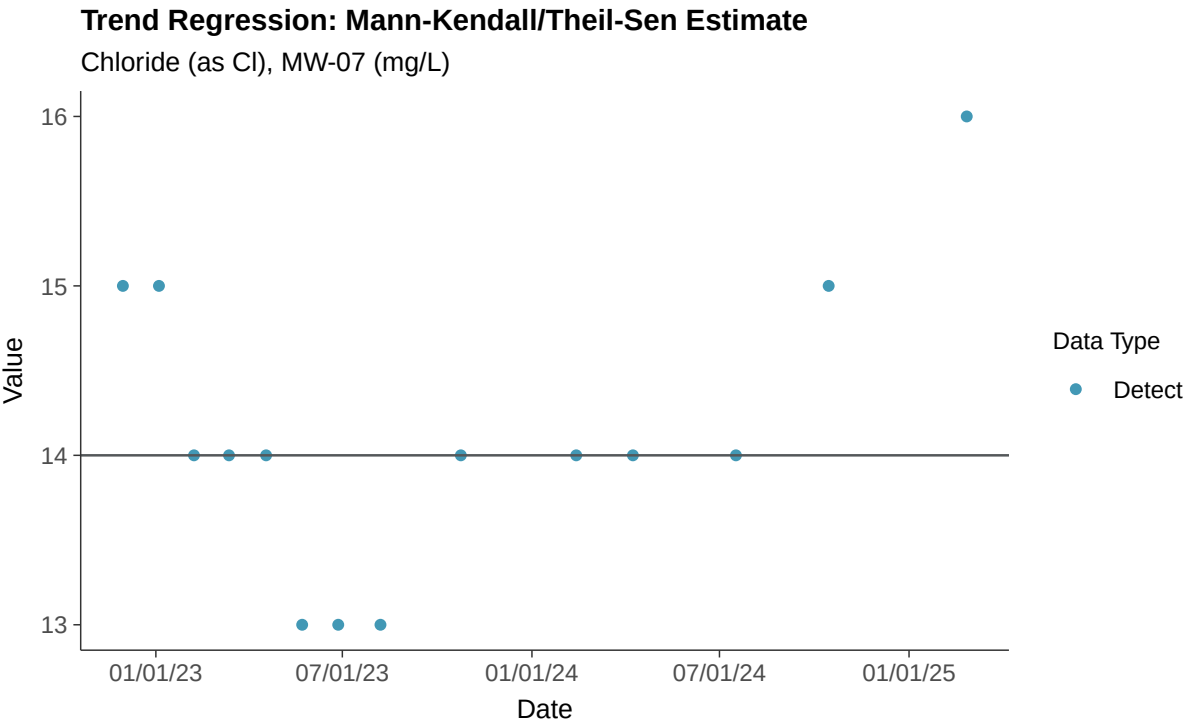
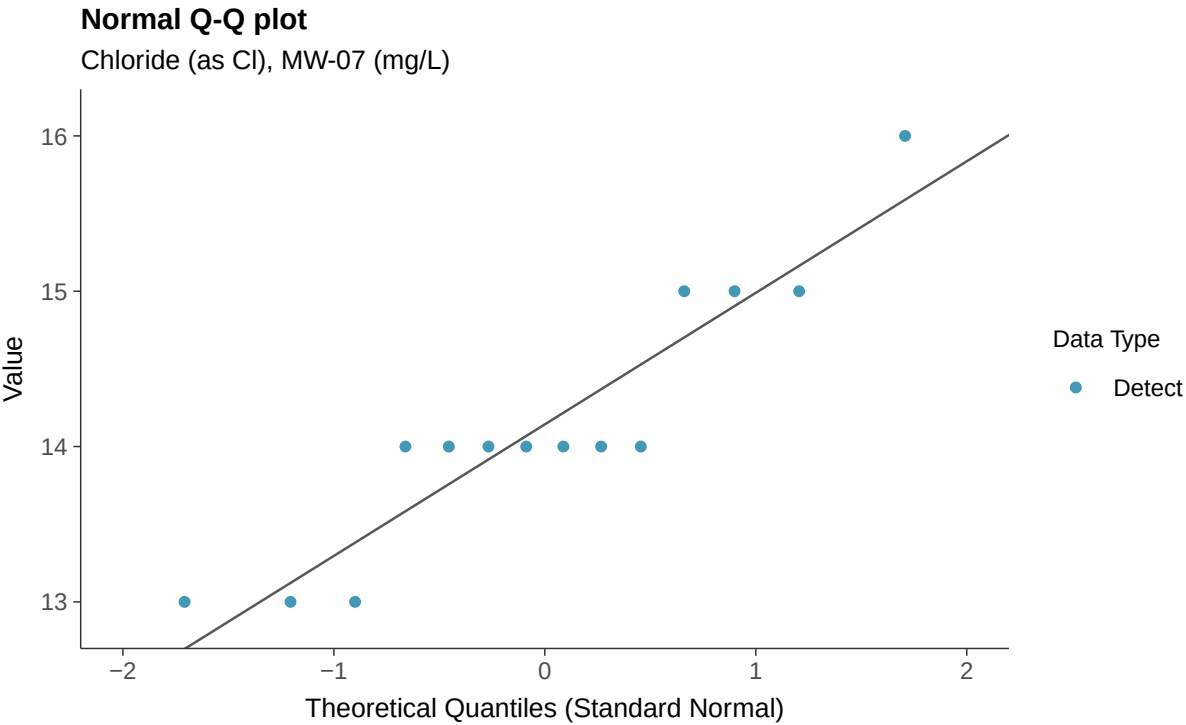


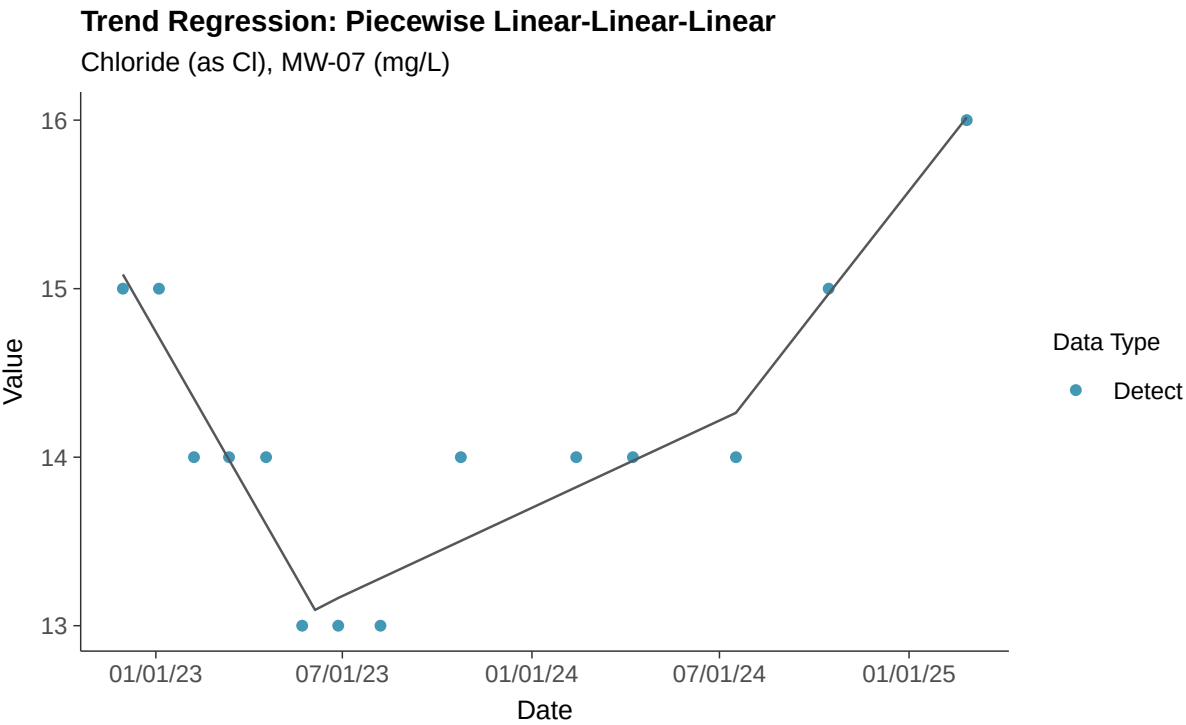
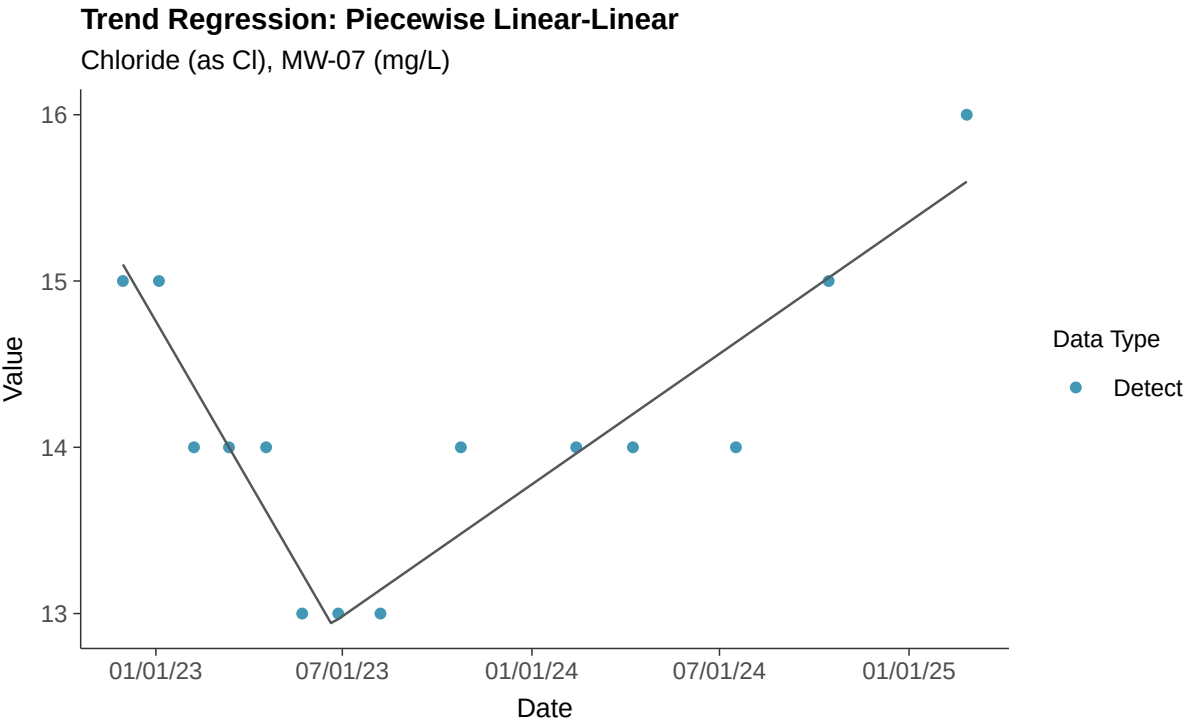
Appendix III: Chloride (as Cl), MW-07

ID: 17_1_3_108





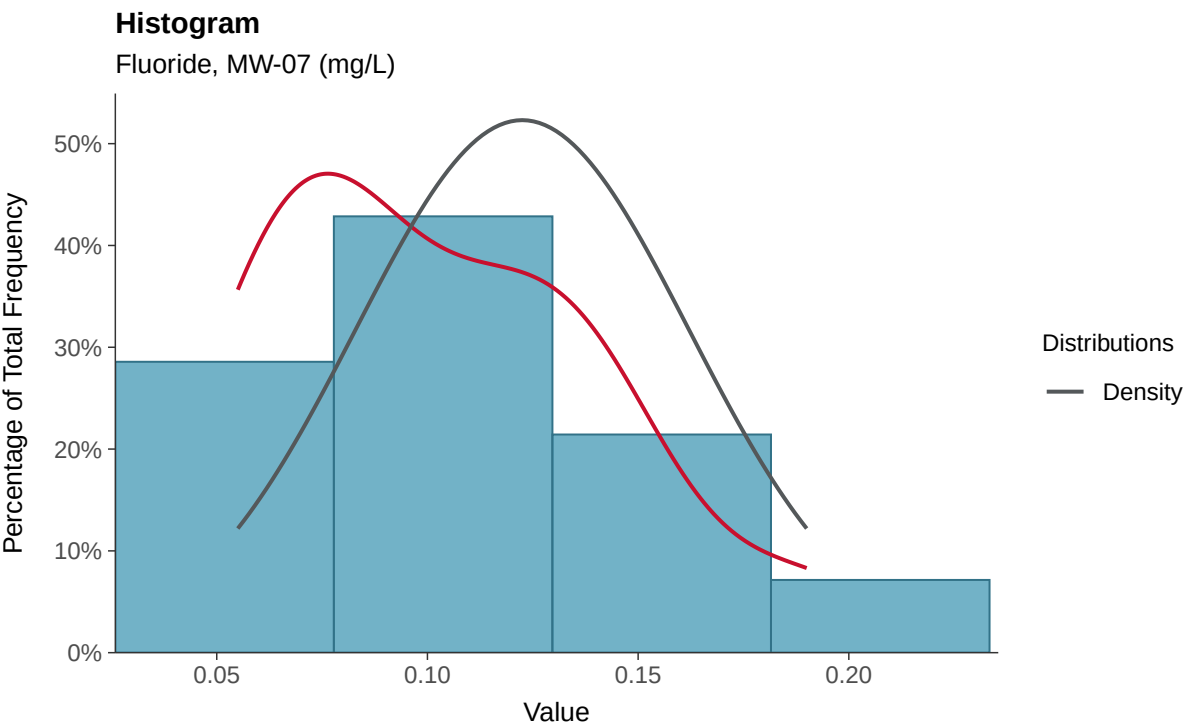
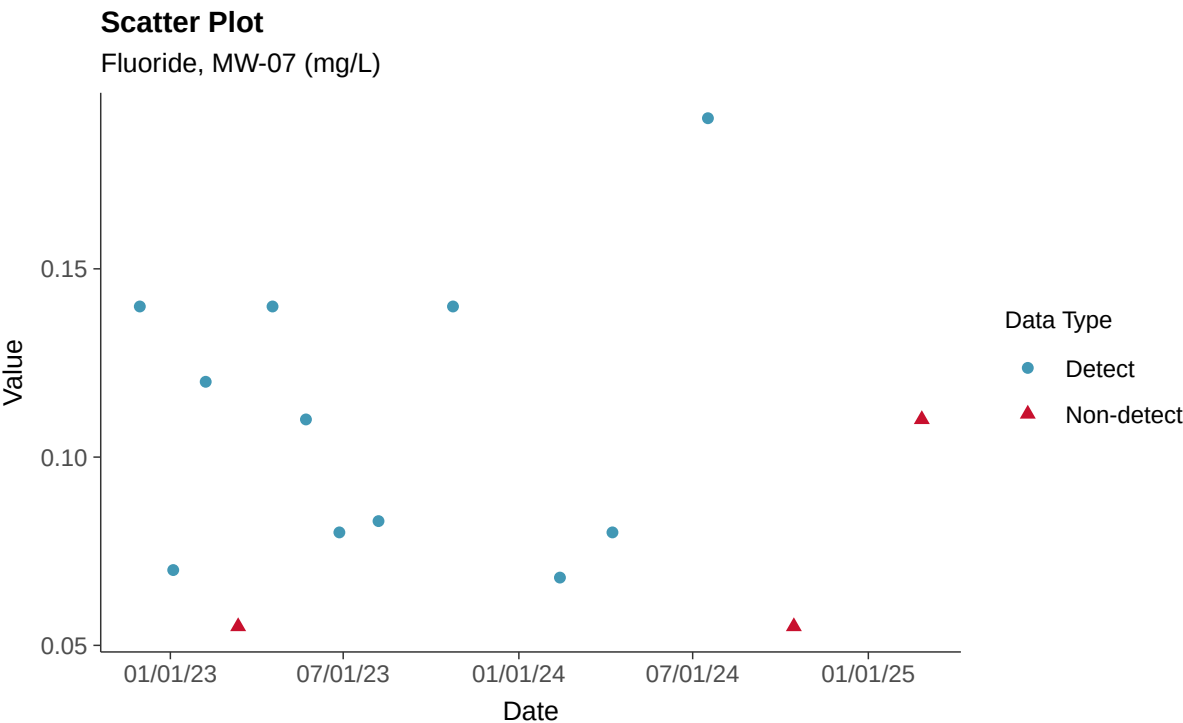


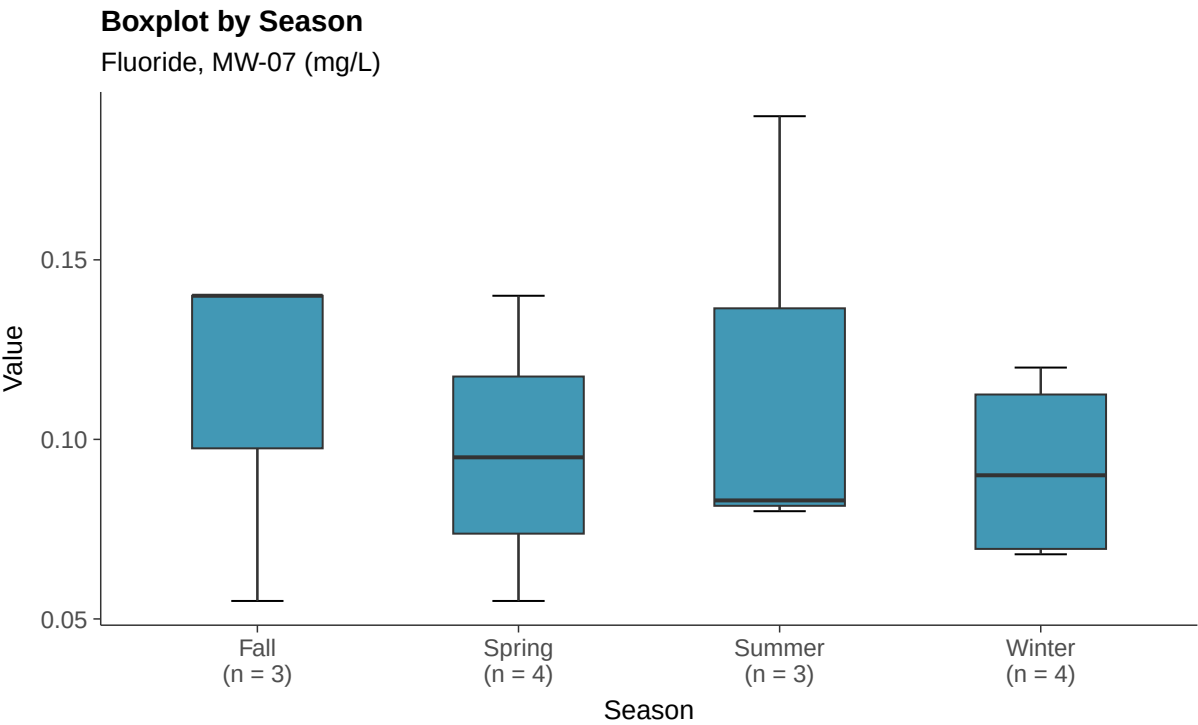
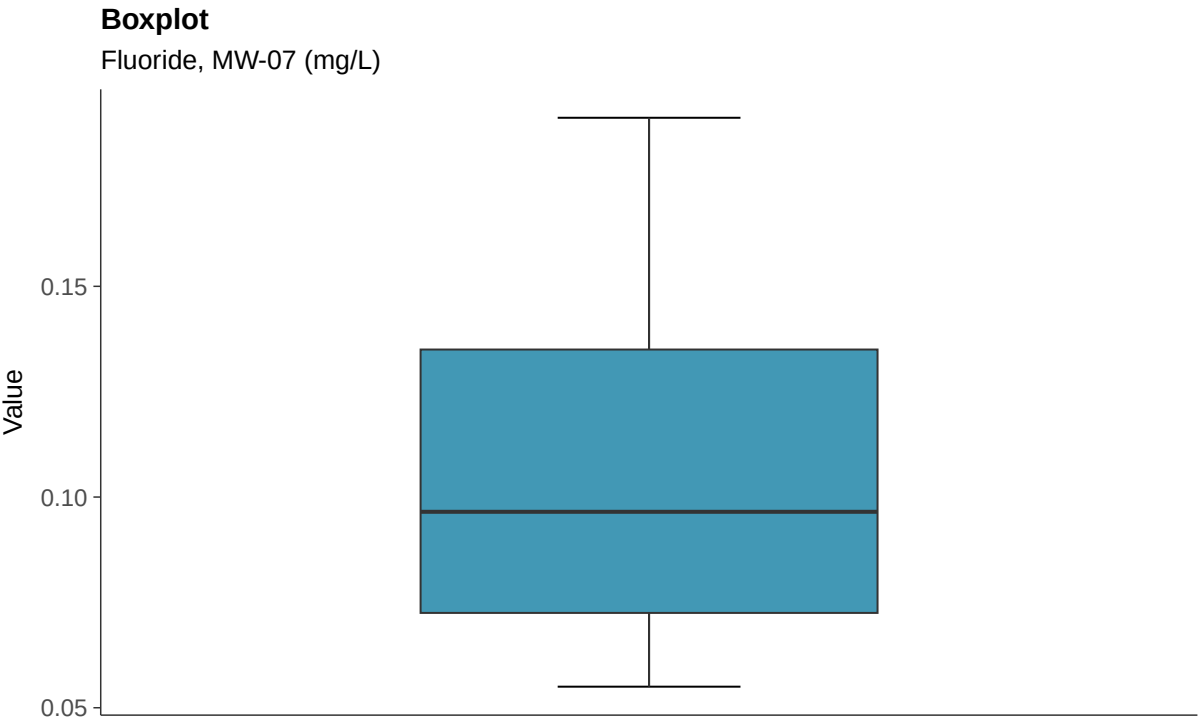




Appendix III: Fluoride, MW-07

ID: 17_1_3_112

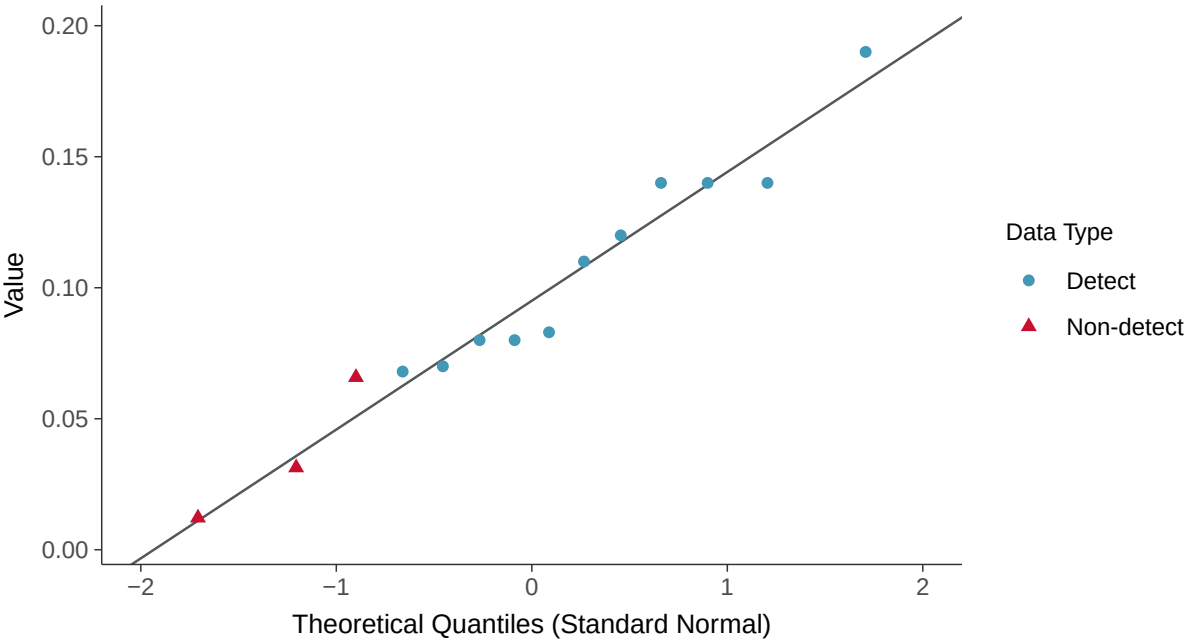






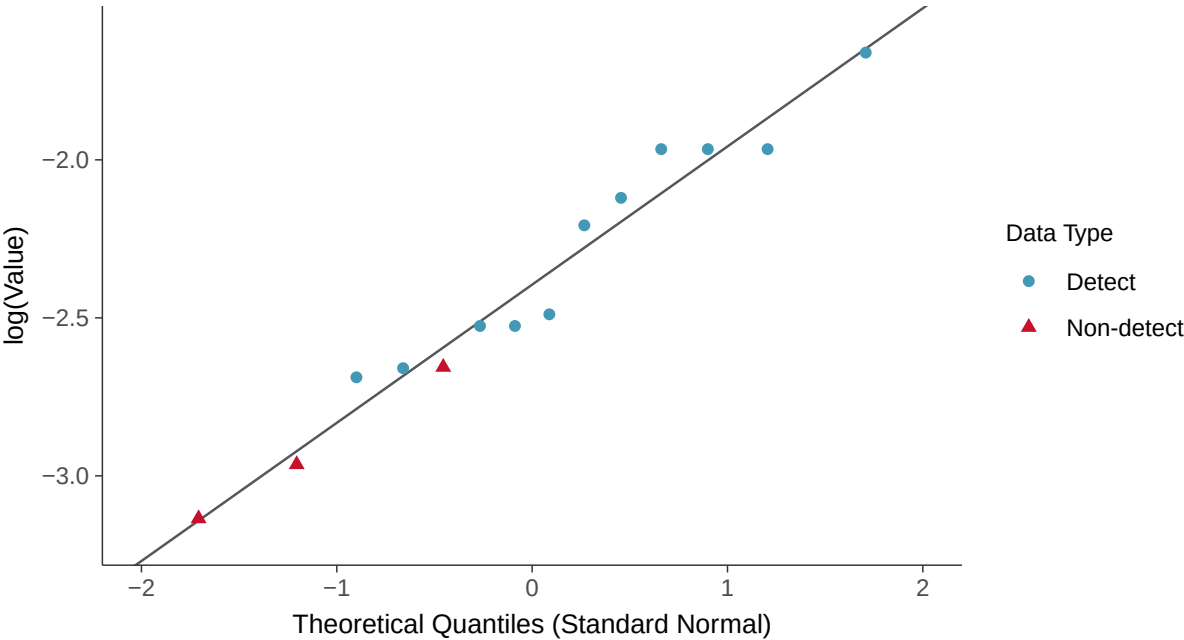
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-07 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

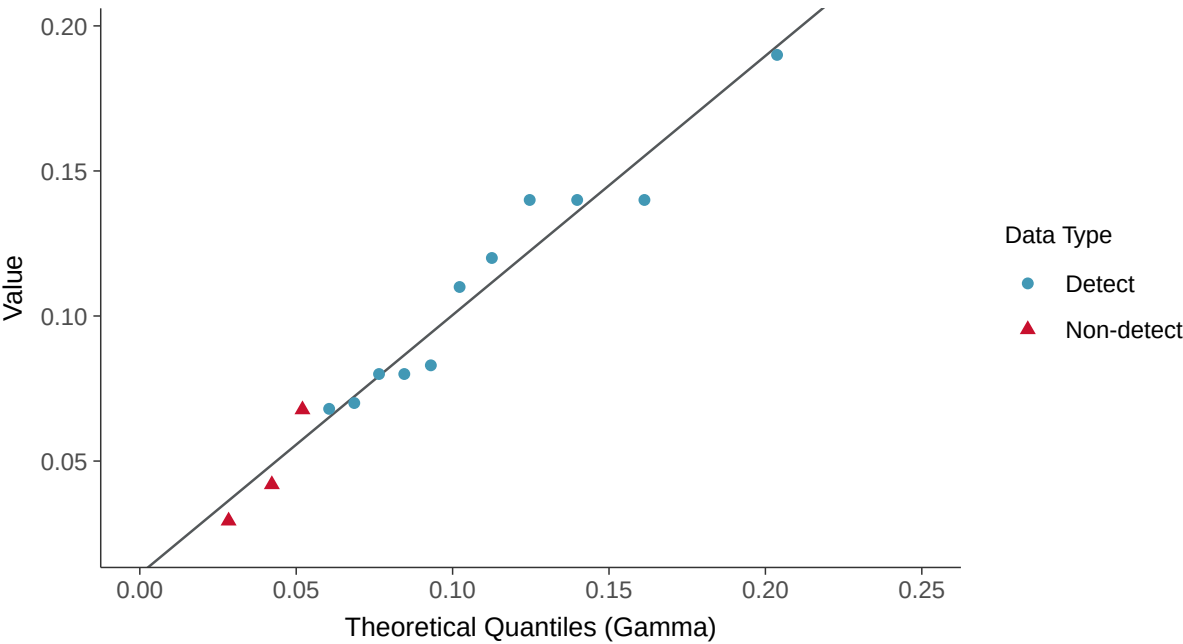
Fluoride, MW-07 (mg/L)





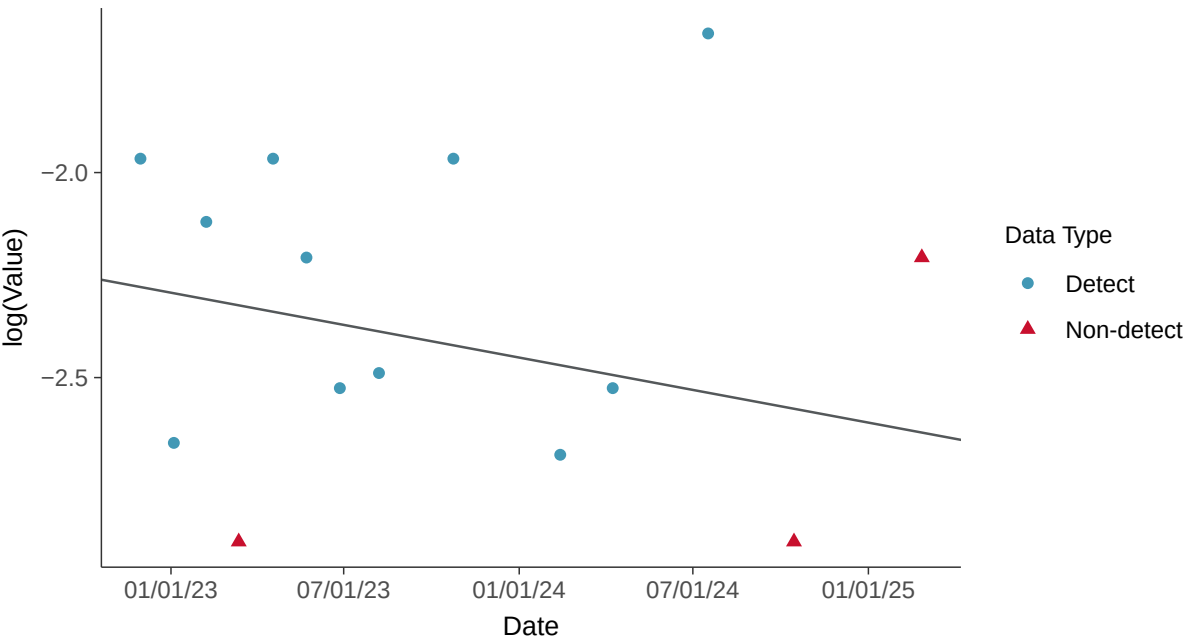
Gamma Q-Q plot using ROS Imputed Estimates

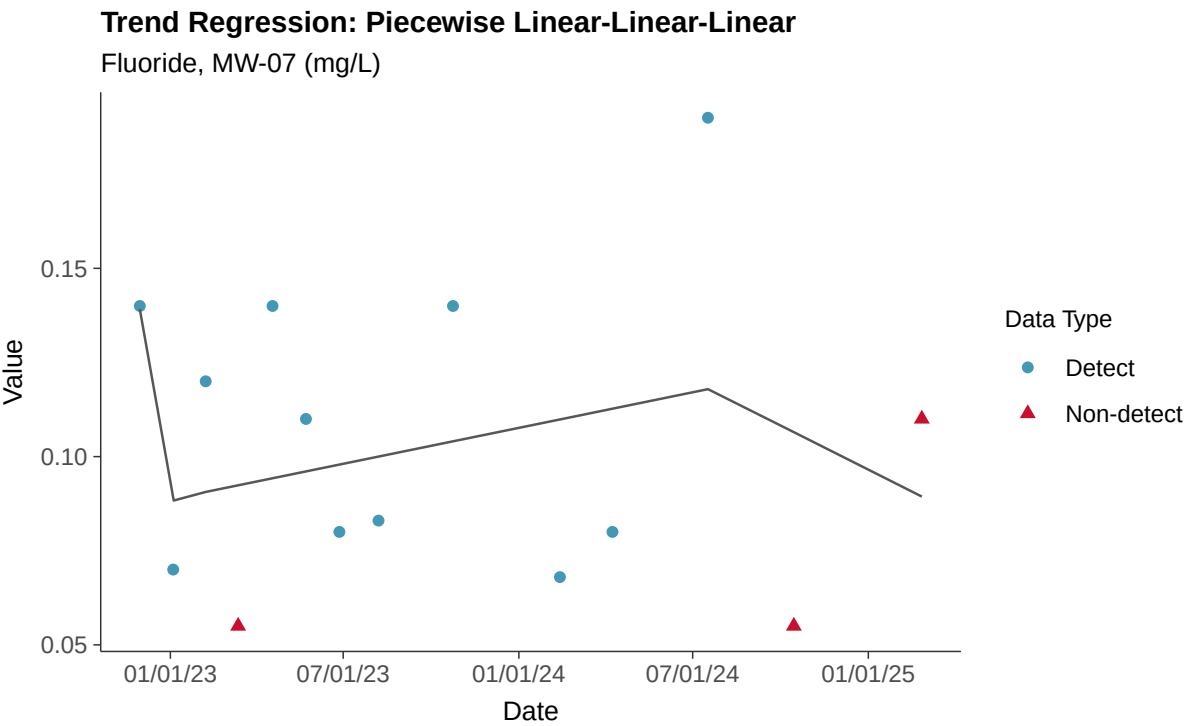
Fluoride, MW-07 (mg/L)



Trend Regression: Lognormal MLE

Fluoride, MW-07 (mg/L)

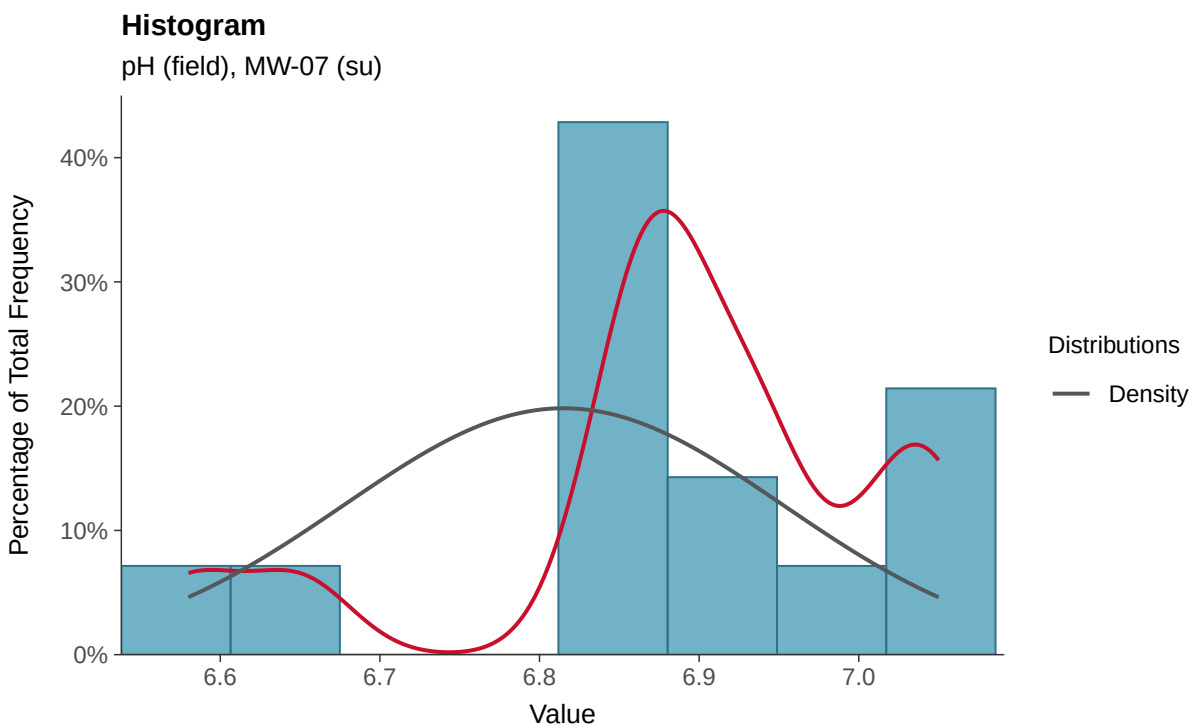
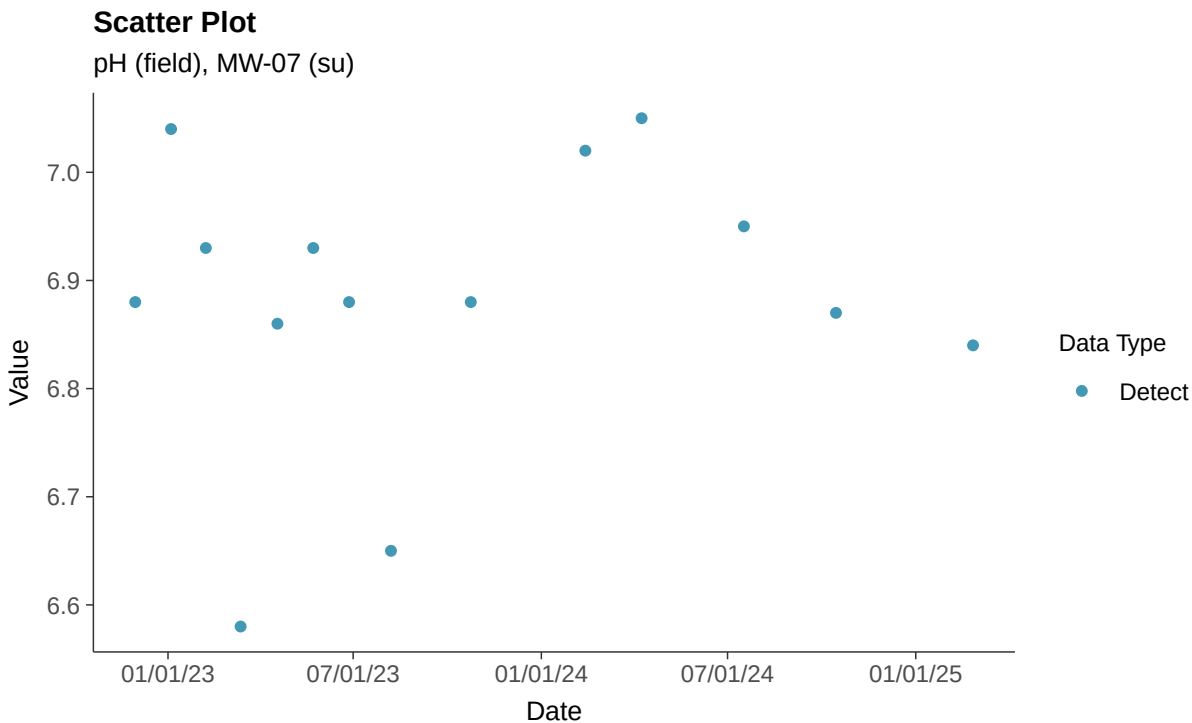


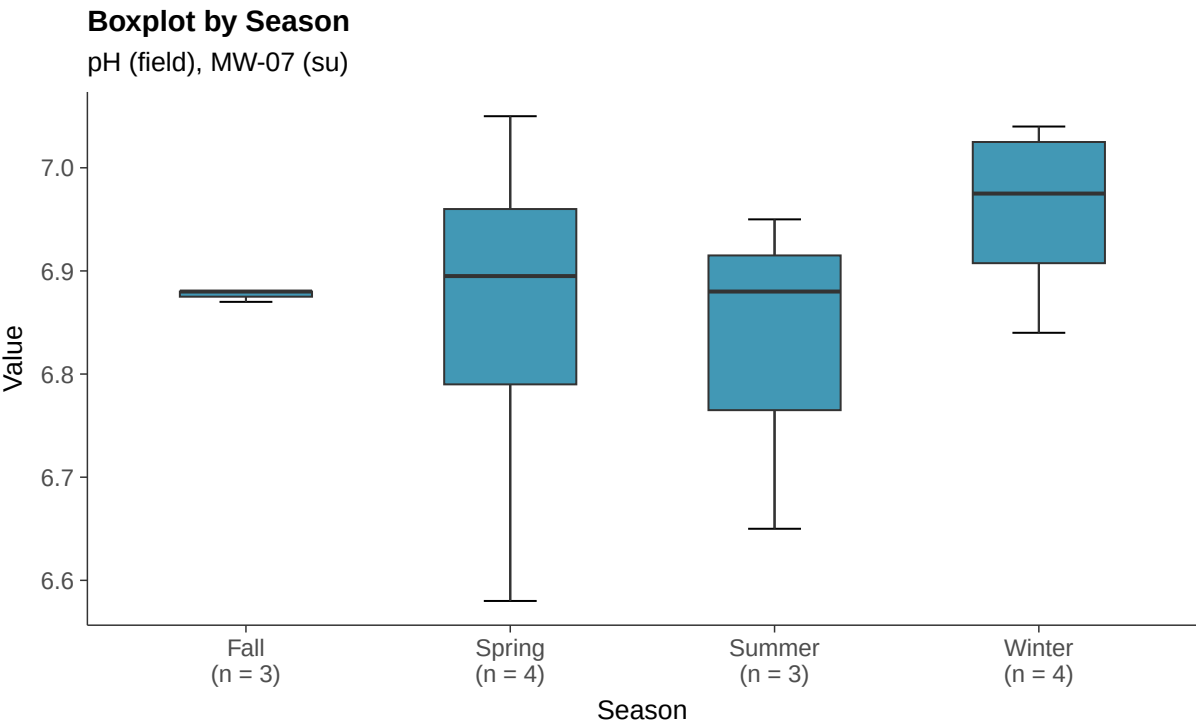
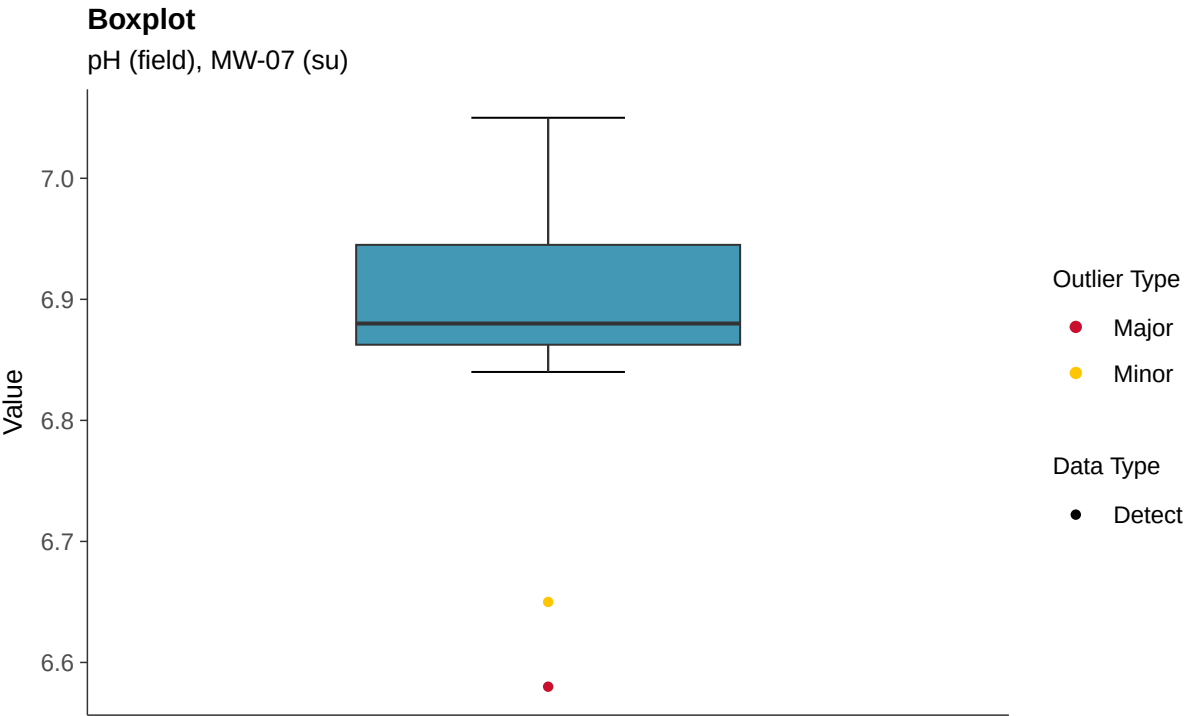


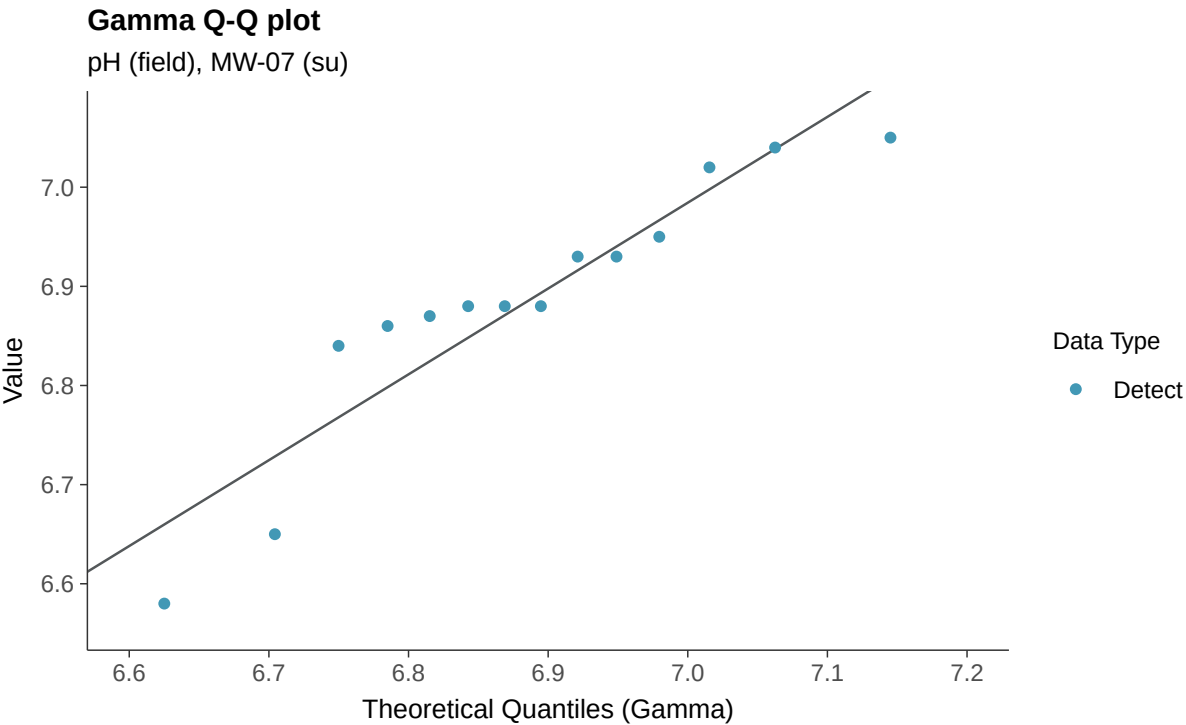
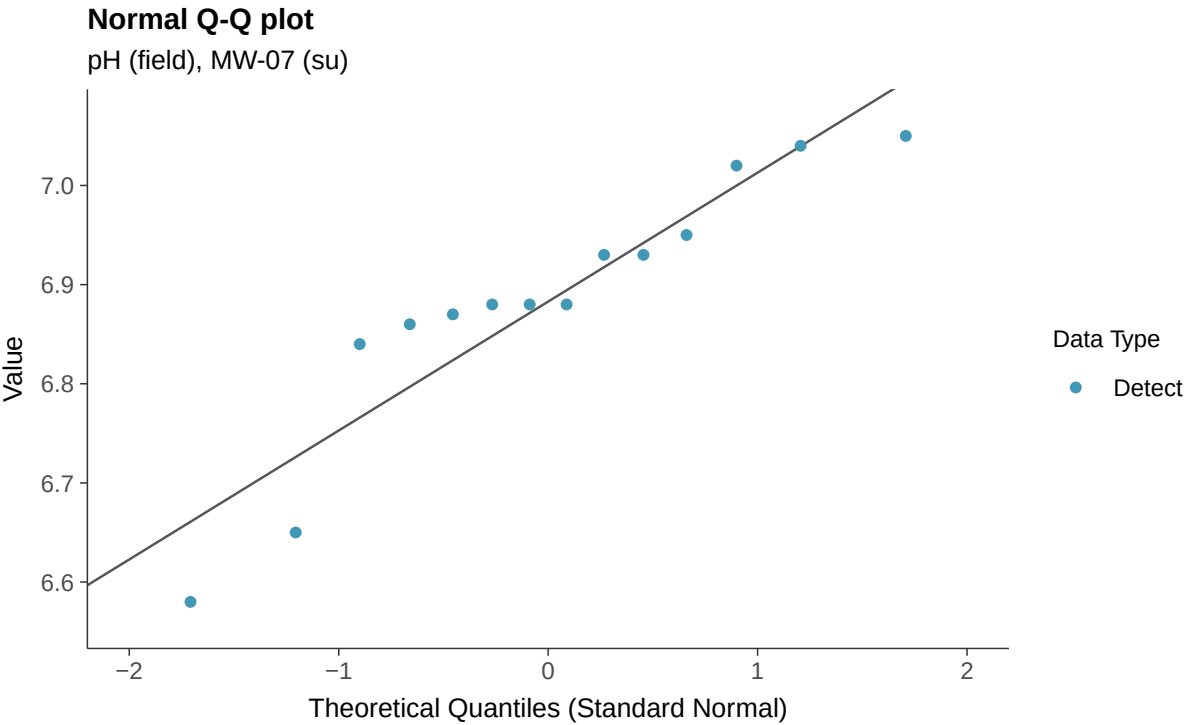


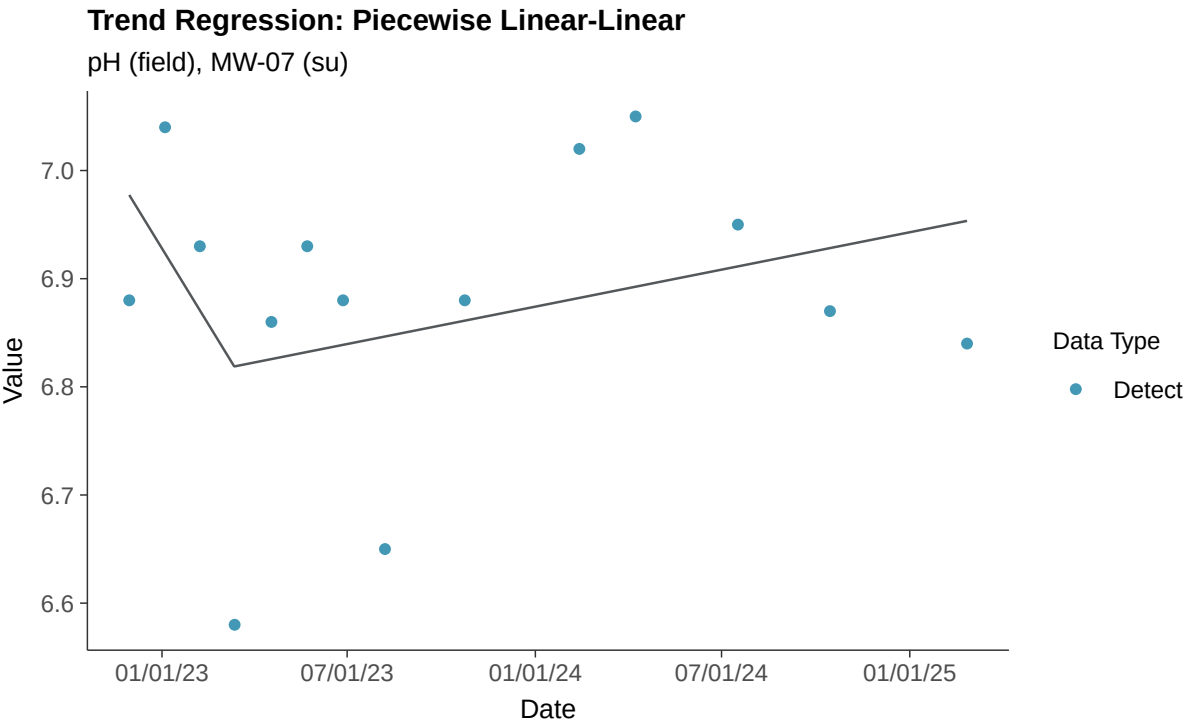
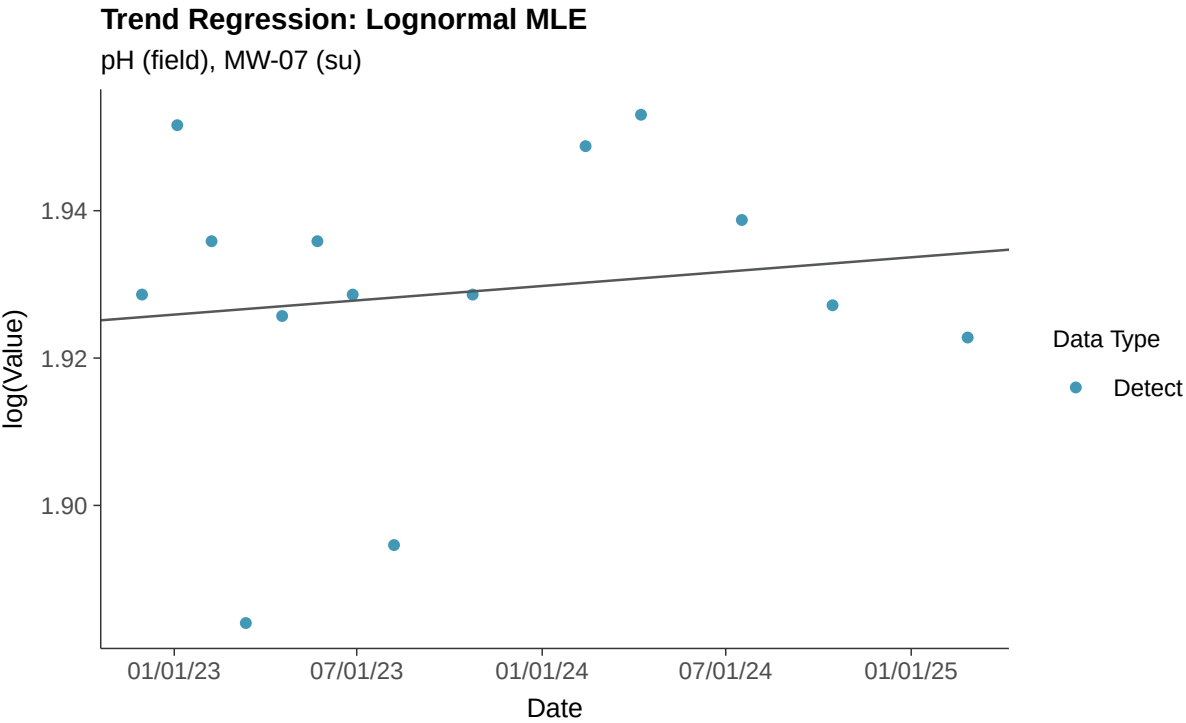
Appendix III: pH (field), MW-07

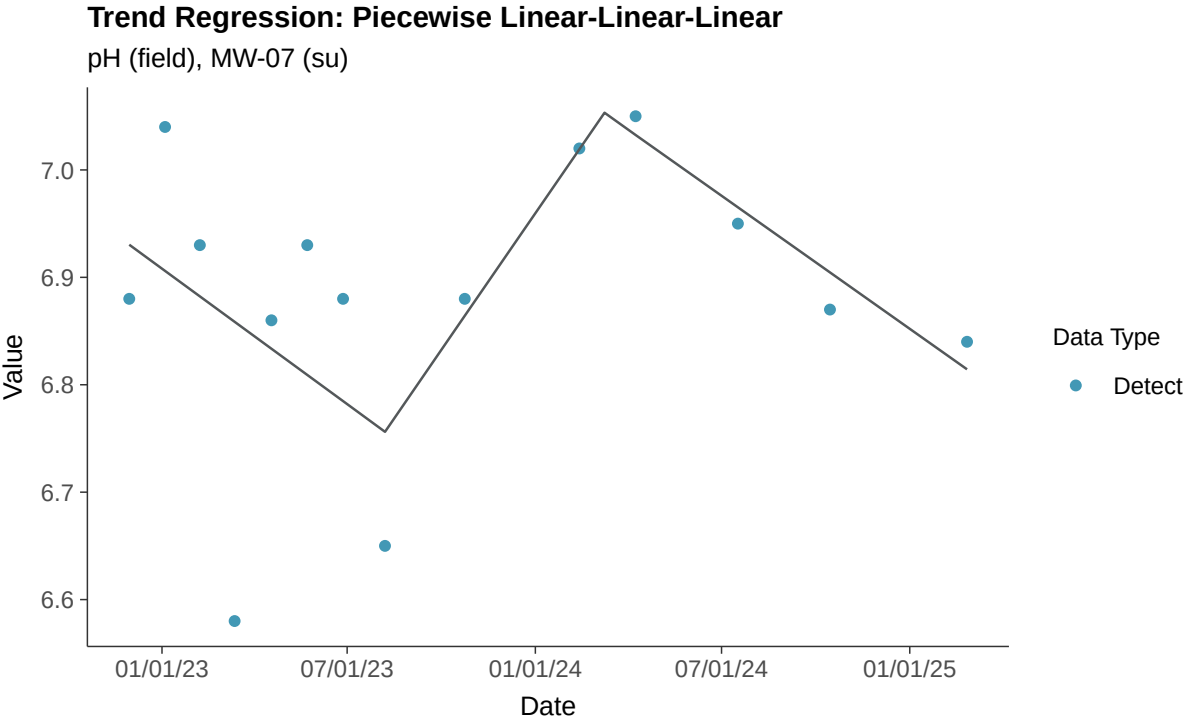
ID: 17_1_3_120







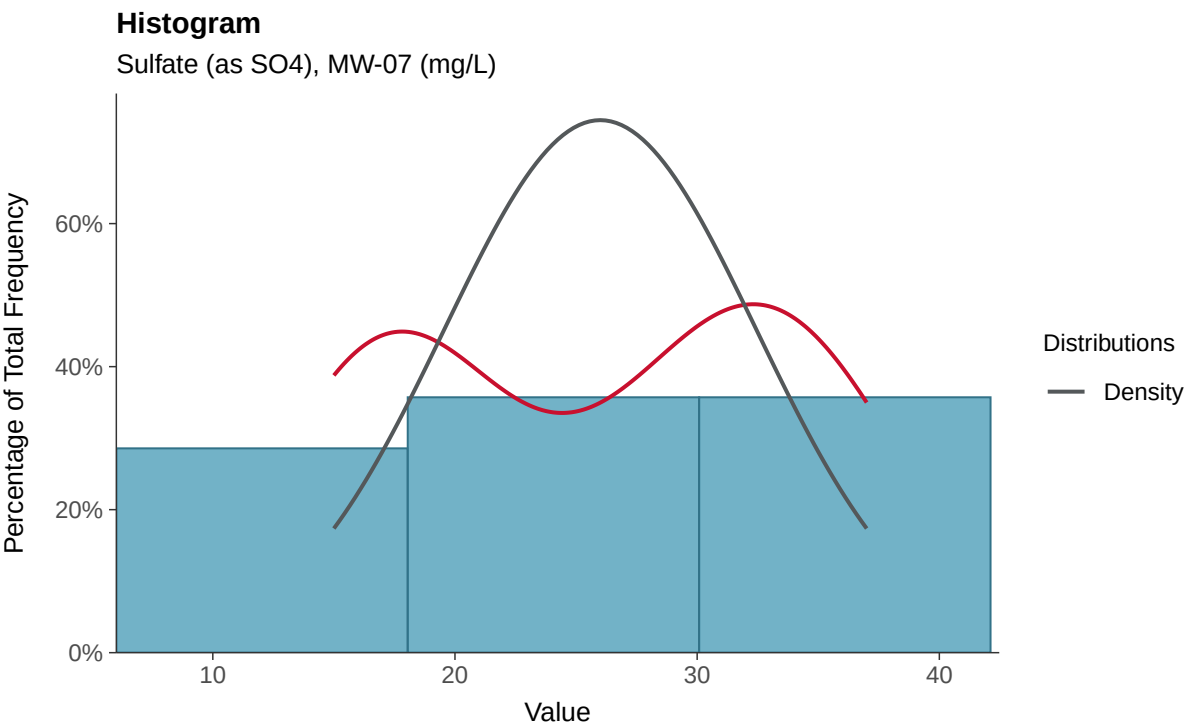
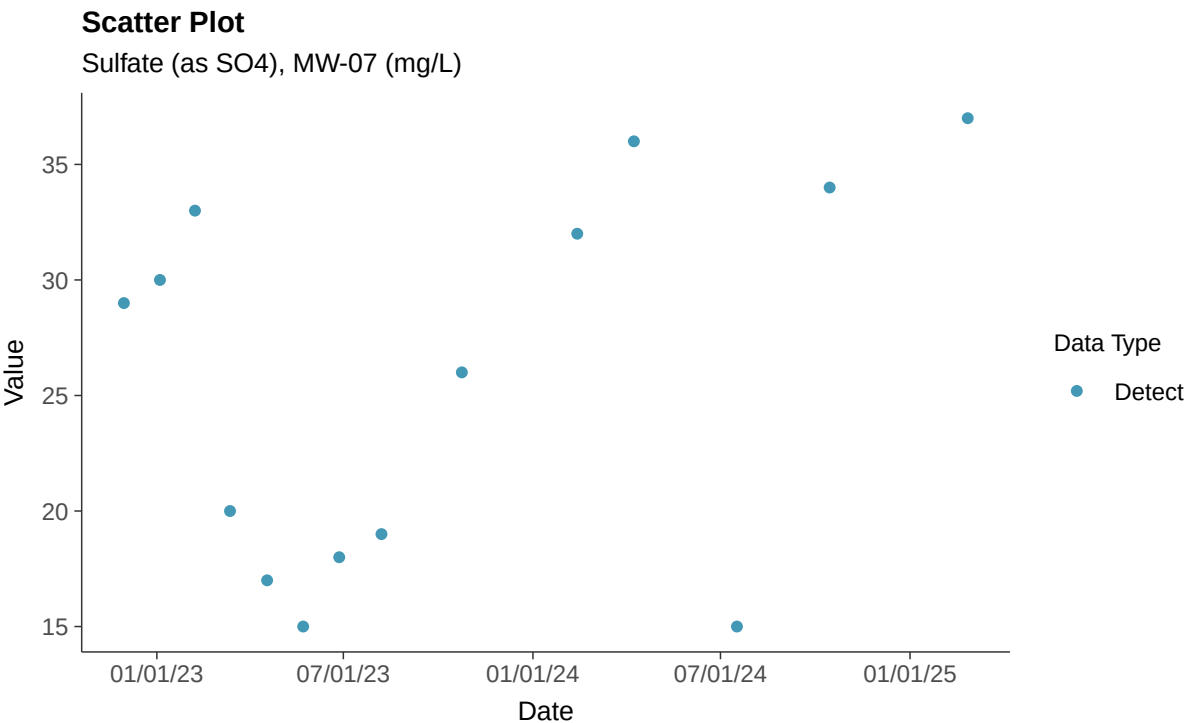


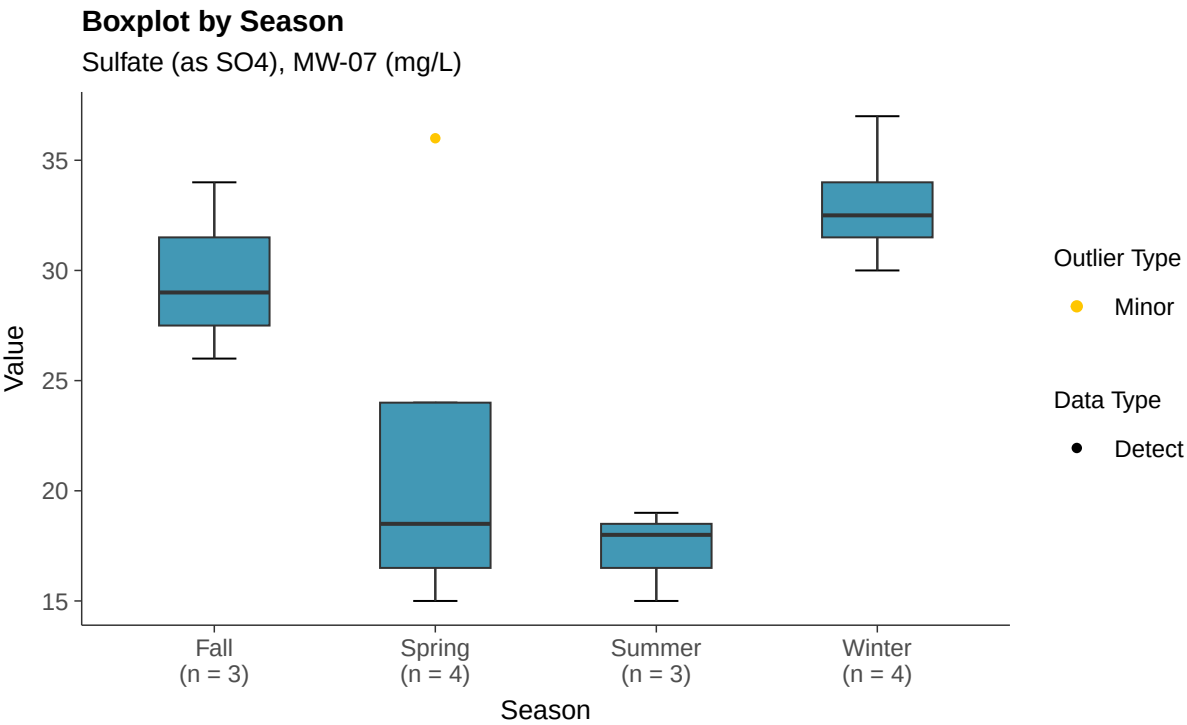
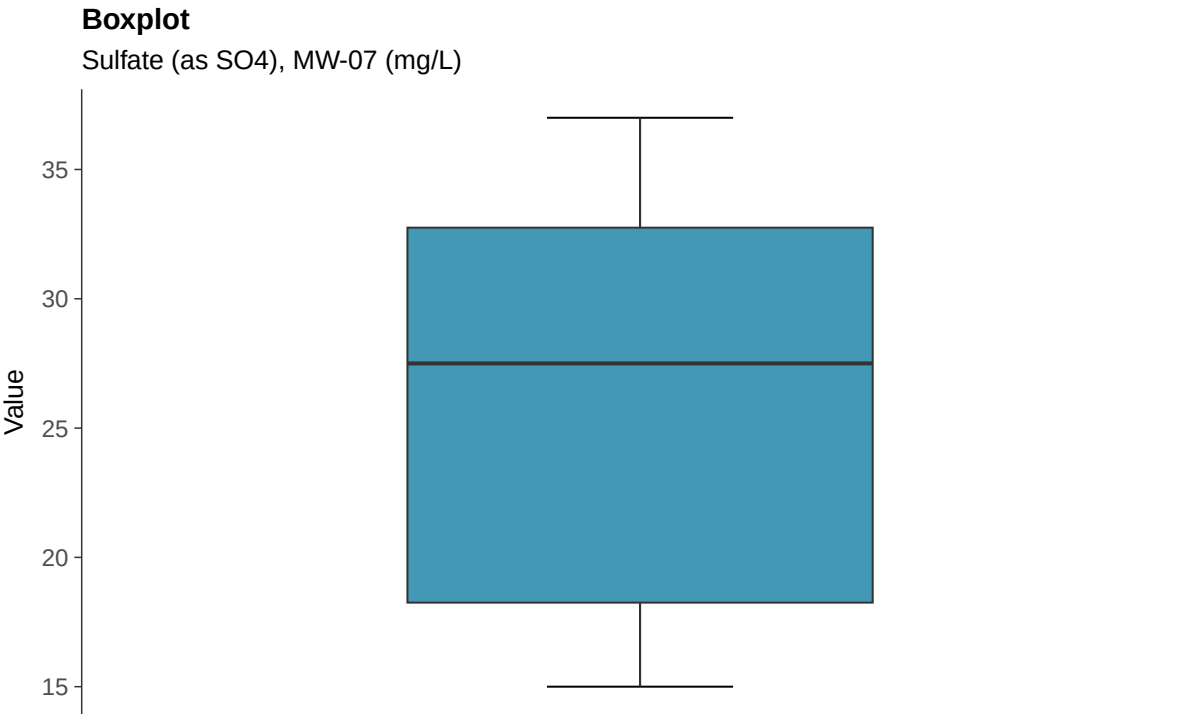


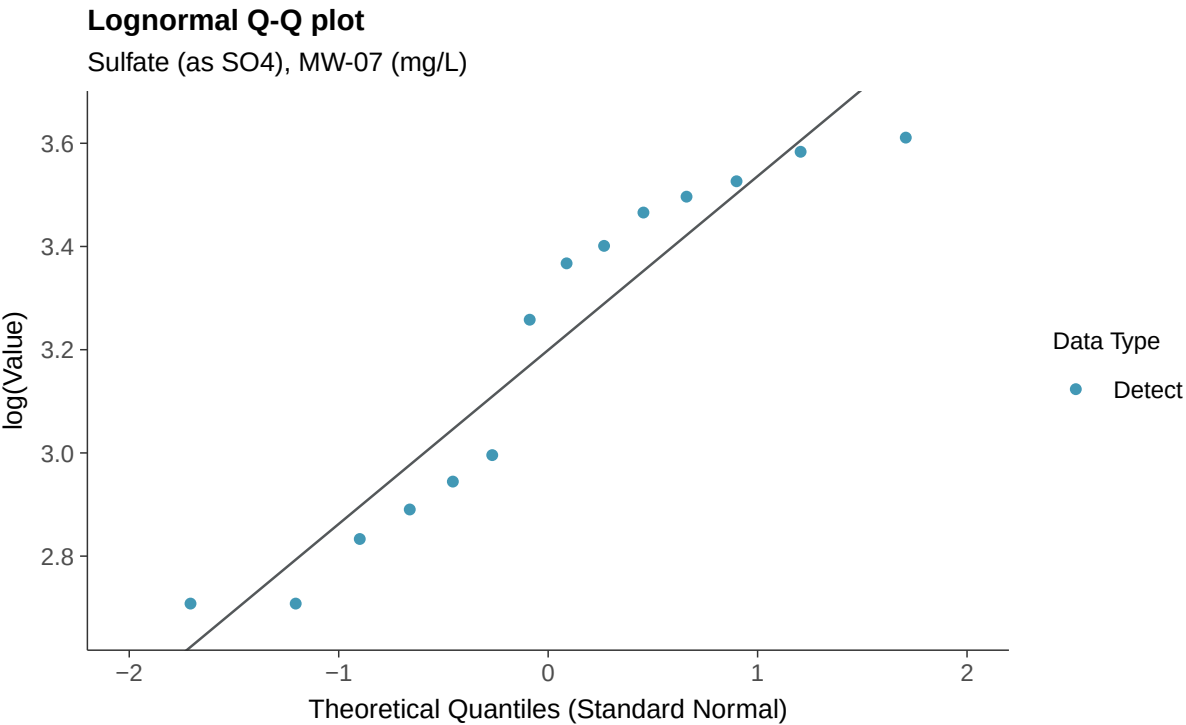
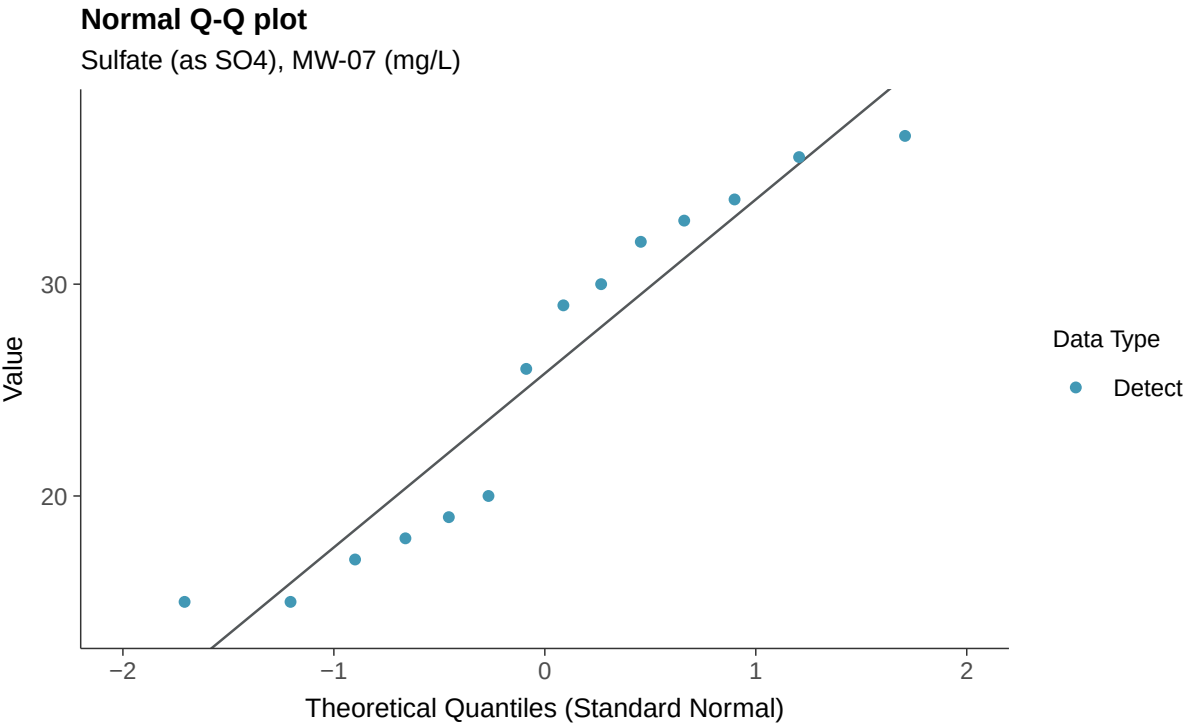


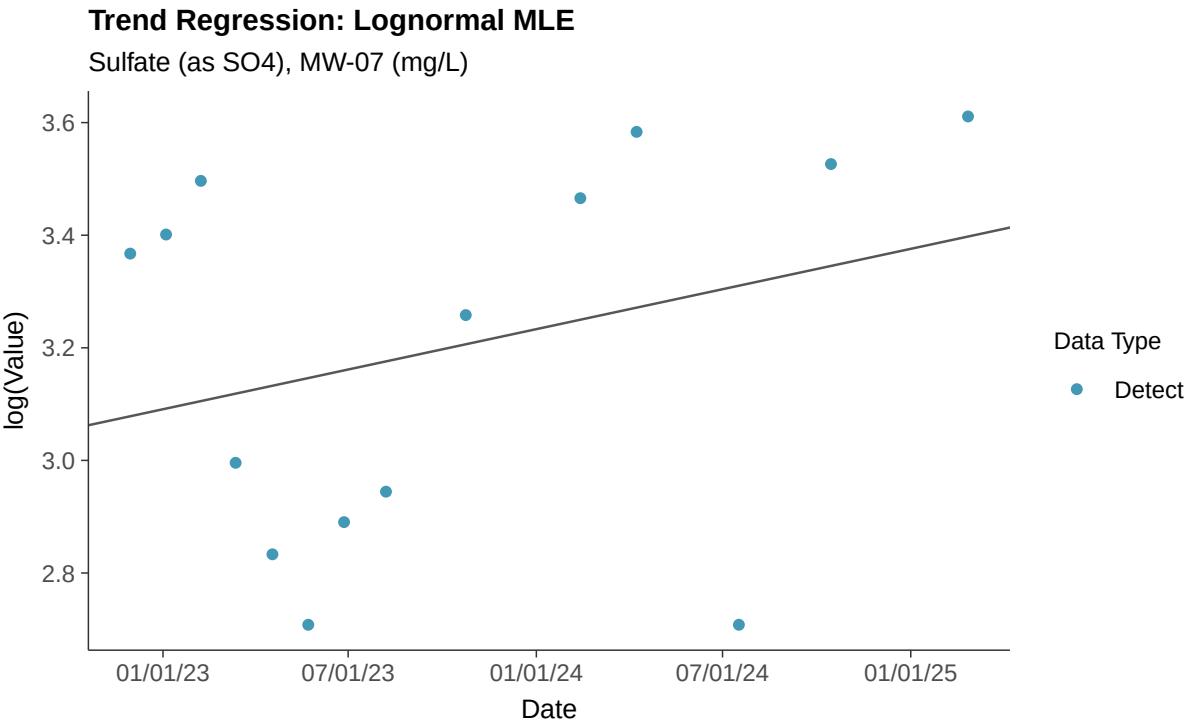
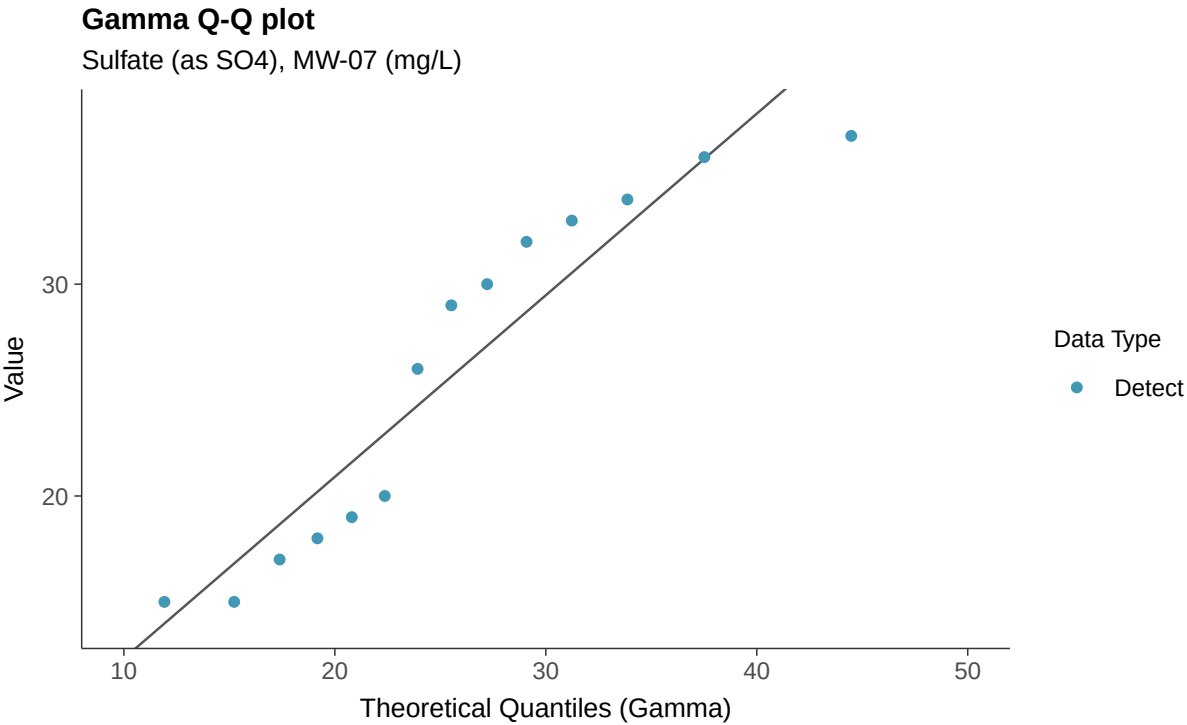
Appendix III: Sulfate (as SO₄), MW-07

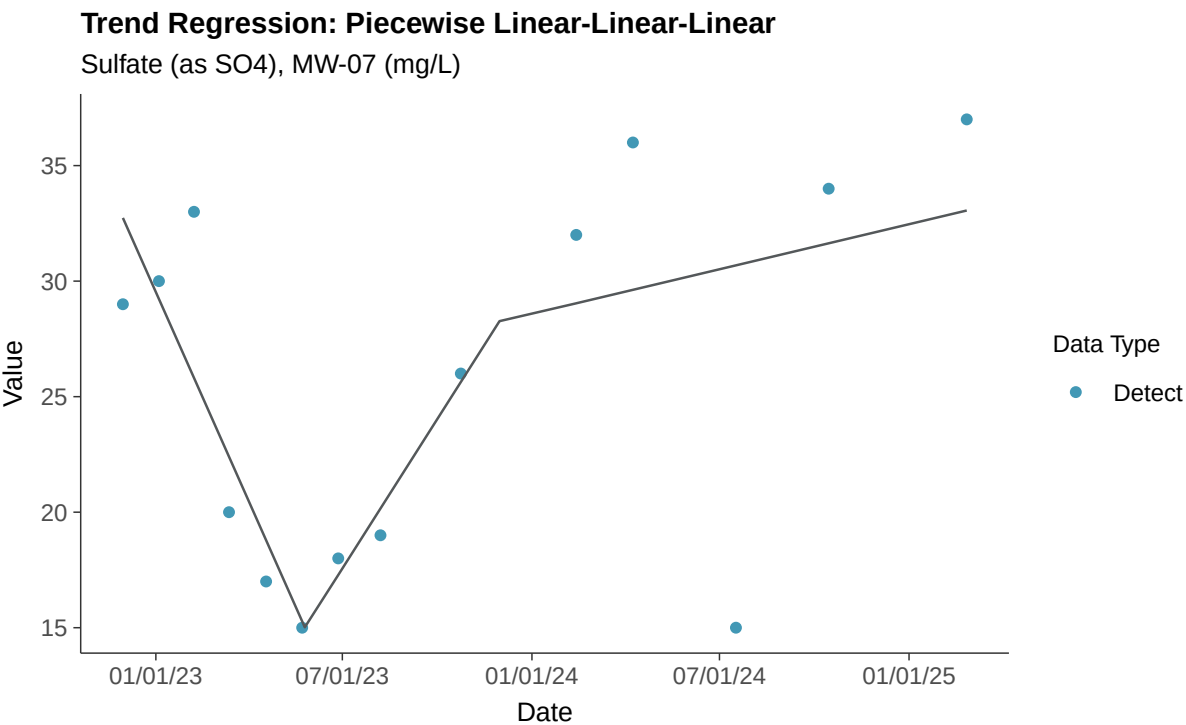
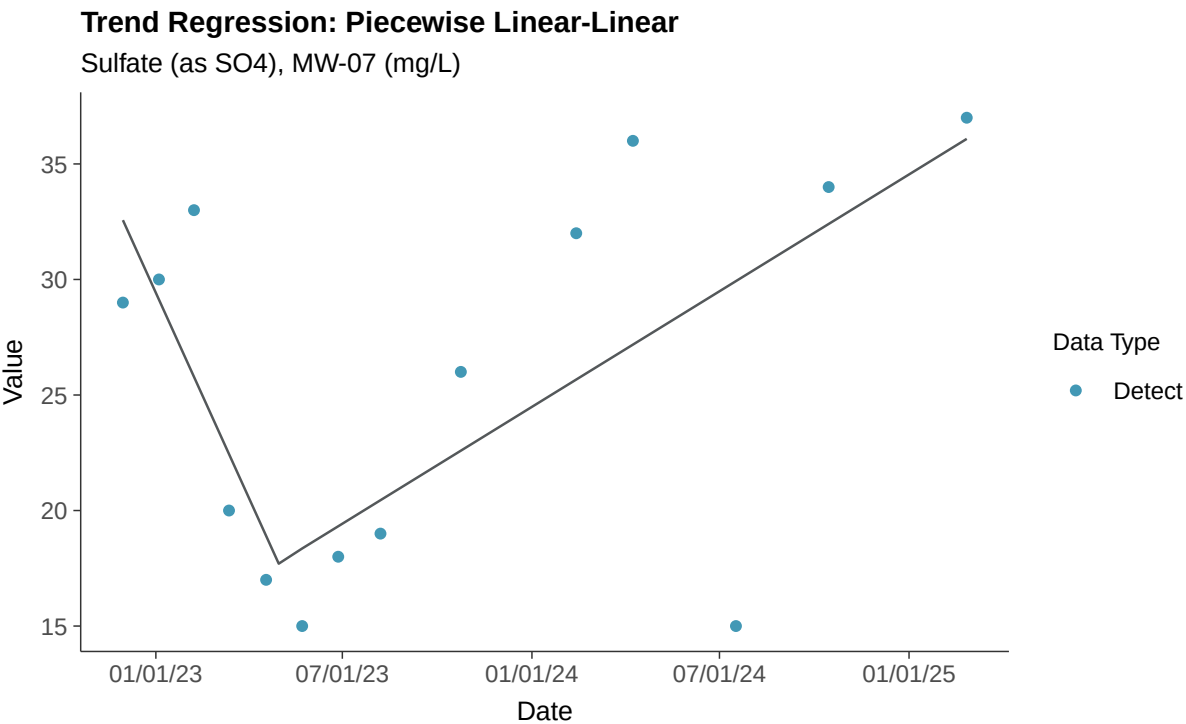
ID: 17_1_3_124







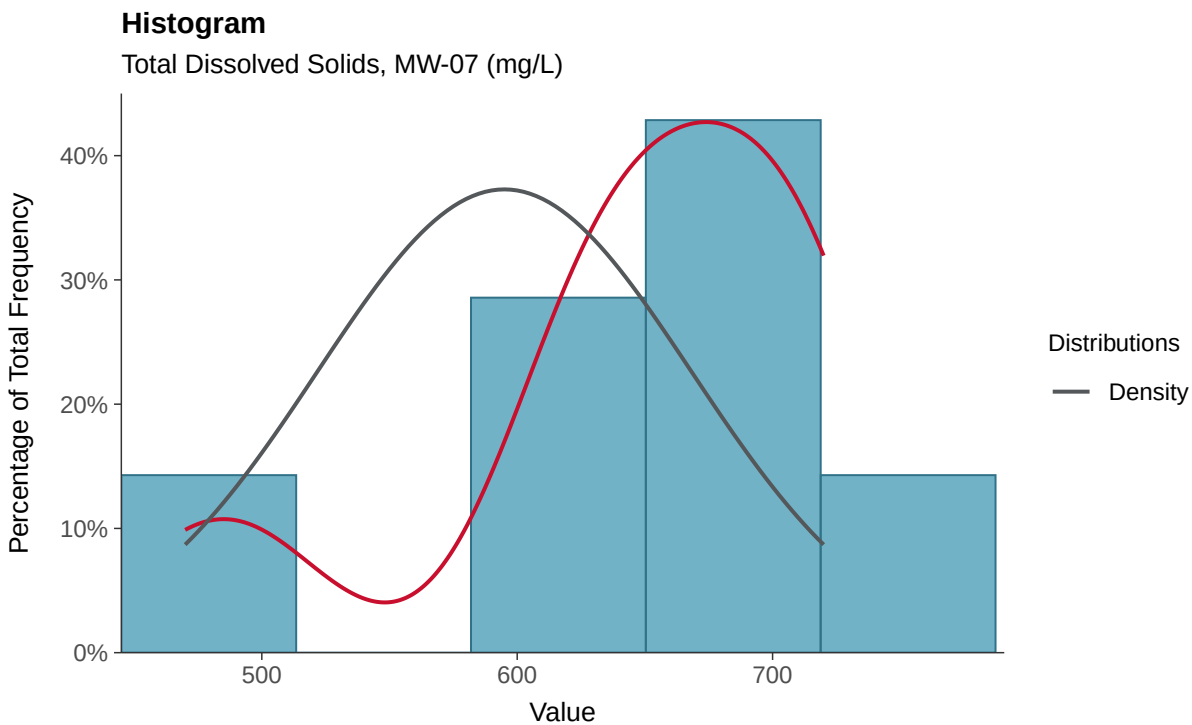
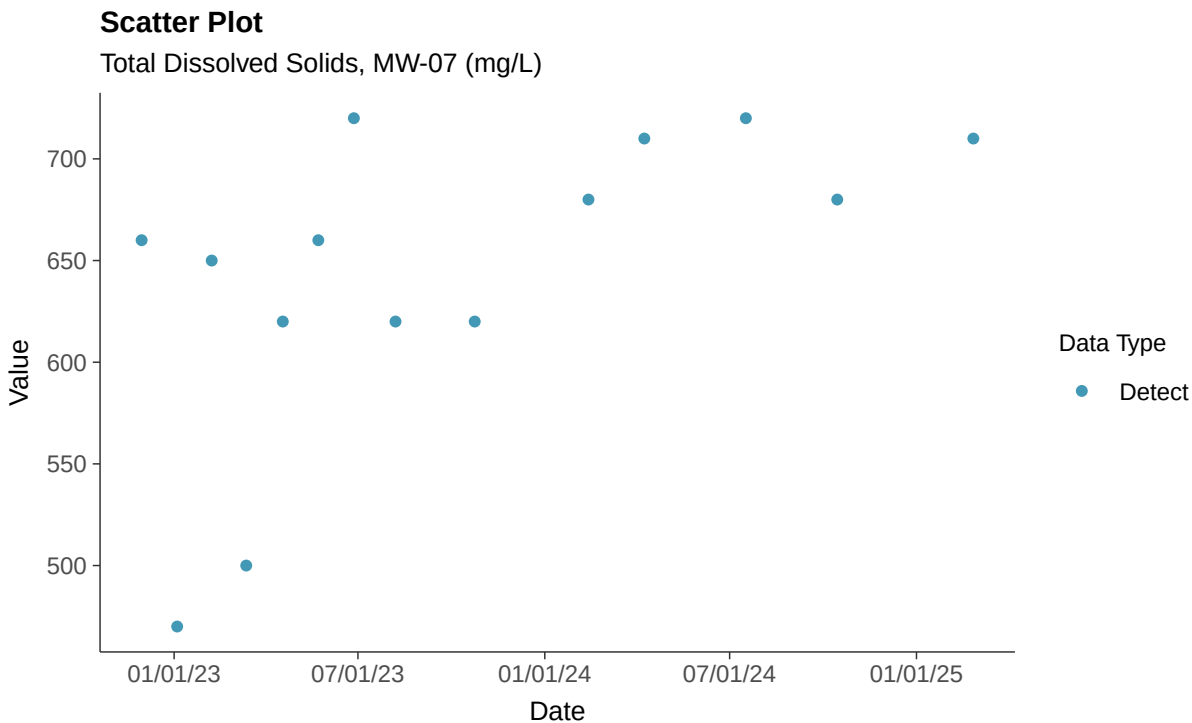


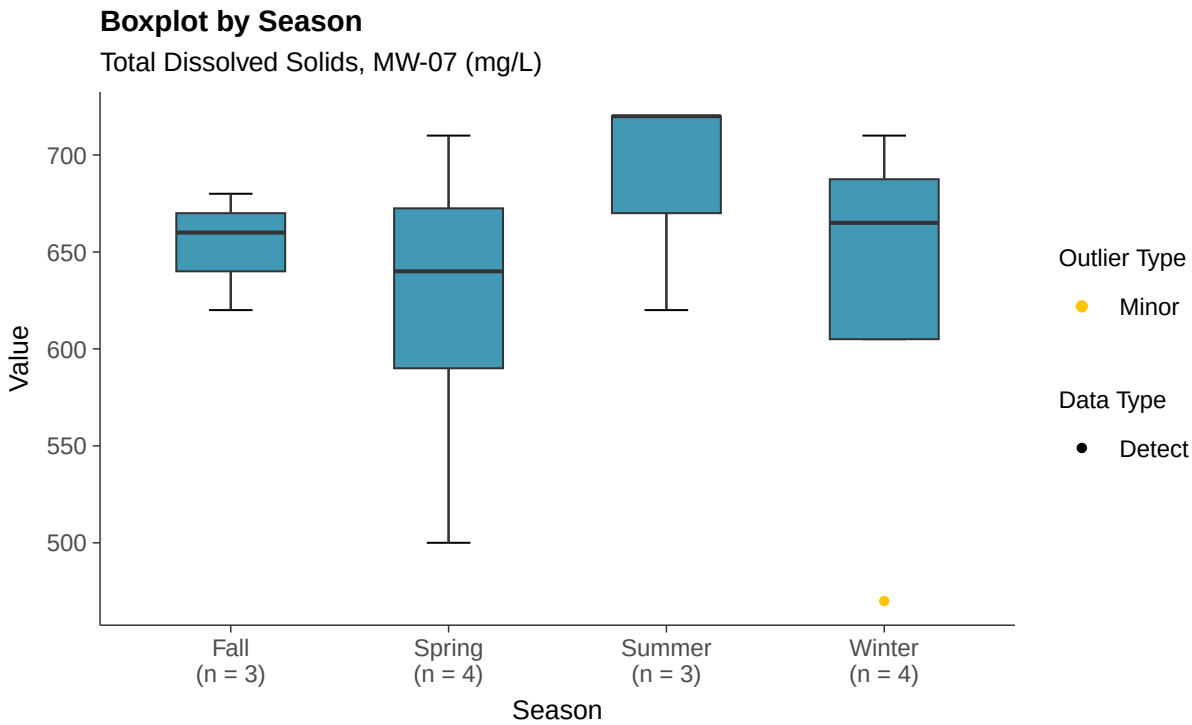
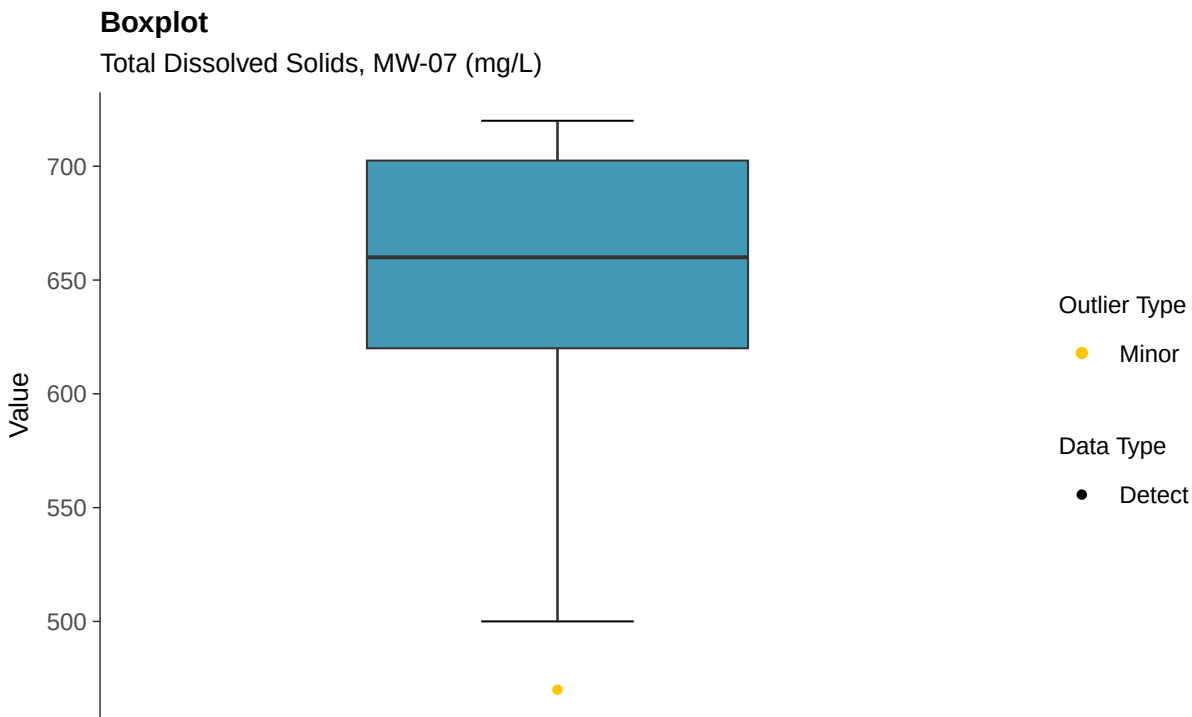


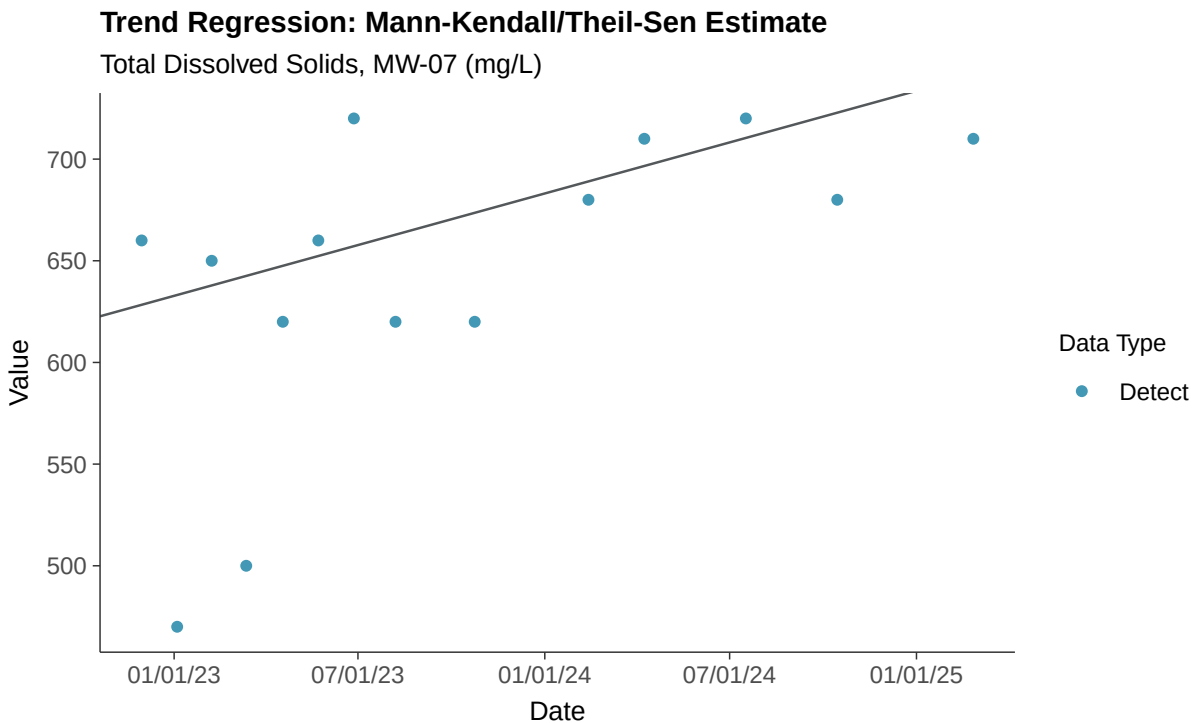
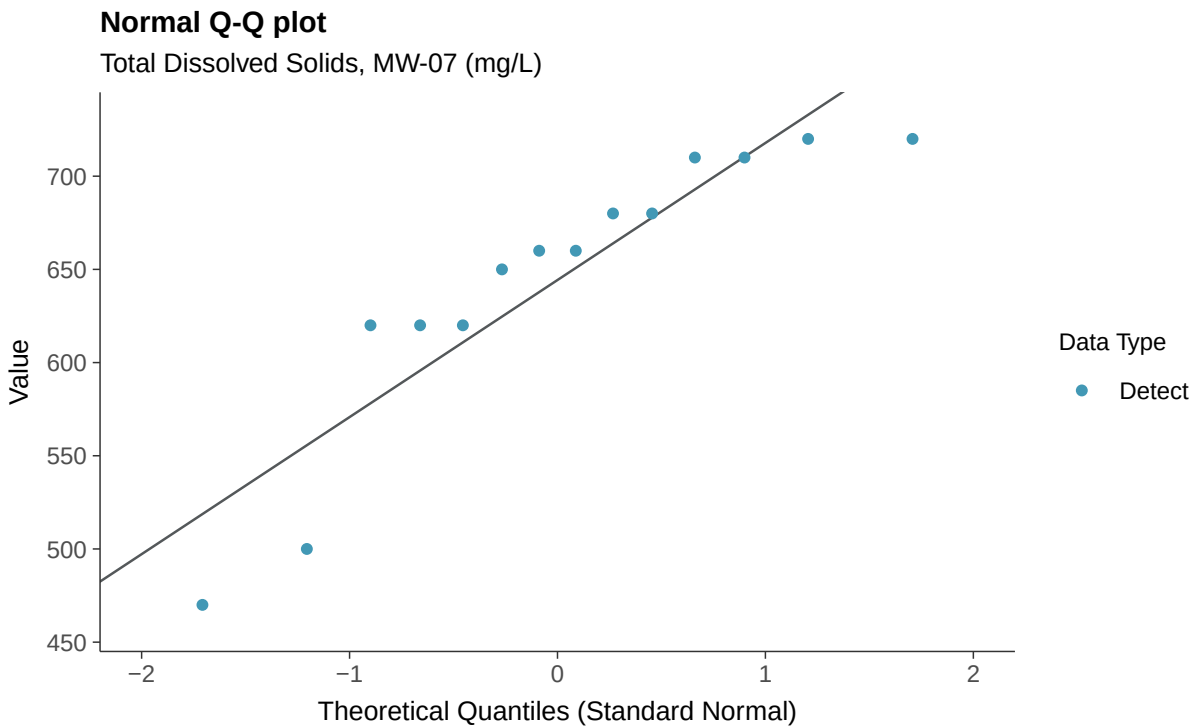


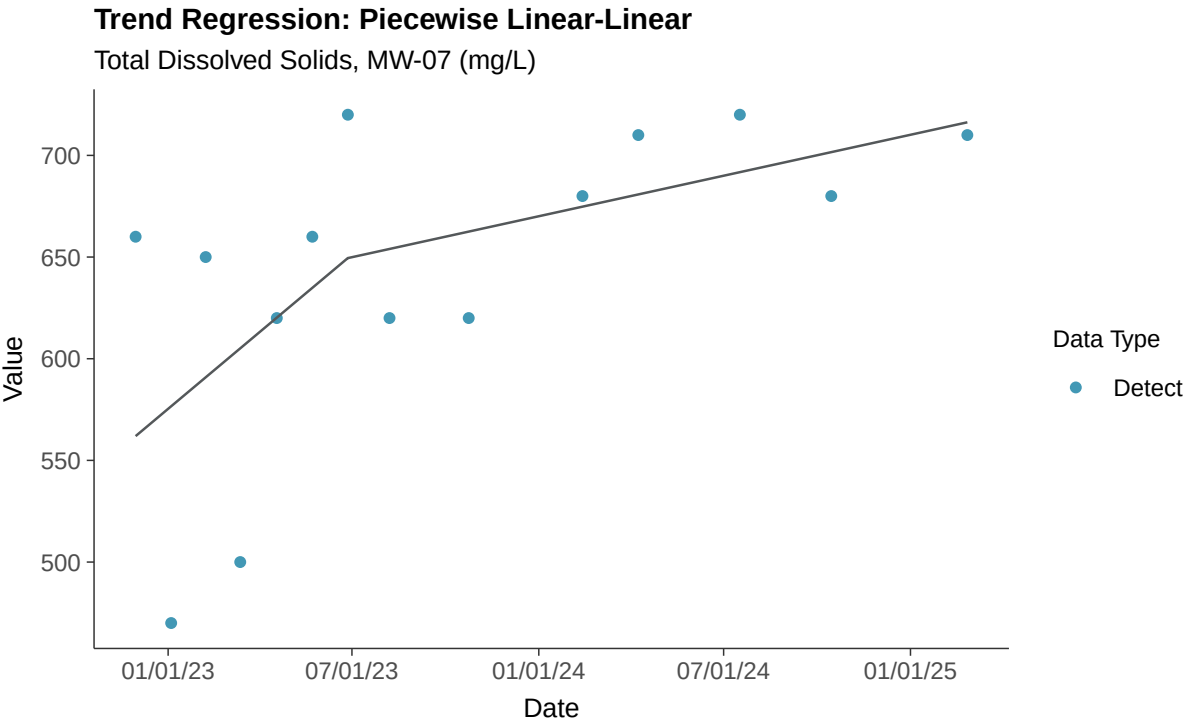
Appendix III: Total Dissolved Solids, MW-07

ID: 17_1_3_126





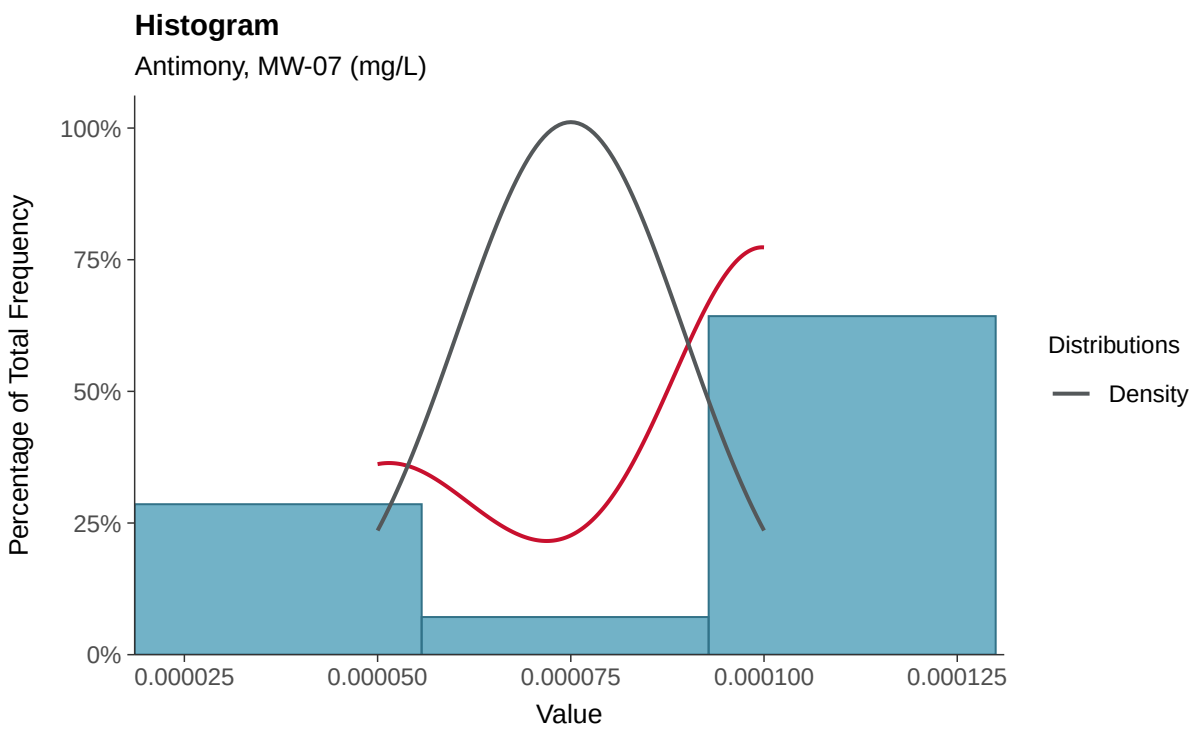
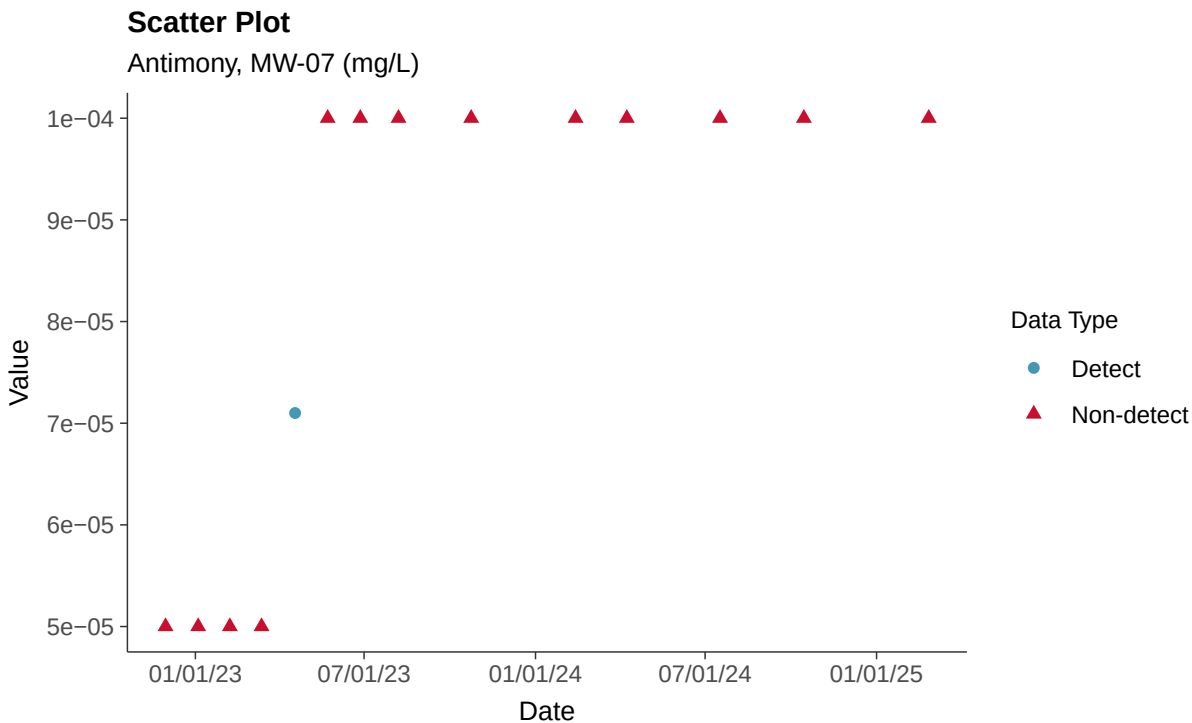


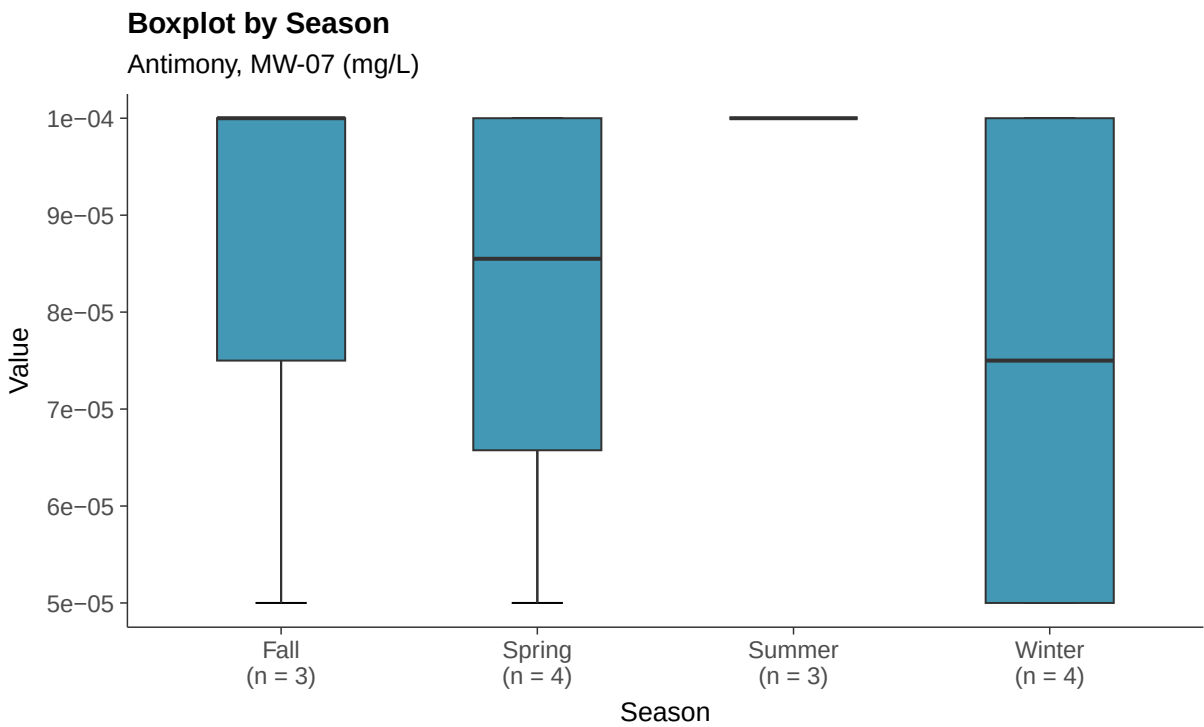
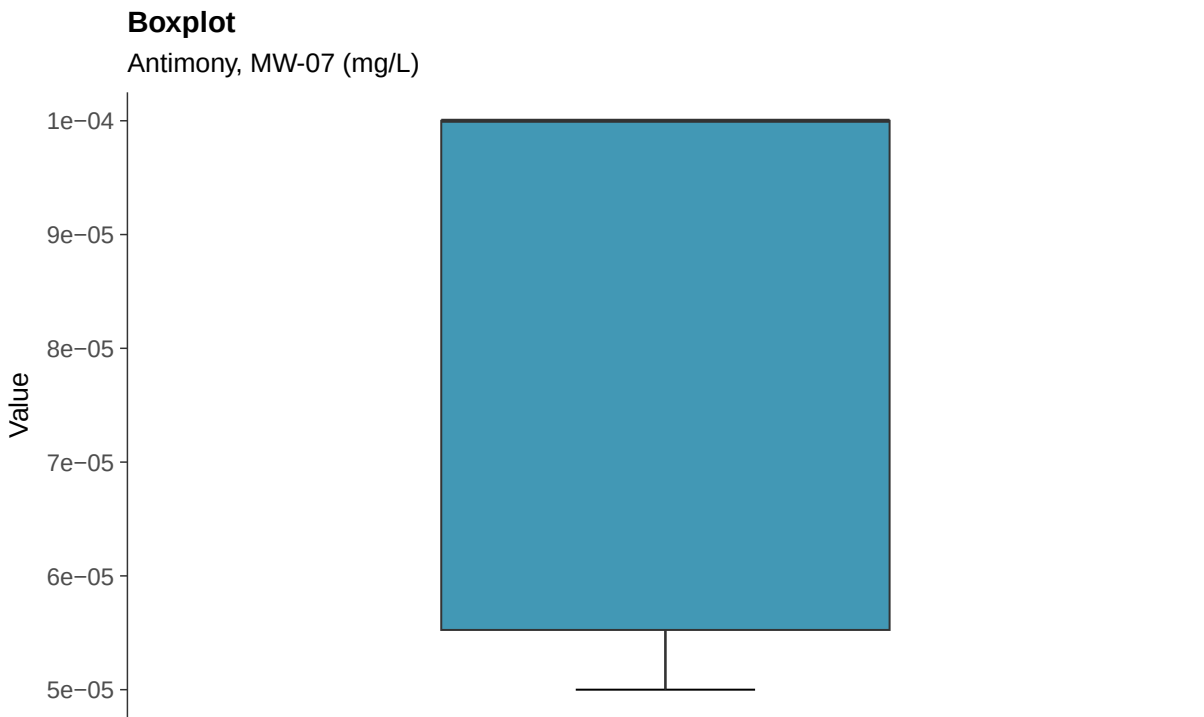


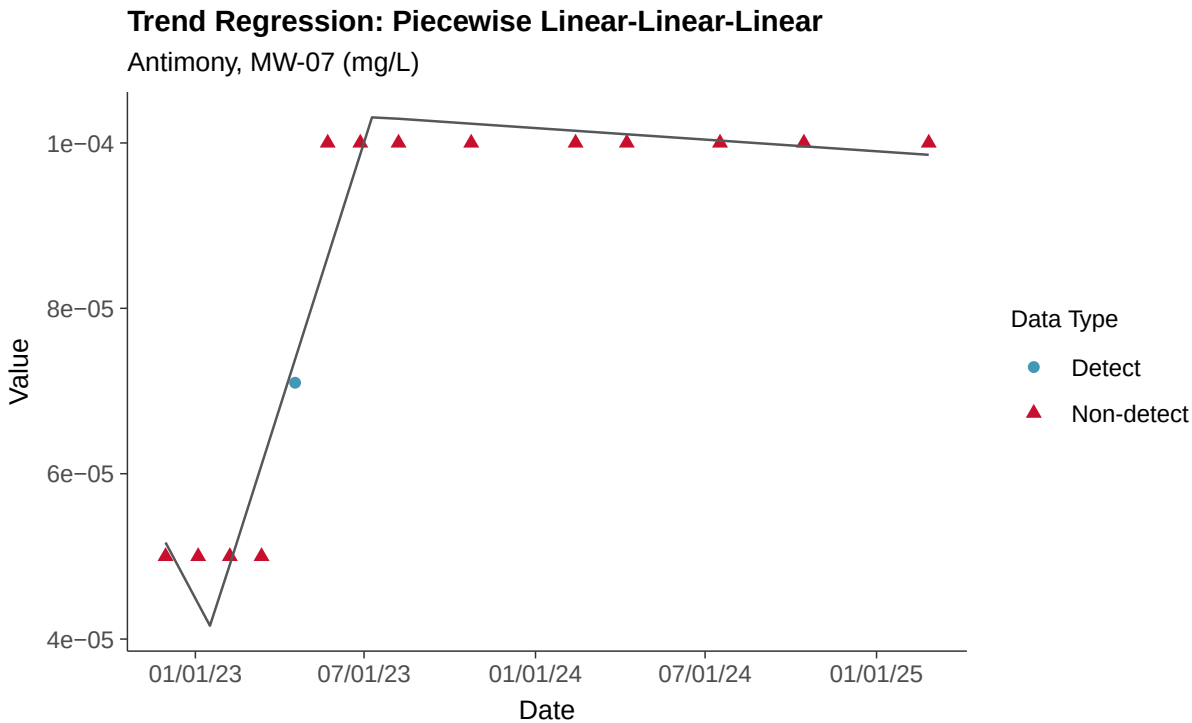
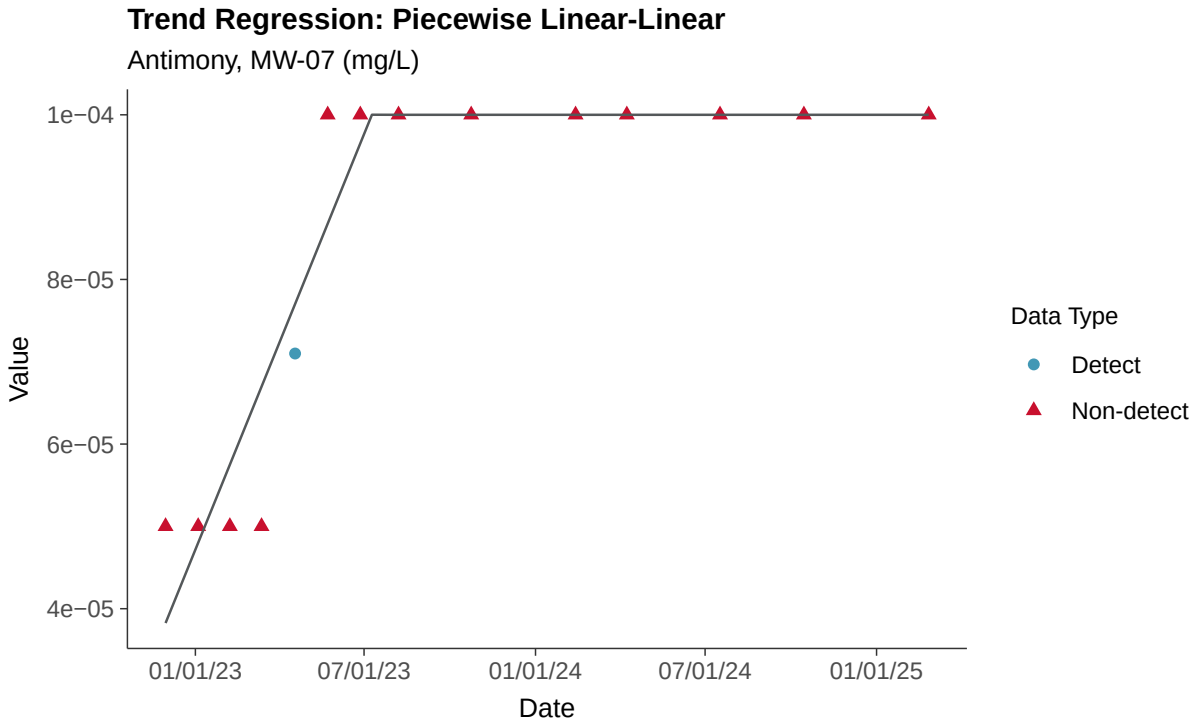


Appendix IV: Antimony, MW-07

ID: 17_1_4_101



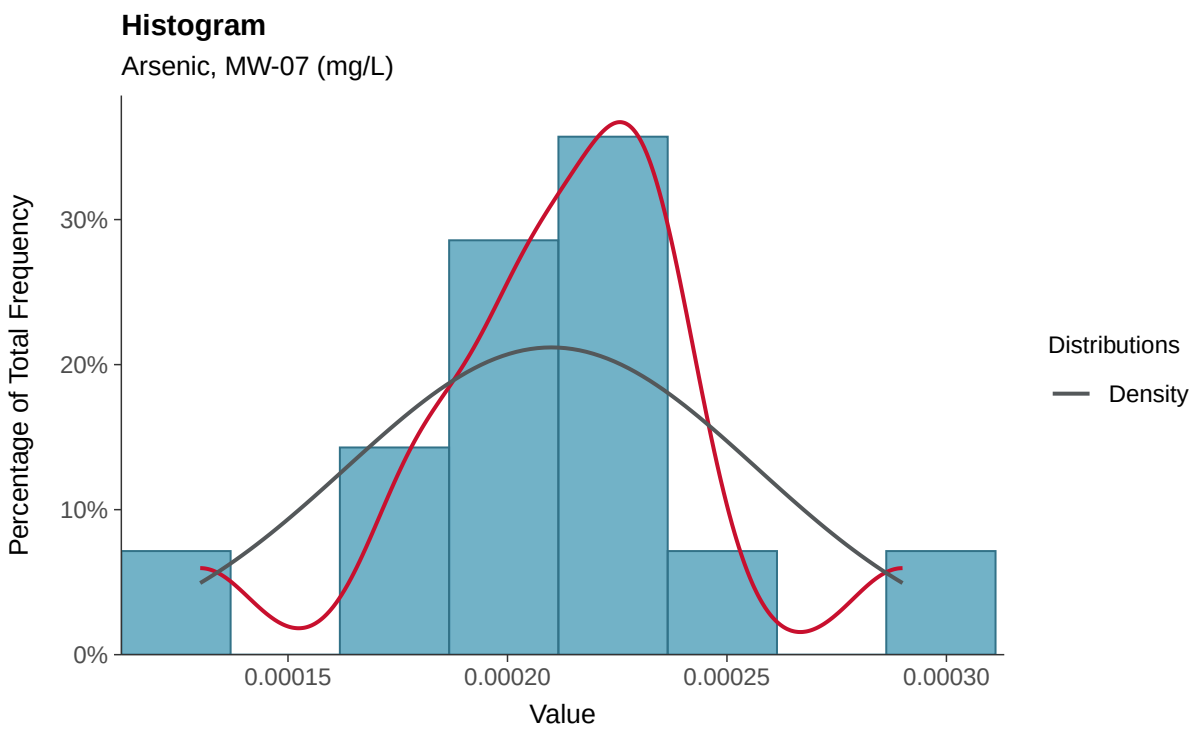
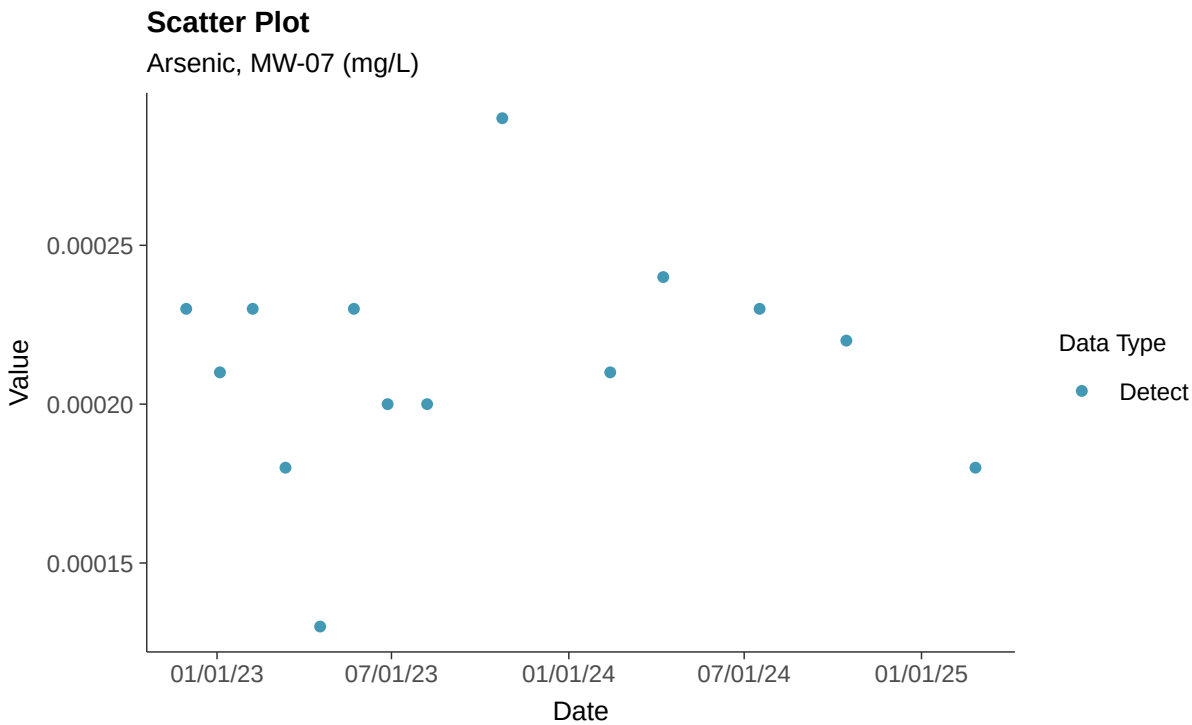


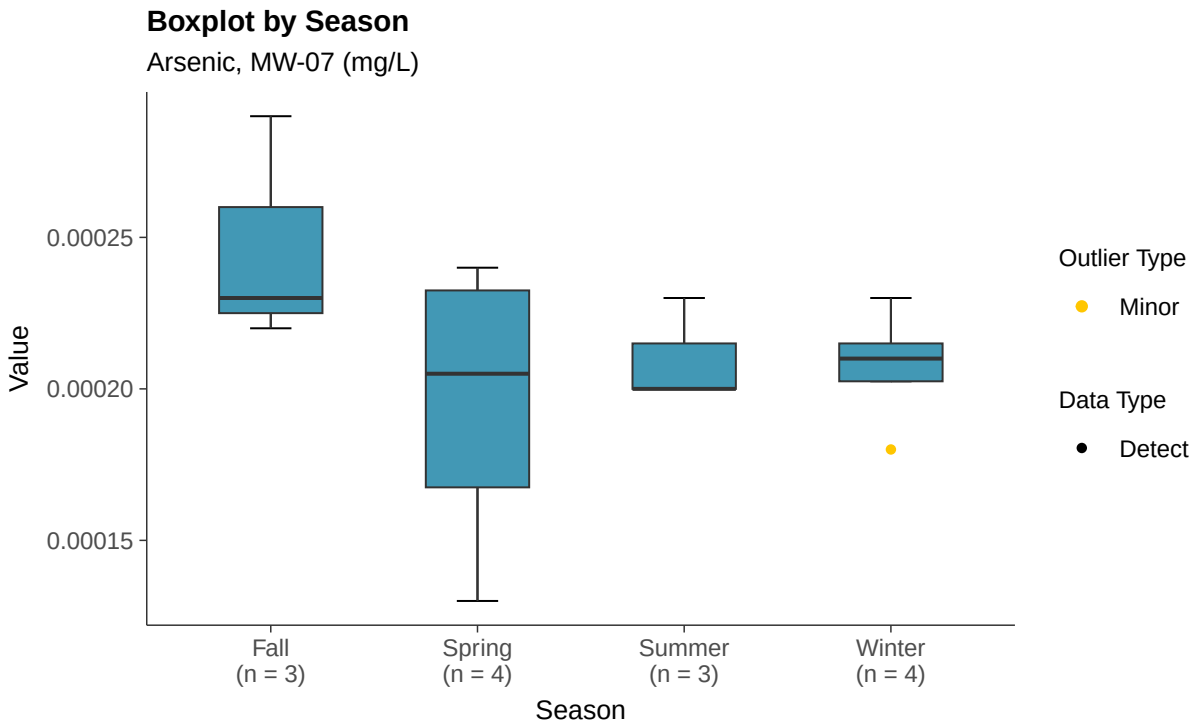
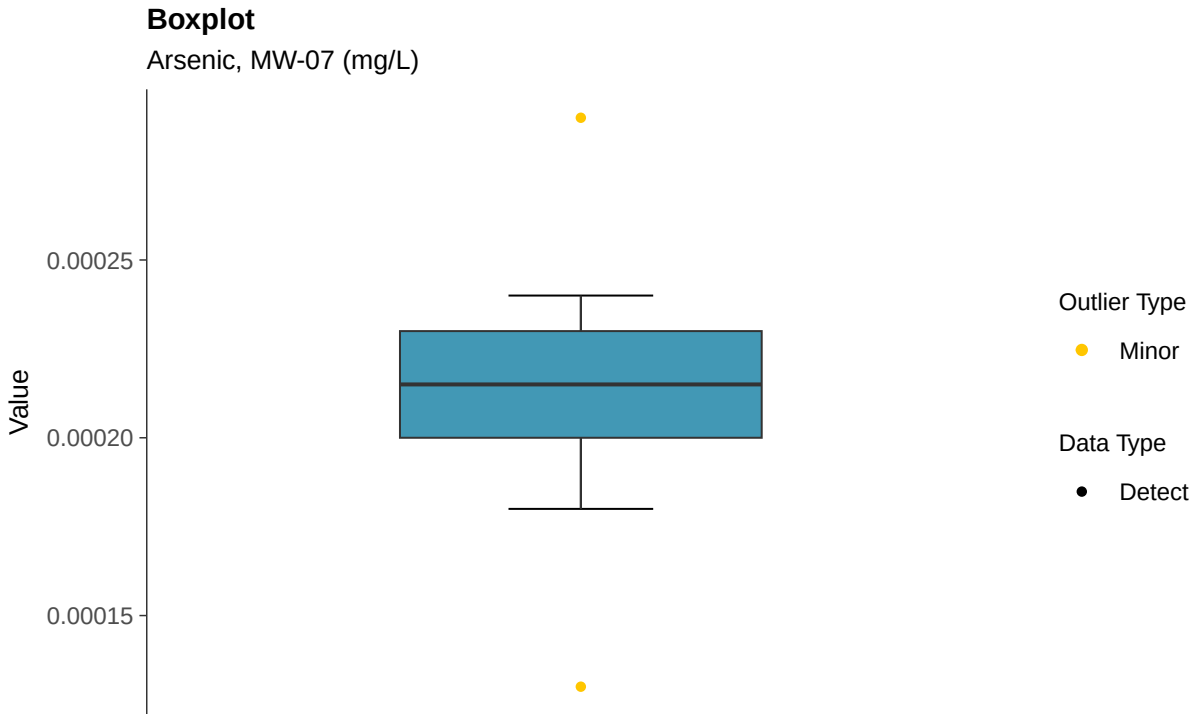


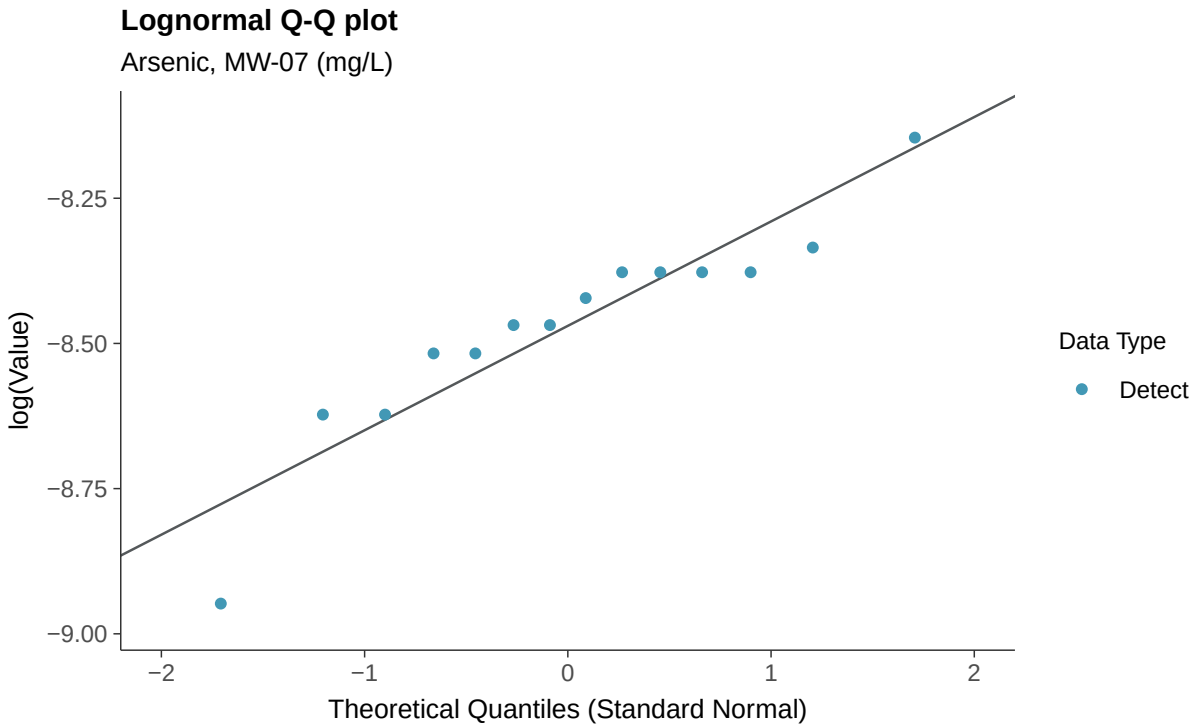
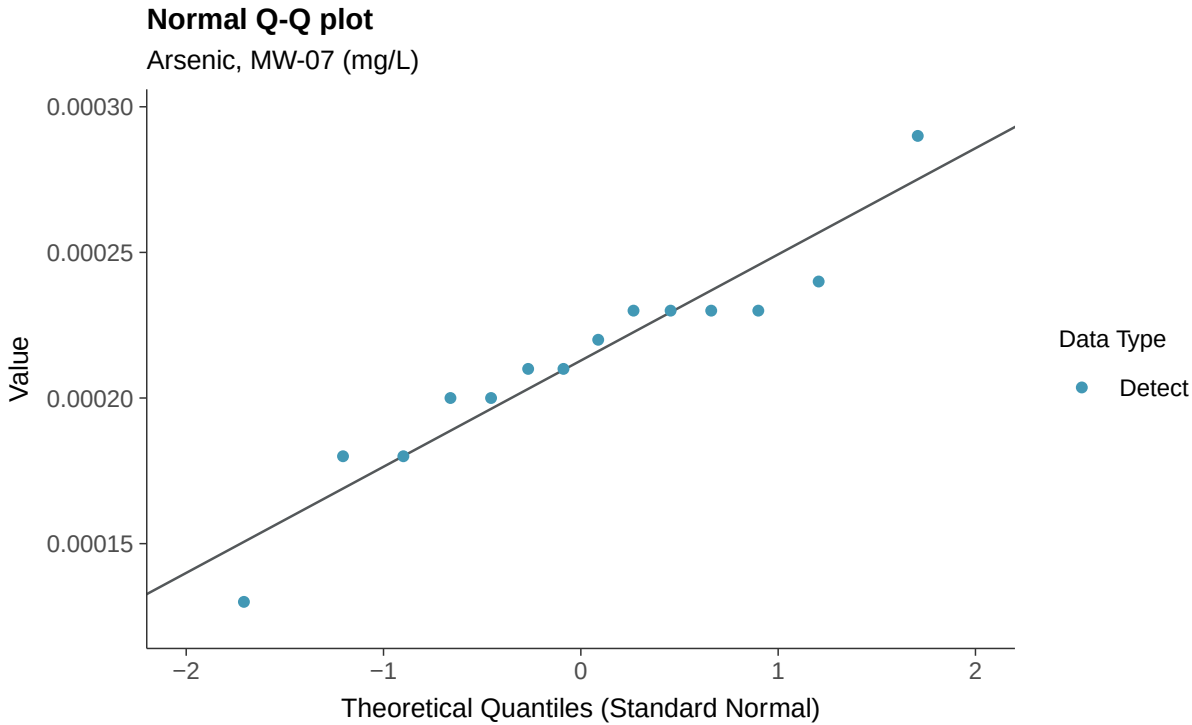


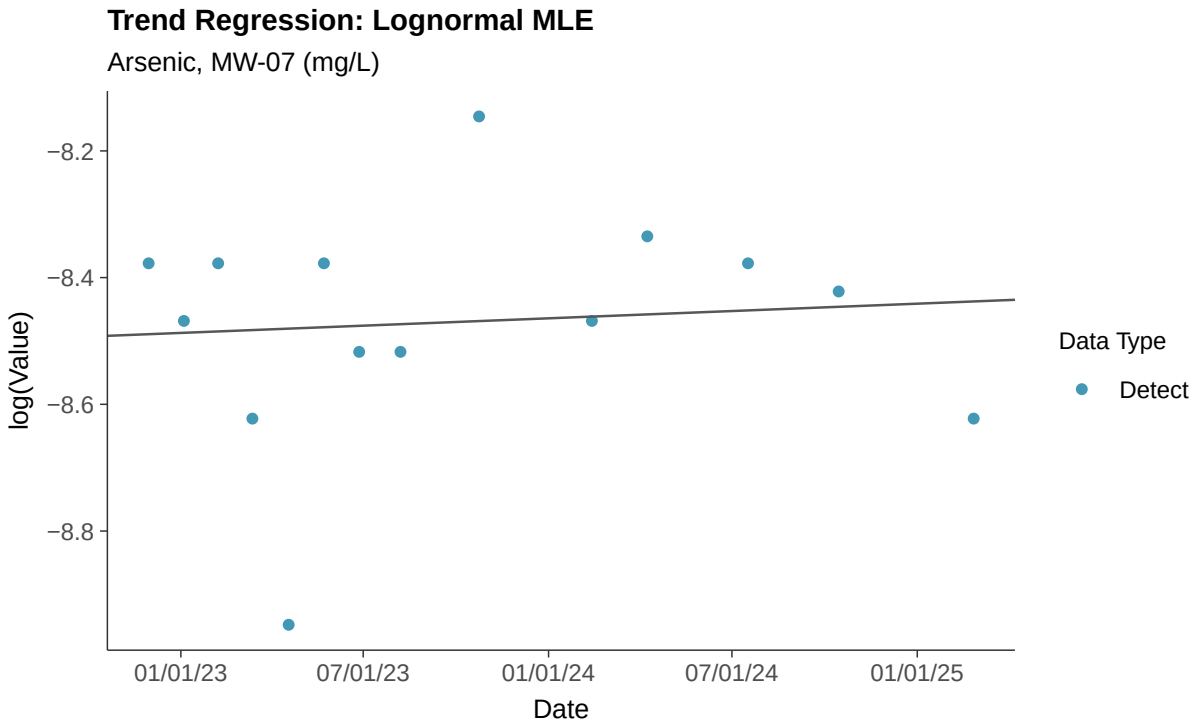
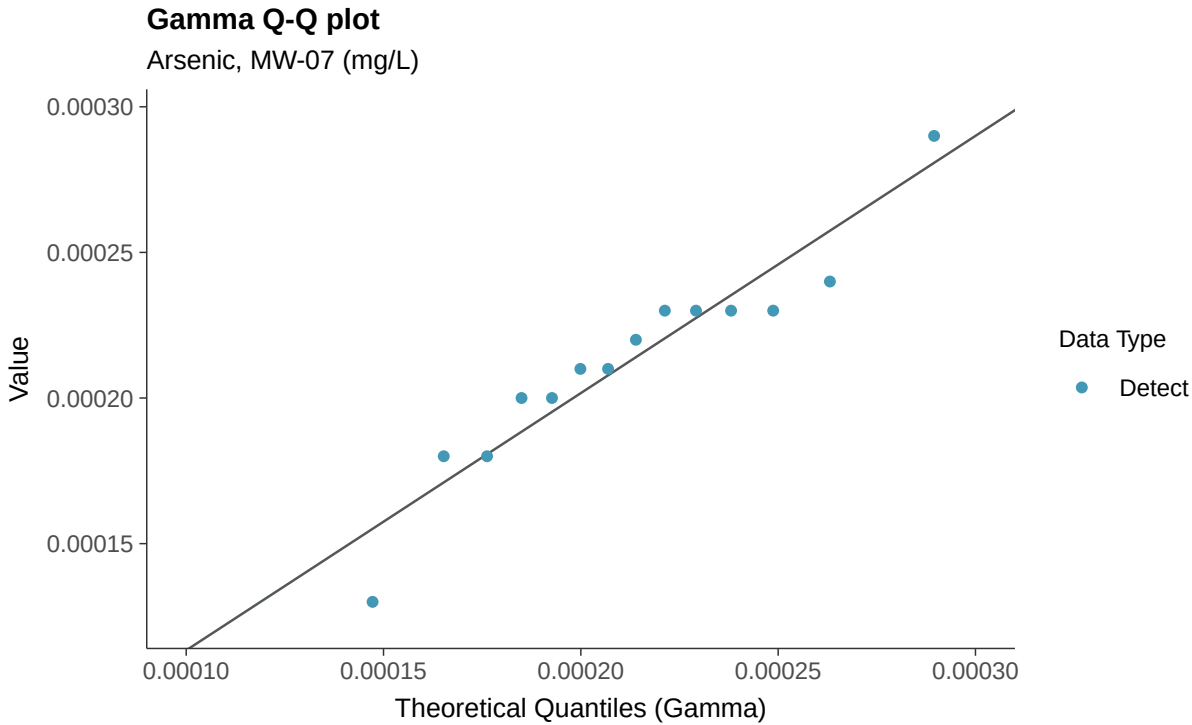
Appendix IV: Arsenic, MW-07

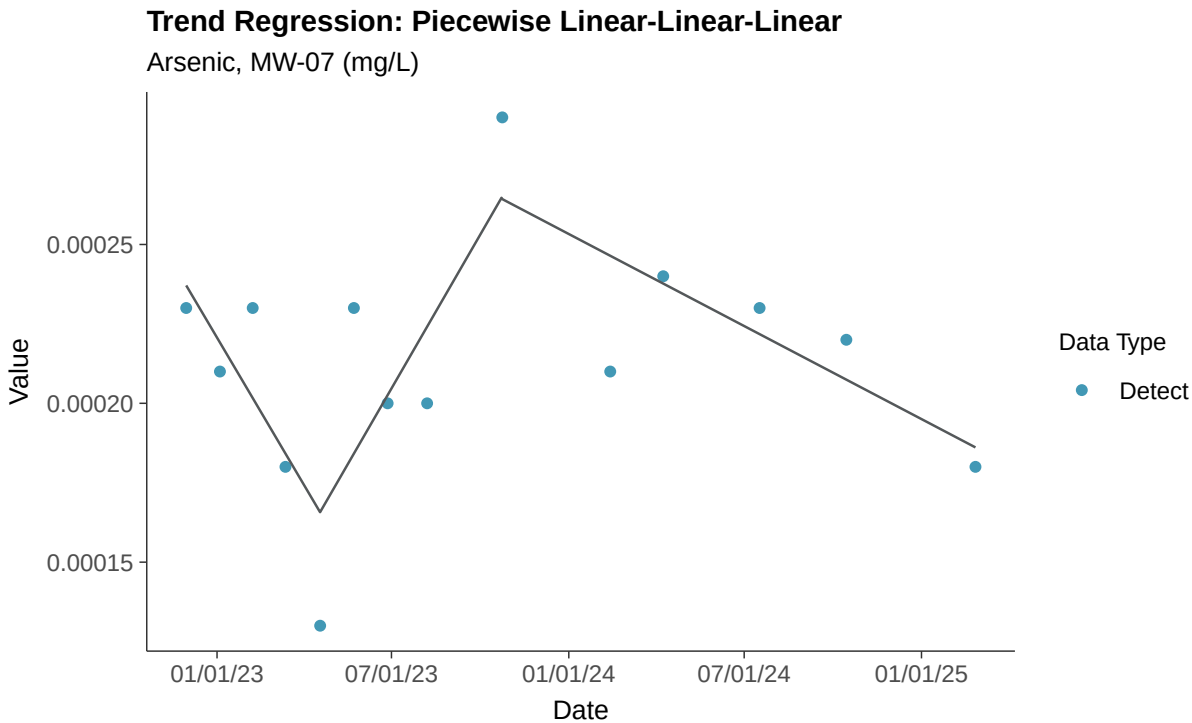
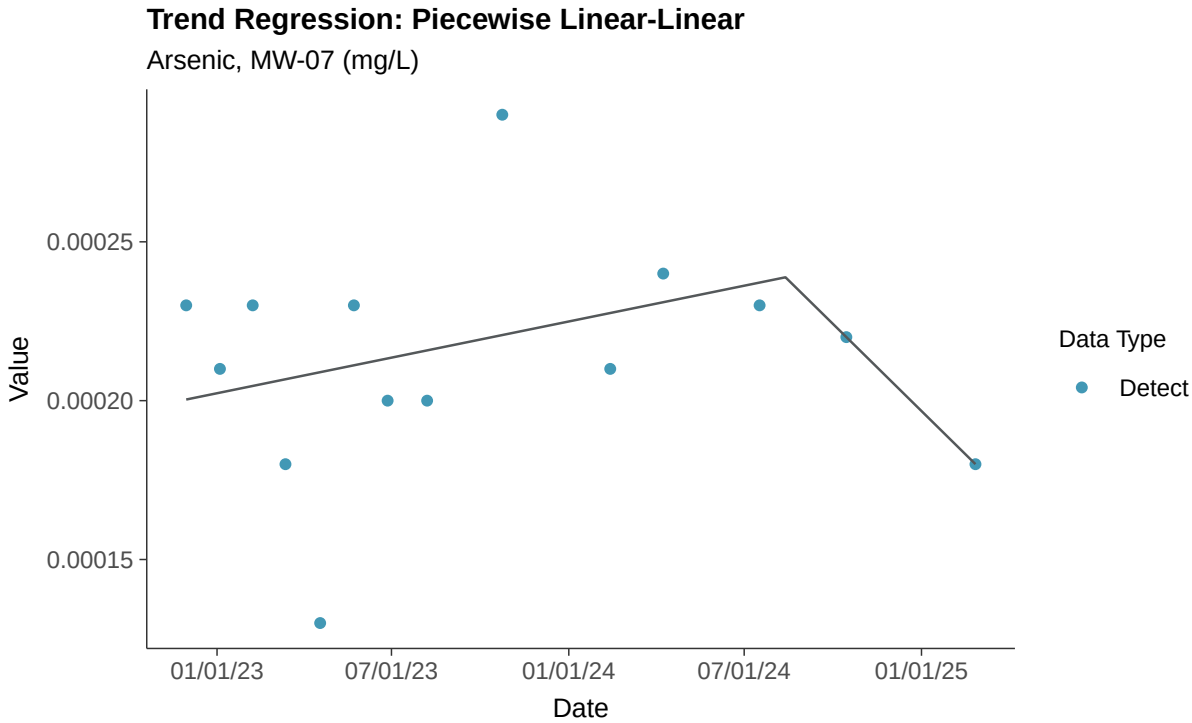
ID: 17_1_4_102







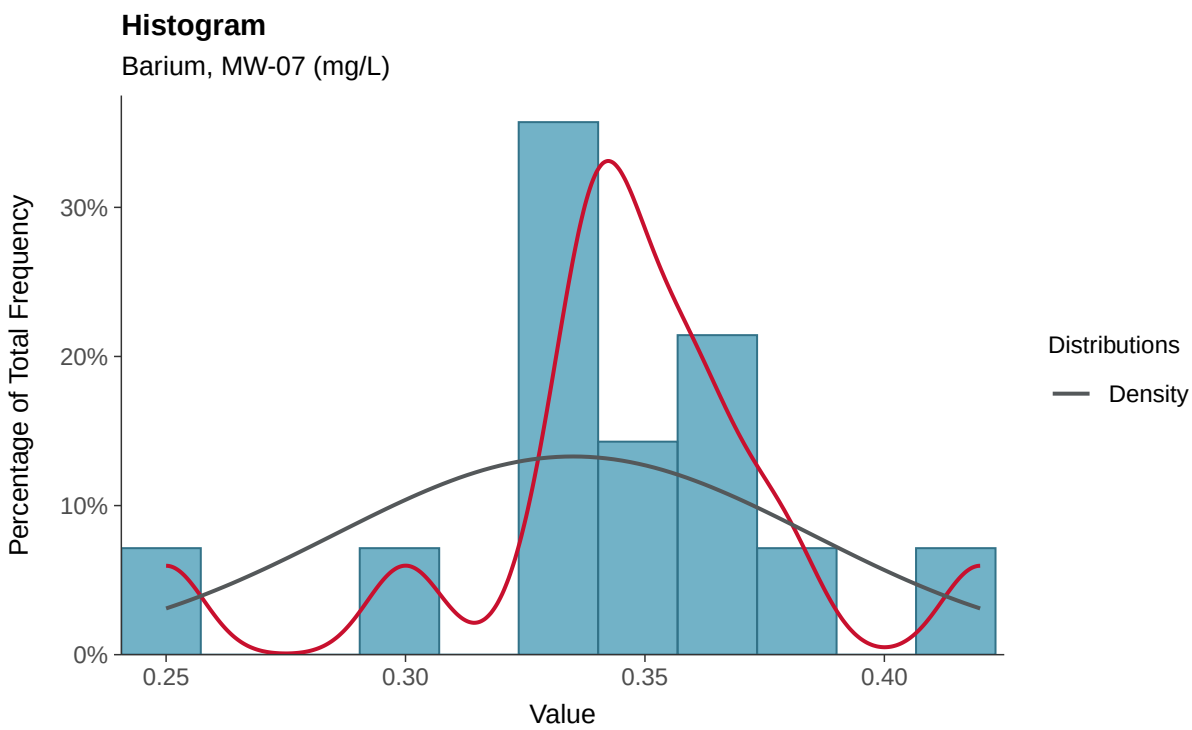
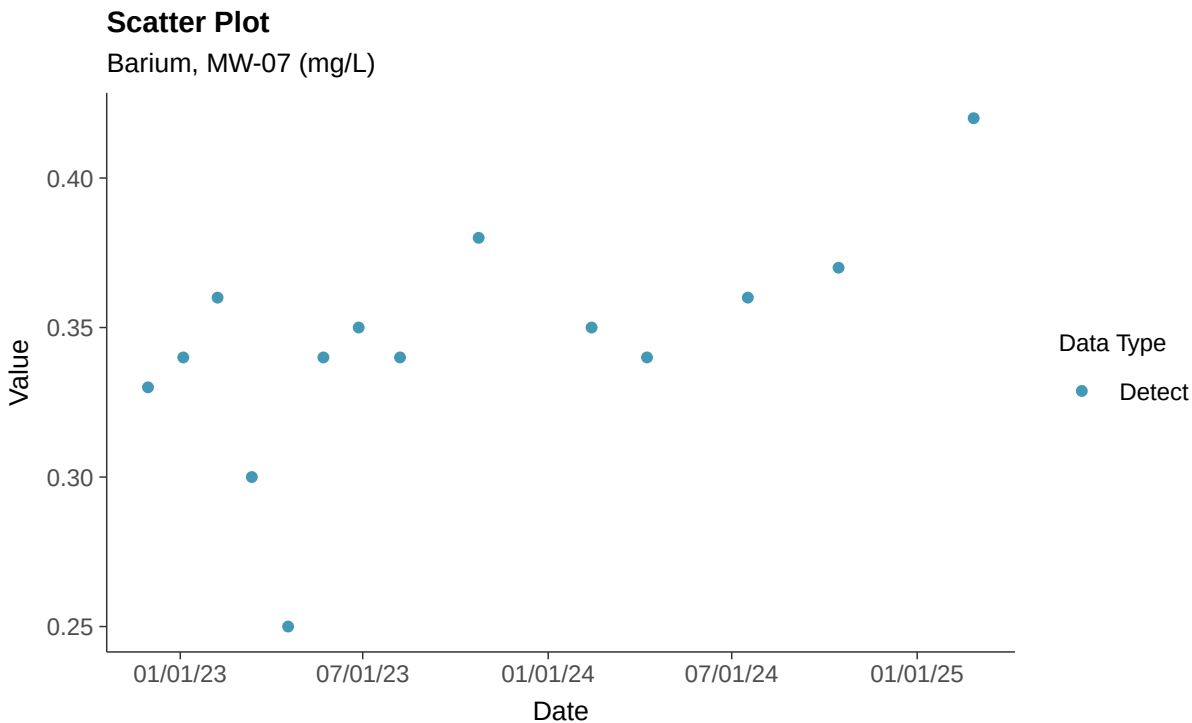


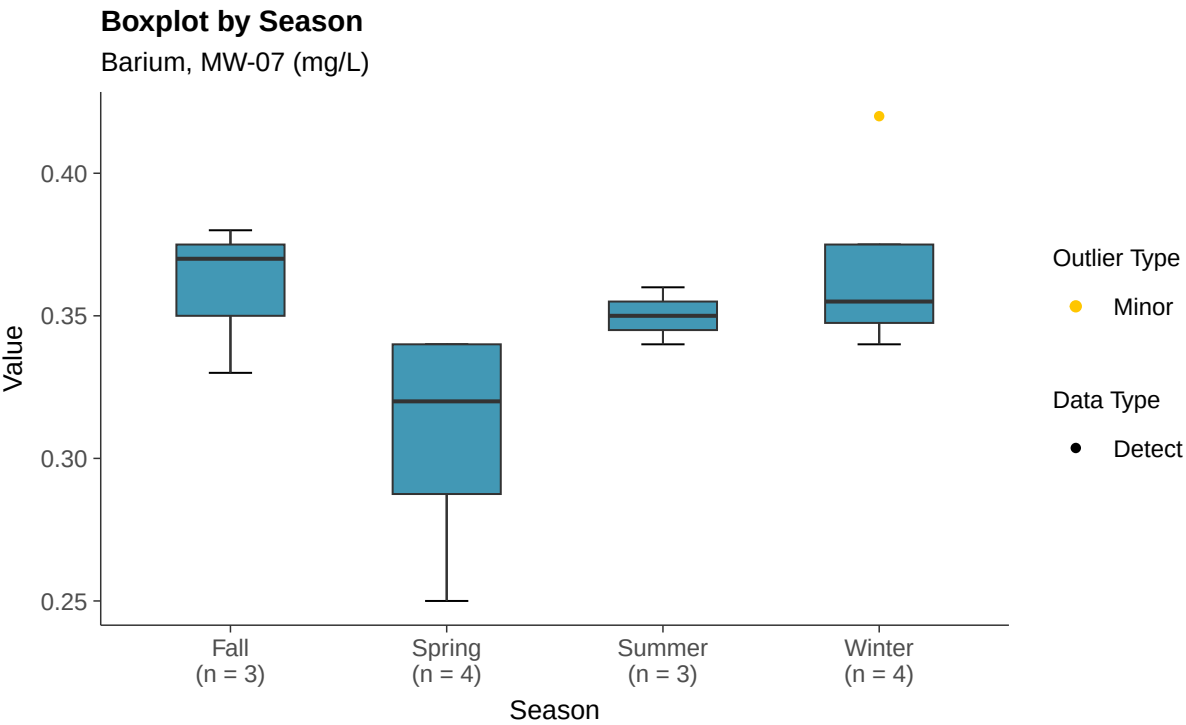
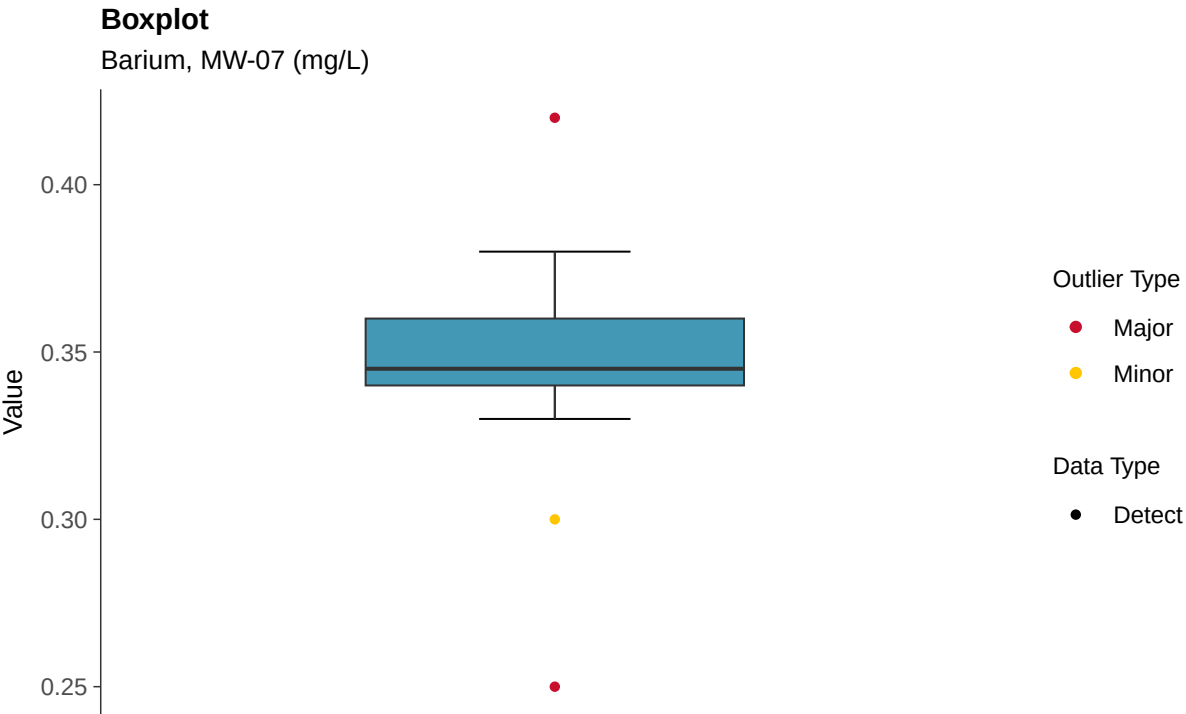


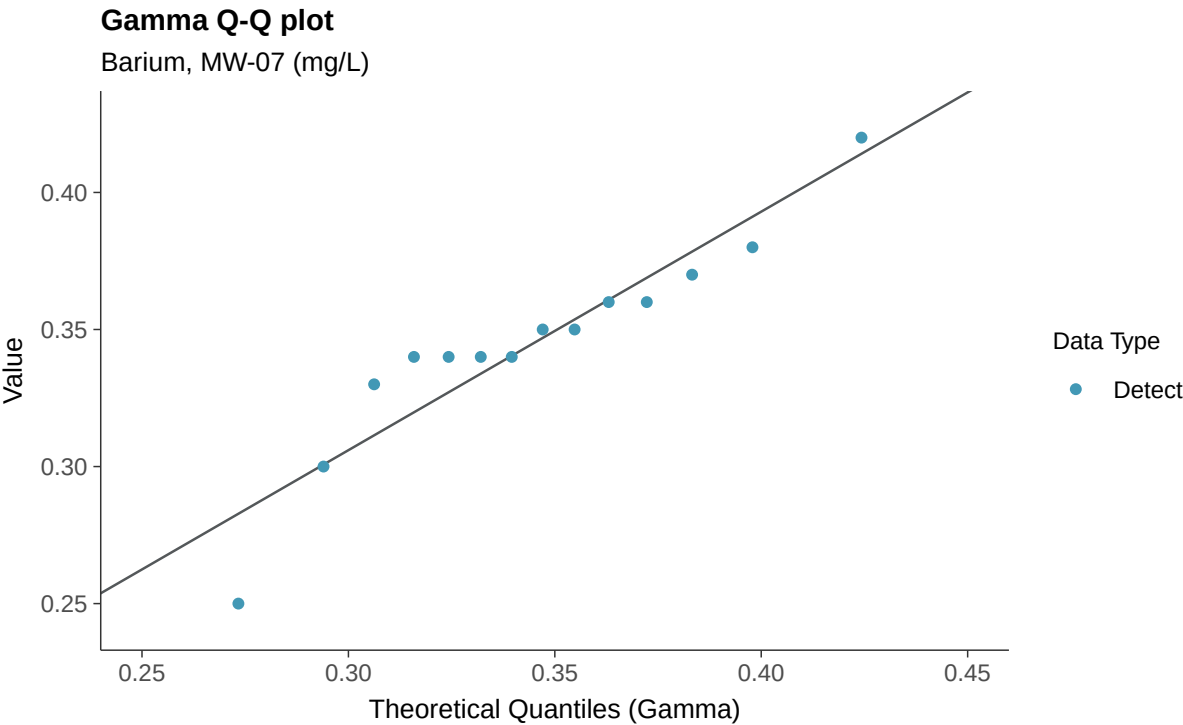
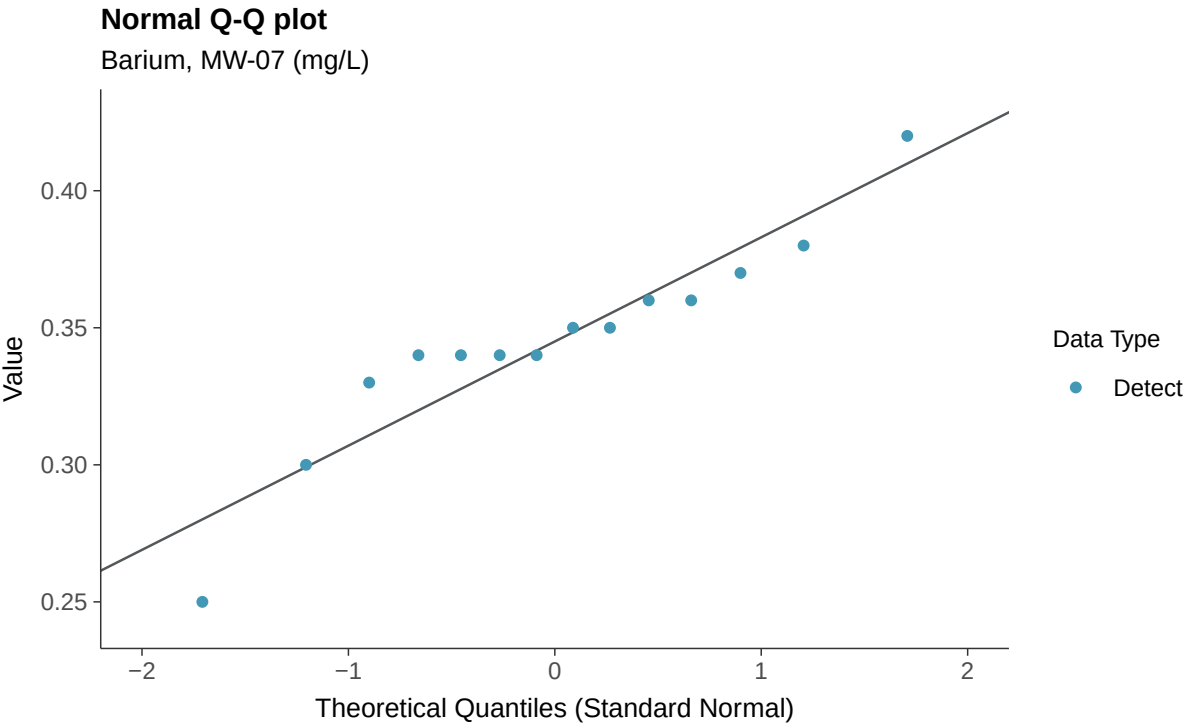


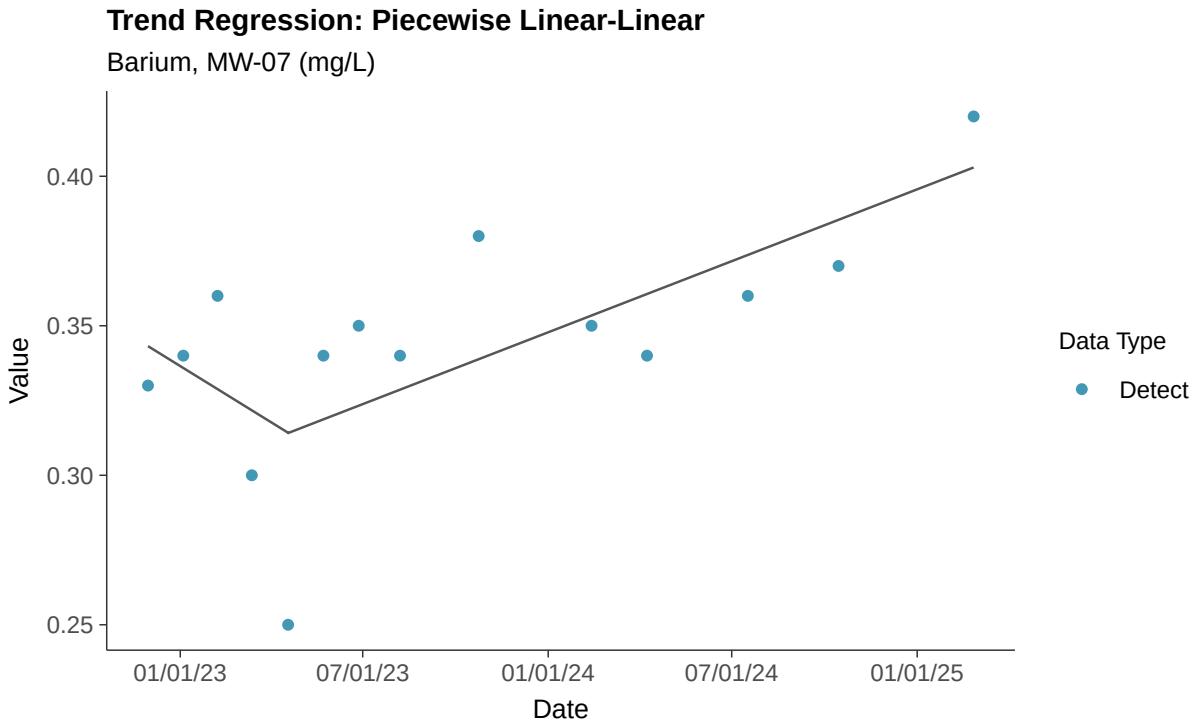
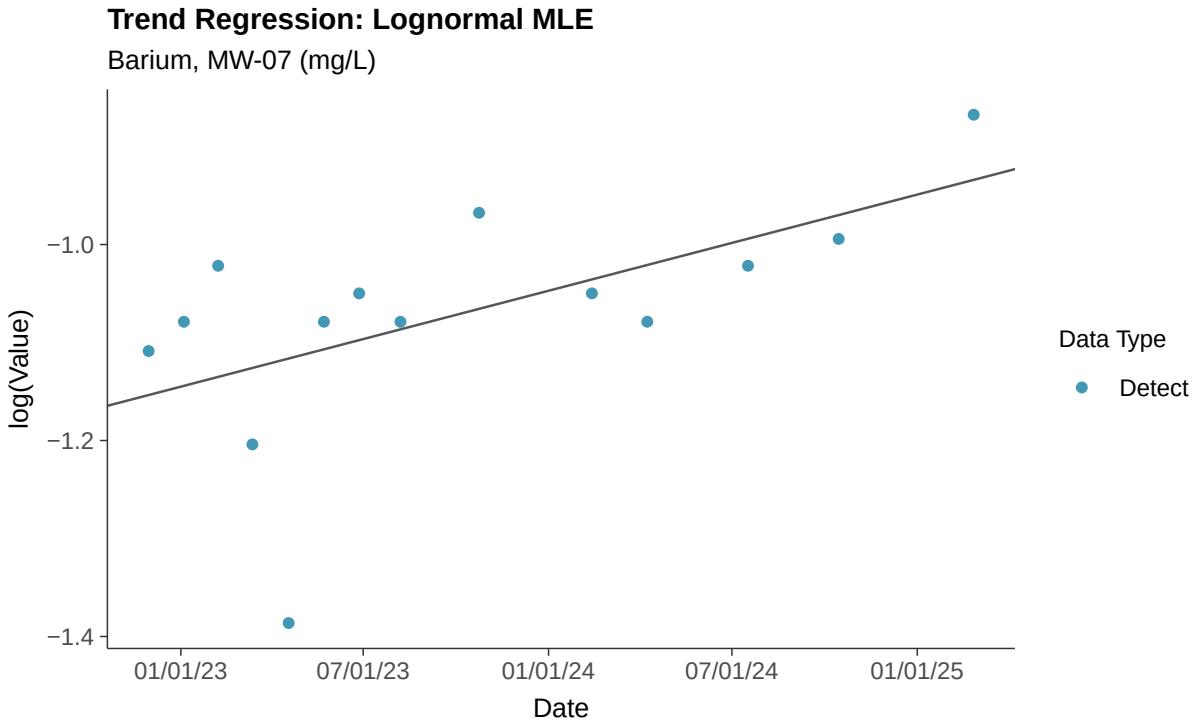
Appendix IV: Barium, MW-07

ID: 17_1_4_103





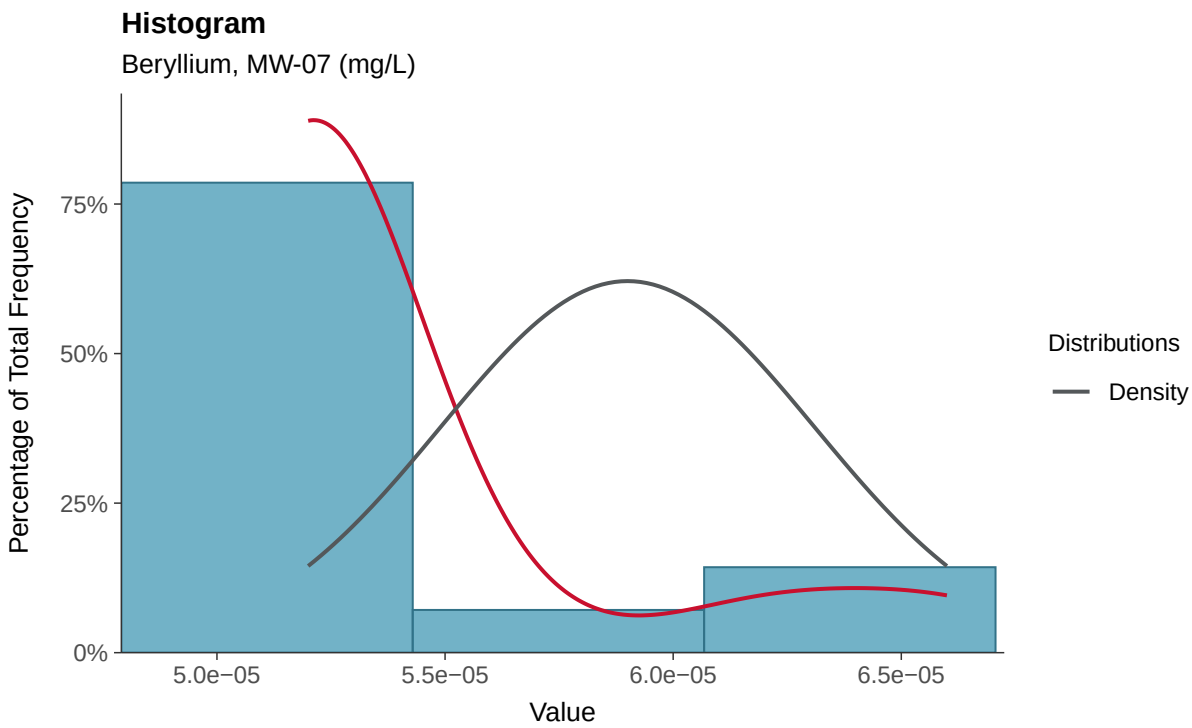
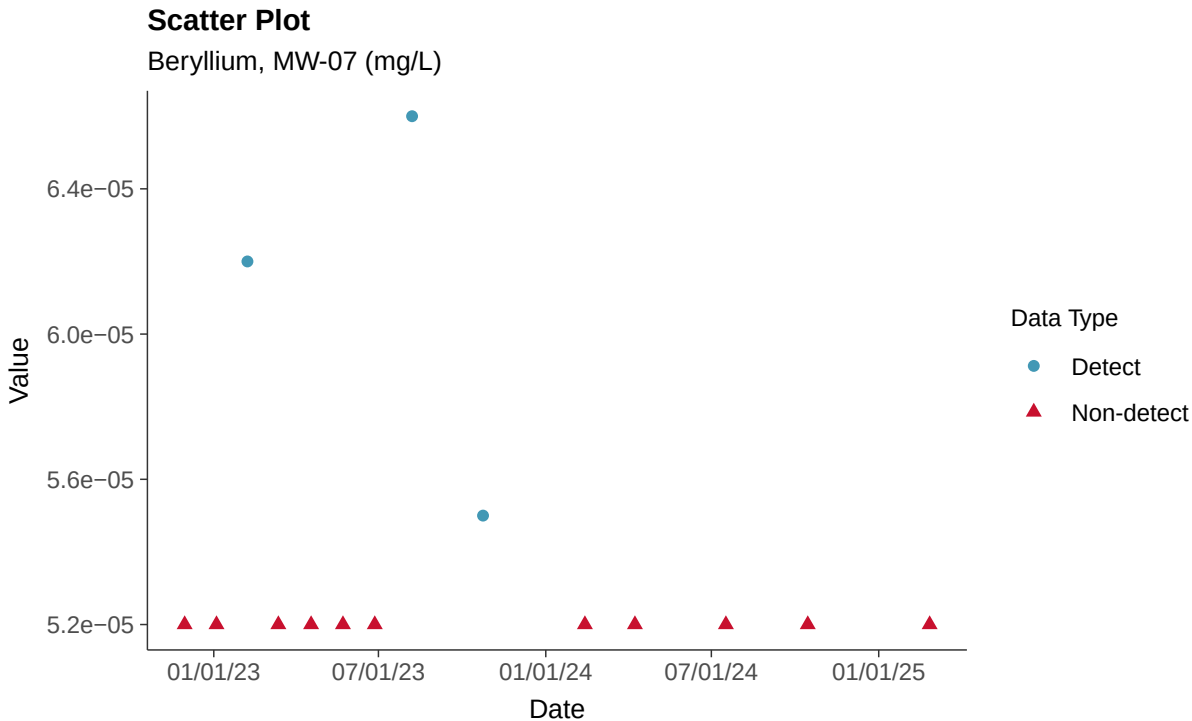


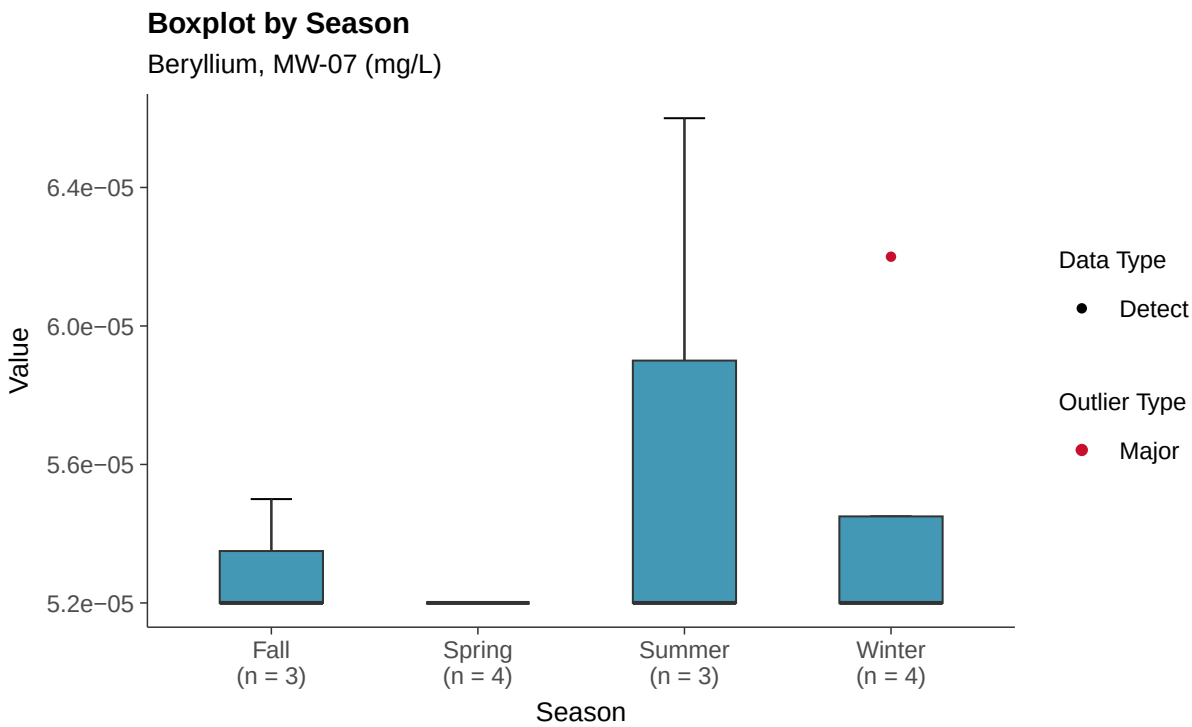
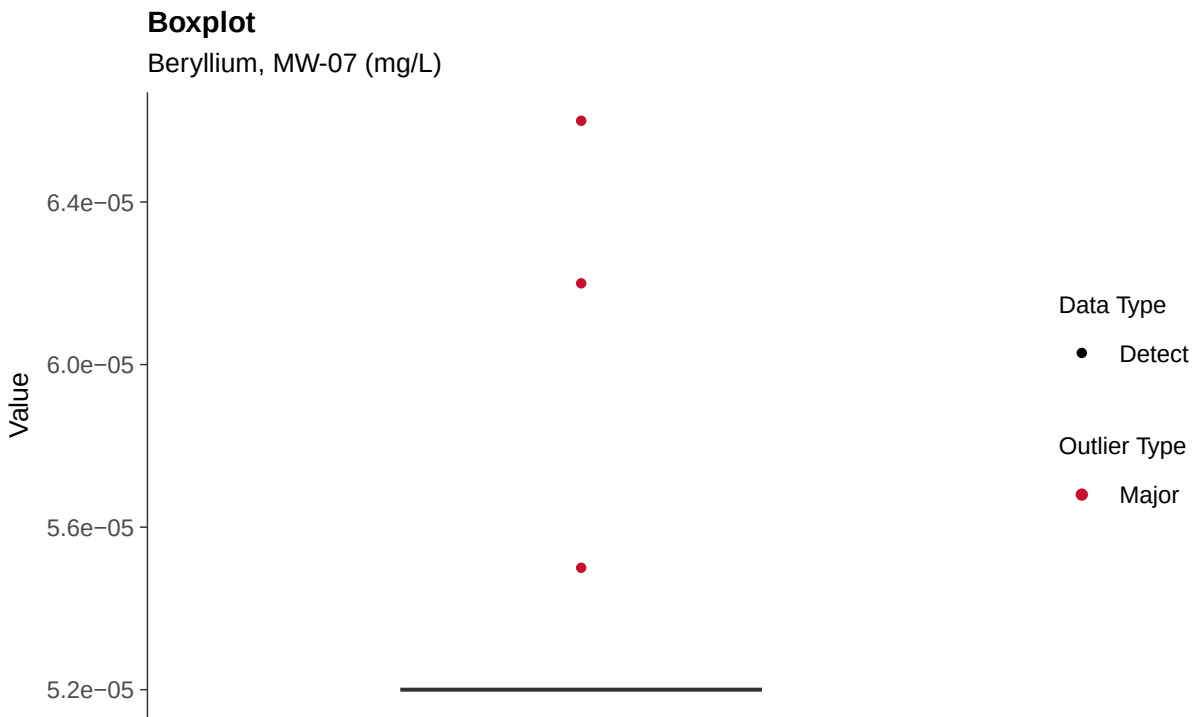


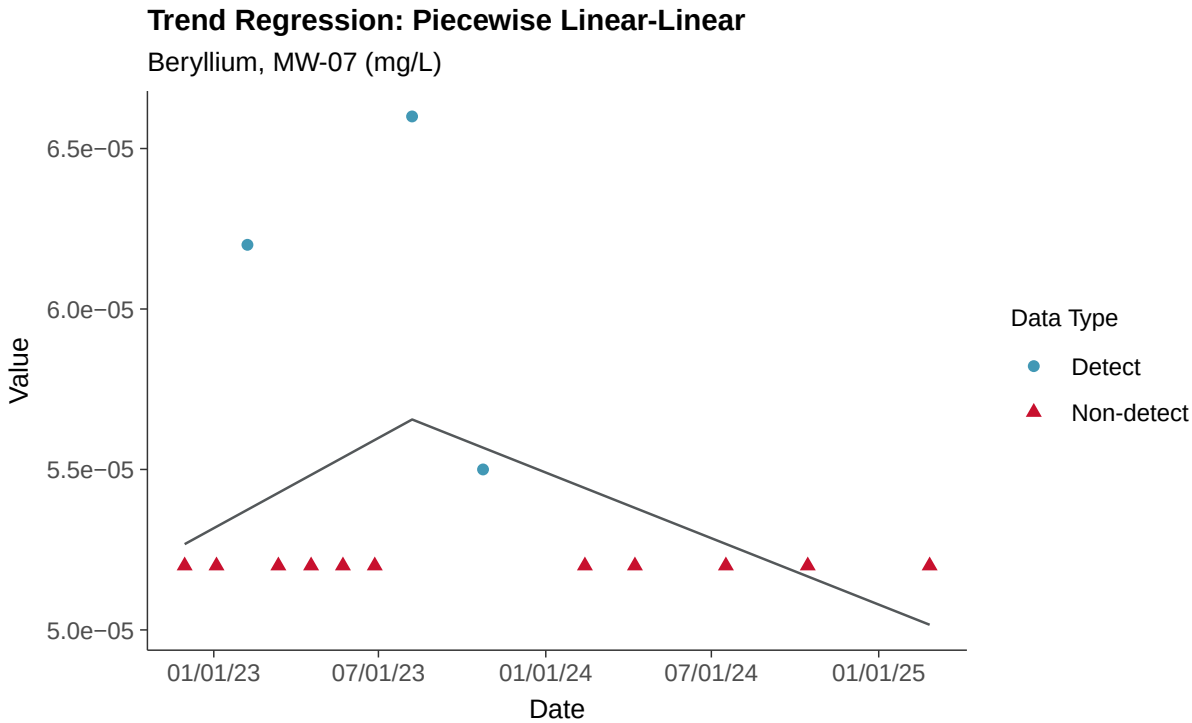
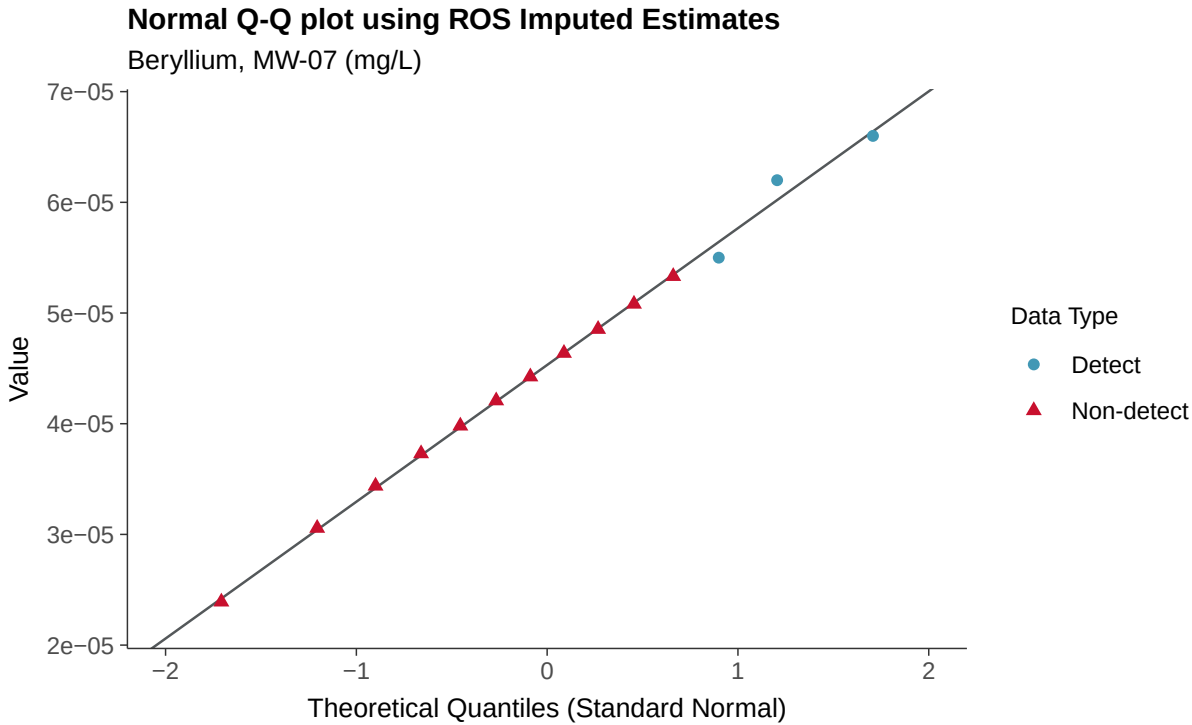


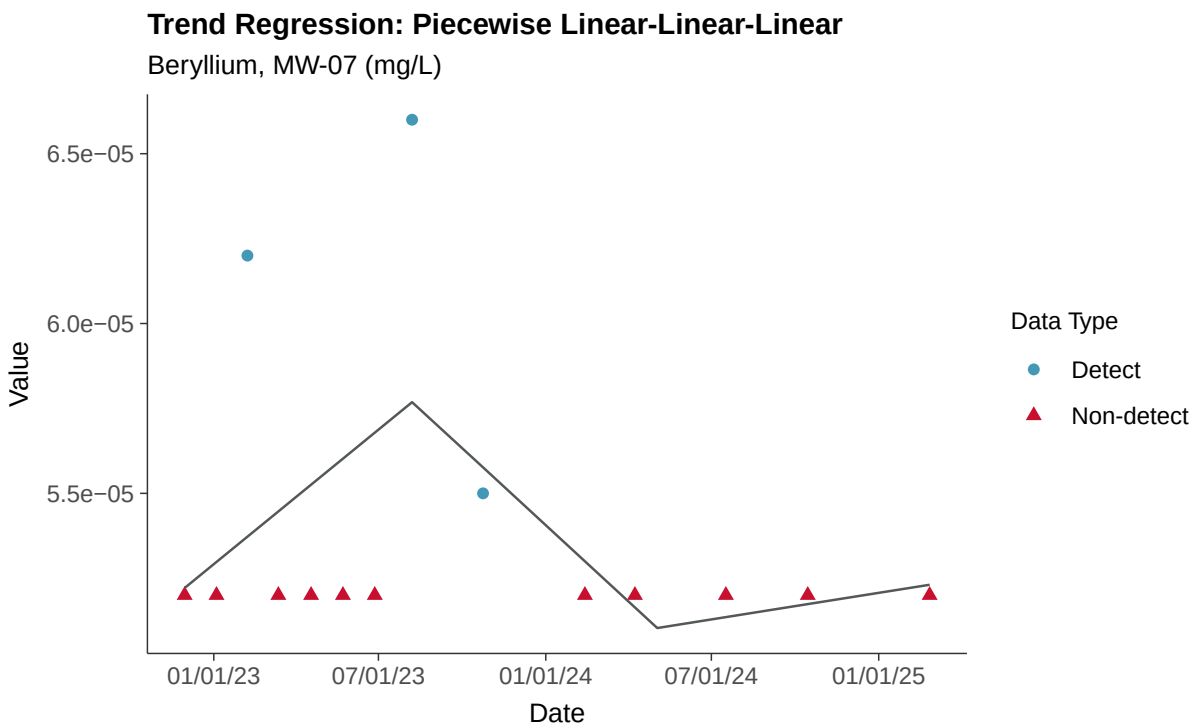
Appendix IV: Beryllium, MW-07

ID: 17_1_4_104





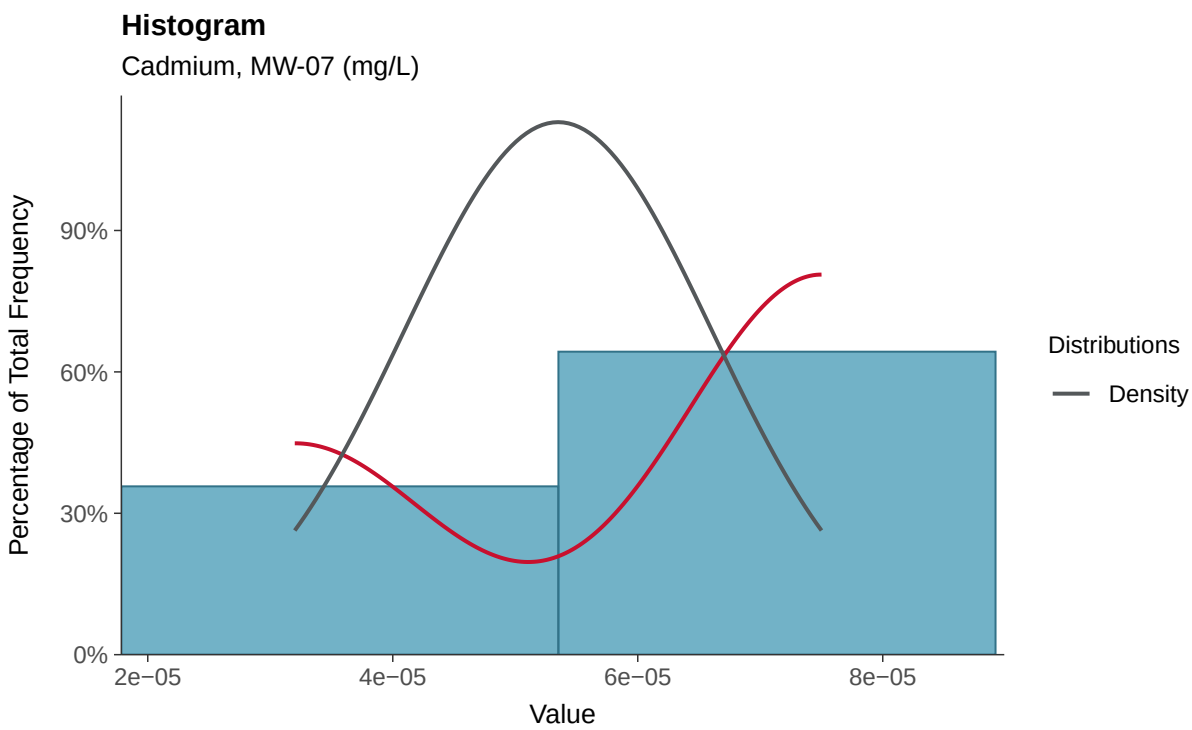
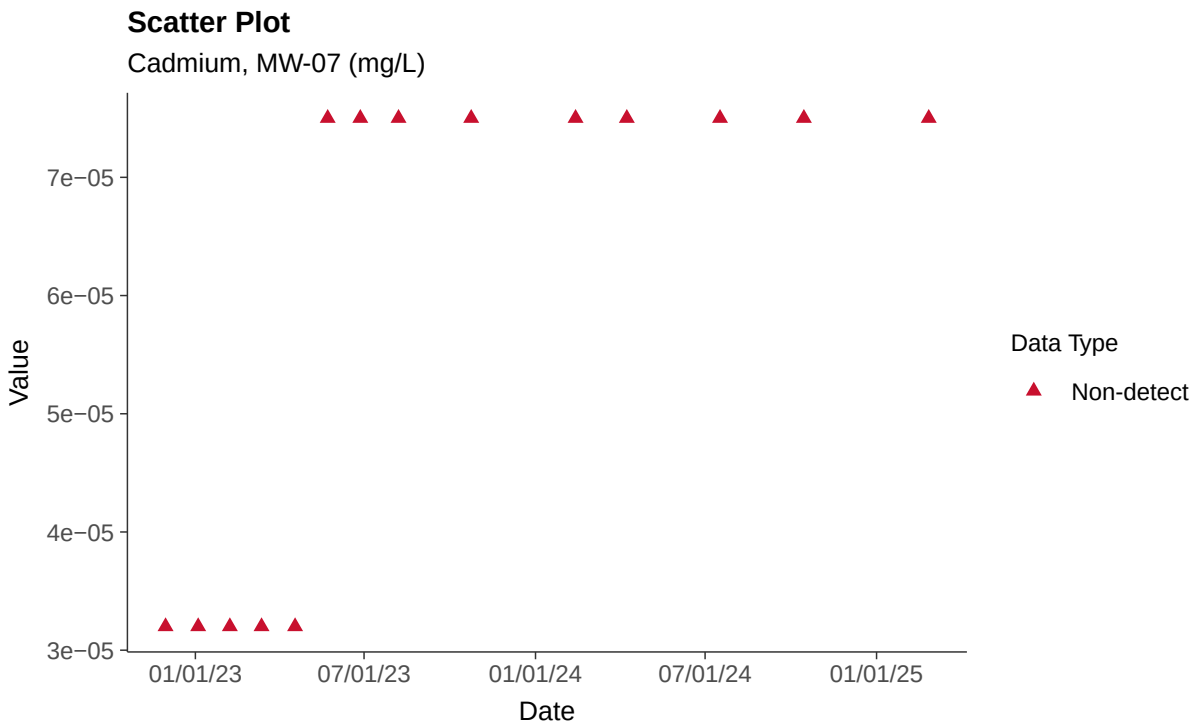


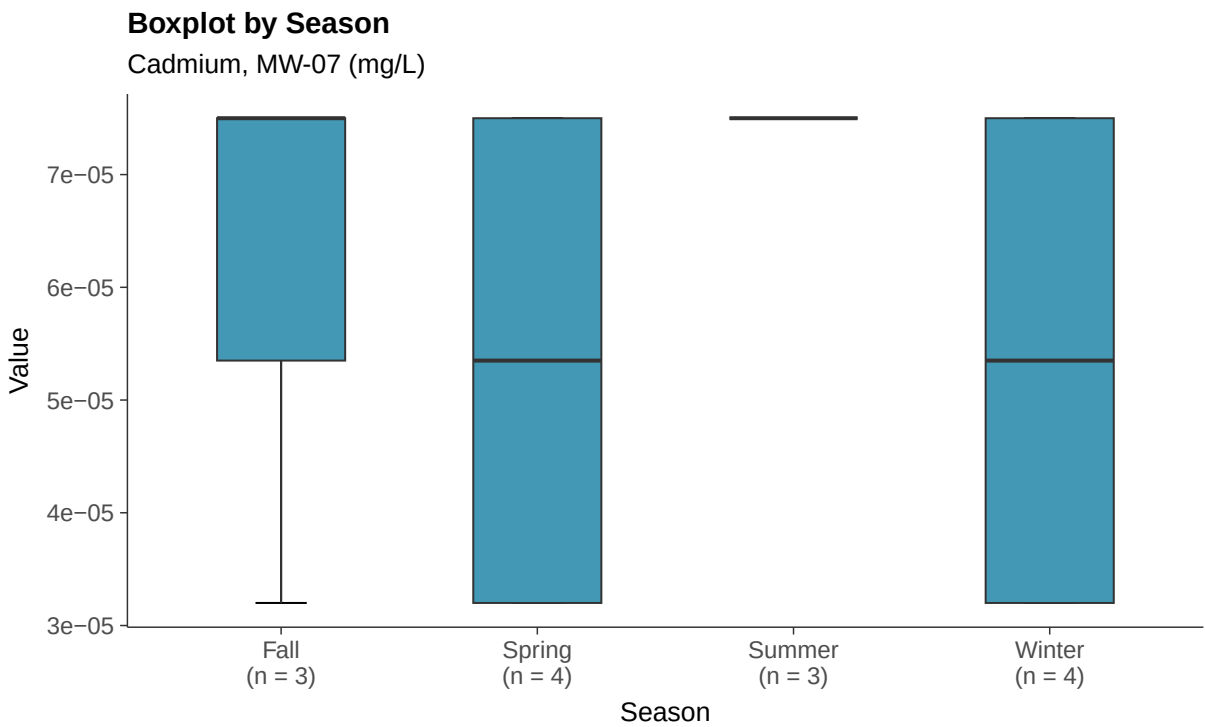
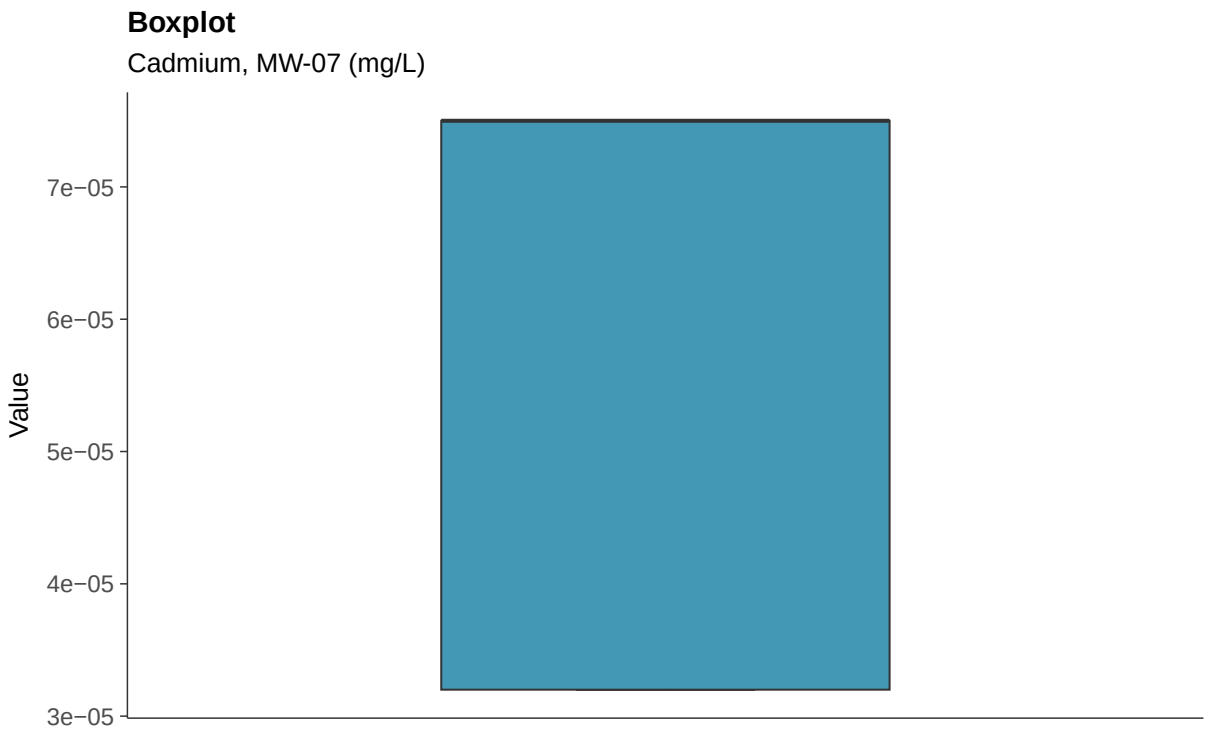


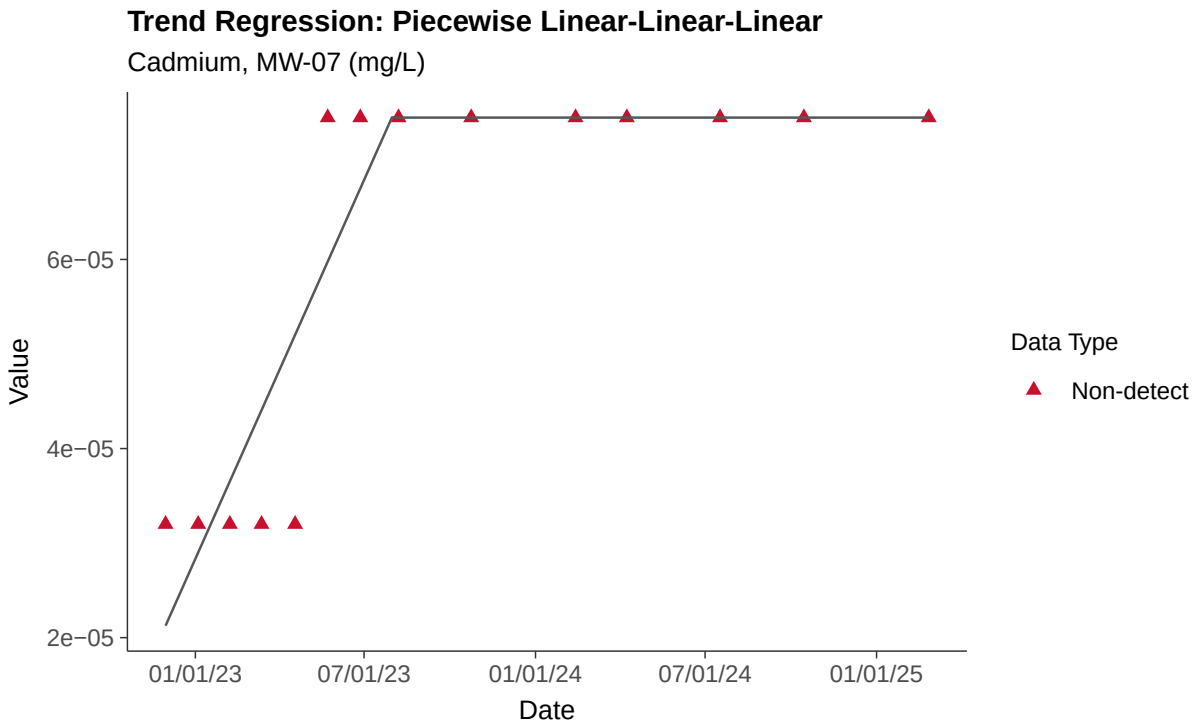
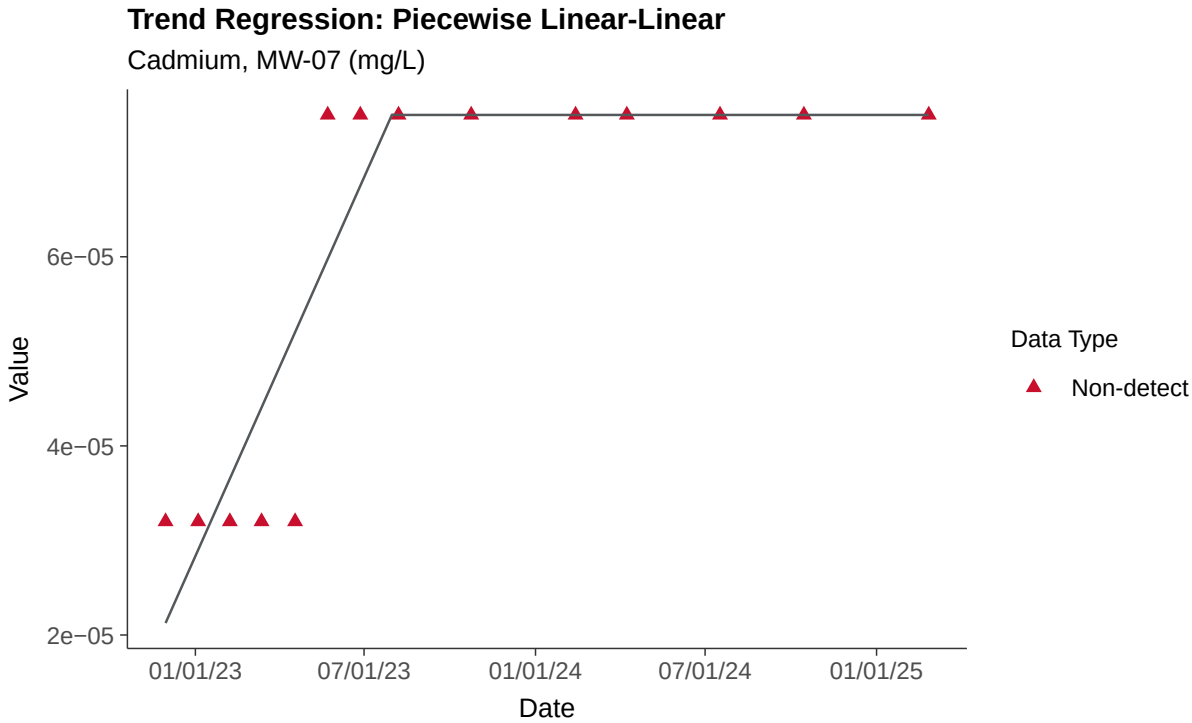


Appendix IV: Cadmium, MW-07

ID: 17_1_4_106



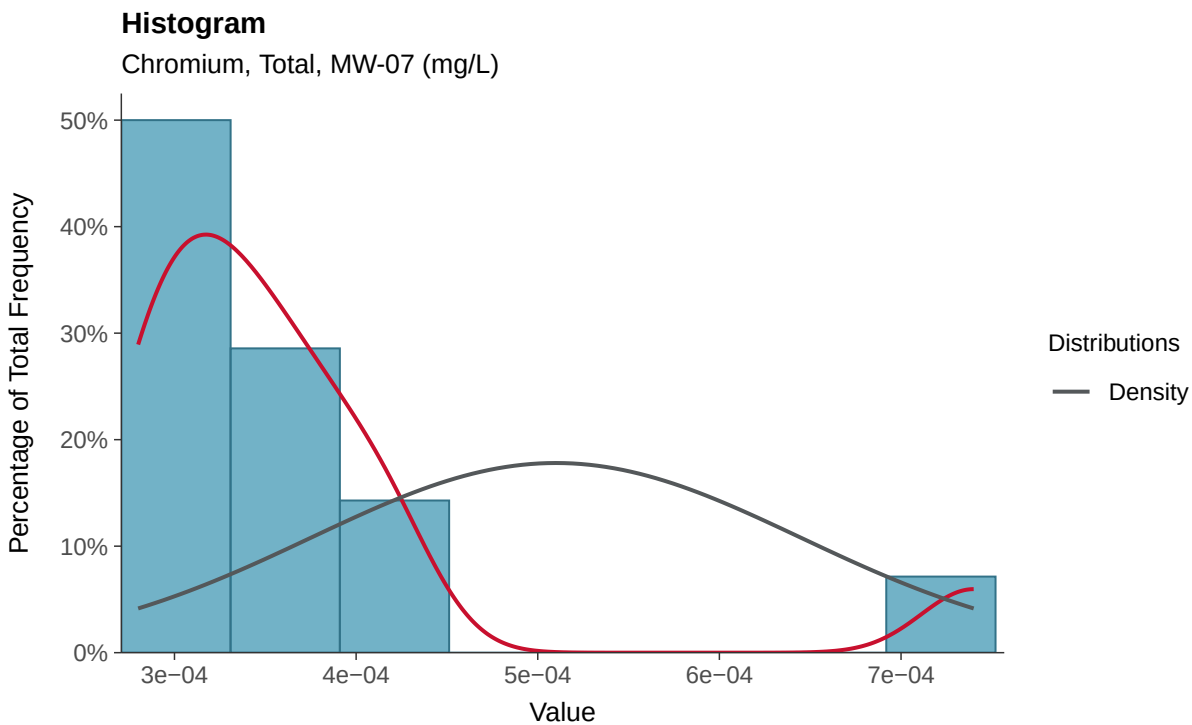
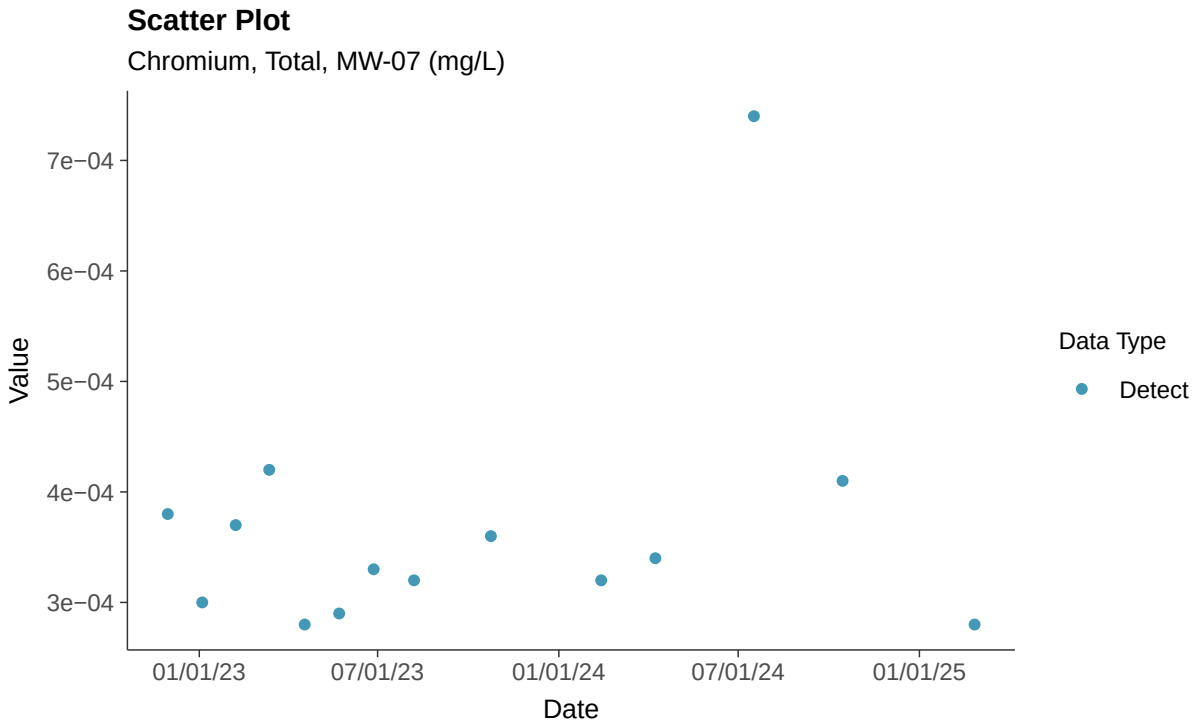


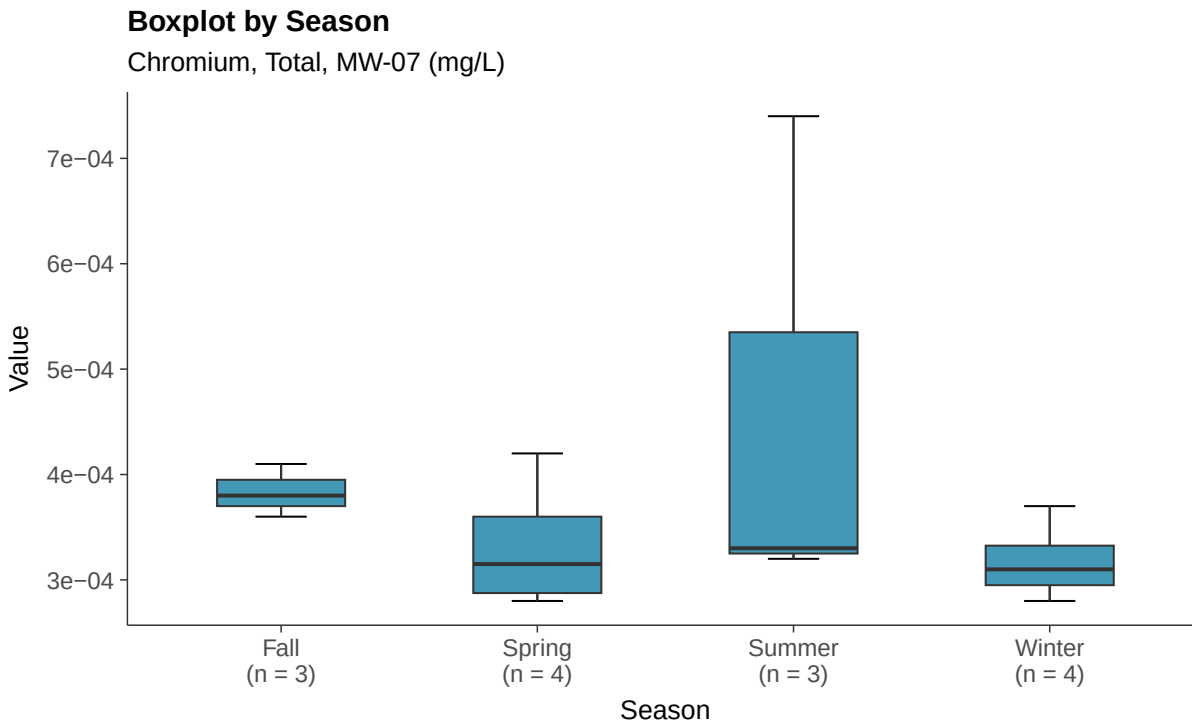
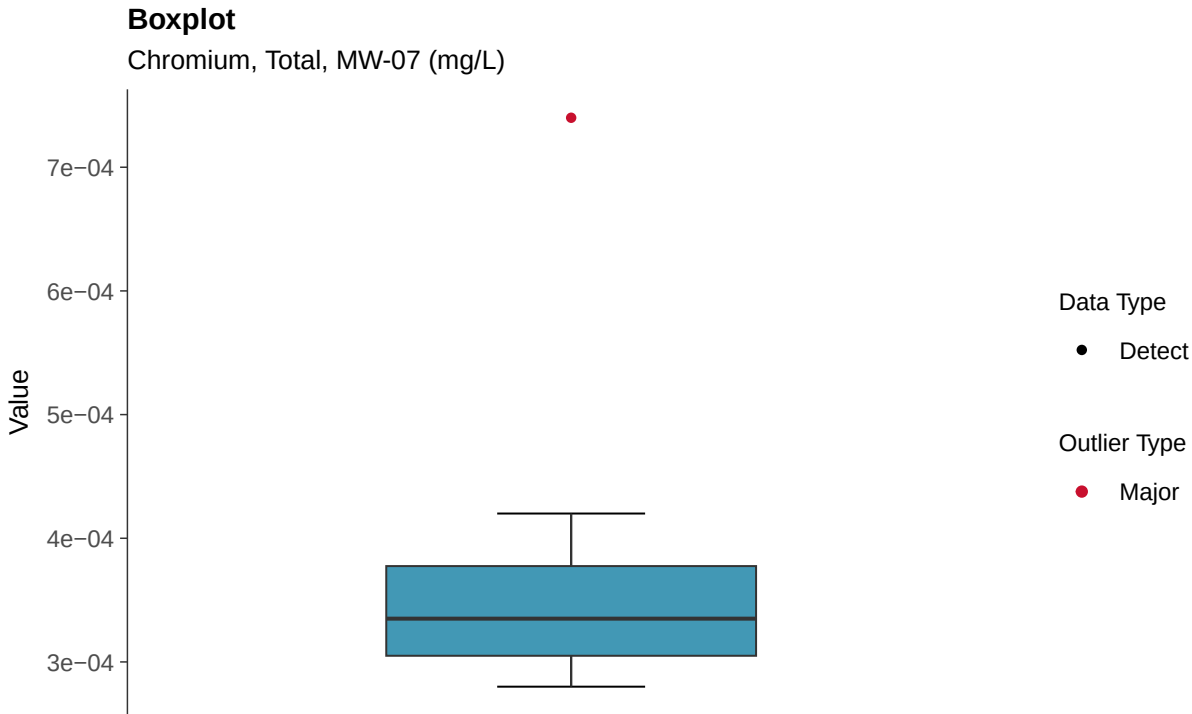


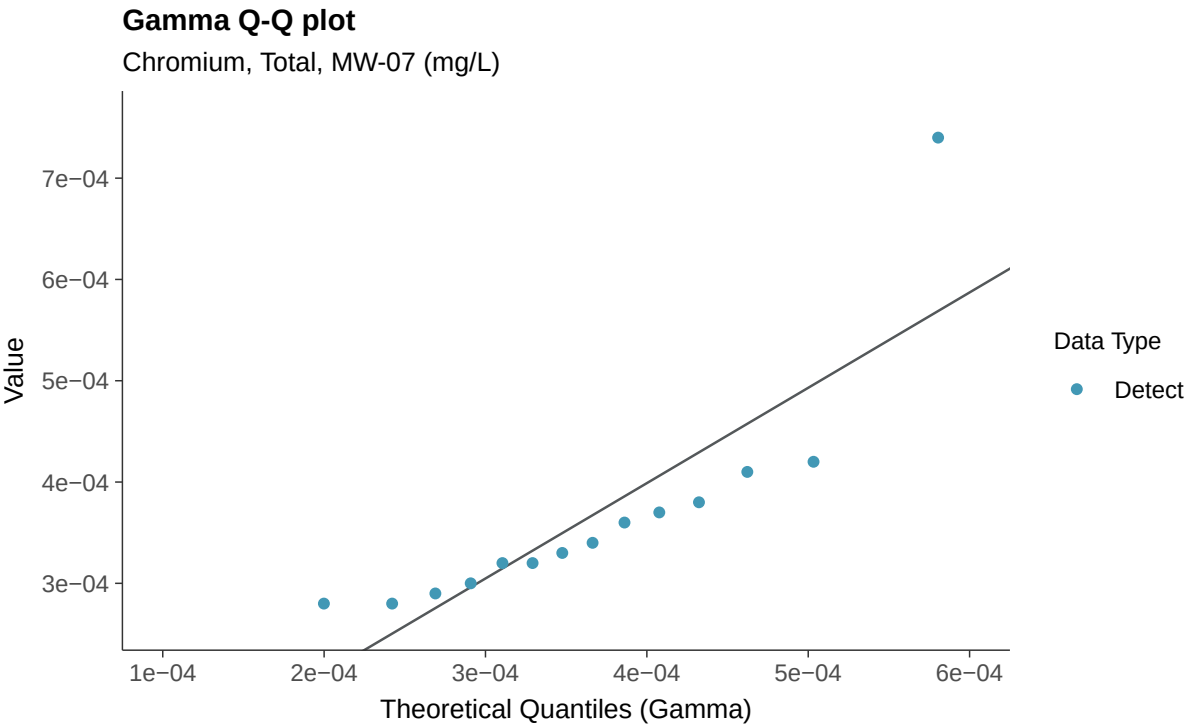
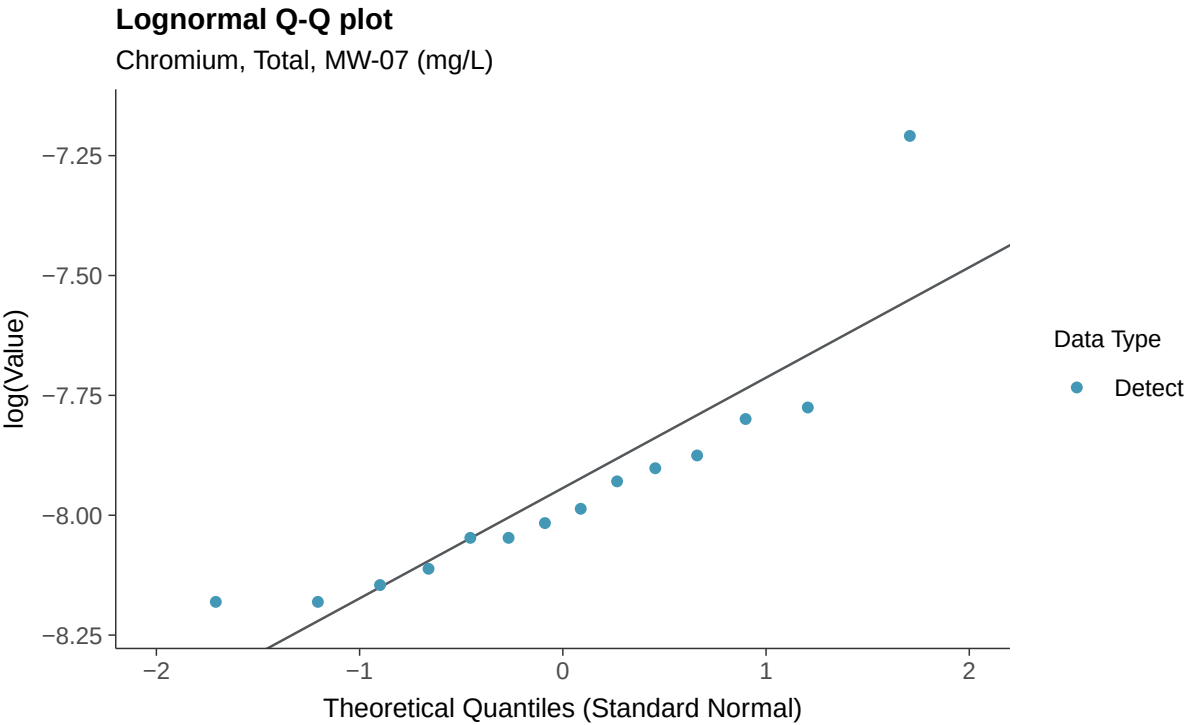


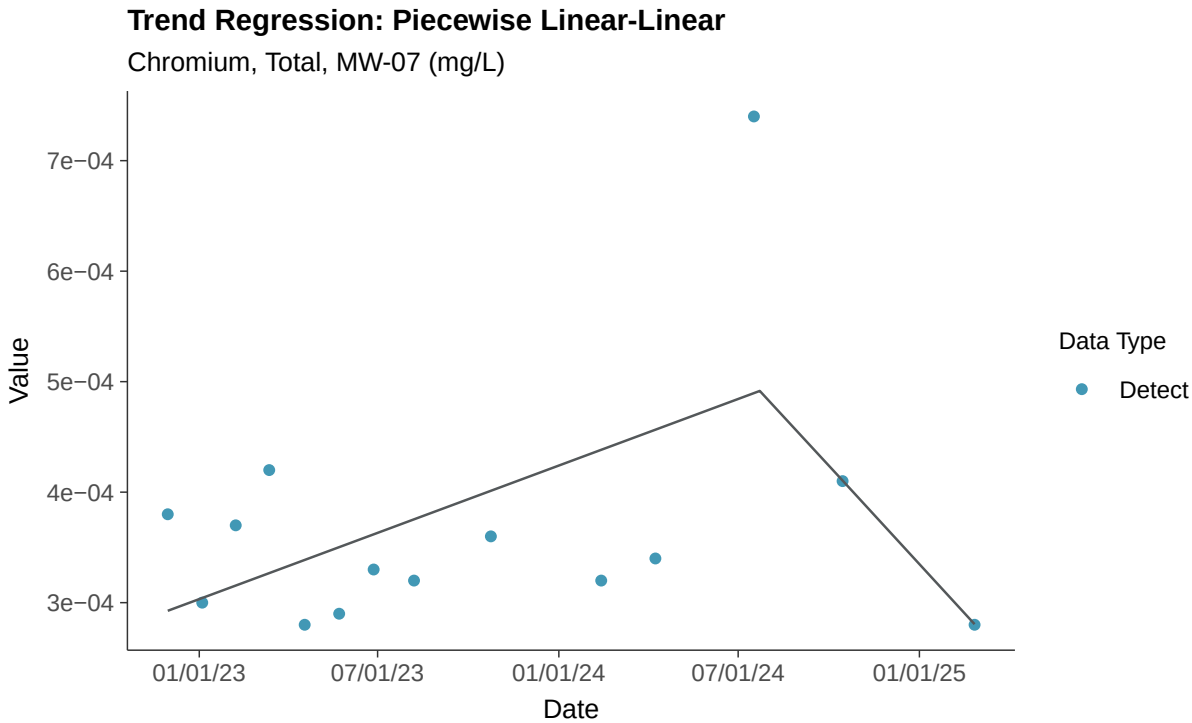
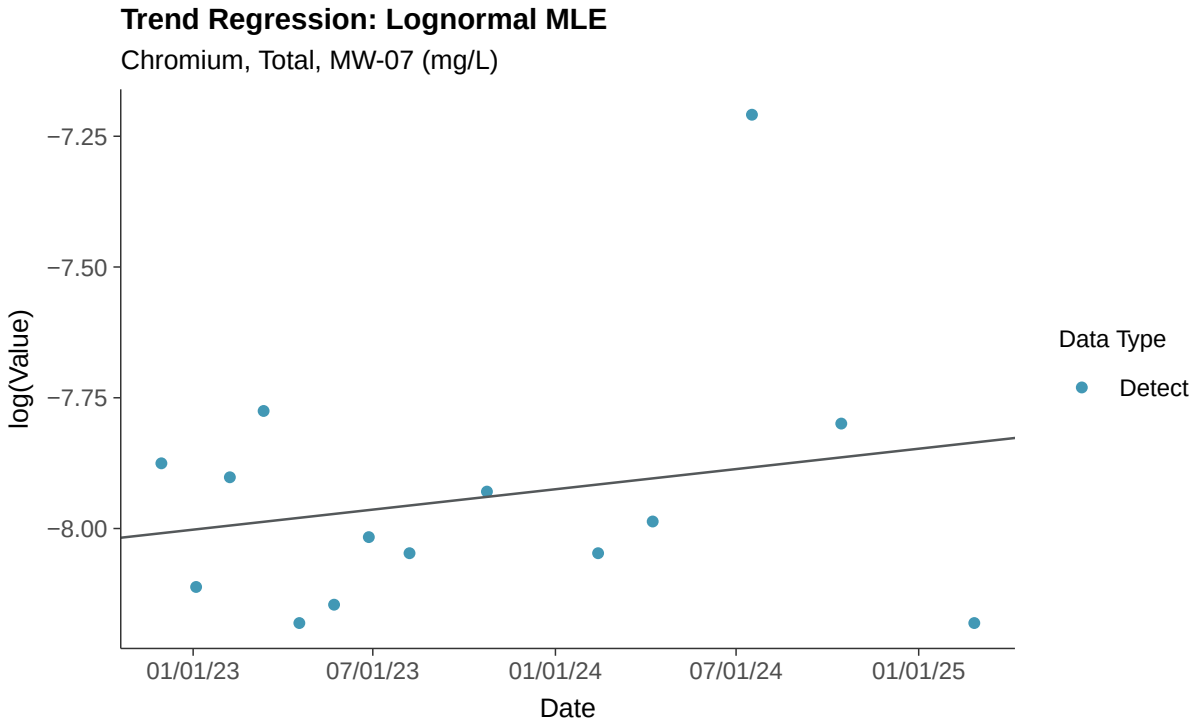
Appendix IV: Chromium, Total, MW-07

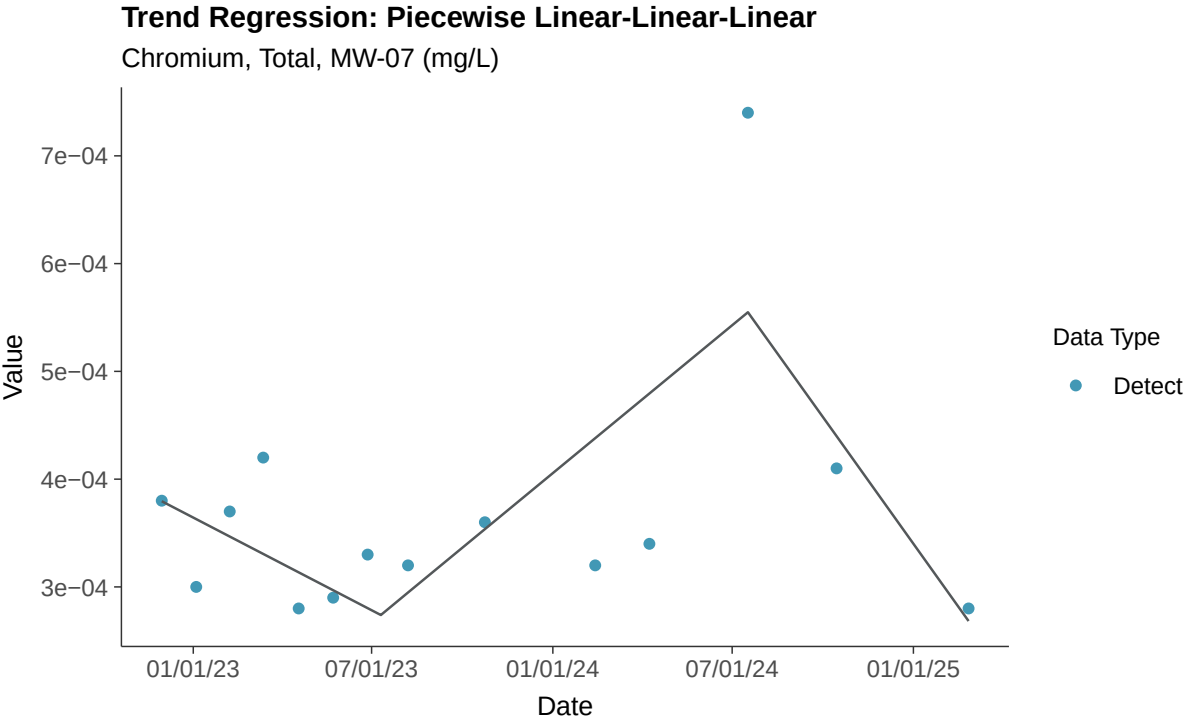
ID: 17_1_4_109







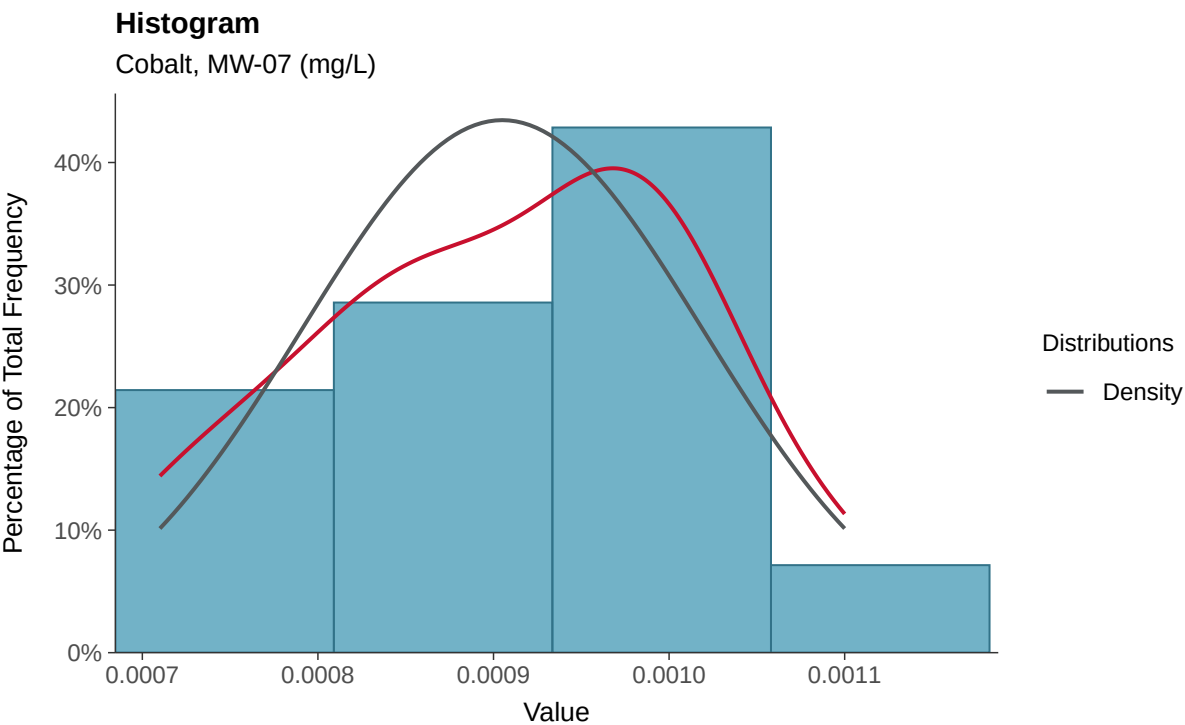
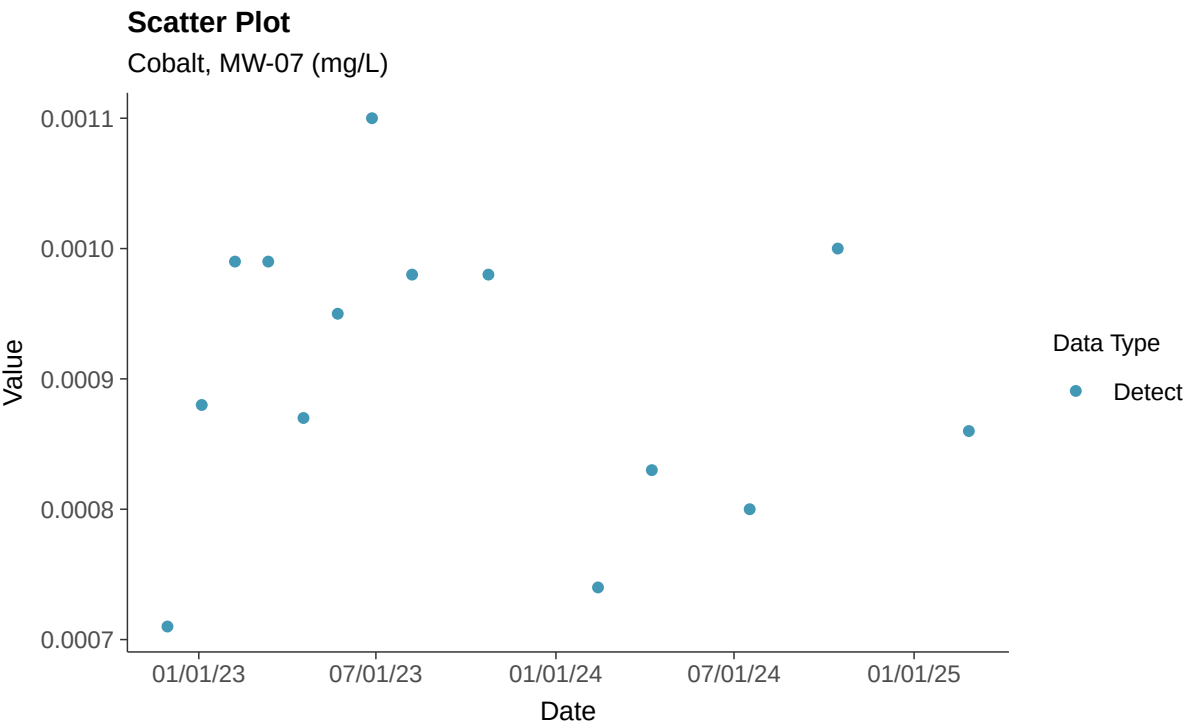


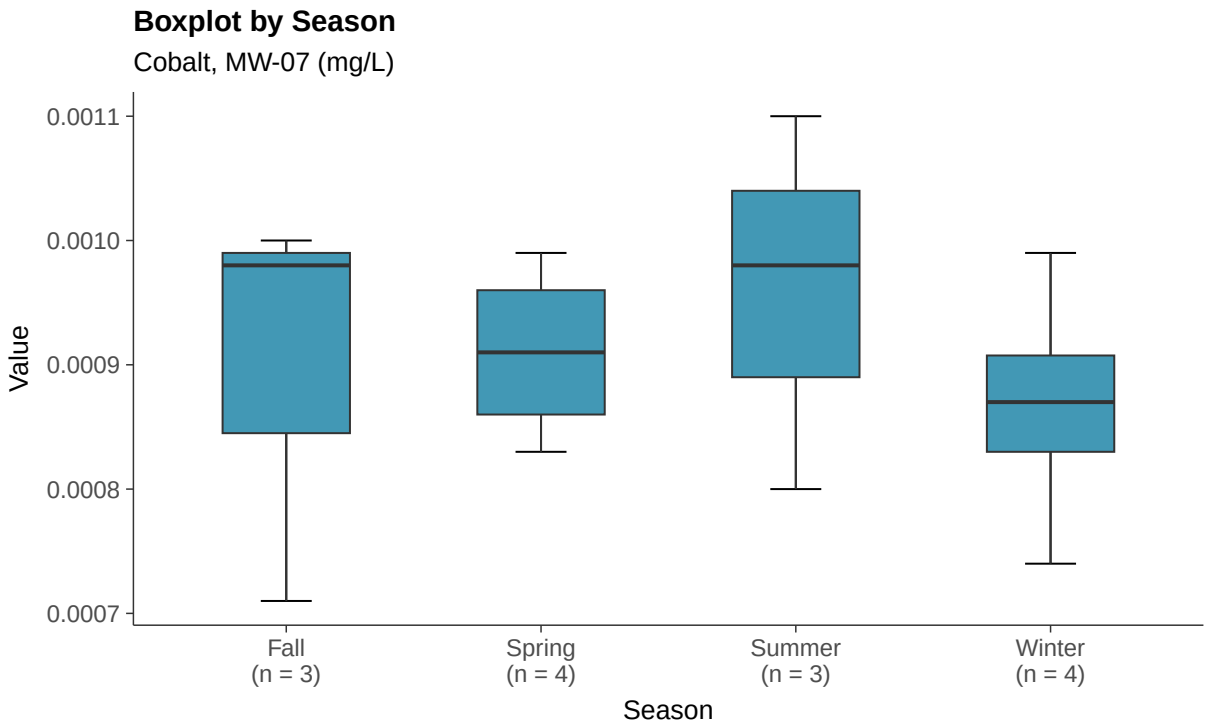
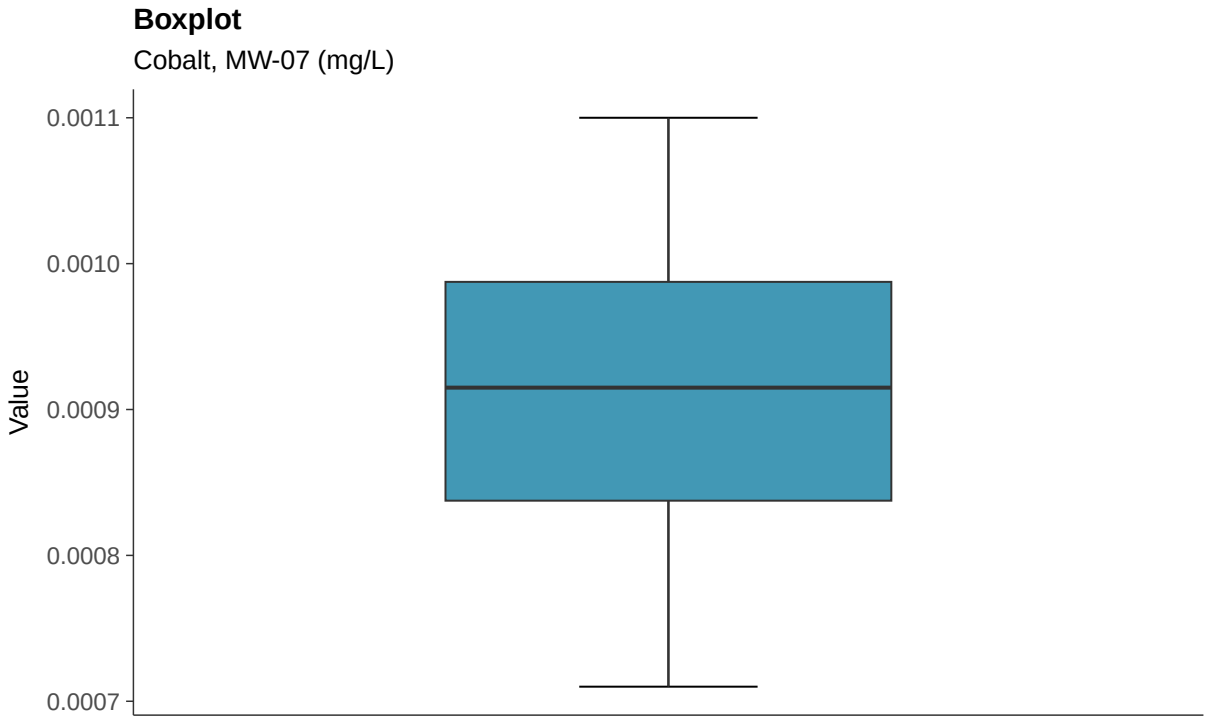


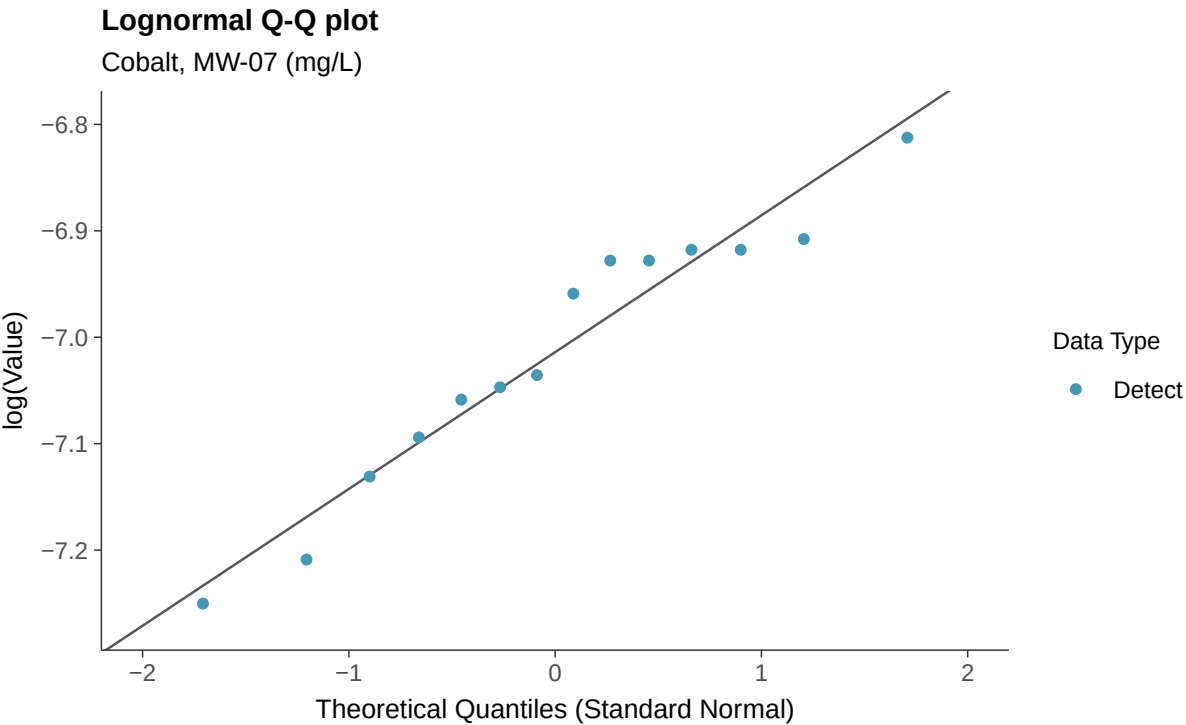
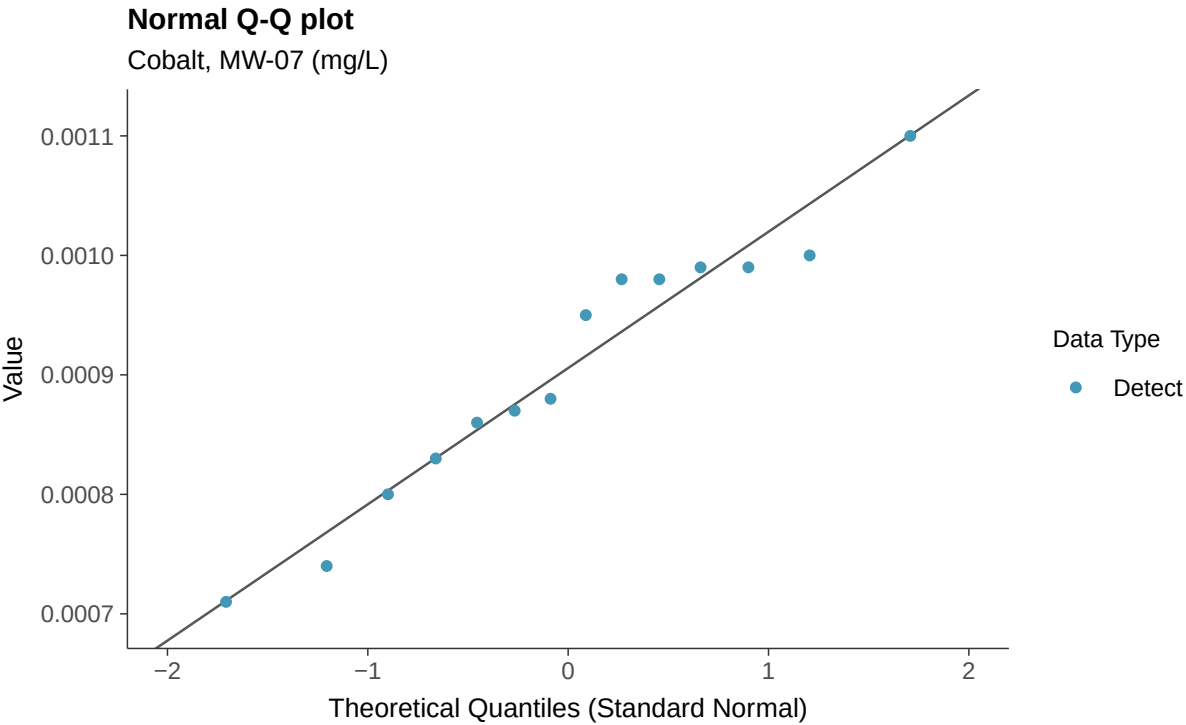


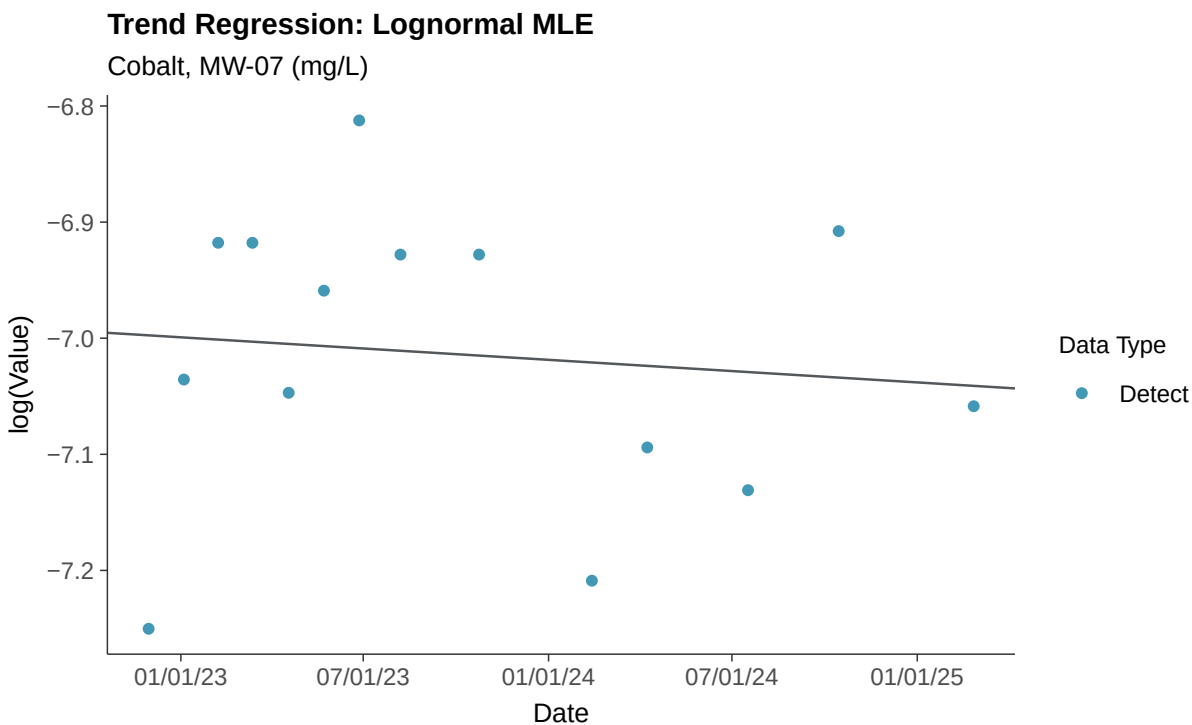
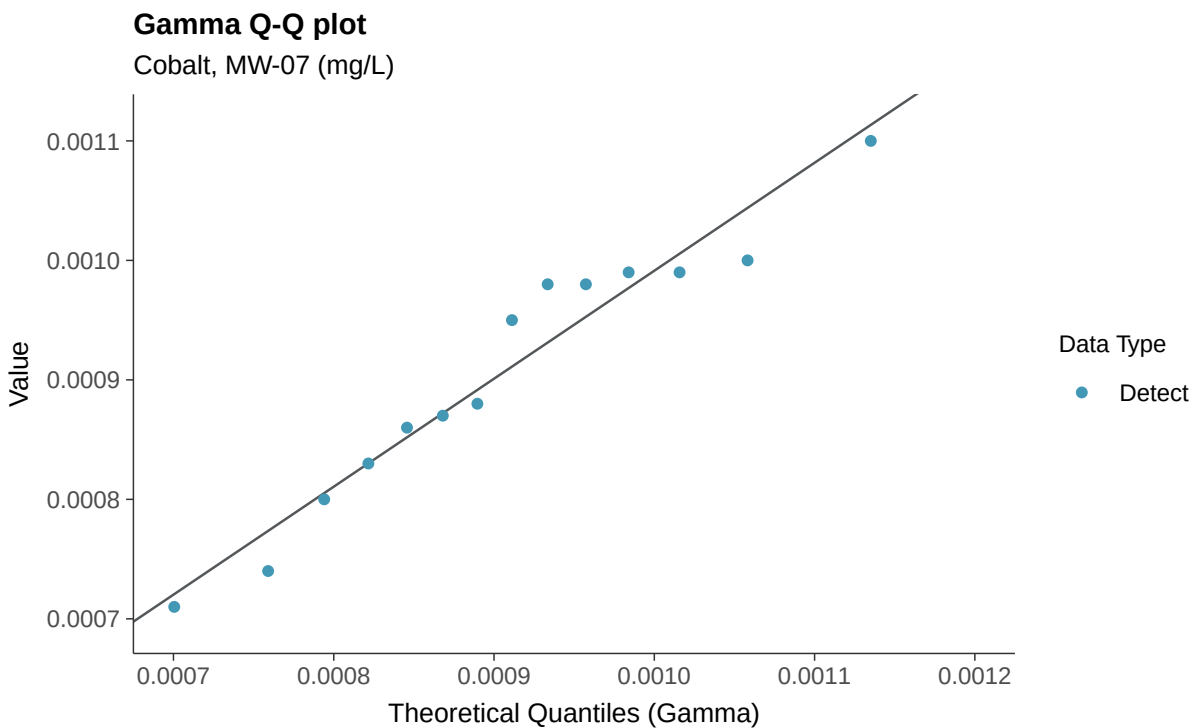
Appendix IV: Cobalt, MW-07

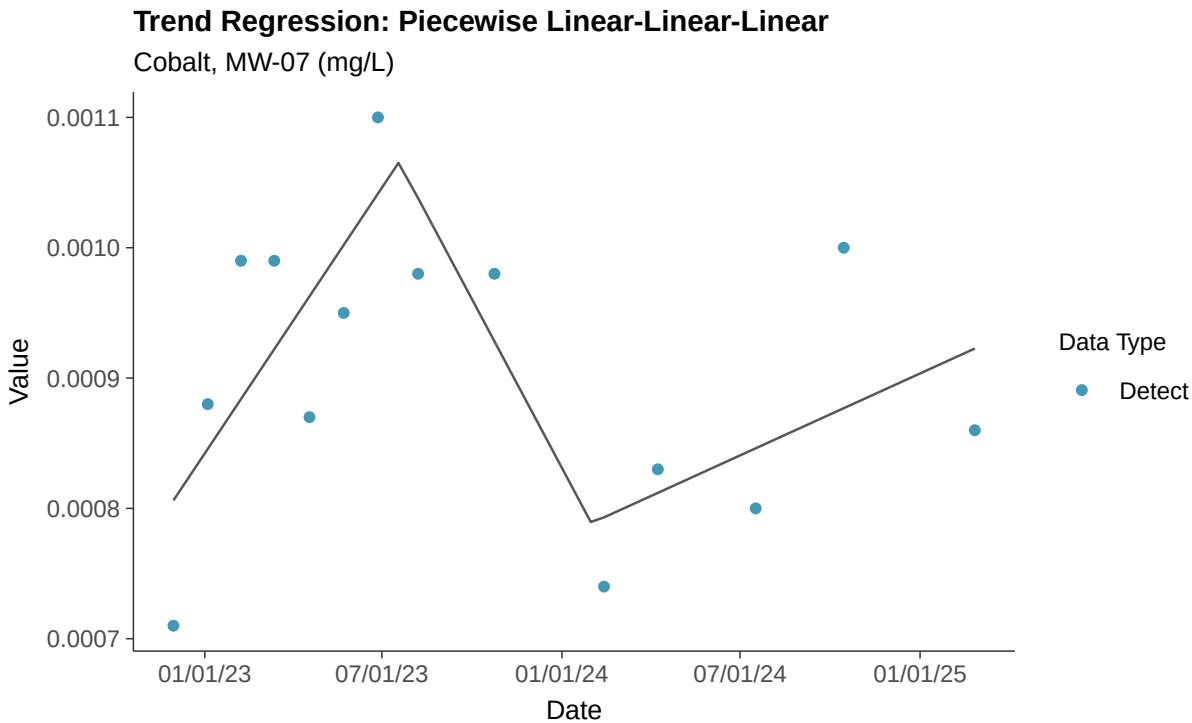
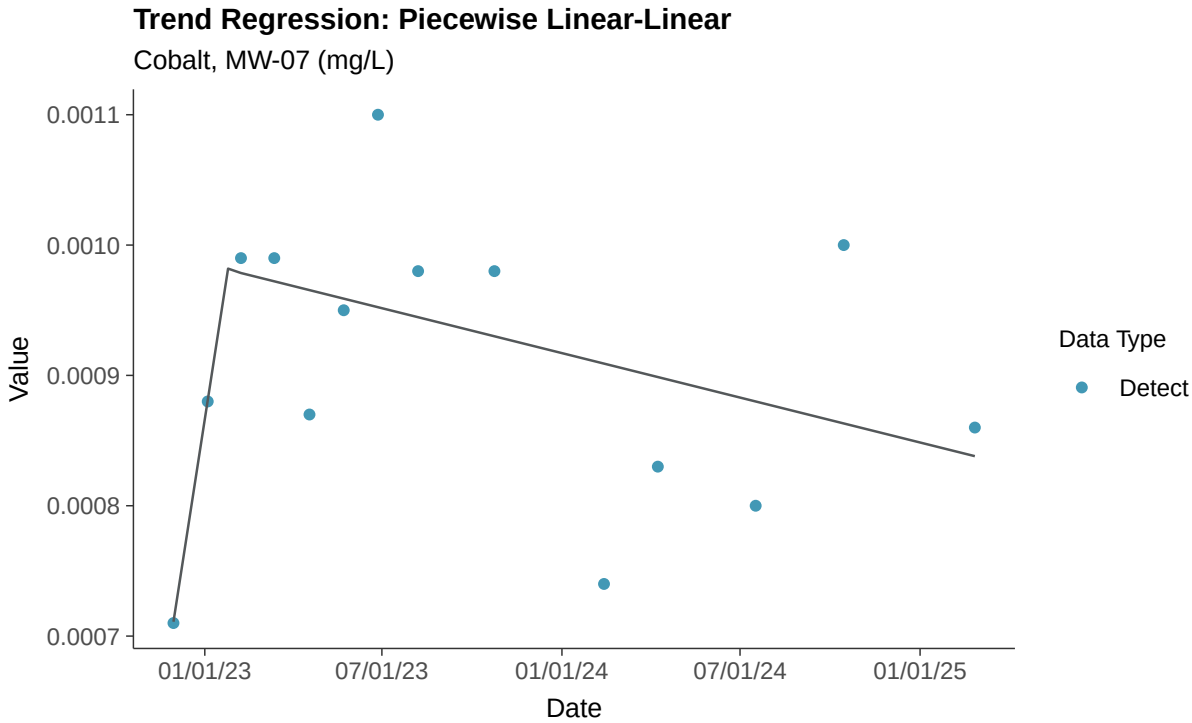
ID: 17_1_4_110







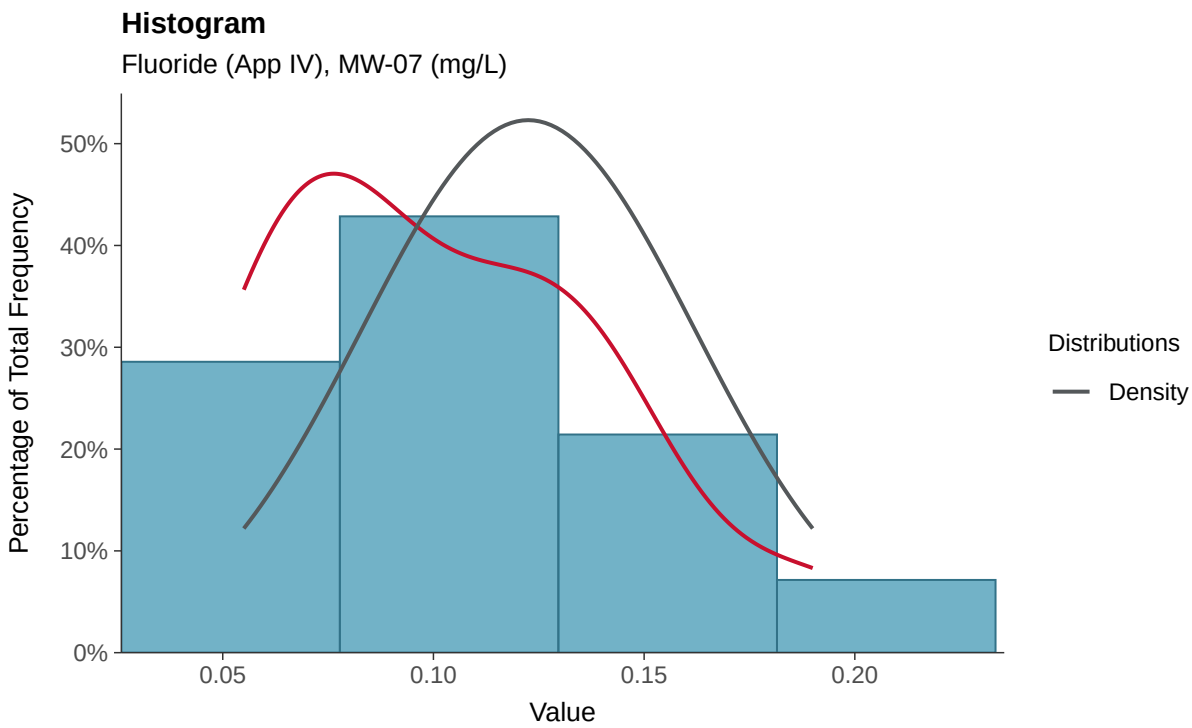
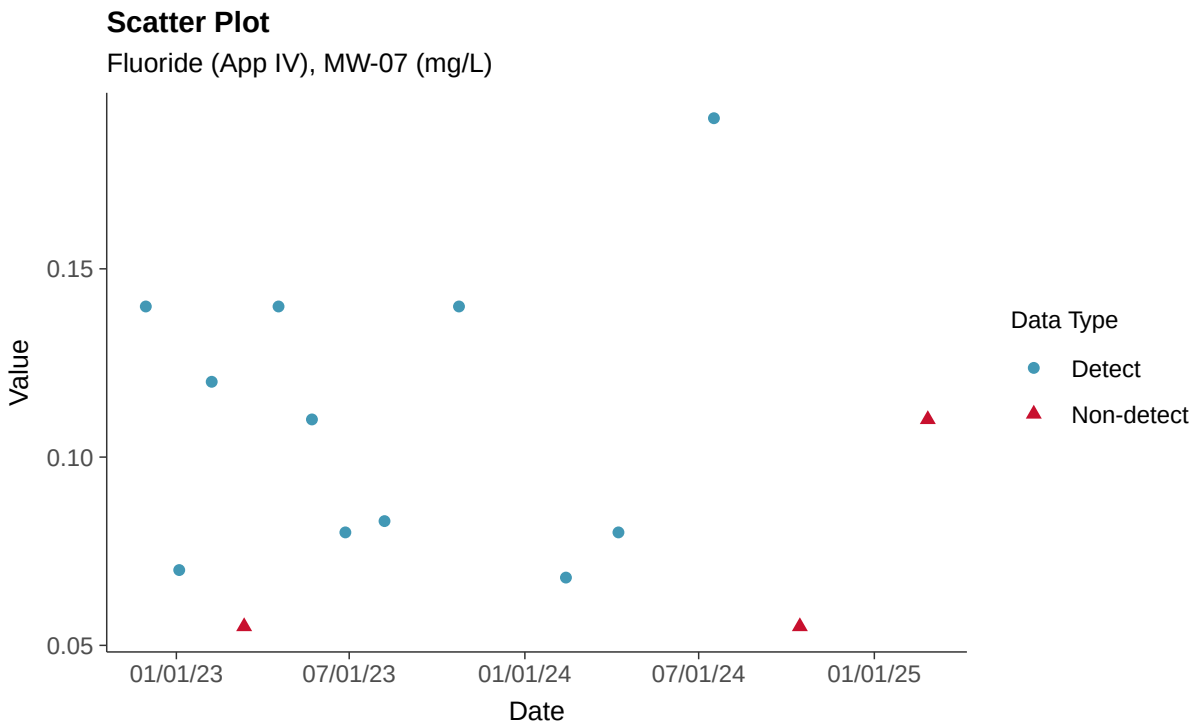


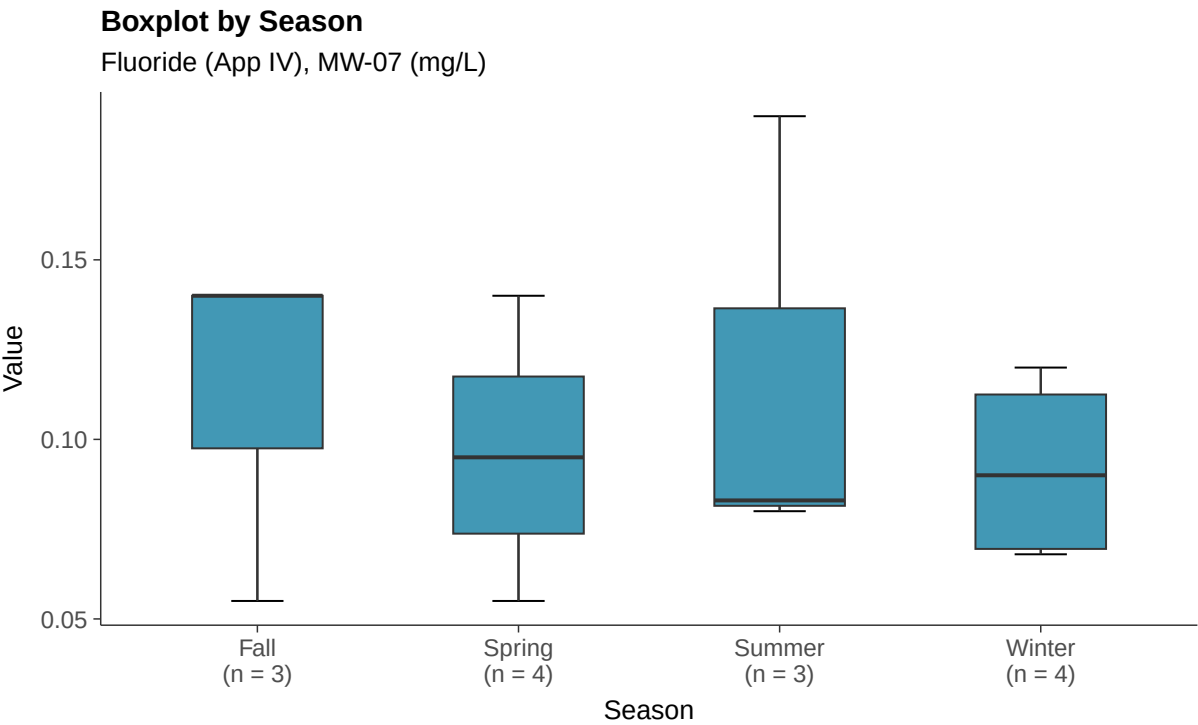
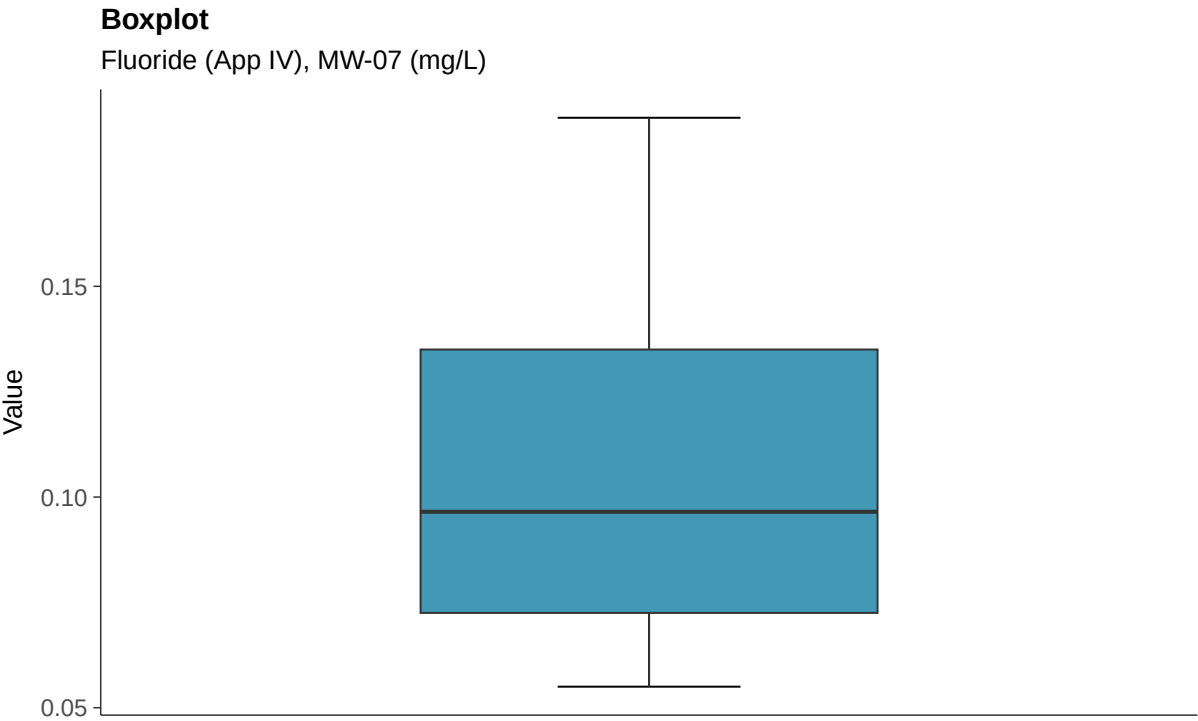




Appendix IV: Fluoride (App IV), MW-07

ID: 17_1_4_113

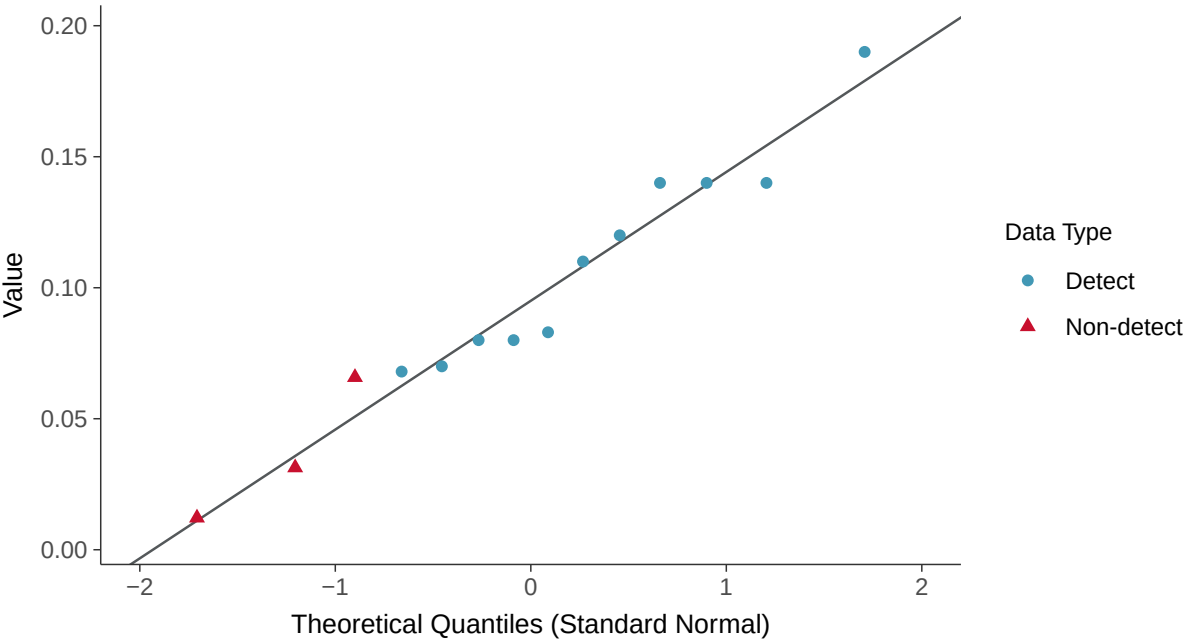






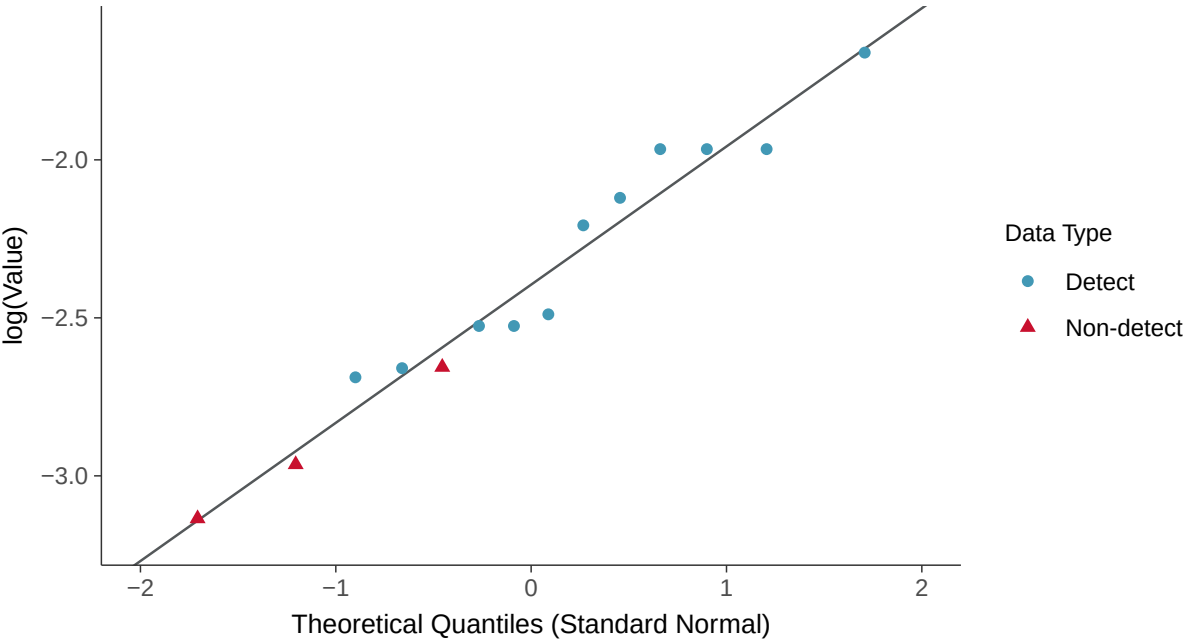
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

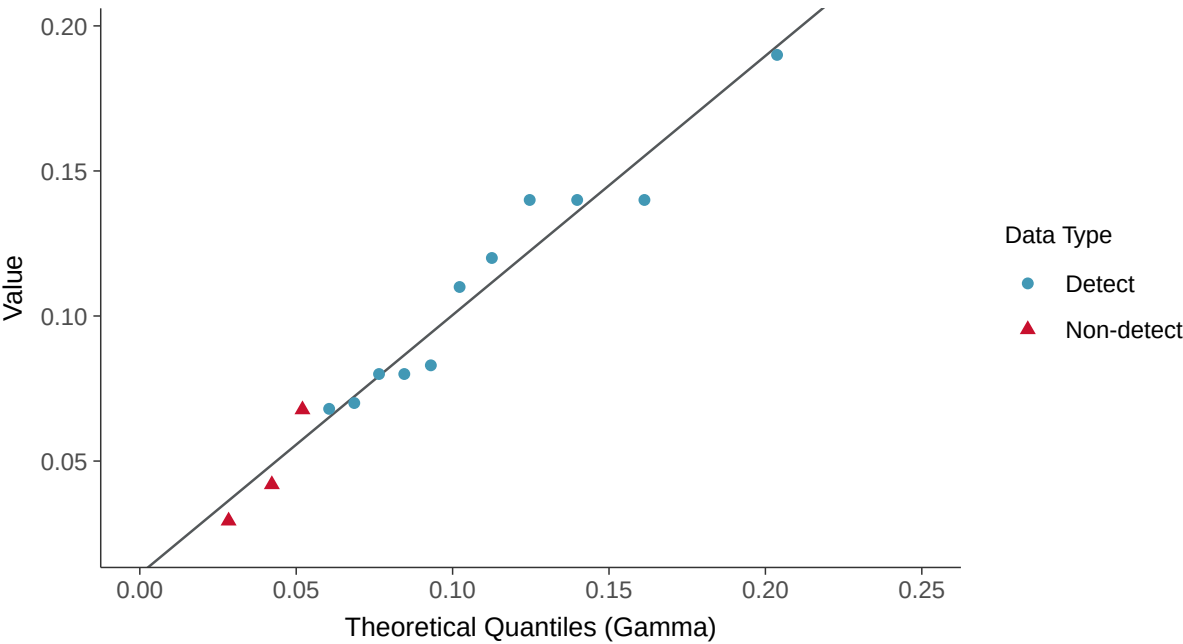
Fluoride (App IV), MW-07 (mg/L)





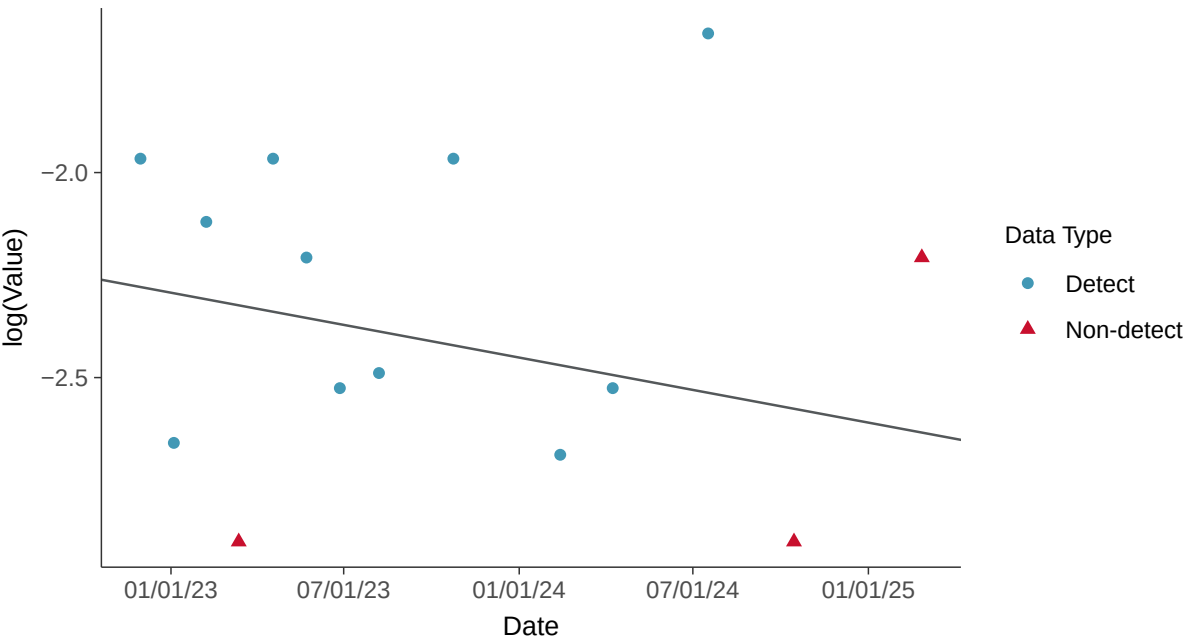
Gamma Q-Q plot using ROS Imputed Estimates

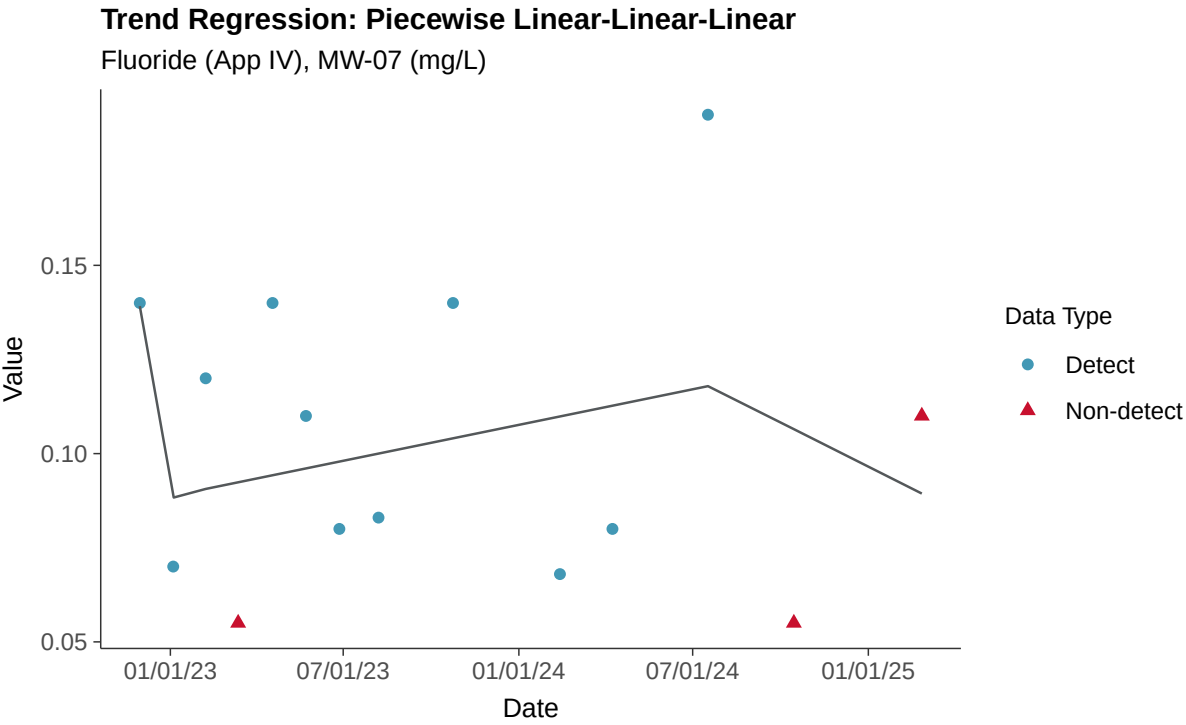
Fluoride (App IV), MW-07 (mg/L)



Trend Regression: Lognormal MLE

Fluoride (App IV), MW-07 (mg/L)

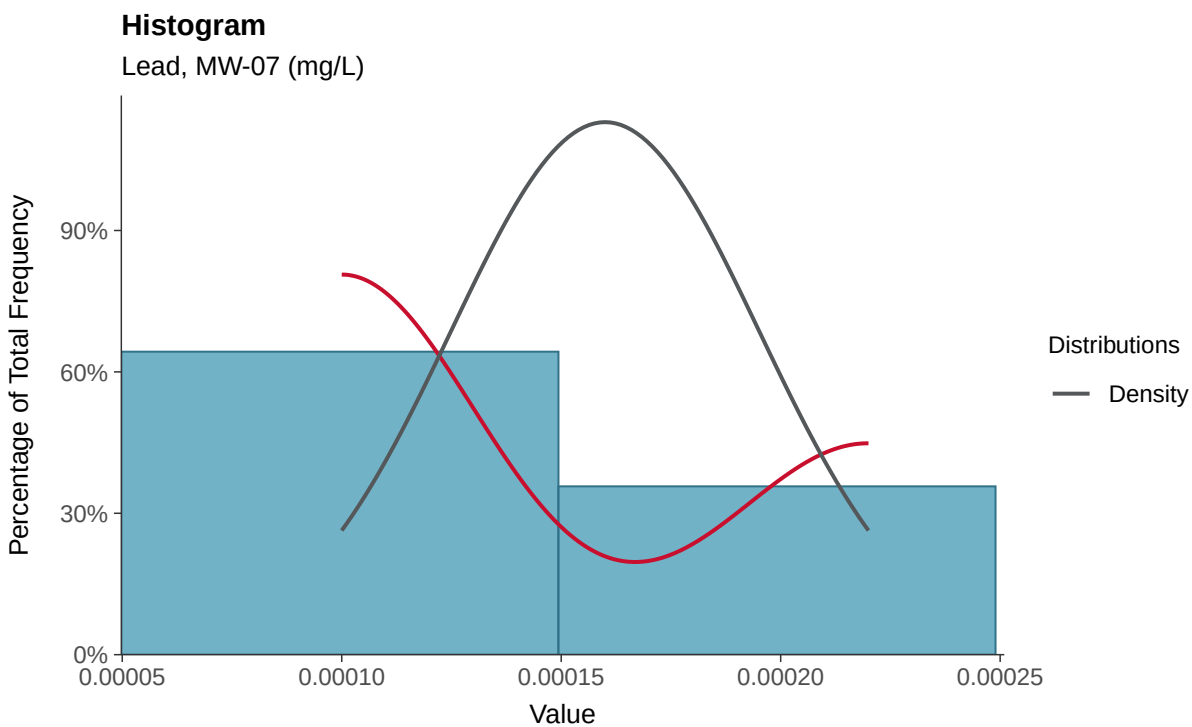
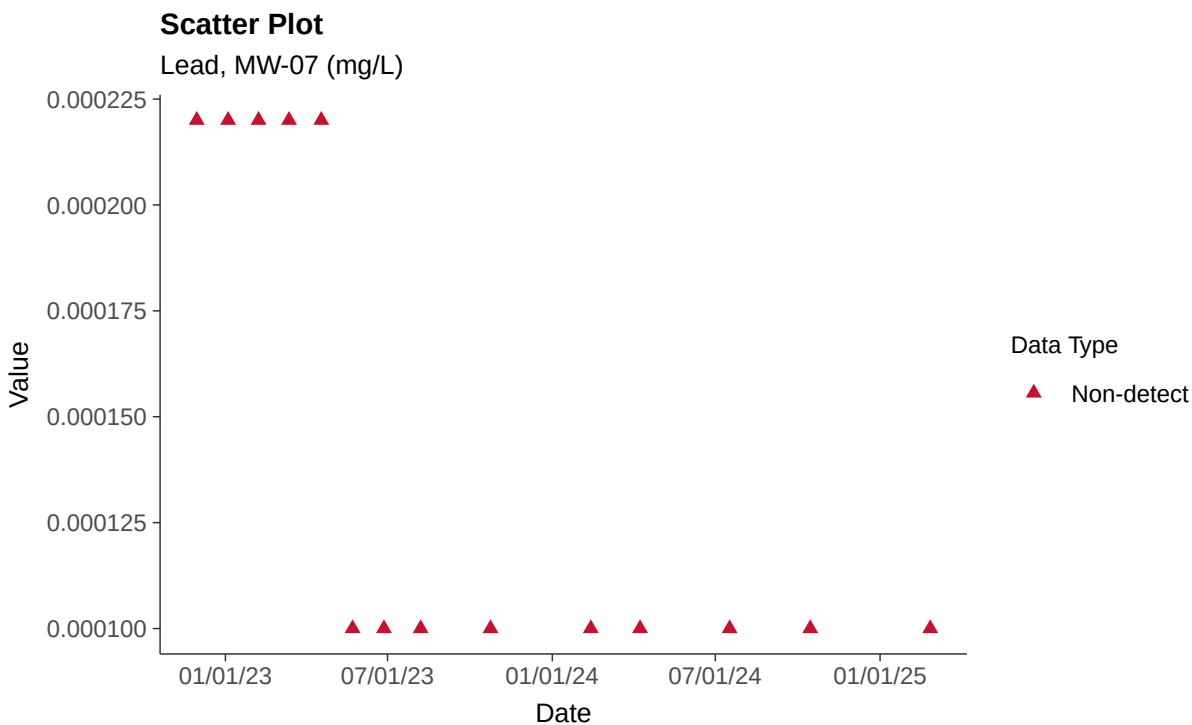


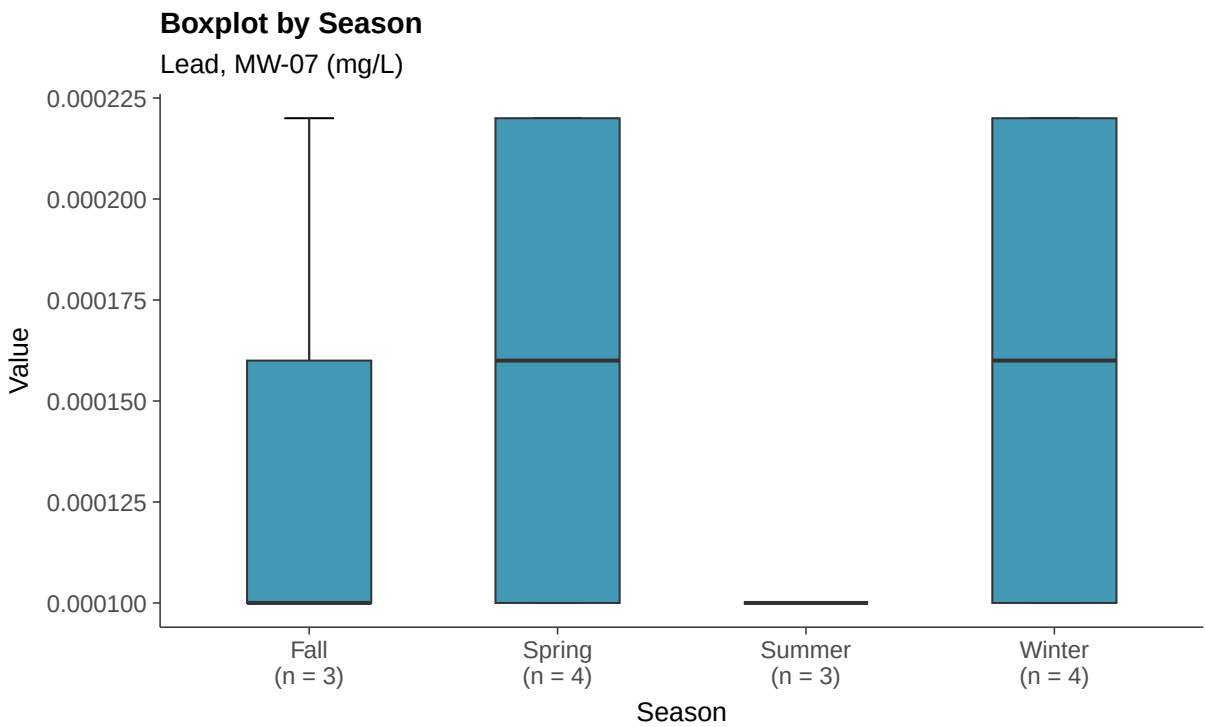
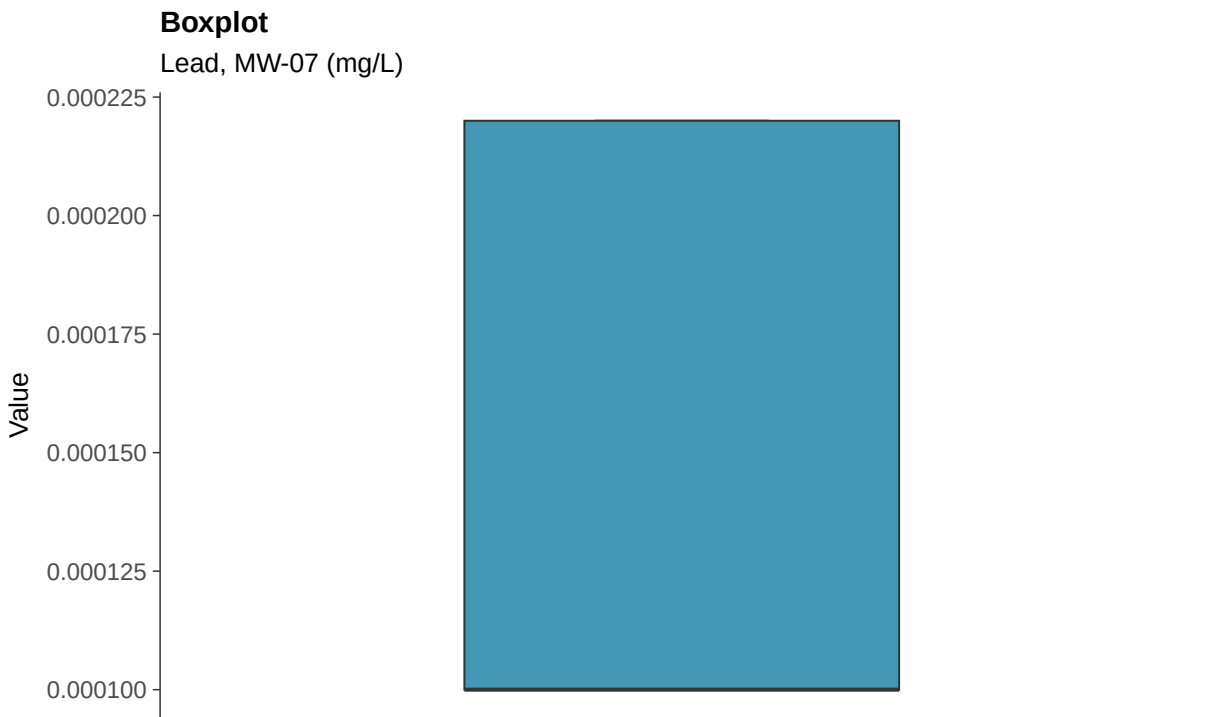




Appendix IV: Lead, MW-07

ID: 17_1_4_115

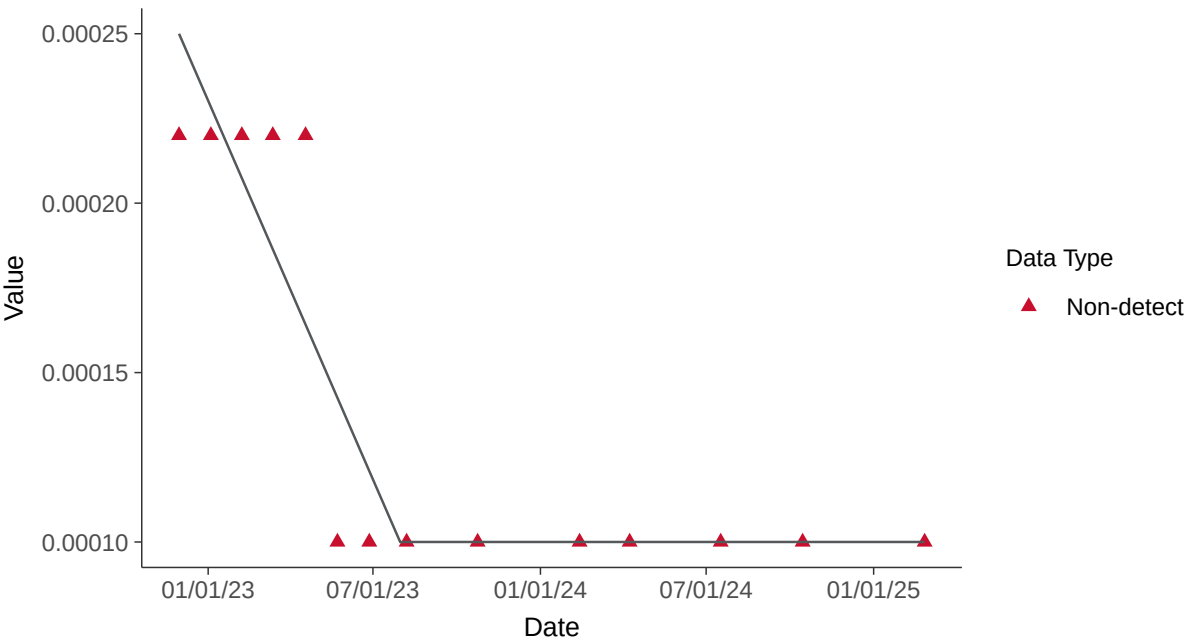






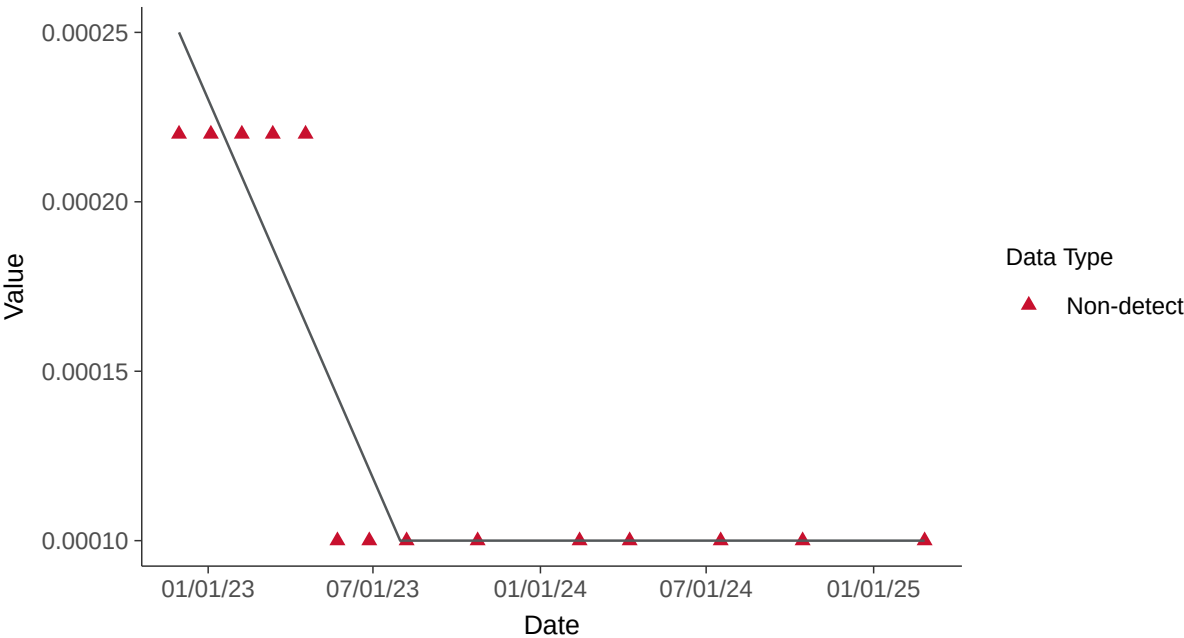
Trend Regression: Piecewise Linear-Linear

Lead, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

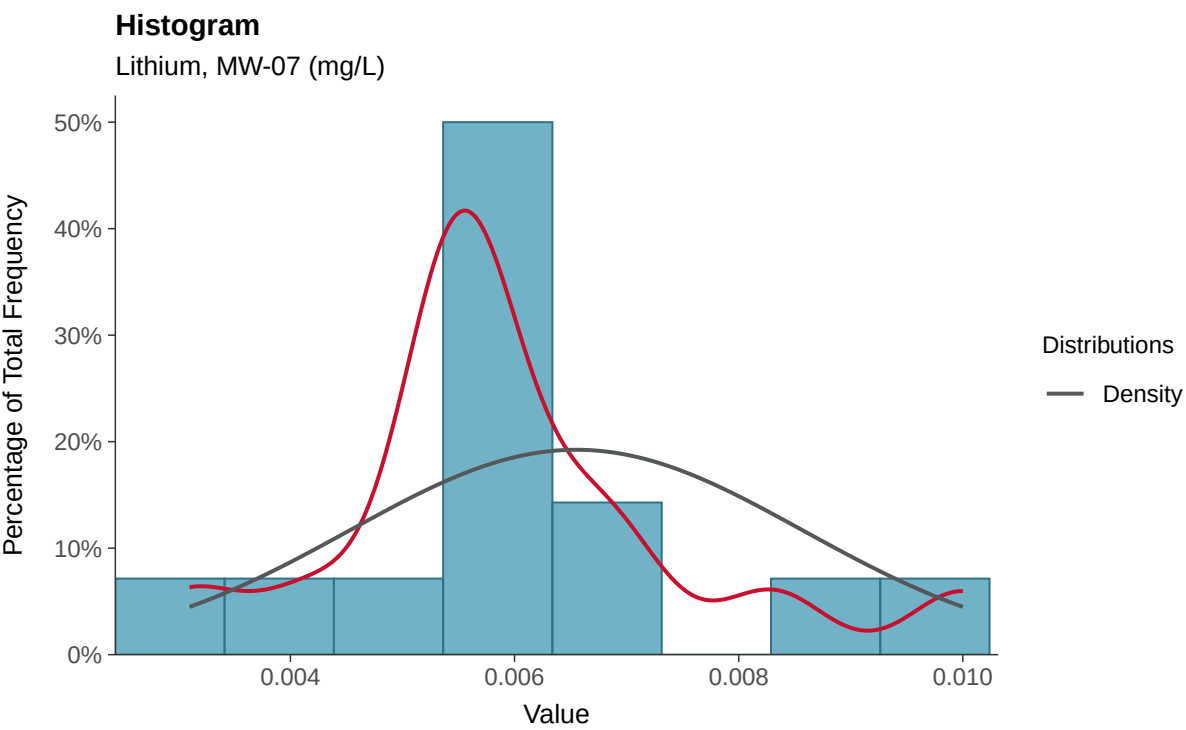
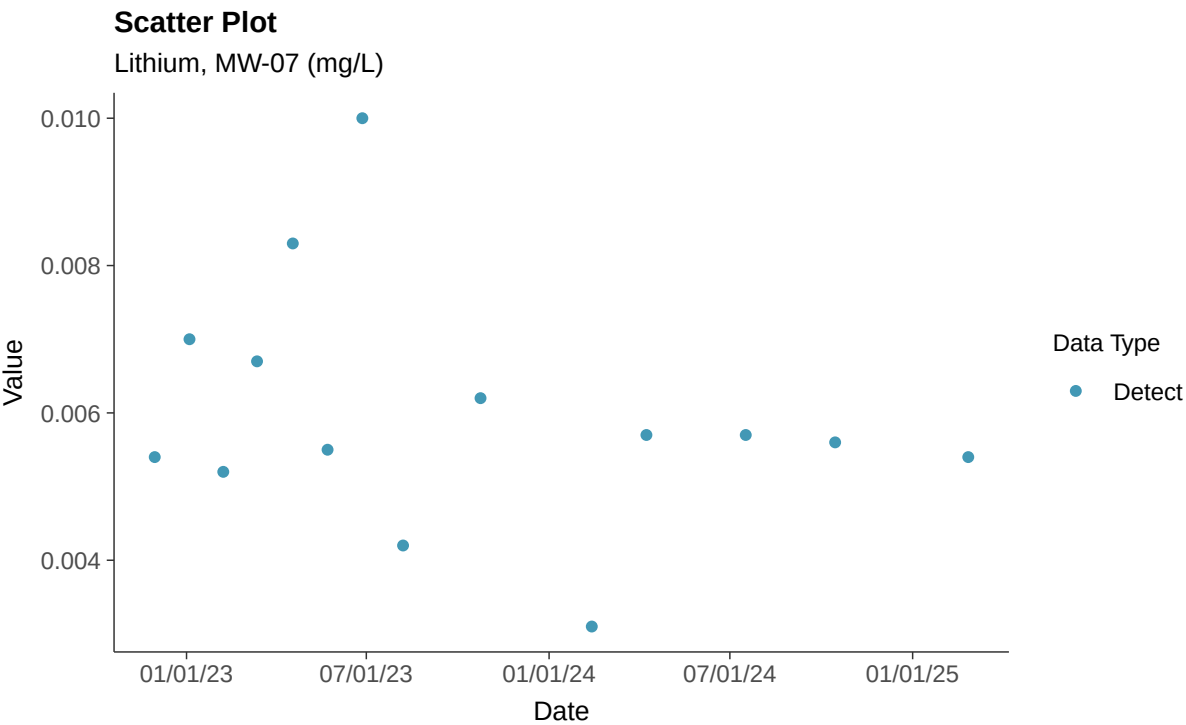
Lead, MW-07 (mg/L)

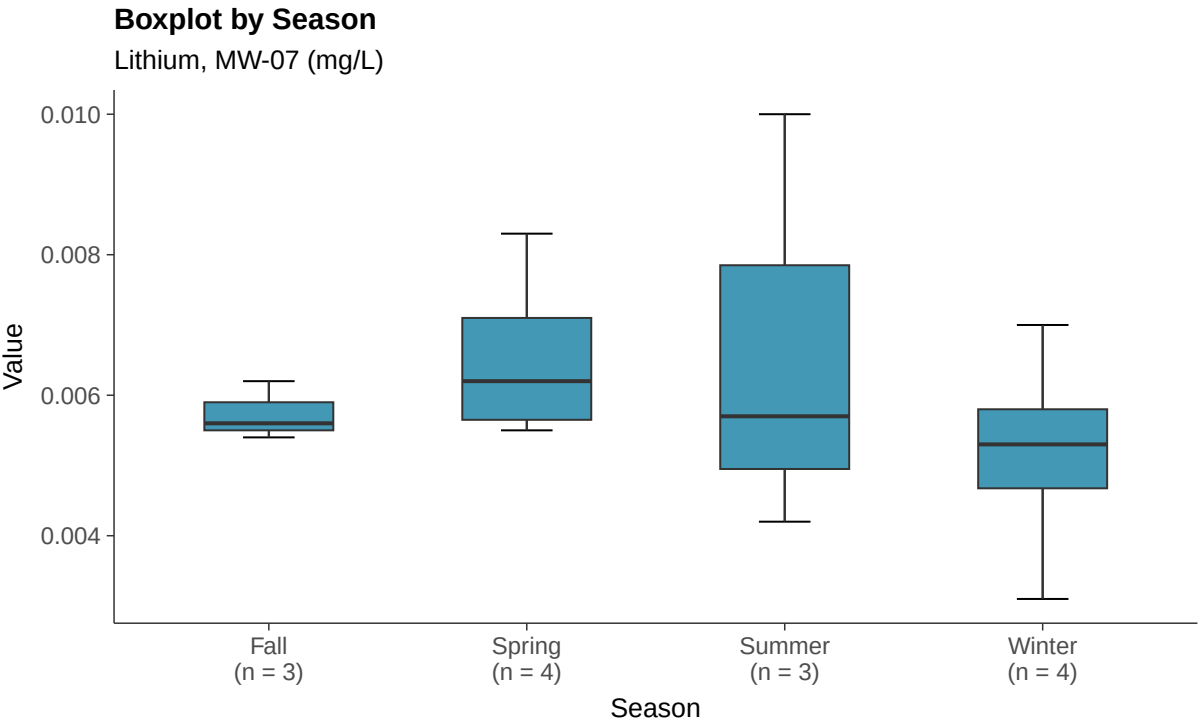
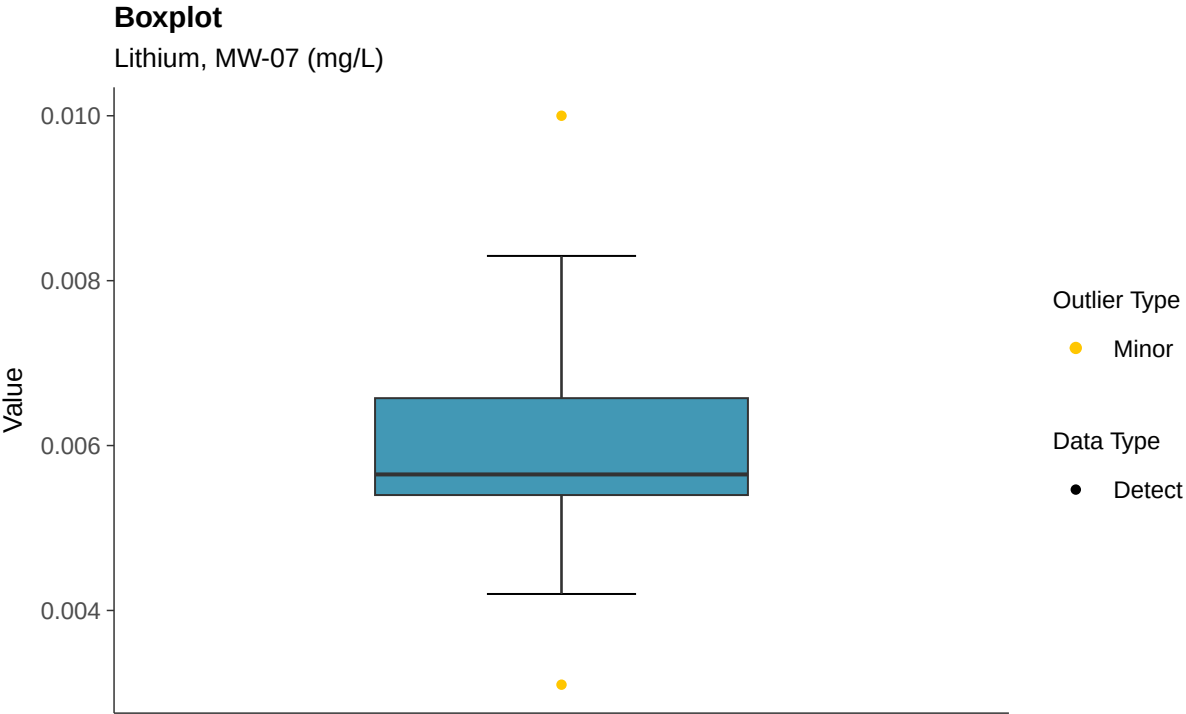


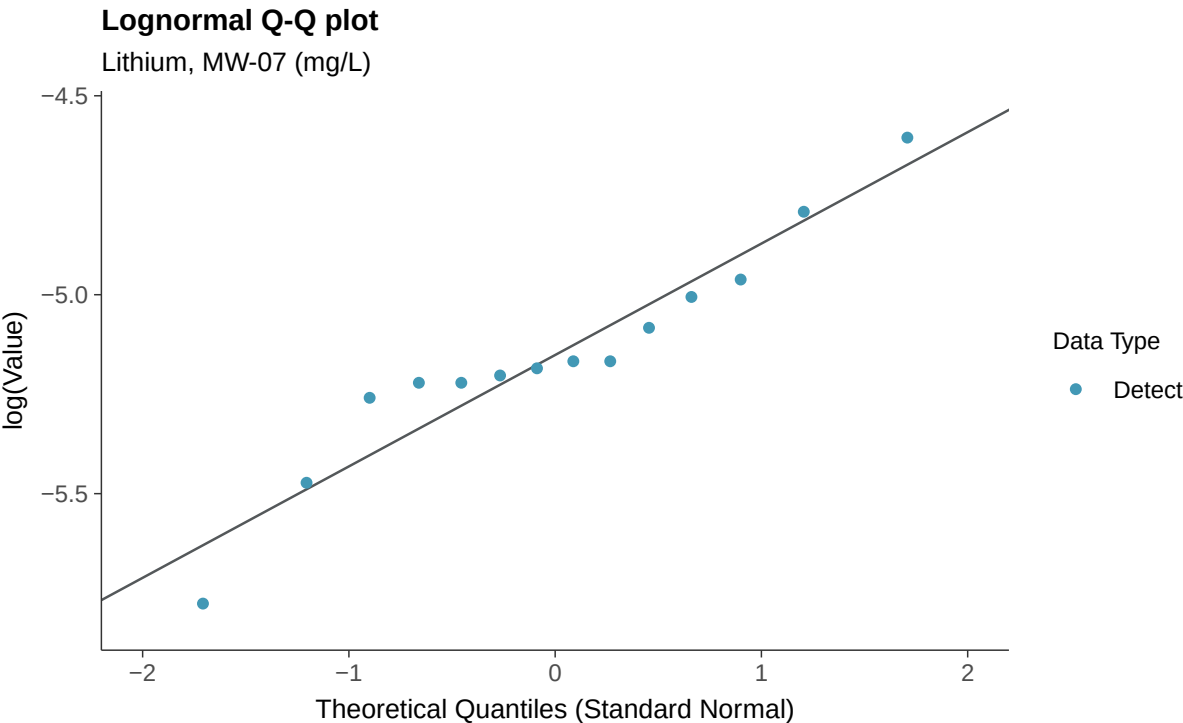
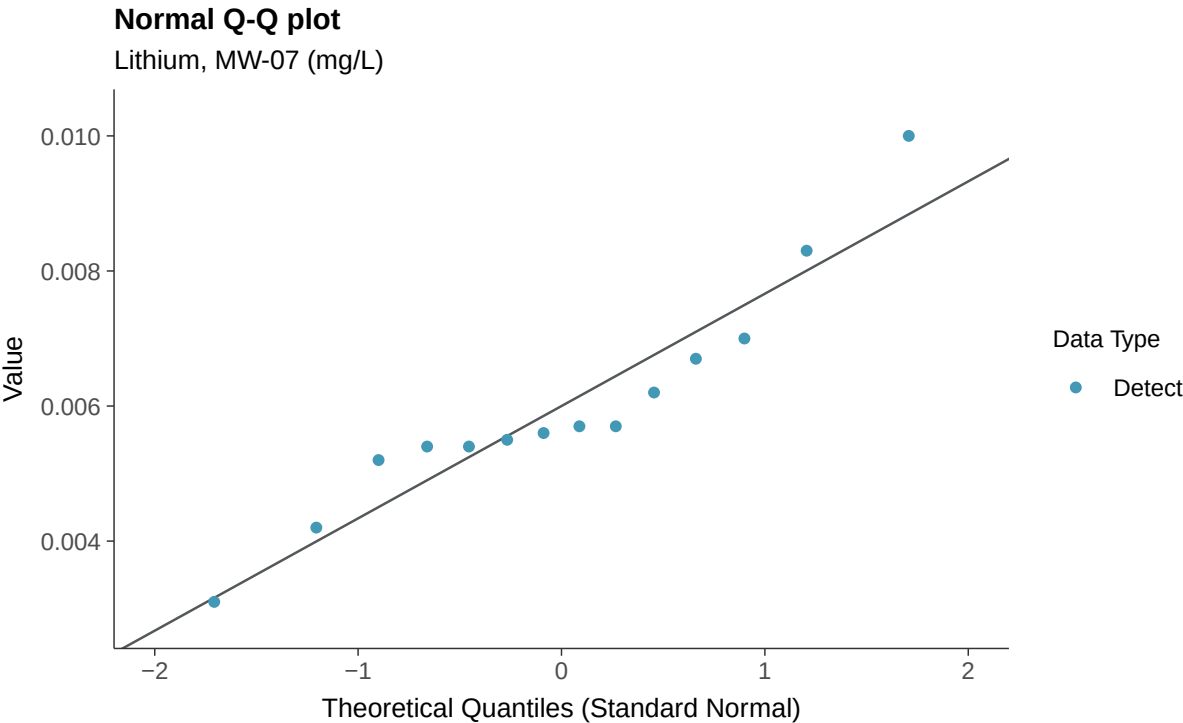


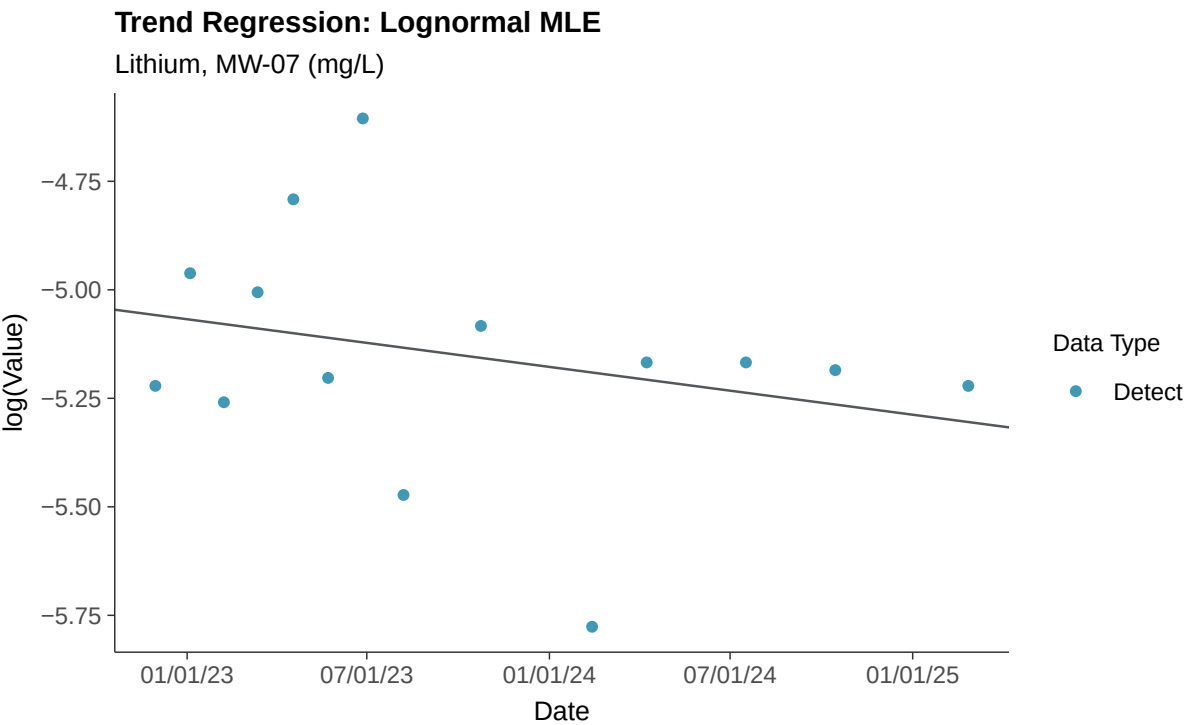
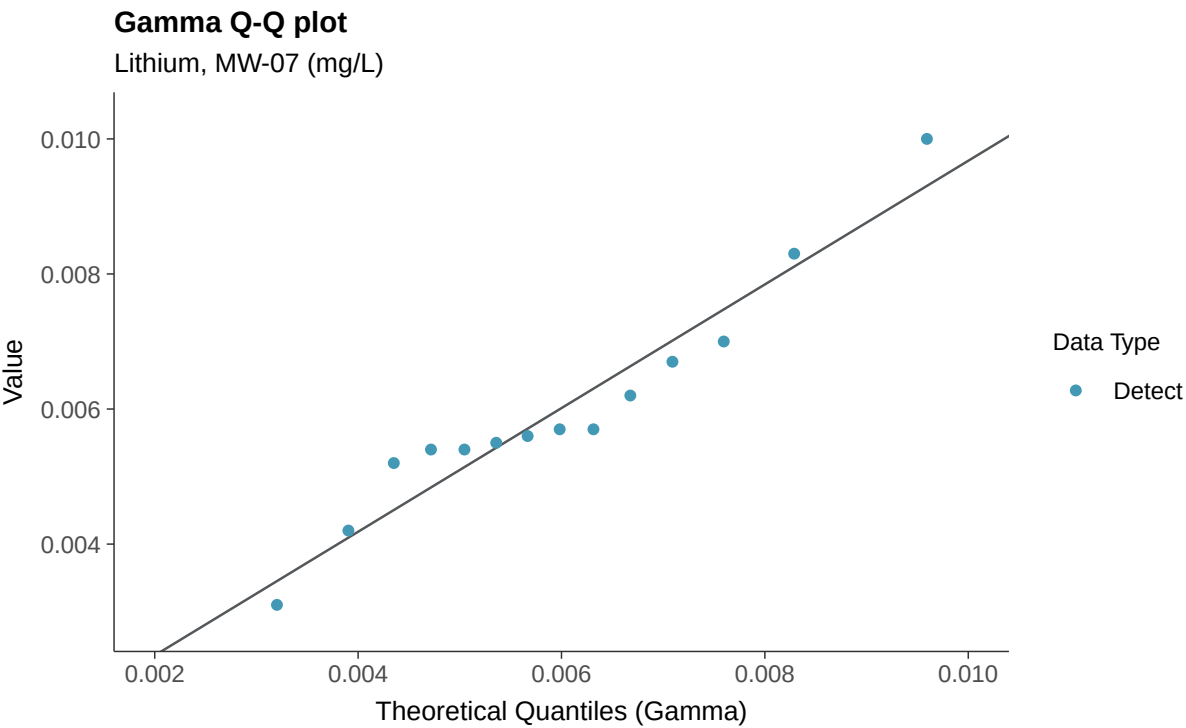
Appendix IV: Lithium, MW-07

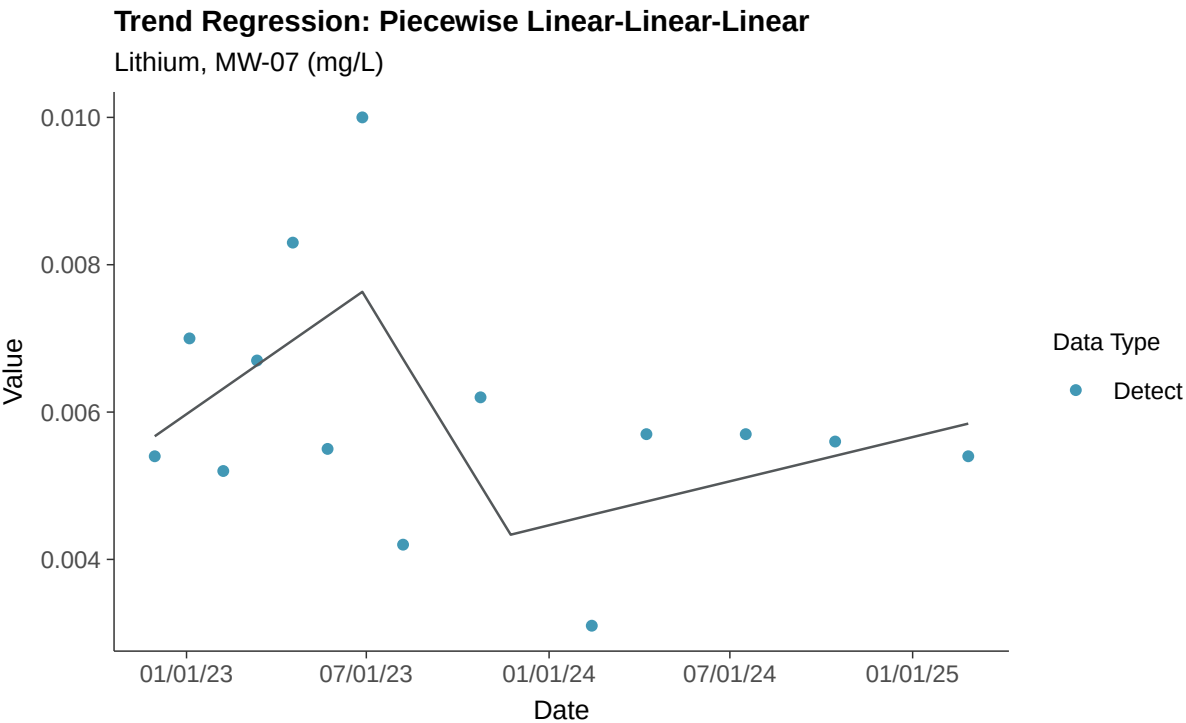
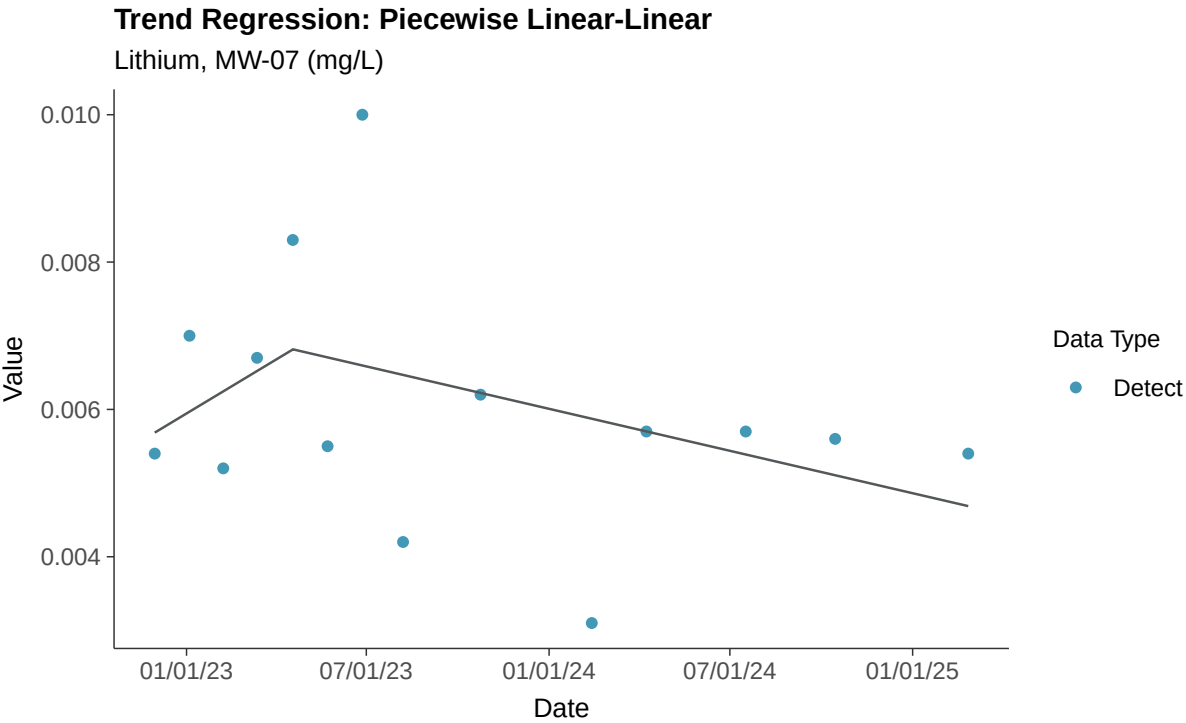
ID: 17_1_4_116







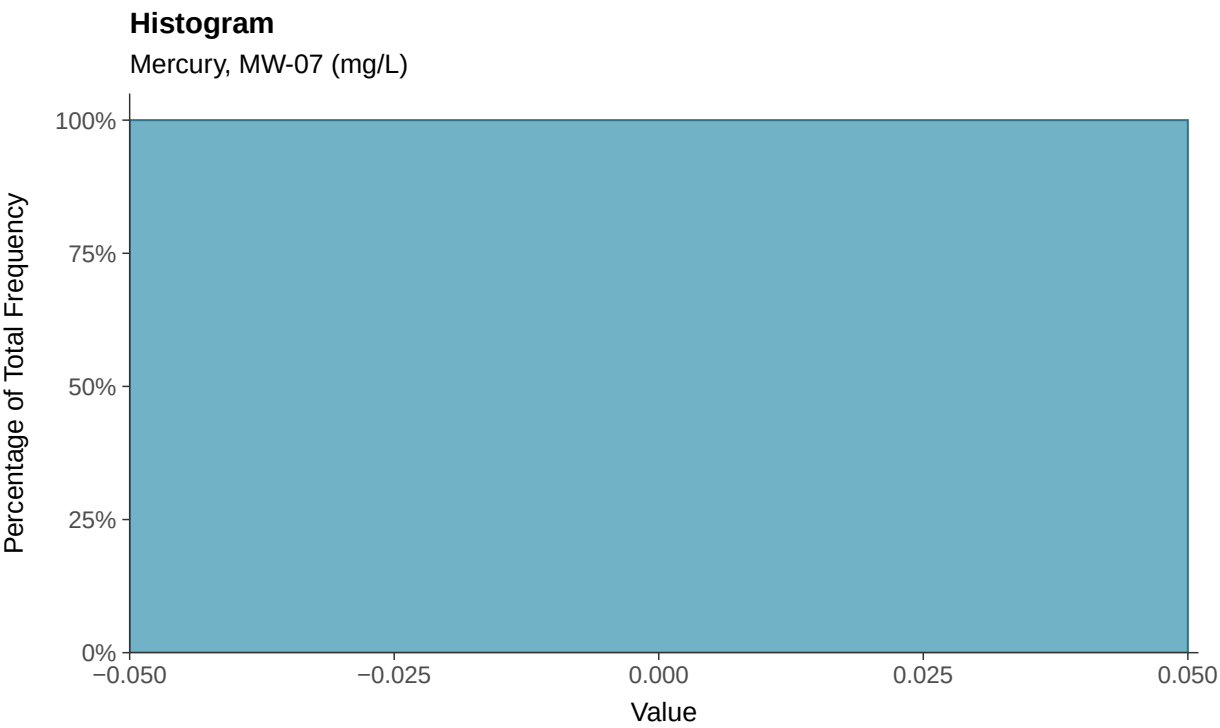
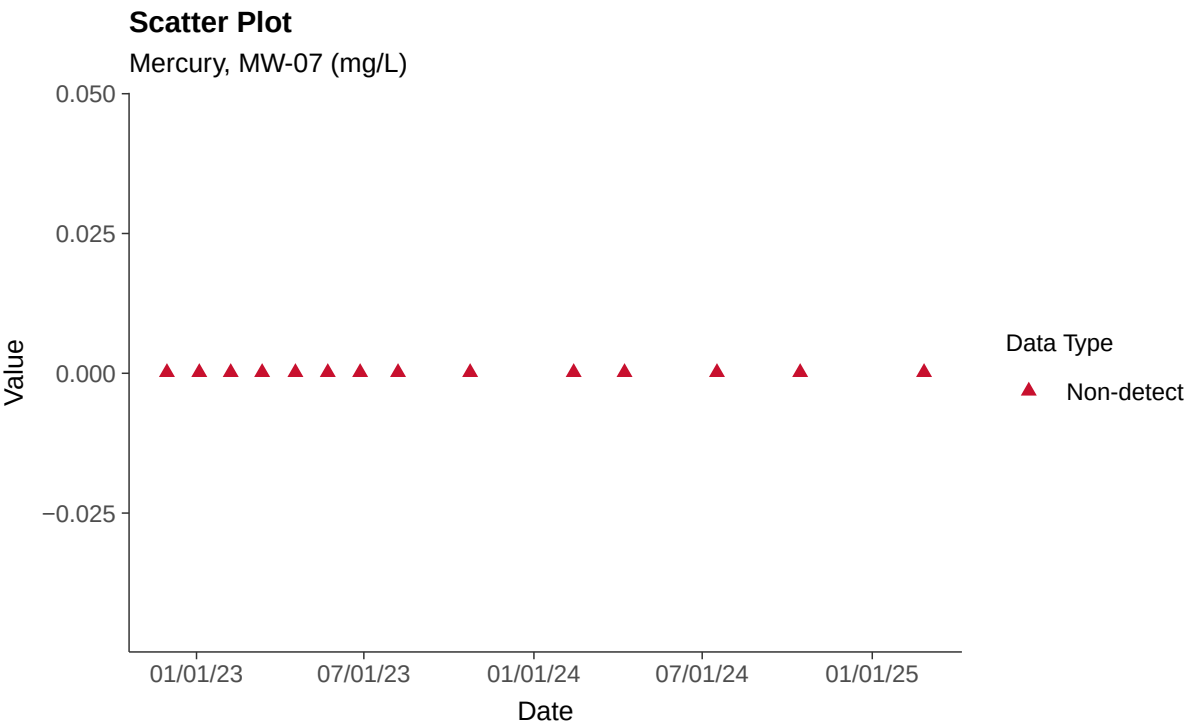


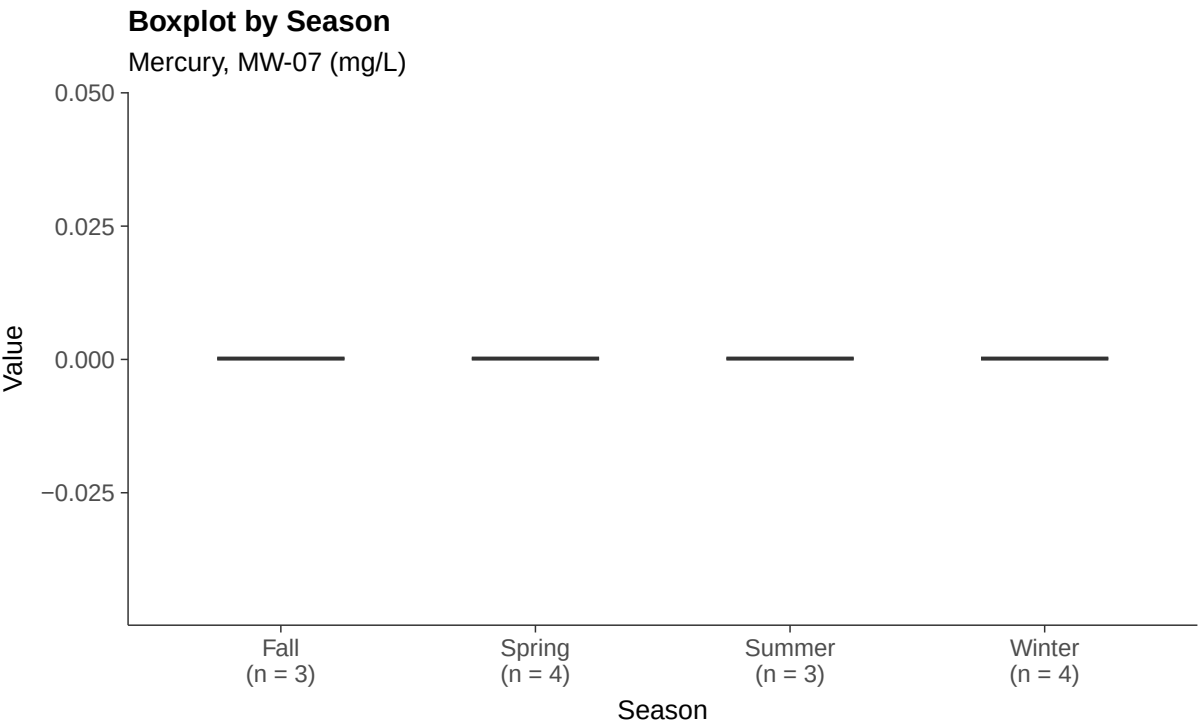
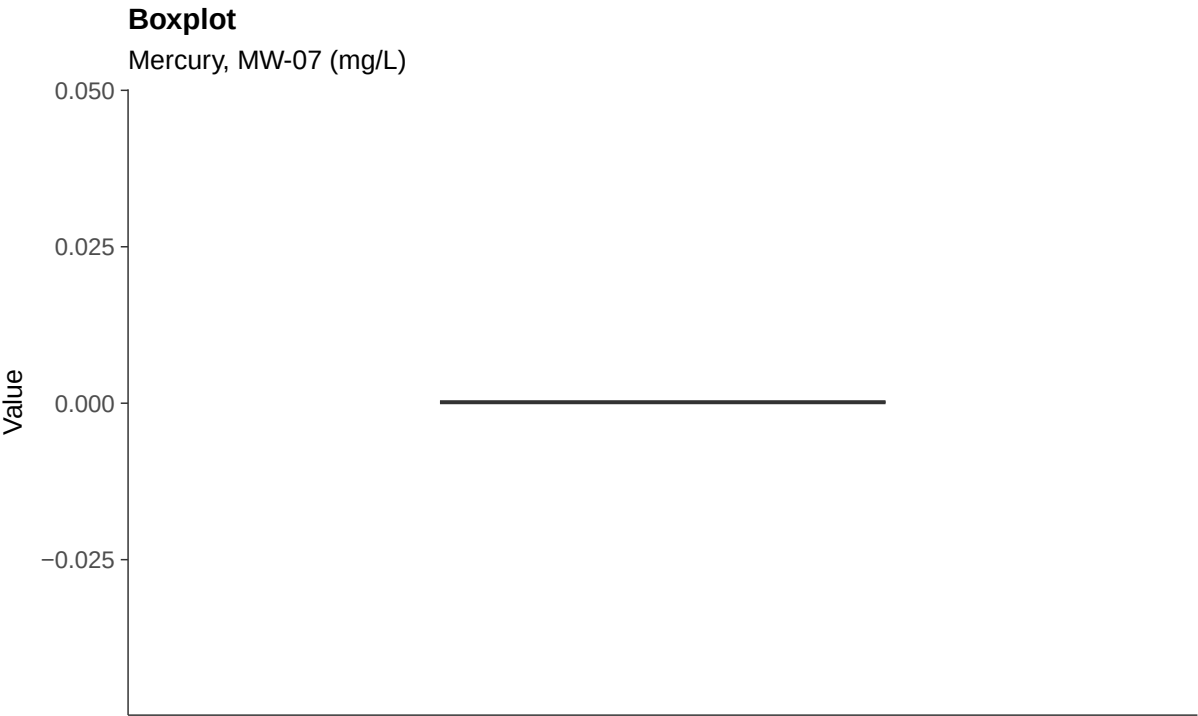




Appendix IV: Mercury, MW-07

ID: 17_1_4_117

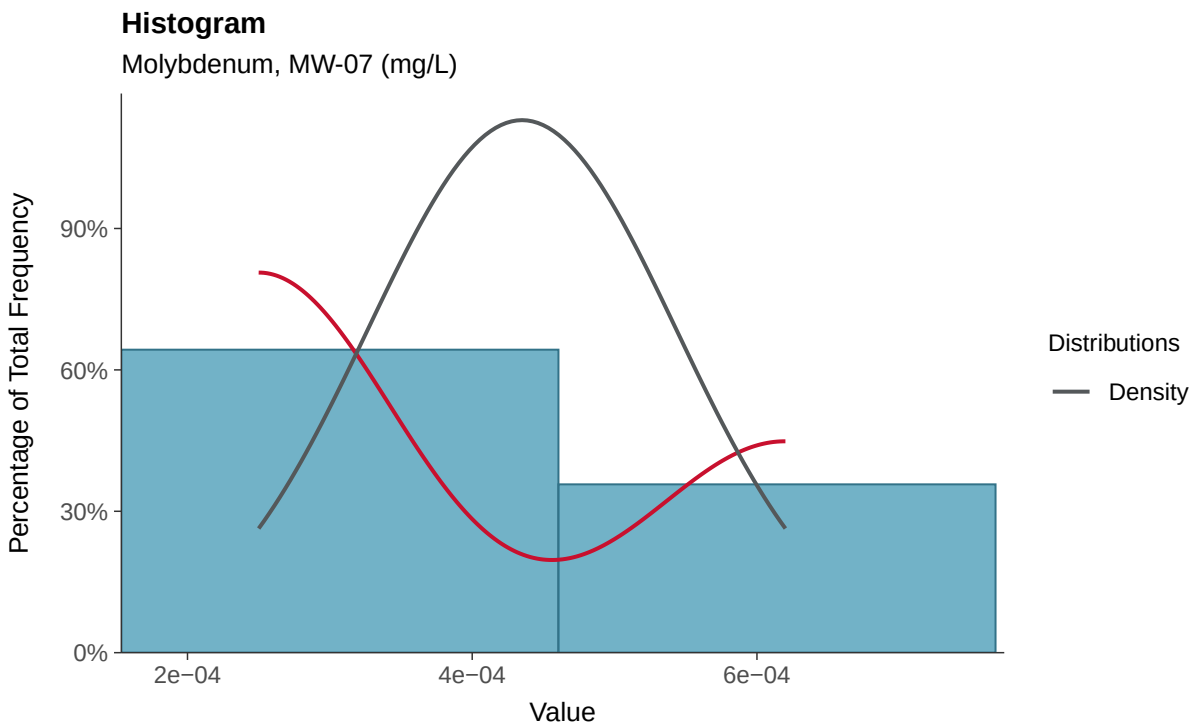
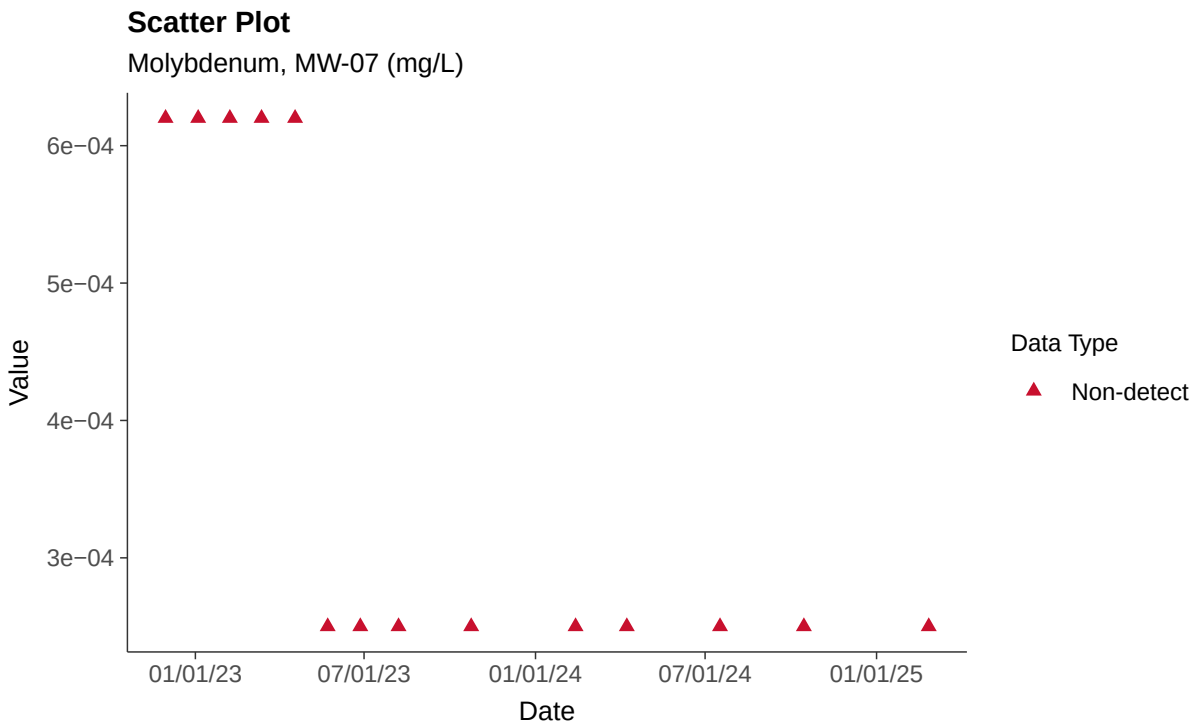


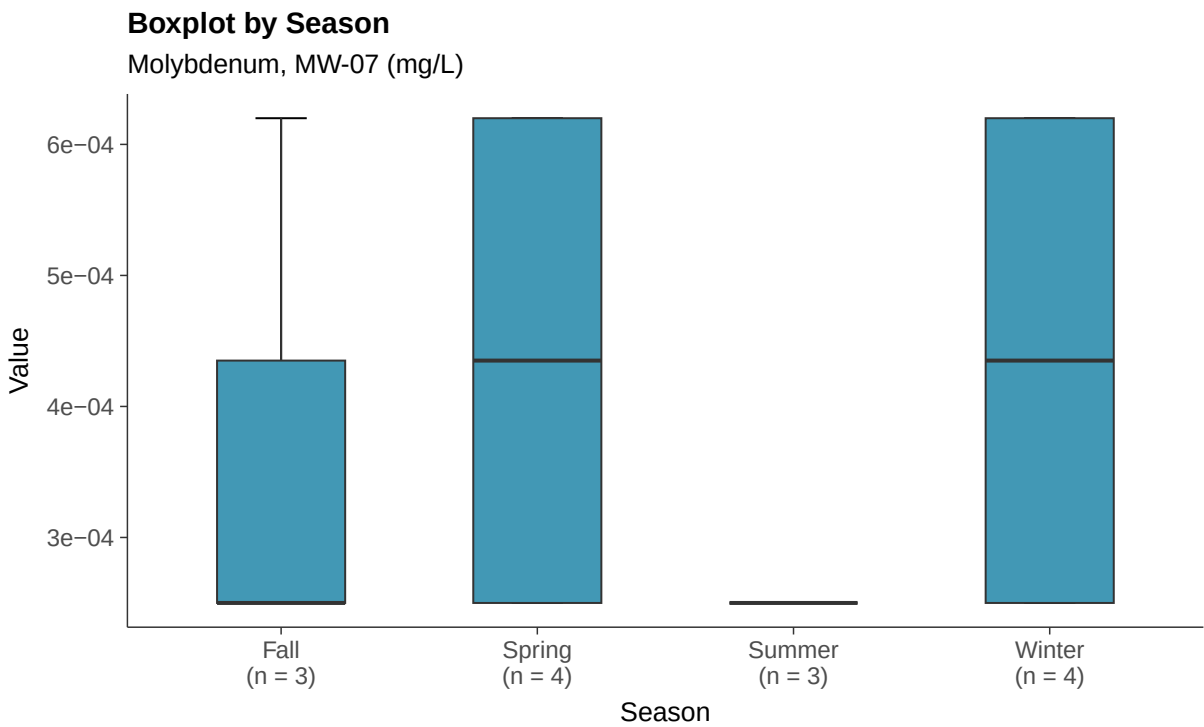
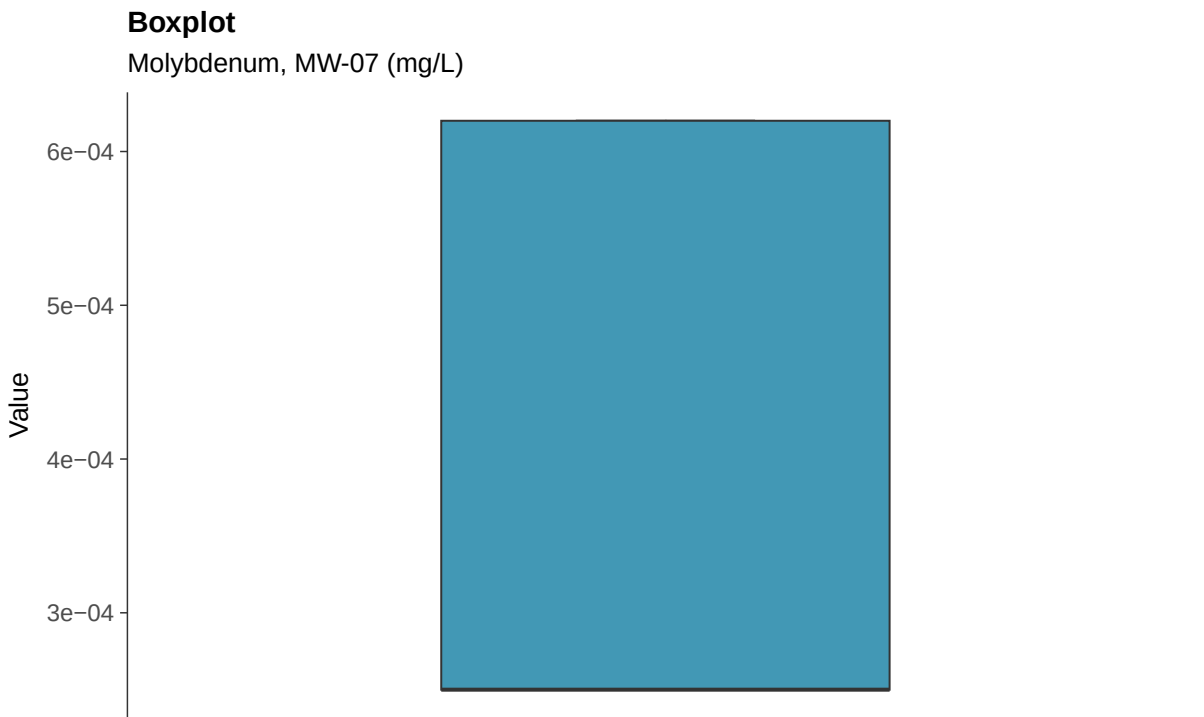


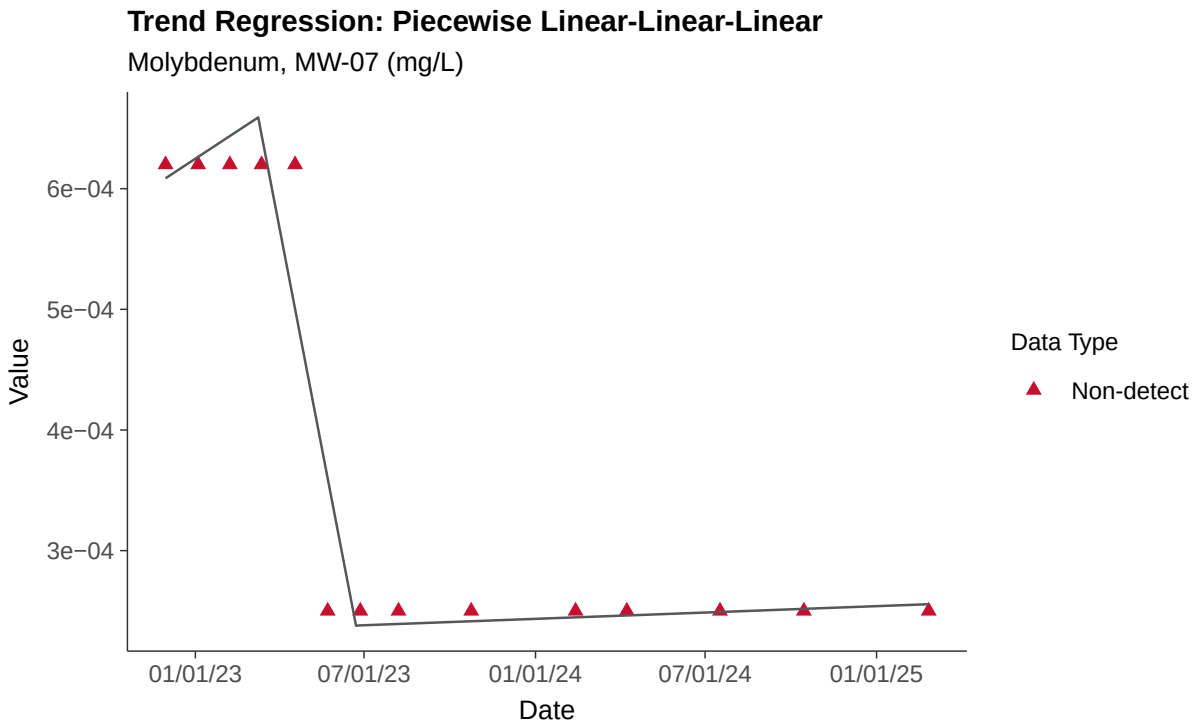
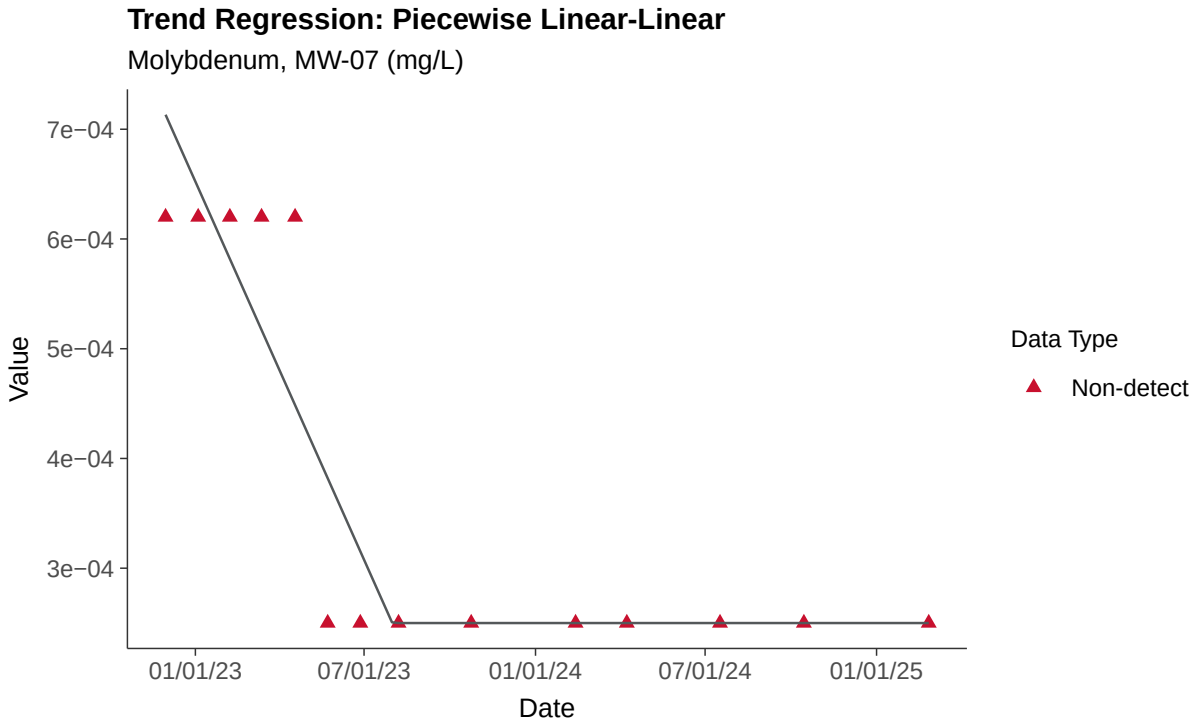


Appendix IV: Molybdenum, MW-07

ID: 17_1_4_118



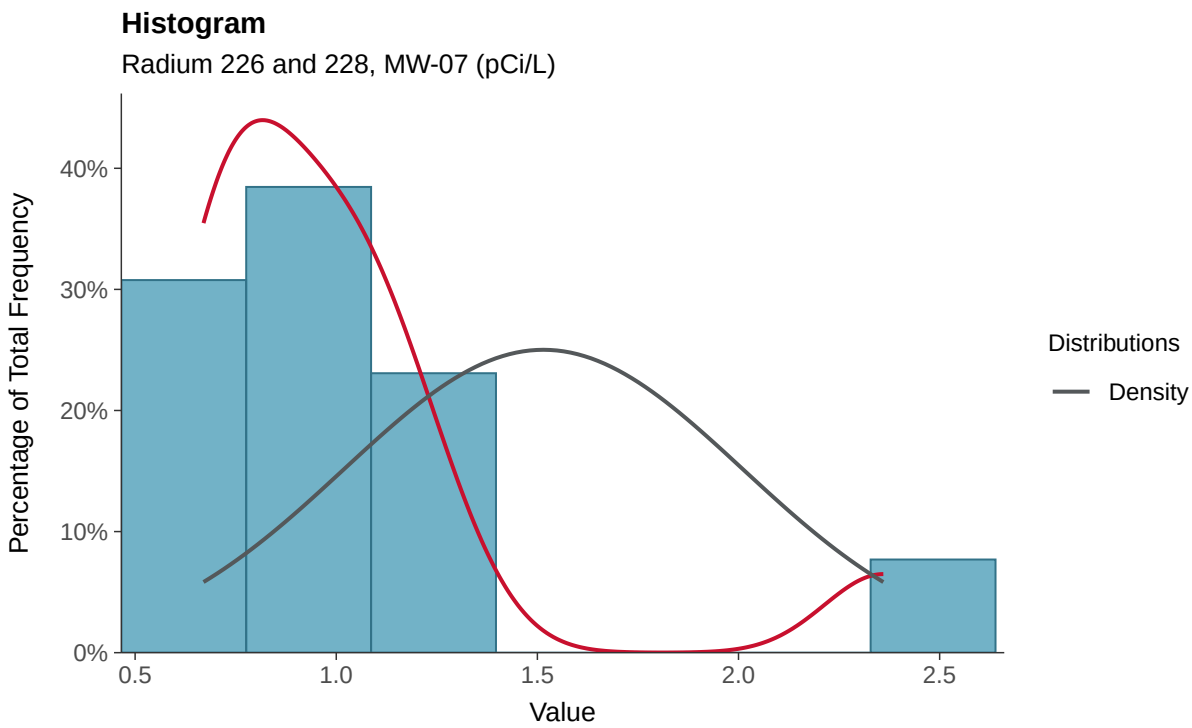
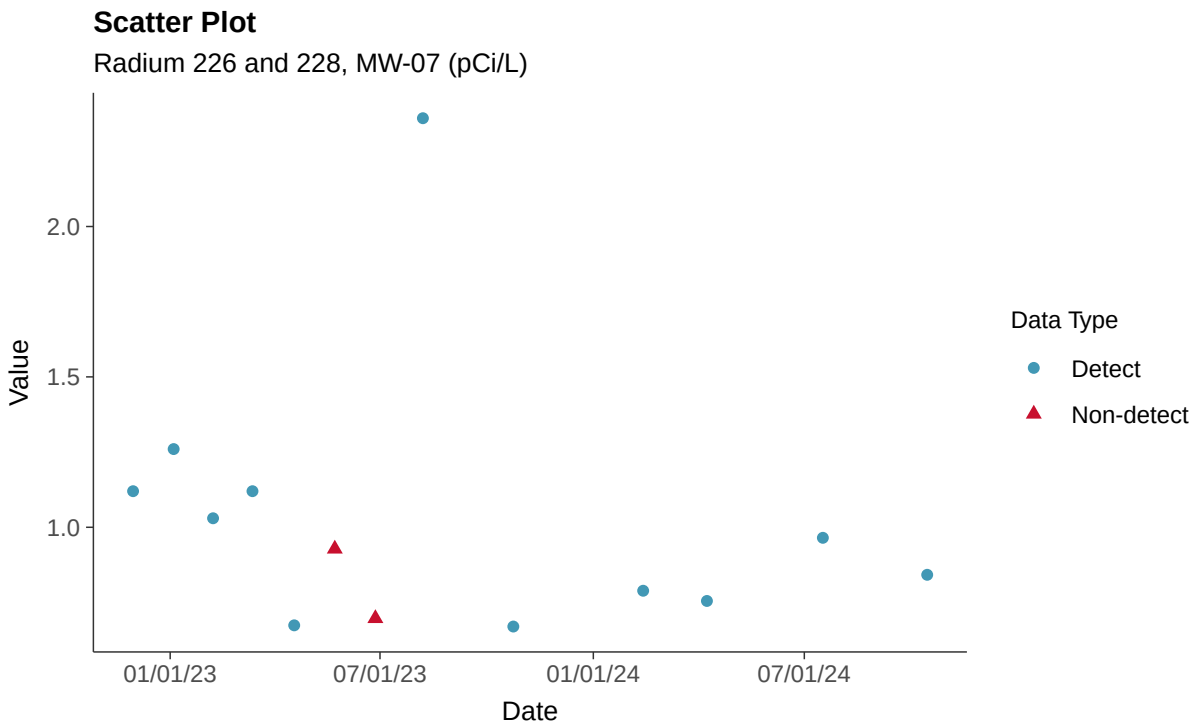






Appendix IV: Radium 226 and 228, MW-07

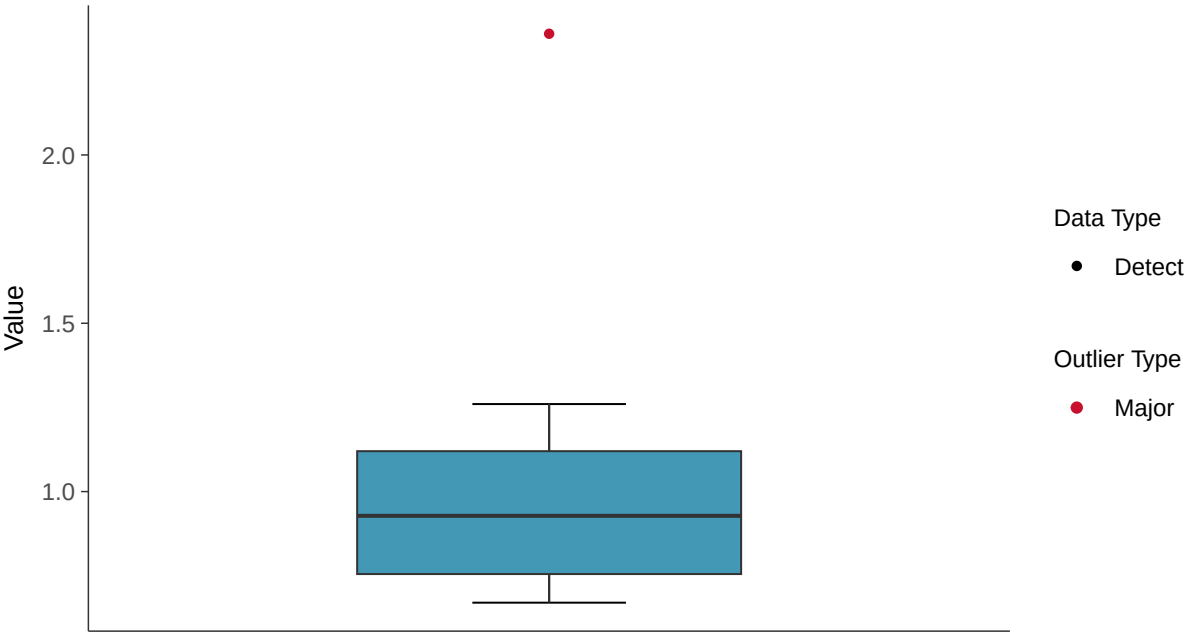
ID: 17_1_4_121





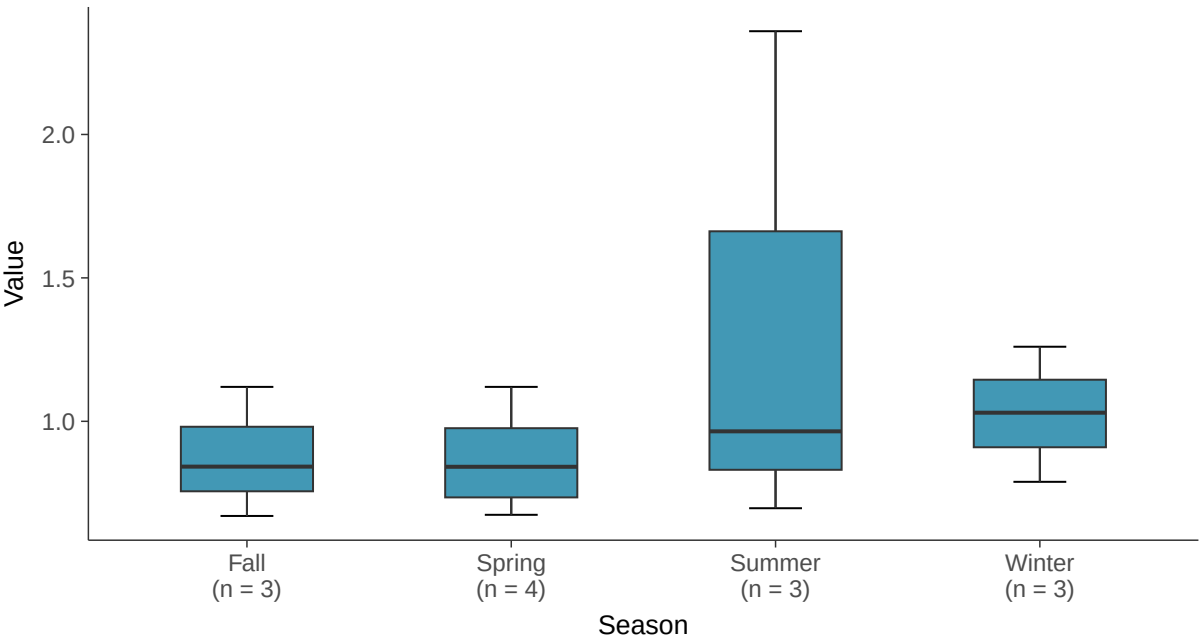
Boxplot

Radium 226 and 228, MW-07 (pCi/L)



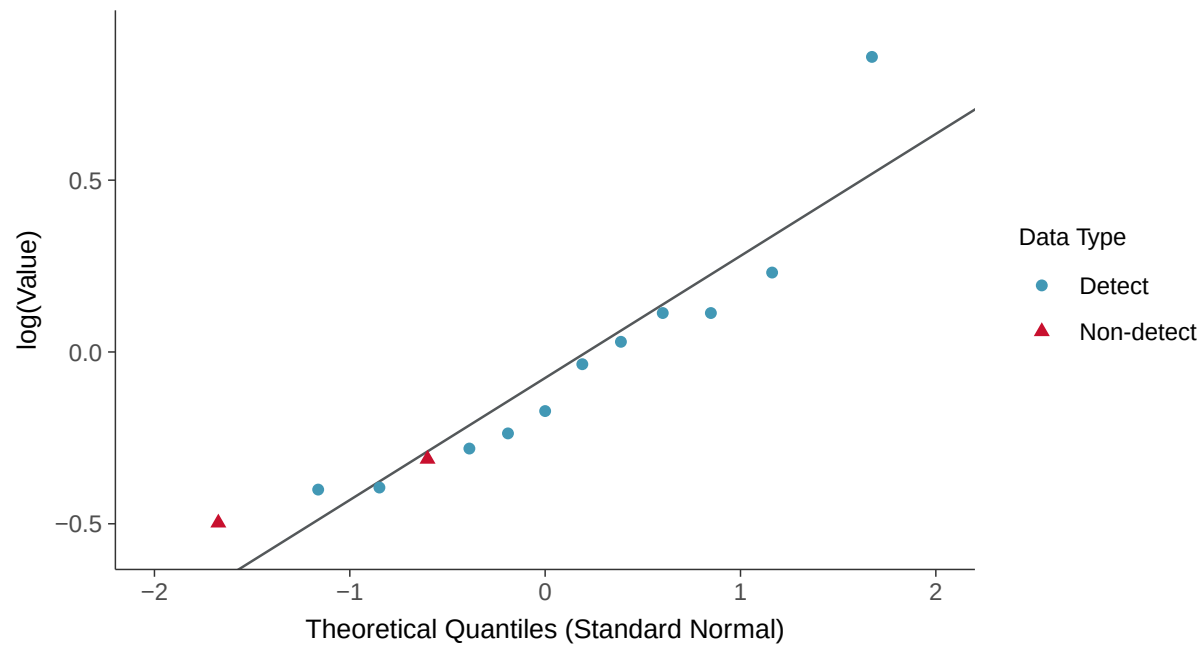
Boxplot by Season

Radium 226 and 228, MW-07 (pCi/L)

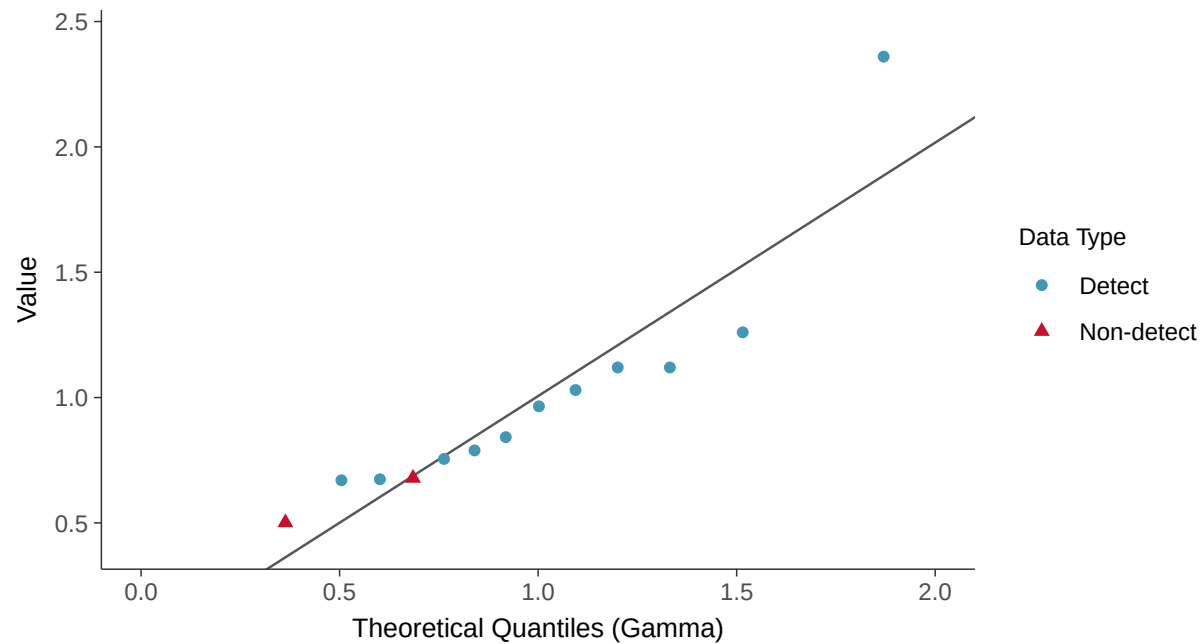




Lognormal Q-Q plot using ROS Imputed Estimates
Radium 226 and 228, MW-07 (pCi/L)



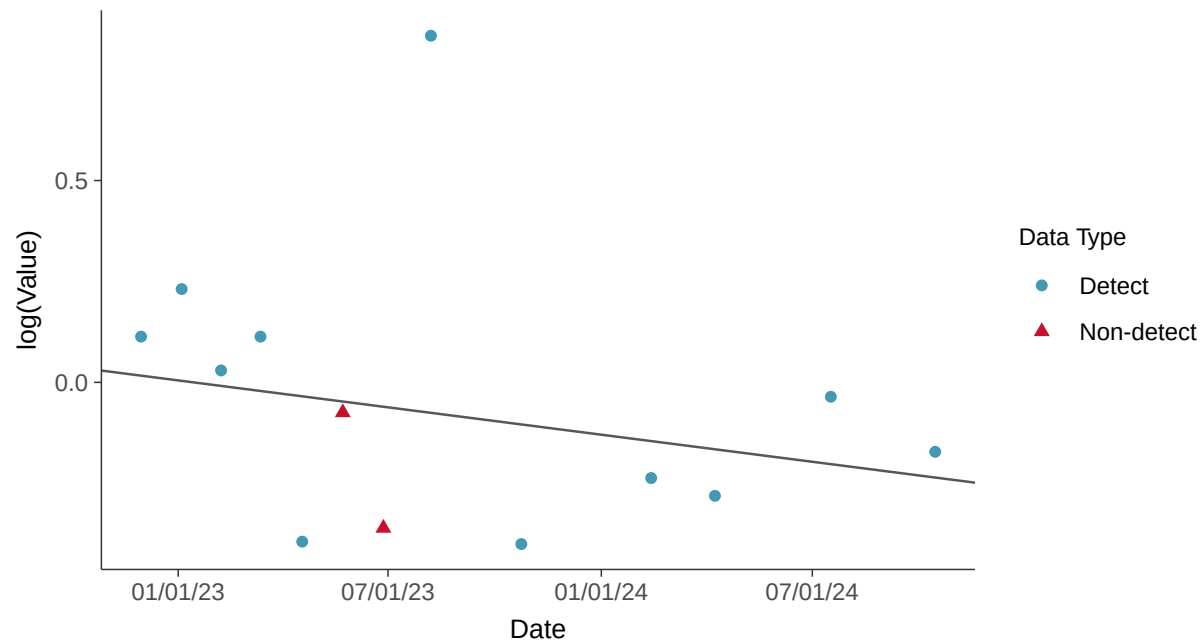
Gamma Q-Q plot using ROS Imputed Estimates
Radium 226 and 228, MW-07 (pCi/L)





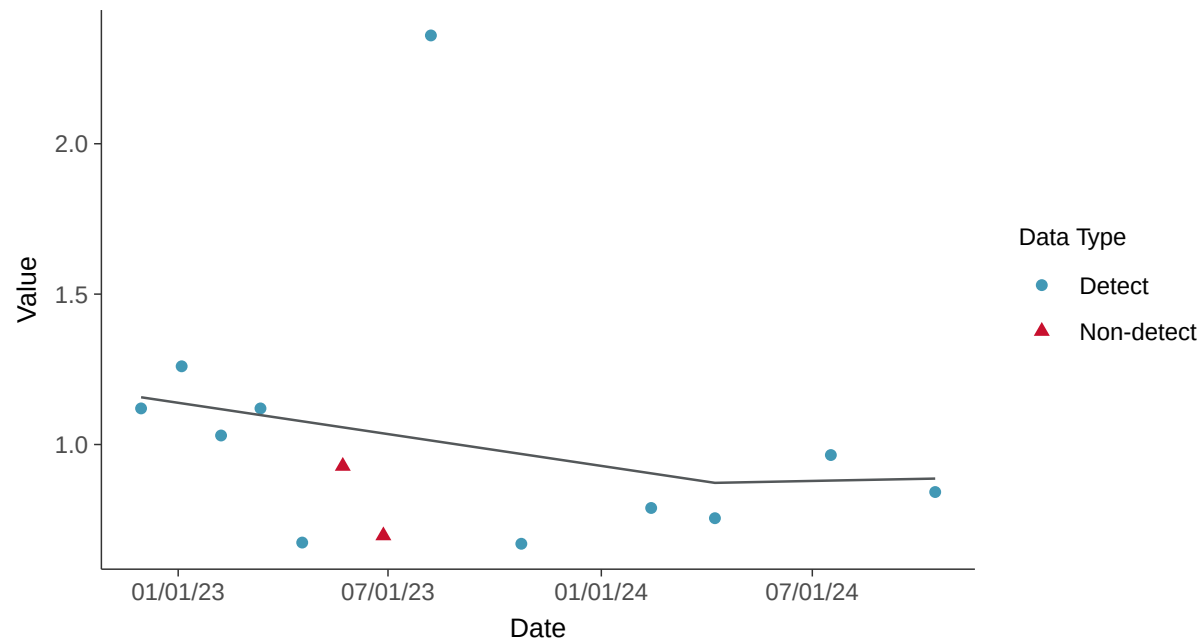
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-07 (pCi/L)



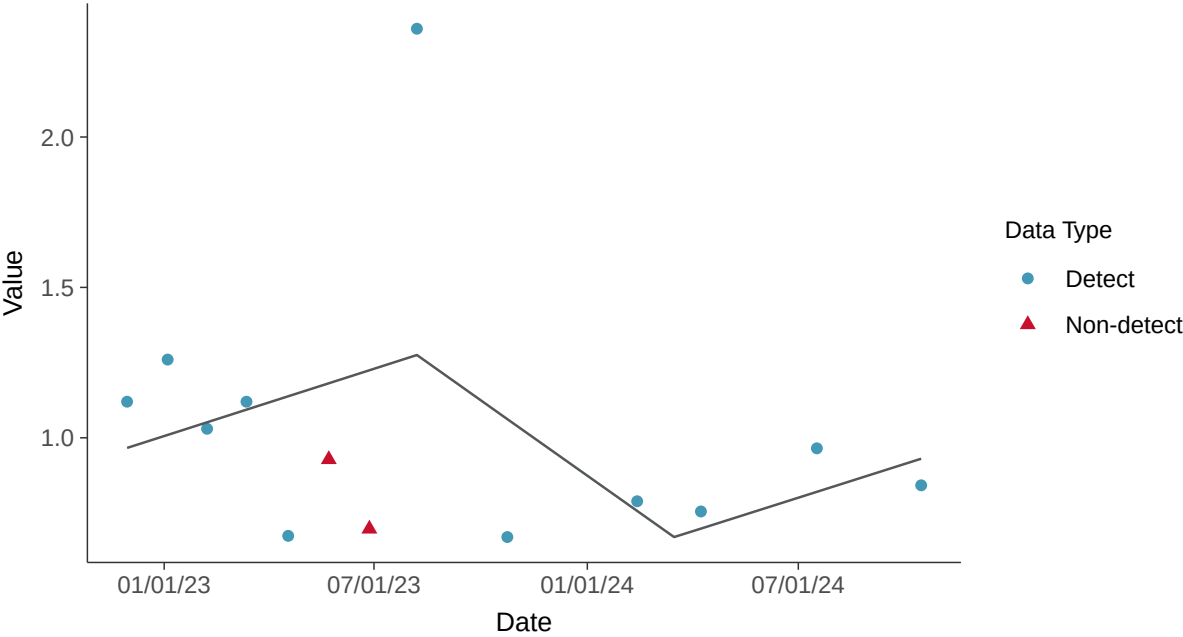
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-07 (pCi/L)





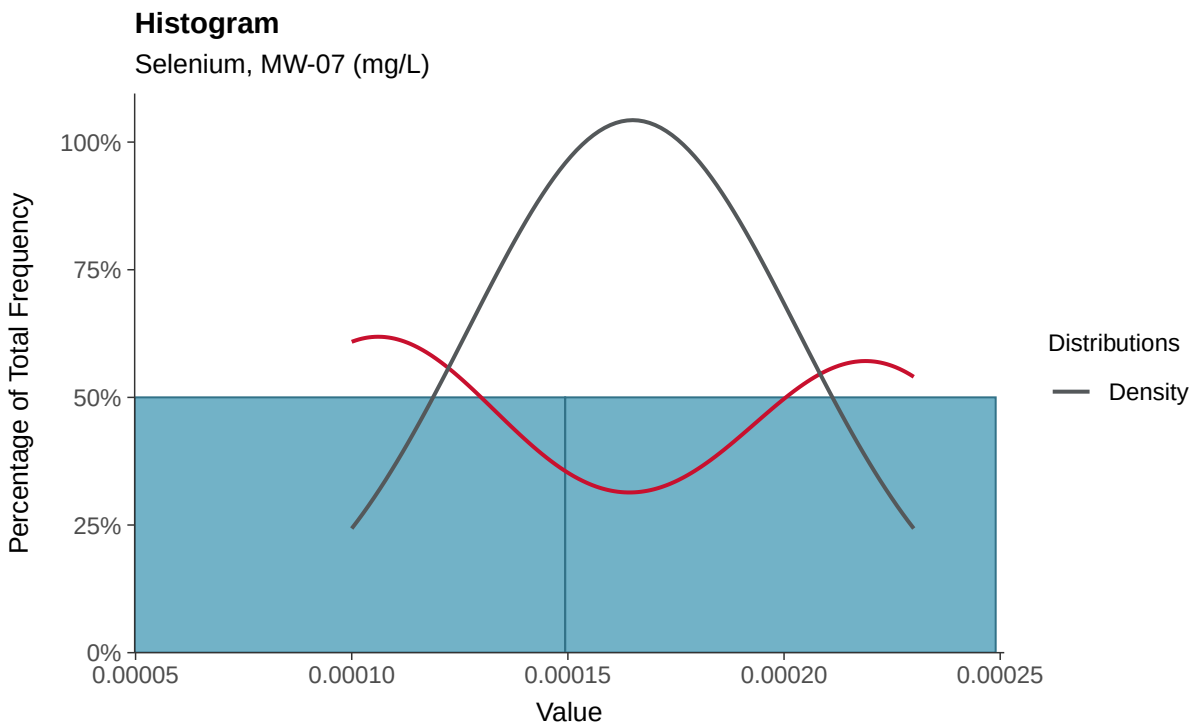
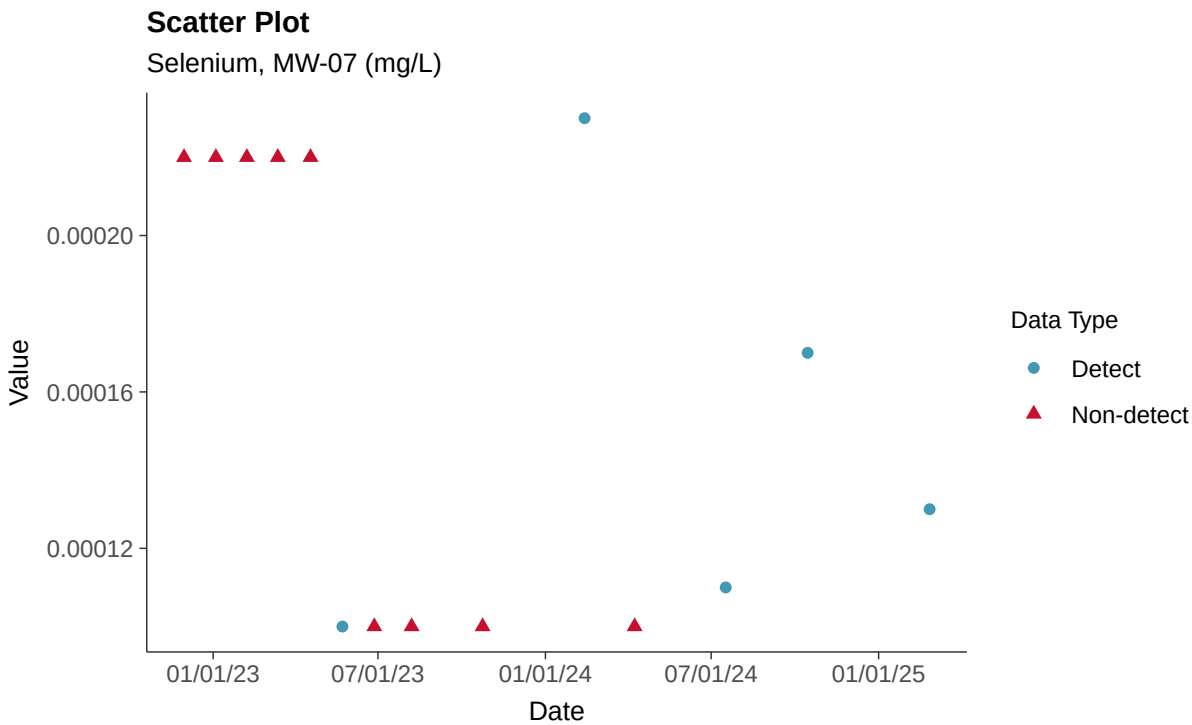
Trend Regression: Piecewise Linear-Linear-Linear
Radium 226 and 228, MW-07 (pCi/L)

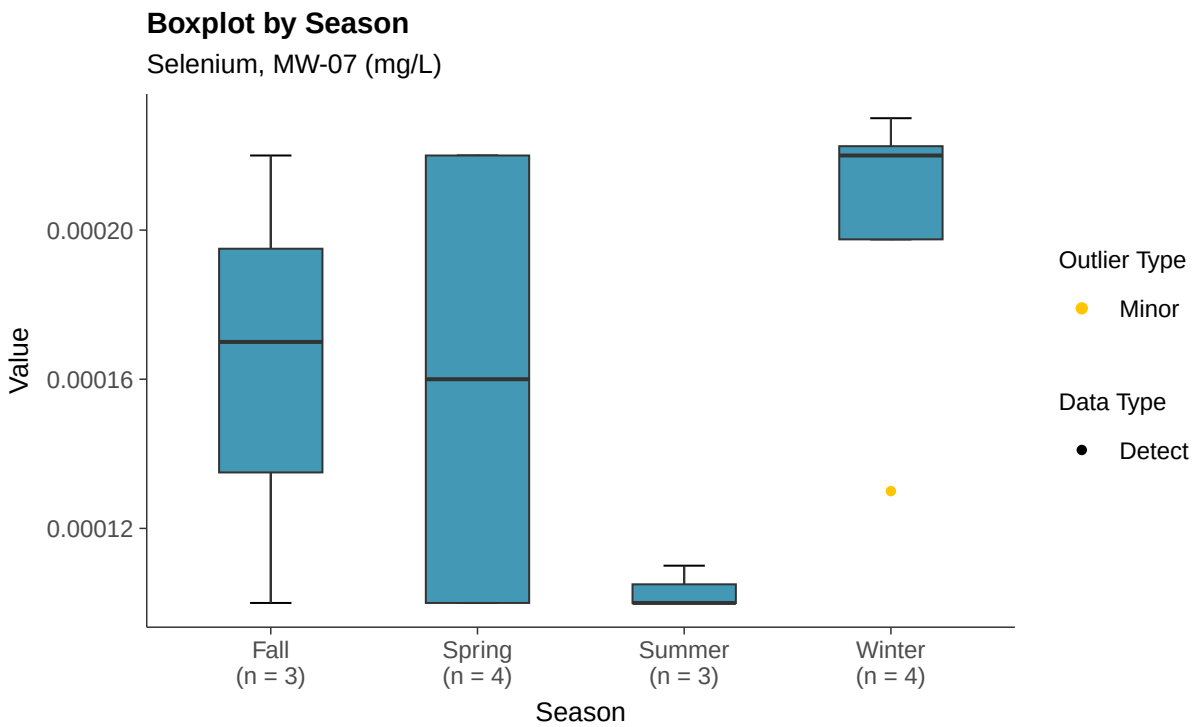




Appendix IV: Selenium, MW-07

ID: 17_1_4_122

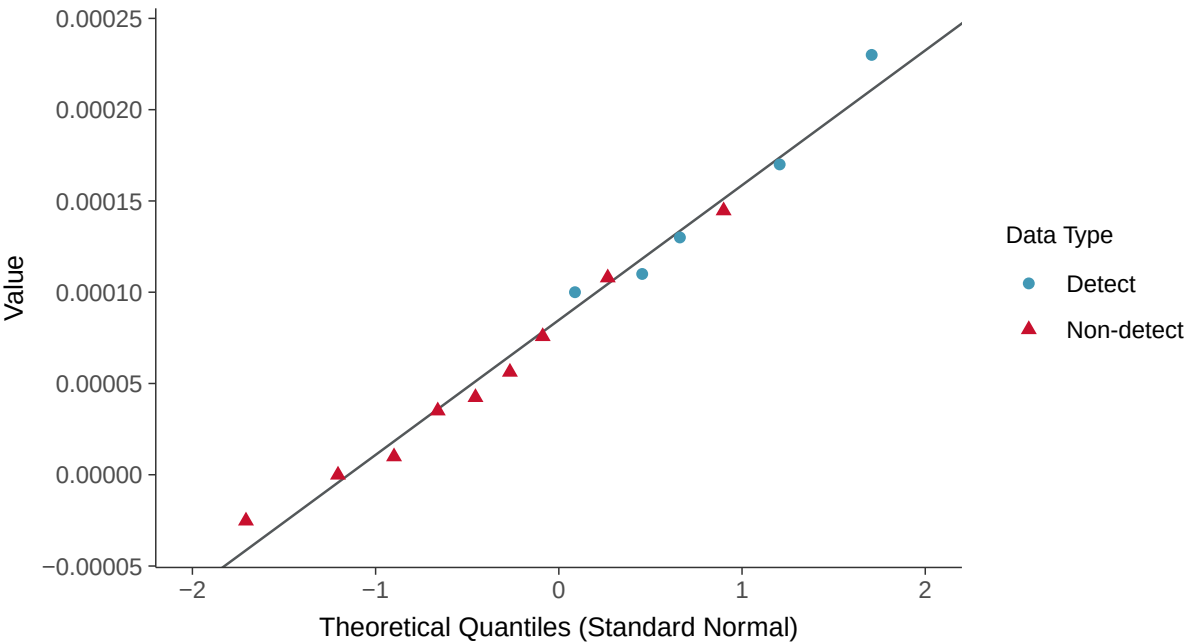






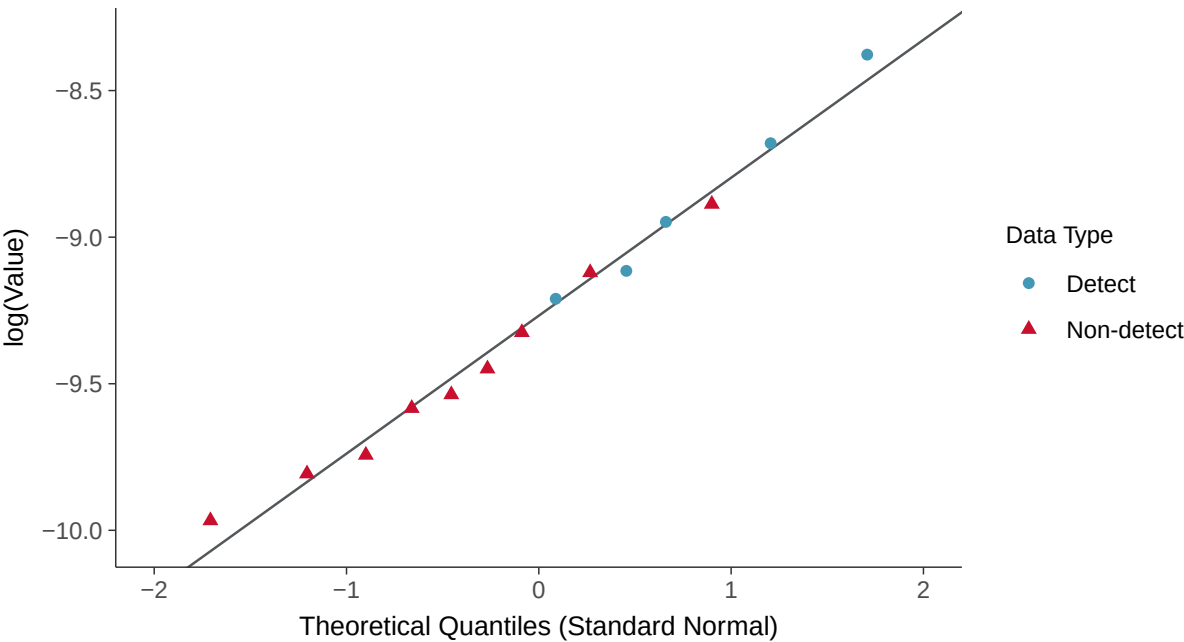
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-07 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

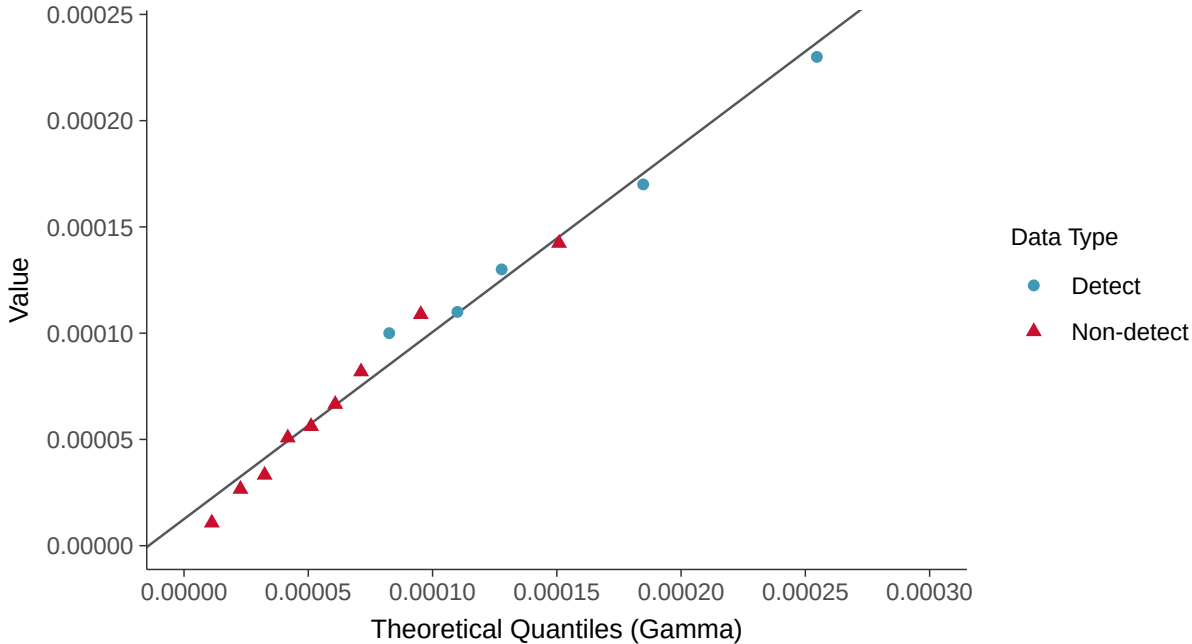
Selenium, MW-07 (mg/L)





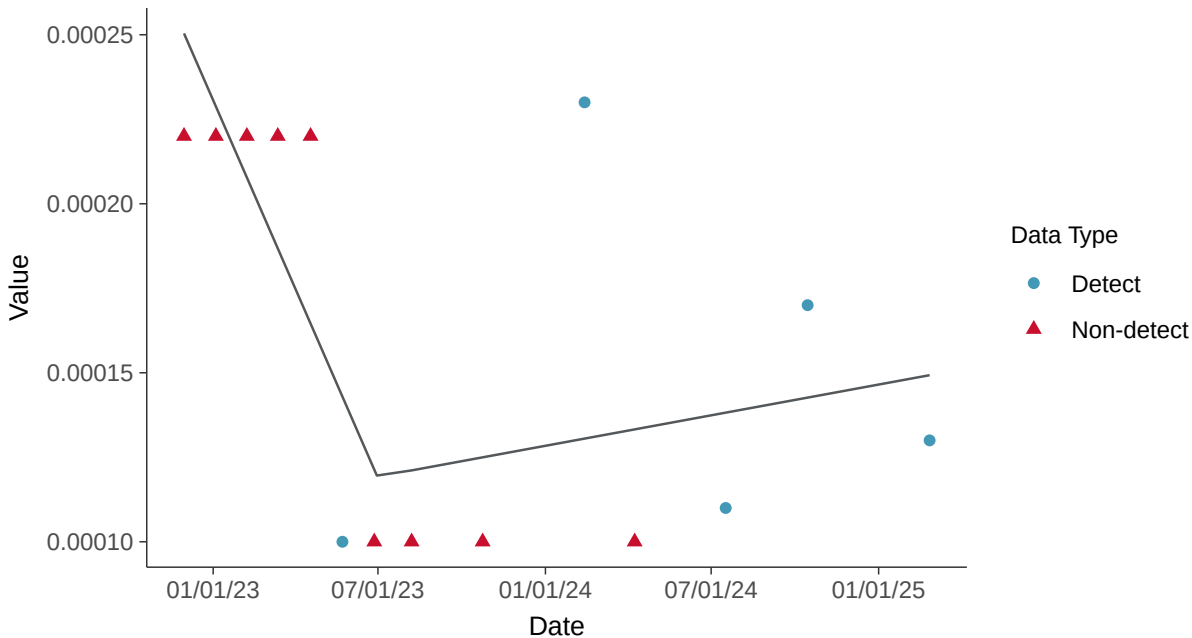
Gamma Q-Q plot using ROS Imputed Estimates

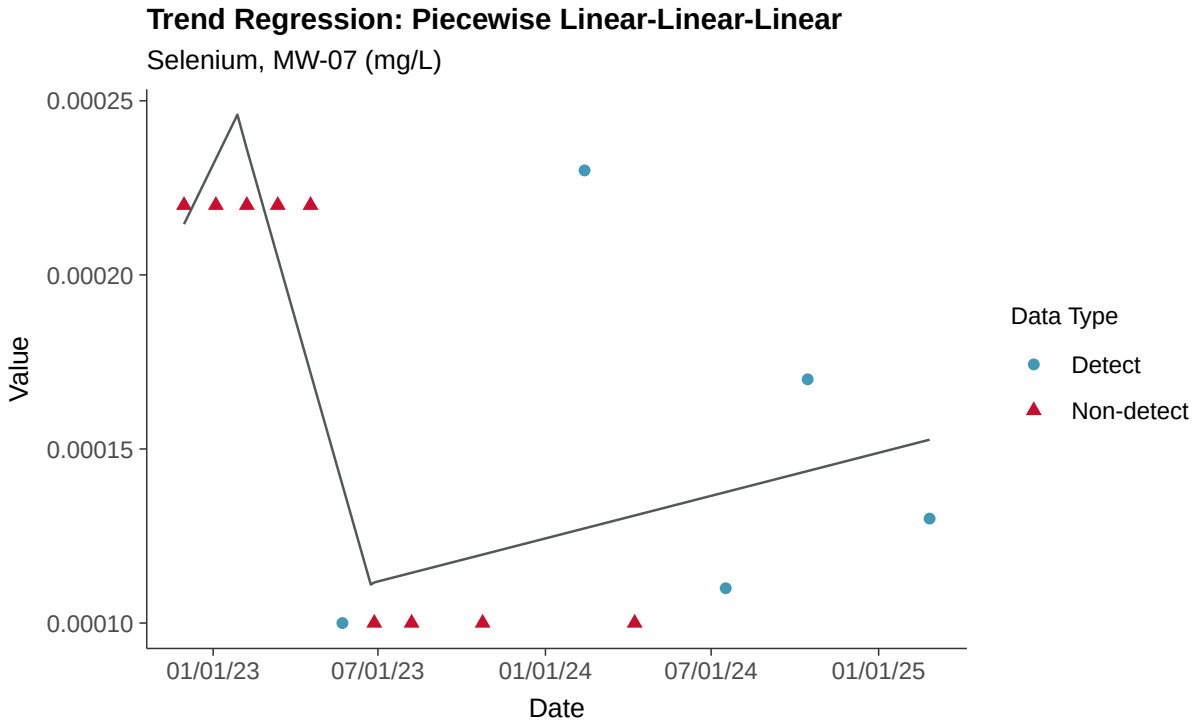
Selenium, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-07 (mg/L)

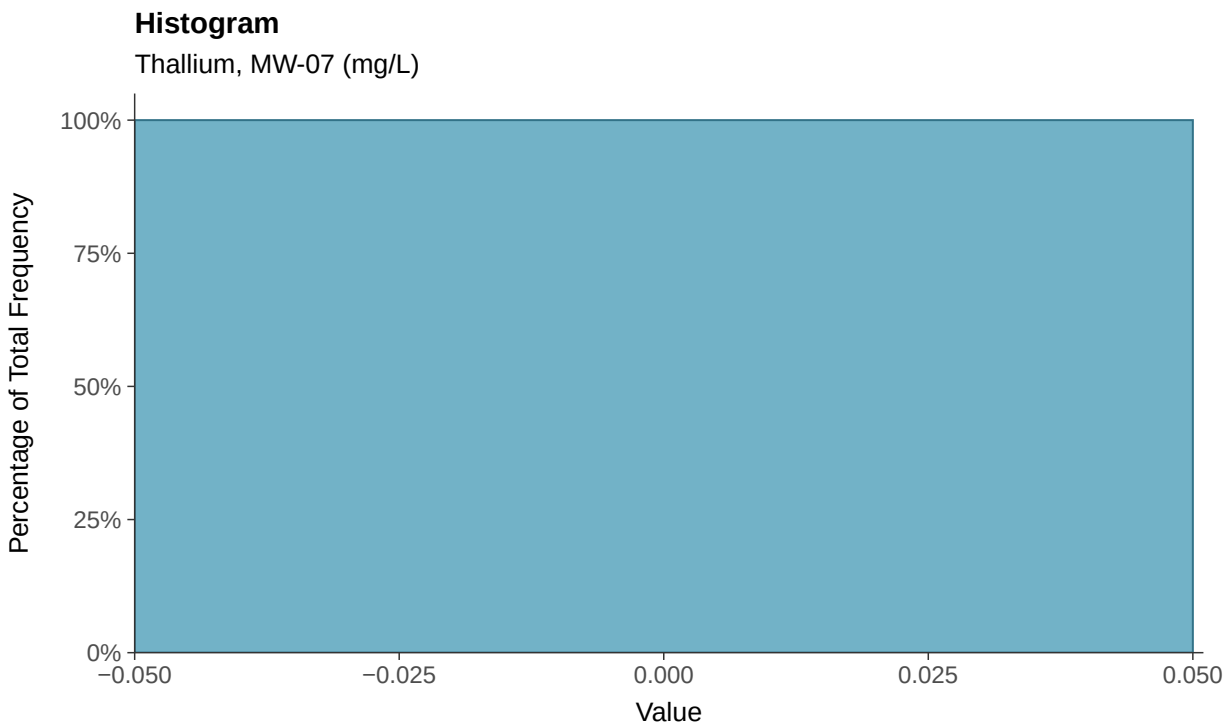
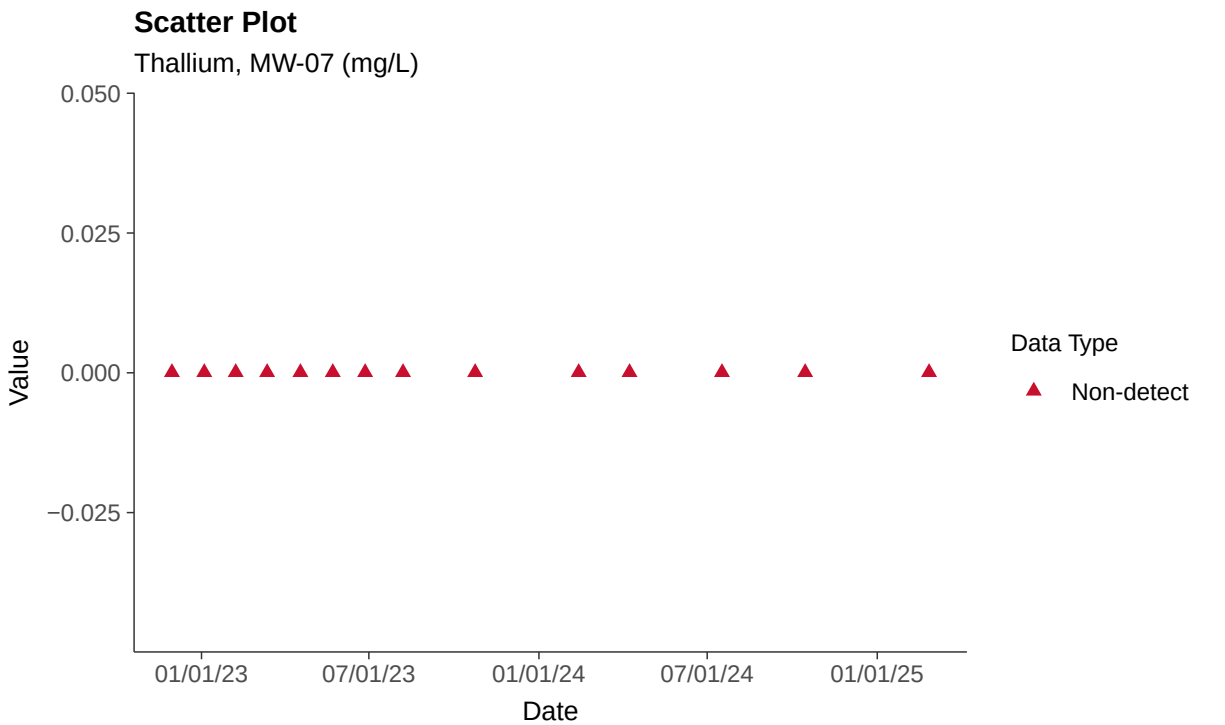


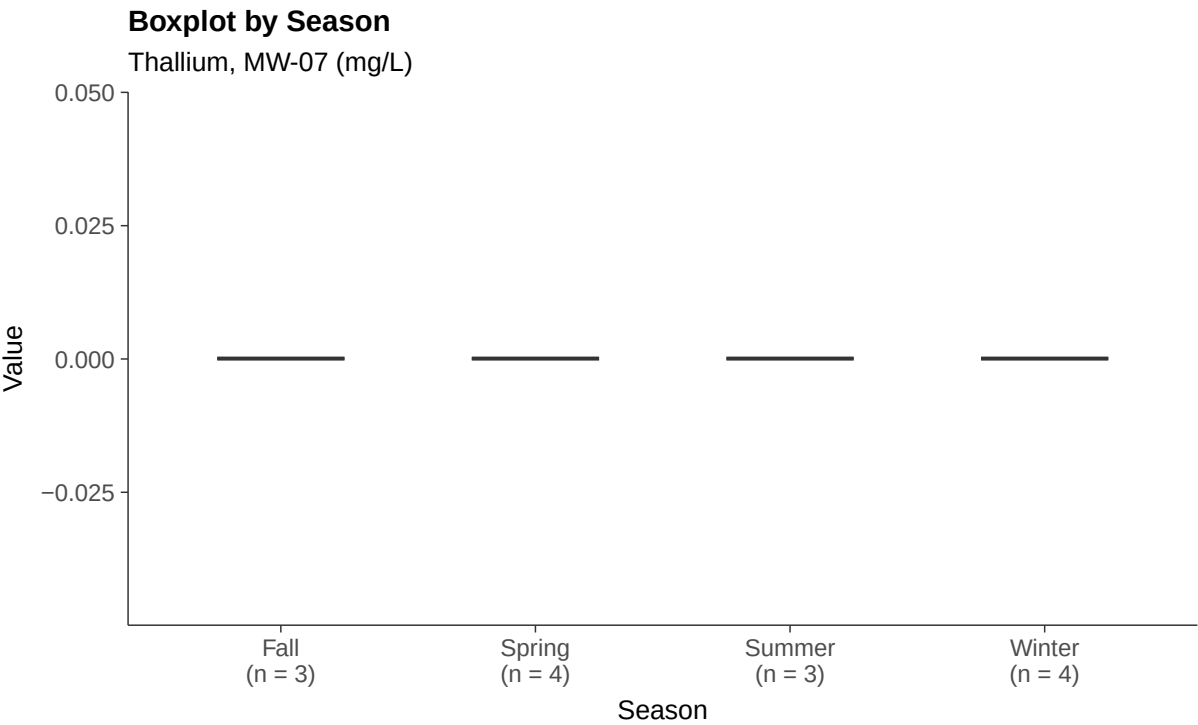
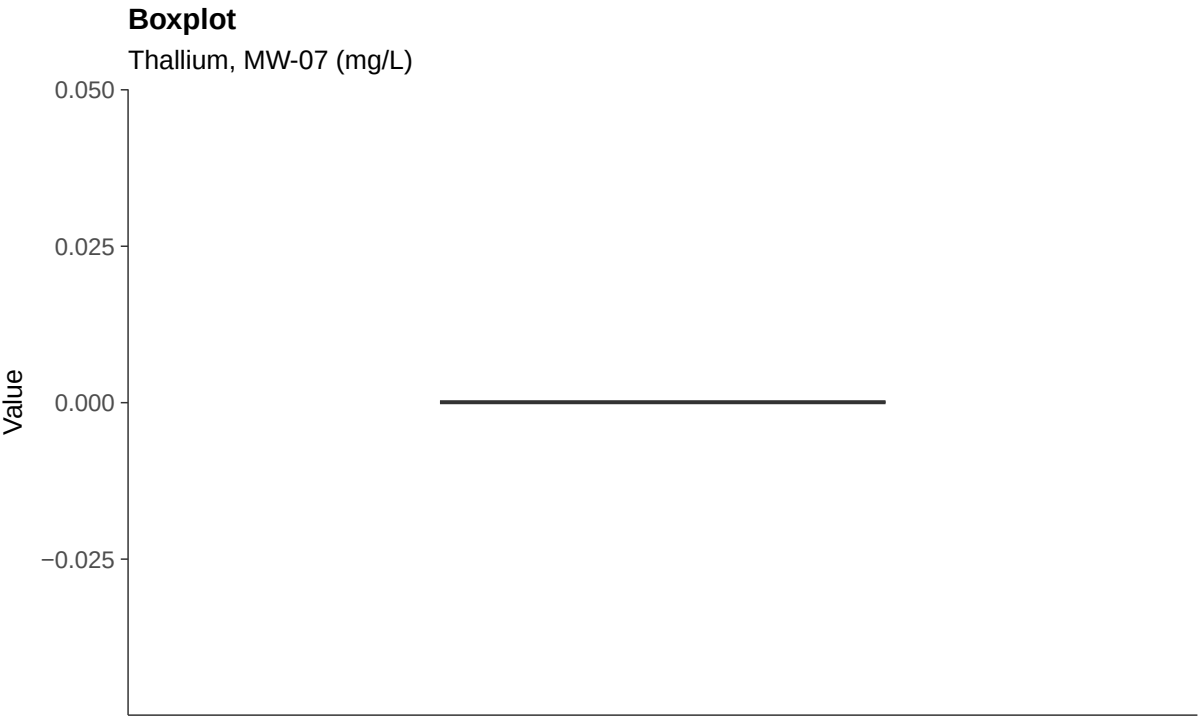




Appendix IV: Thallium, MW-07

ID: 17_1_4_125

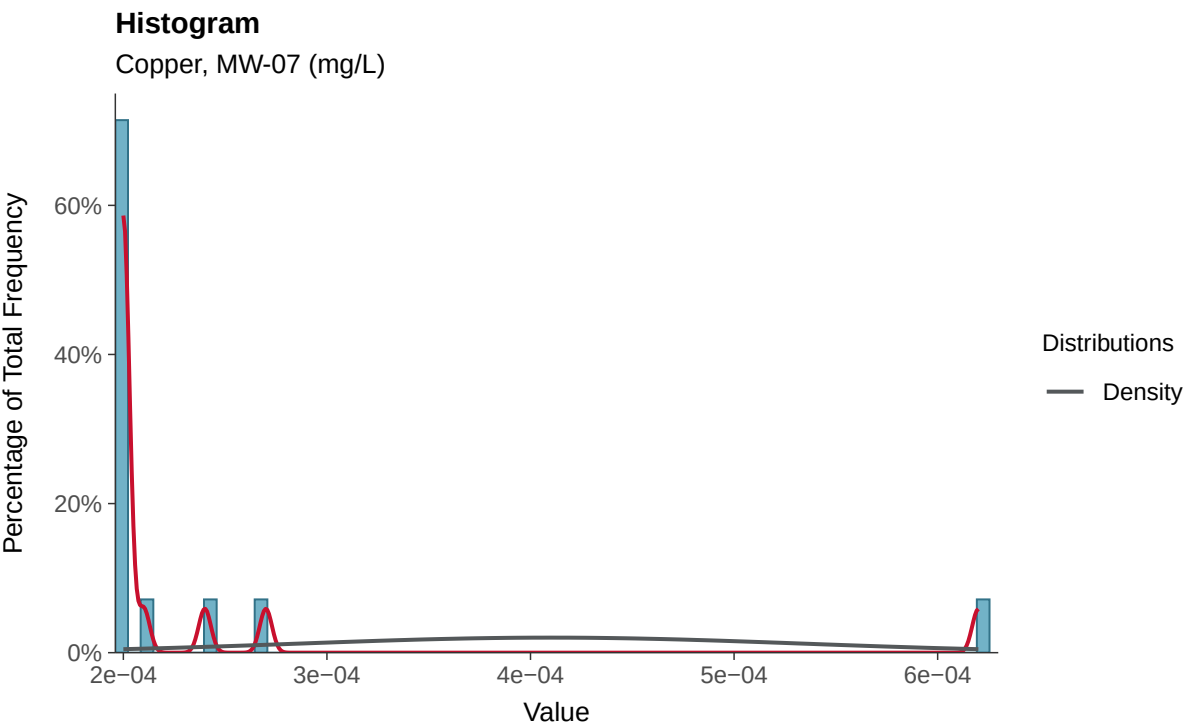
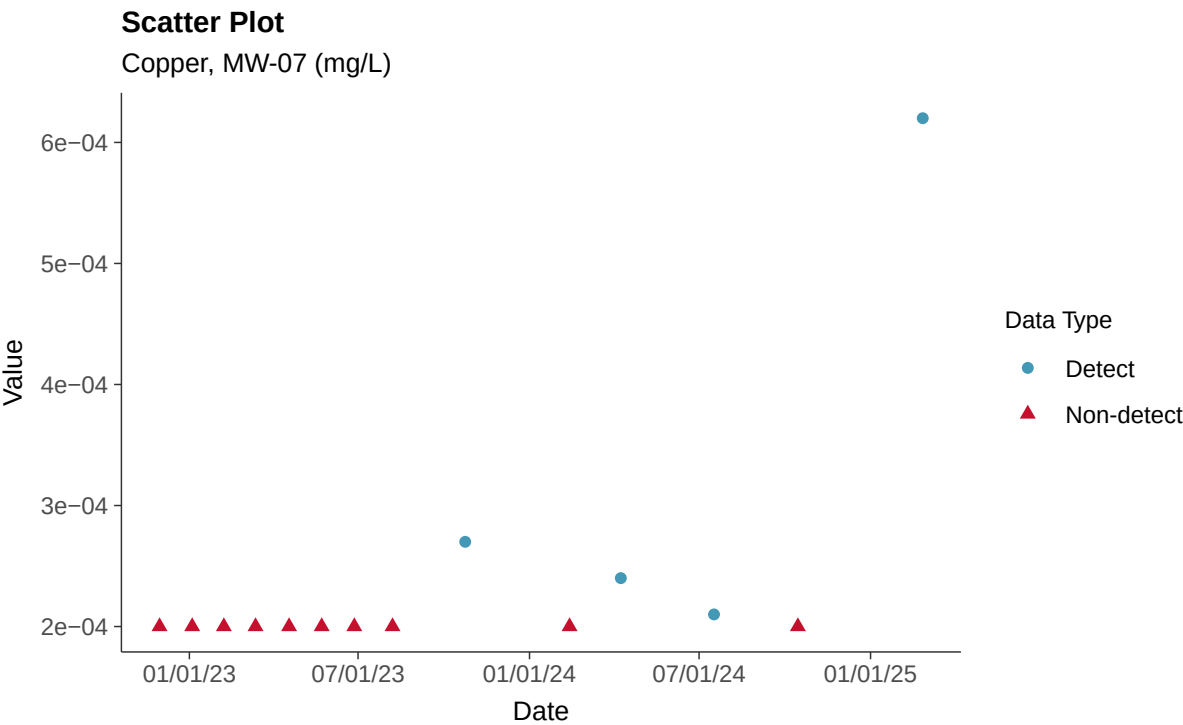


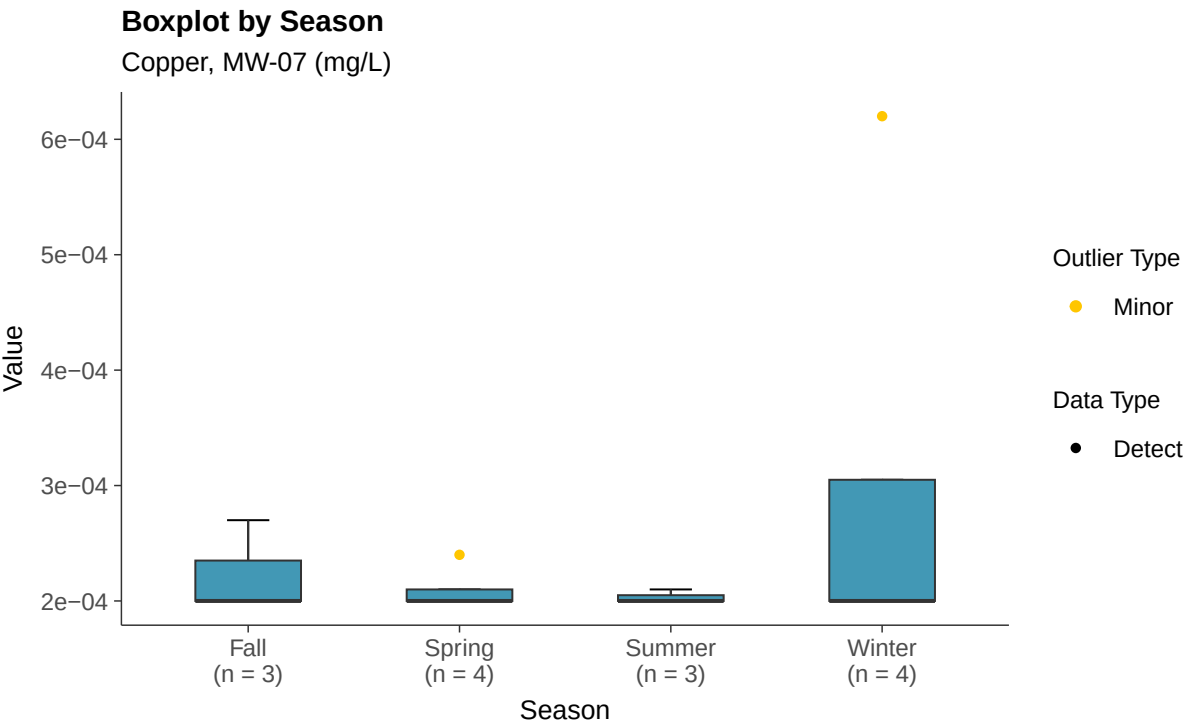
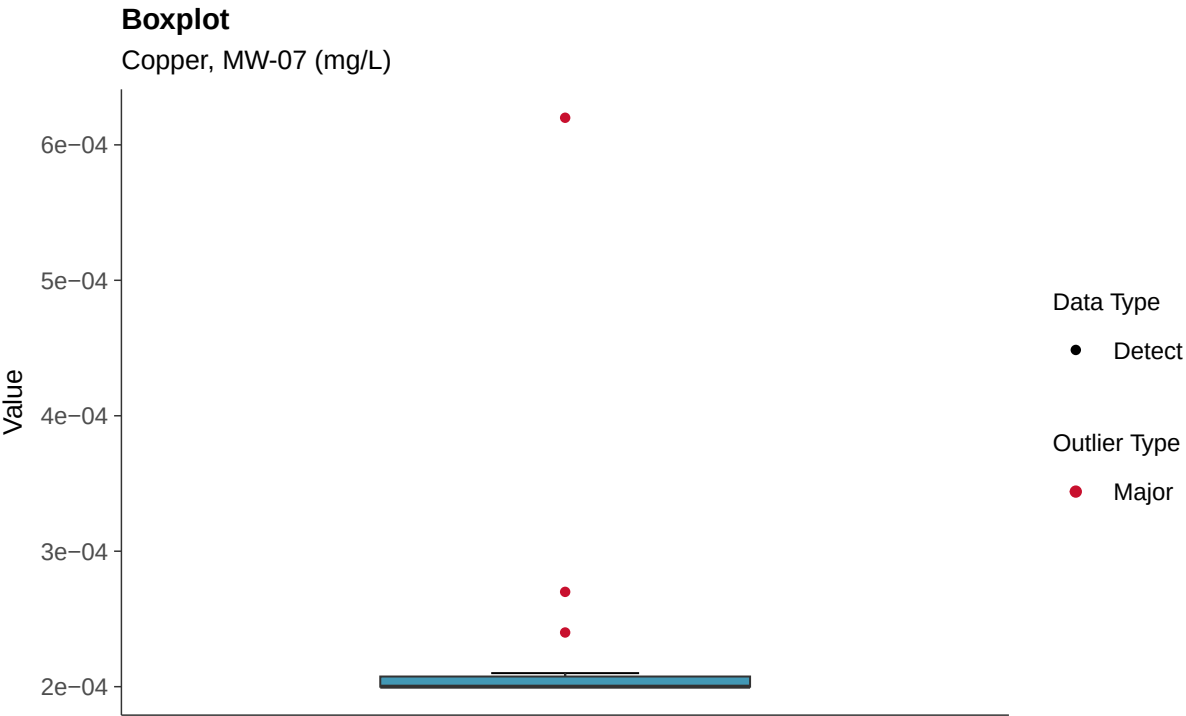


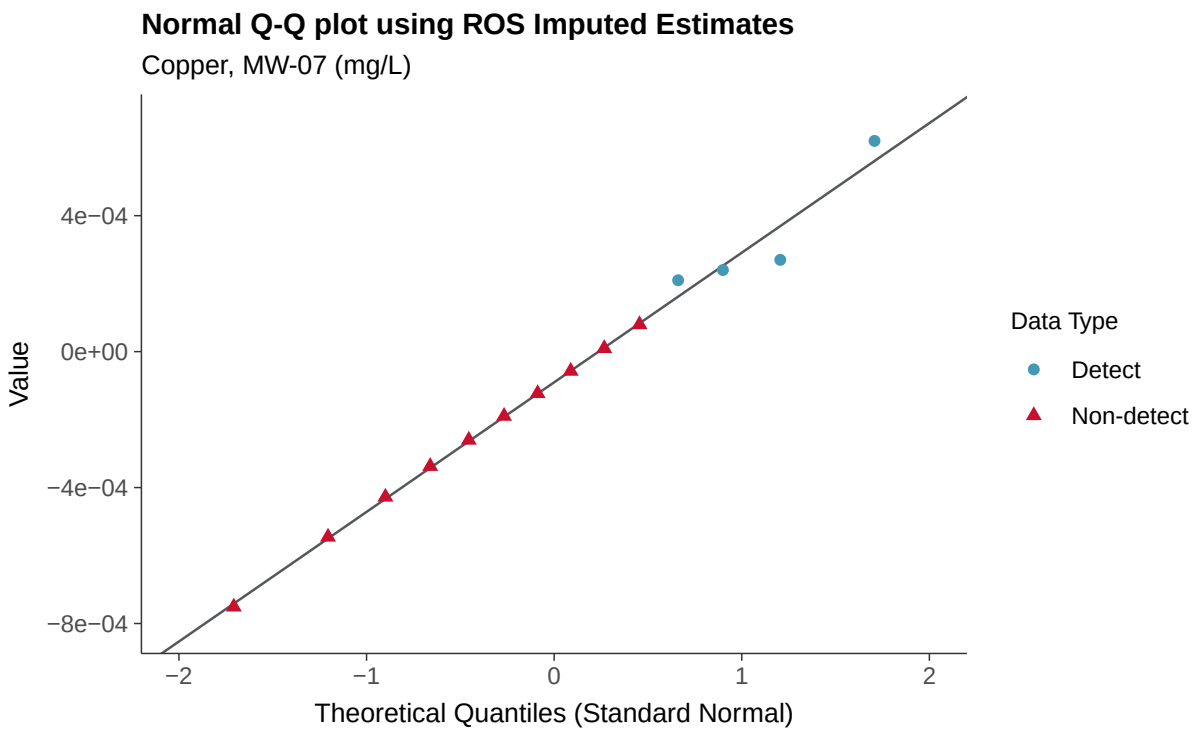


Part 115: Copper, MW-07

ID: 17_1_5_111



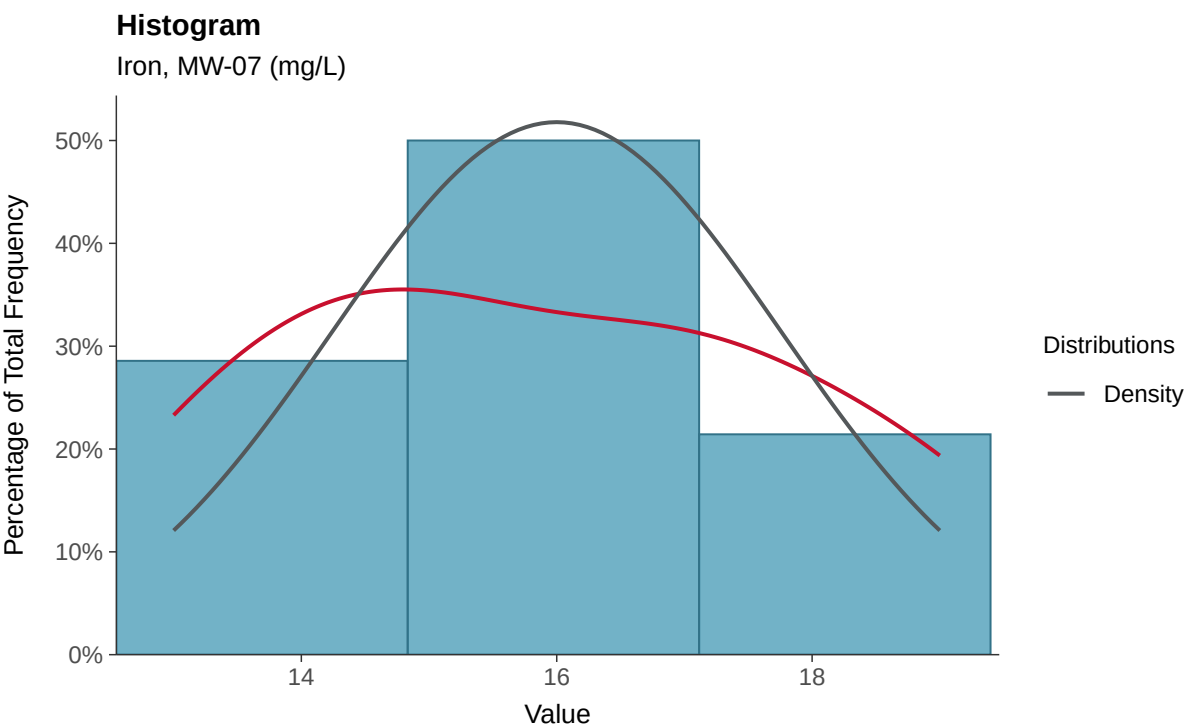
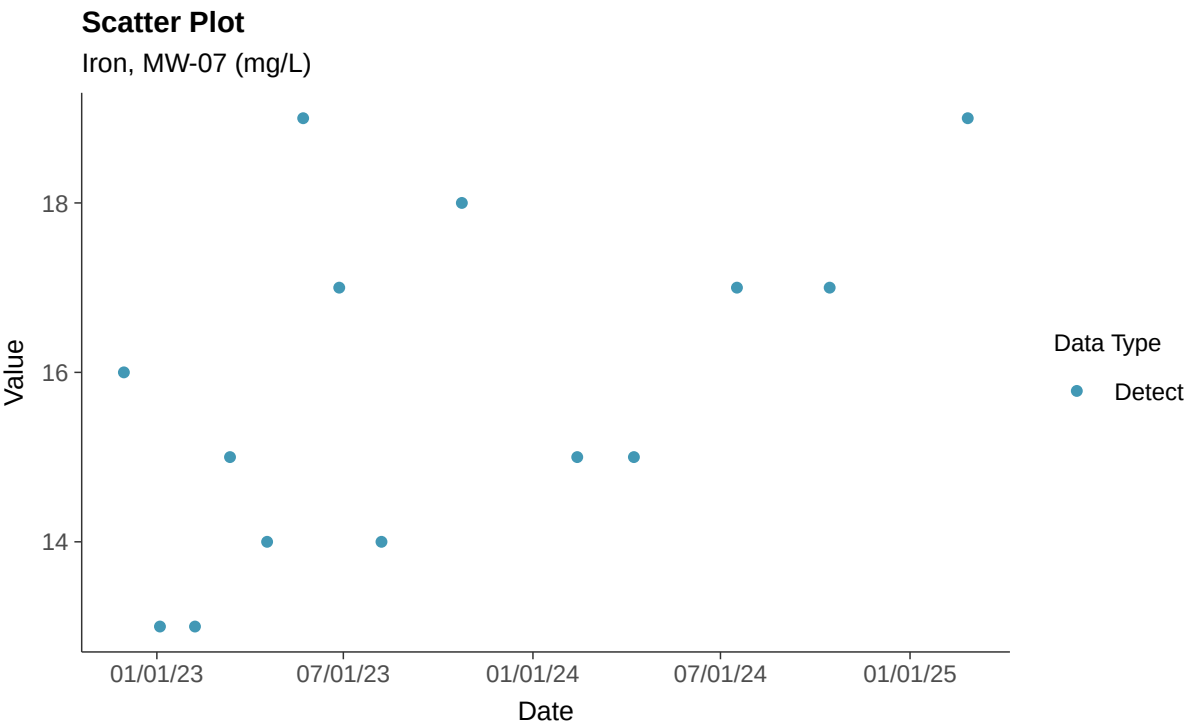


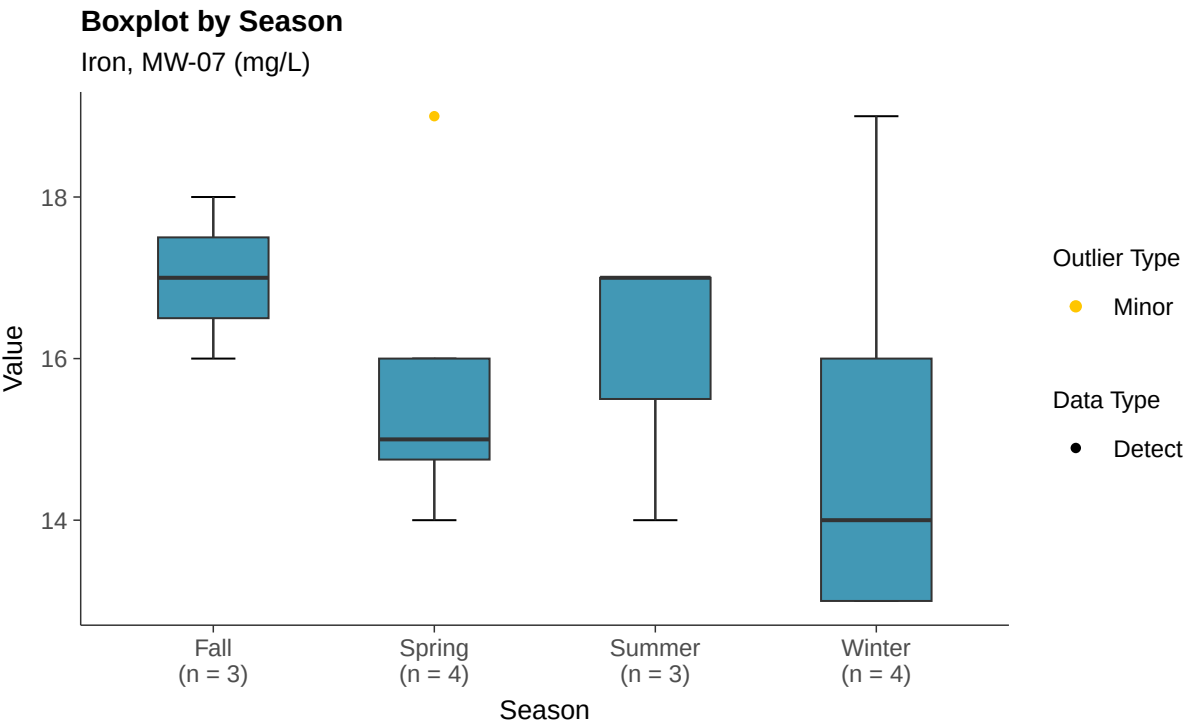
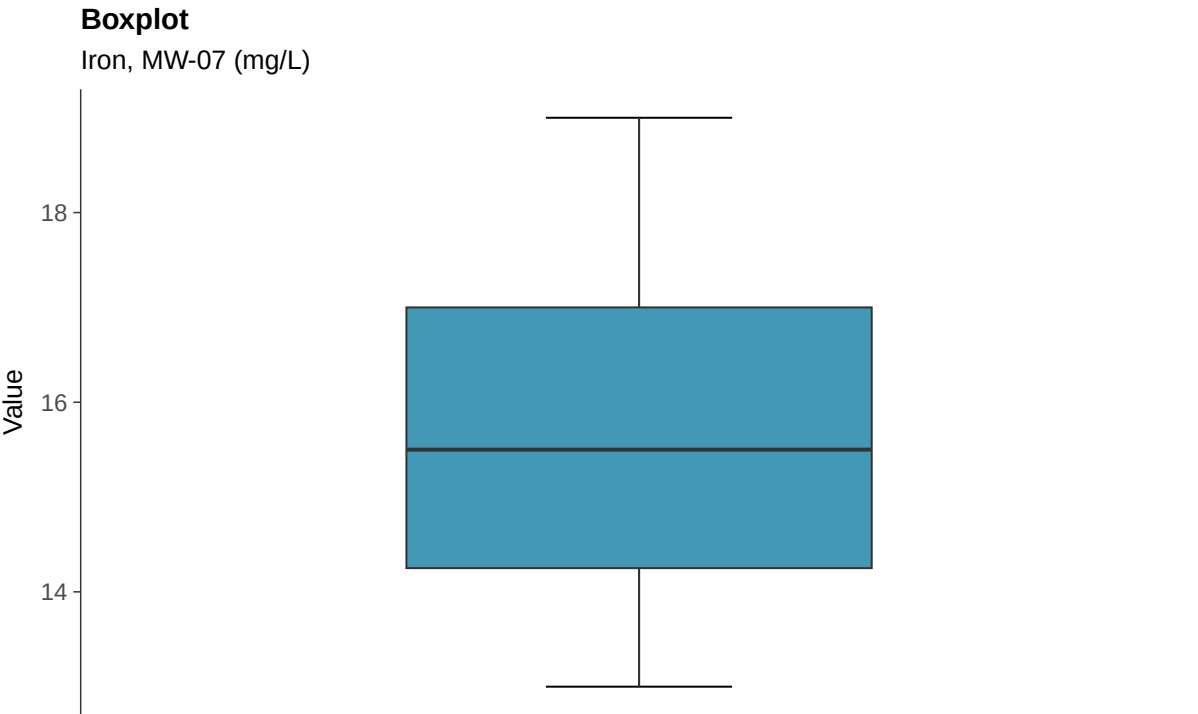


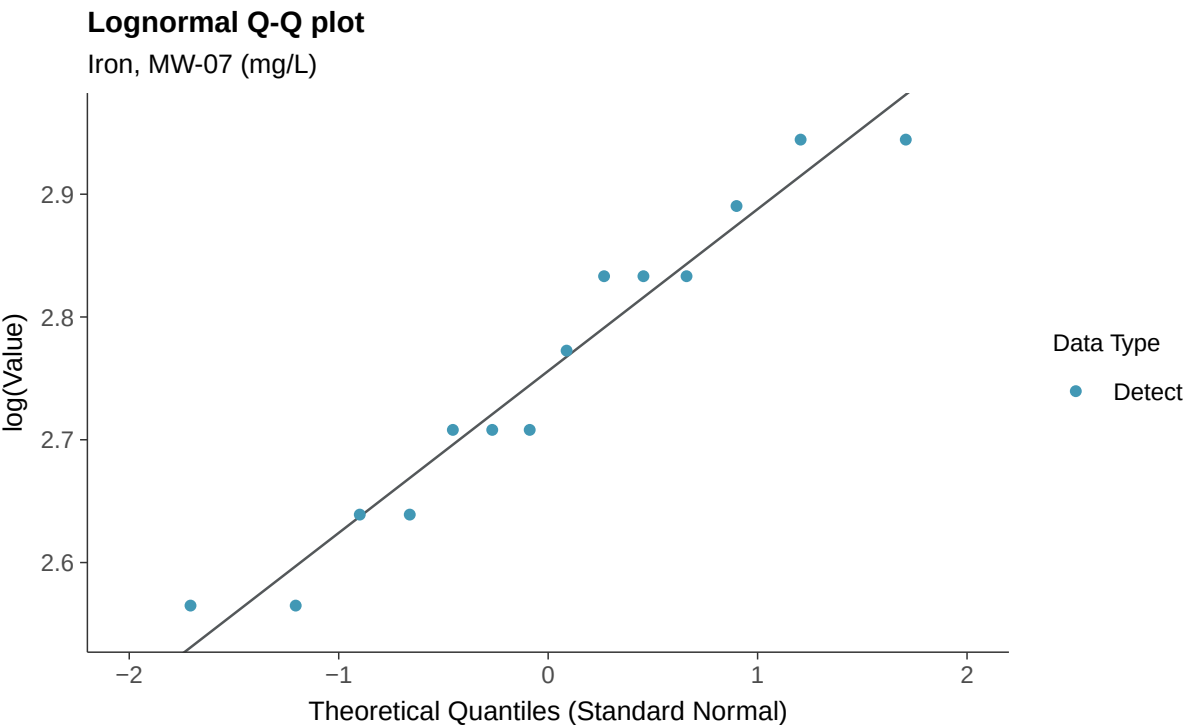
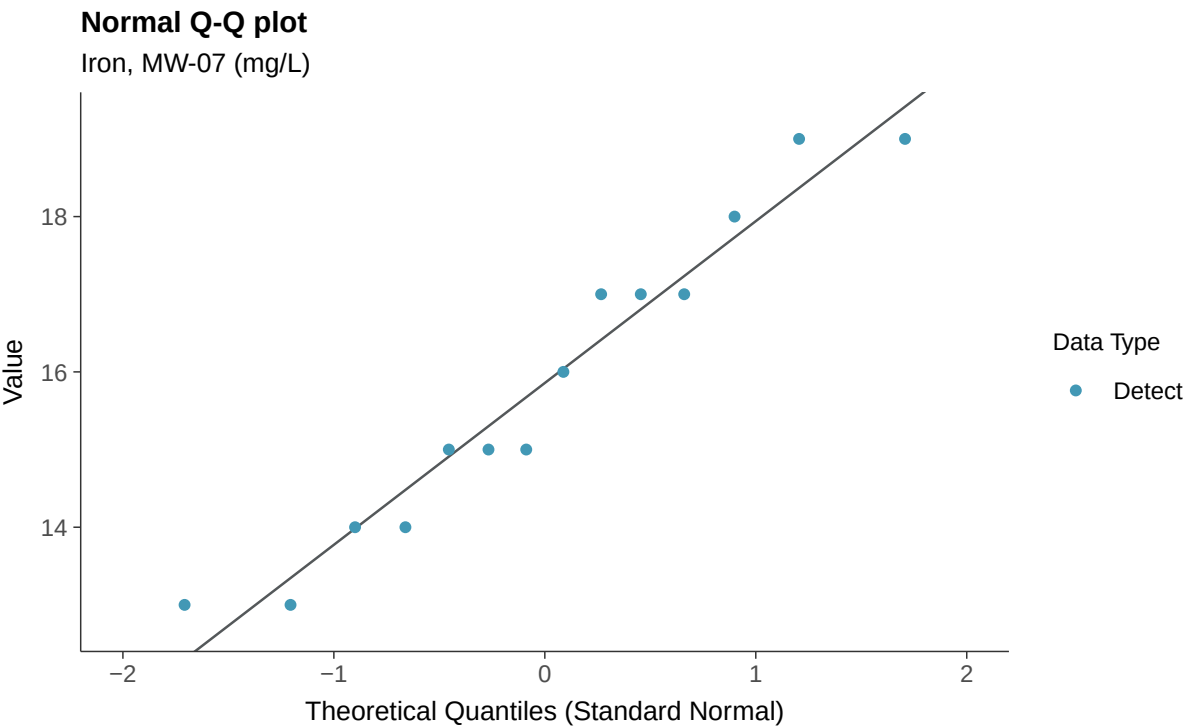


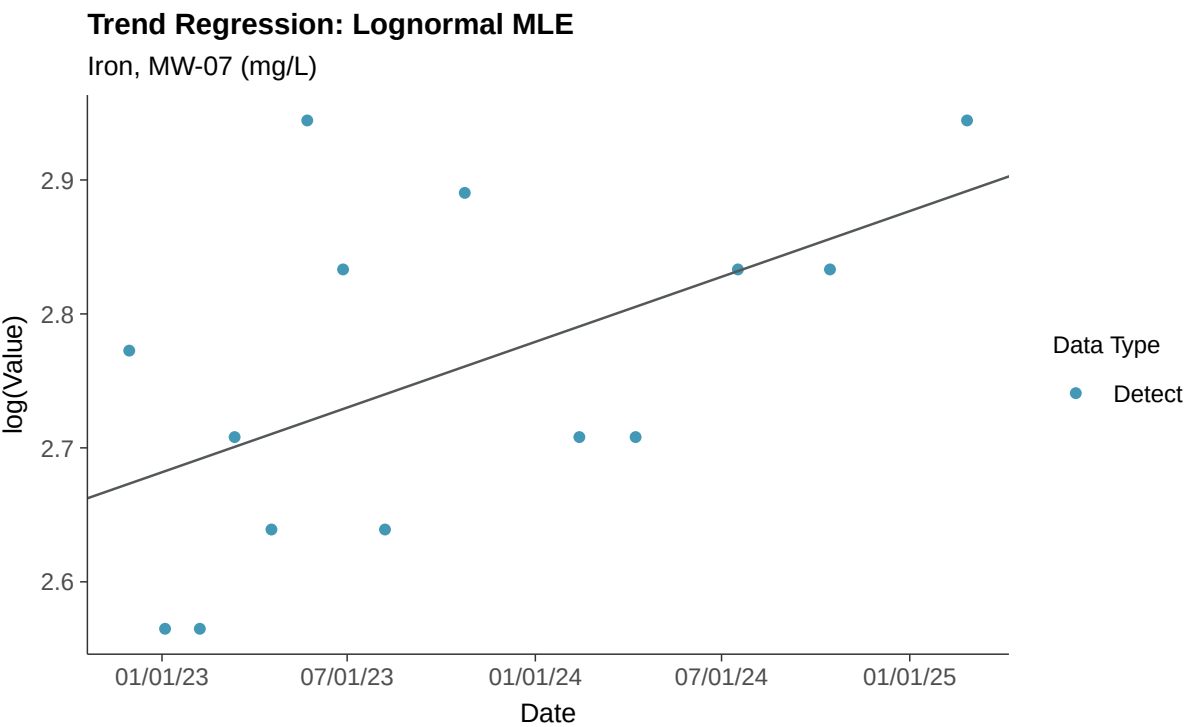
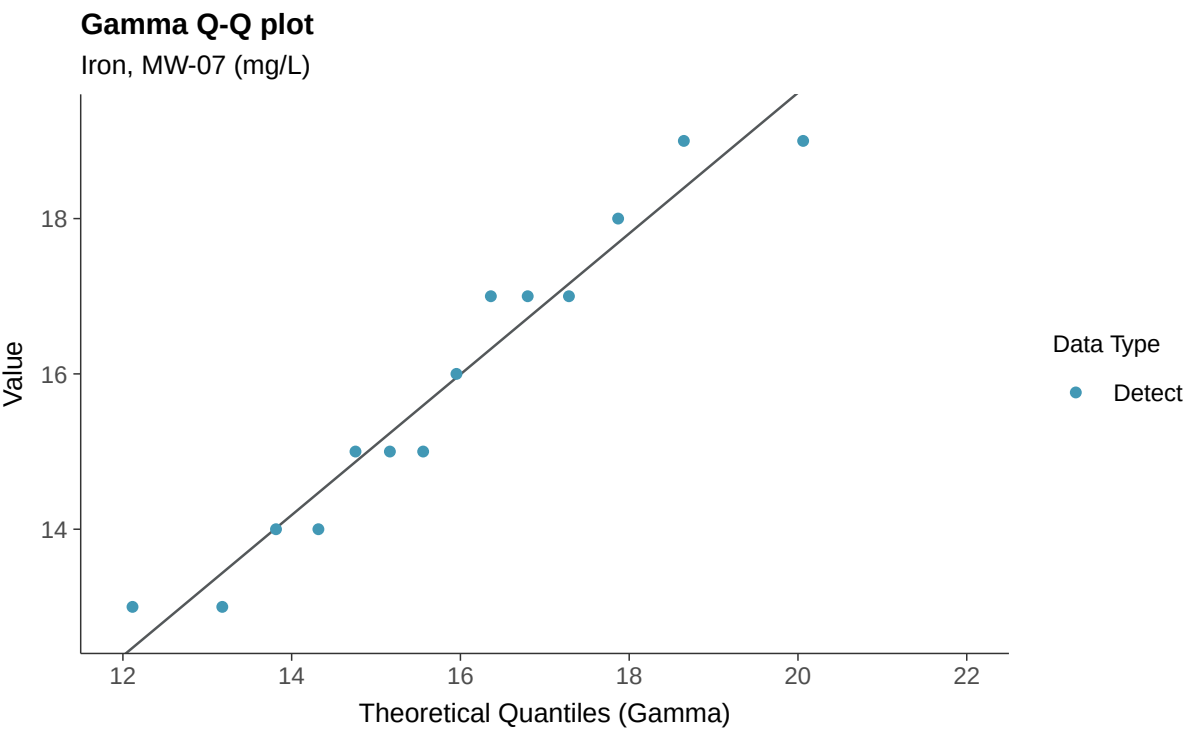
Part 115: Iron, MW-07

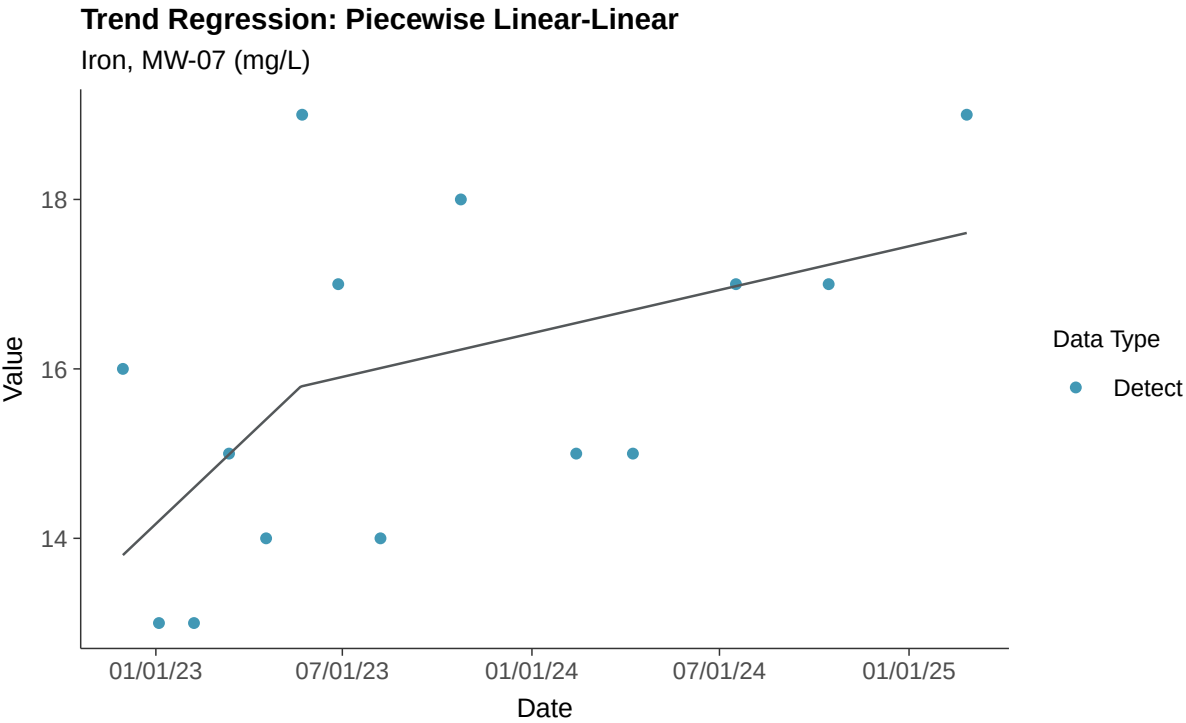
ID: 17_1_5_114







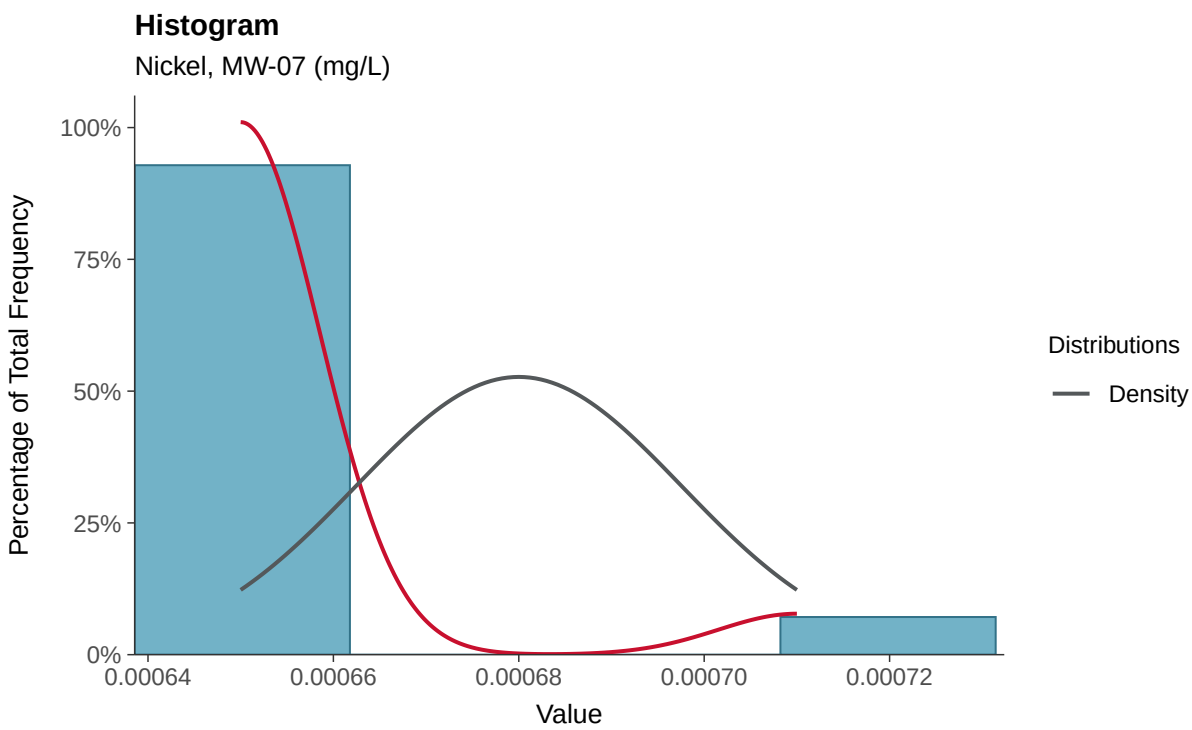
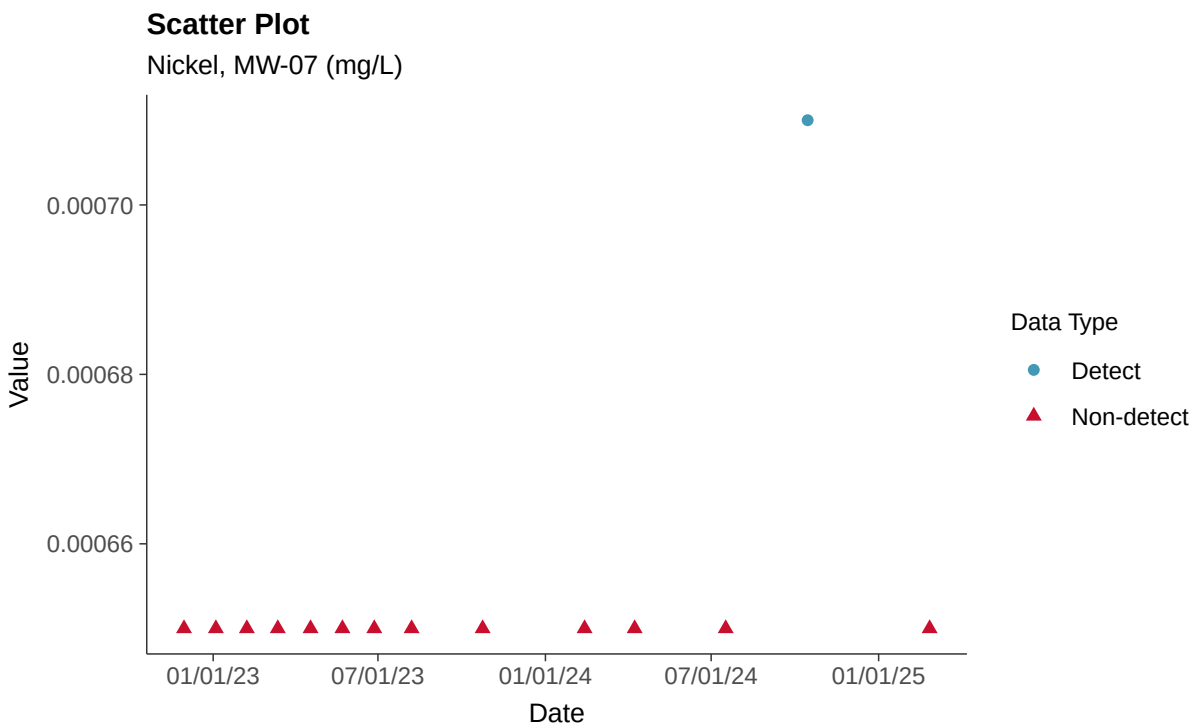


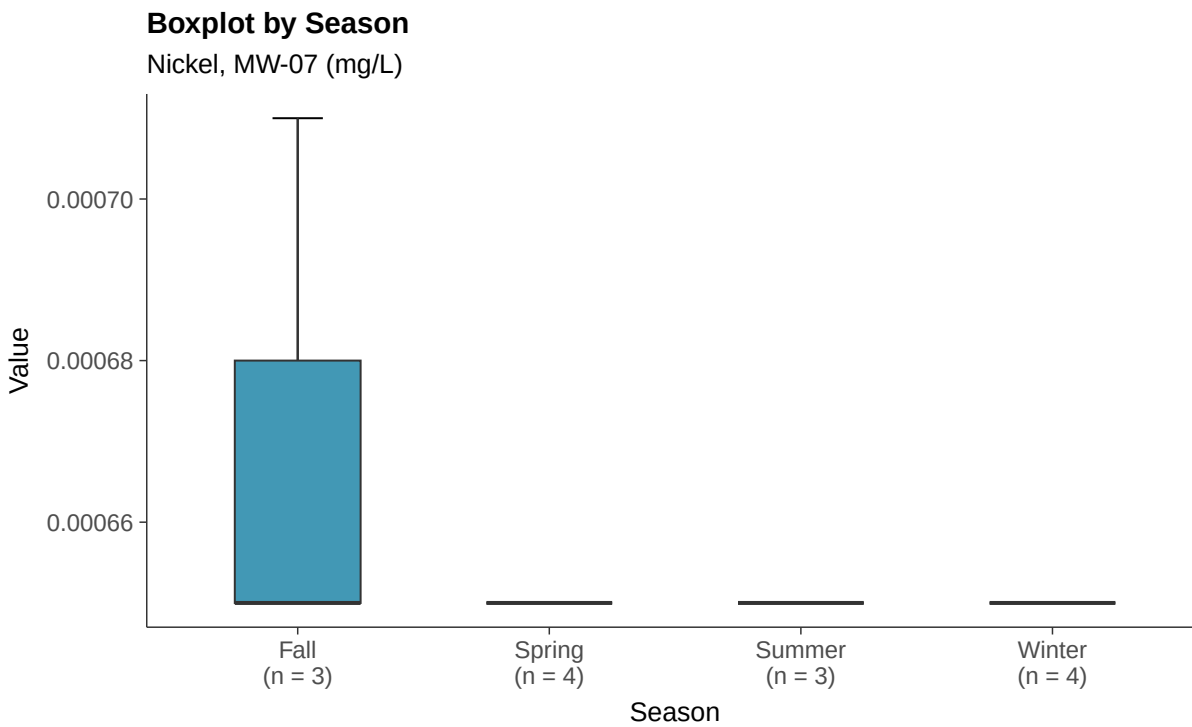
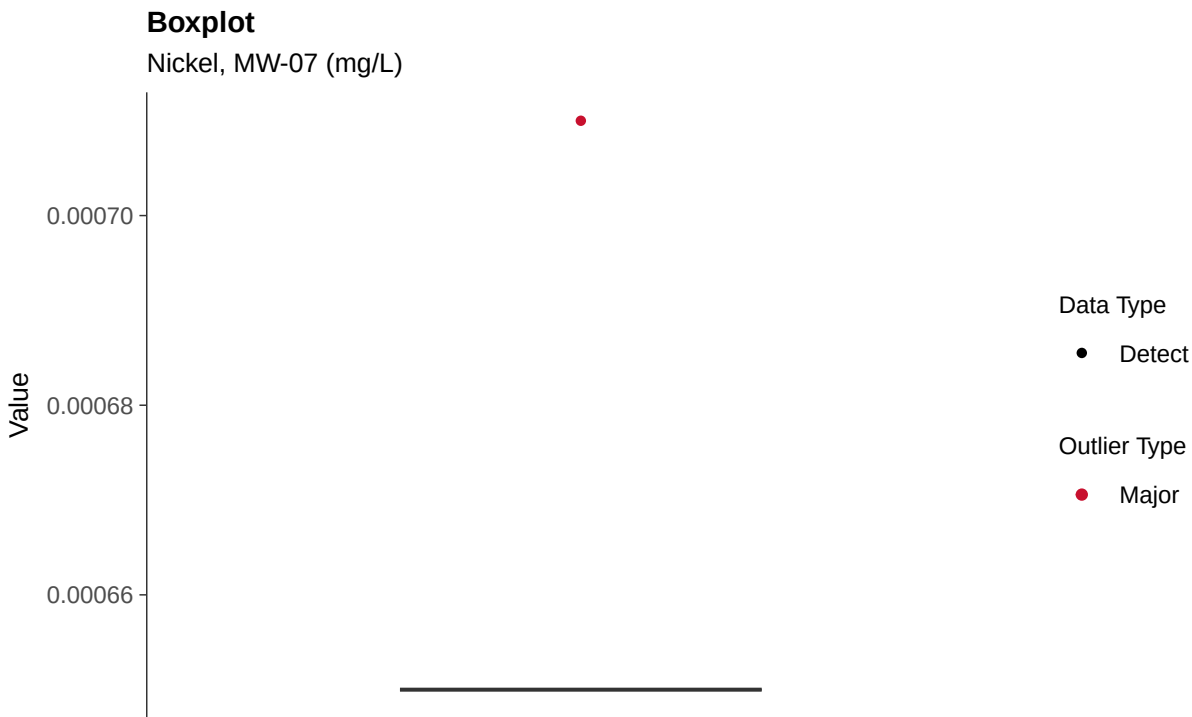




Part 115: Nickel, MW-07

ID: 17_1_5_119

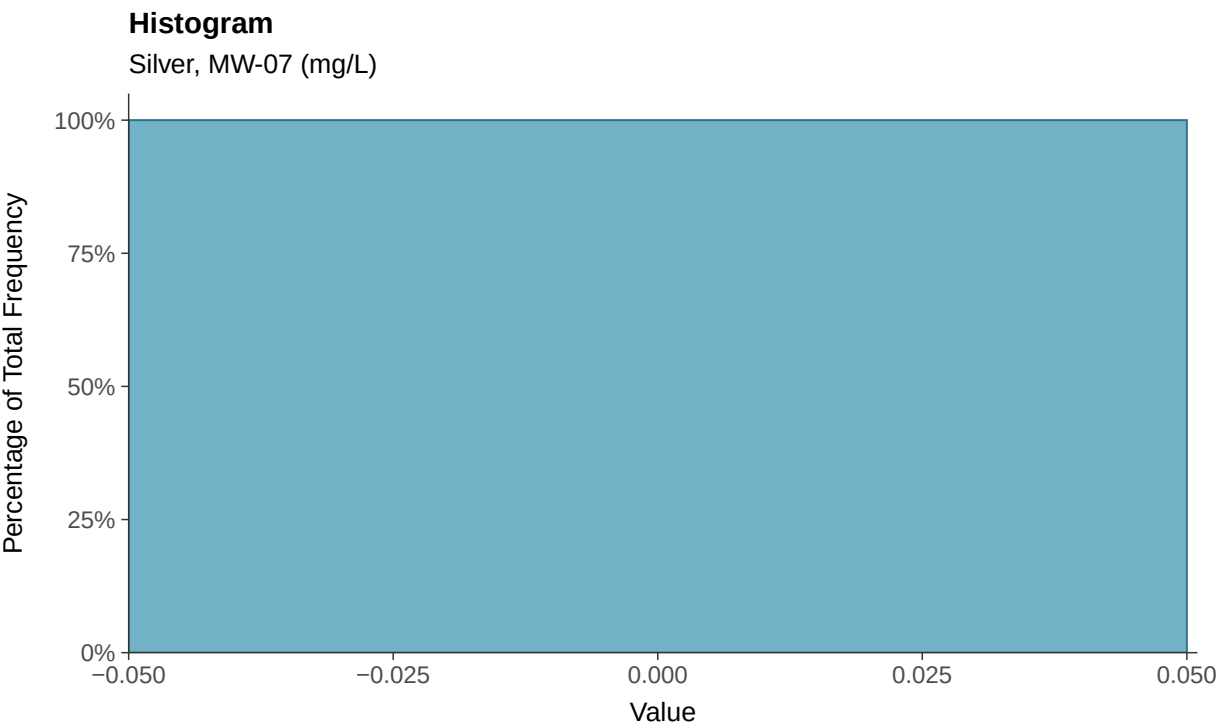
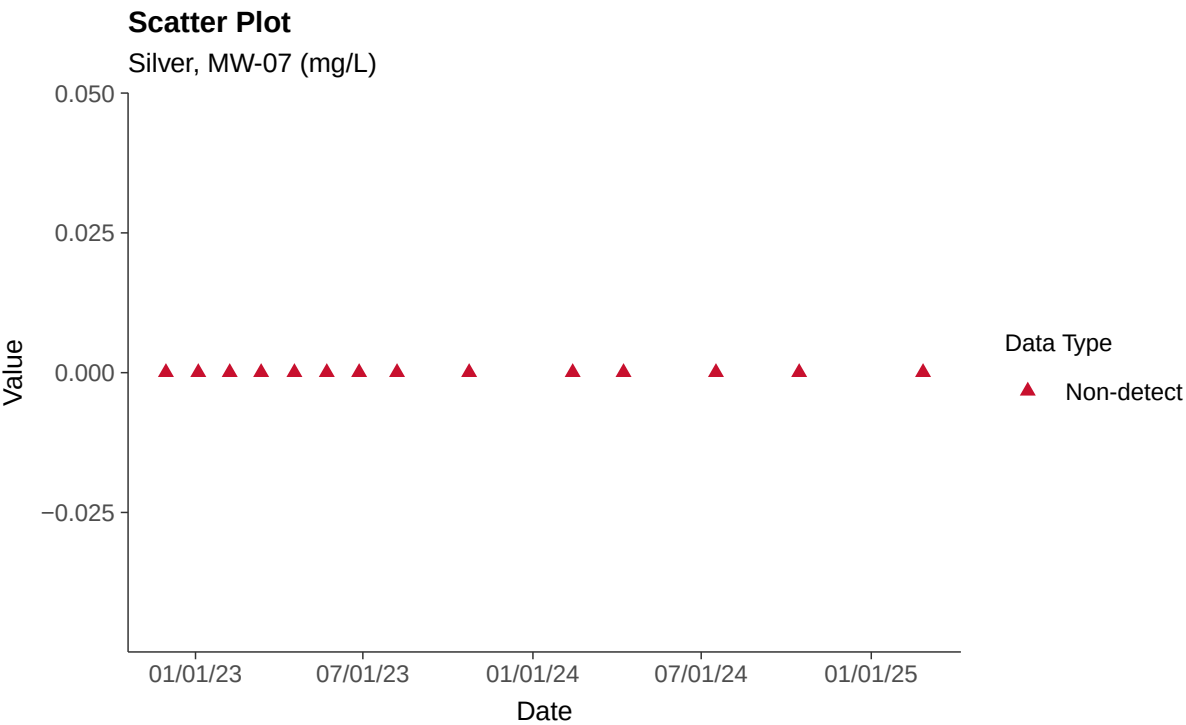


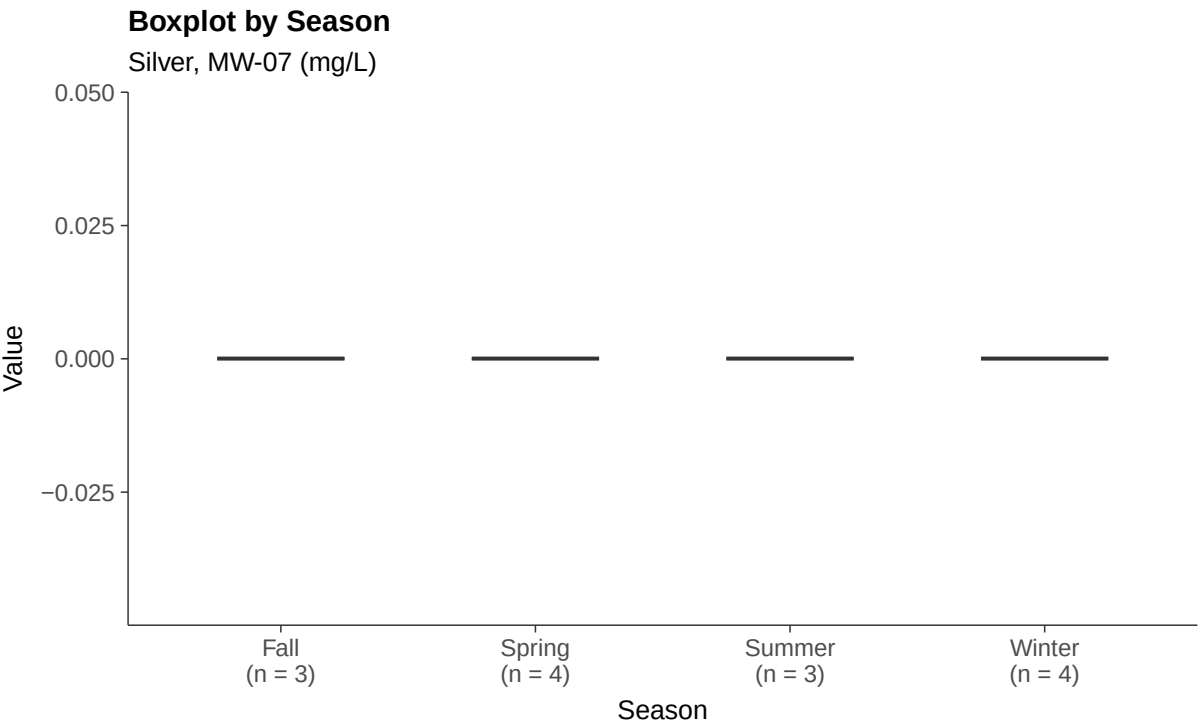
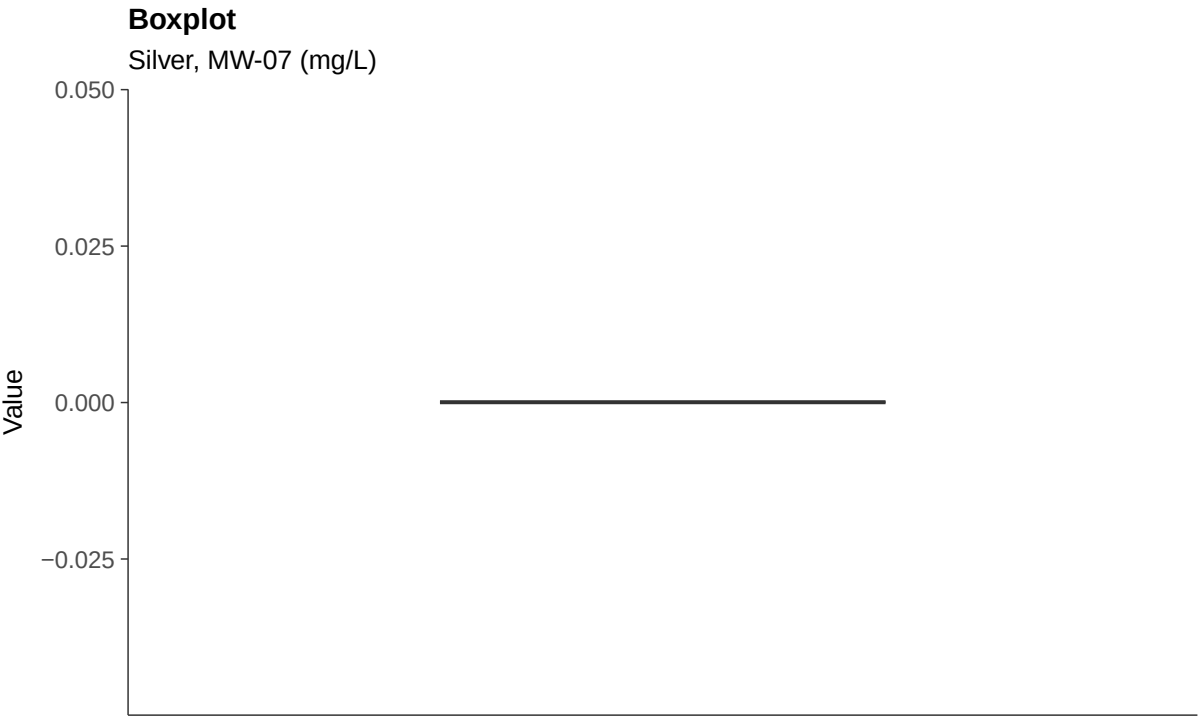




Part 115: Silver, MW-07

ID: 17_1_5_123

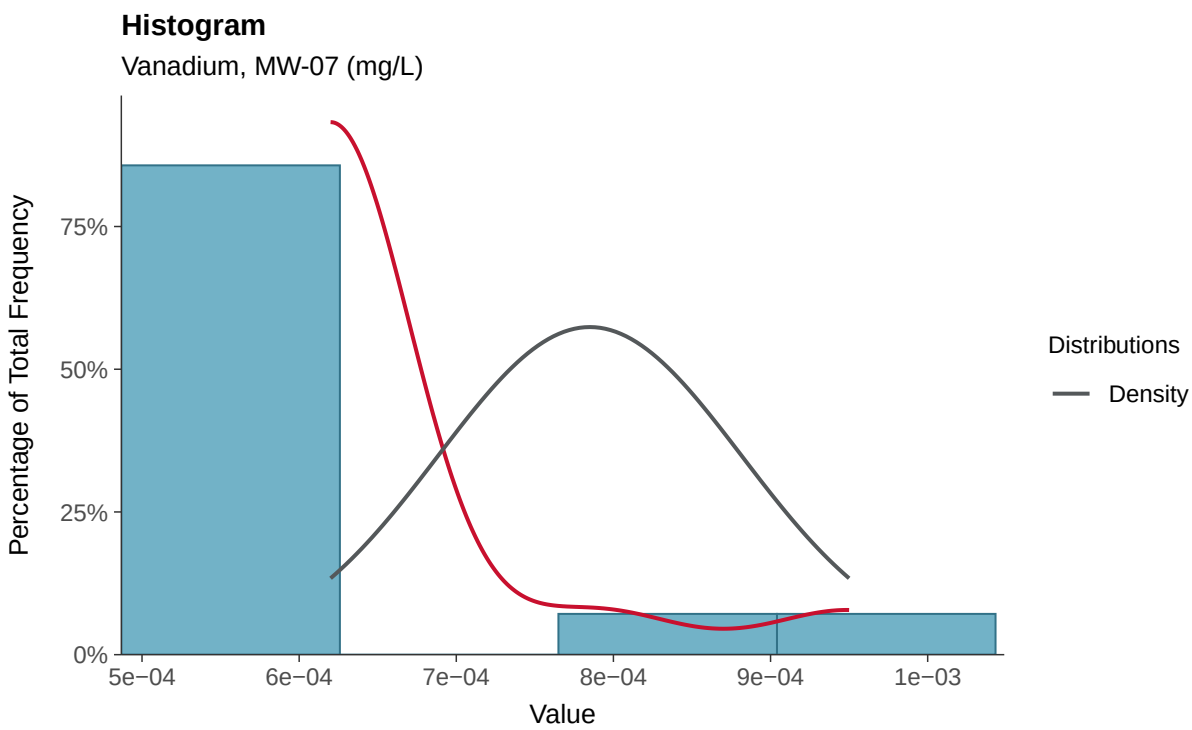
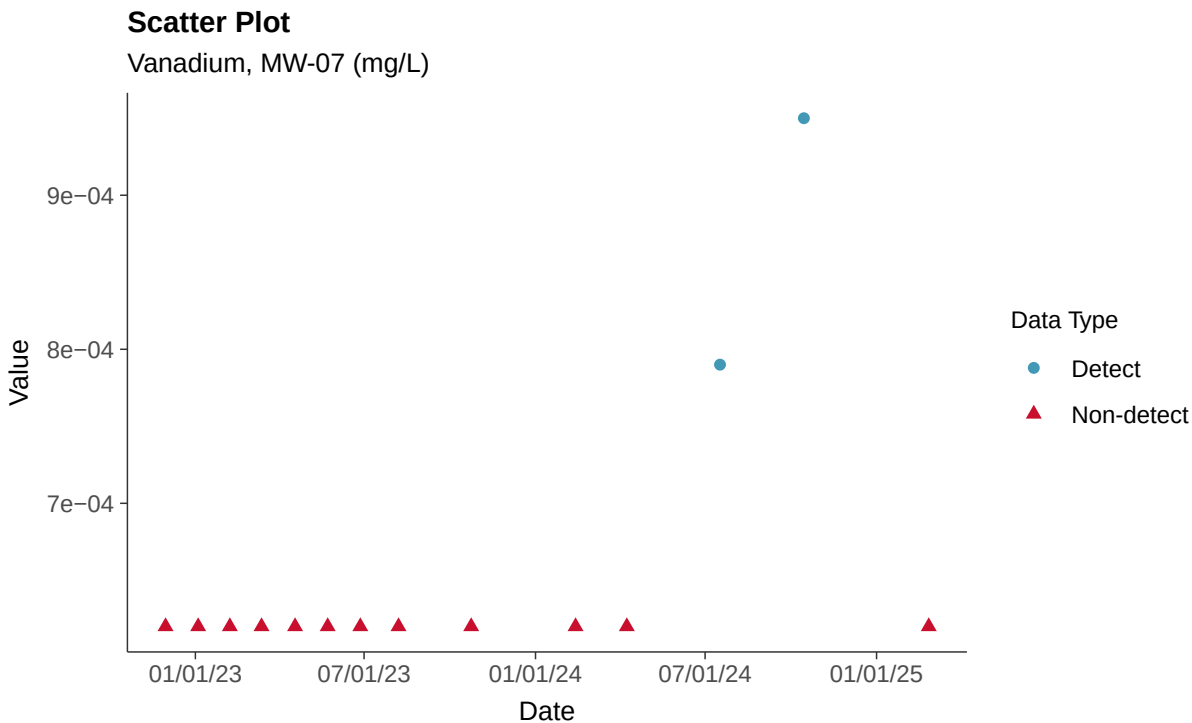


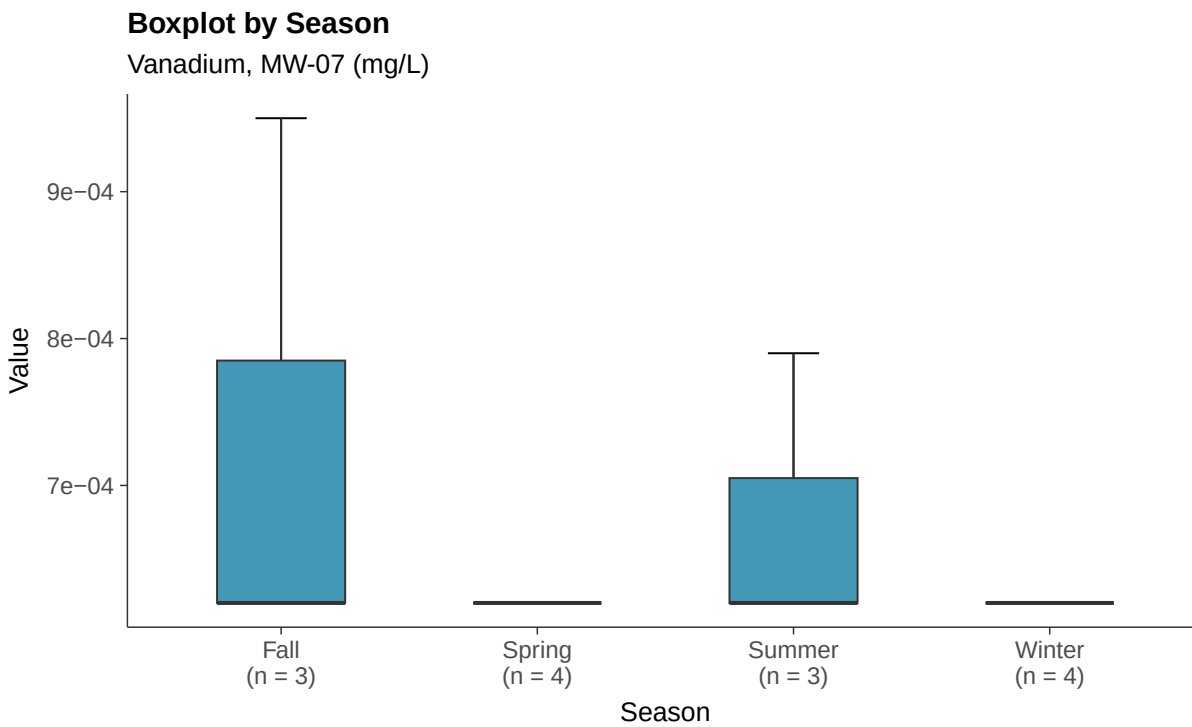
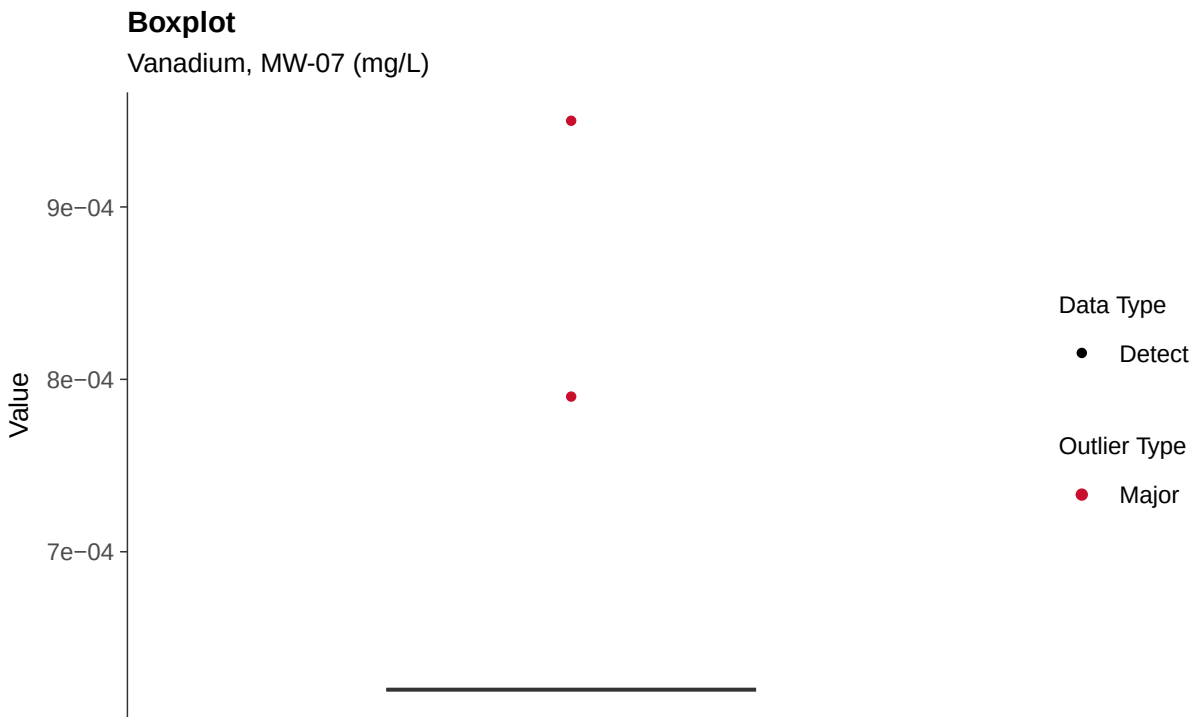




Part 115: Vanadium, MW-07

ID: 17_1_5_128

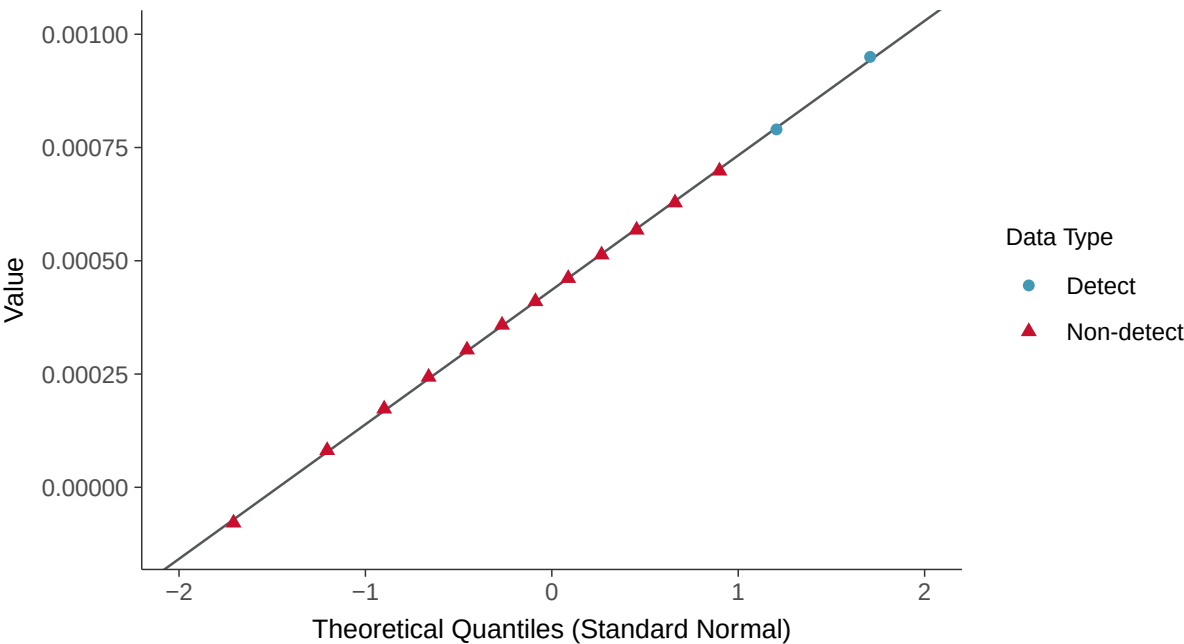






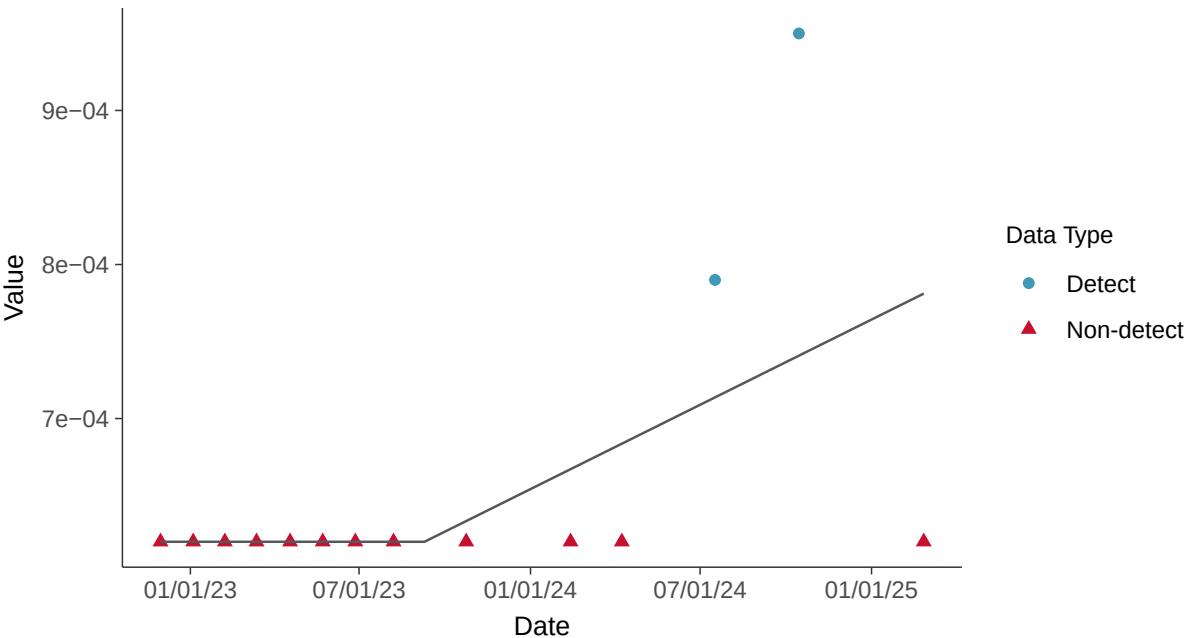
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear

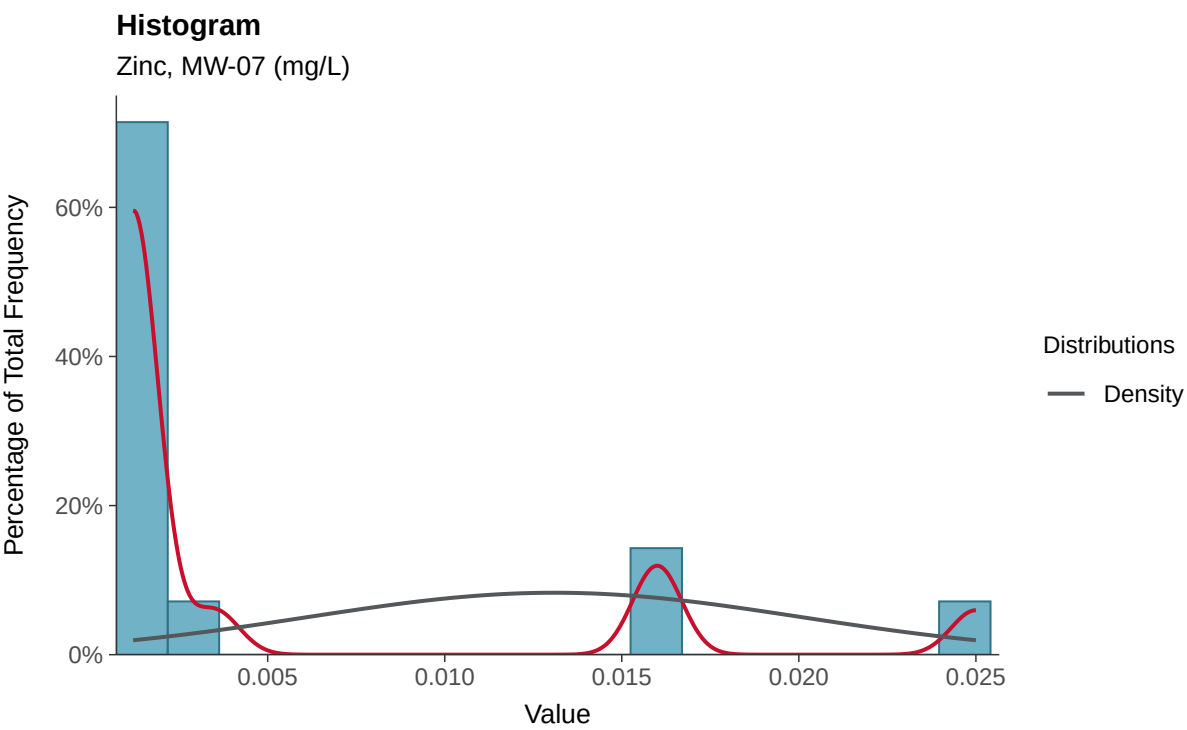
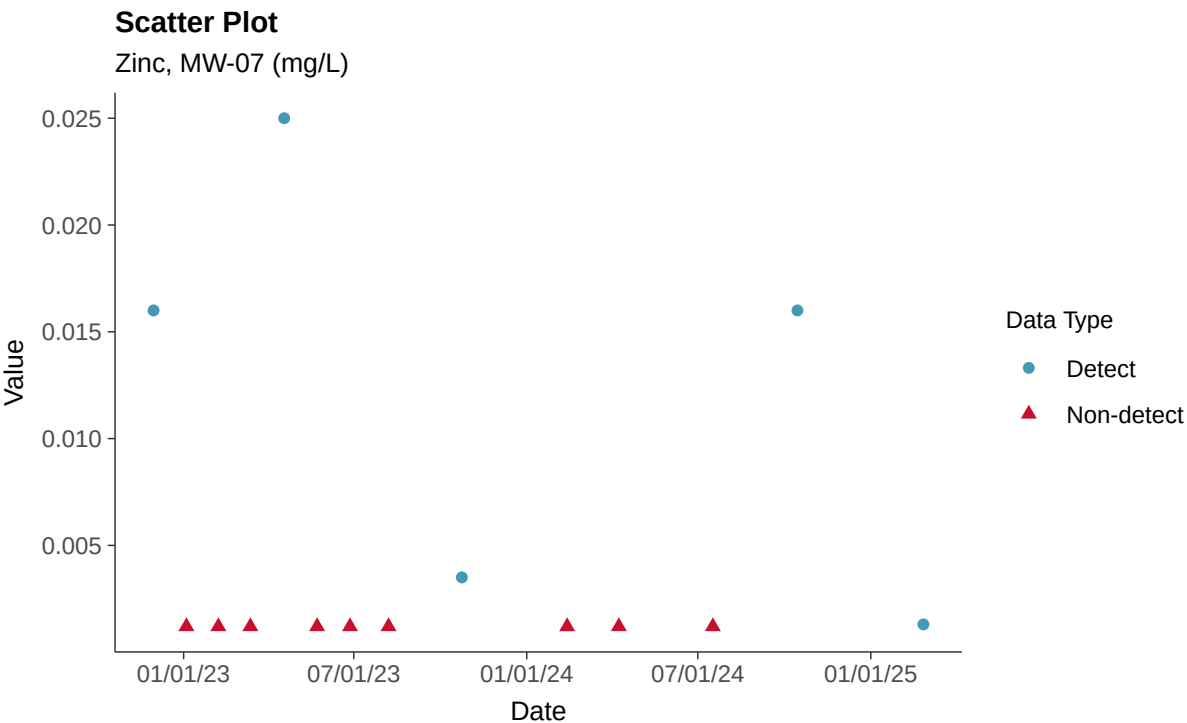
Vanadium, MW-07 (mg/L)

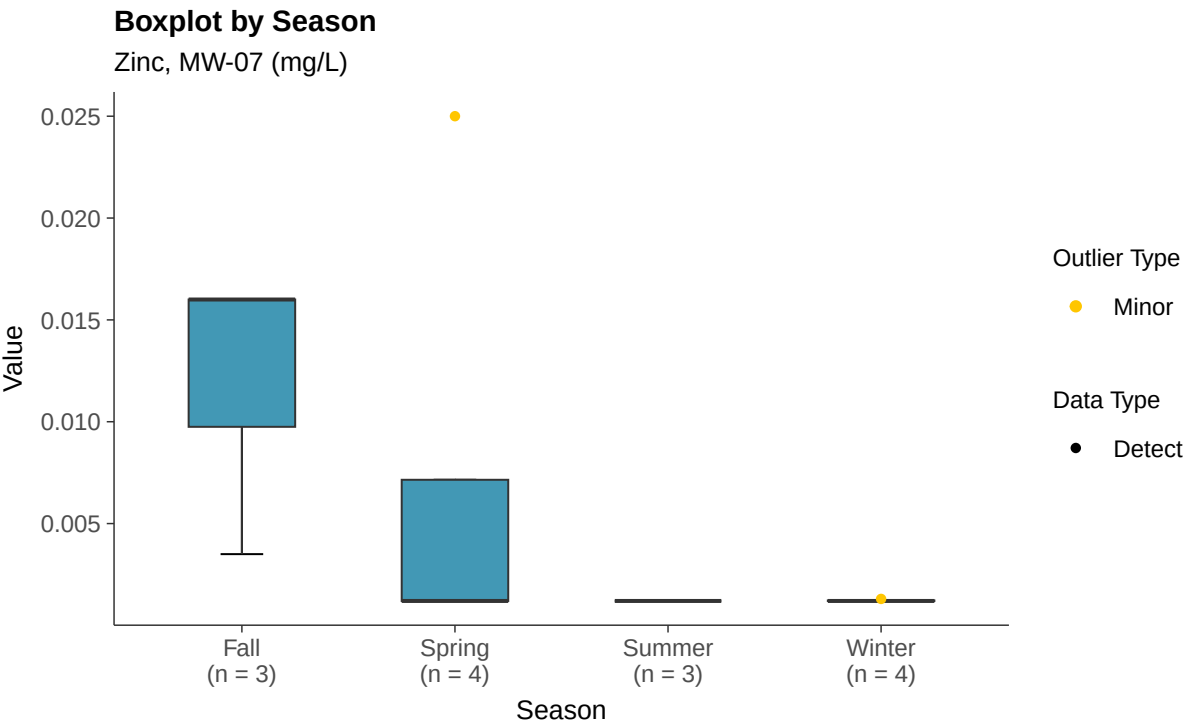
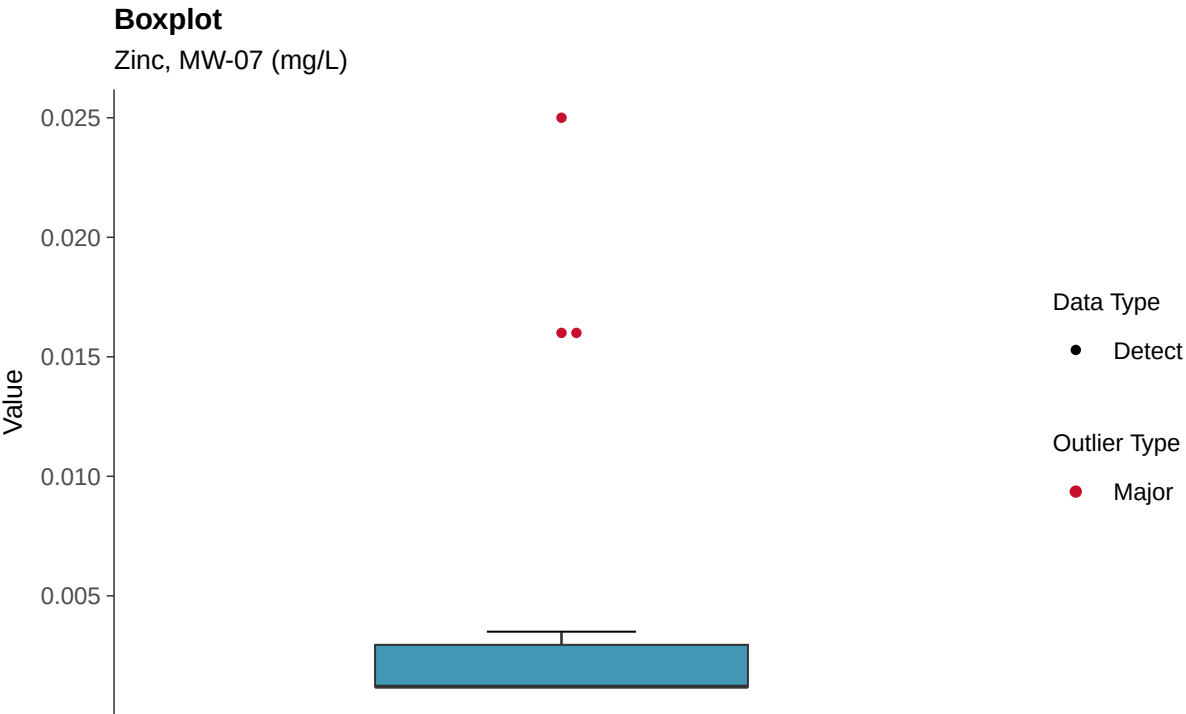


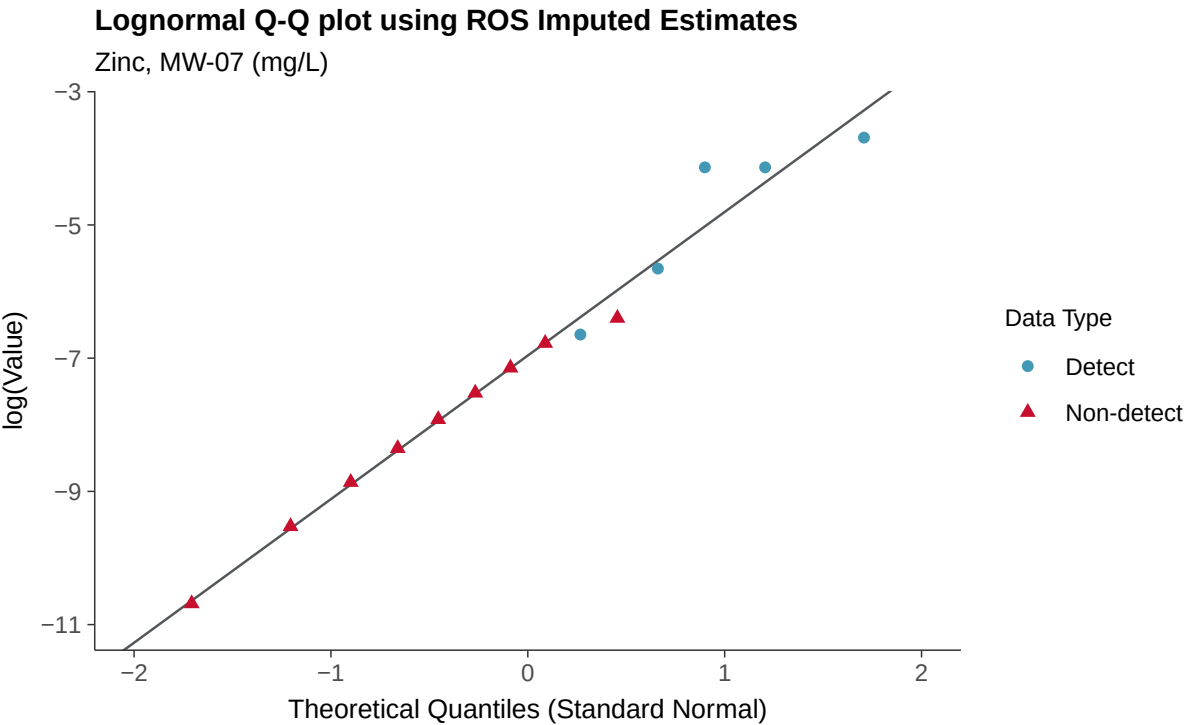
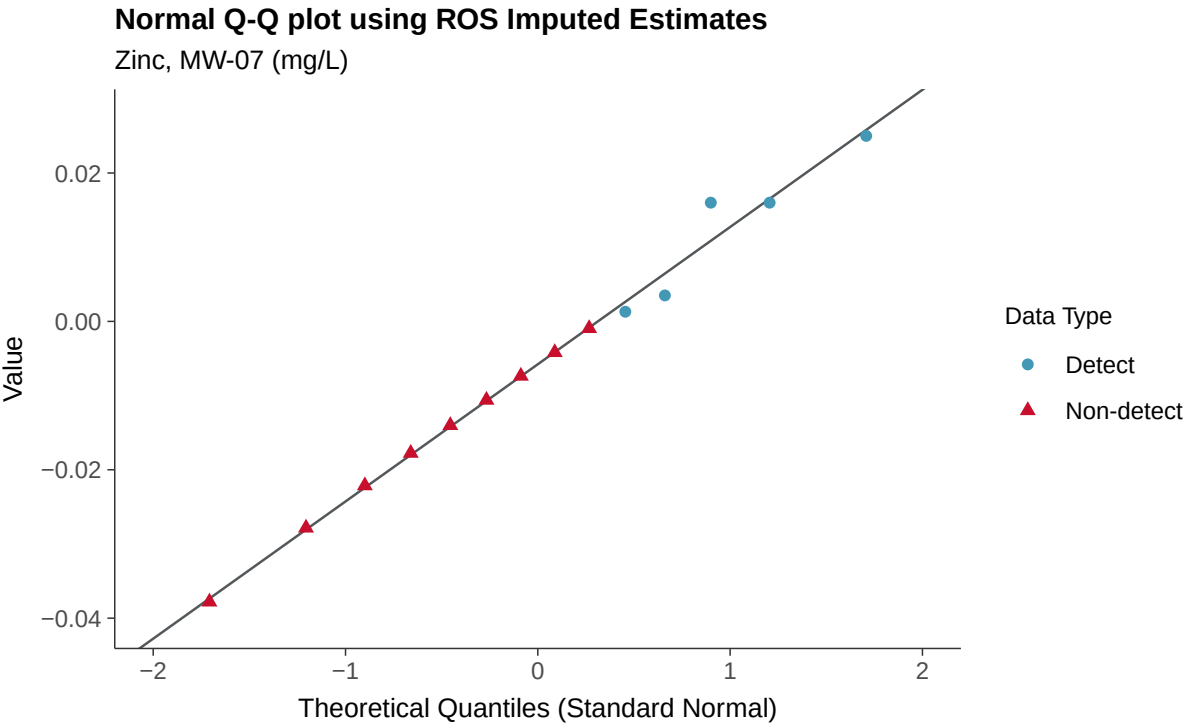


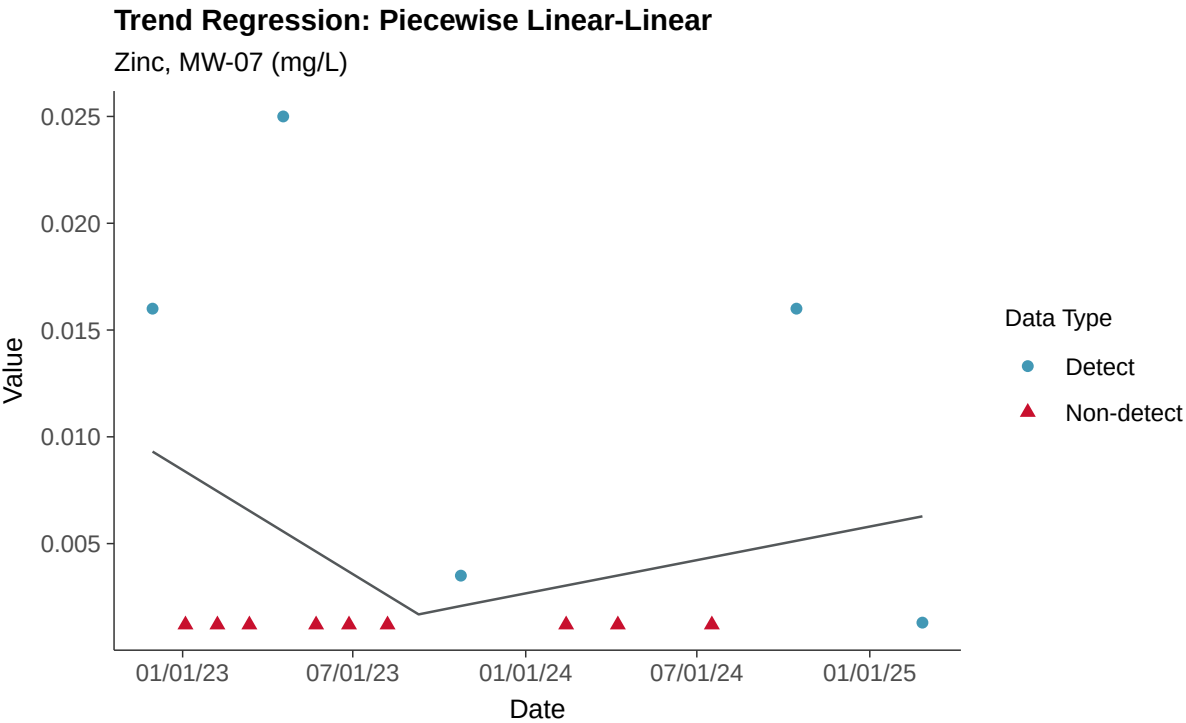
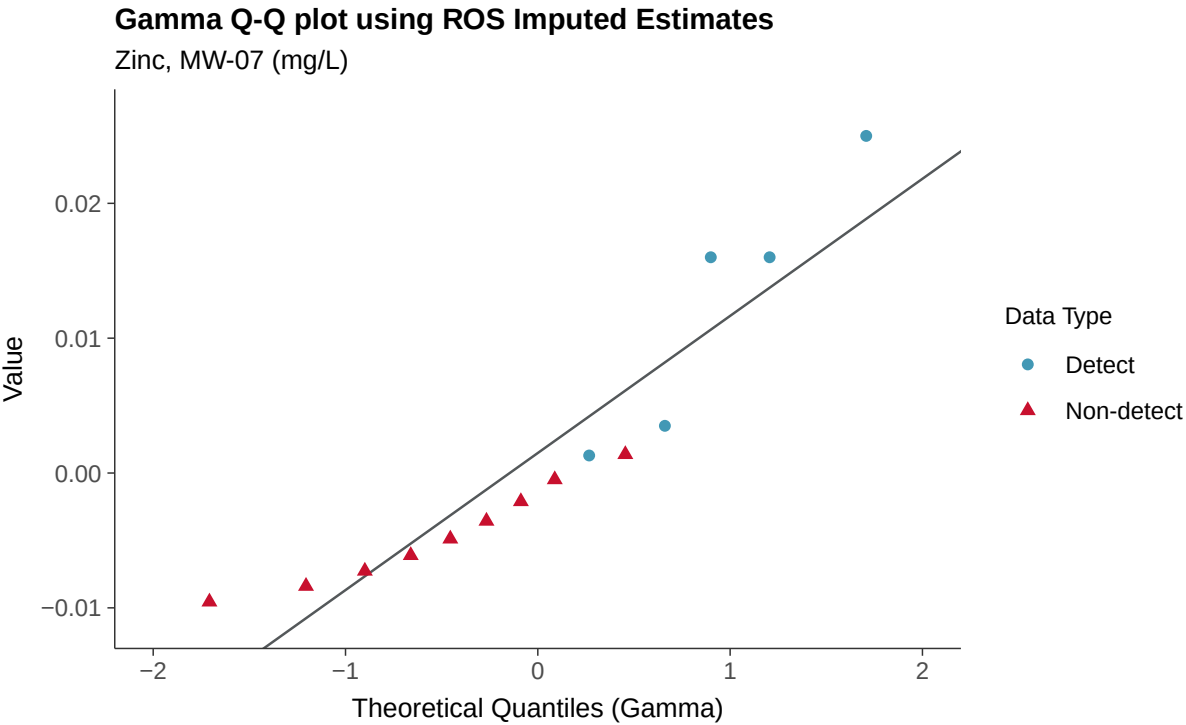
Part 115: Zinc, MW-07

ID: 17_1_5_129





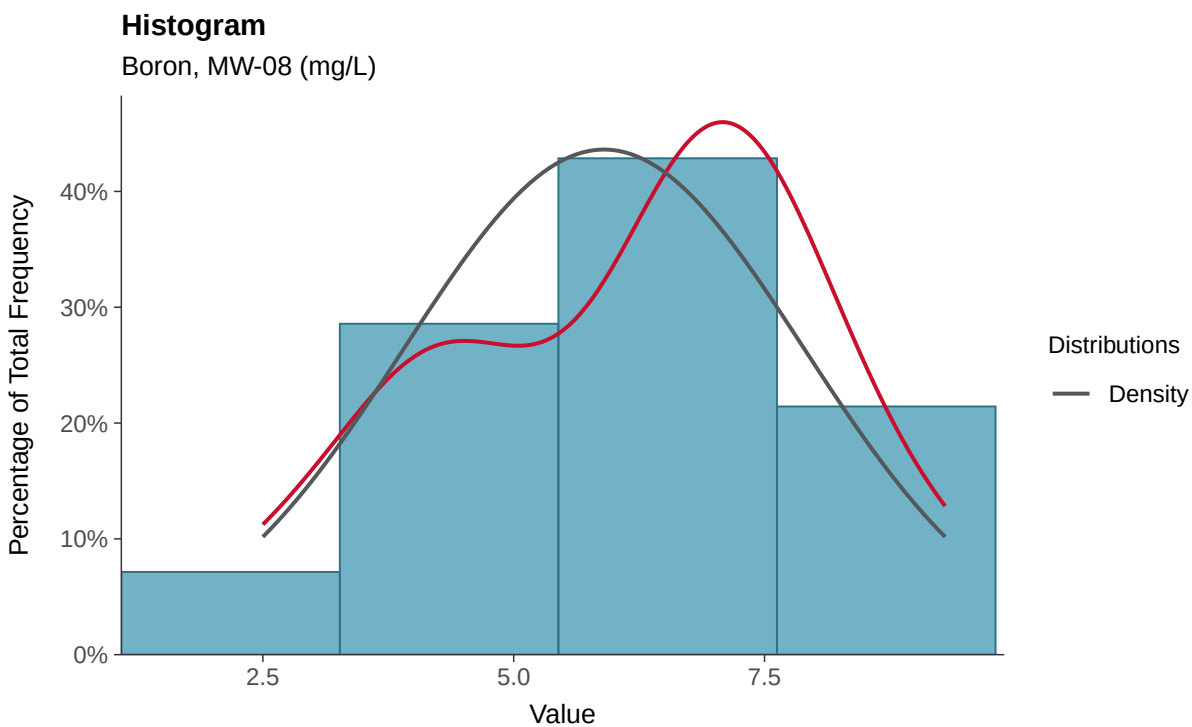
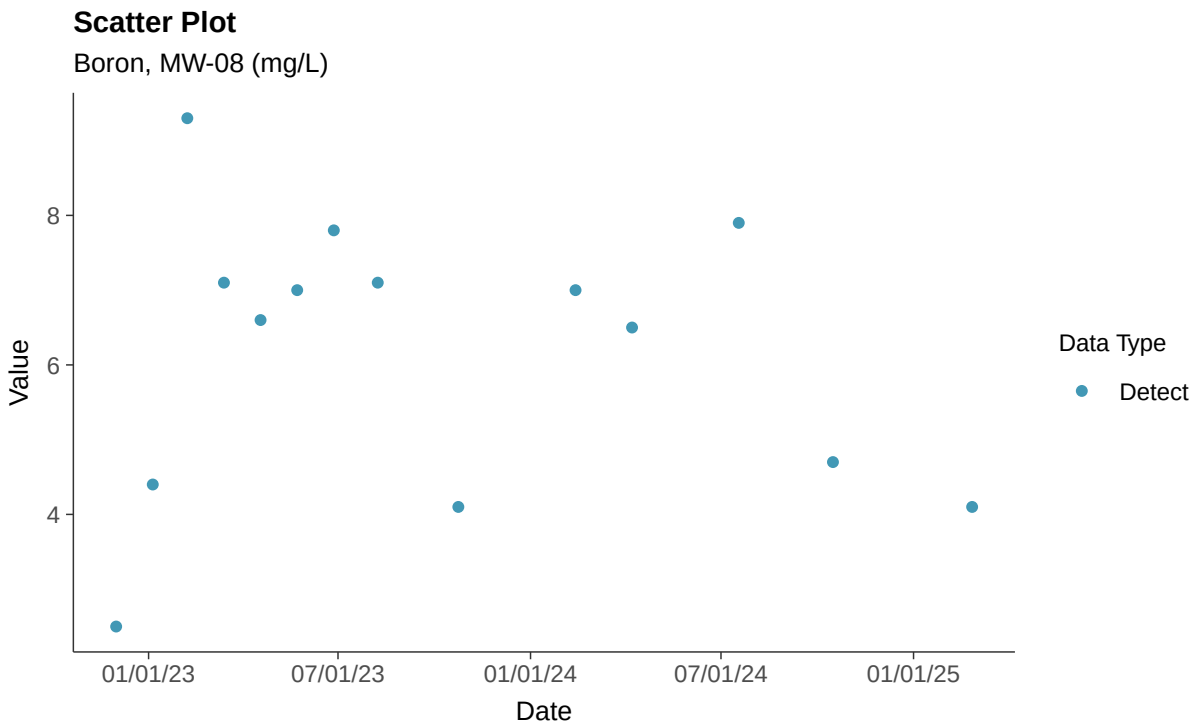


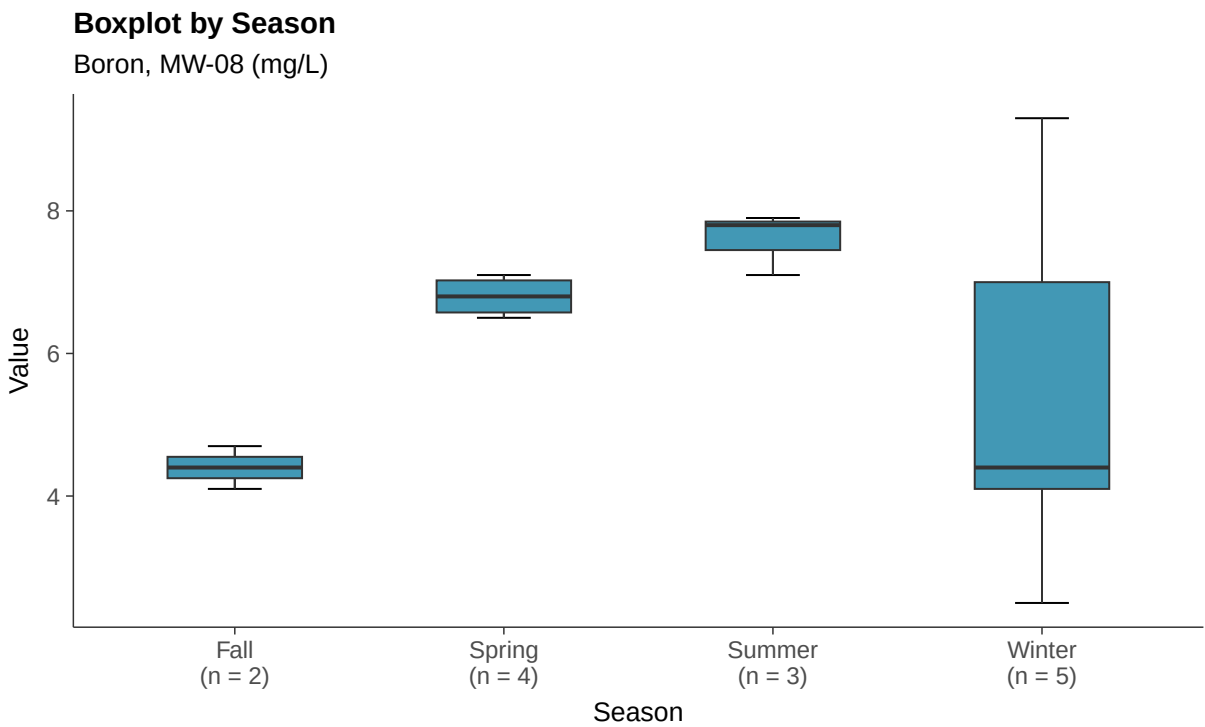
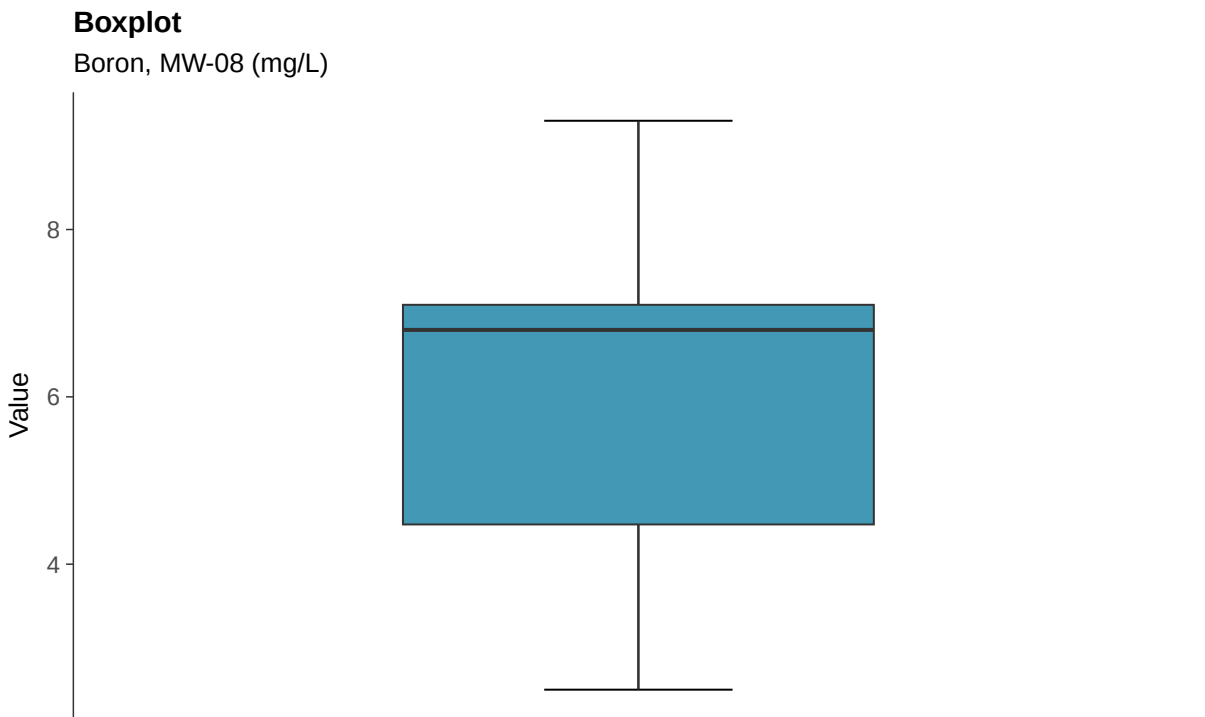


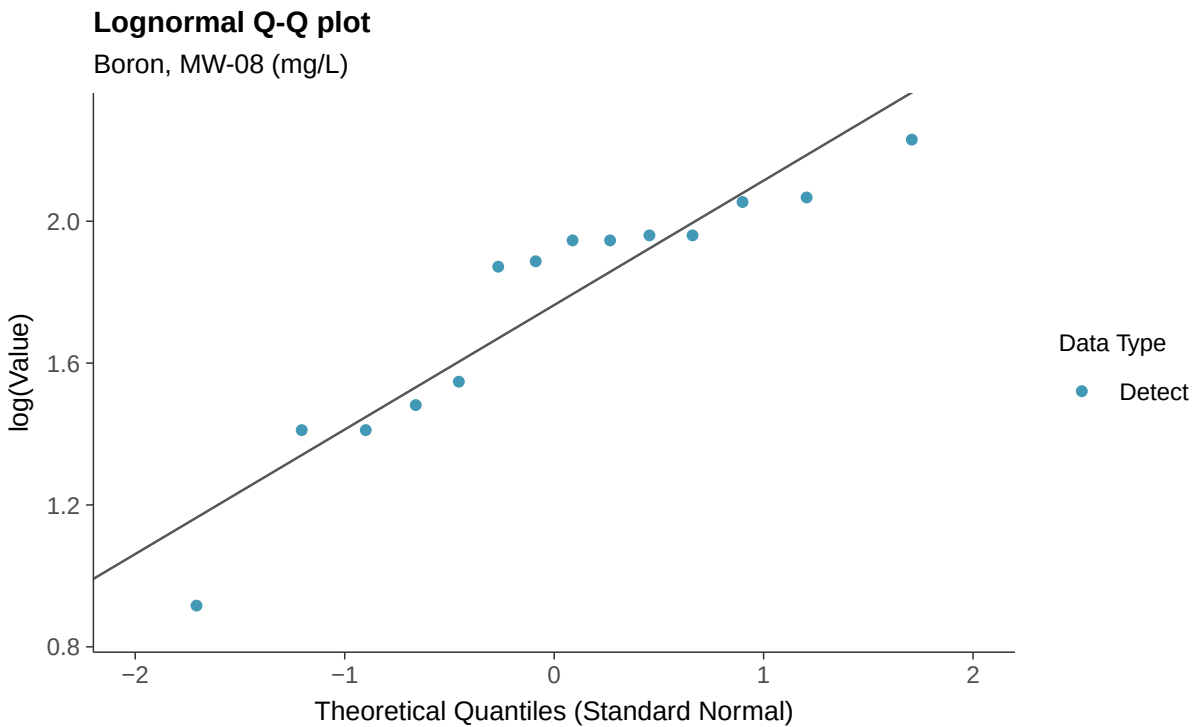
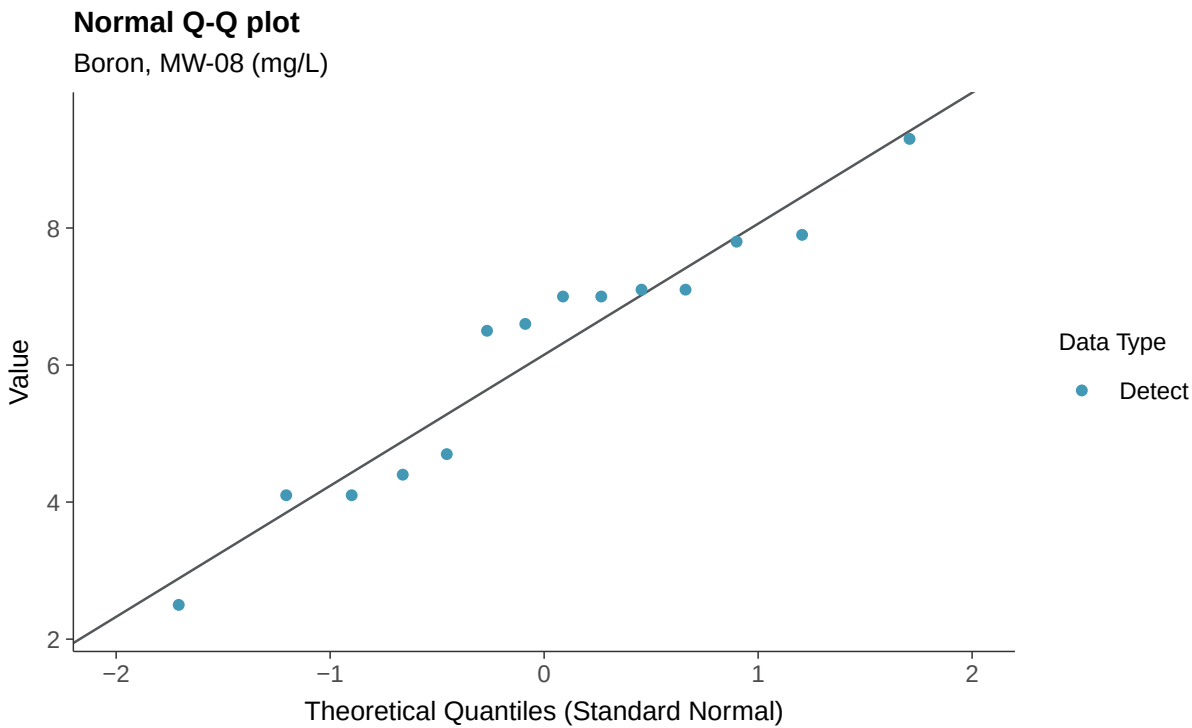


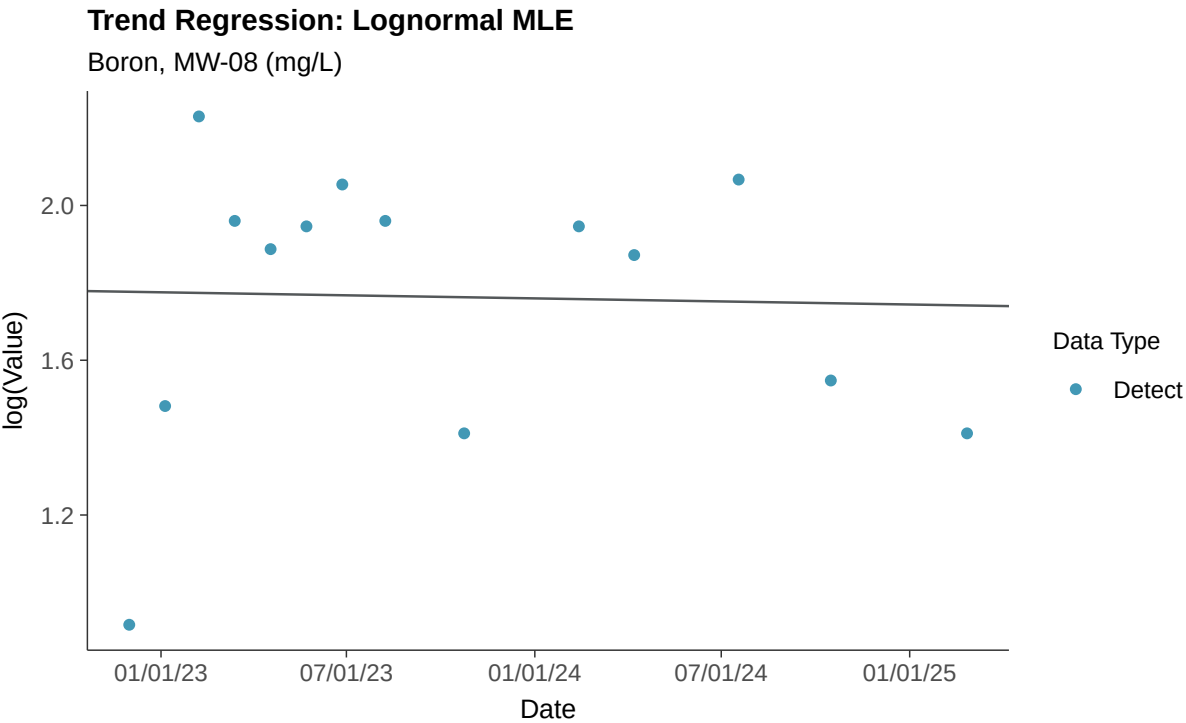
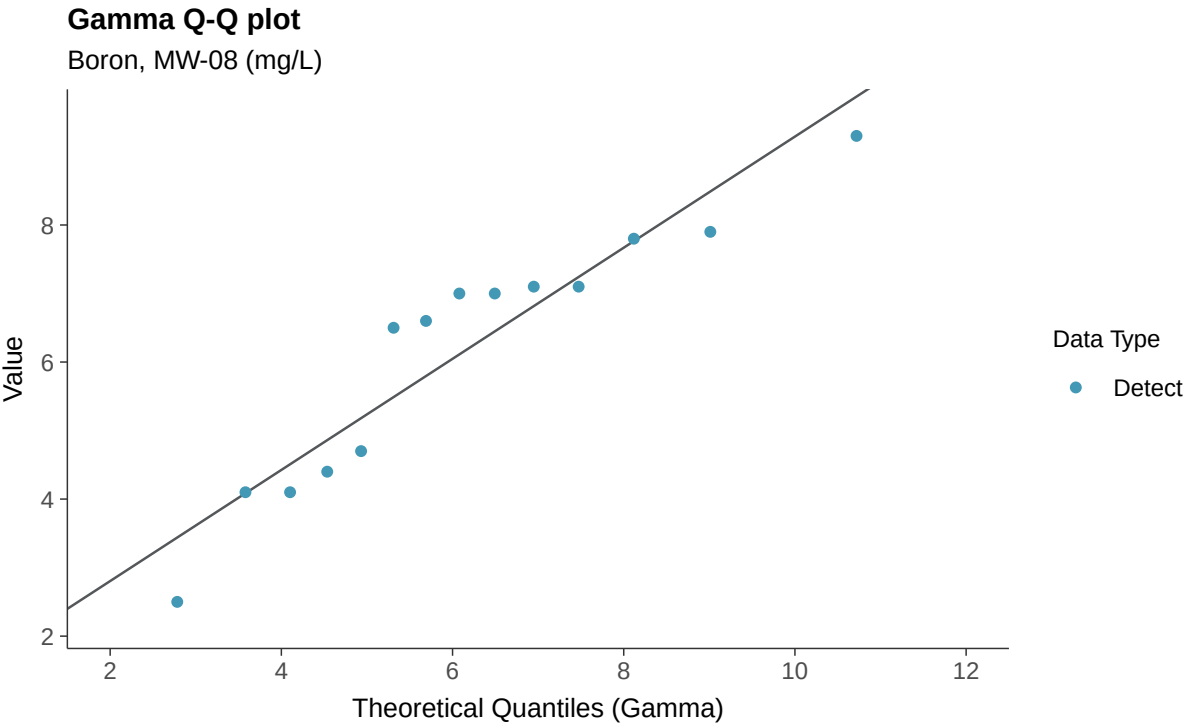
Appendix III: Boron, MW-08

ID: 18_1_3_105





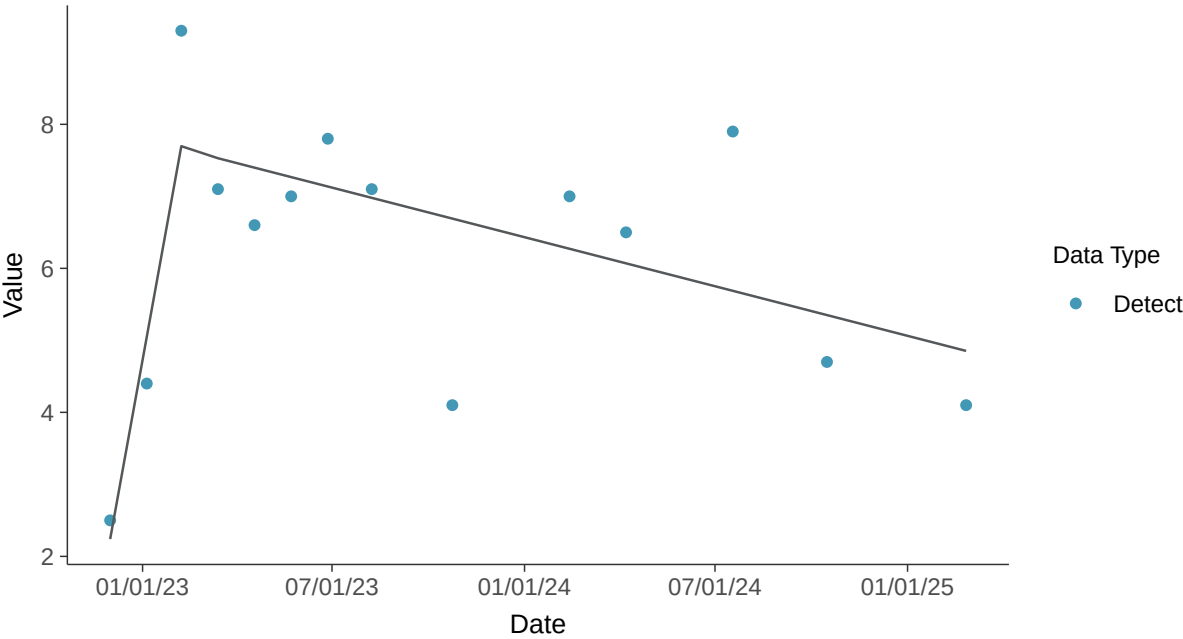






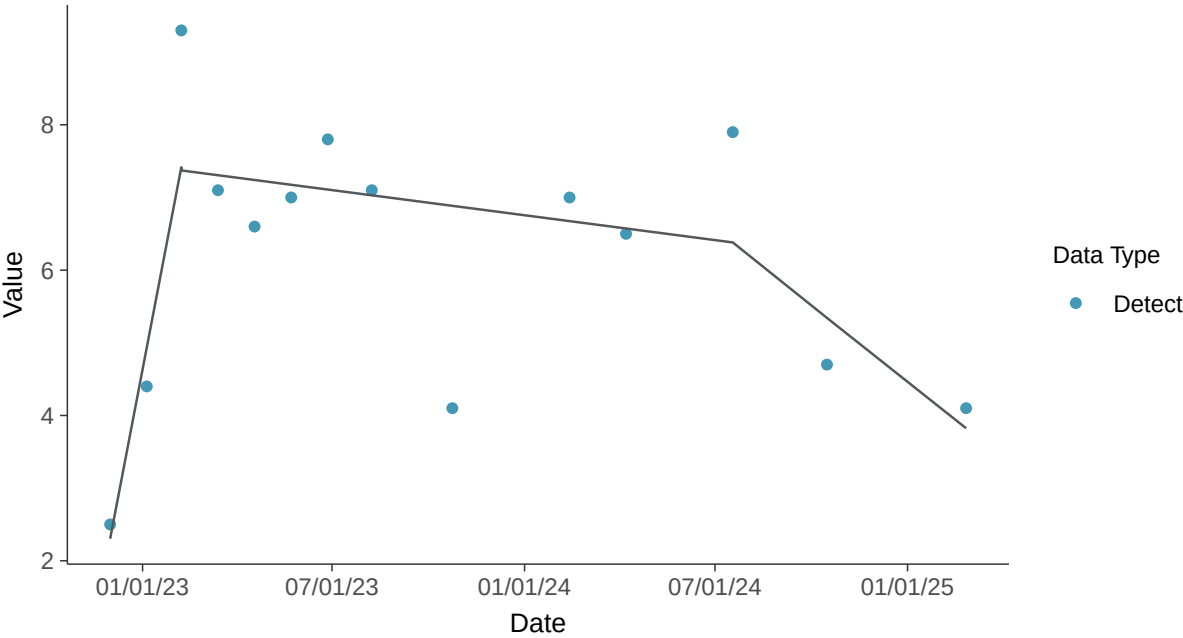
Trend Regression: Piecewise Linear-Linear

Boron, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

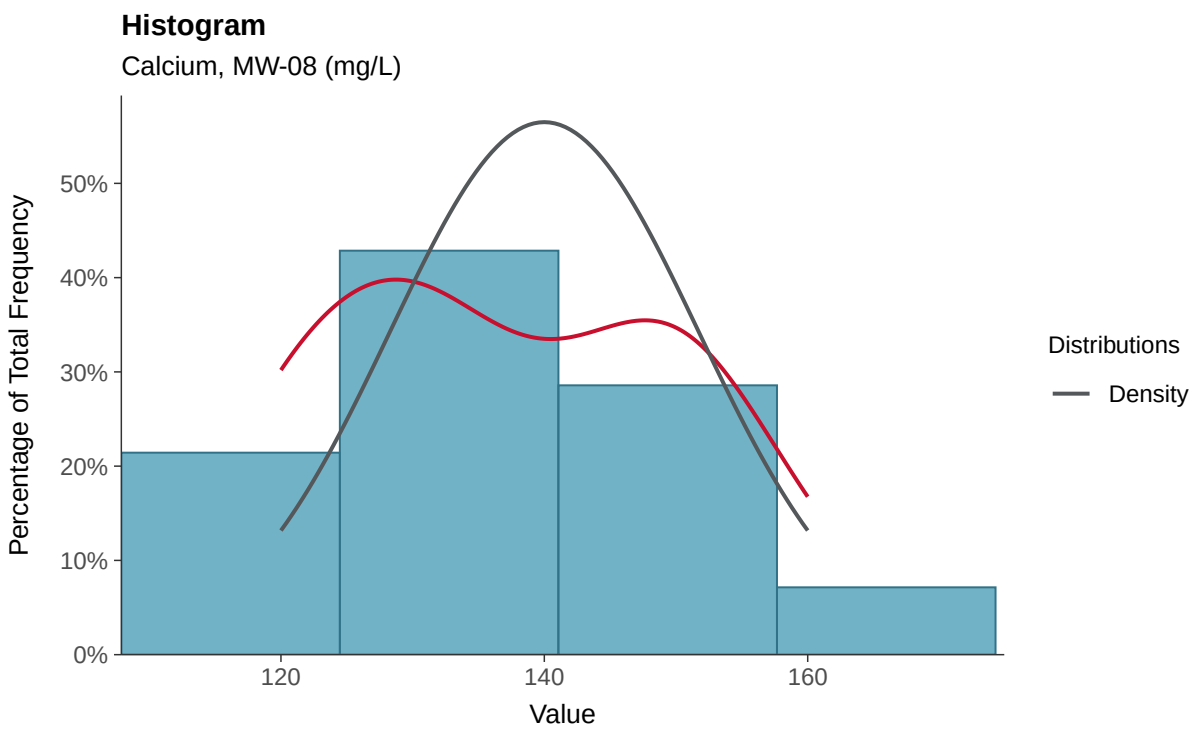
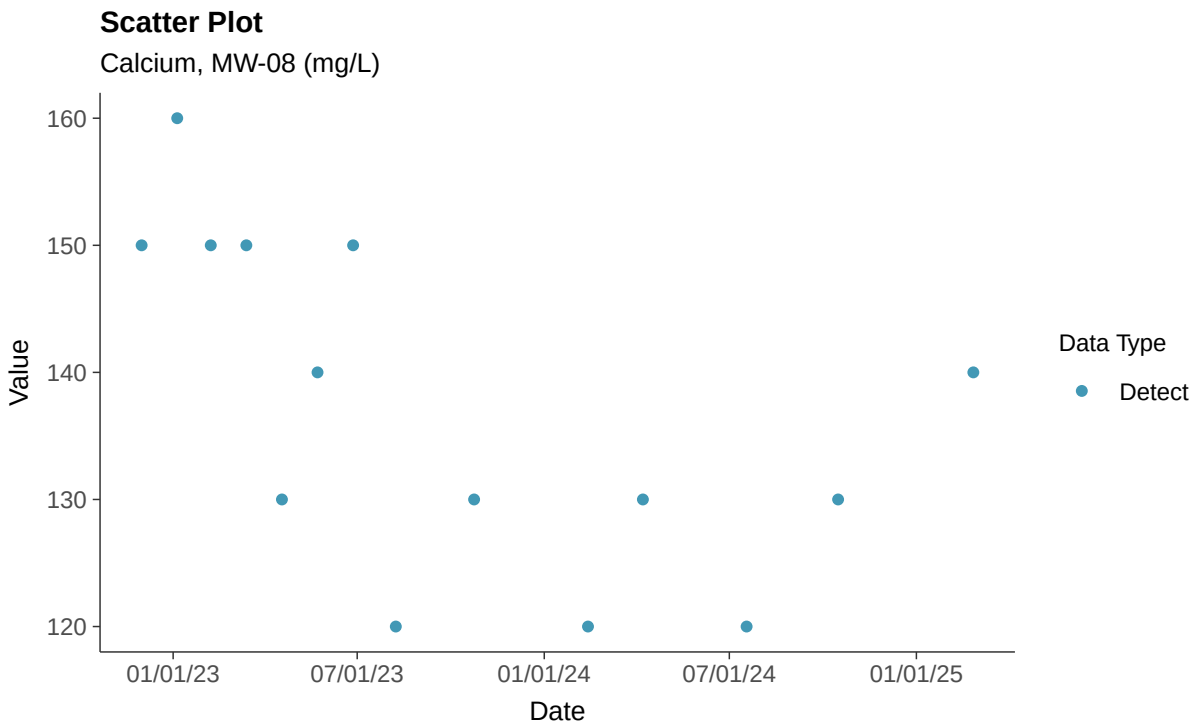
Boron, MW-08 (mg/L)

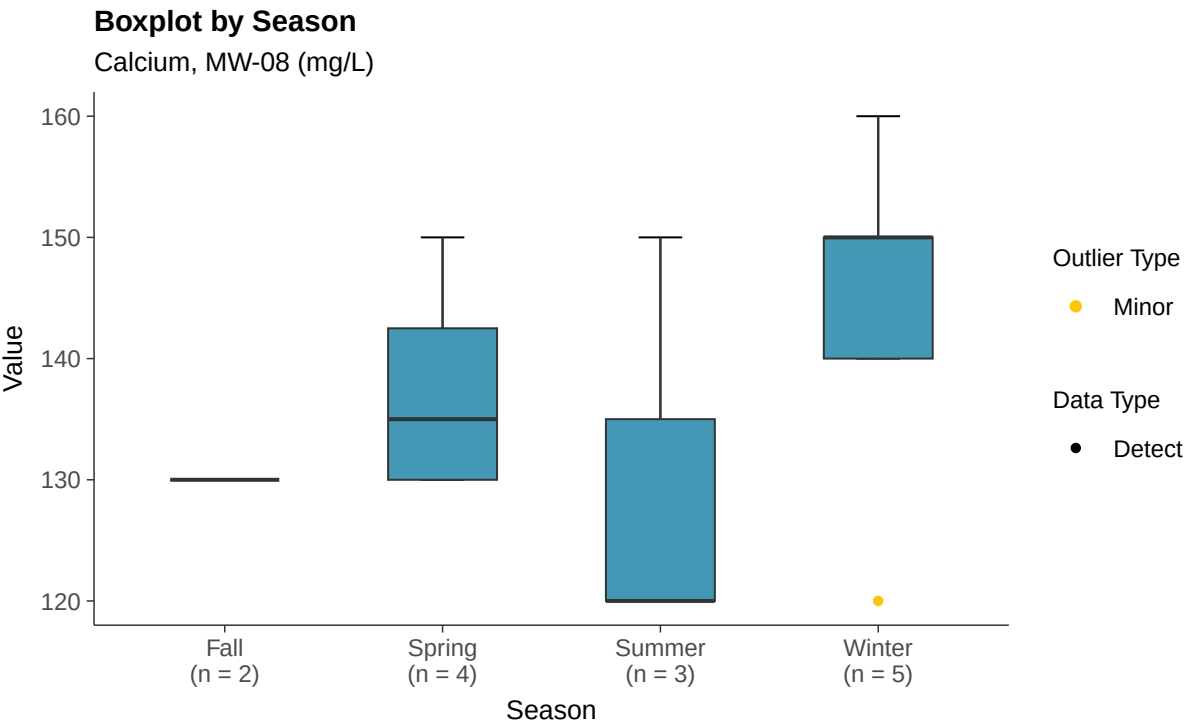
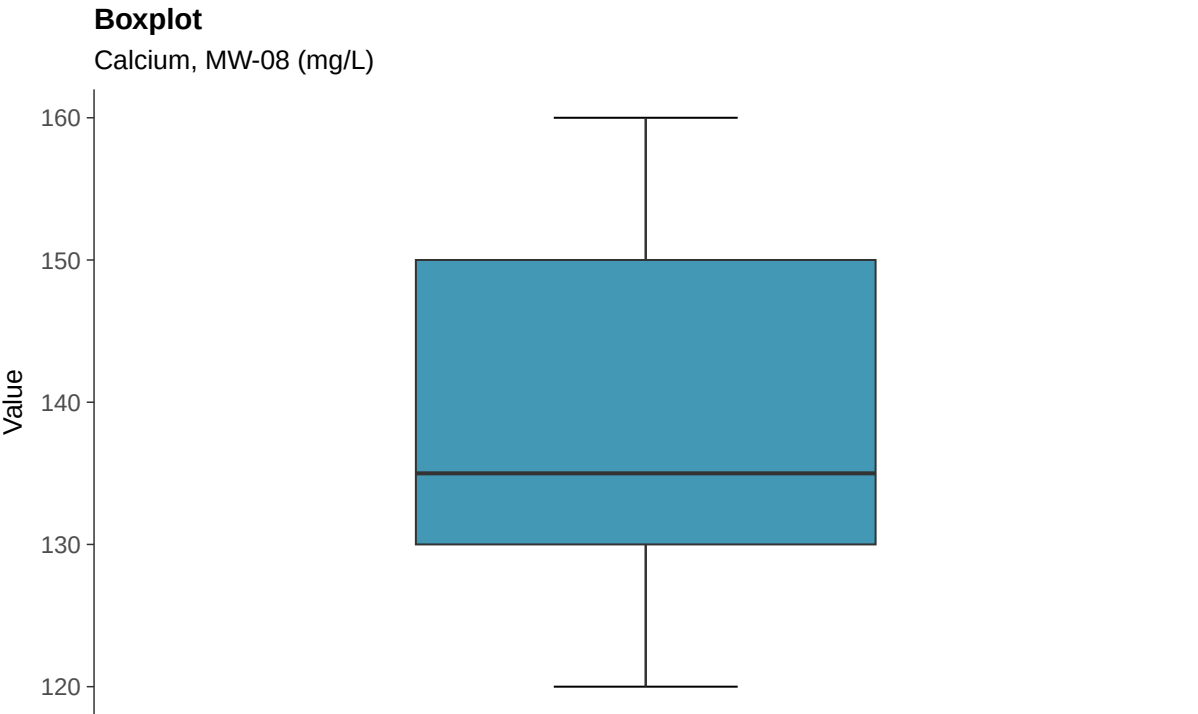


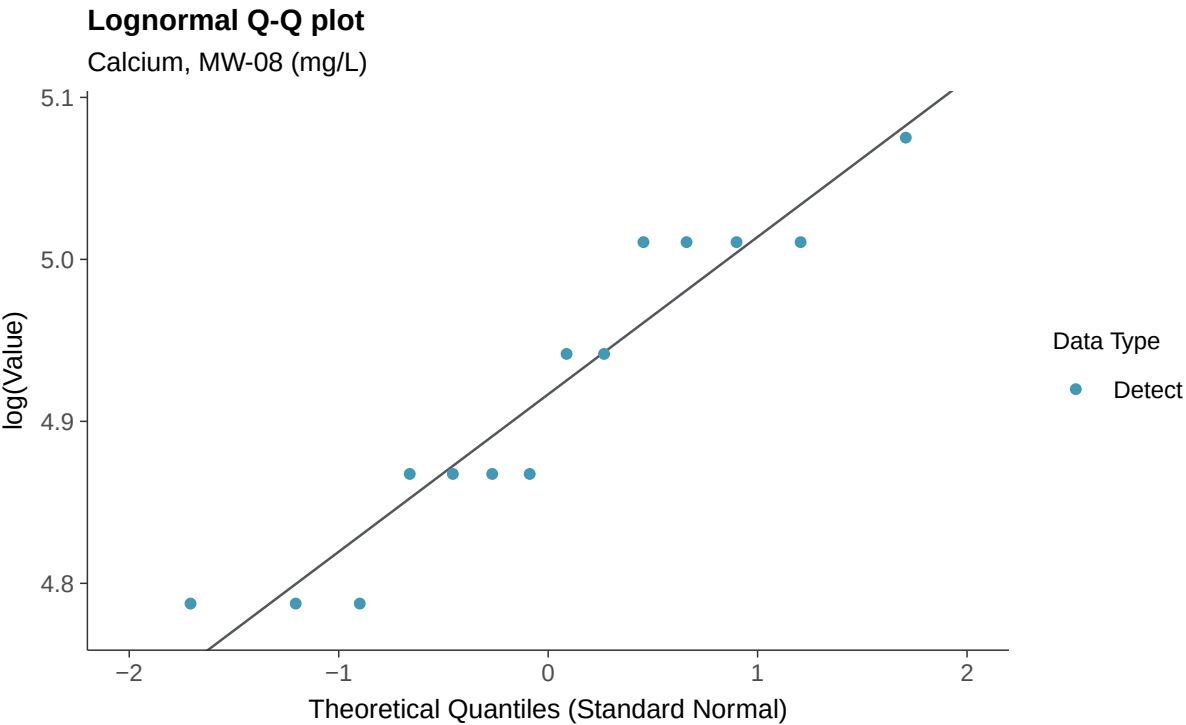
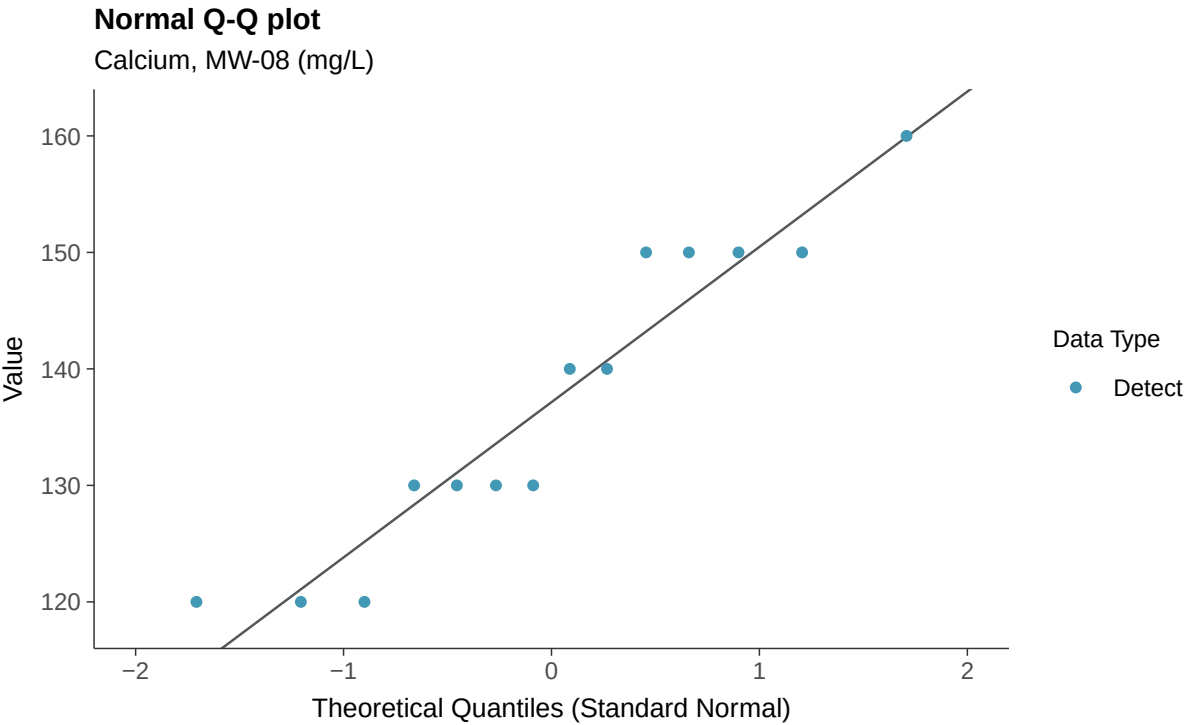


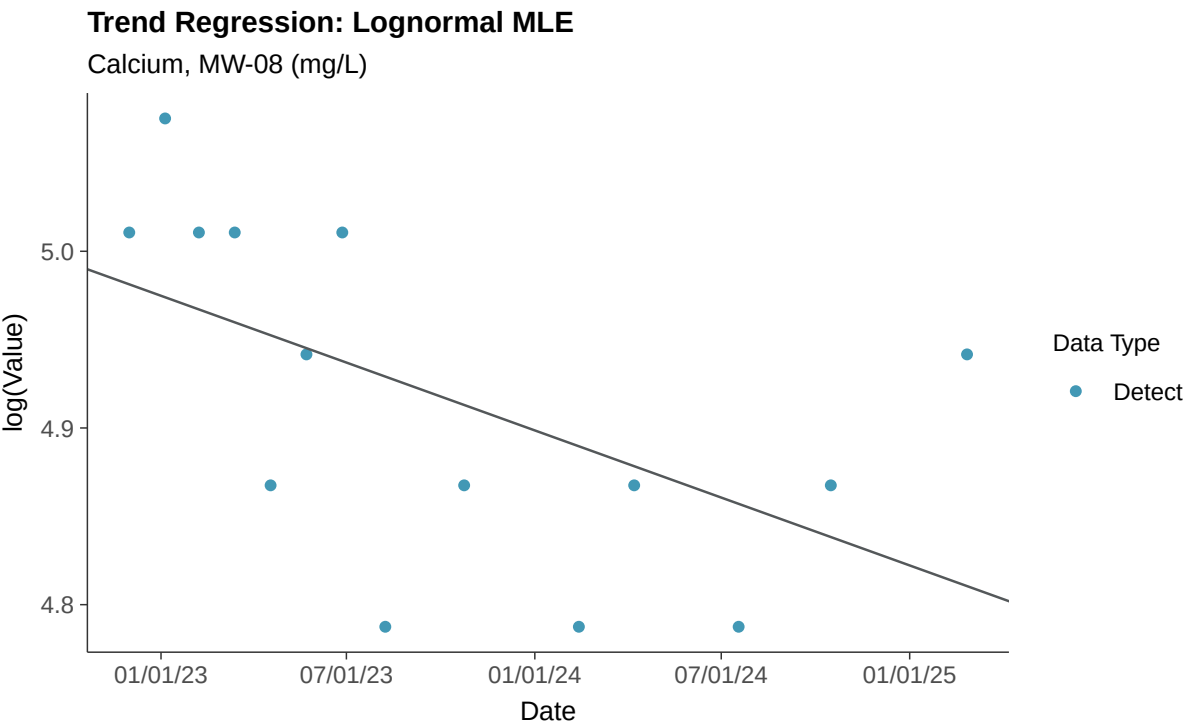
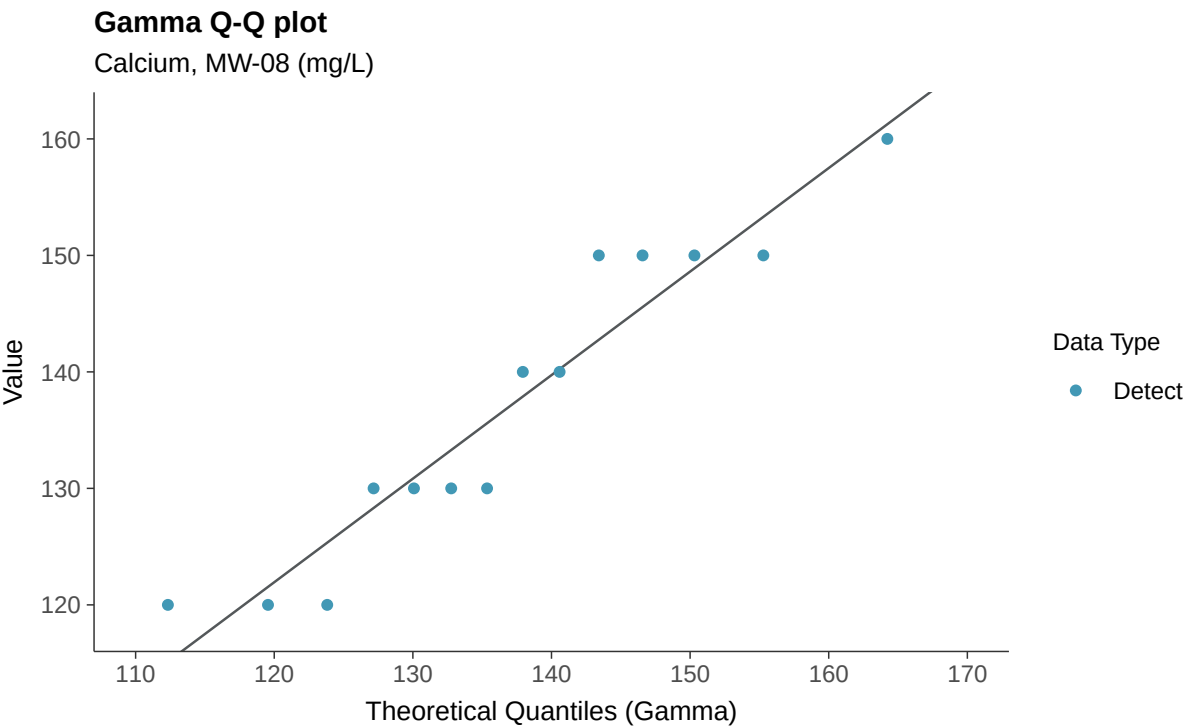
Appendix III: Calcium, MW-08

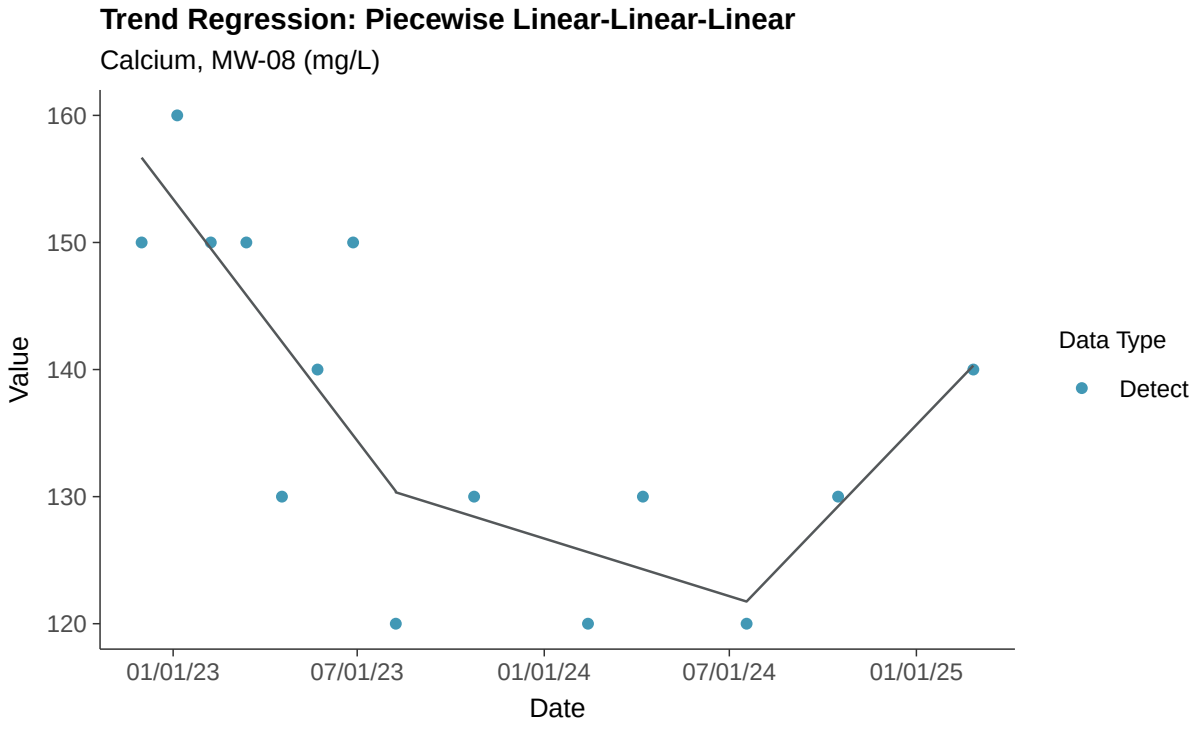
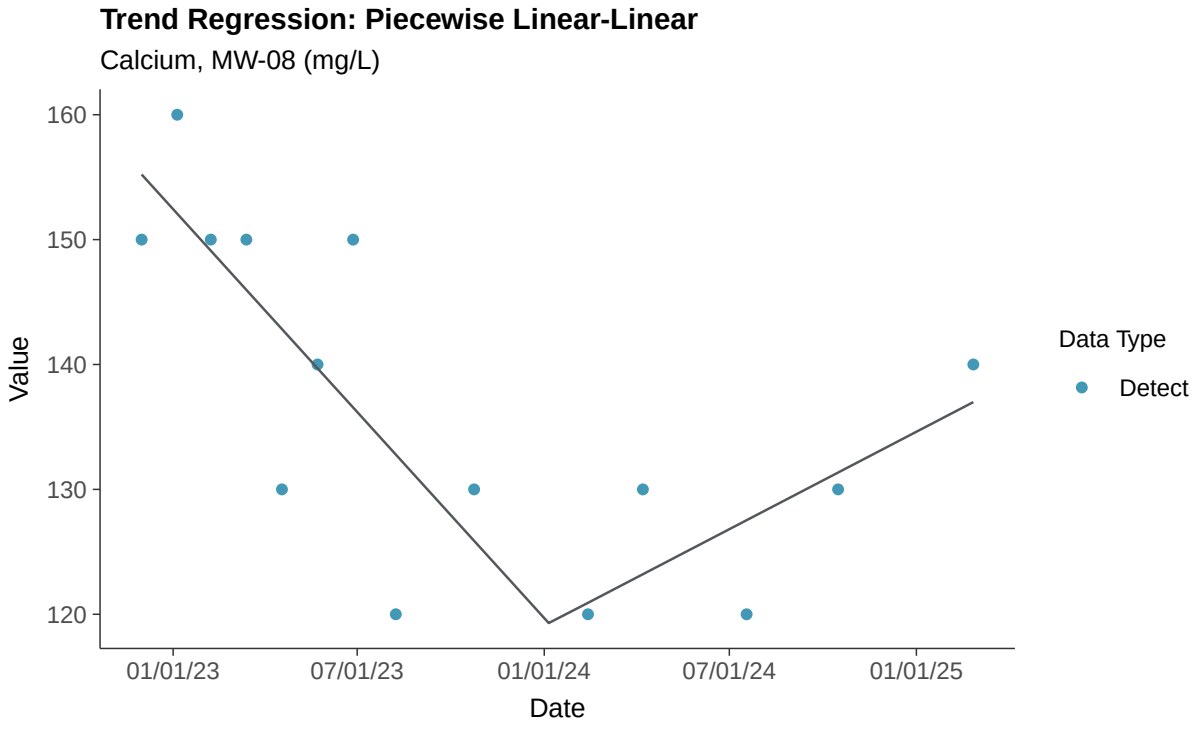
ID: 18_1_3_107







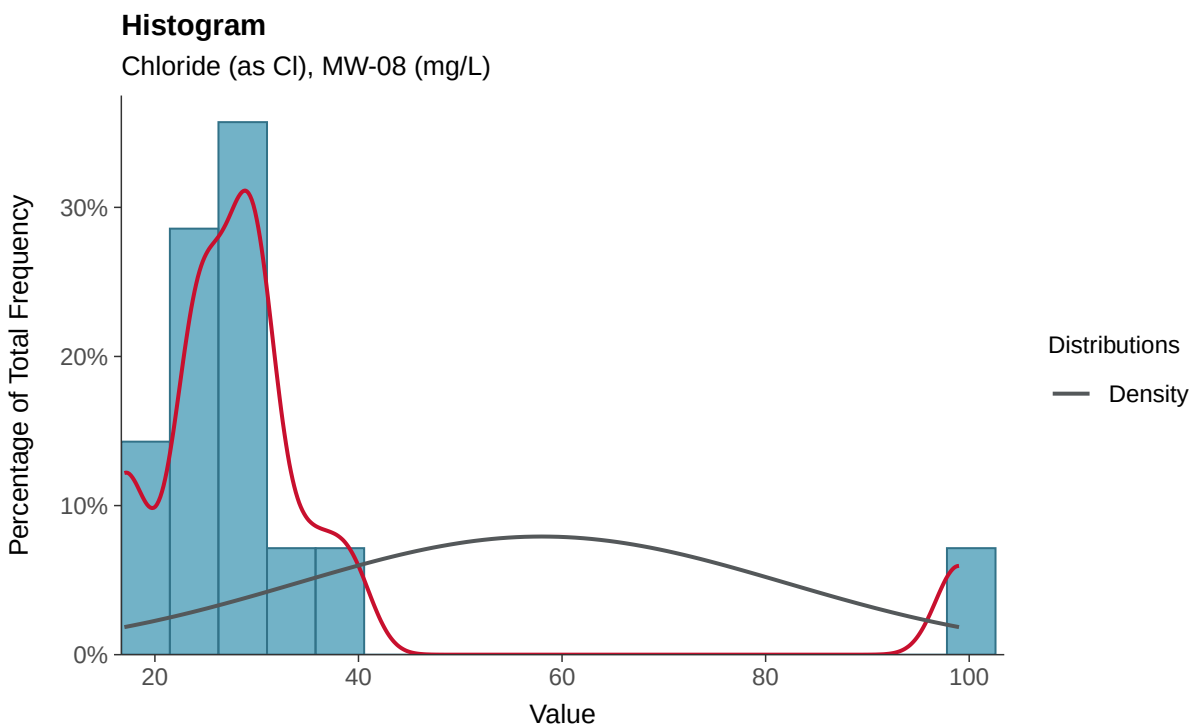
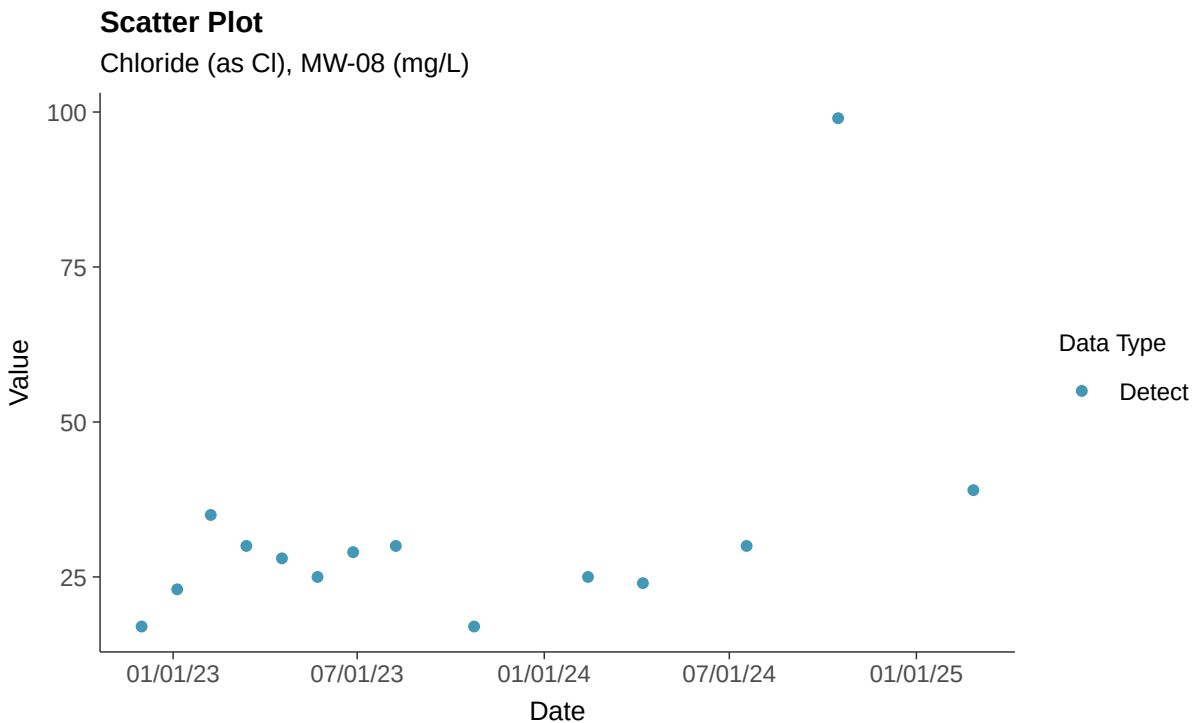


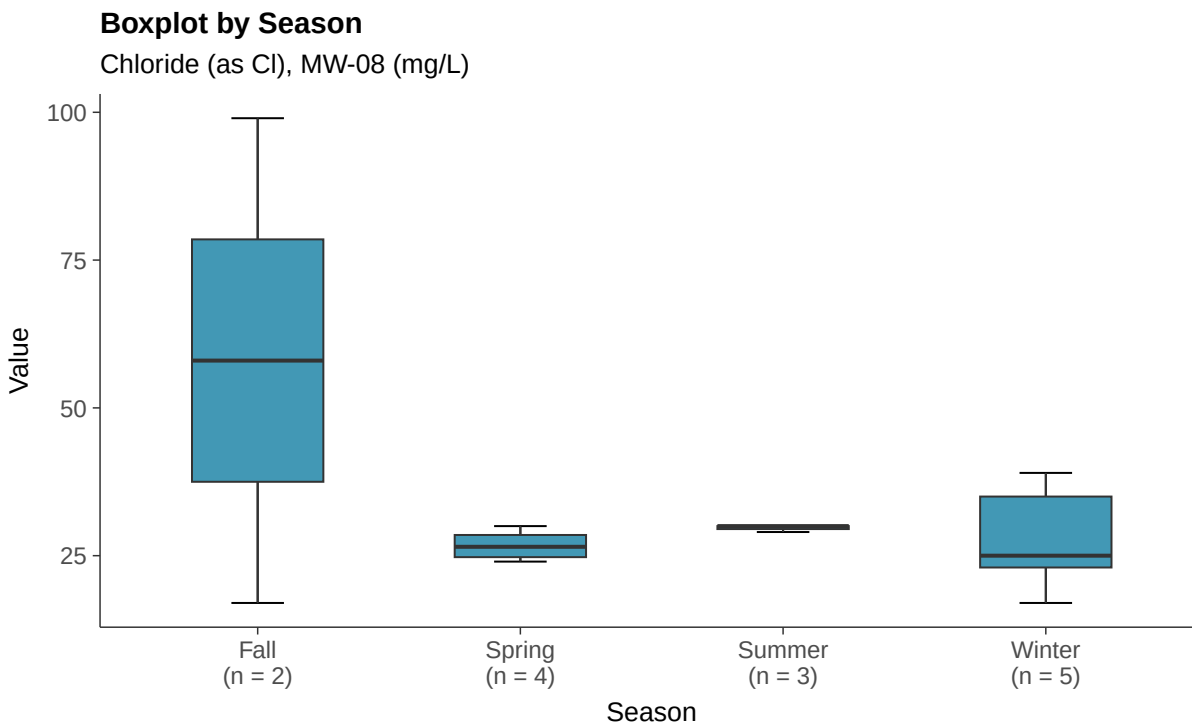
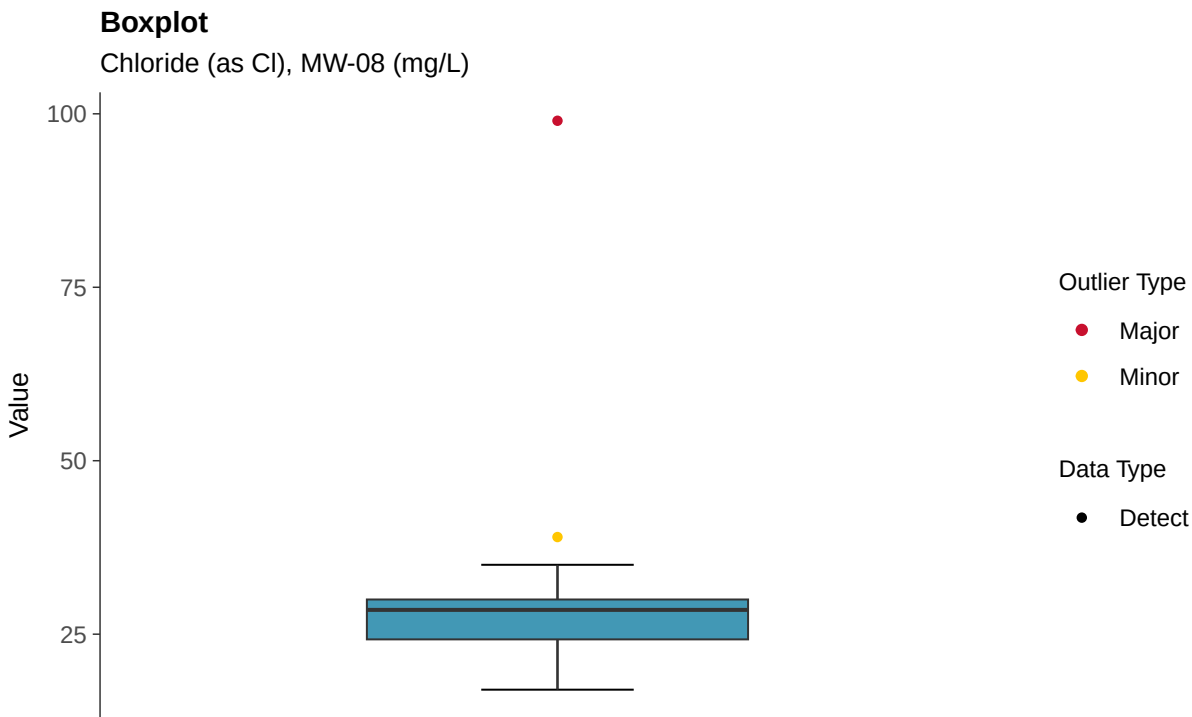


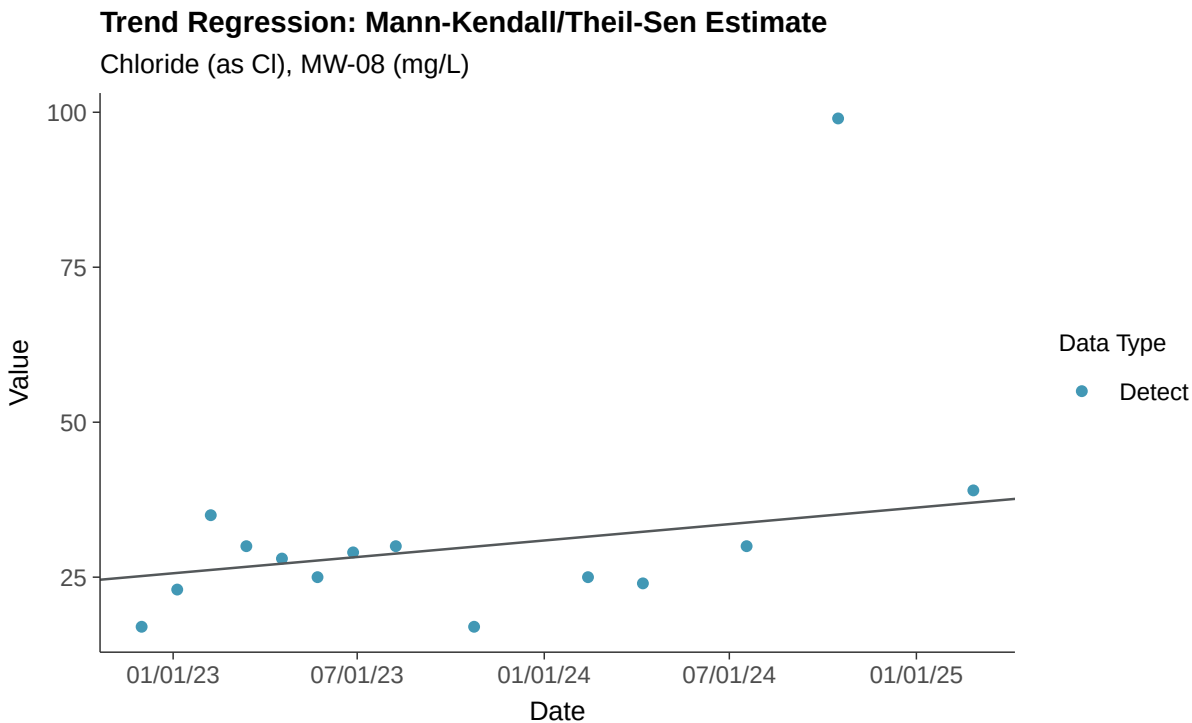
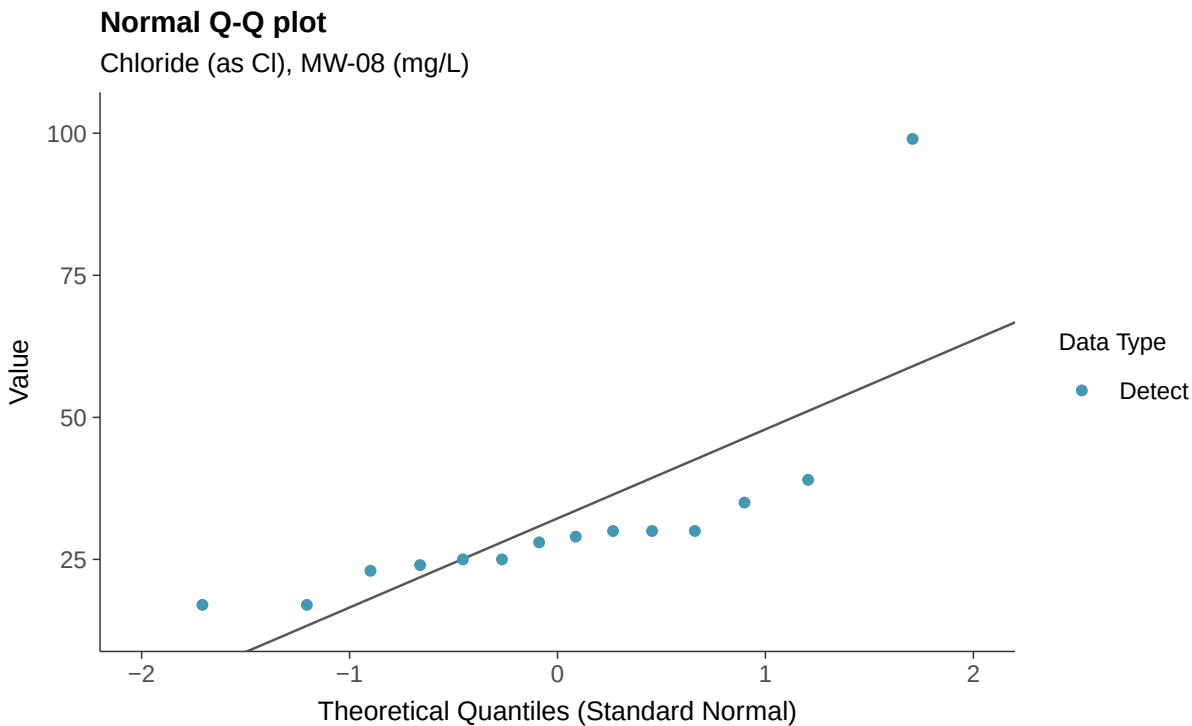


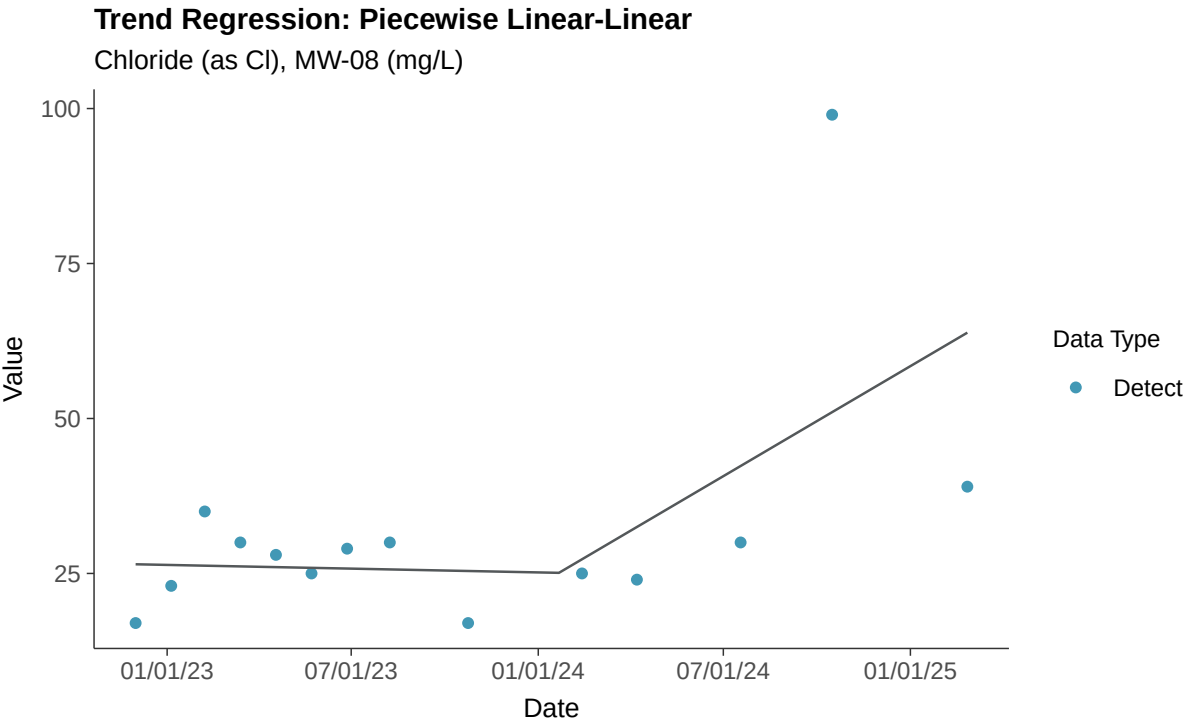
Appendix III: Chloride (as Cl), MW-08

ID: 18_1_3_108





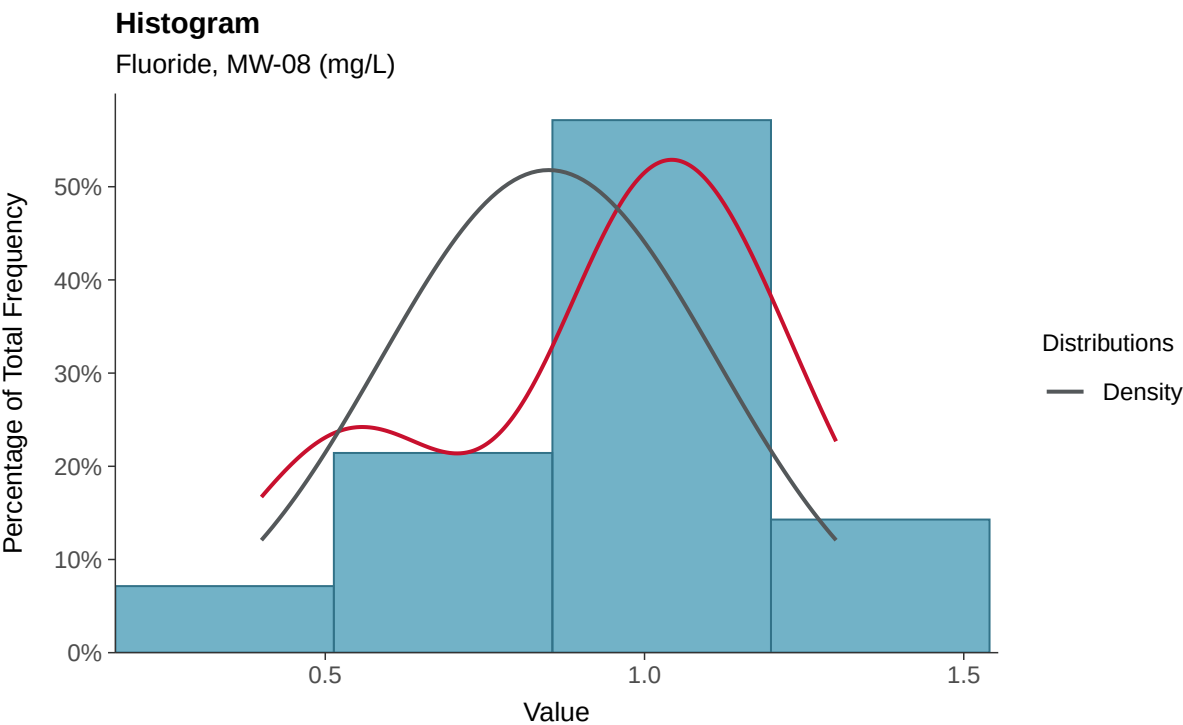
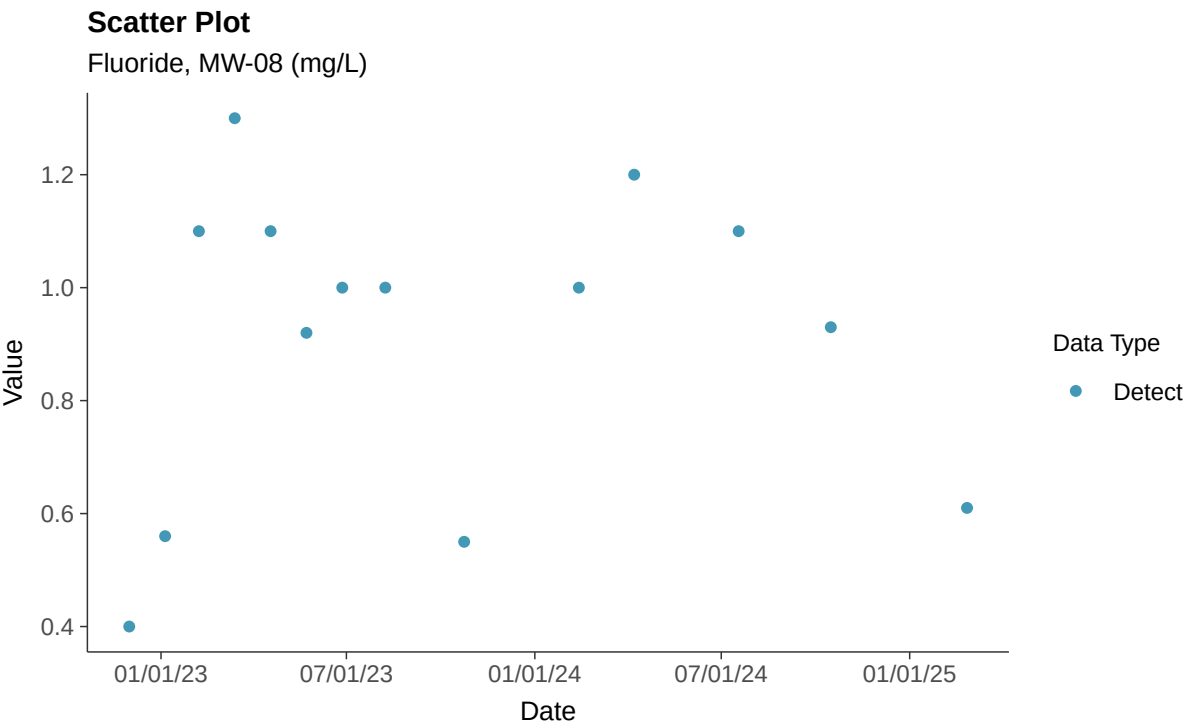


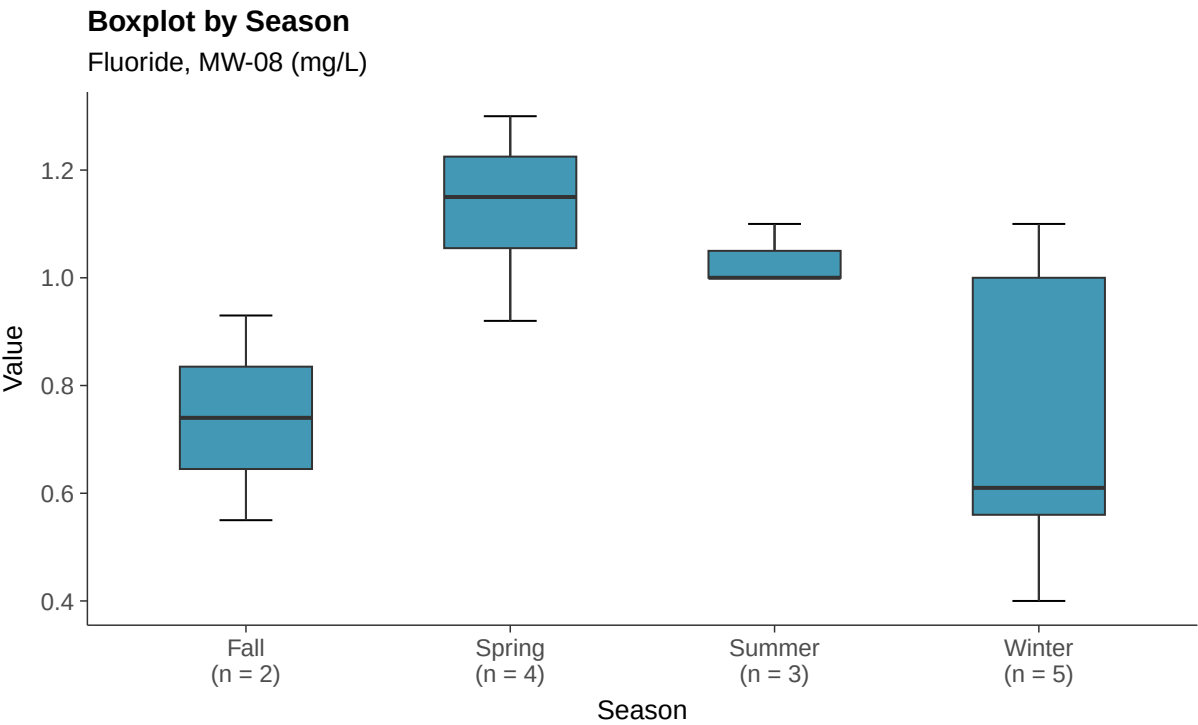
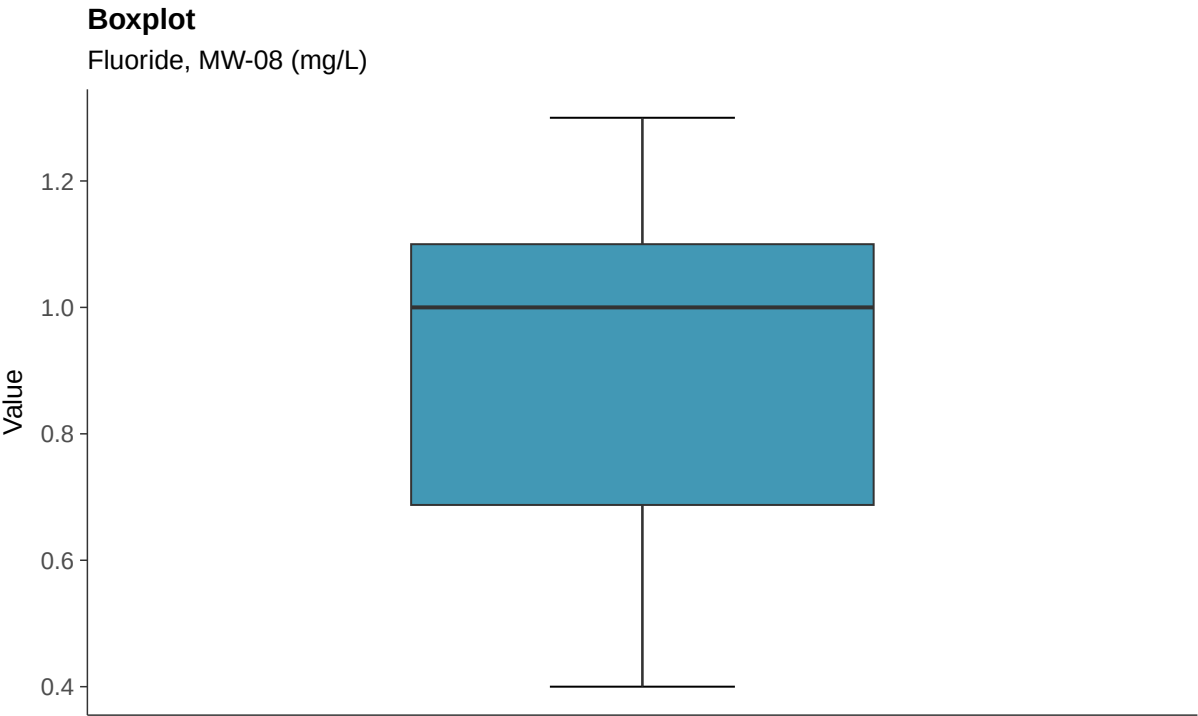


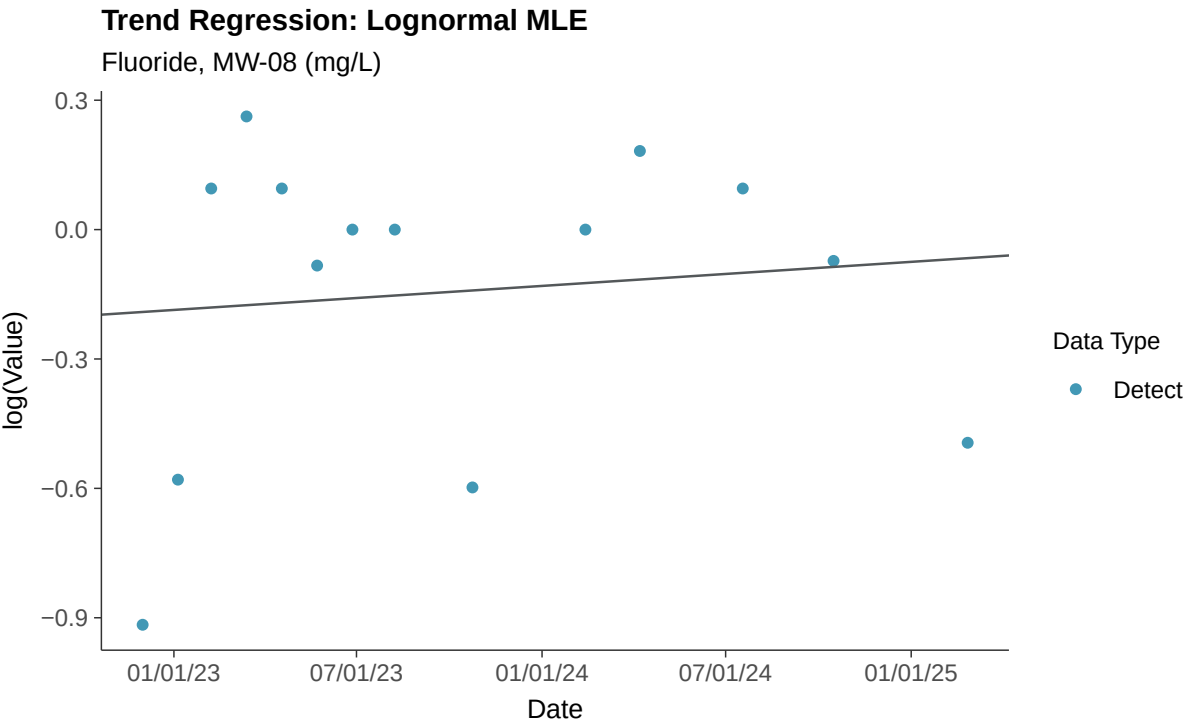
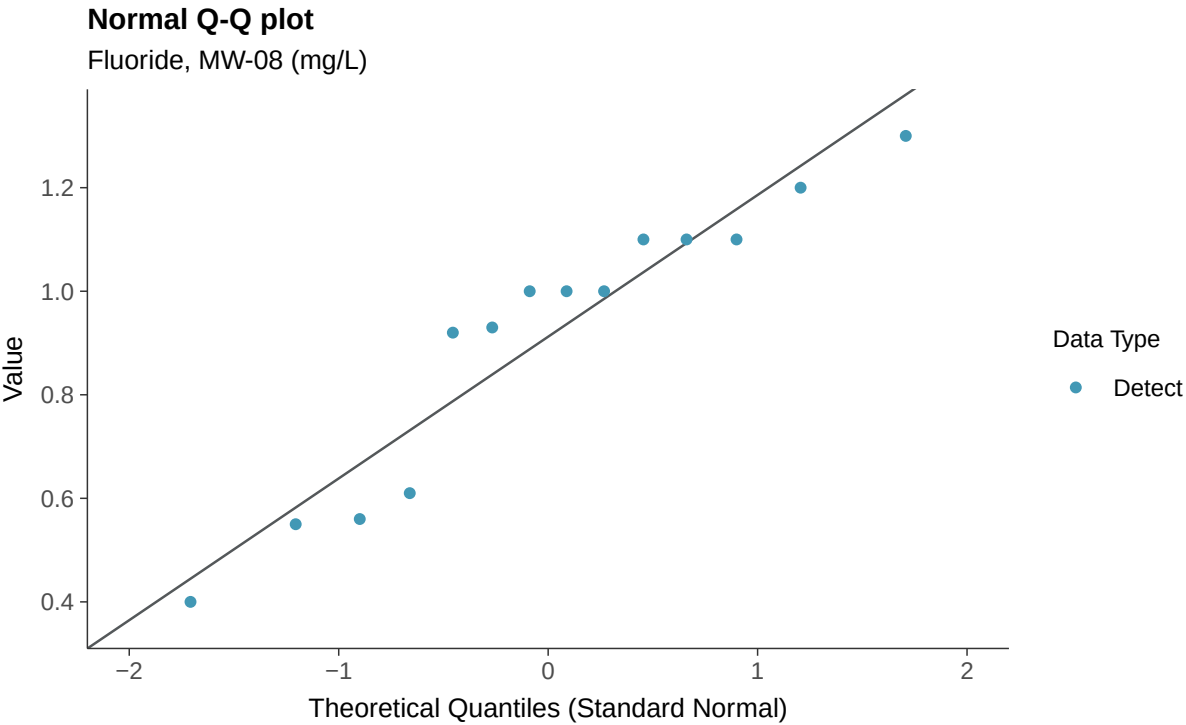


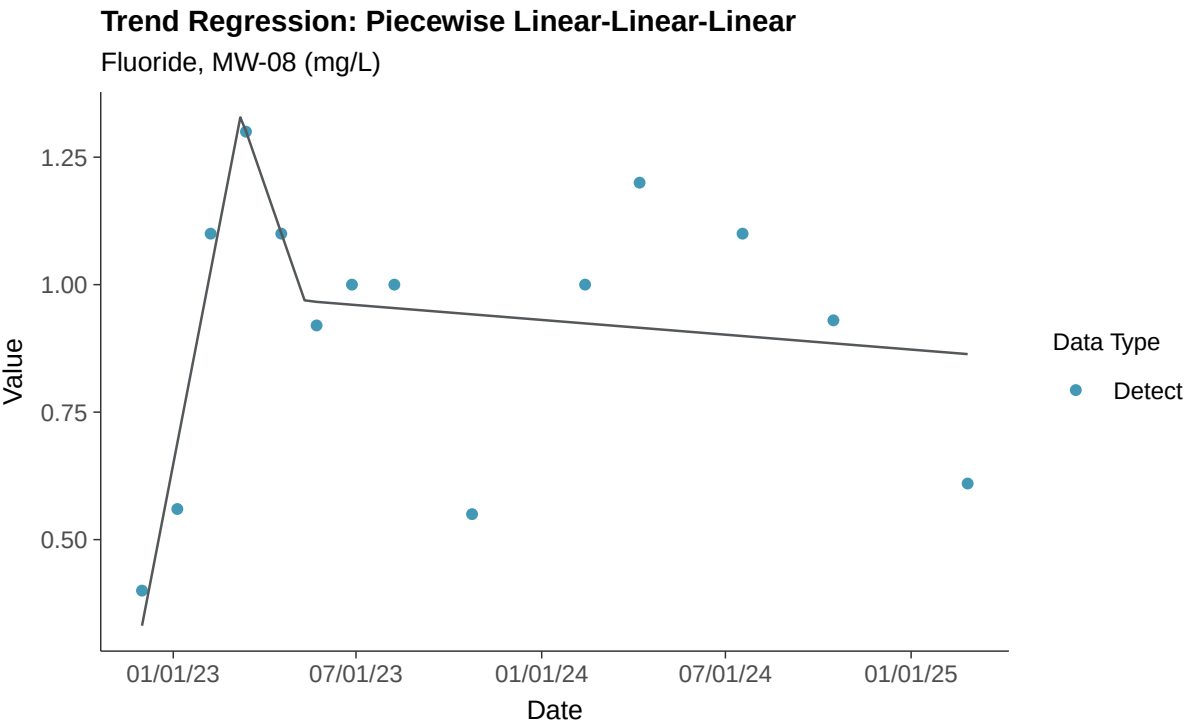
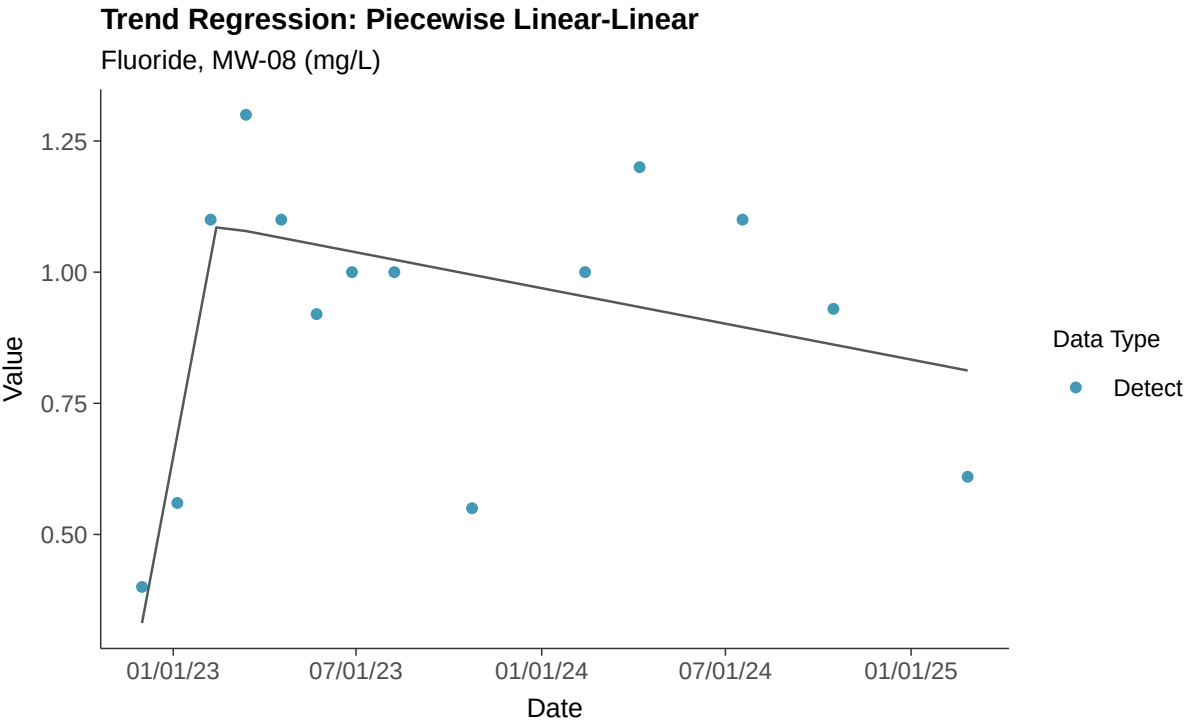
Appendix III: Fluoride, MW-08

ID: 18_1_3_112





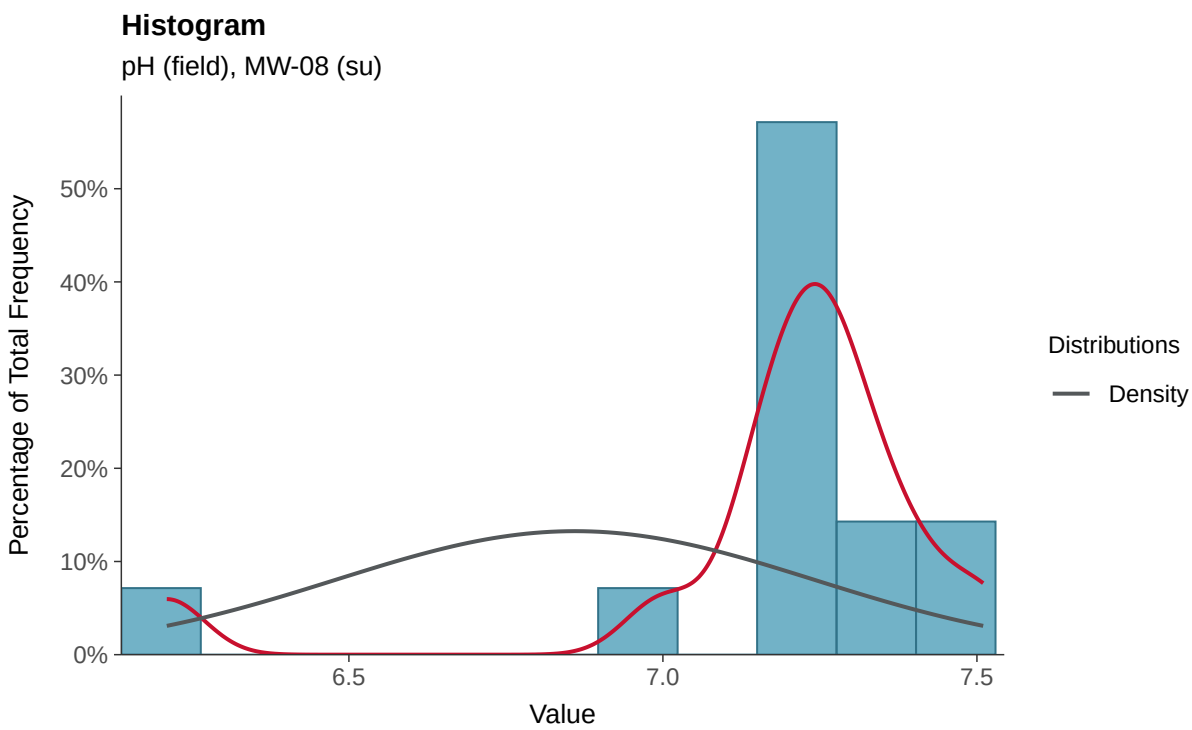
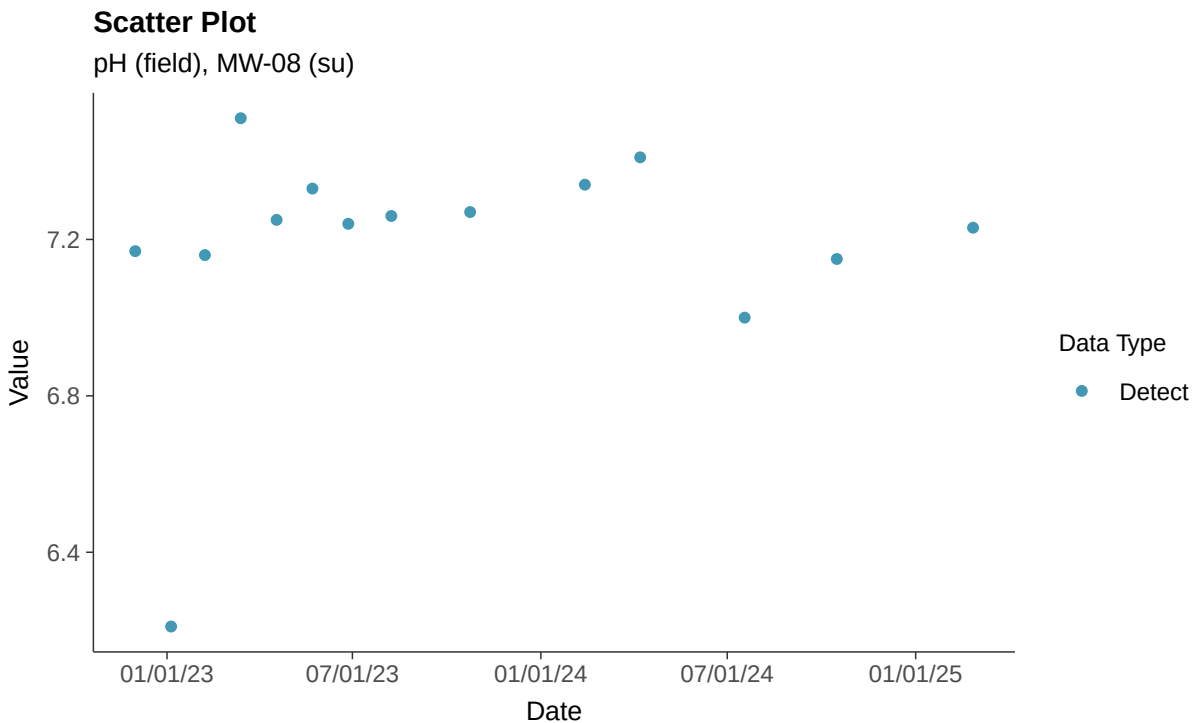


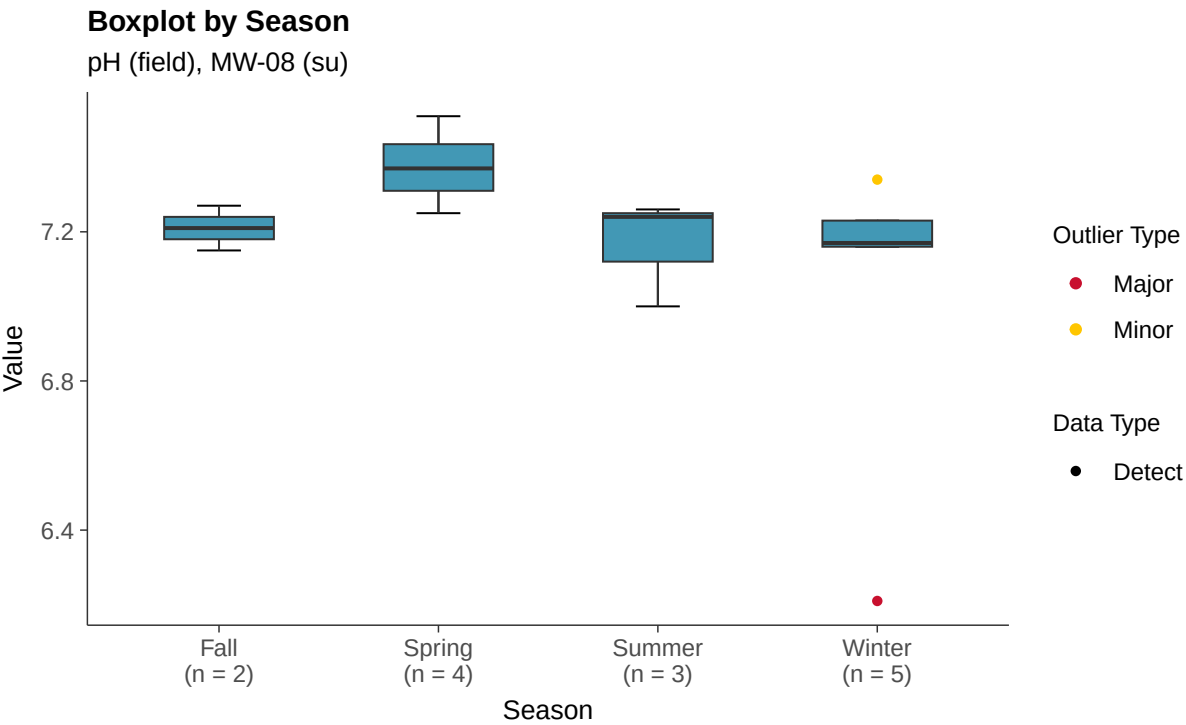
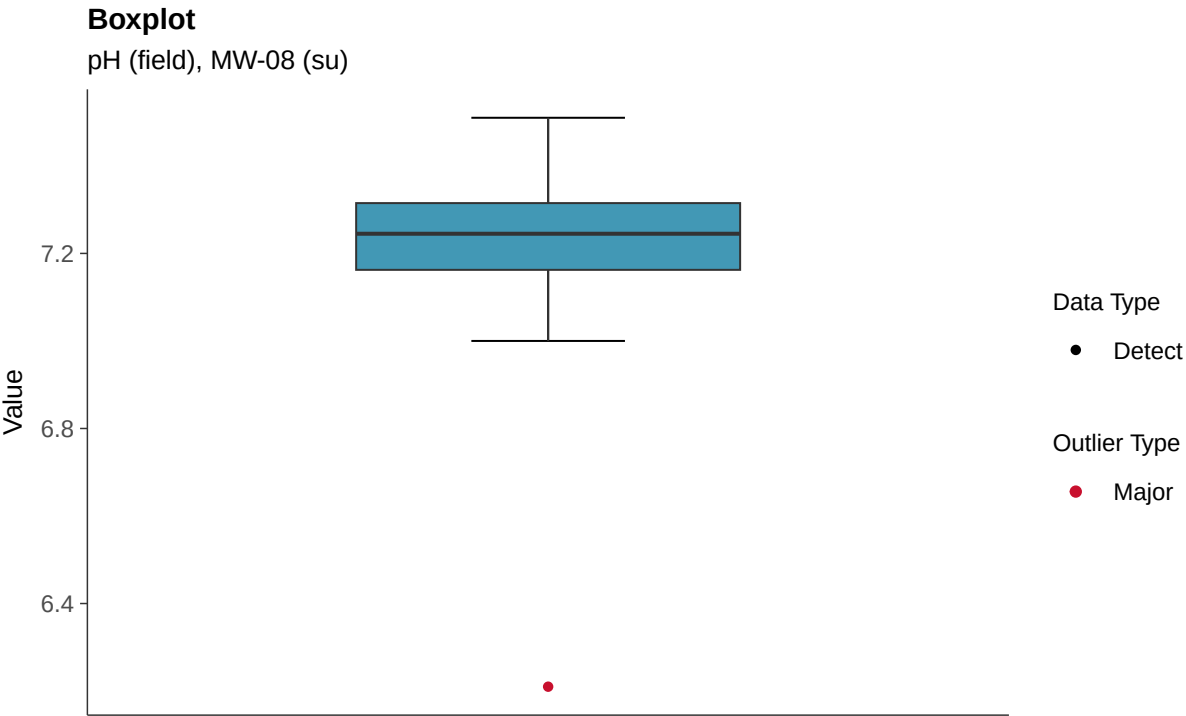


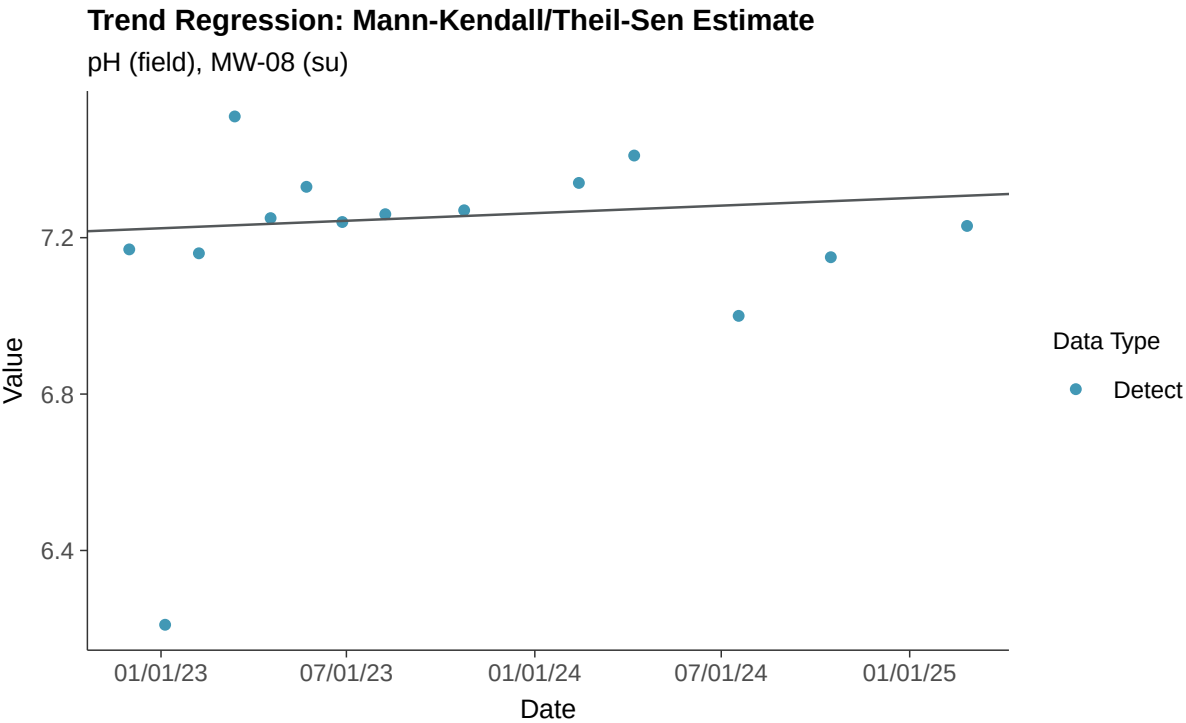
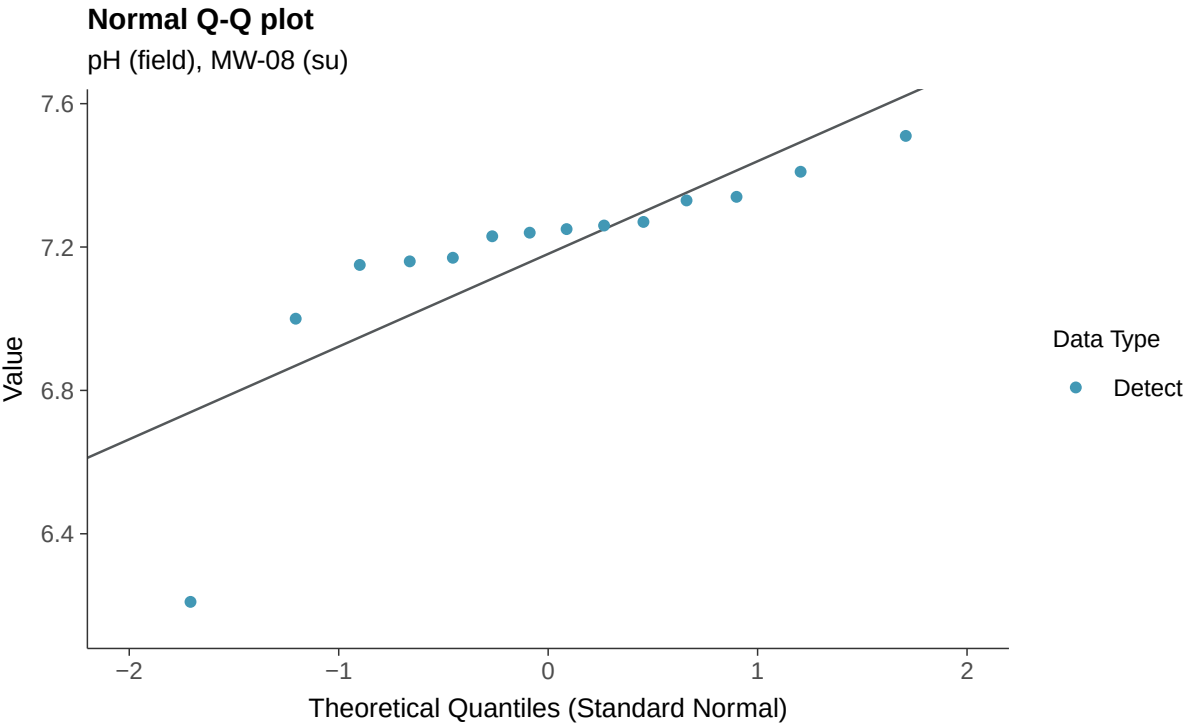


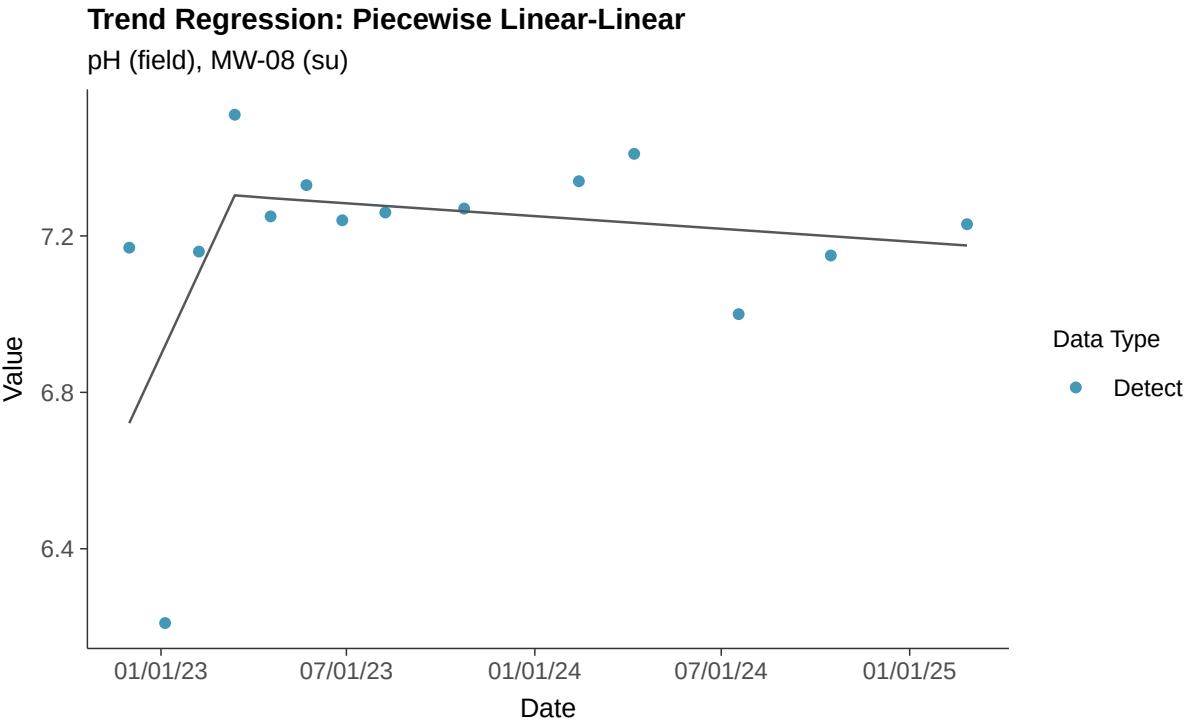
Appendix III: pH (field), MW-08

ID: 18_1_3_120





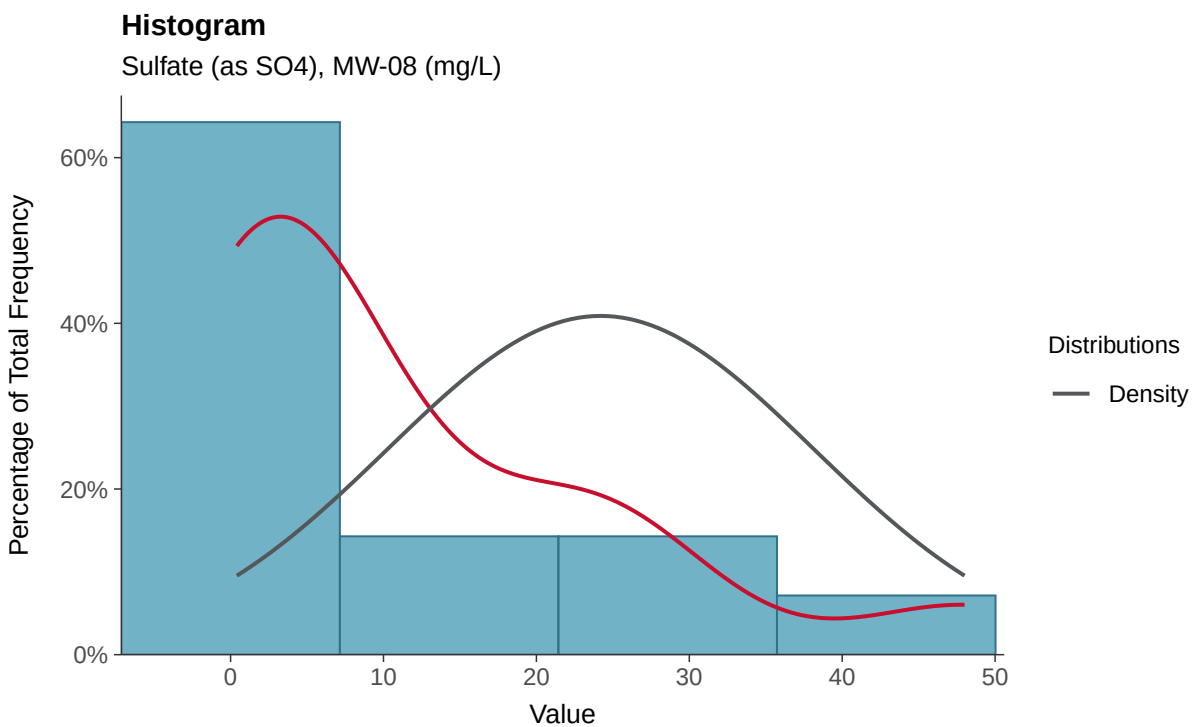
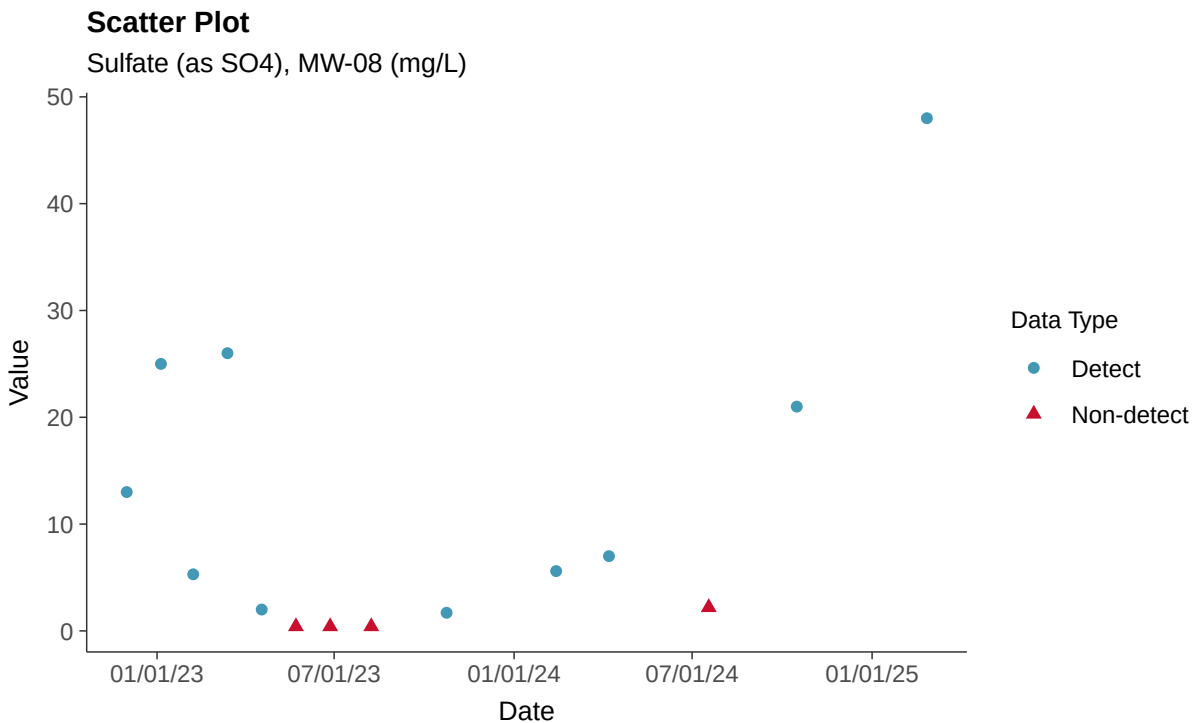


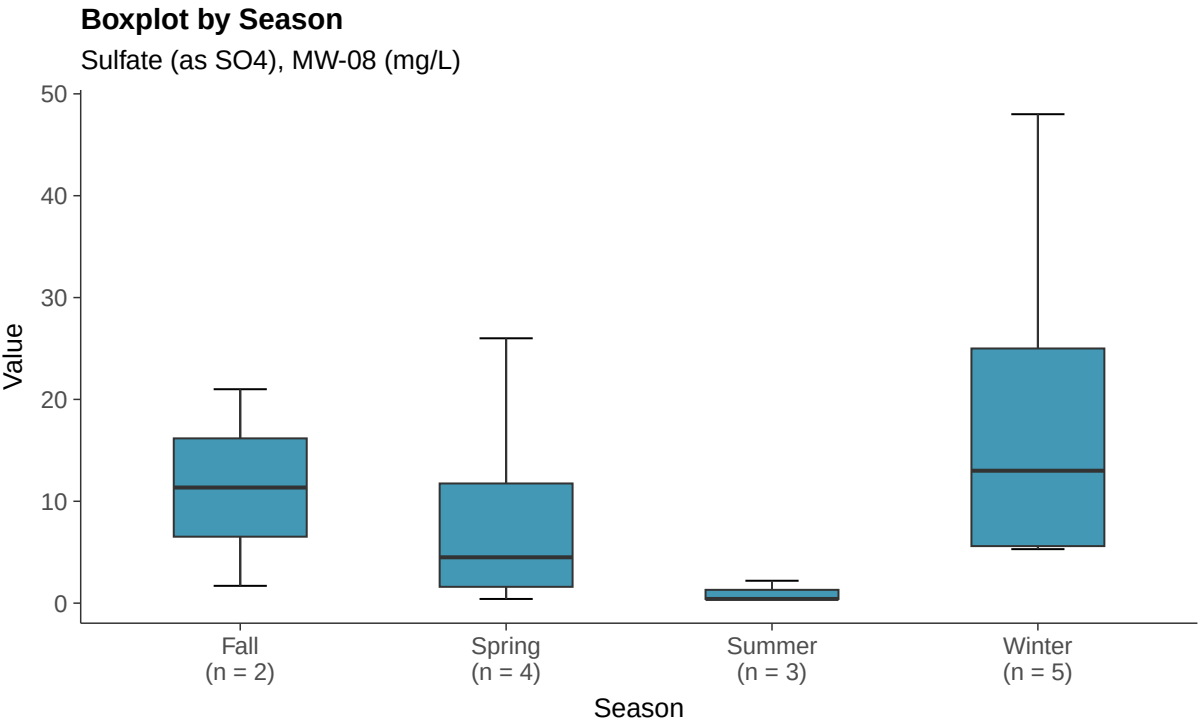
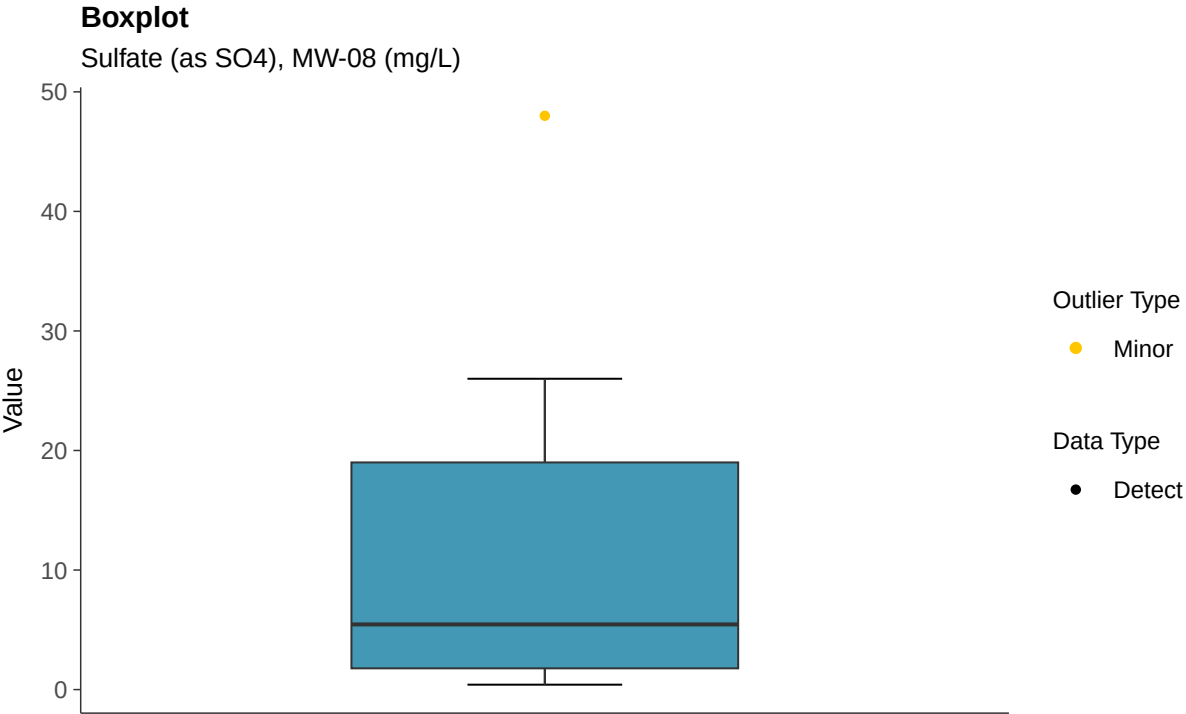




Appendix III: Sulfate (as SO₄), MW-08

ID: 18_1_3_124

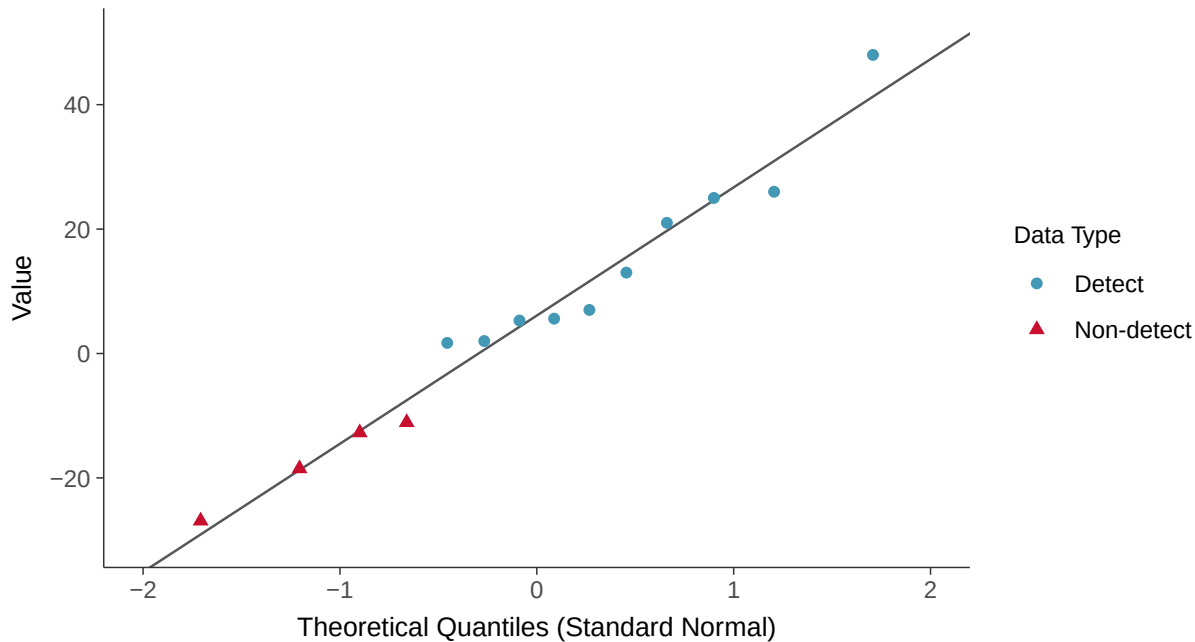






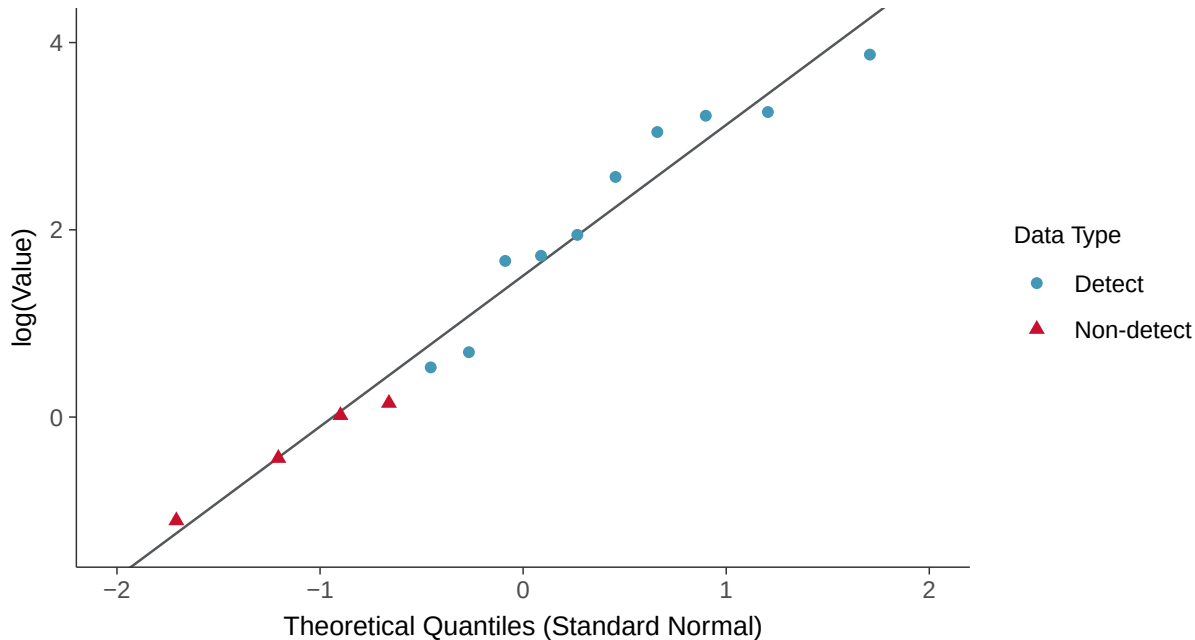
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-08 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

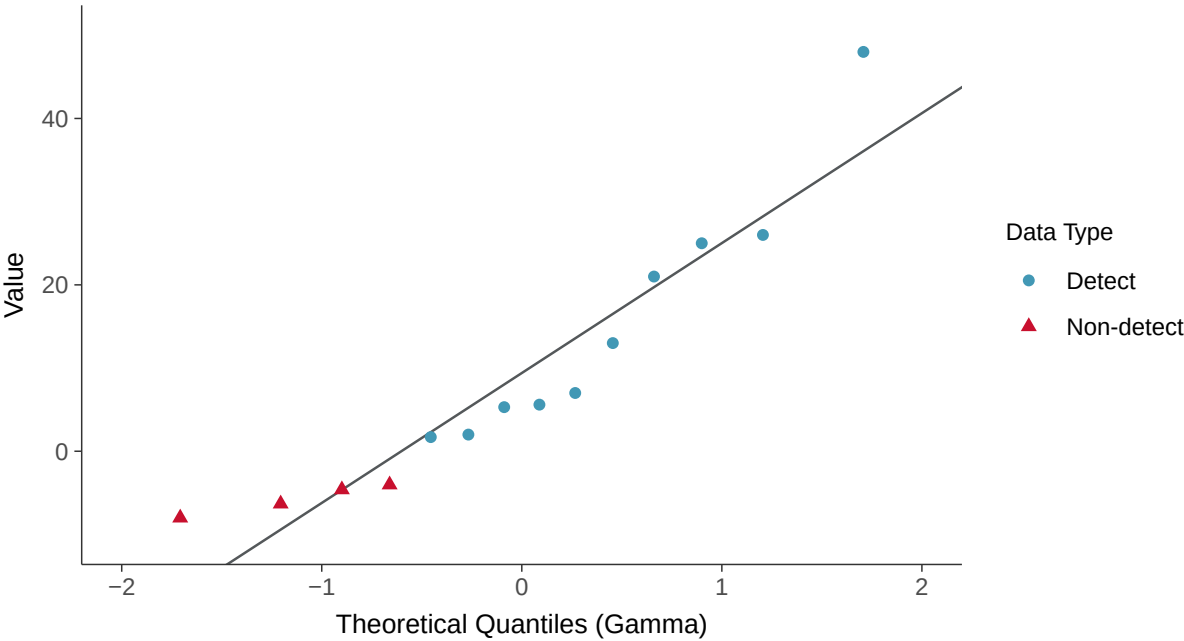
Sulfate (as SO₄), MW-08 (mg/L)





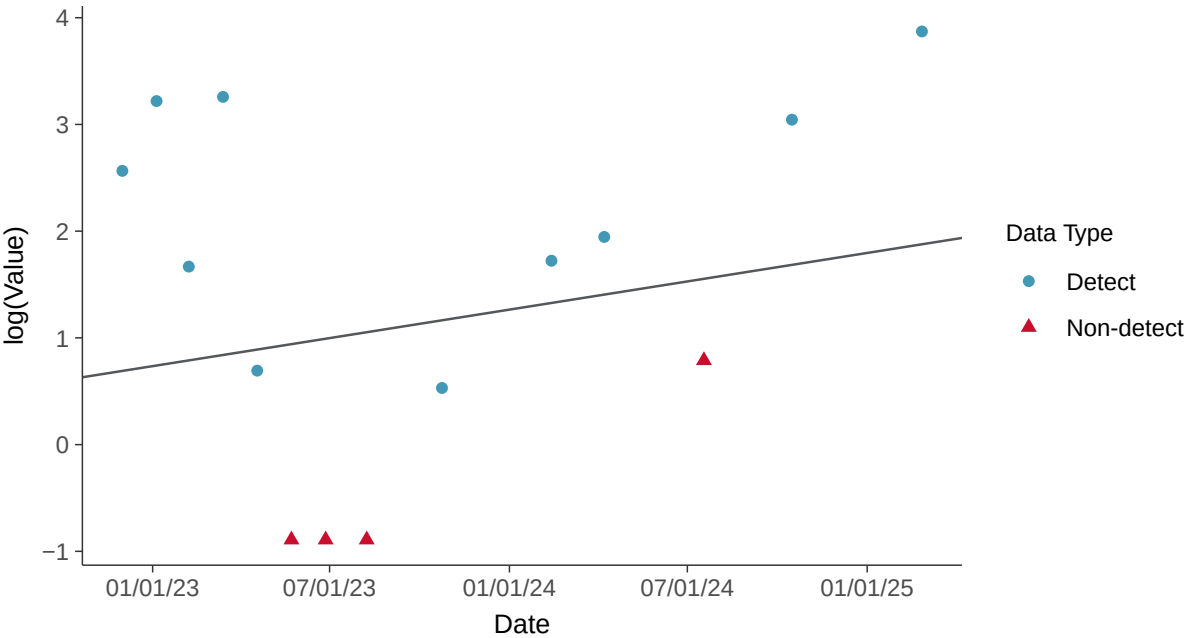
Gamma Q-Q plot using ROS Imputed Estimates

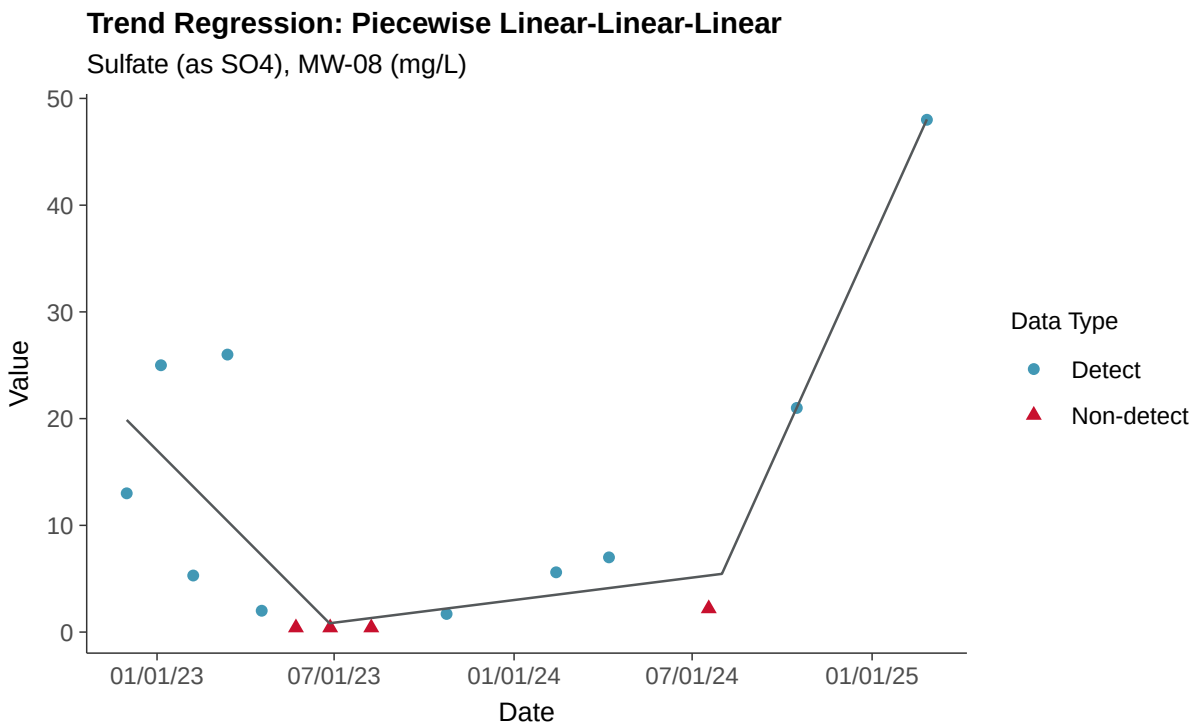
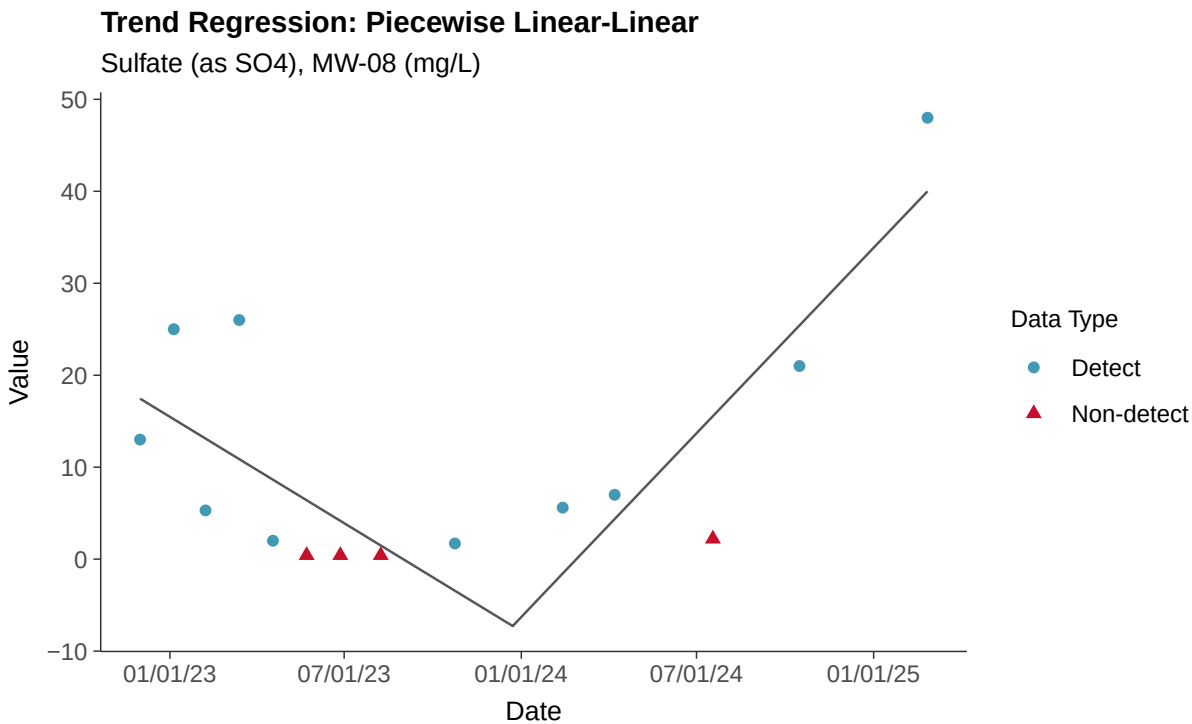
Sulfate (as SO₄), MW-08 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-08 (mg/L)

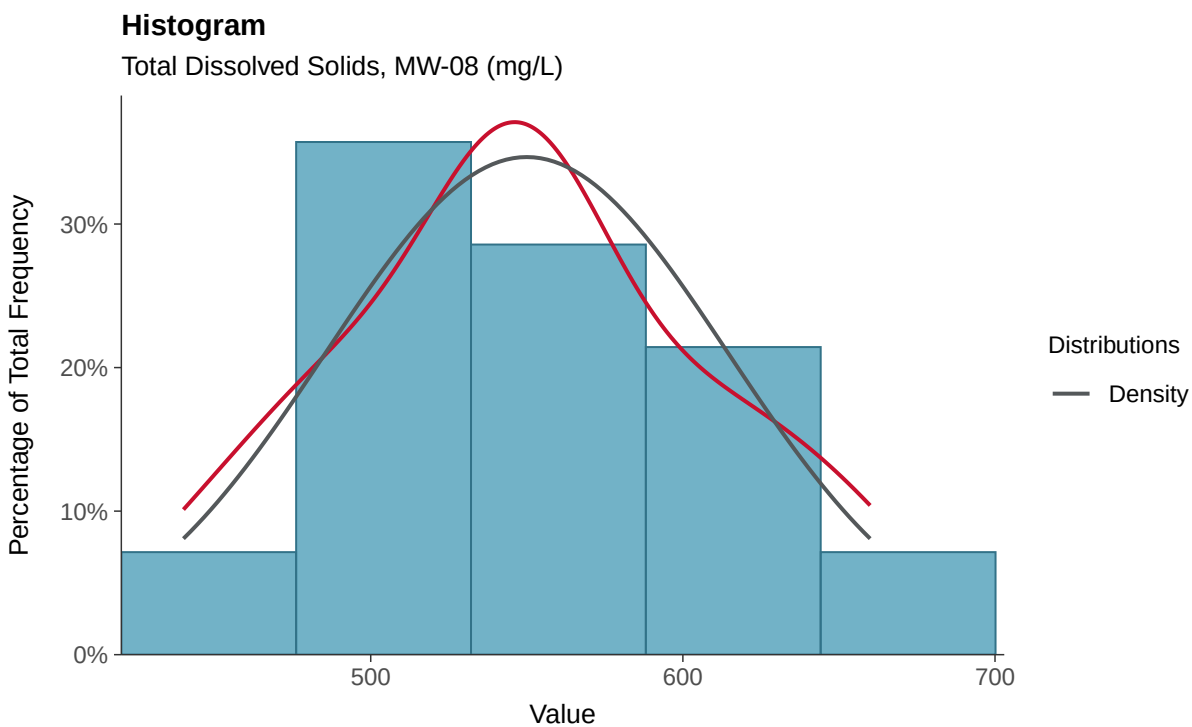
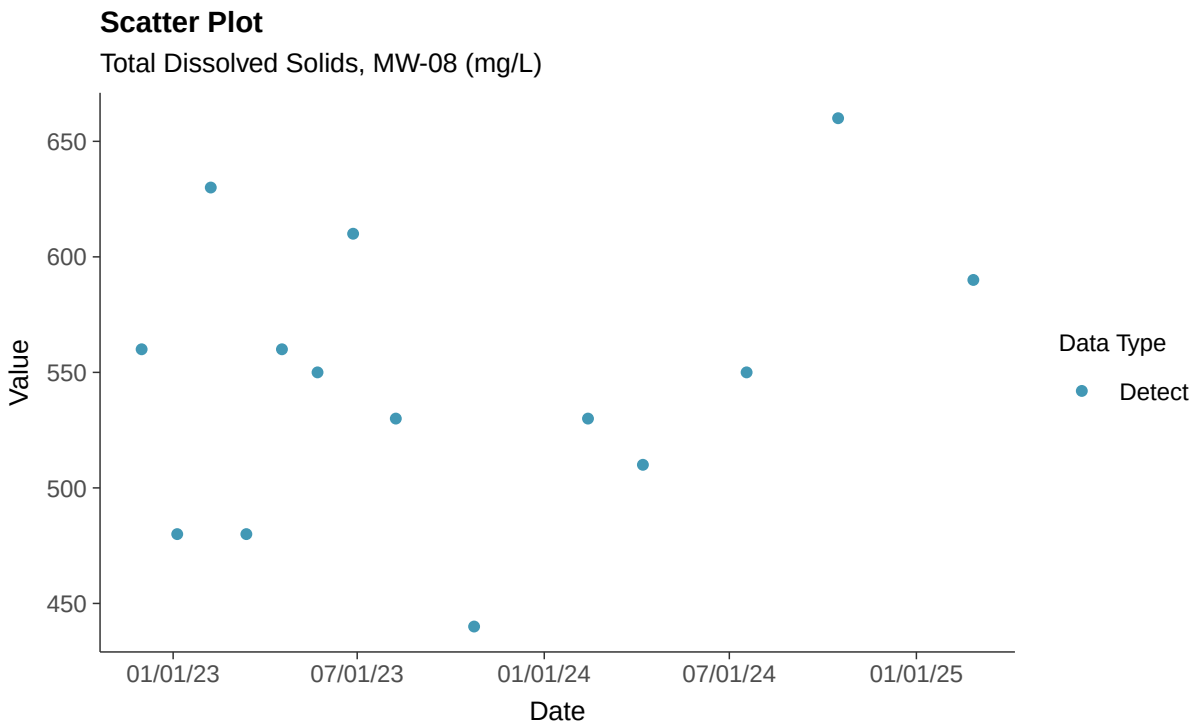


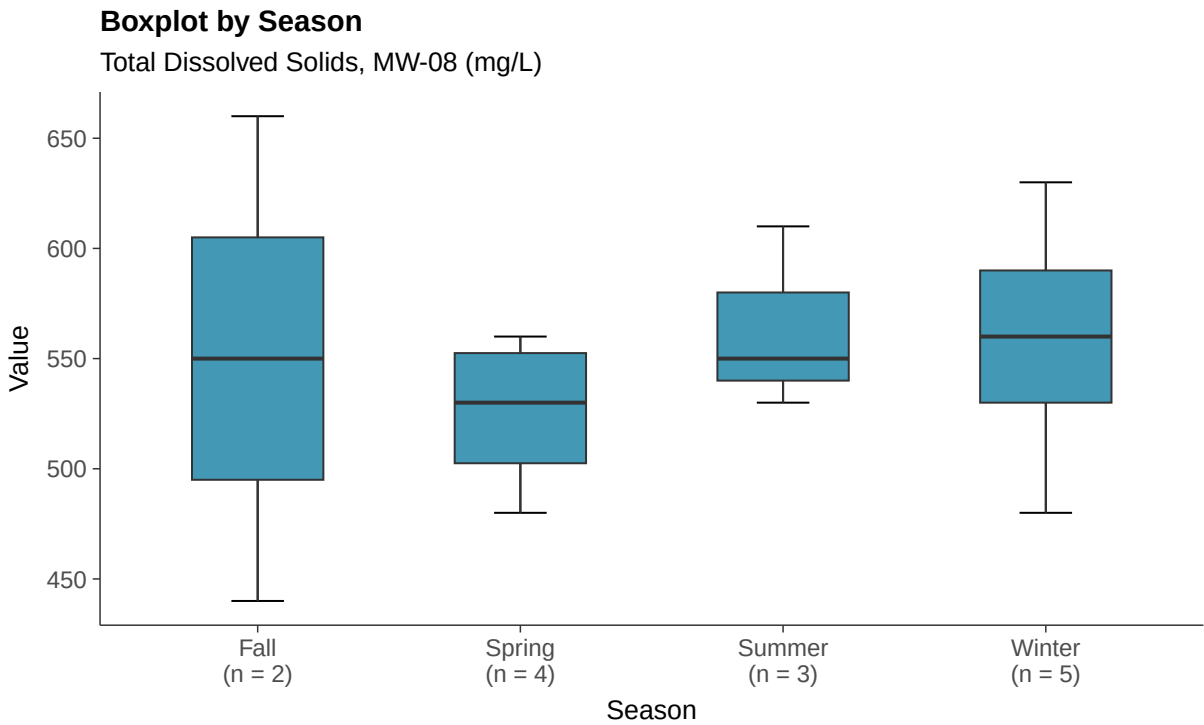


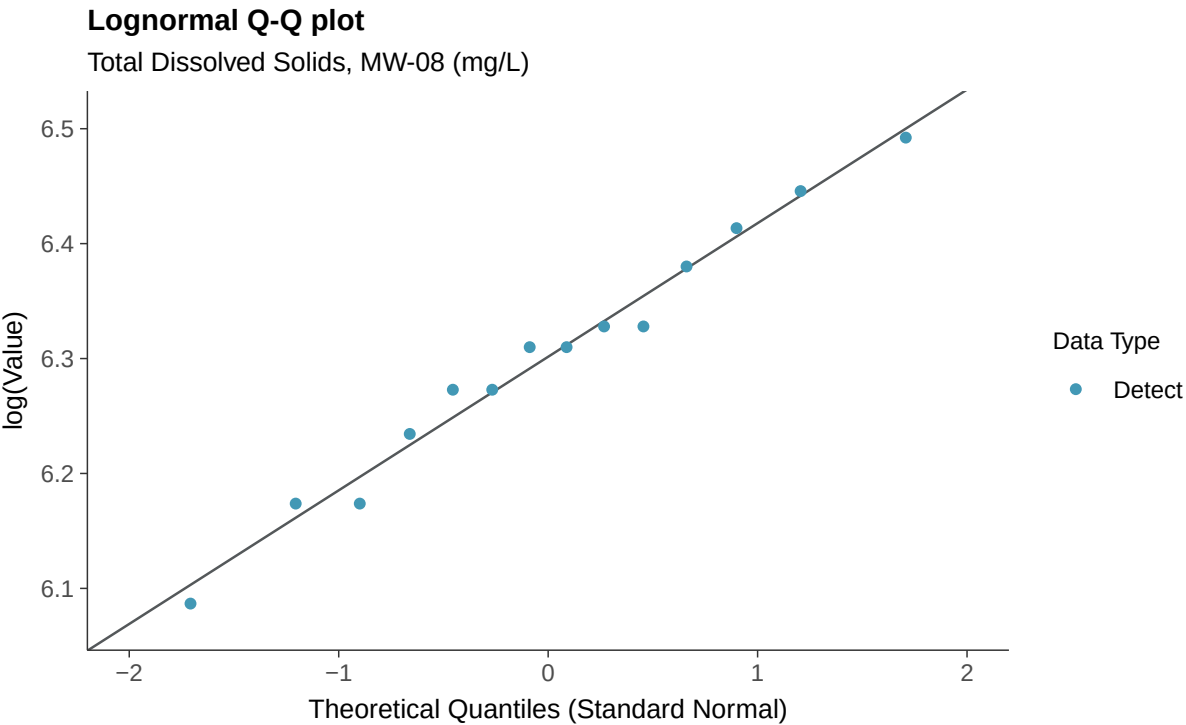
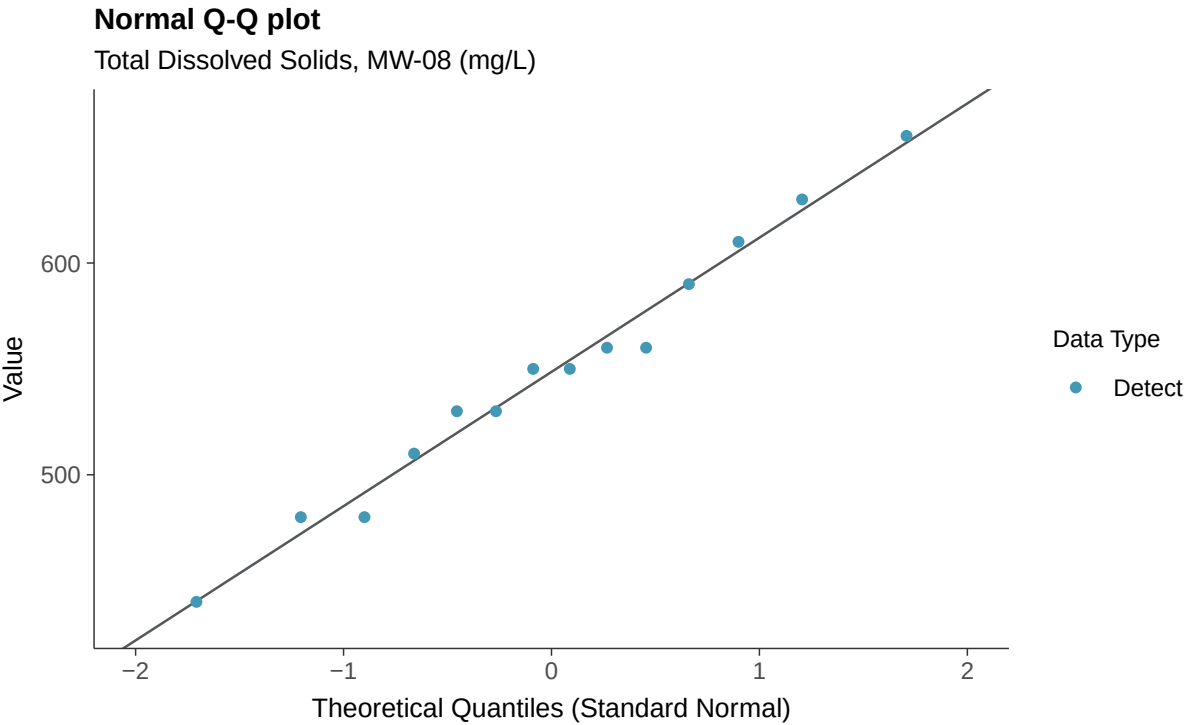


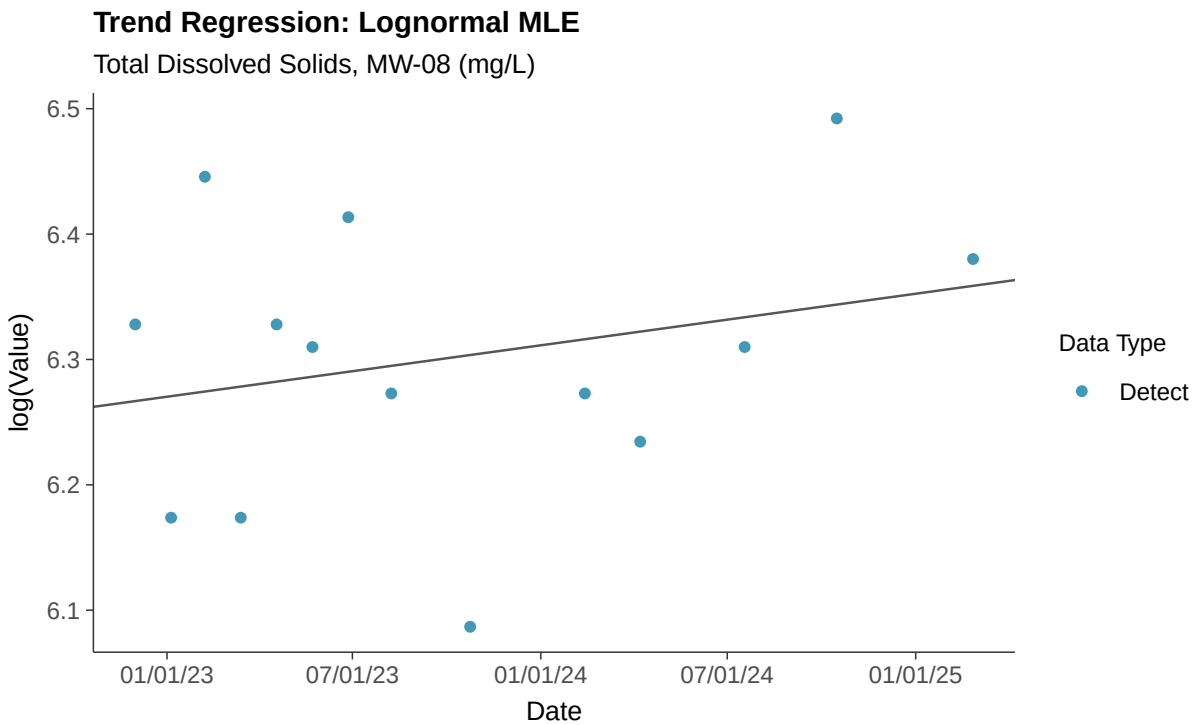
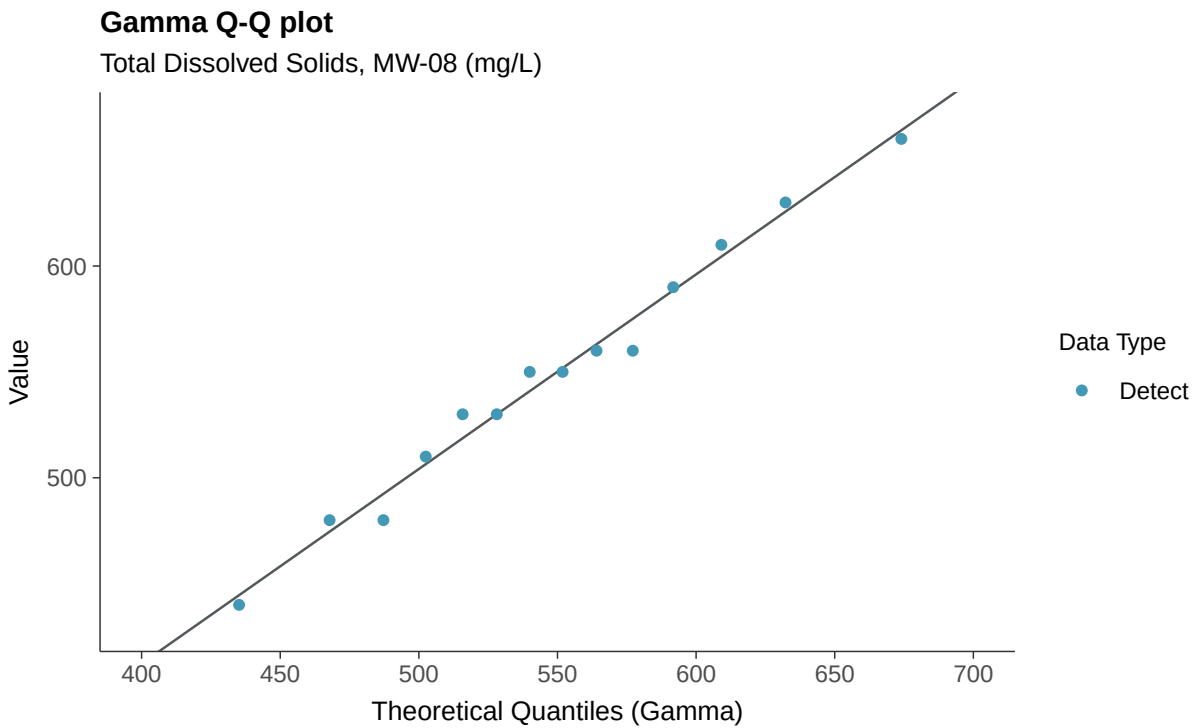
Appendix III: Total Dissolved Solids, MW-08

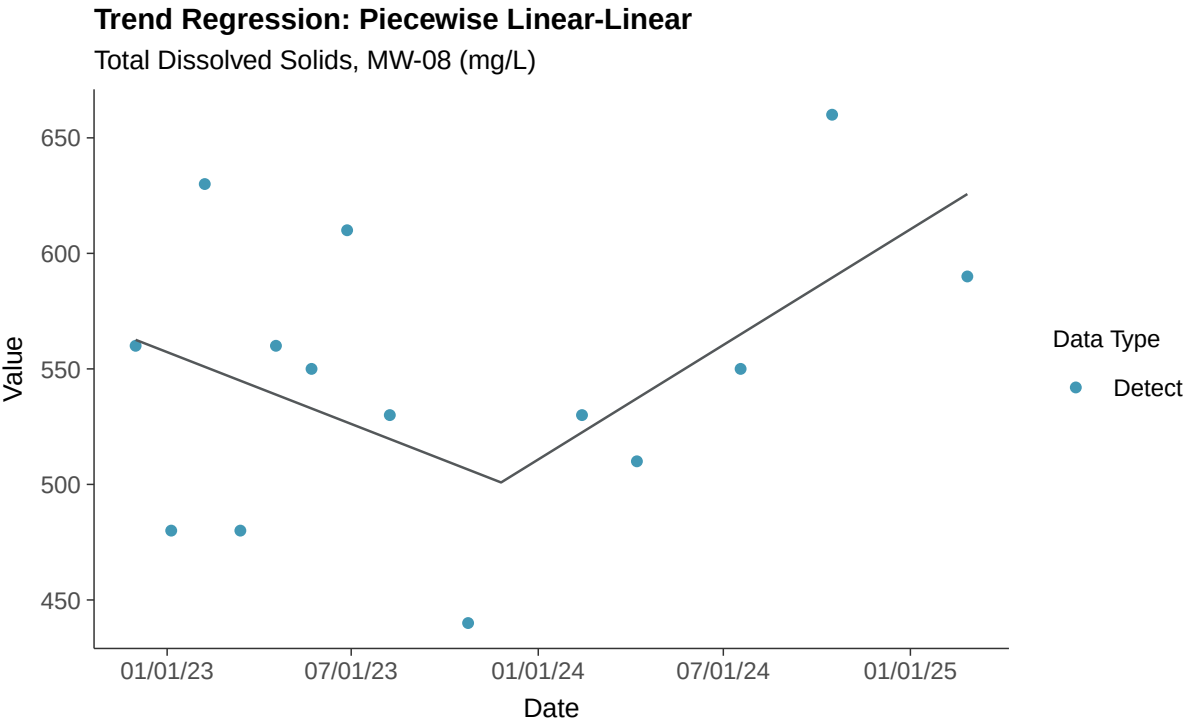
ID: 18_1_3_126







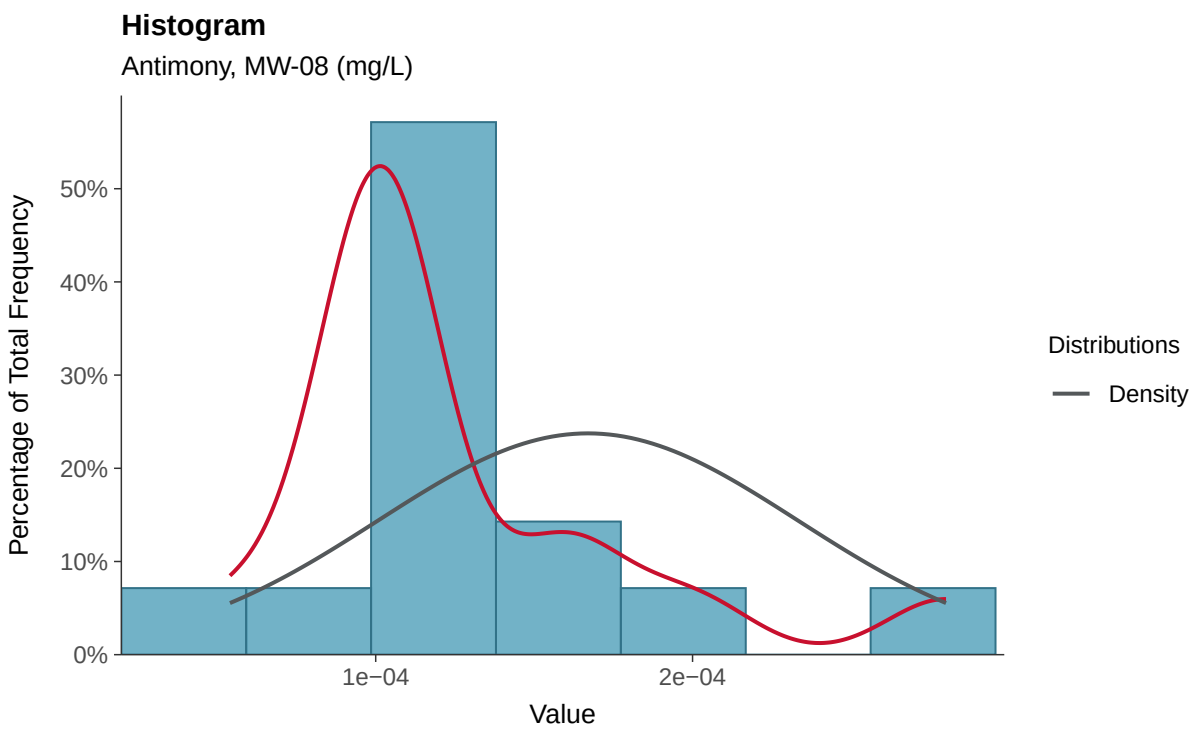
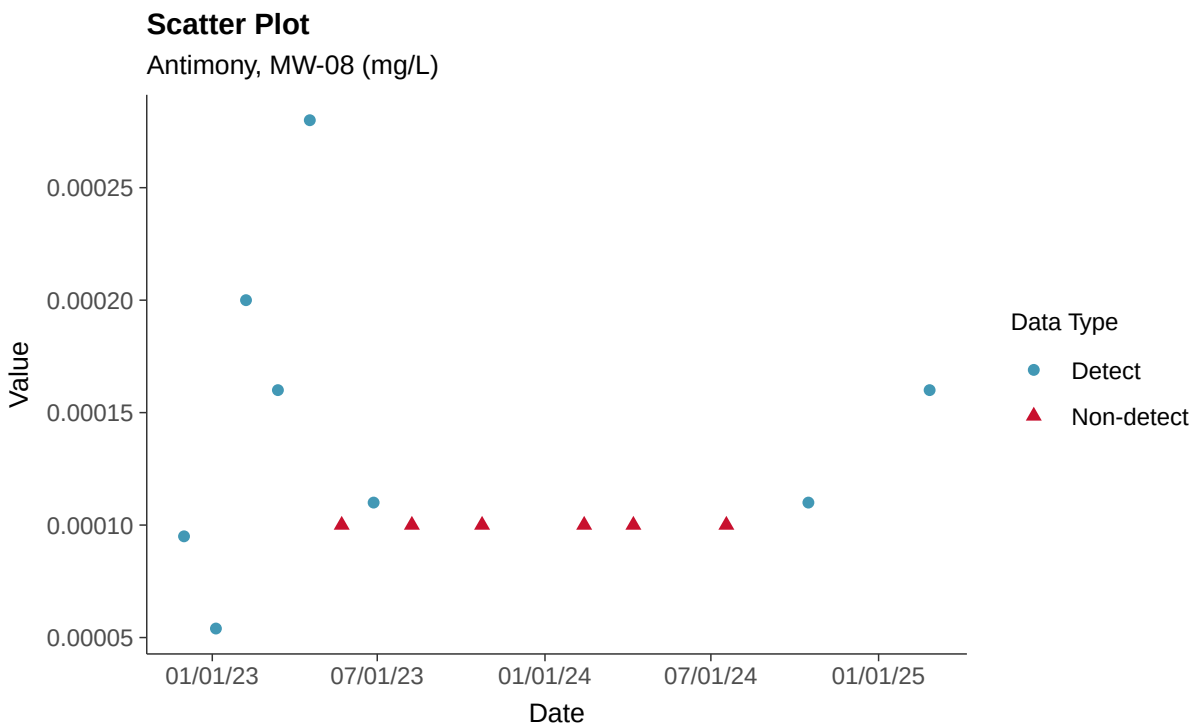


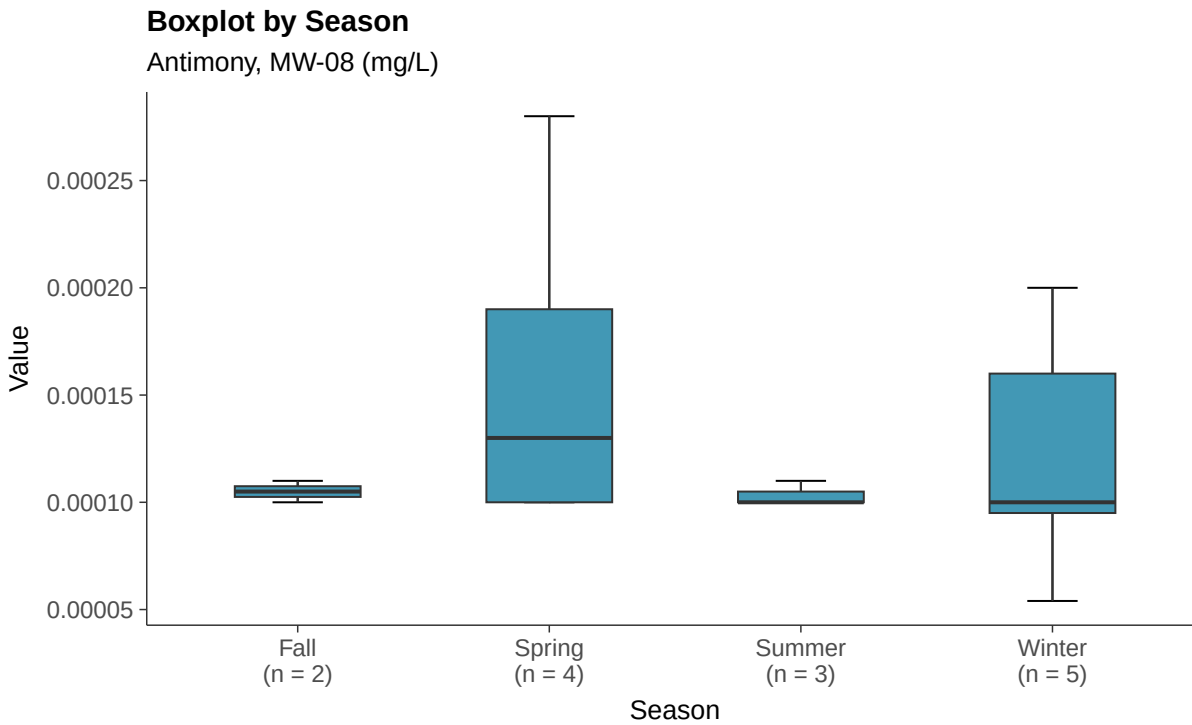
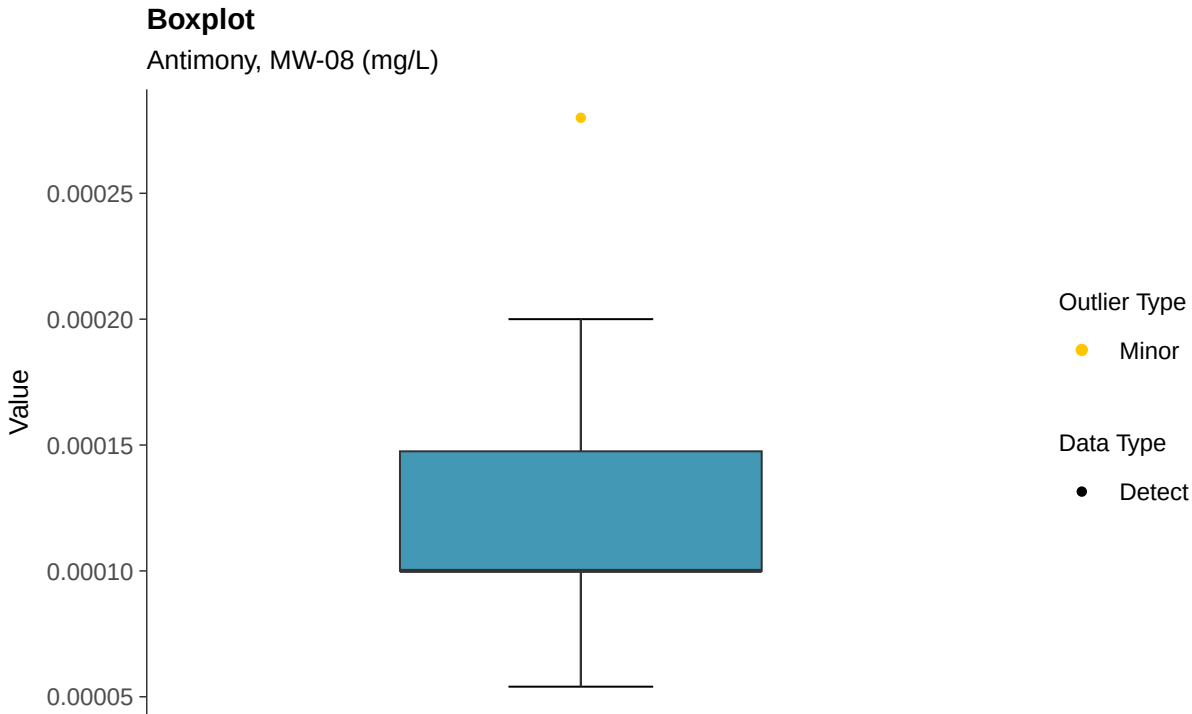




Appendix IV: Antimony, MW-08

ID: 18_1_4_101

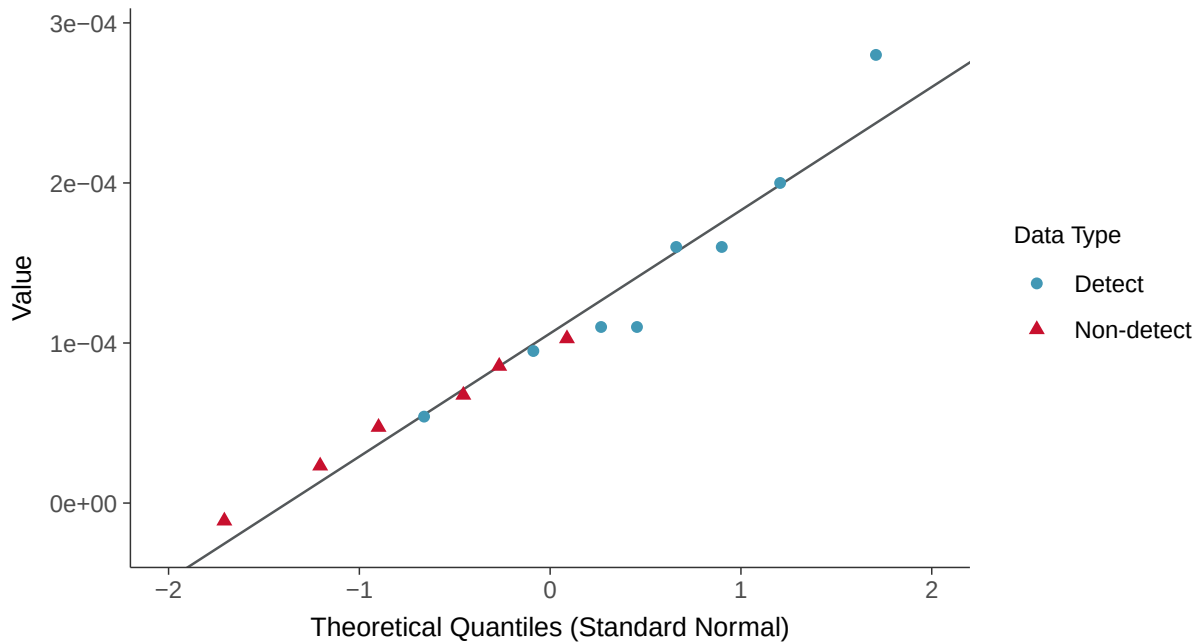






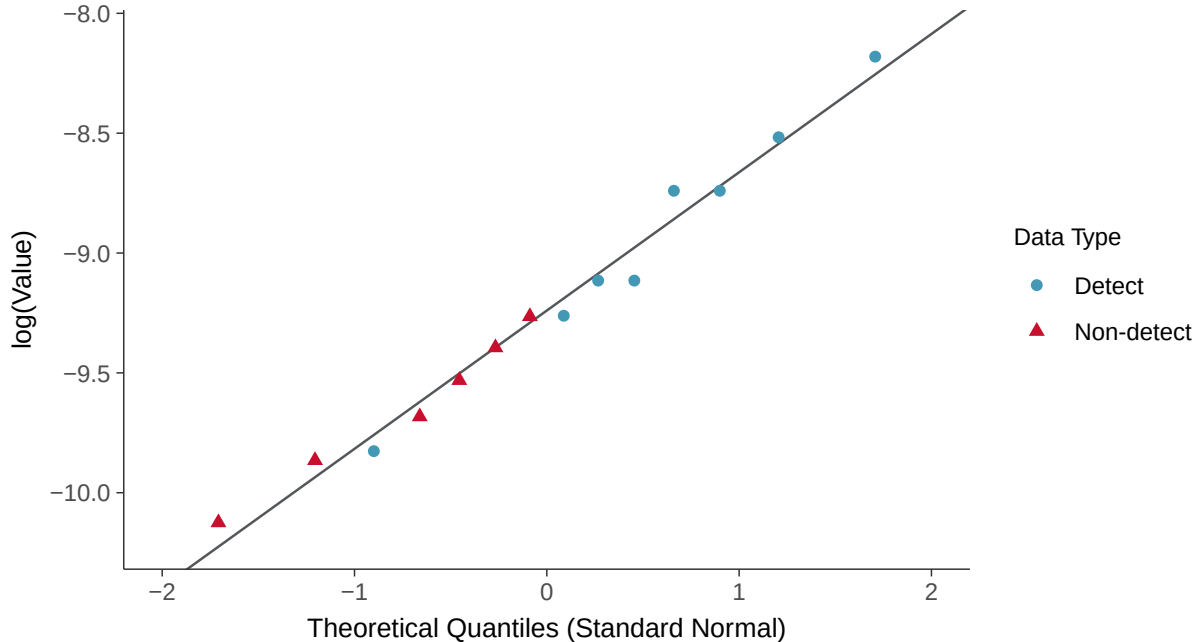
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-08 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

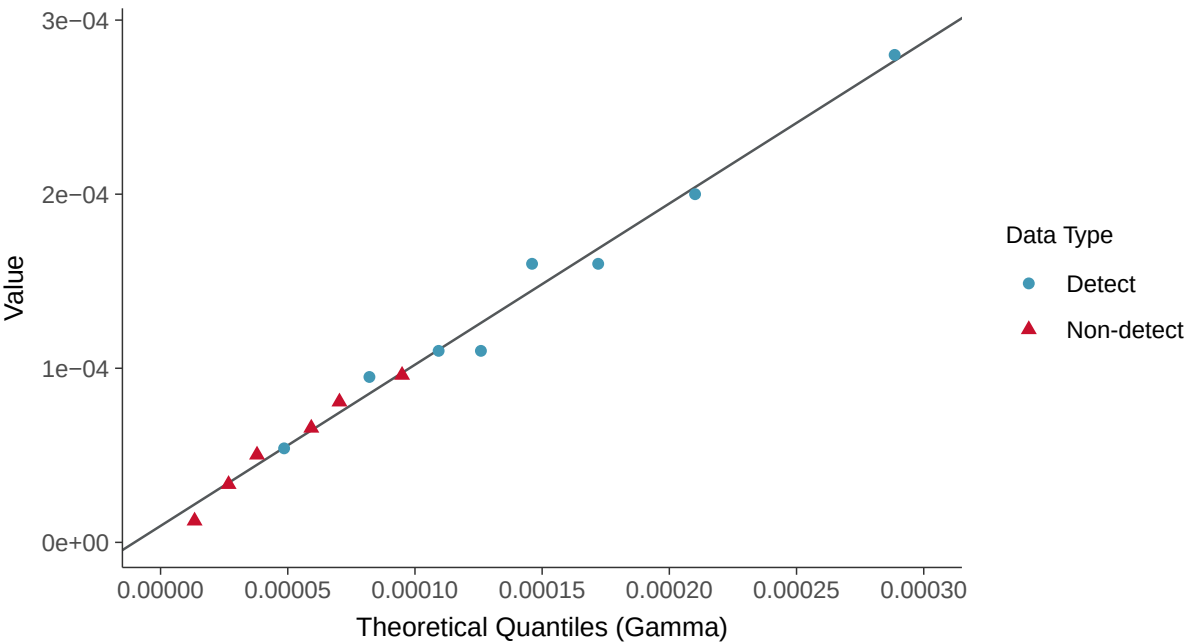
Antimony, MW-08 (mg/L)





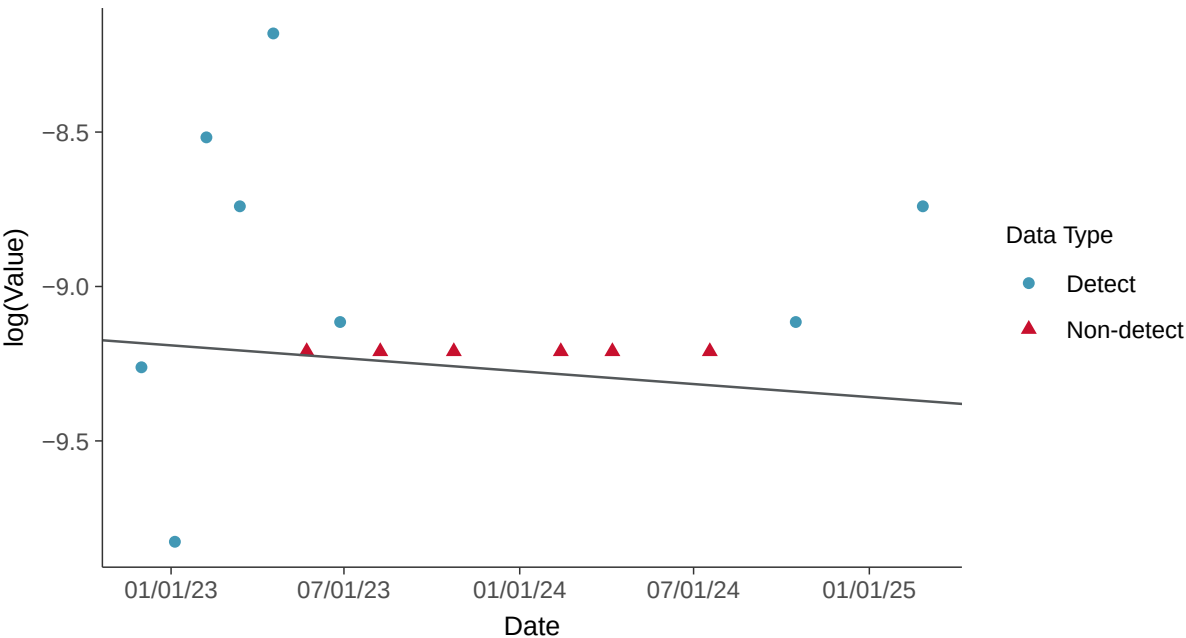
Gamma Q-Q plot using ROS Imputed Estimates

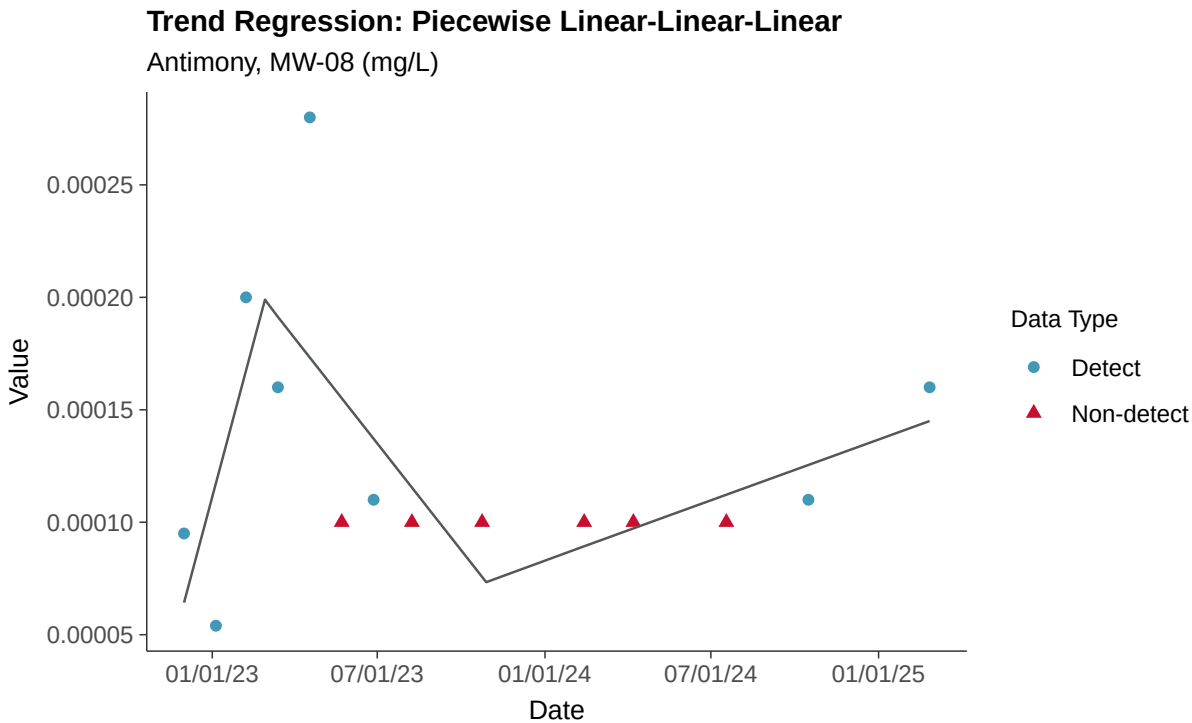
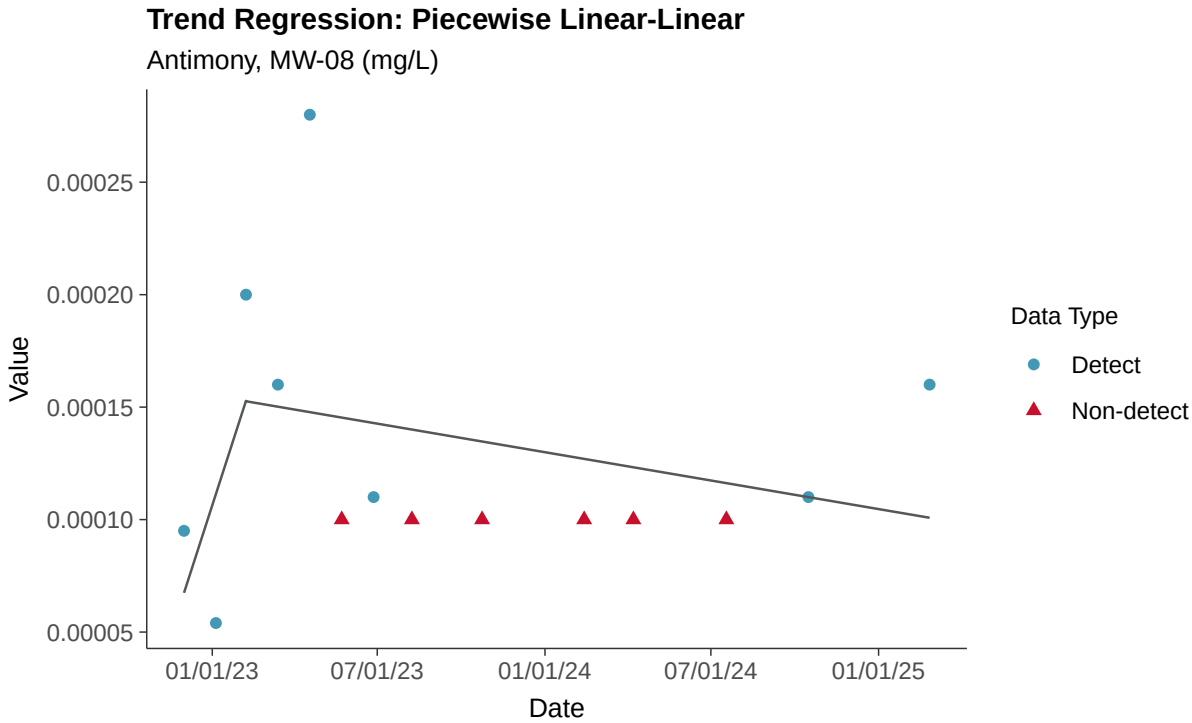
Antimony, MW-08 (mg/L)



Trend Regression: Lognormal MLE

Antimony, MW-08 (mg/L)

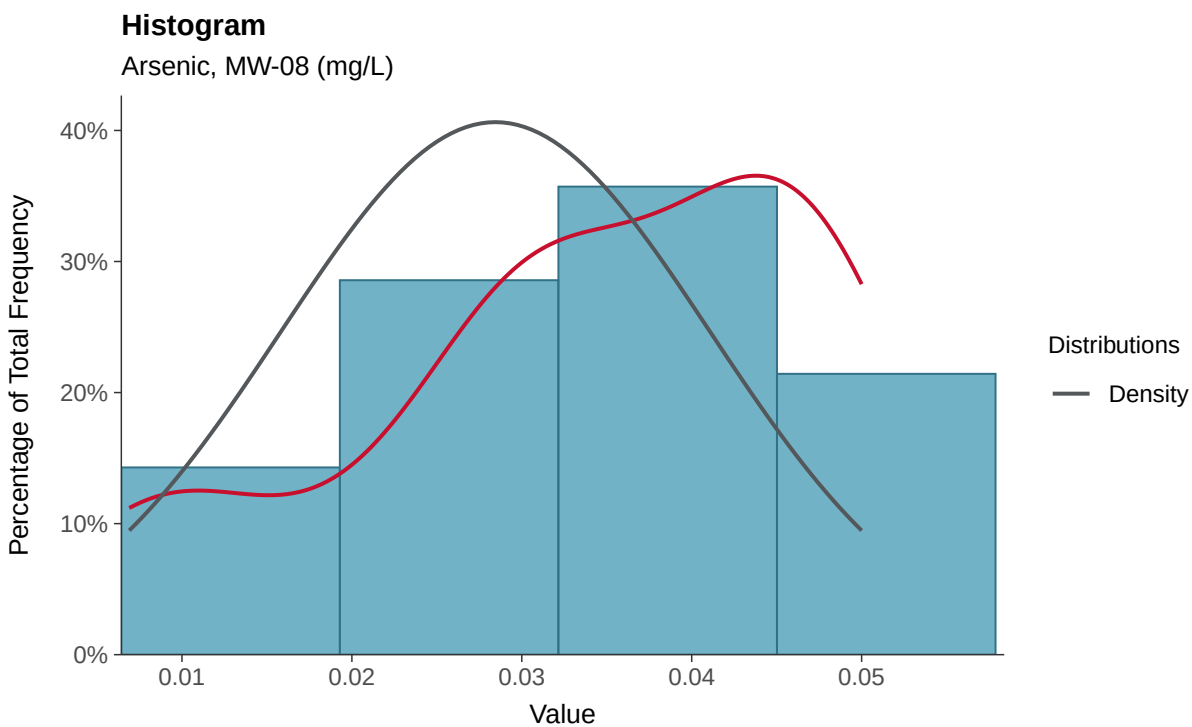
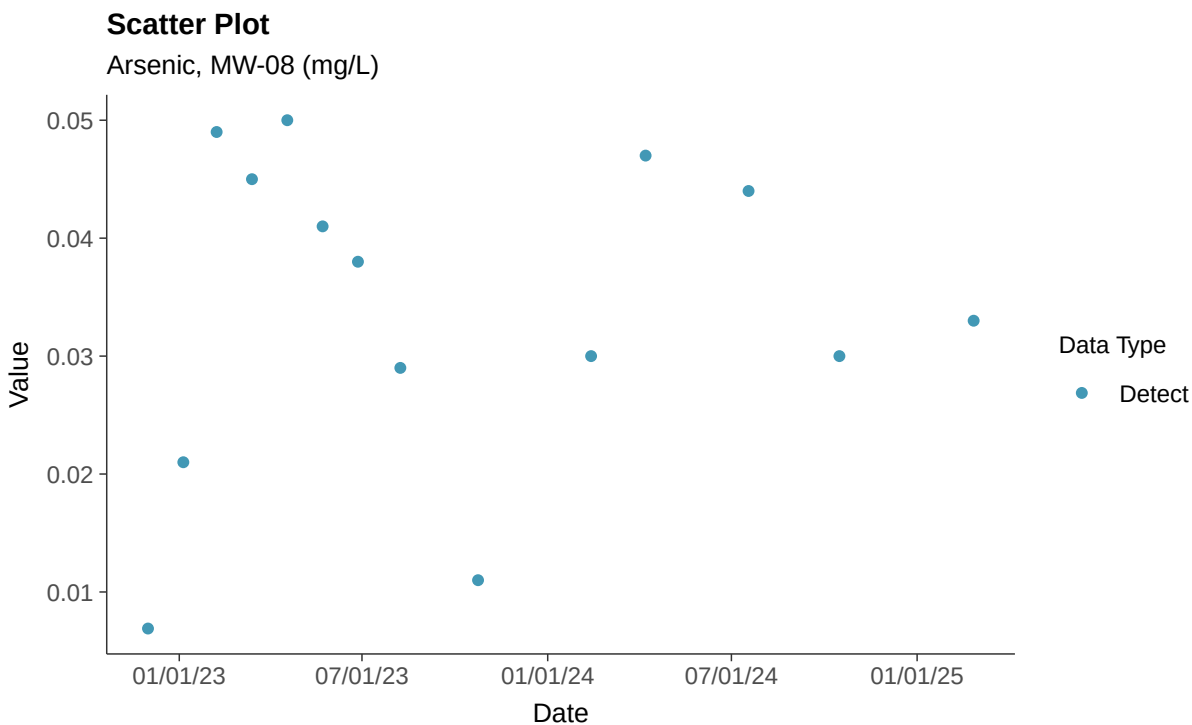


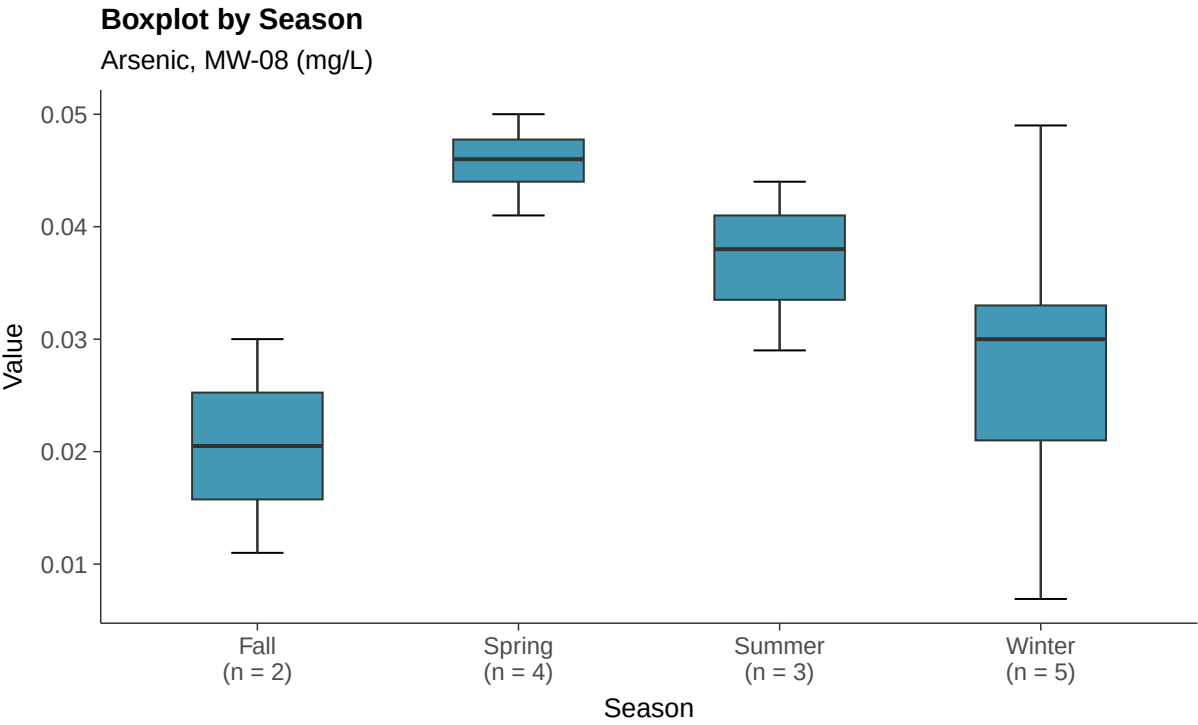
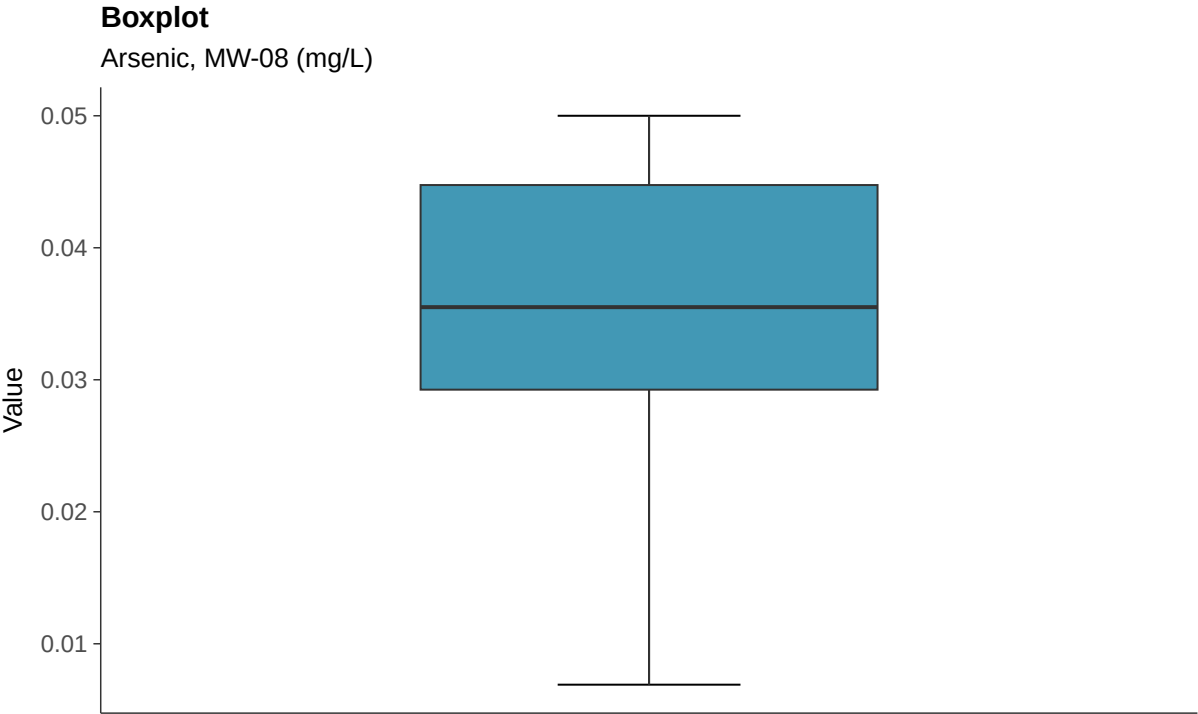


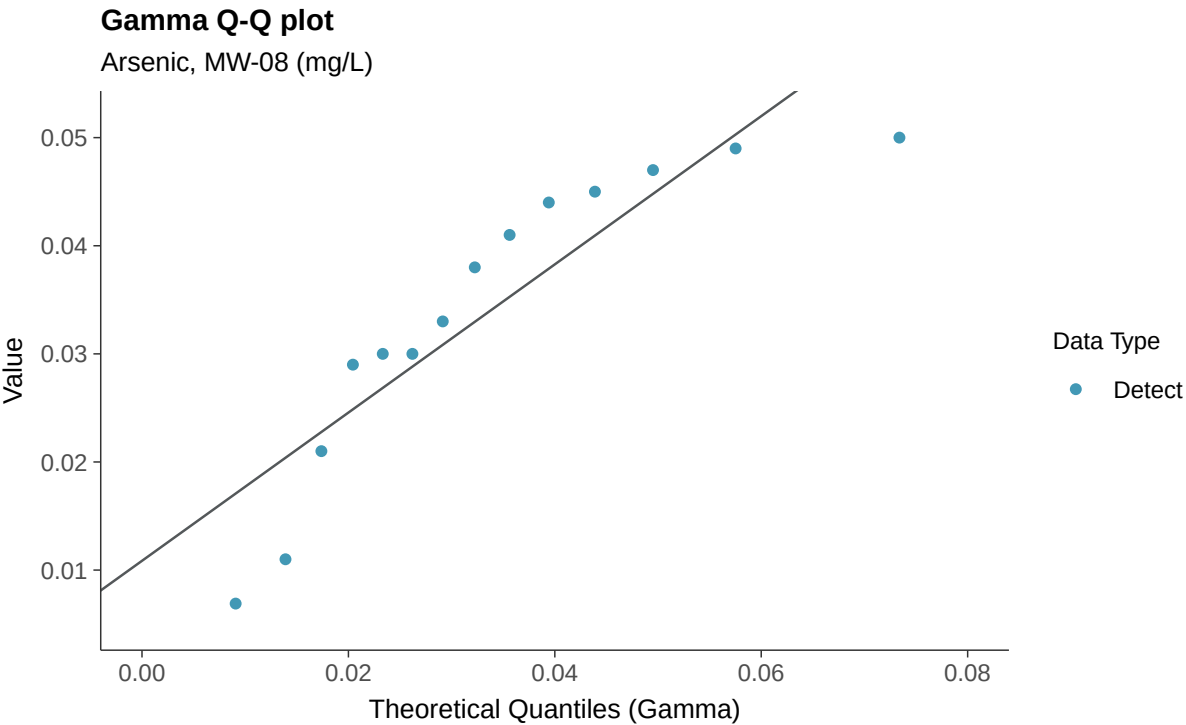
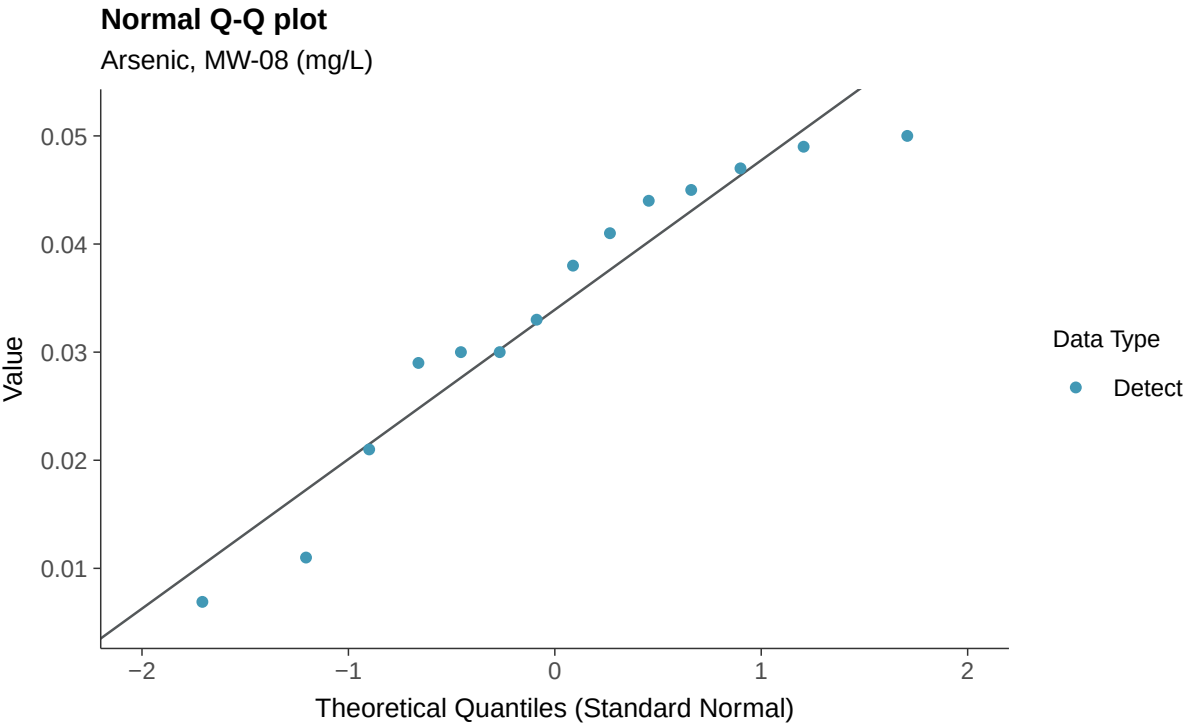


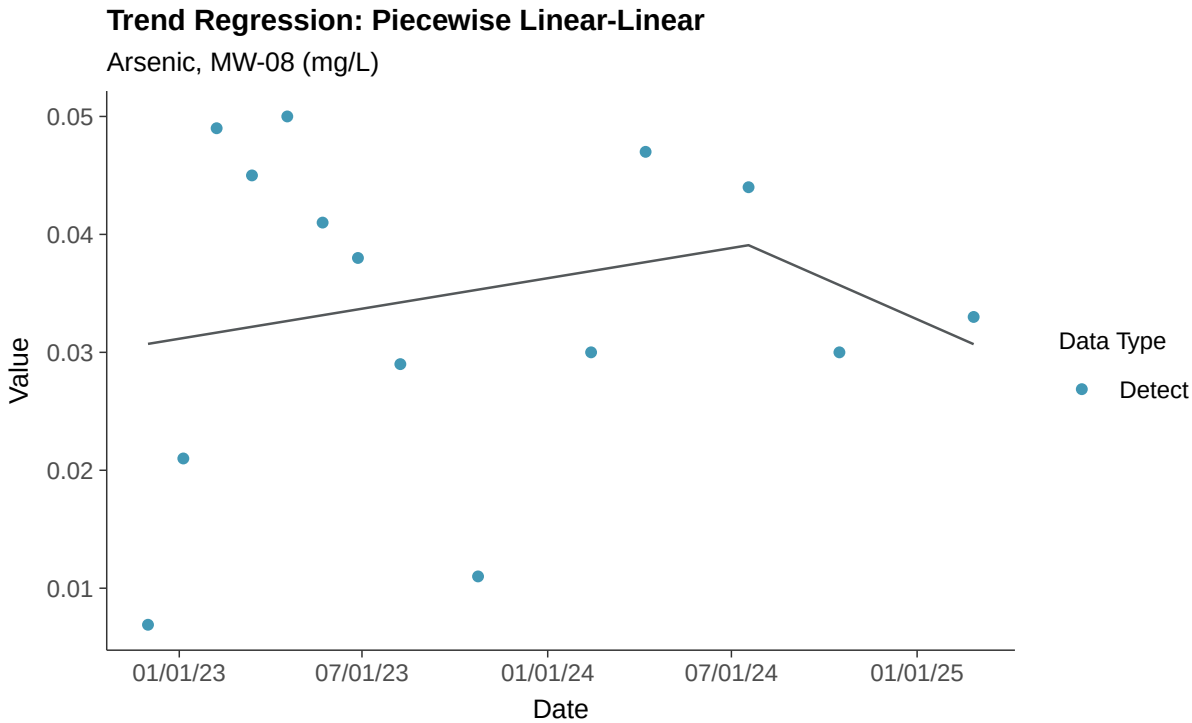
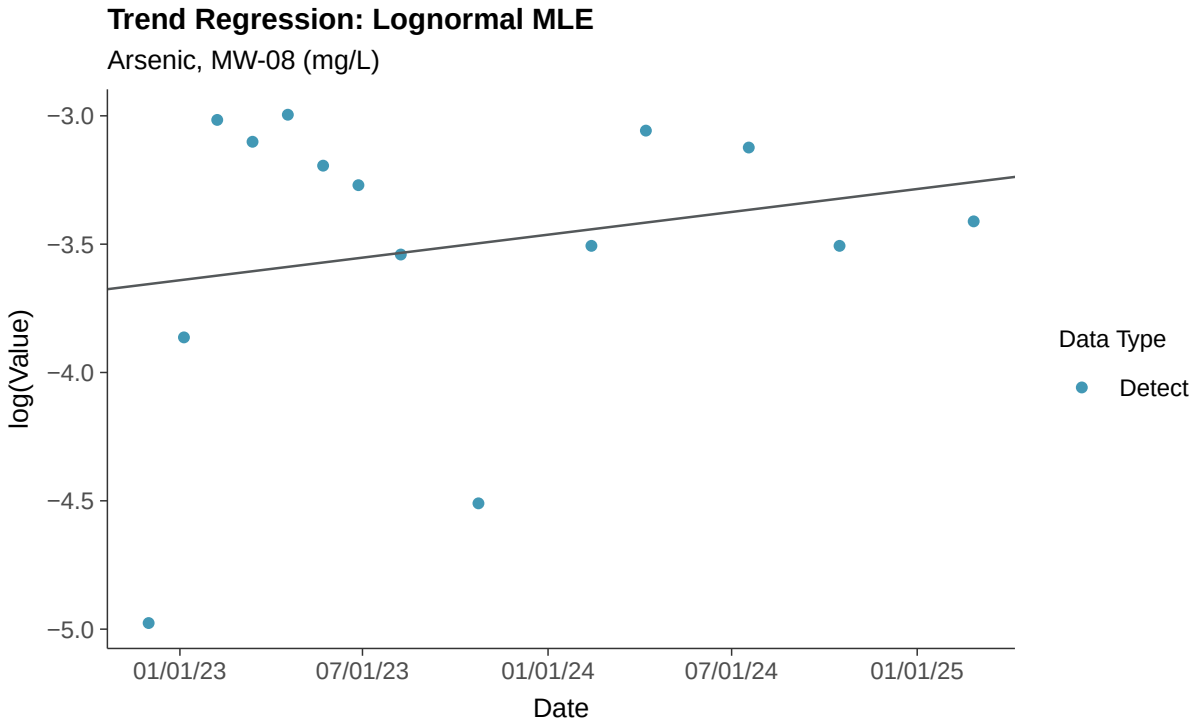
Appendix IV: Arsenic, MW-08

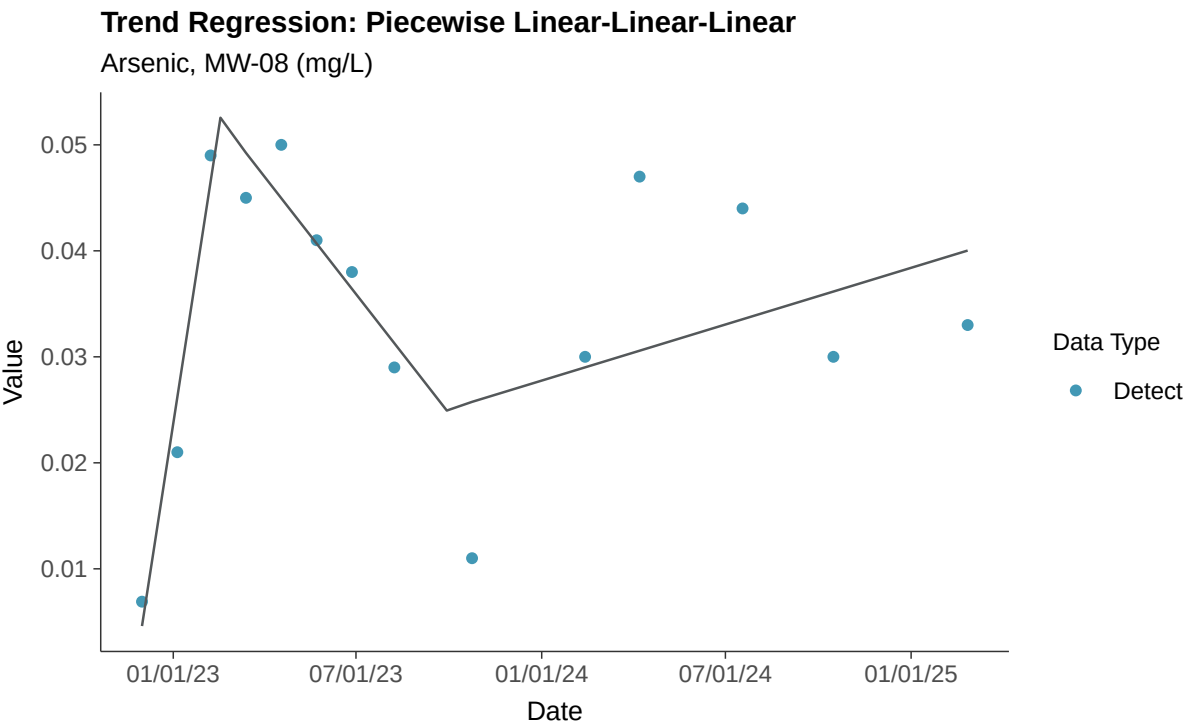
ID: 18_1_4_102







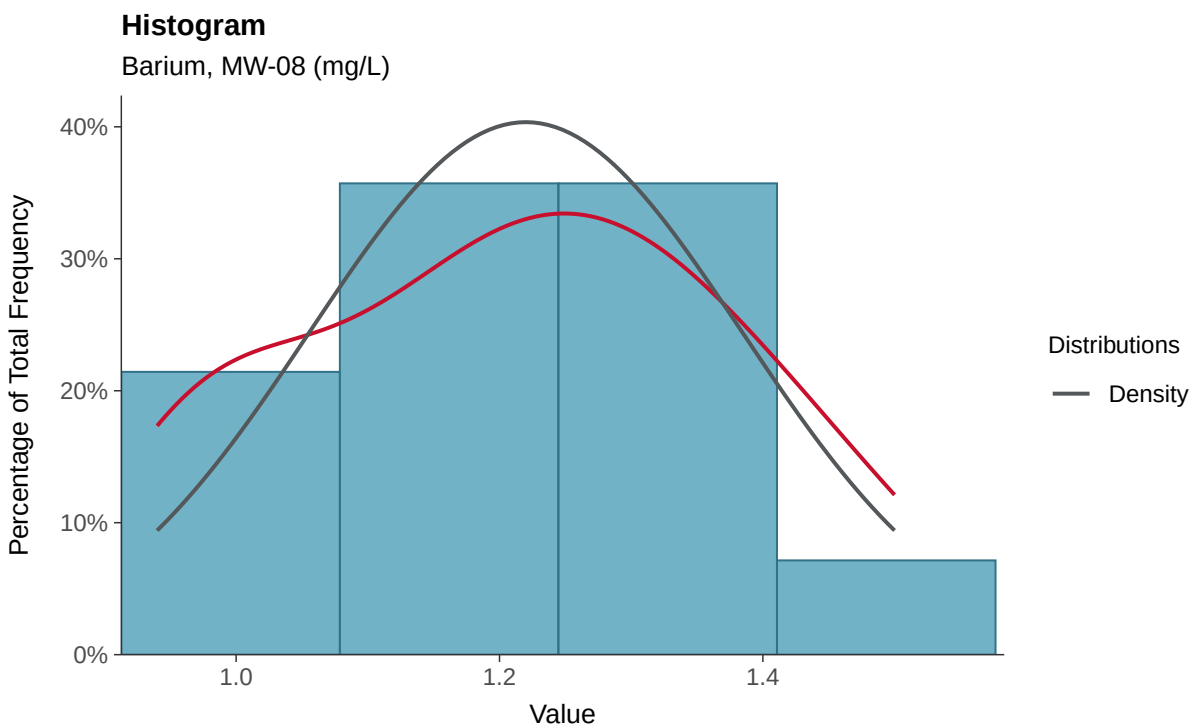
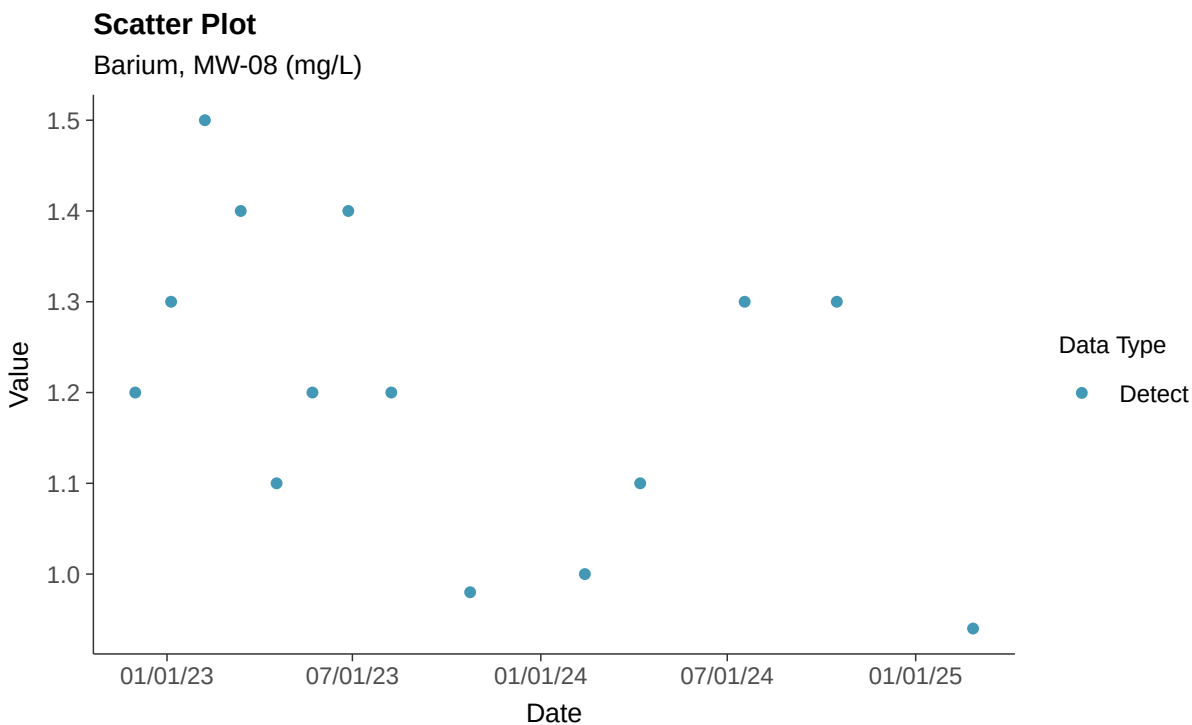


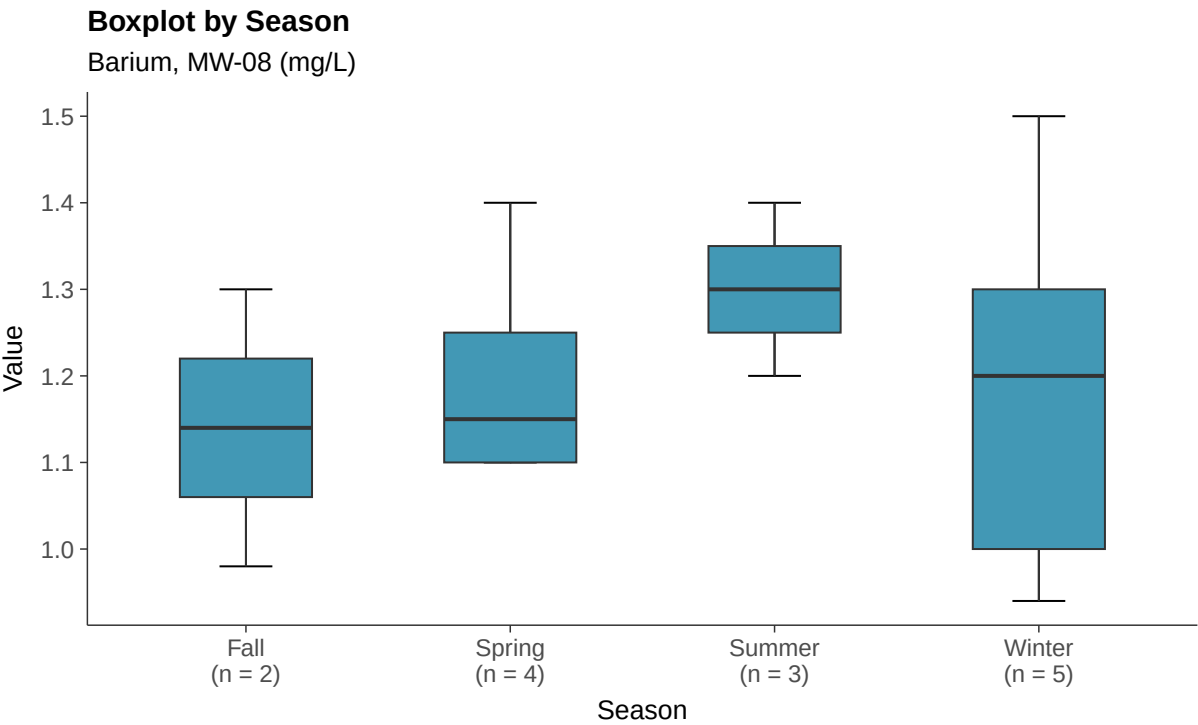
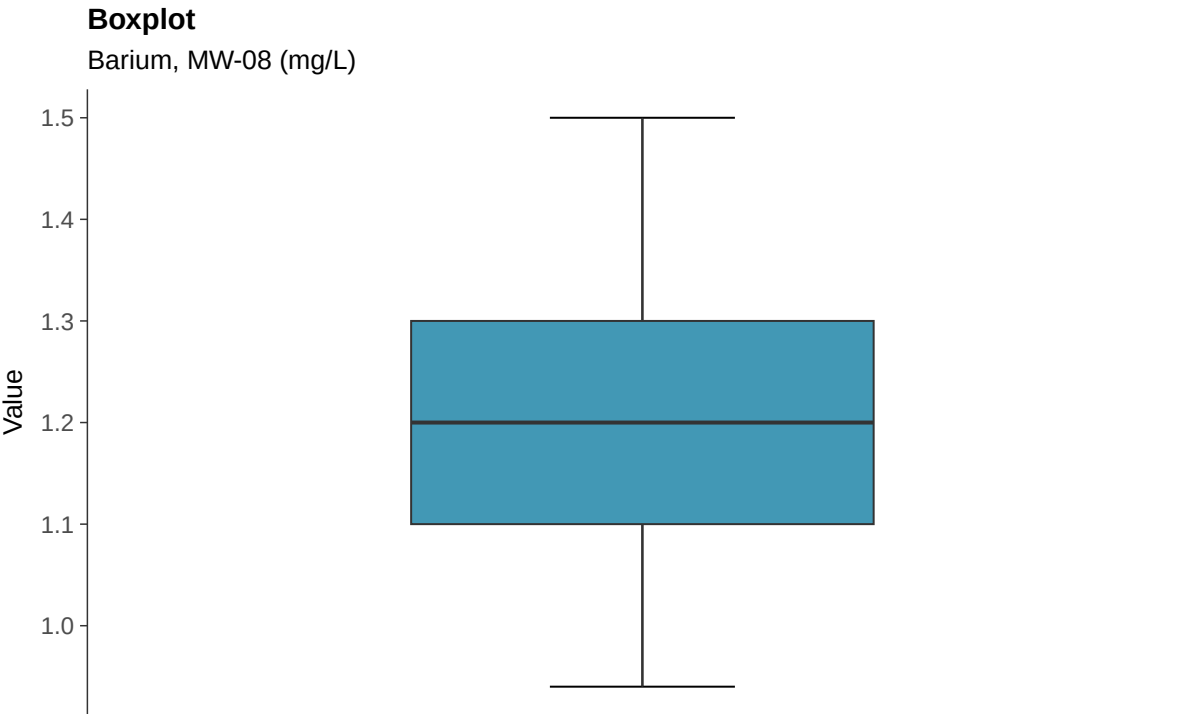


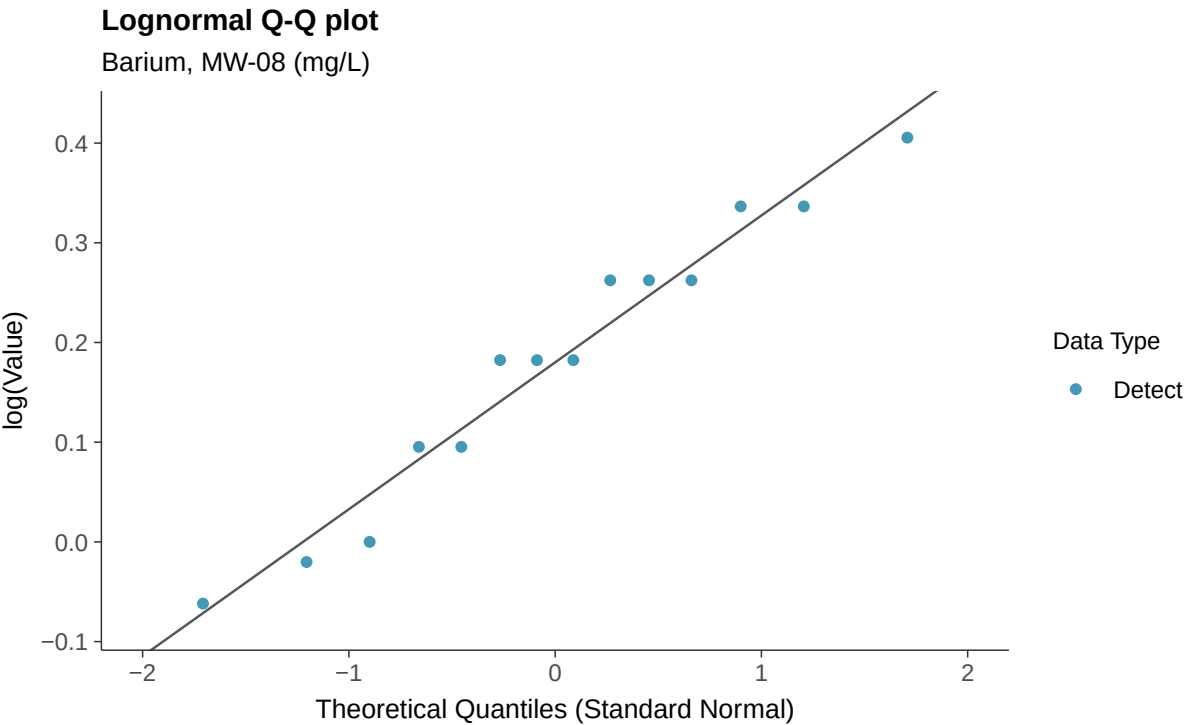
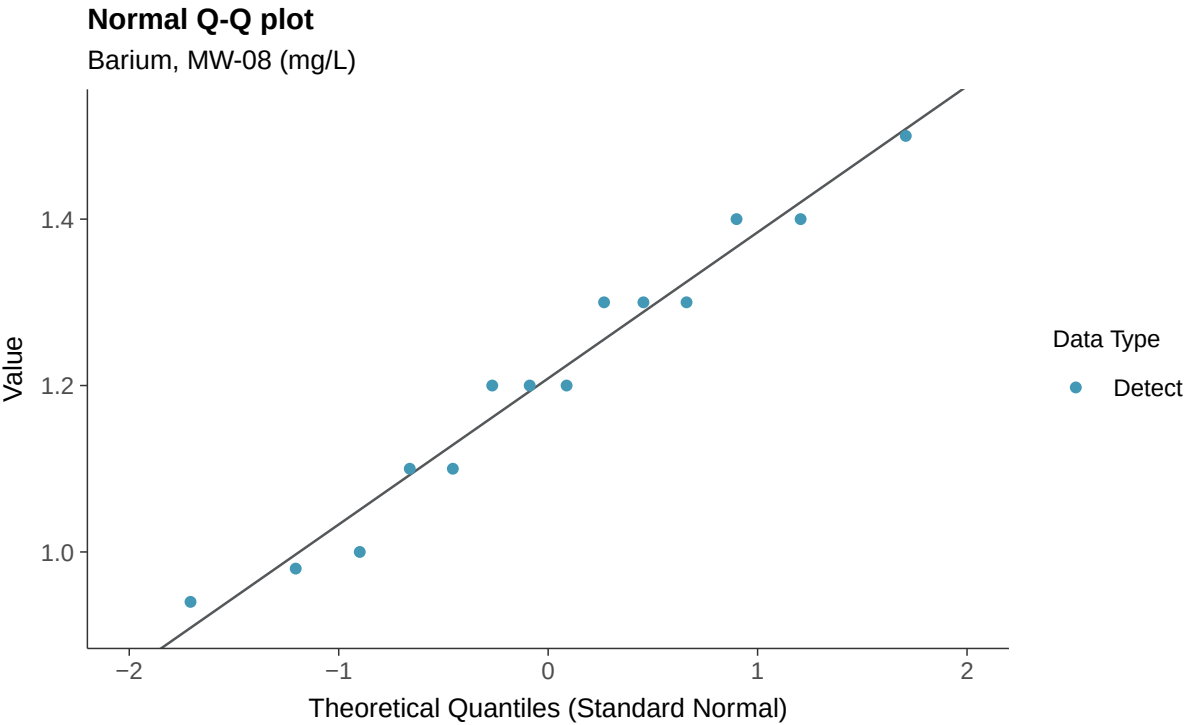


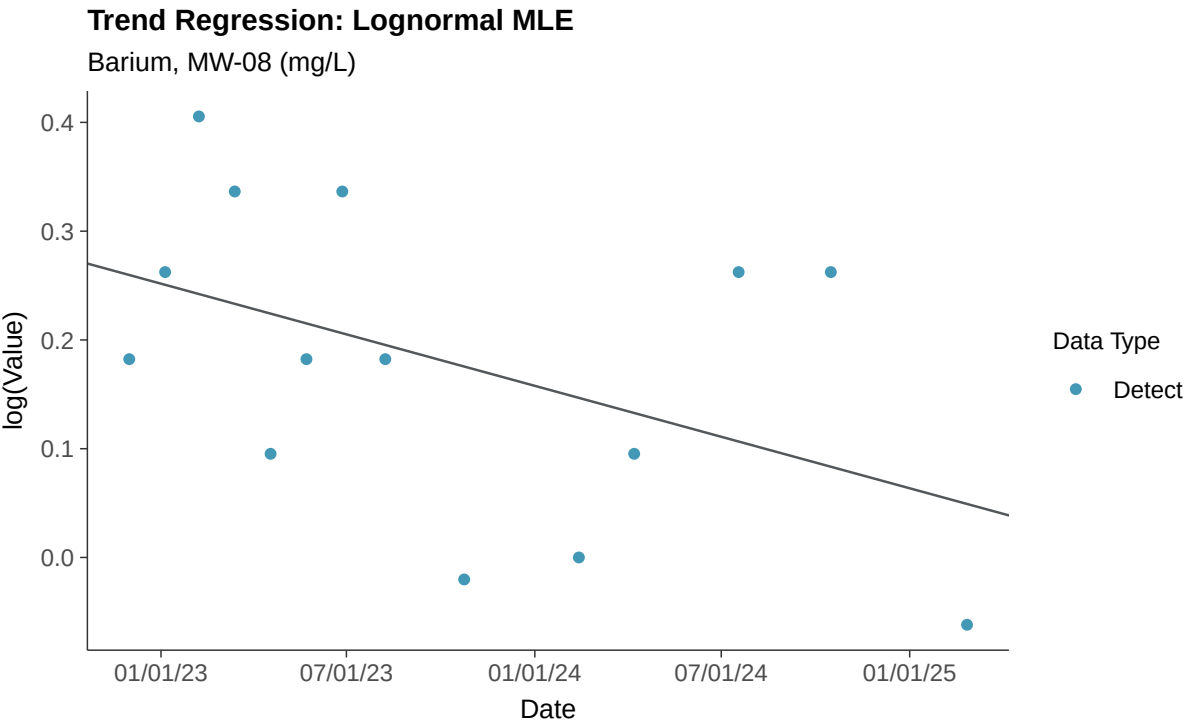
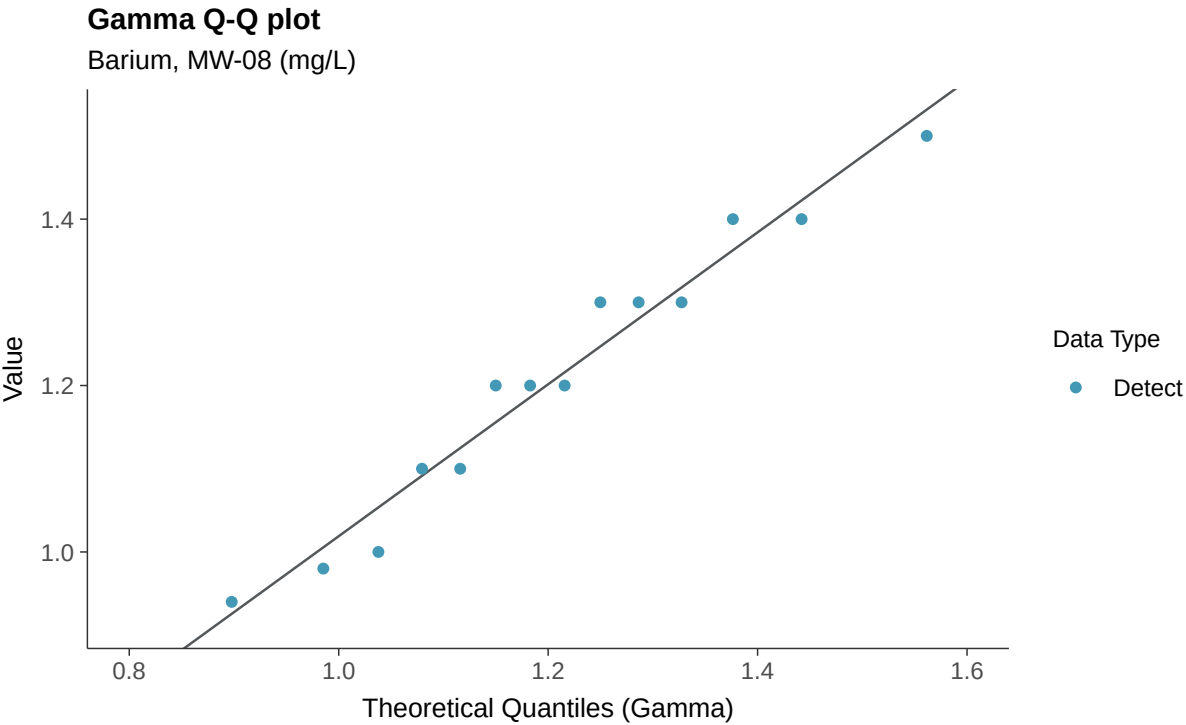
Appendix IV: Barium, MW-08

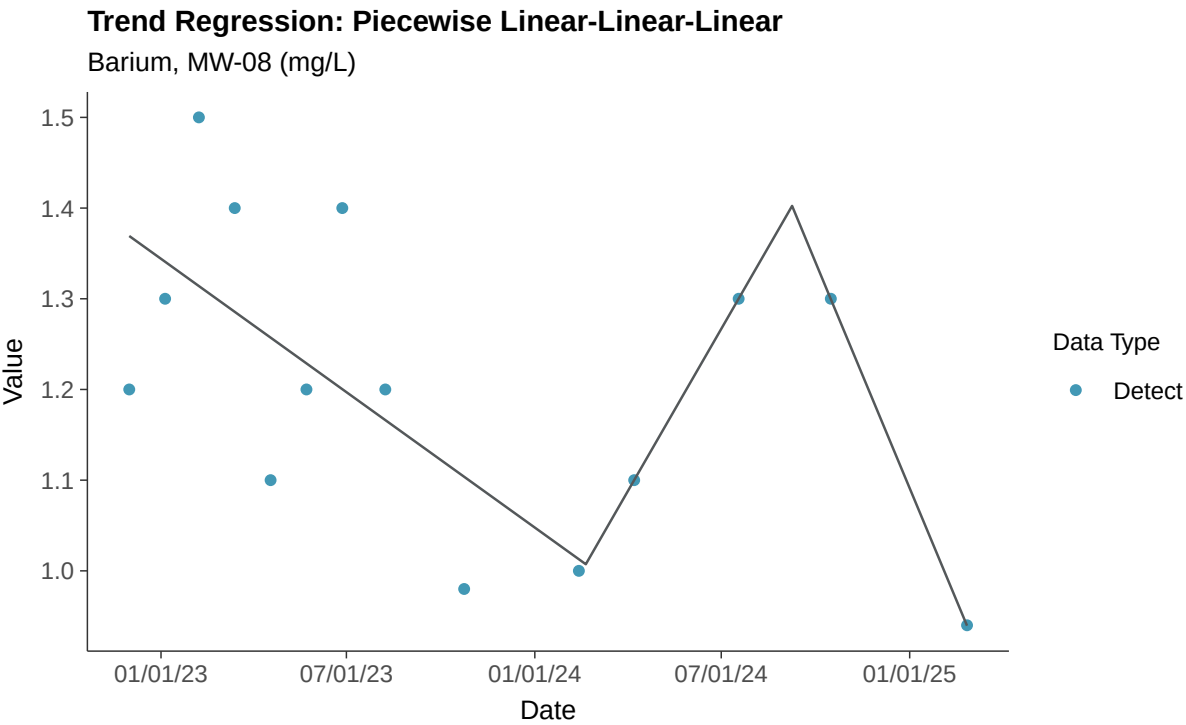
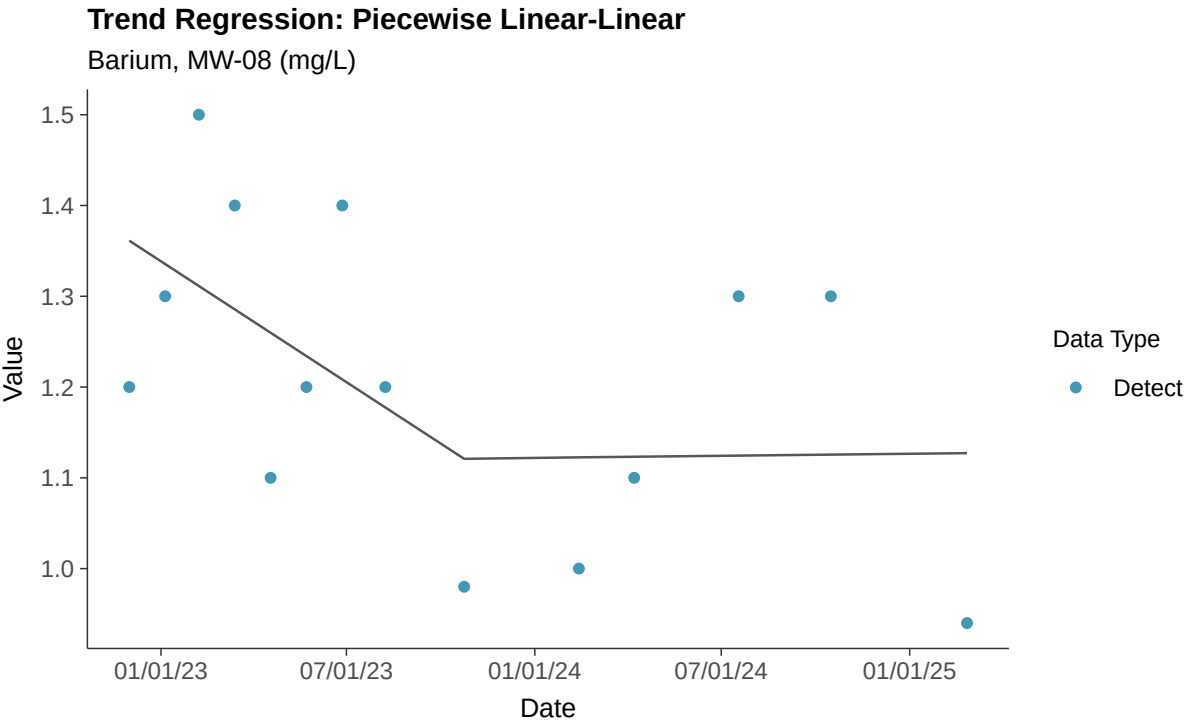
ID: 18_1_4_103







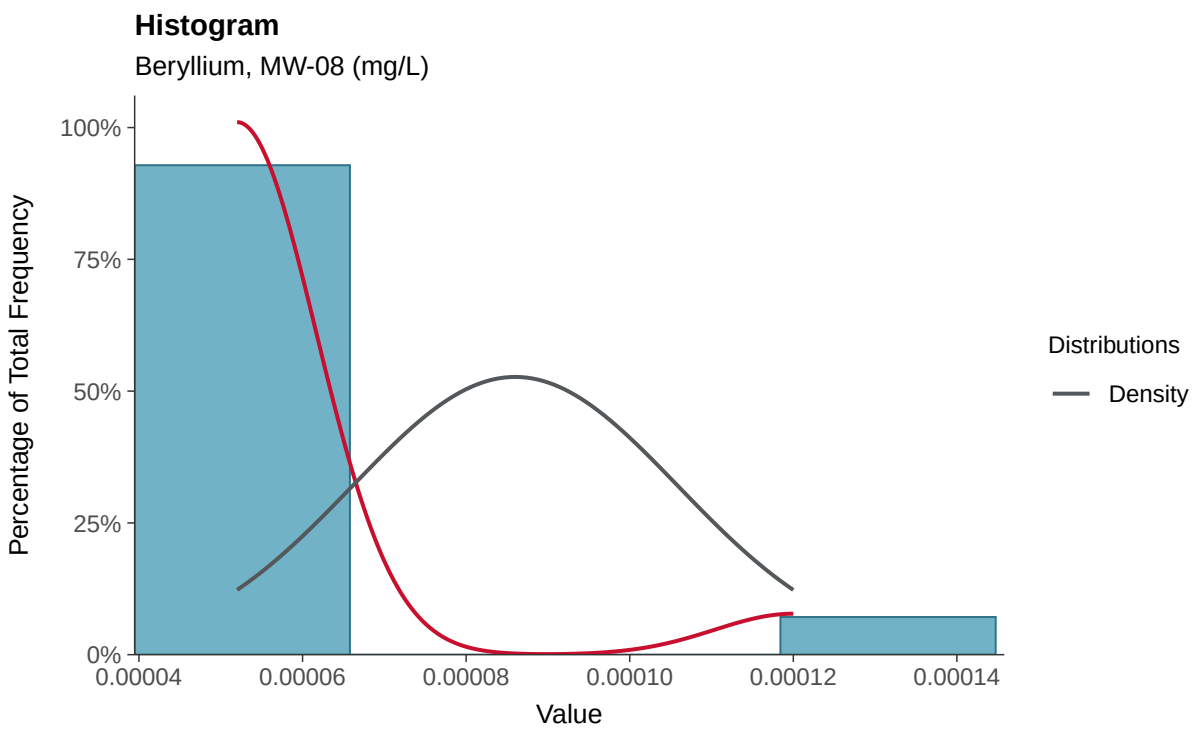
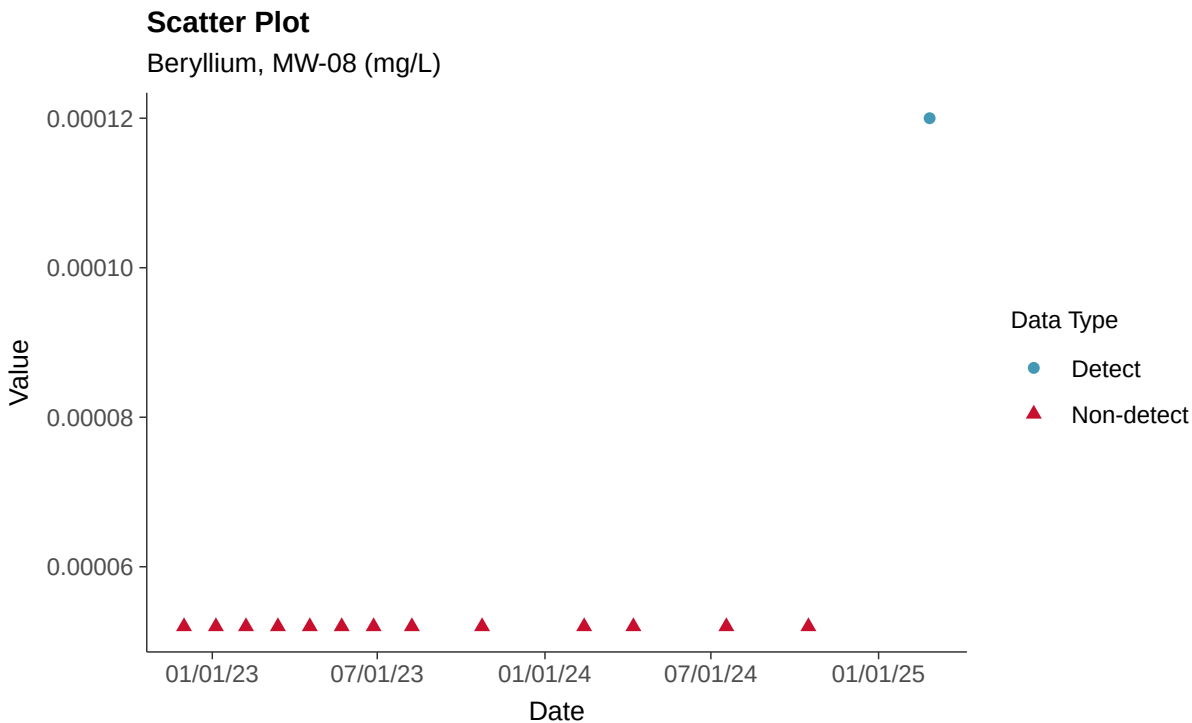


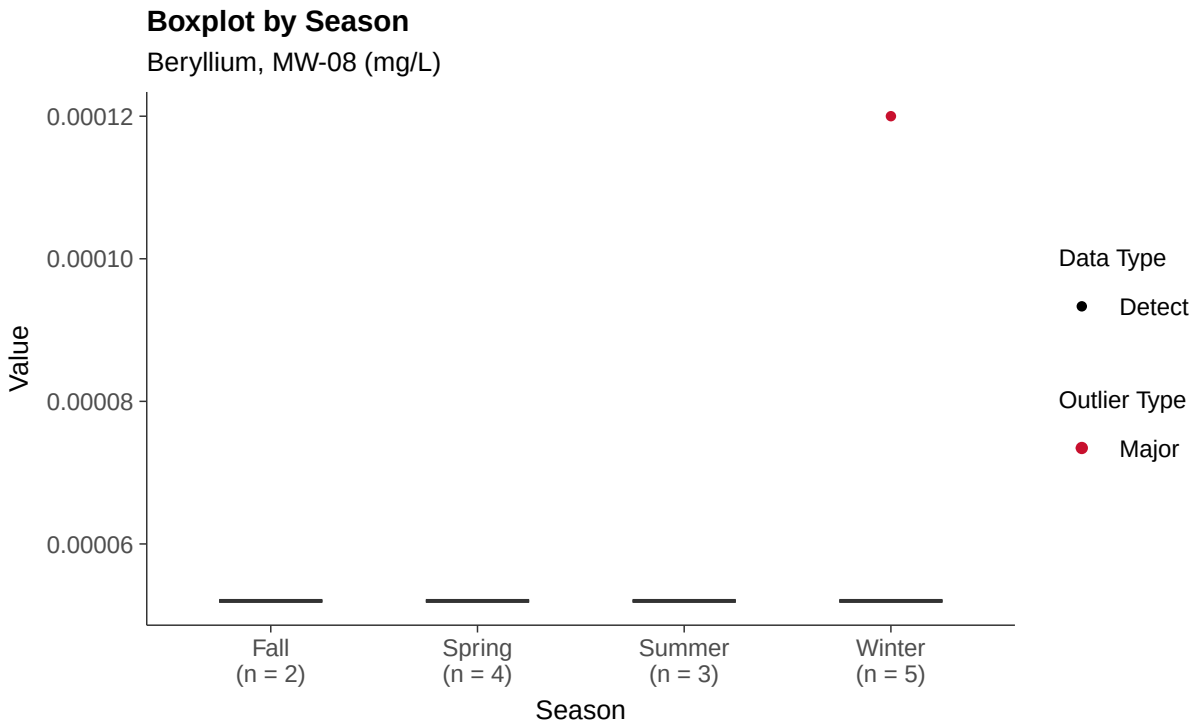
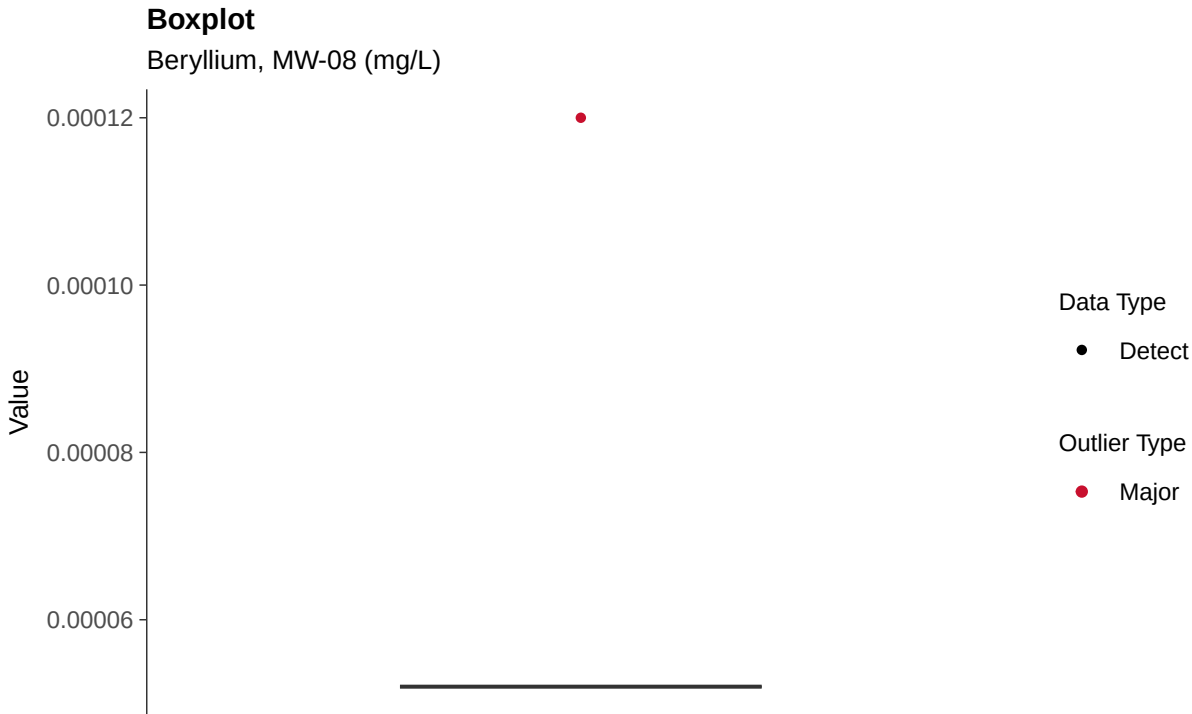


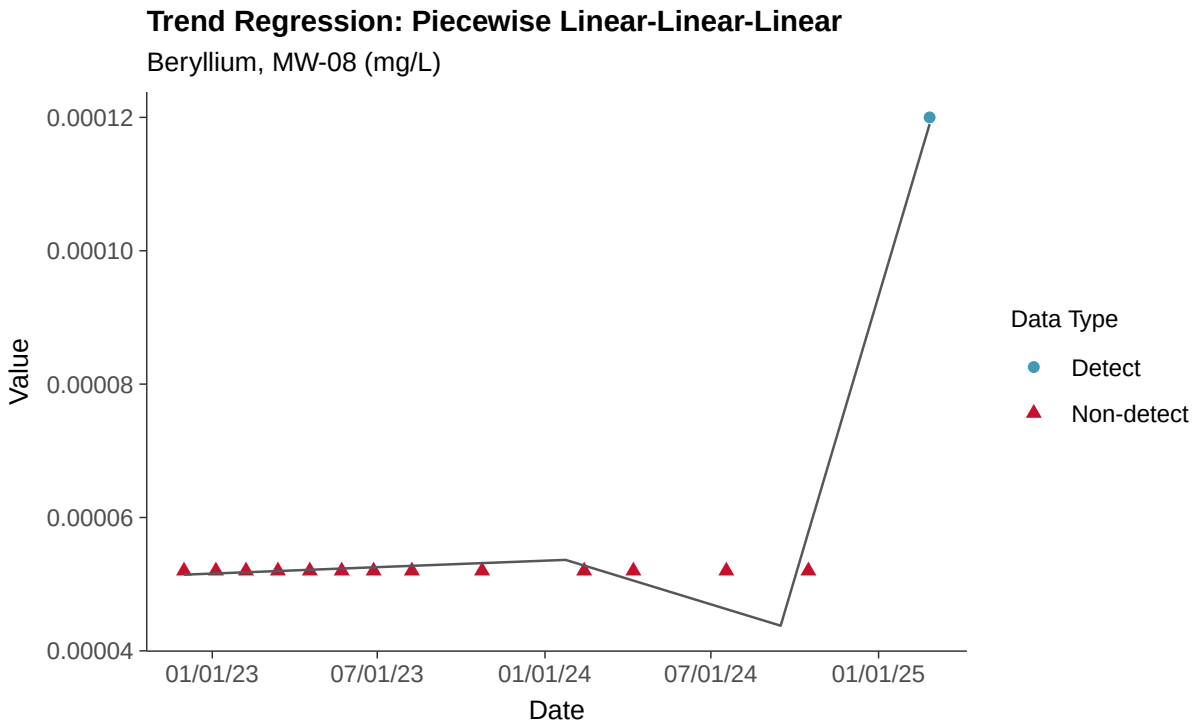
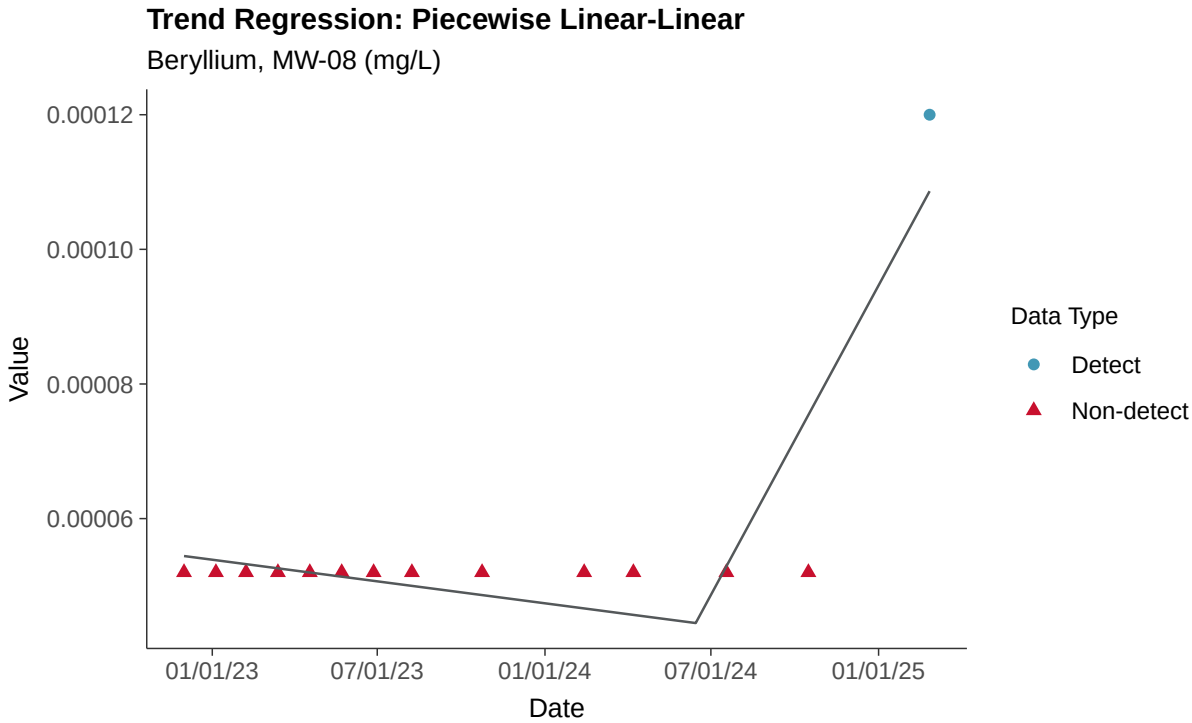


Appendix IV: Beryllium, MW-08

ID: 18_1_4_104



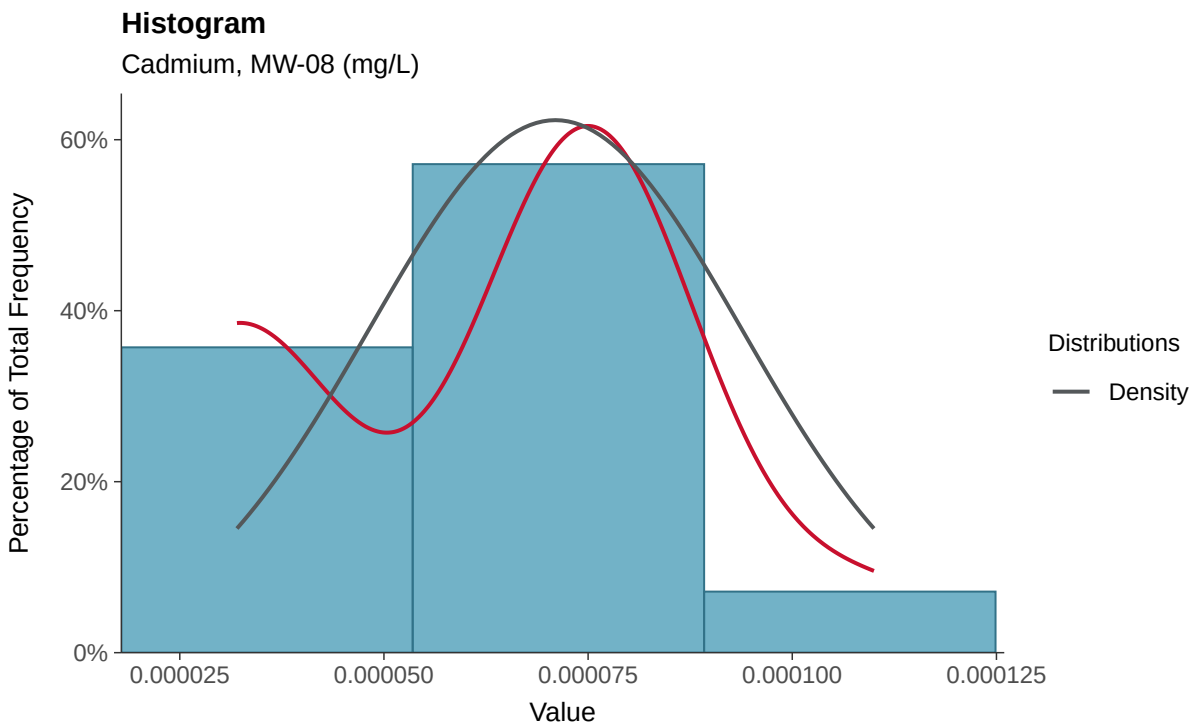
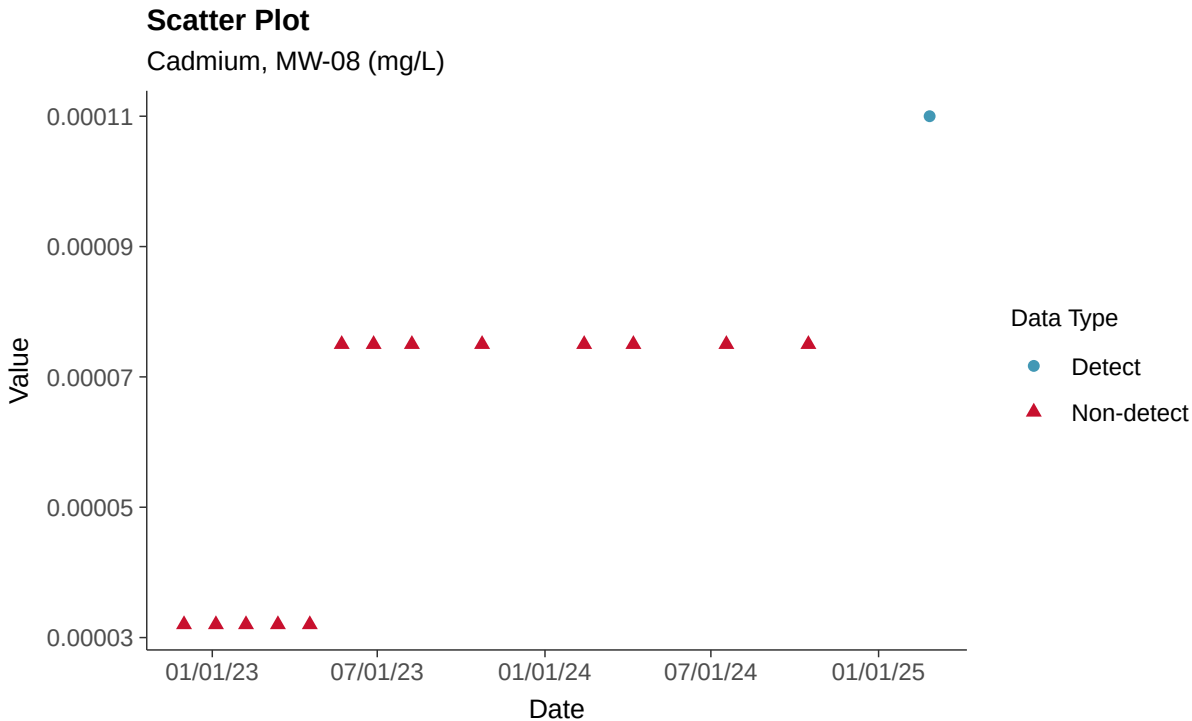


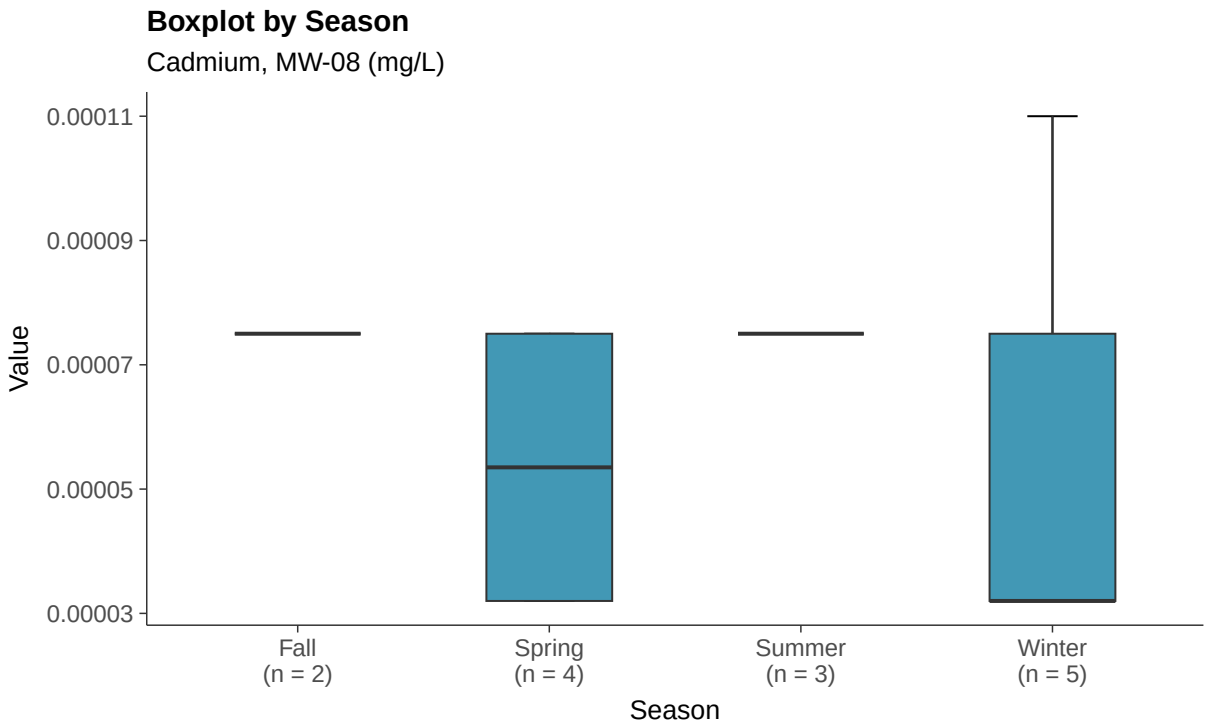
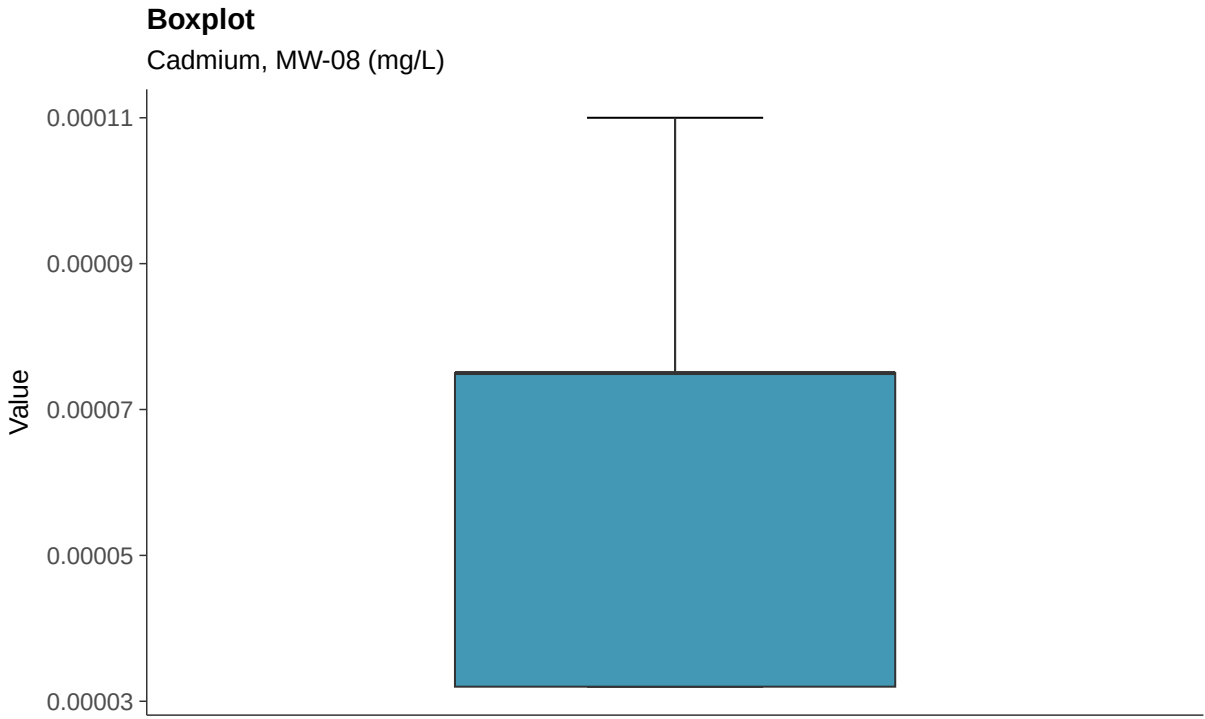


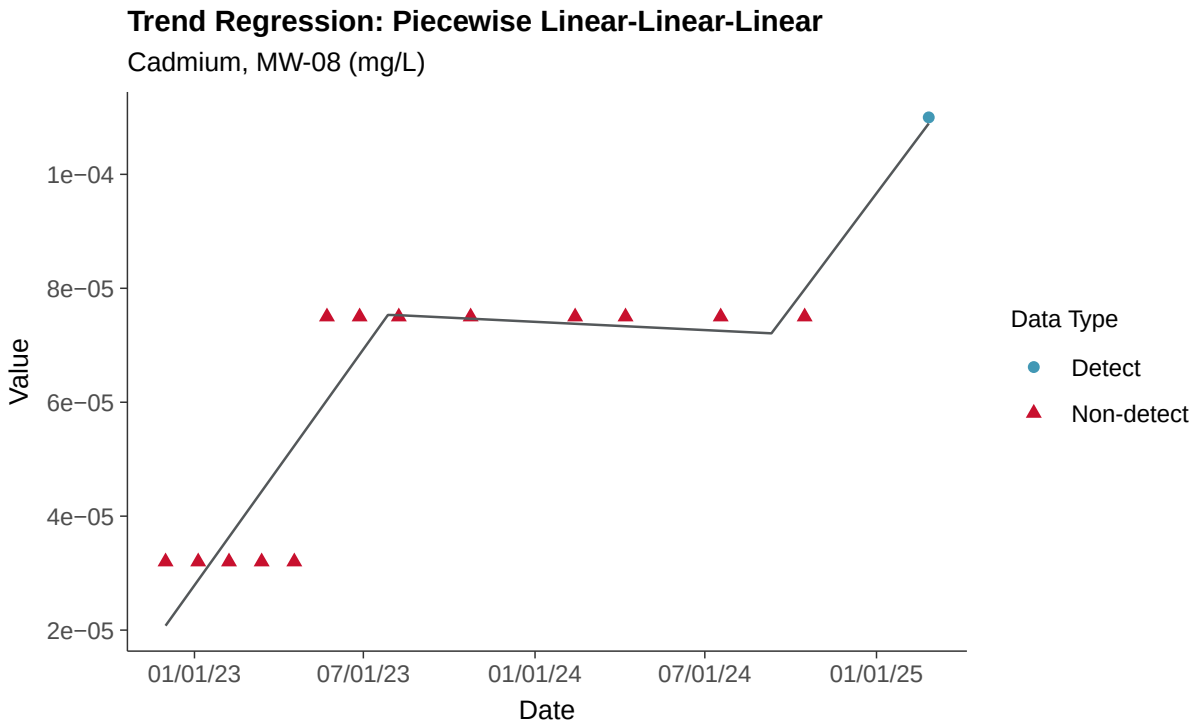
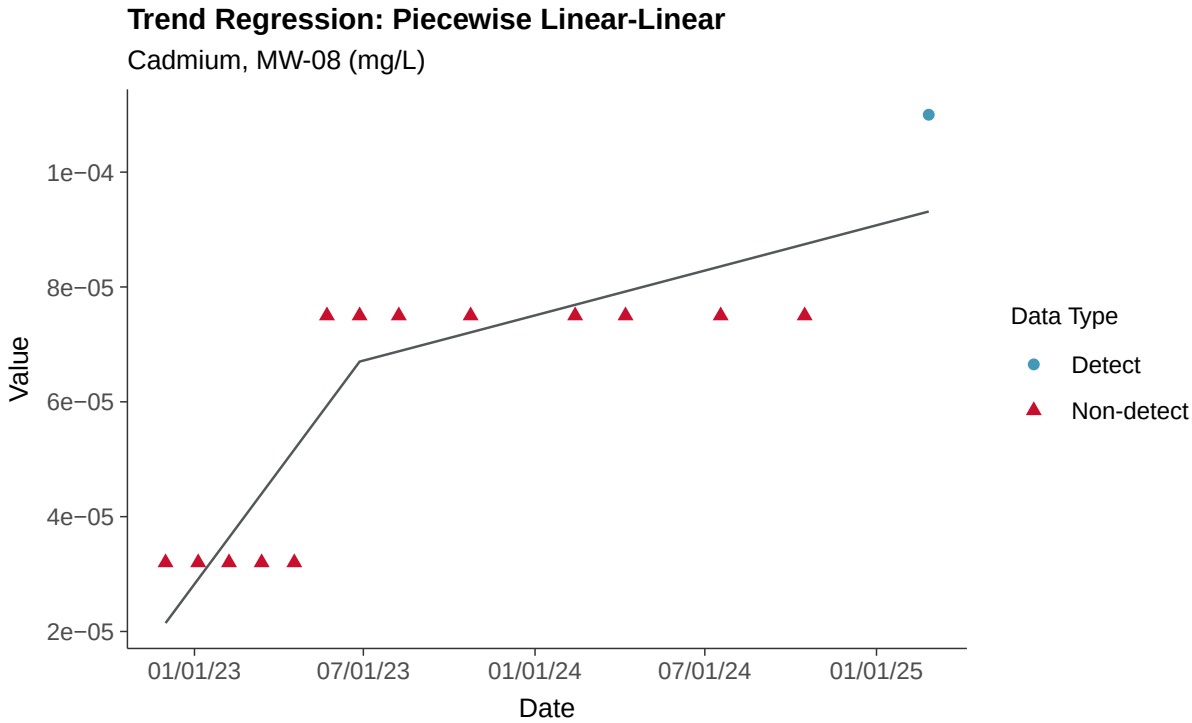


Appendix IV: Cadmium, MW-08

ID: 18_1_4_106



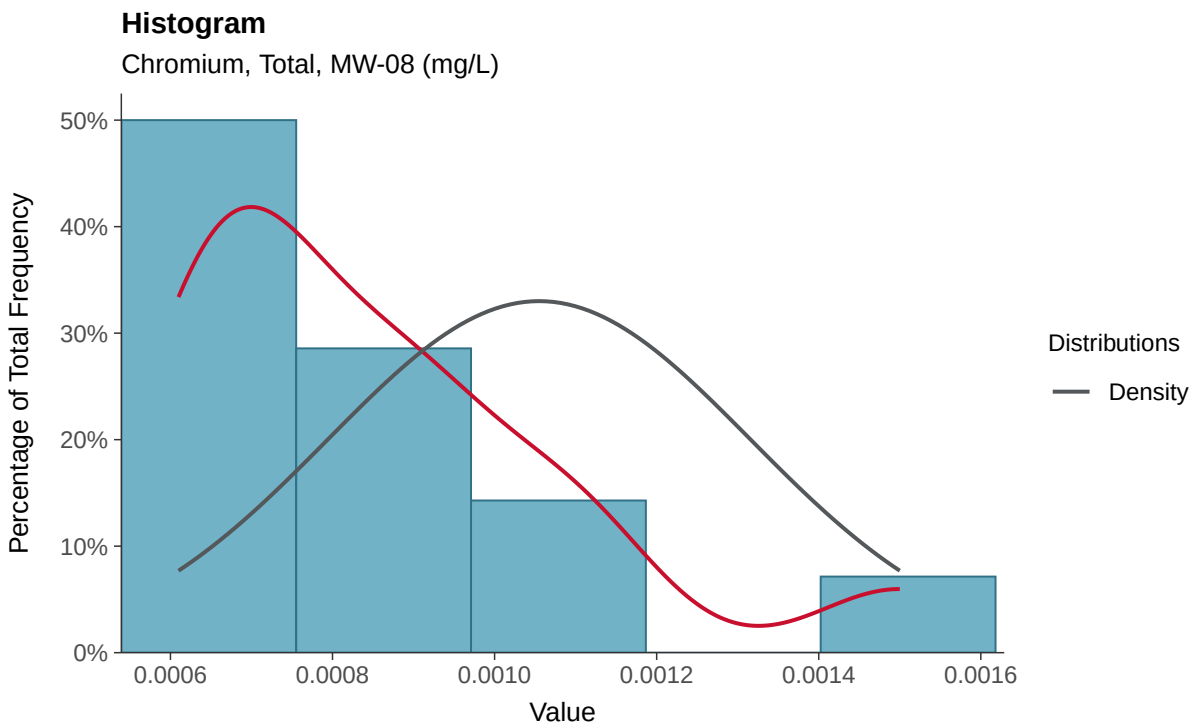
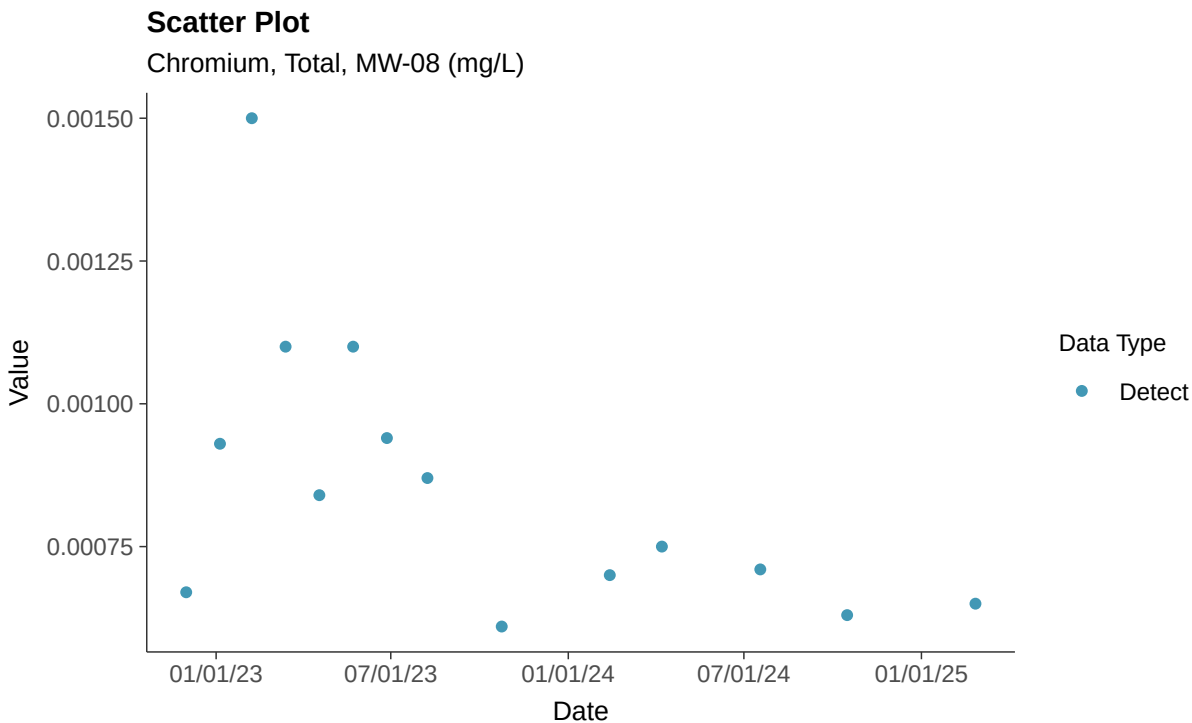


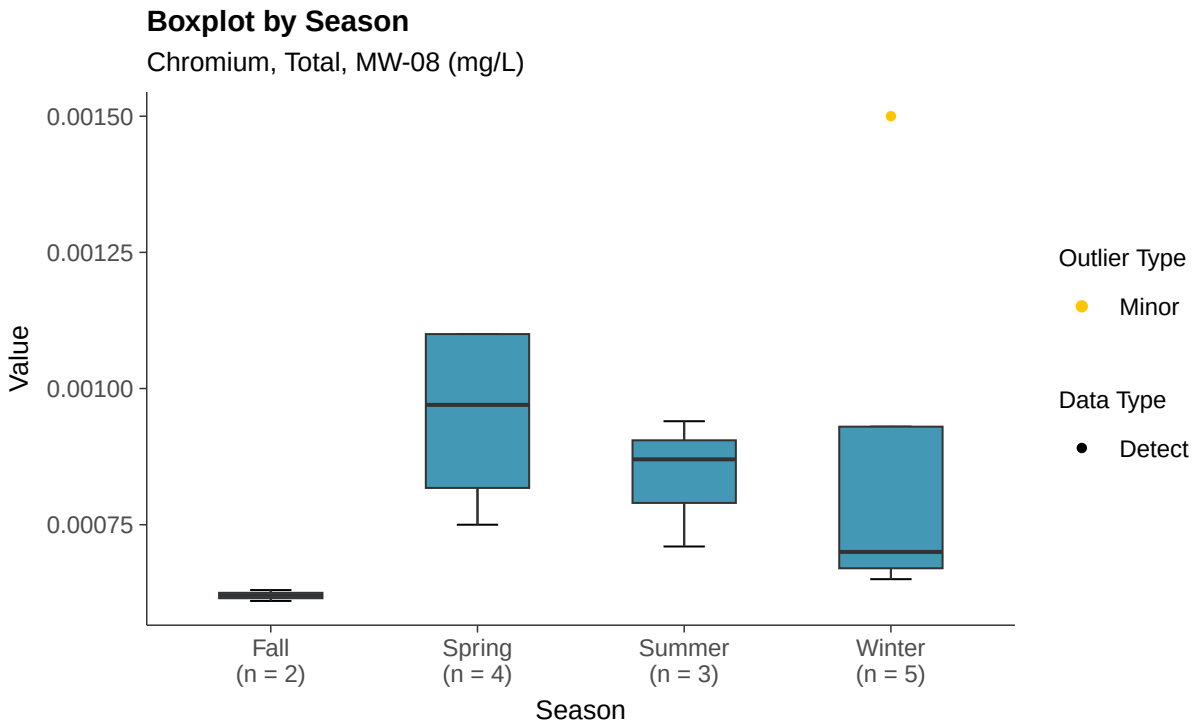
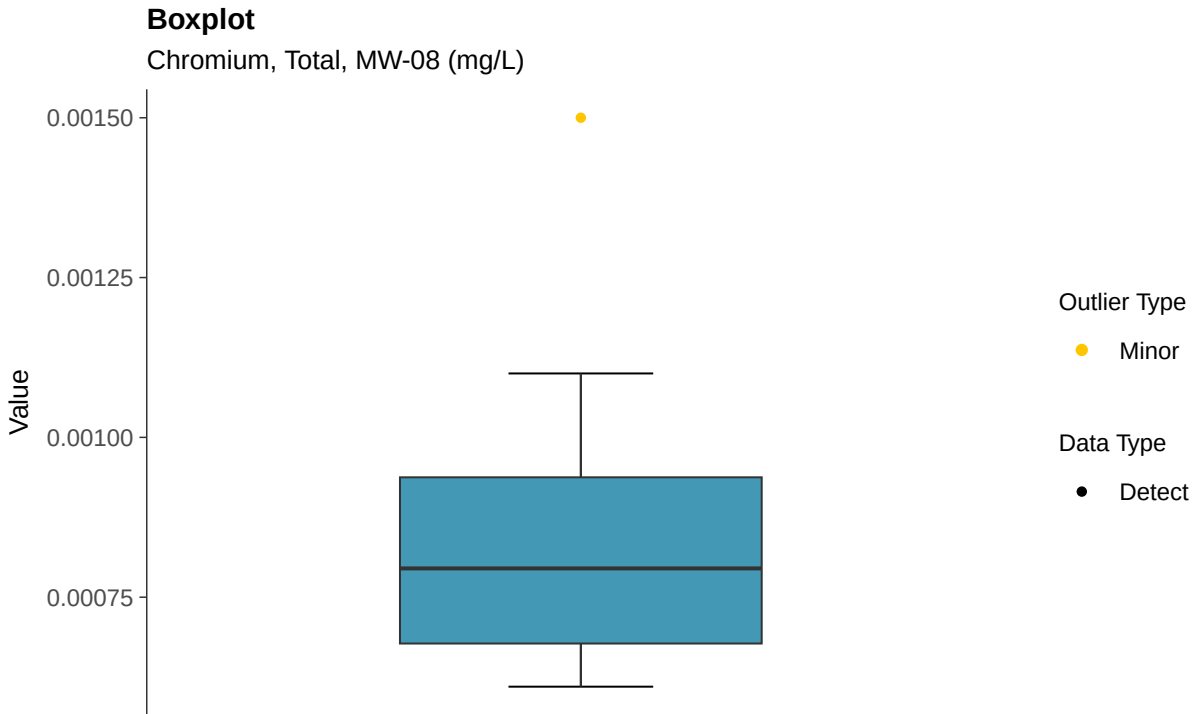


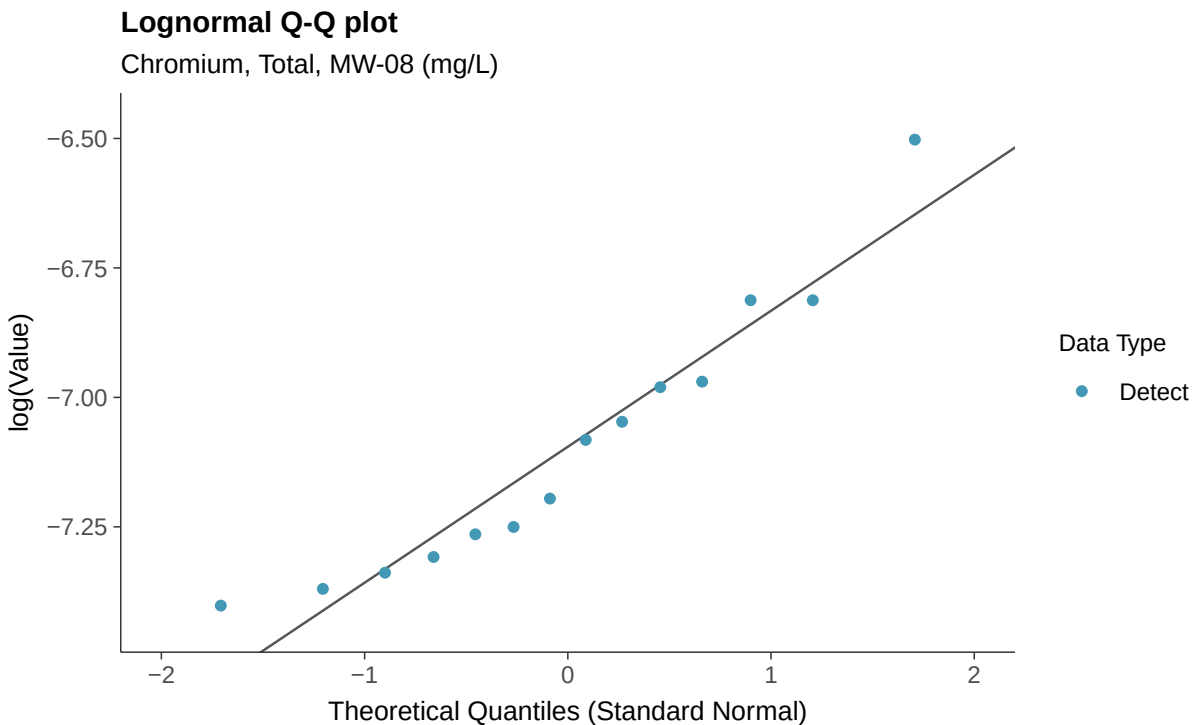
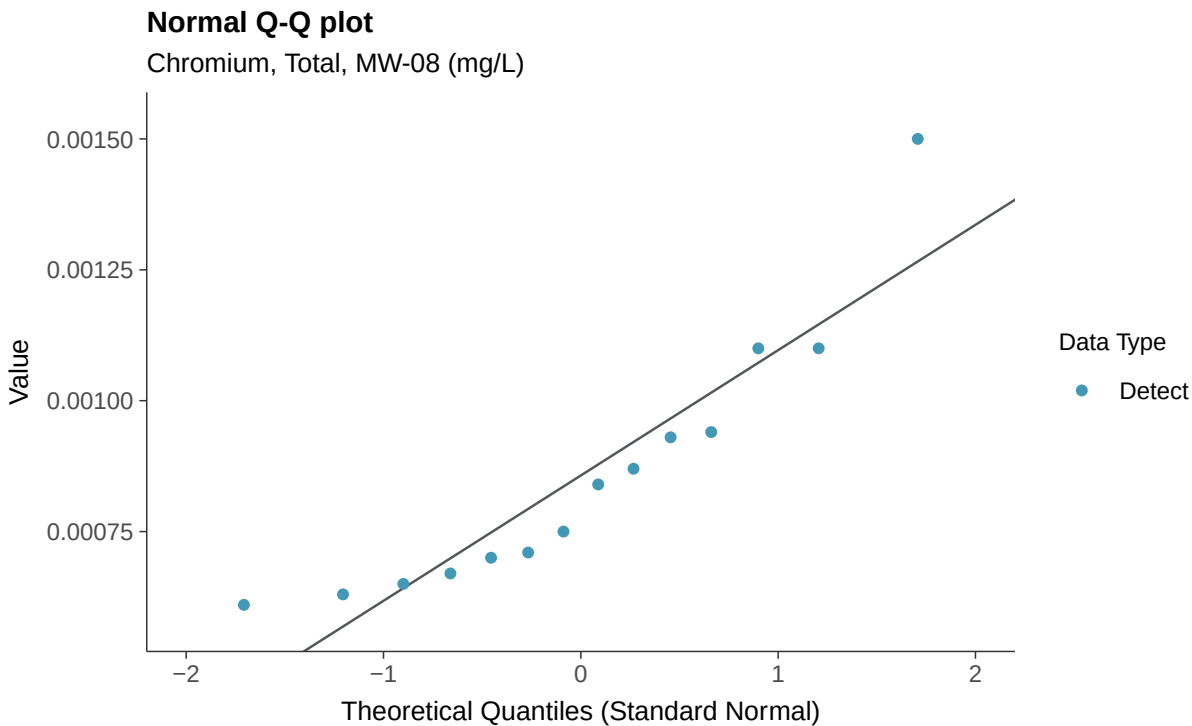


Appendix IV: Chromium, Total, MW-08

ID: 18_1_4_109



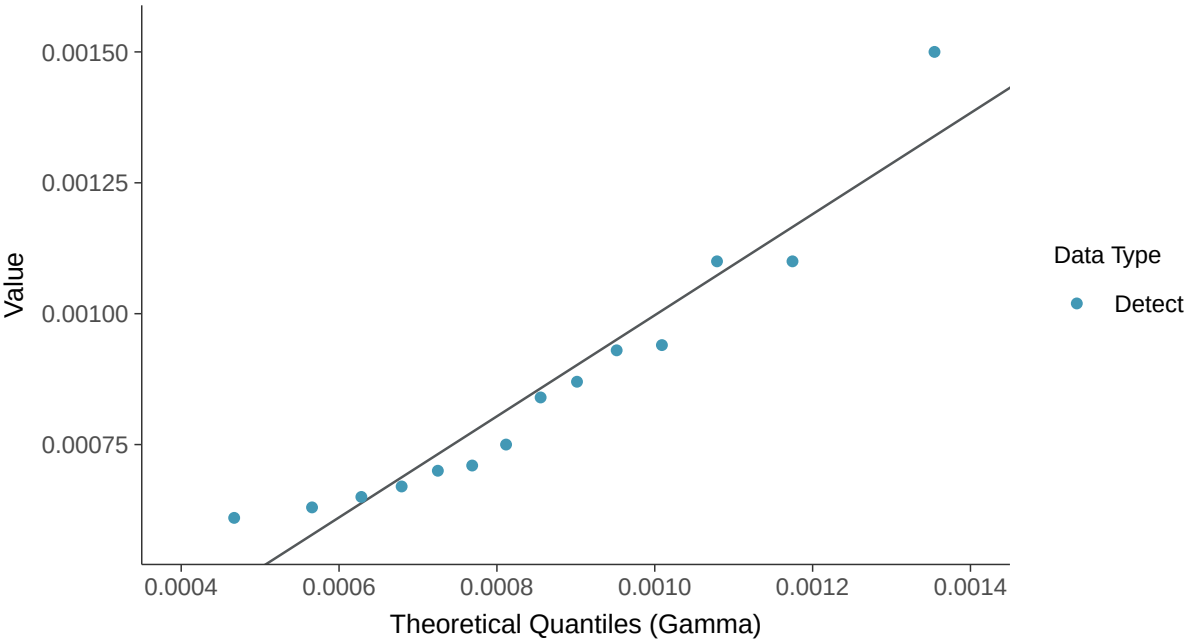






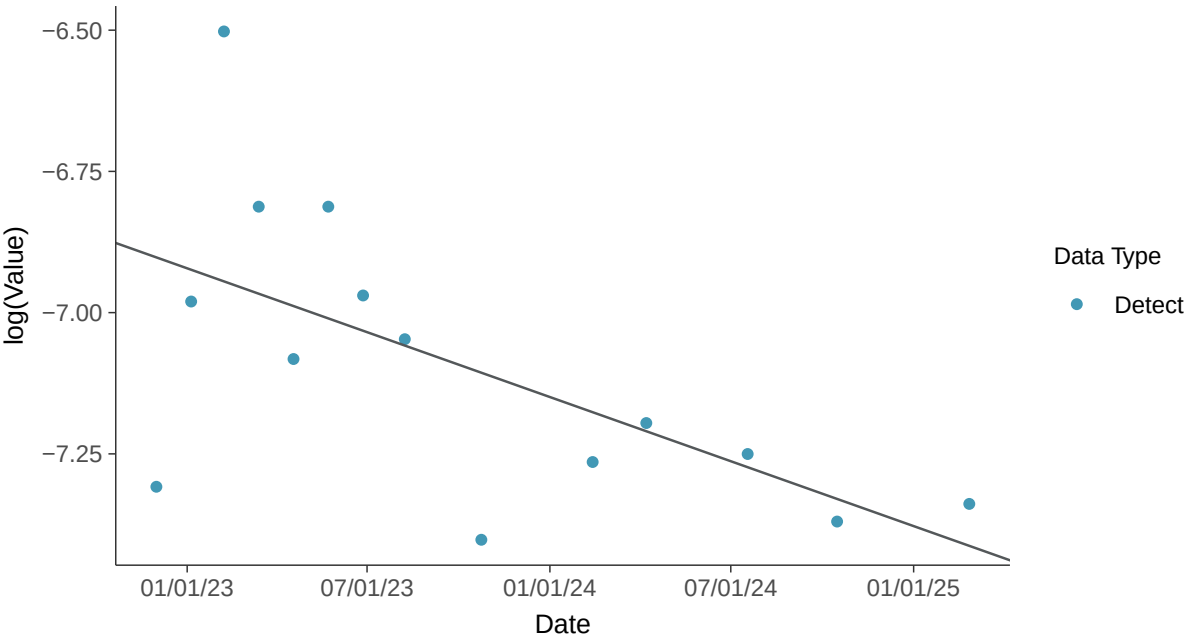
Gamma Q-Q plot

Chromium, Total, MW-08 (mg/L)



Trend Regression: Lognormal MLE

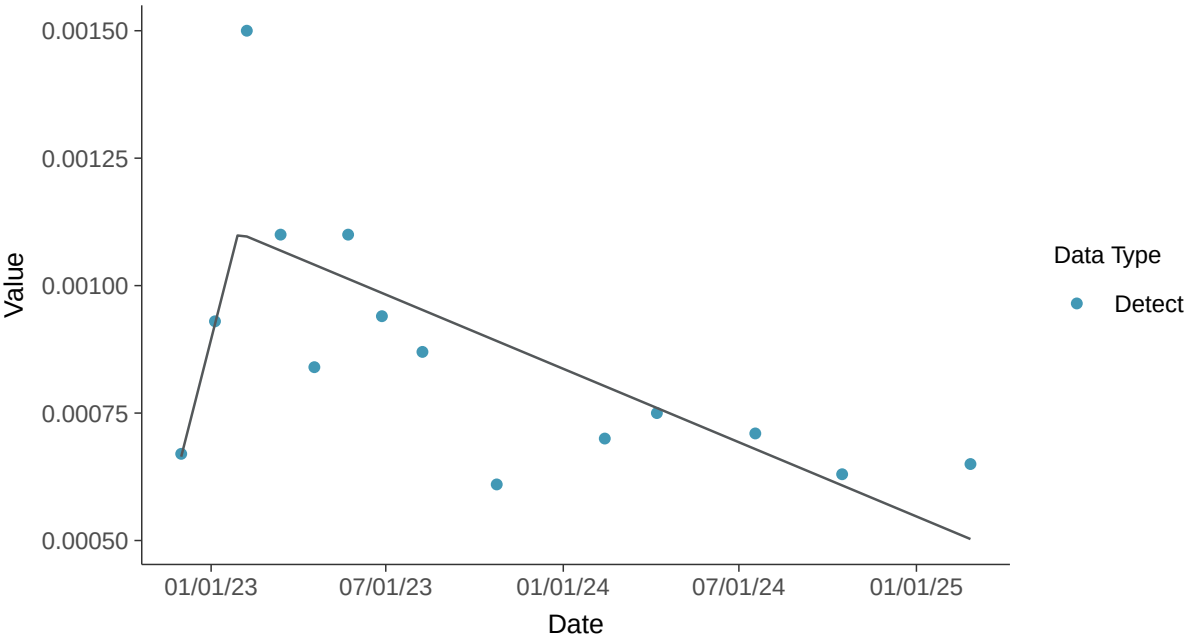
Chromium, Total, MW-08 (mg/L)





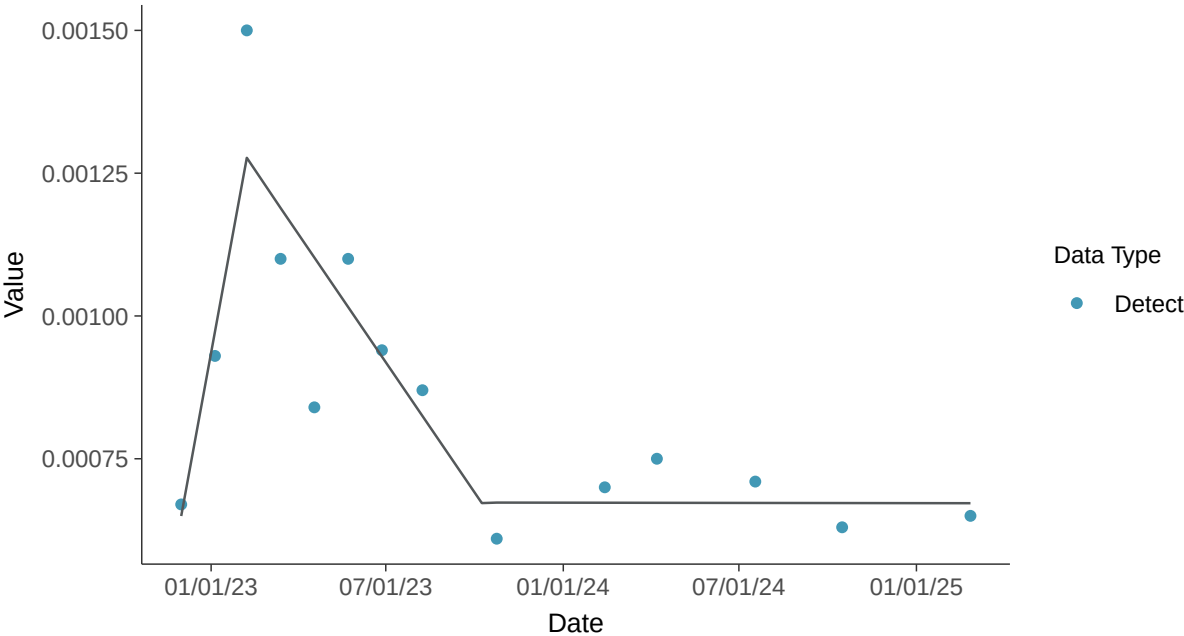
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

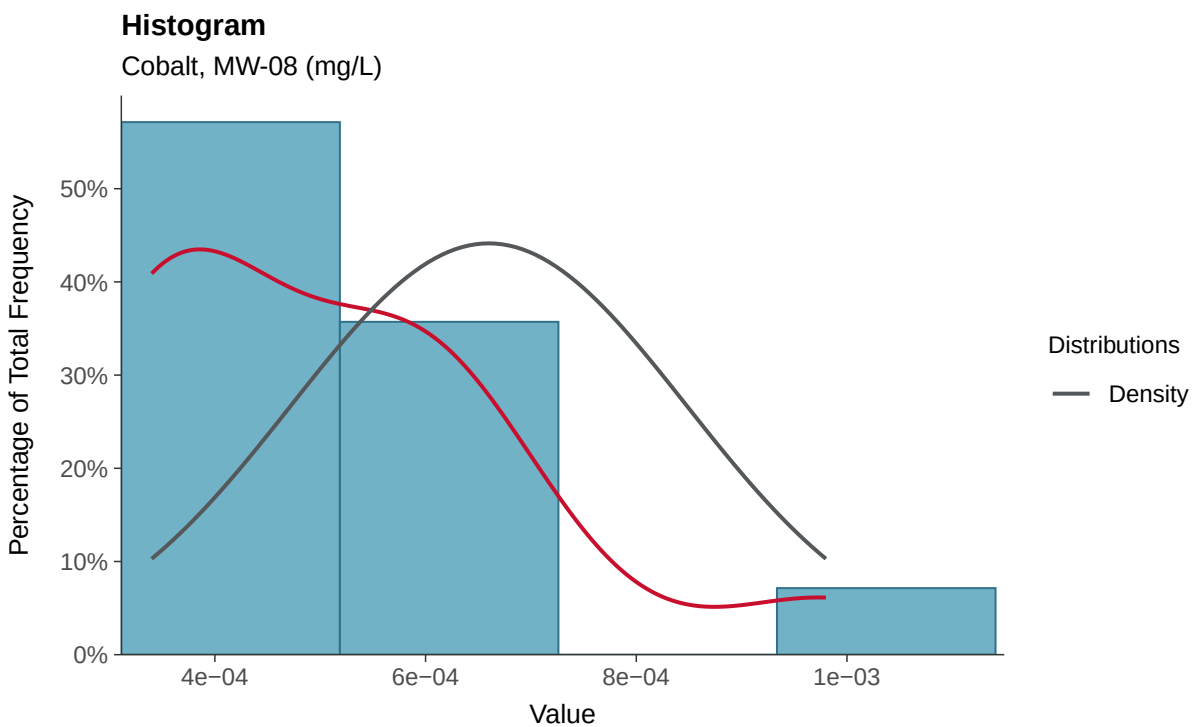
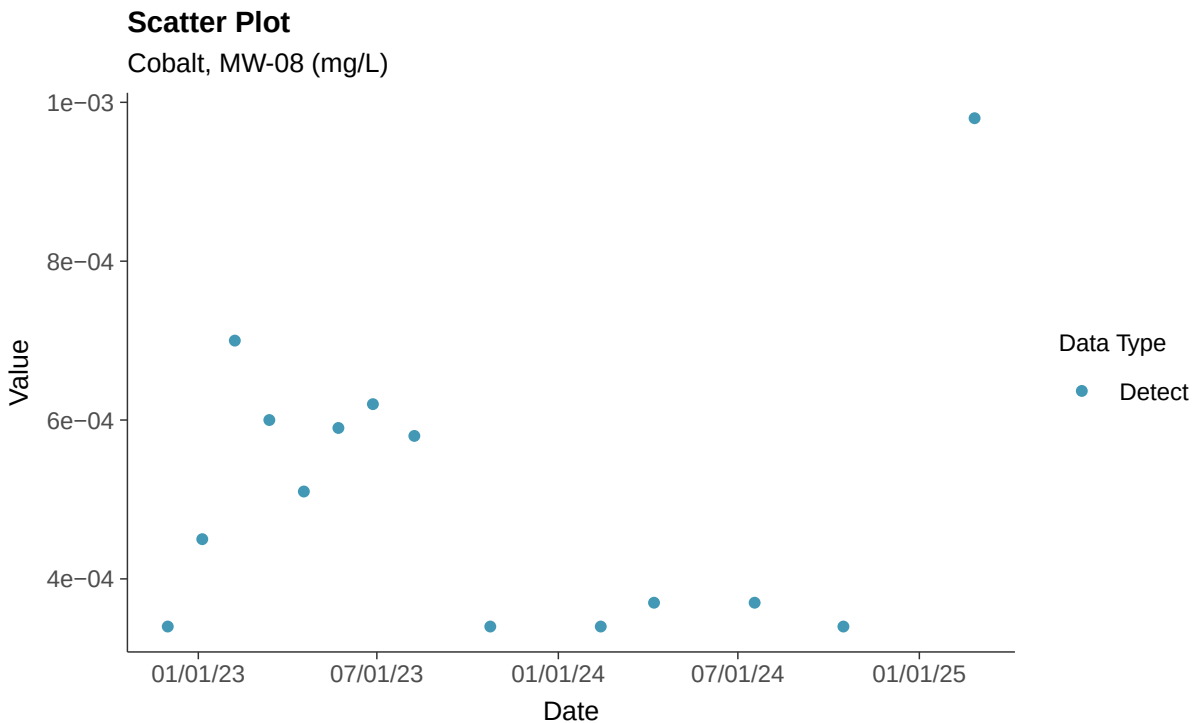
Chromium, Total, MW-08 (mg/L)

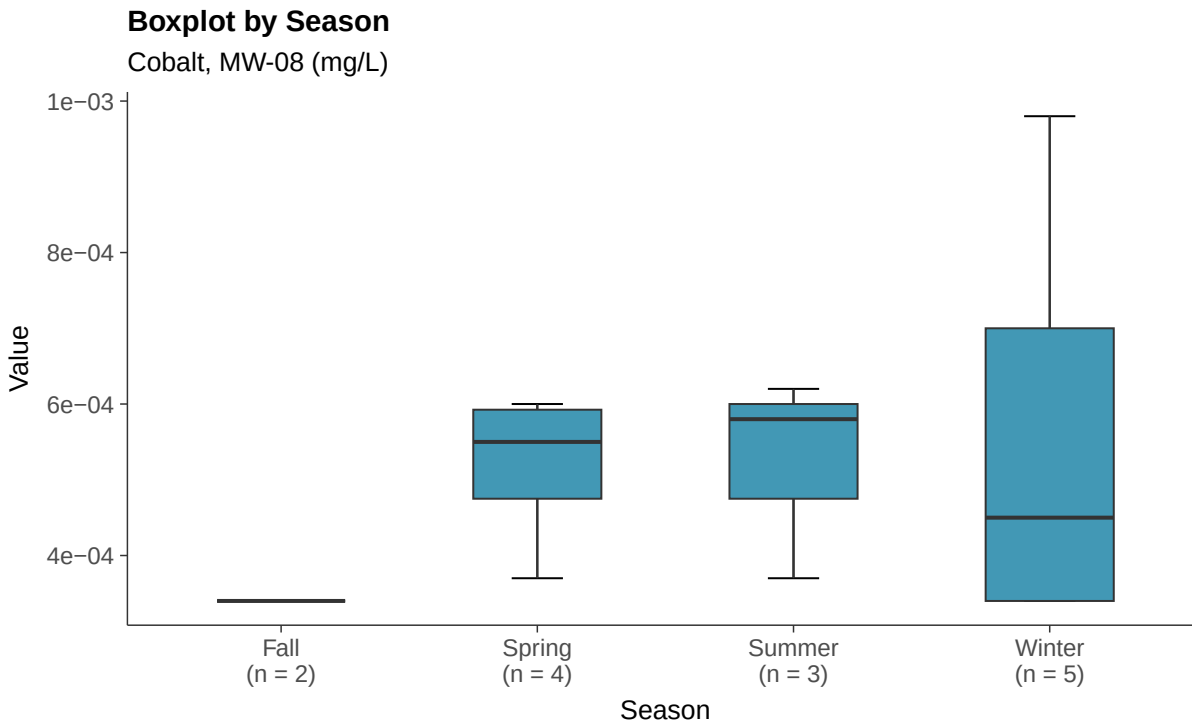
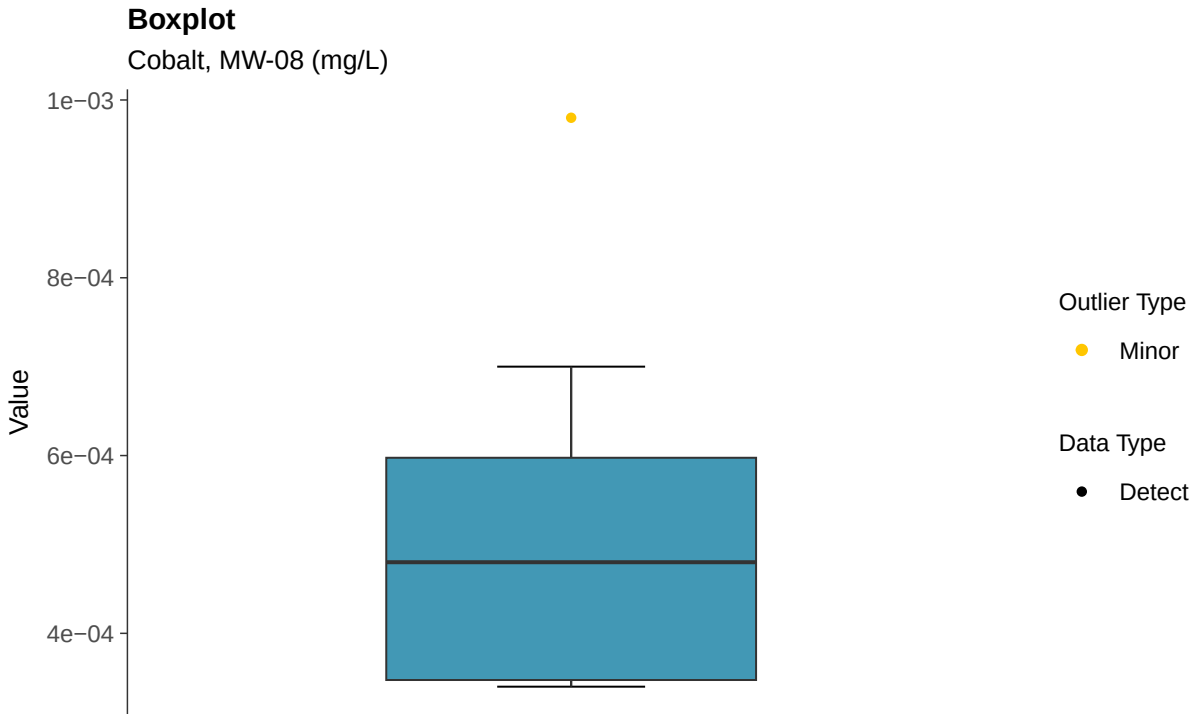


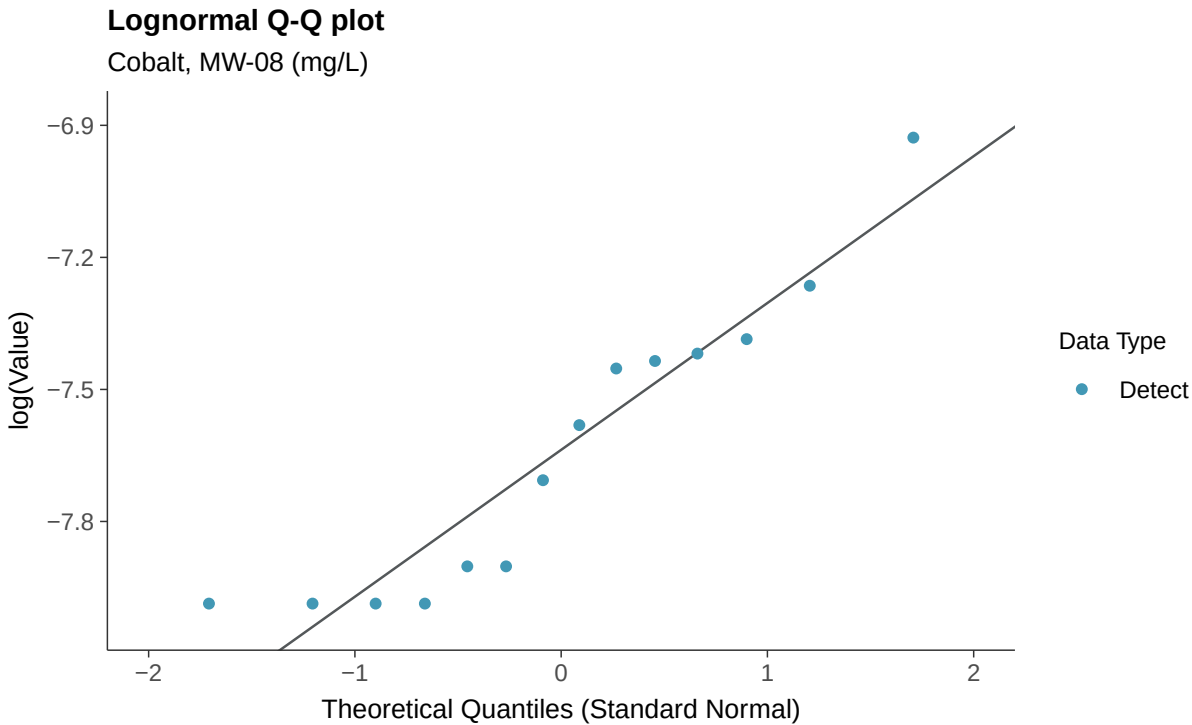
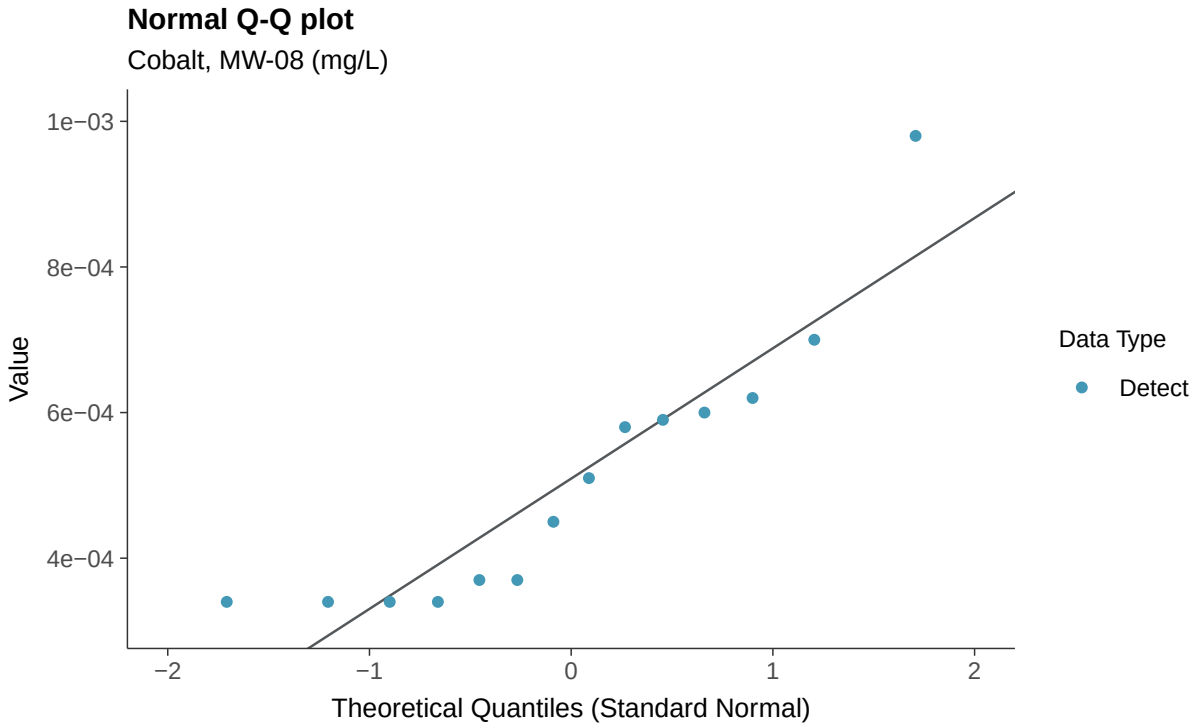


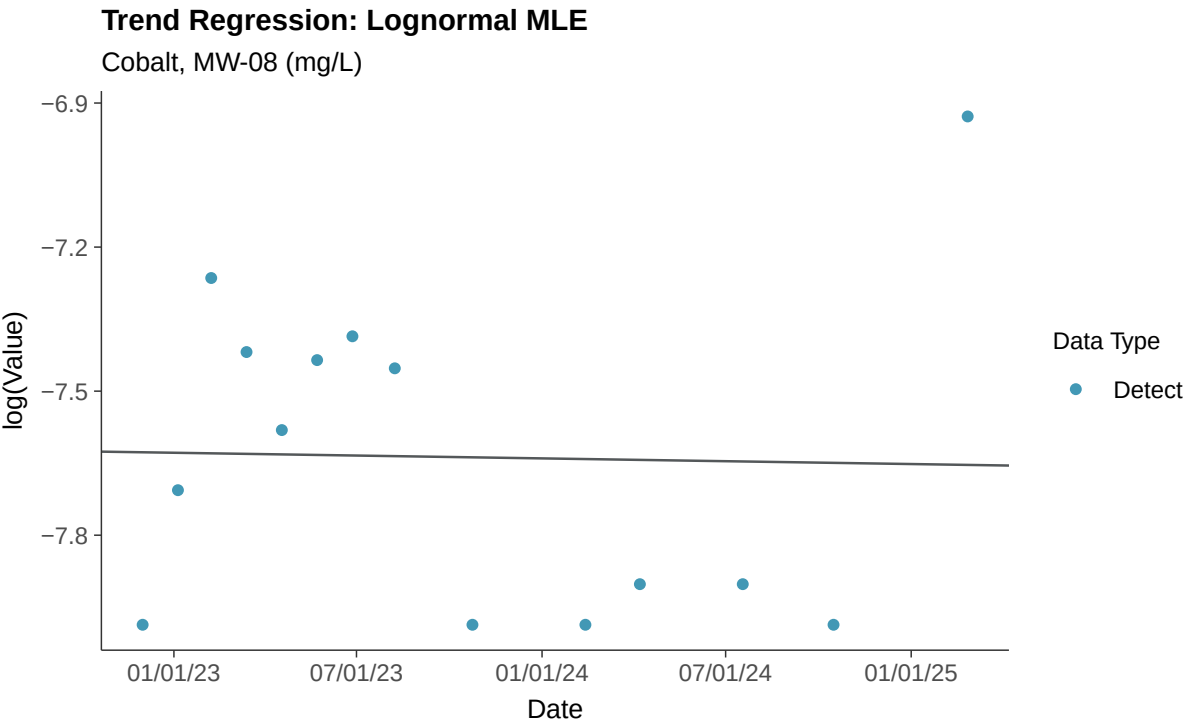
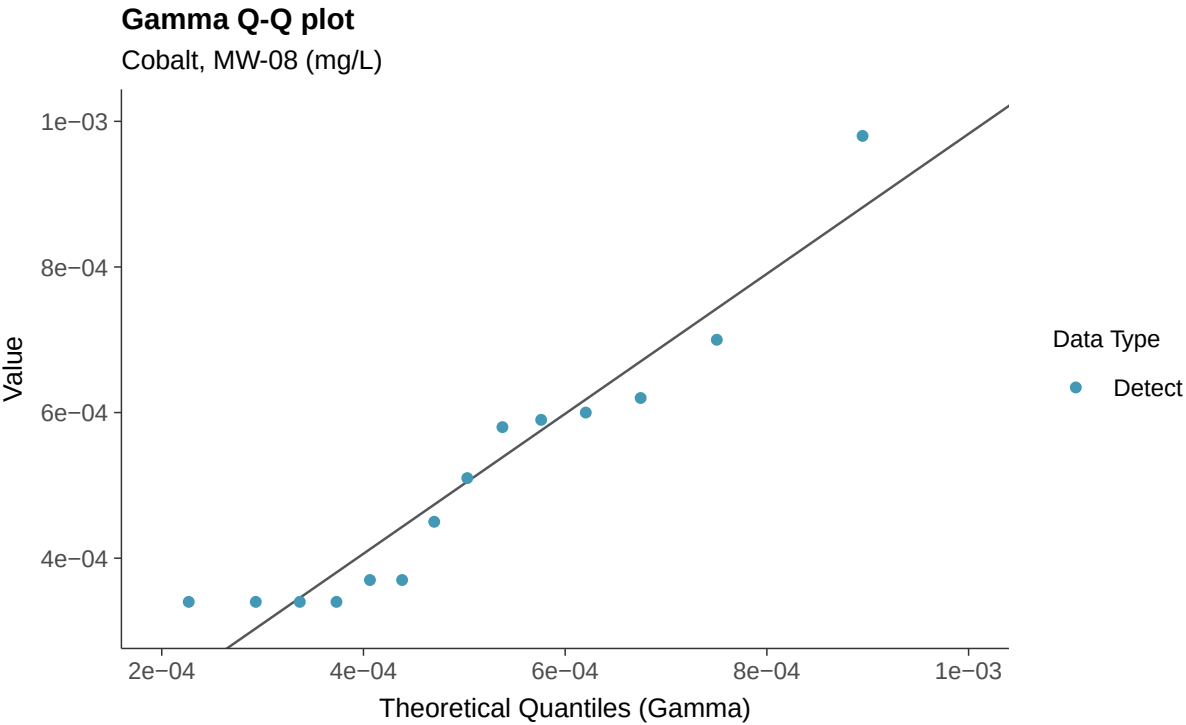
Appendix IV: Cobalt, MW-08

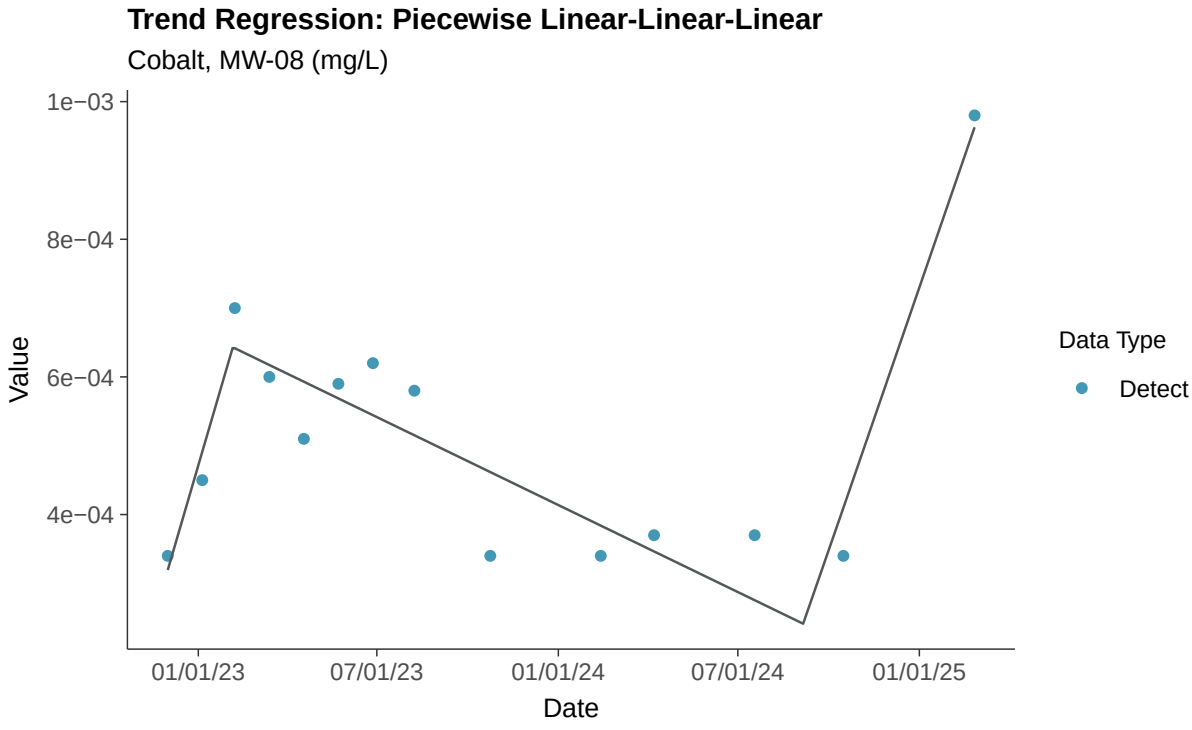
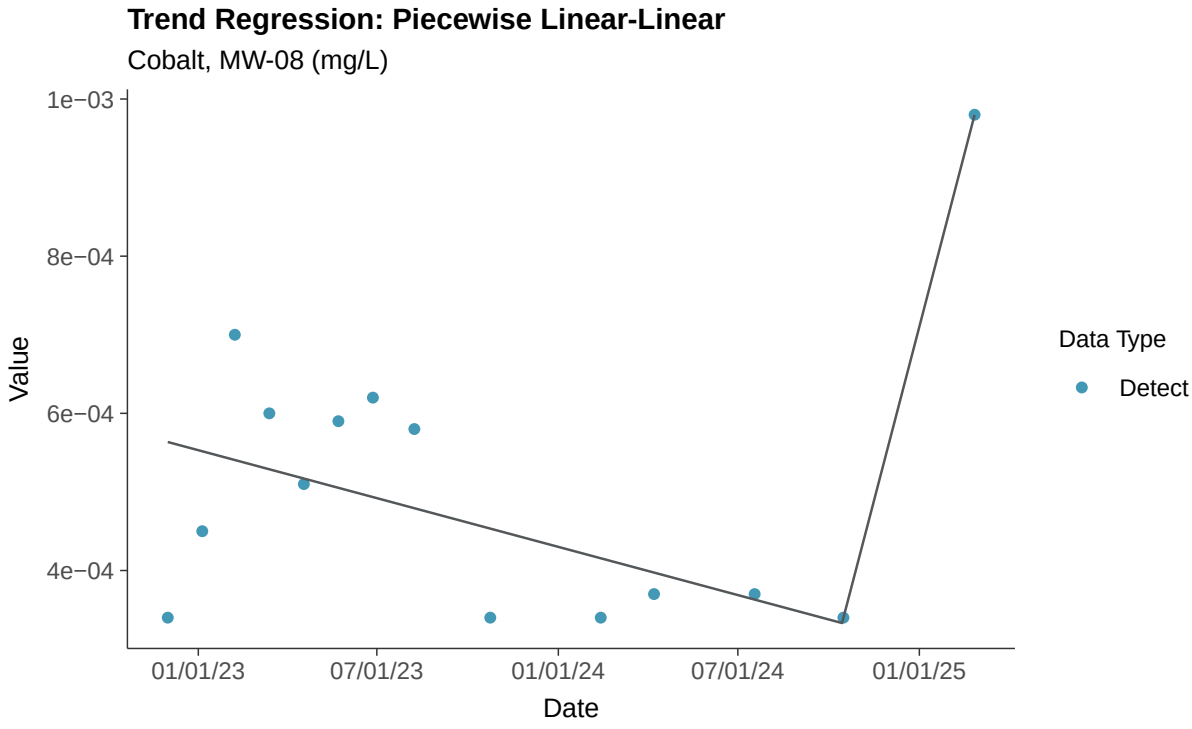
ID: 18_1_4_110







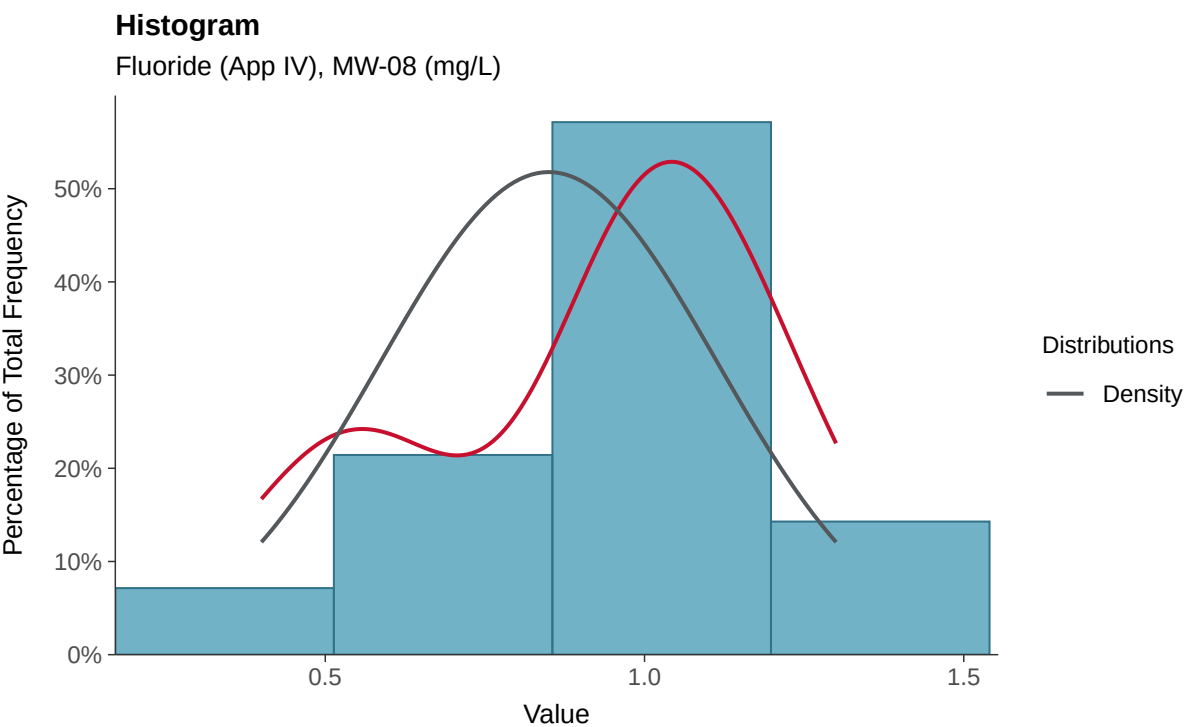
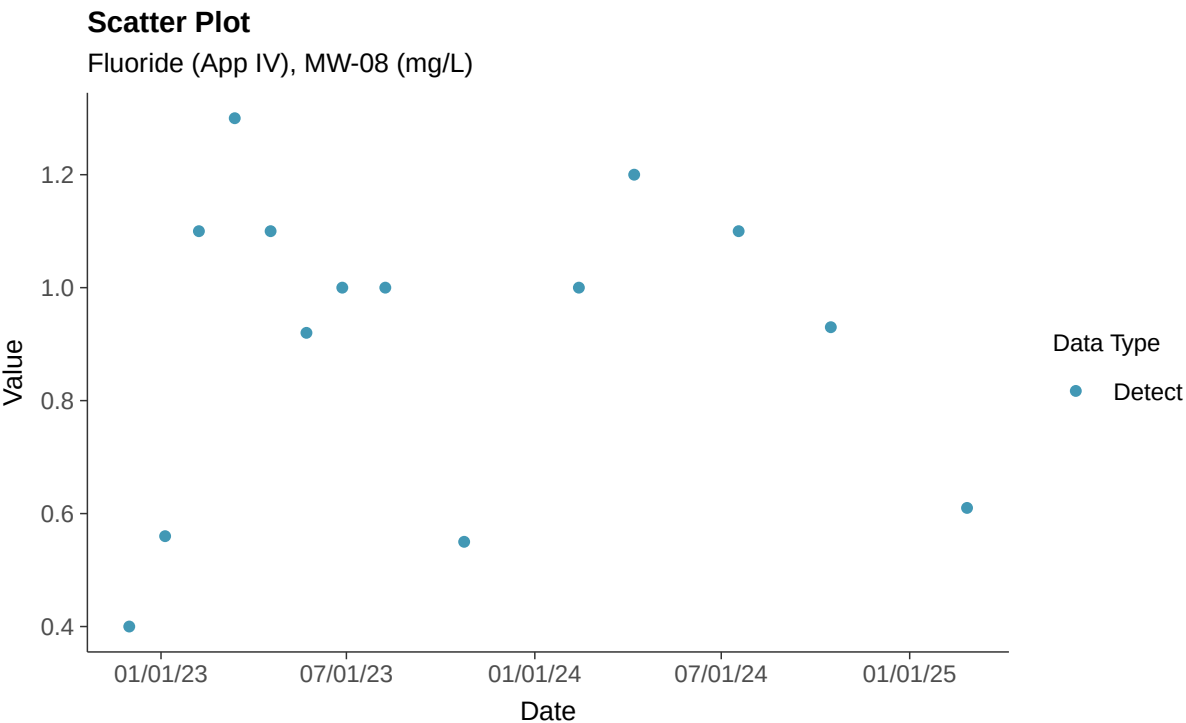


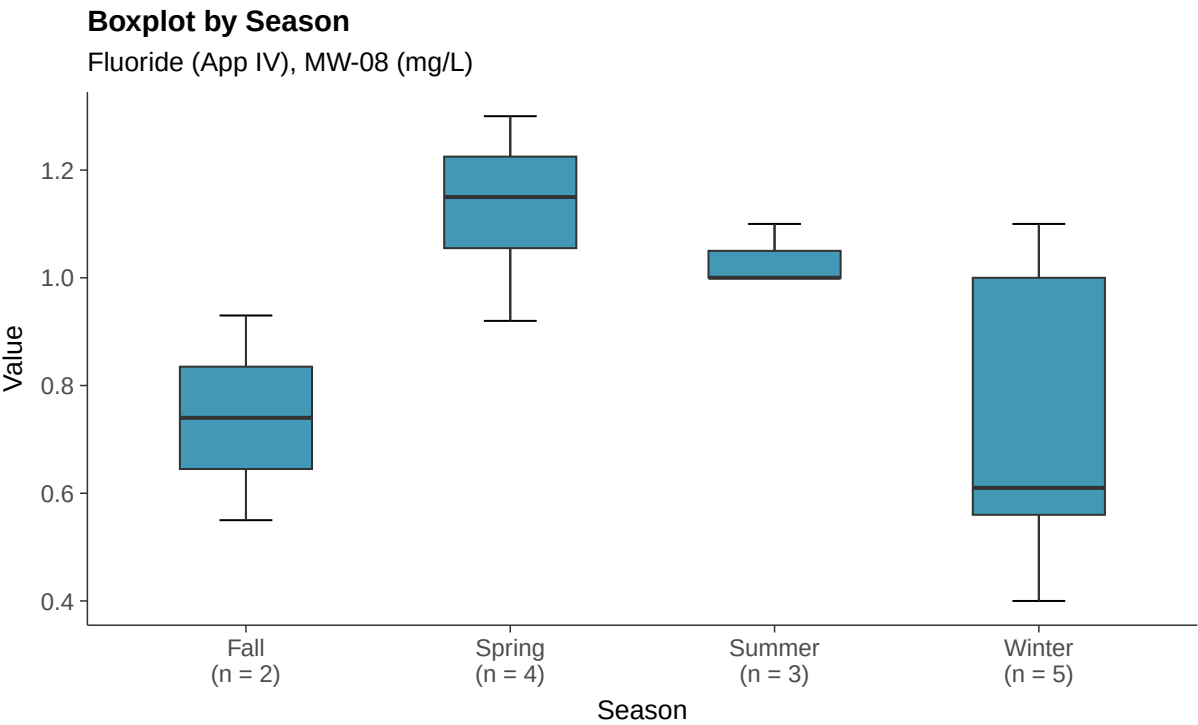
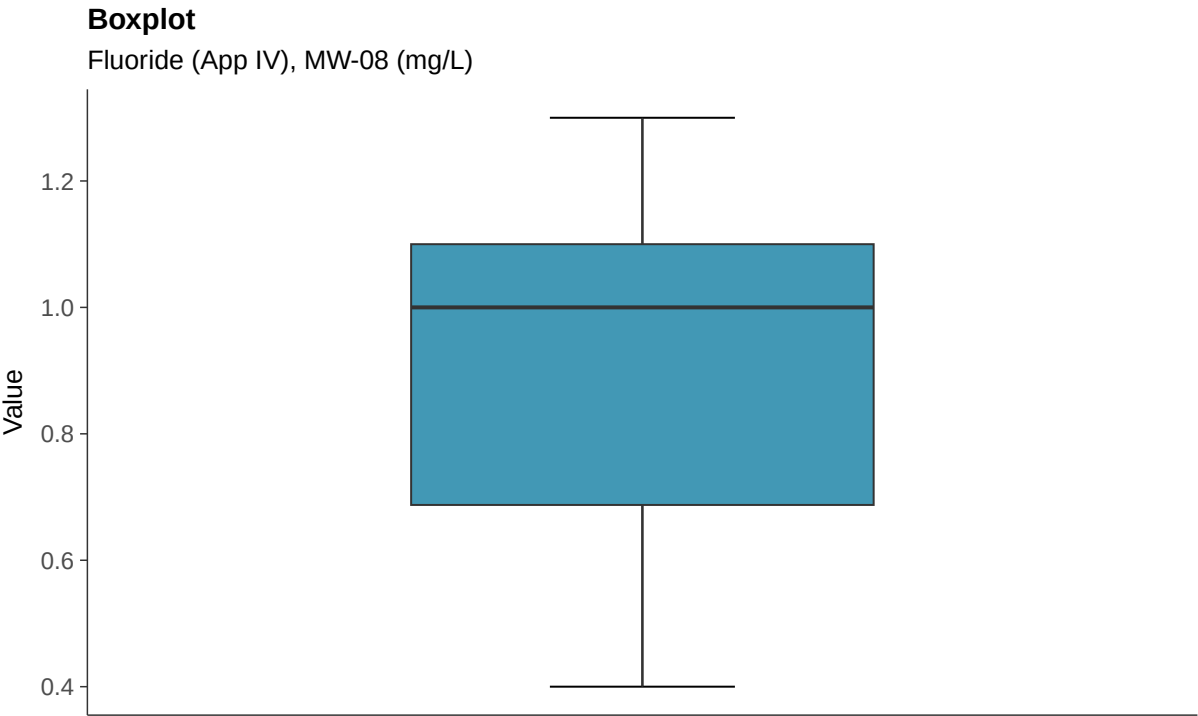


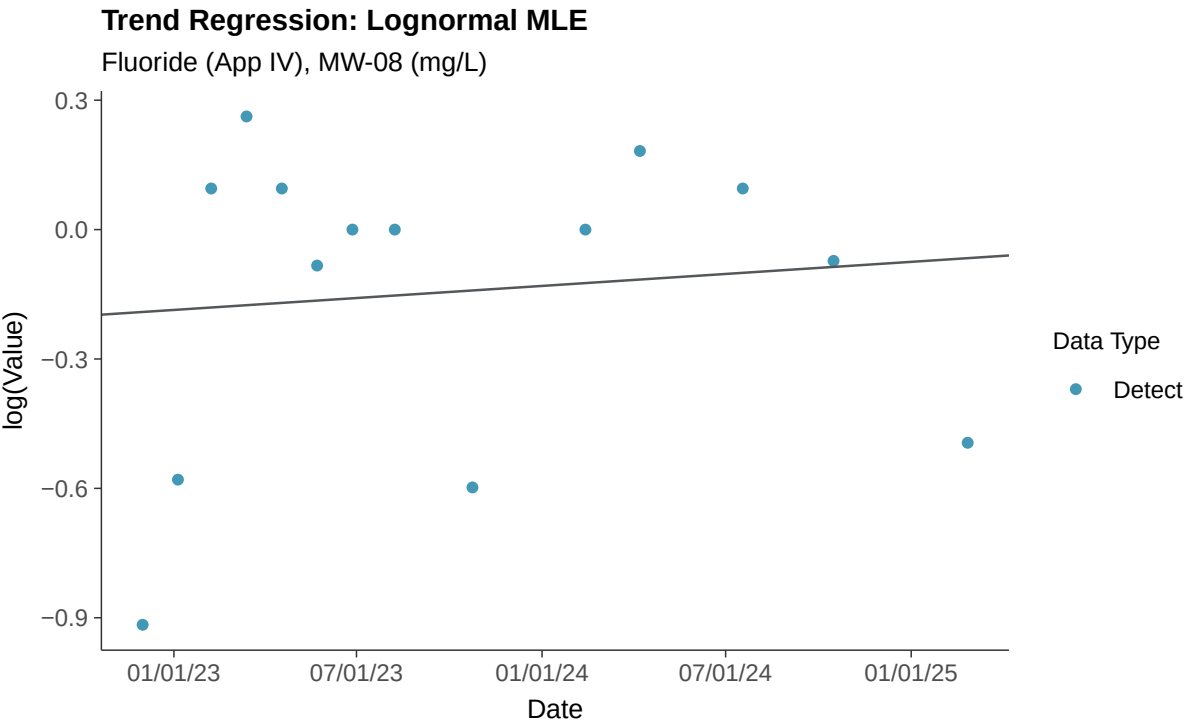
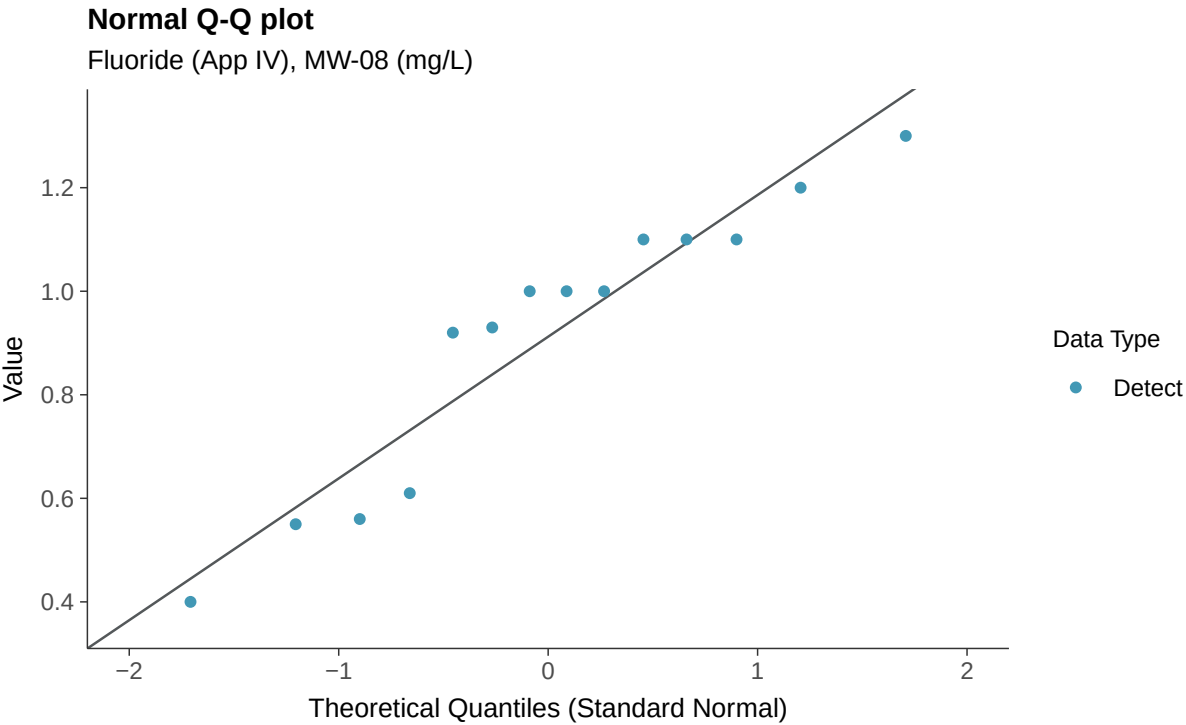


Appendix IV: Fluoride (App IV), MW-08

ID: 18_1_4_113



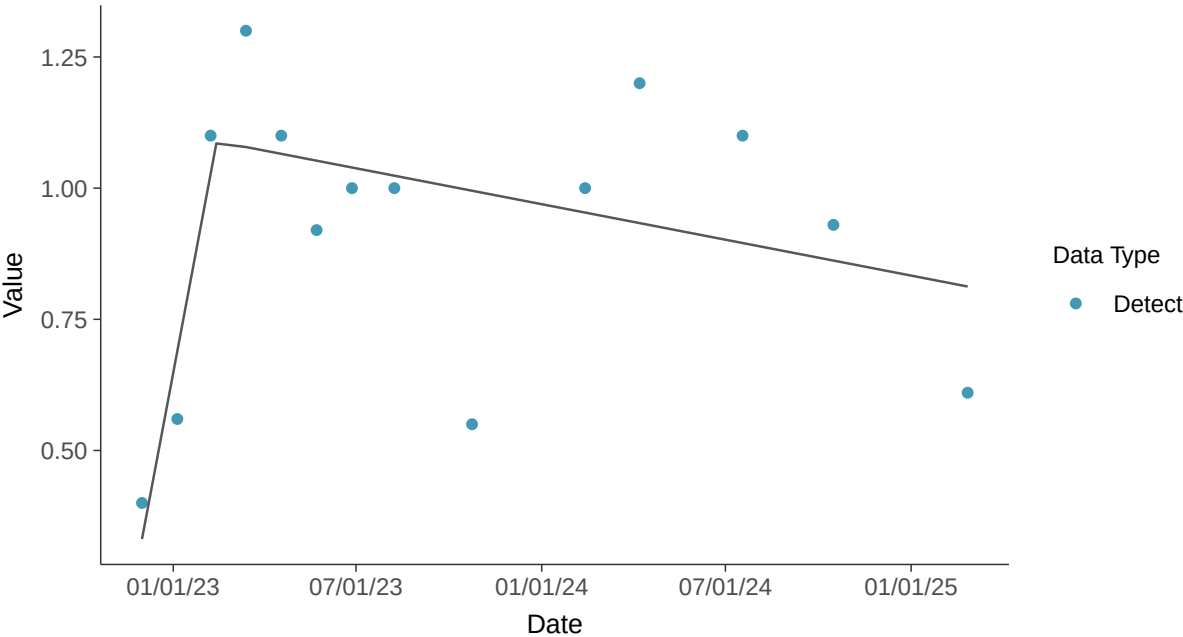






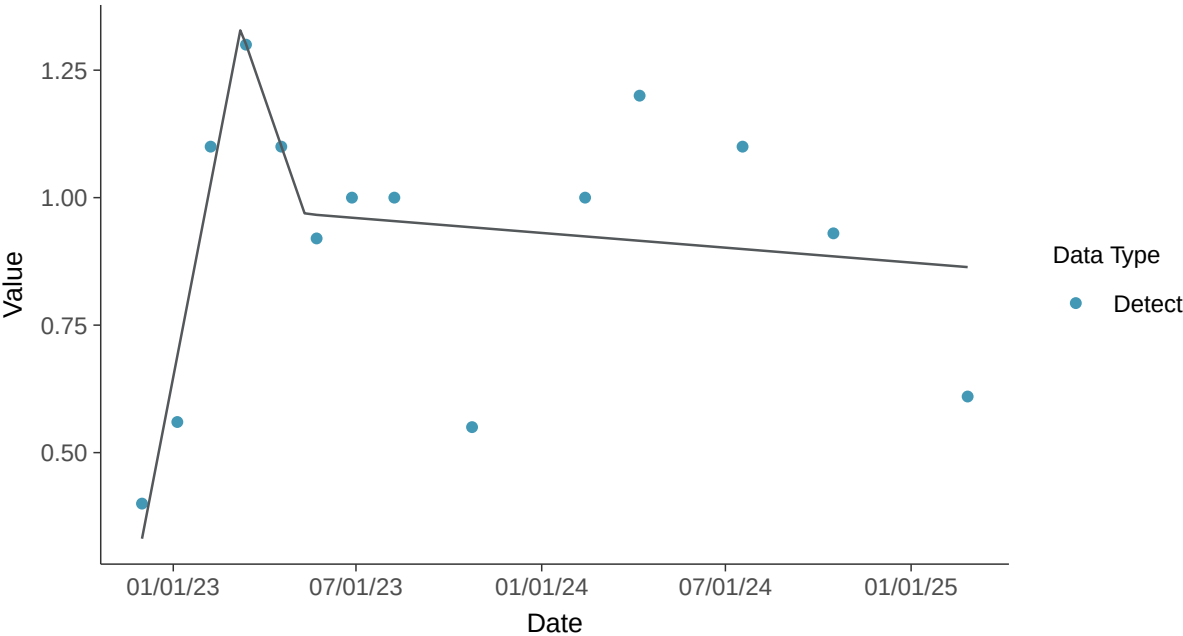
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

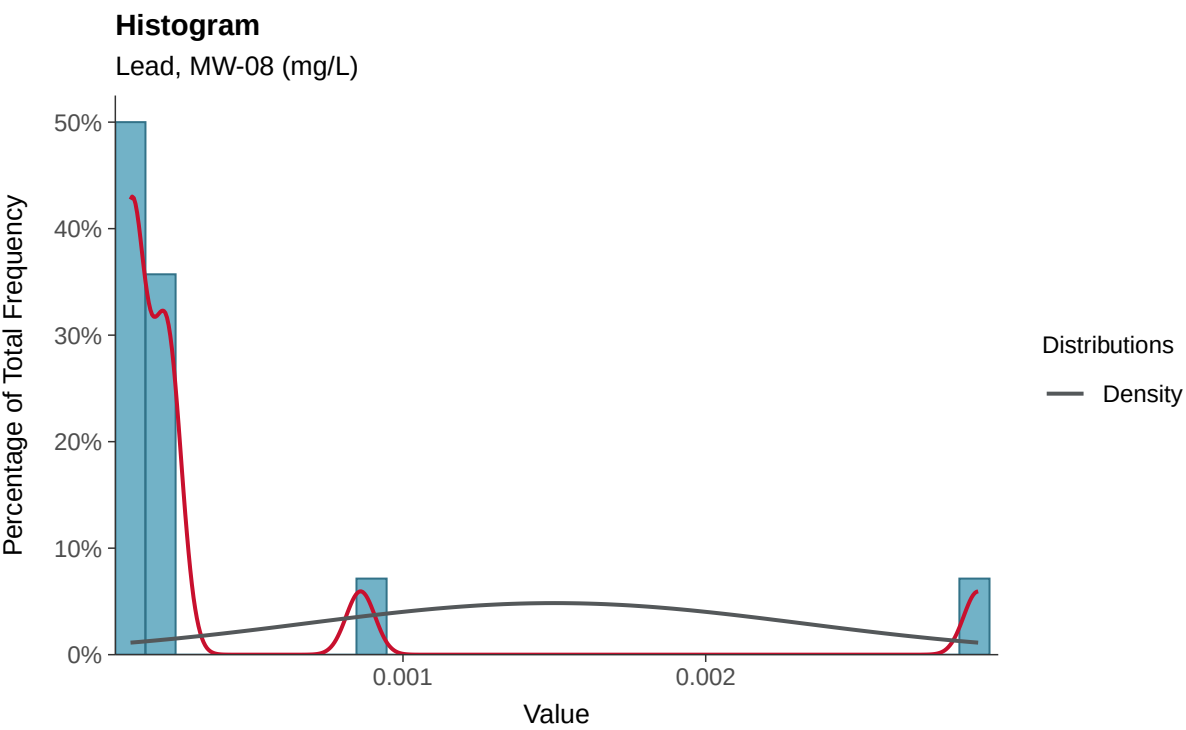
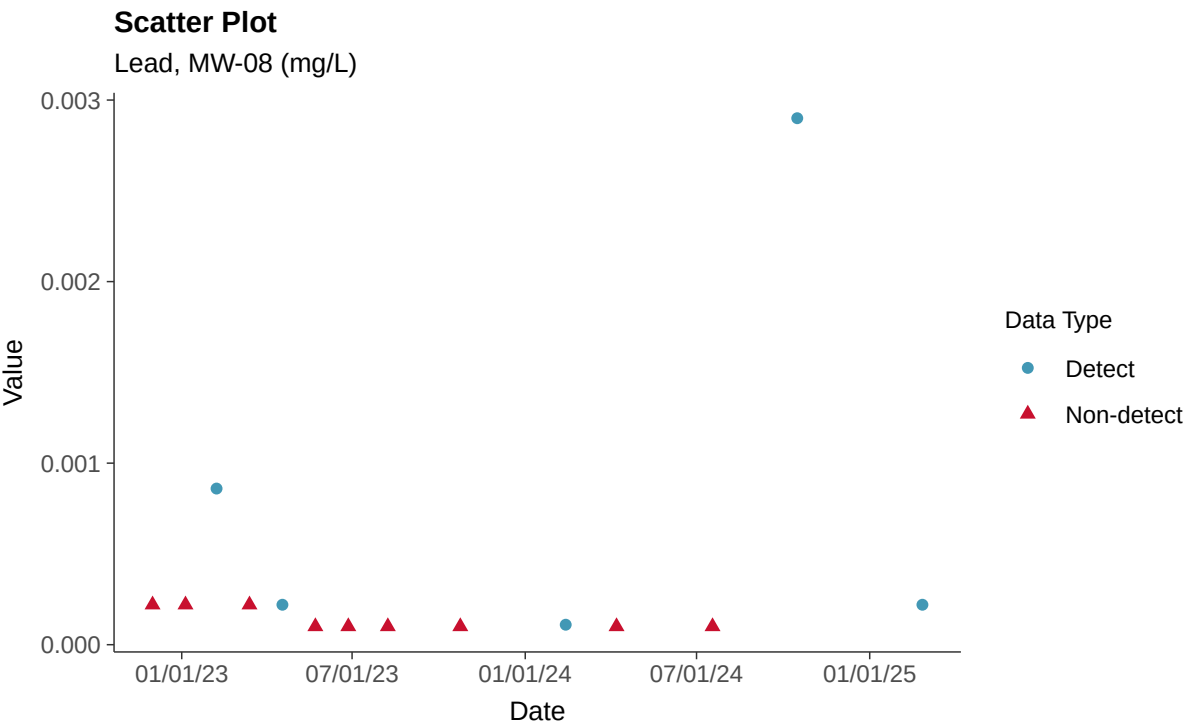
Fluoride (App IV), MW-08 (mg/L)

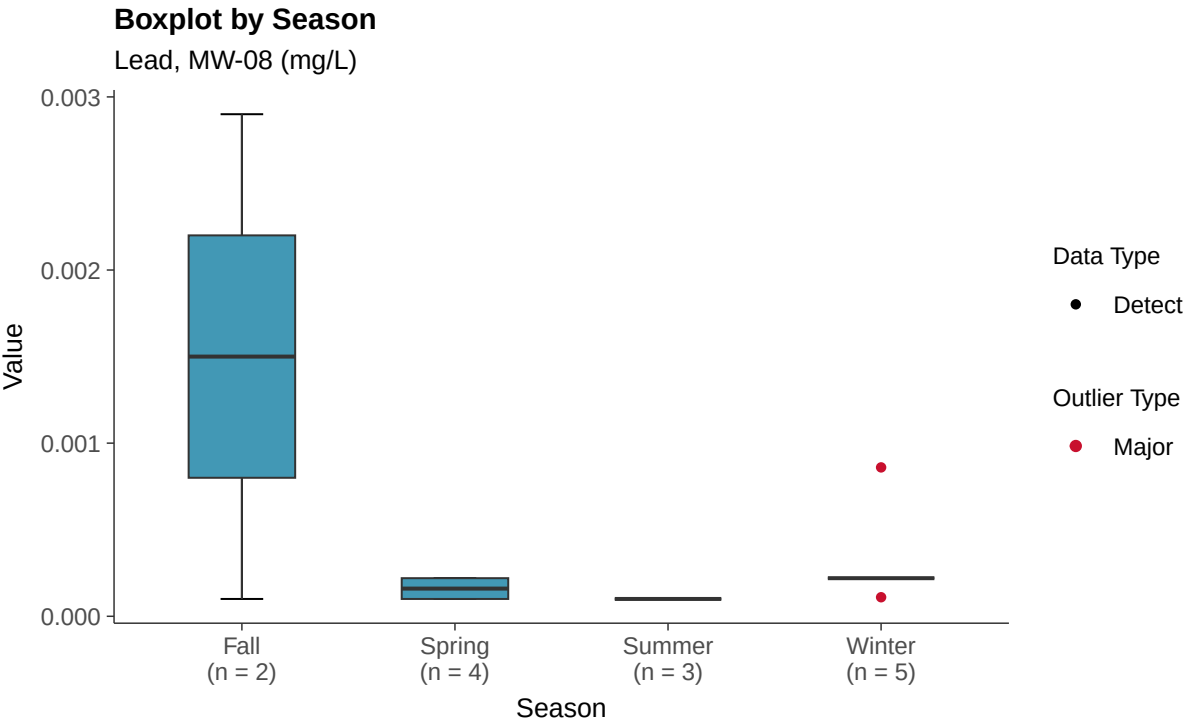
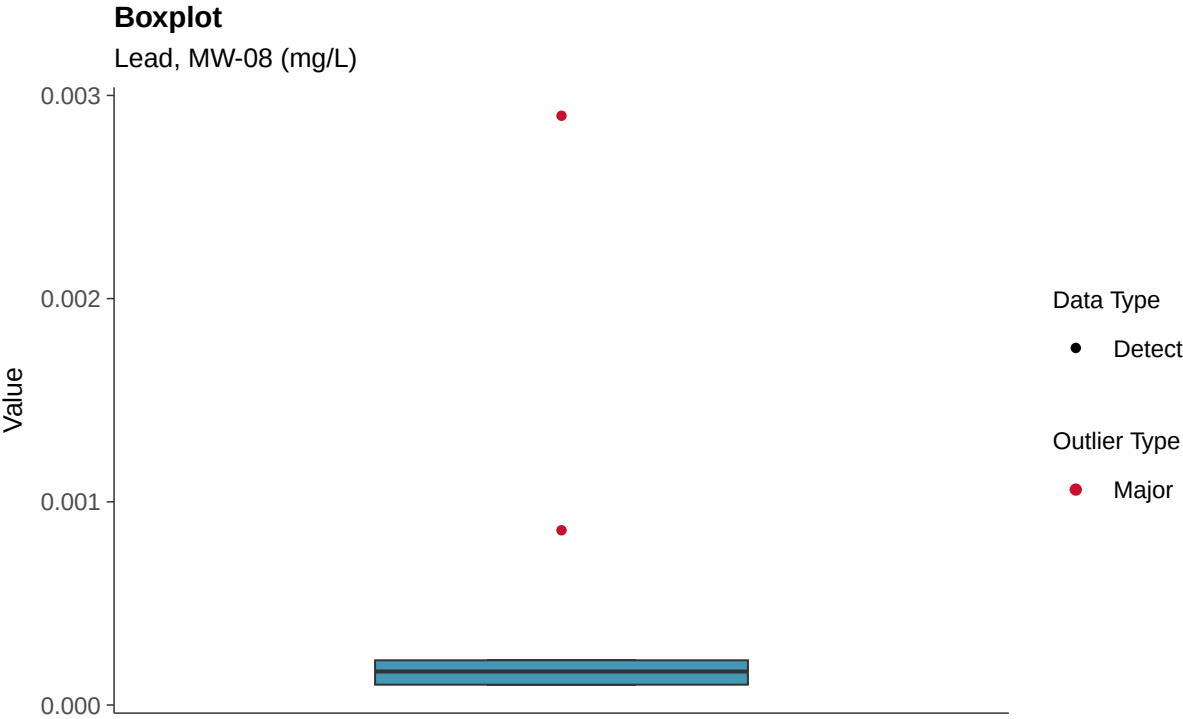


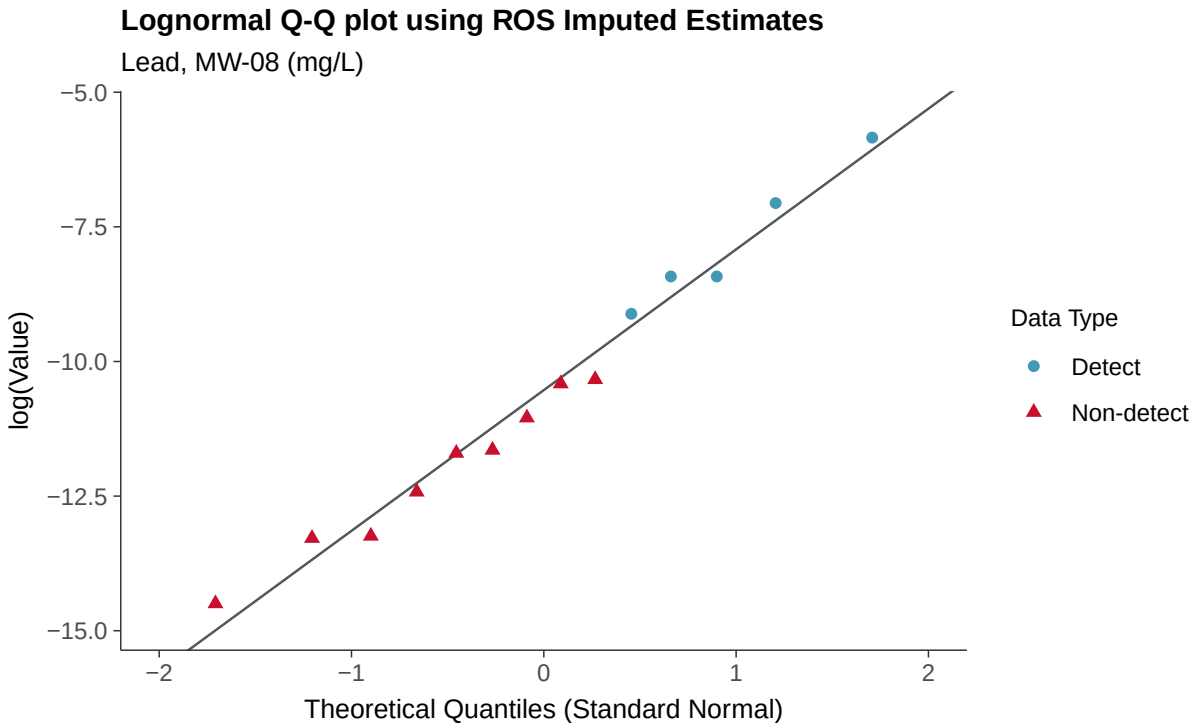
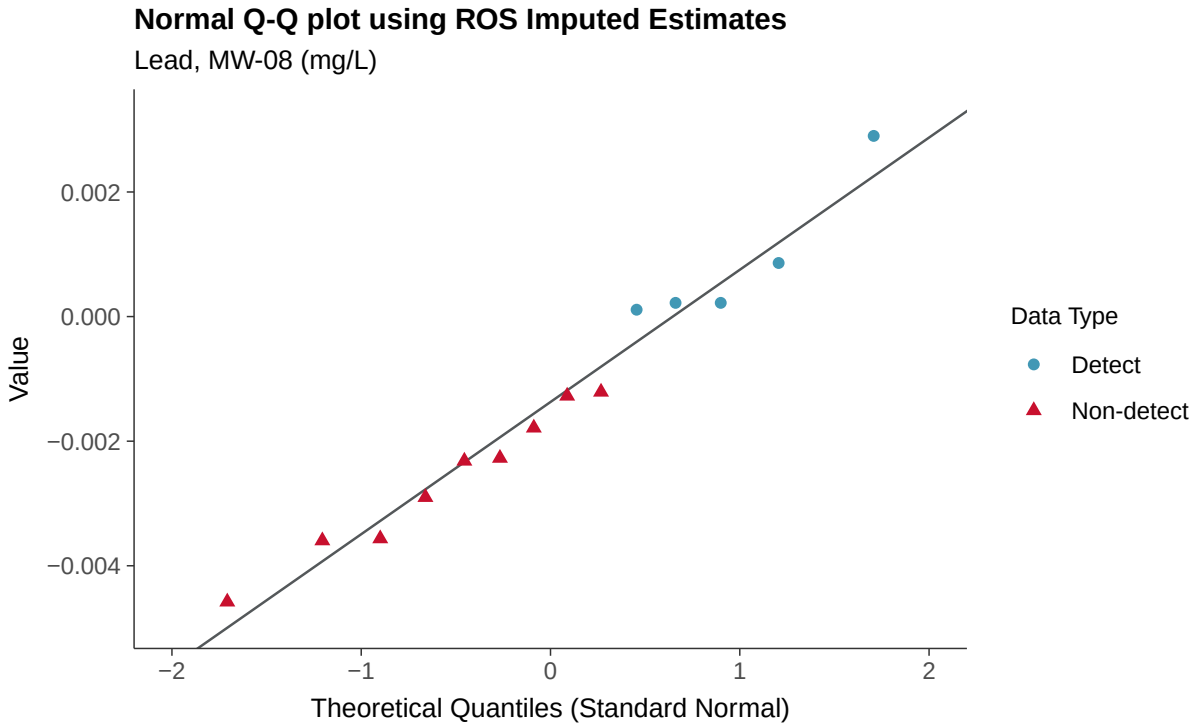


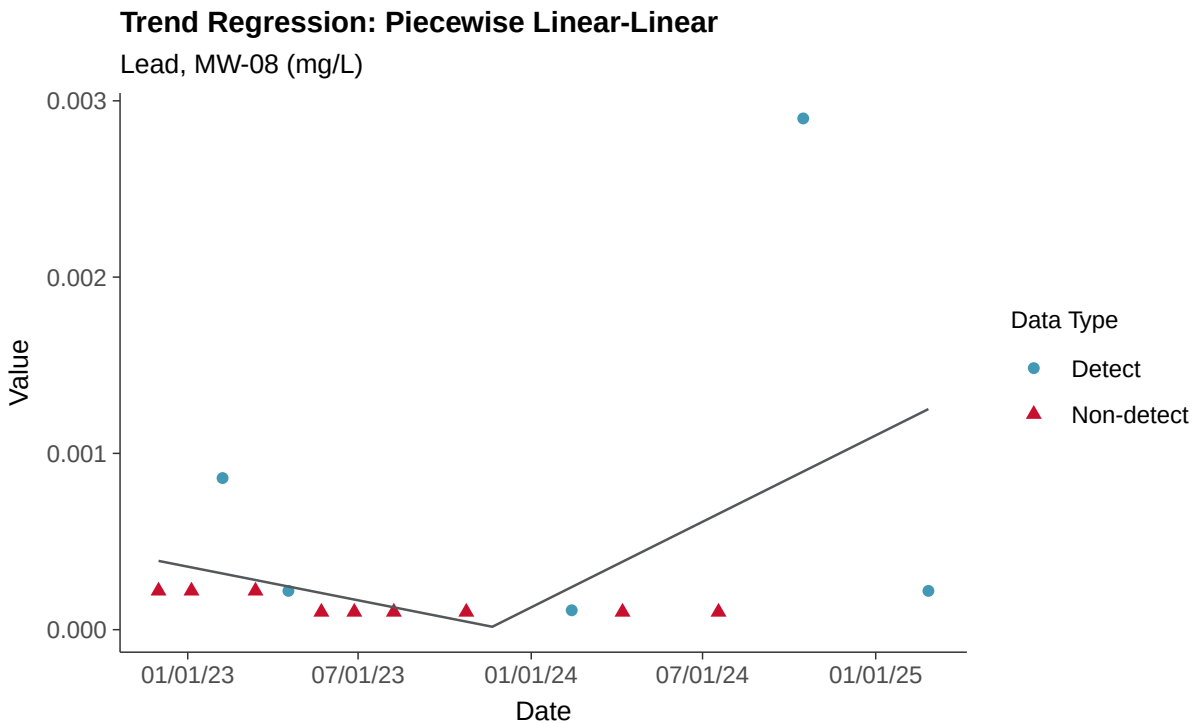
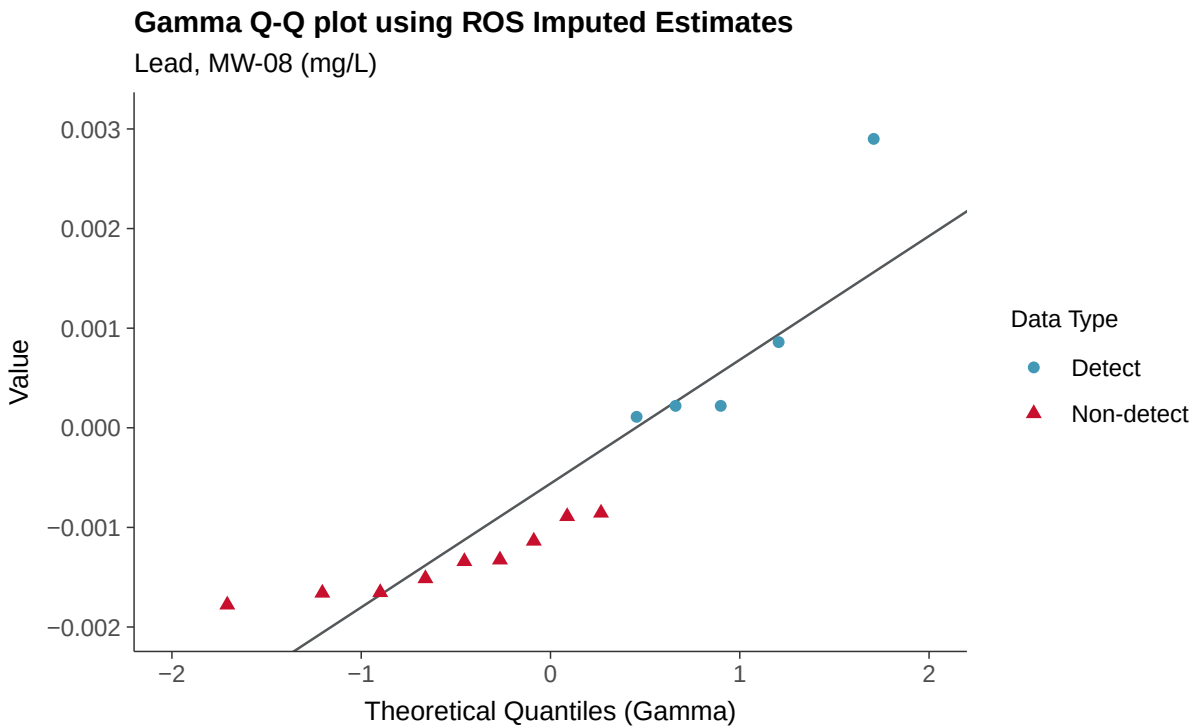
Appendix IV: Lead, MW-08

ID: 18_1_4_115





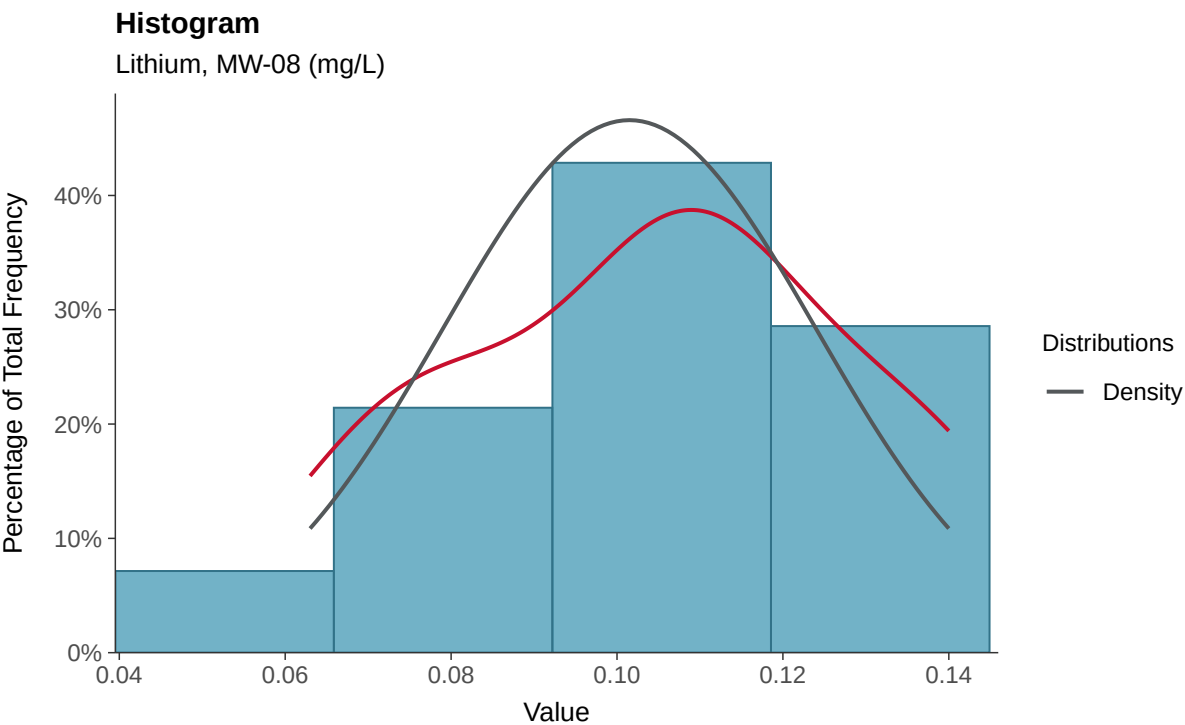
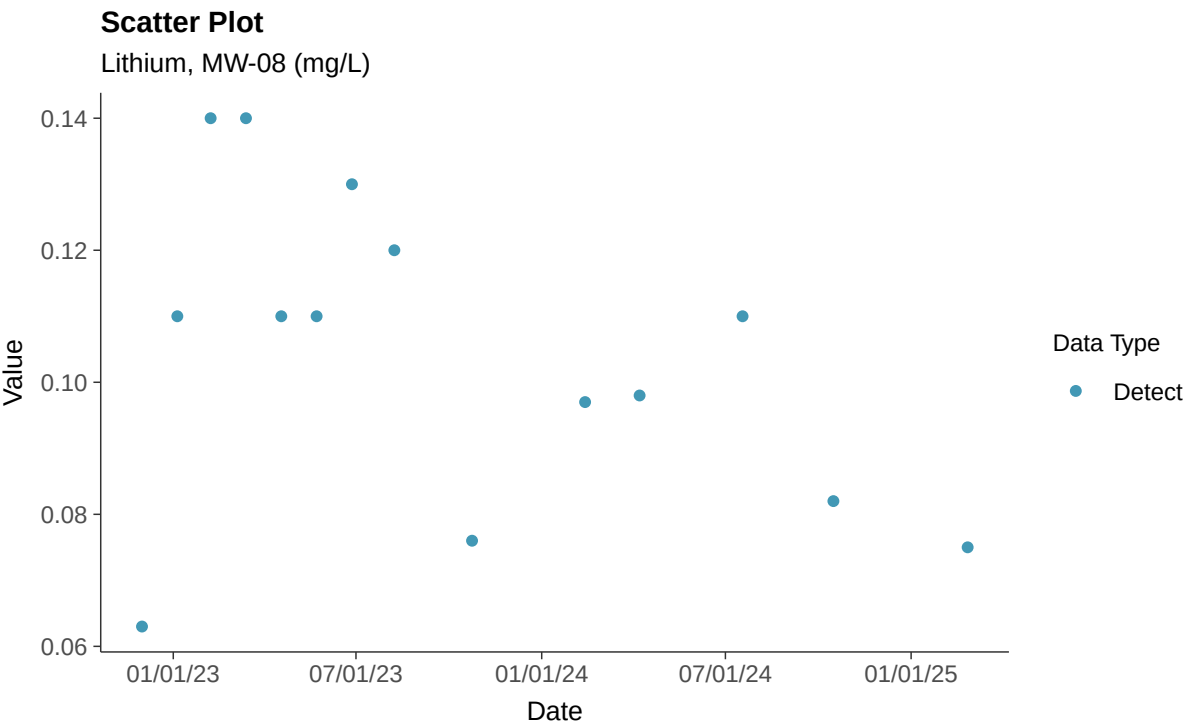


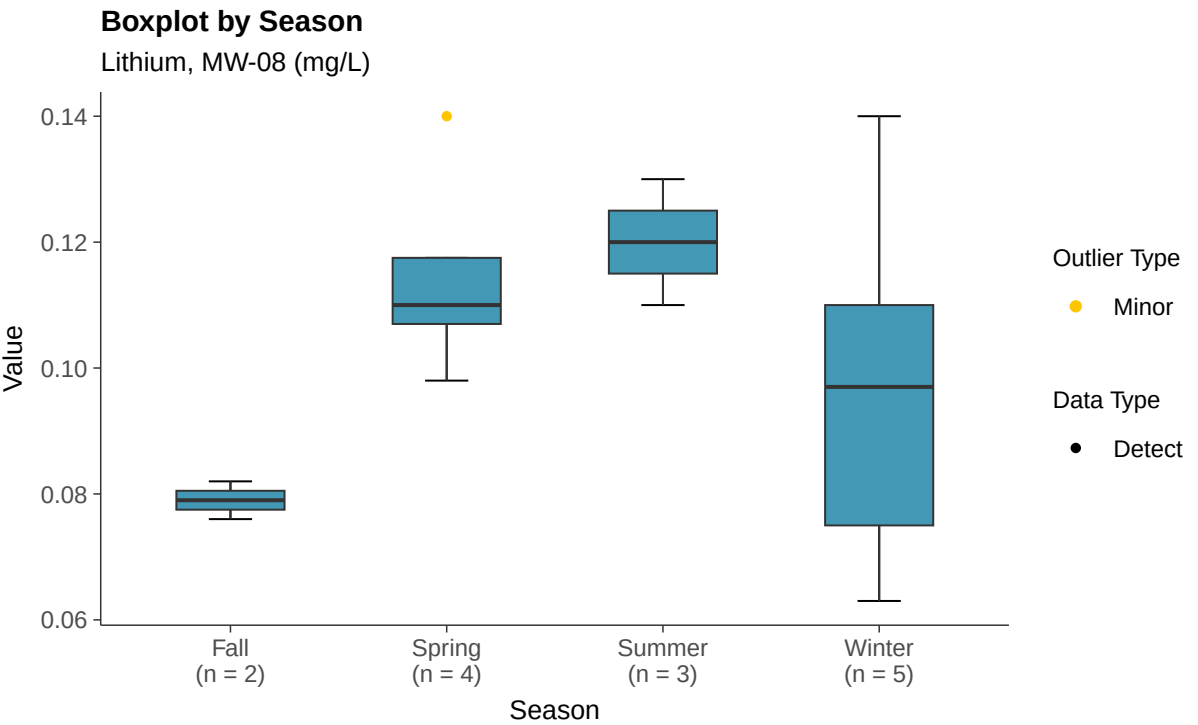
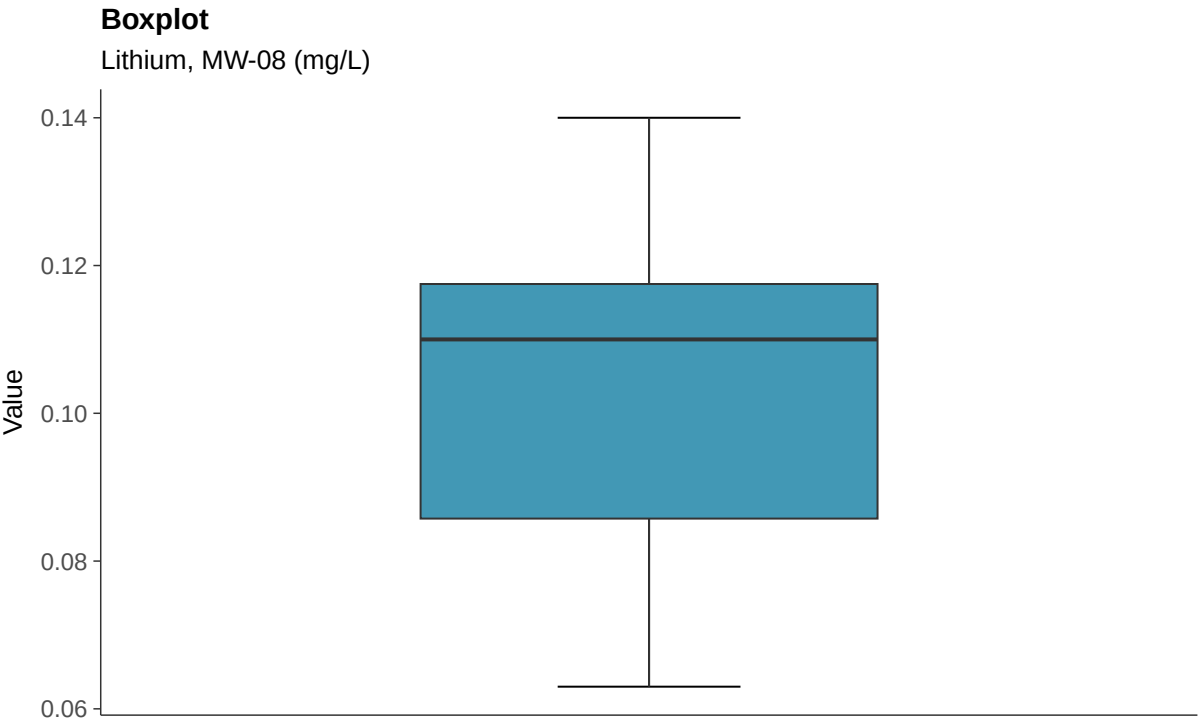


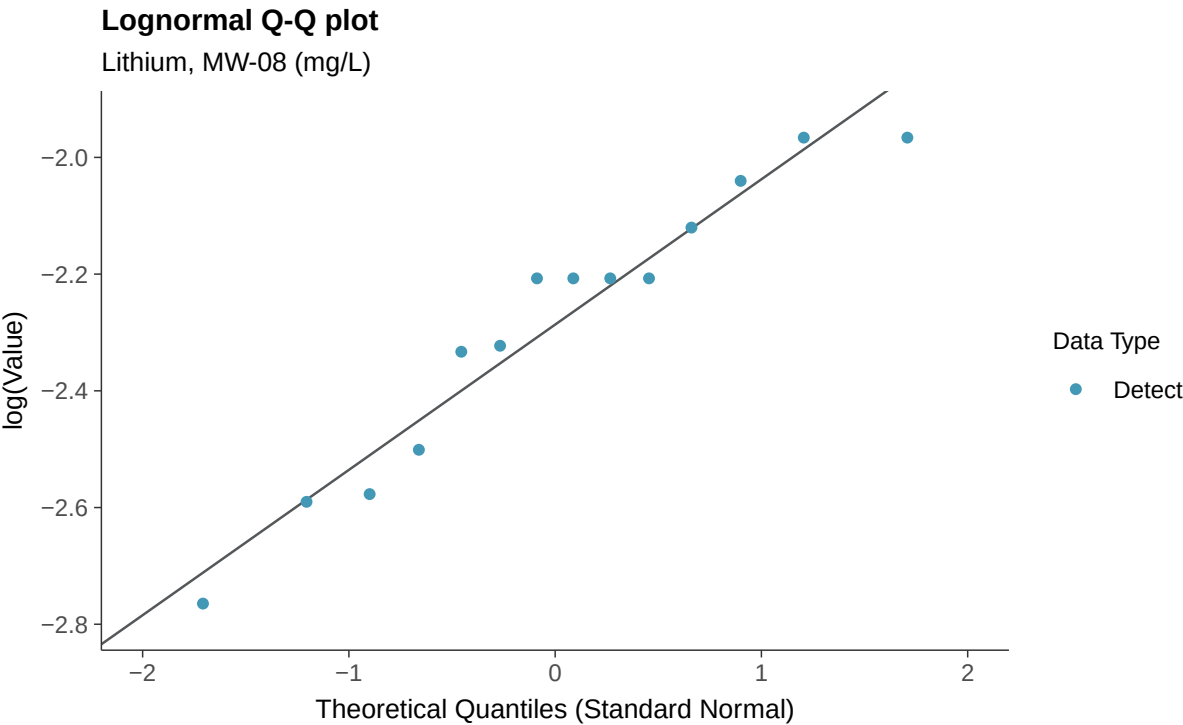
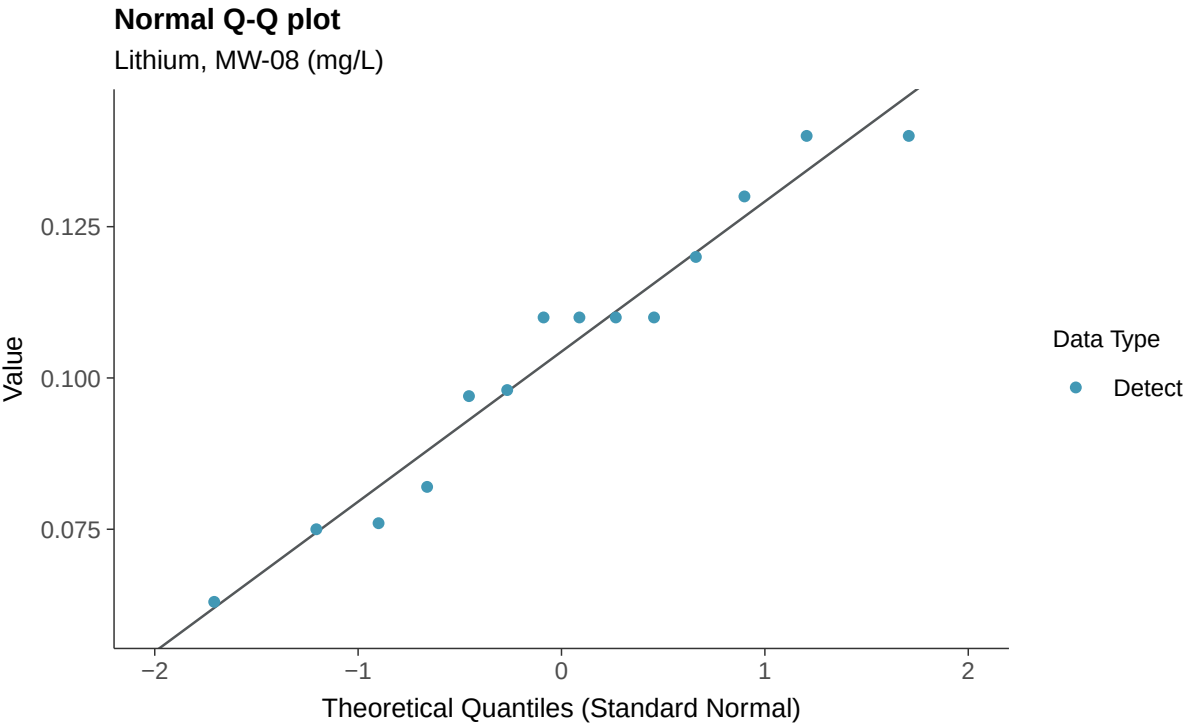


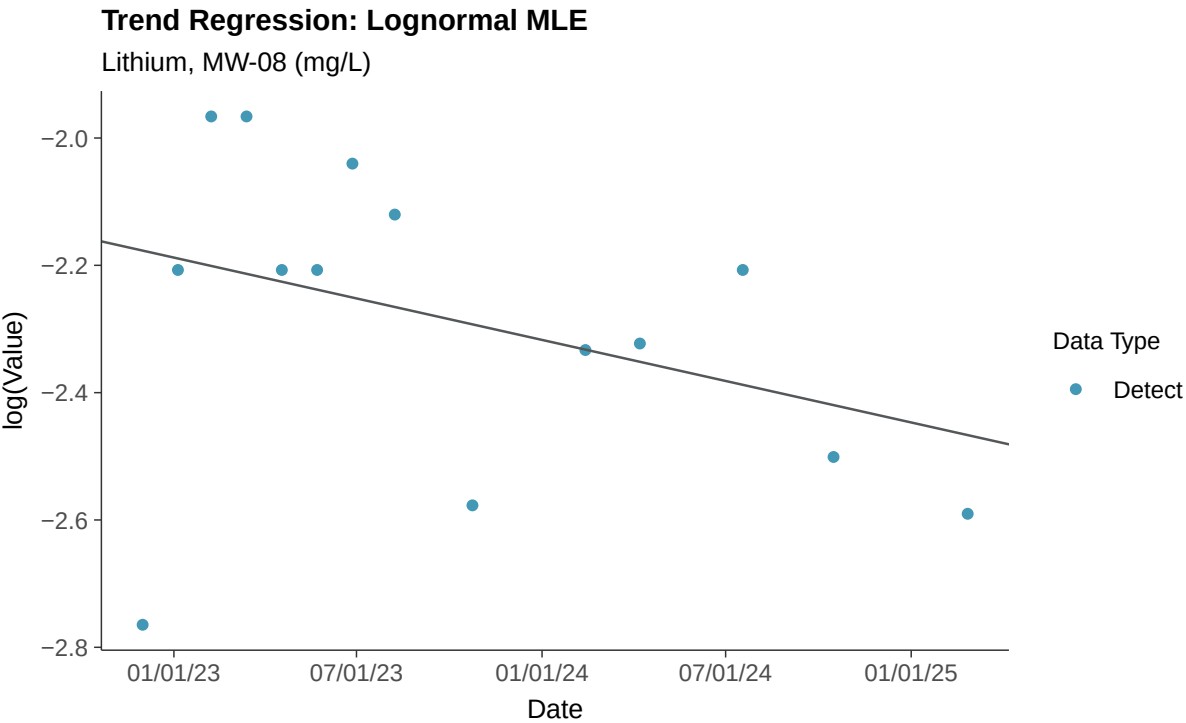
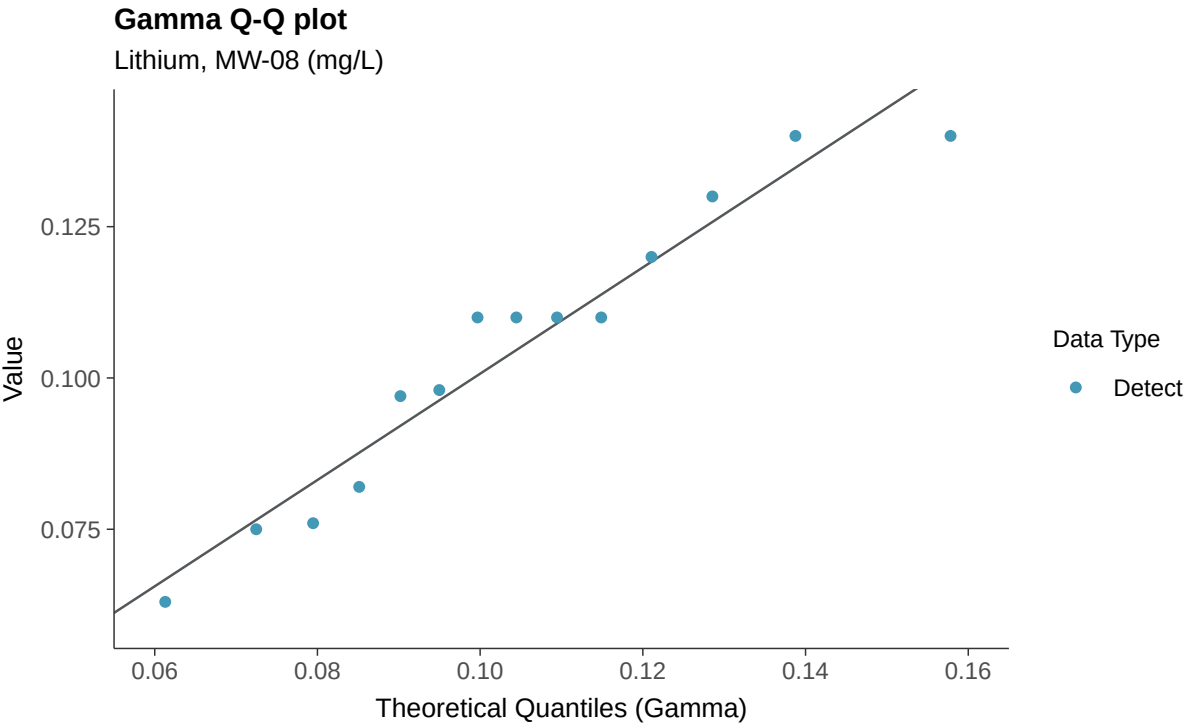
Appendix IV: Lithium, MW-08

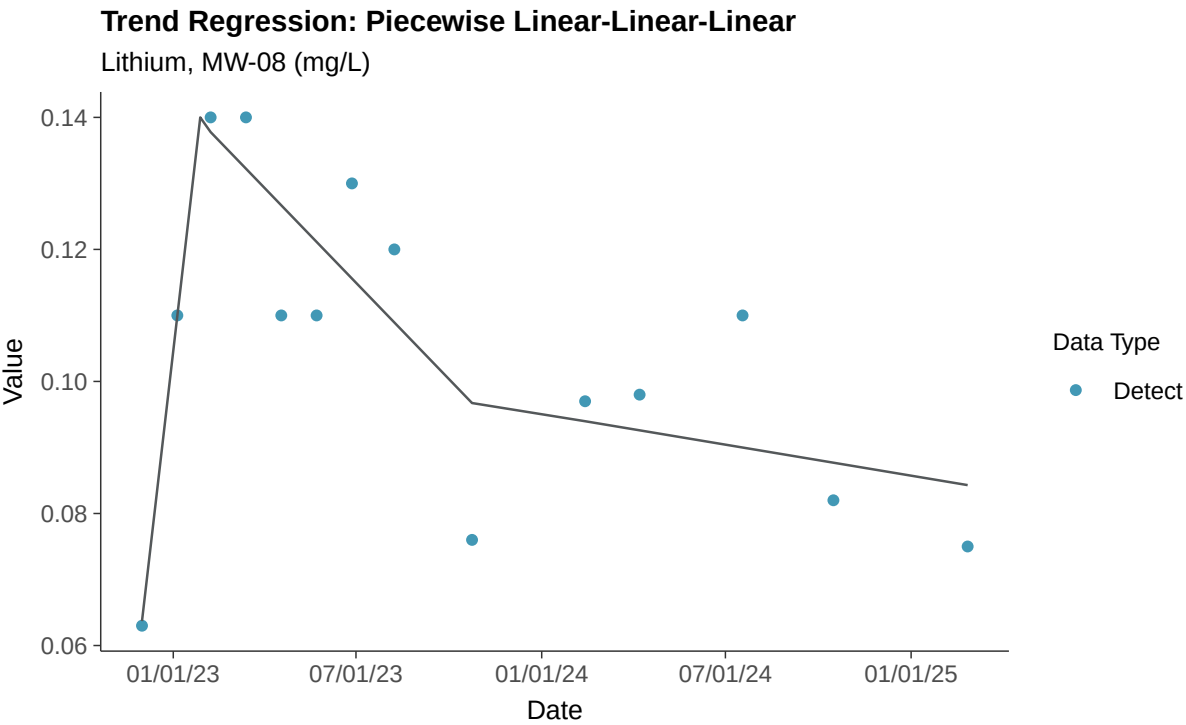
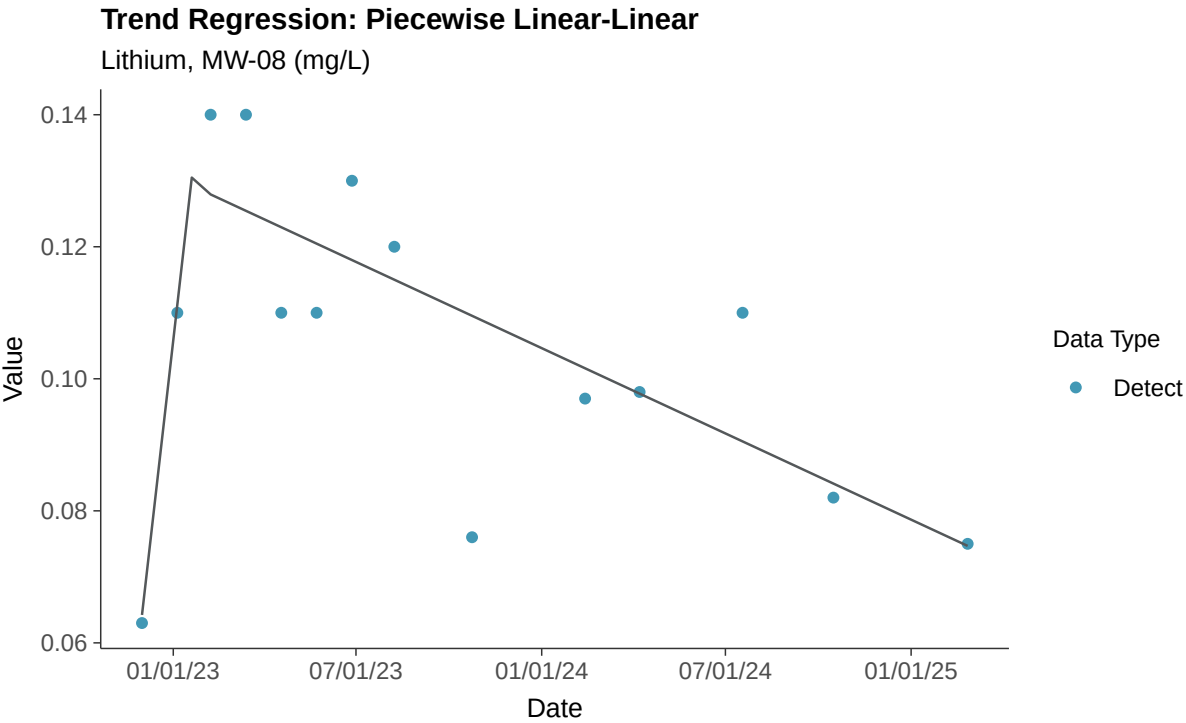
ID: 18_1_4_116







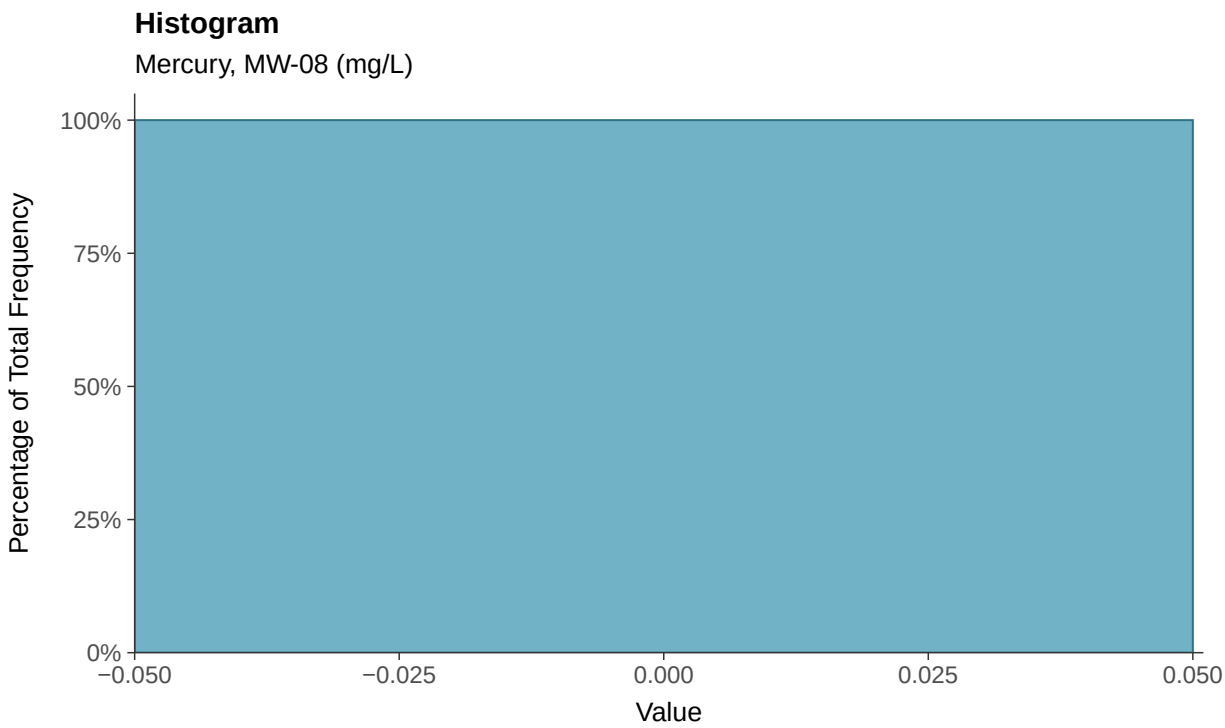
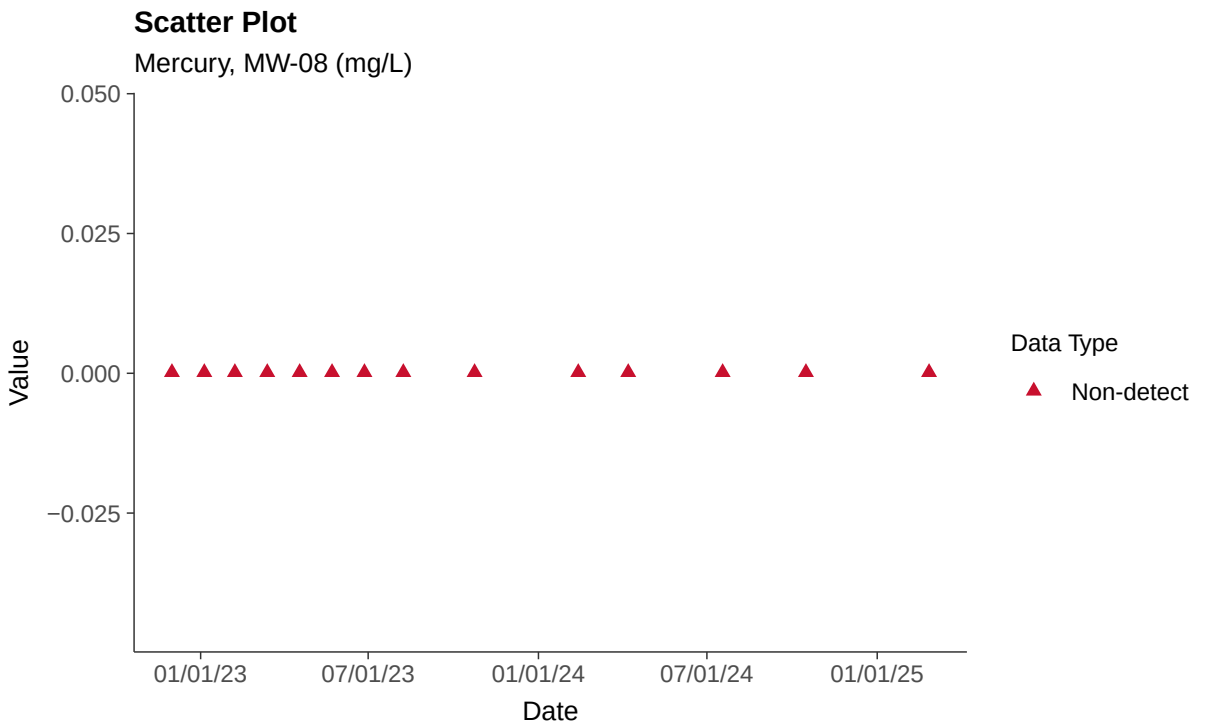


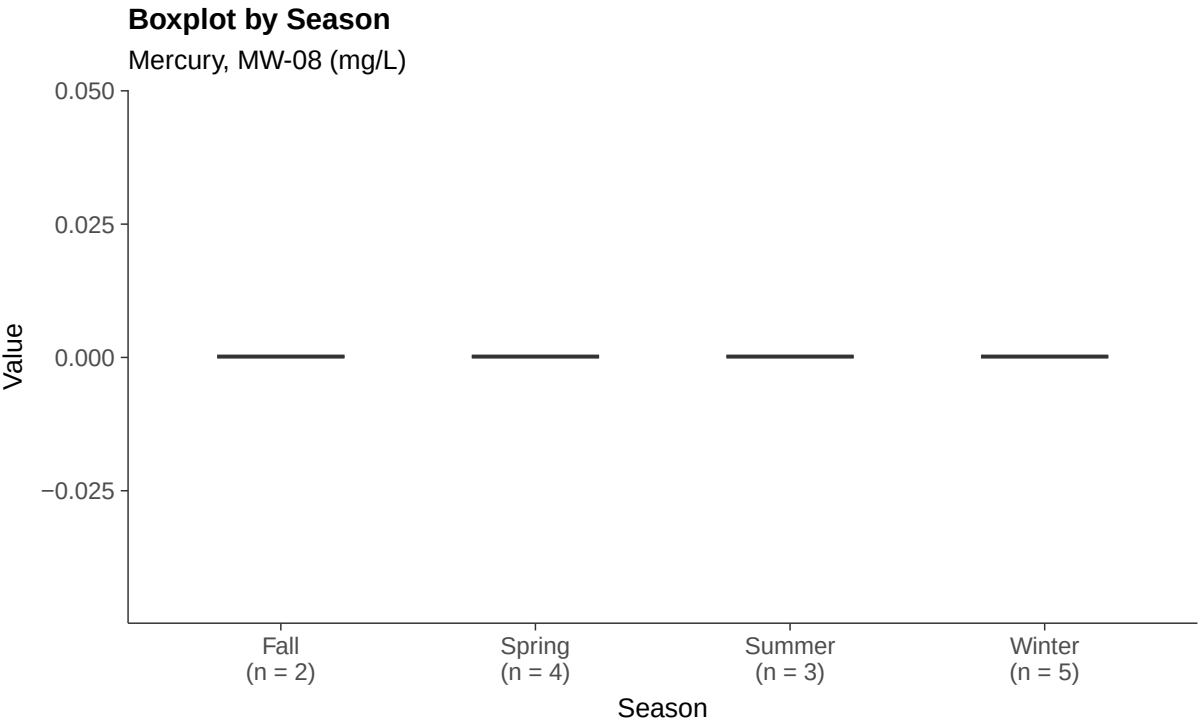
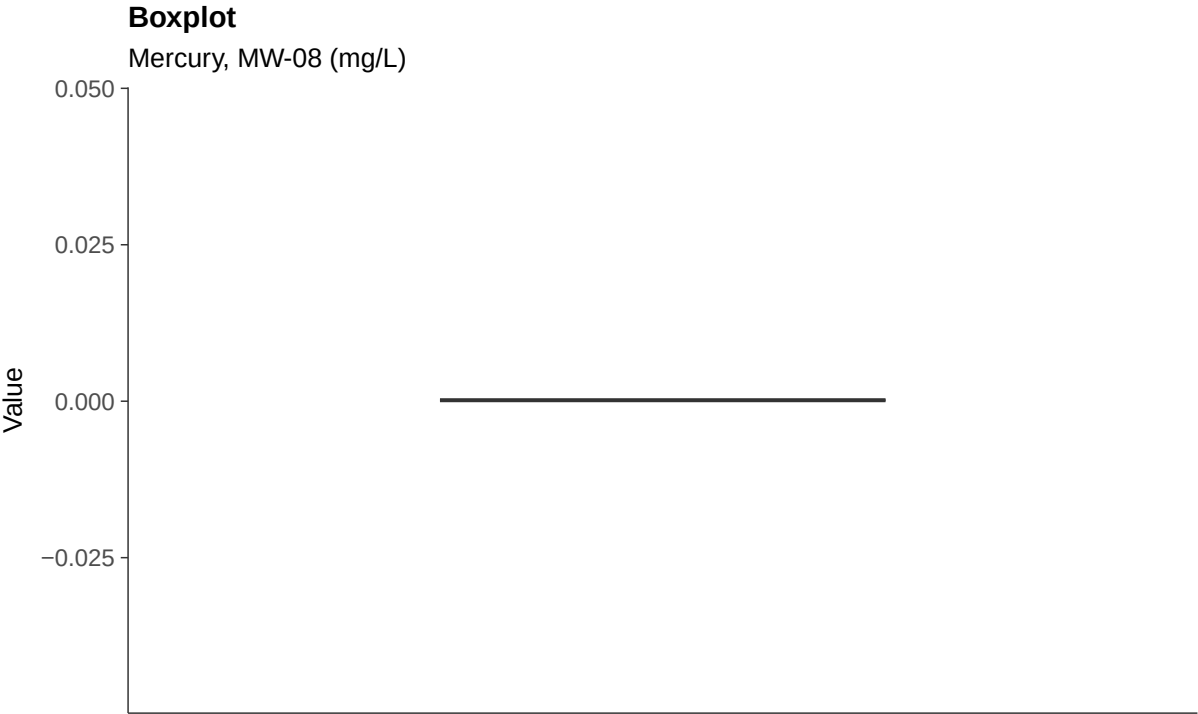




Appendix IV: Mercury, MW-08

ID: 18_1_4_117

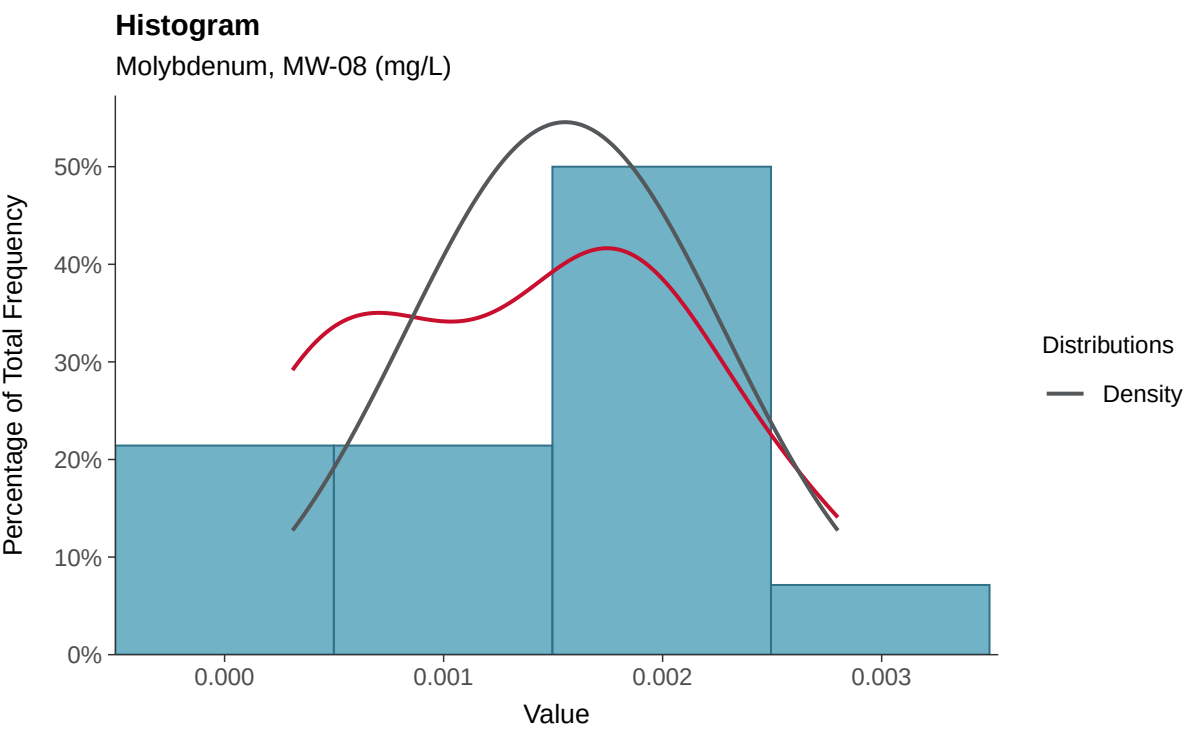
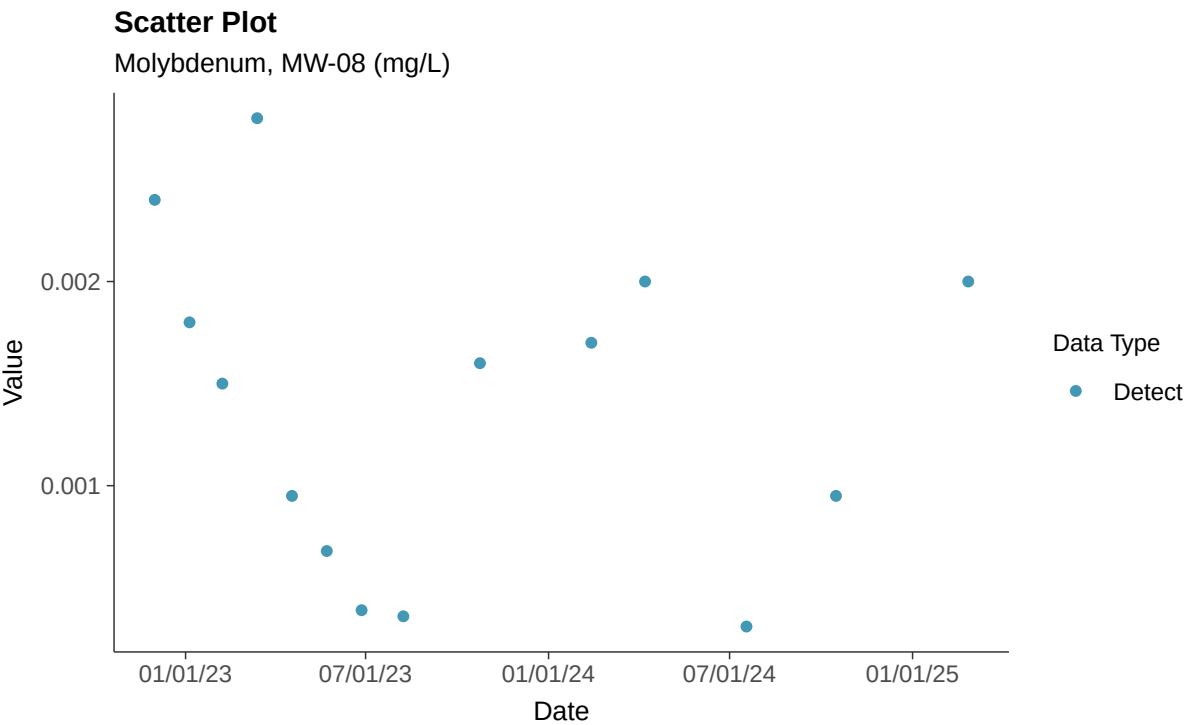


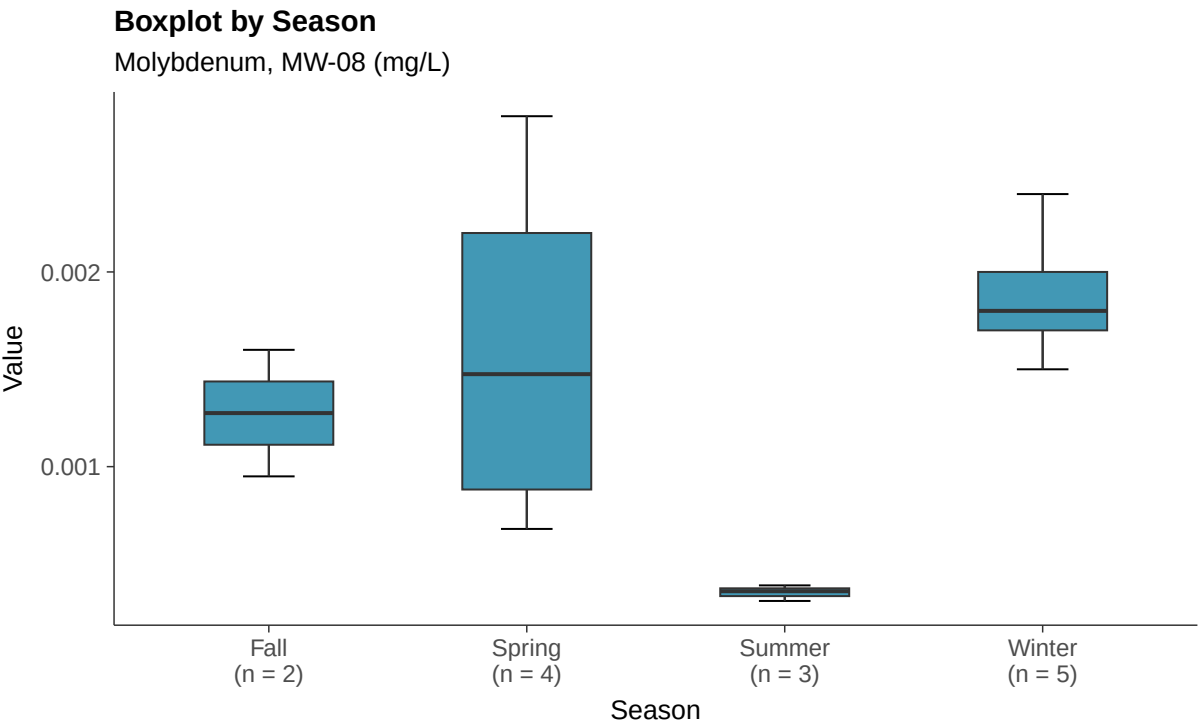
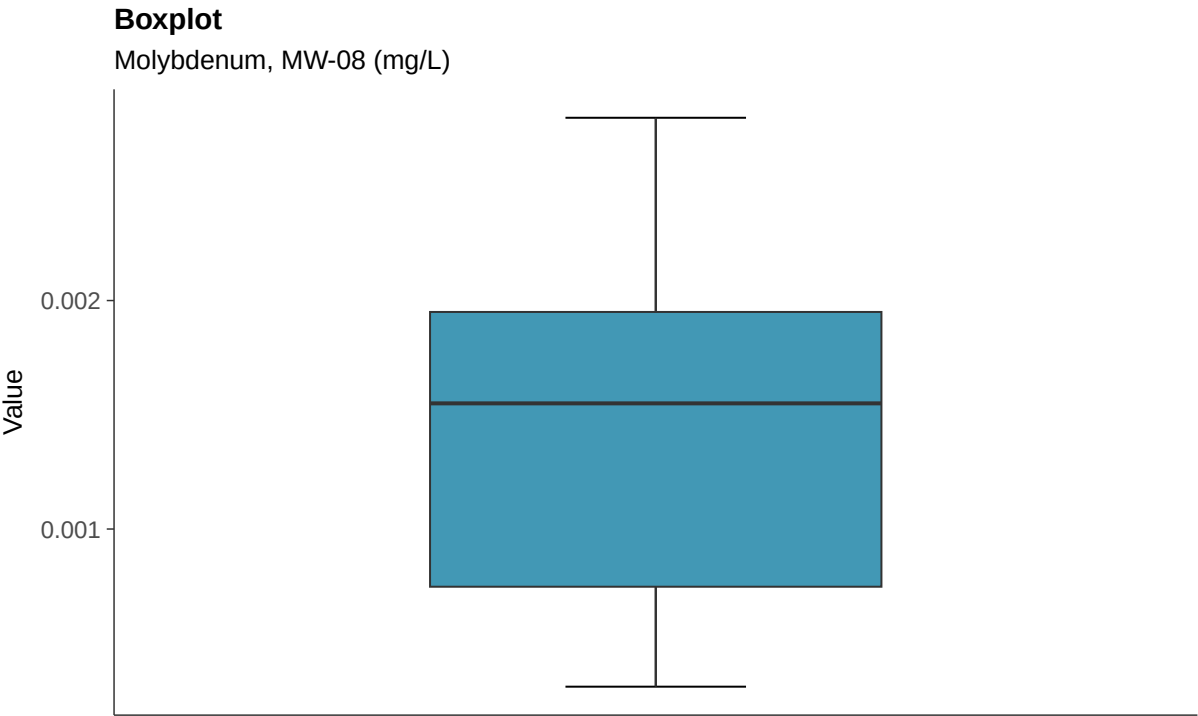


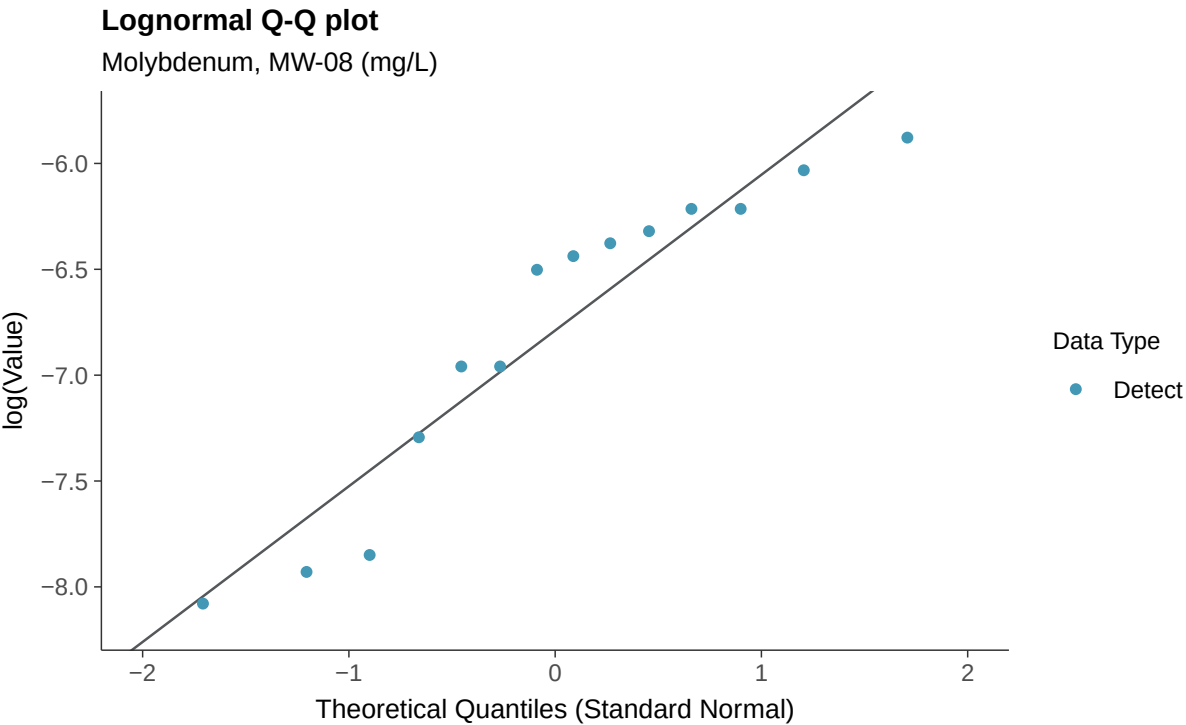
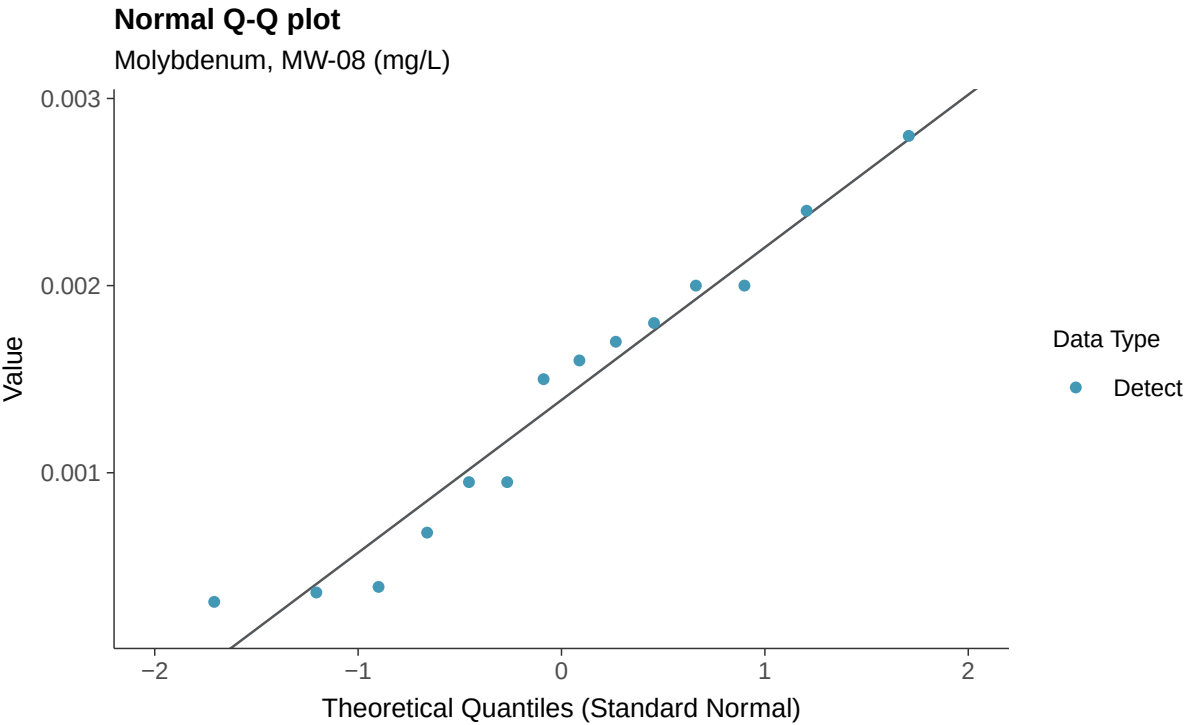


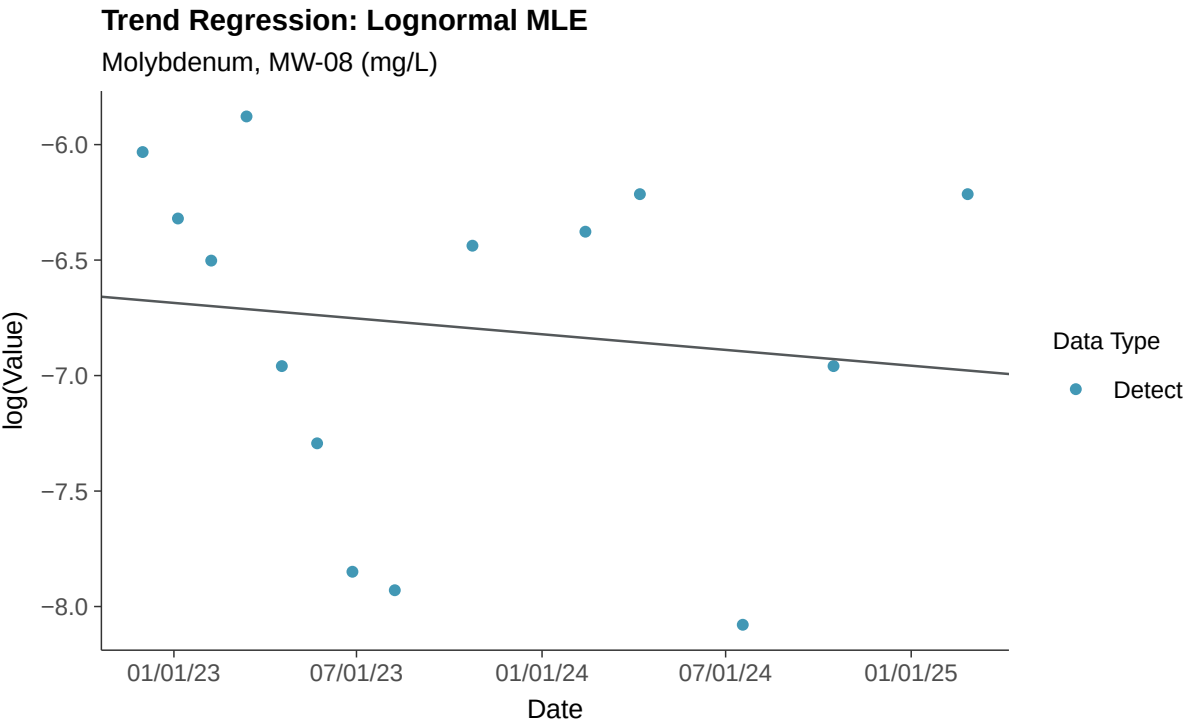
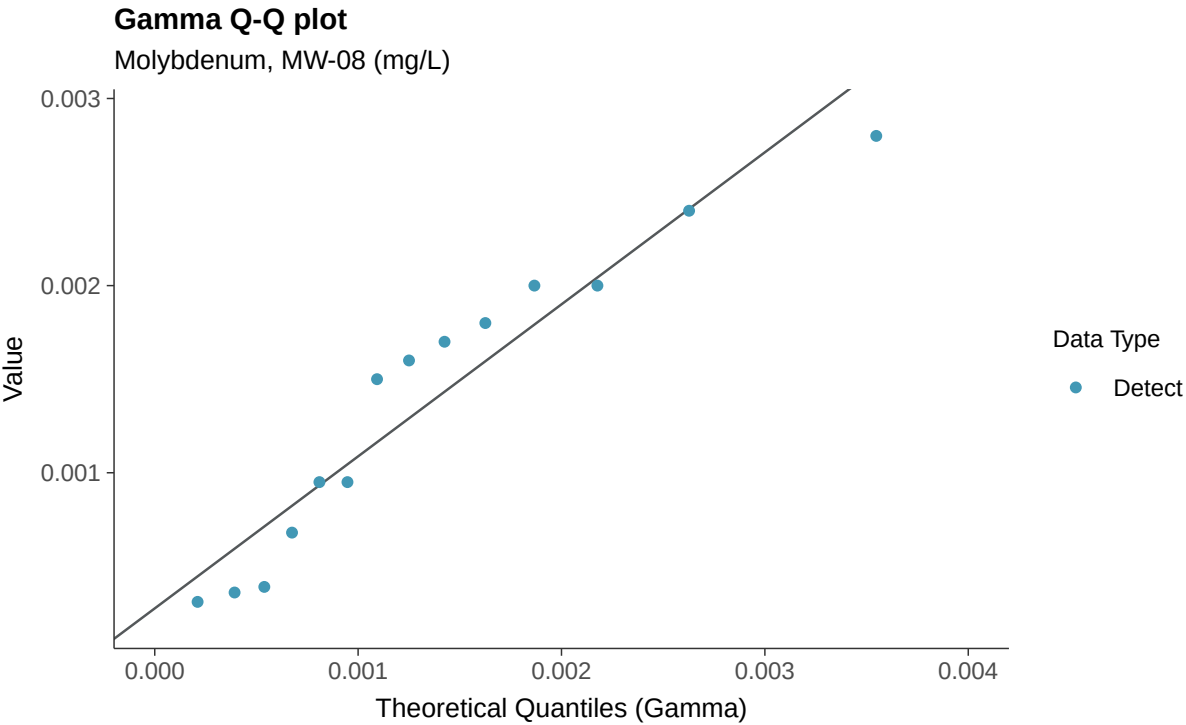
Appendix IV: Molybdenum, MW-08

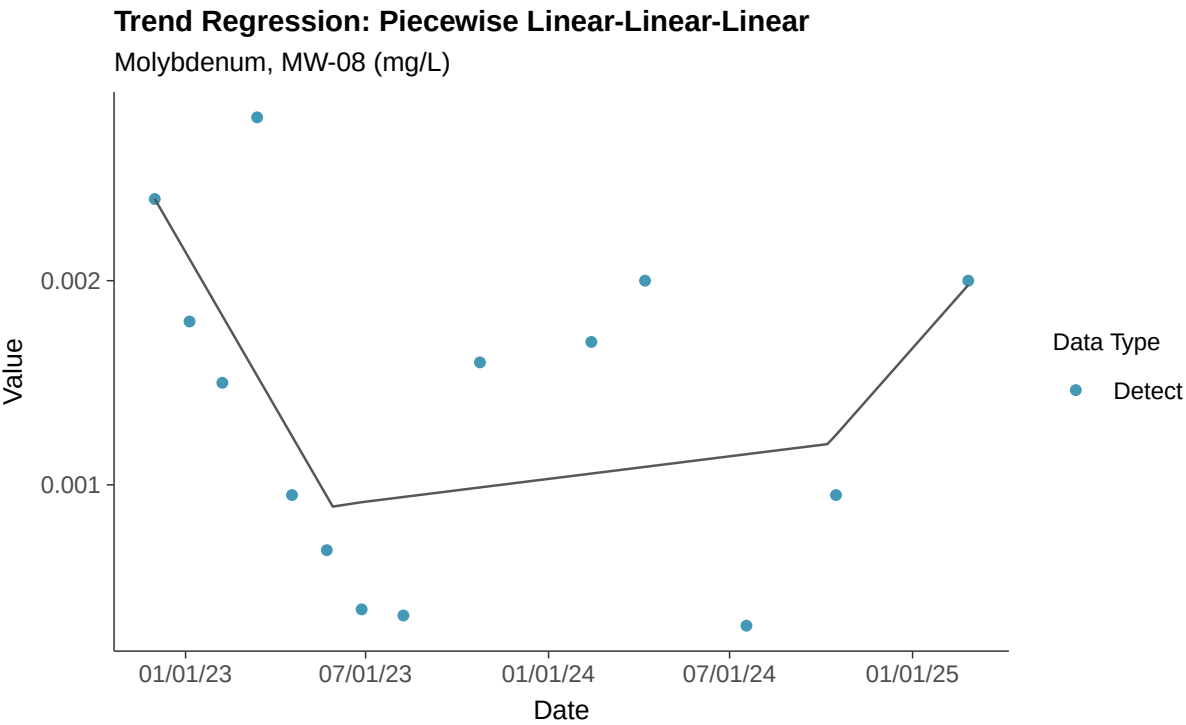
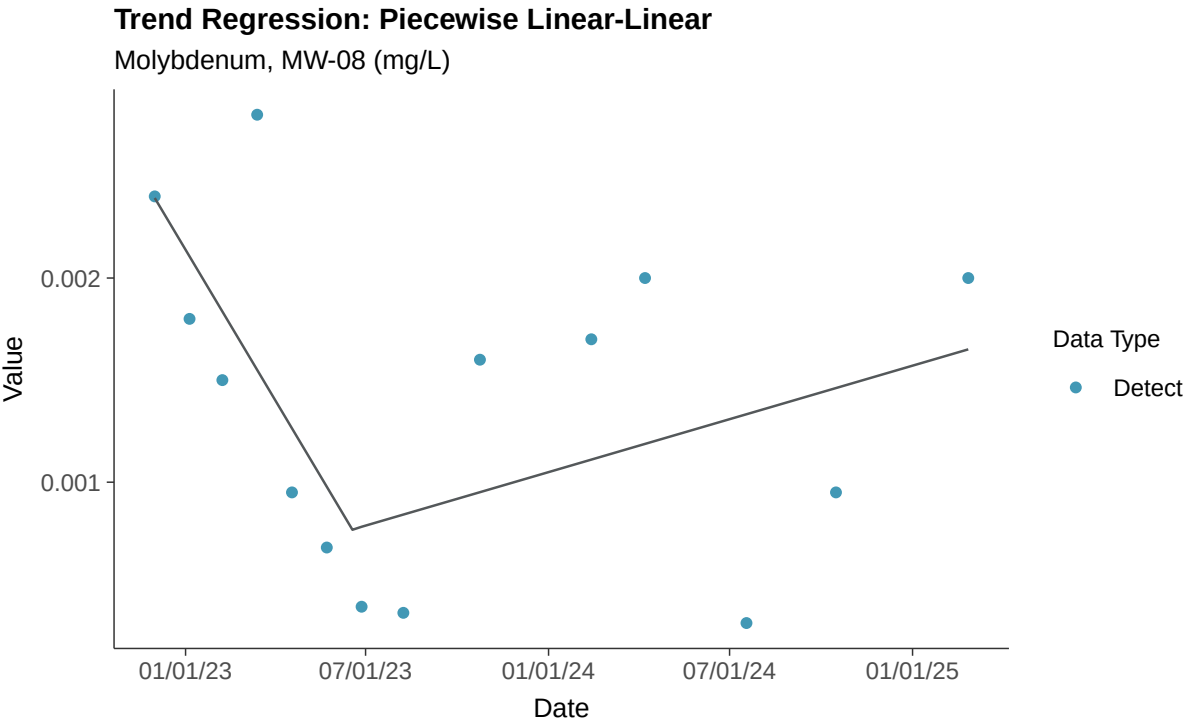
ID: 18_1_4_118







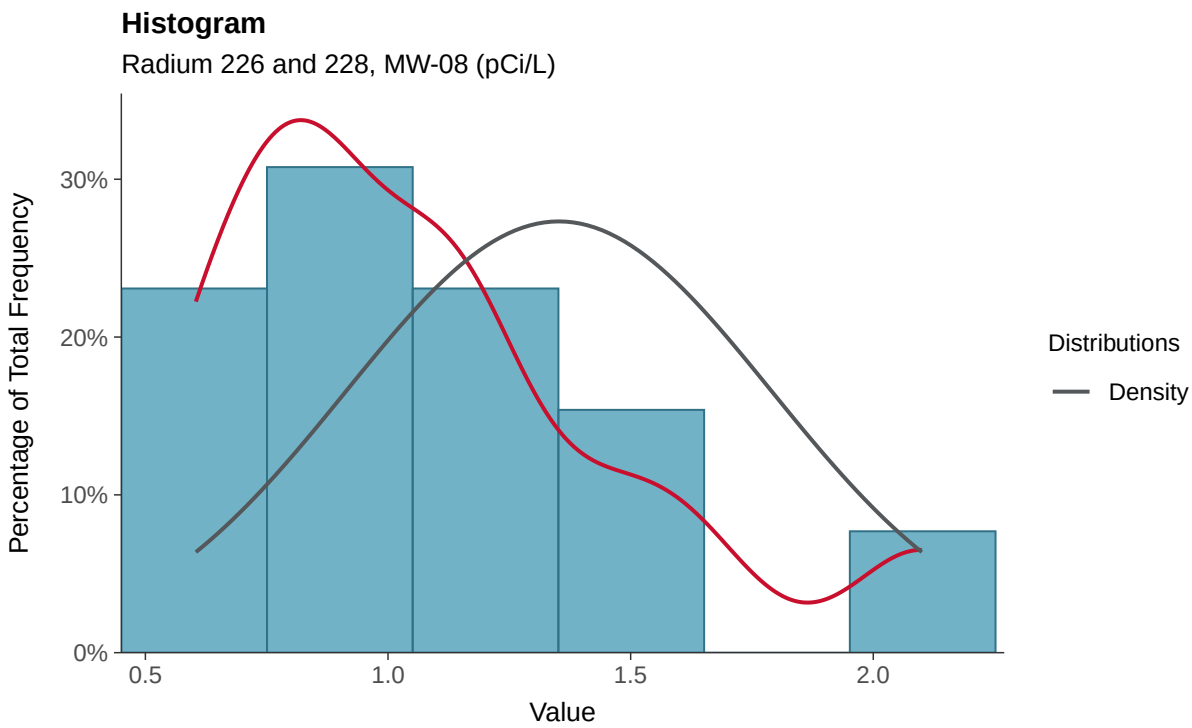
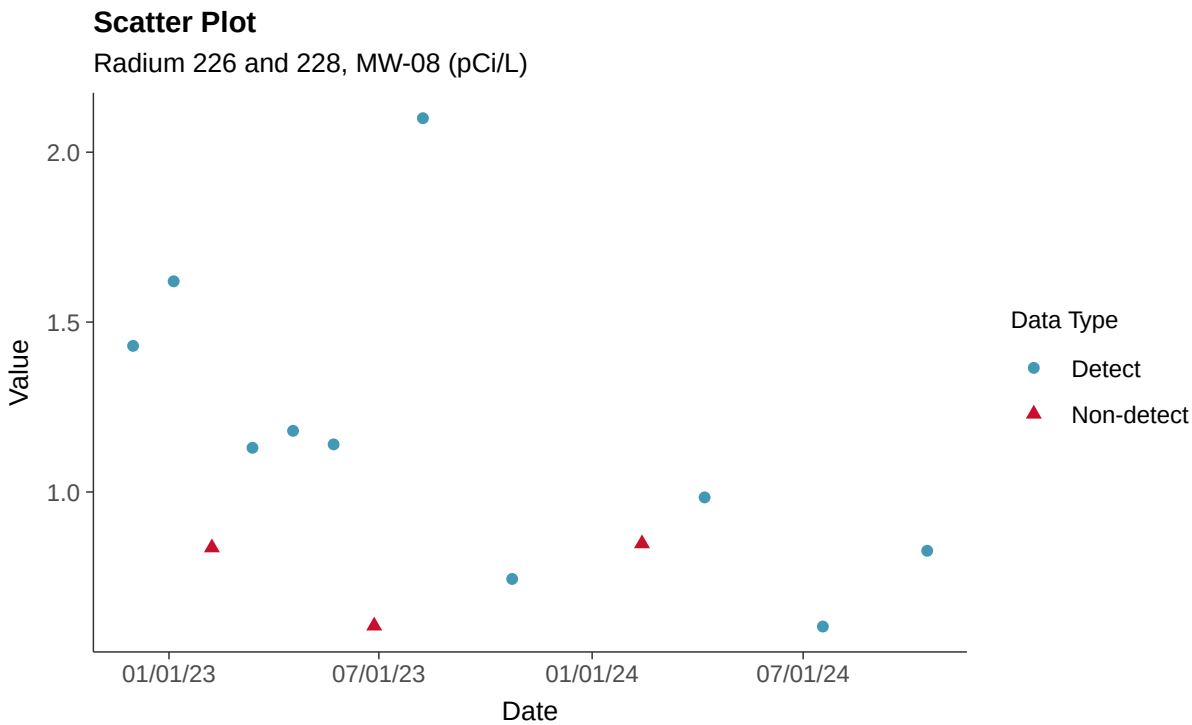


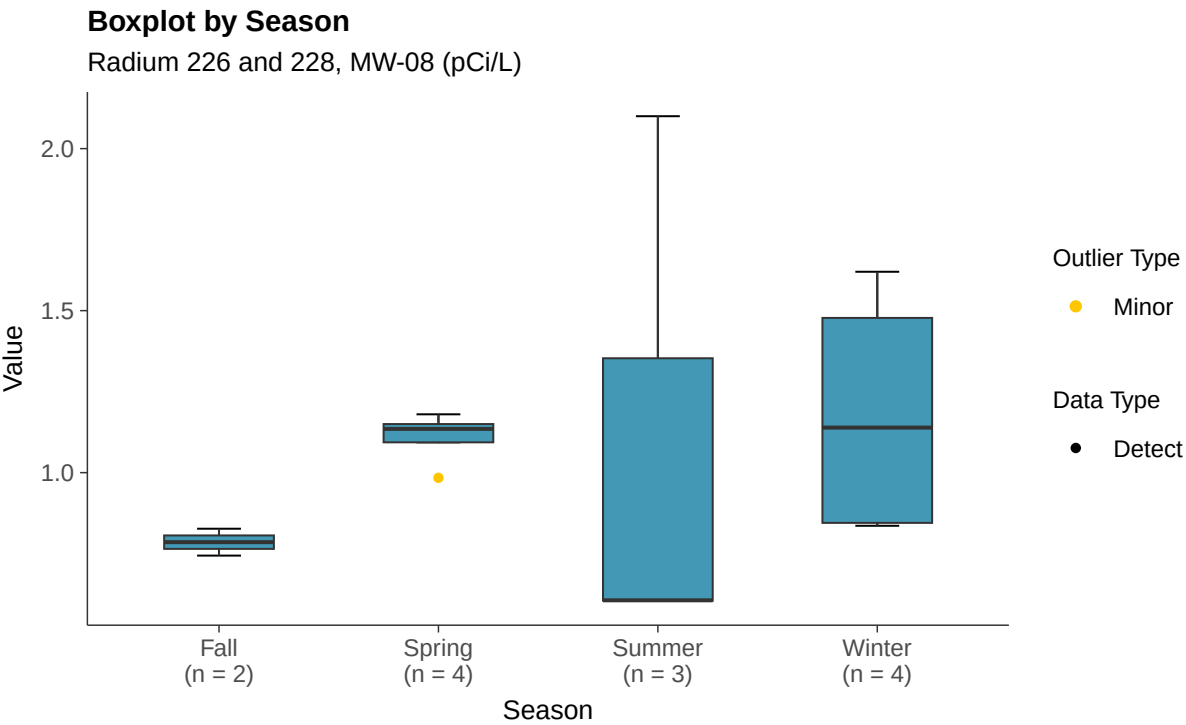
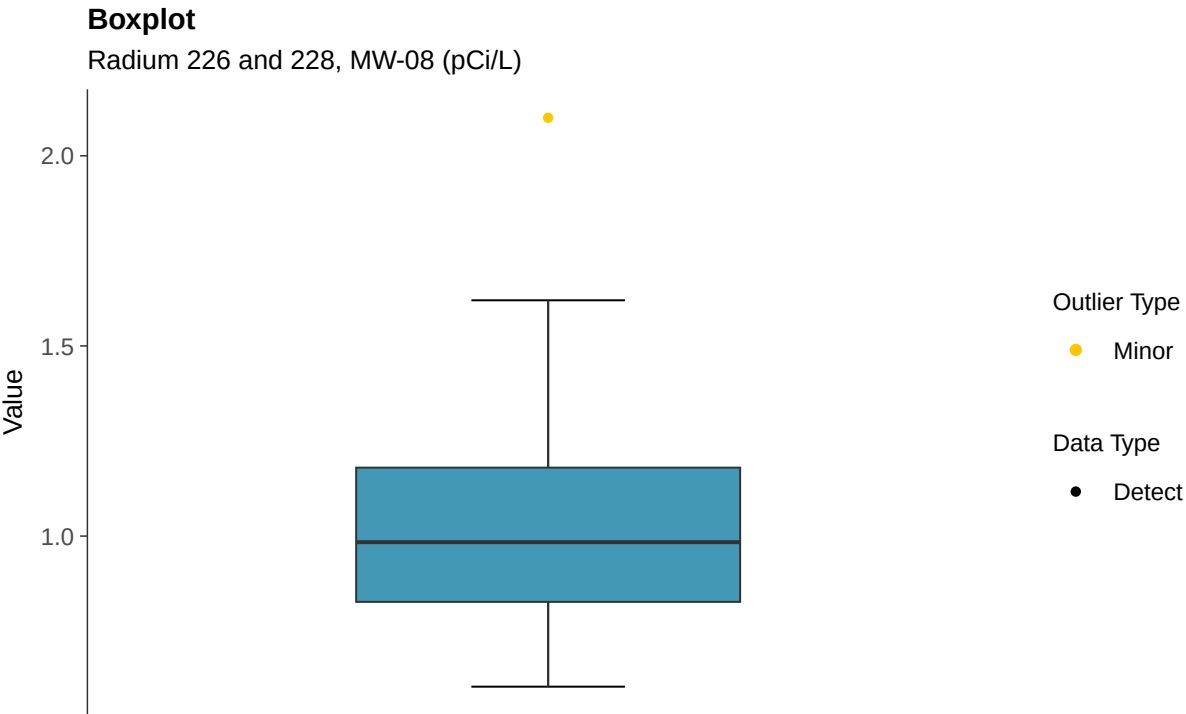




Appendix IV: Radium 226 and 228, MW-08

ID: 18_1_4_121

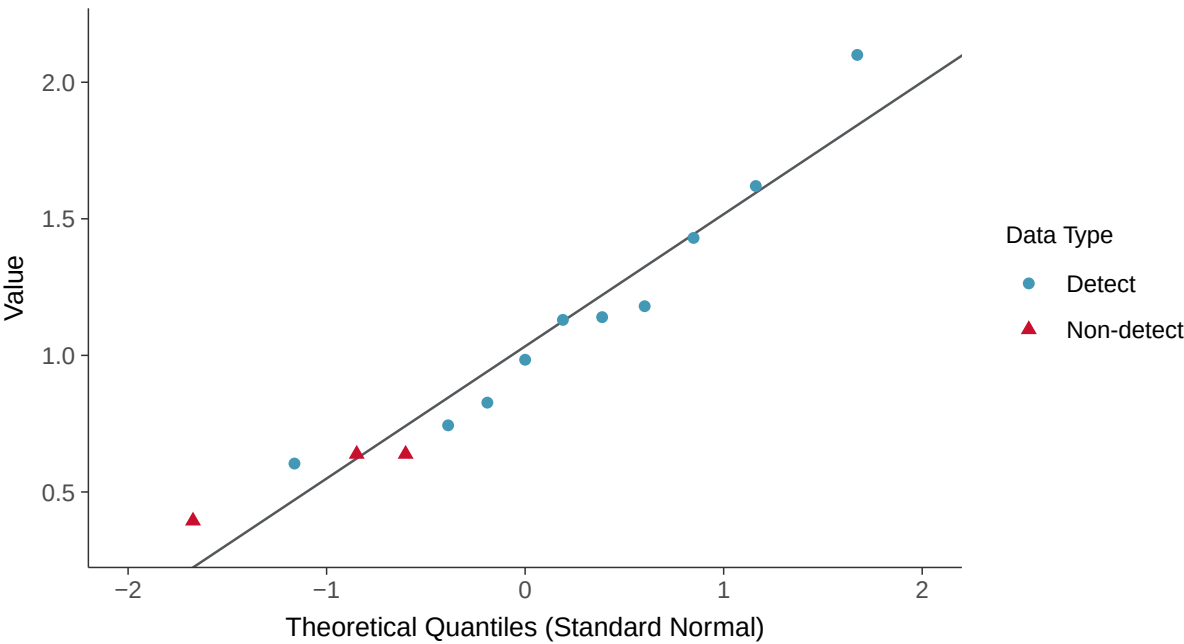






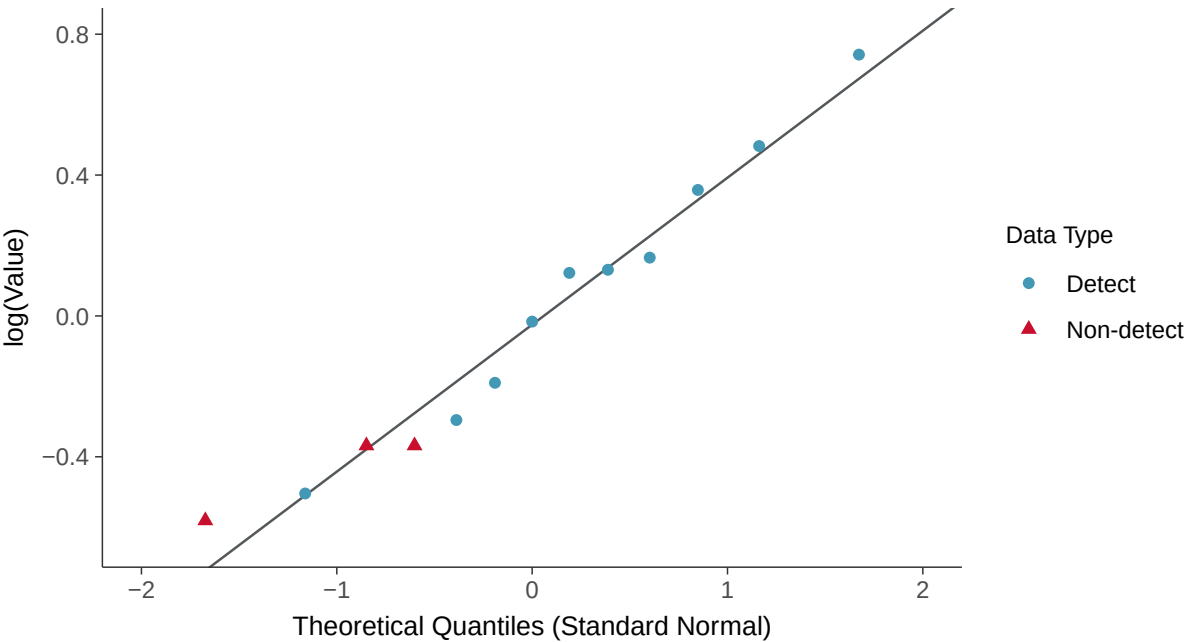
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

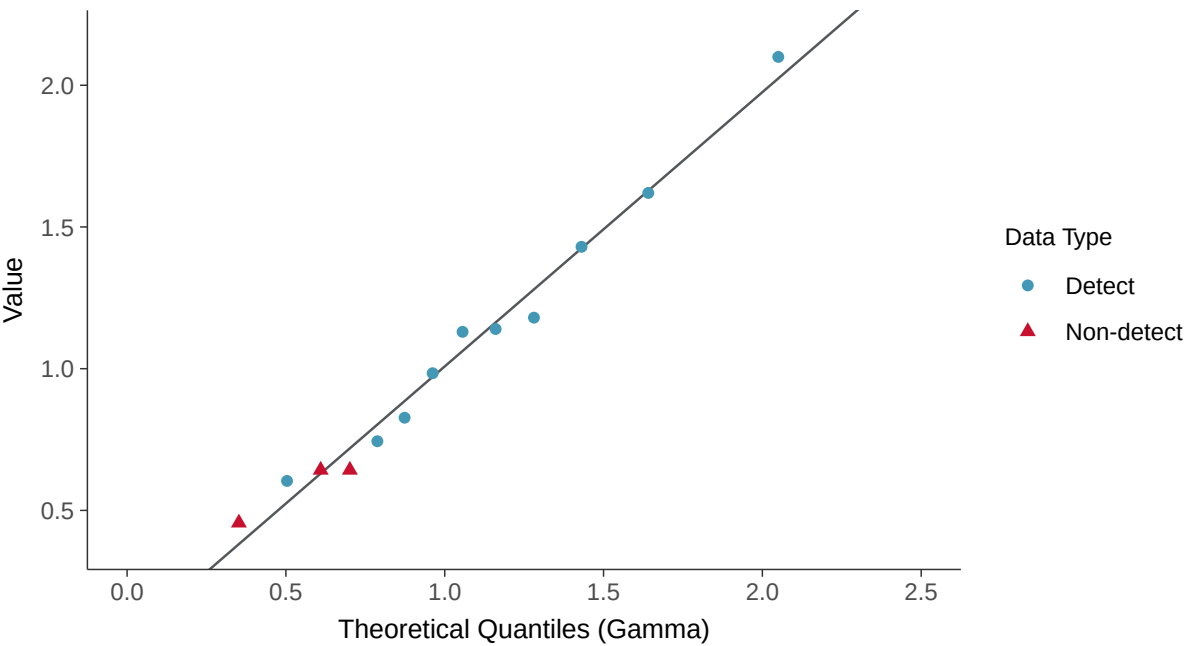
Radium 226 and 228, MW-08 (pCi/L)





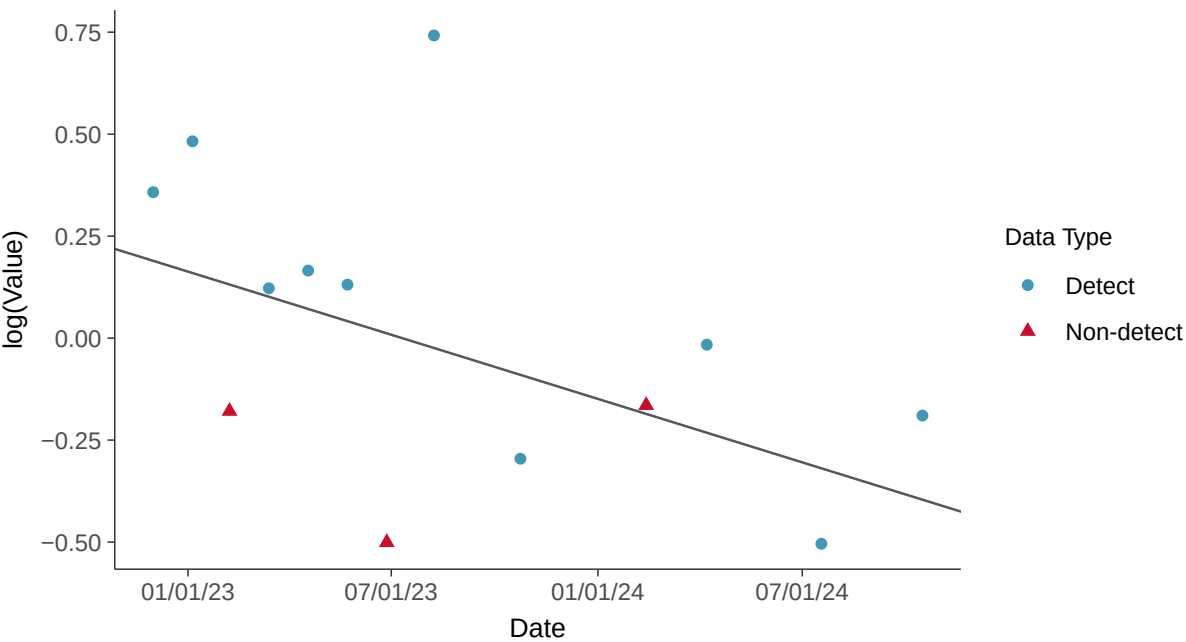
Gamma Q-Q plot using ROS Imputed Estimates

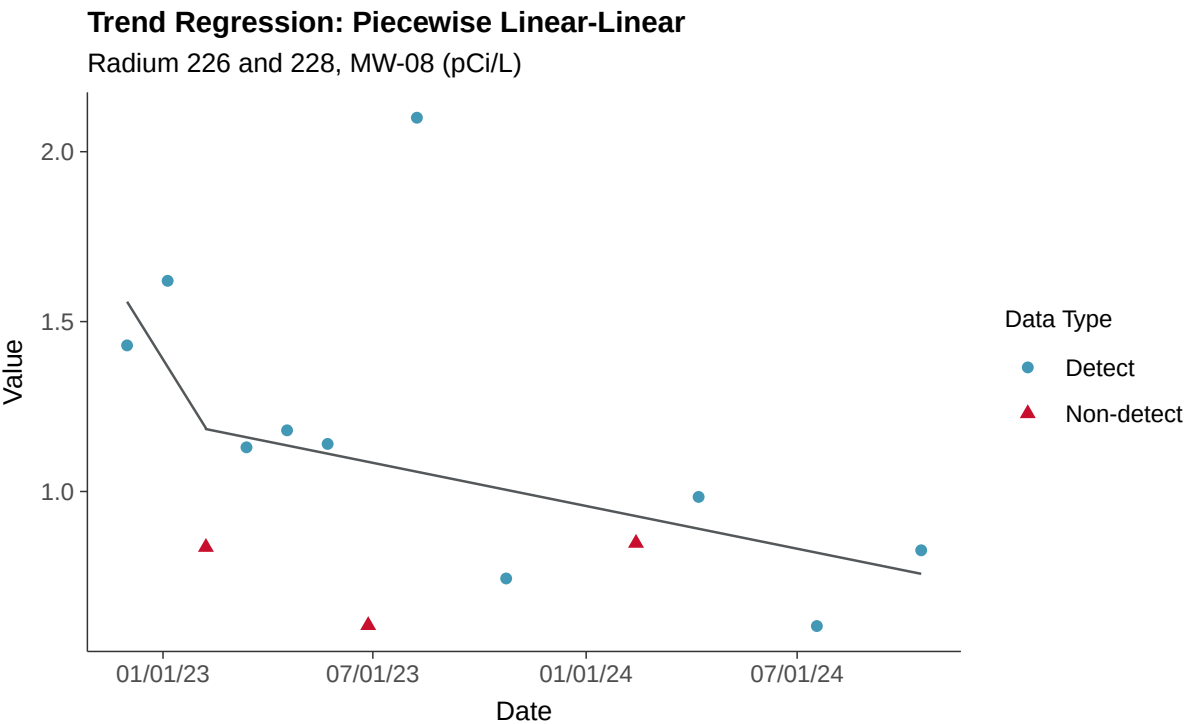
Radium 226 and 228, MW-08 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-08 (pCi/L)

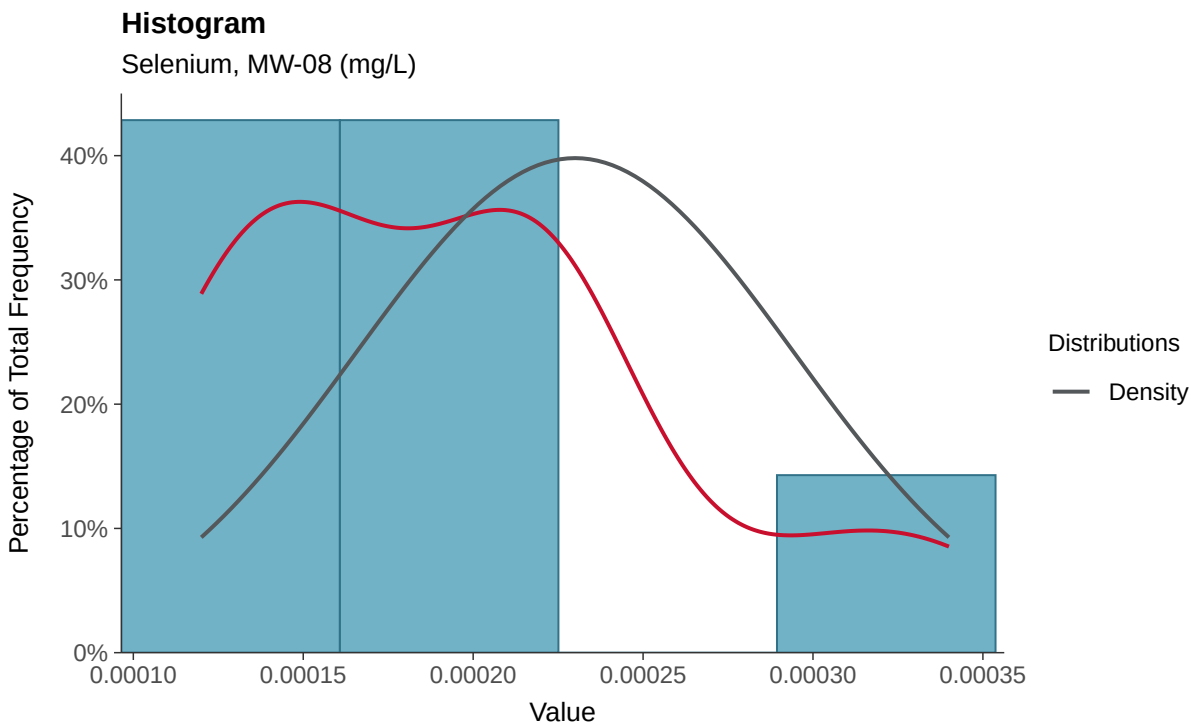
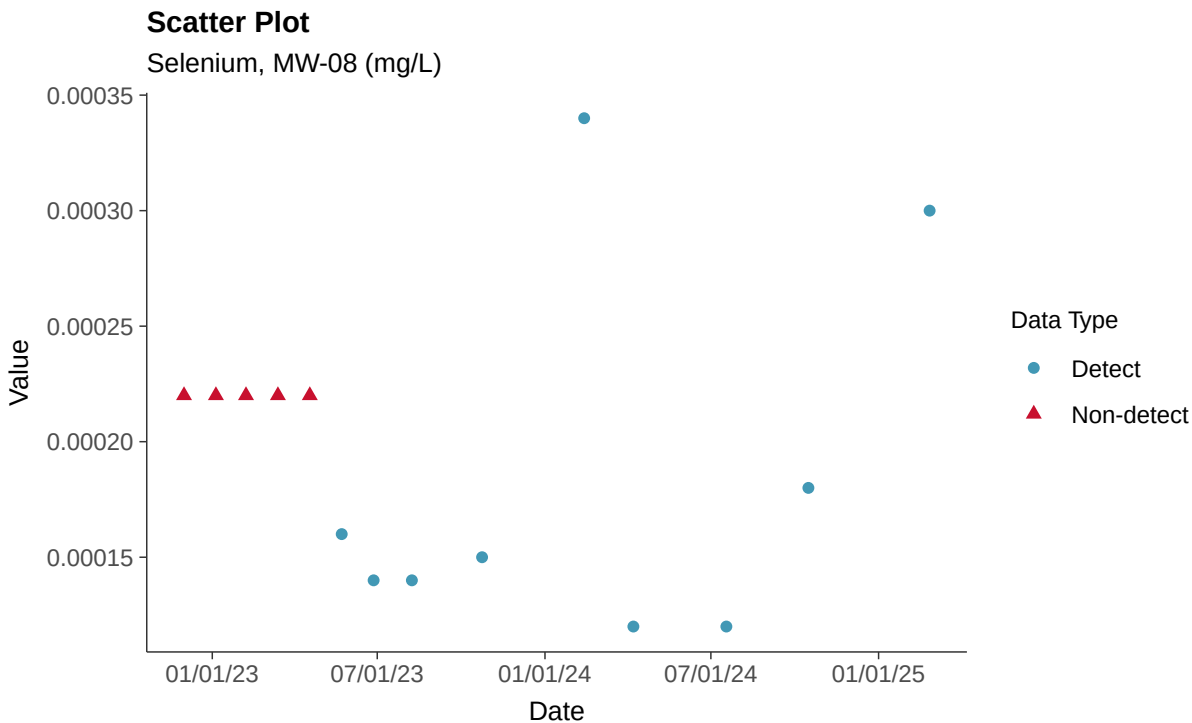


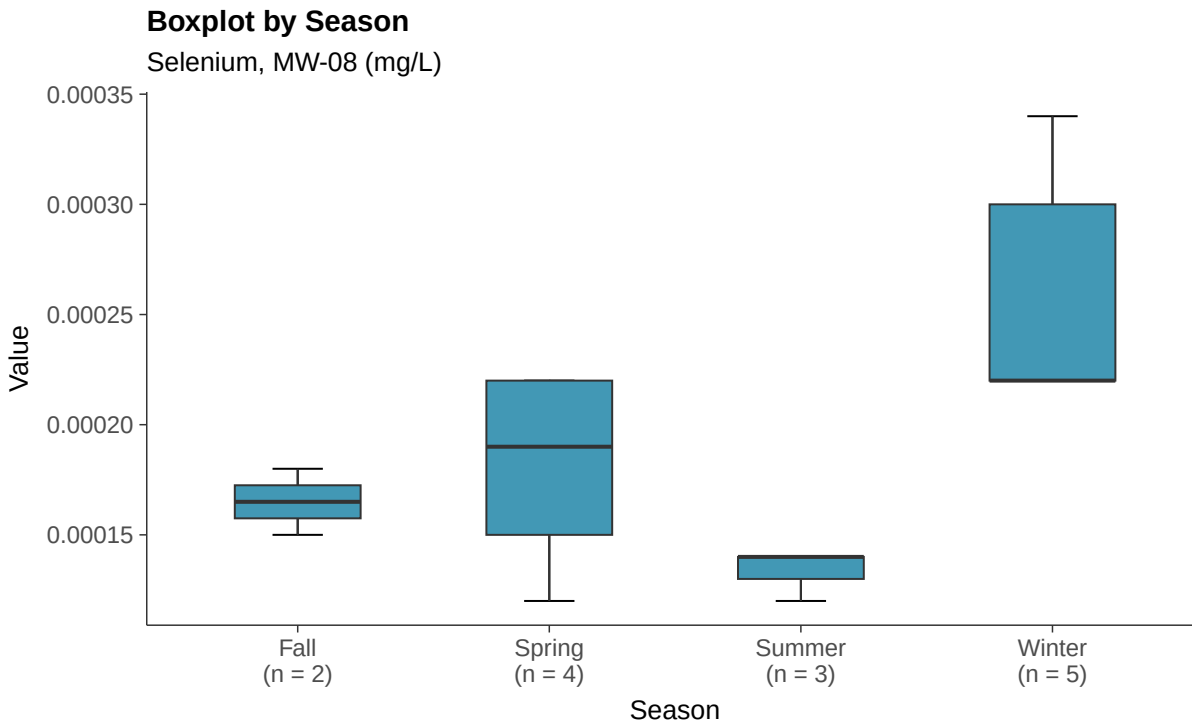
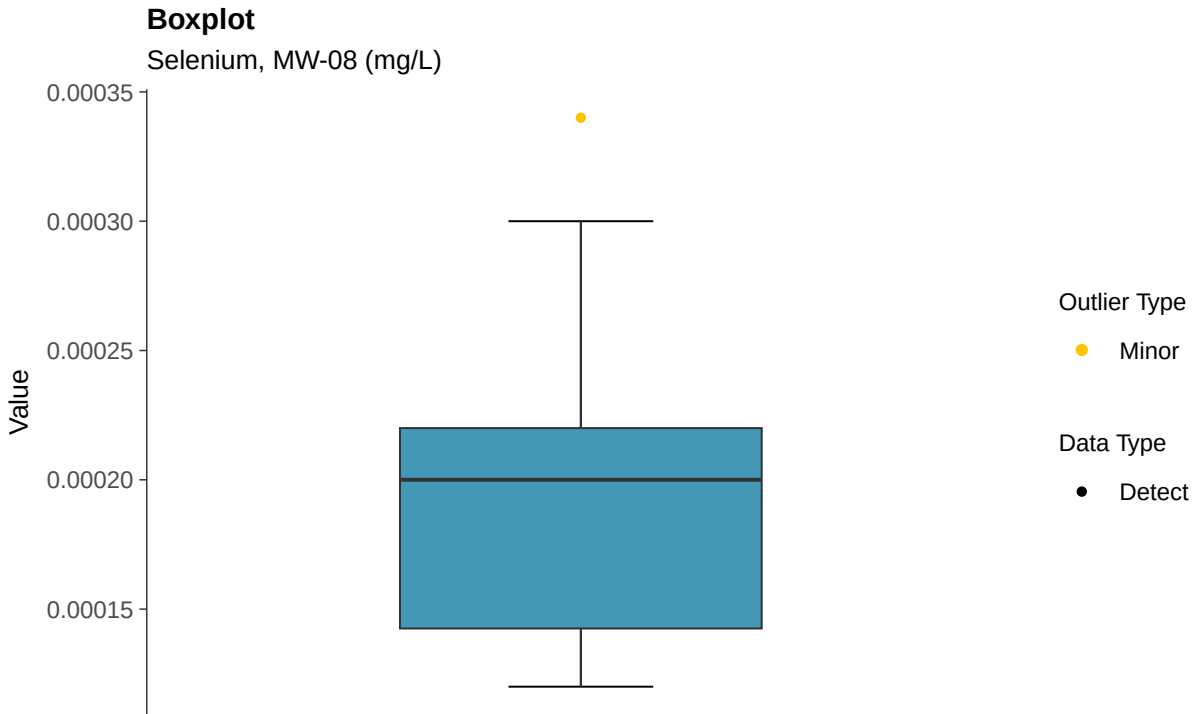




Appendix IV: Selenium, MW-08

ID: 18_1_4_122

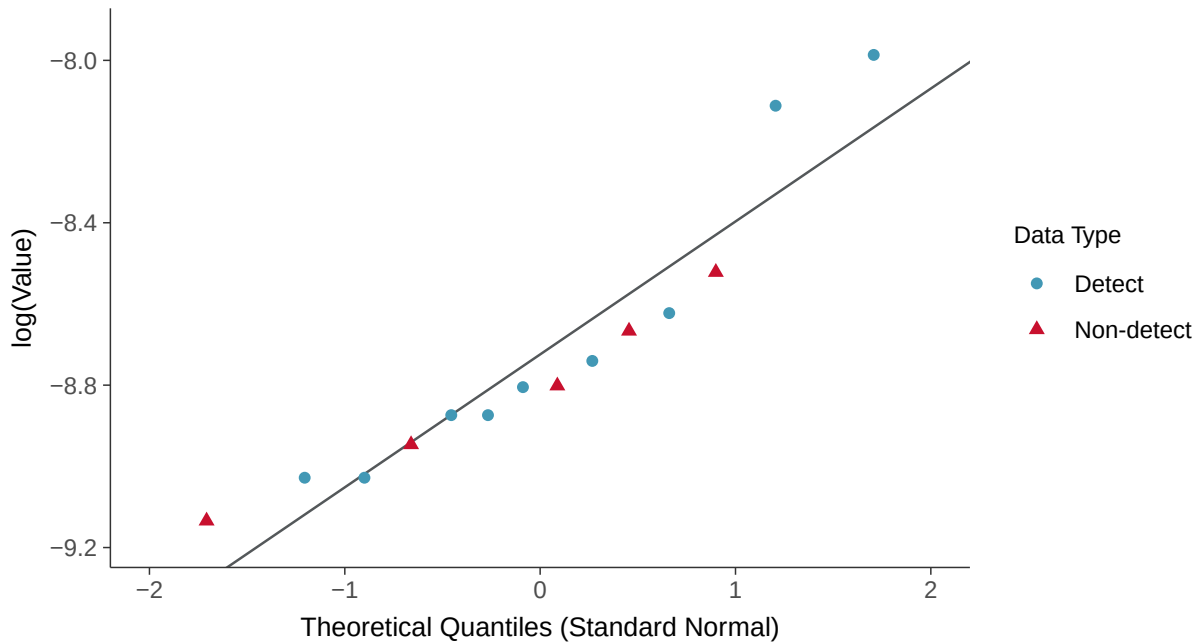






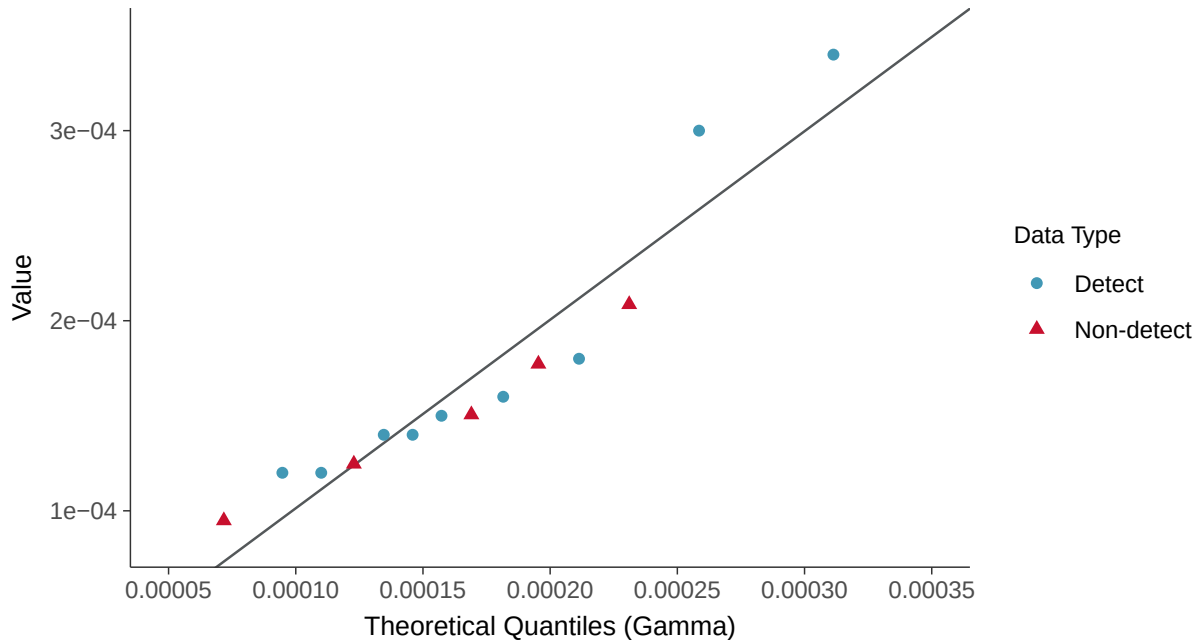
Lognormal Q-Q plot using ROS Imputed Estimates

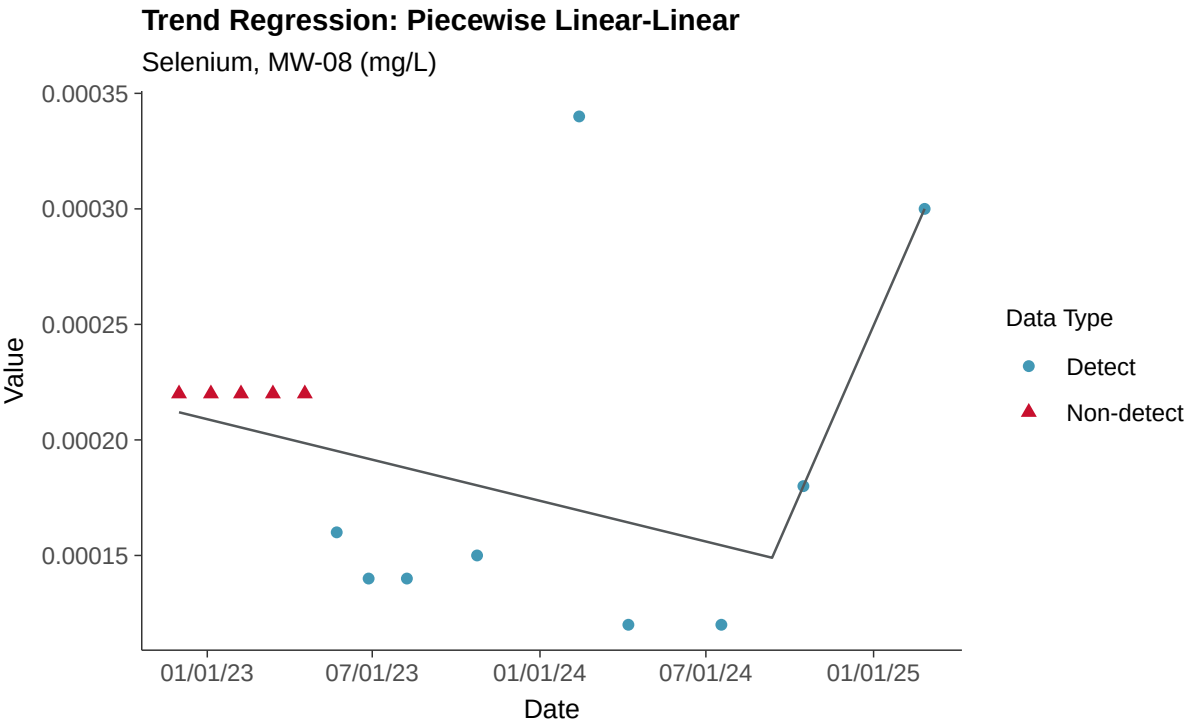
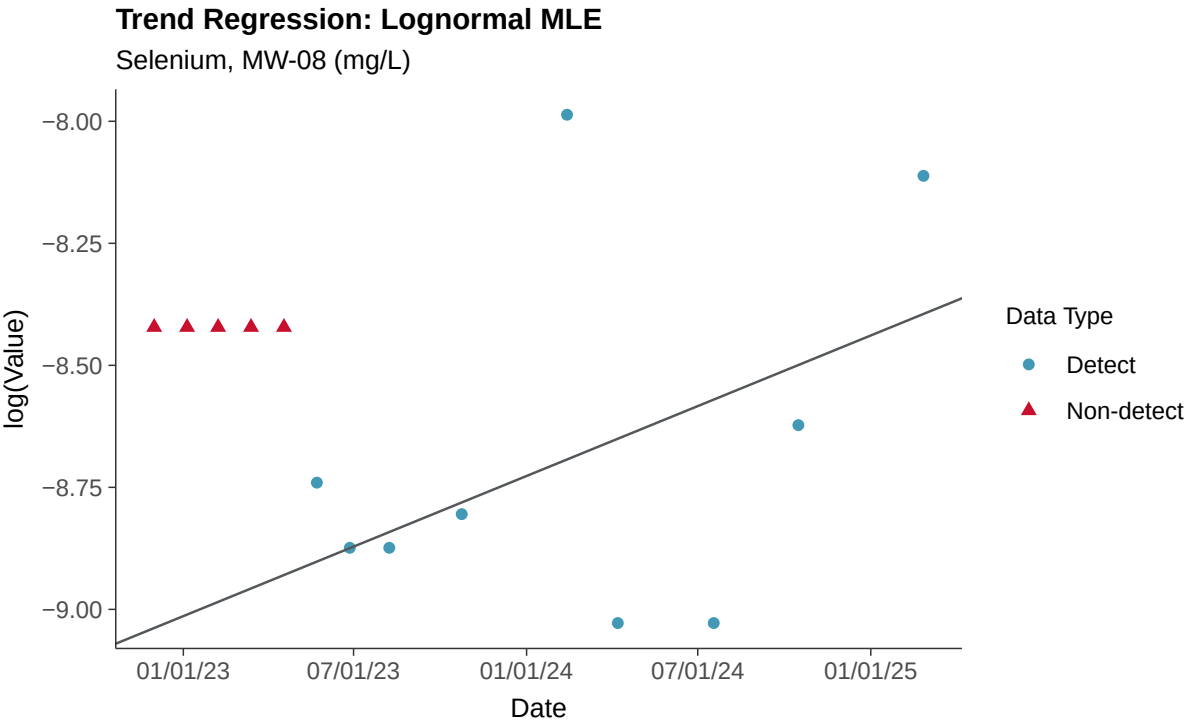
Selenium, MW-08 (mg/L)

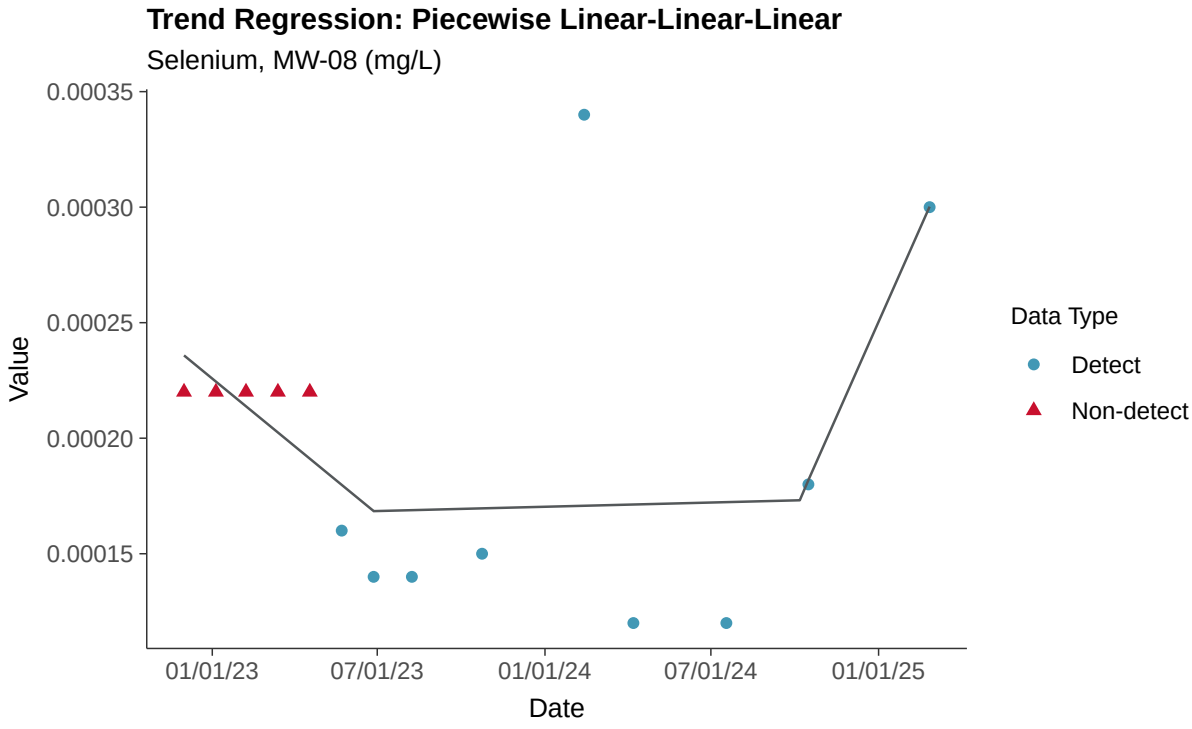


Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-08 (mg/L)



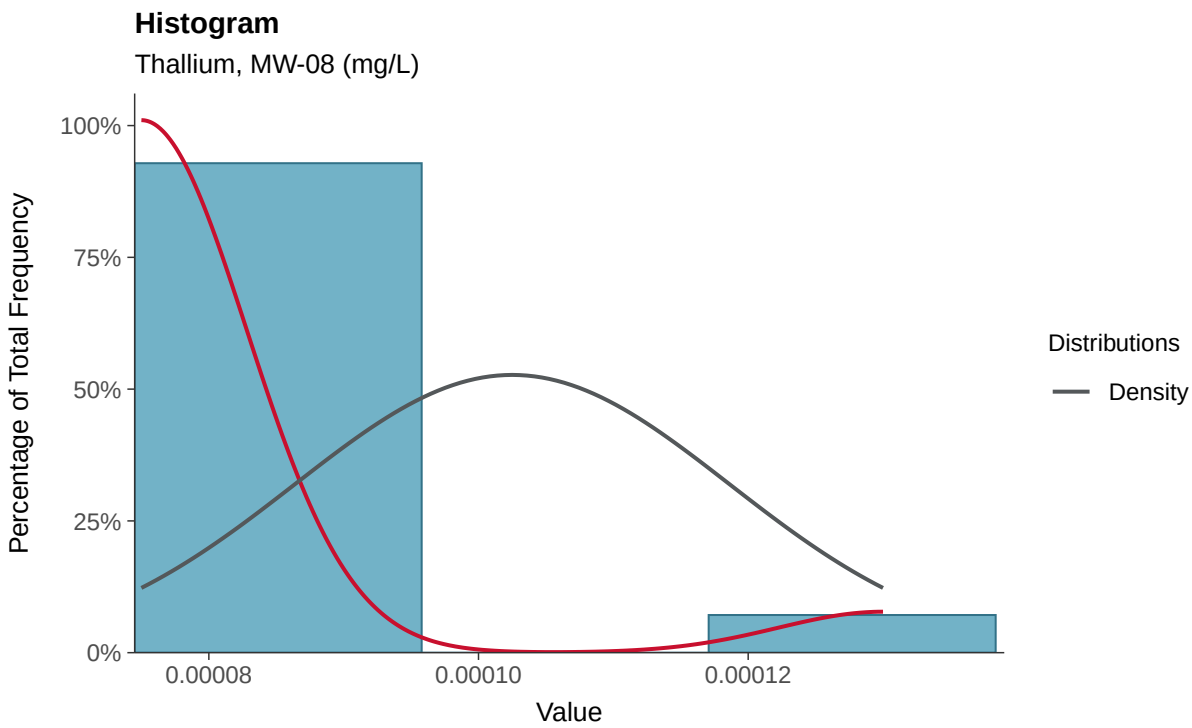
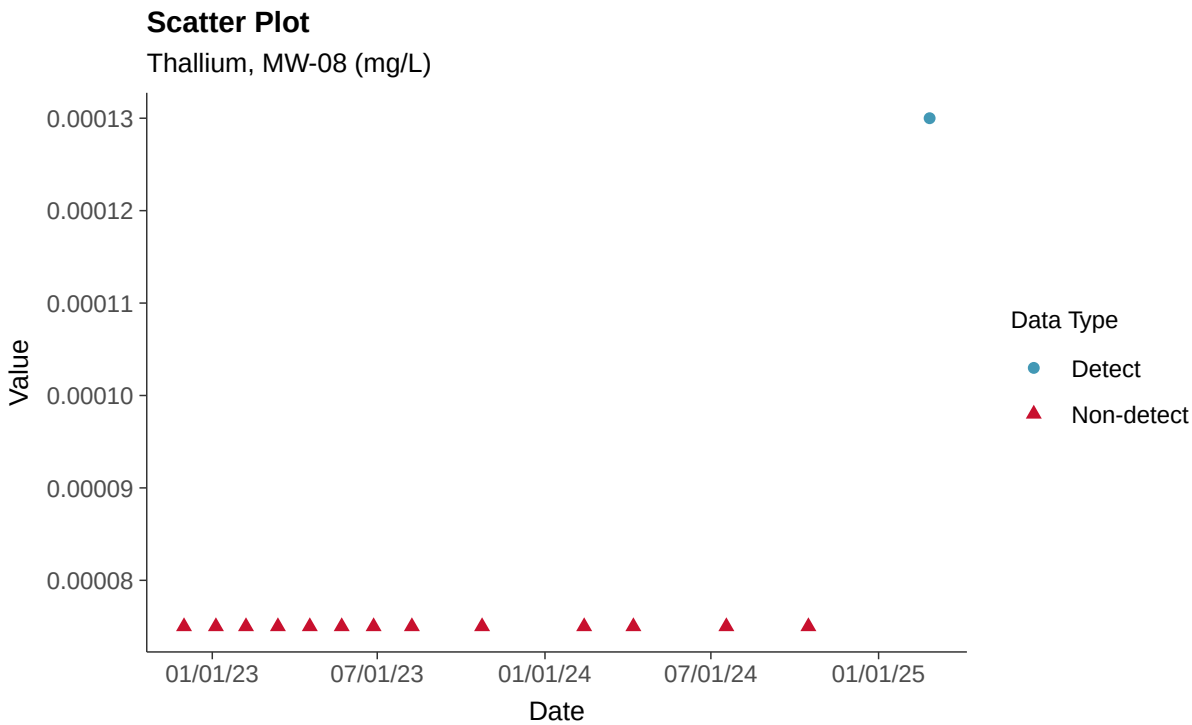


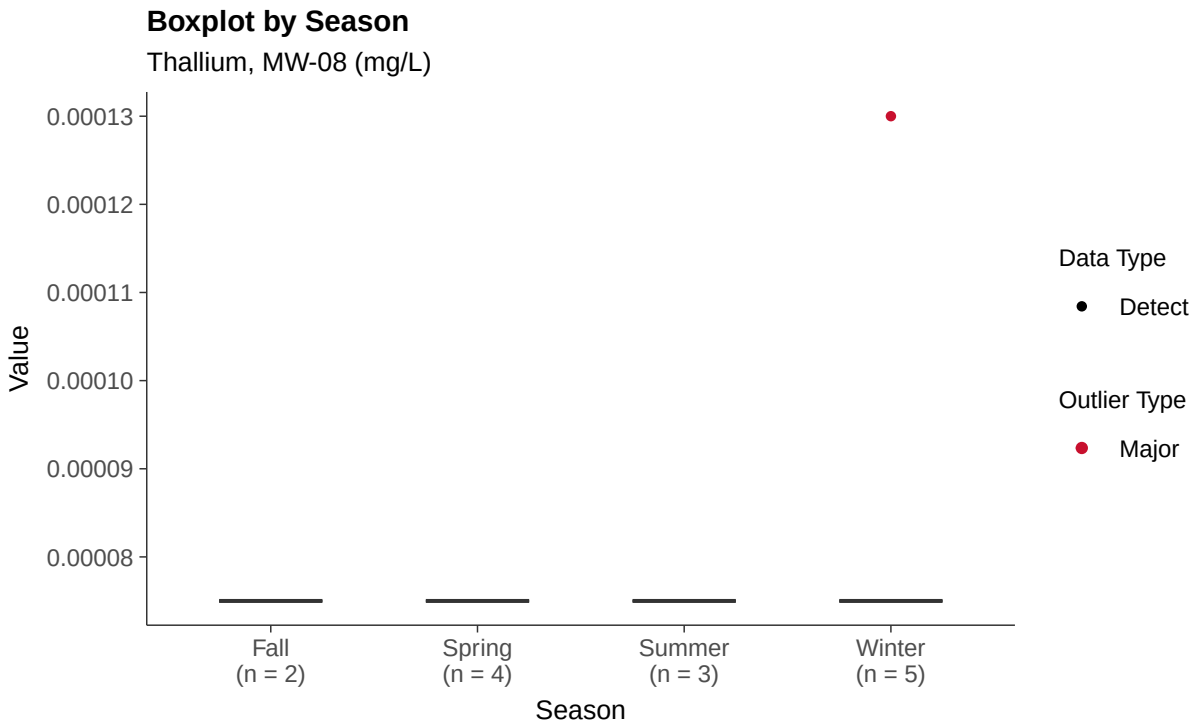
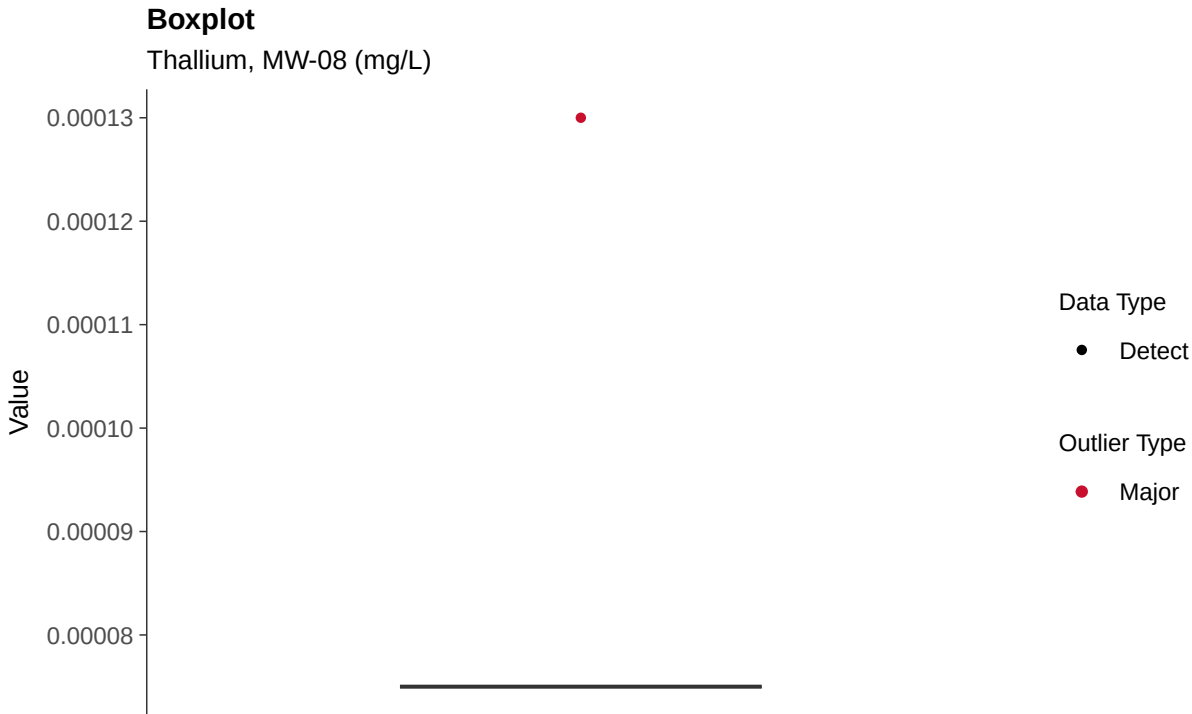




Appendix IV: Thallium, MW-08

ID: 18_1_4_125

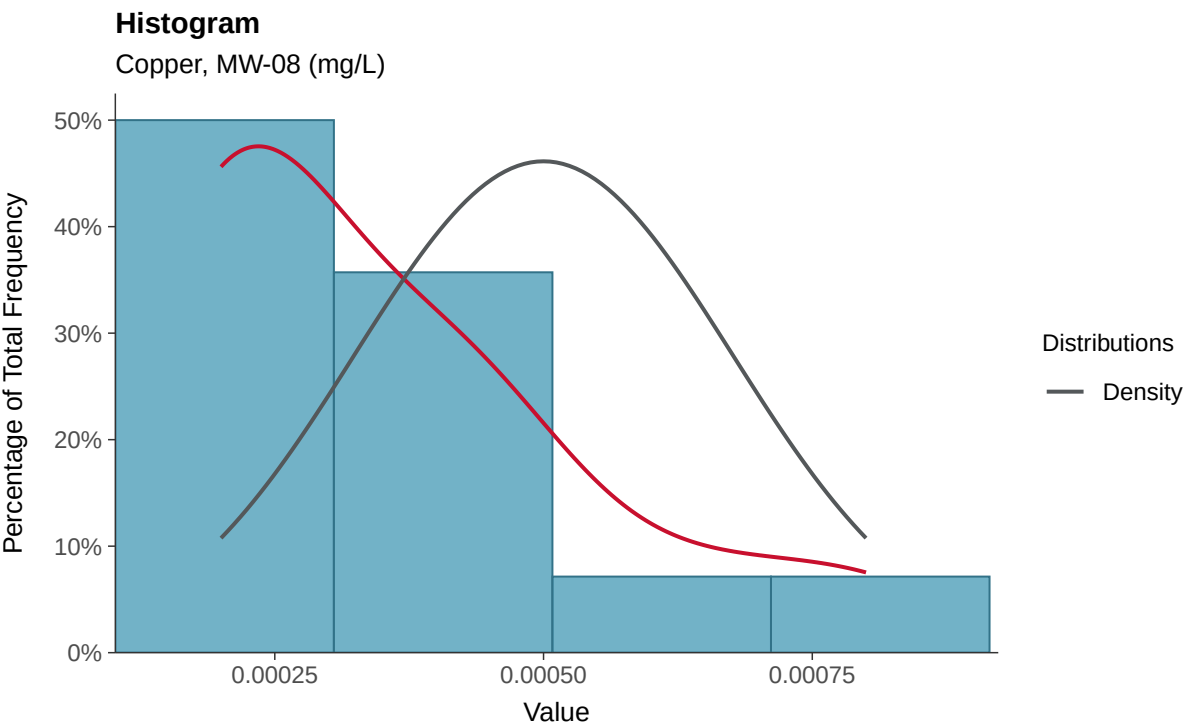
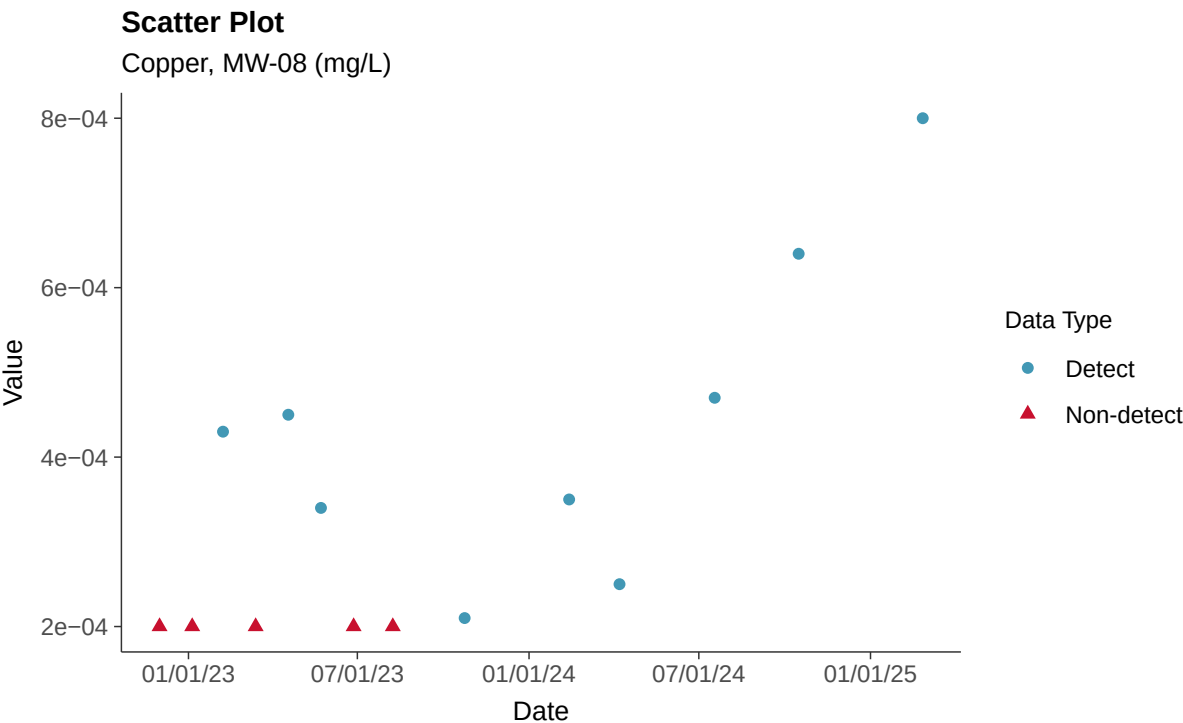


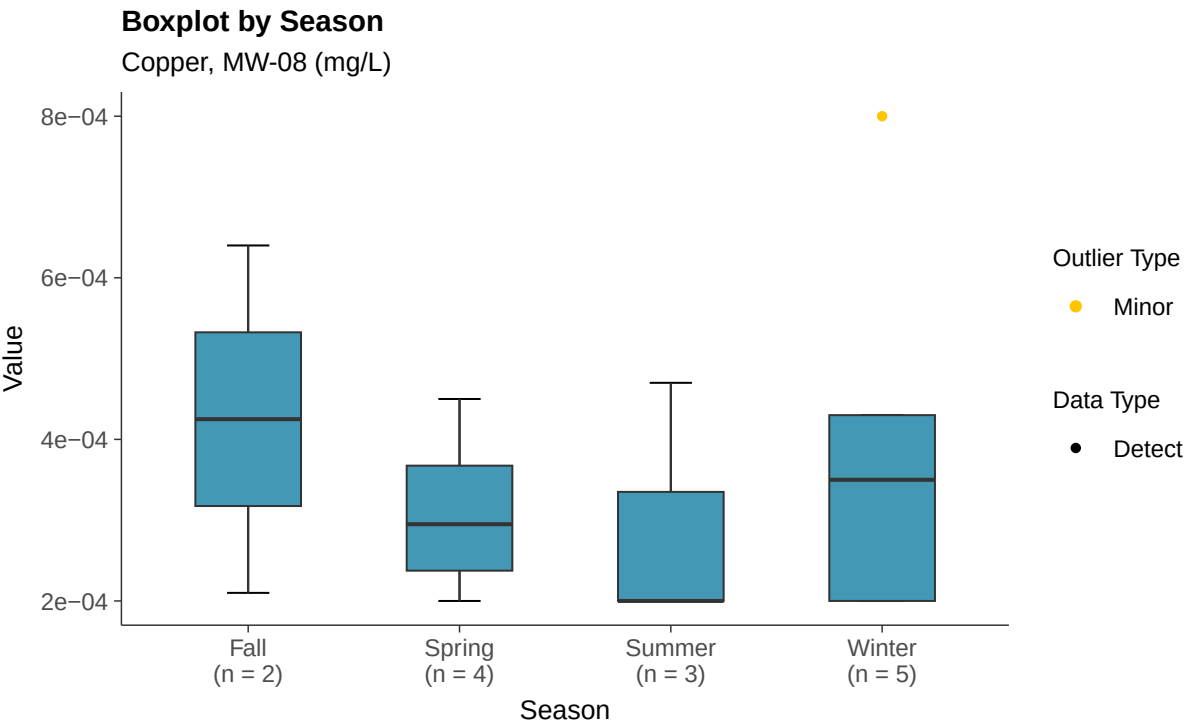
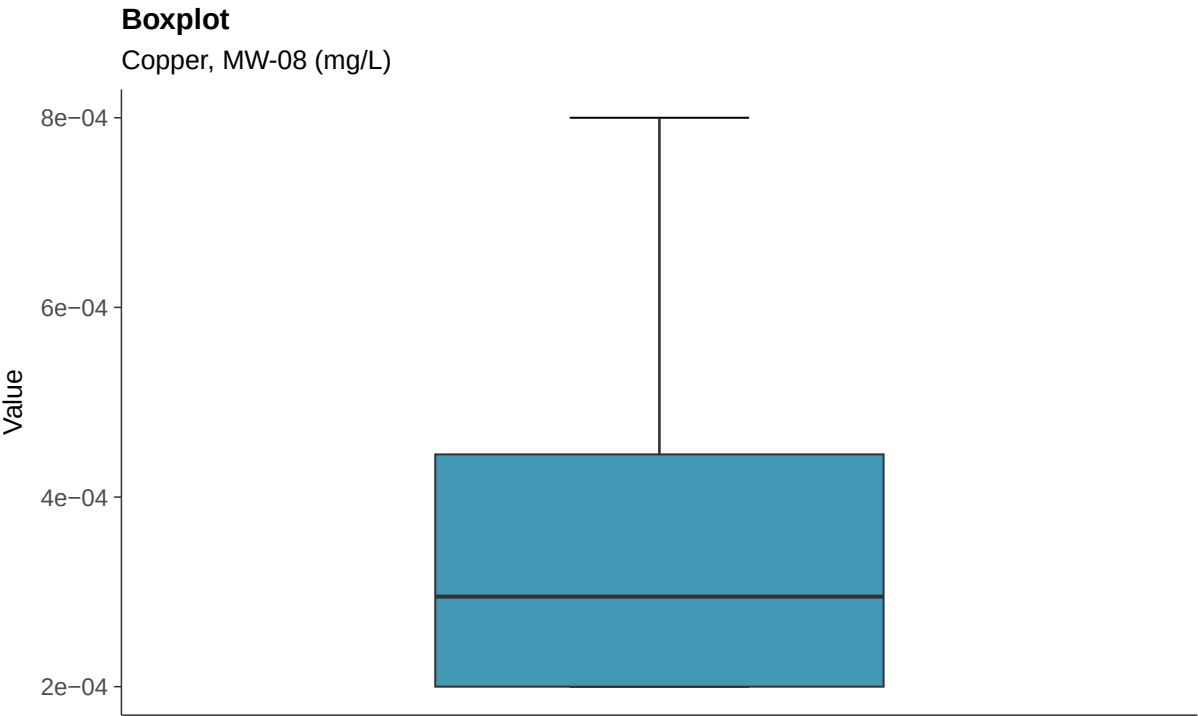




Part 115: Copper, MW-08

ID: 18_1_5_111

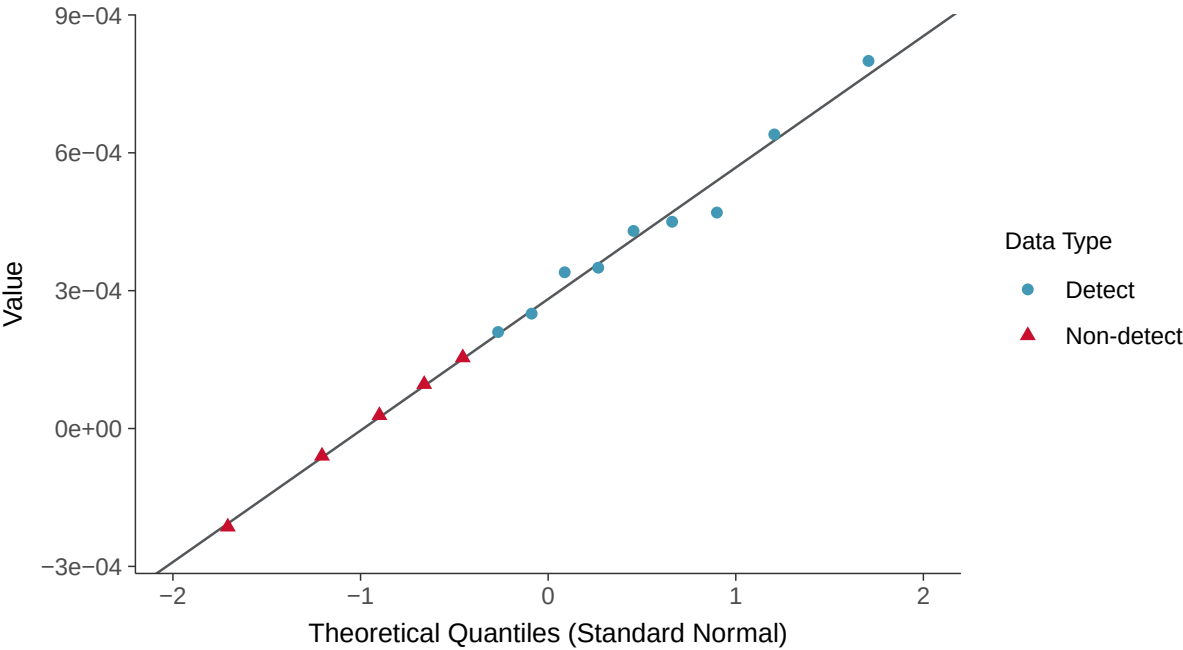






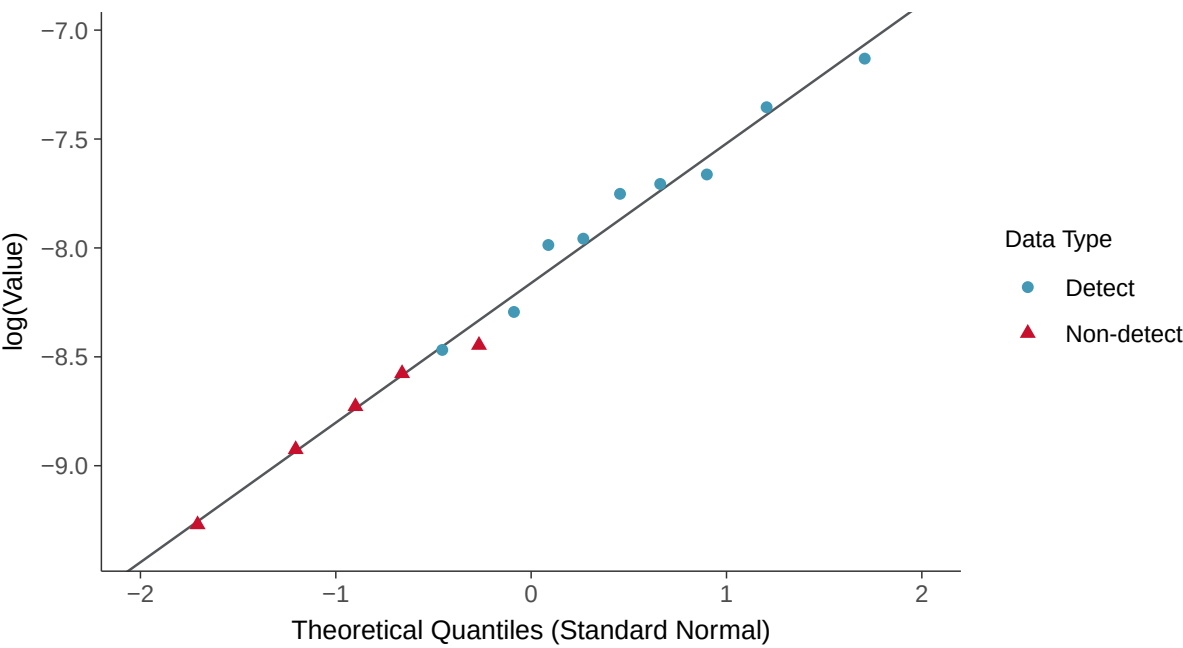
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)

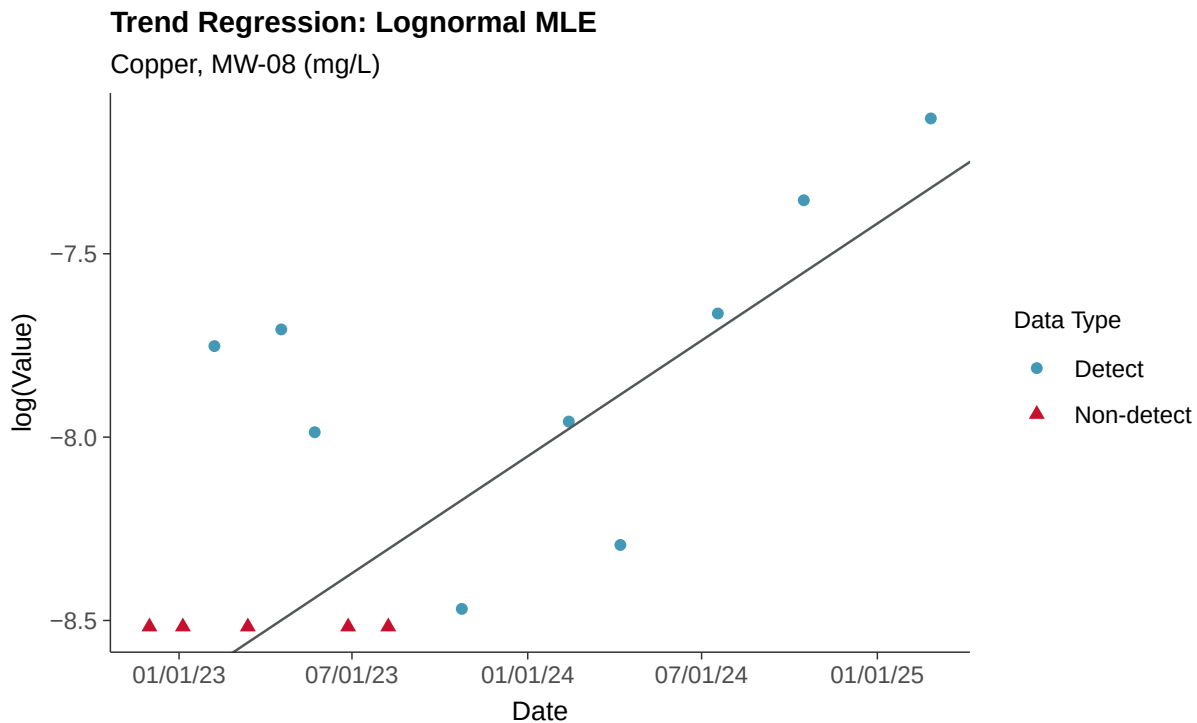


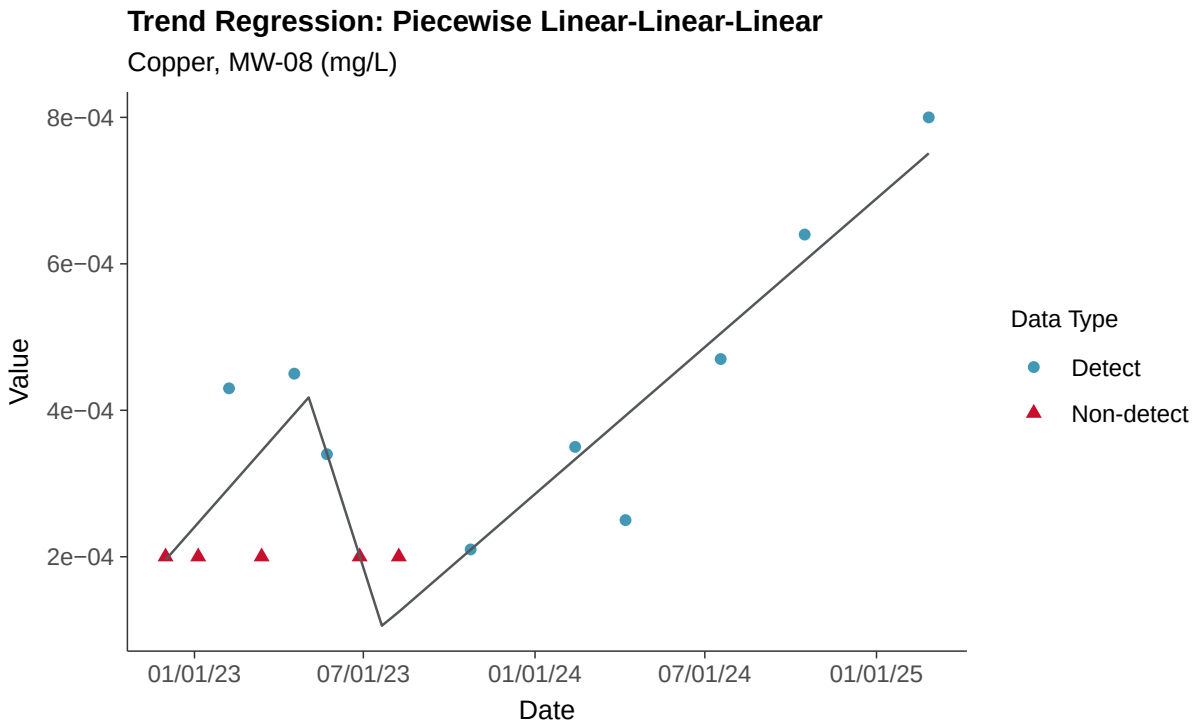
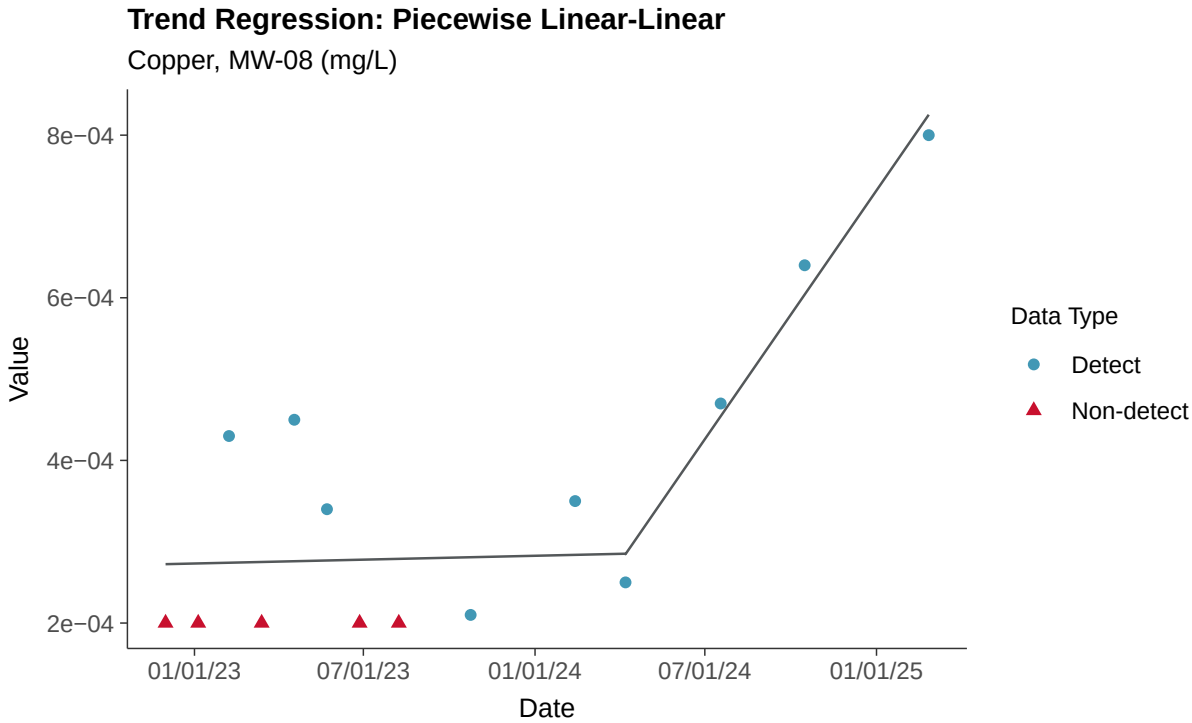
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)



Copper, MW-08 (mg/L)

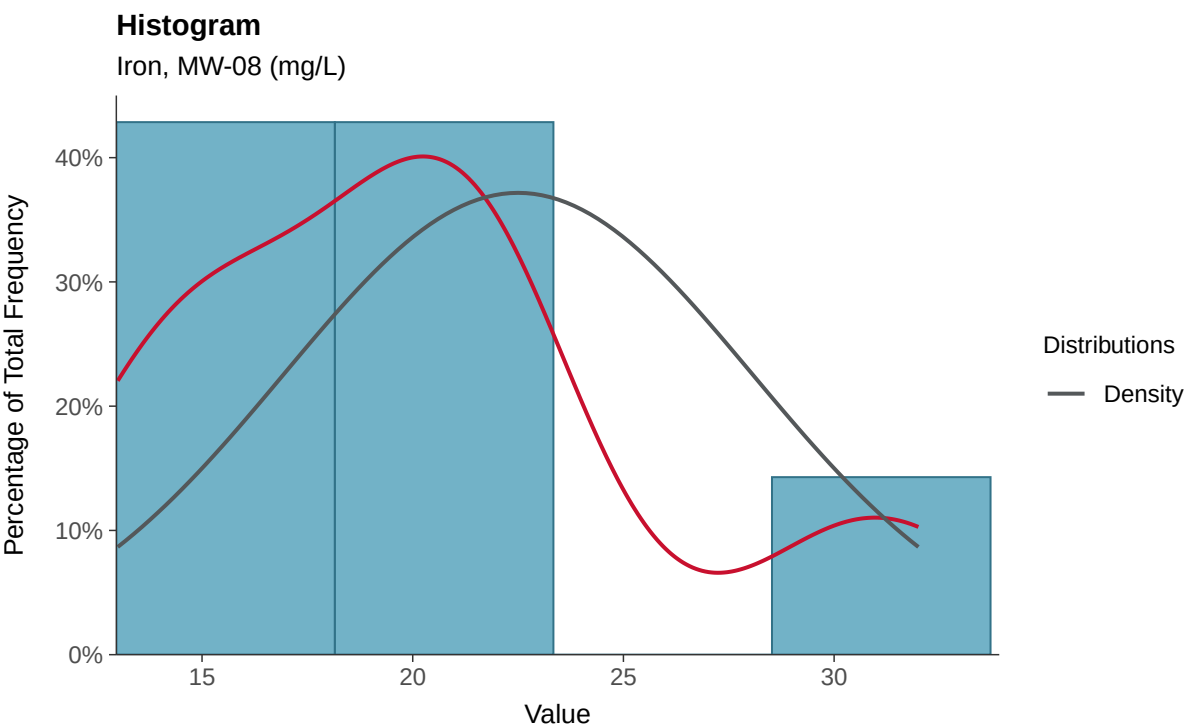
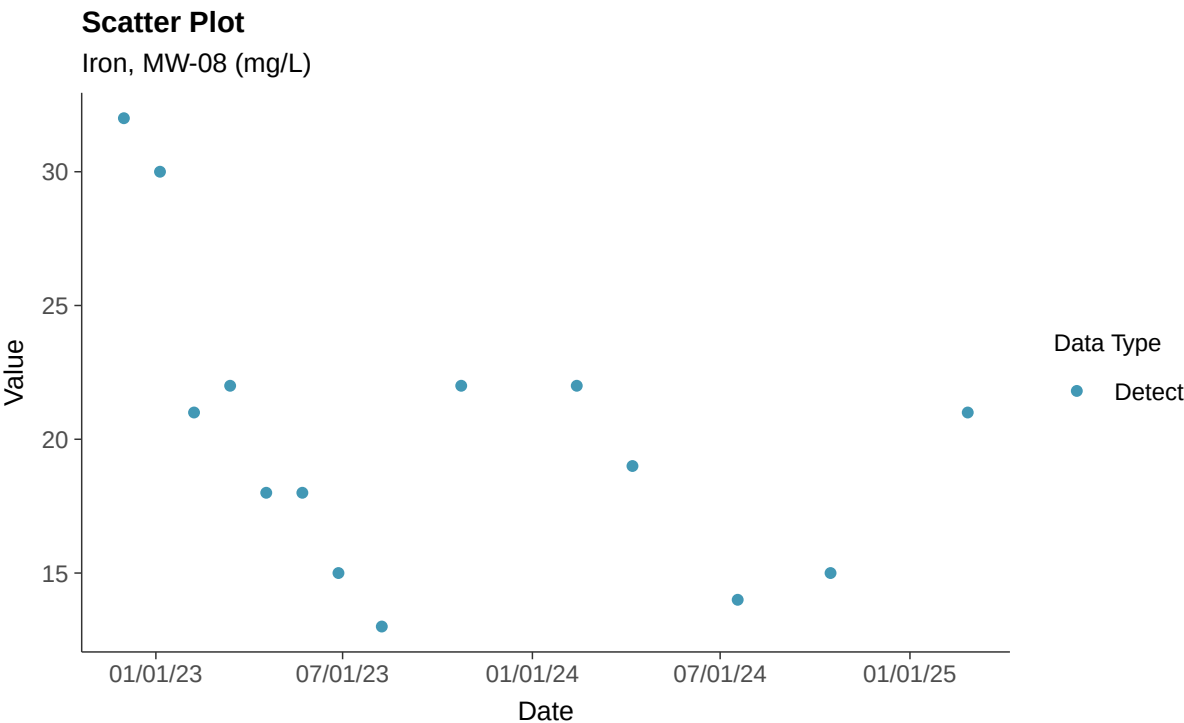


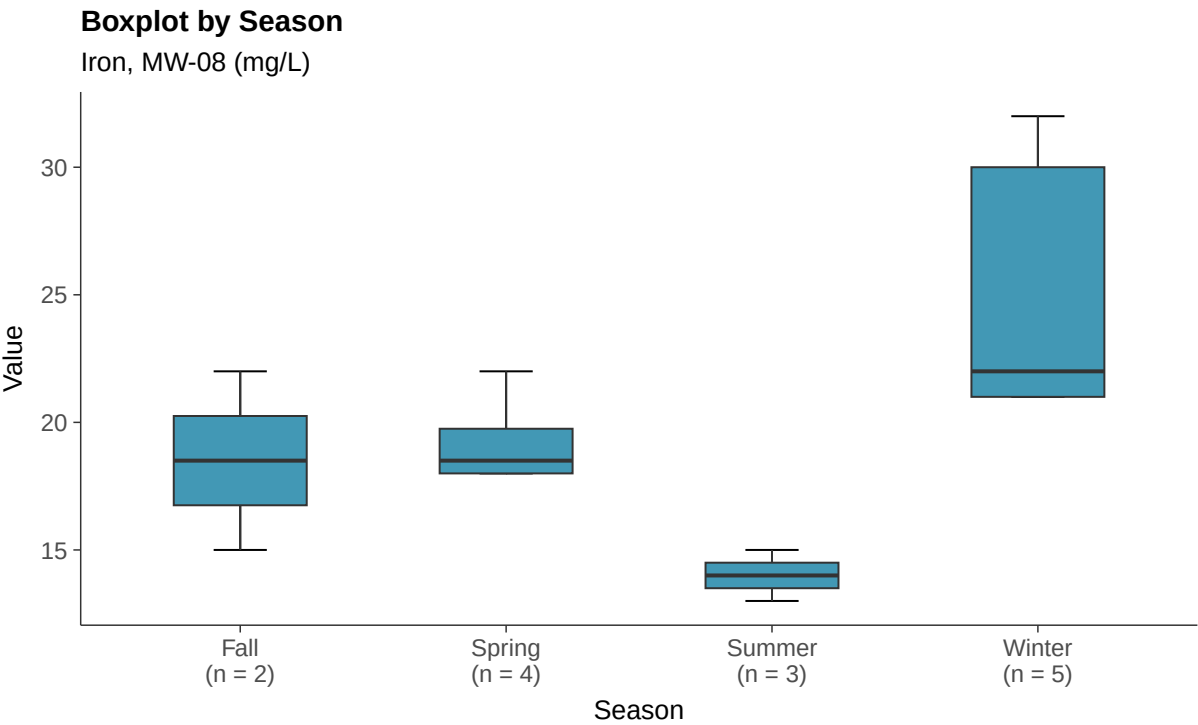
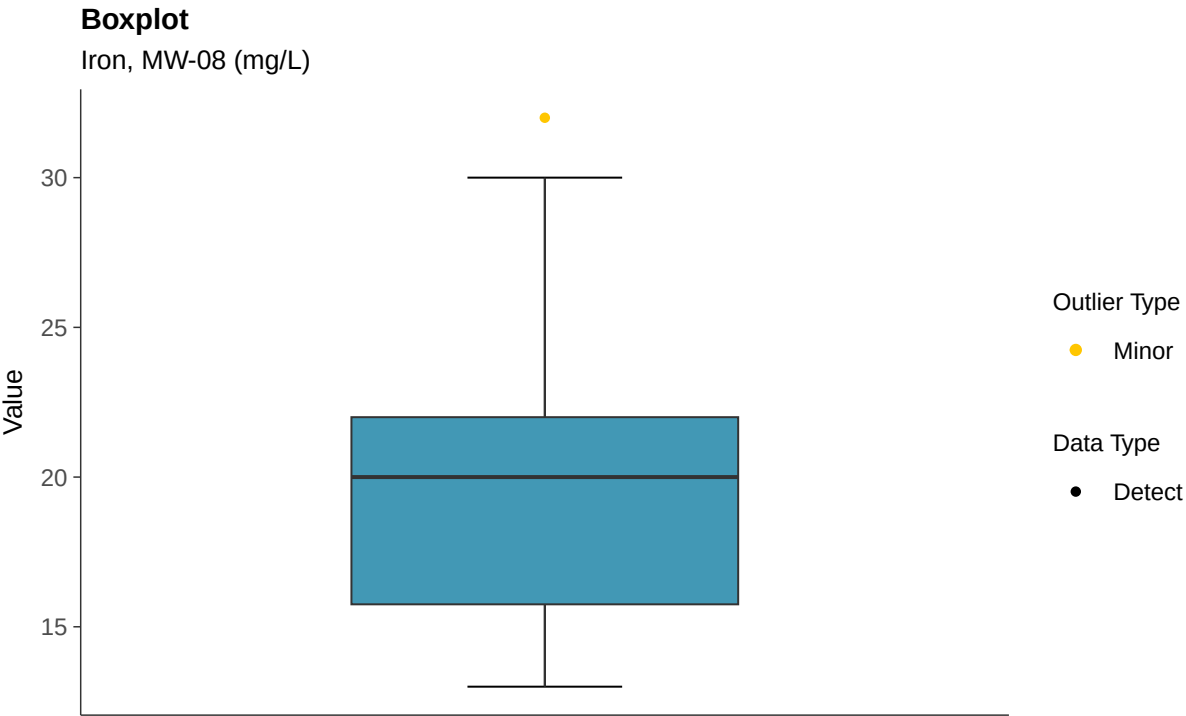


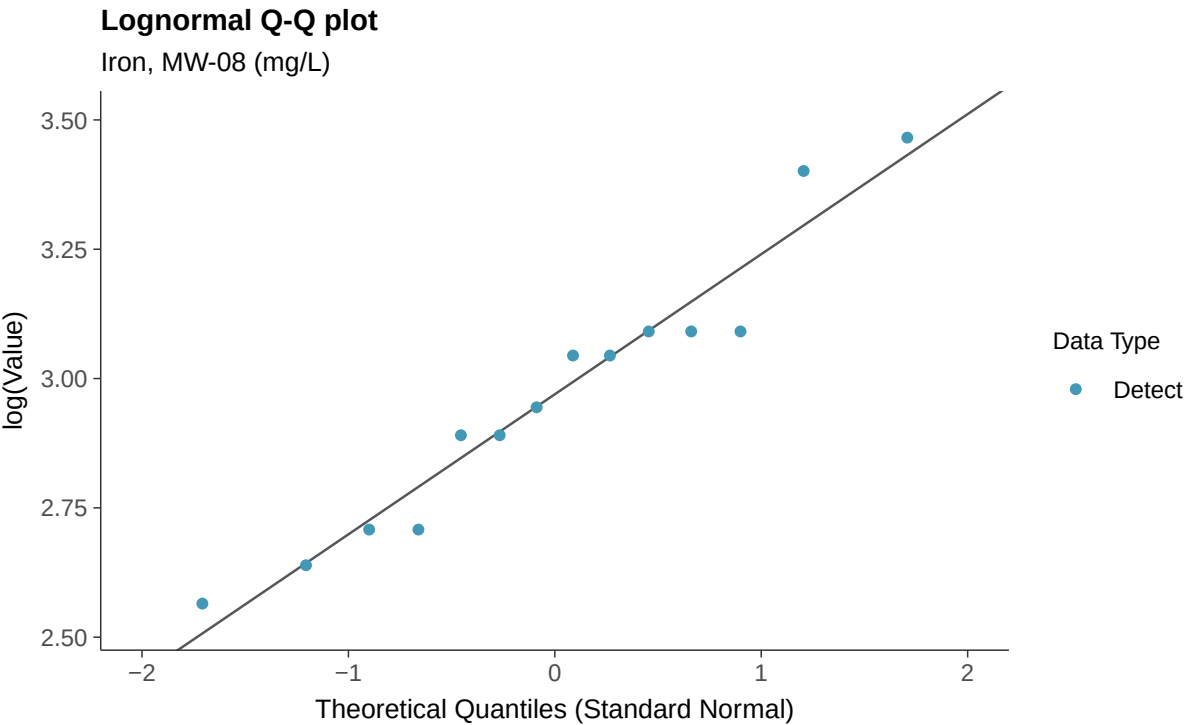
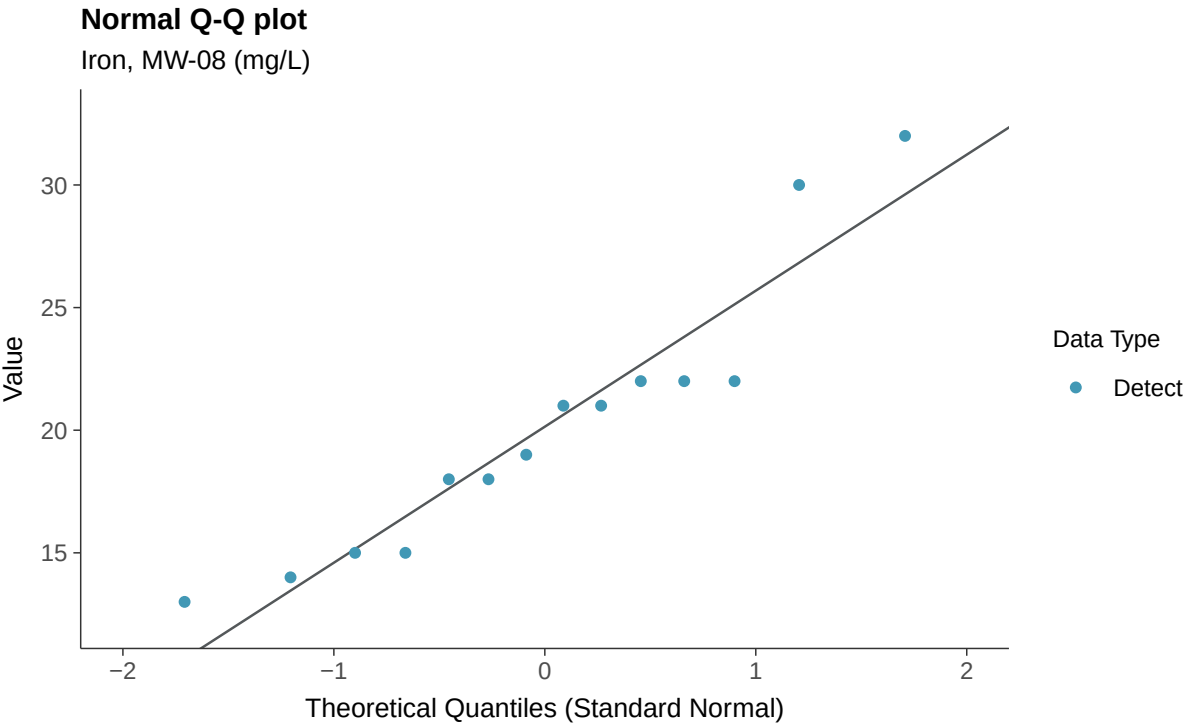


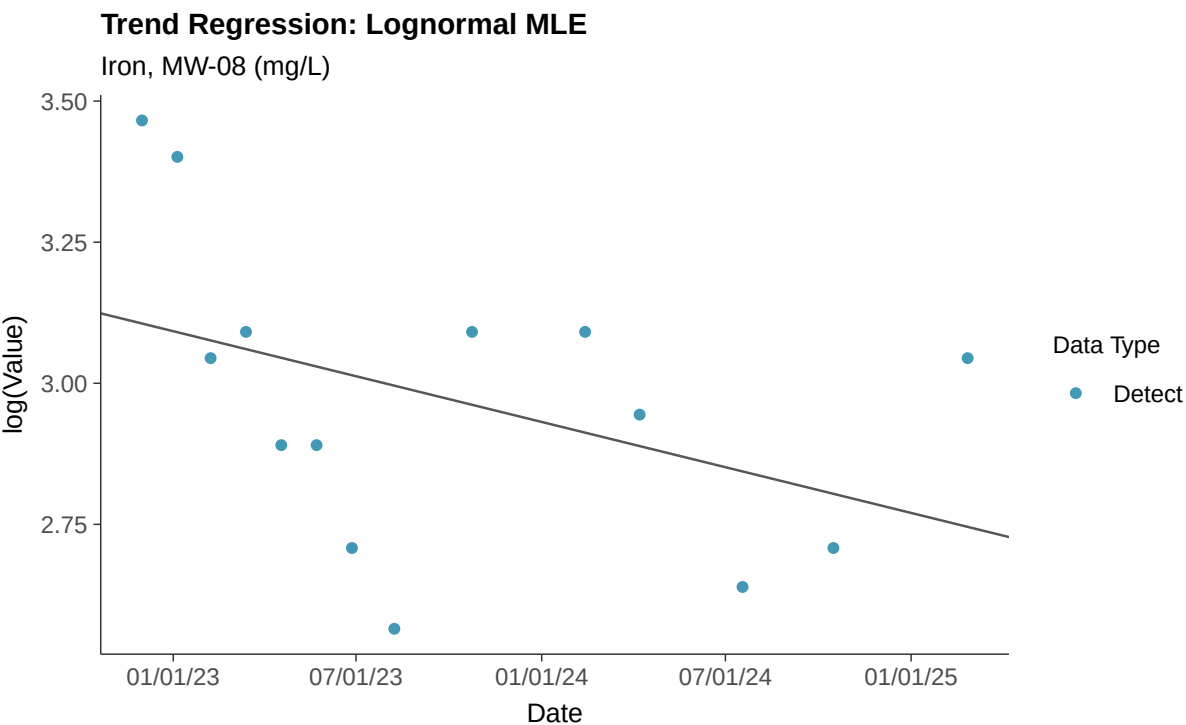
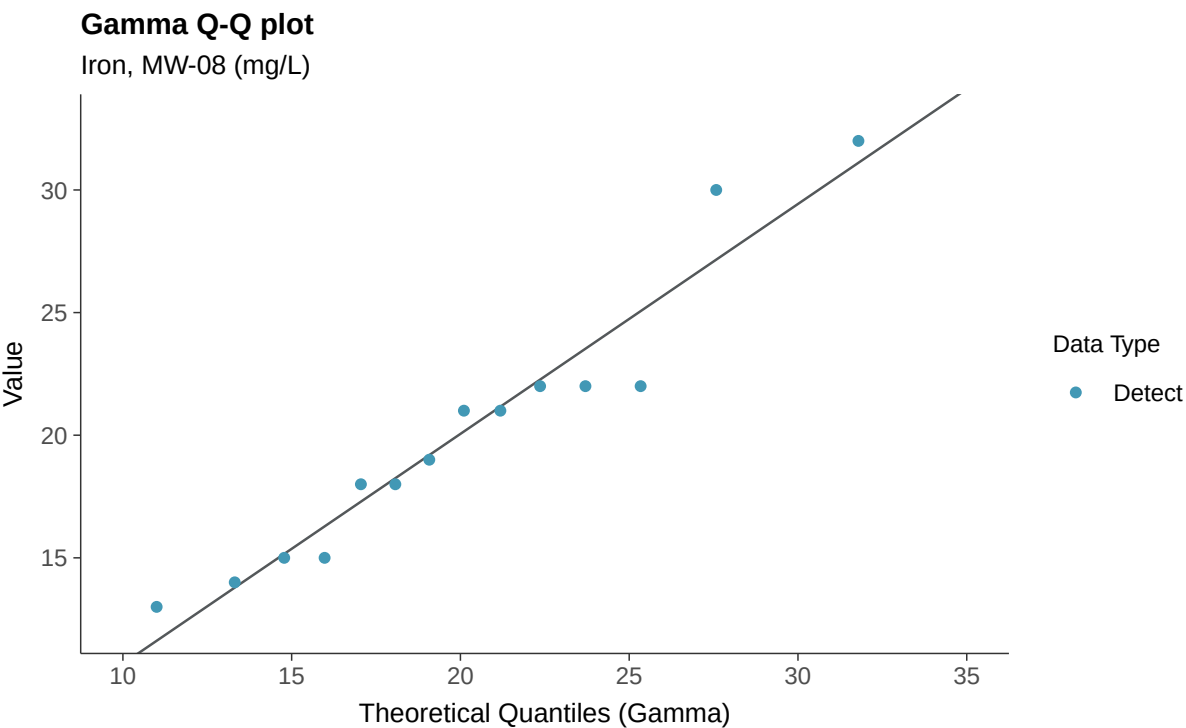
Part 115: Iron, MW-08

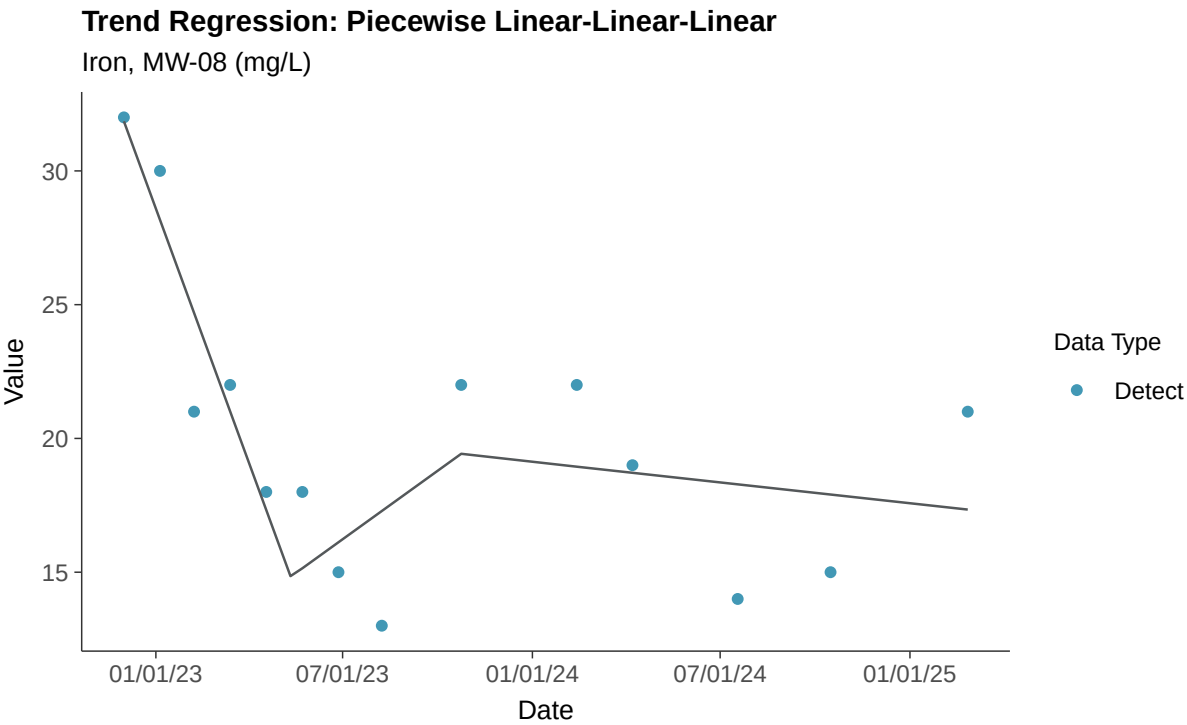
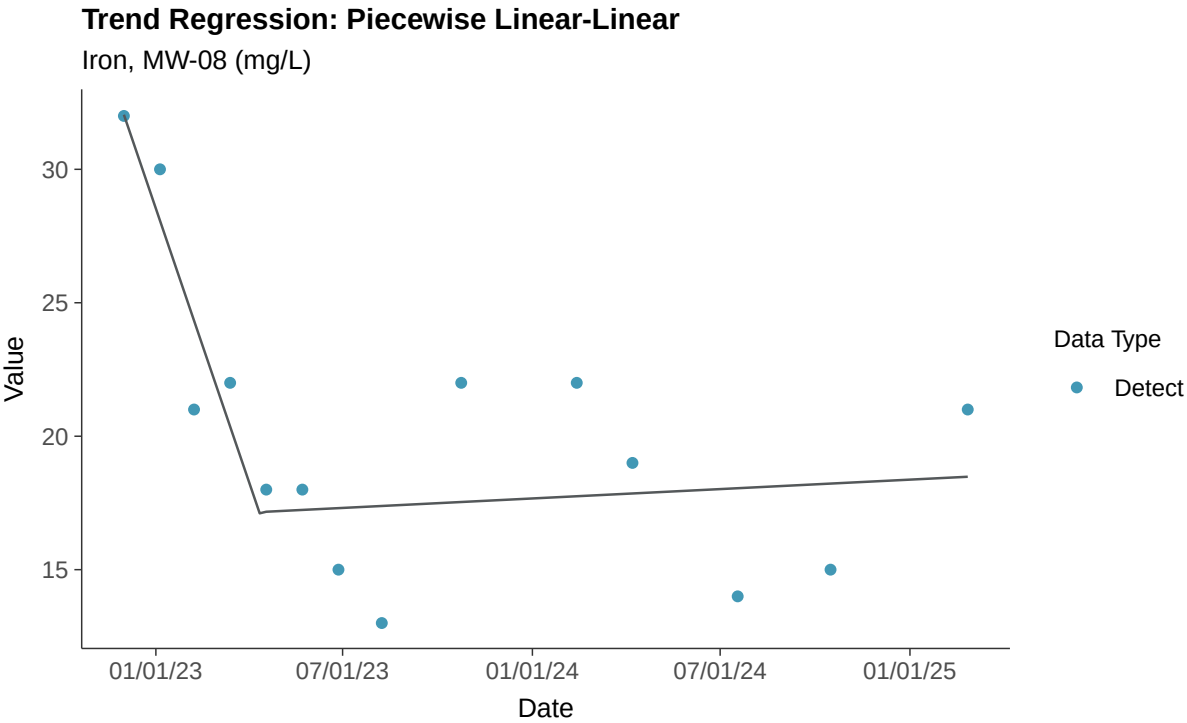
ID: 18_1_5_114







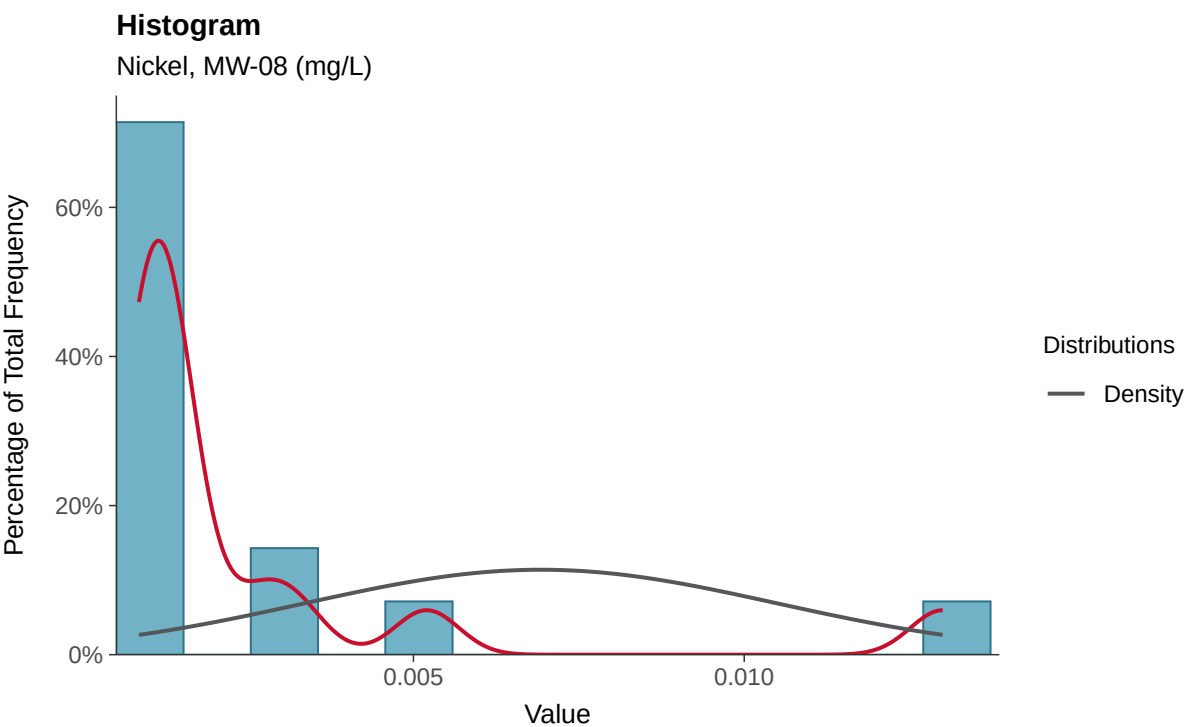
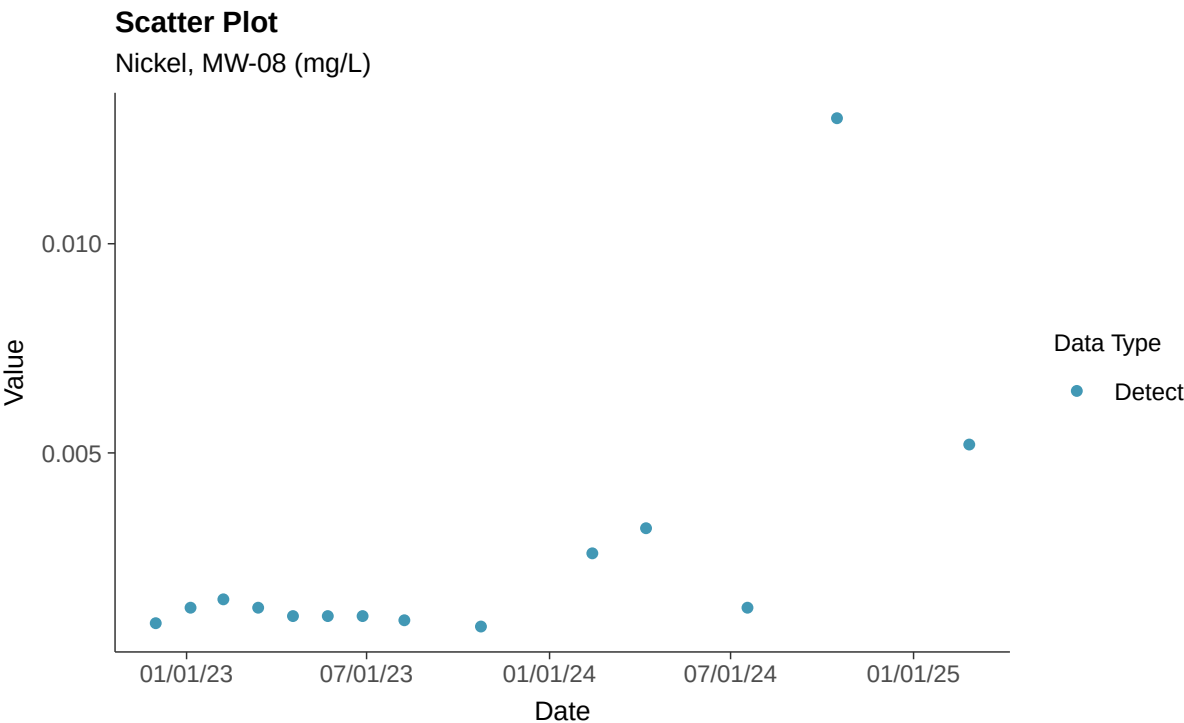


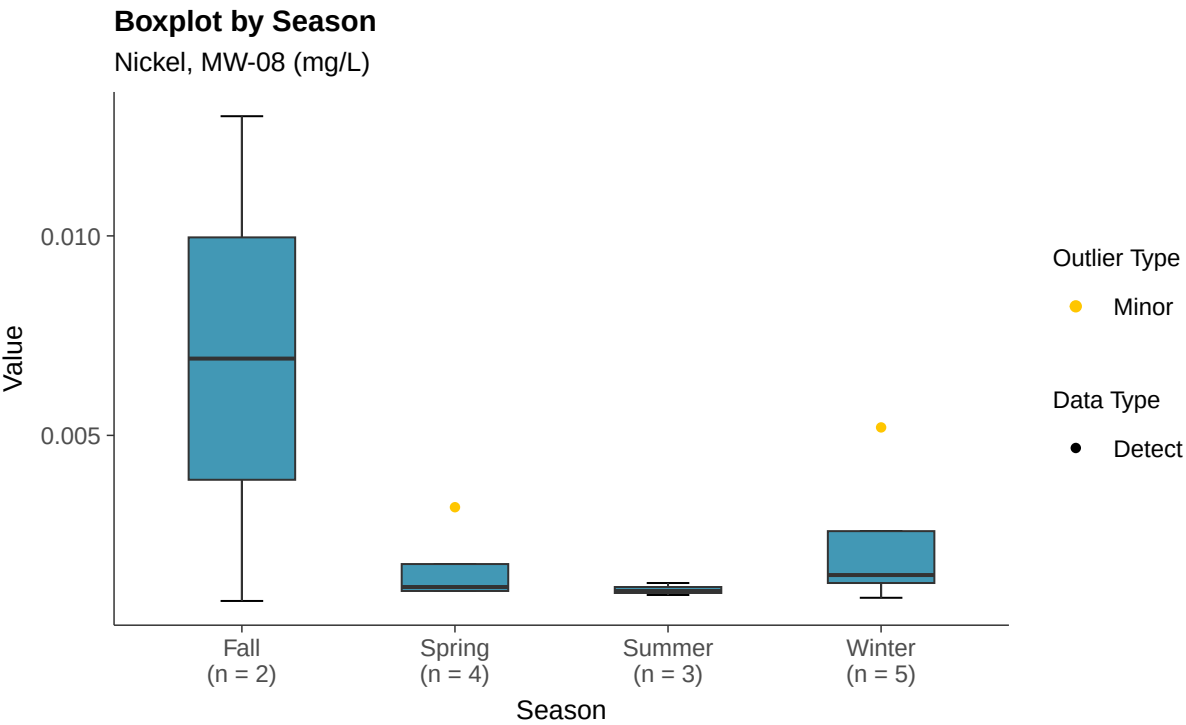
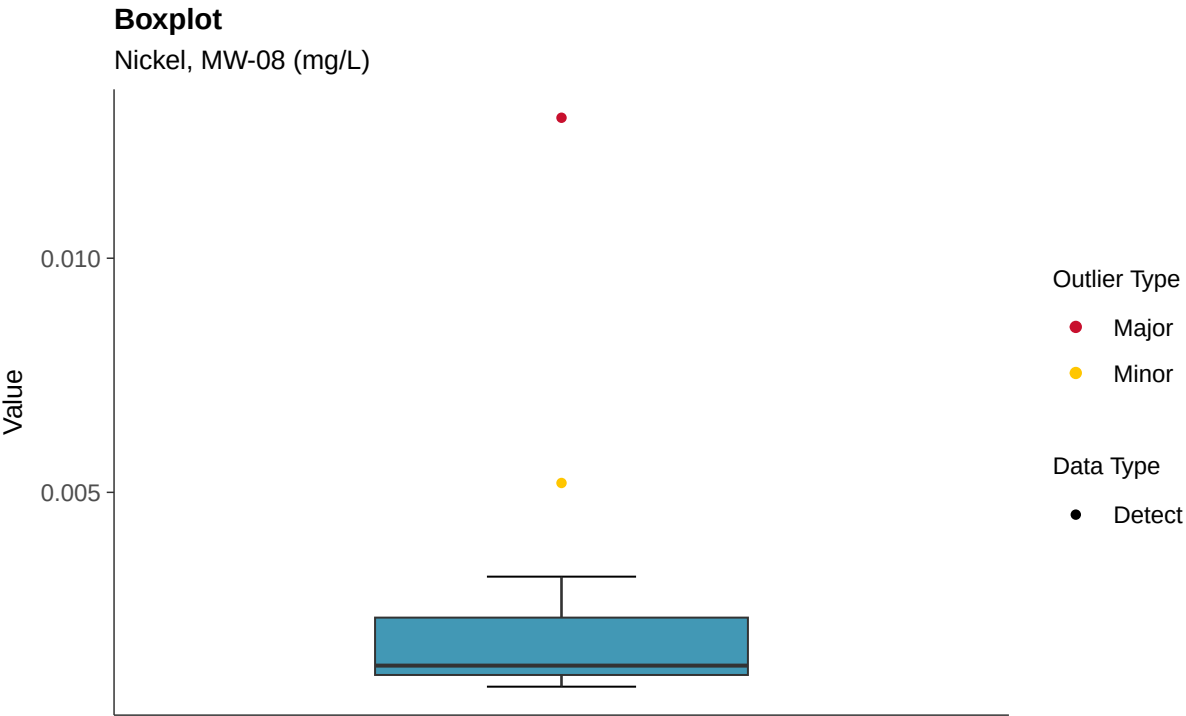


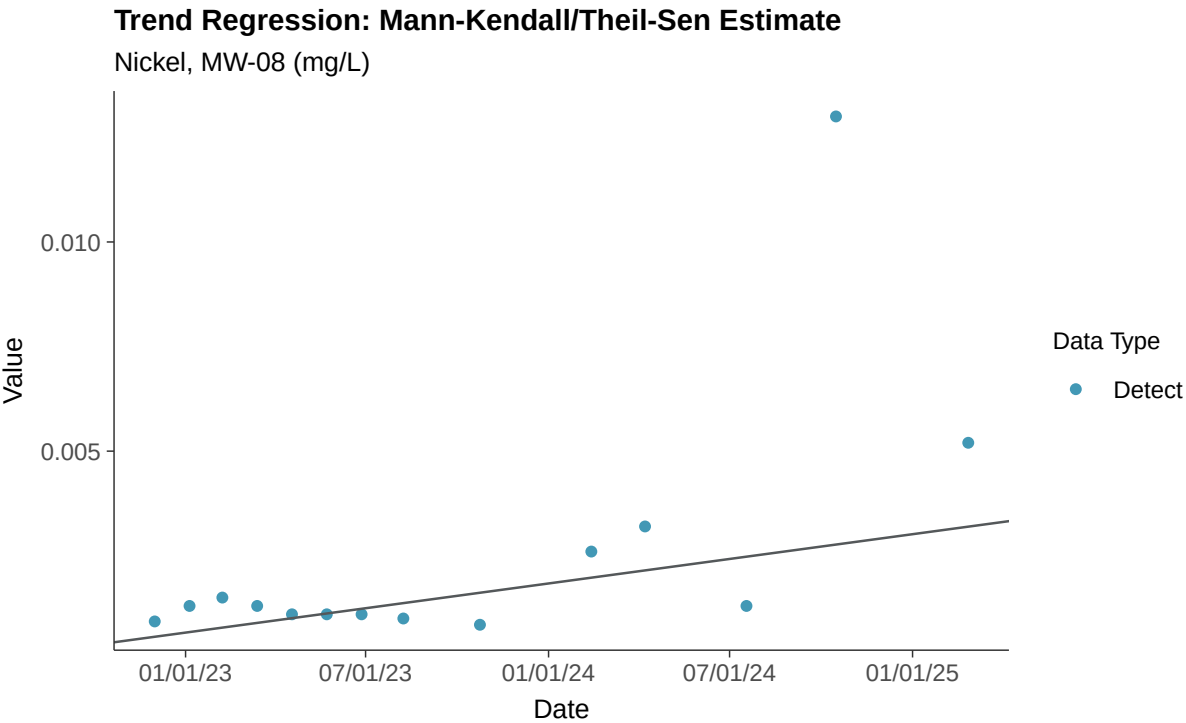
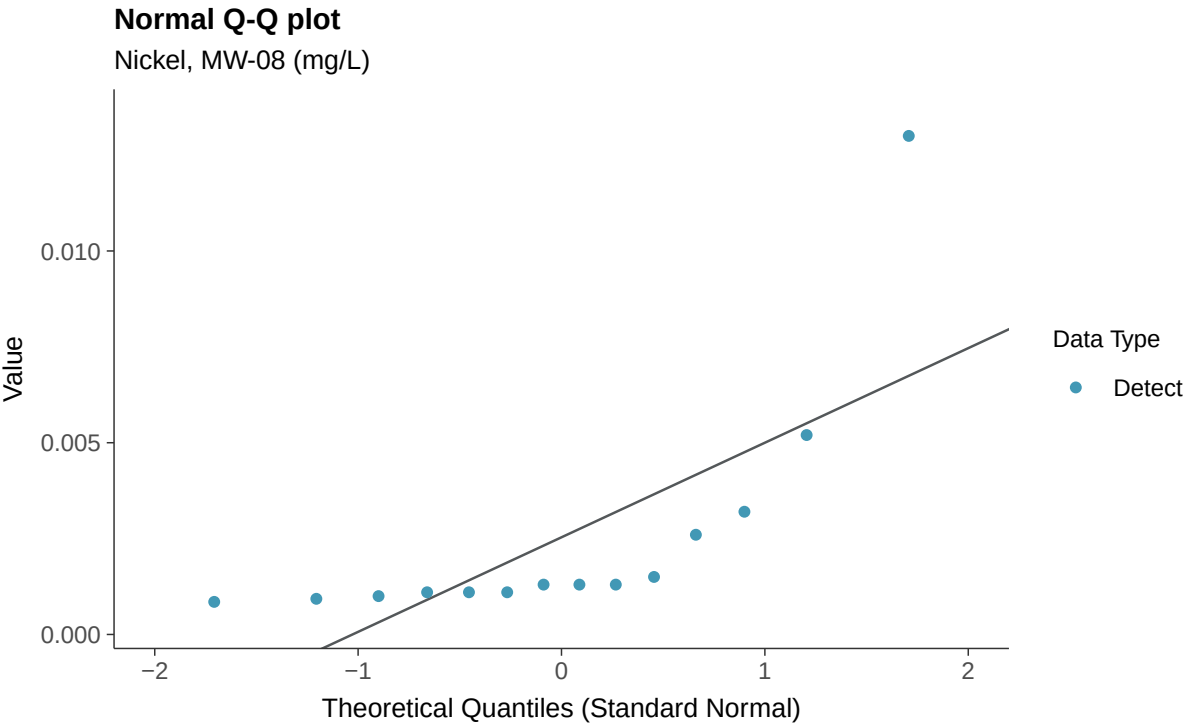


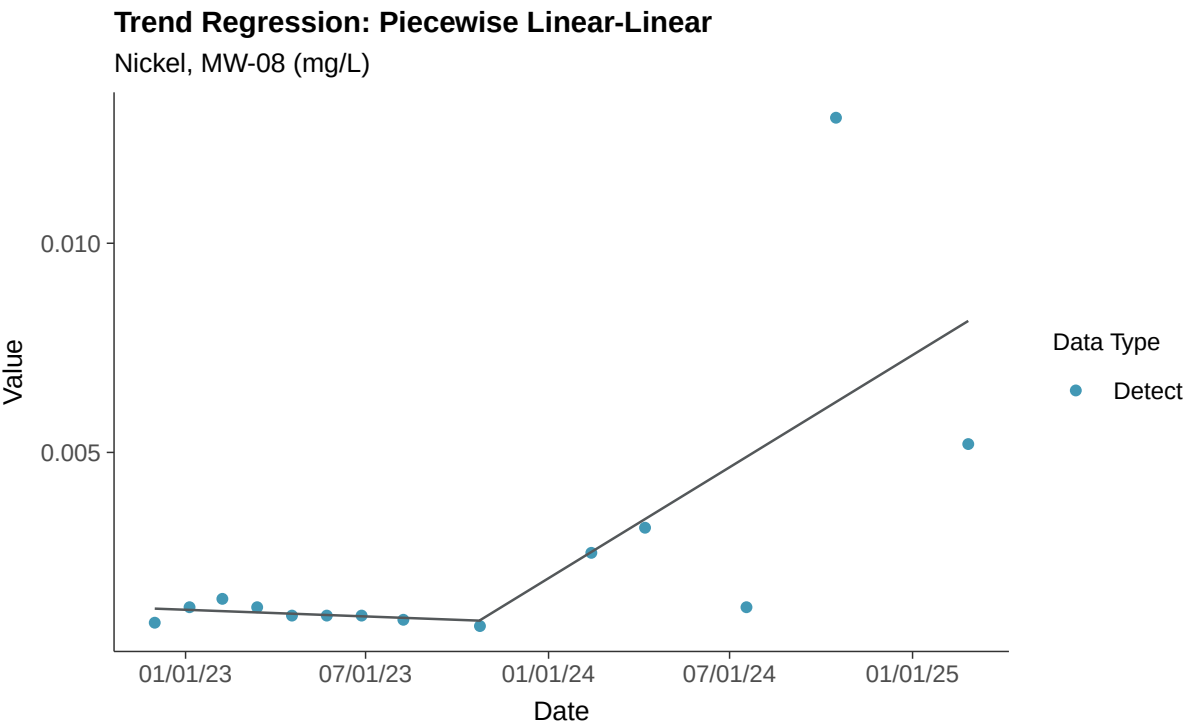
Part 115: Nickel, MW-08

ID: 18_1_5_119





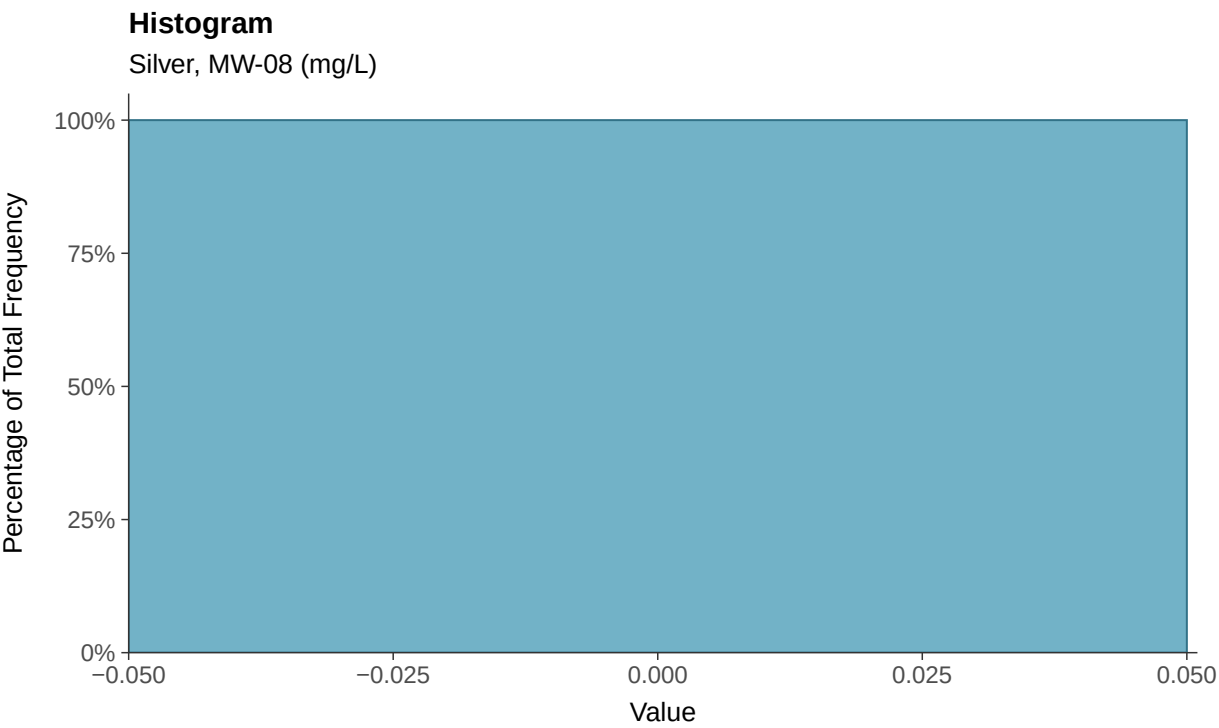
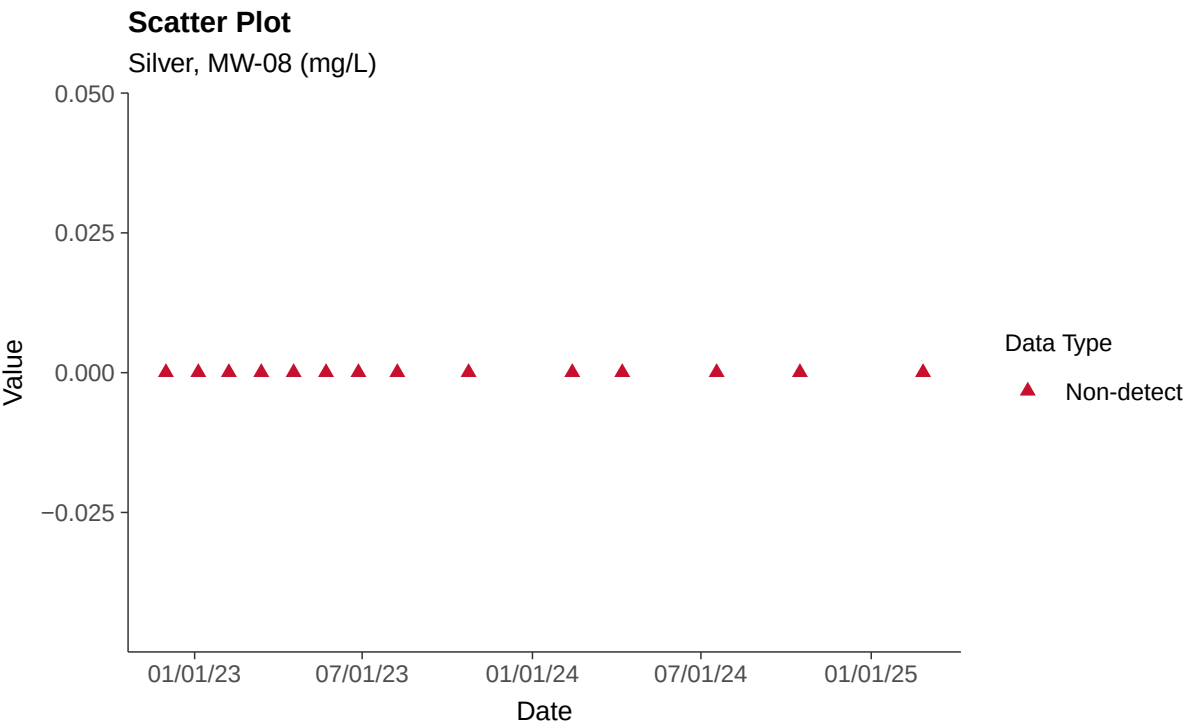


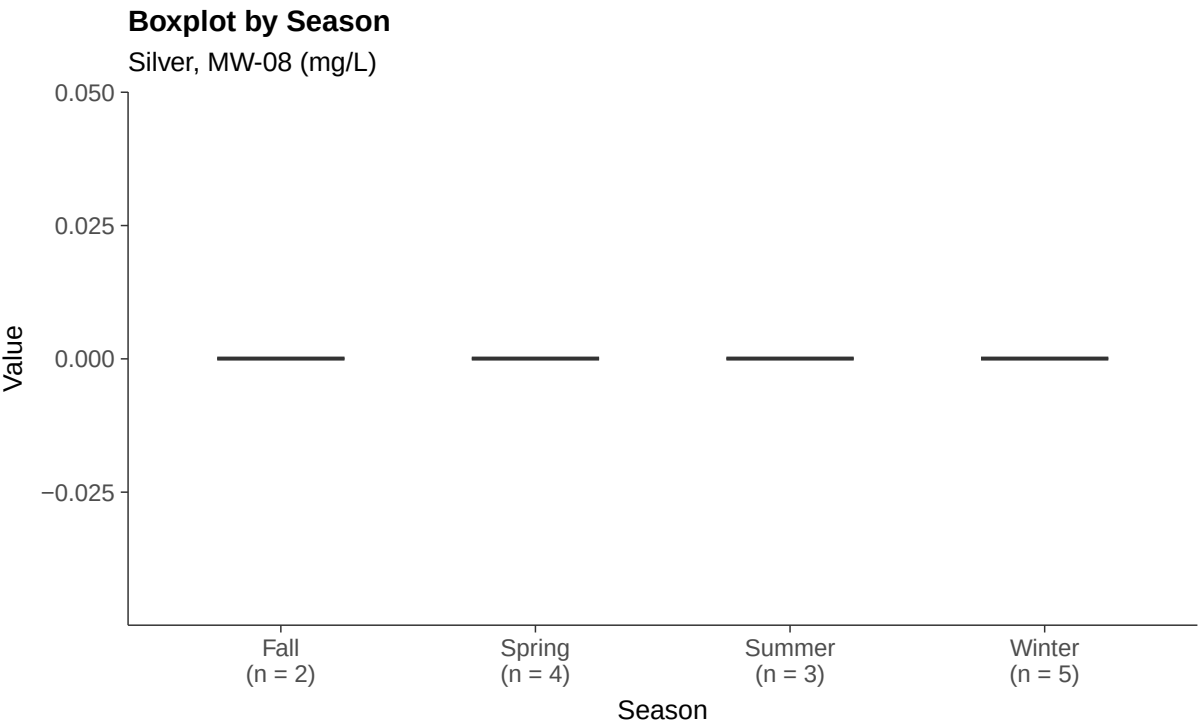
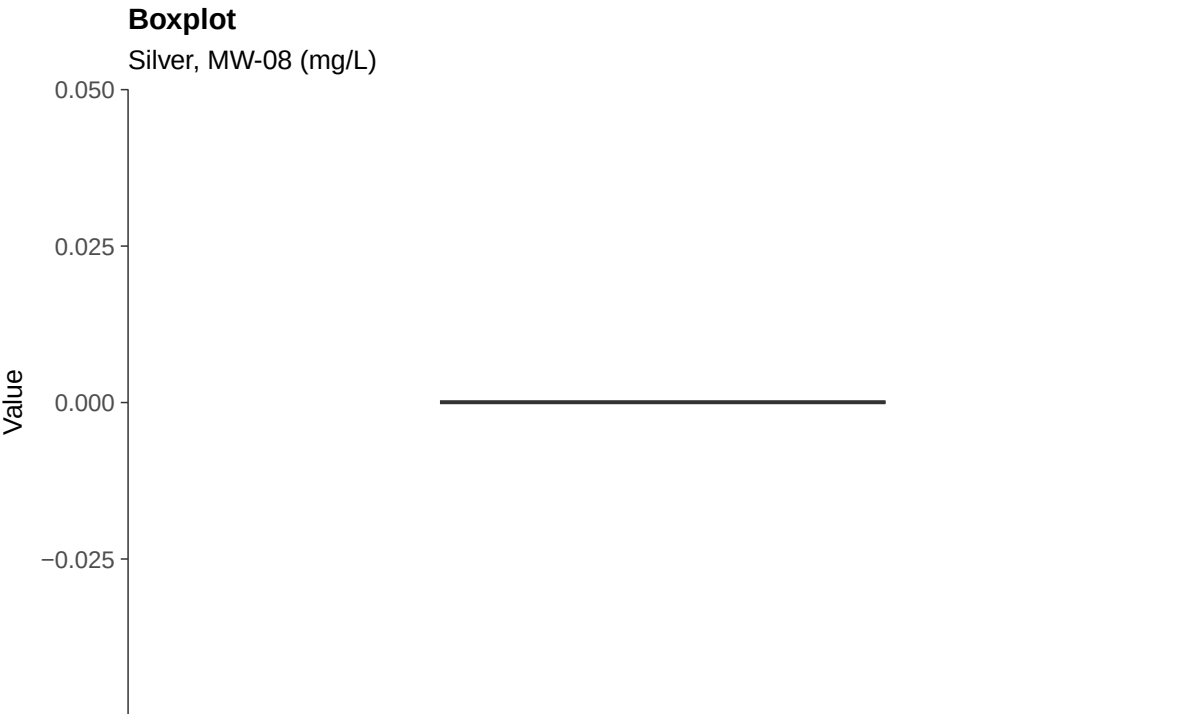




Part 115: Silver, MW-08

ID: 18_1_5_123

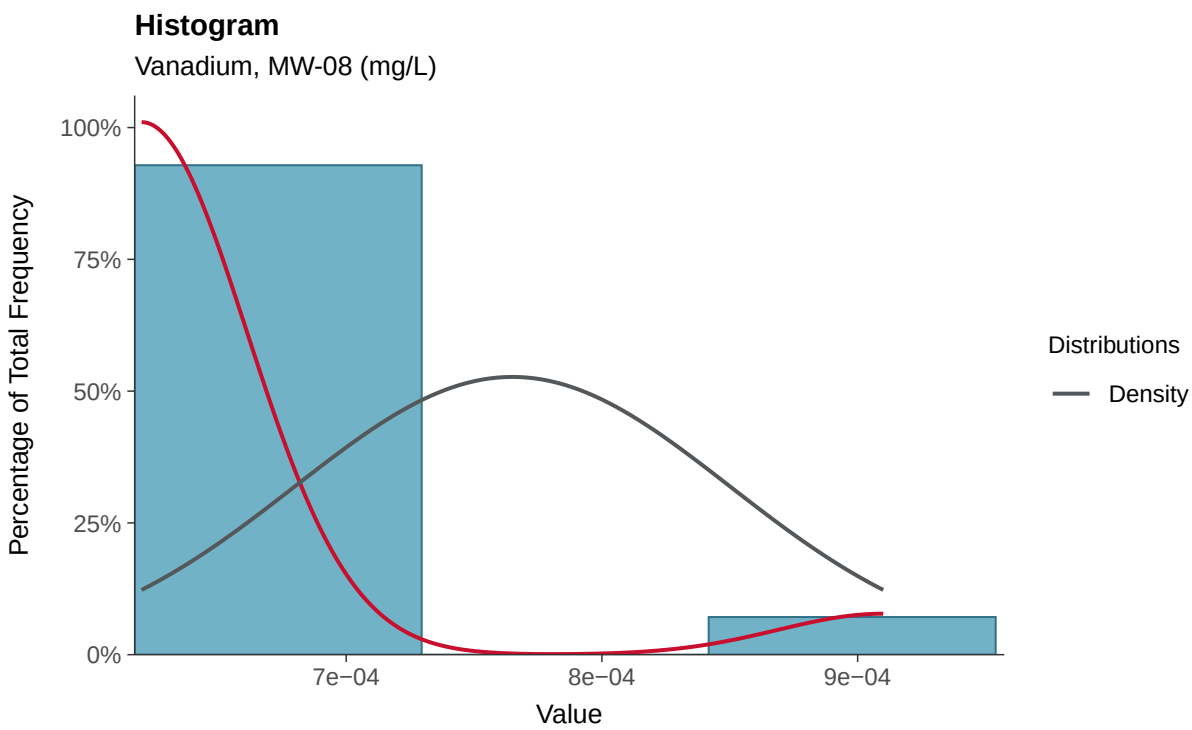
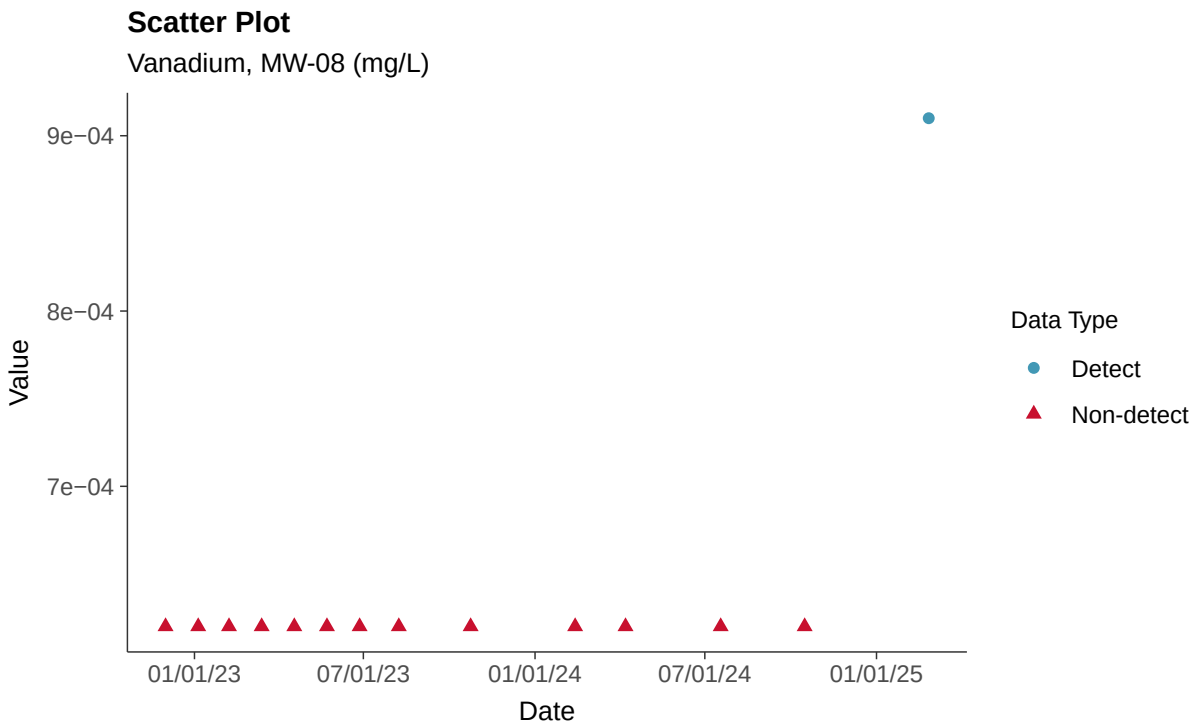


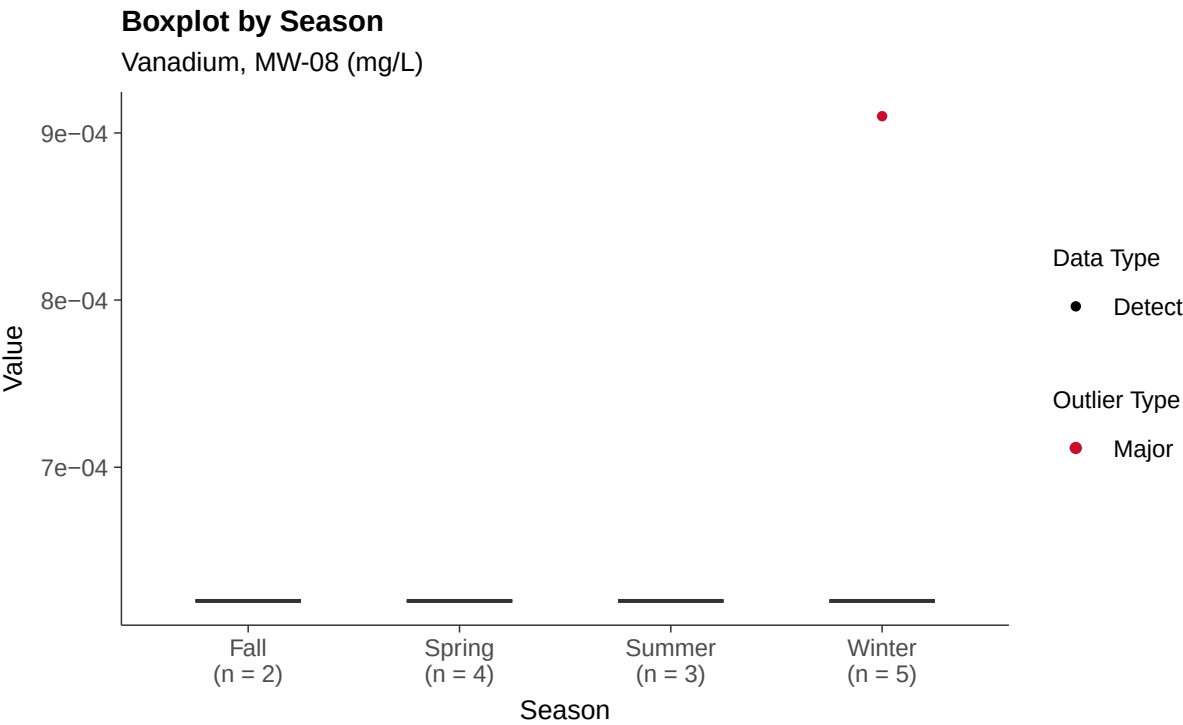
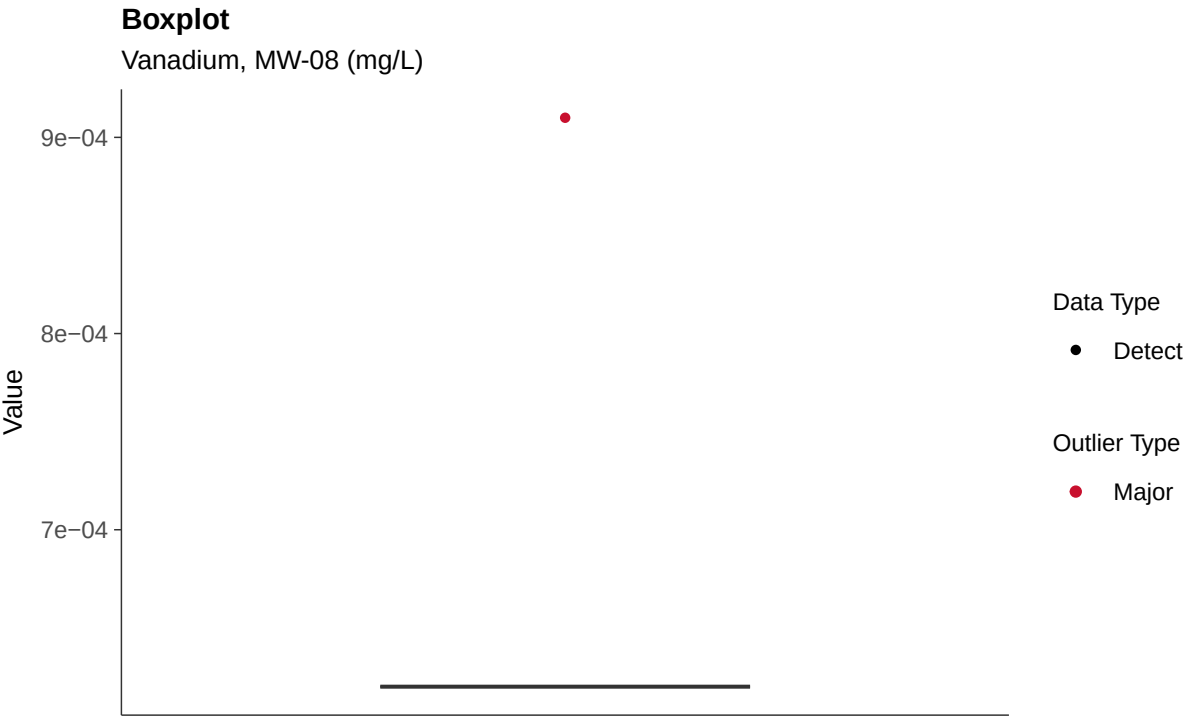




Part 115: Vanadium, MW-08

ID: 18_1_5_128

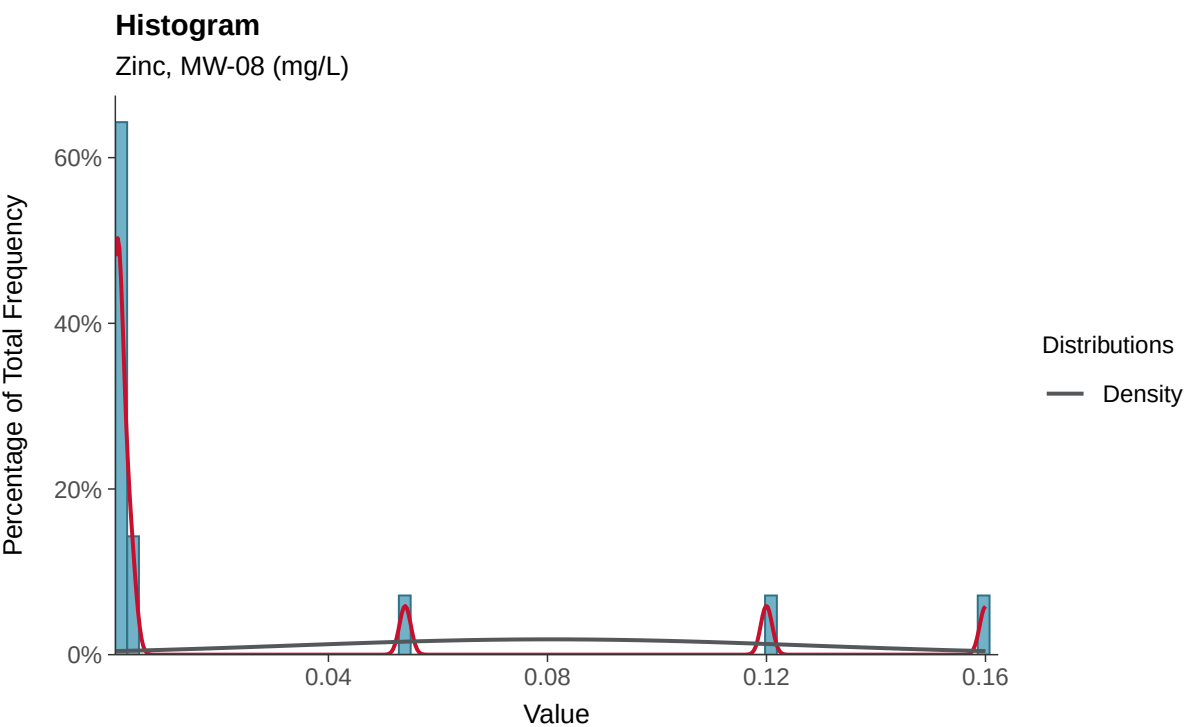
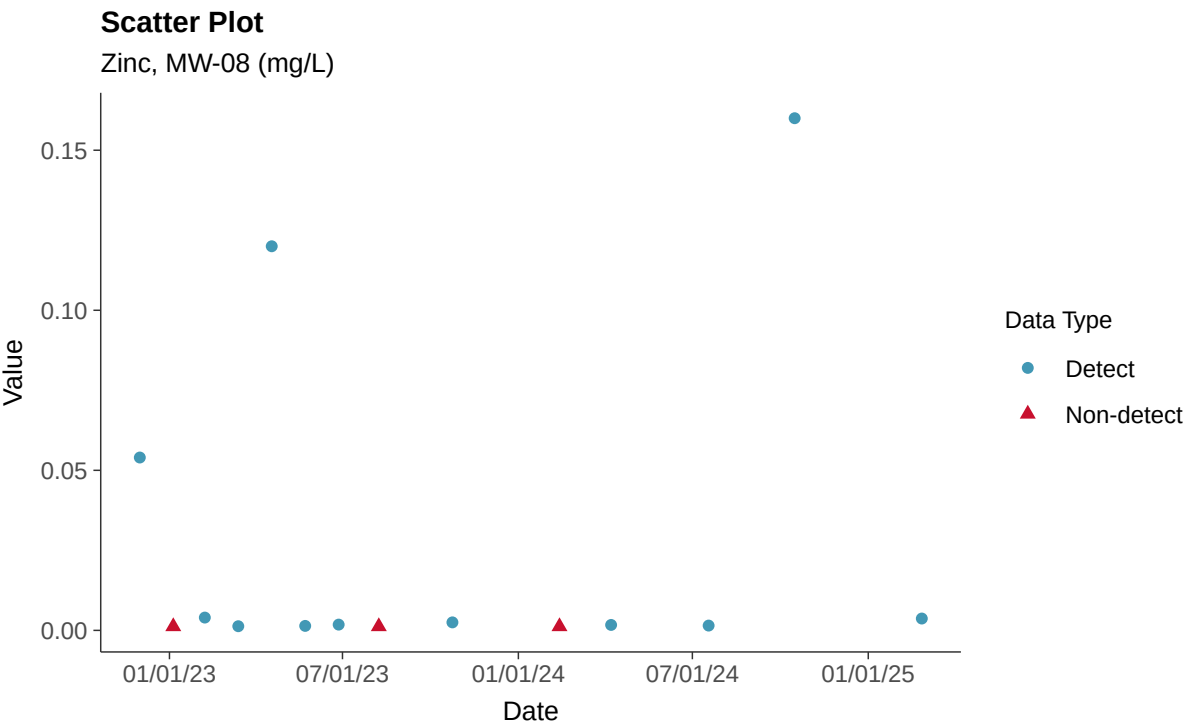


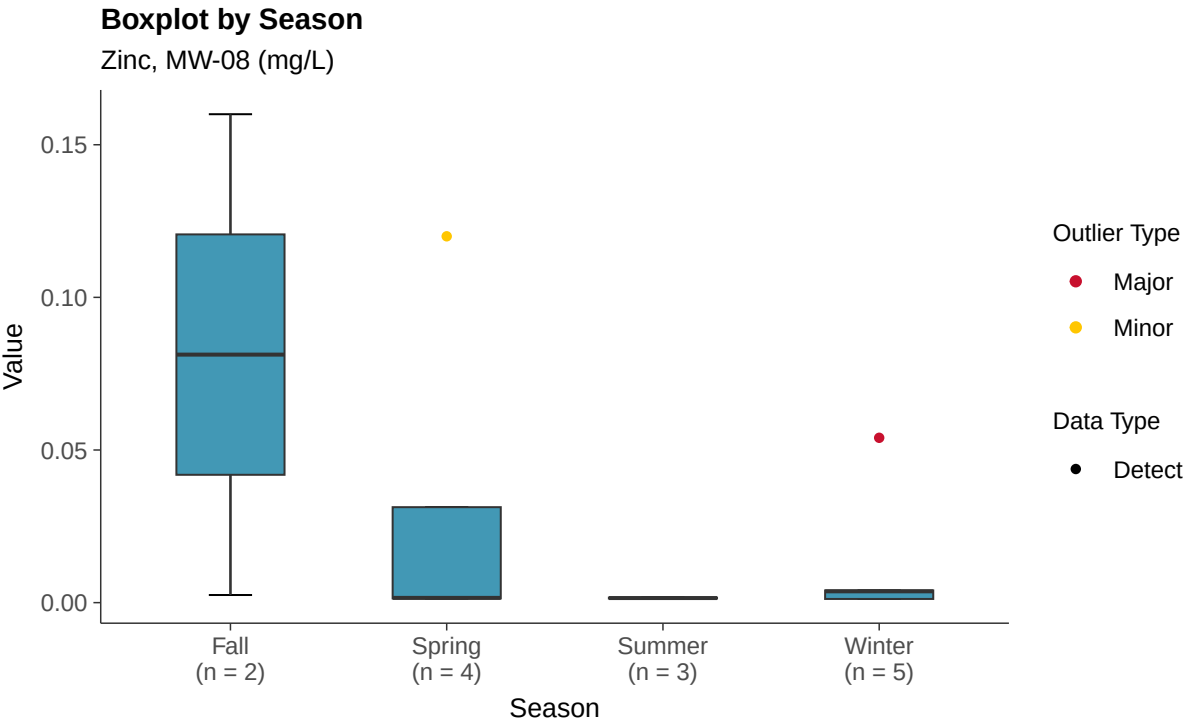
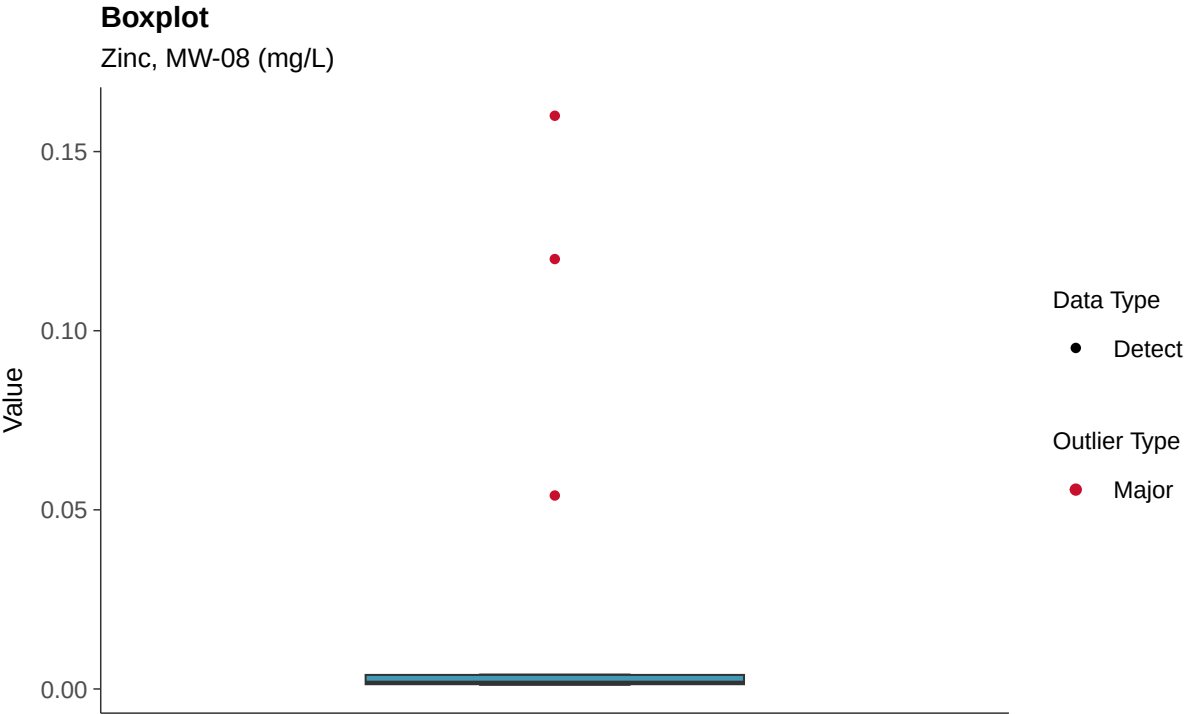




Part 115: Zinc, MW-08

ID: 18_1_5_129

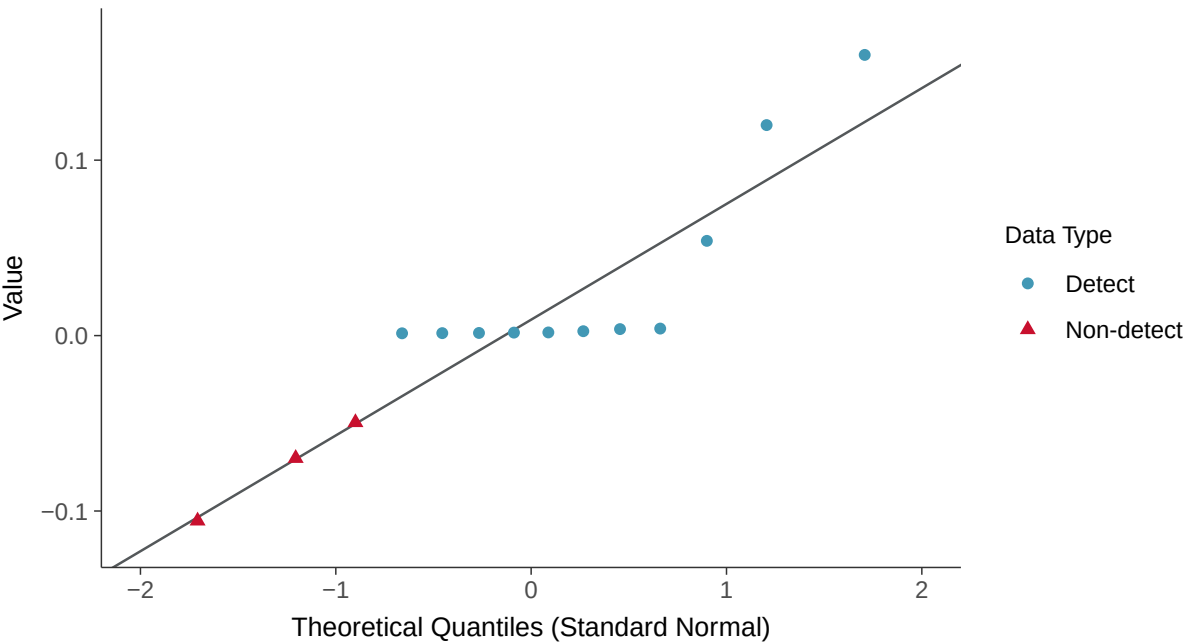






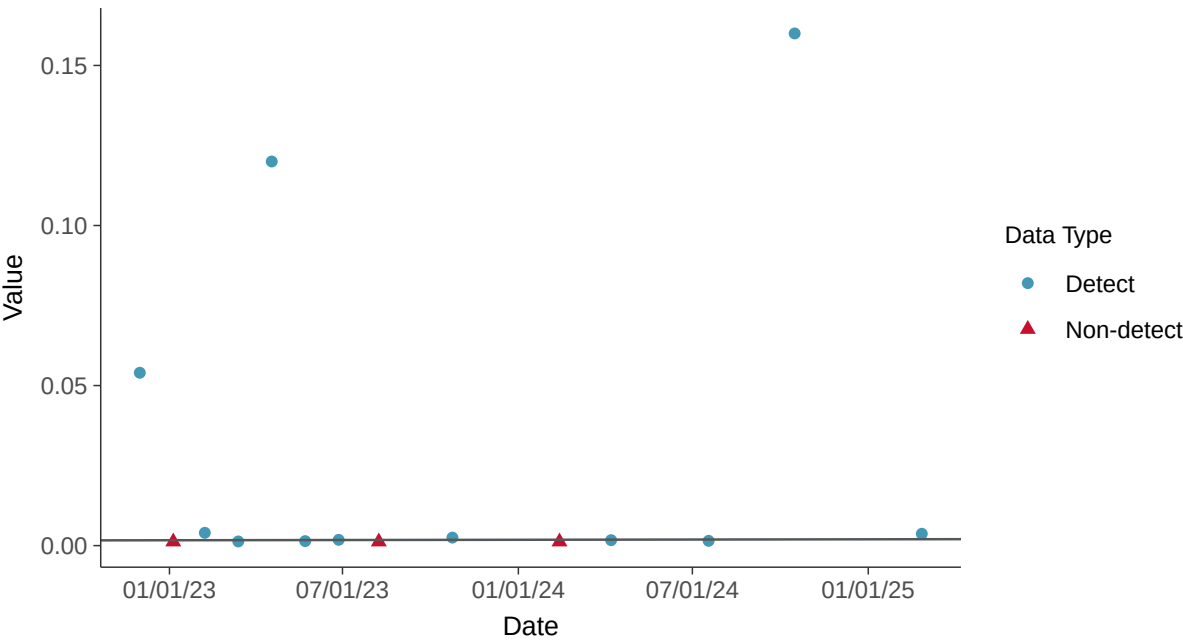
Normal Q-Q plot using ROS Imputed Estimates

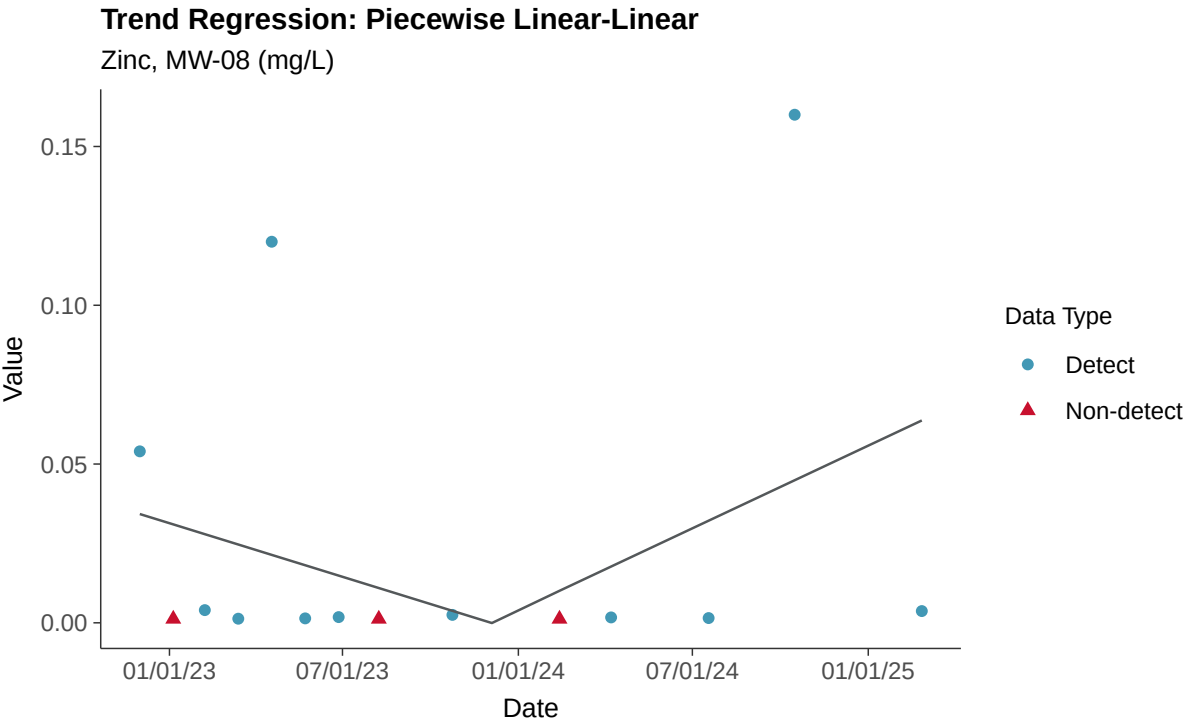
Zinc, MW-08 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-08 (mg/L)

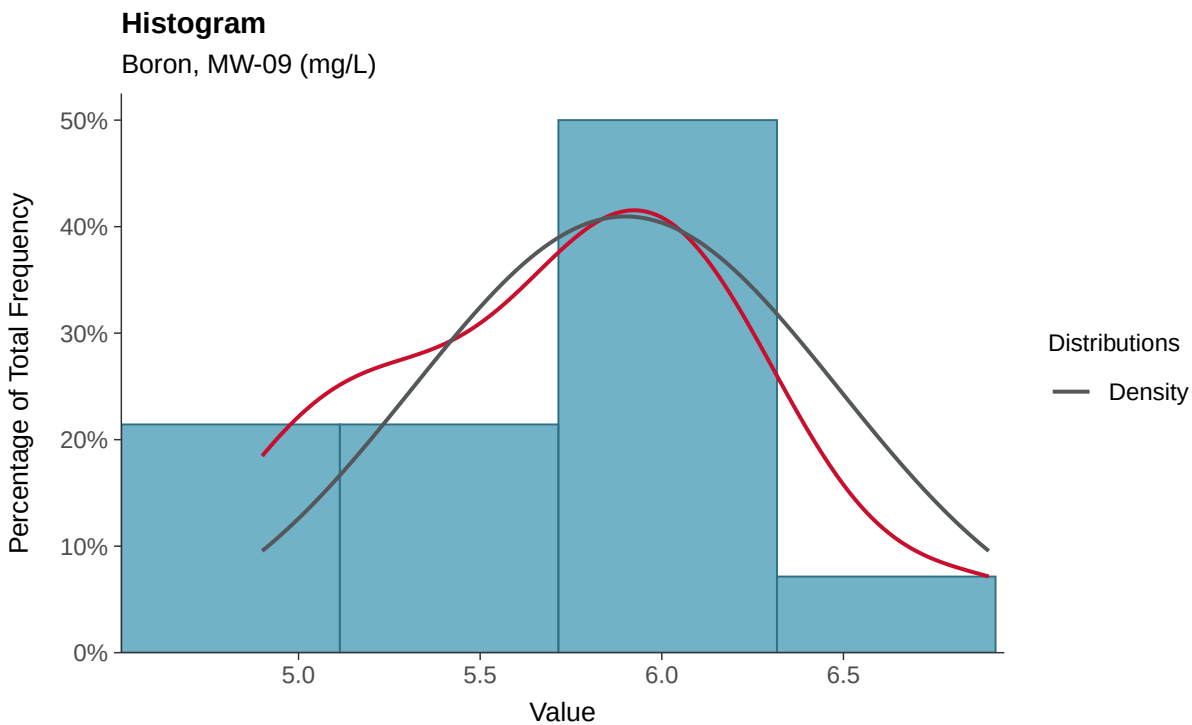
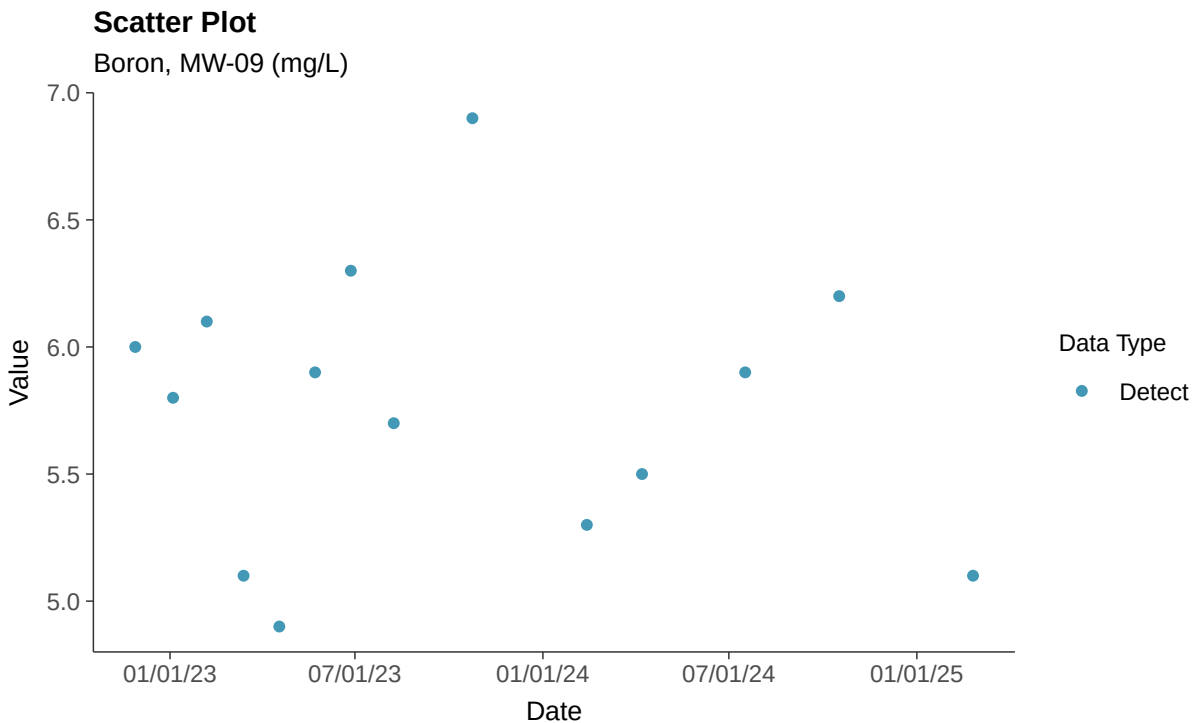


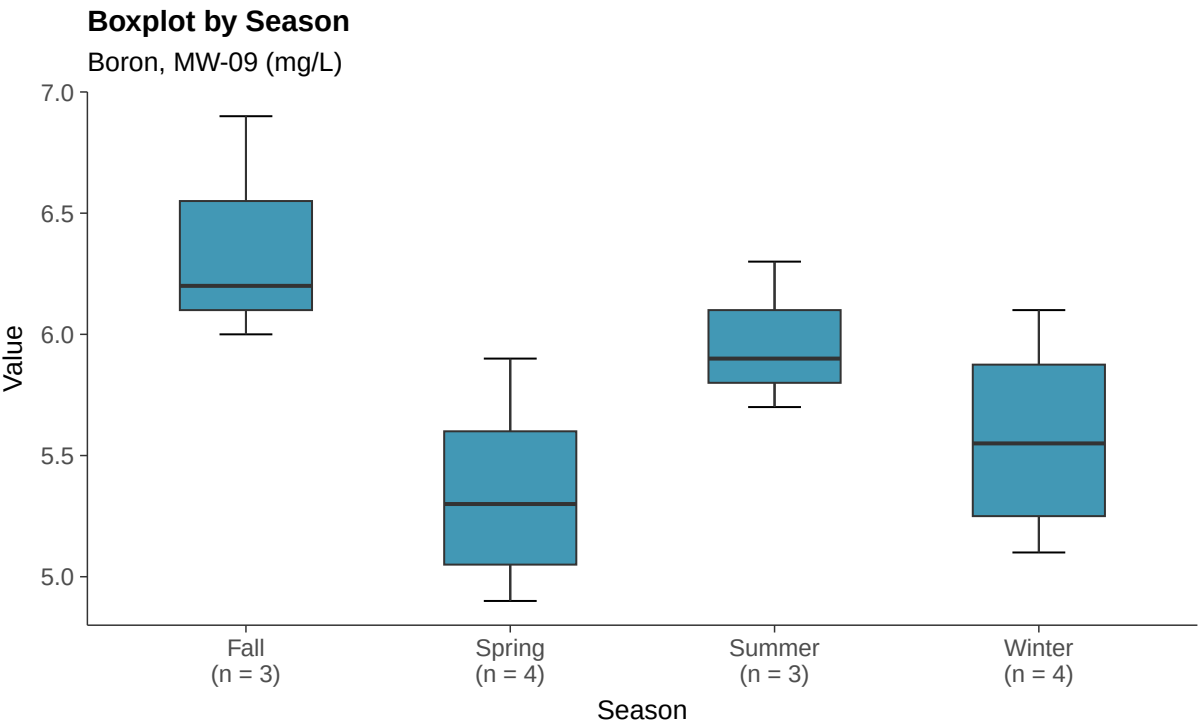
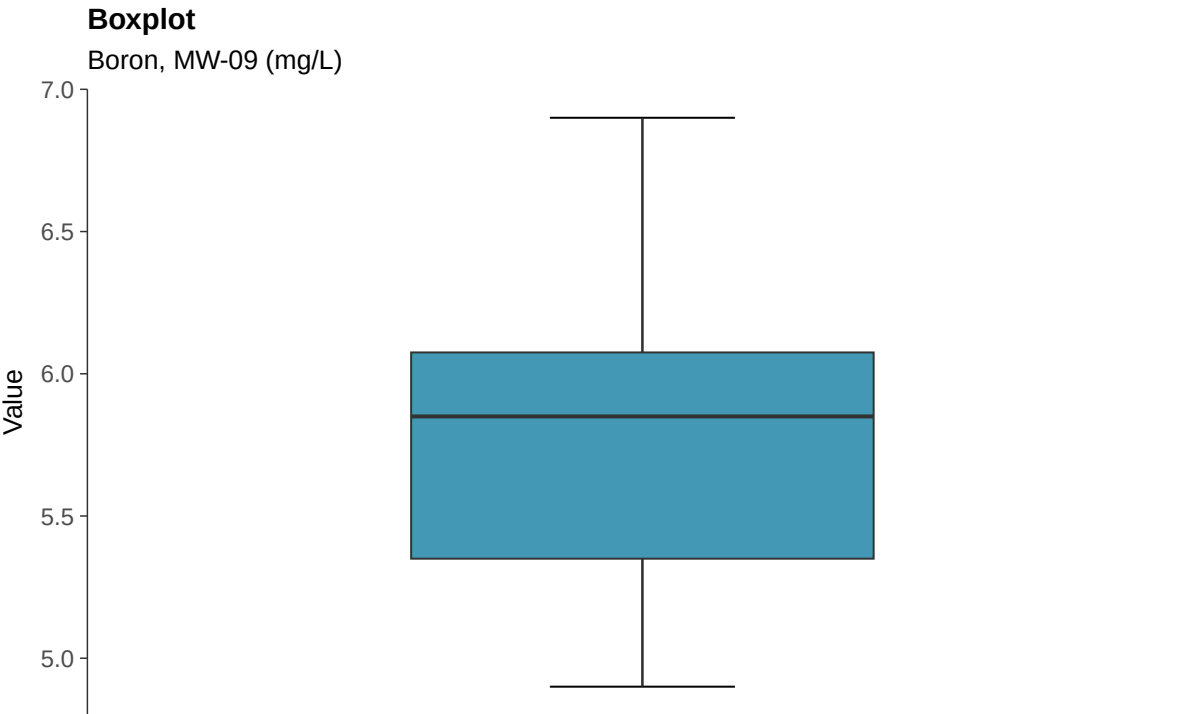


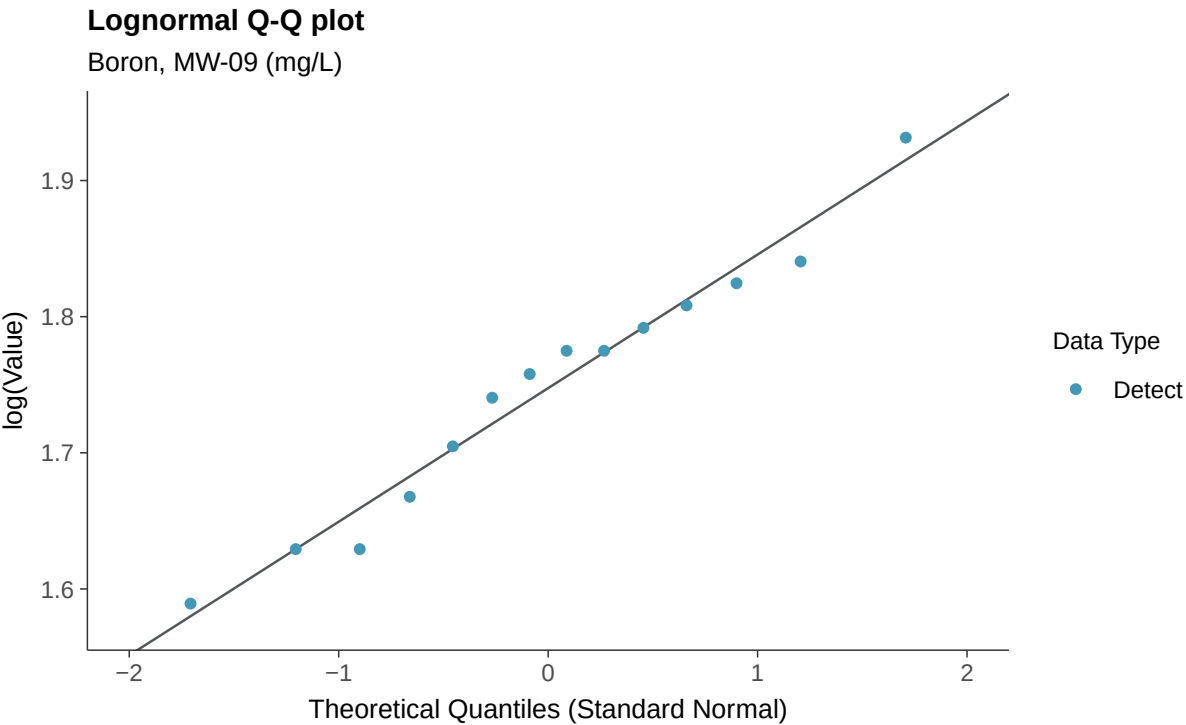
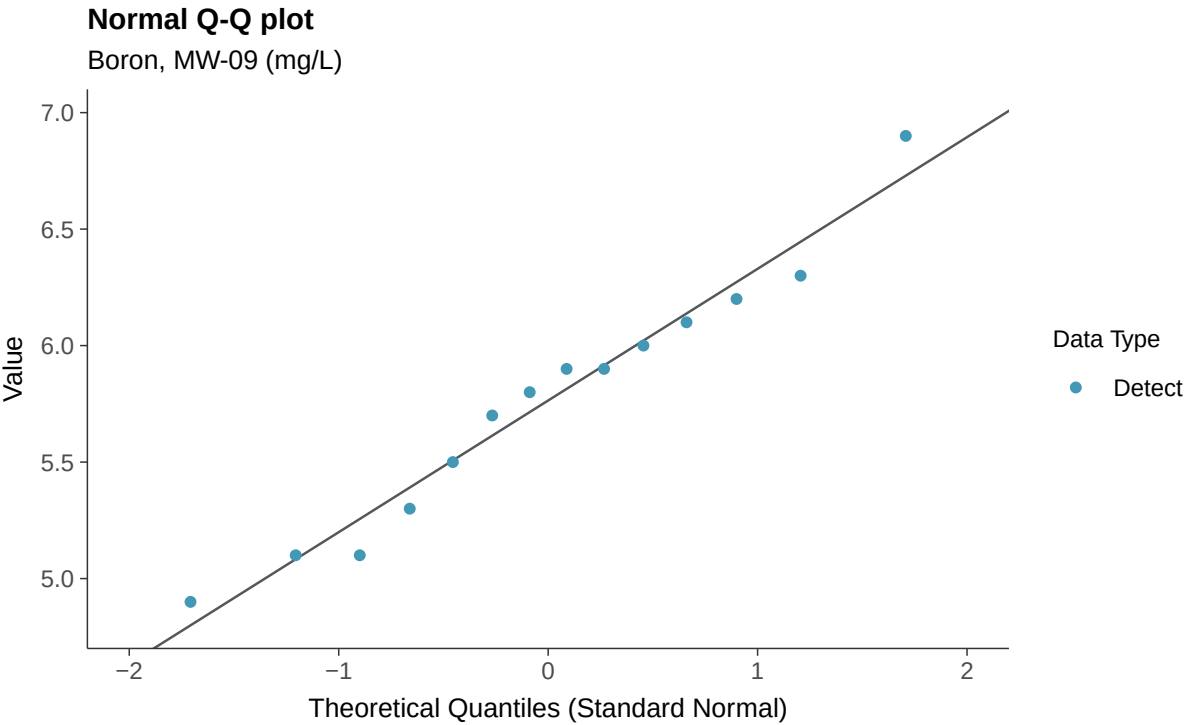


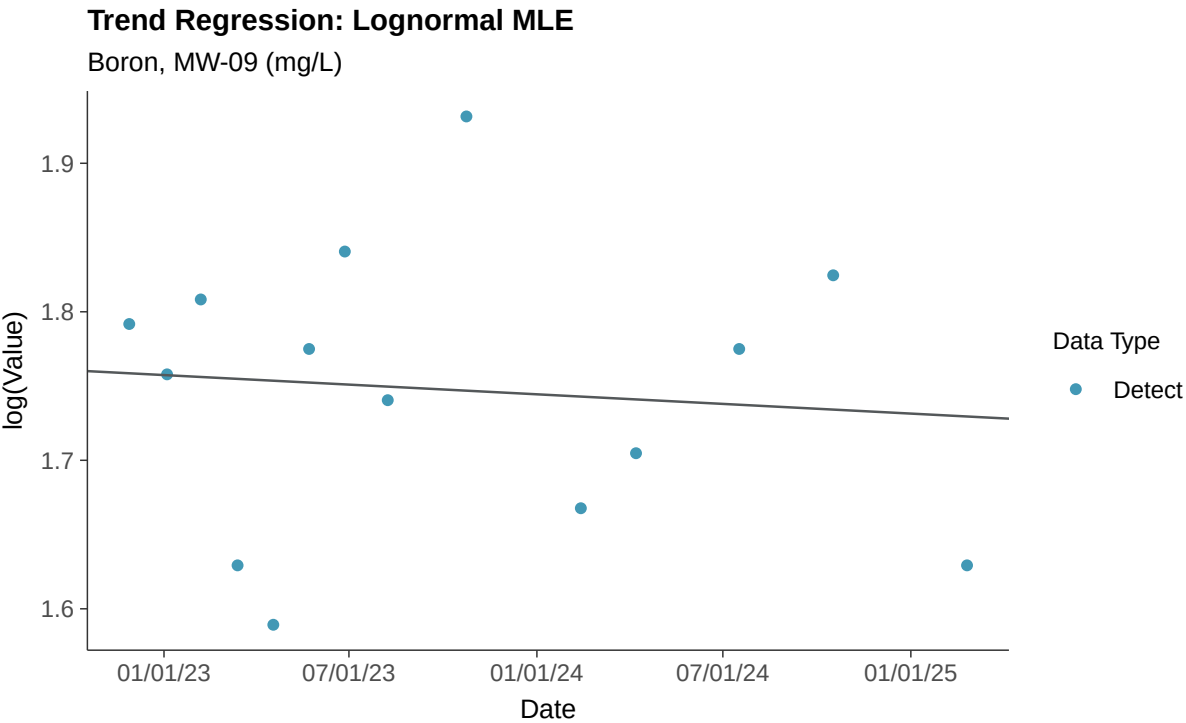
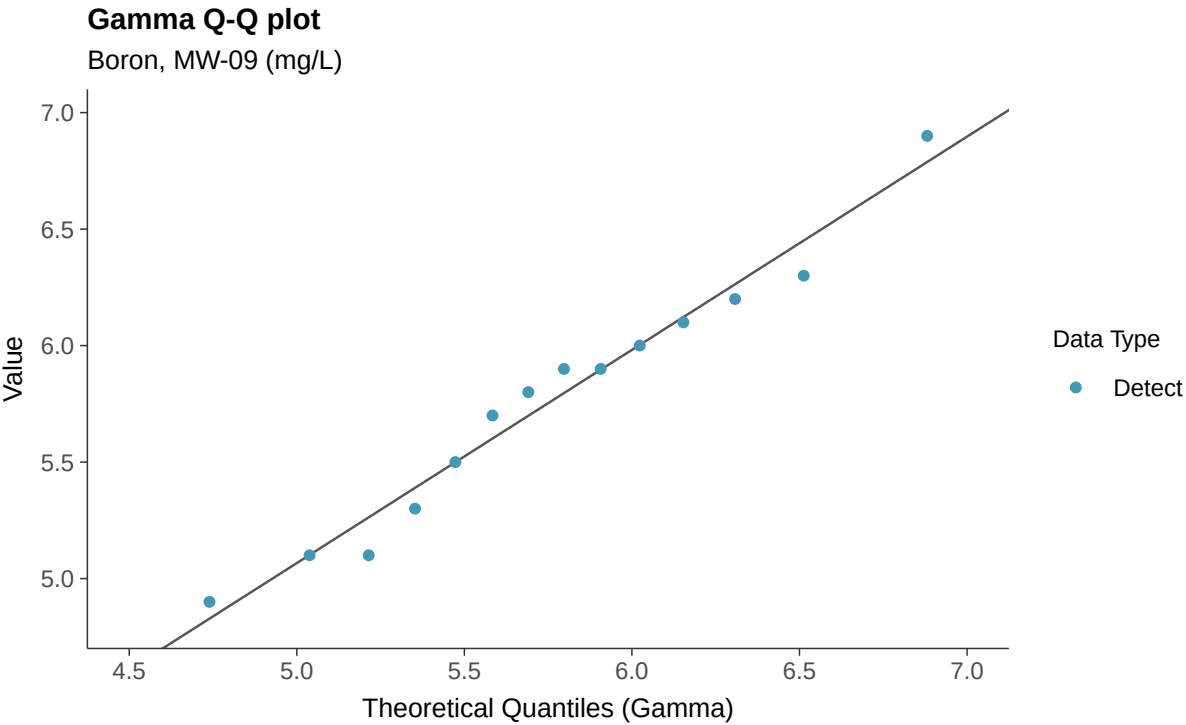
Appendix III: Boron, MW-09

ID: 19_2_3_105





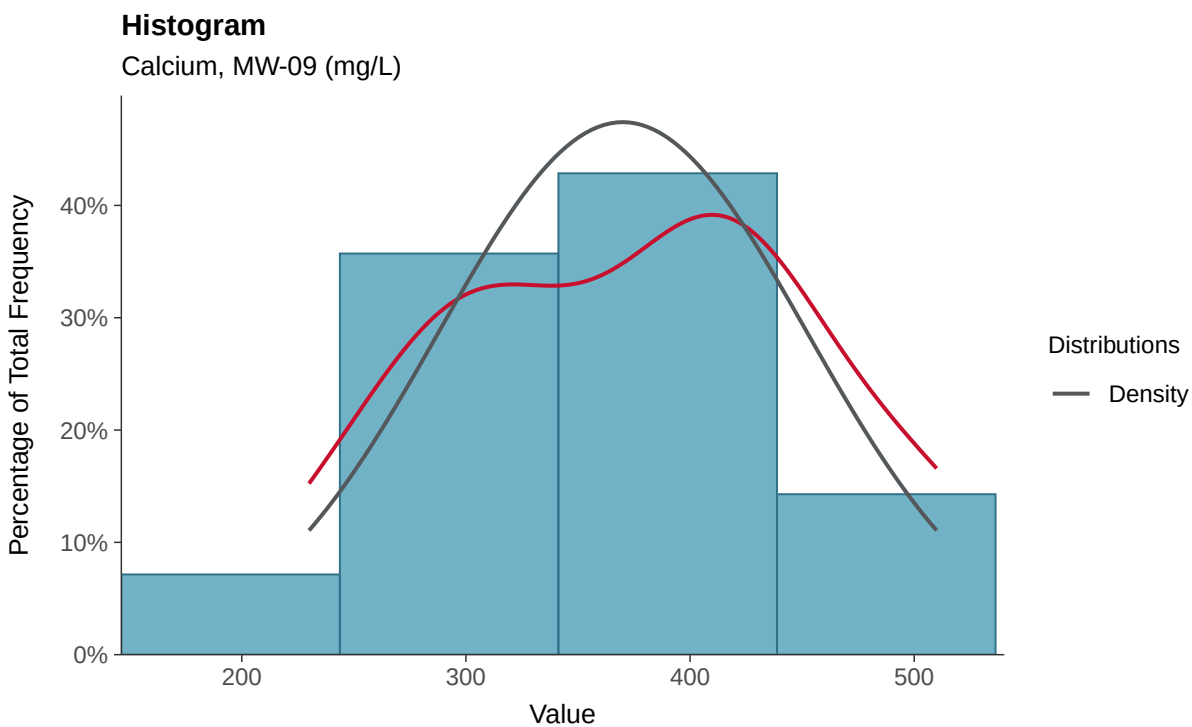
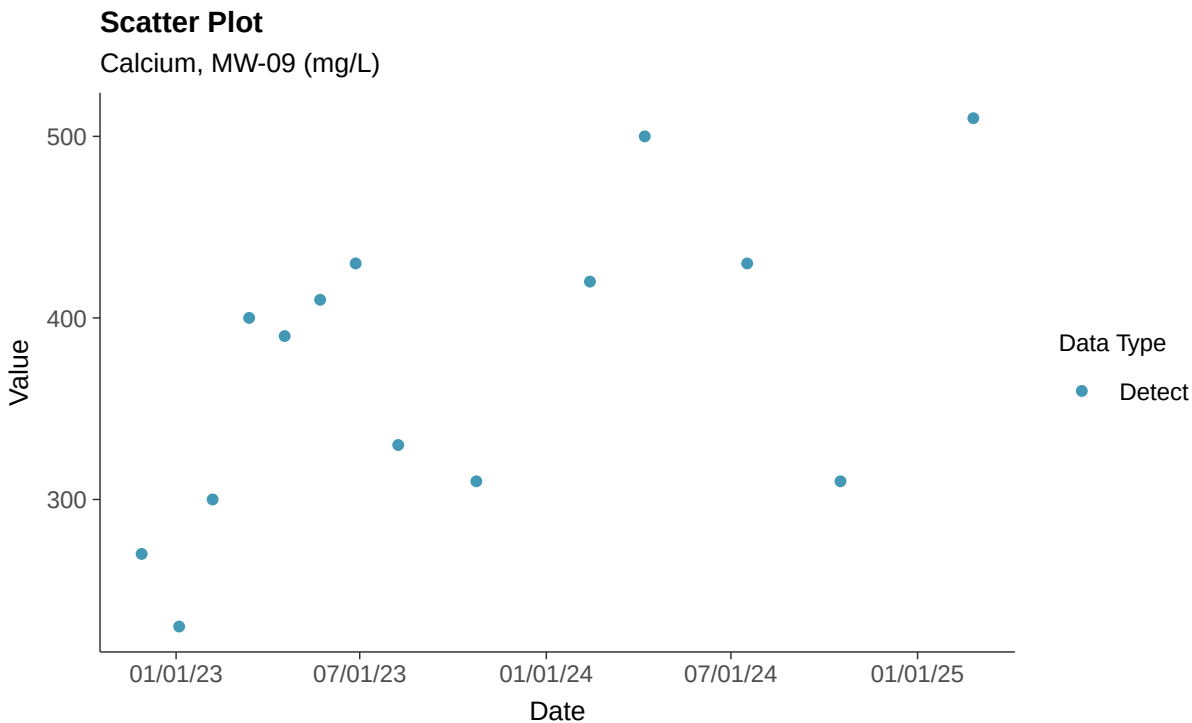


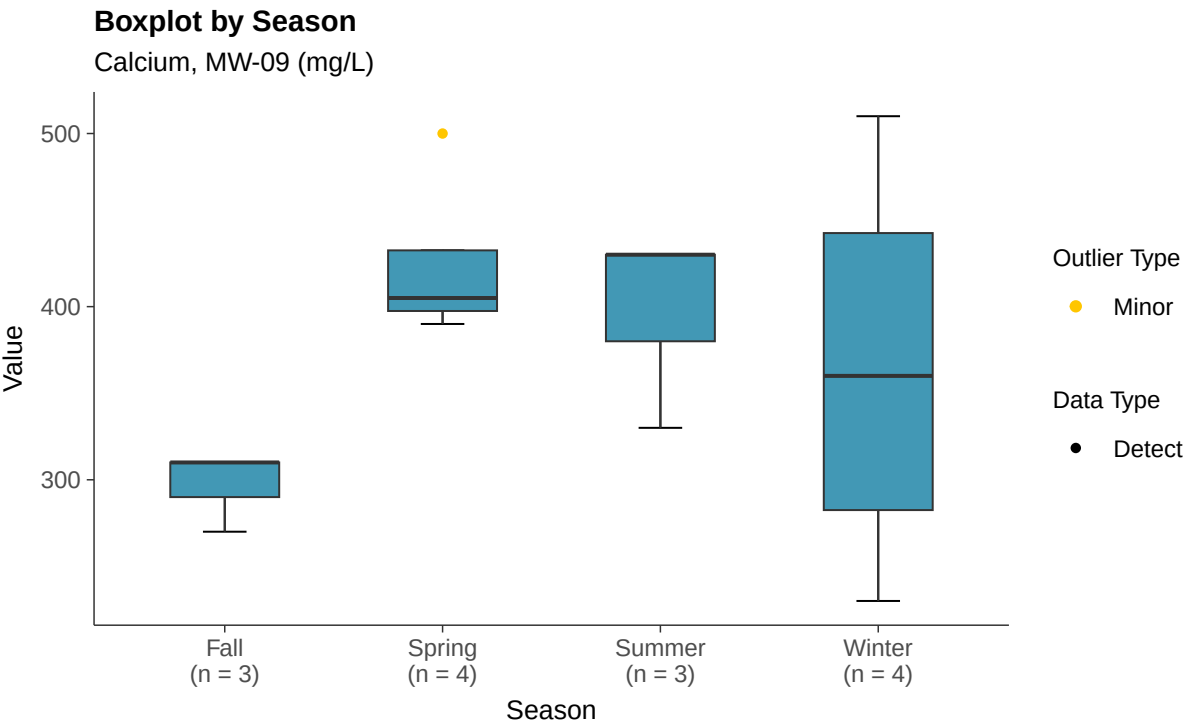
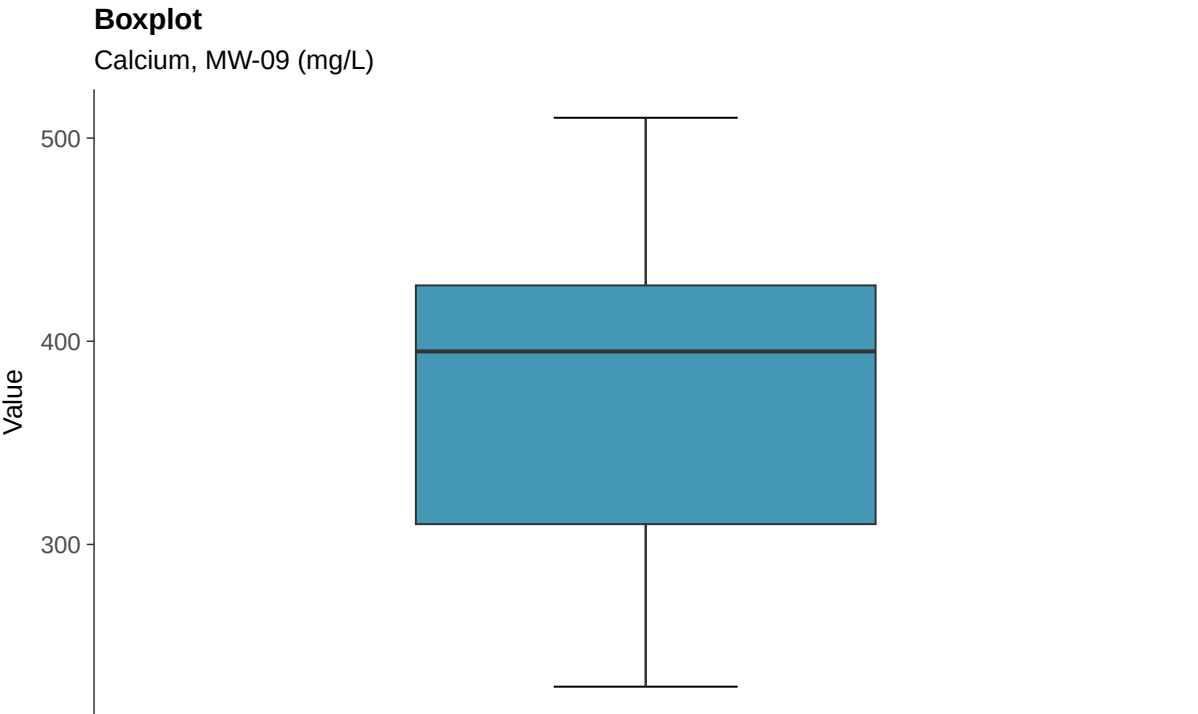


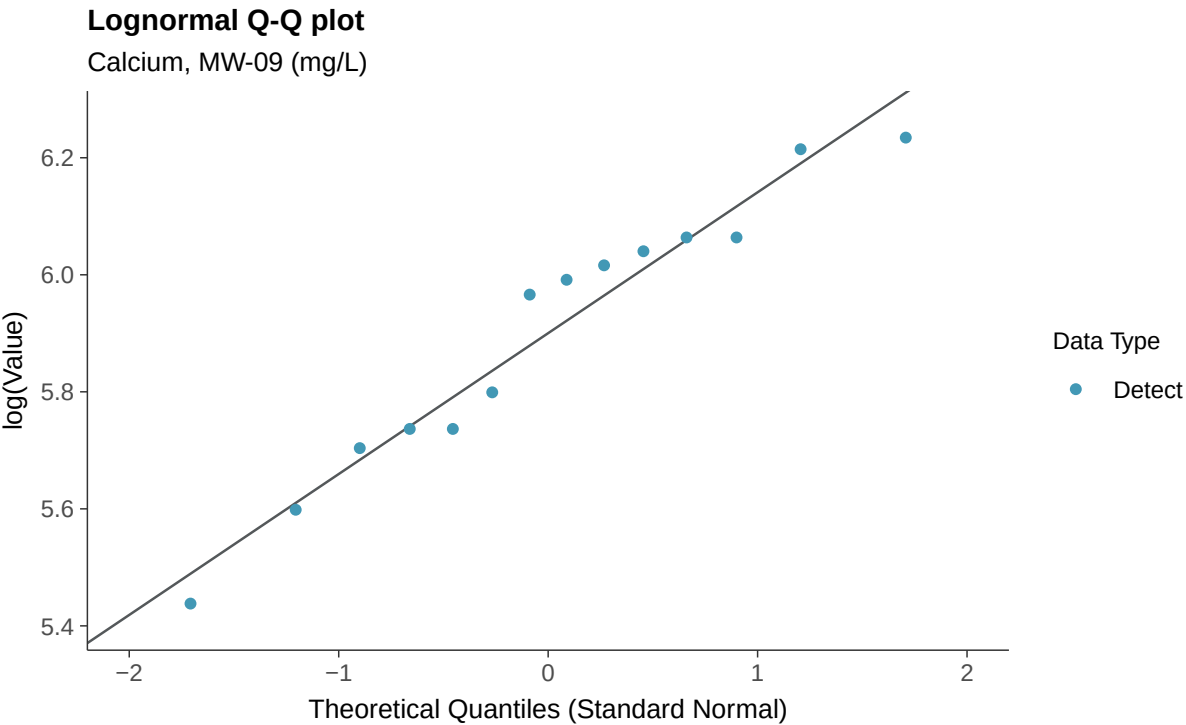
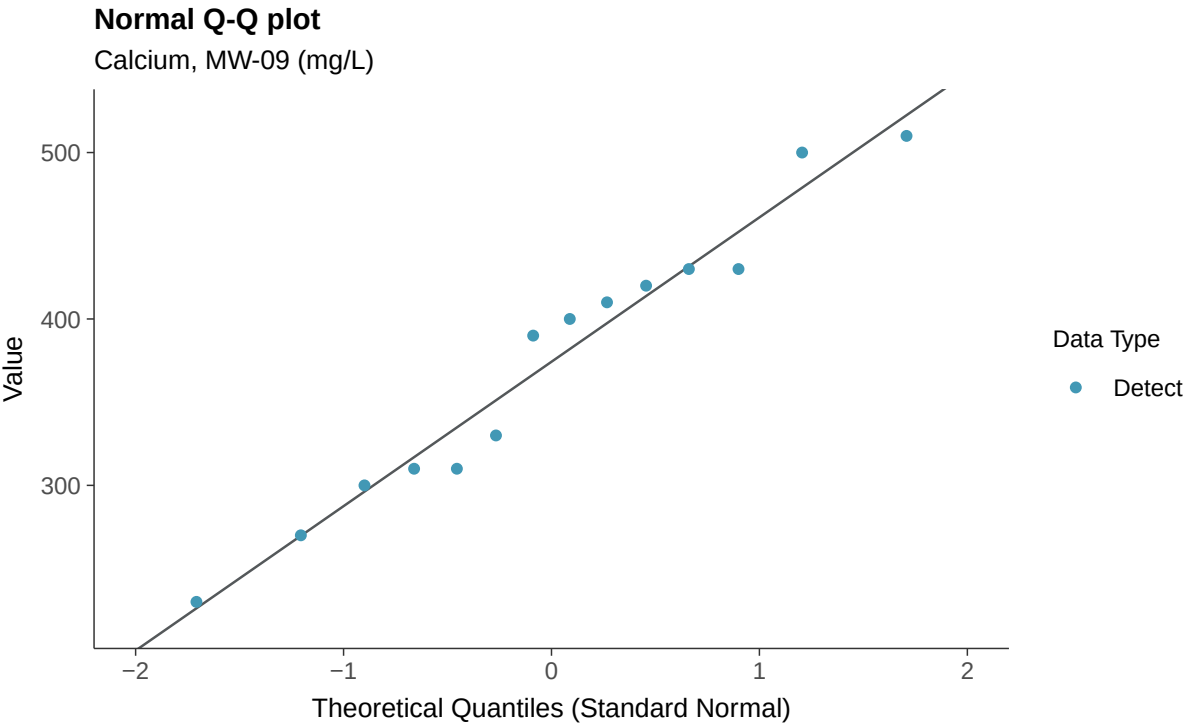


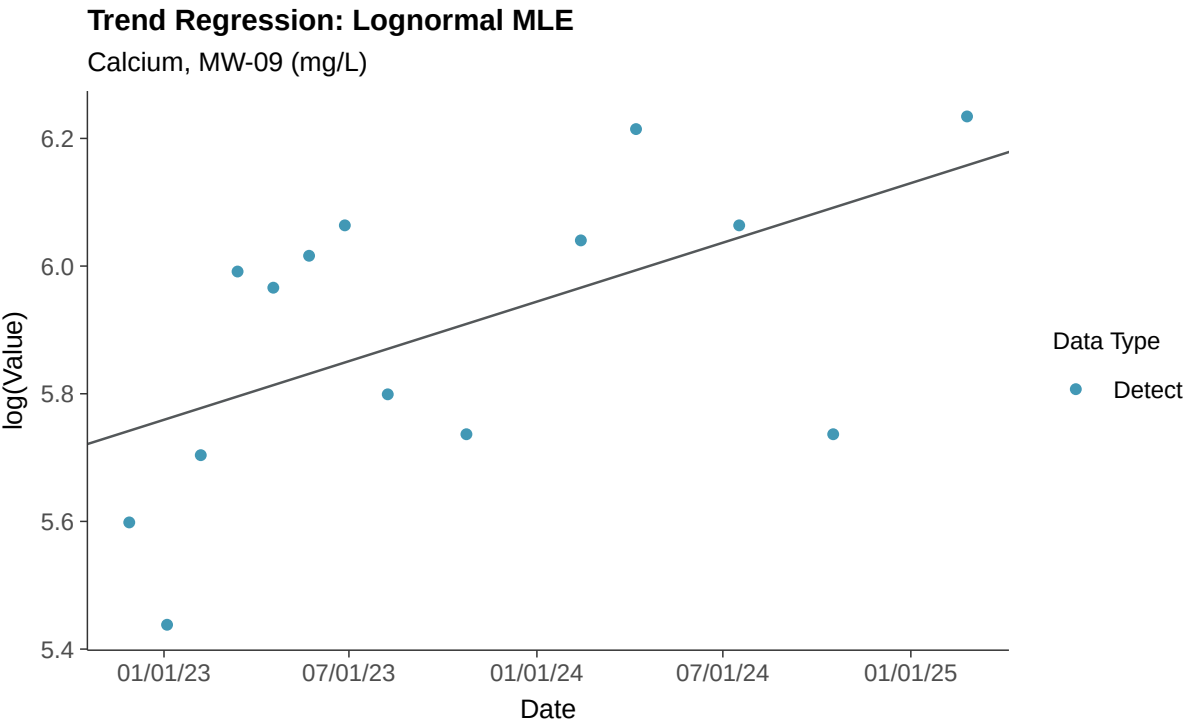
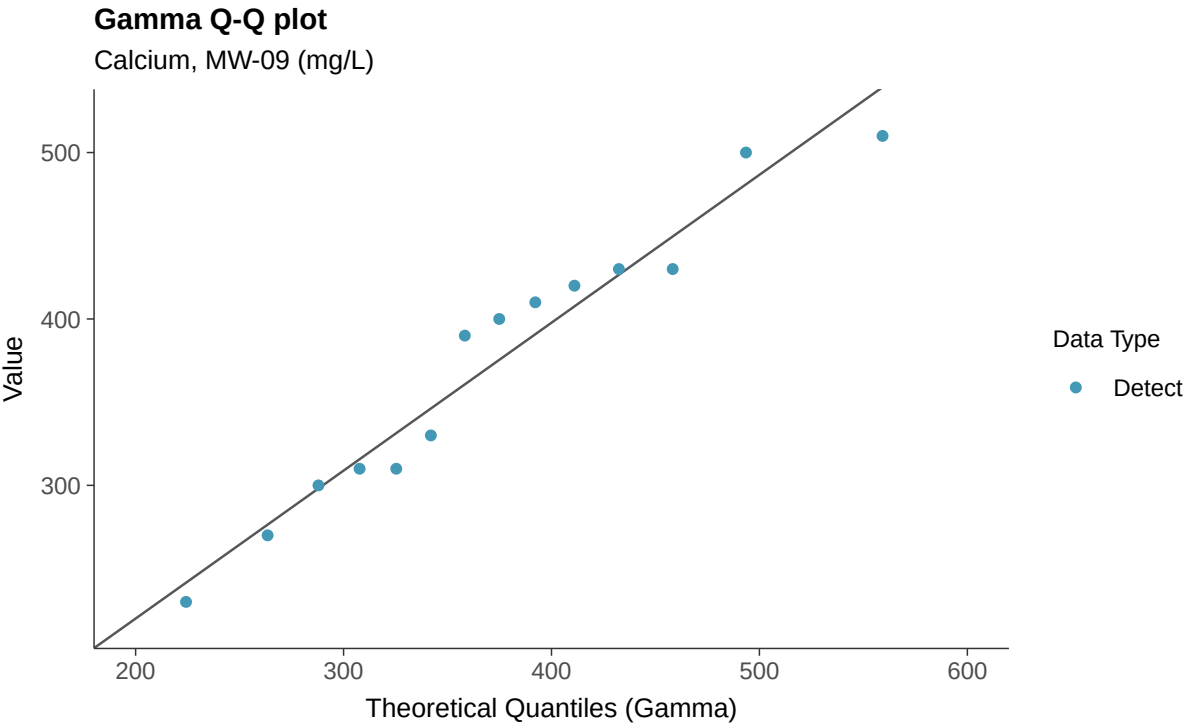
Appendix III: Calcium, MW-09

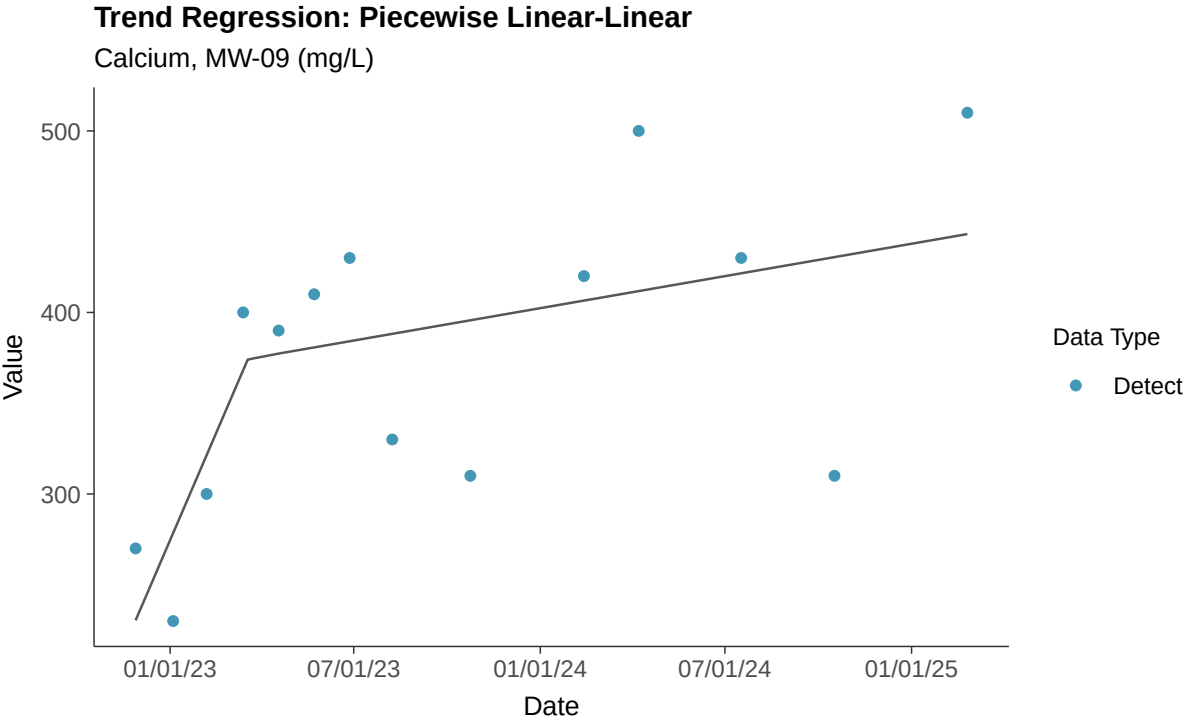
ID: 19_2_3_107







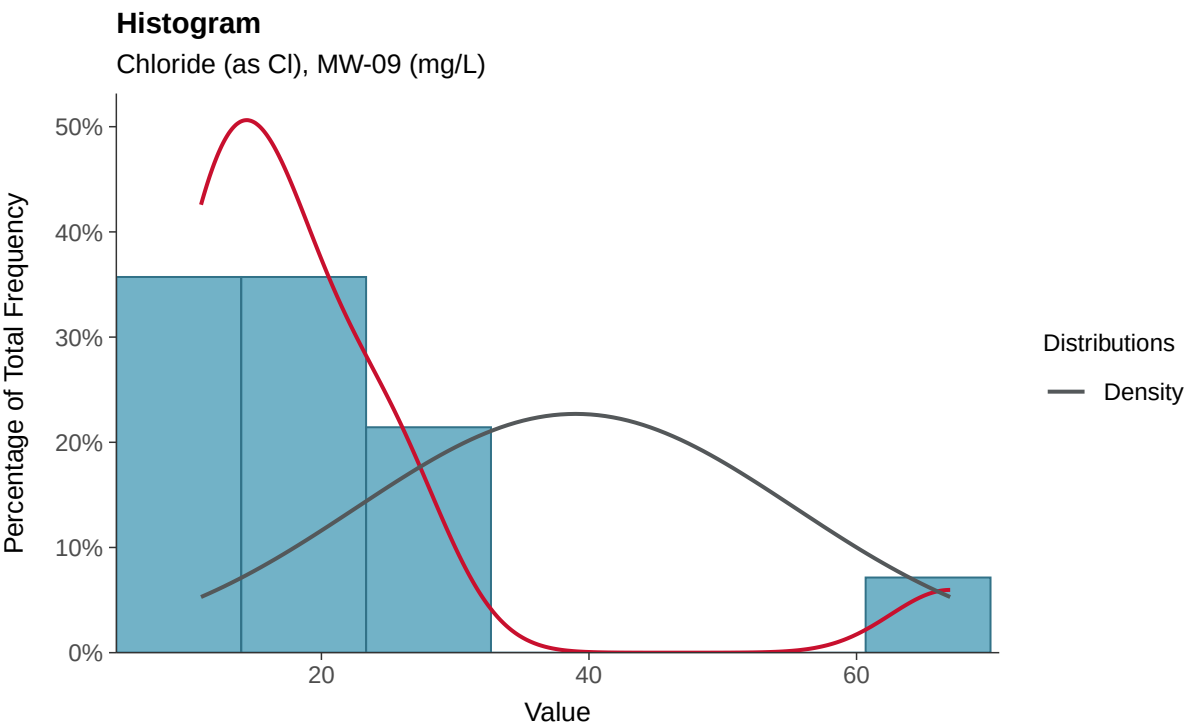
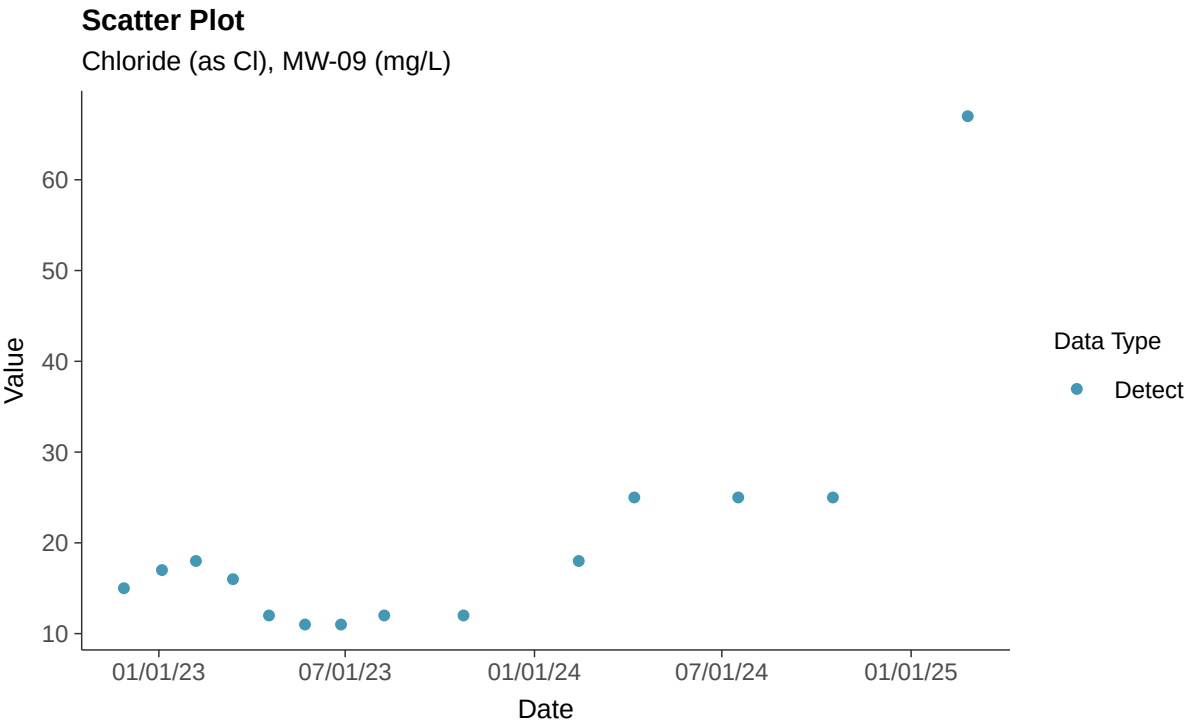


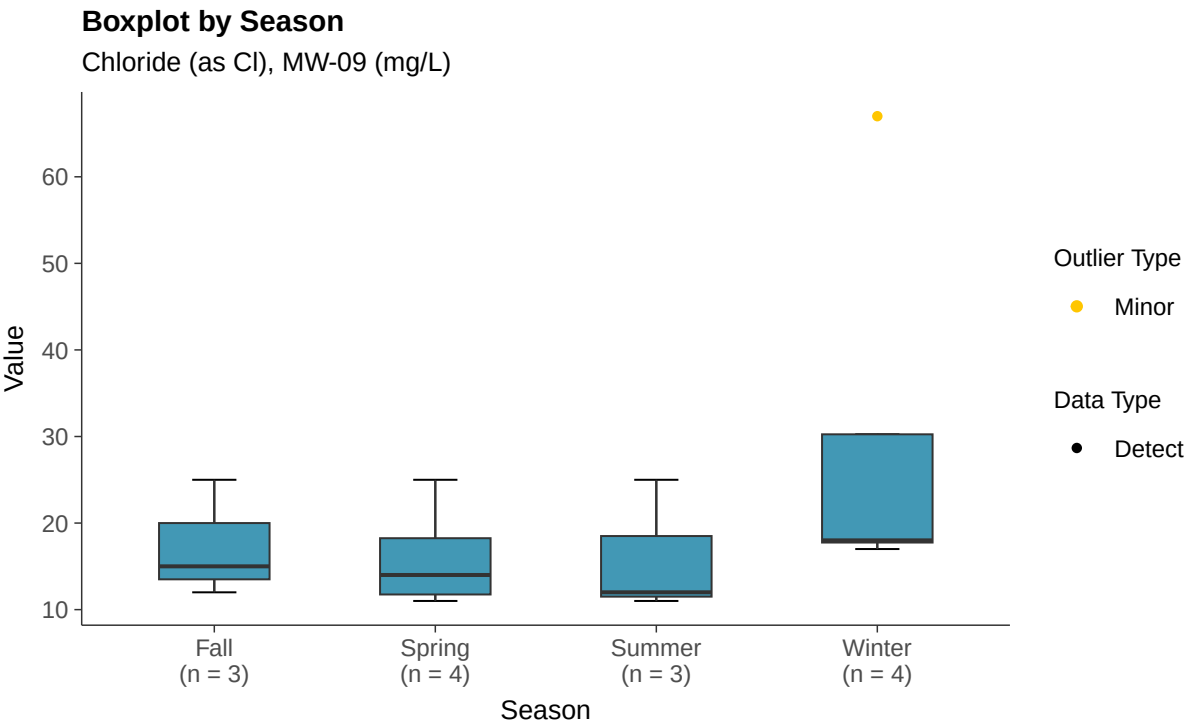
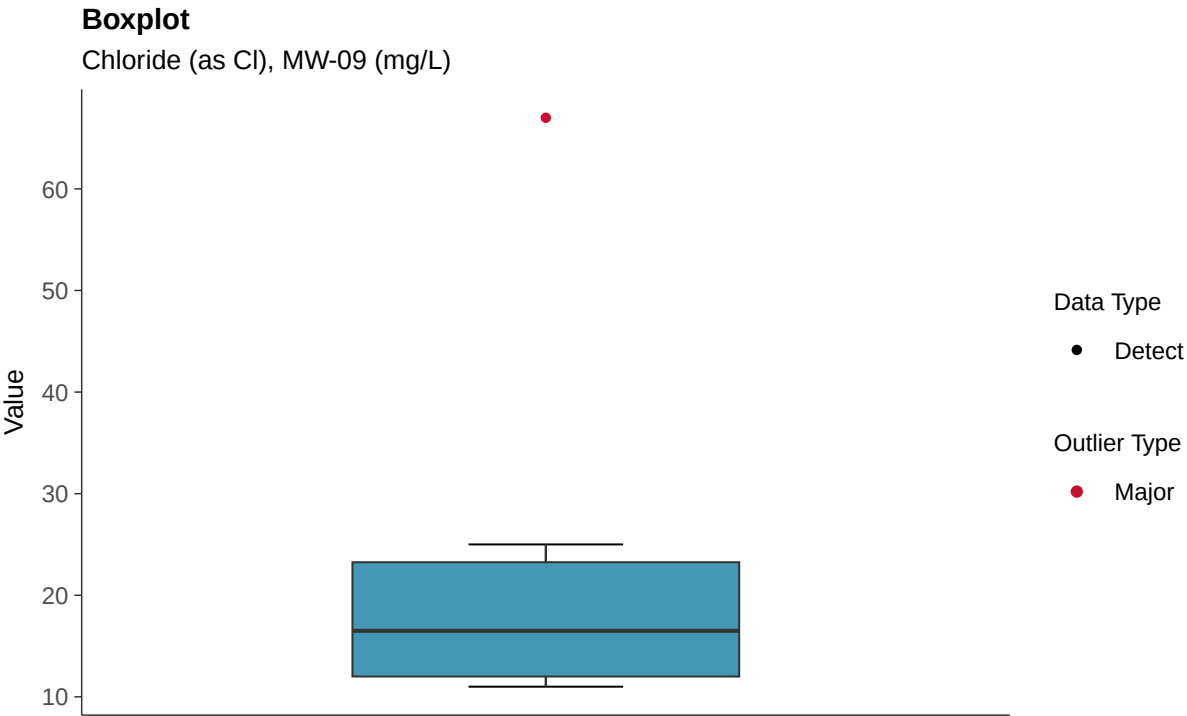




Appendix III: Chloride (as Cl), MW-09

ID: 19_2_3_108

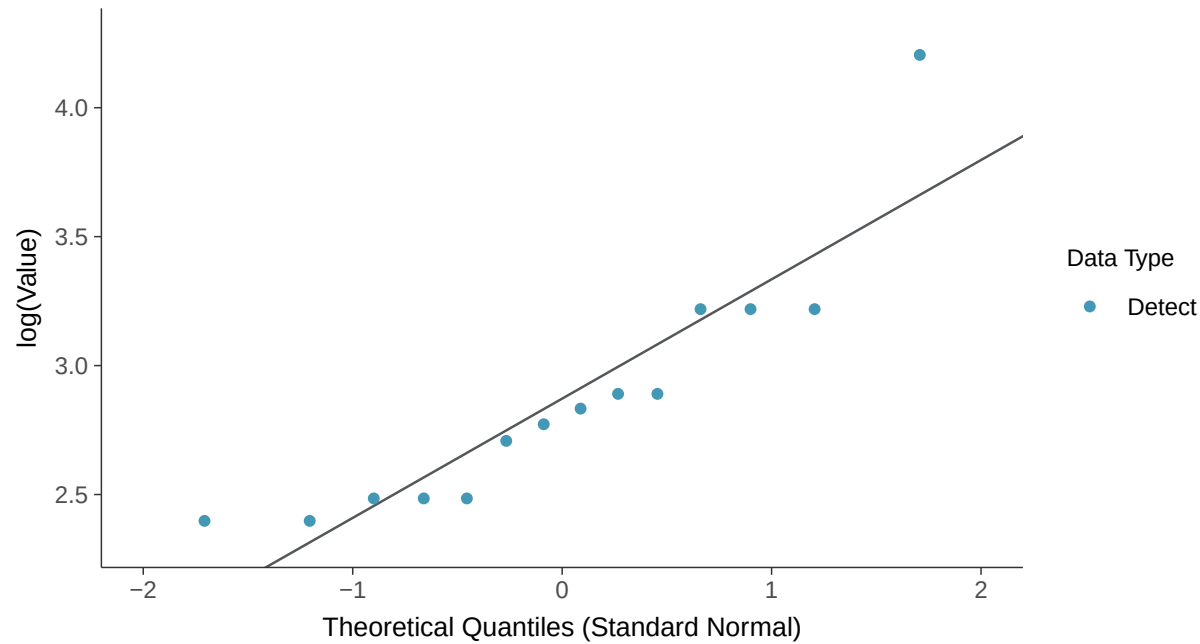






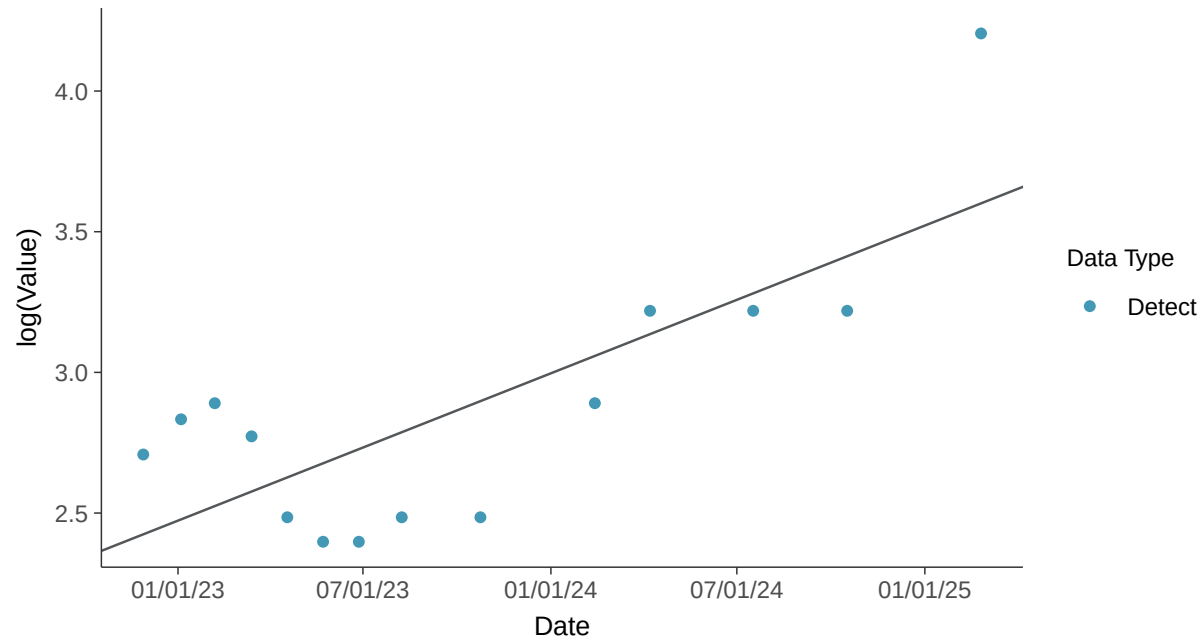
Lognormal Q-Q plot

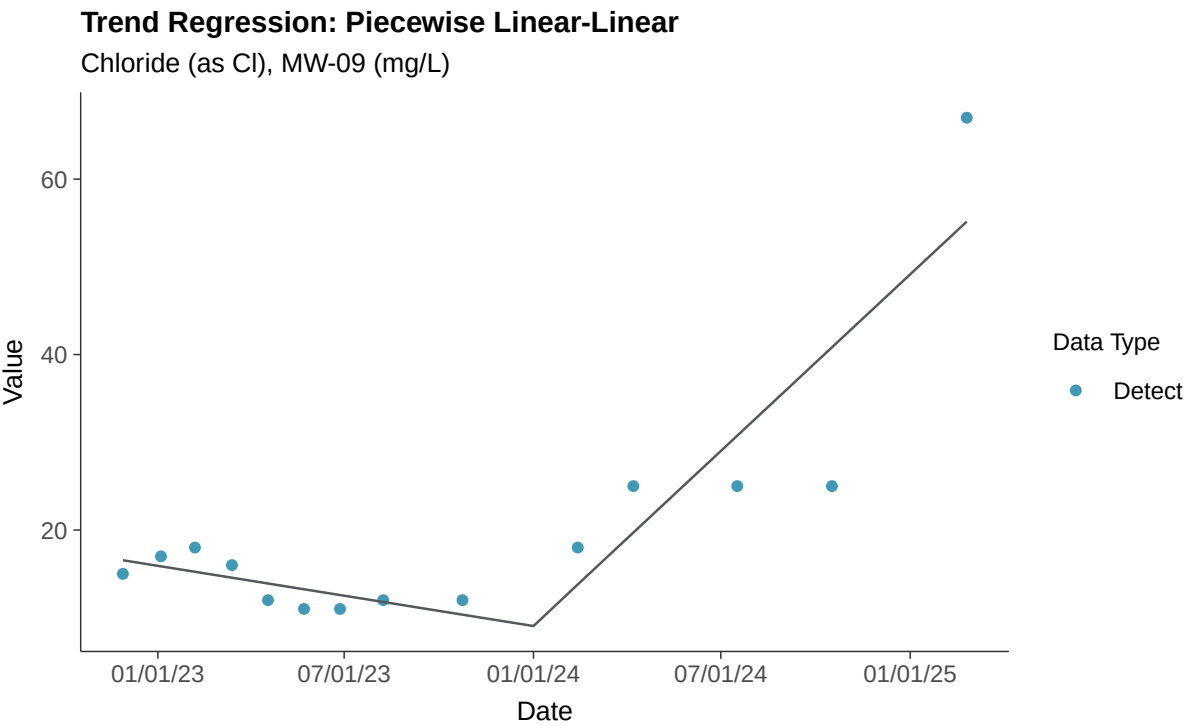
Chloride (as Cl), MW-09 (mg/L)



Trend Regression: Lognormal MLE

Chloride (as Cl), MW-09 (mg/L)

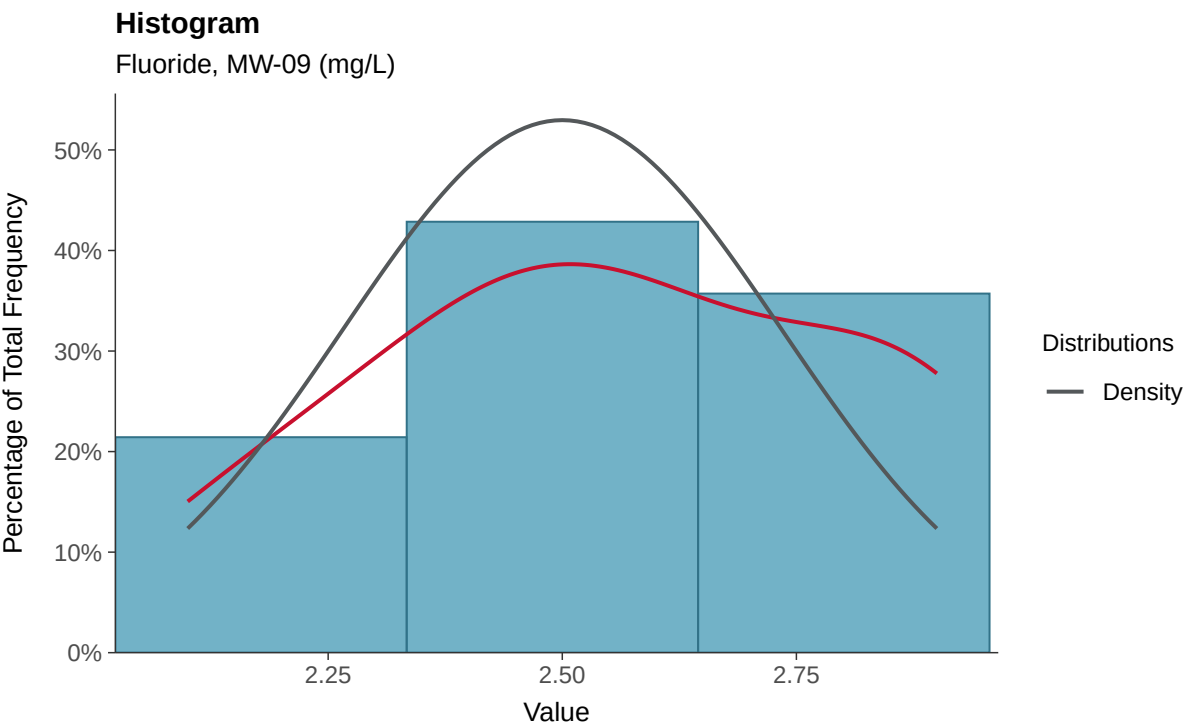
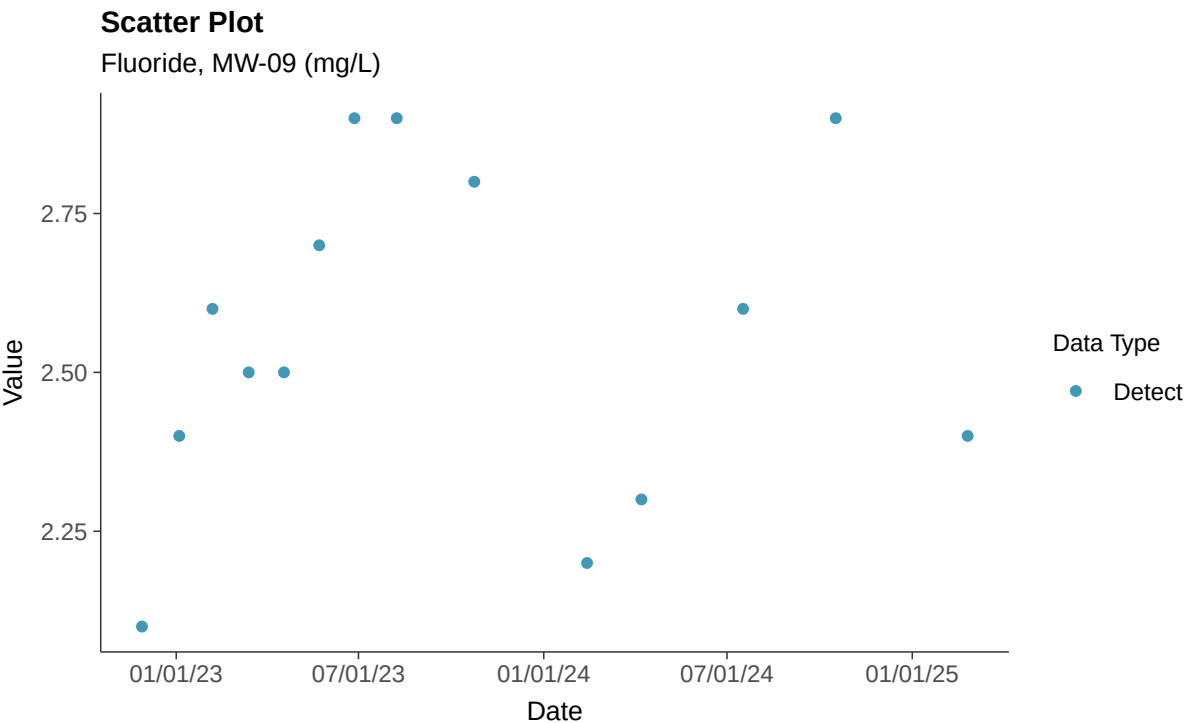


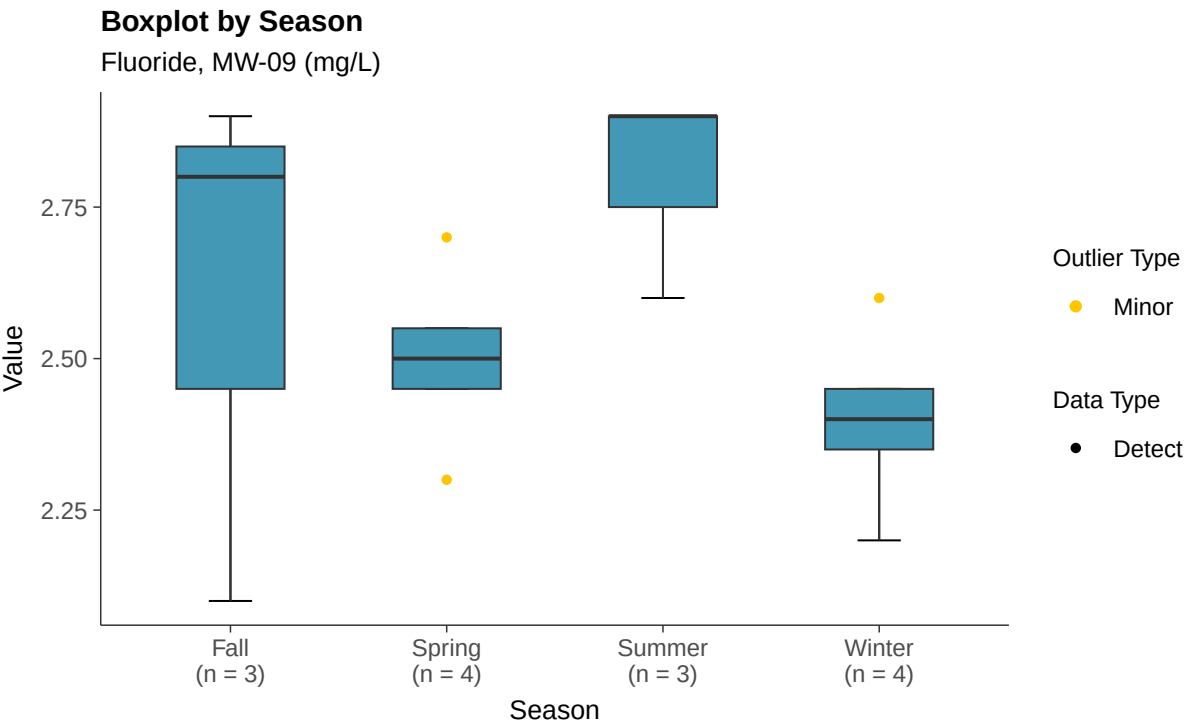
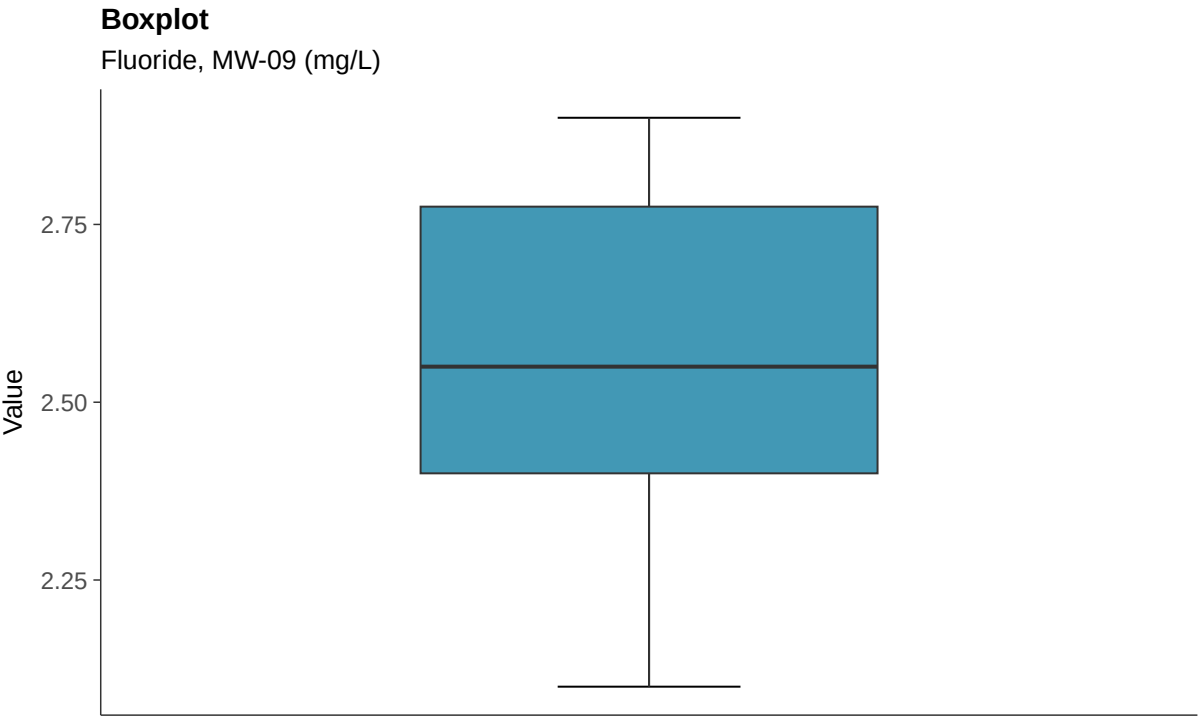


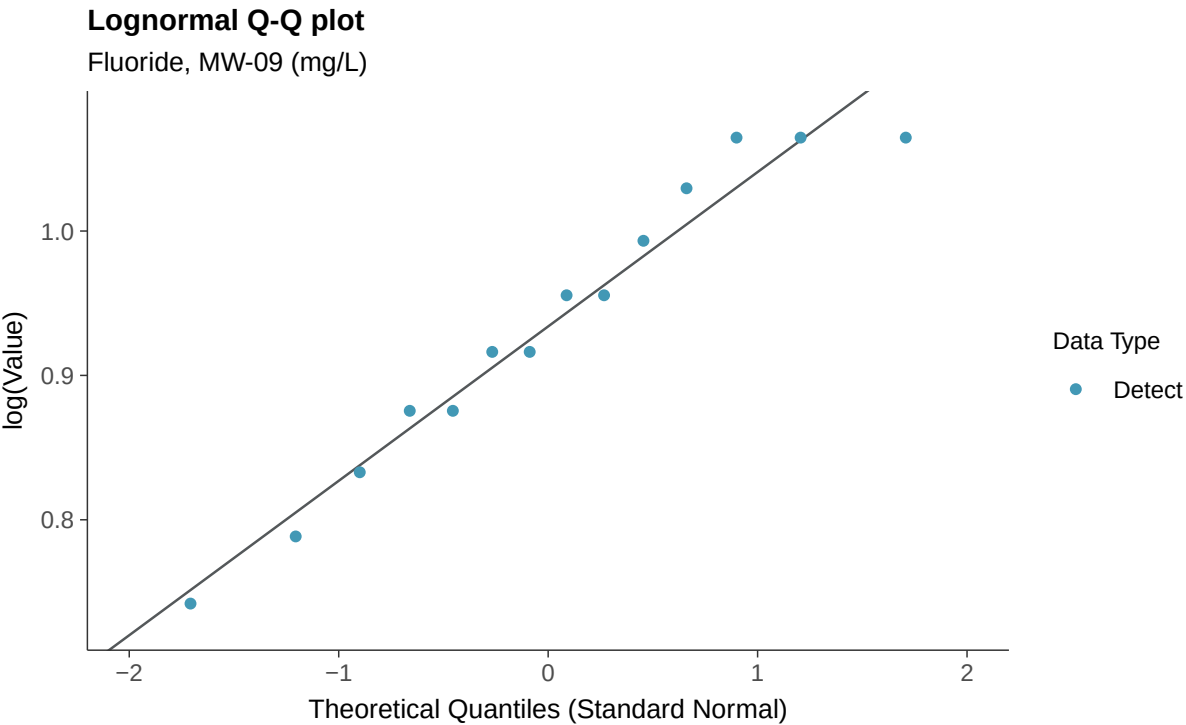
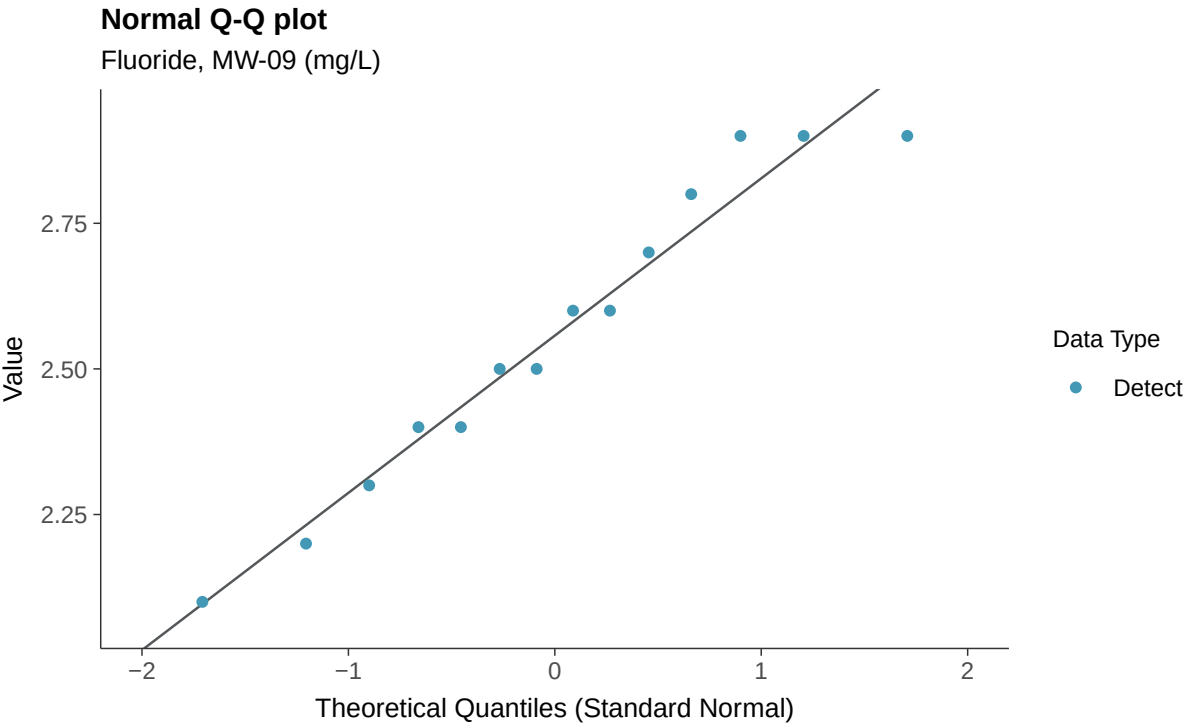


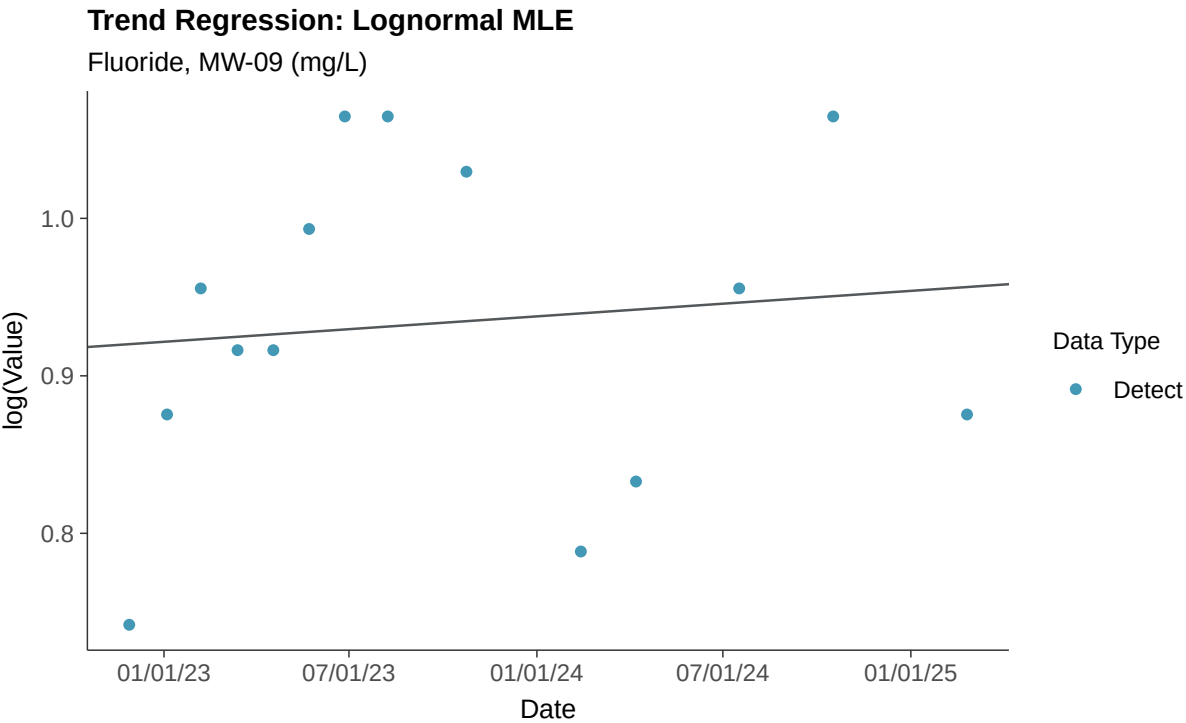
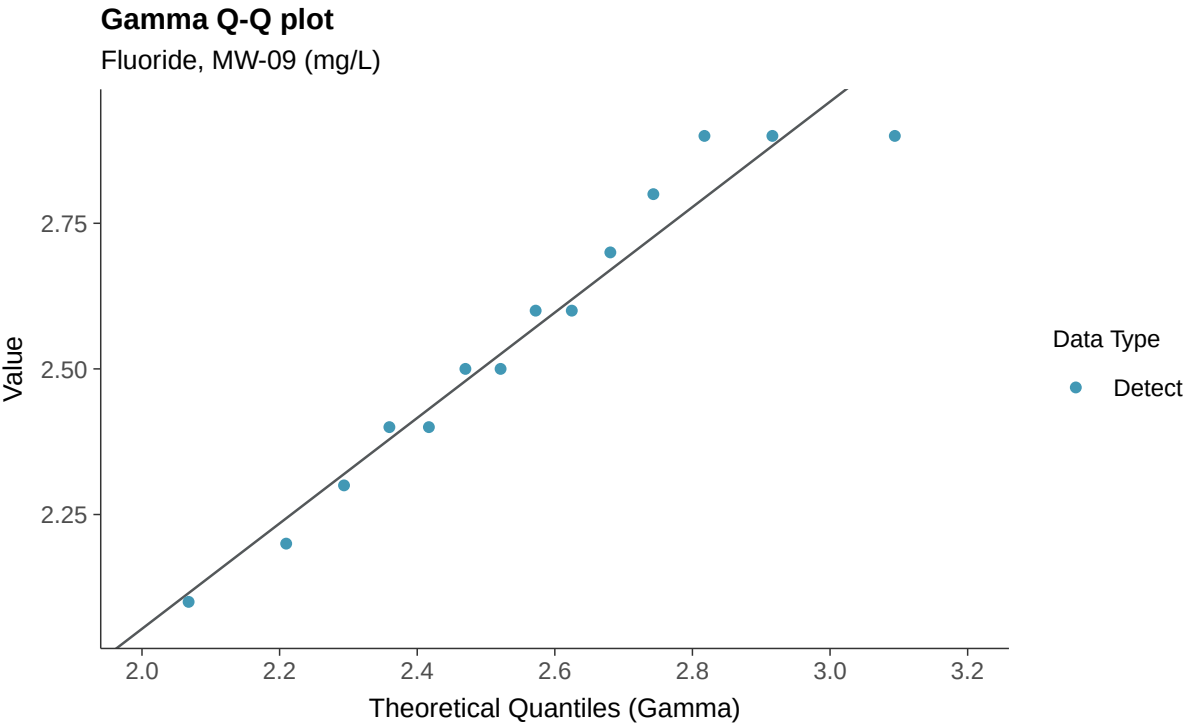
Appendix III: Fluoride, MW-09

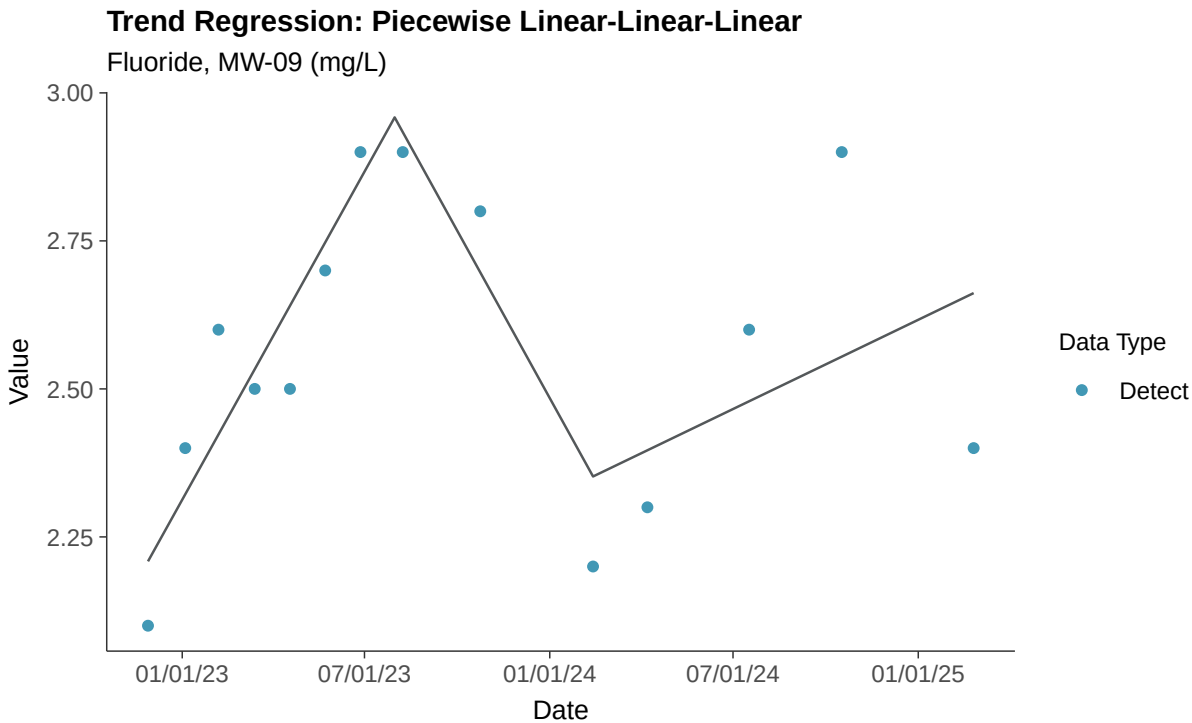
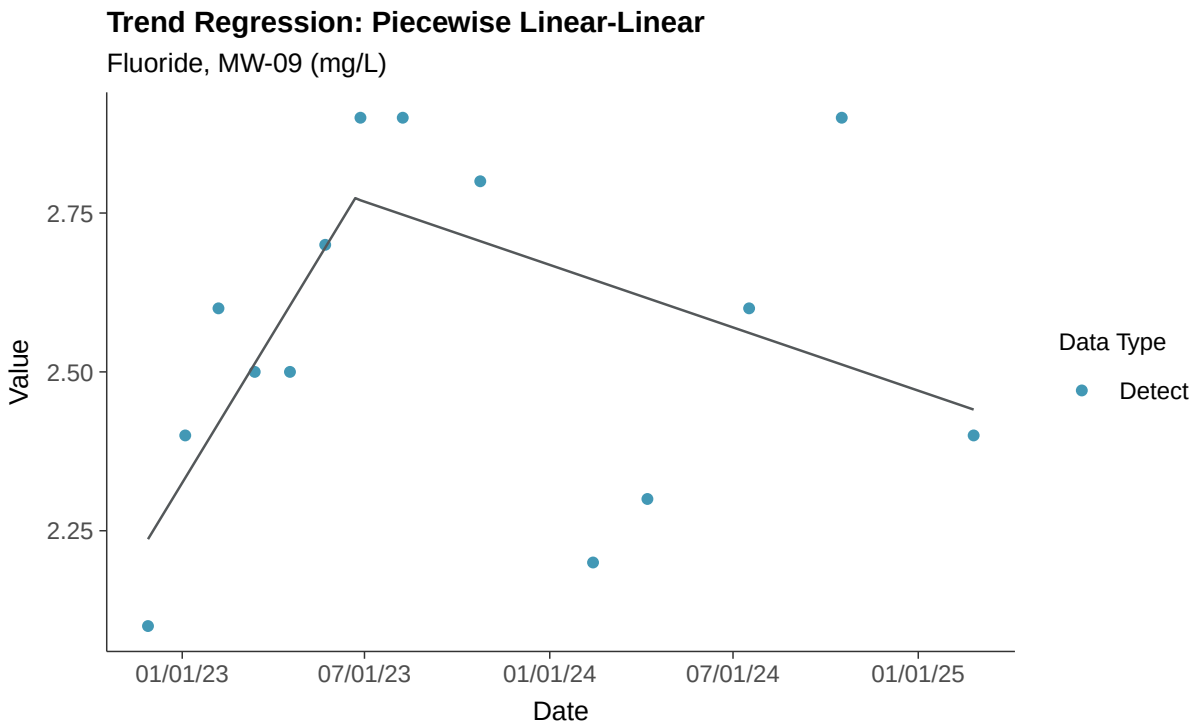
ID: 19_2_3_112







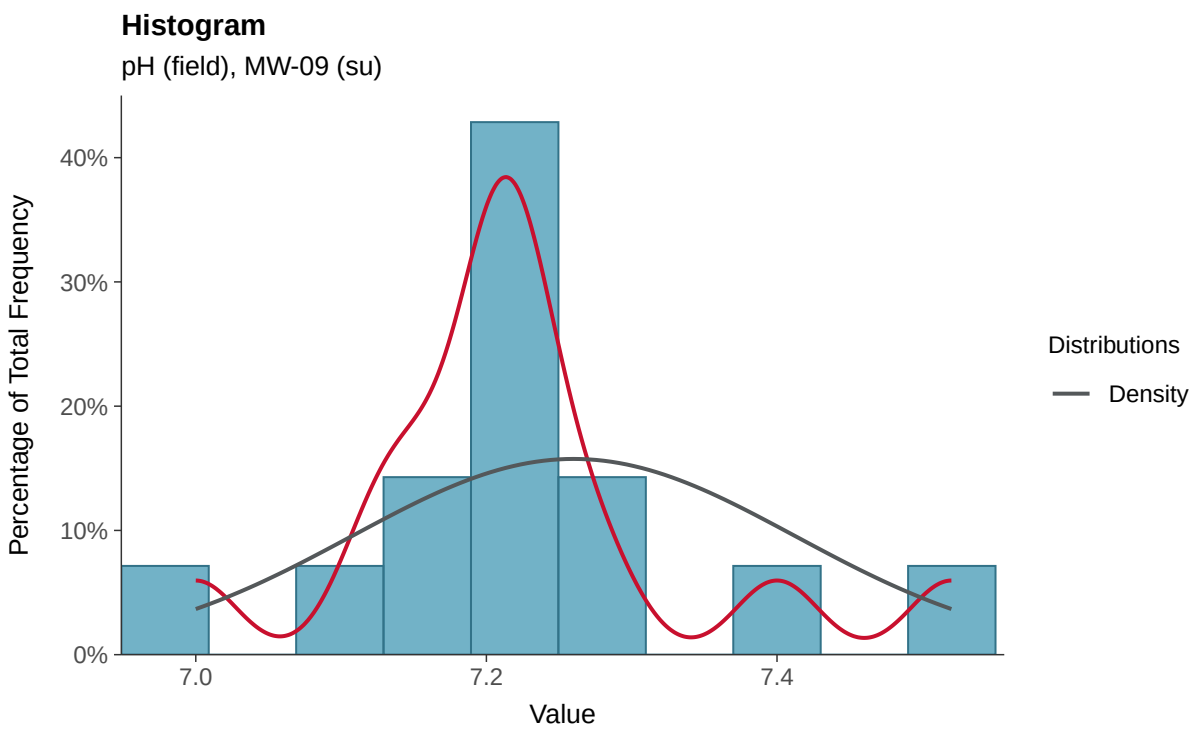
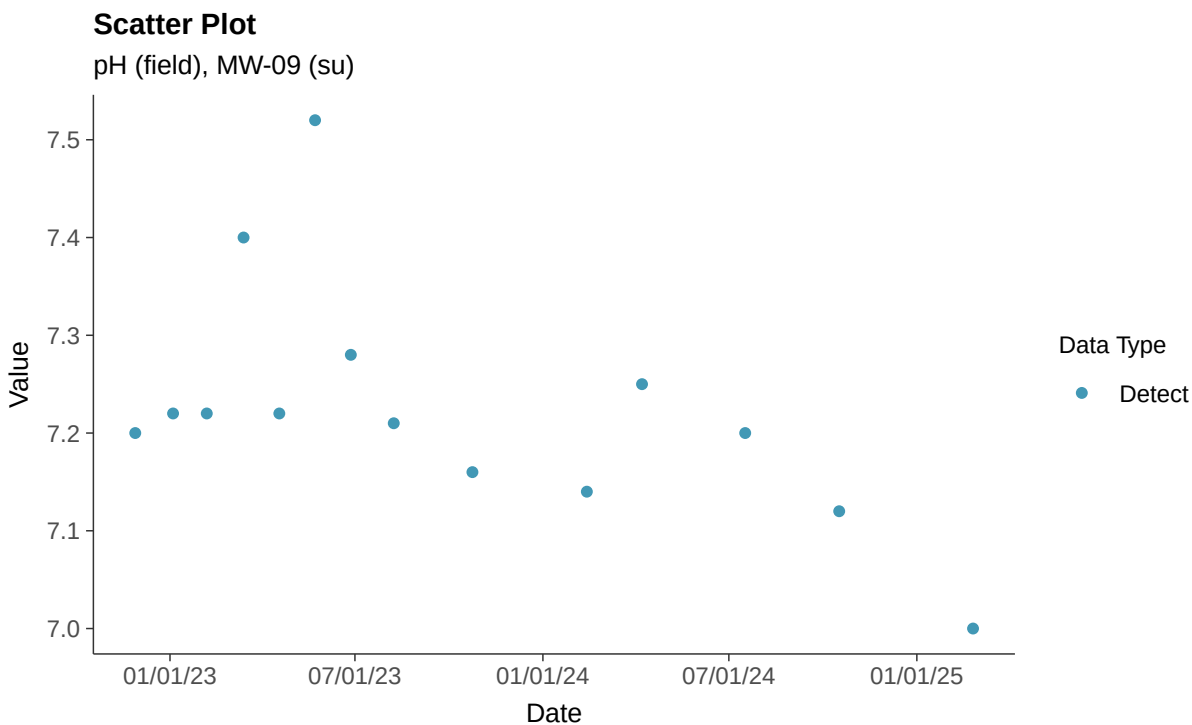


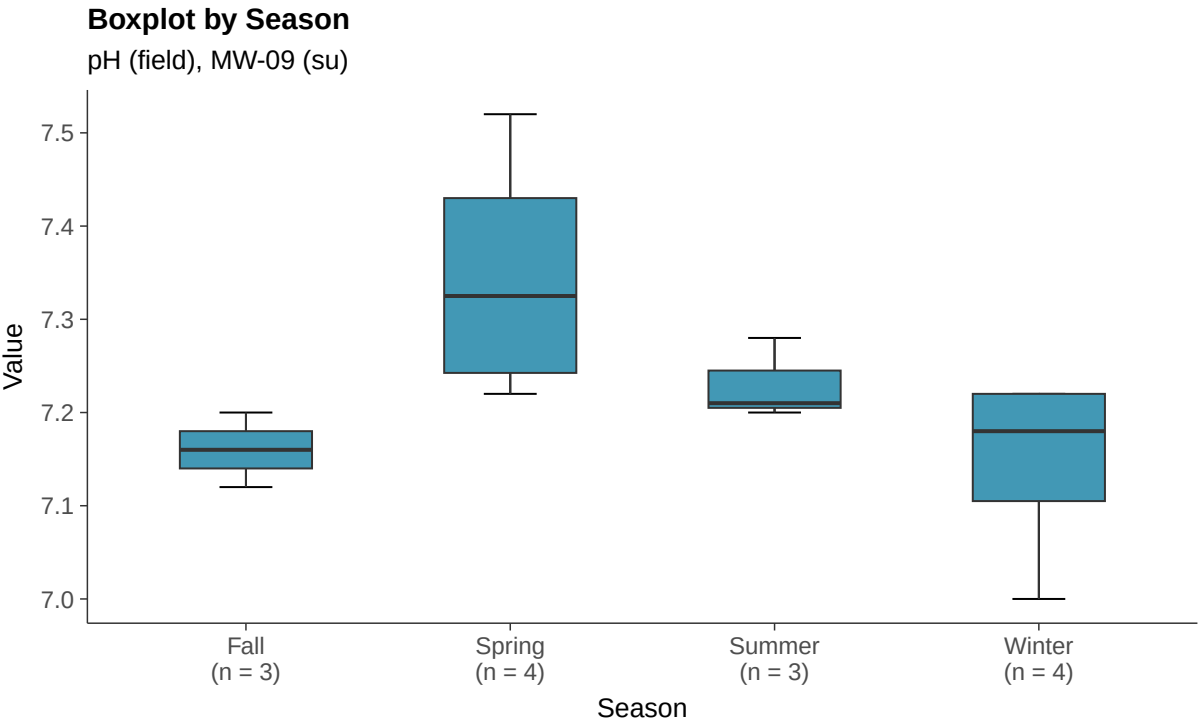
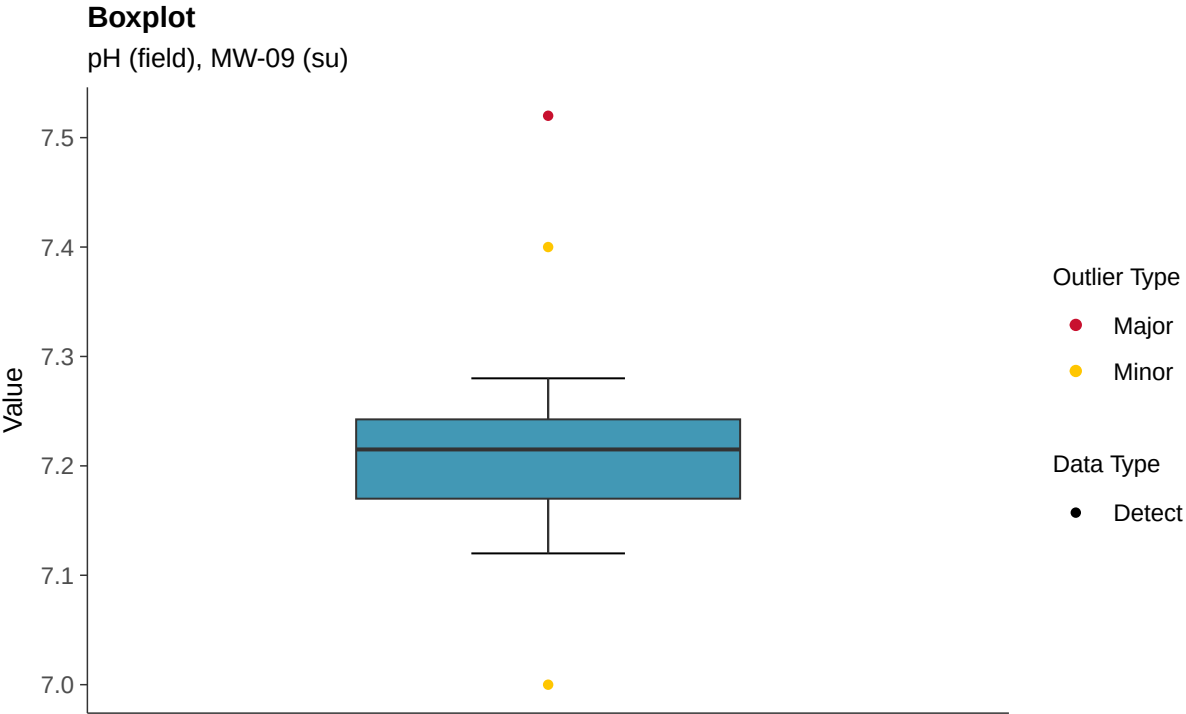


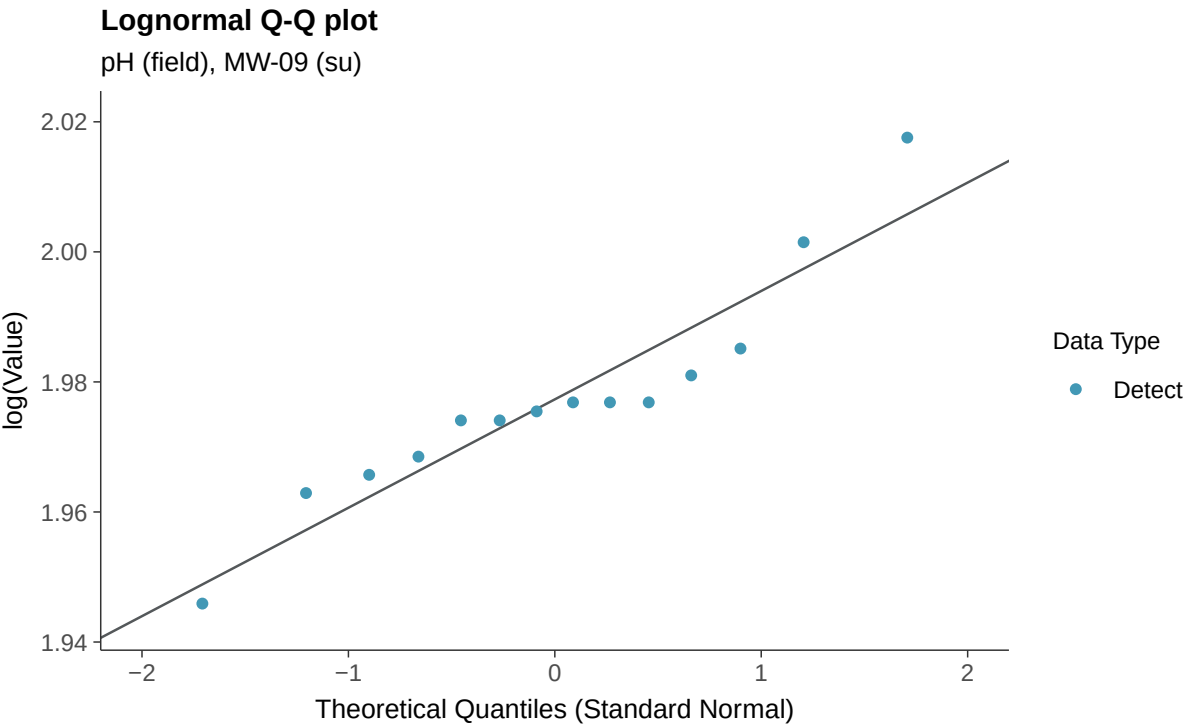
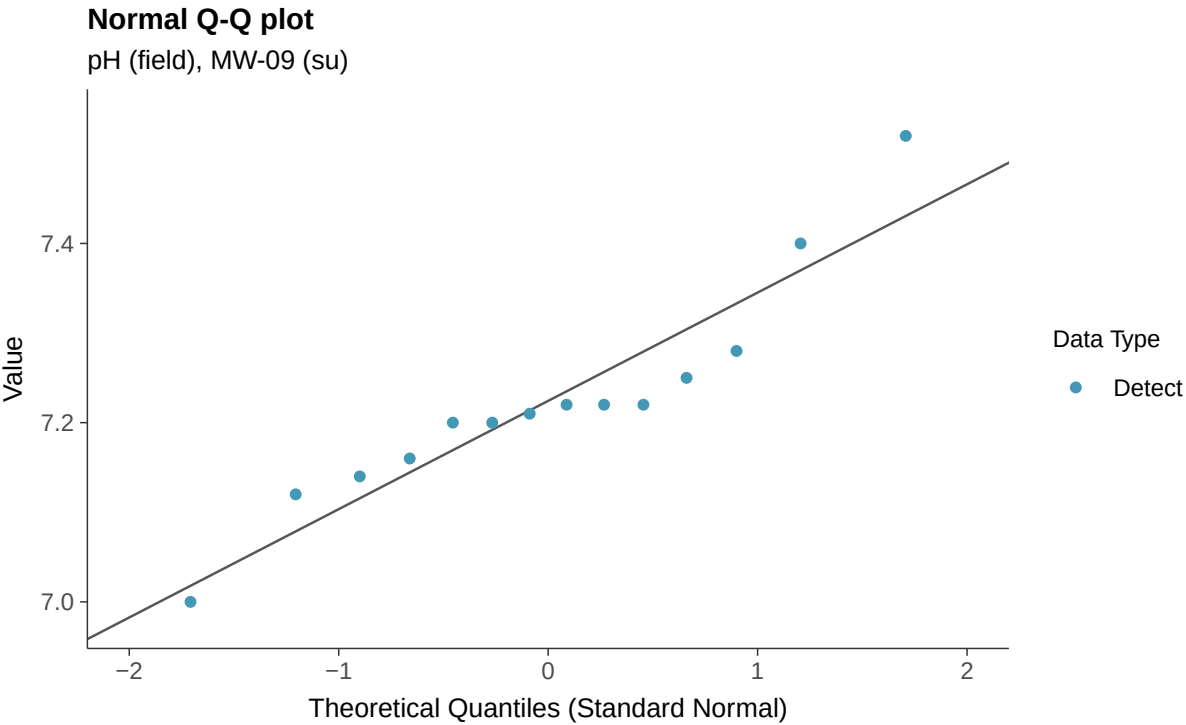


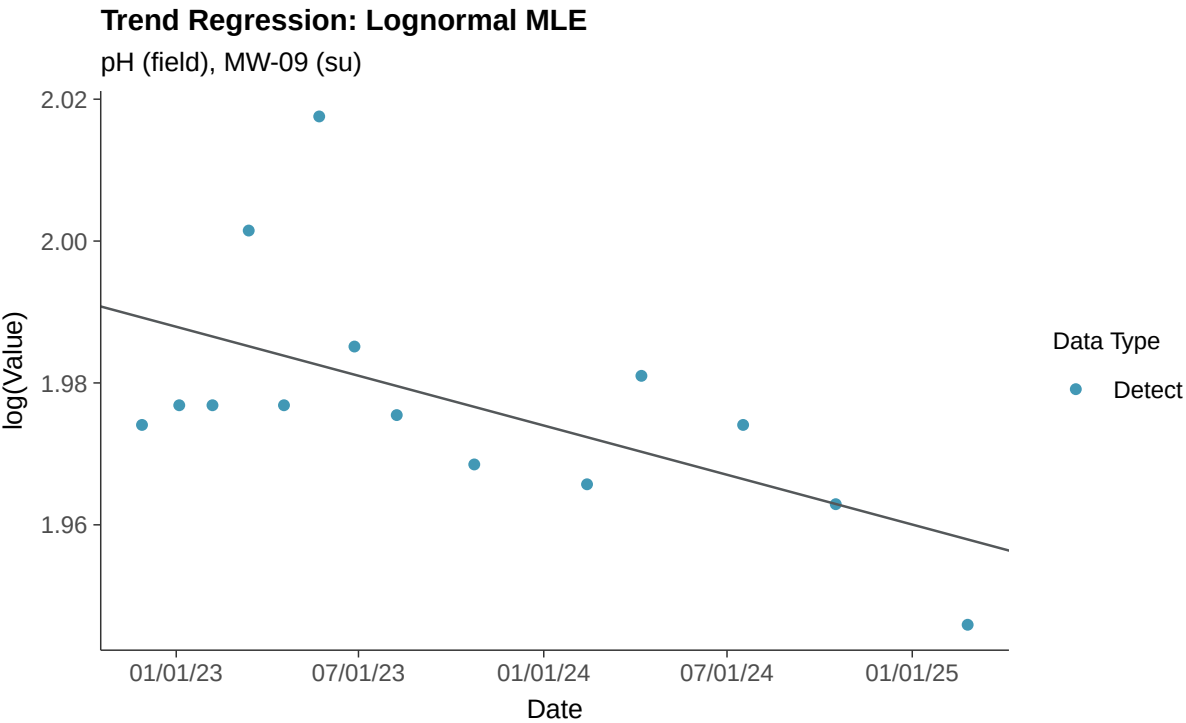
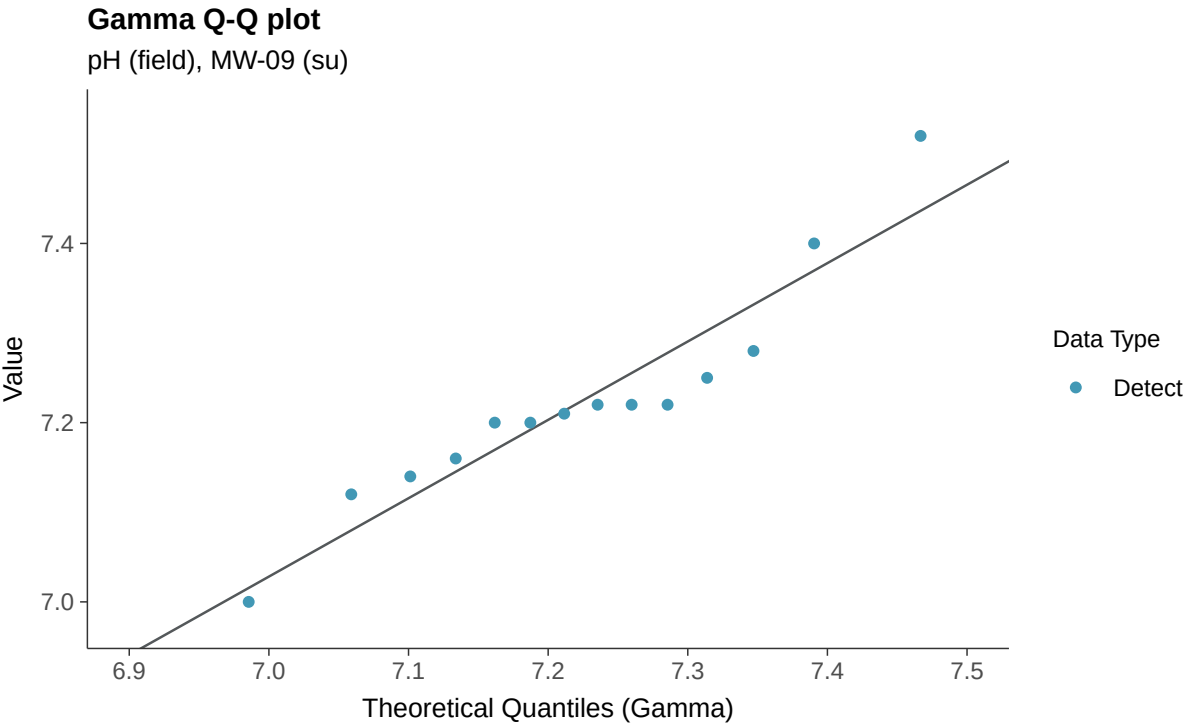
Appendix III: pH (field), MW-09

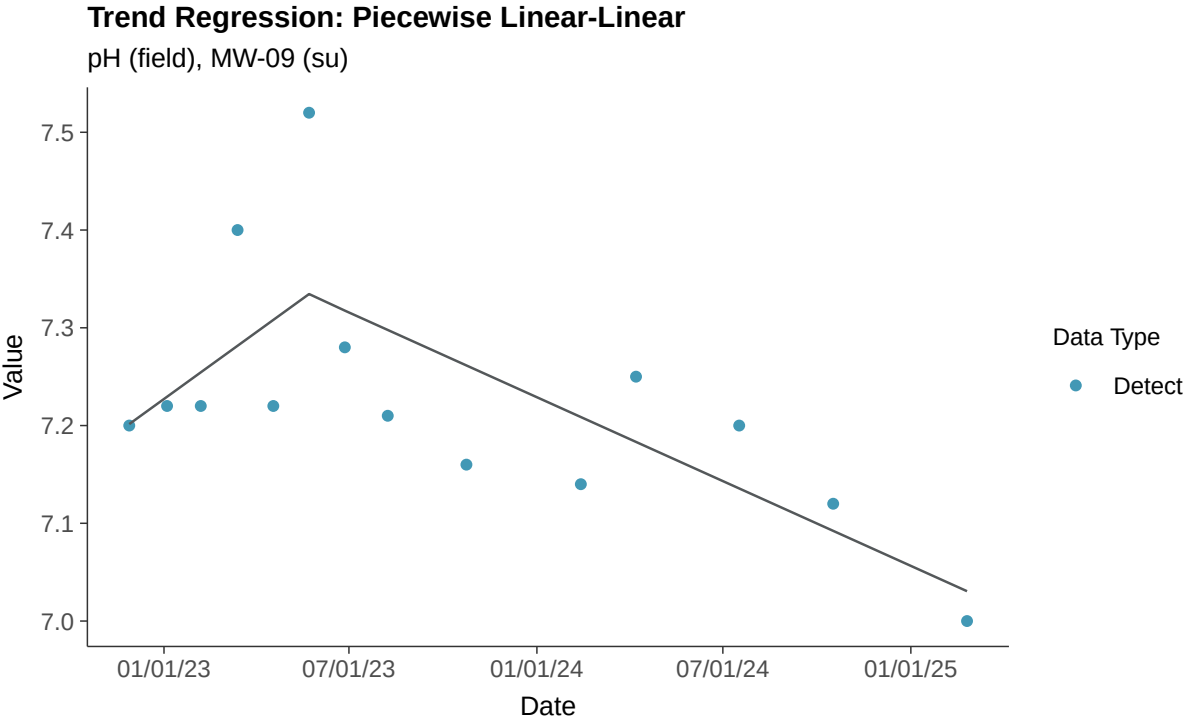
ID: 19_2_3_120







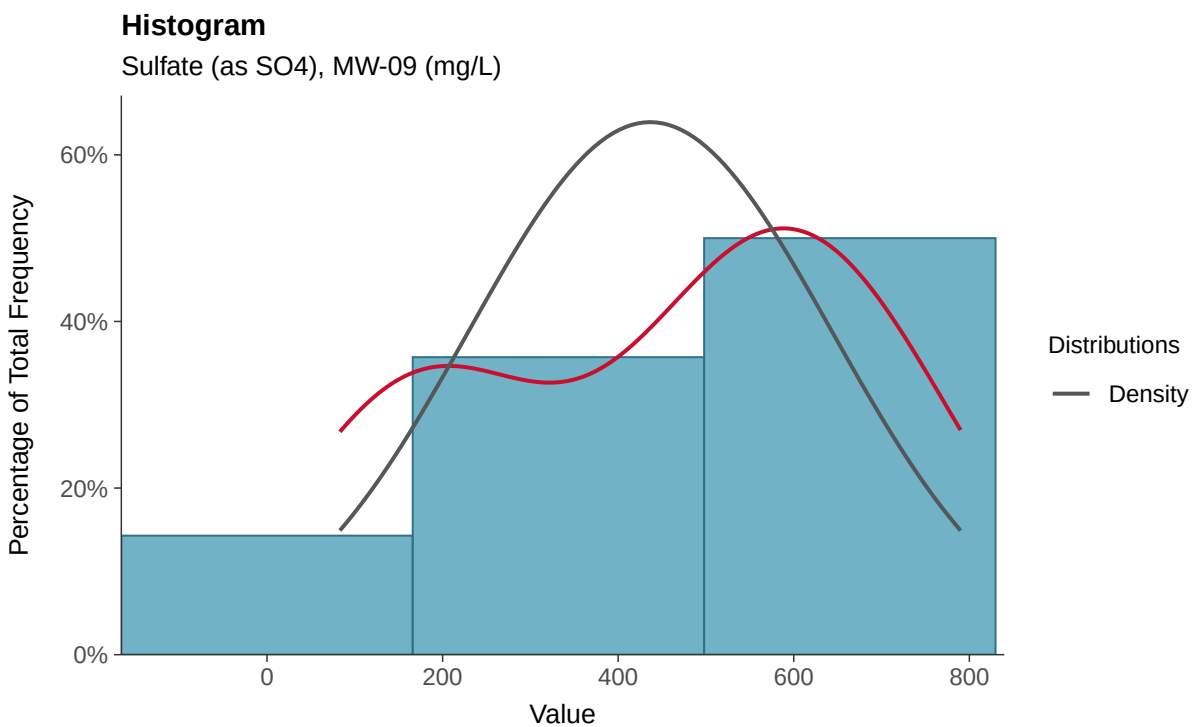
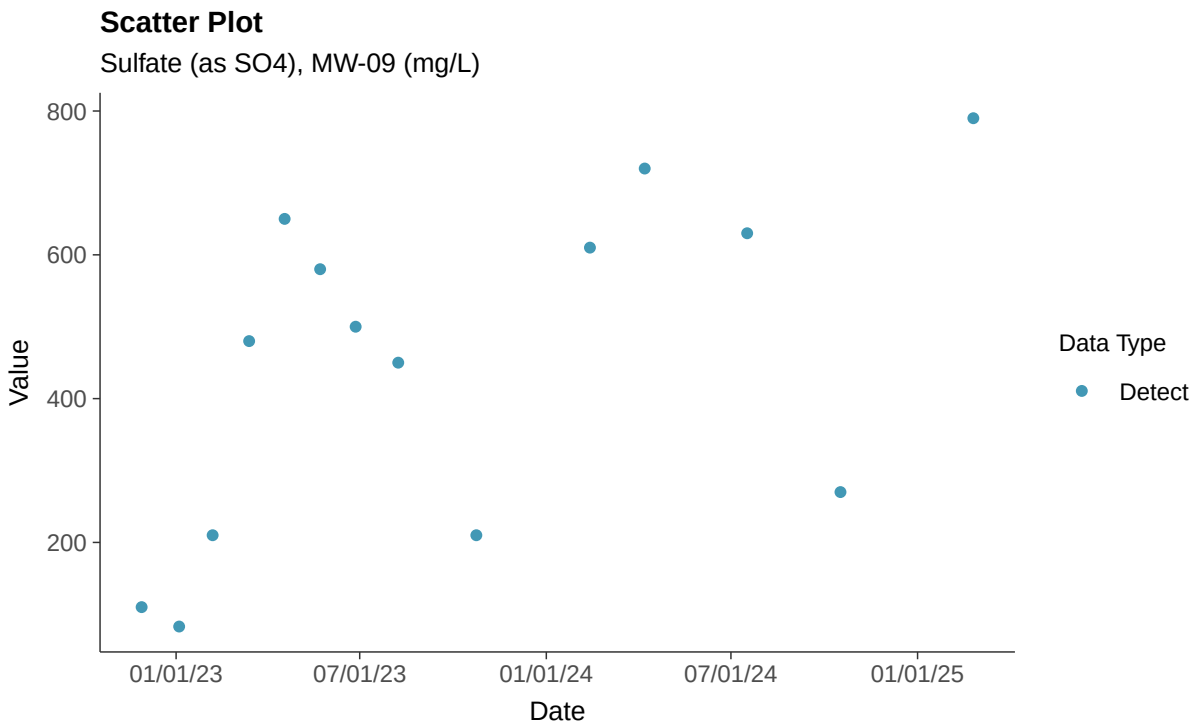


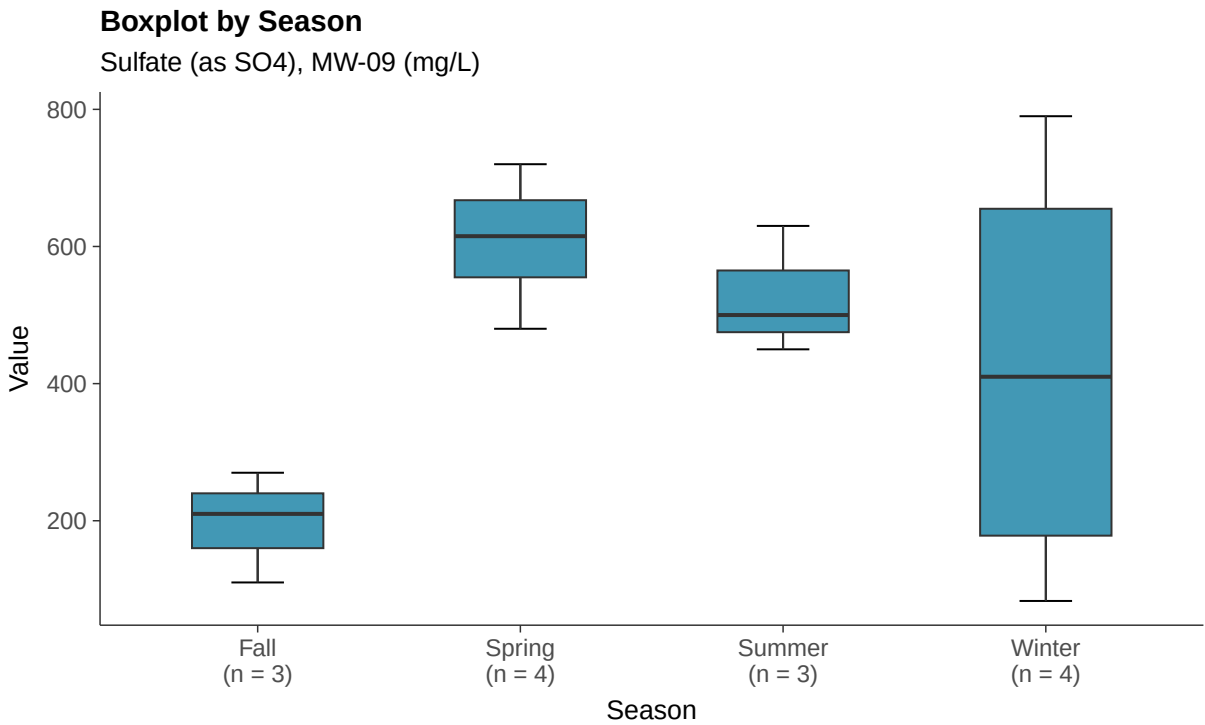
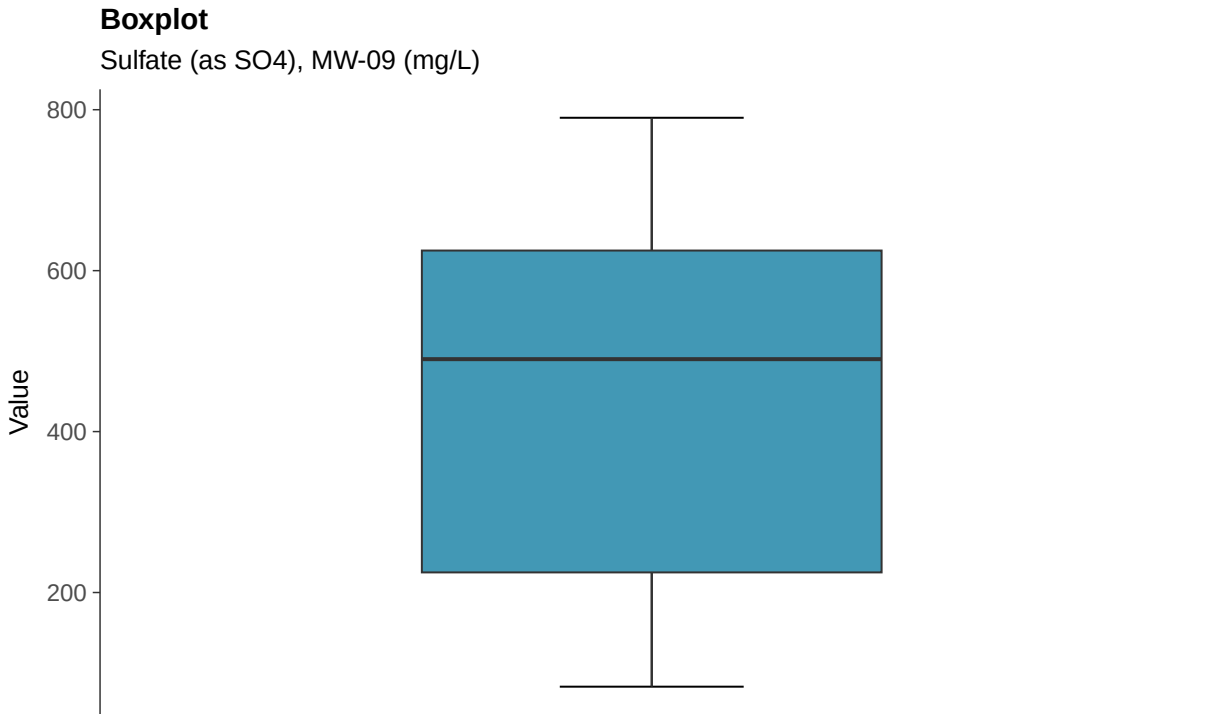


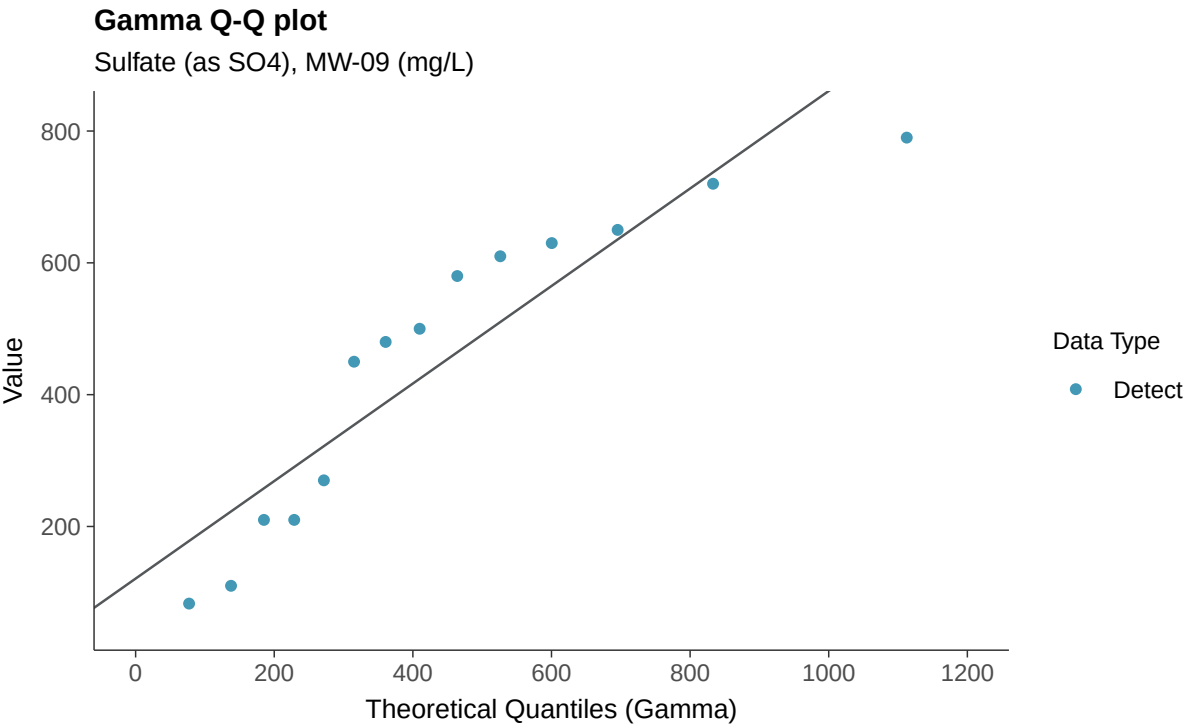
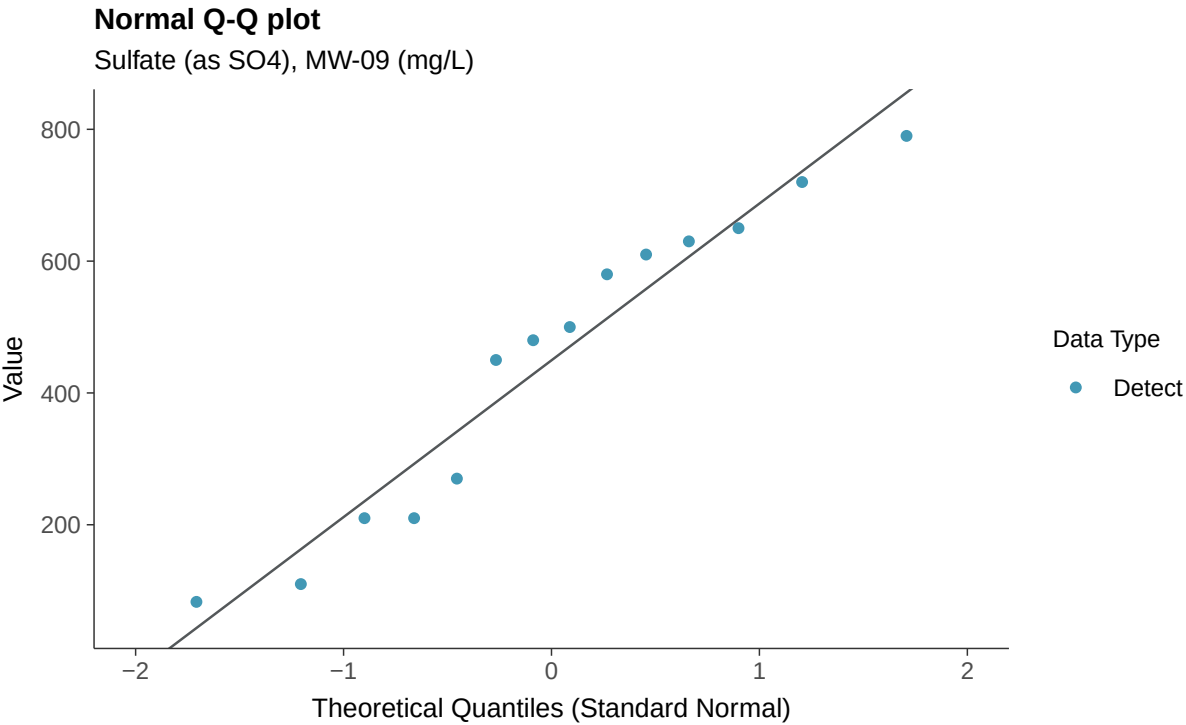


Appendix III: Sulfate (as SO₄), MW-09

ID: 19_2_3_124



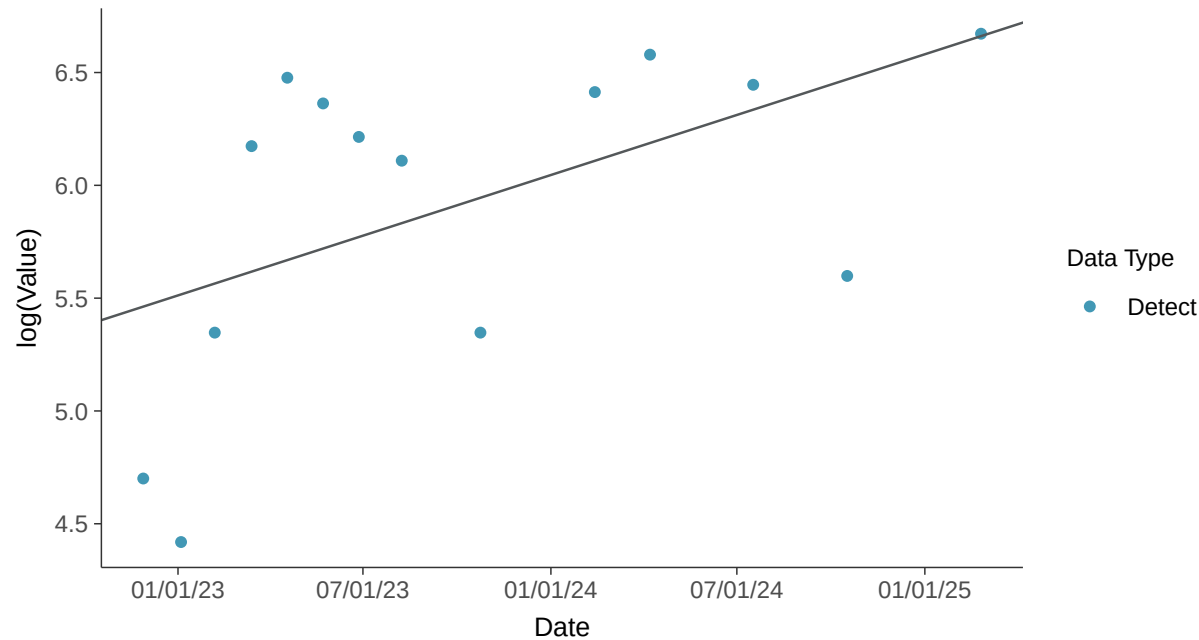






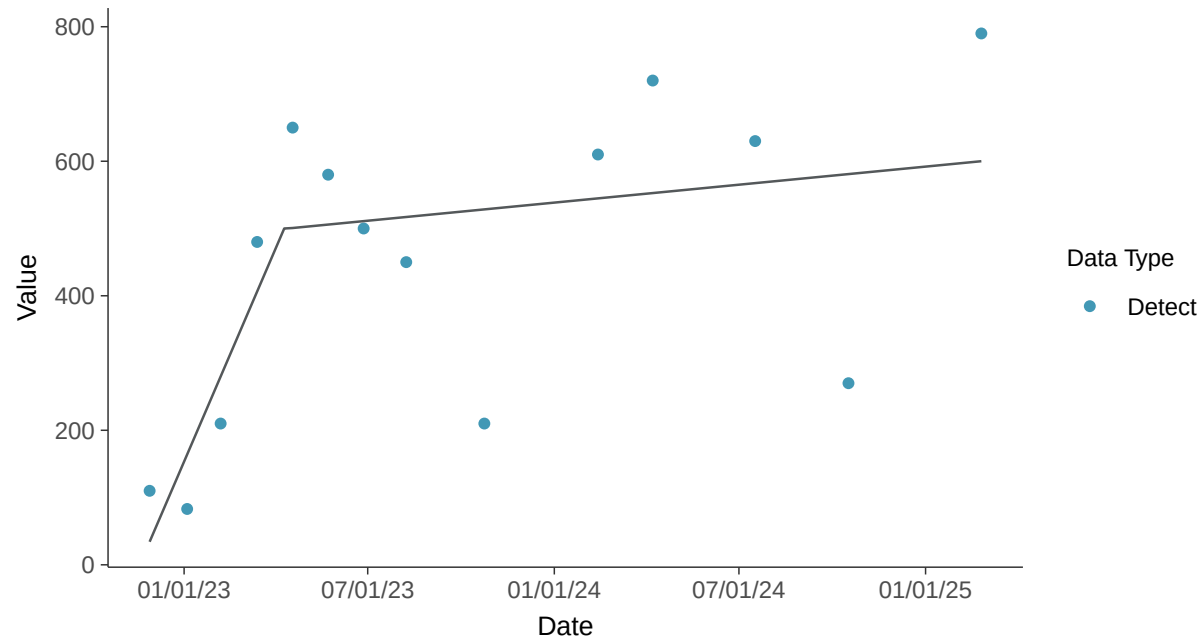
Trend Regression: Lognormal MLE

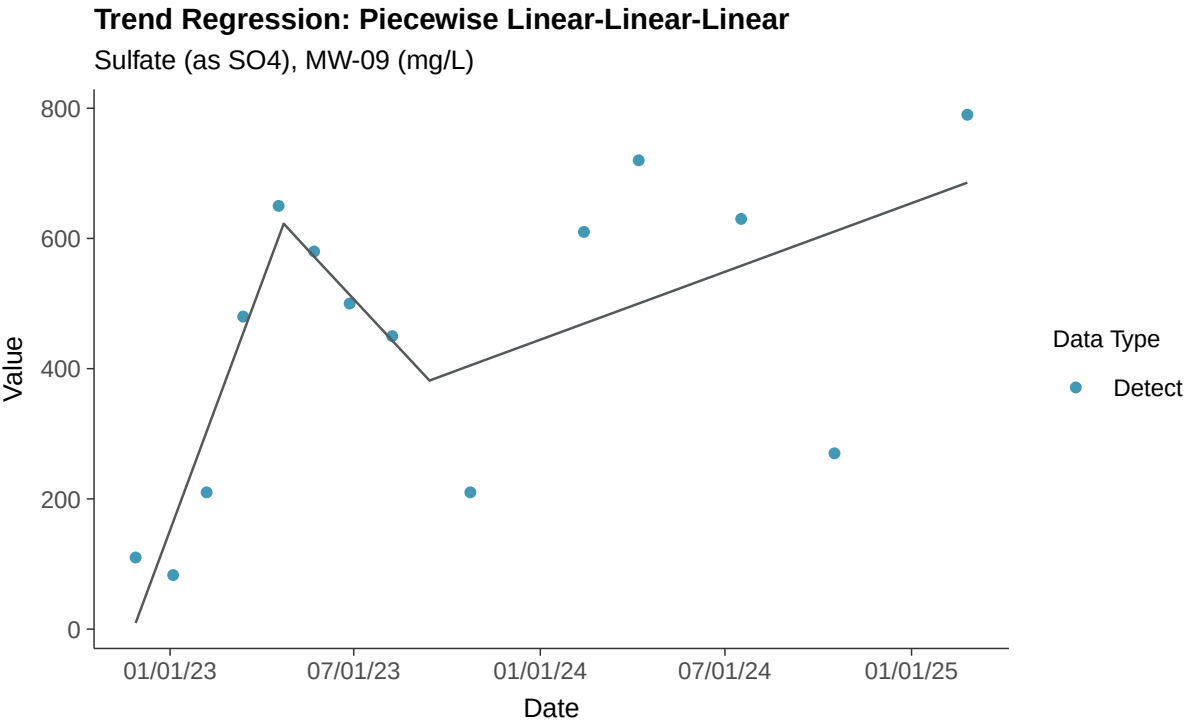
Sulfate (as SO₄), MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-09 (mg/L)

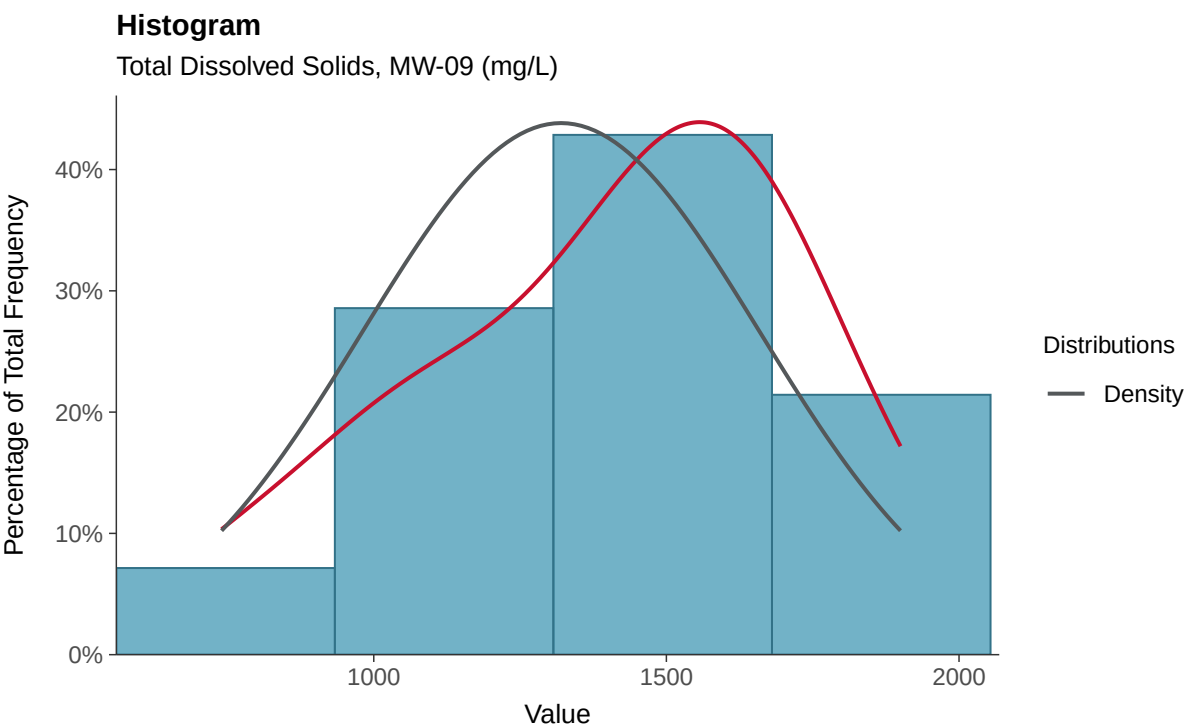
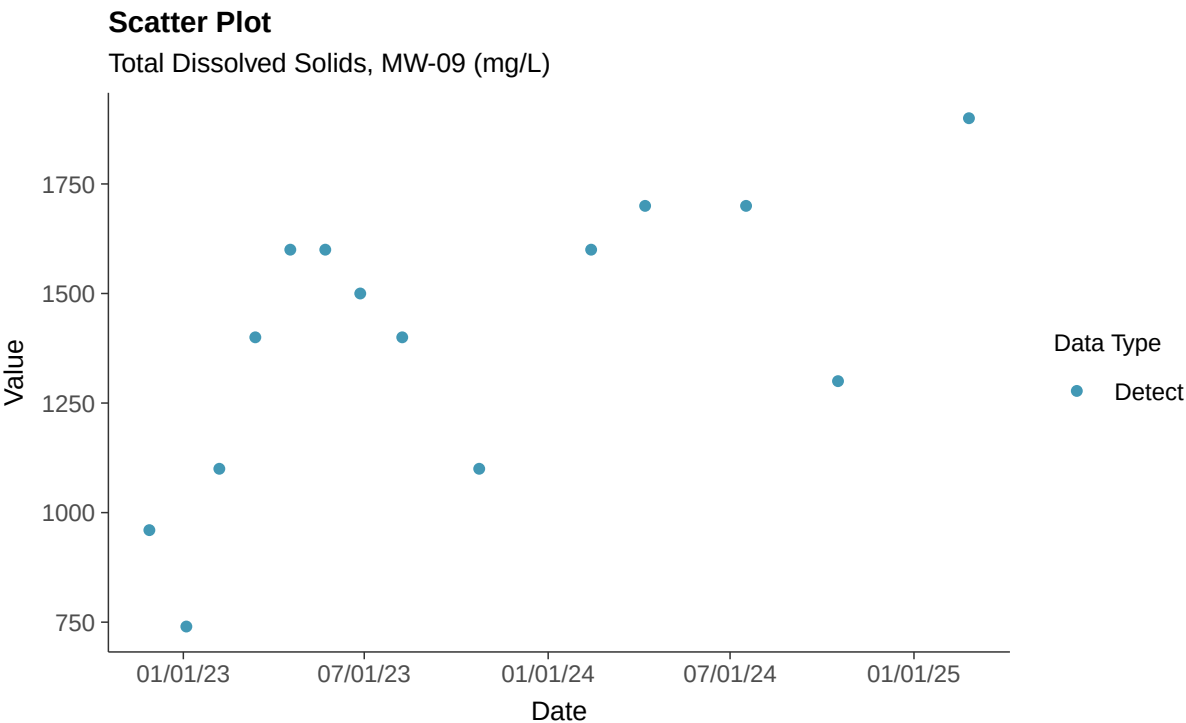


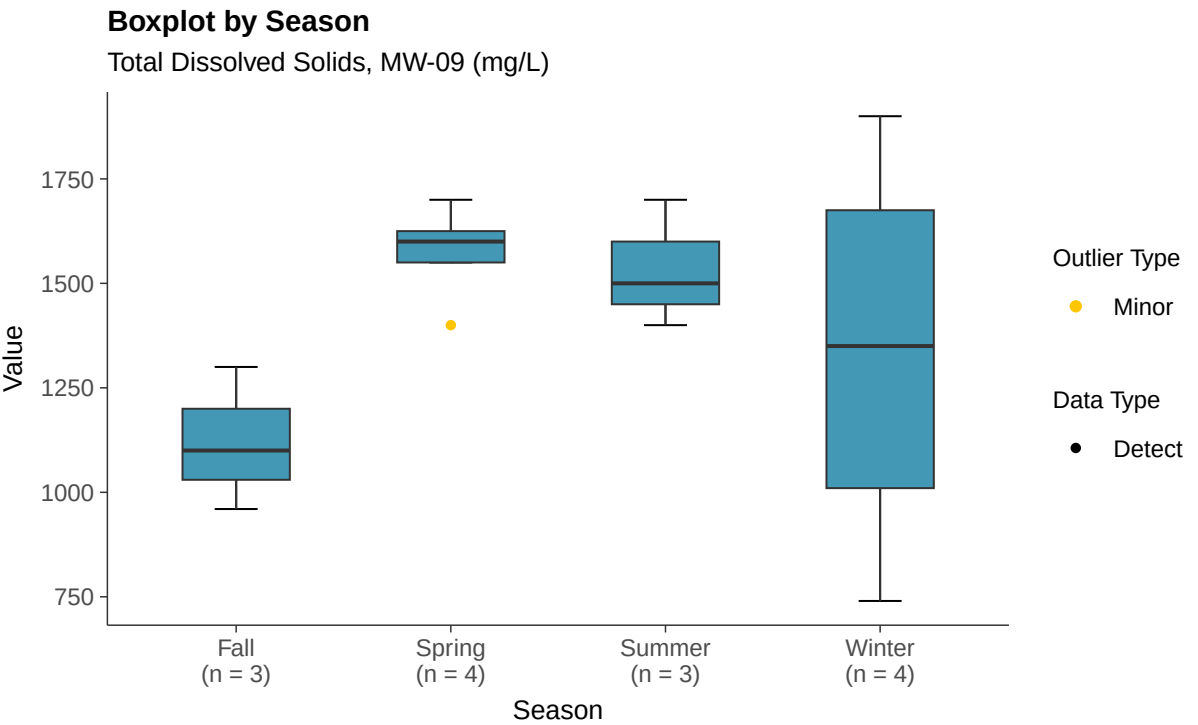
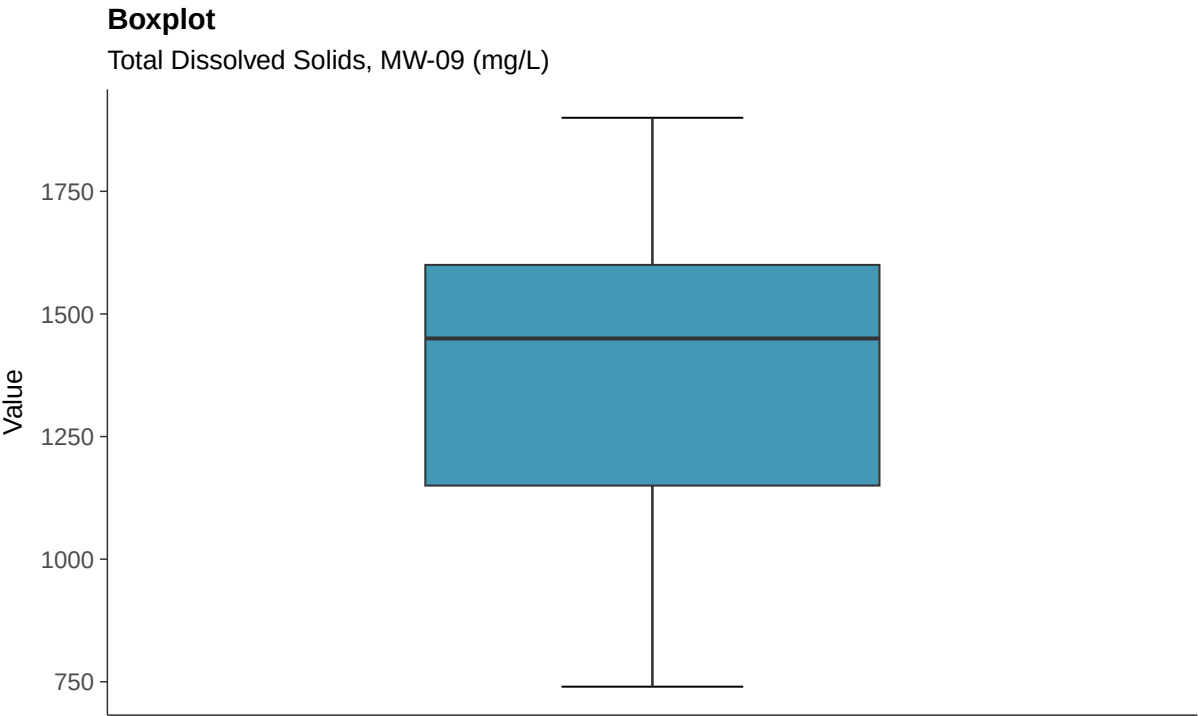


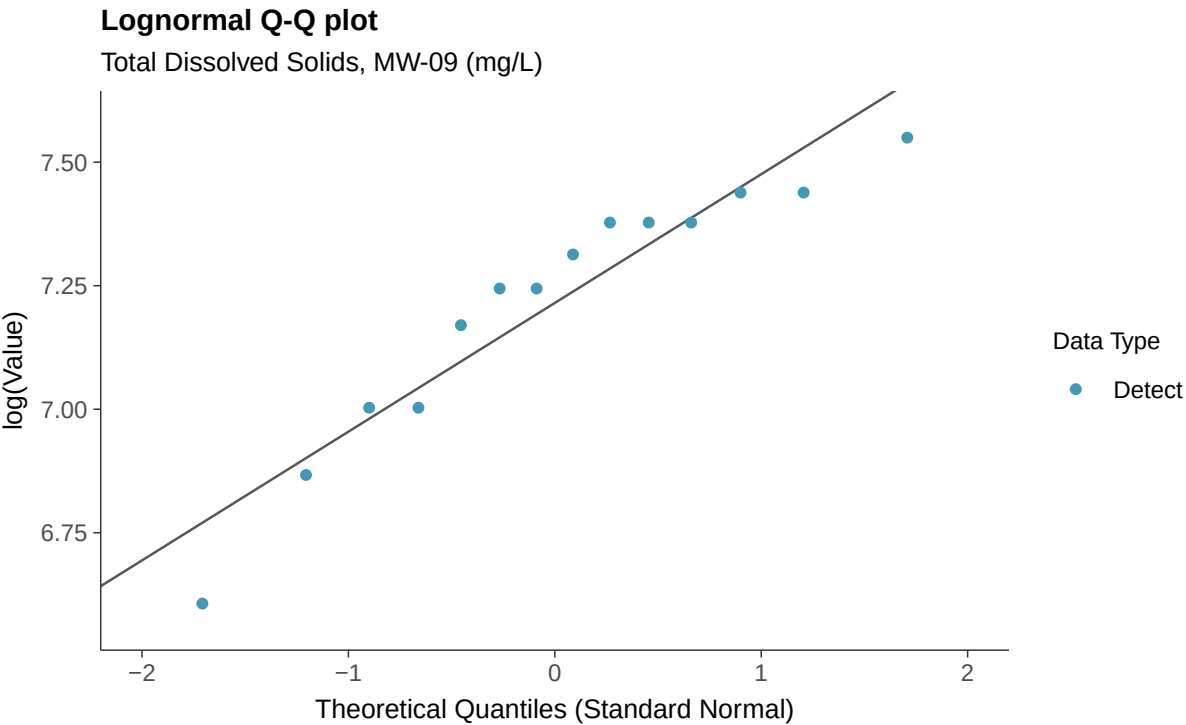
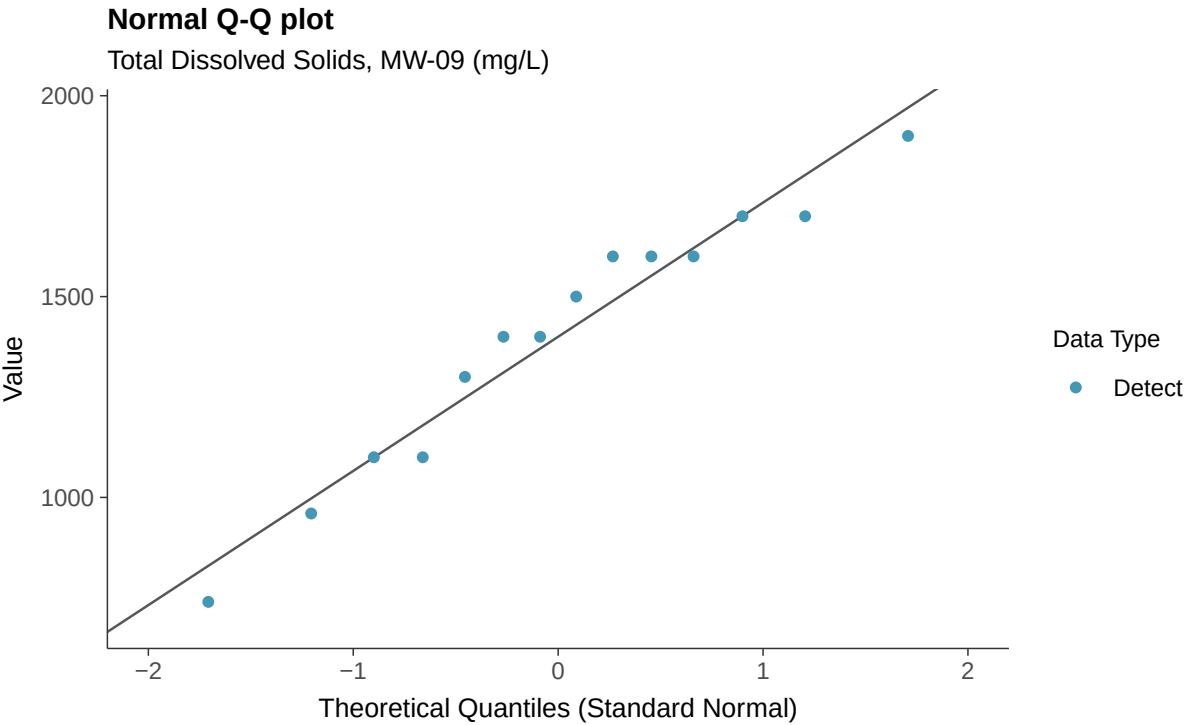


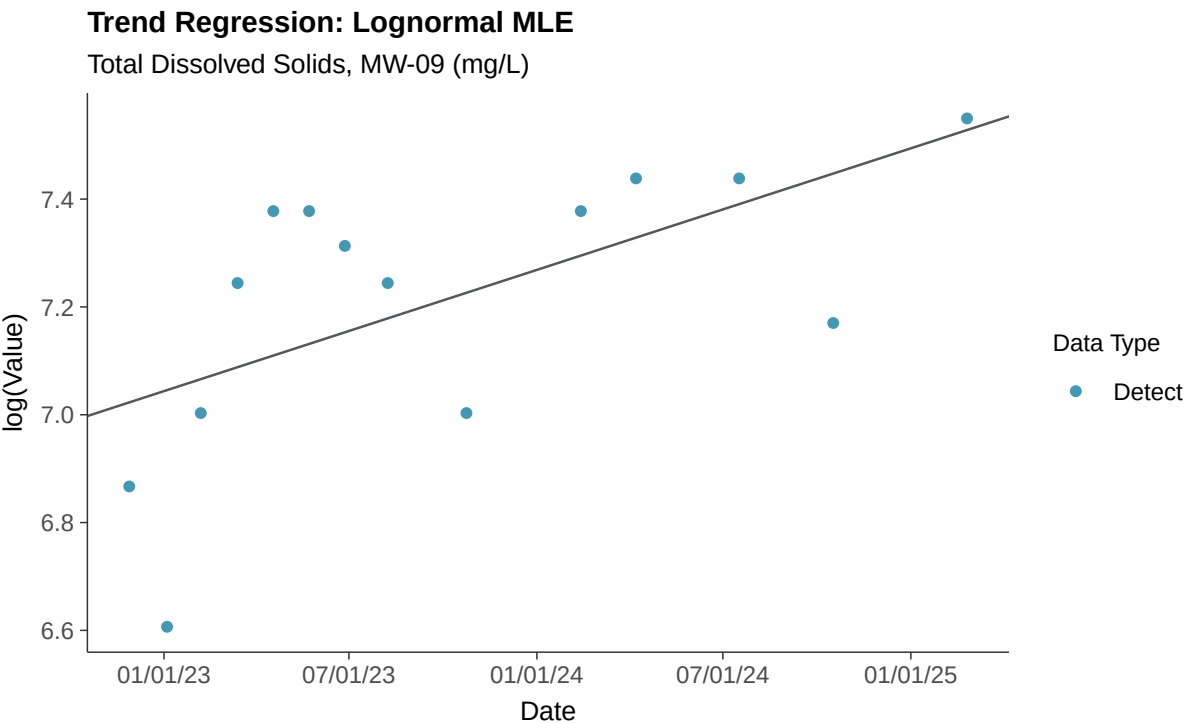
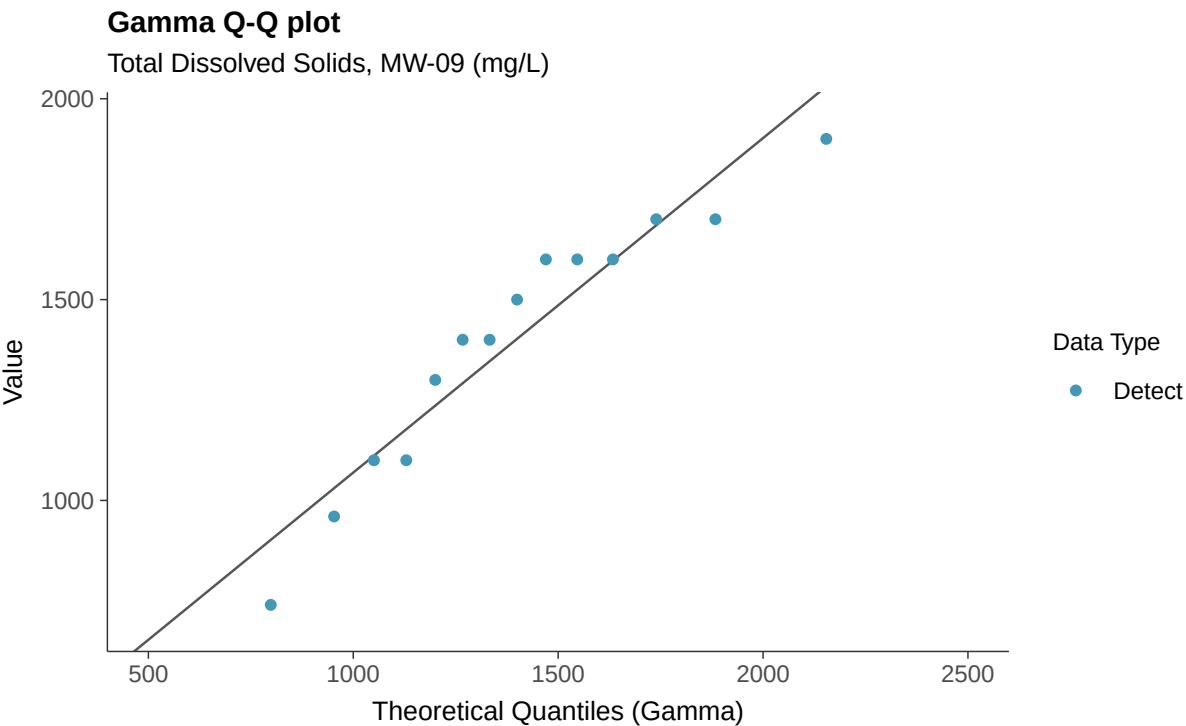
Appendix III: Total Dissolved Solids, MW-09

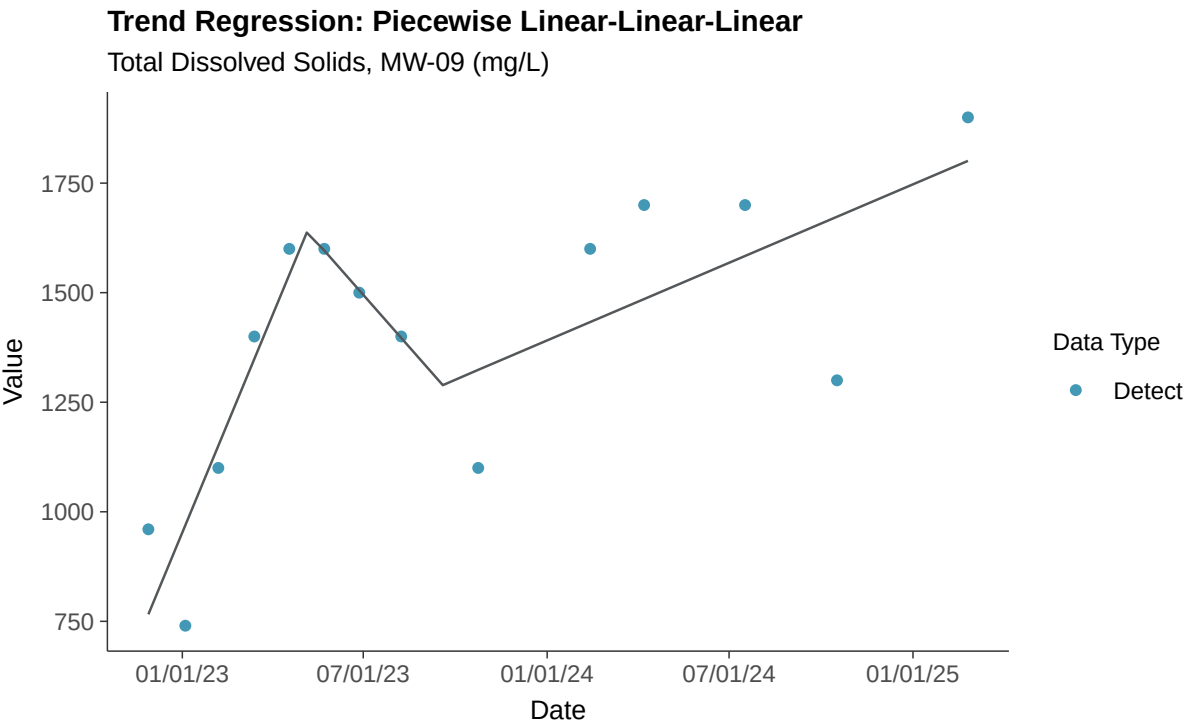
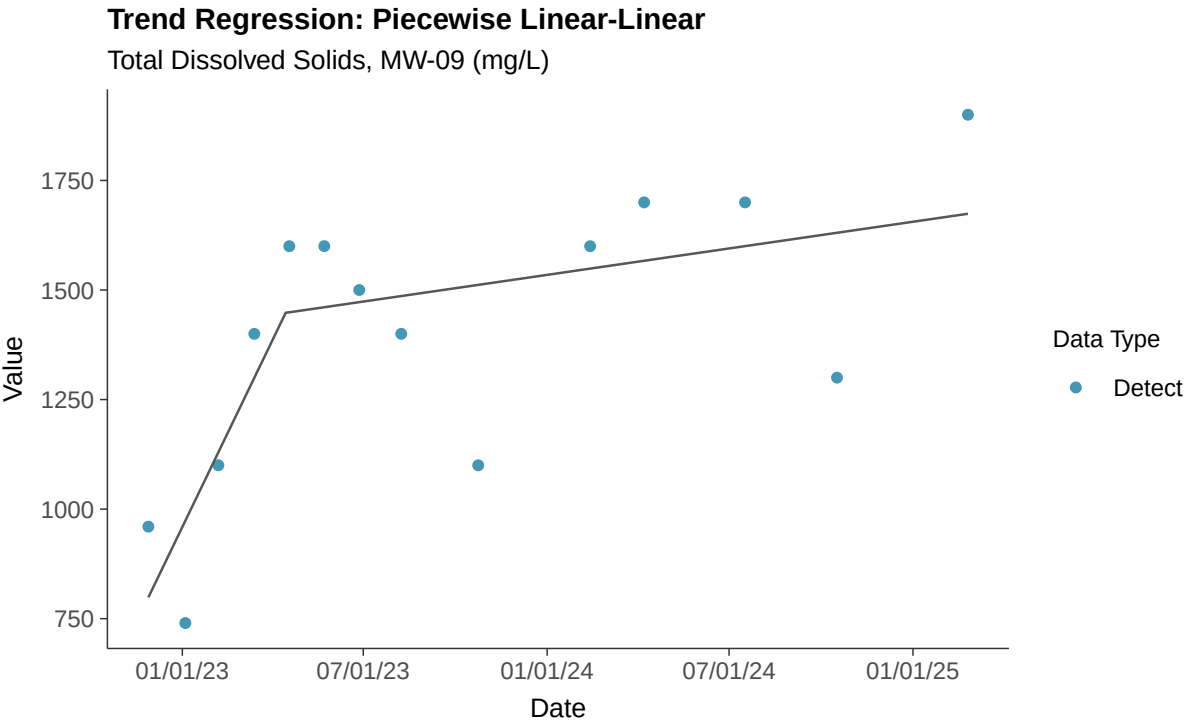
ID: 19_2_3_126







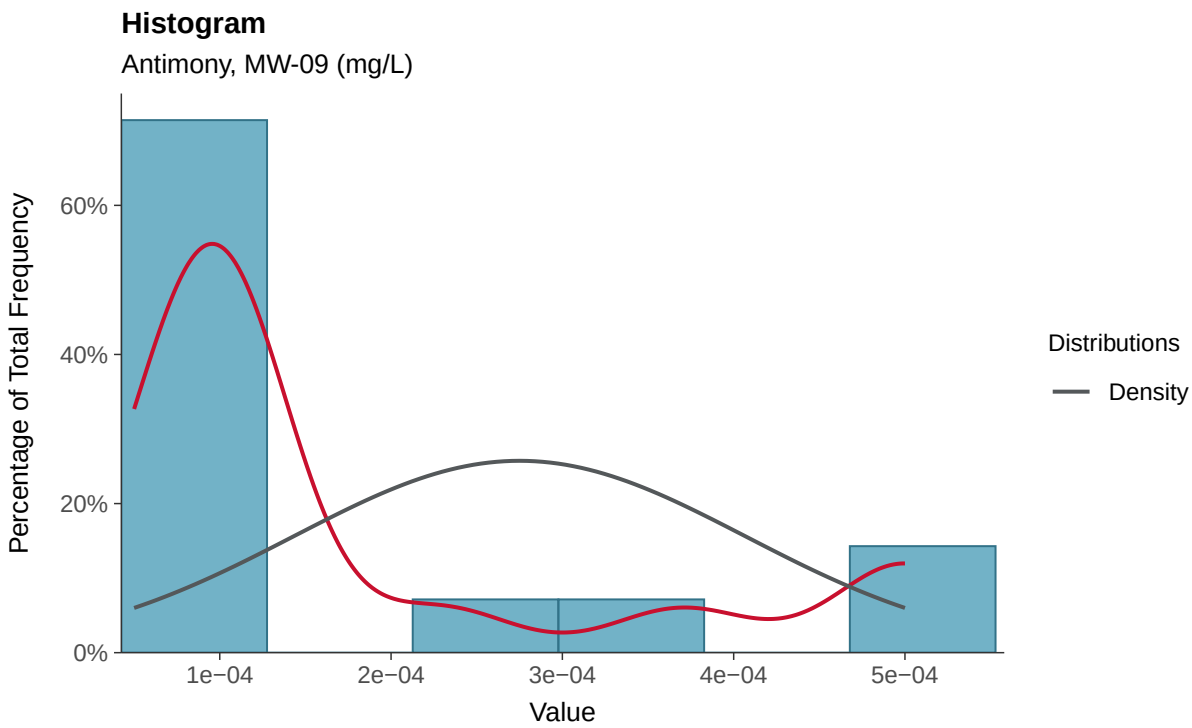
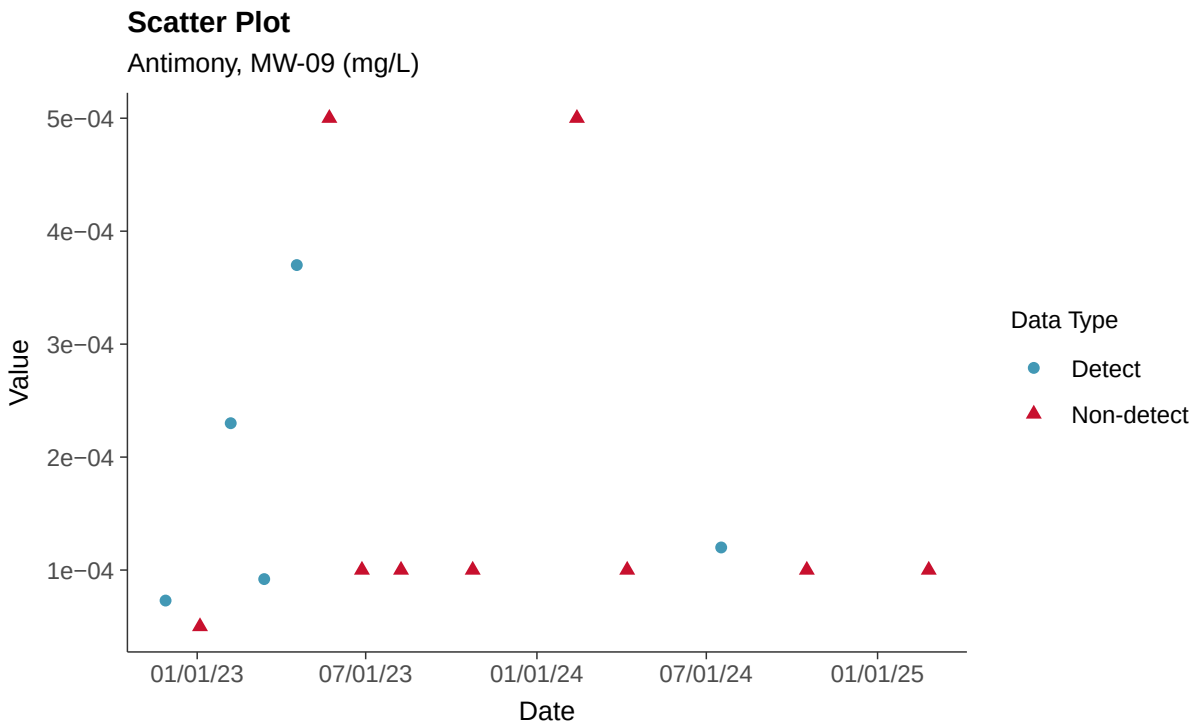


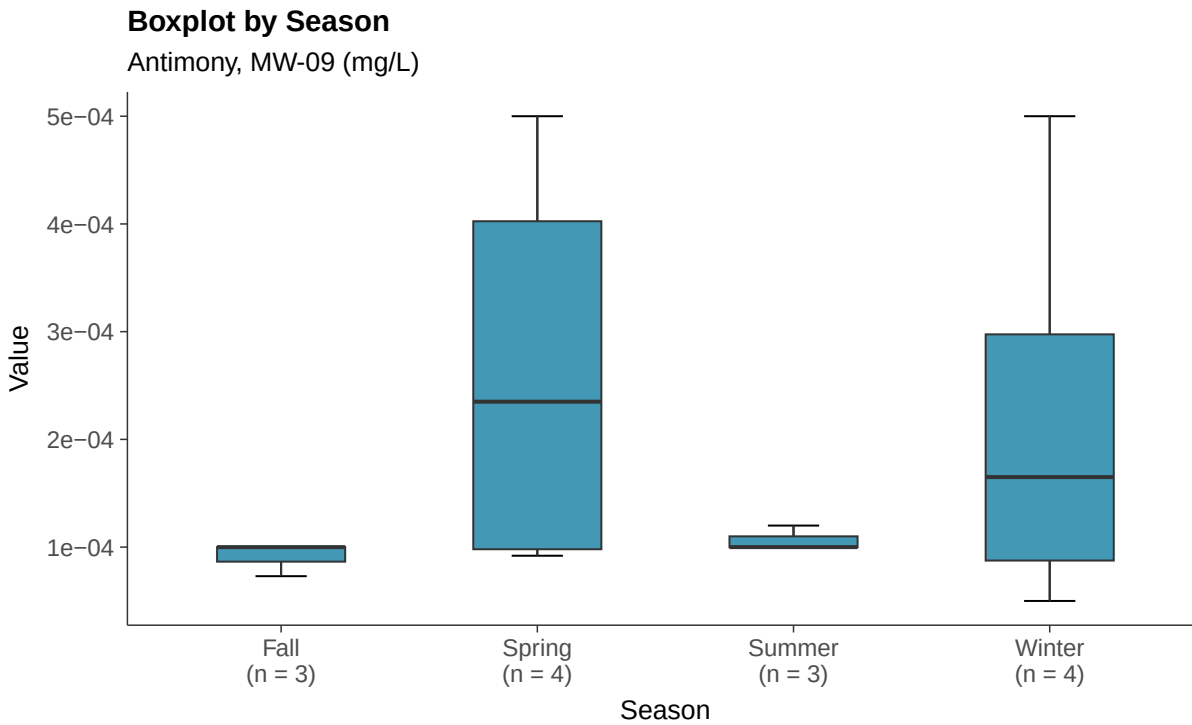
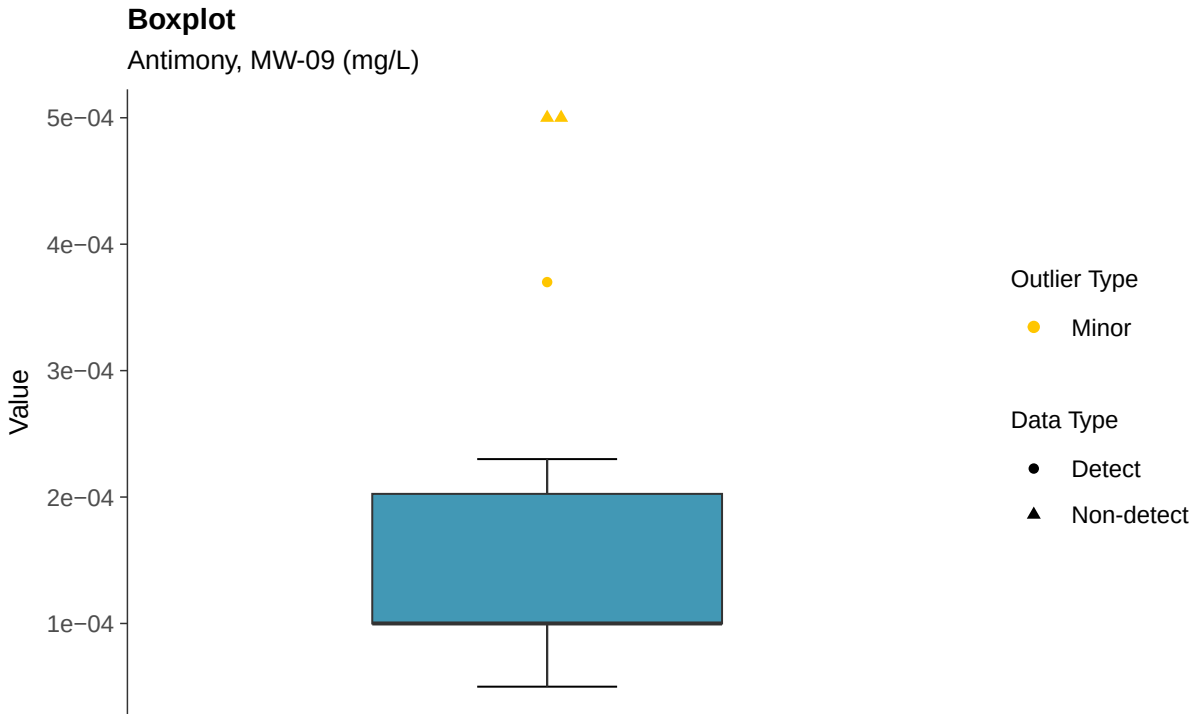




Appendix IV: Antimony, MW-09

ID: 19_2_4_101

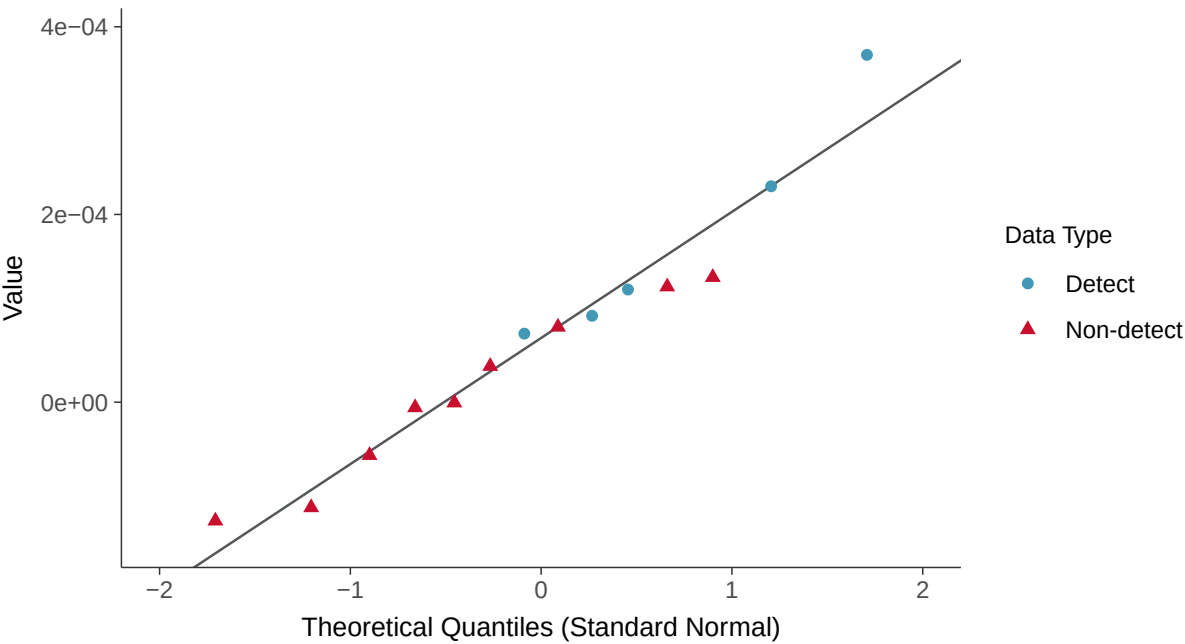






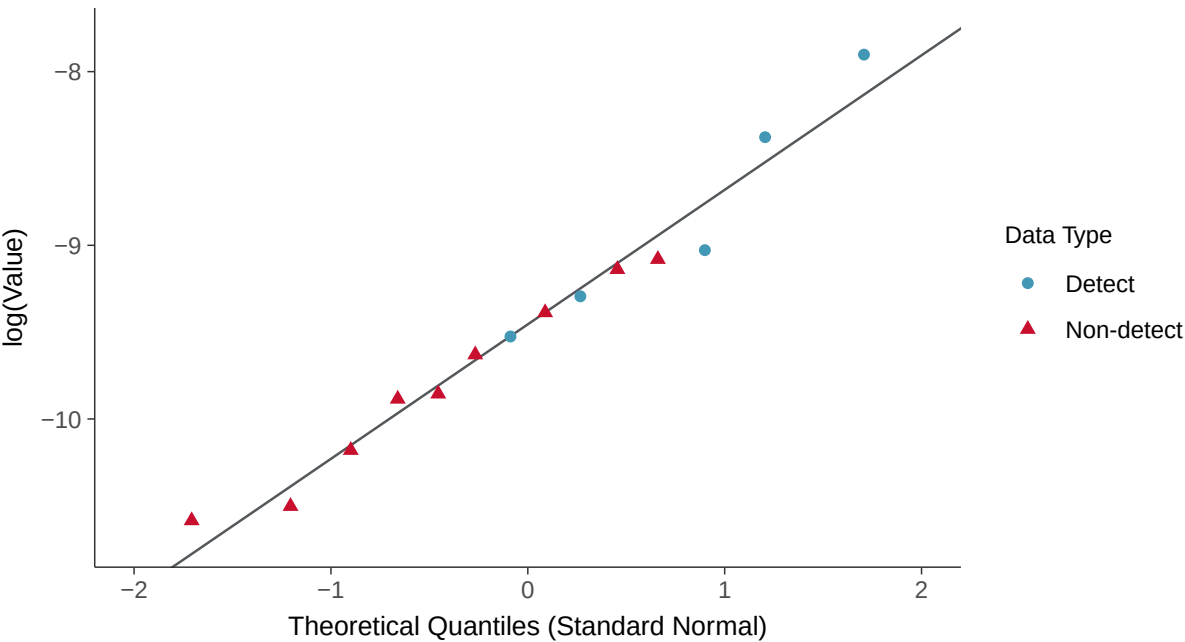
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

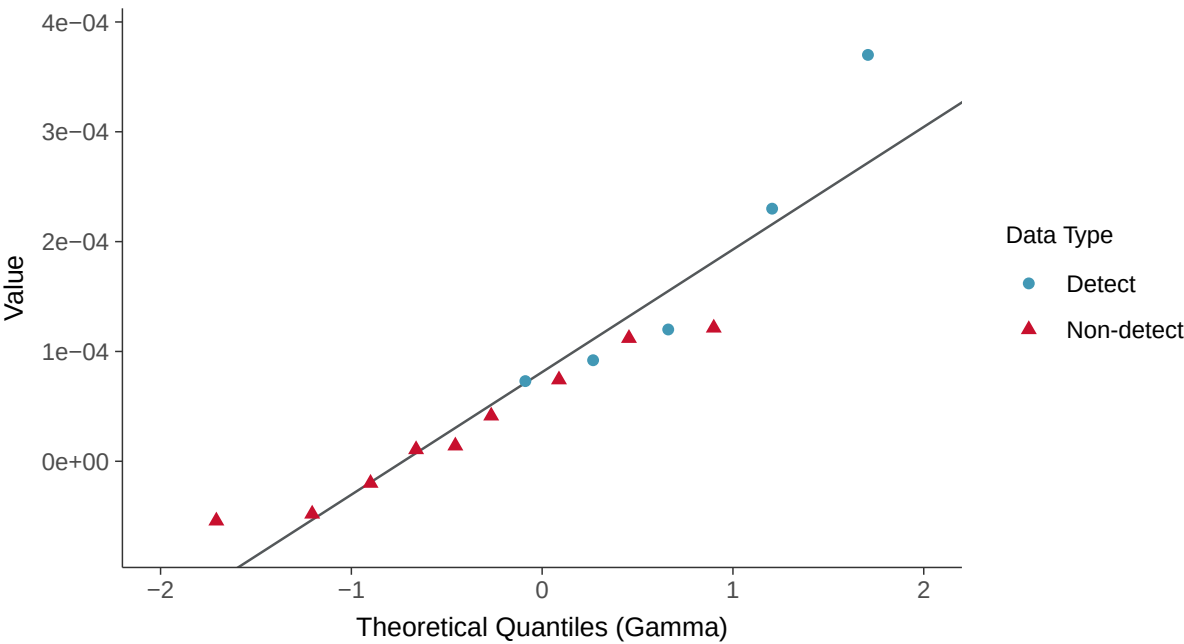
Antimony, MW-09 (mg/L)





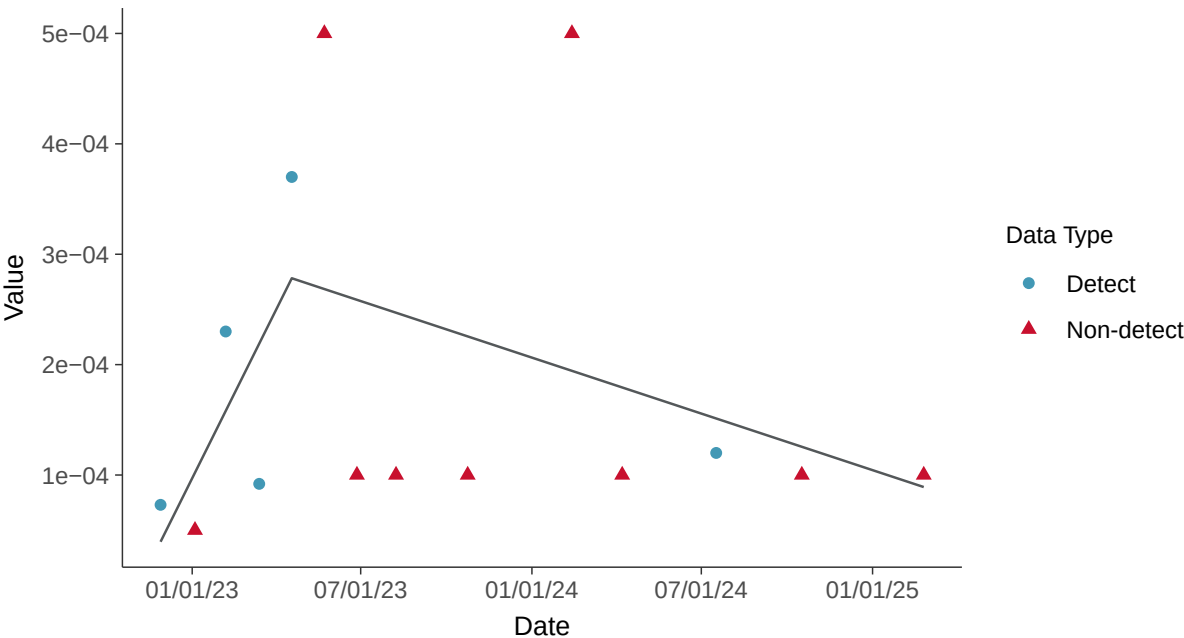
Gamma Q-Q plot using ROS Imputed Estimates

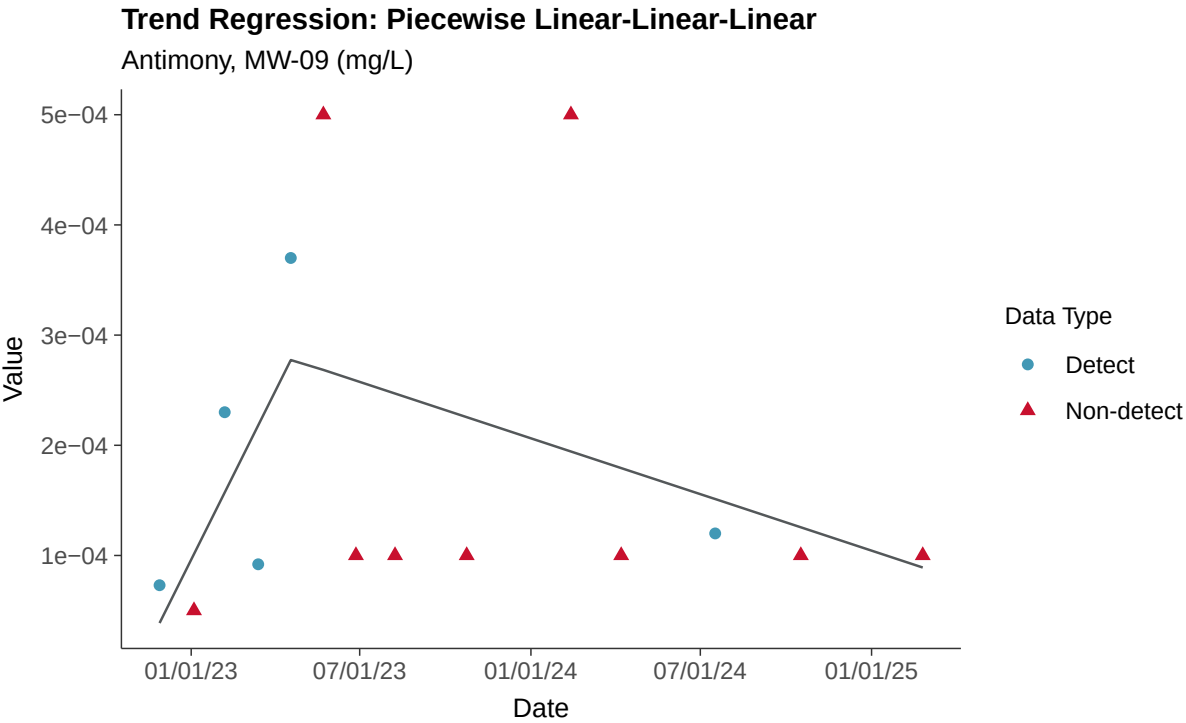
Antimony, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-09 (mg/L)

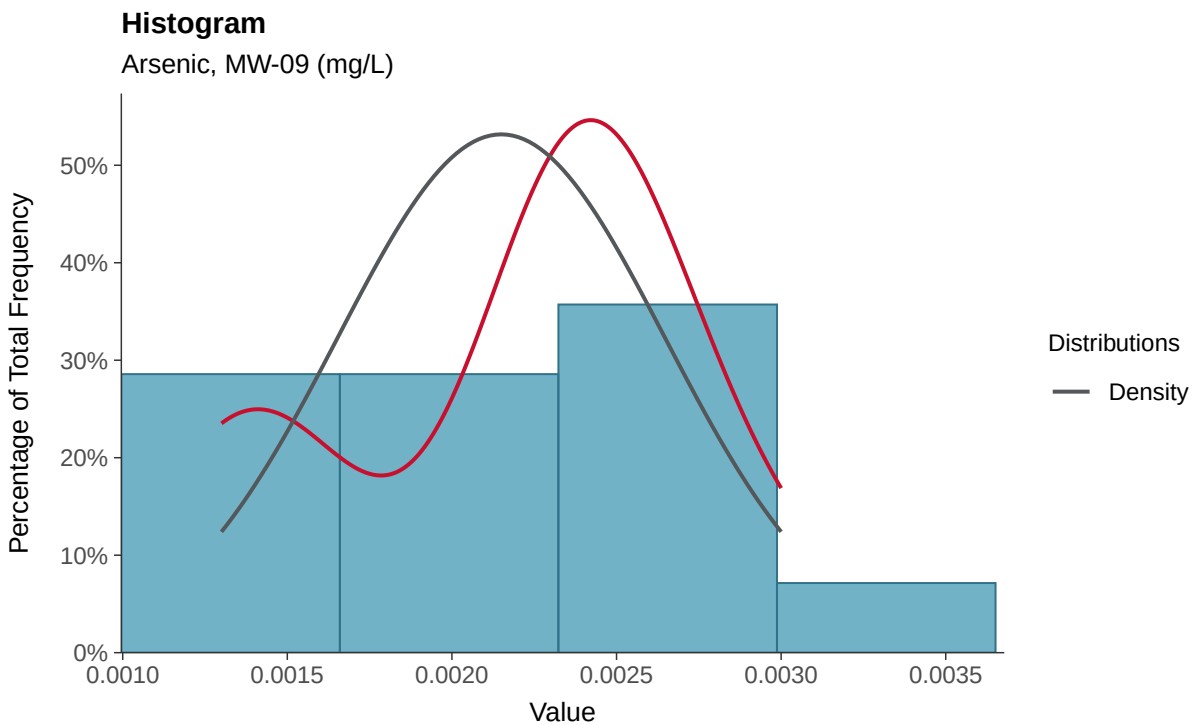
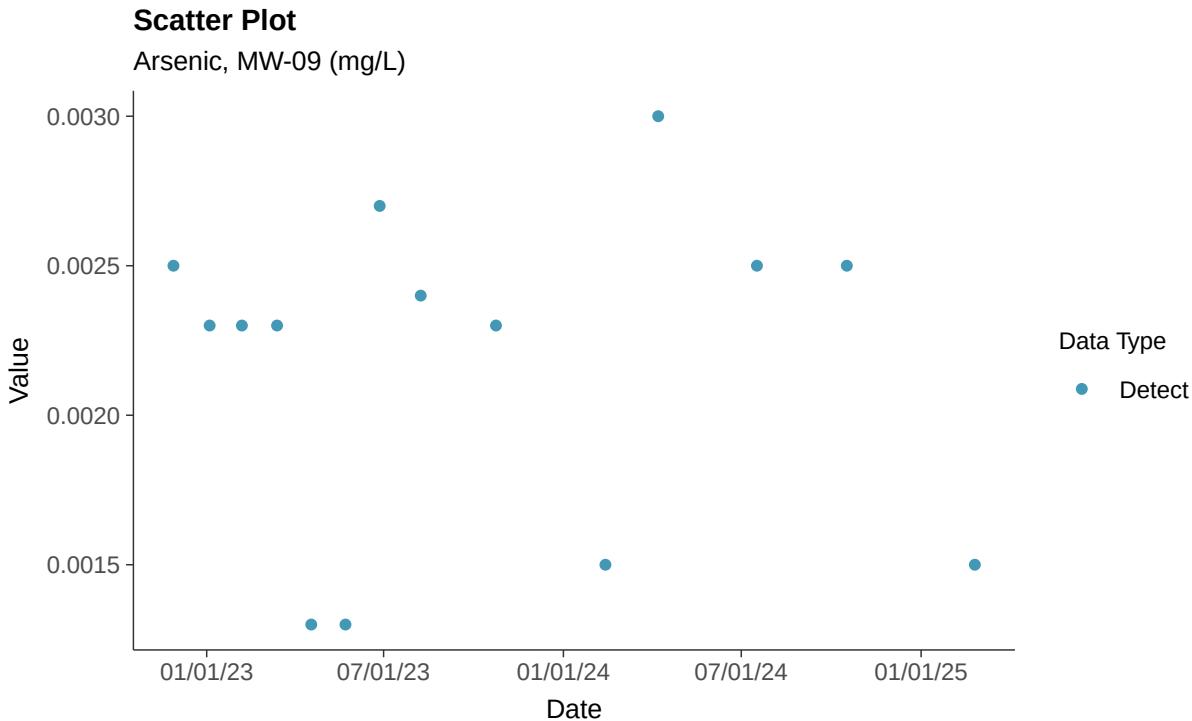


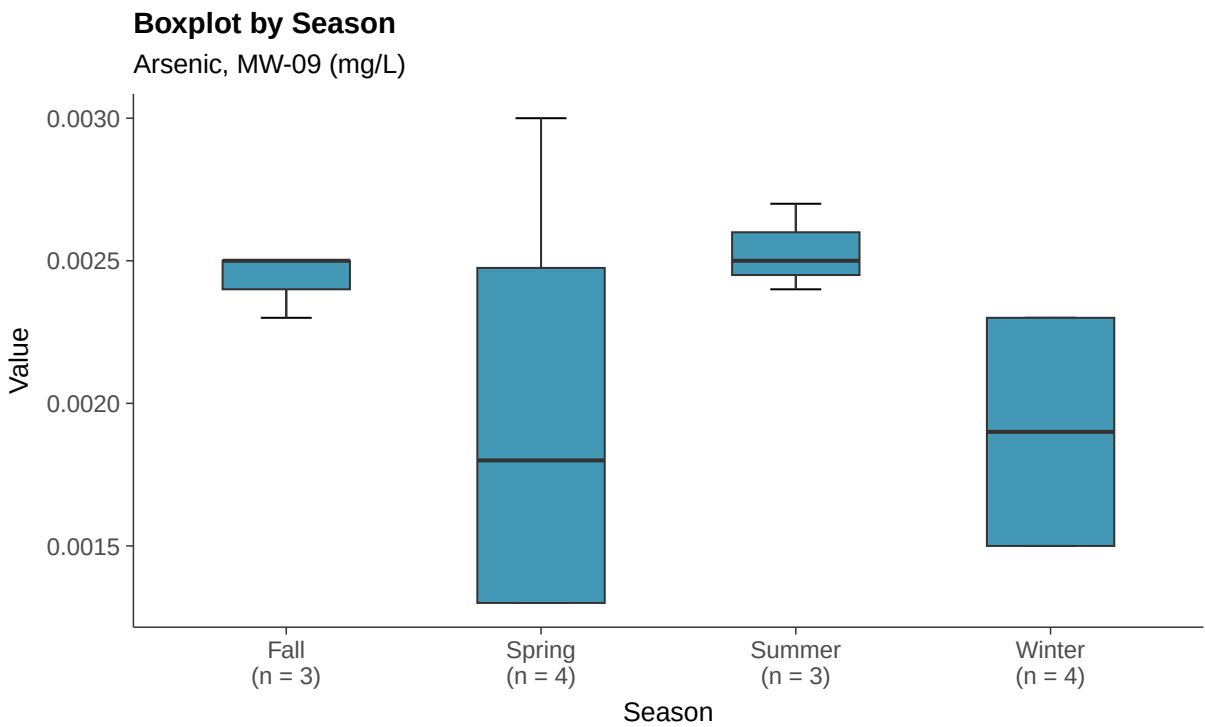
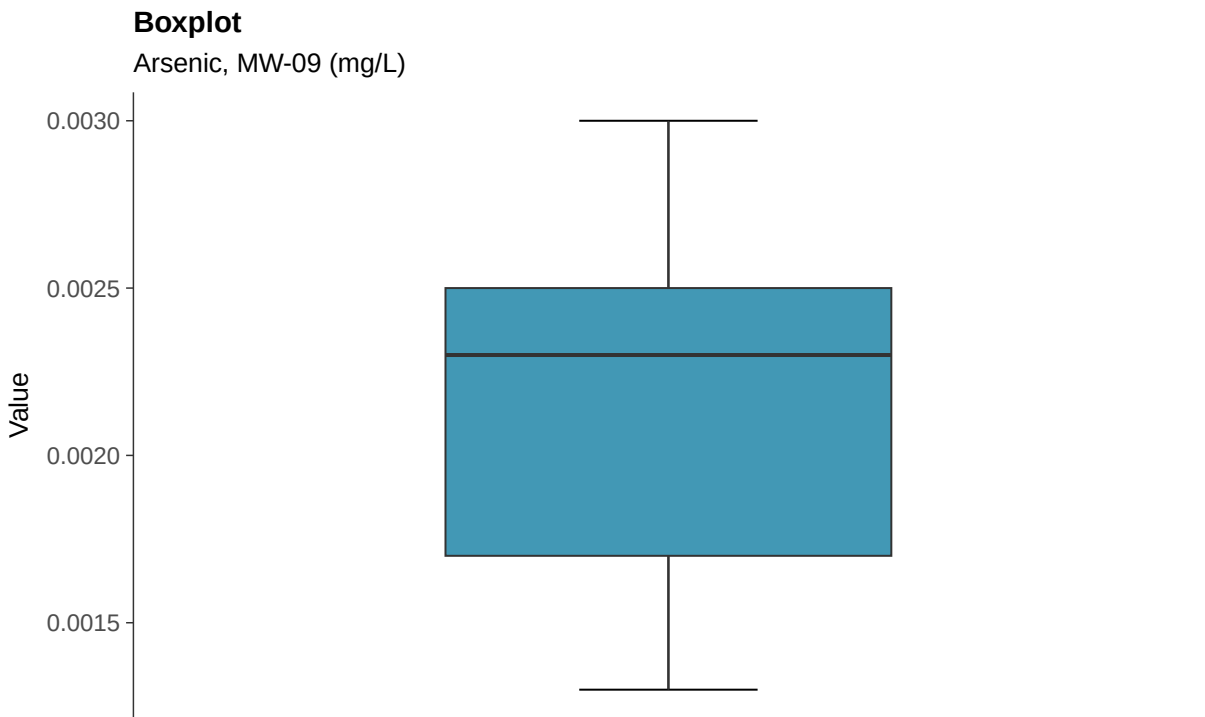


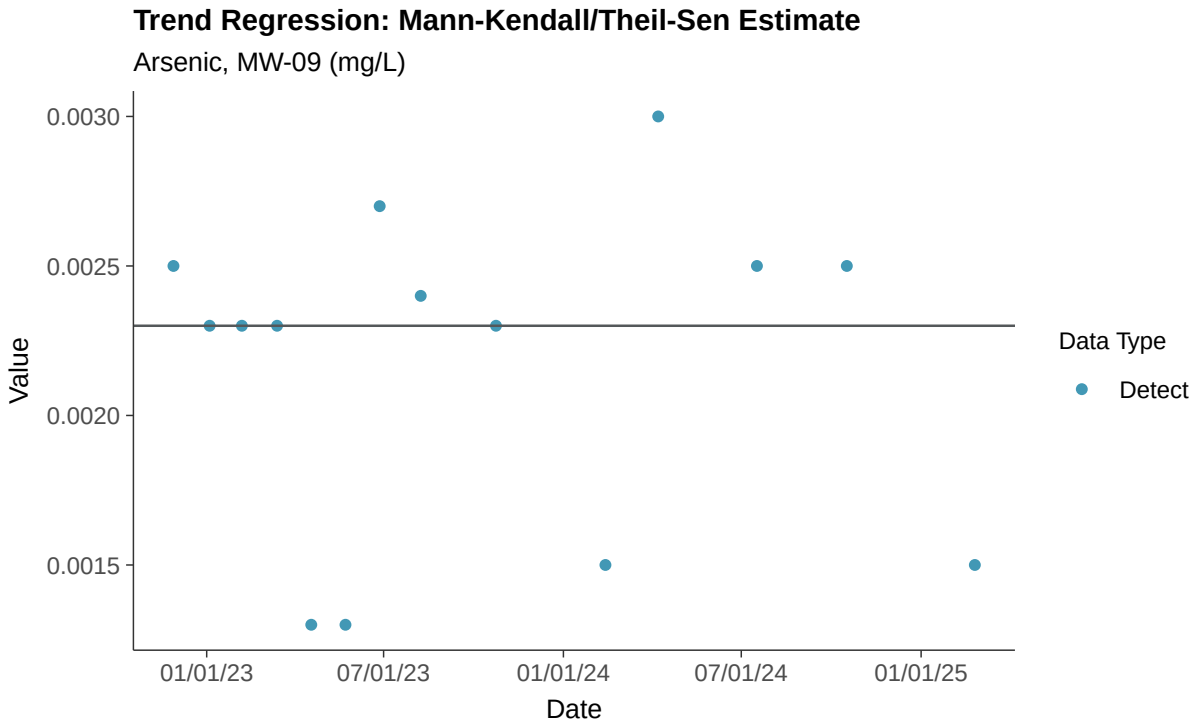
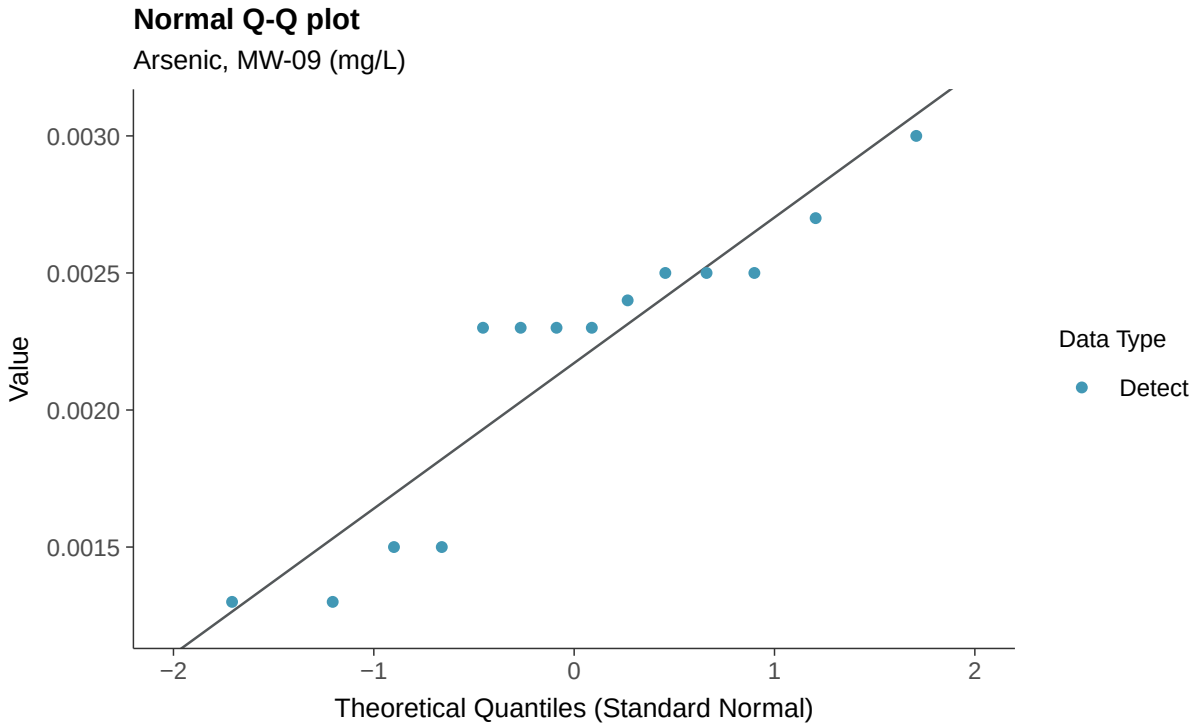


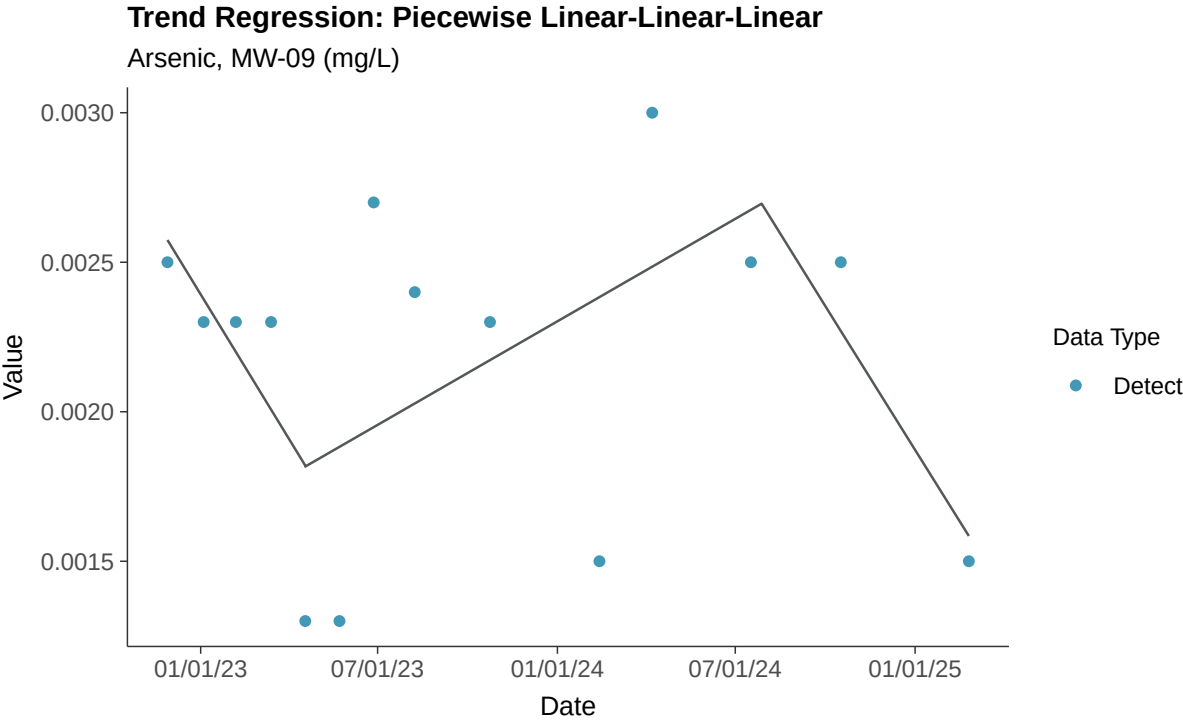
Appendix IV: Arsenic, MW-09

ID: 19_2_4_102





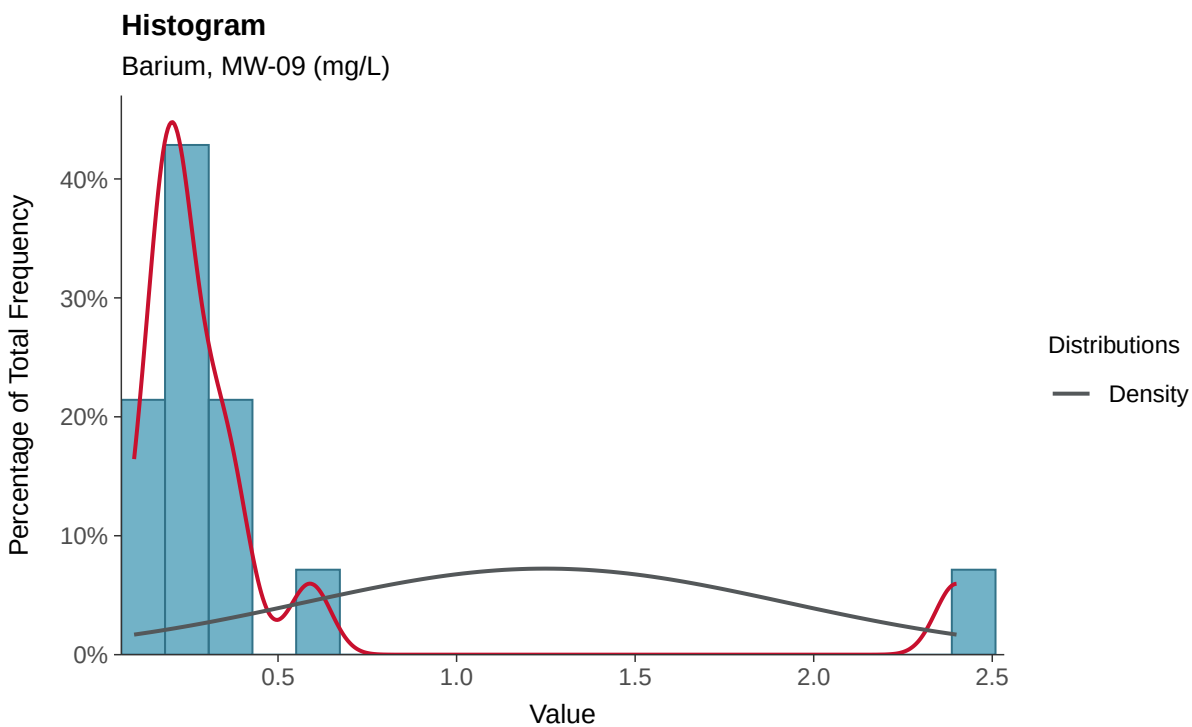
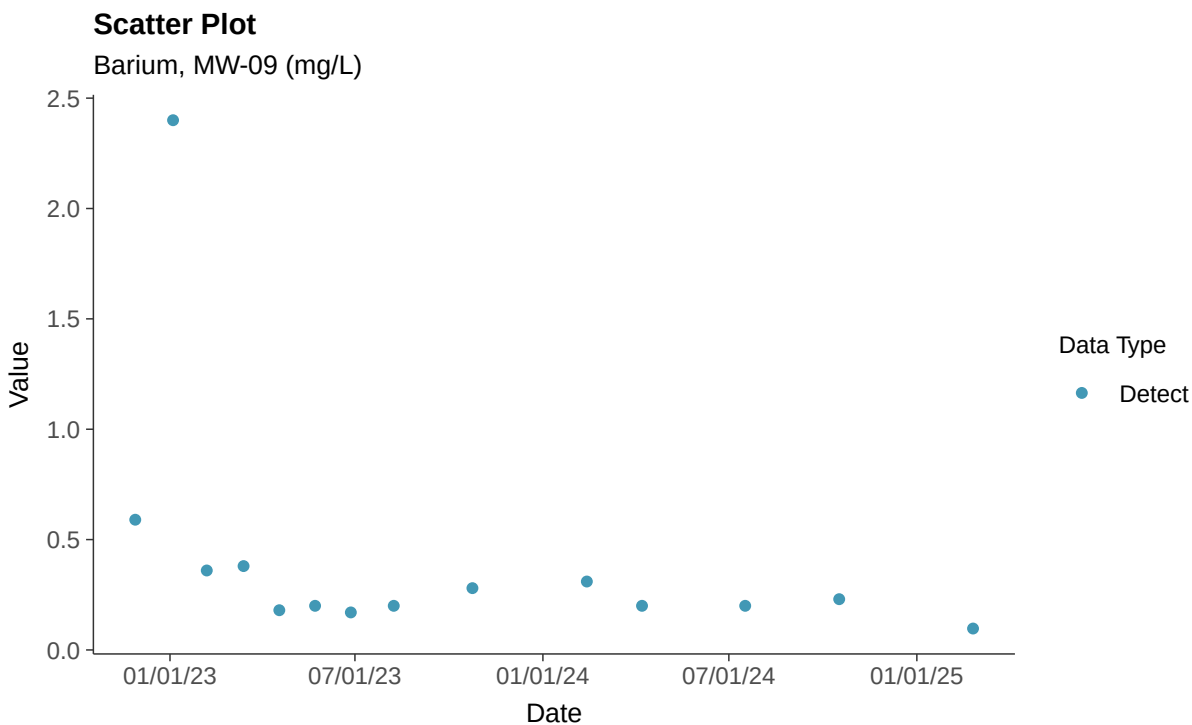


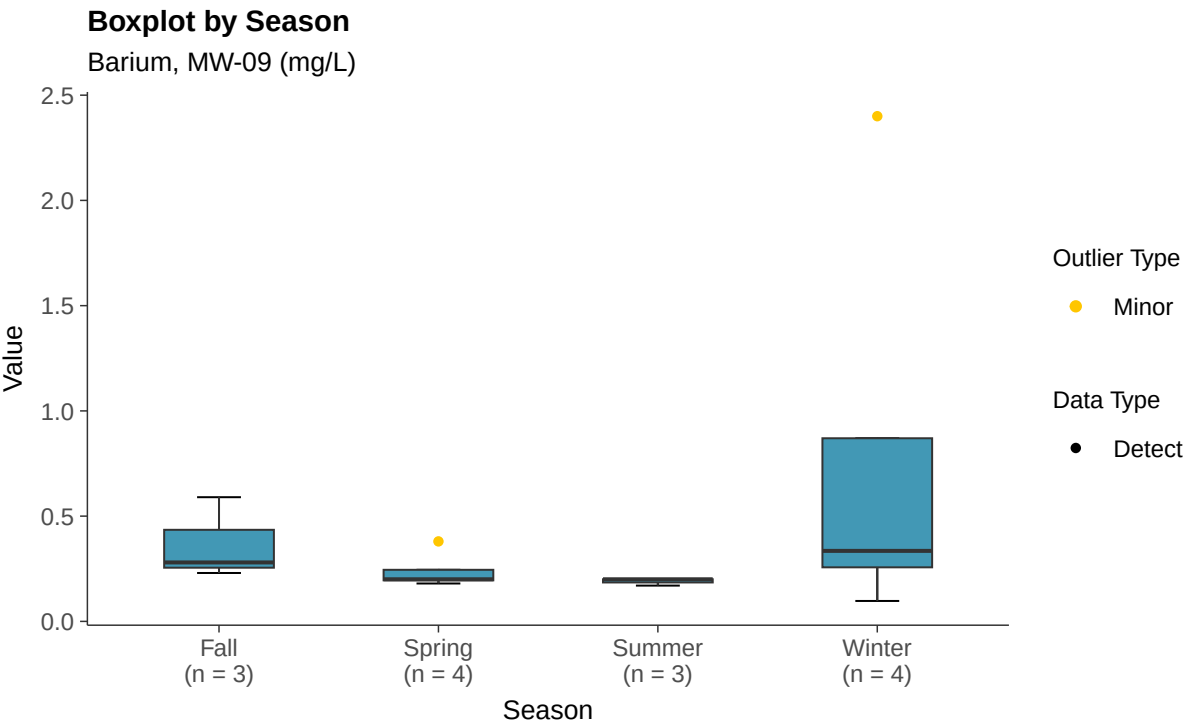
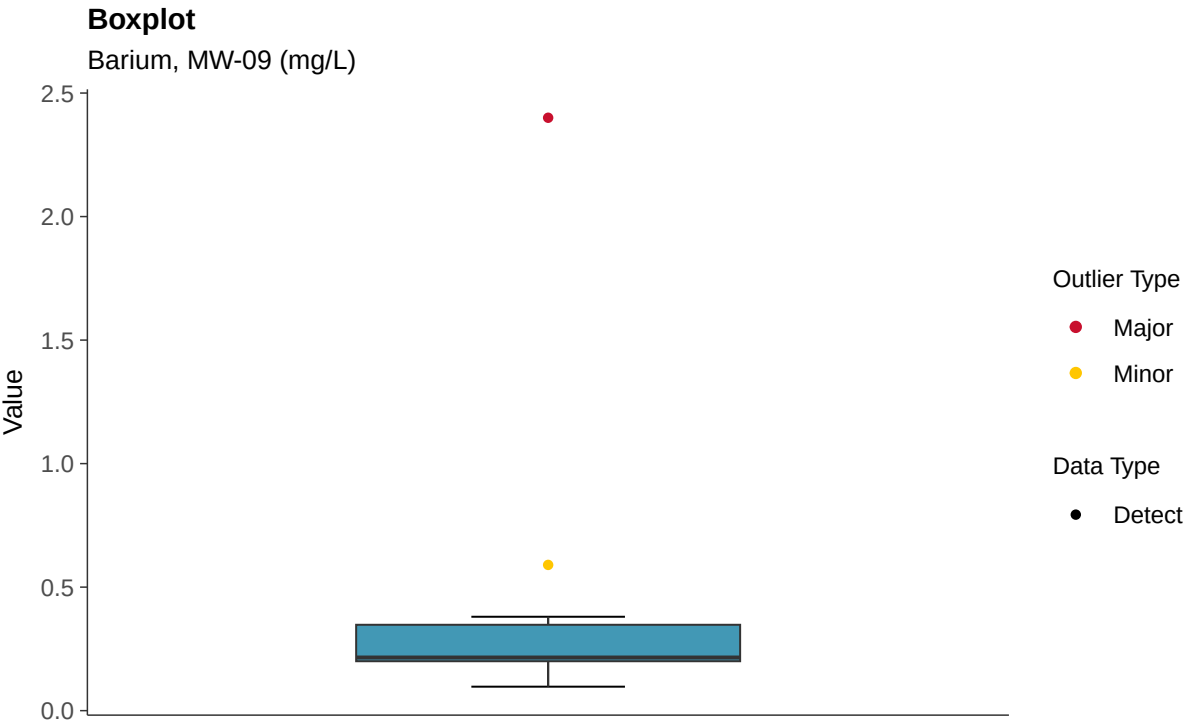


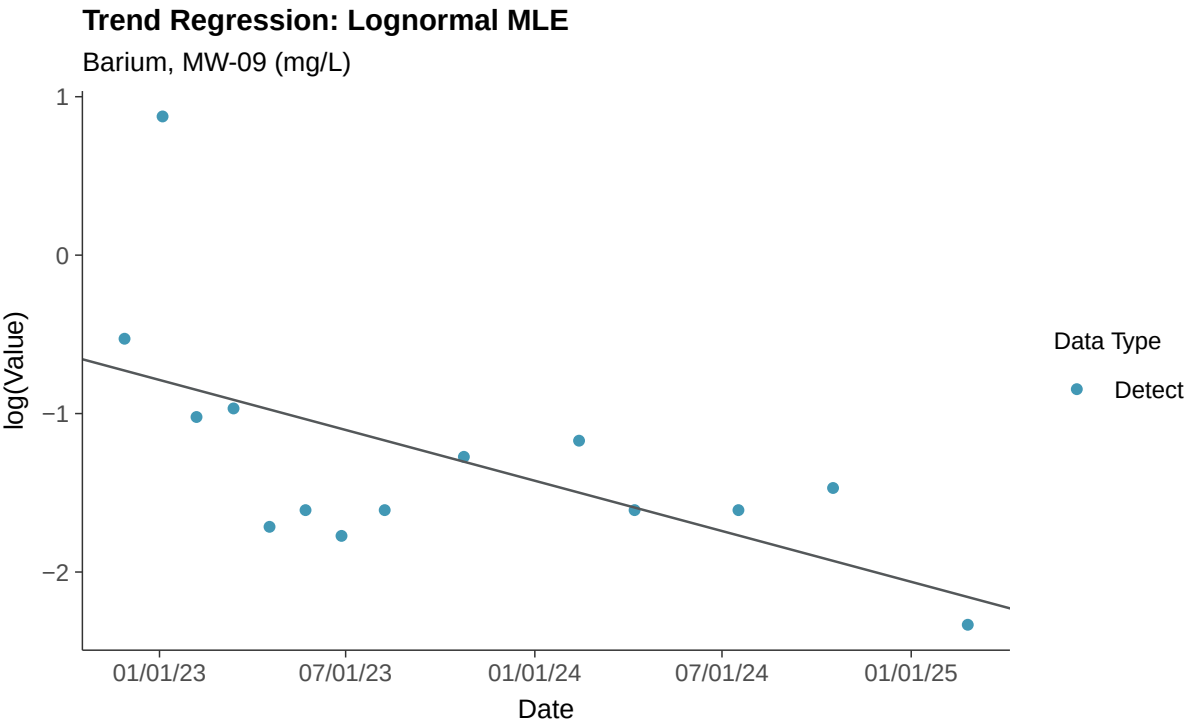
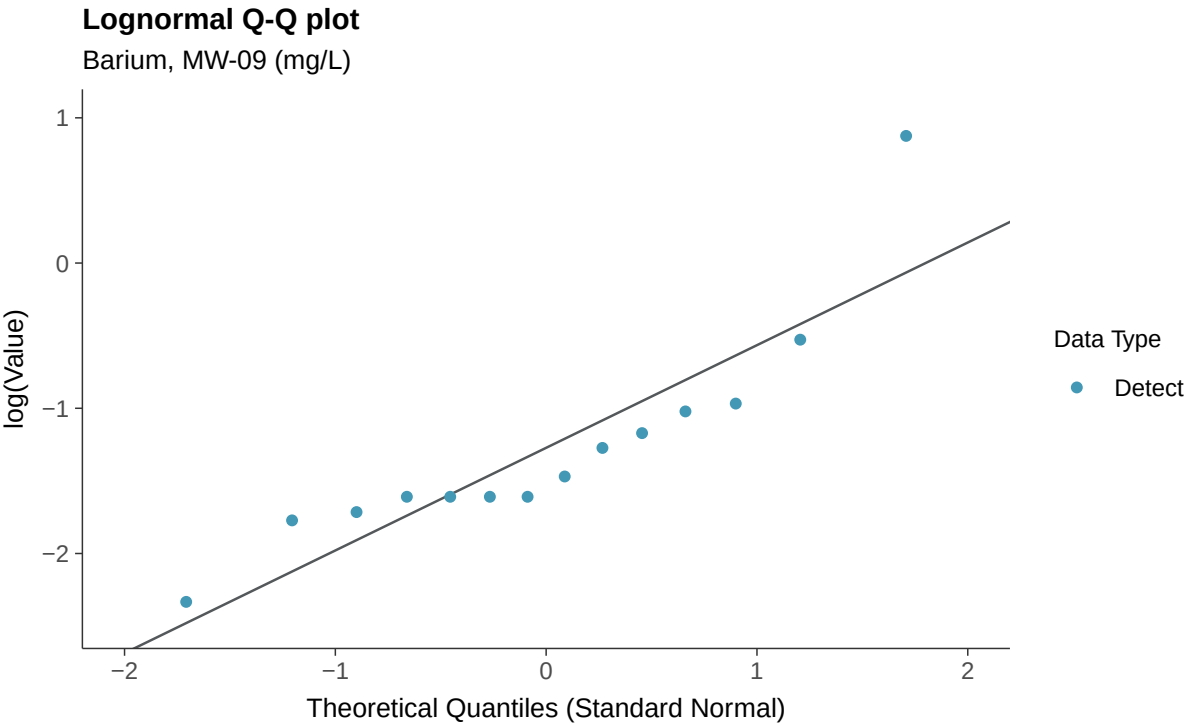


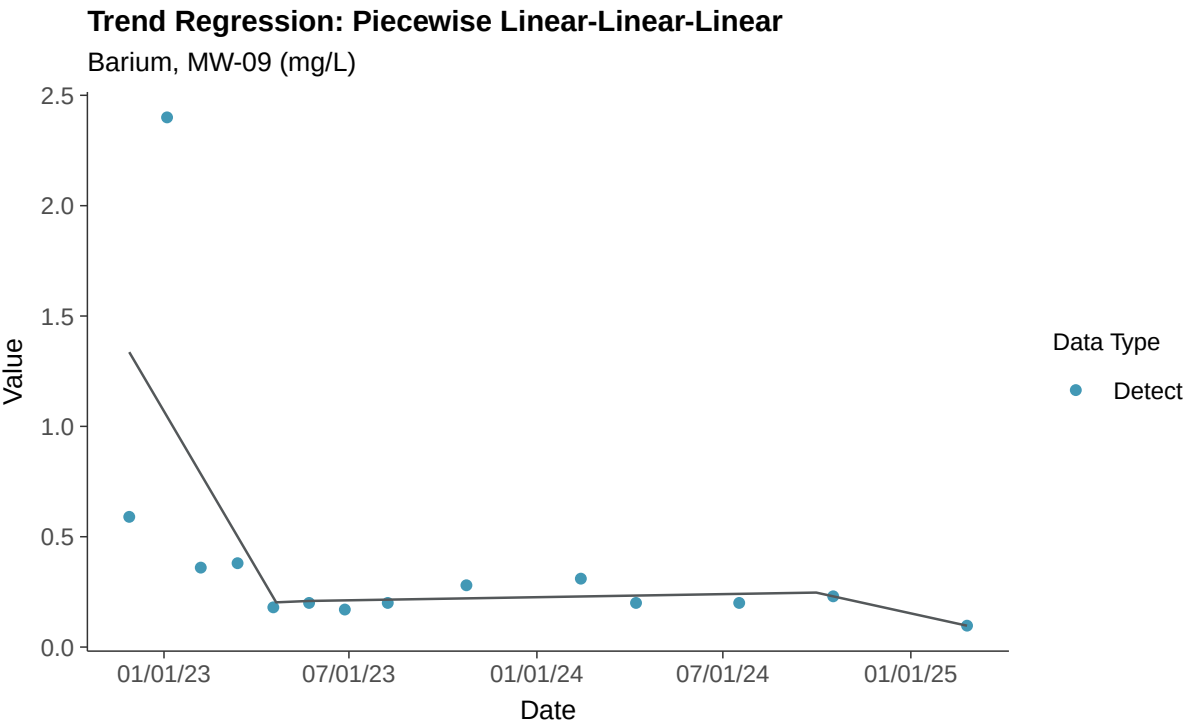
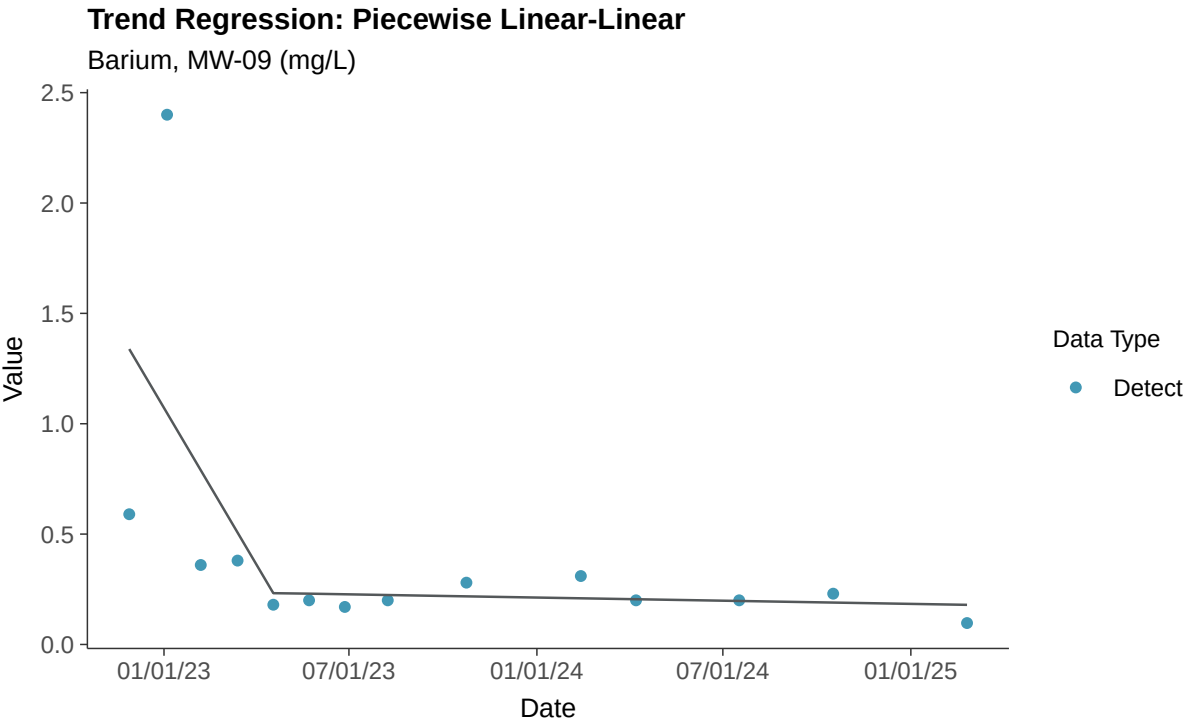
Appendix IV: Barium, MW-09

ID: 19_2_4_103





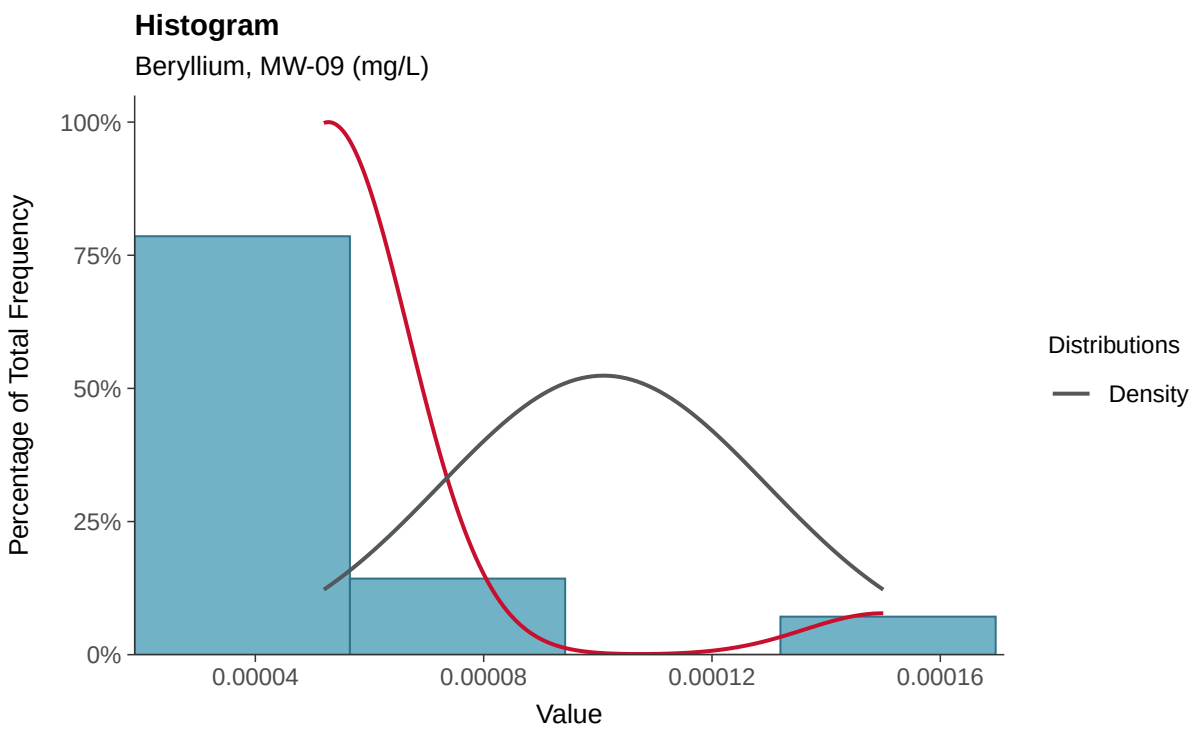
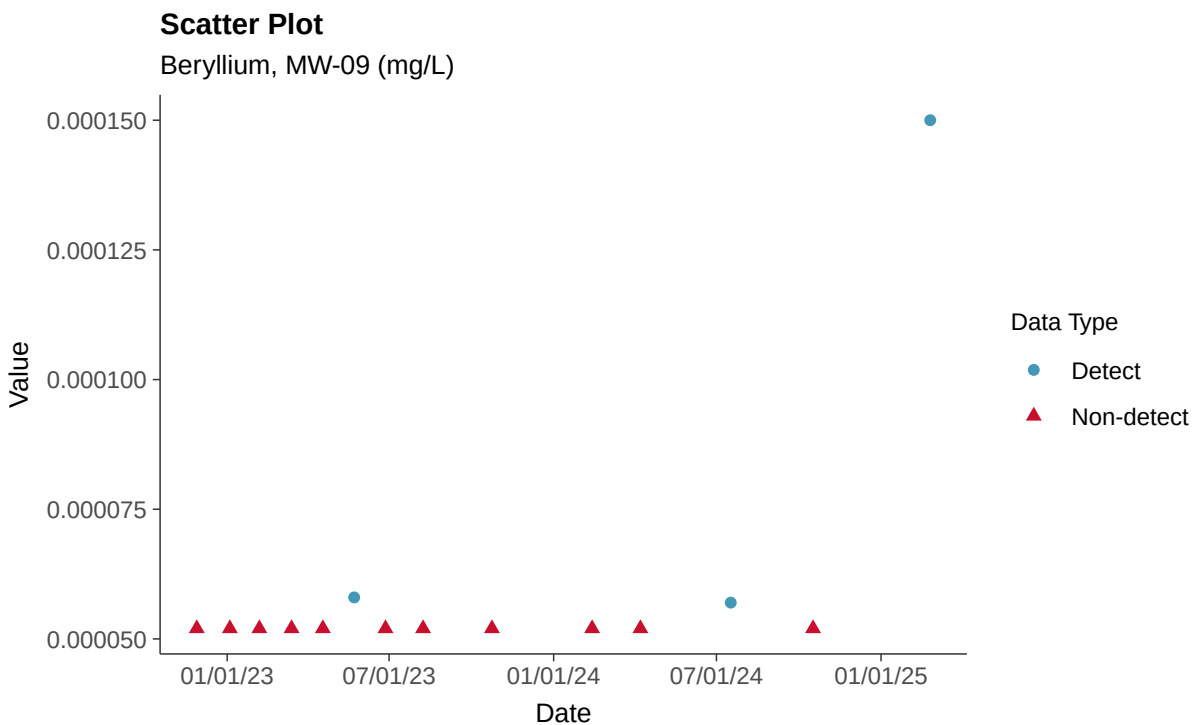


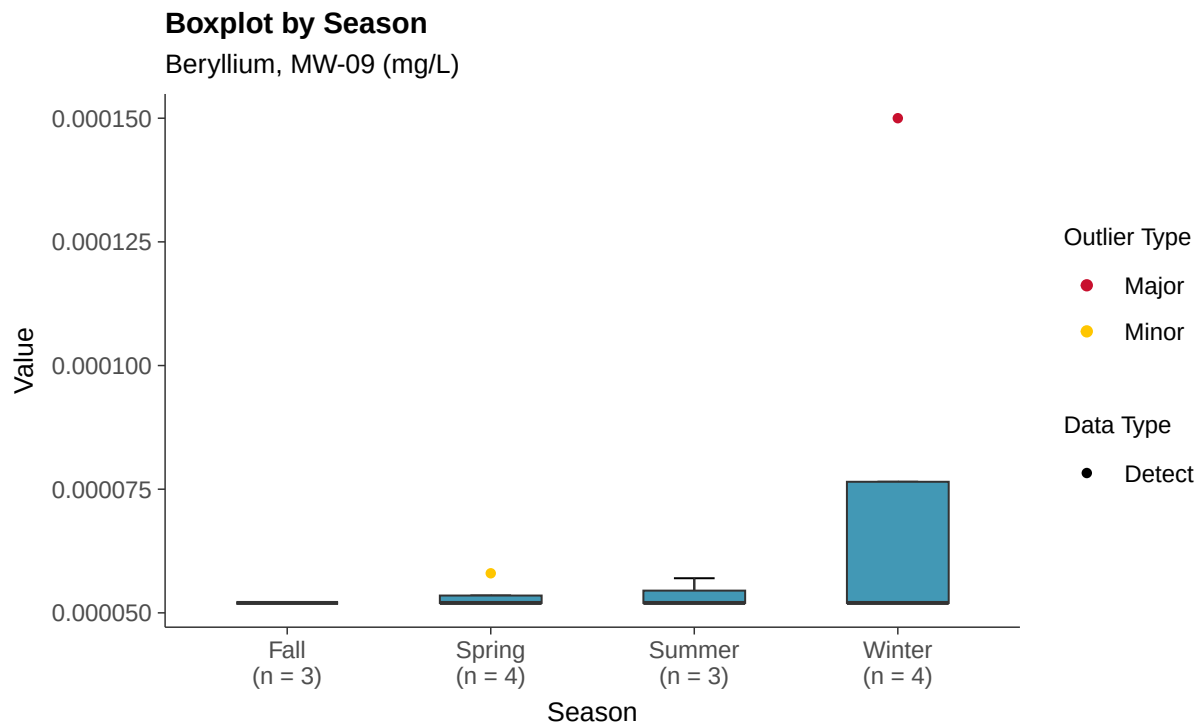


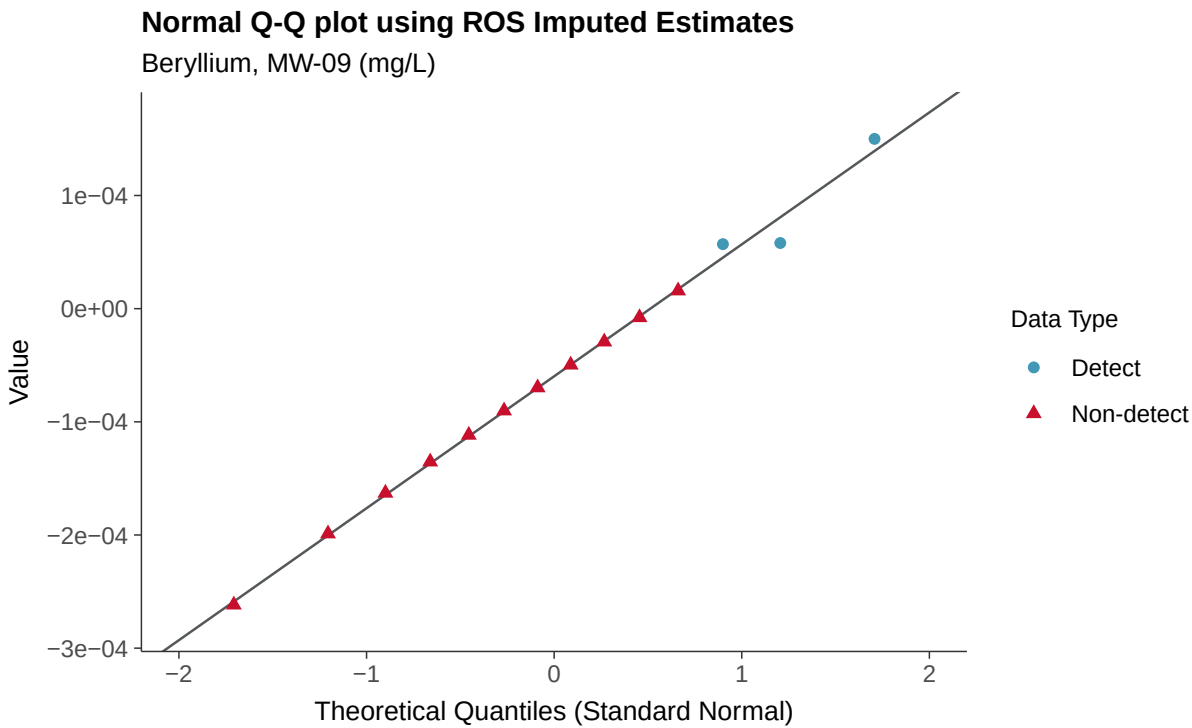


Appendix IV: Beryllium, MW-09

ID: 19_2_4_104



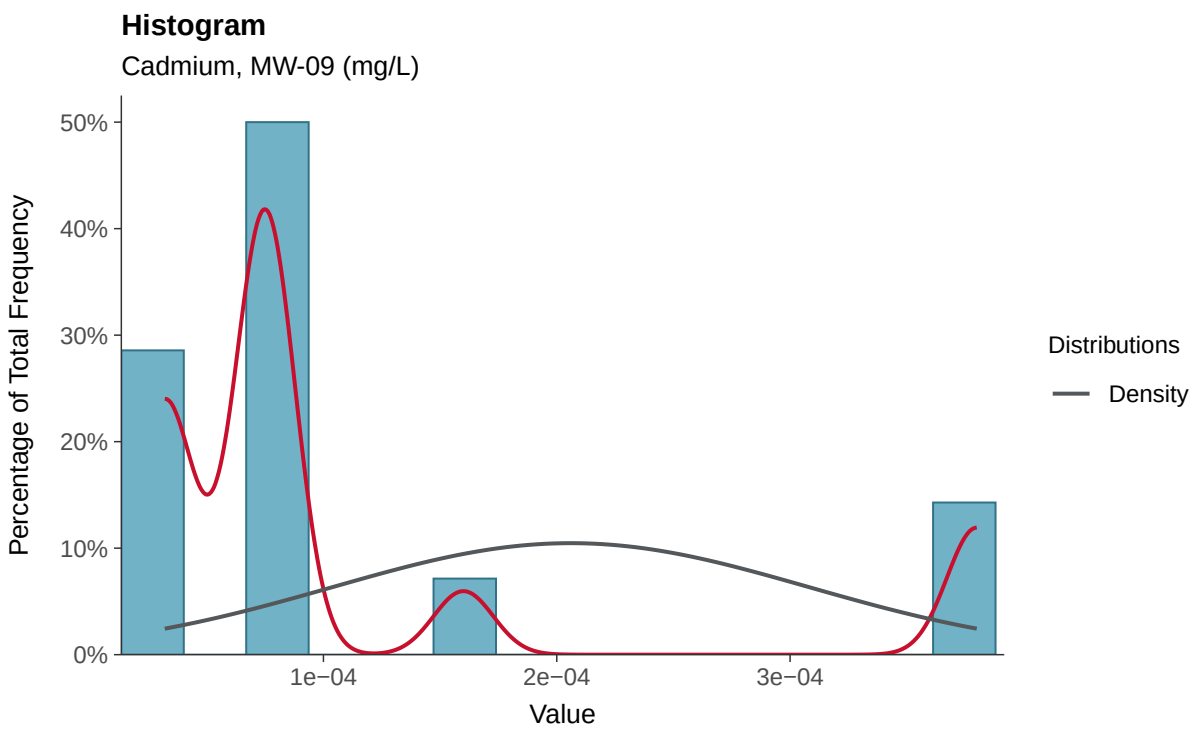
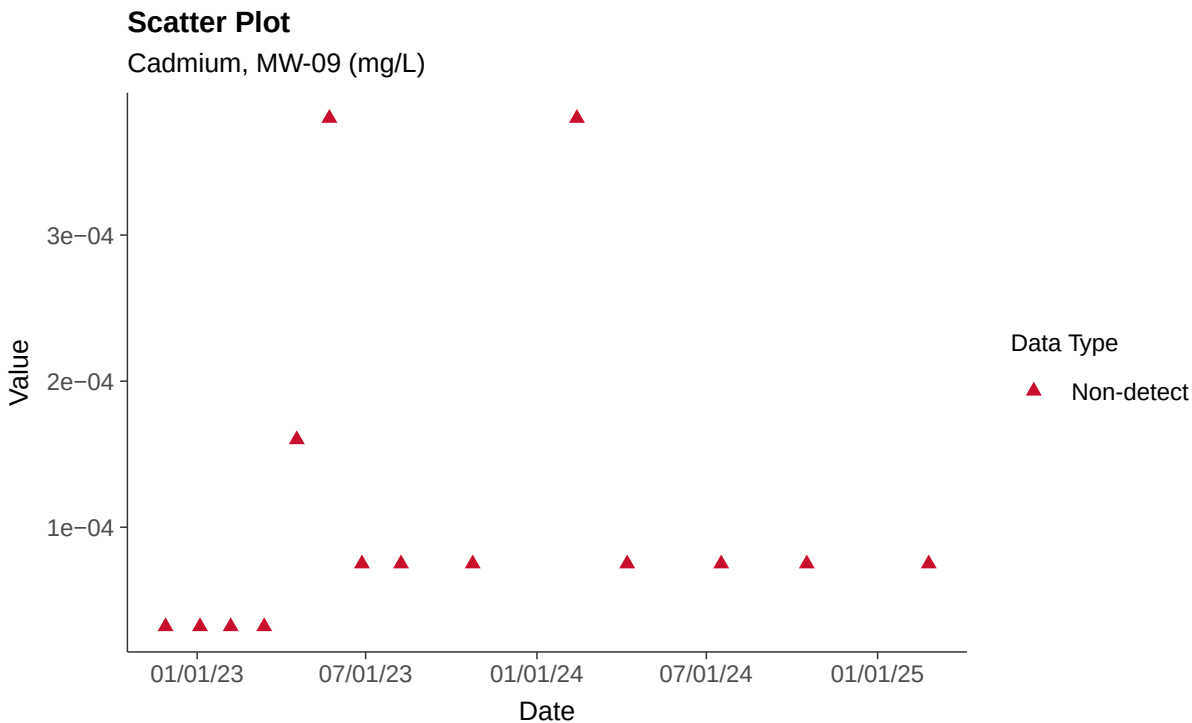


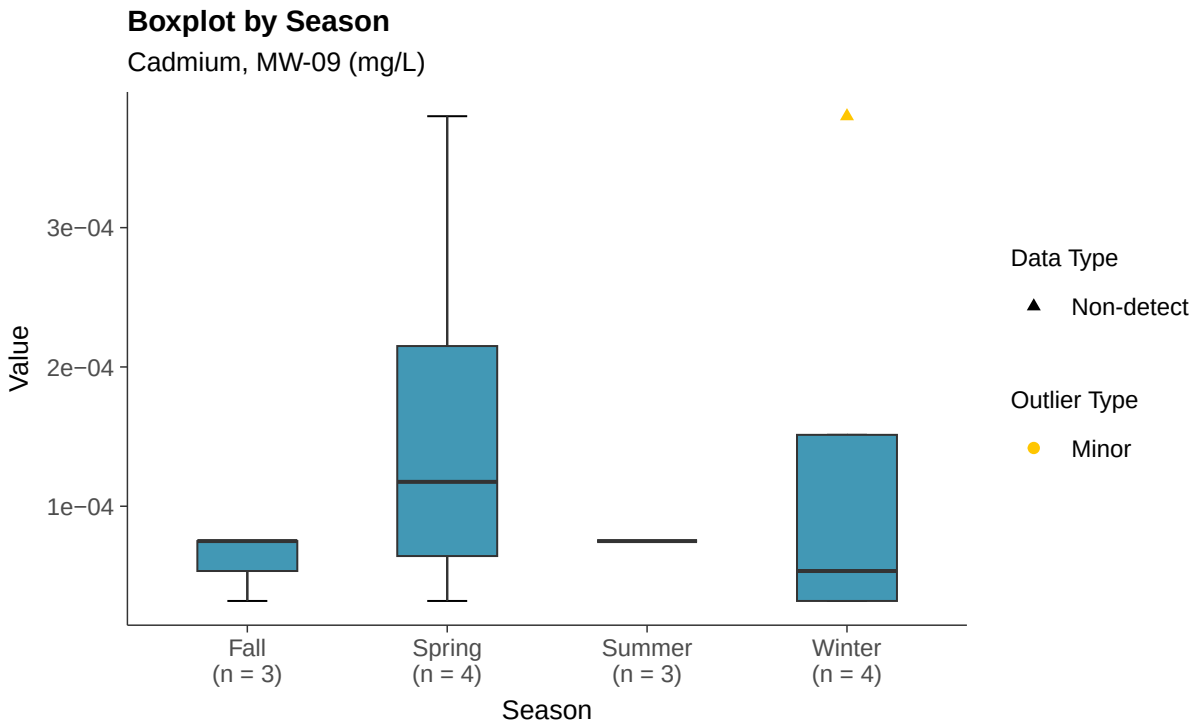
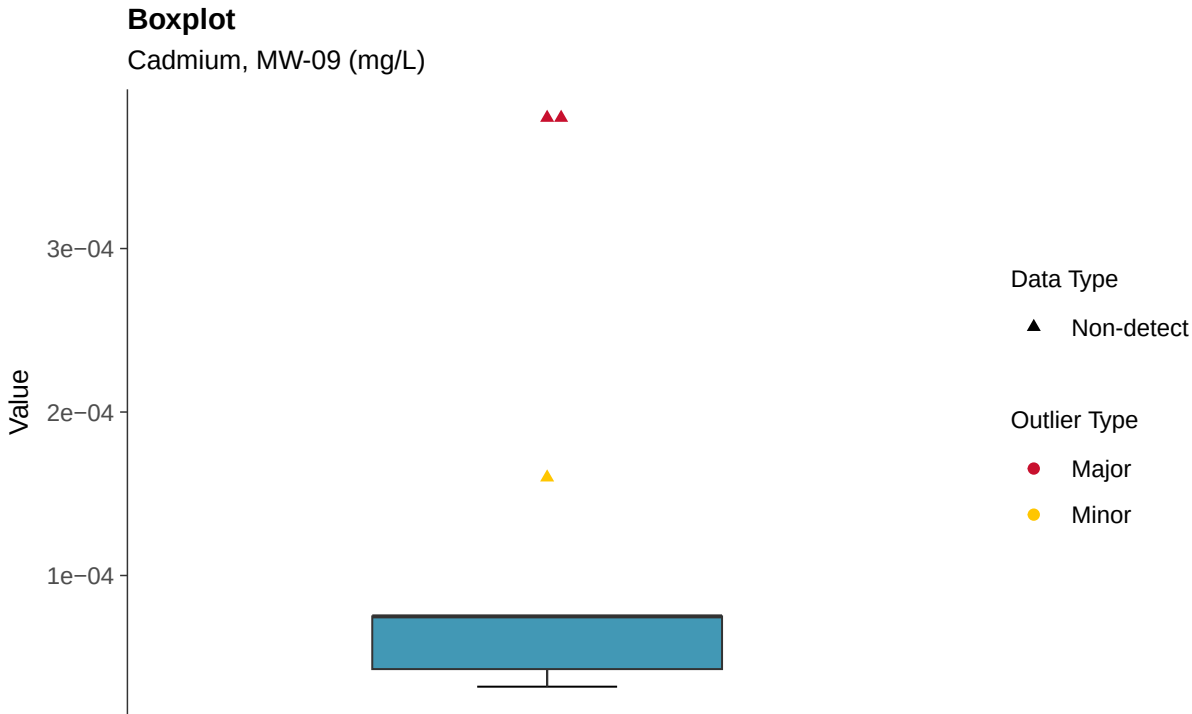


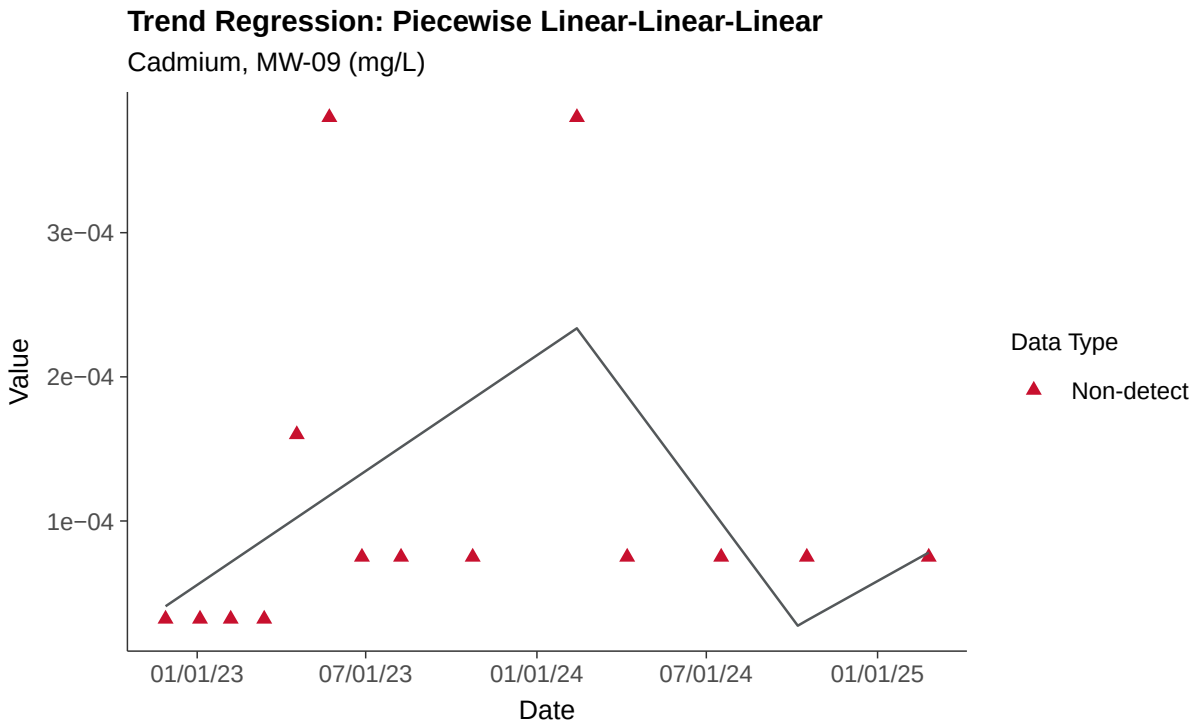
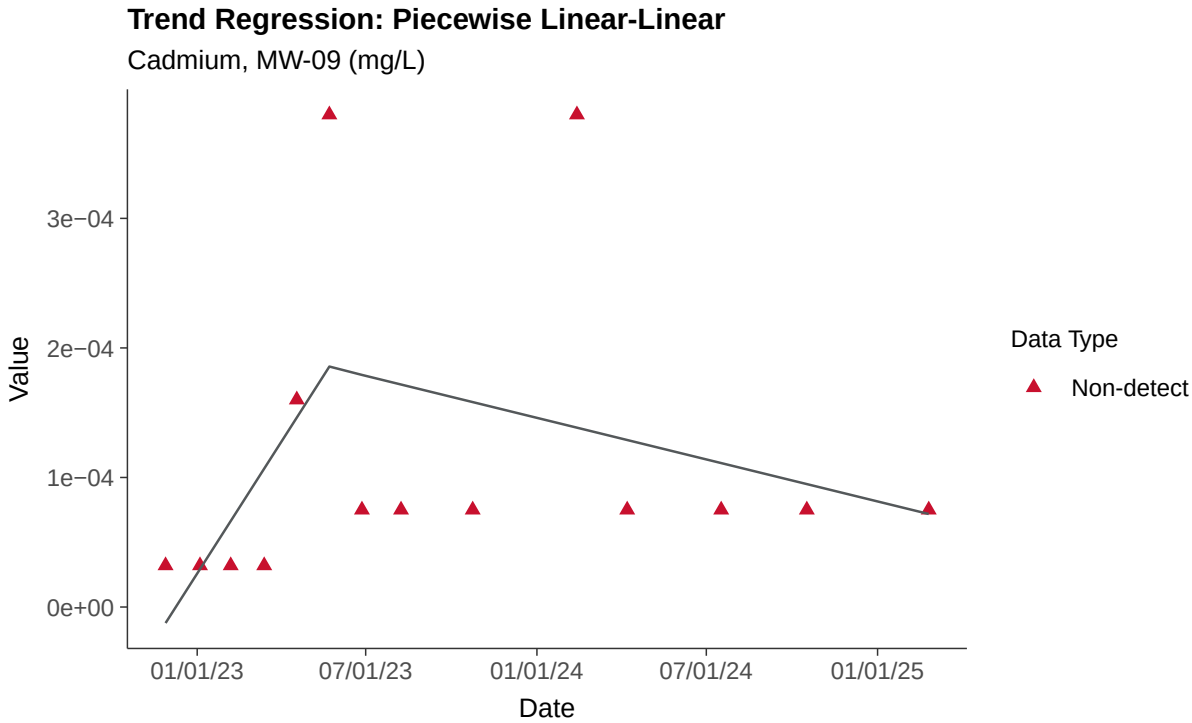


Appendix IV: Cadmium, MW-09

ID: 19_2_4_106



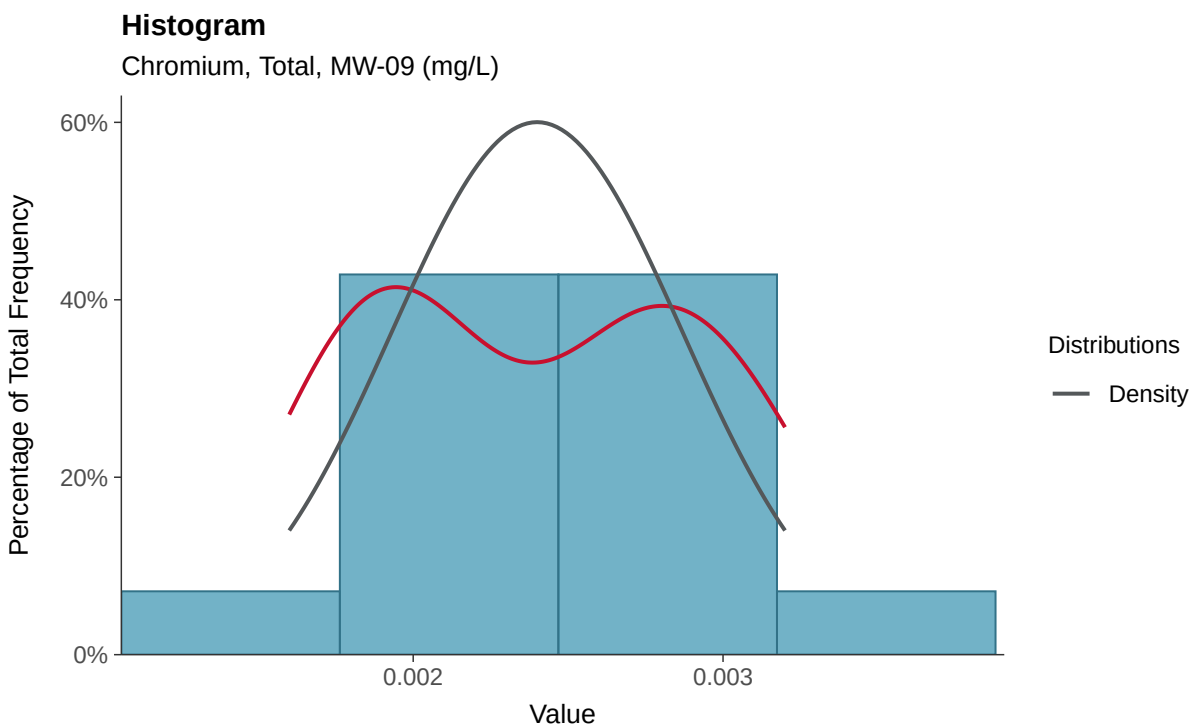
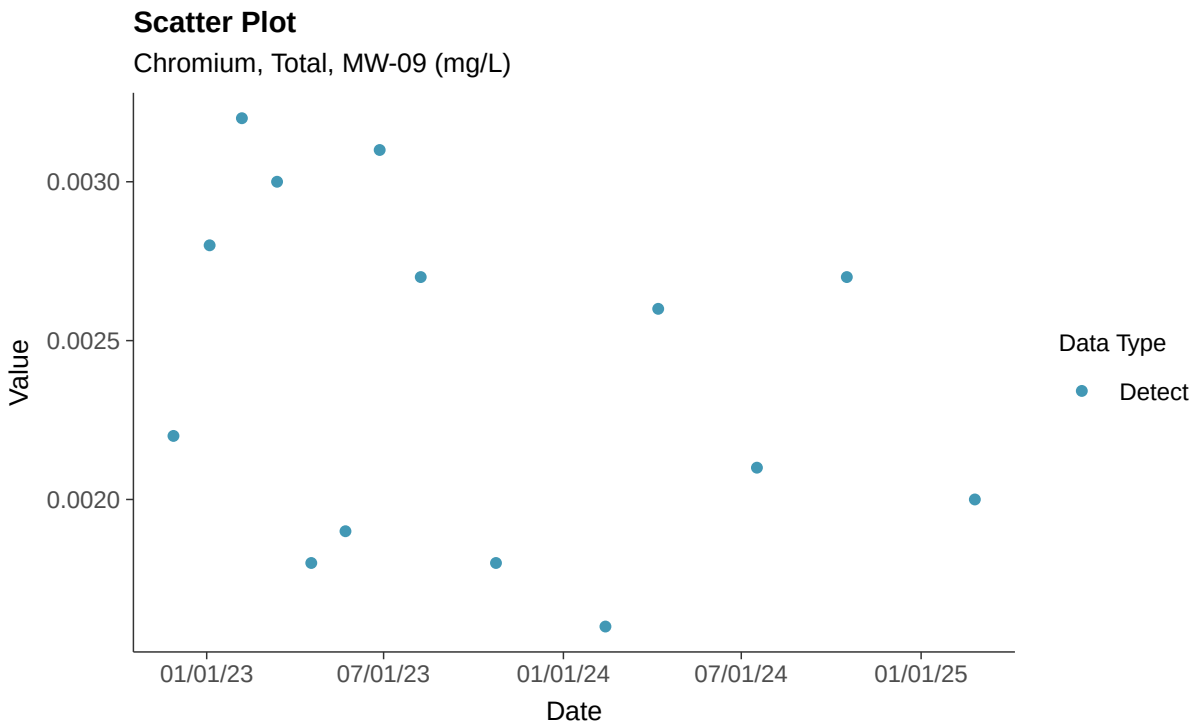


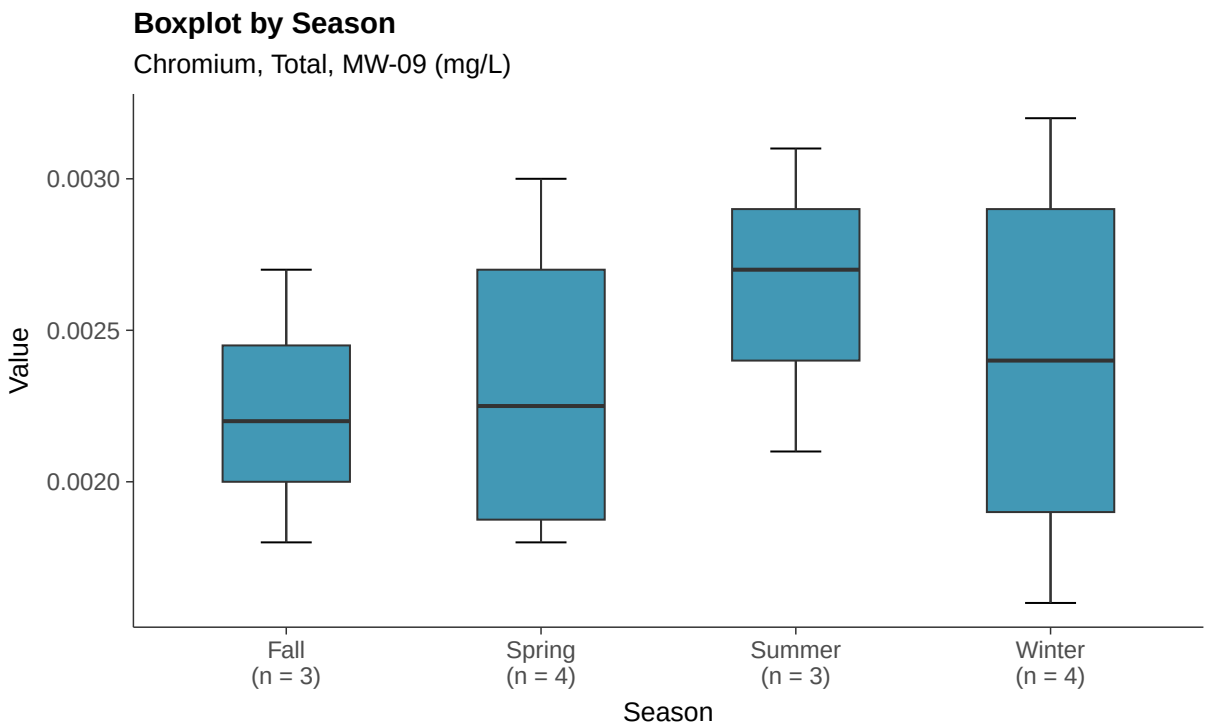
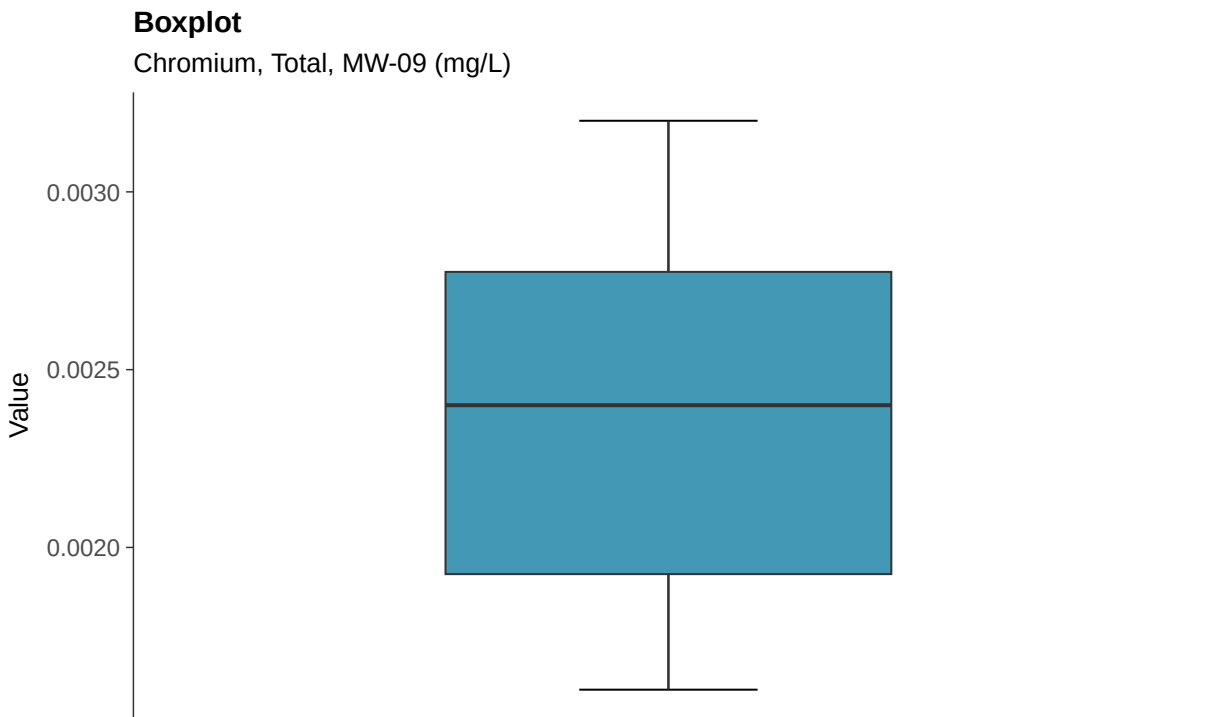


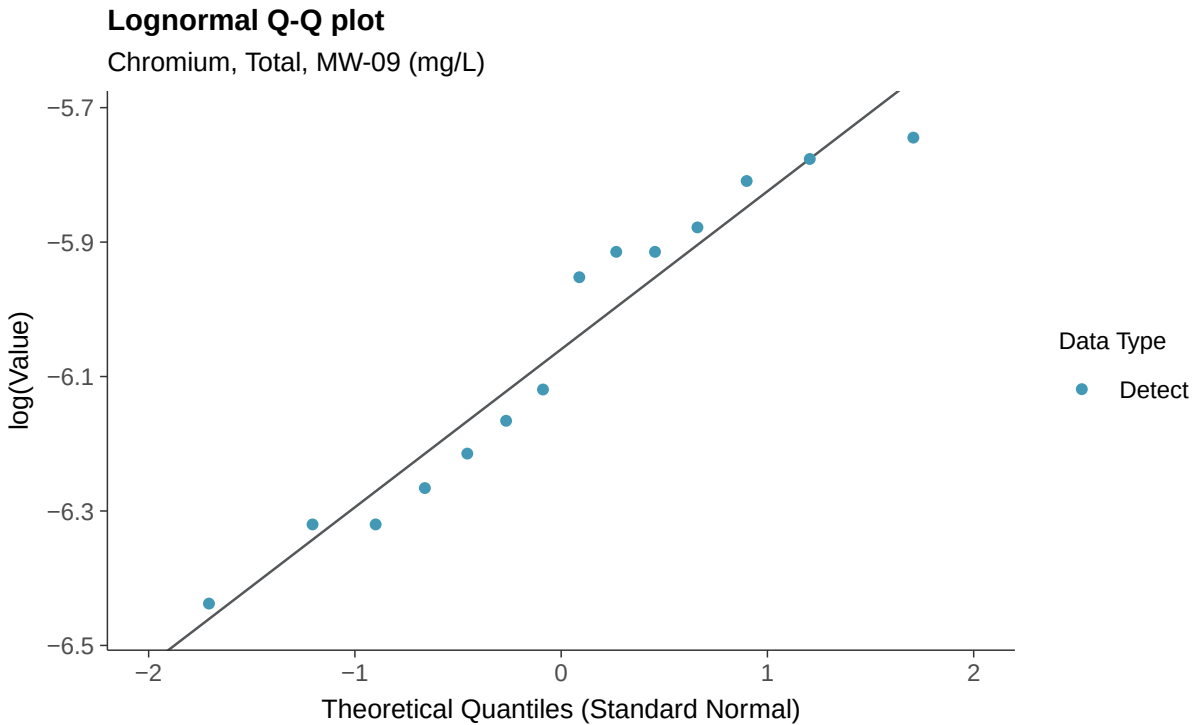
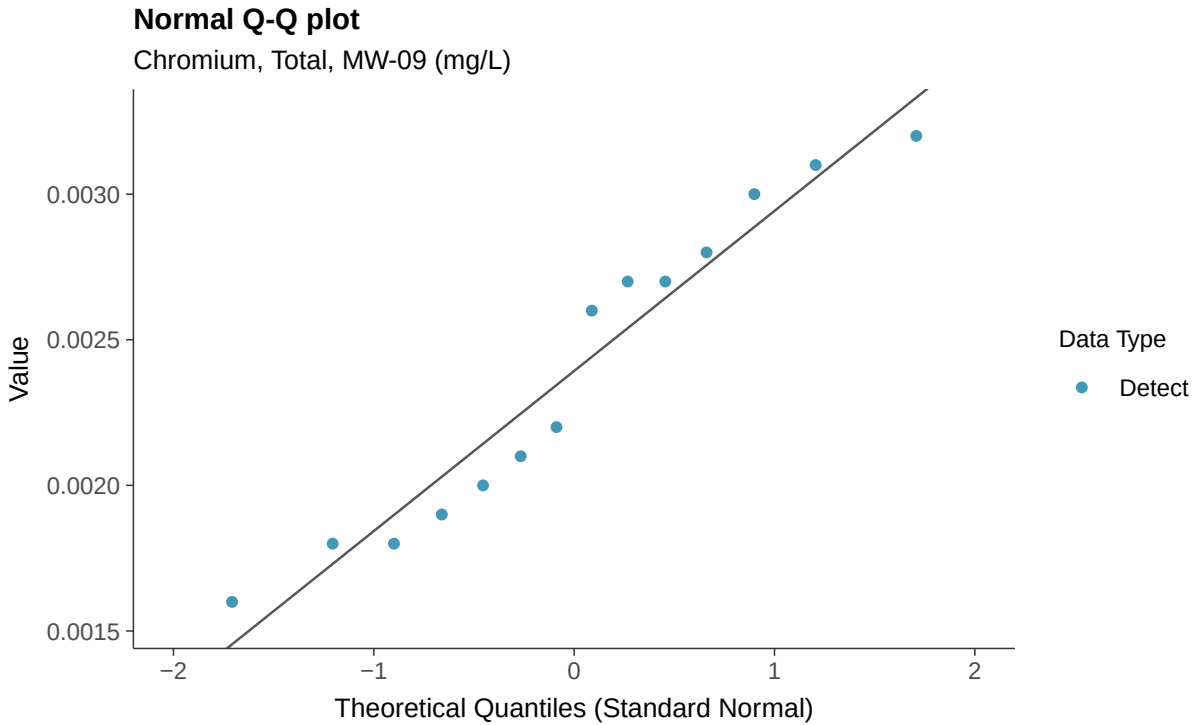


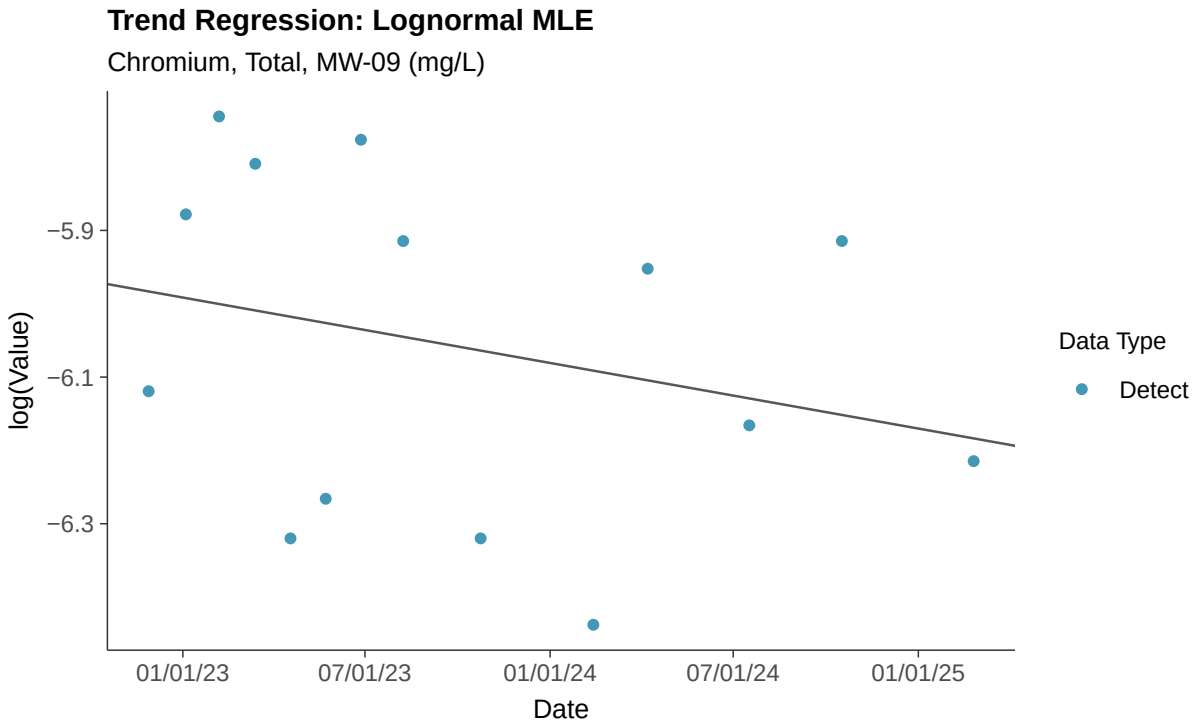
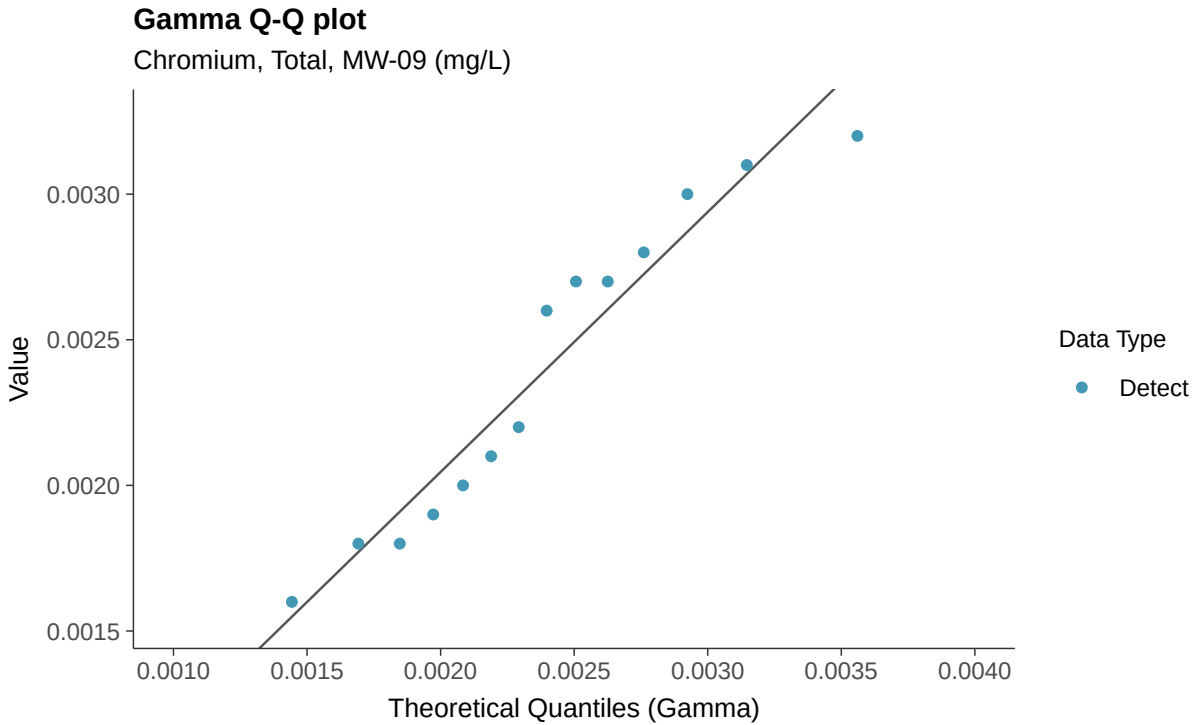
Appendix IV: Chromium, Total, MW-09

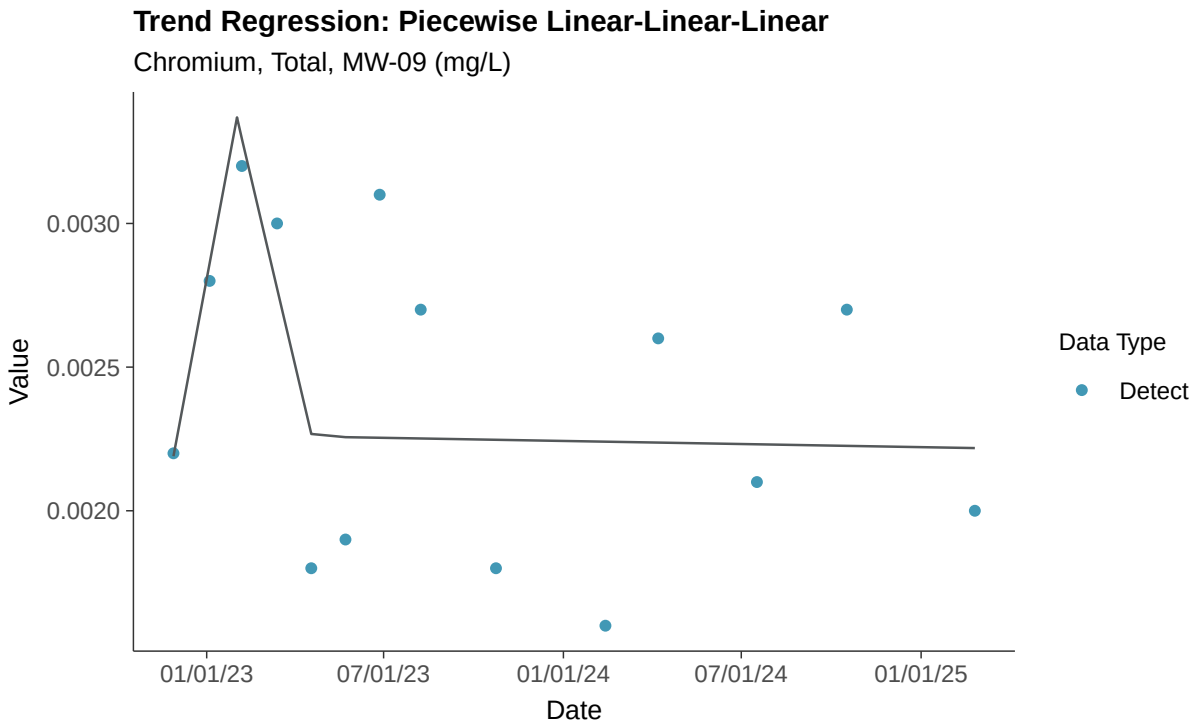
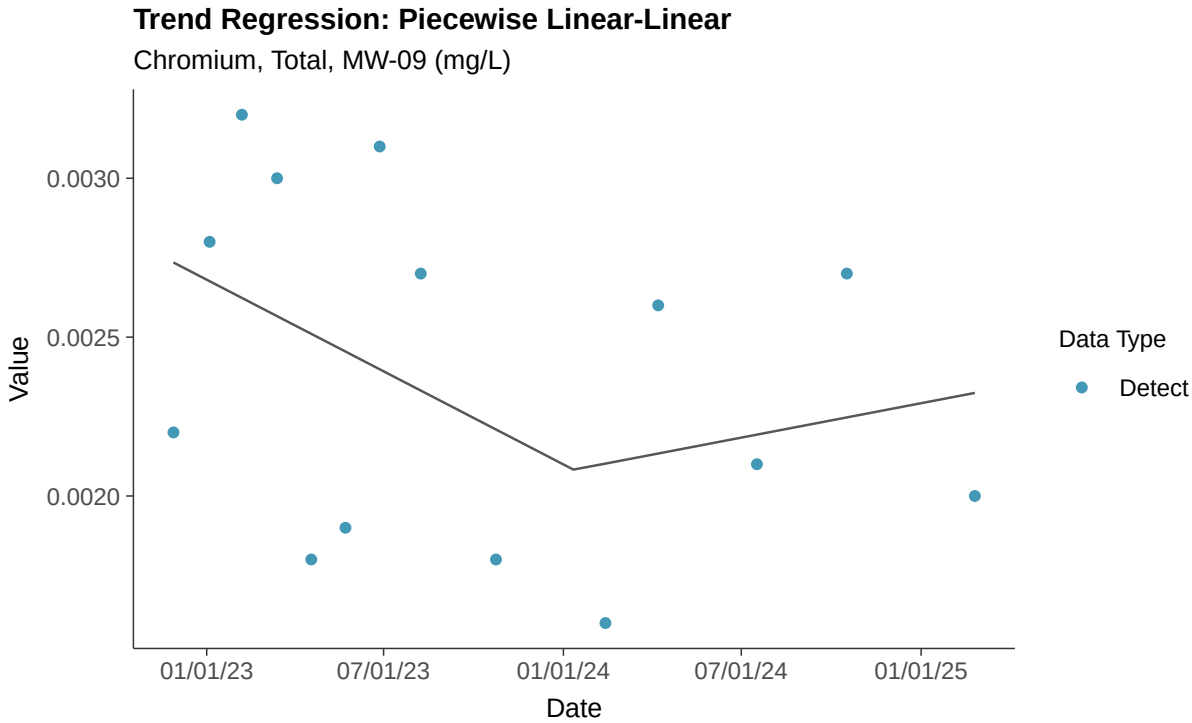
ID: 19_2_4_109







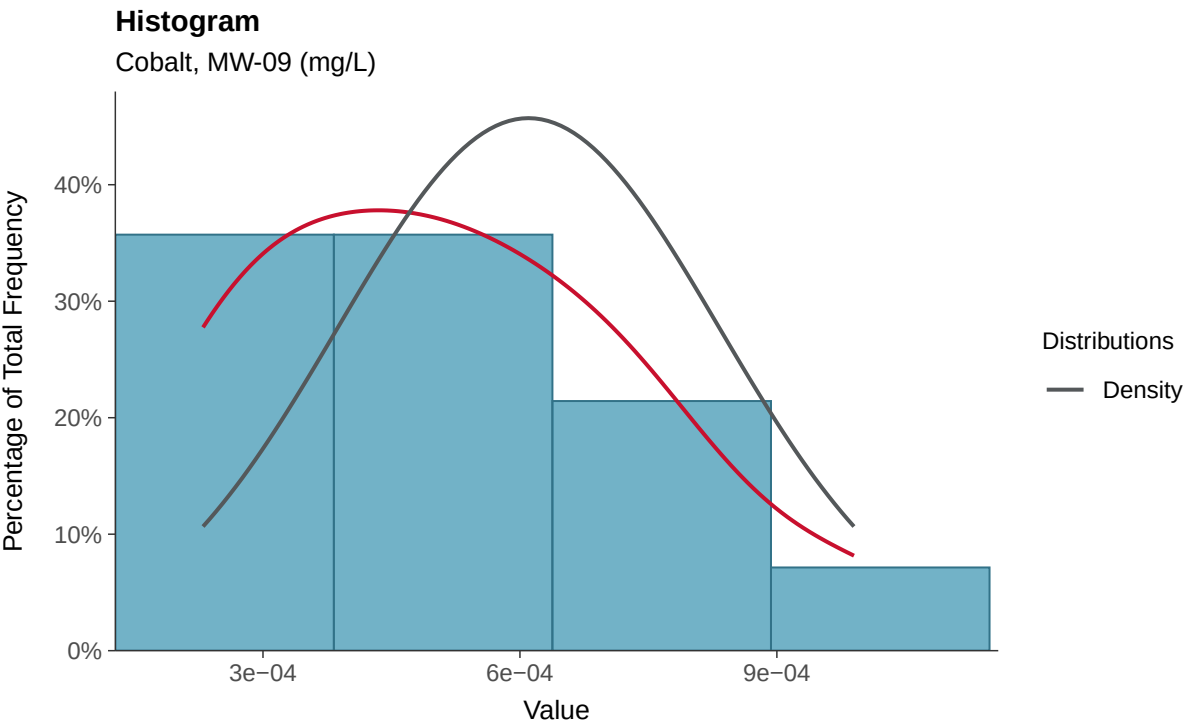
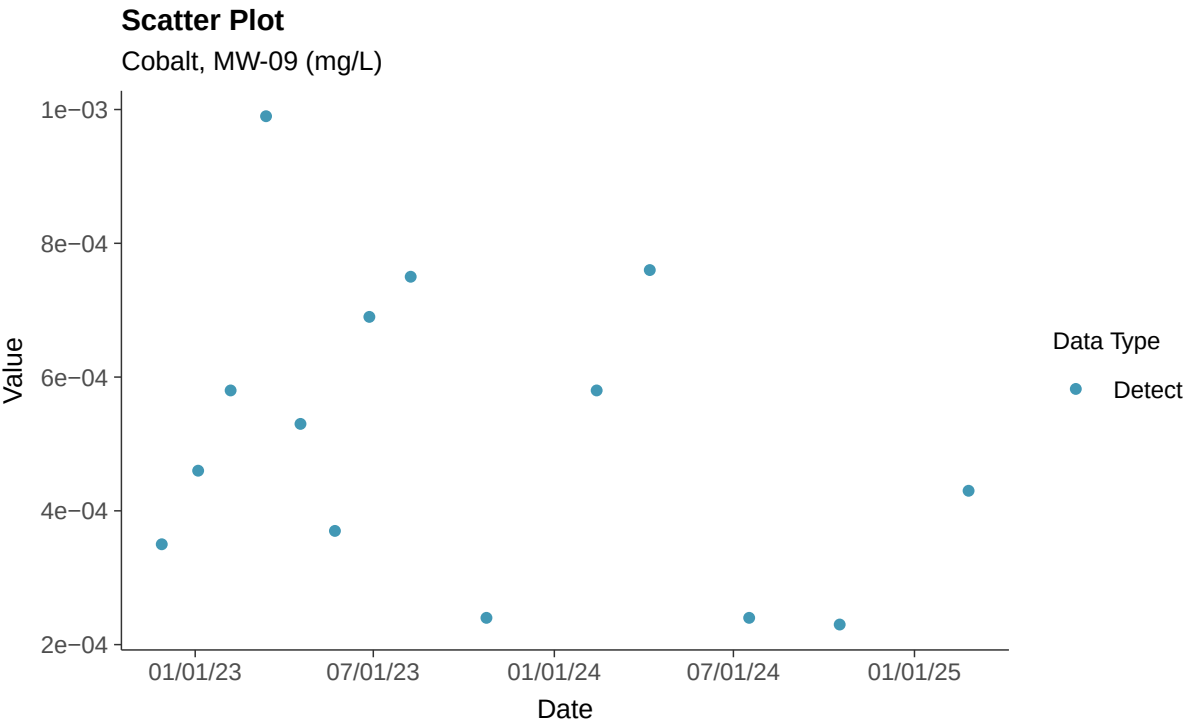


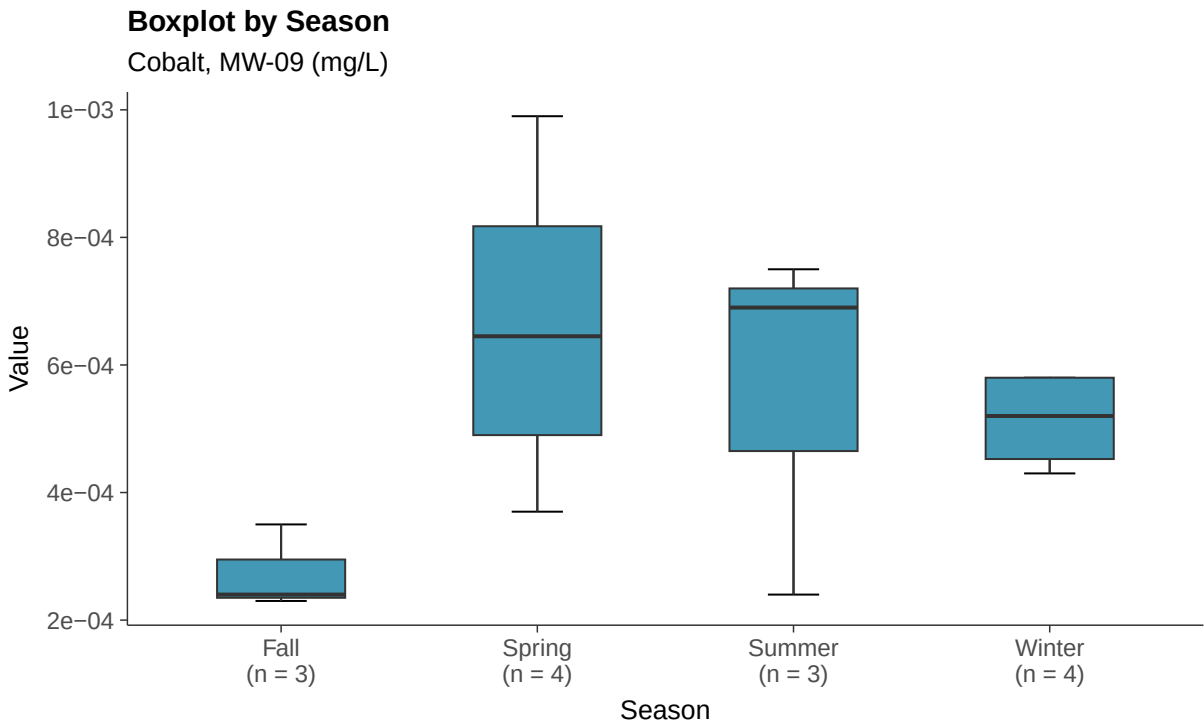
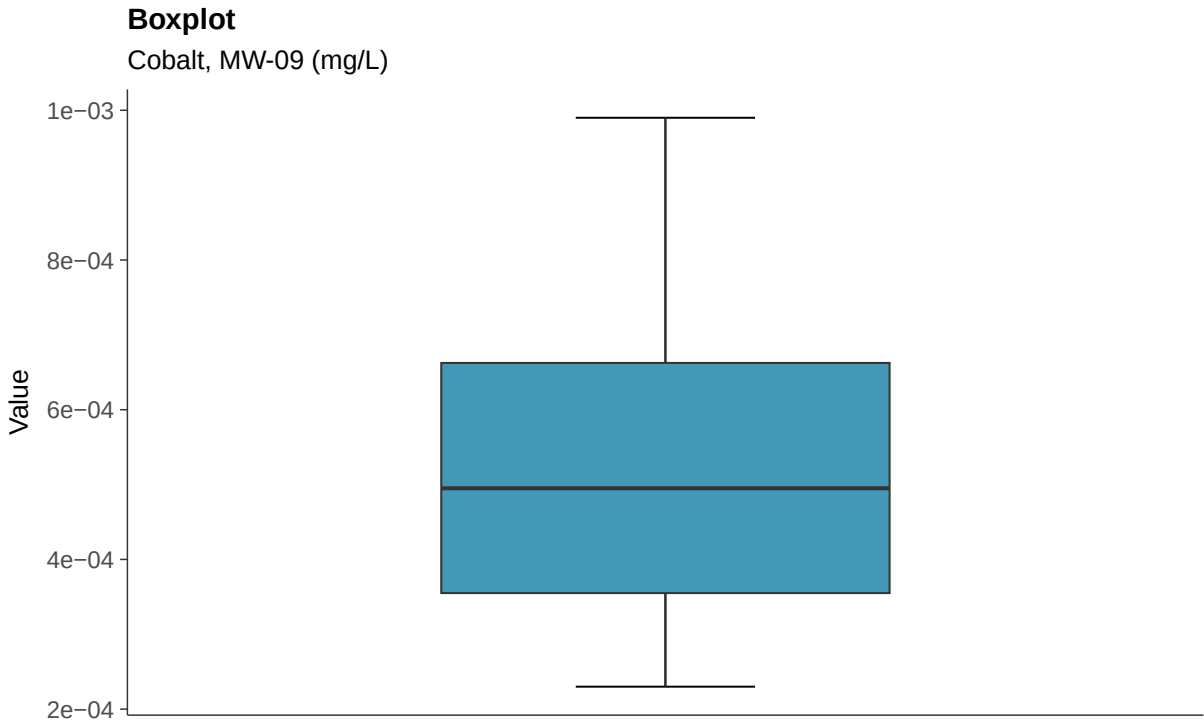


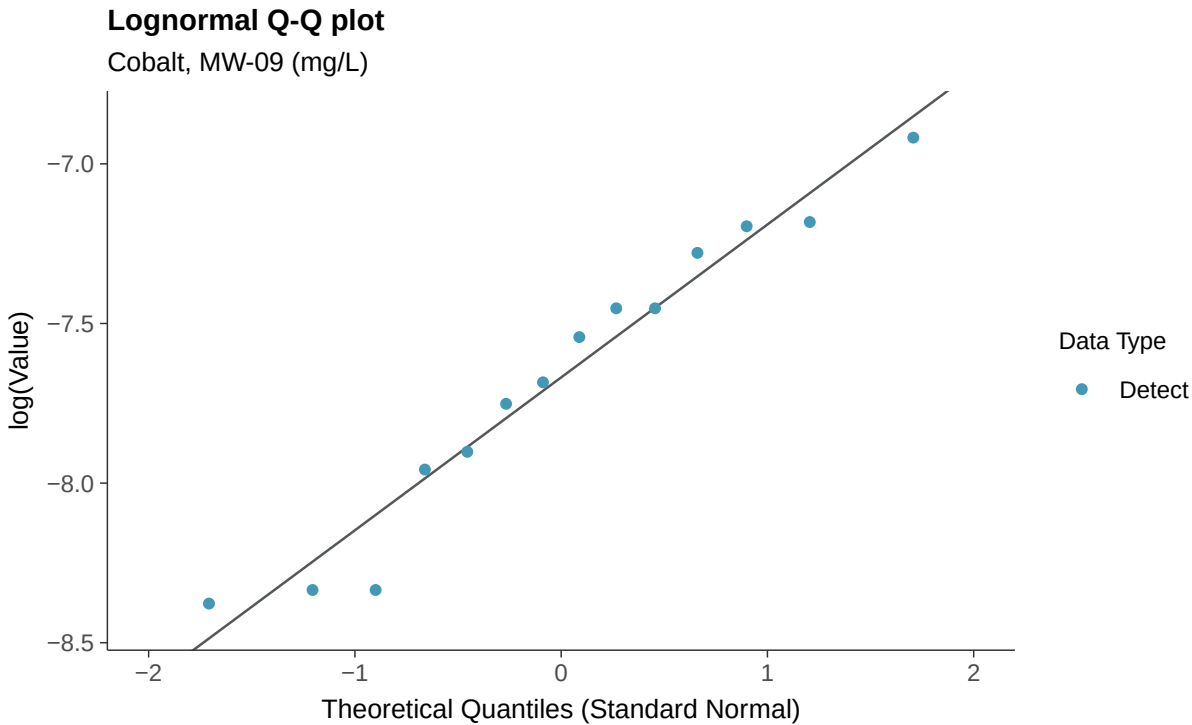
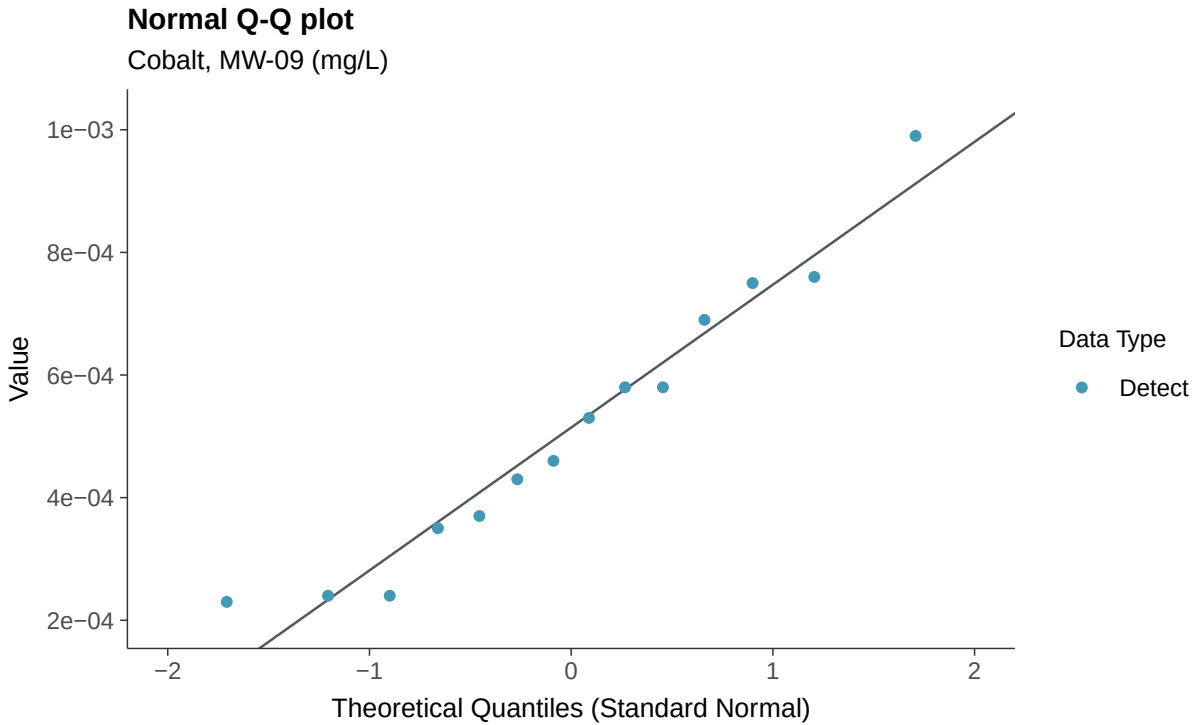


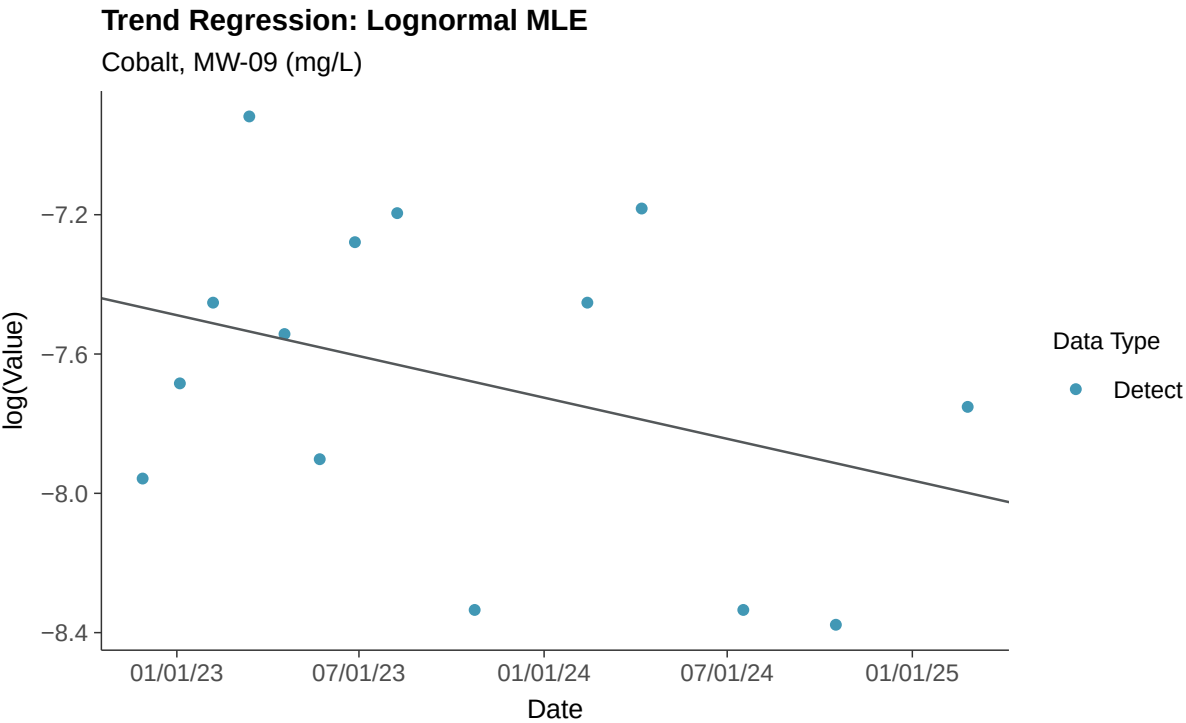
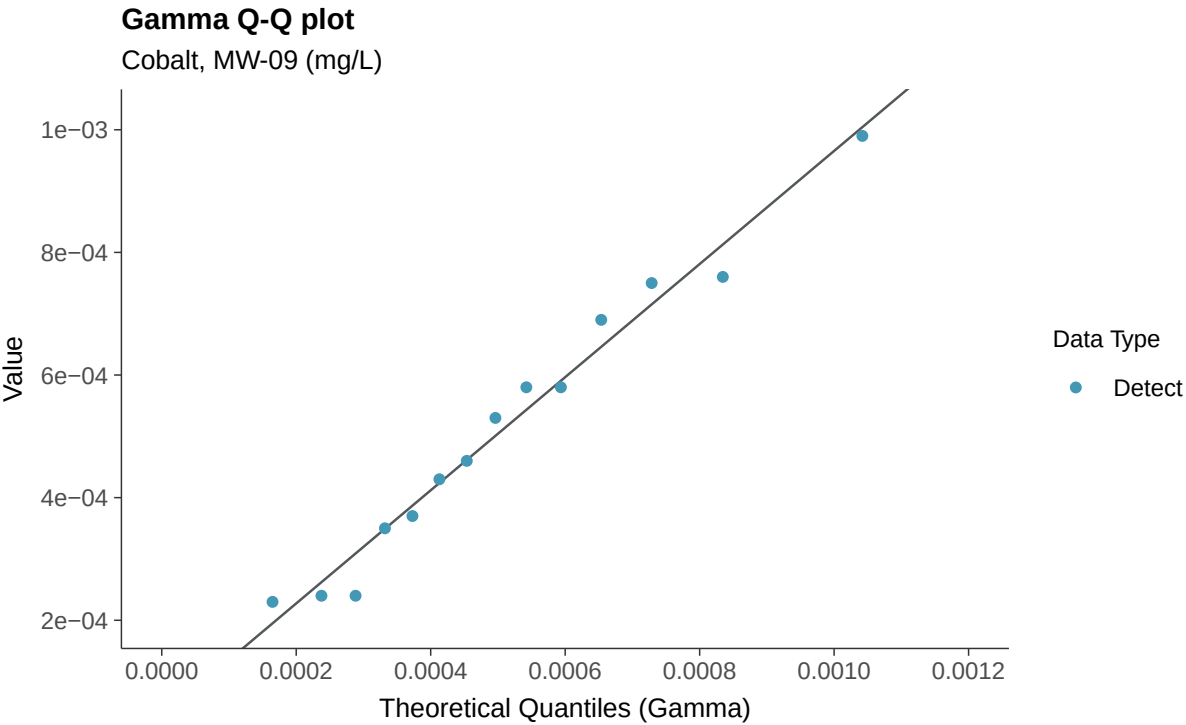
Appendix IV: Cobalt, MW-09

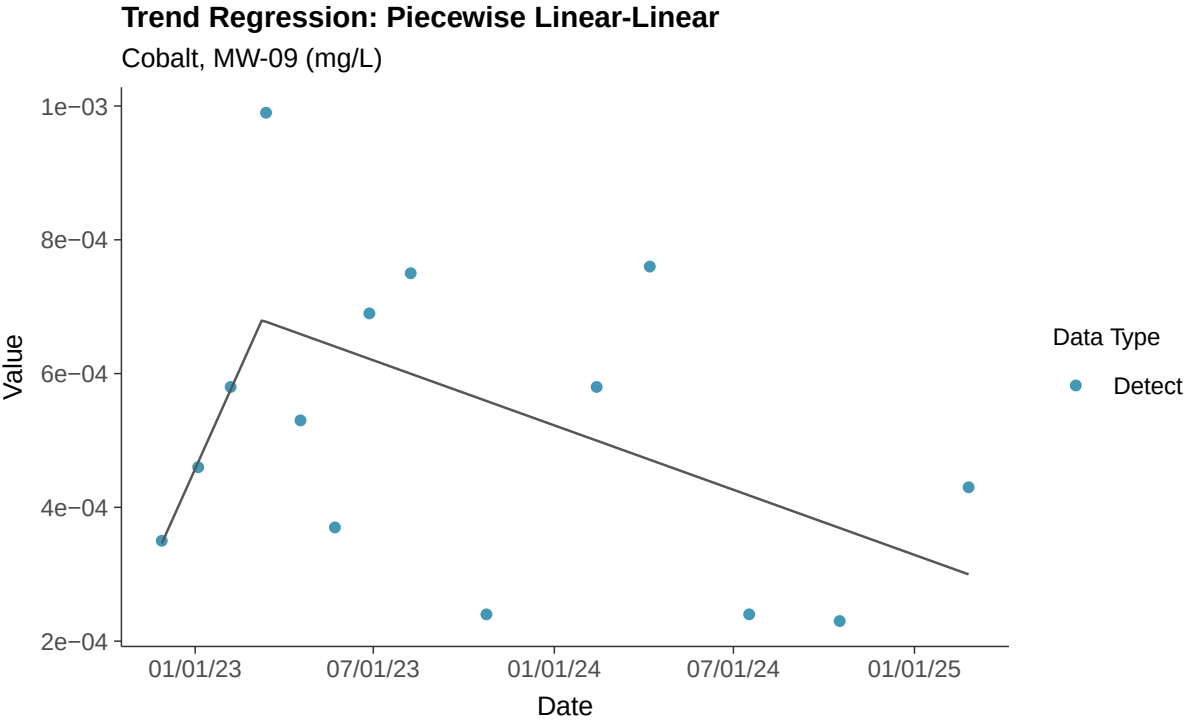
ID: 19_2_4_110







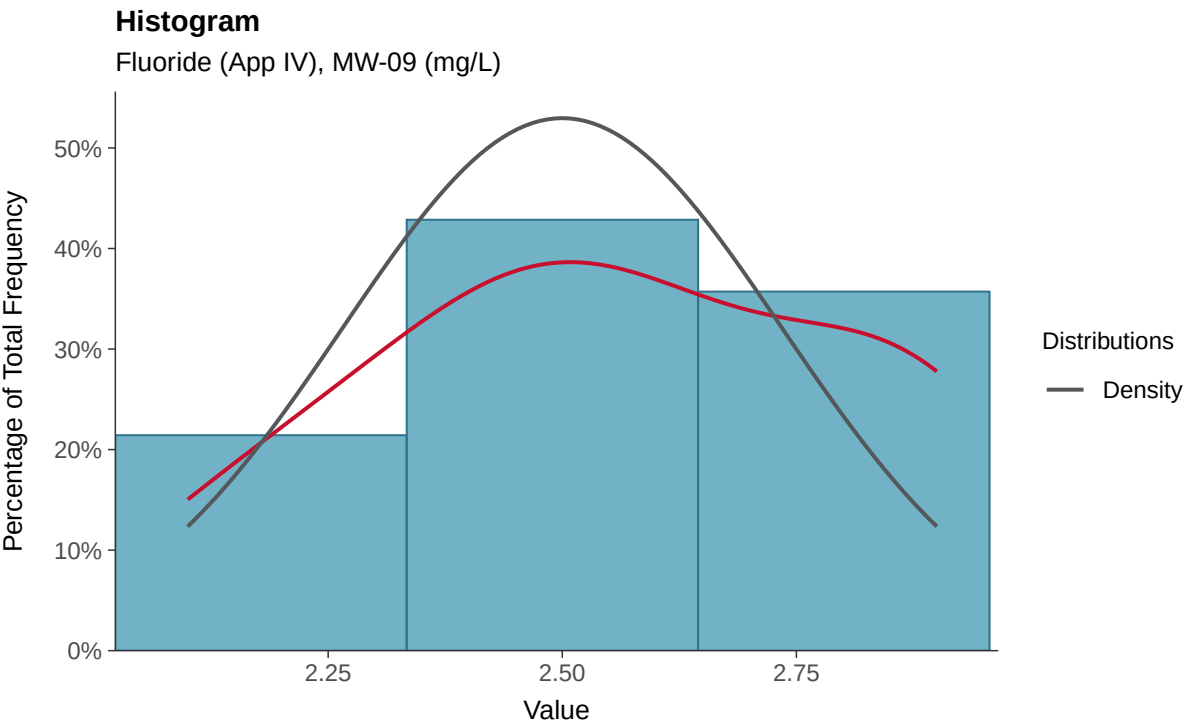
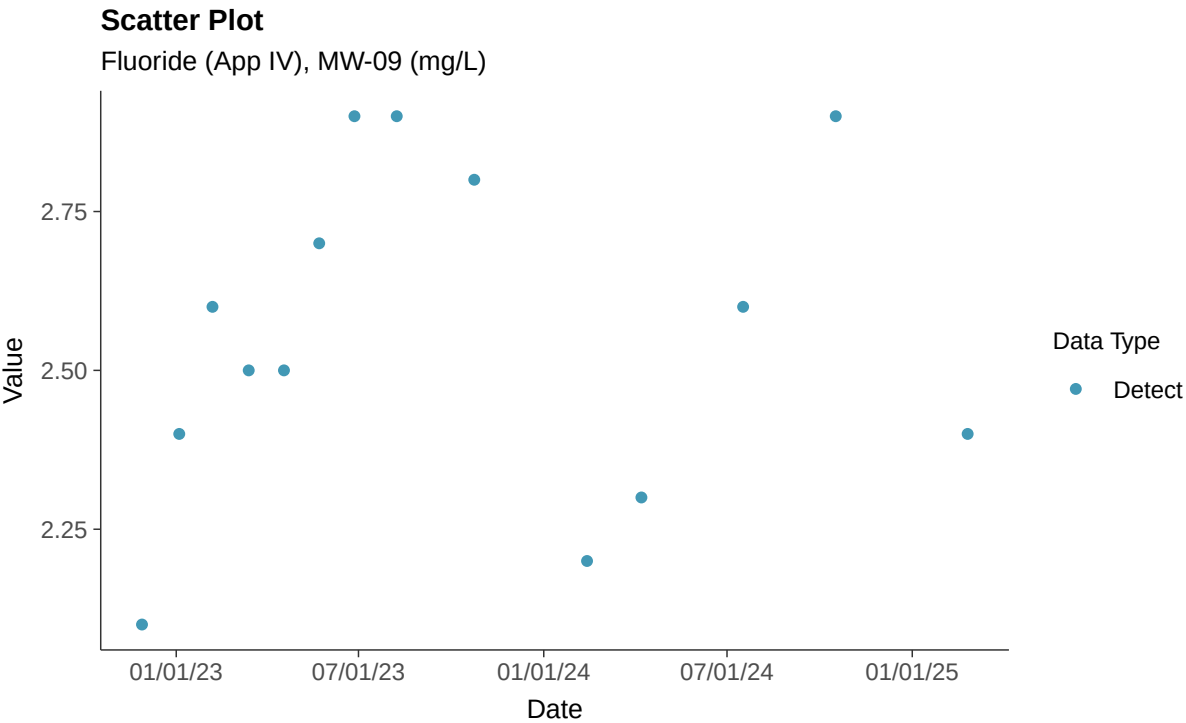


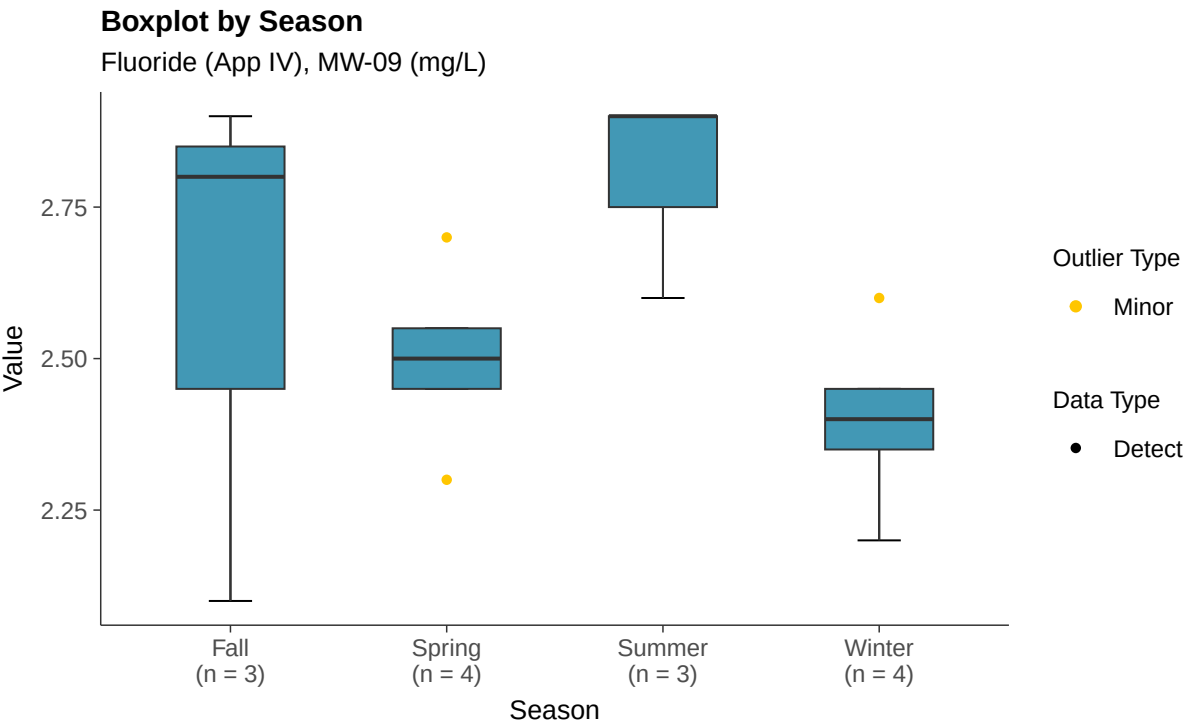
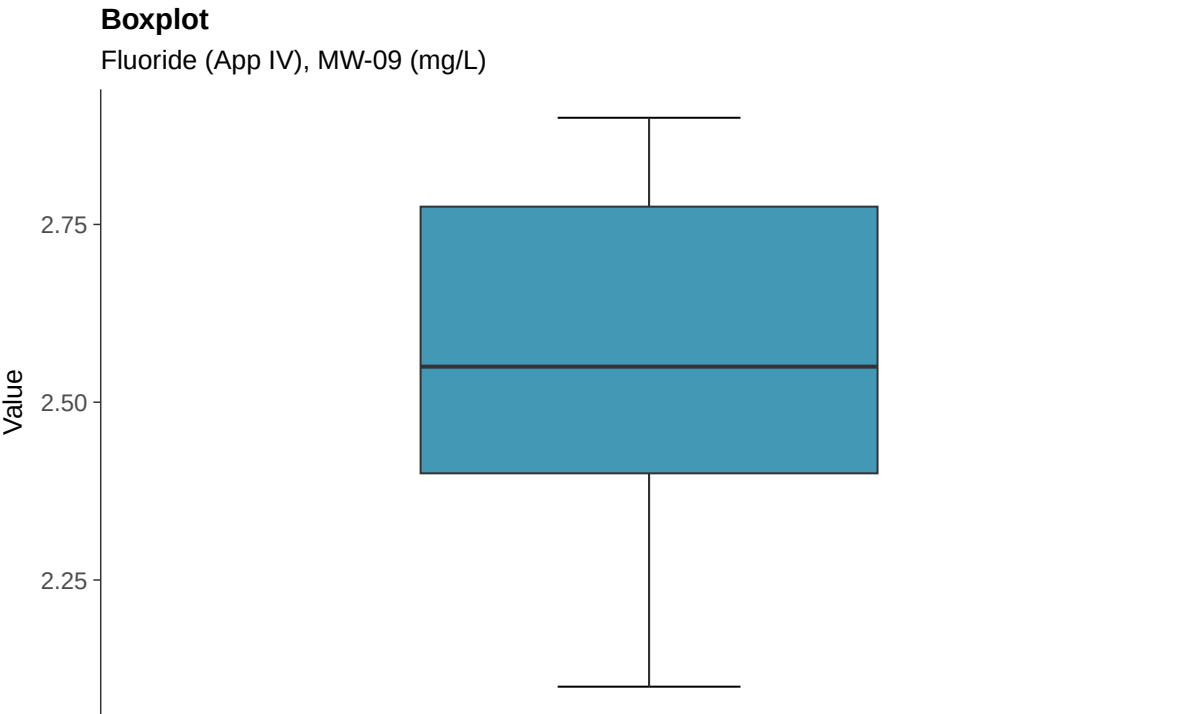


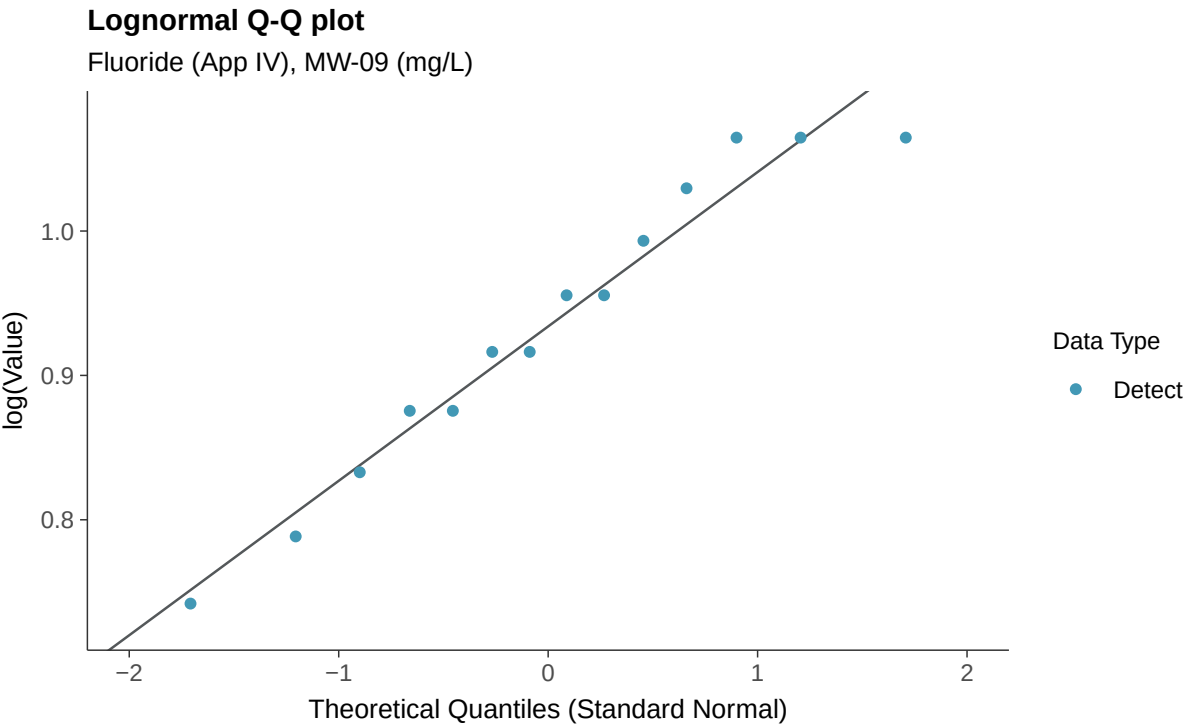
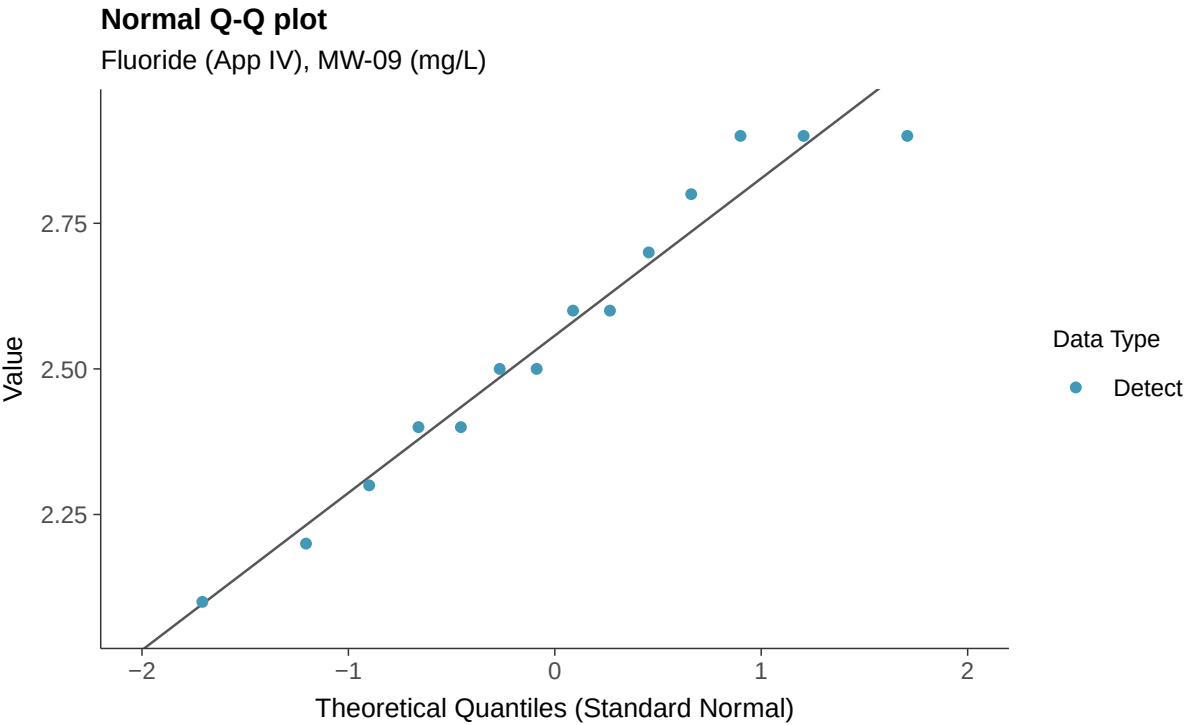


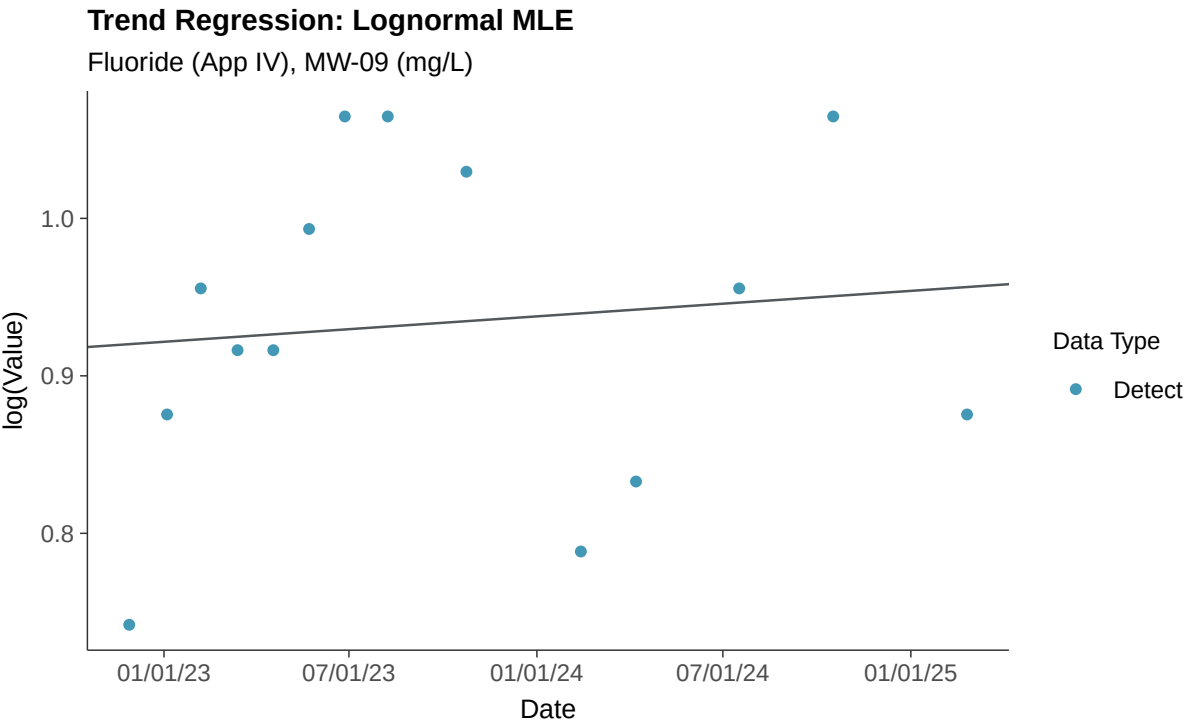
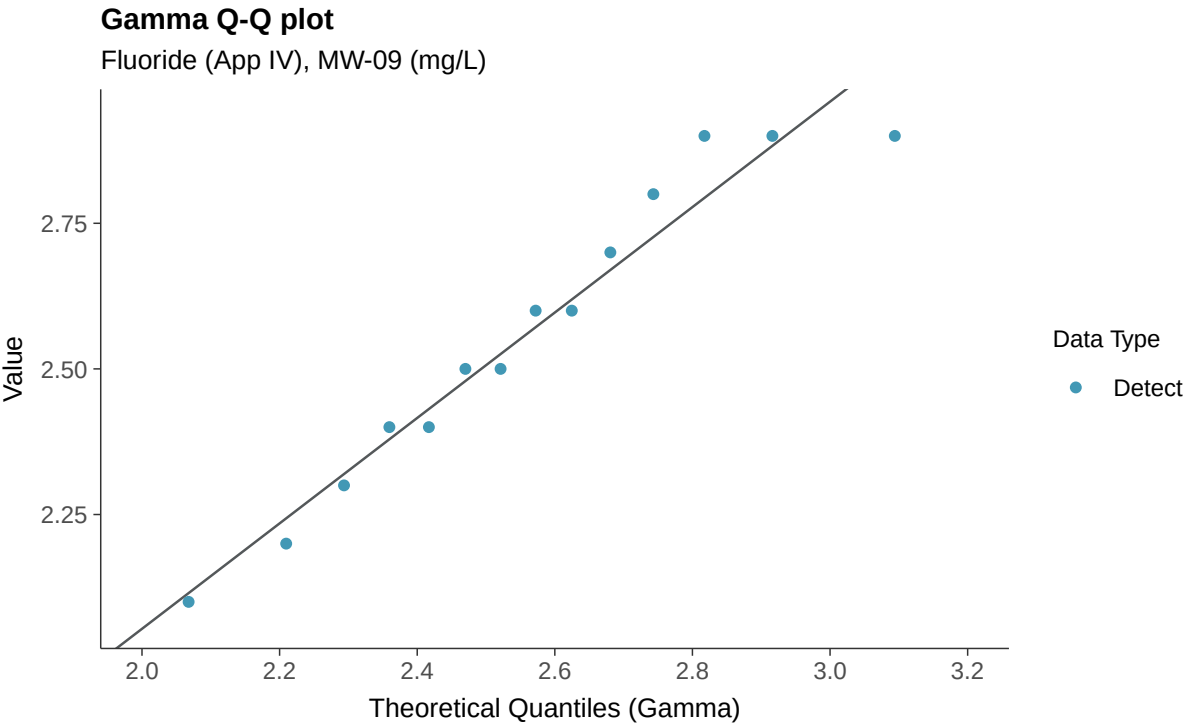
Appendix IV: Fluoride (App IV), MW-09

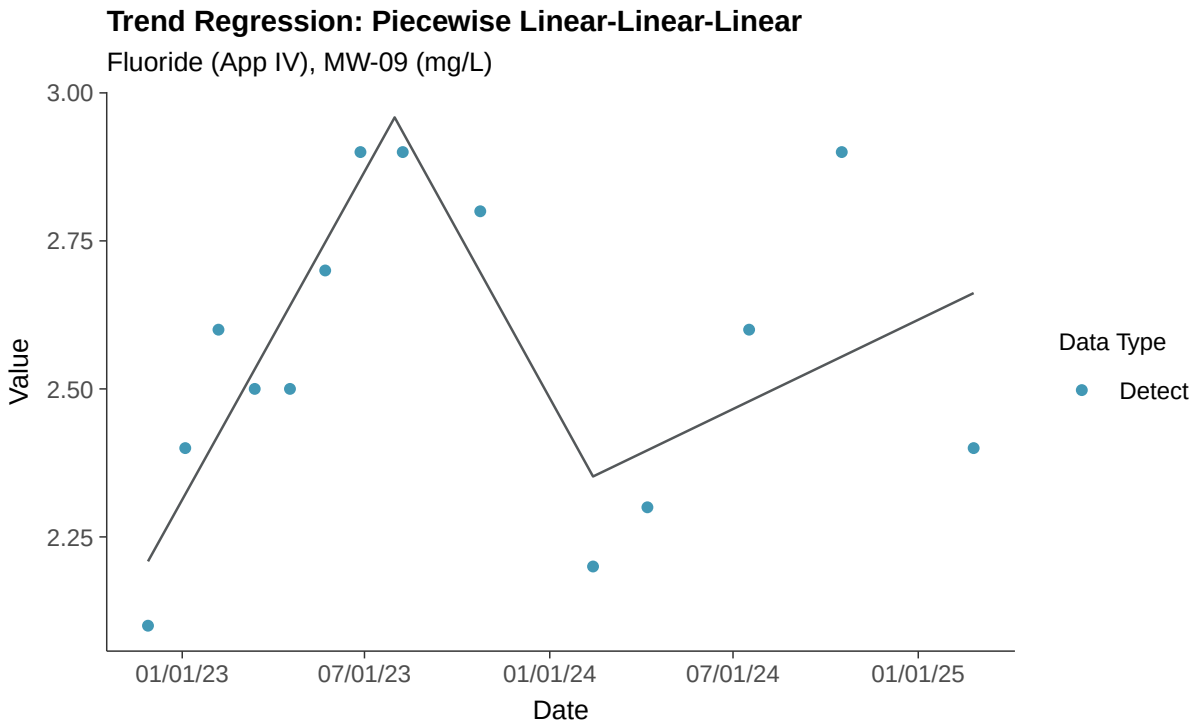
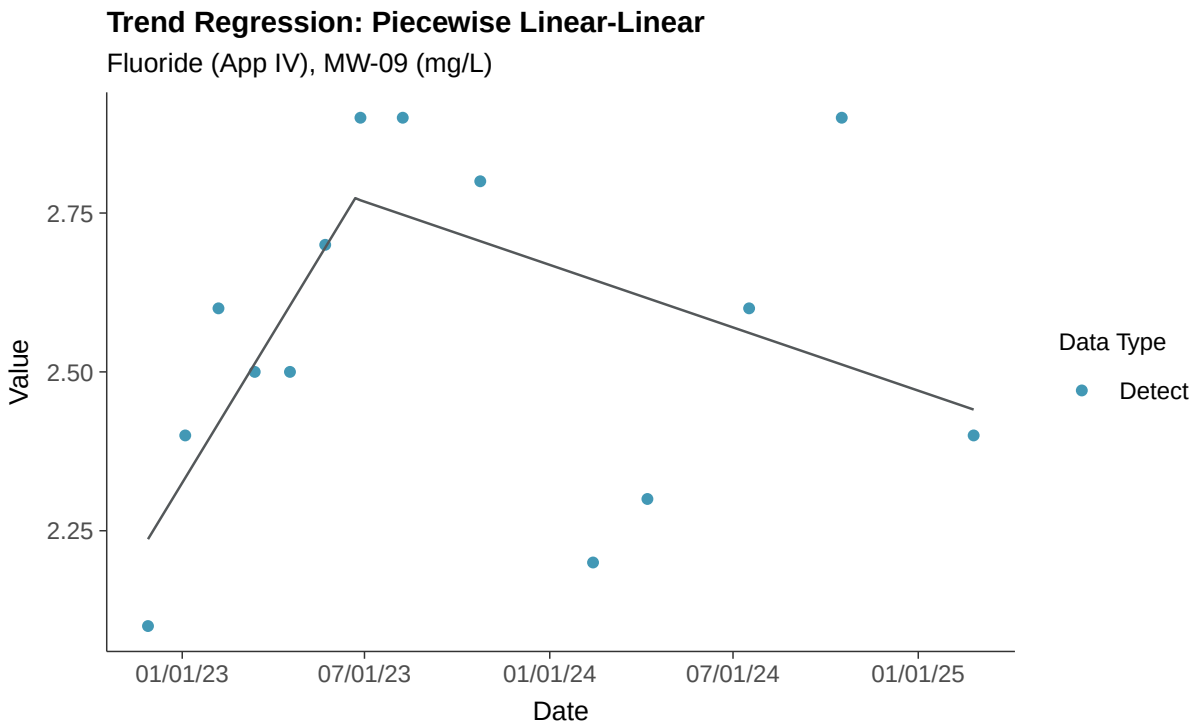
ID: 19_2_4_113







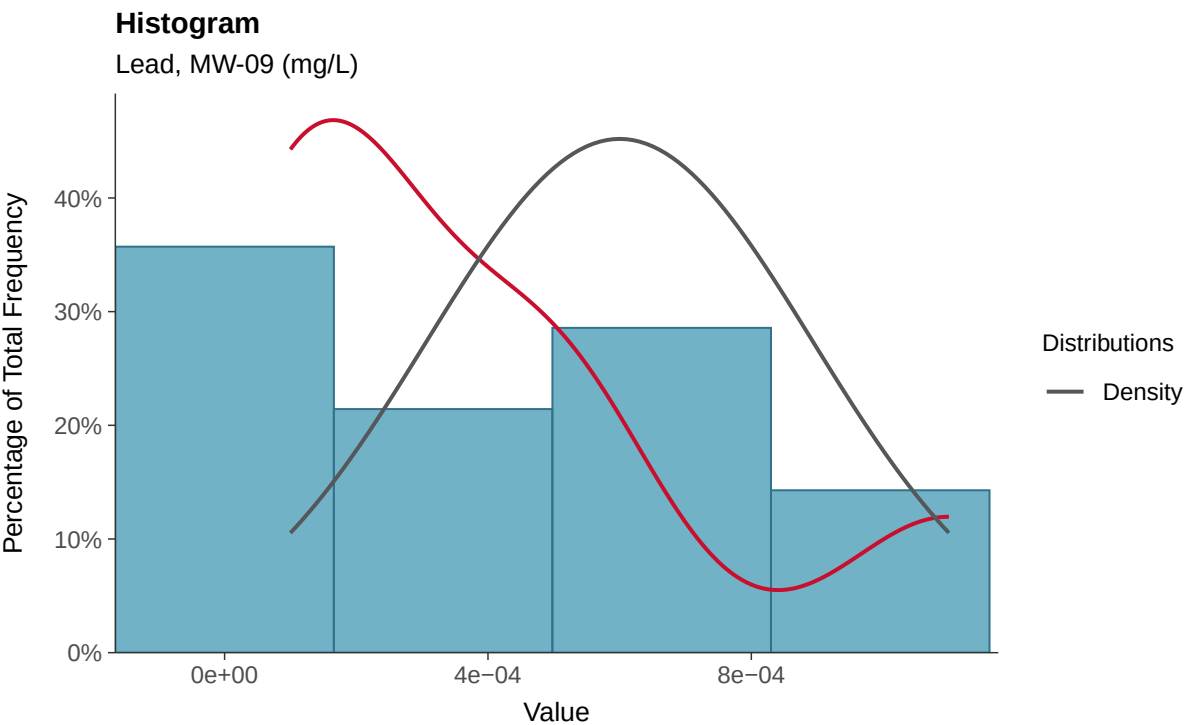
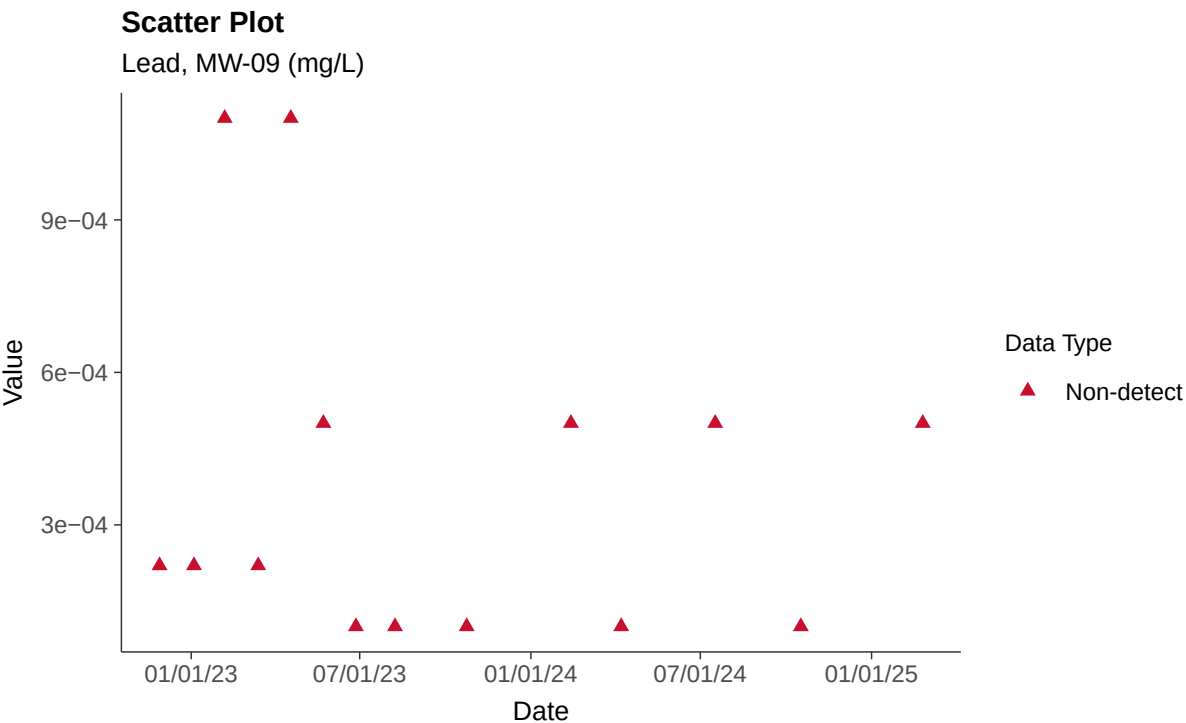


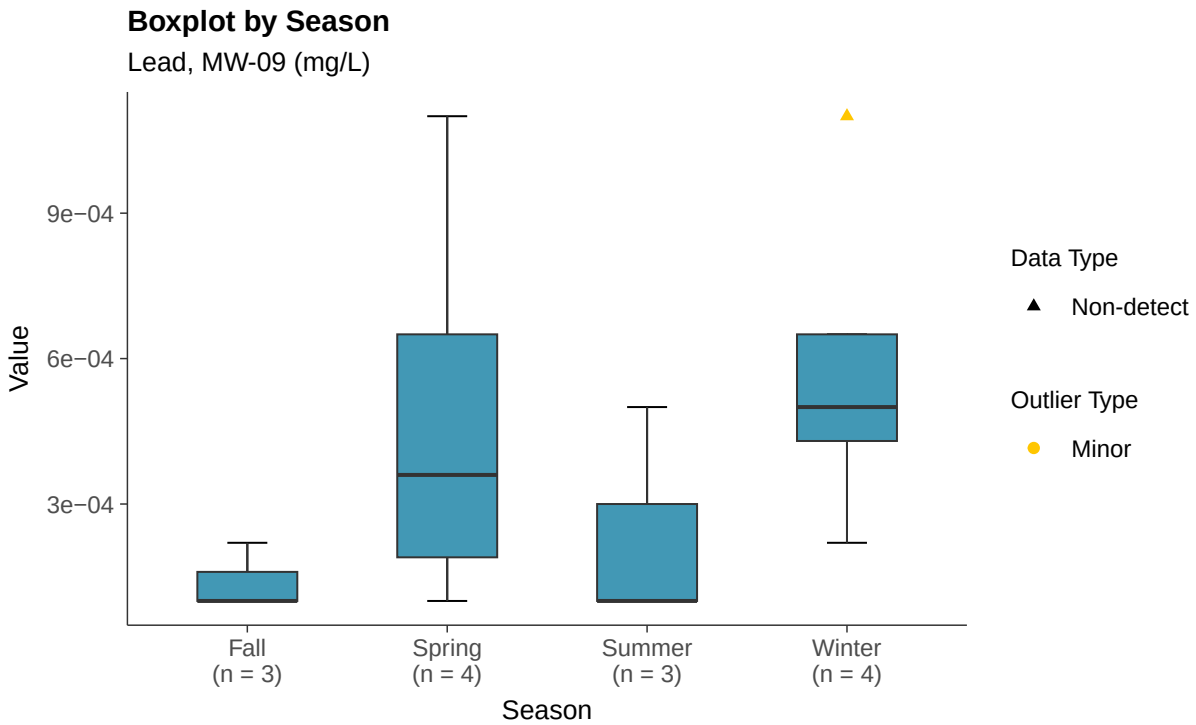
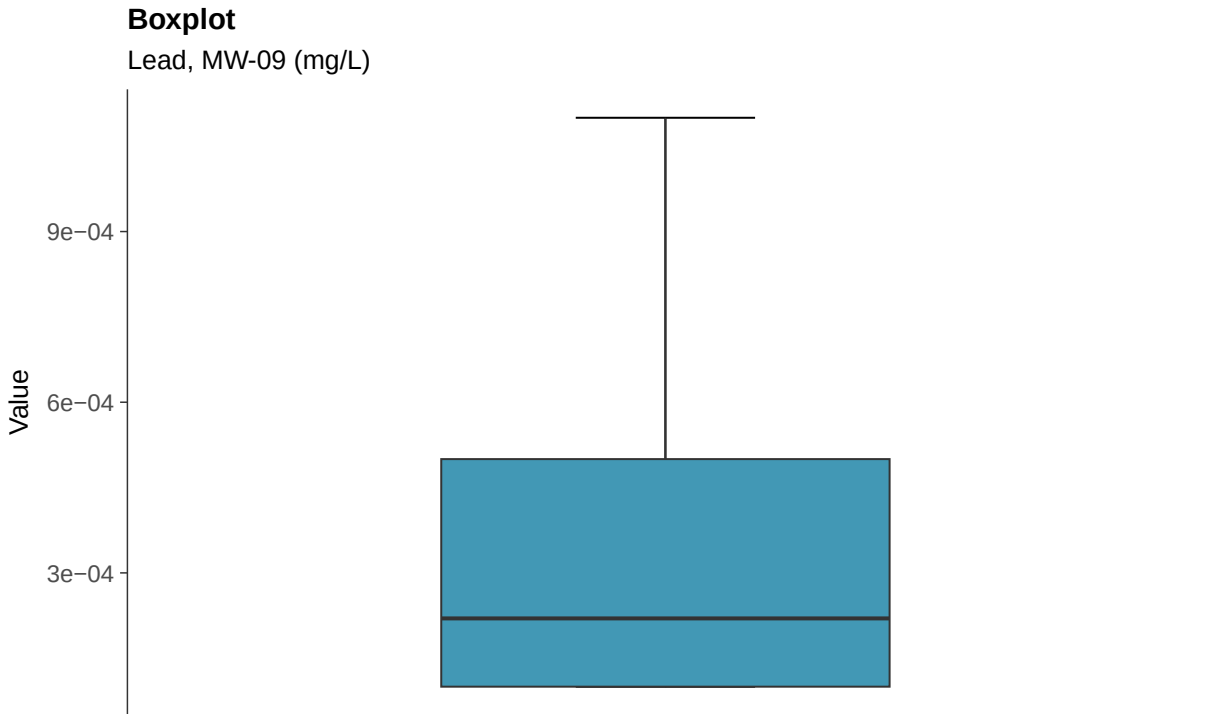


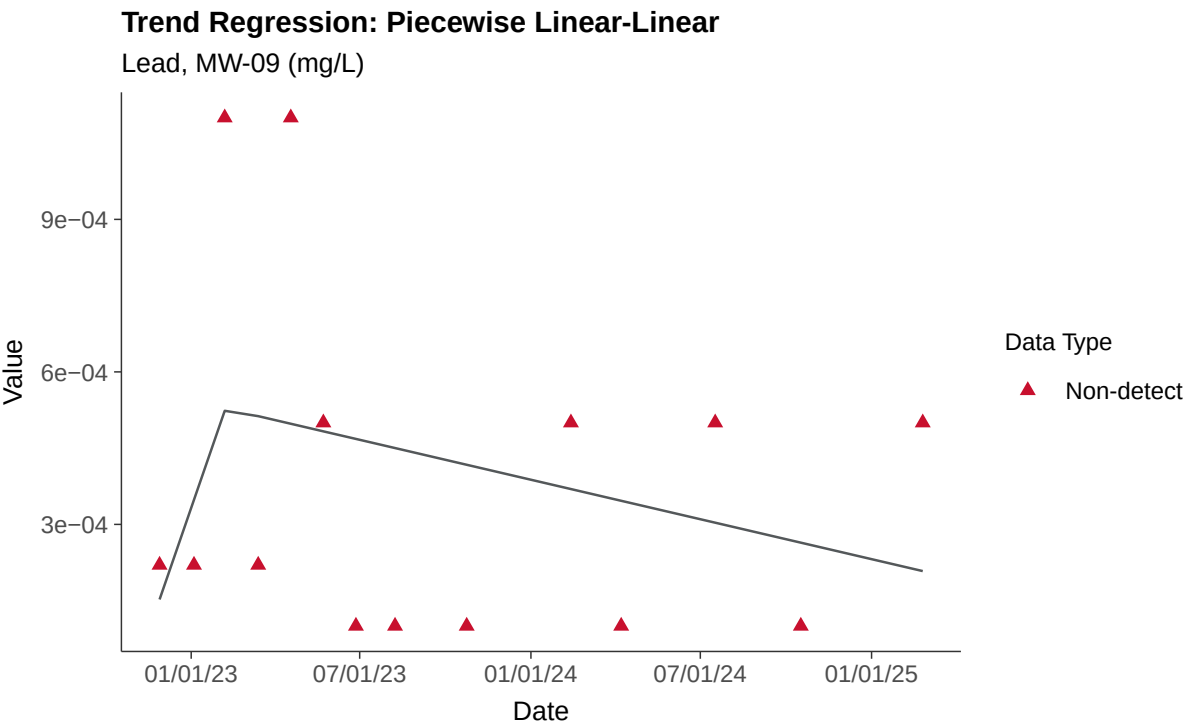


Appendix IV: Lead, MW-09

ID: 19_2_4_115



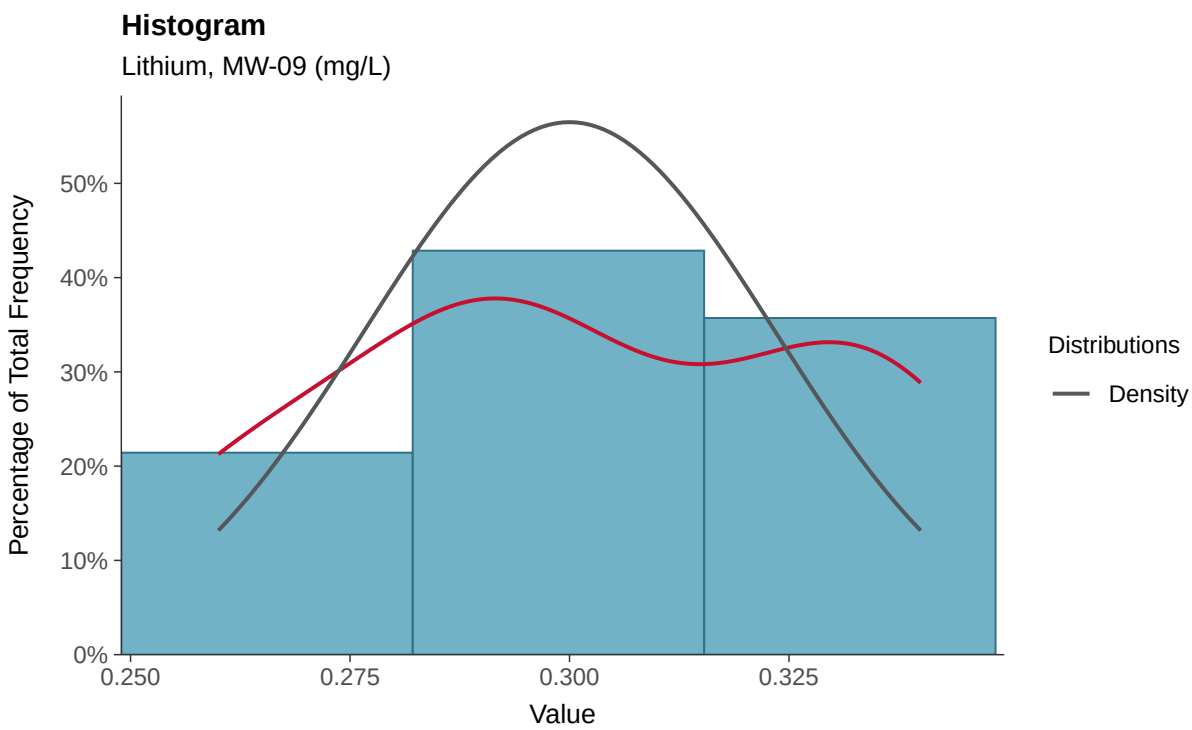
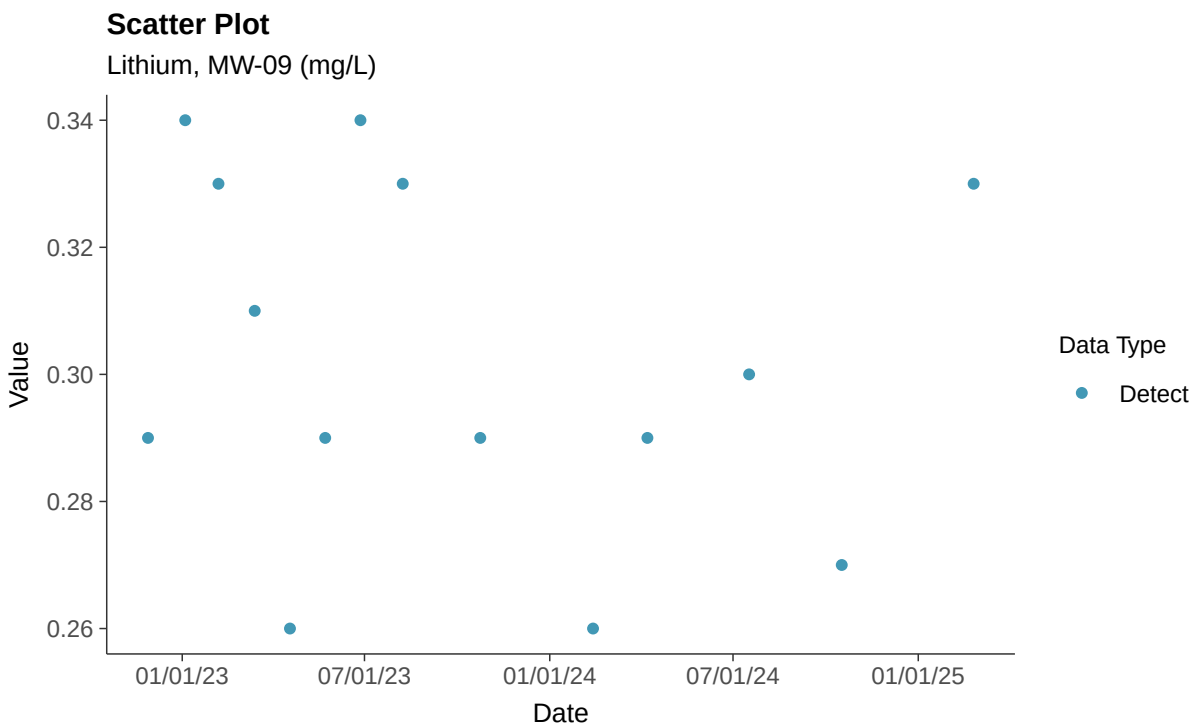


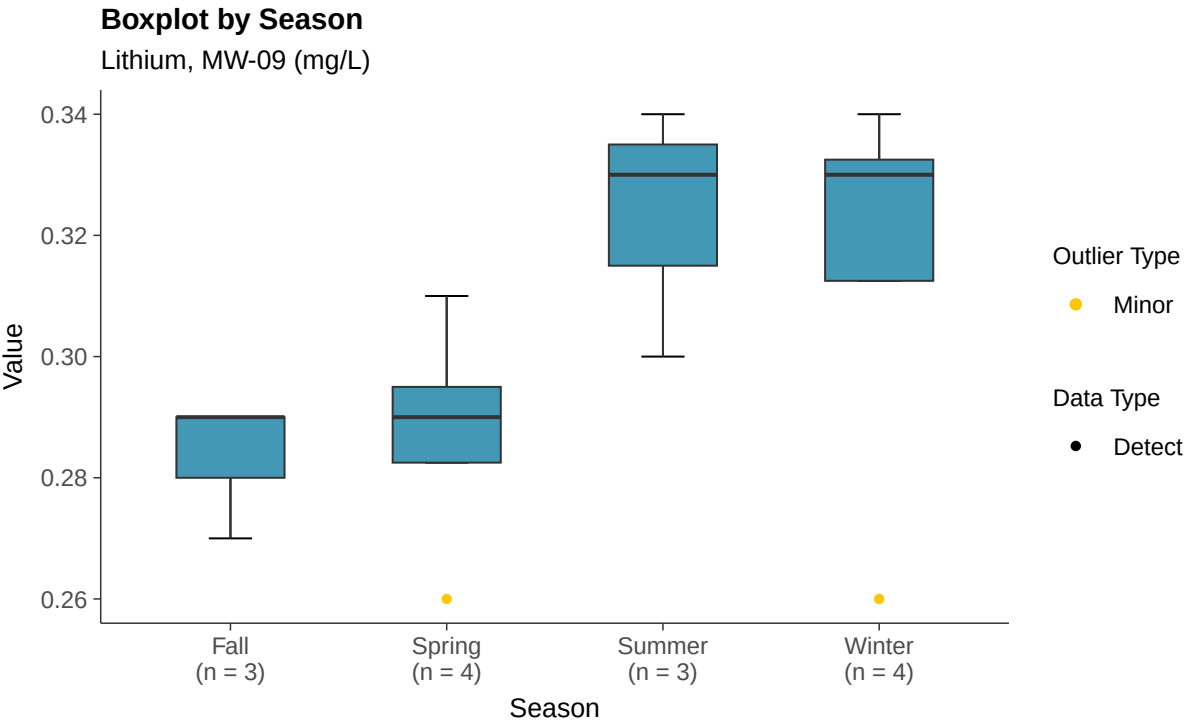
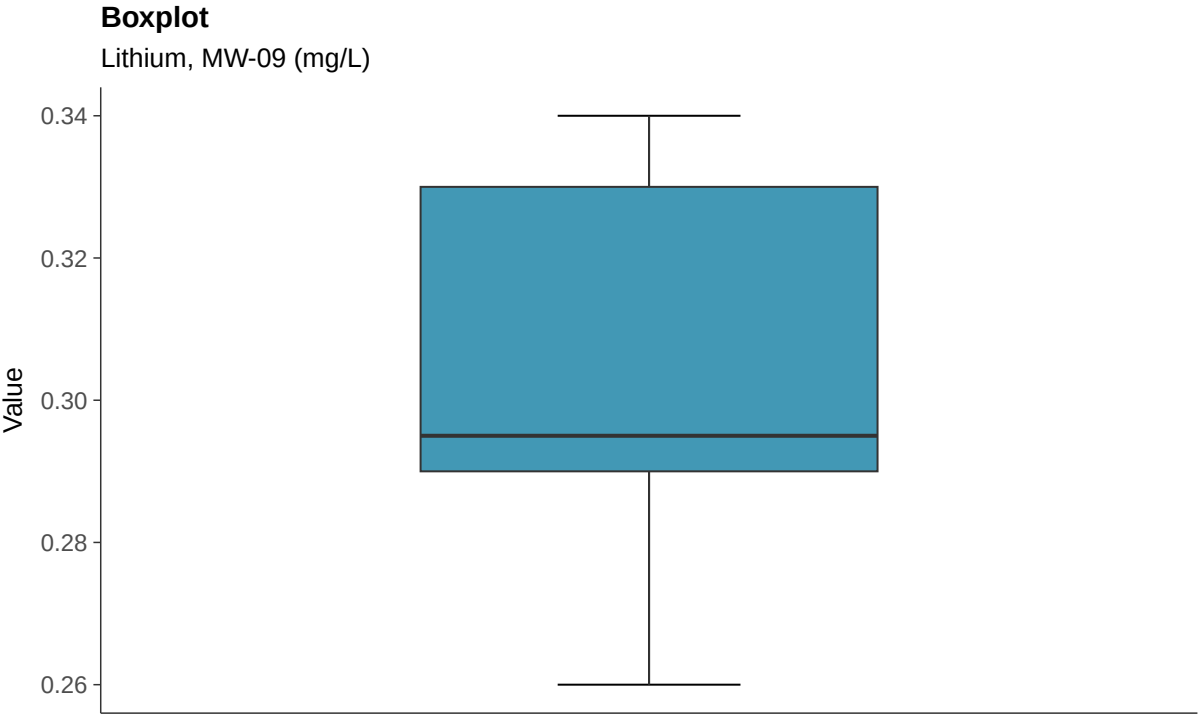


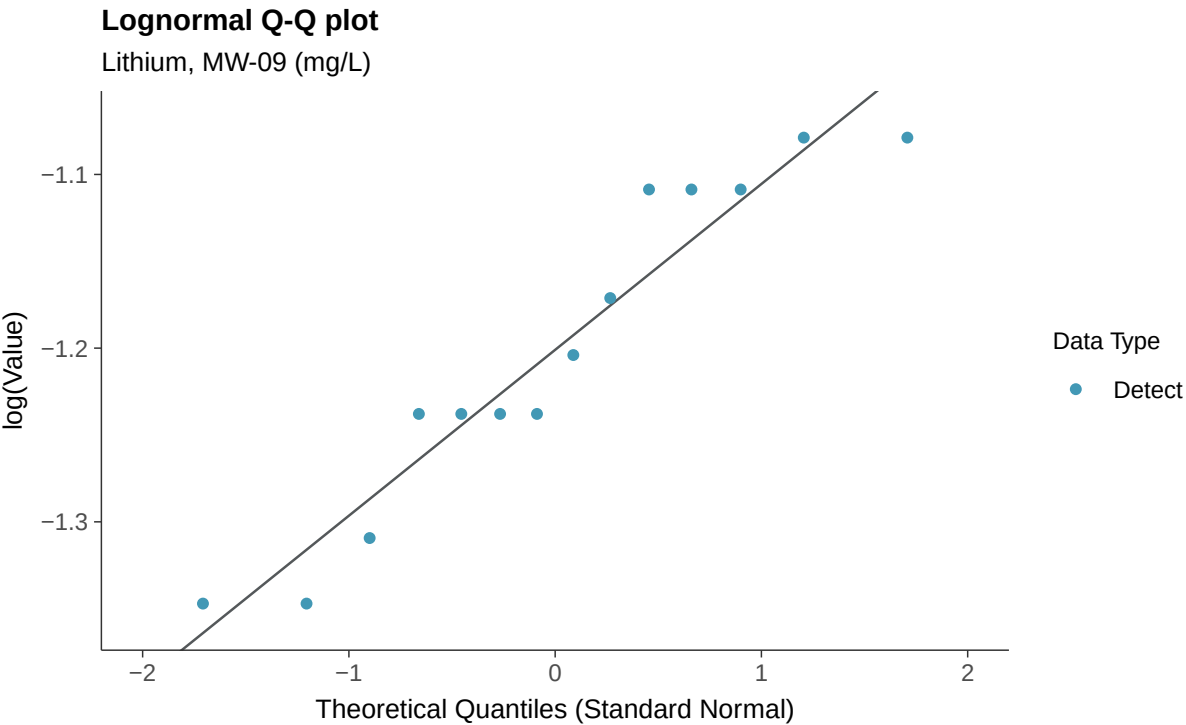
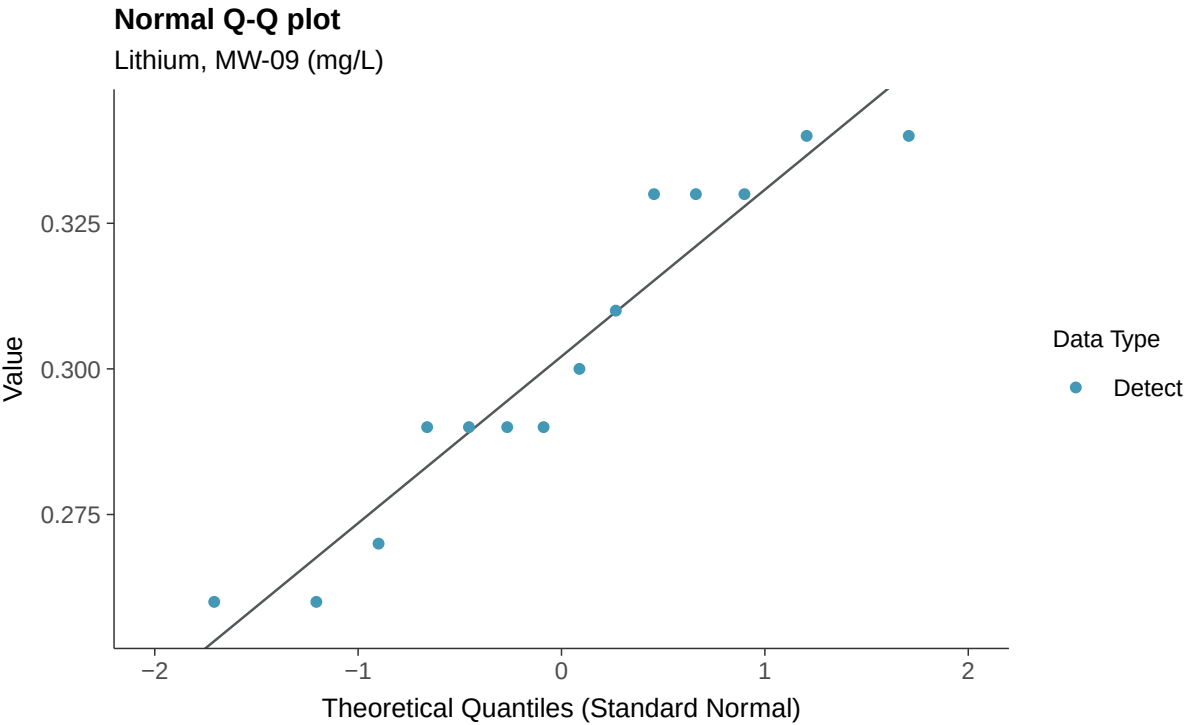


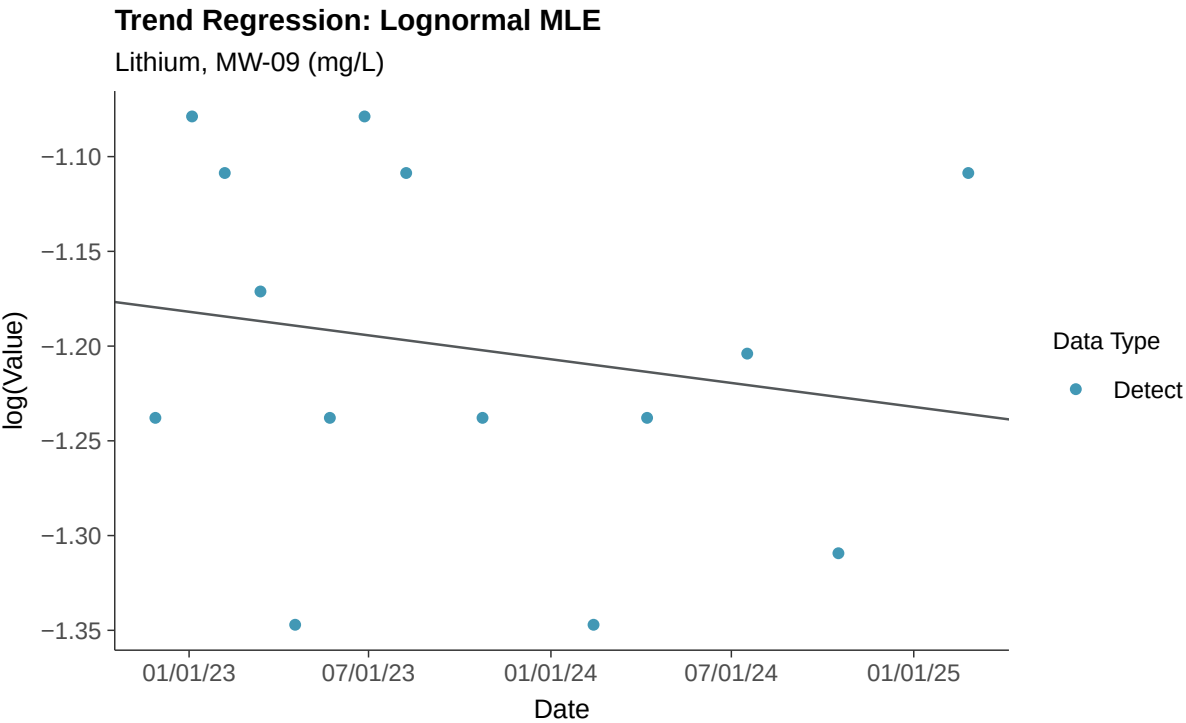
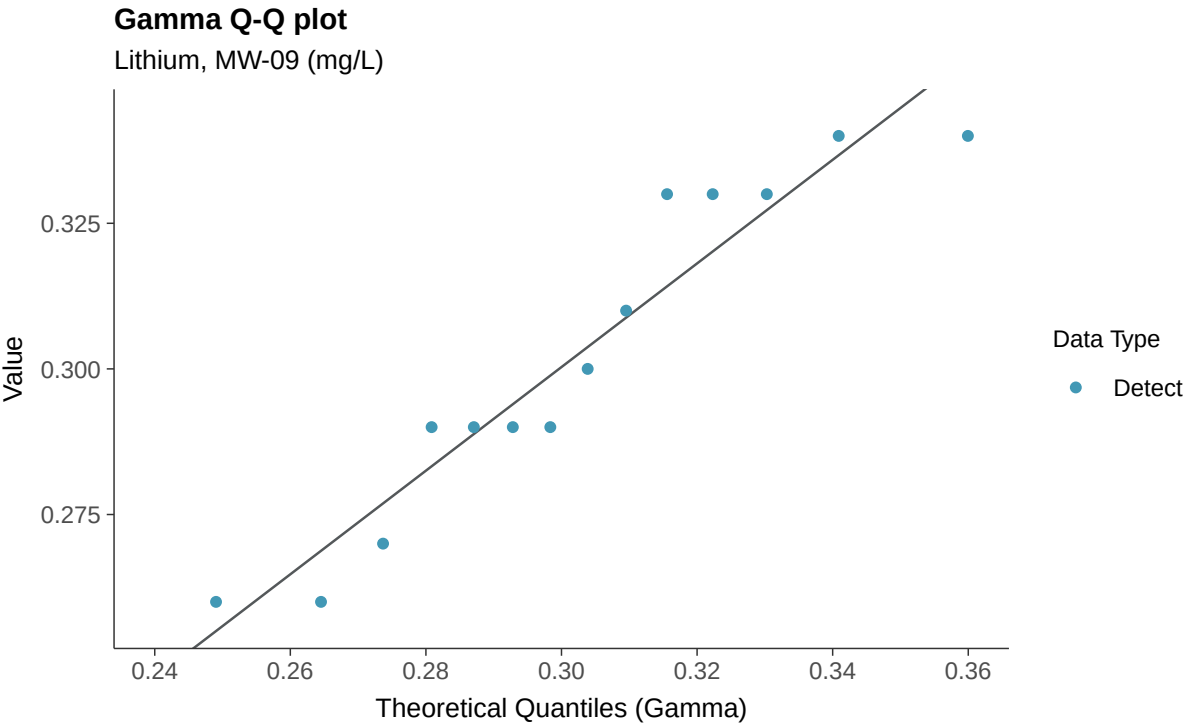
Appendix IV: Lithium, MW-09

ID: 19_2_4_116





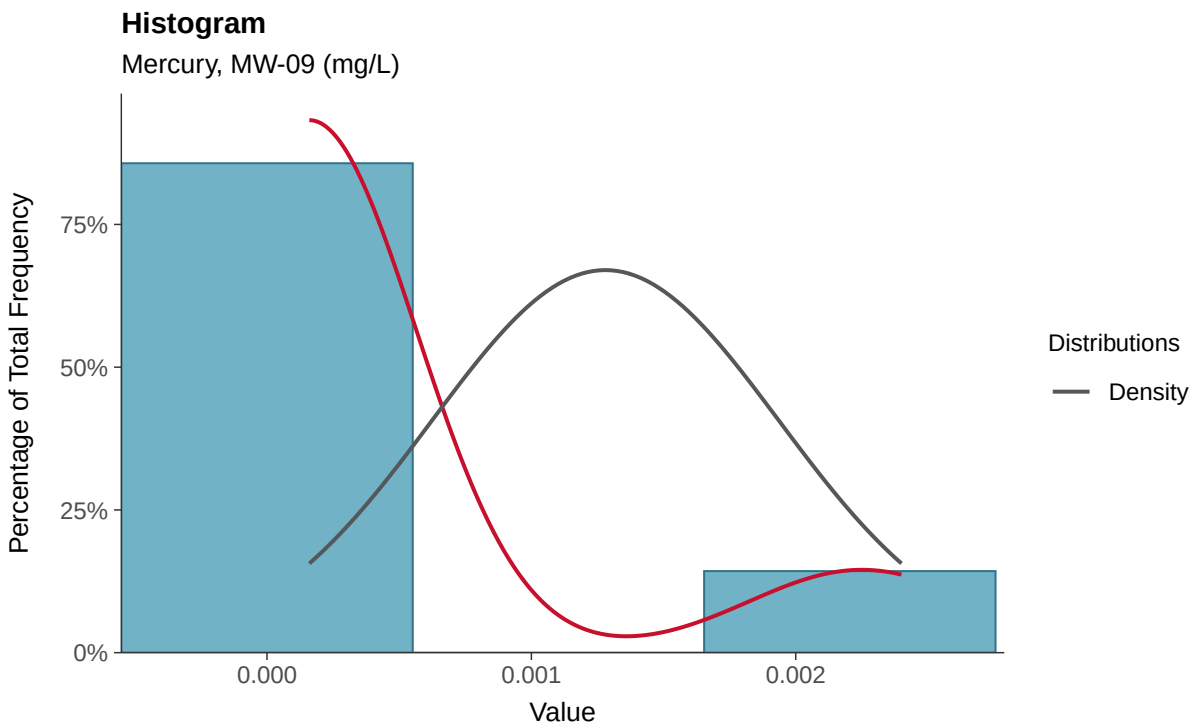
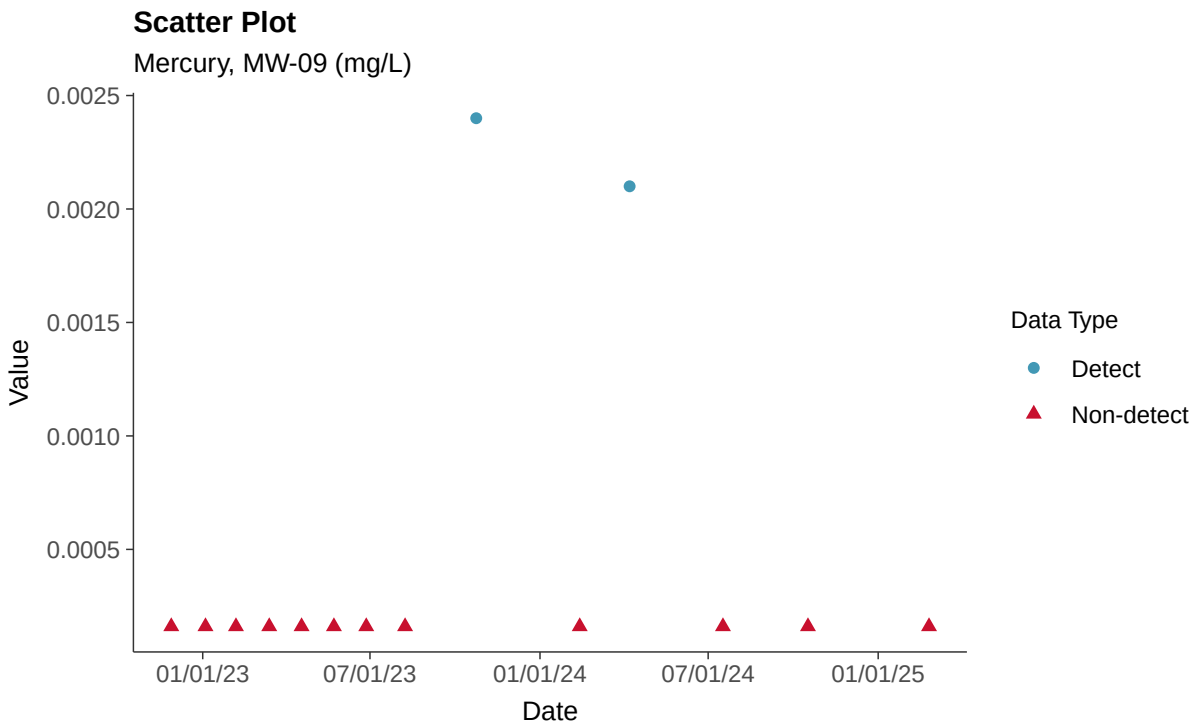


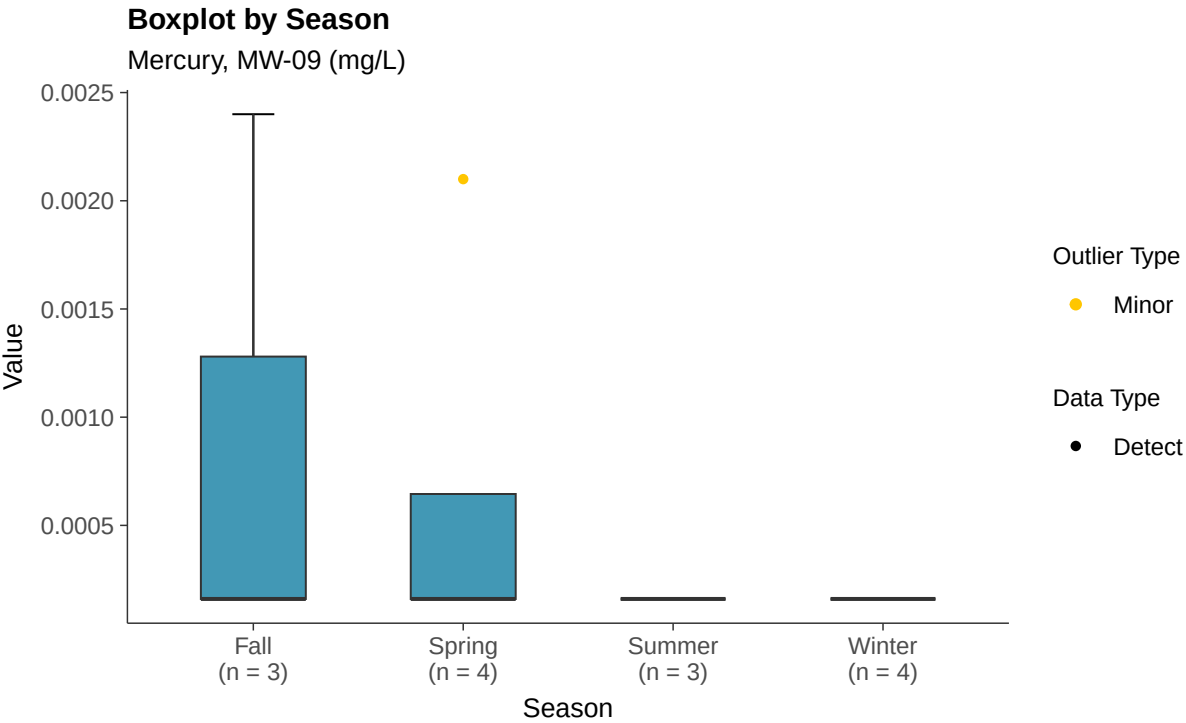
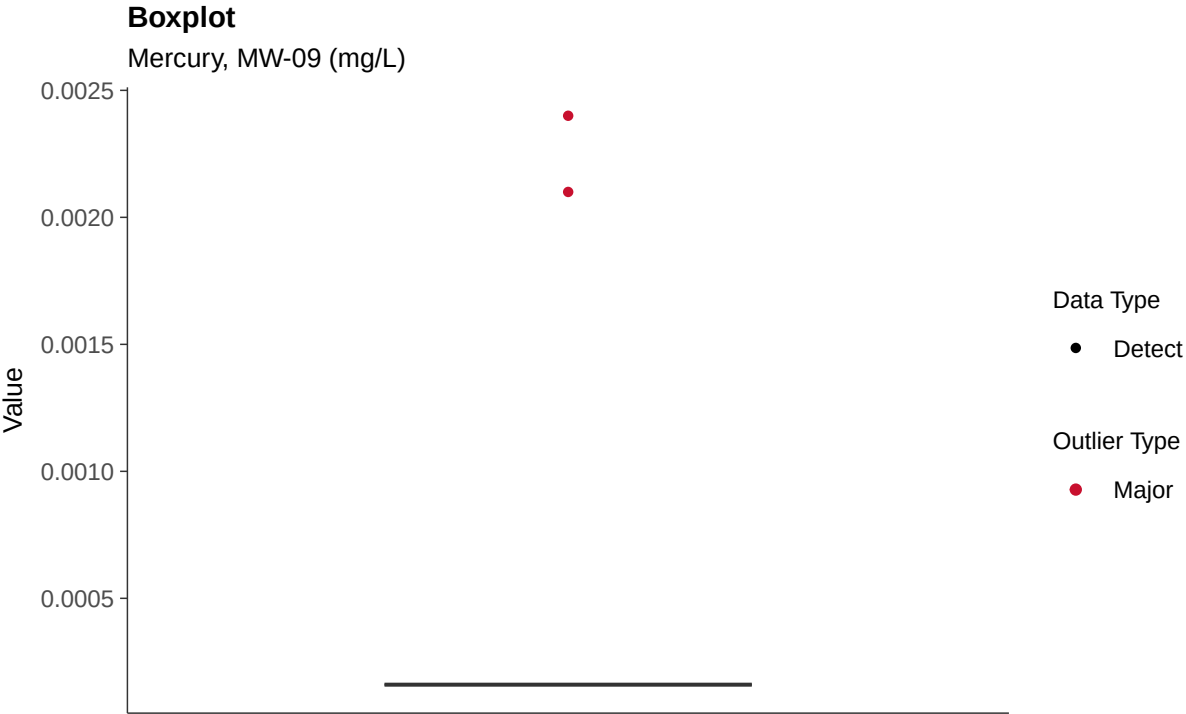


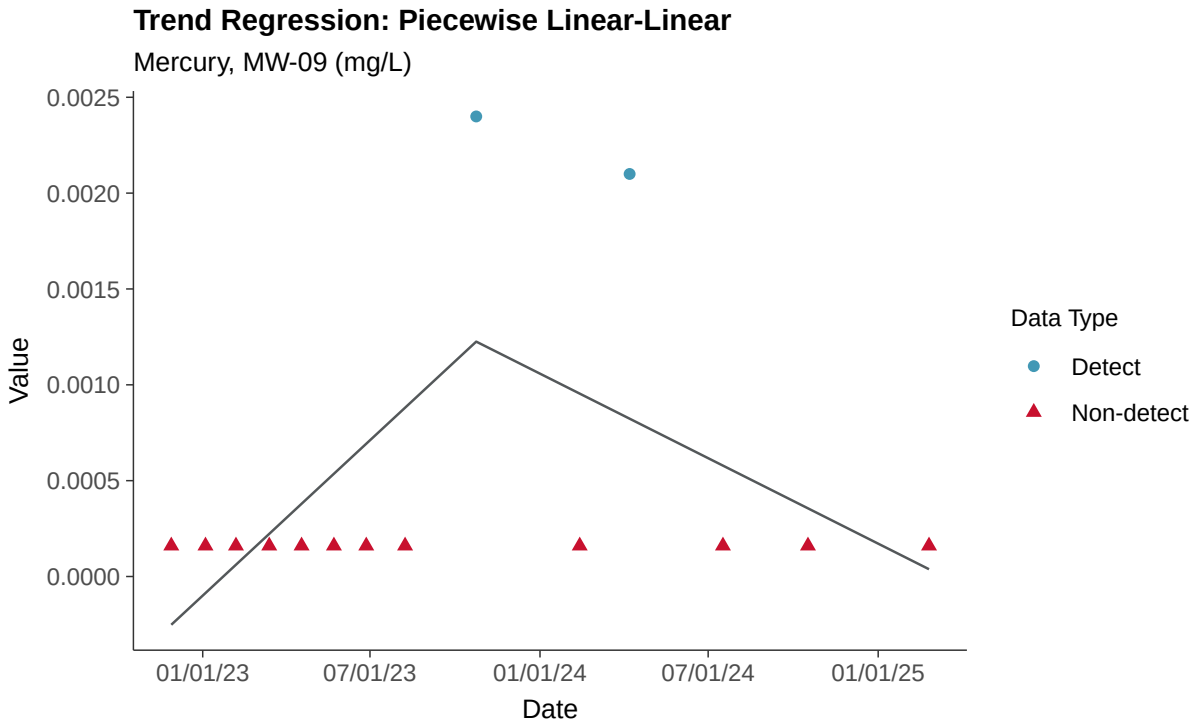
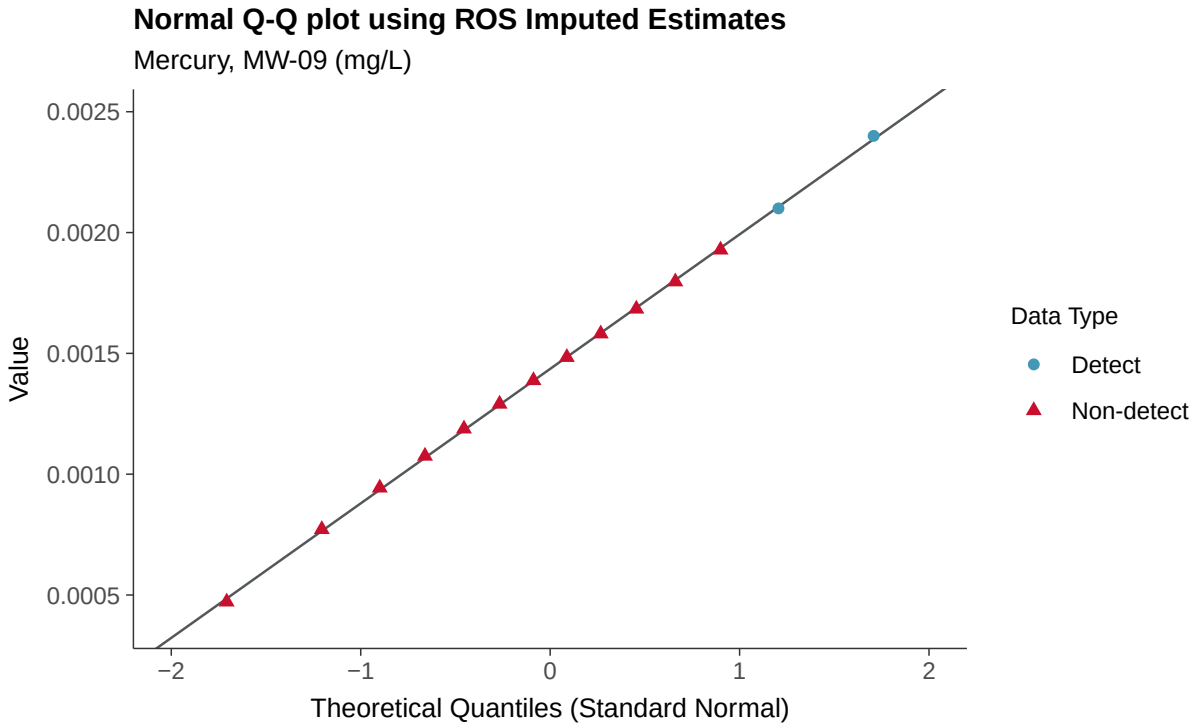


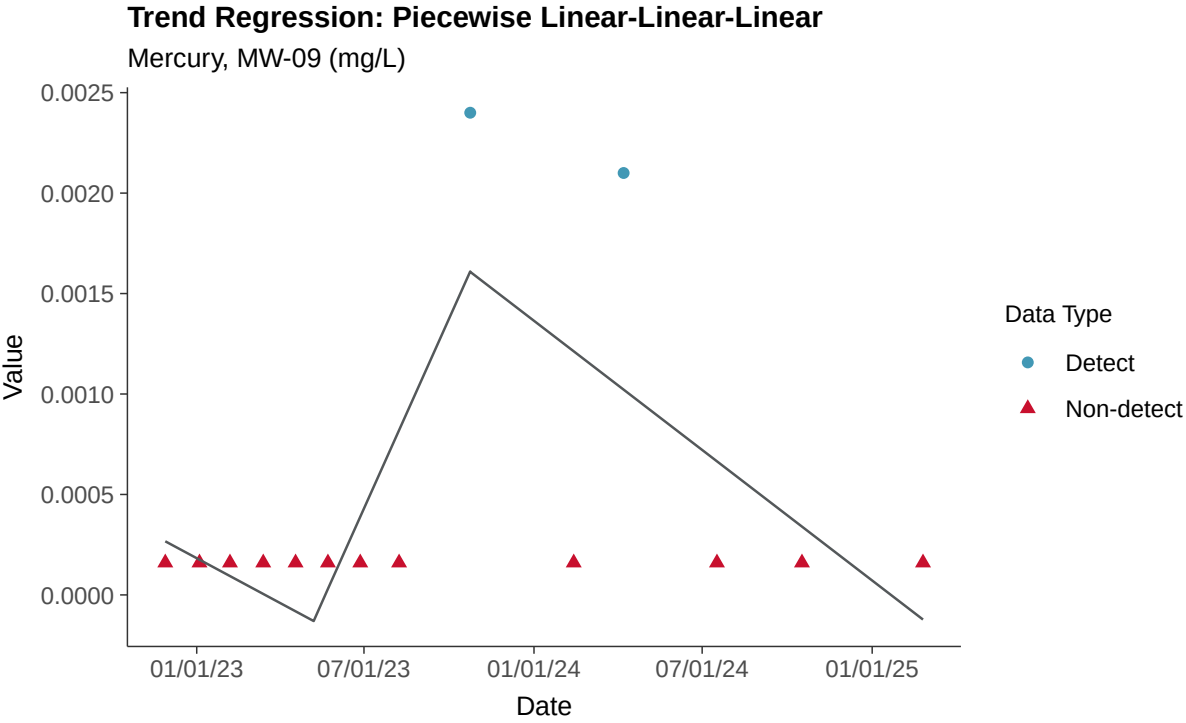
Appendix IV: Mercury, MW-09

ID: 19_2_4_117





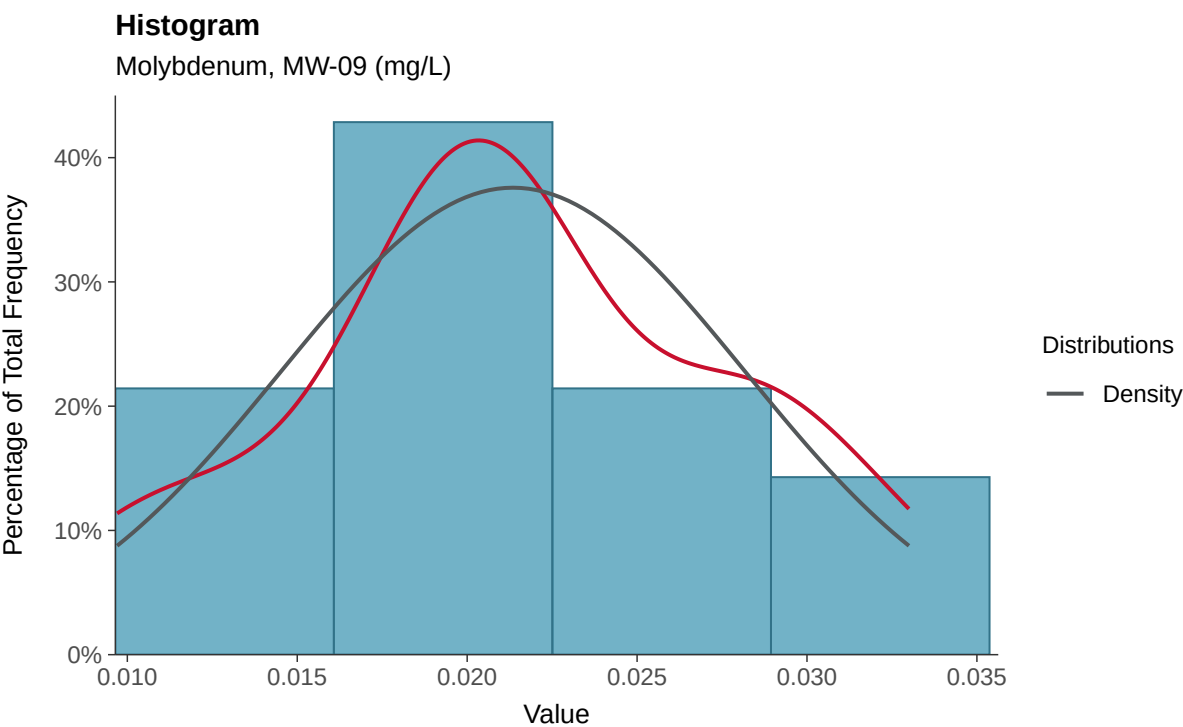
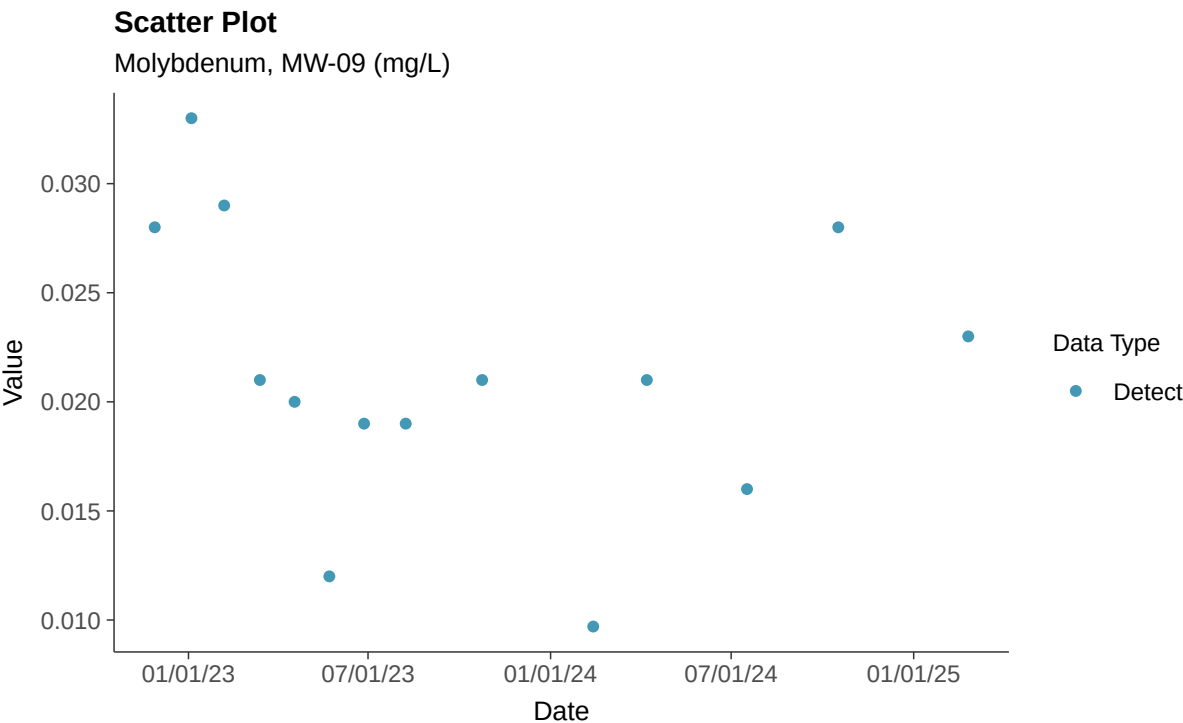


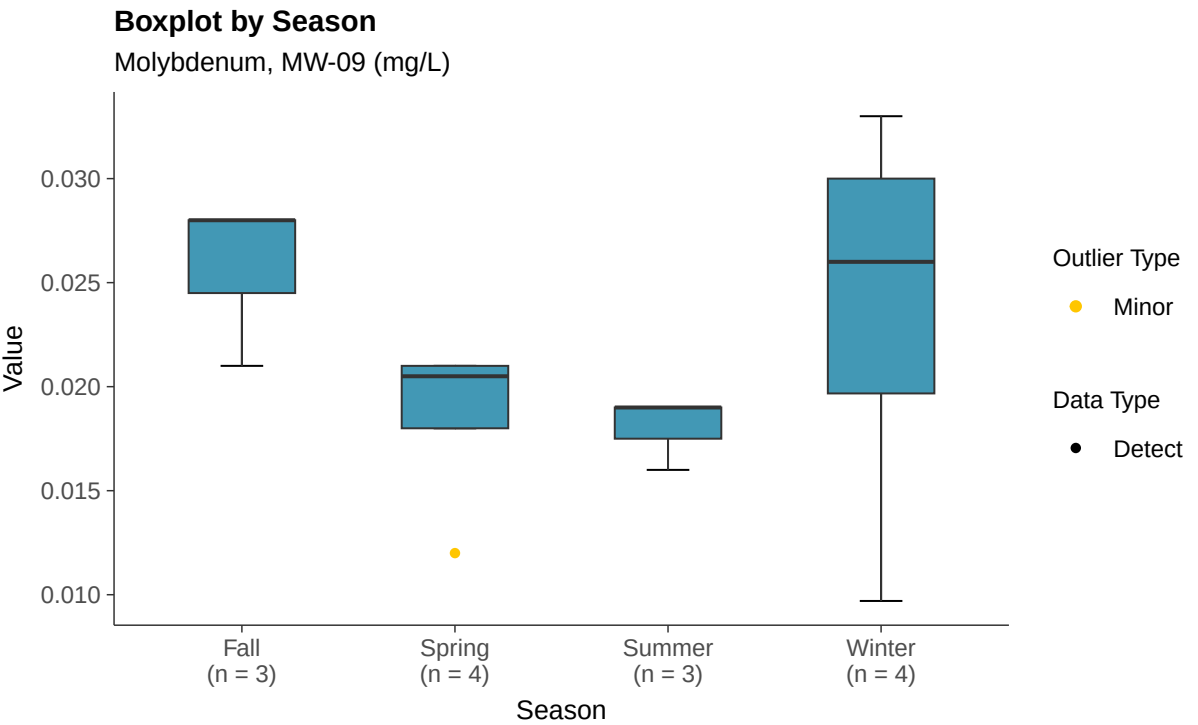
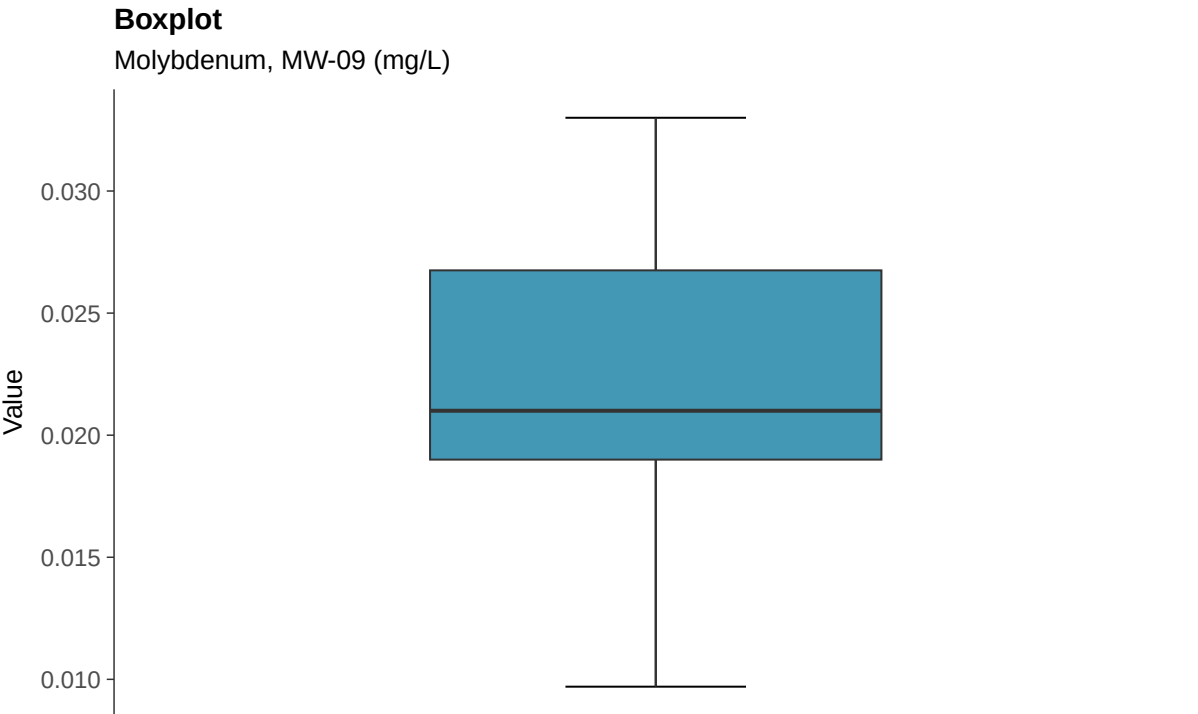


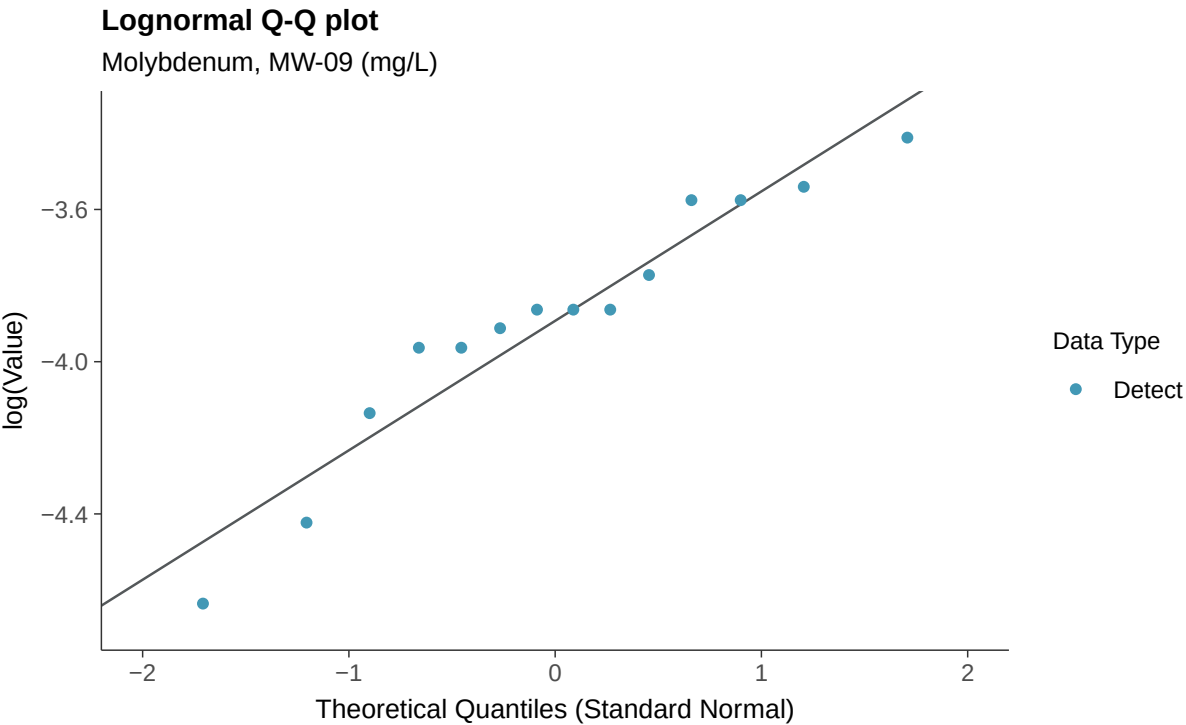
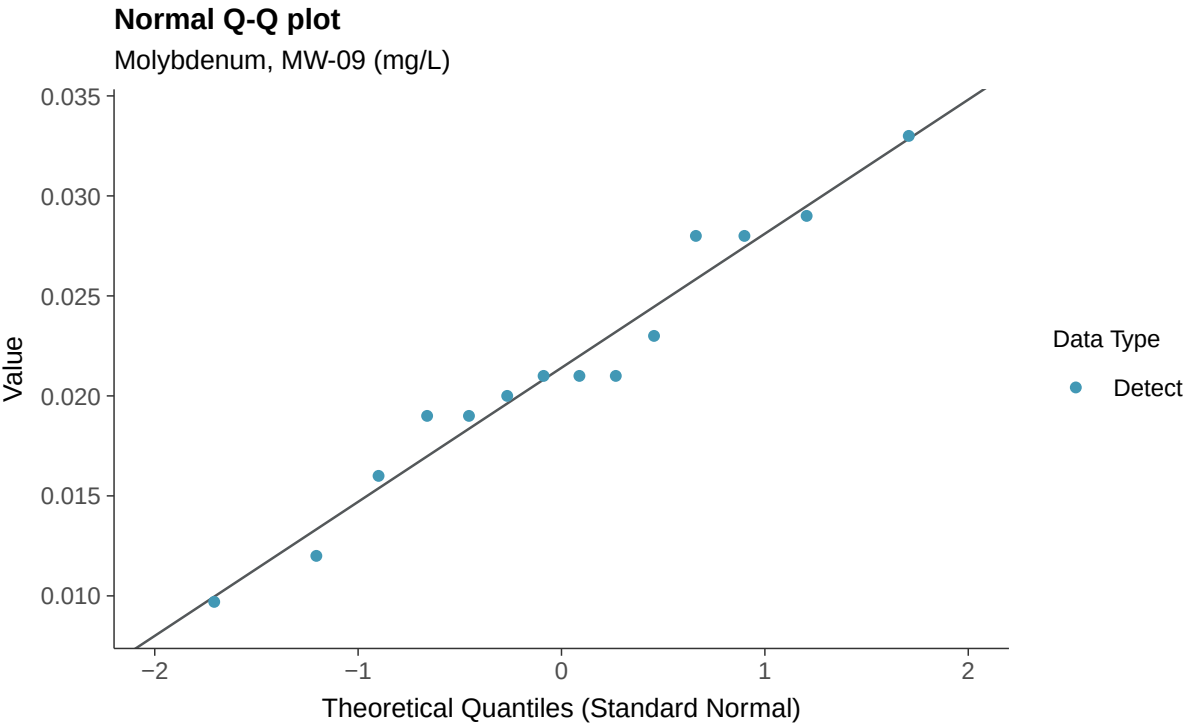


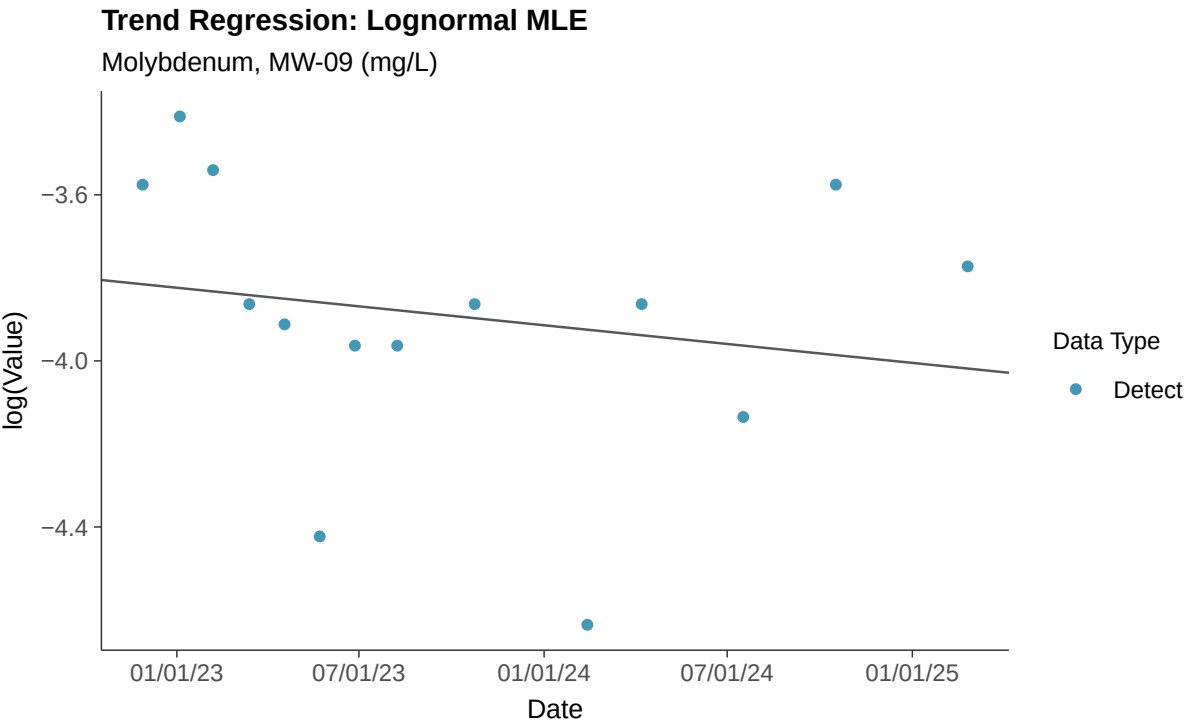
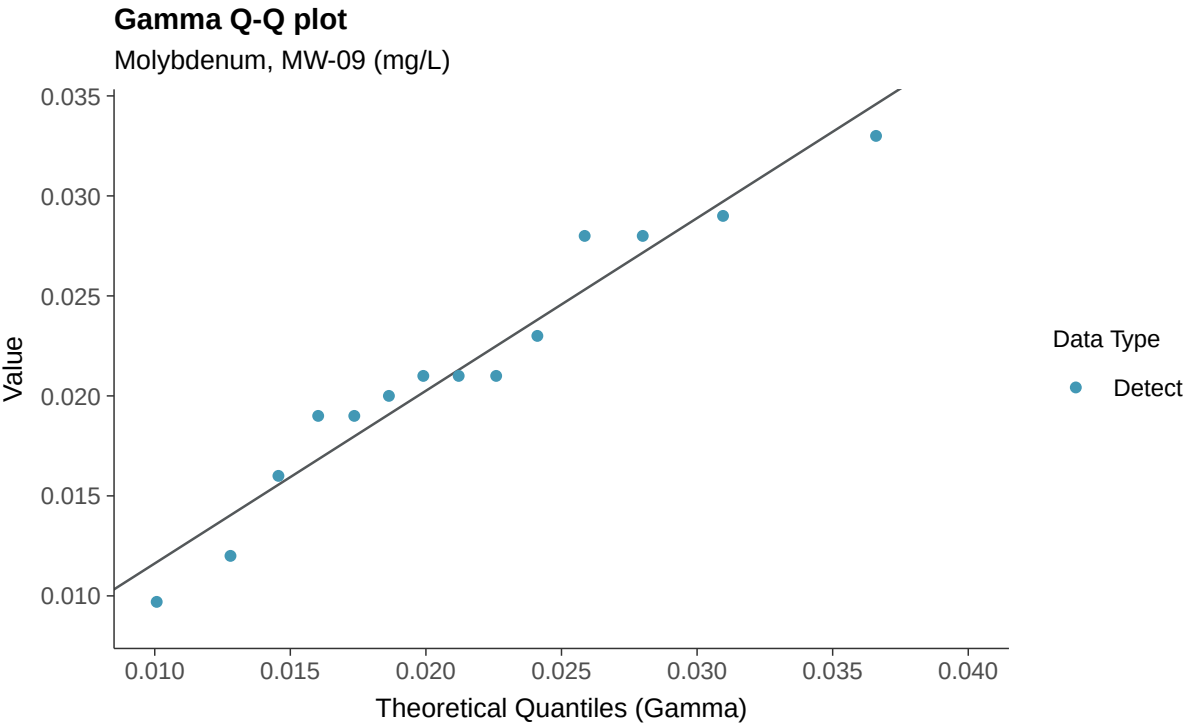
Appendix IV: Molybdenum, MW-09

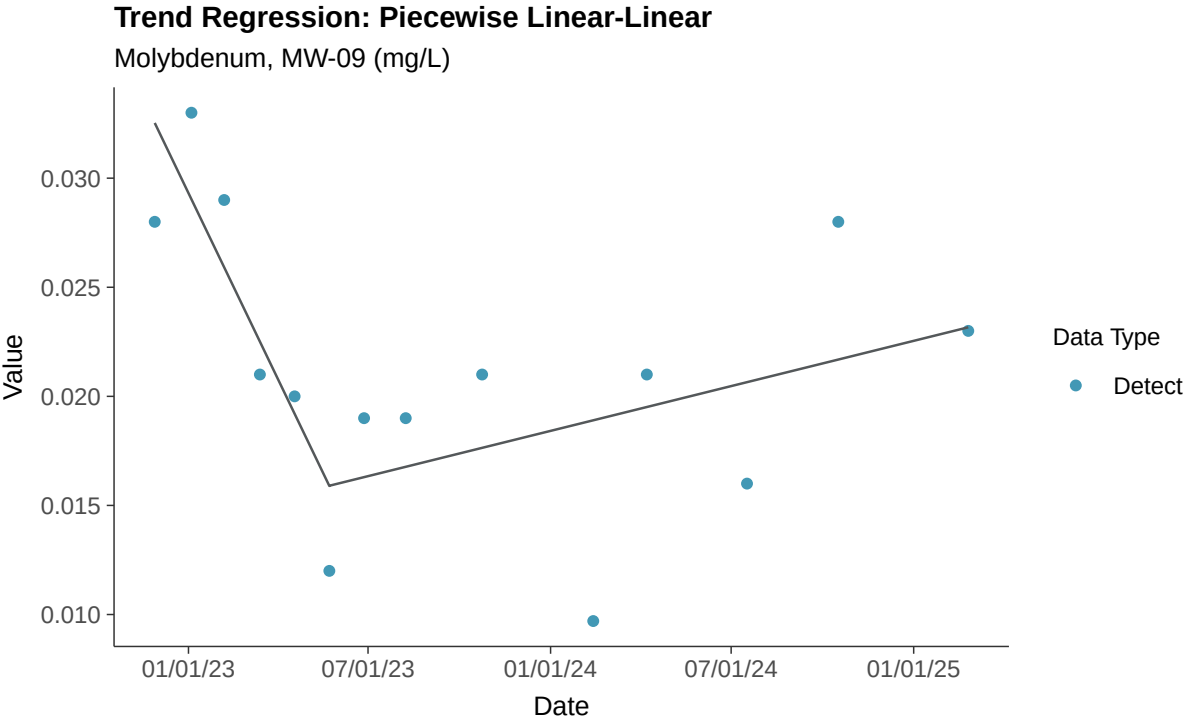
ID: 19_2_4_118







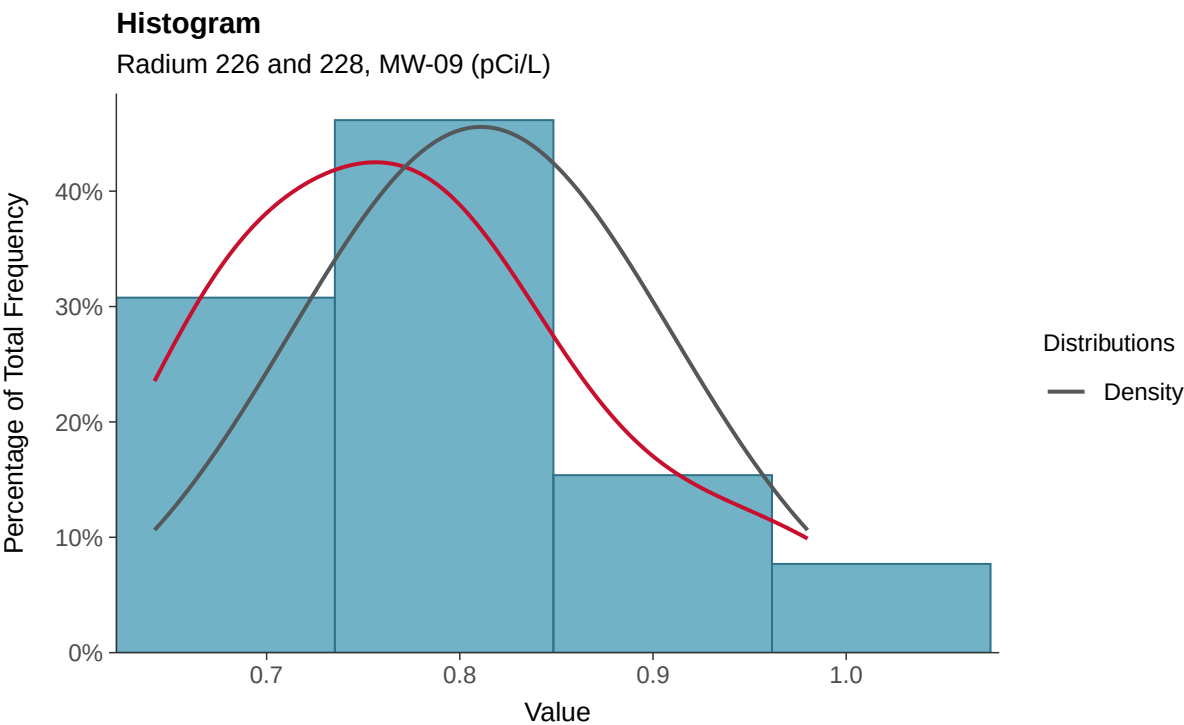
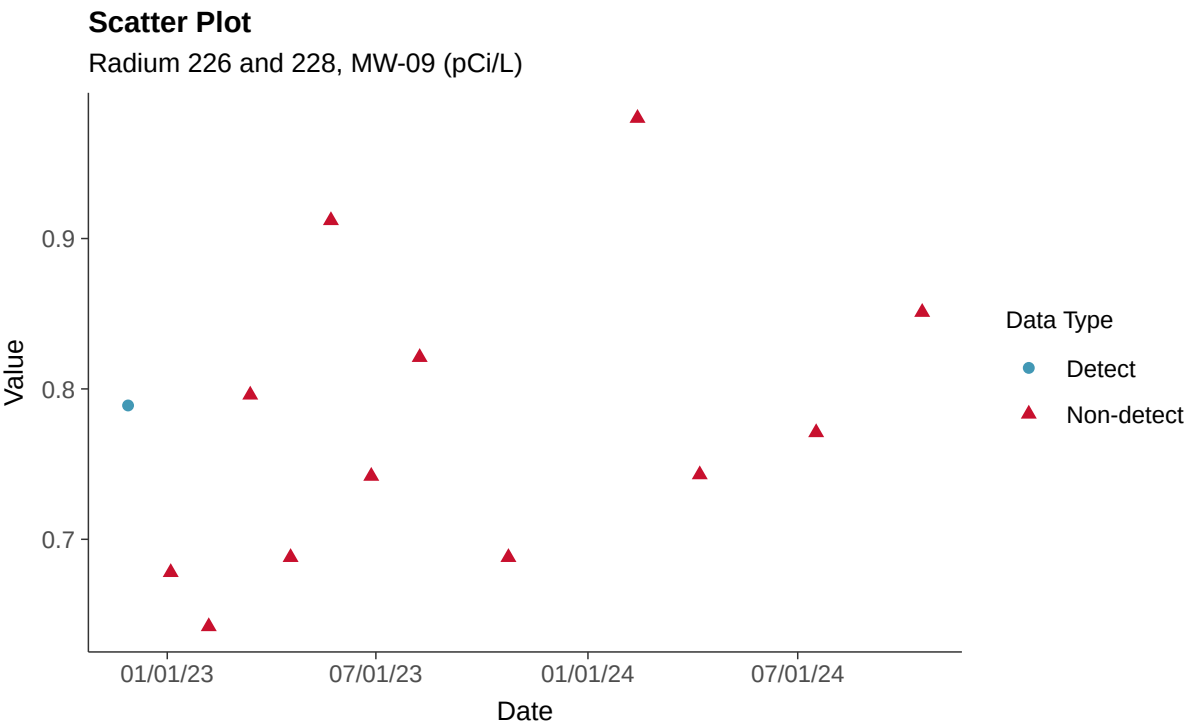






Appendix IV: Radium 226 and 228, MW-09

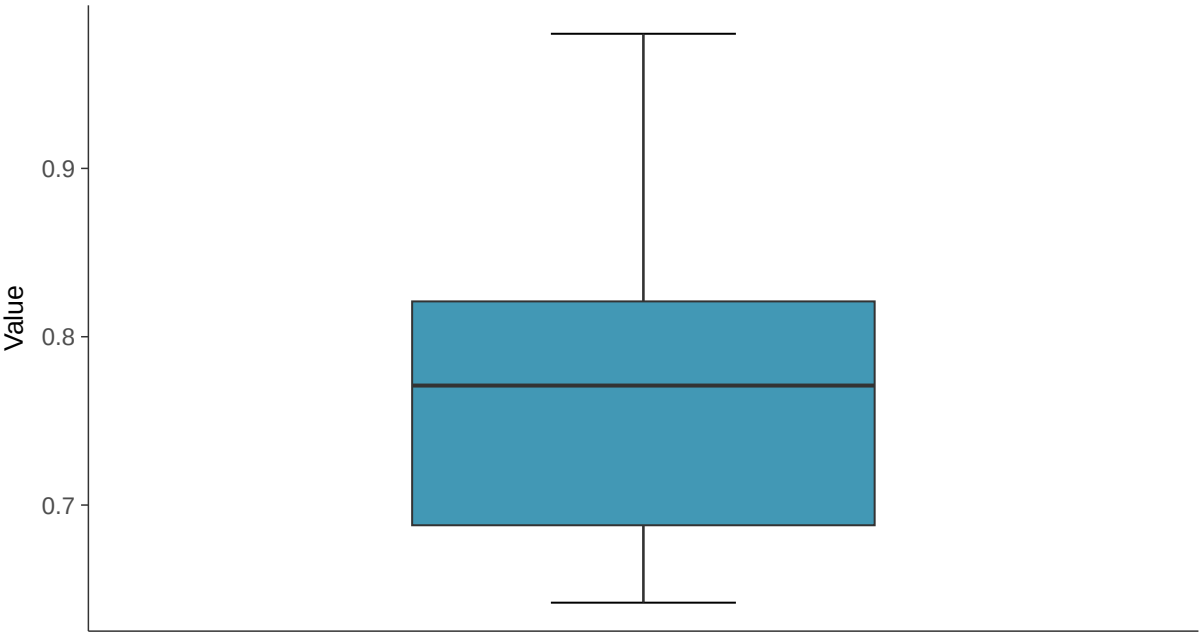
ID: 19_2_4_121





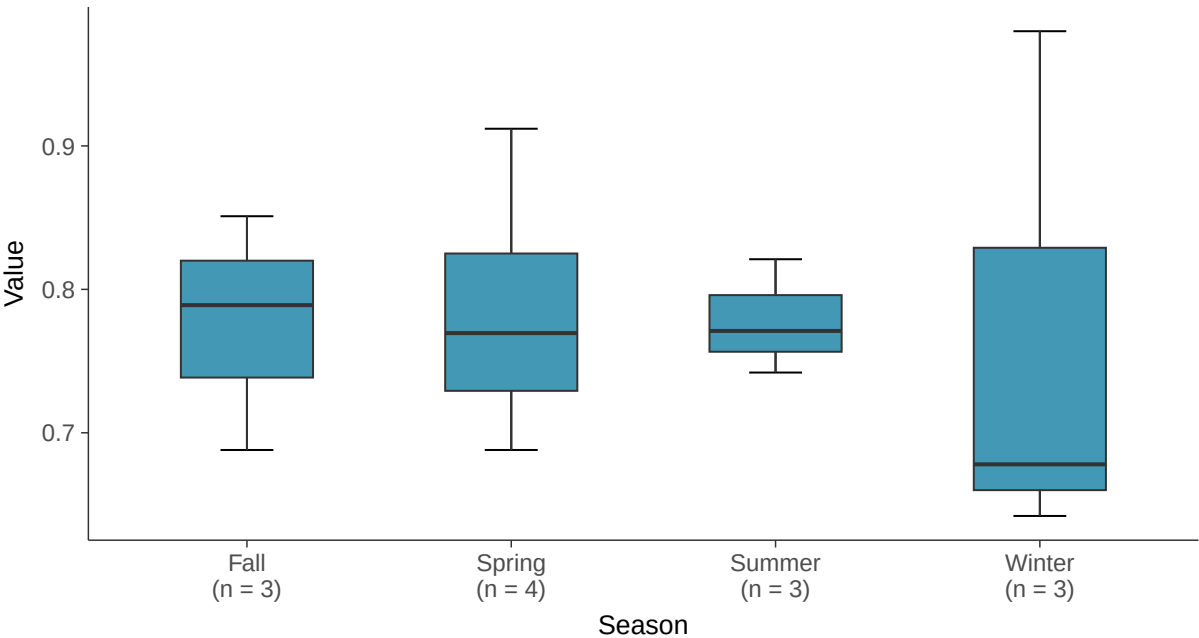
Boxplot

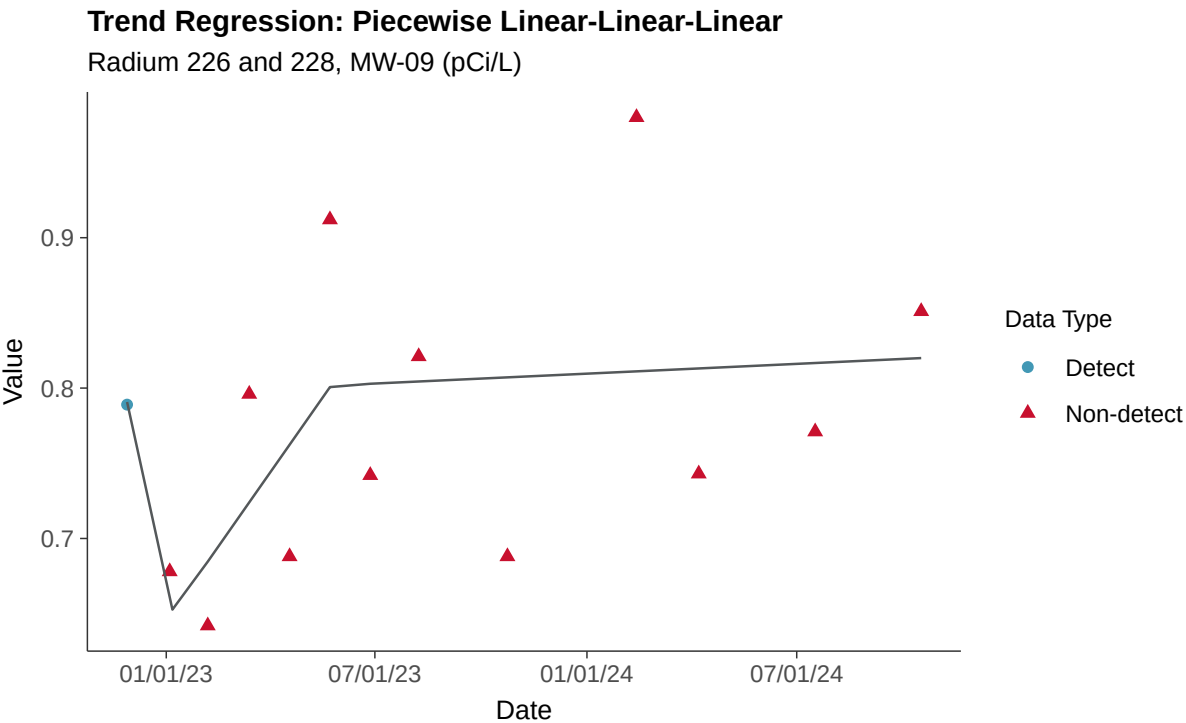
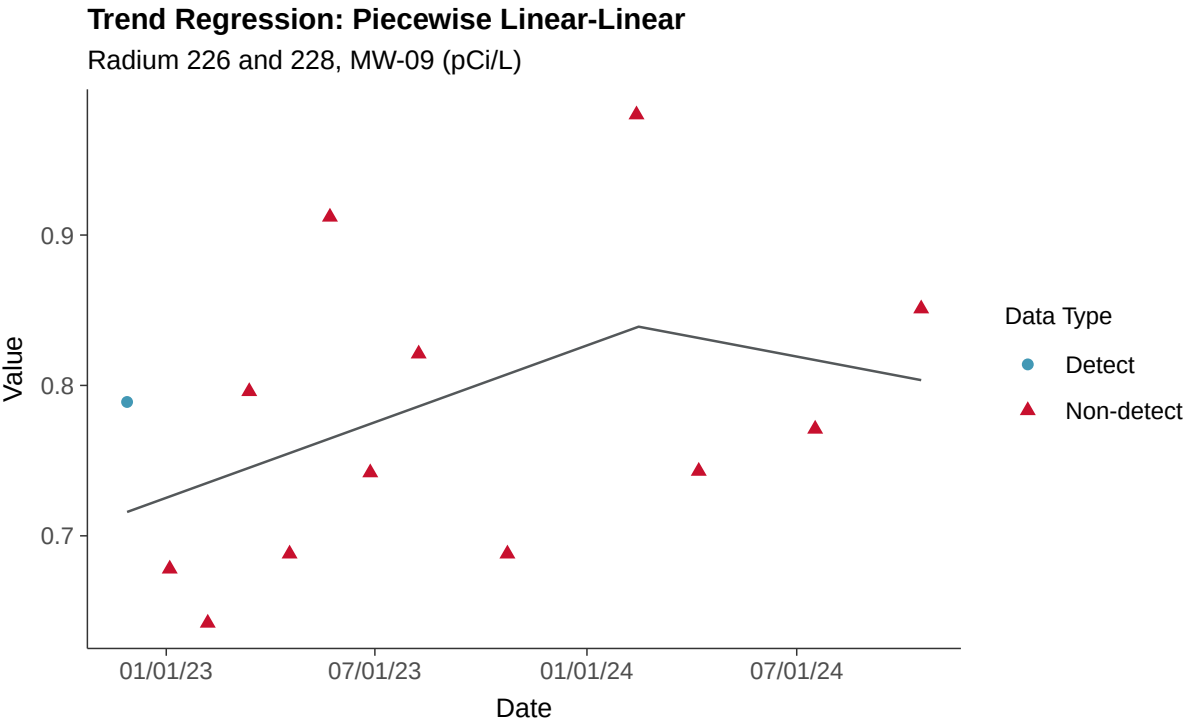
Radium 226 and 228, MW-09 (pCi/L)



Boxplot by Season

Radium 226 and 228, MW-09 (pCi/L)

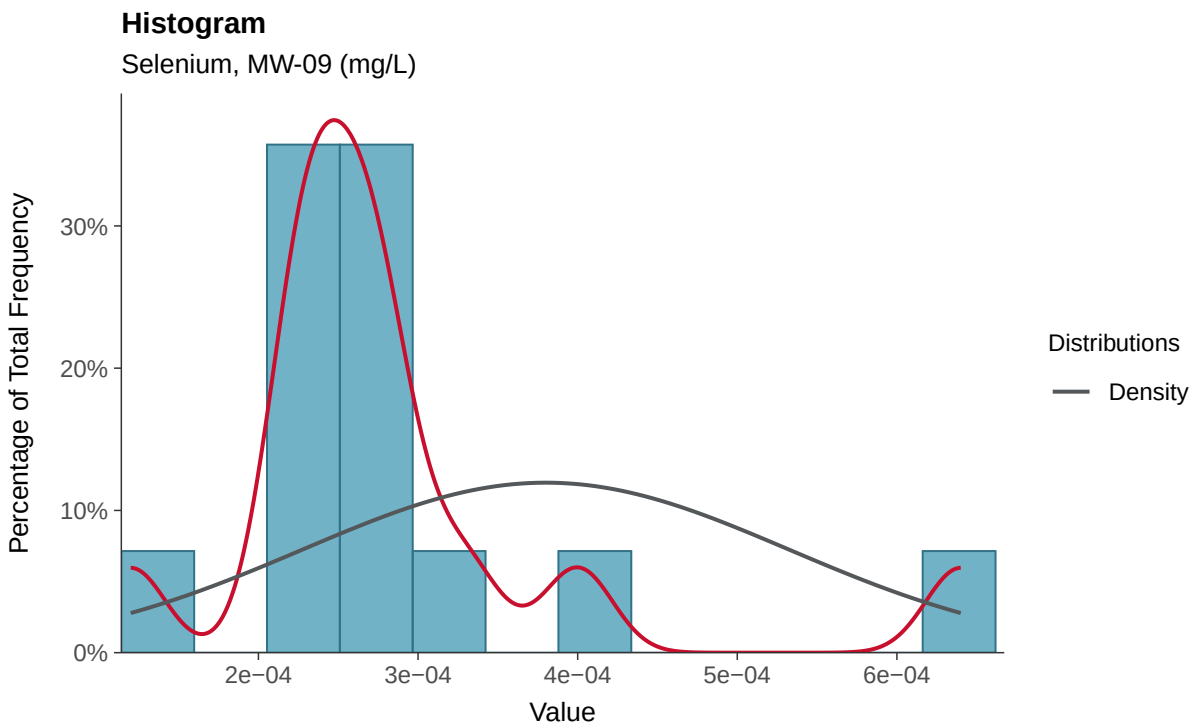
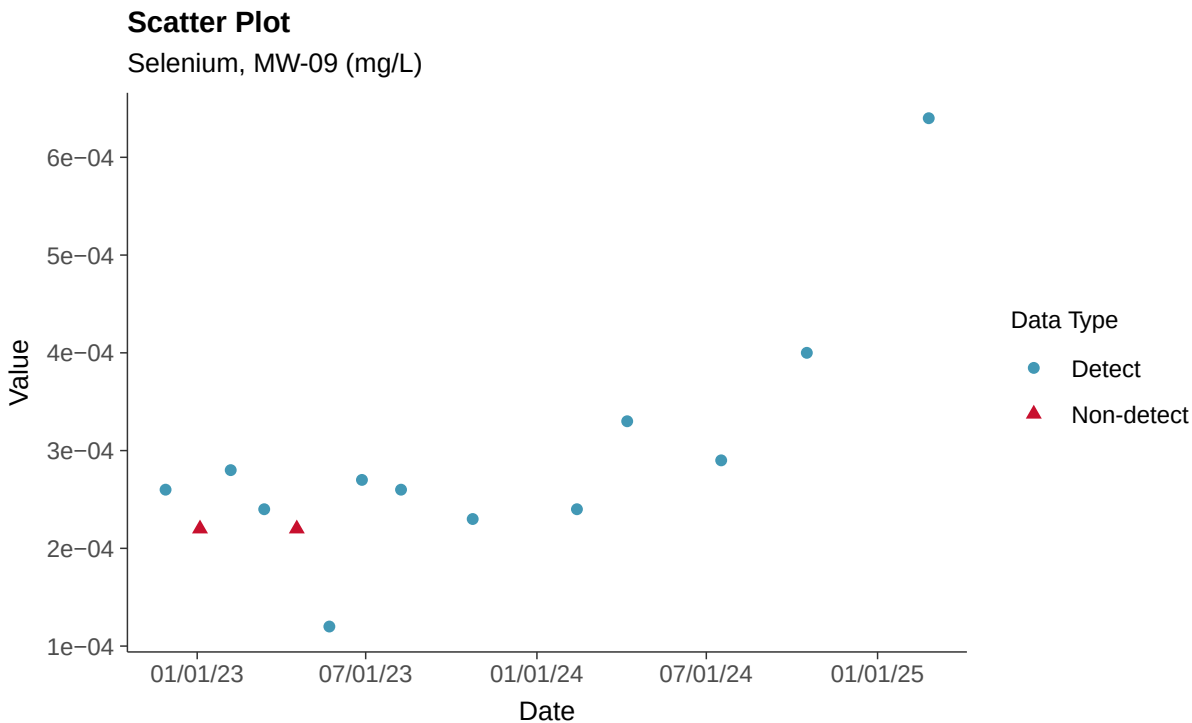


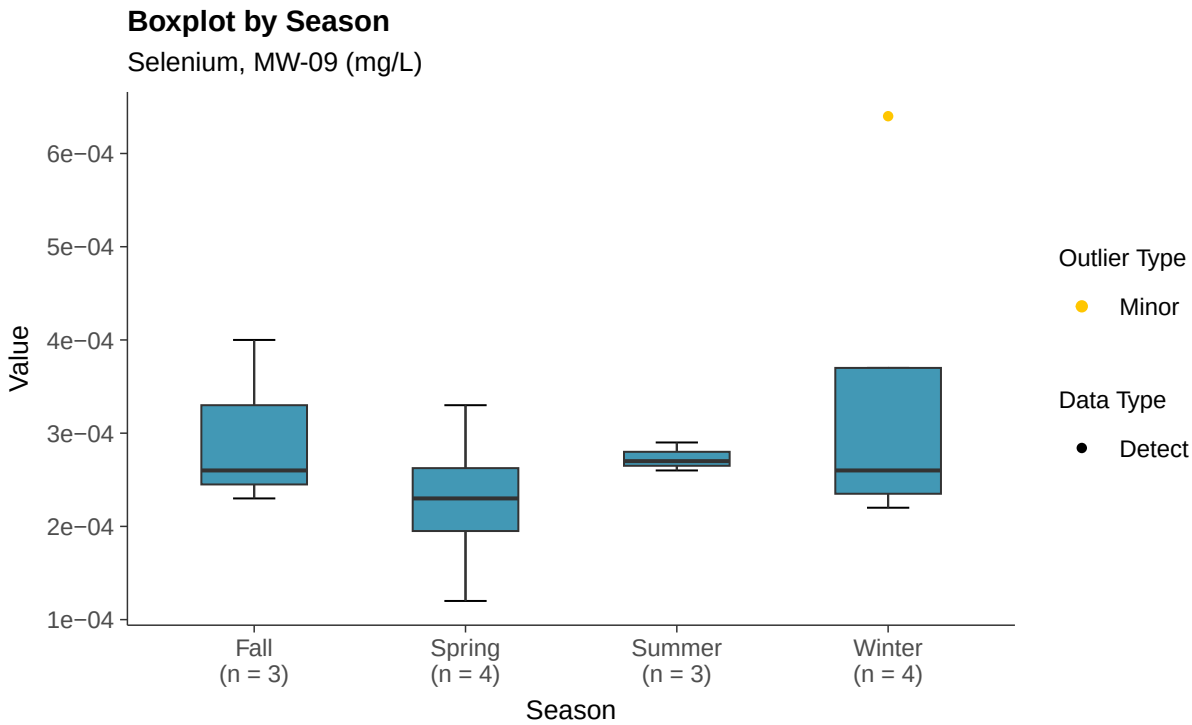
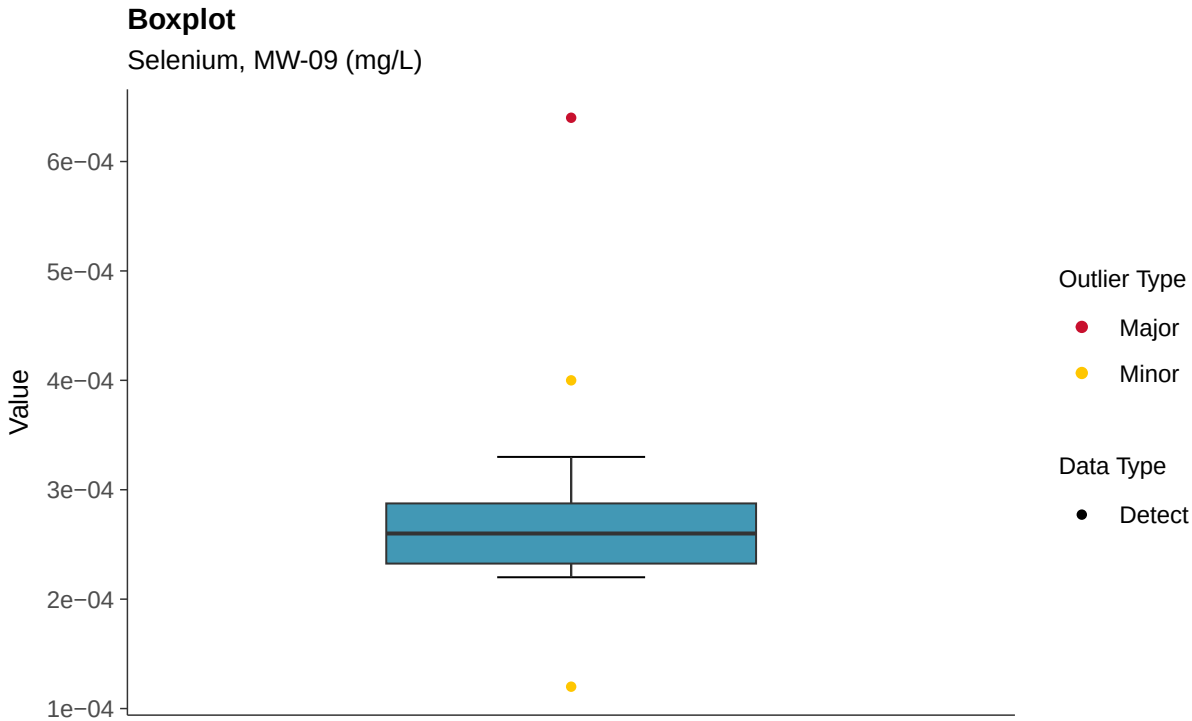




Appendix IV: Selenium, MW-09

ID: 19_2_4_122

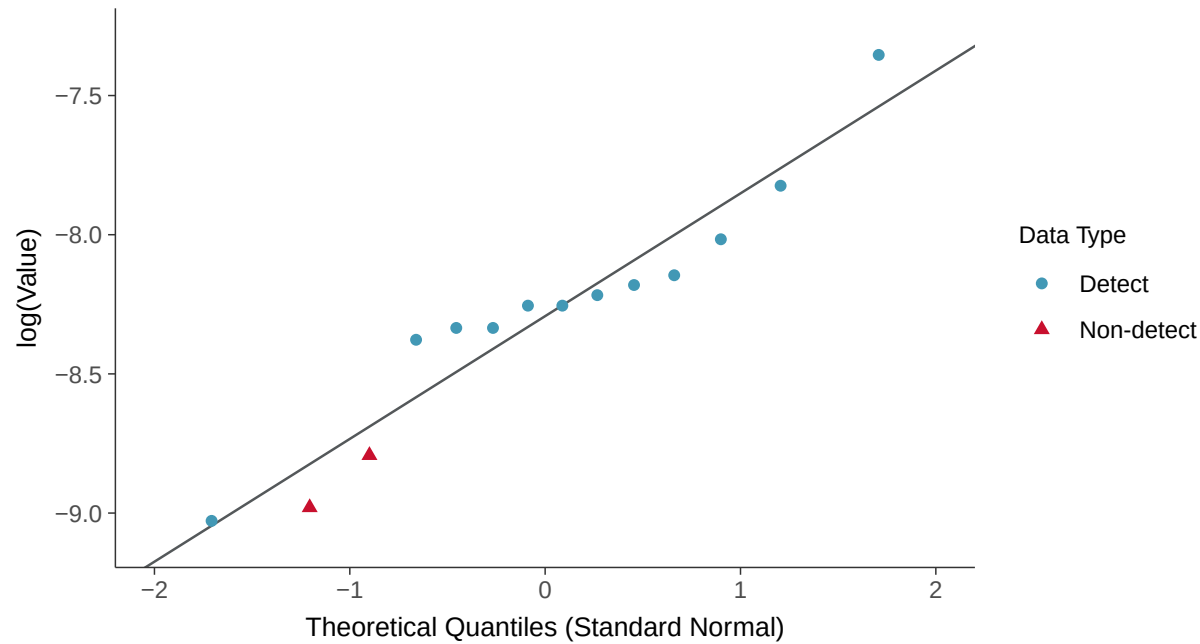






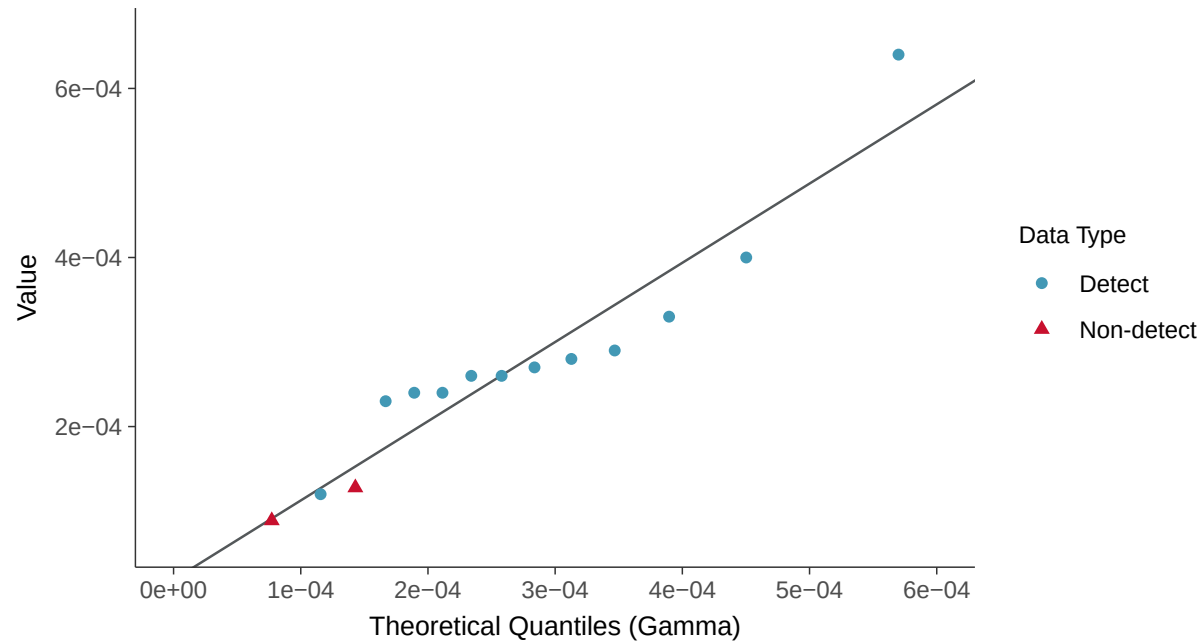
Lognormal Q-Q plot using ROS Imputed Estimates

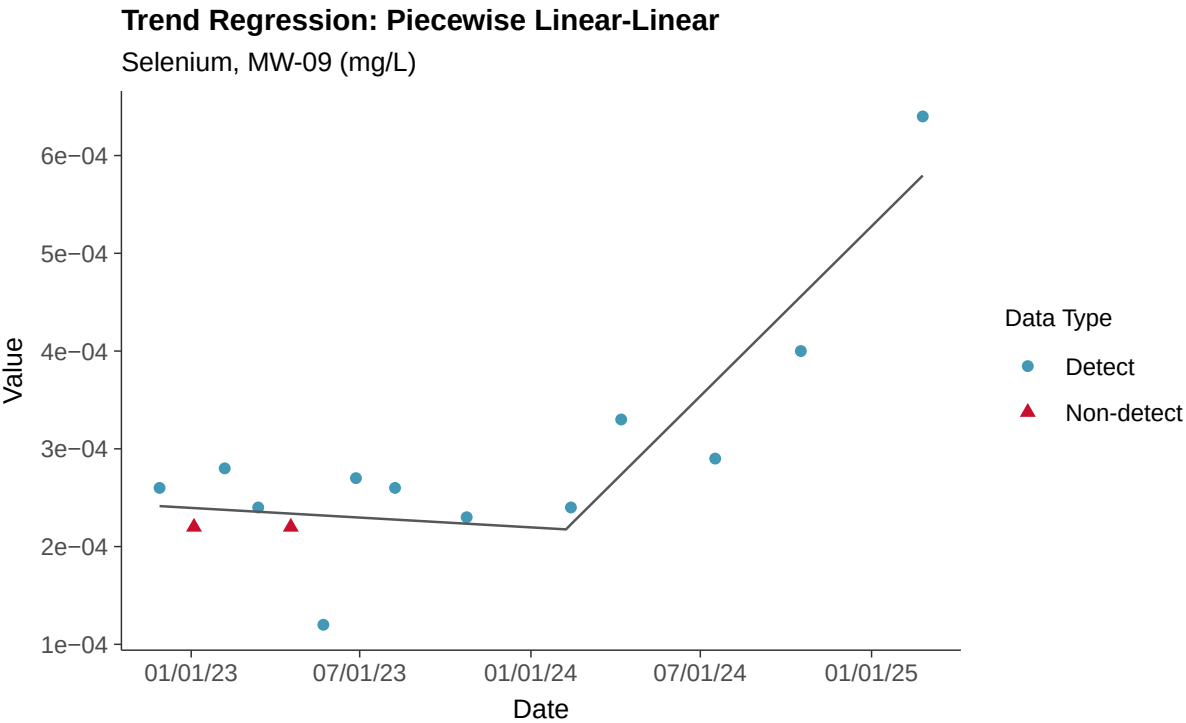
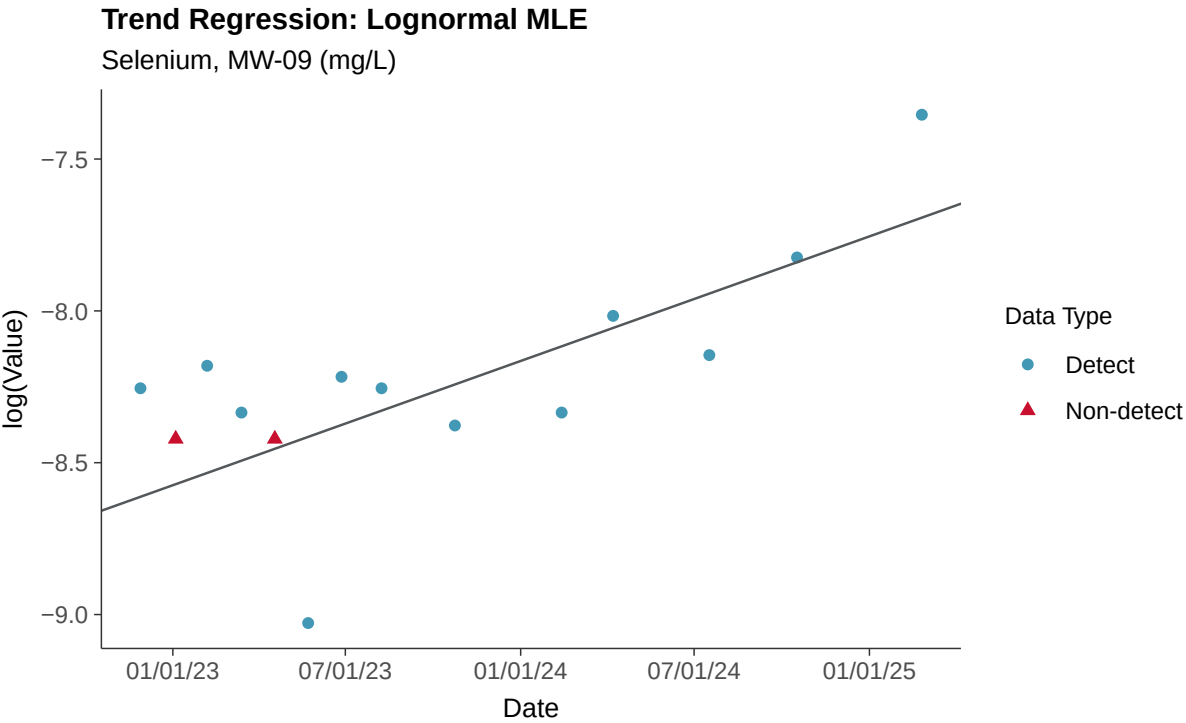
Selenium, MW-09 (mg/L)

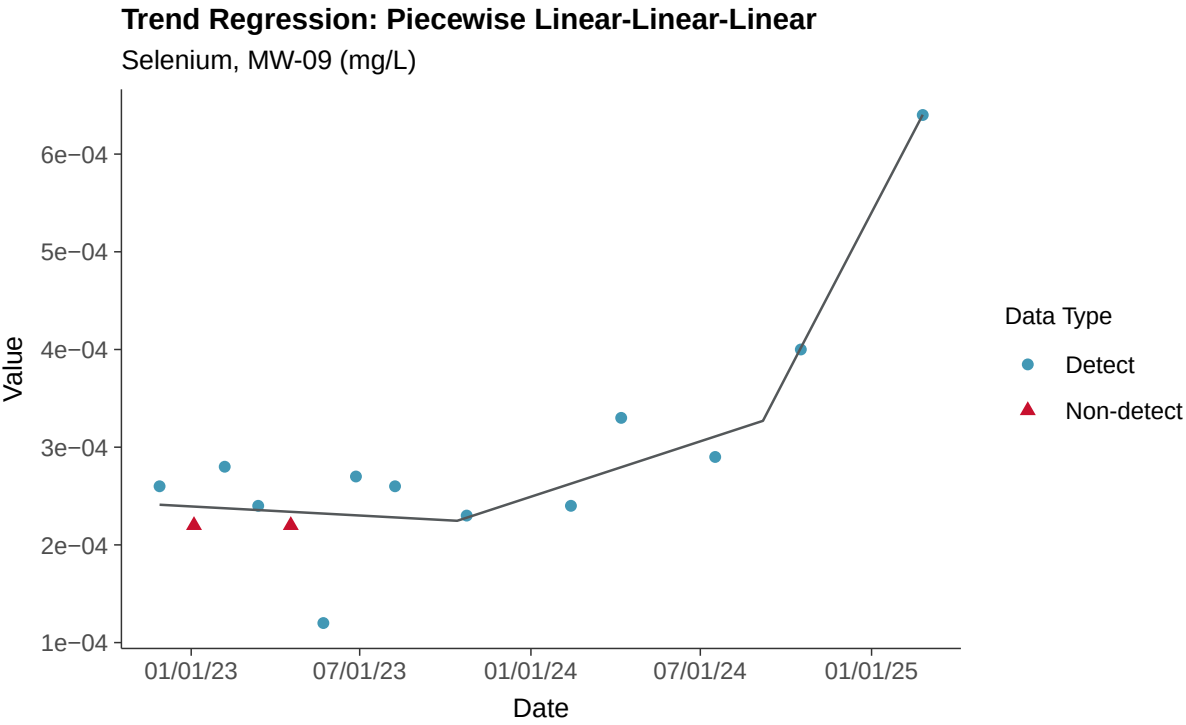


Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-09 (mg/L)



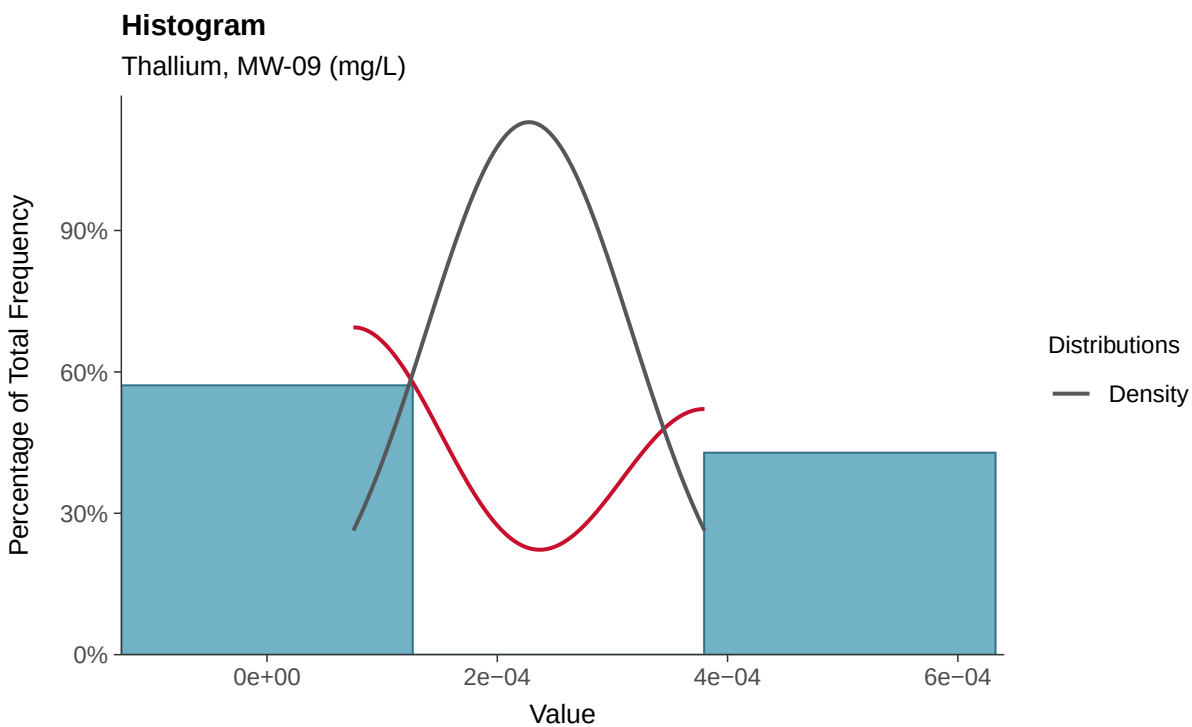
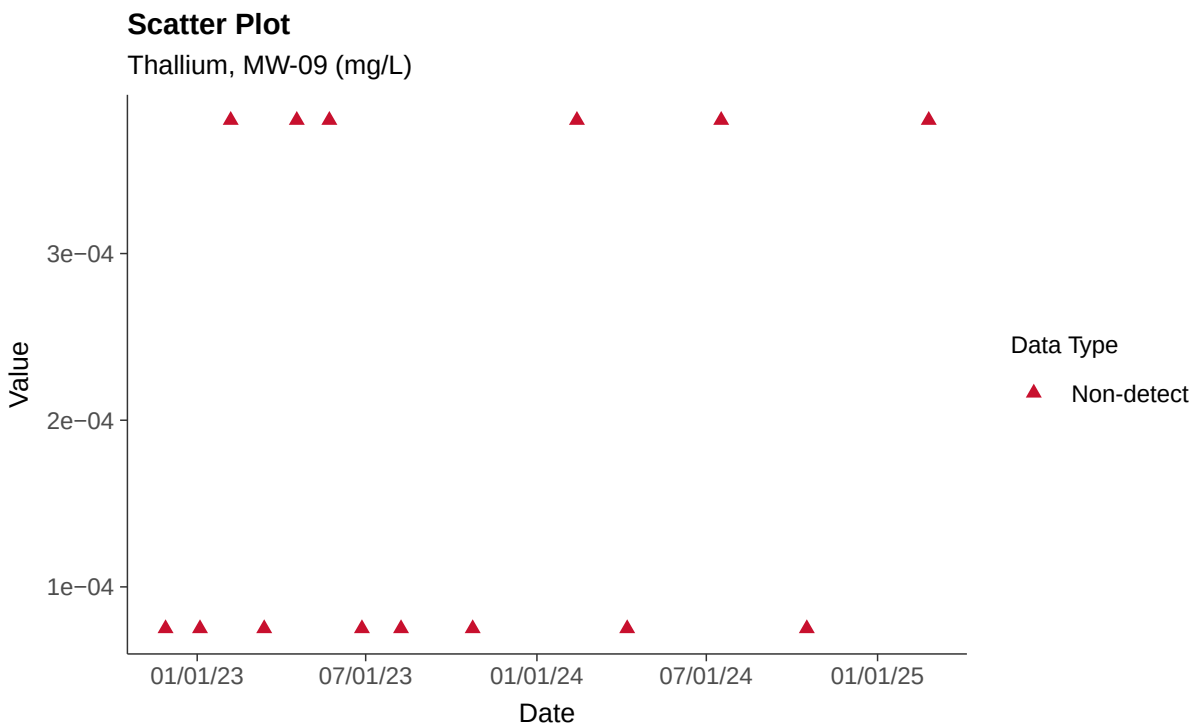


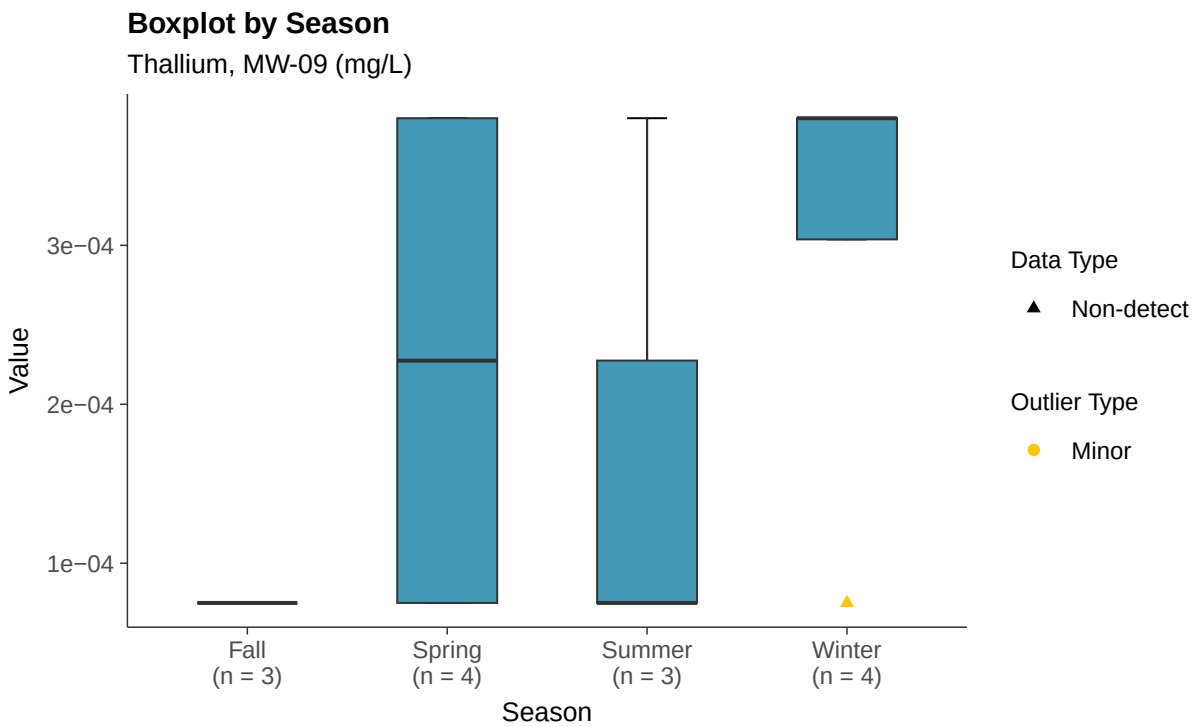
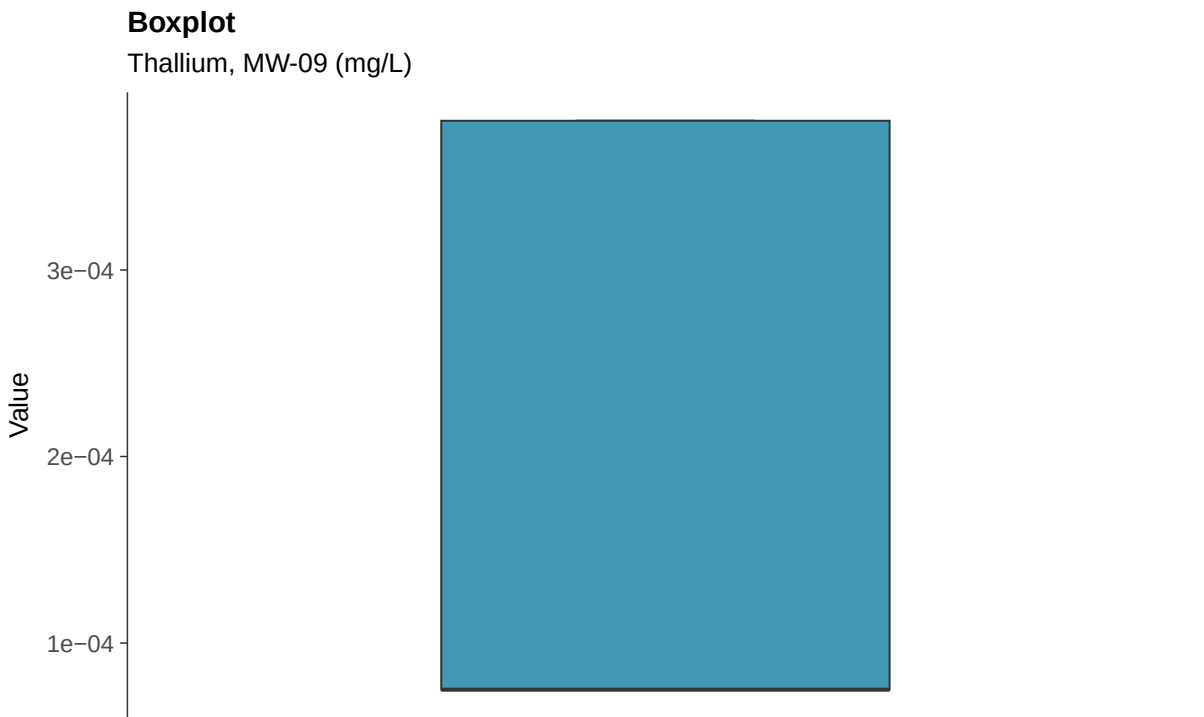


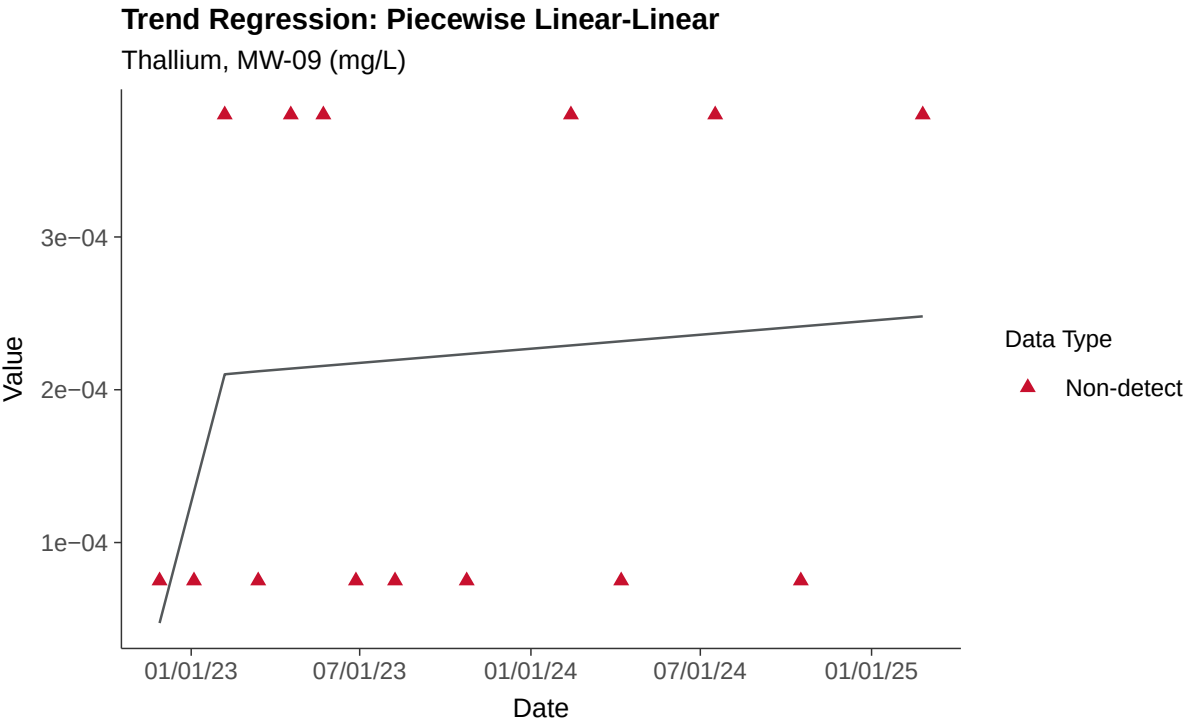


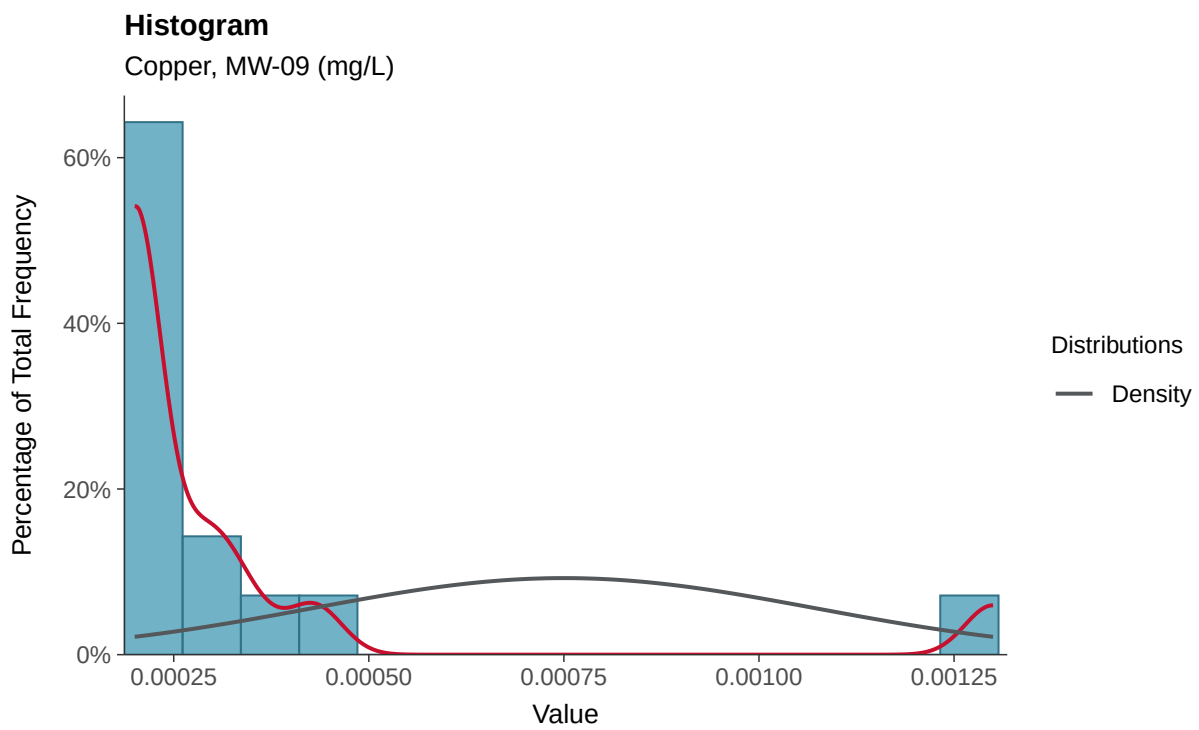
Appendix IV: Thallium, MW-09

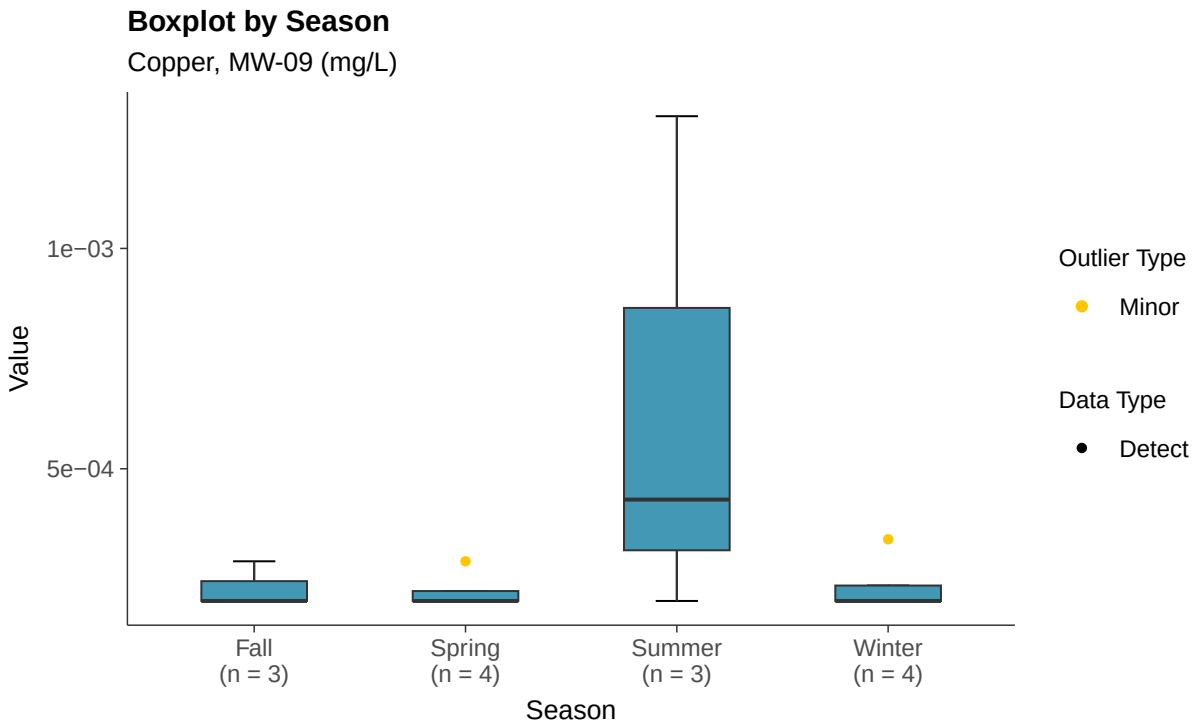
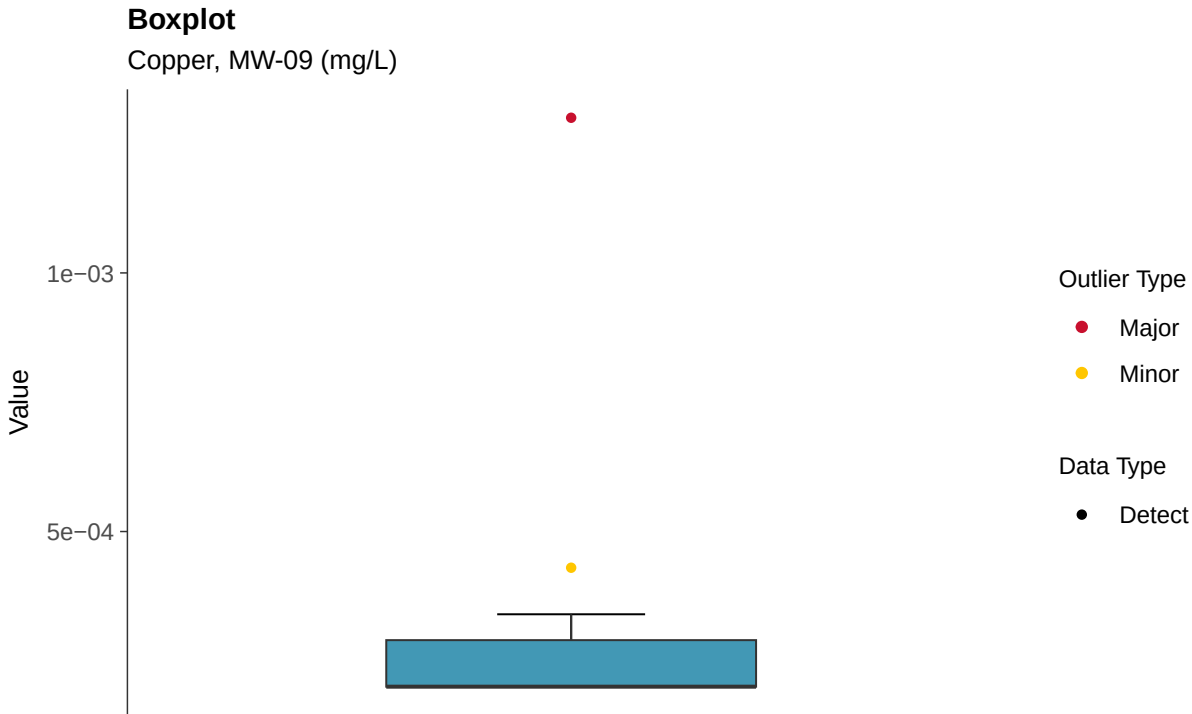
ID: 19_2_4_125

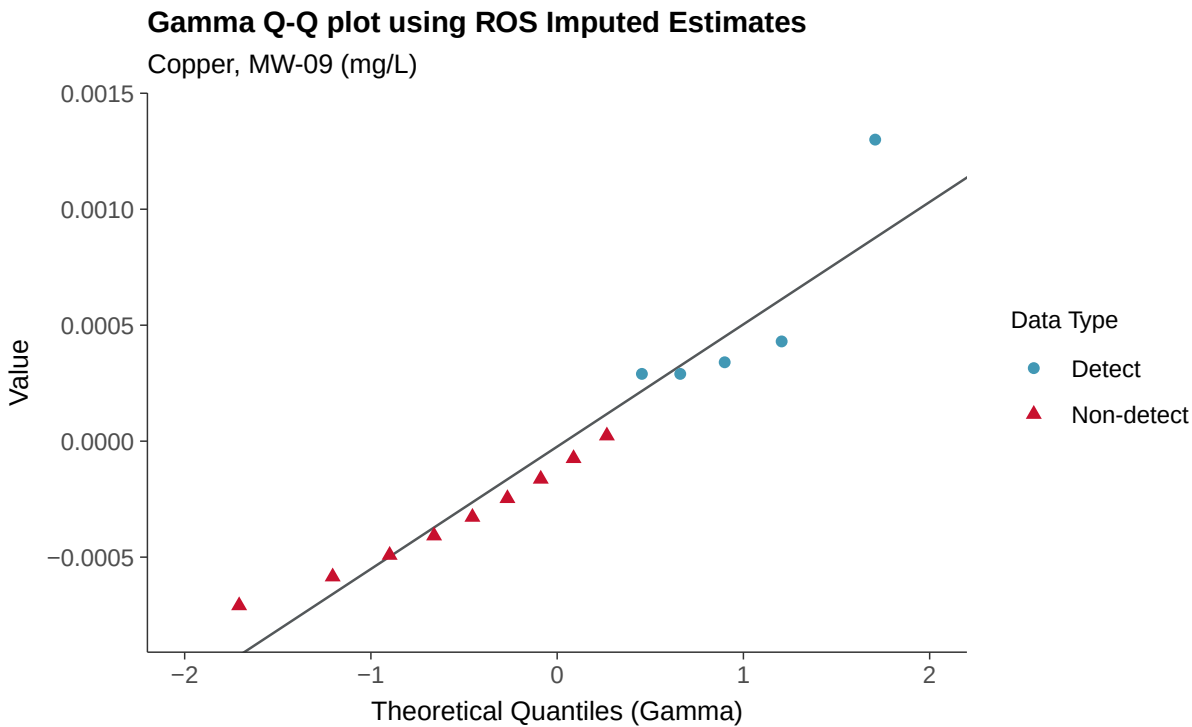
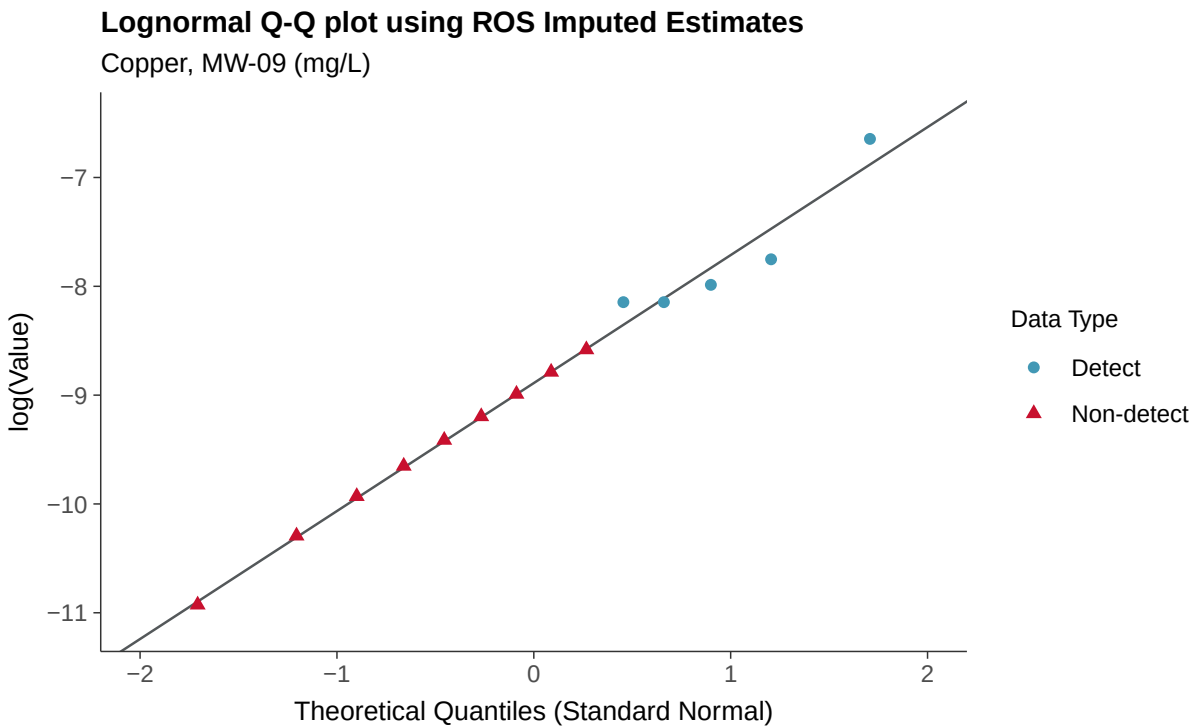


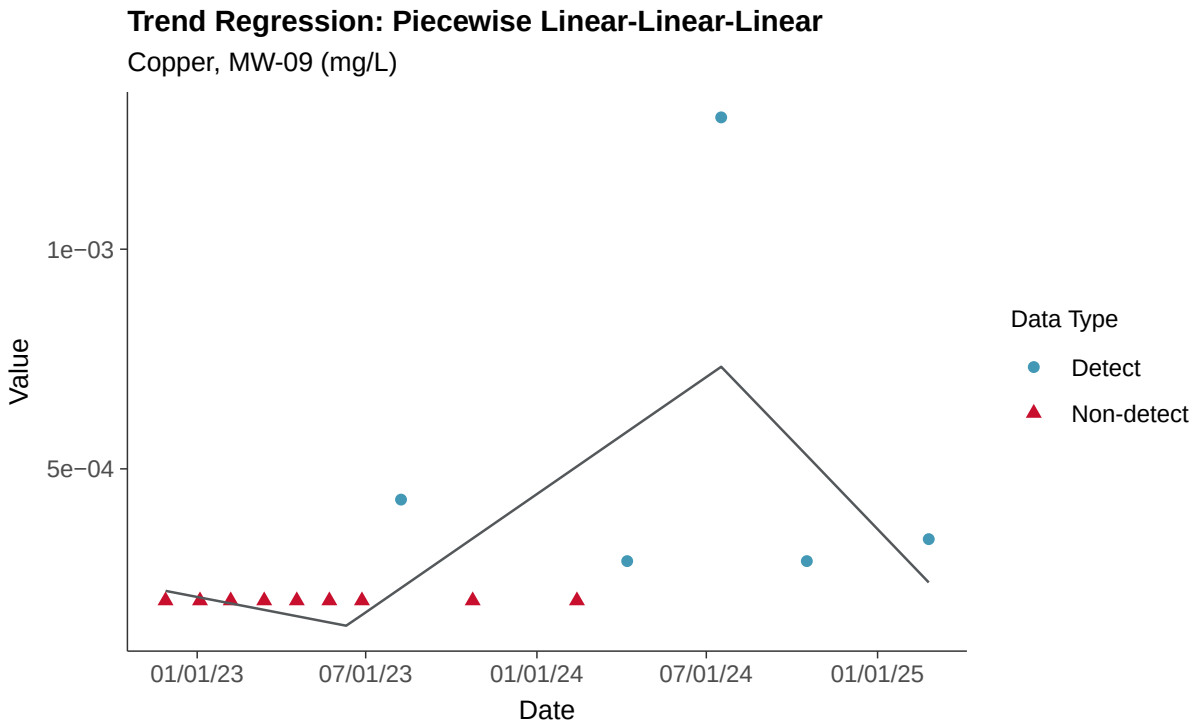
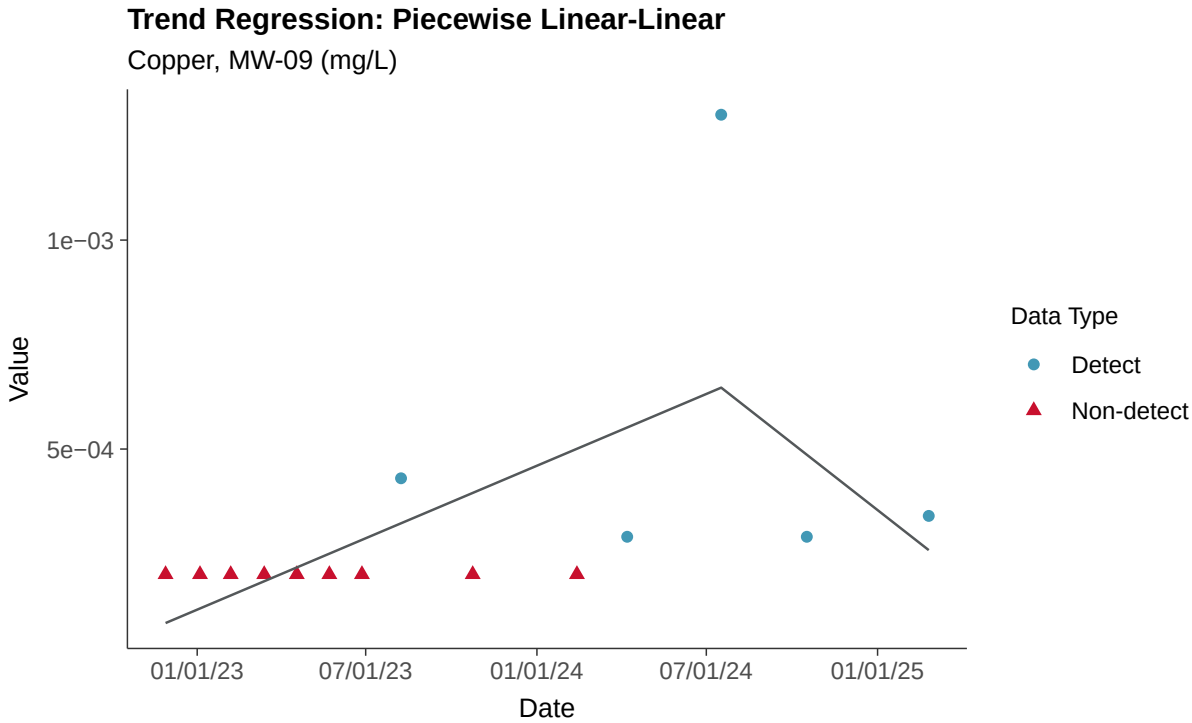








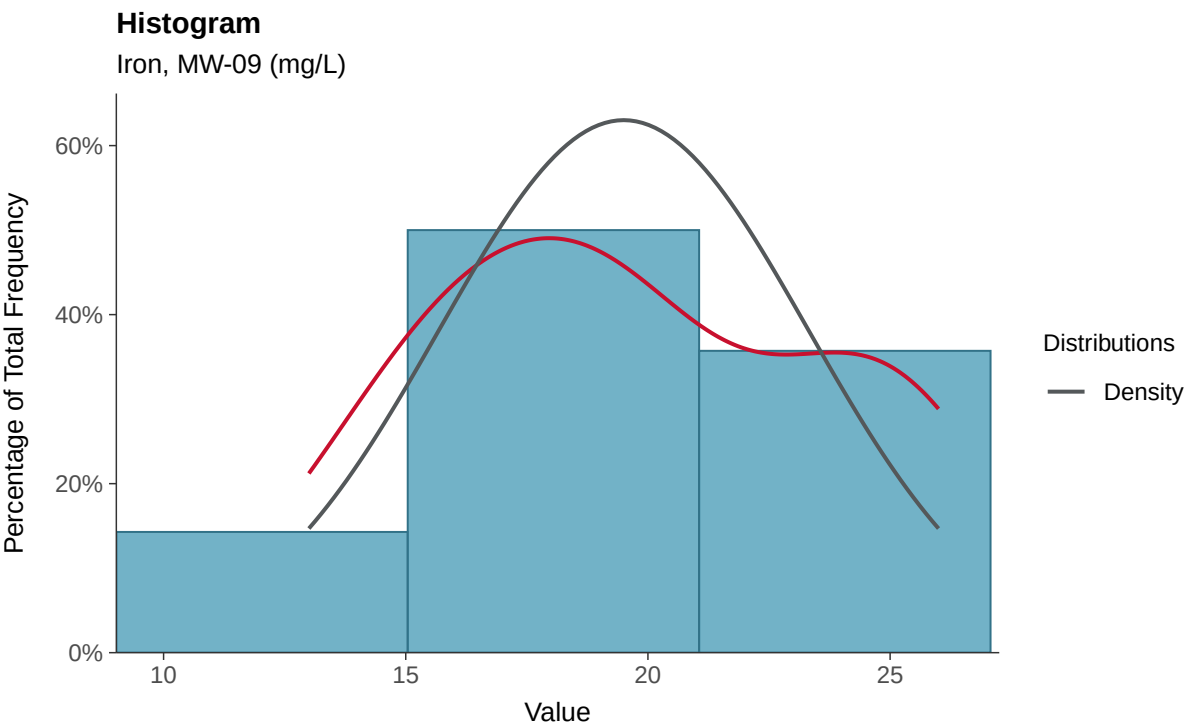
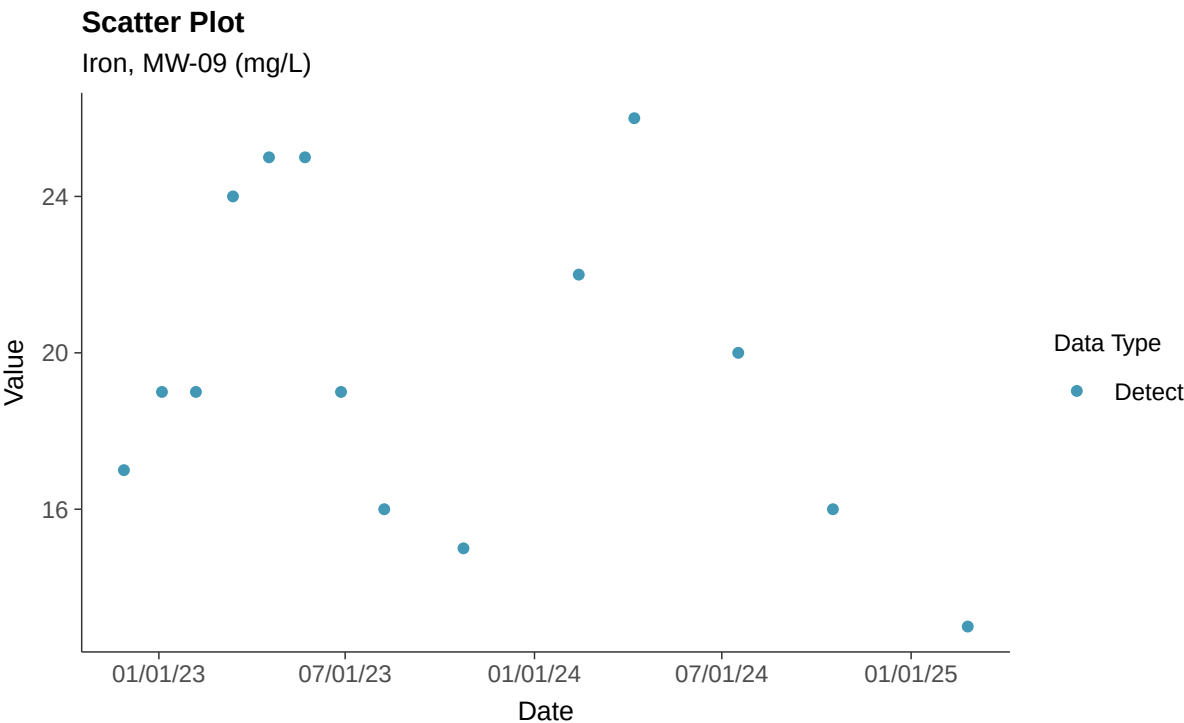


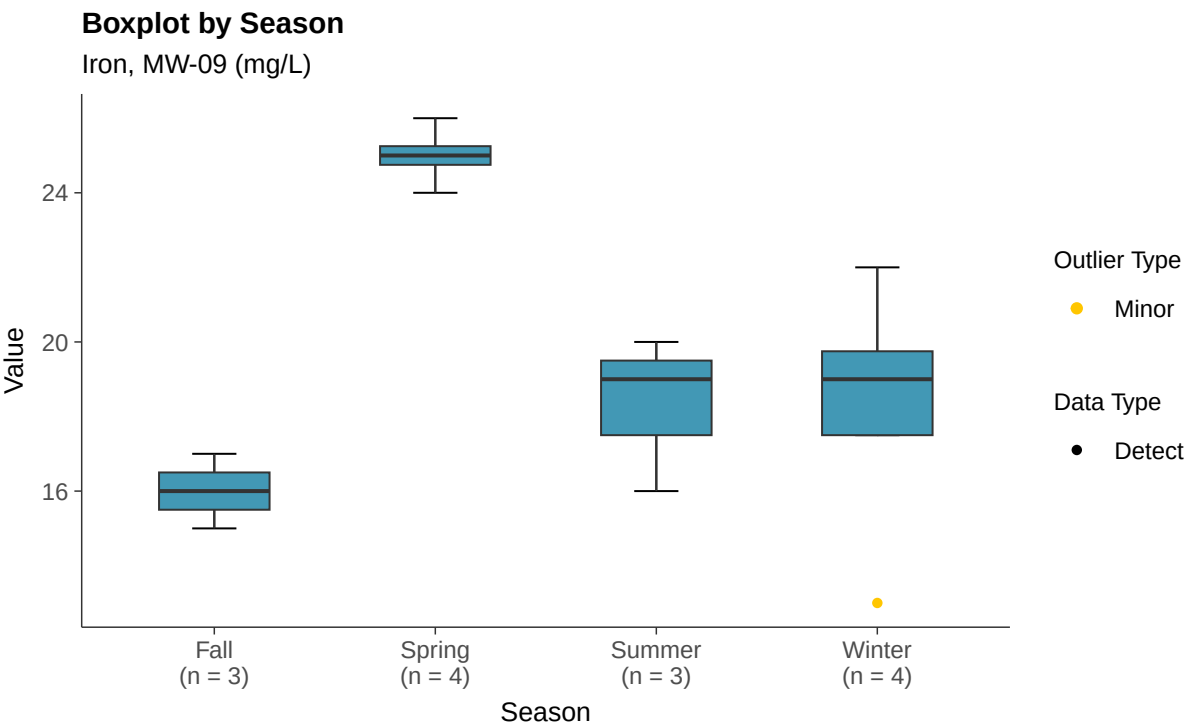
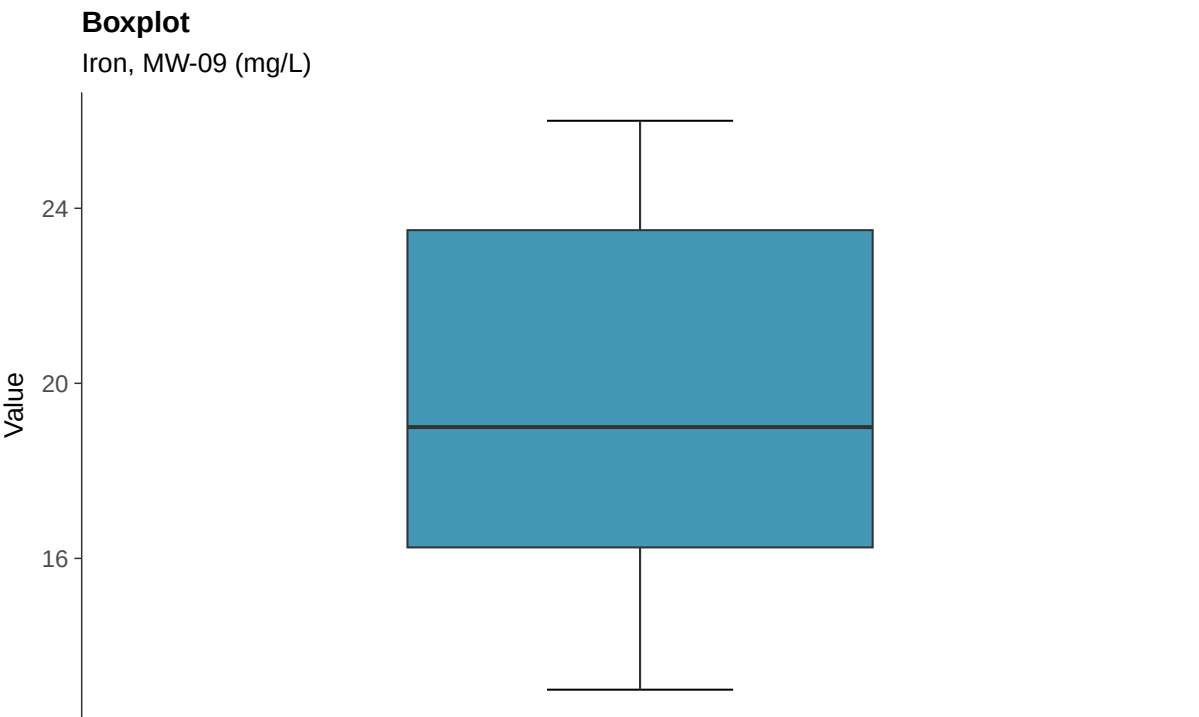


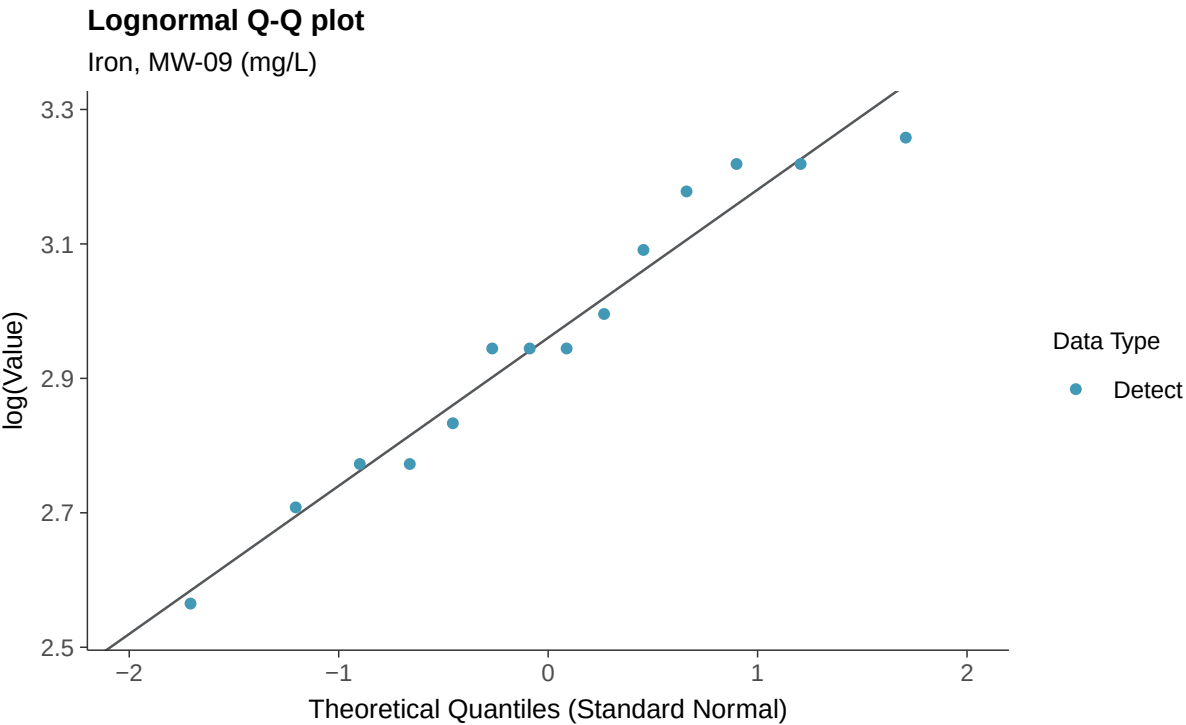
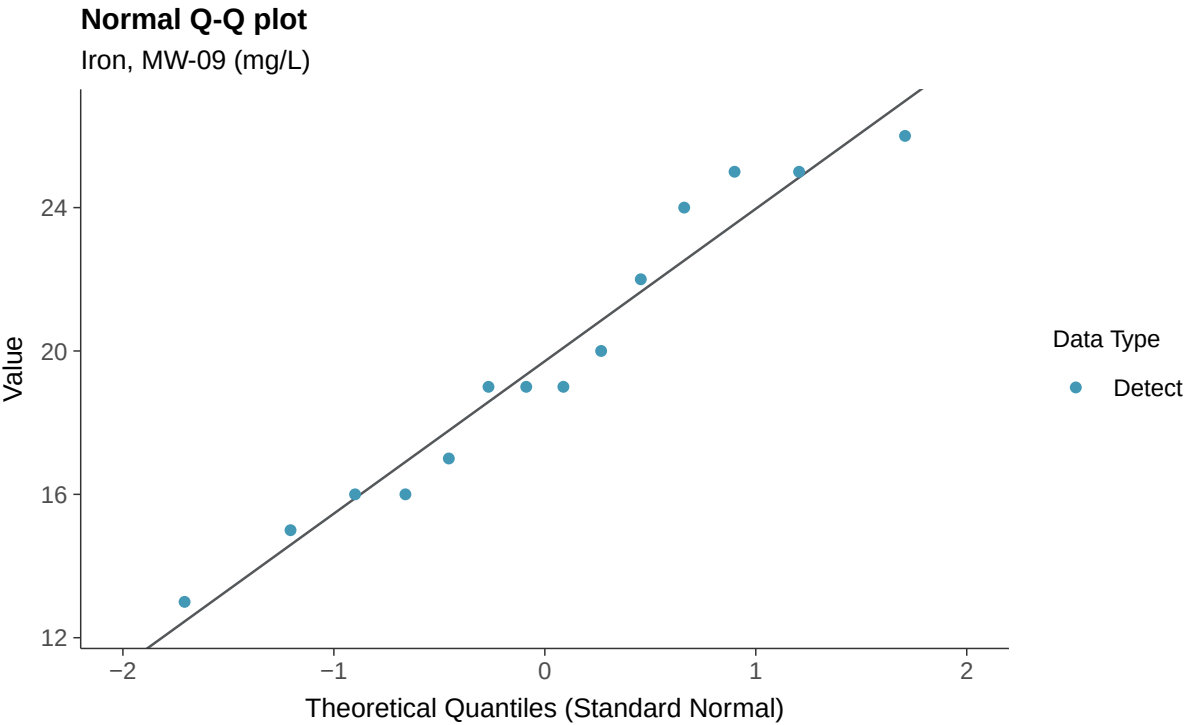


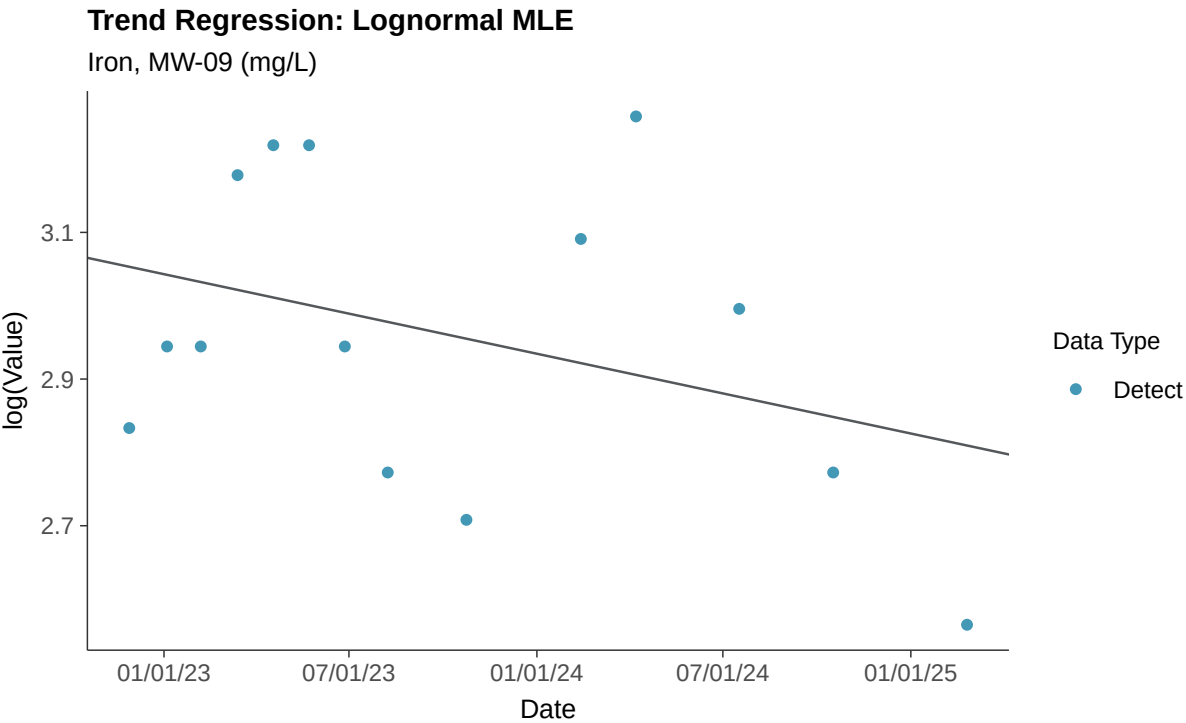
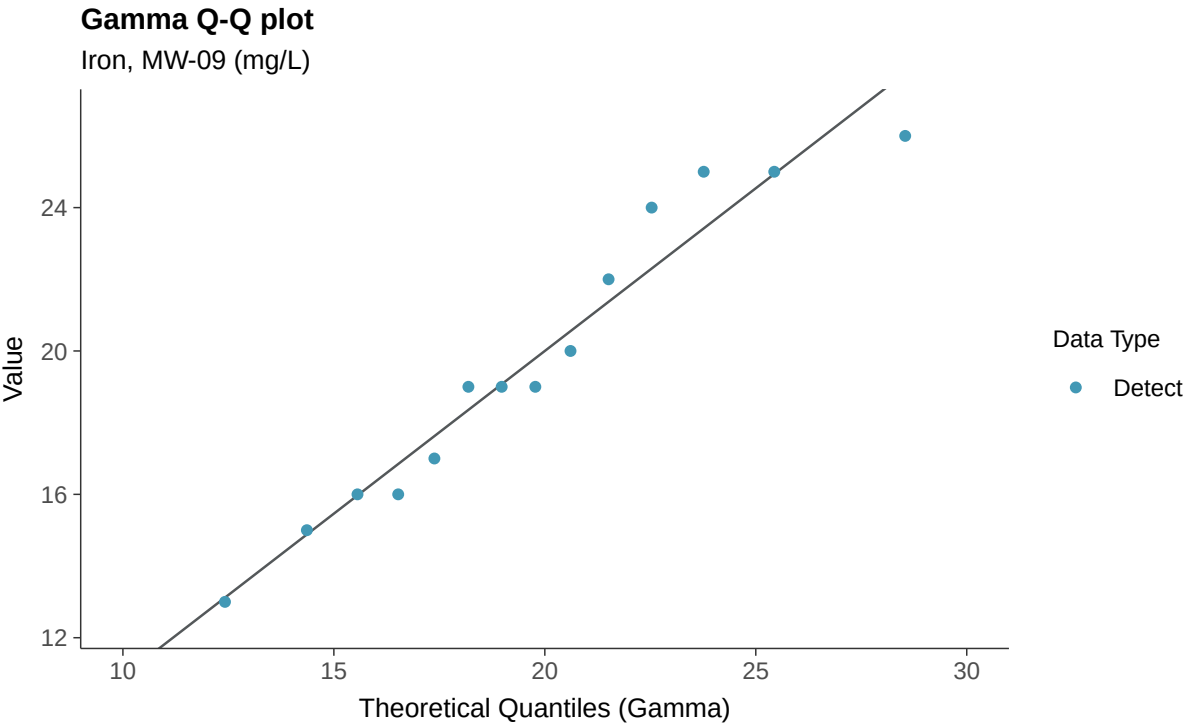
Part 115: Iron, MW-09

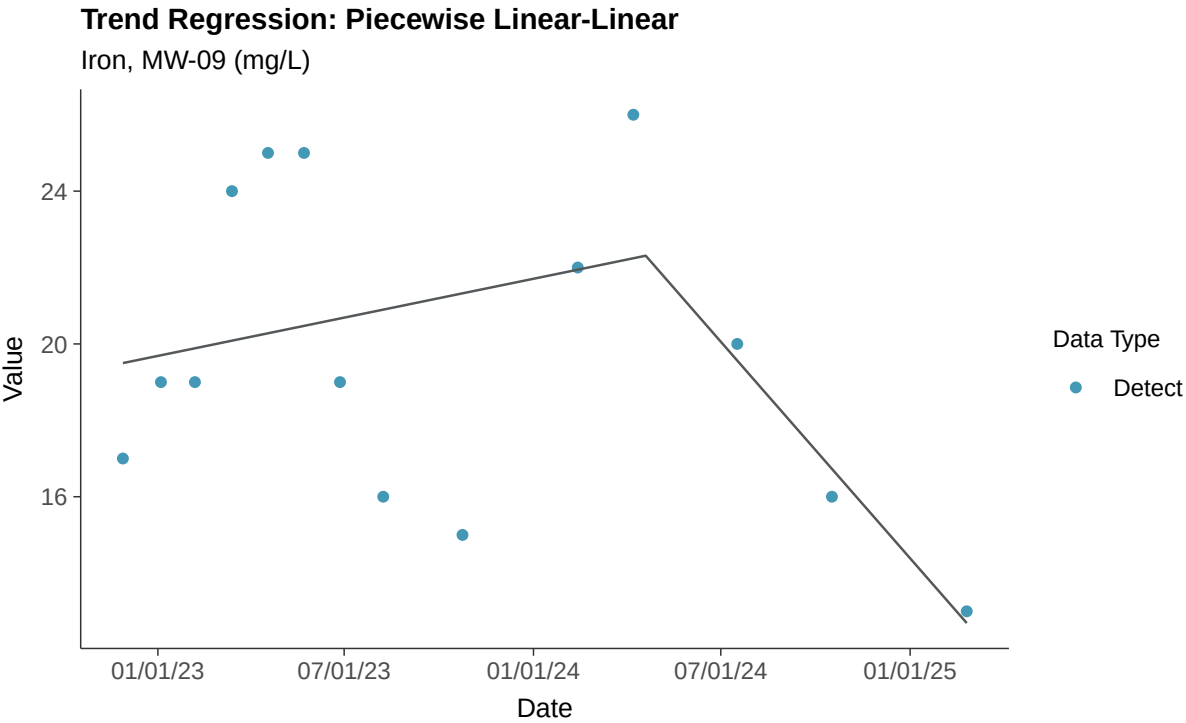
ID: 19_2_5_114







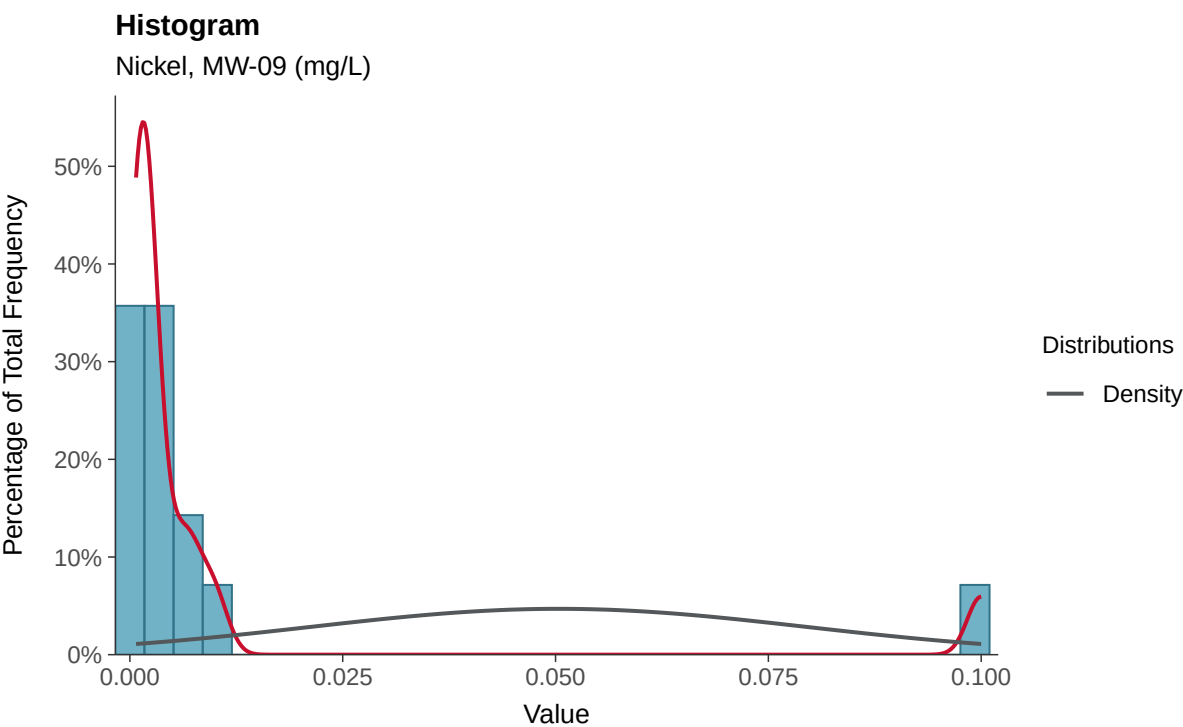
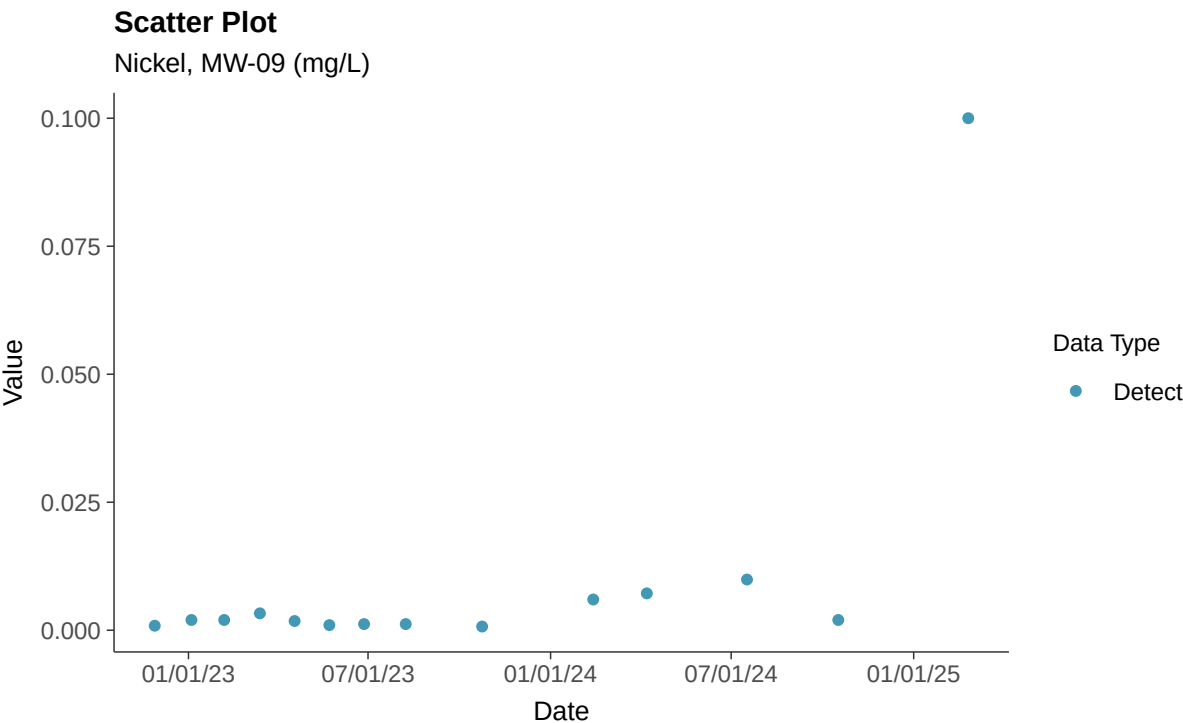


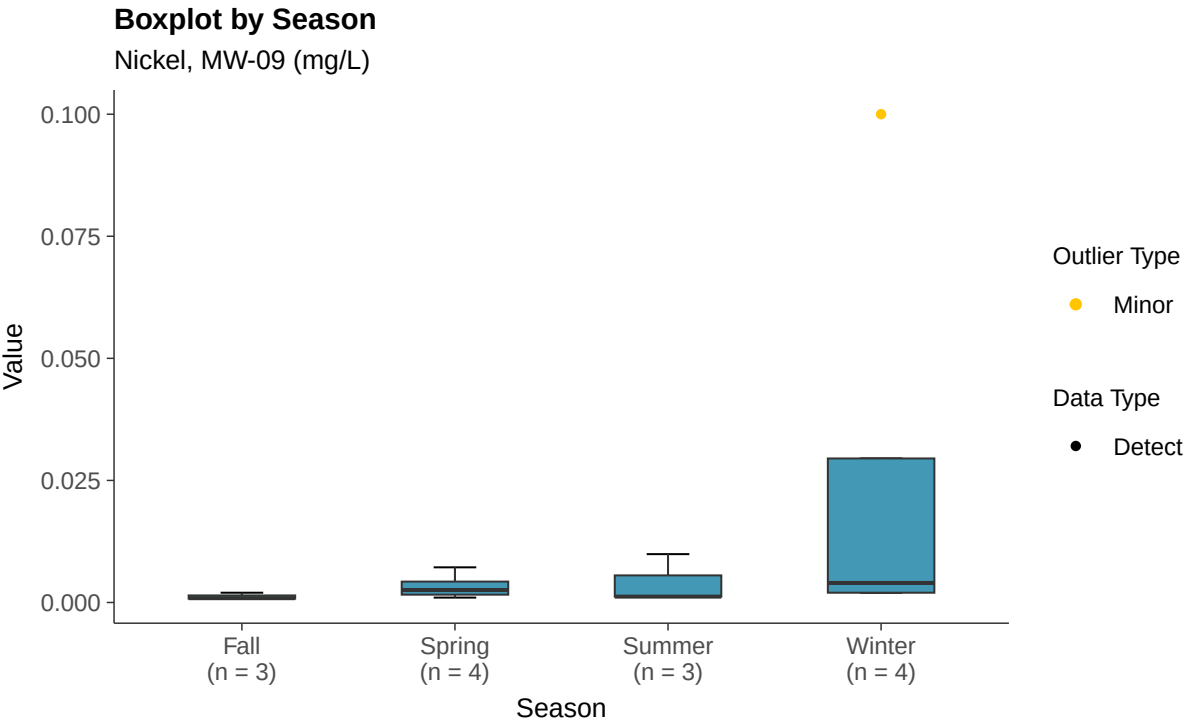
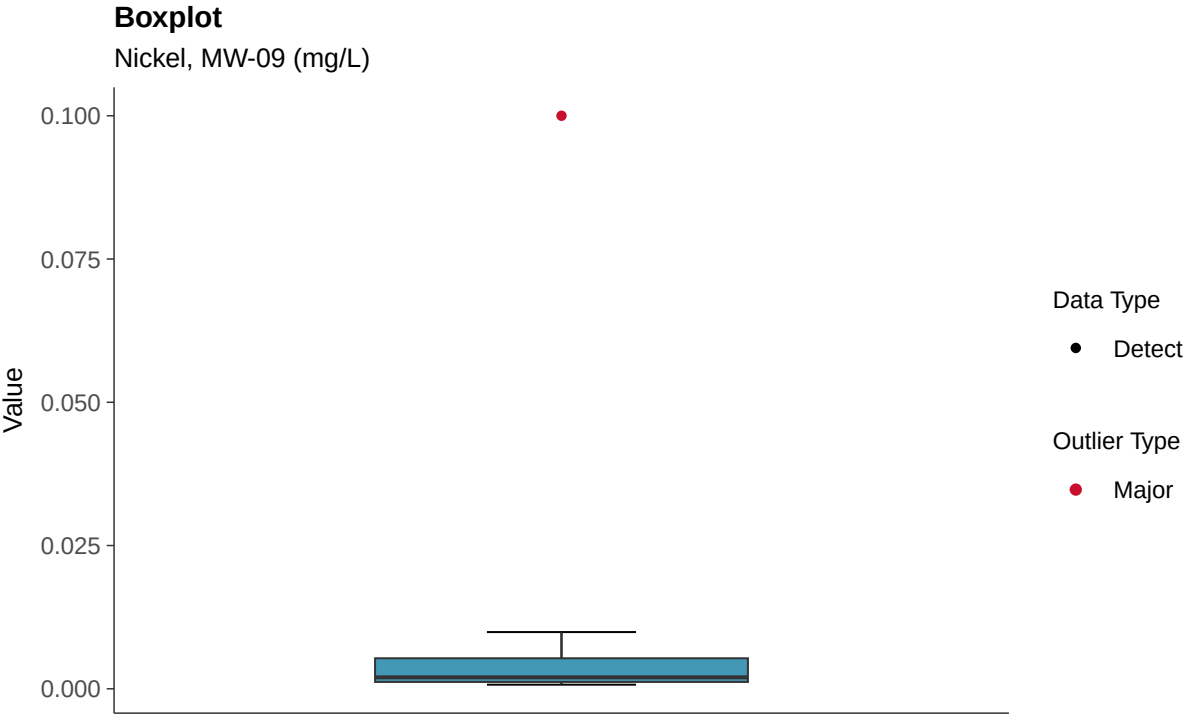


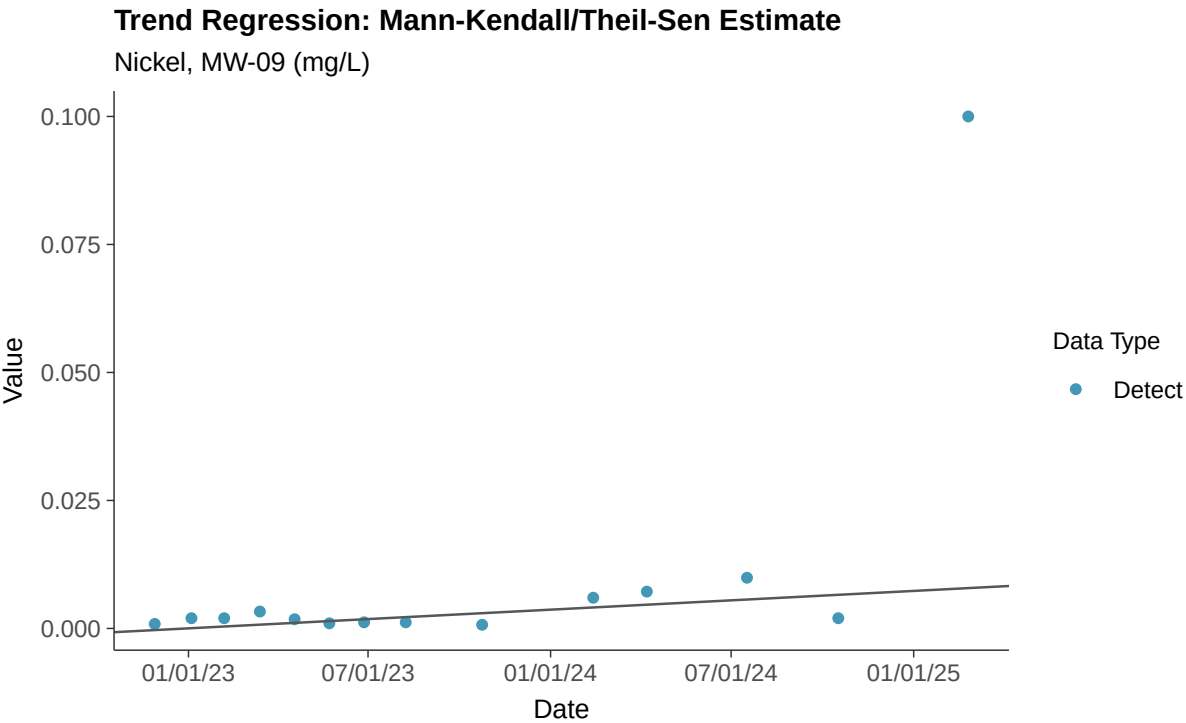
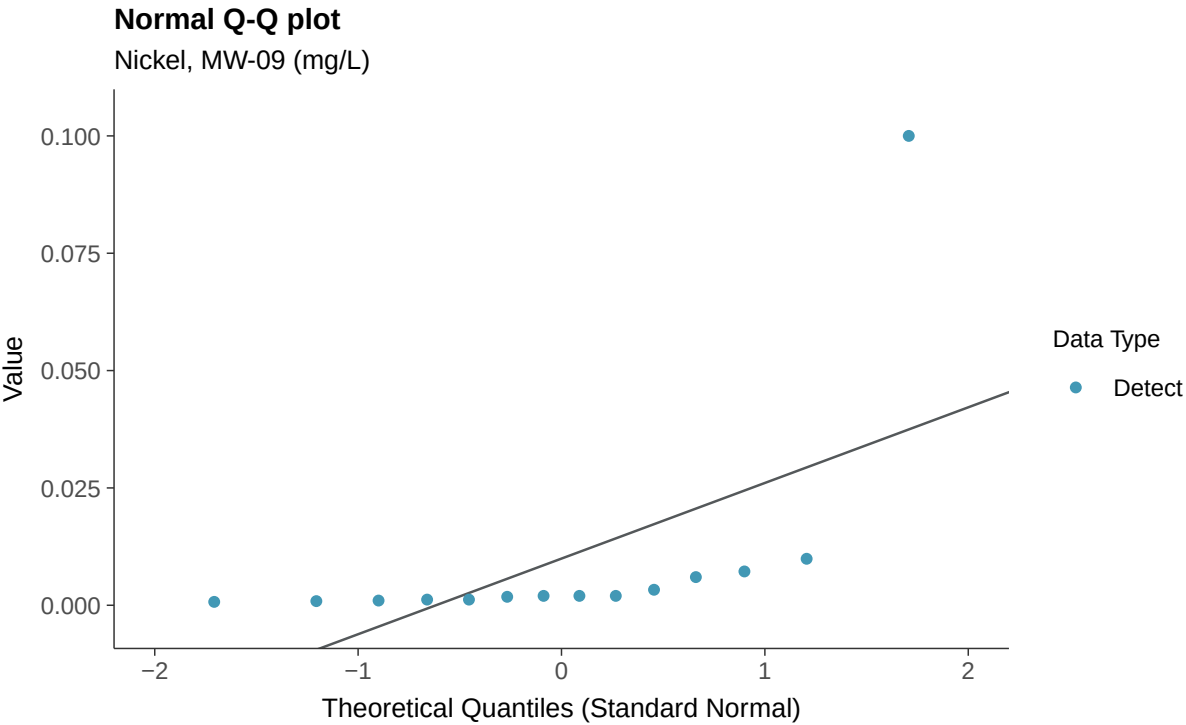


Part 115: Nickel, MW-09

ID: 19_2_5_119



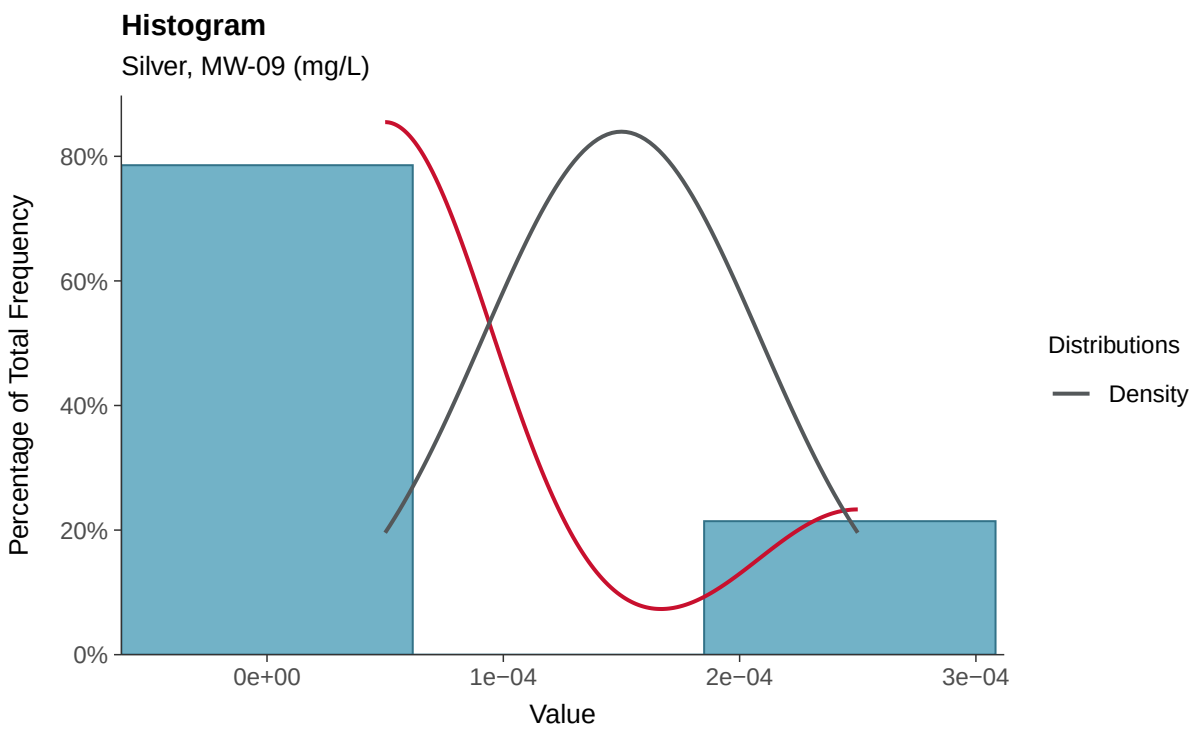
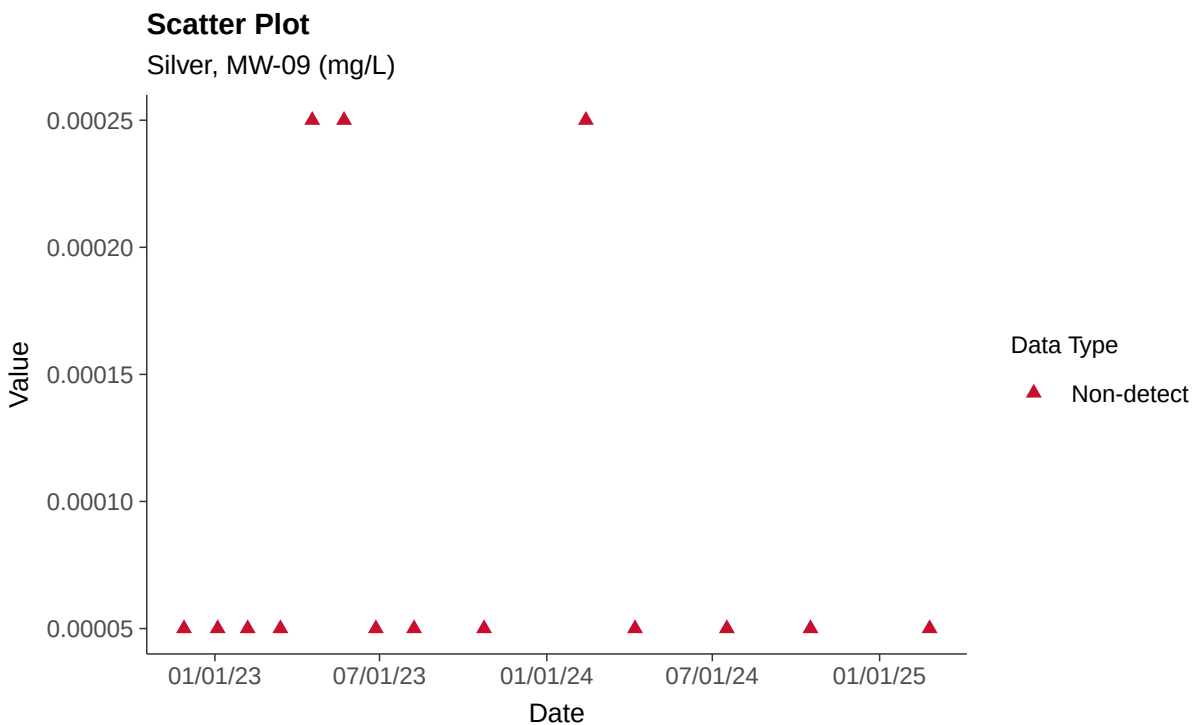


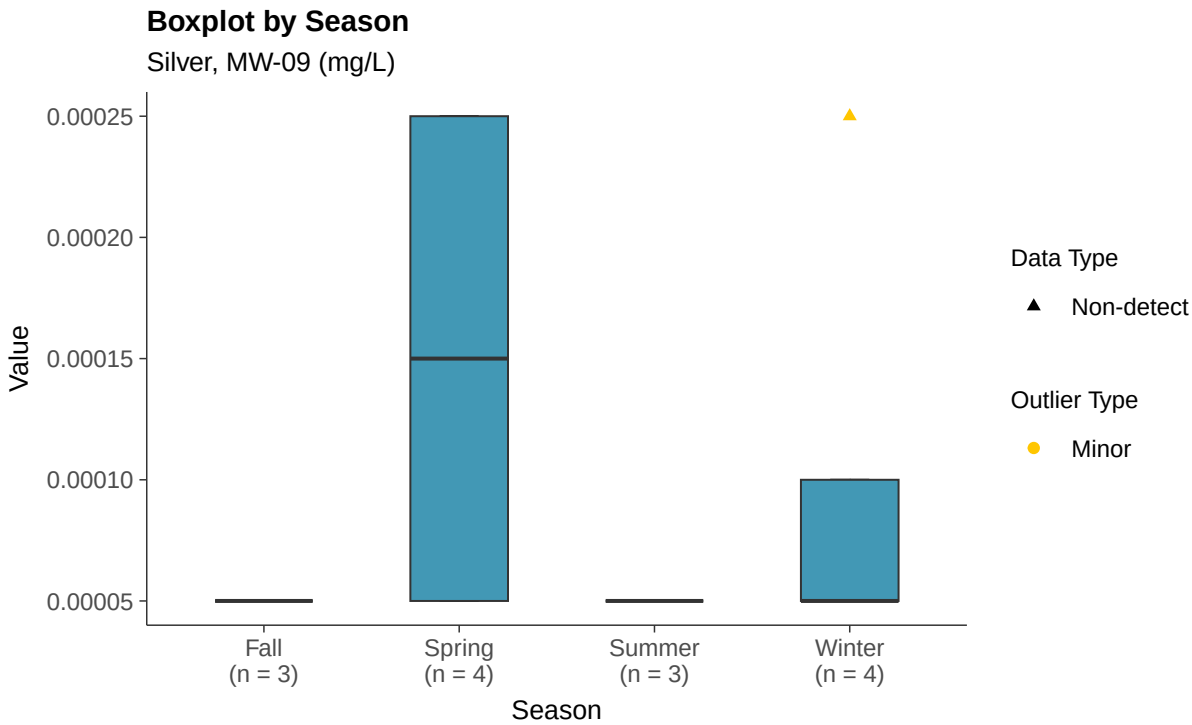
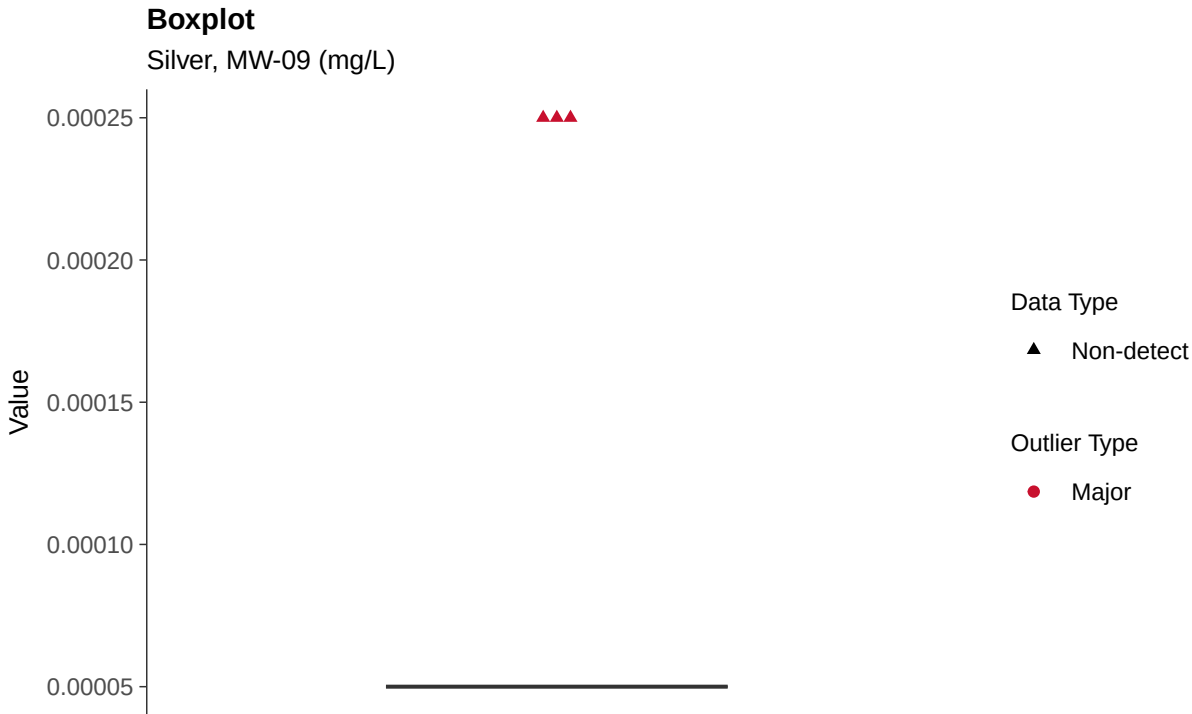




Part 115: Silver, MW-09

ID: 19_2_5_123

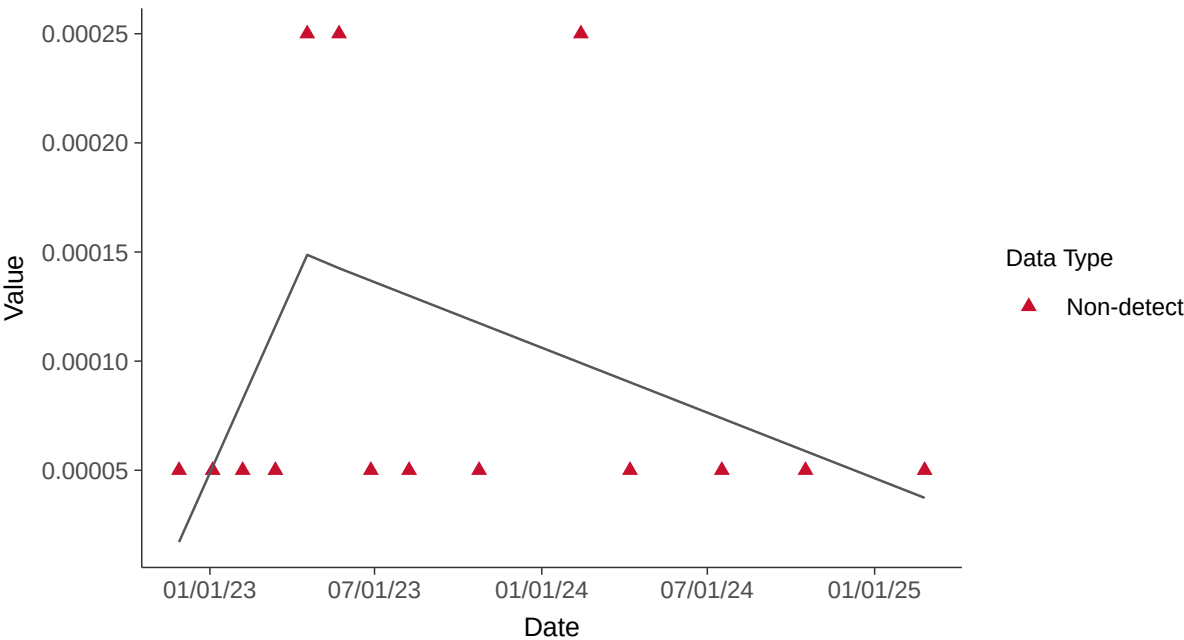






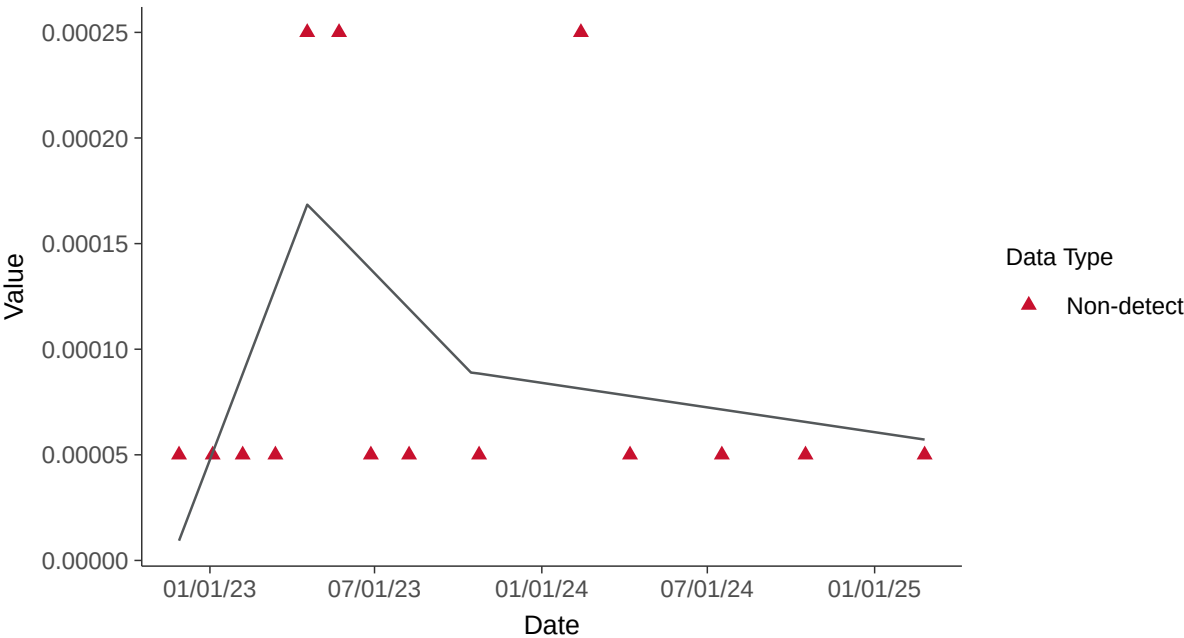
Trend Regression: Piecewise Linear-Linear

Silver, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

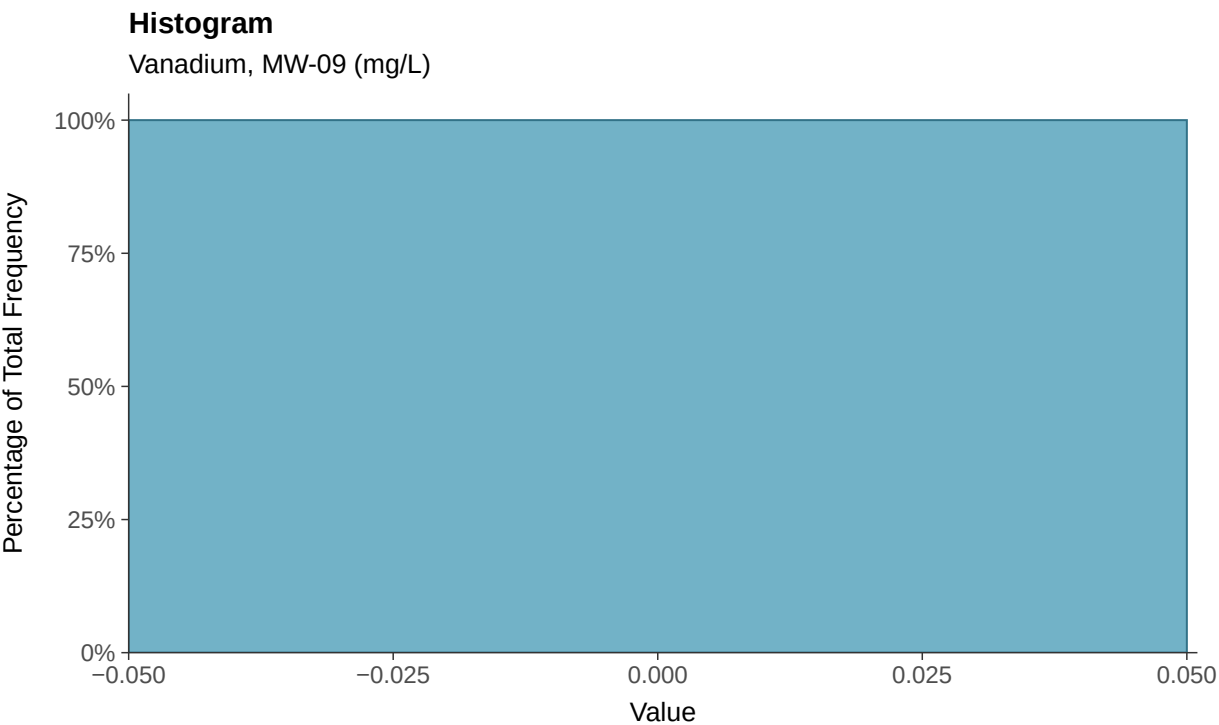
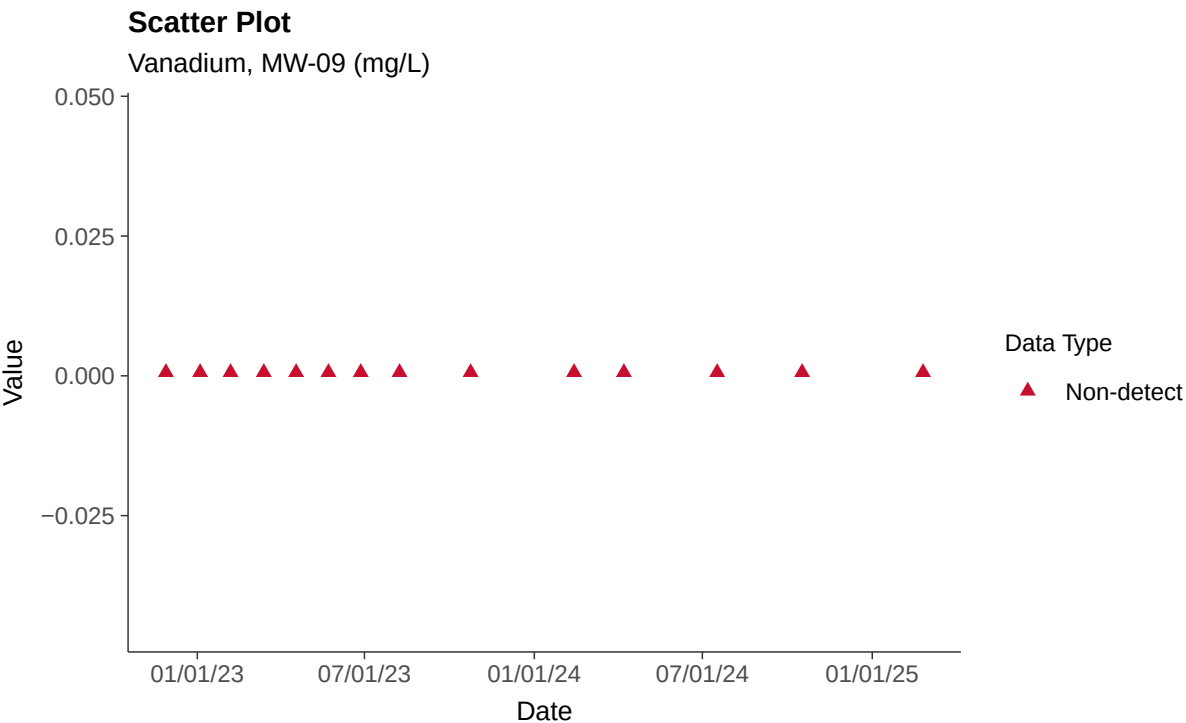
Silver, MW-09 (mg/L)

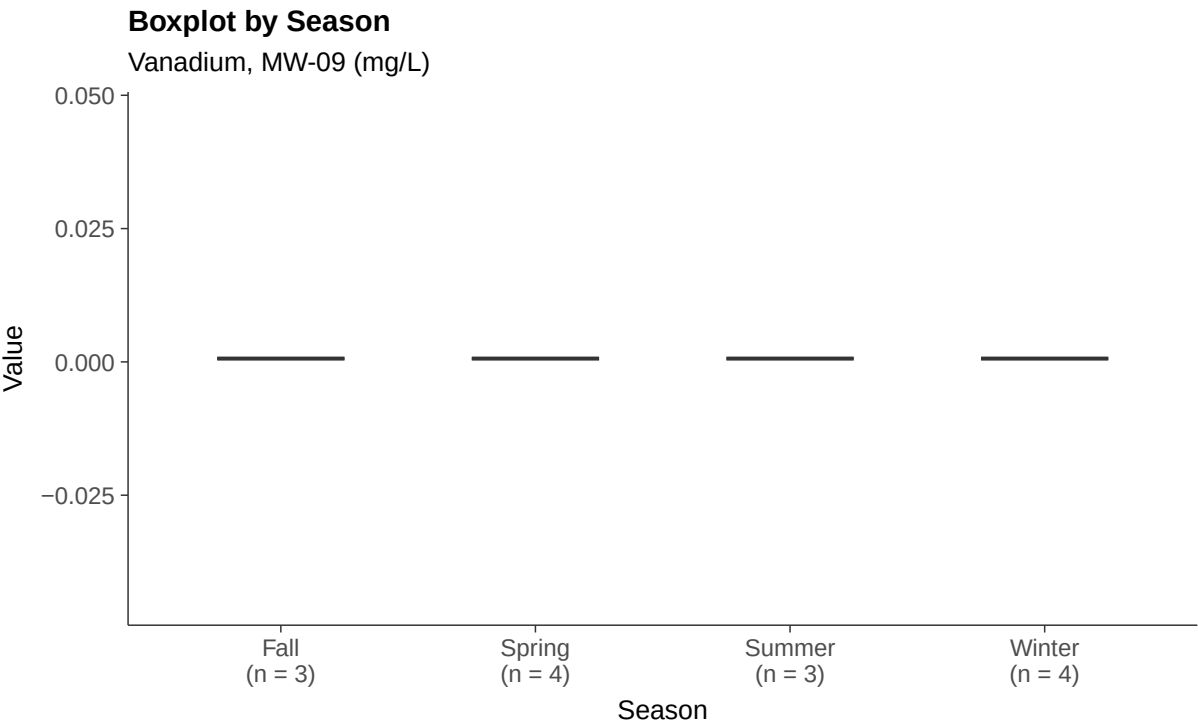
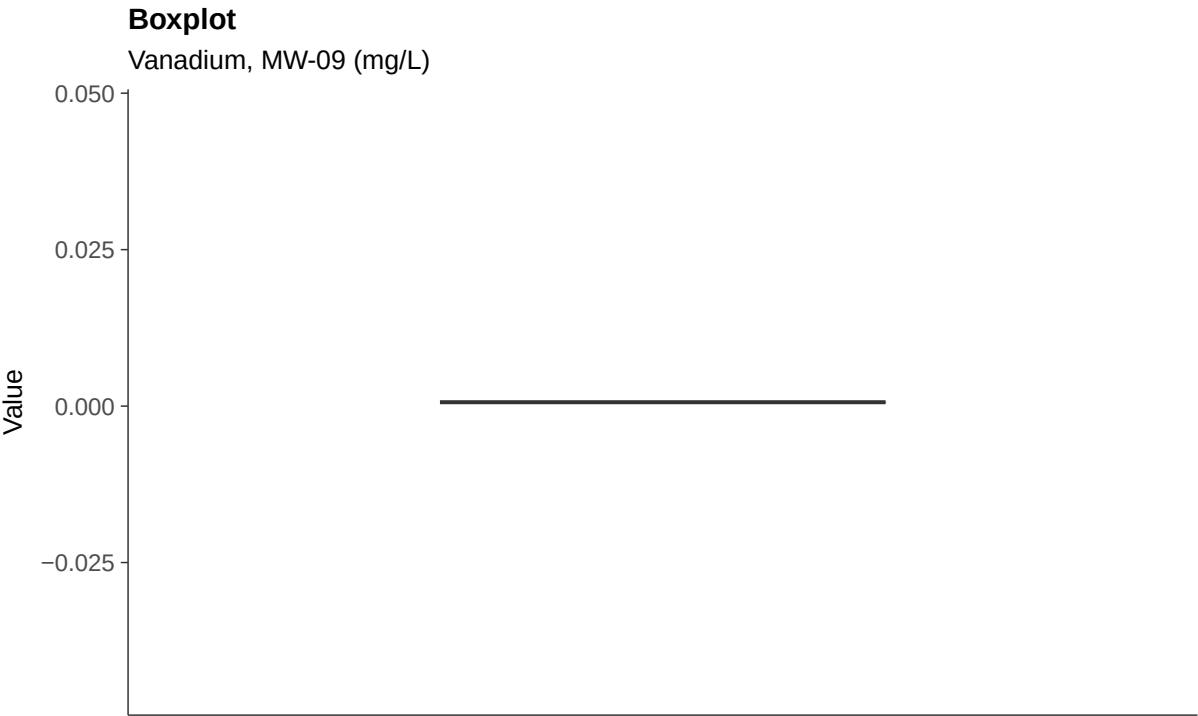




Part 115: Vanadium, MW-09

ID: 19_2_5_128

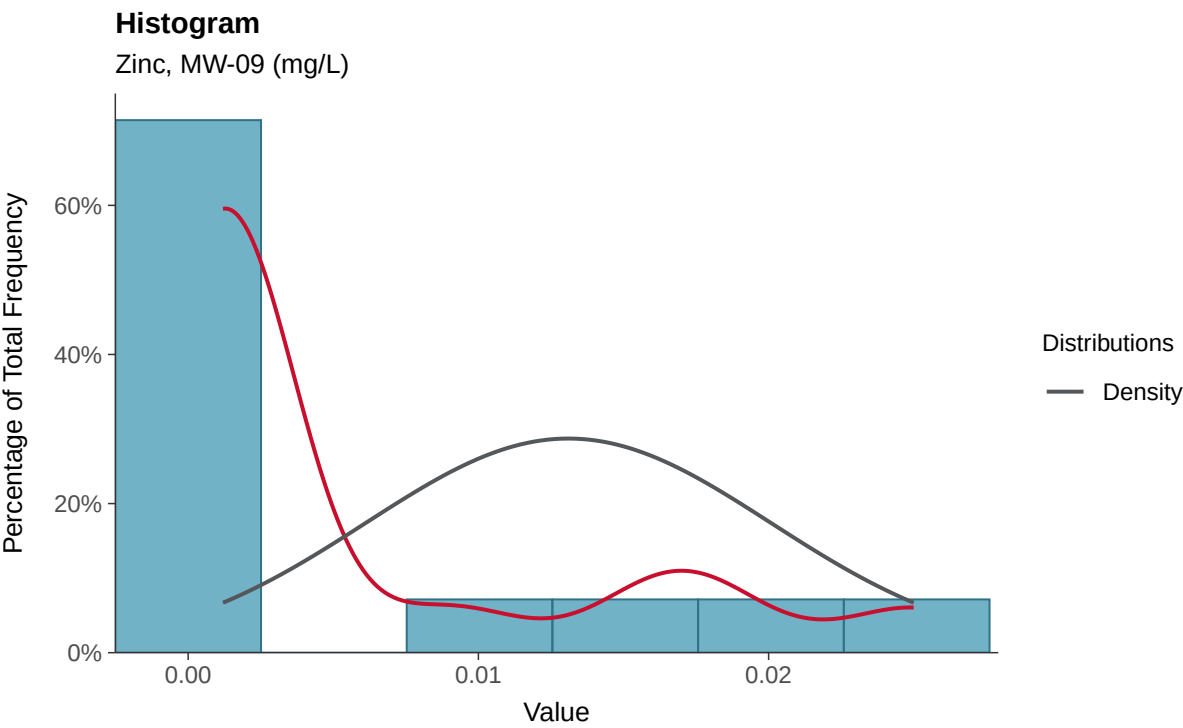
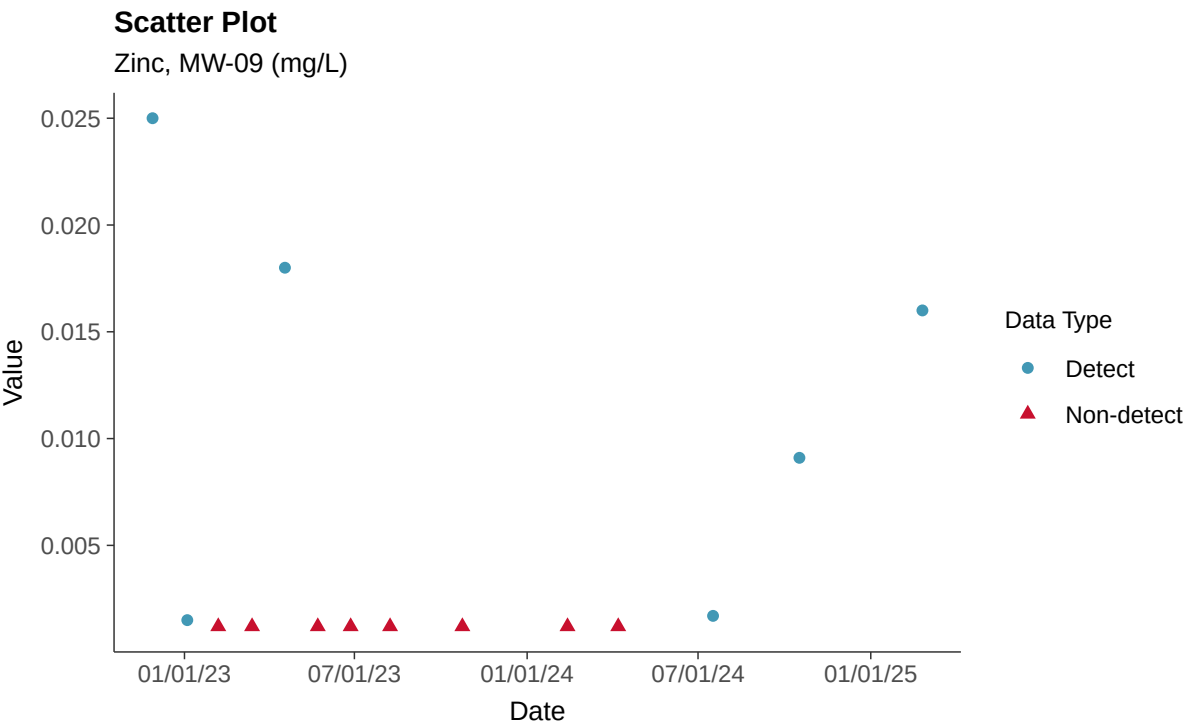


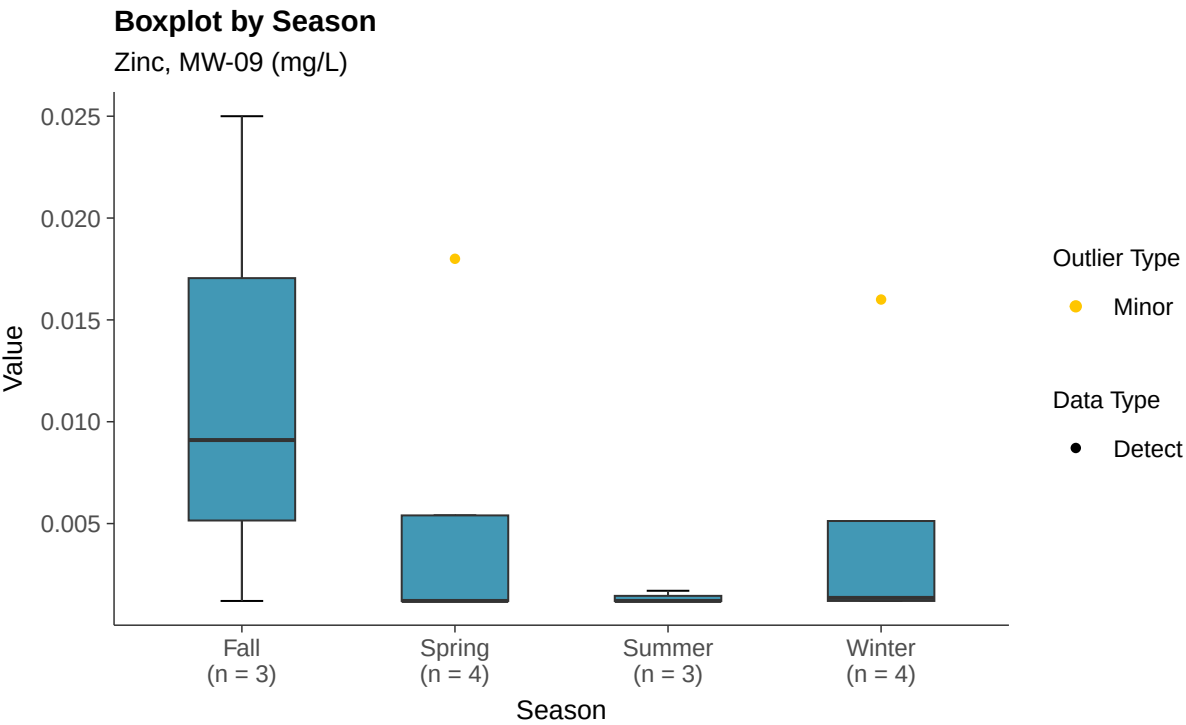
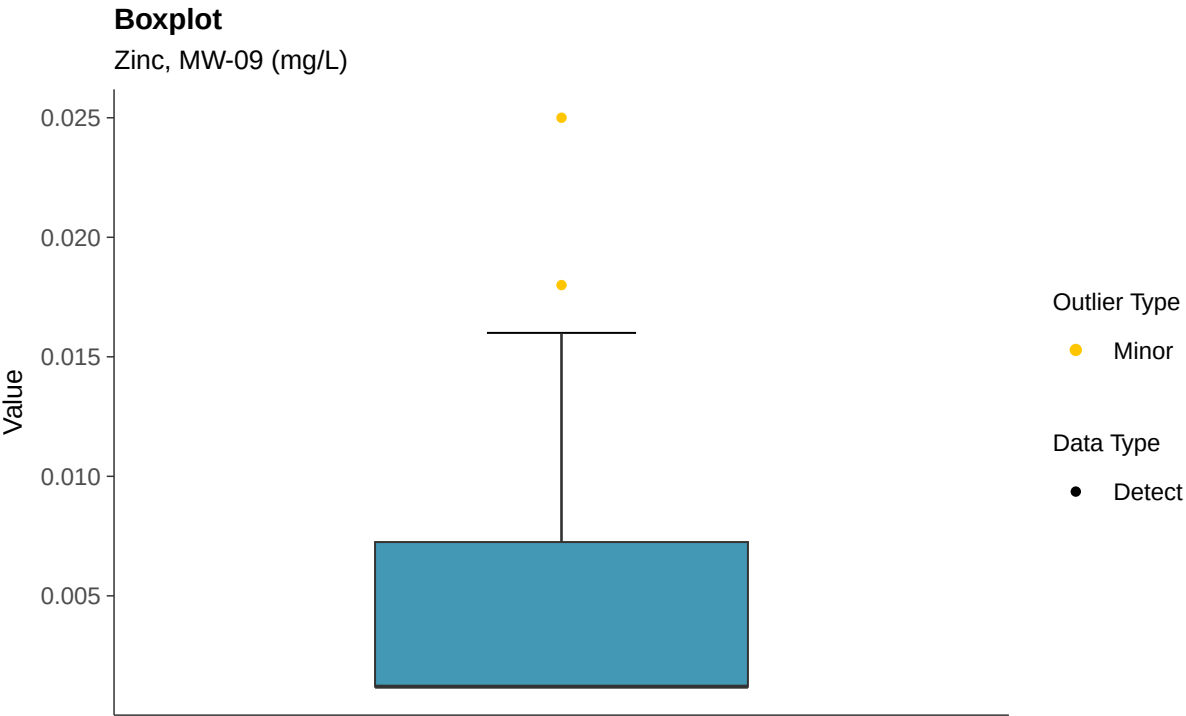


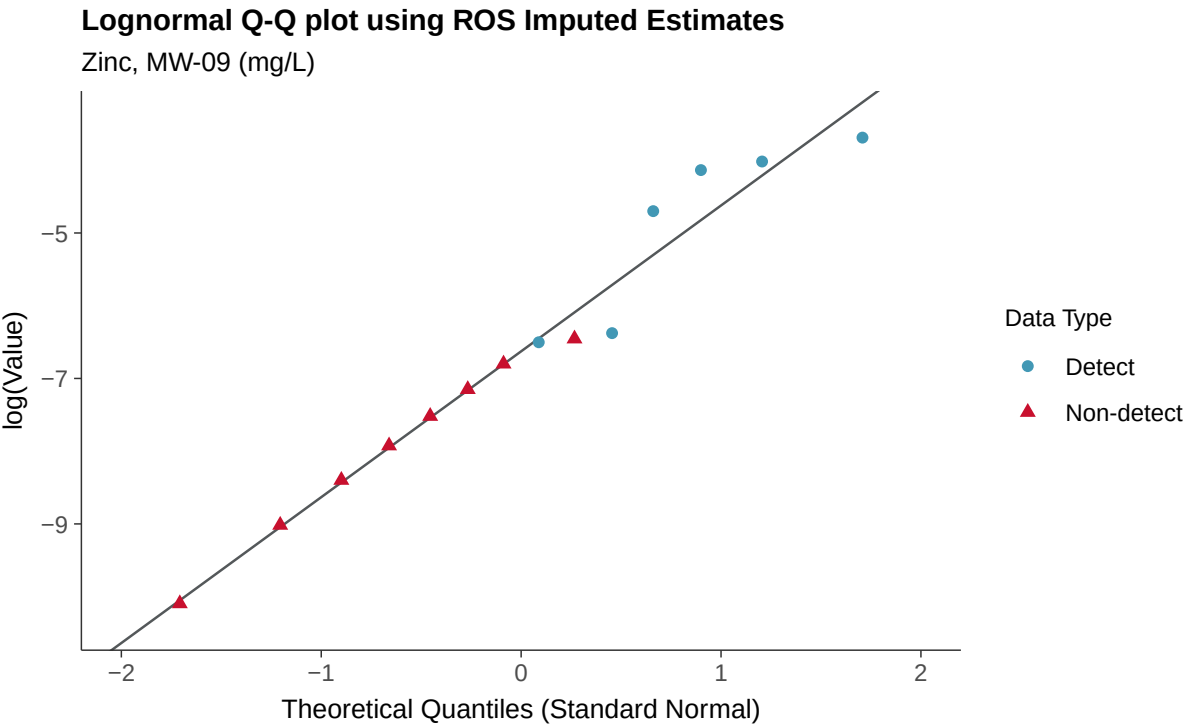
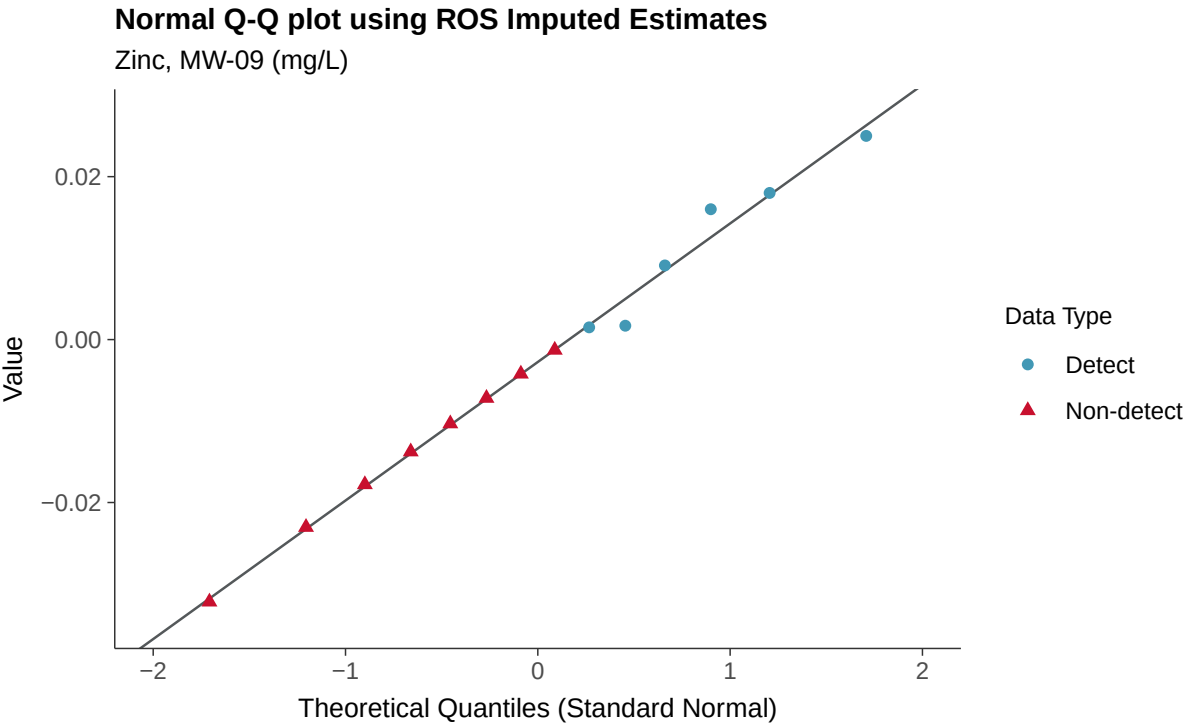


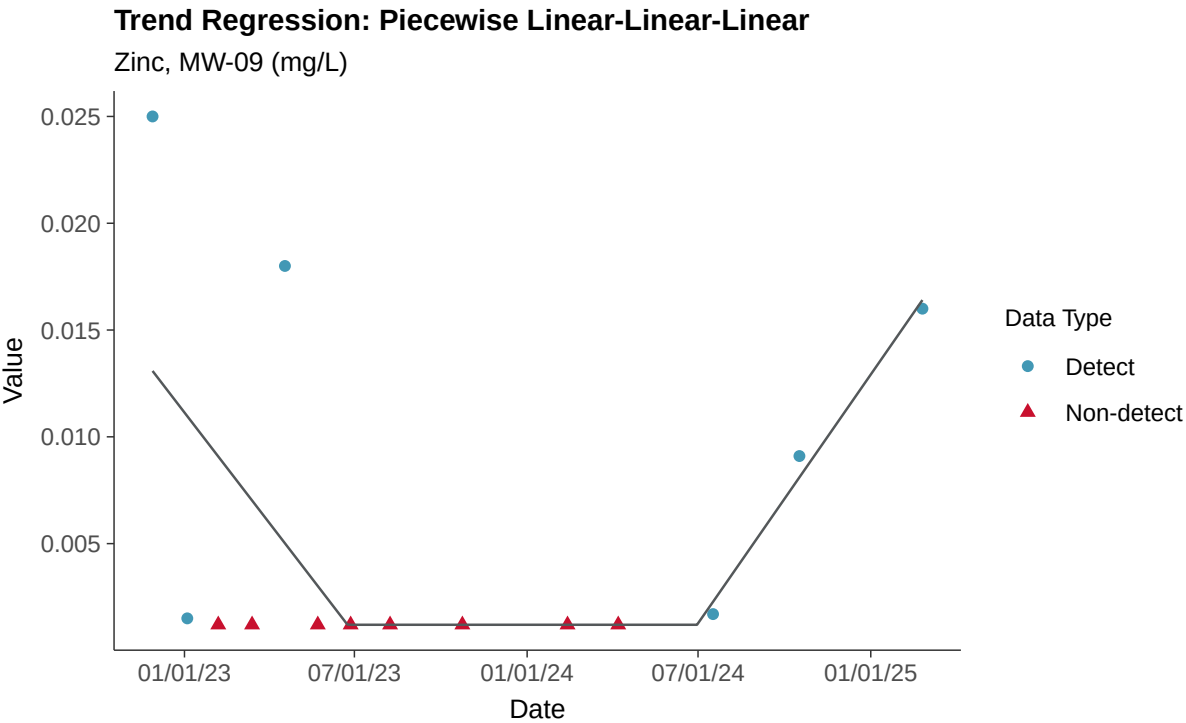
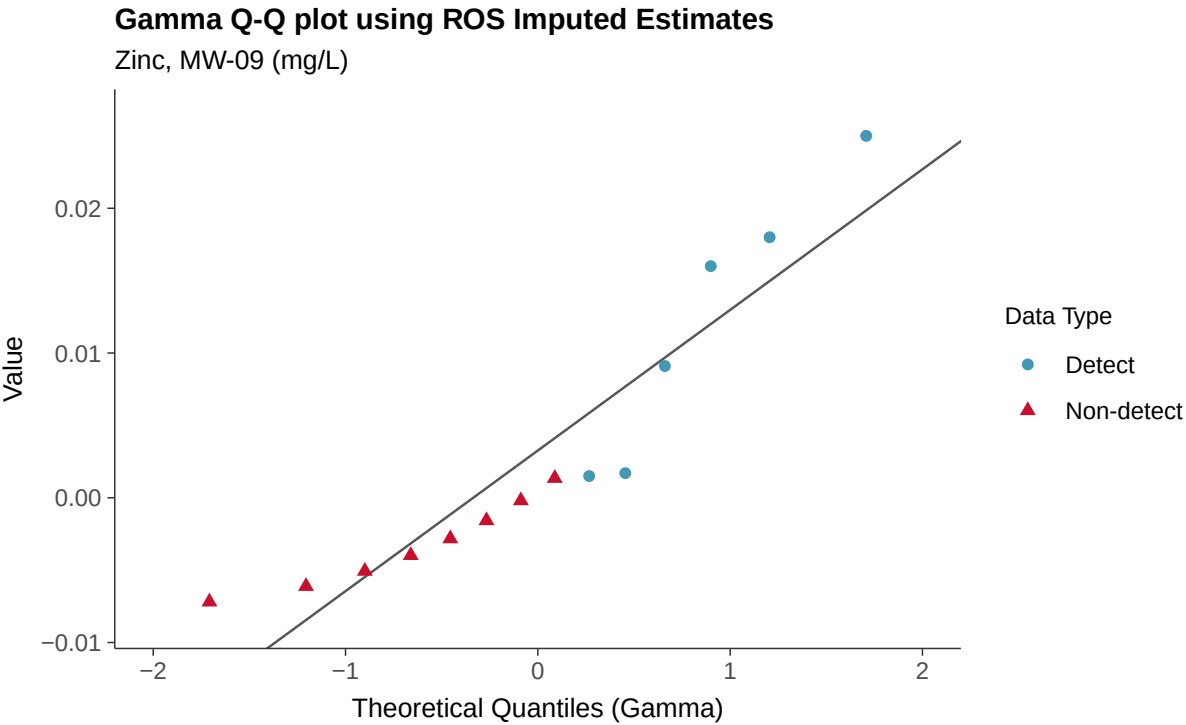
Part 115: Zinc, MW-09

ID: 19_2_5_129





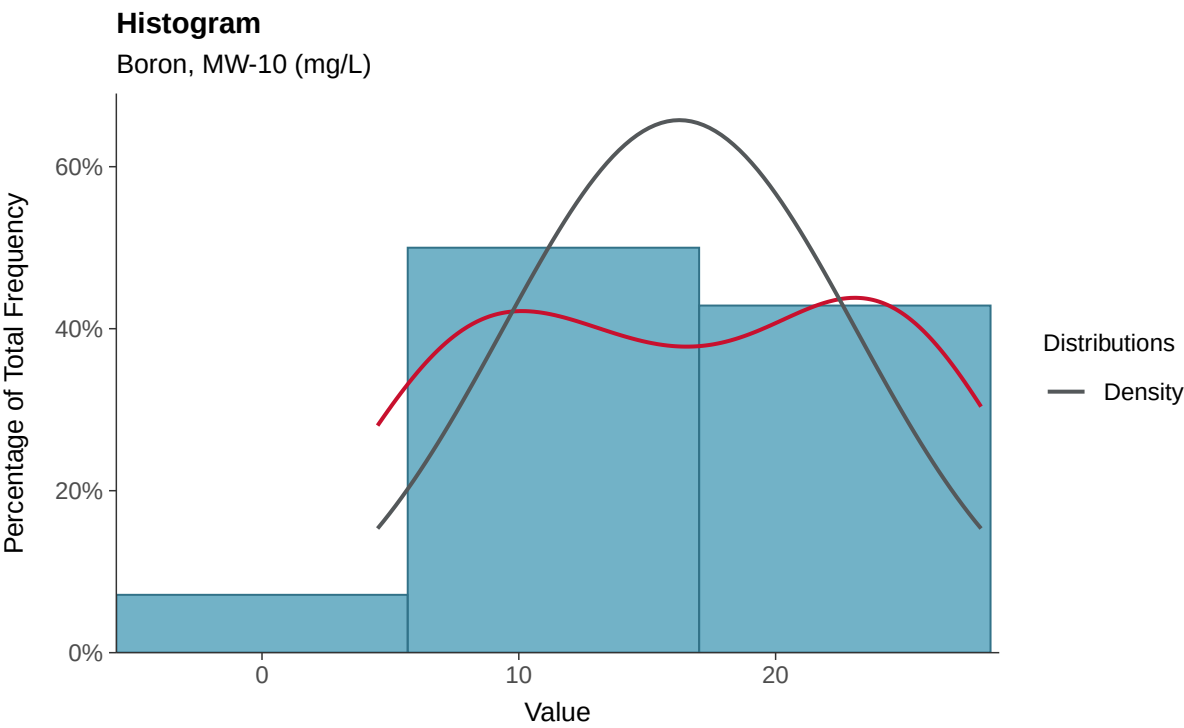
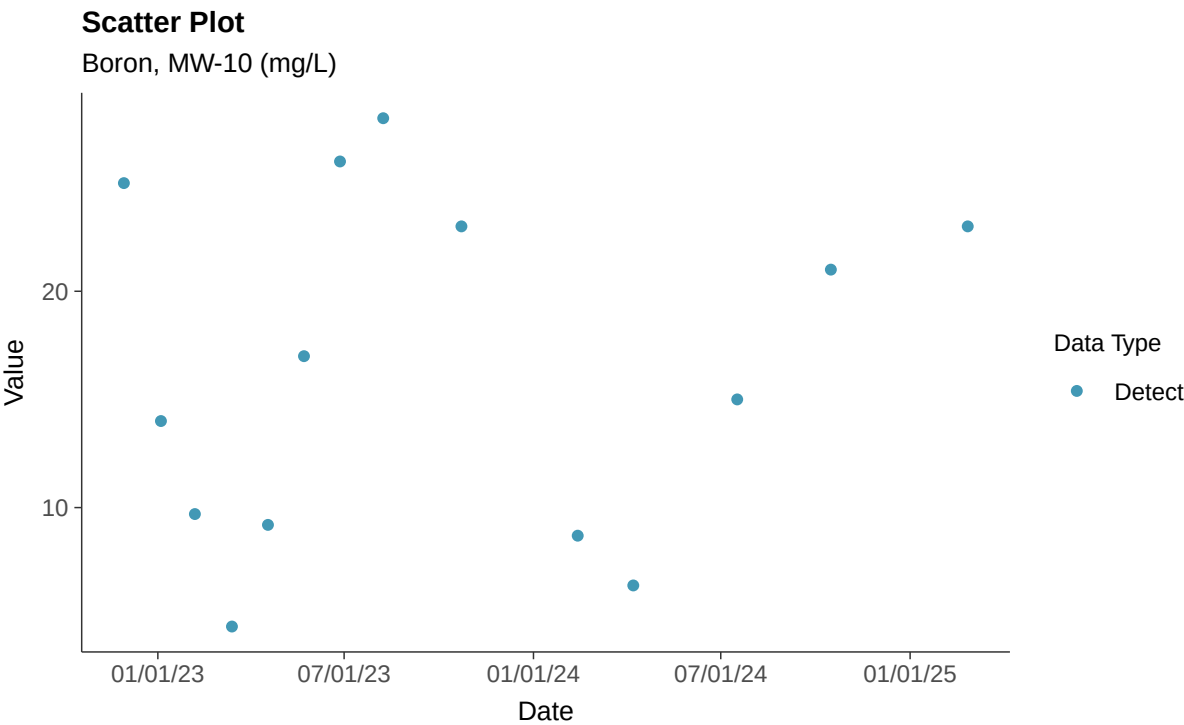


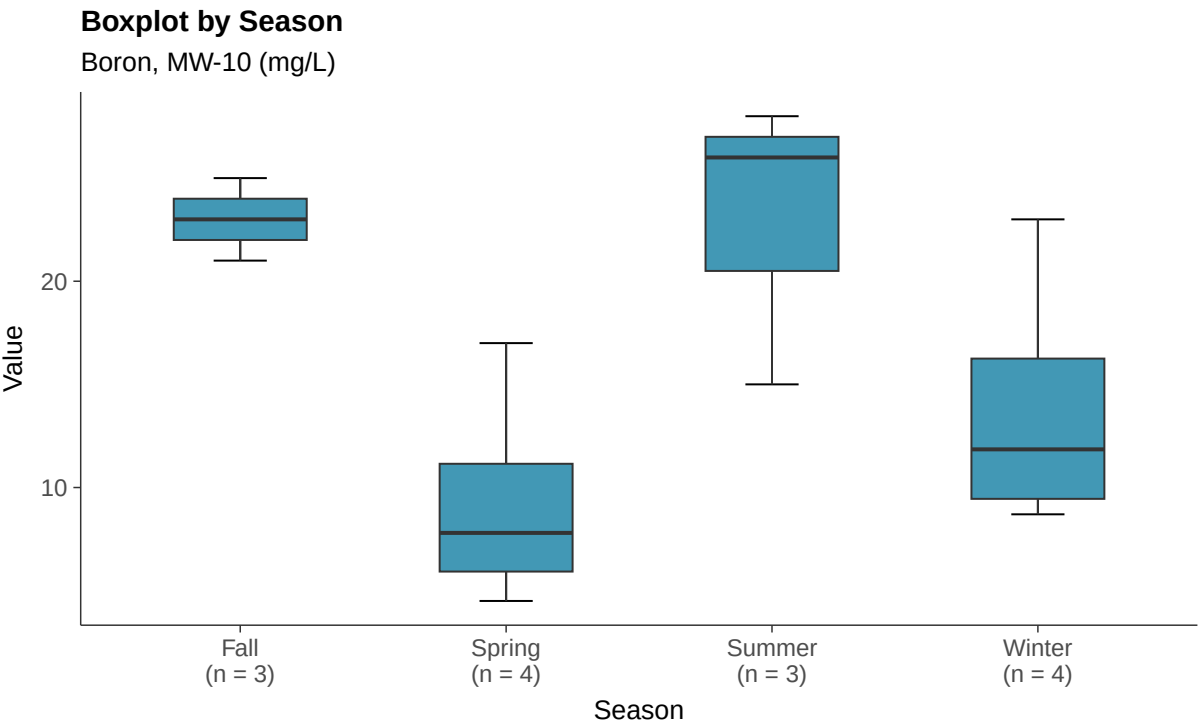
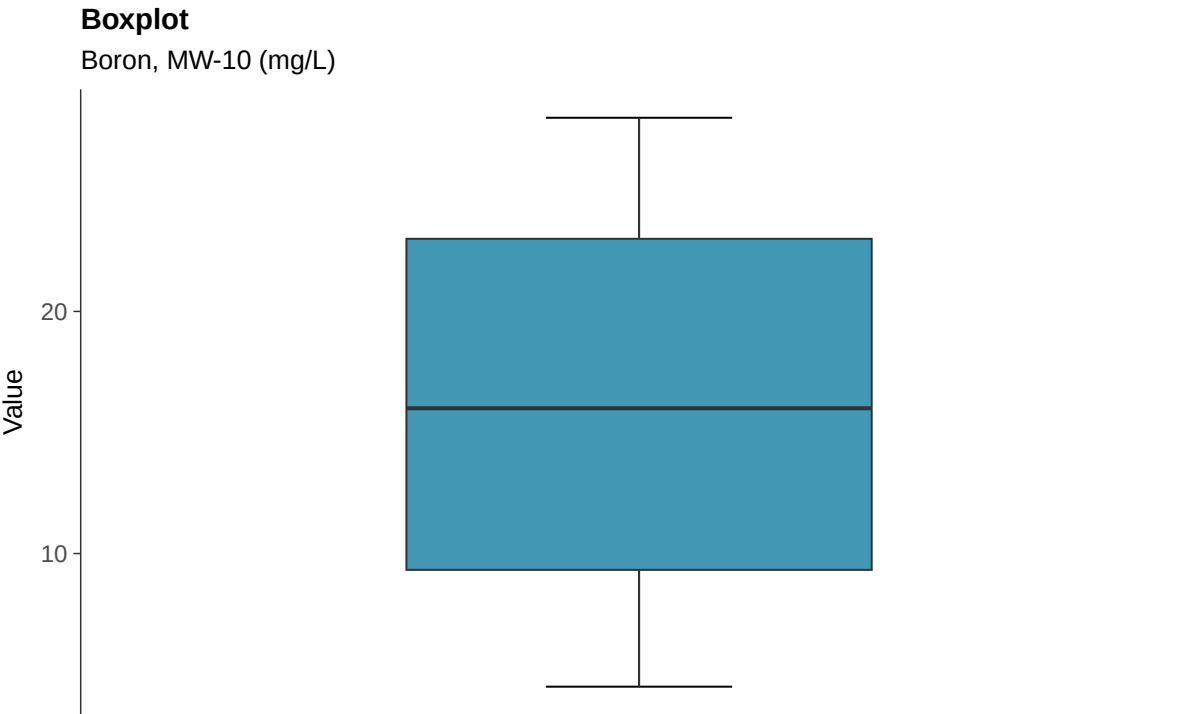


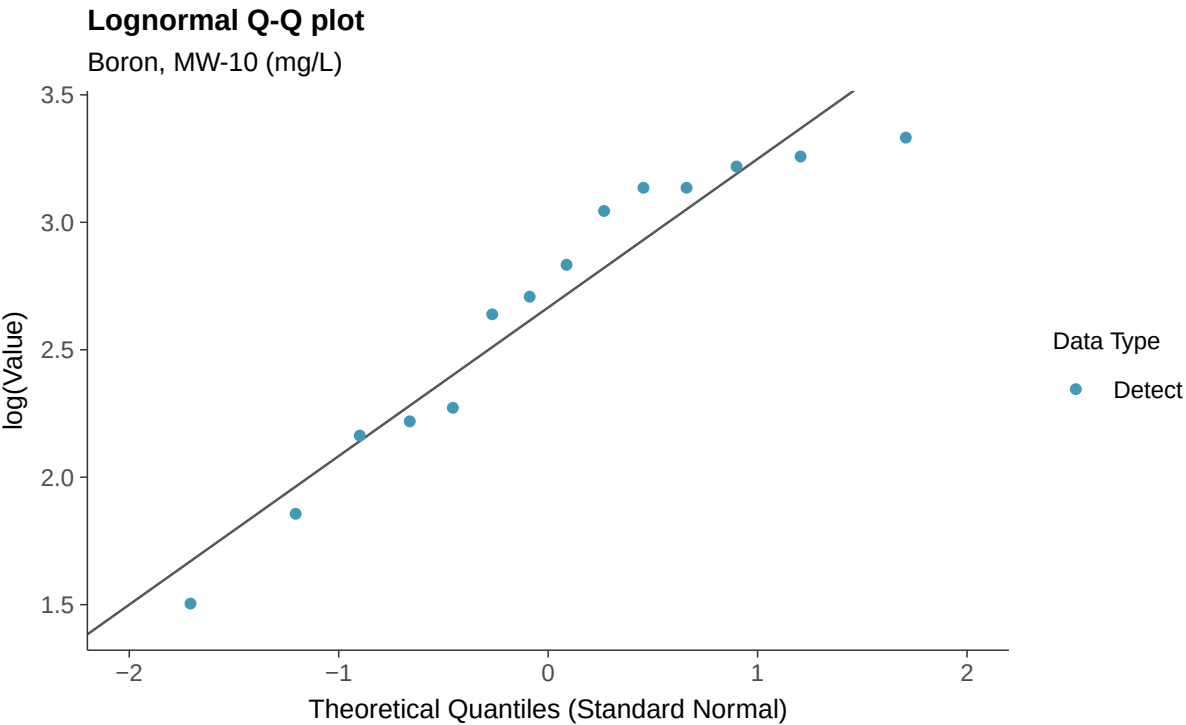
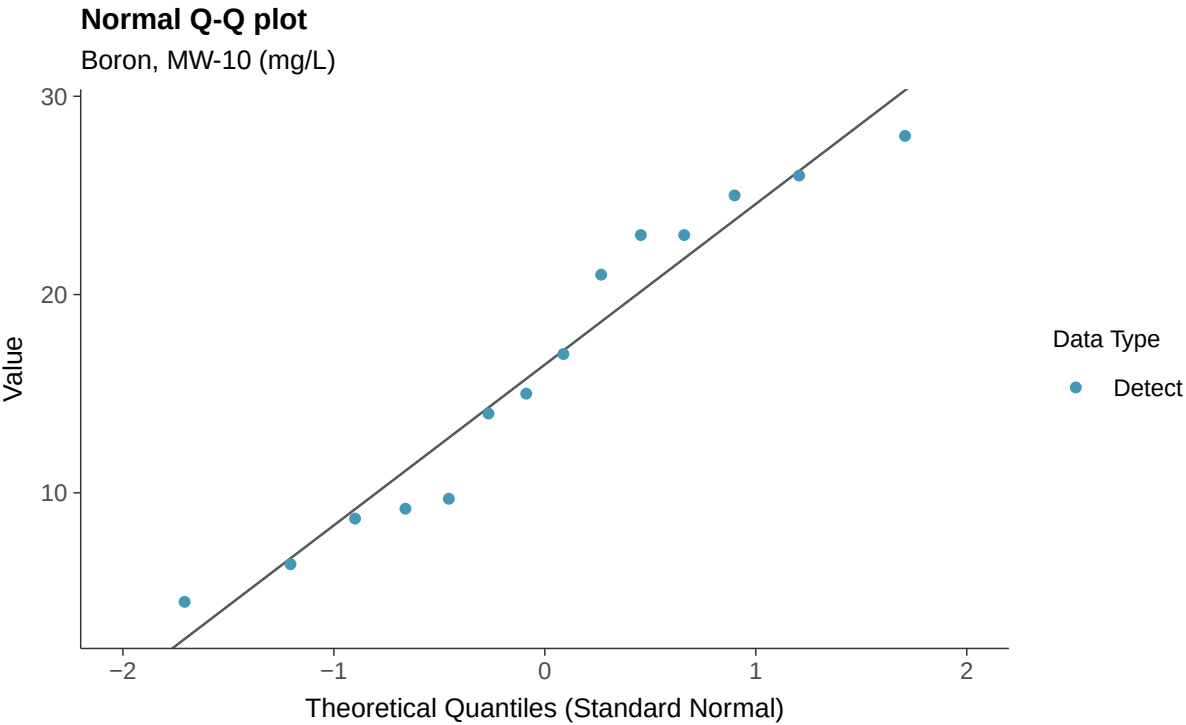


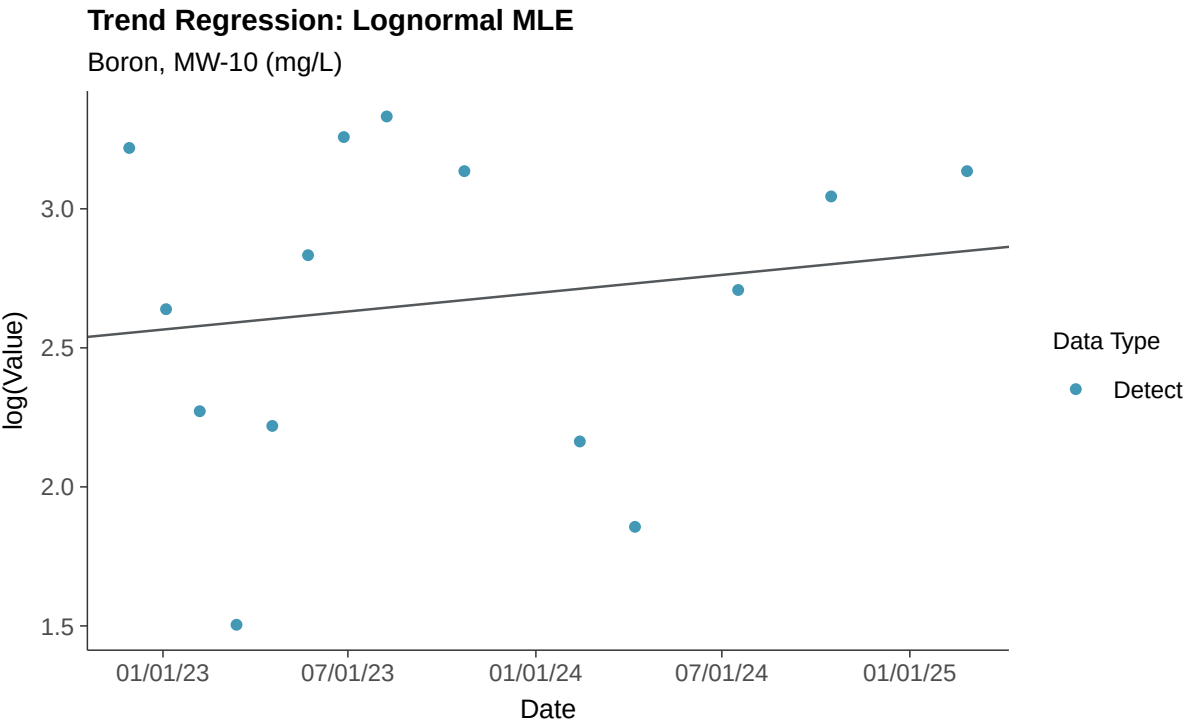
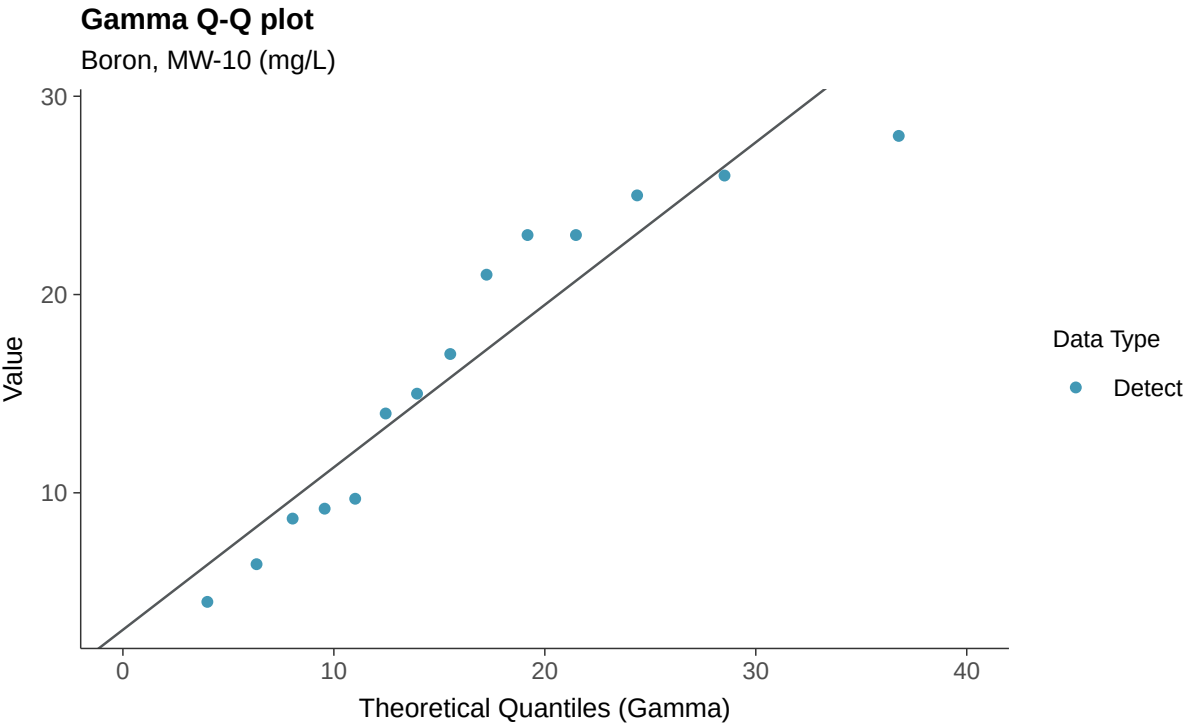
Appendix III: Boron, MW-10

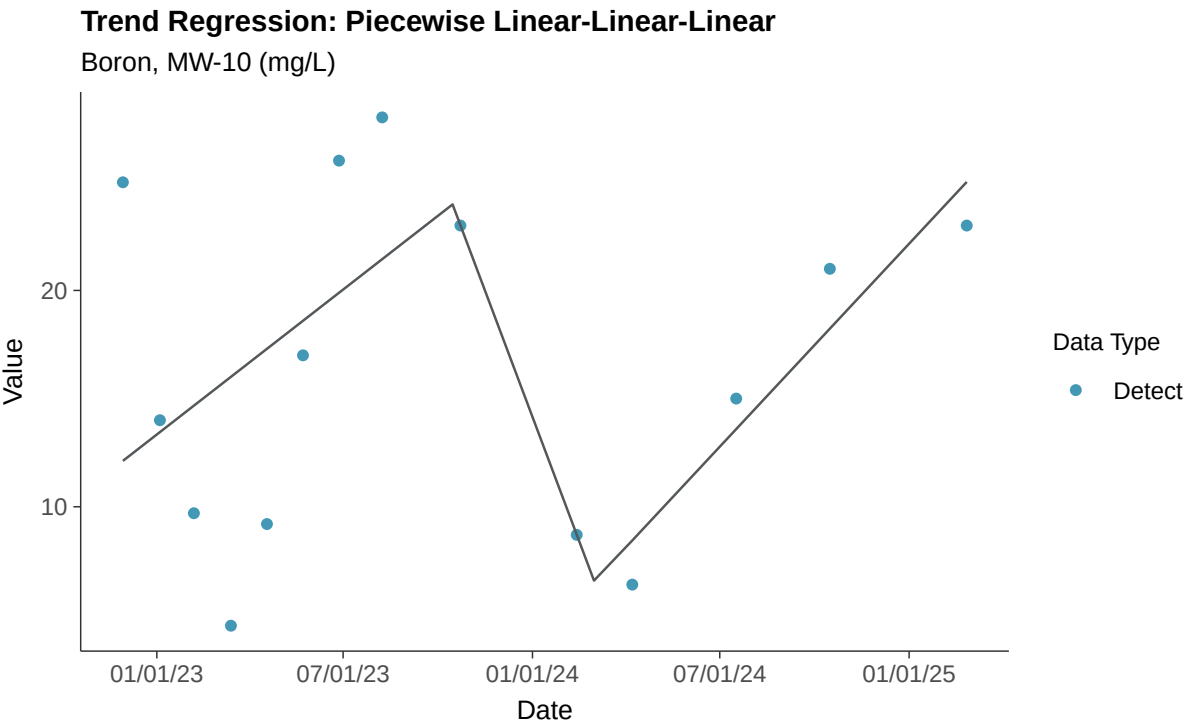
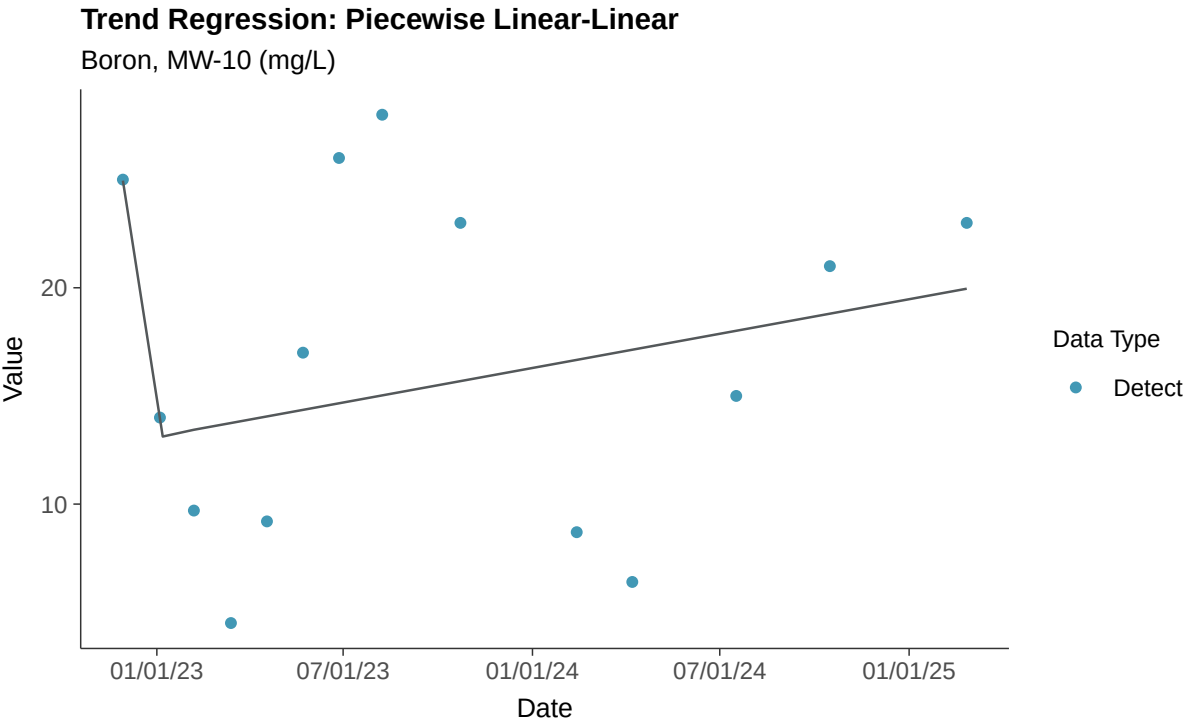
ID: 20_3_3_105







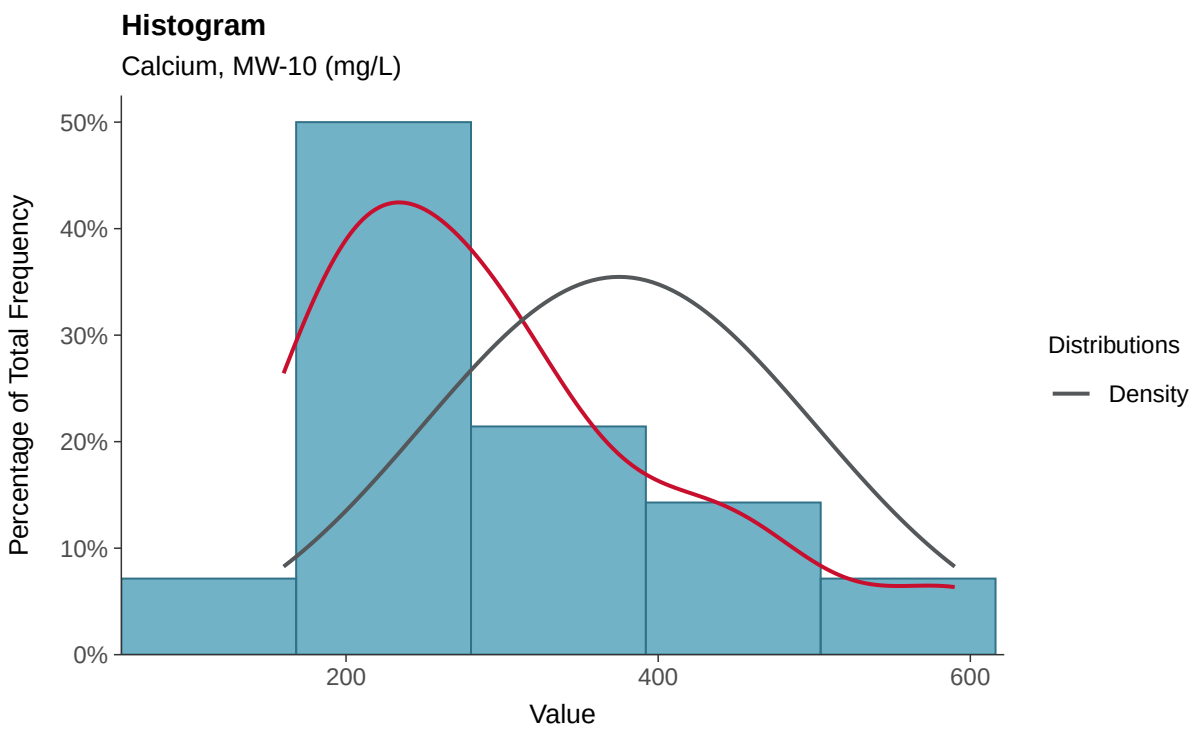
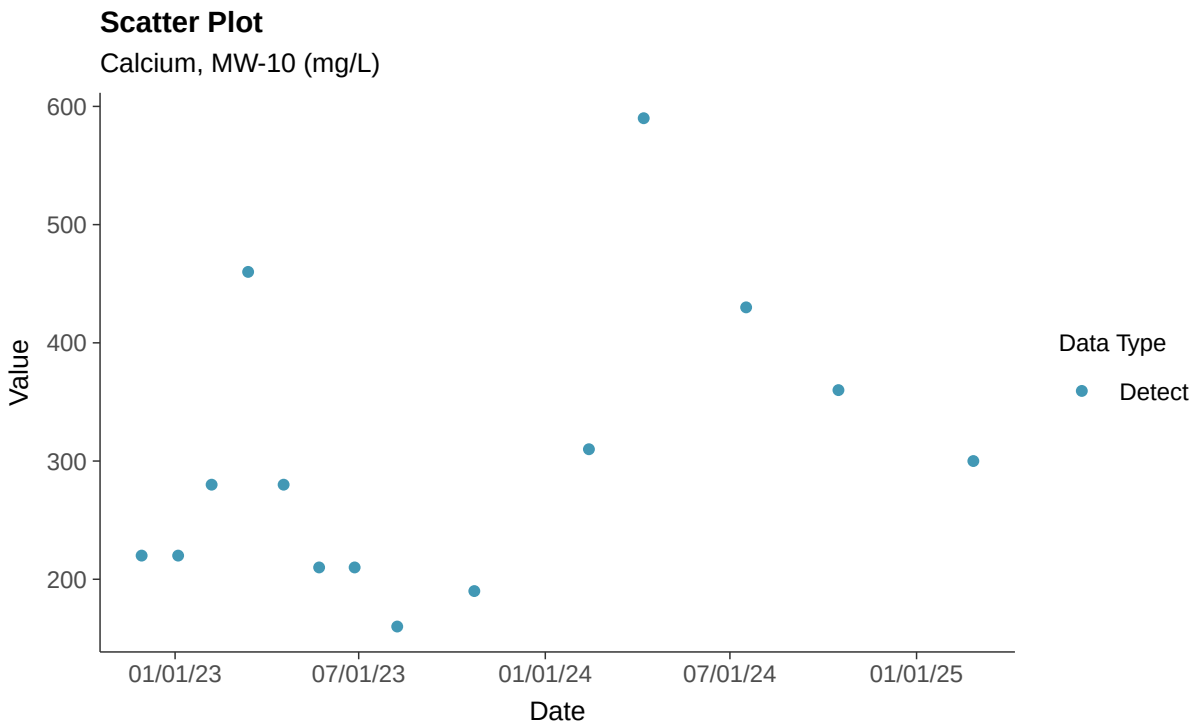


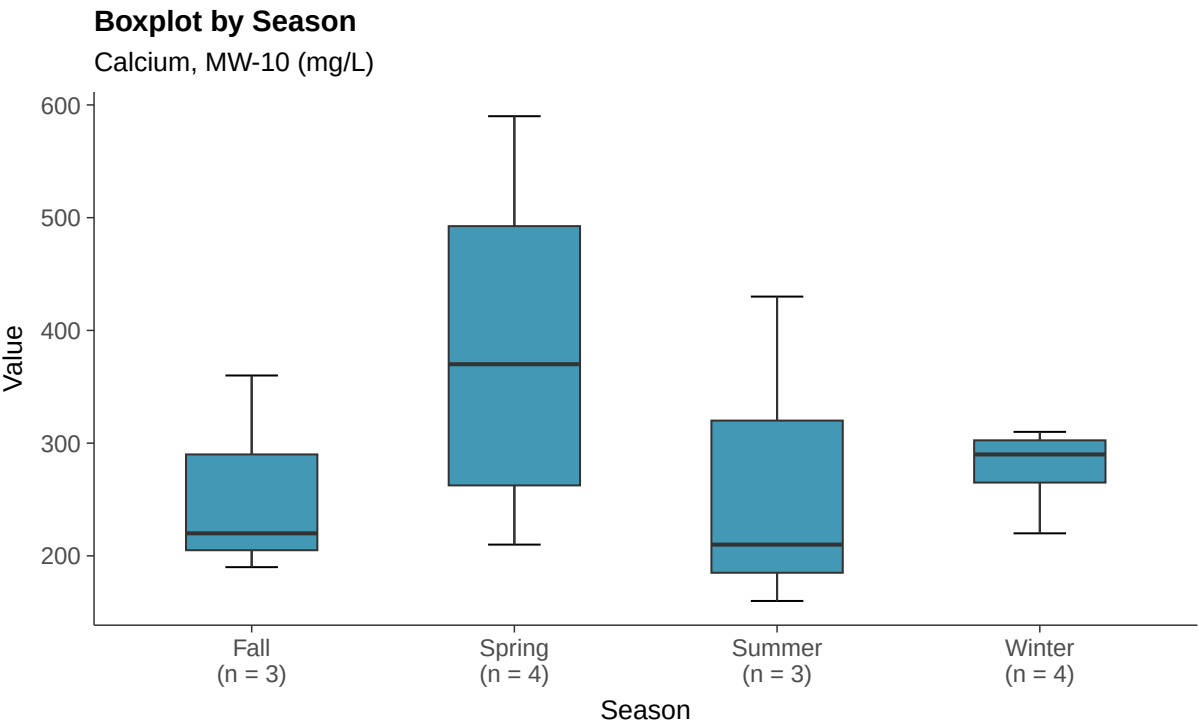
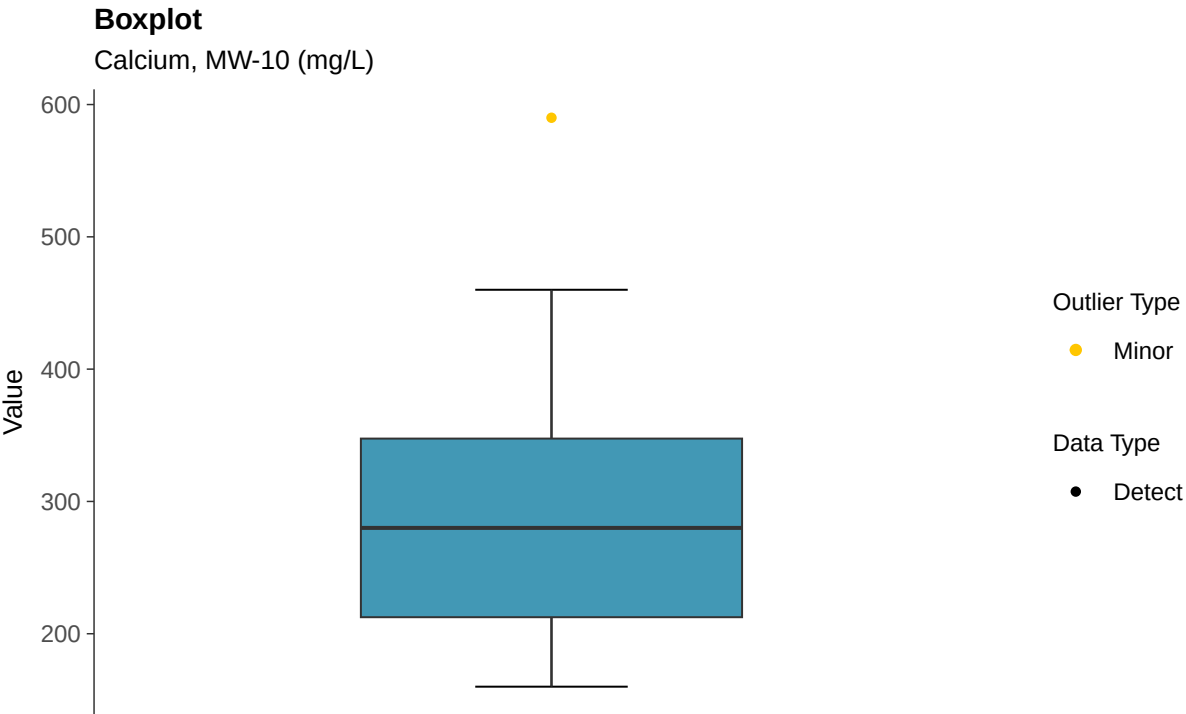


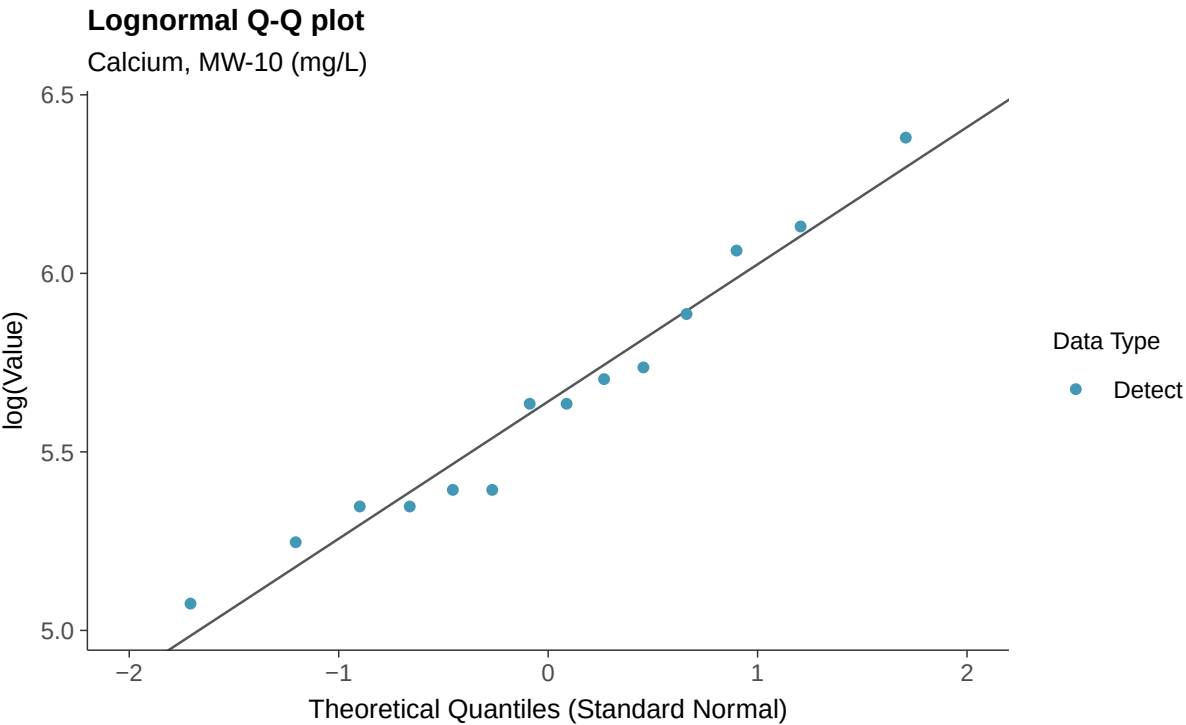
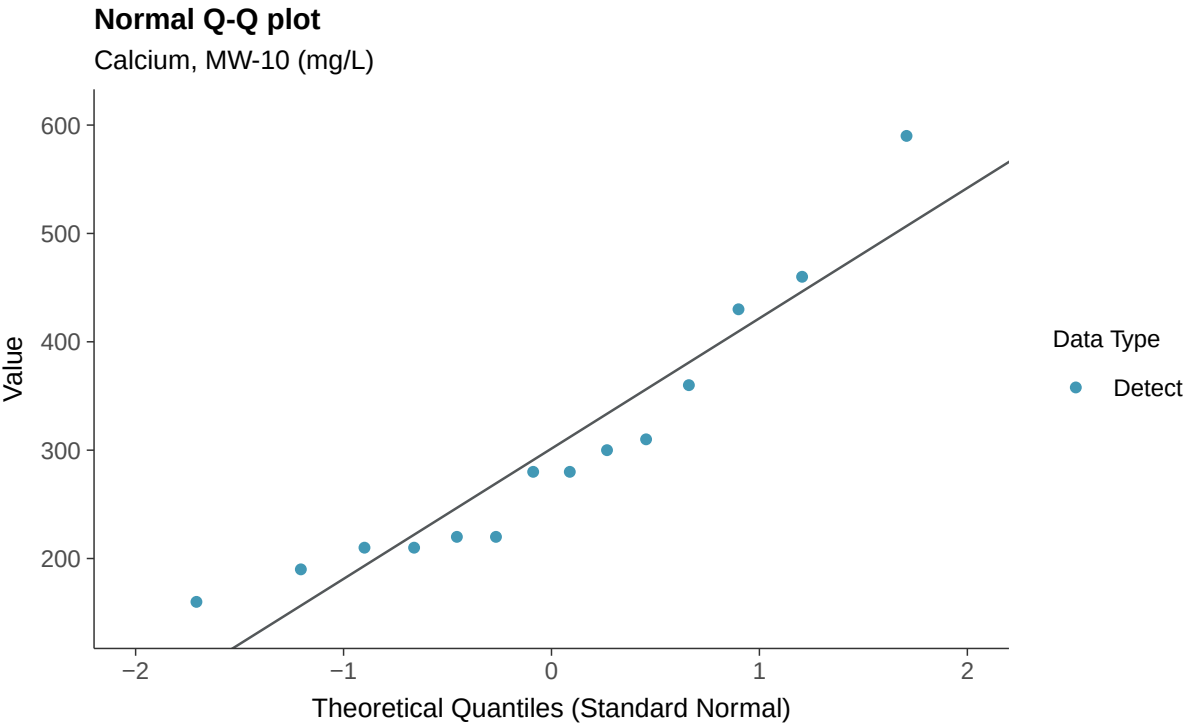


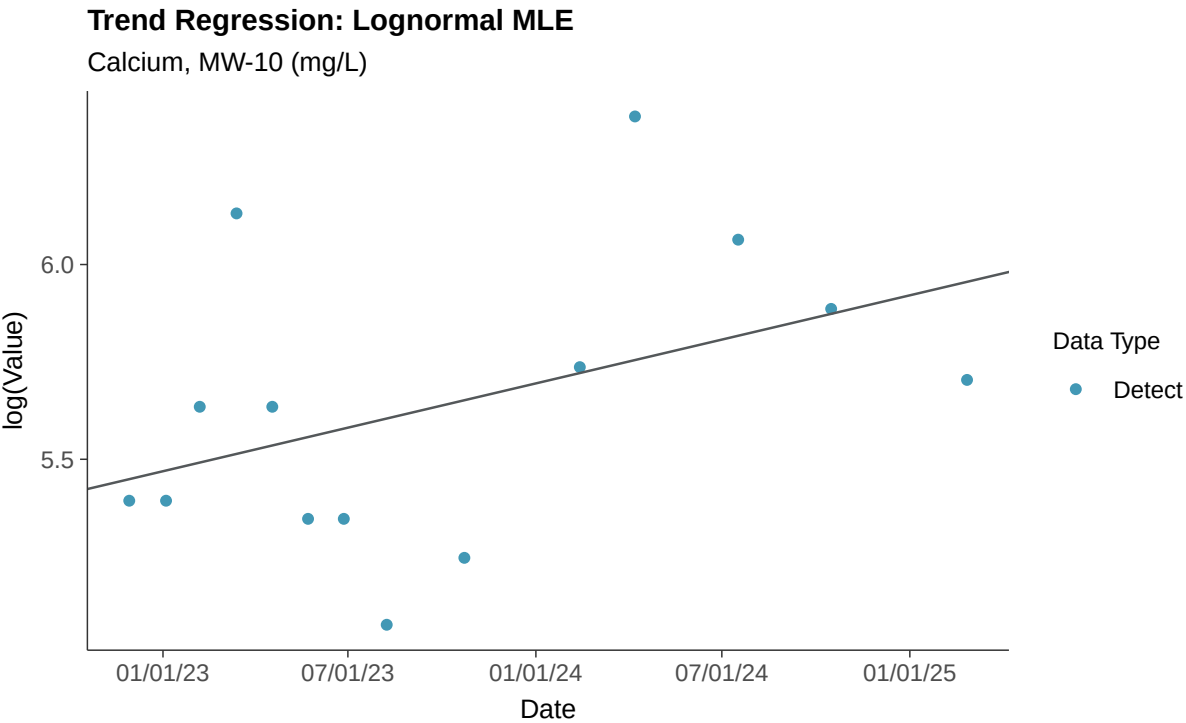
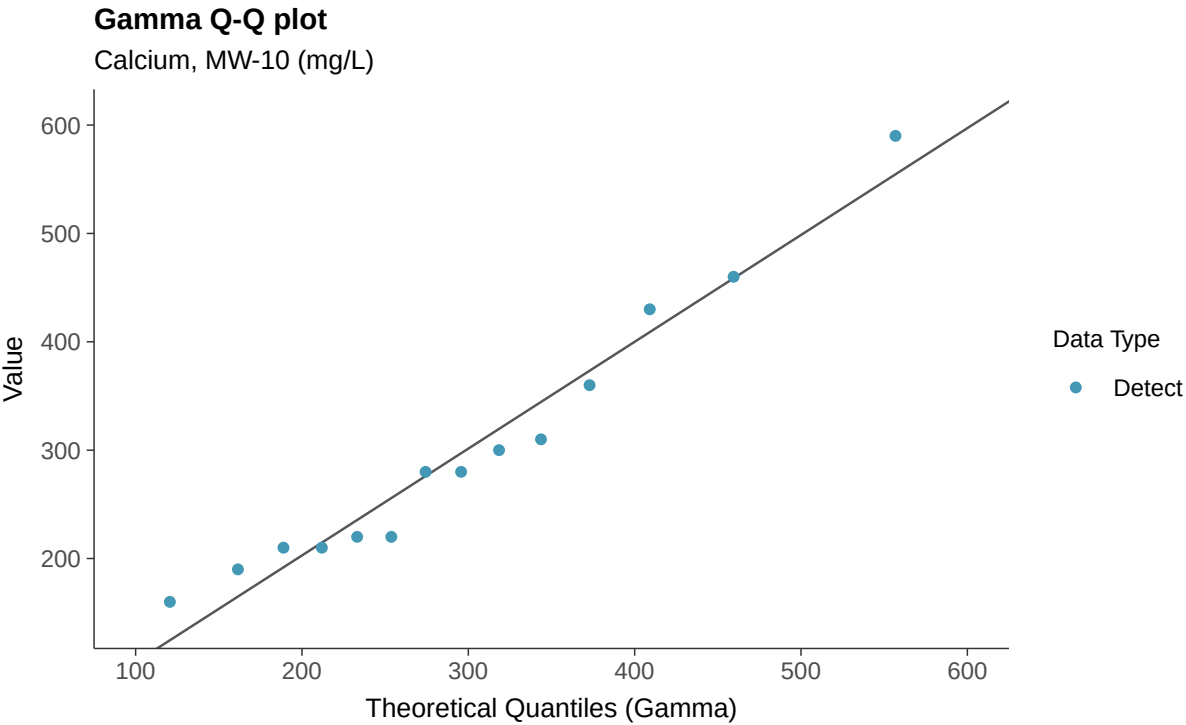
Appendix III: Calcium, MW-10

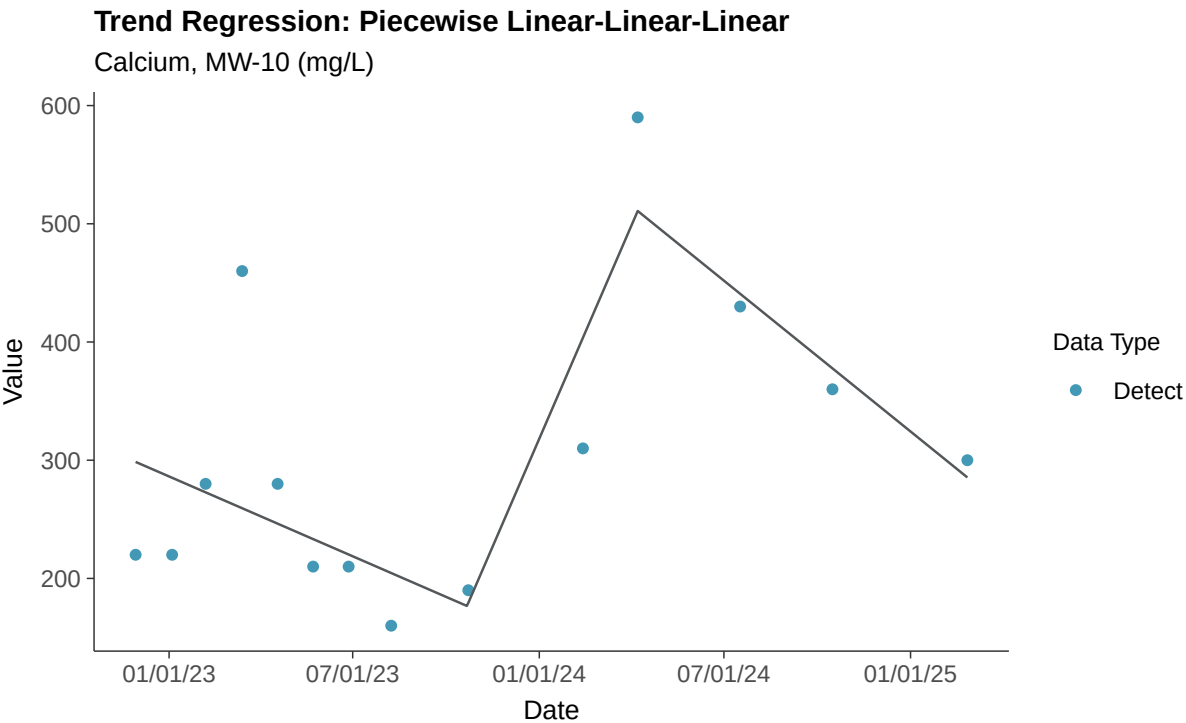
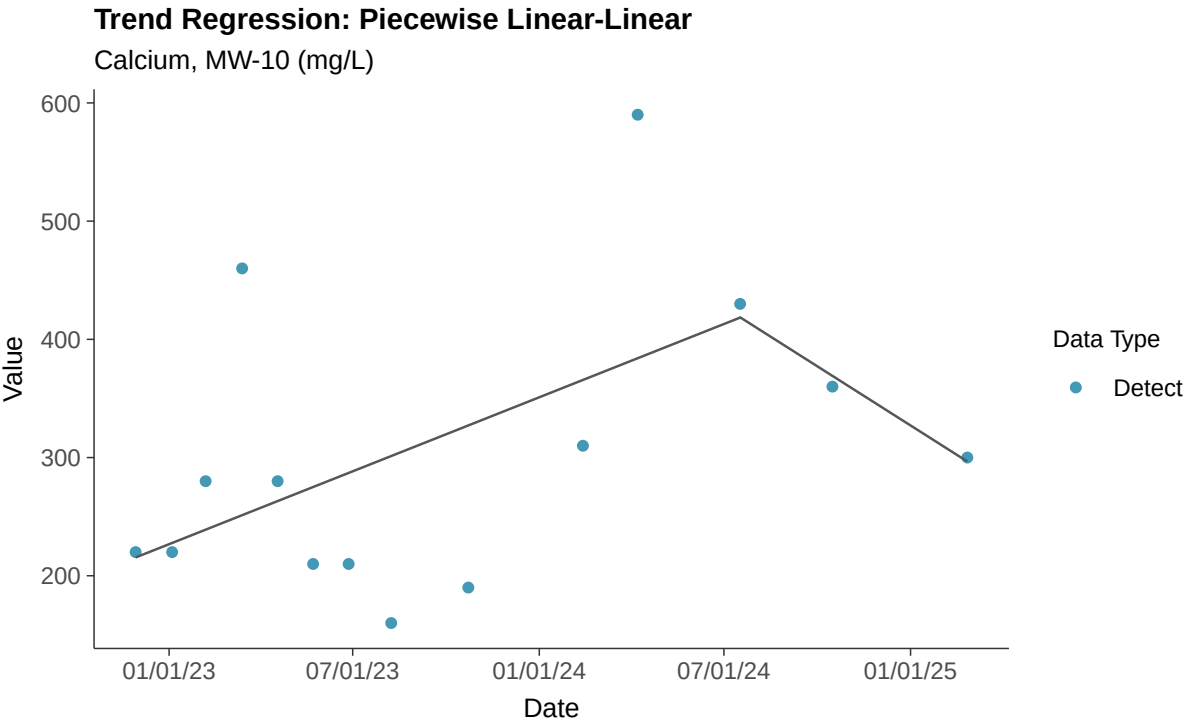
ID: 20_3_3_107







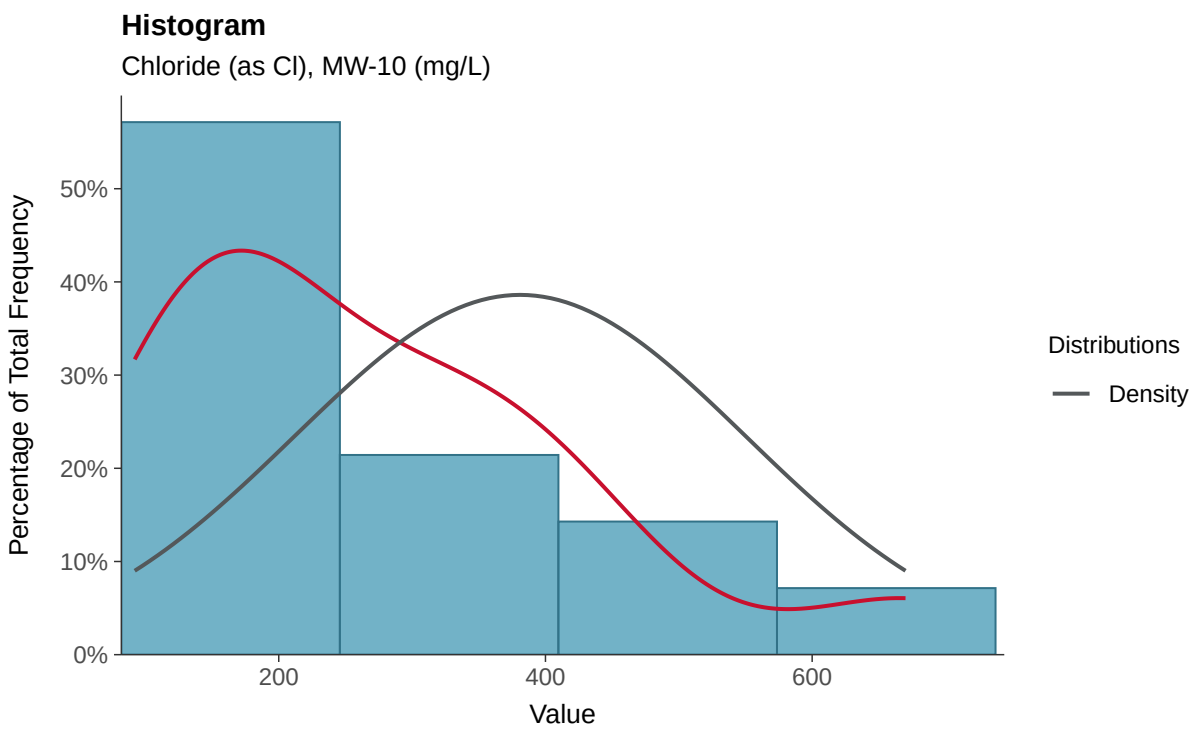
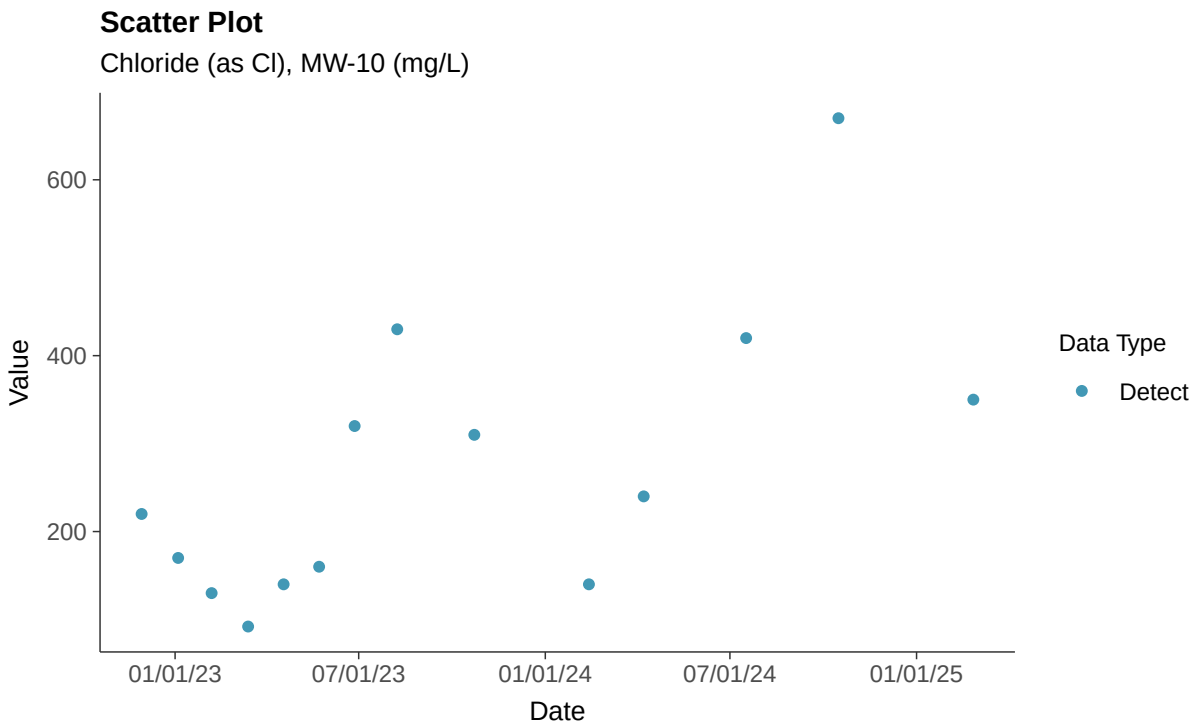


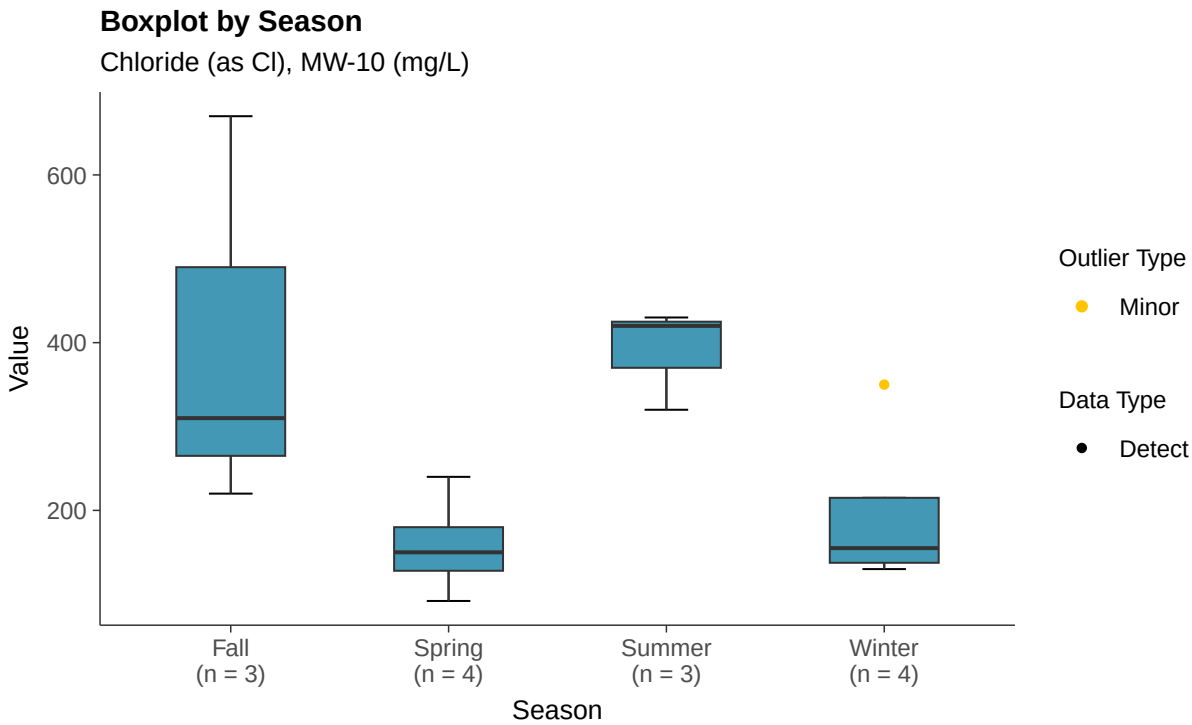
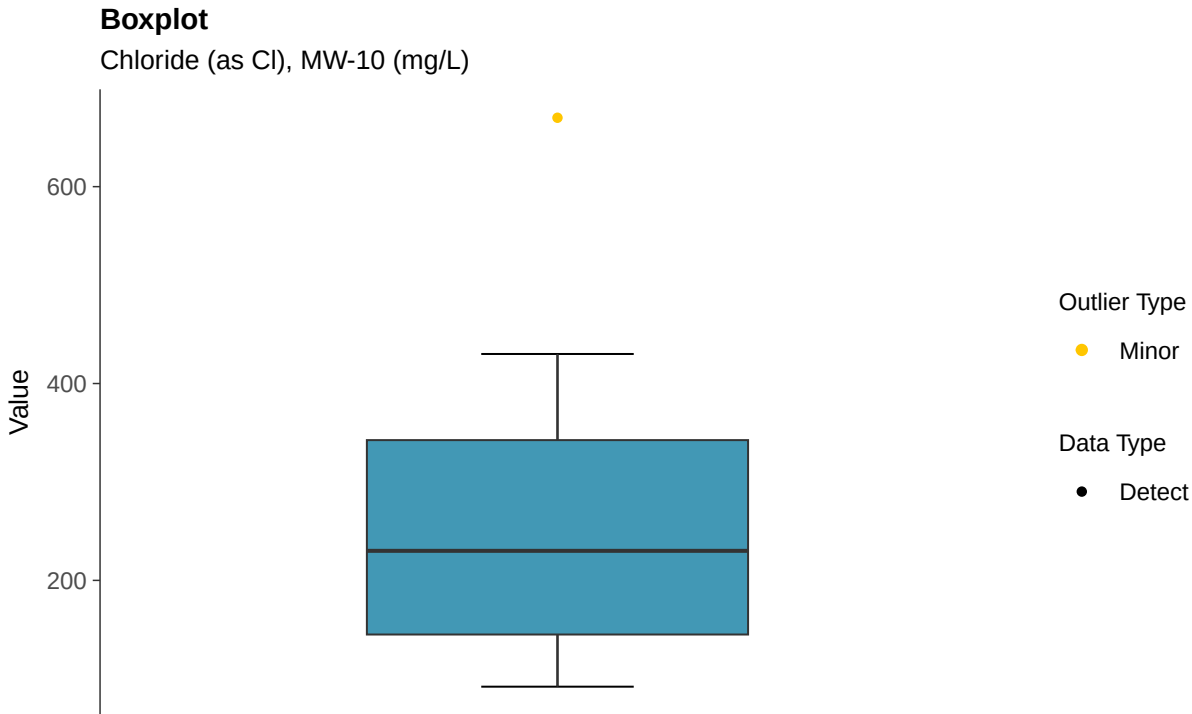


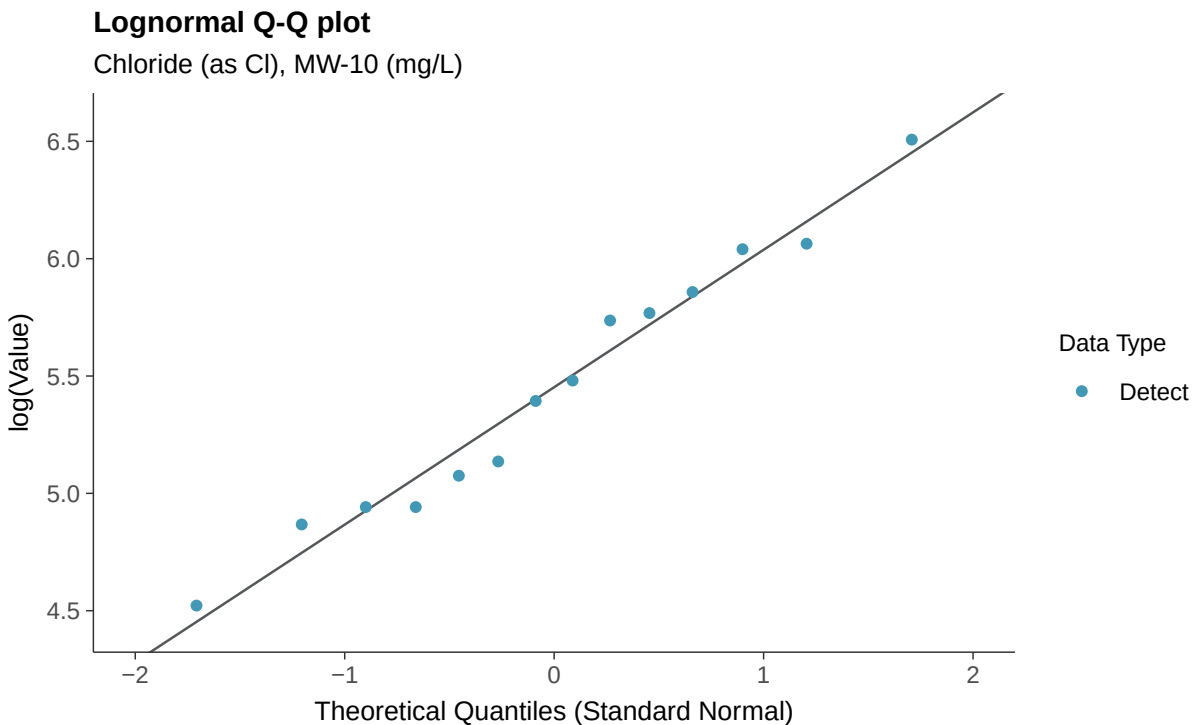
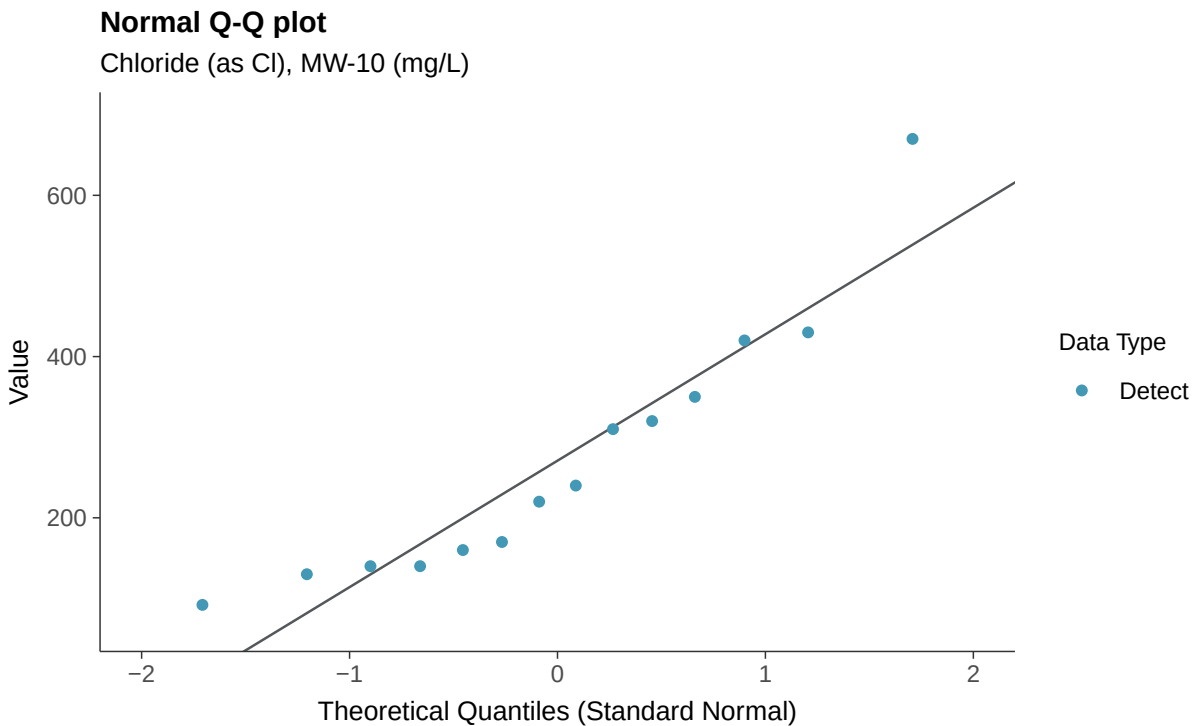


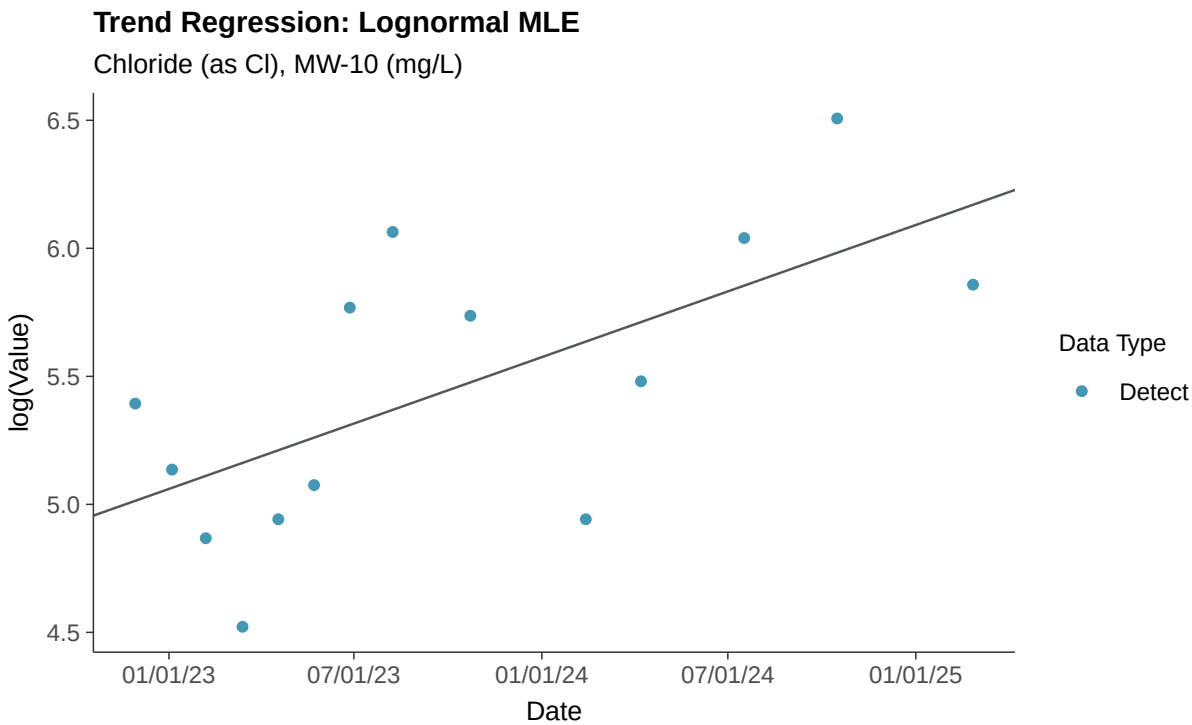
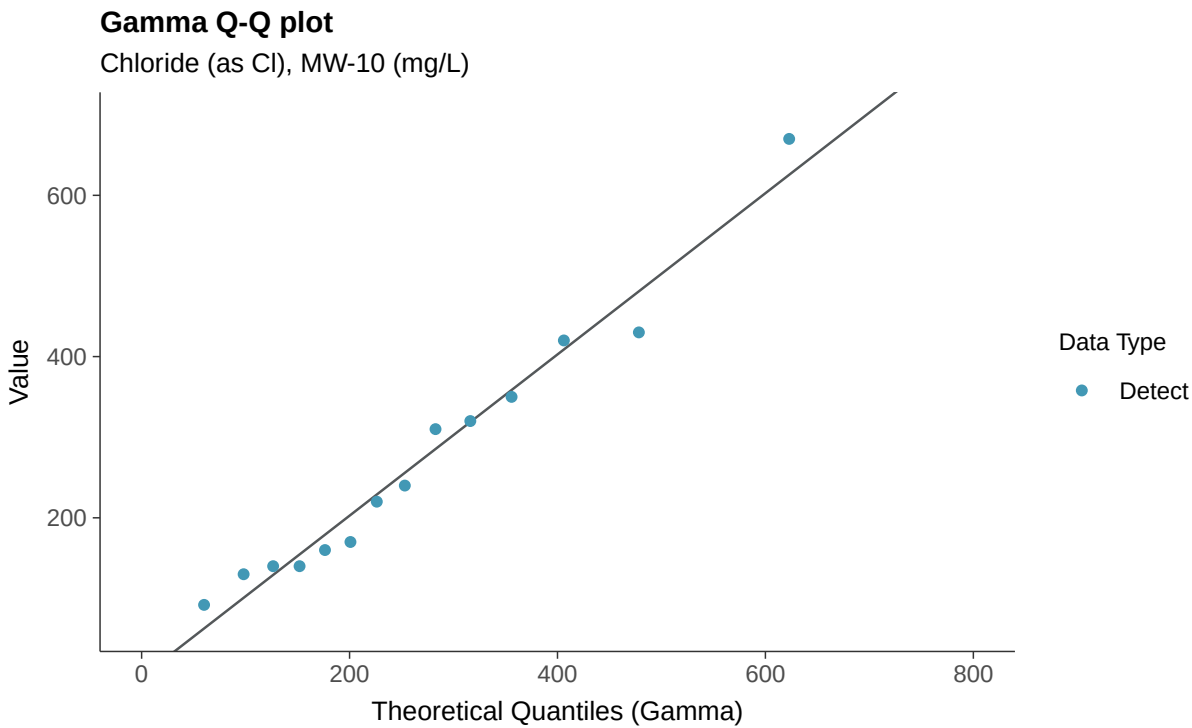
Appendix III: Chloride (as Cl), MW-10

ID: 20_3_3_108





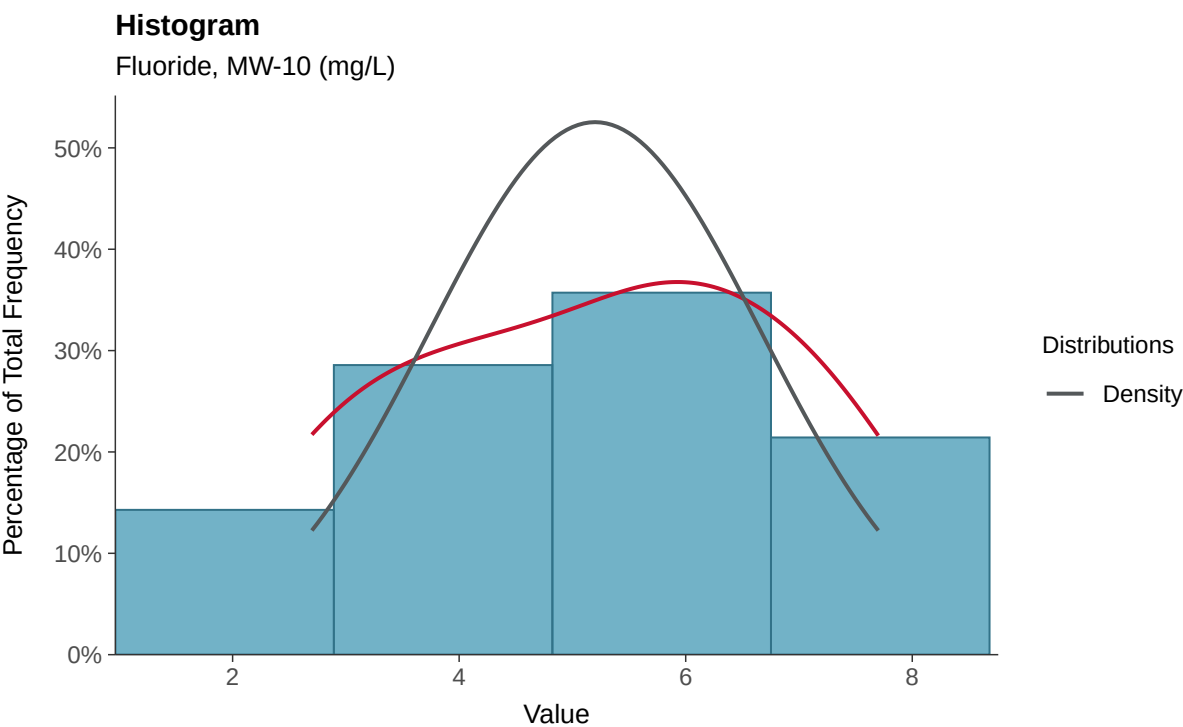
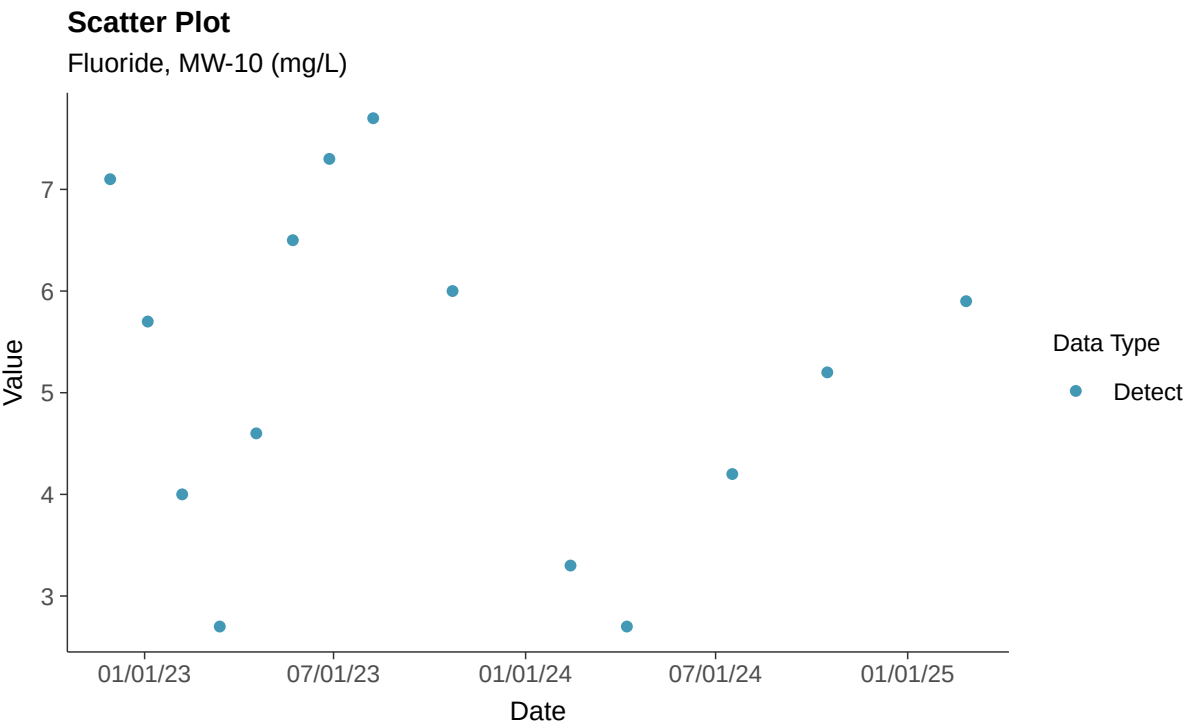


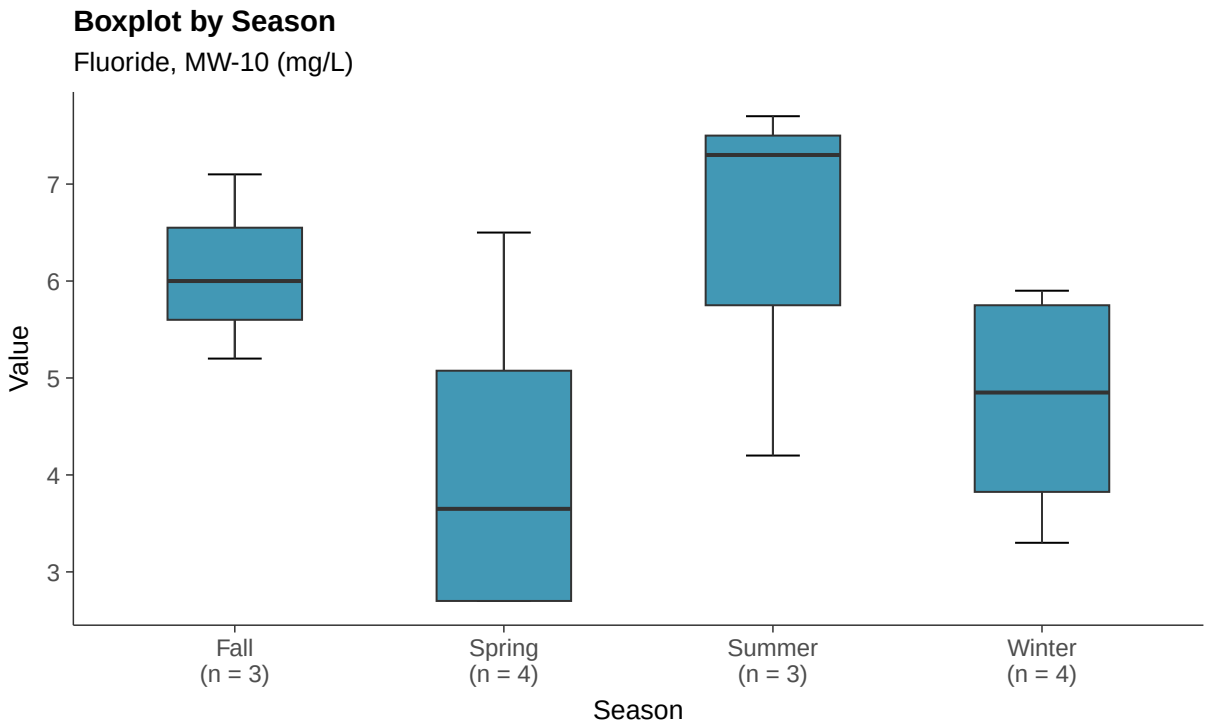
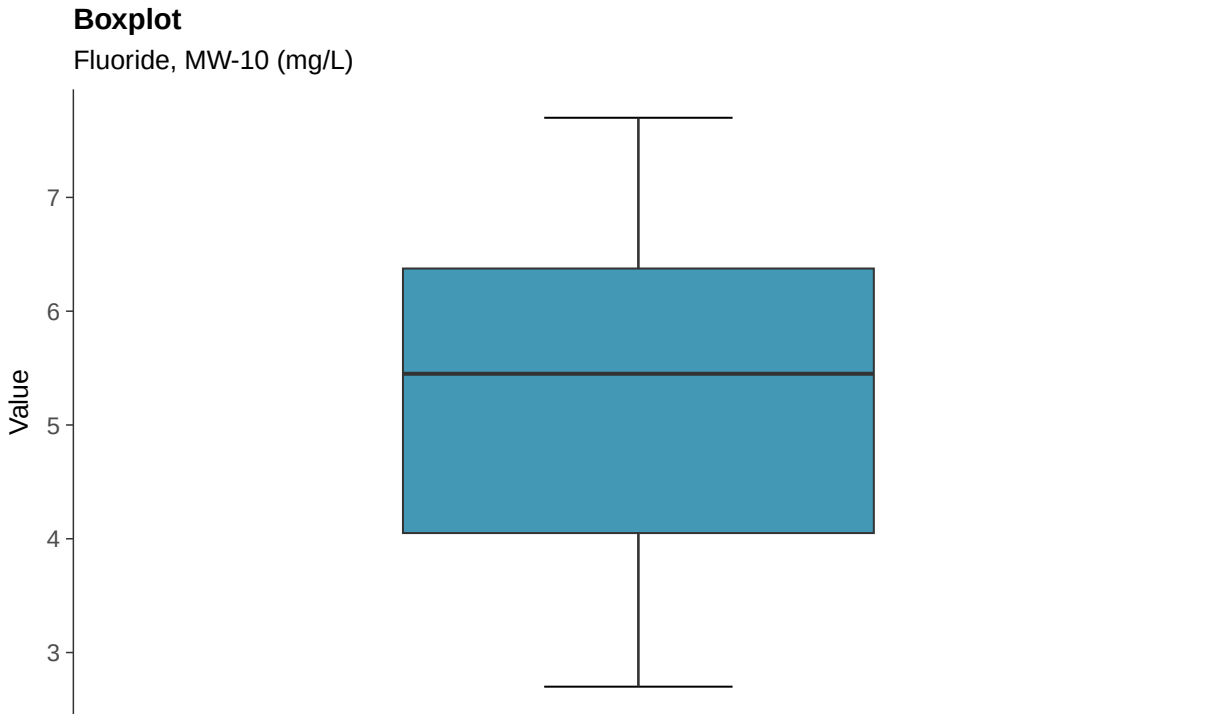


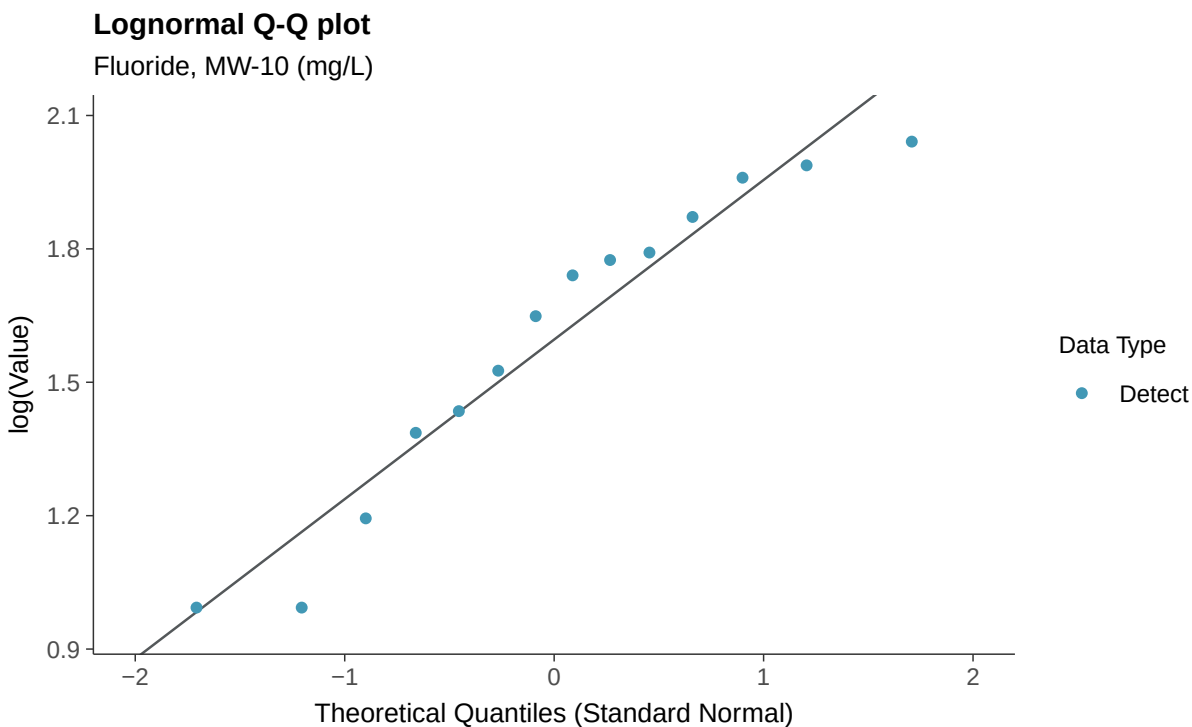
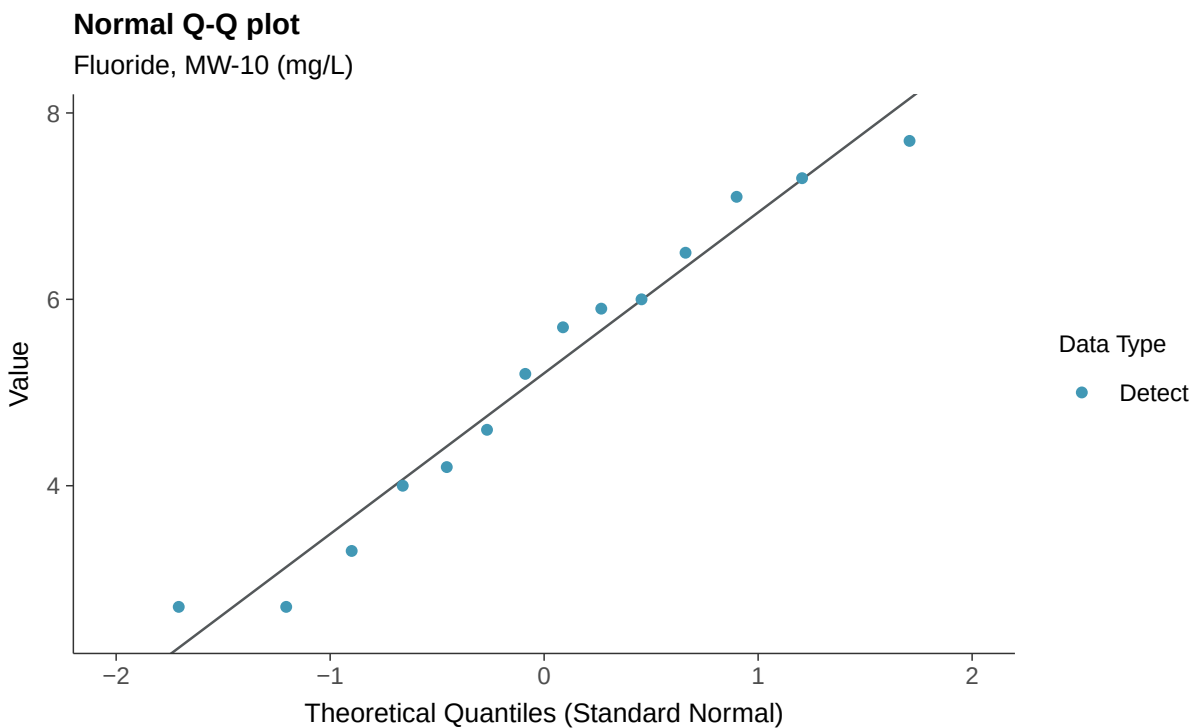


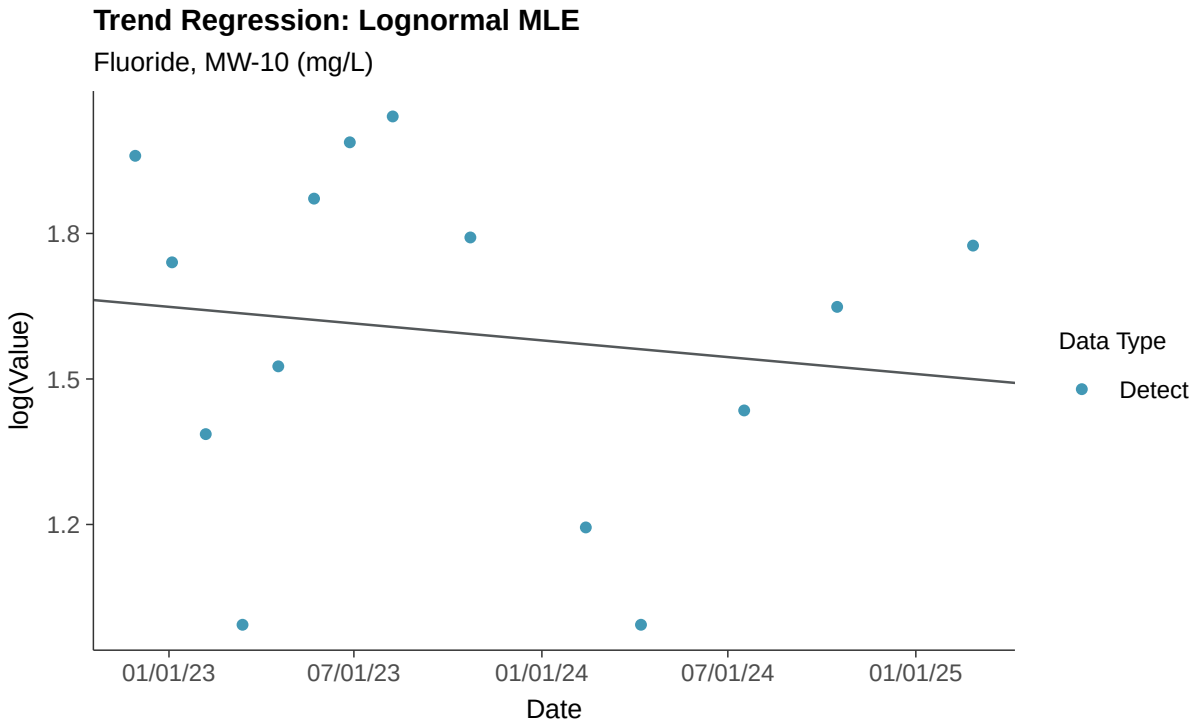
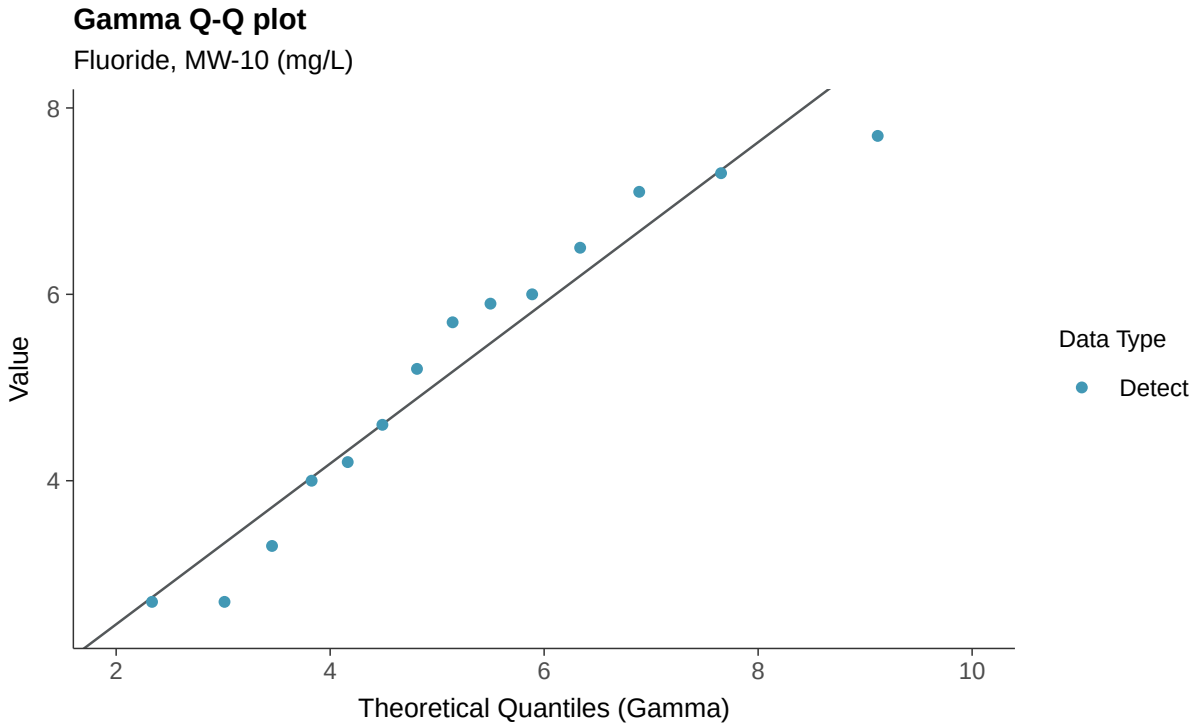
Appendix III: Fluoride, MW-10

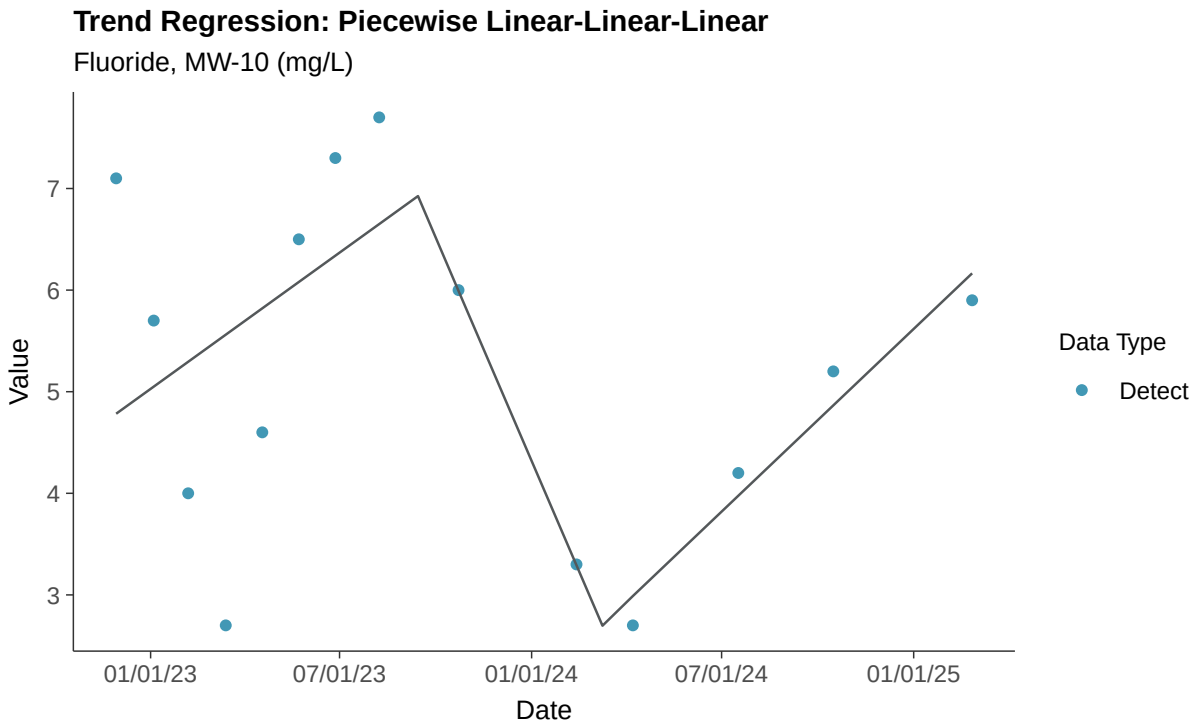
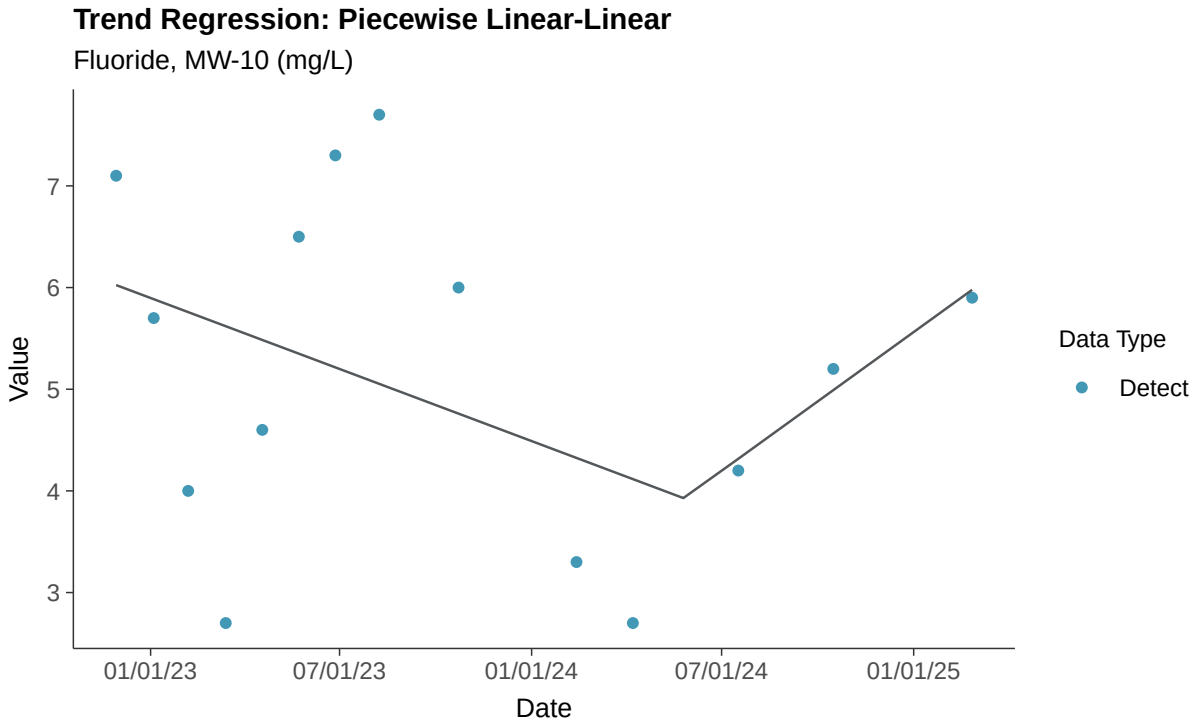
ID: 20_3_3_112







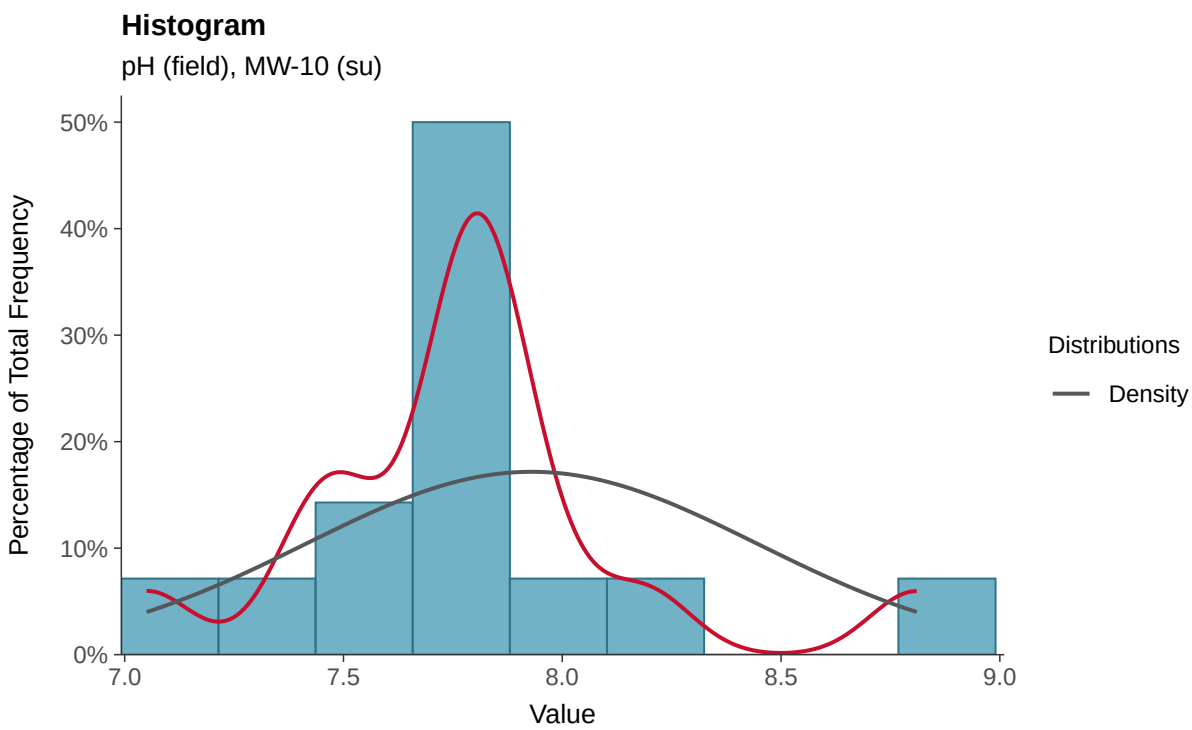
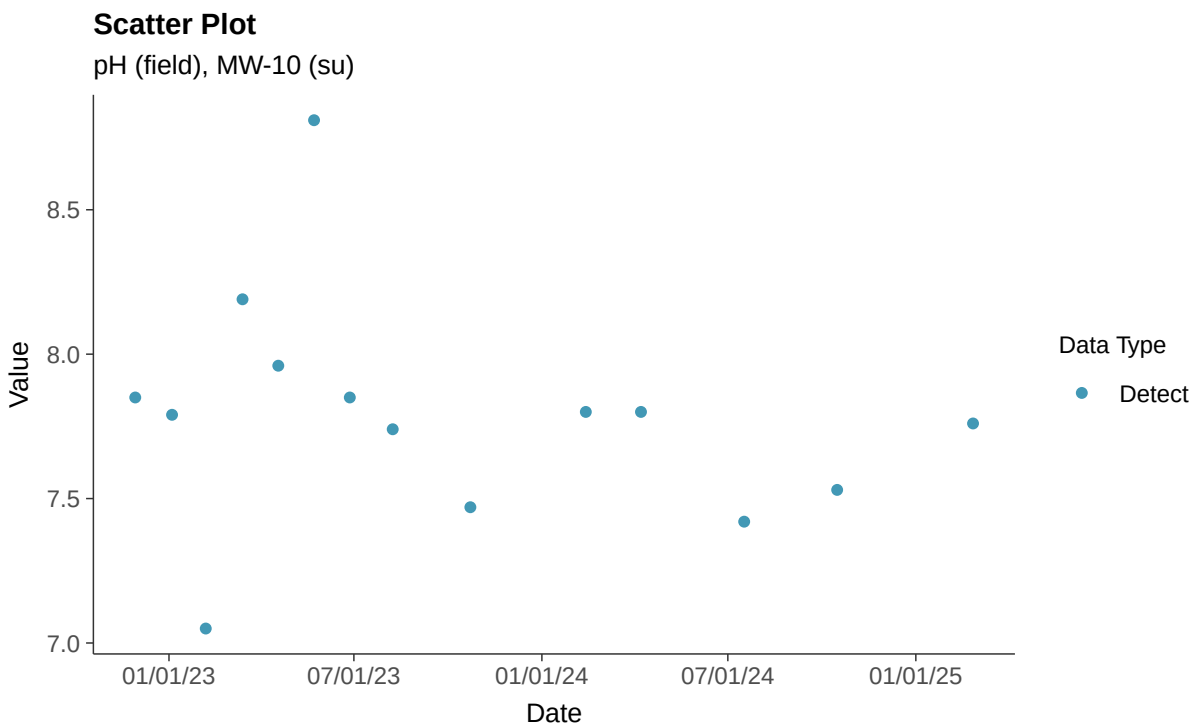


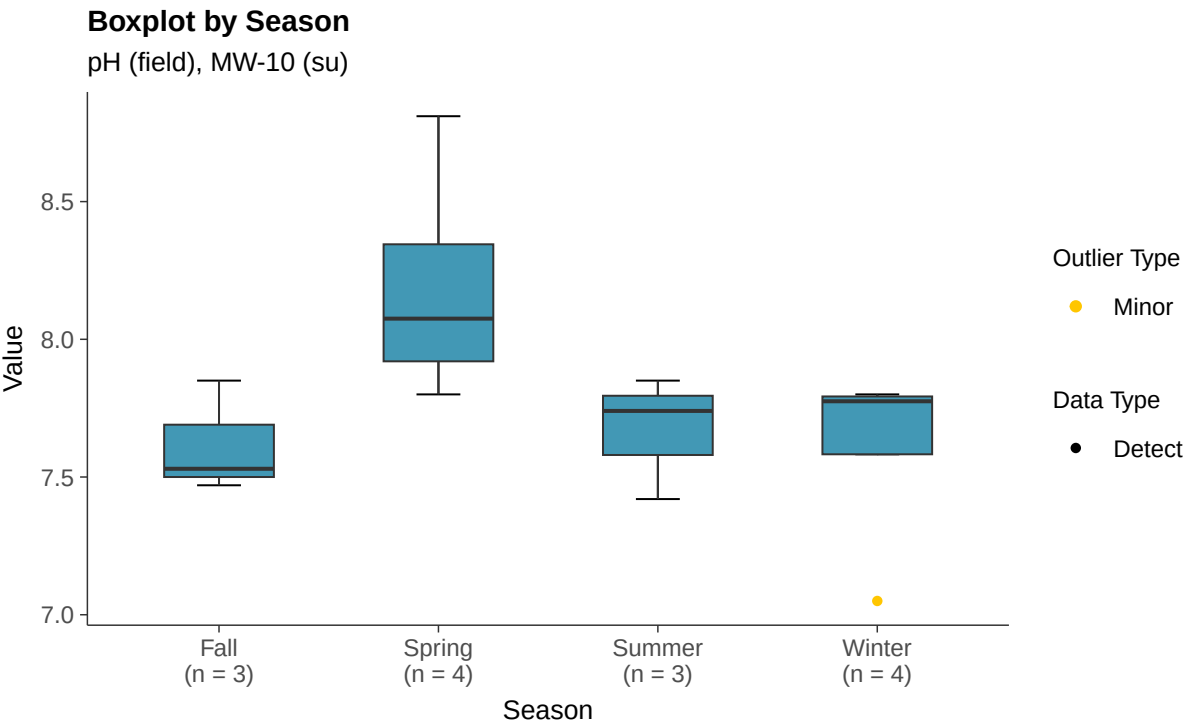
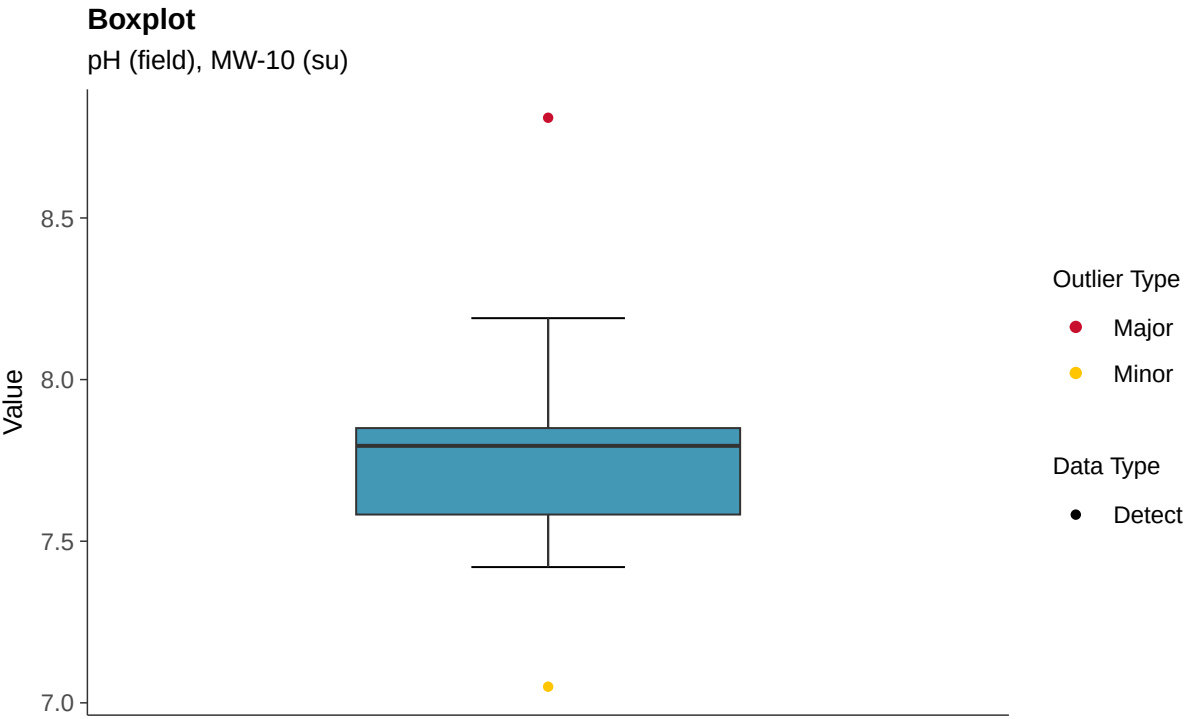


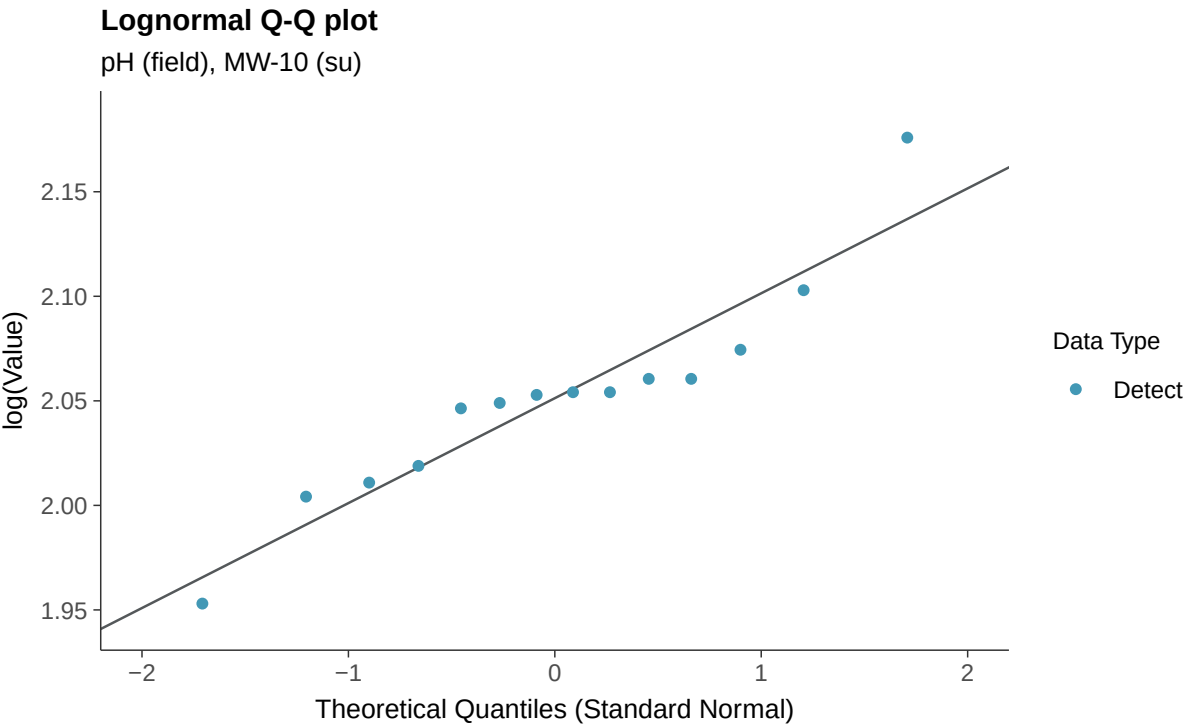
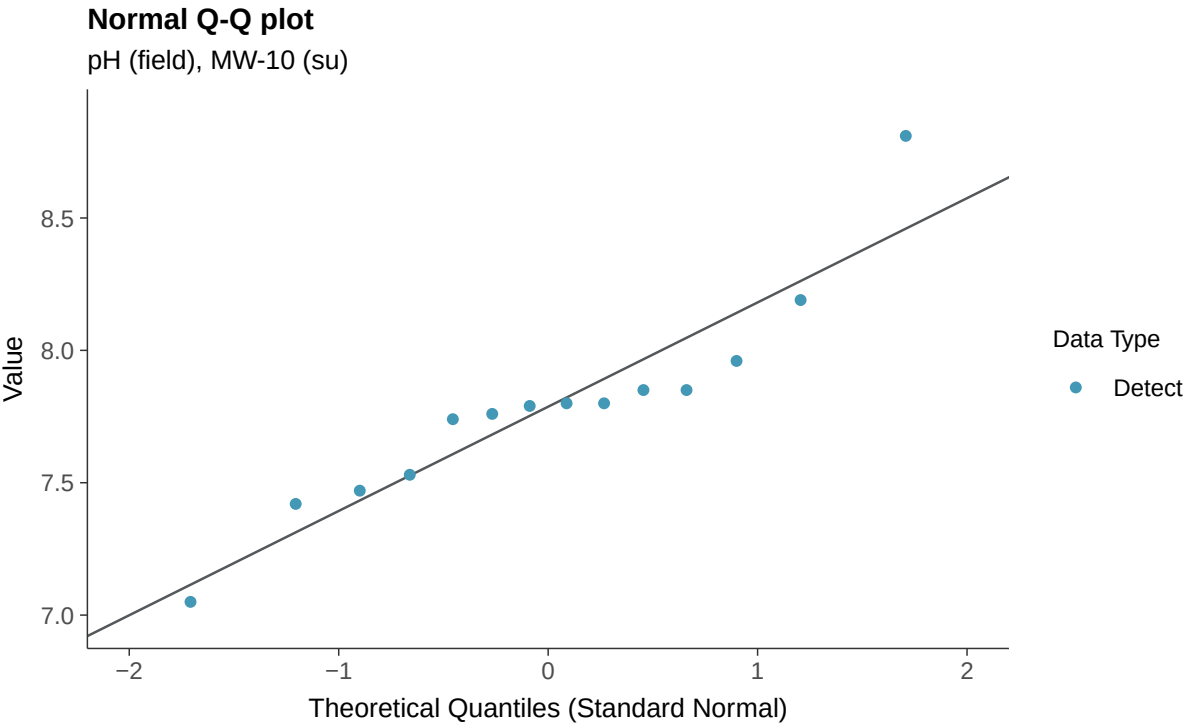


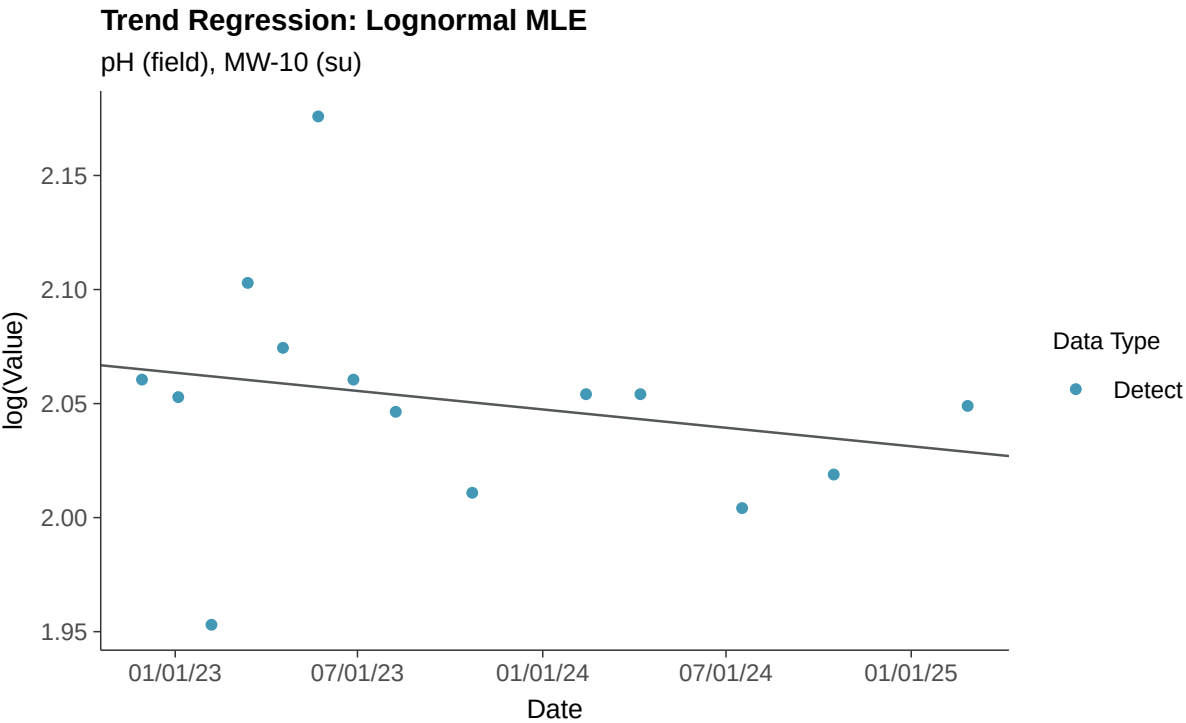
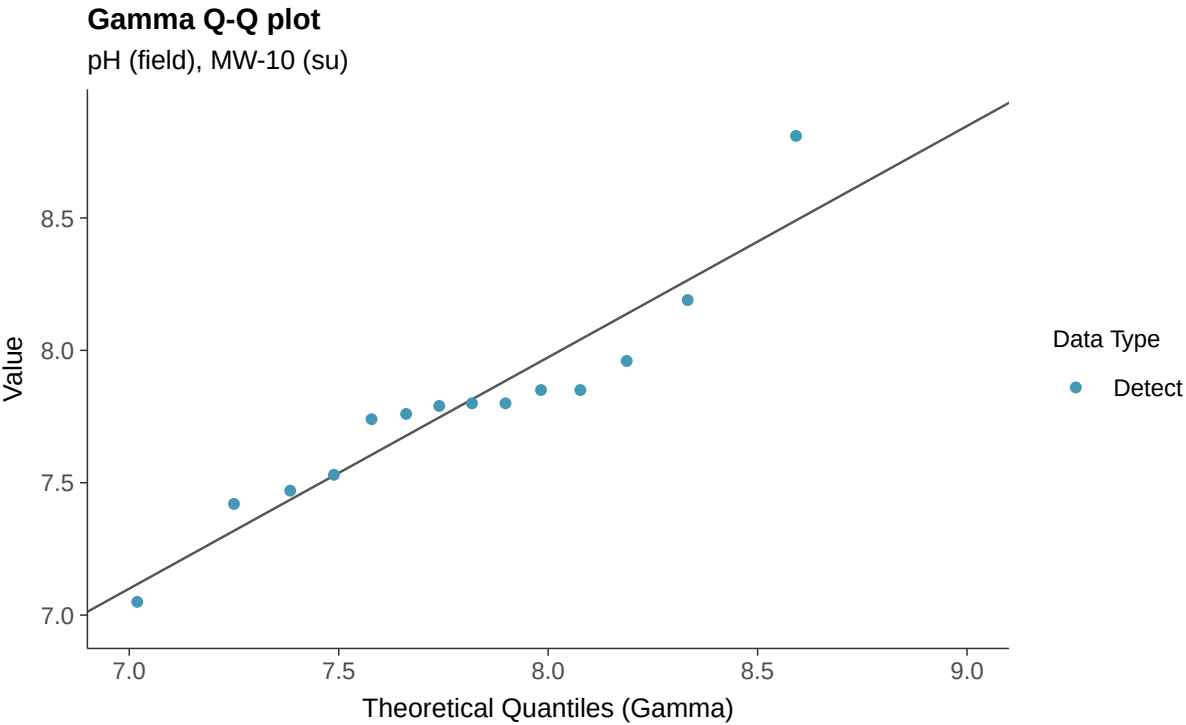
Appendix III: pH (field), MW-10

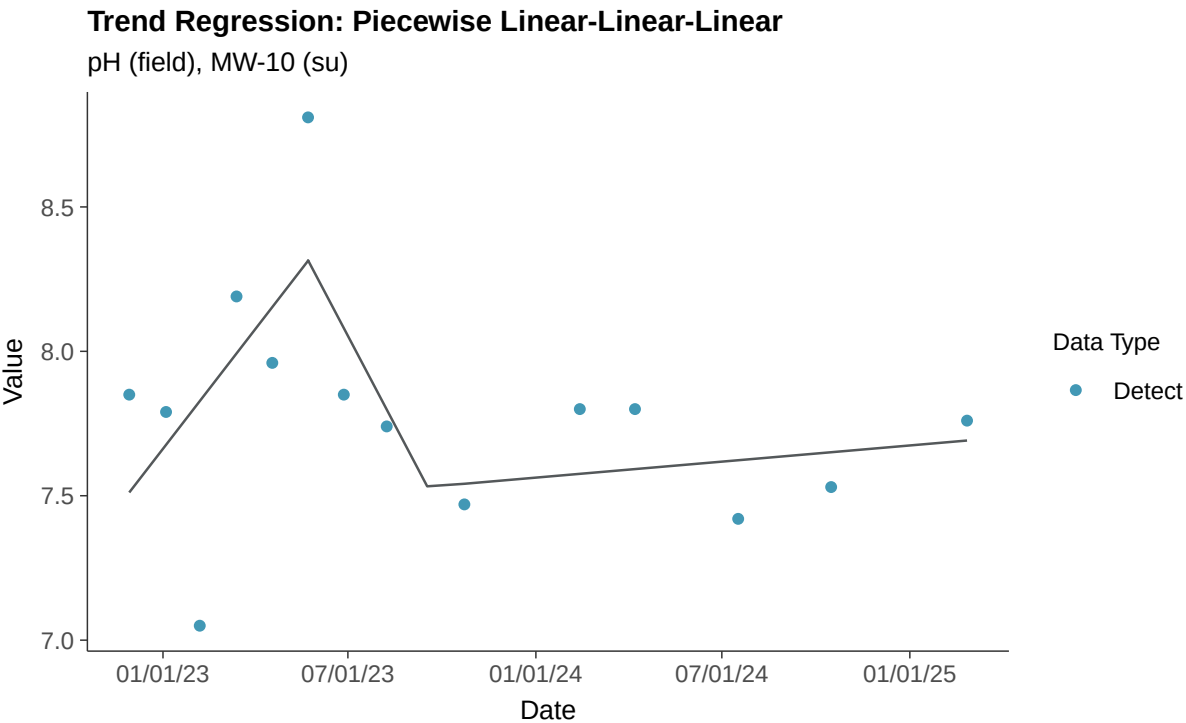
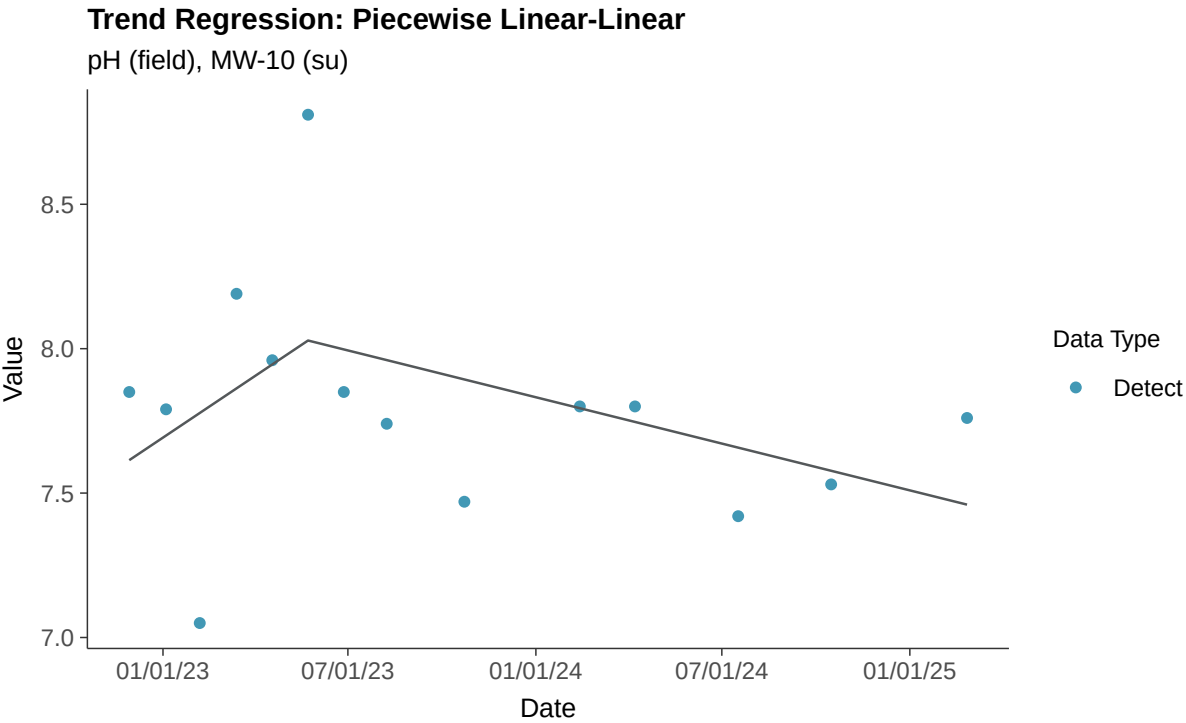
ID: 20_3_3_120







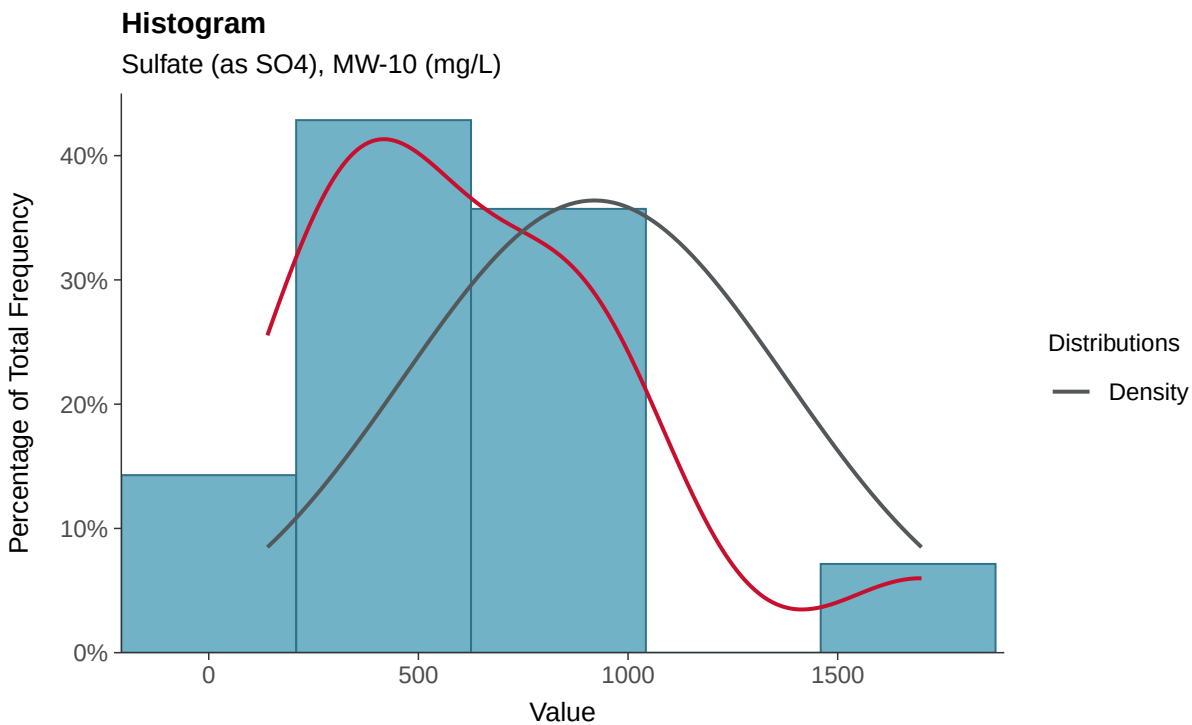
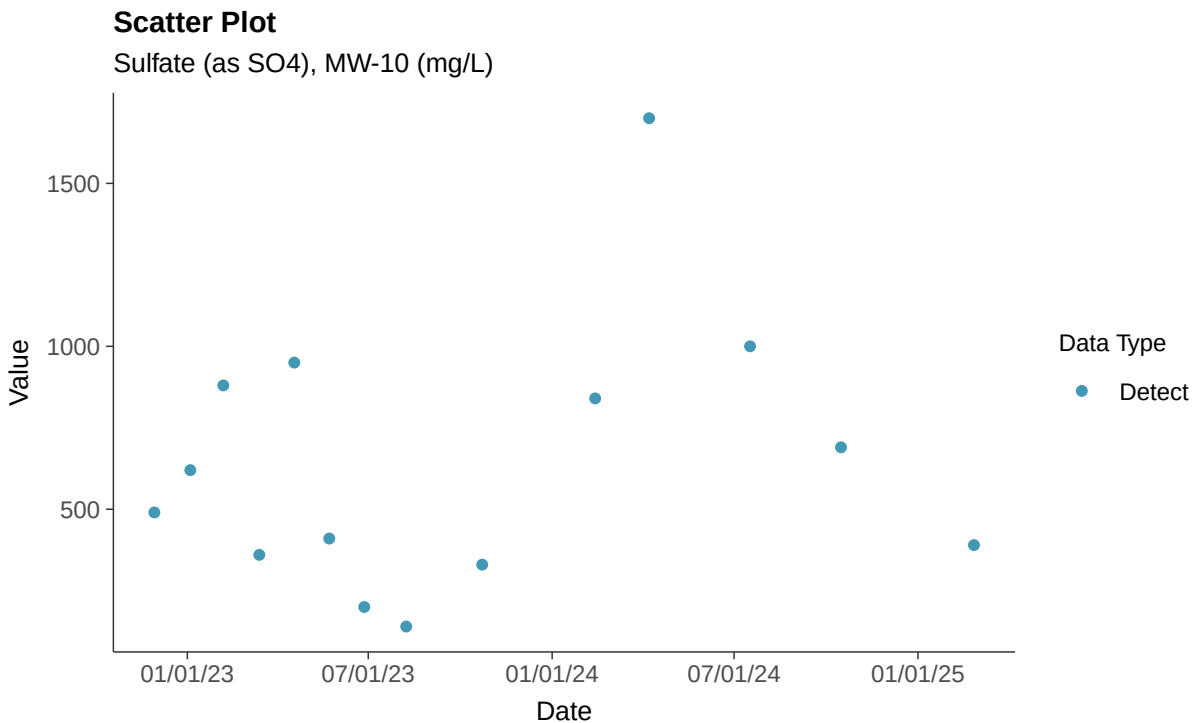


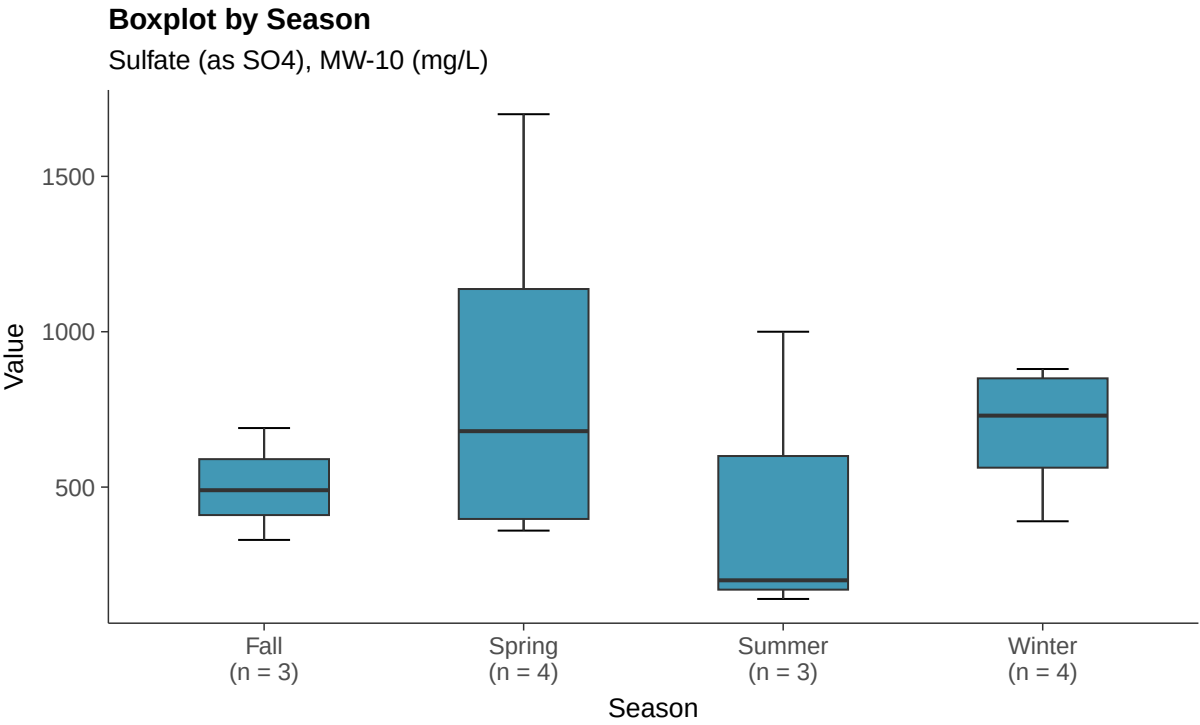
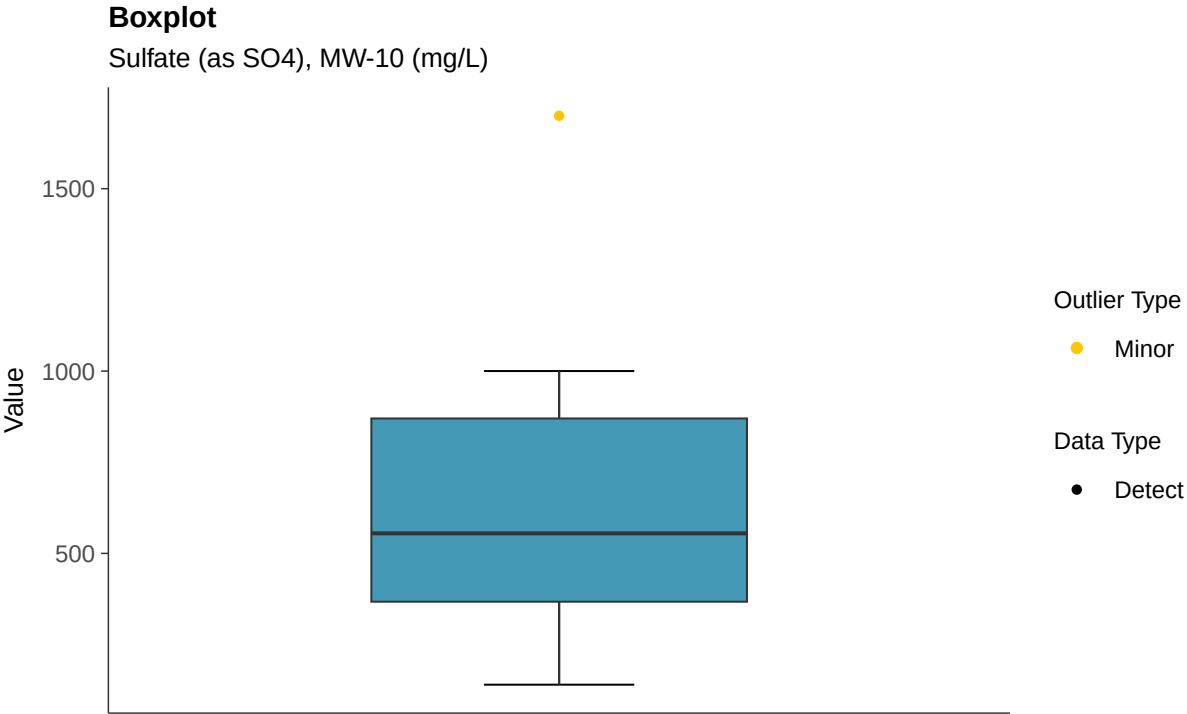


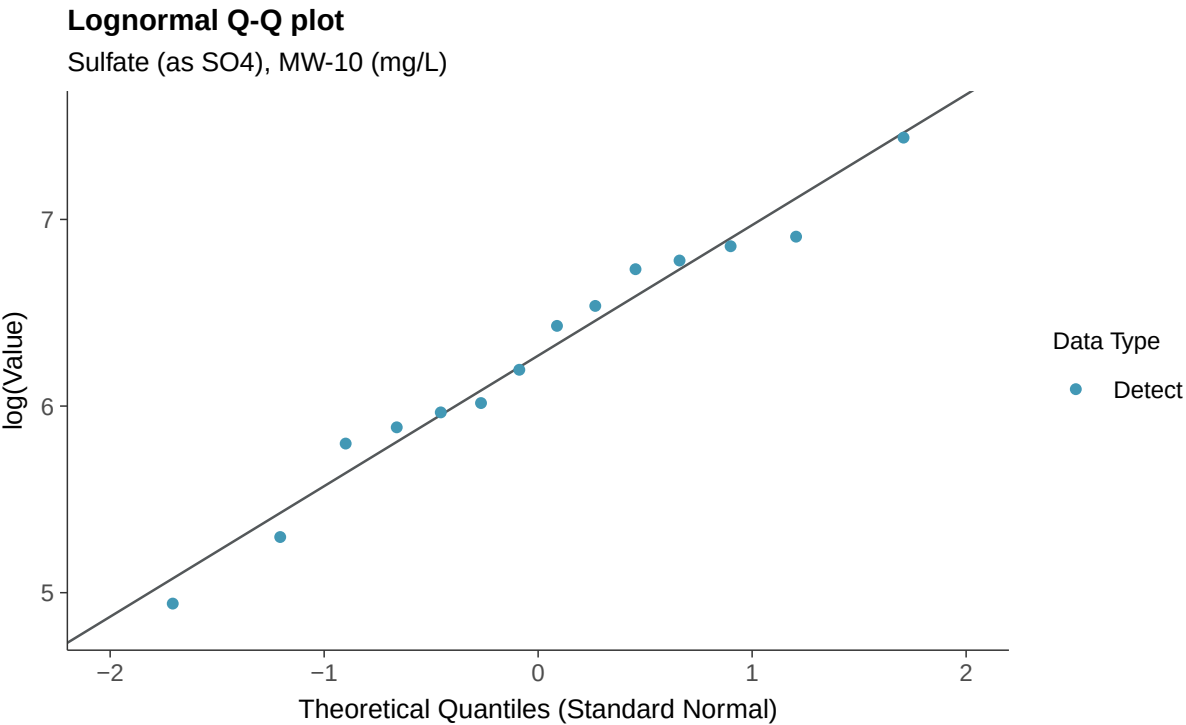
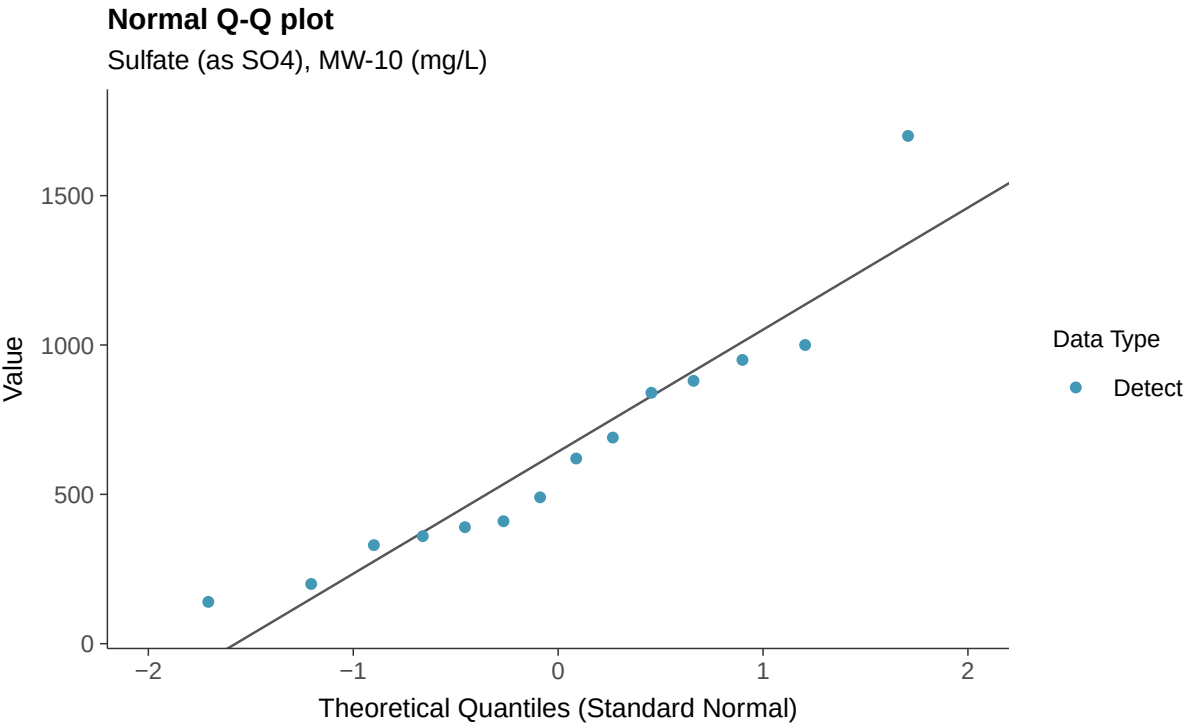


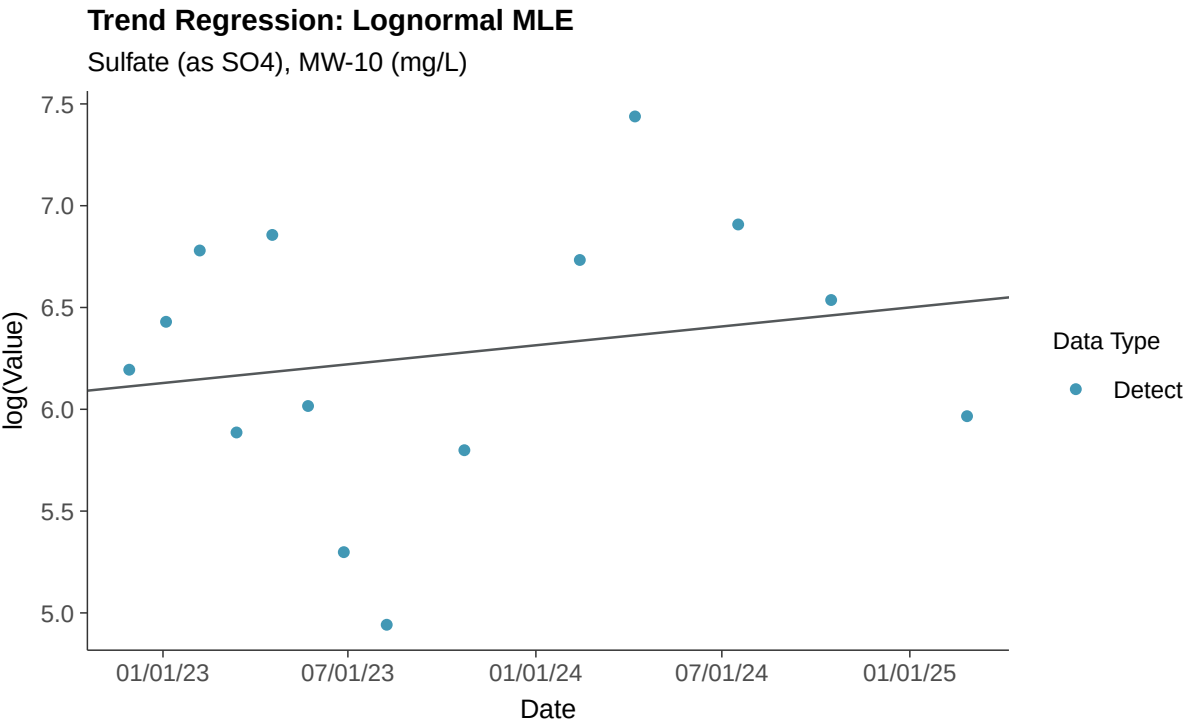
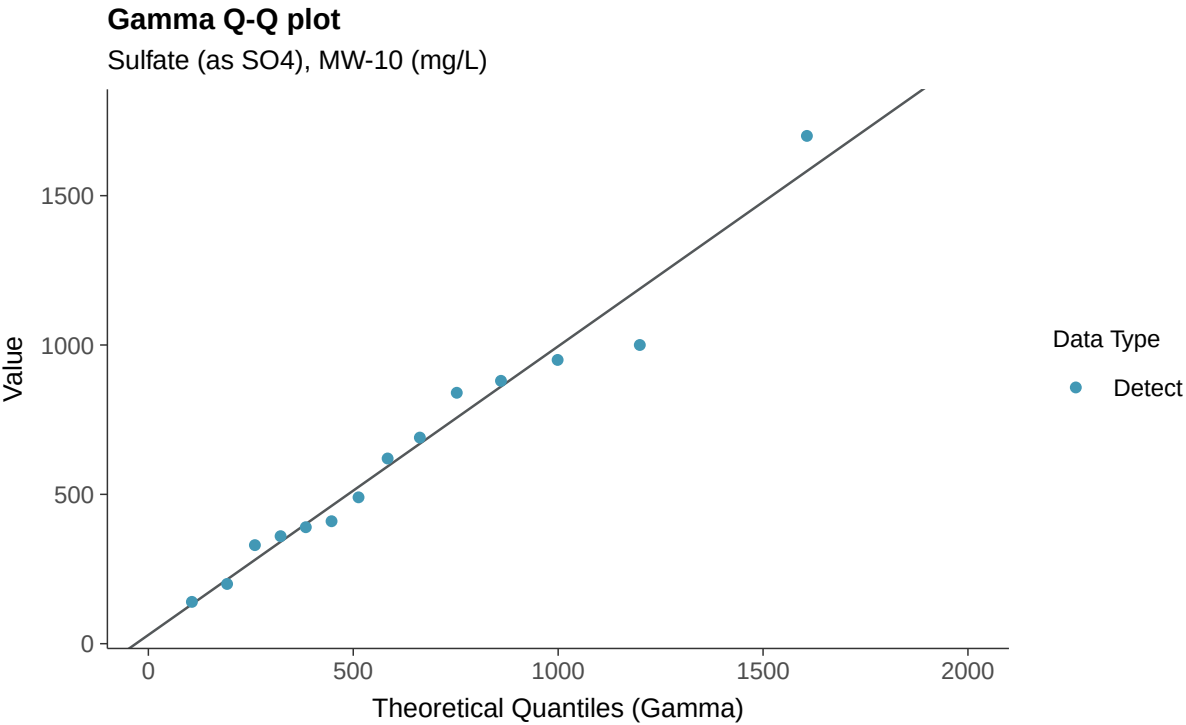
Appendix III: Sulfate (as SO₄), MW-10

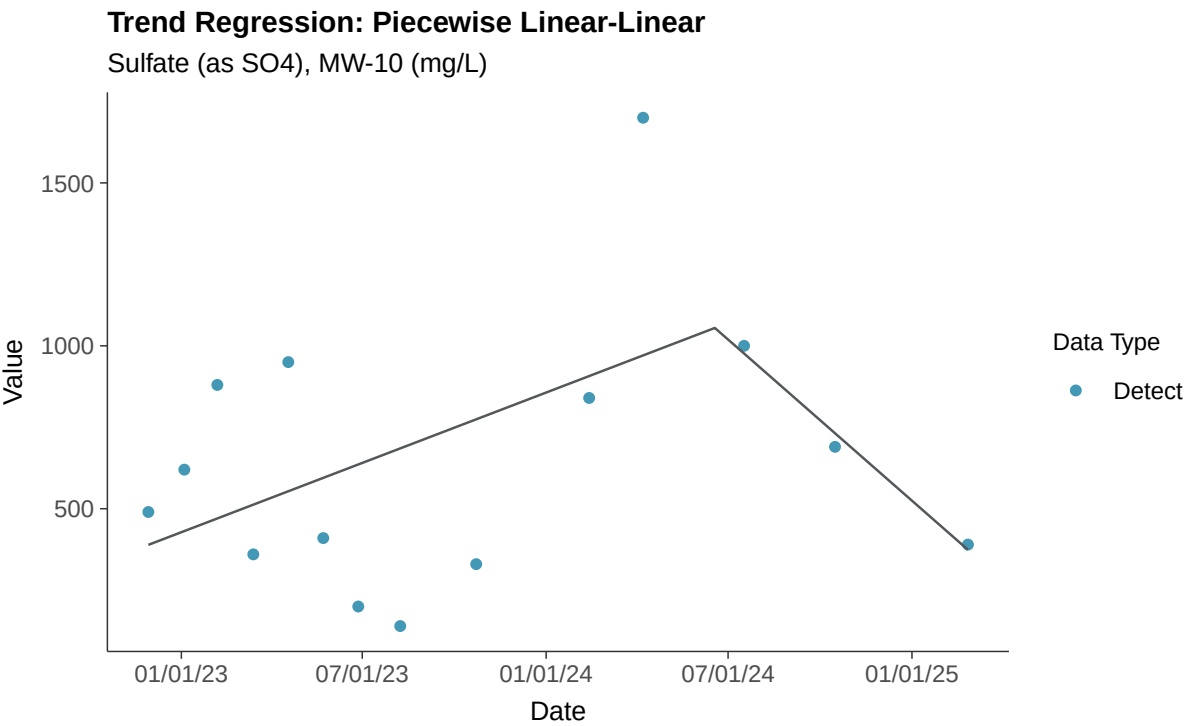
ID: 20_3_3_124







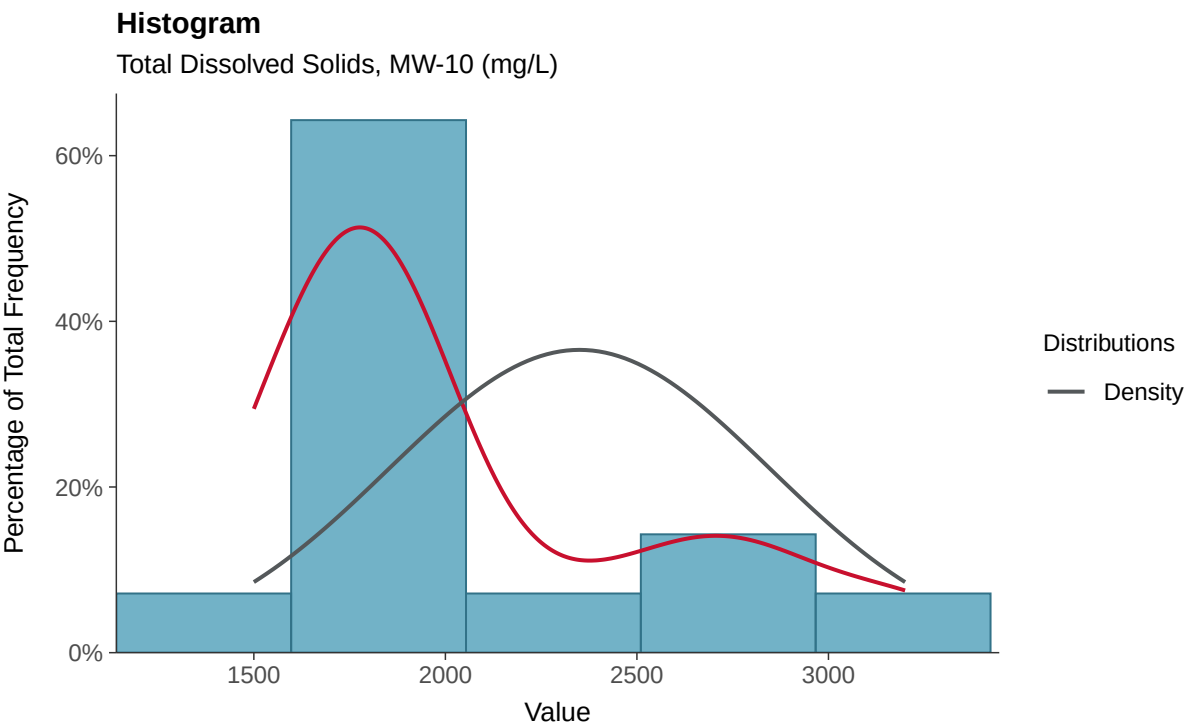
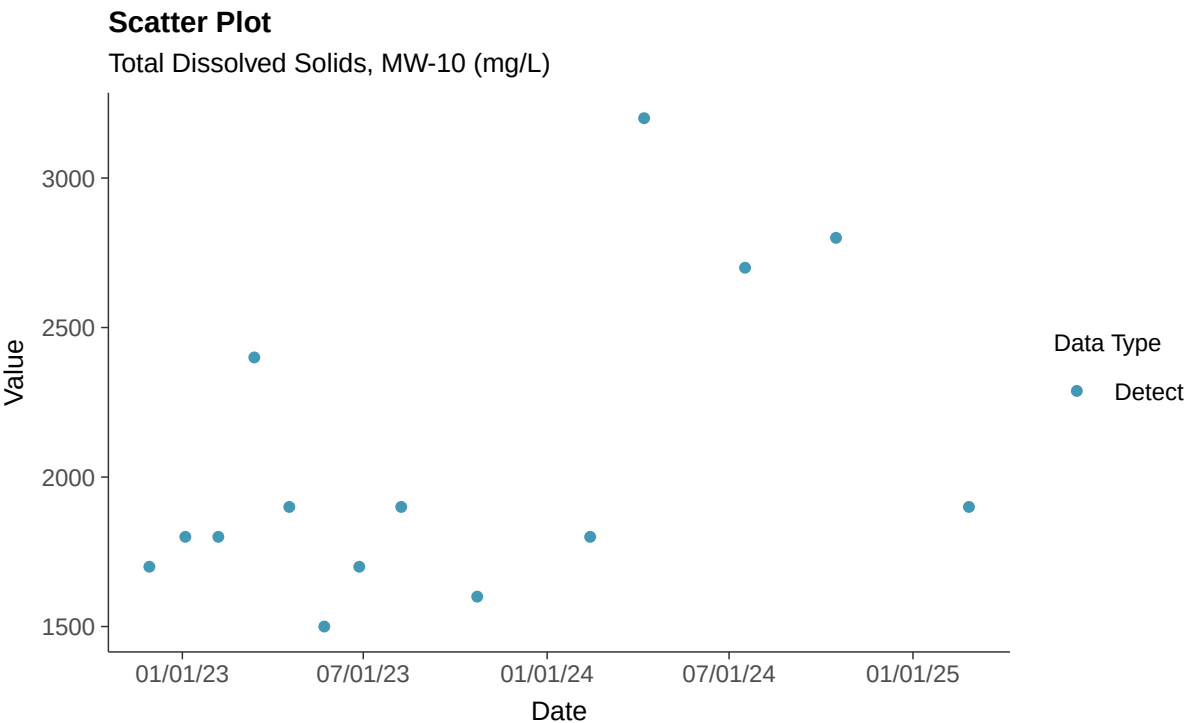


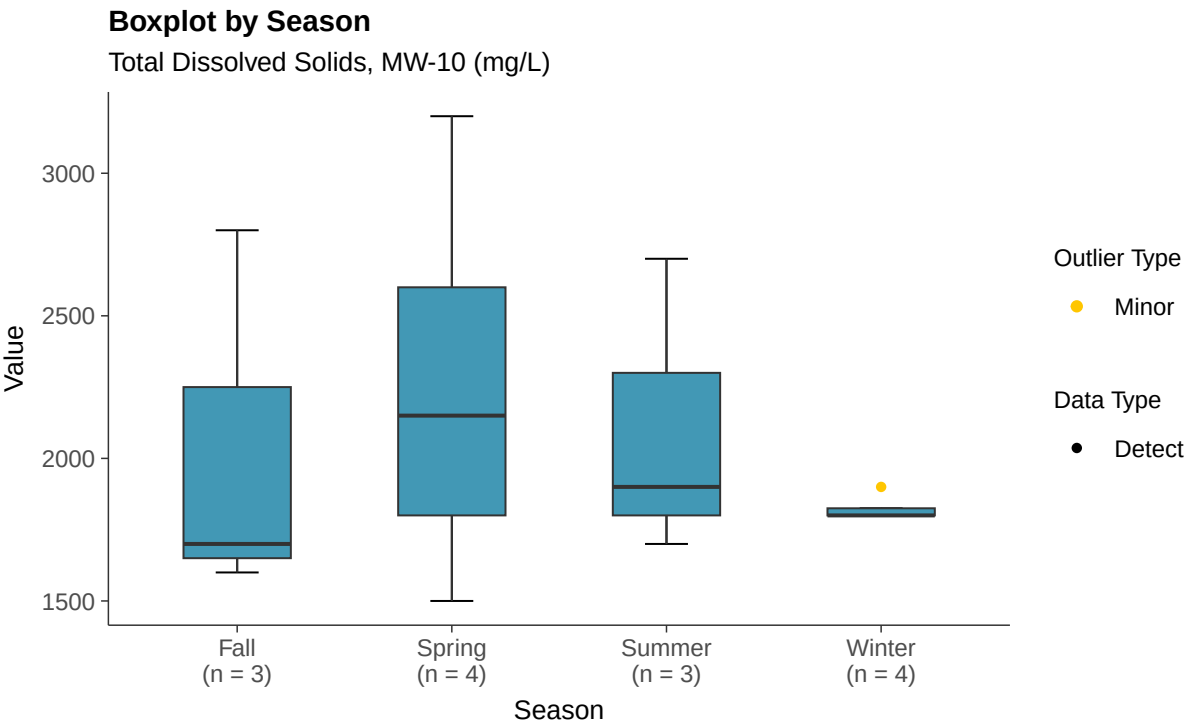
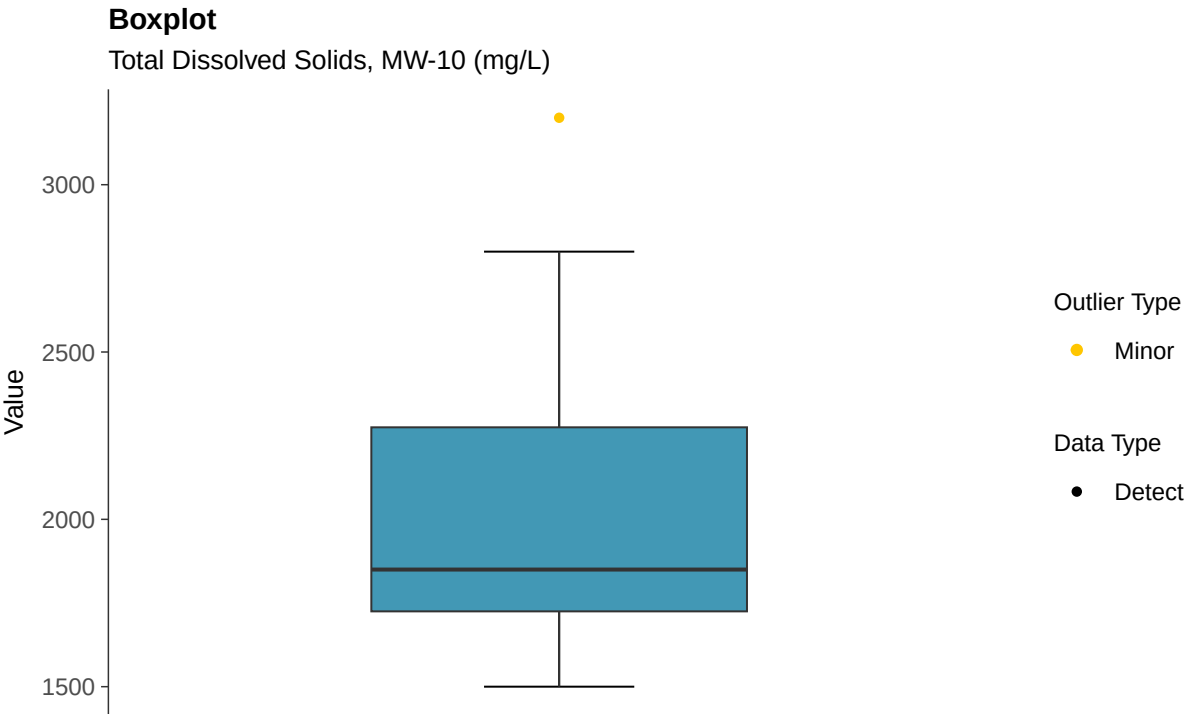


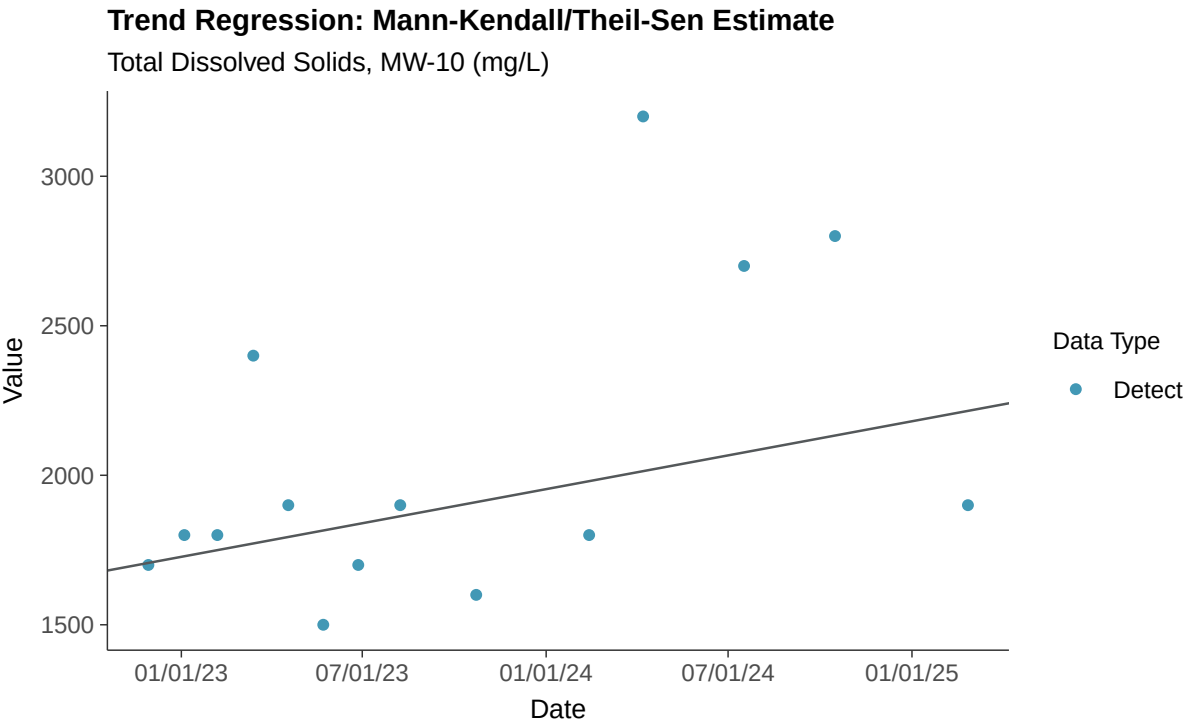
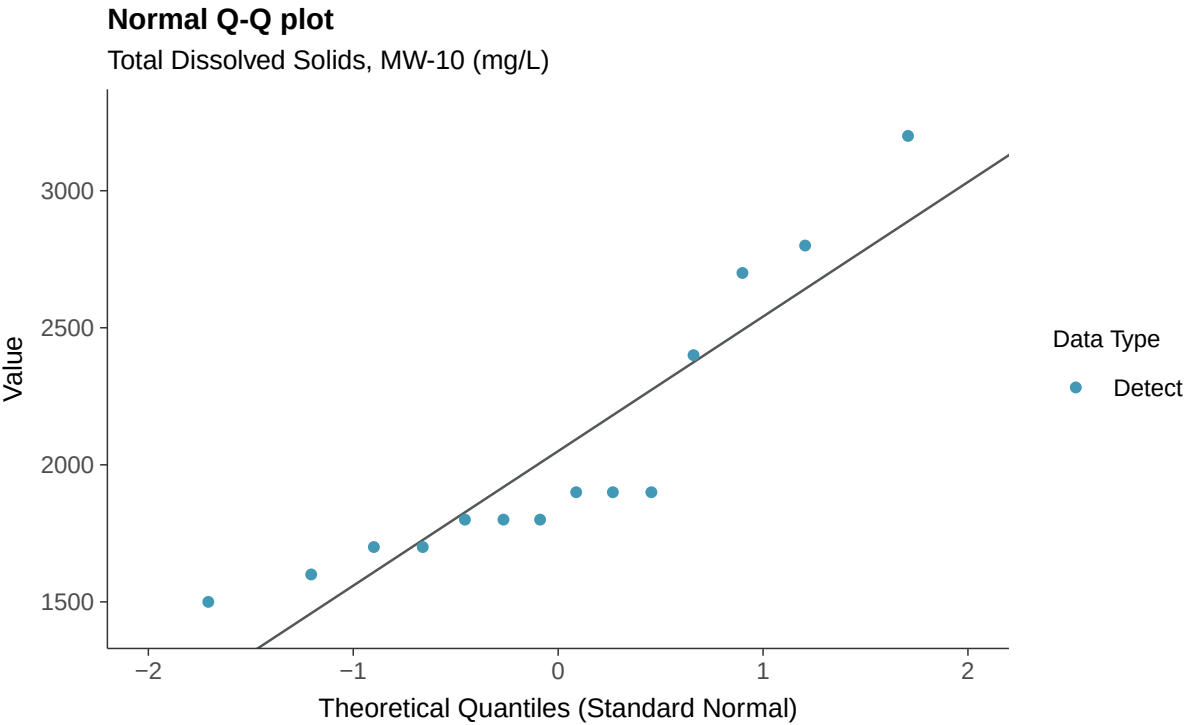


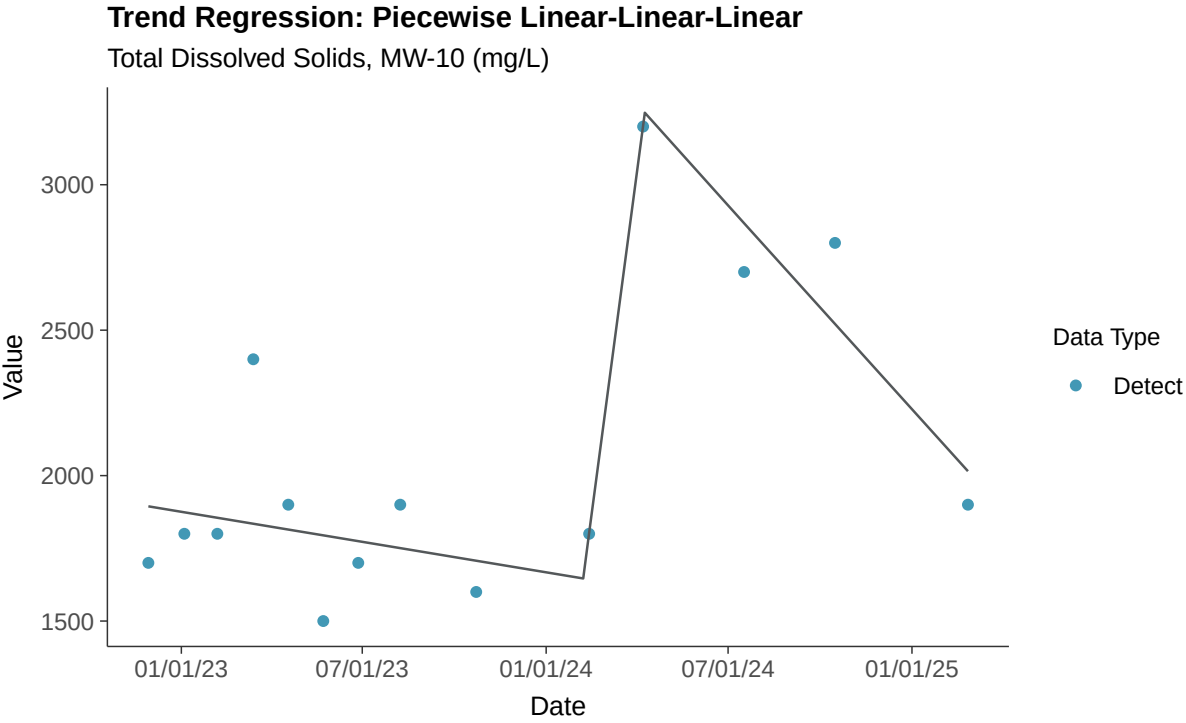
Appendix III: Total Dissolved Solids, MW-10

ID: 20_3_3_126





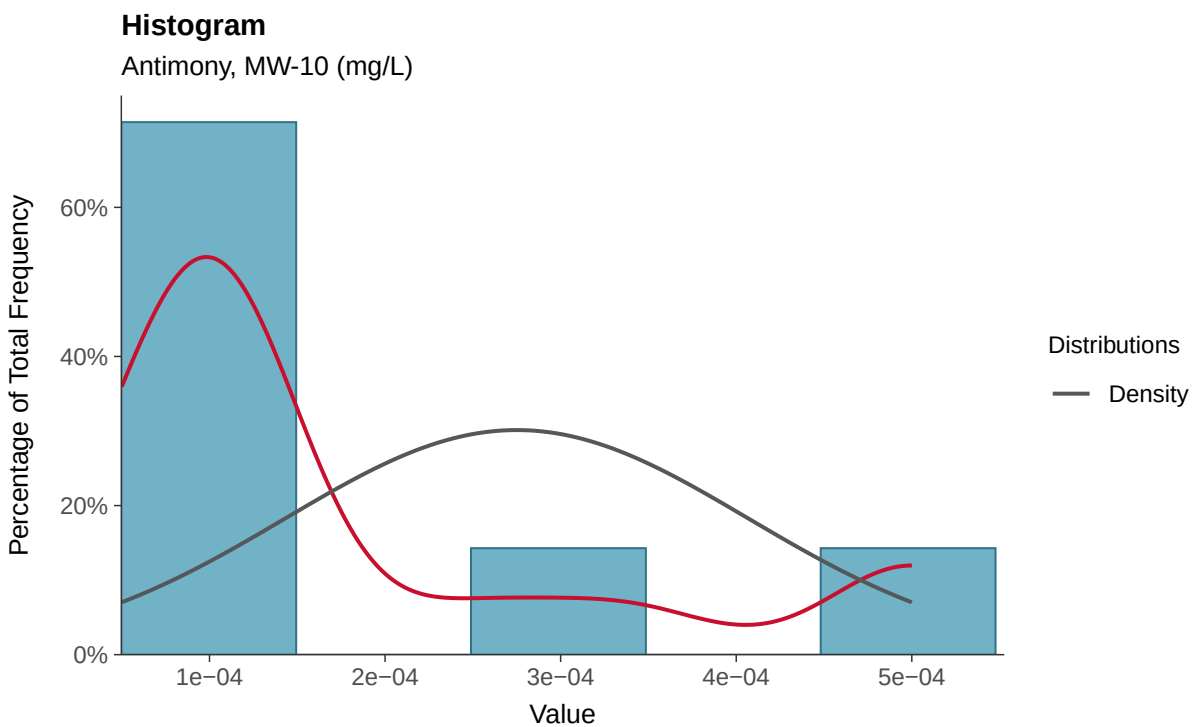
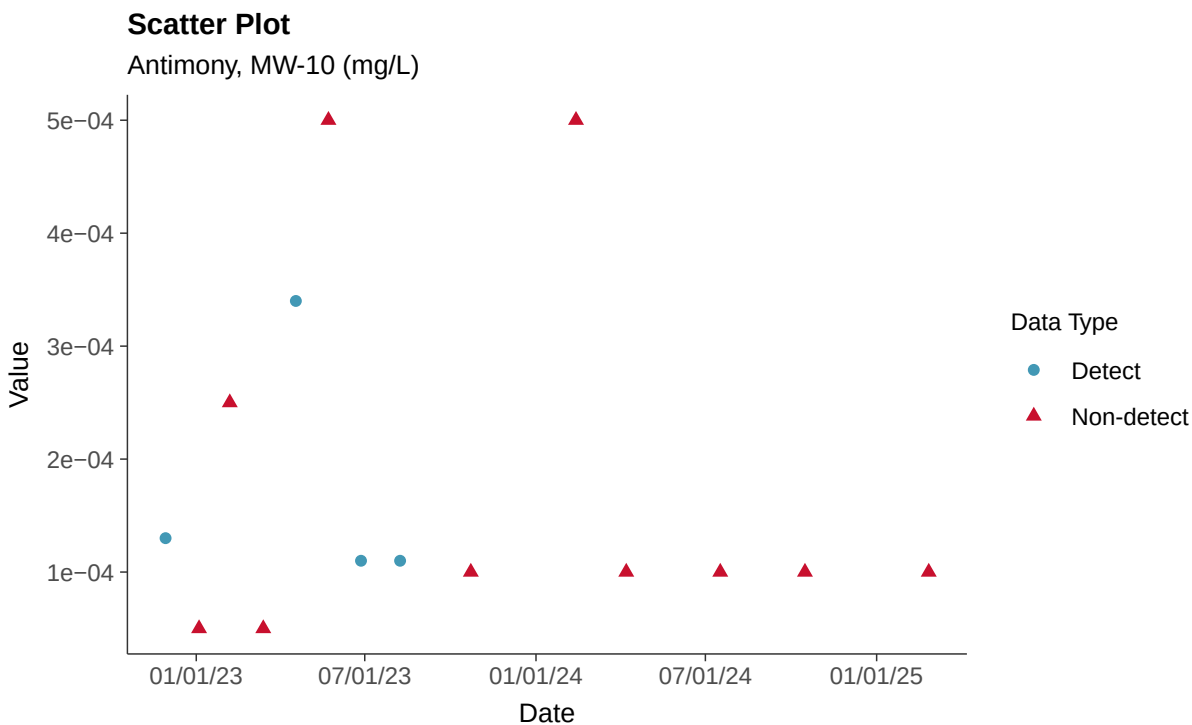


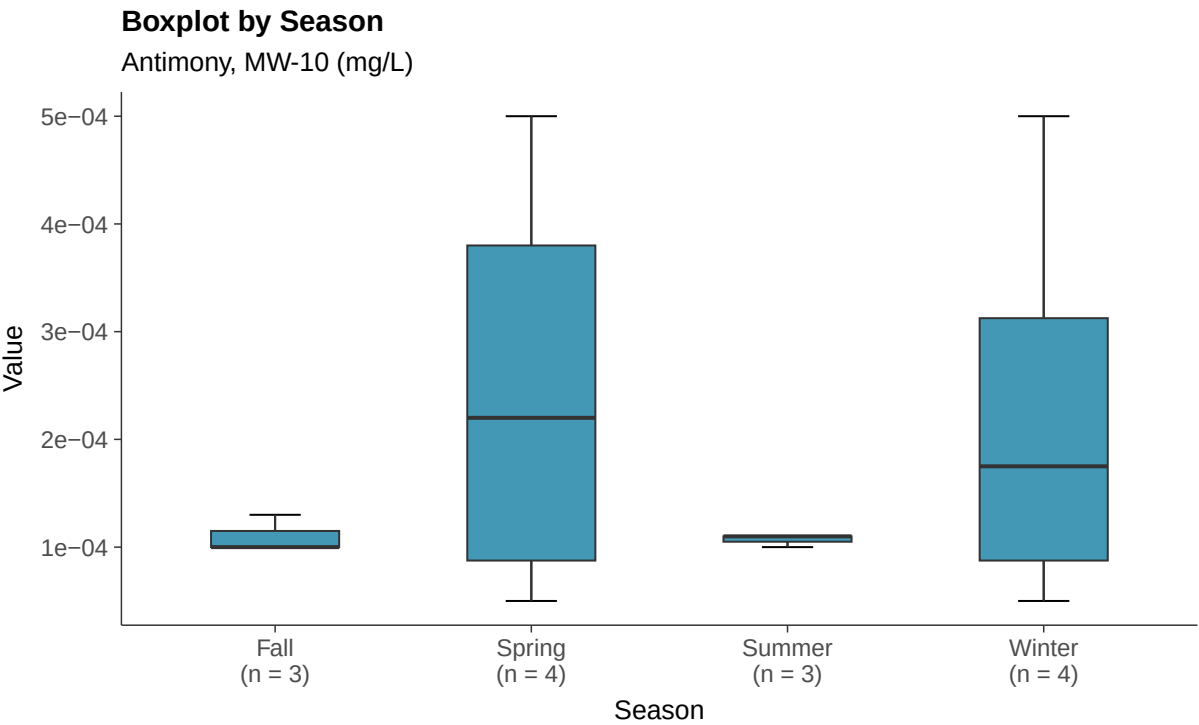
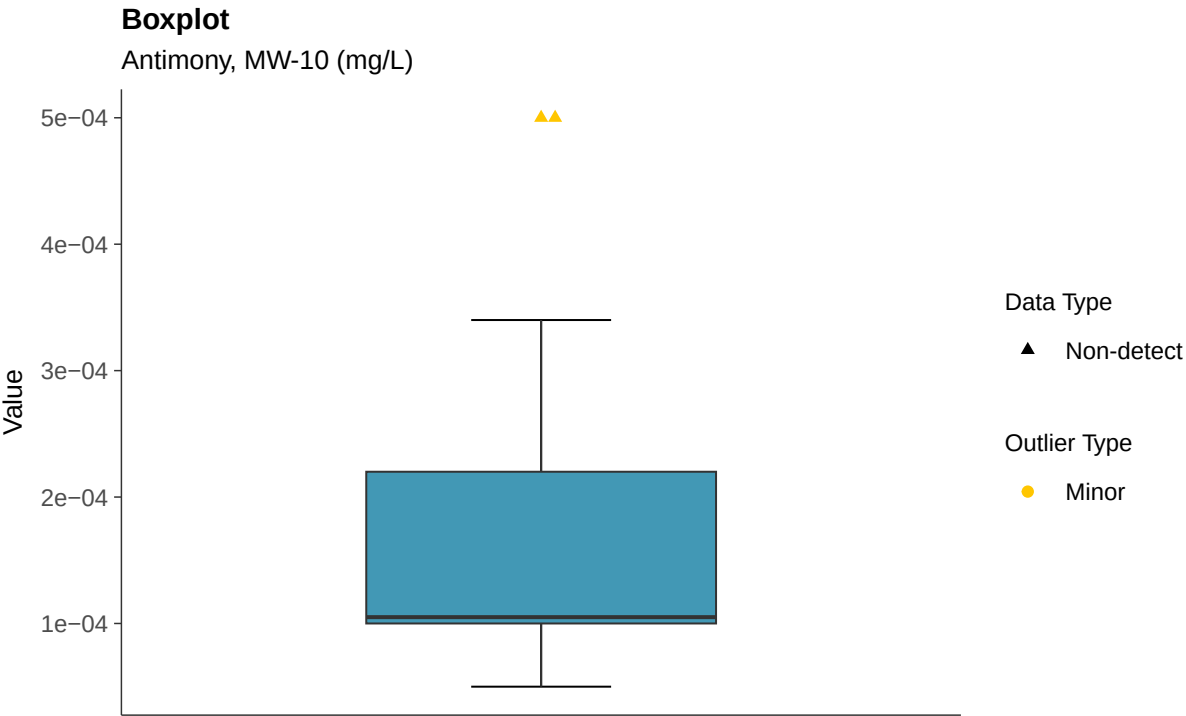




Appendix IV: Antimony, MW-10

ID: 20_3_4_101

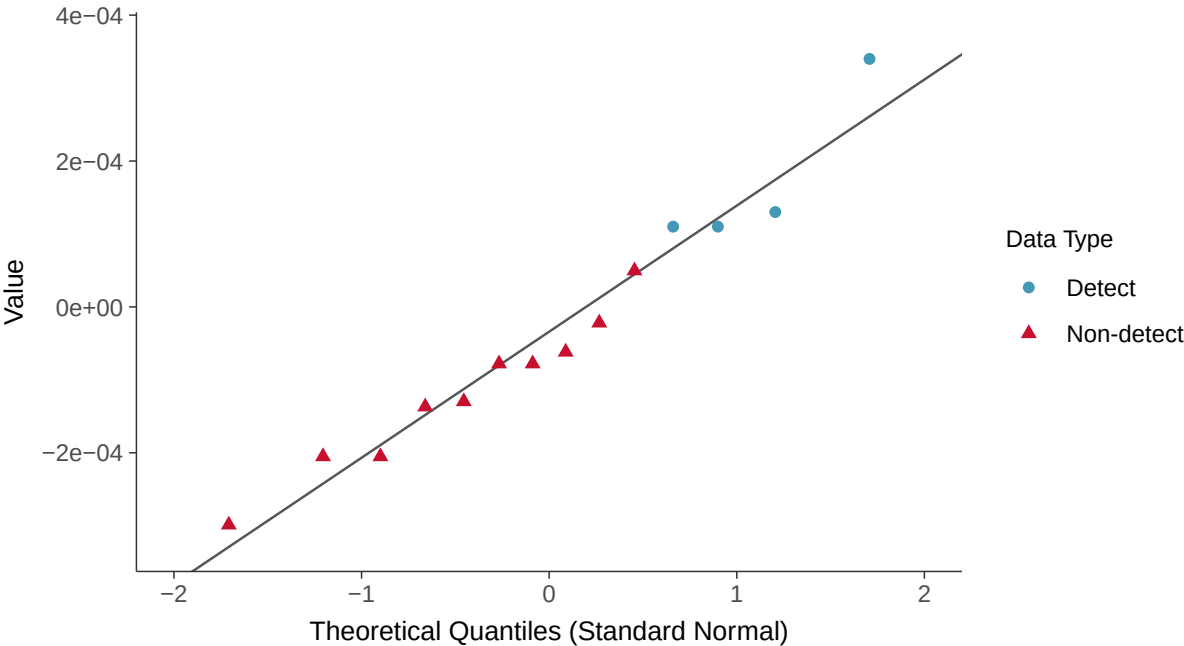






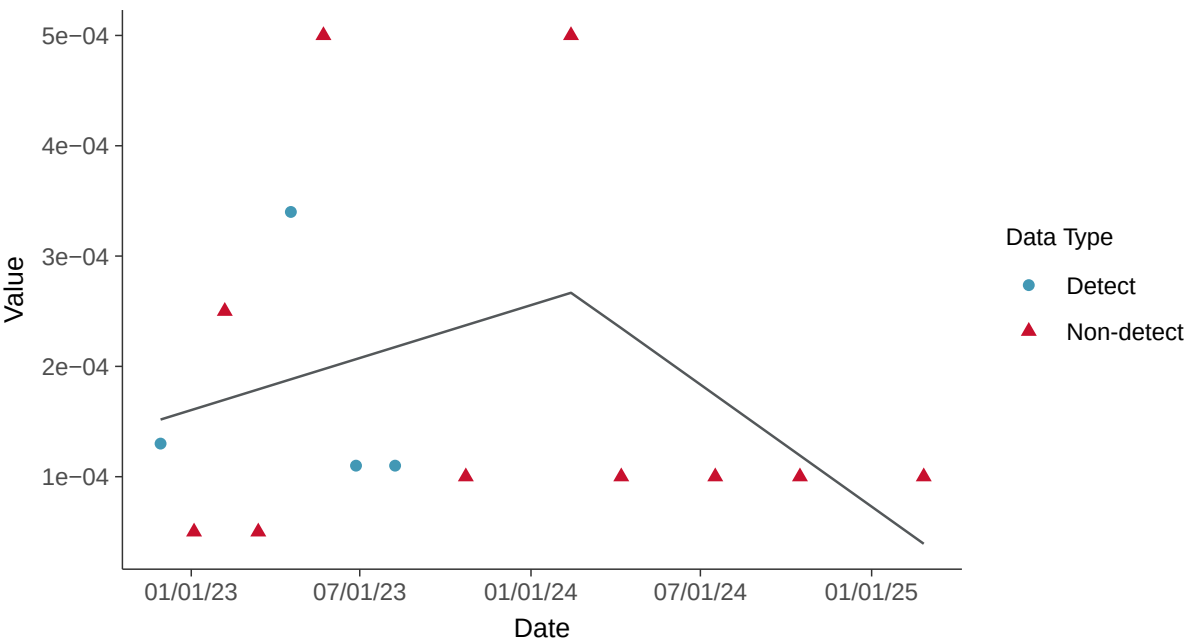
Normal Q-Q plot using ROS Imputed Estimates

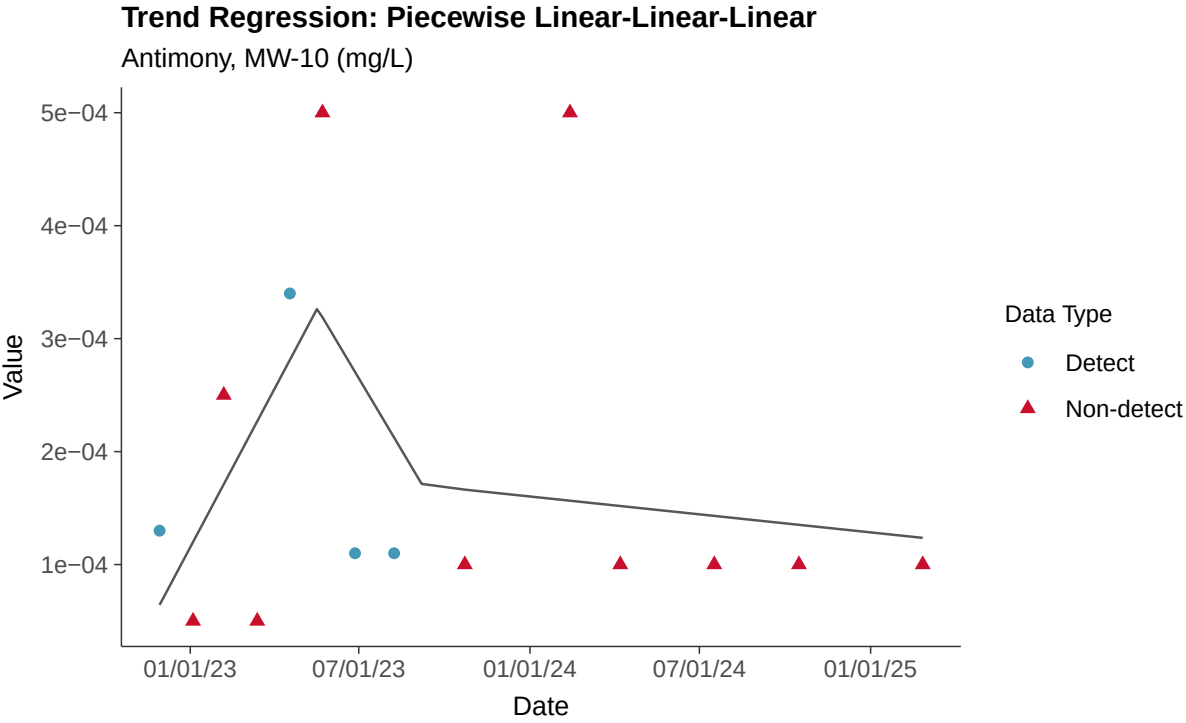
Antimony, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-10 (mg/L)

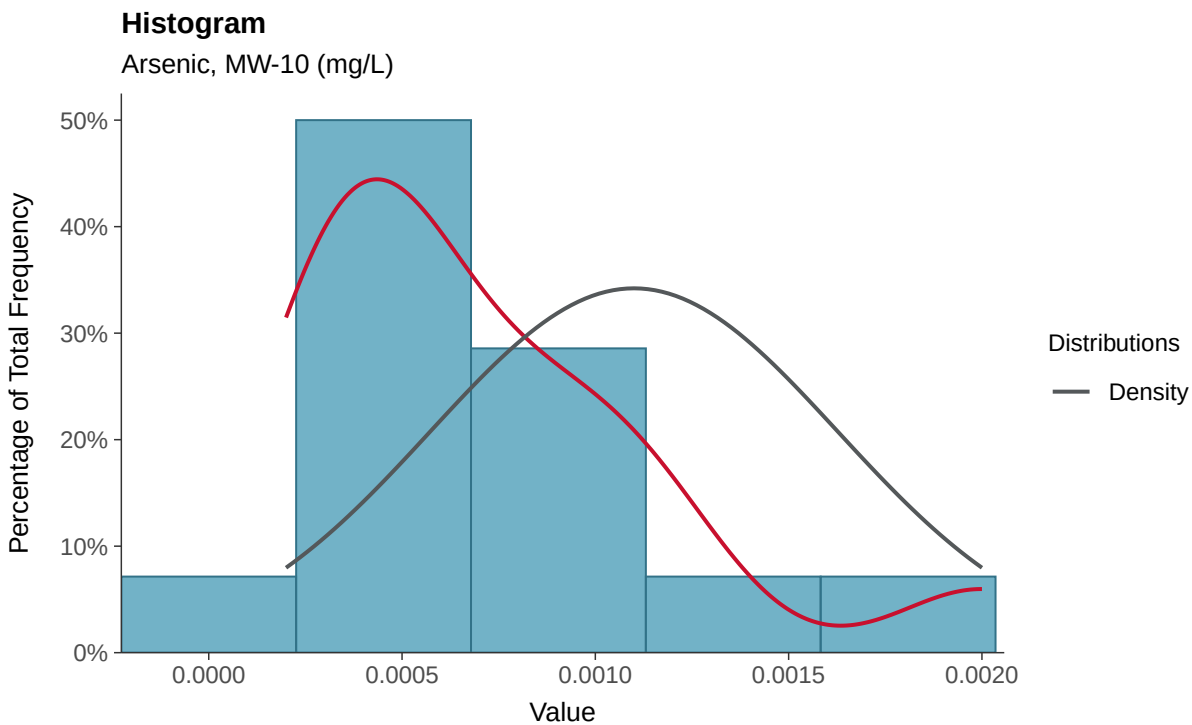
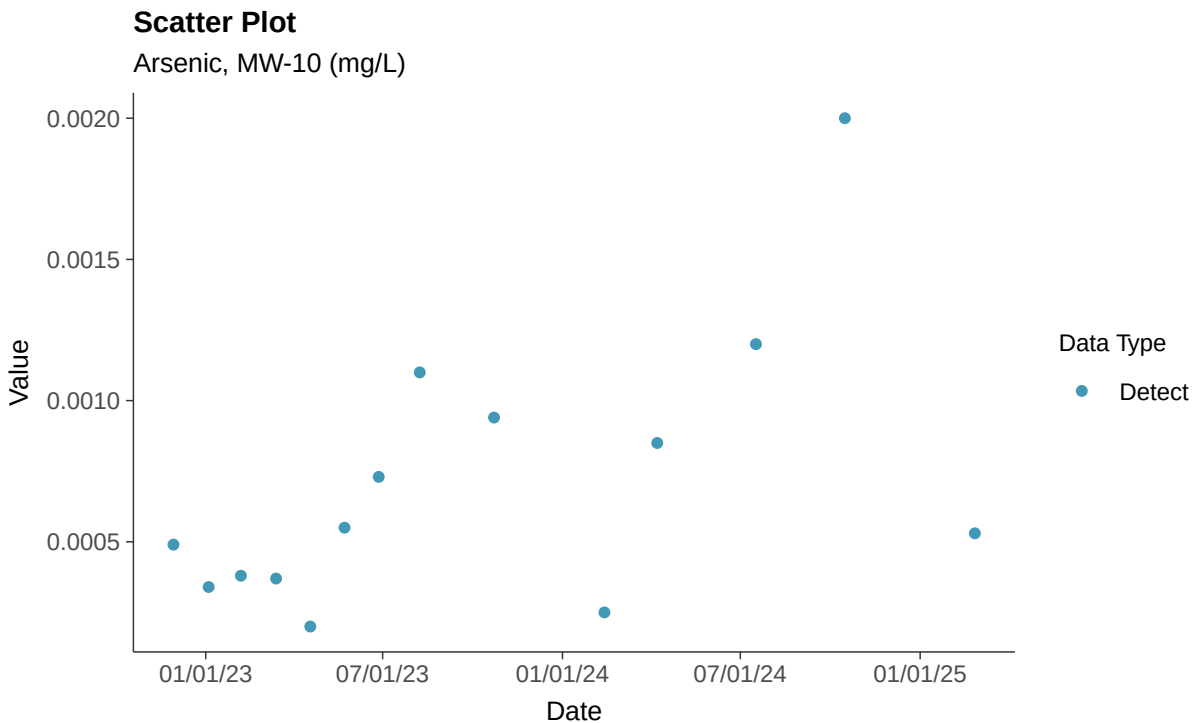


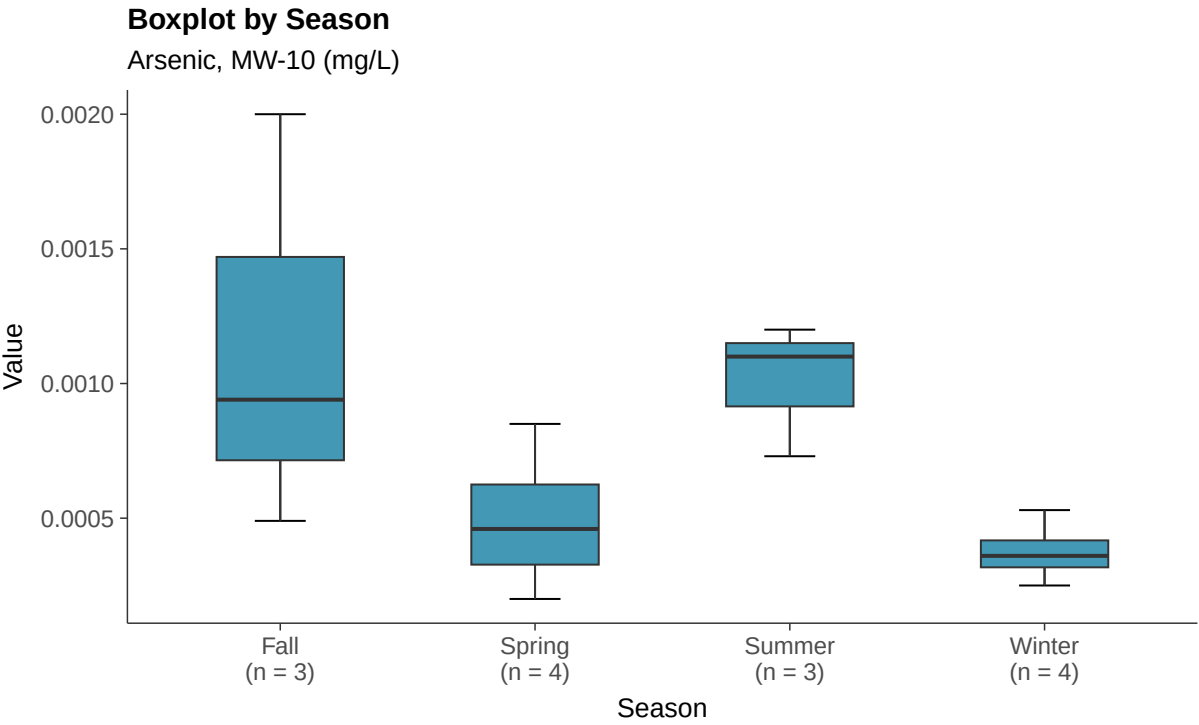
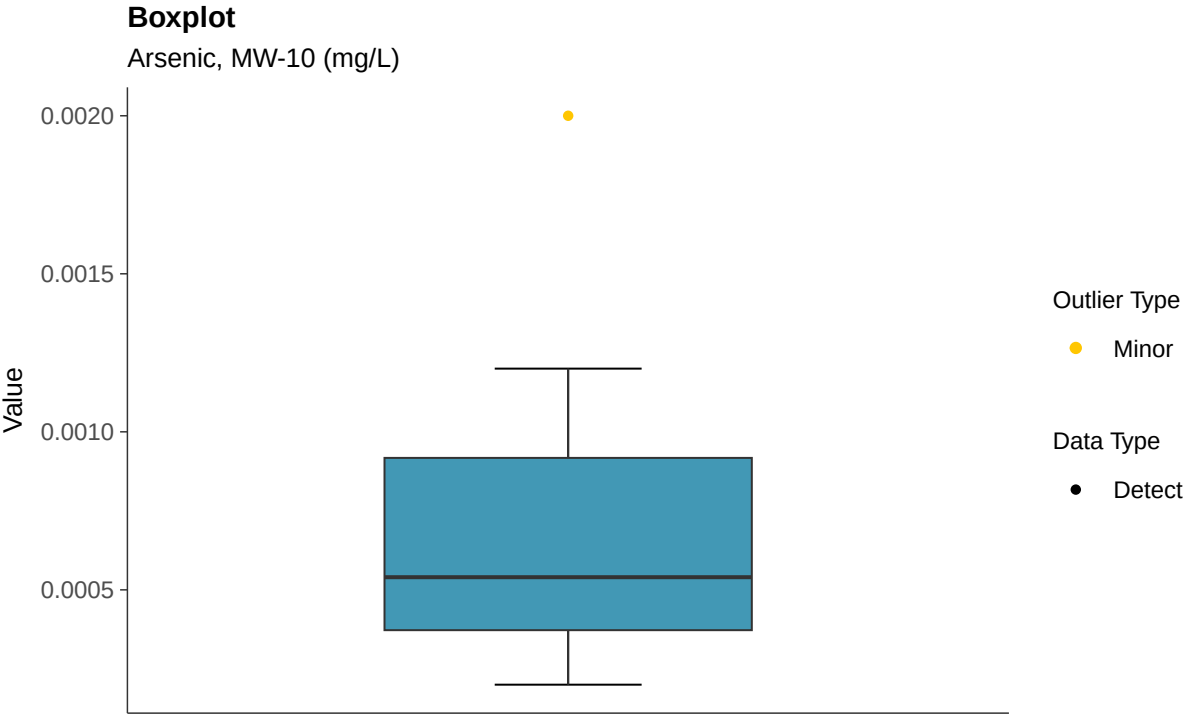


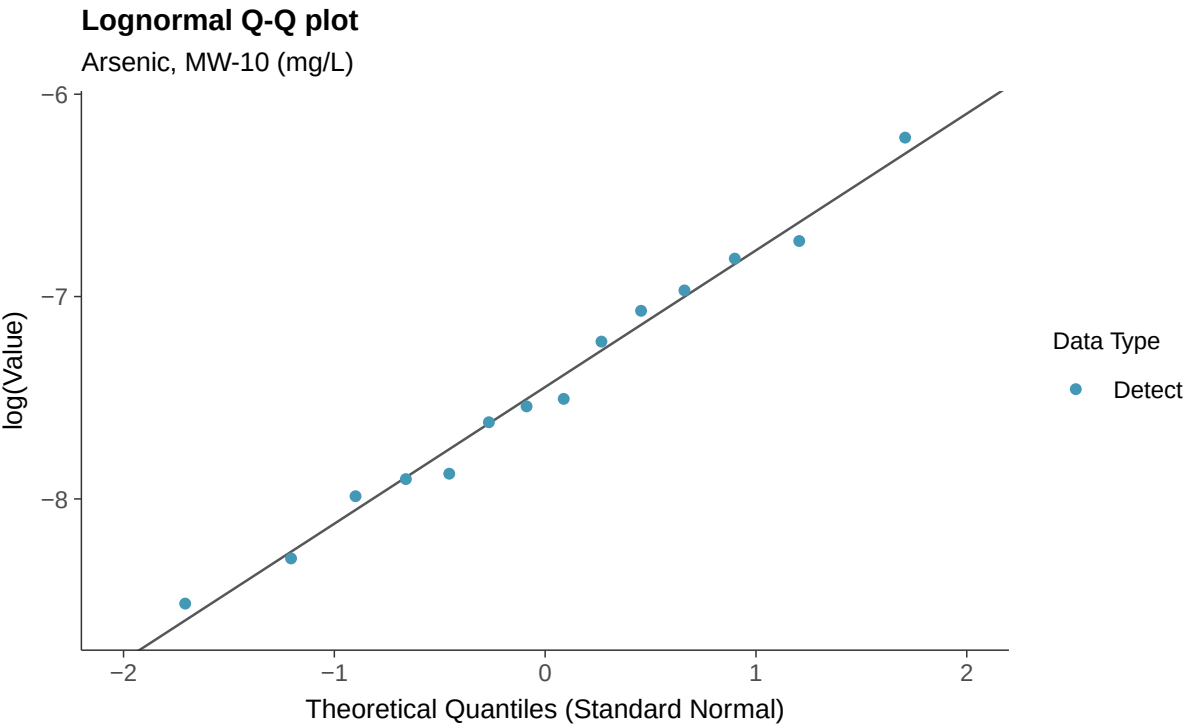
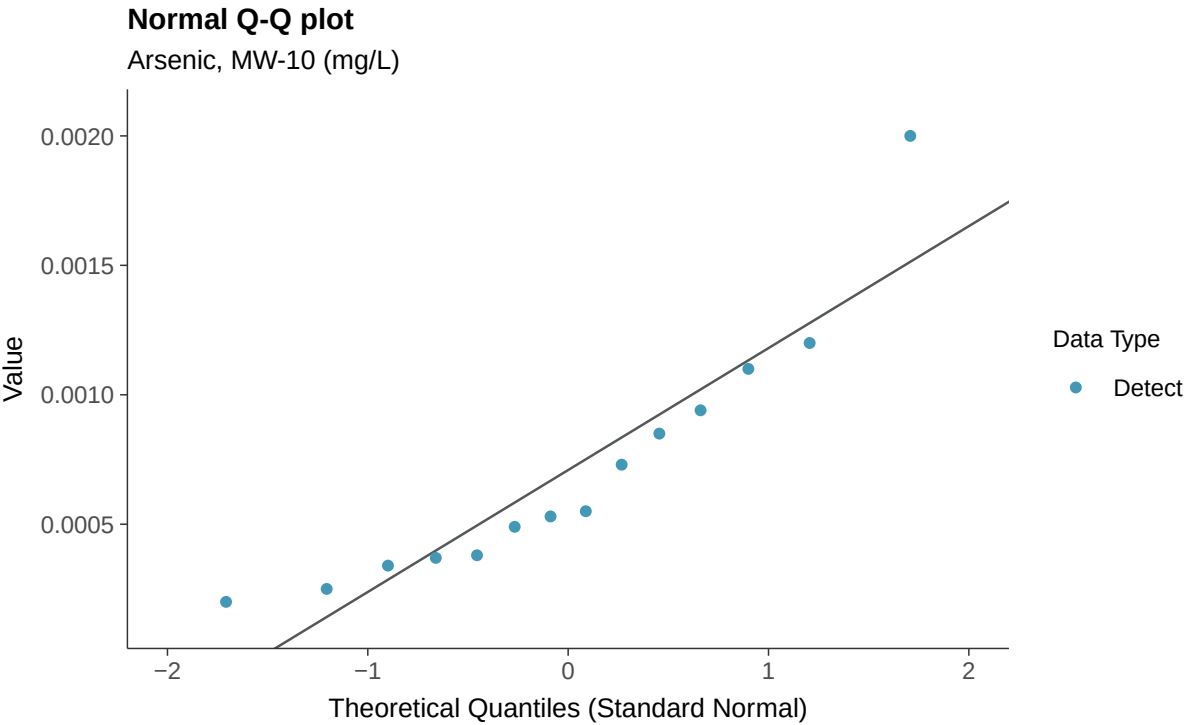


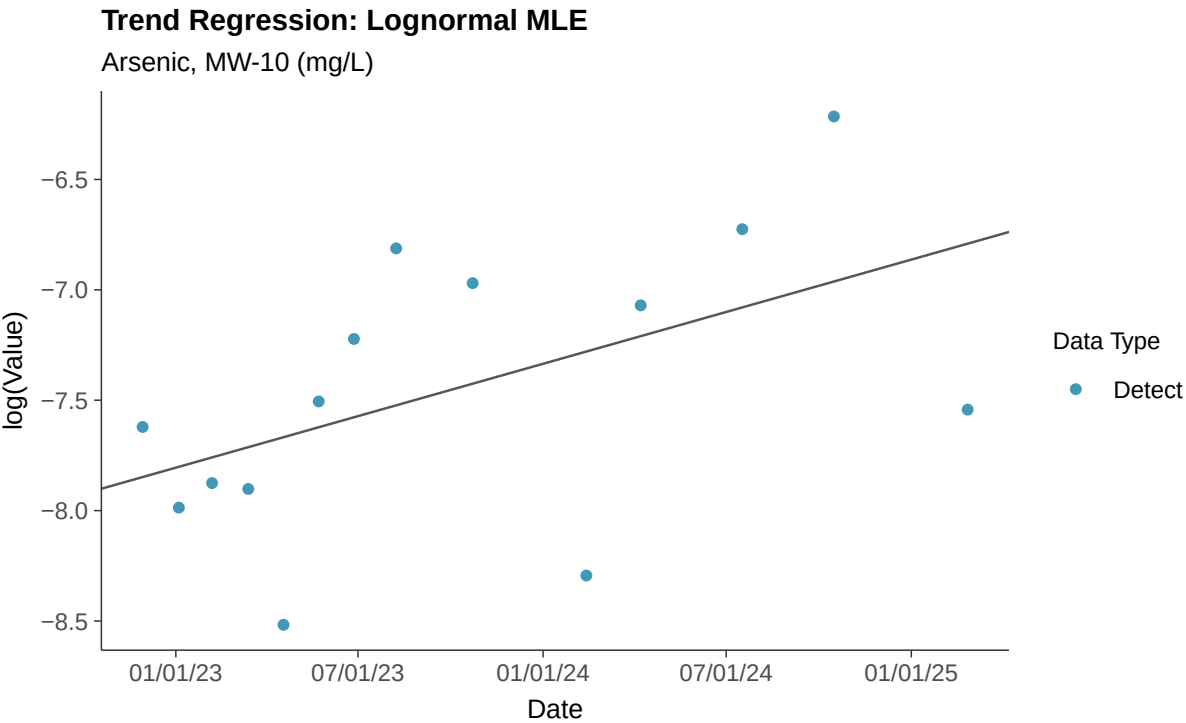
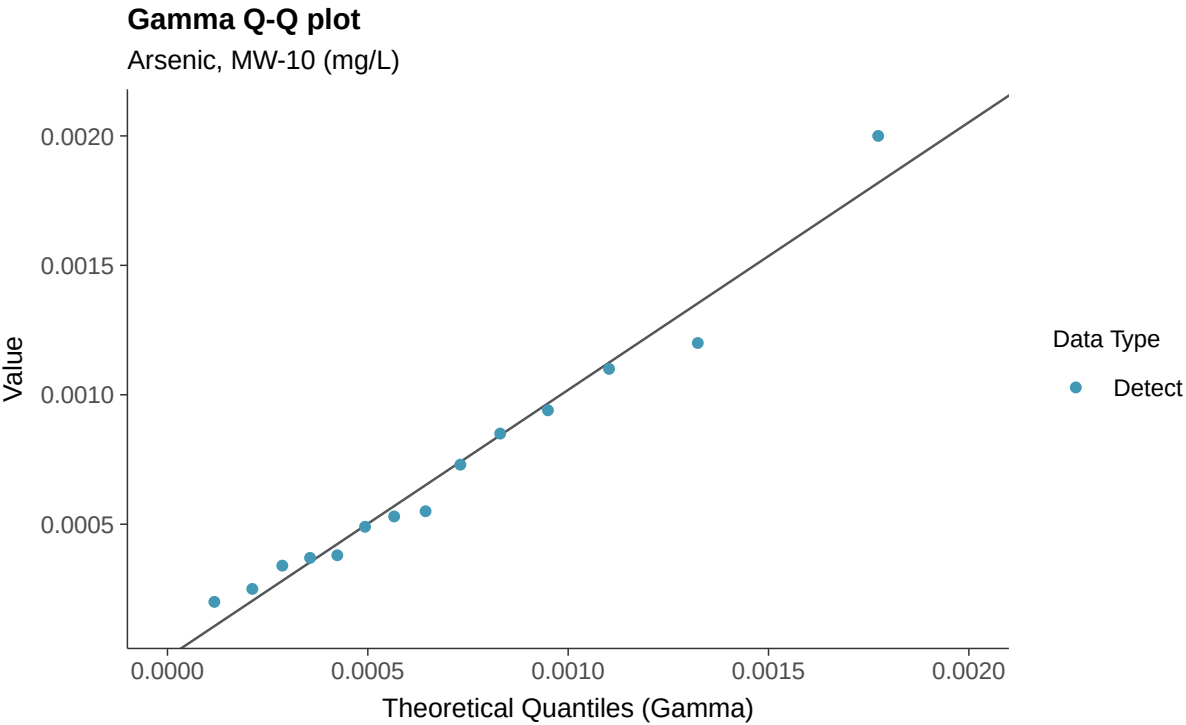
Appendix IV: Arsenic, MW-10

ID: 20_3_4_102





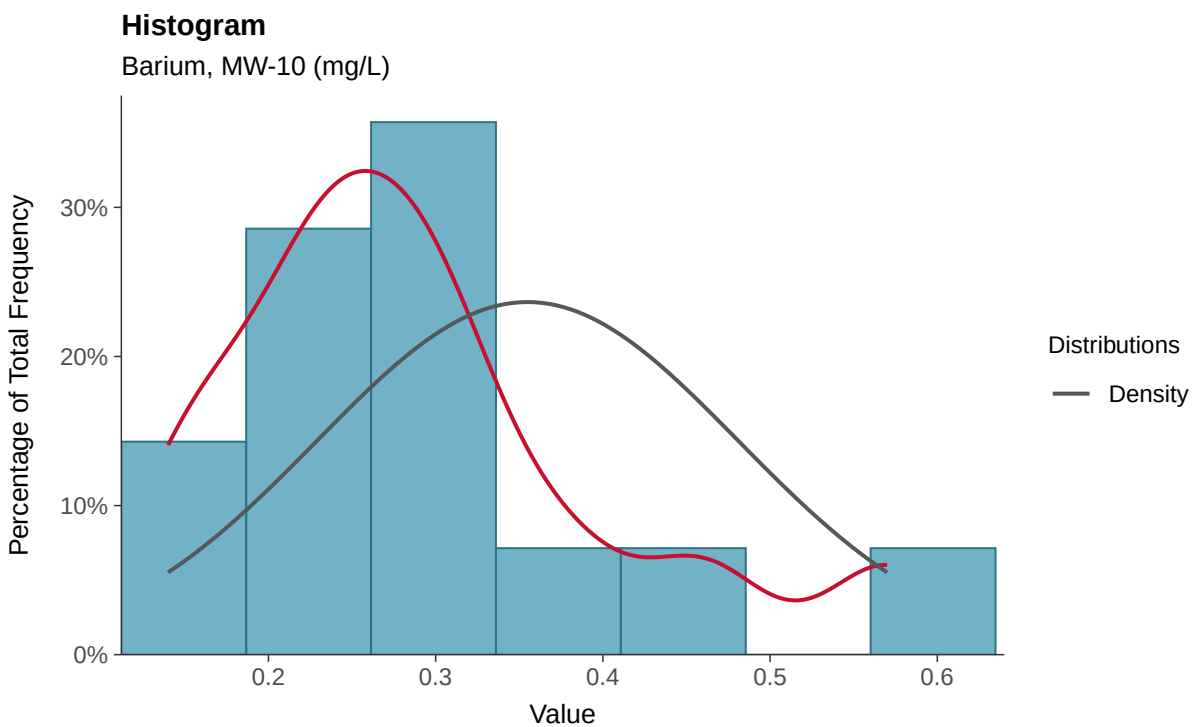
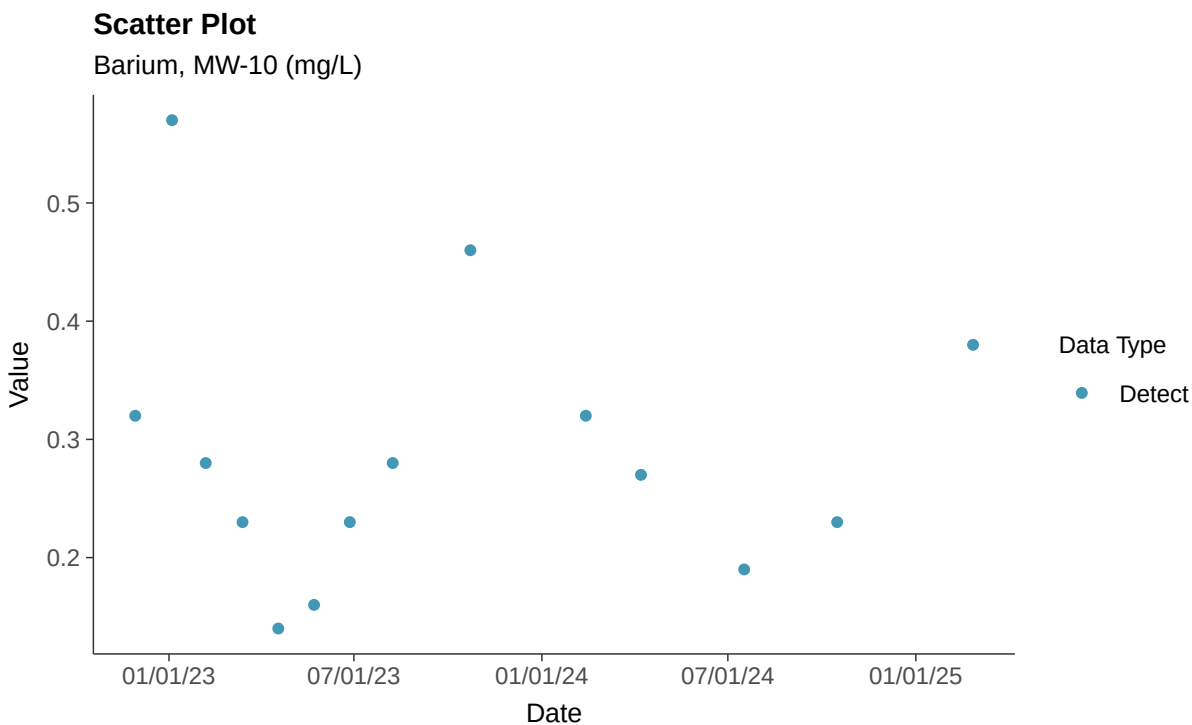


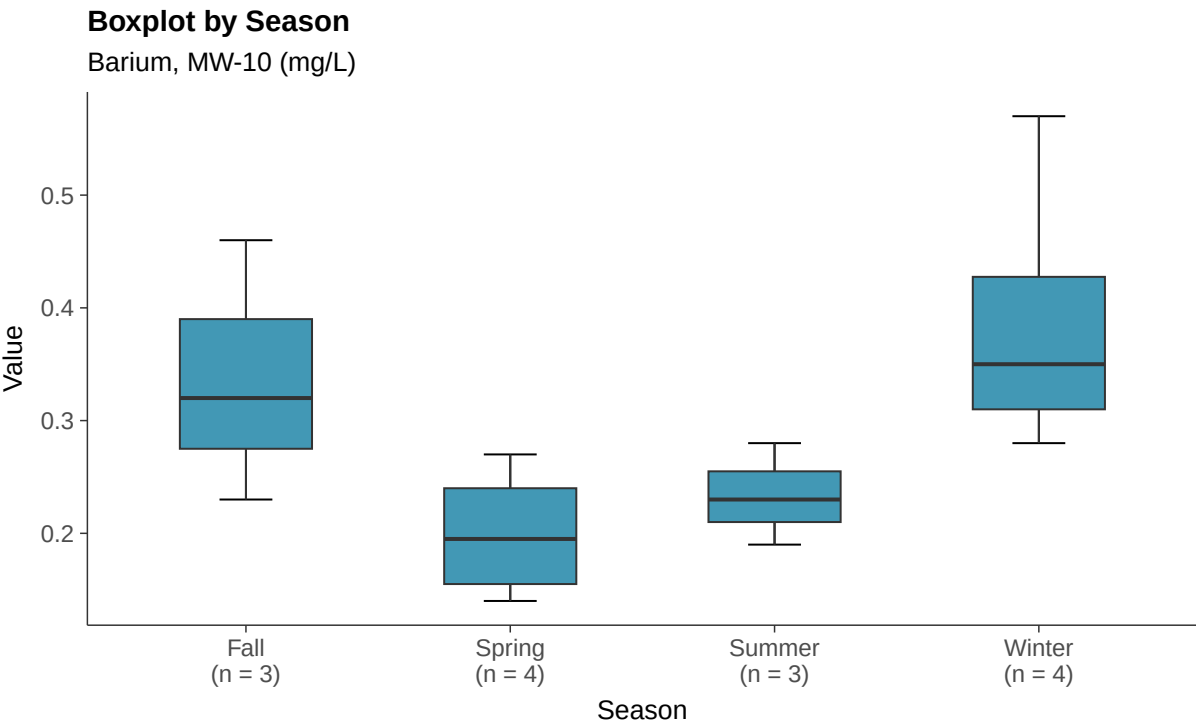
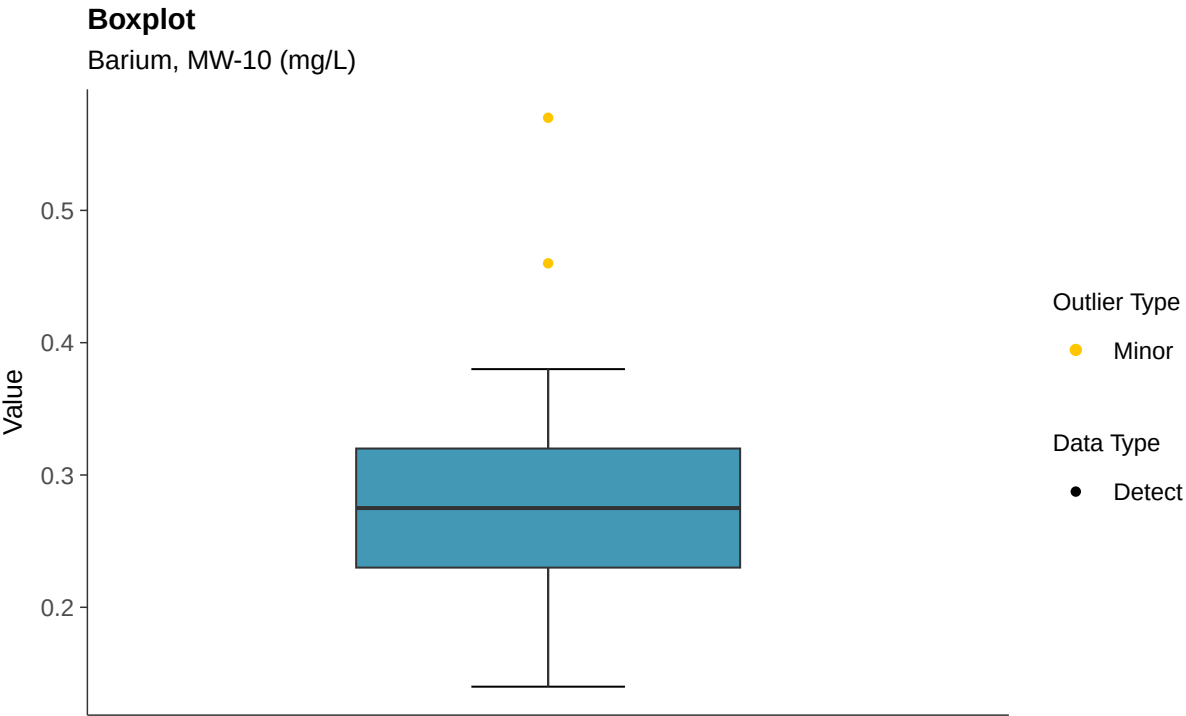


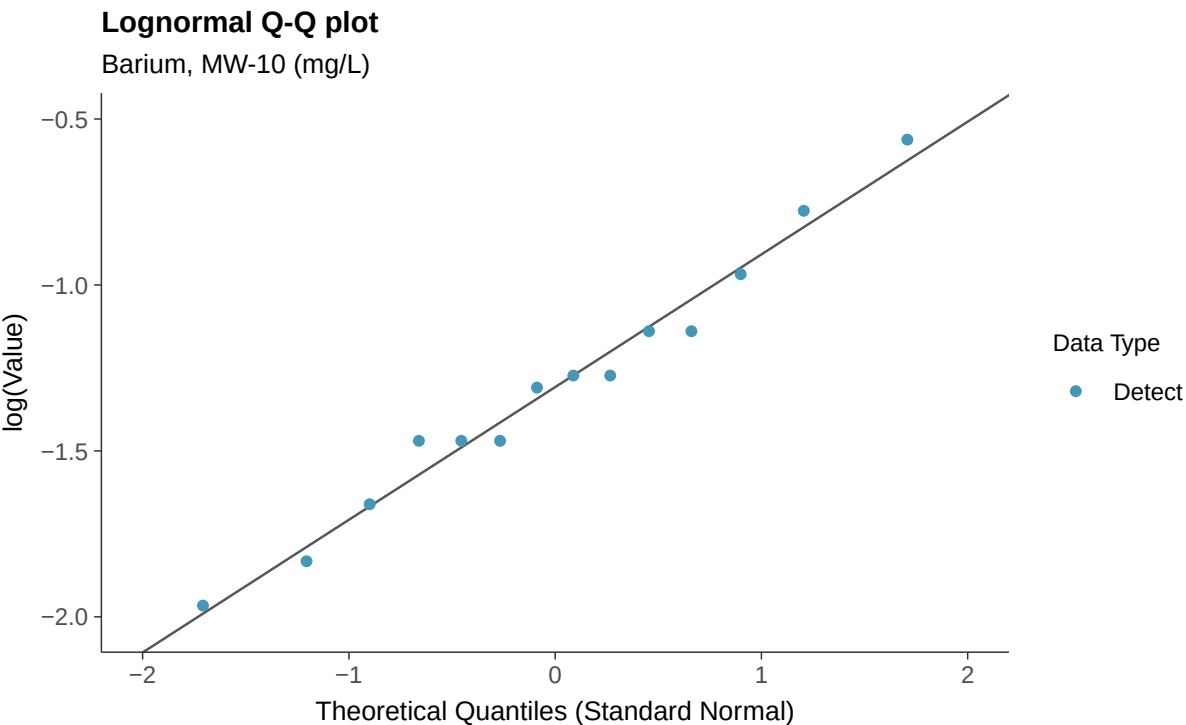
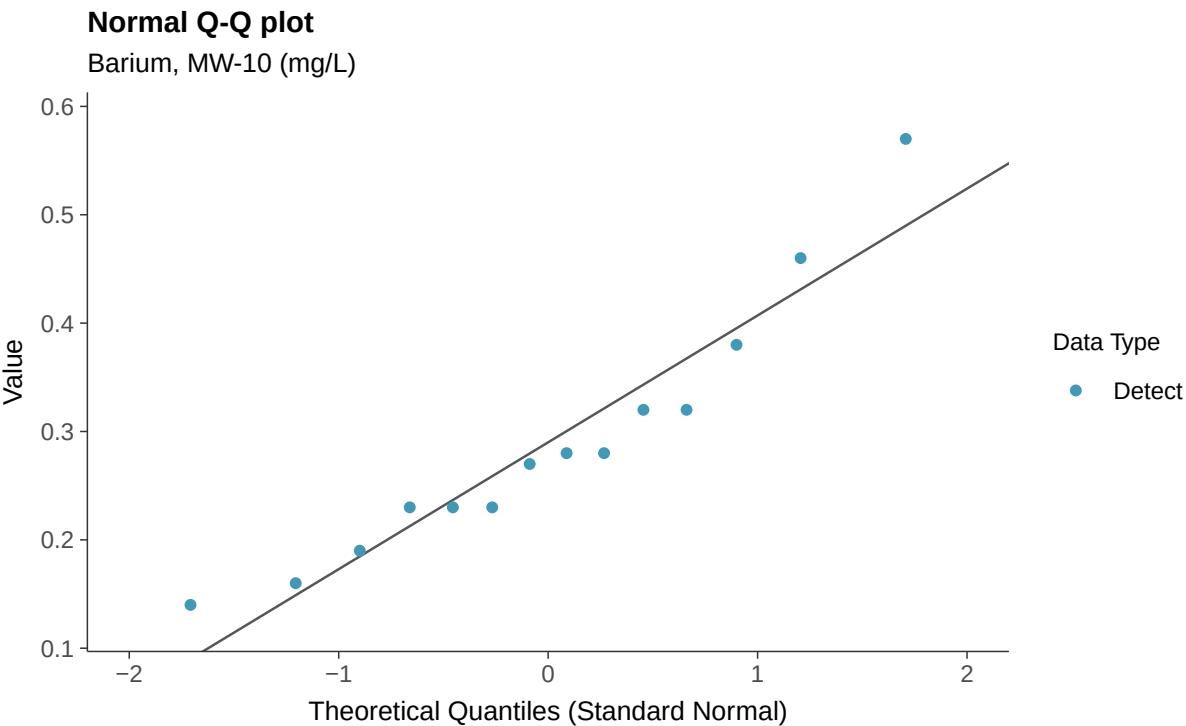


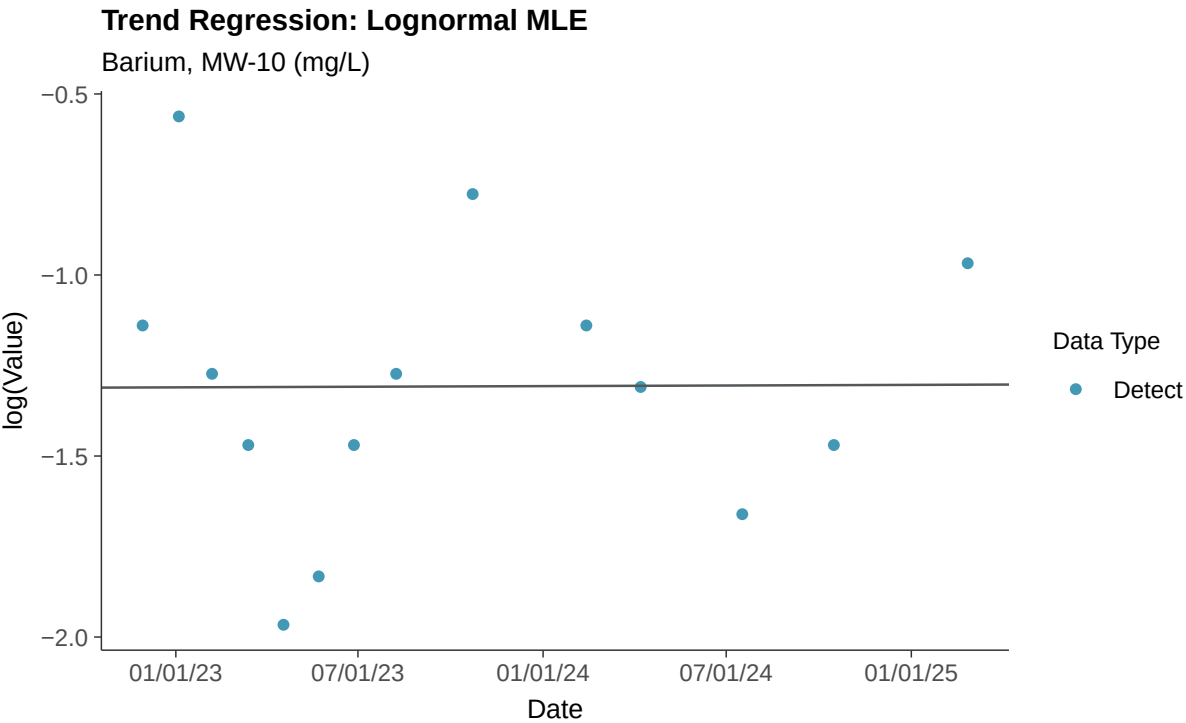
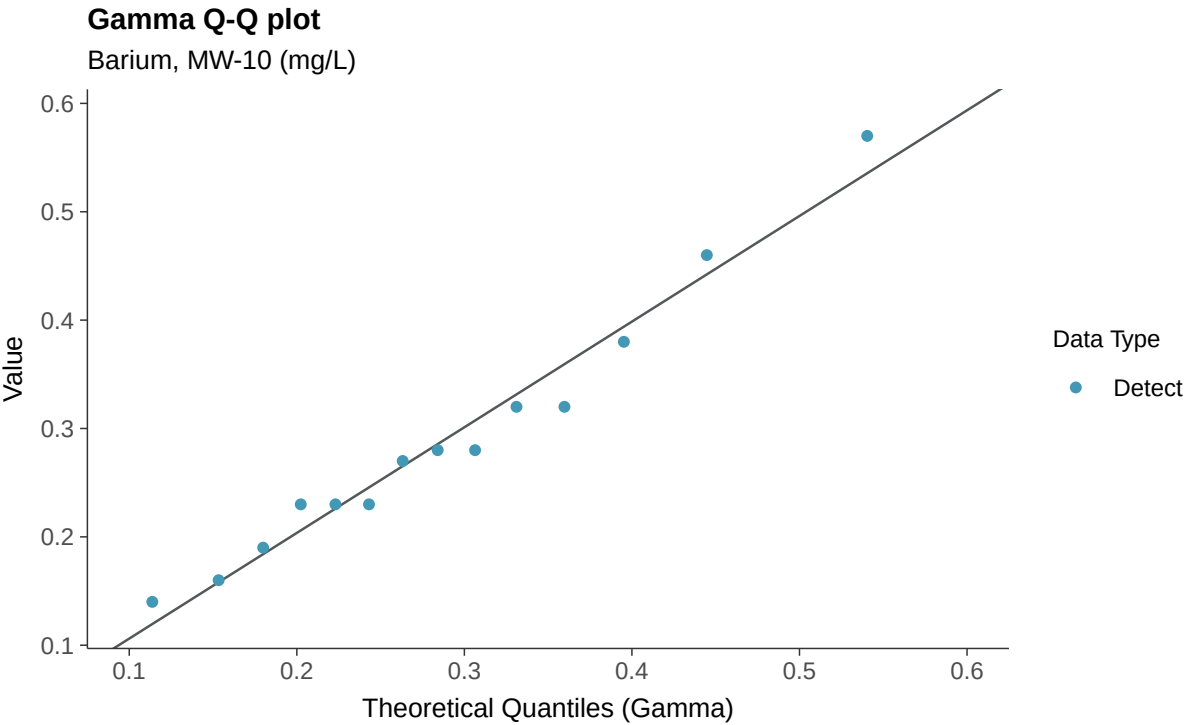
Appendix IV: Barium, MW-10

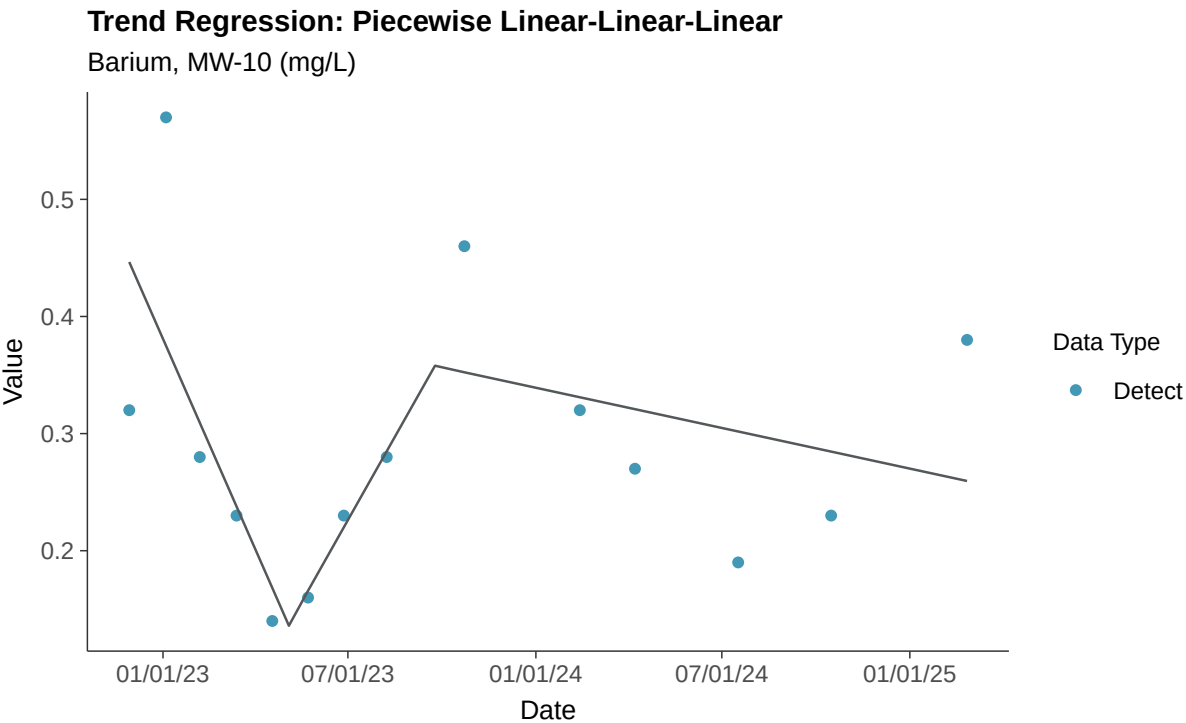
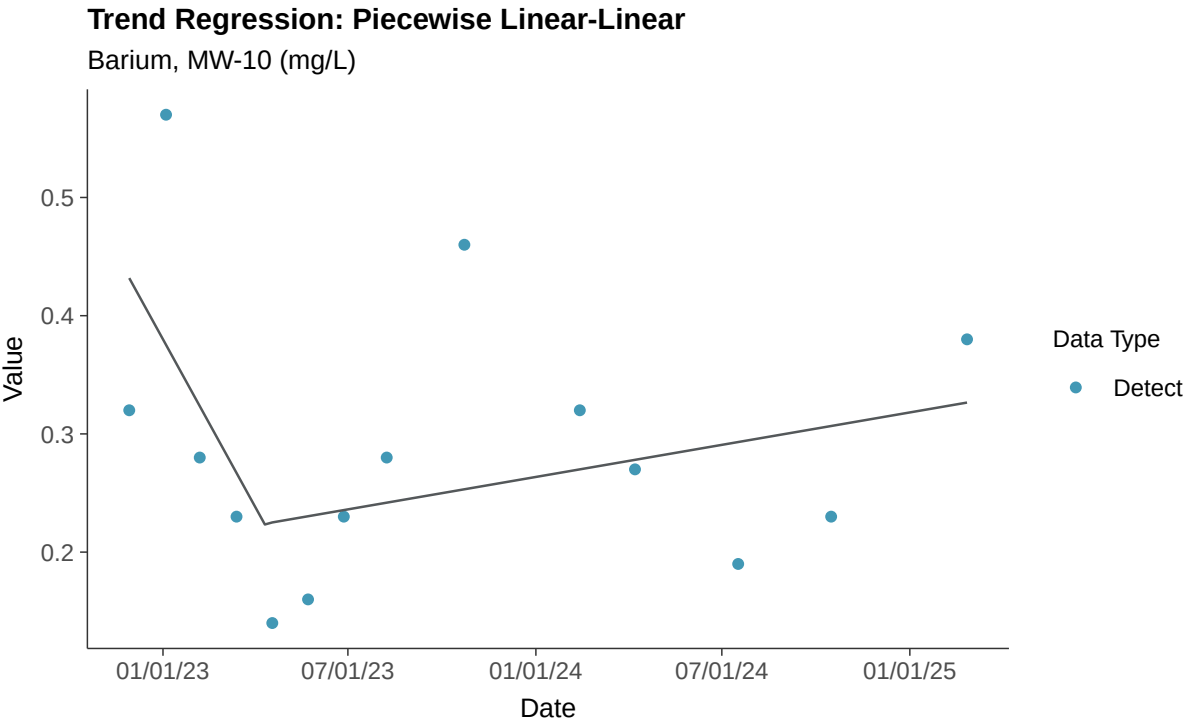
ID: 20_3_4_103







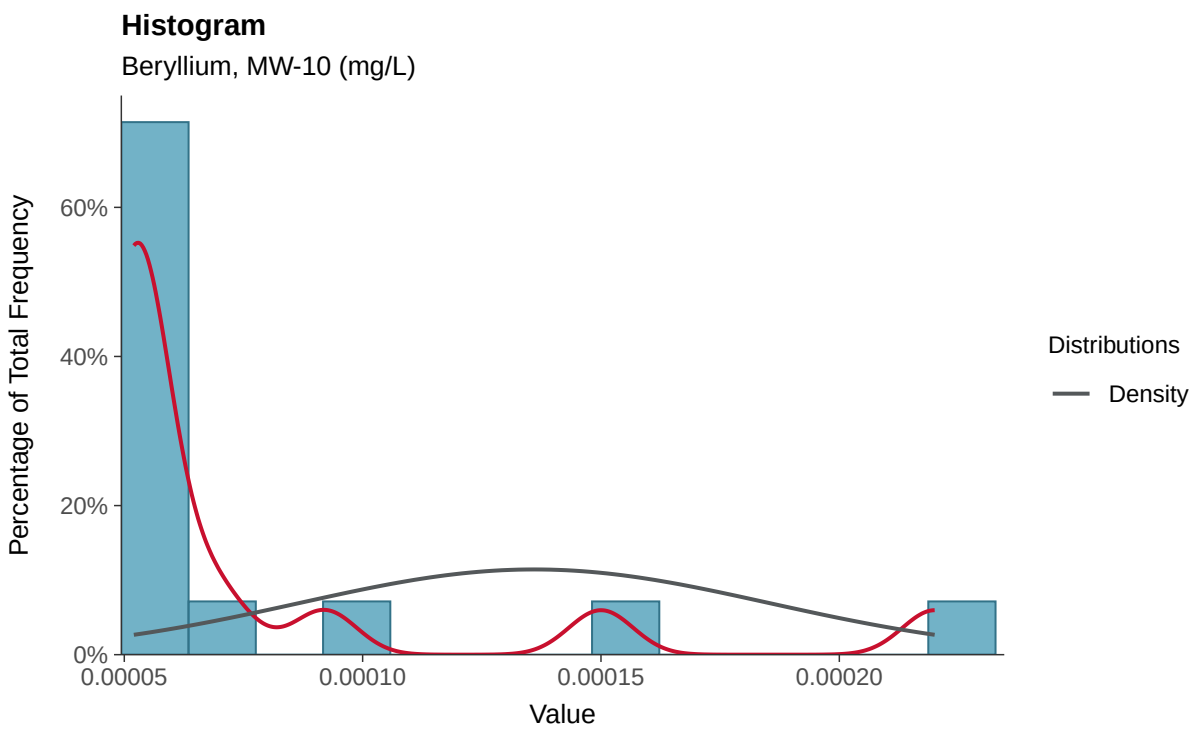
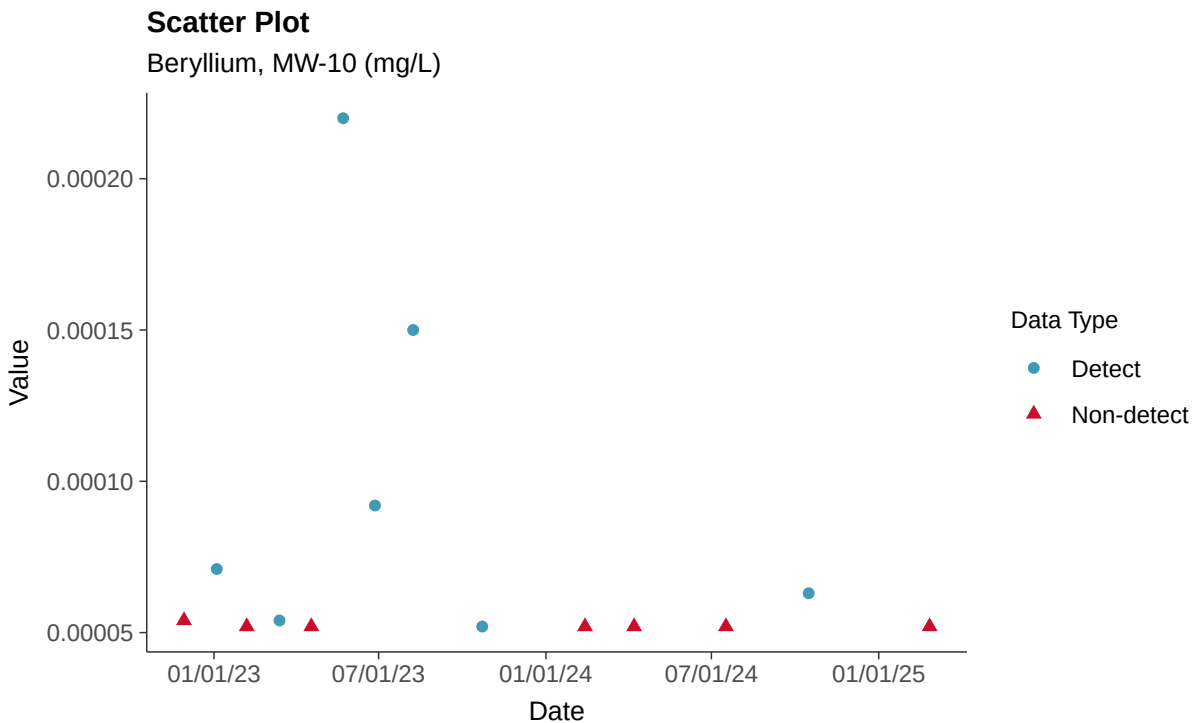


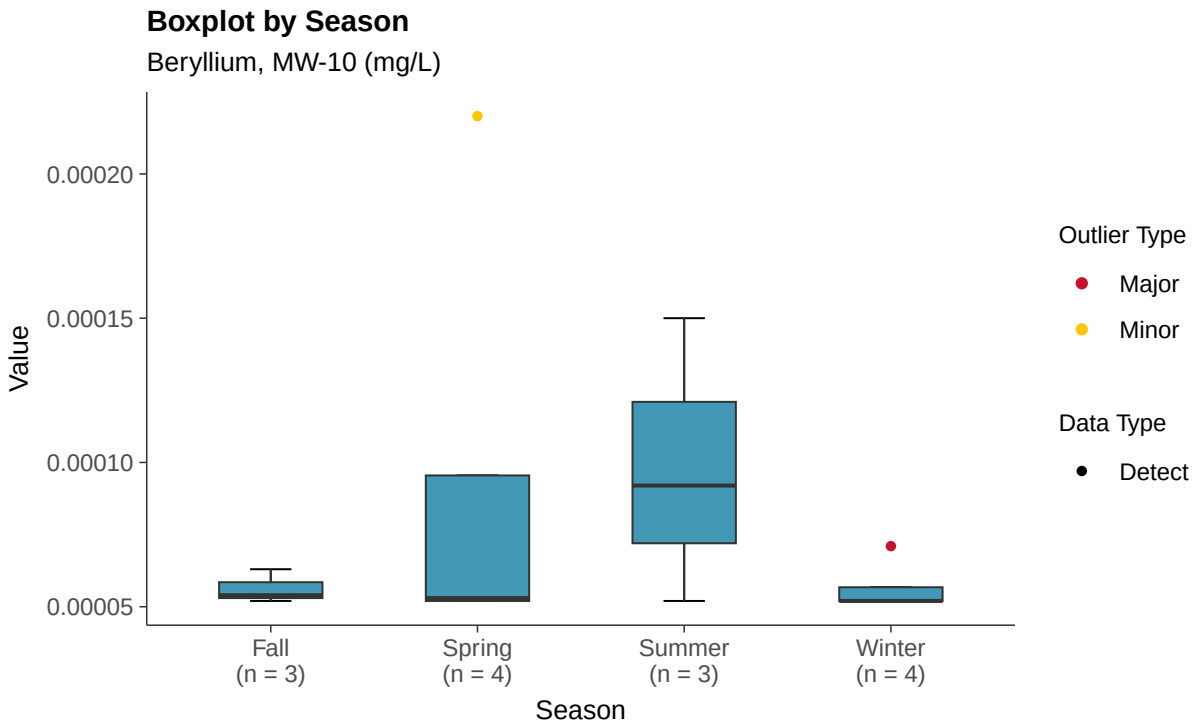
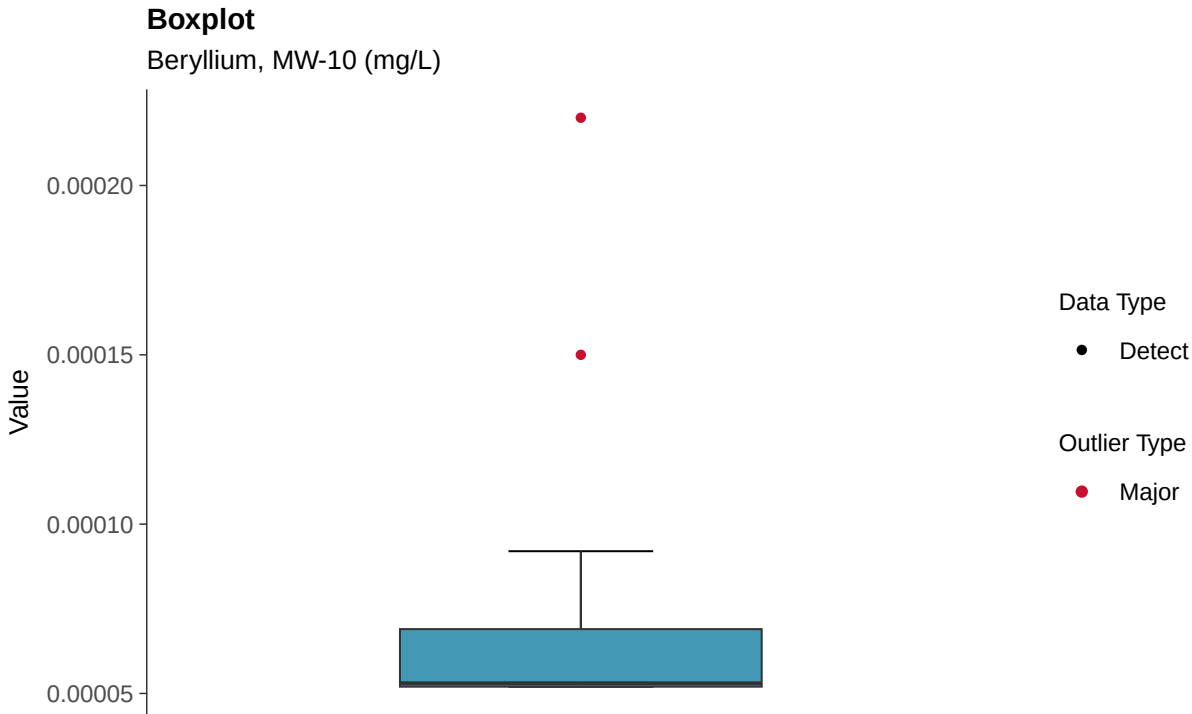




Appendix IV: Beryllium, MW-10

ID: 20_3_4_104

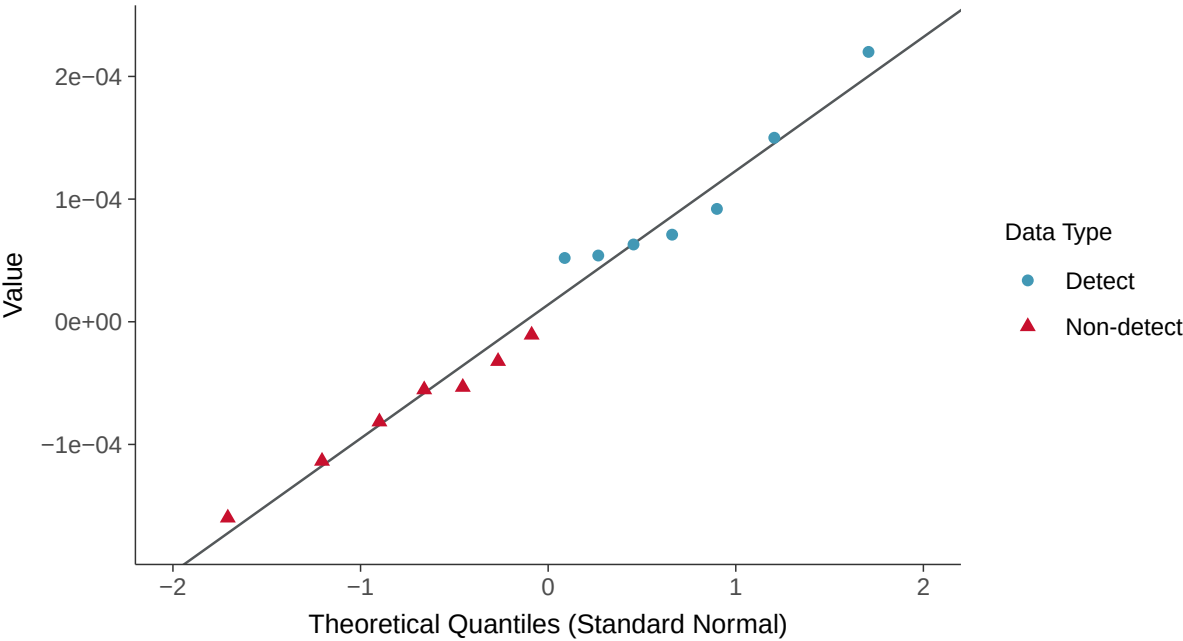






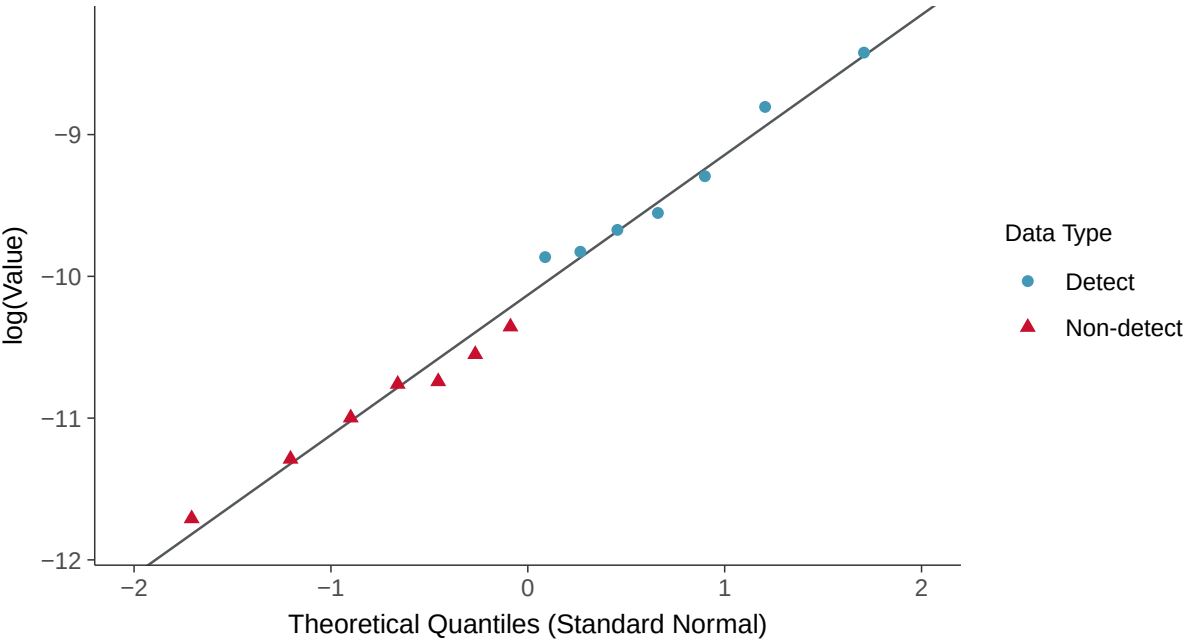
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-10 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

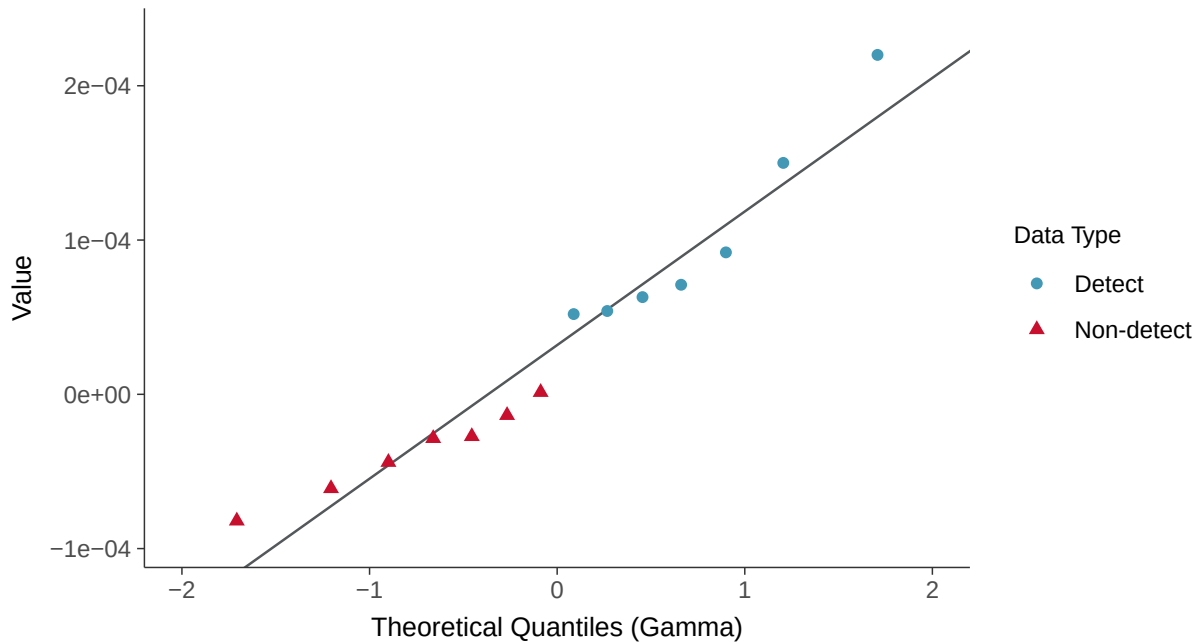
Beryllium, MW-10 (mg/L)





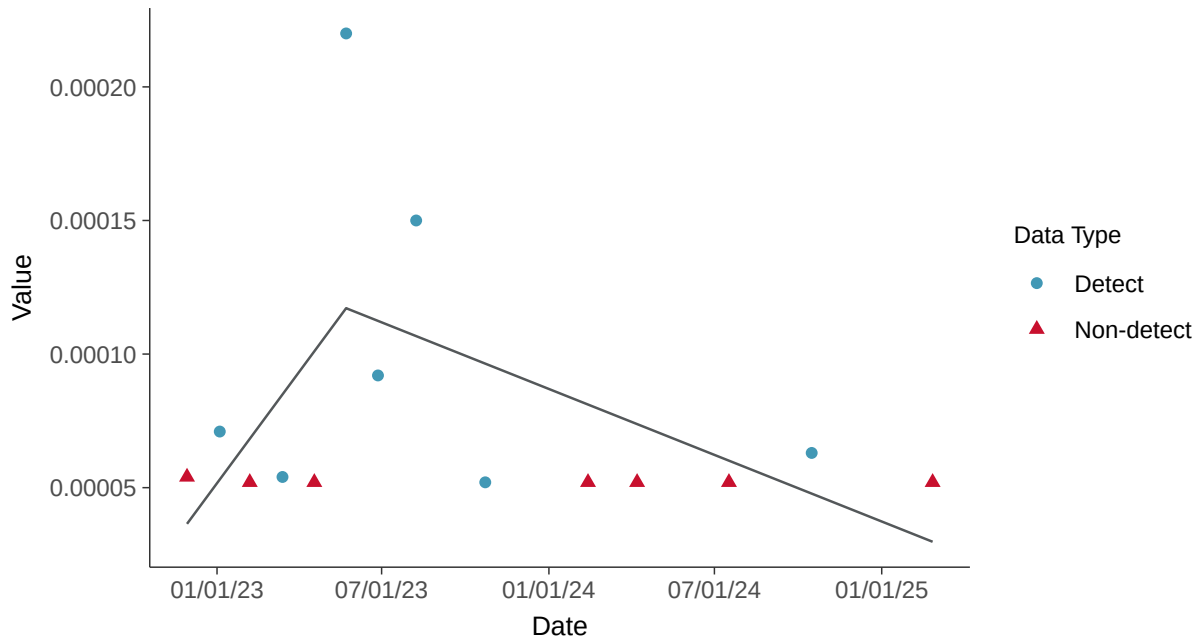
Gamma Q-Q plot using ROS Imputed Estimates

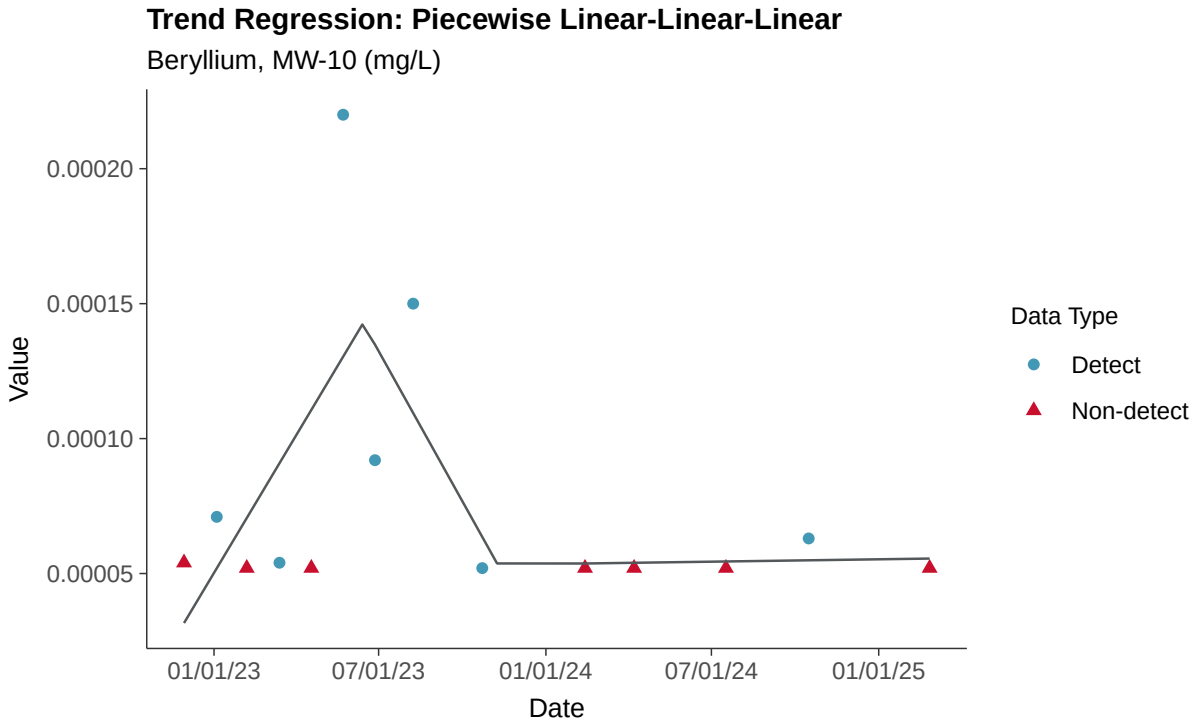
Beryllium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Beryllium, MW-10 (mg/L)

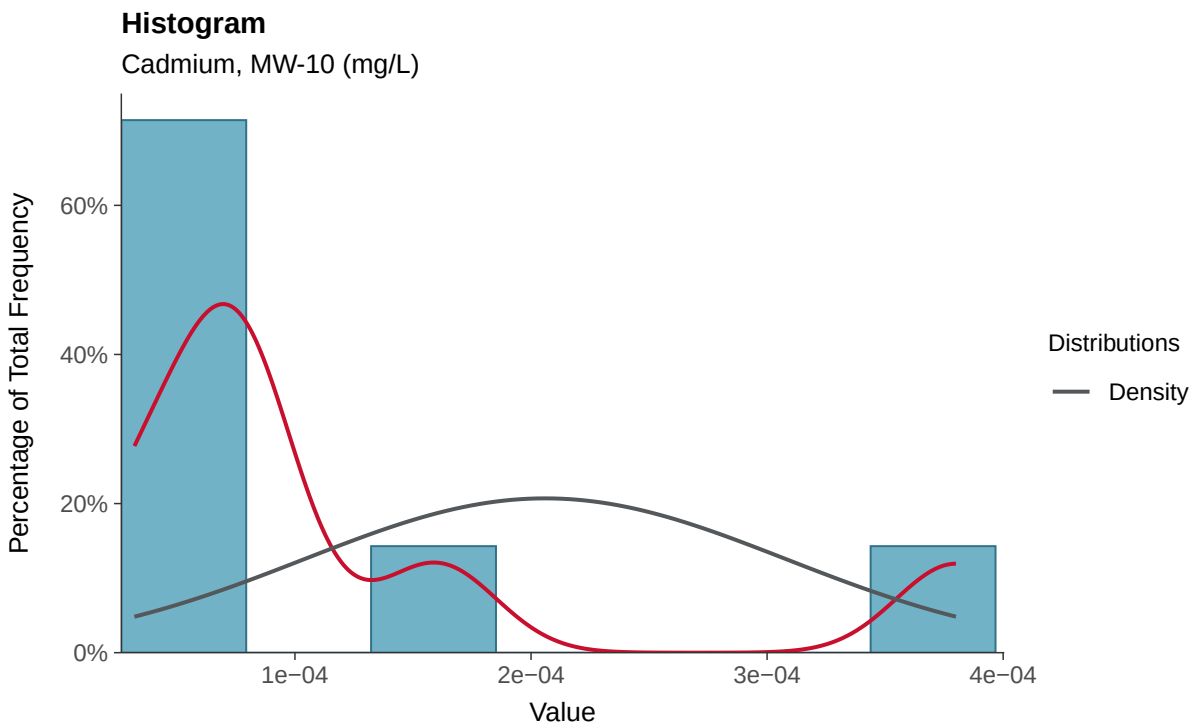
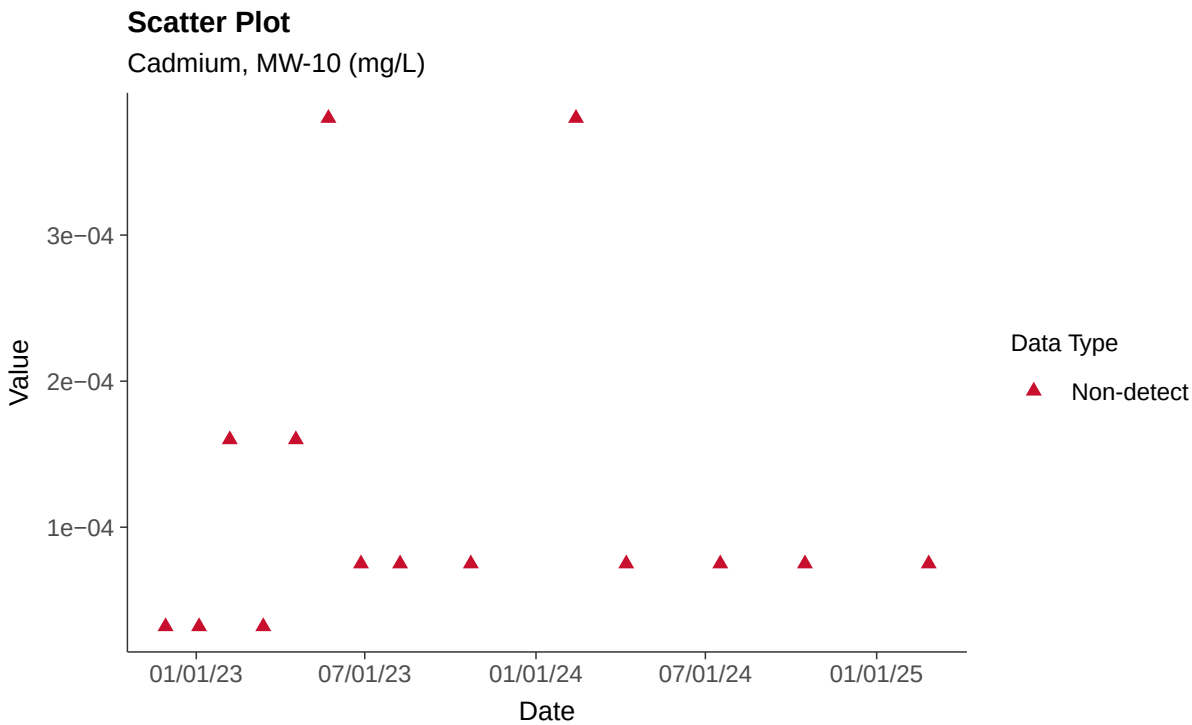


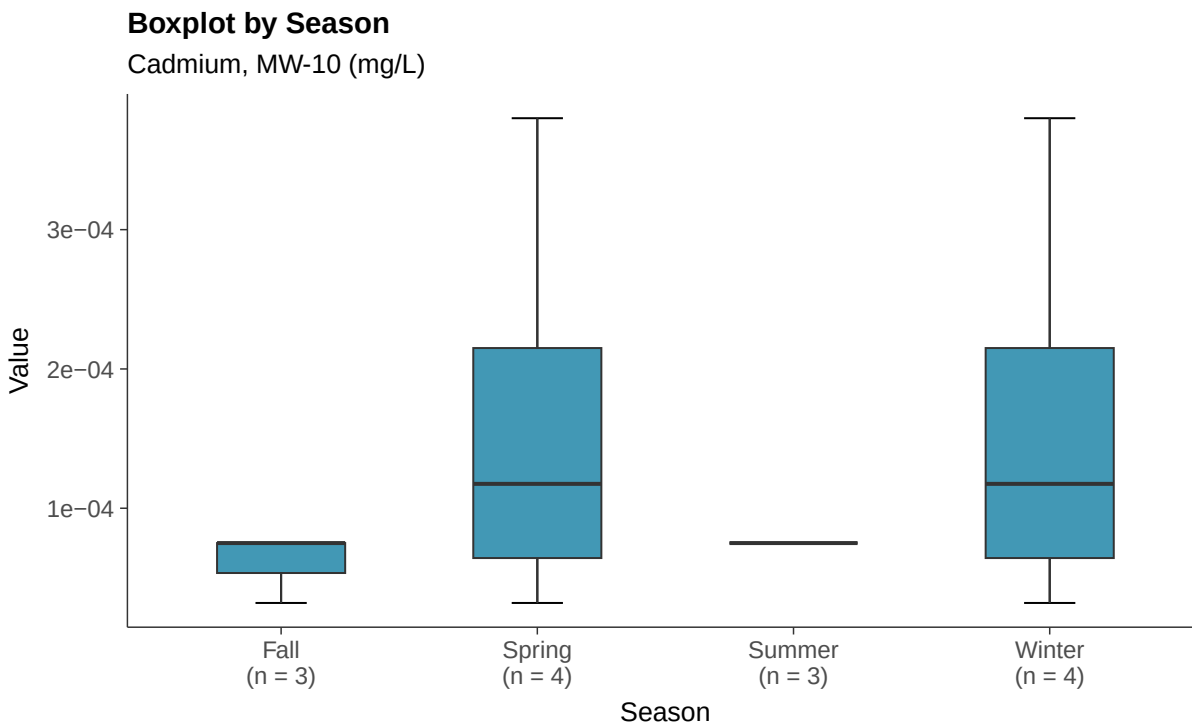
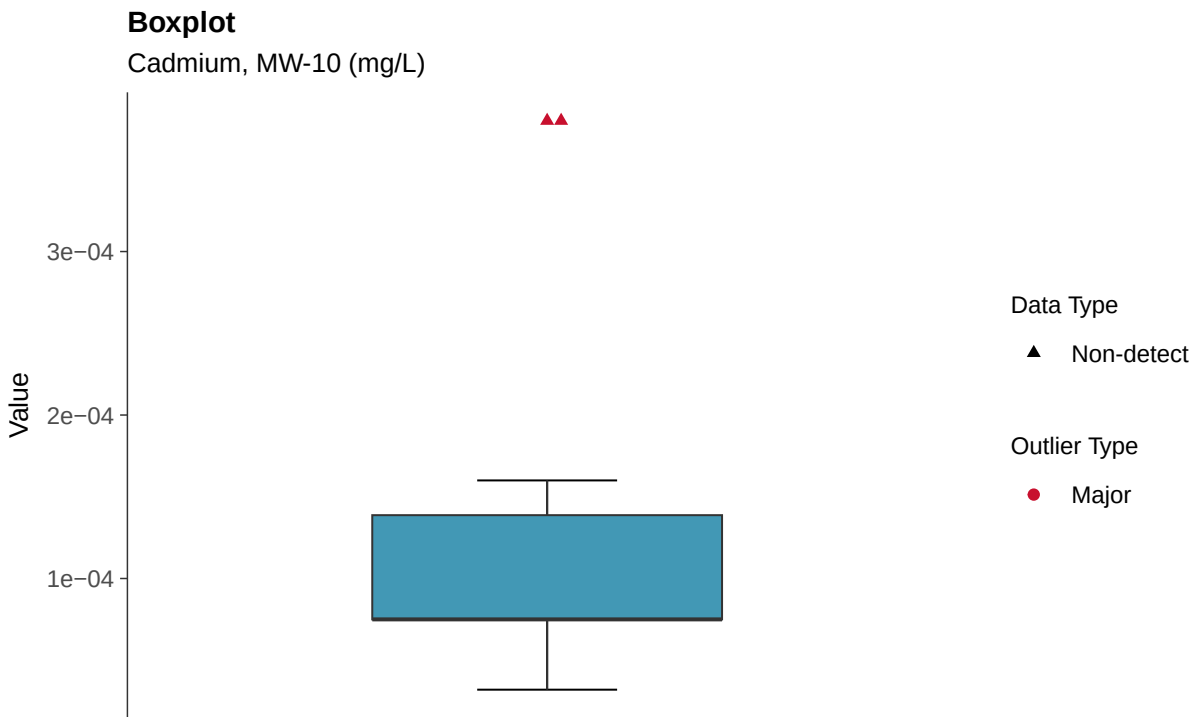


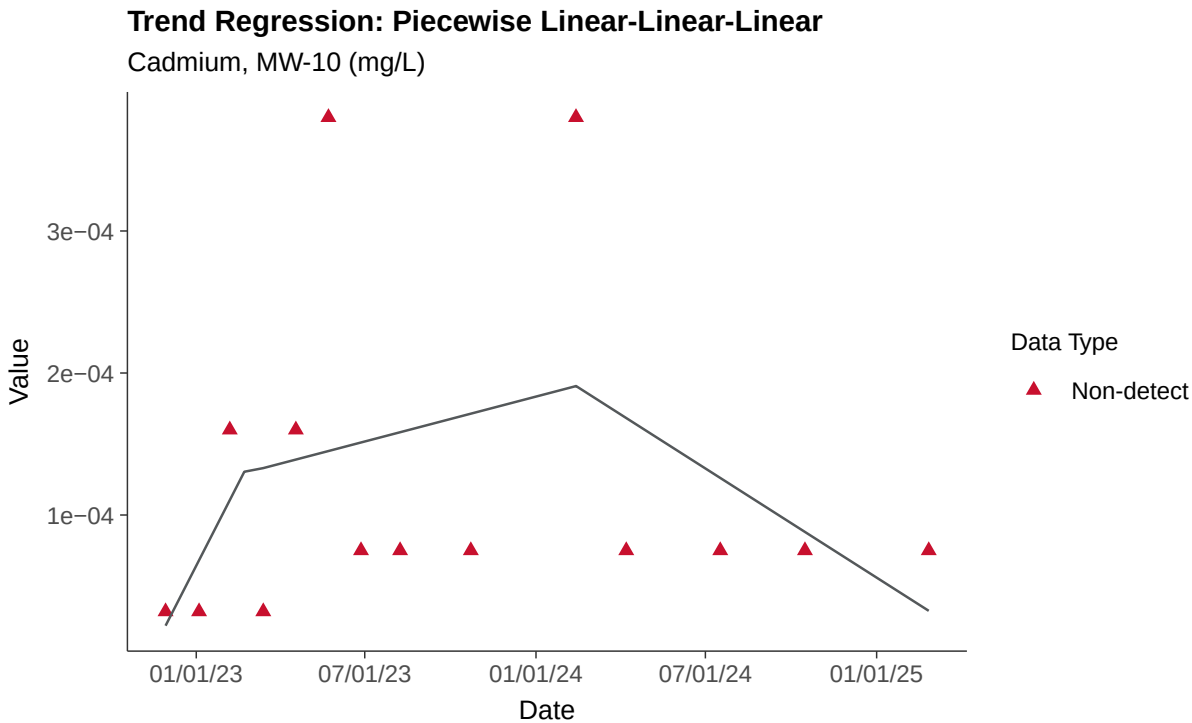
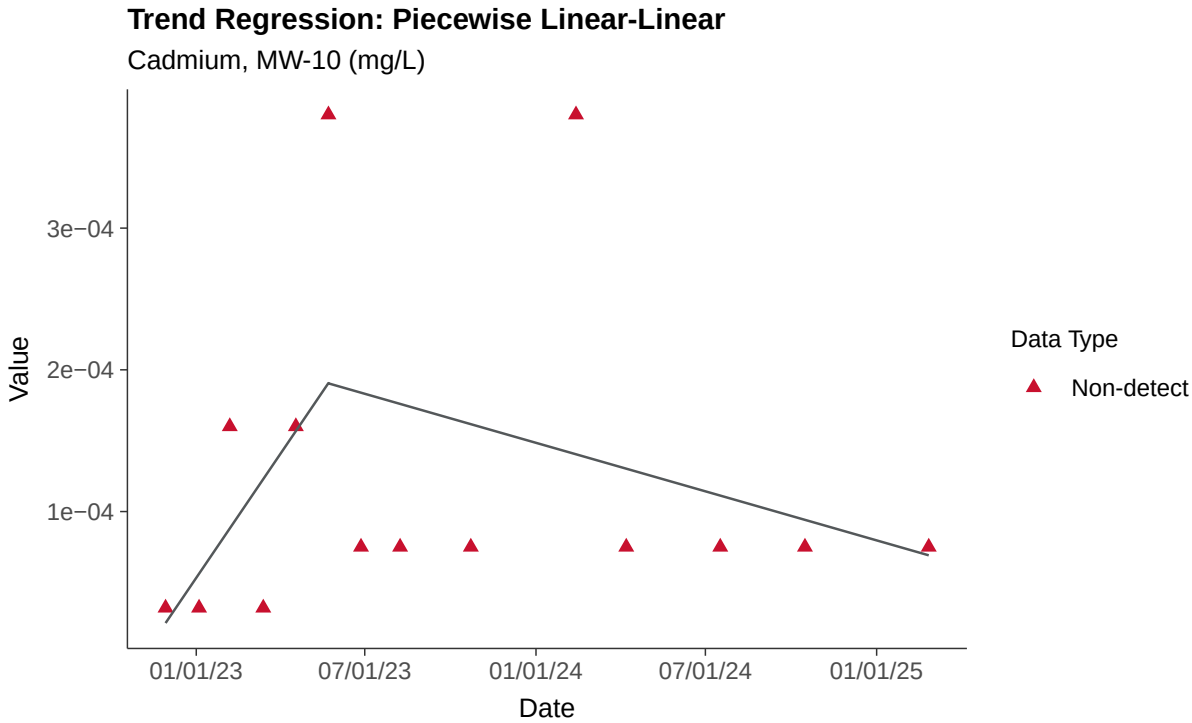


Appendix IV: Cadmium, MW-10

ID: 20_3_4_106



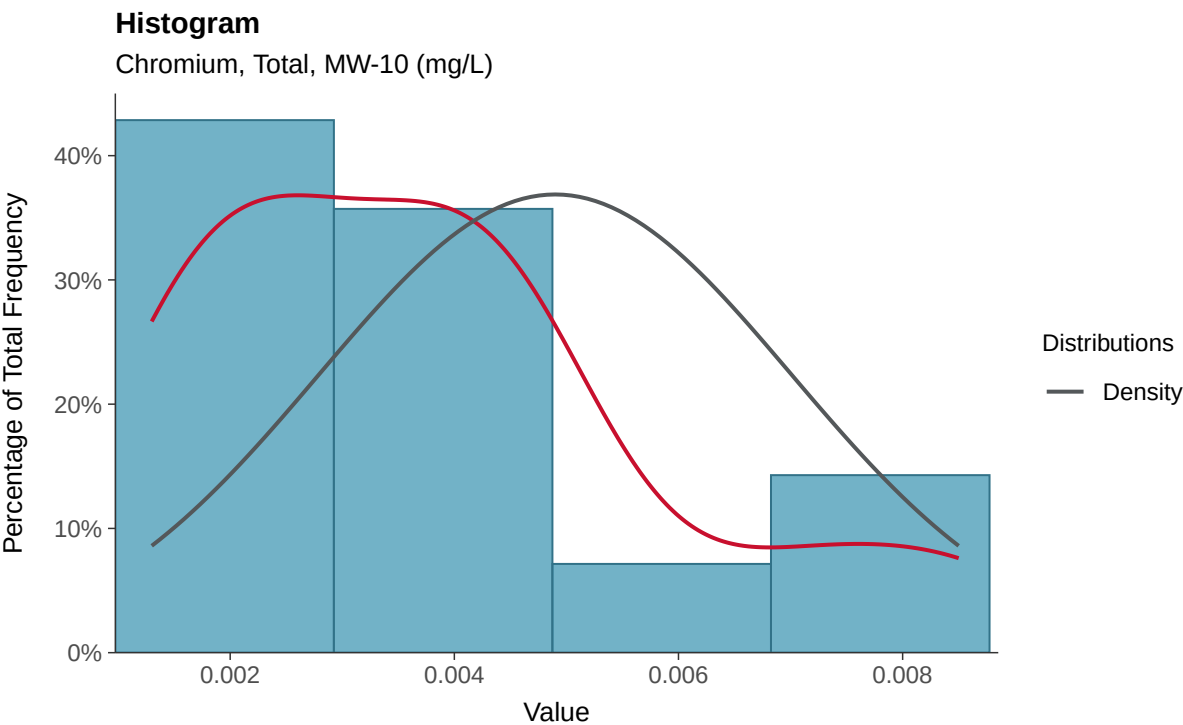
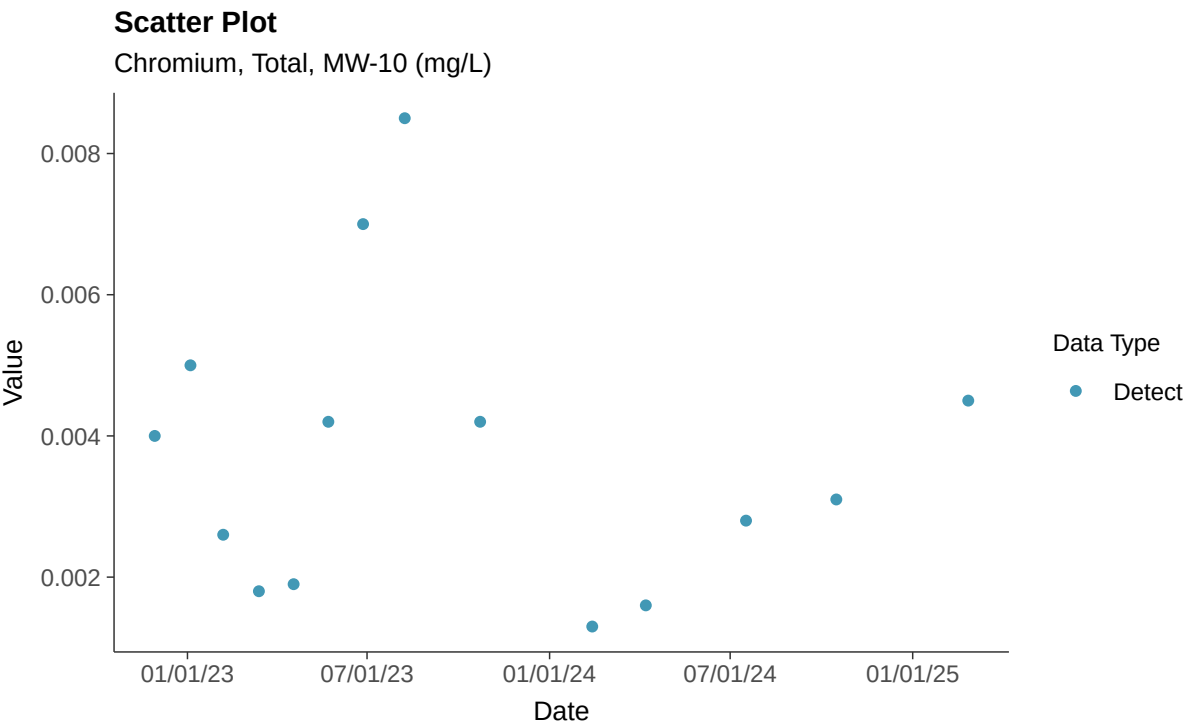


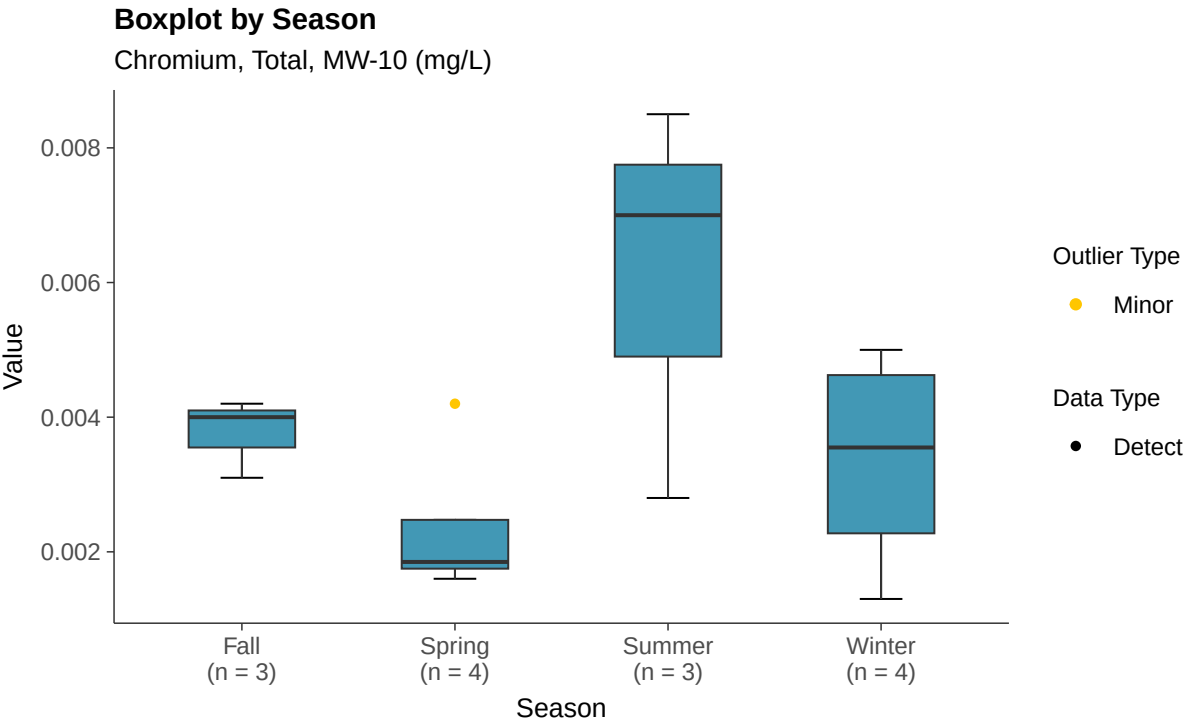
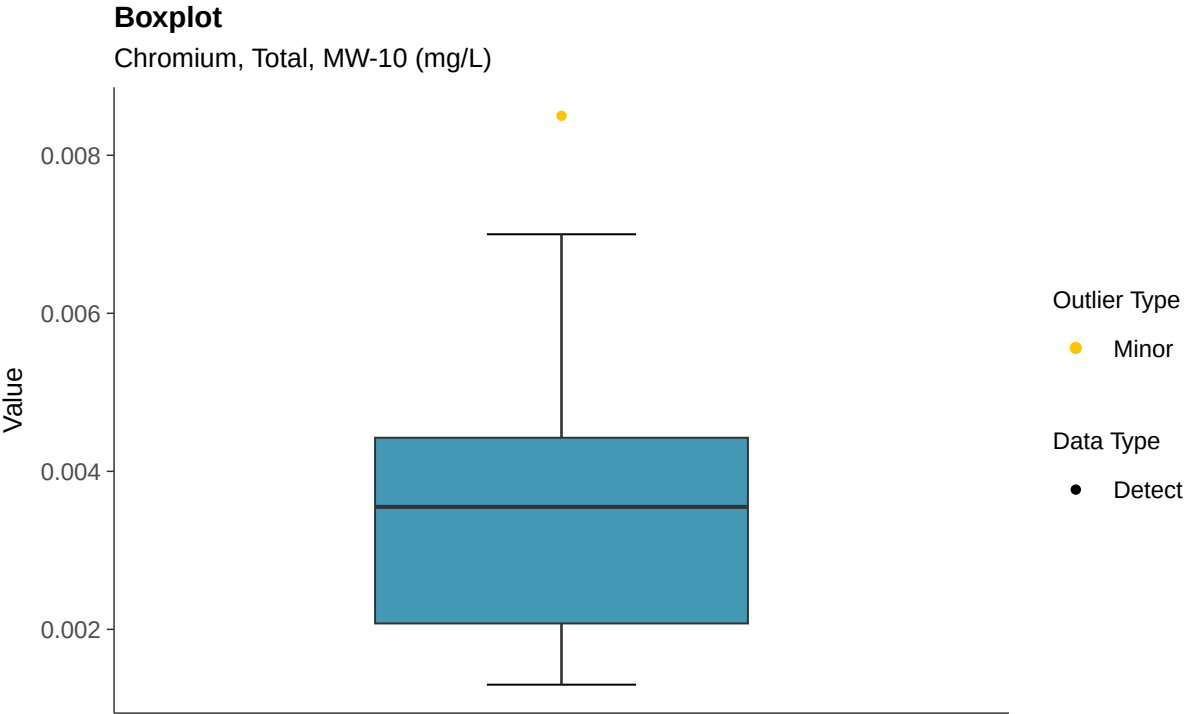


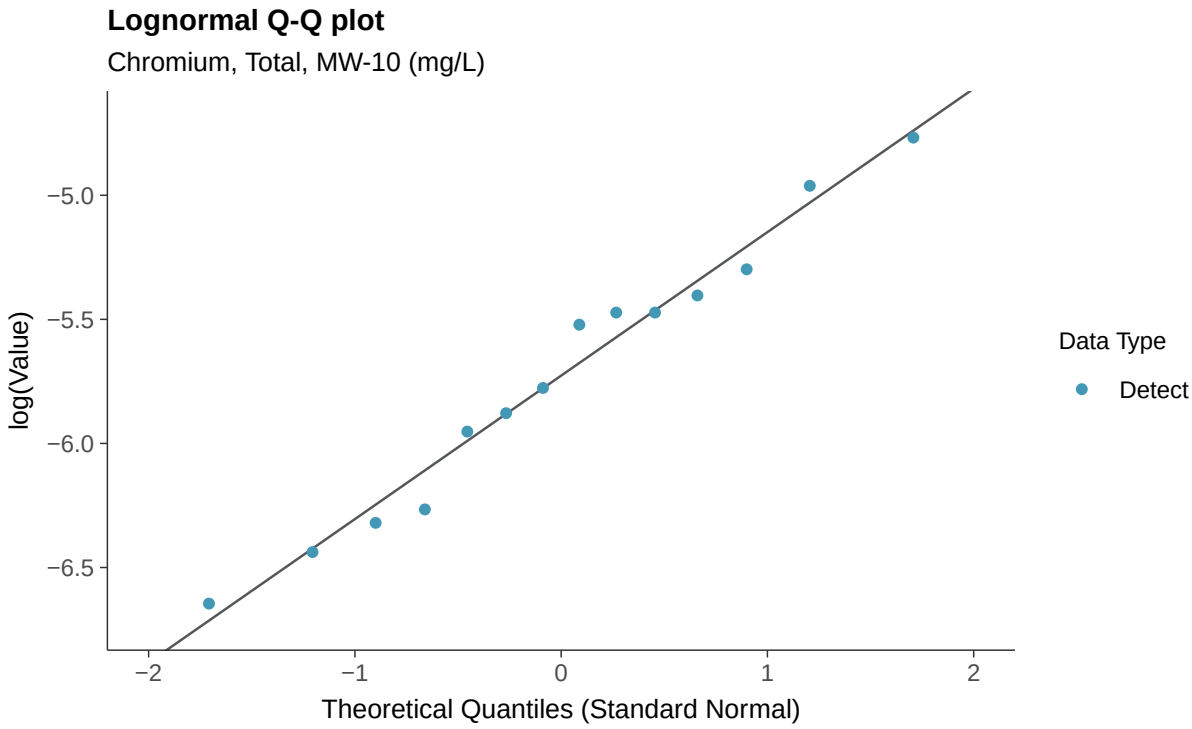
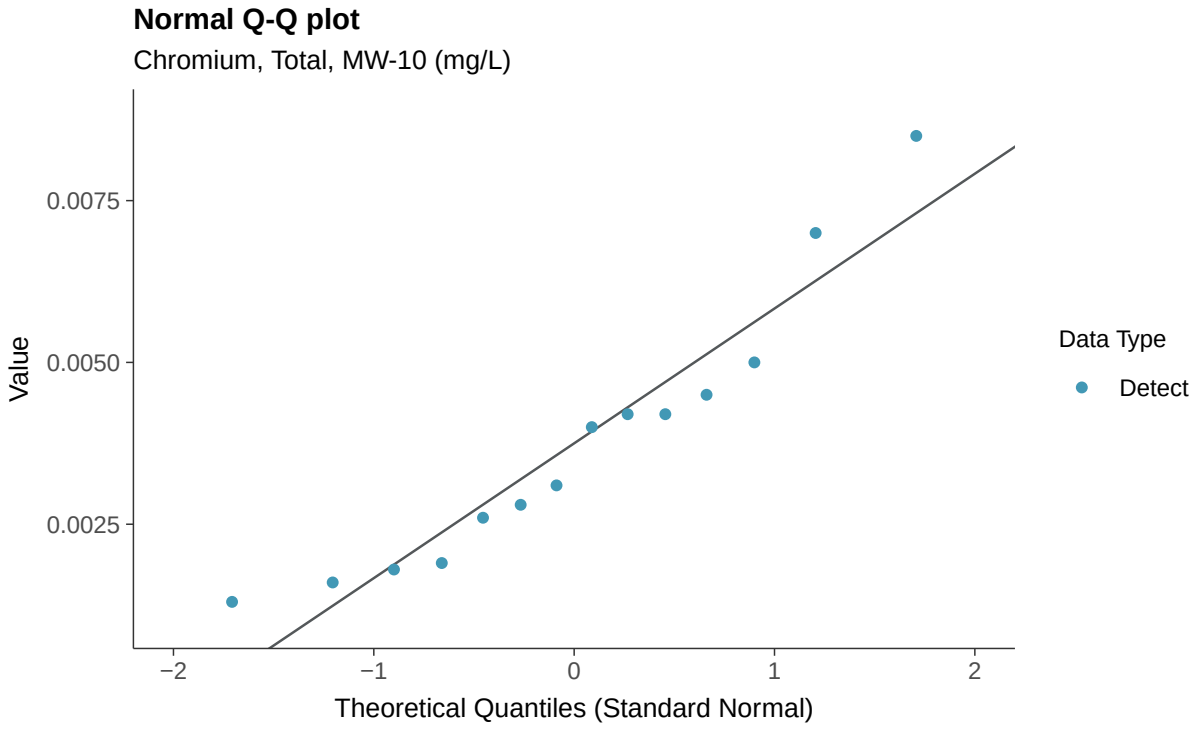


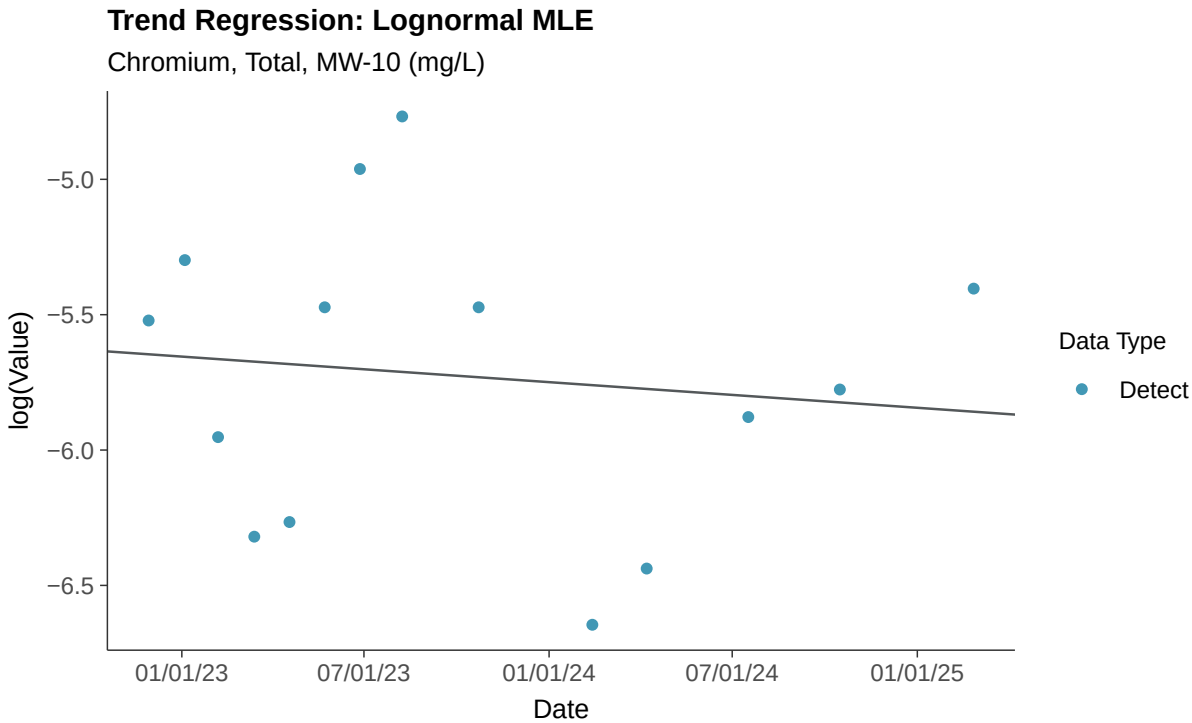
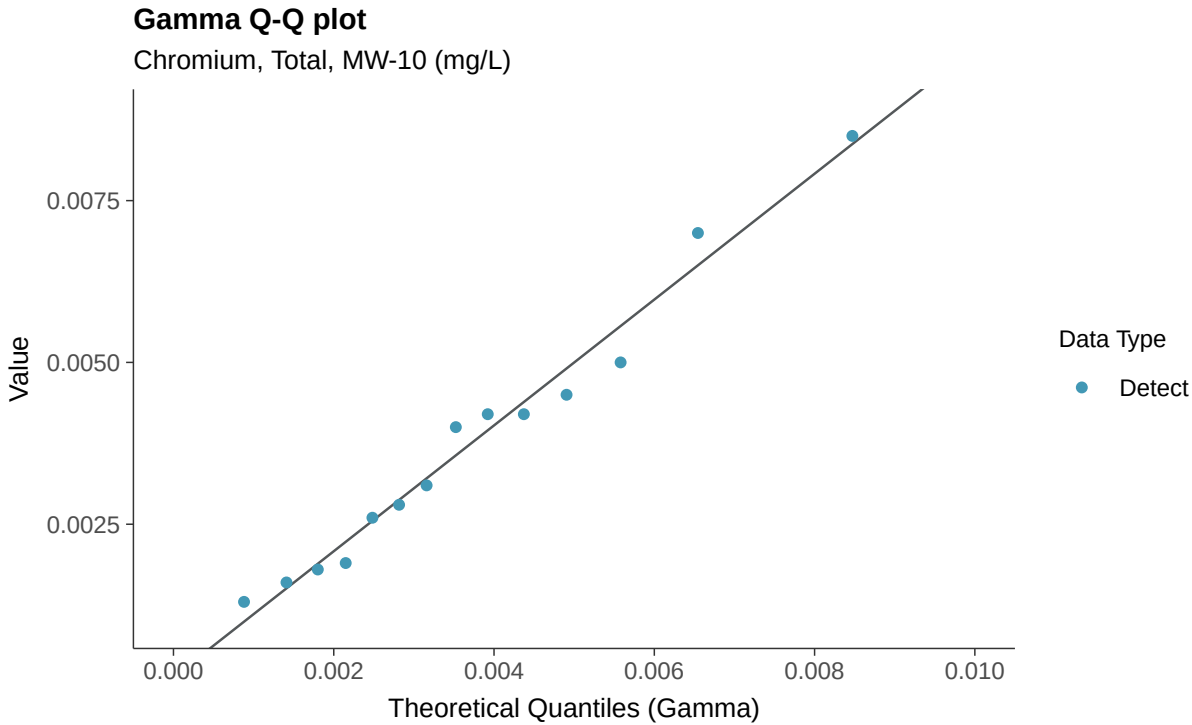
Appendix IV: Chromium, Total, MW-10

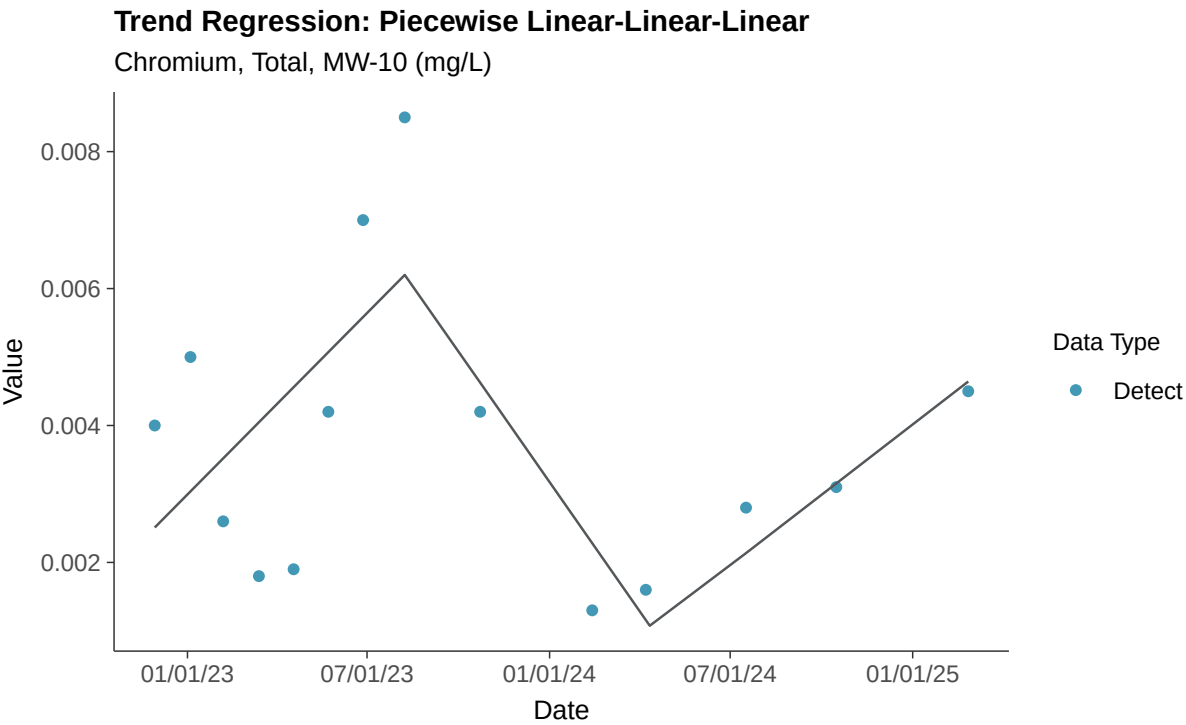
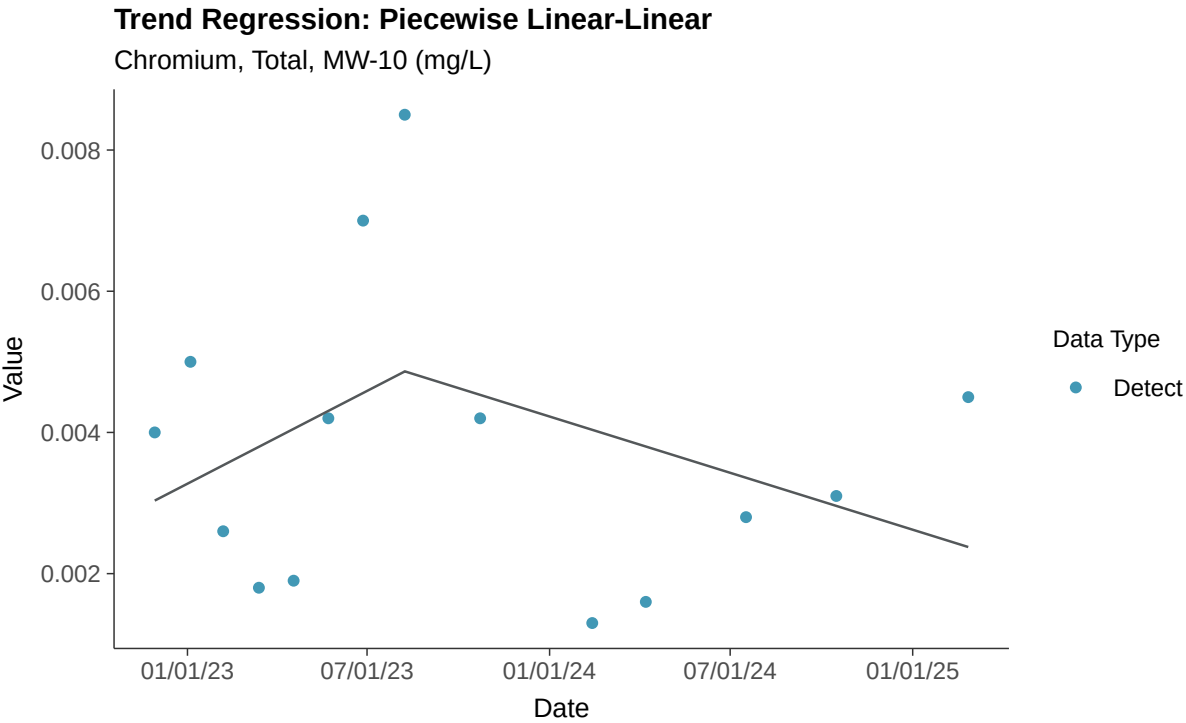
ID: 20_3_4_109







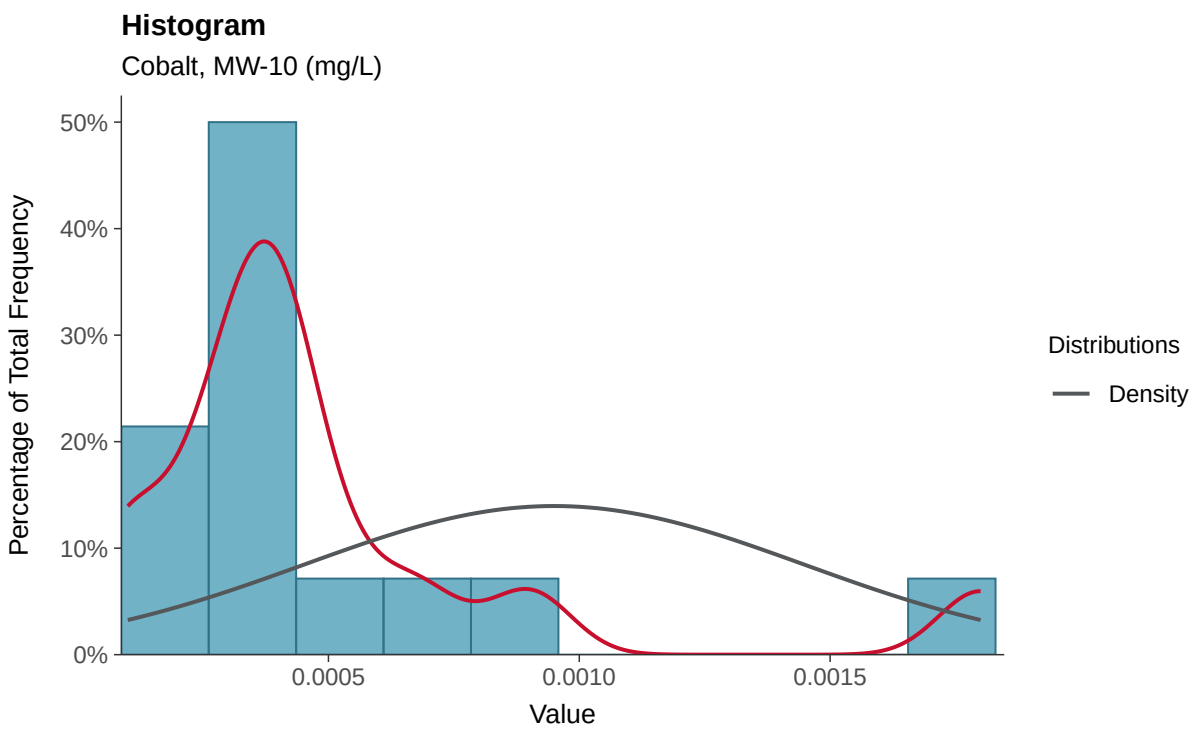
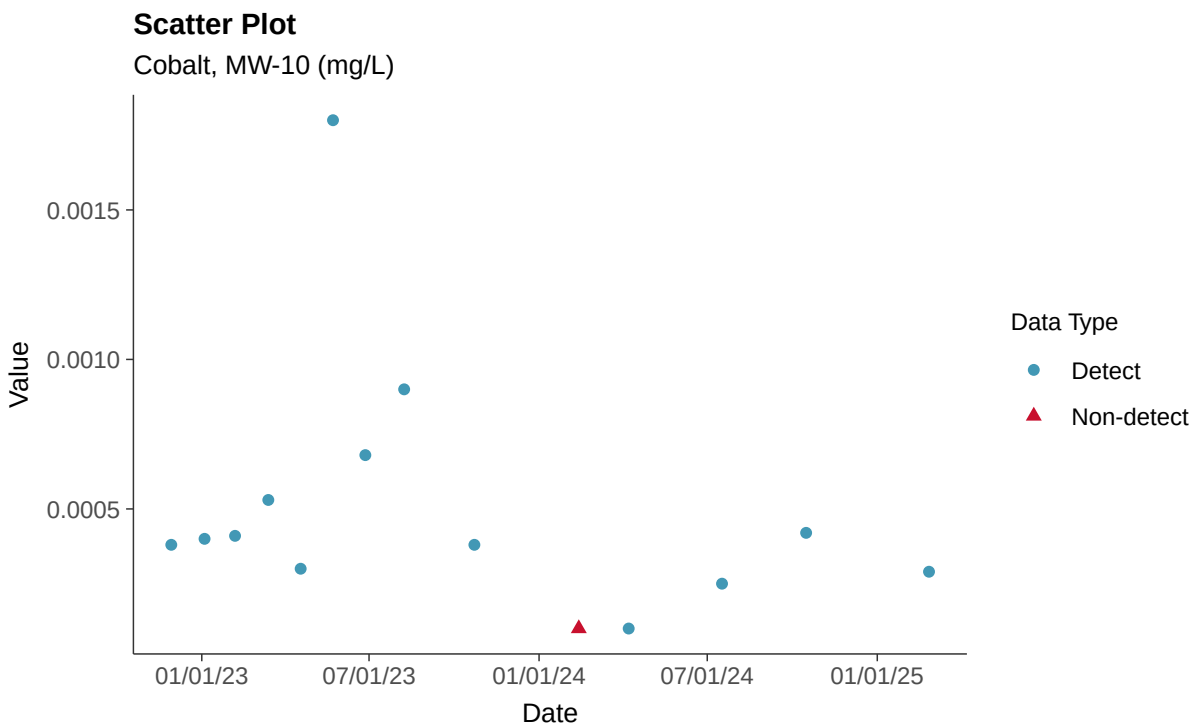


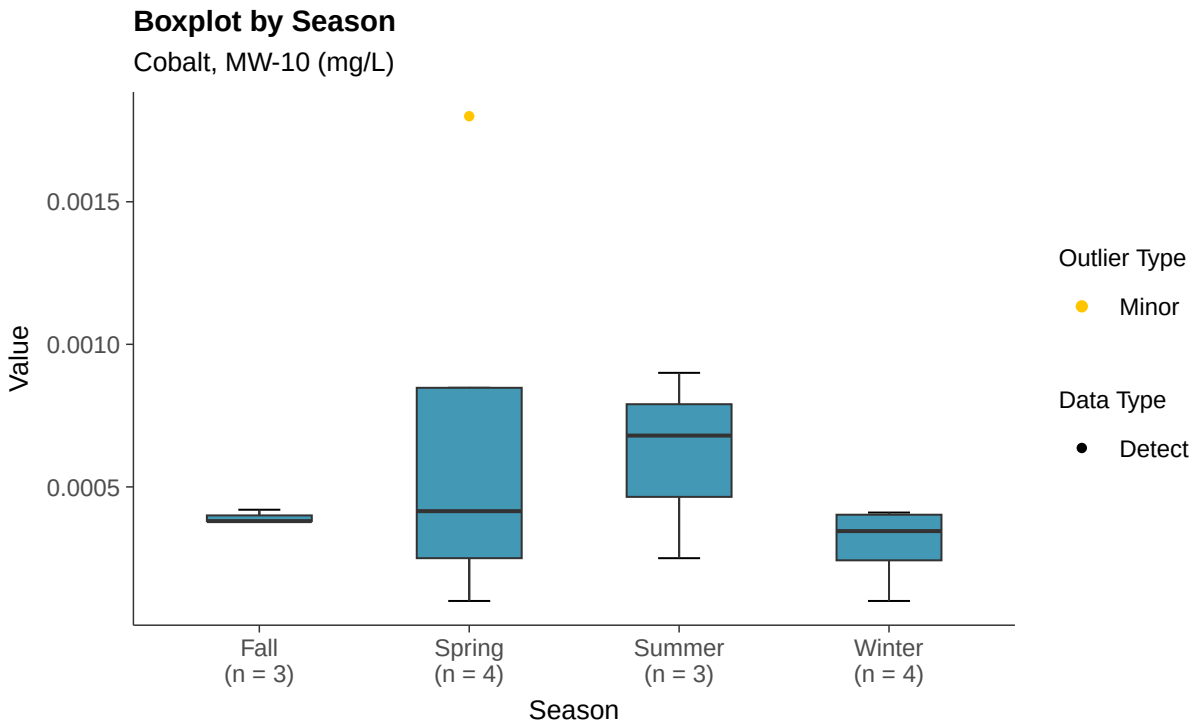
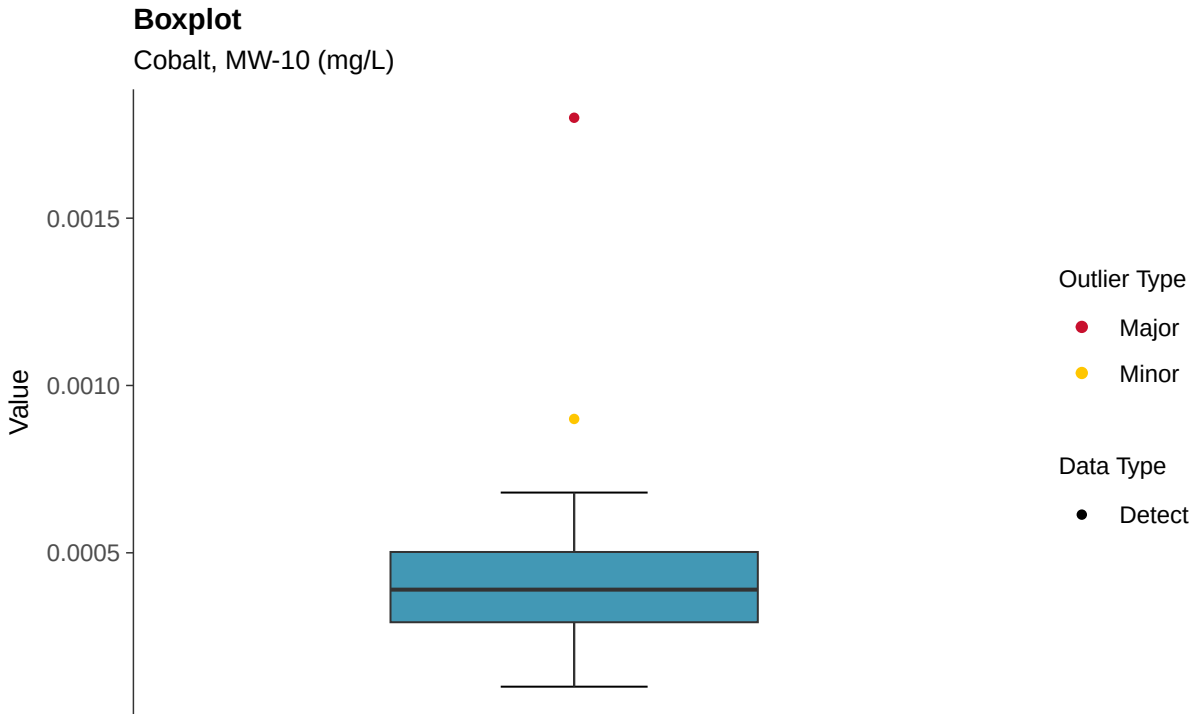




Appendix IV: Cobalt, MW-10

ID: 20_3_4_110

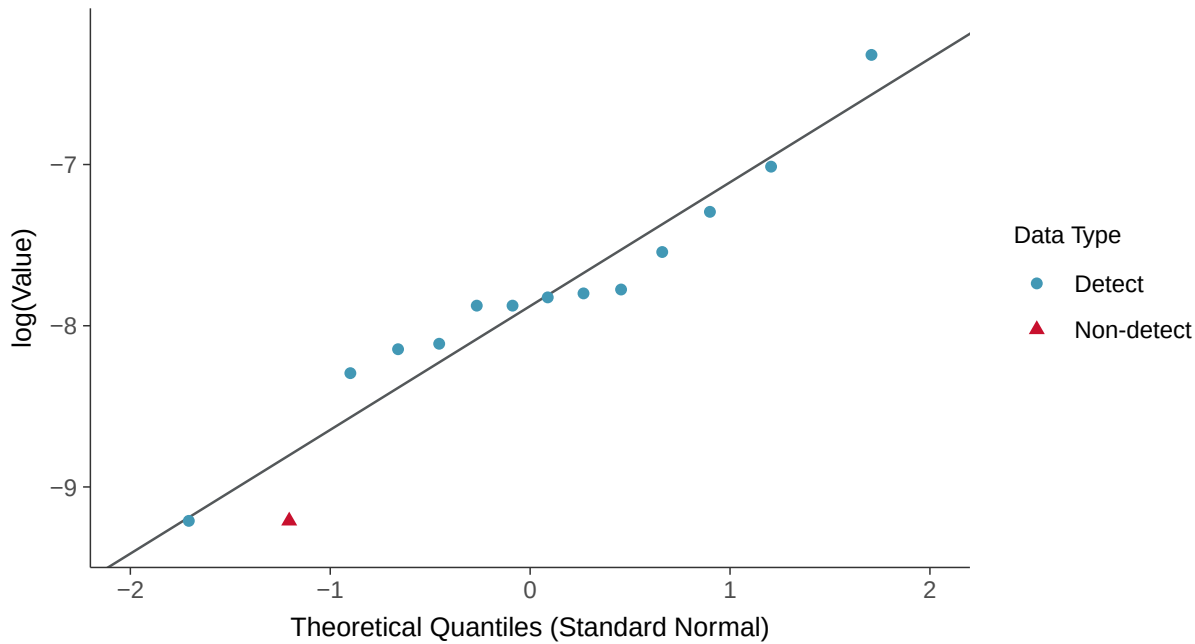






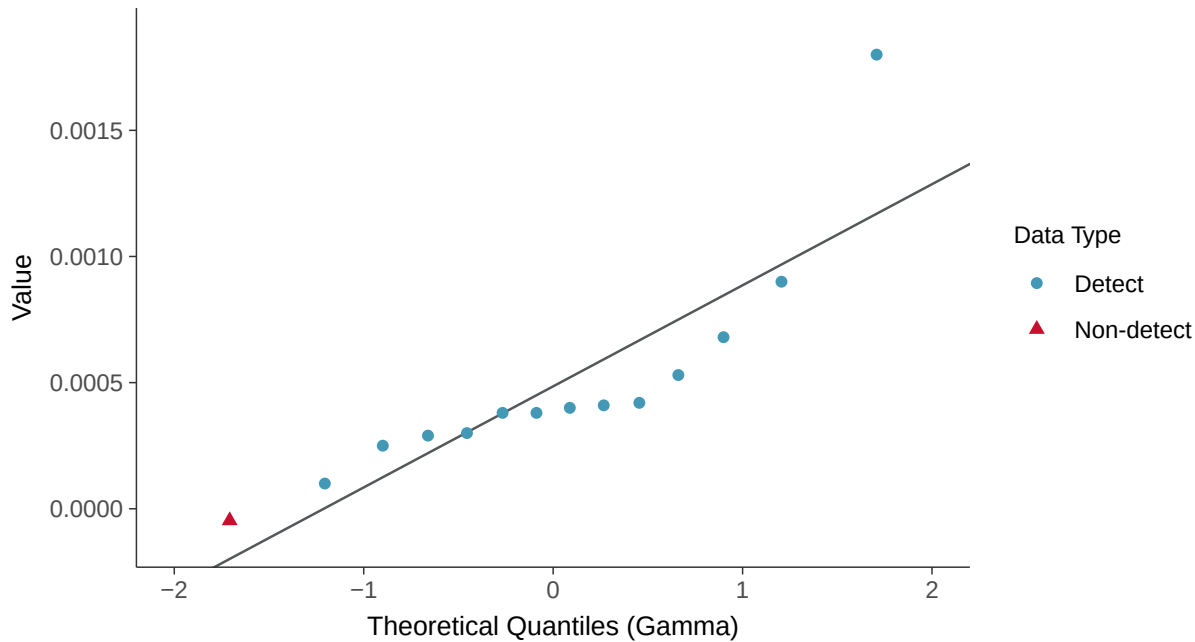
Lognormal Q-Q plot using ROS Imputed Estimates

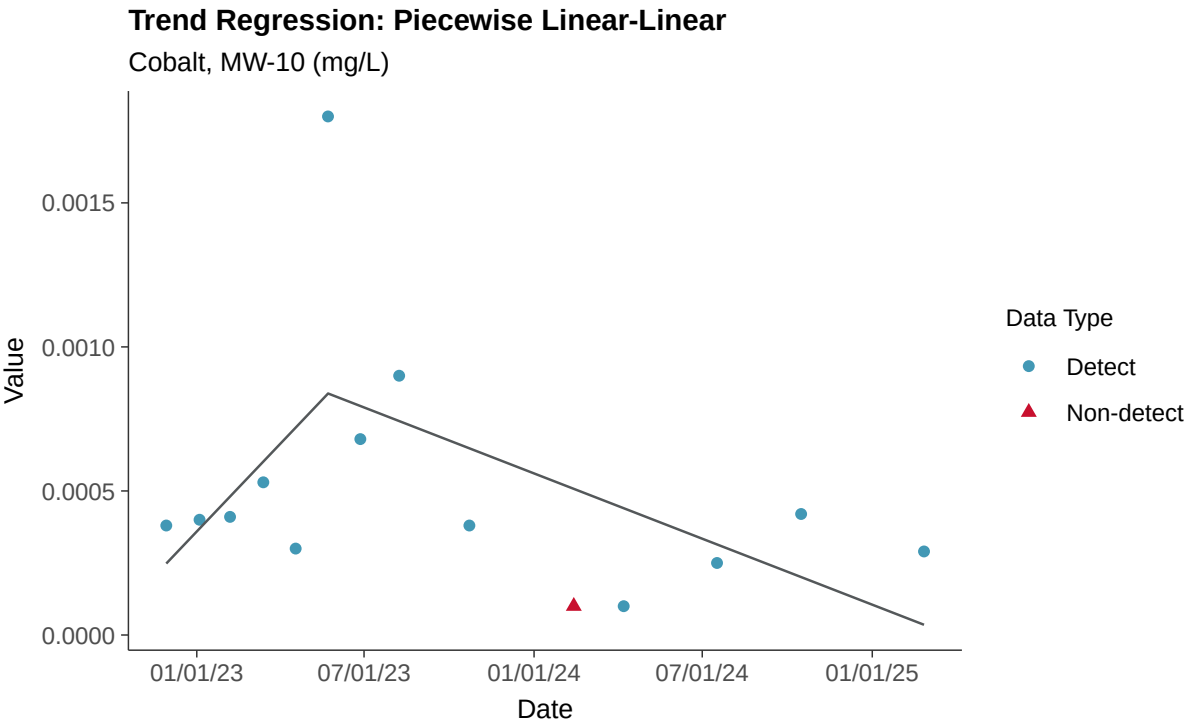
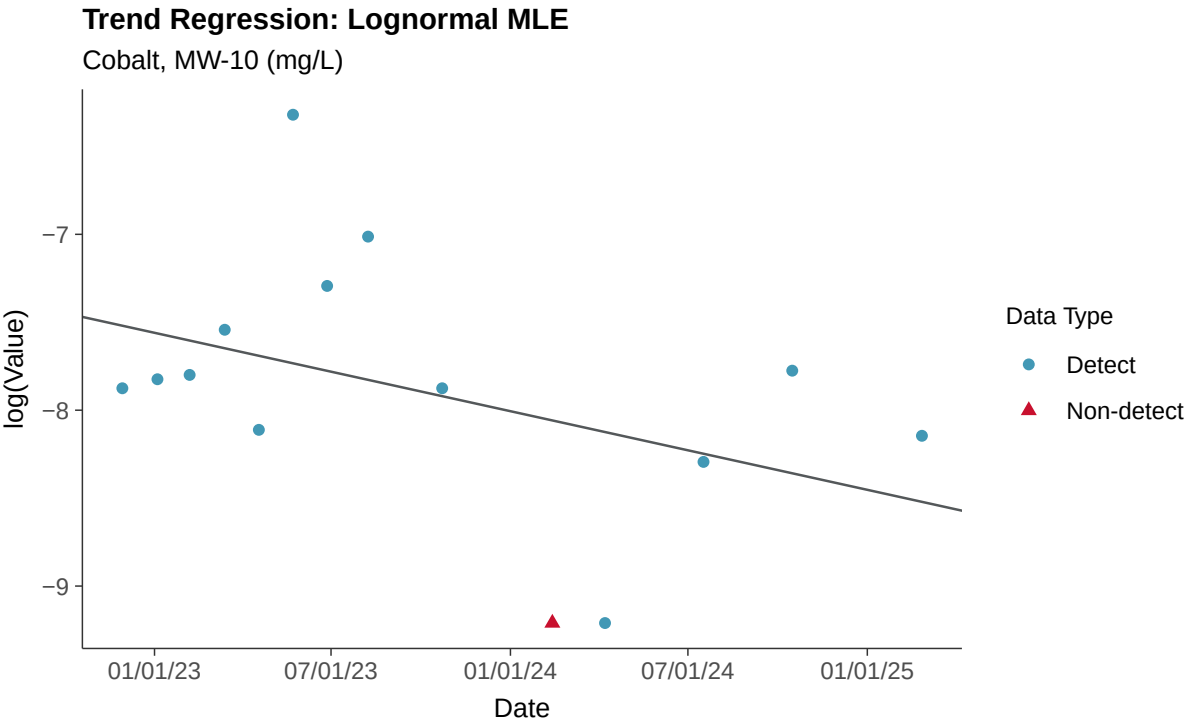
Cobalt, MW-10 (mg/L)

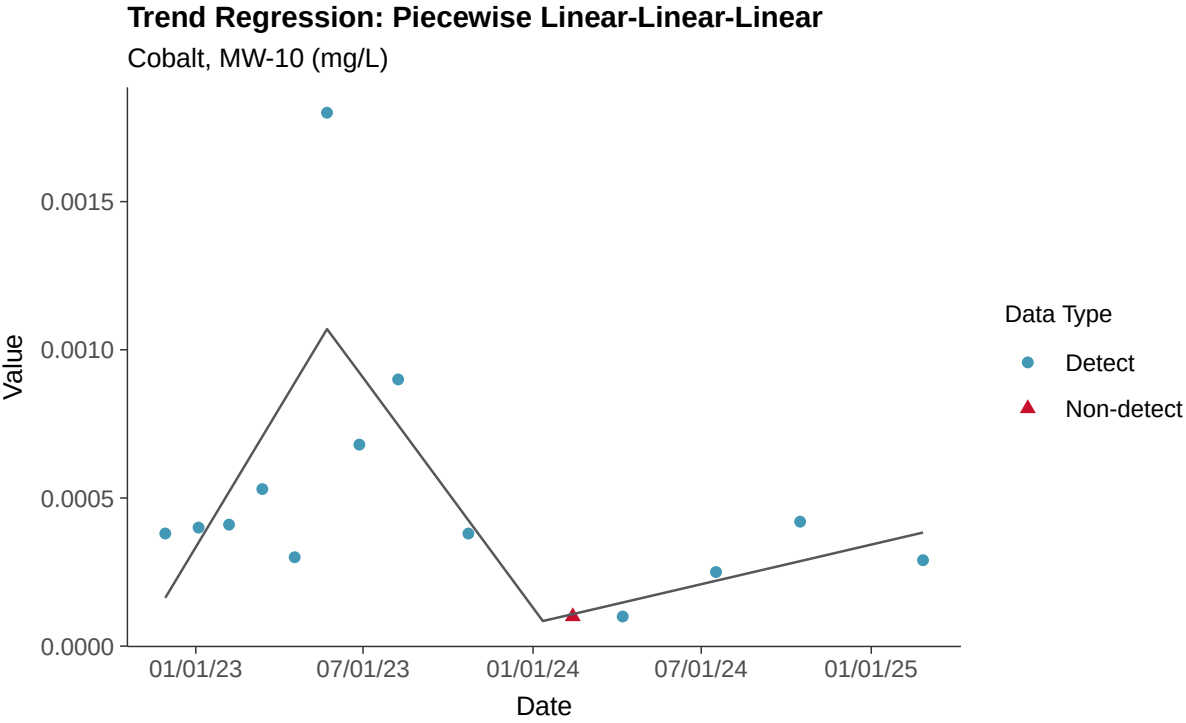


Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-10 (mg/L)



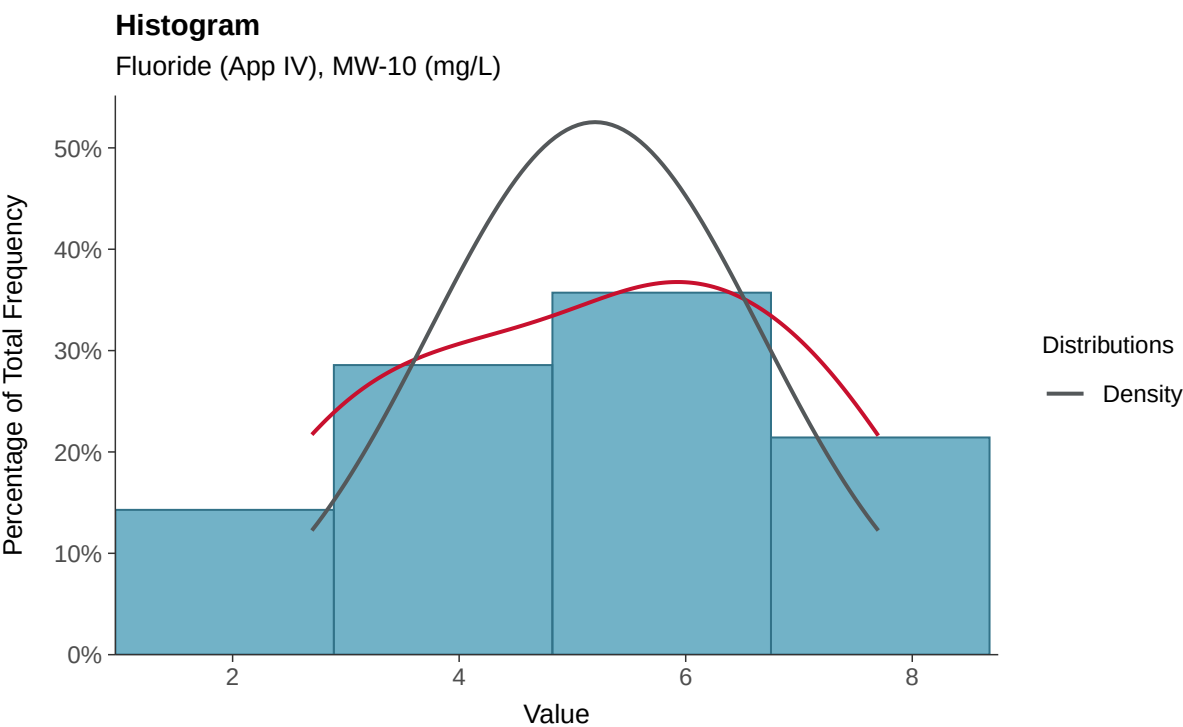
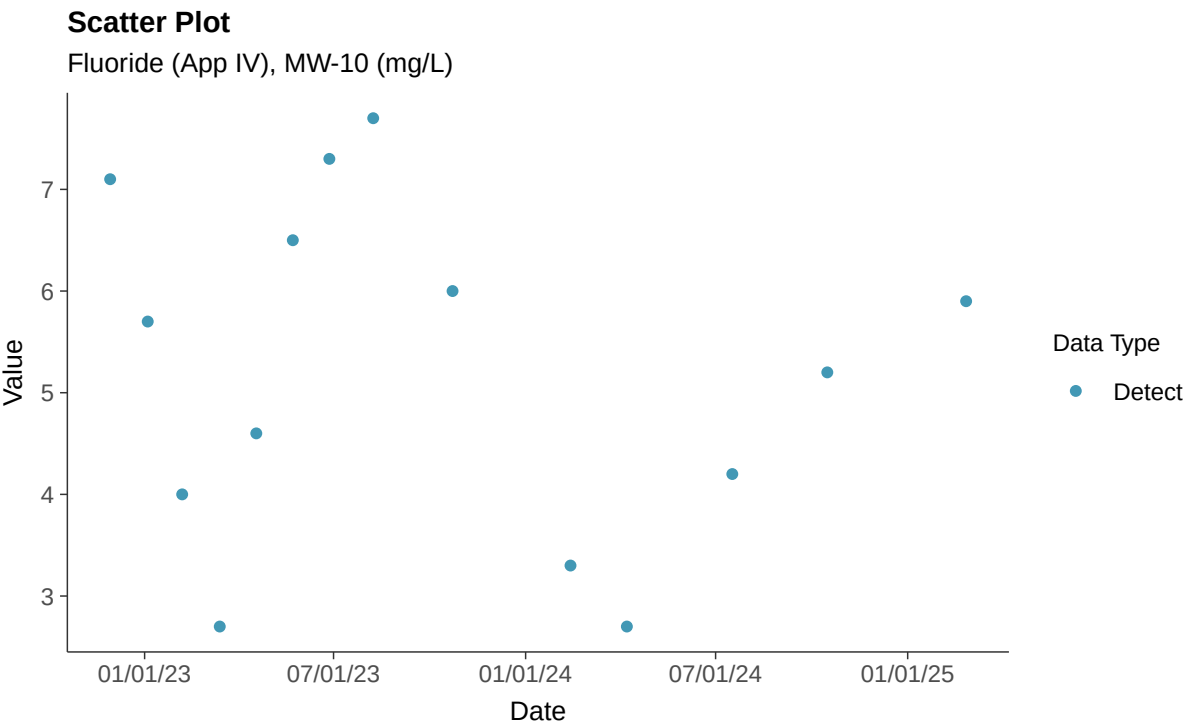






Appendix IV: Fluoride (App IV), MW-10

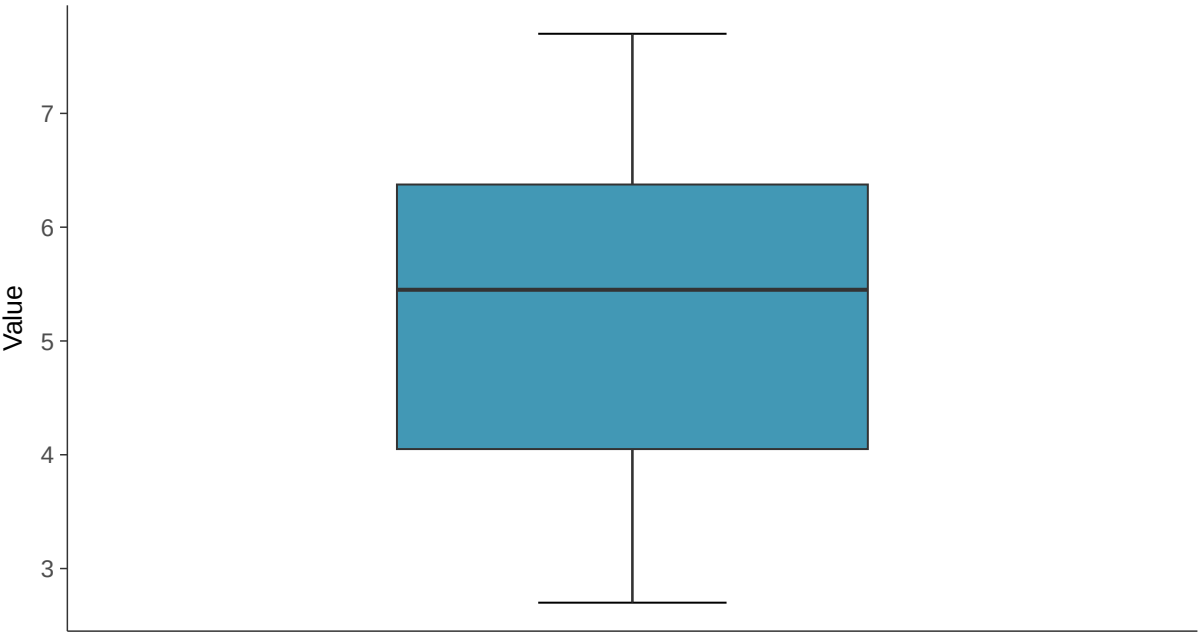
ID: 20_3_4_113





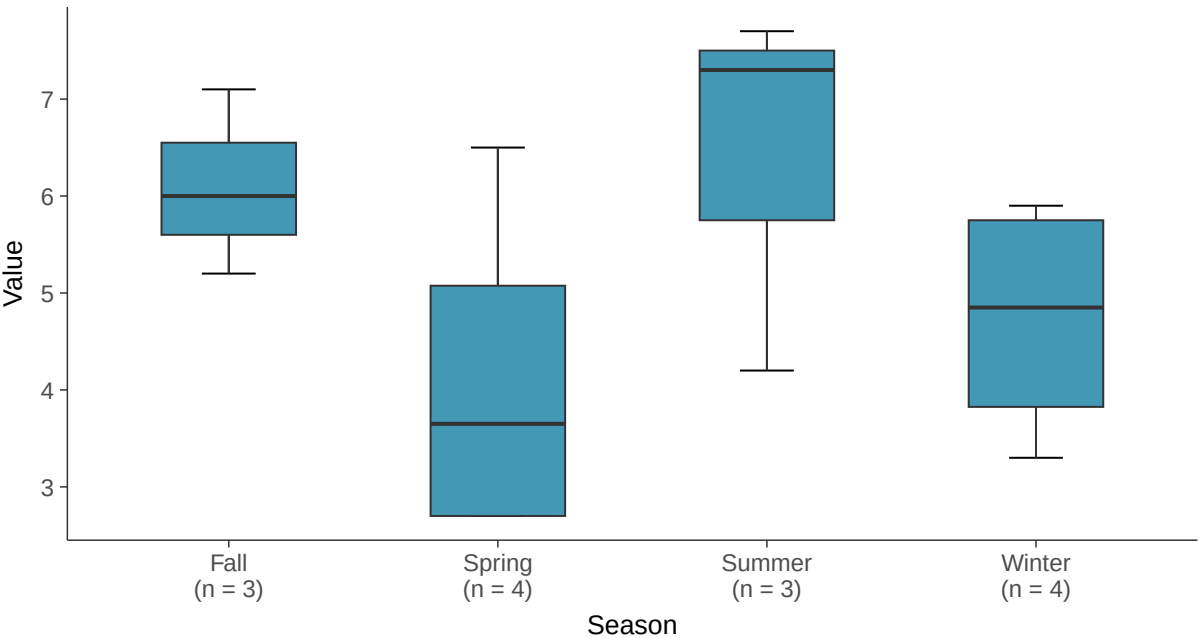
Boxplot

Fluoride (App IV), MW-10 (mg/L)



Boxplot by Season

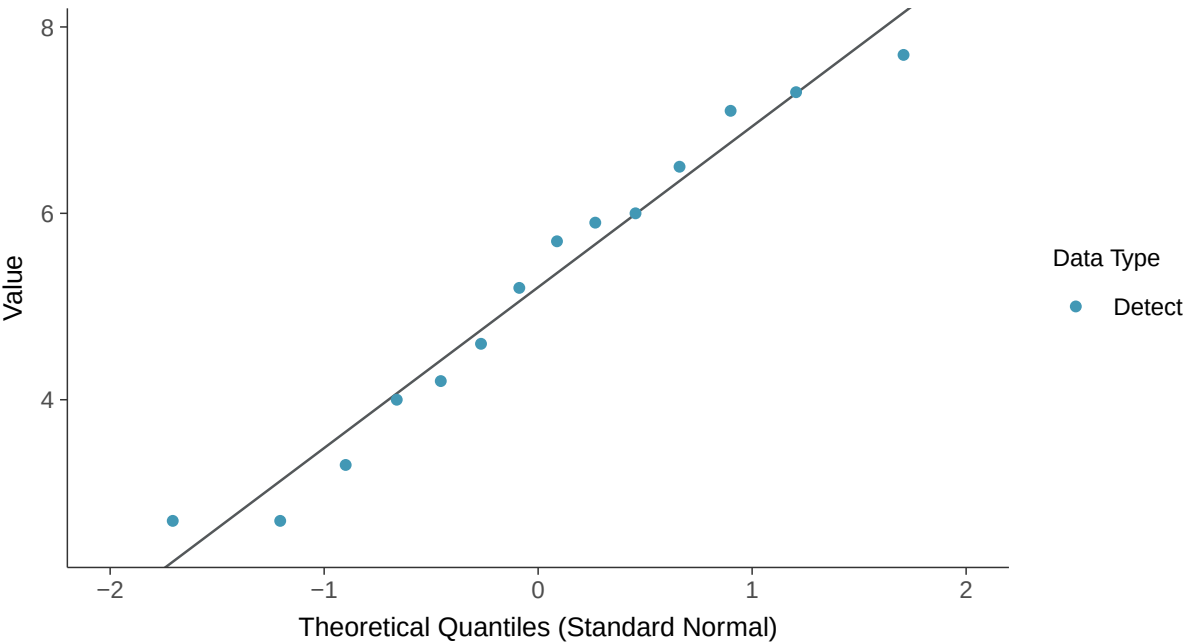
Fluoride (App IV), MW-10 (mg/L)





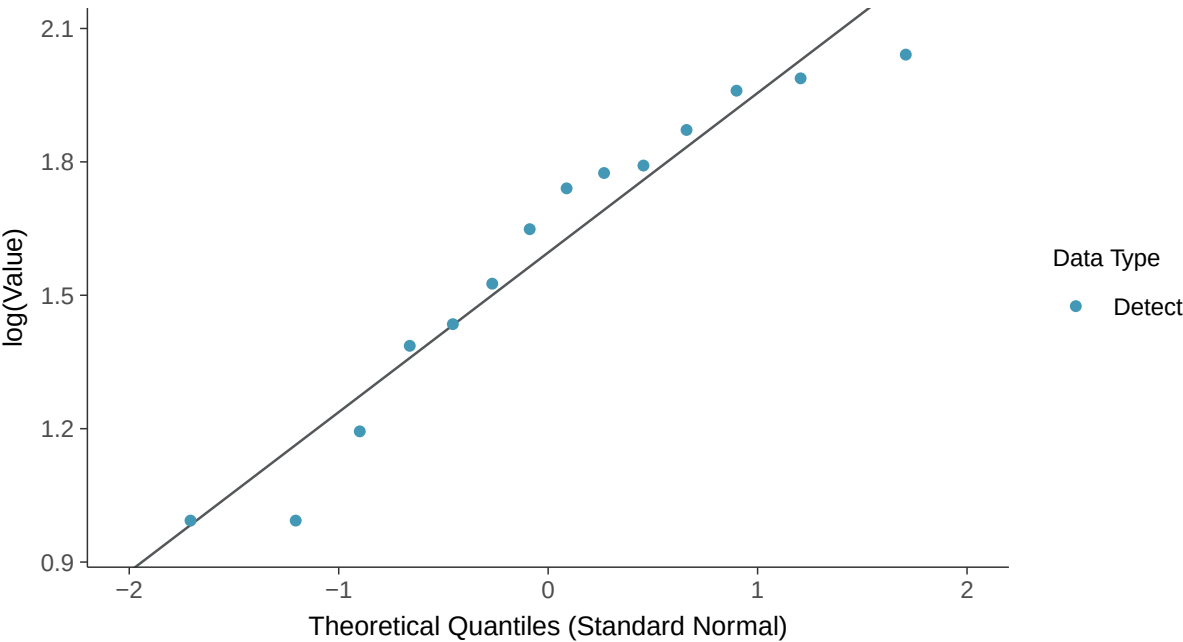
Normal Q-Q plot

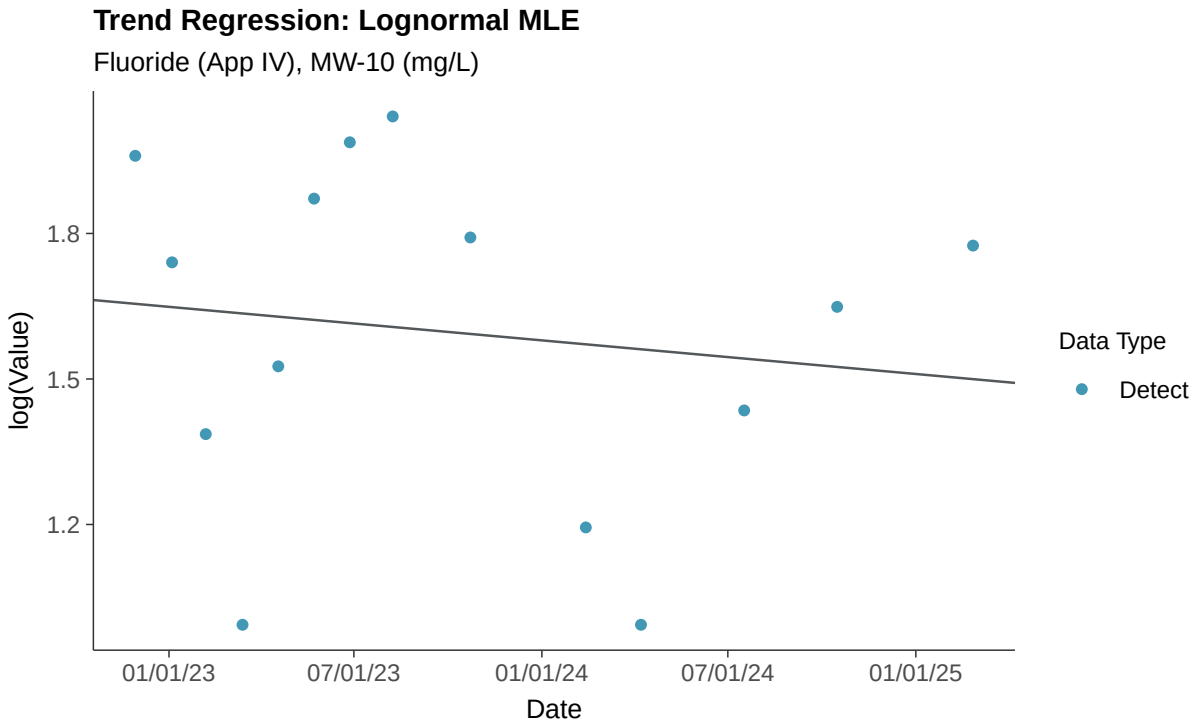
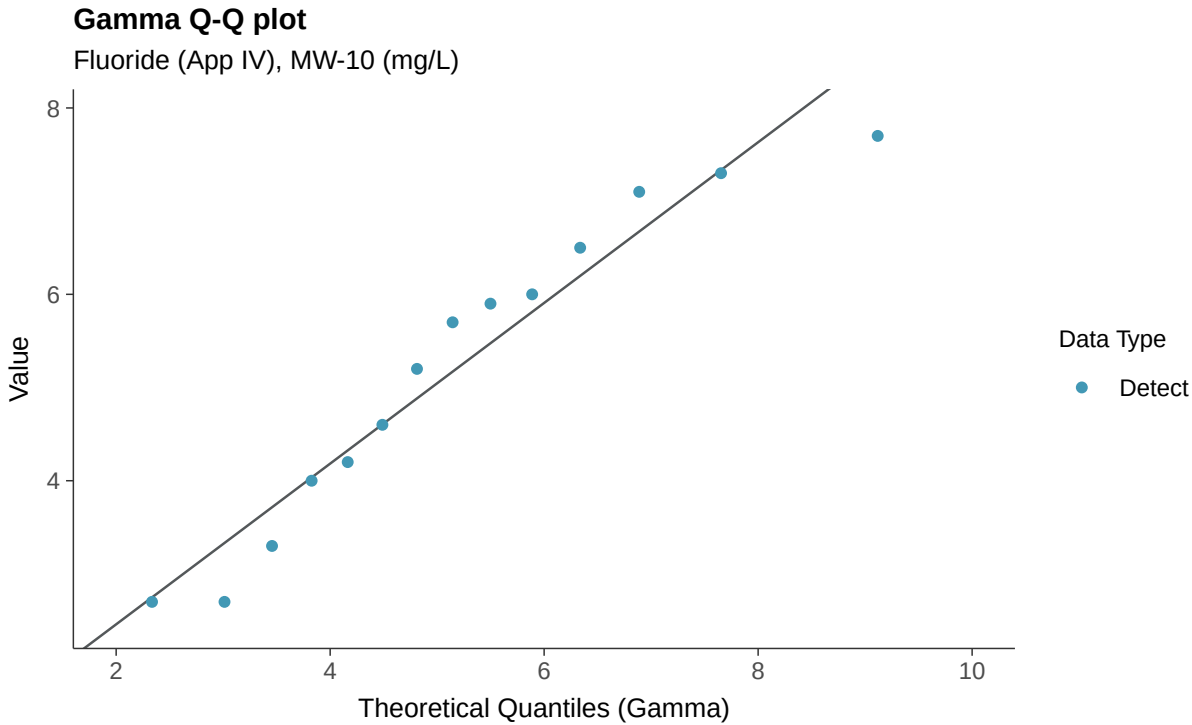
Fluoride (App IV), MW-10 (mg/L)



Lognormal Q-Q plot

Fluoride (App IV), MW-10 (mg/L)

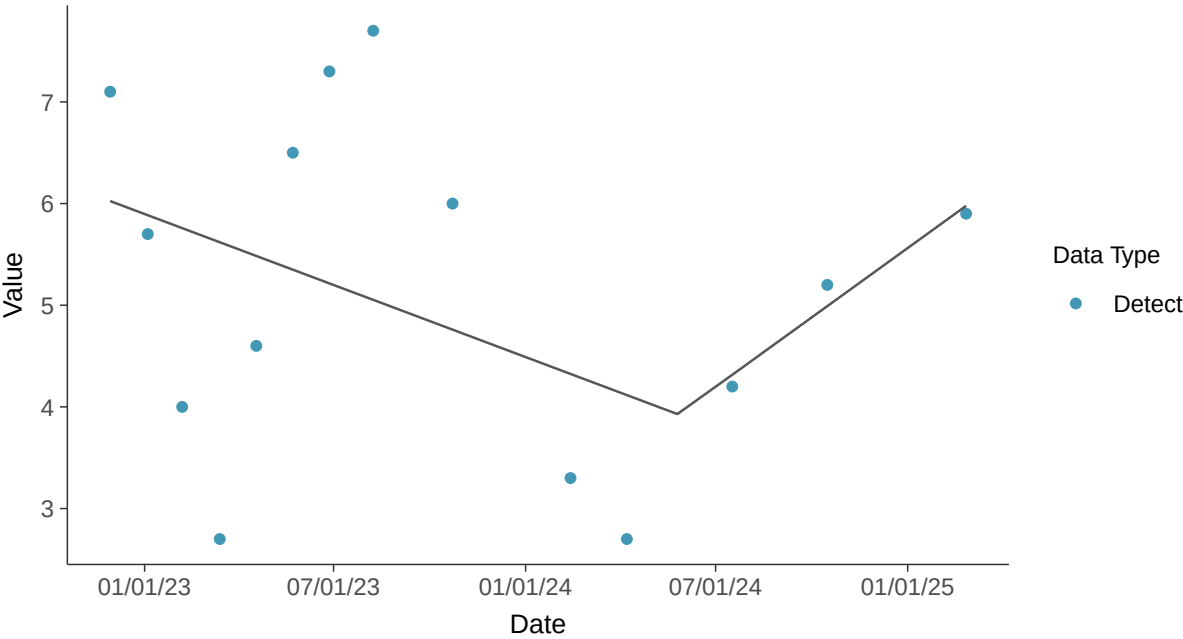






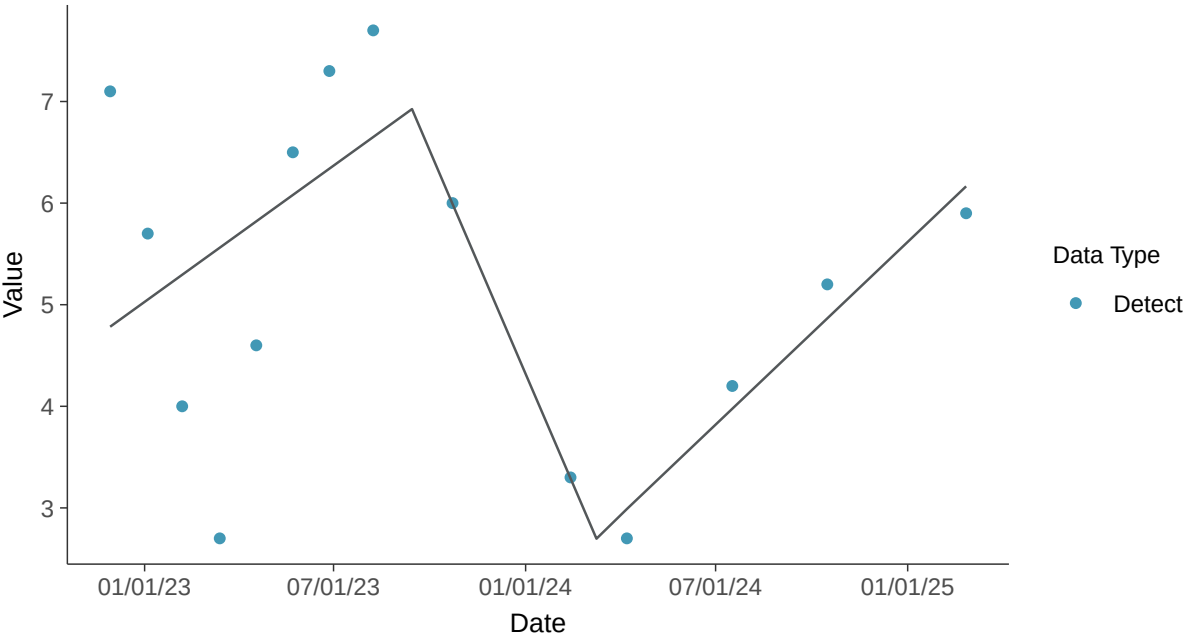
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

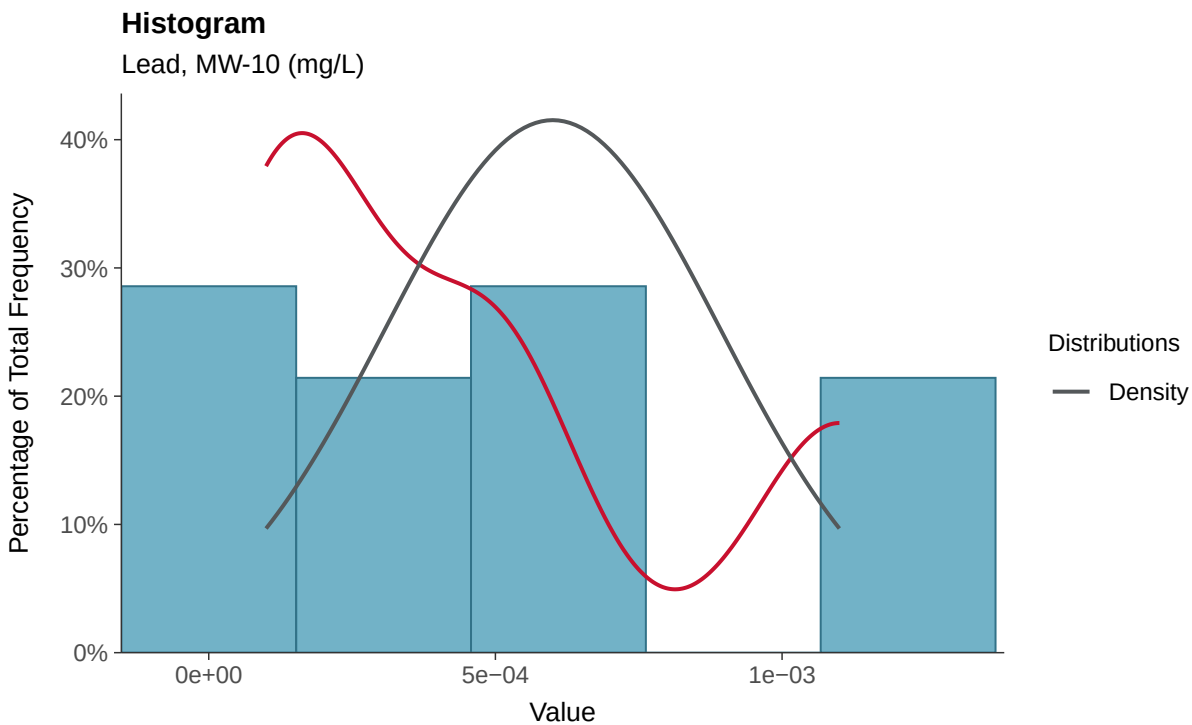
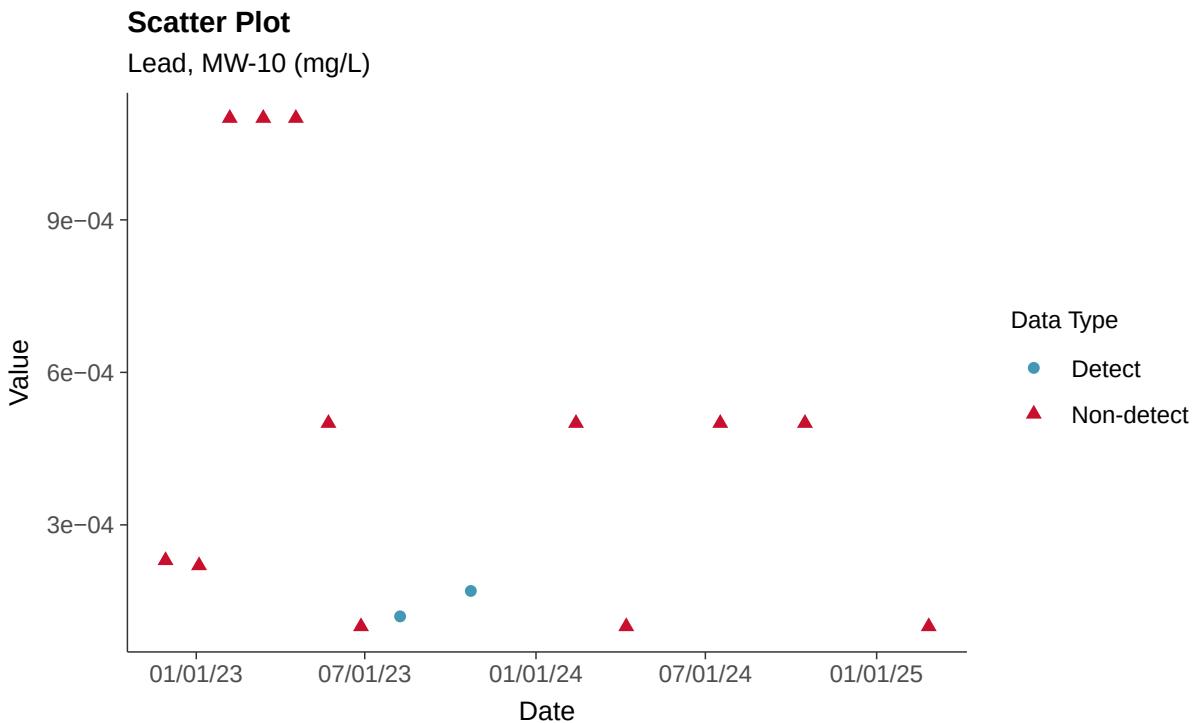
Fluoride (App IV), MW-10 (mg/L)

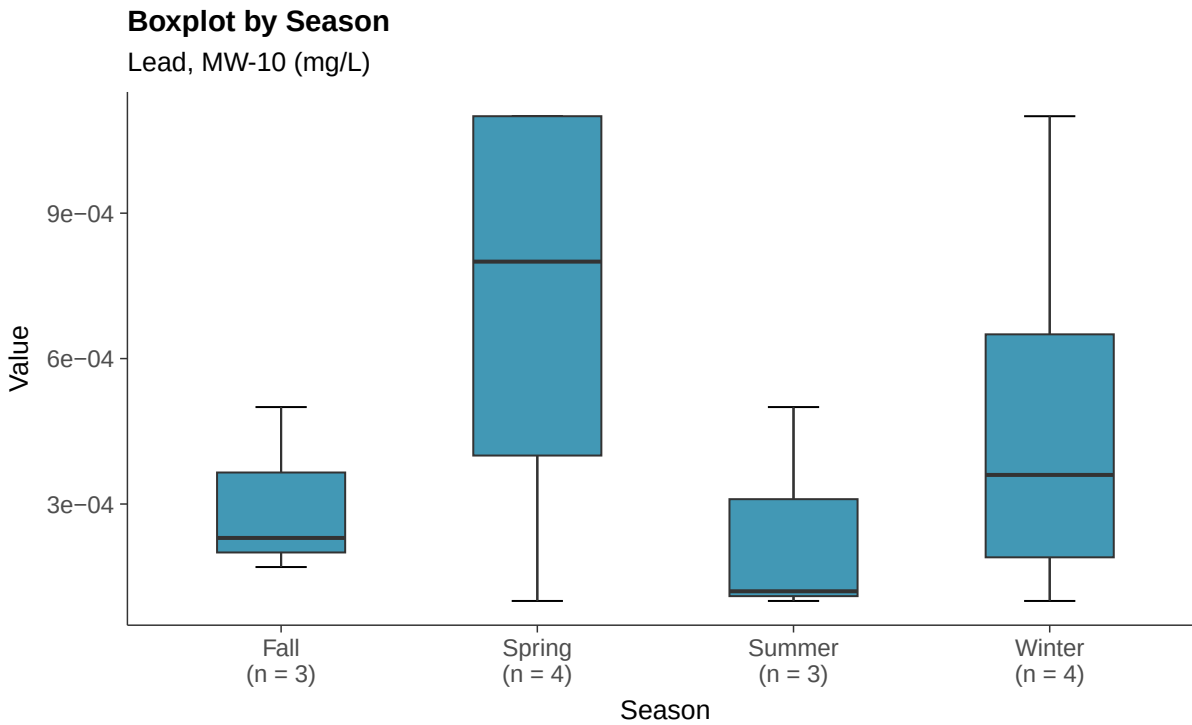
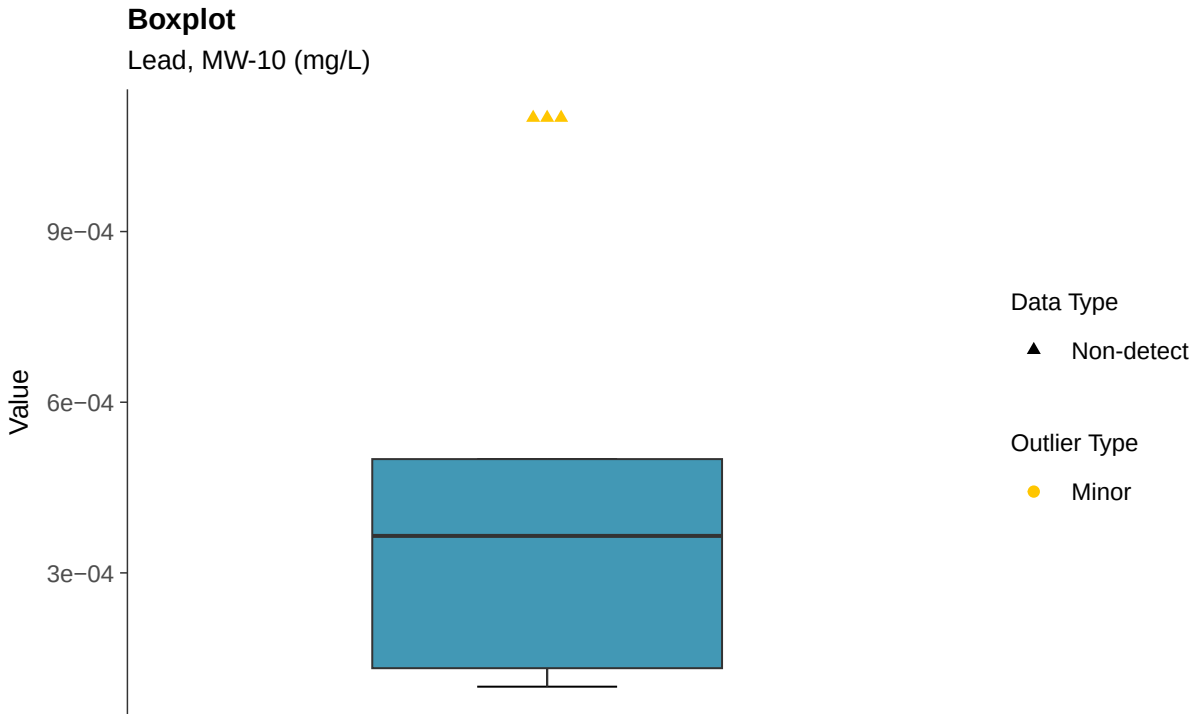




Appendix IV: Lead, MW-10

ID: 20_3_4_115

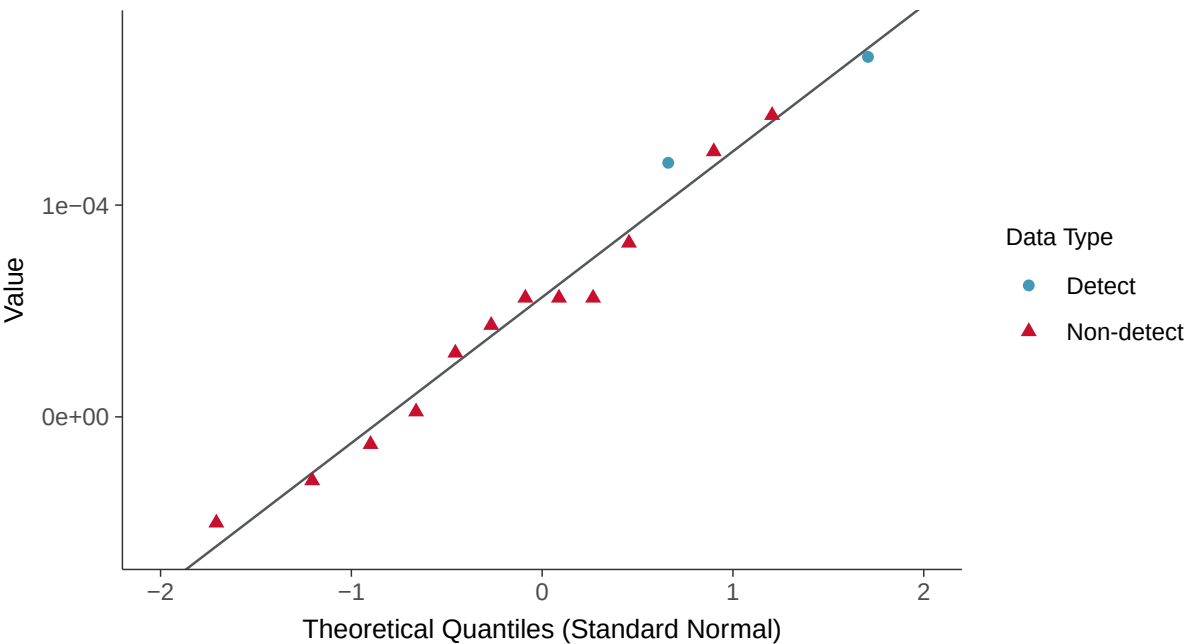






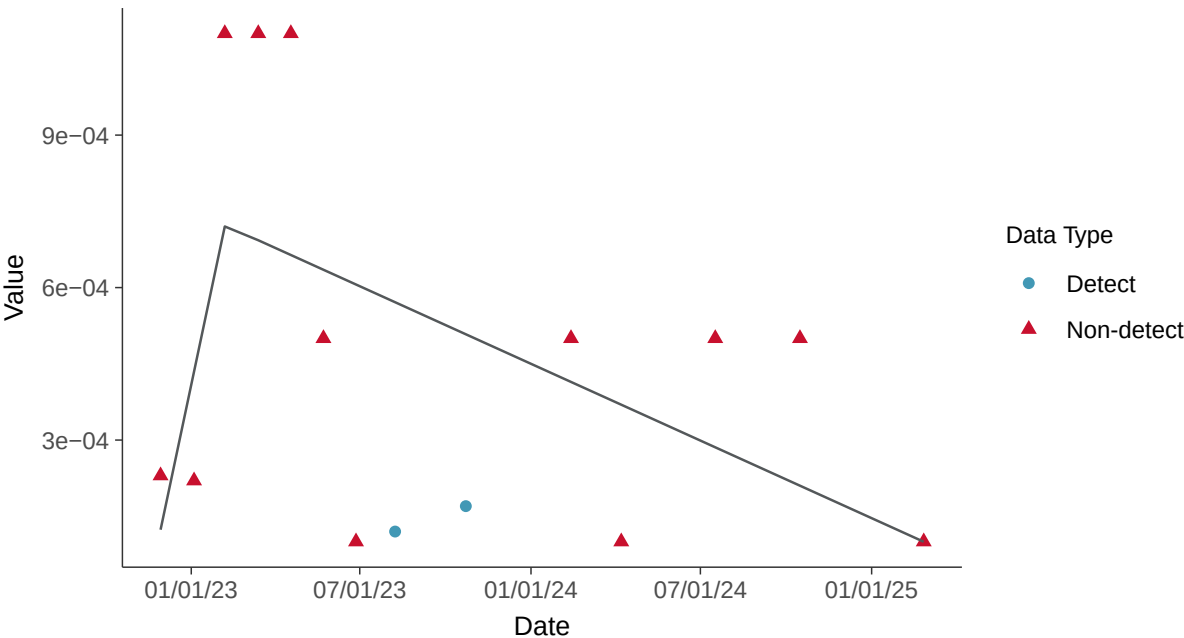
Normal Q-Q plot using ROS Imputed Estimates

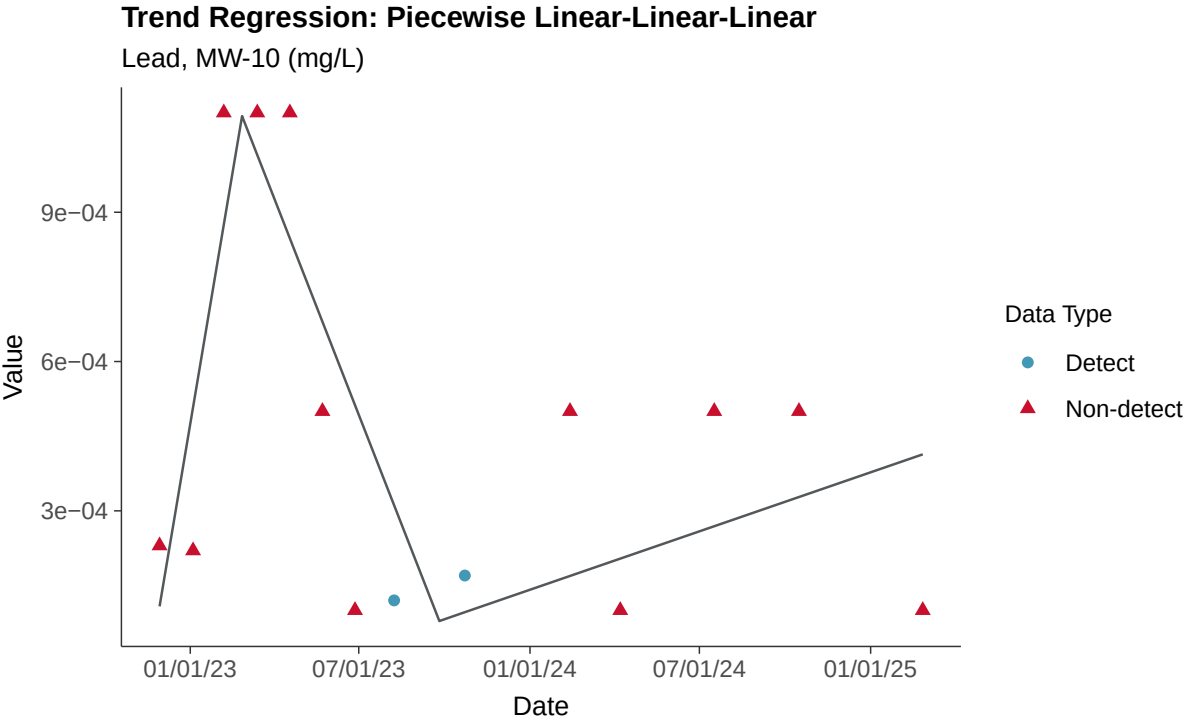
Lead, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Lead, MW-10 (mg/L)

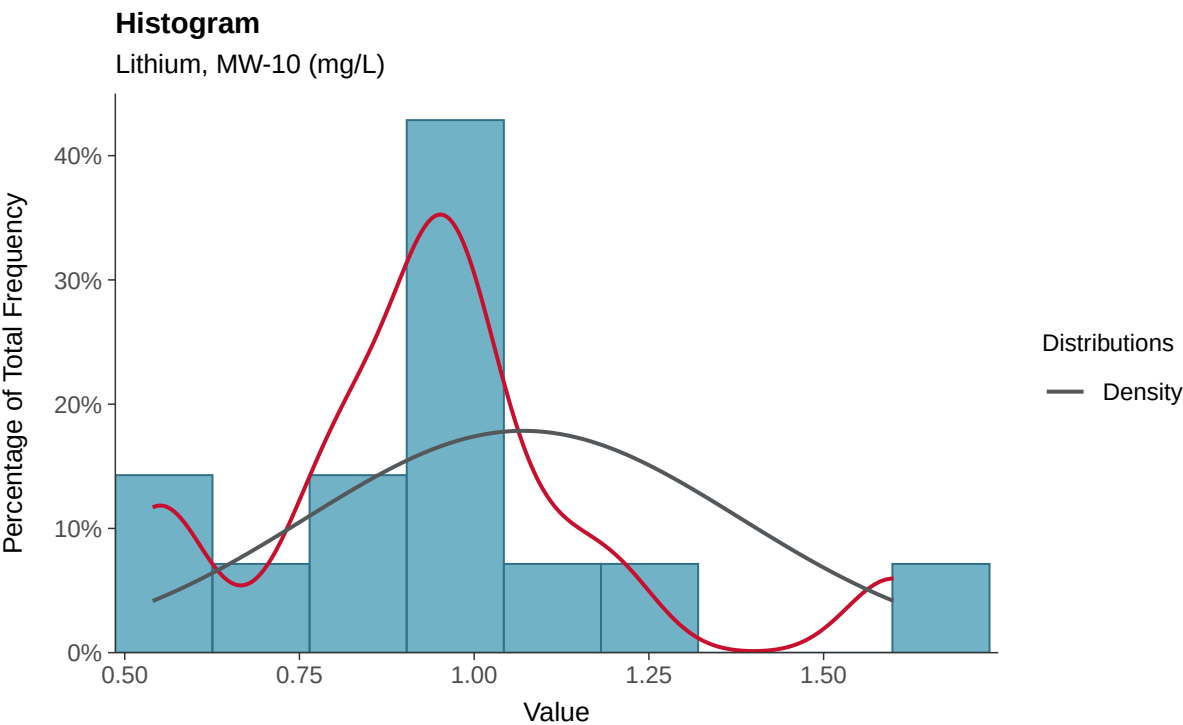
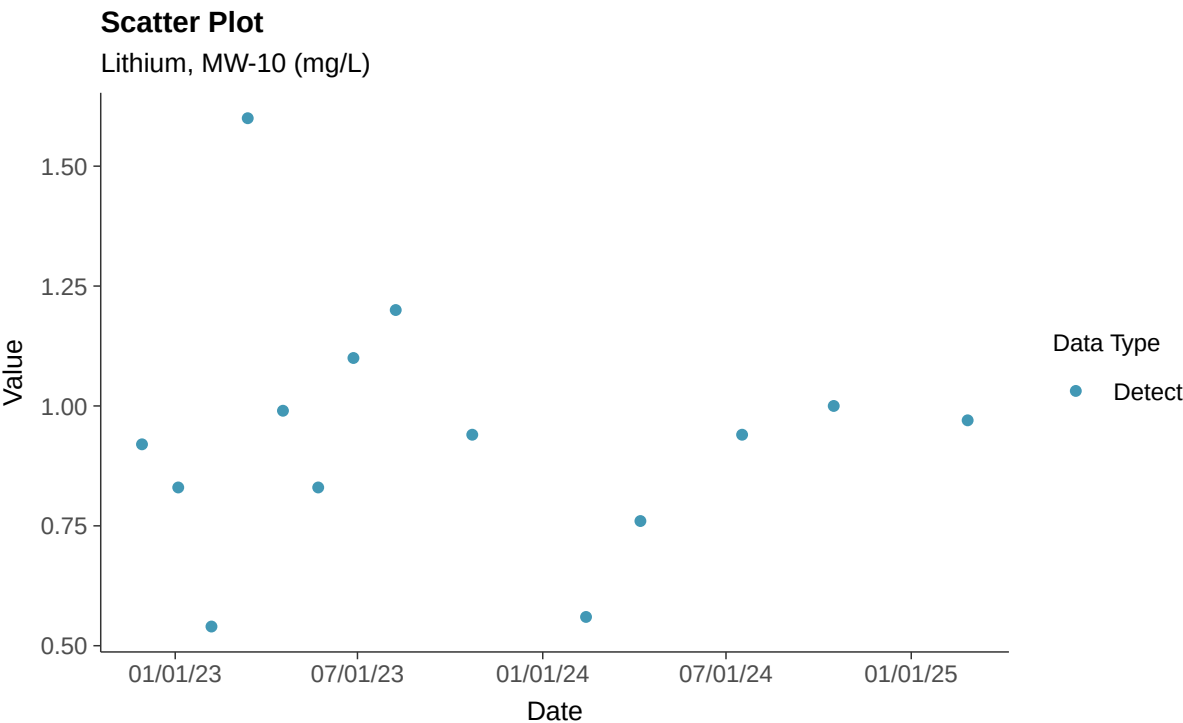


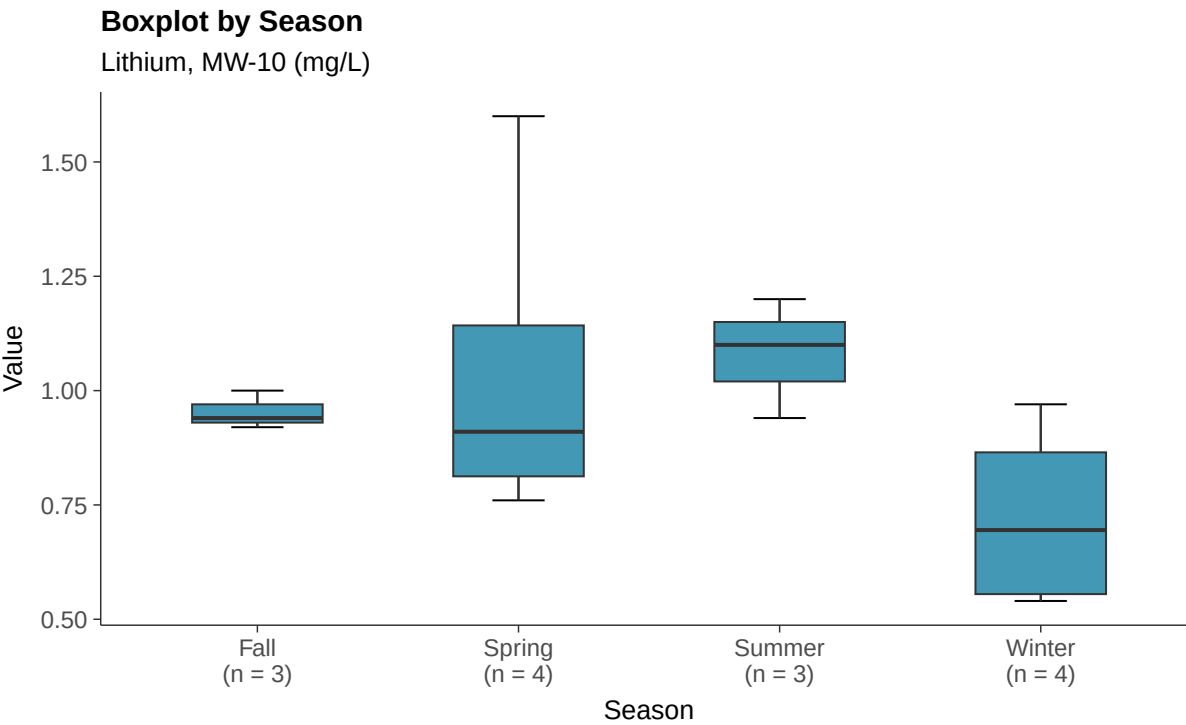
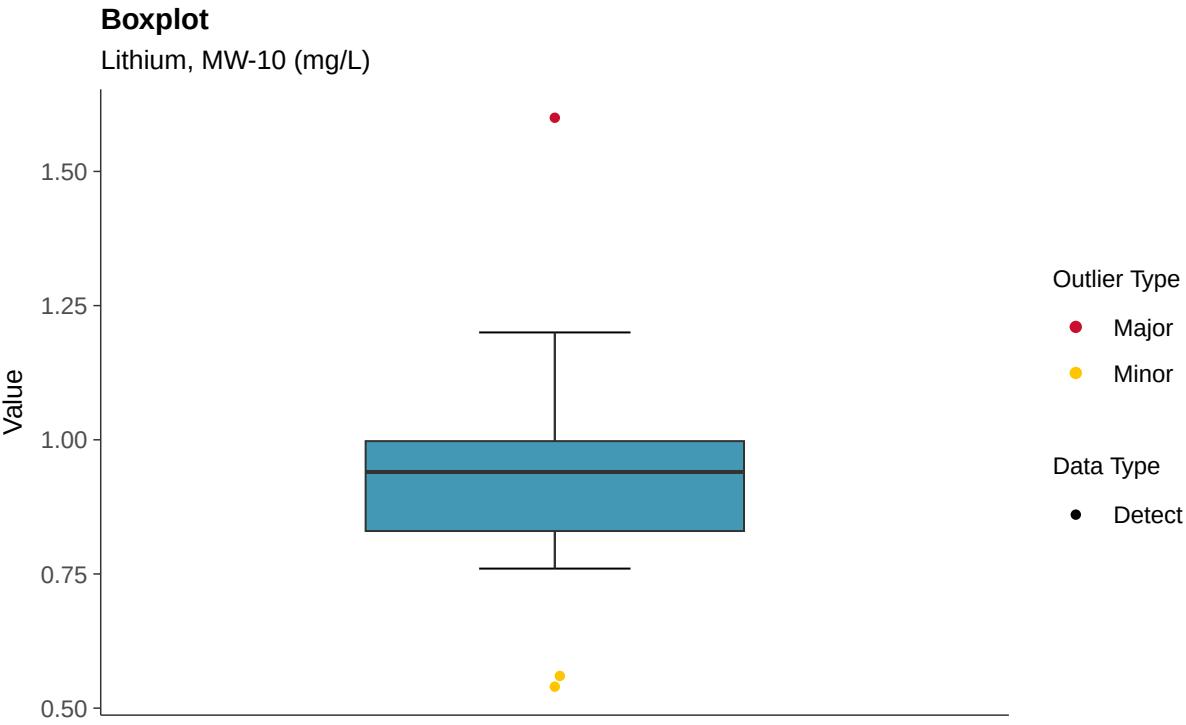


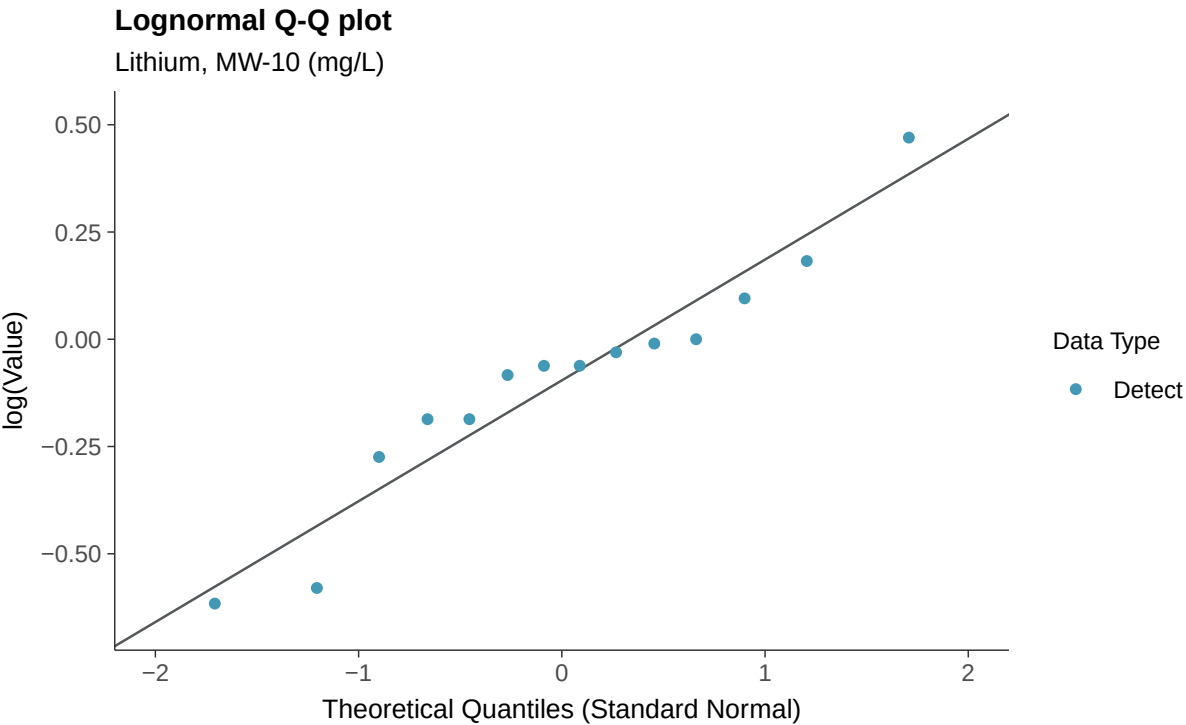
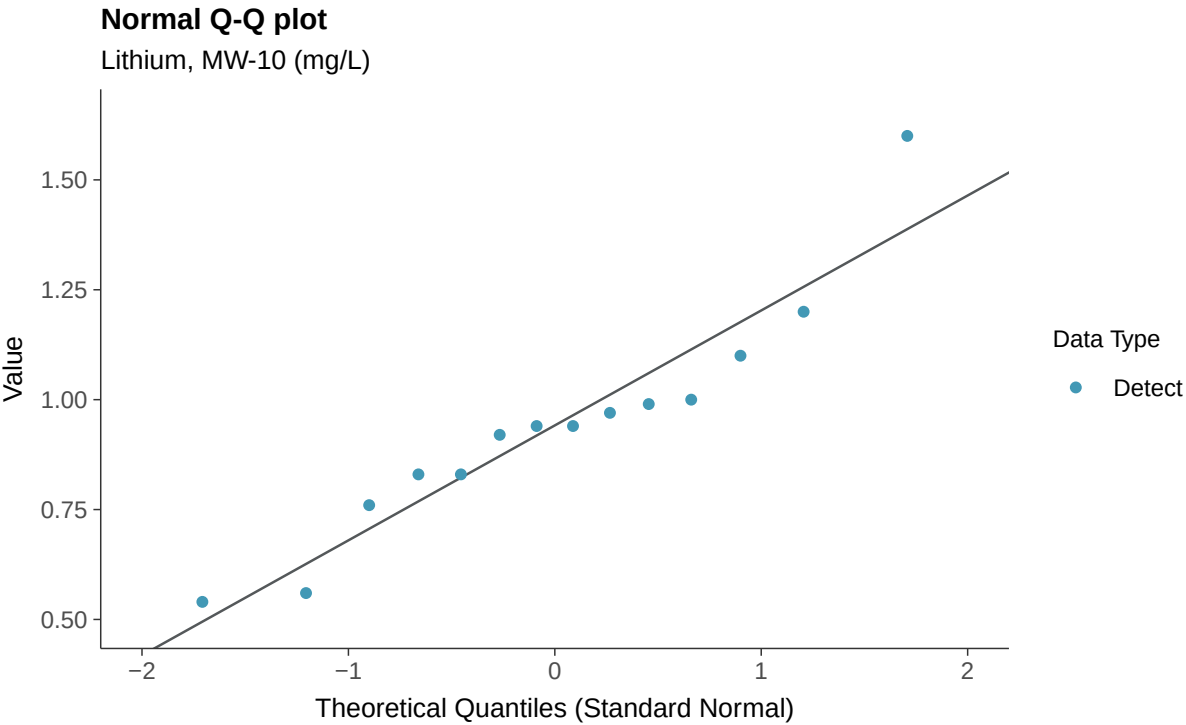


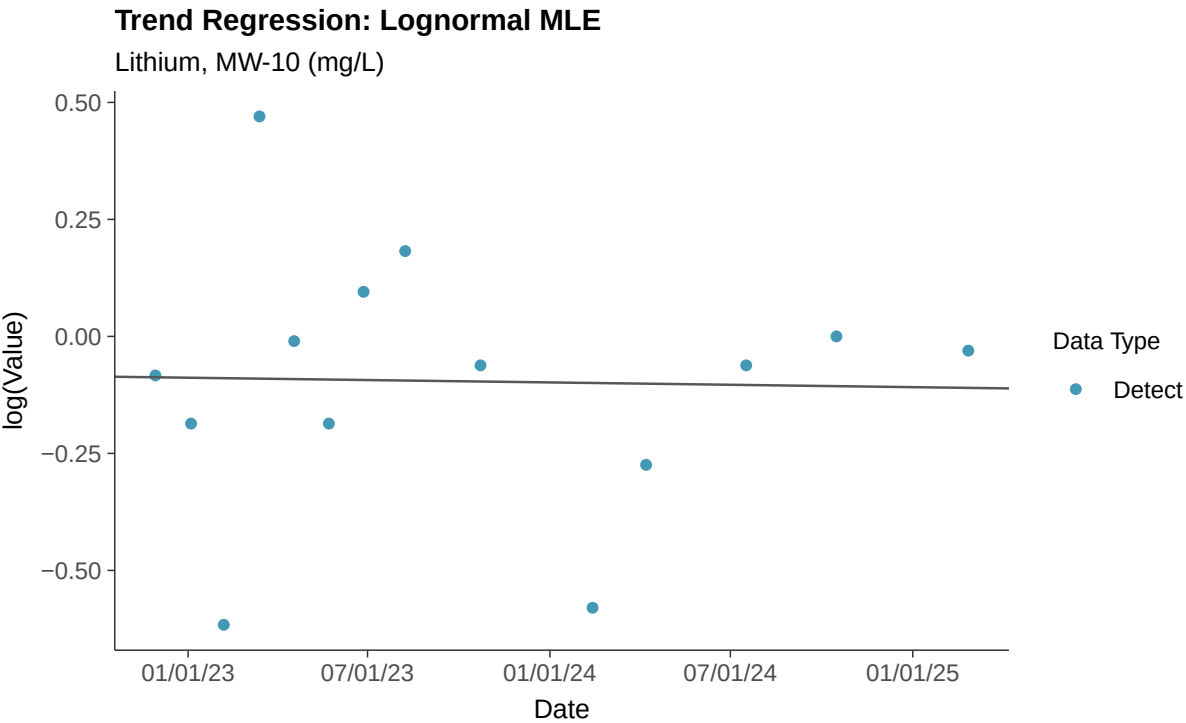
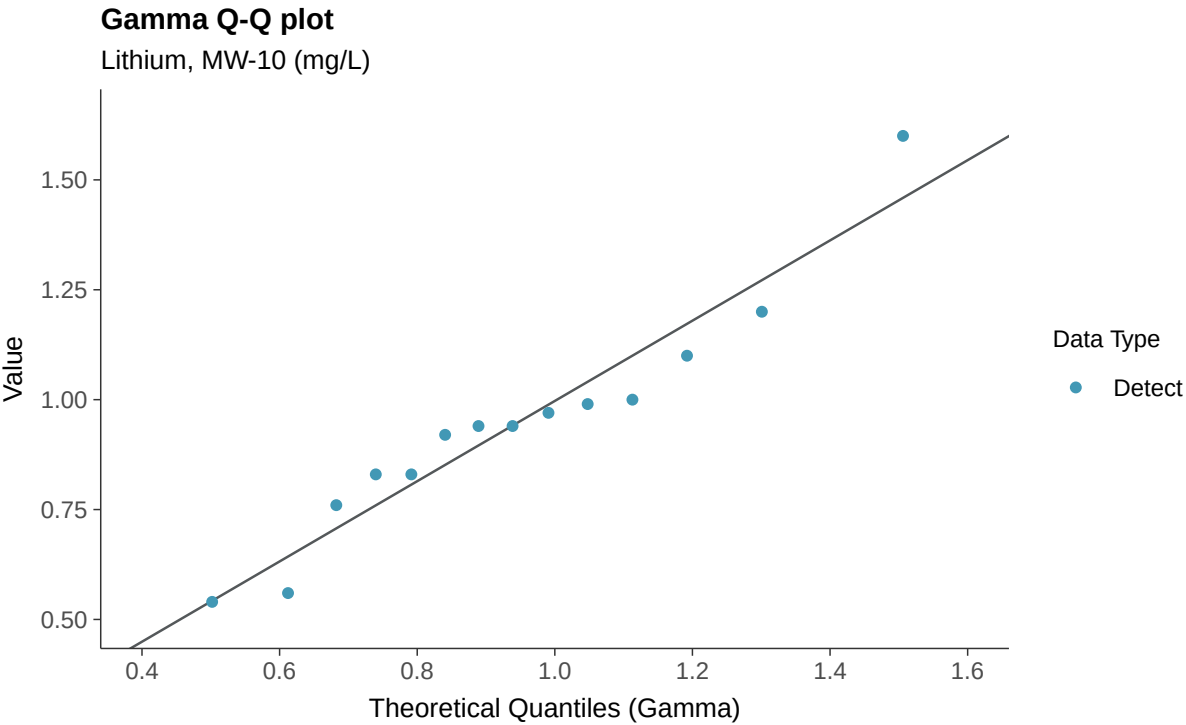
Appendix IV: Lithium, MW-10

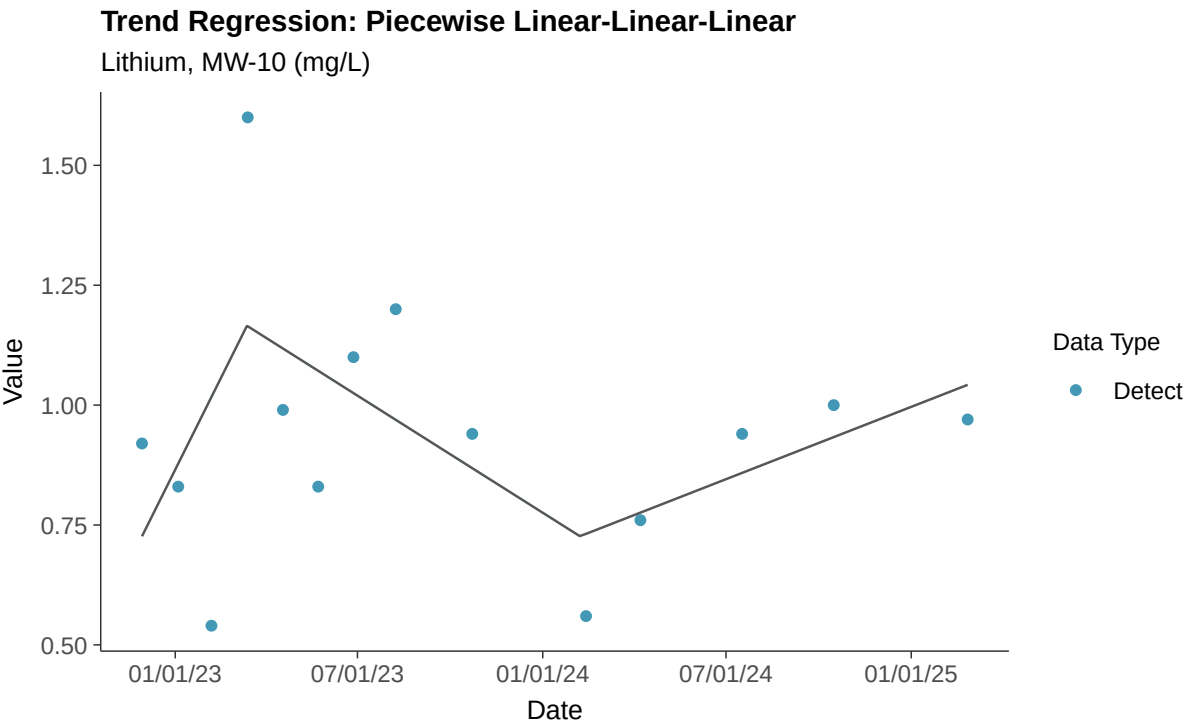
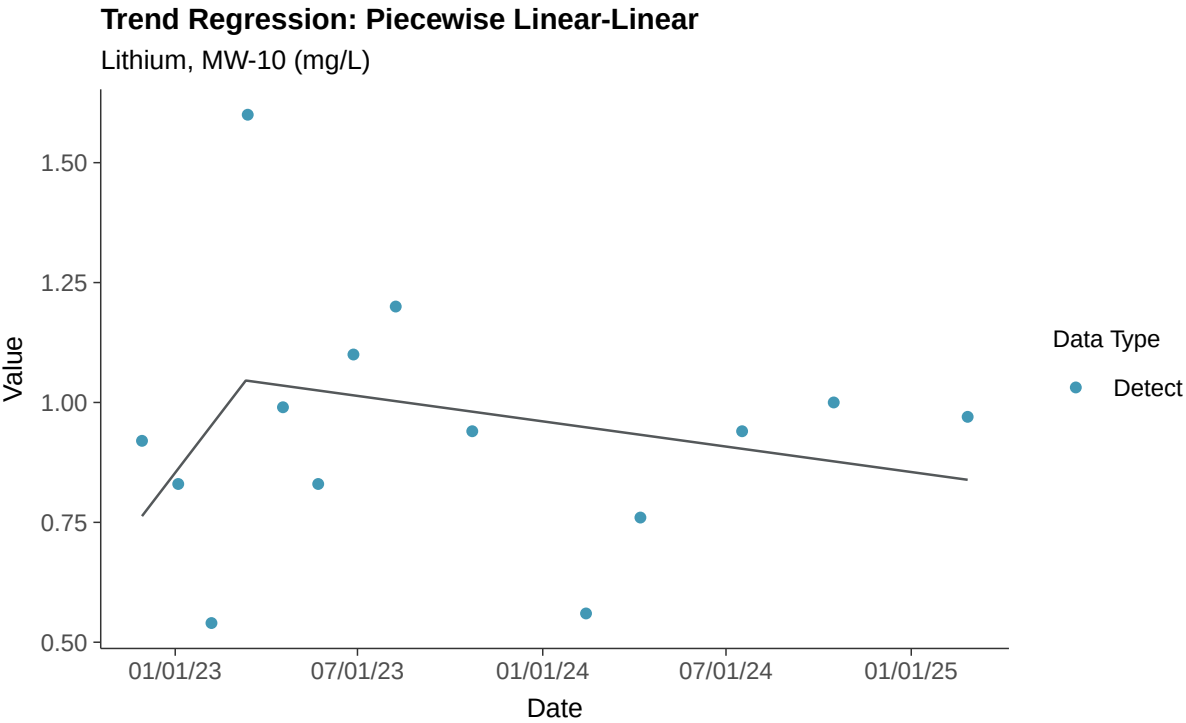
ID: 20_3_4_116







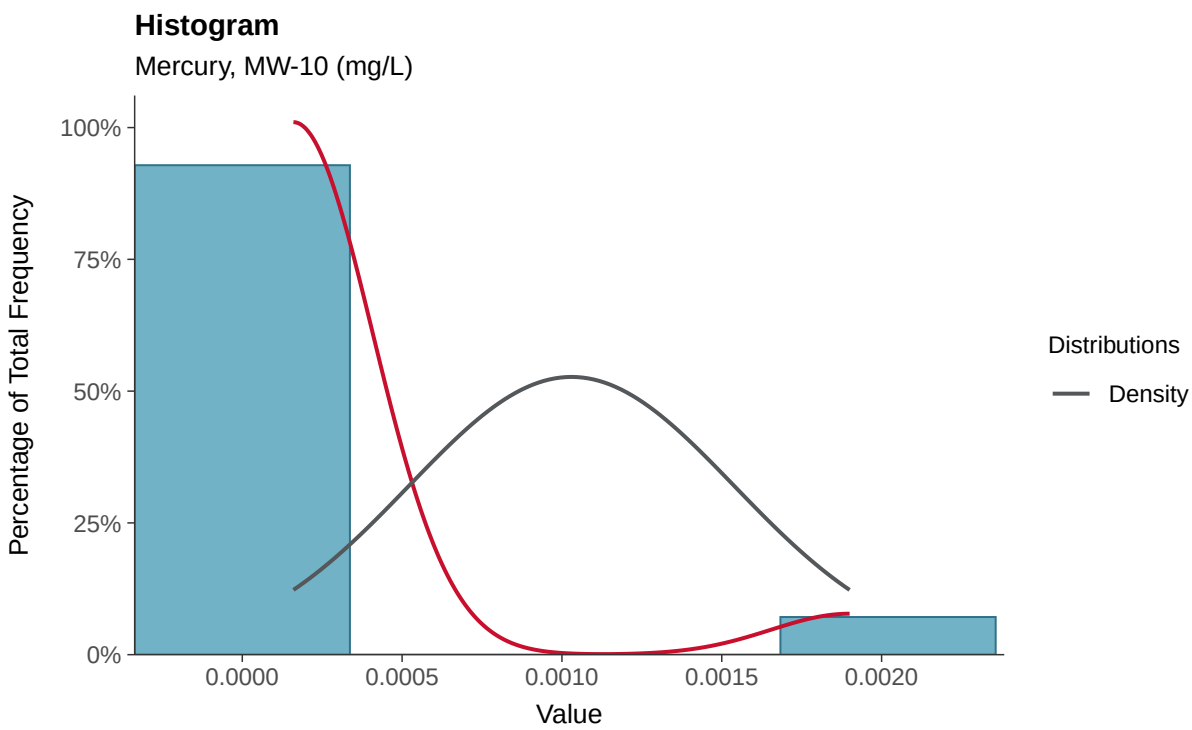
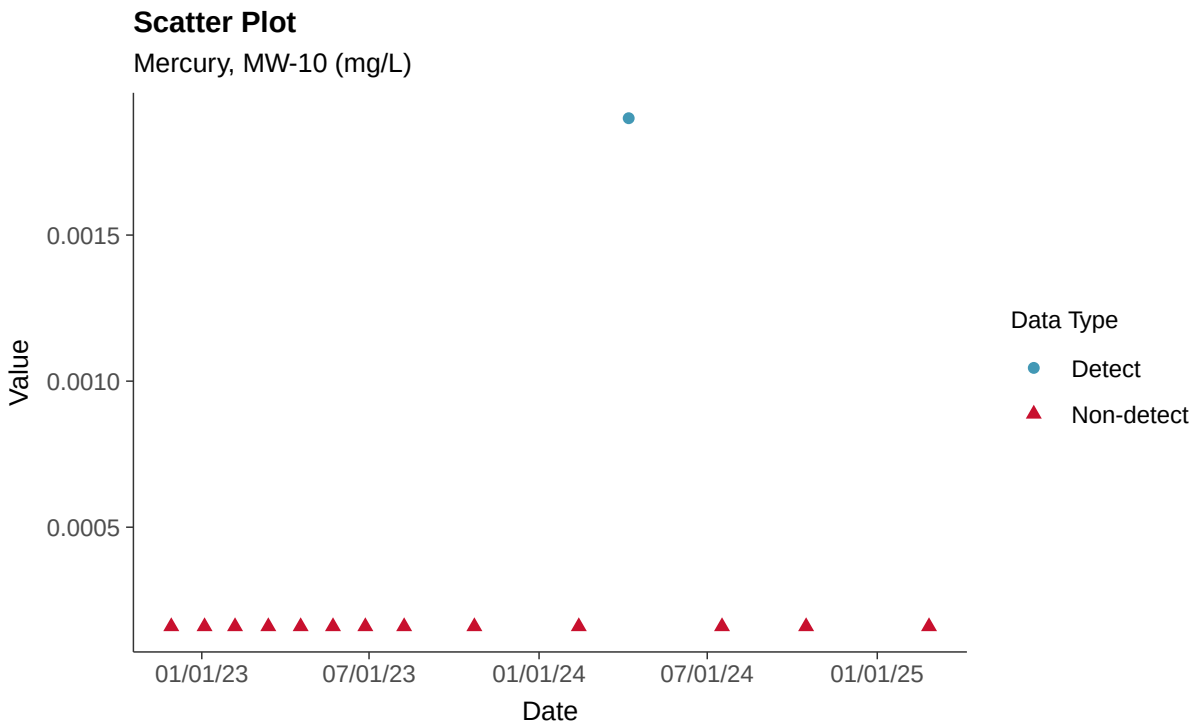


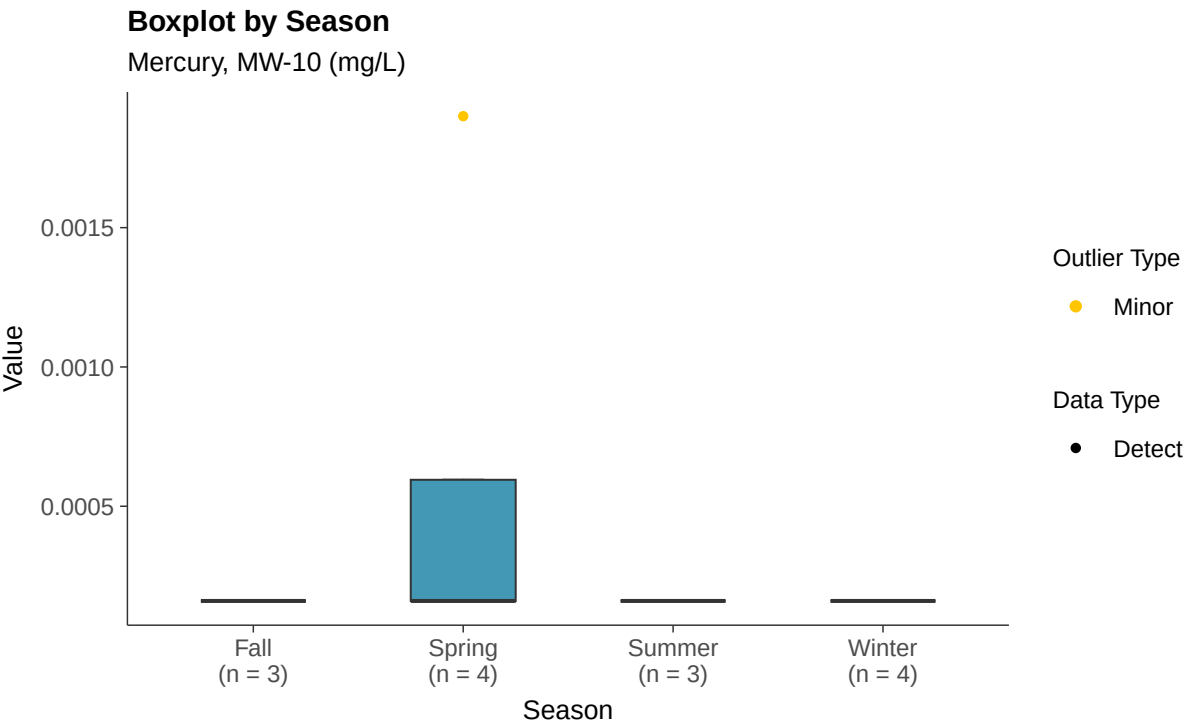
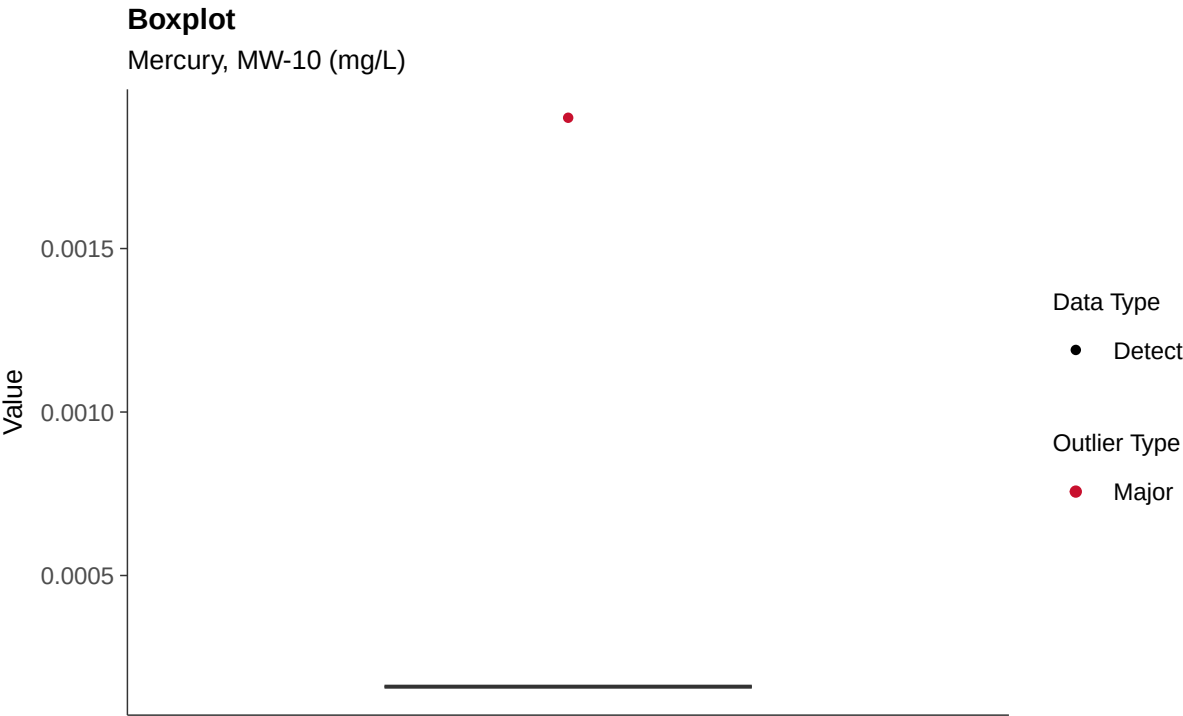


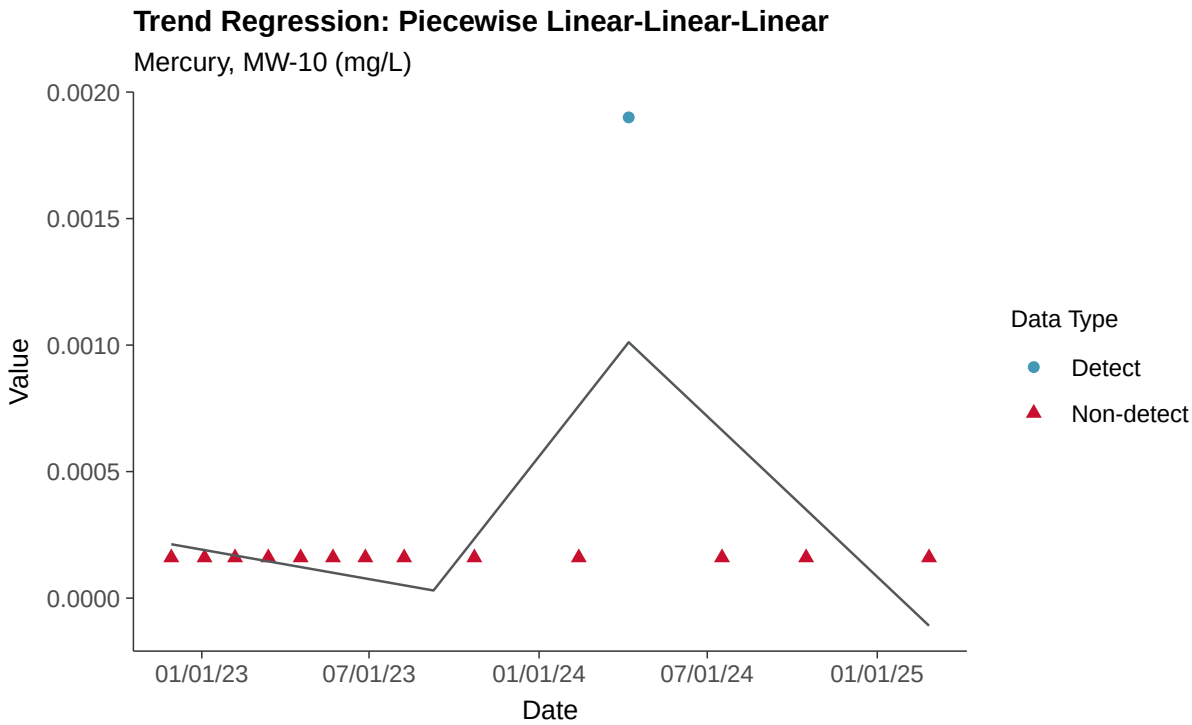
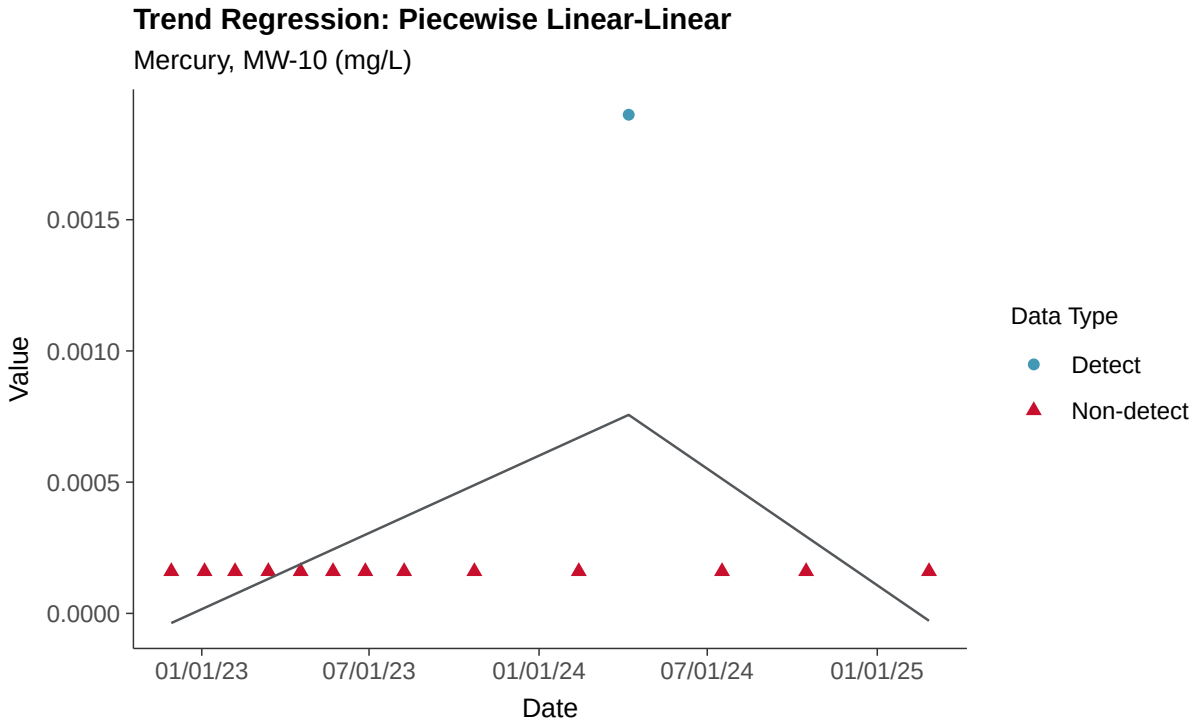


Appendix IV: Mercury, MW-10

ID: 20_3_4_117



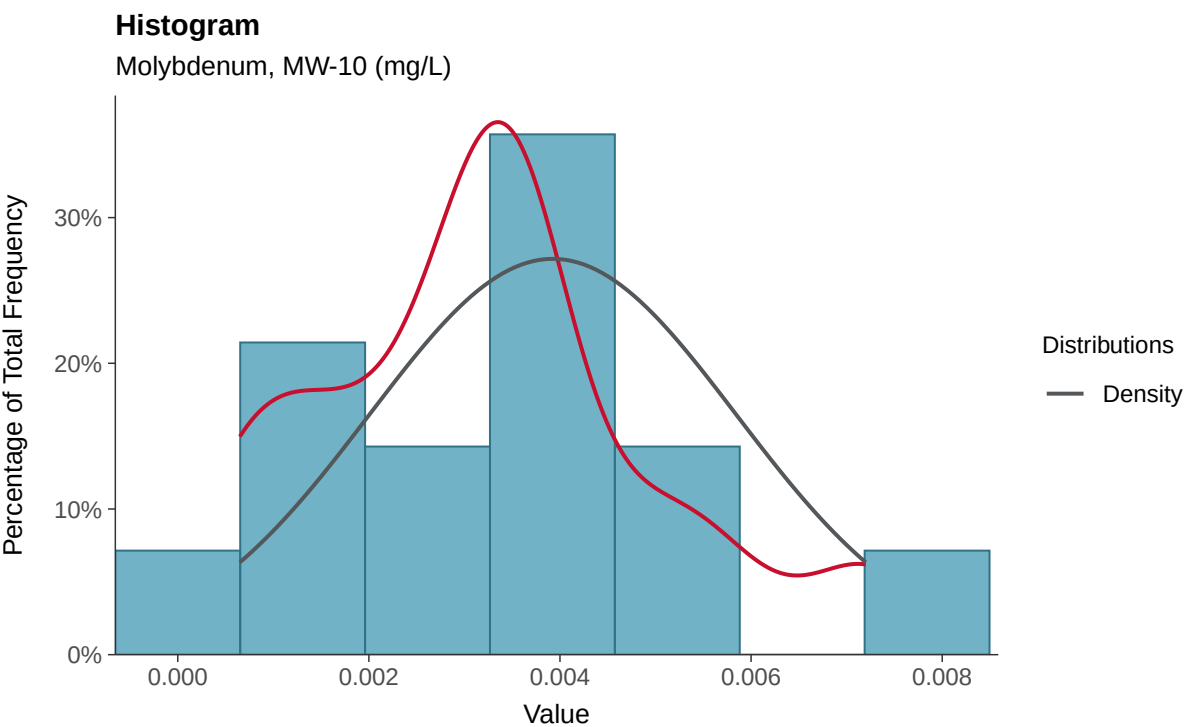
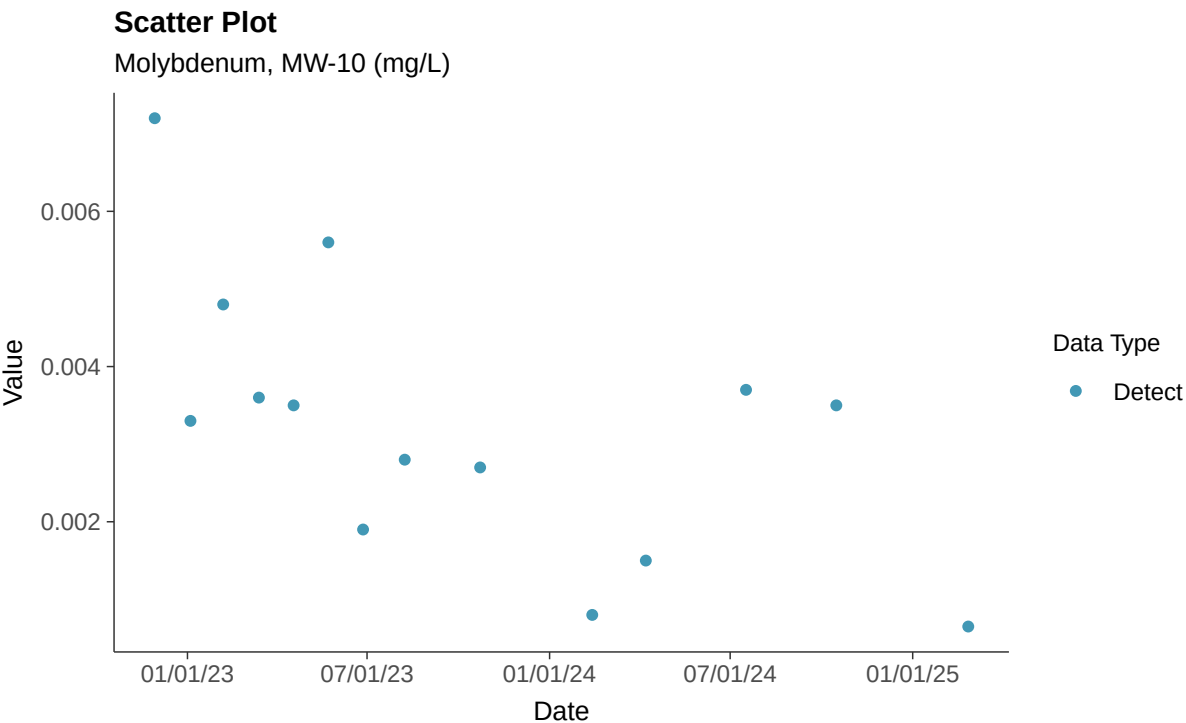


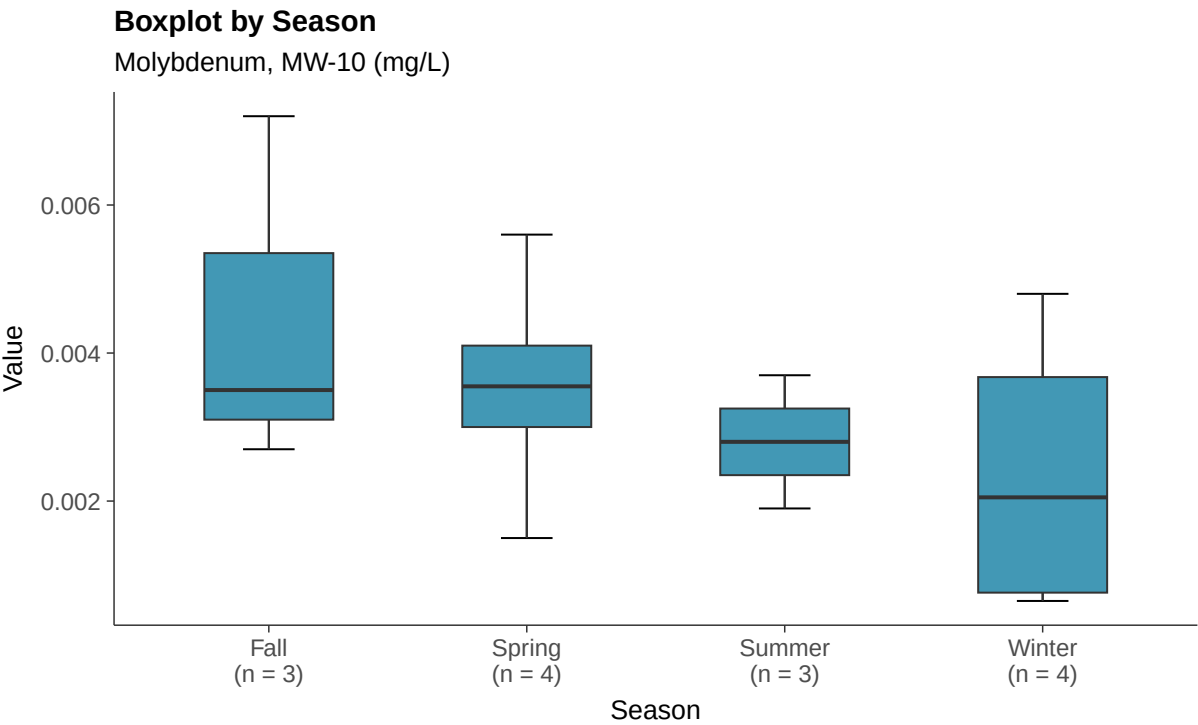
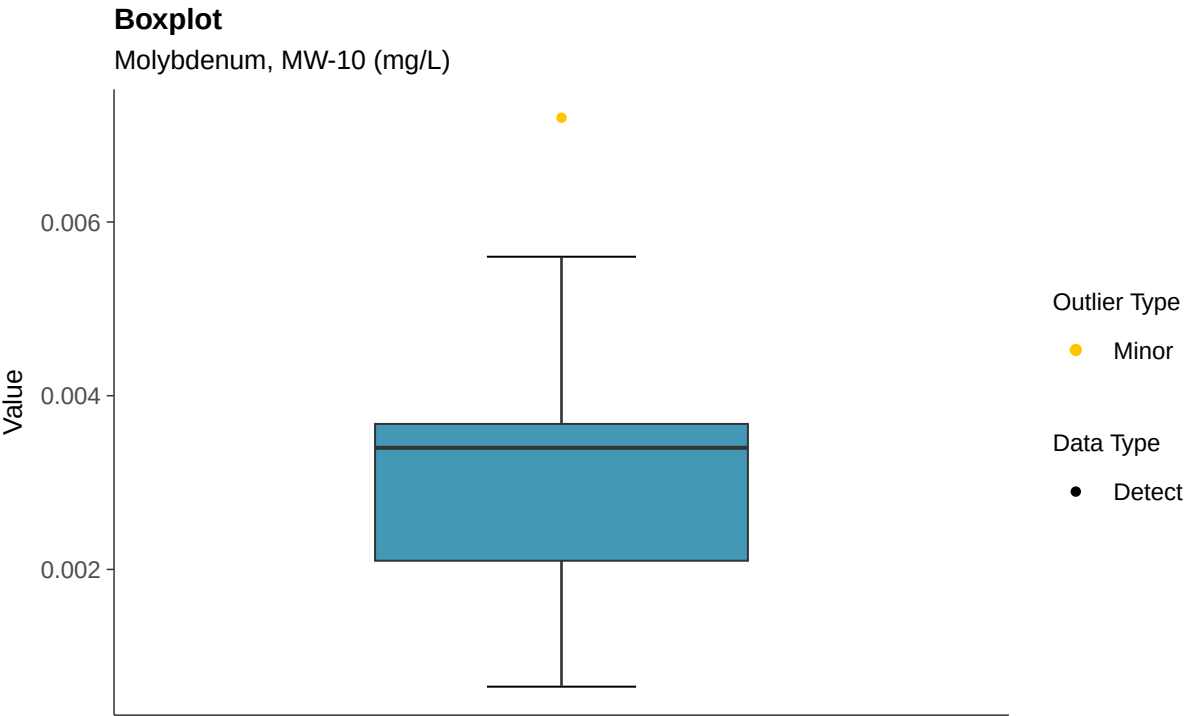


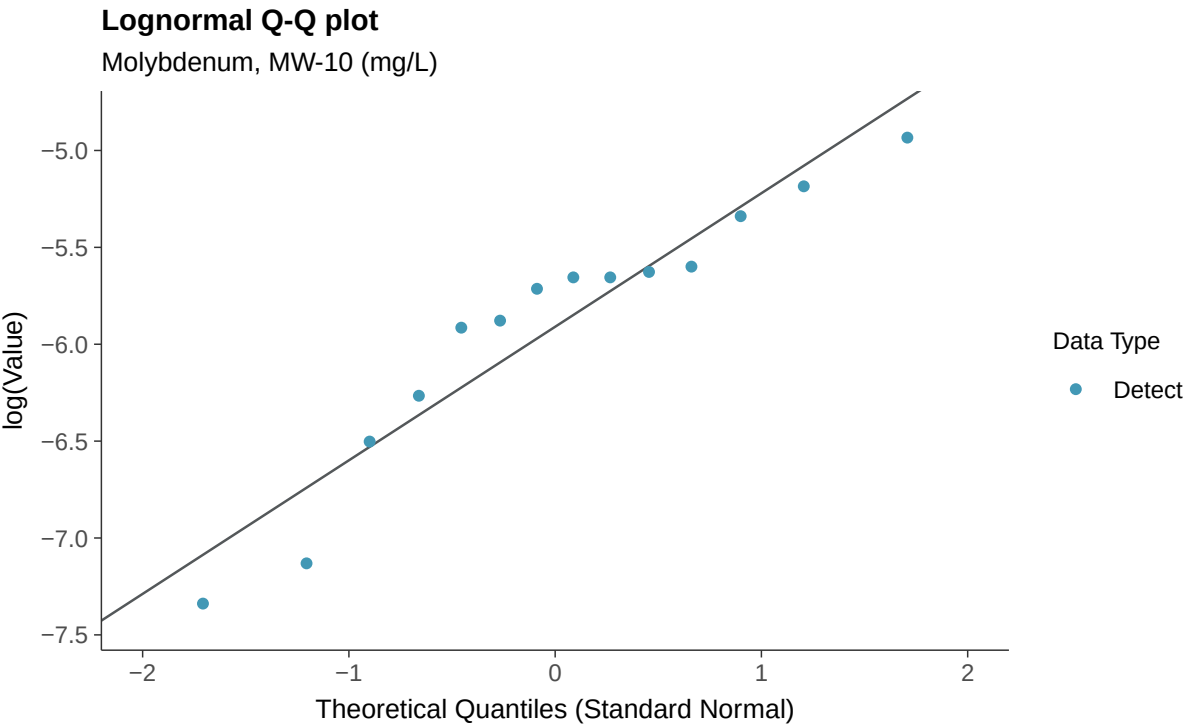
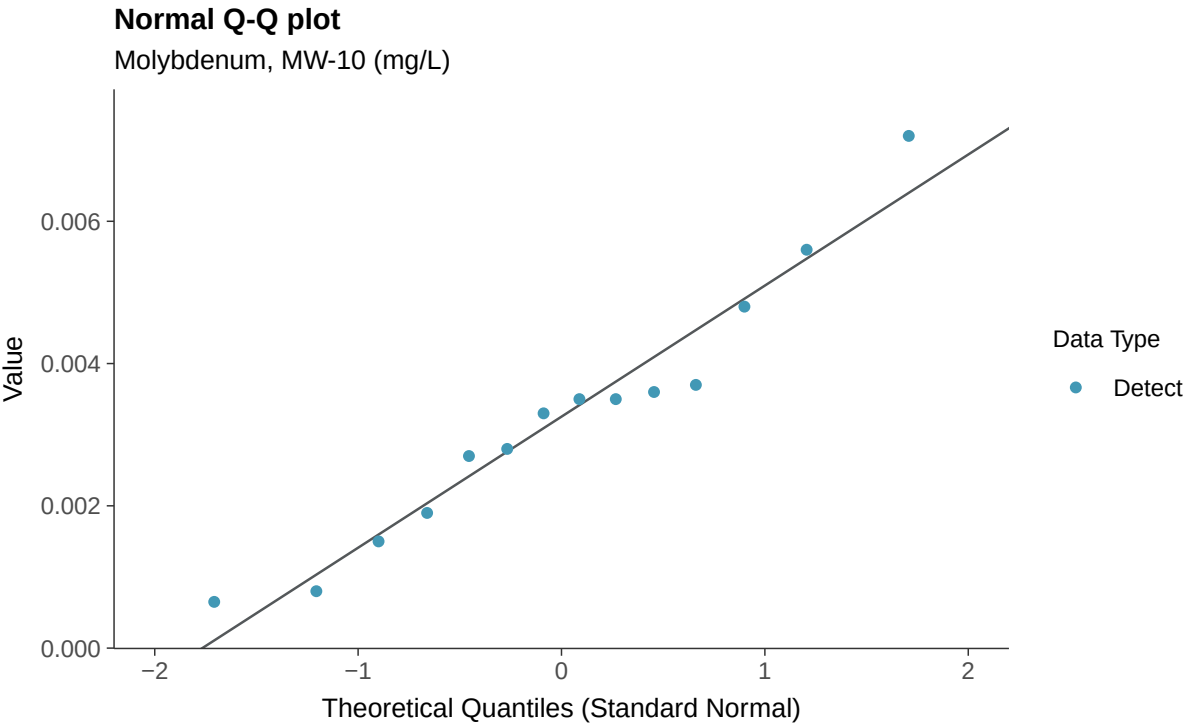


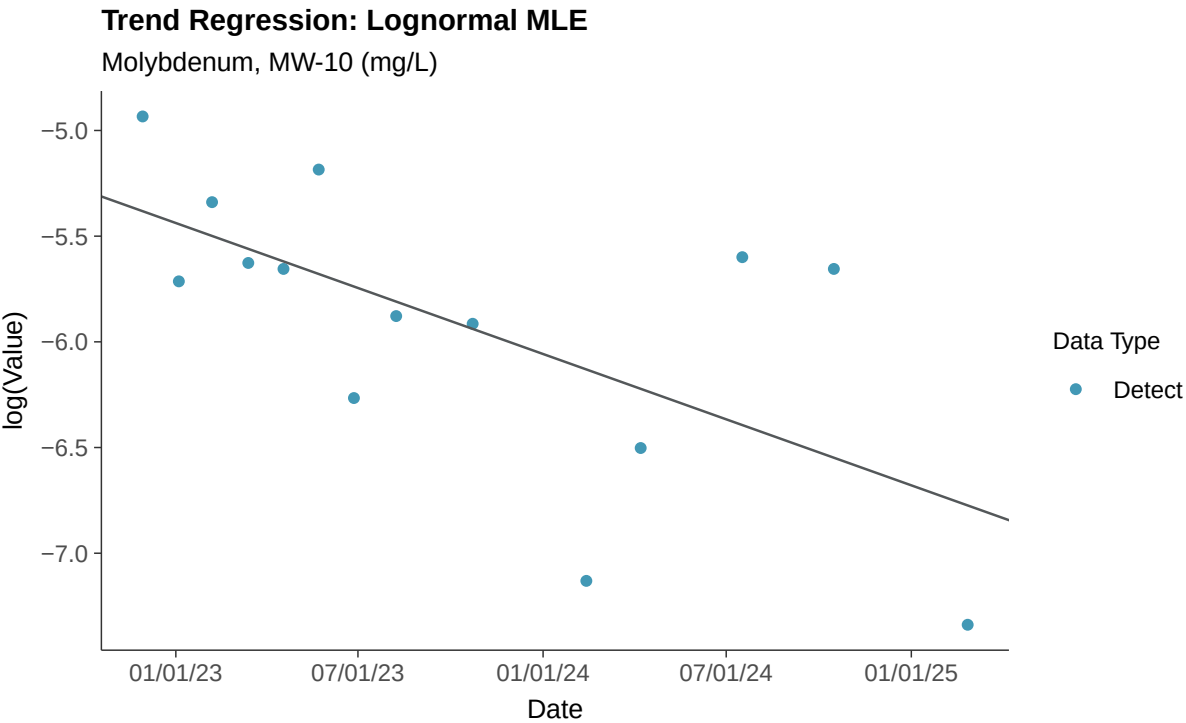
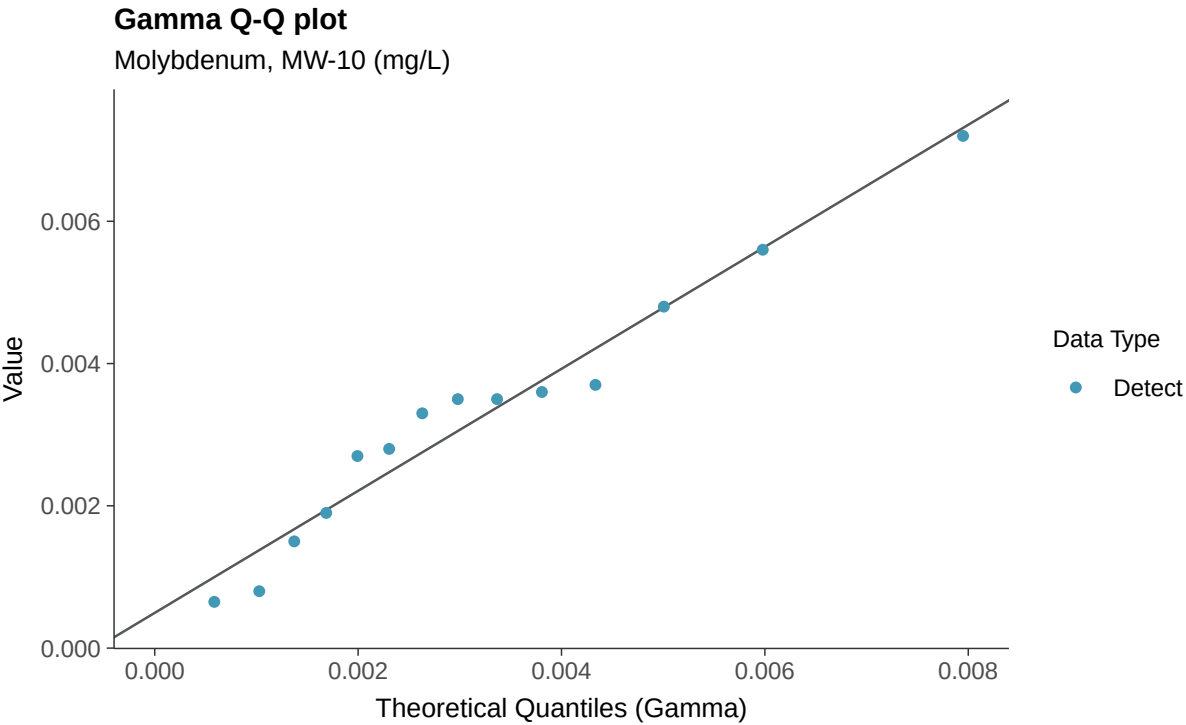
Appendix IV: Molybdenum, MW-10

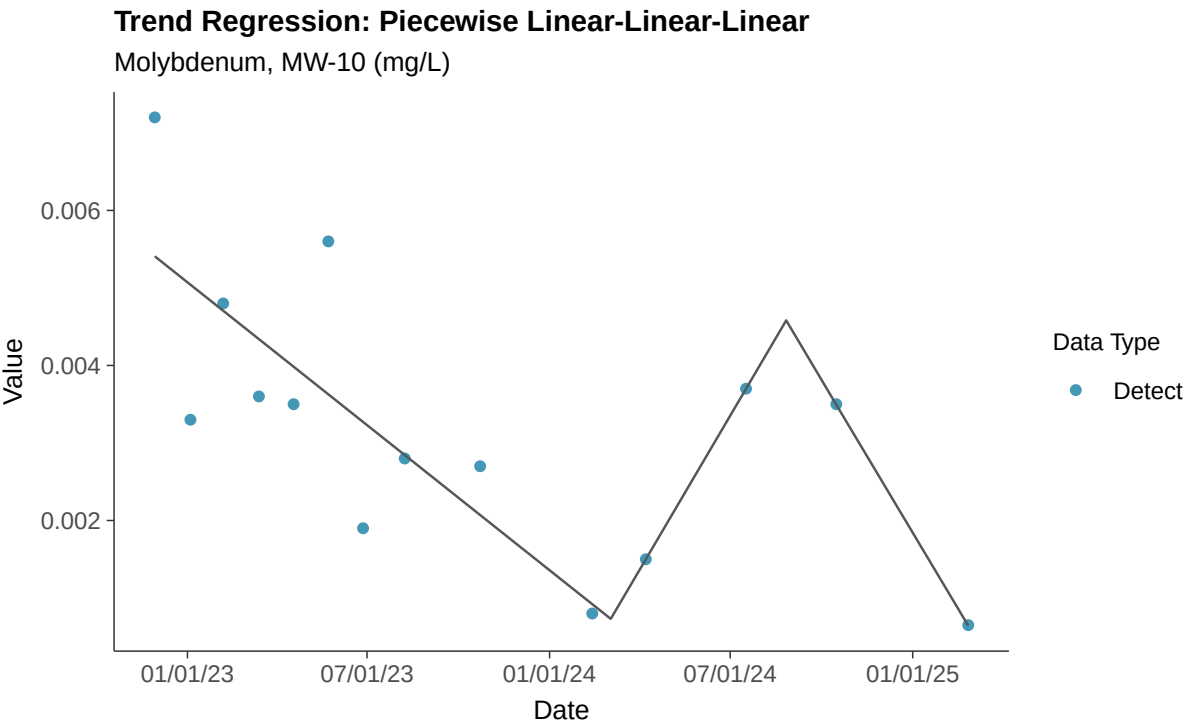
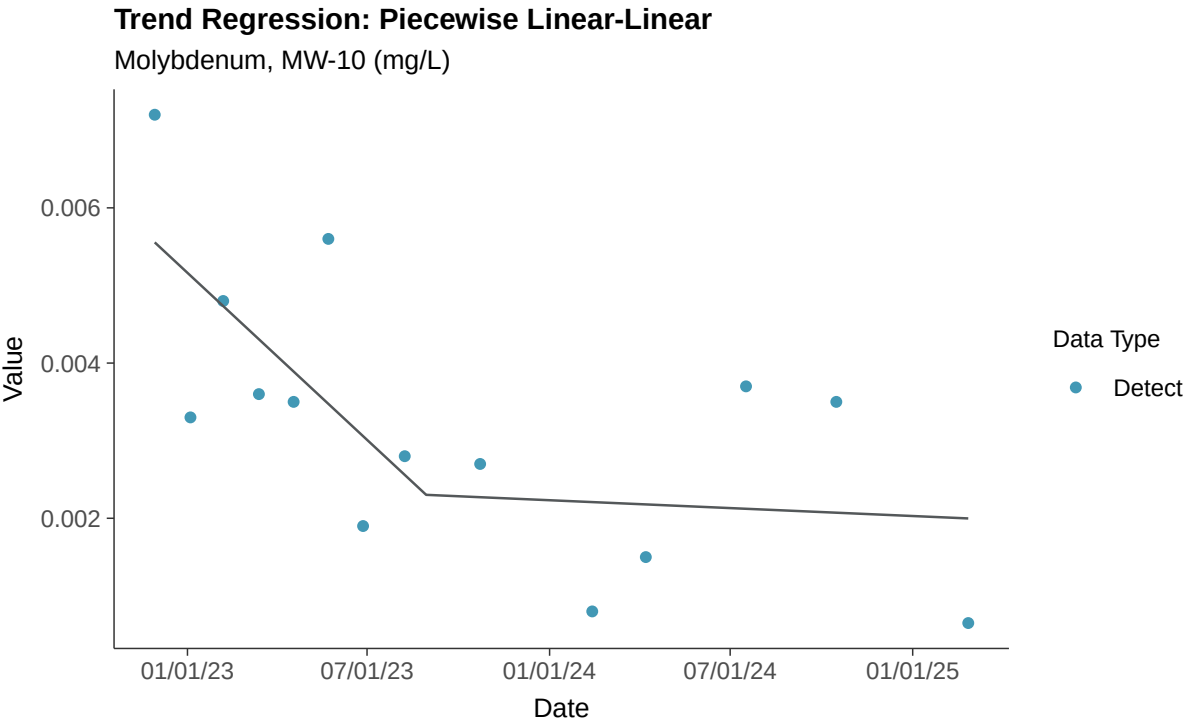
ID: 20_3_4_118







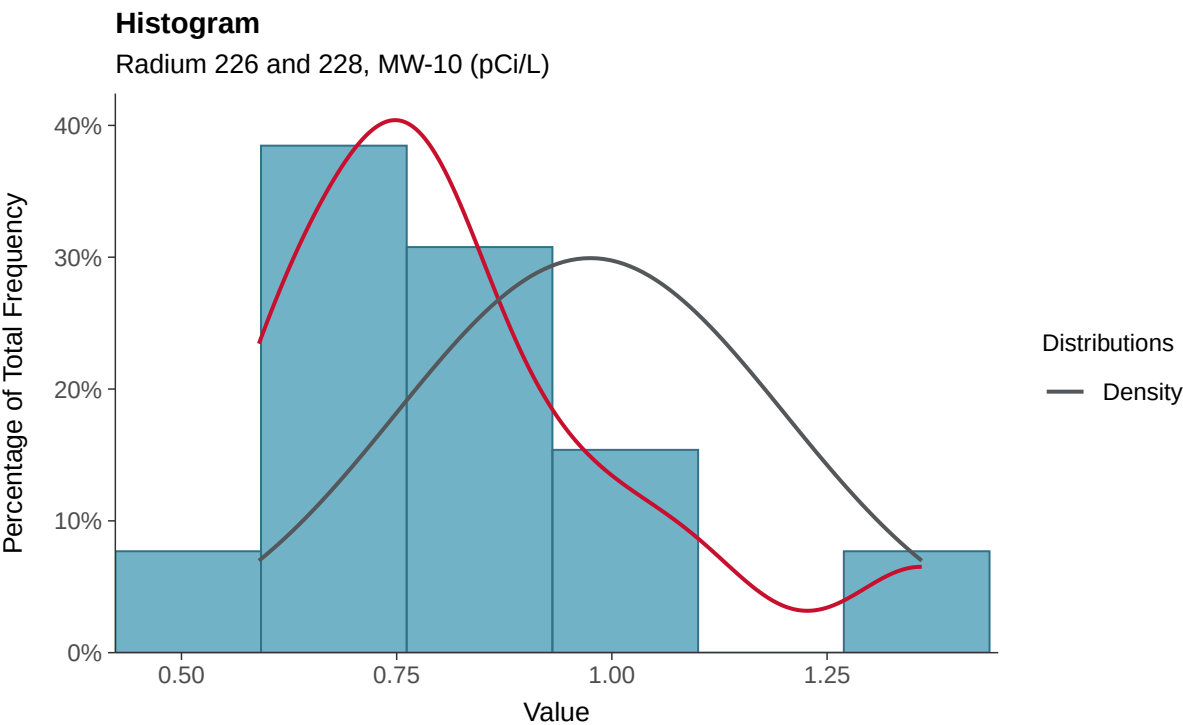
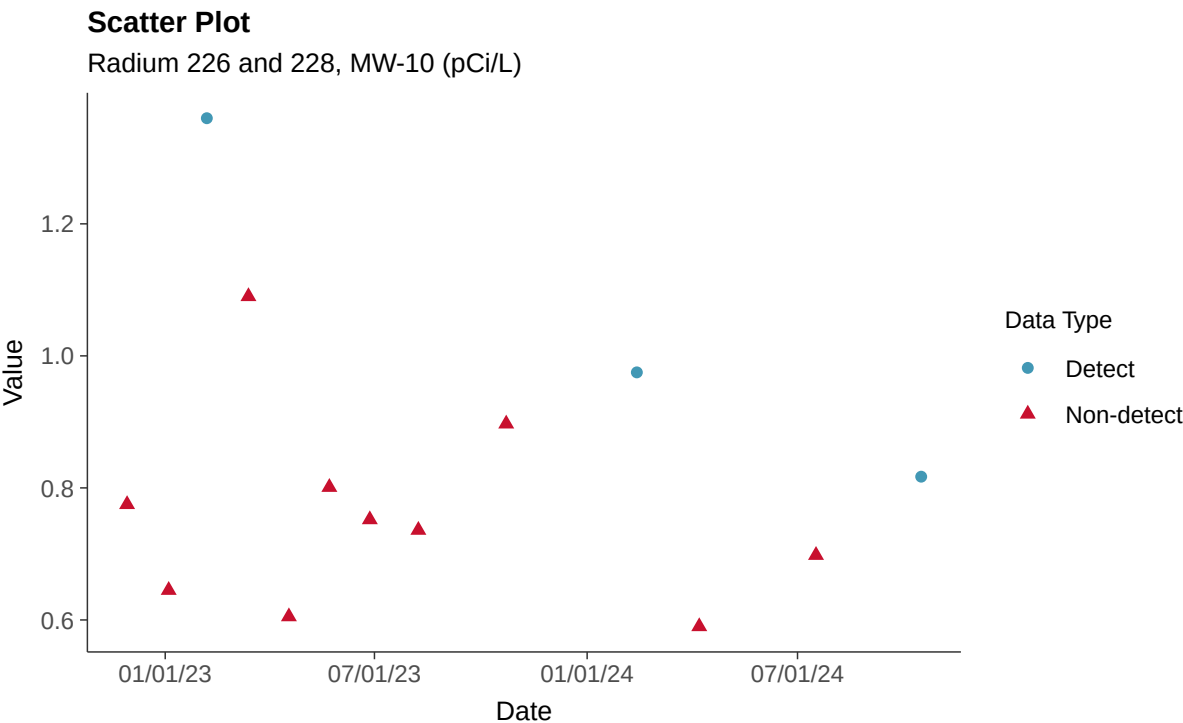






Appendix IV: Radium 226 and 228, MW-10

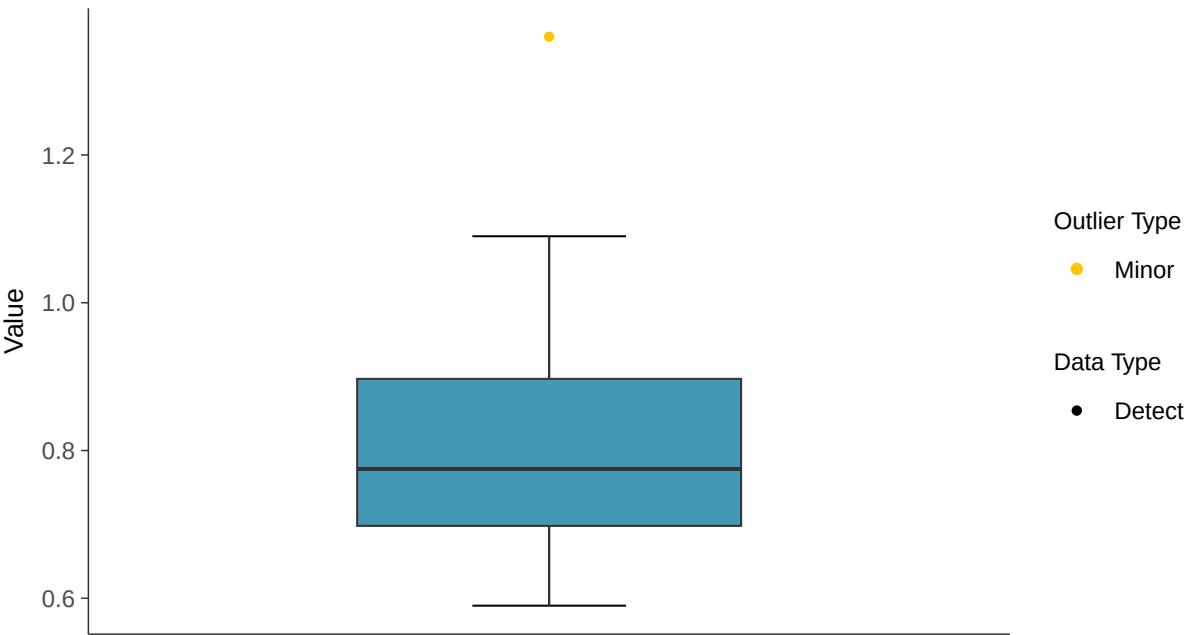
ID: 20_3_4_121





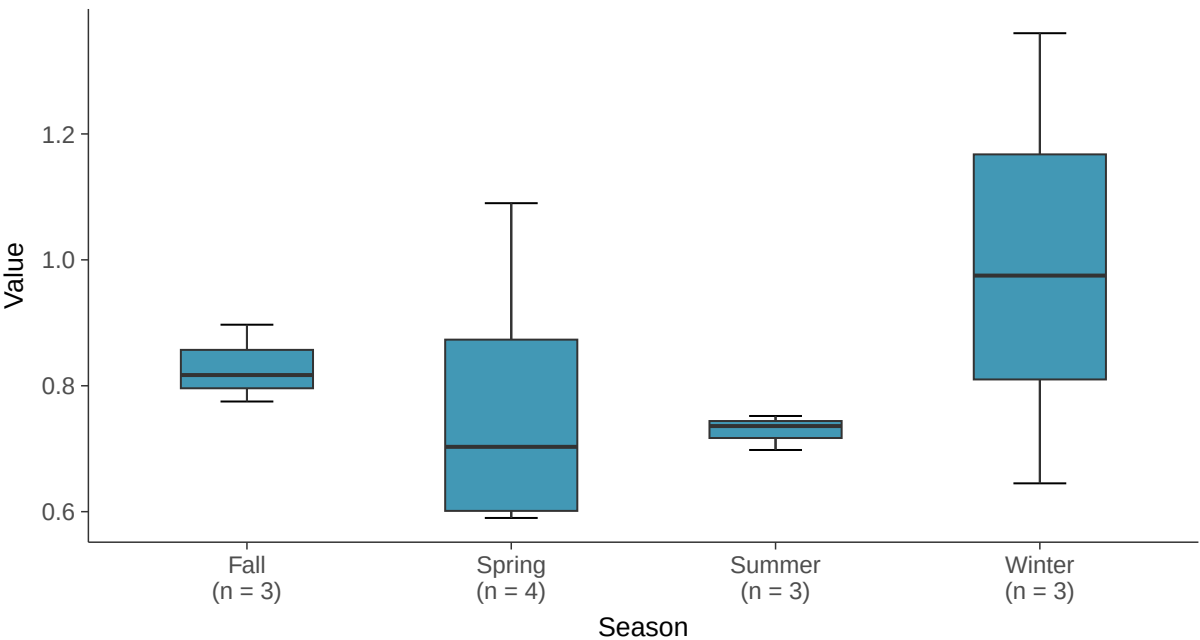
Boxplot

Radium 226 and 228, MW-10 (pCi/L)



Boxplot by Season

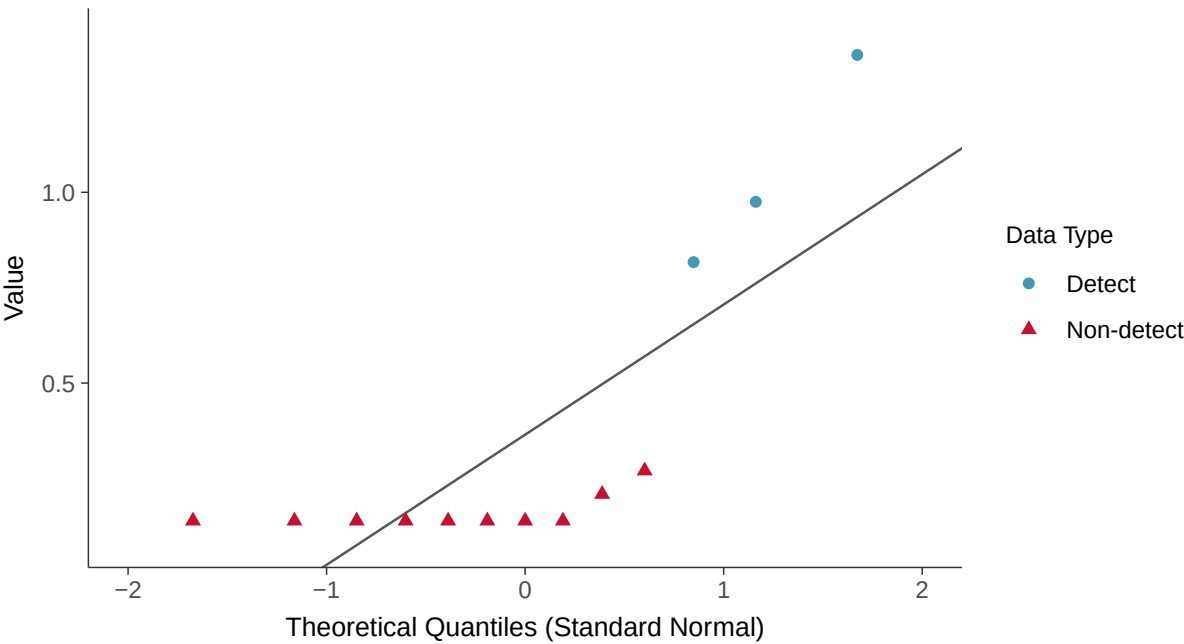
Radium 226 and 228, MW-10 (pCi/L)





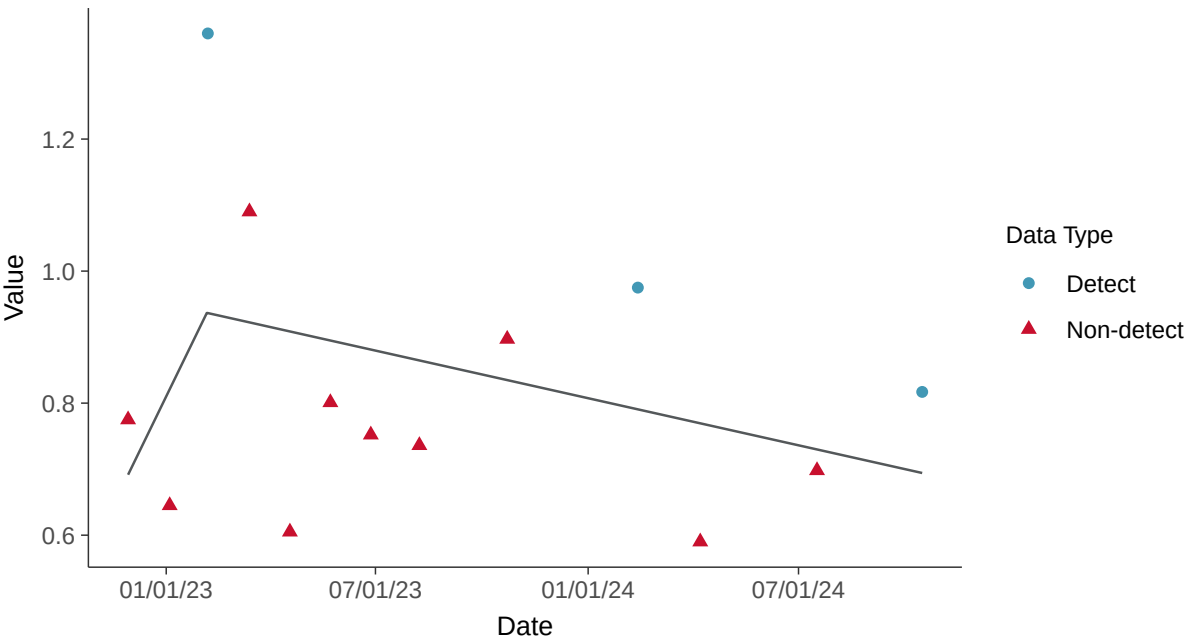
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-10 (pCi/L)



Trend Regression: Piecewise Linear-Linear

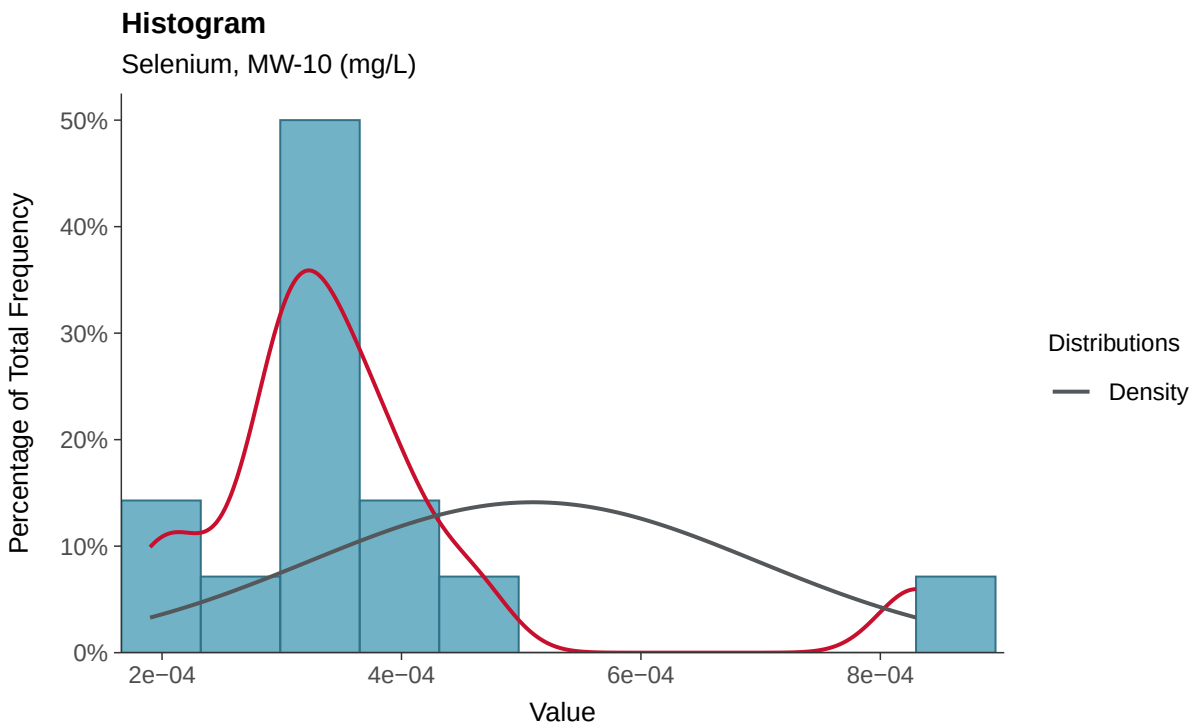
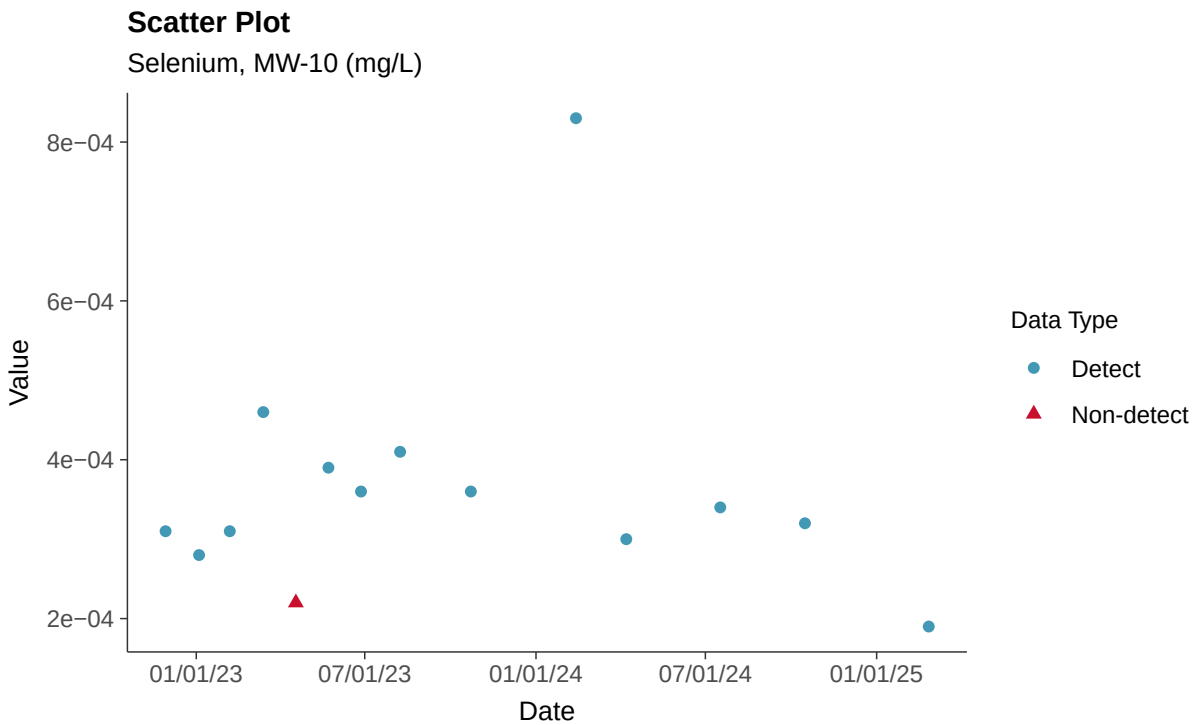
Radium 226 and 228, MW-10 (pCi/L)

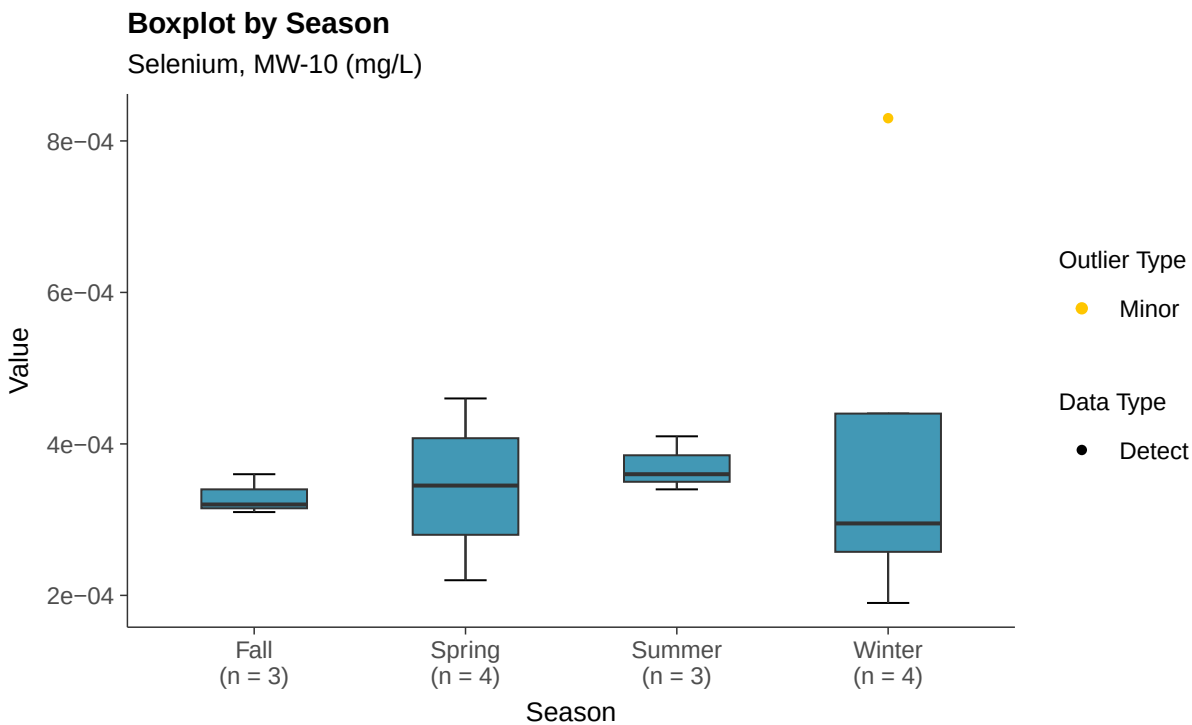
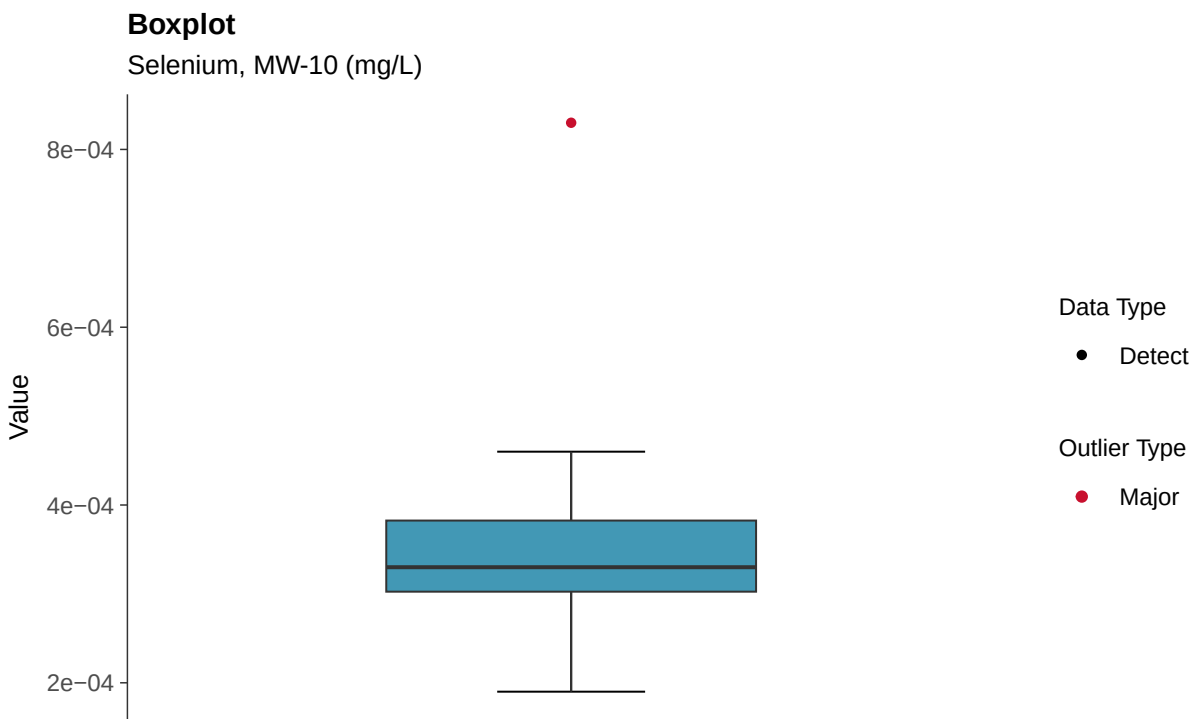




Appendix IV: Selenium, MW-10

ID: 20_3_4_122

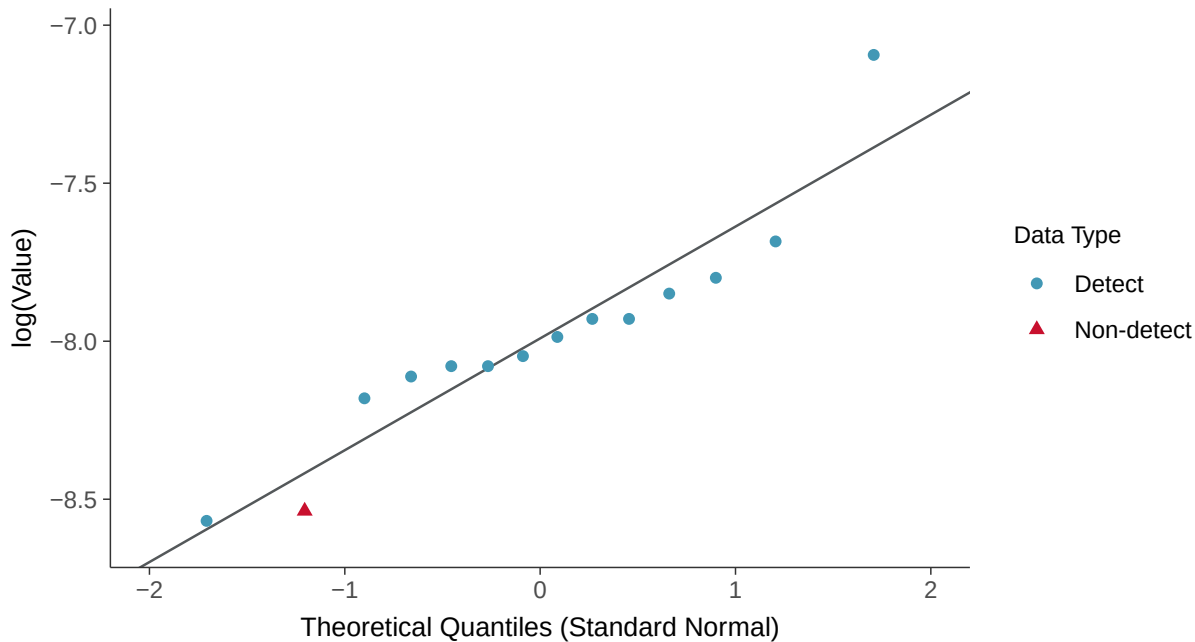






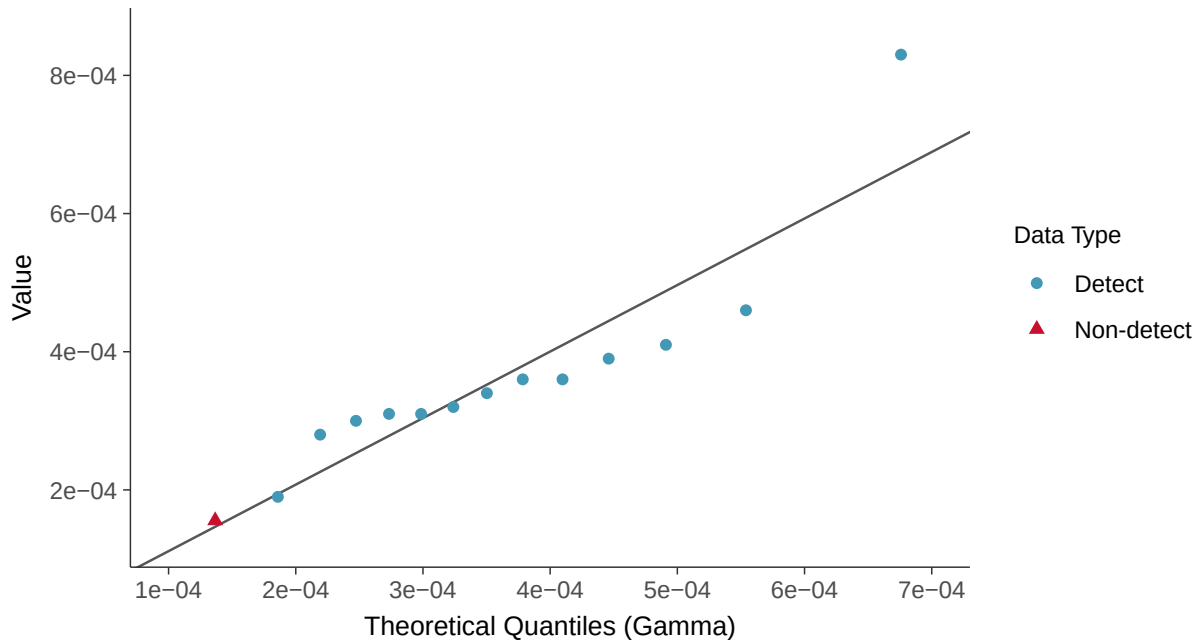
Lognormal Q-Q plot using ROS Imputed Estimates

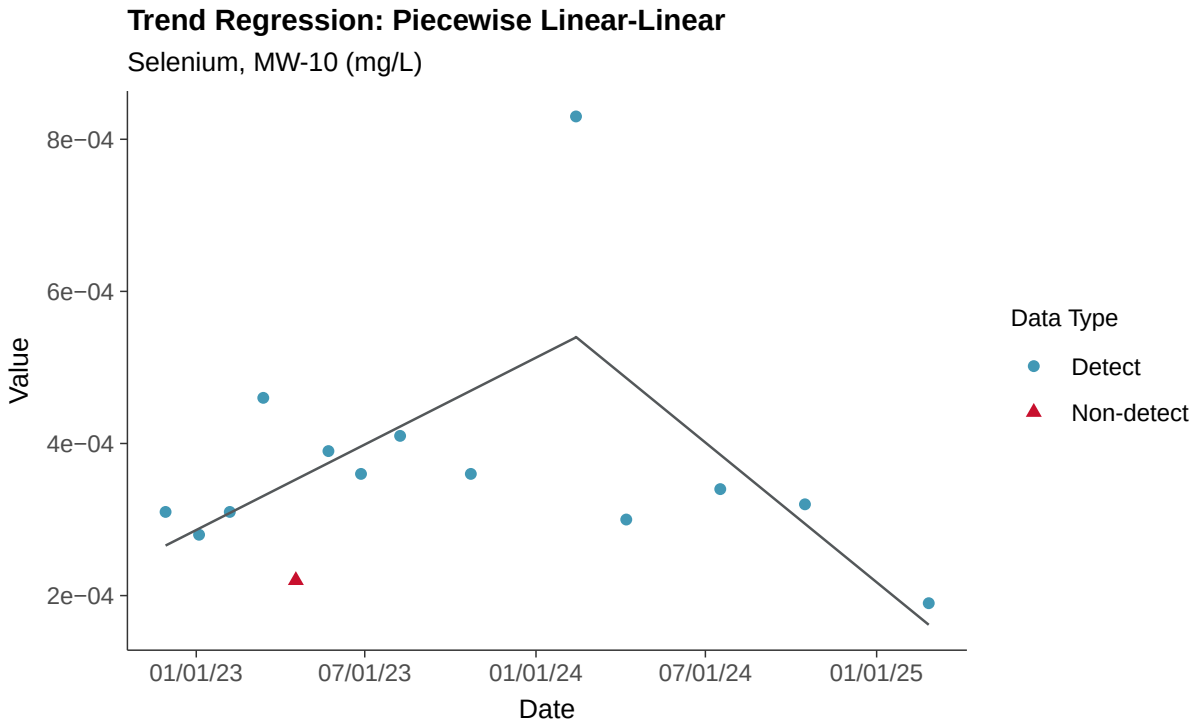
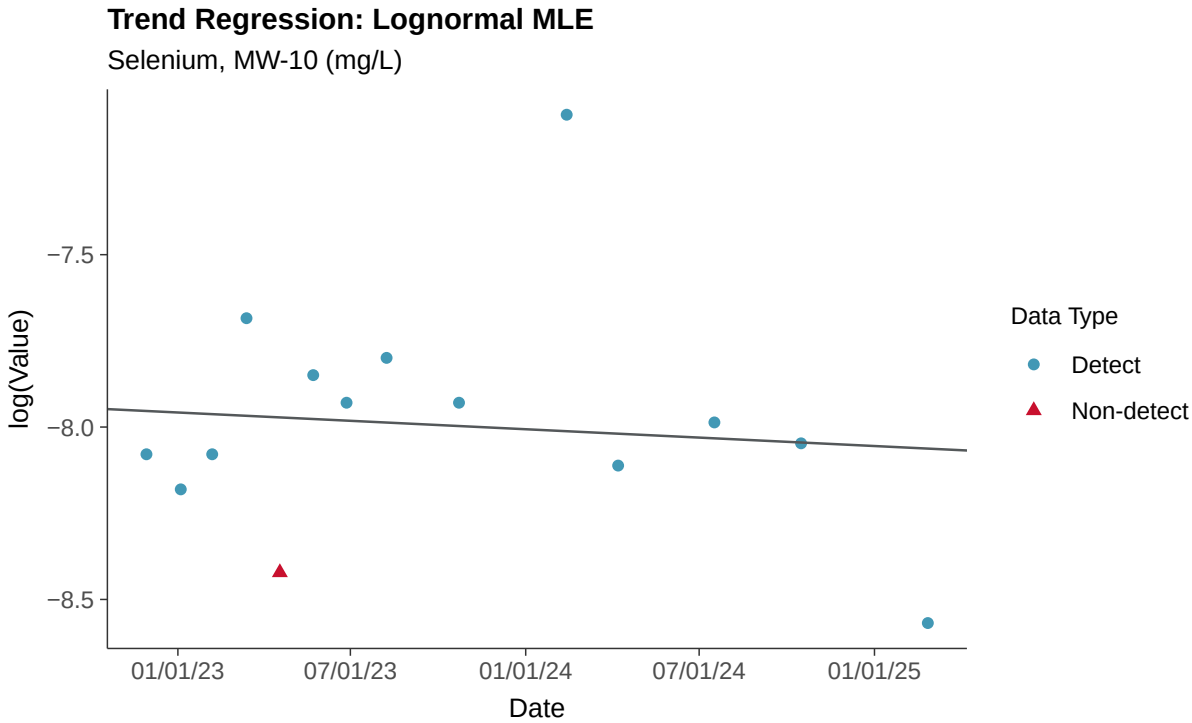
Selenium, MW-10 (mg/L)

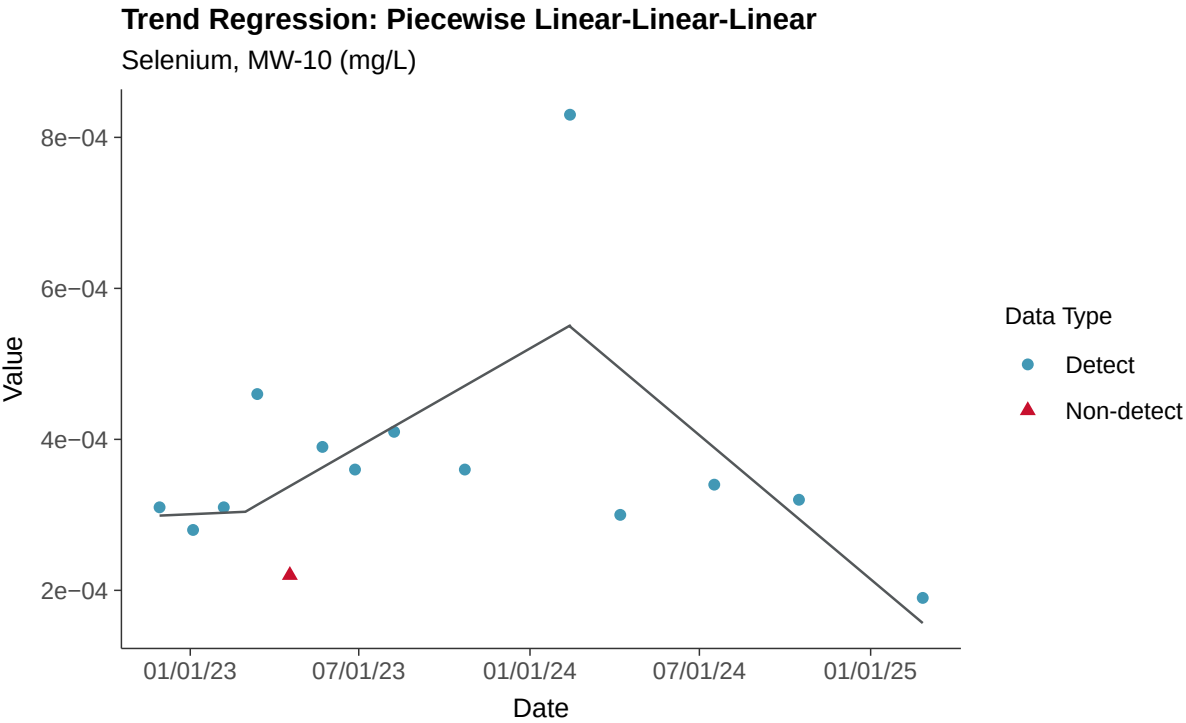


Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-10 (mg/L)



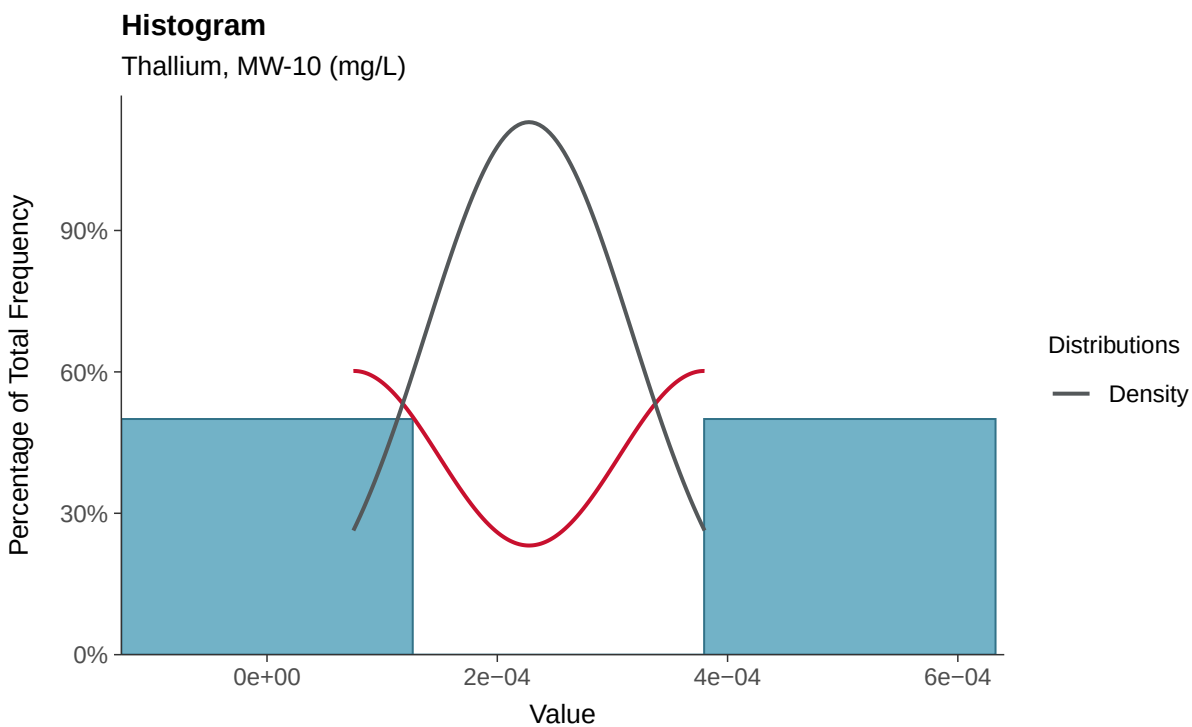
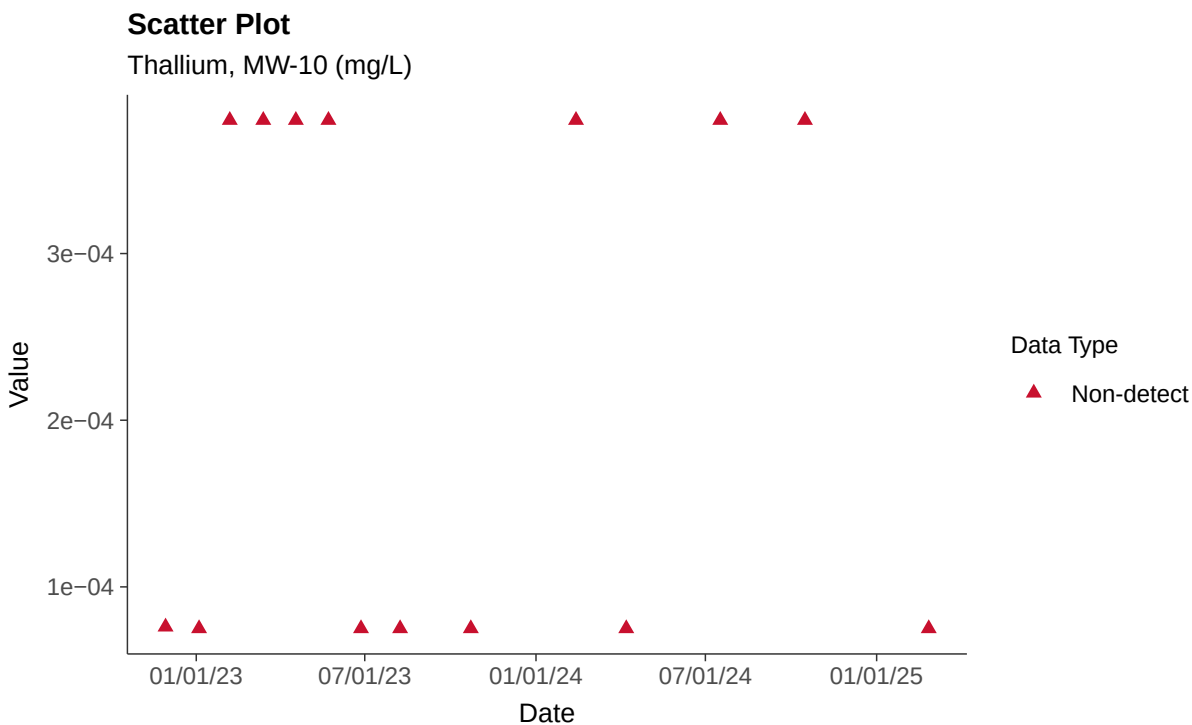


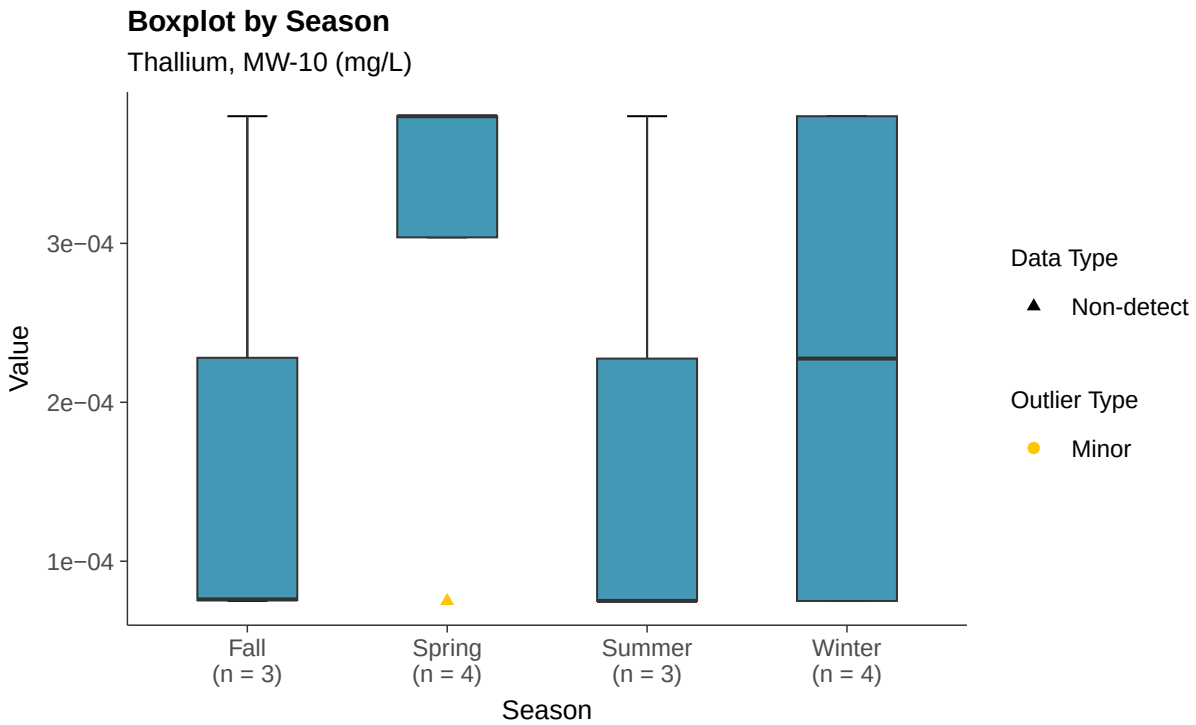
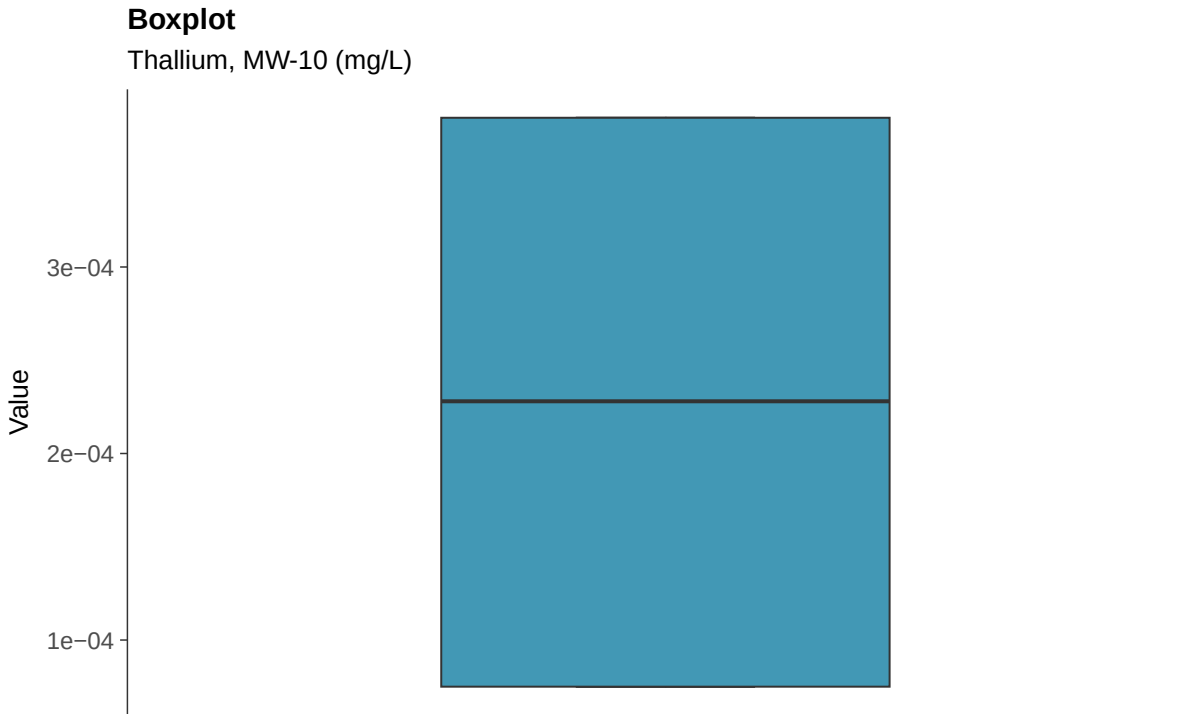


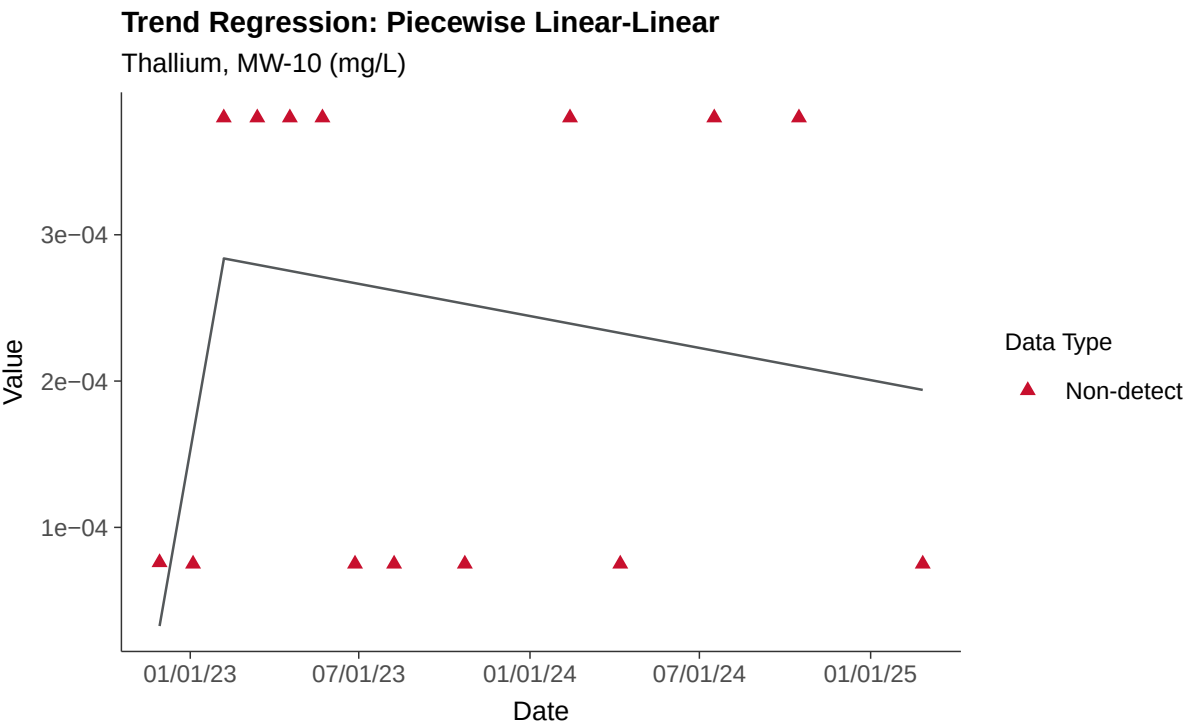


Appendix IV: Thallium, MW-10

ID: 20_3_4_125



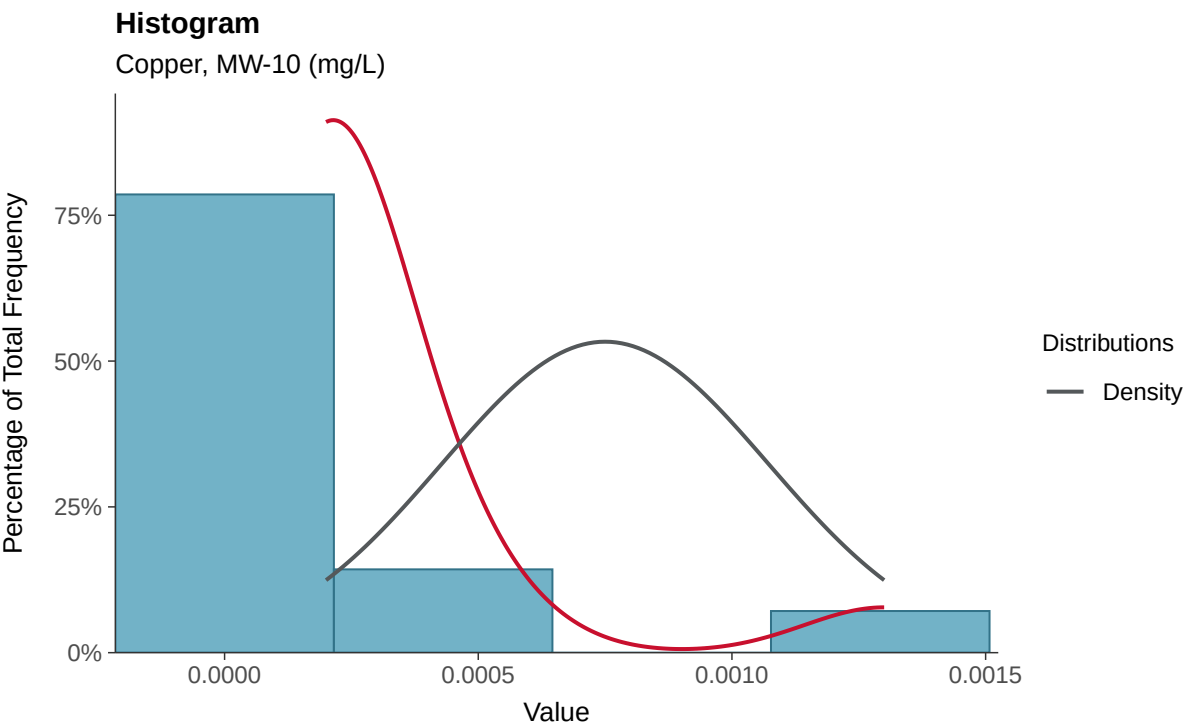
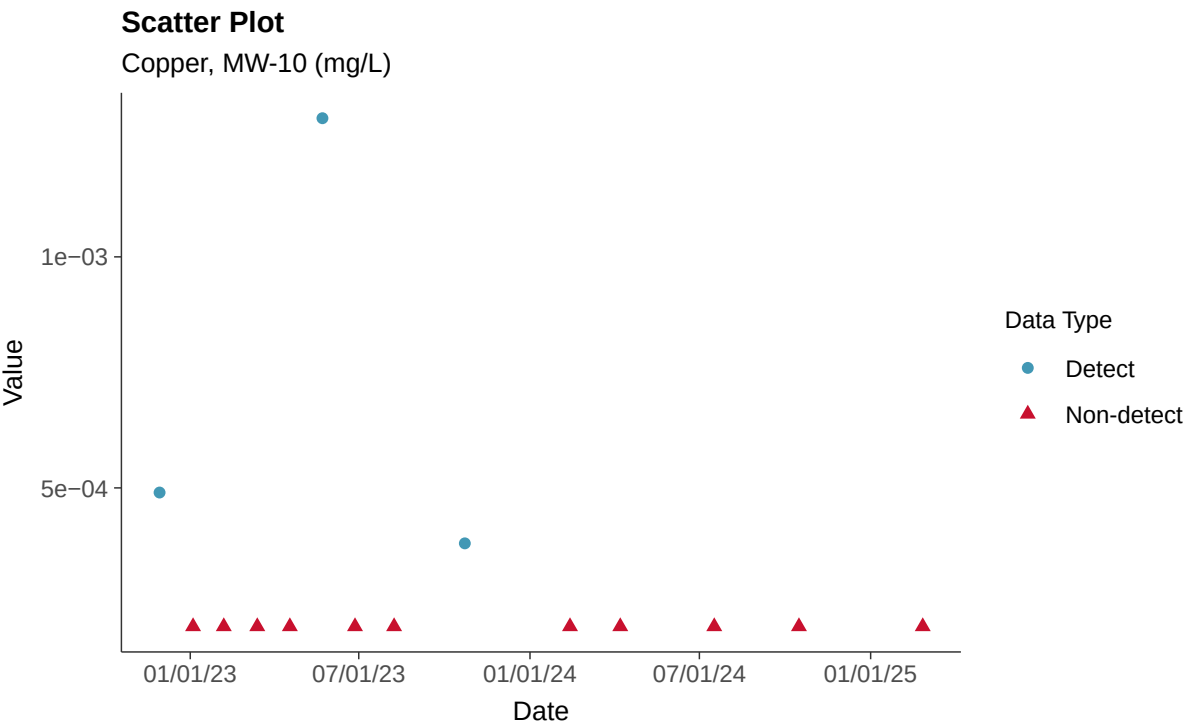


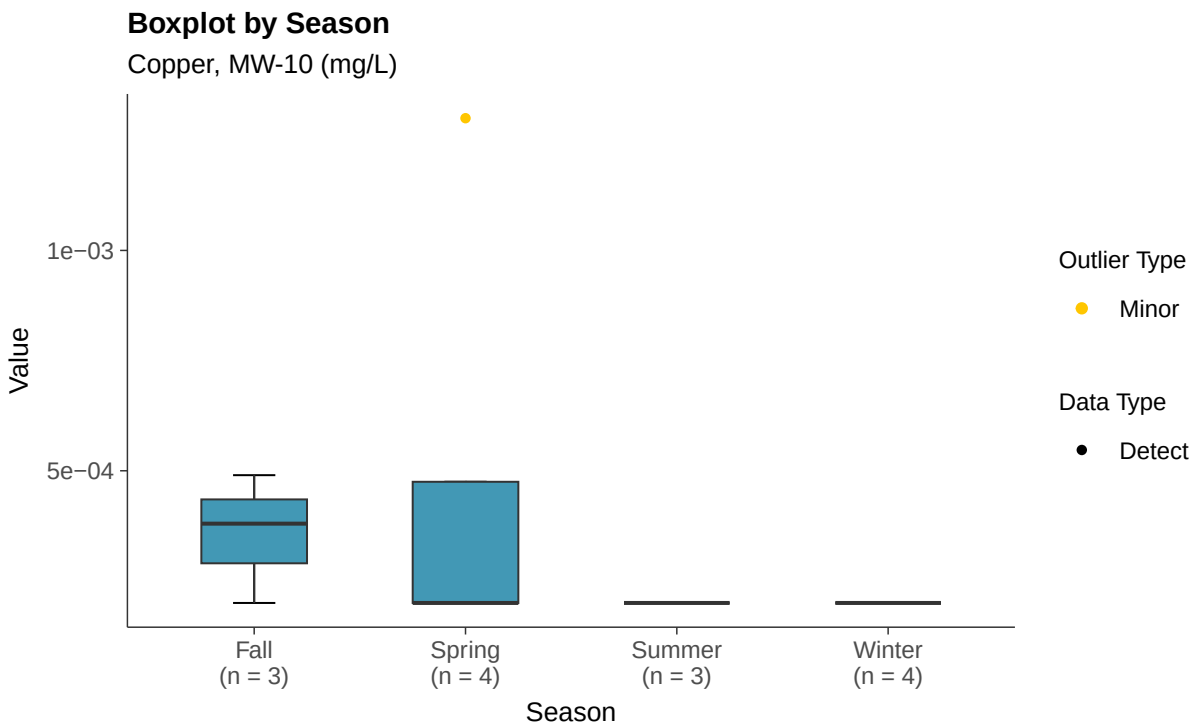
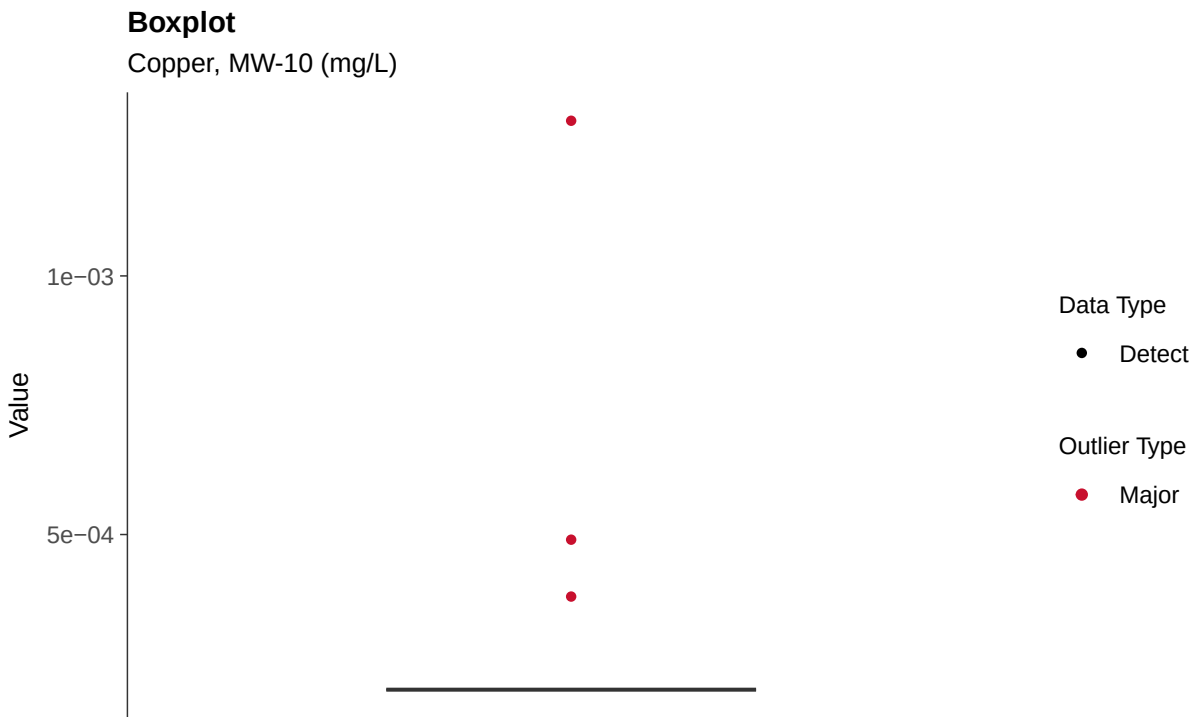


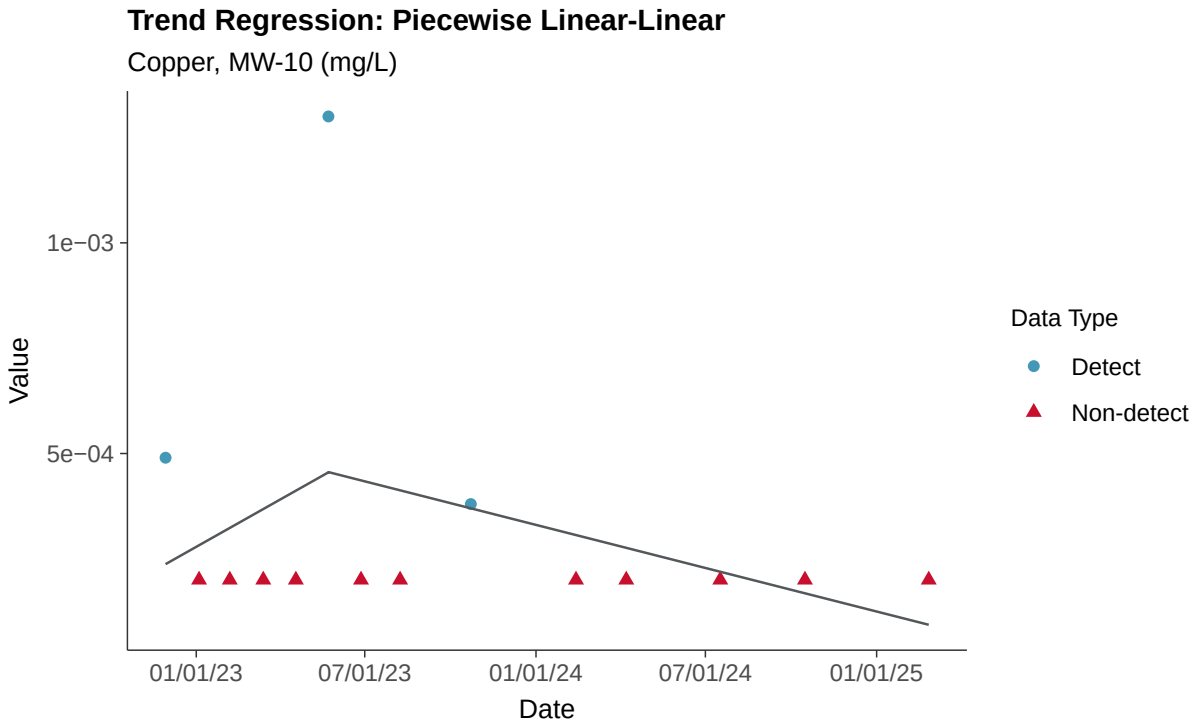
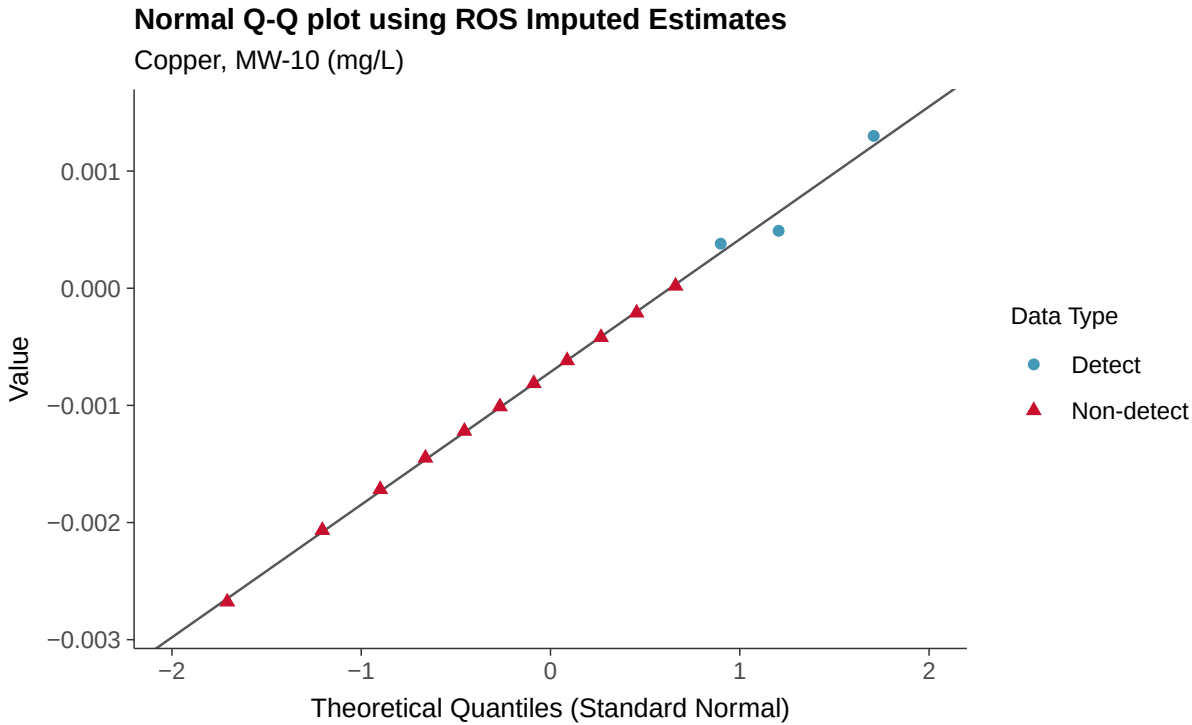


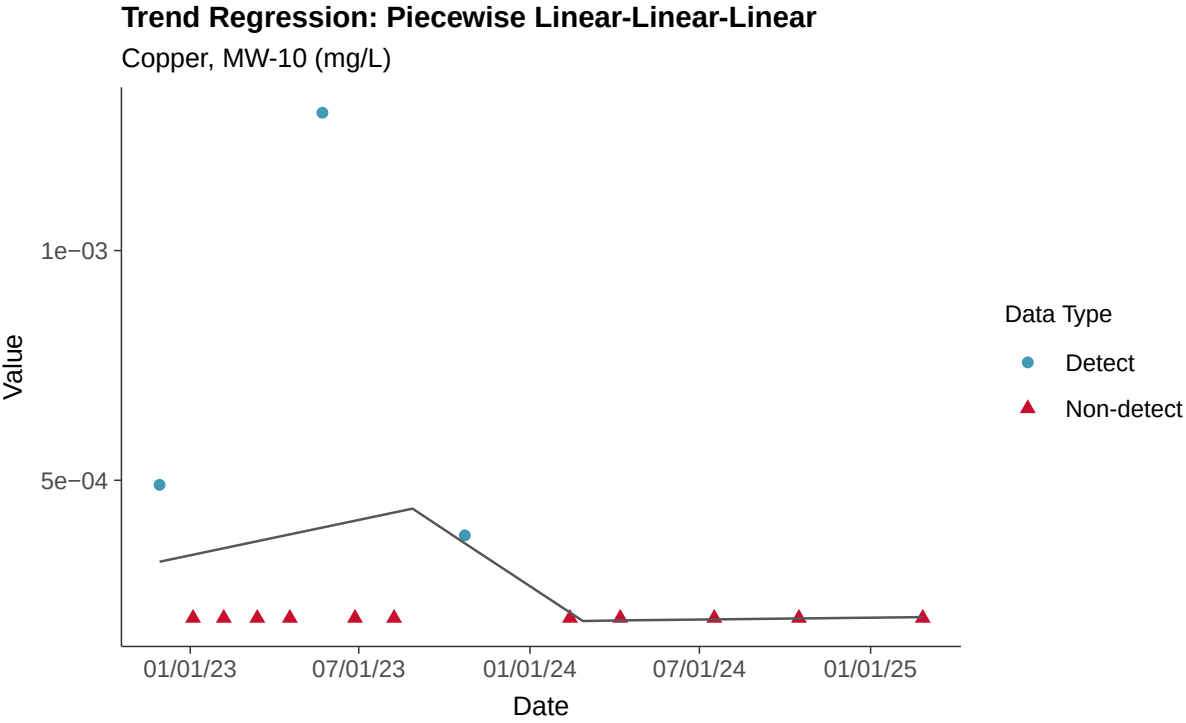
Part 115: Copper, MW-10

ID: 20_3_5_111





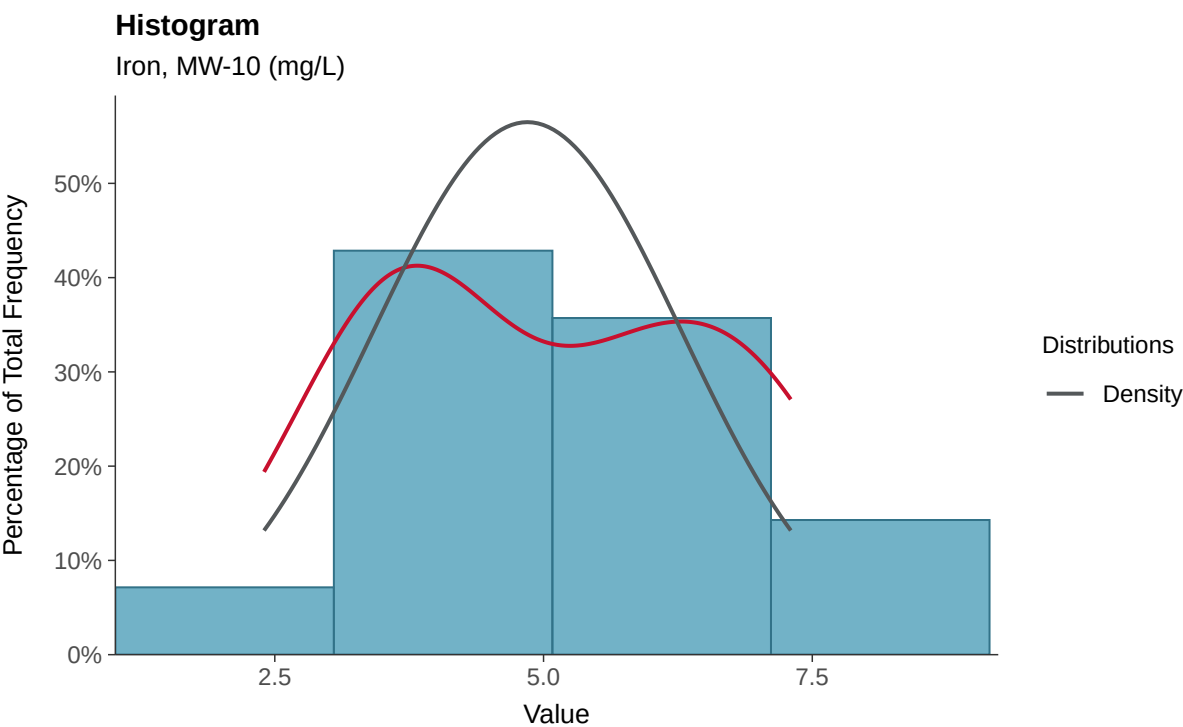
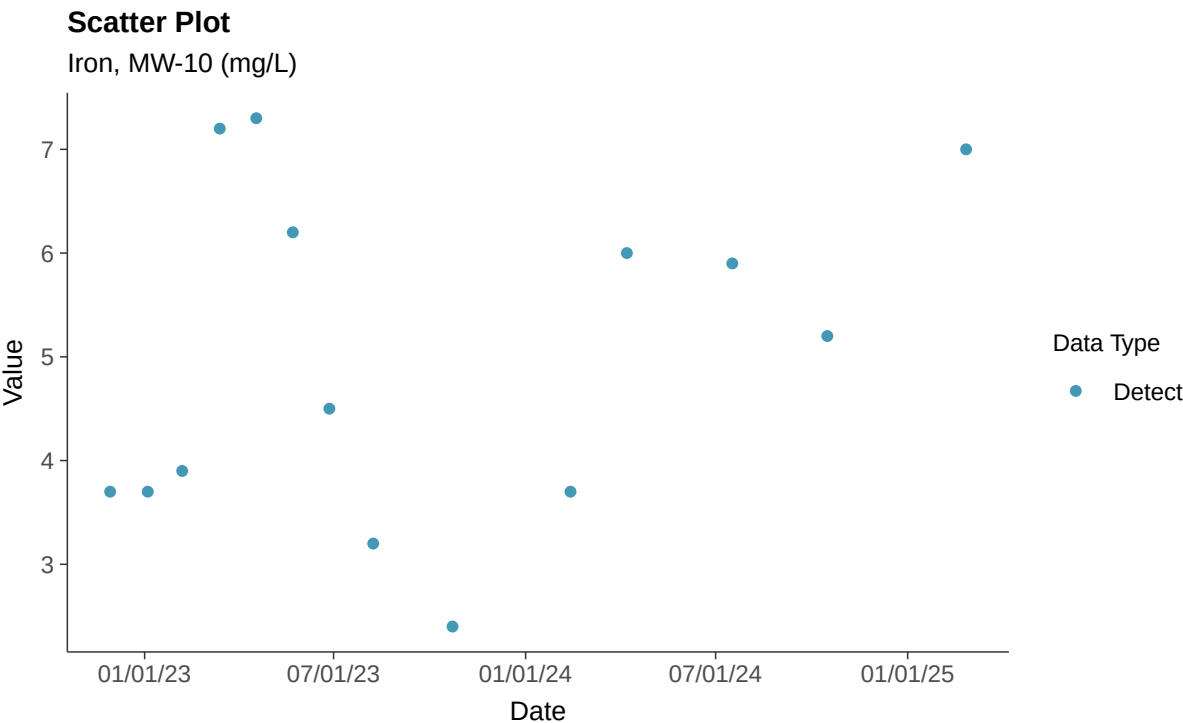


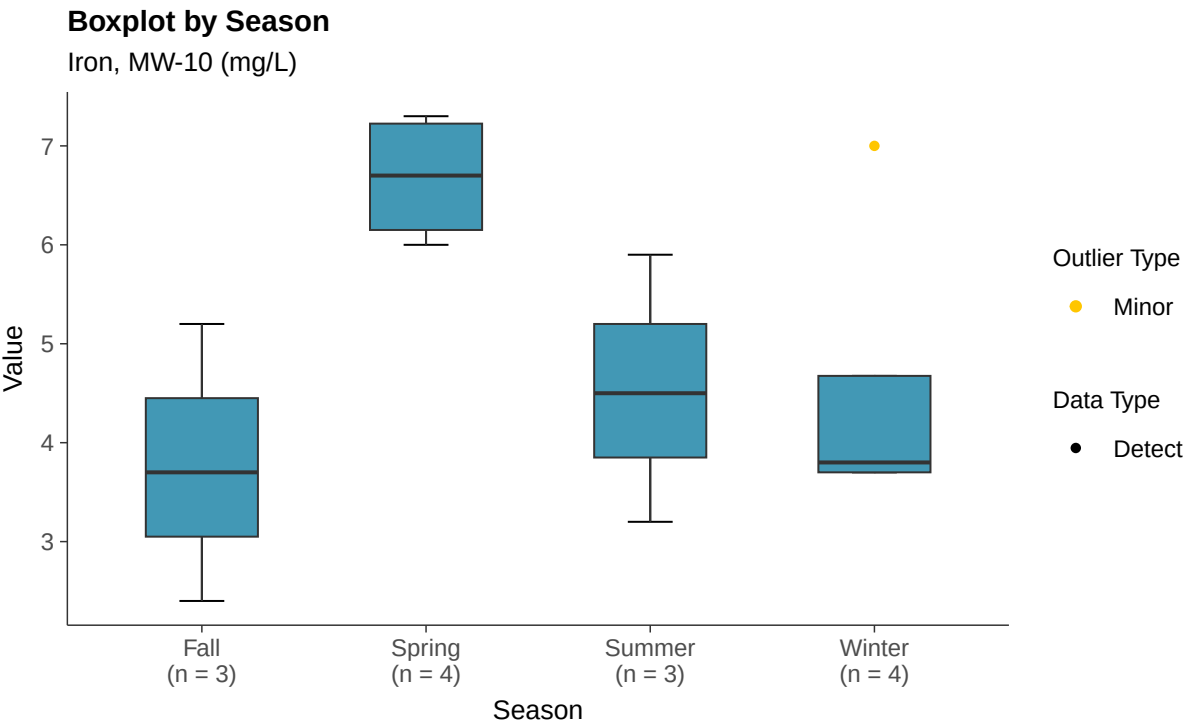
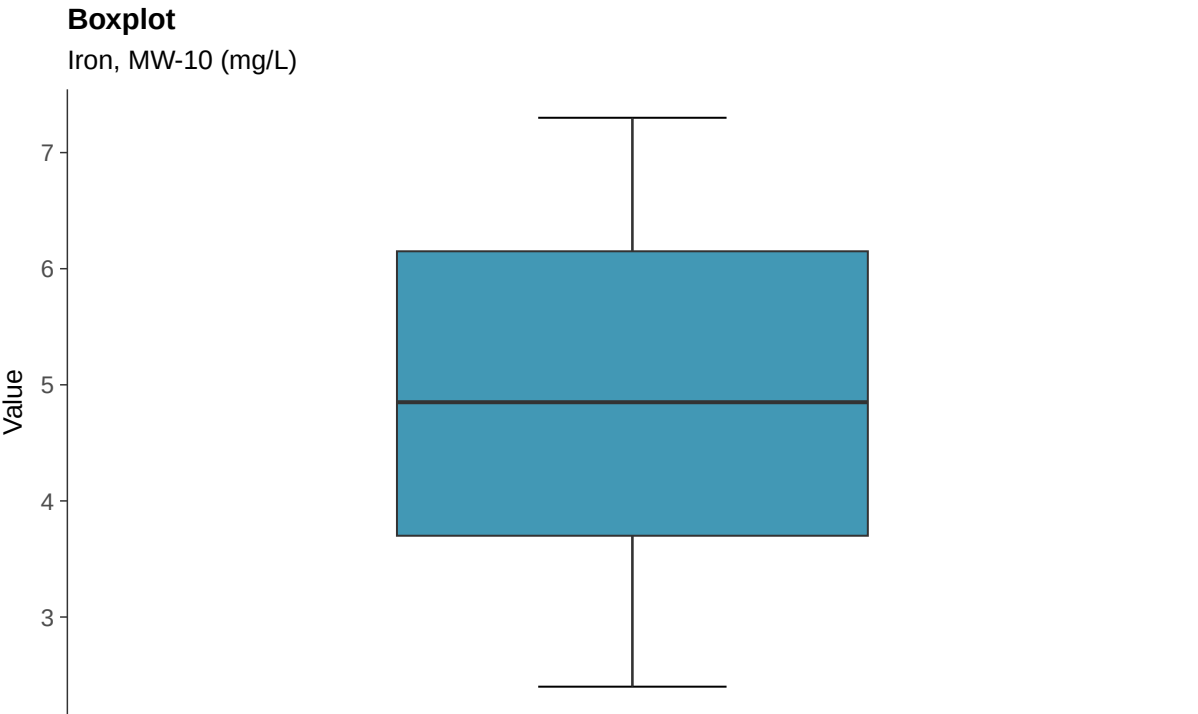


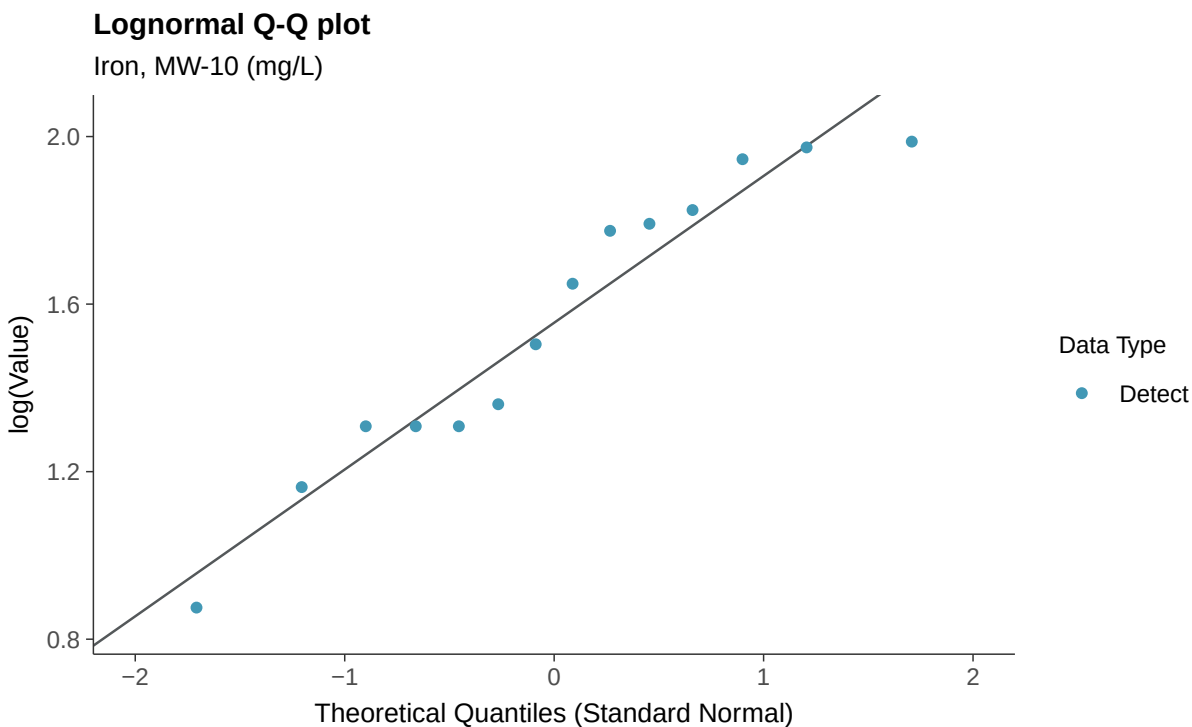
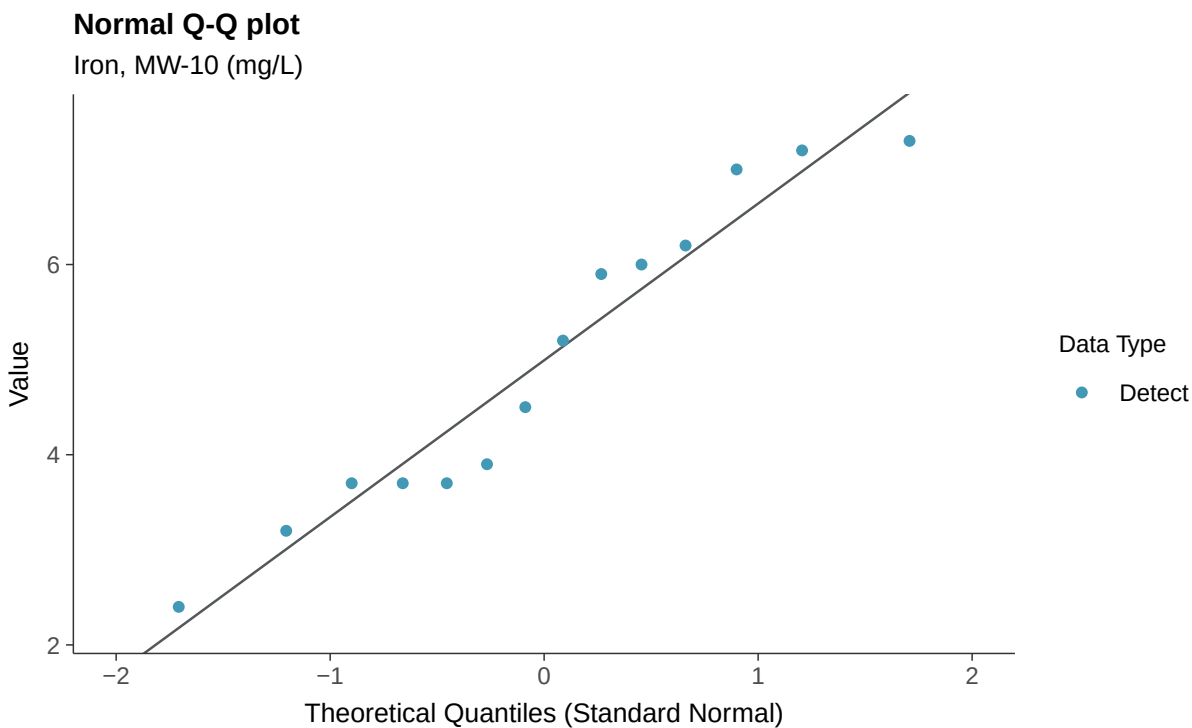


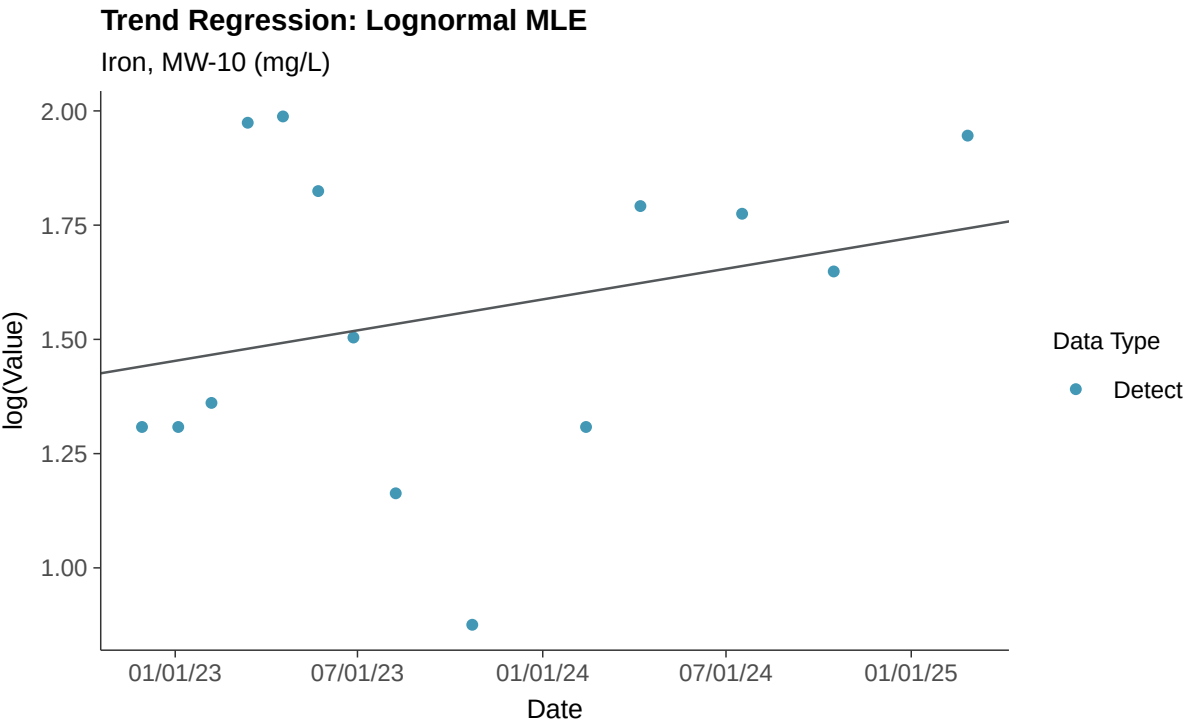
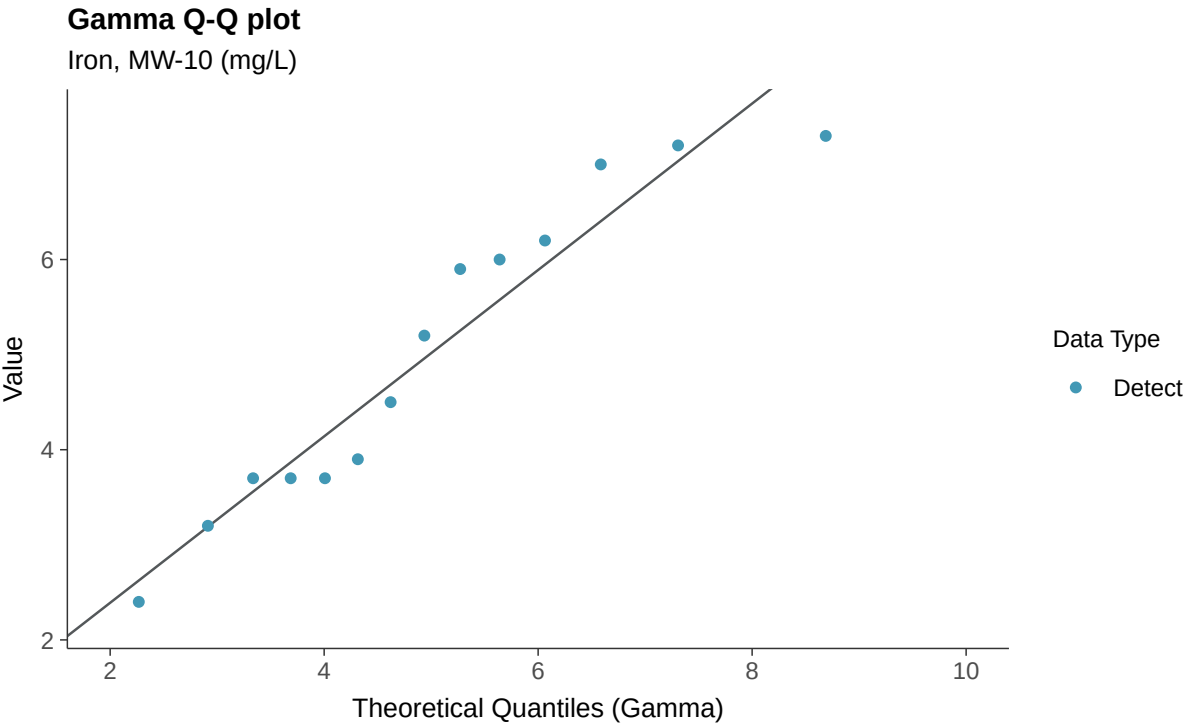
Part 115: Iron, MW-10

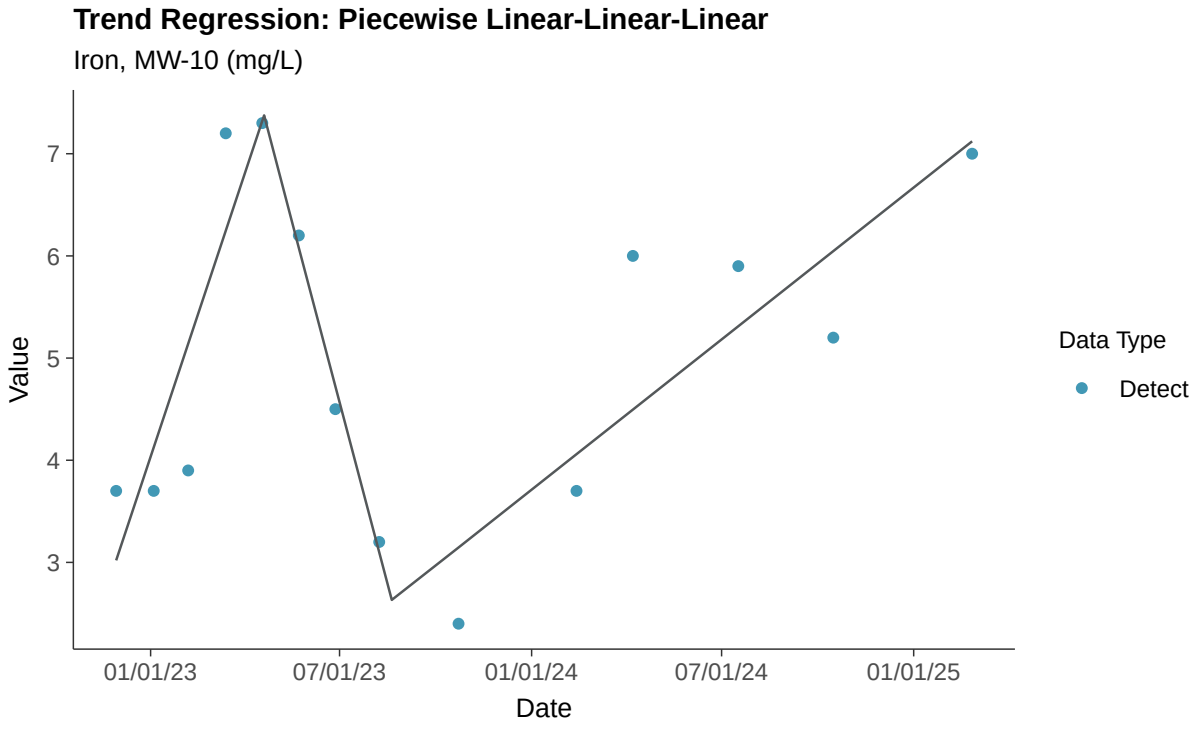
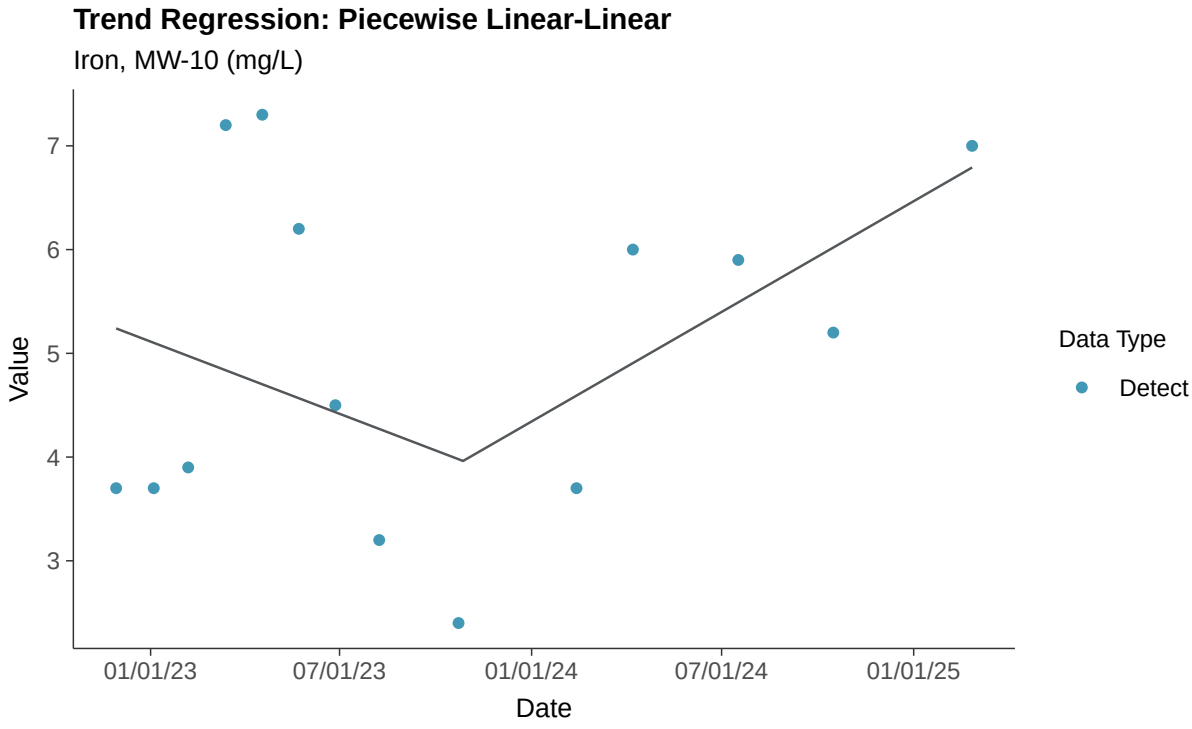
ID: 20_3_5_114







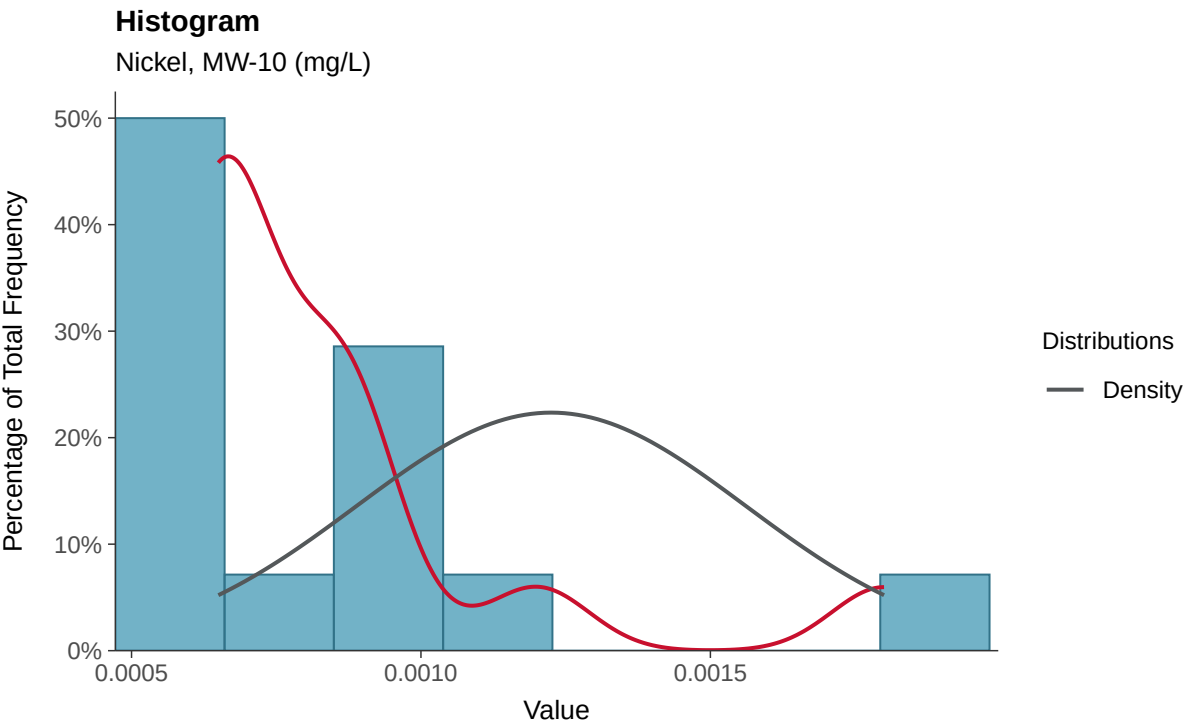
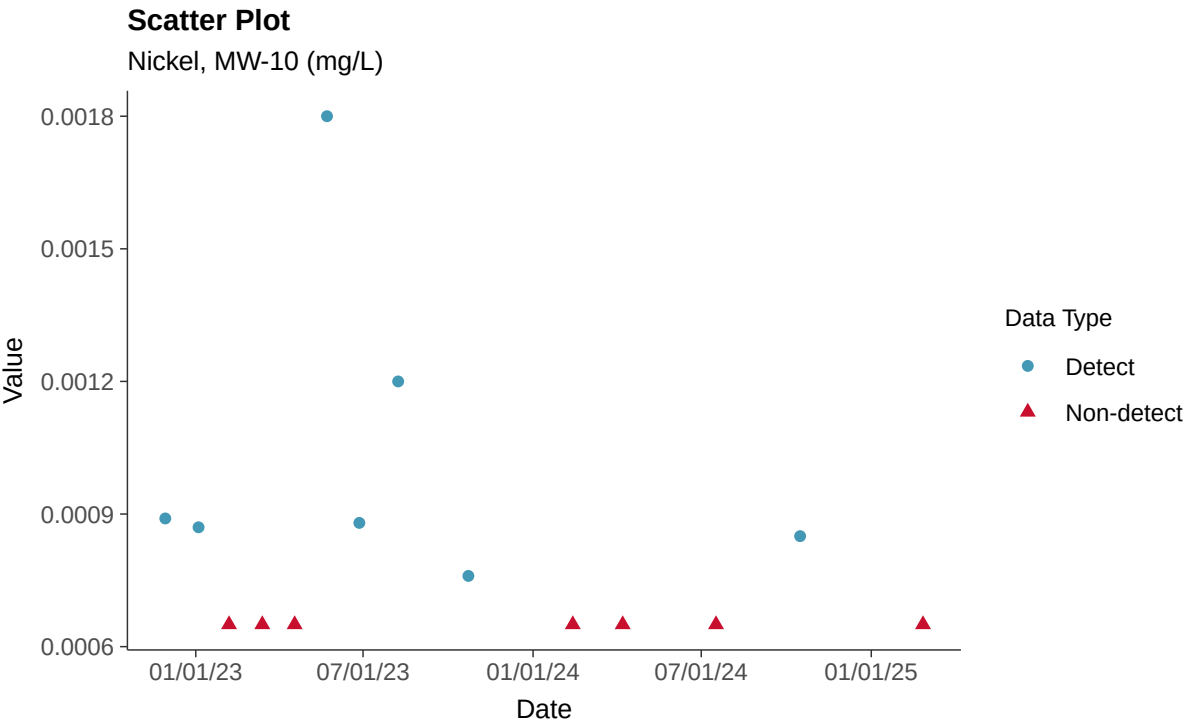


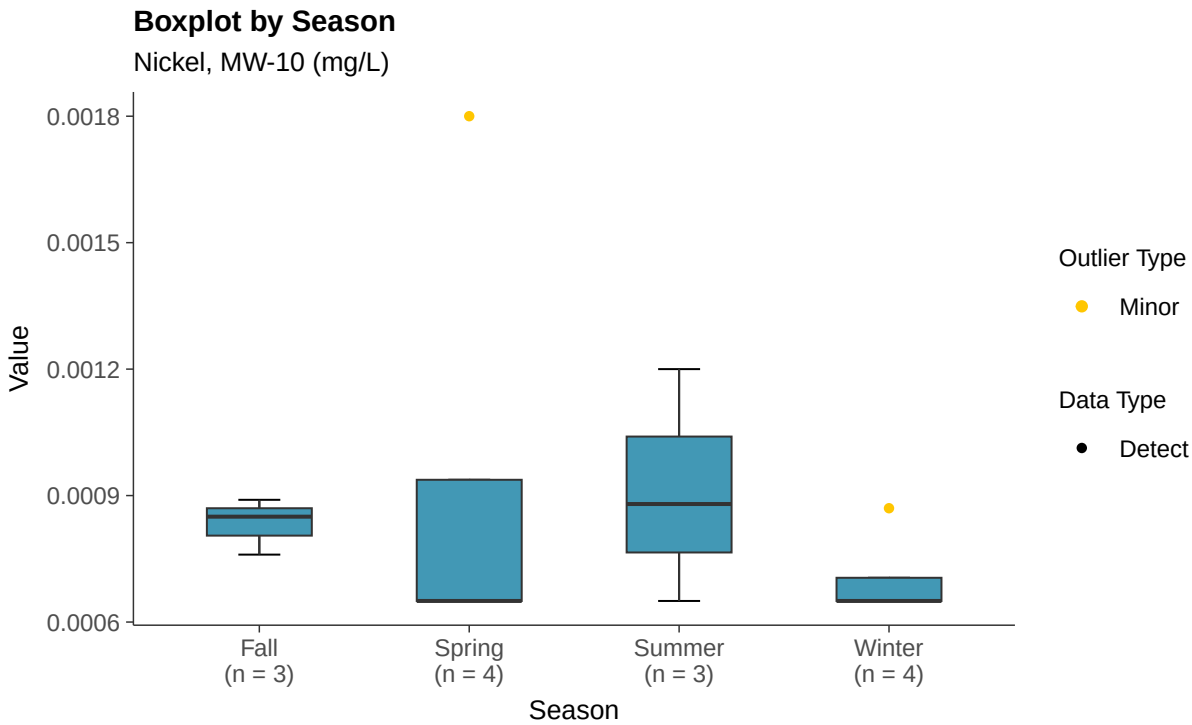
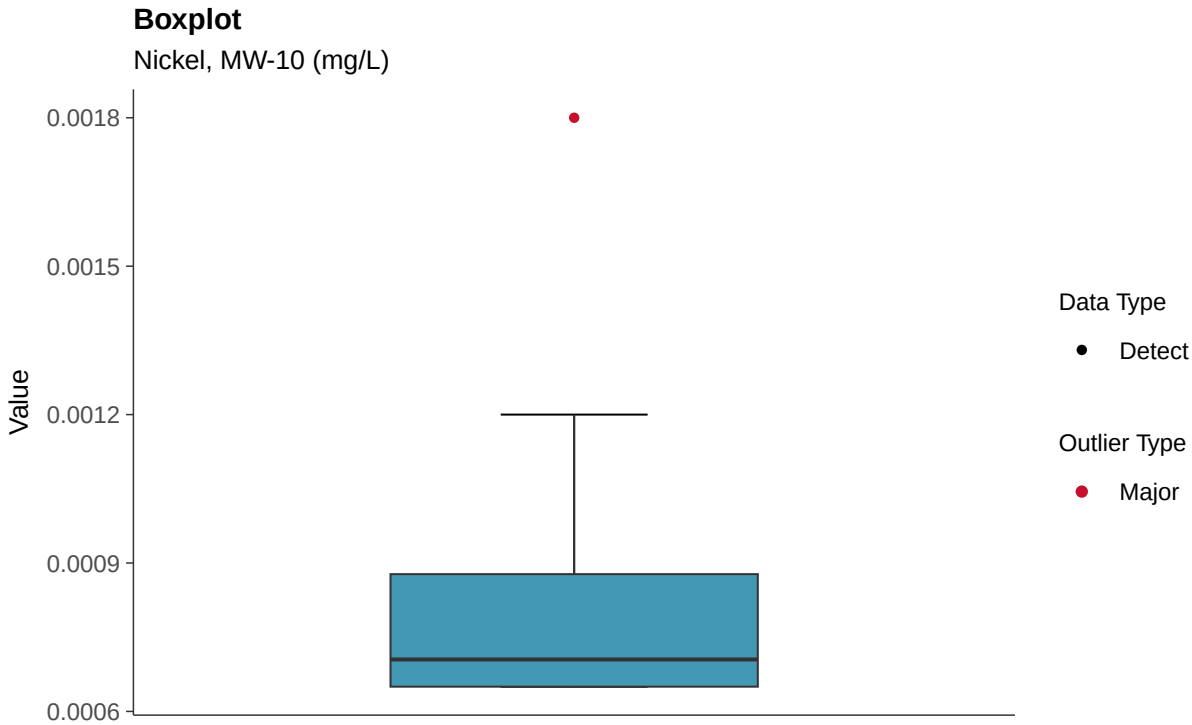




Part 115: Nickel, MW-10

ID: 20_3_5_119

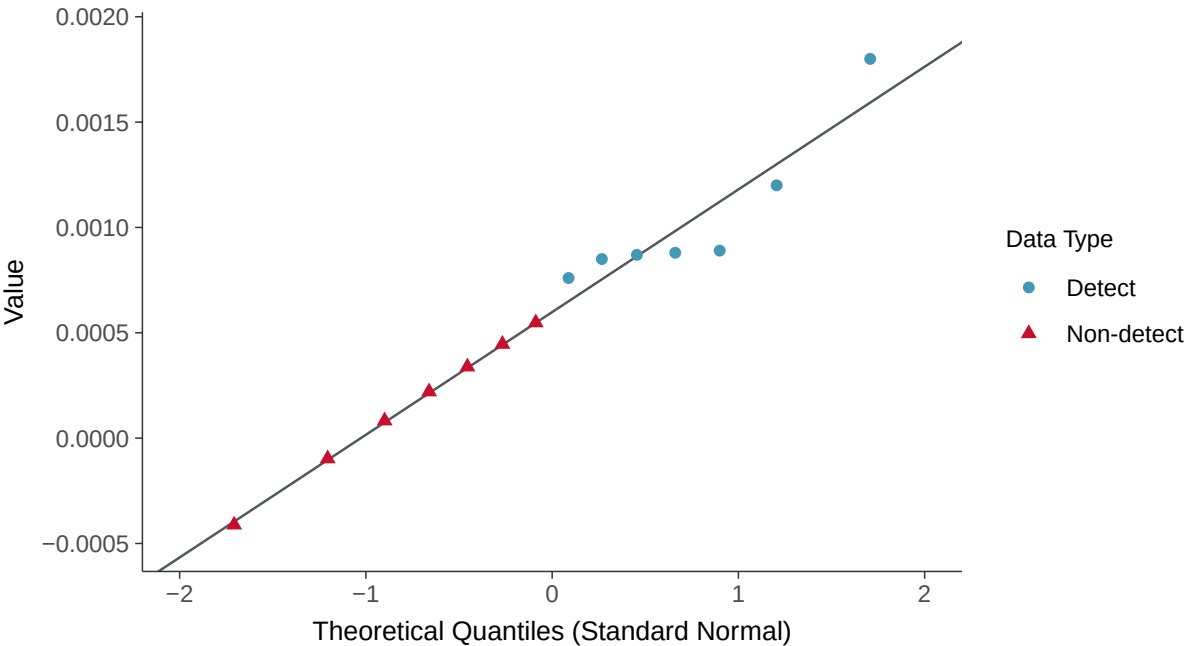






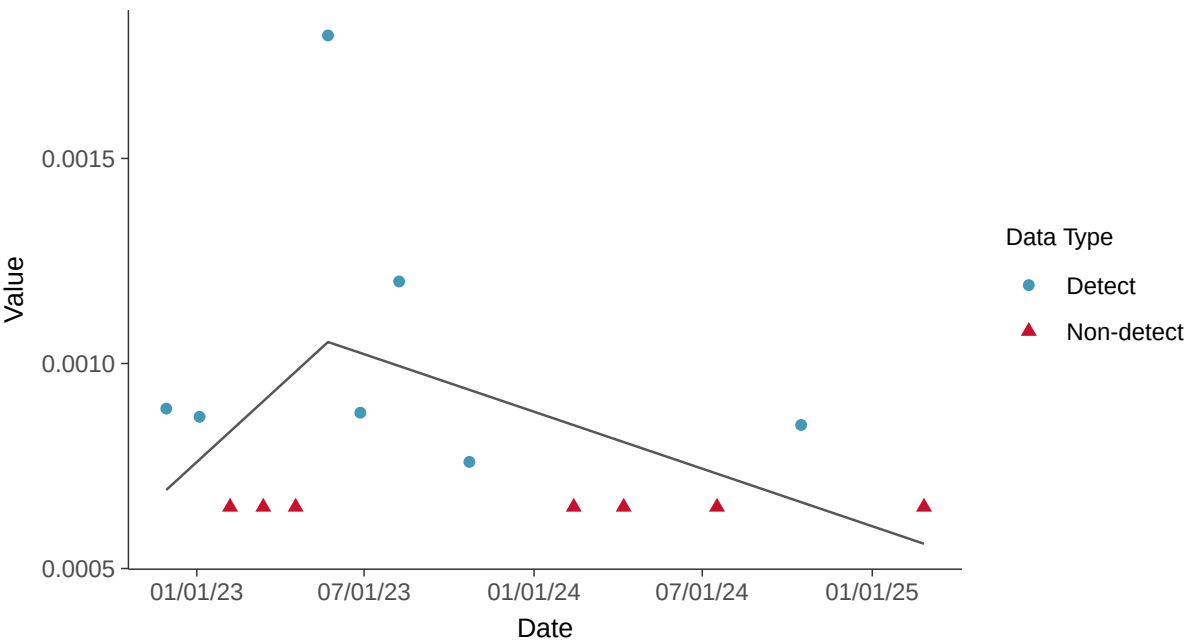
Normal Q-Q plot using ROS Imputed Estimates

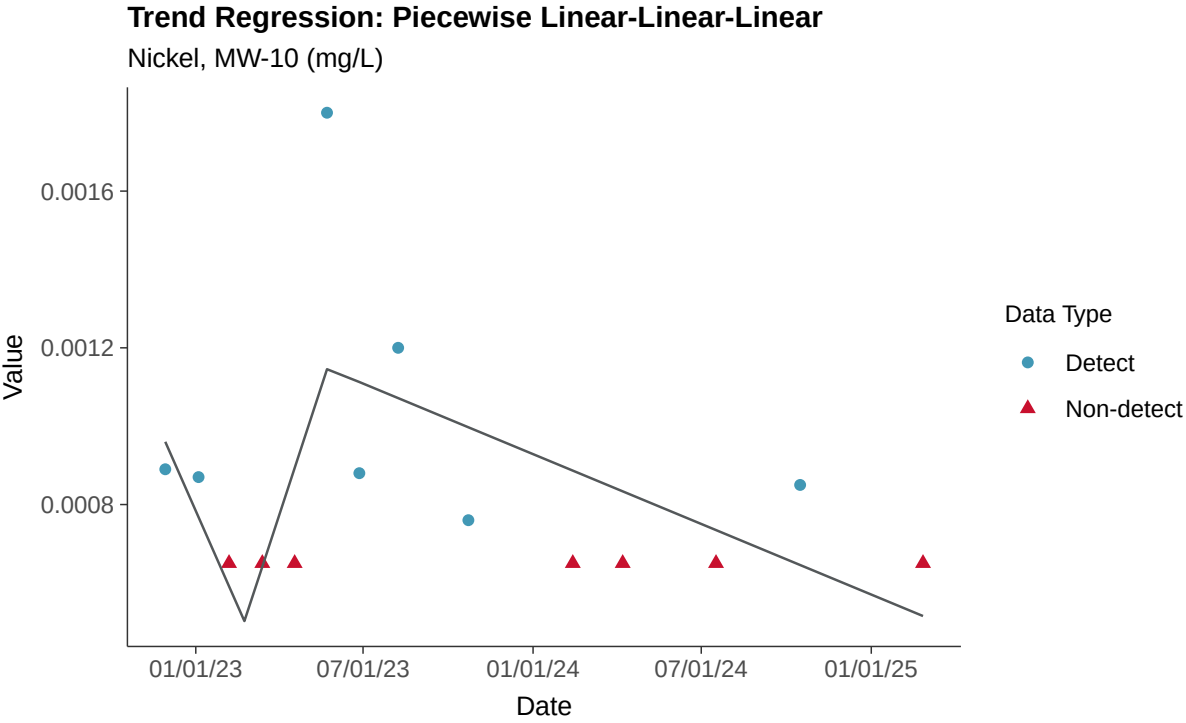
Nickel, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Nickel, MW-10 (mg/L)

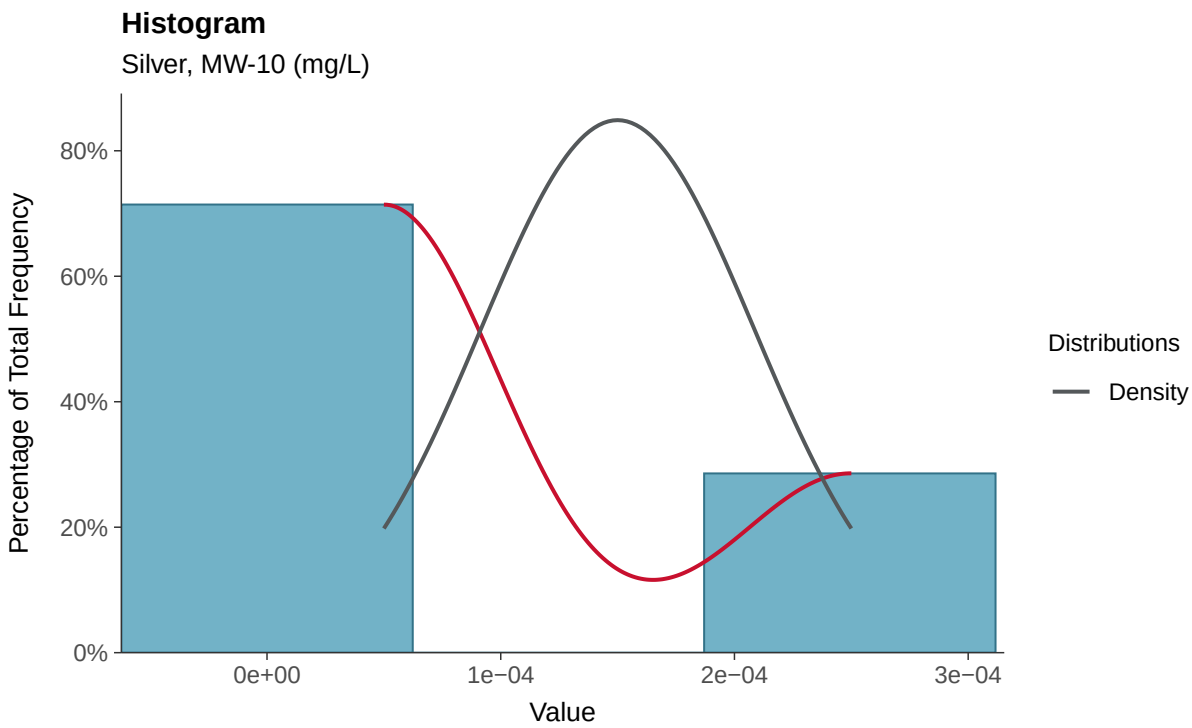
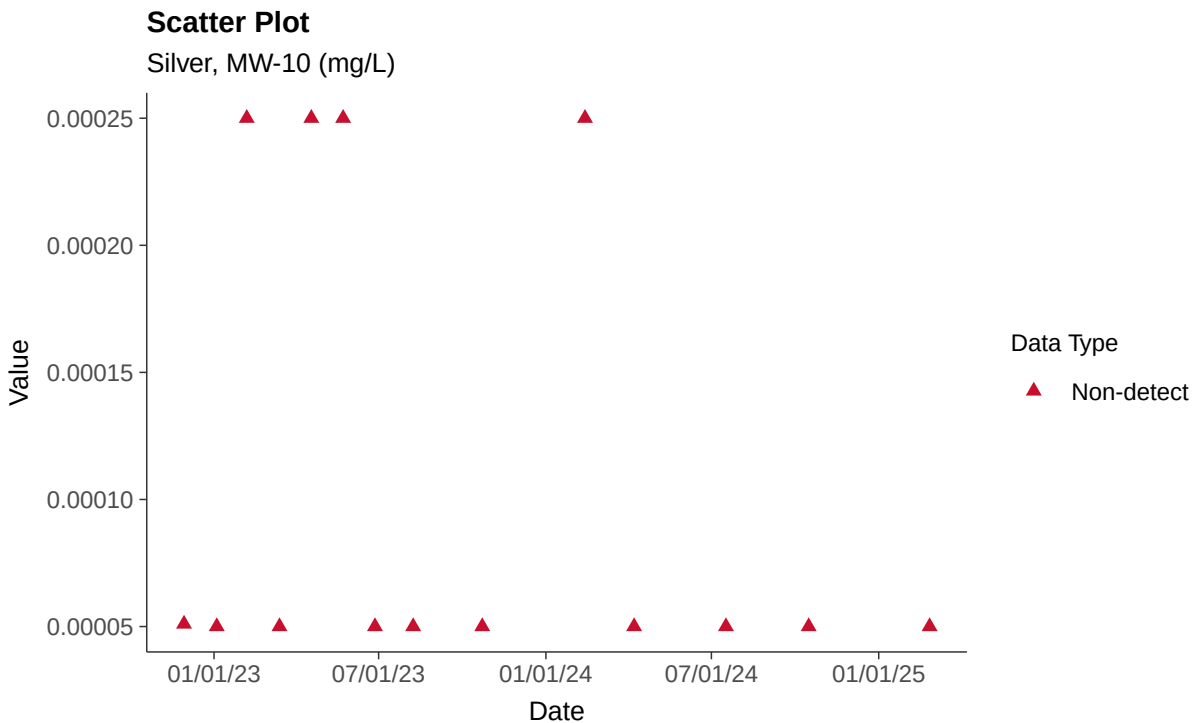


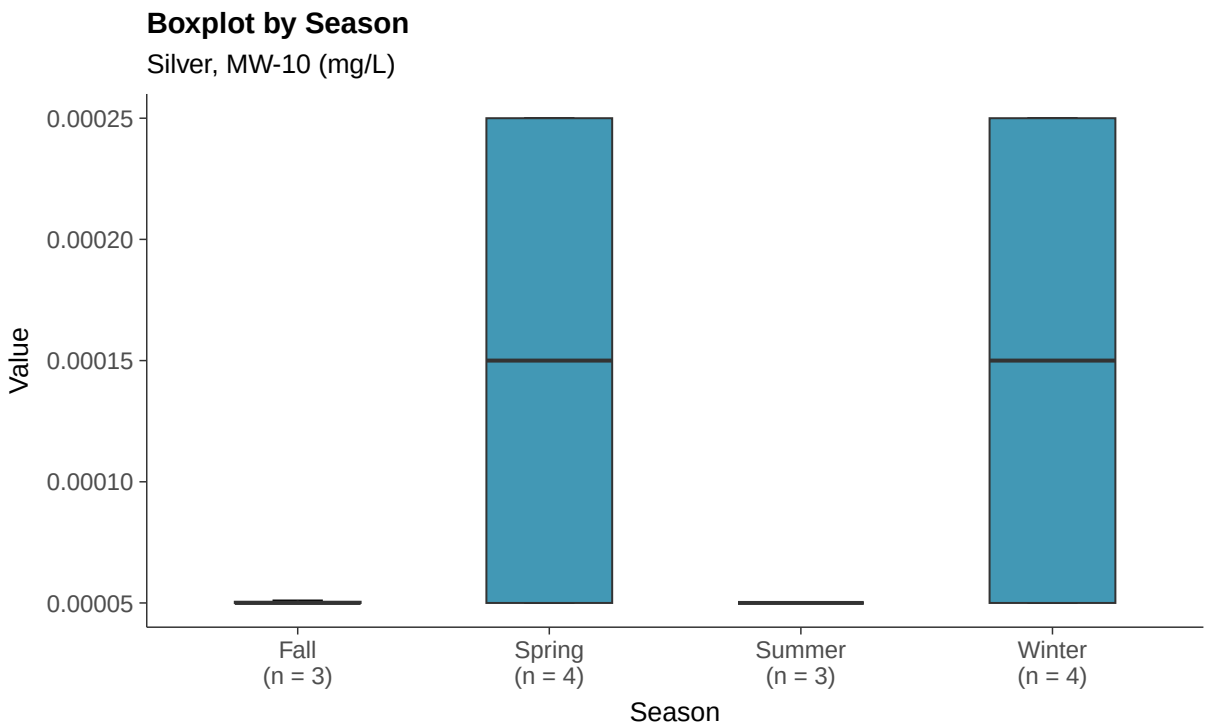
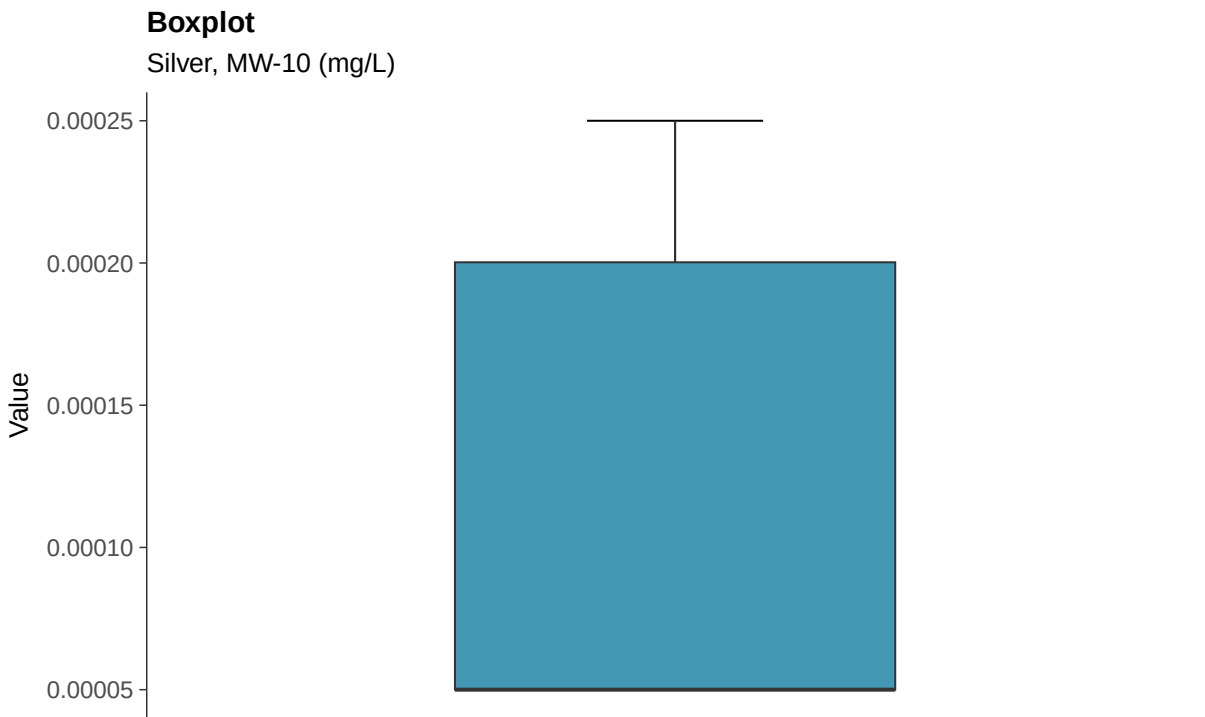




Part 115: Silver, MW-10

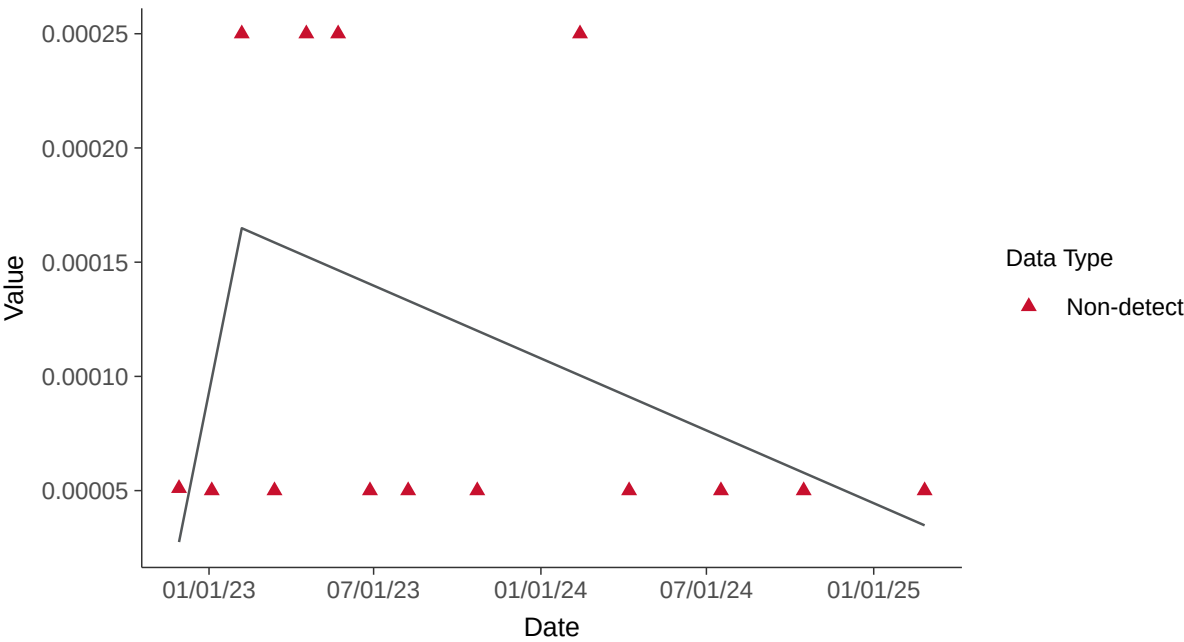
ID: 20_3_5_123



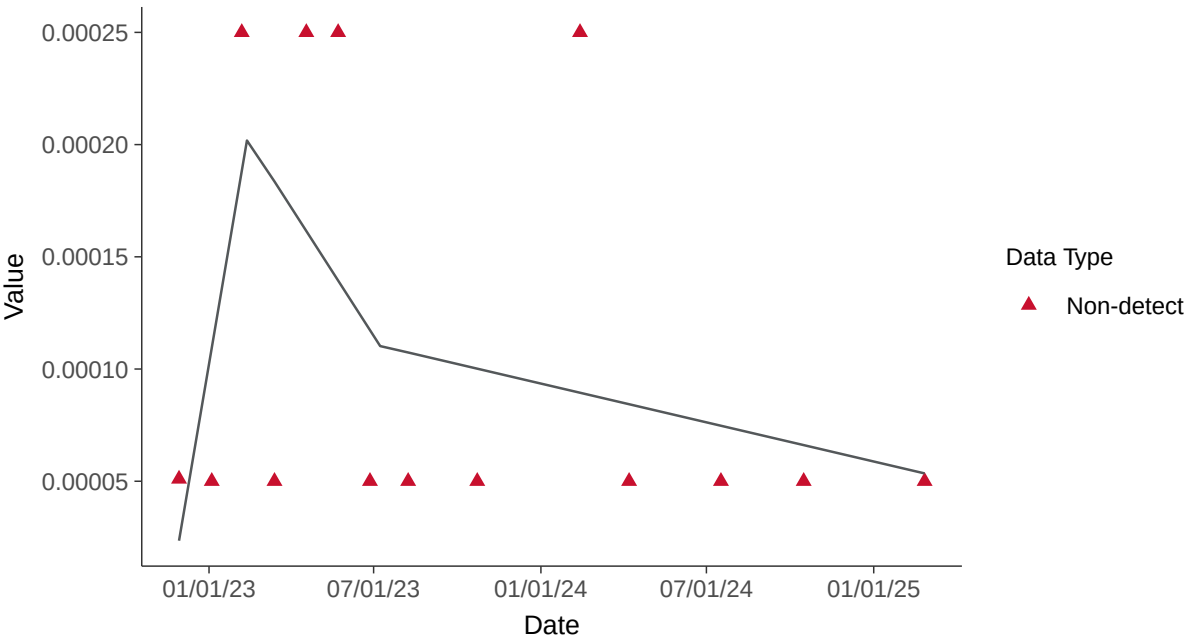




Trend Regression: Piecewise Linear-Linear
Silver, MW-10 (mg/L)



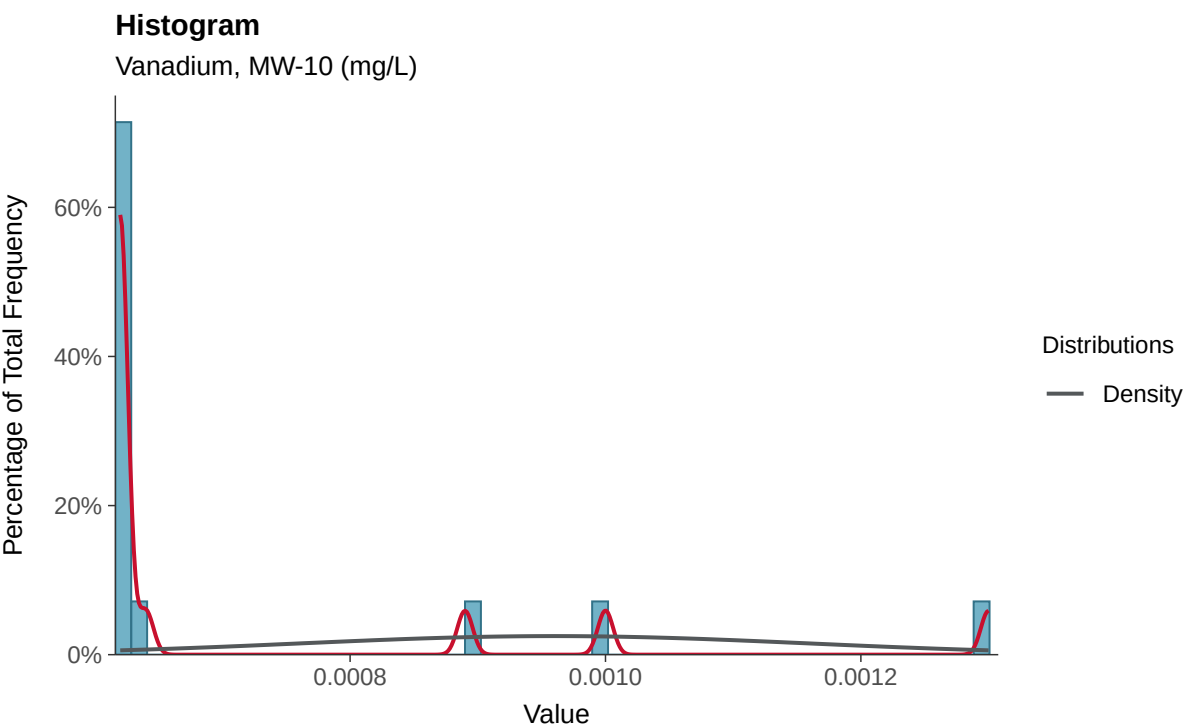
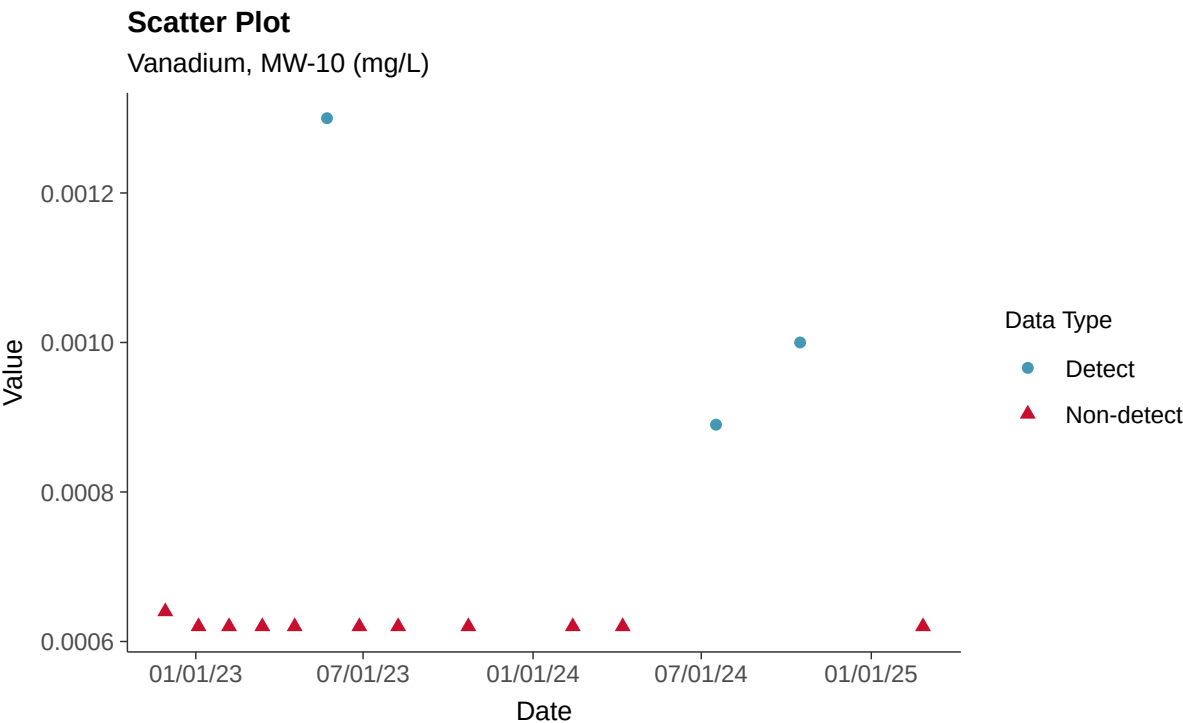
Trend Regression: Piecewise Linear-Linear-Linear
Silver, MW-10 (mg/L)

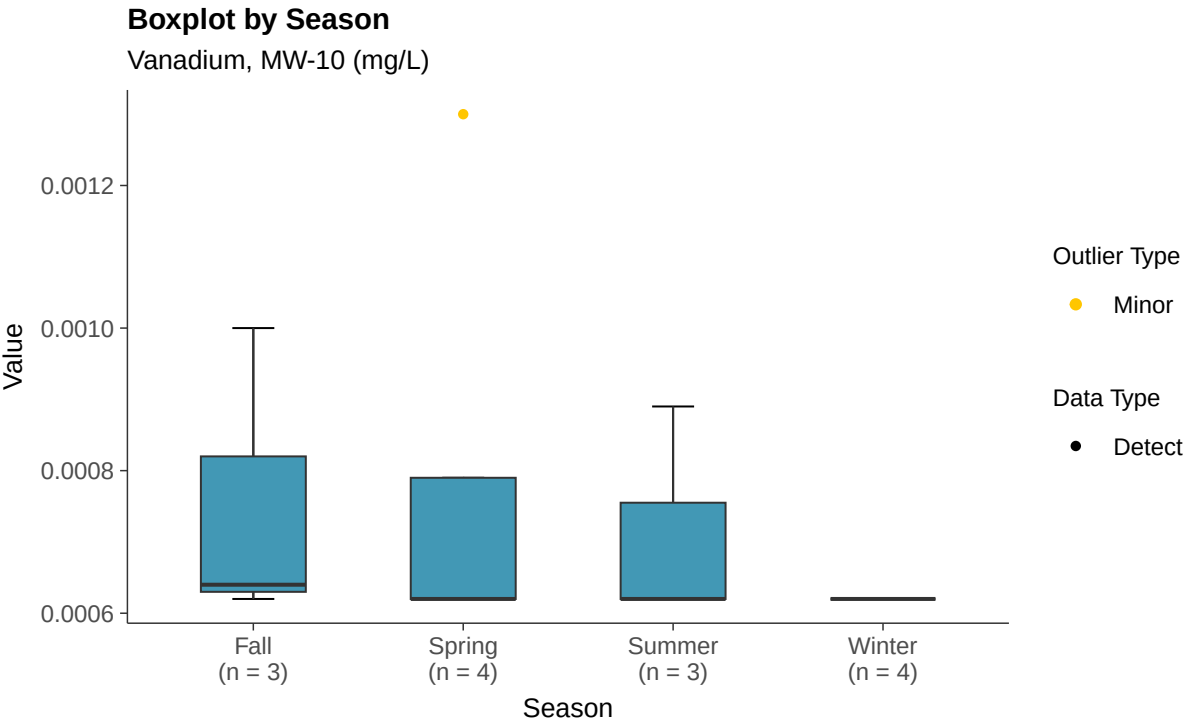
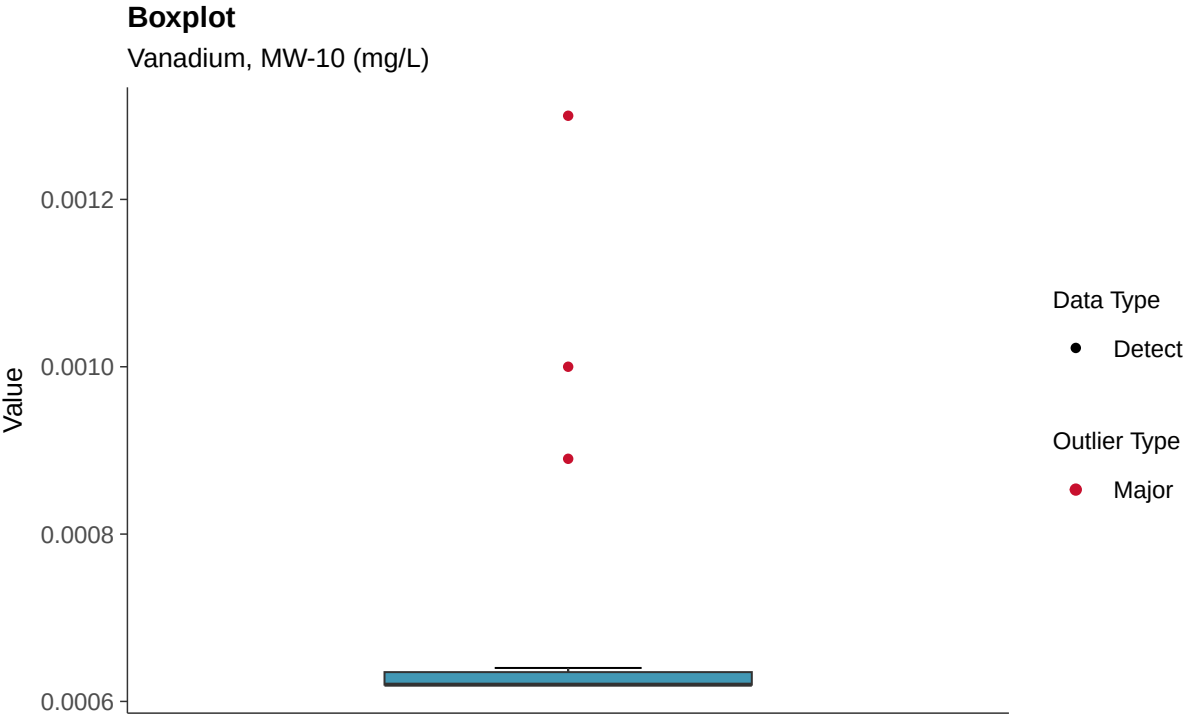




Part 115: Vanadium, MW-10

ID: 20_3_5_128

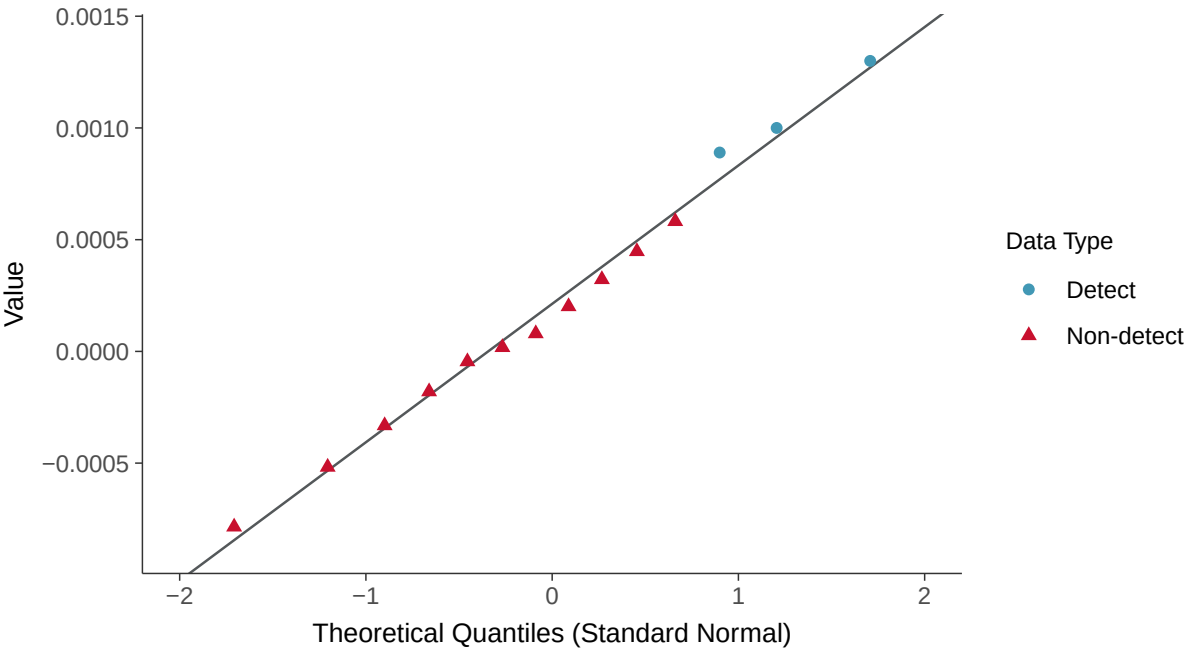






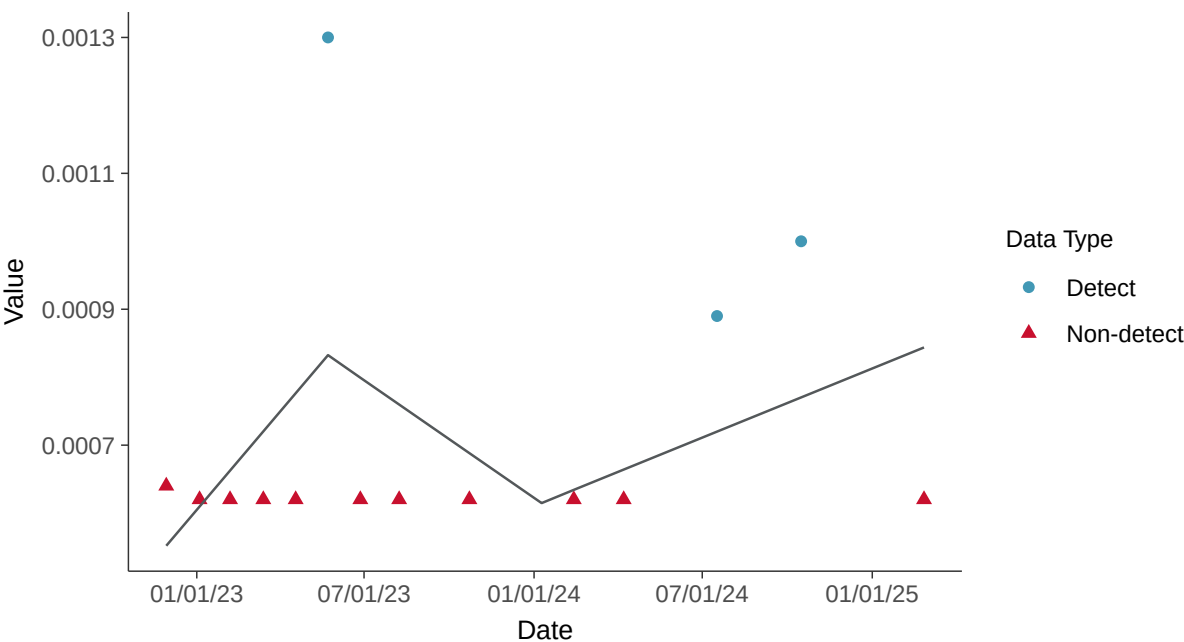
Normal Q-Q plot using ROS Imputed Estimates

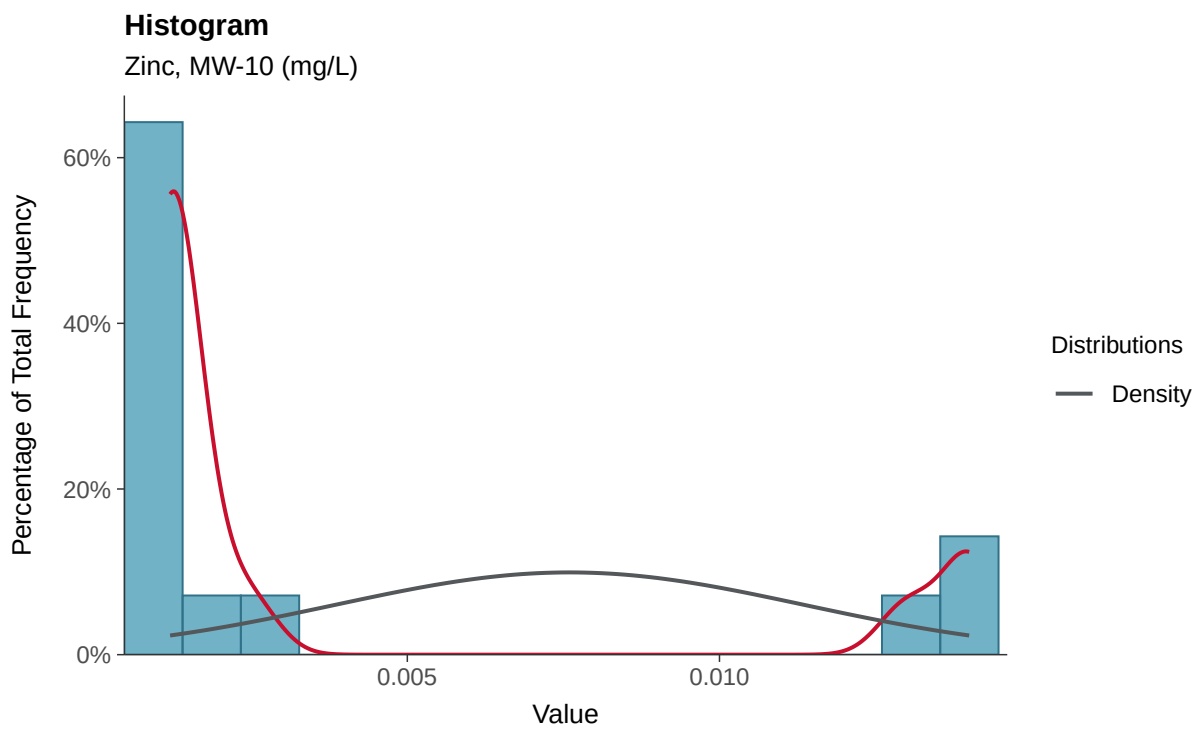
Vanadium, MW-10 (mg/L)

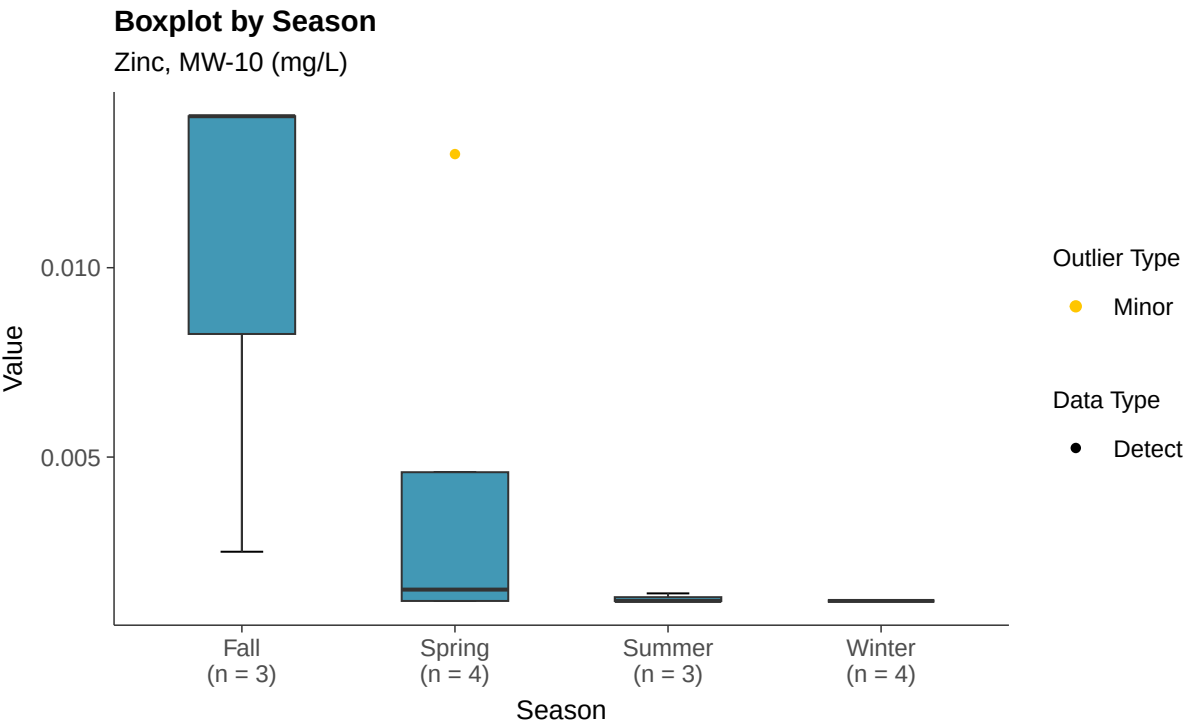
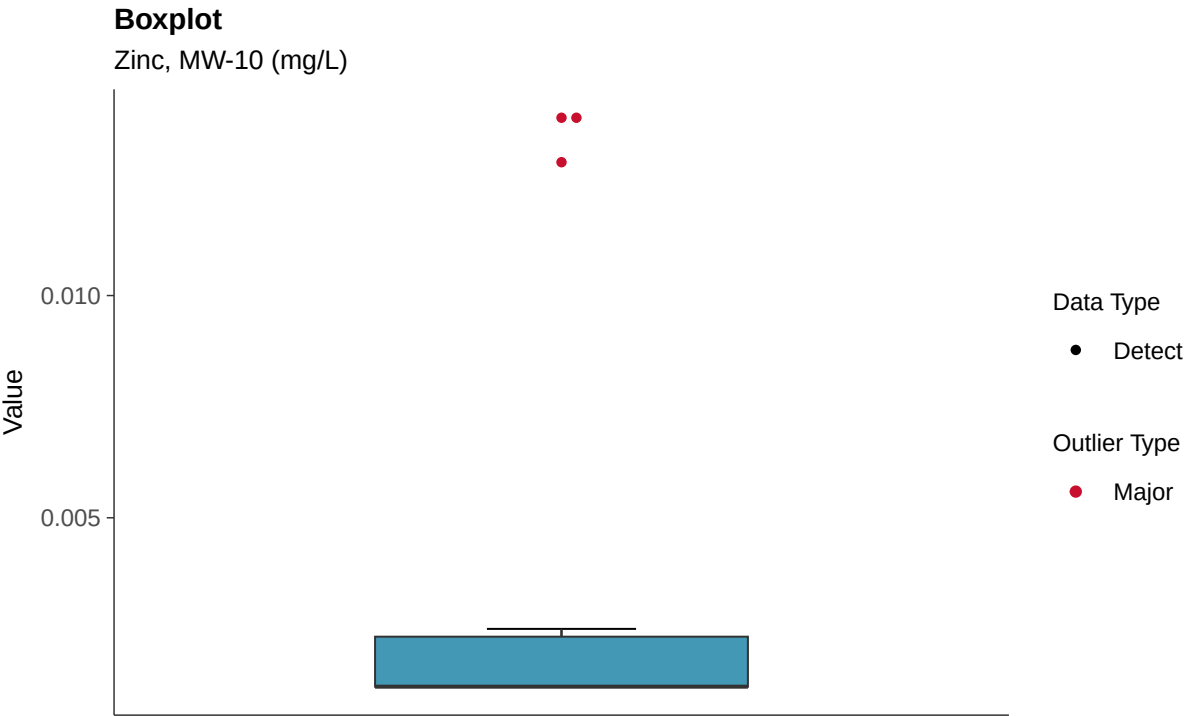


Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-10 (mg/L)



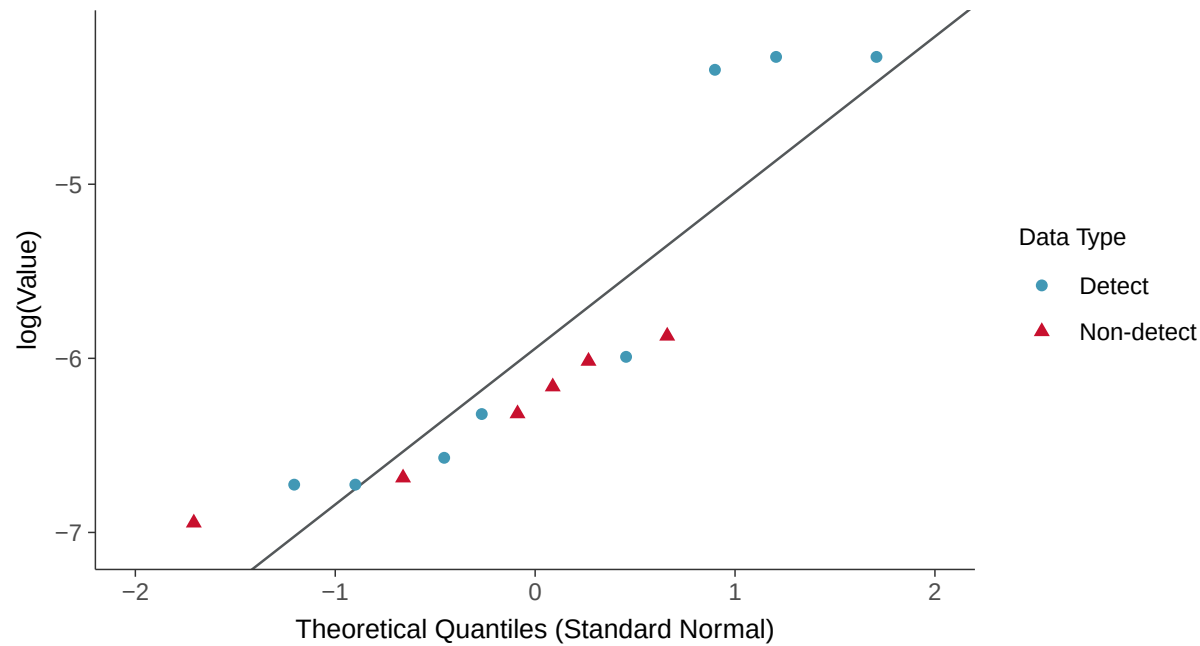






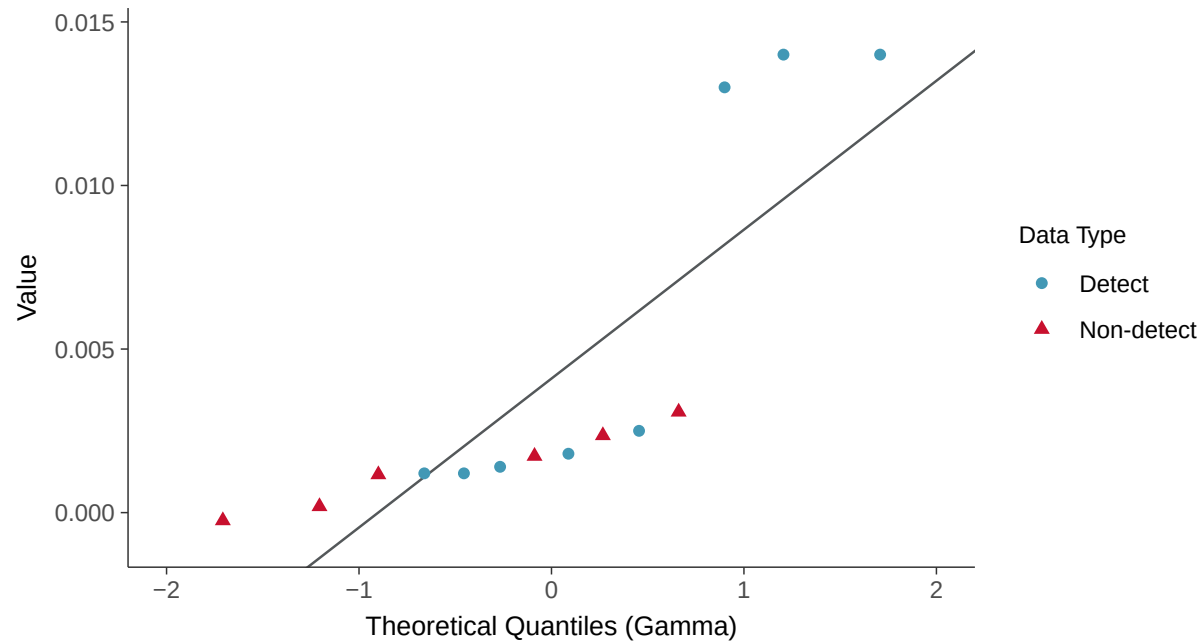
Lognormal Q-Q plot using ROS Imputed Estimates

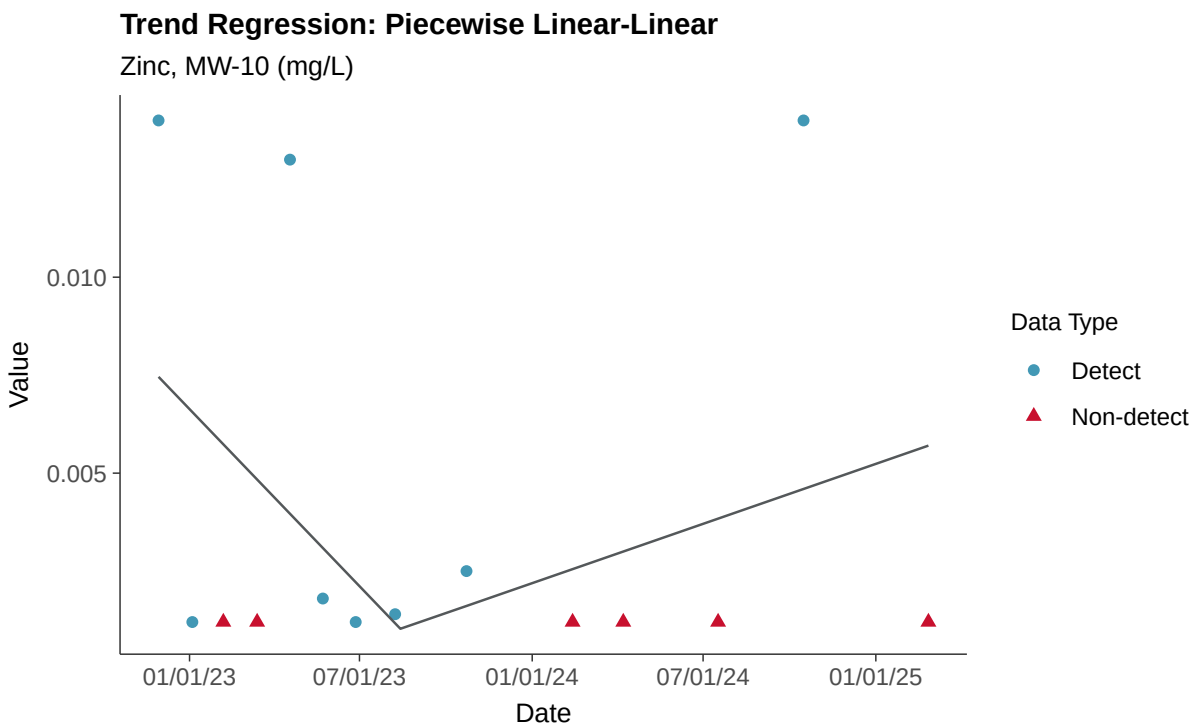
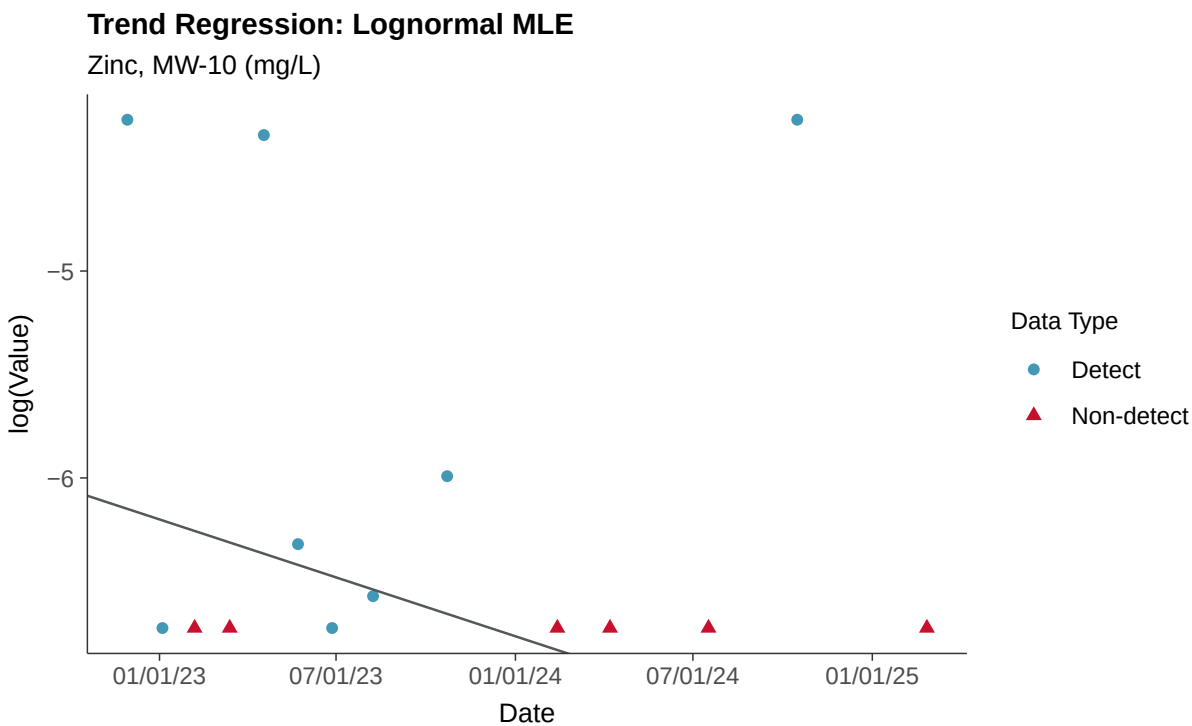
Zinc, MW-10 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-10 (mg/L)

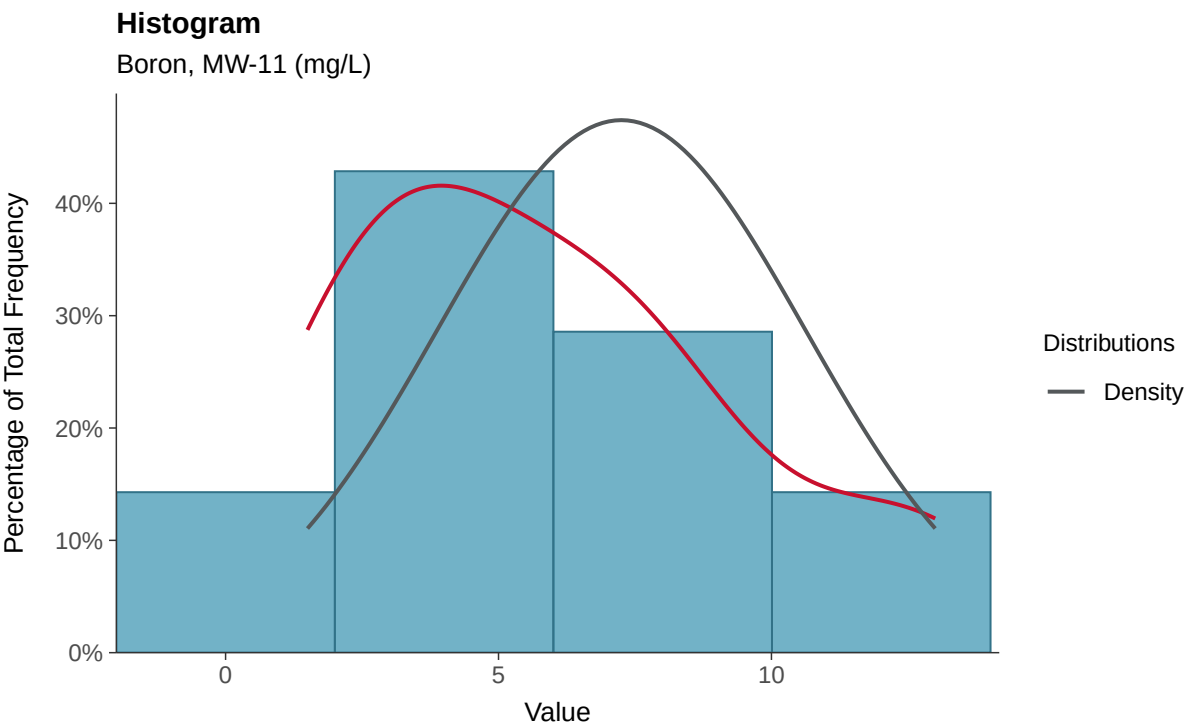
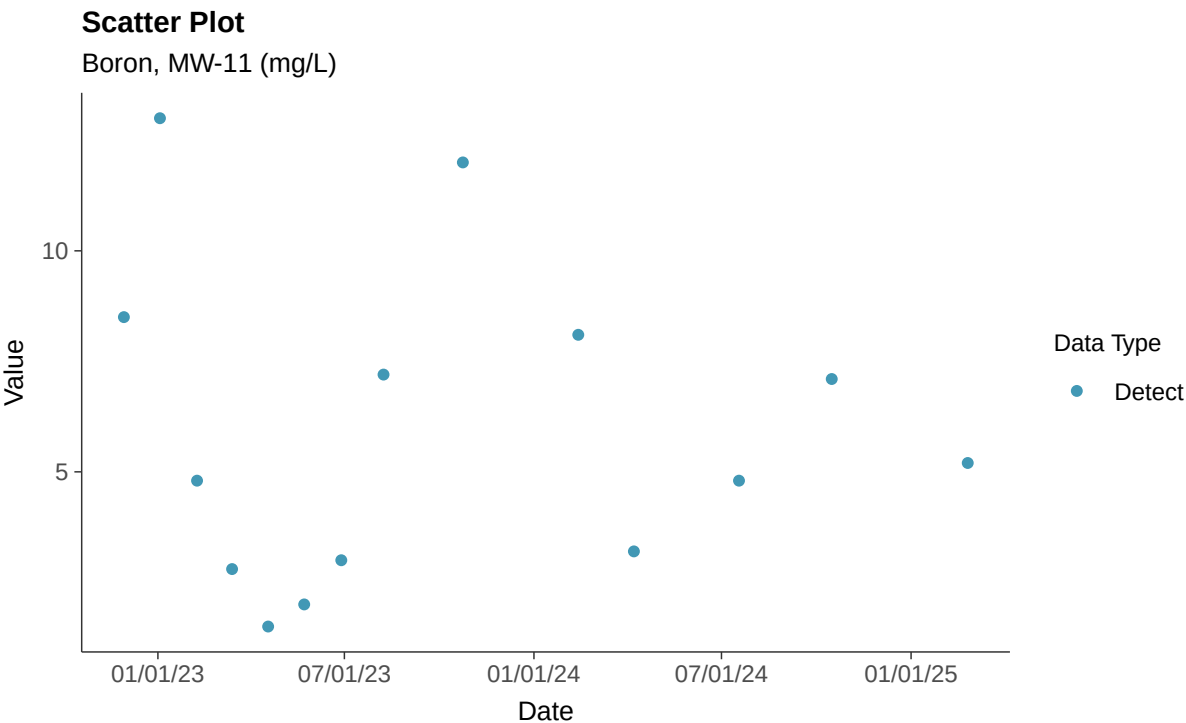


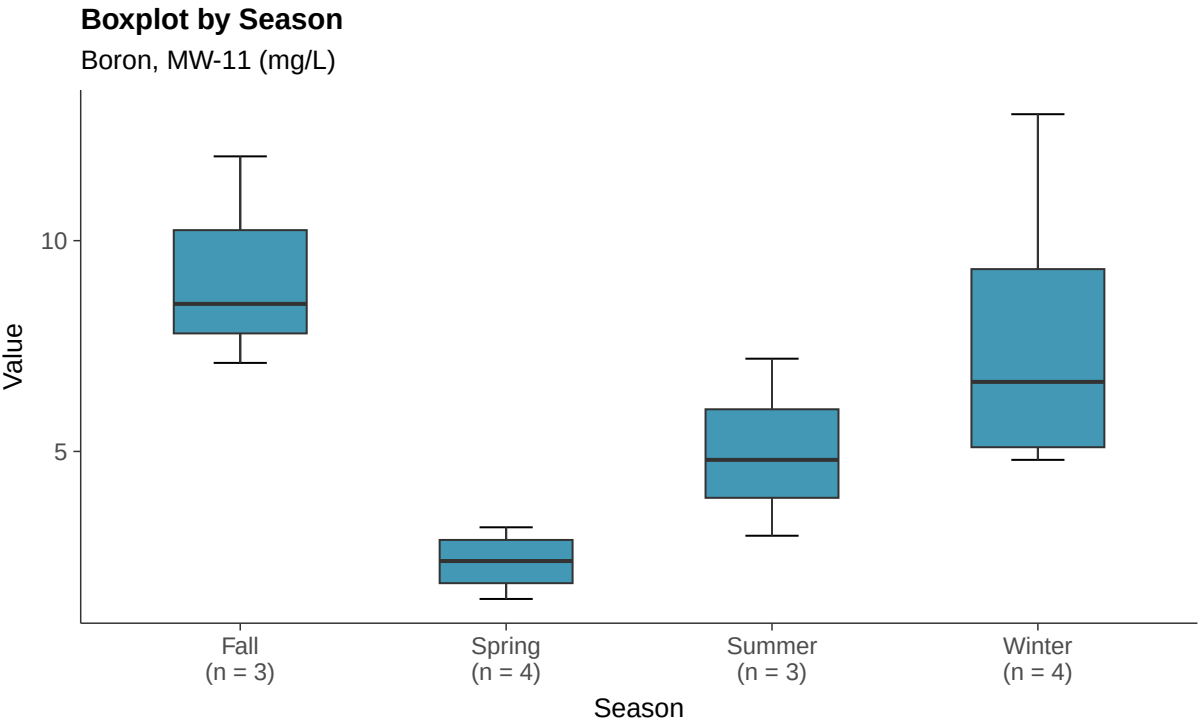
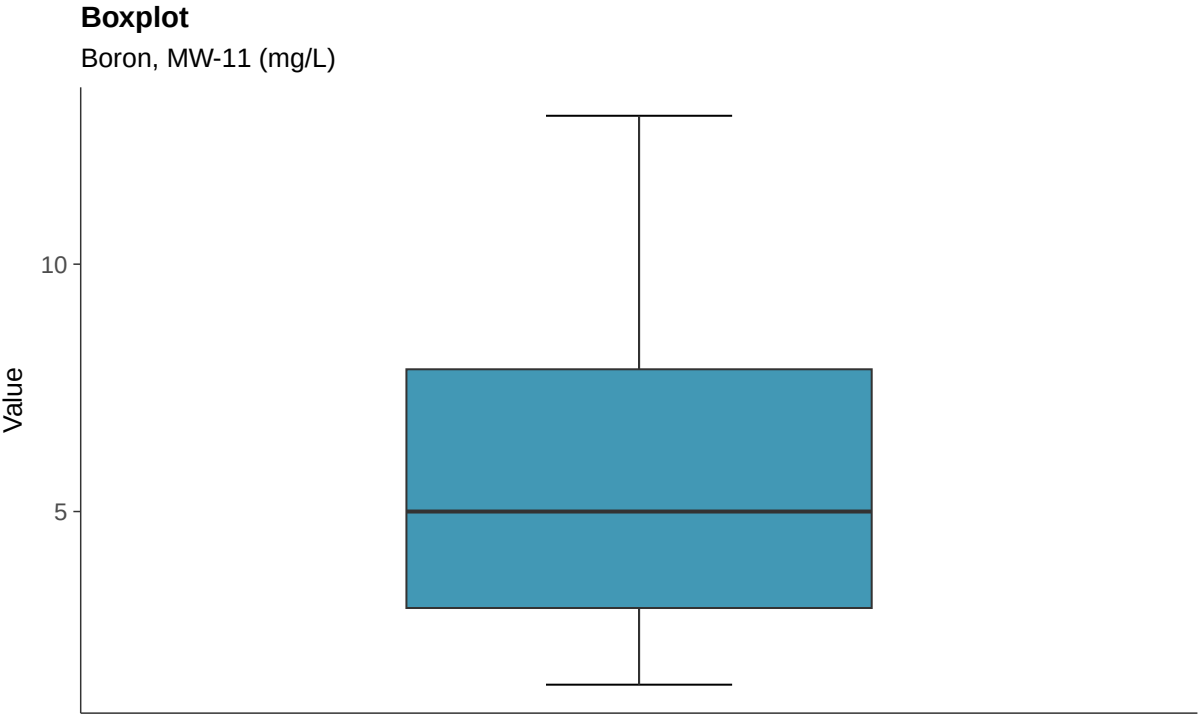


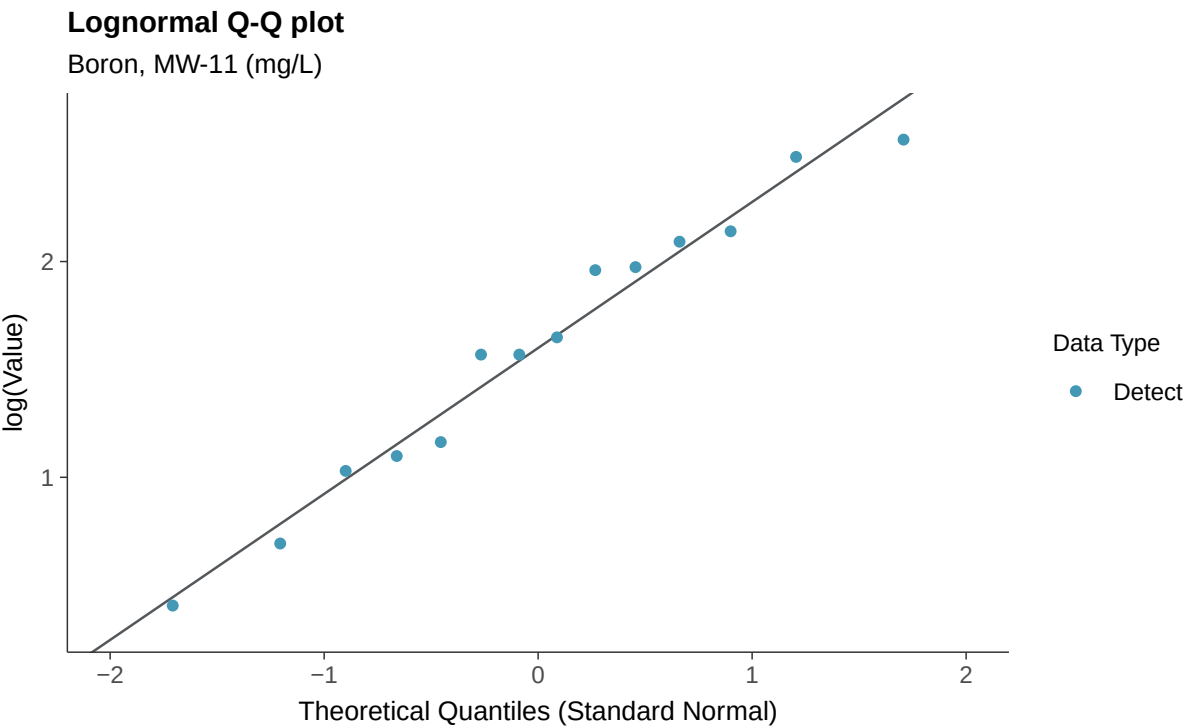
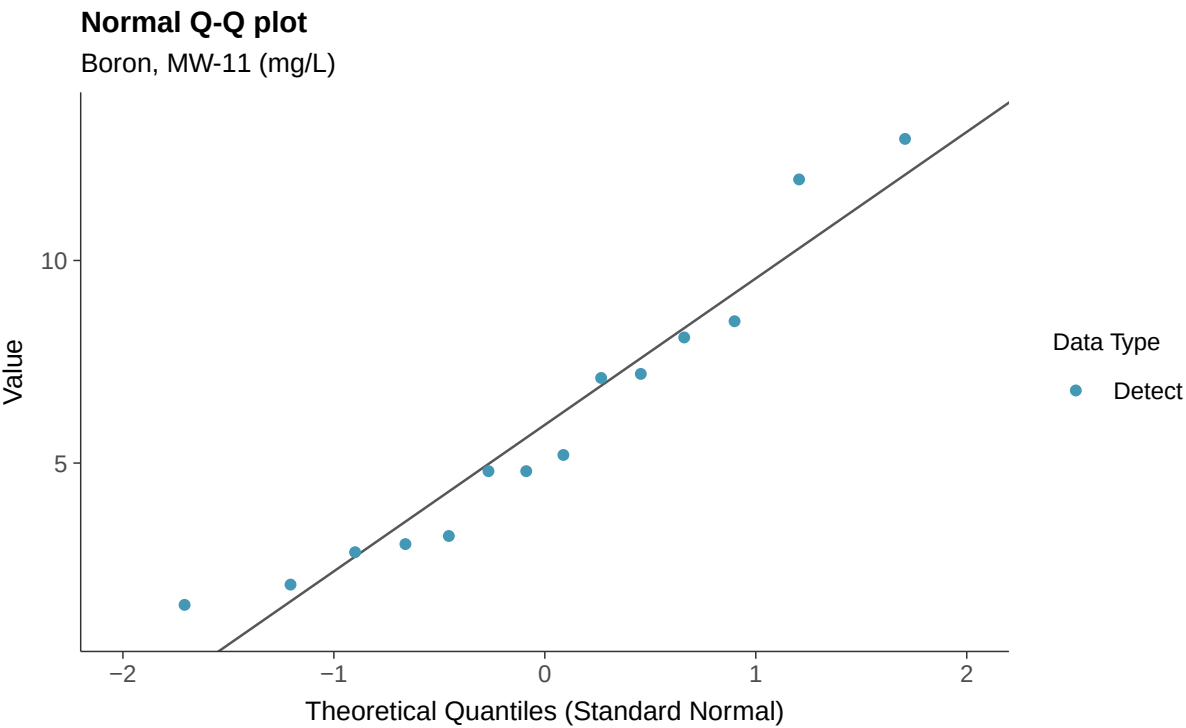


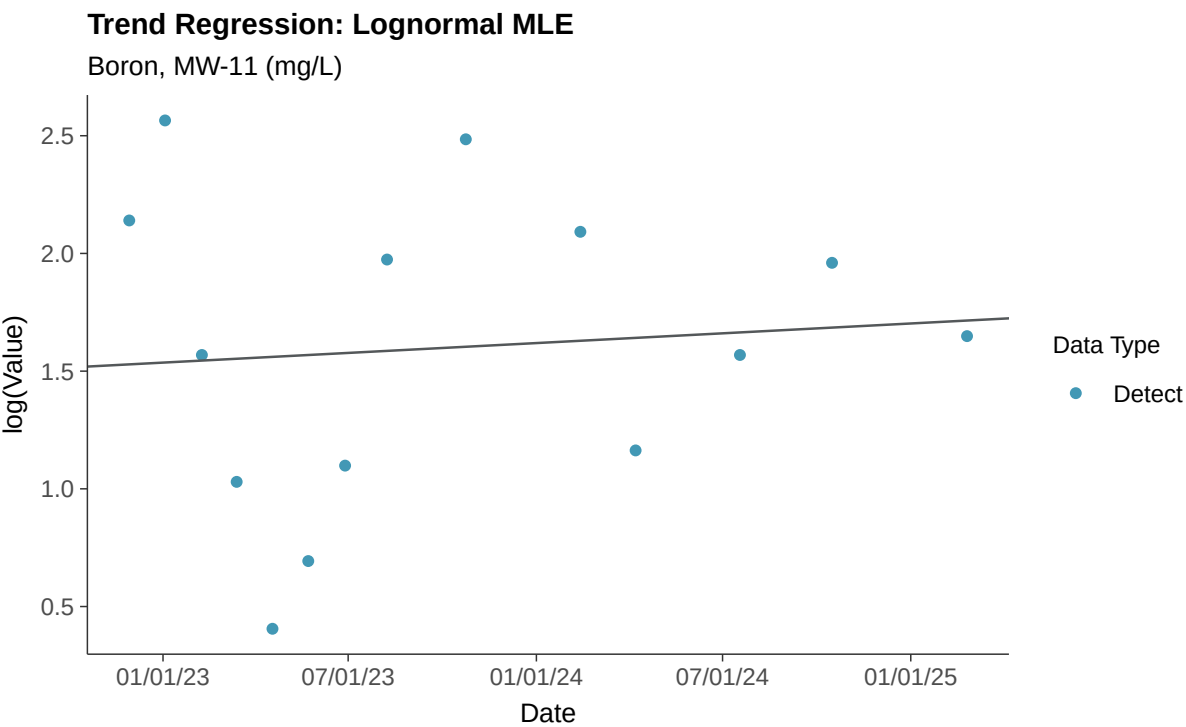
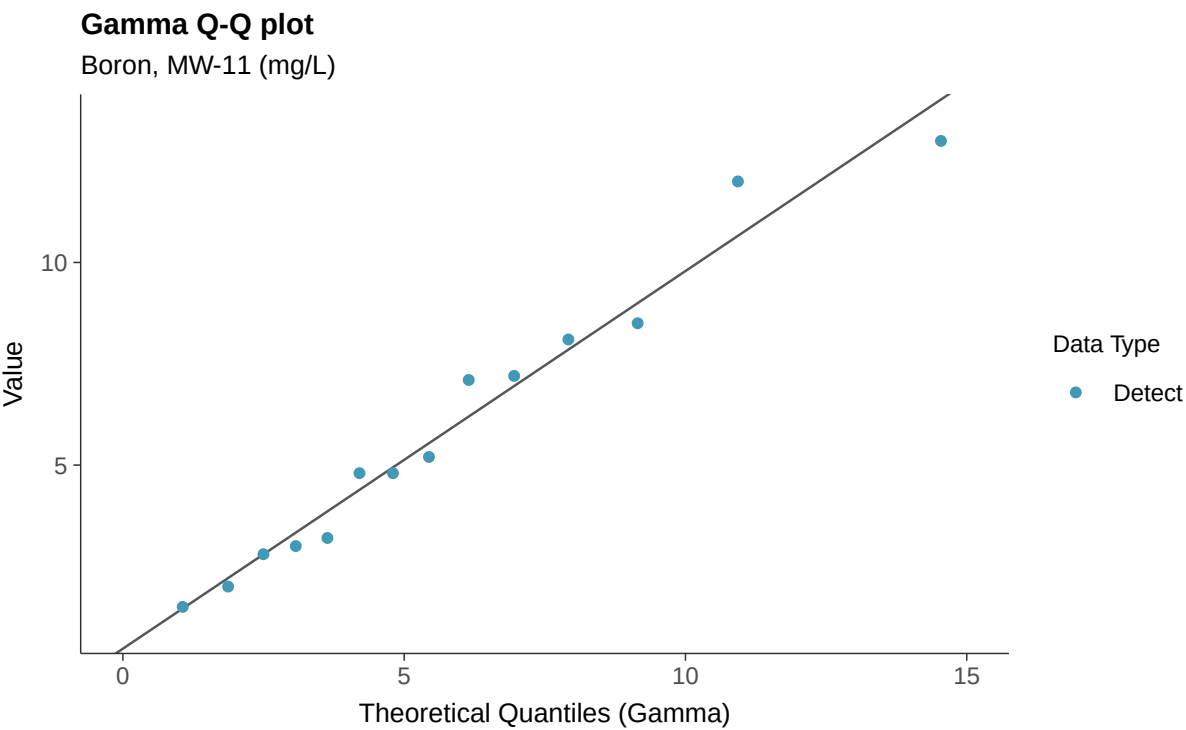
Appendix III: Boron, MW-11

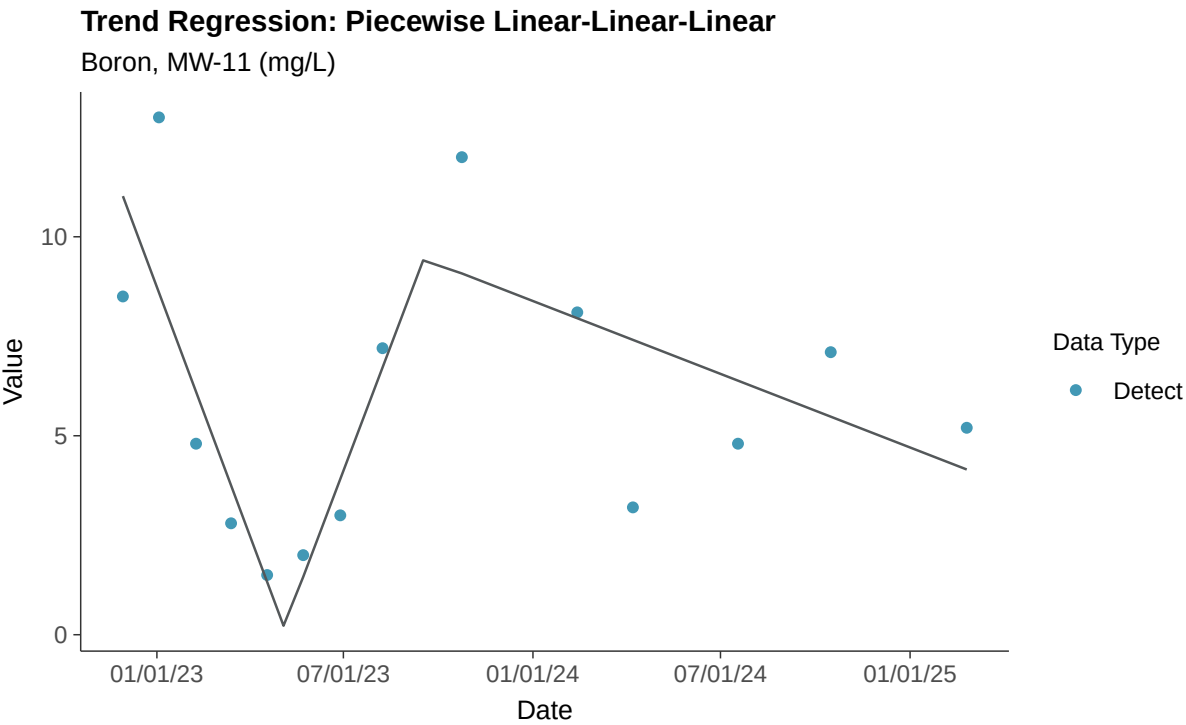
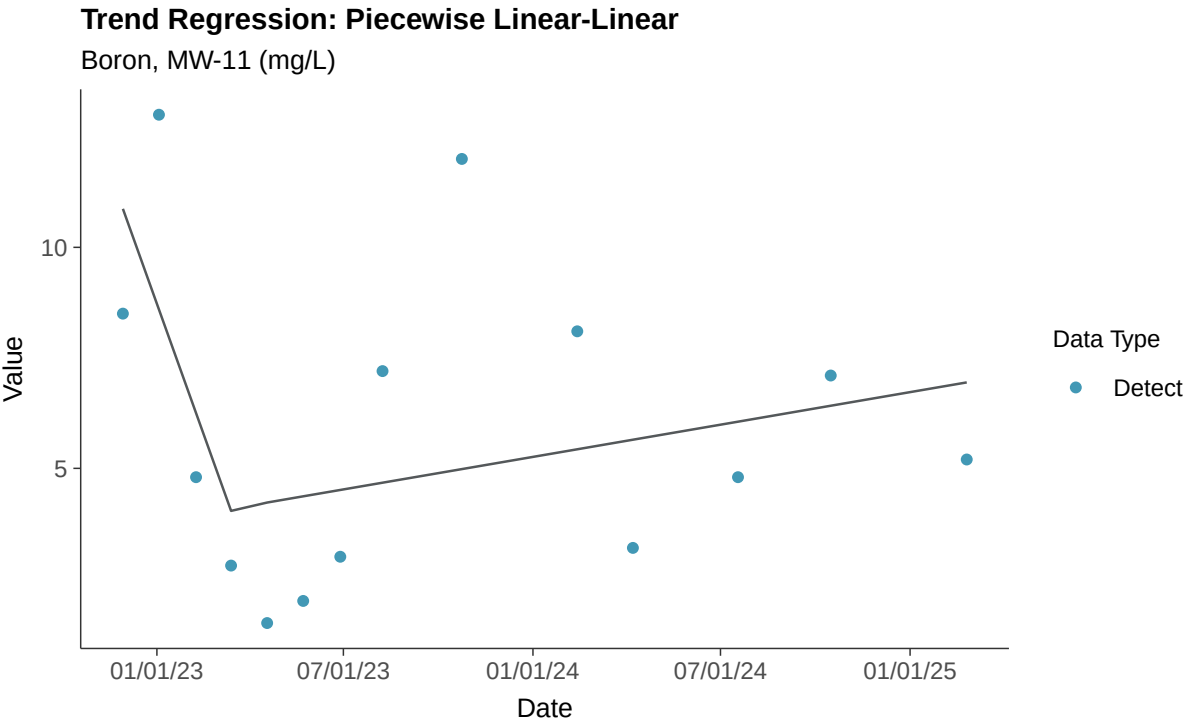
ID: 21_2_3_105







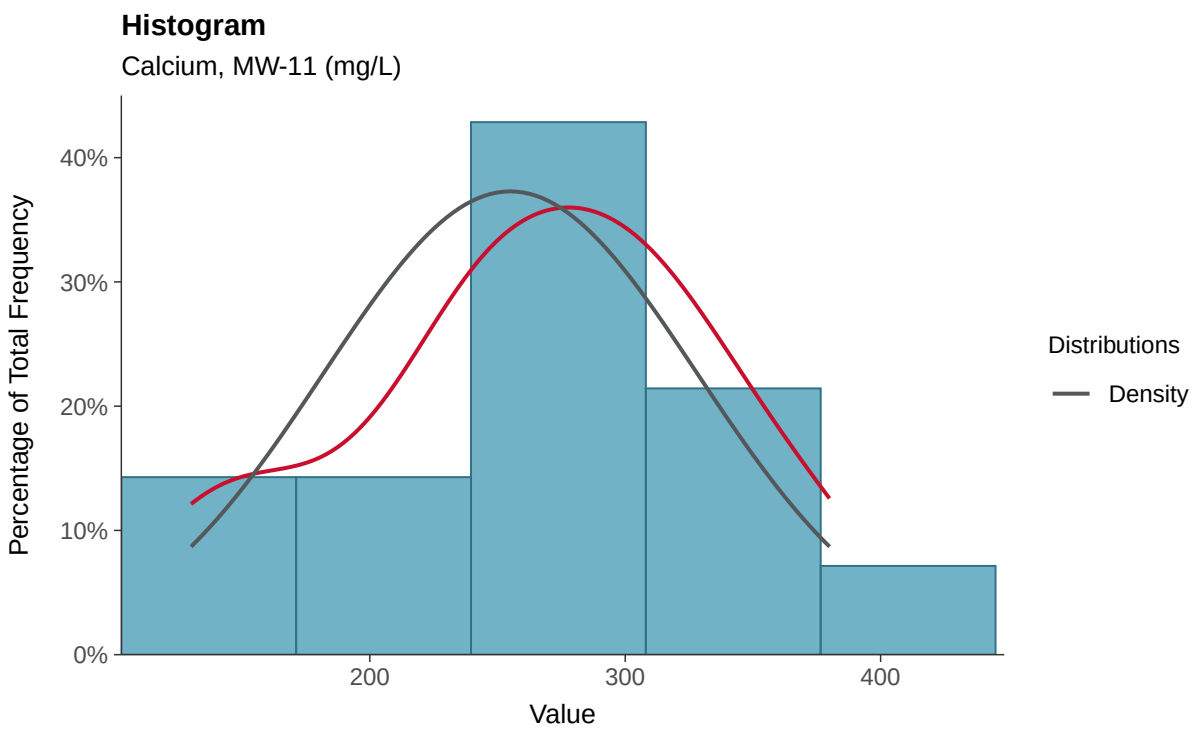
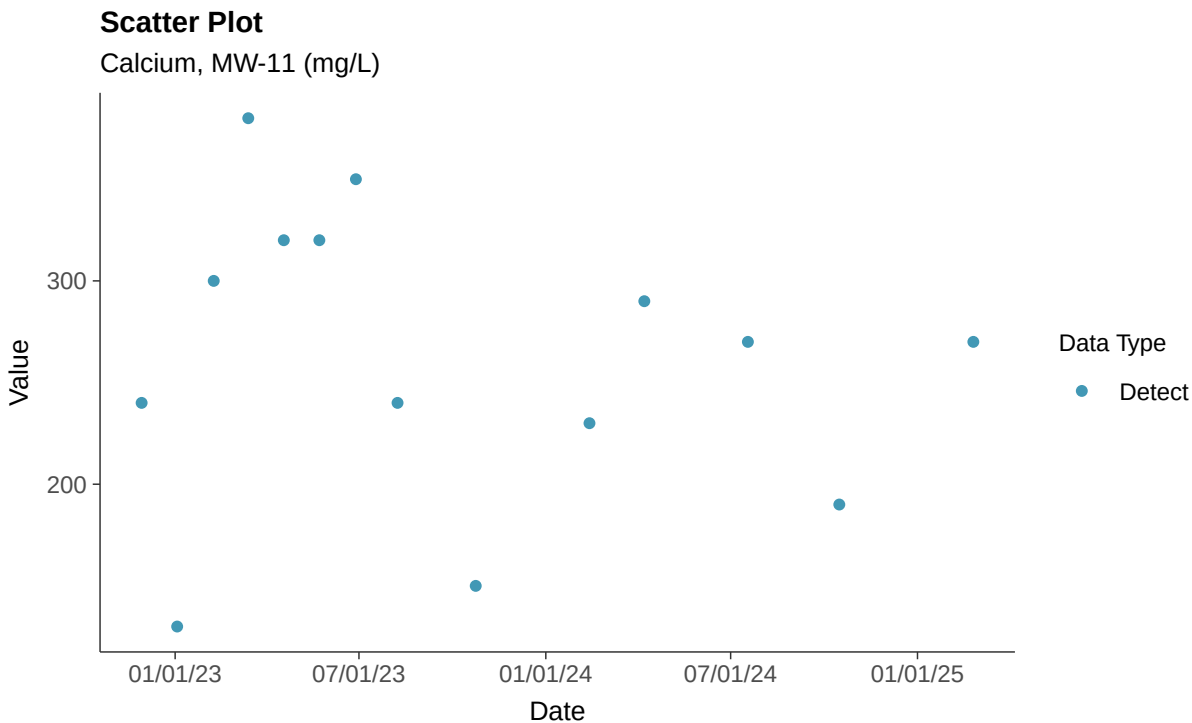


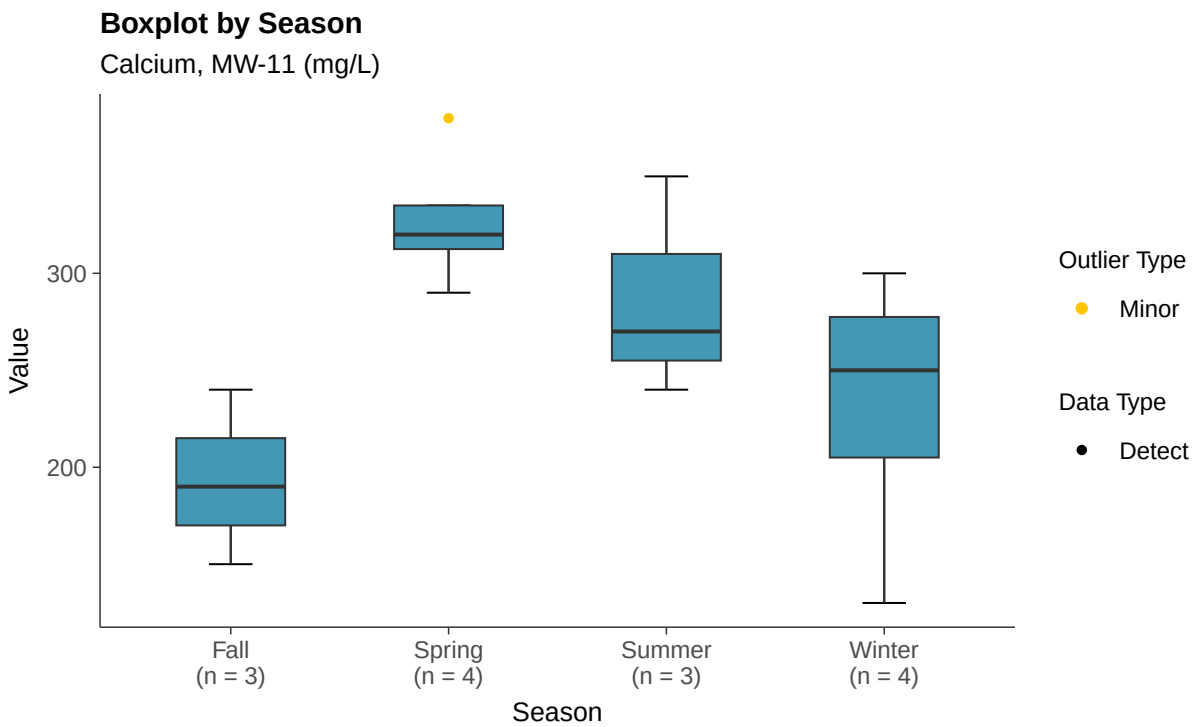
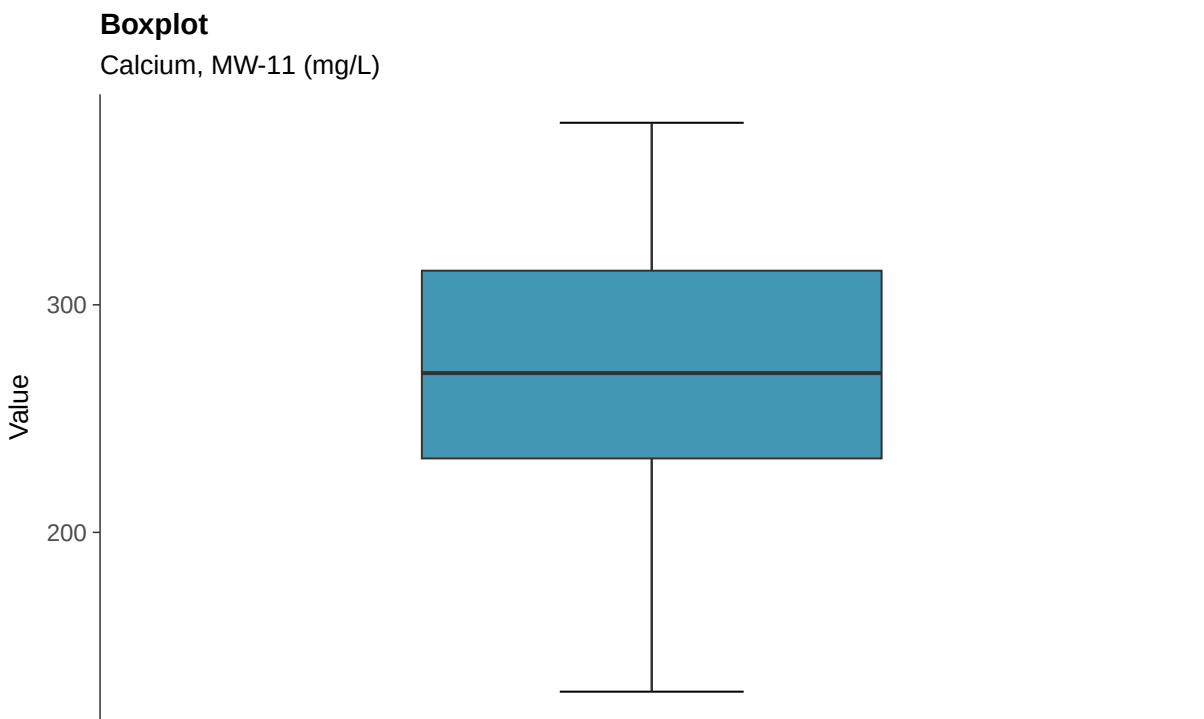


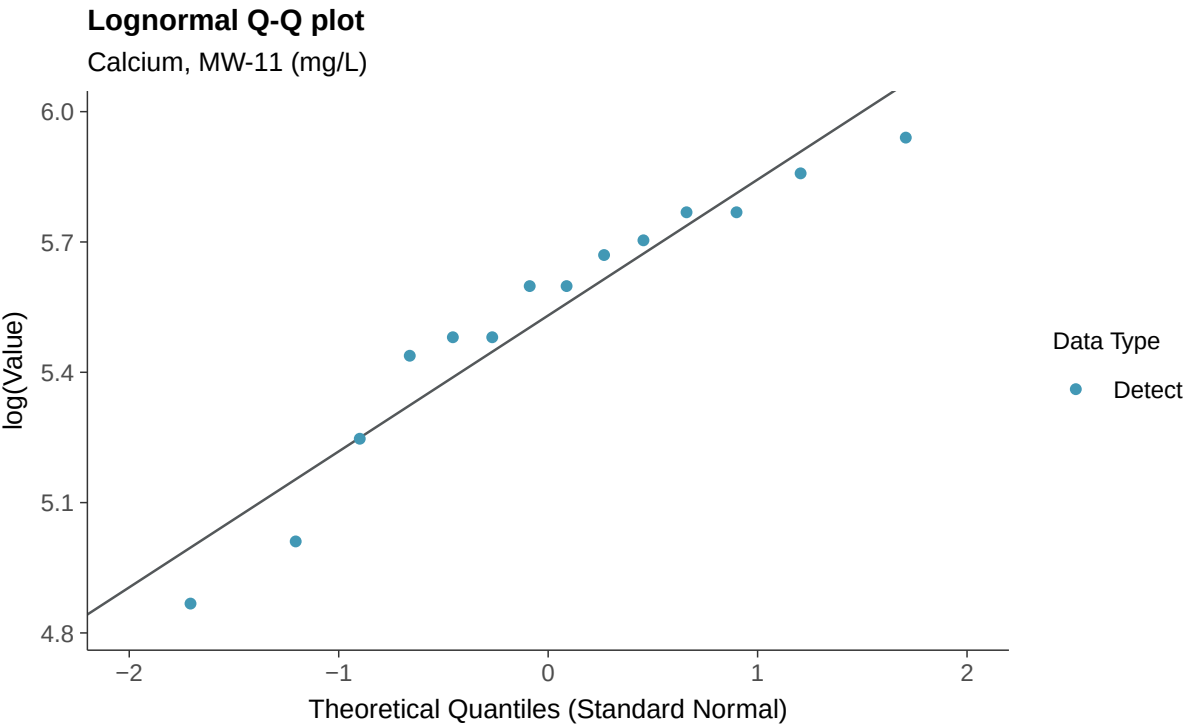
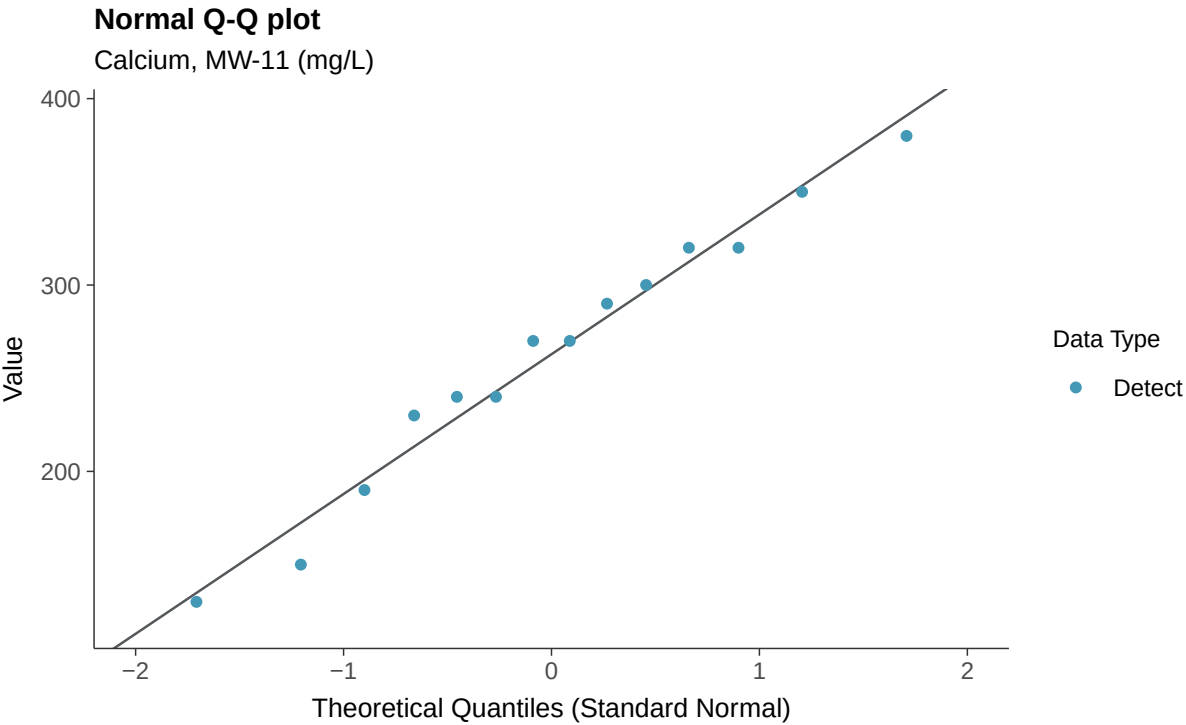


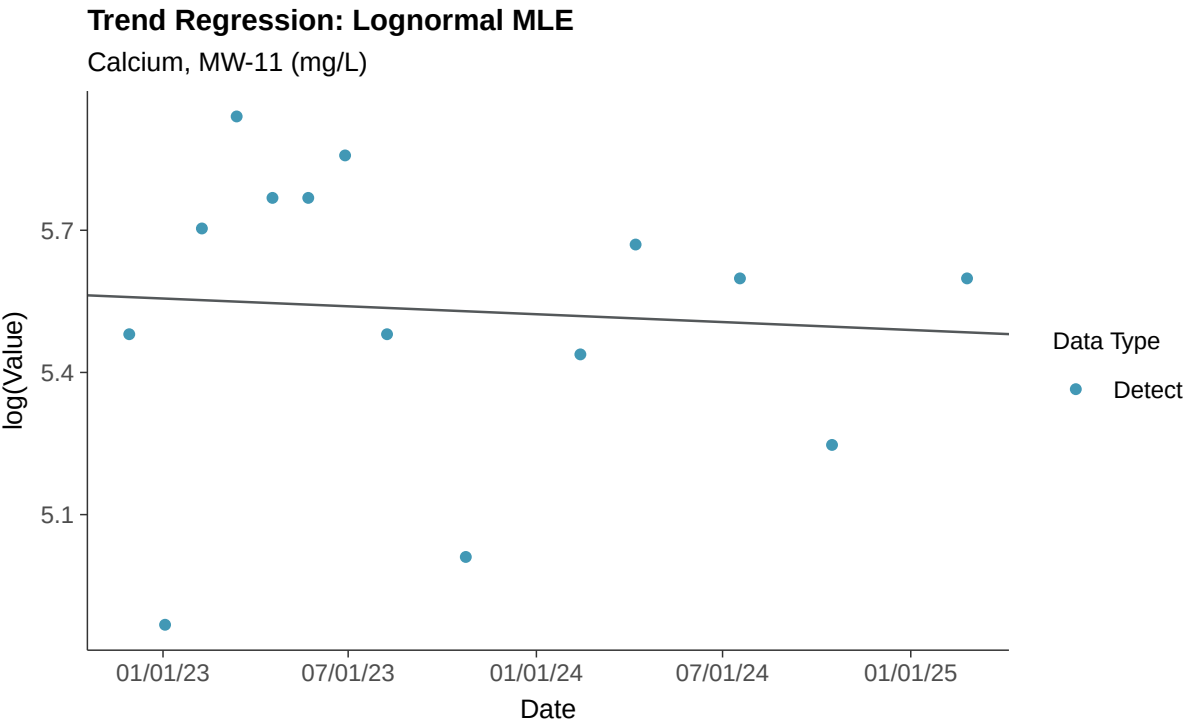
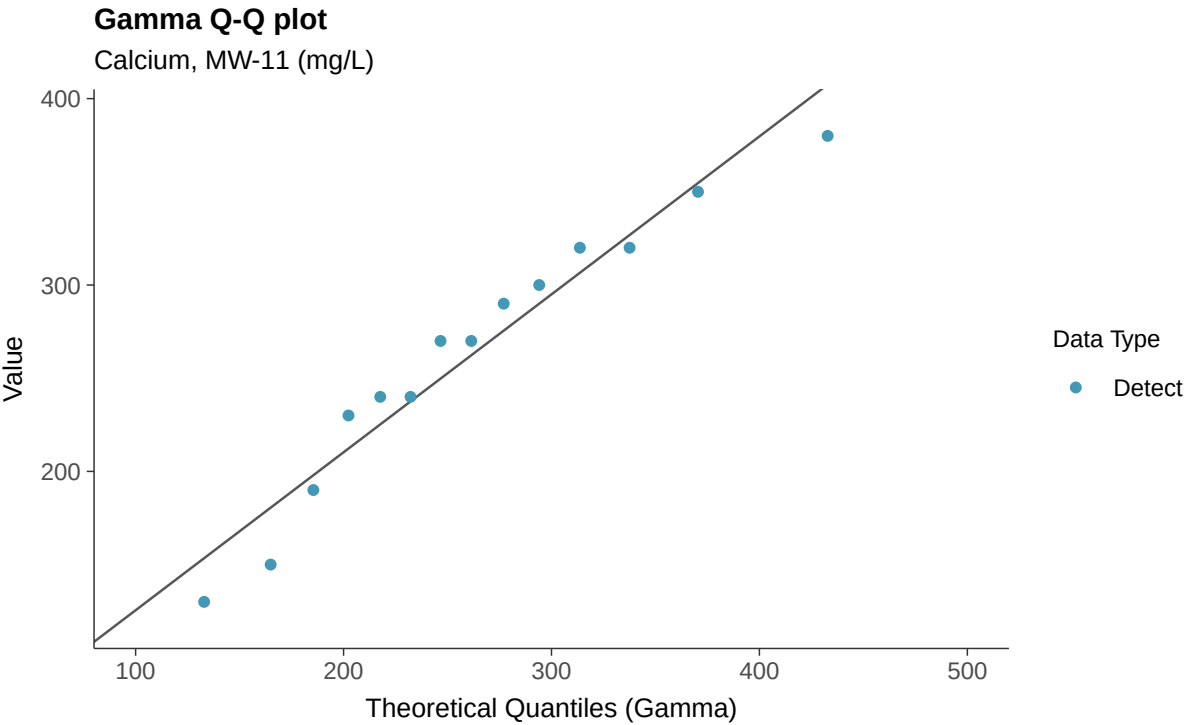
Appendix III: Calcium, MW-11

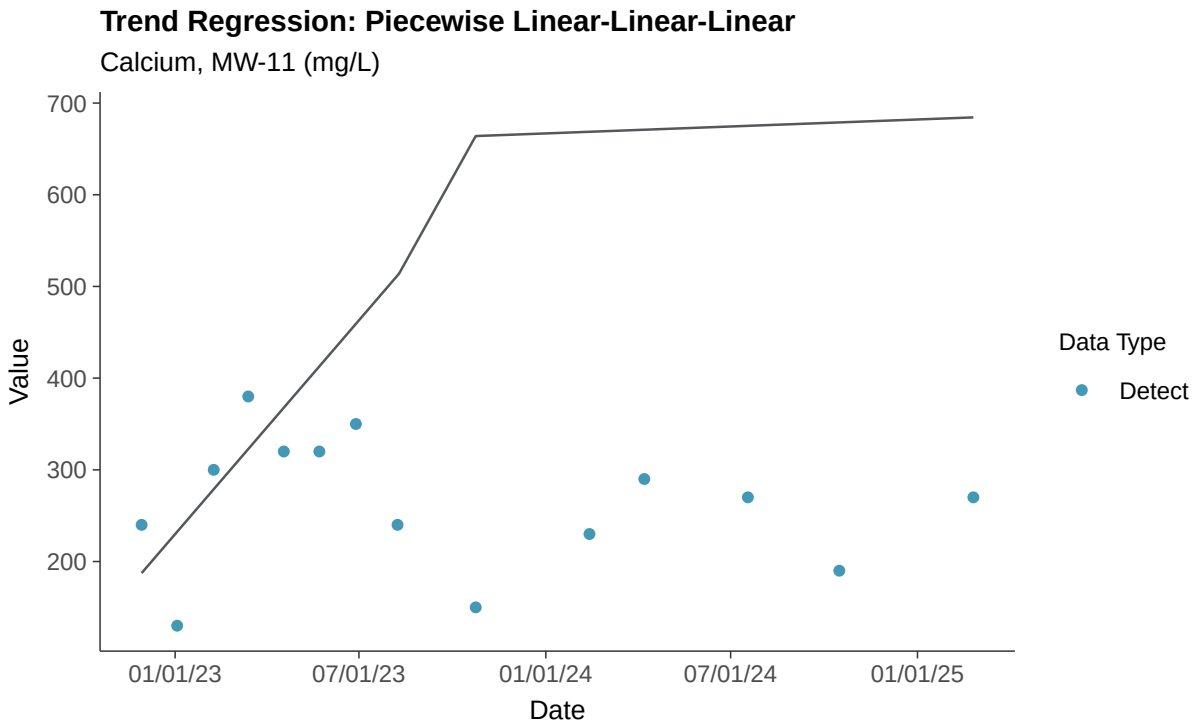
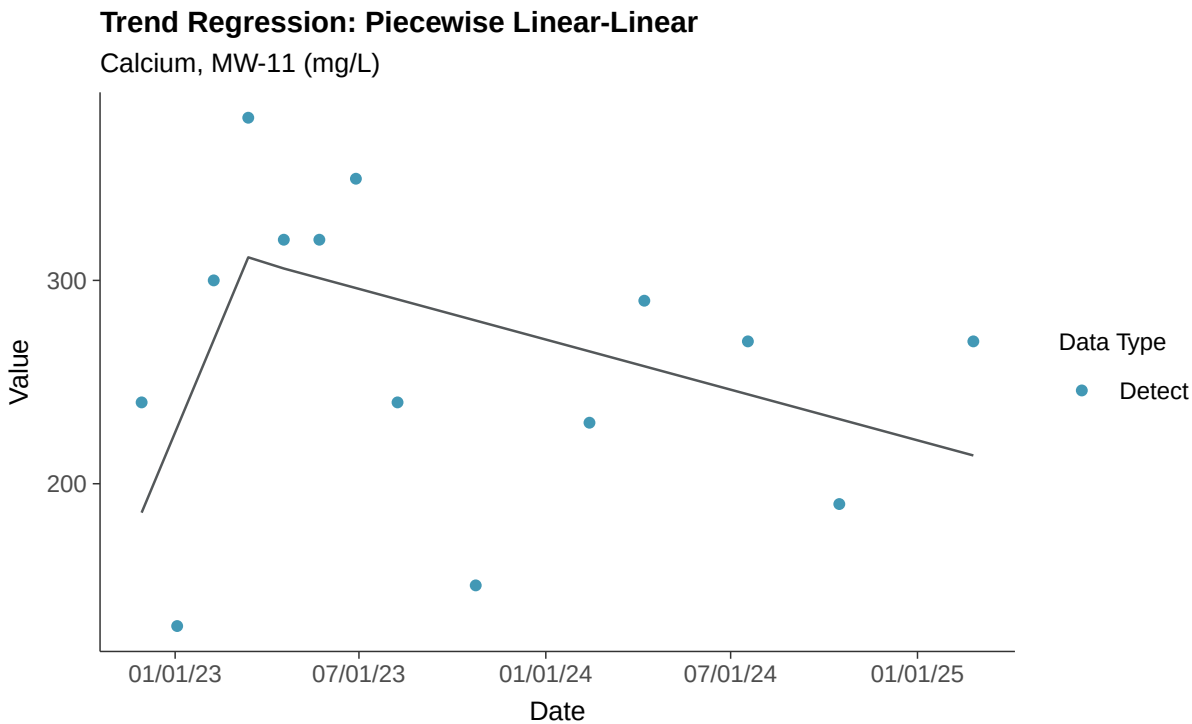
ID: 21_2_3_107







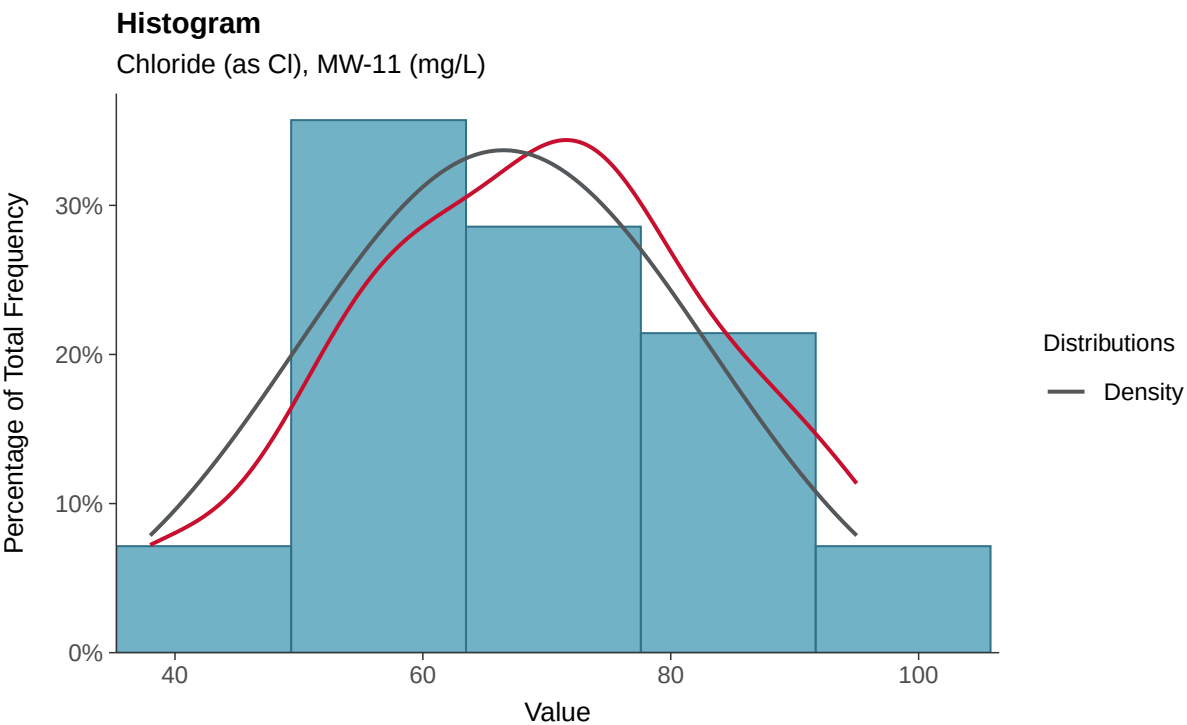
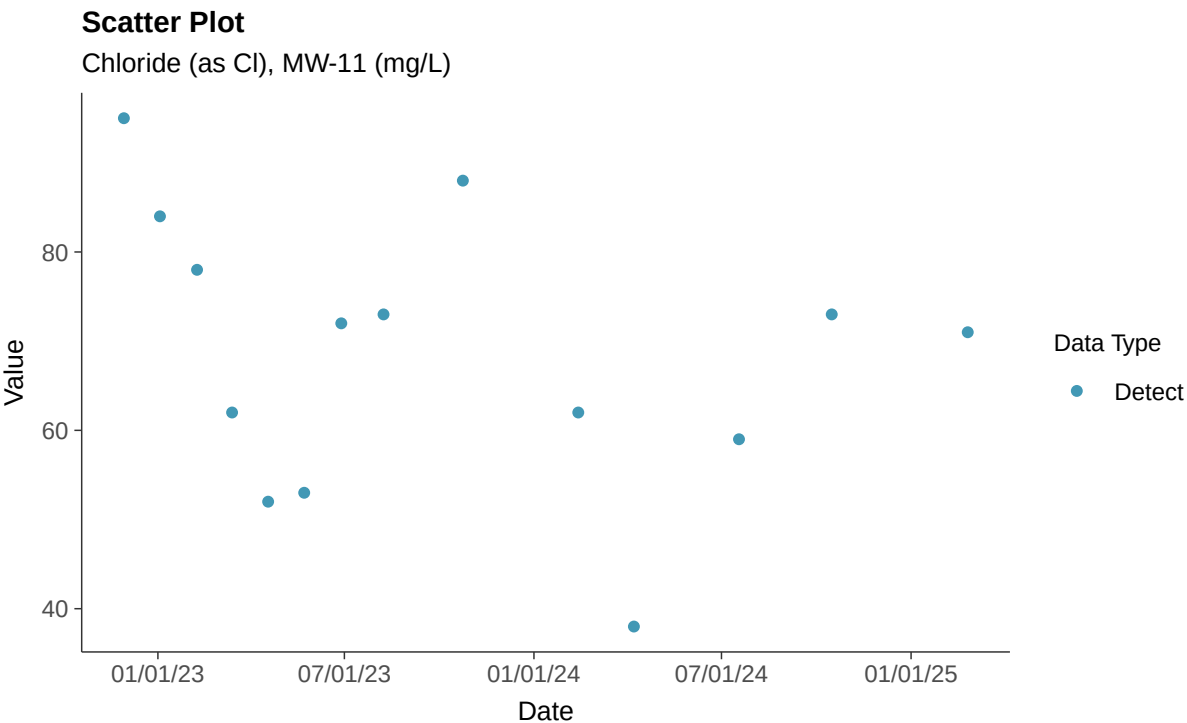


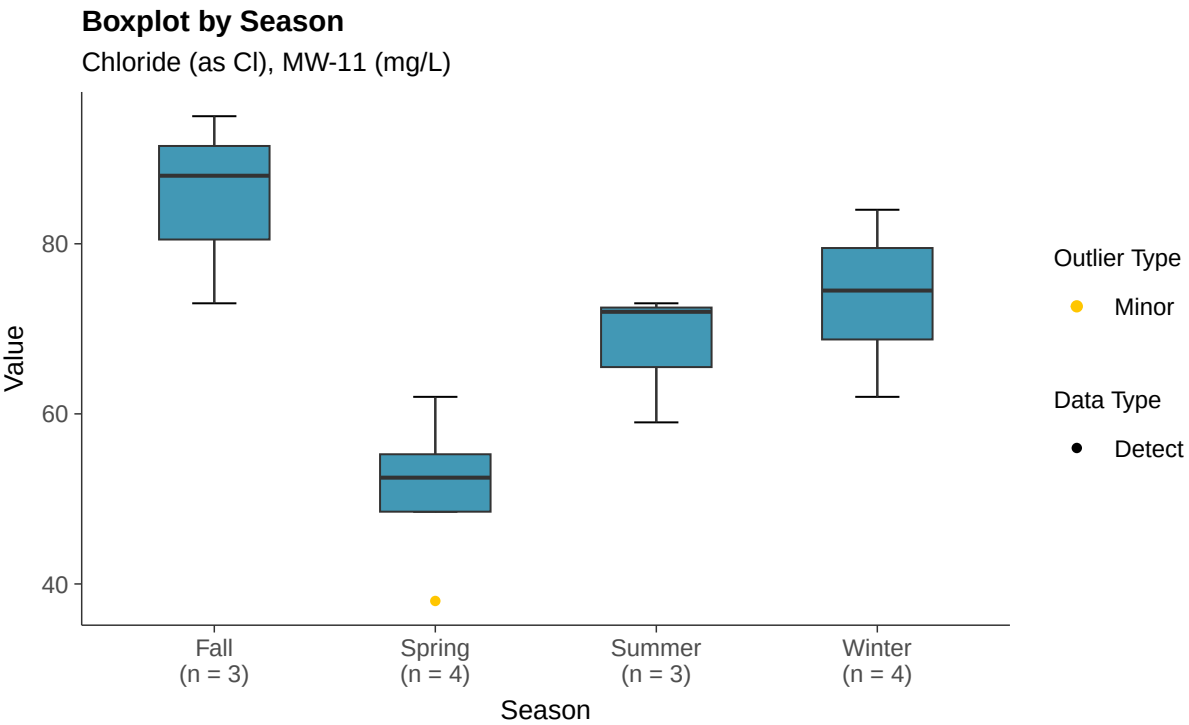
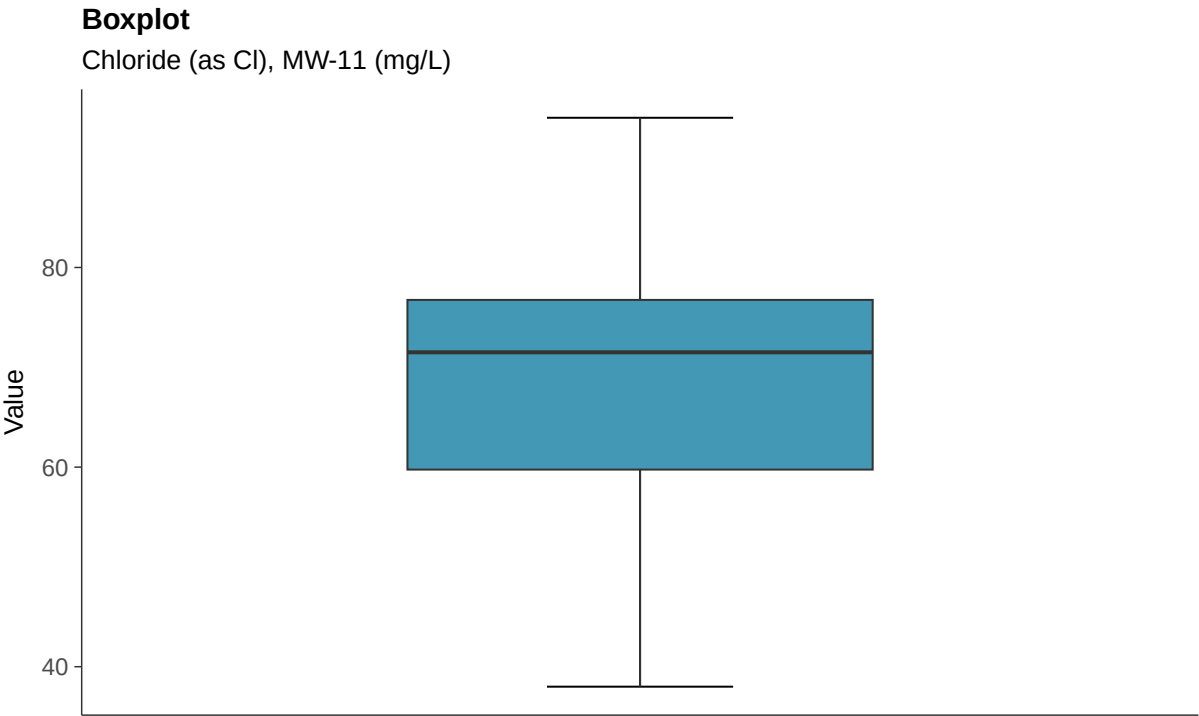


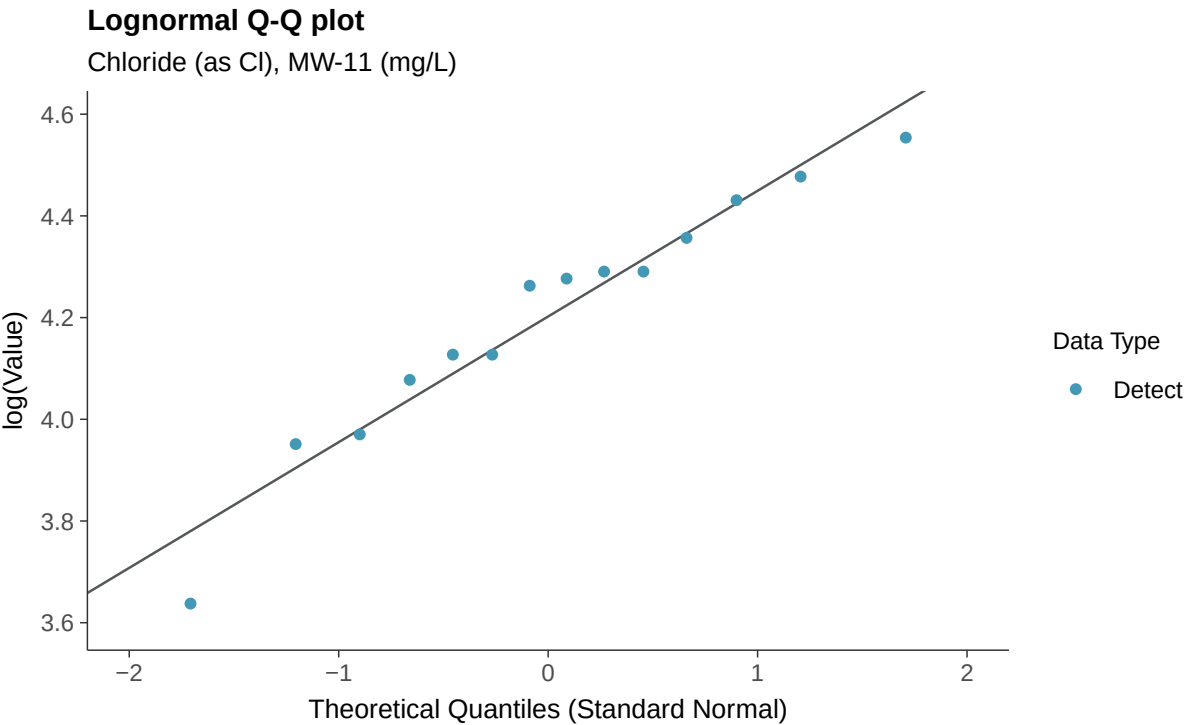
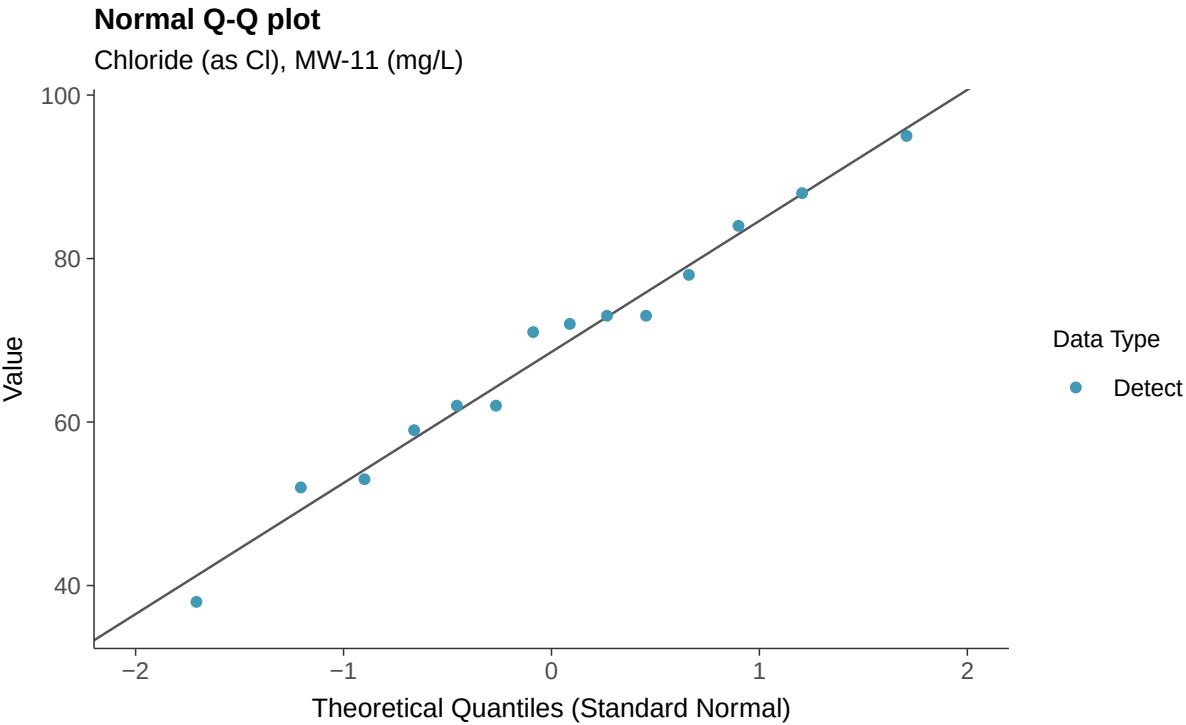


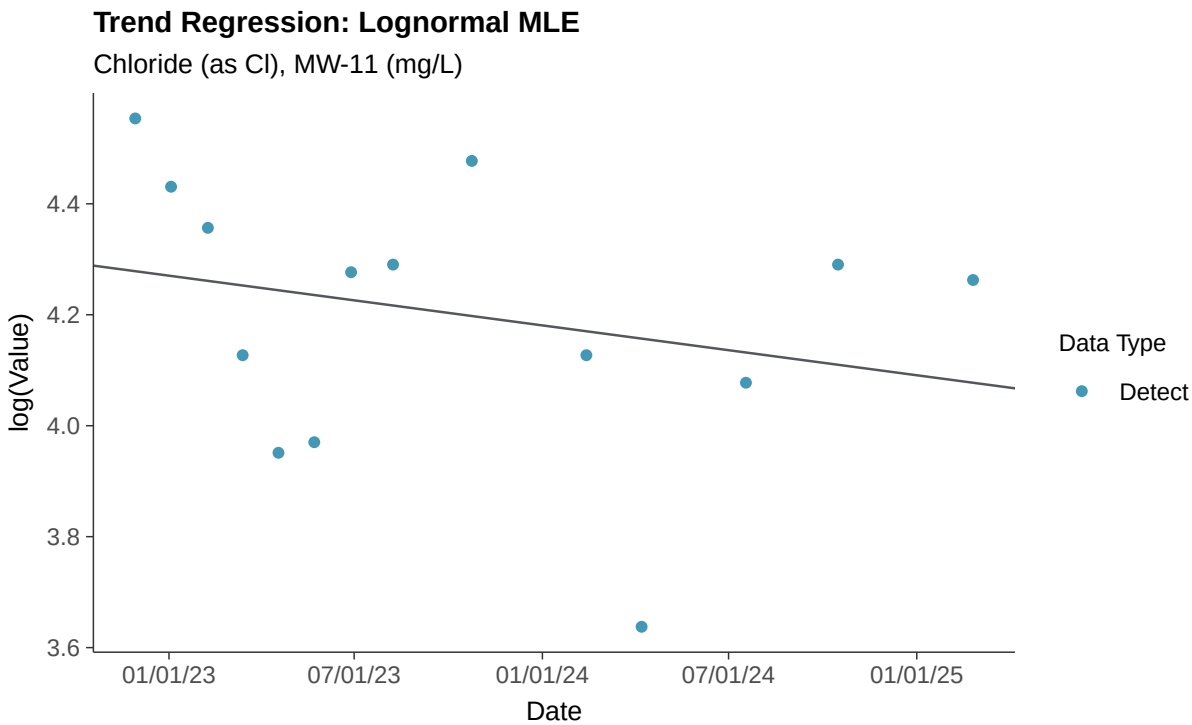
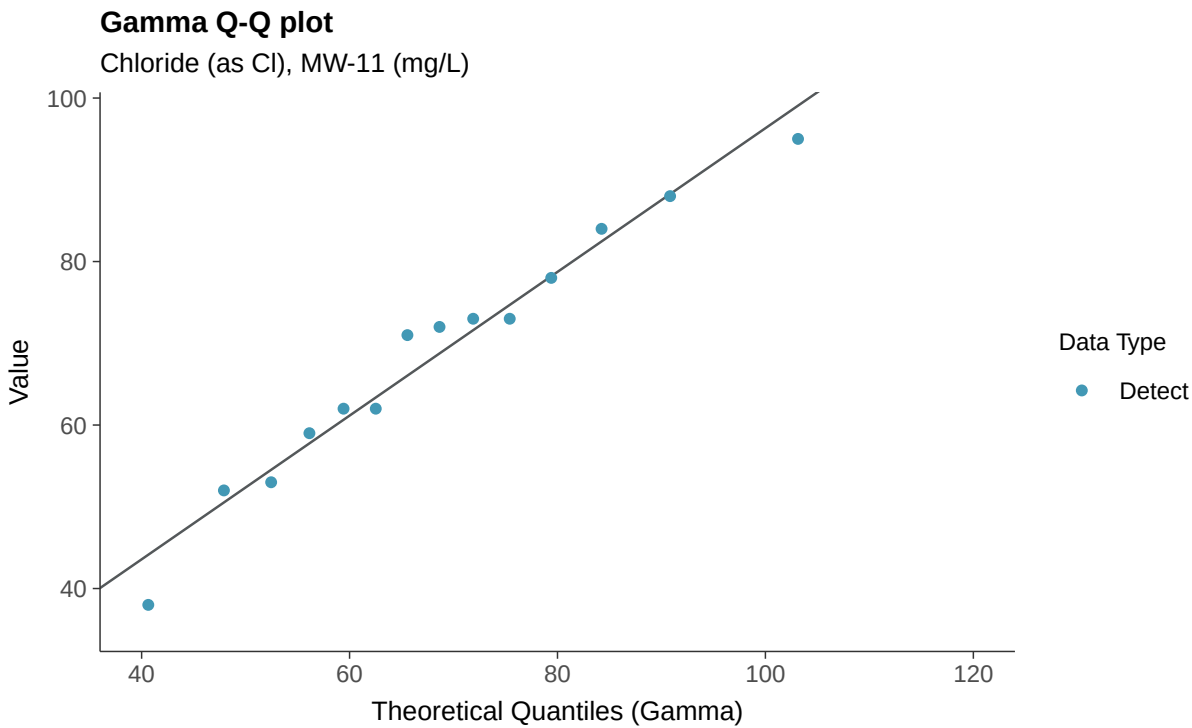
Appendix III: Chloride (as Cl), MW-11

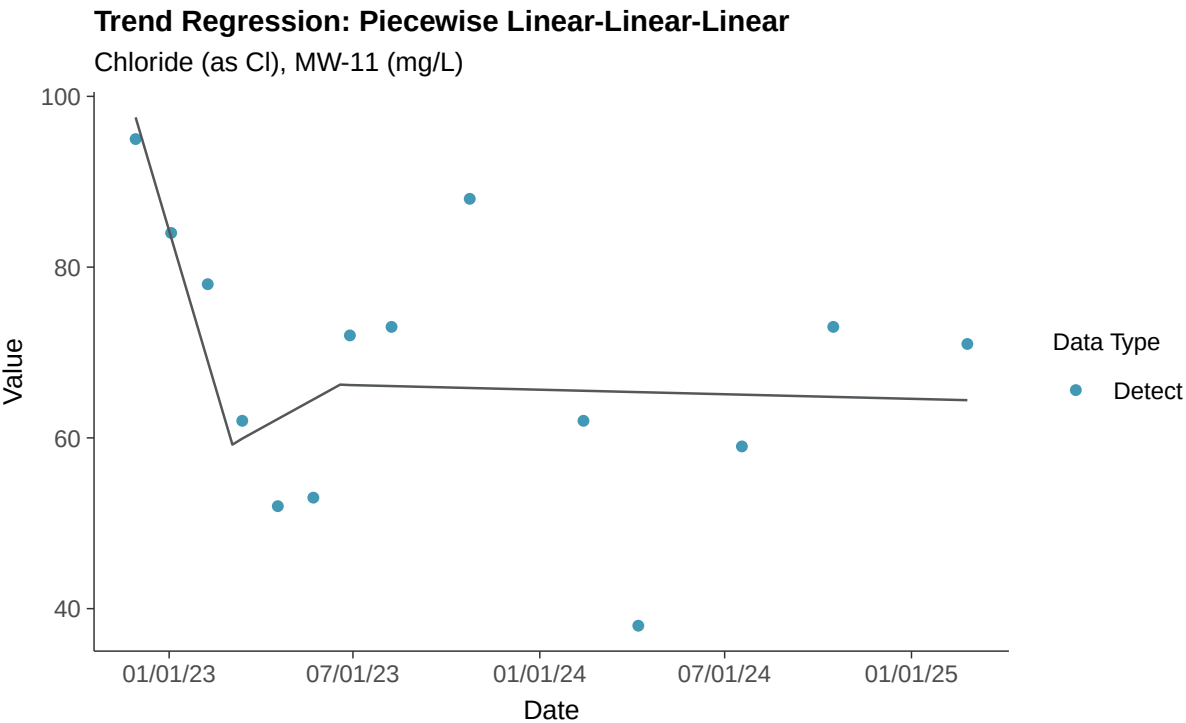
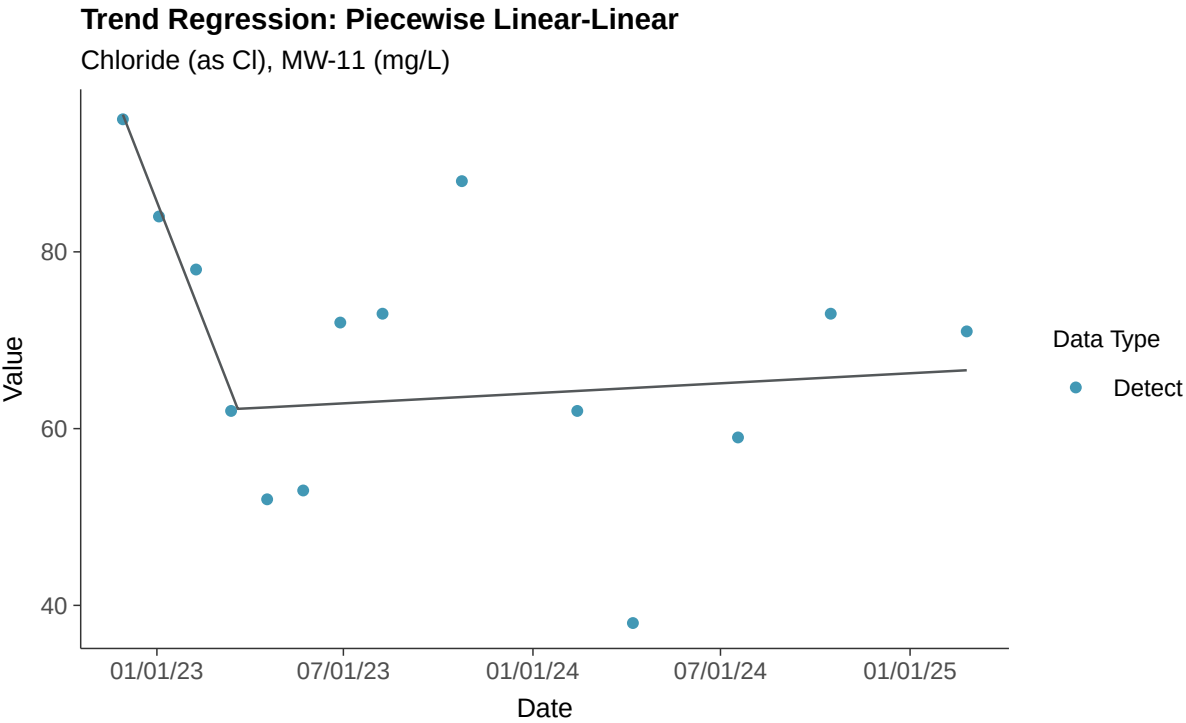
ID: 21_2_3_108







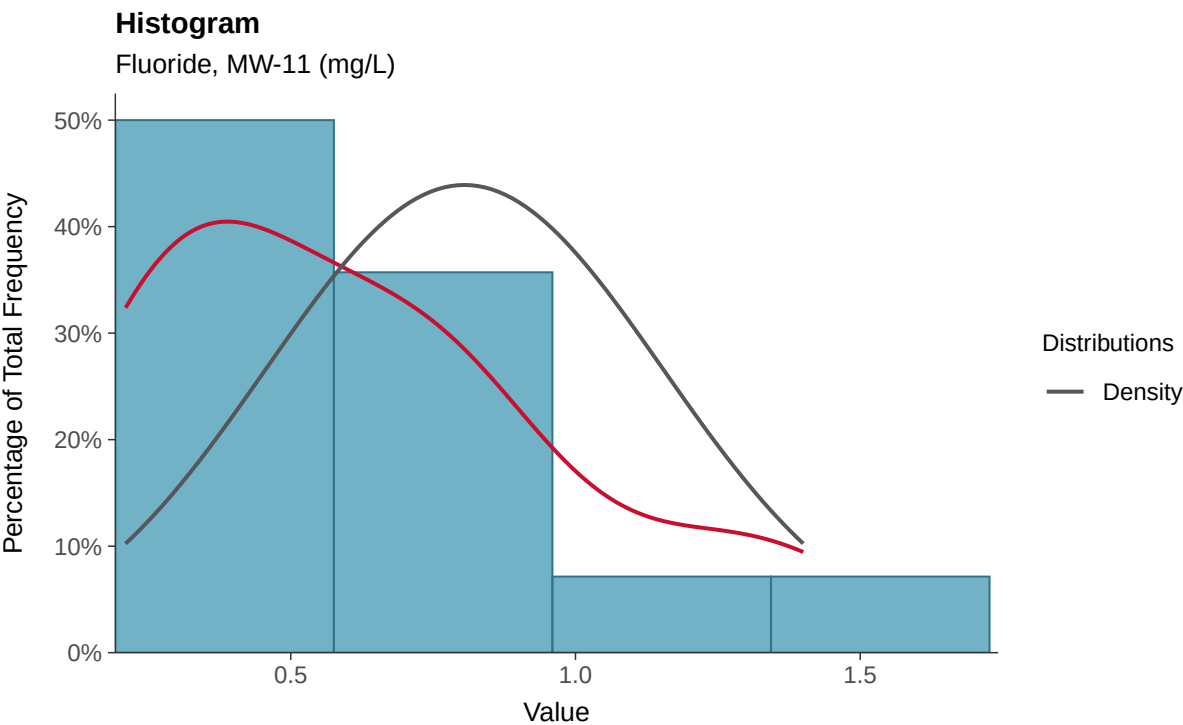
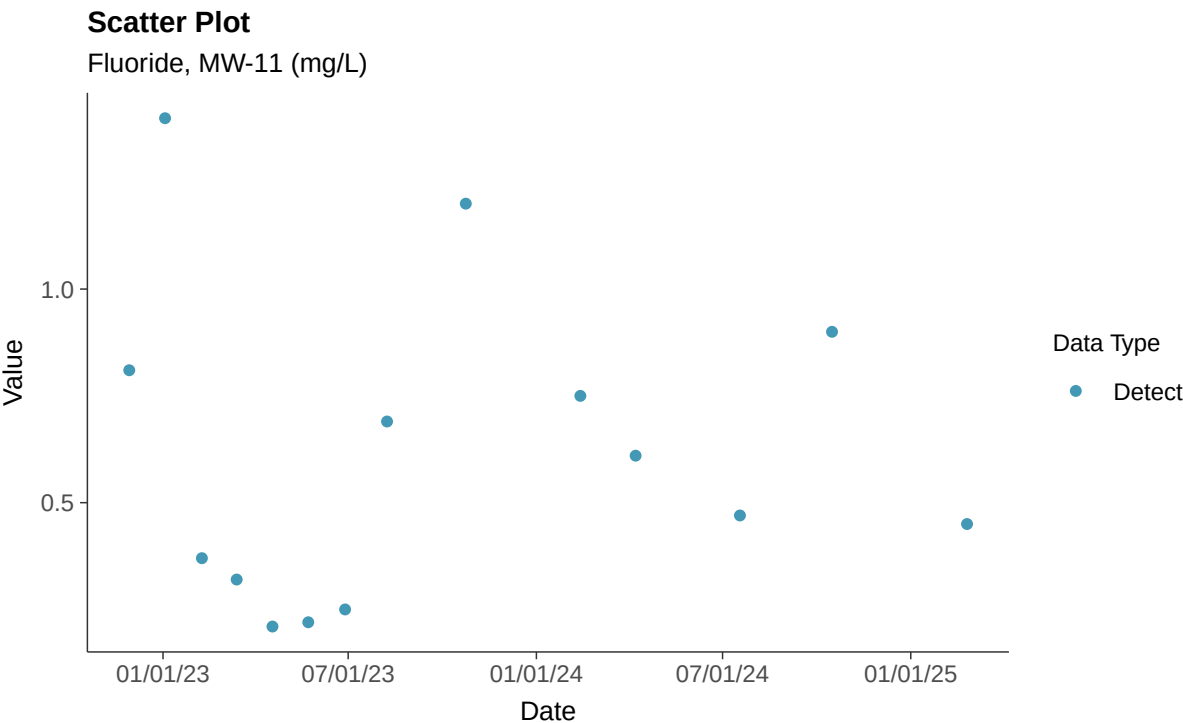


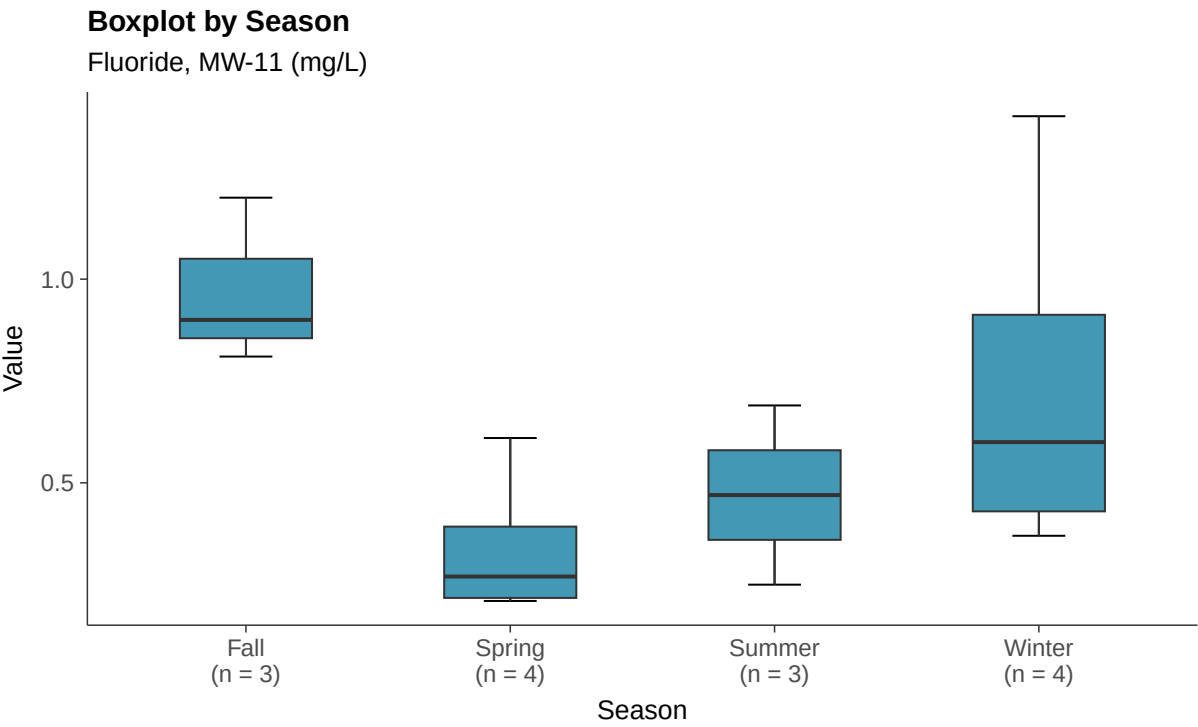
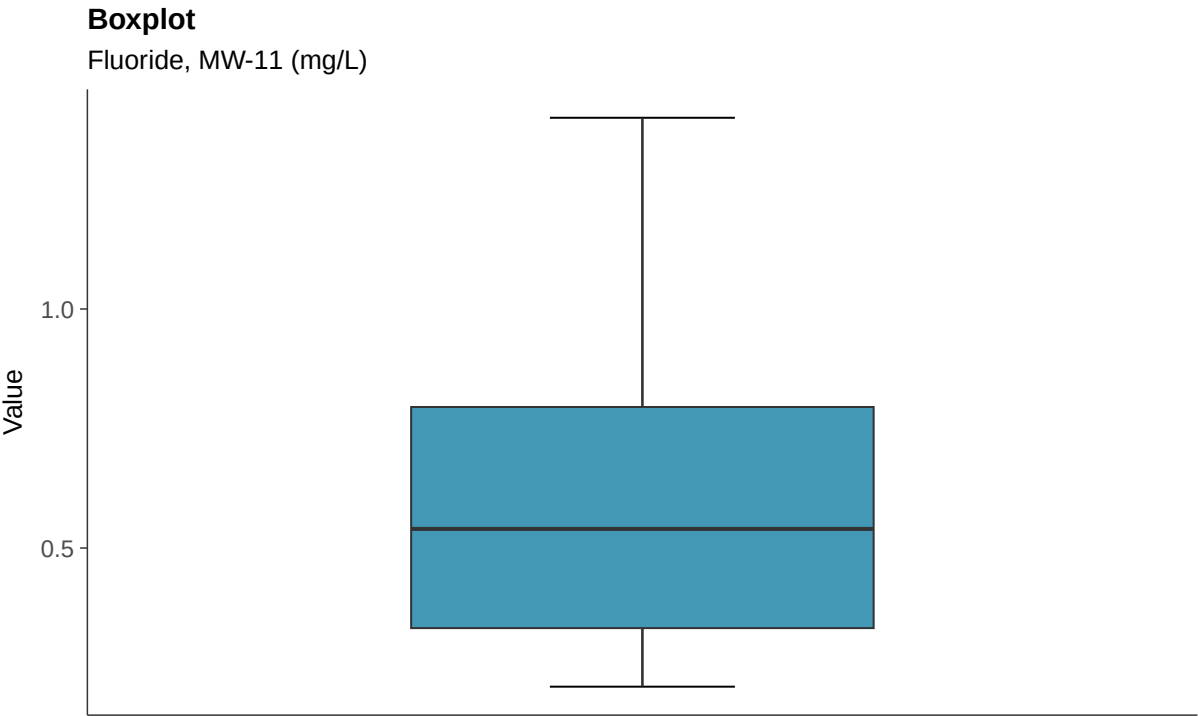


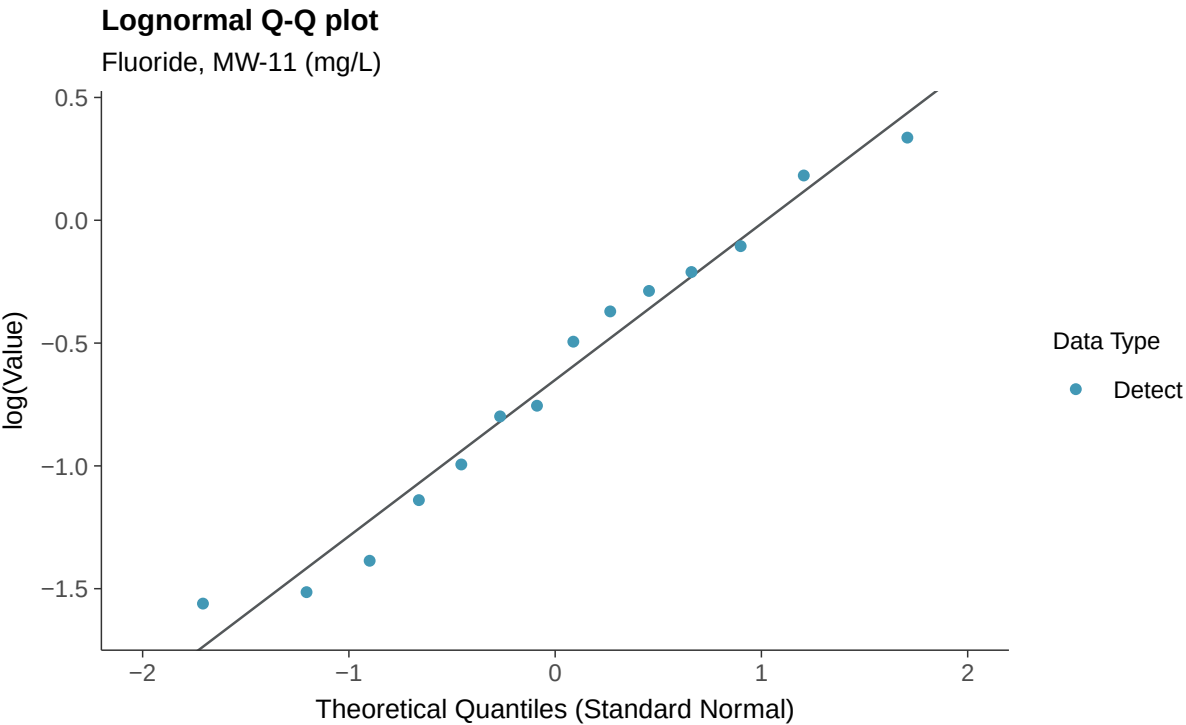
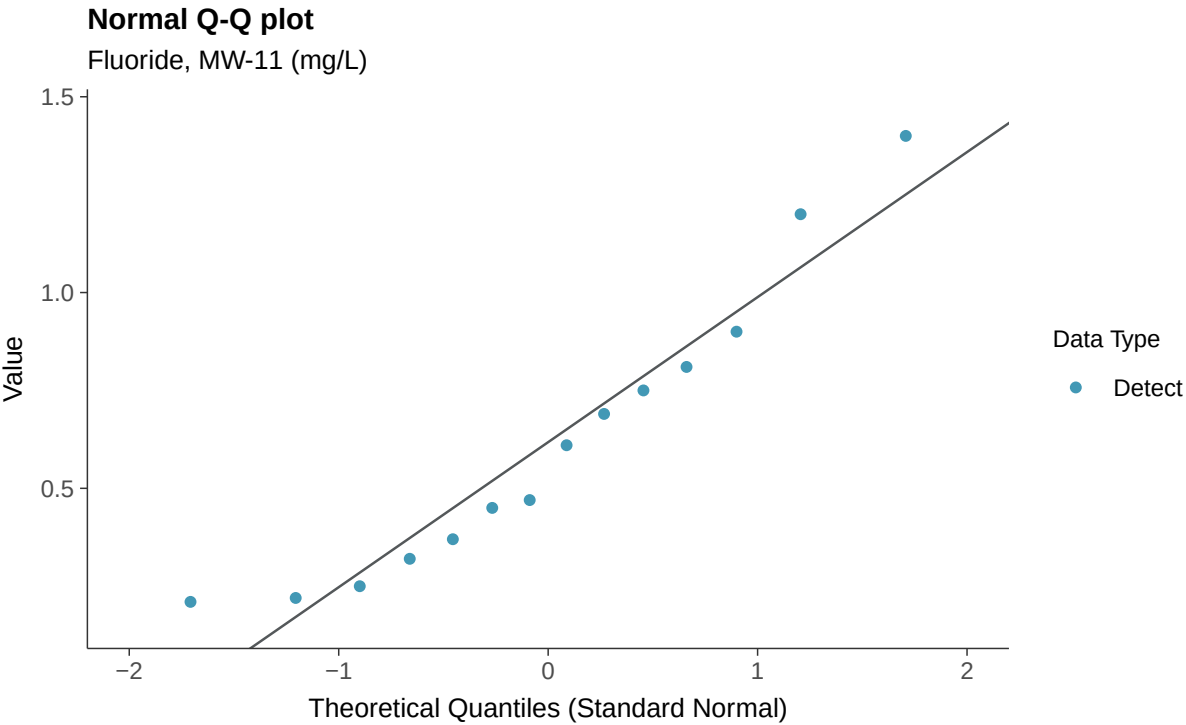


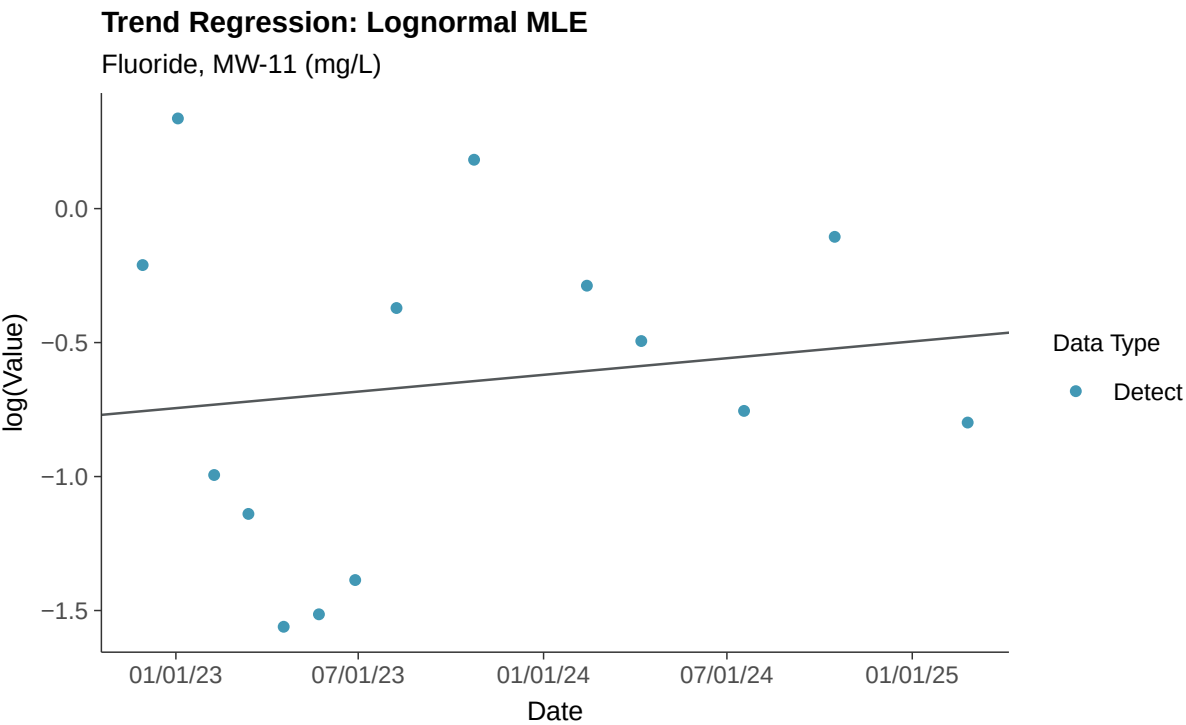
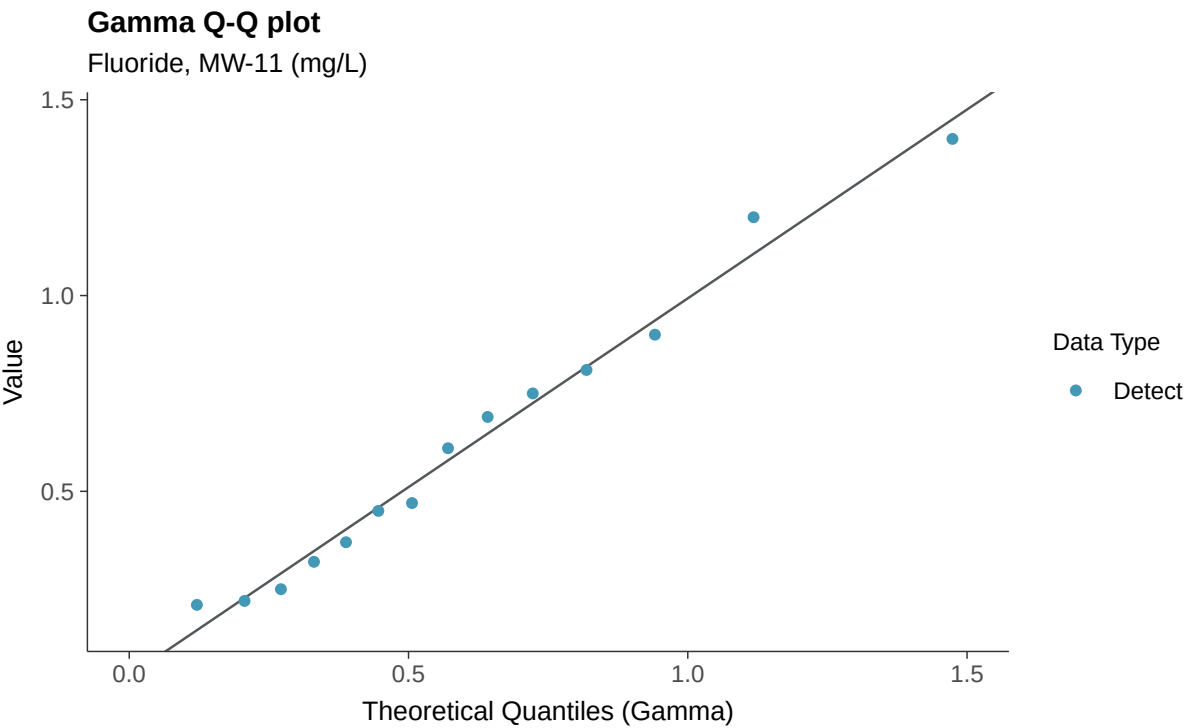
Appendix III: Fluoride, MW-11

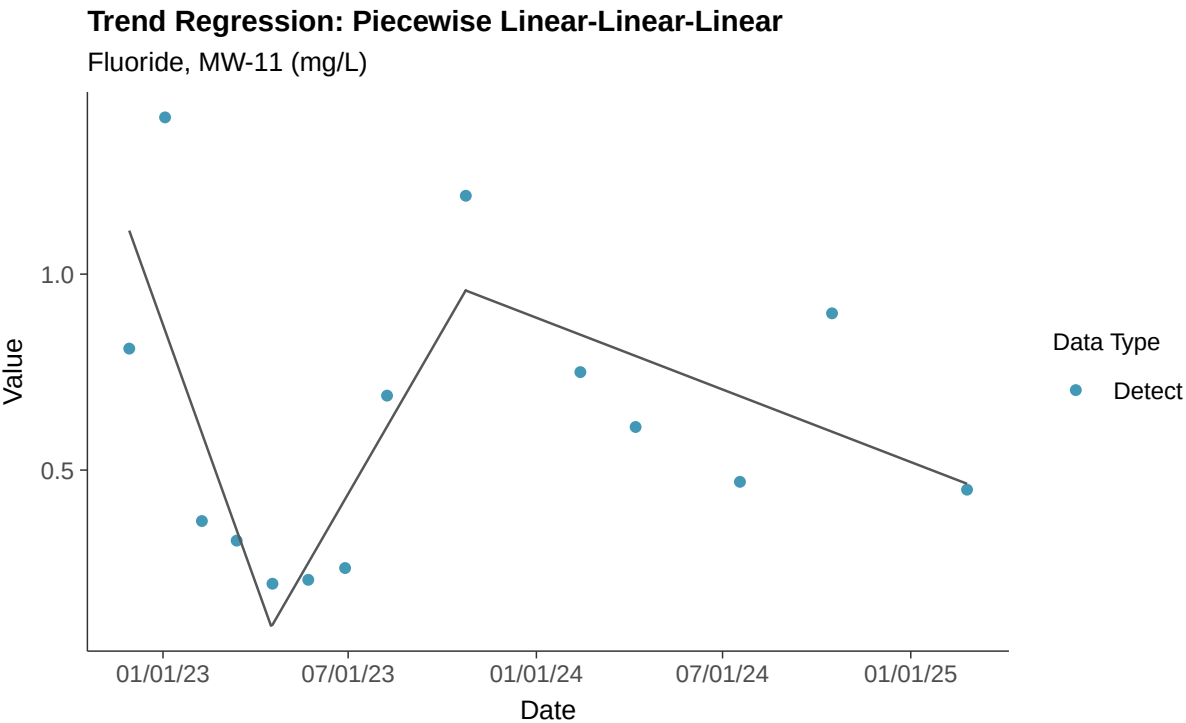
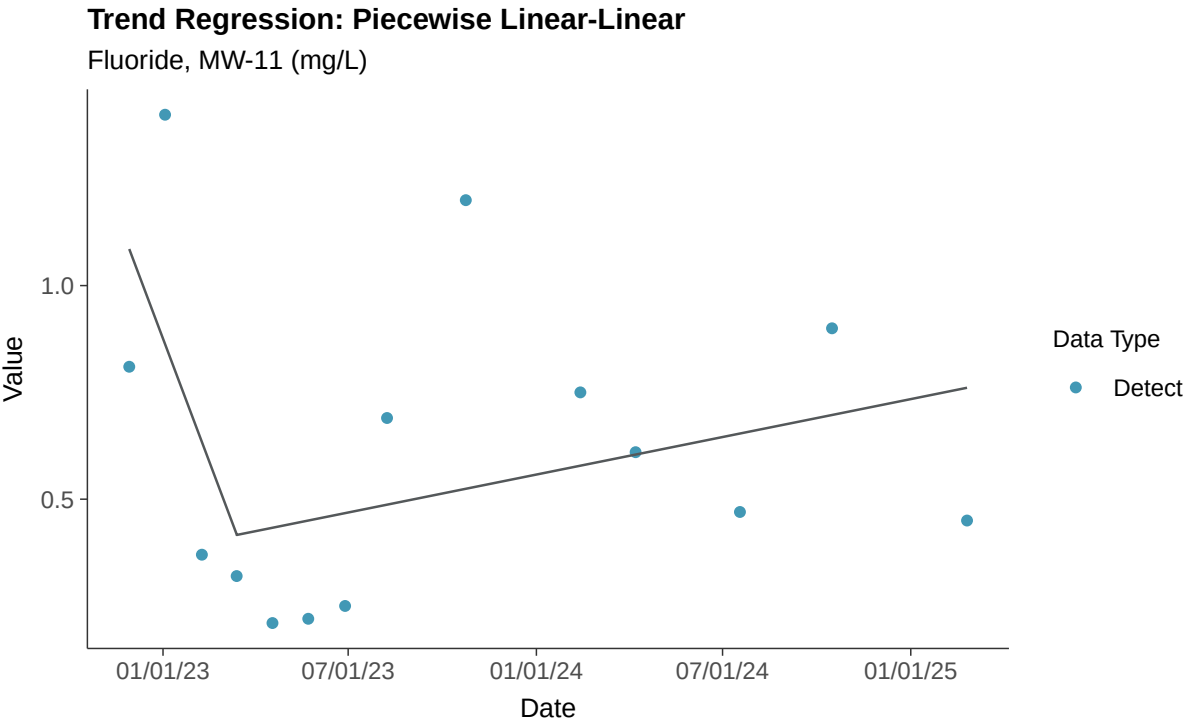
ID: 21_2_3_112







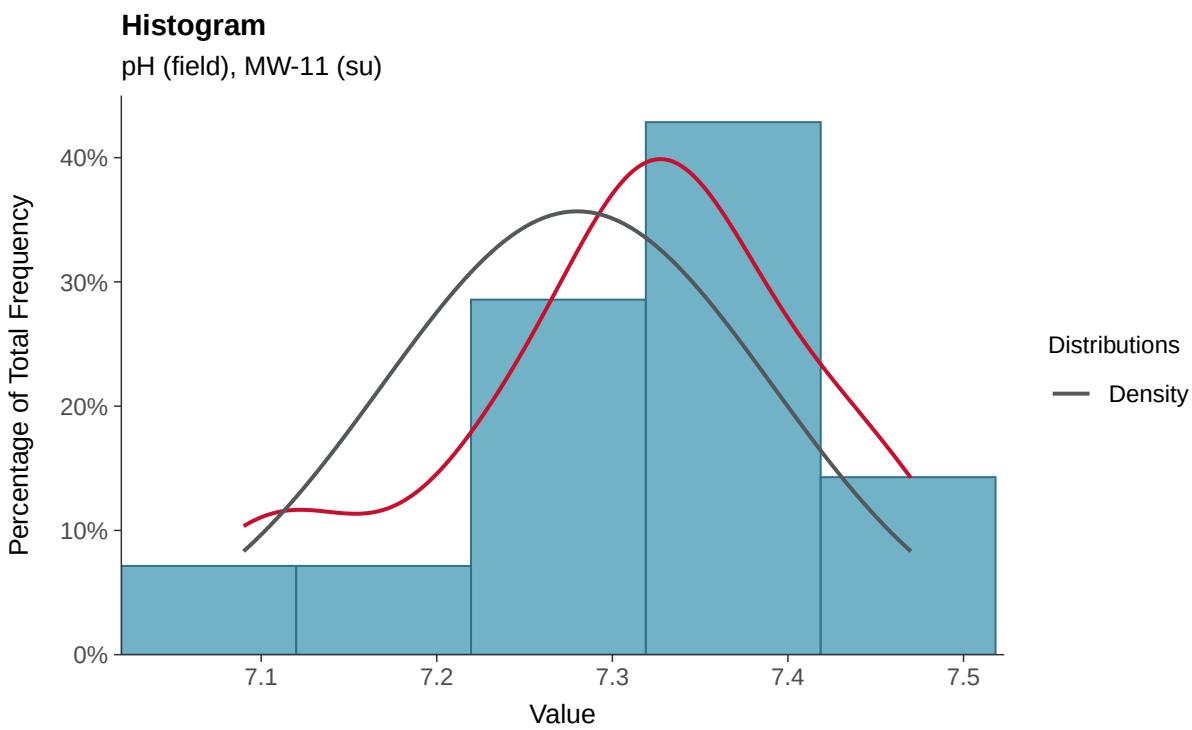
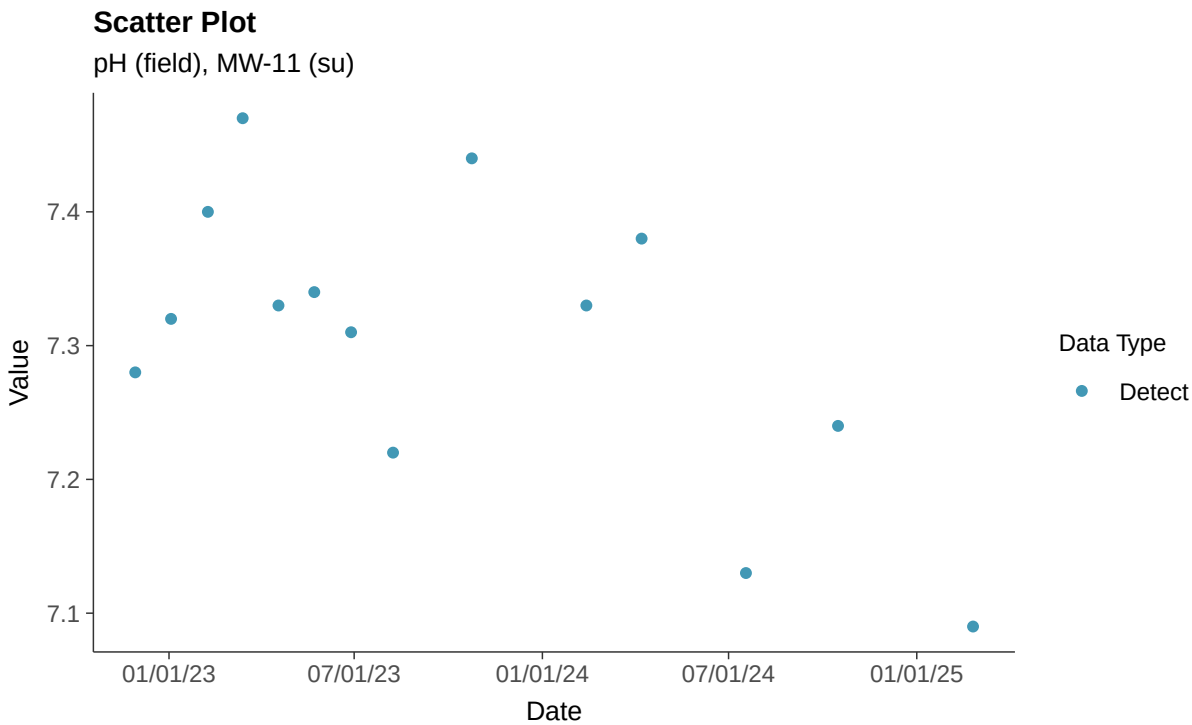


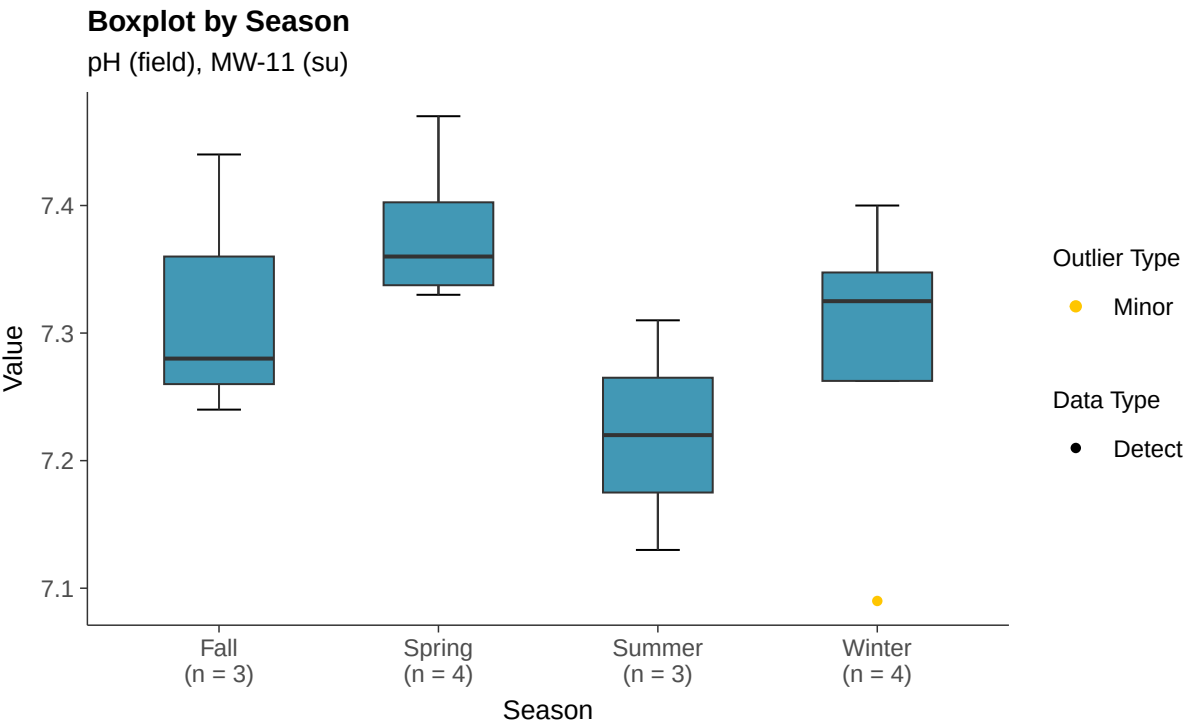
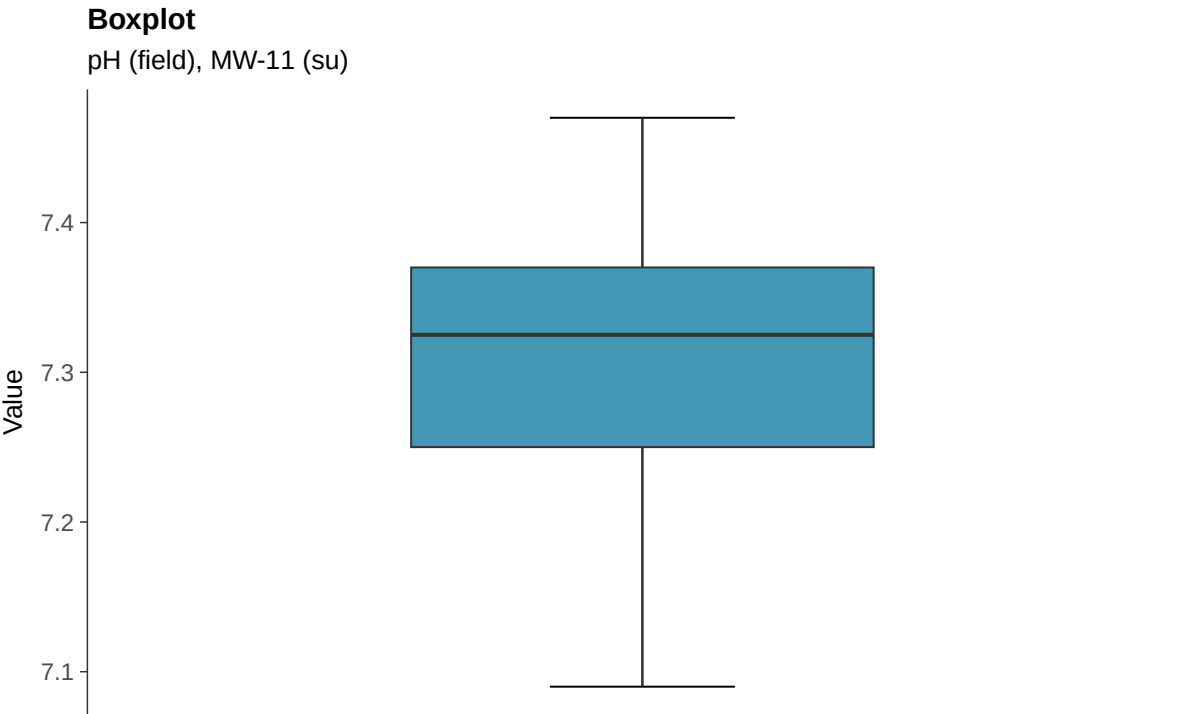


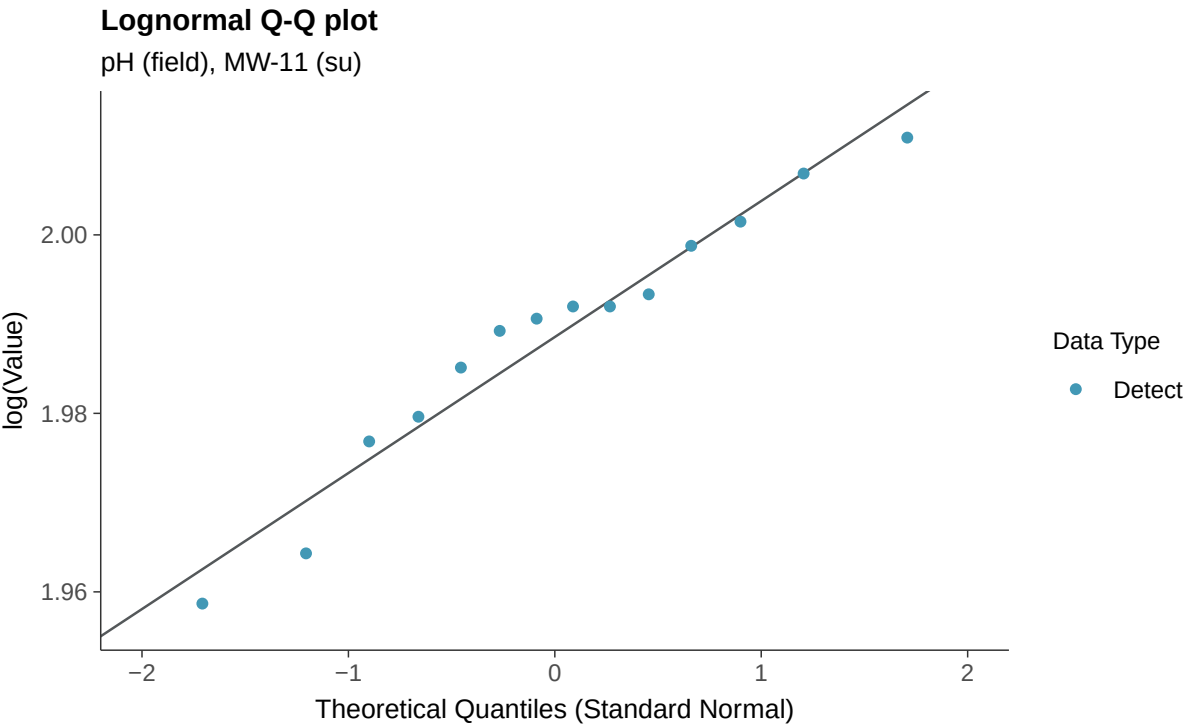
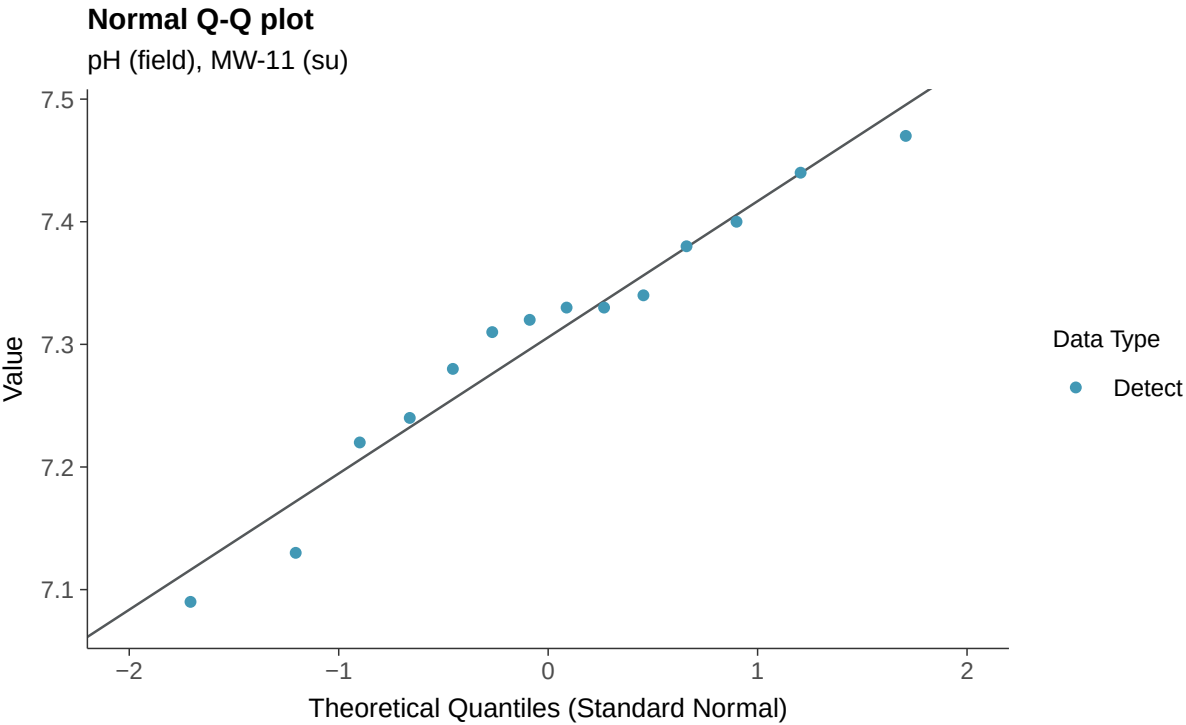


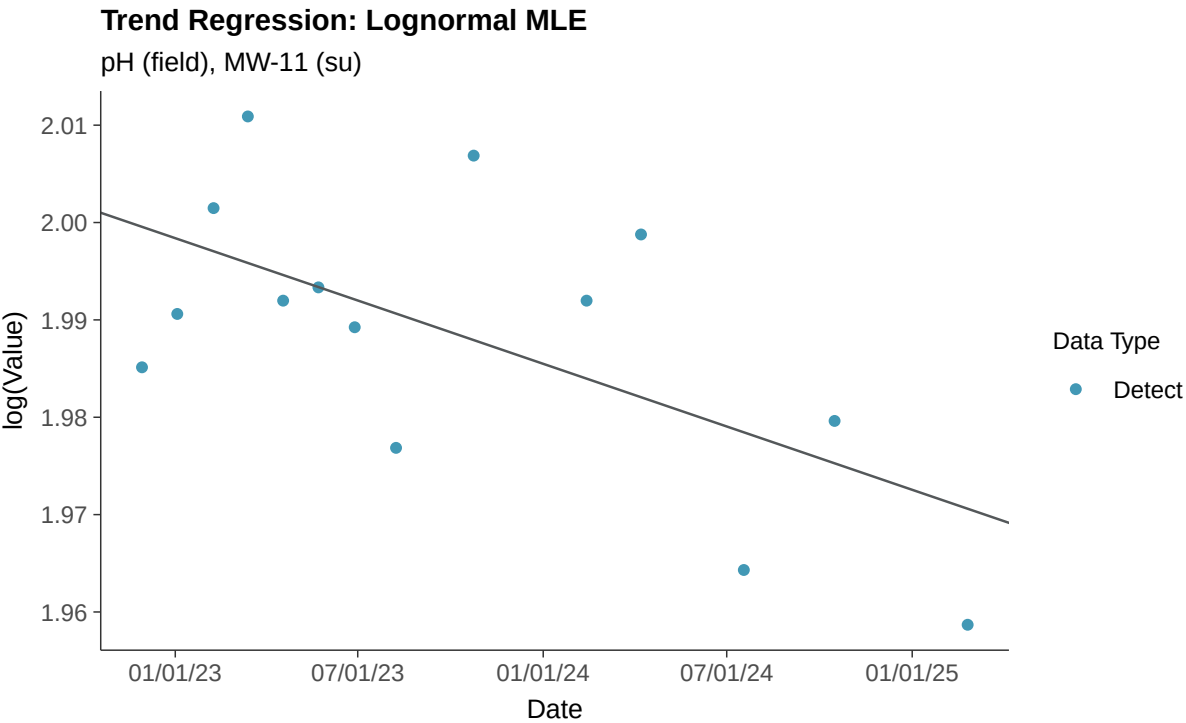
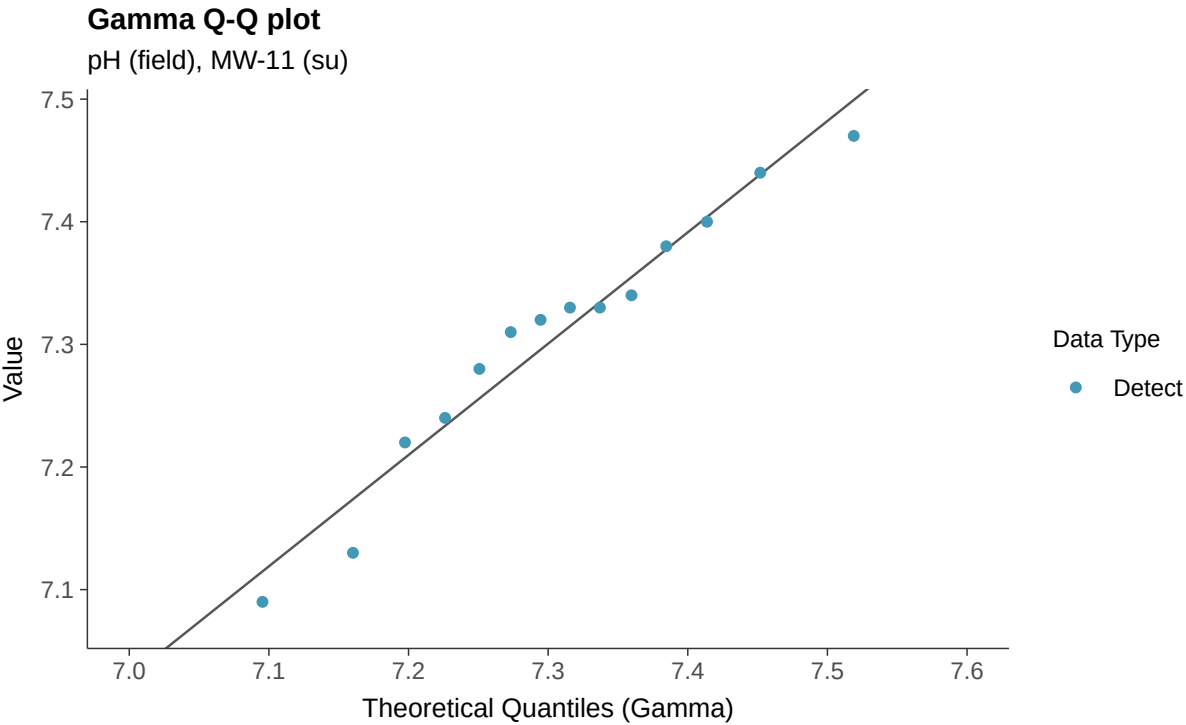
Appendix III: pH (field), MW-11

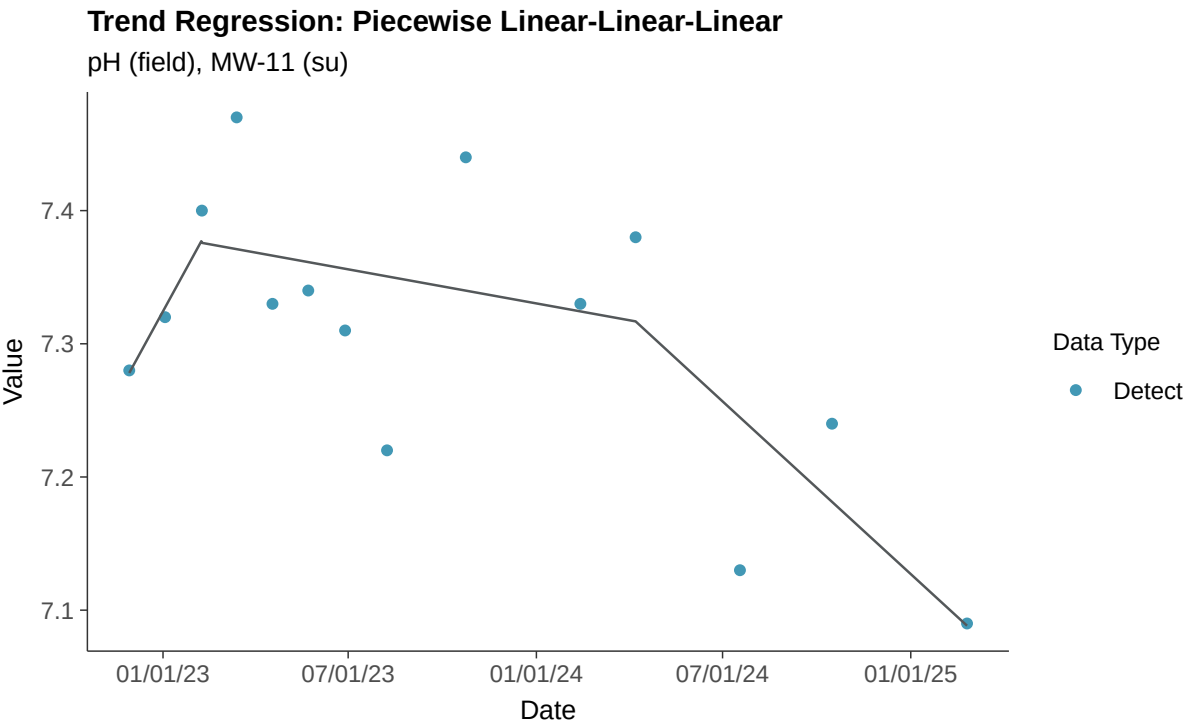
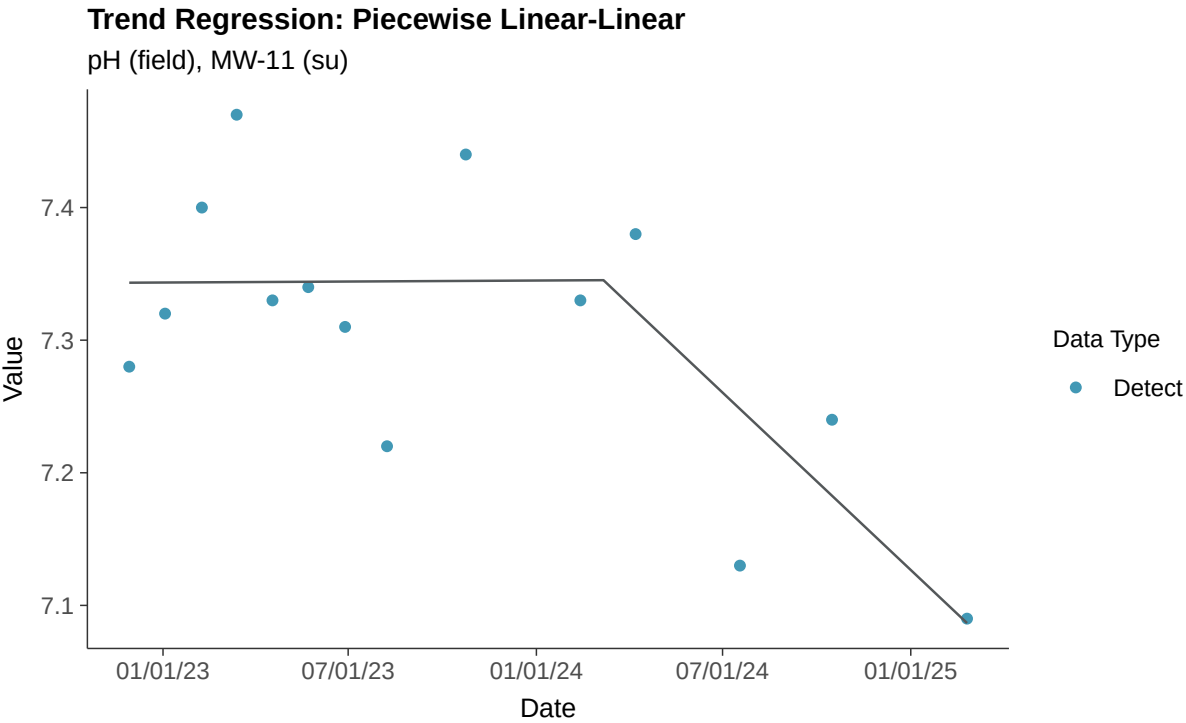
ID: 21_2_3_120







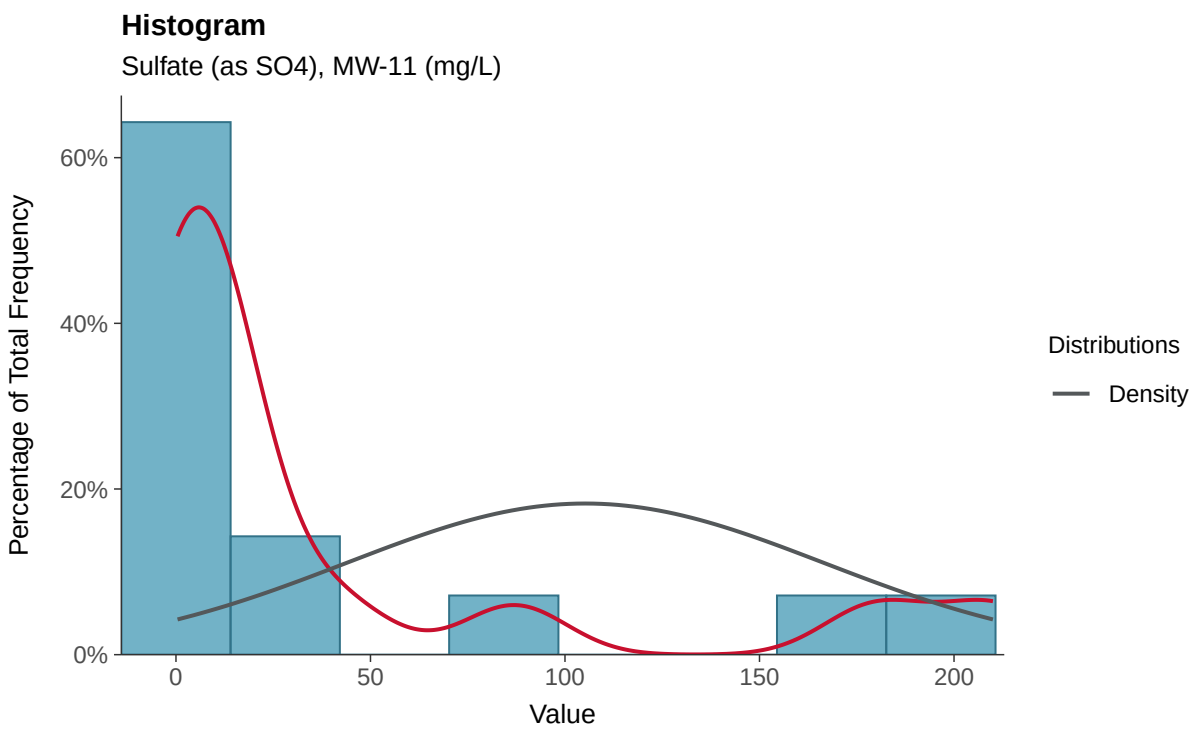
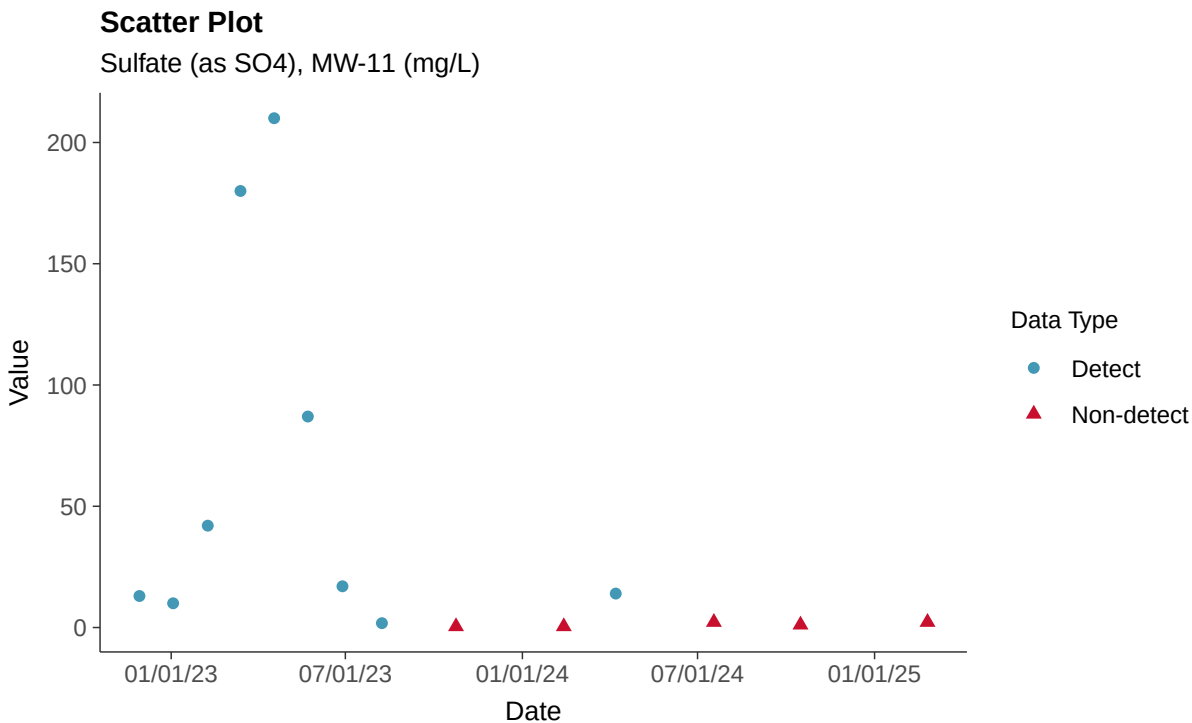


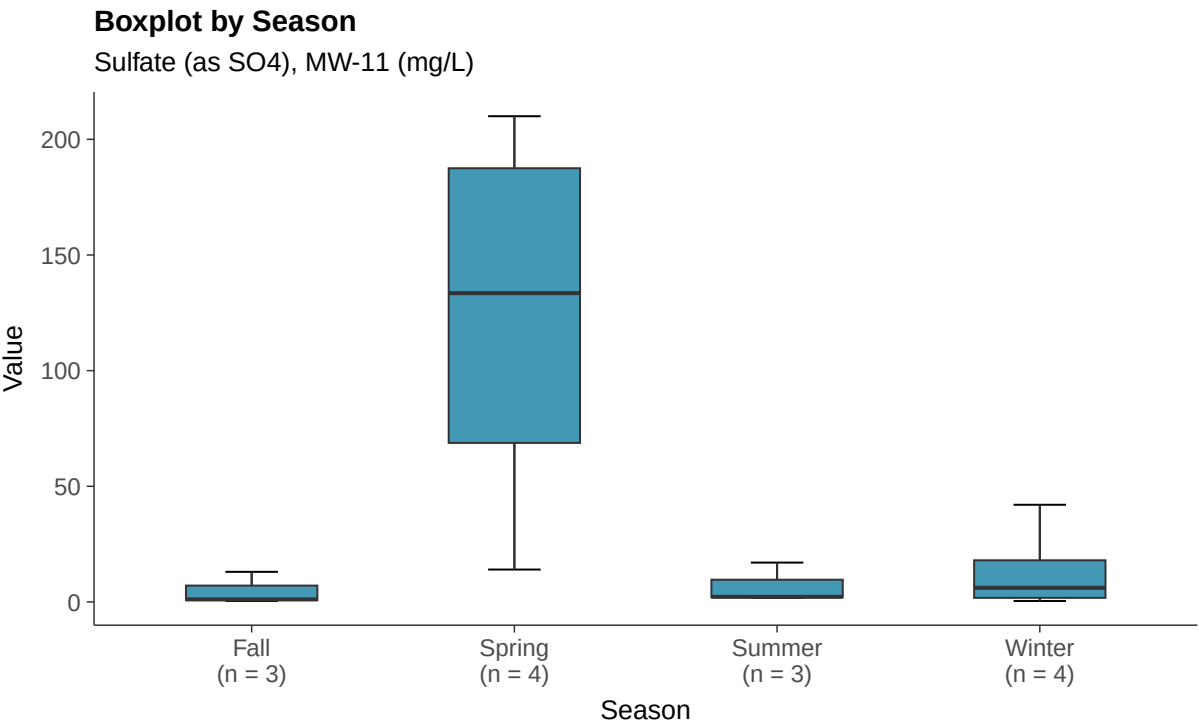
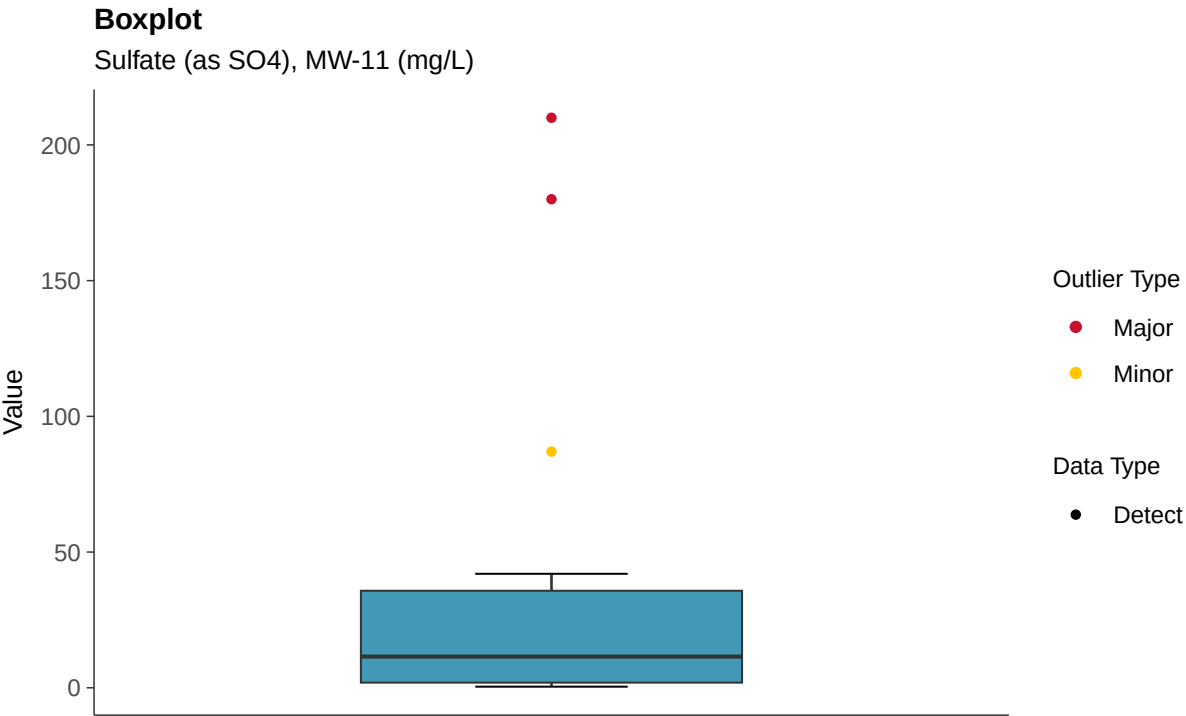




Appendix III: Sulfate (as SO₄), MW-11

ID: 21_2_3_124

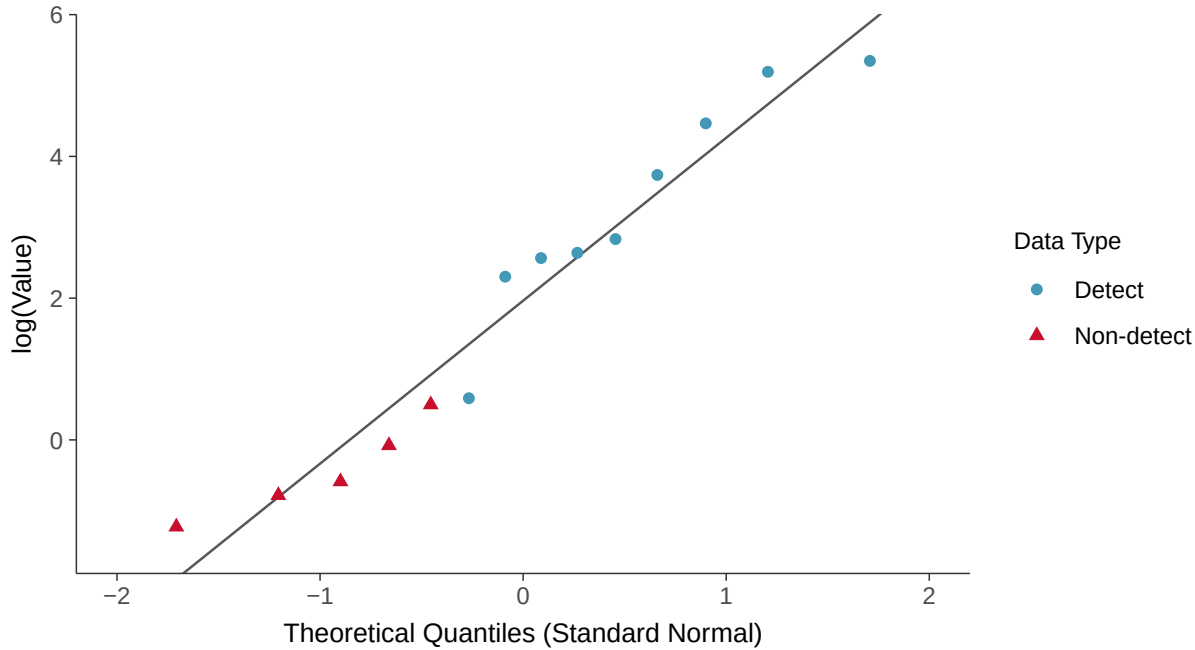






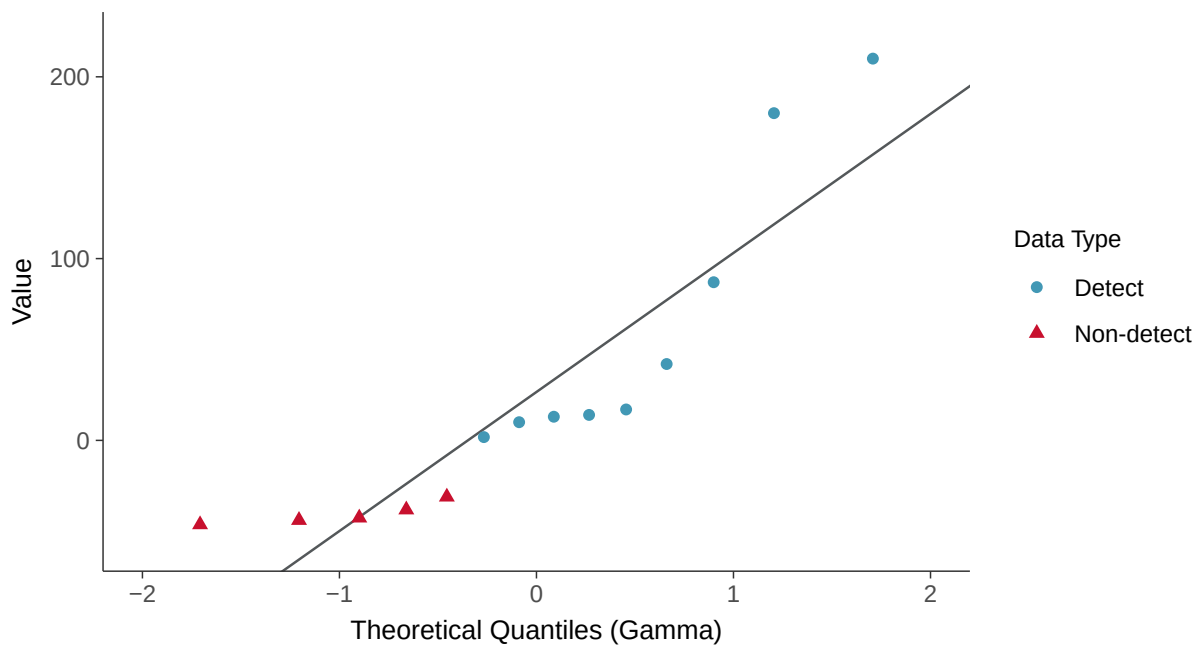
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-11 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

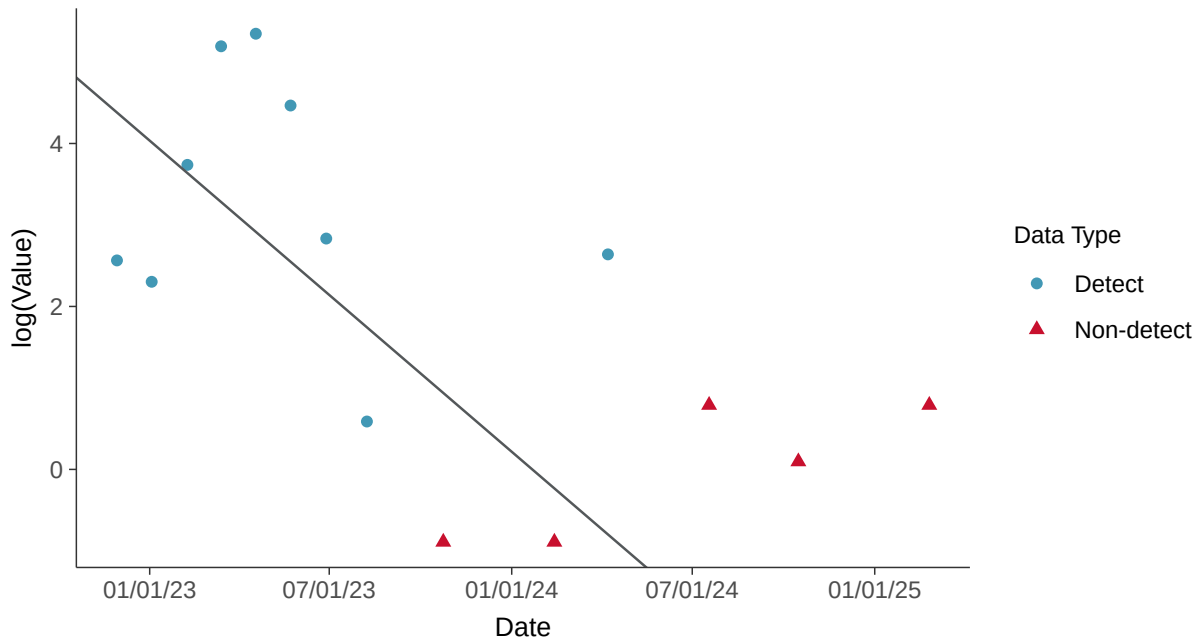
Sulfate (as SO₄), MW-11 (mg/L)





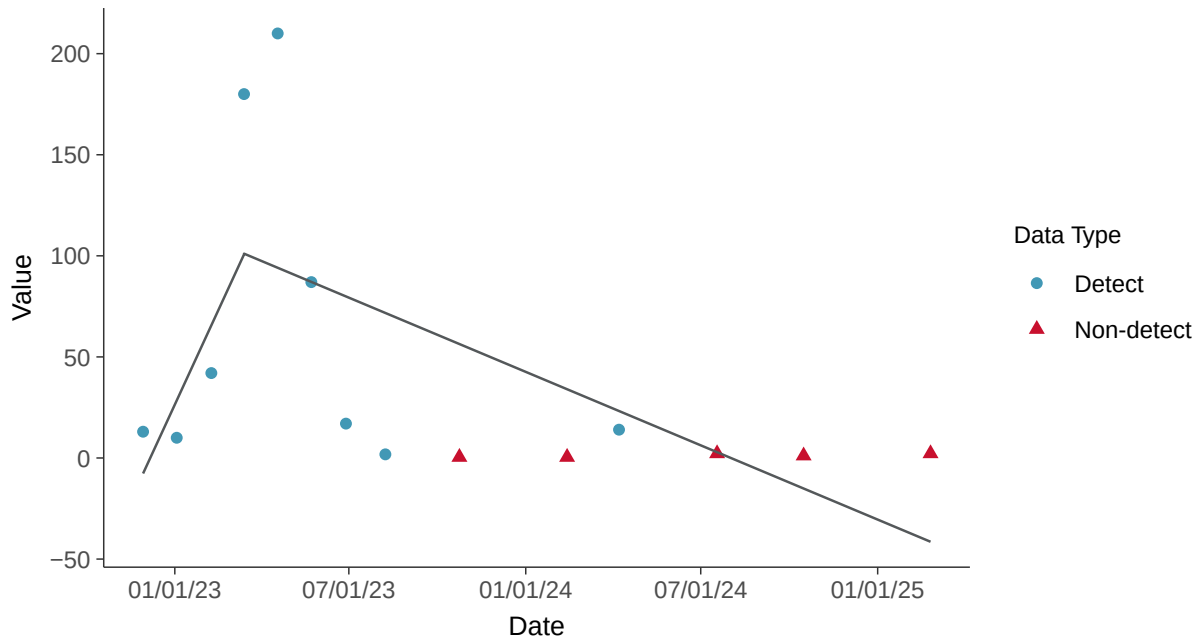
Trend Regression: Lognormal MLE

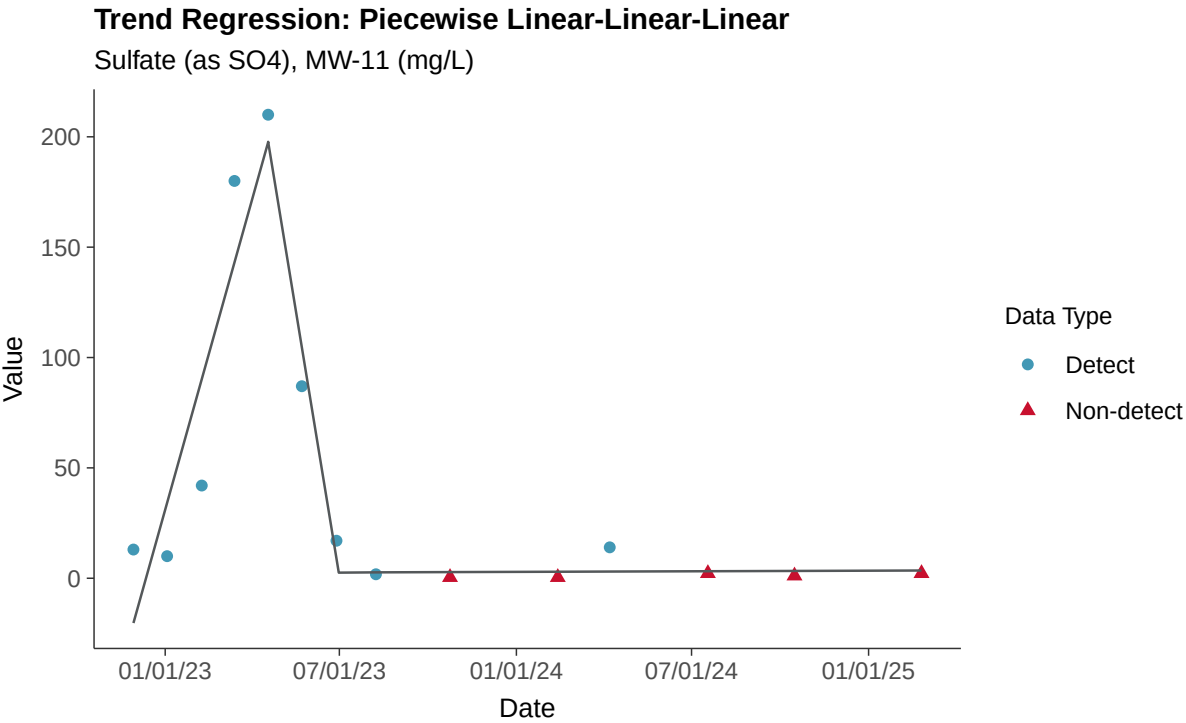
Sulfate (as SO₄), MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-11 (mg/L)

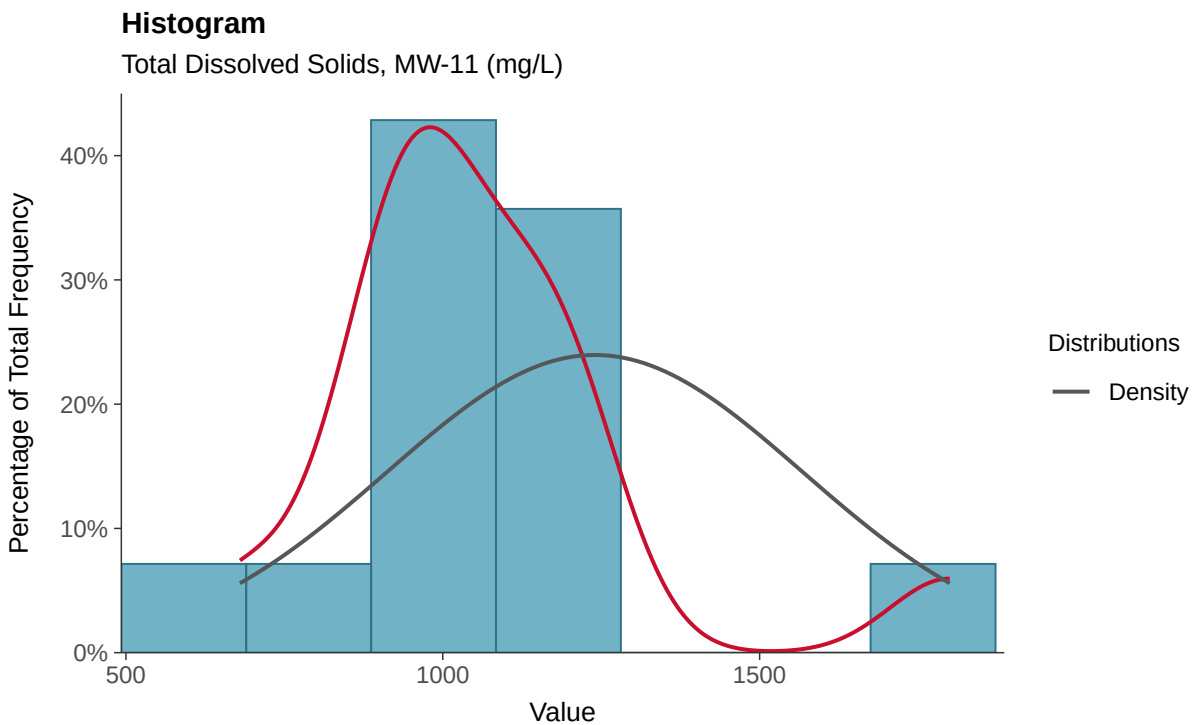
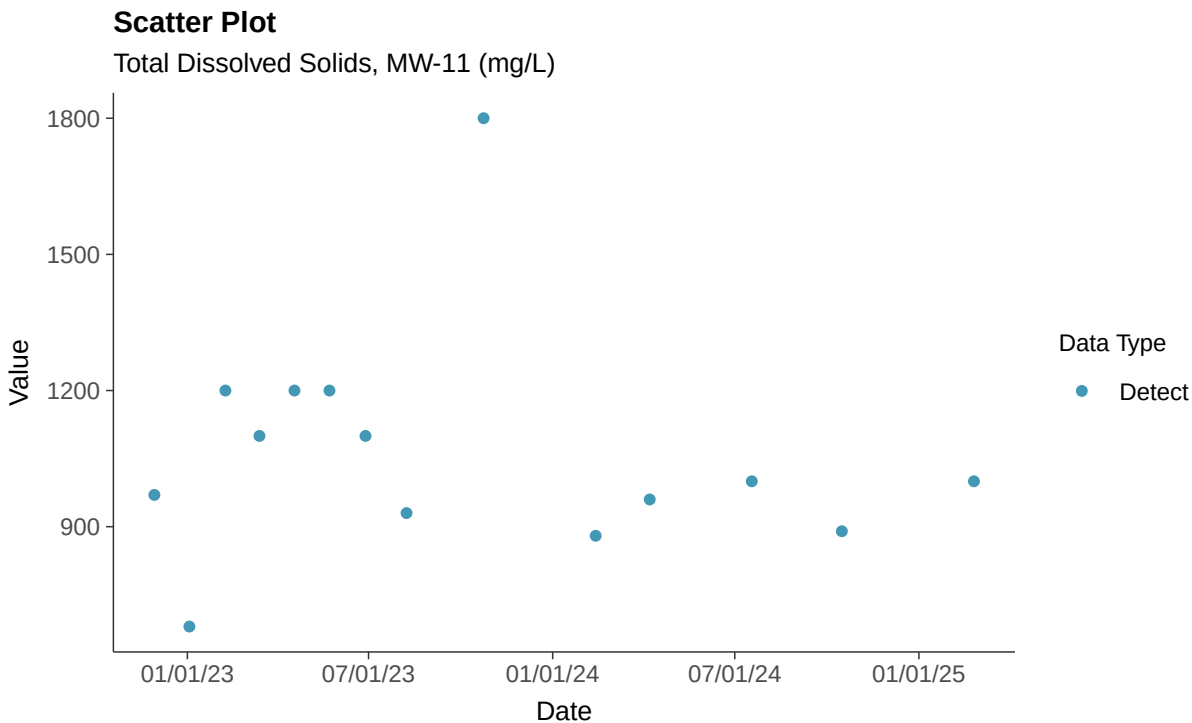


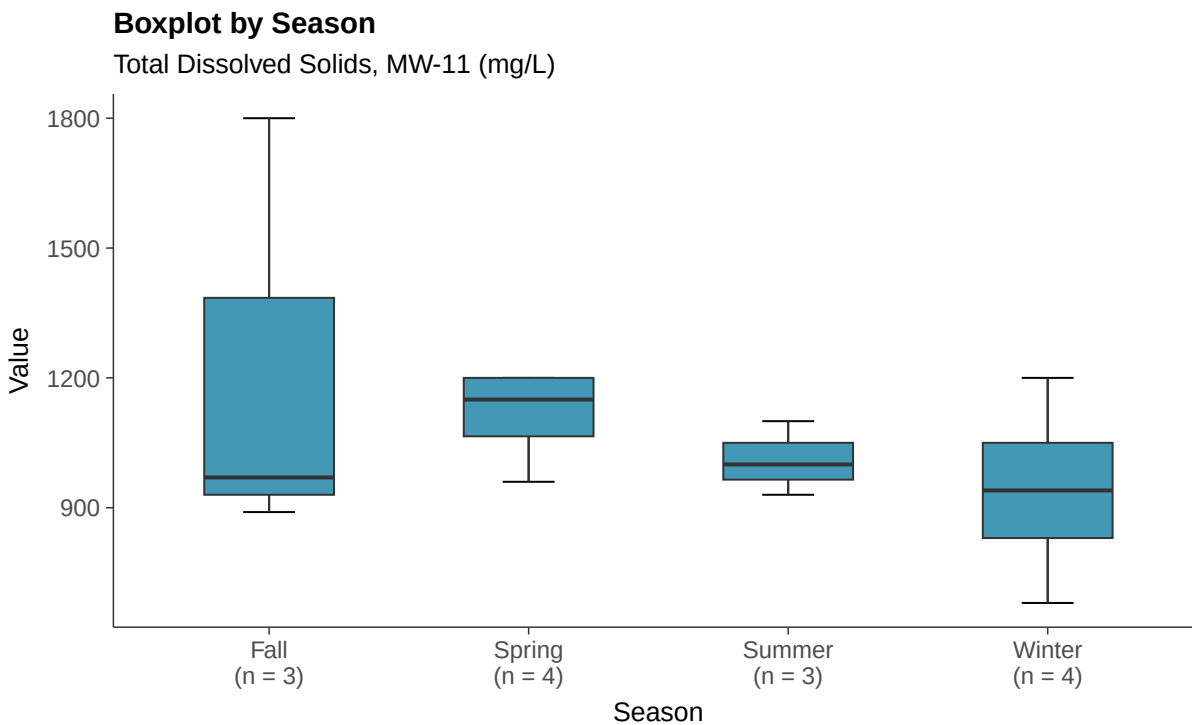
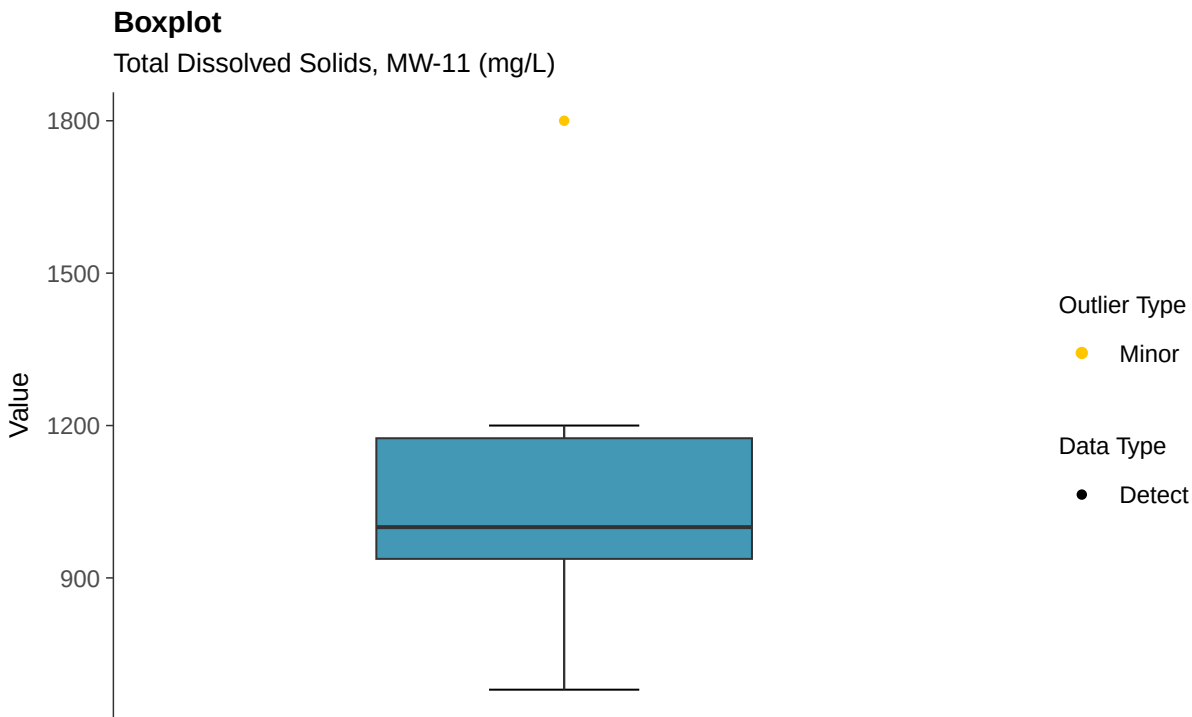




Appendix III: Total Dissolved Solids, MW-11

ID: 21_2_3_126

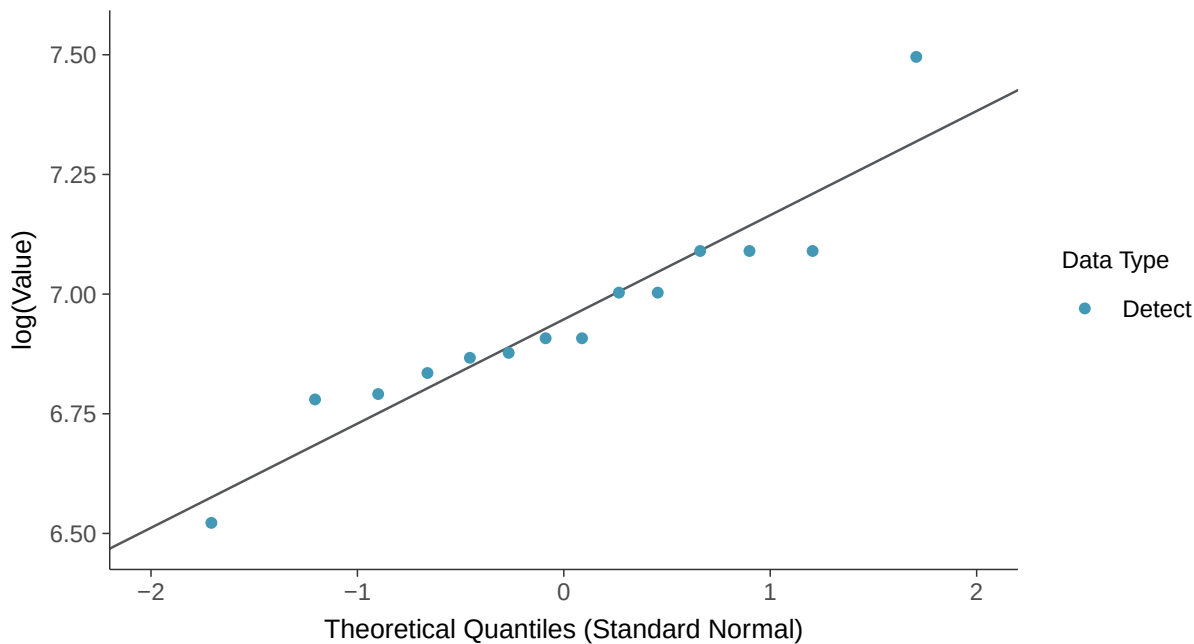






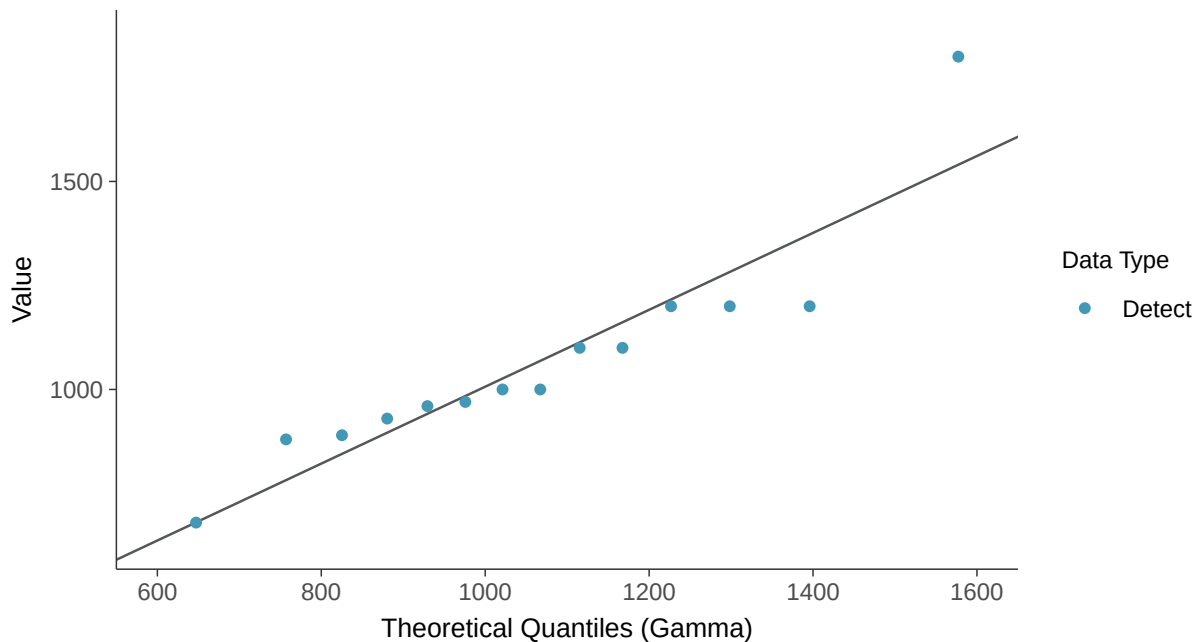
Lognormal Q-Q plot

Total Dissolved Solids, MW-11 (mg/L)



Gamma Q-Q plot

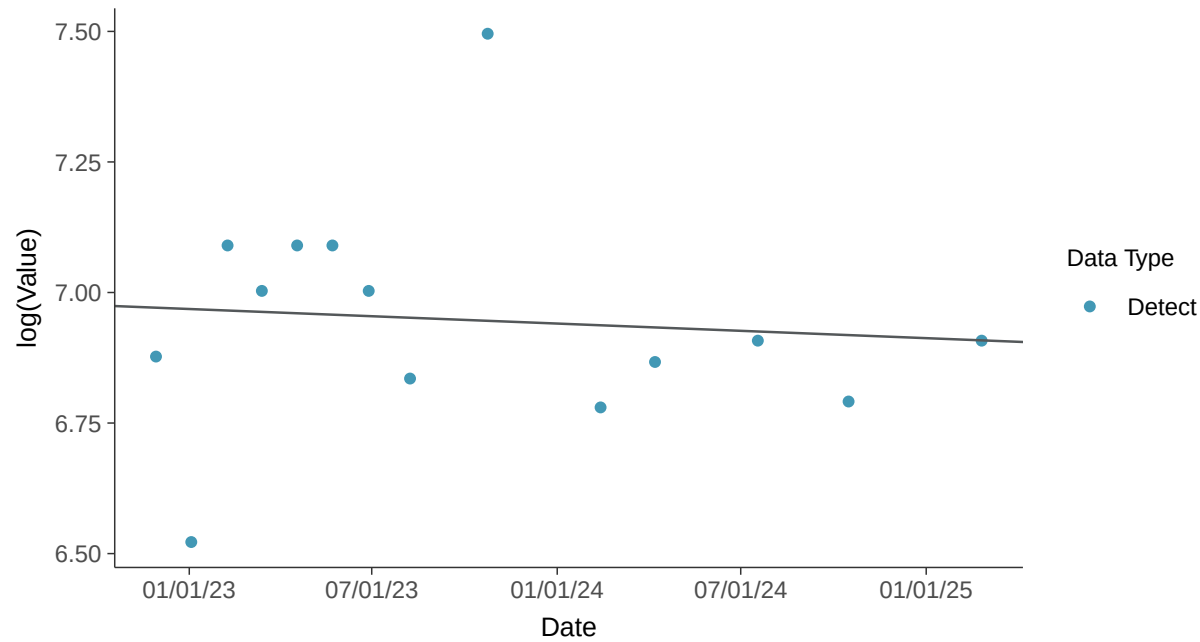
Total Dissolved Solids, MW-11 (mg/L)





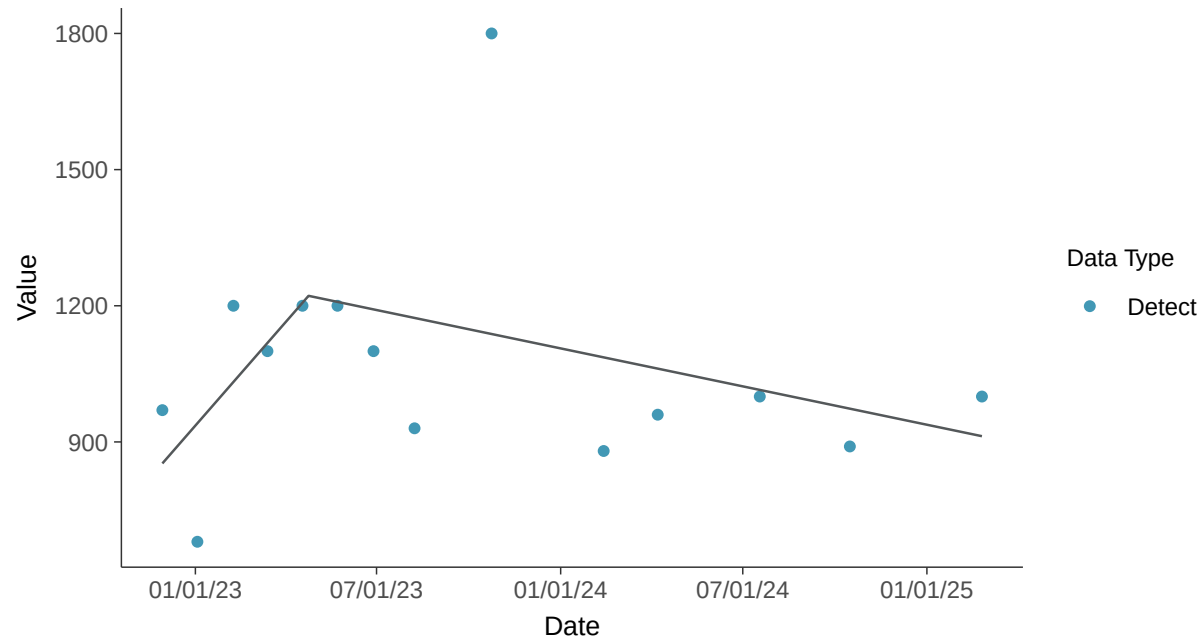
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

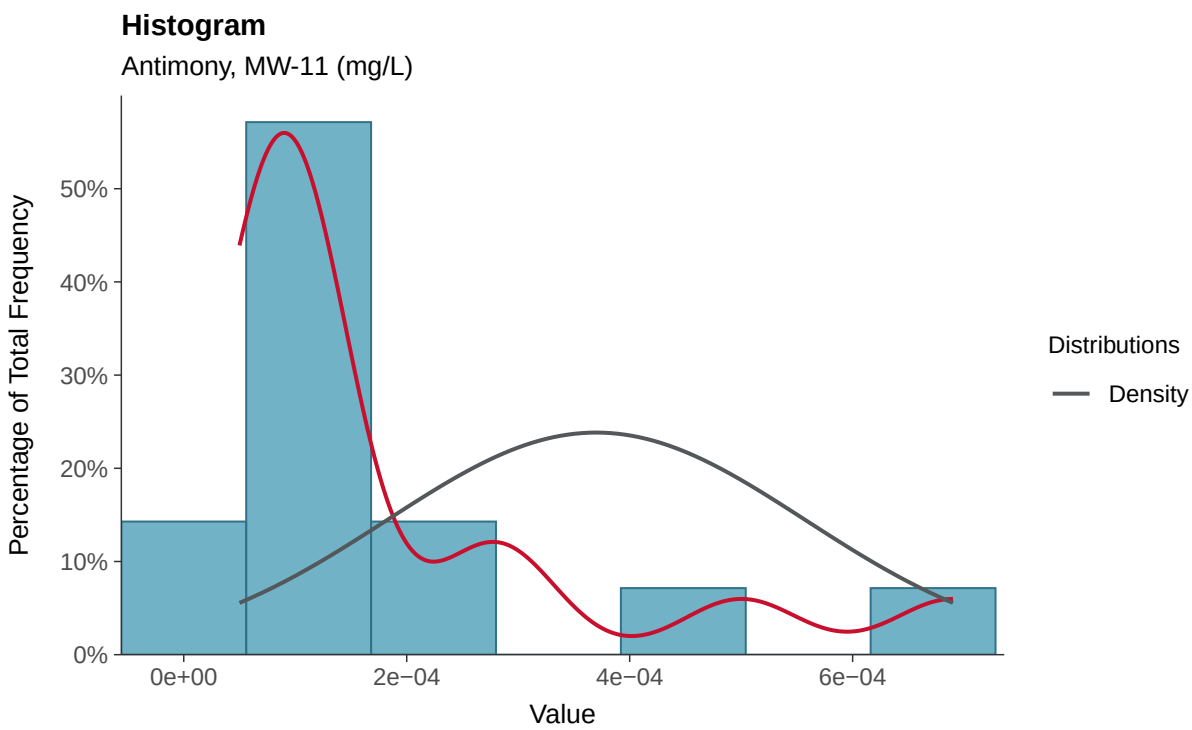
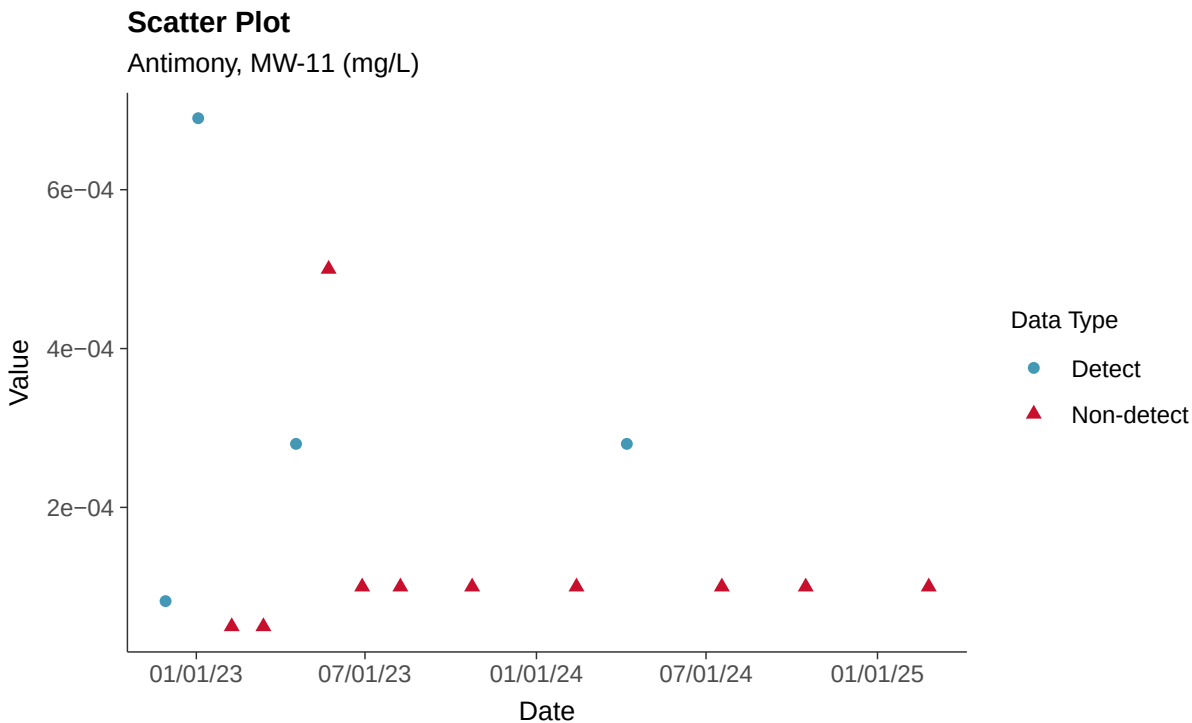
Total Dissolved Solids, MW-11 (mg/L)

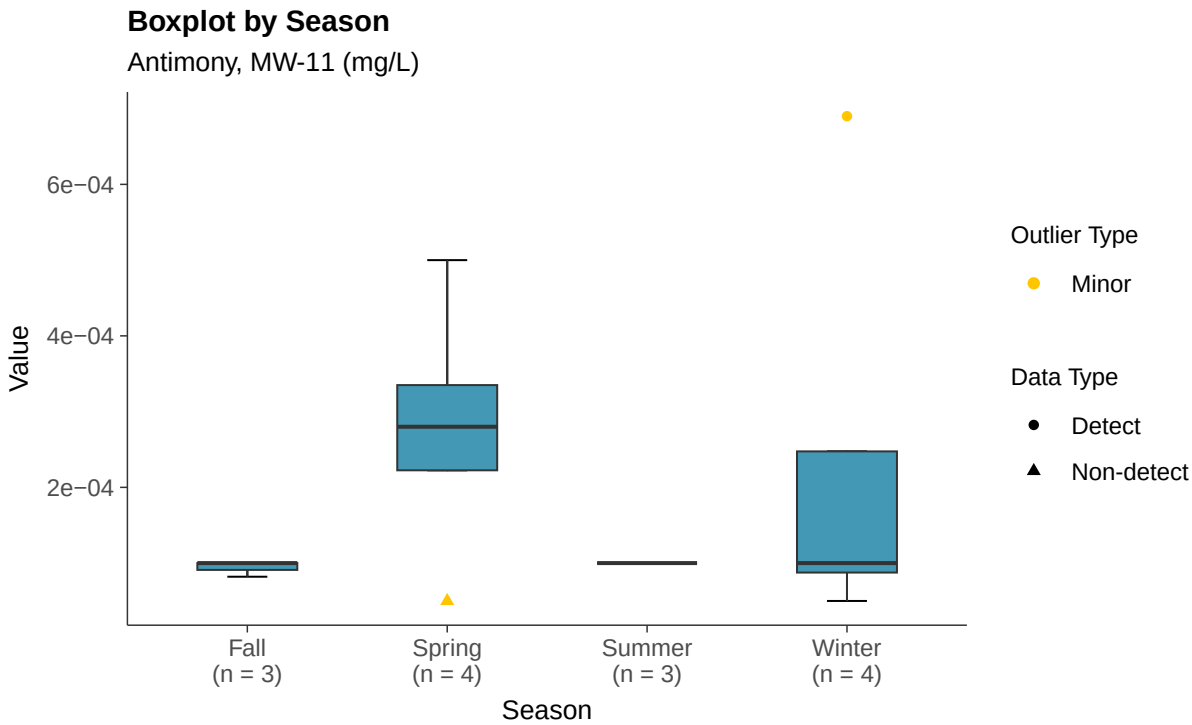
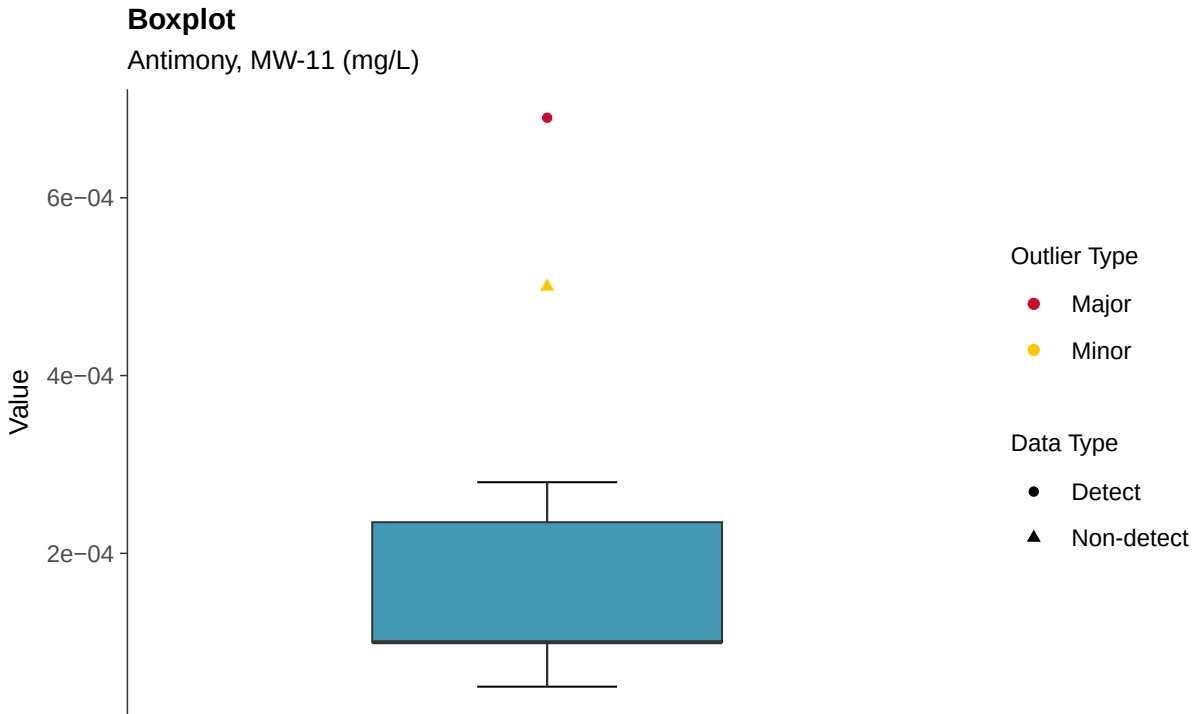




Appendix IV: Antimony, MW-11

ID: 21_2_4_101

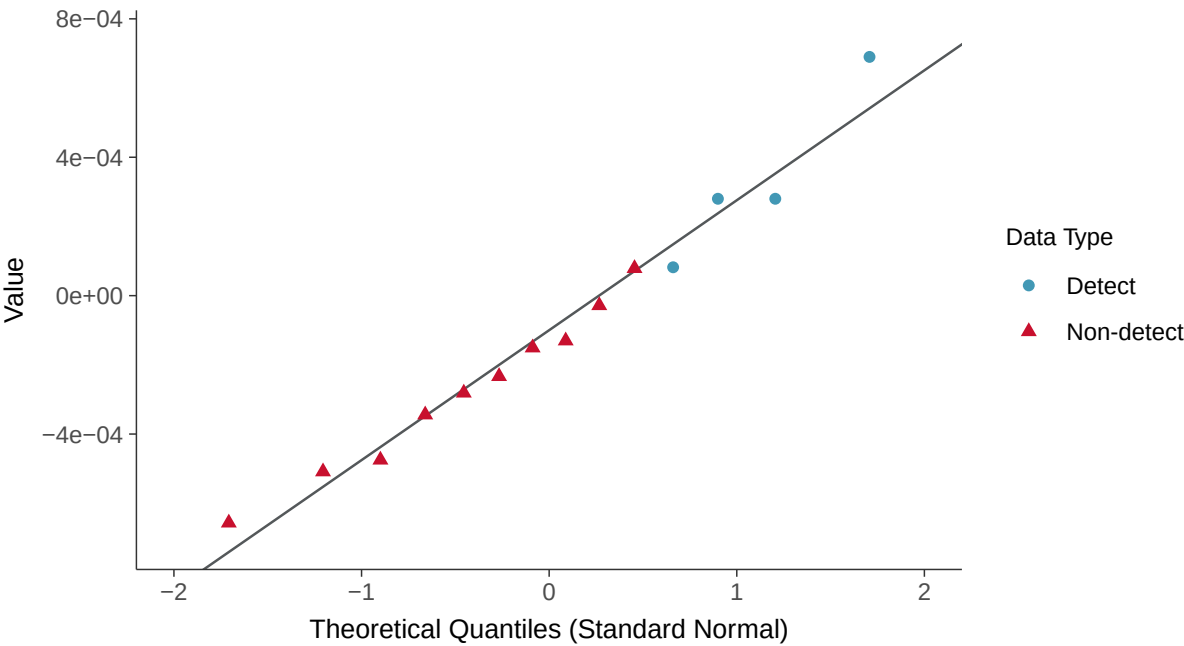






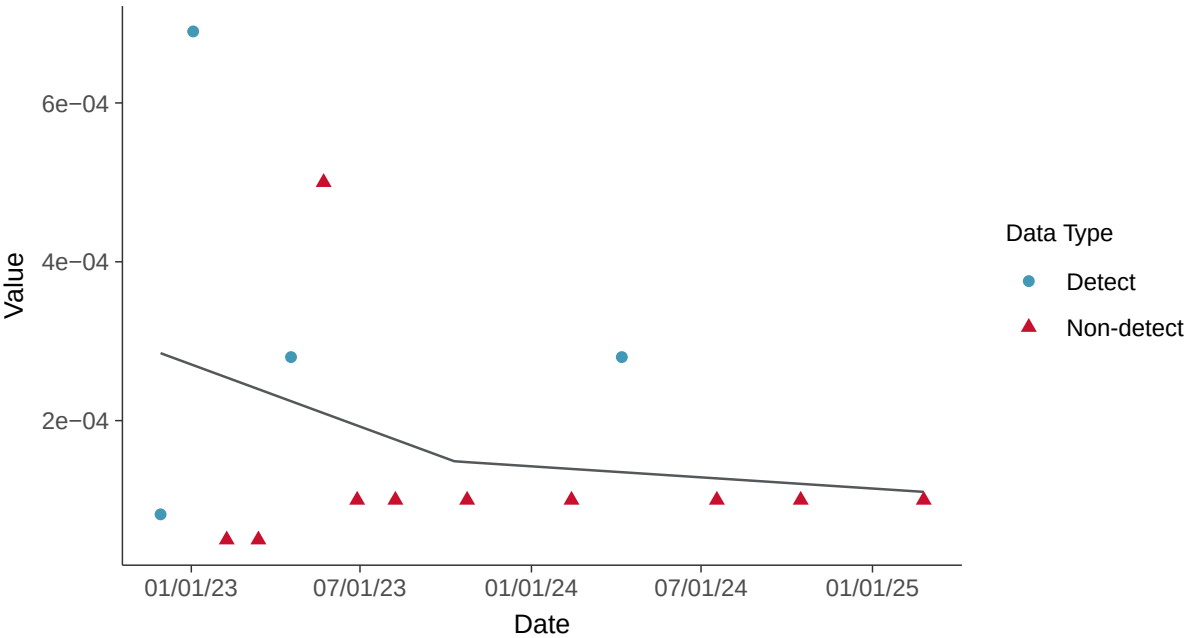
Normal Q-Q plot using ROS Imputed Estimates

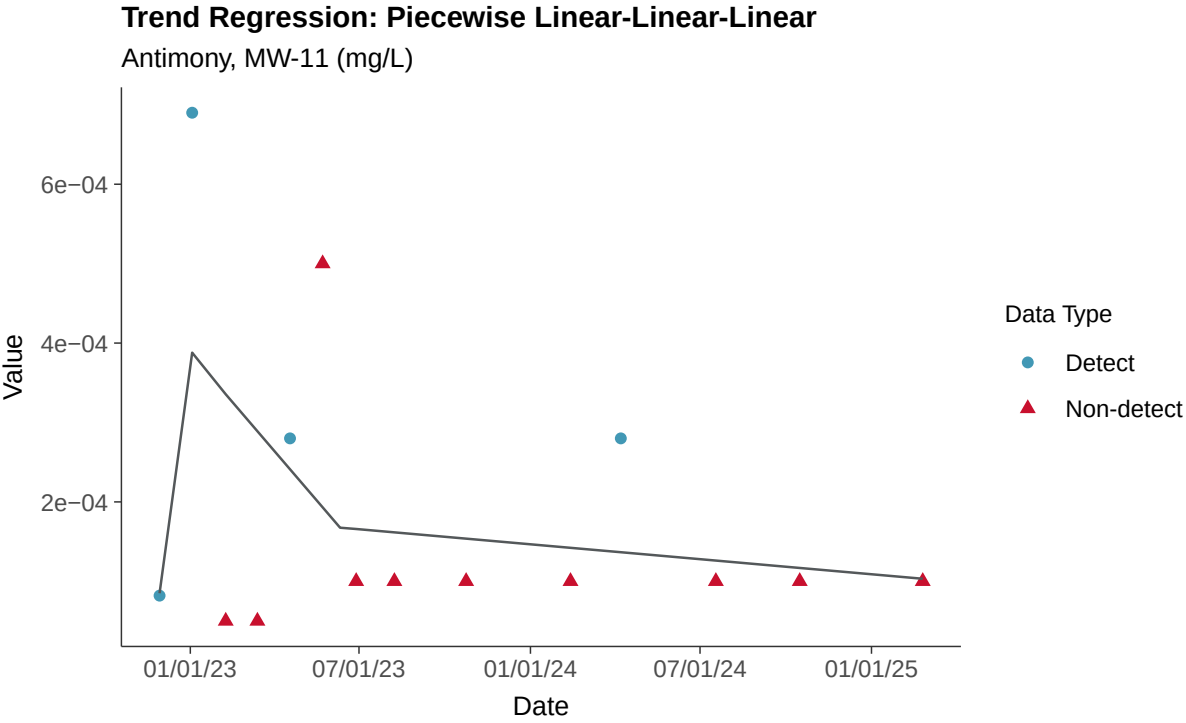
Antimony, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-11 (mg/L)

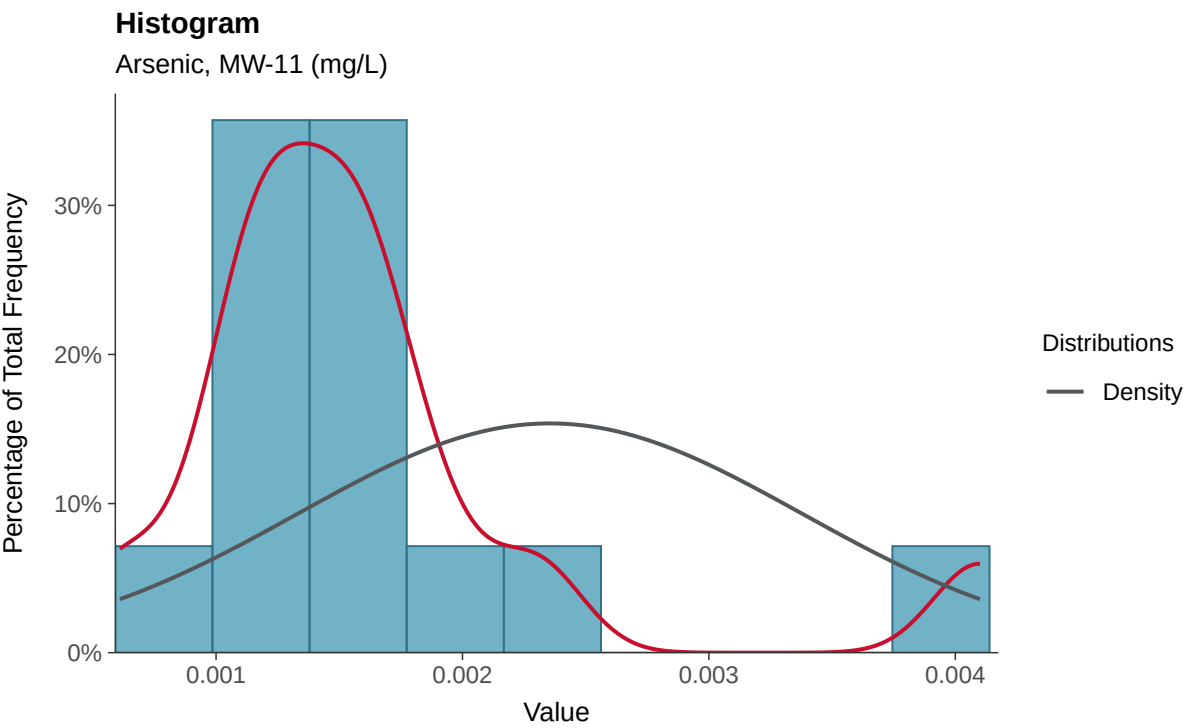
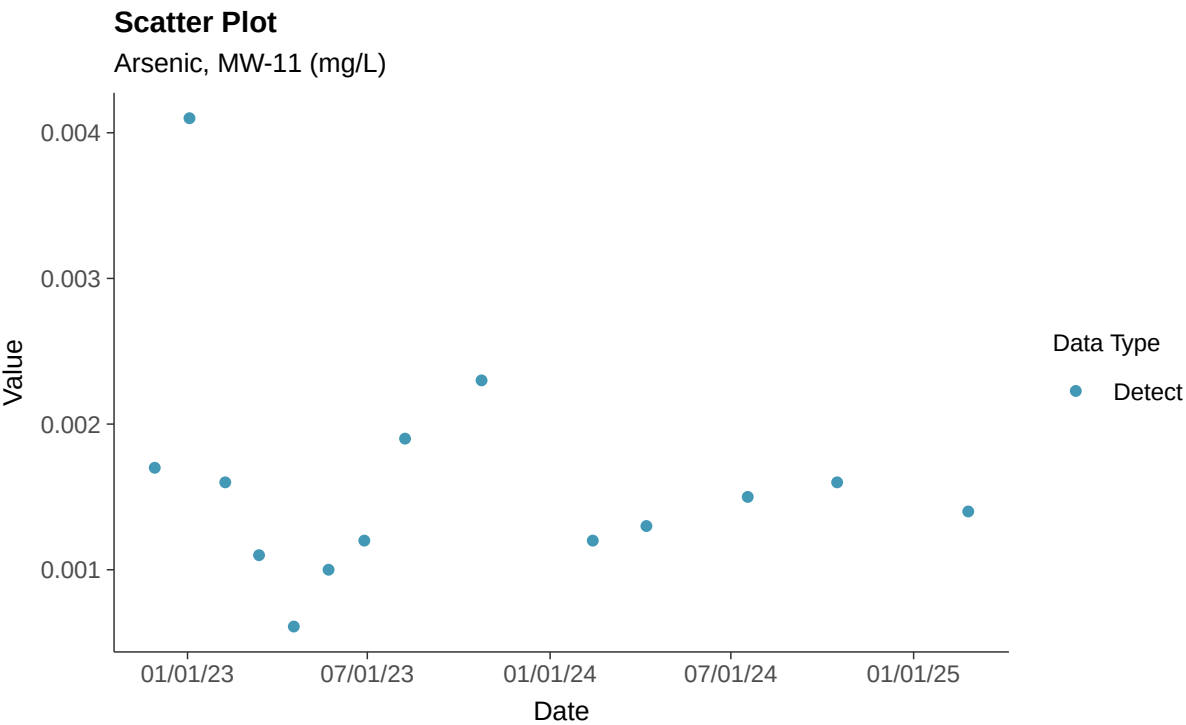


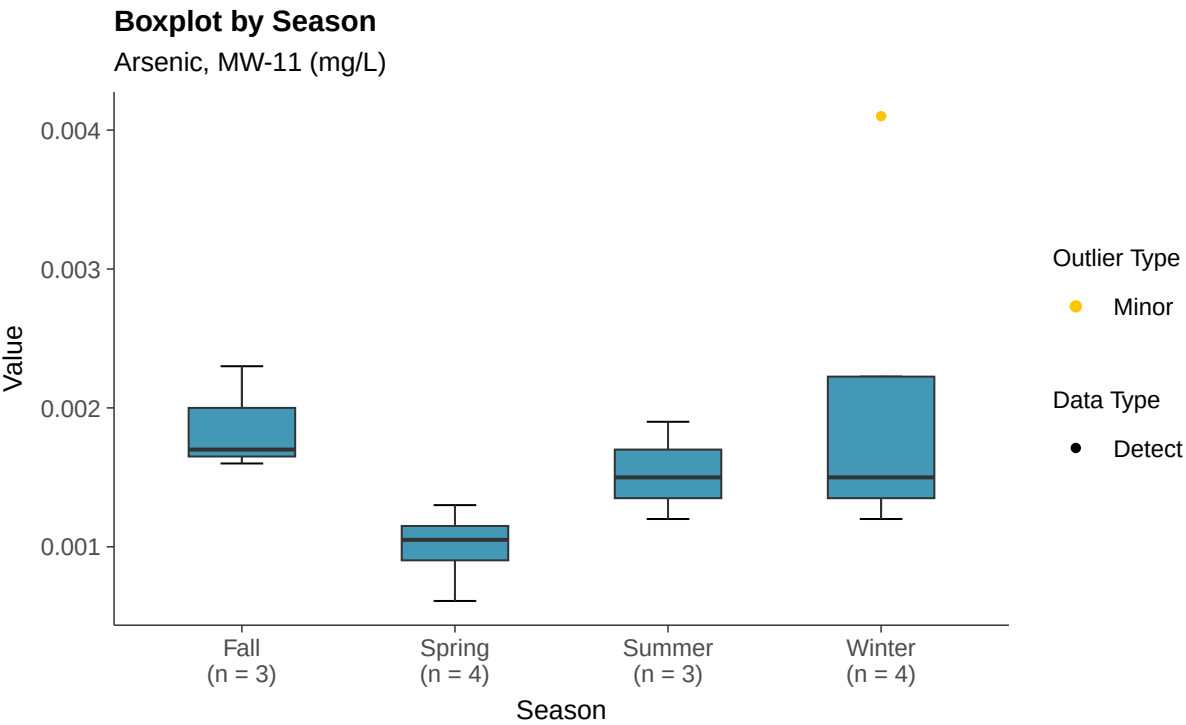
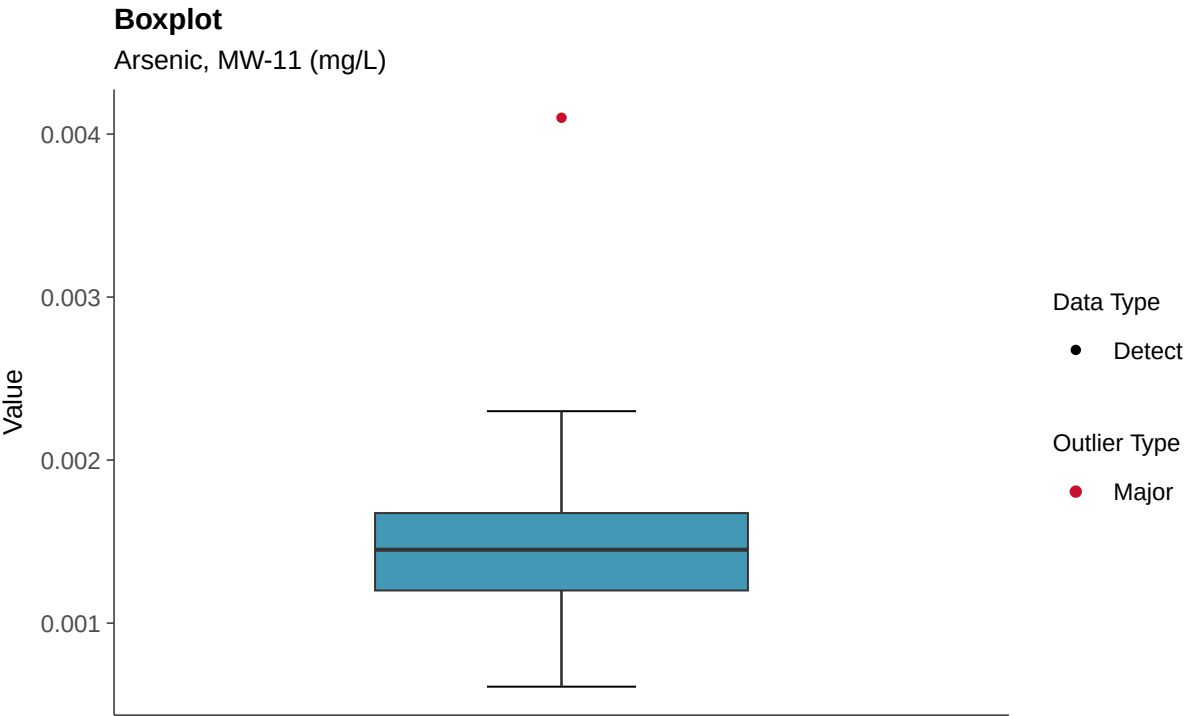


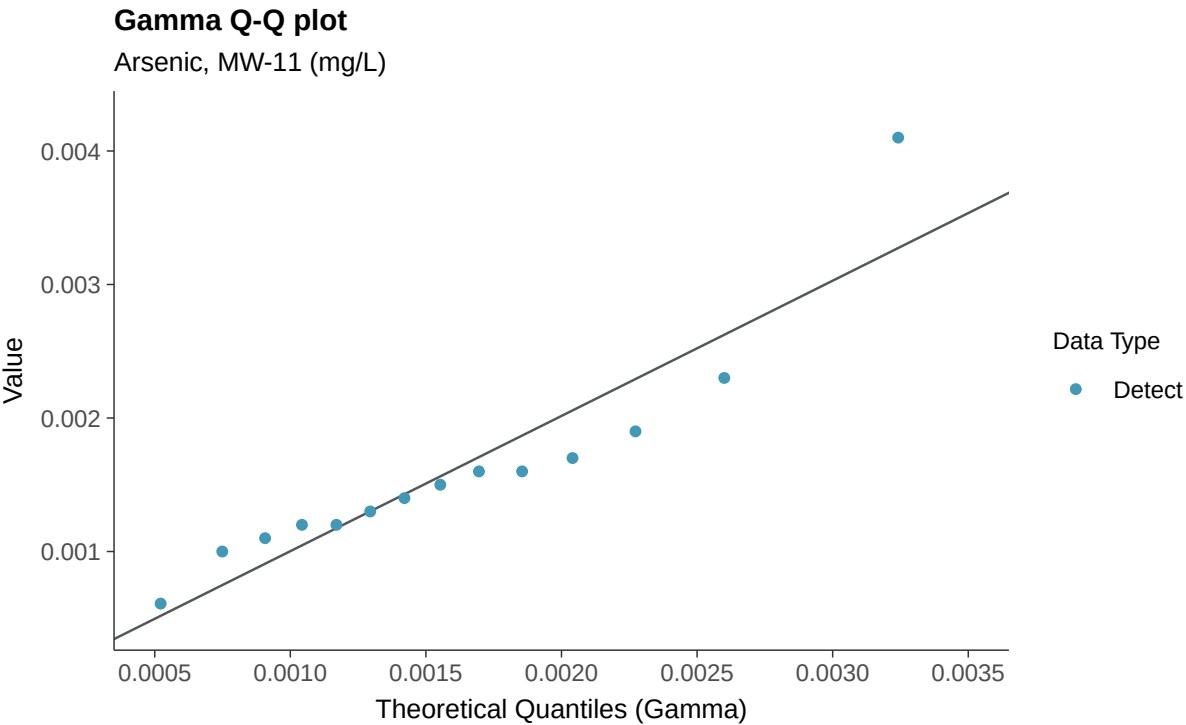
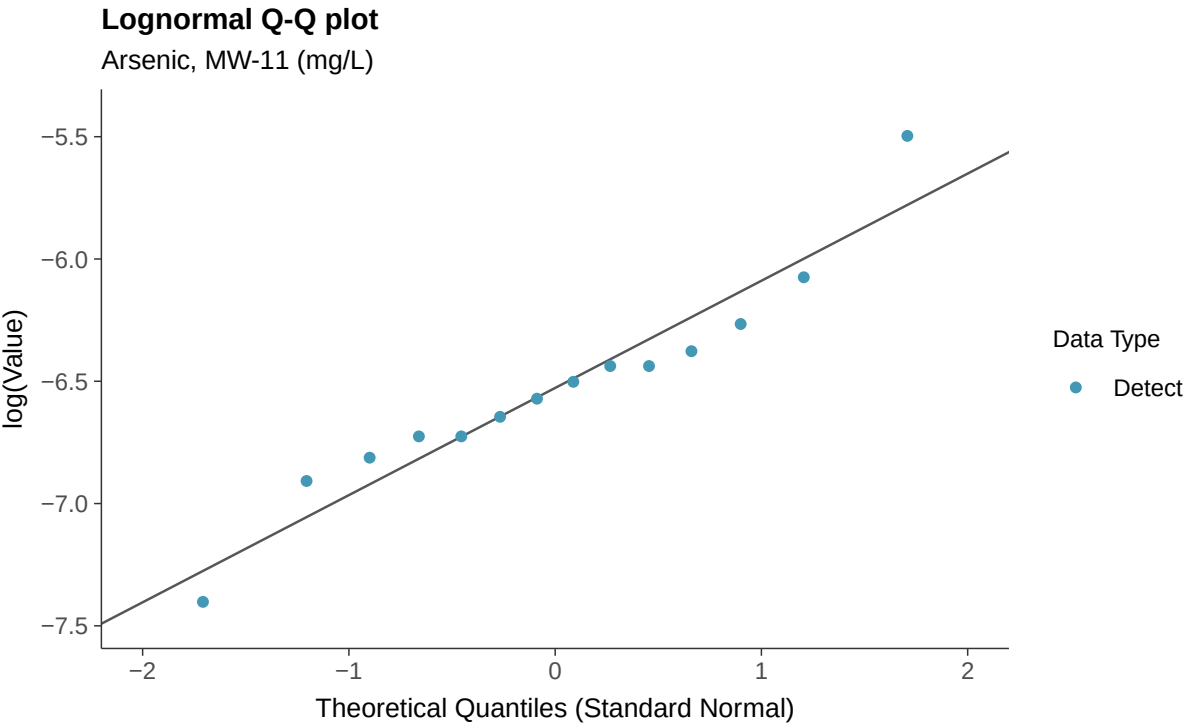


Appendix IV: Arsenic, MW-11

ID: 21_2_4_102



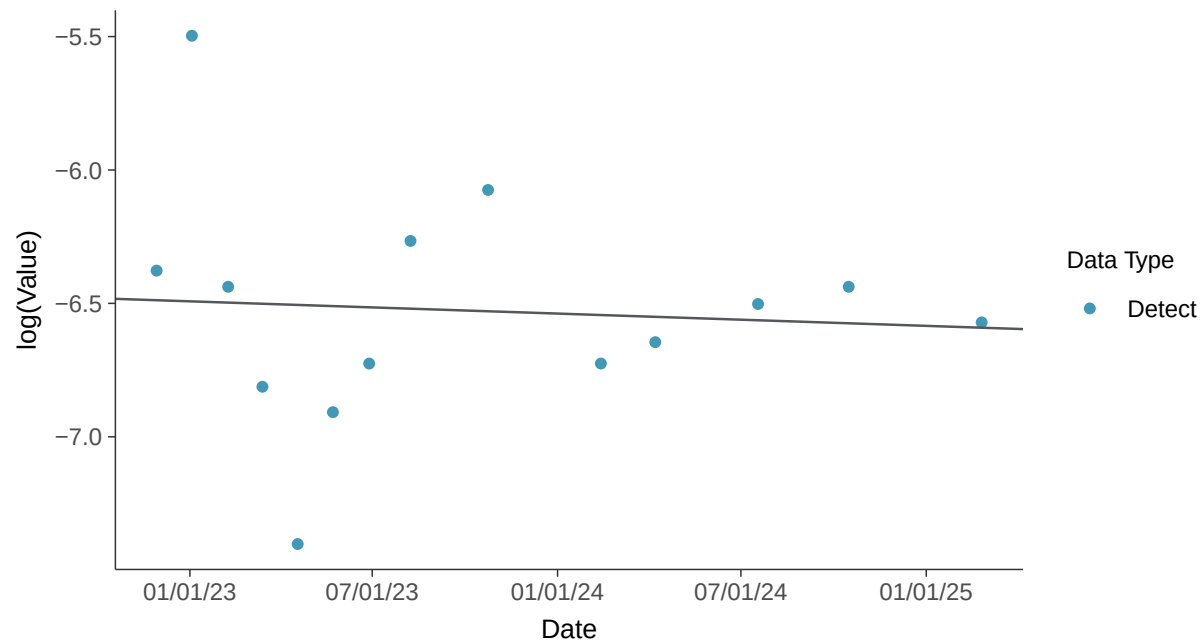






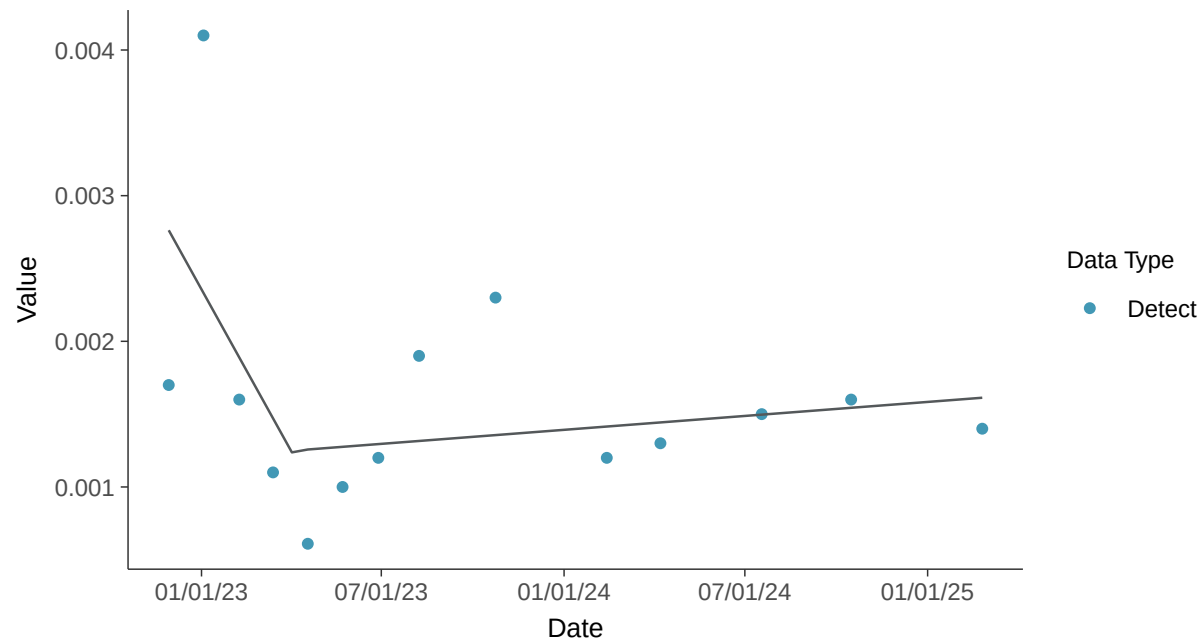
Trend Regression: Lognormal MLE

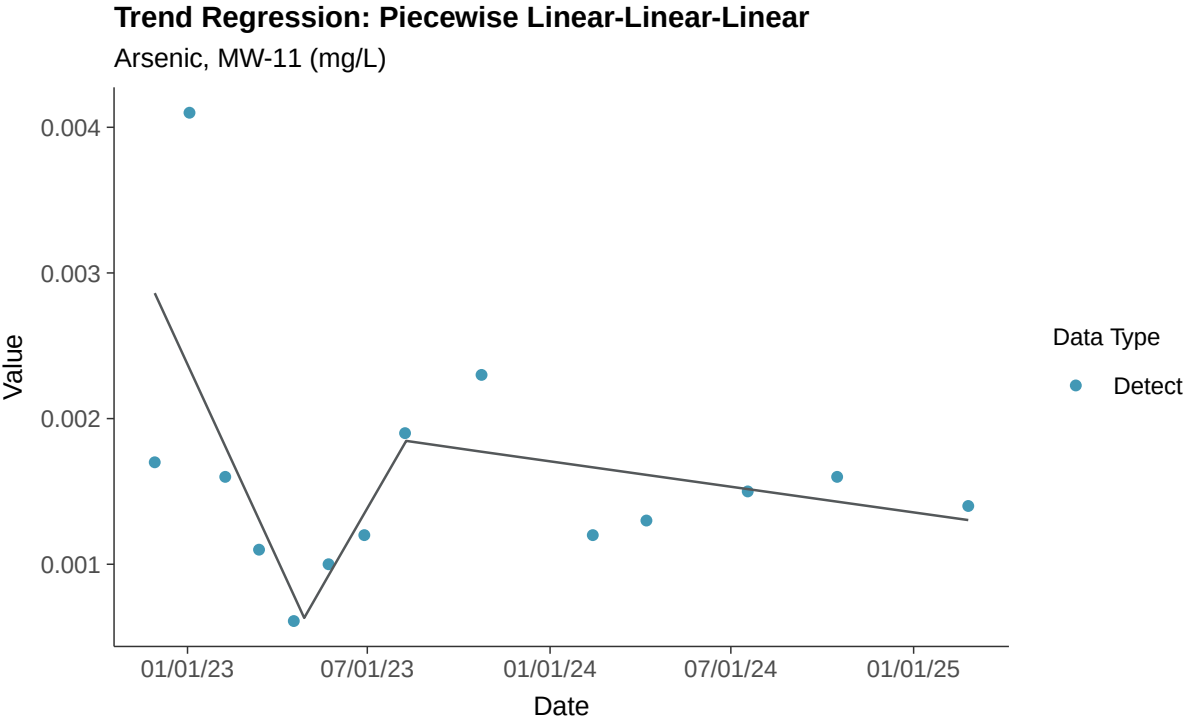
Arsenic, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-11 (mg/L)

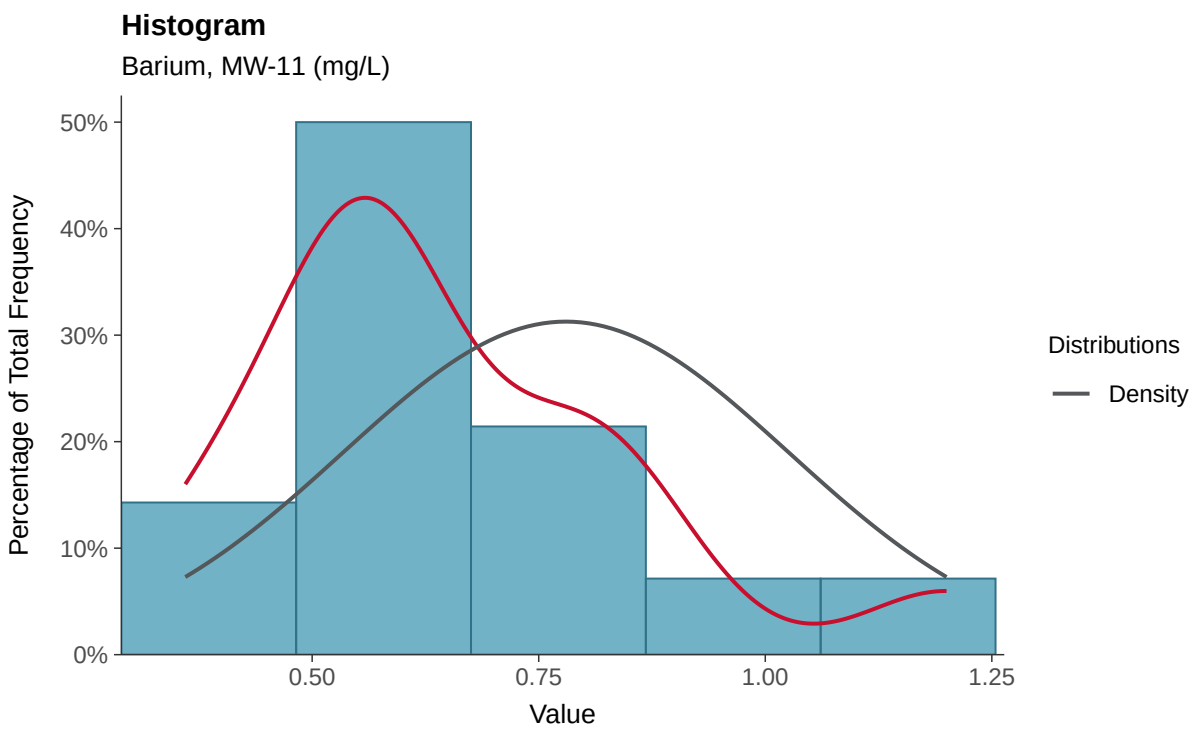
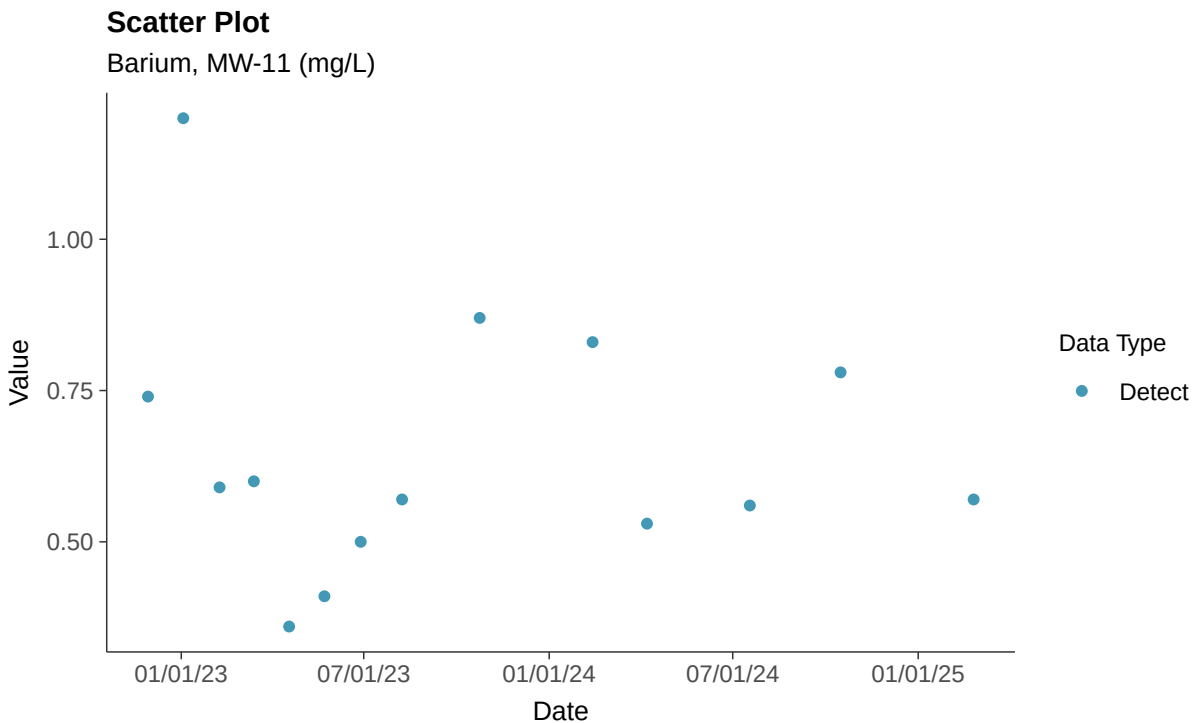


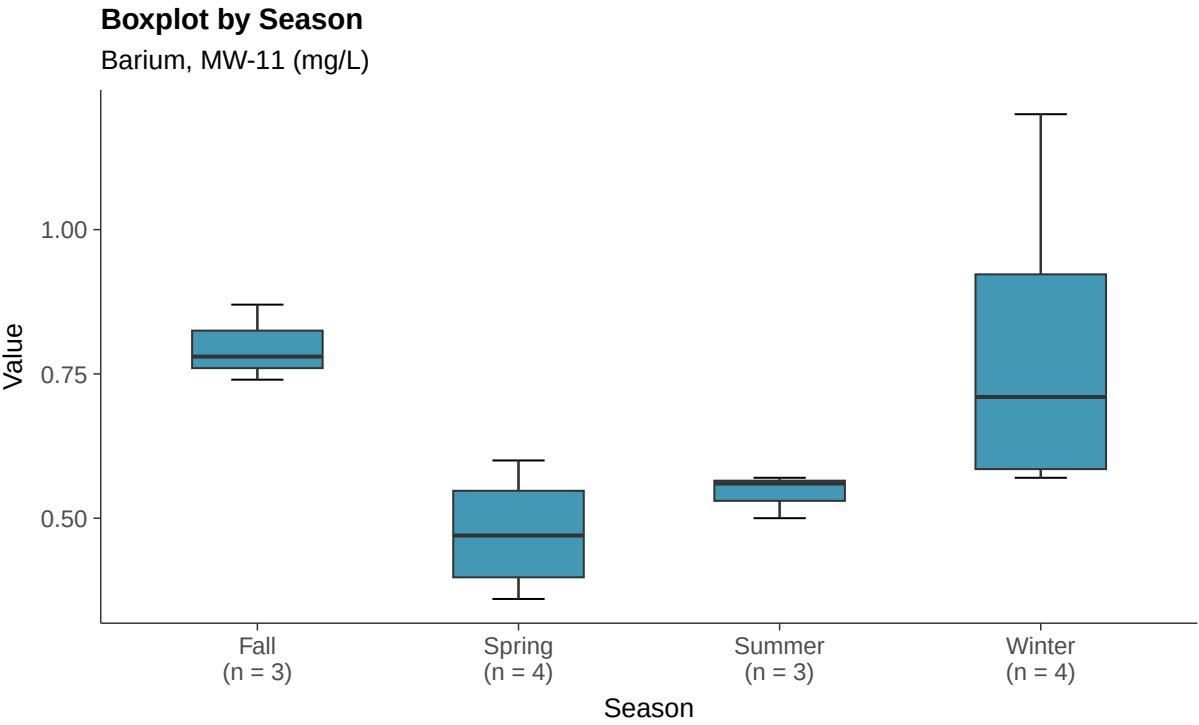
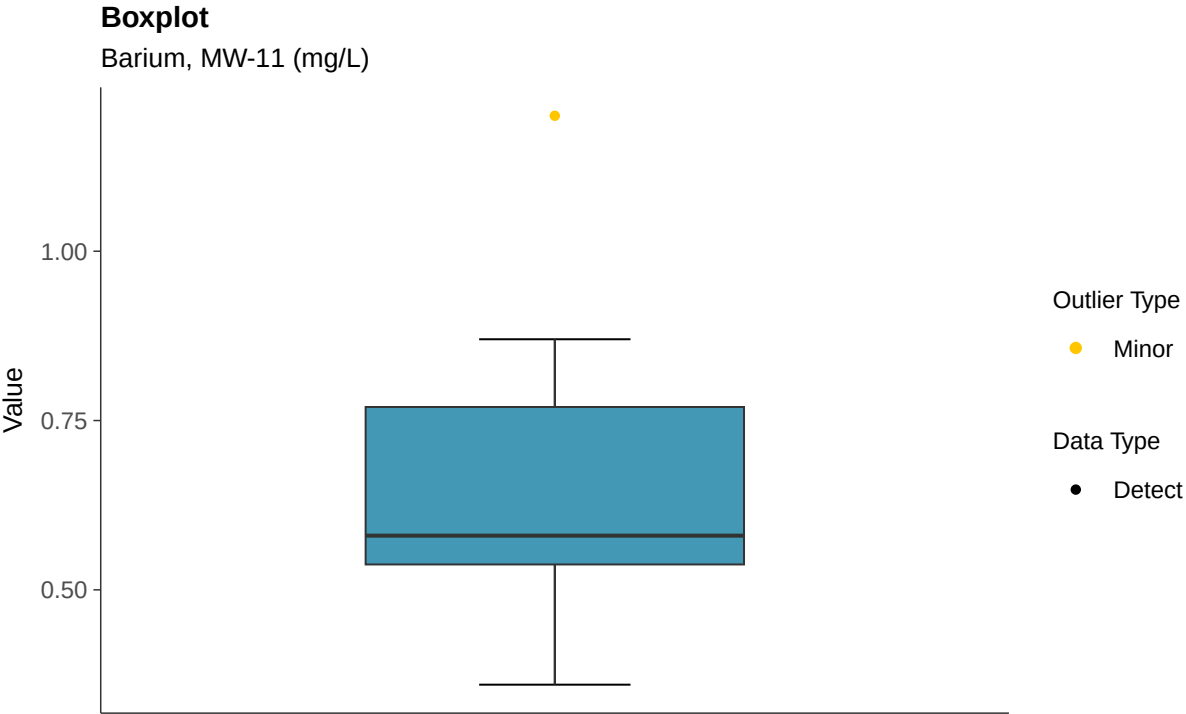


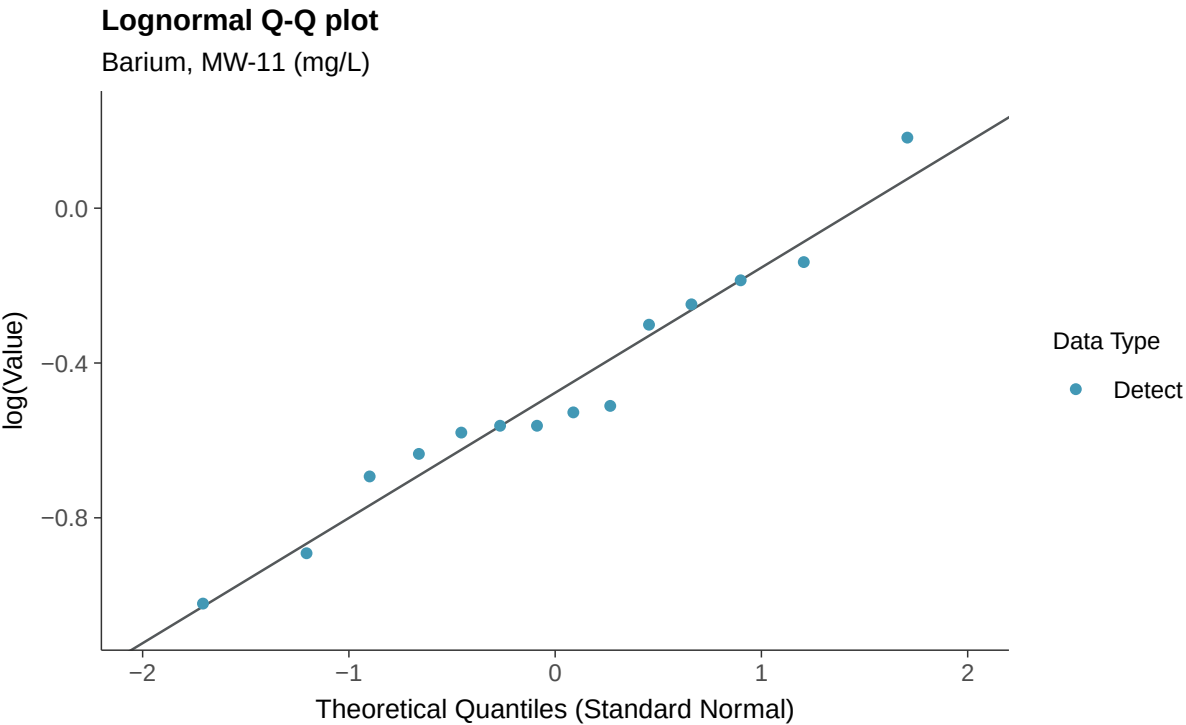
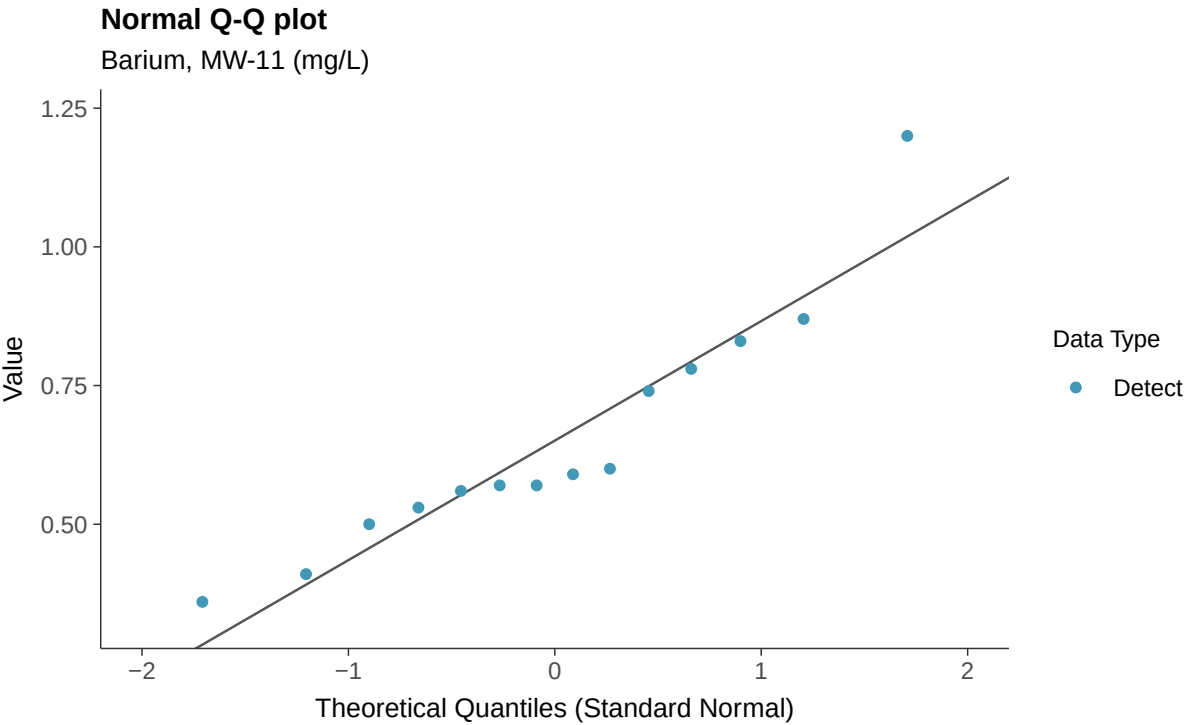


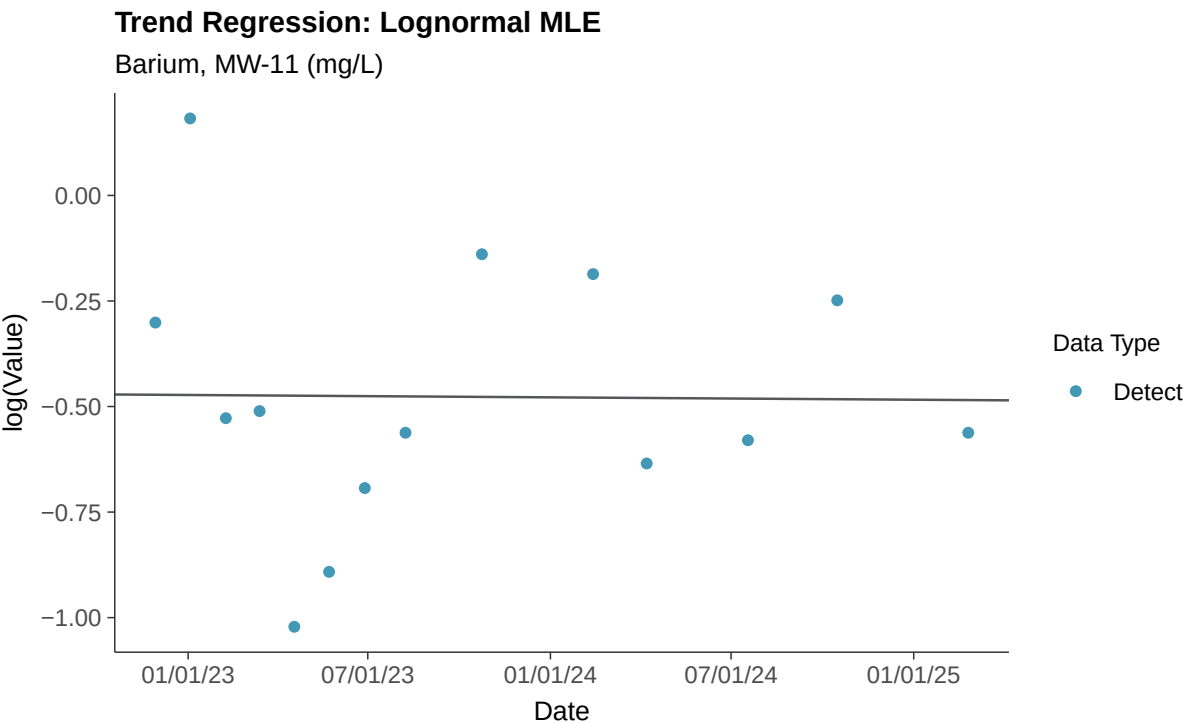
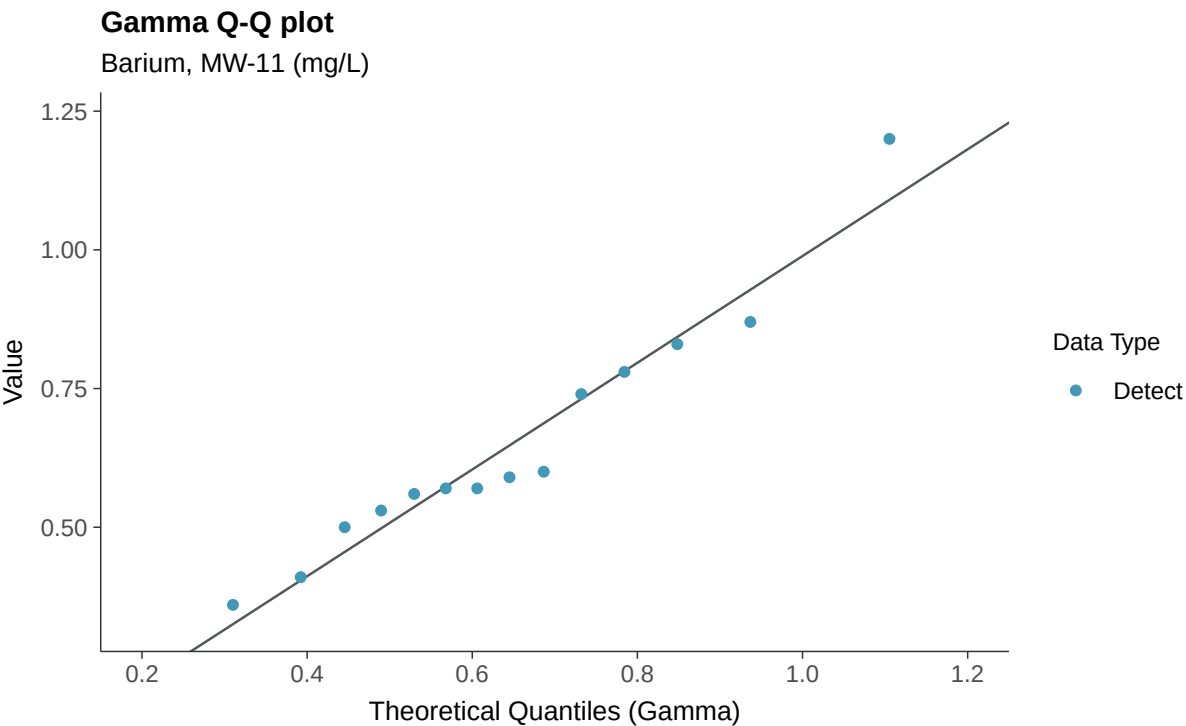
Appendix IV: Barium, MW-11

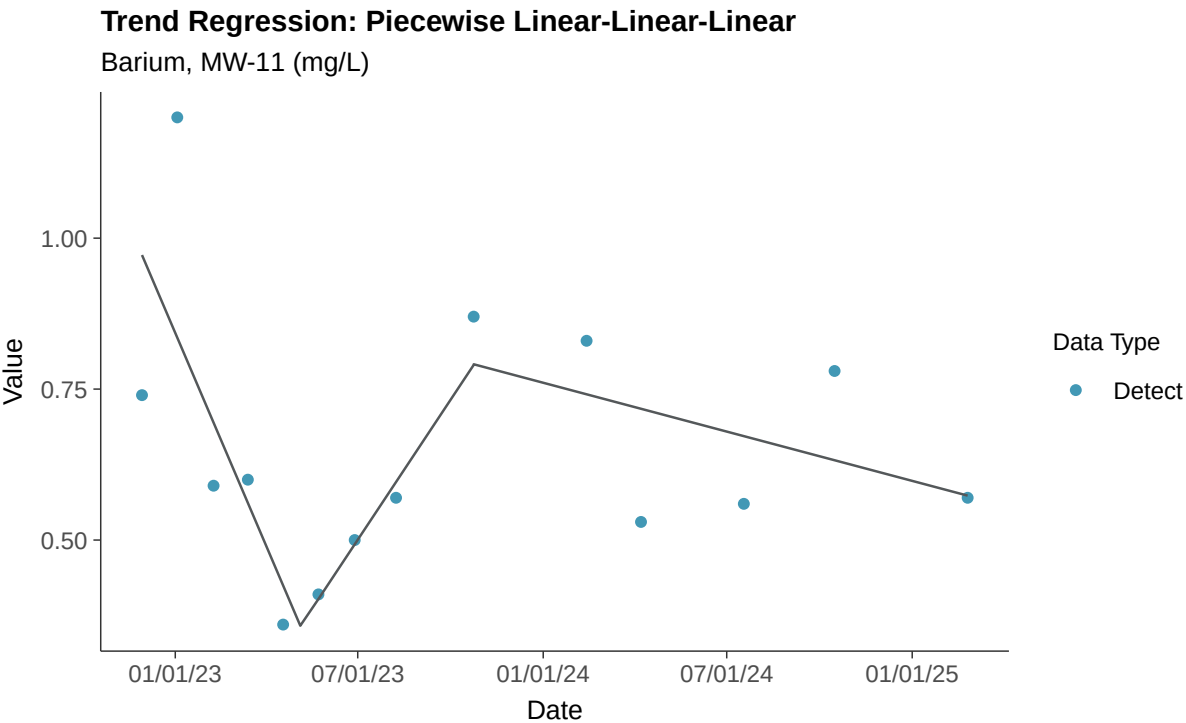
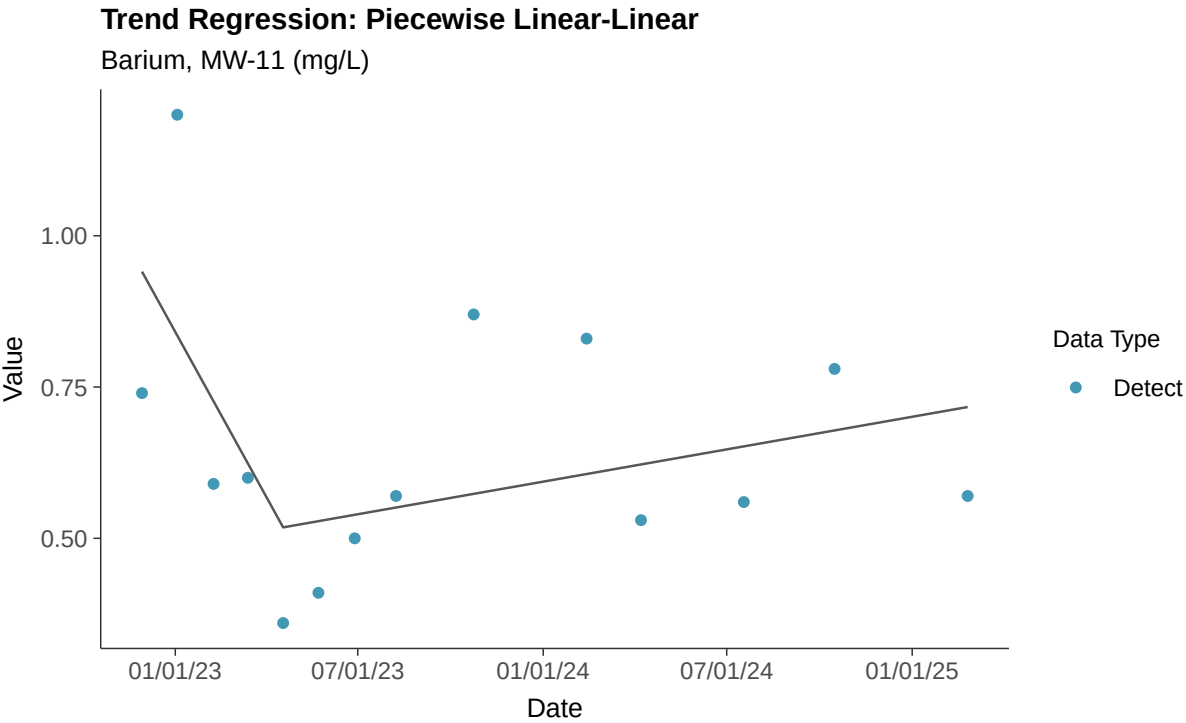
ID: 21_2_4_103







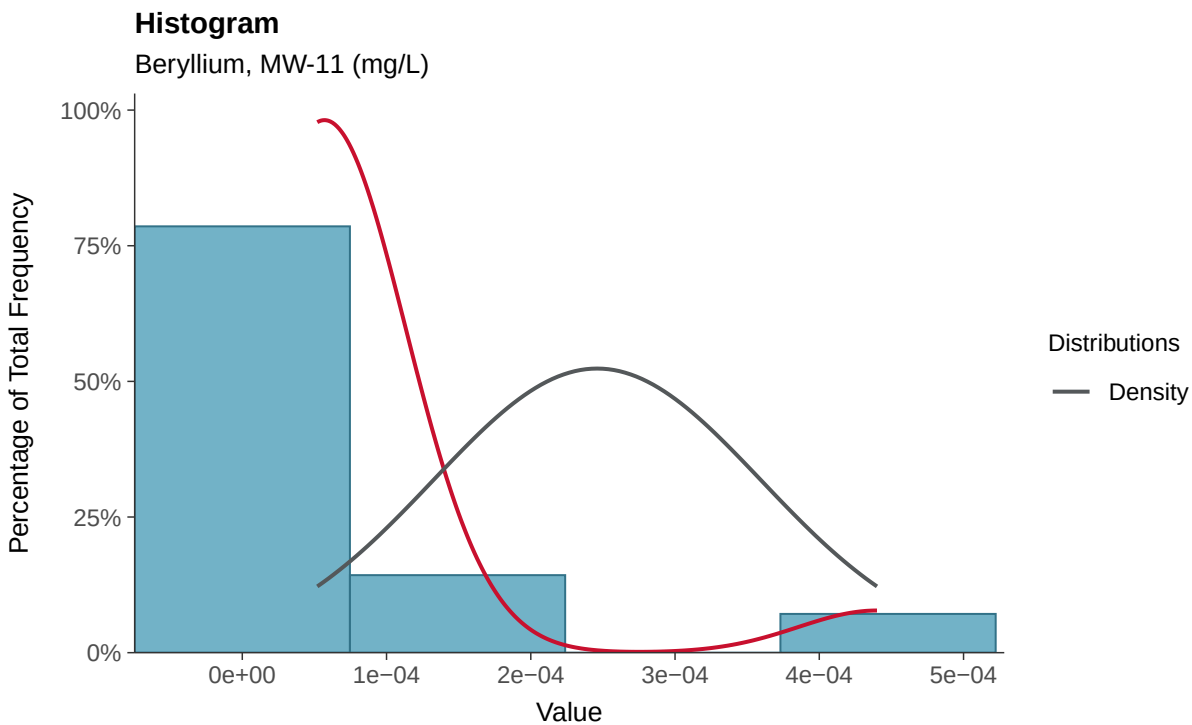
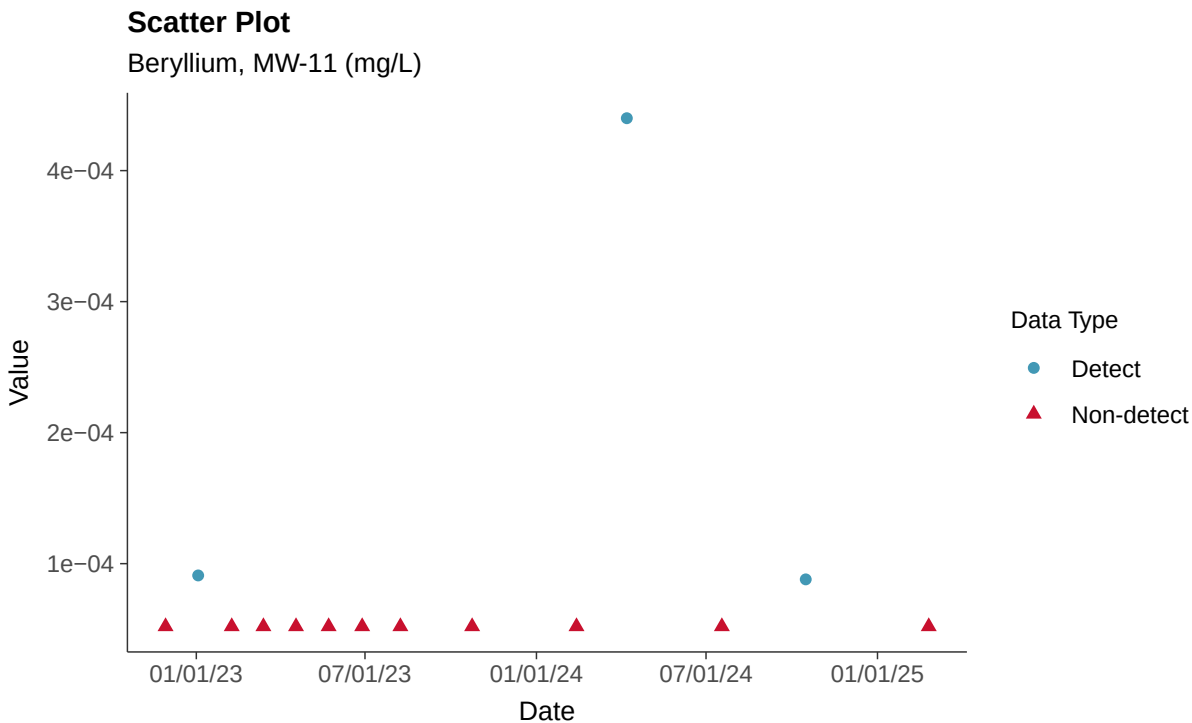


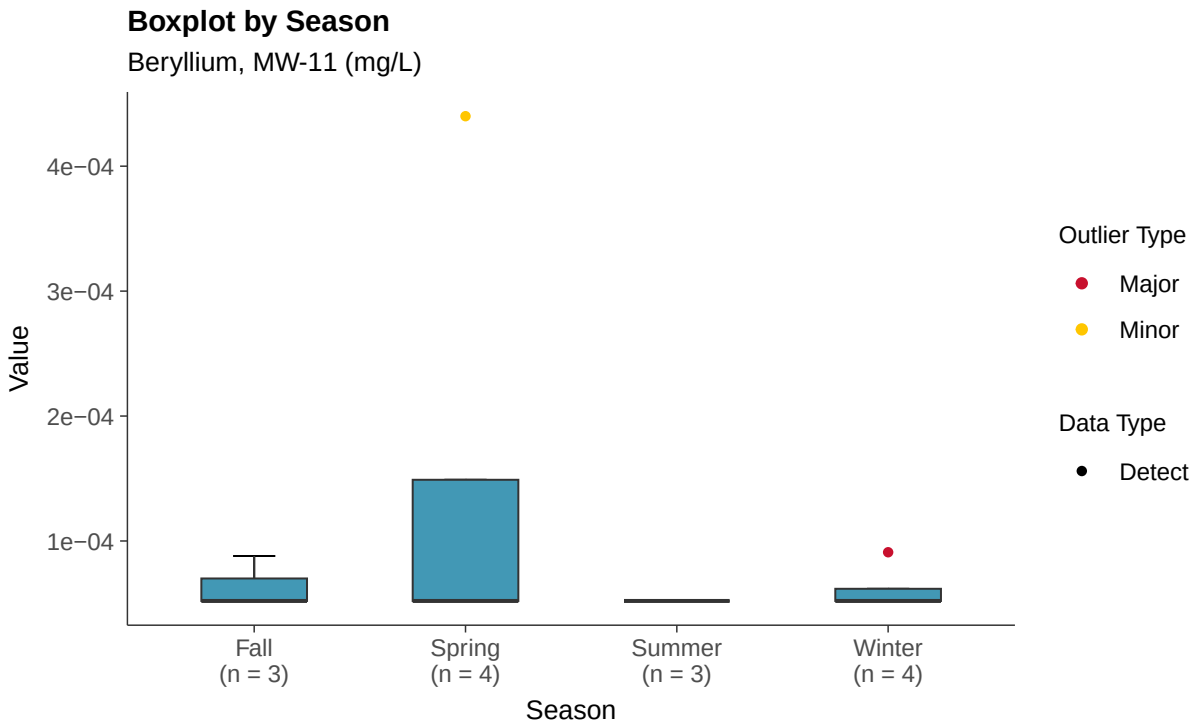
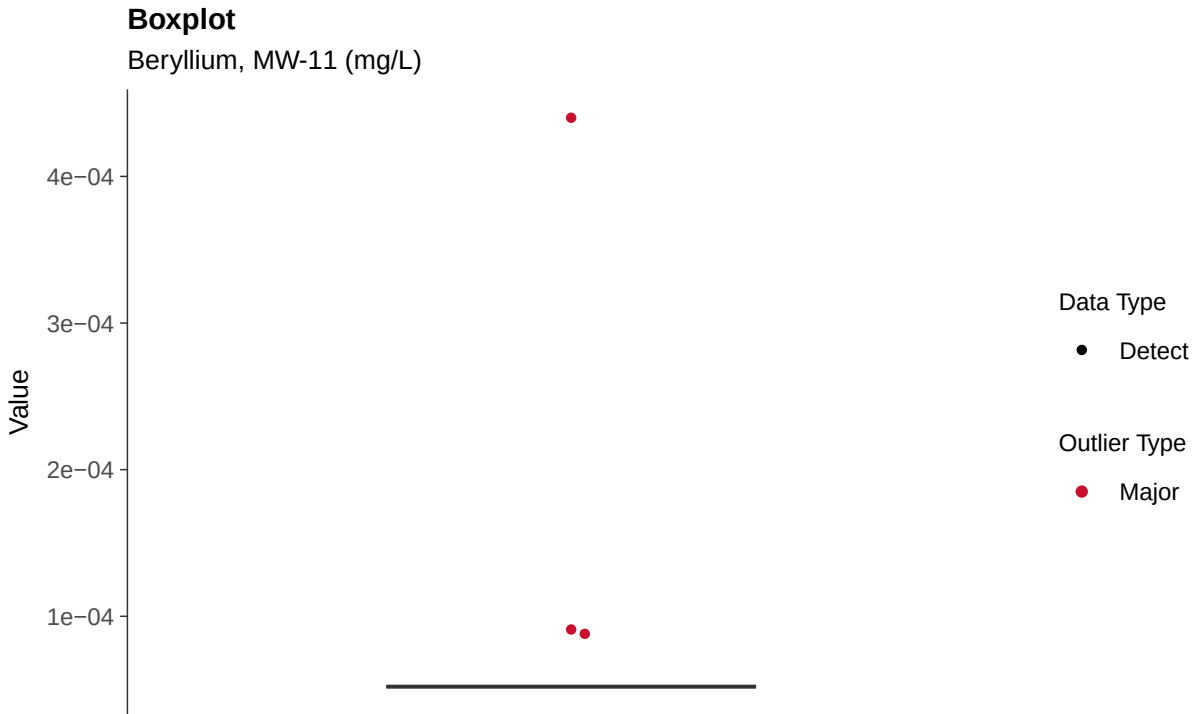


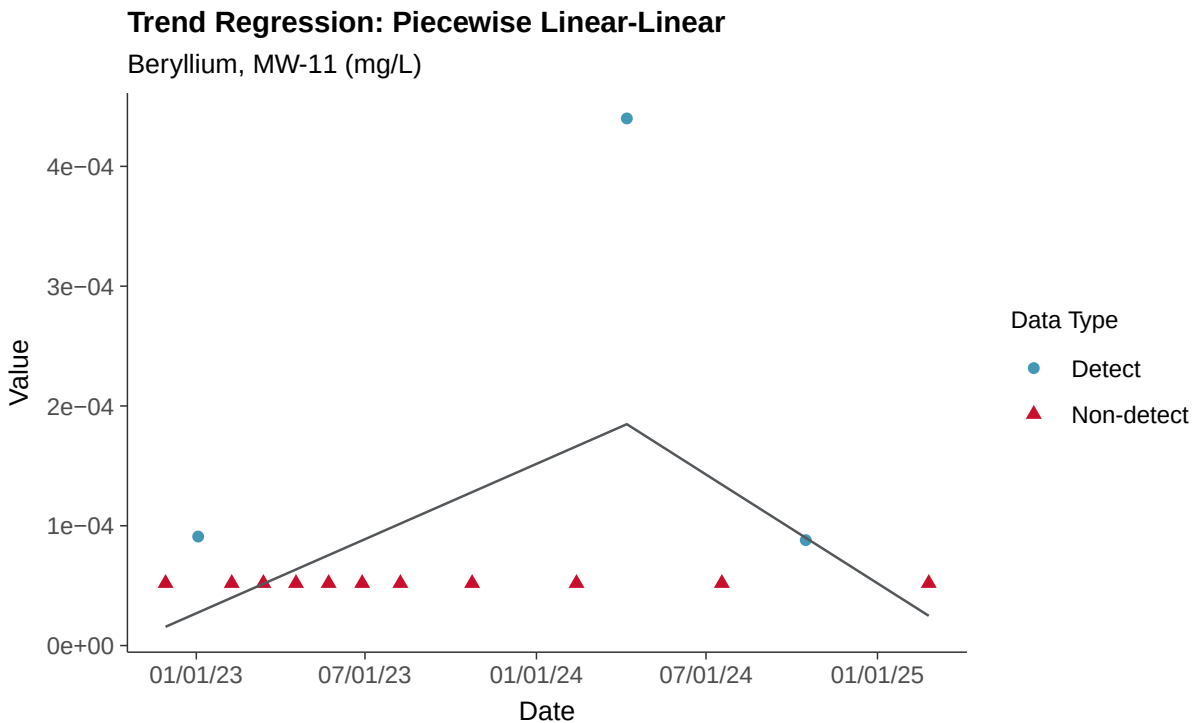
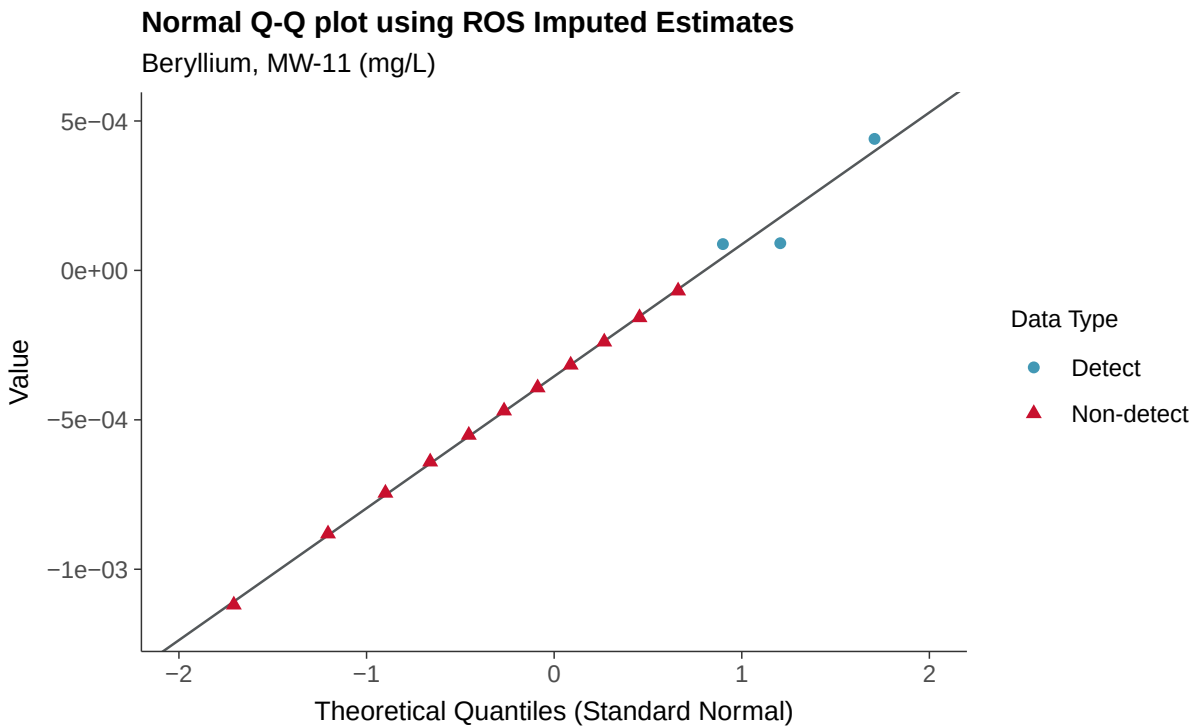


Appendix IV: Beryllium, MW-11

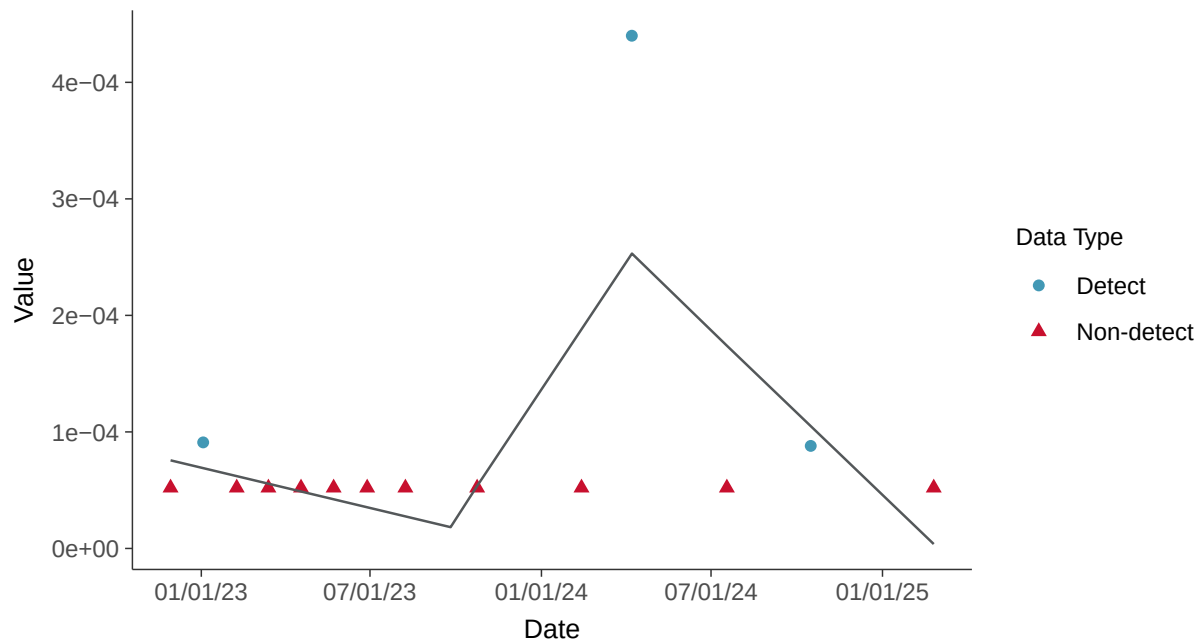
ID: 21_2_4_104







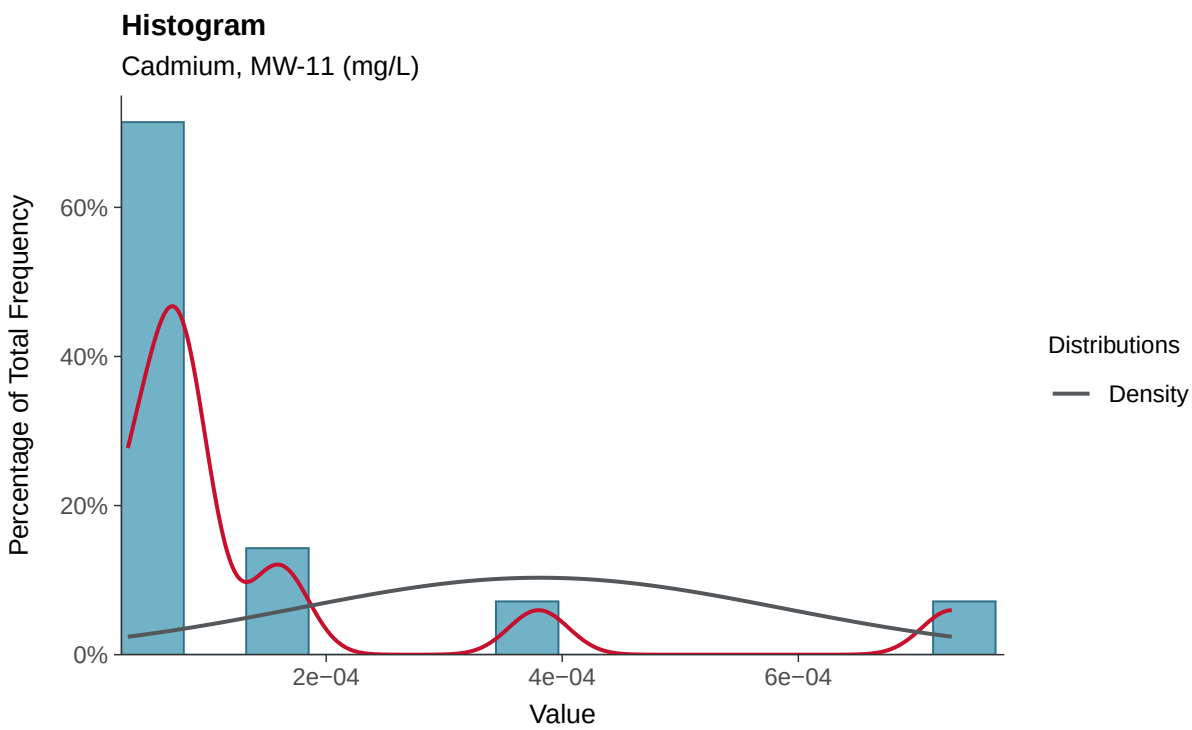
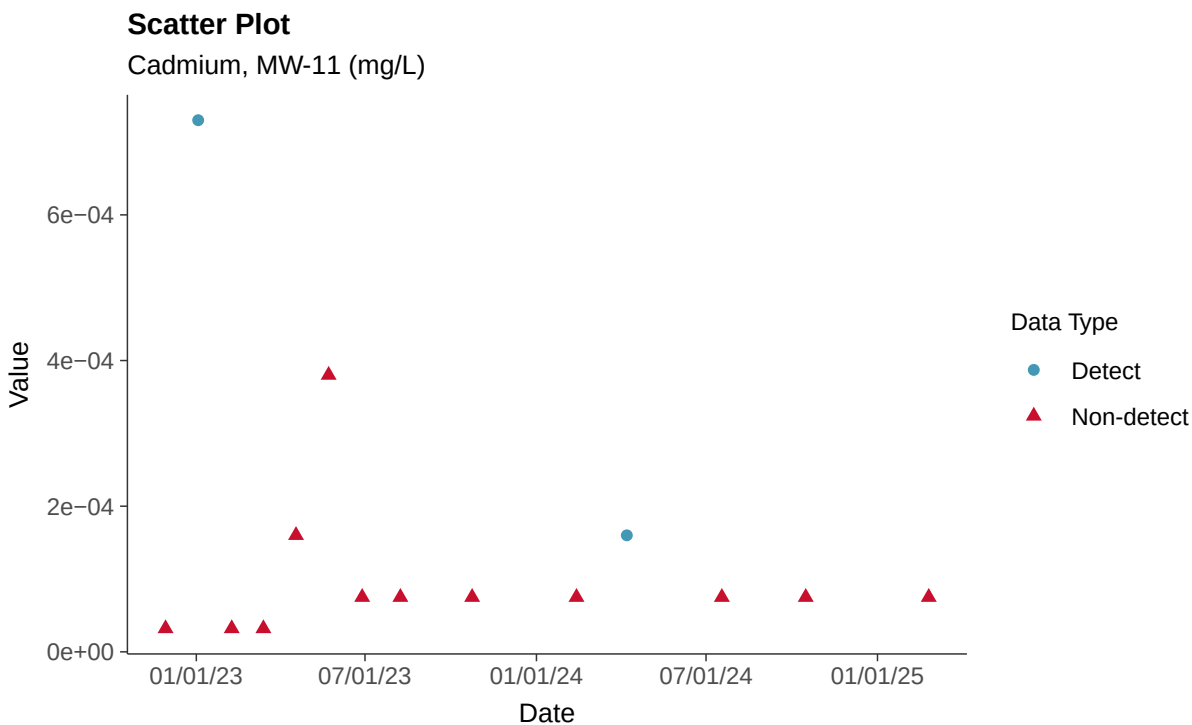
Beryllium, MW-11 (mg/L)

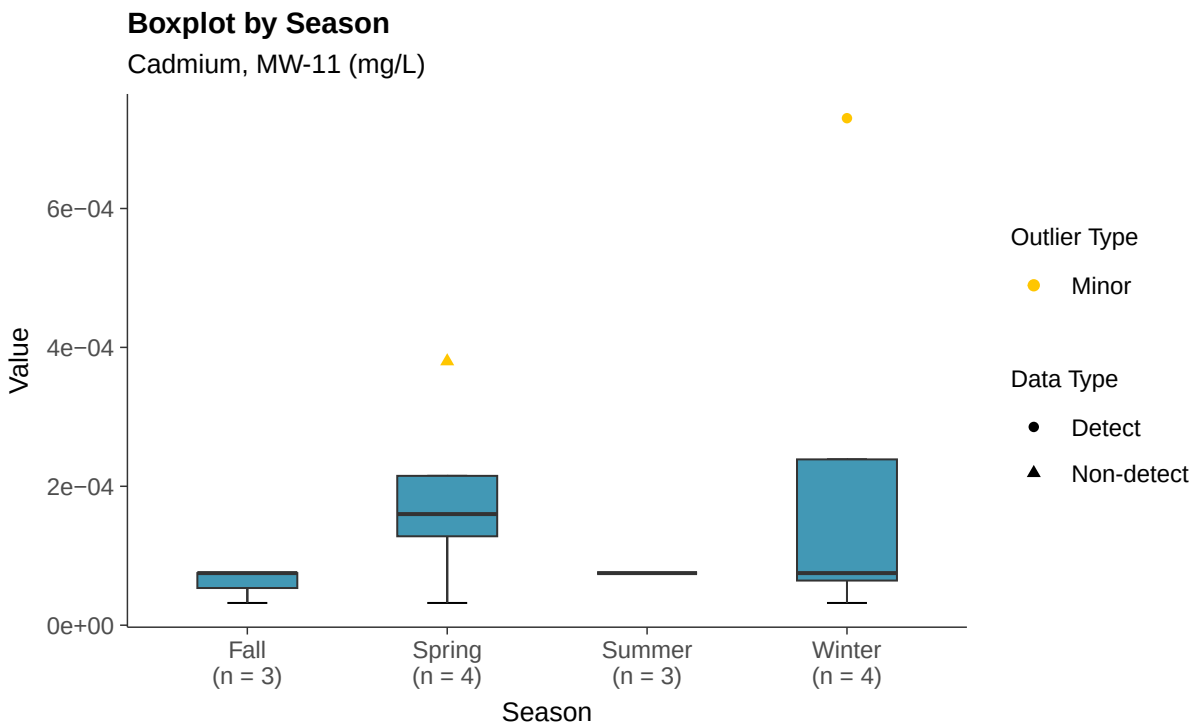
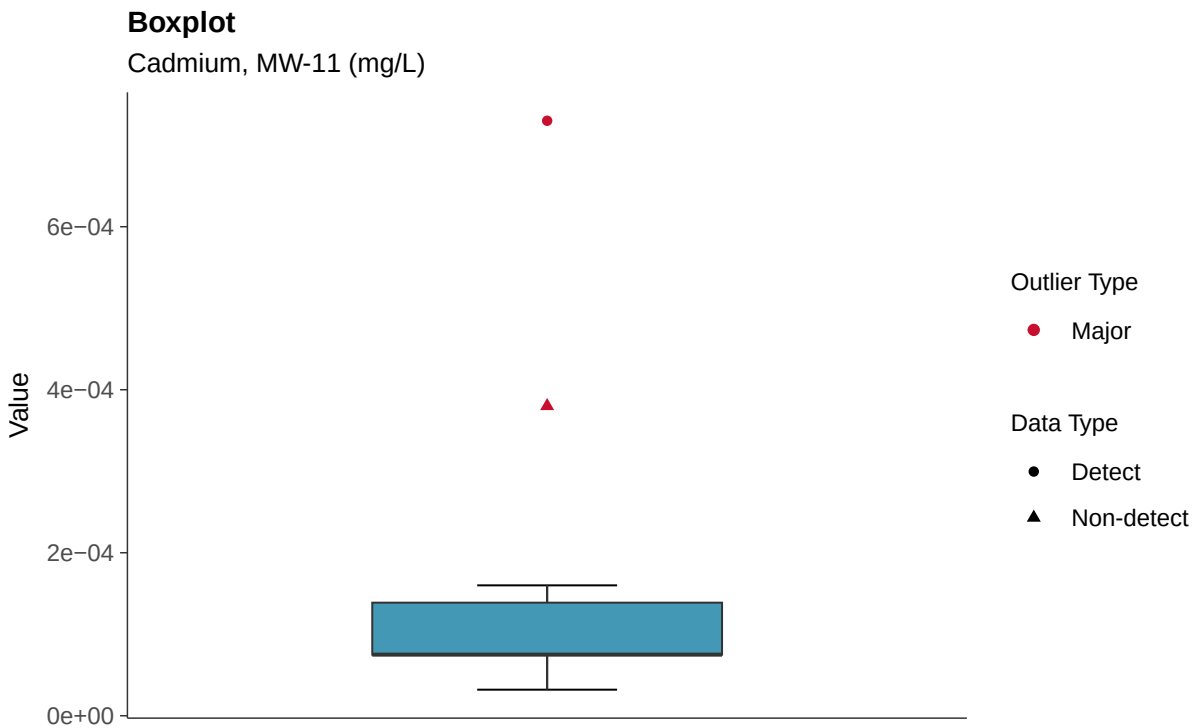


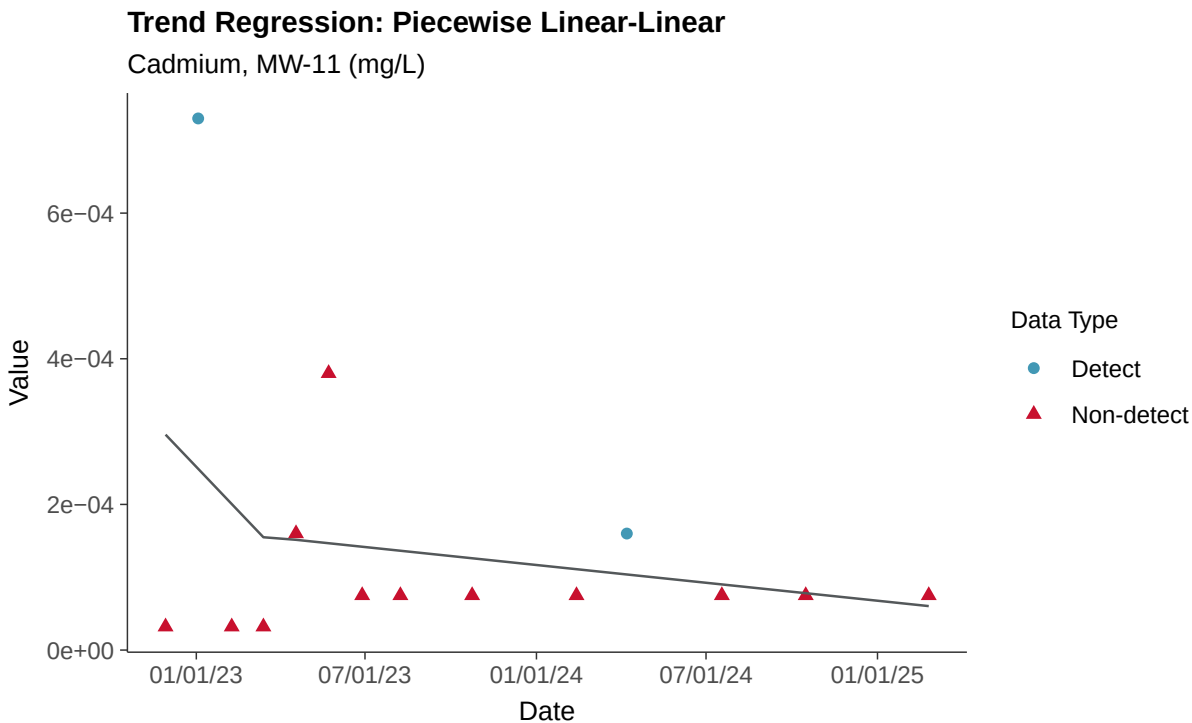
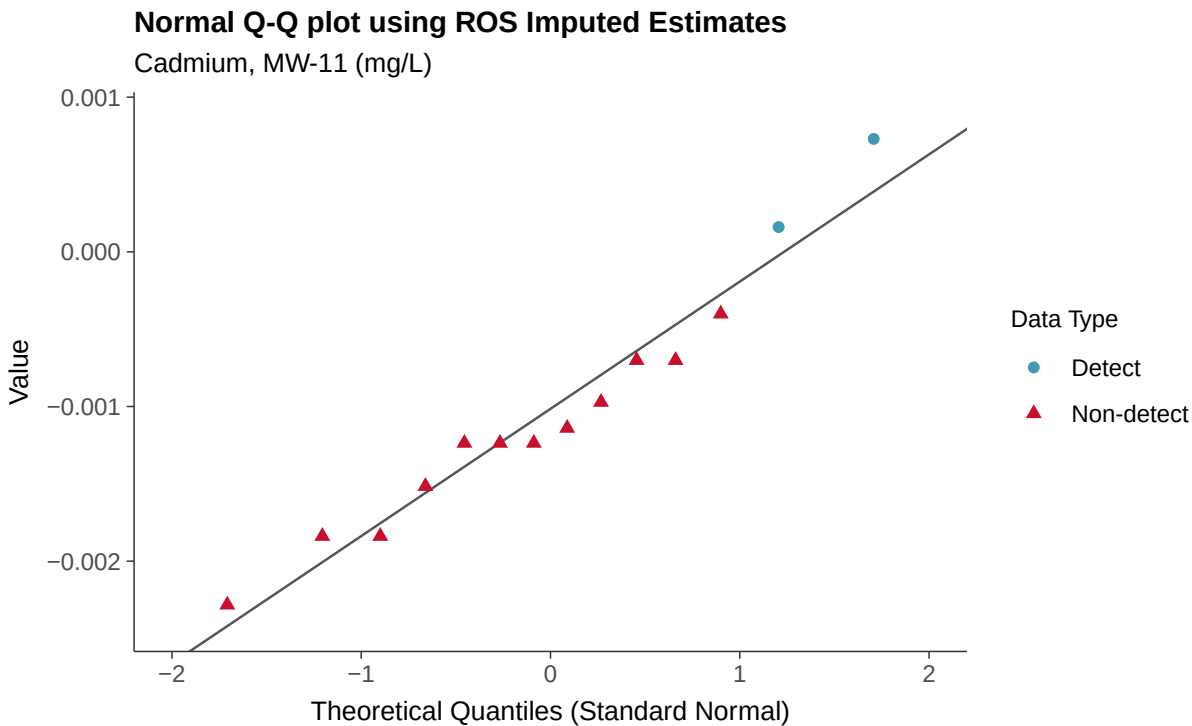


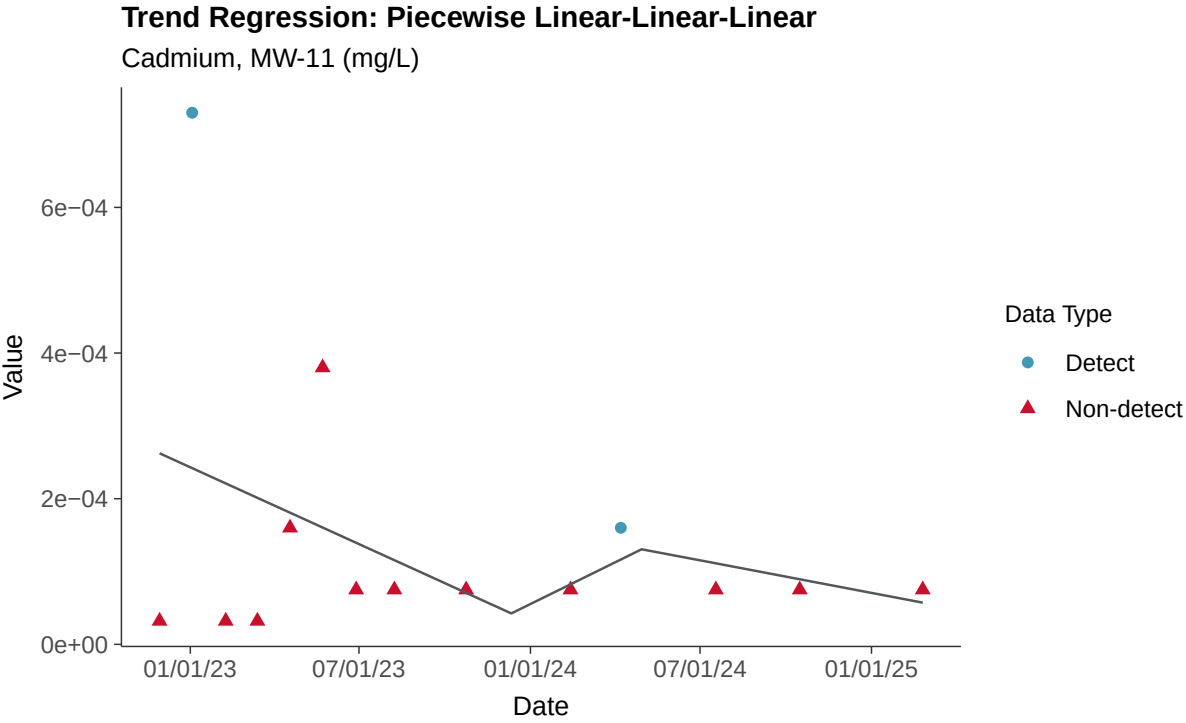
Appendix IV: Cadmium, MW-11

ID: 21_2_4_106





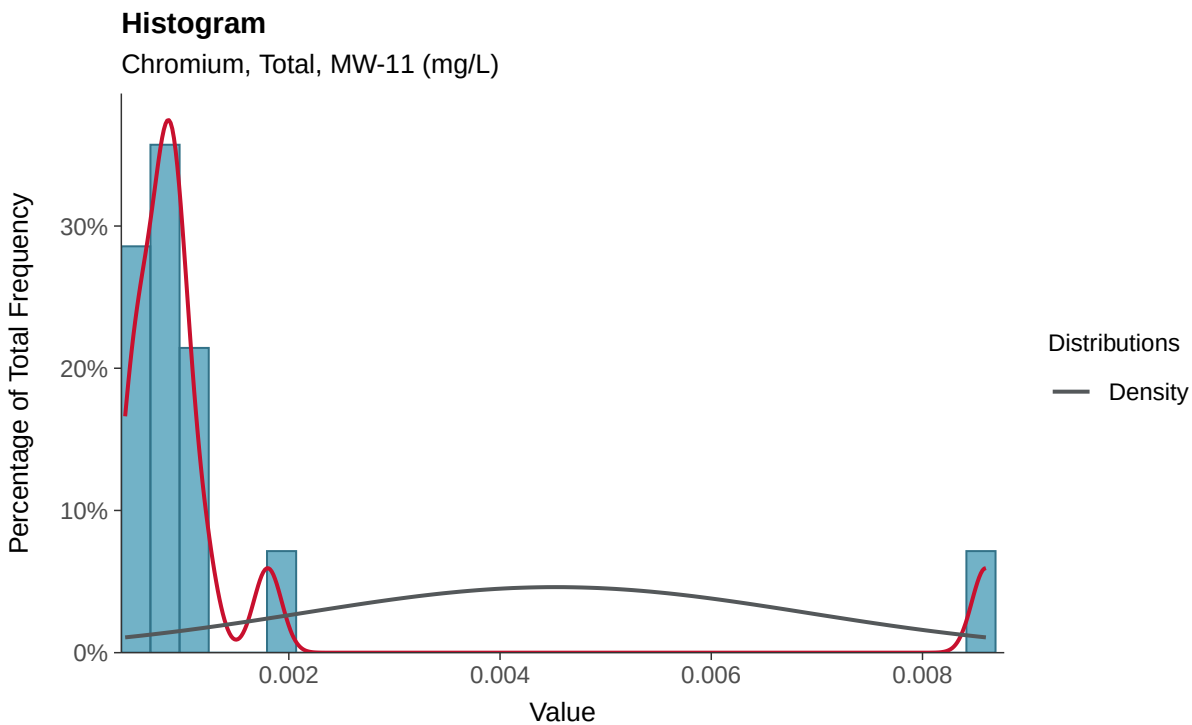
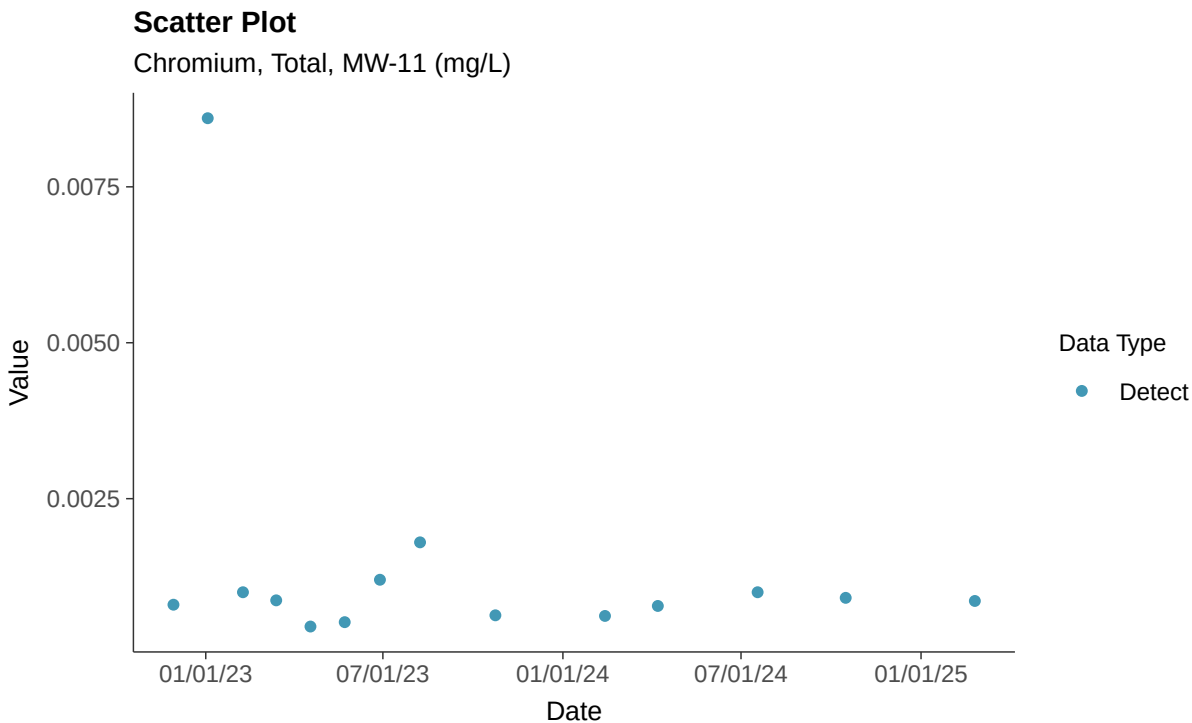


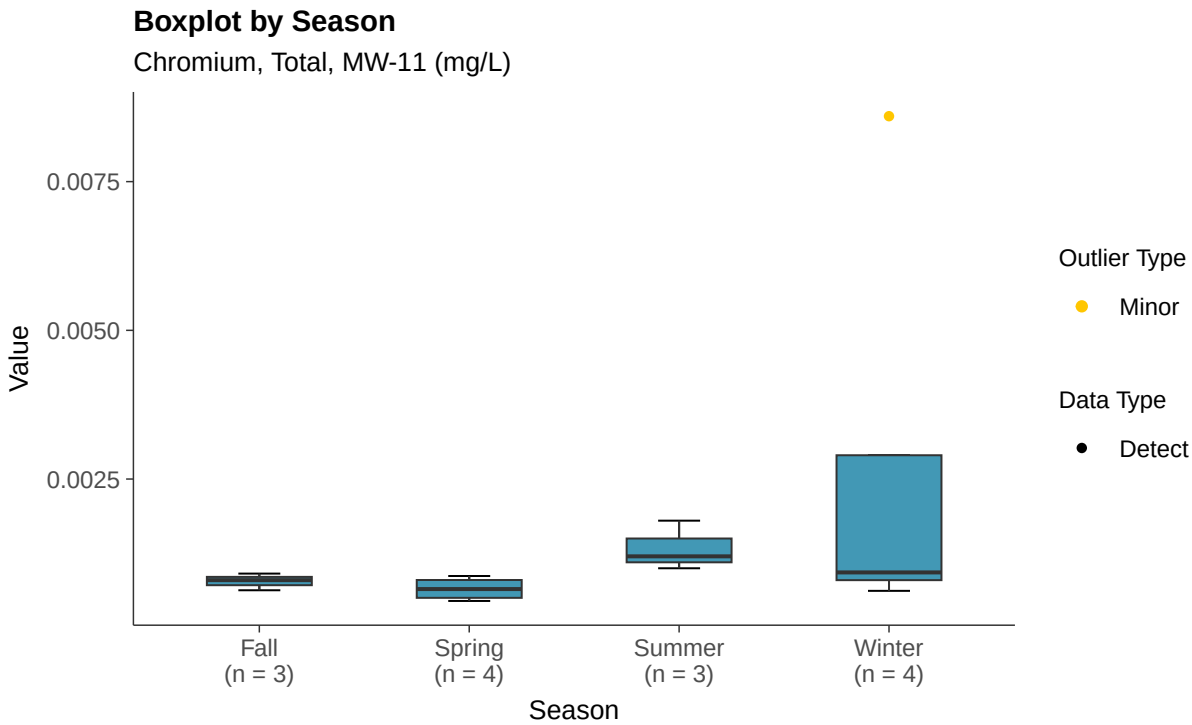
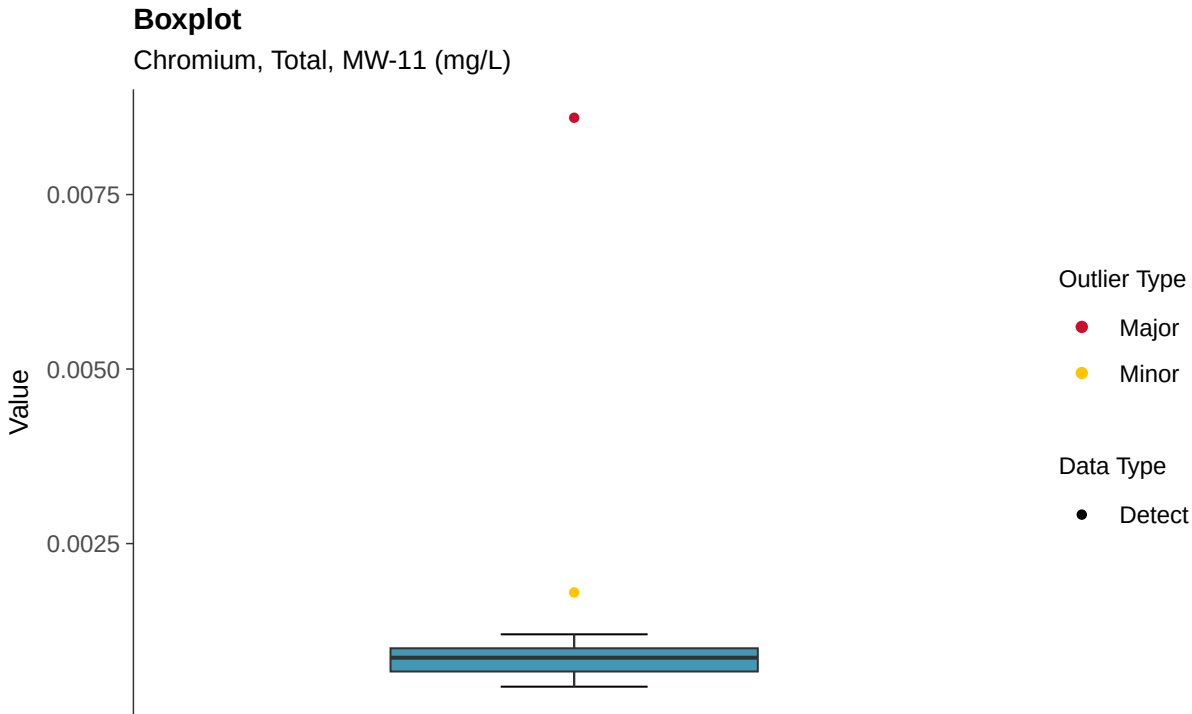


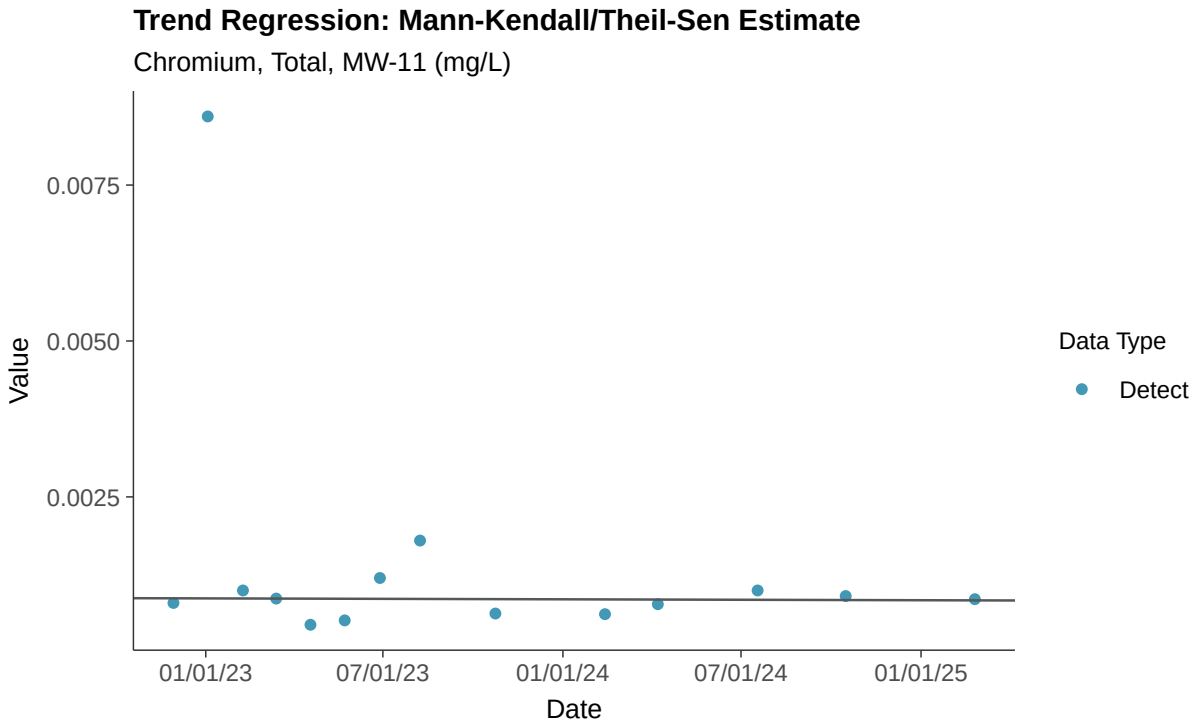
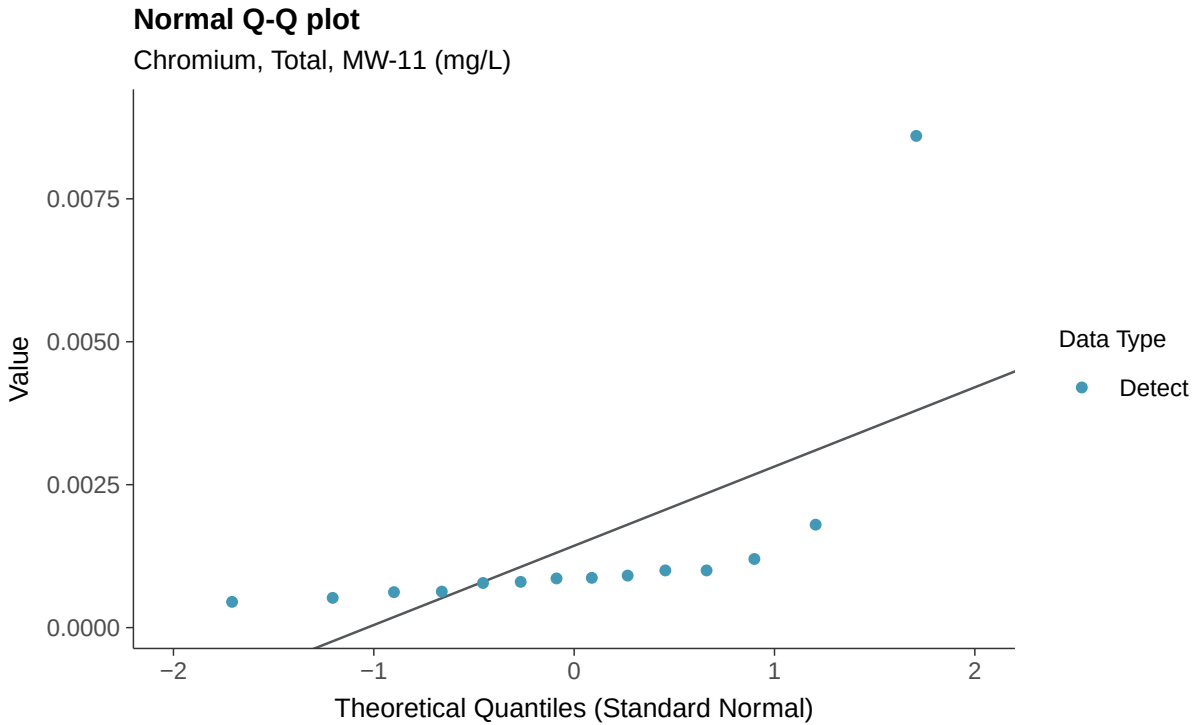


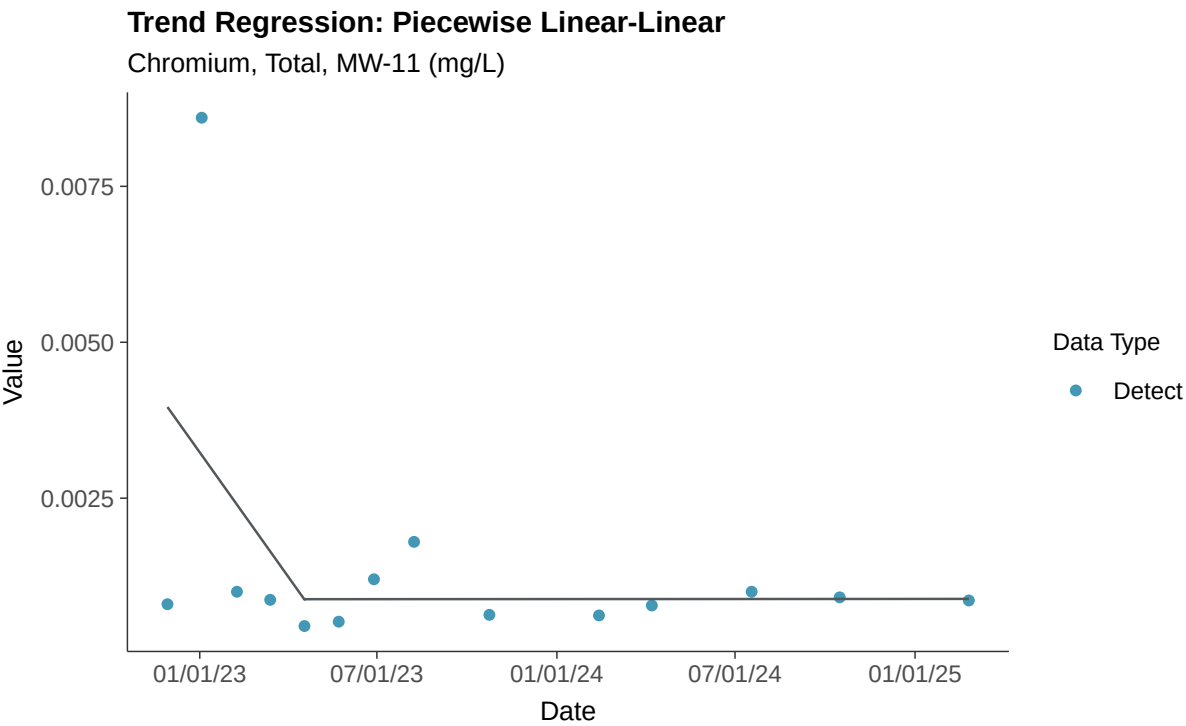
Appendix IV: Chromium, Total, MW-11

ID: 21_2_4_109





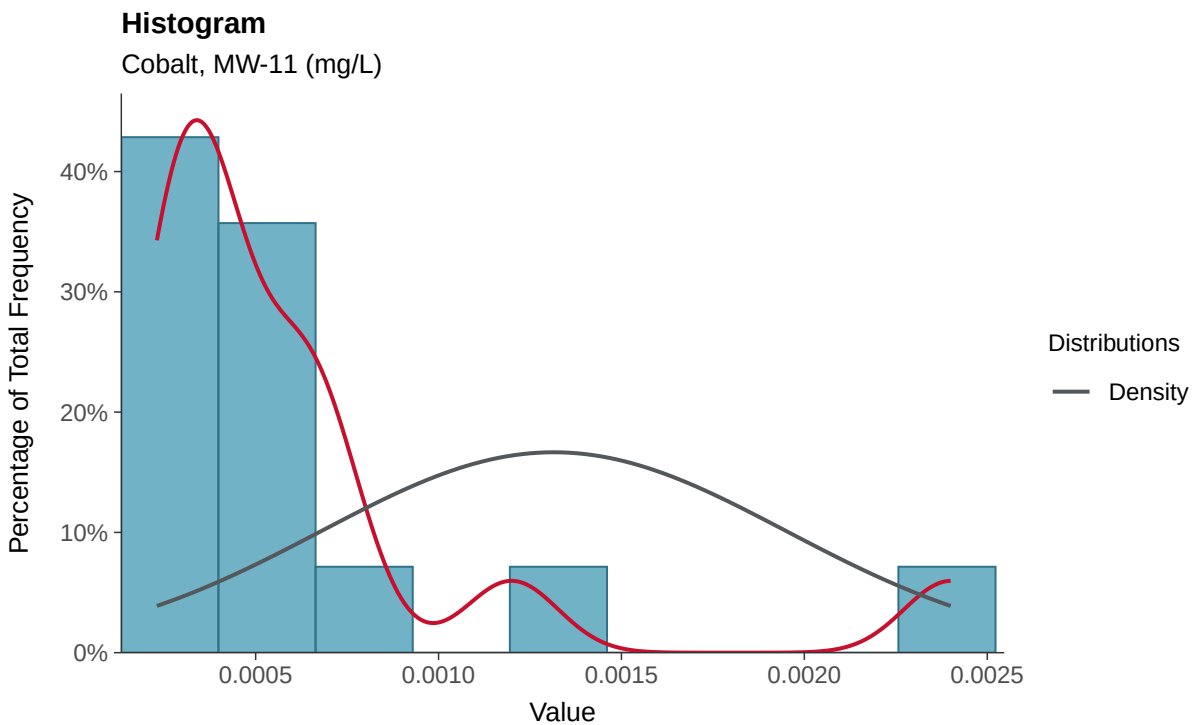
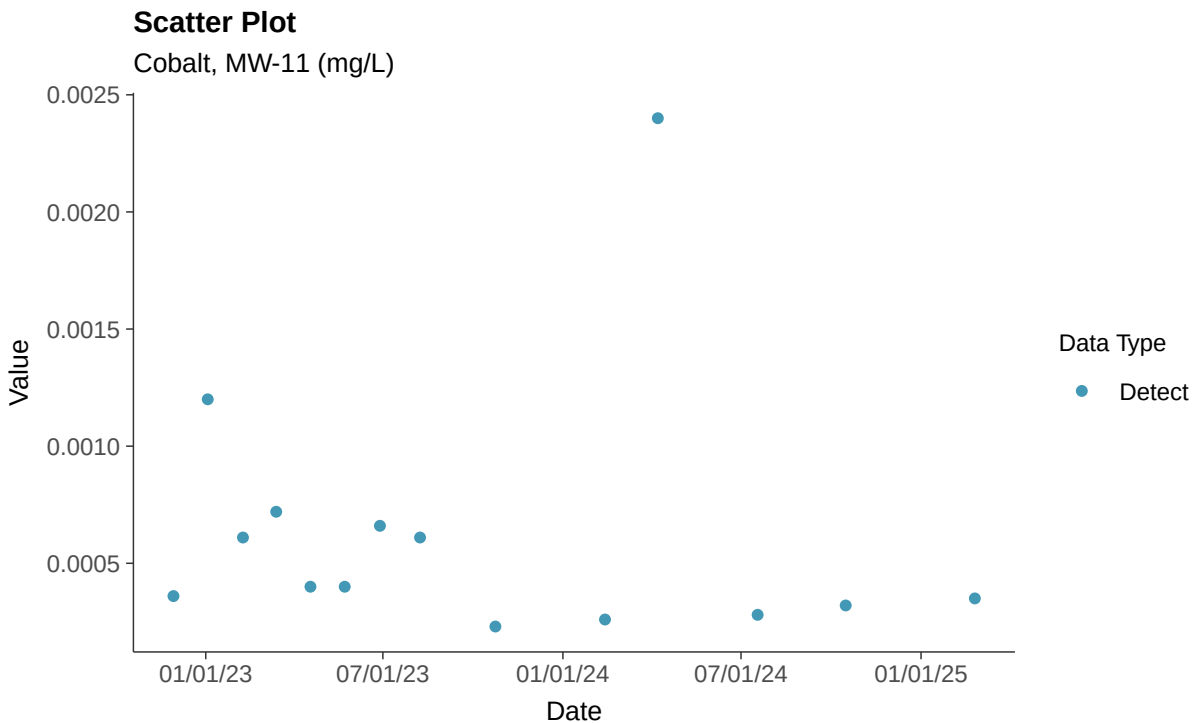


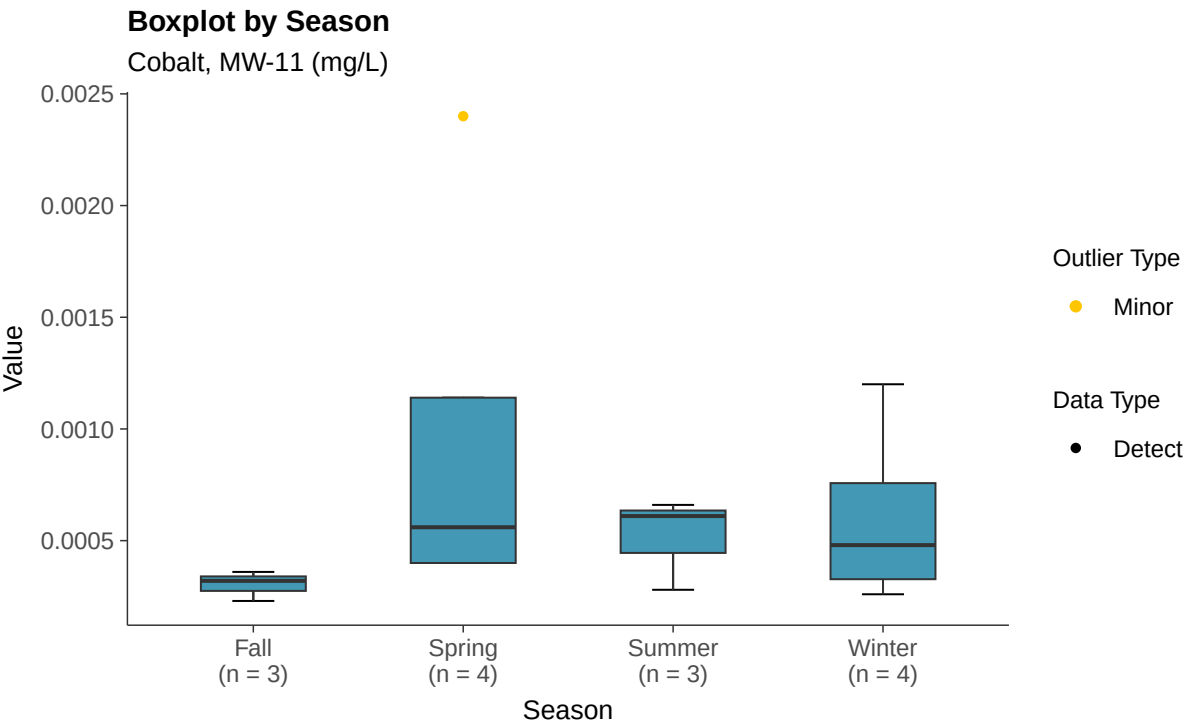
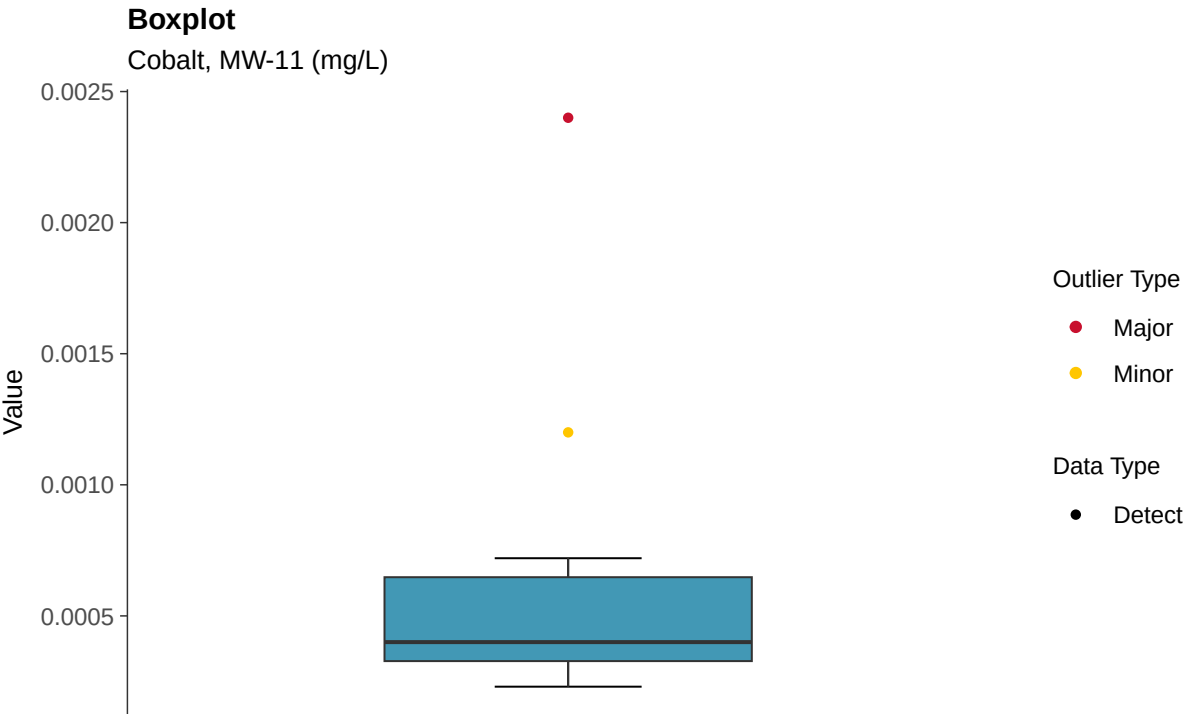


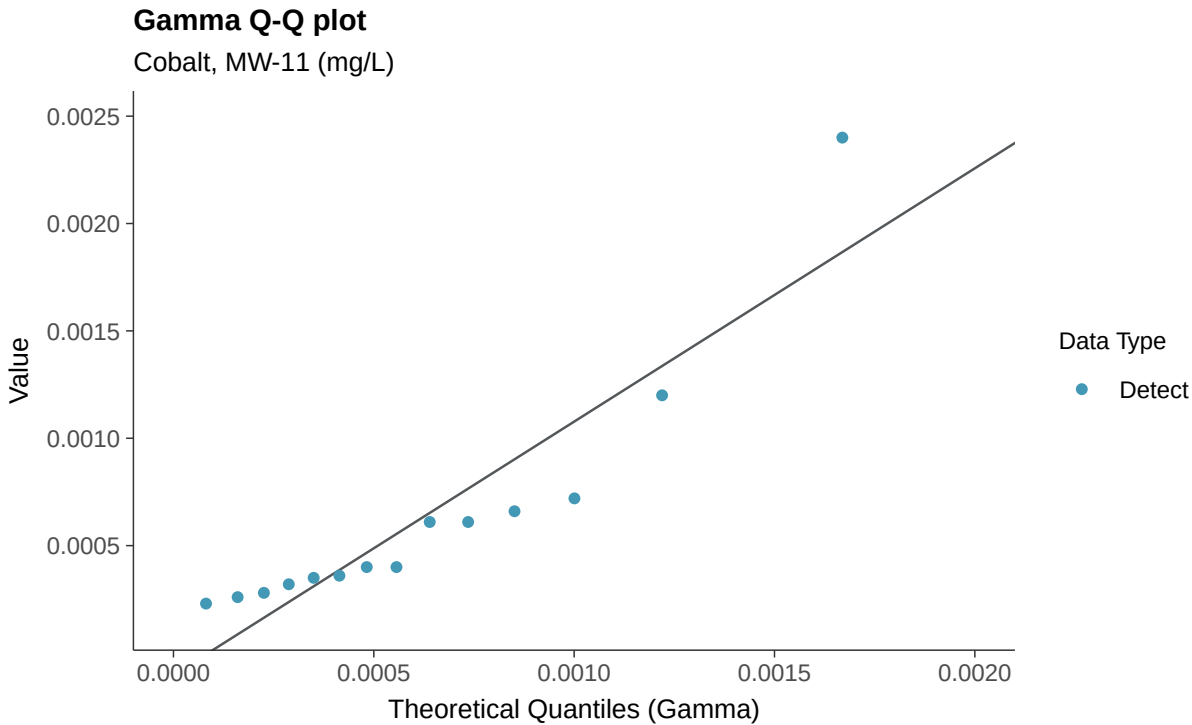
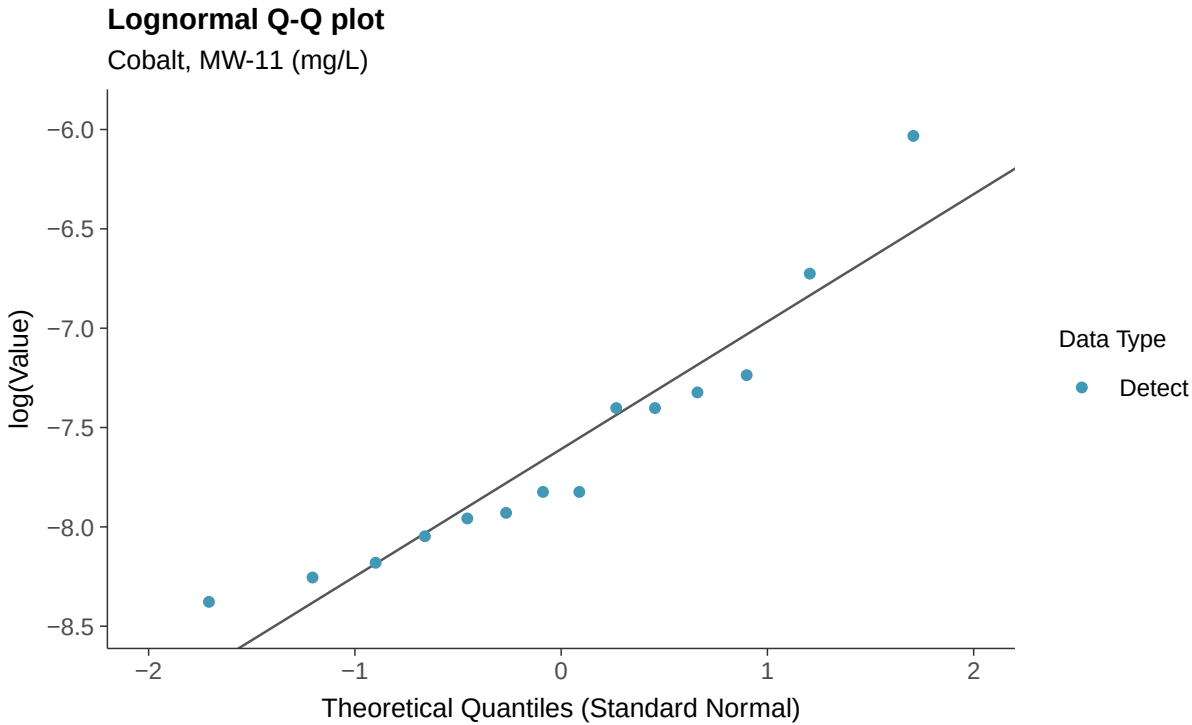


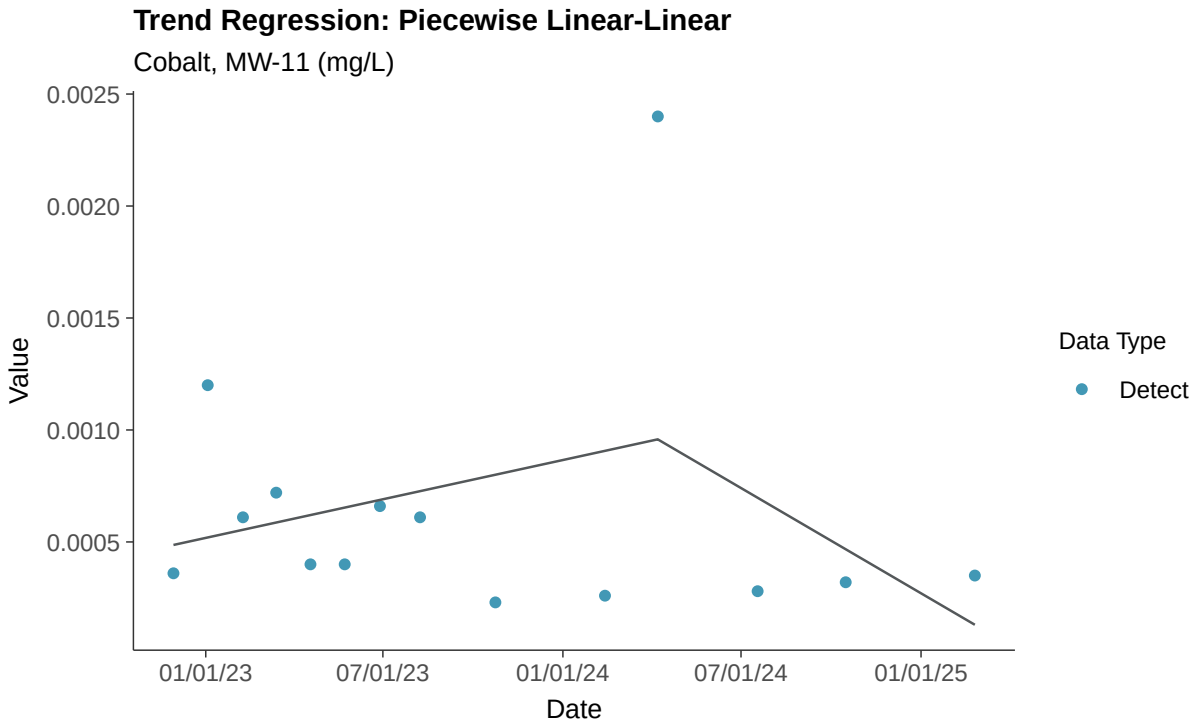
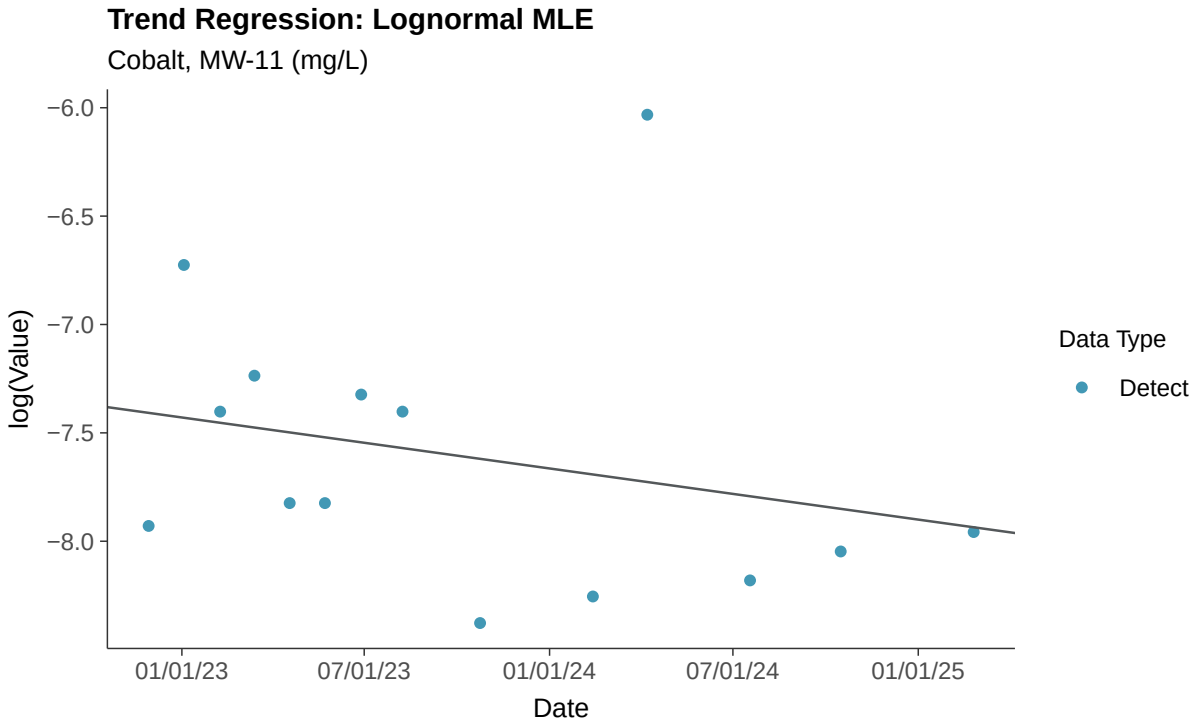
Appendix IV: Cobalt, MW-11

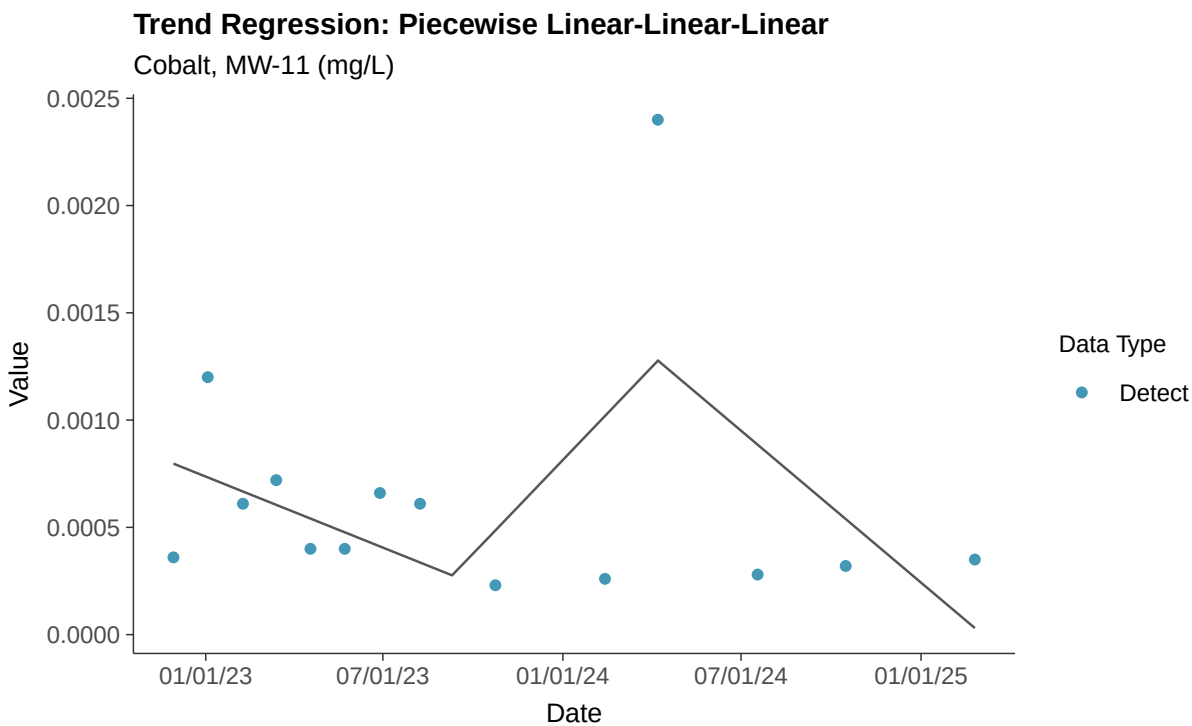
ID: 21_2_4_110







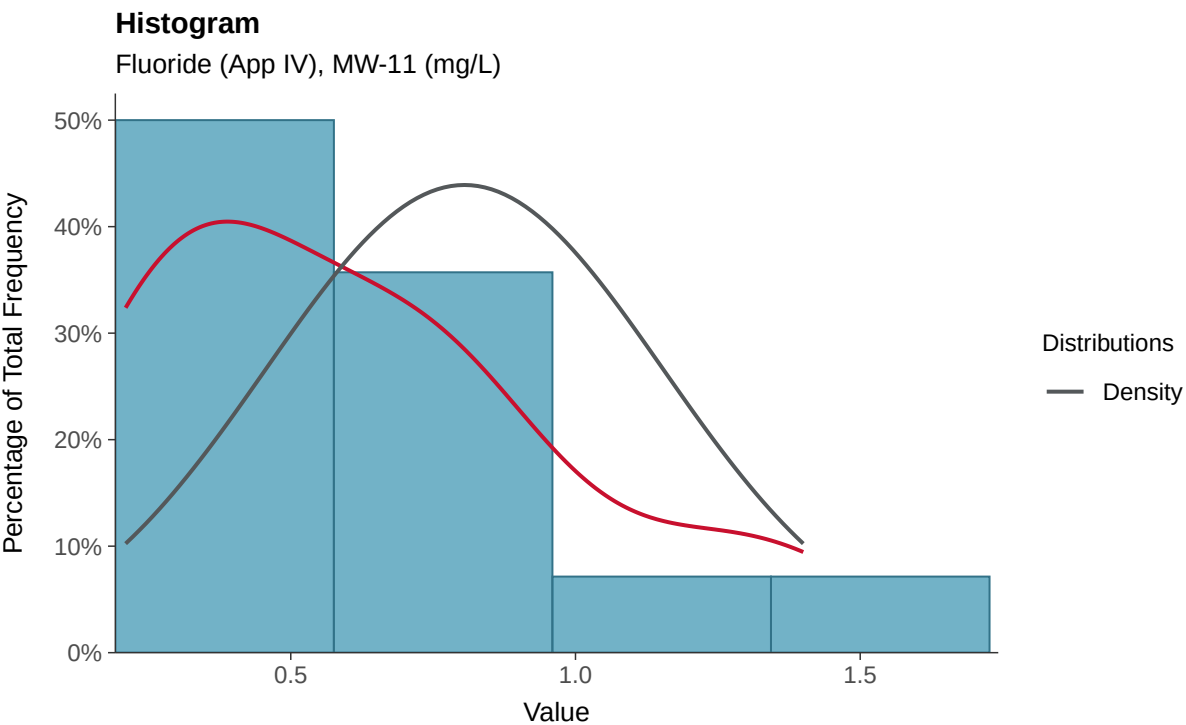
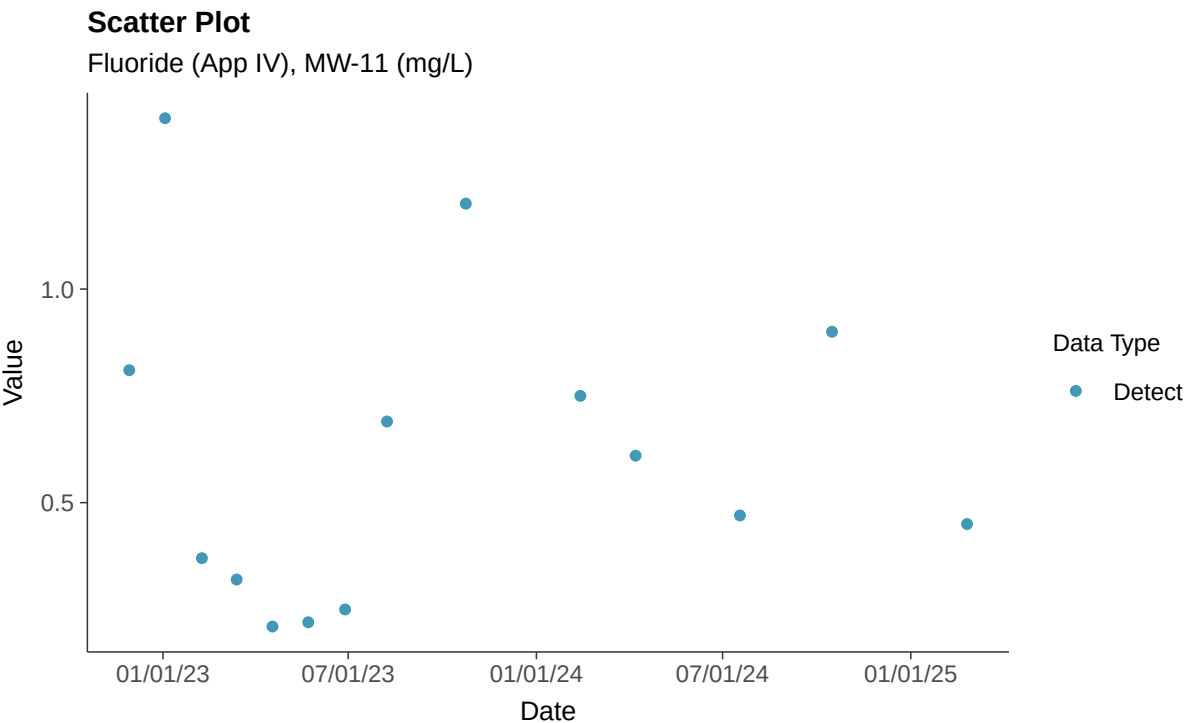






Appendix IV: Fluoride (App IV), MW-11

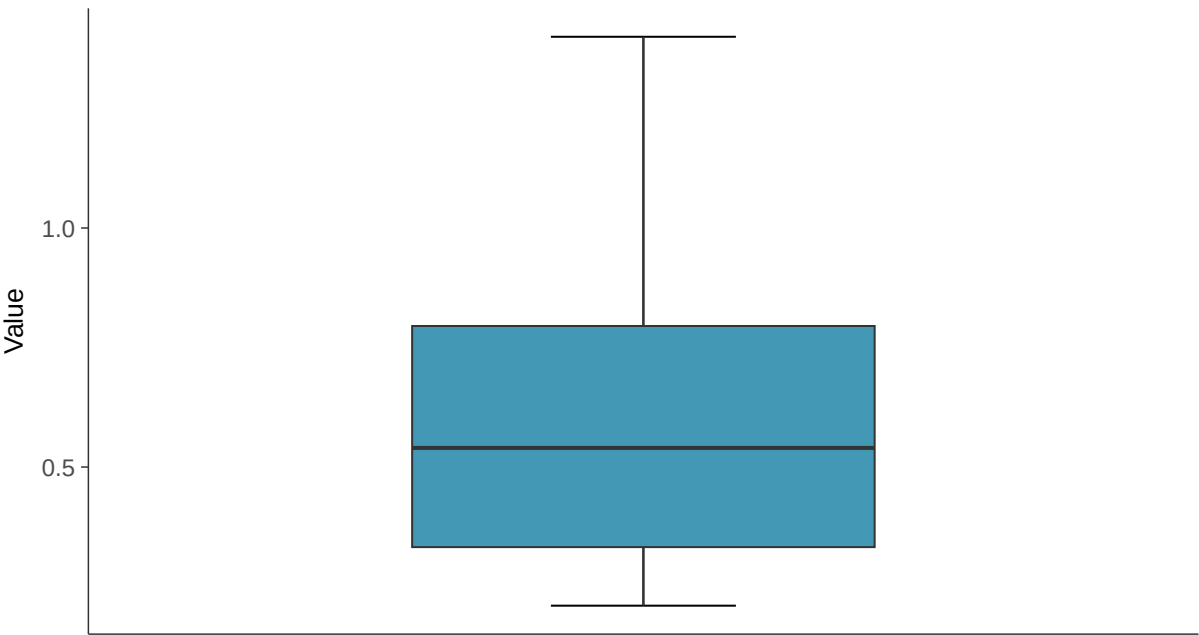
ID: 21_2_4_113





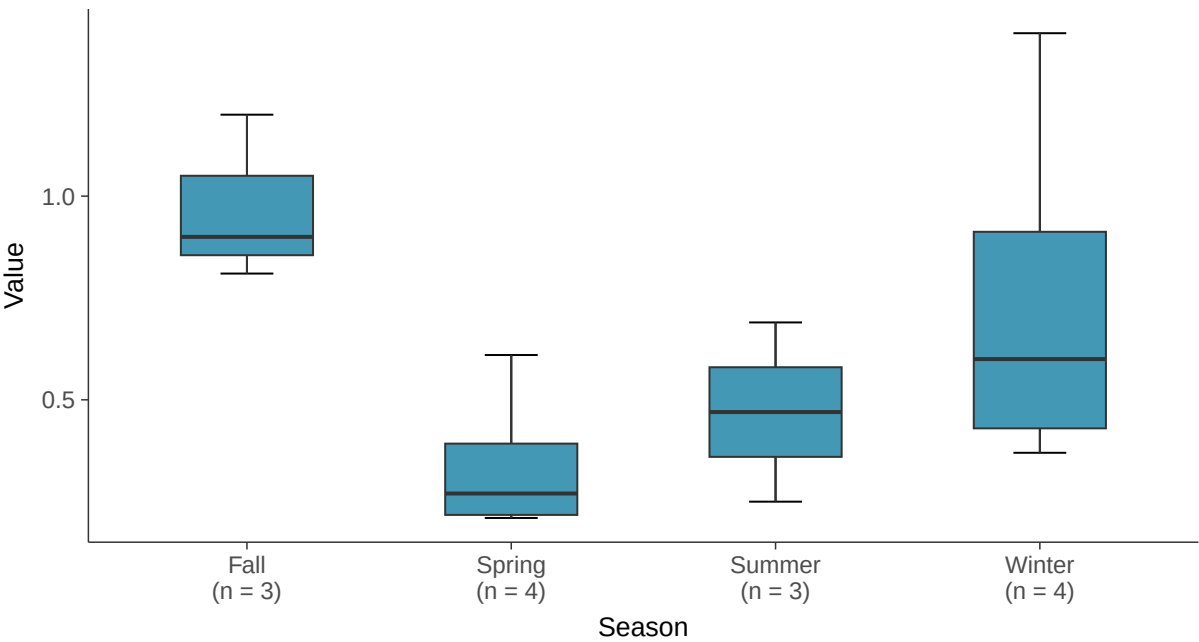
Boxplot

Fluoride (App IV), MW-11 (mg/L)



Boxplot by Season

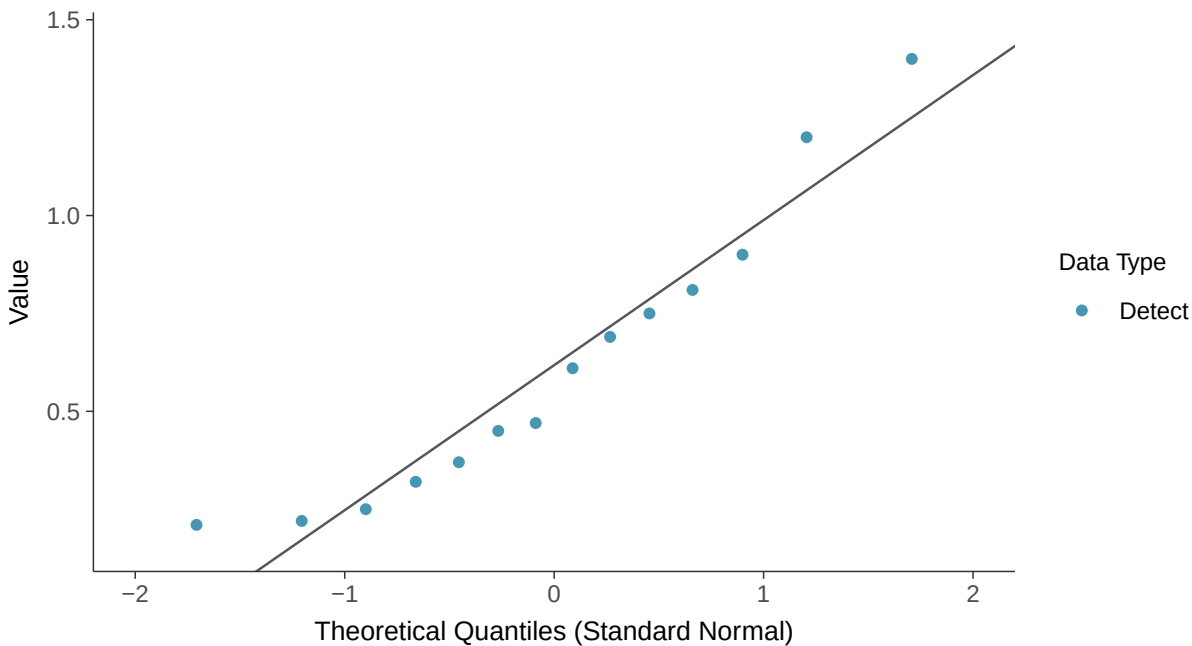
Fluoride (App IV), MW-11 (mg/L)





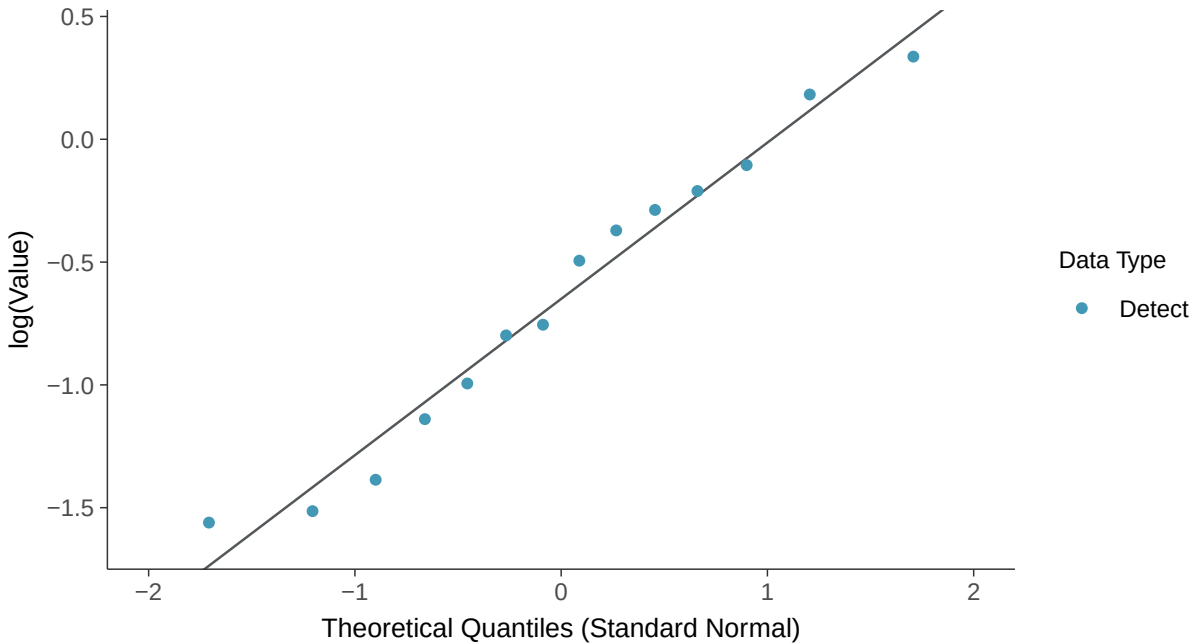
Normal Q-Q plot

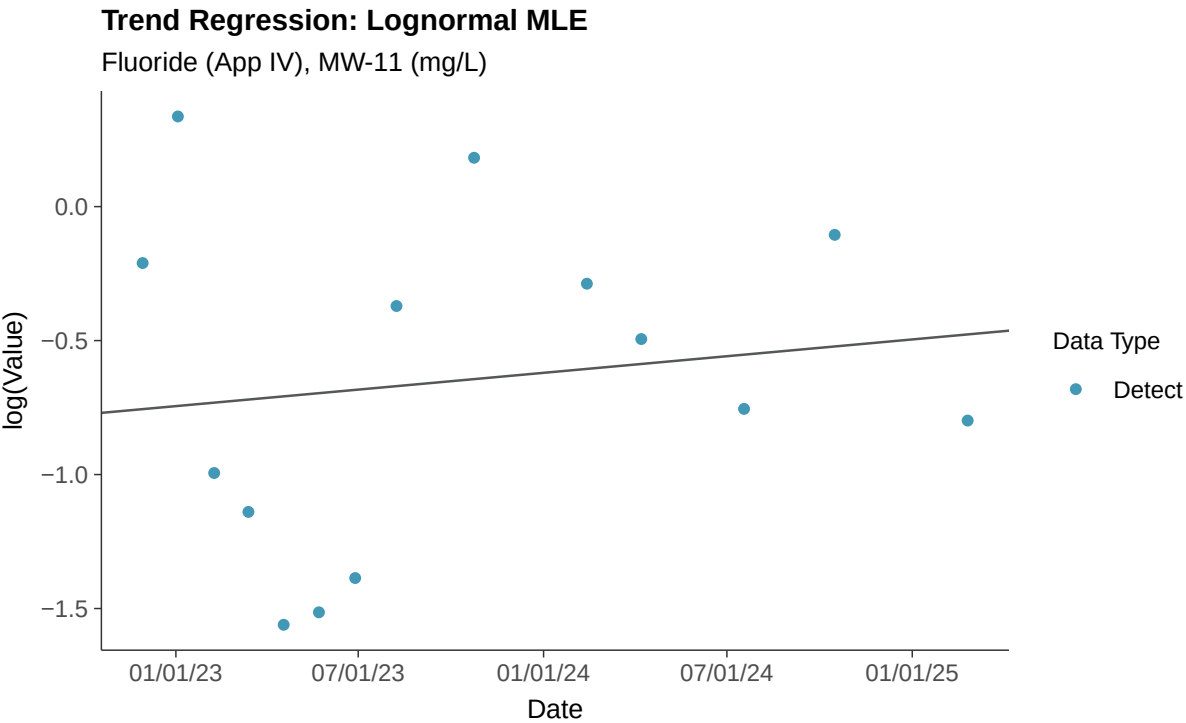
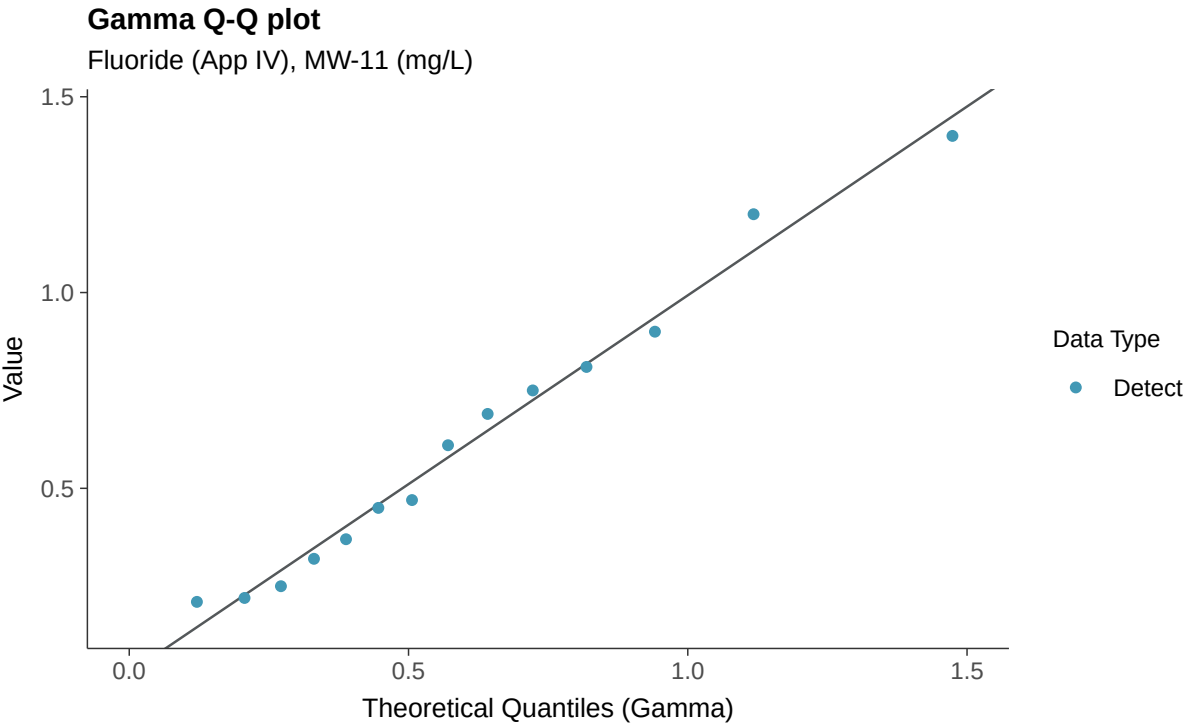
Fluoride (App IV), MW-11 (mg/L)

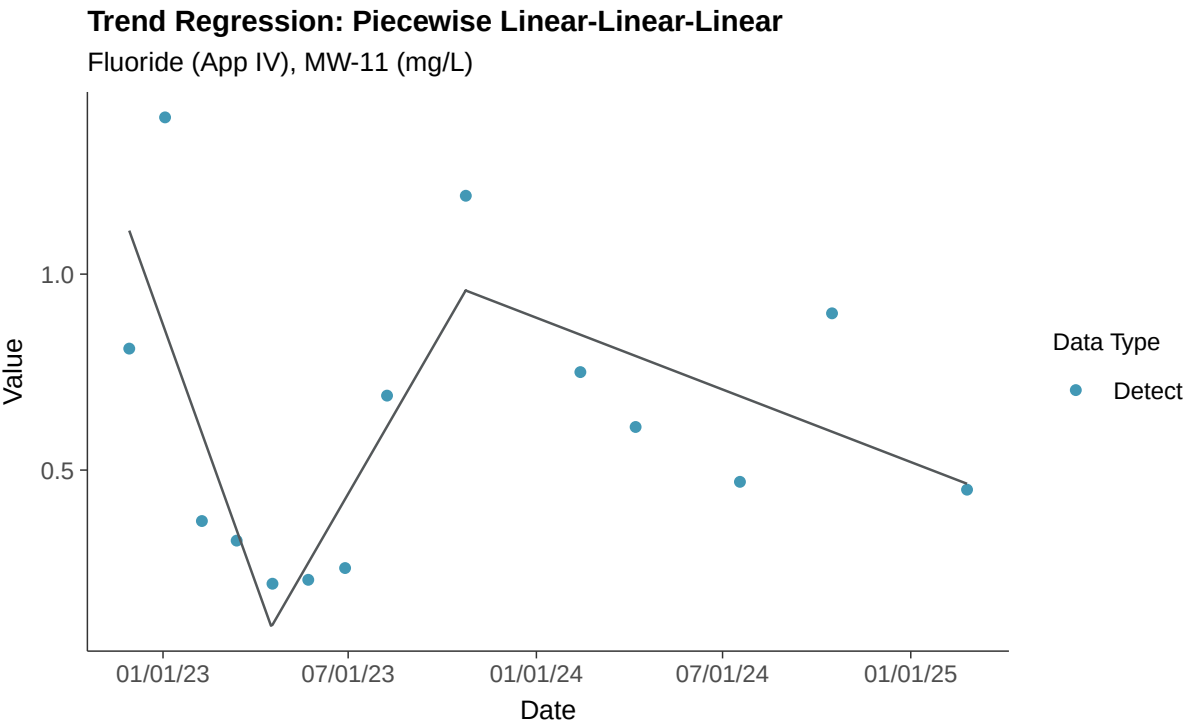
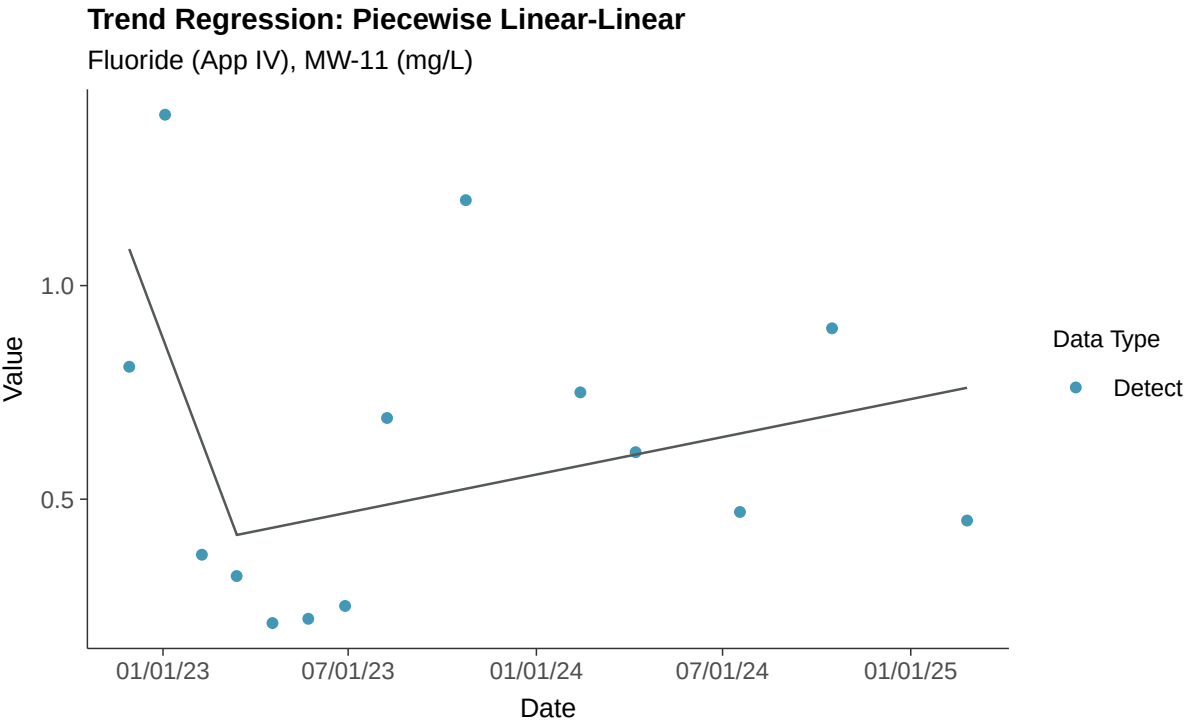


Lognormal Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



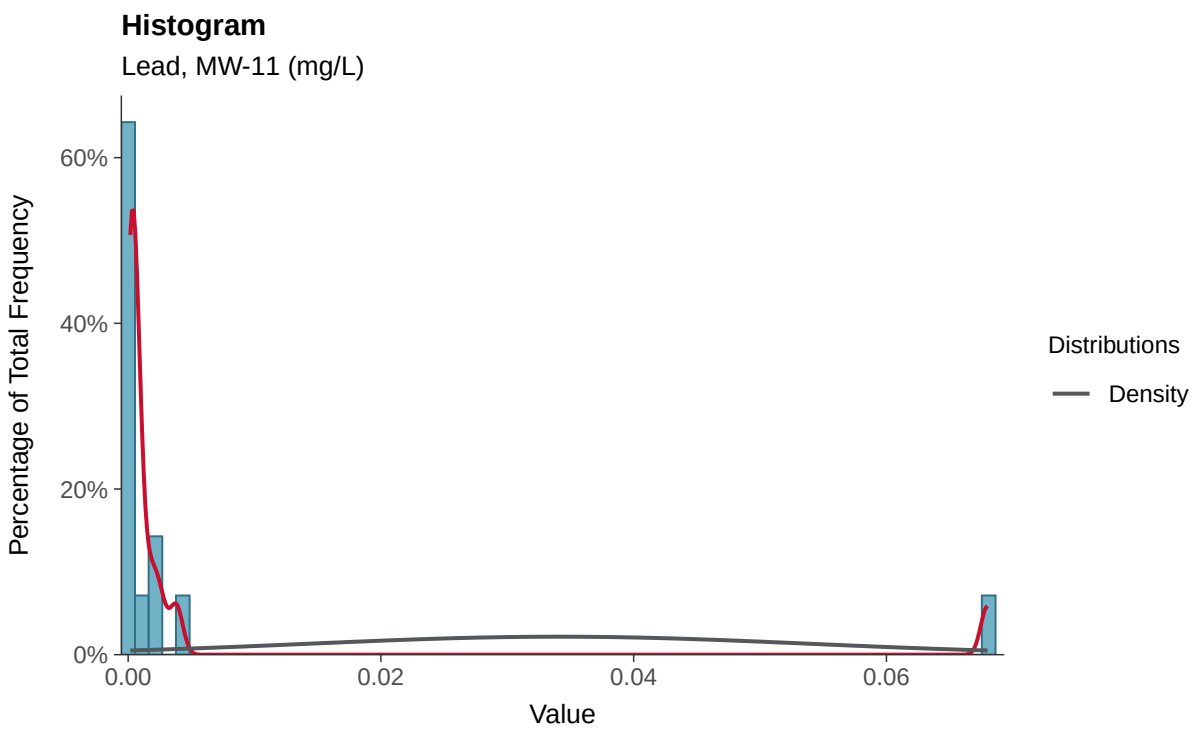
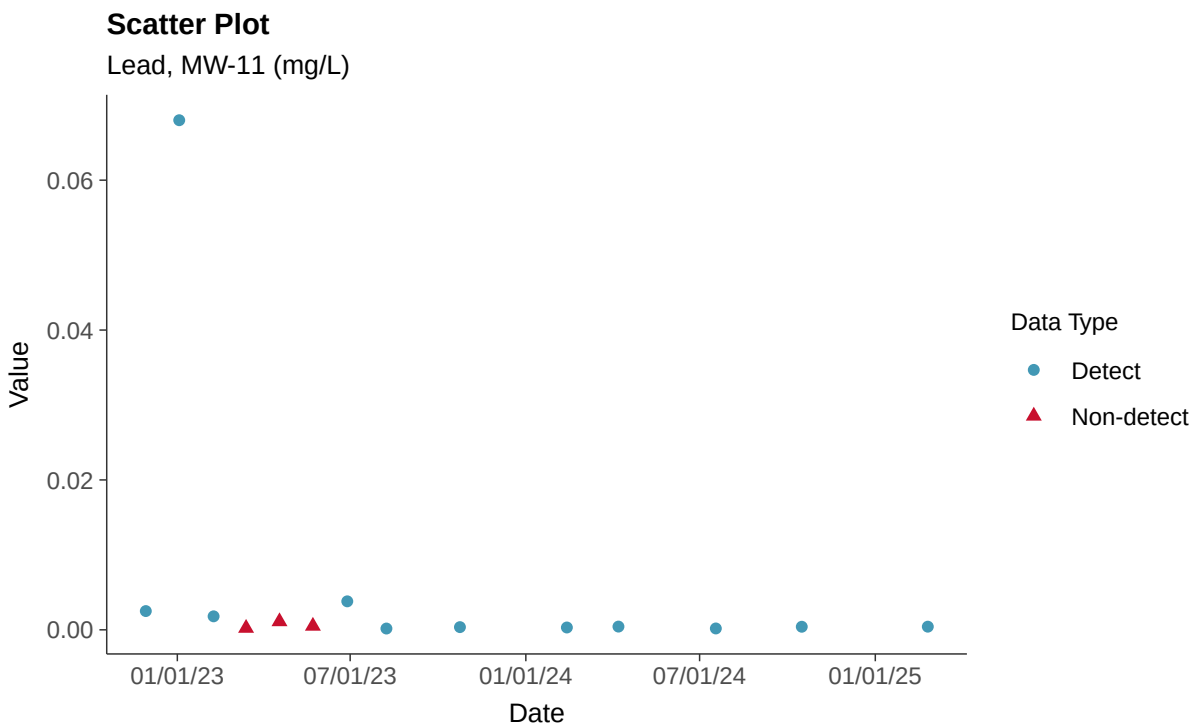


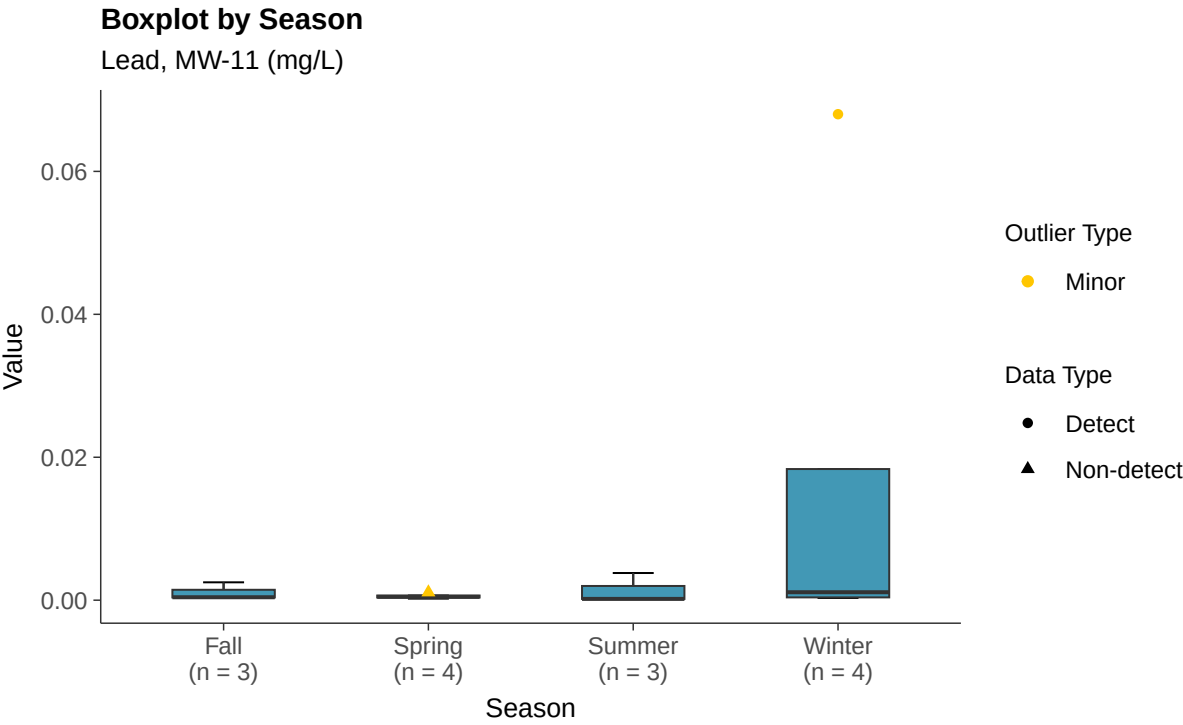
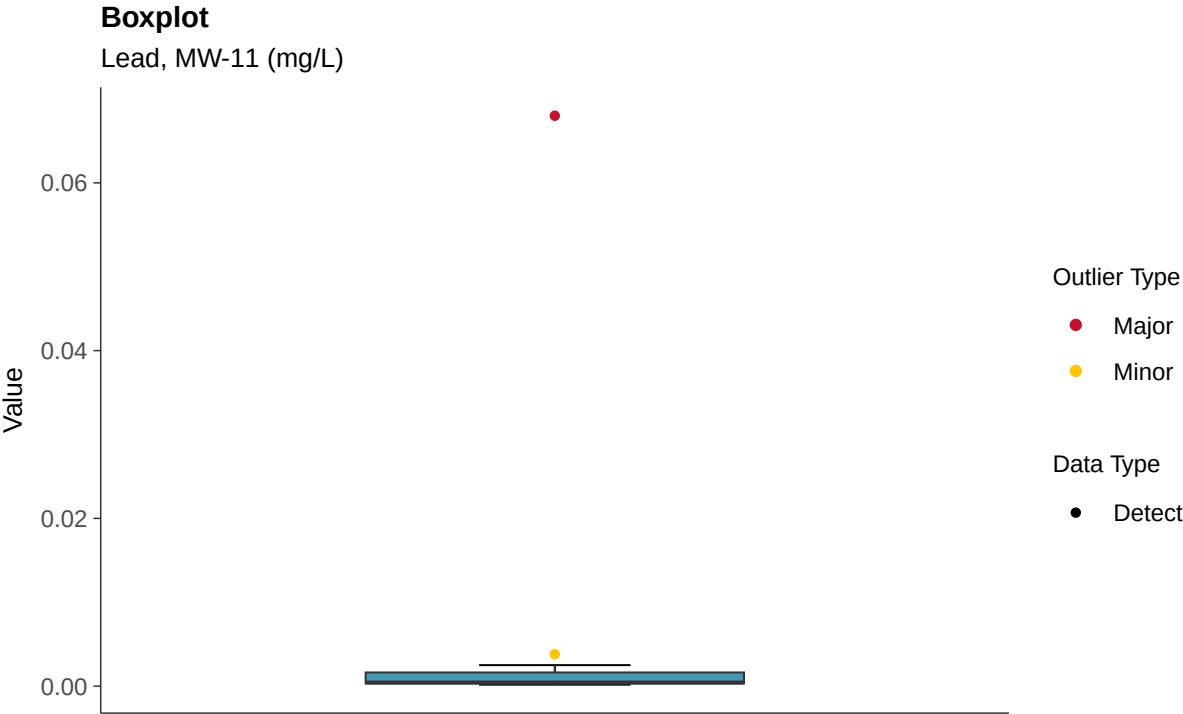


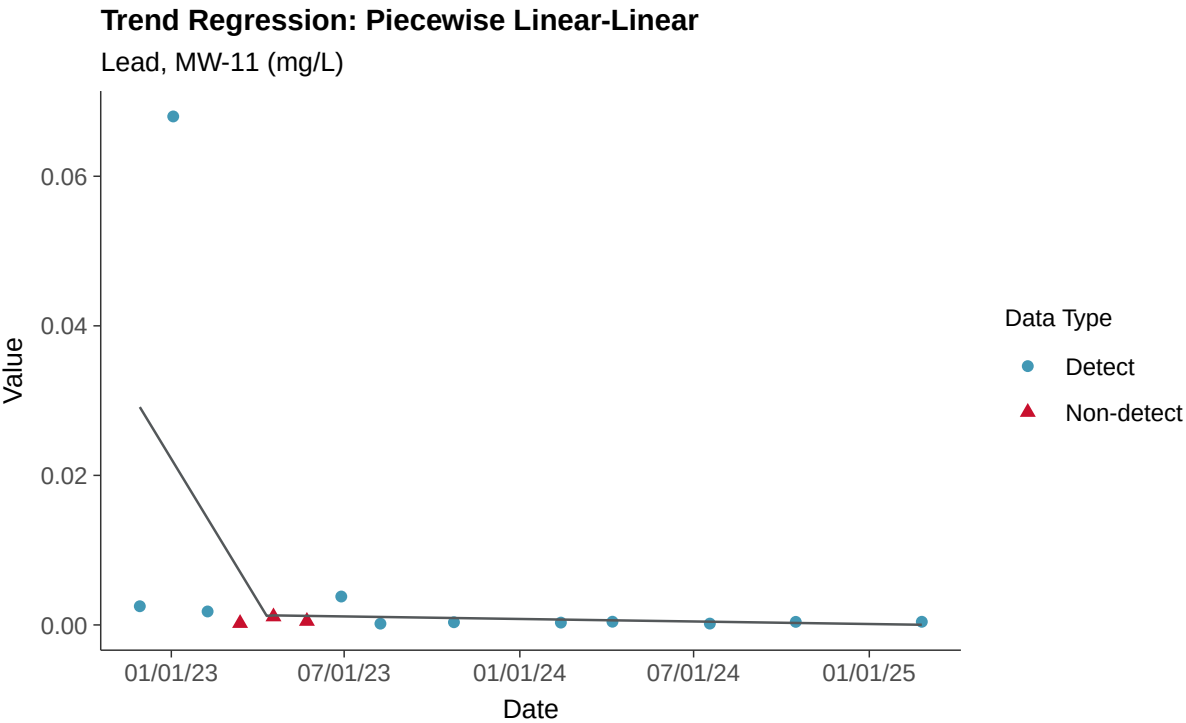
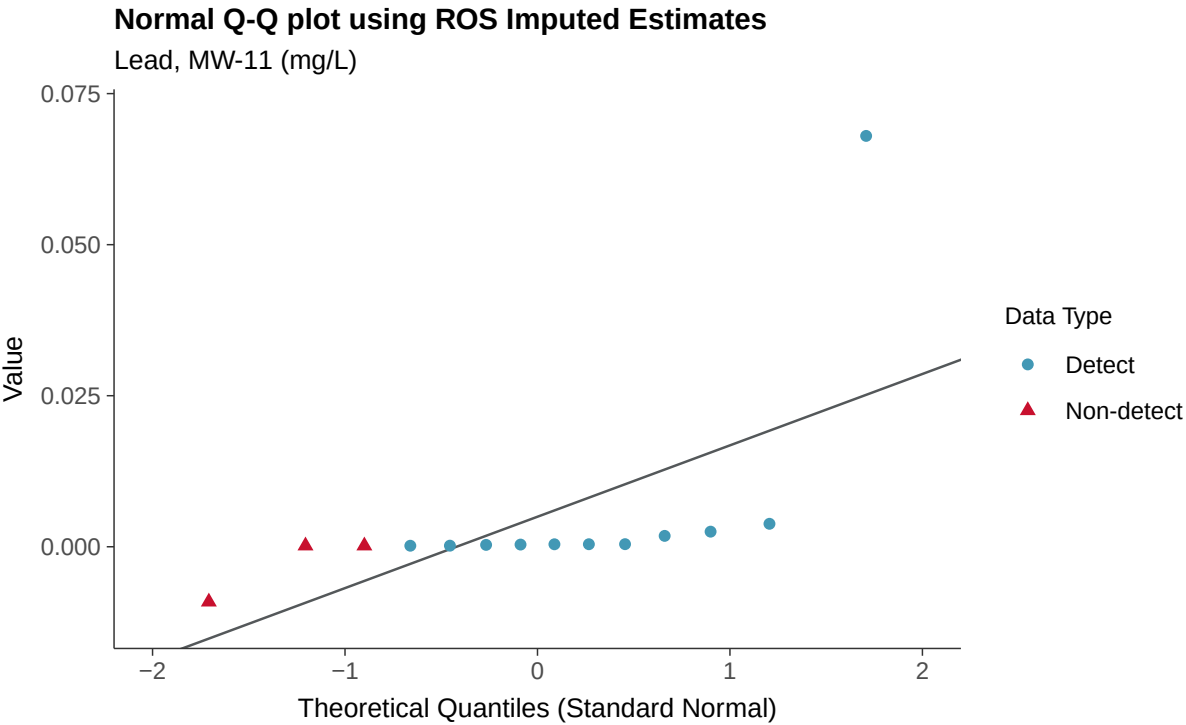


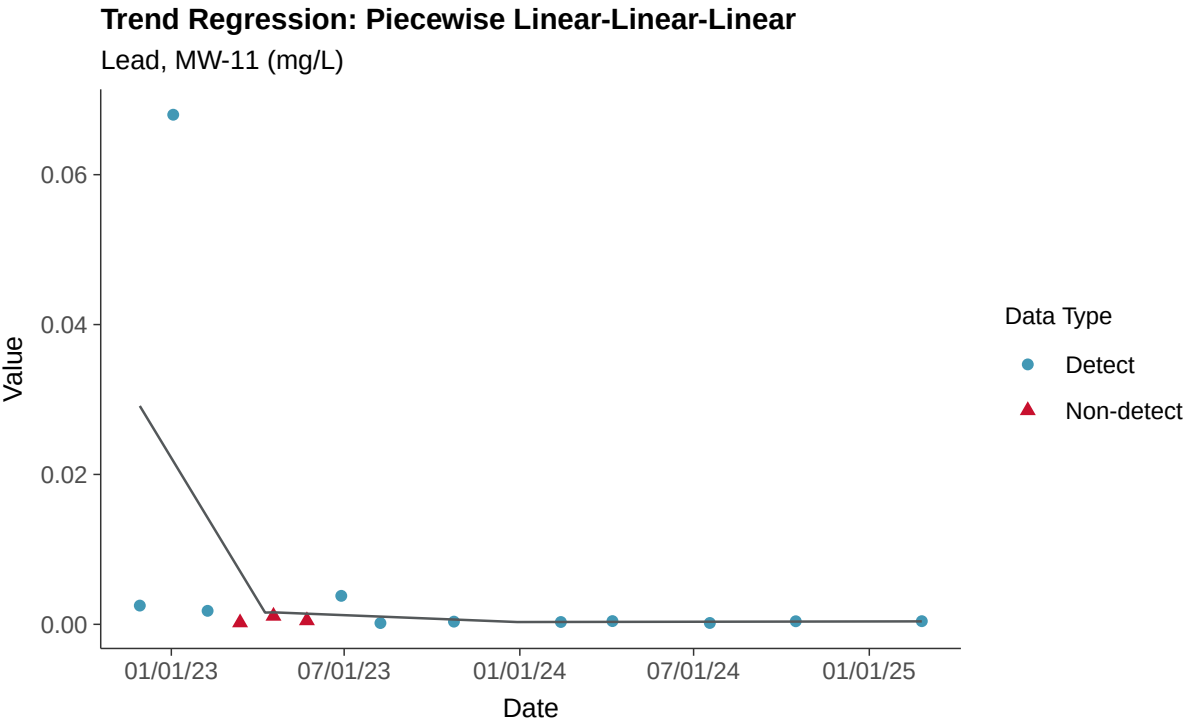
Appendix IV: Lead, MW-11

ID: 21_2_4_115





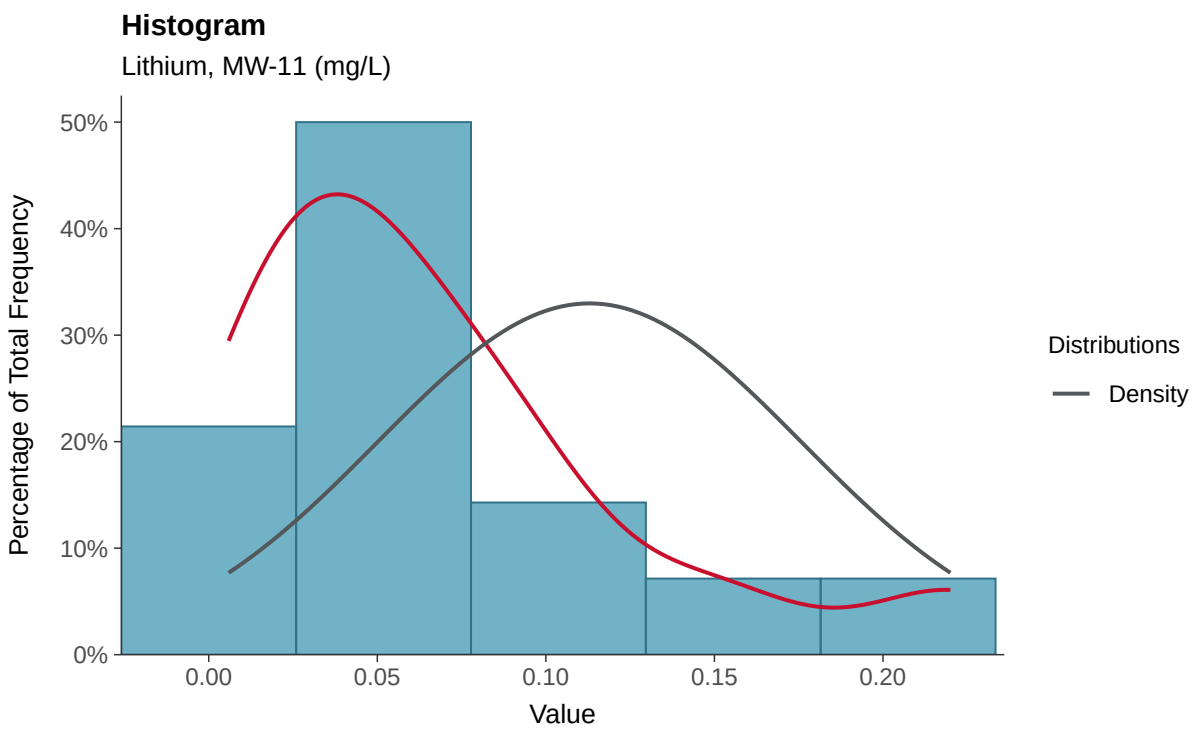
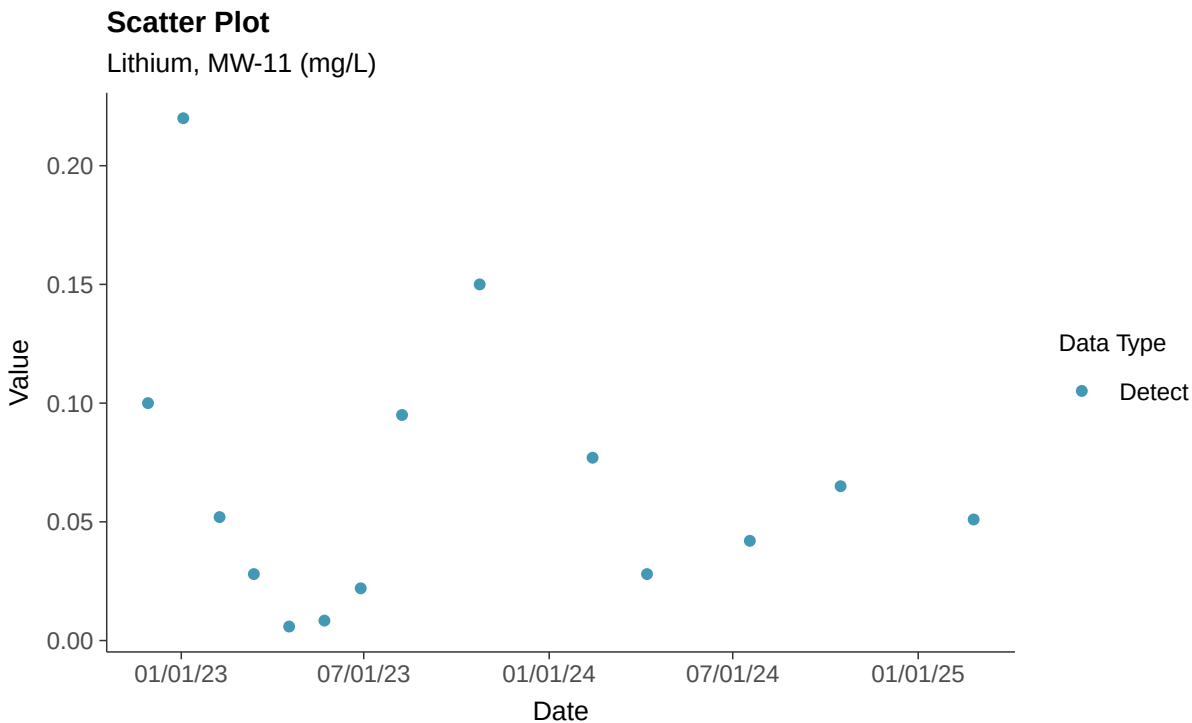


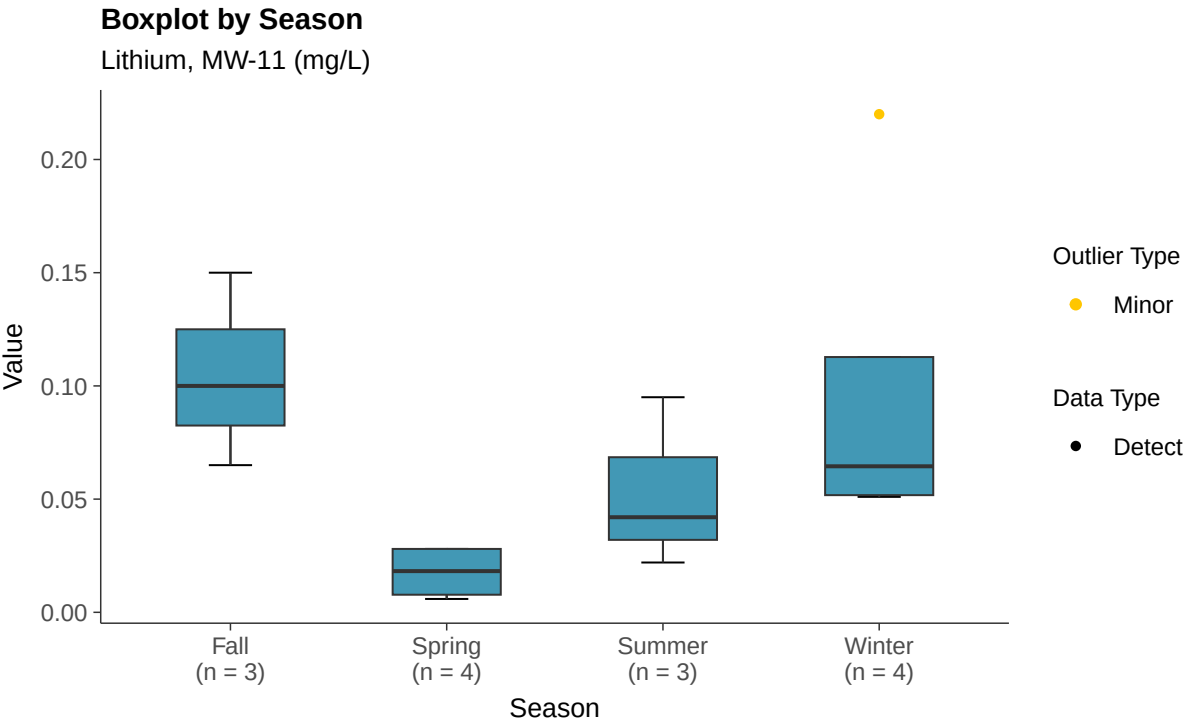
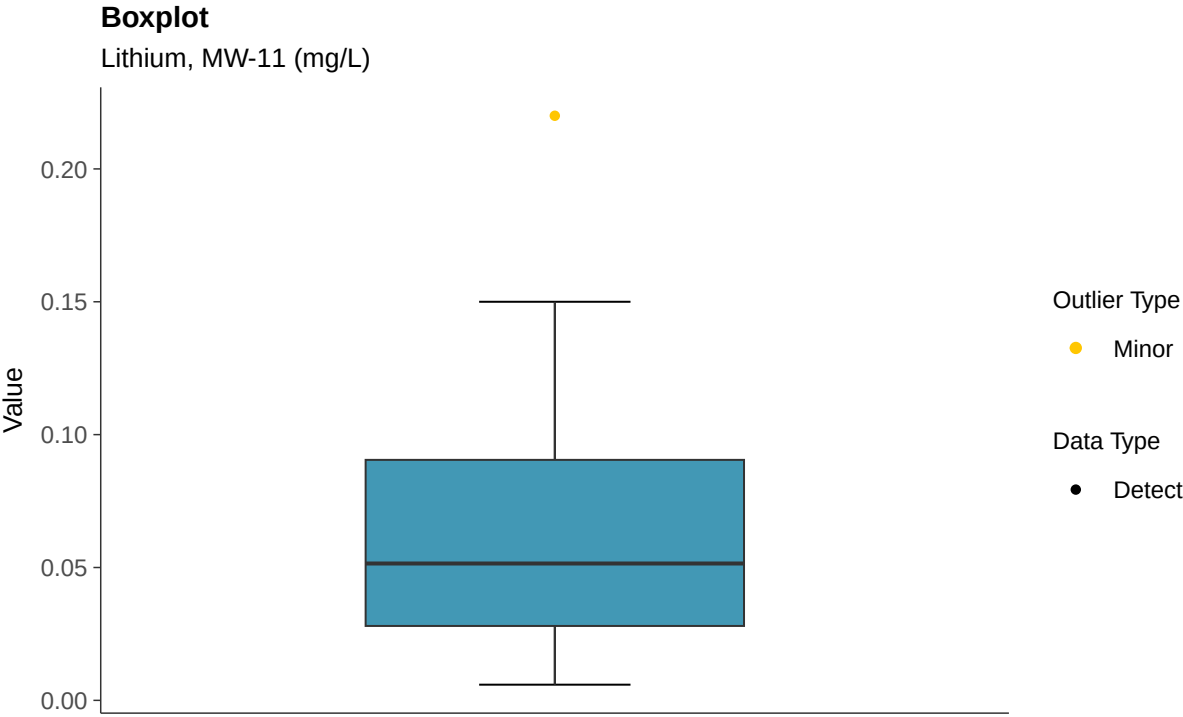


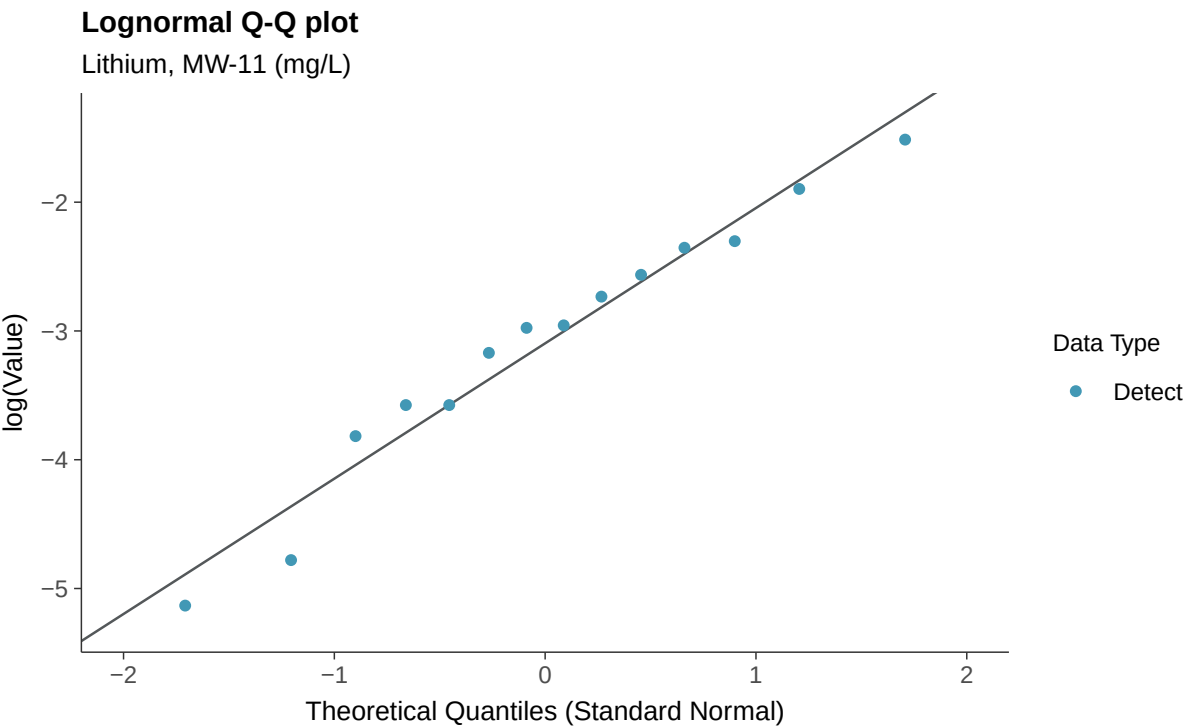
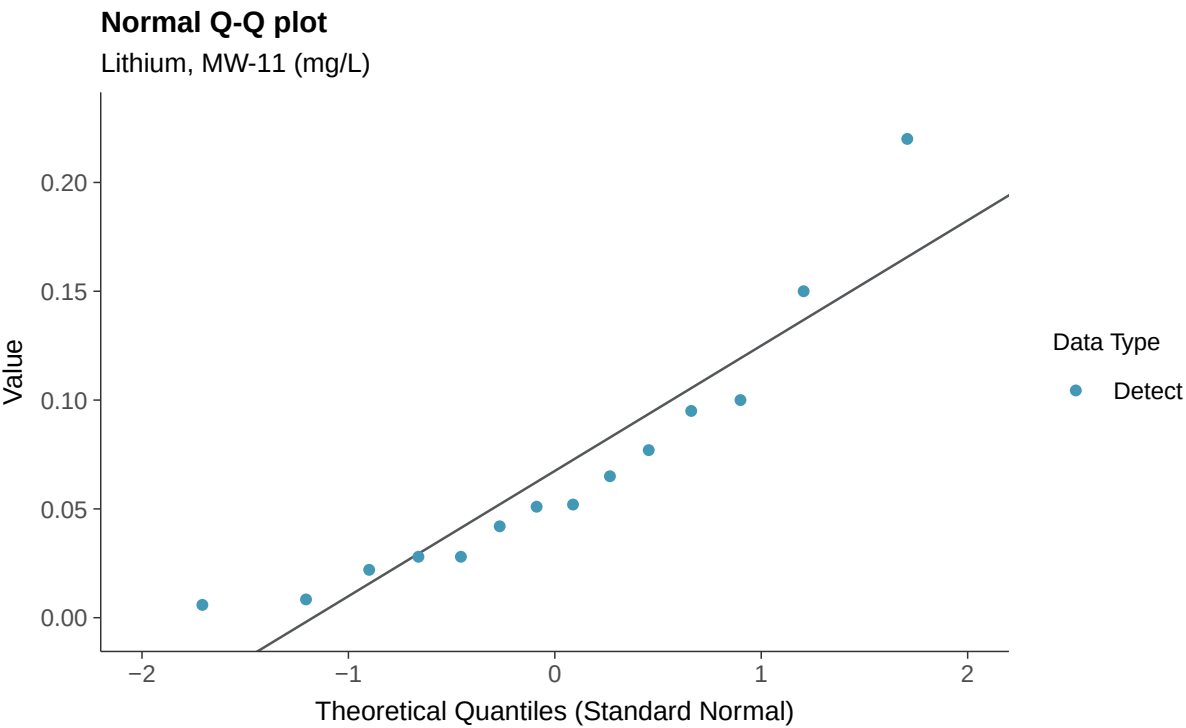


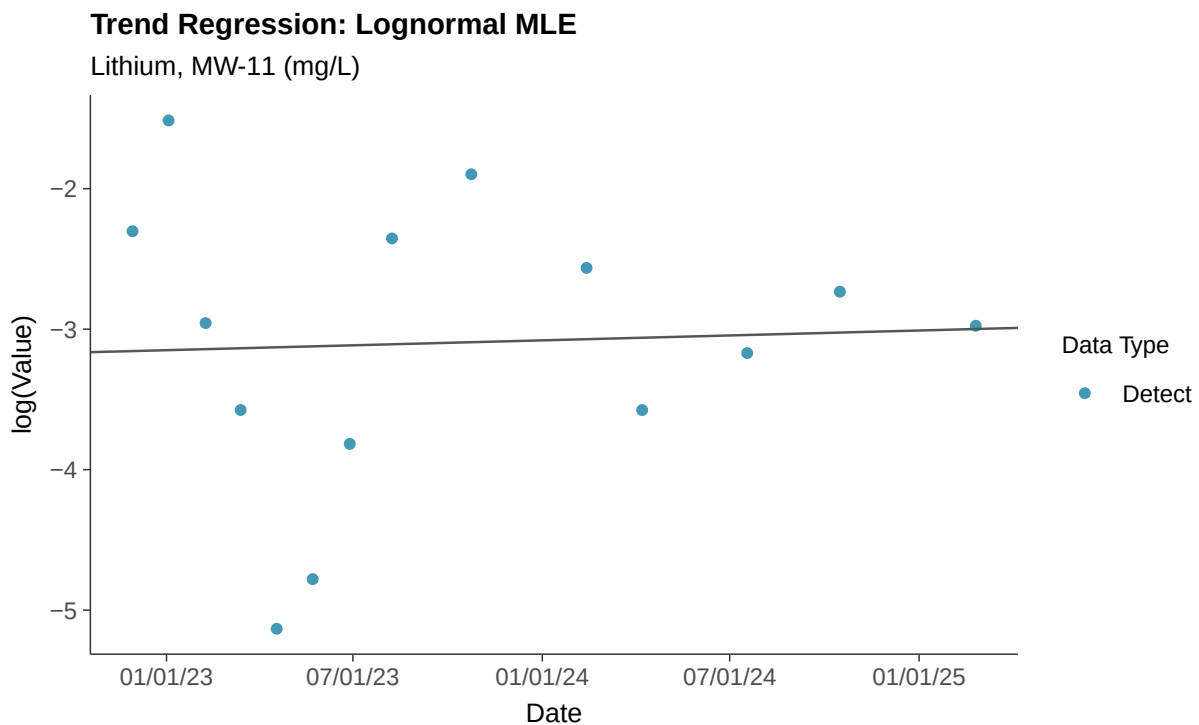
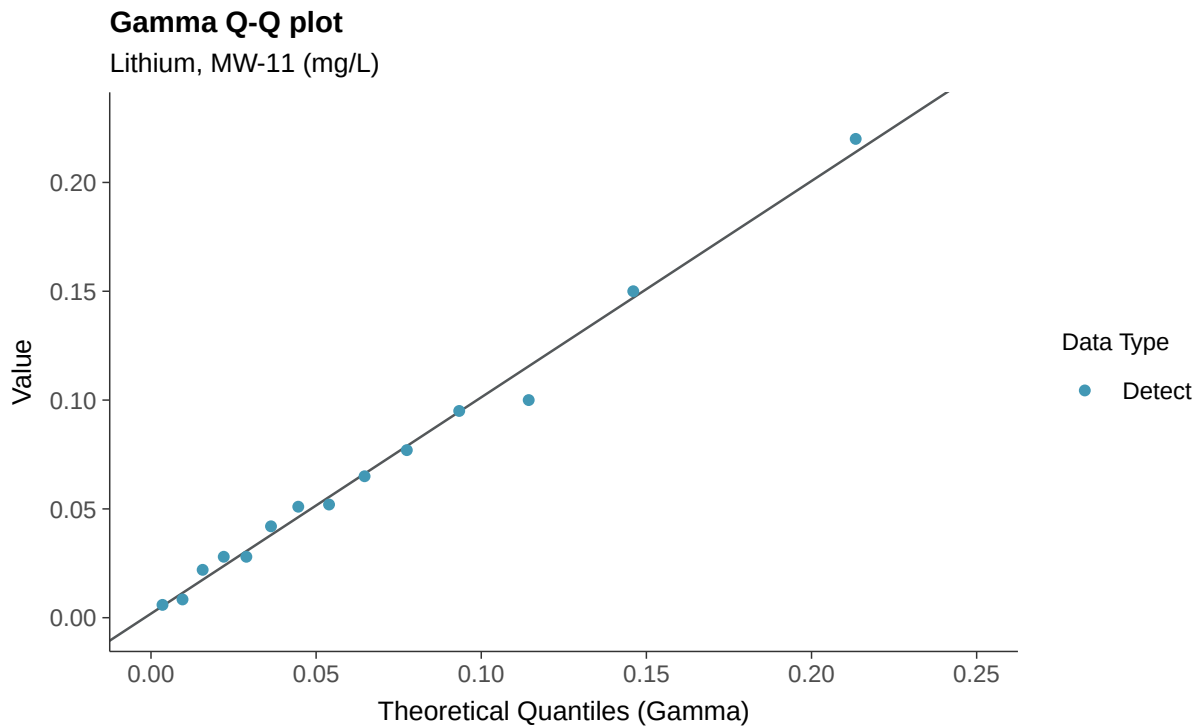
Appendix IV: Lithium, MW-11

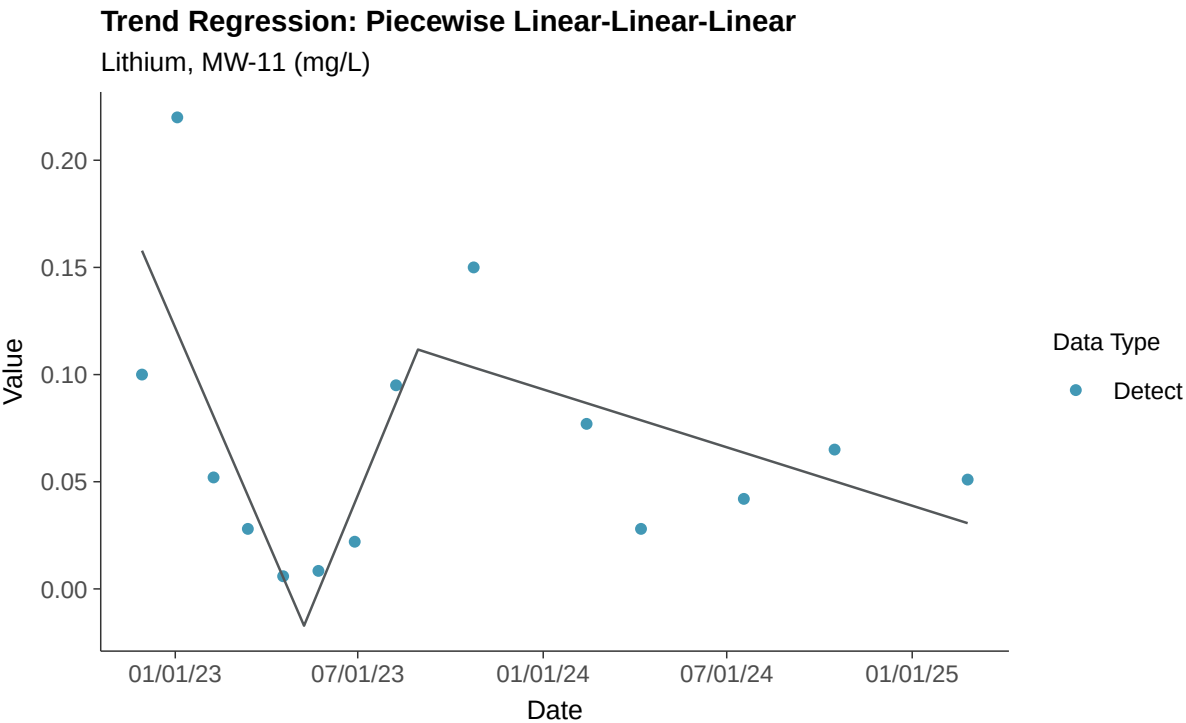
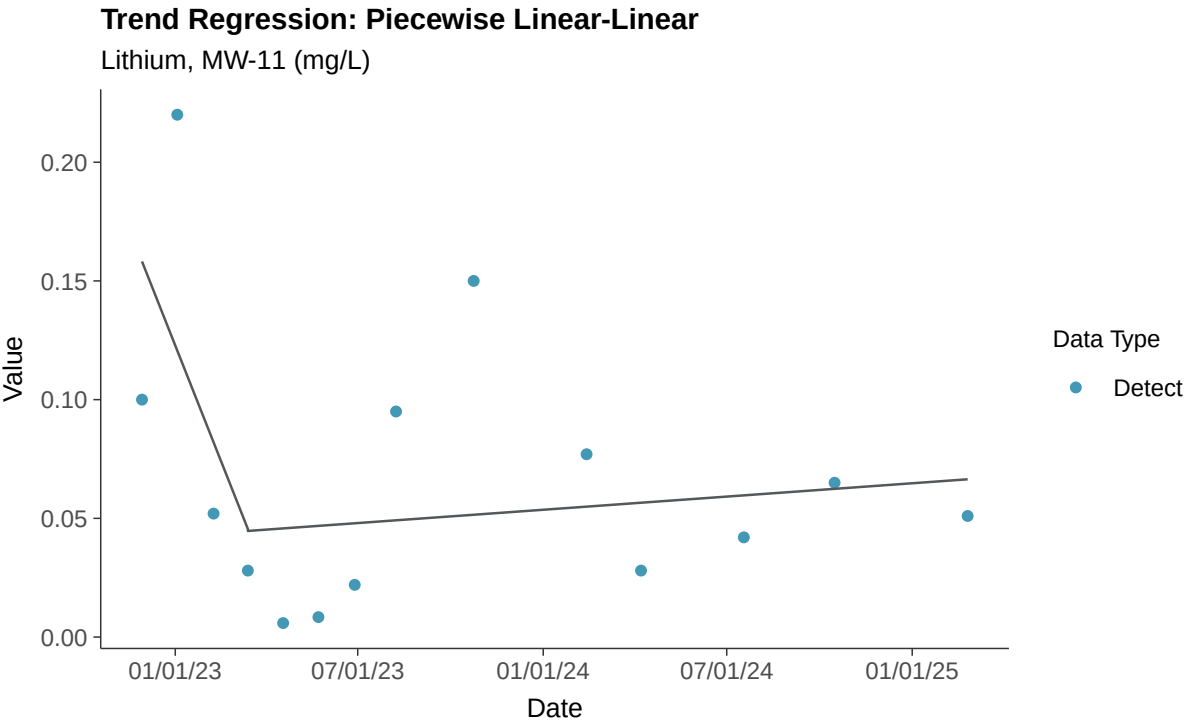
ID: 21_2_4_116







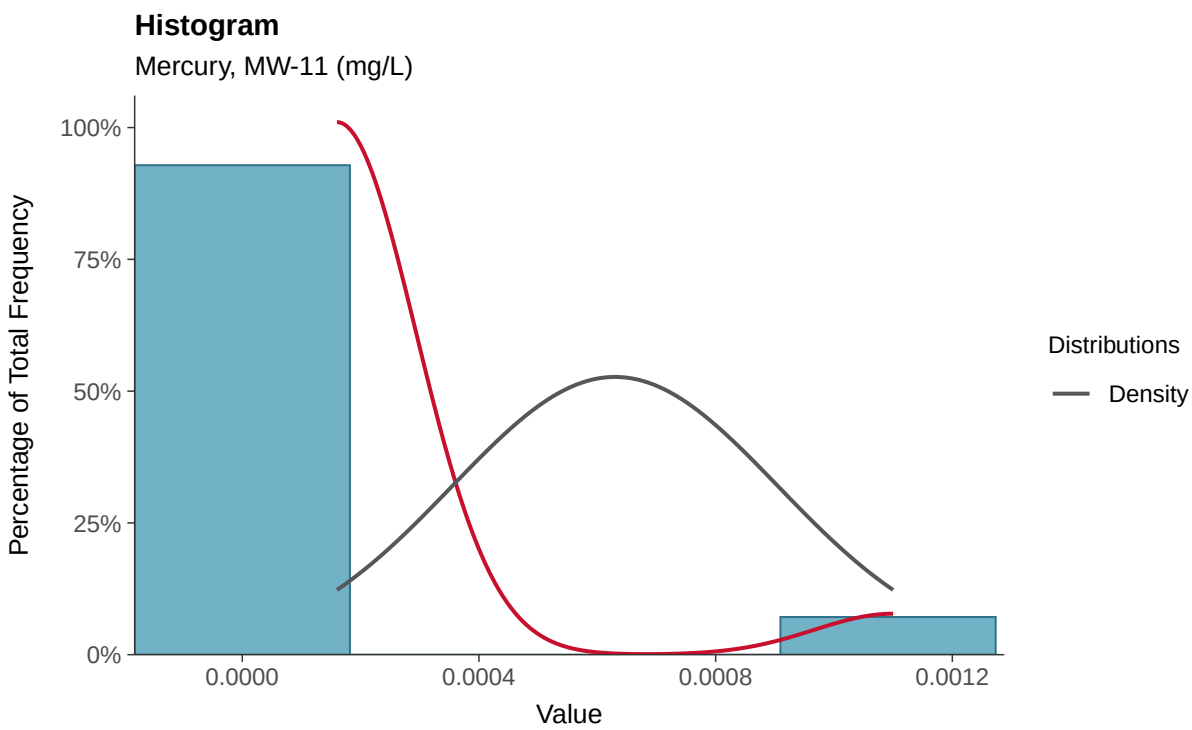
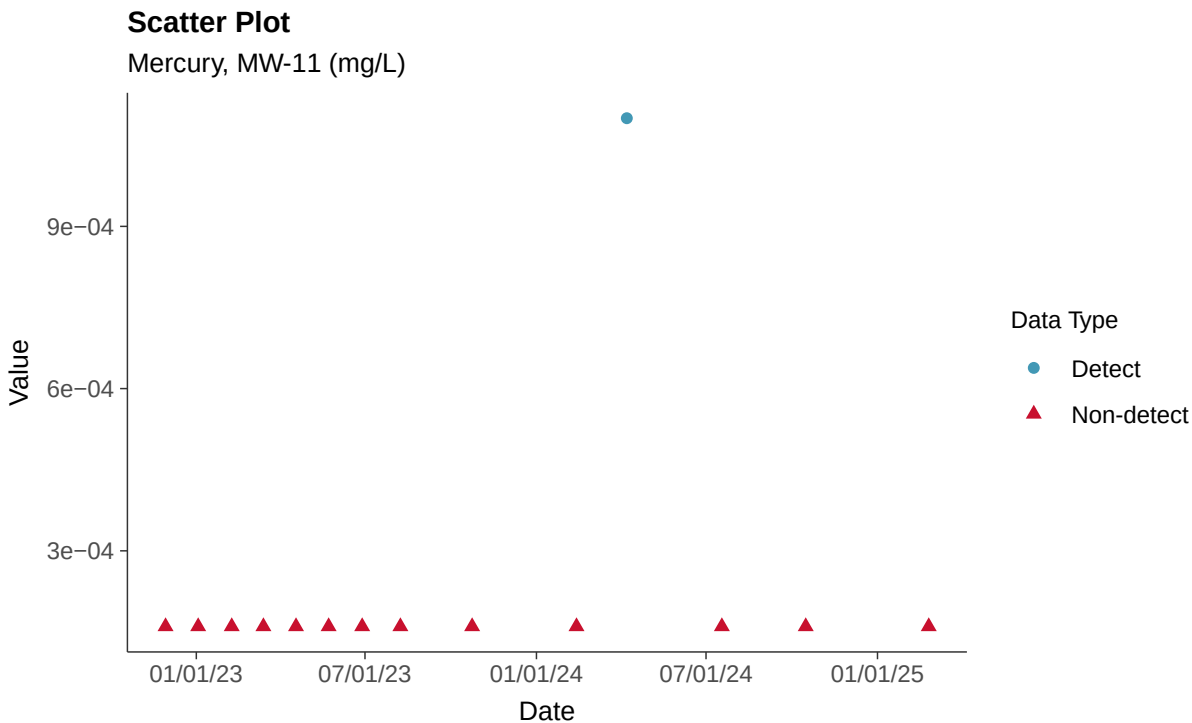


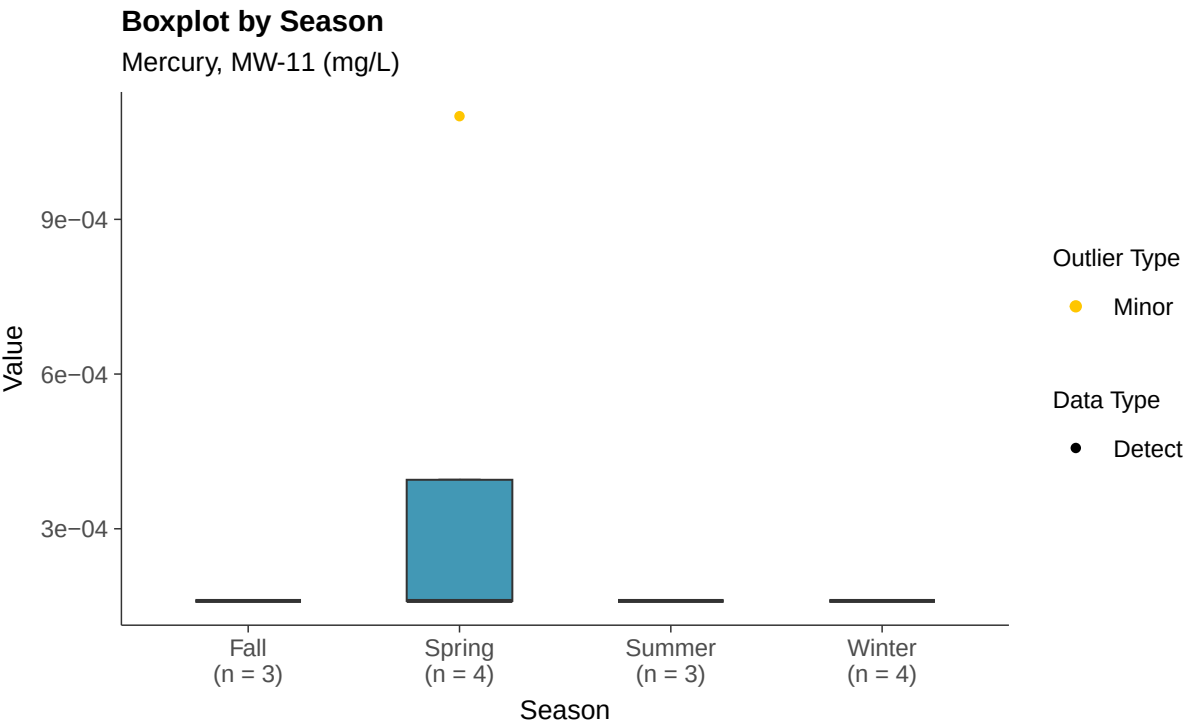
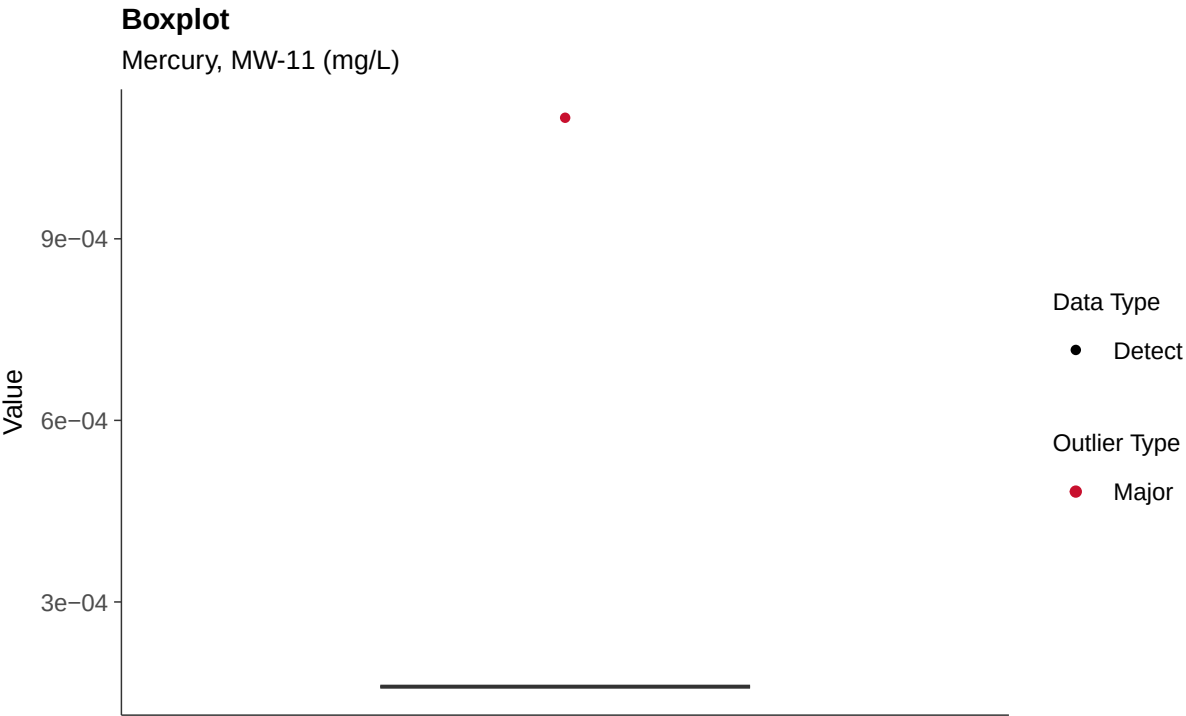


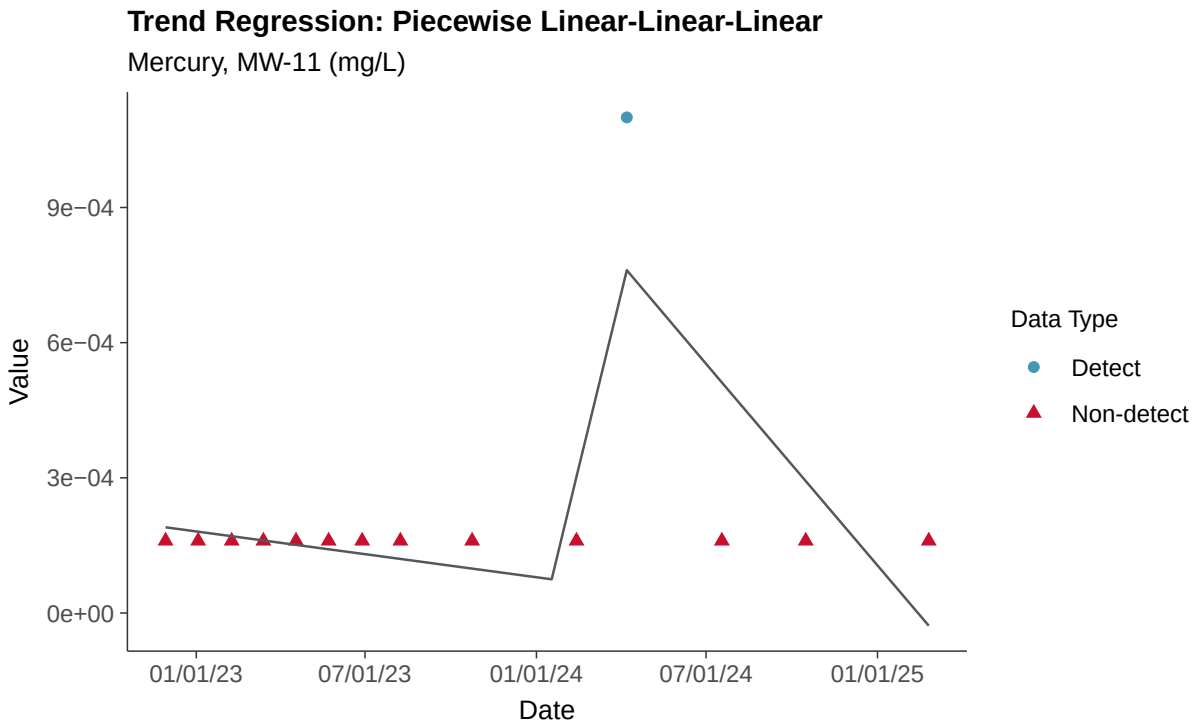
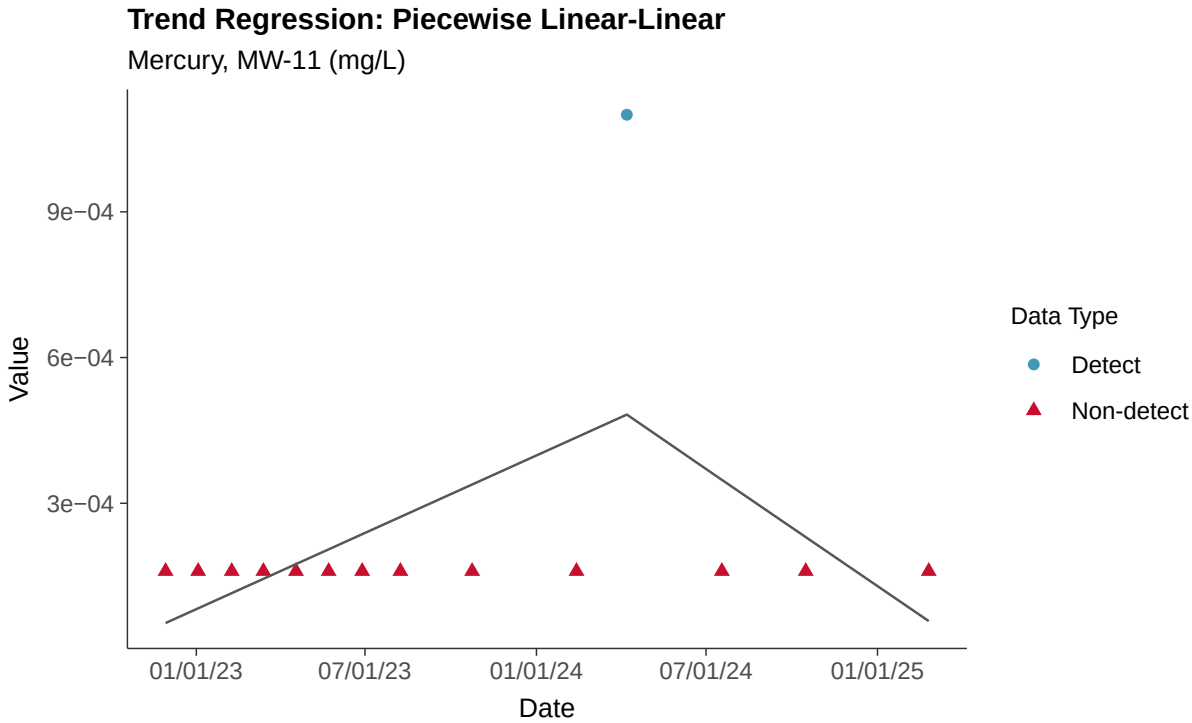


Appendix IV: Mercury, MW-11

ID: 21_2_4_117



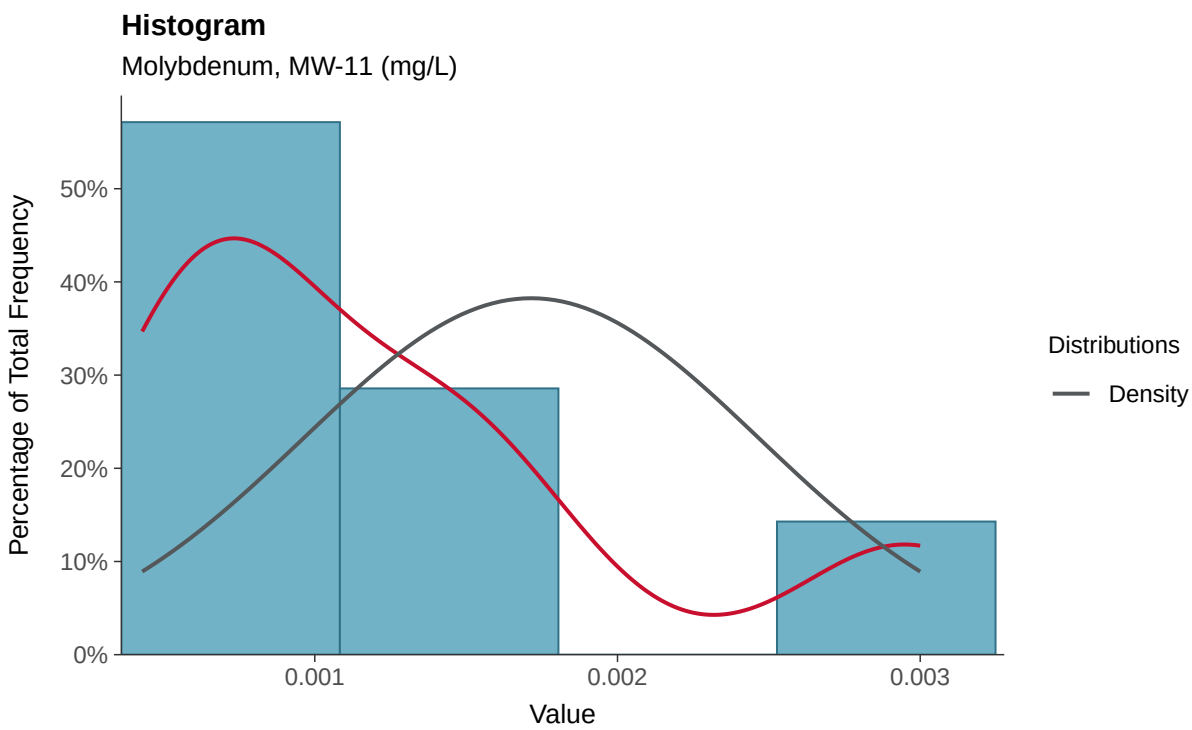
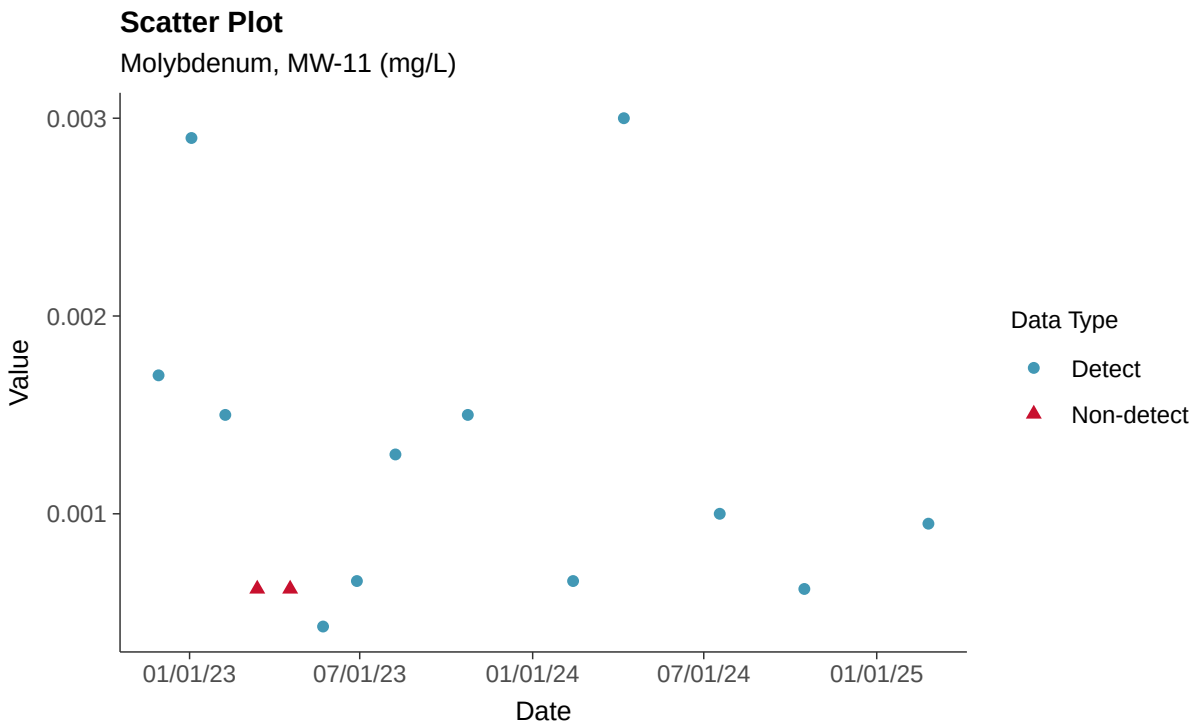


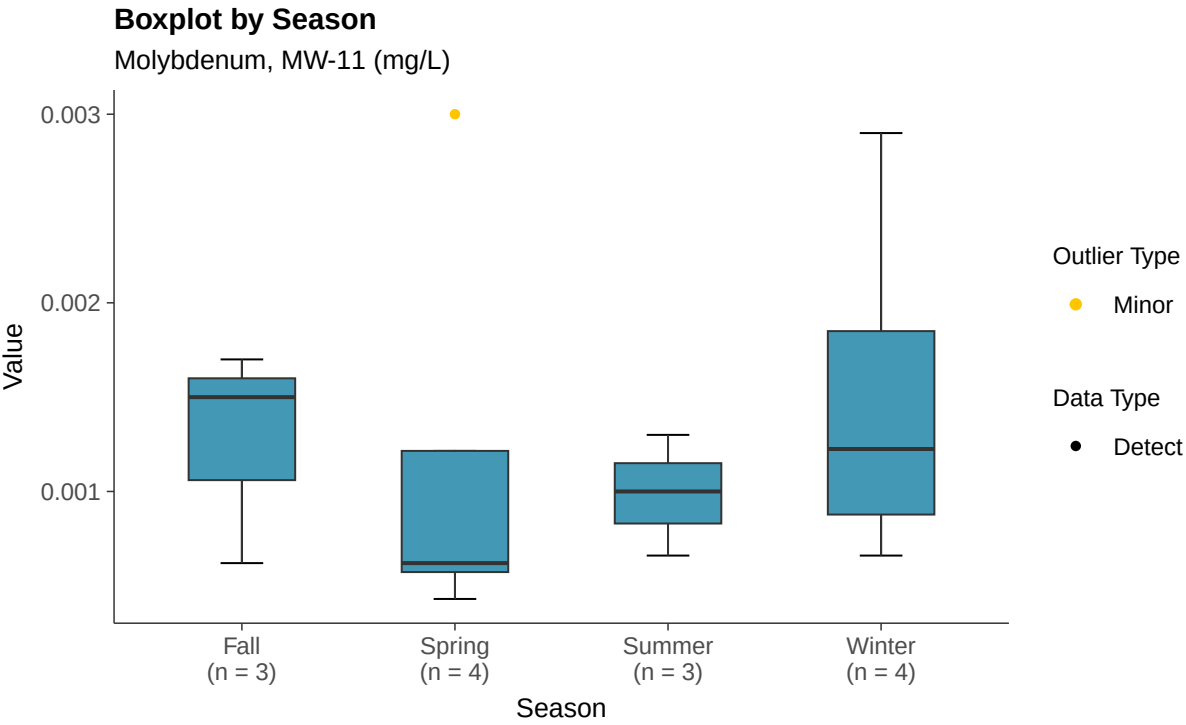
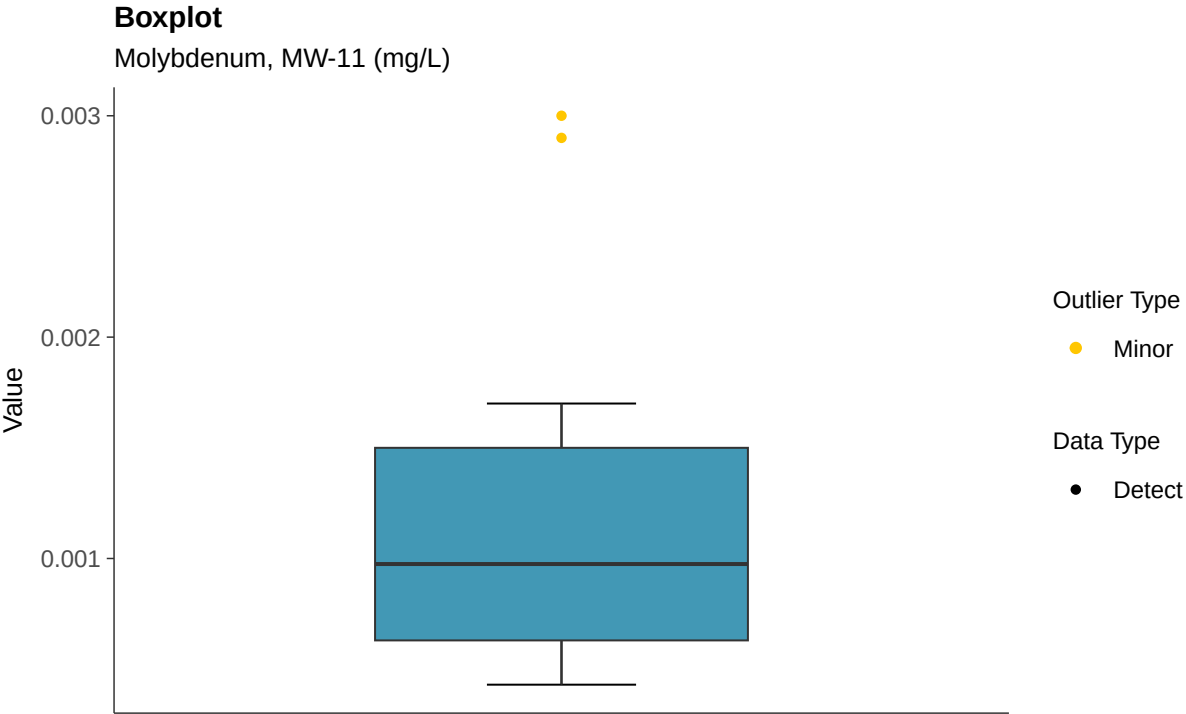


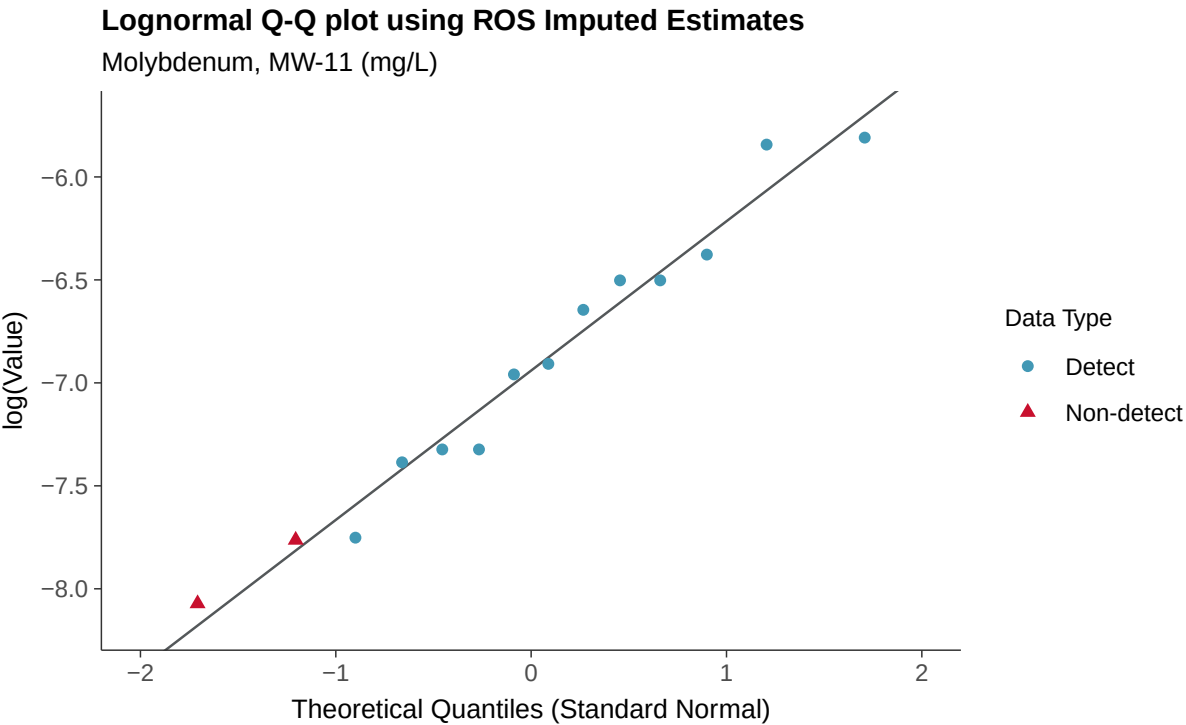
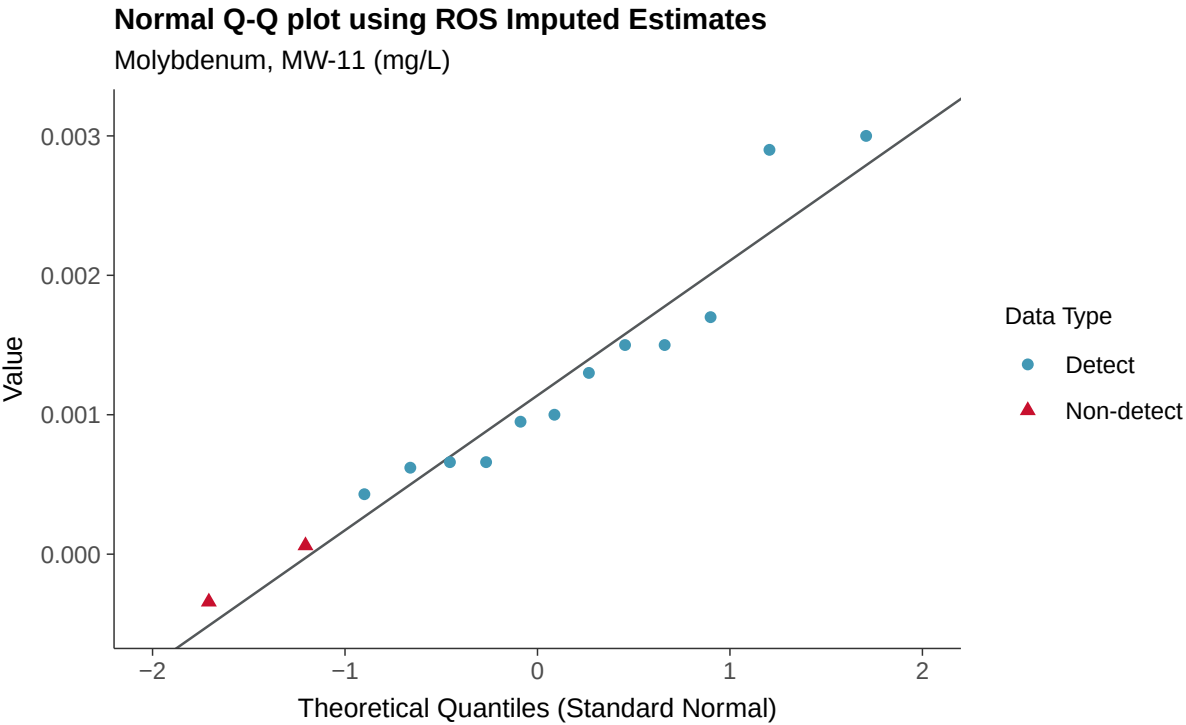


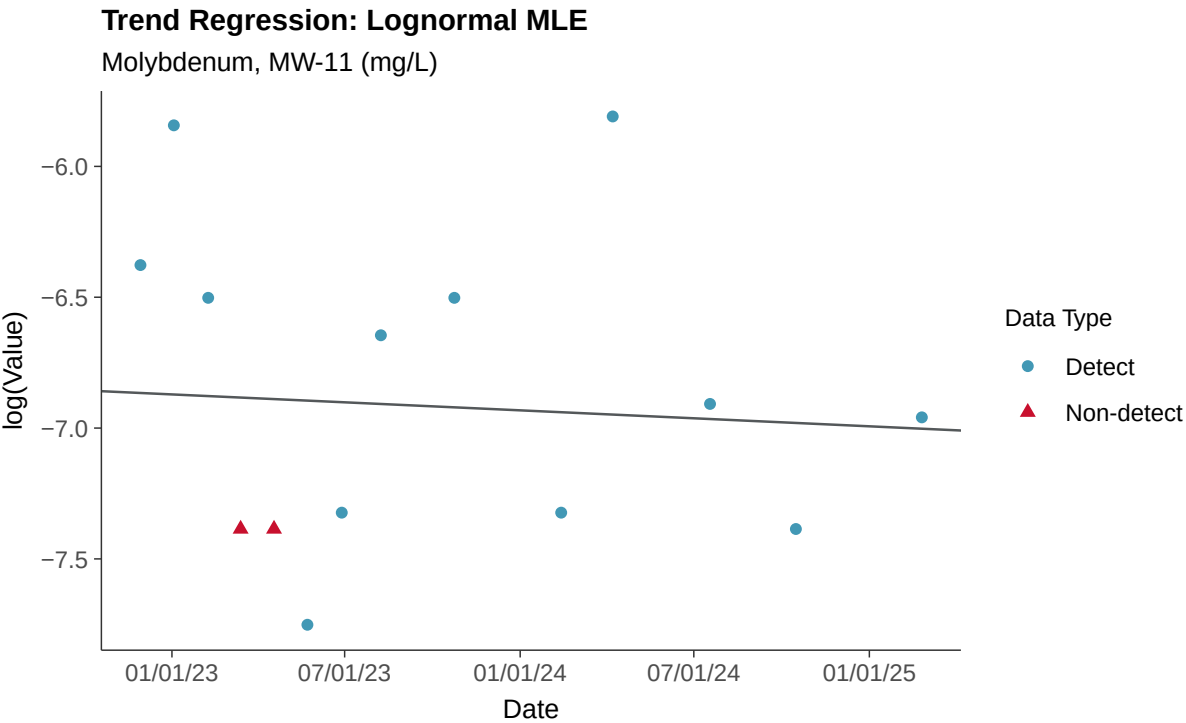
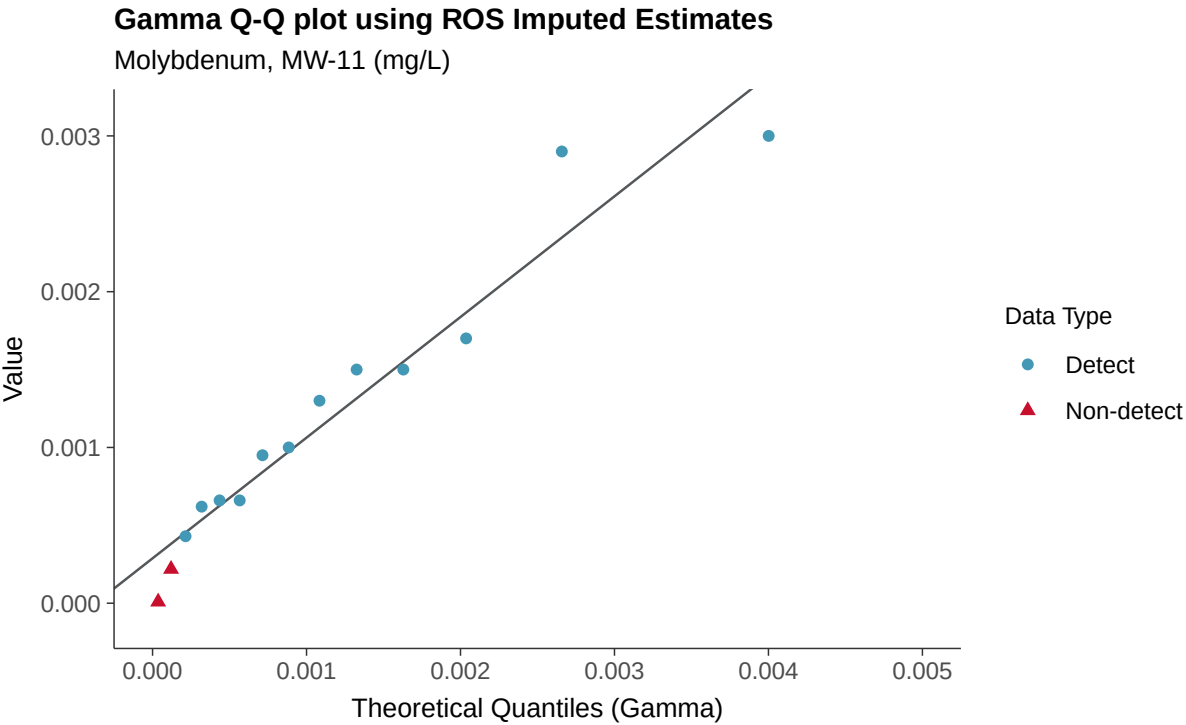
Appendix IV: Molybdenum, MW-11

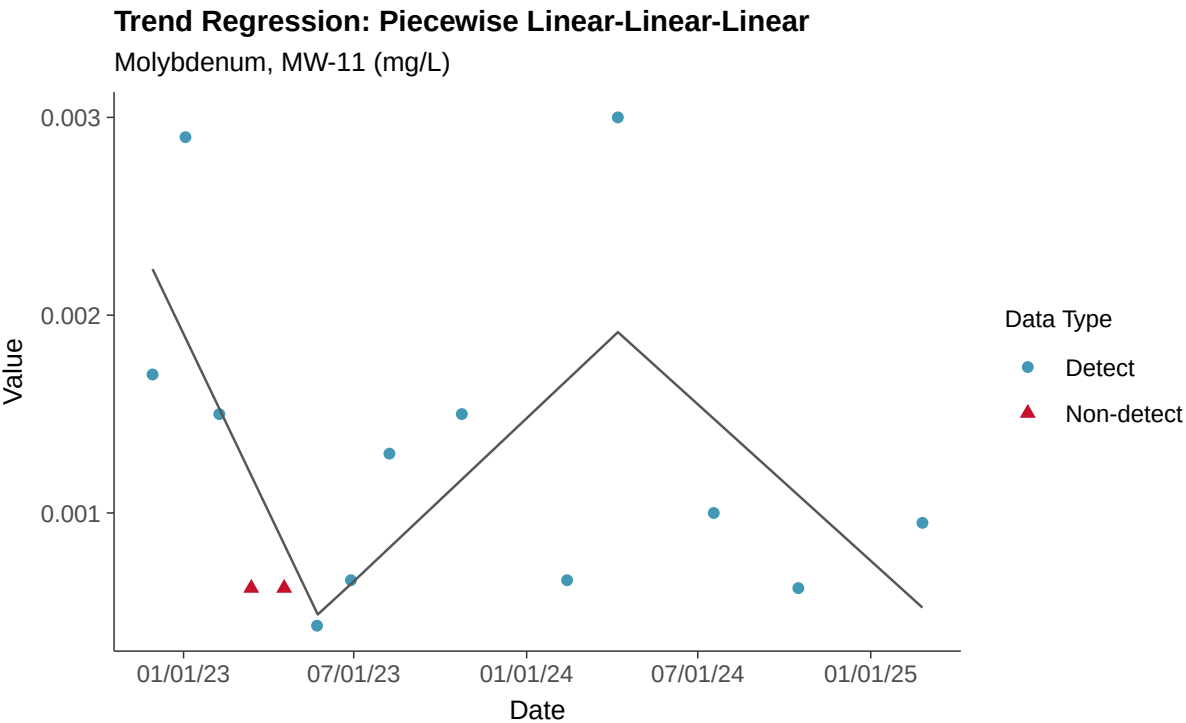
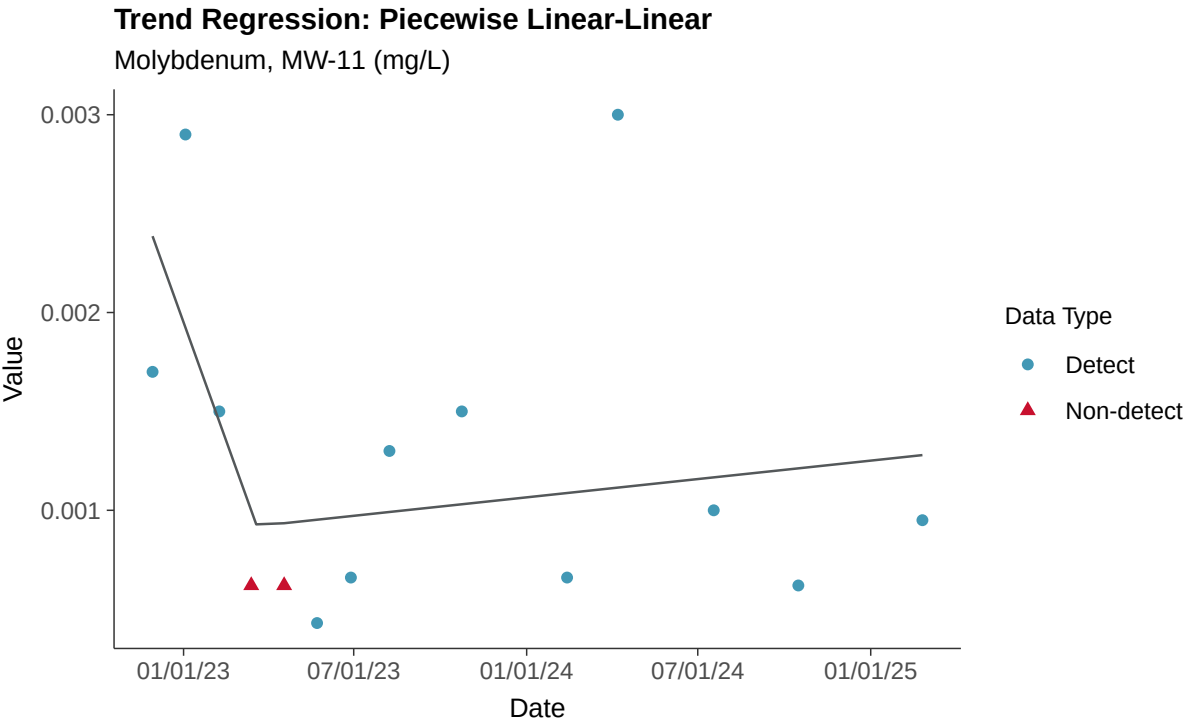
ID: 21_2_4_118







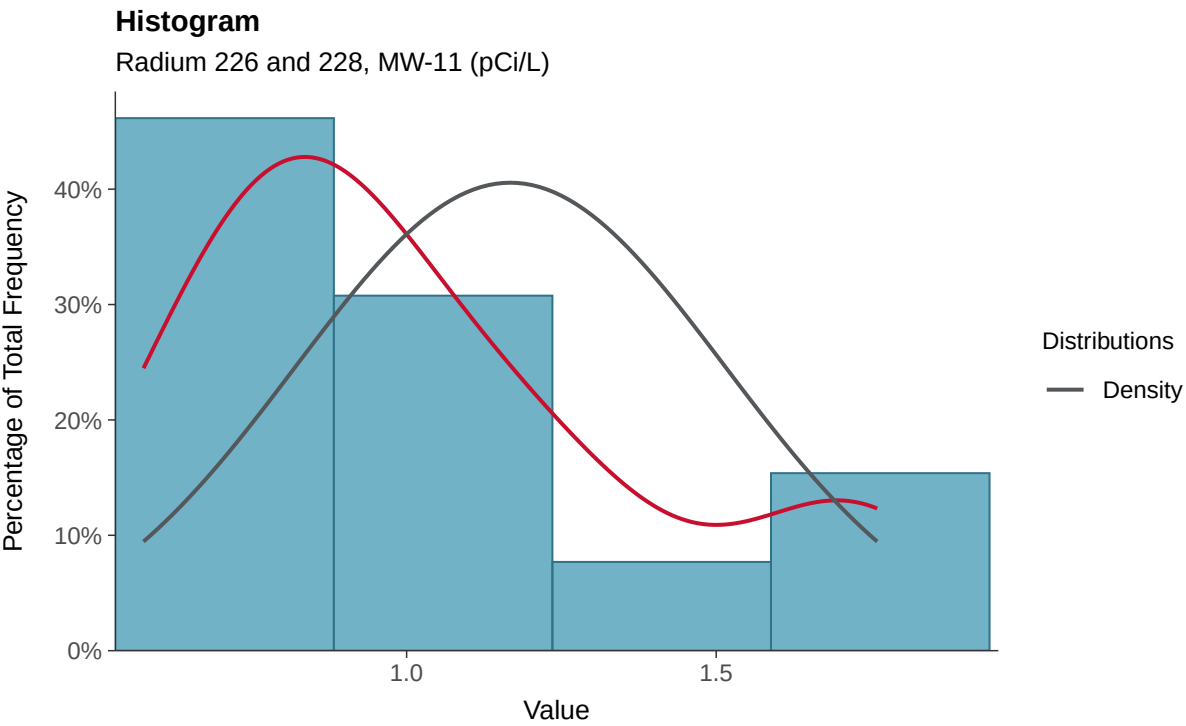
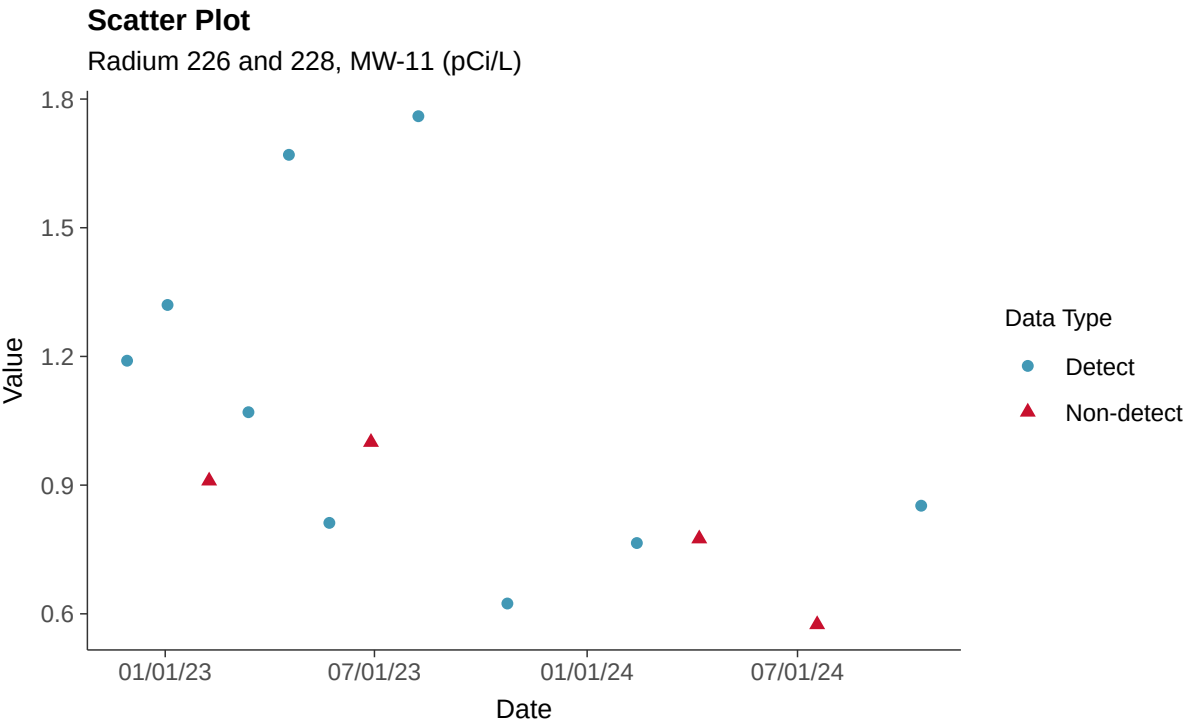






Appendix IV: Radium 226 and 228, MW-11

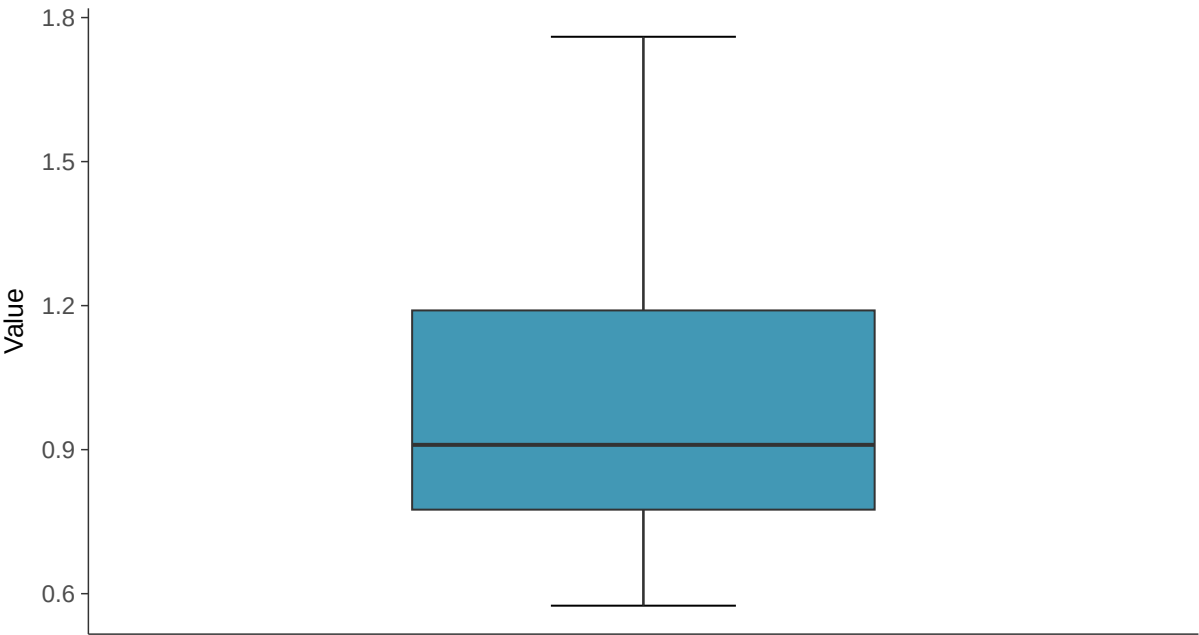
ID: 21_2_4_121





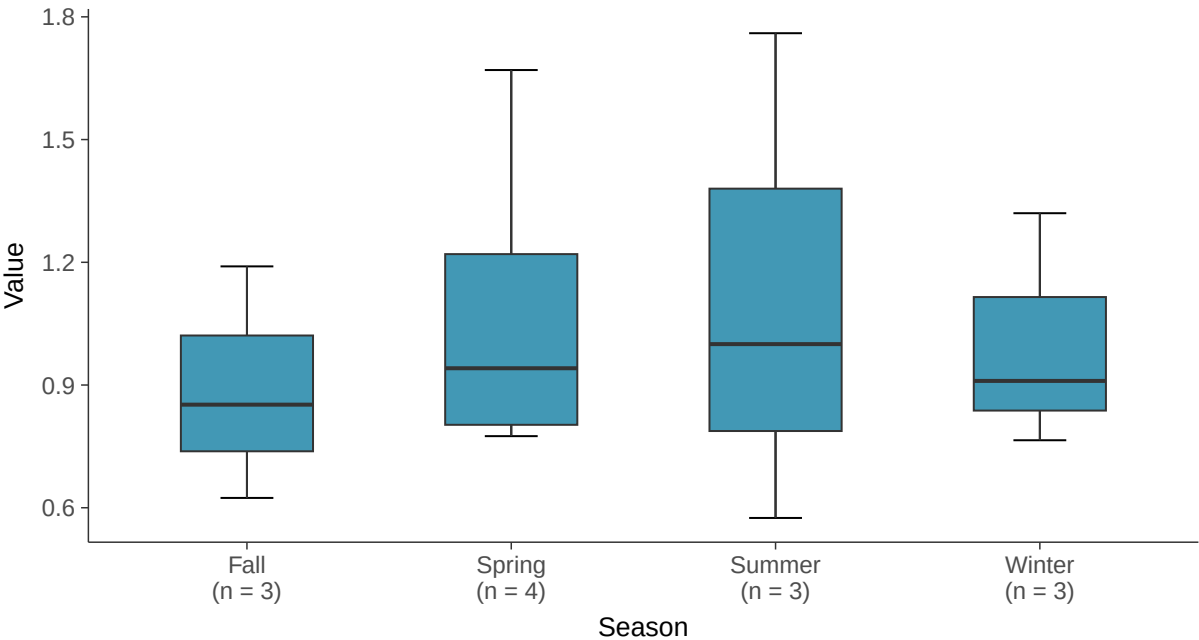
Boxplot

Radium 226 and 228, MW-11 (pCi/L)



Boxplot by Season

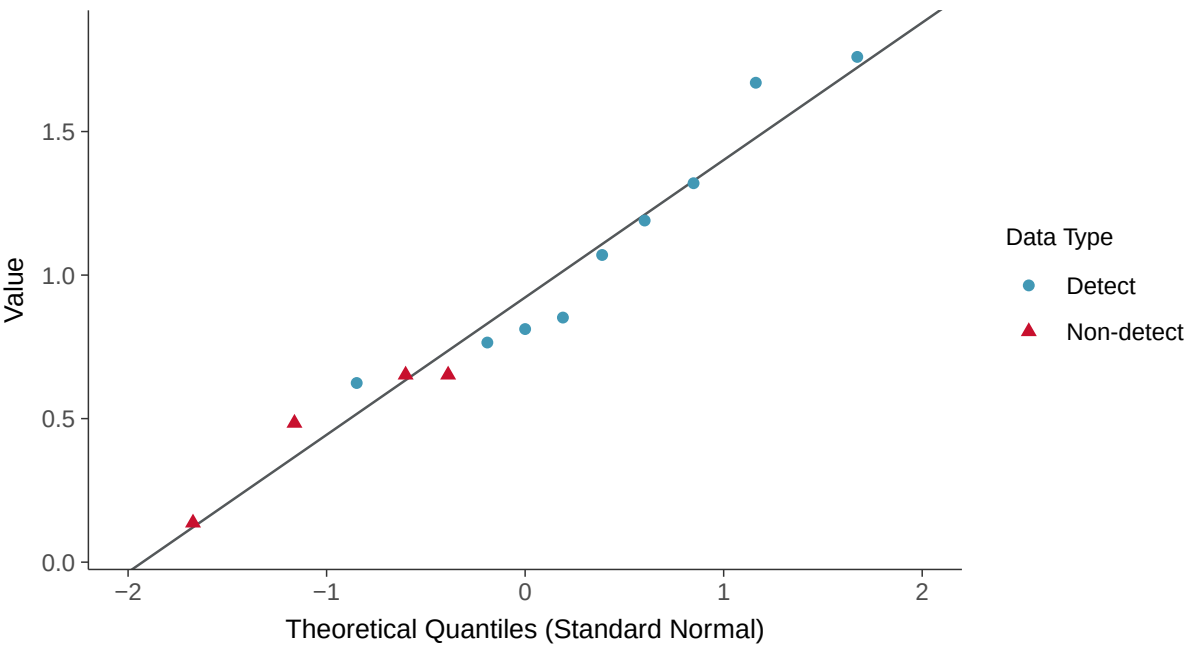
Radium 226 and 228, MW-11 (pCi/L)





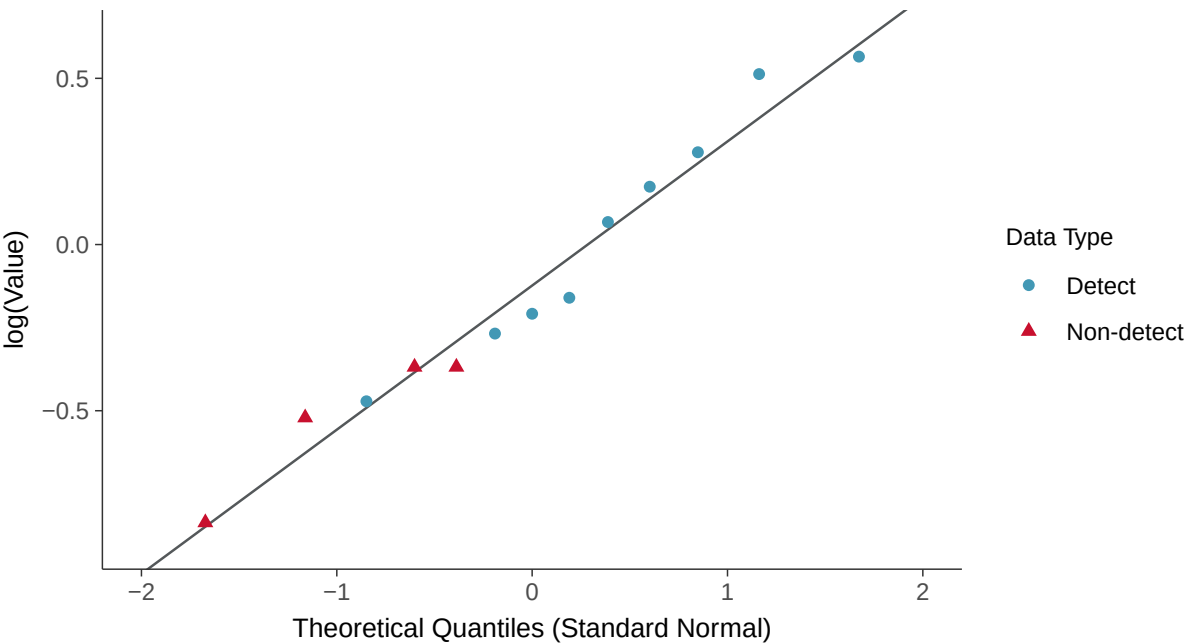
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

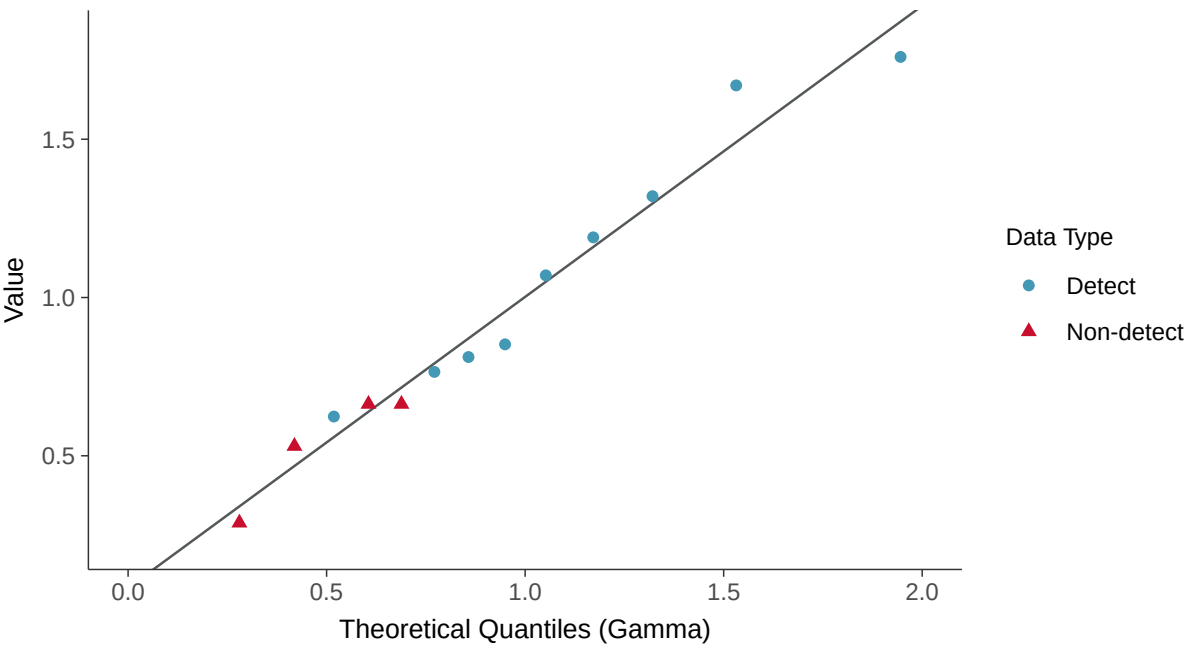
Radium 226 and 228, MW-11 (pCi/L)





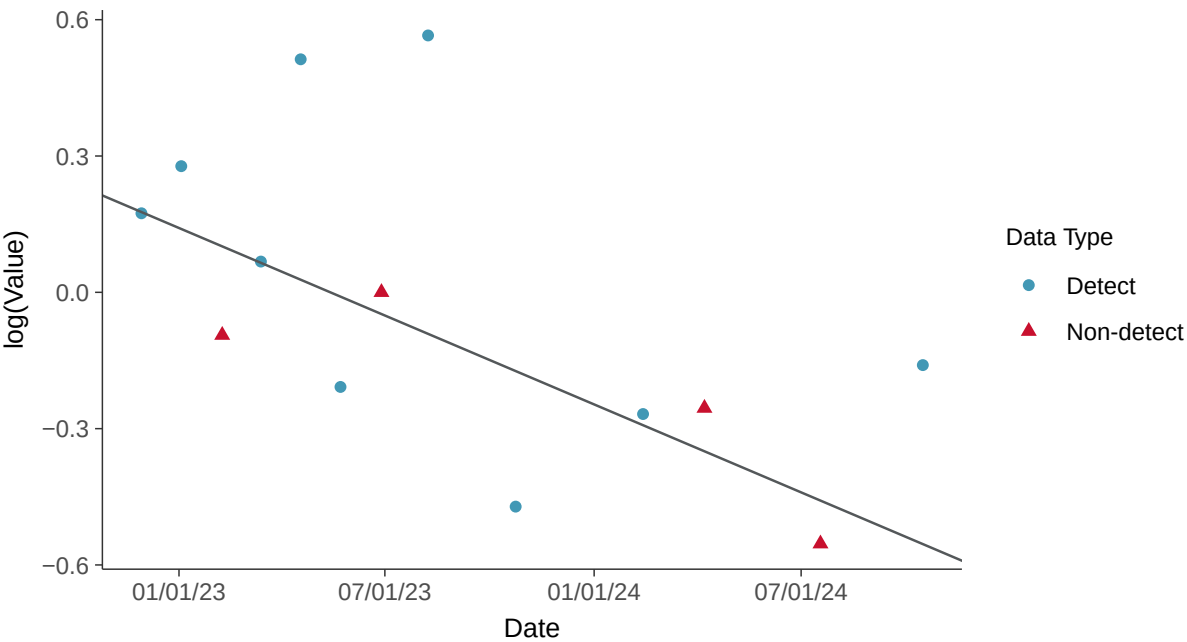
Gamma Q-Q plot using ROS Imputed Estimates

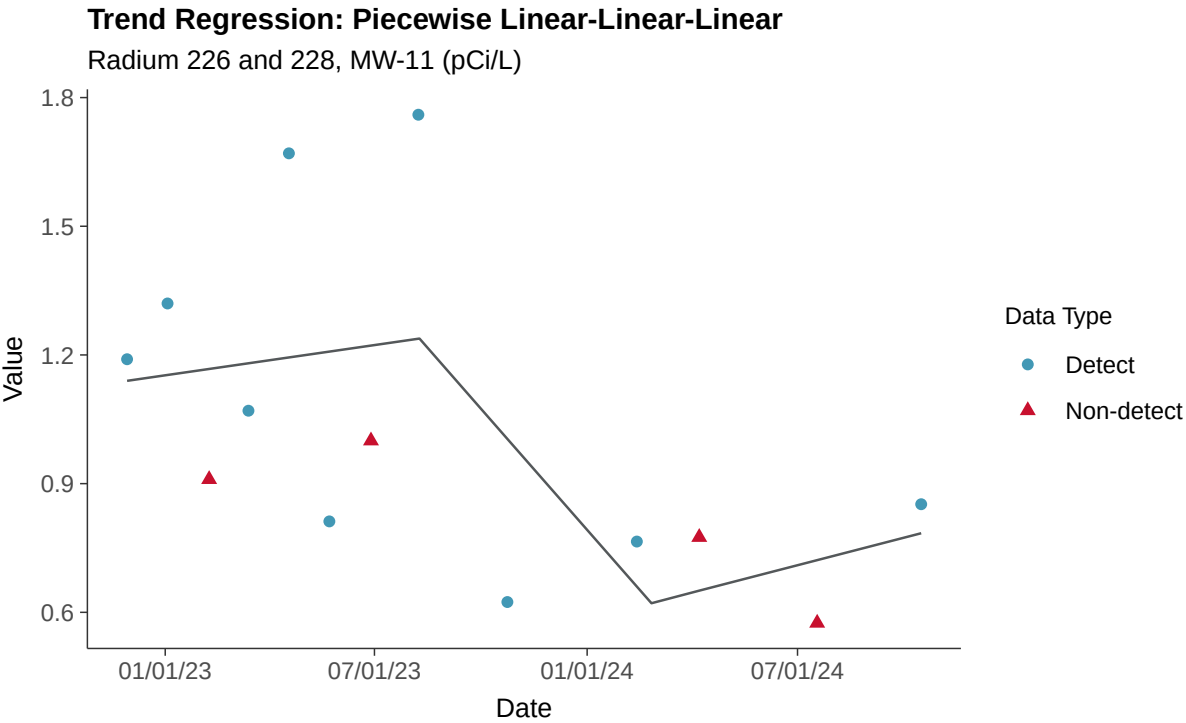
Radium 226 and 228, MW-11 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-11 (pCi/L)

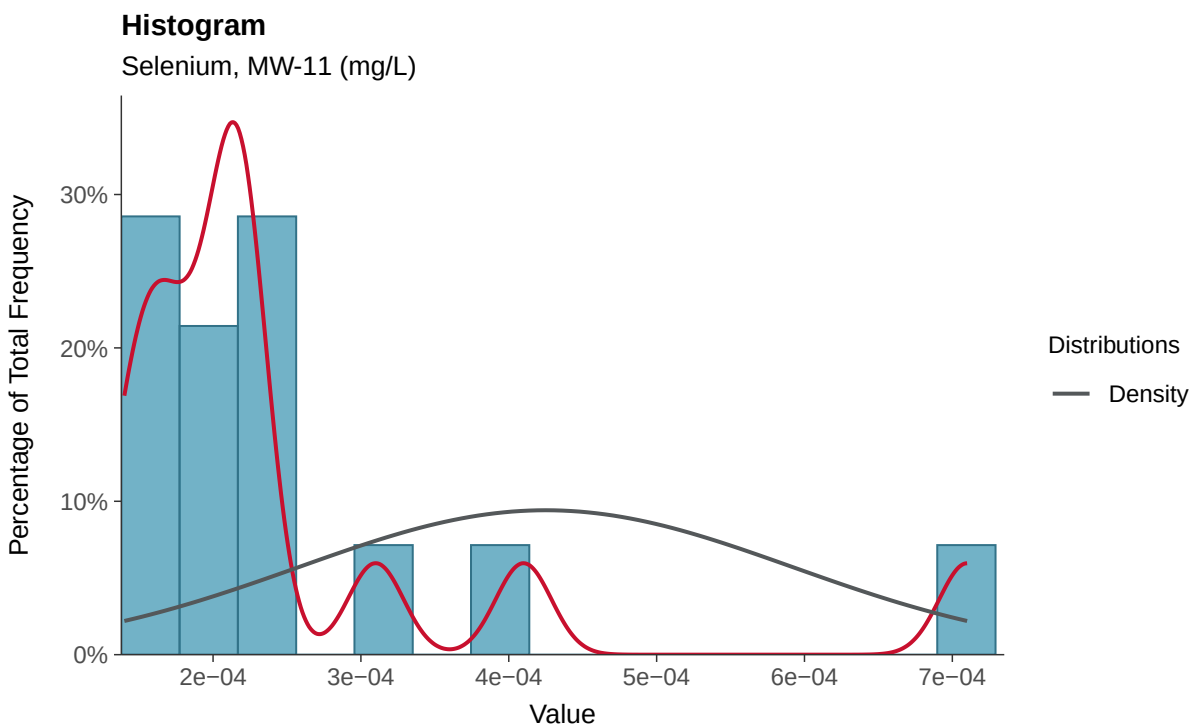
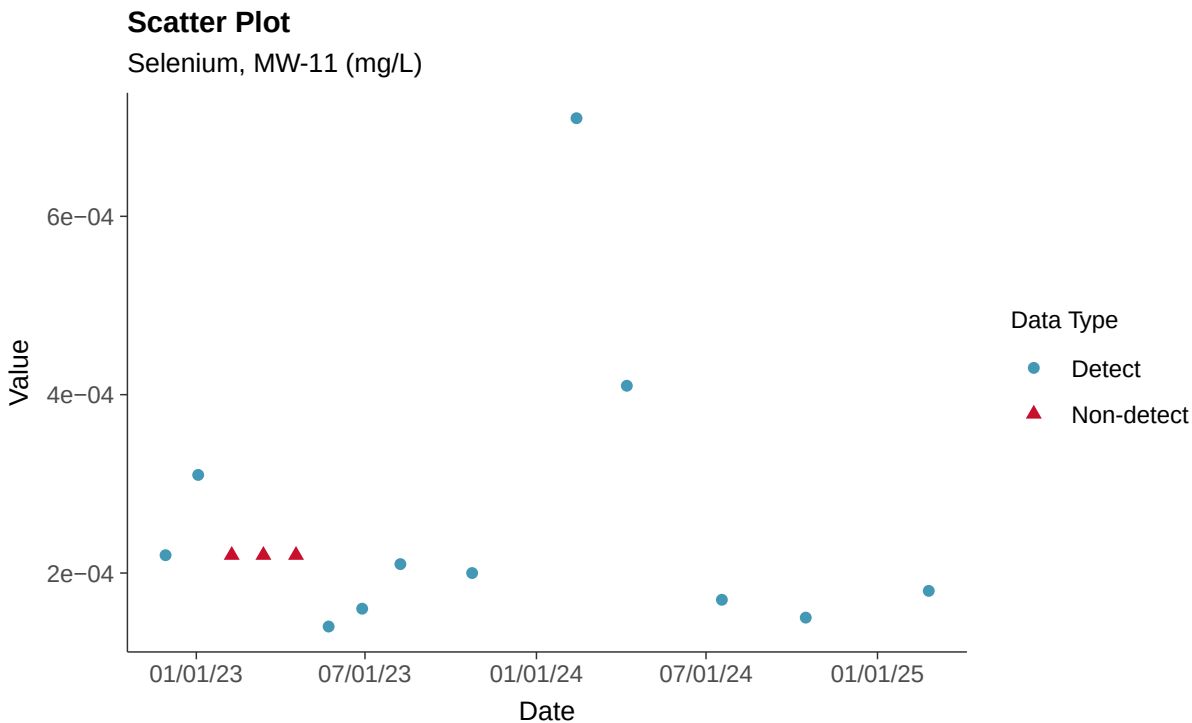


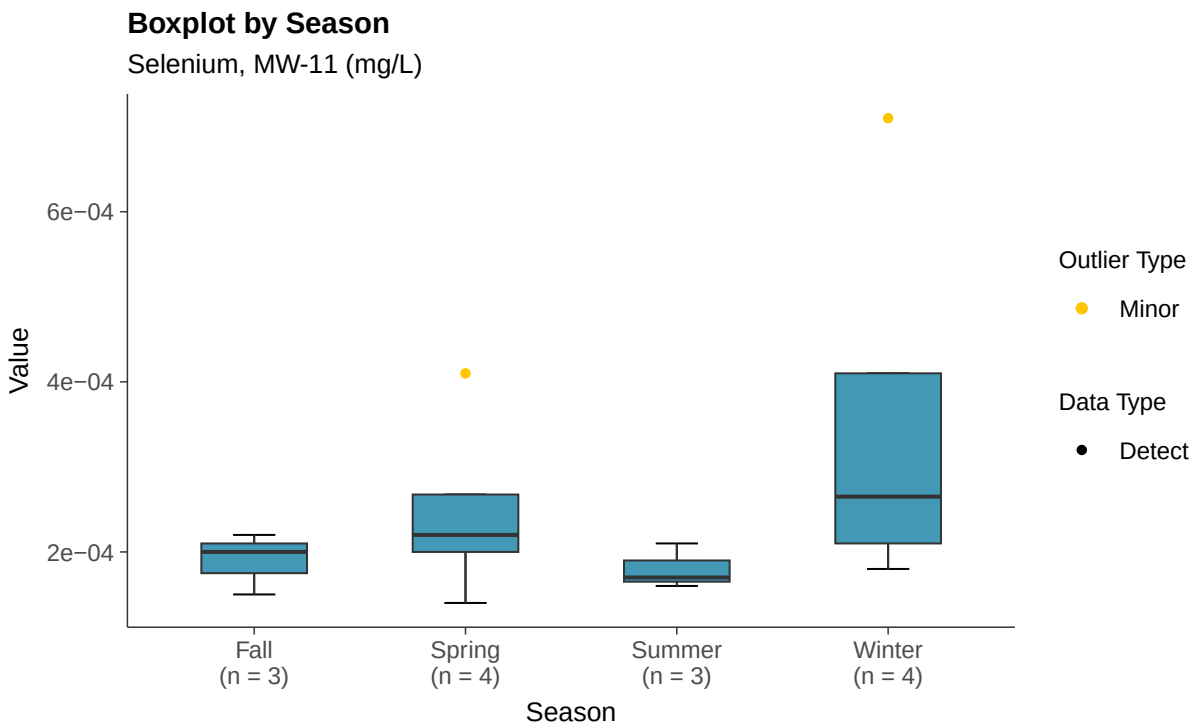
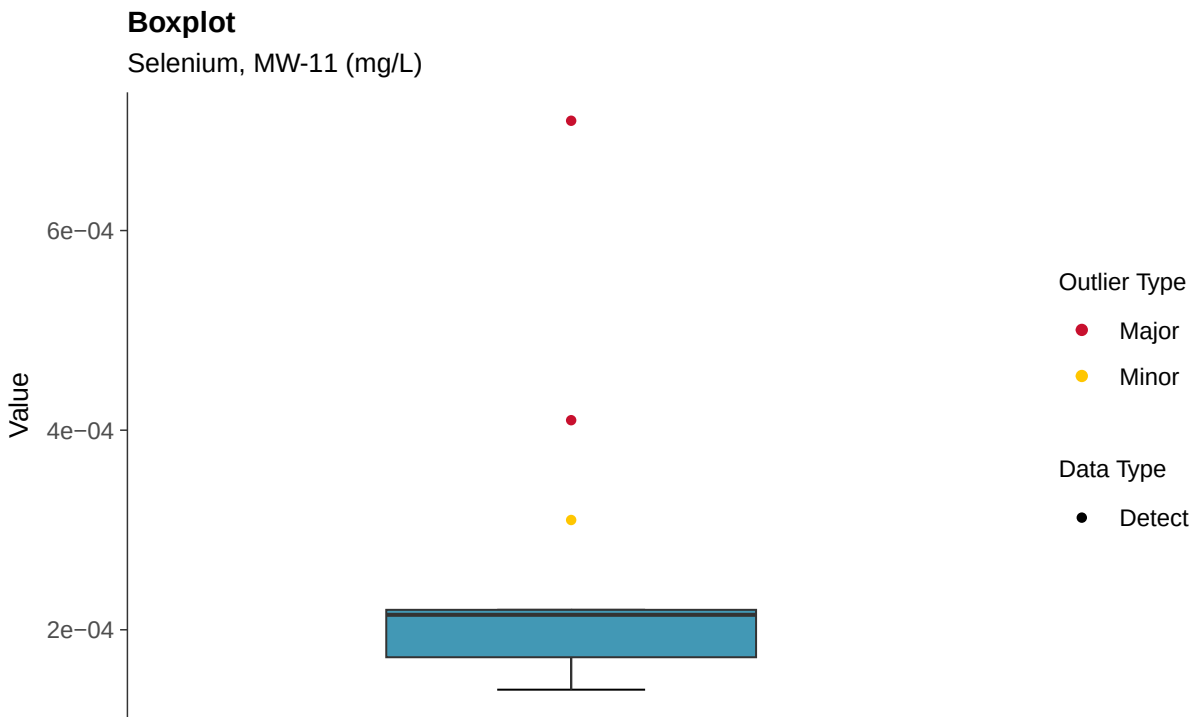




Appendix IV: Selenium, MW-11

ID: 21_2_4_122

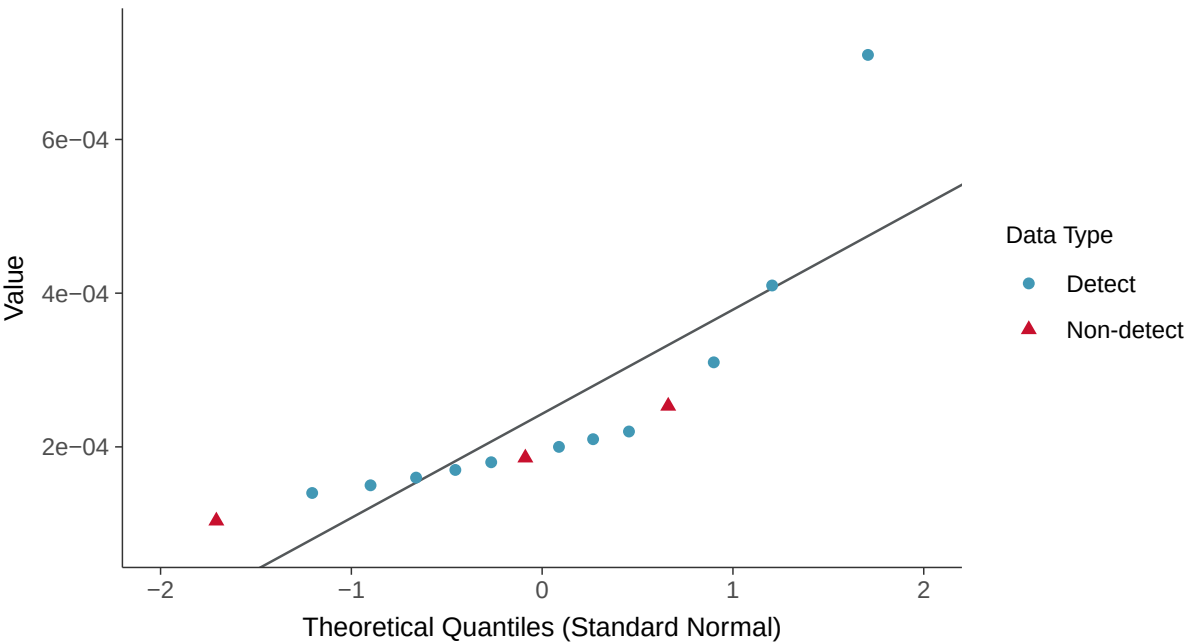






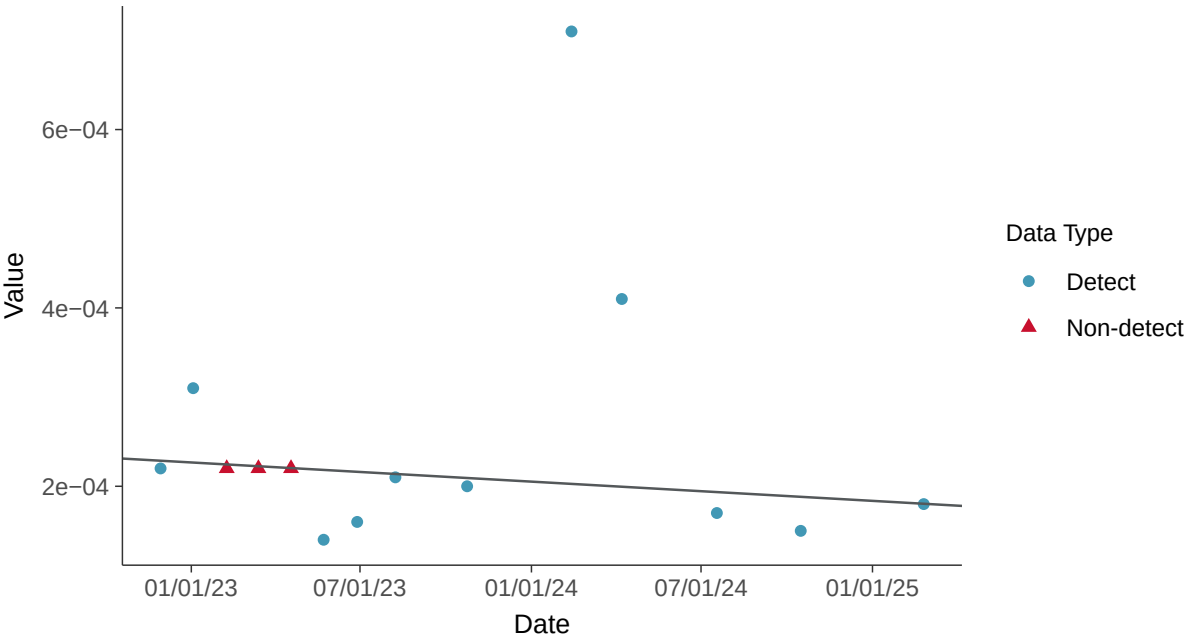
Normal Q-Q plot using ROS Imputed Estimates

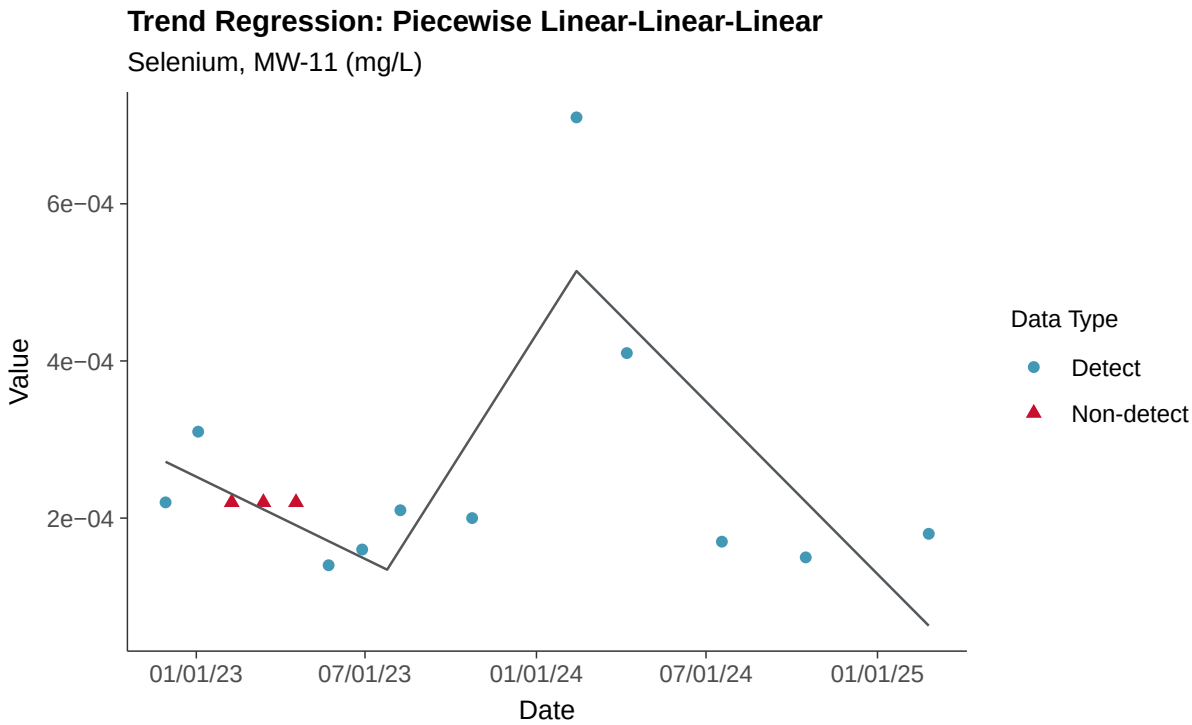
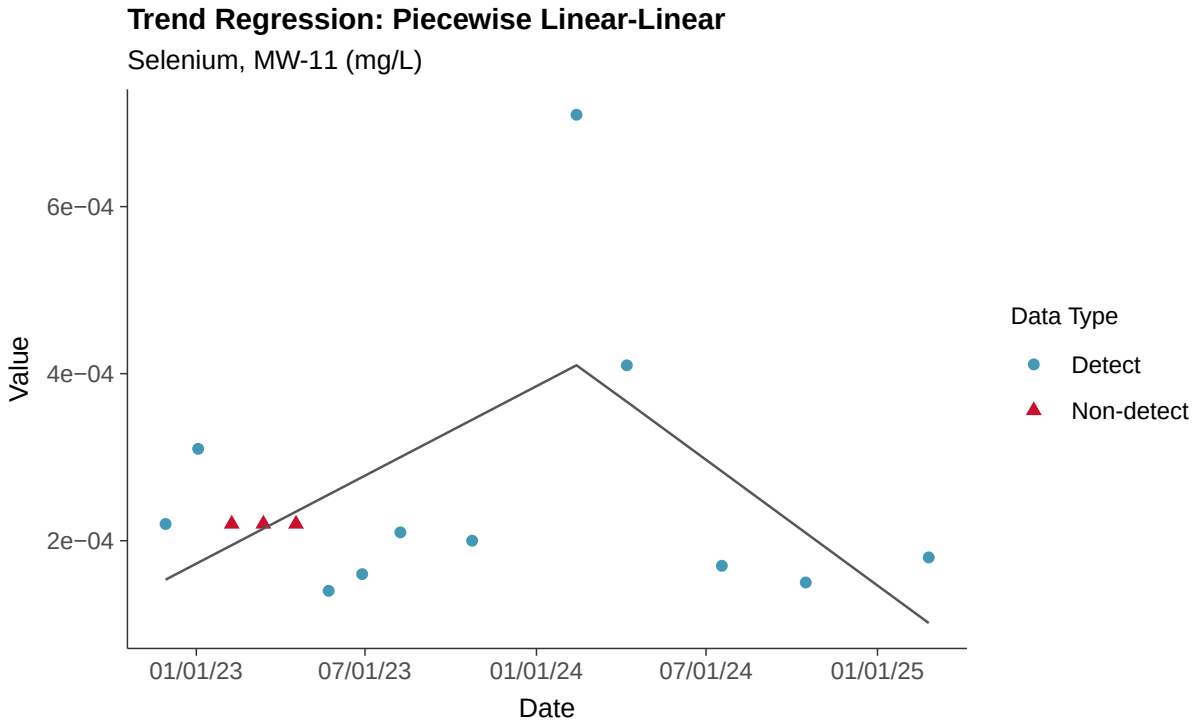
Selenium, MW-11 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-11 (mg/L)

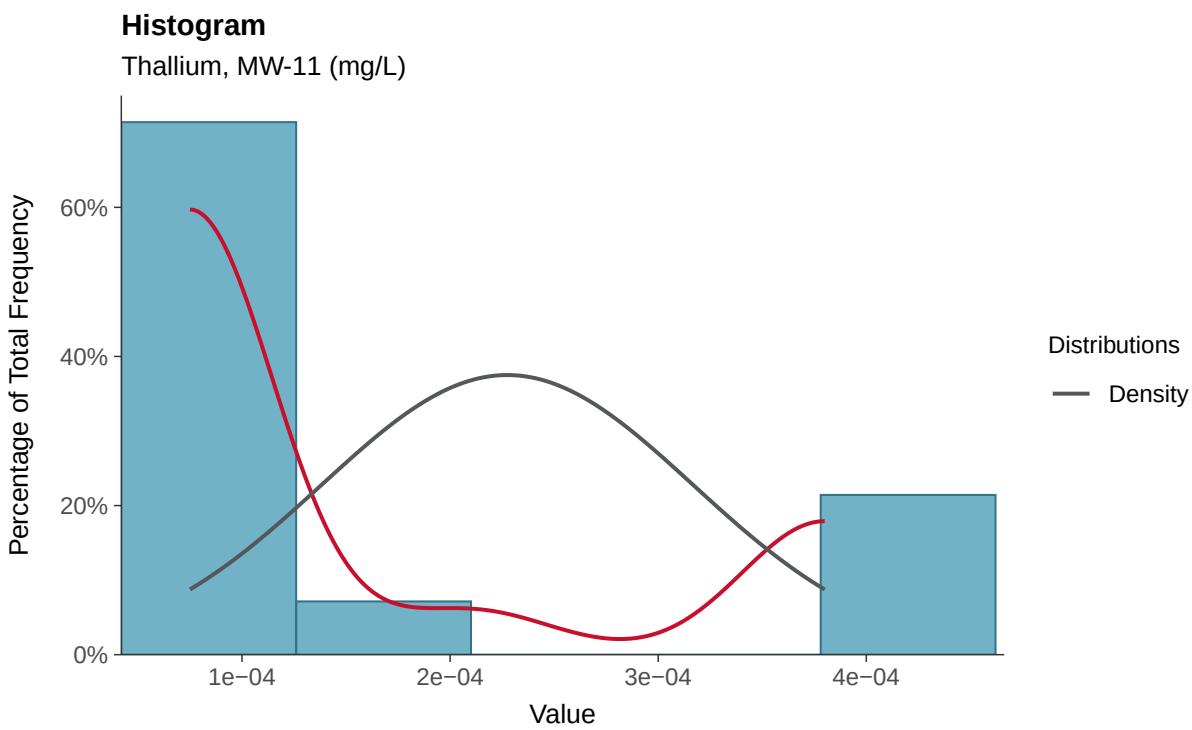
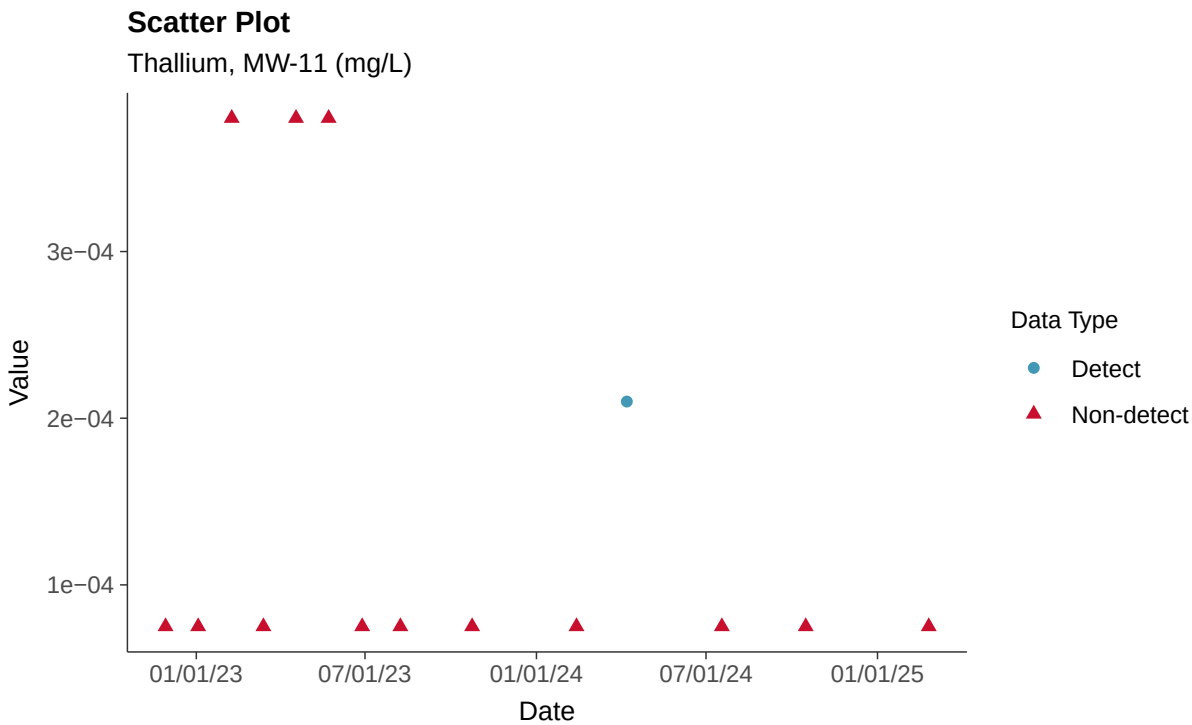


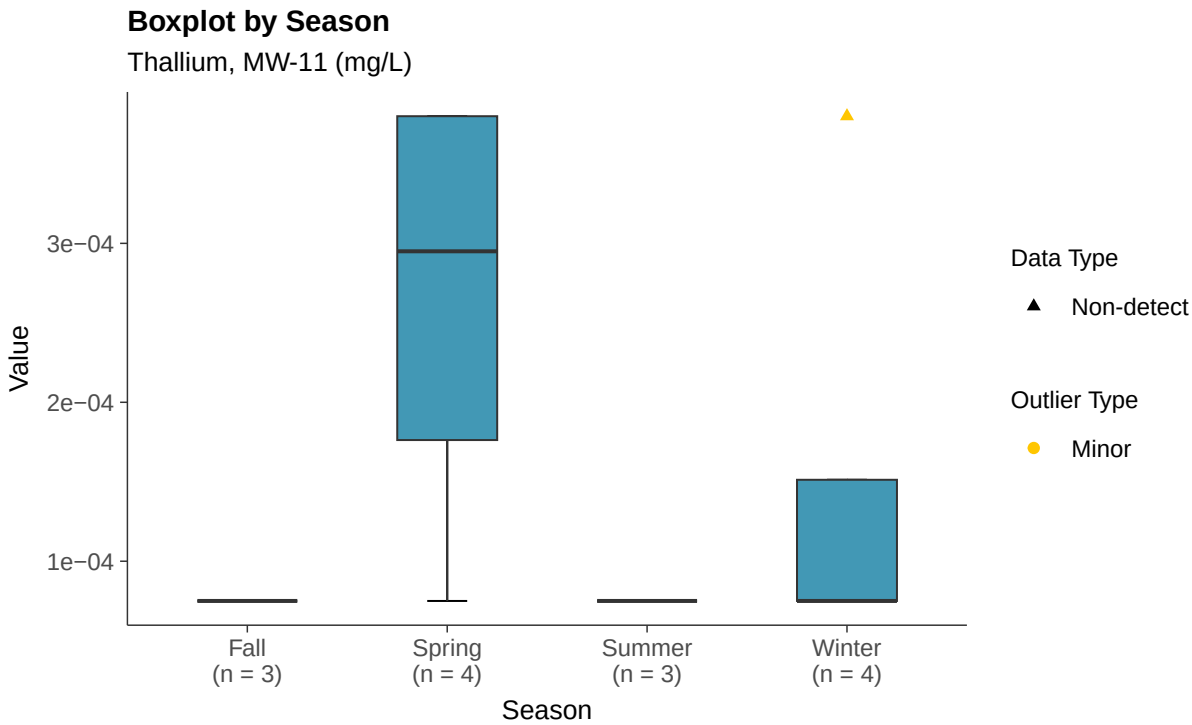
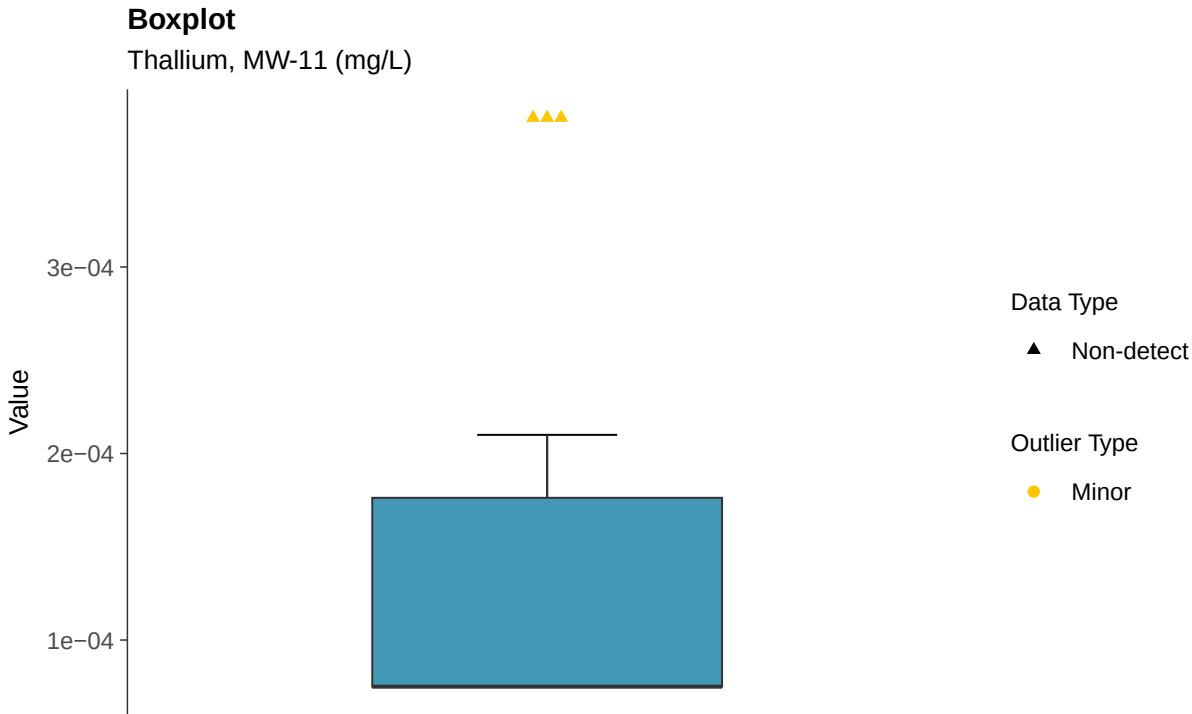


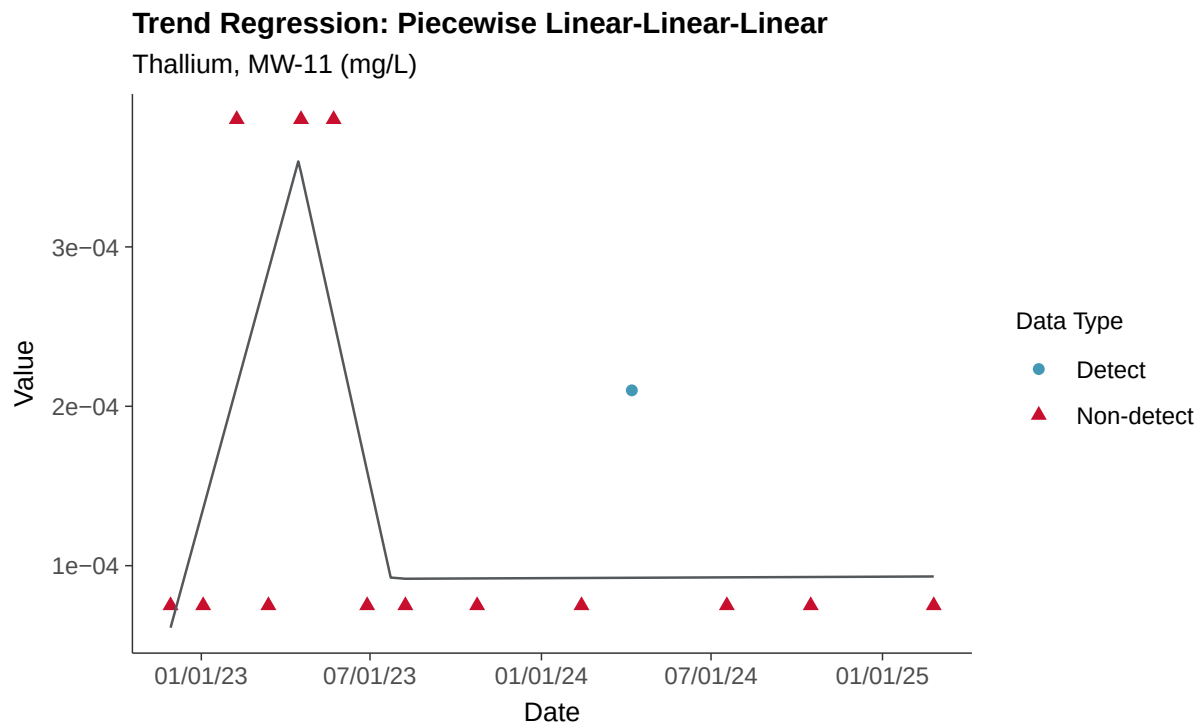
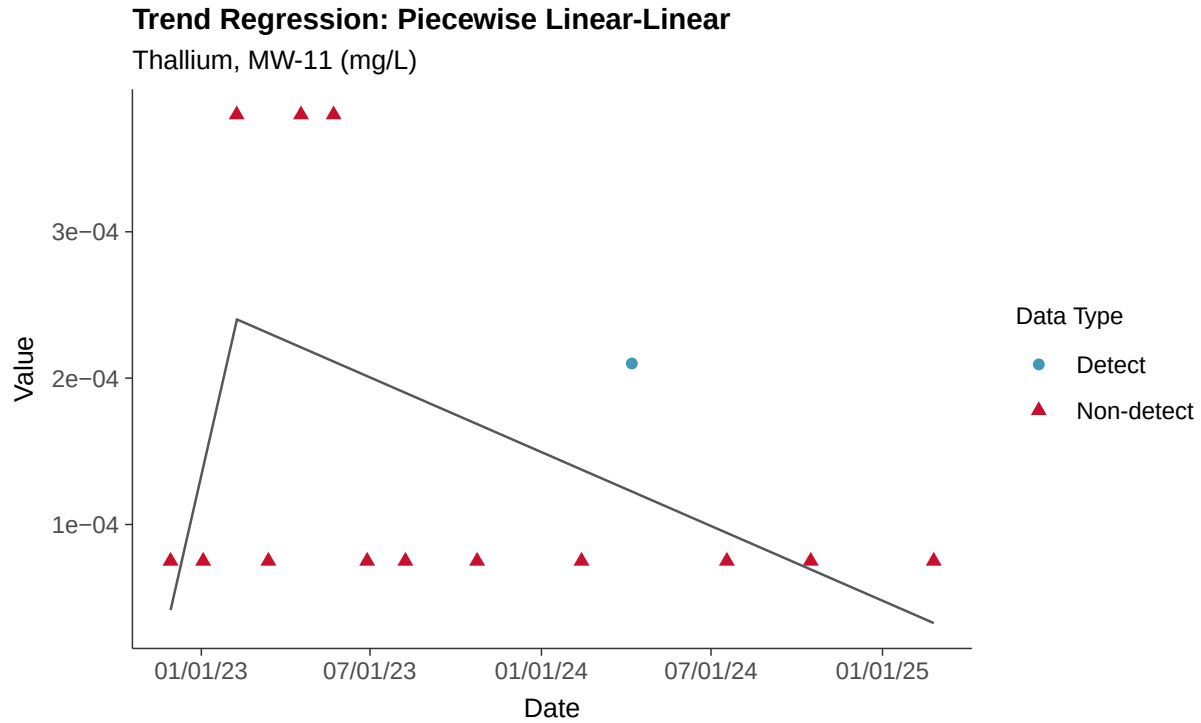


Appendix IV: Thallium, MW-11

ID: 21_2_4_125



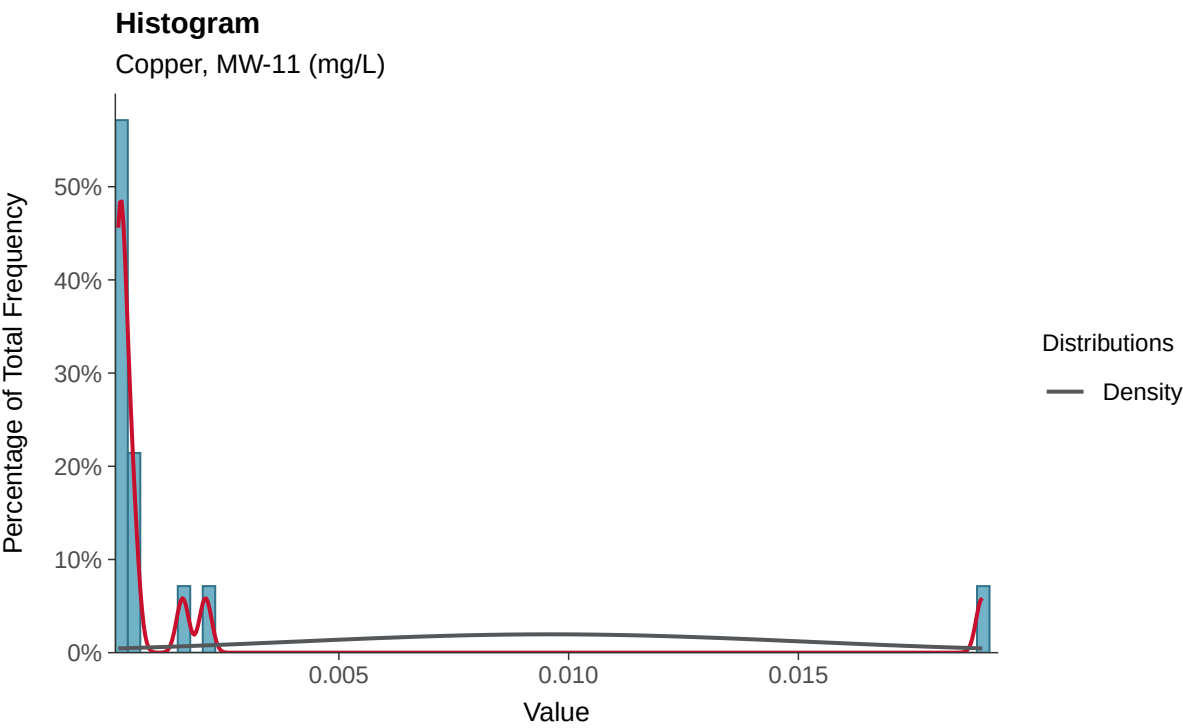
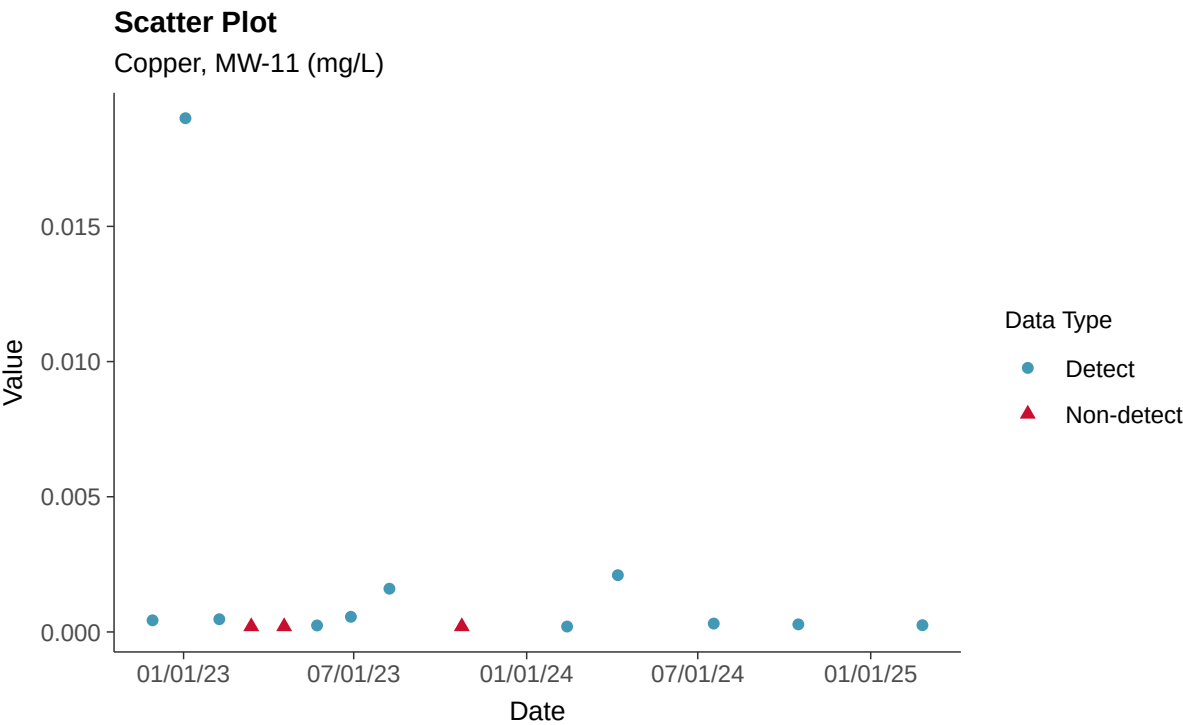


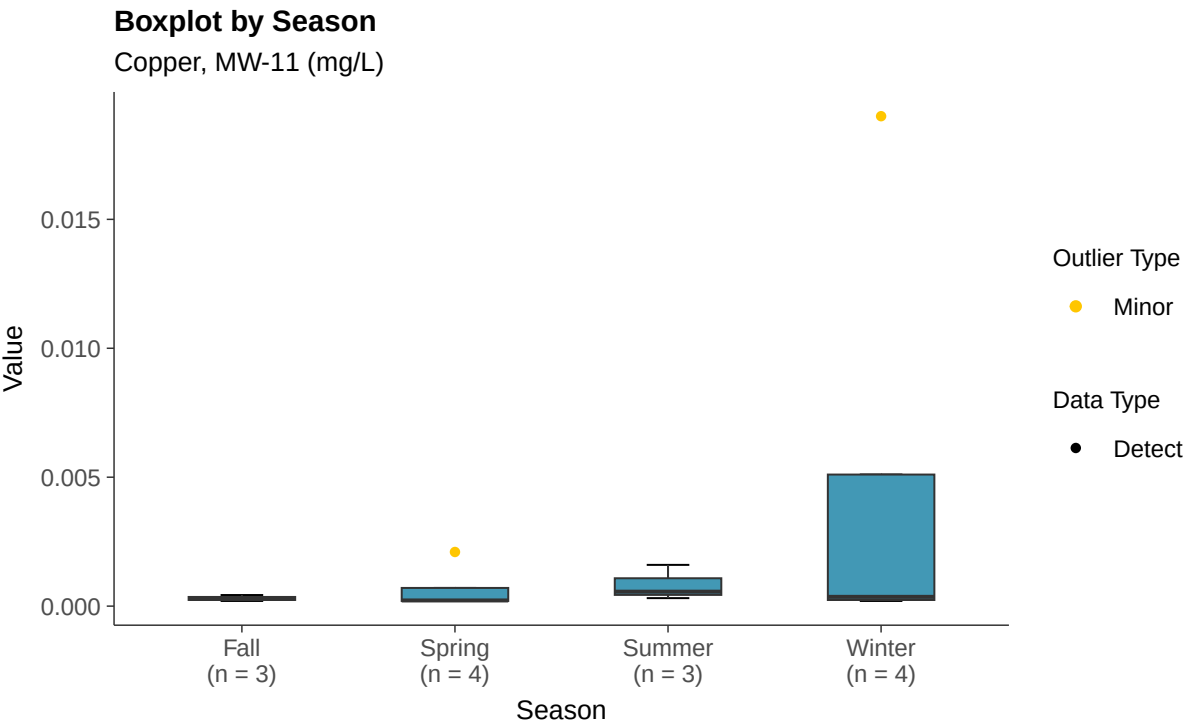
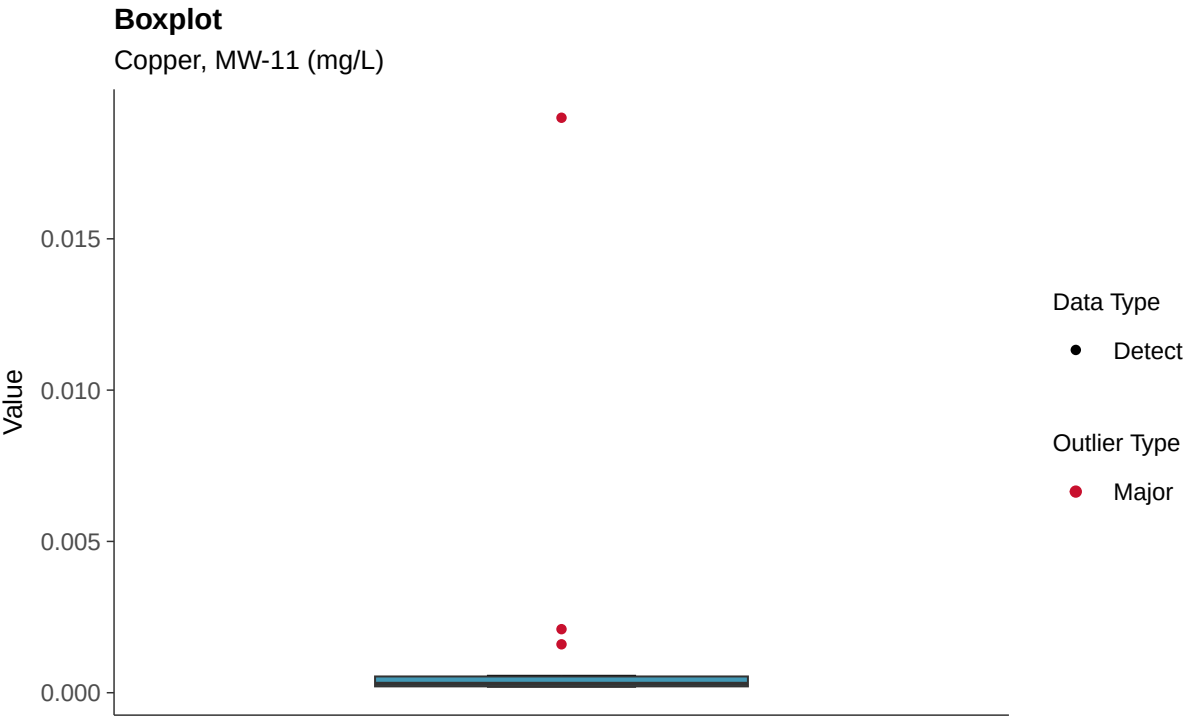


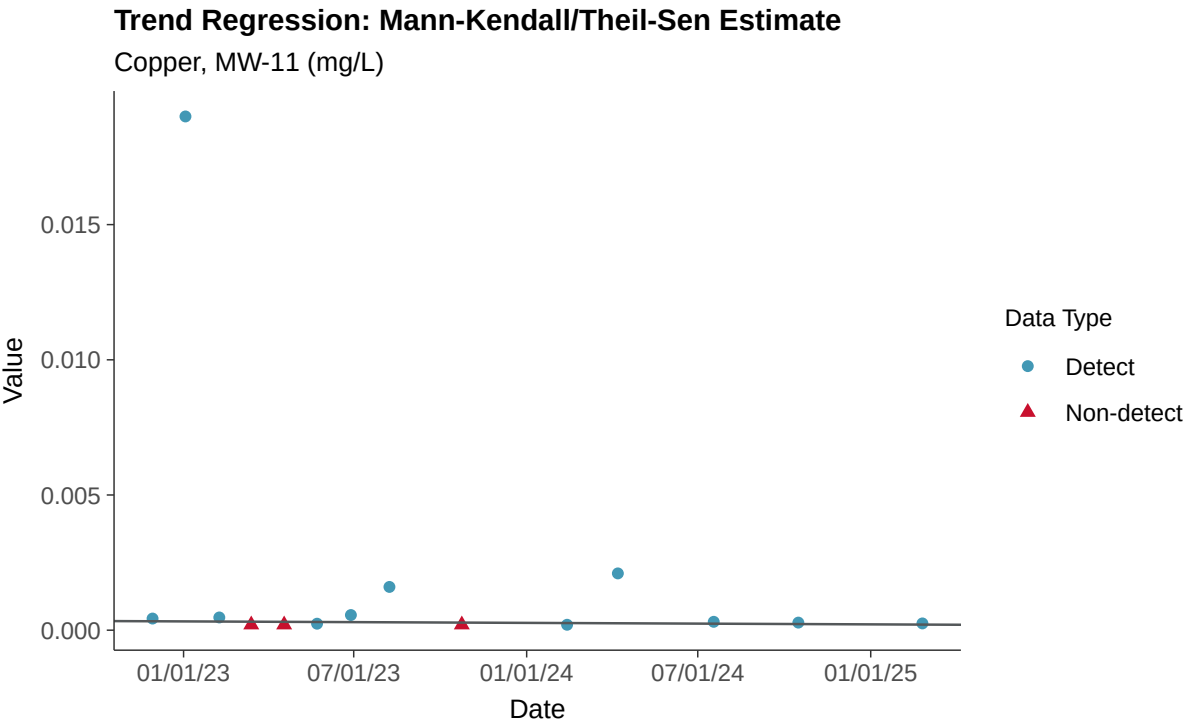
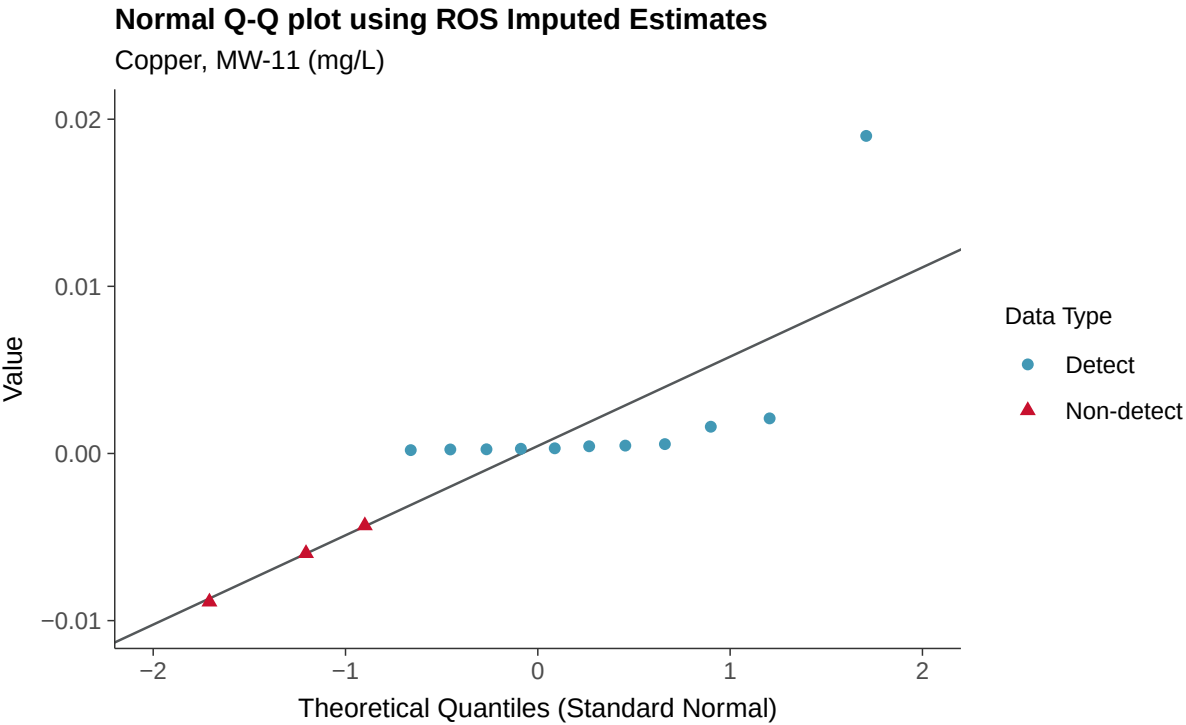


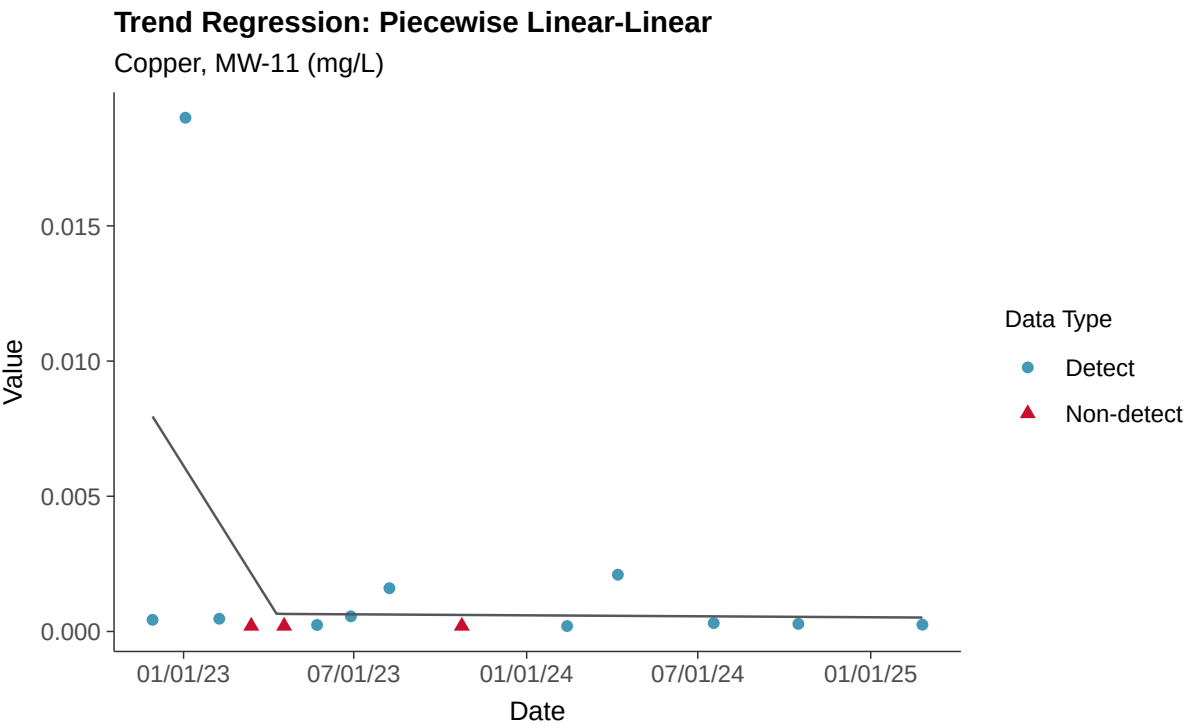
Part 115: Copper, MW-11

ID: 21_2_5_111





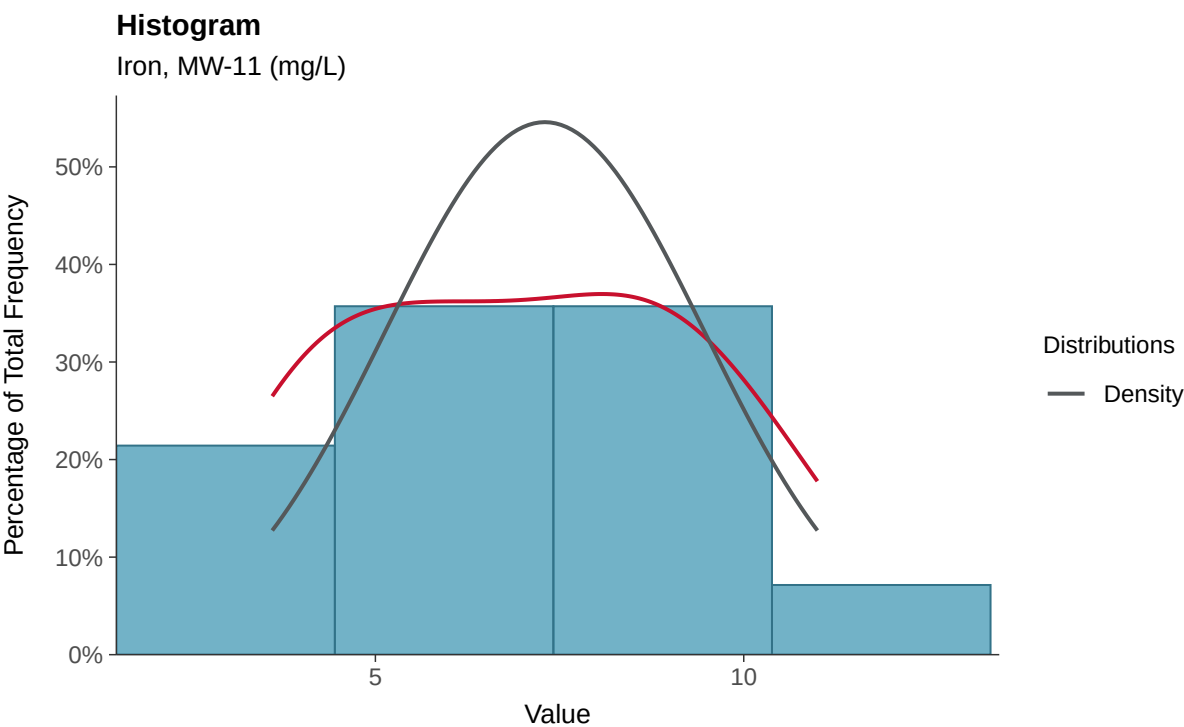
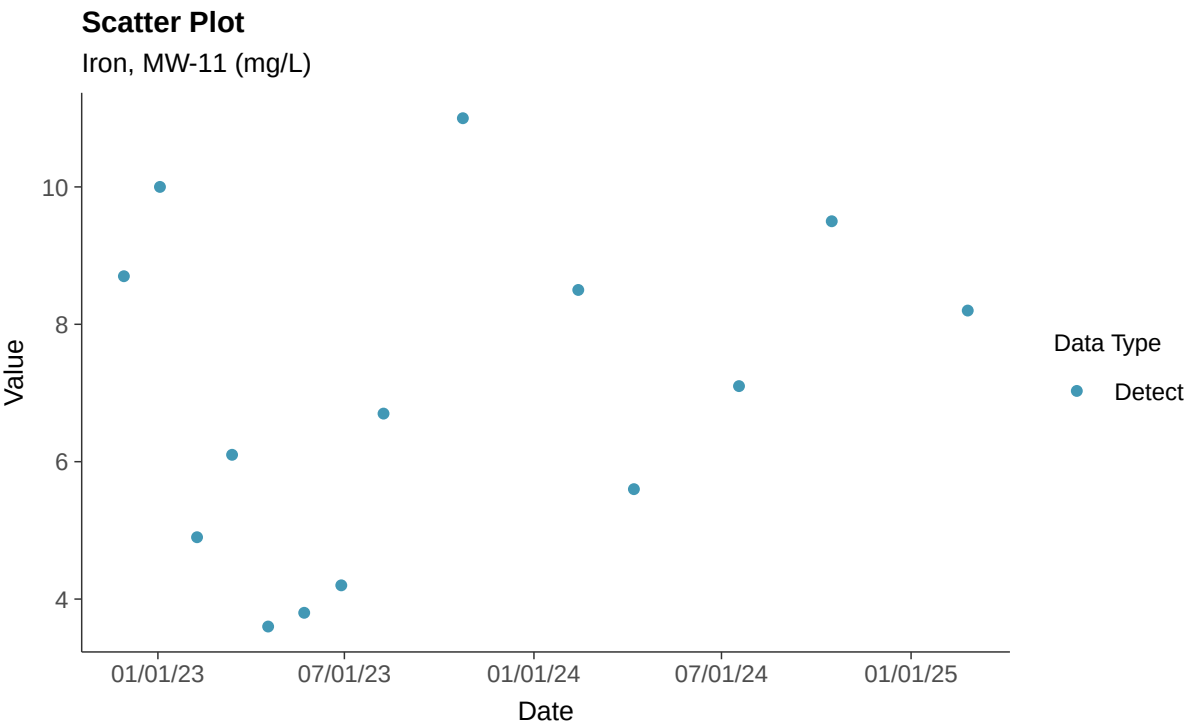


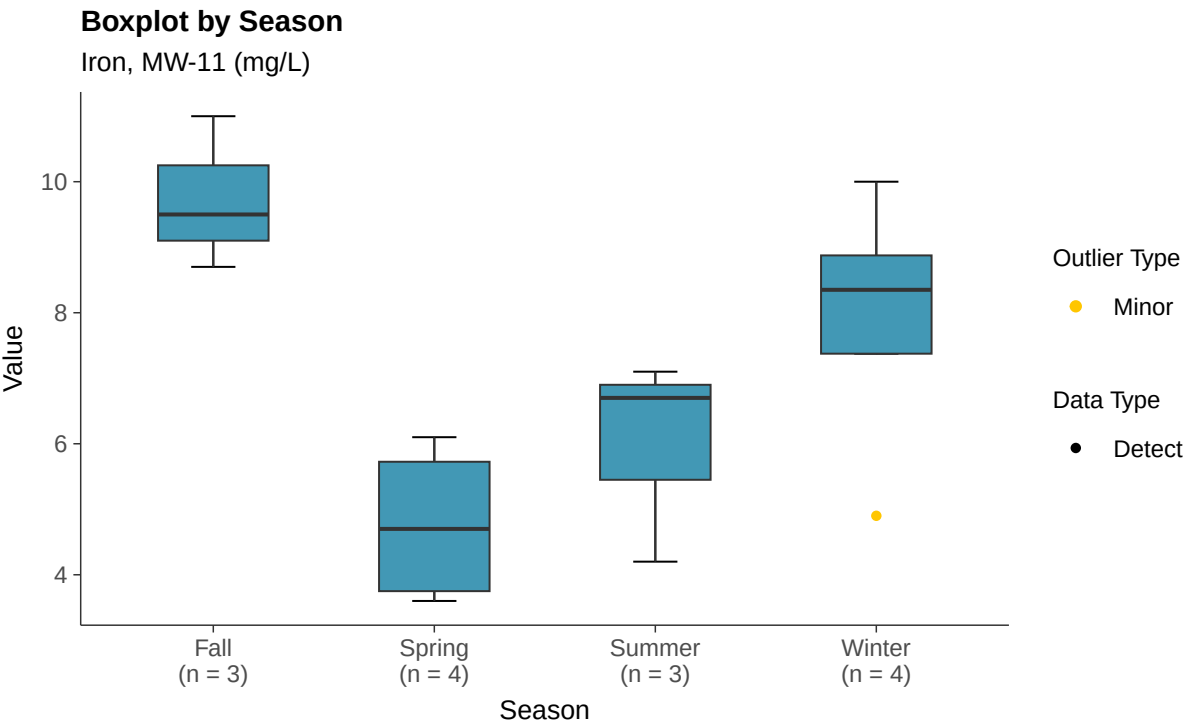
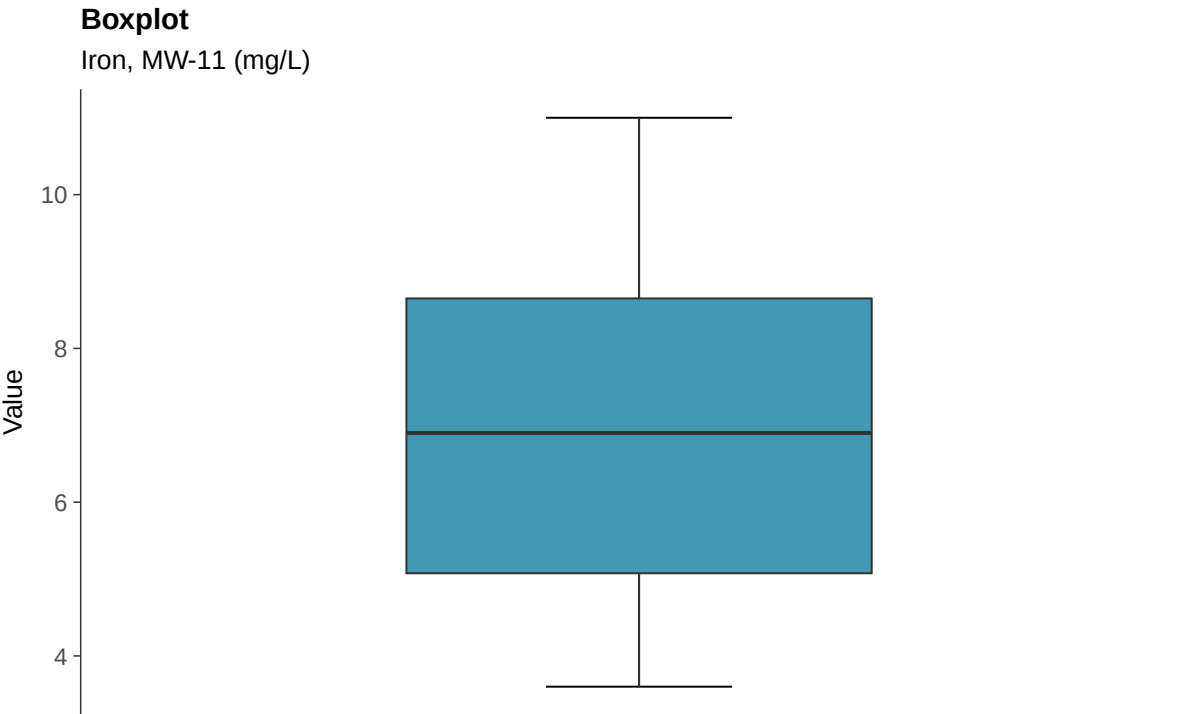


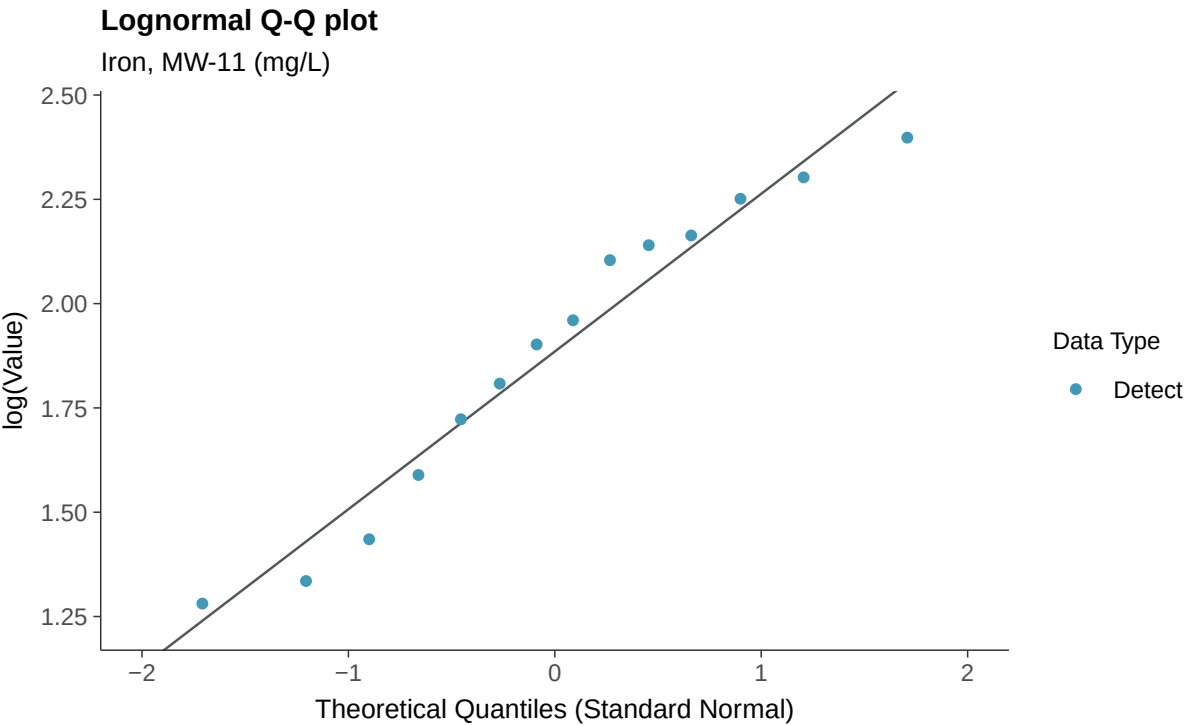
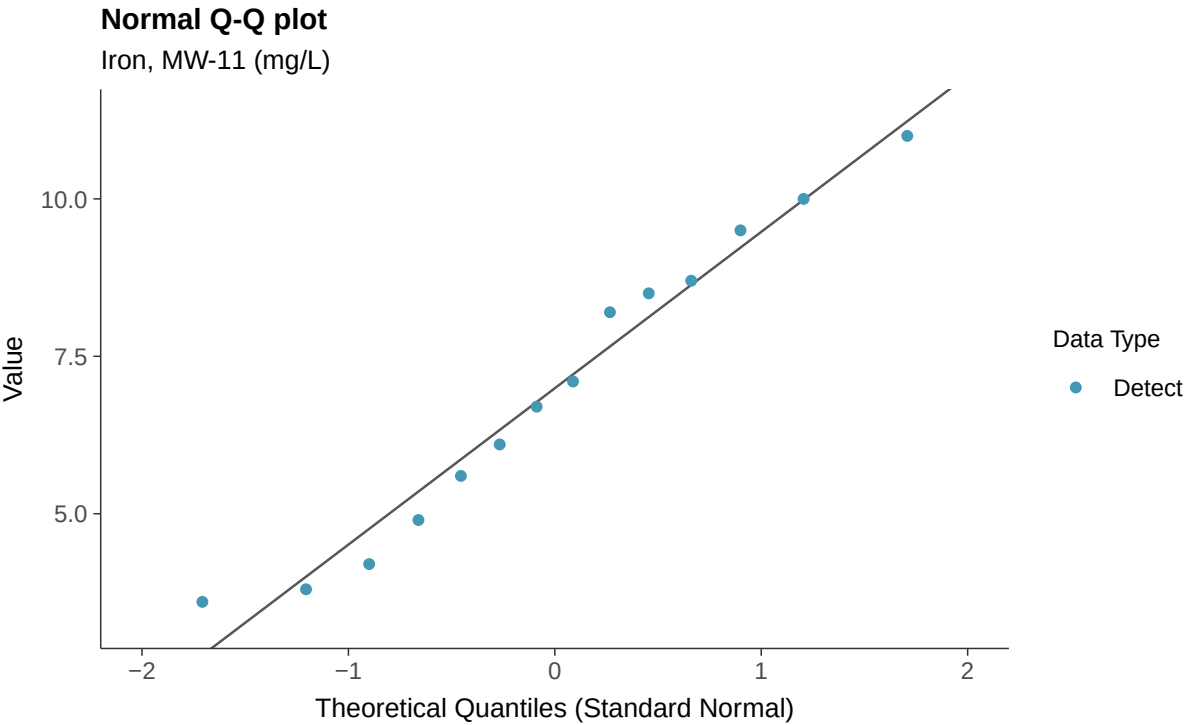


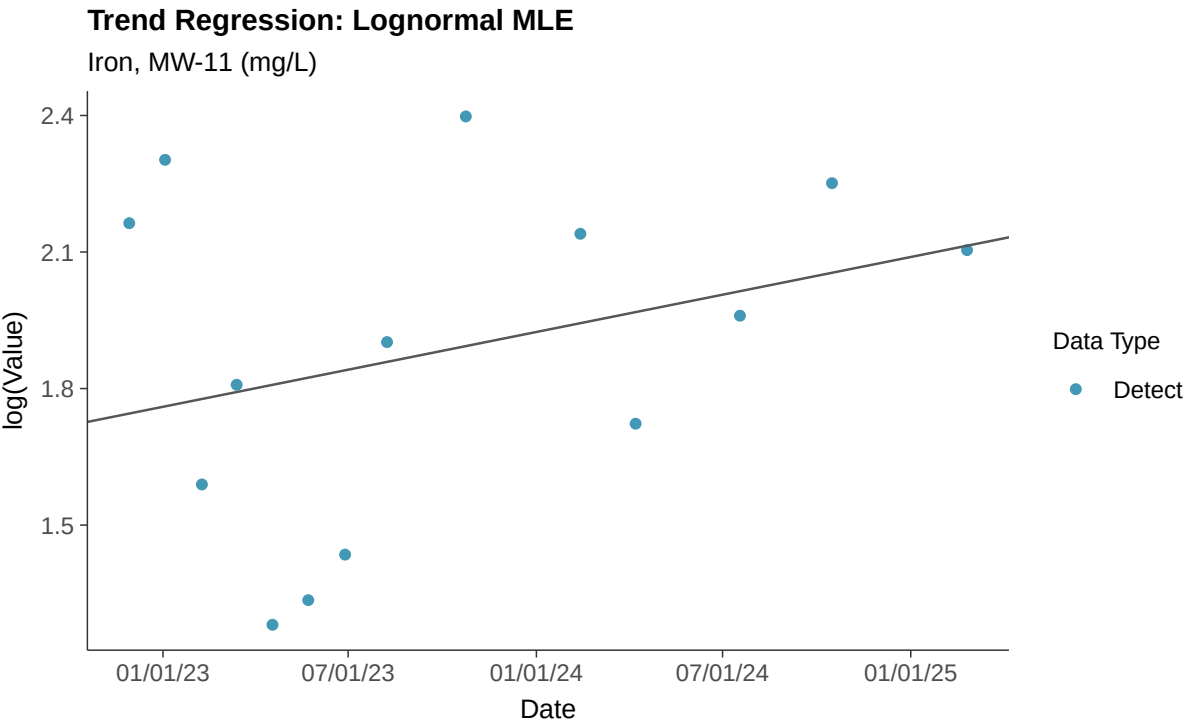
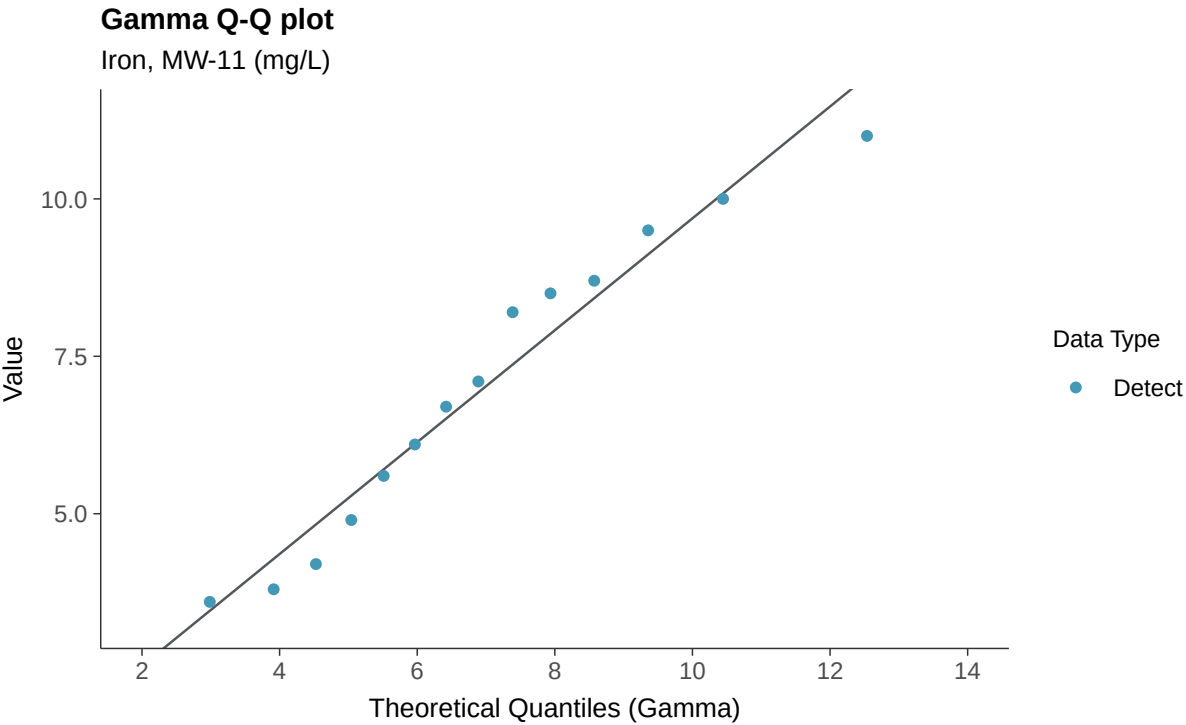
Part 115: Iron, MW-11

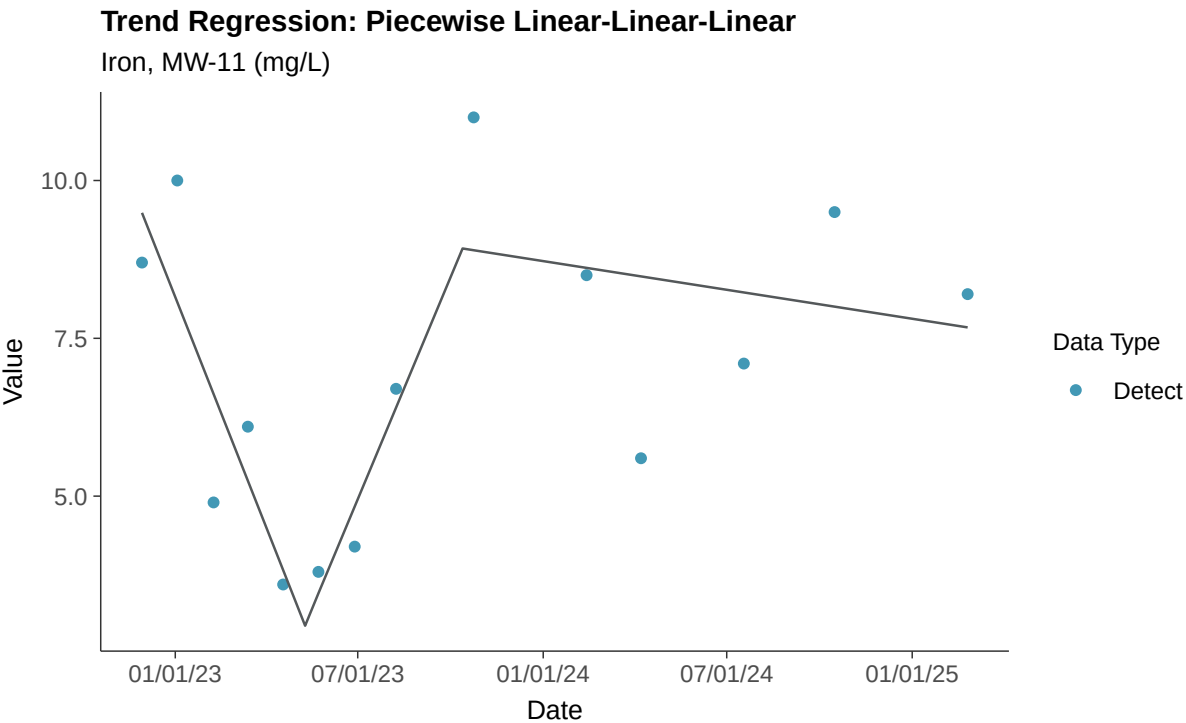
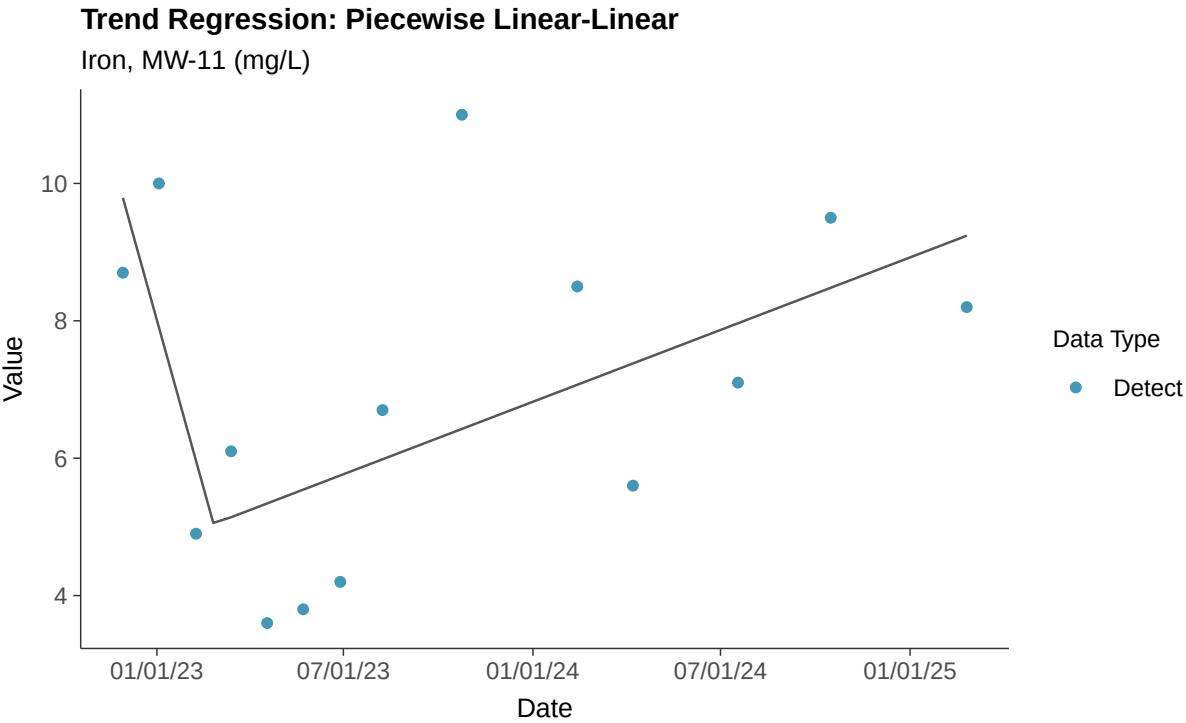
ID: 21_2_5_114







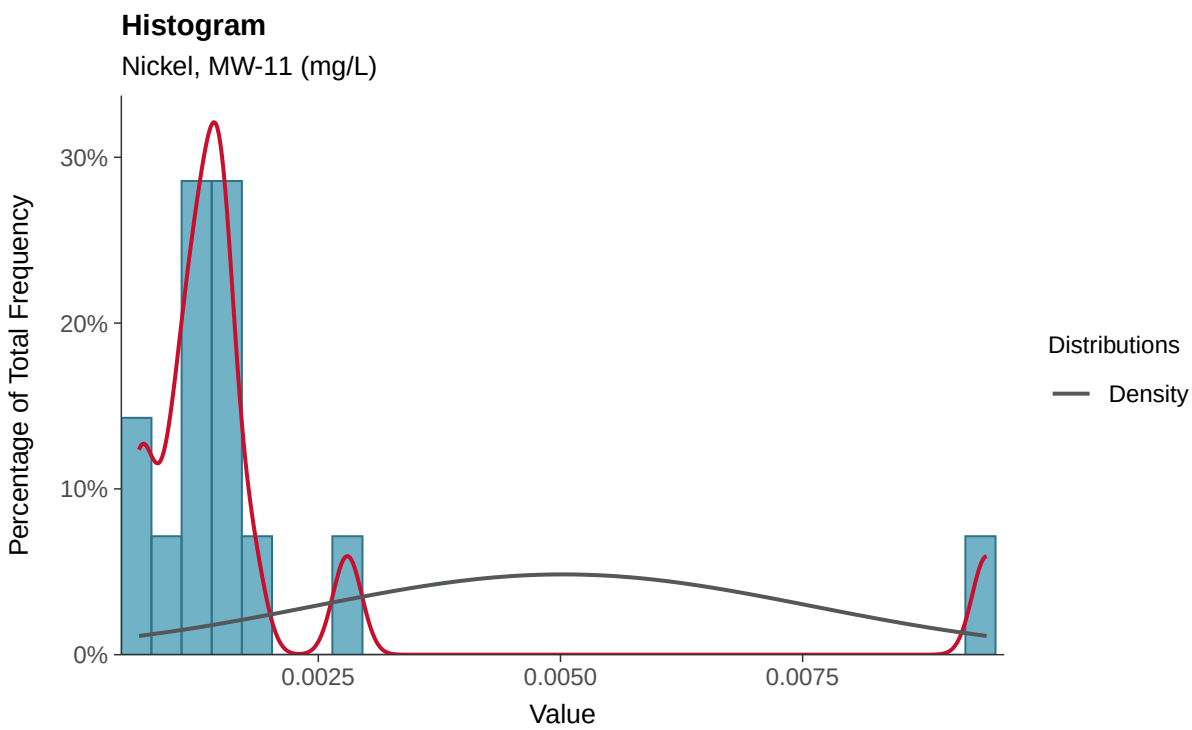
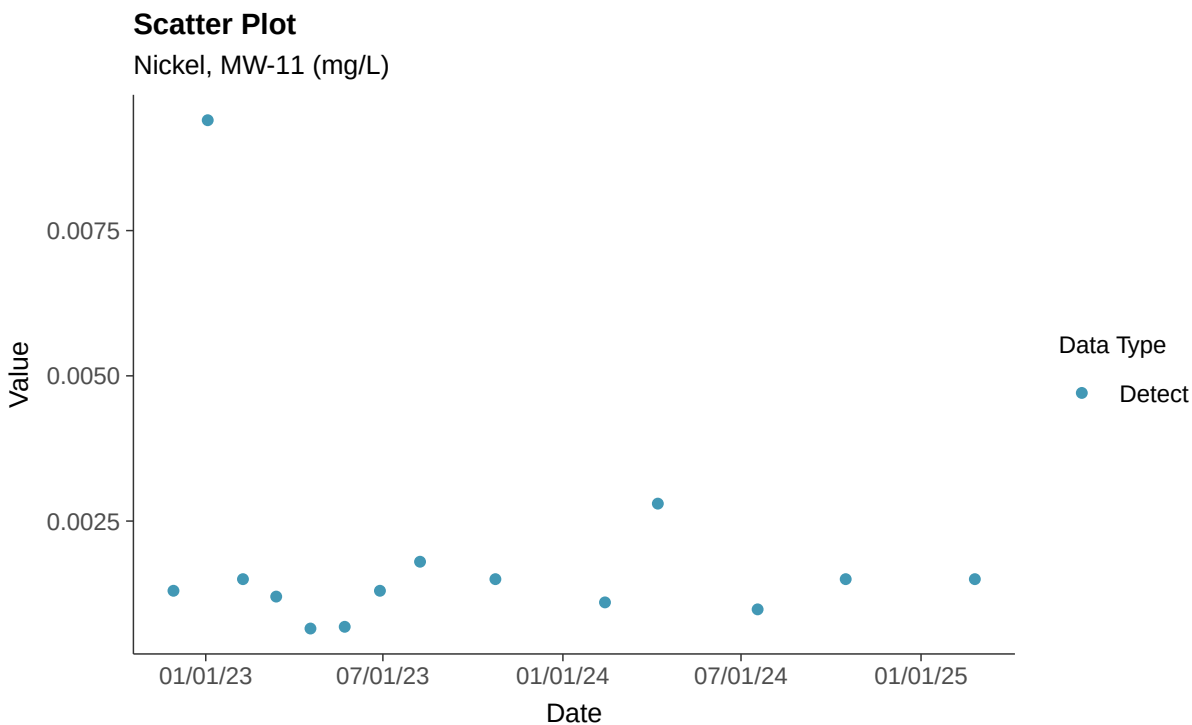


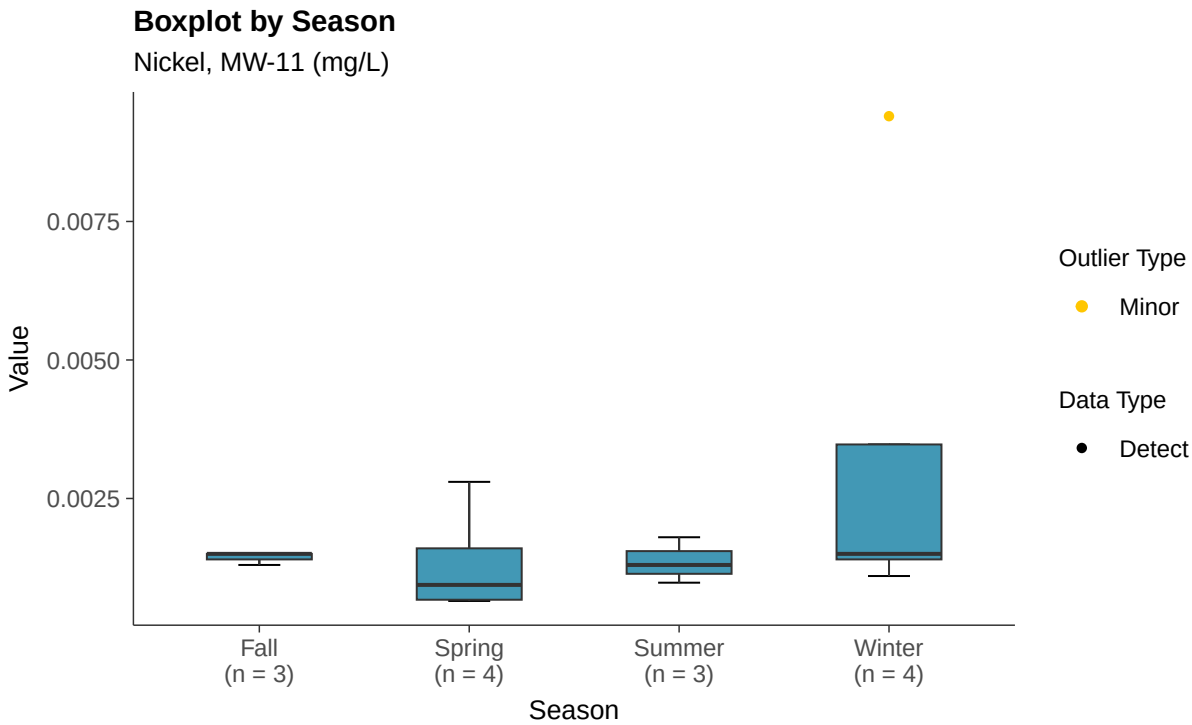
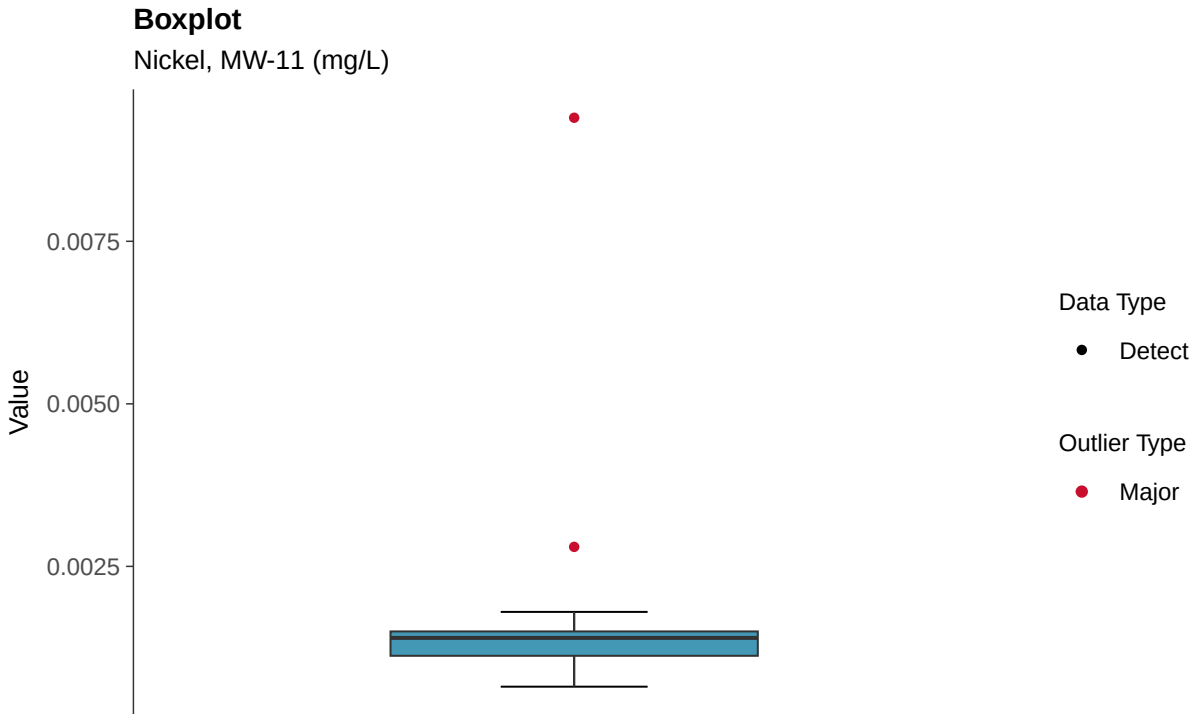


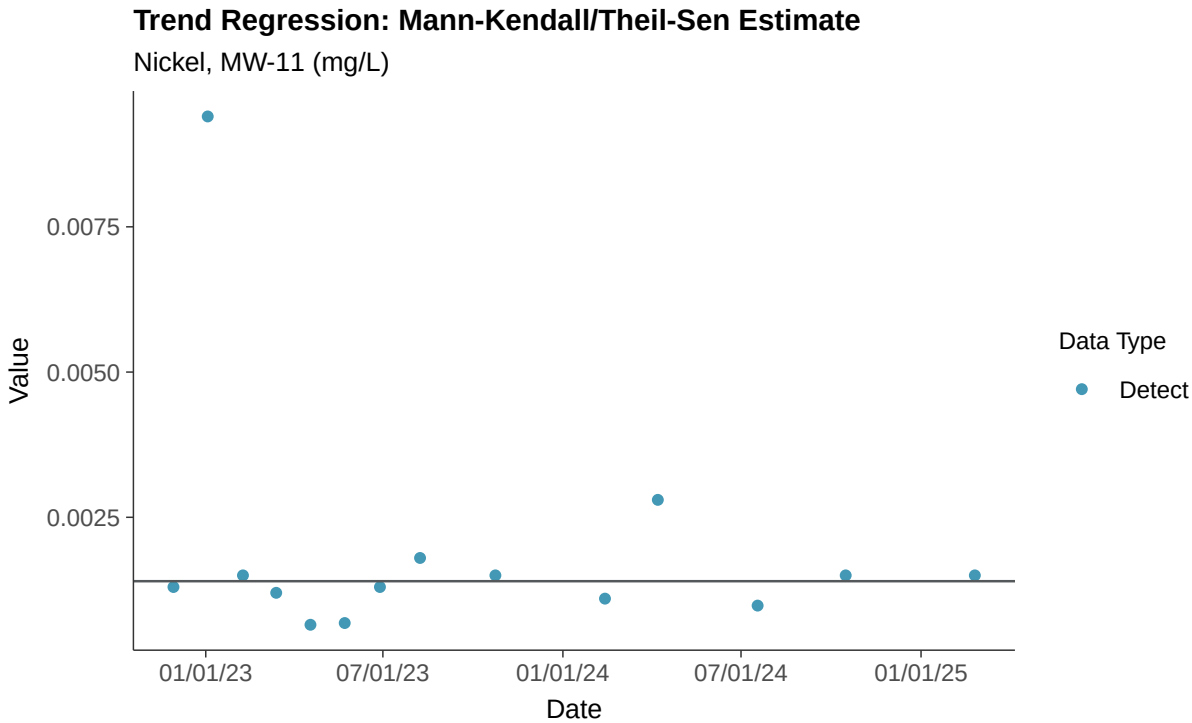
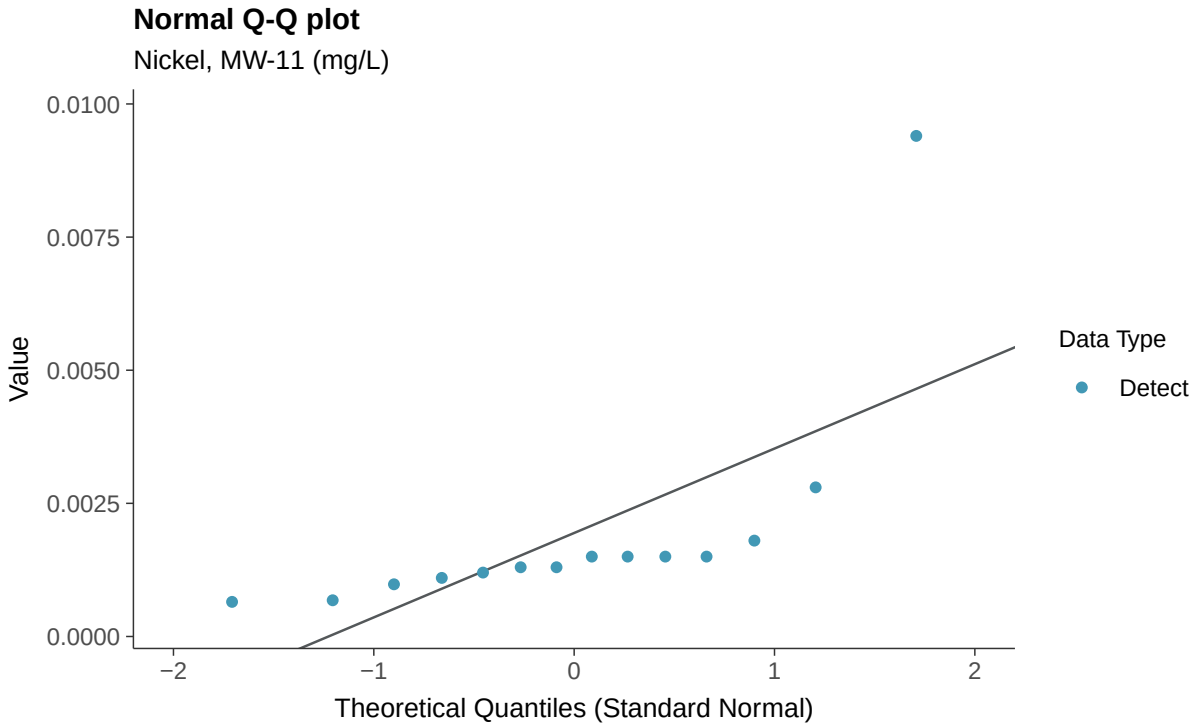


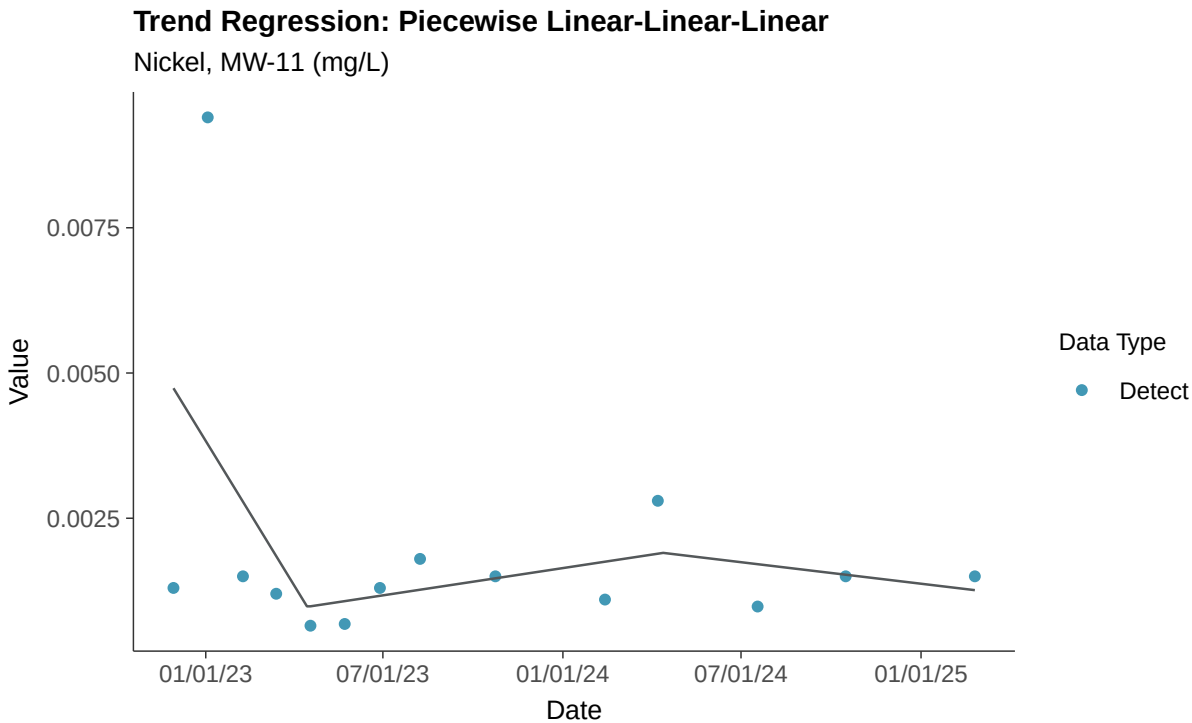
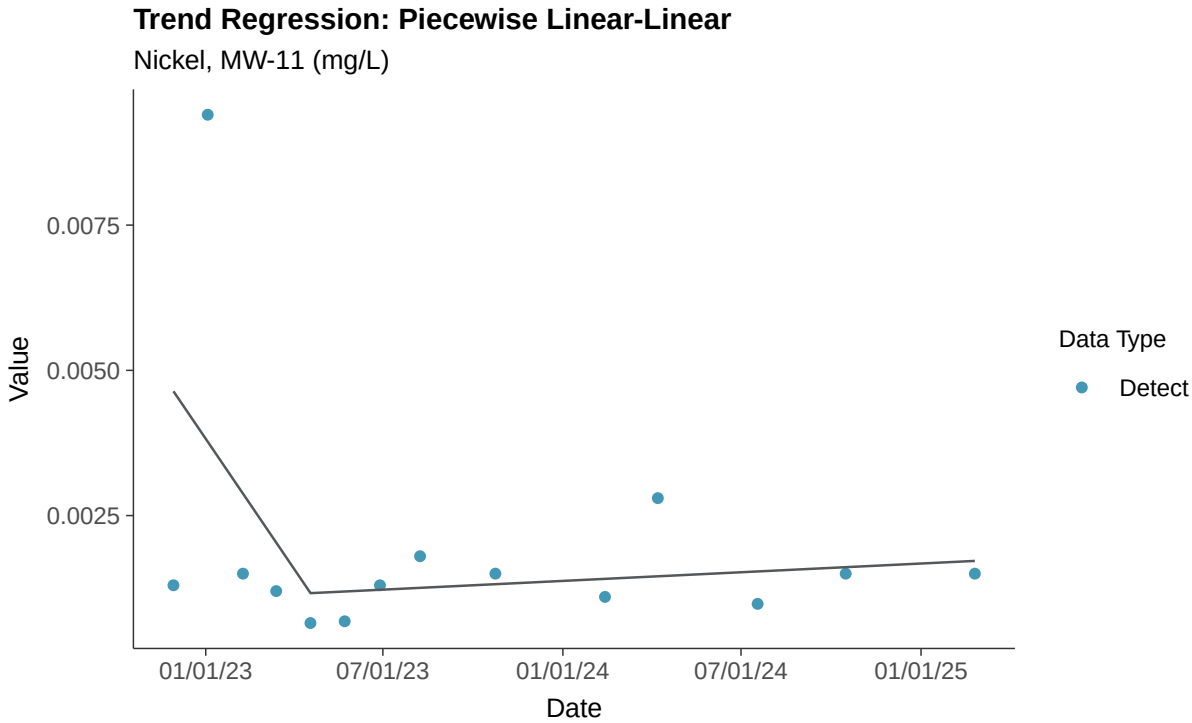
Part 115: Nickel, MW-11

ID: 21_2_5_119





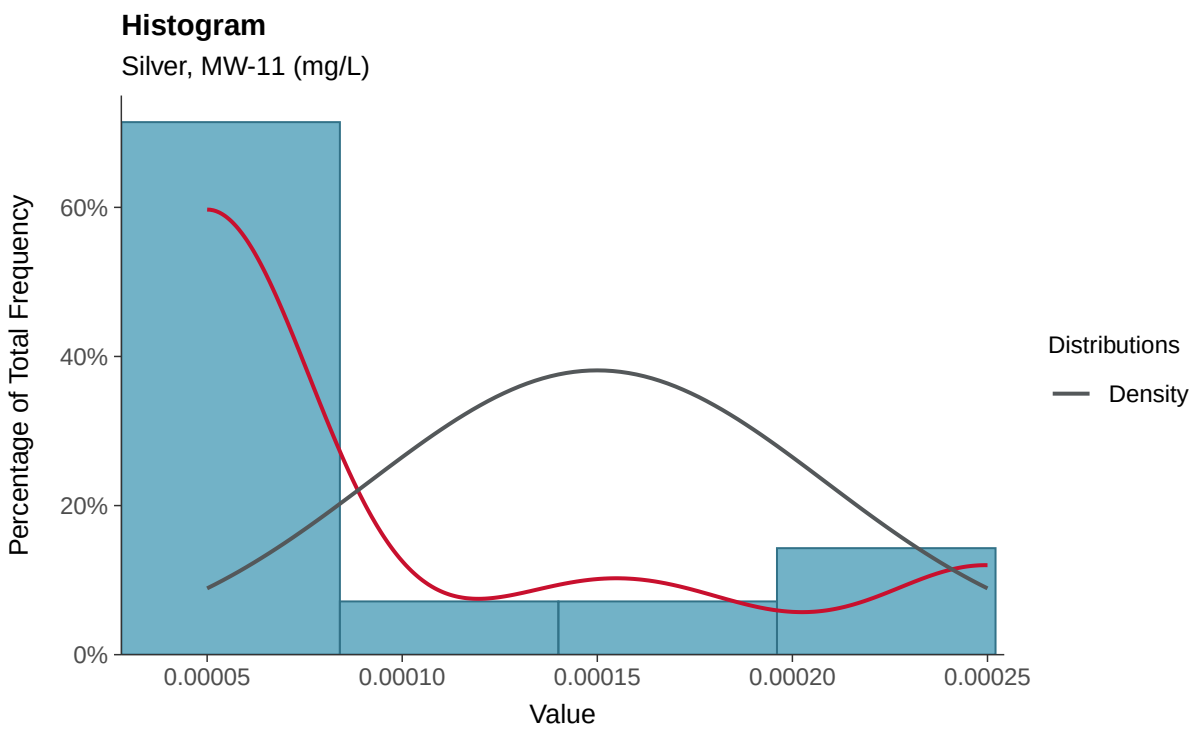
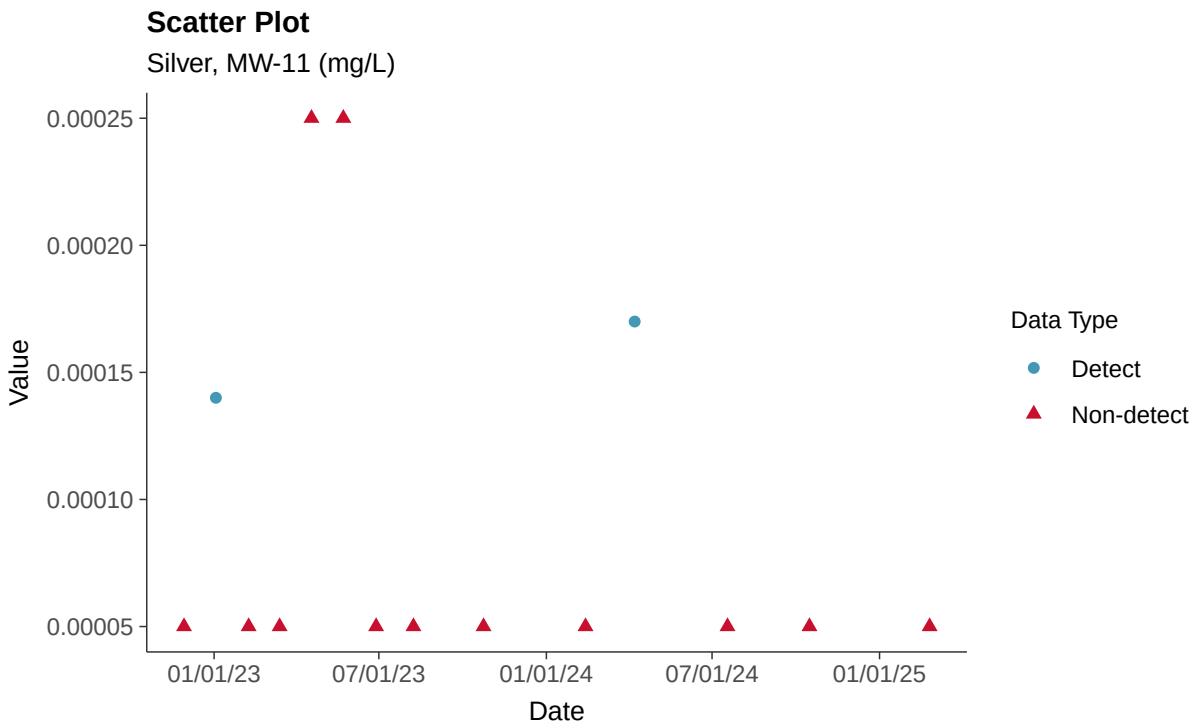


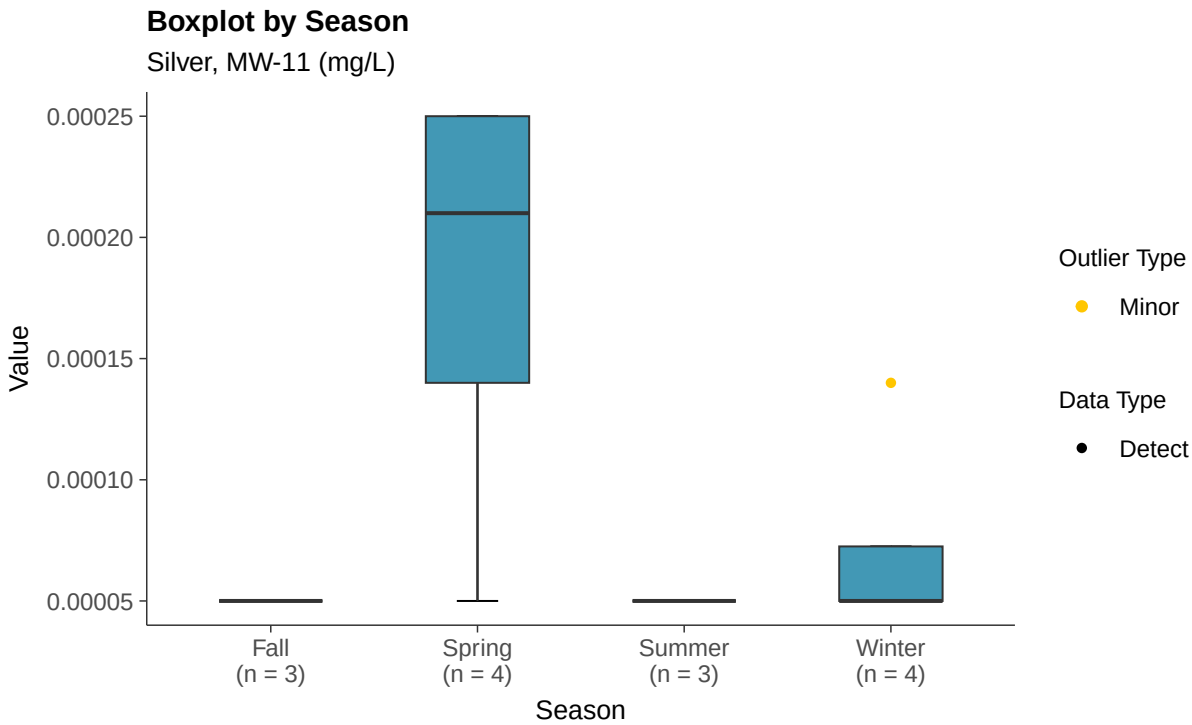
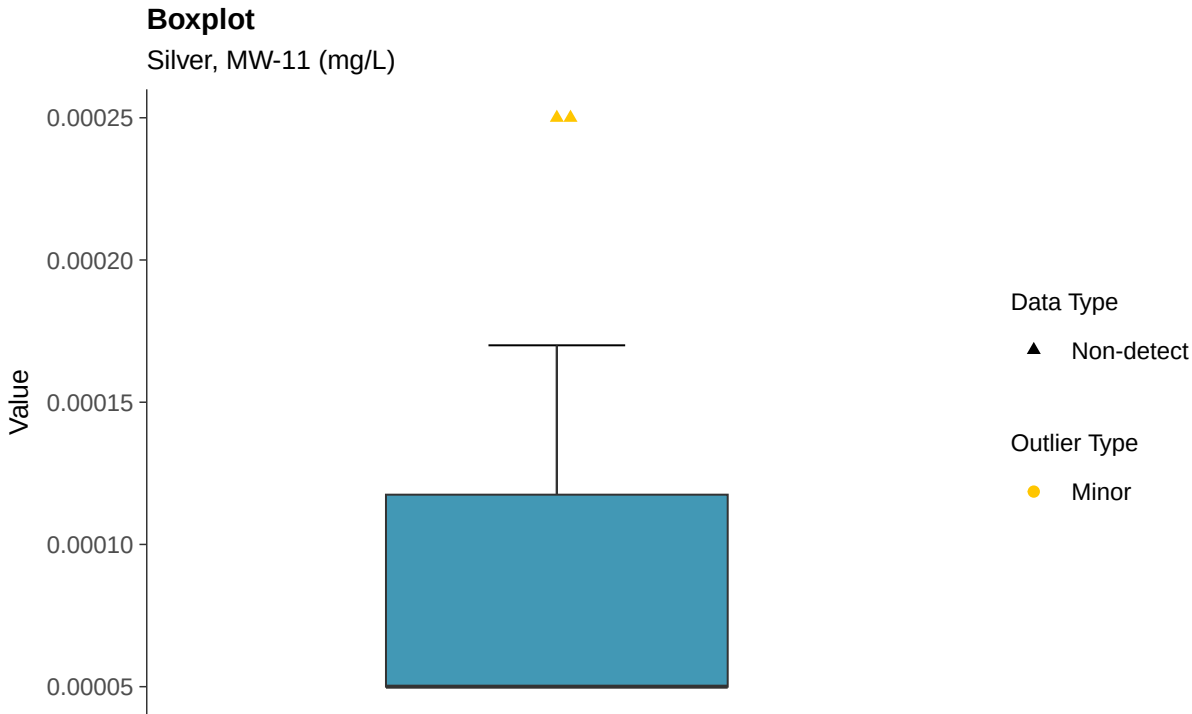




Part 115: Silver, MW-11

ID: 21_2_5_123

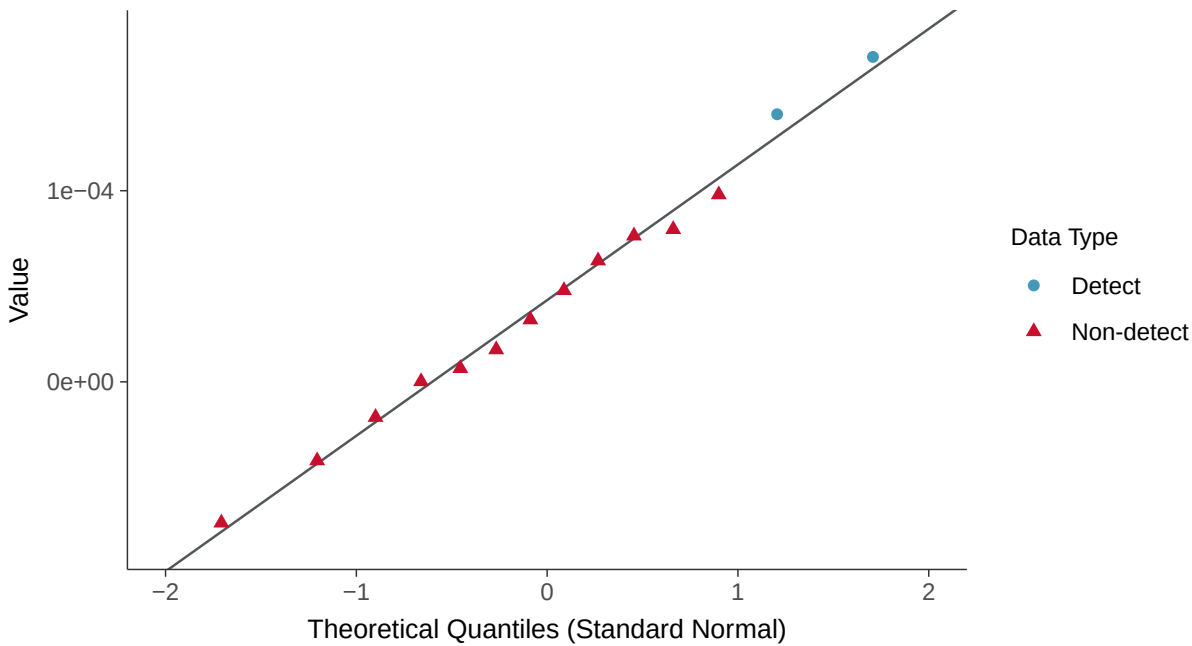






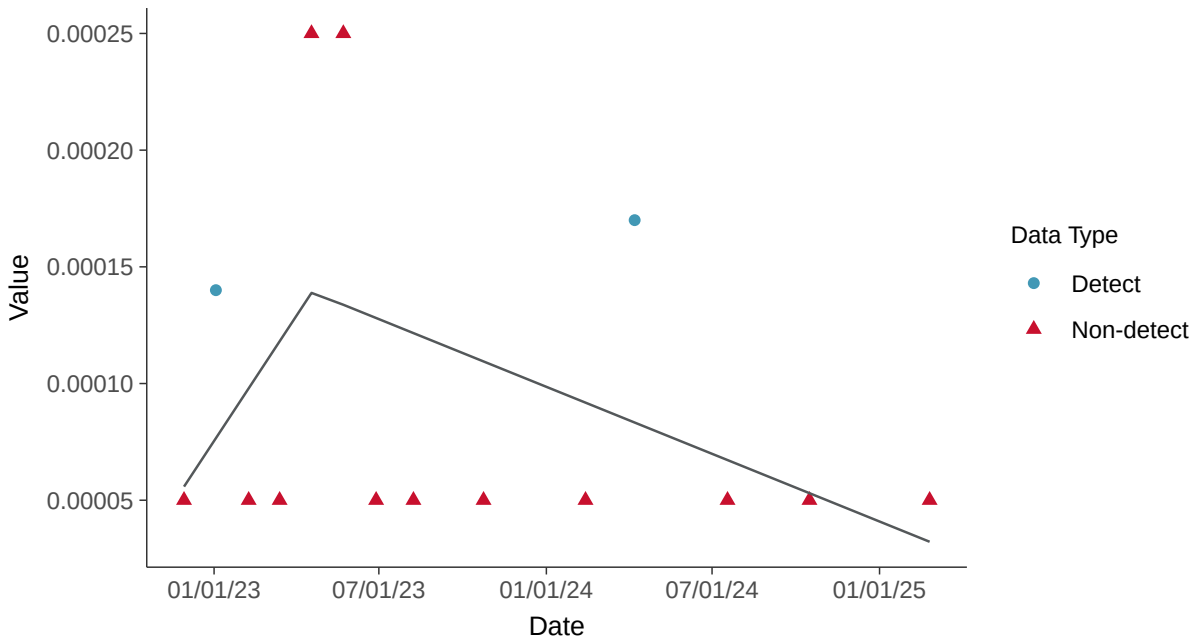
Normal Q-Q plot using ROS Imputed Estimates

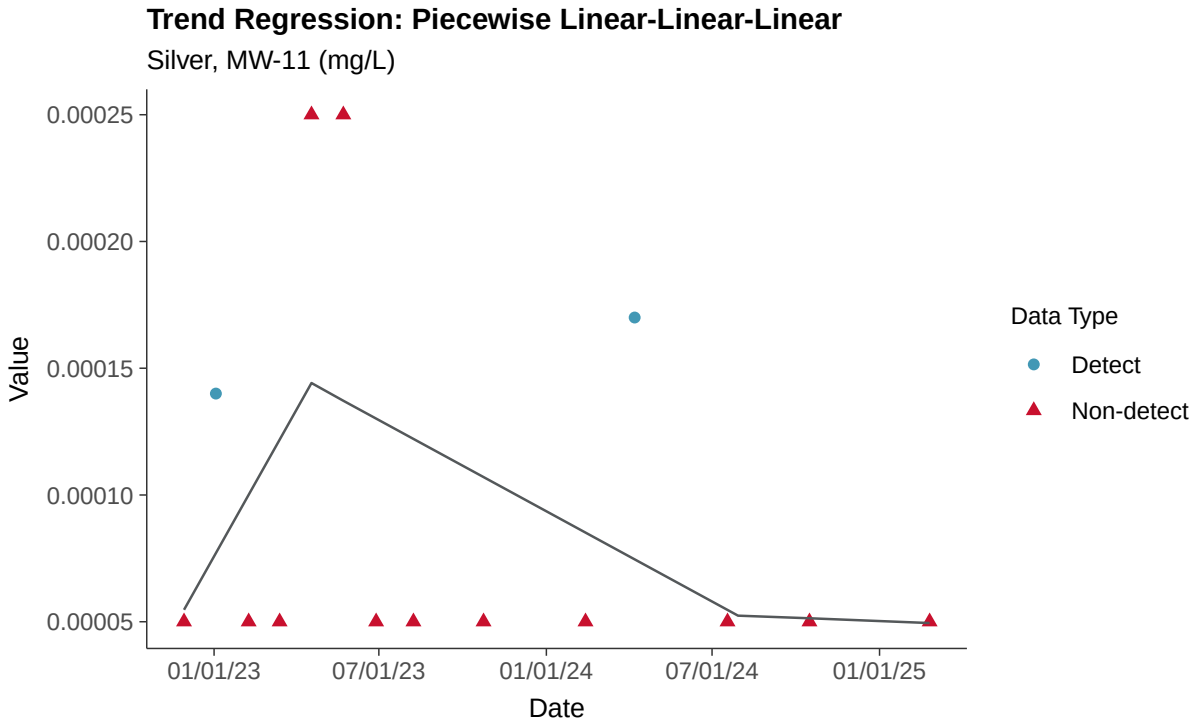
Silver, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Silver, MW-11 (mg/L)

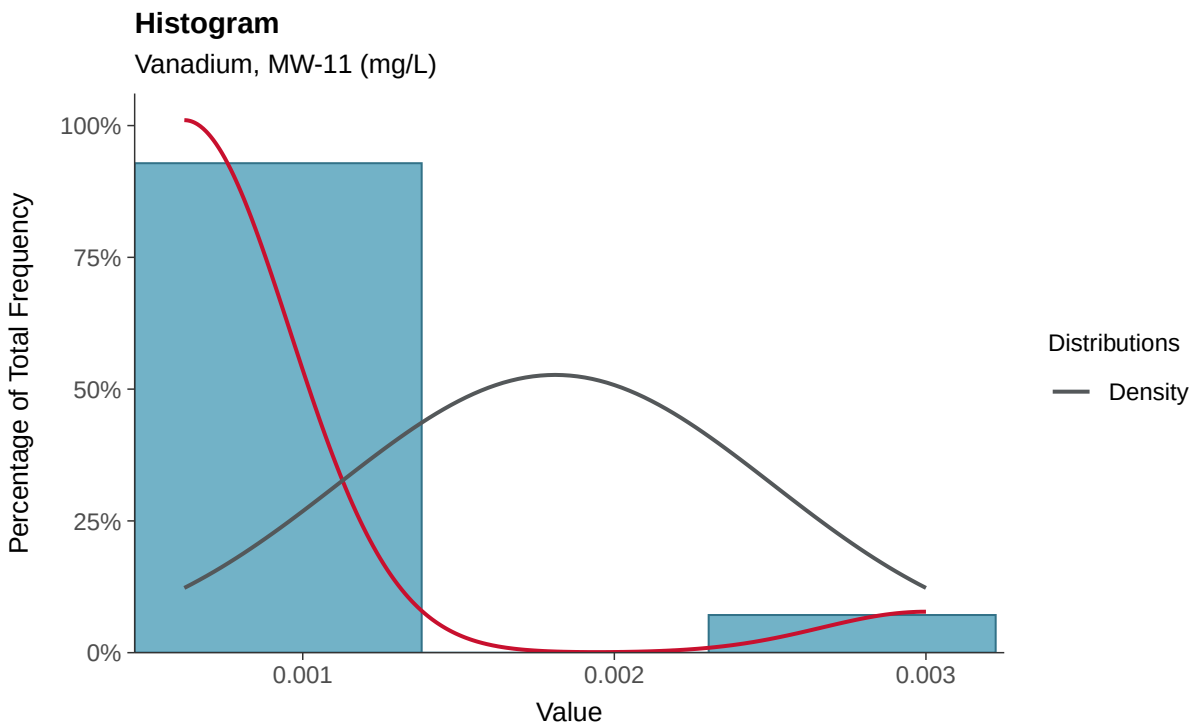
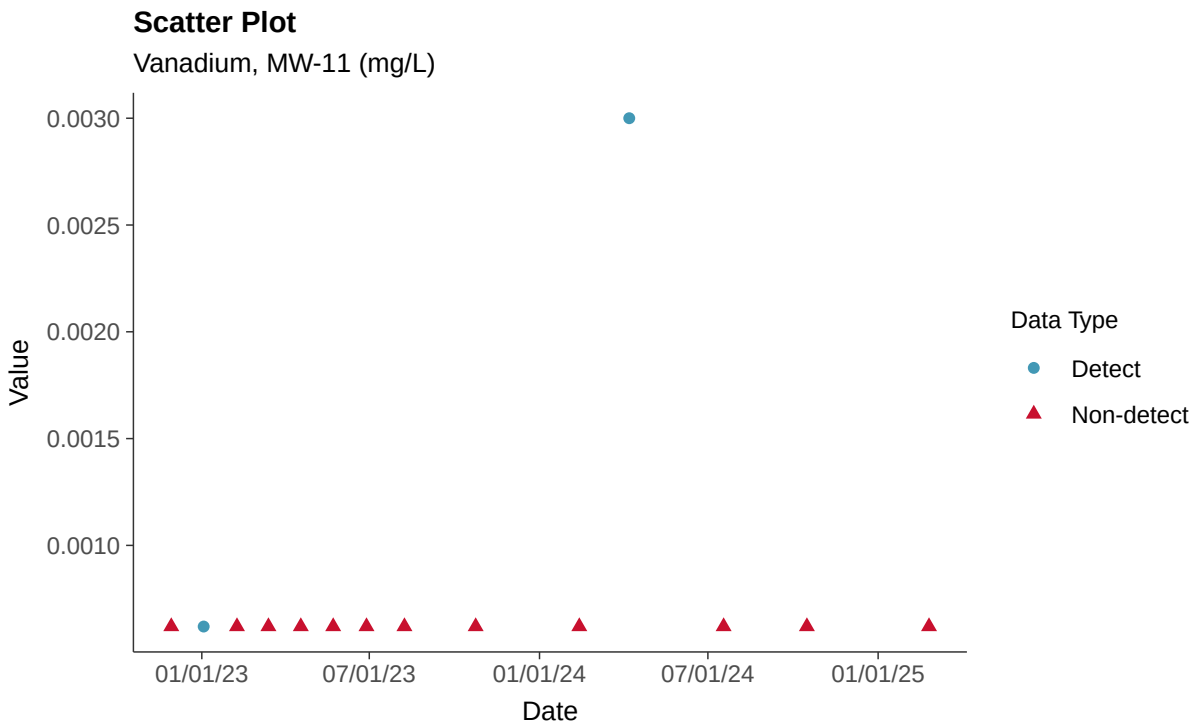


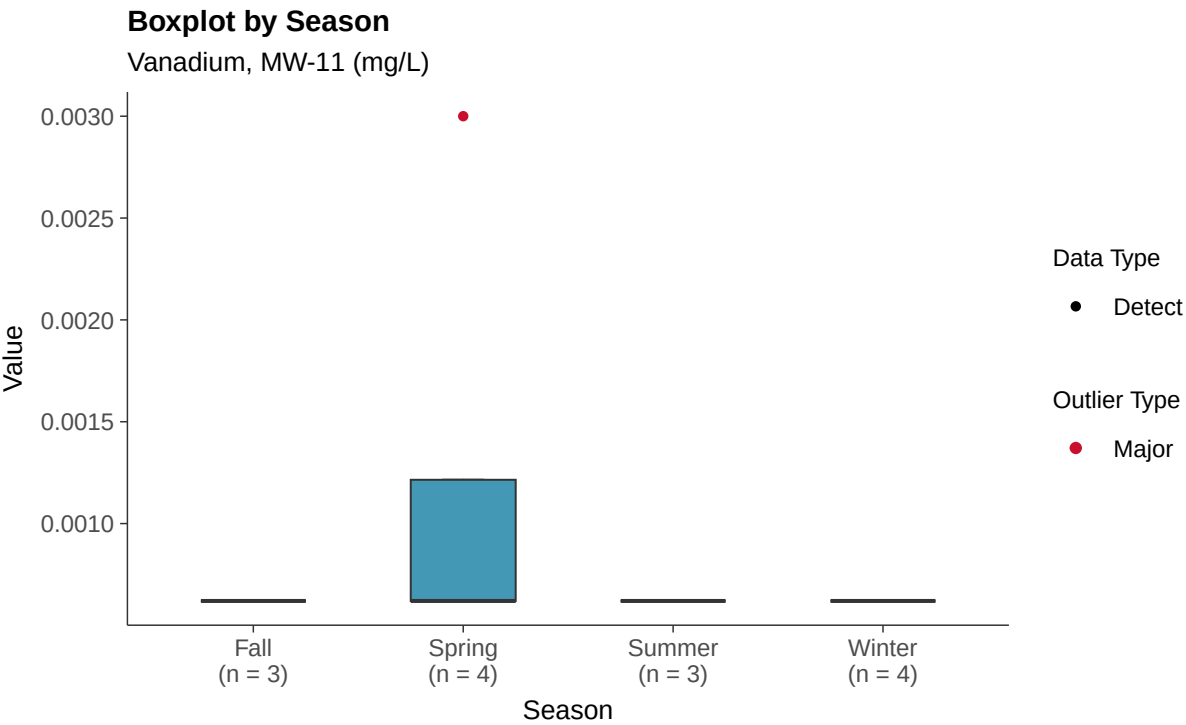
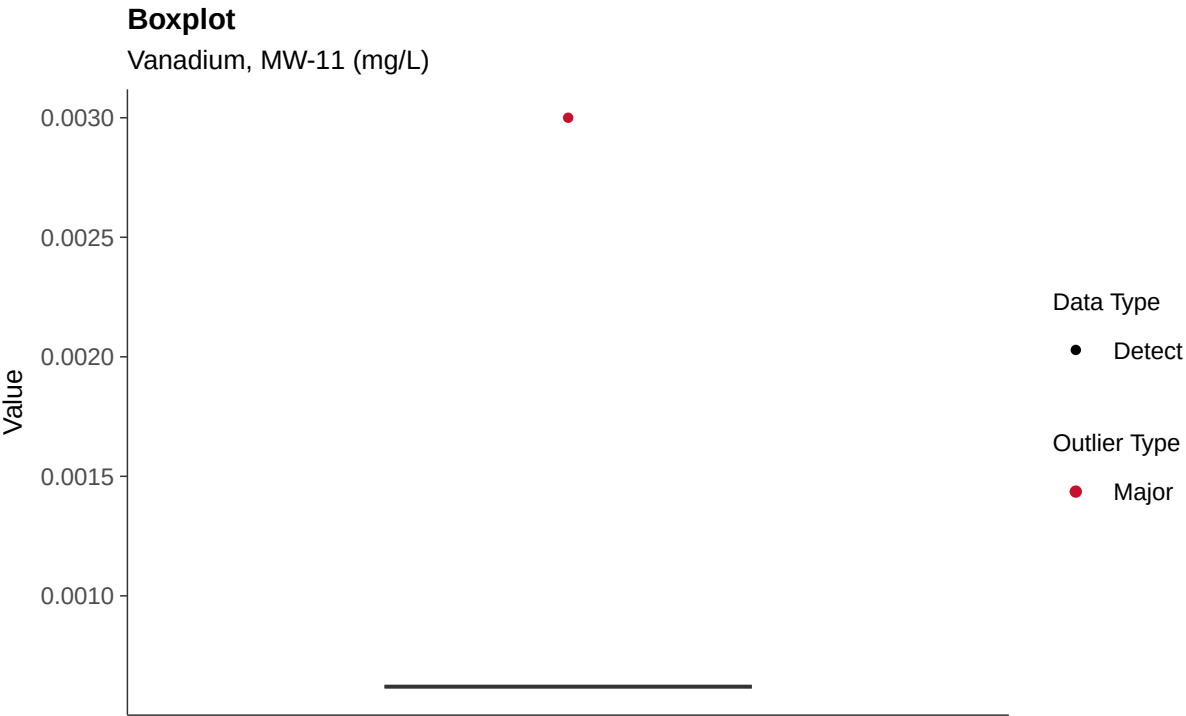


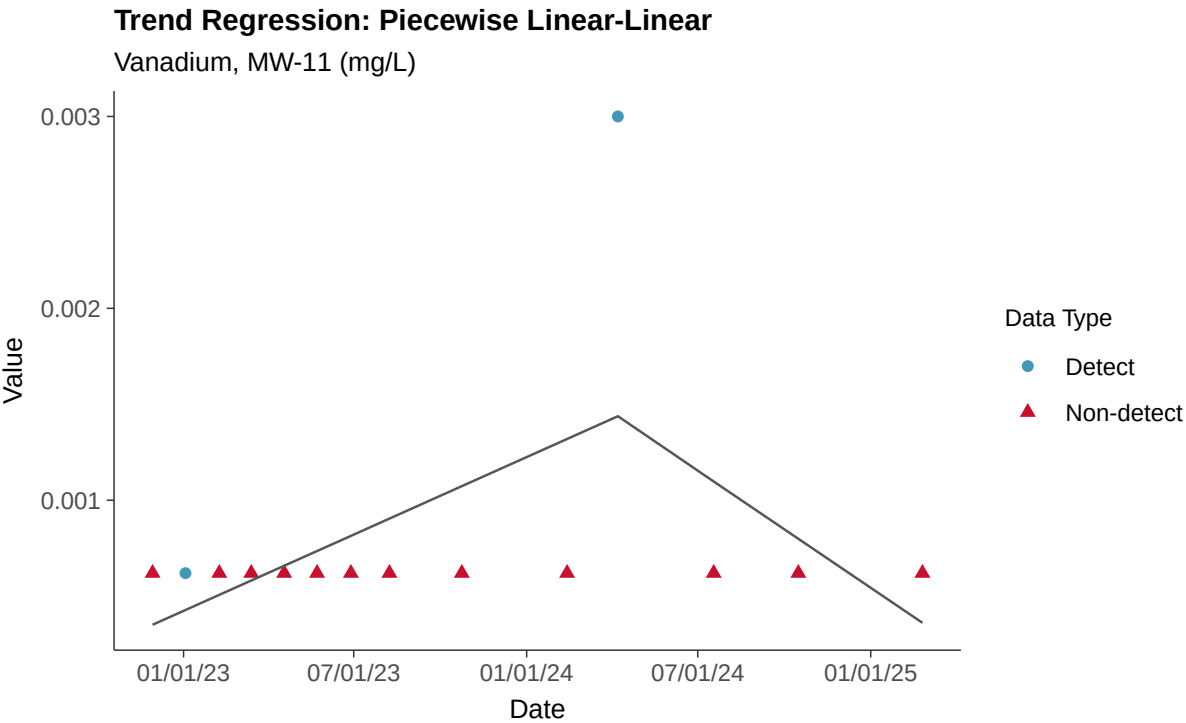
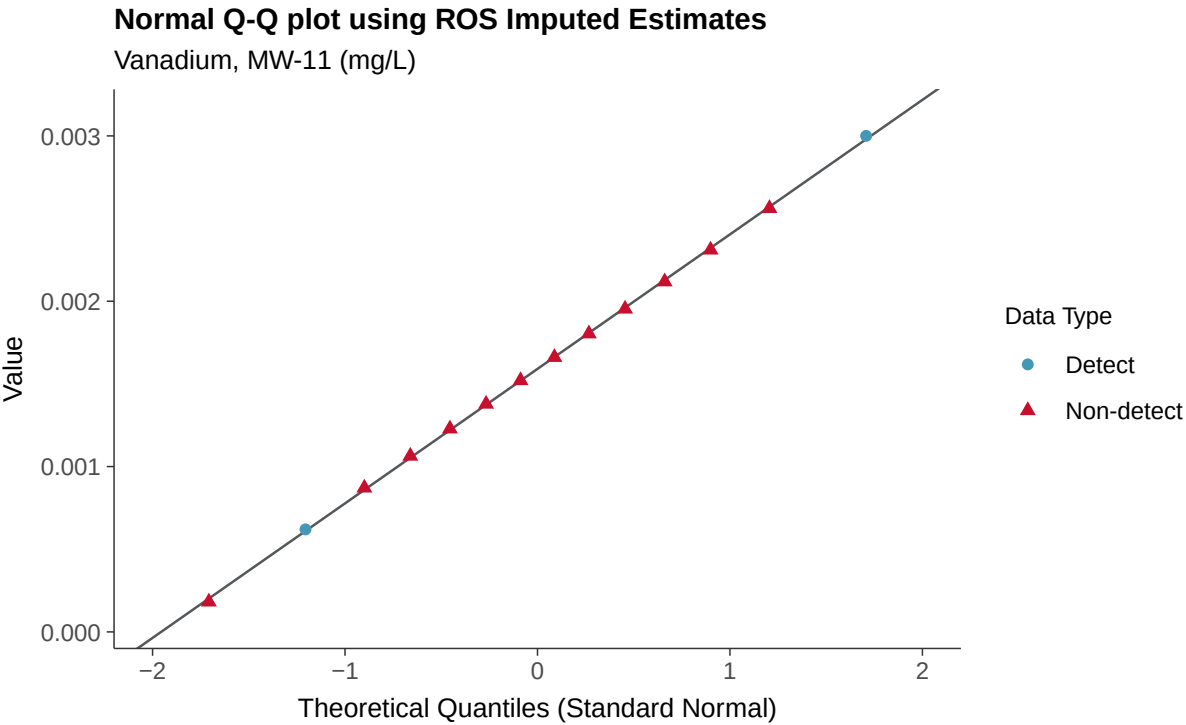


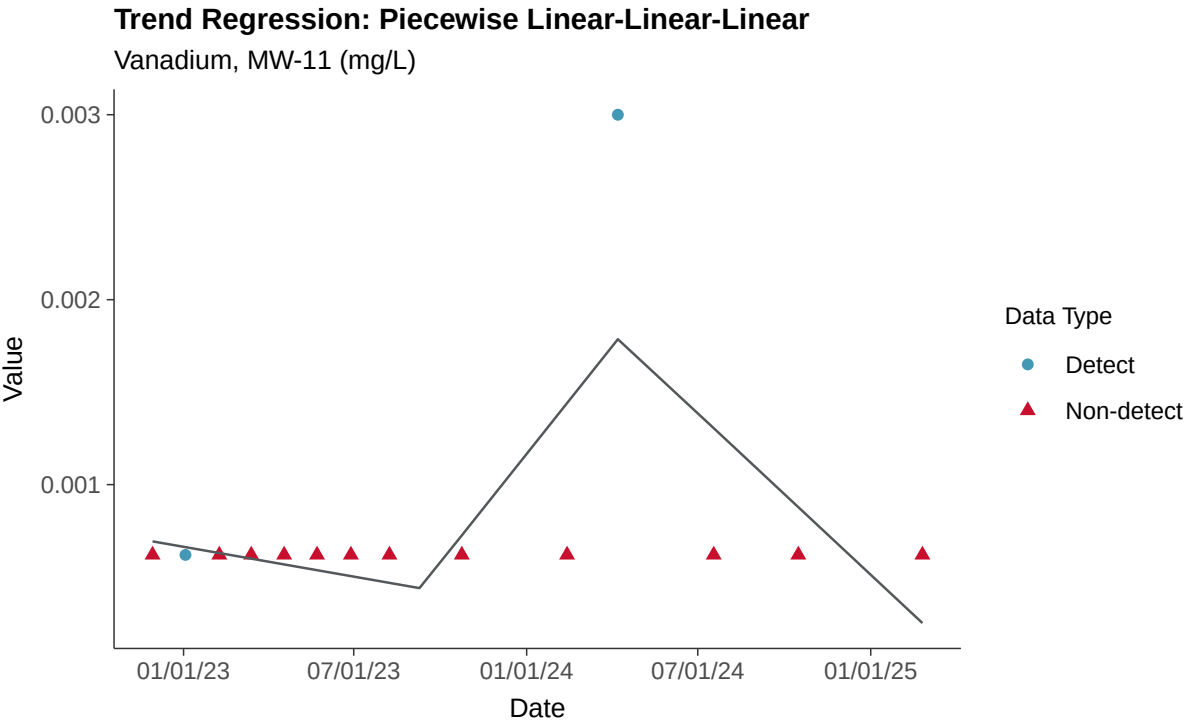
Part 115: Vanadium, MW-11

ID: 21_2_5_128





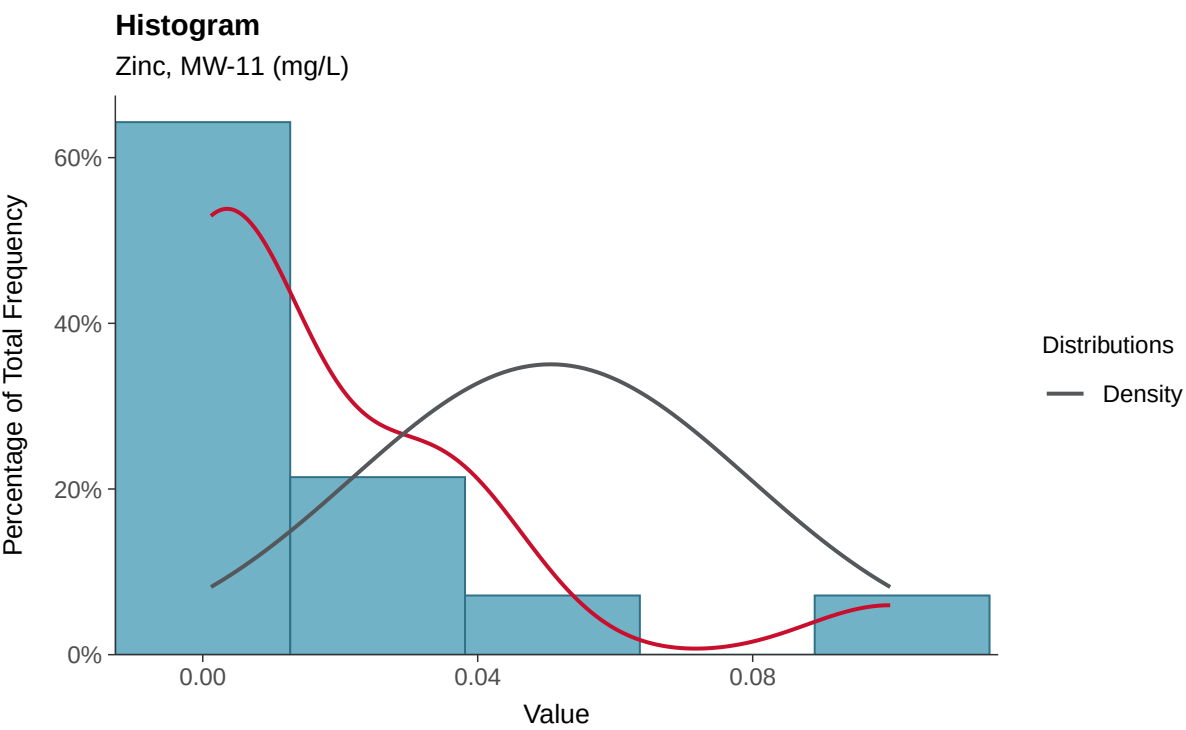
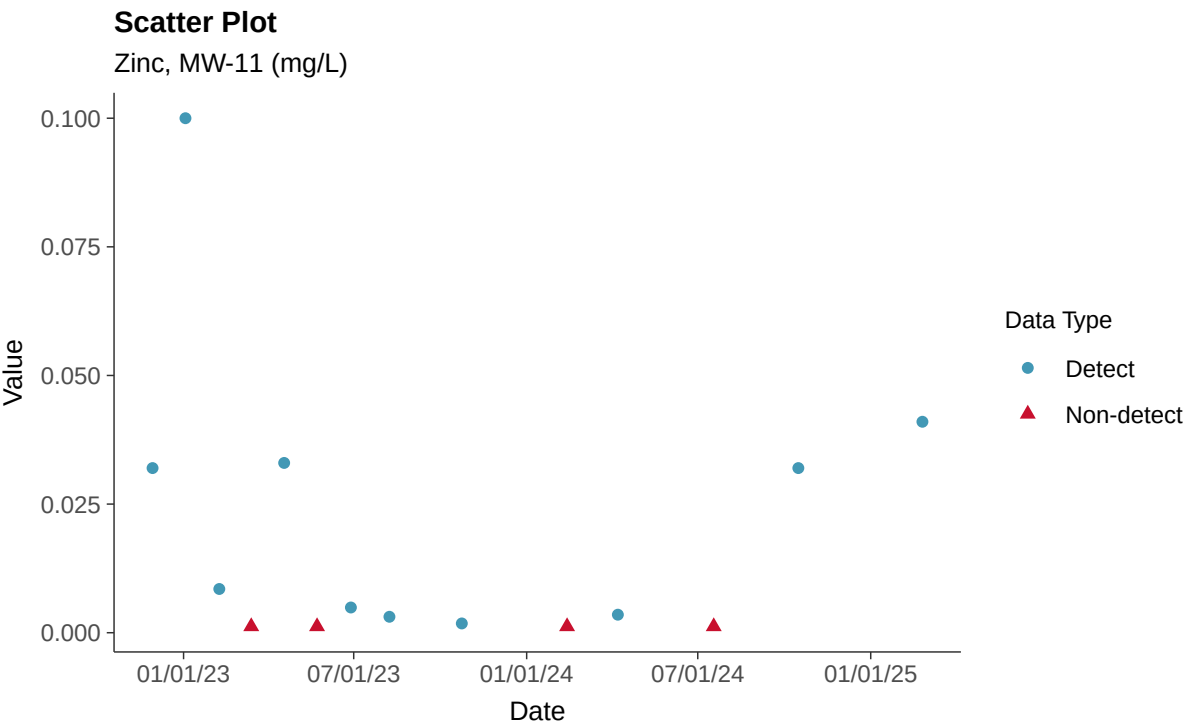


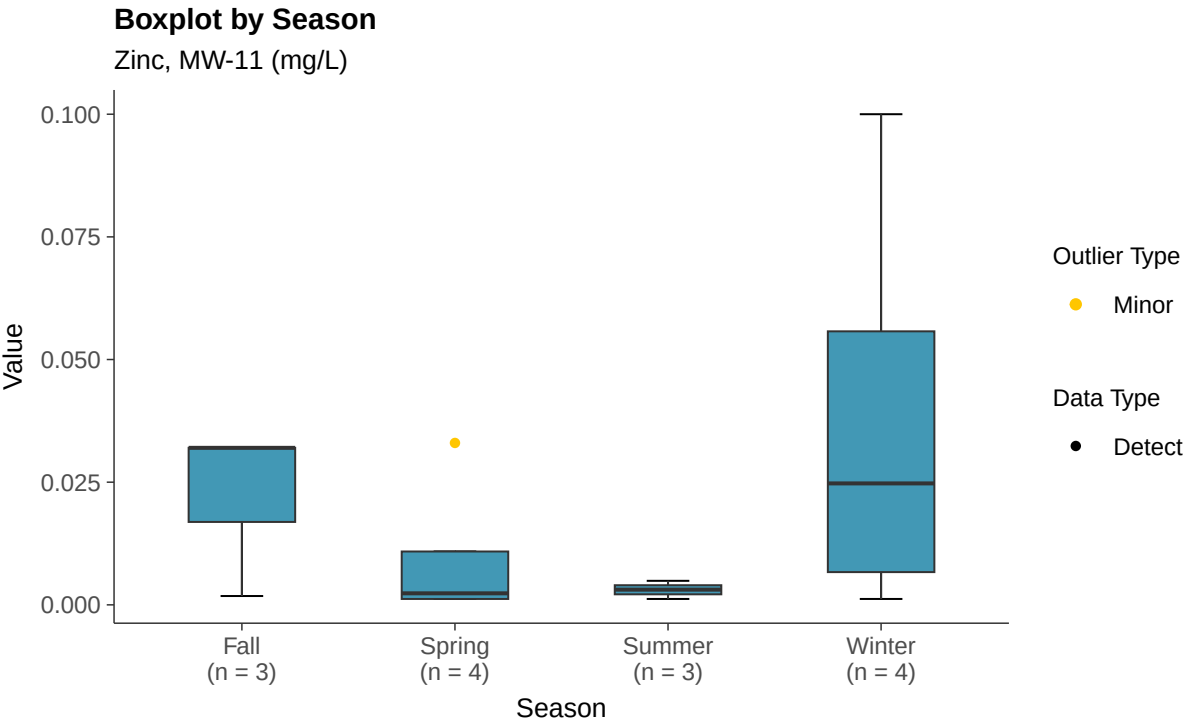
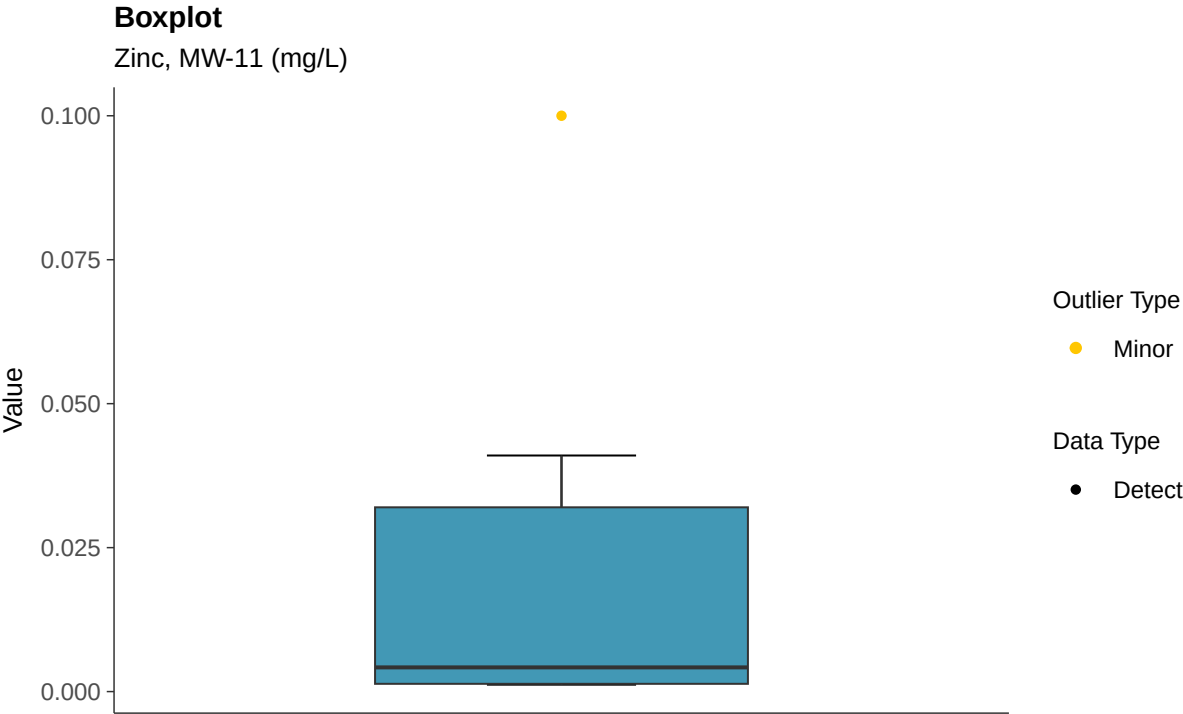




Part 115: Zinc, MW-11

ID: 21_2_5_129

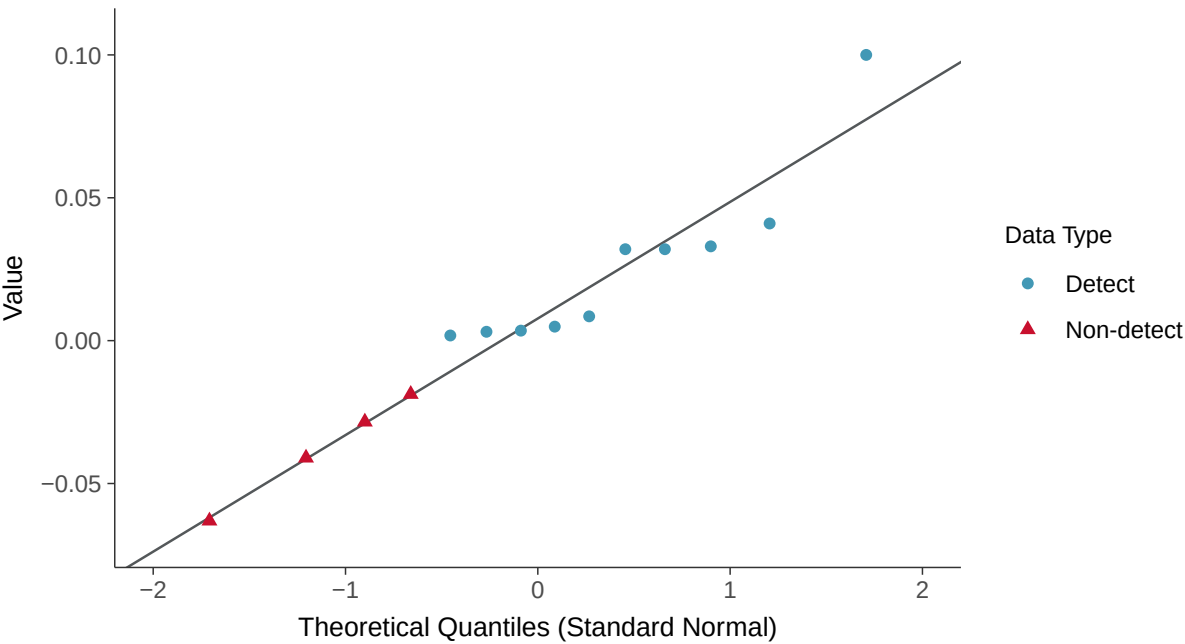






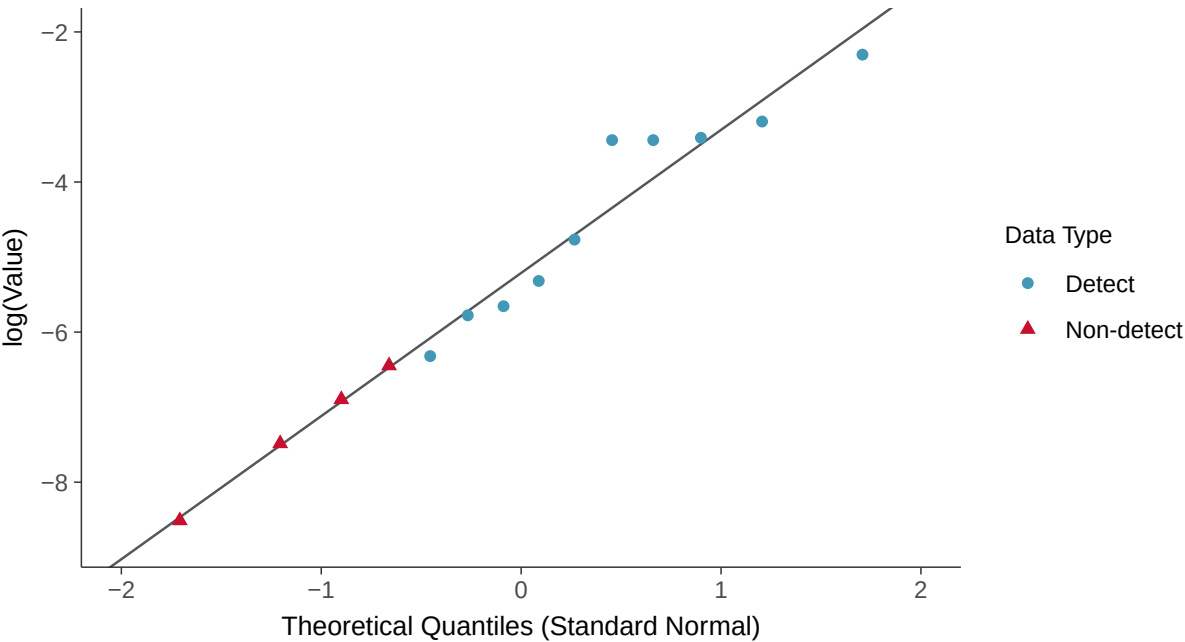
Normal Q-Q plot using ROS Imputed Estimates

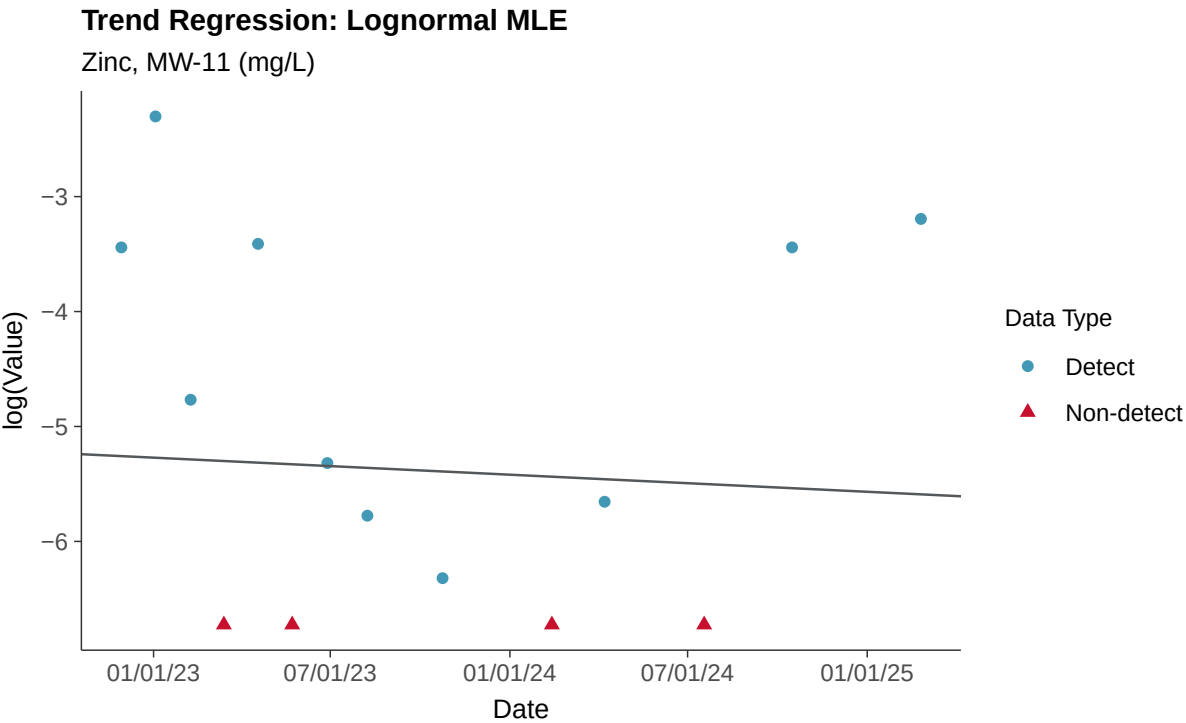
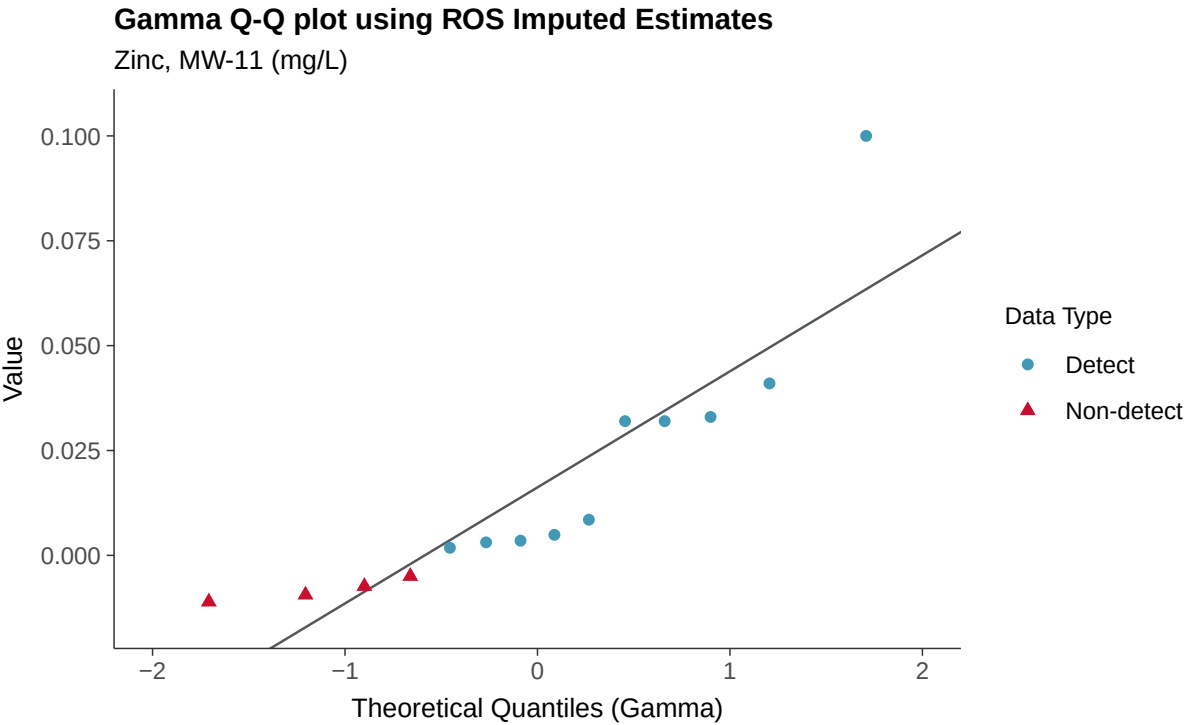
Zinc, MW-11 (mg/L)

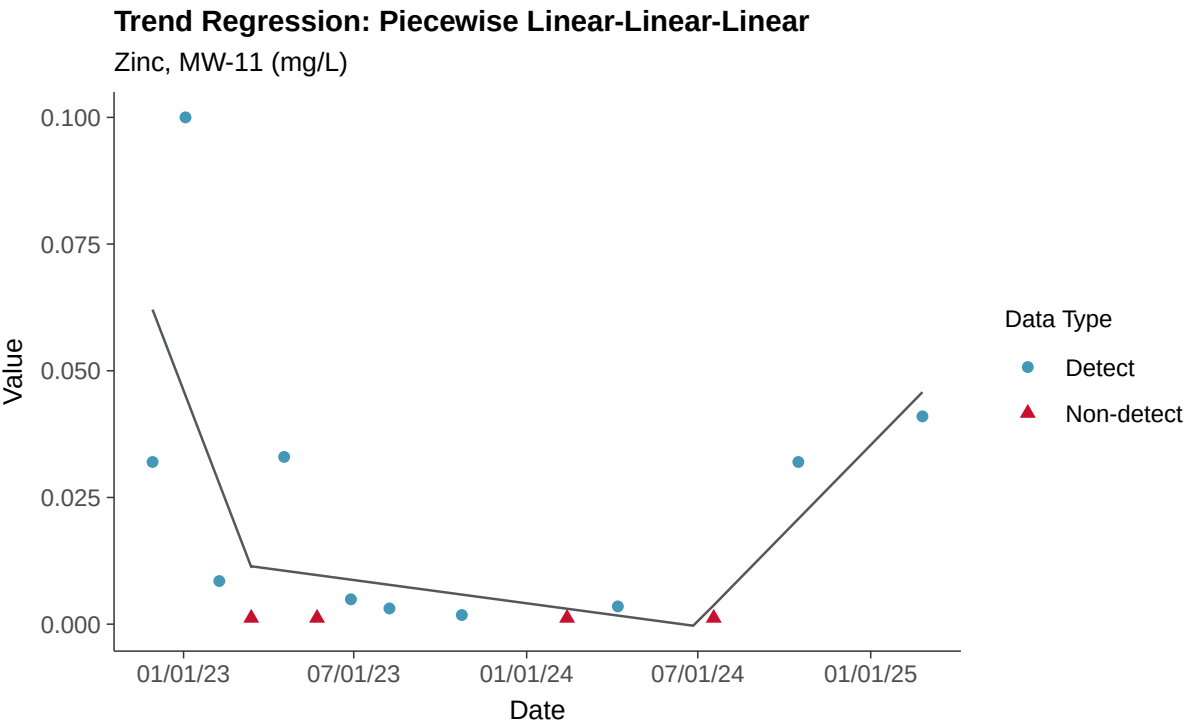
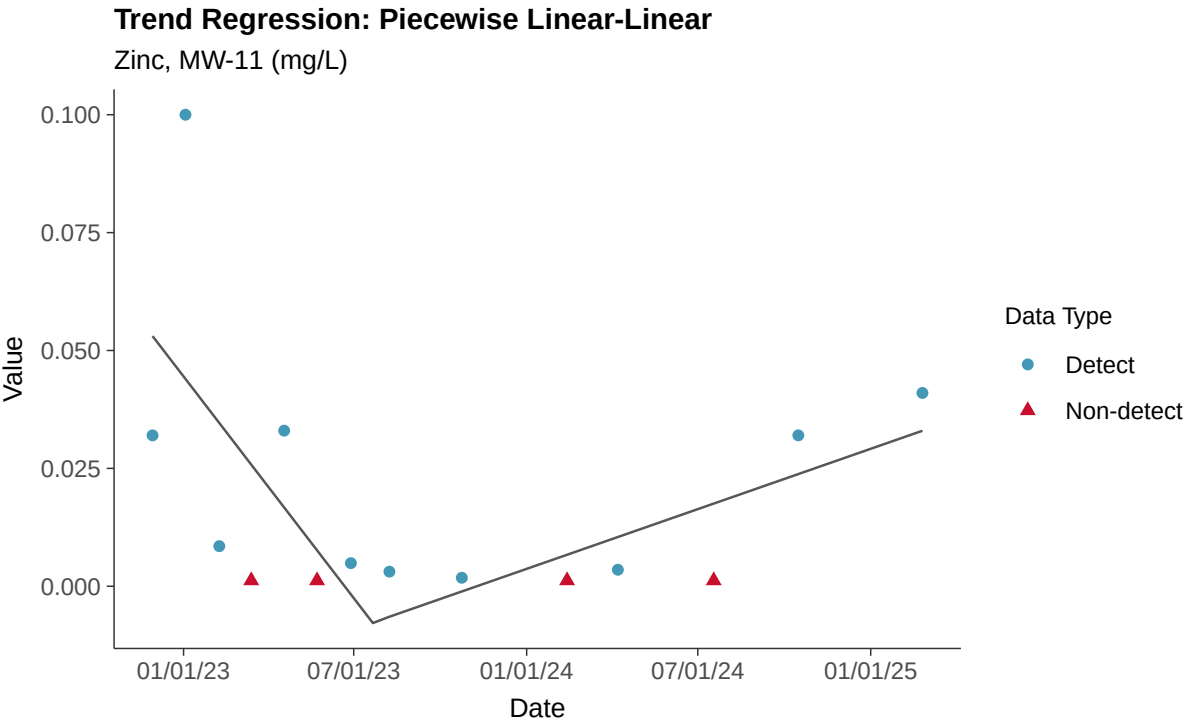


Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-11 (mg/L)



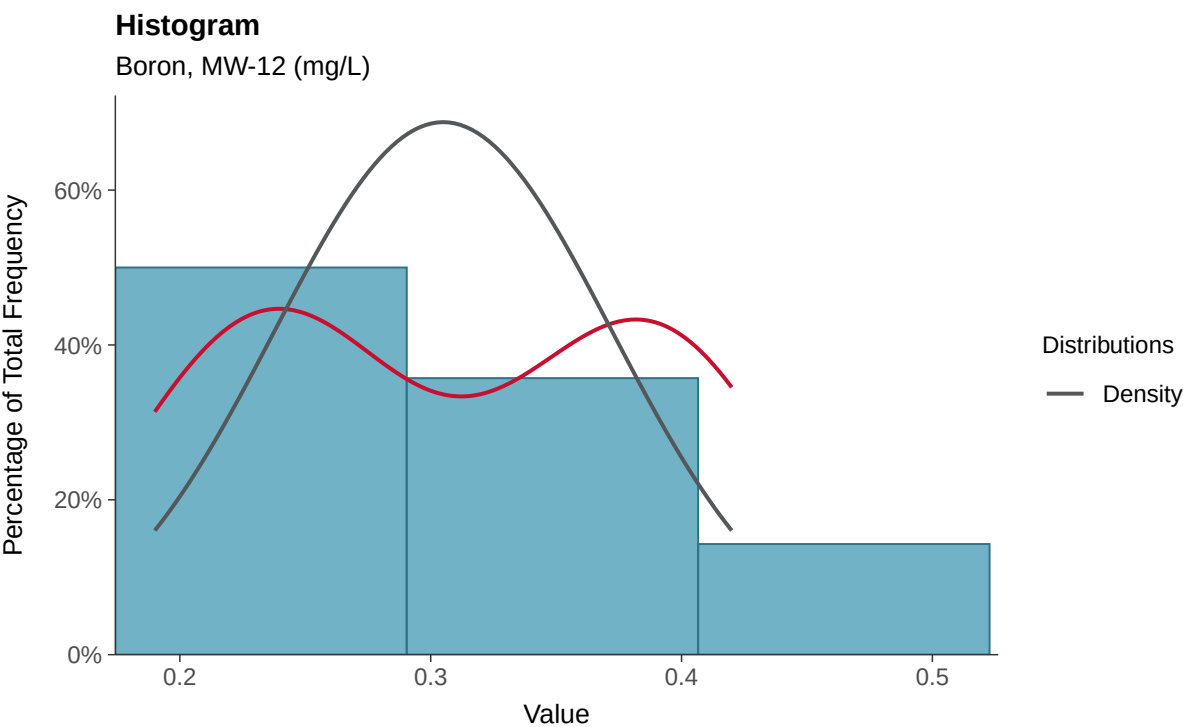
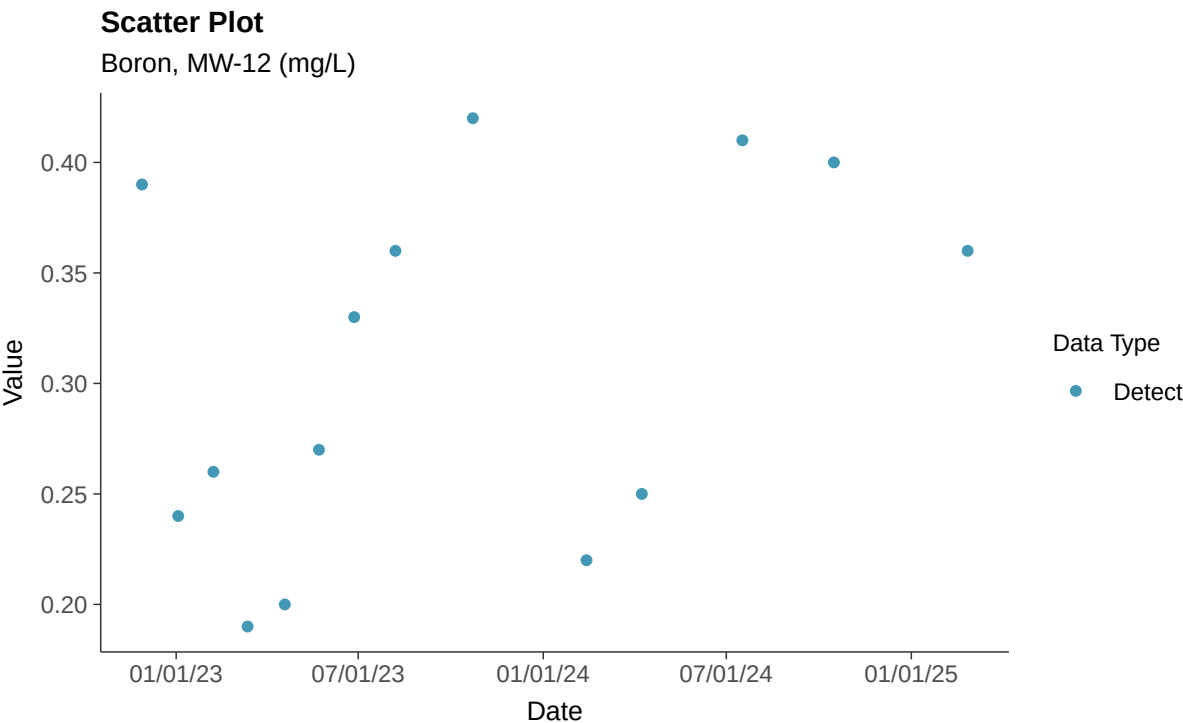


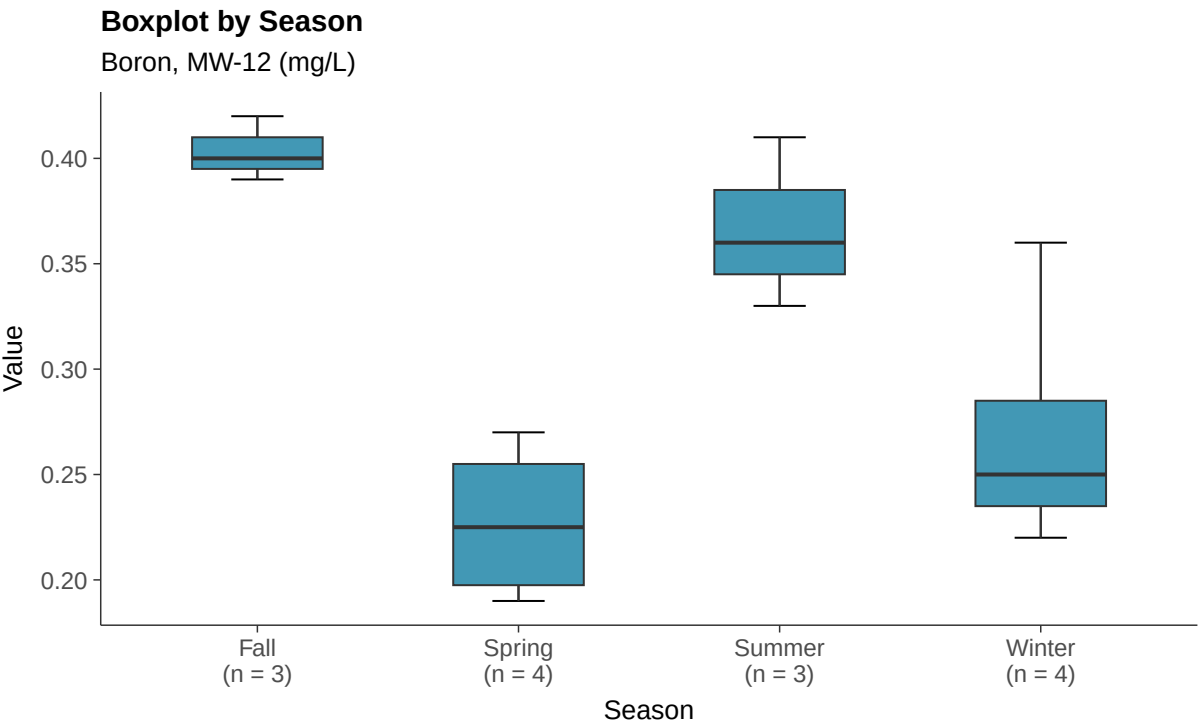
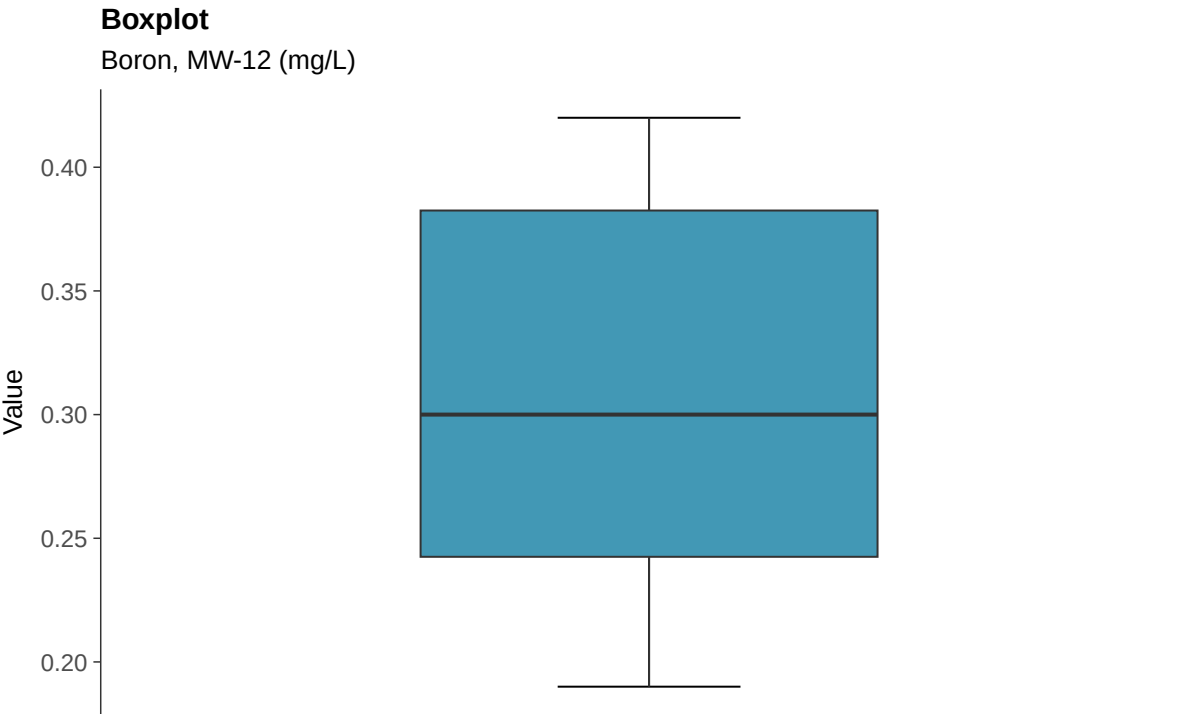


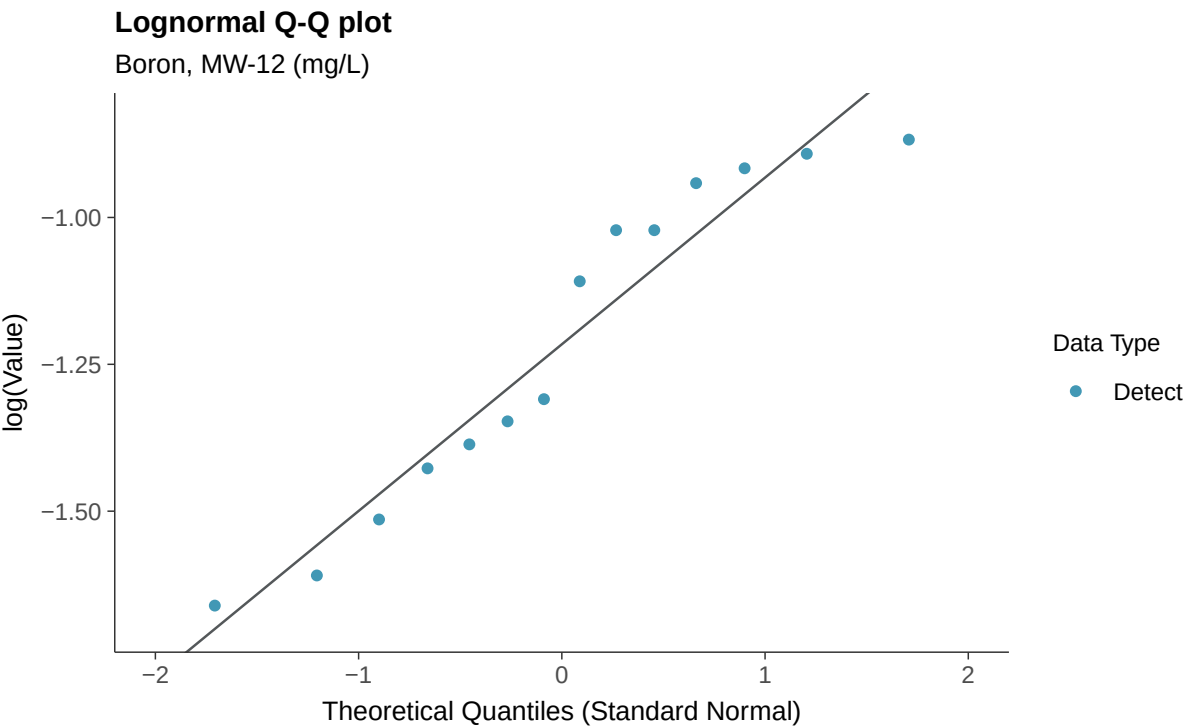
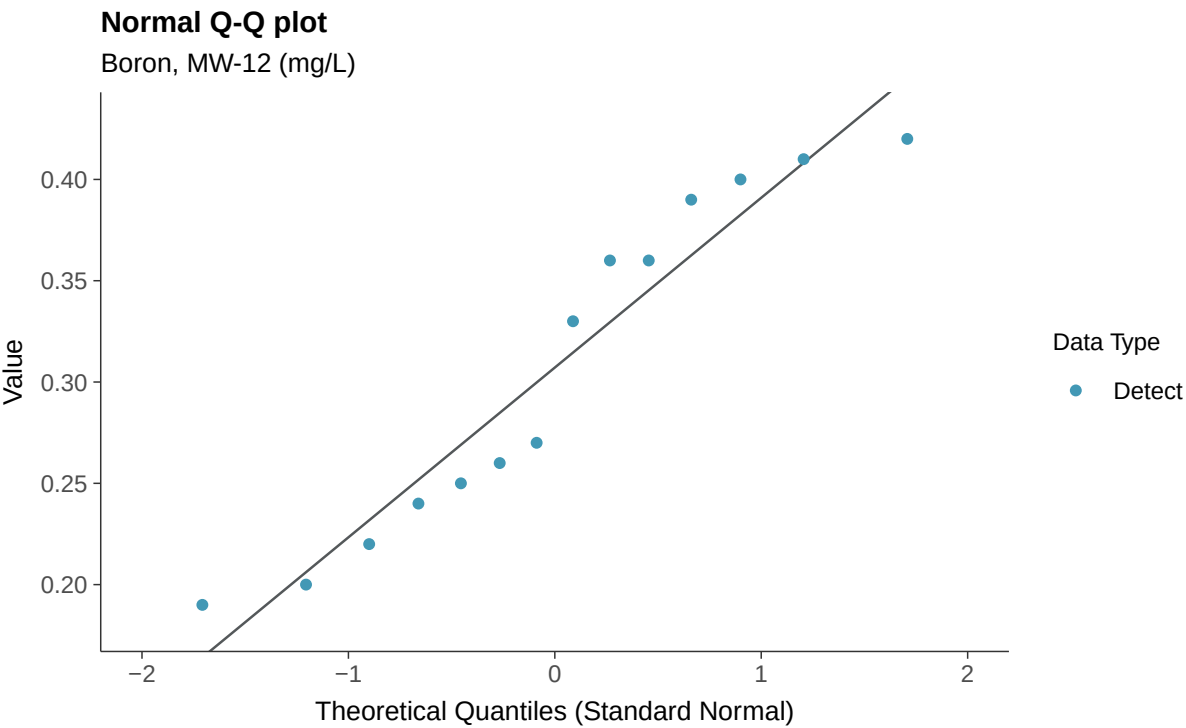


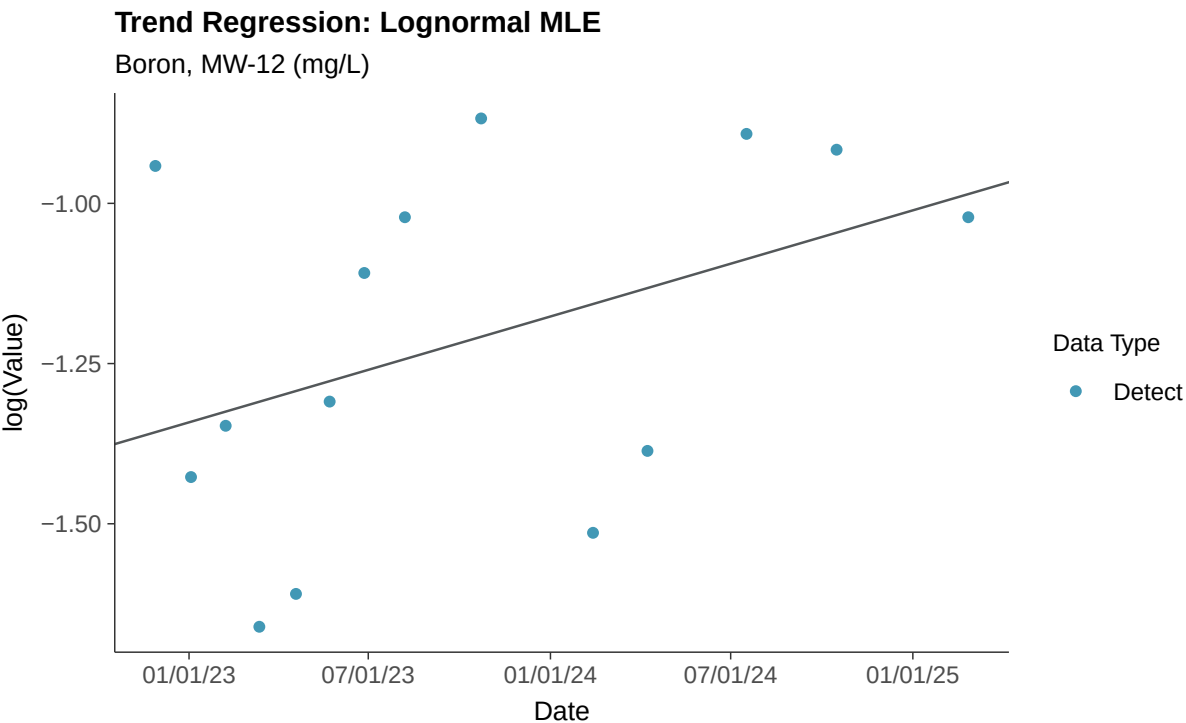
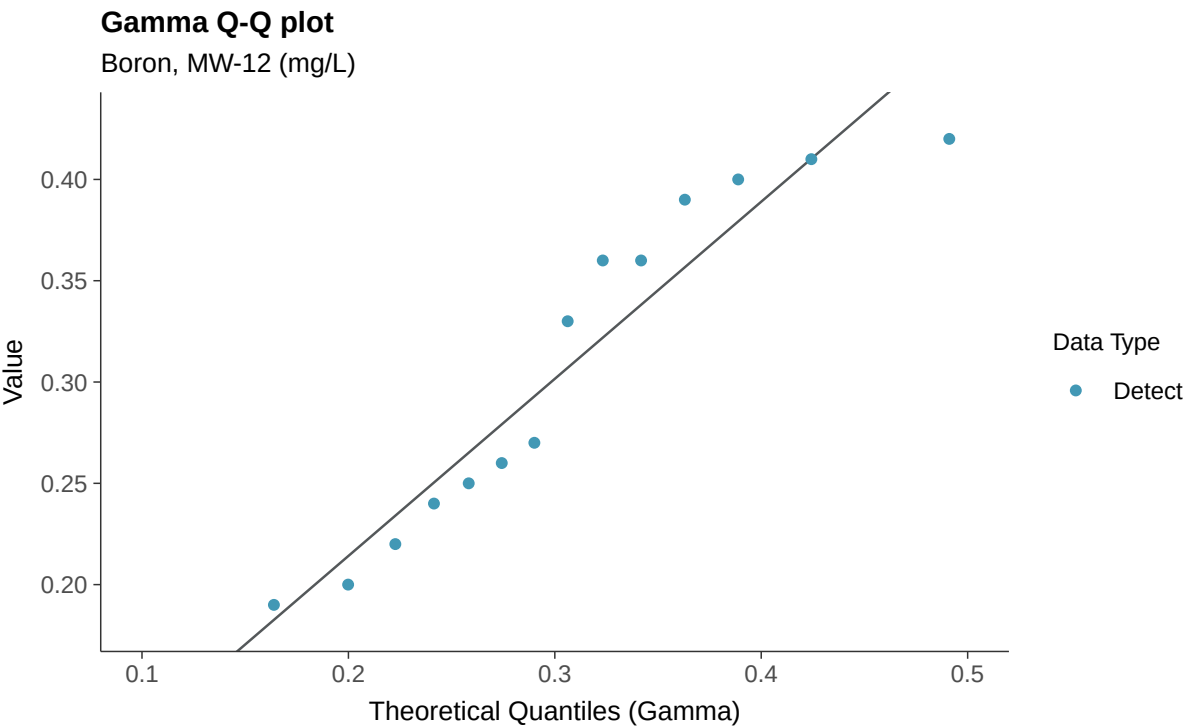
Appendix III: Boron, MW-12

ID: 22_2_3_105





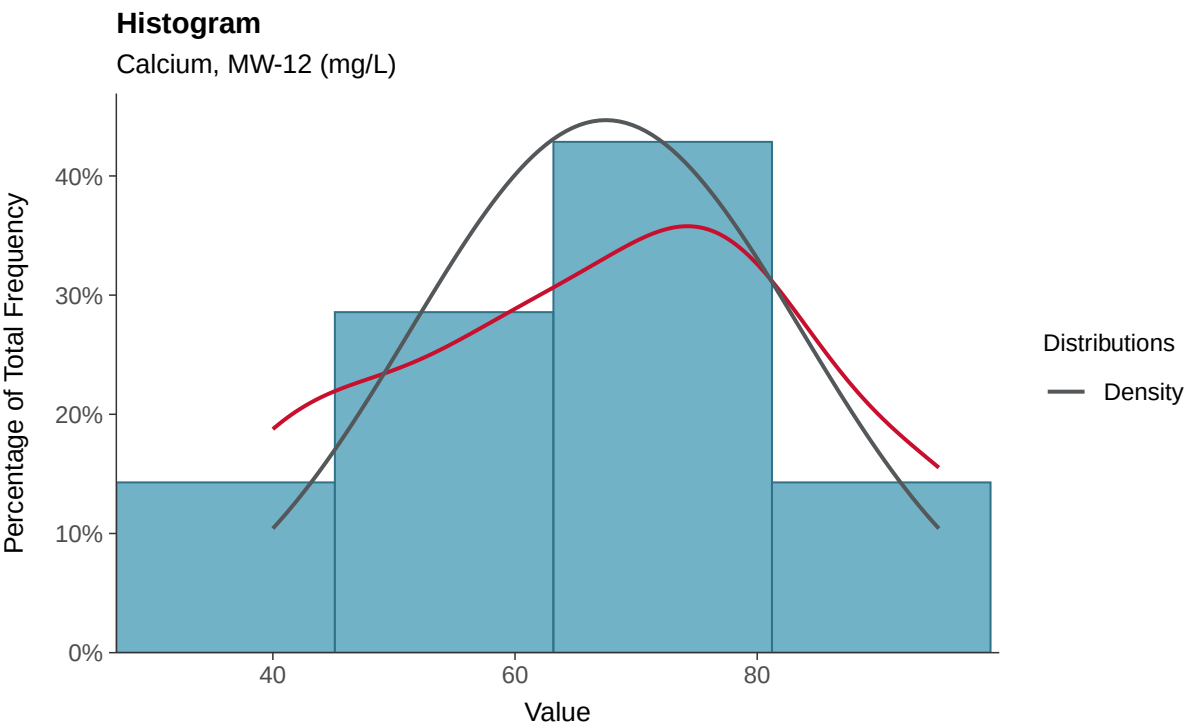
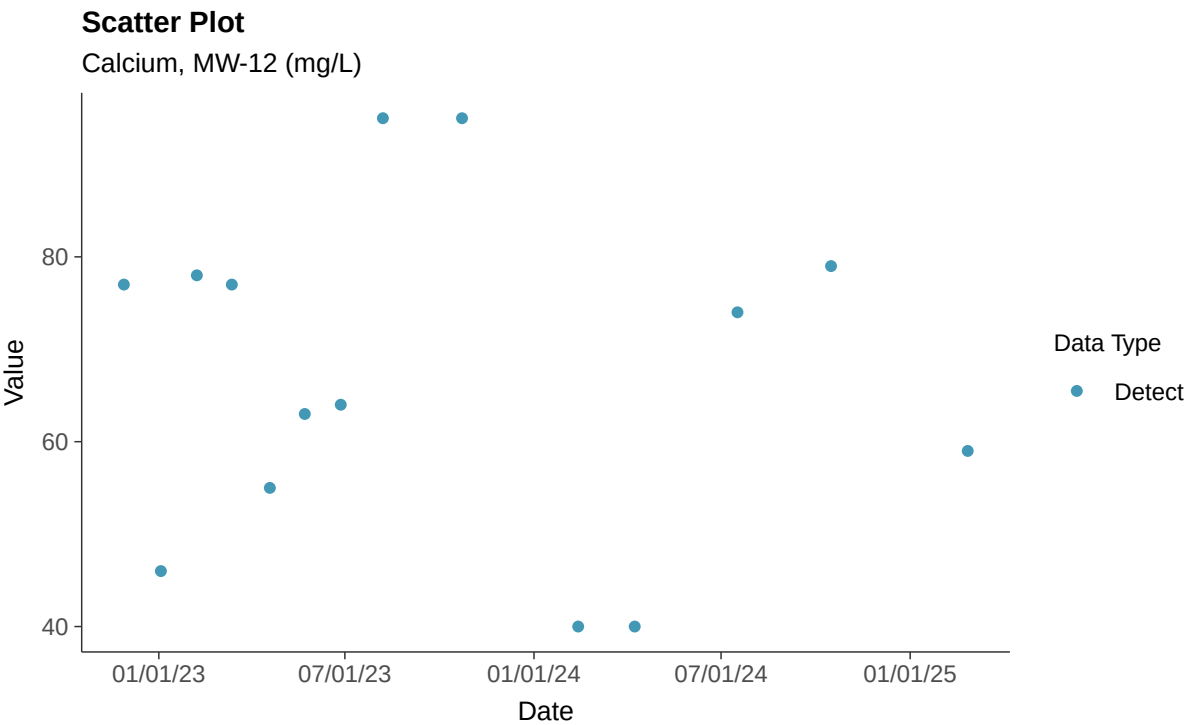


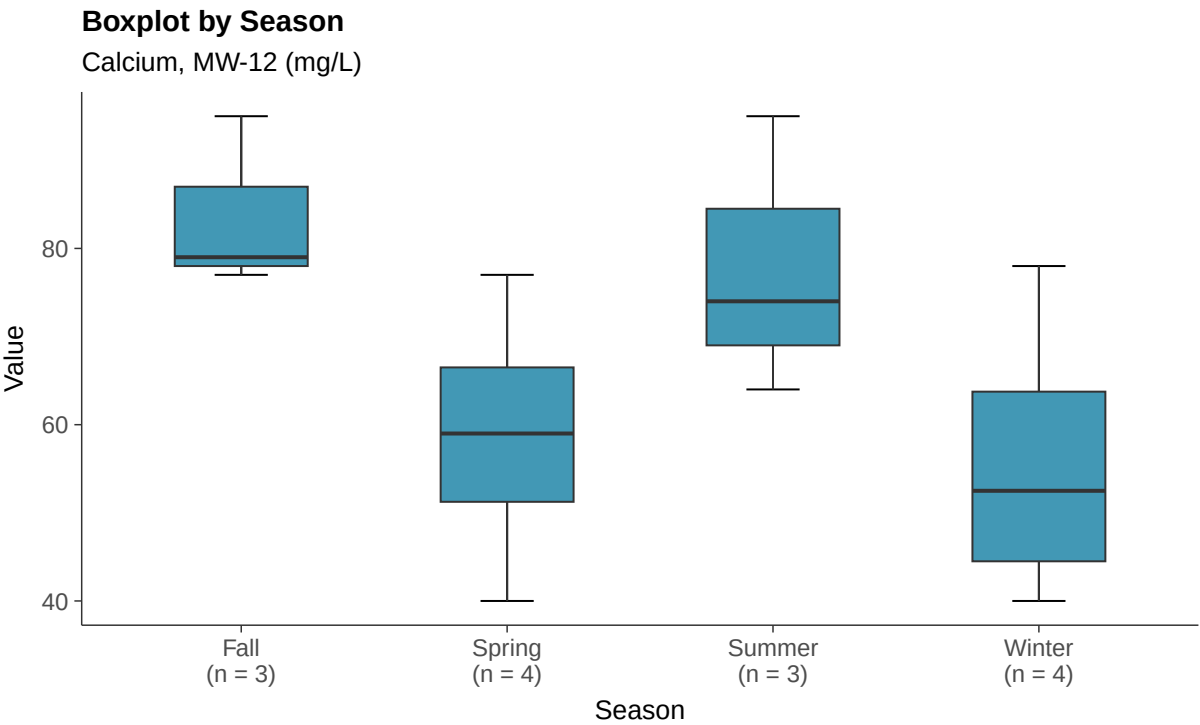
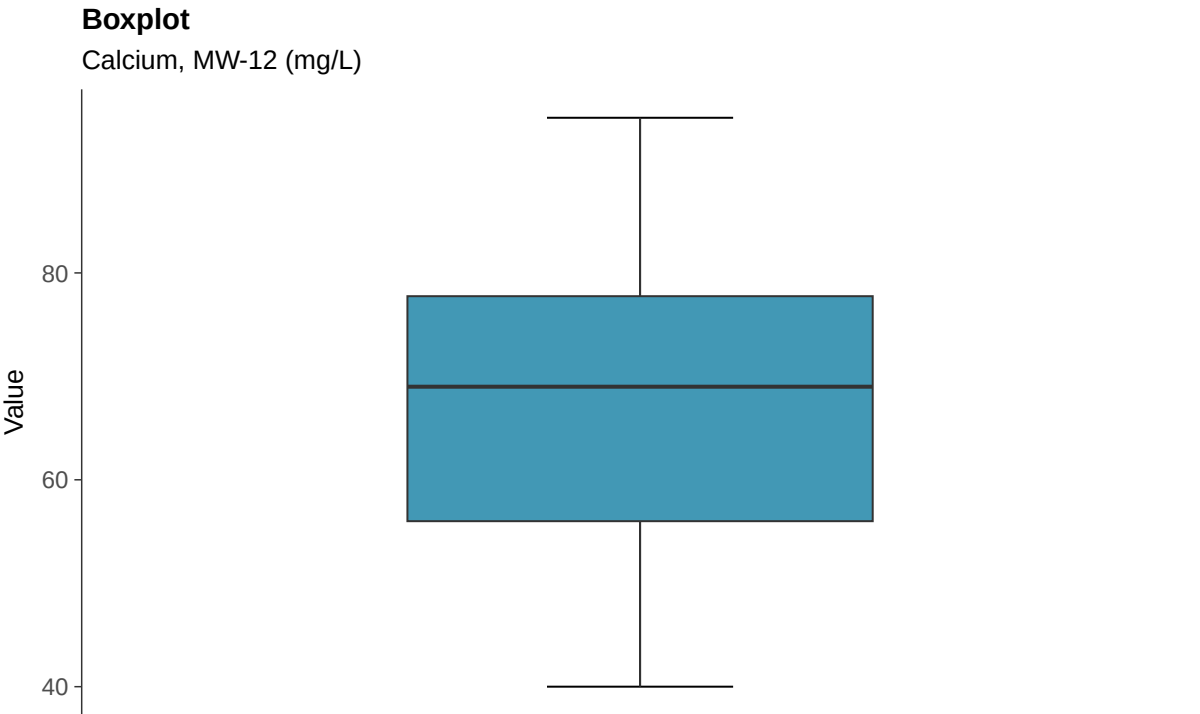


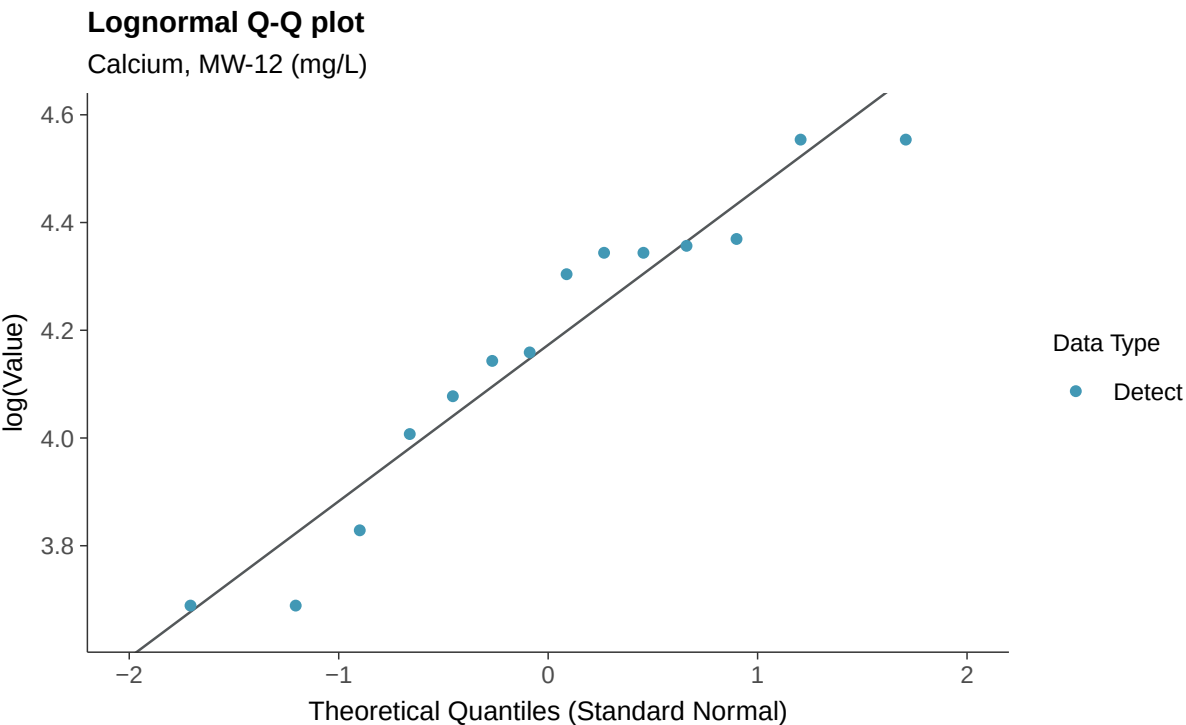
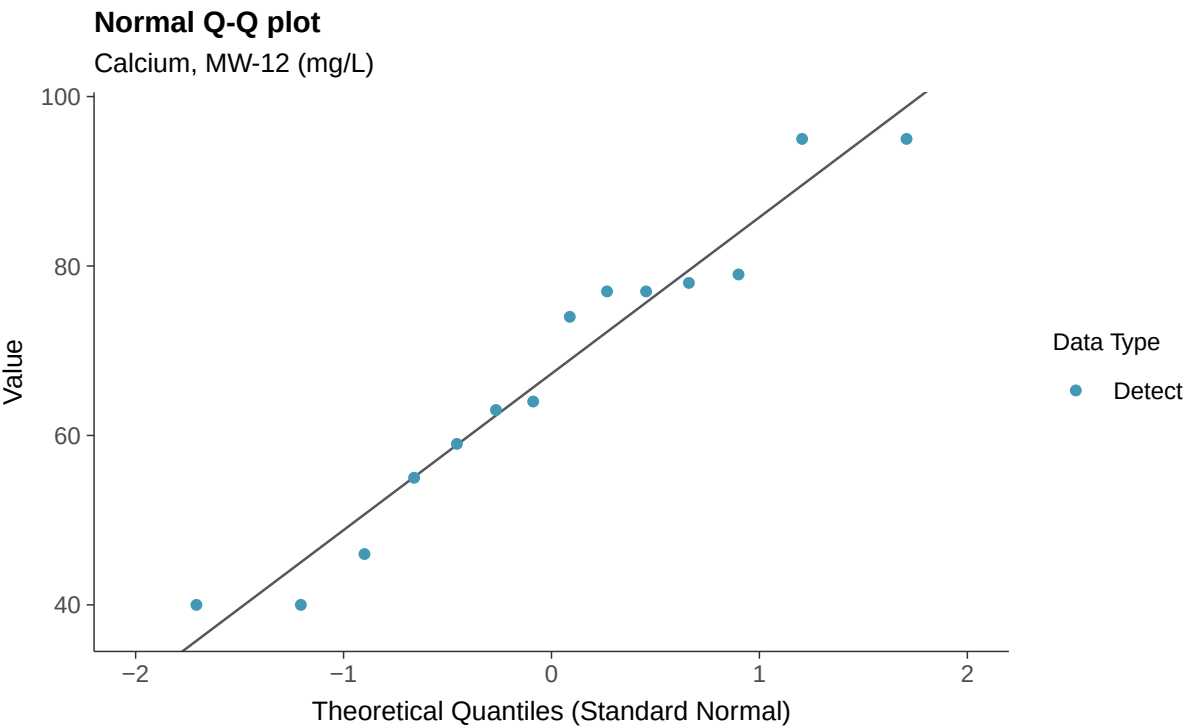


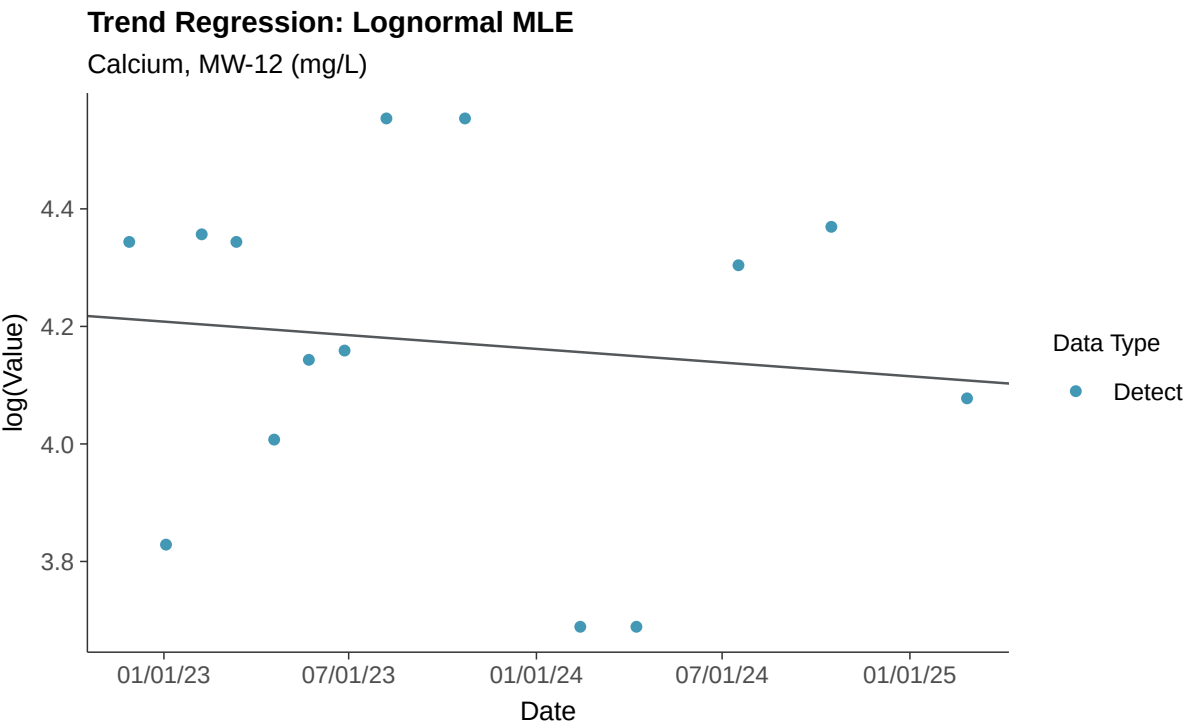
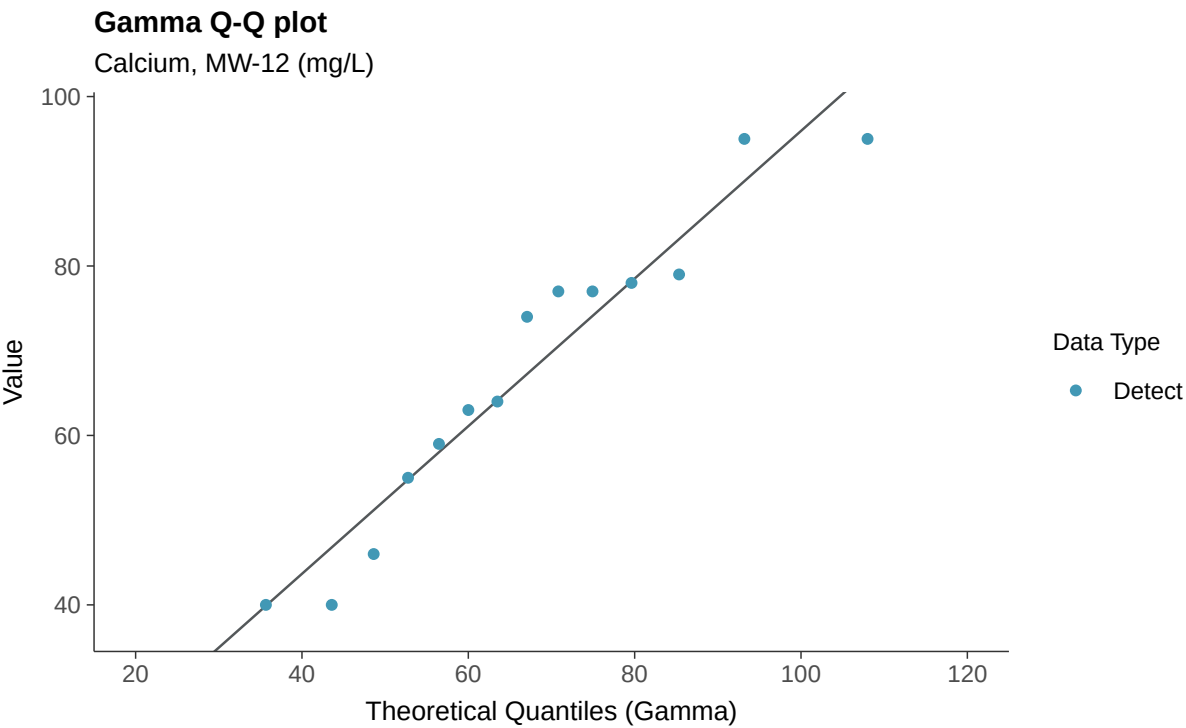
Appendix III: Calcium, MW-12

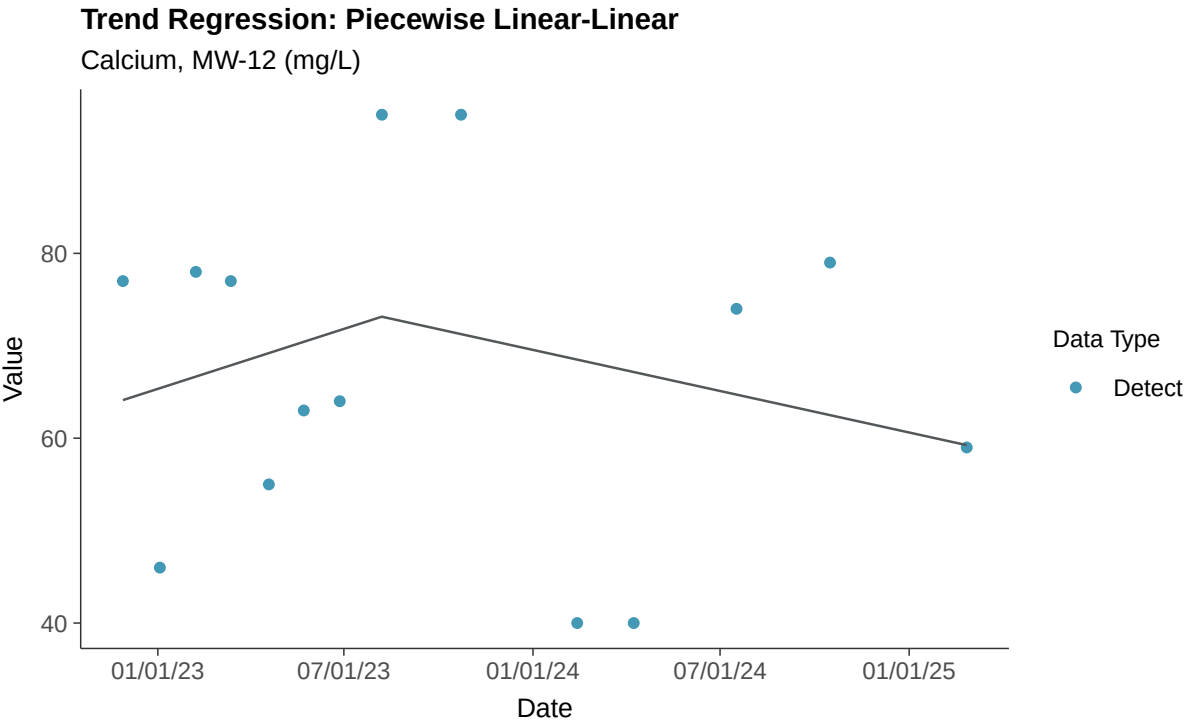
ID: 22_2_3_107







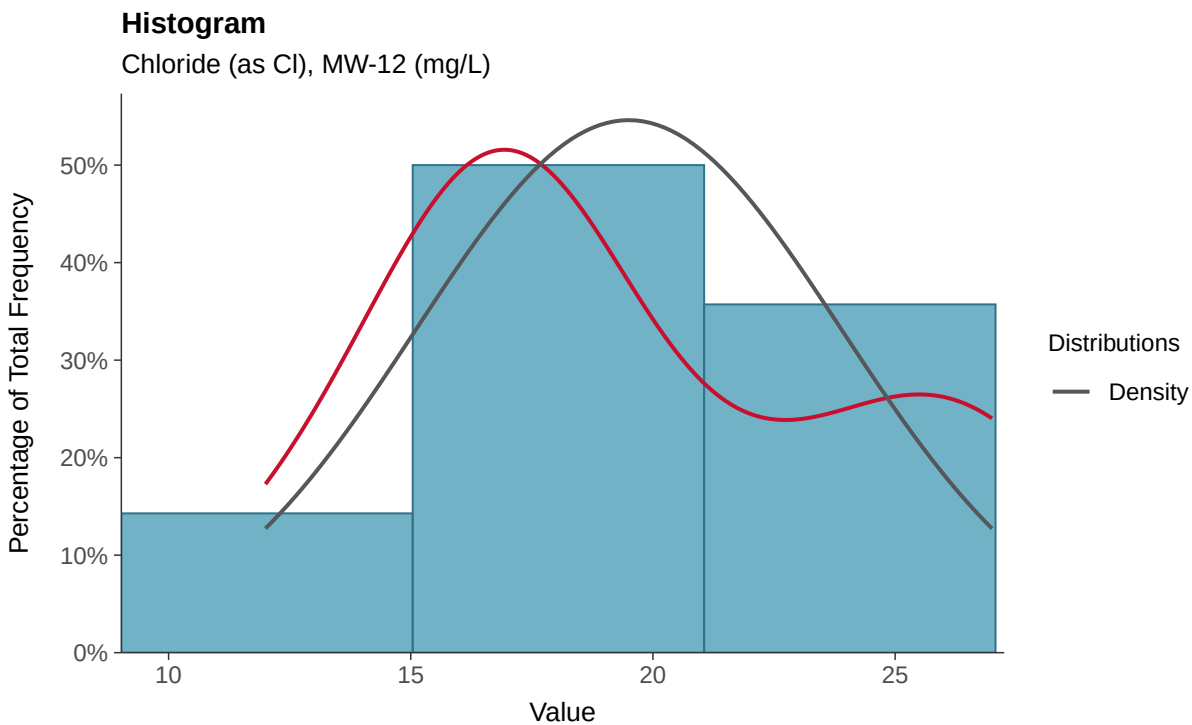
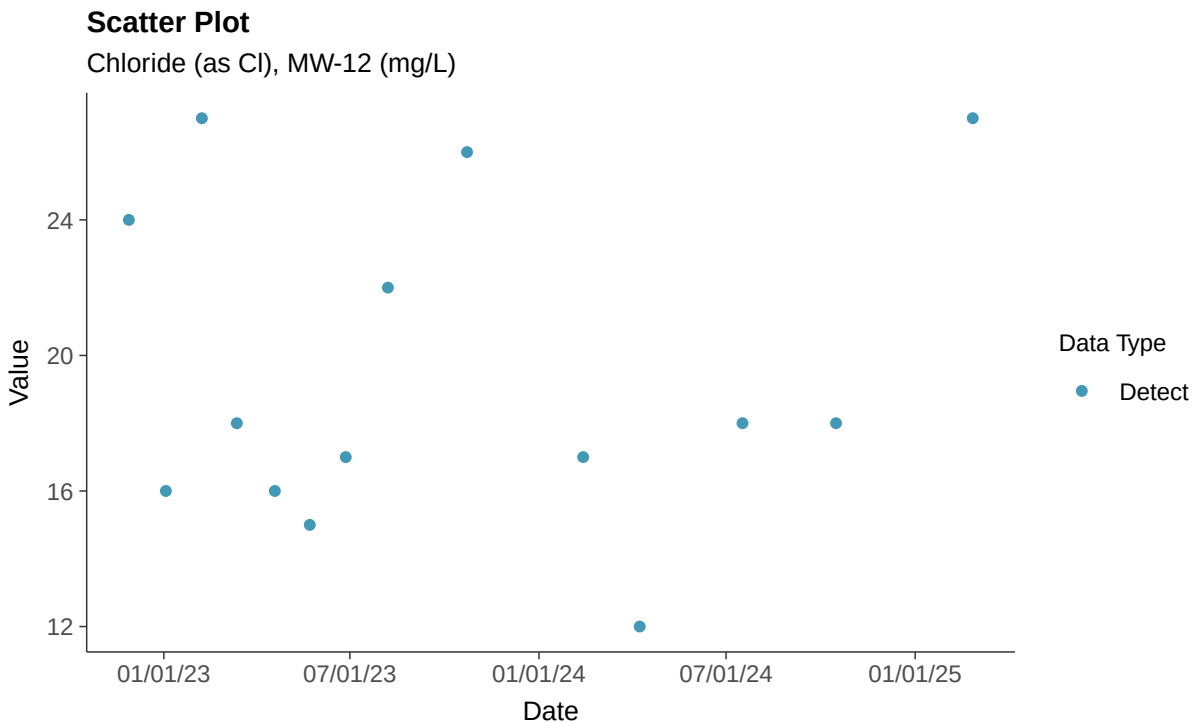


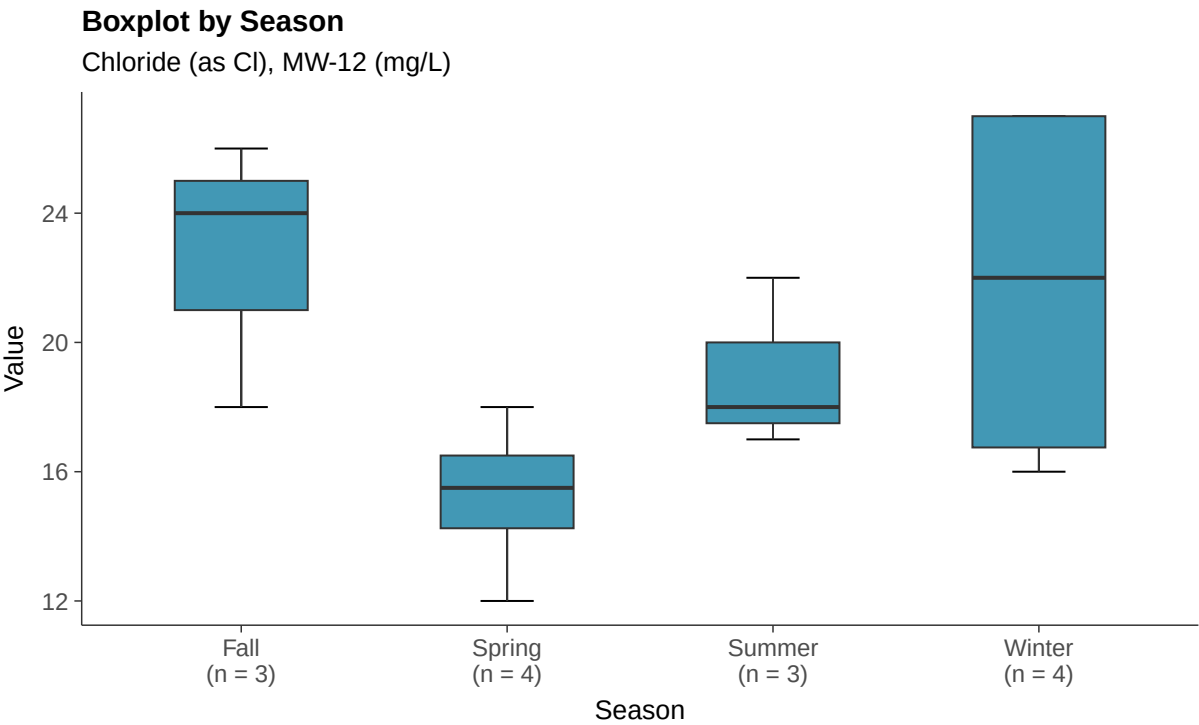
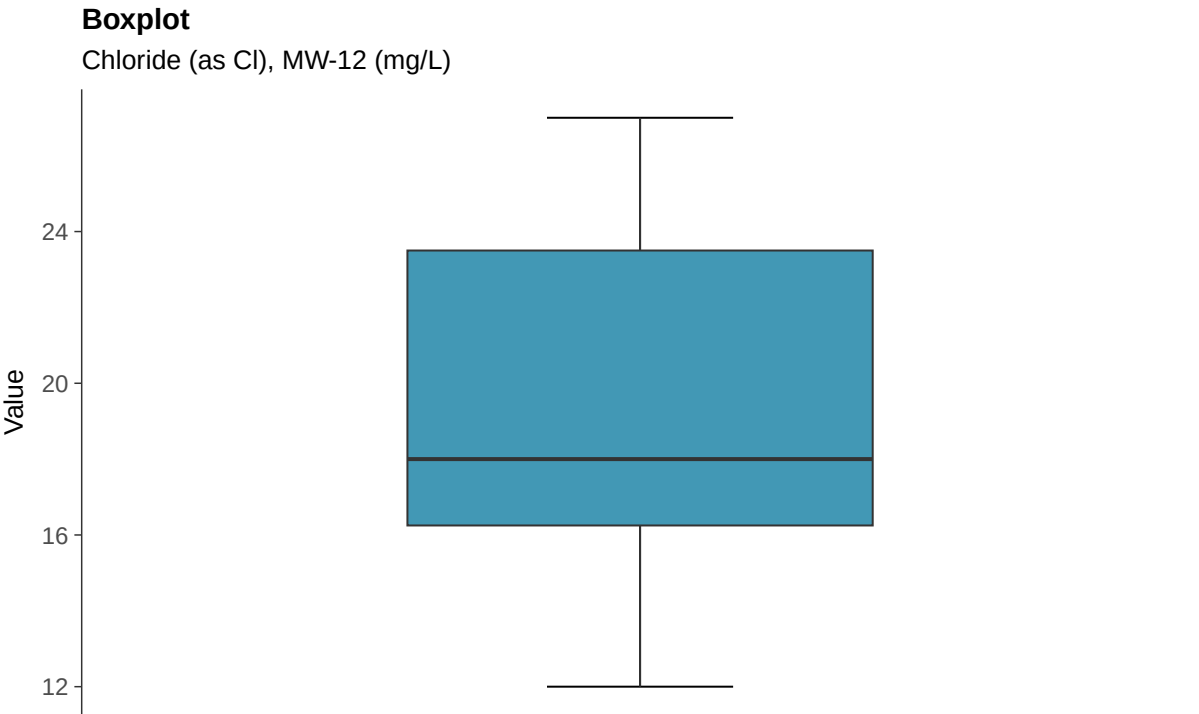


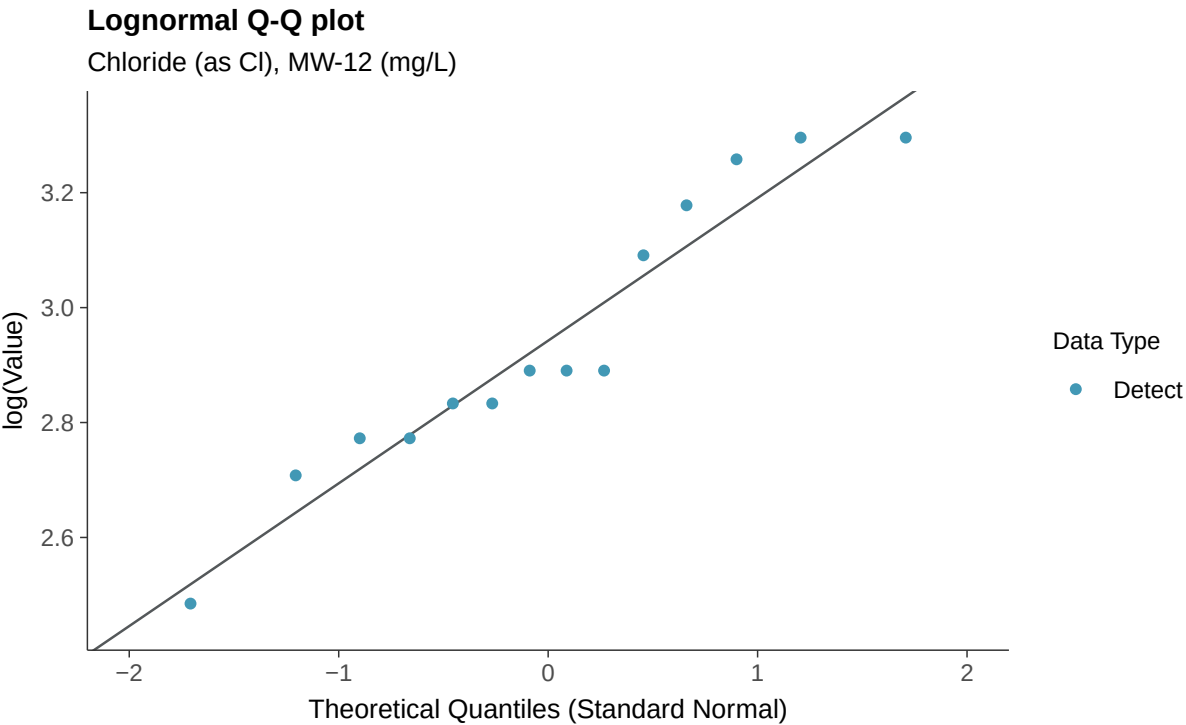
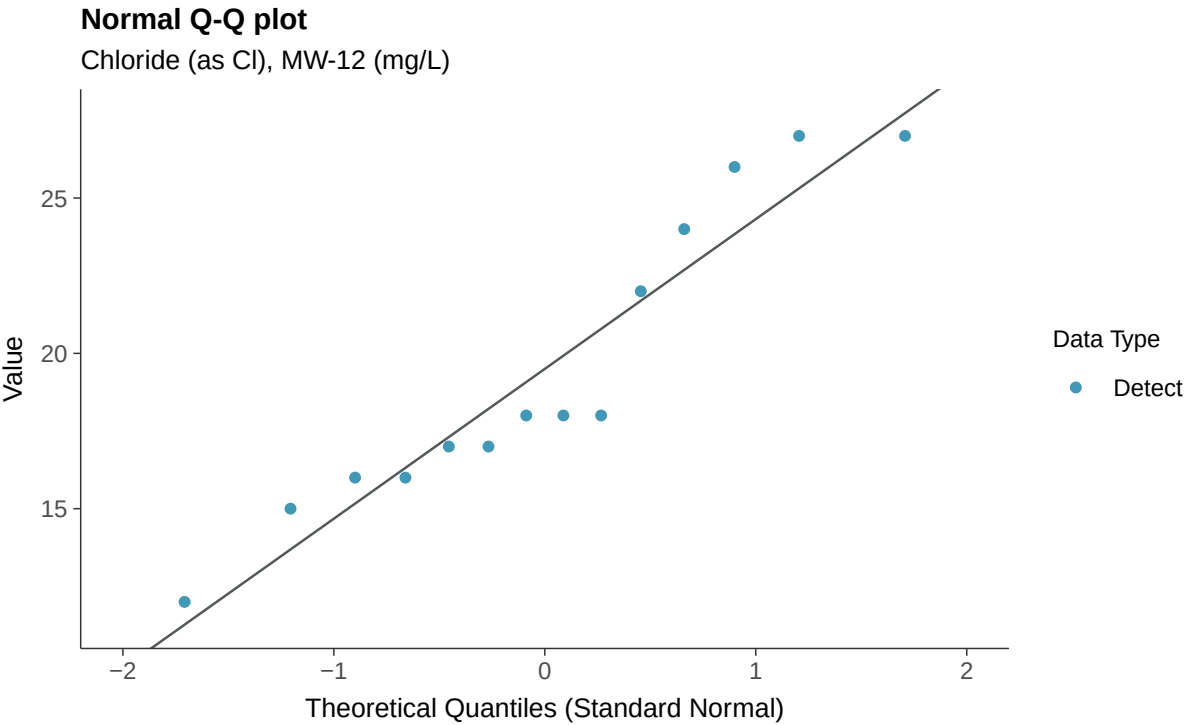


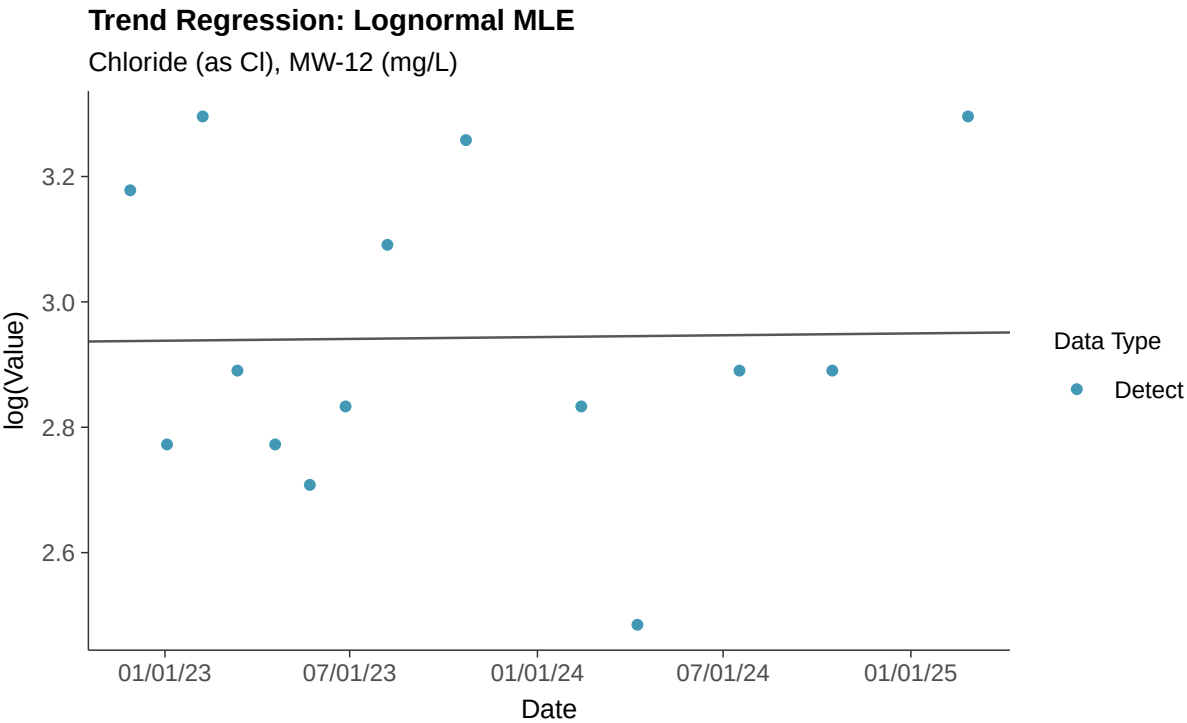
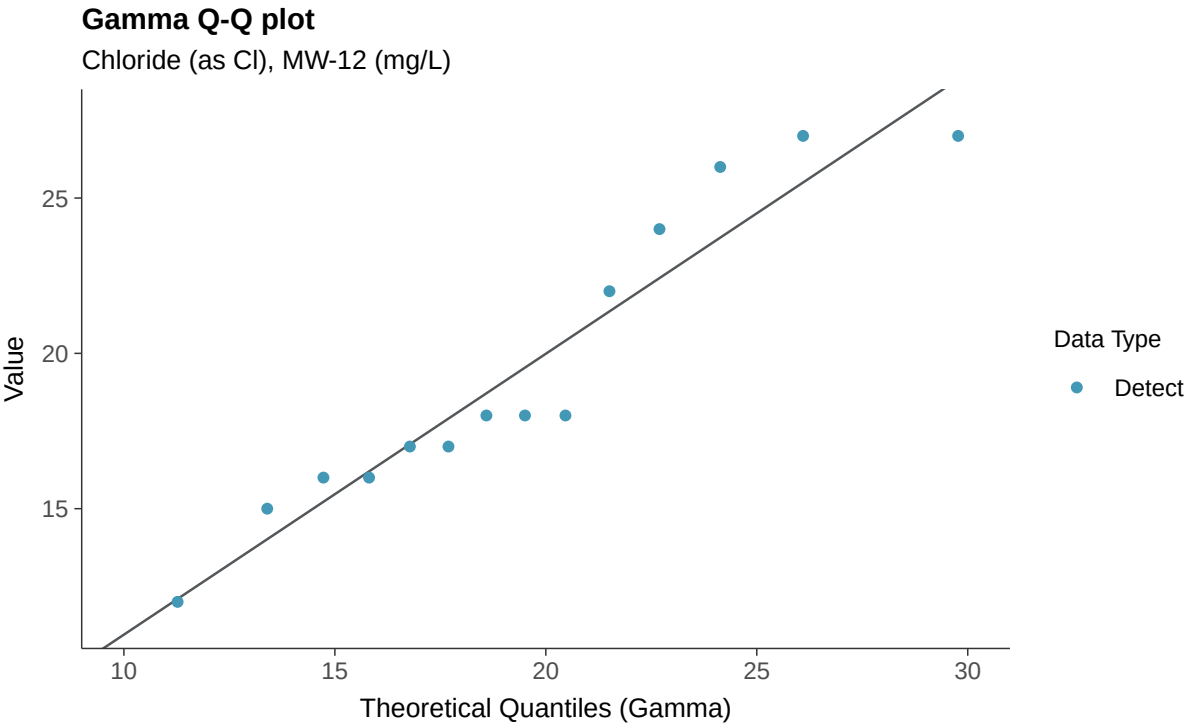
Appendix III: Chloride (as Cl), MW-12

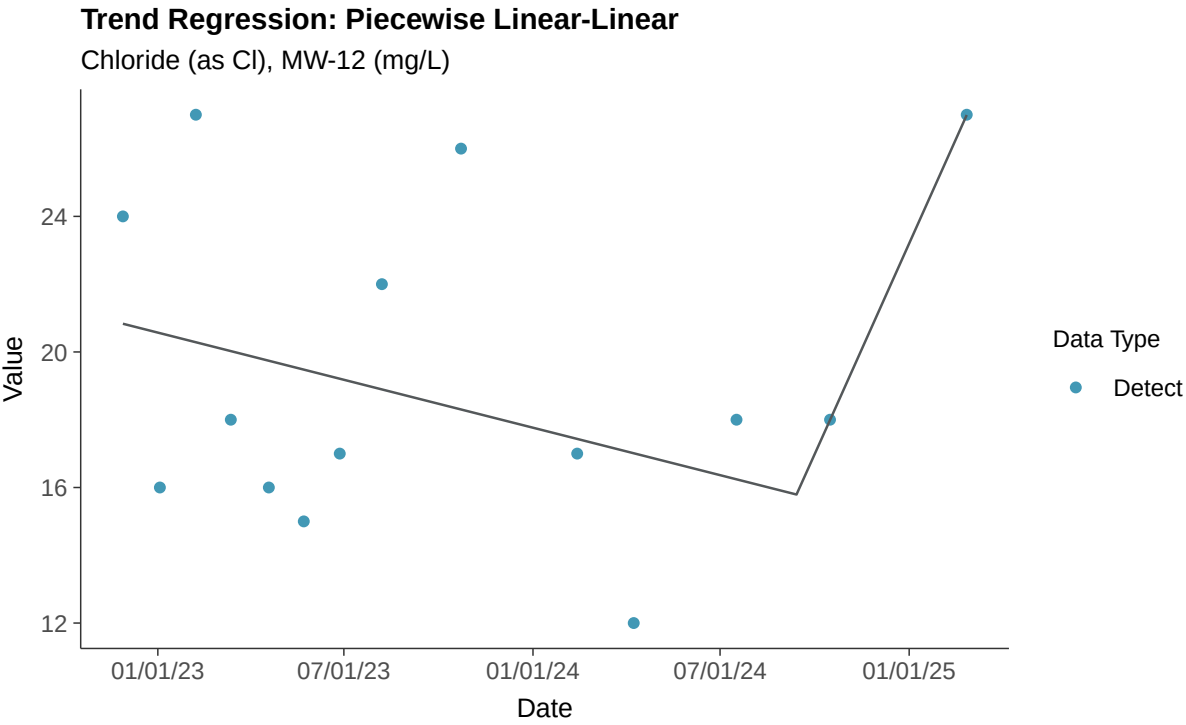
ID: 22_2_3_108







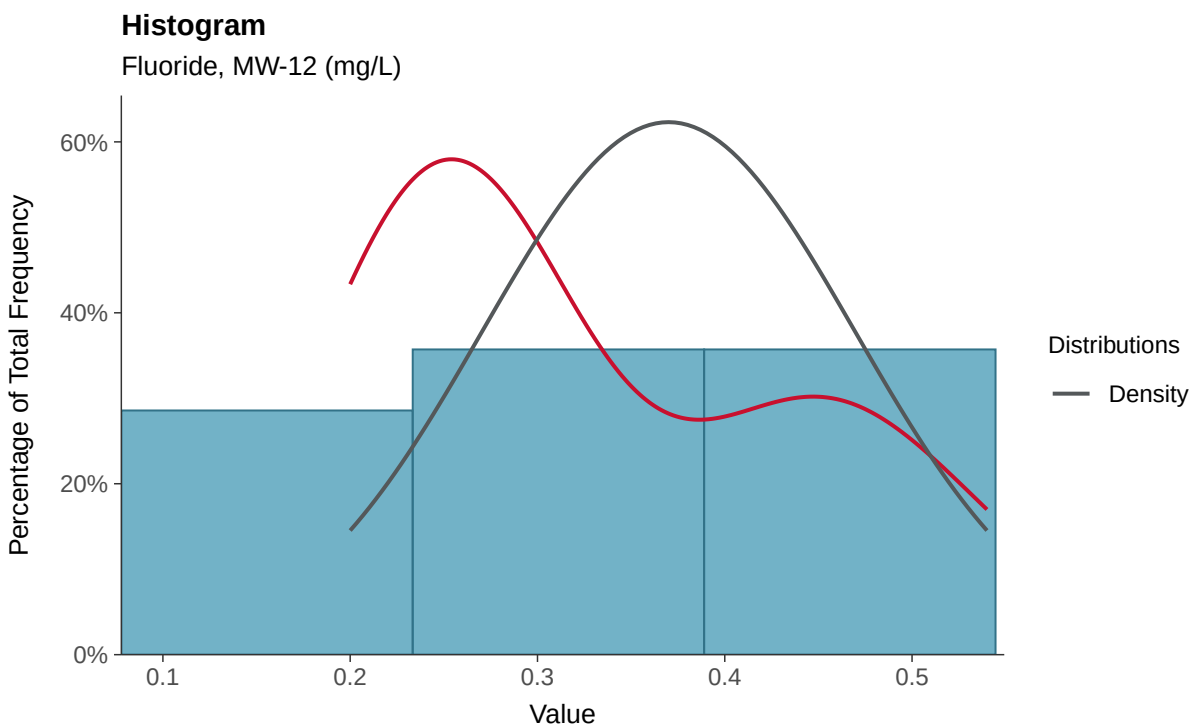
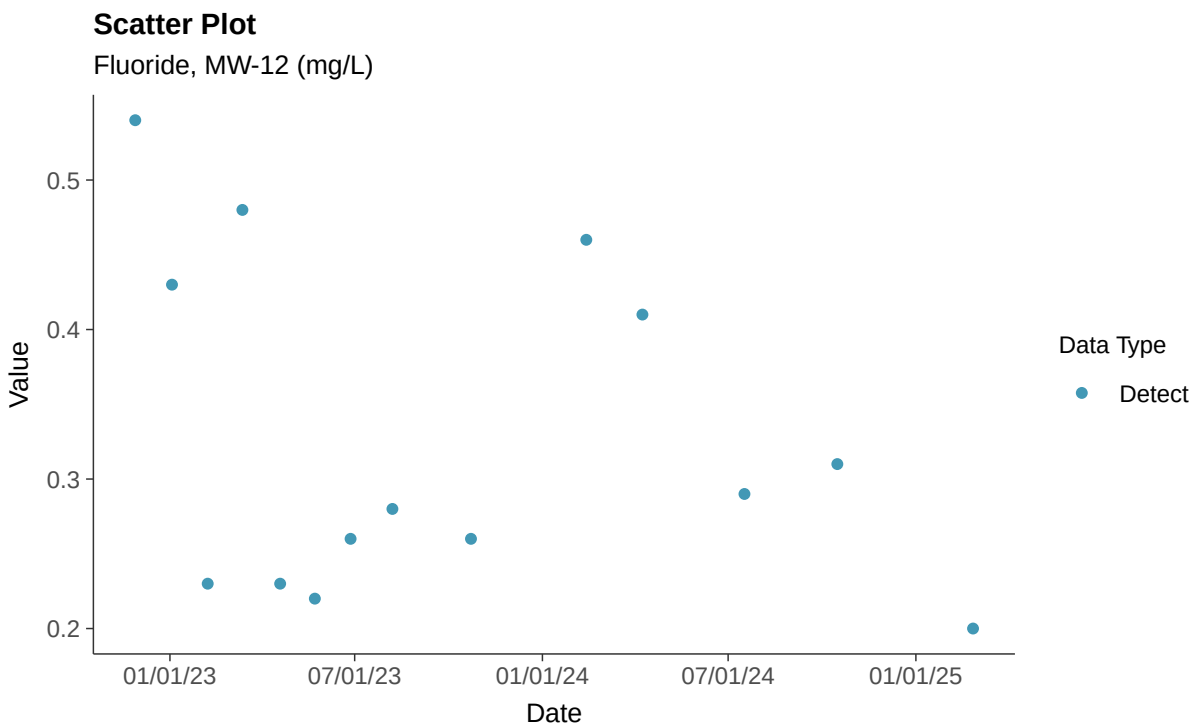


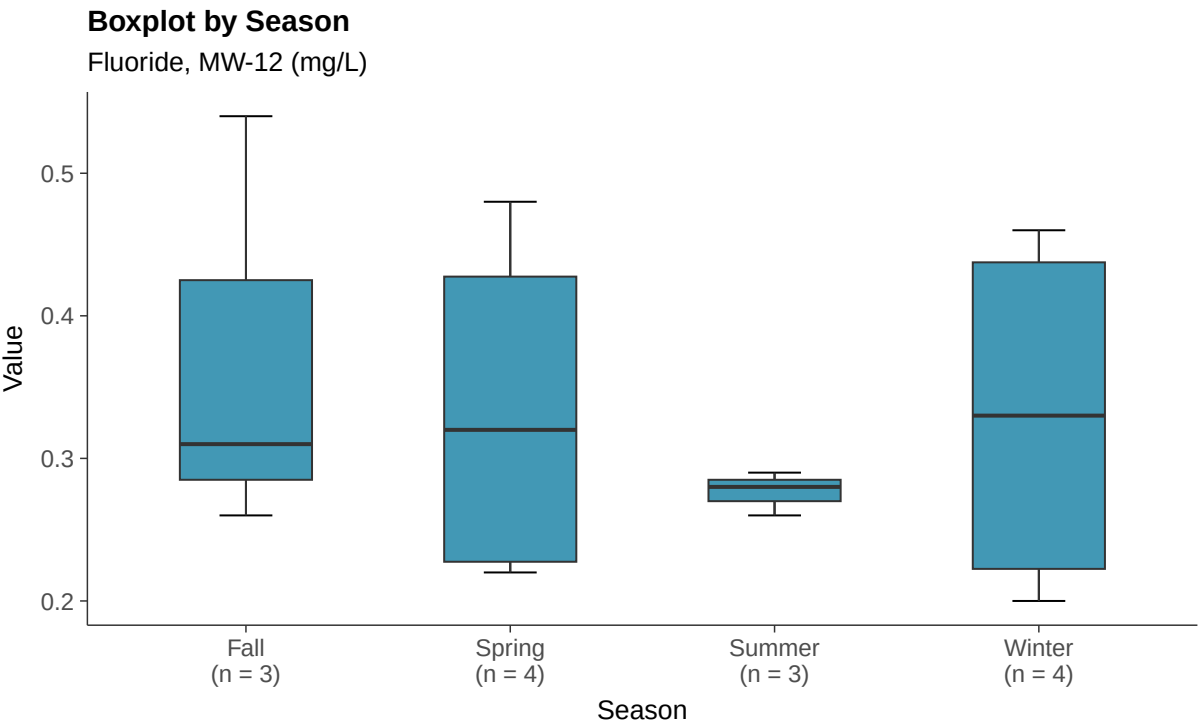
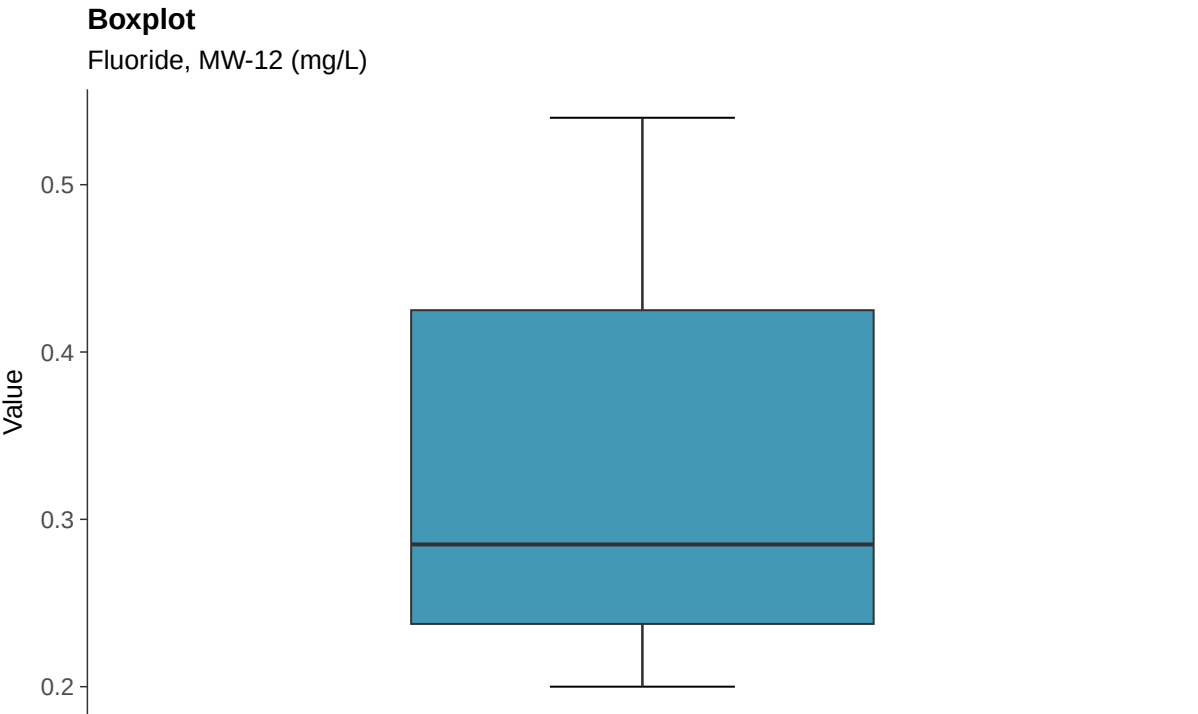


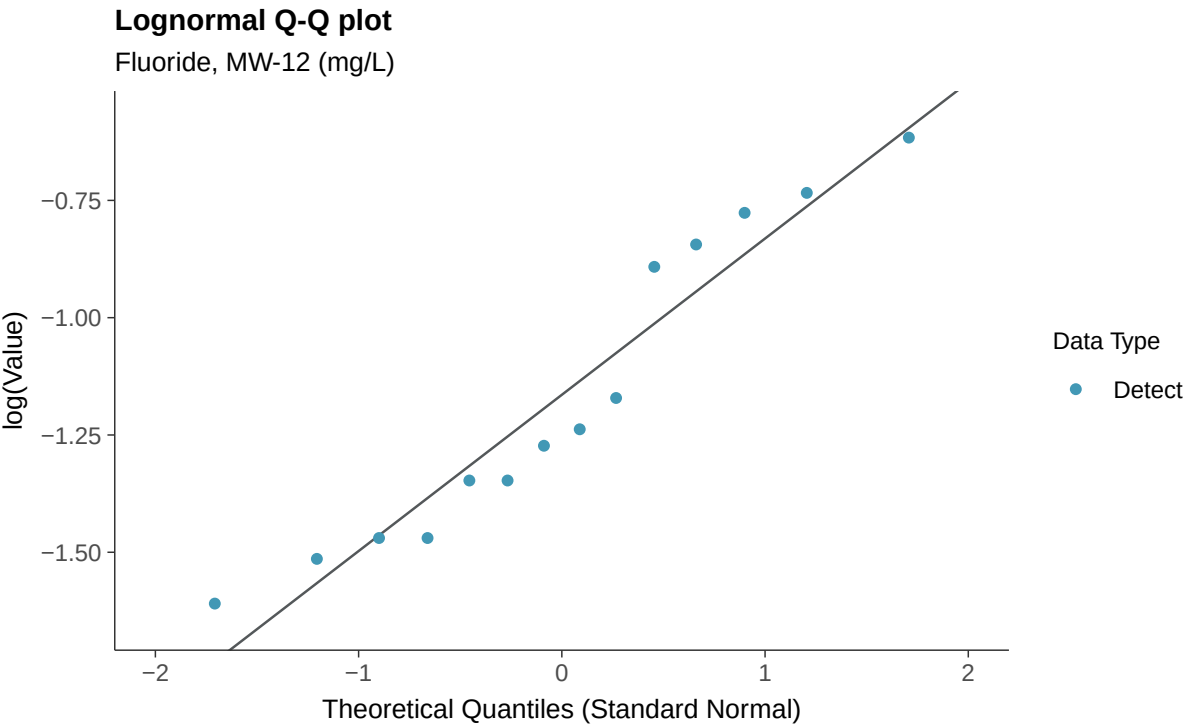
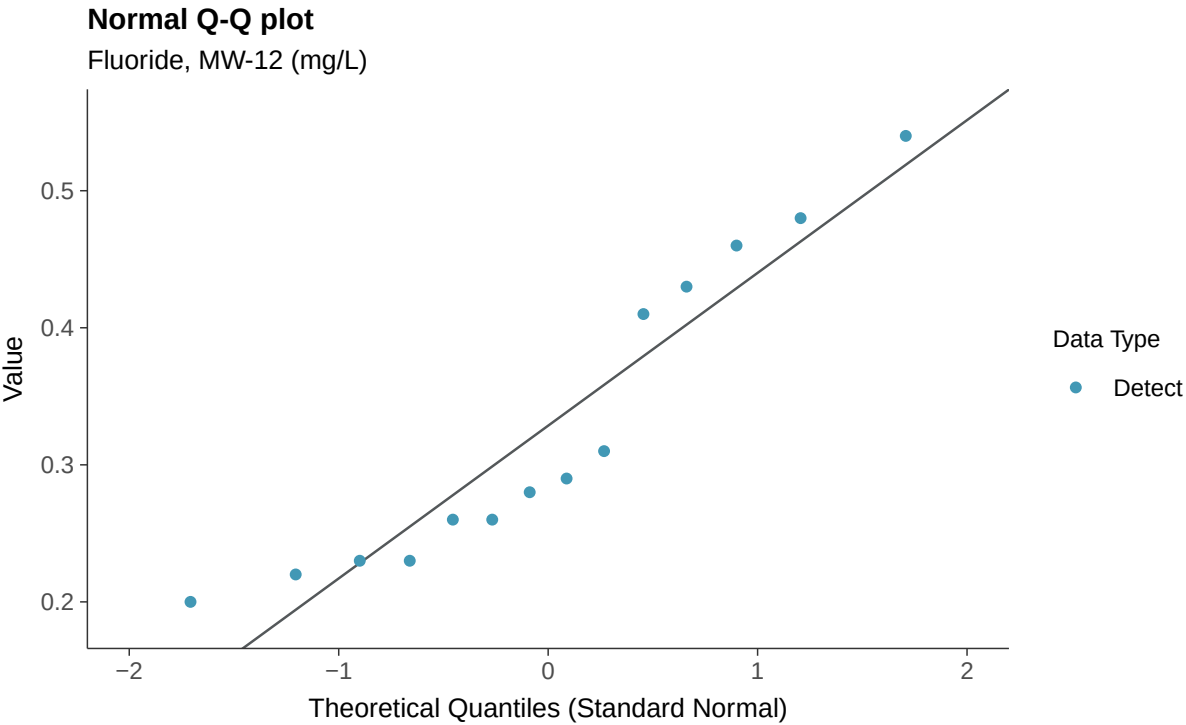


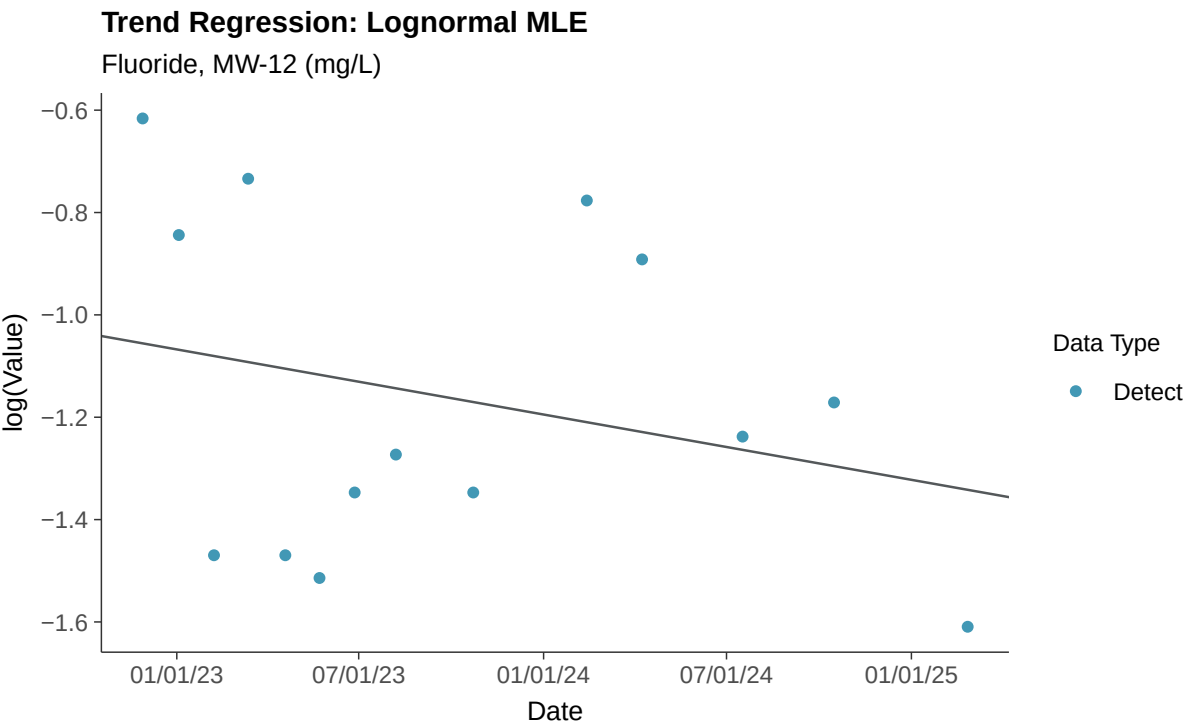
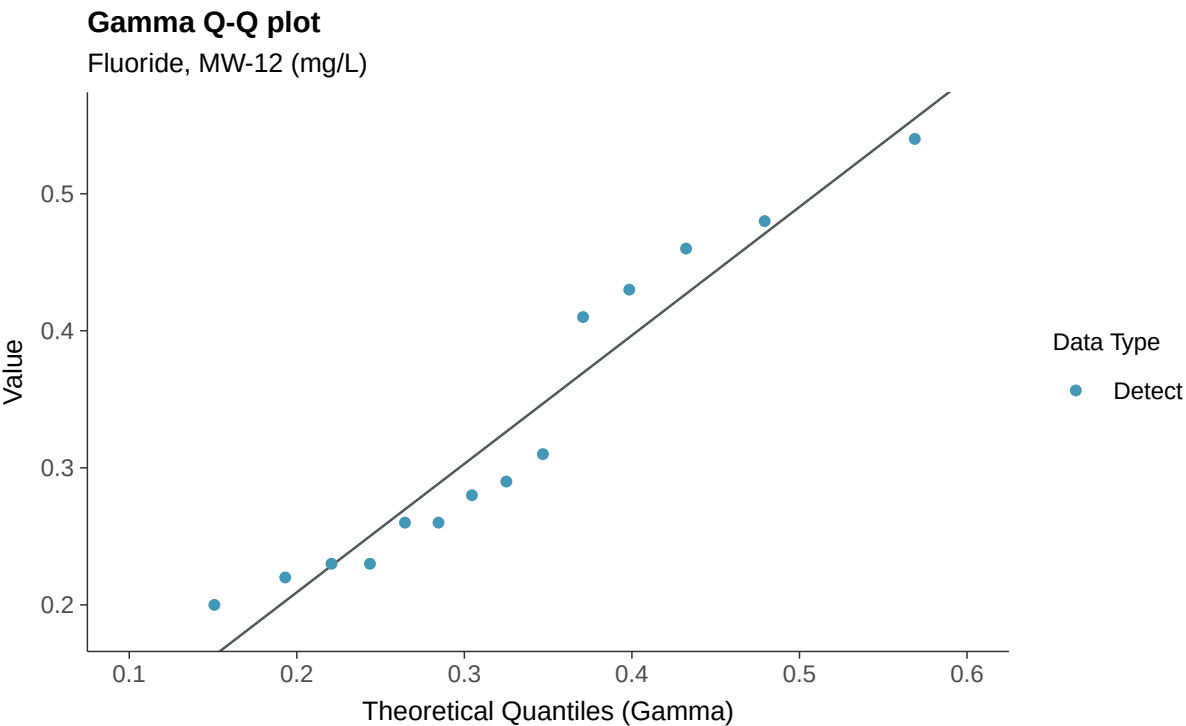
Appendix III: Fluoride, MW-12

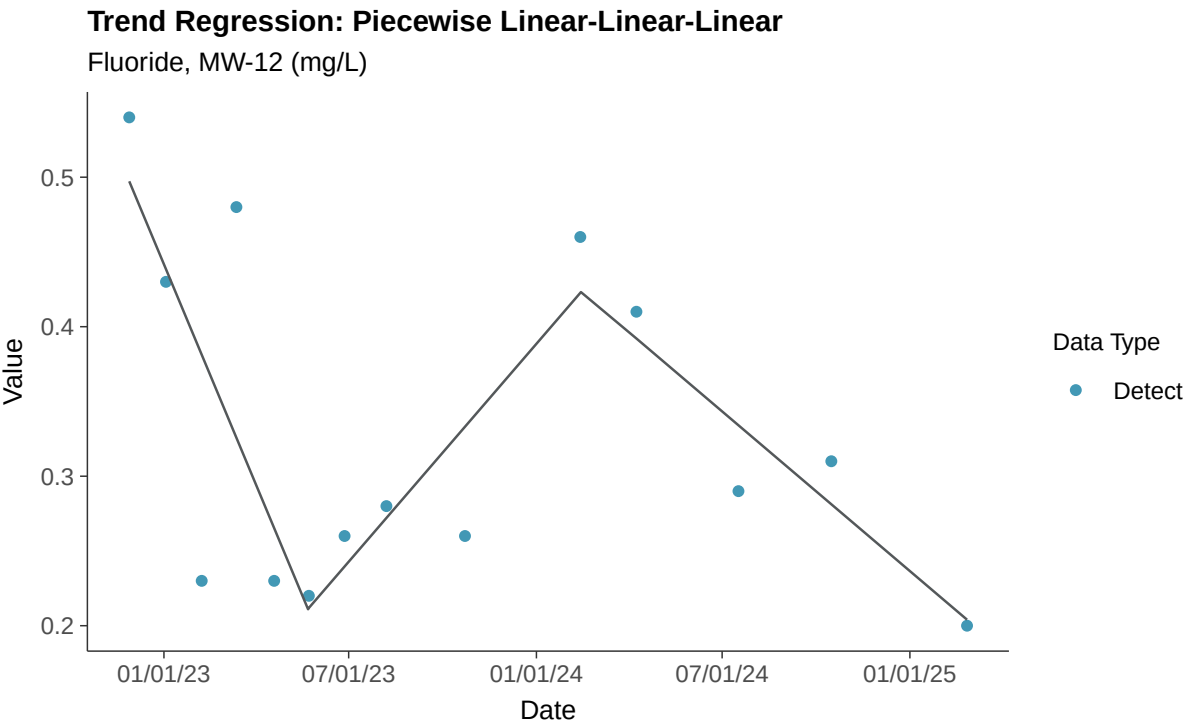
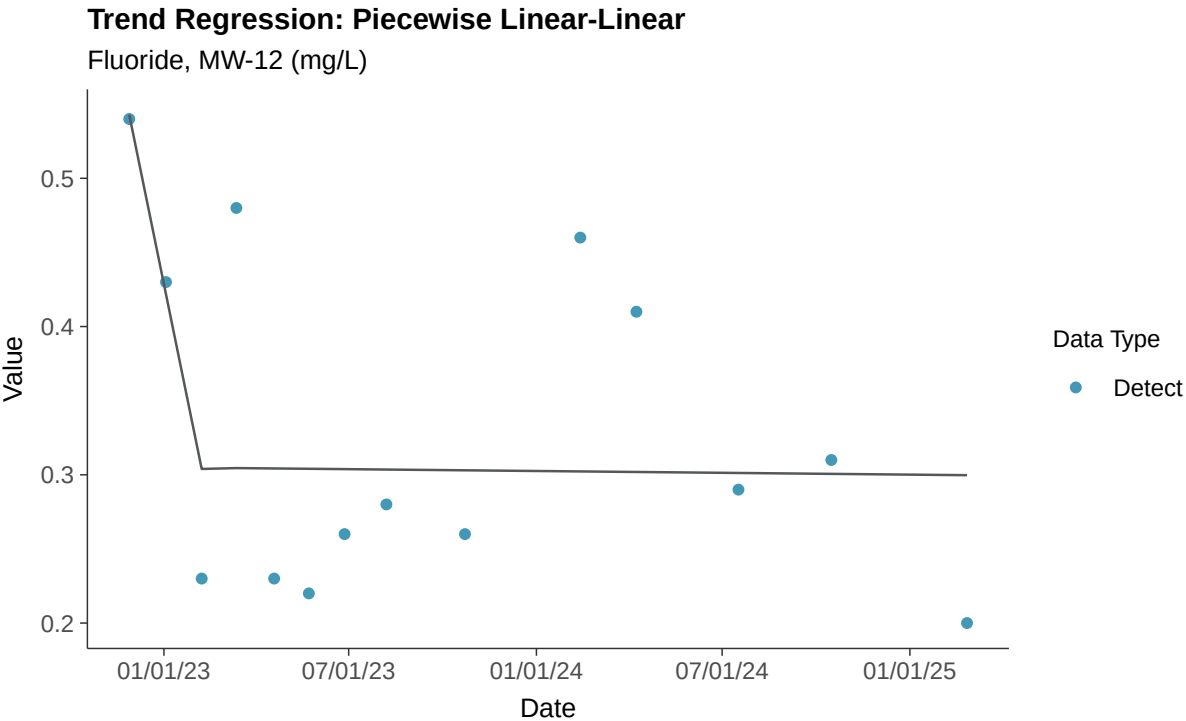
ID: 22_2_3_112







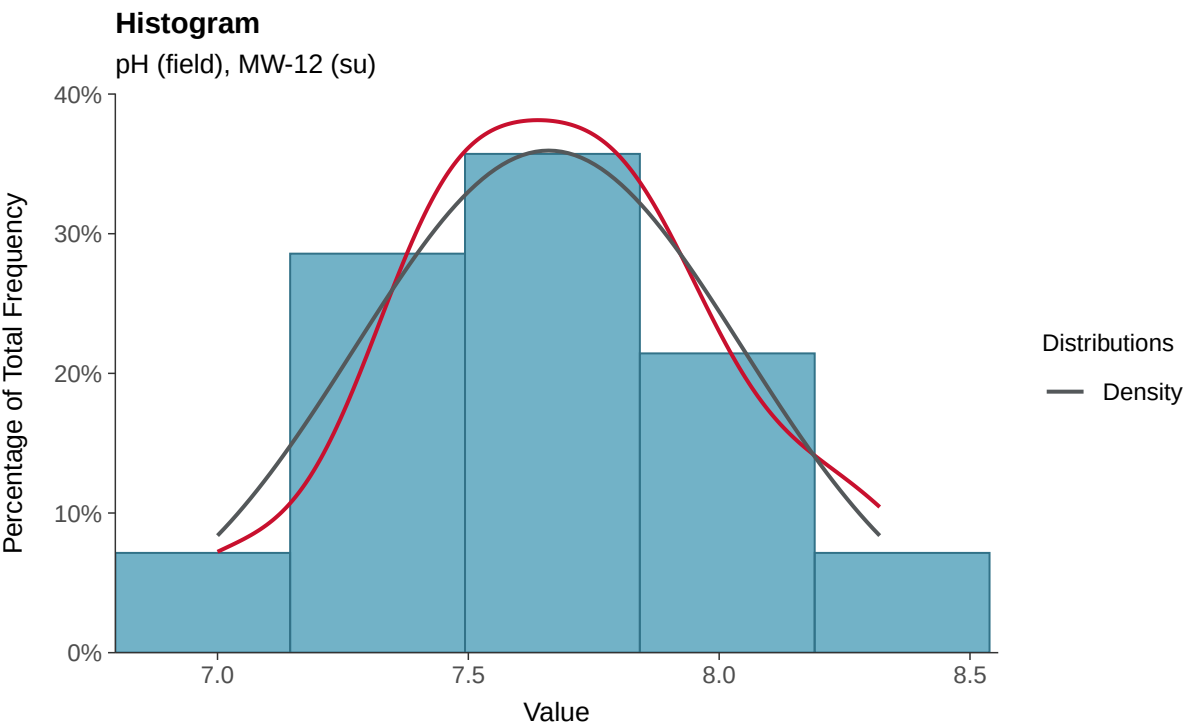
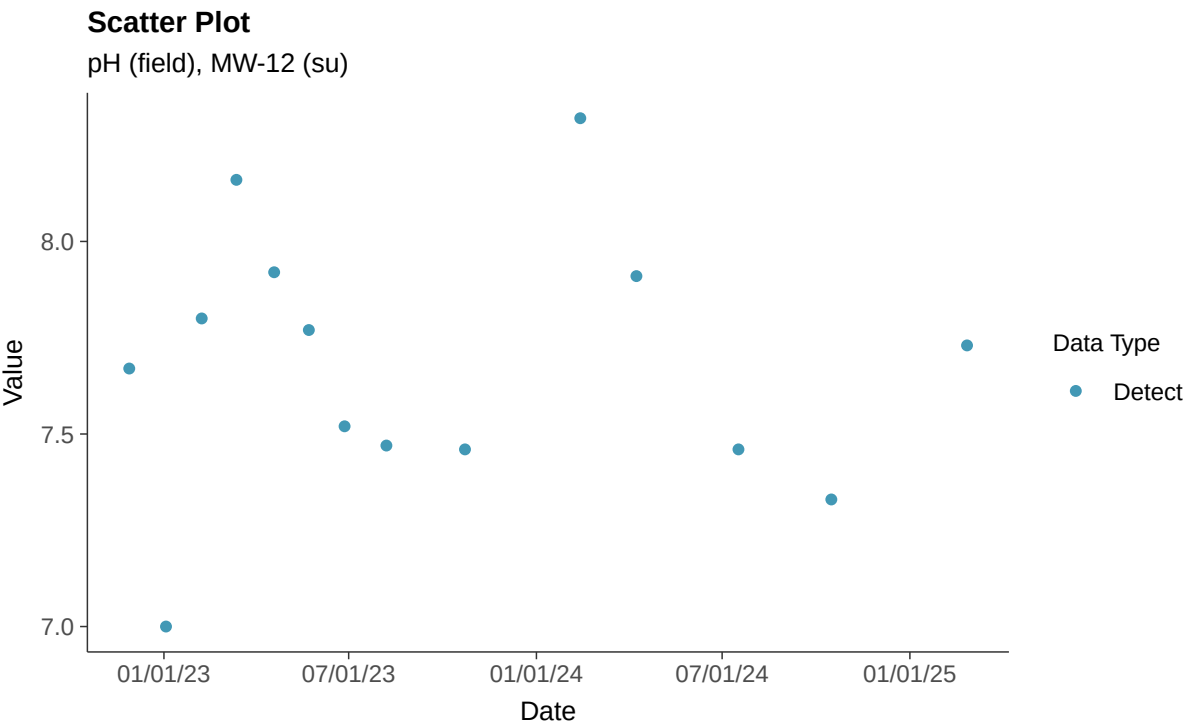


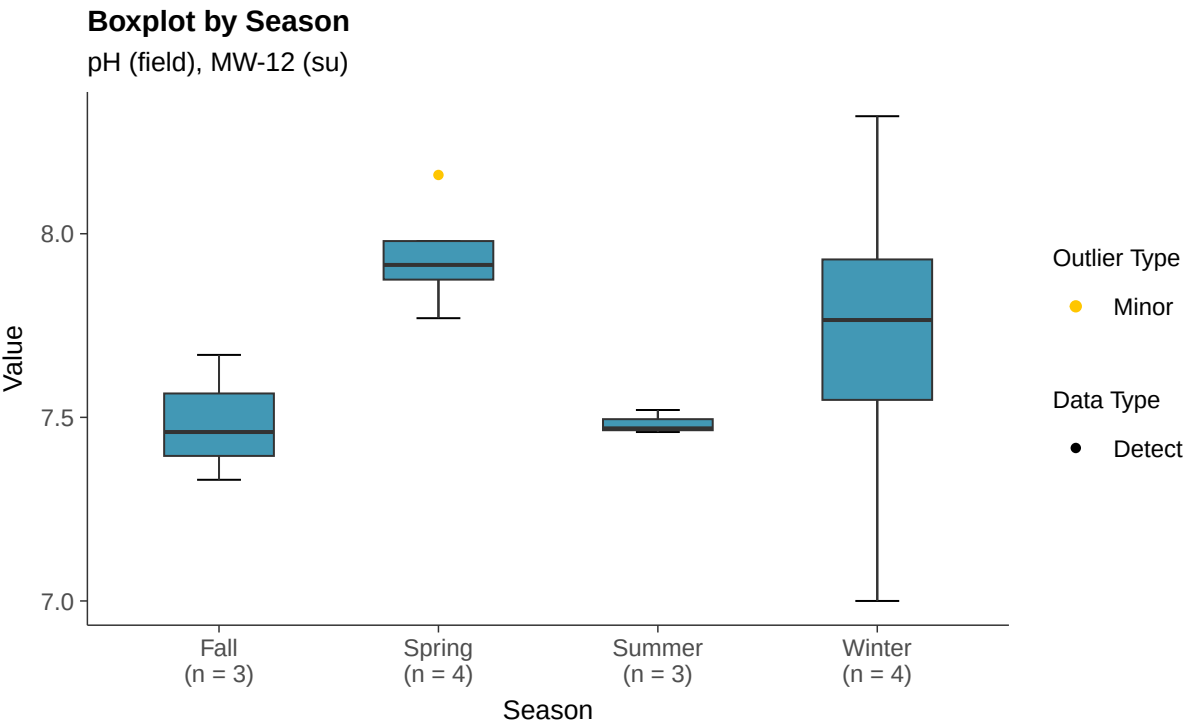
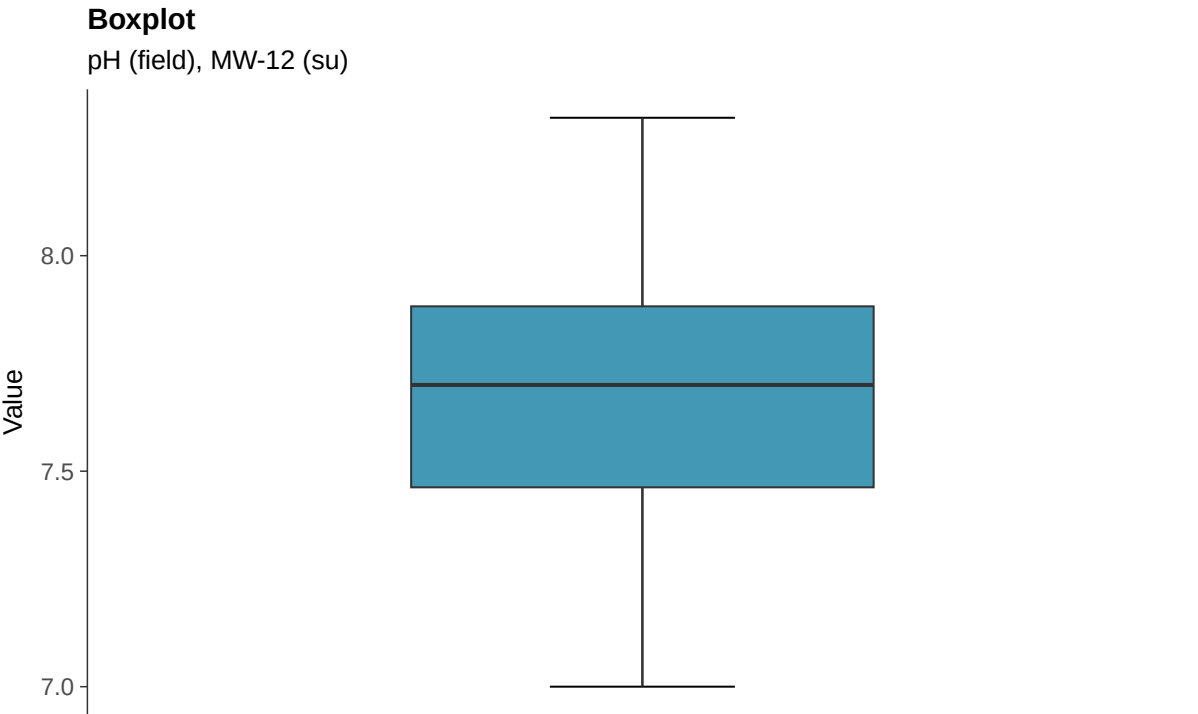


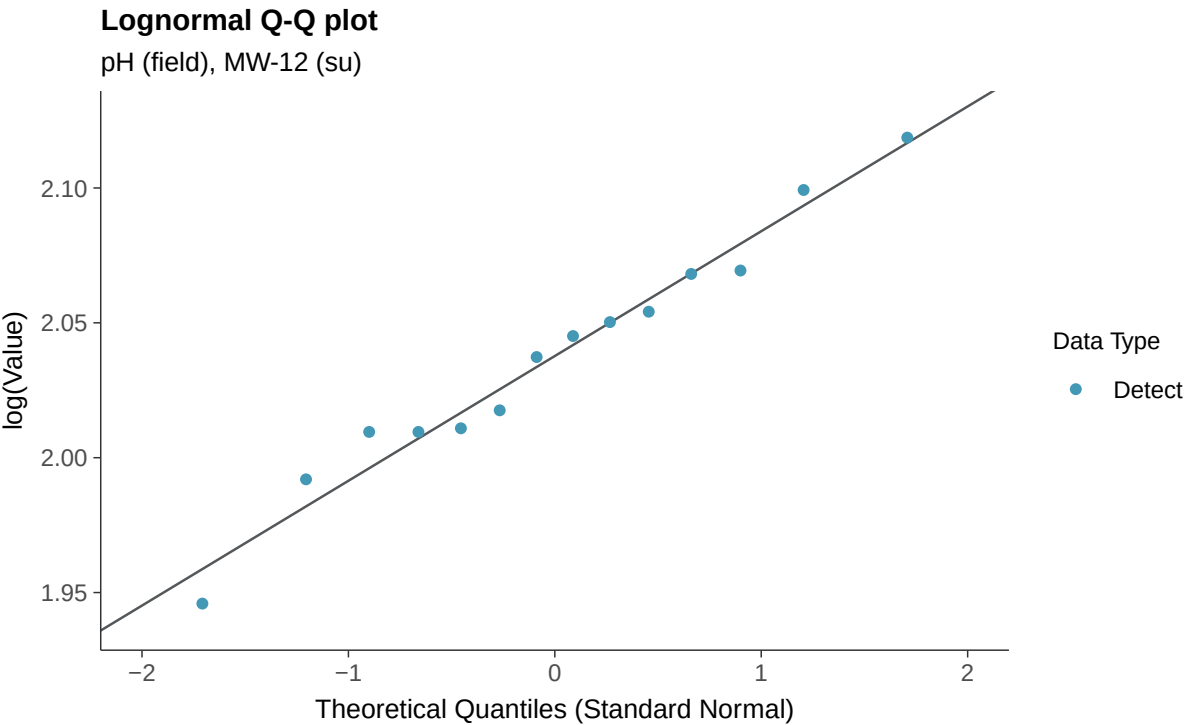
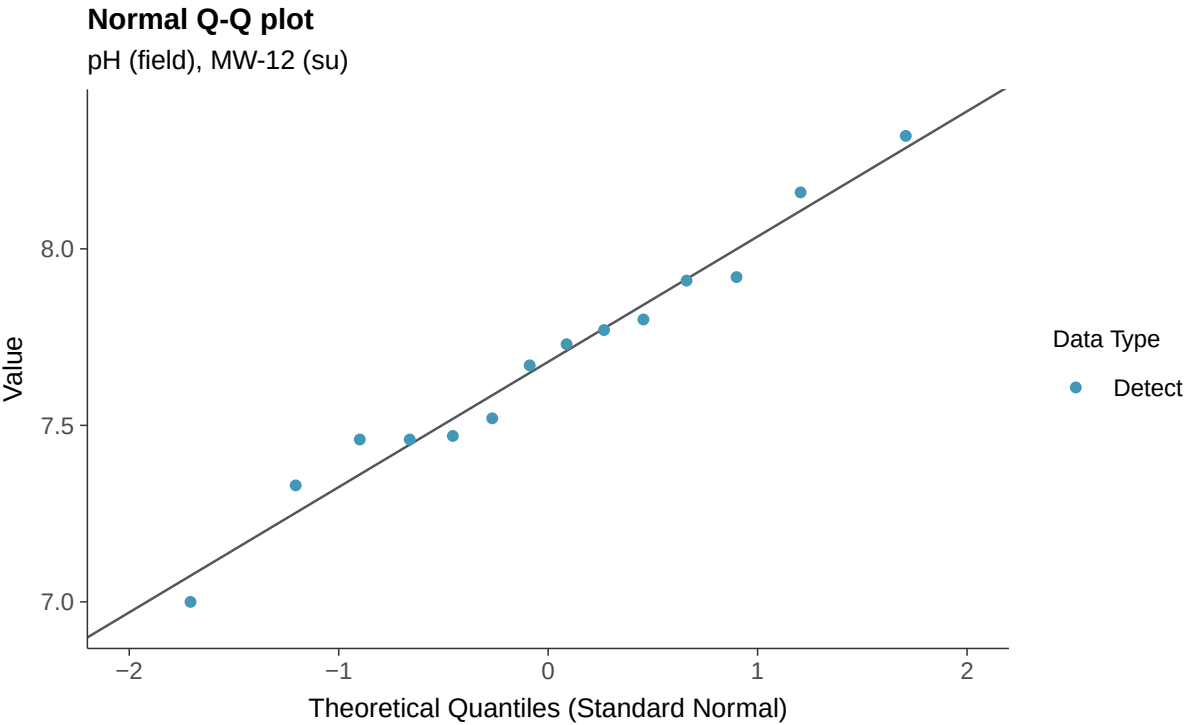


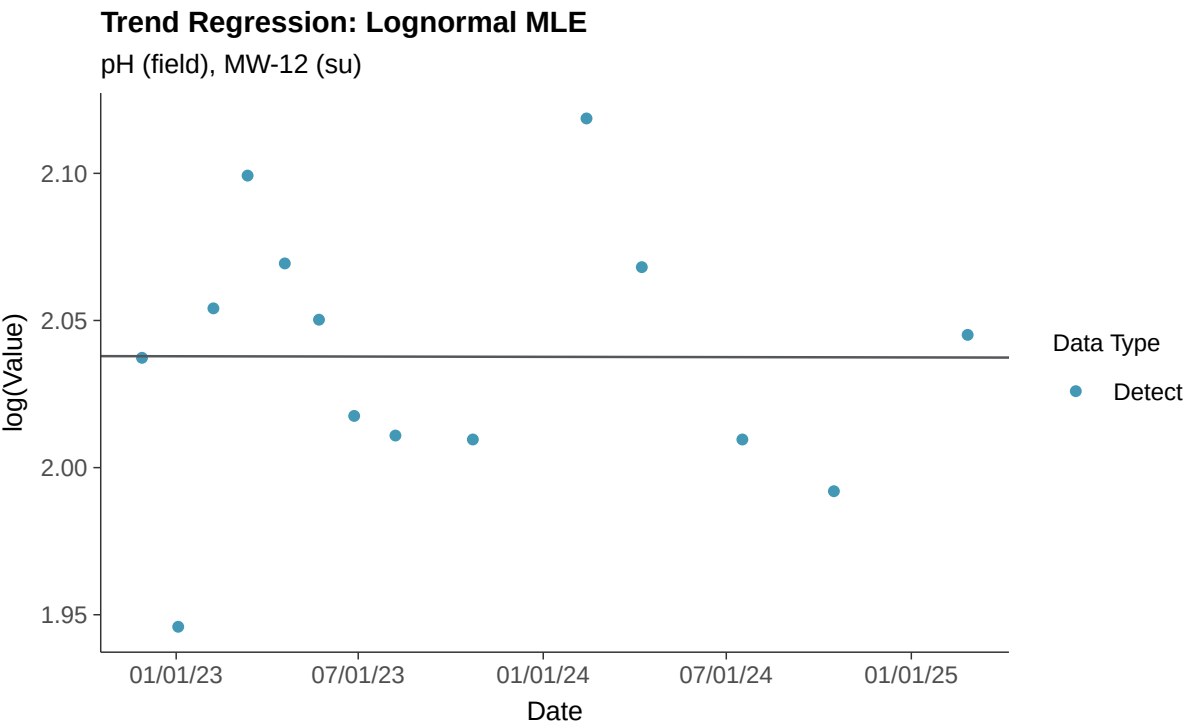
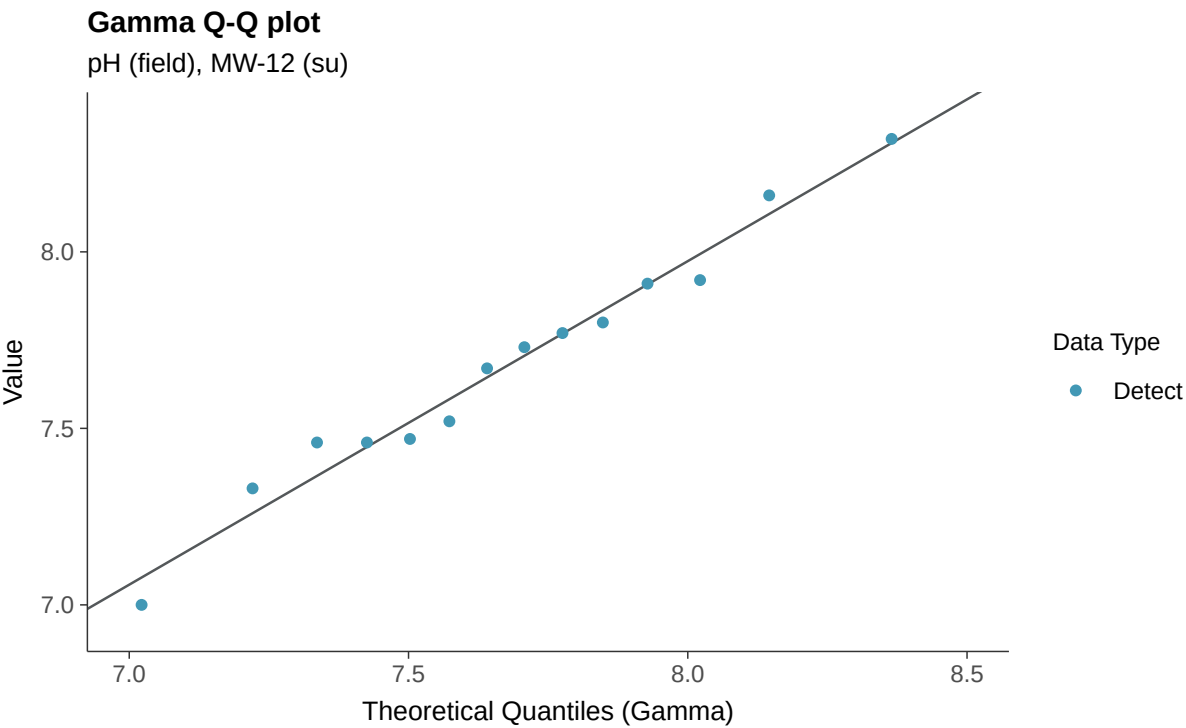
Appendix III: pH (field), MW-12

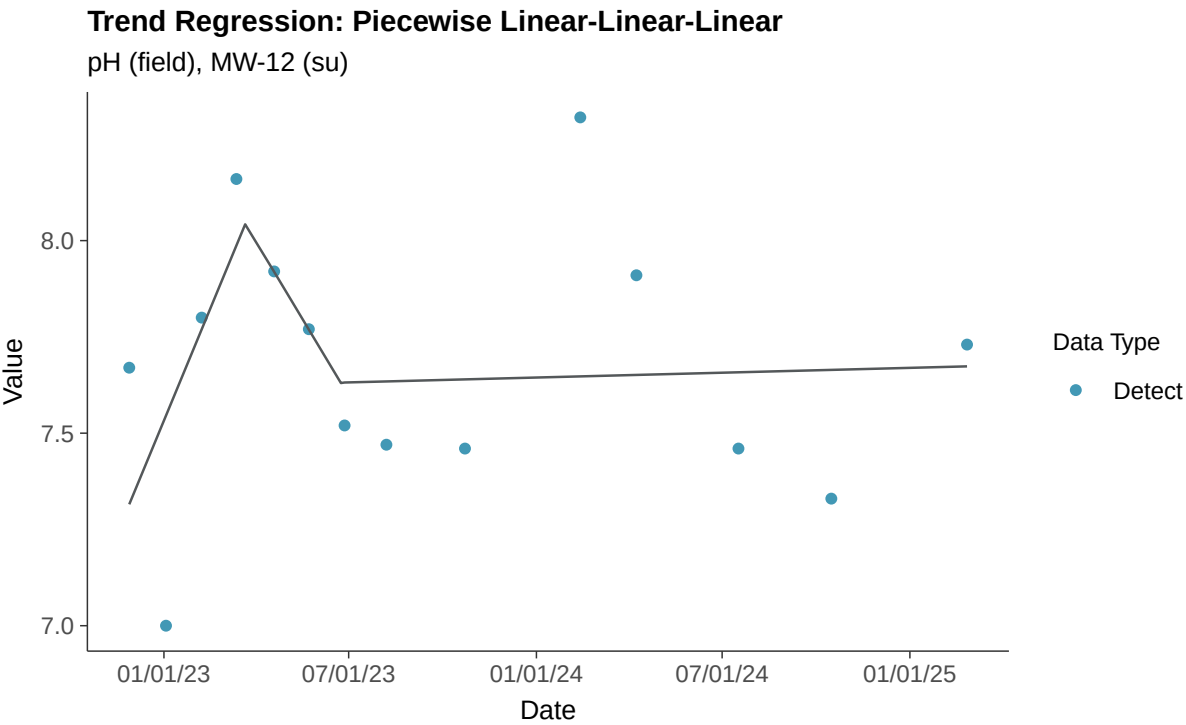
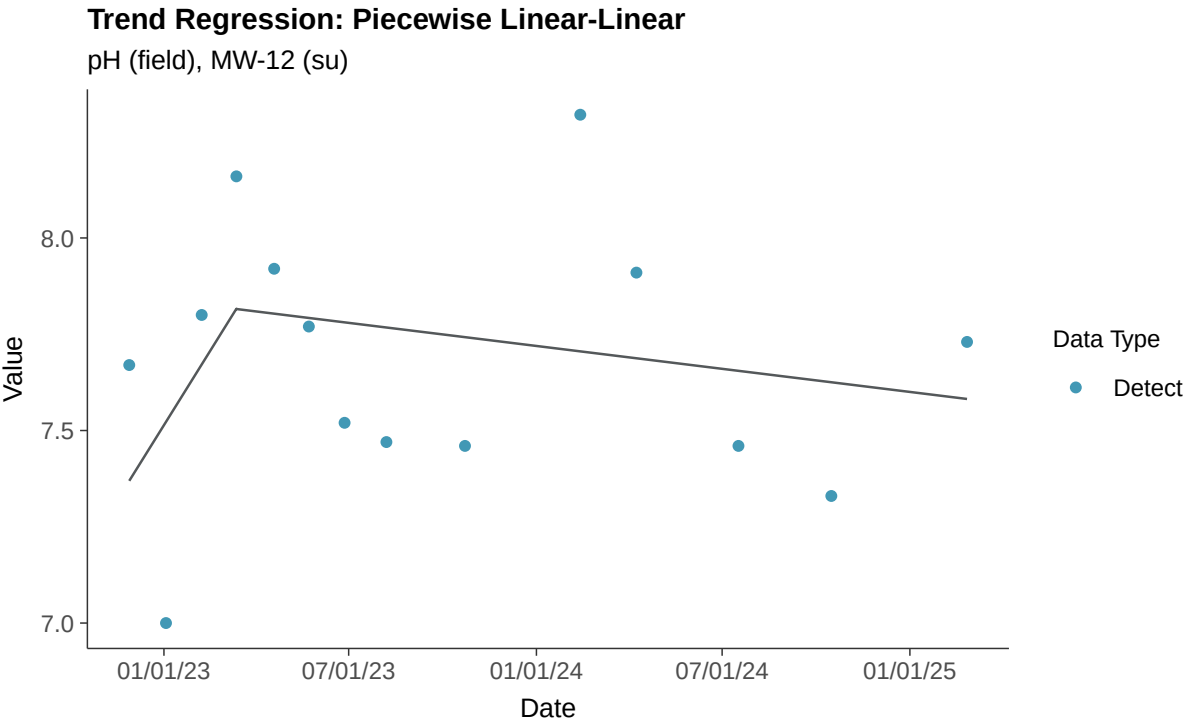
ID: 22_2_3_120







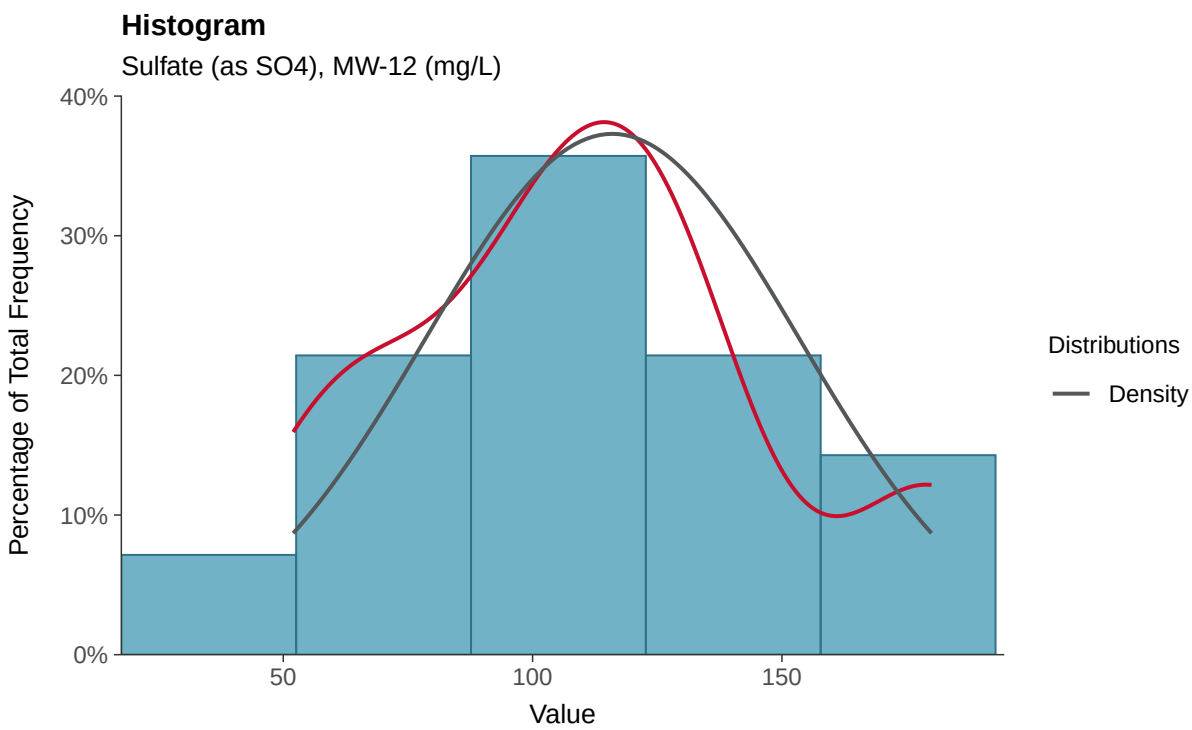
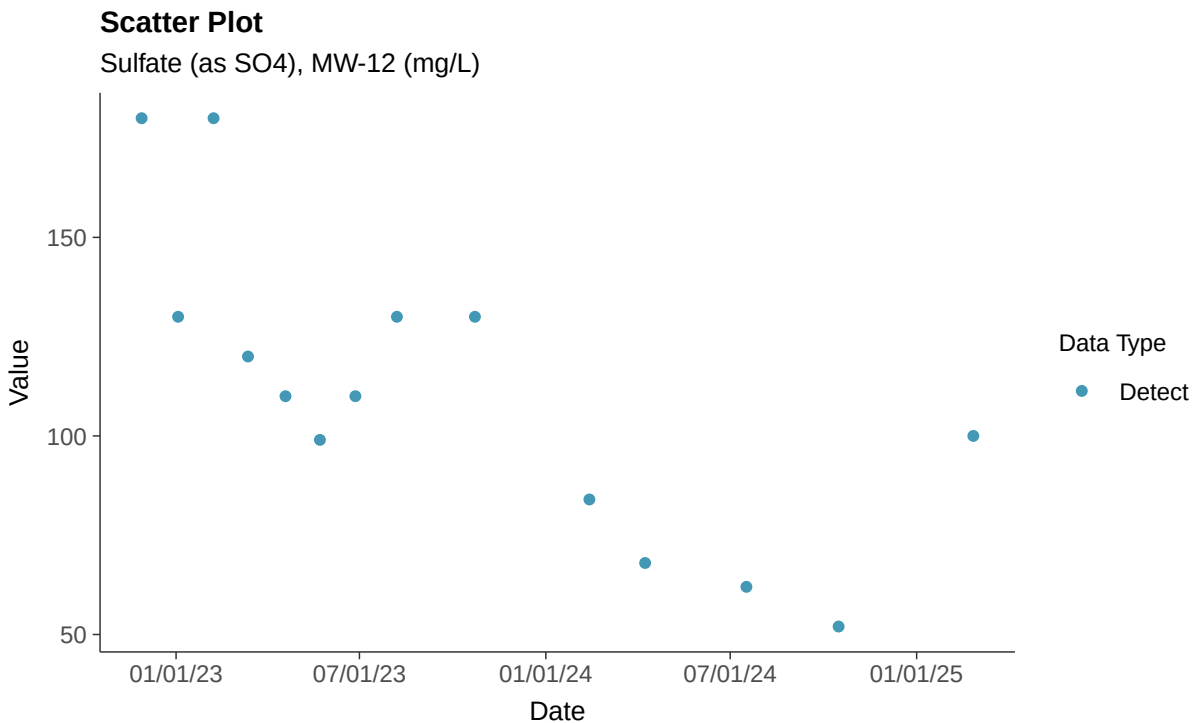


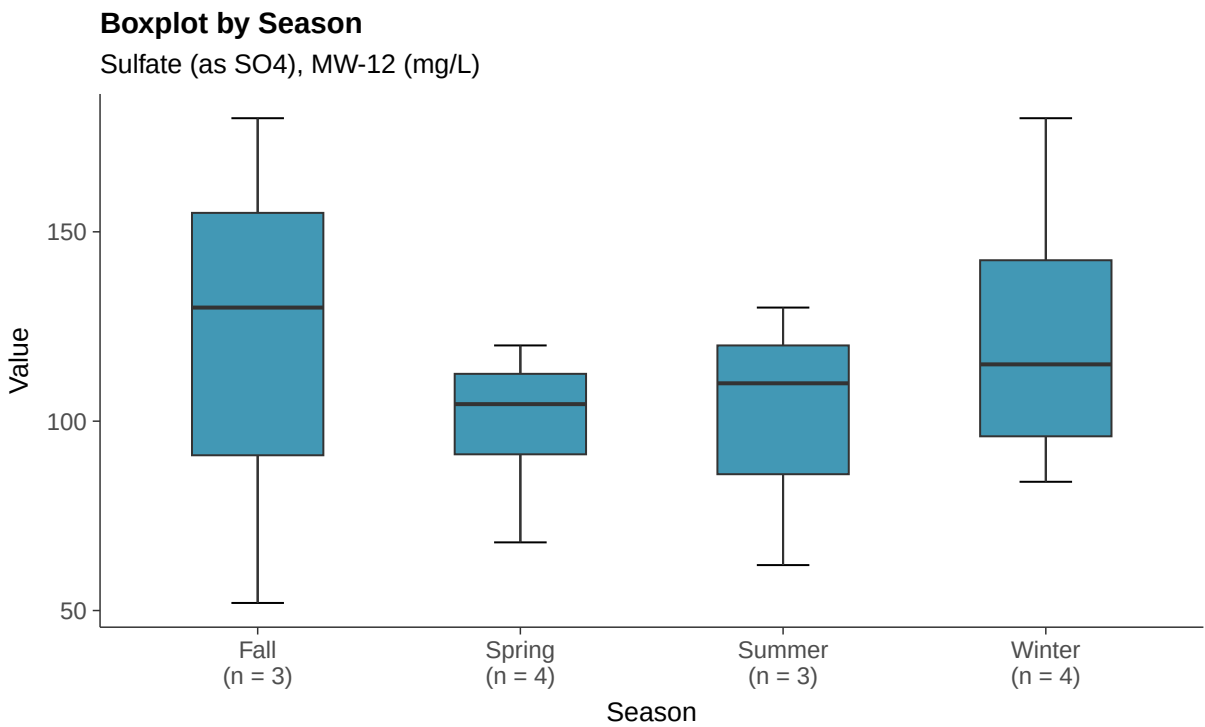
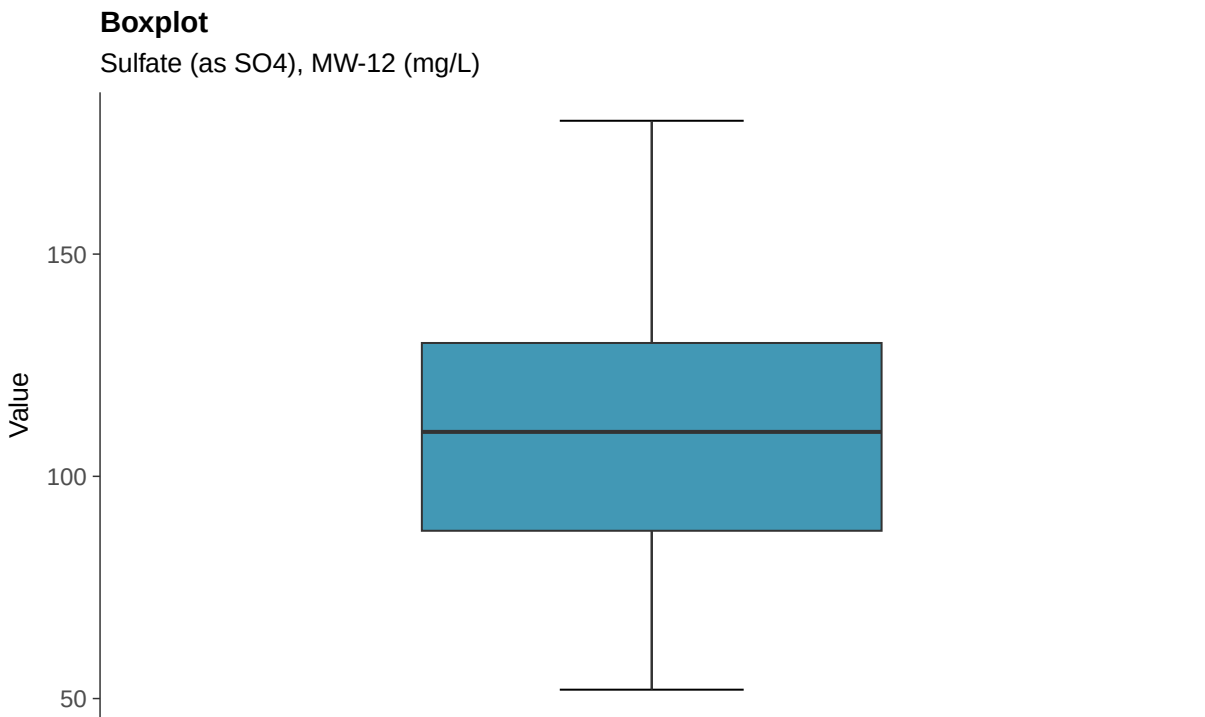


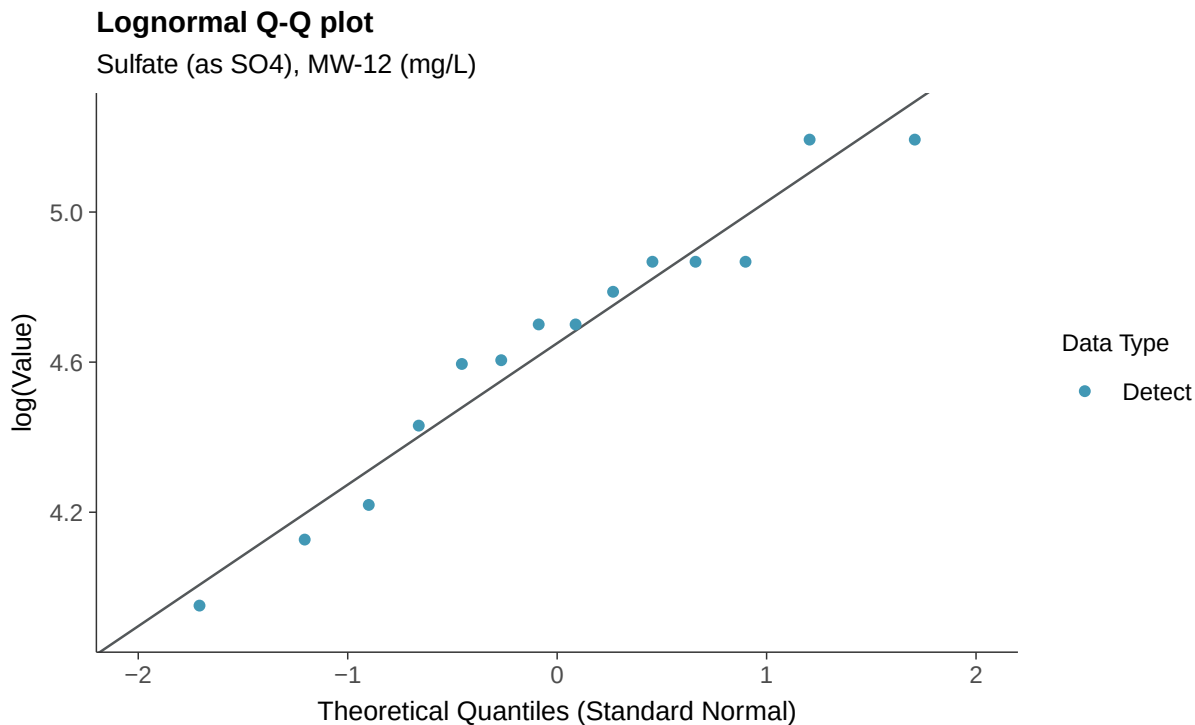
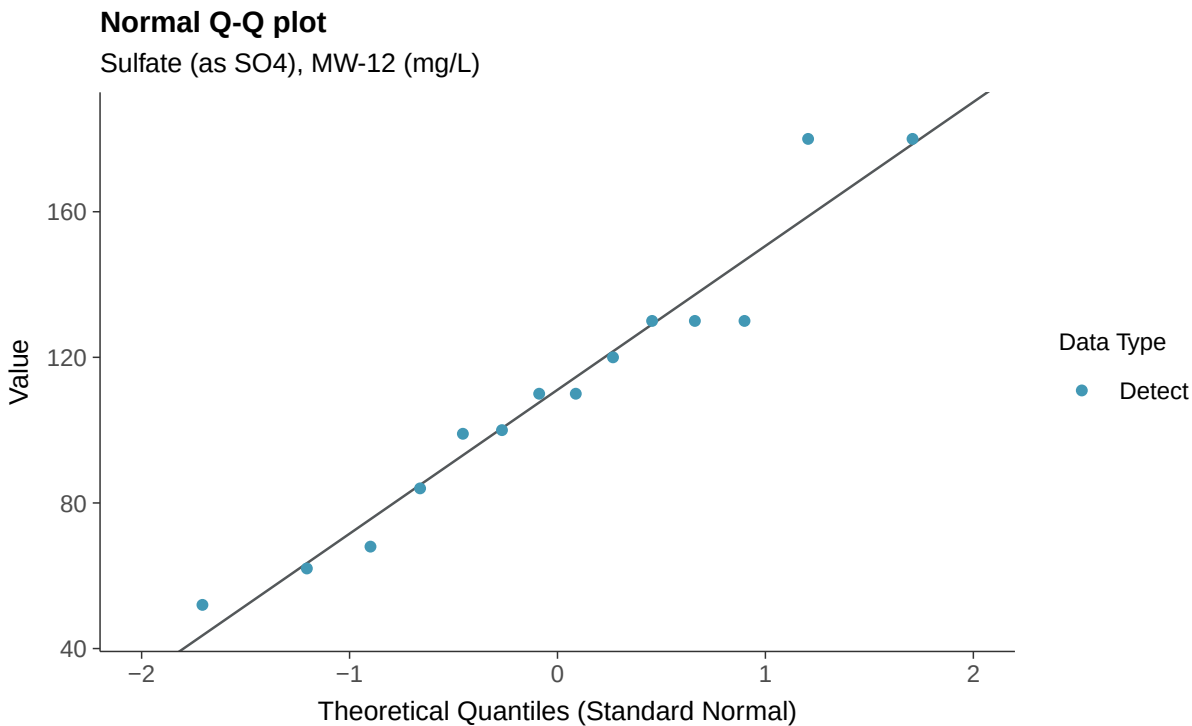


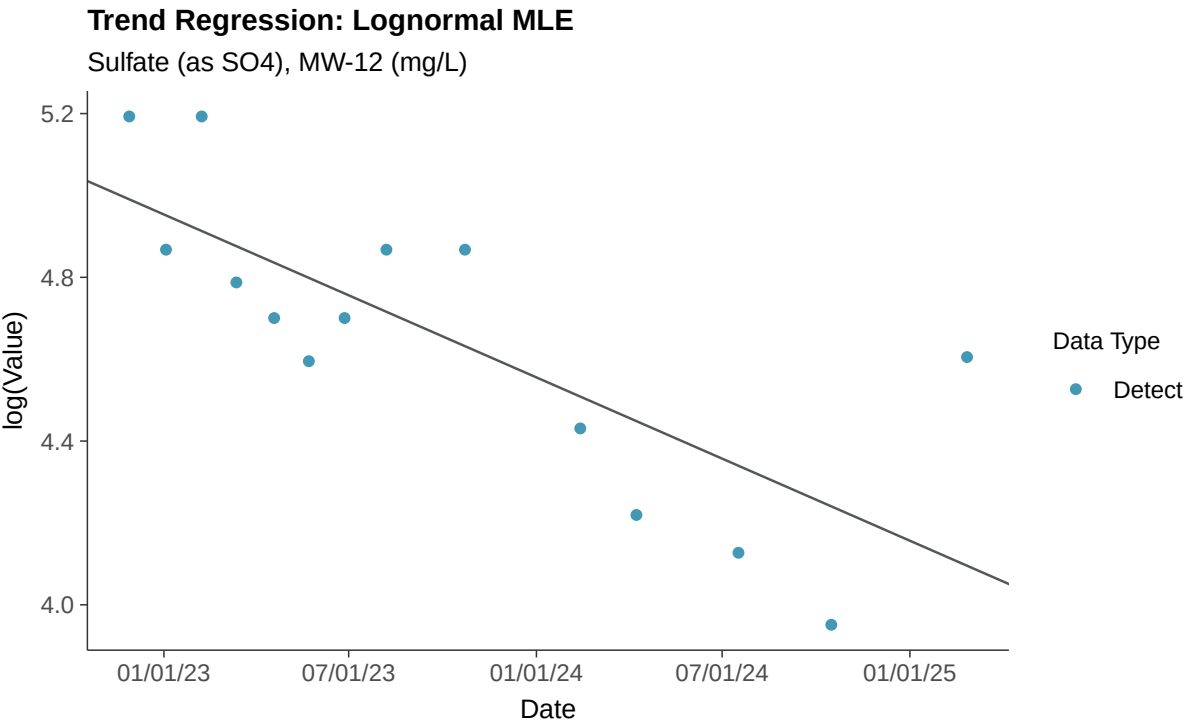
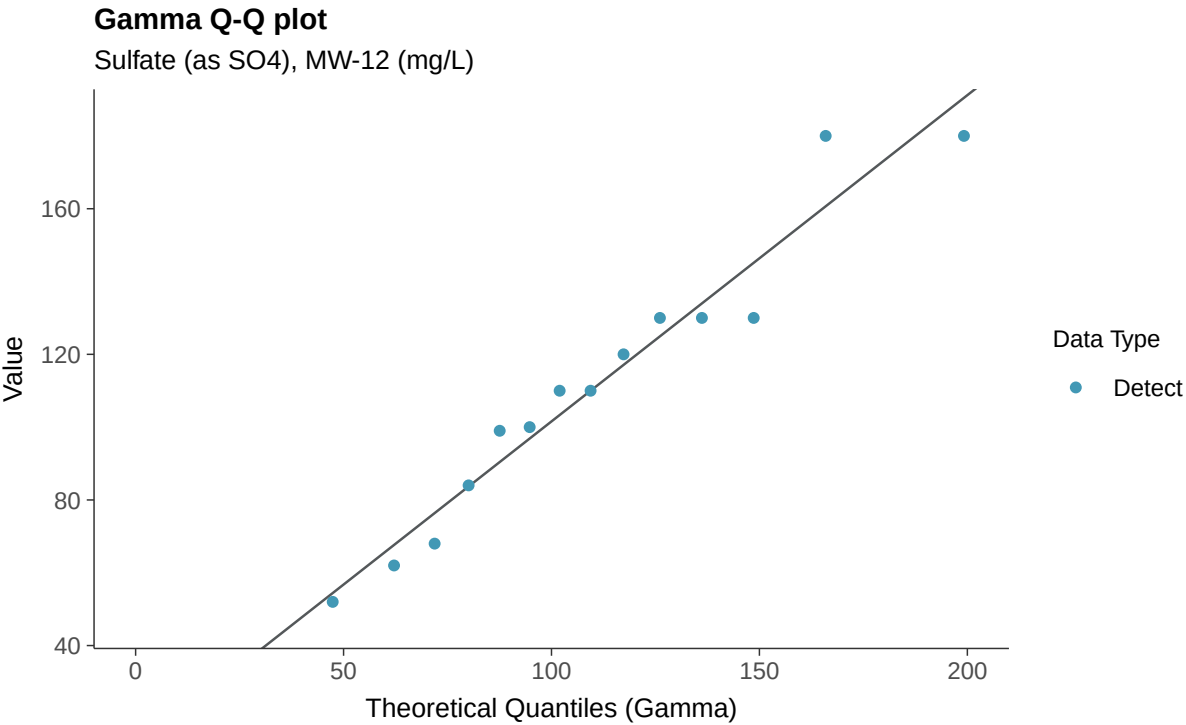
Appendix III: Sulfate (as SO₄), MW-12

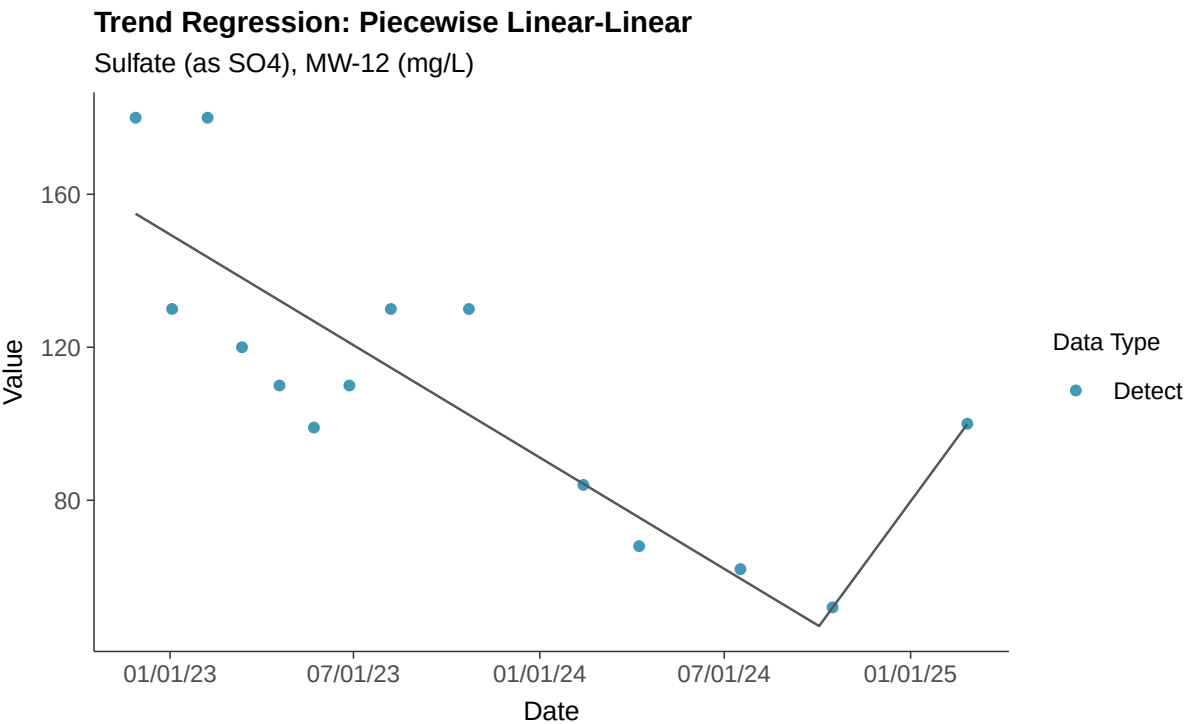
ID: 22_2_3_124







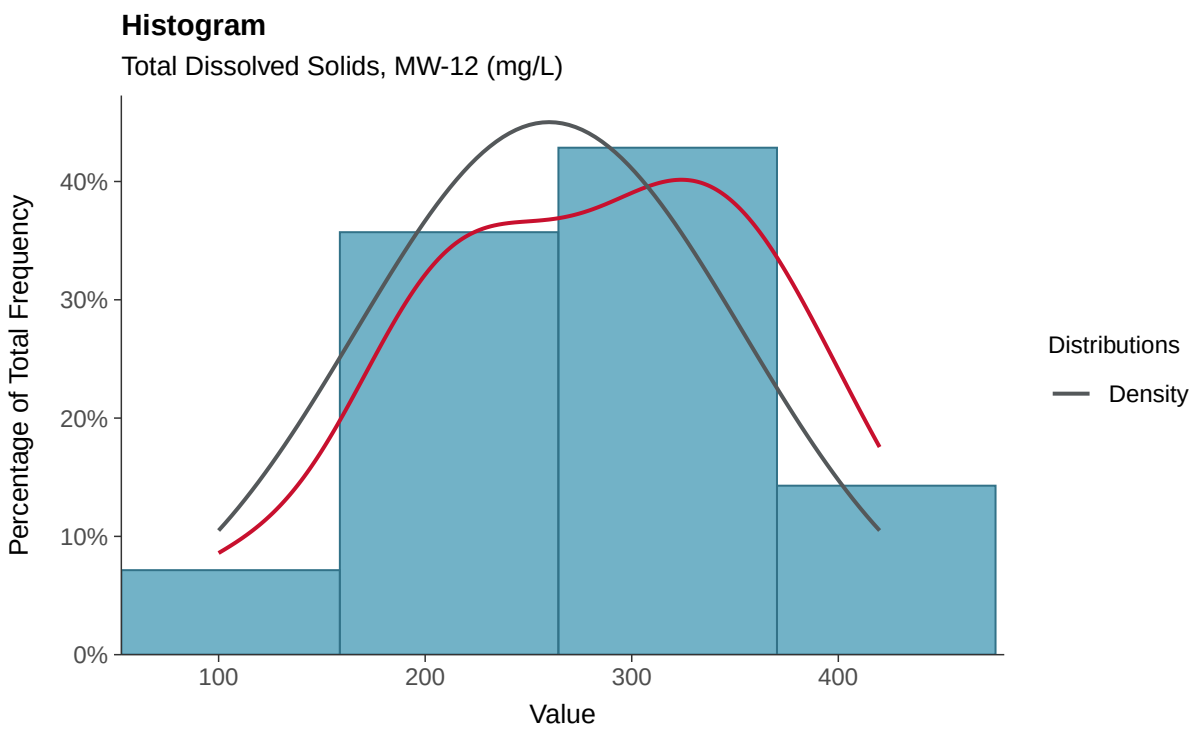
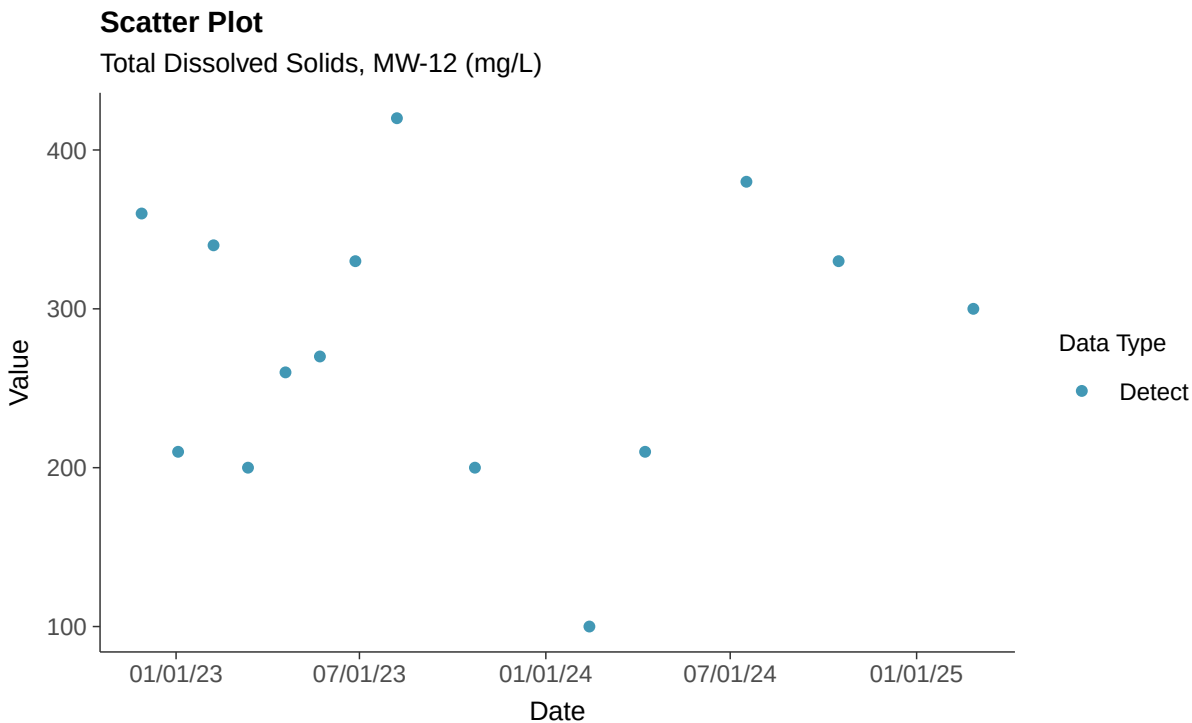


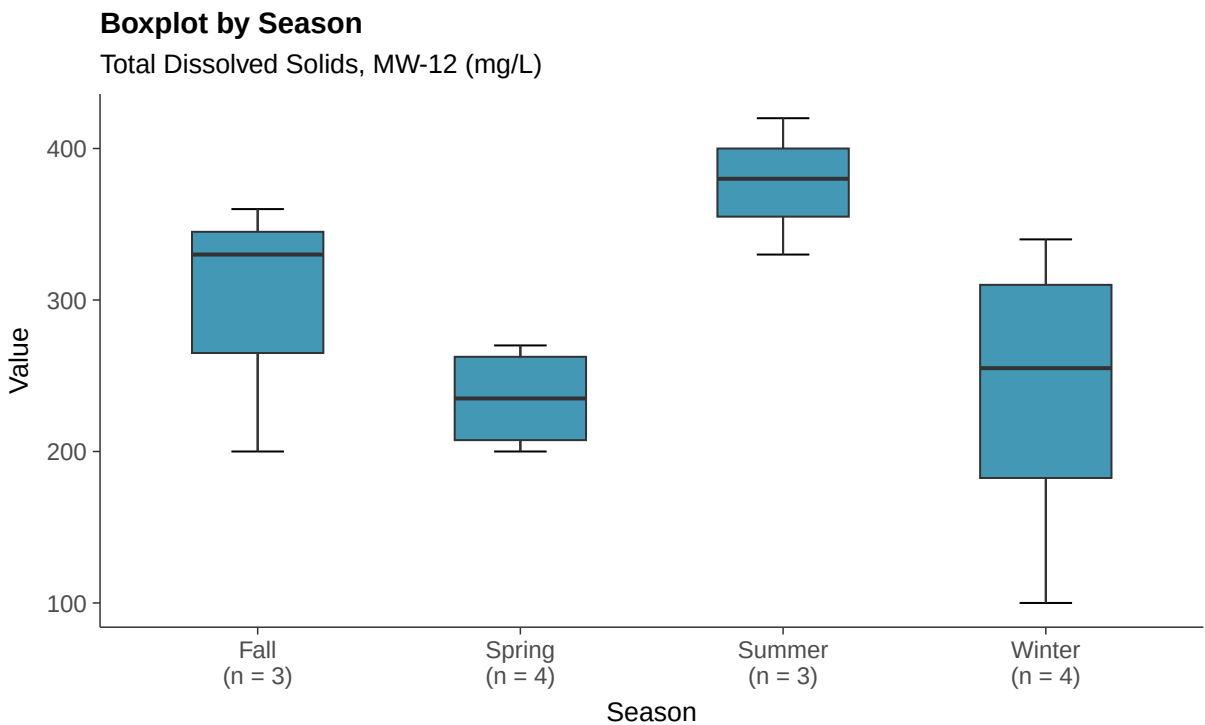
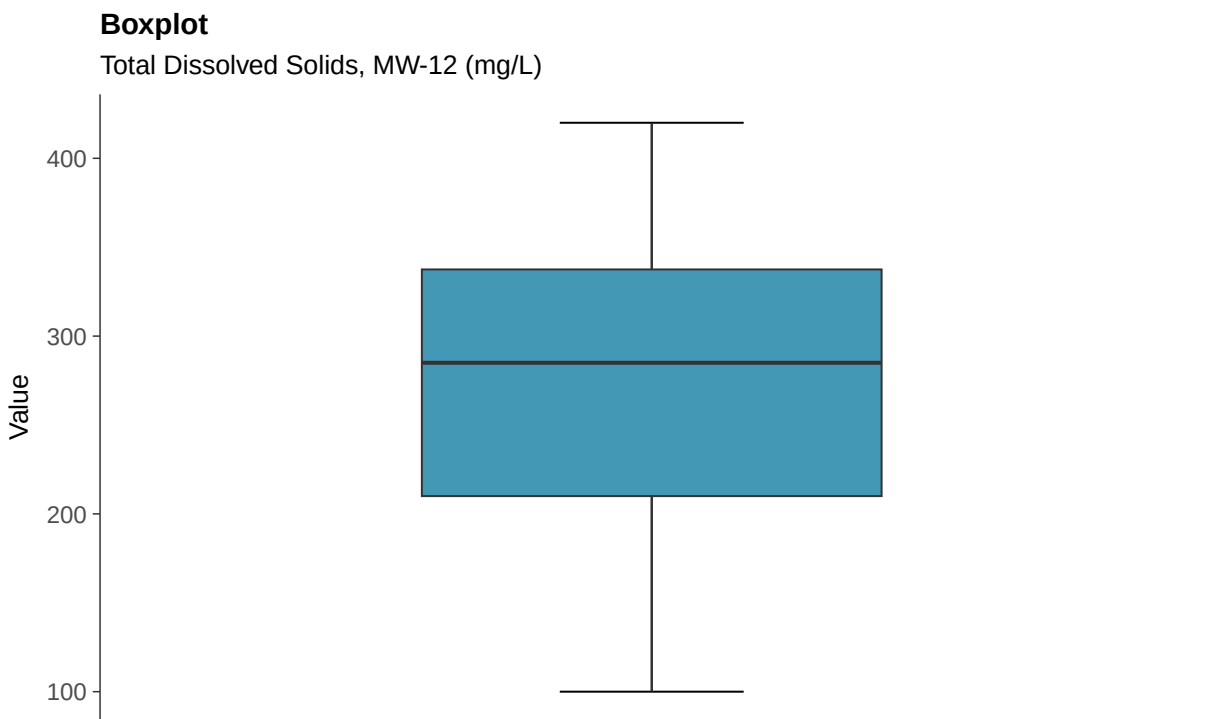


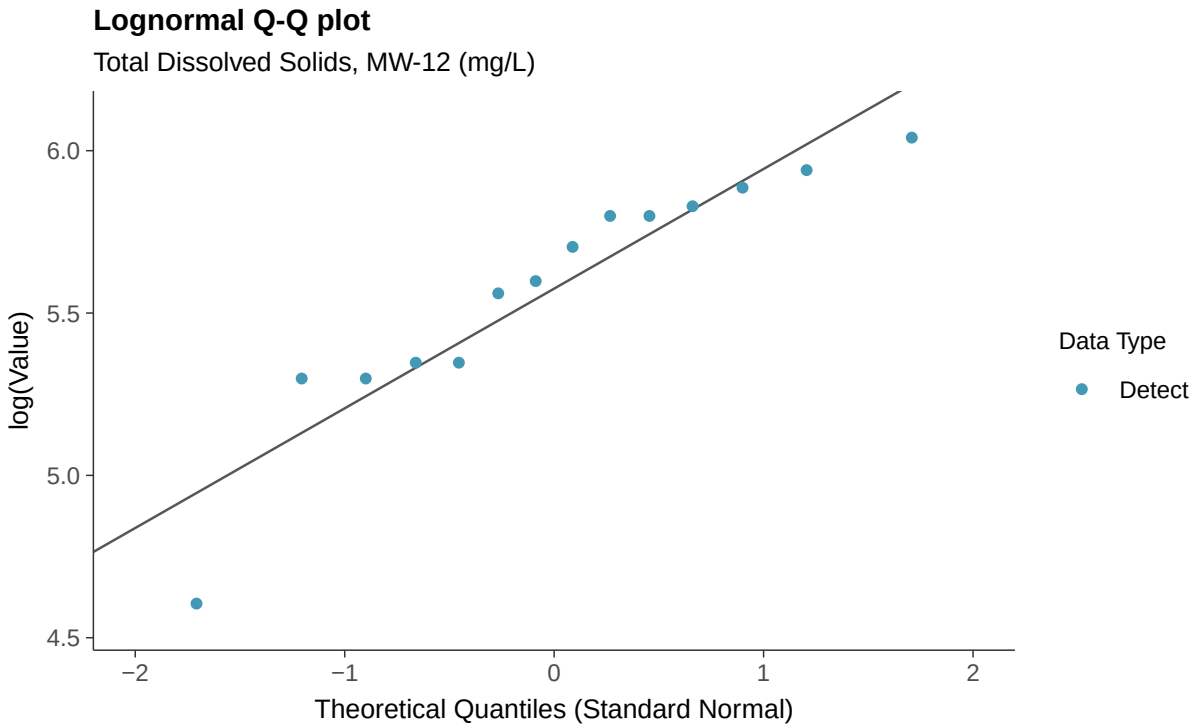
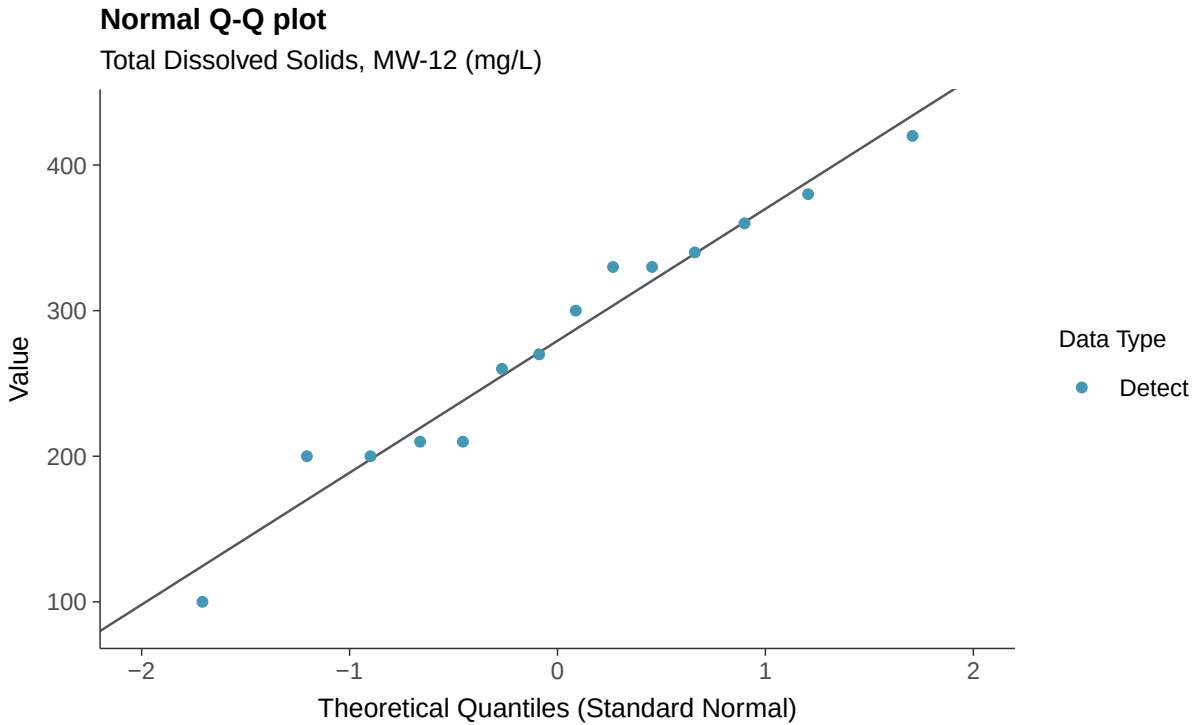


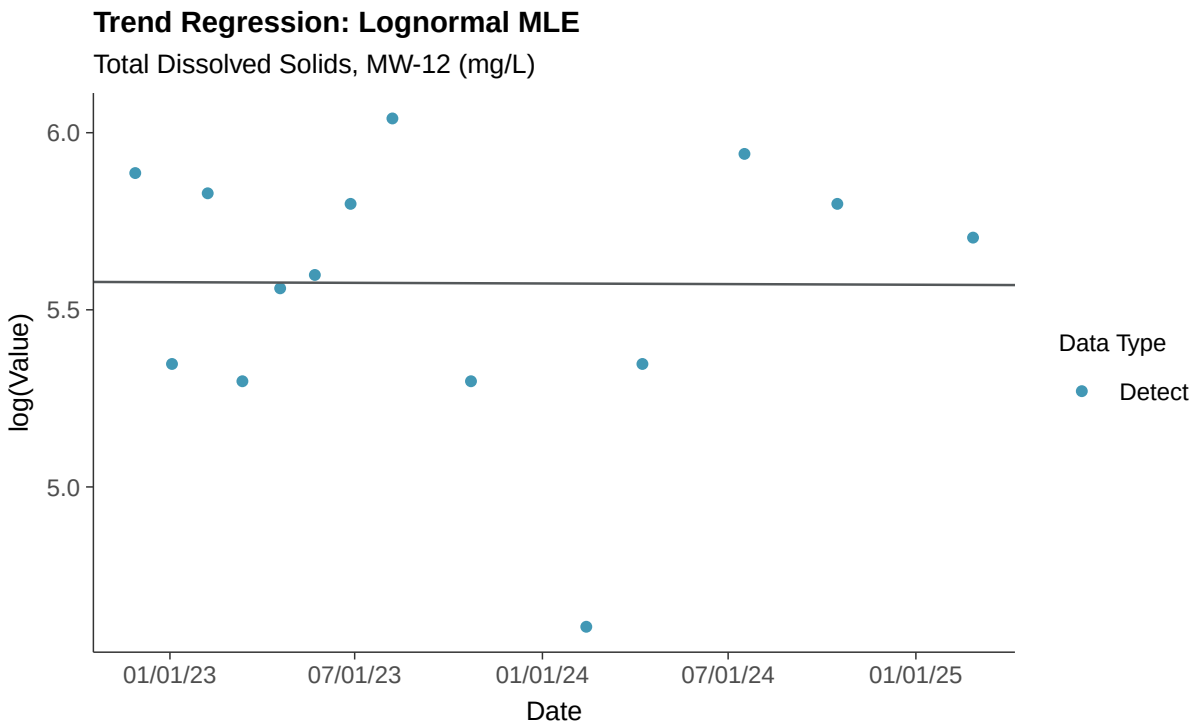
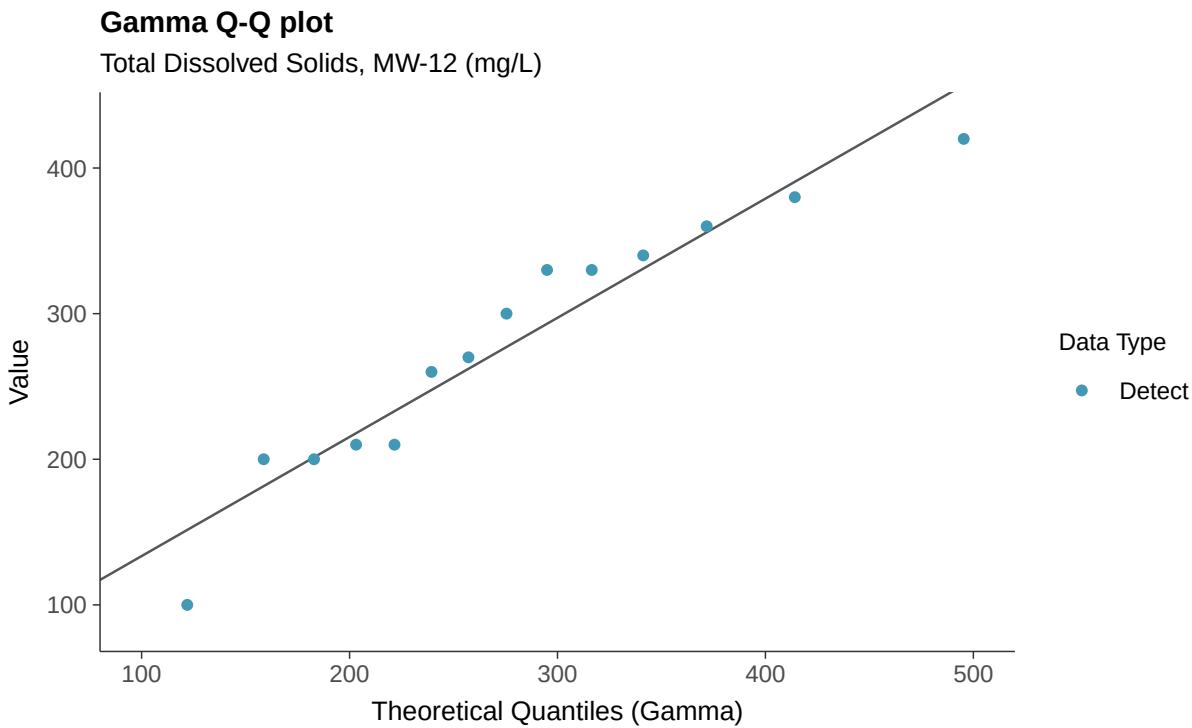
Appendix III: Total Dissolved Solids, MW-12

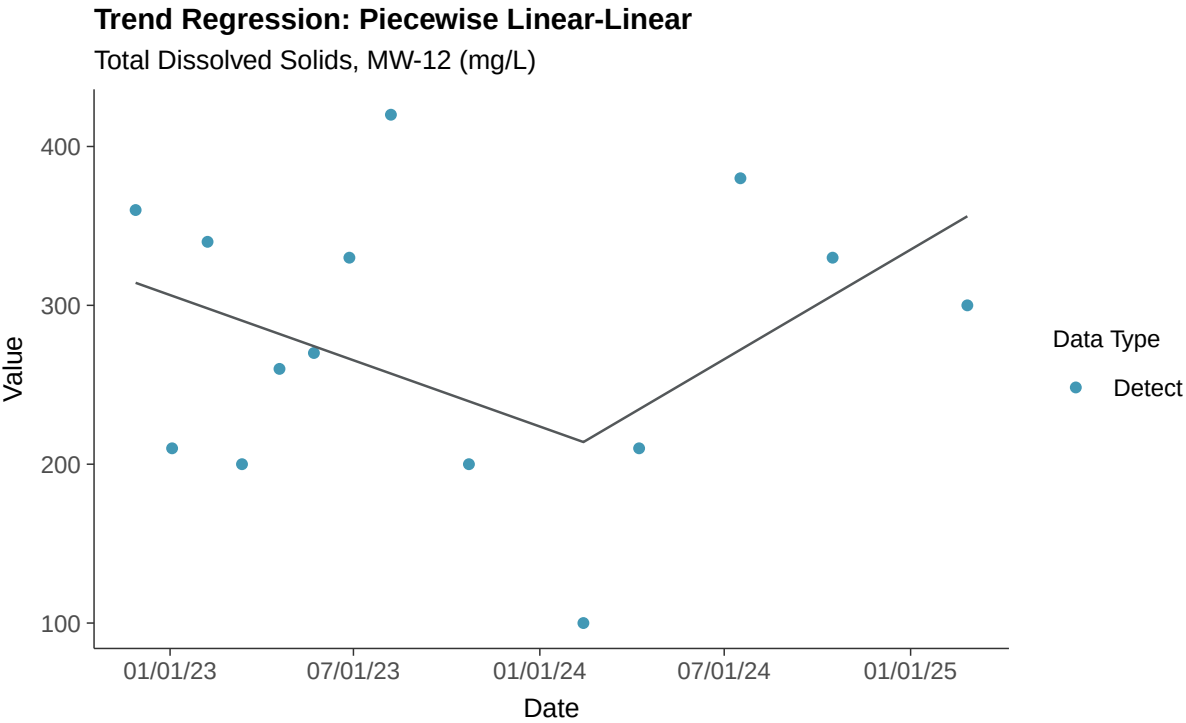
ID: 22_2_3_126







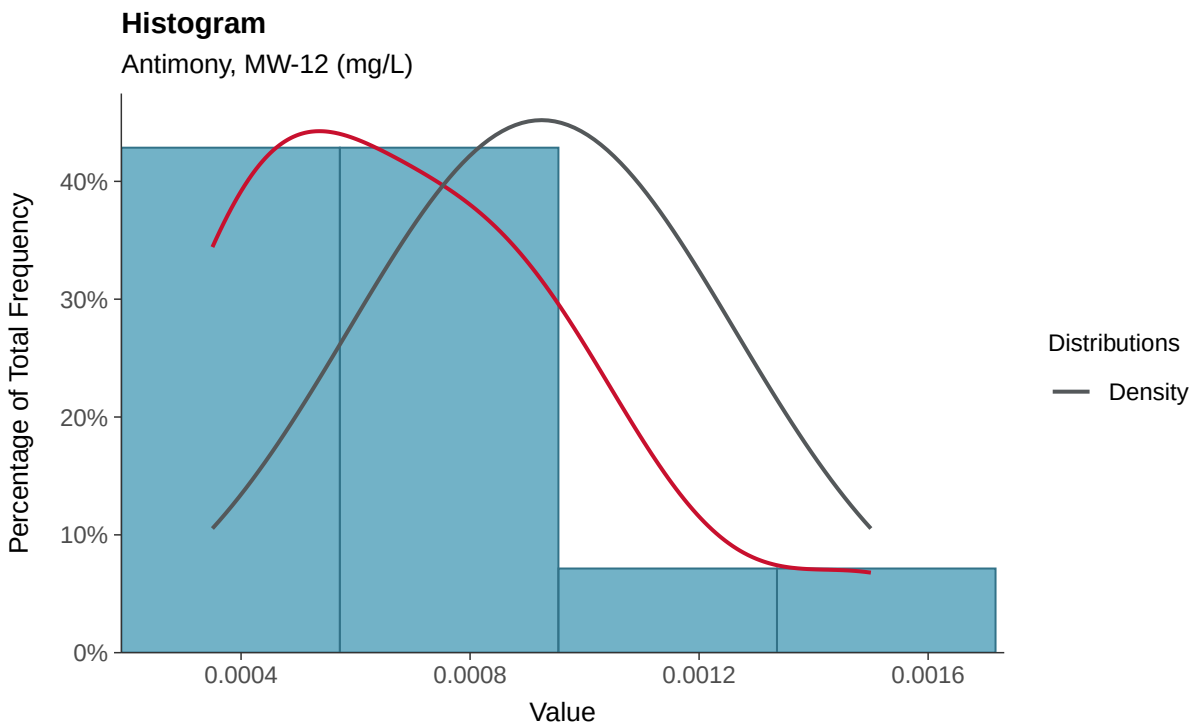
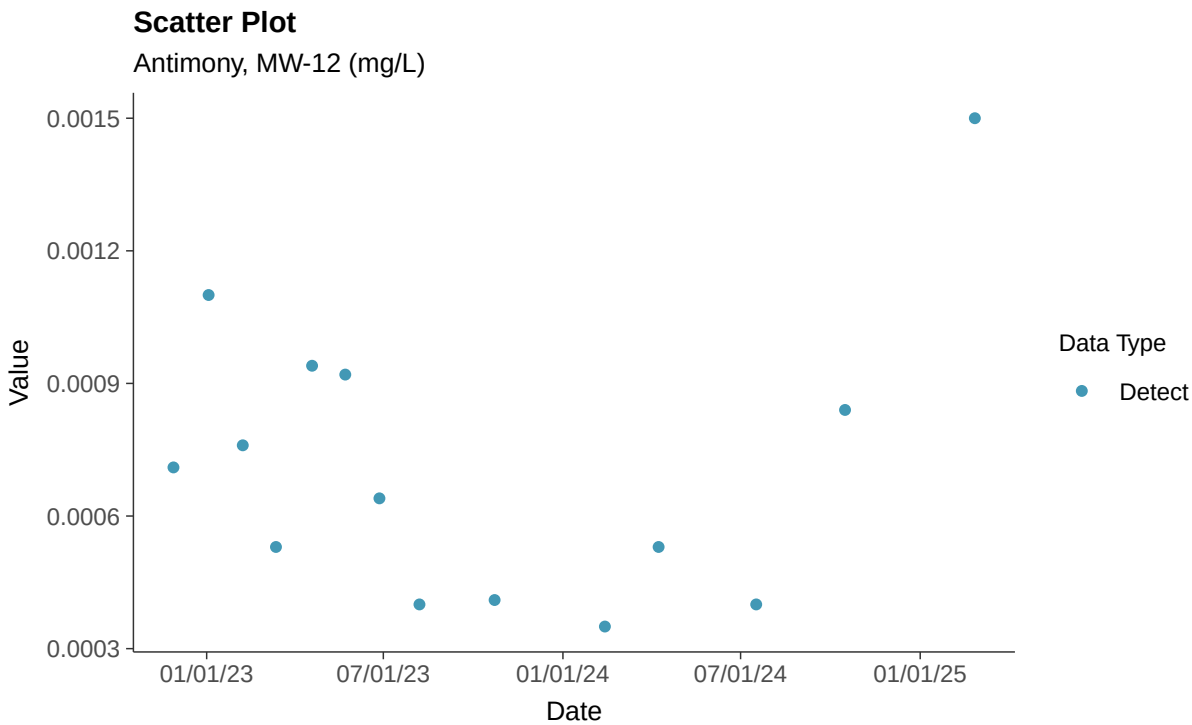


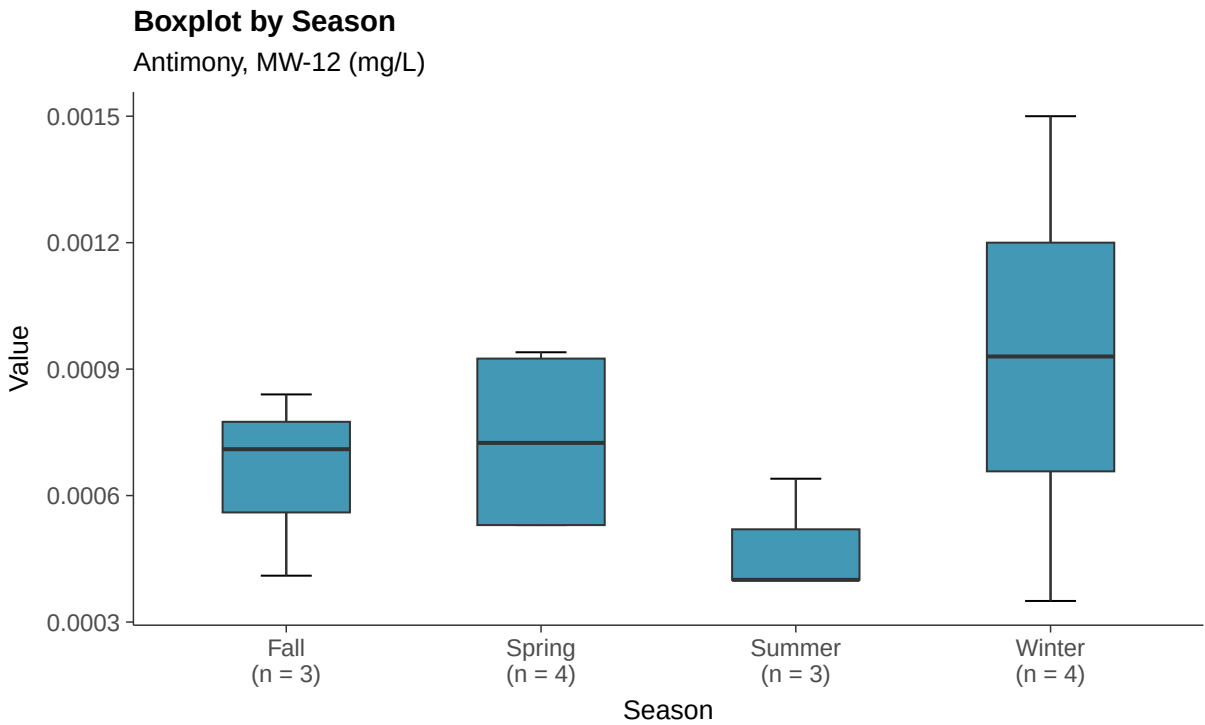
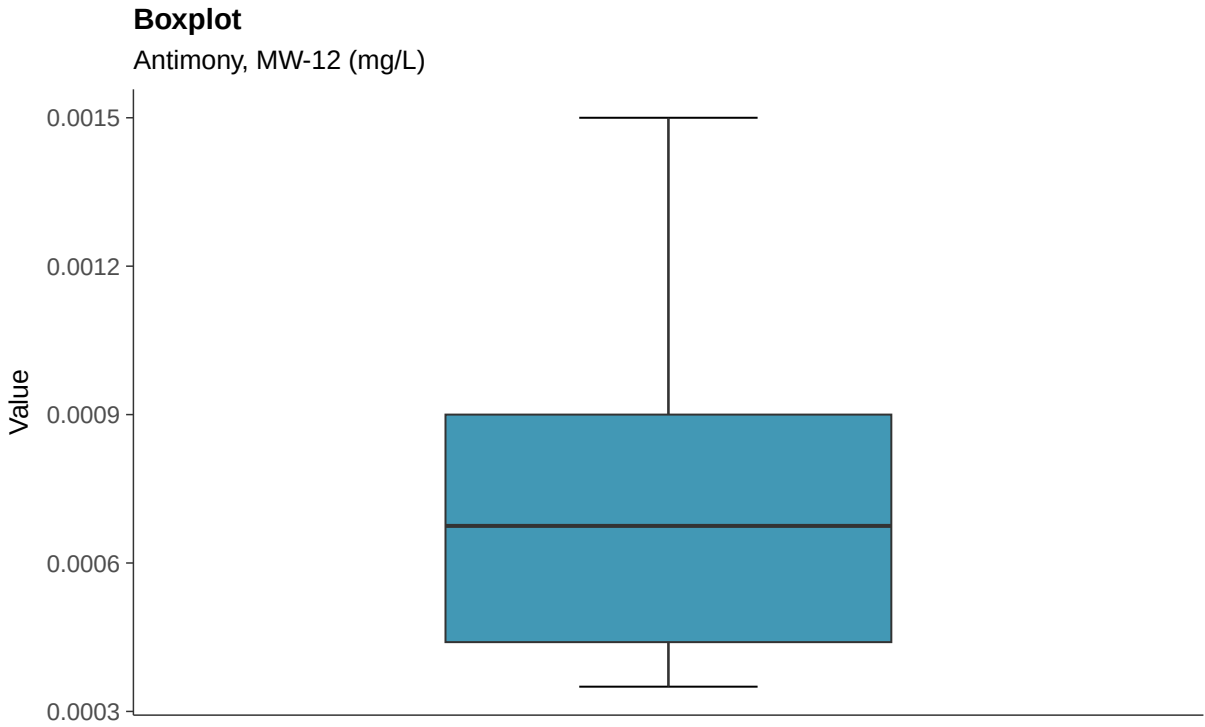


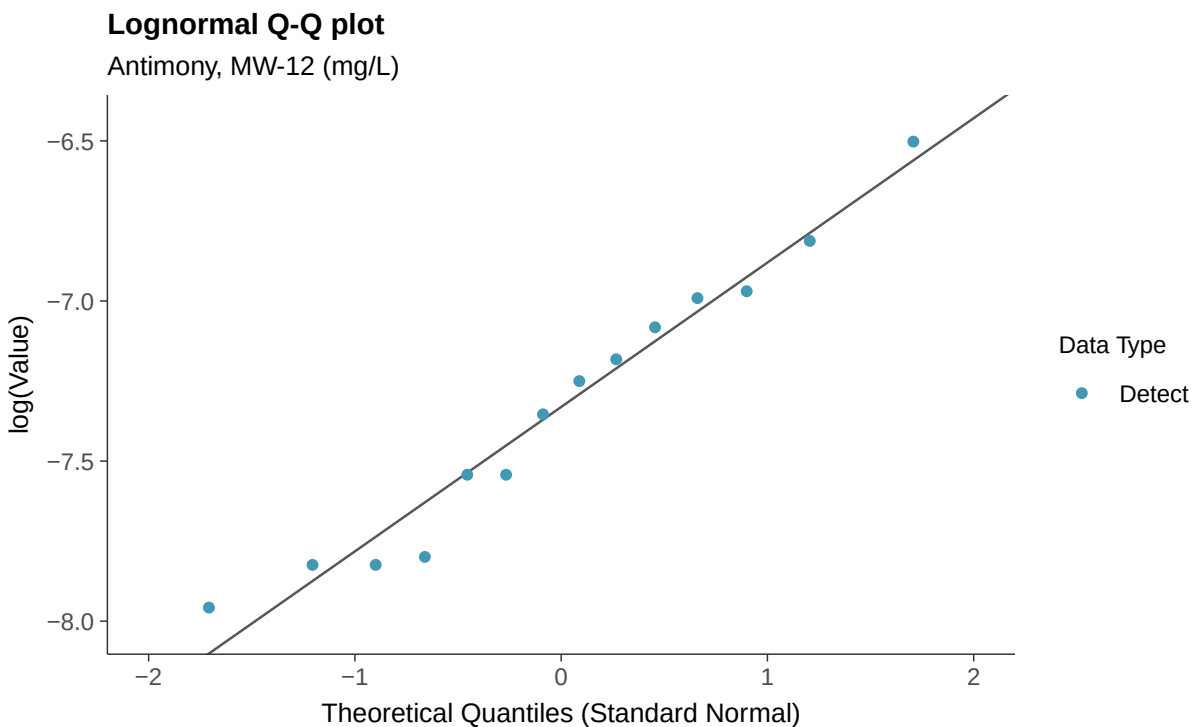
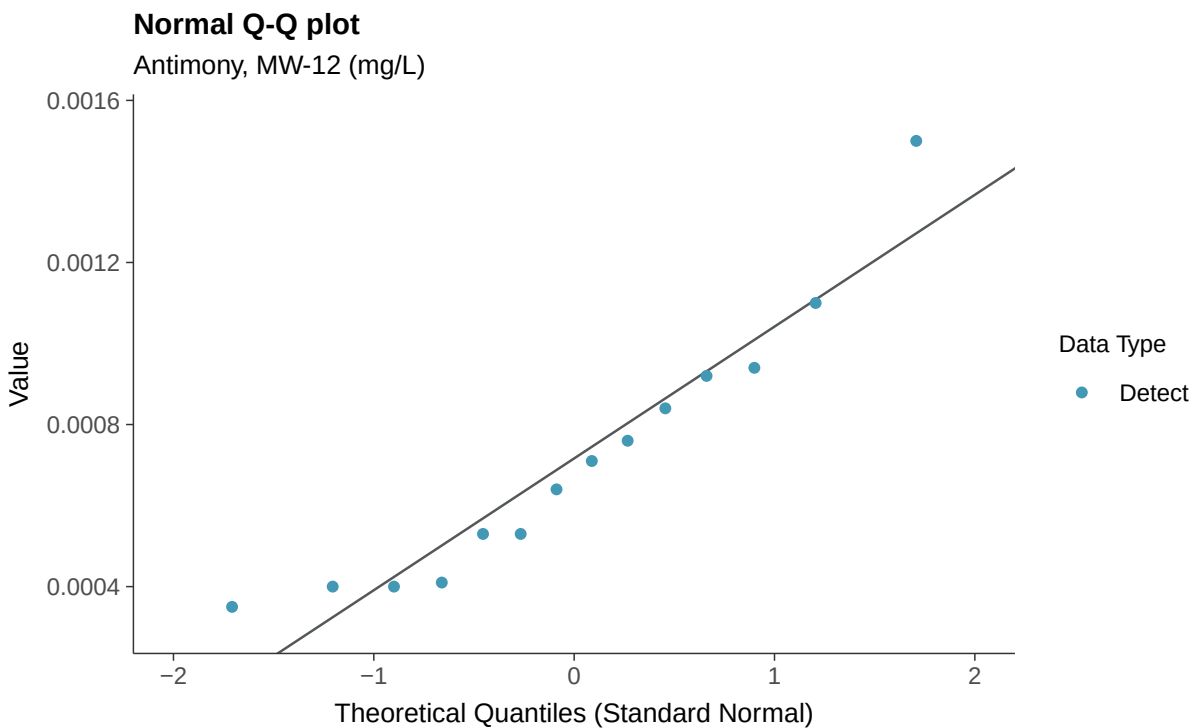


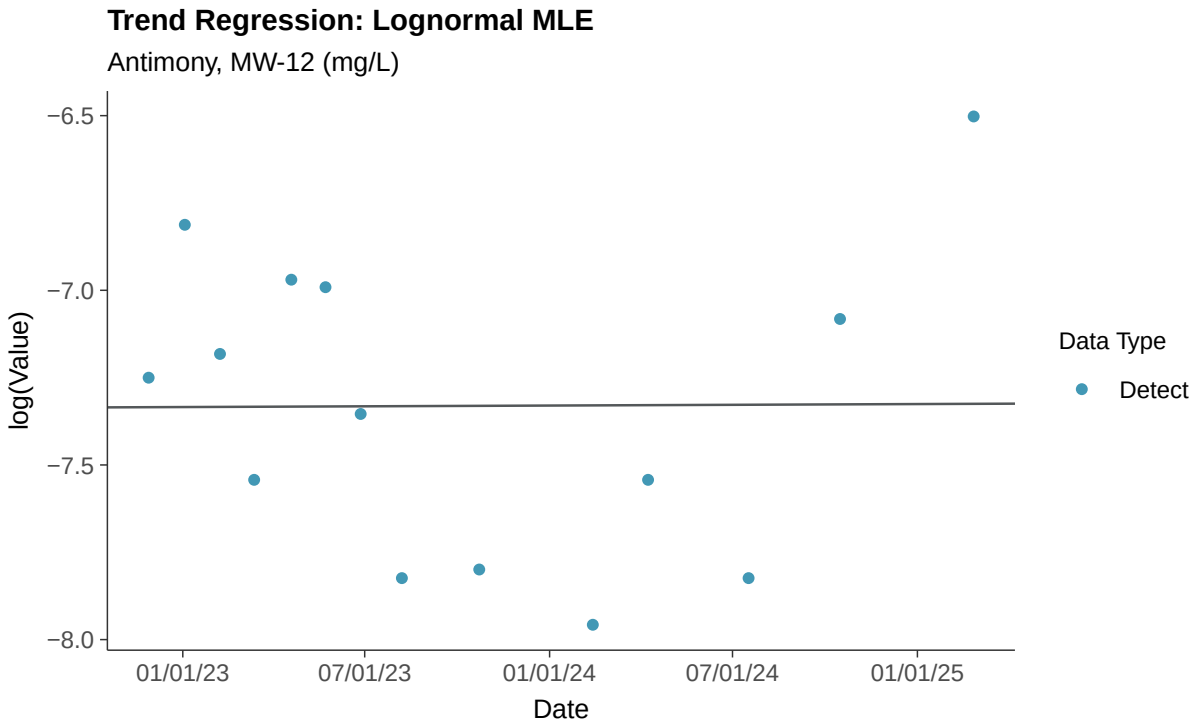
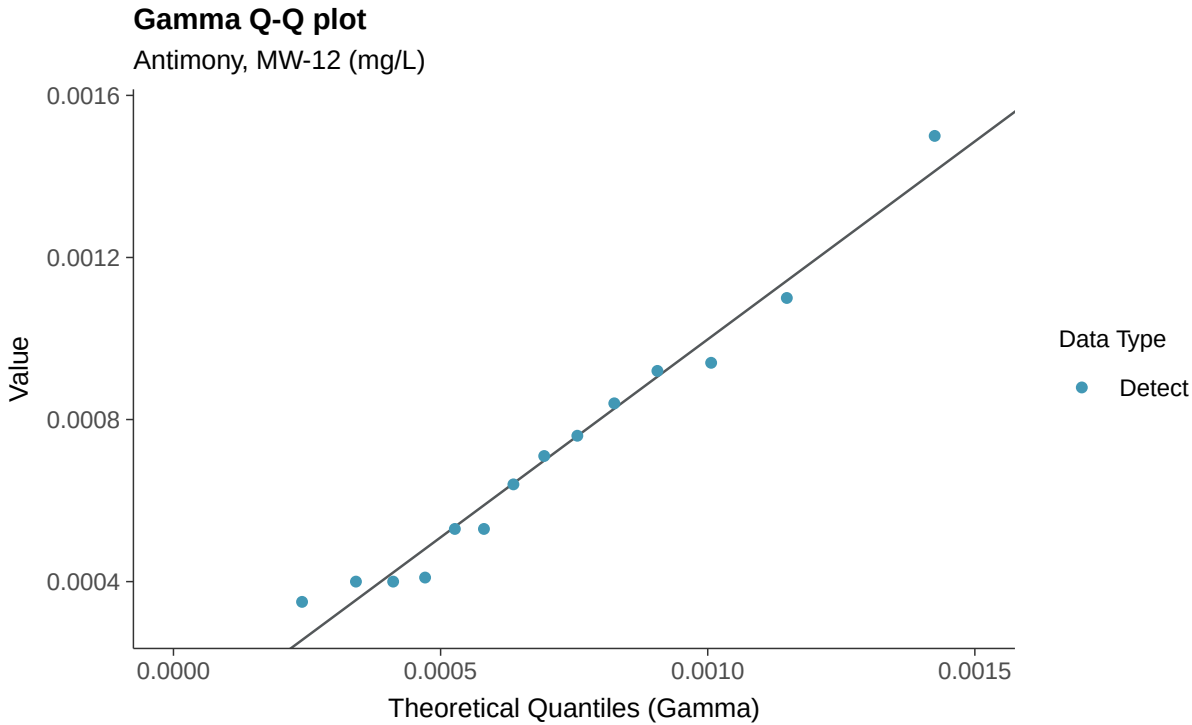
Appendix IV: Antimony, MW-12

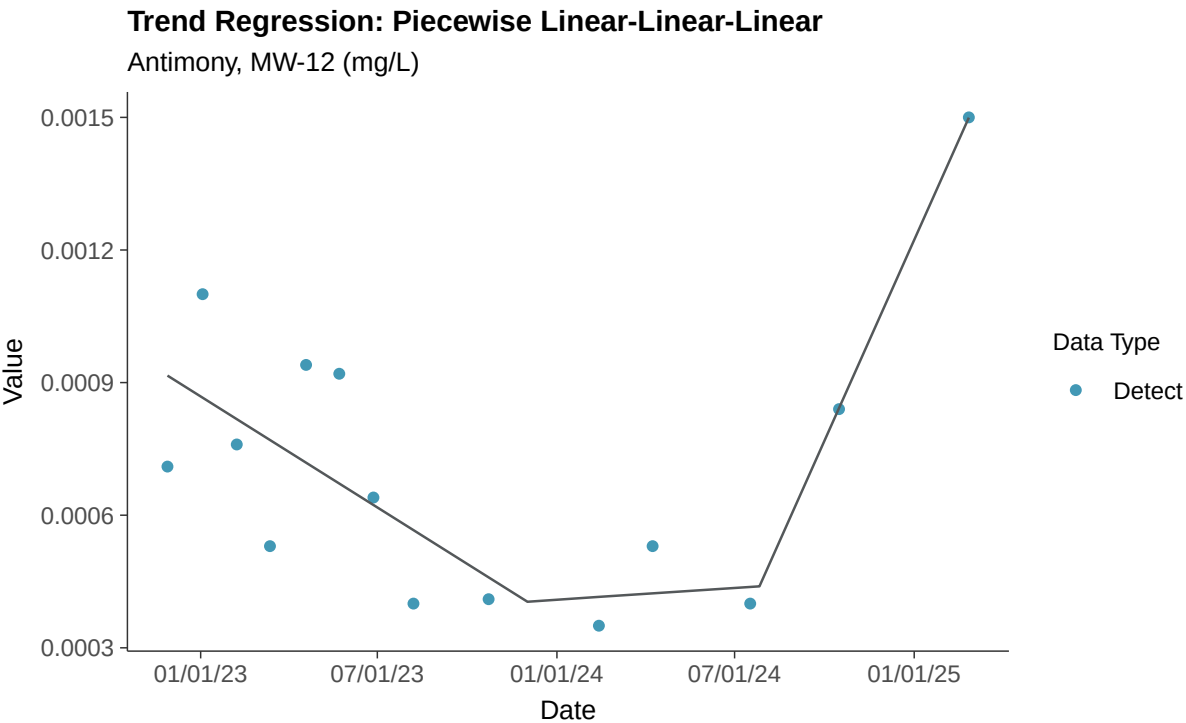
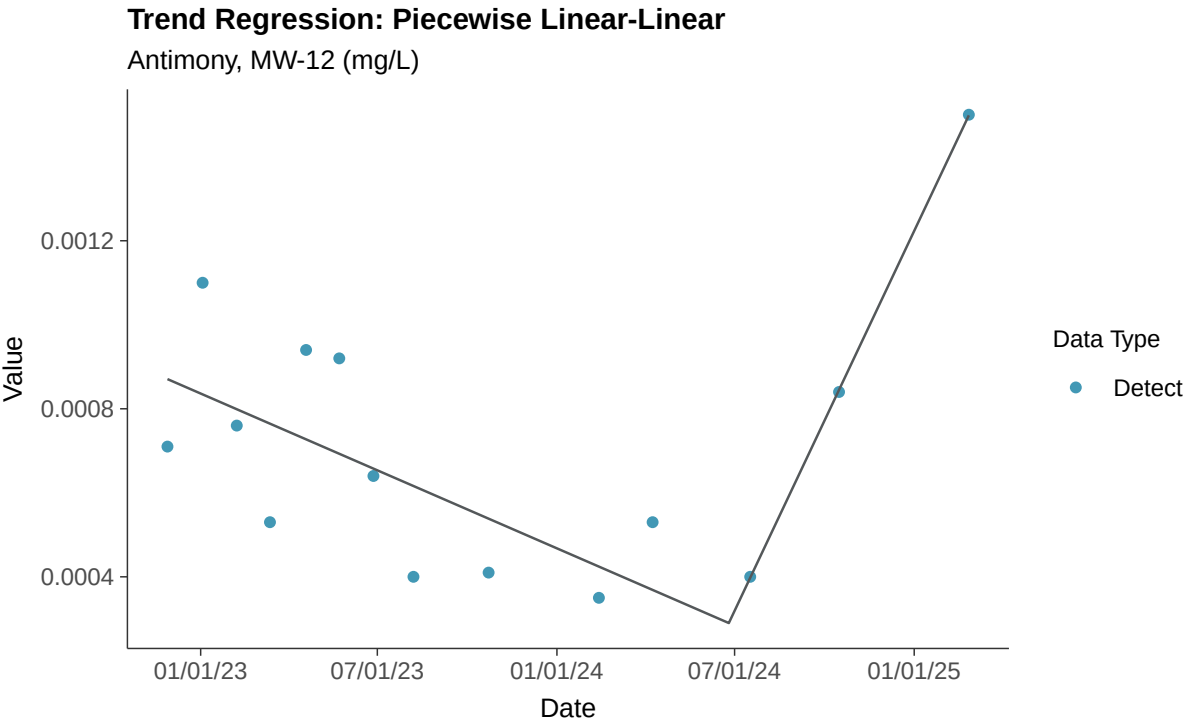
ID: 22_2_4_101







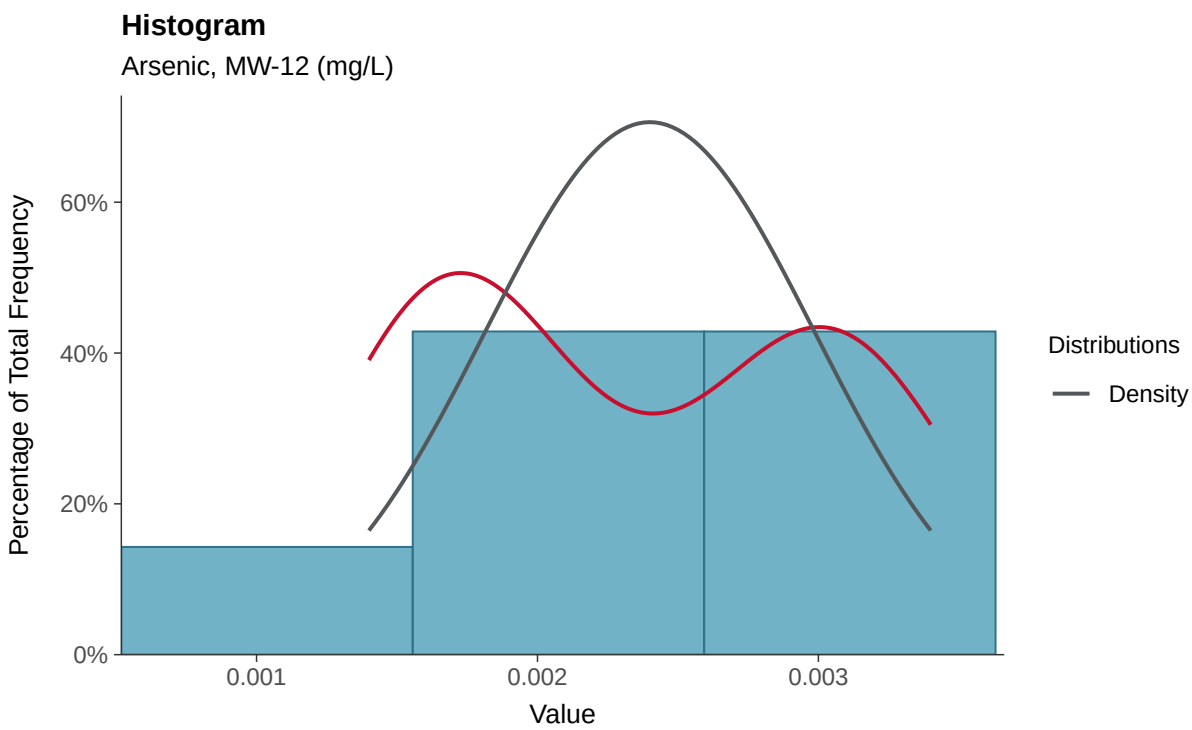
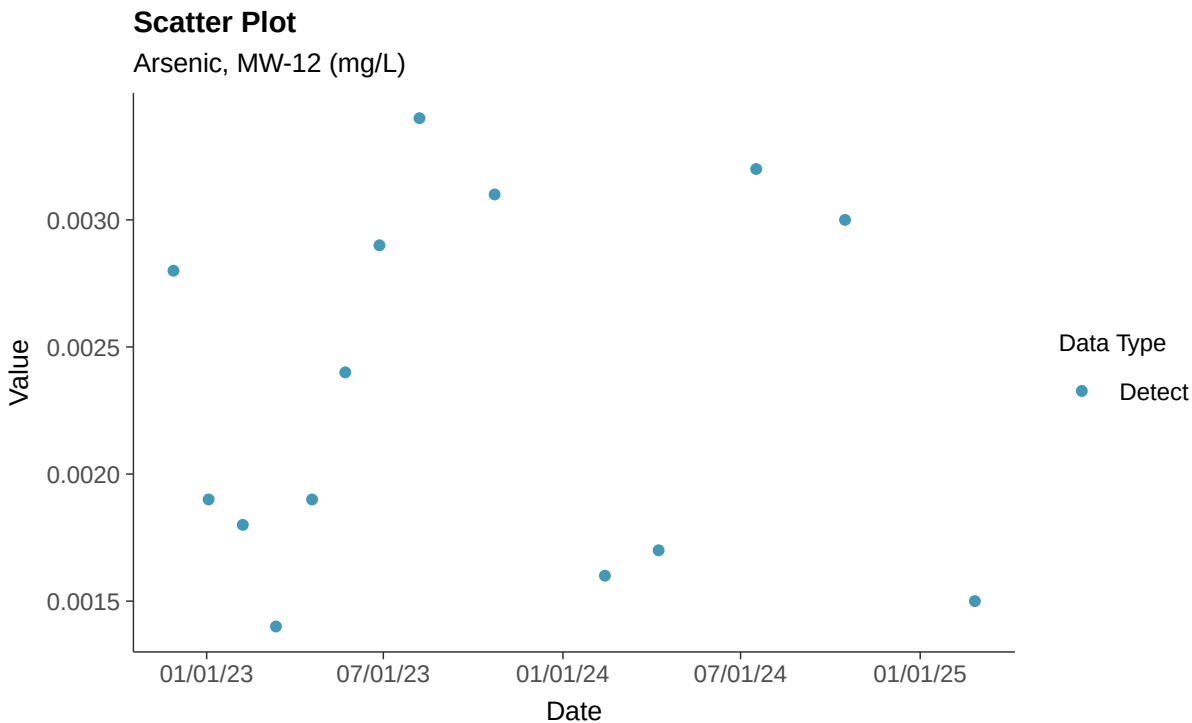


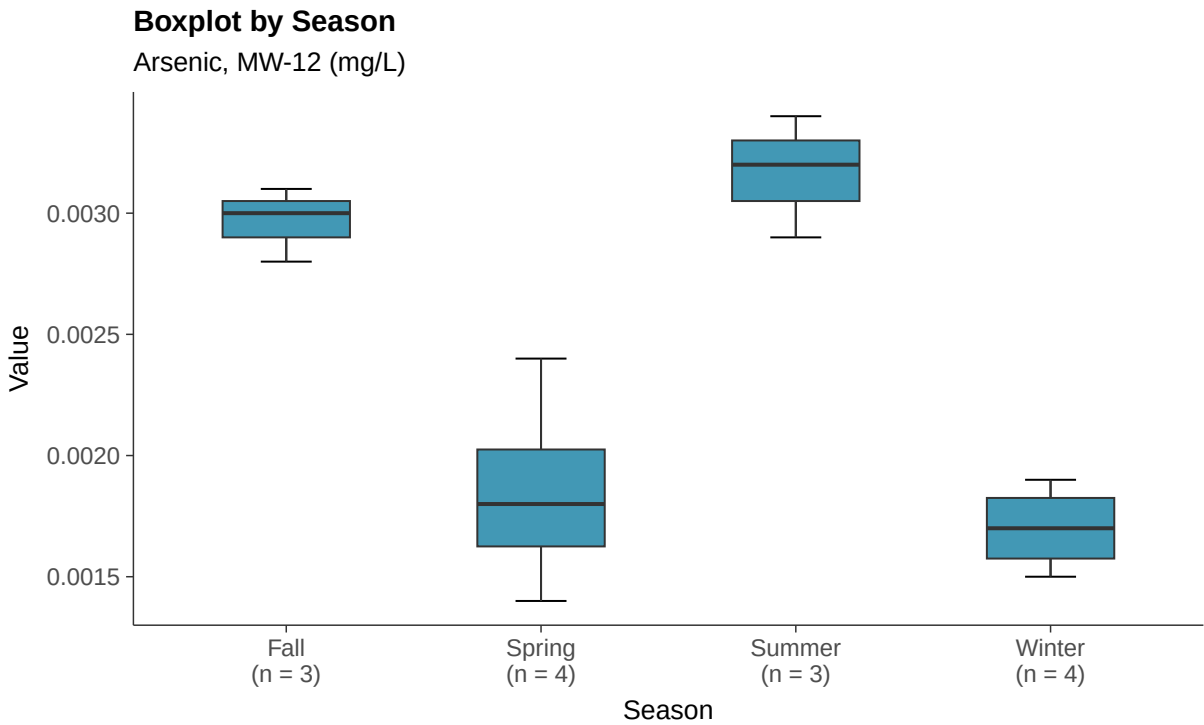
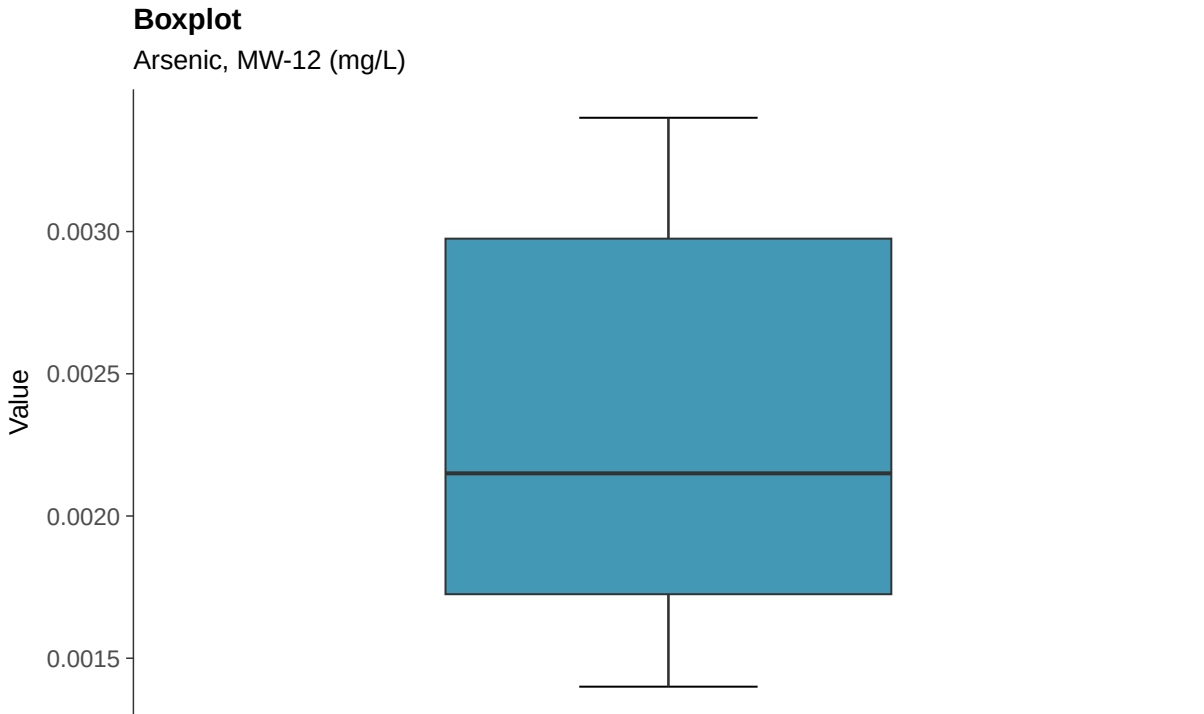


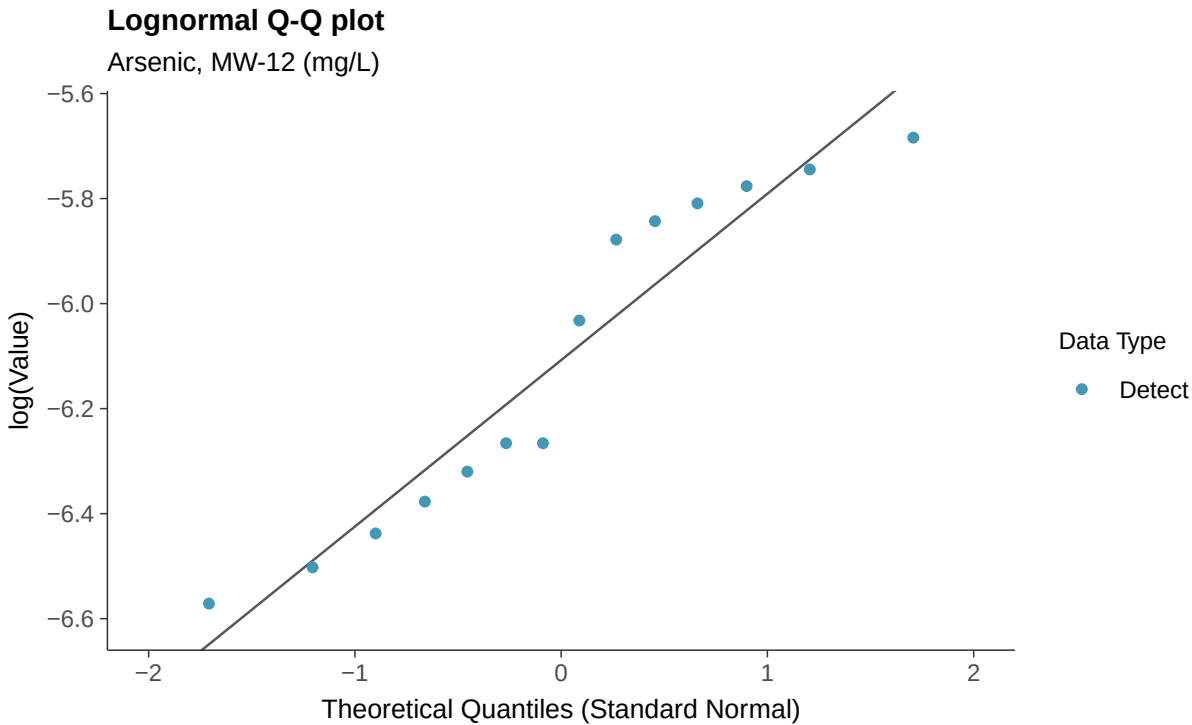
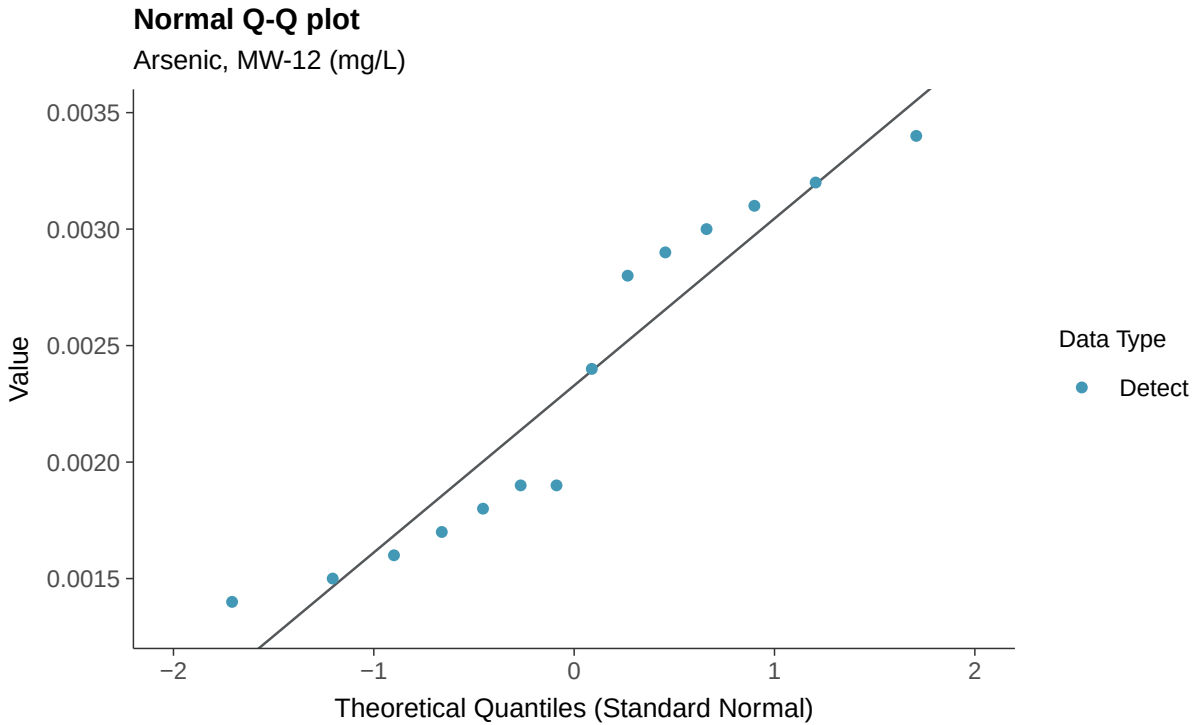


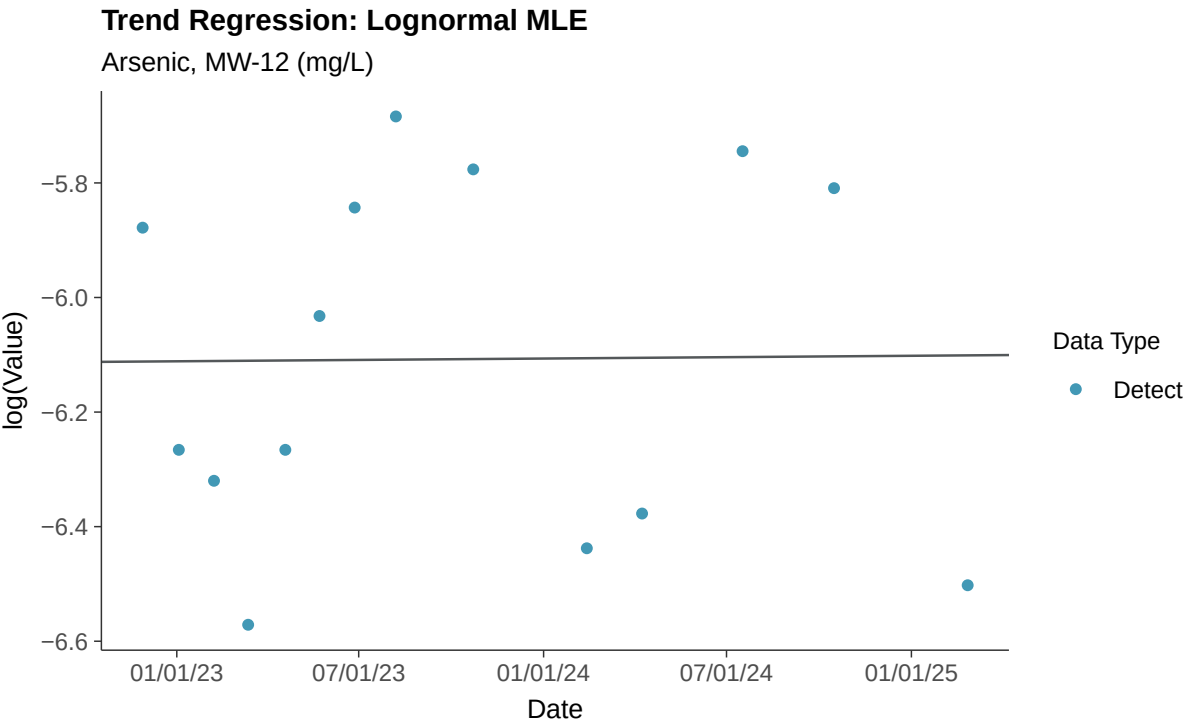
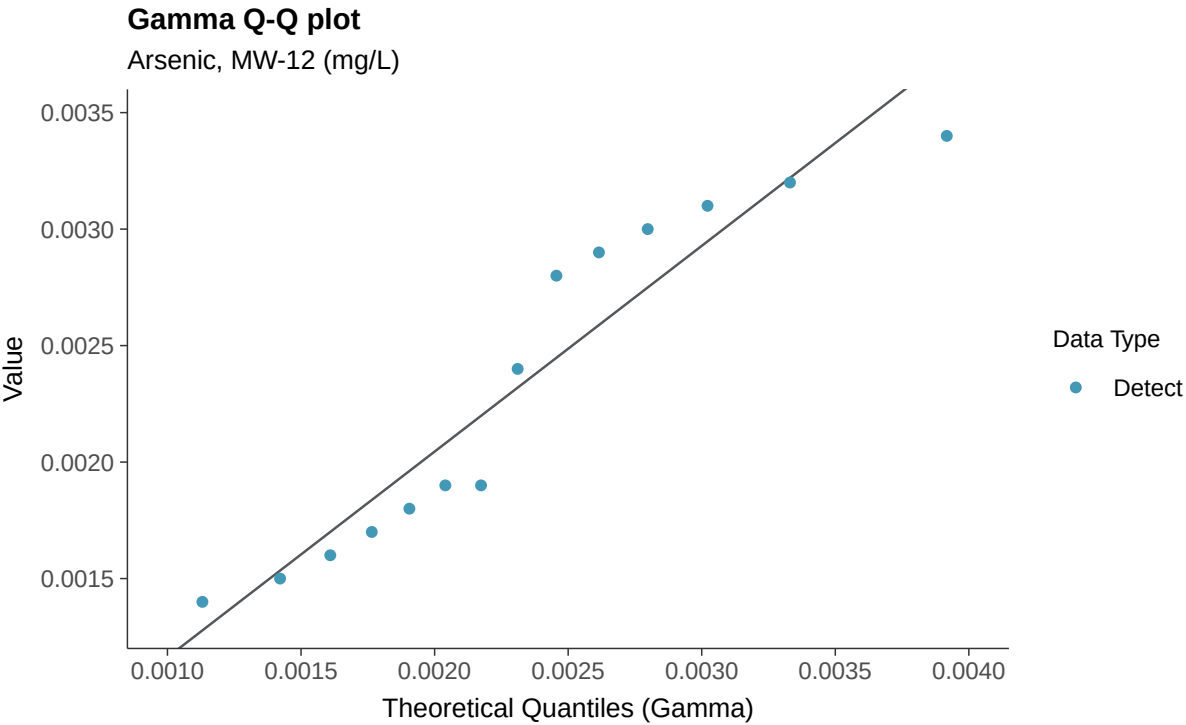
Appendix IV: Arsenic, MW-12

ID: 22_2_4_102





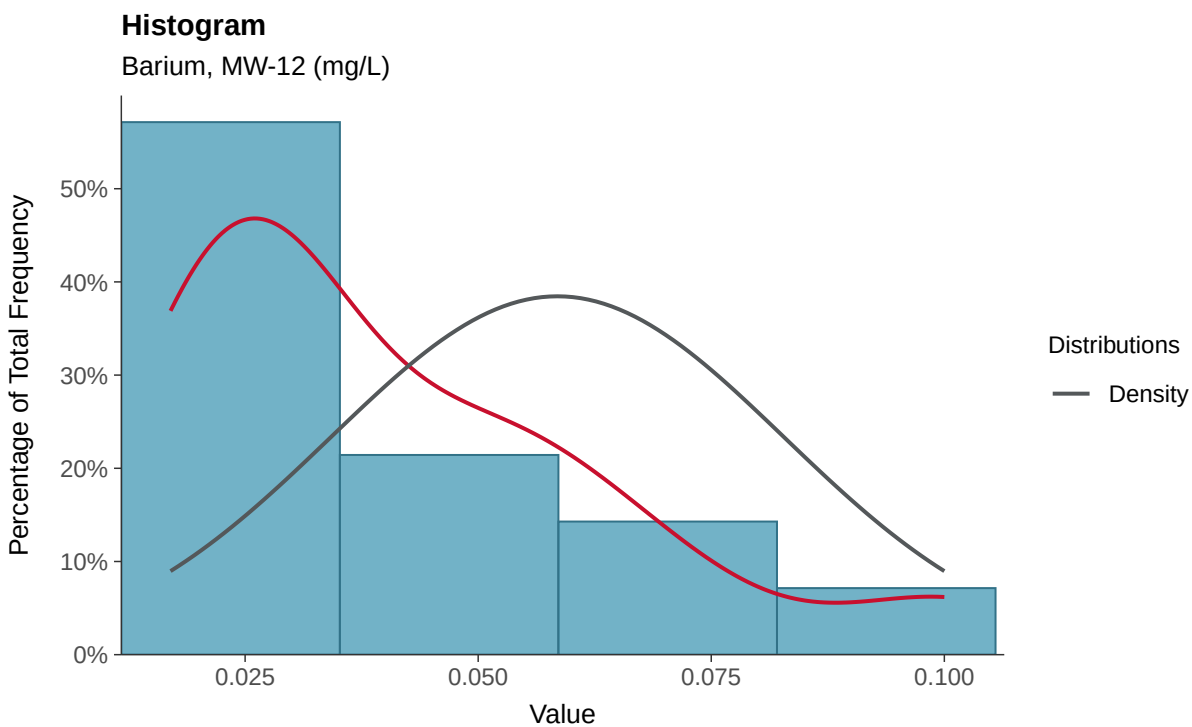
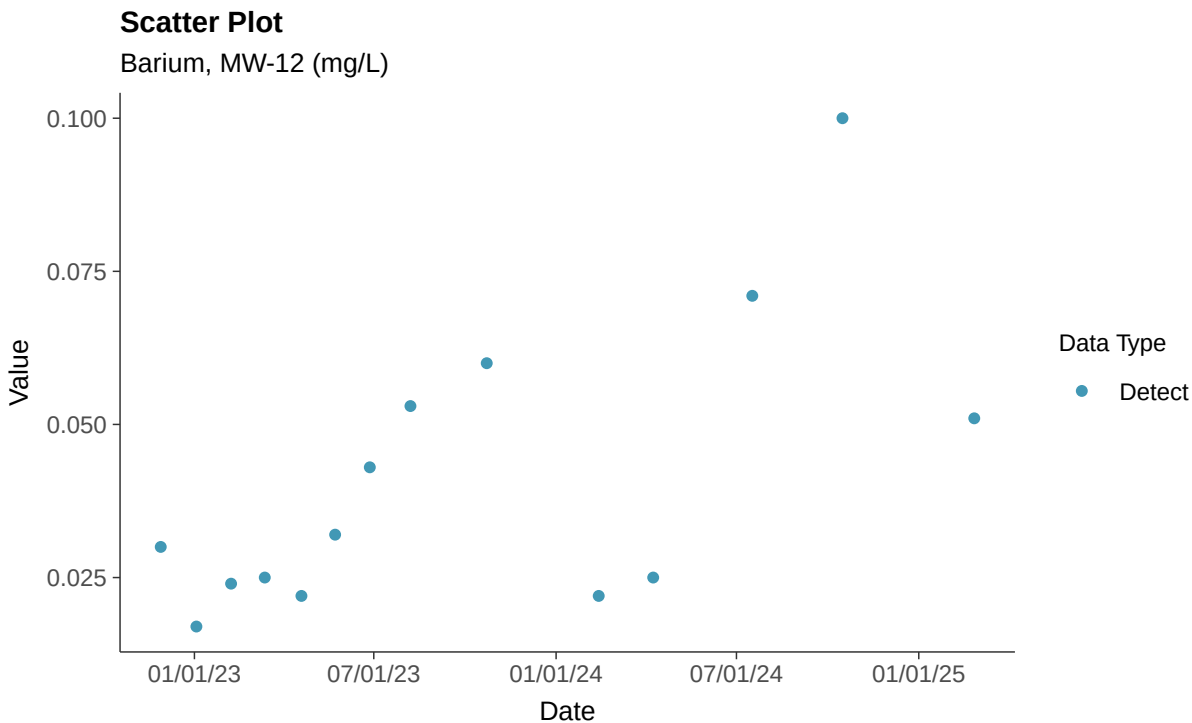


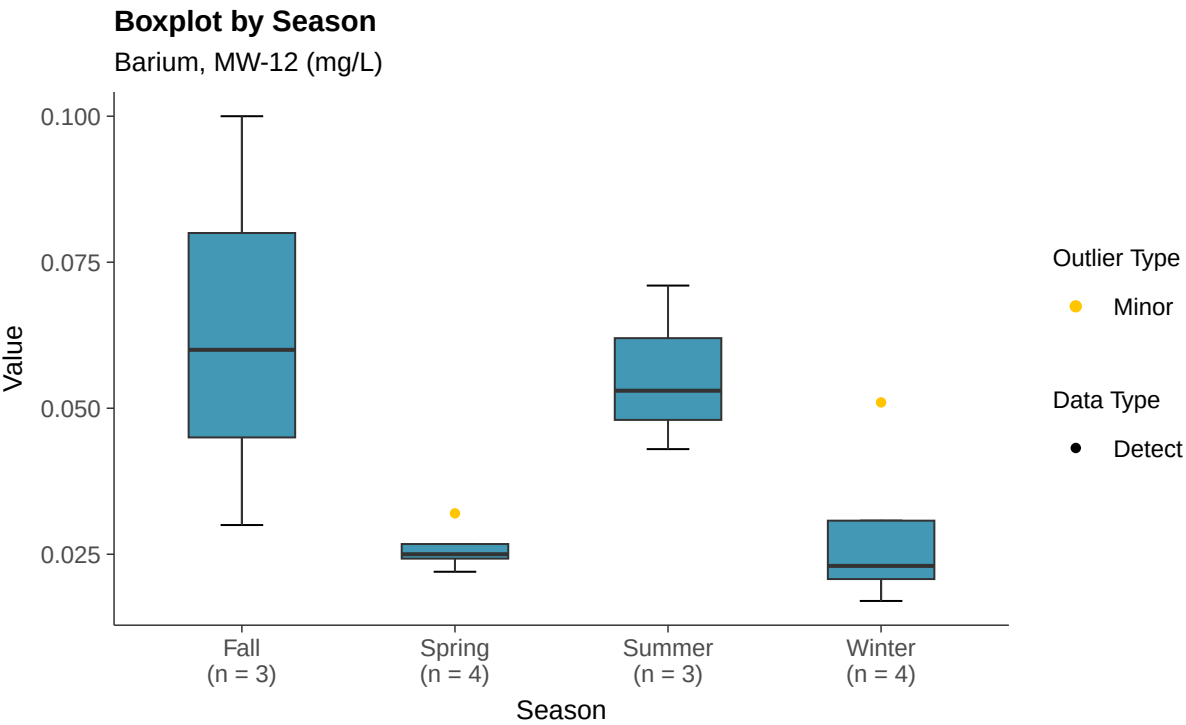
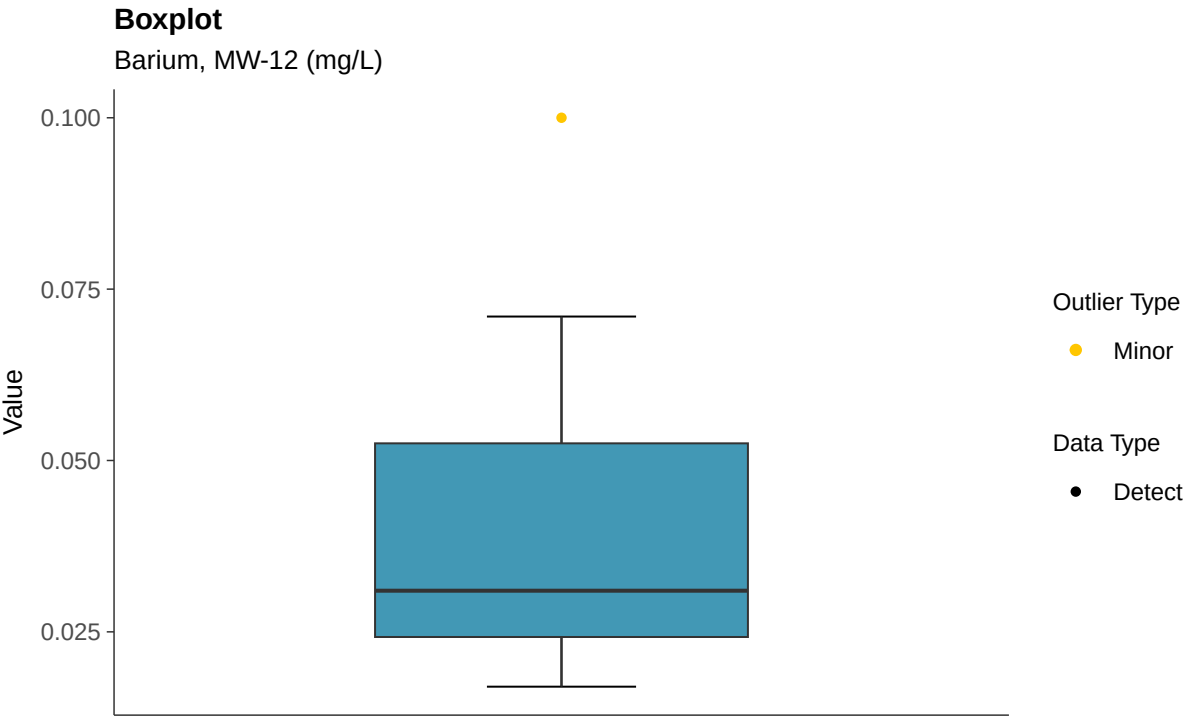


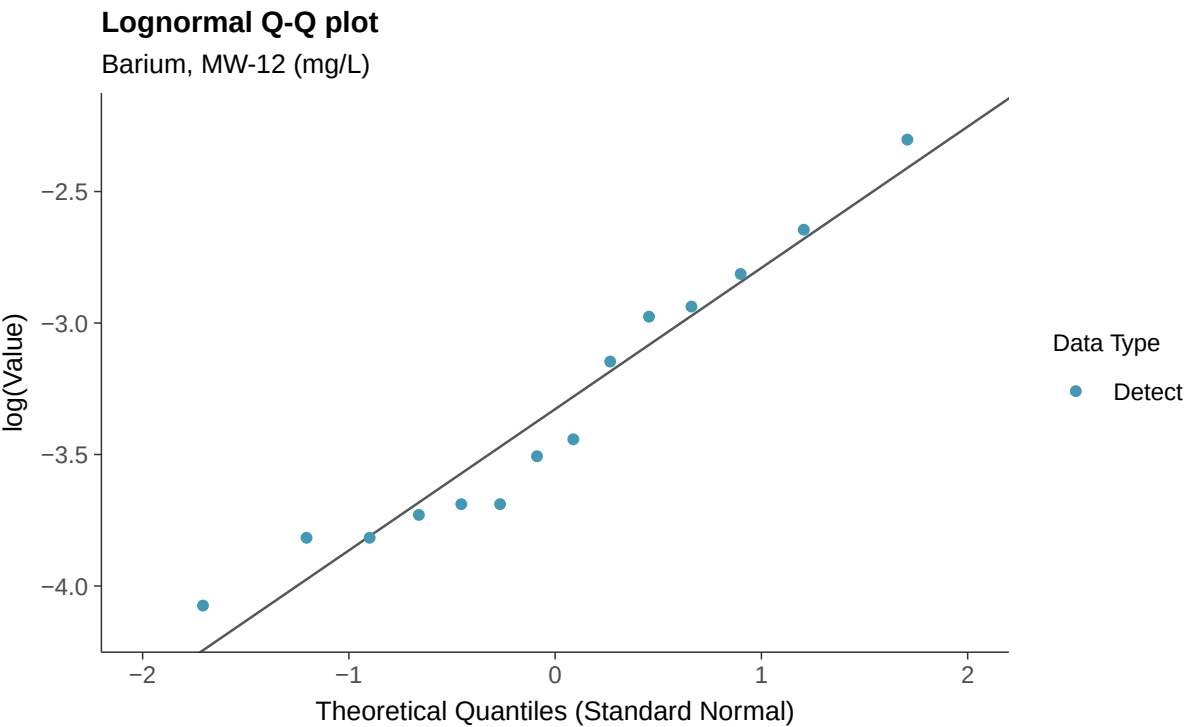
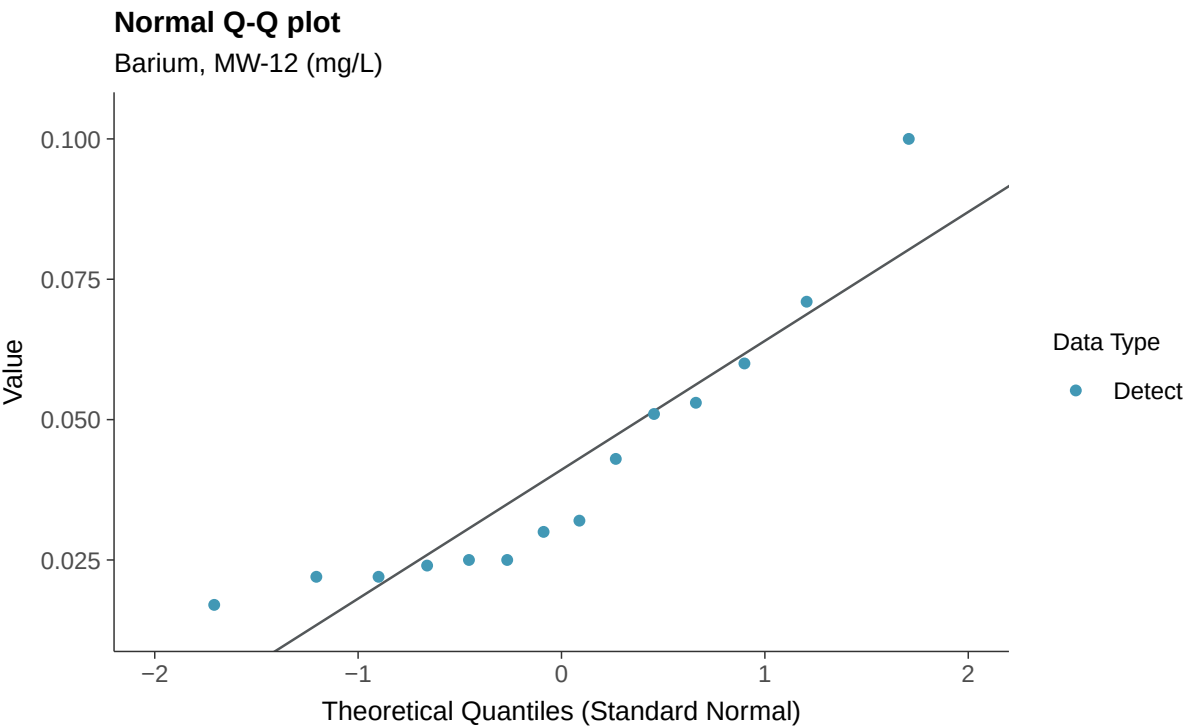


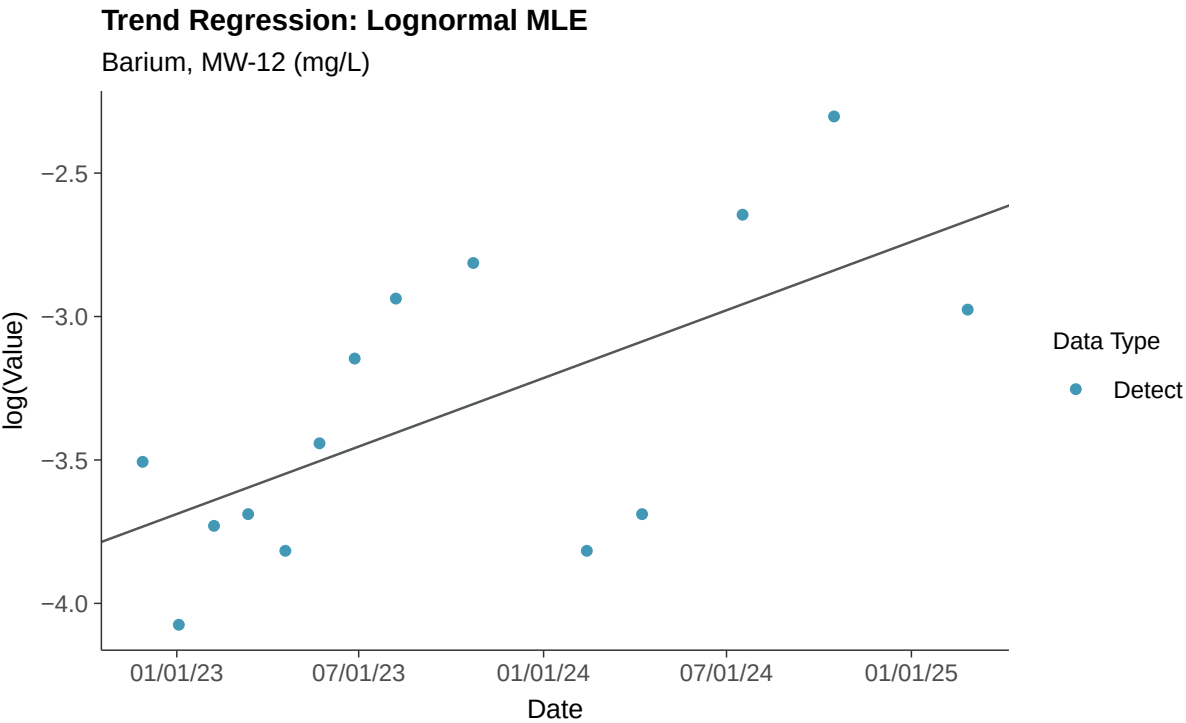
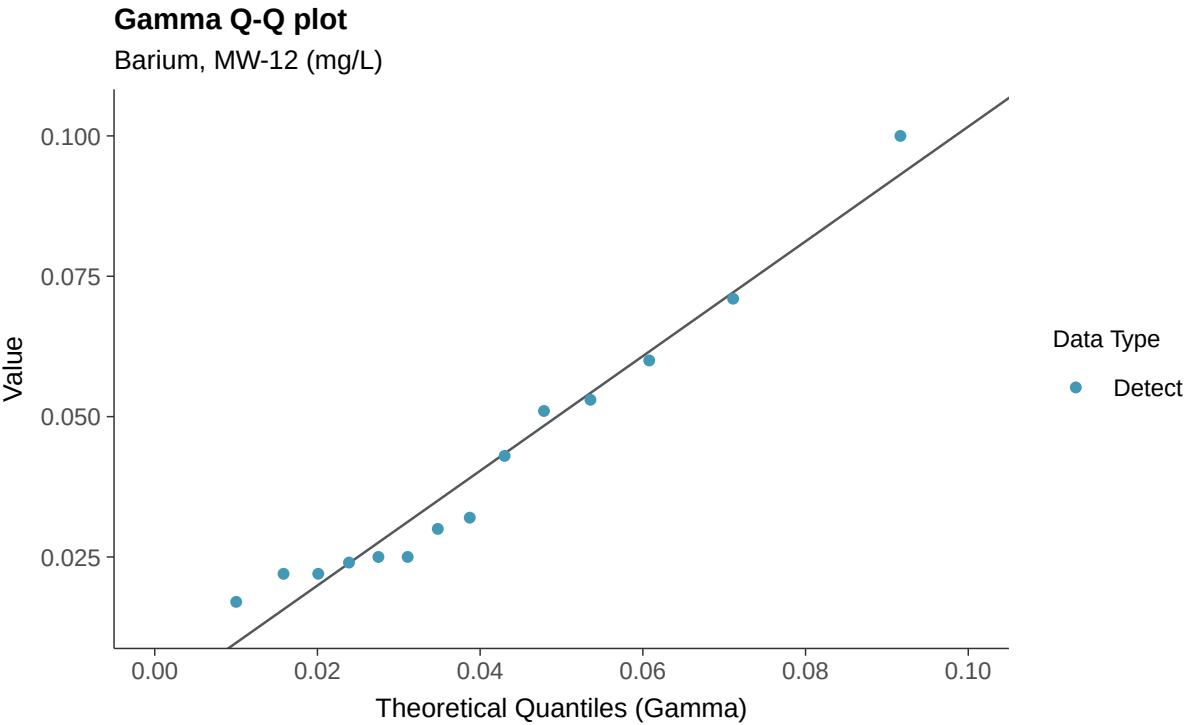
Appendix IV: Barium, MW-12

ID: 22_2_4_103





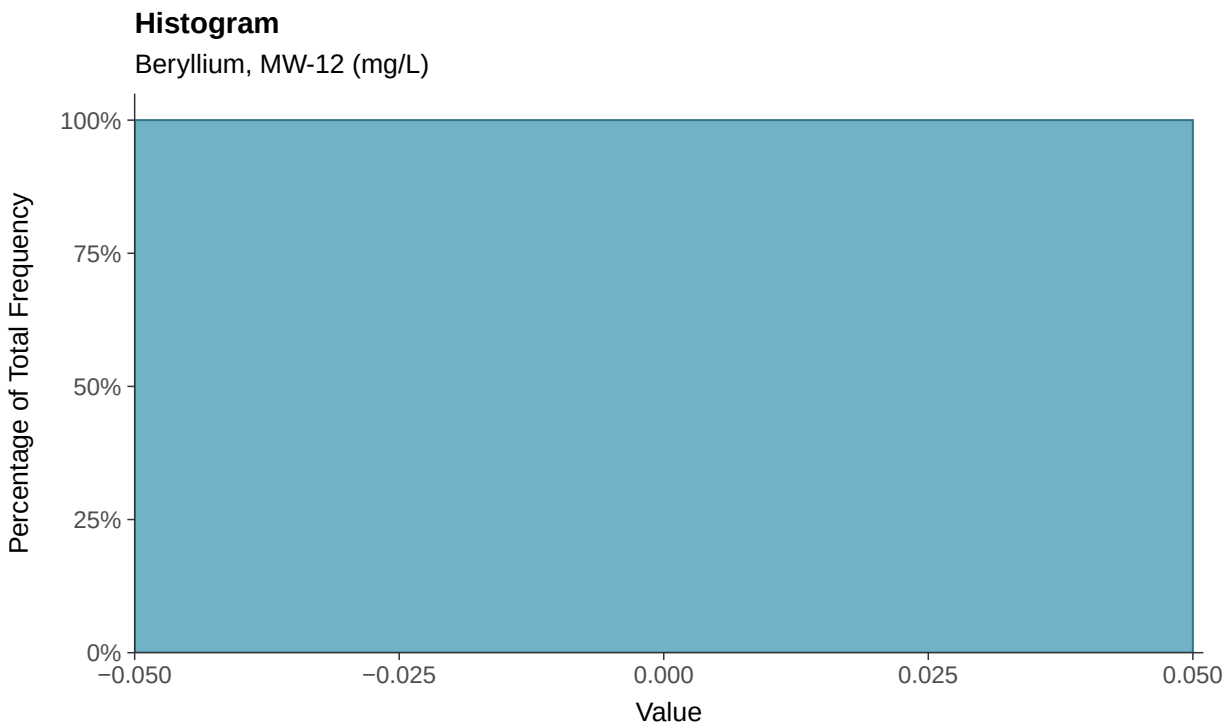
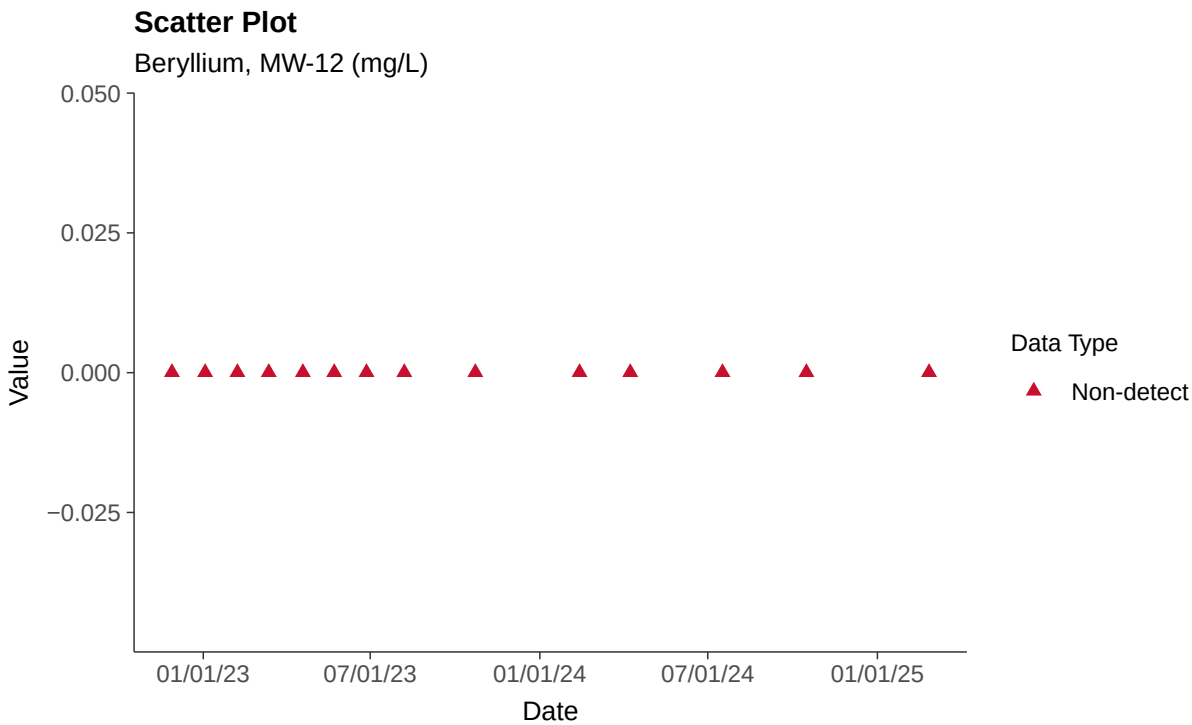


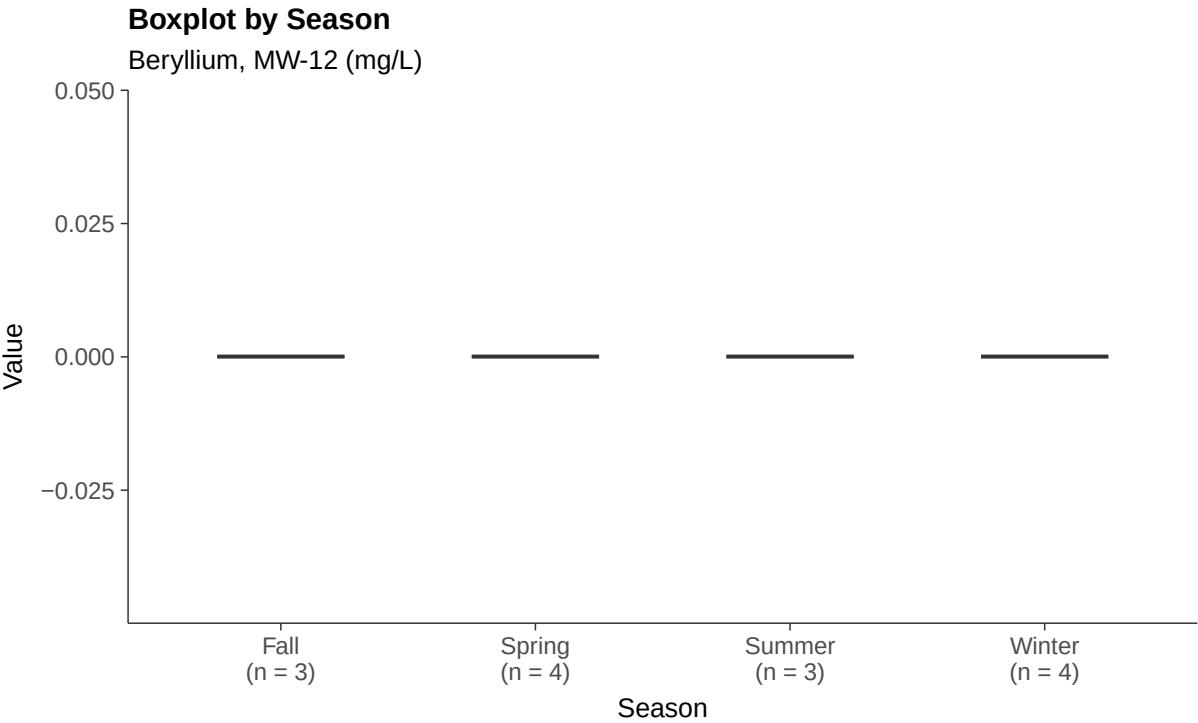
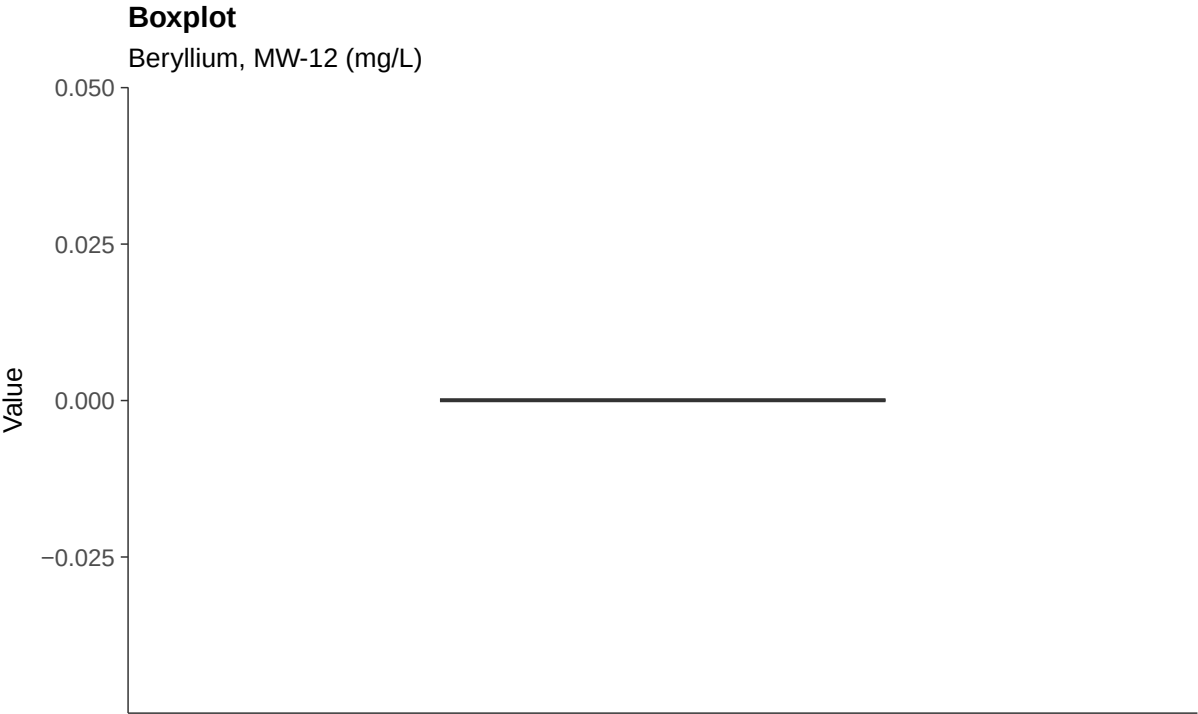




Appendix IV: Beryllium, MW-12

ID: 22_2_4_104

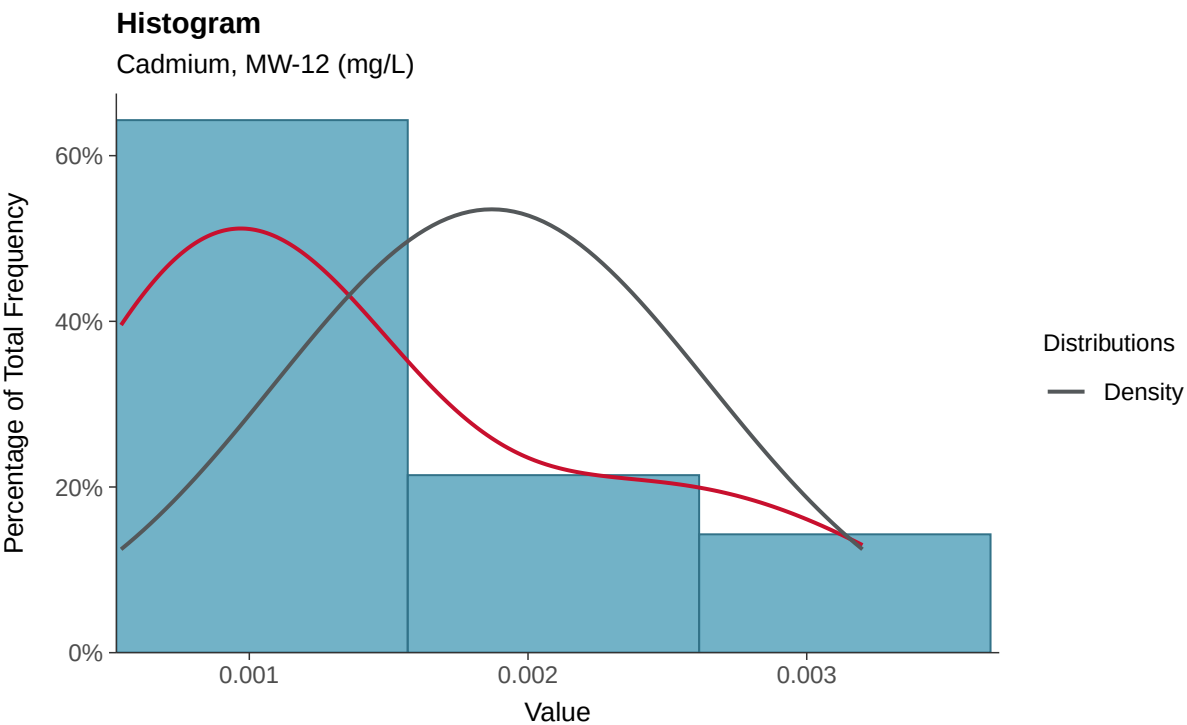
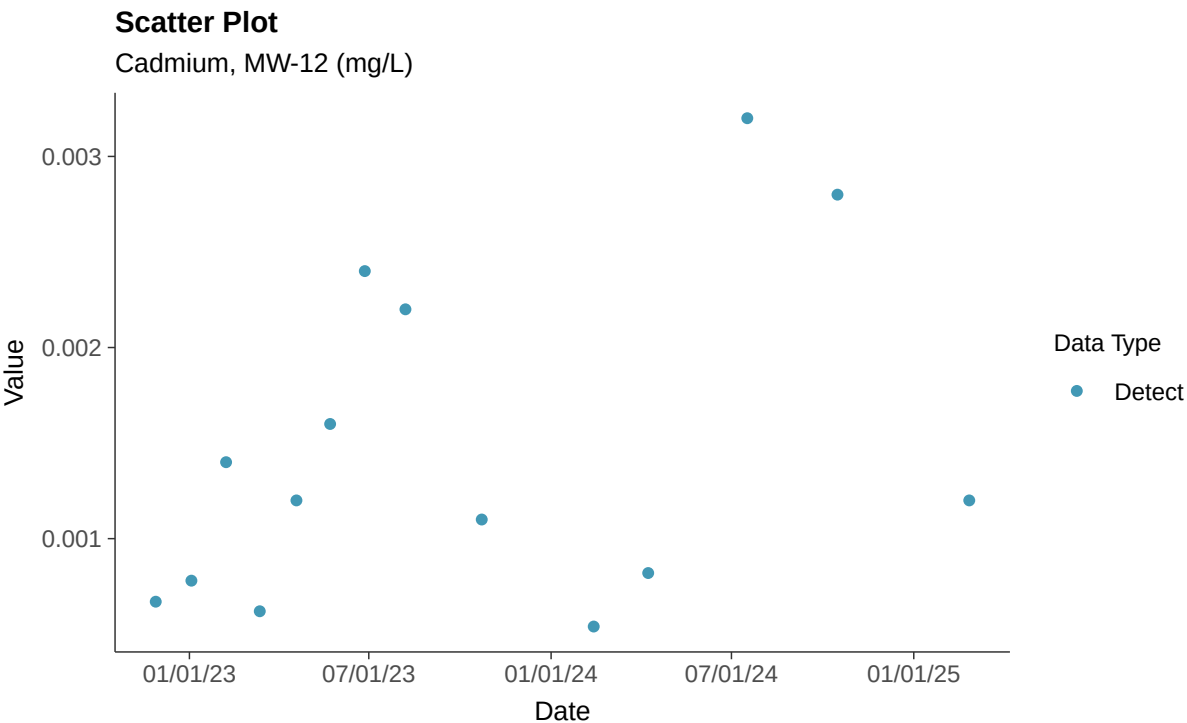


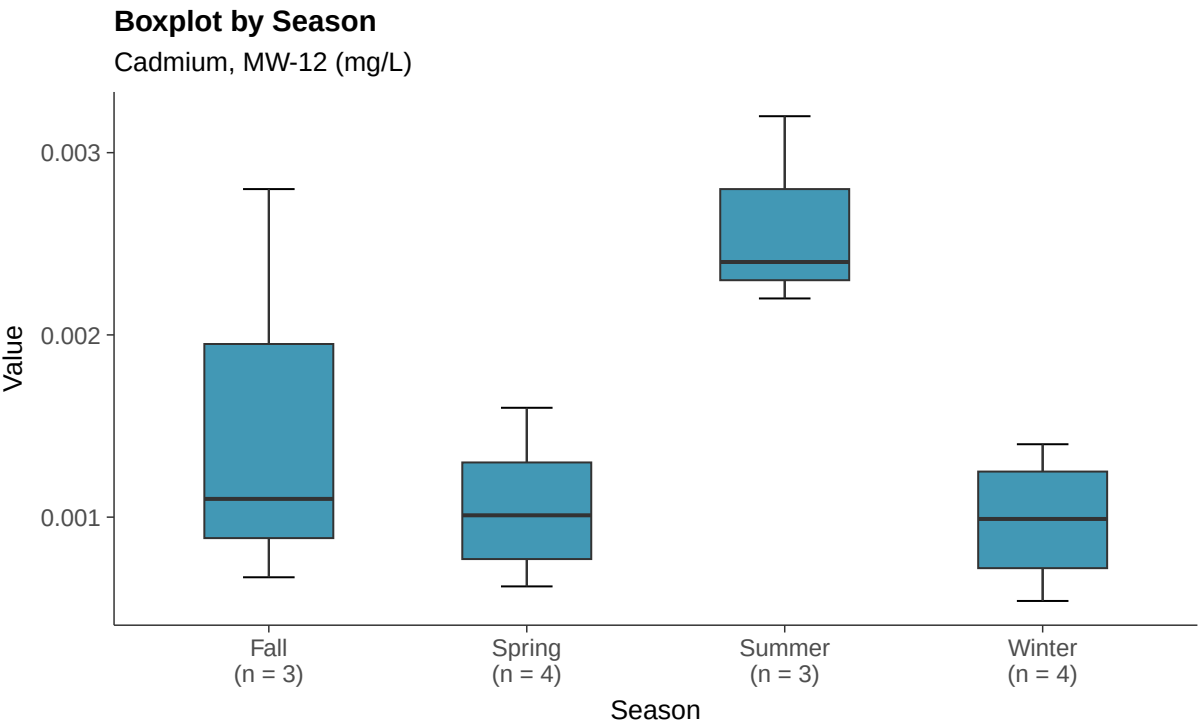
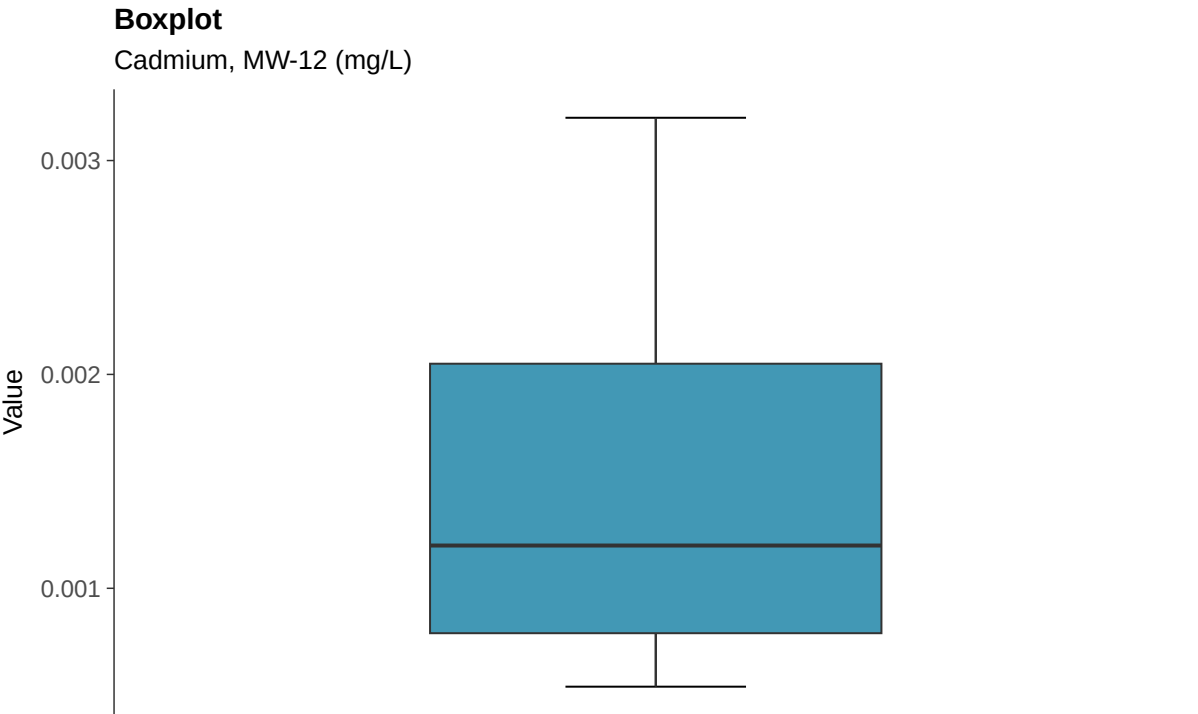


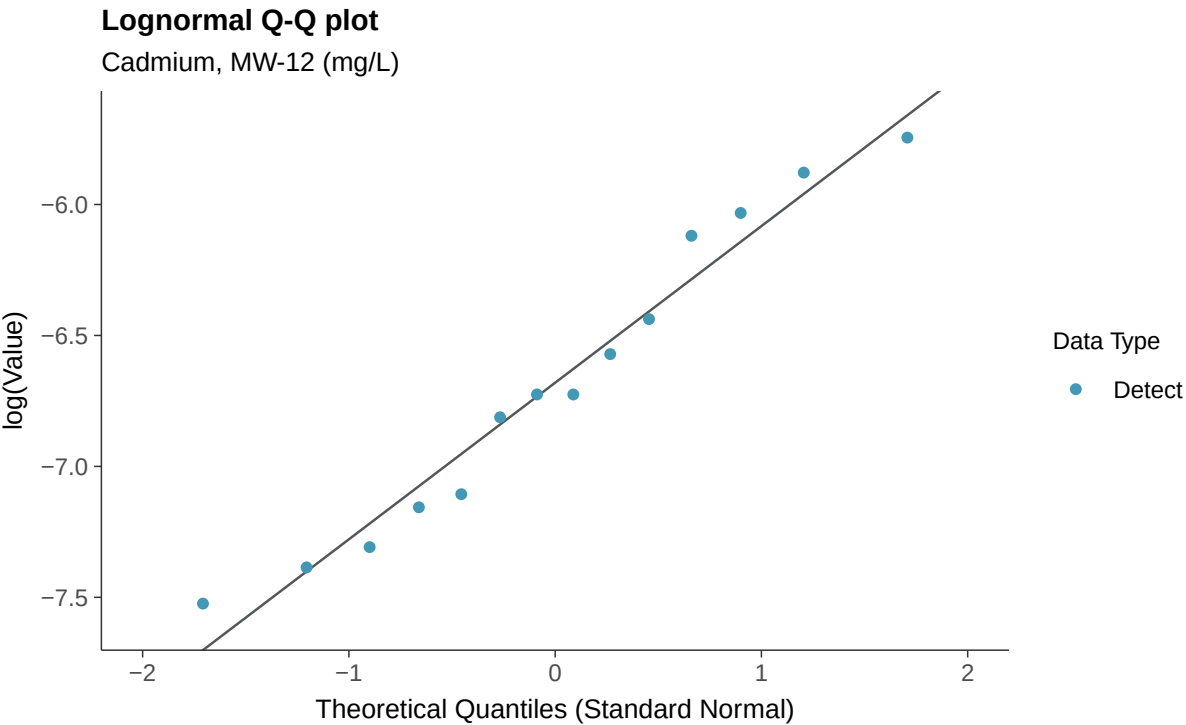
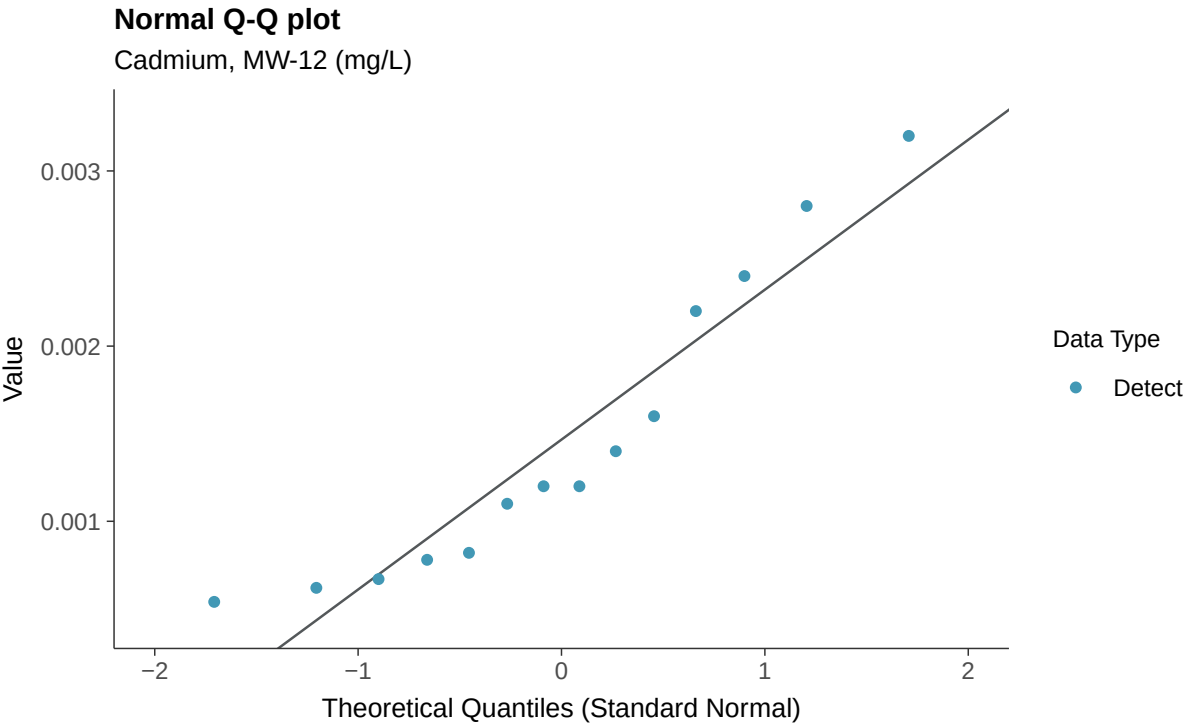


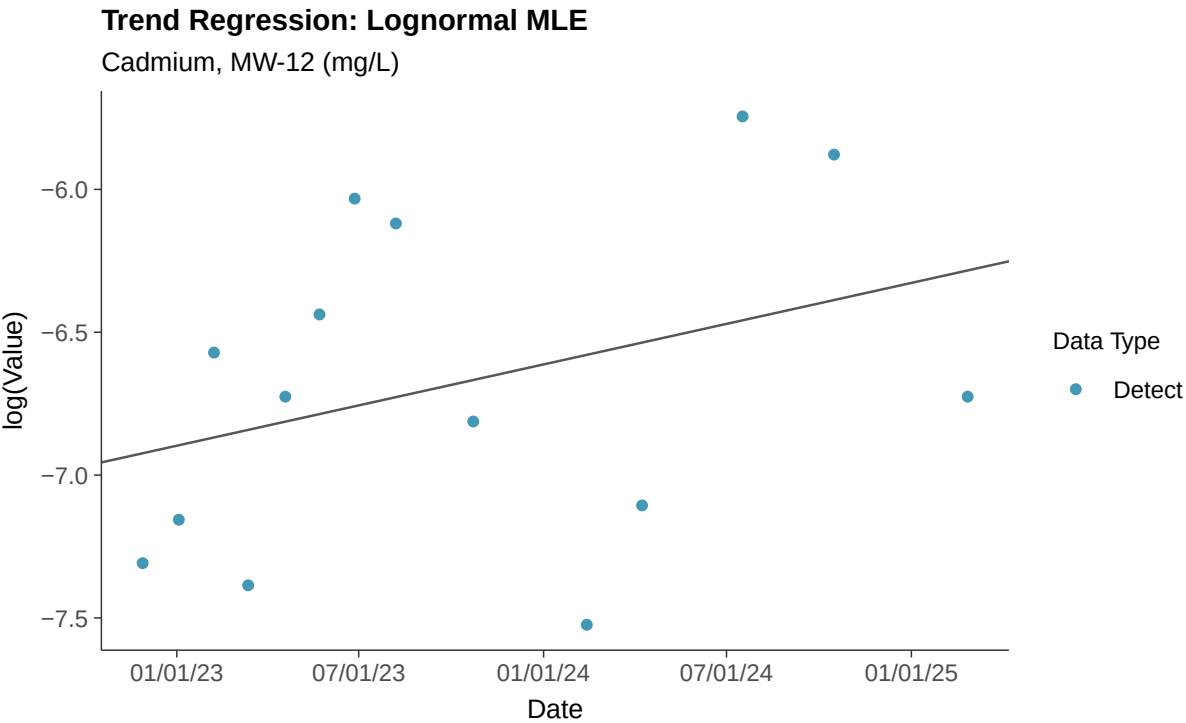
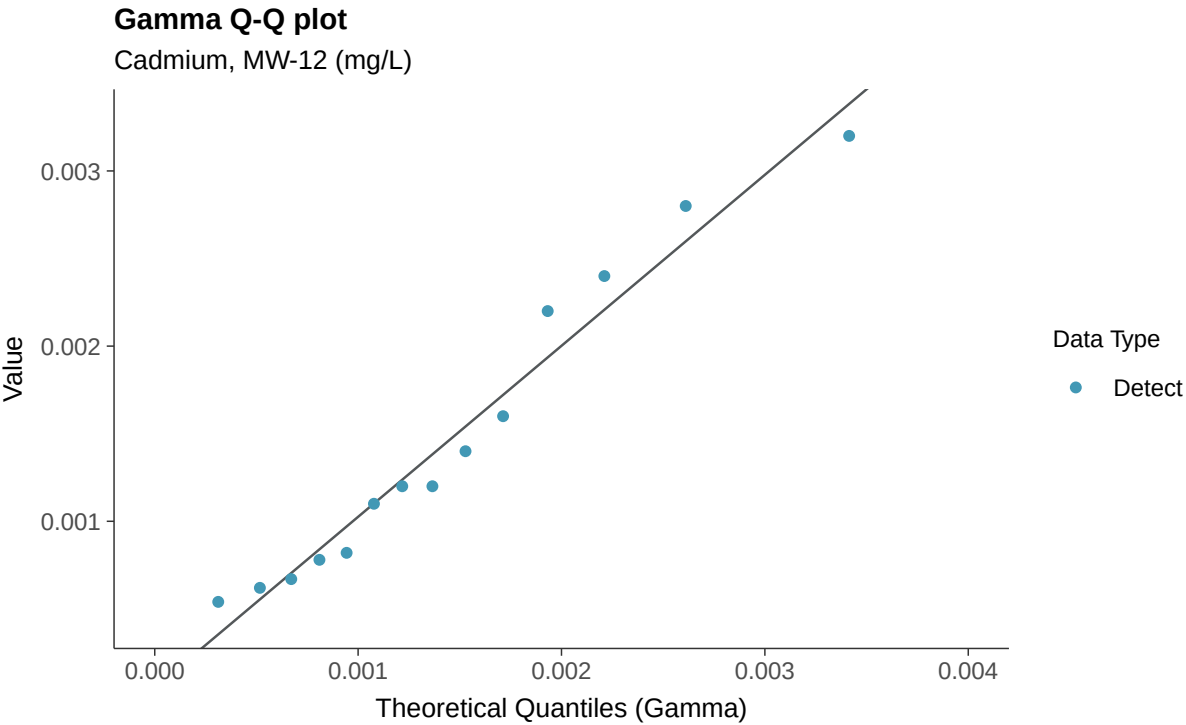
Appendix IV: Cadmium, MW-12

ID: 22_2_4_106





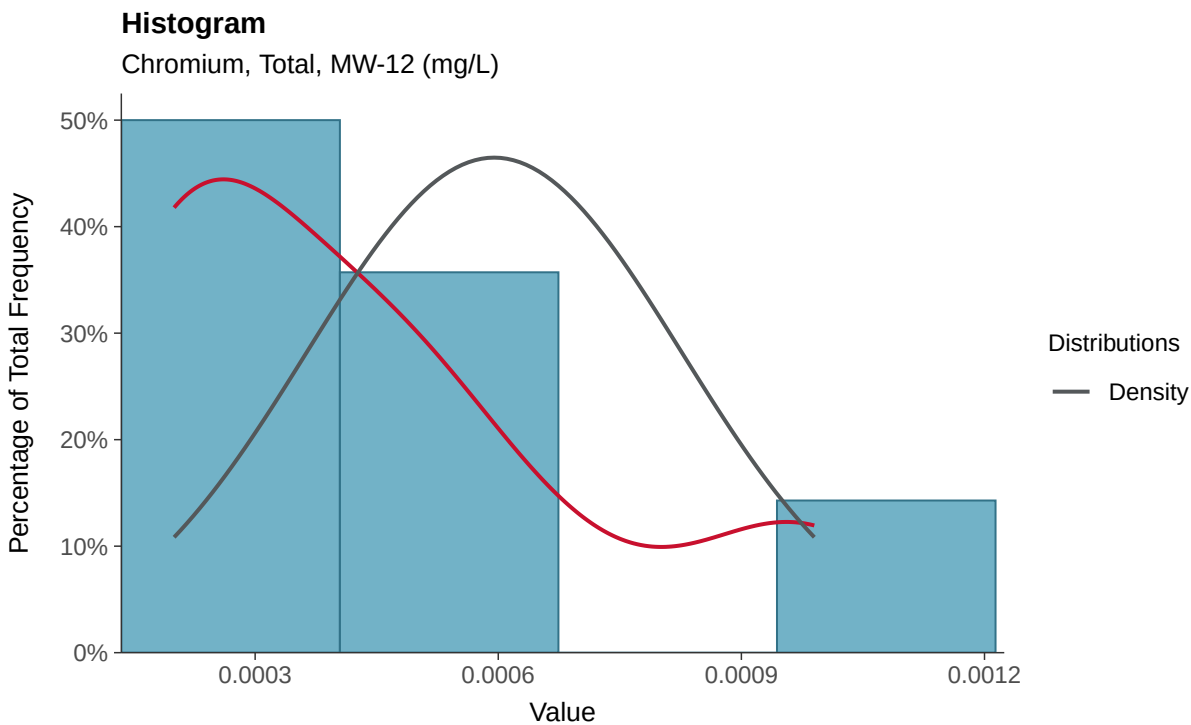
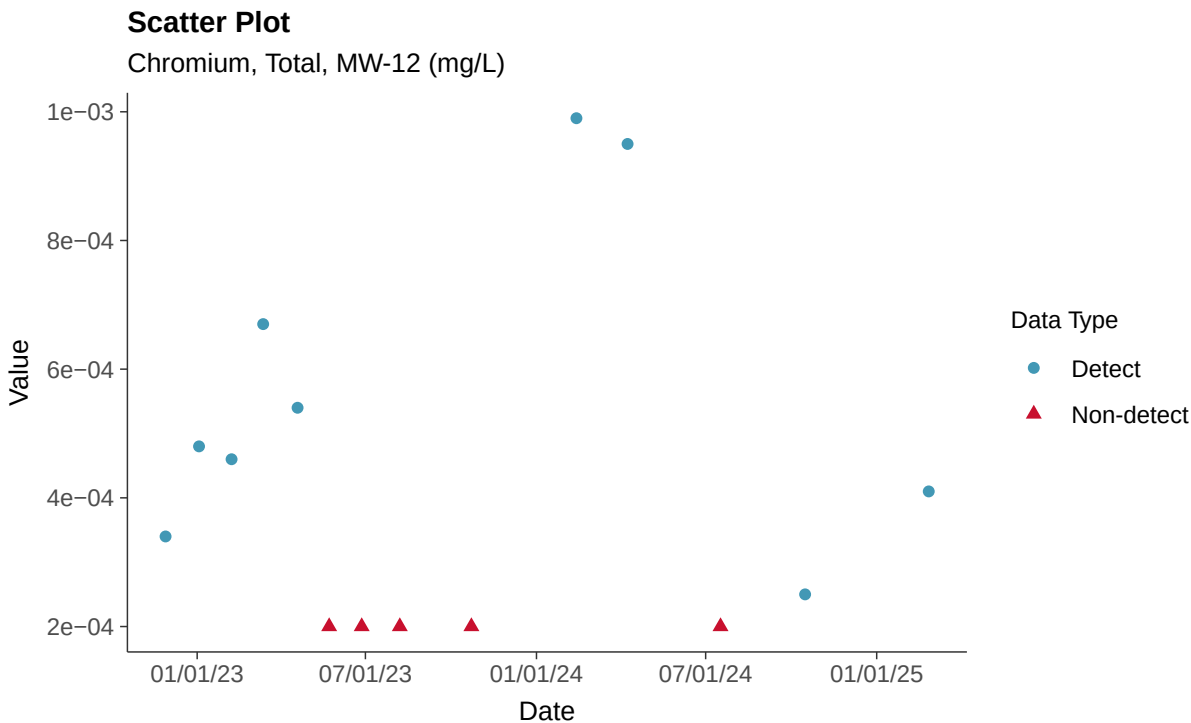


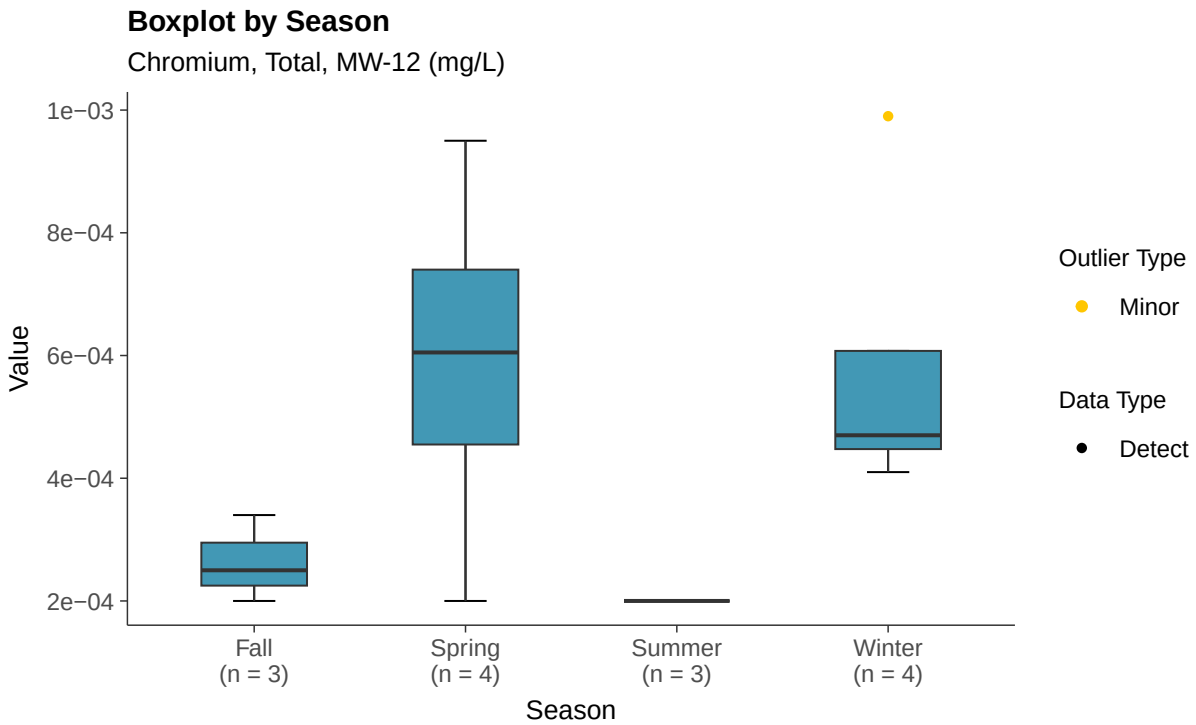
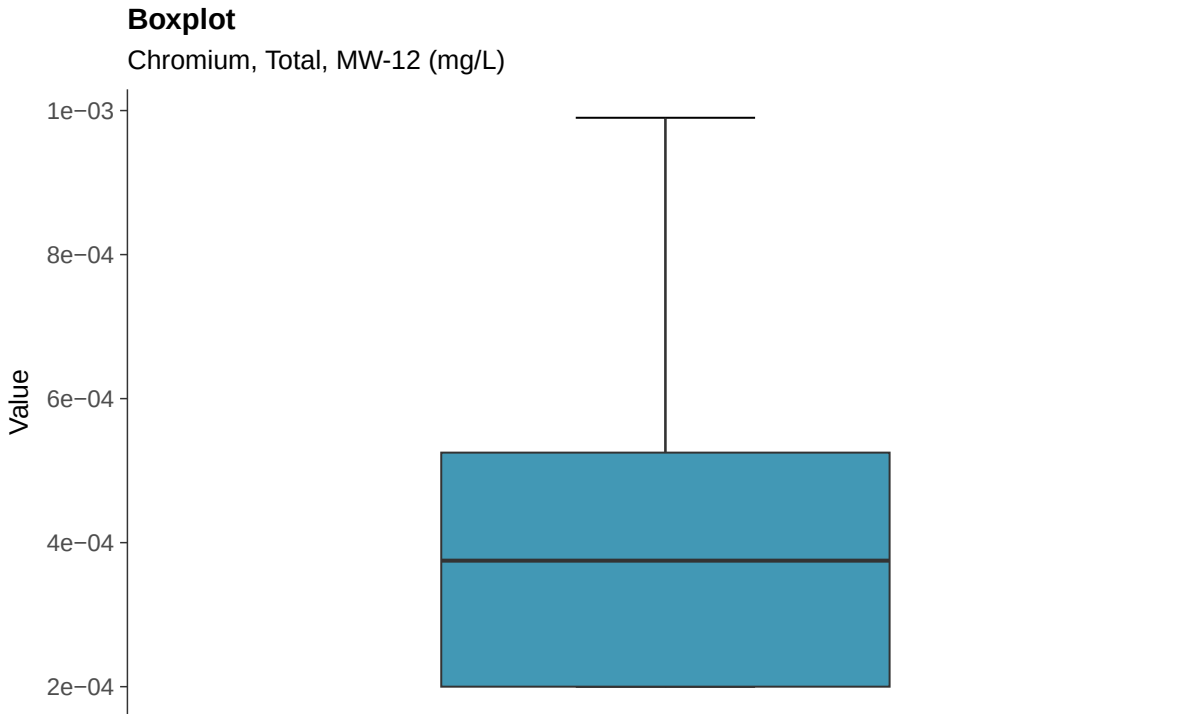




Appendix IV: Chromium, Total, MW-12

ID: 22_2_4_109

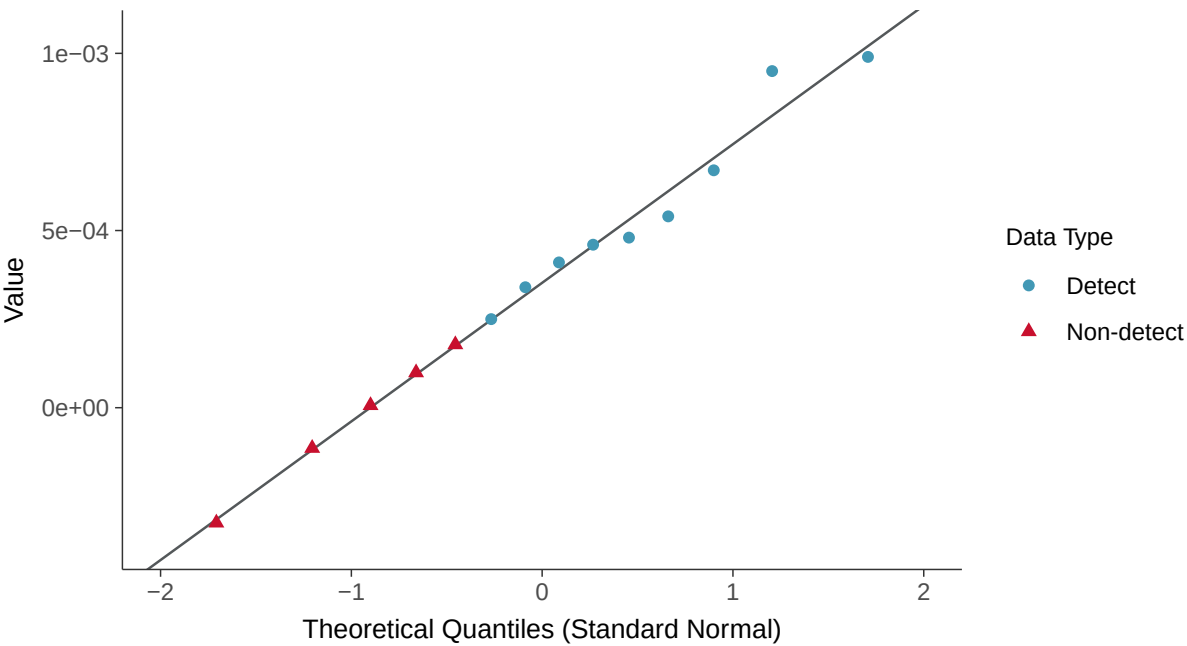






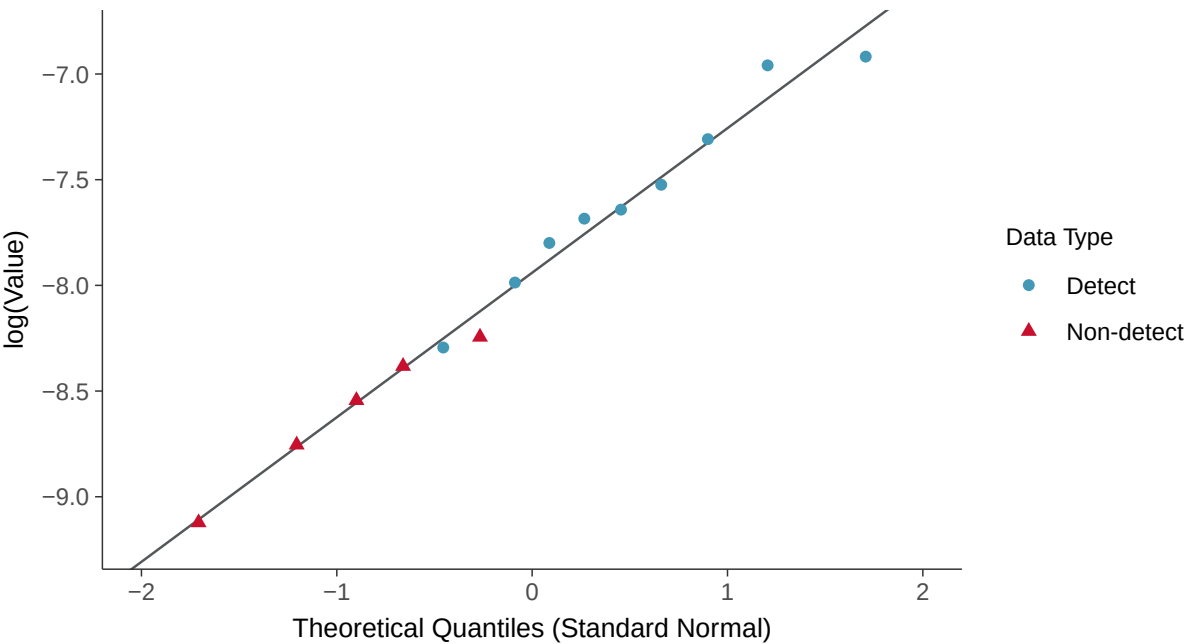
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

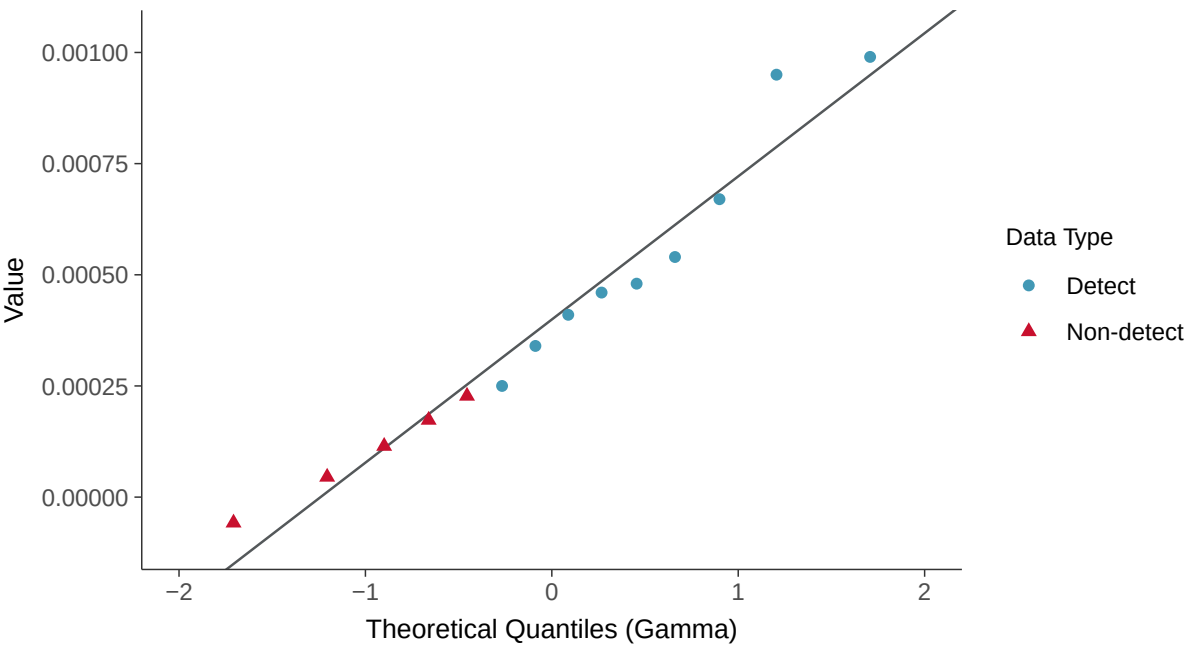
Chromium, Total, MW-12 (mg/L)





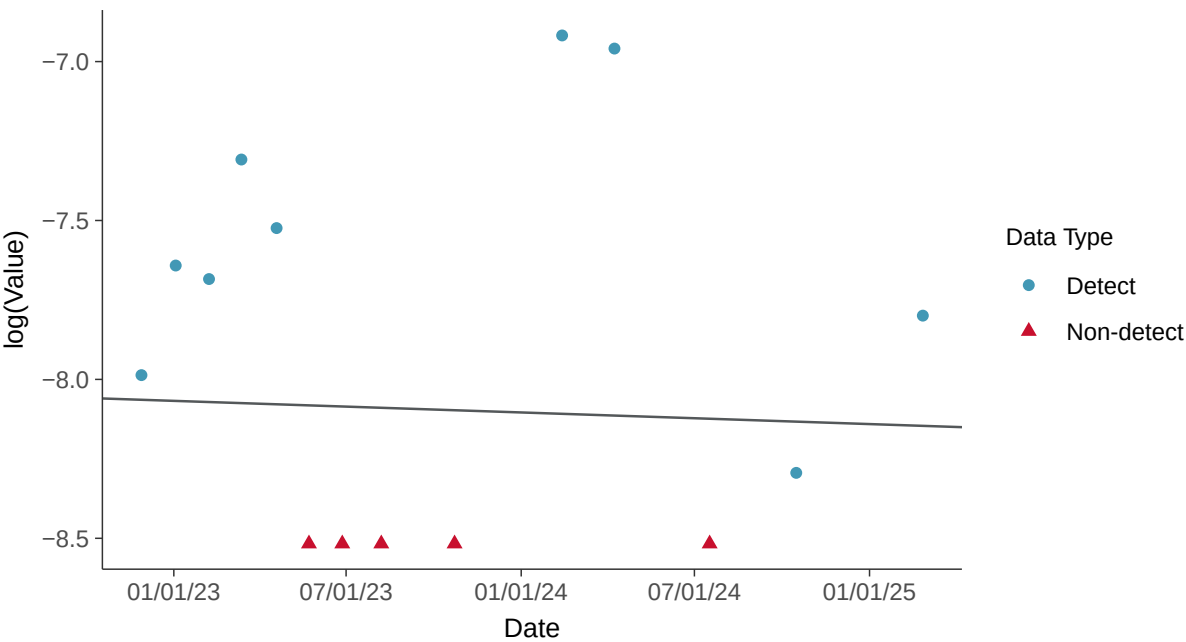
Gamma Q-Q plot using ROS Imputed Estimates

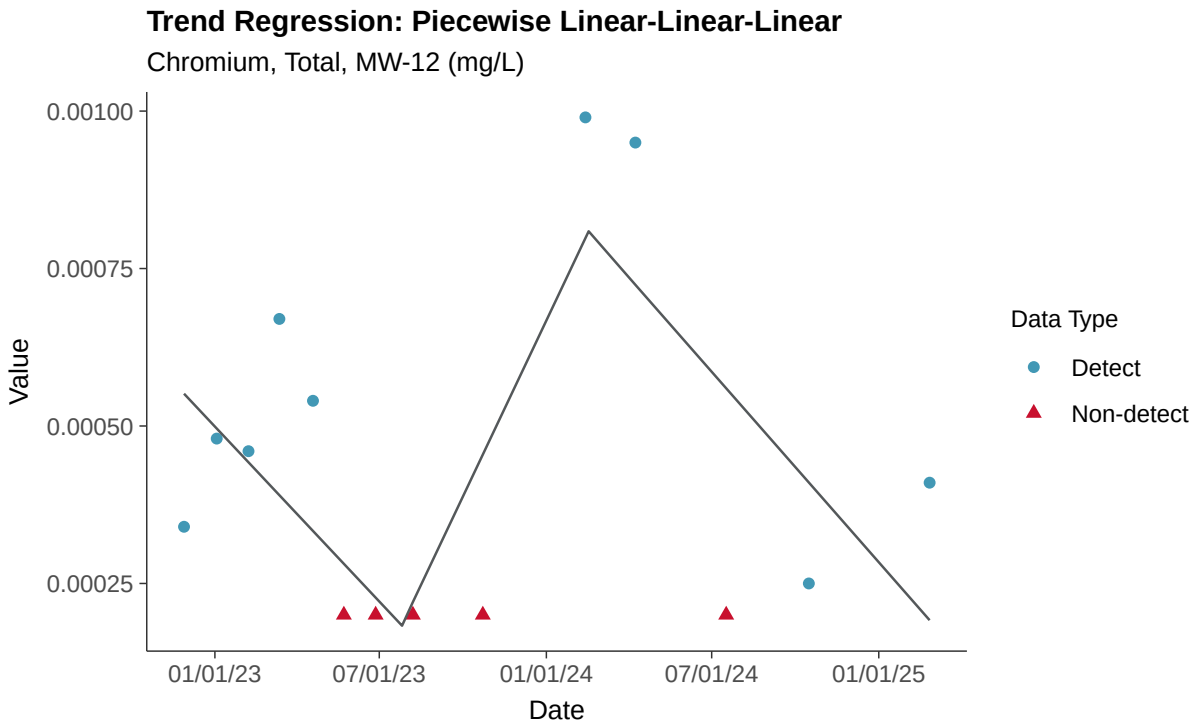
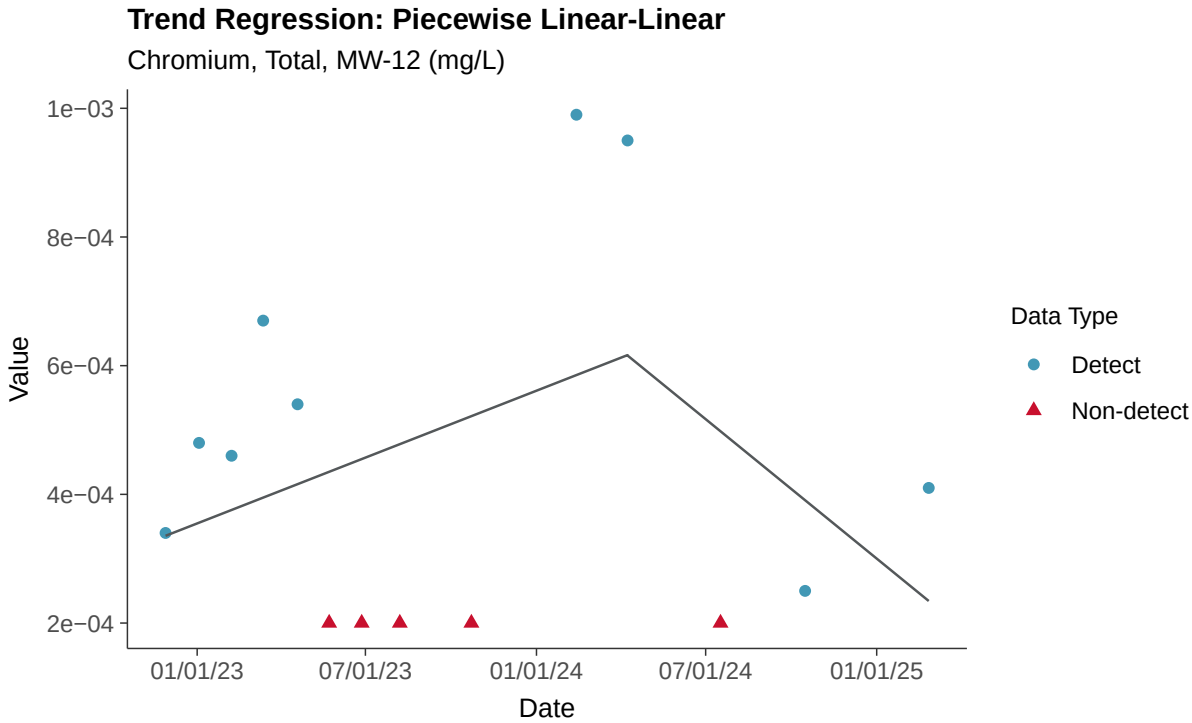
Chromium, Total, MW-12 (mg/L)



Trend Regression: Lognormal MLE

Chromium, Total, MW-12 (mg/L)

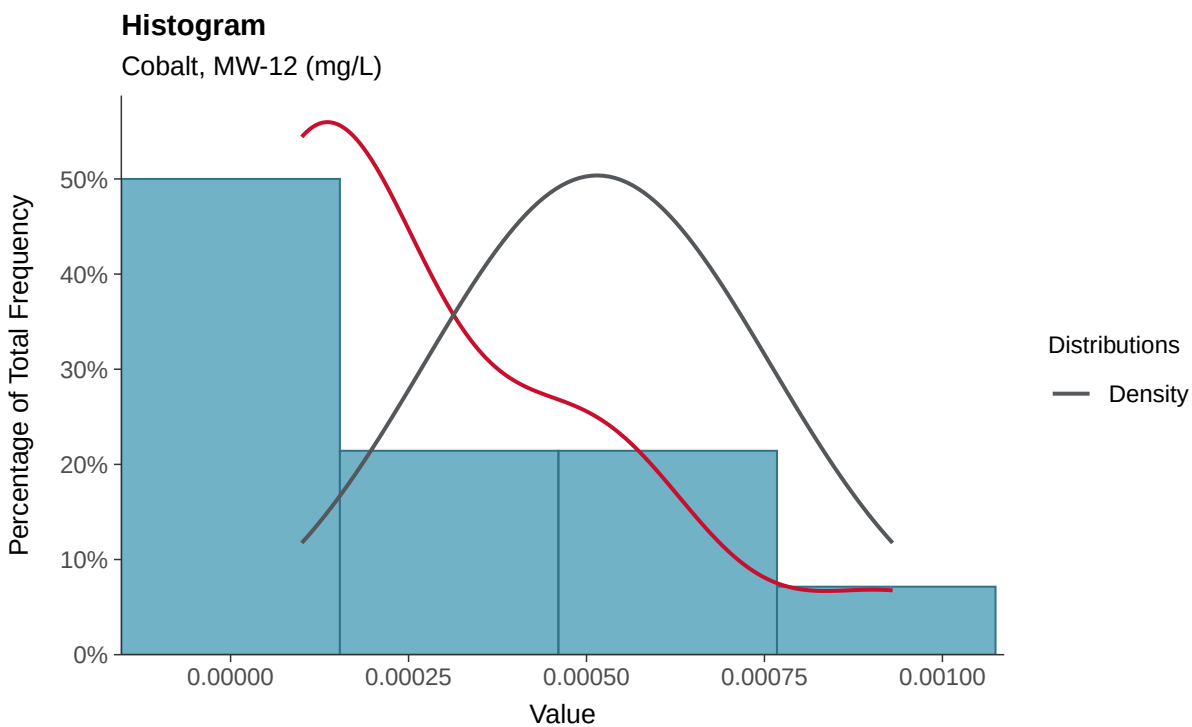
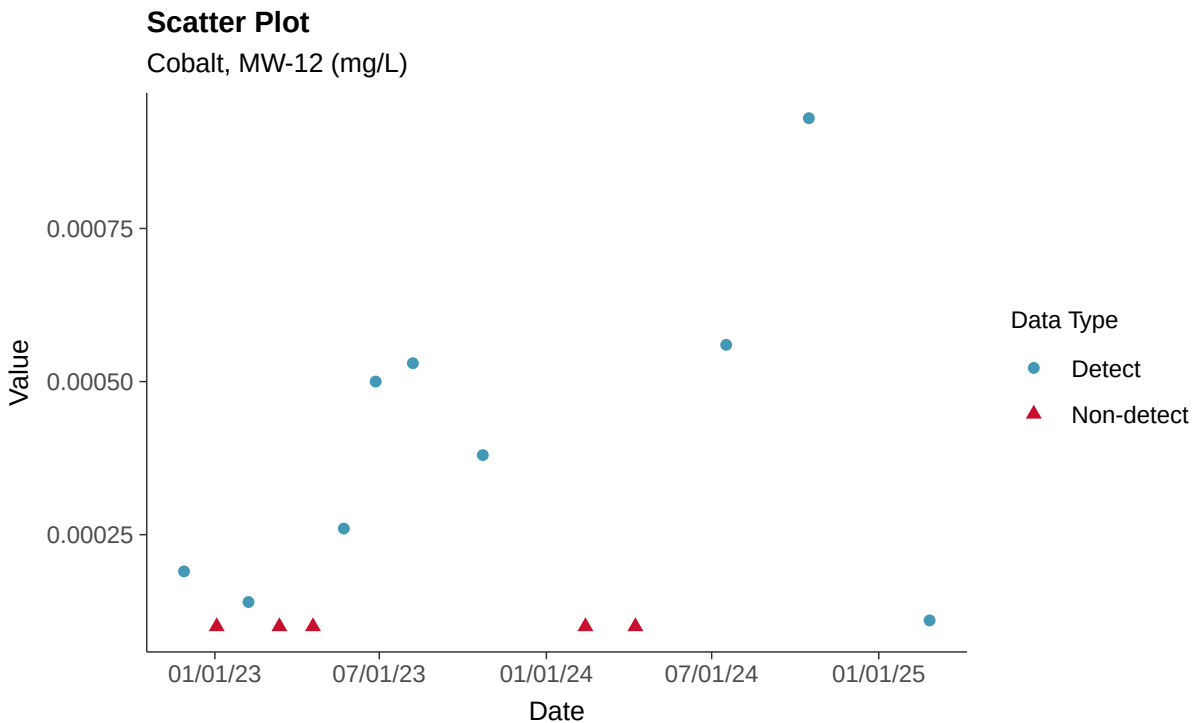


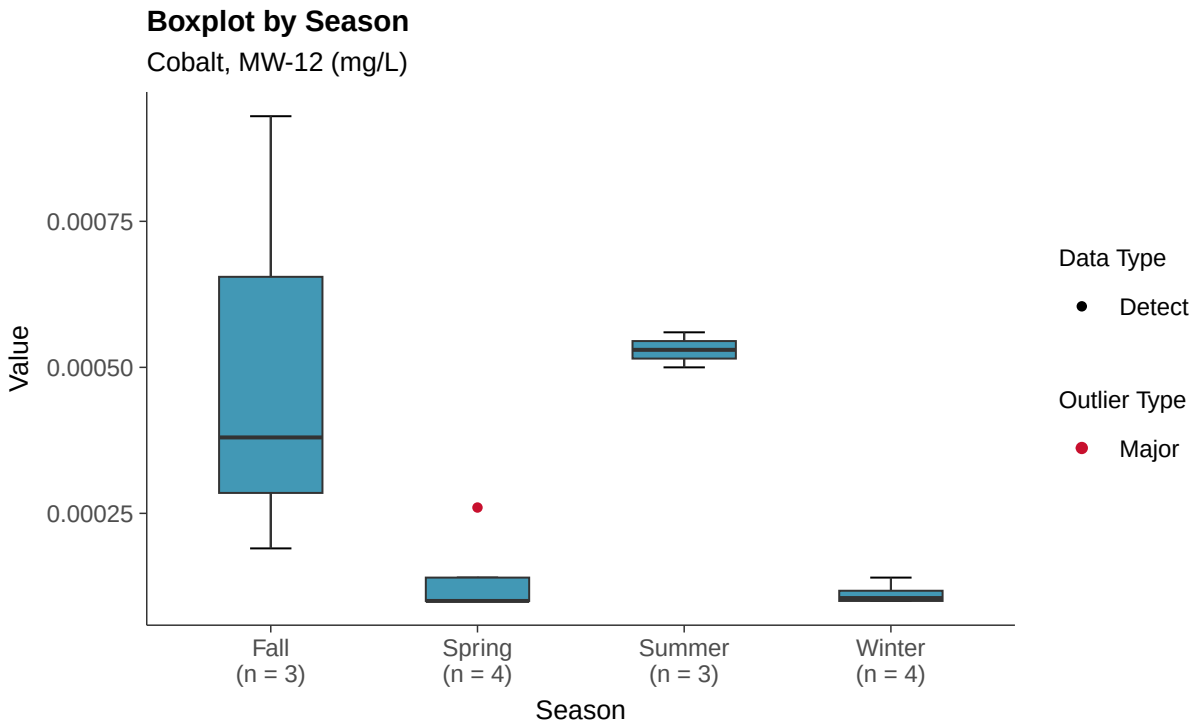
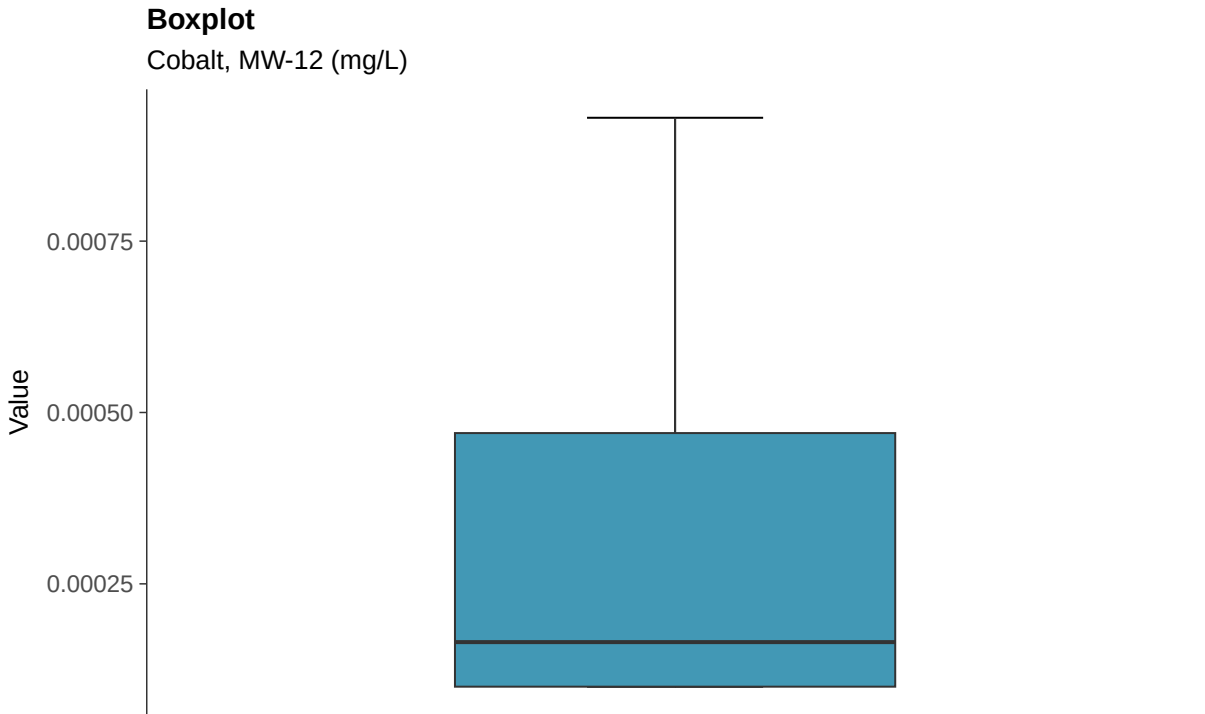




Appendix IV: Cobalt, MW-12

ID: 22_2_4_110

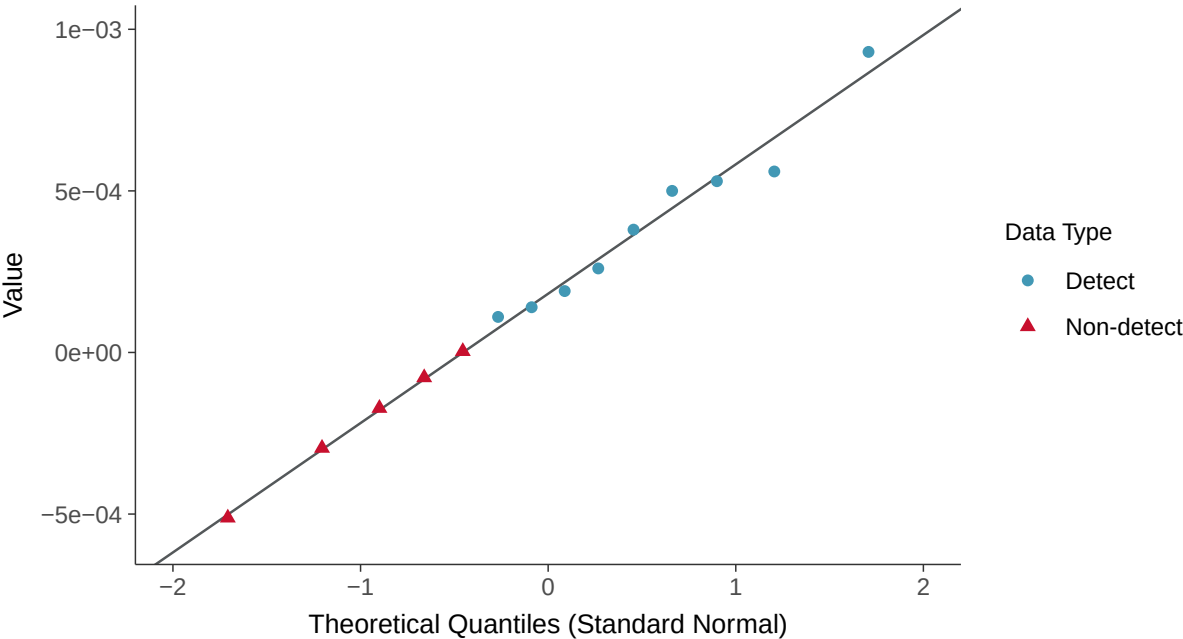






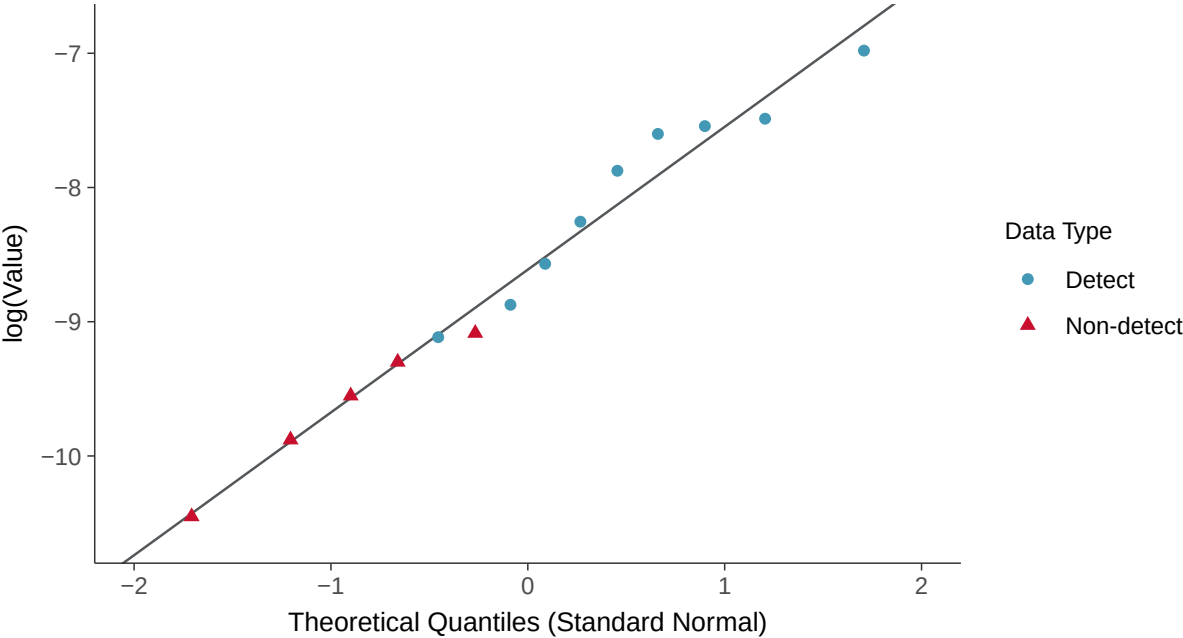
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

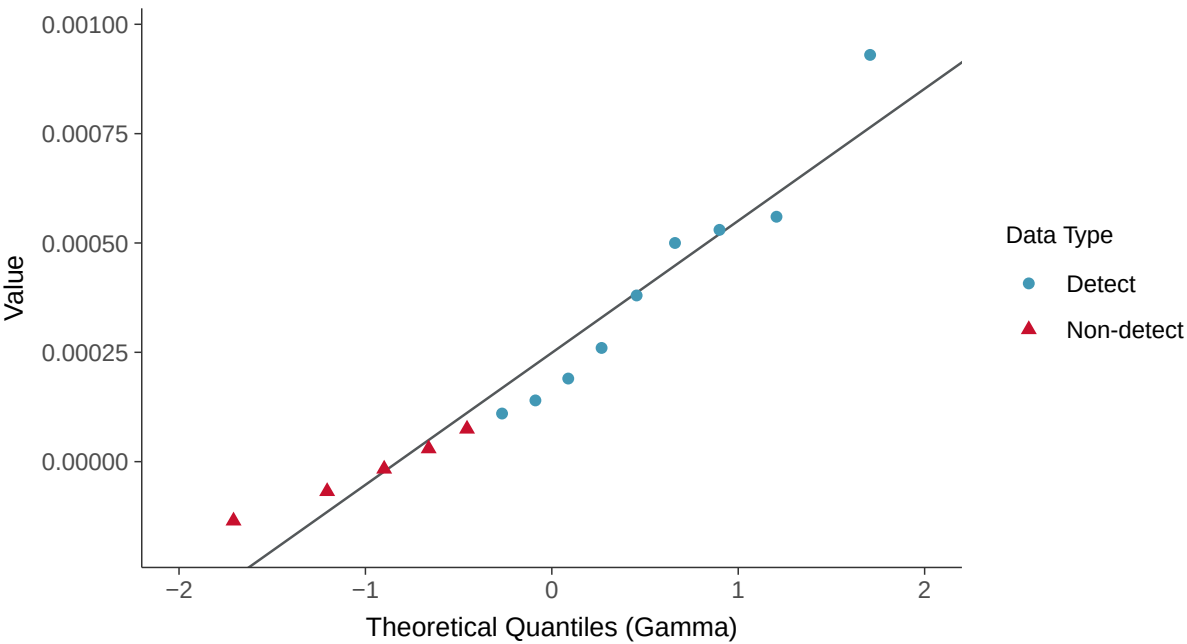
Cobalt, MW-12 (mg/L)





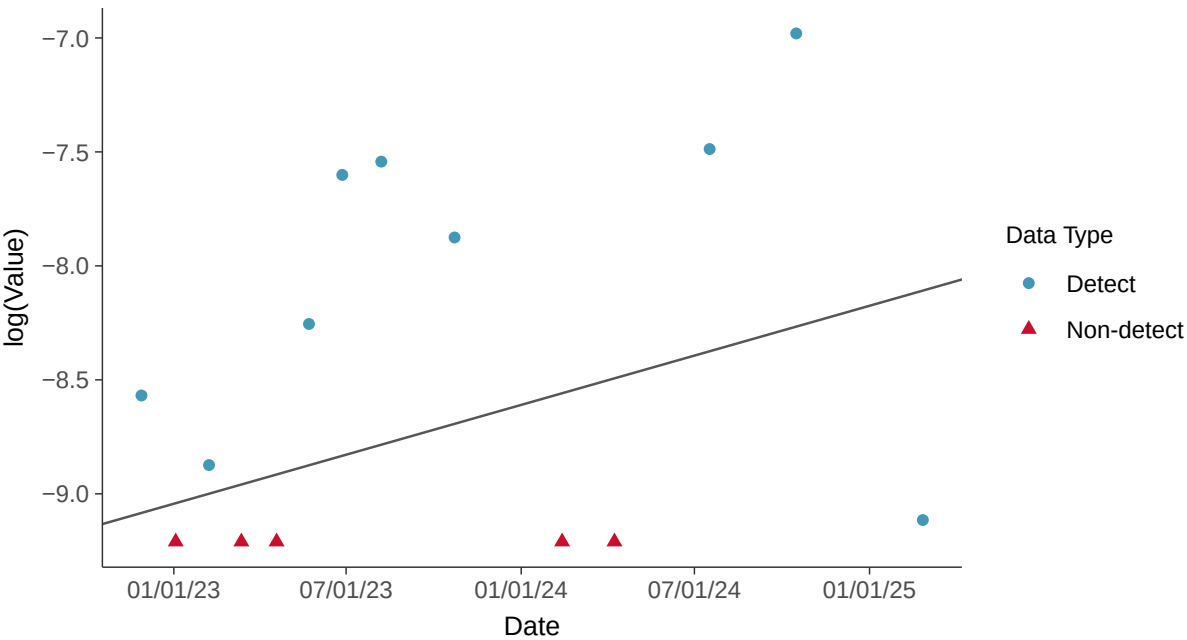
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



Trend Regression: Lognormal MLE

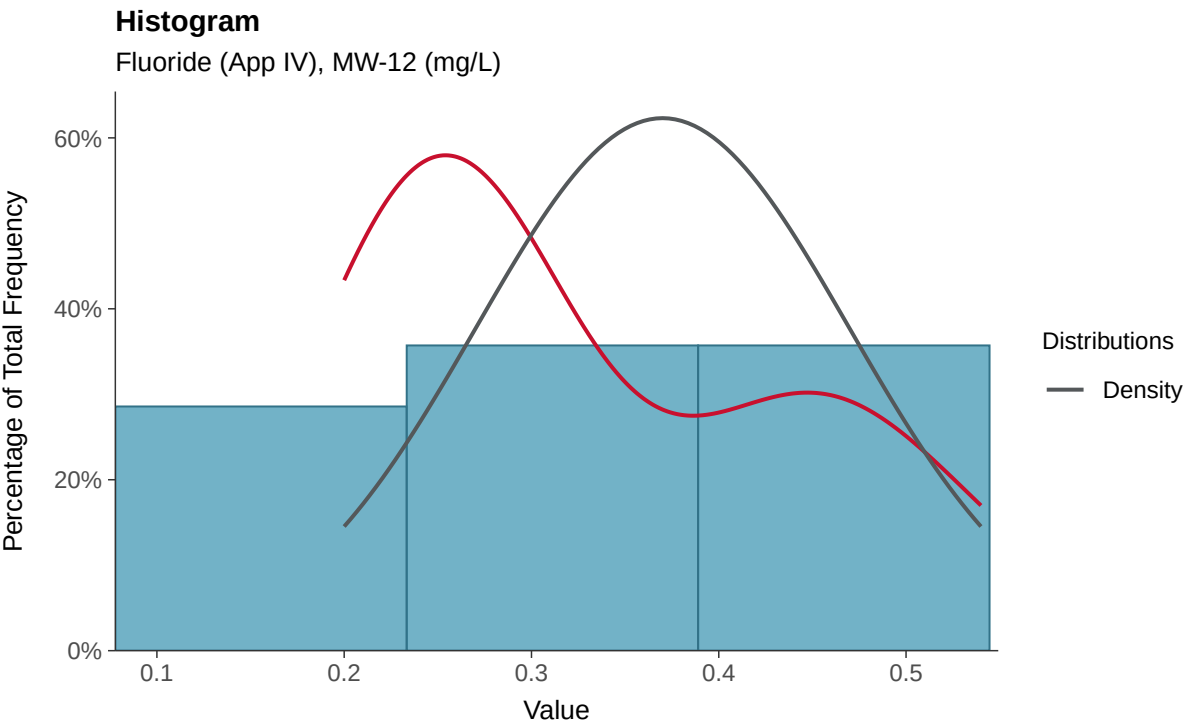
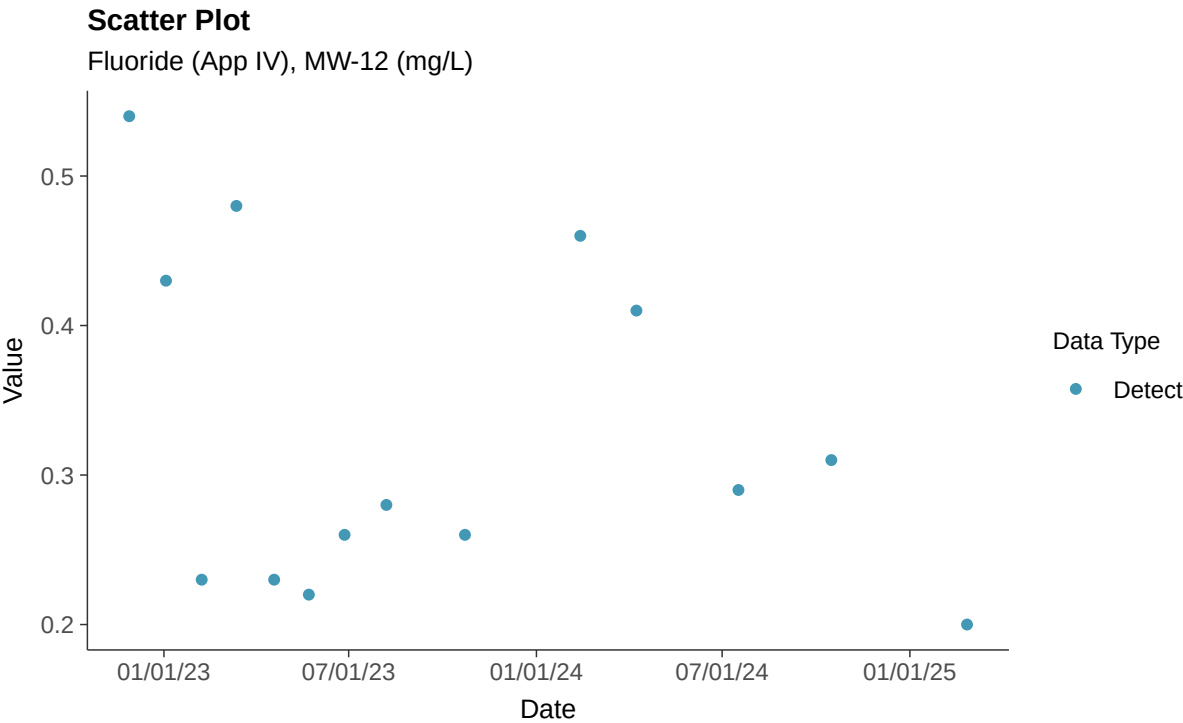
Cobalt, MW-12 (mg/L)

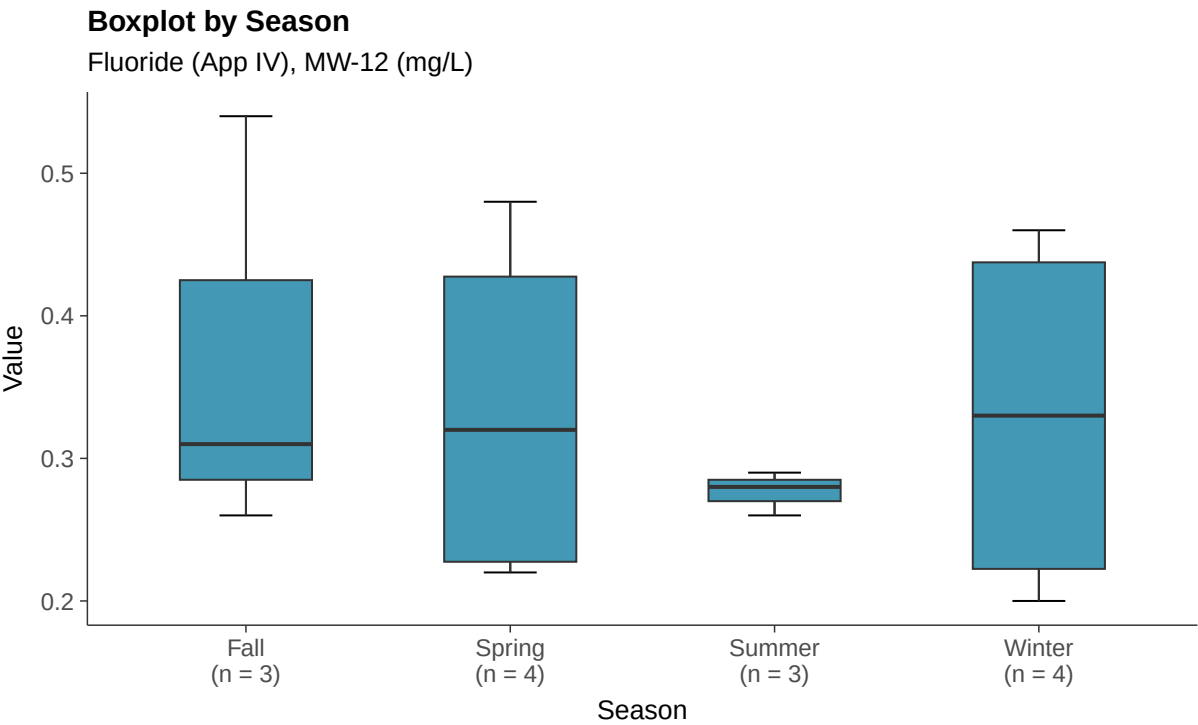
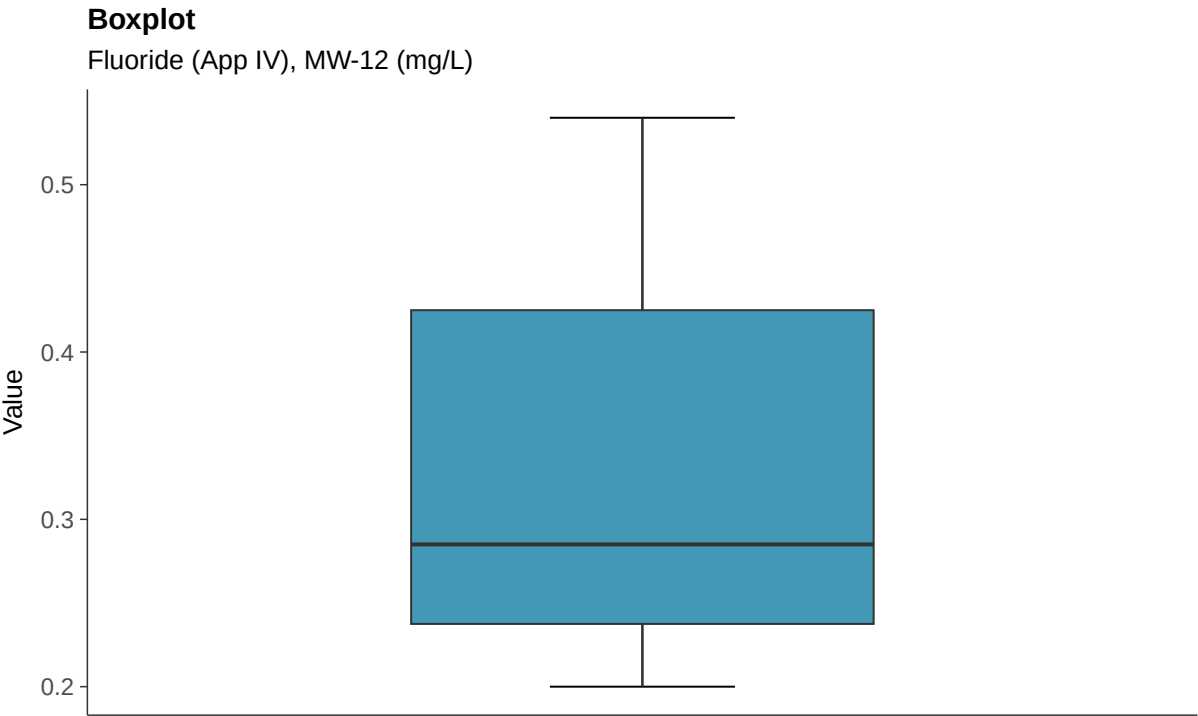




Appendix IV: Fluoride (App IV), MW-12

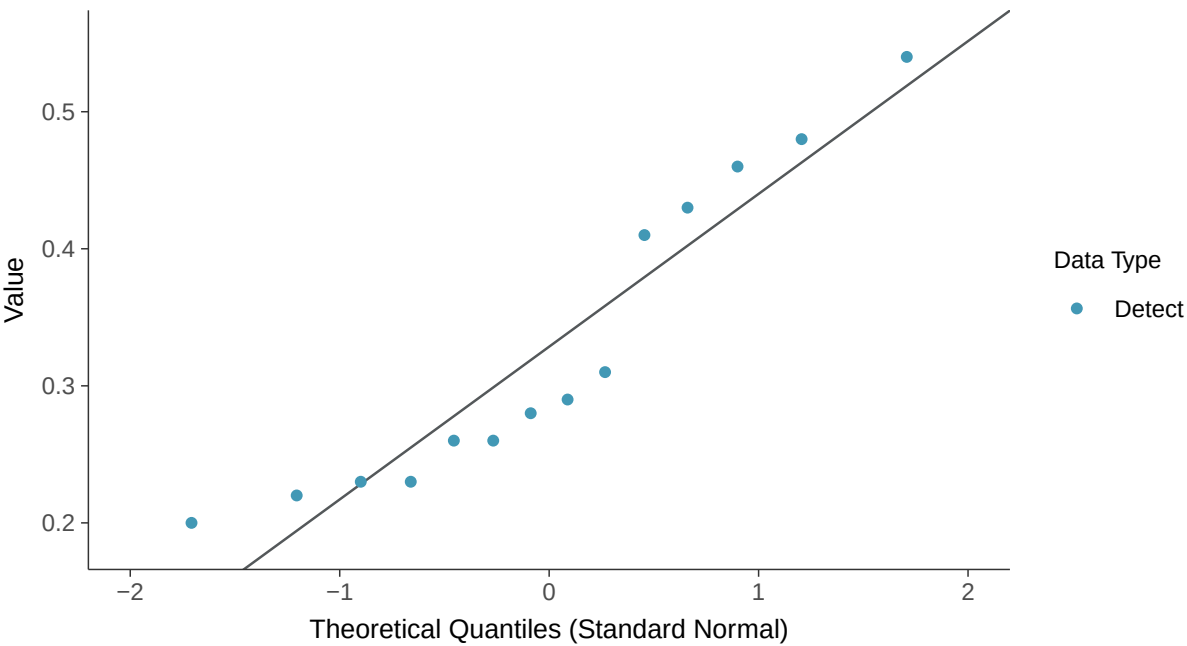
ID: 22_2_4_113



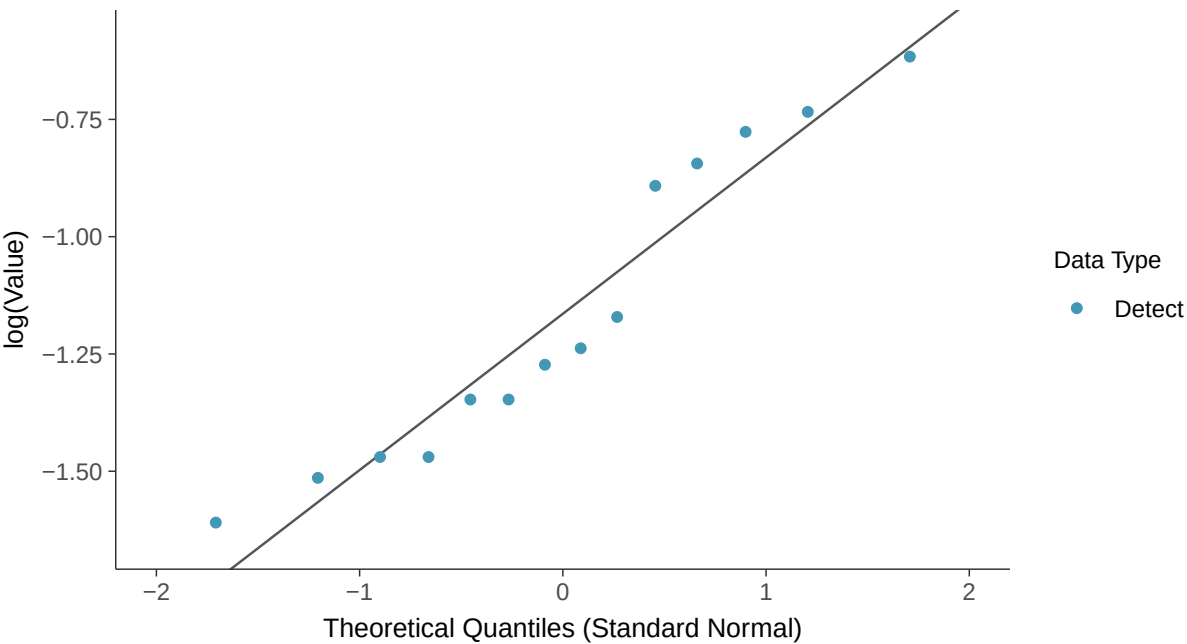


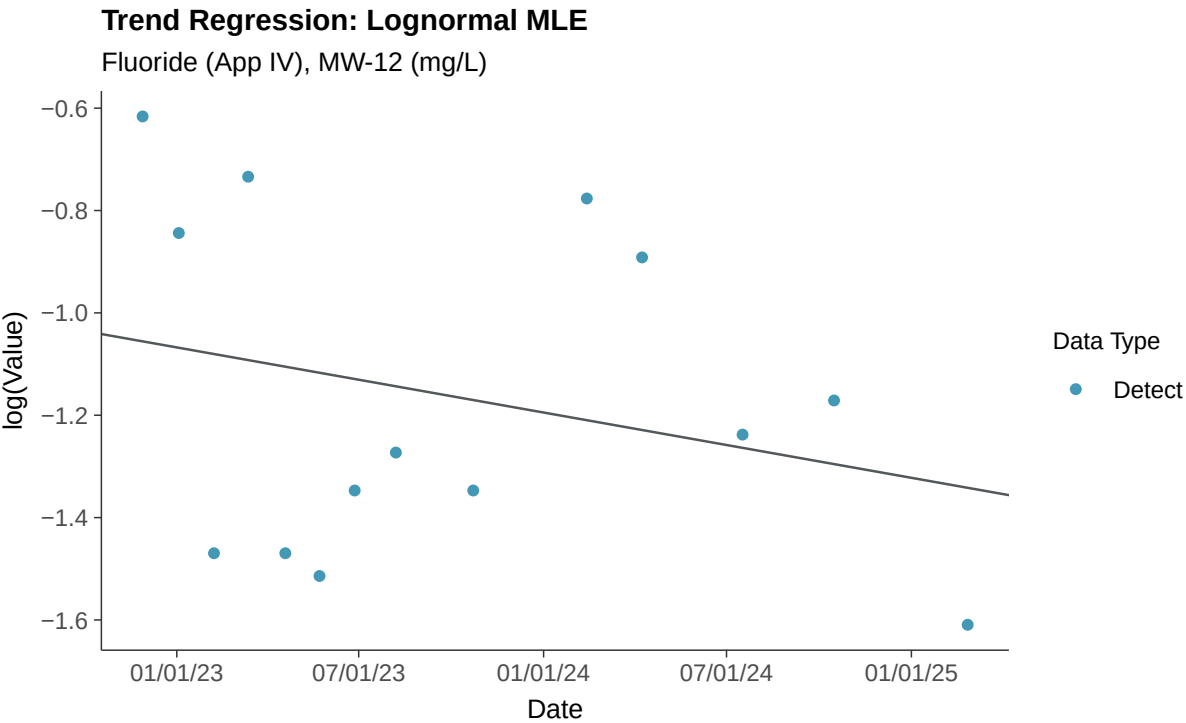
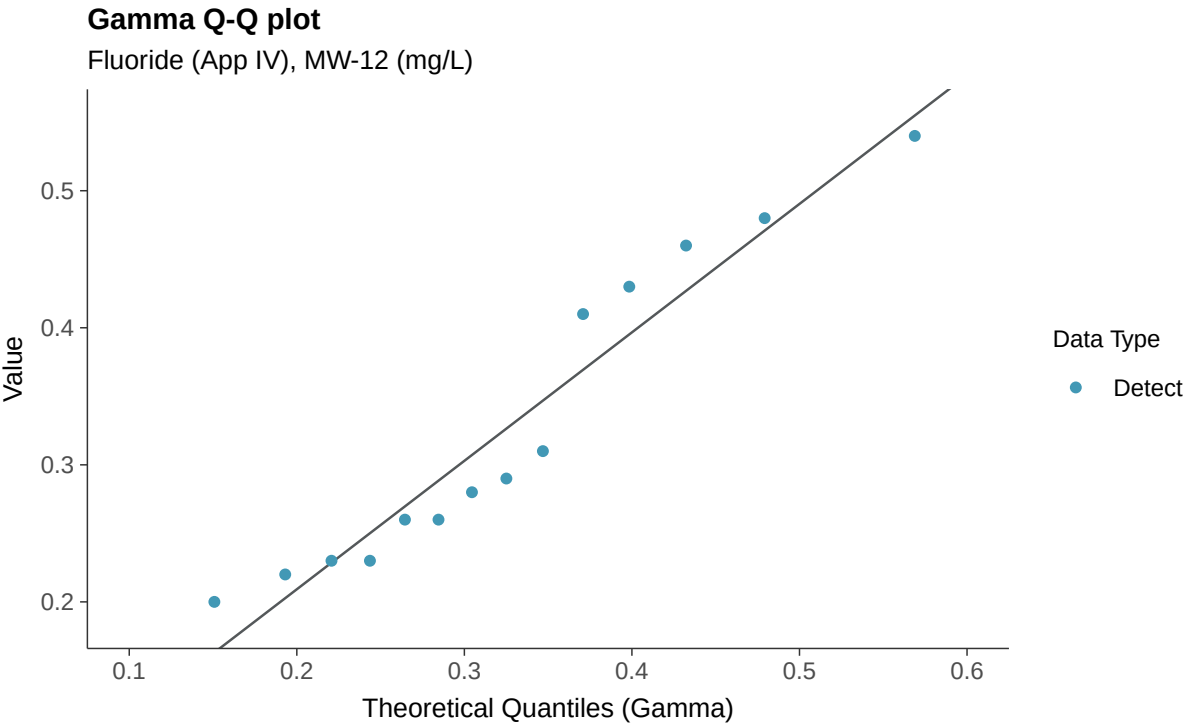


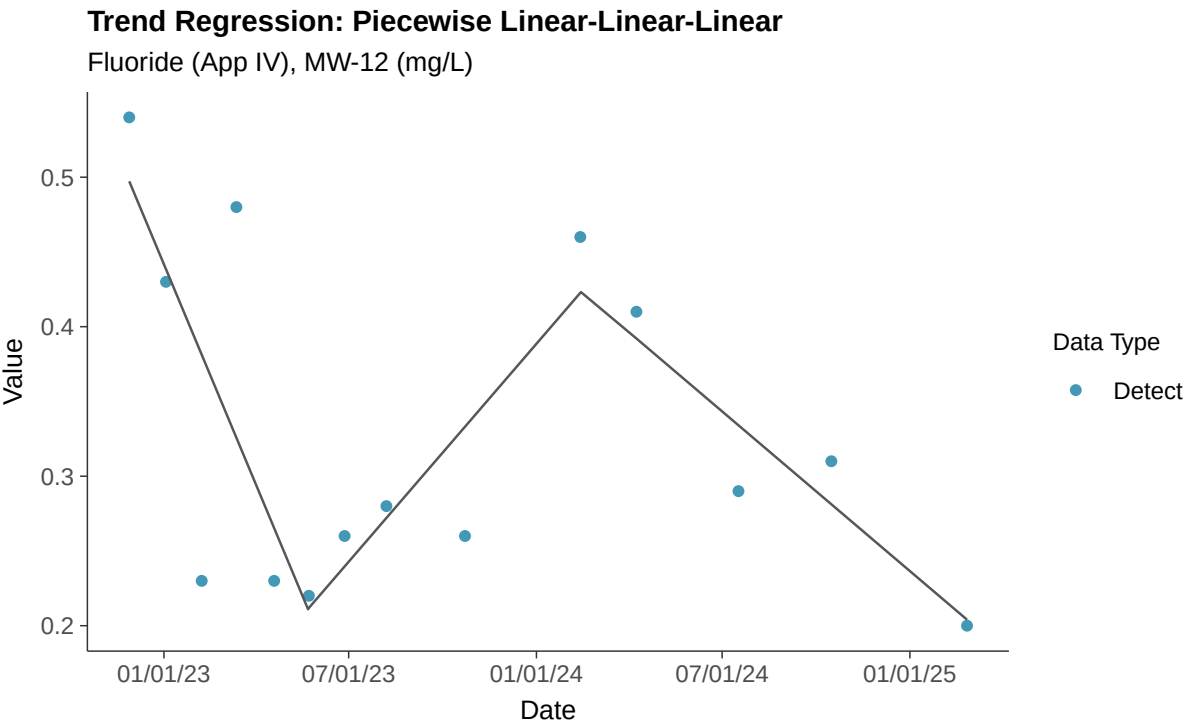
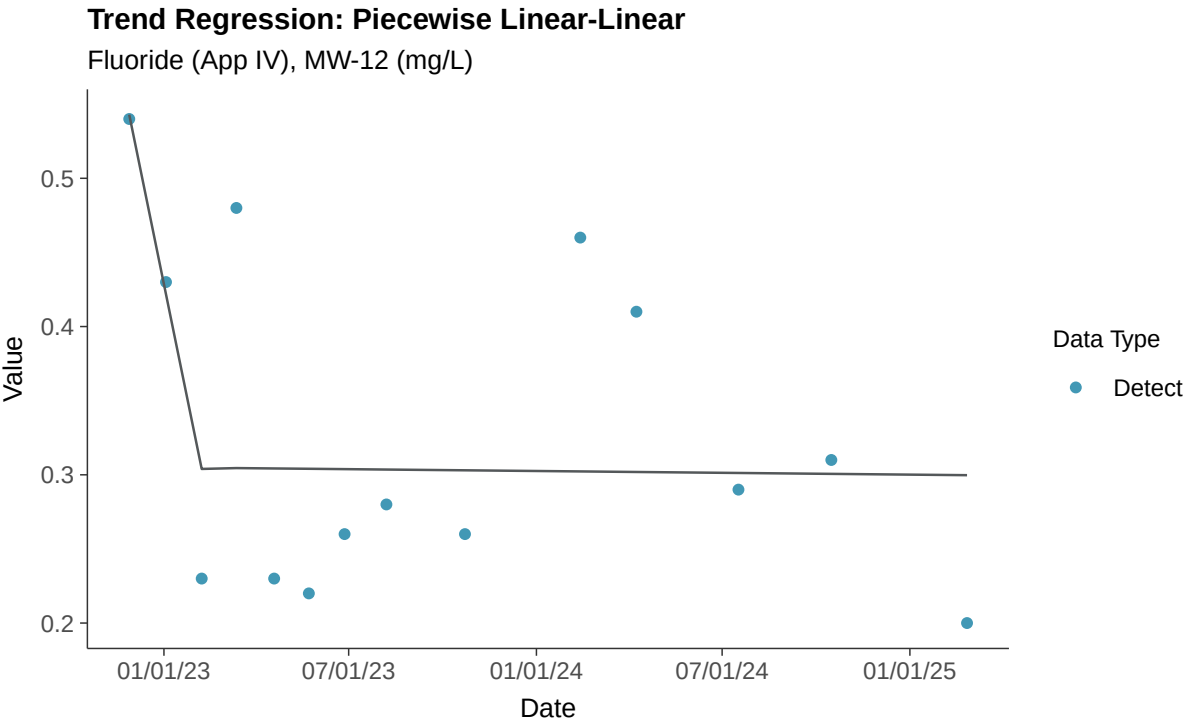
Normal Q-Q plot
Fluoride (App IV), MW-12 (mg/L)



Lognormal Q-Q plot
Fluoride (App IV), MW-12 (mg/L)



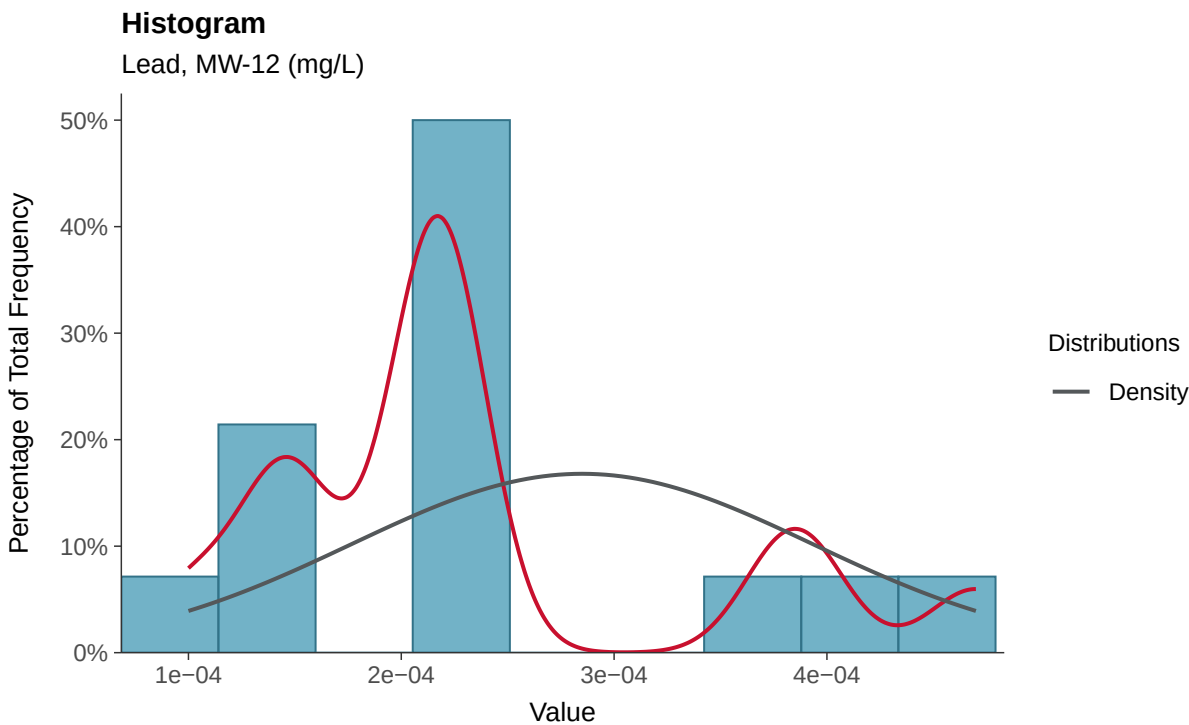
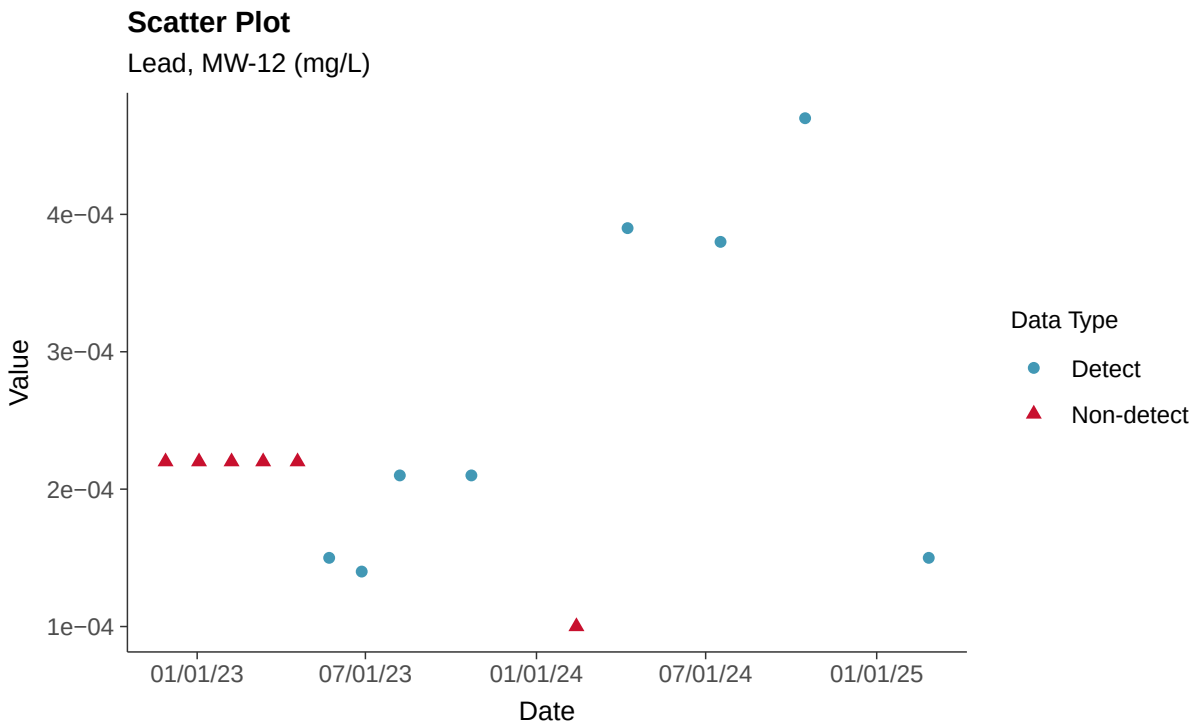


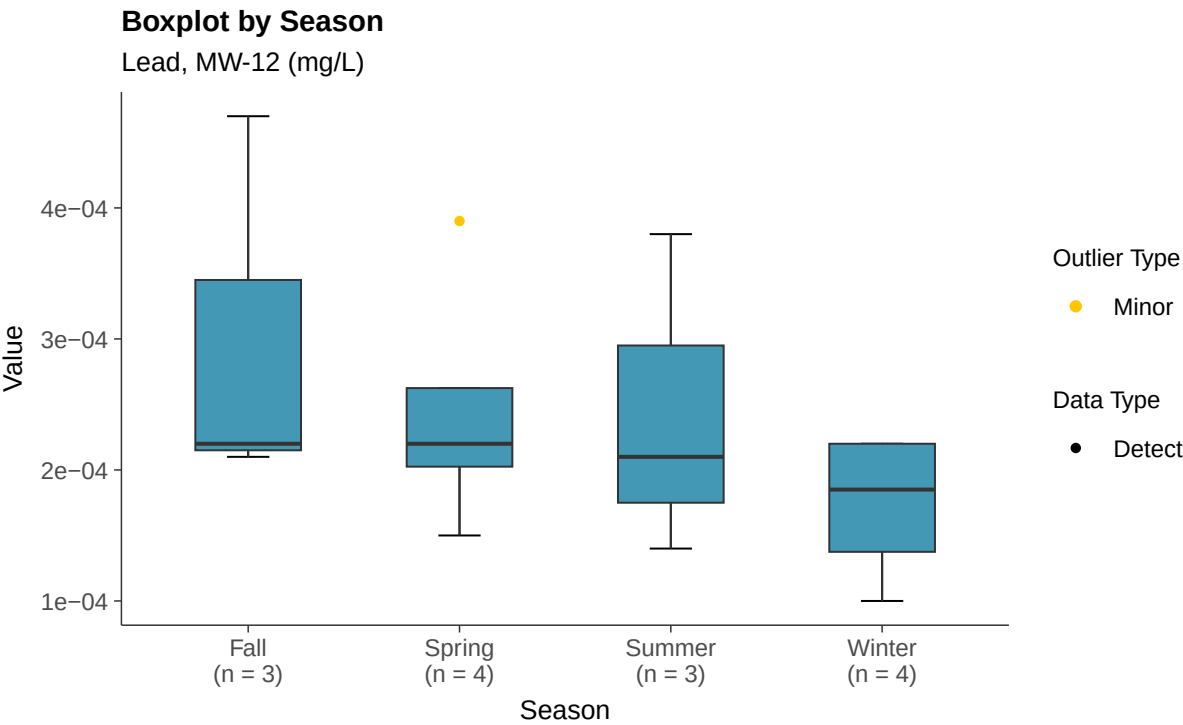
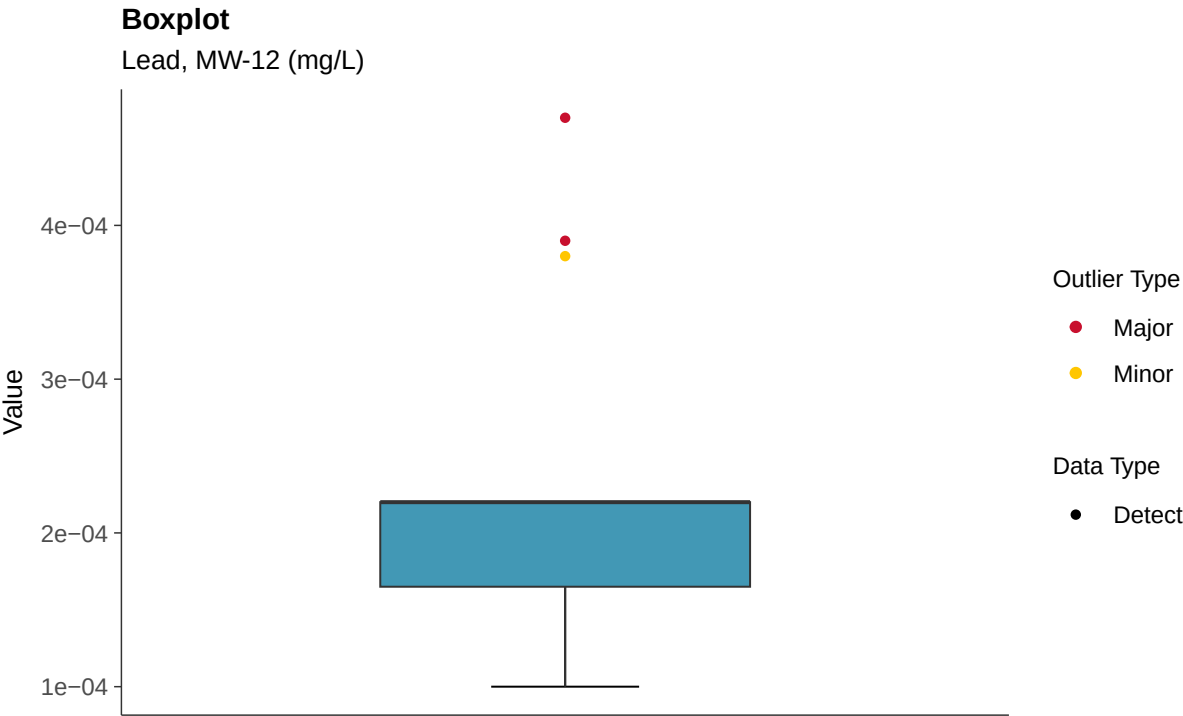




Appendix IV: Lead, MW-12

ID: 22_2_4_115

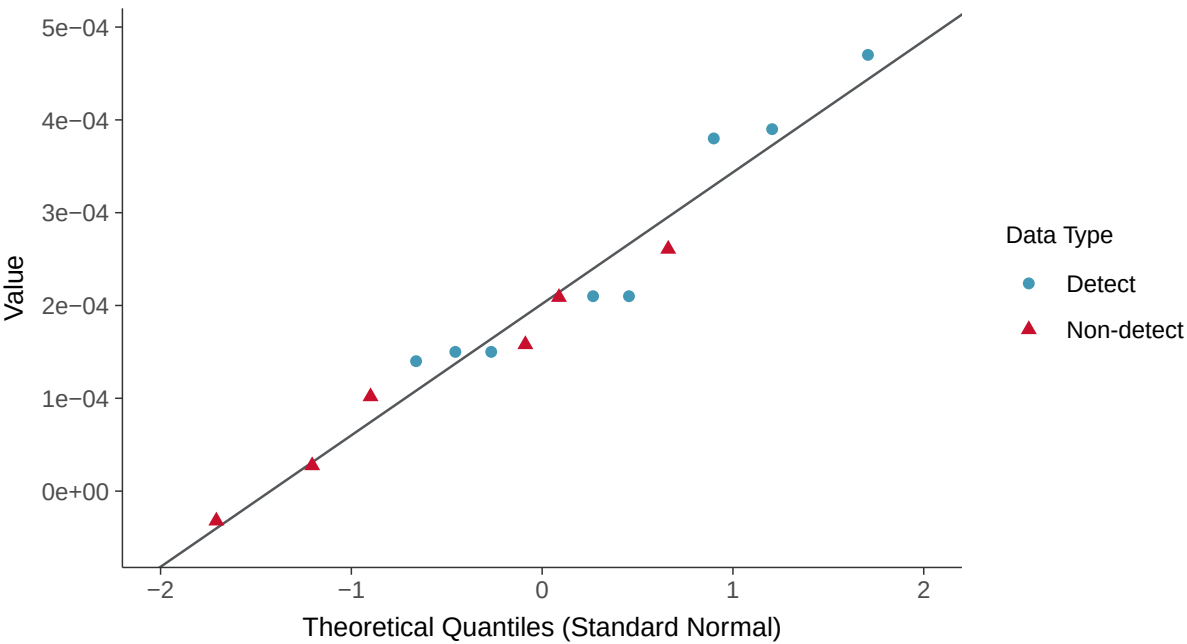






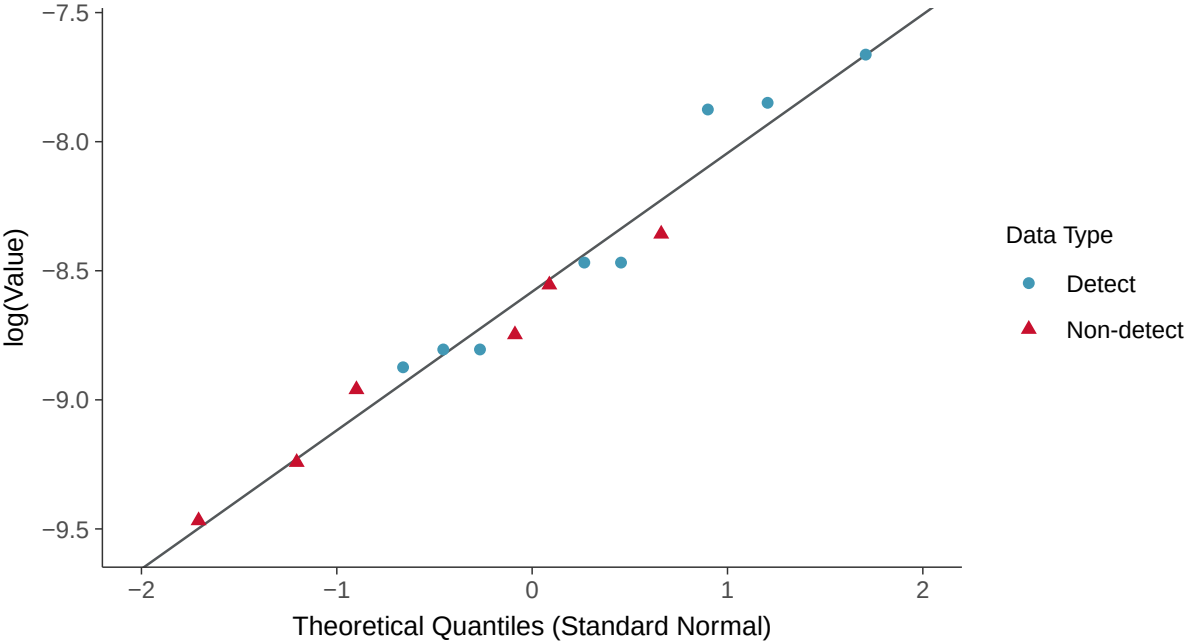
Normal Q-Q plot using ROS Imputed Estimates

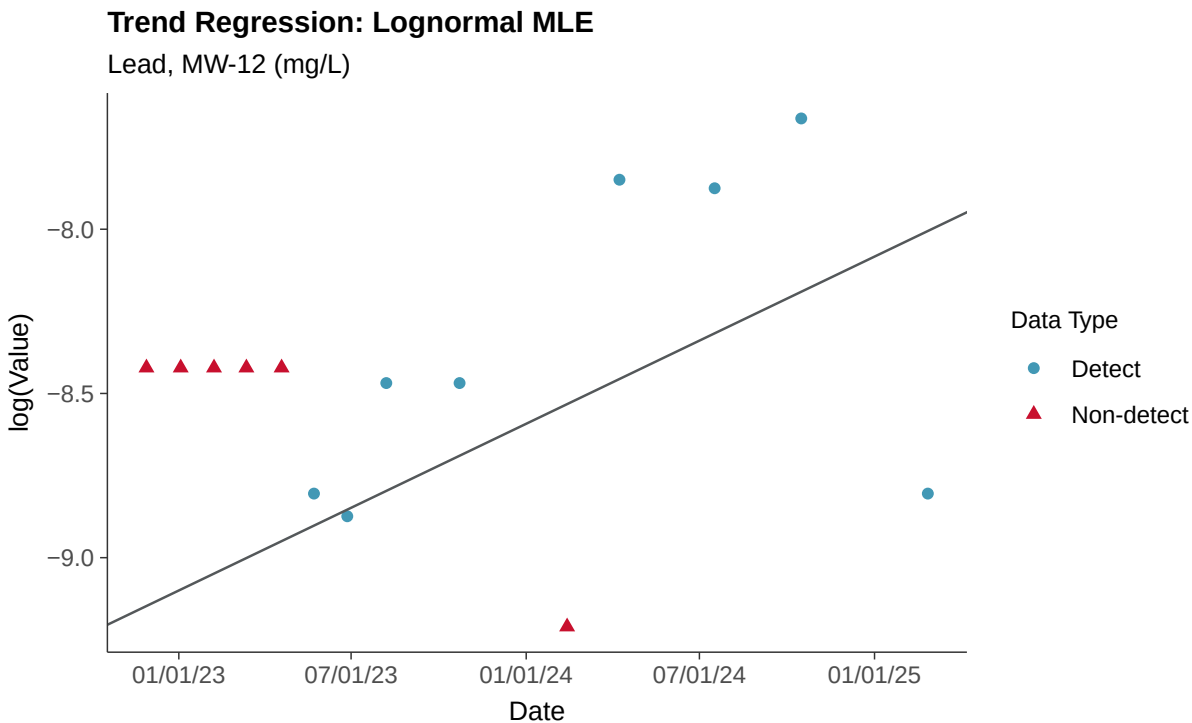
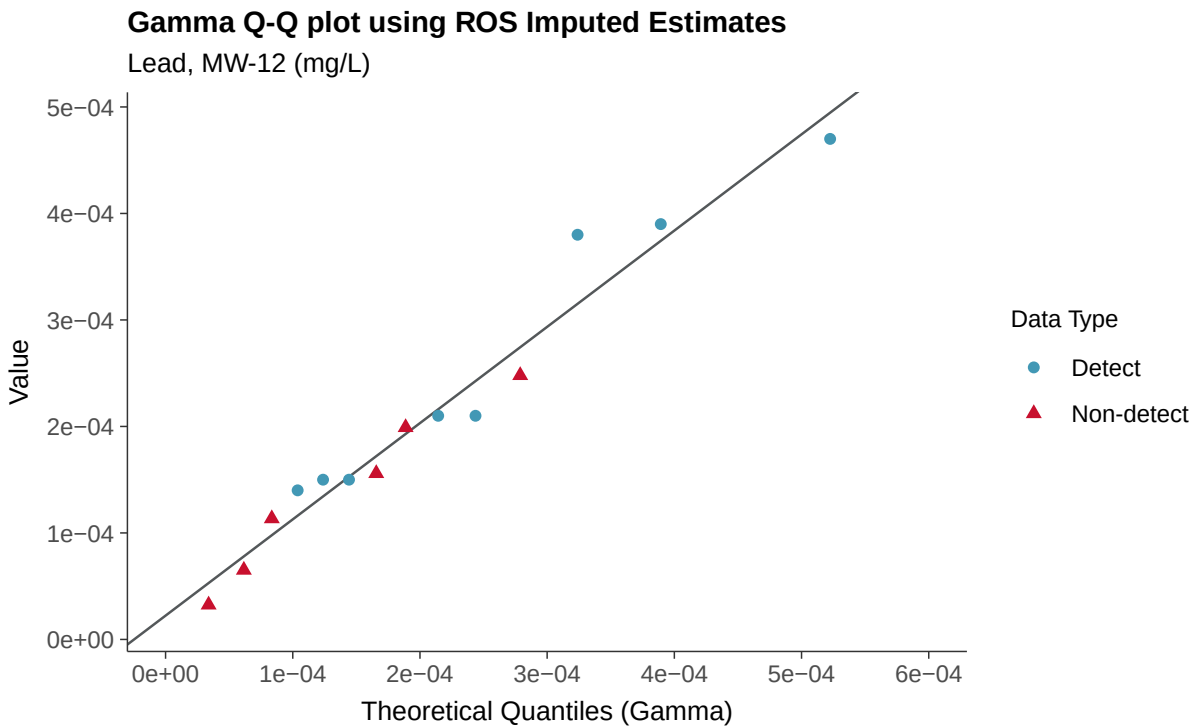
Lead, MW-12 (mg/L)

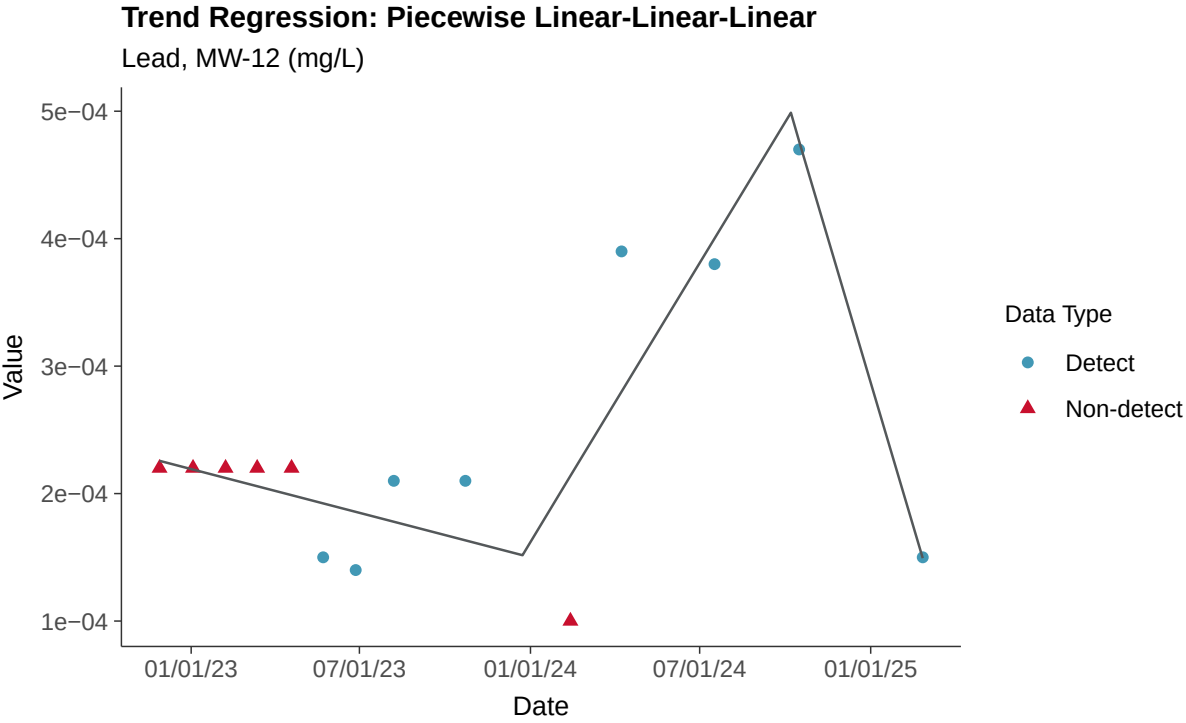


Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)



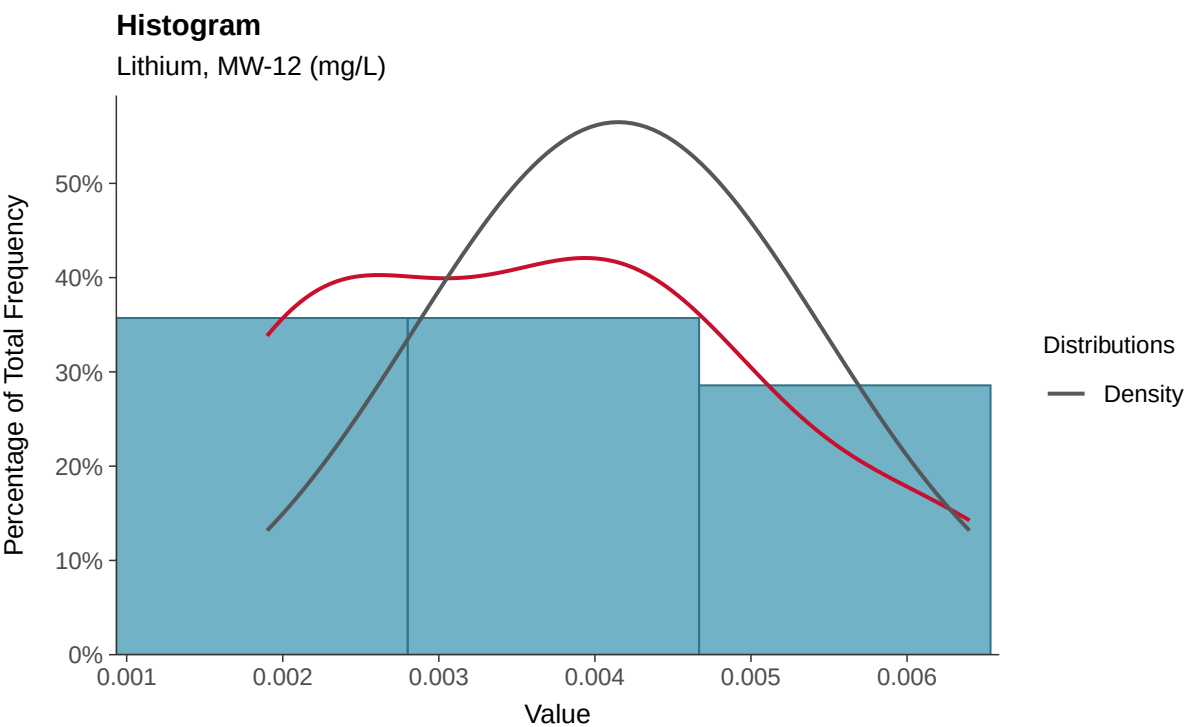
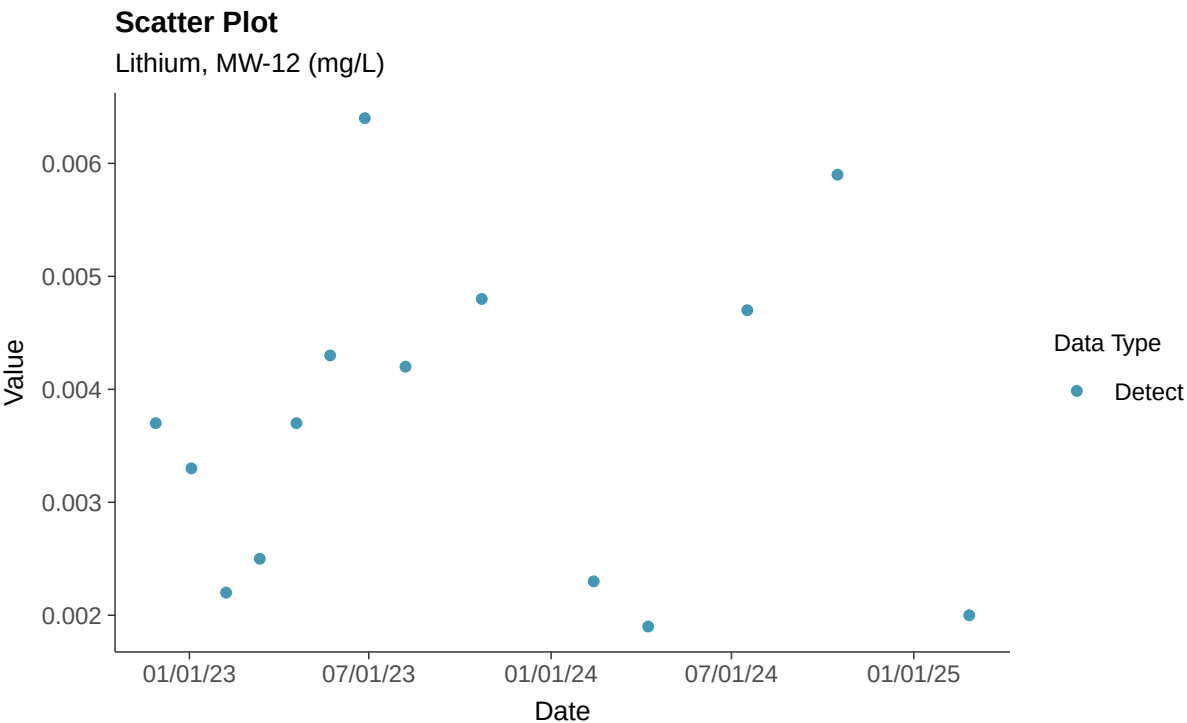


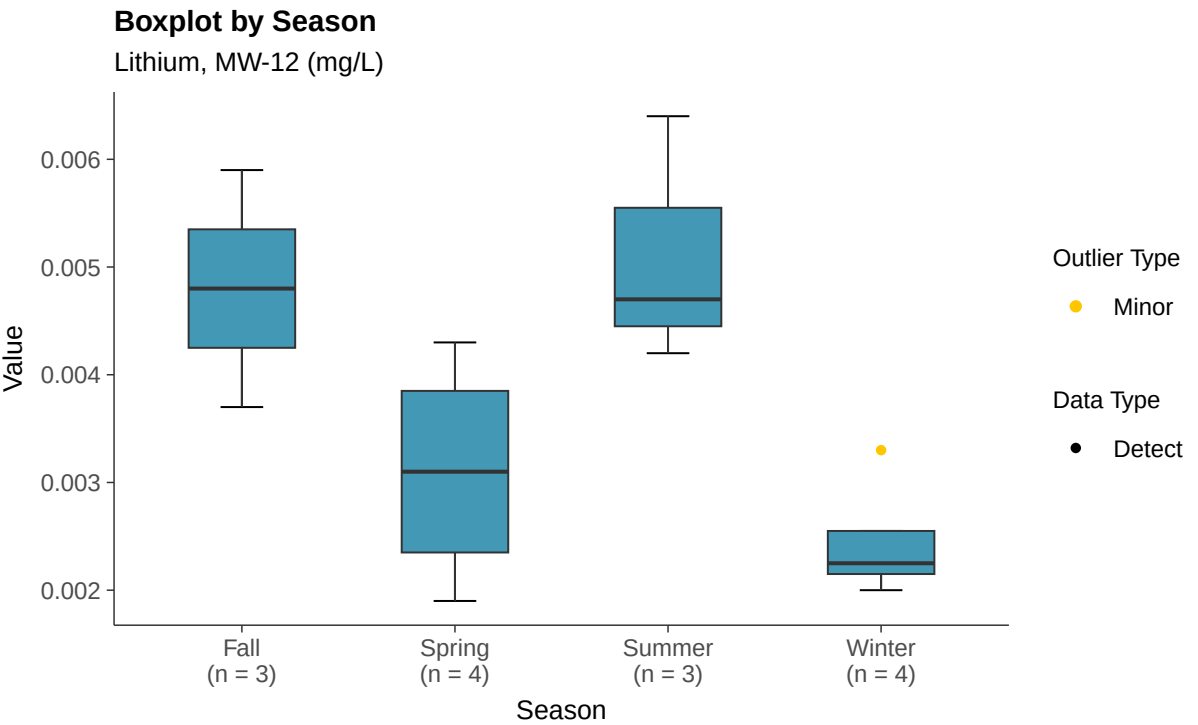
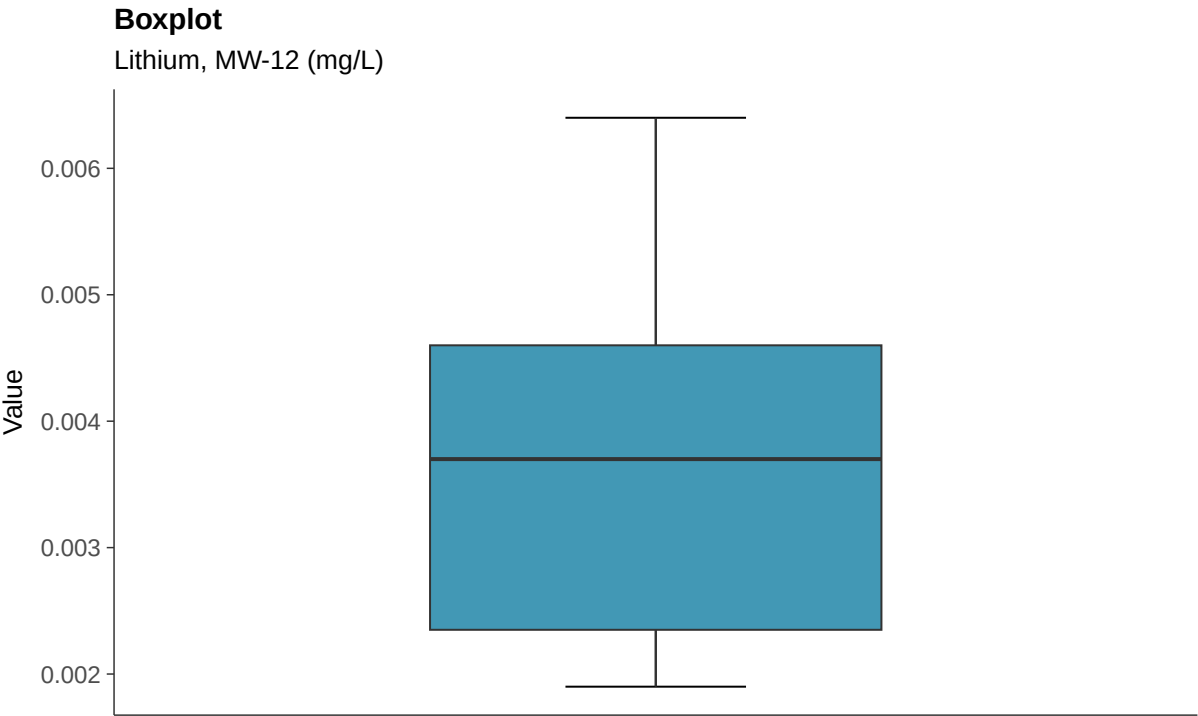


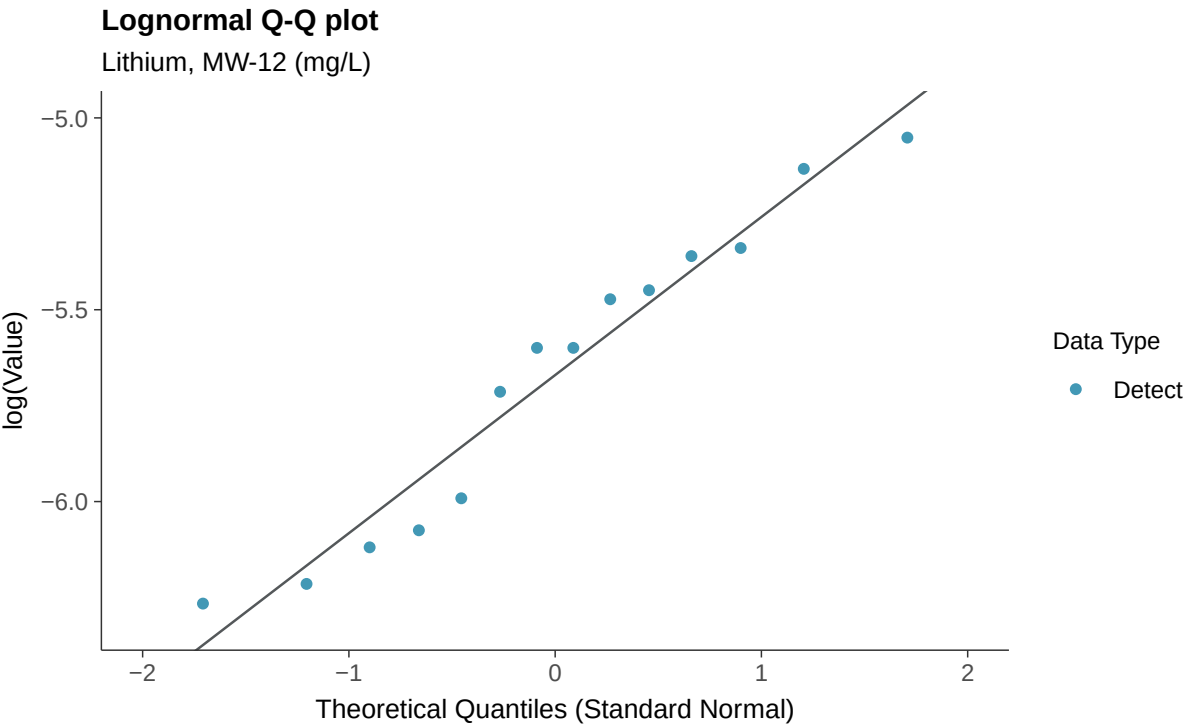
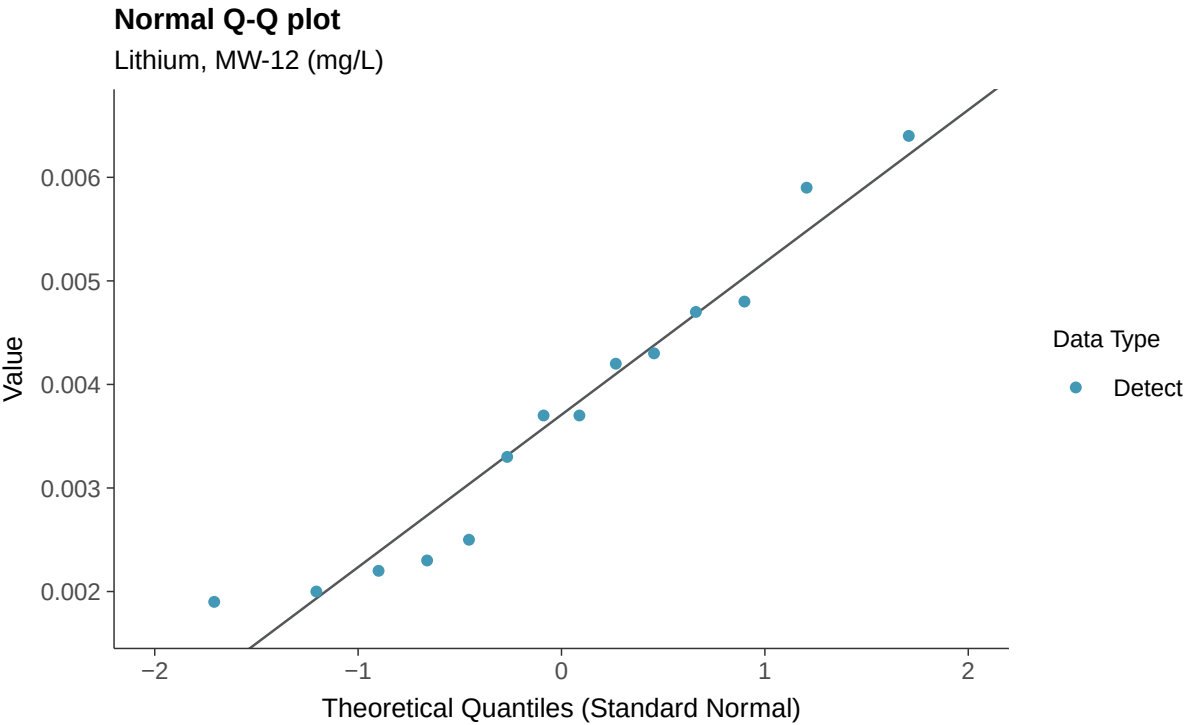


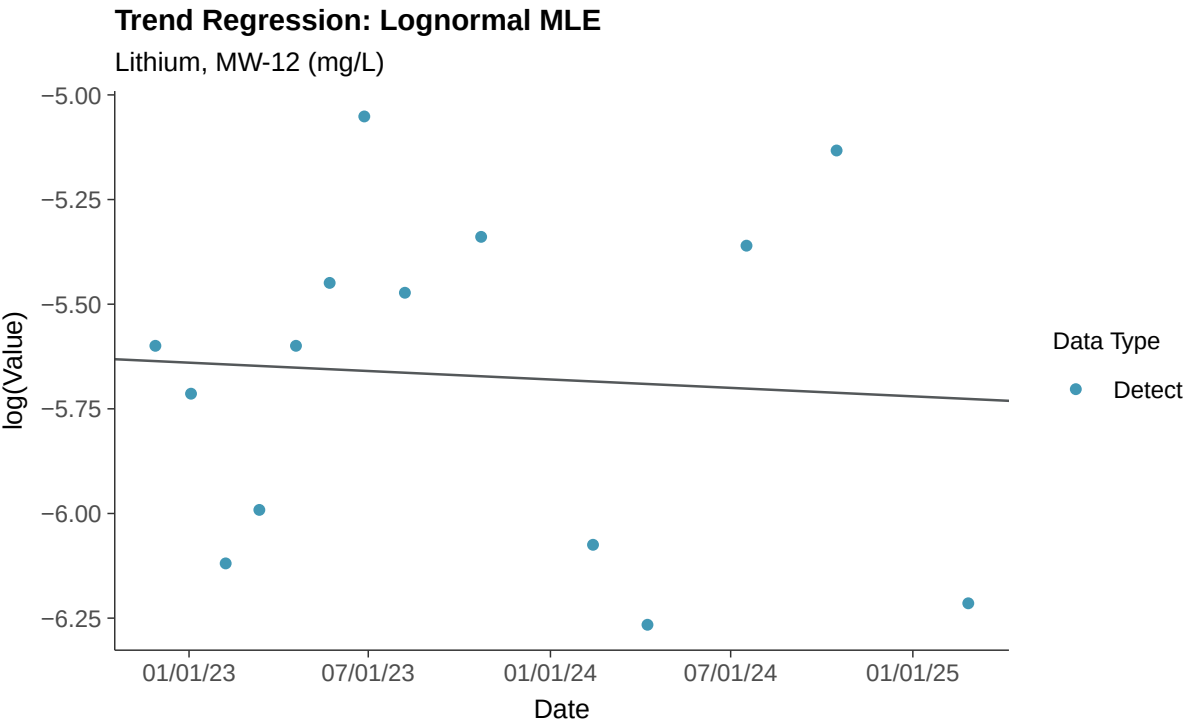
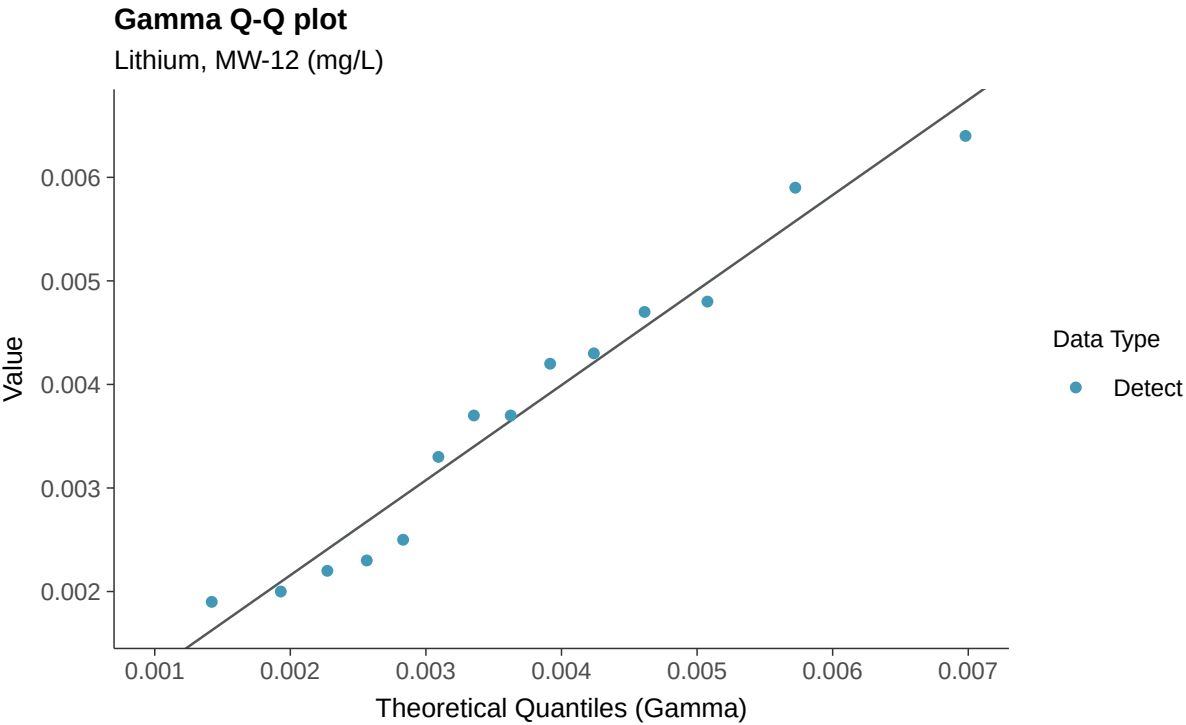
Appendix IV: Lithium, MW-12

ID: 22_2_4_116





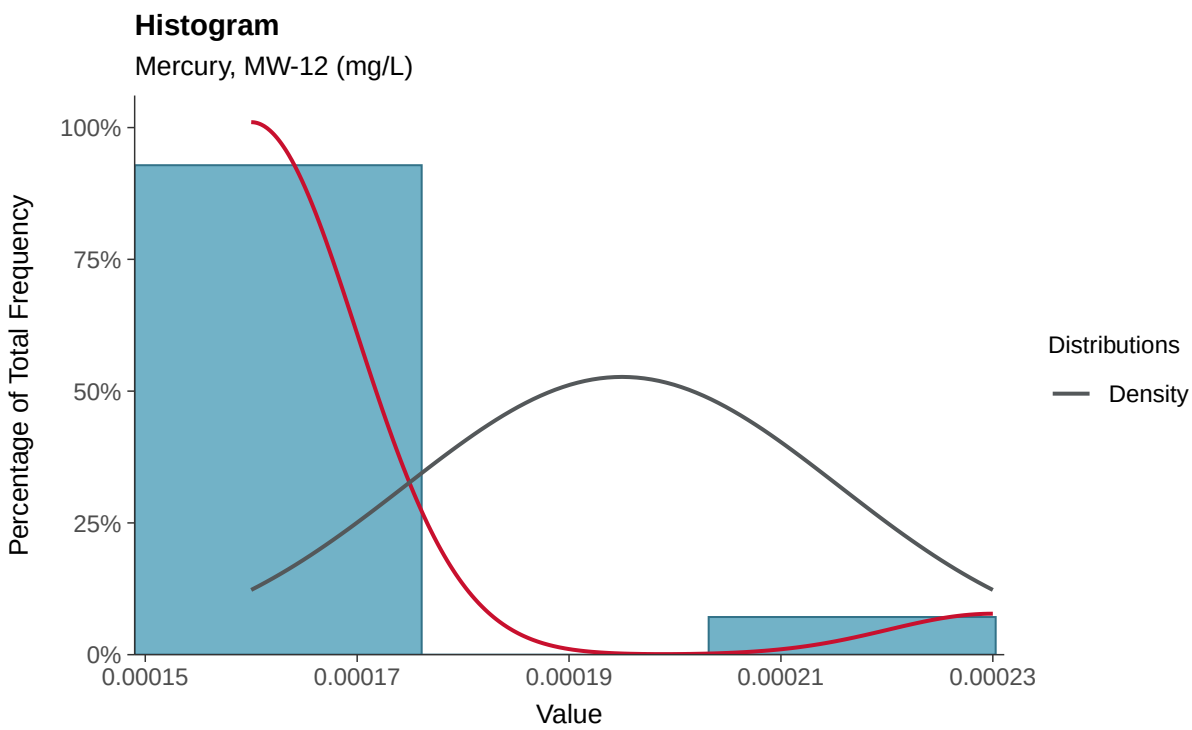
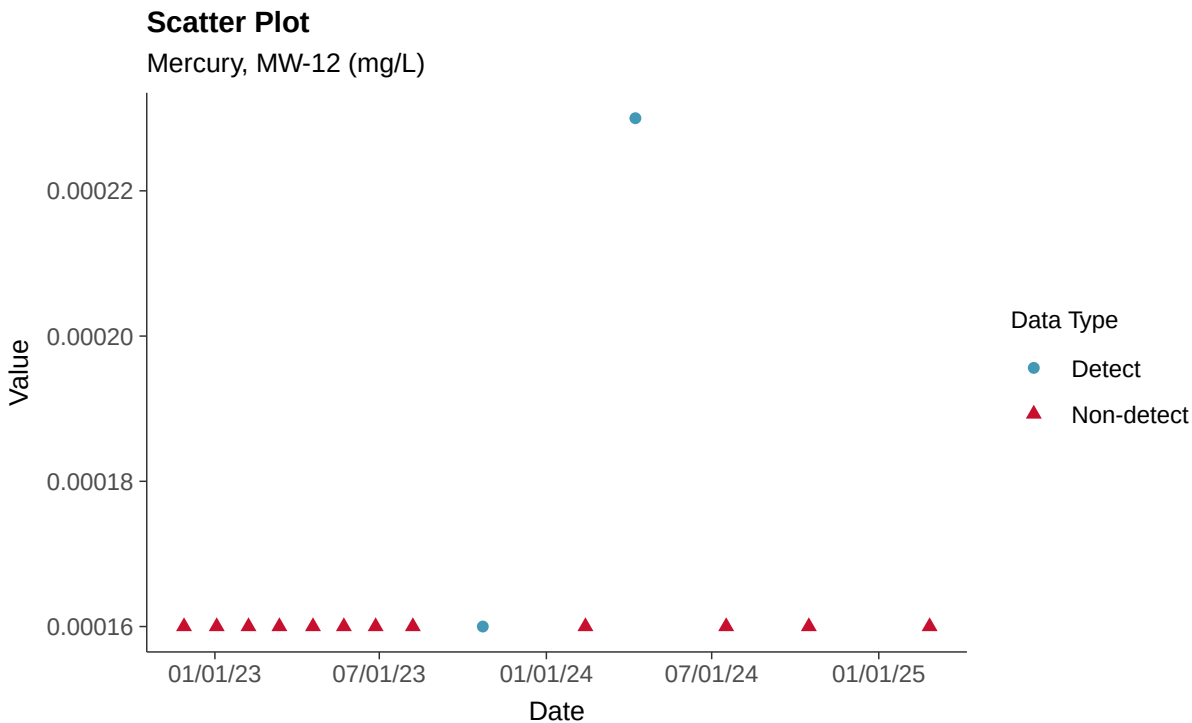


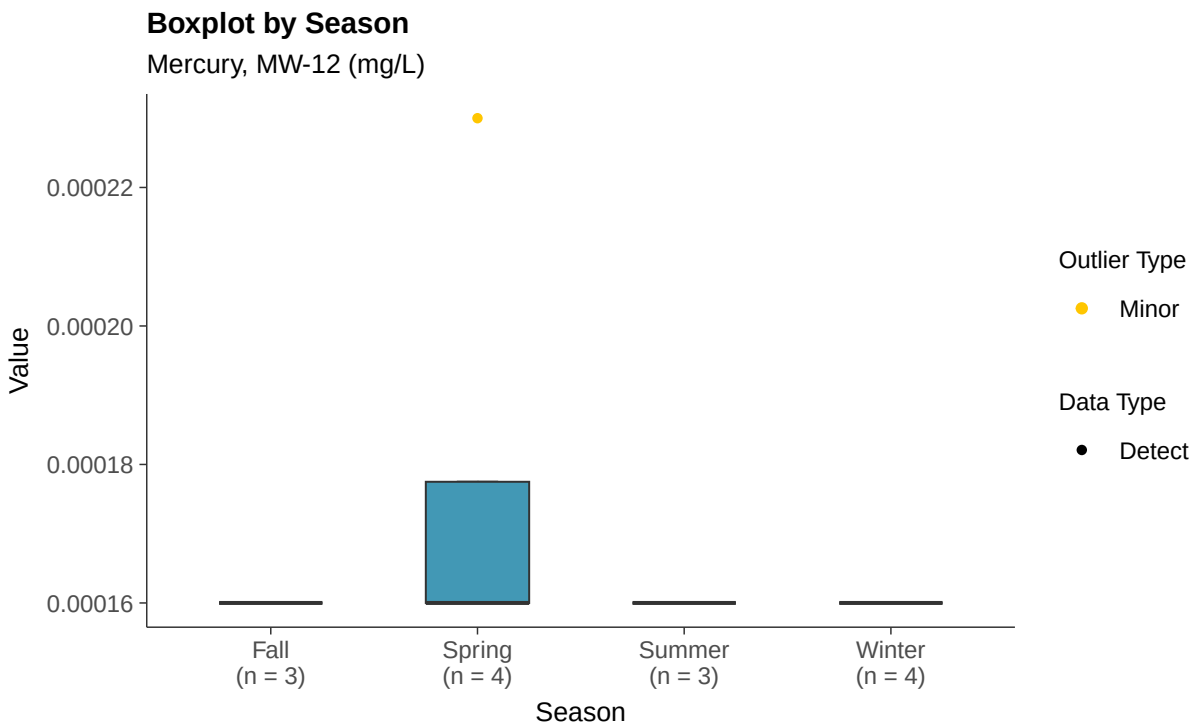
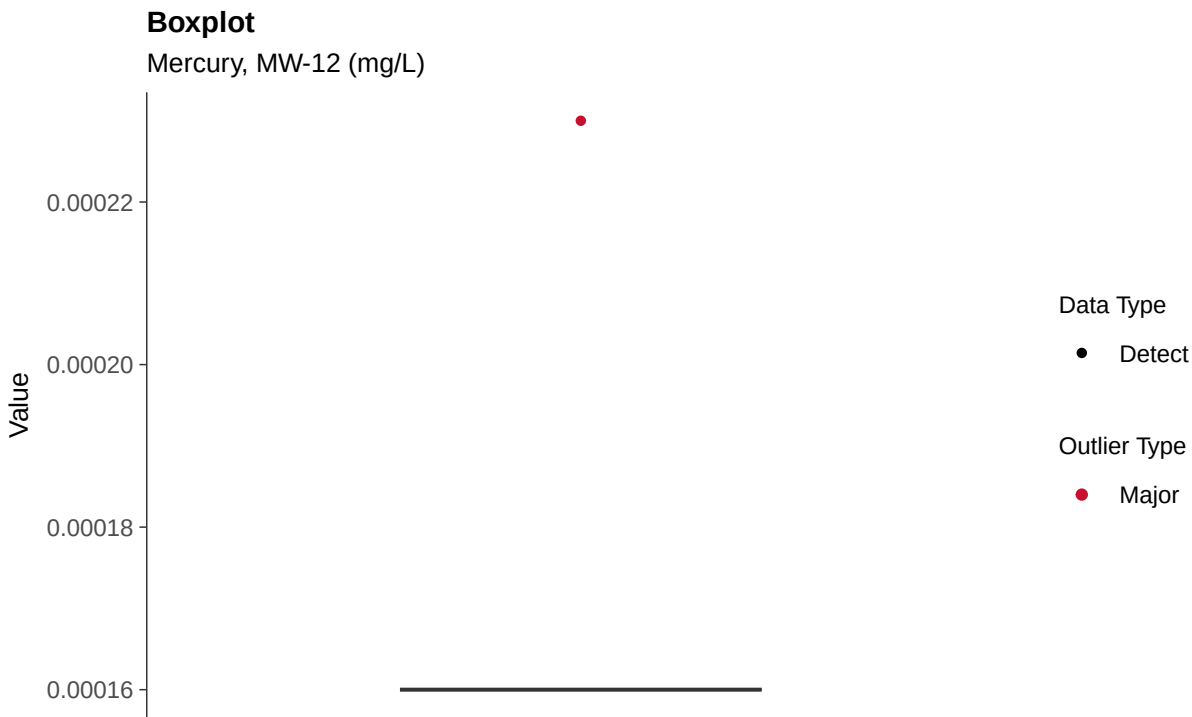




Appendix IV: Mercury, MW-12

ID: 22_2_4_117

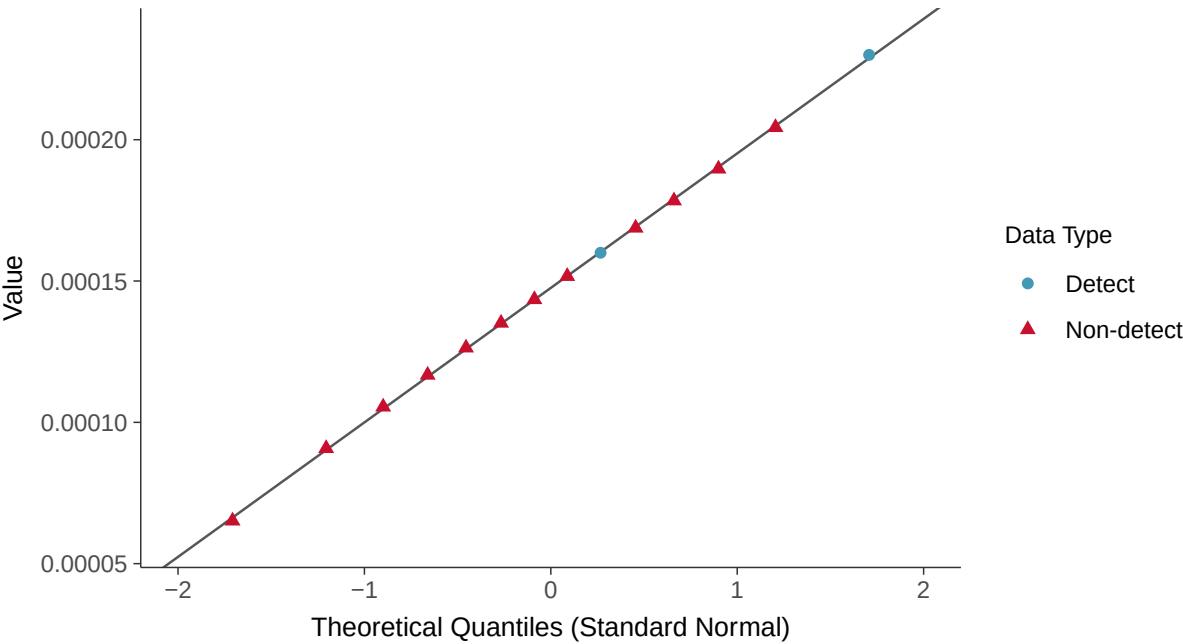






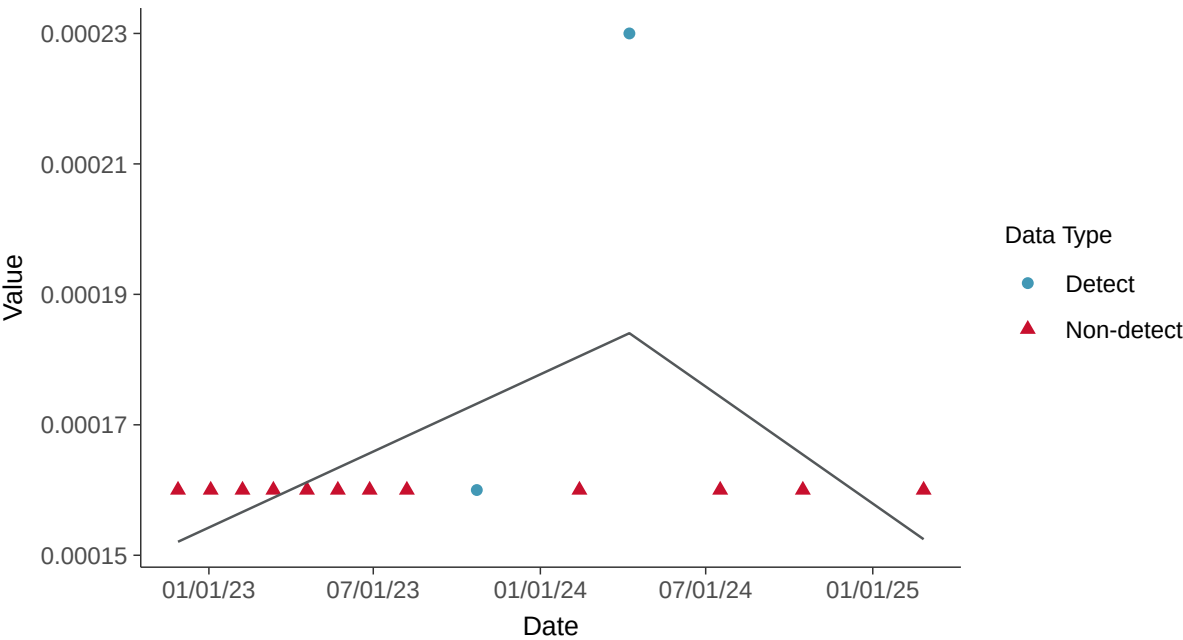
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-12 (mg/L)

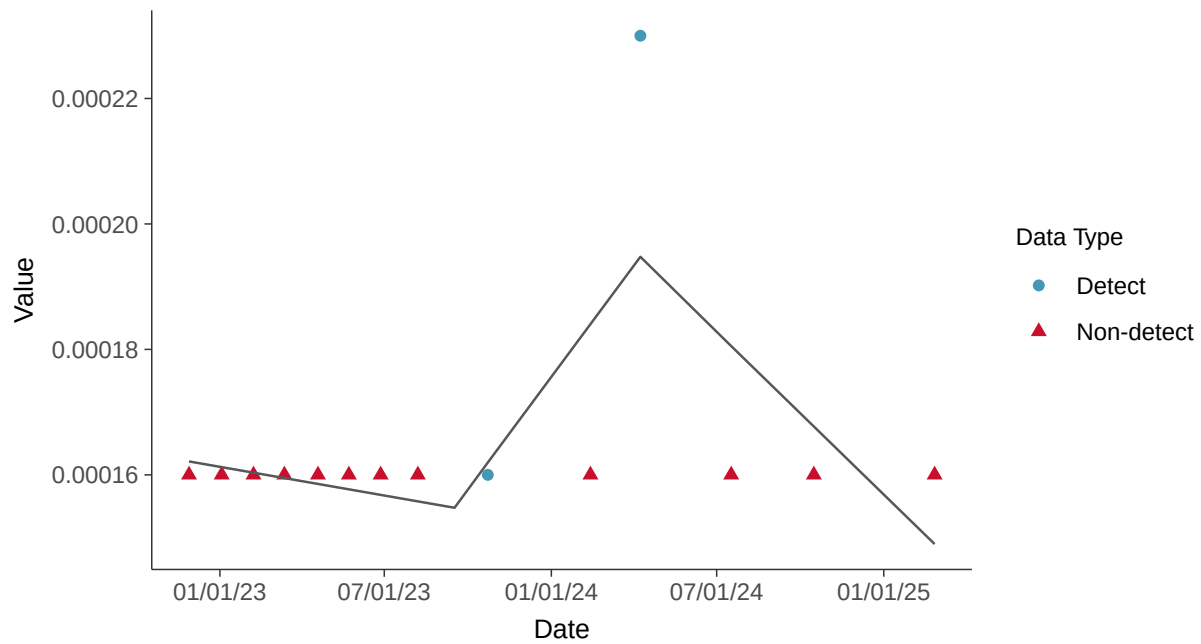


Trend Regression: Piecewise Linear-Linear

Mercury, MW-12 (mg/L)



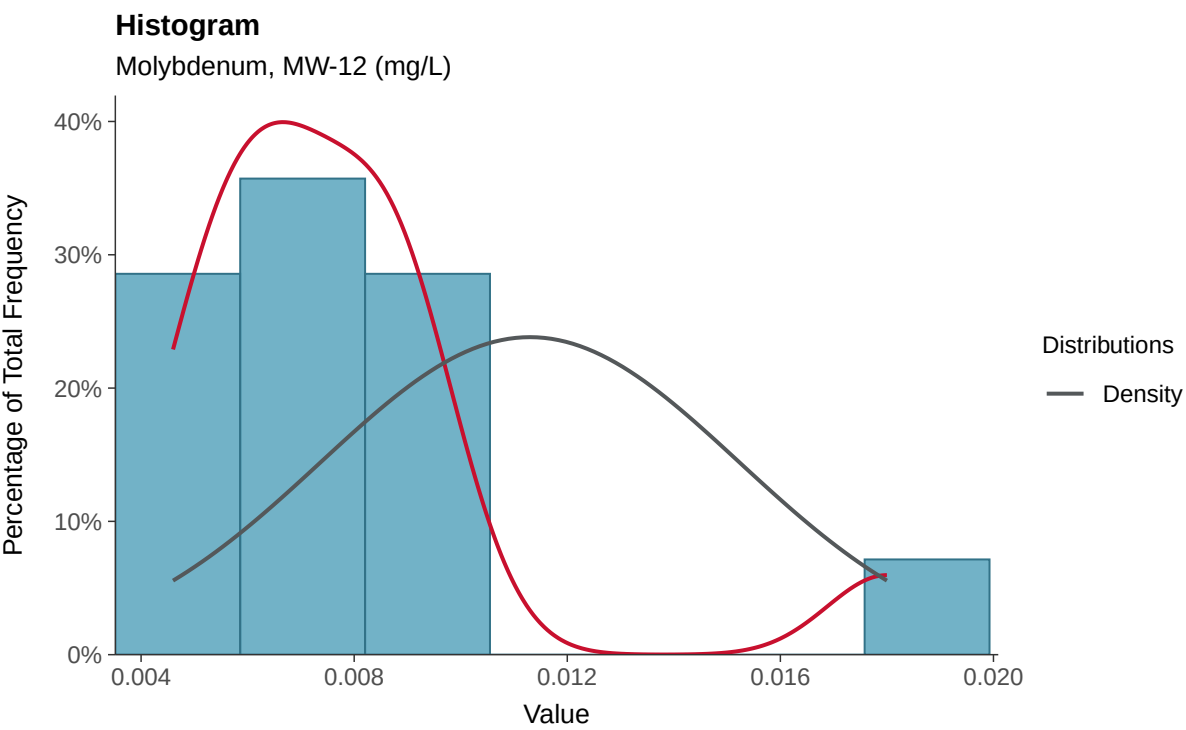
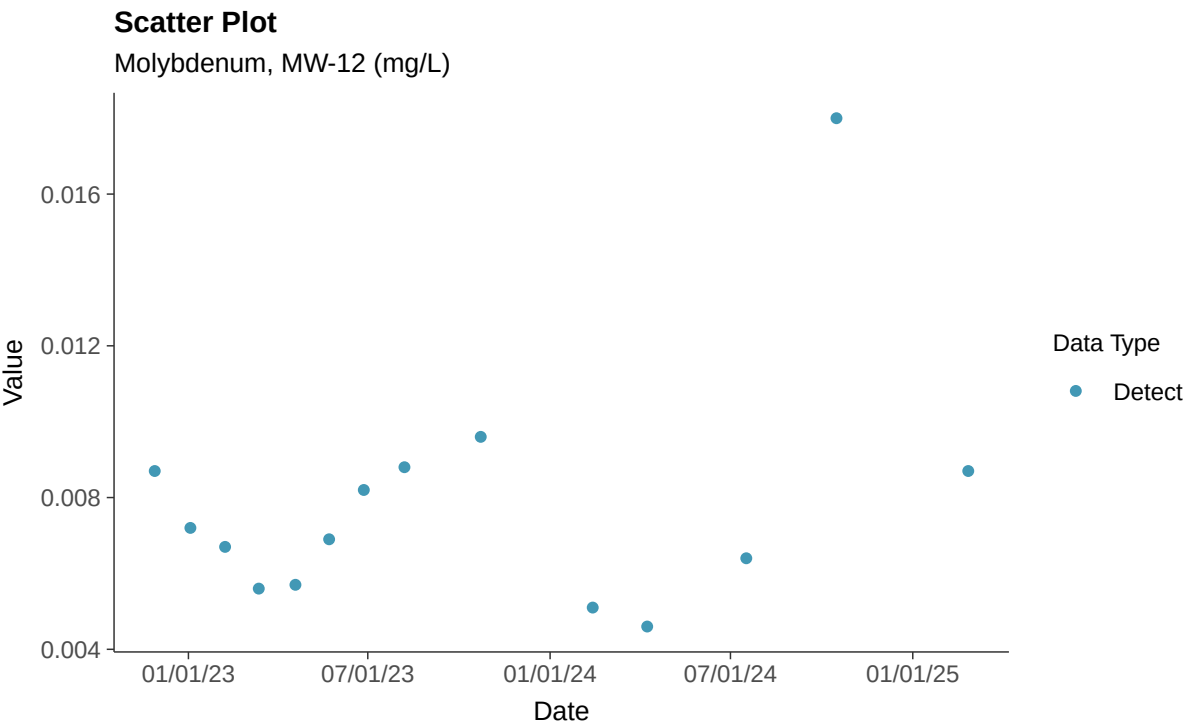
Mercury, MW-12 (mg/L)

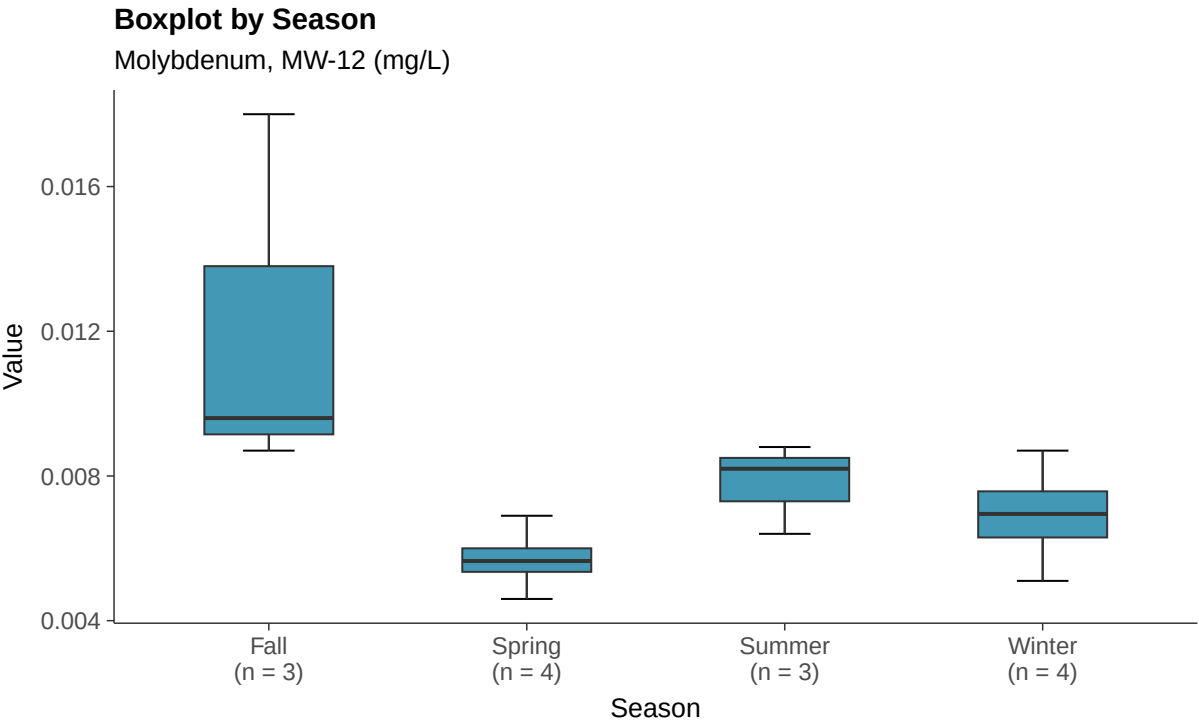
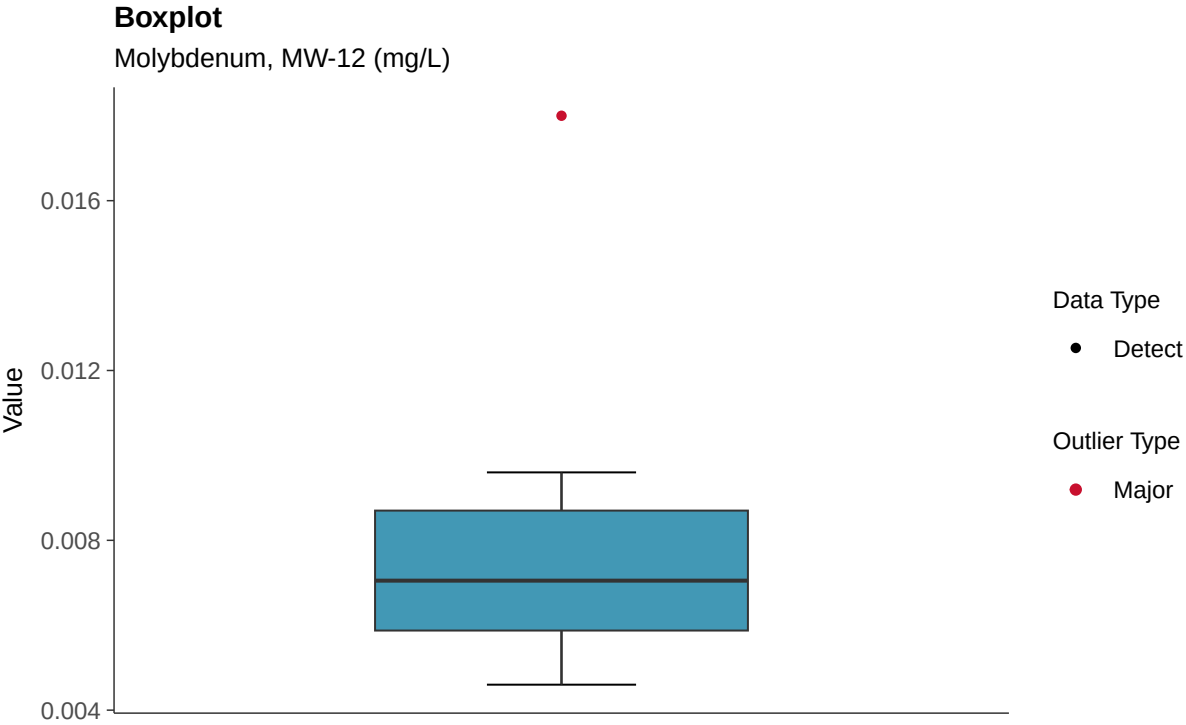


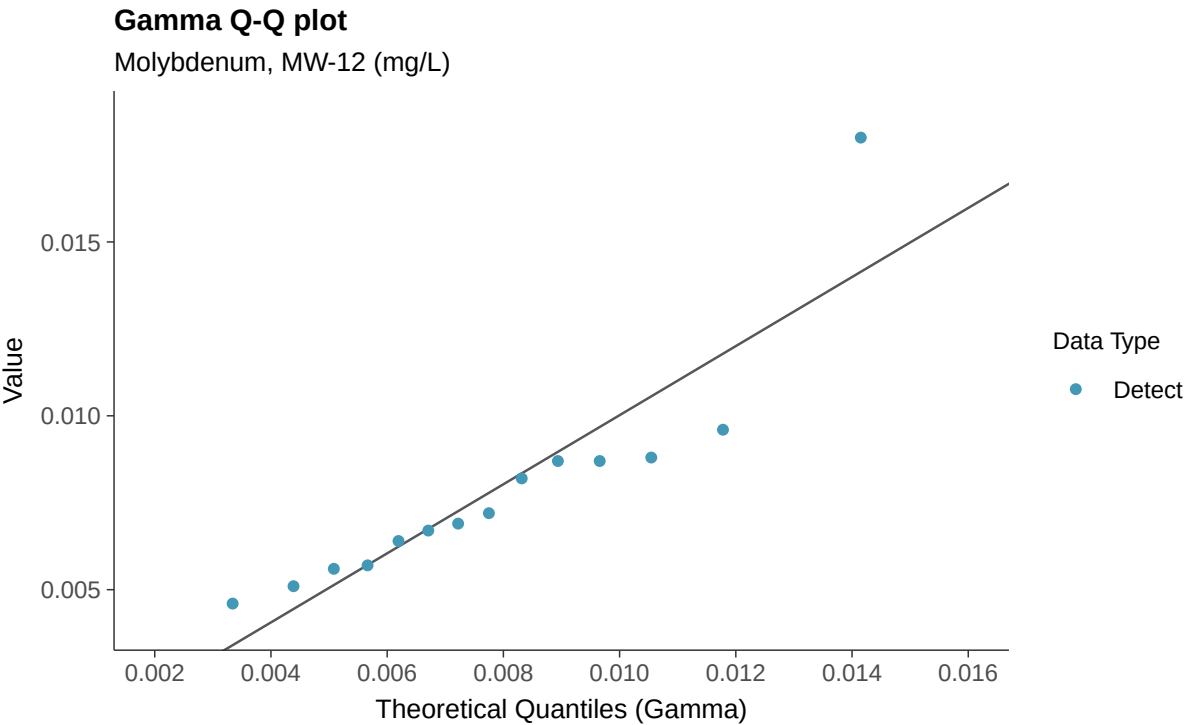
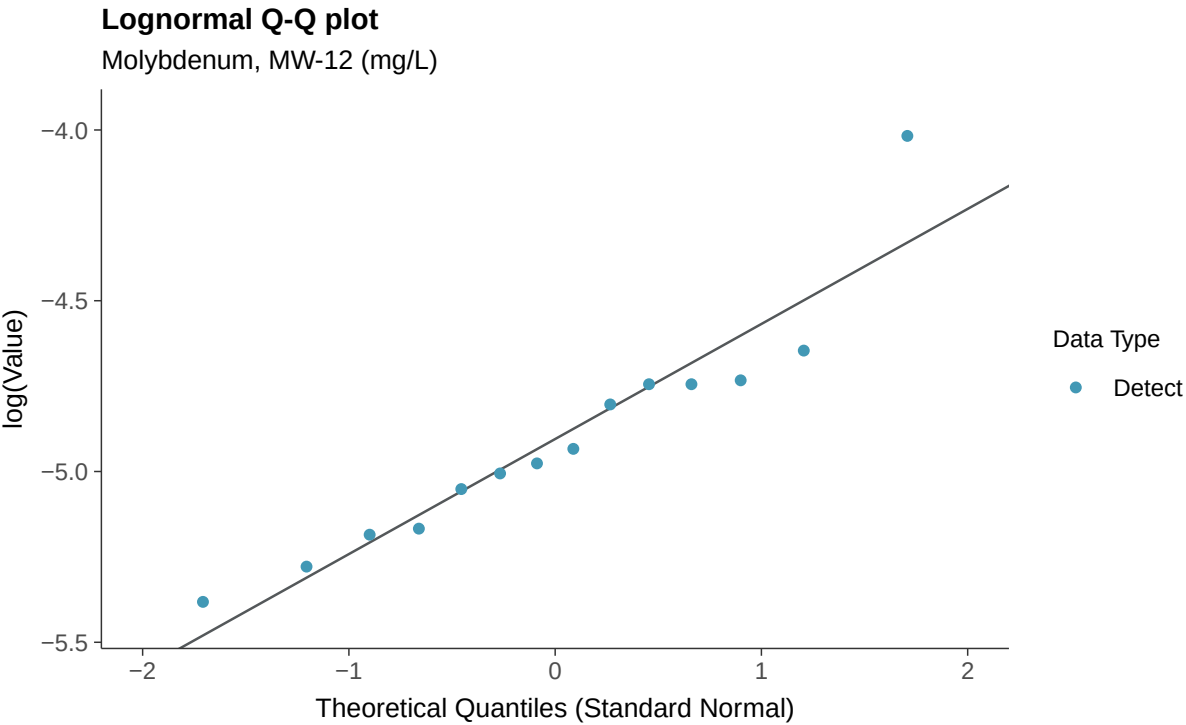


Appendix IV: Molybdenum, MW-12

ID: 22_2_4_118



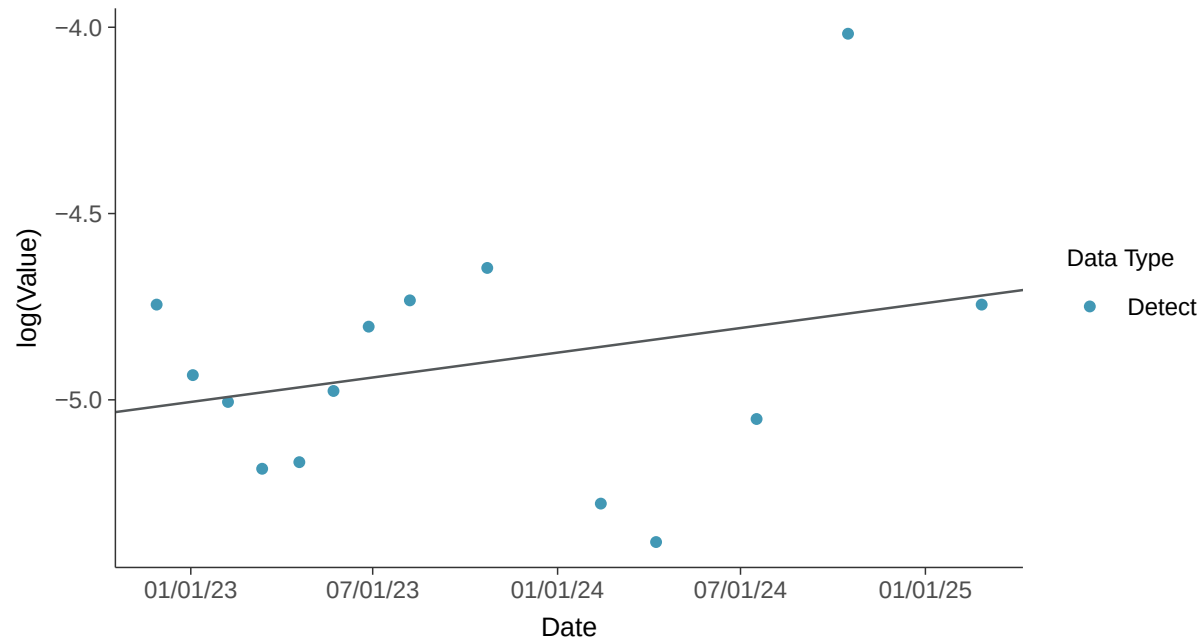






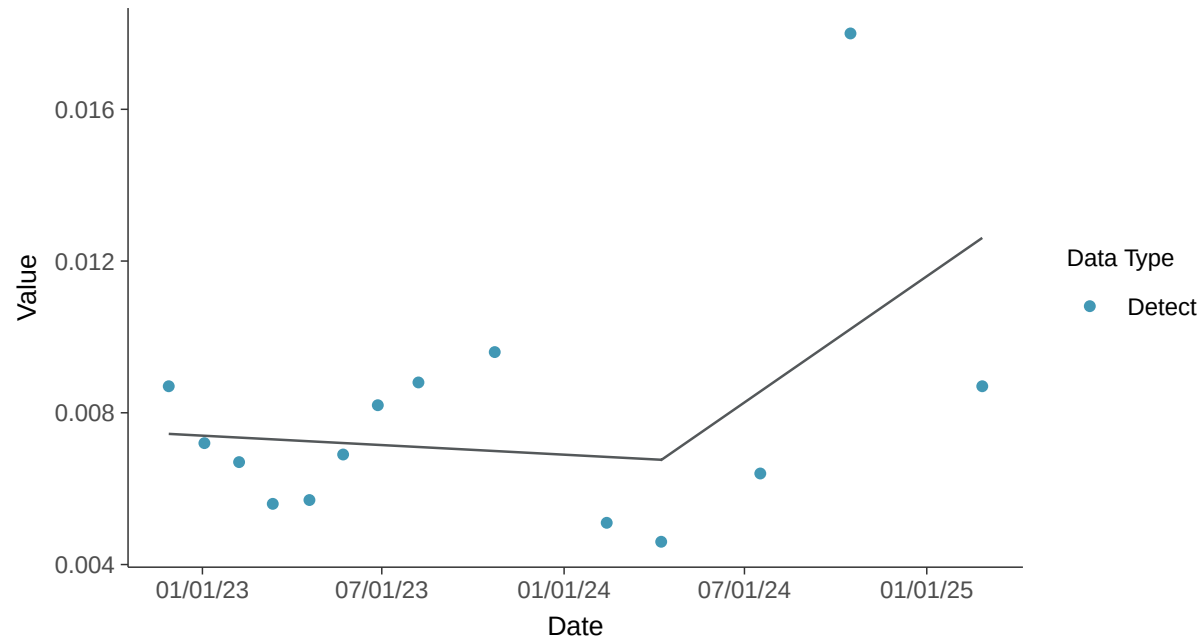
Trend Regression: Lognormal MLE

Molybdenum, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-12 (mg/L)



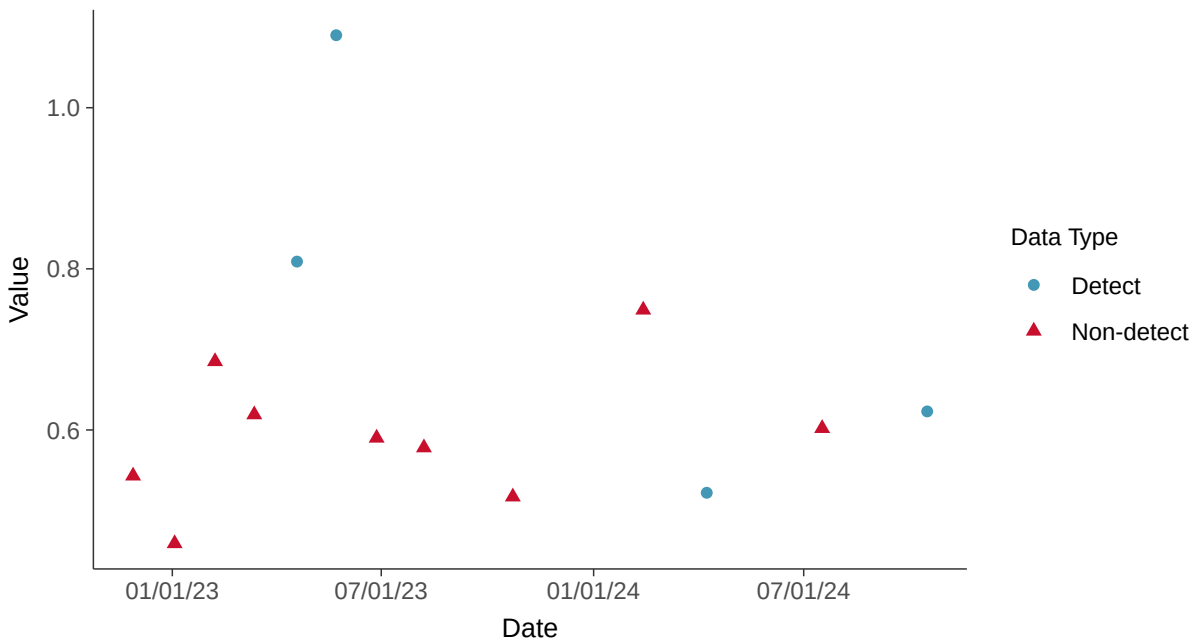


Appendix IV: Radium 226 and 228, MW-12

ID: 22_2_4_121

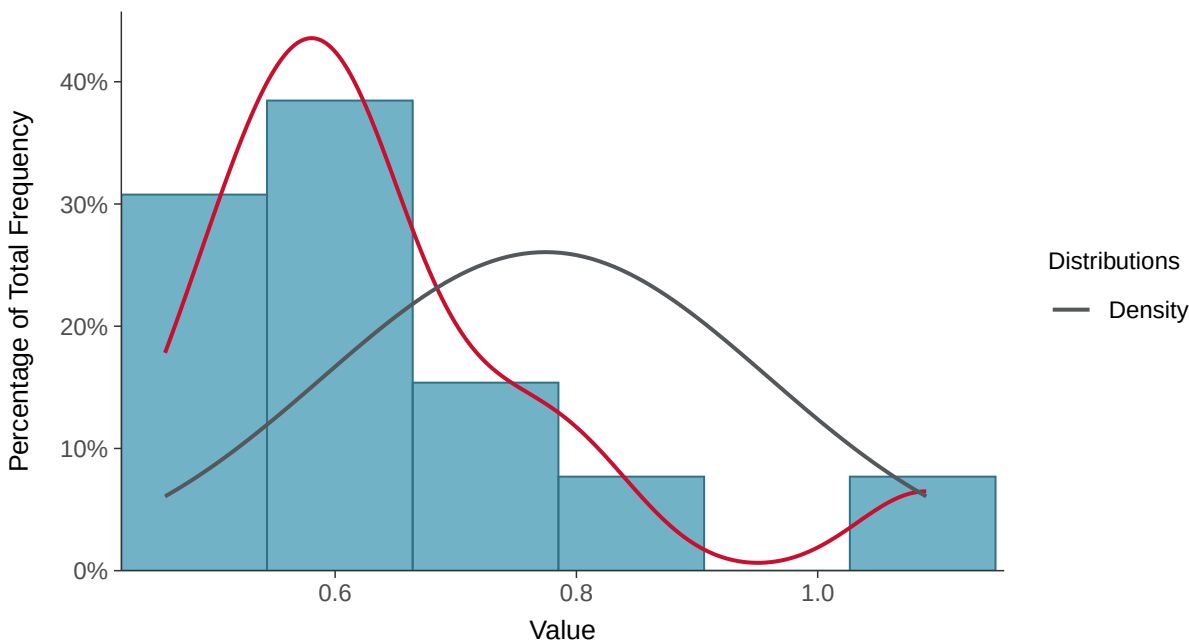
Scatter Plot

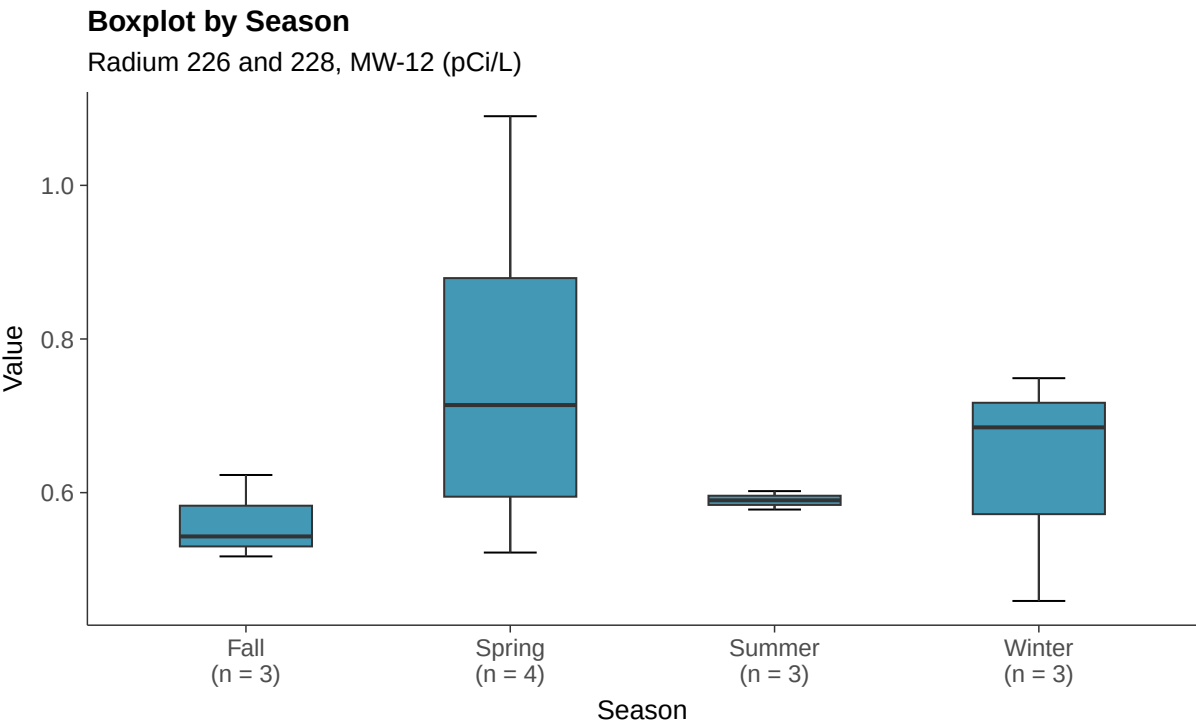
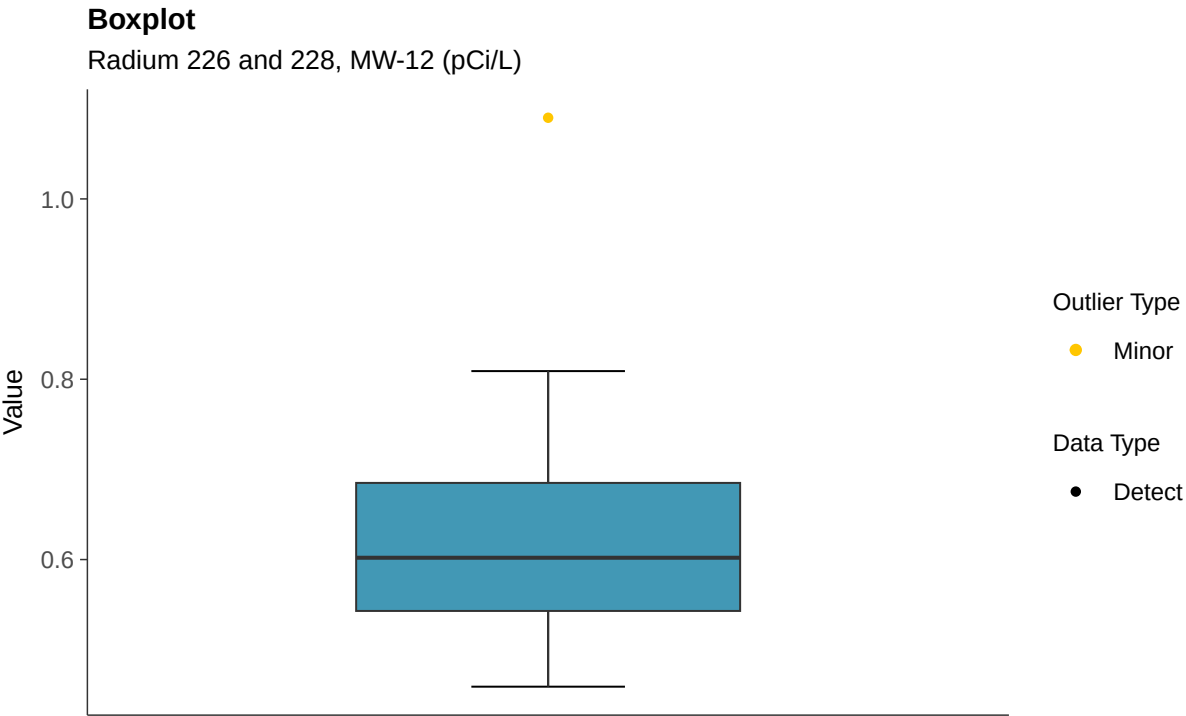
Radium 226 and 228, MW-12 (pCi/L)



Histogram

Radium 226 and 228, MW-12 (pCi/L)

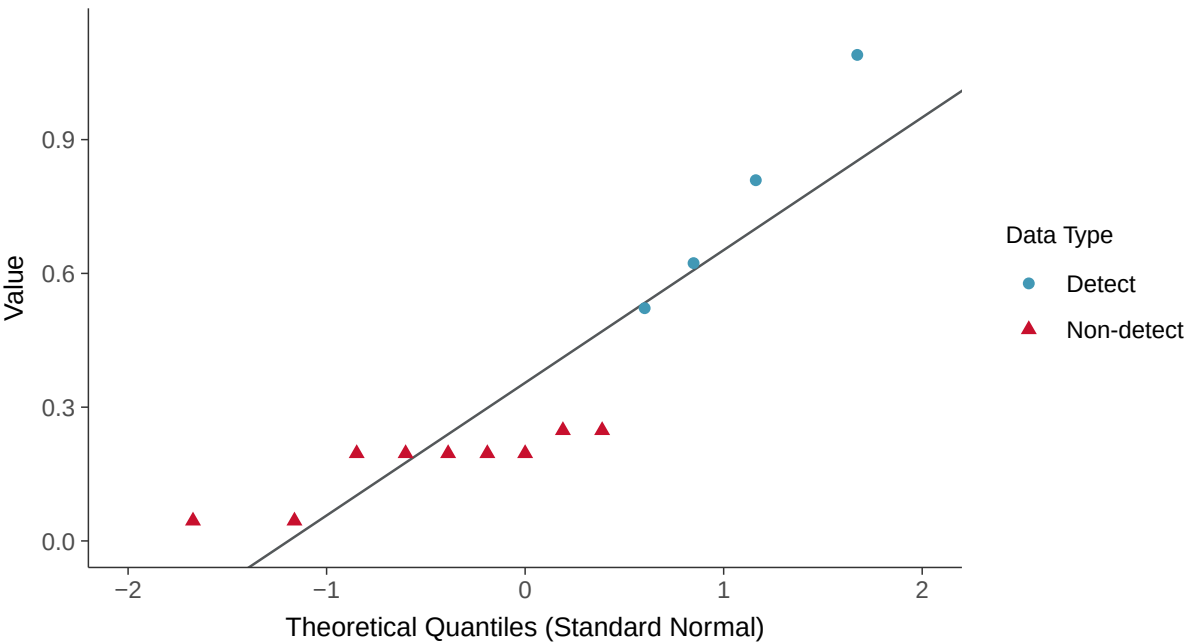






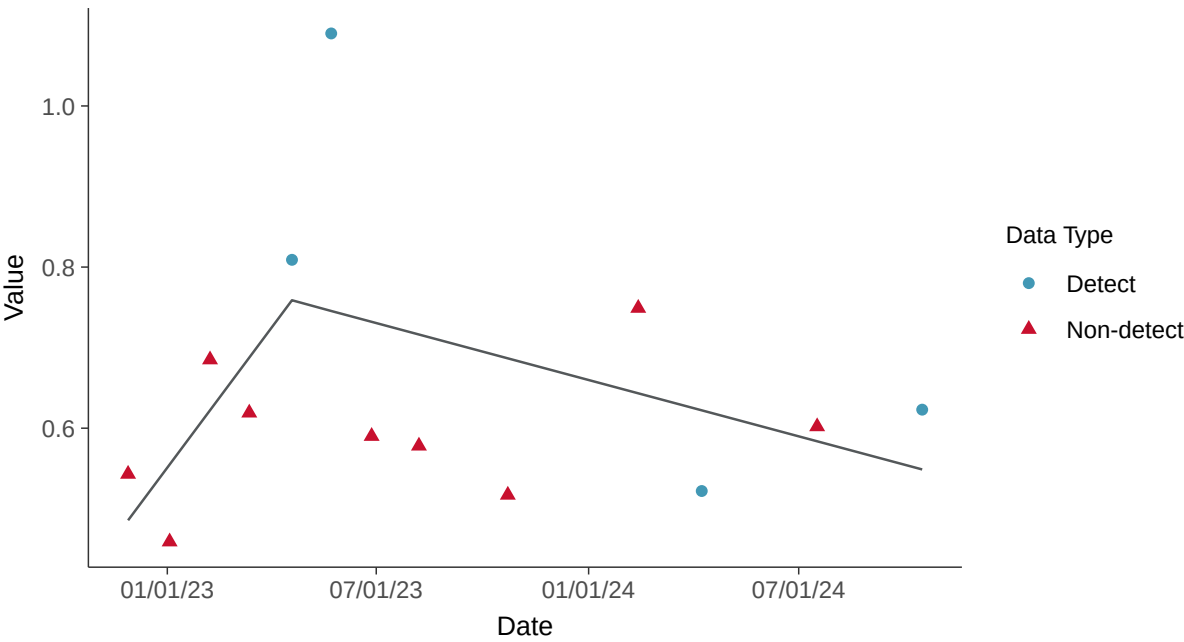
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



Trend Regression: Piecewise Linear-Linear

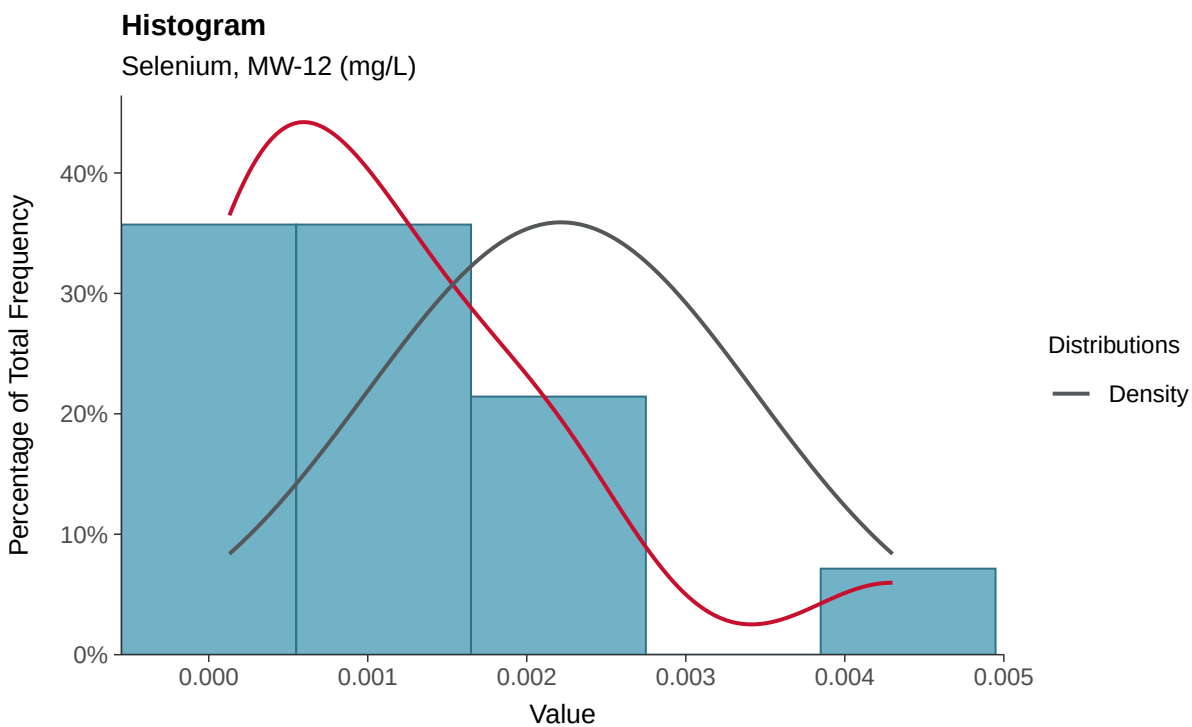
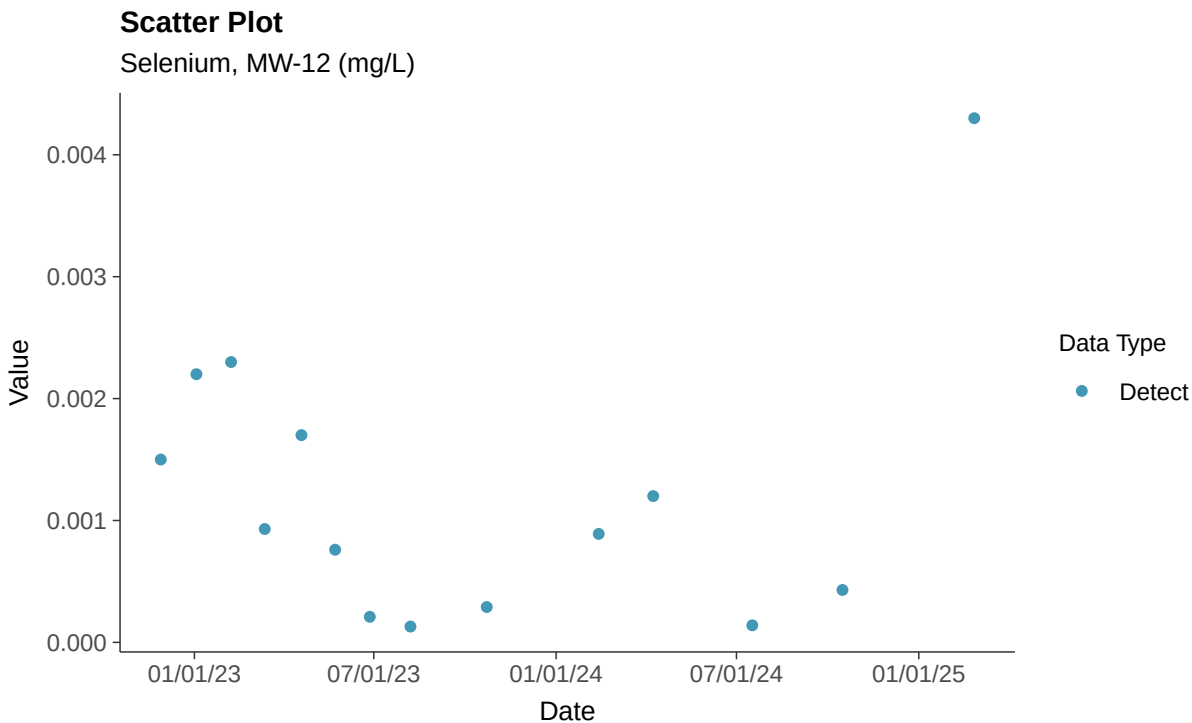
Radium 226 and 228, MW-12 (pCi/L)

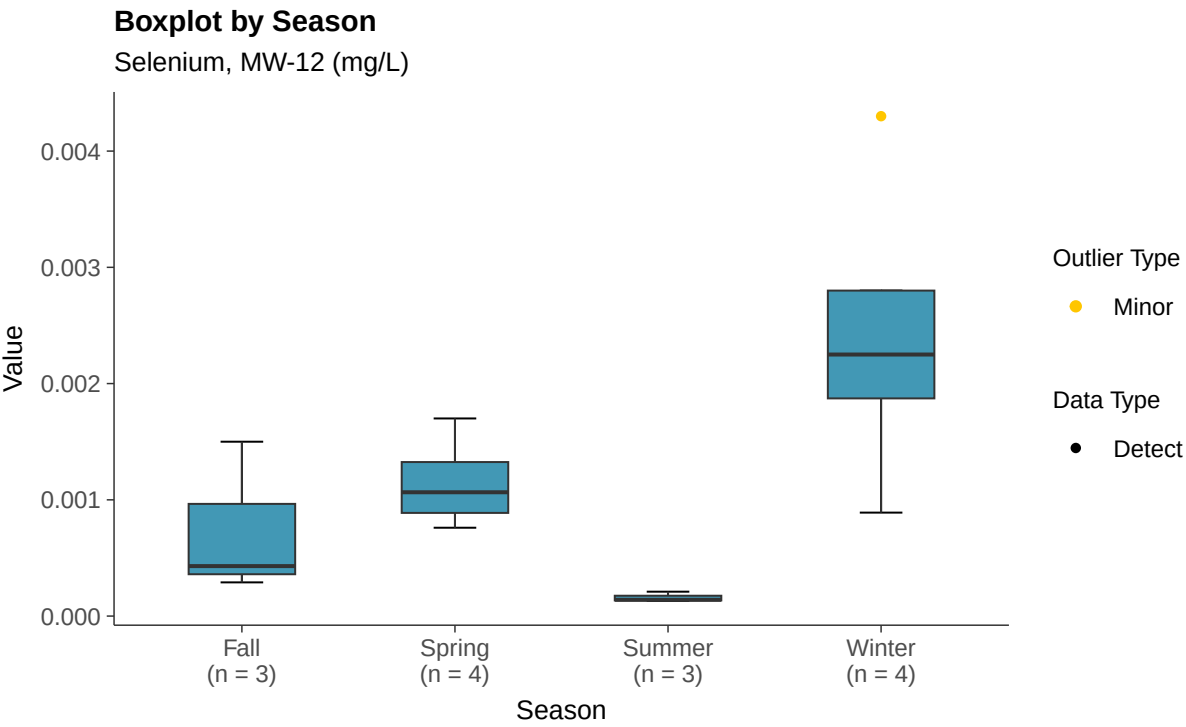
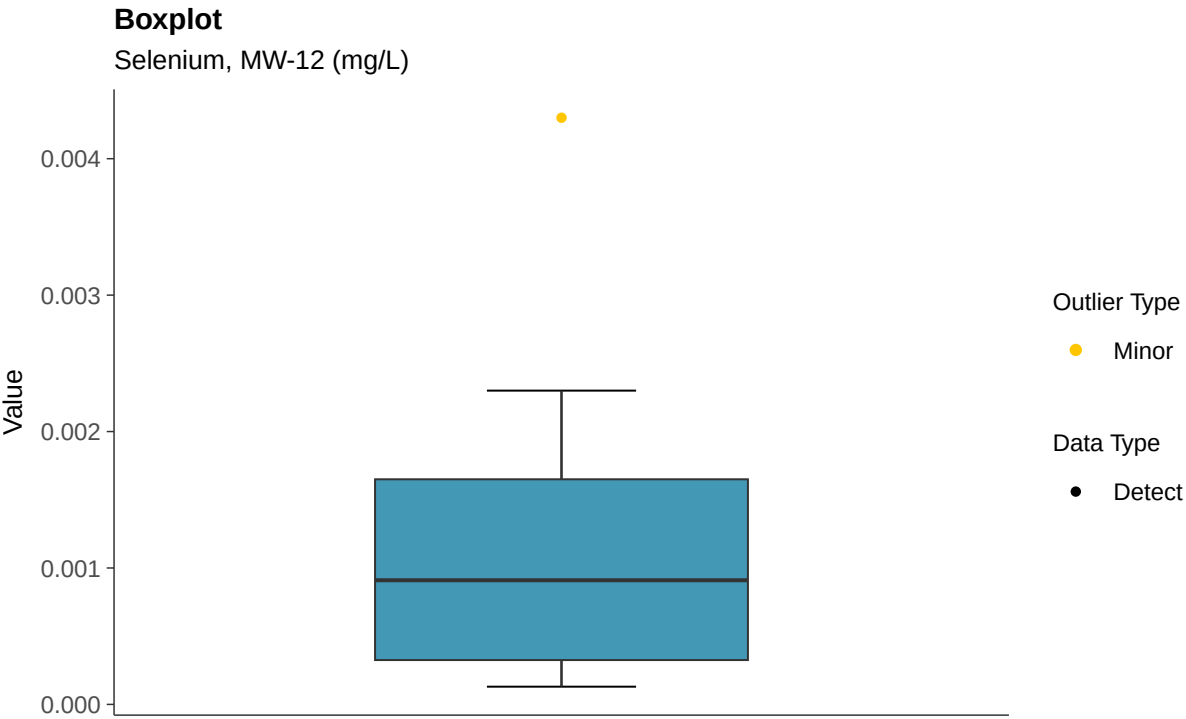


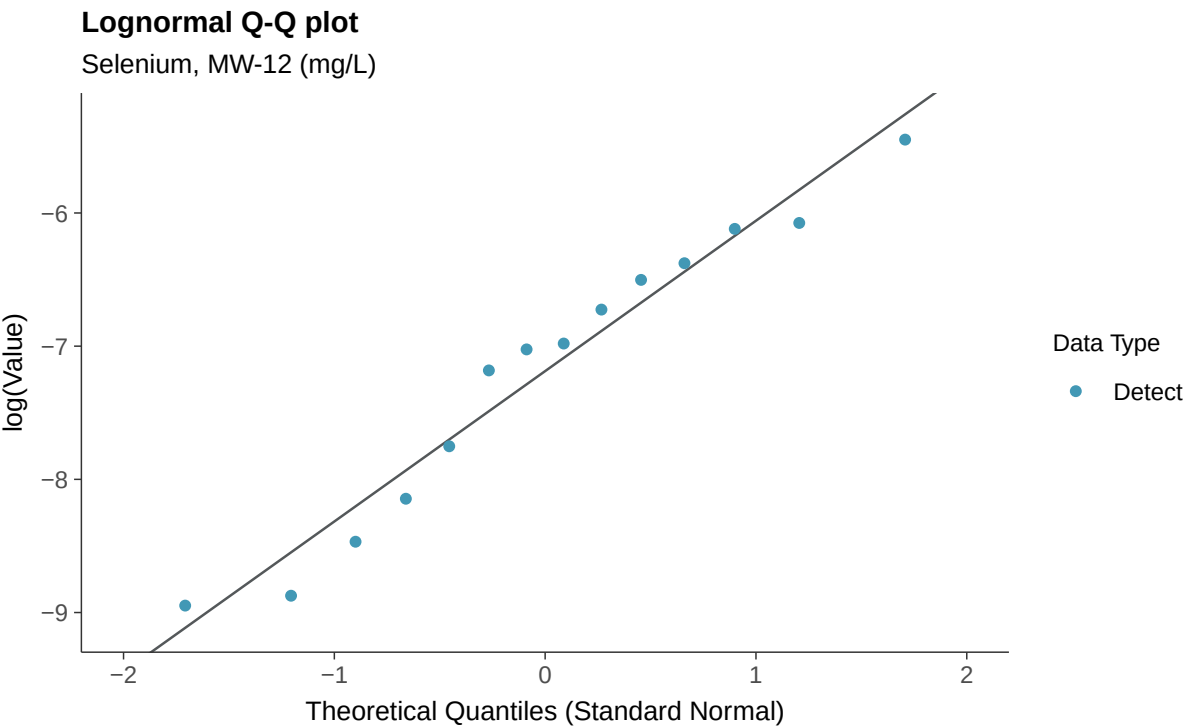
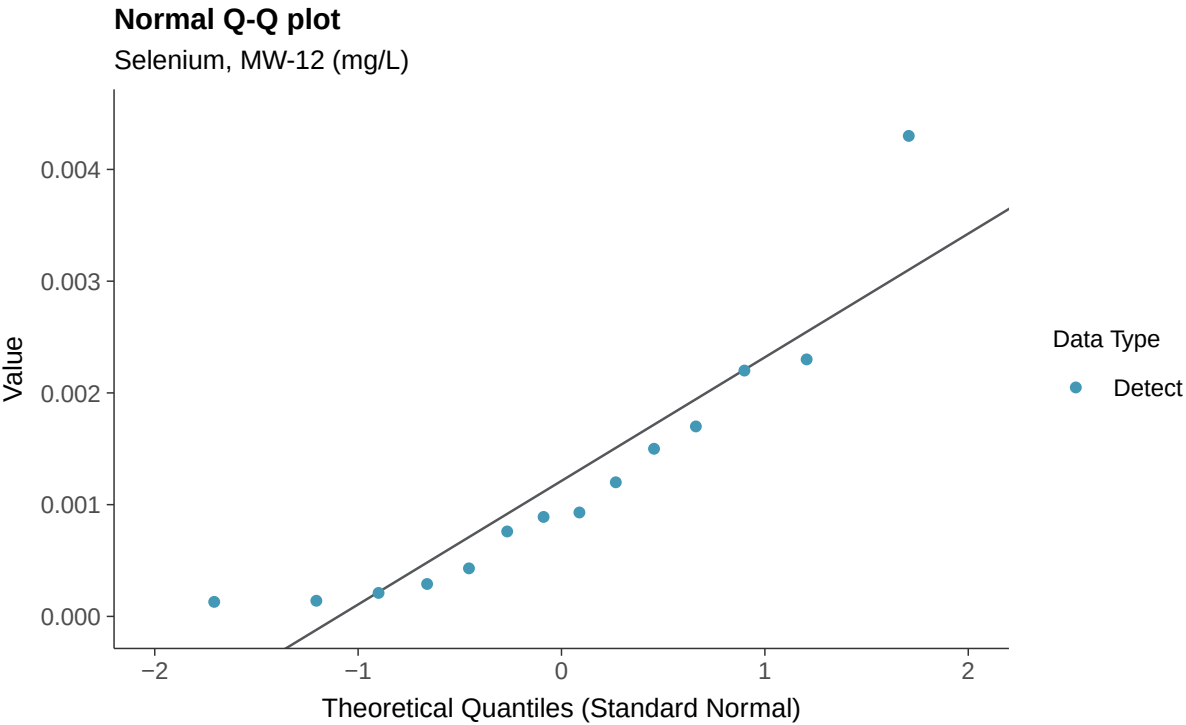


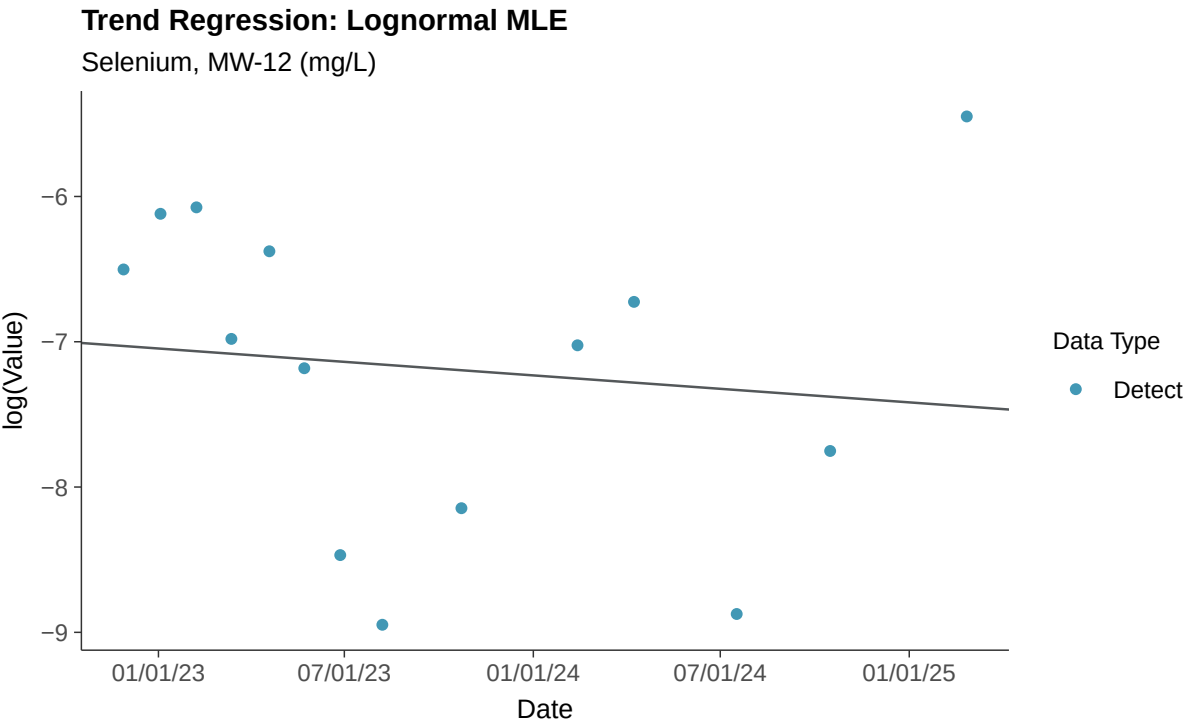
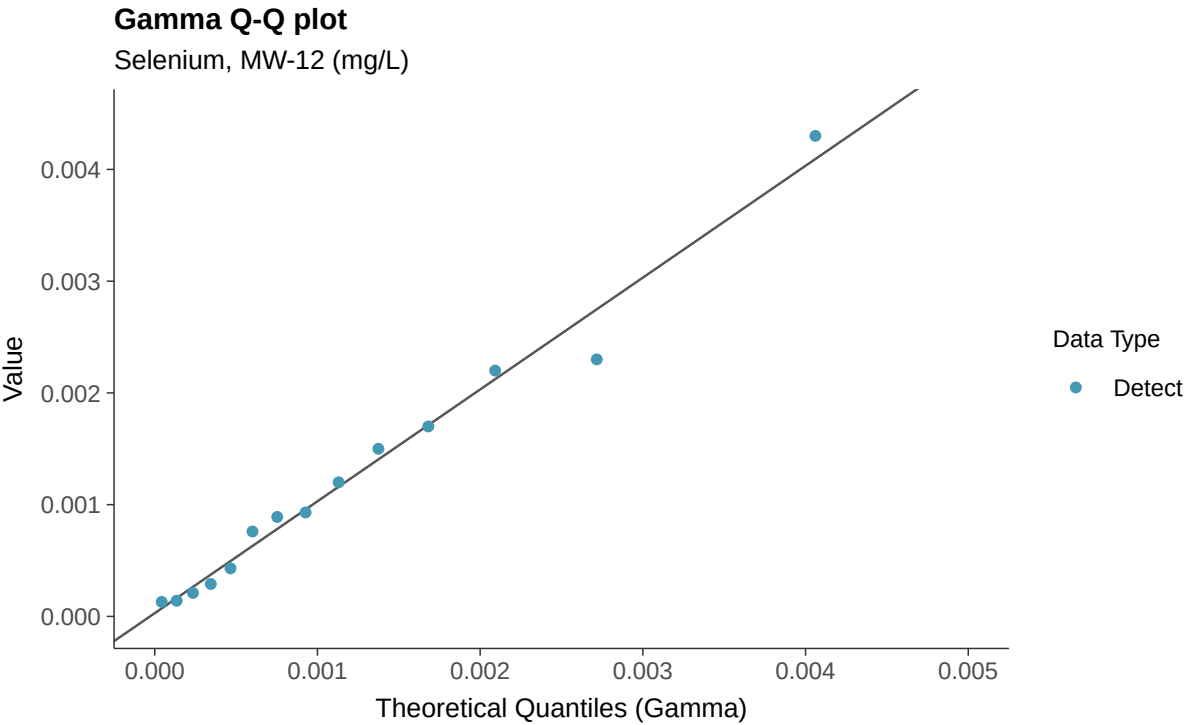
Appendix IV: Selenium, MW-12

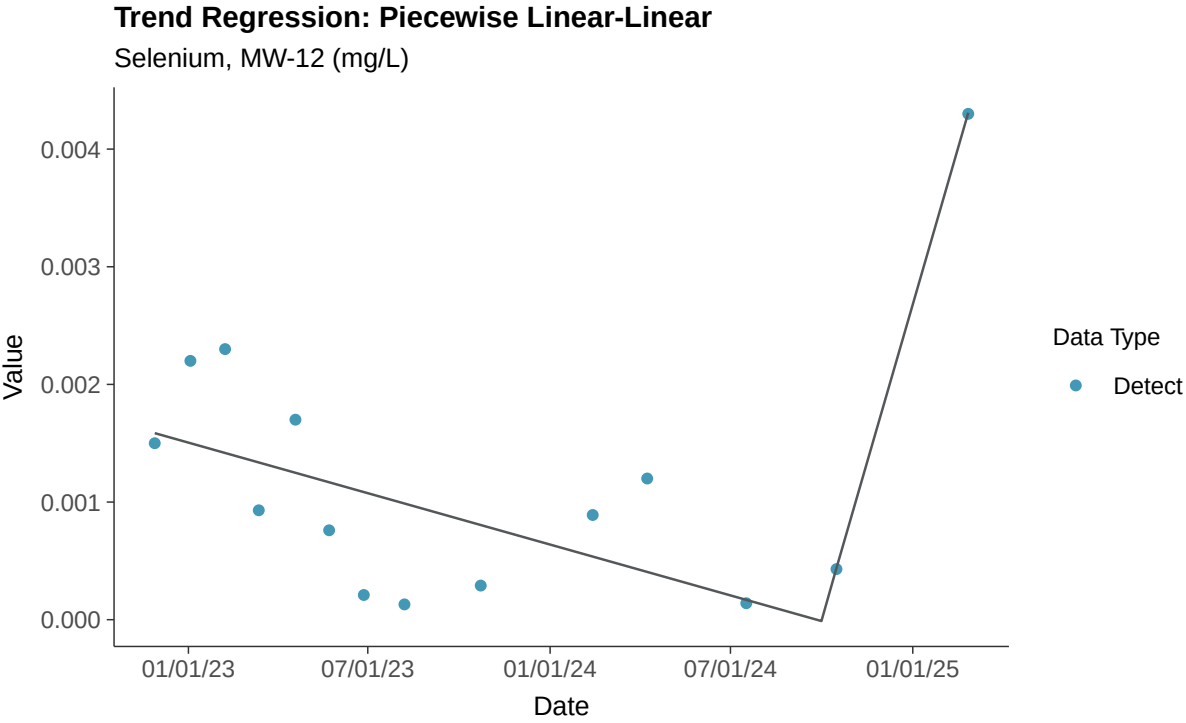
ID: 22_2_4_122







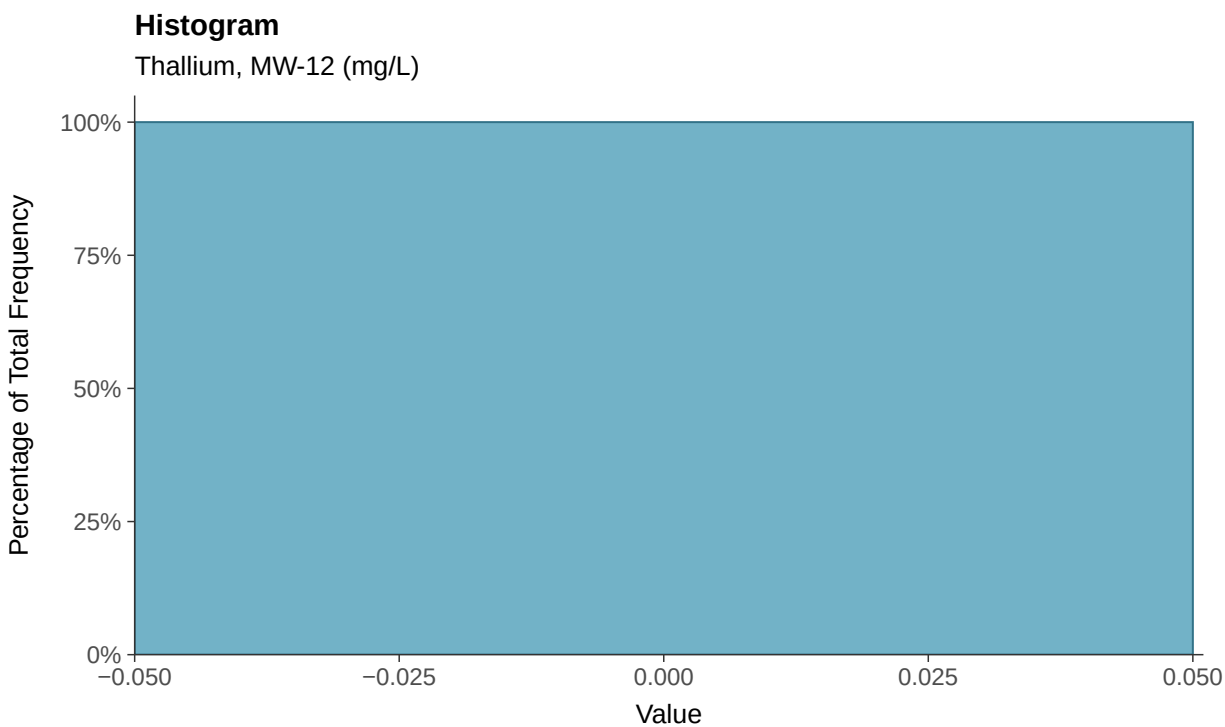
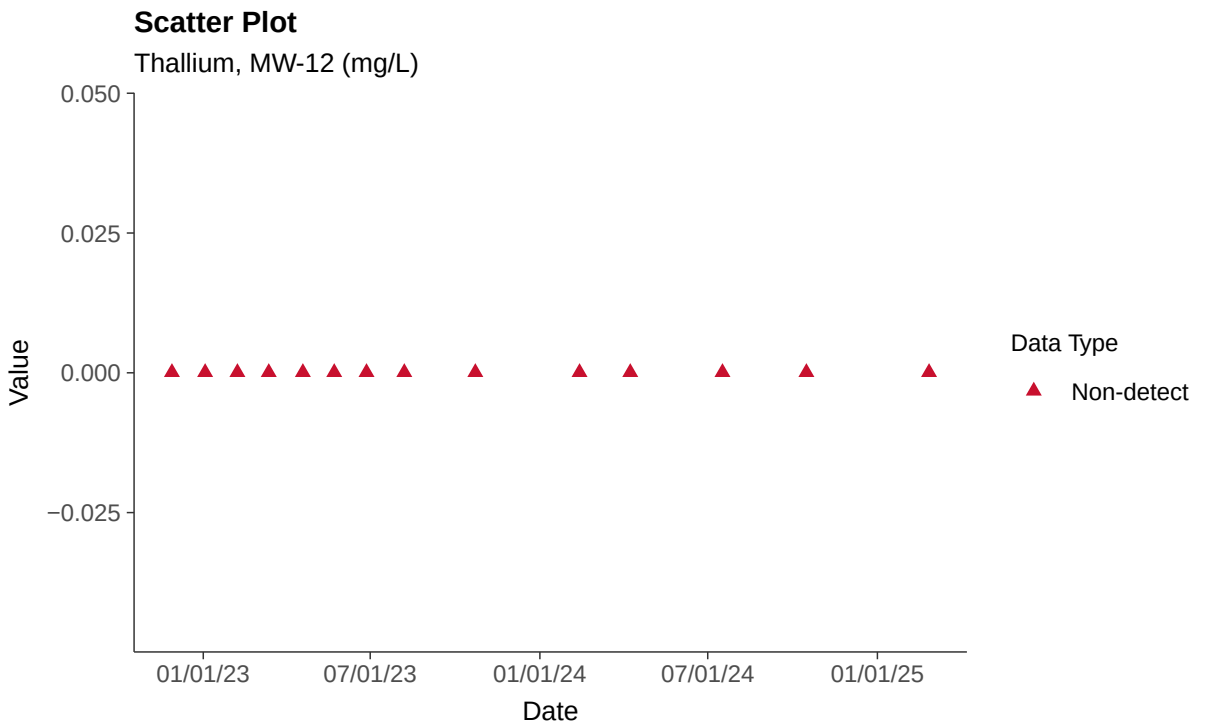


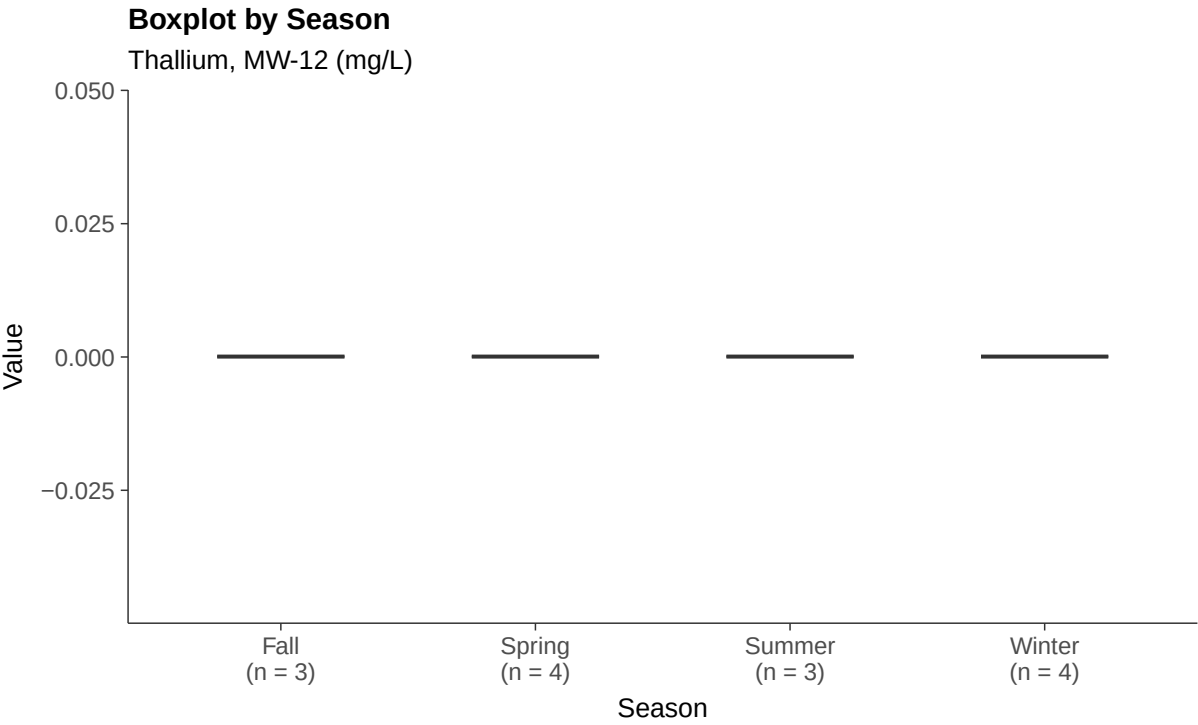
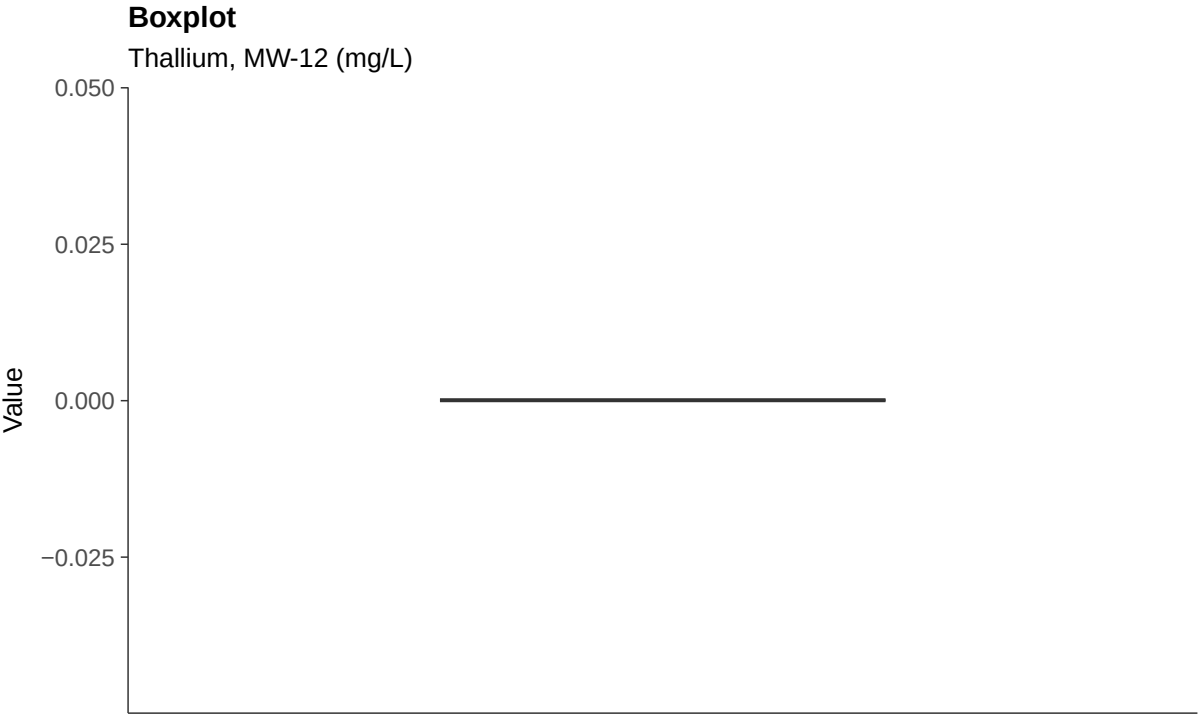




Appendix IV: Thallium, MW-12

ID: 22_2_4_125

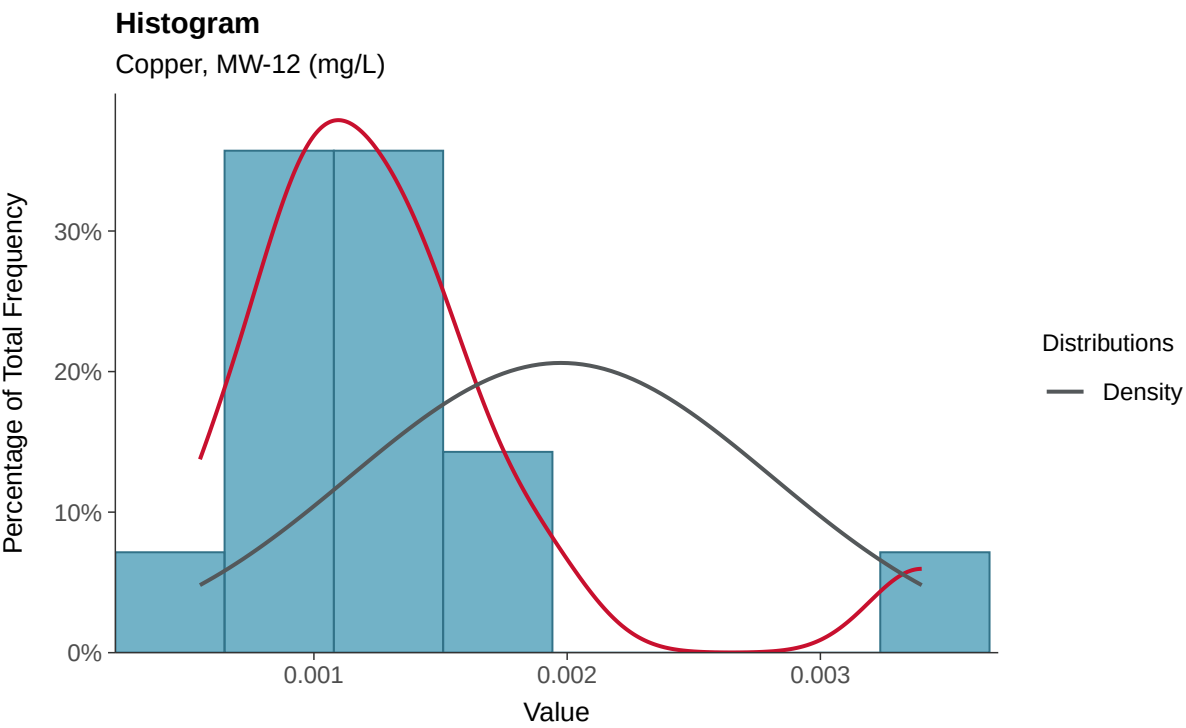
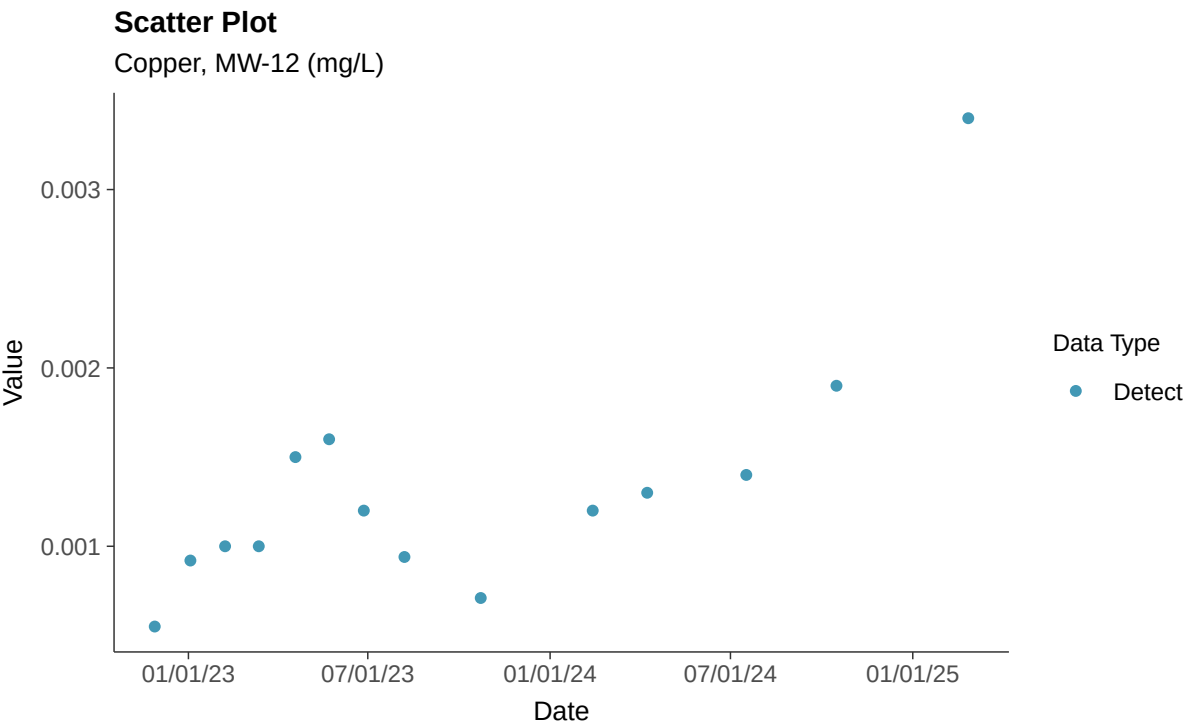


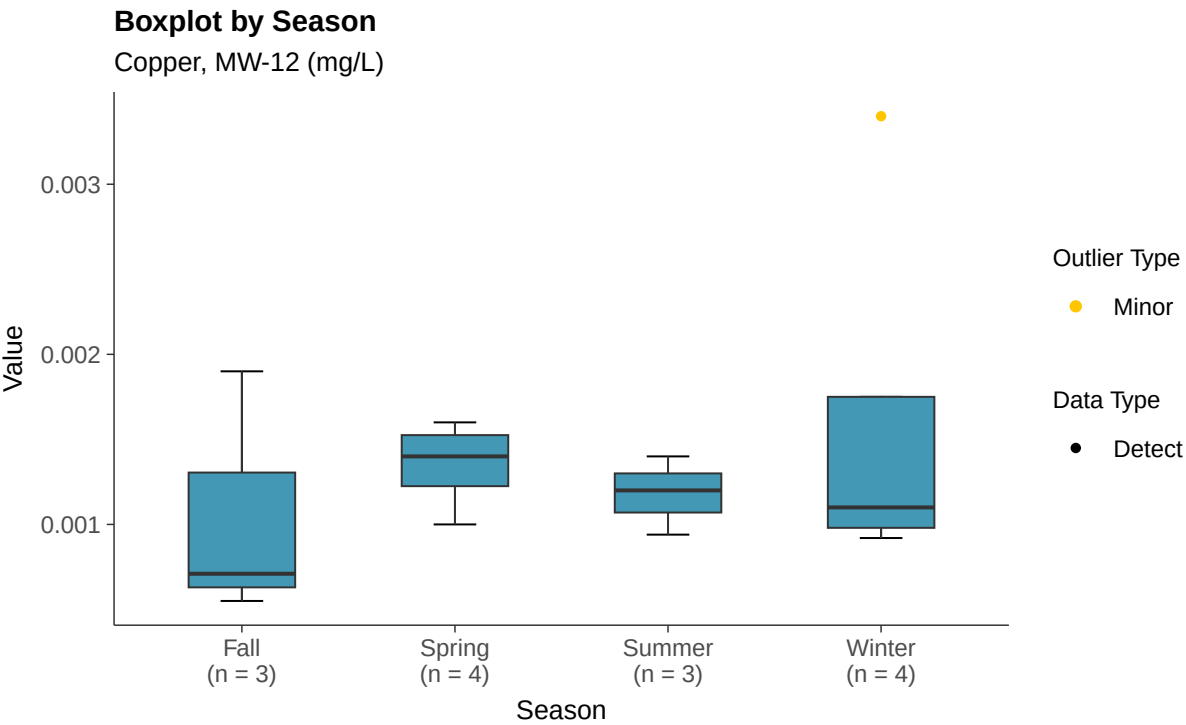
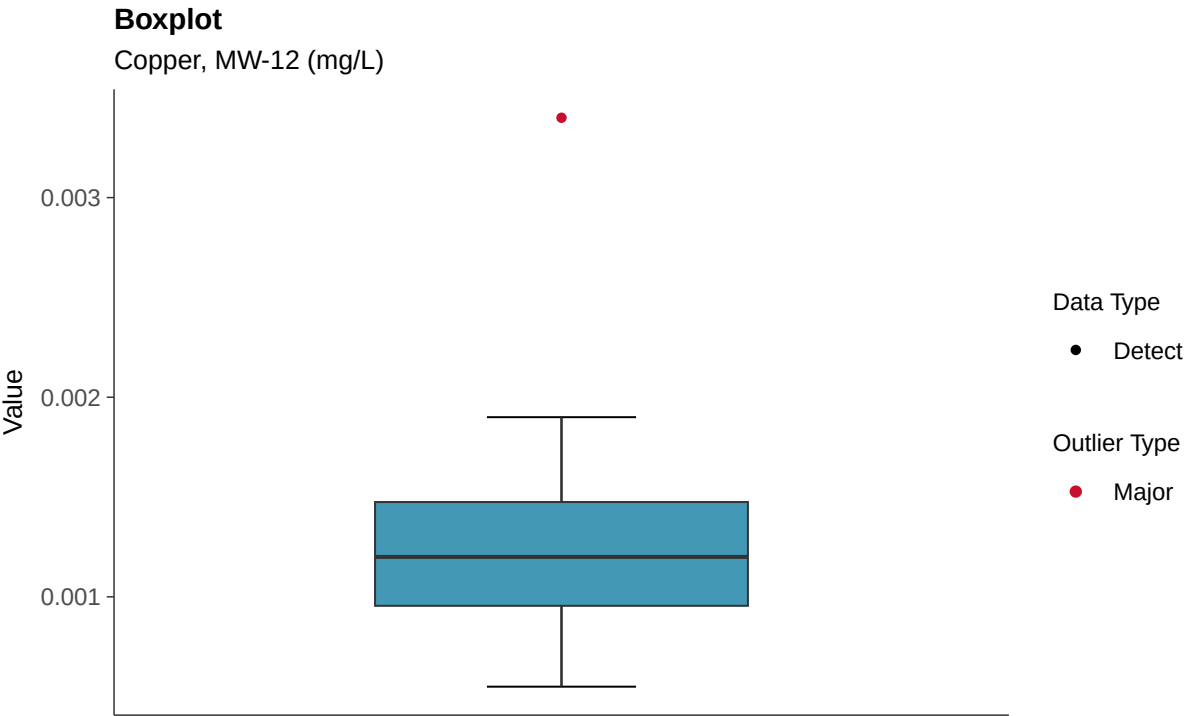


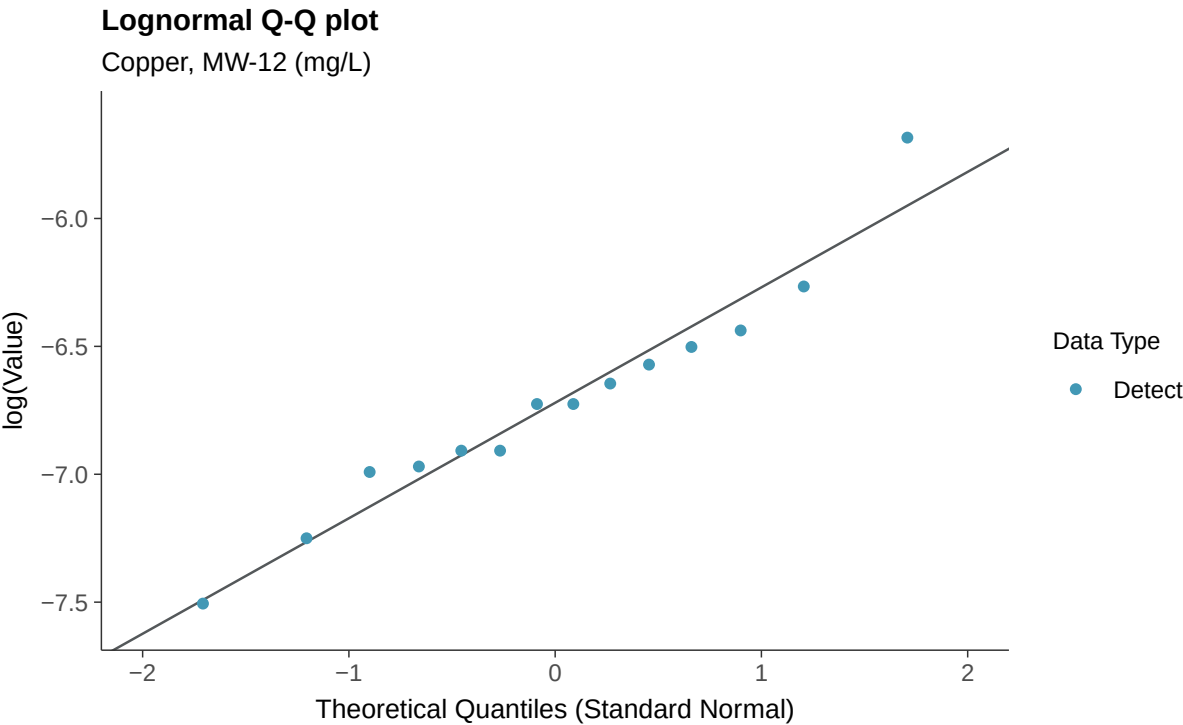
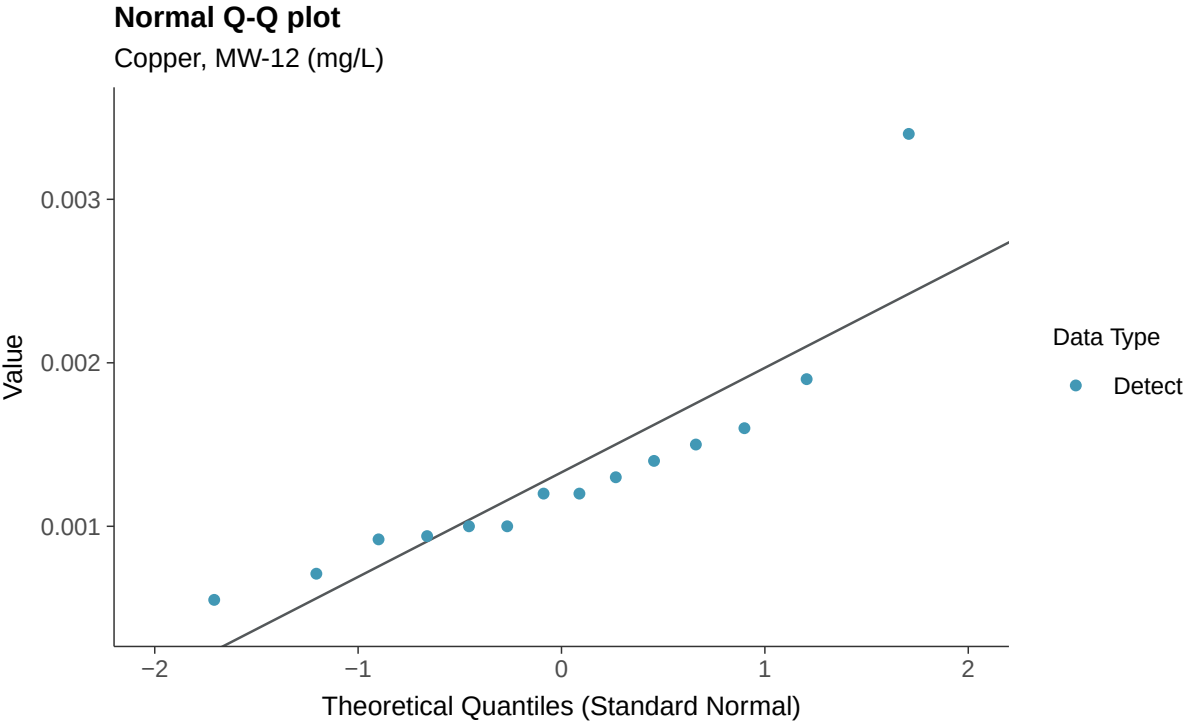


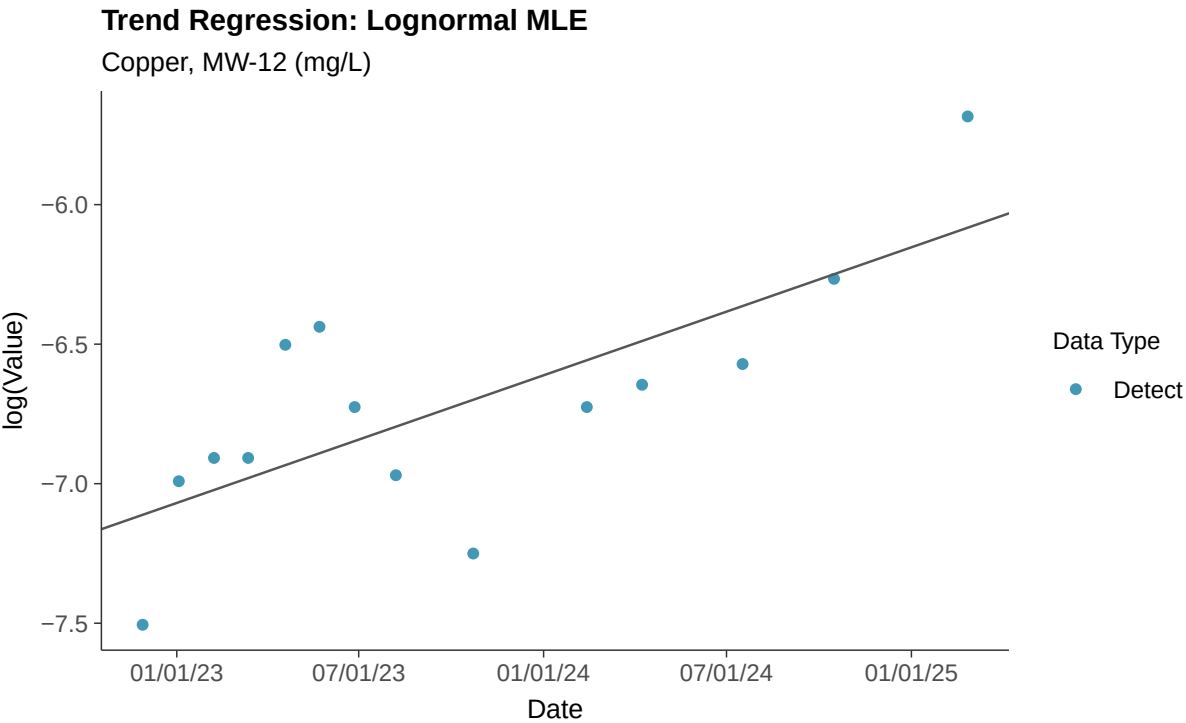
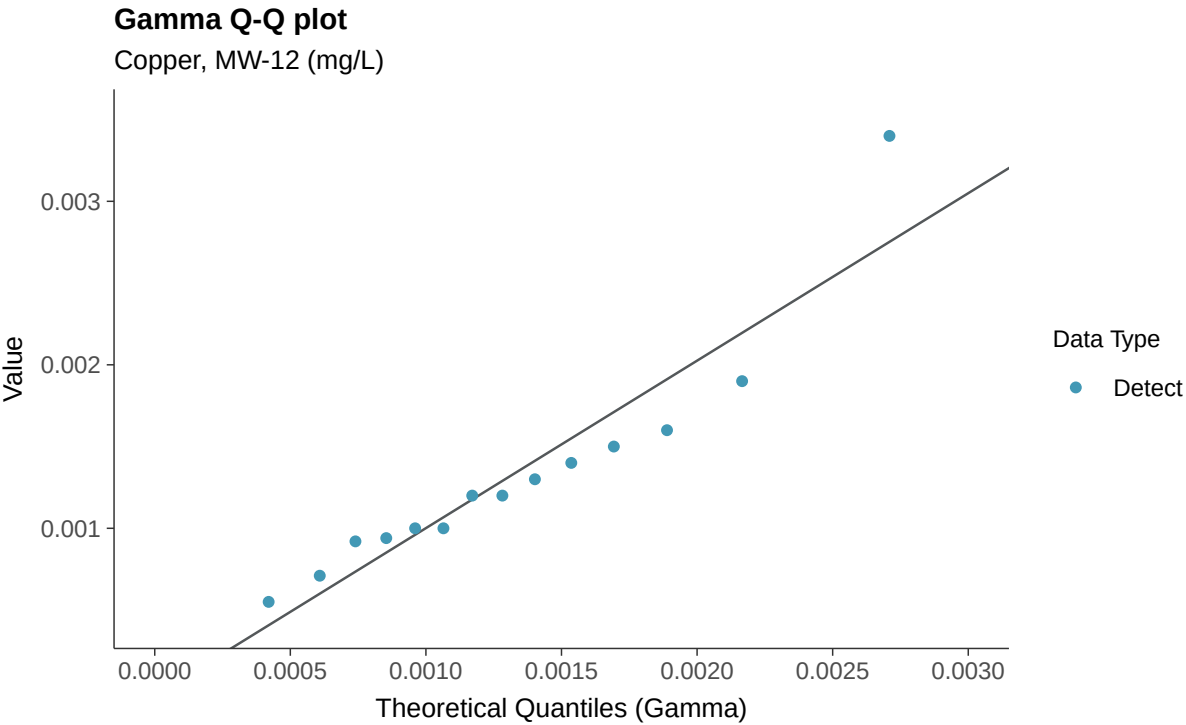
Part 115: Copper, MW-12

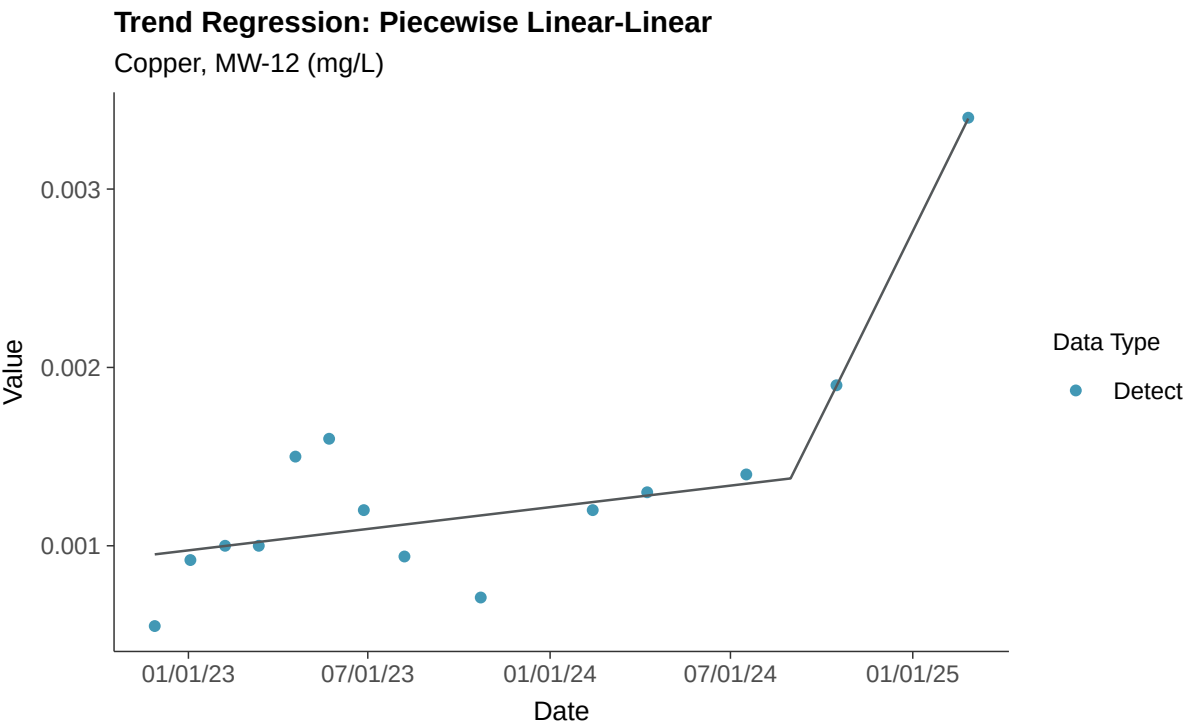
ID: 22_2_5_111







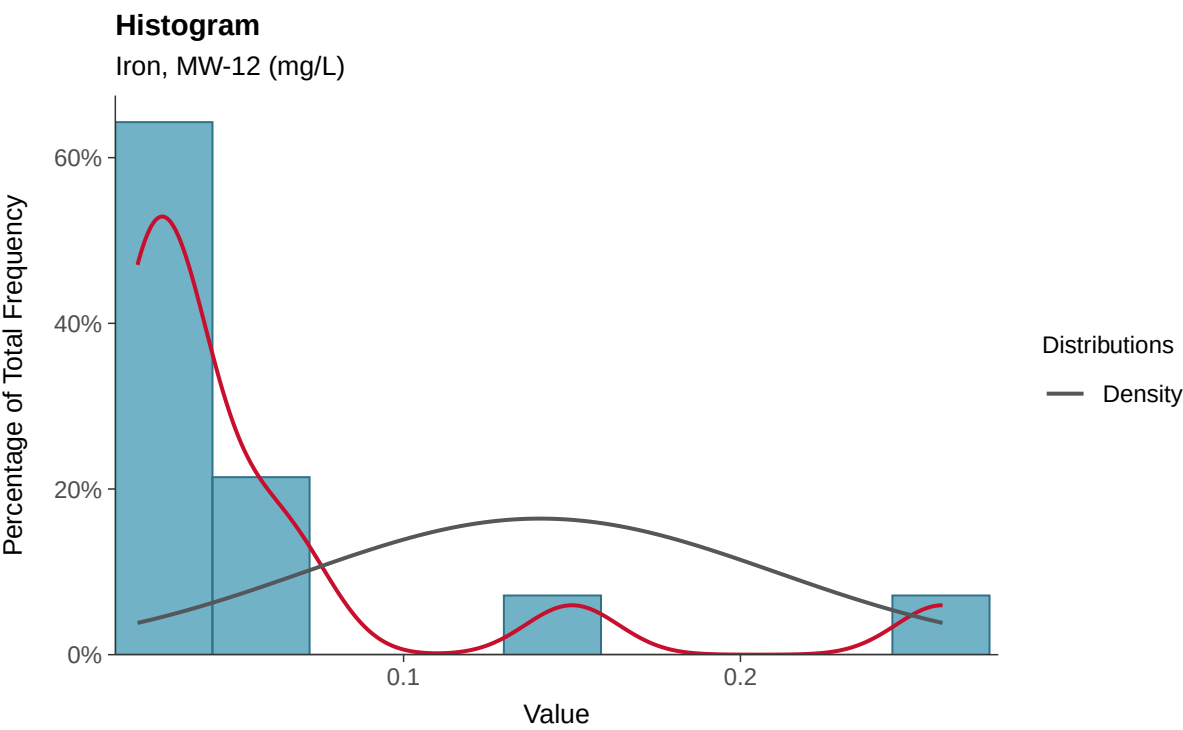
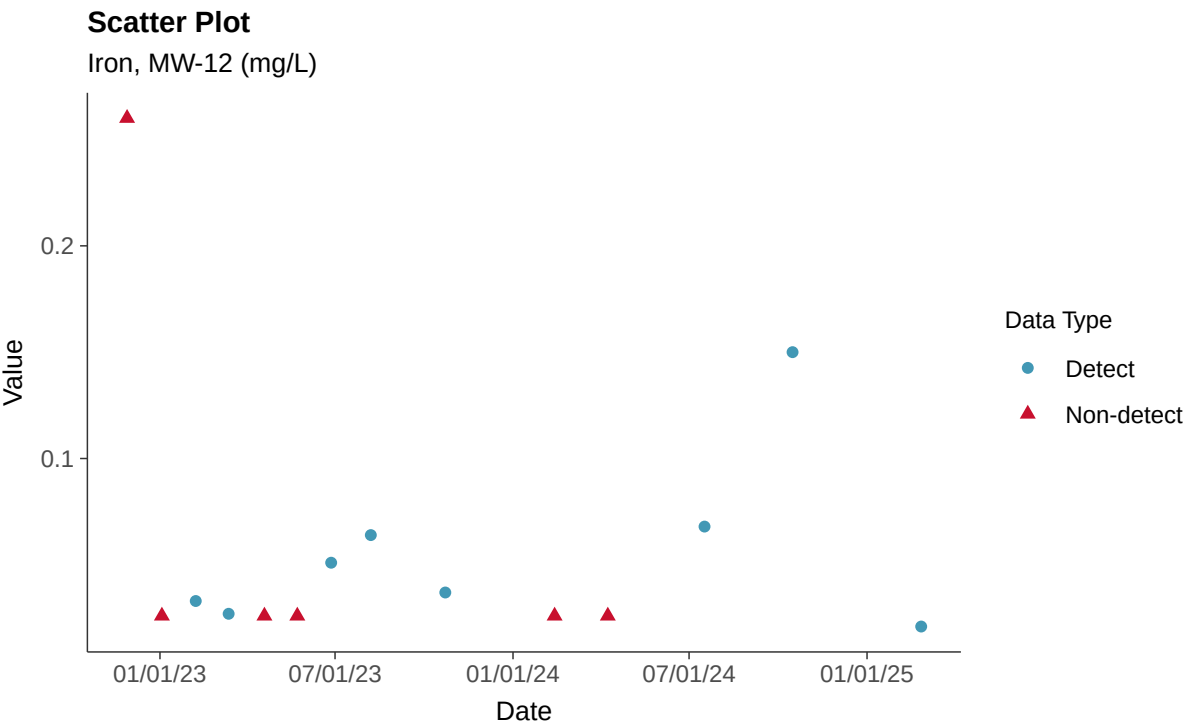


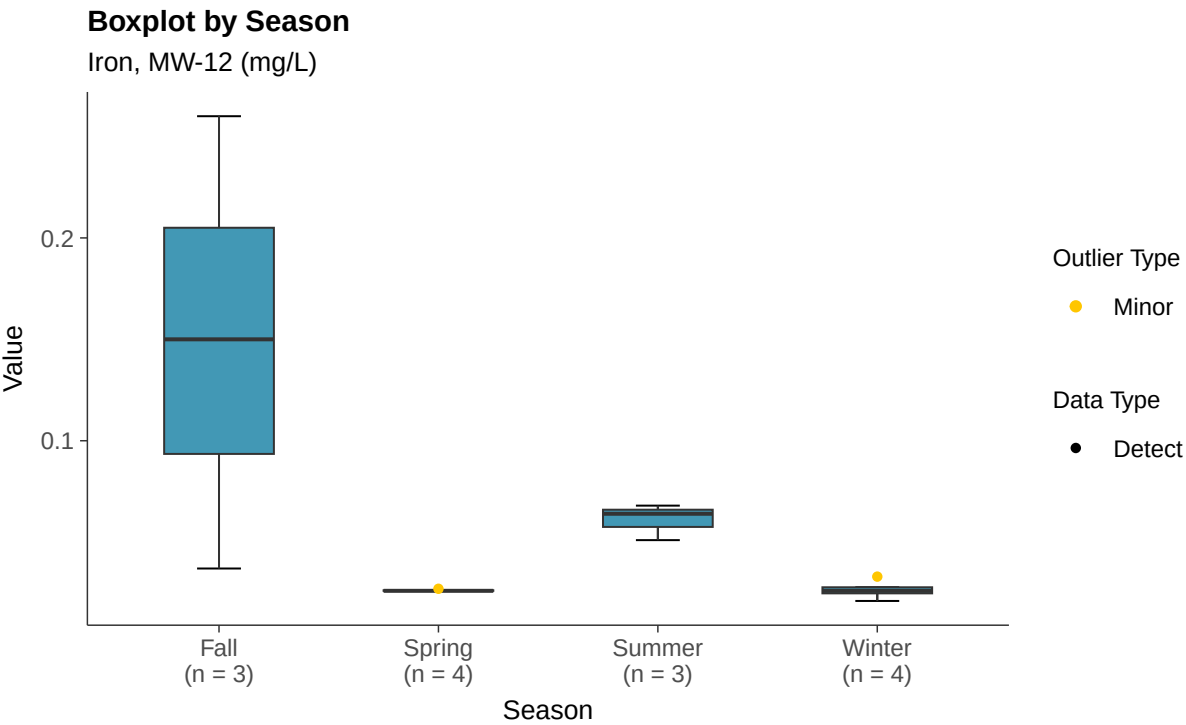
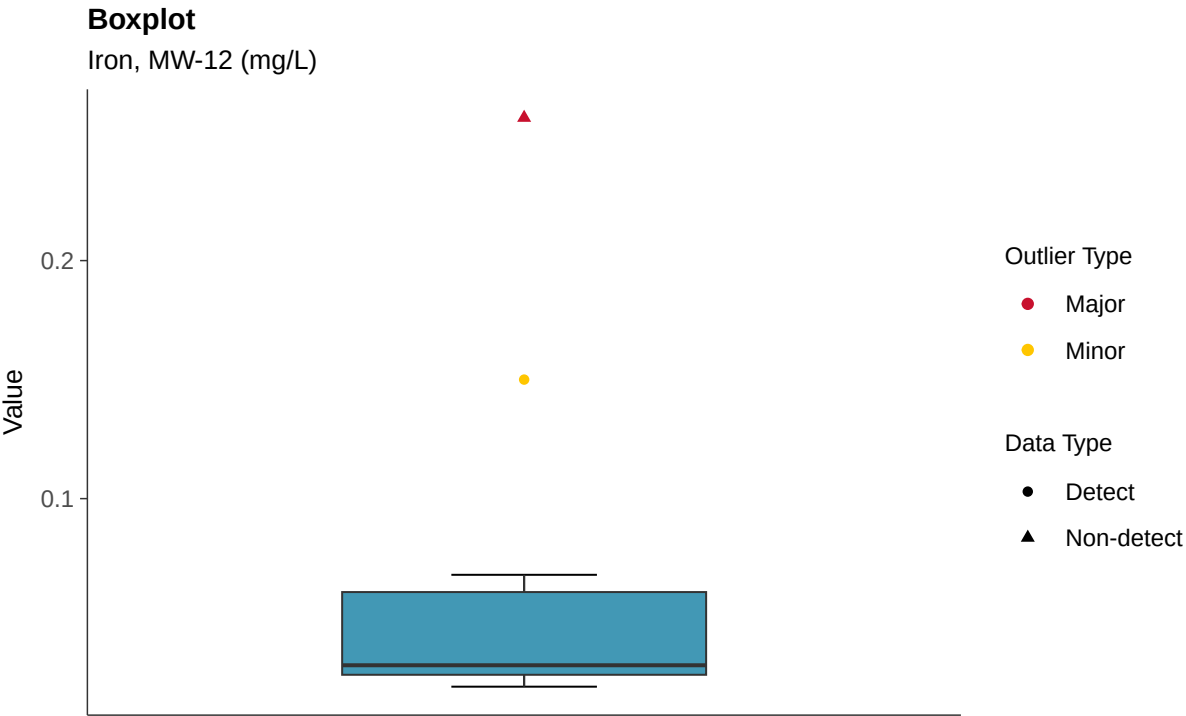


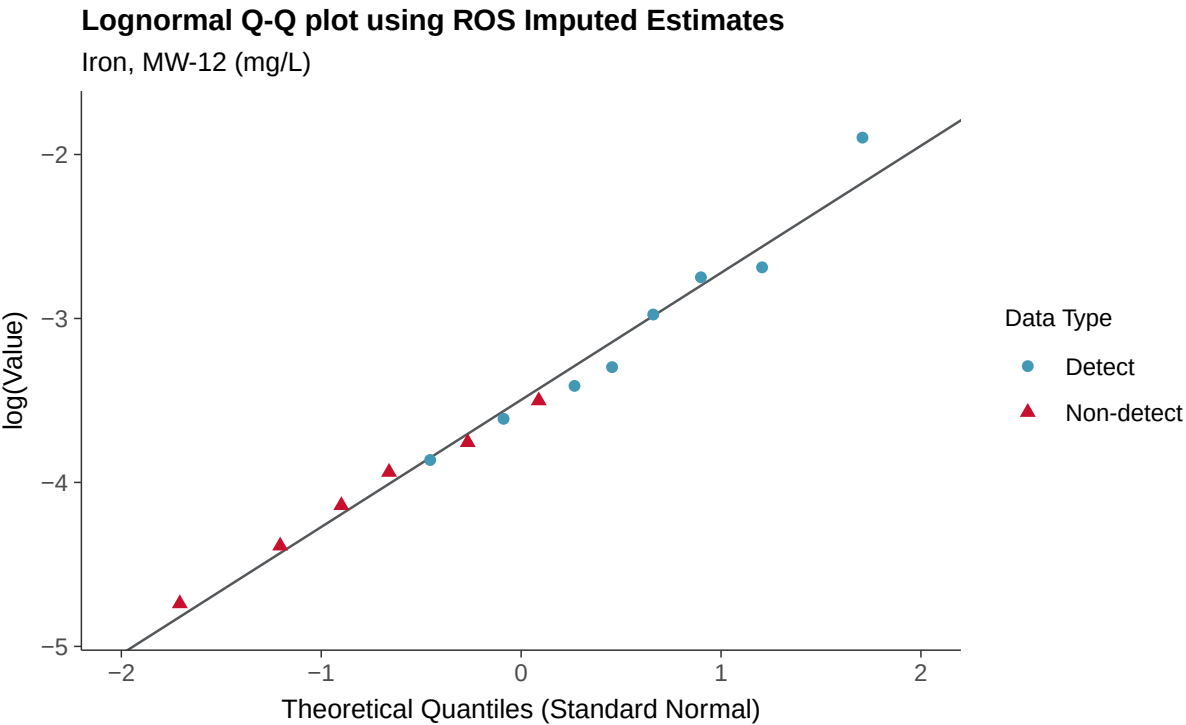
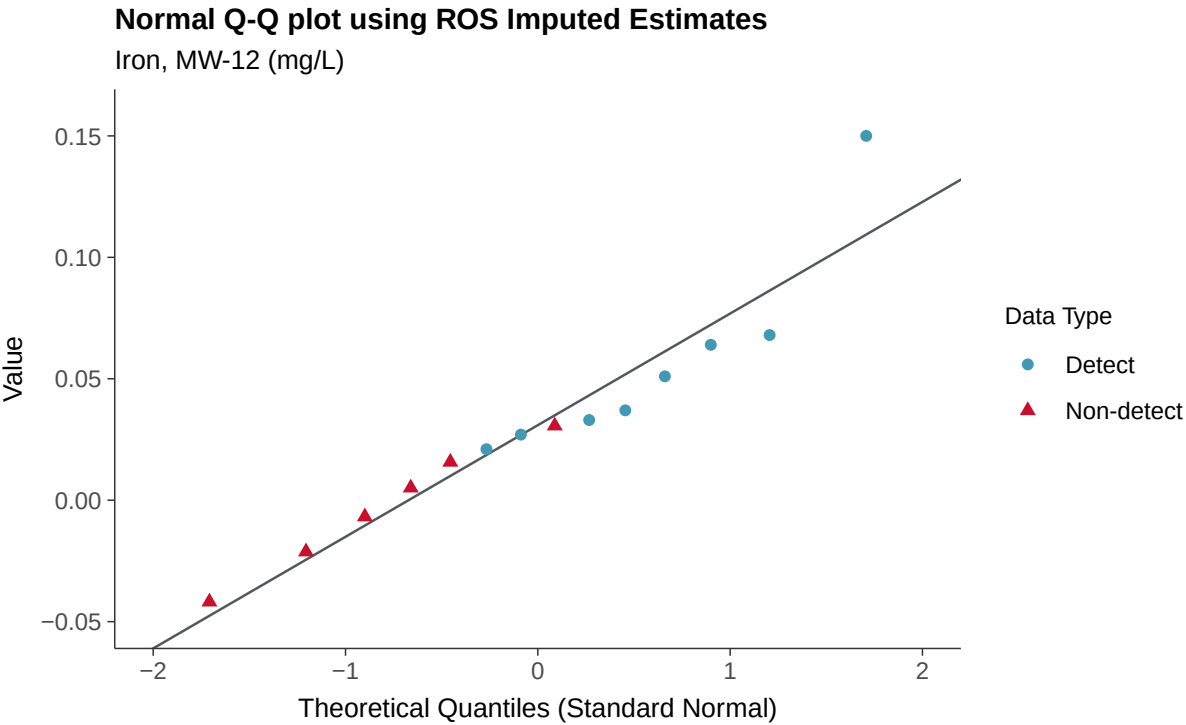


Part 115: Iron, MW-12

ID: 22_2_5_114



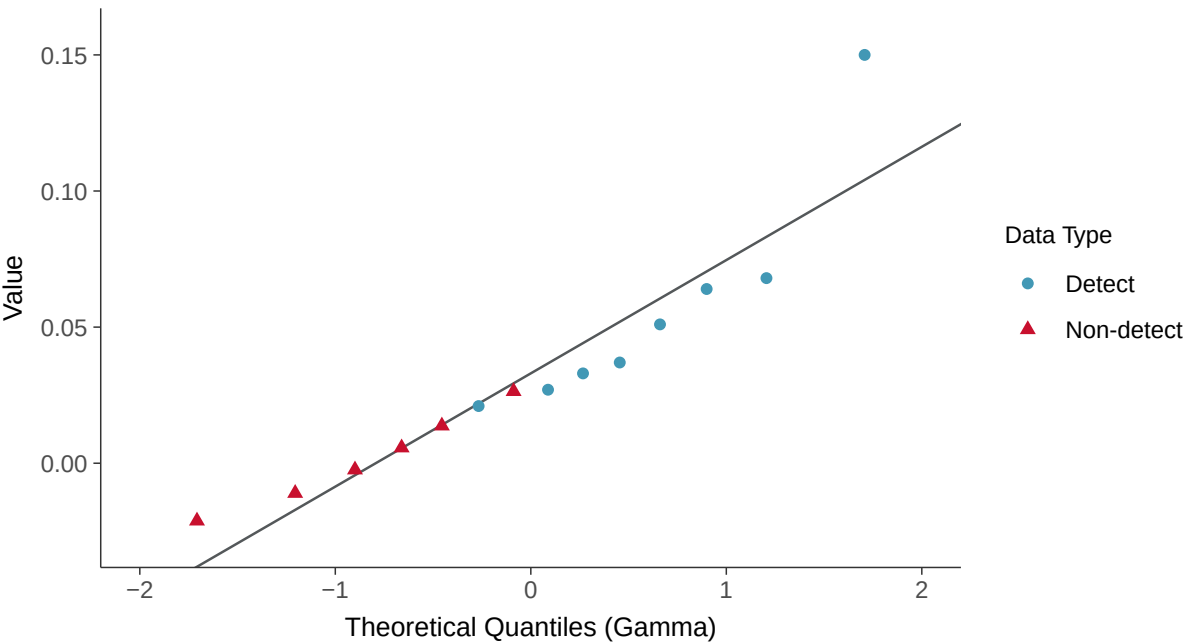






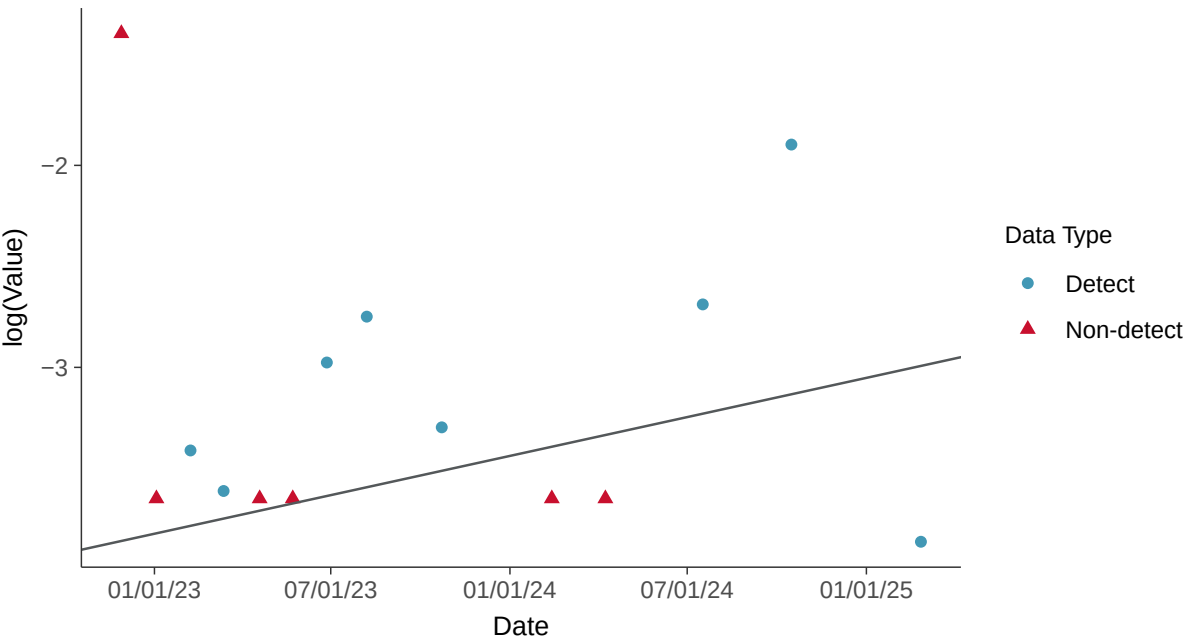
Gamma Q-Q plot using ROS Imputed Estimates

Iron, MW-12 (mg/L)



Trend Regression: Lognormal MLE

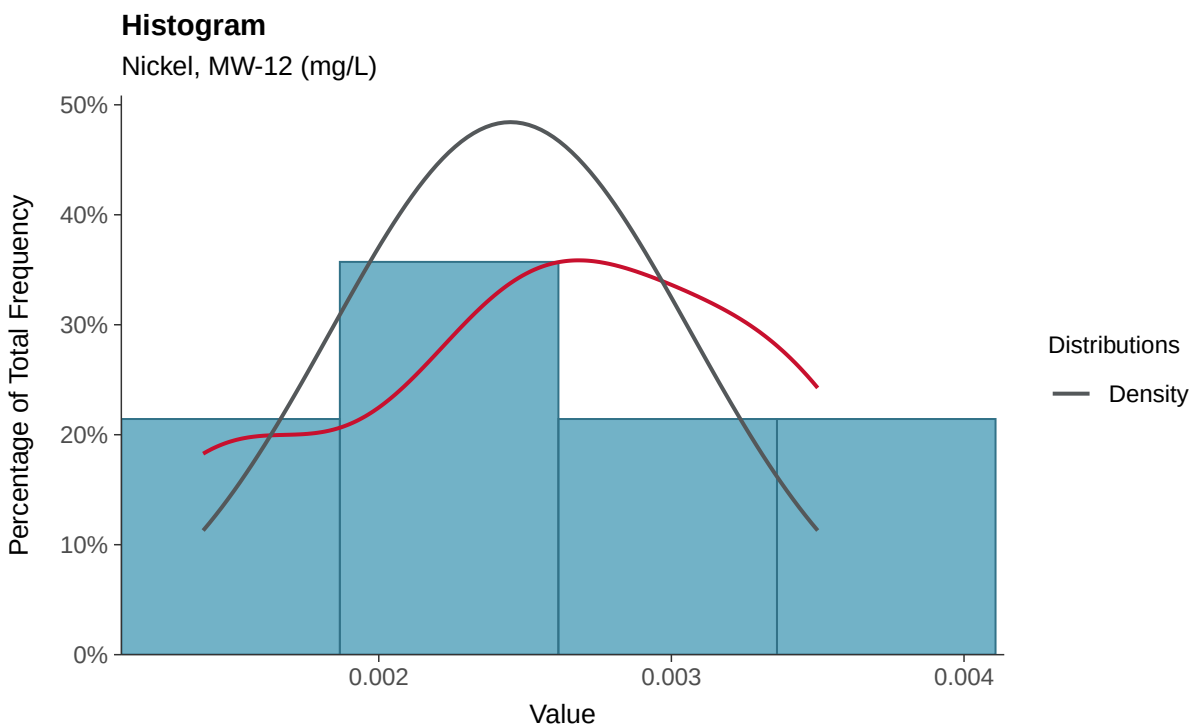
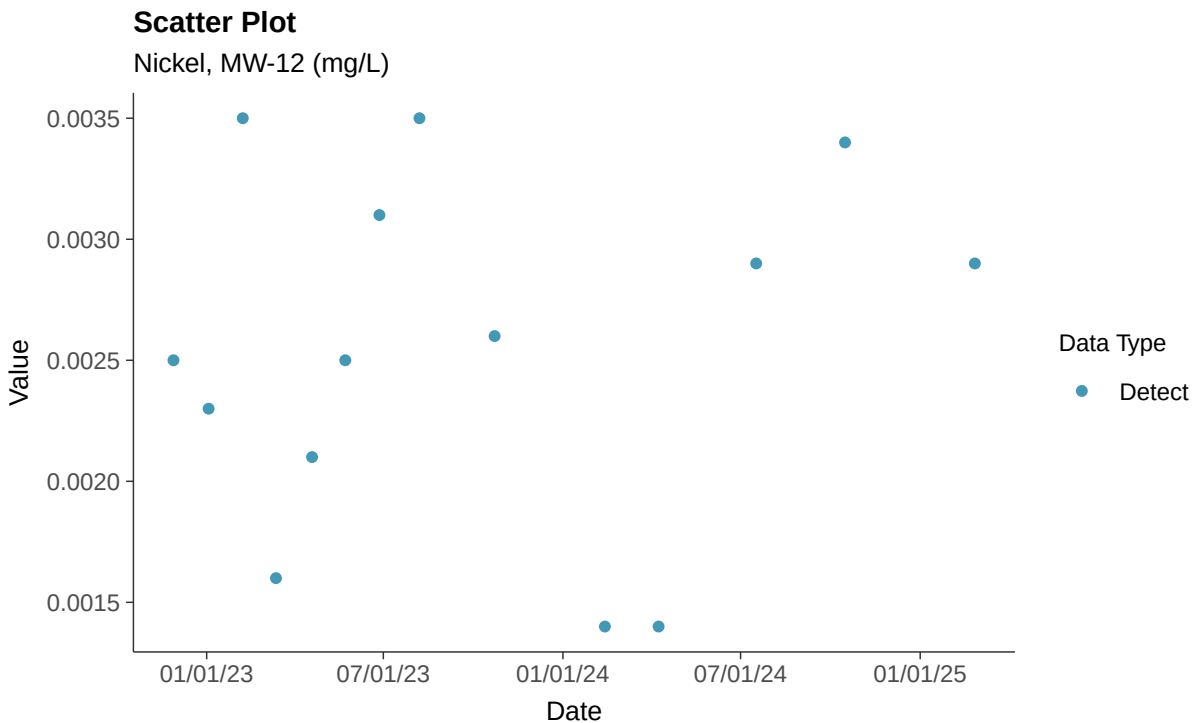
Iron, MW-12 (mg/L)

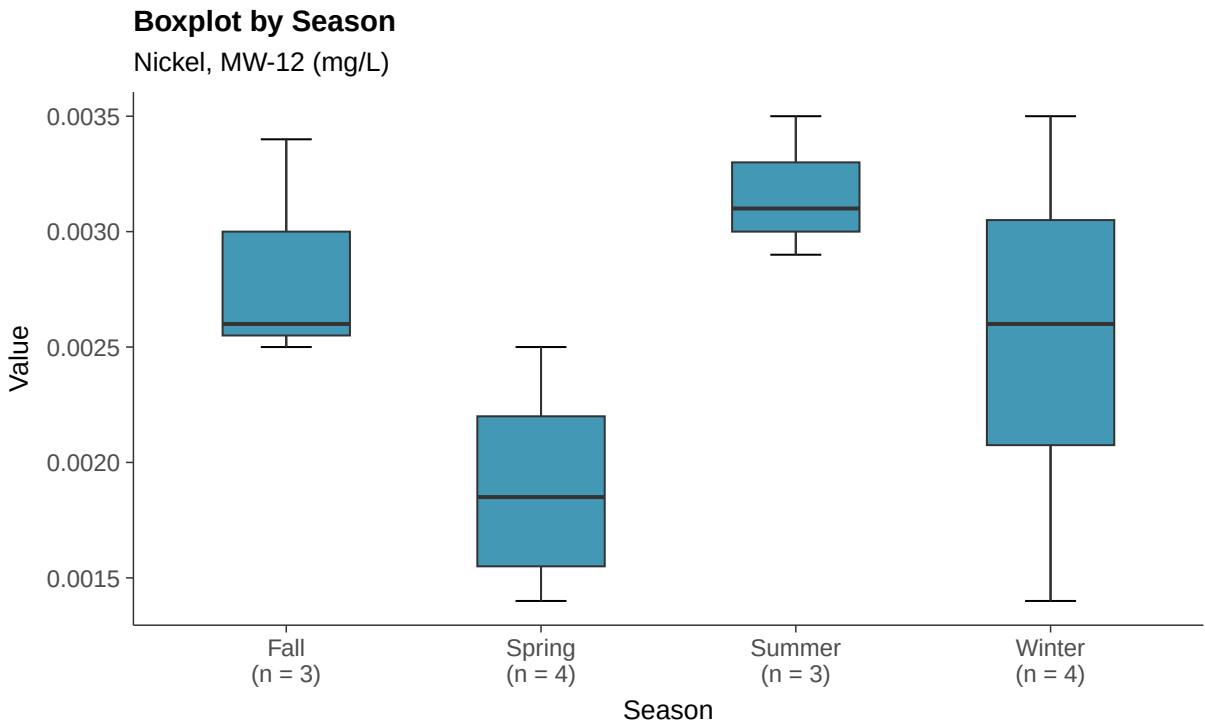
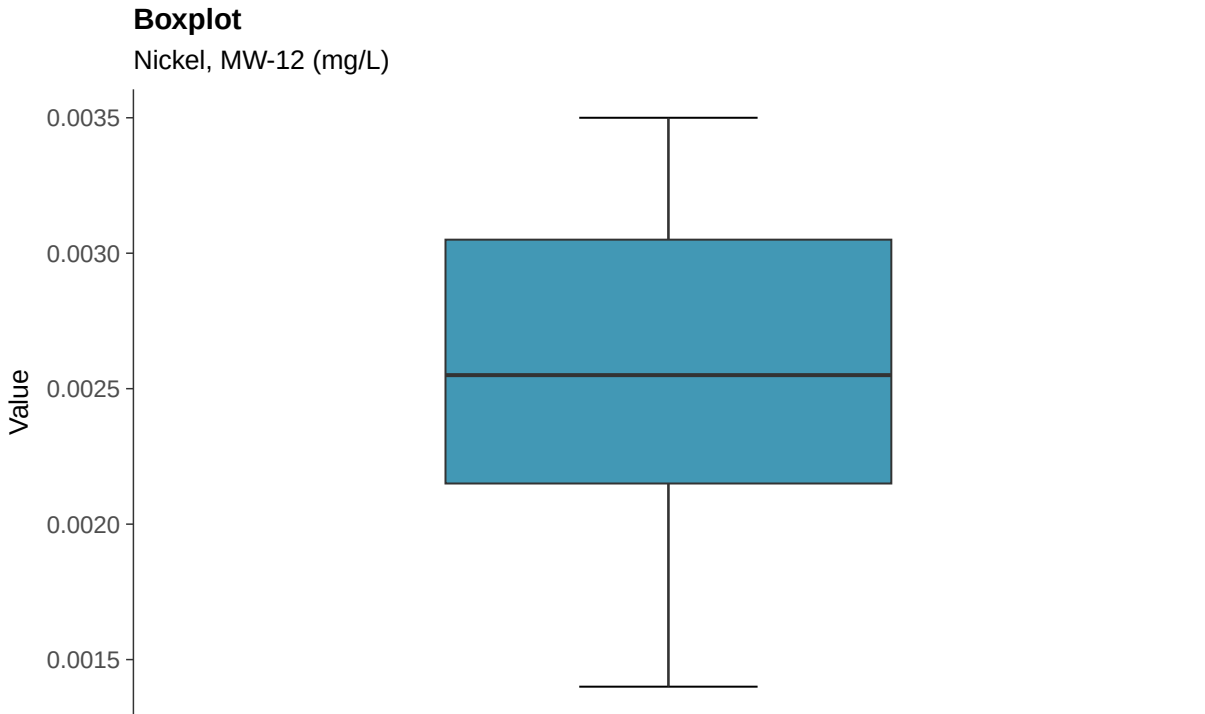


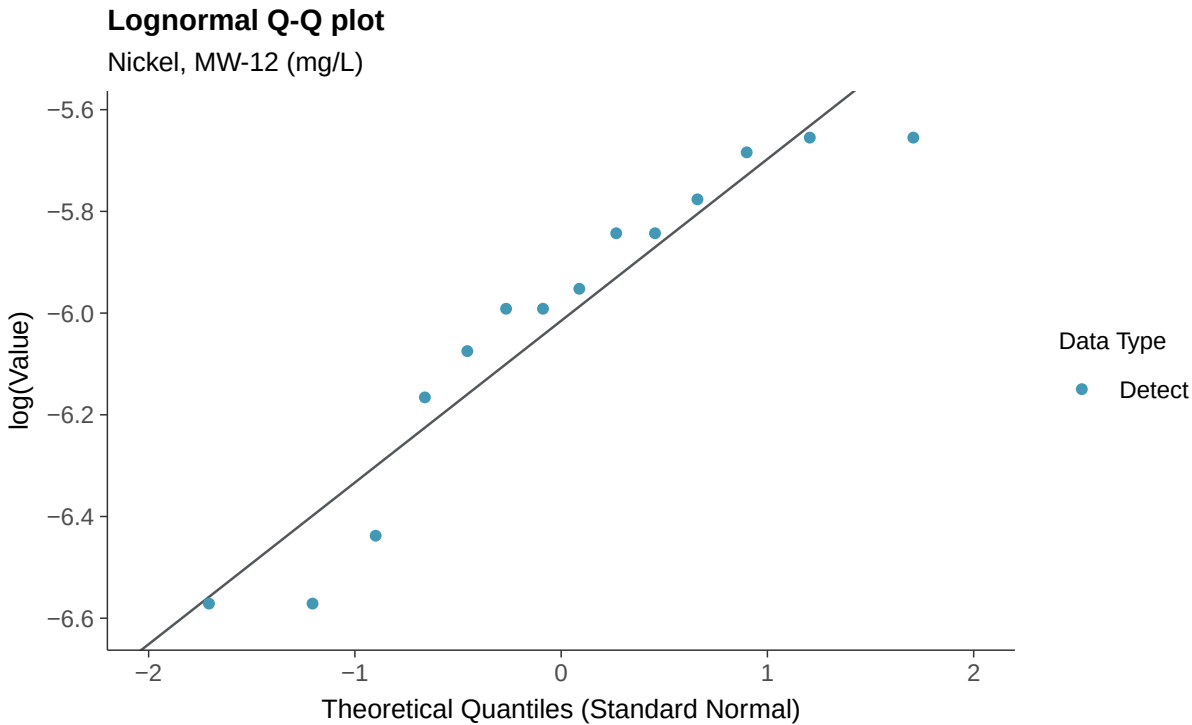
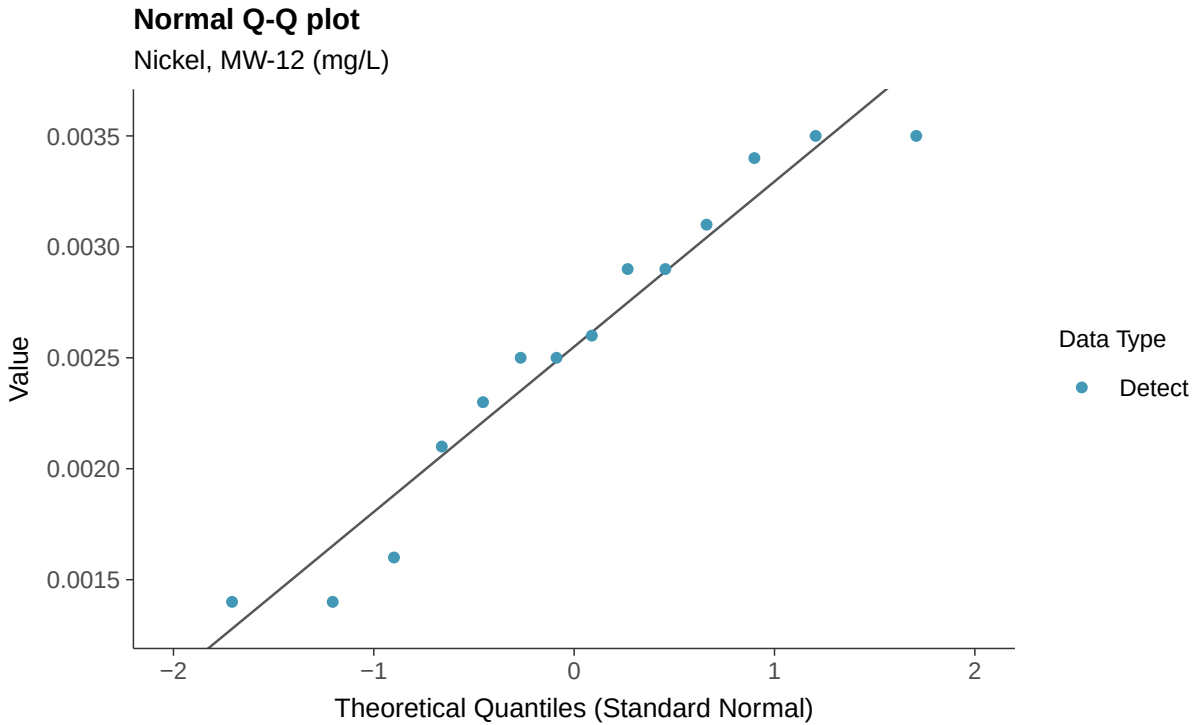


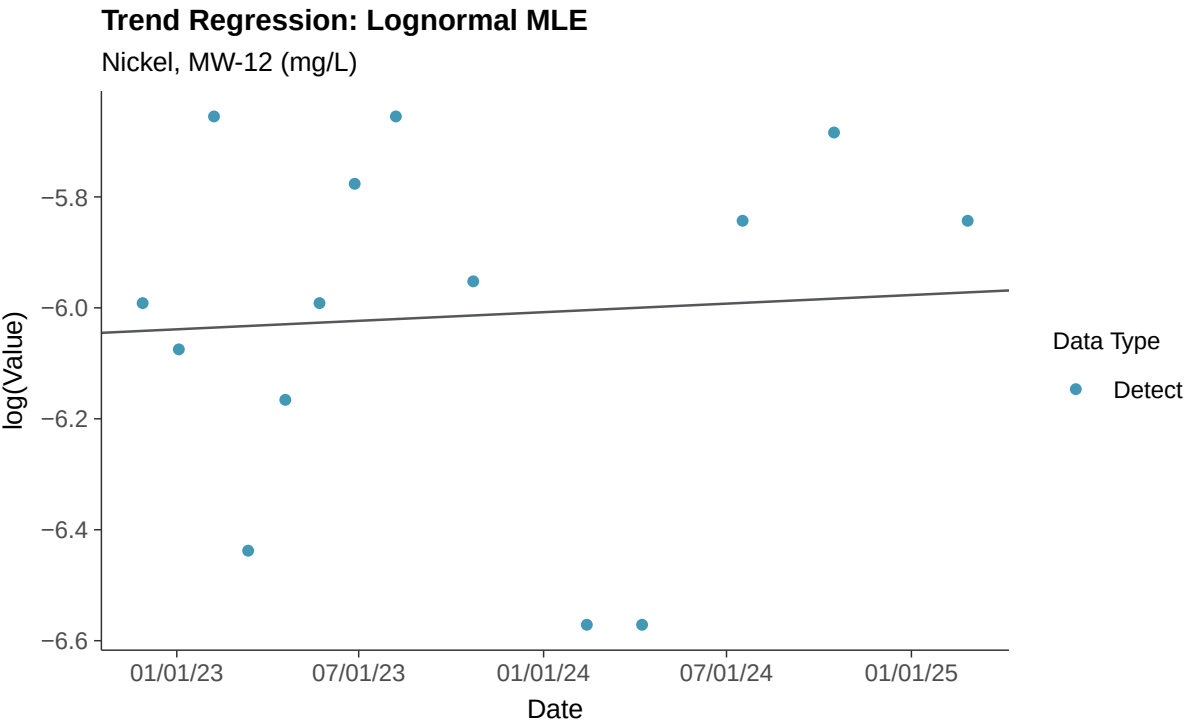
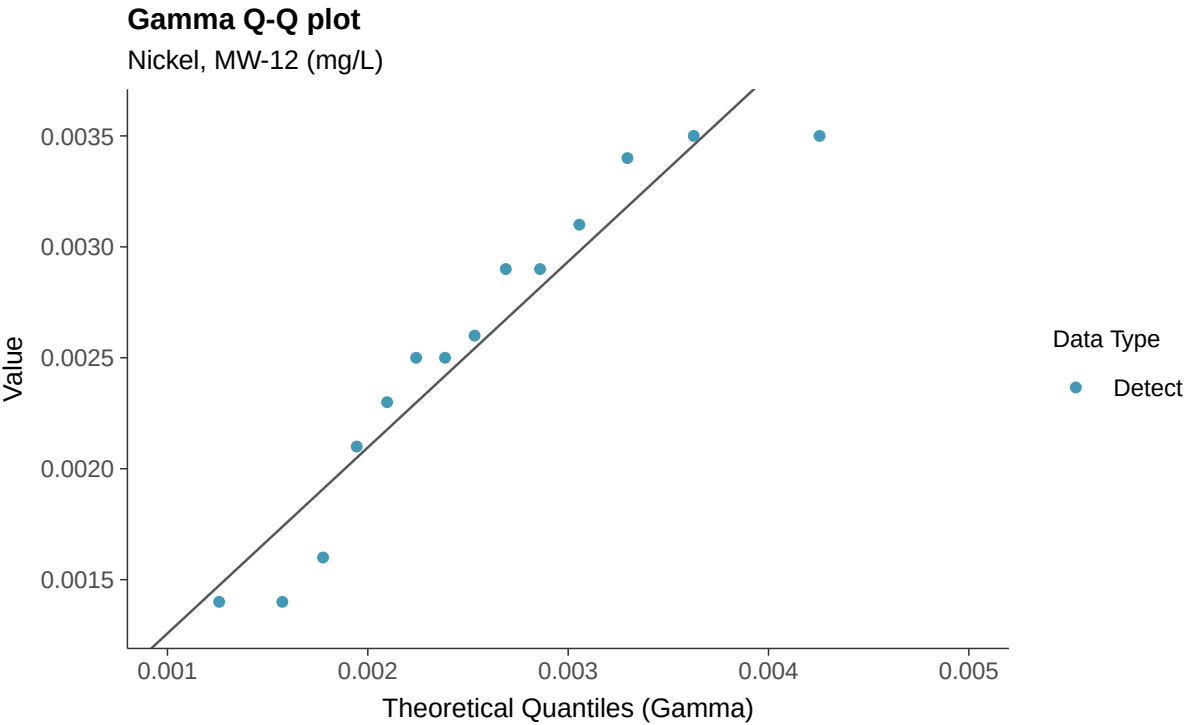
Part 115: Nickel, MW-12

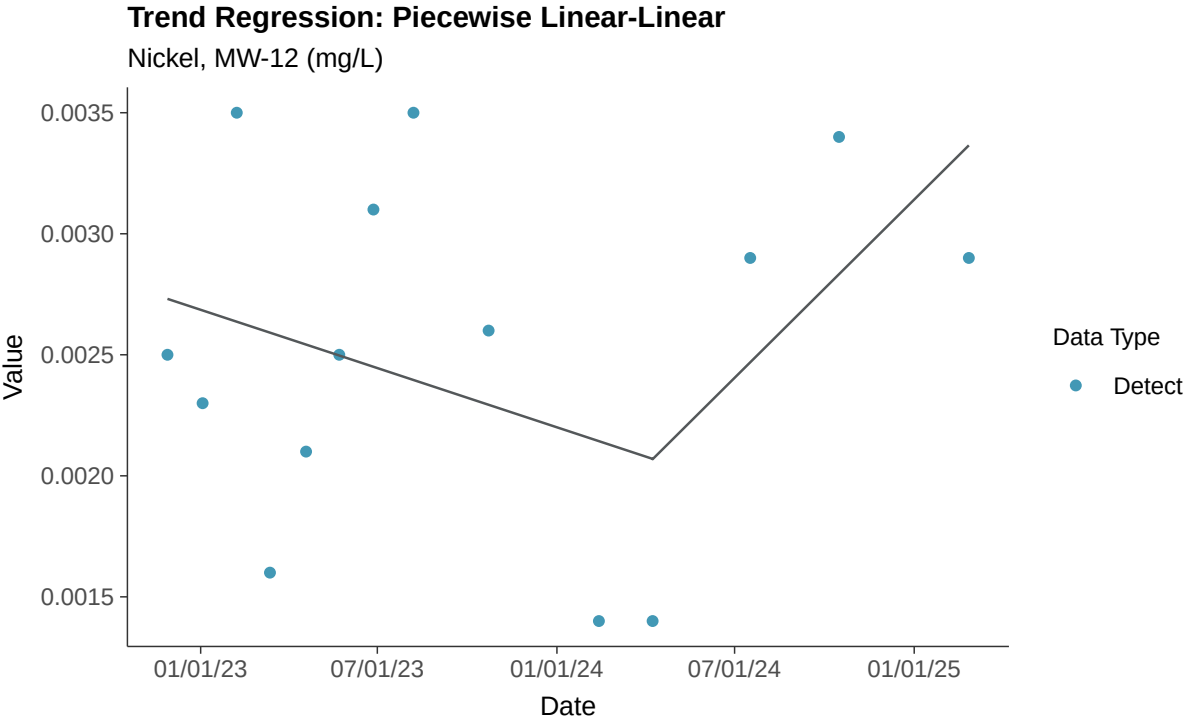
ID: 22_2_5_119







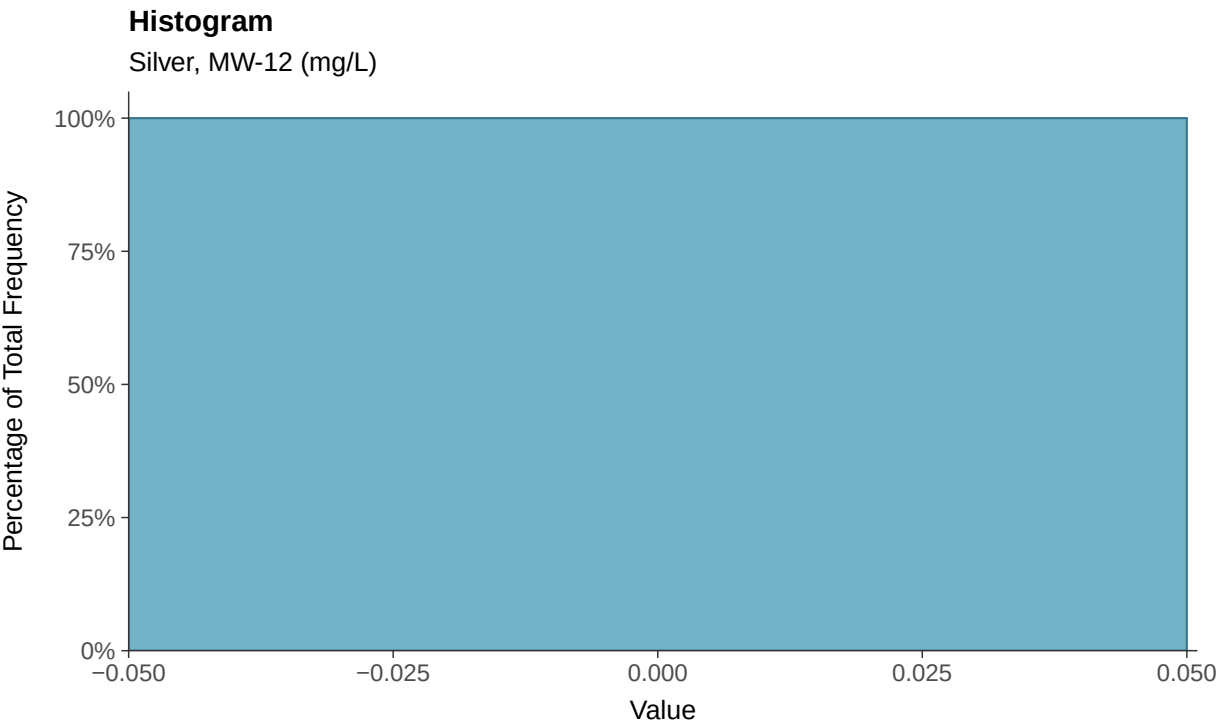
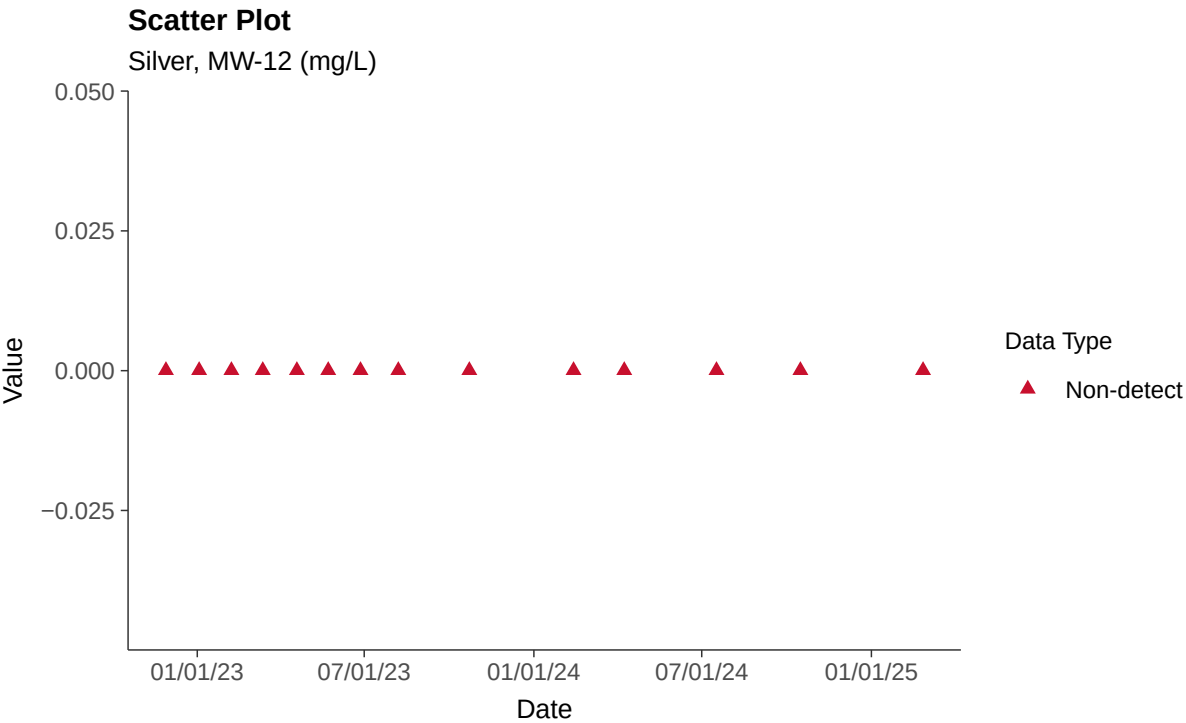


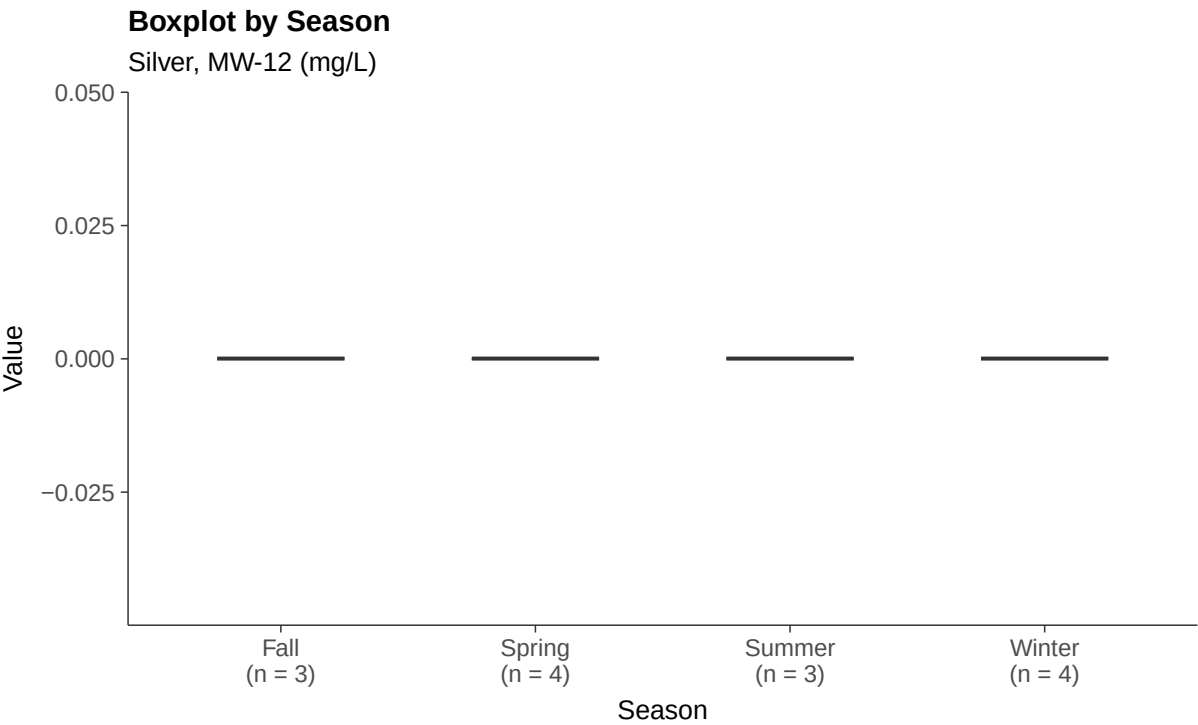
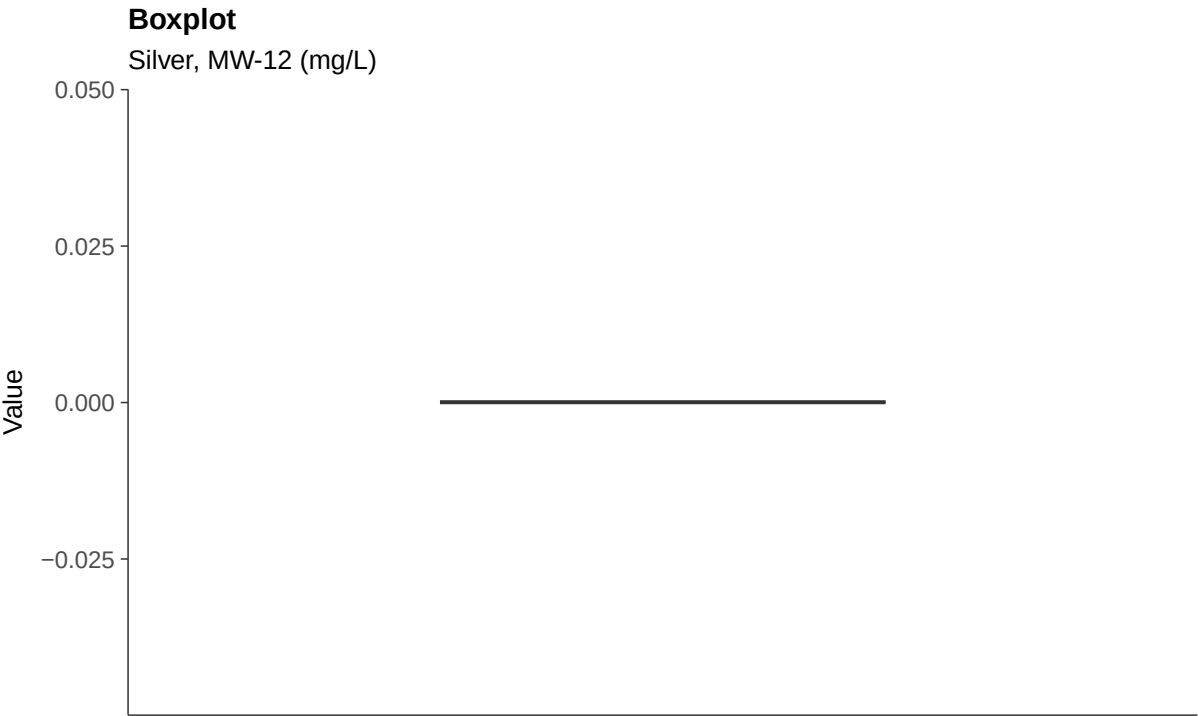


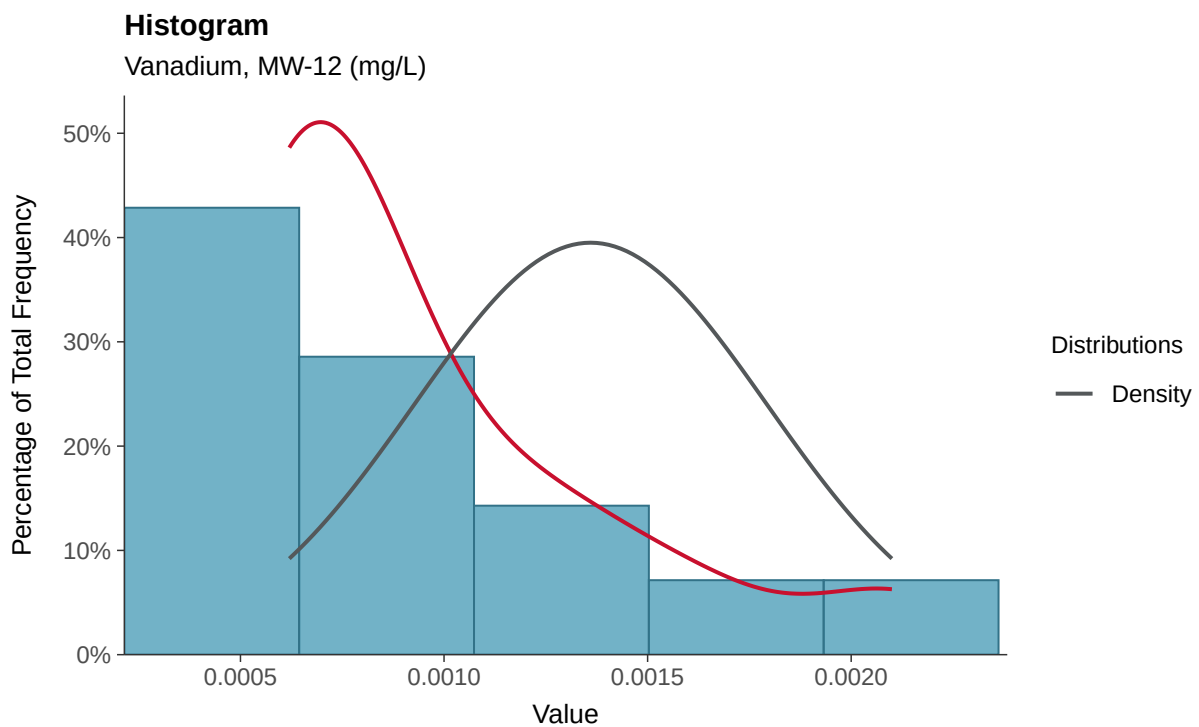


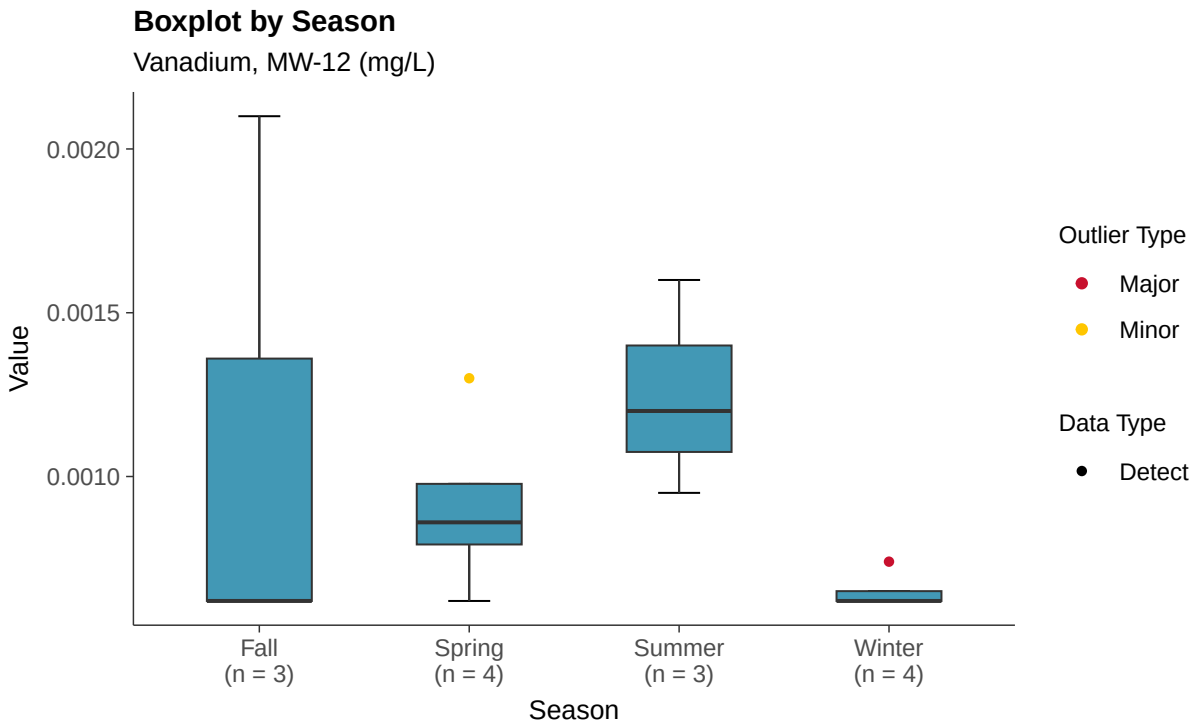
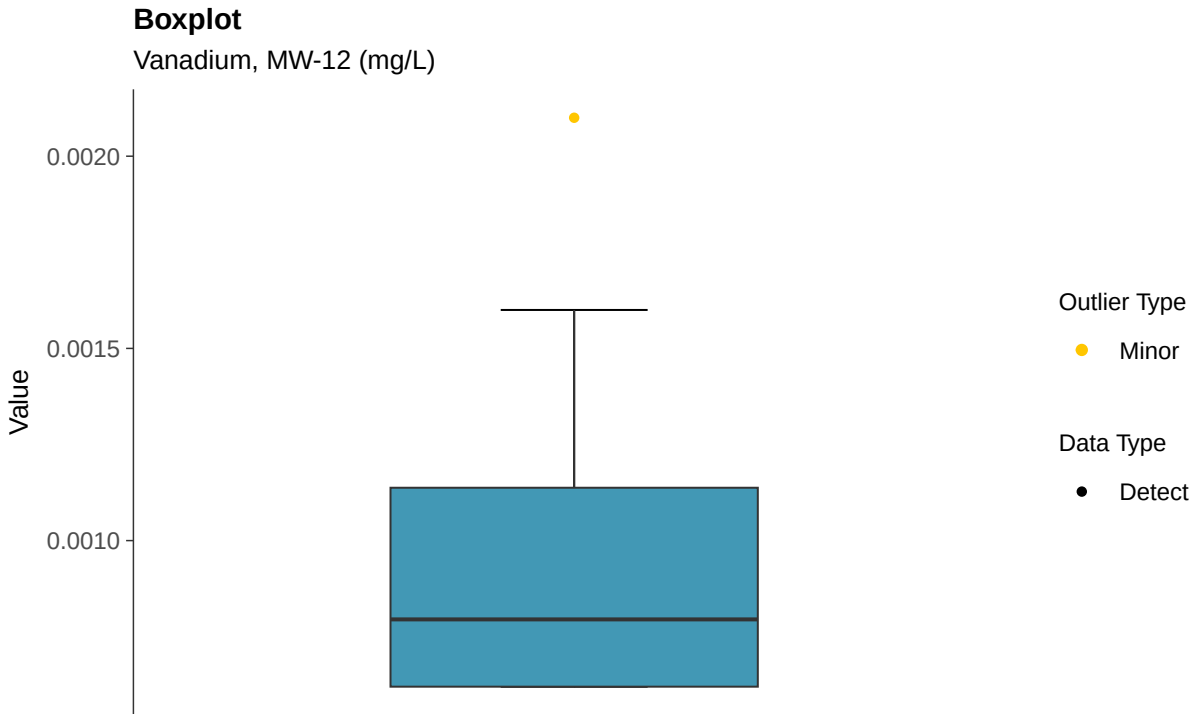
Part 115: Silver, MW-12

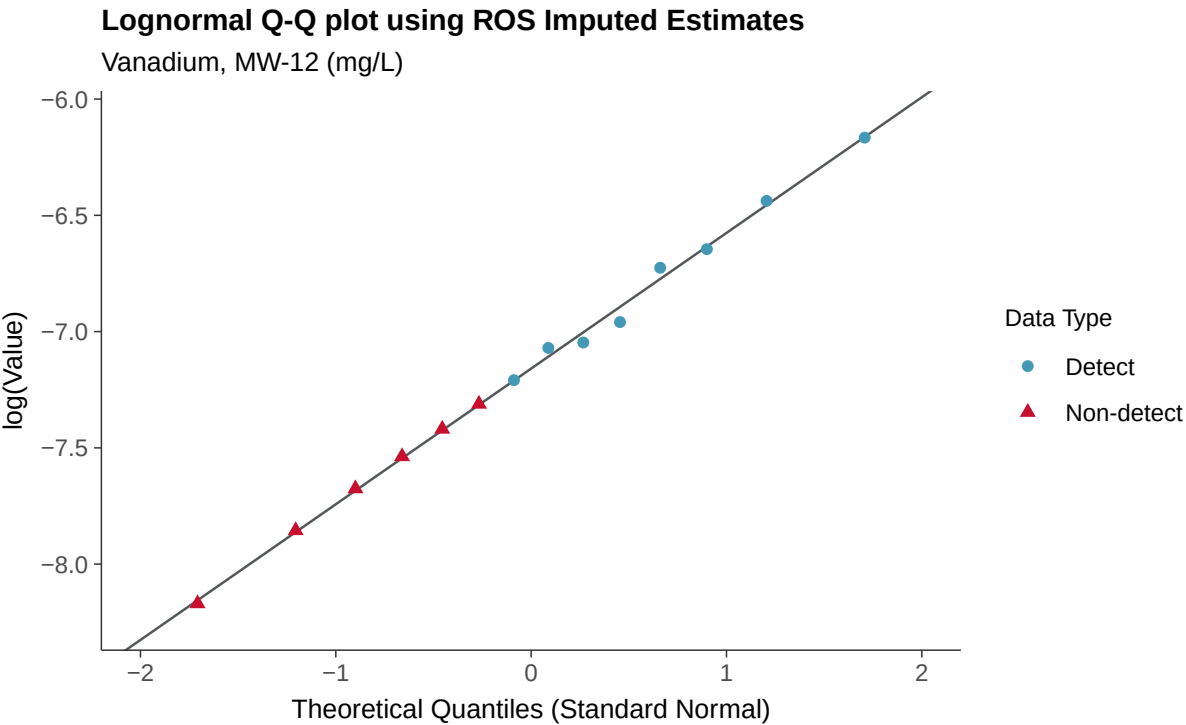
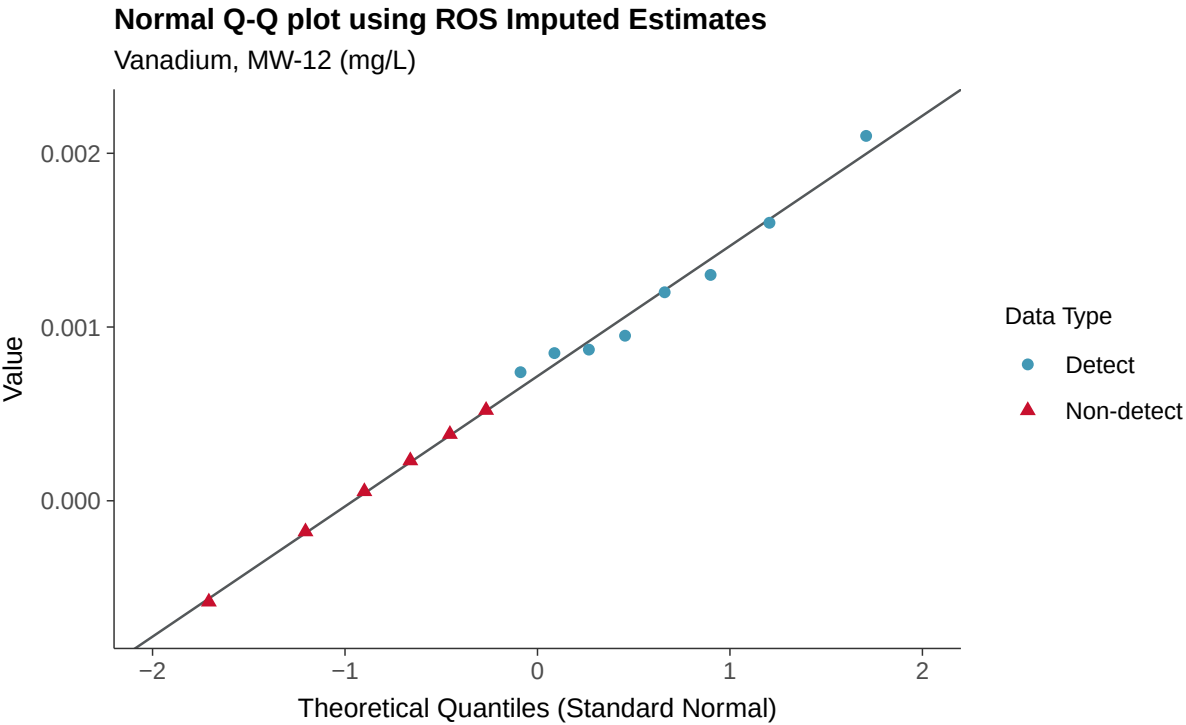
ID: 22_2_5_123

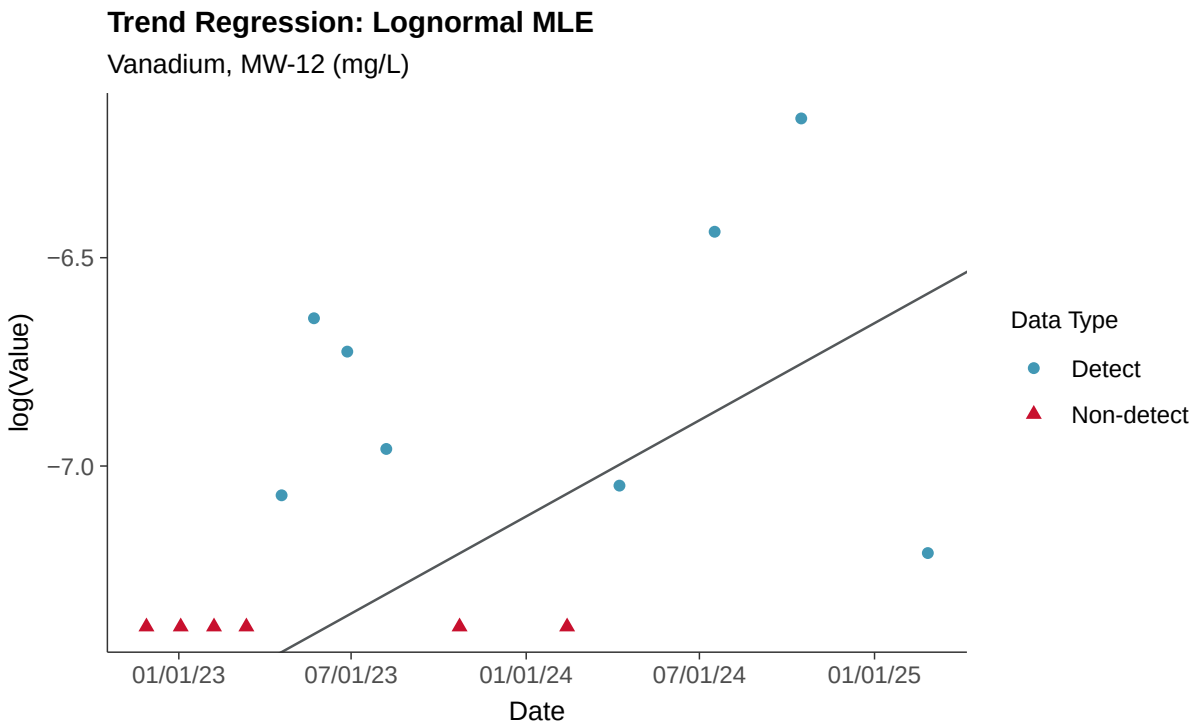
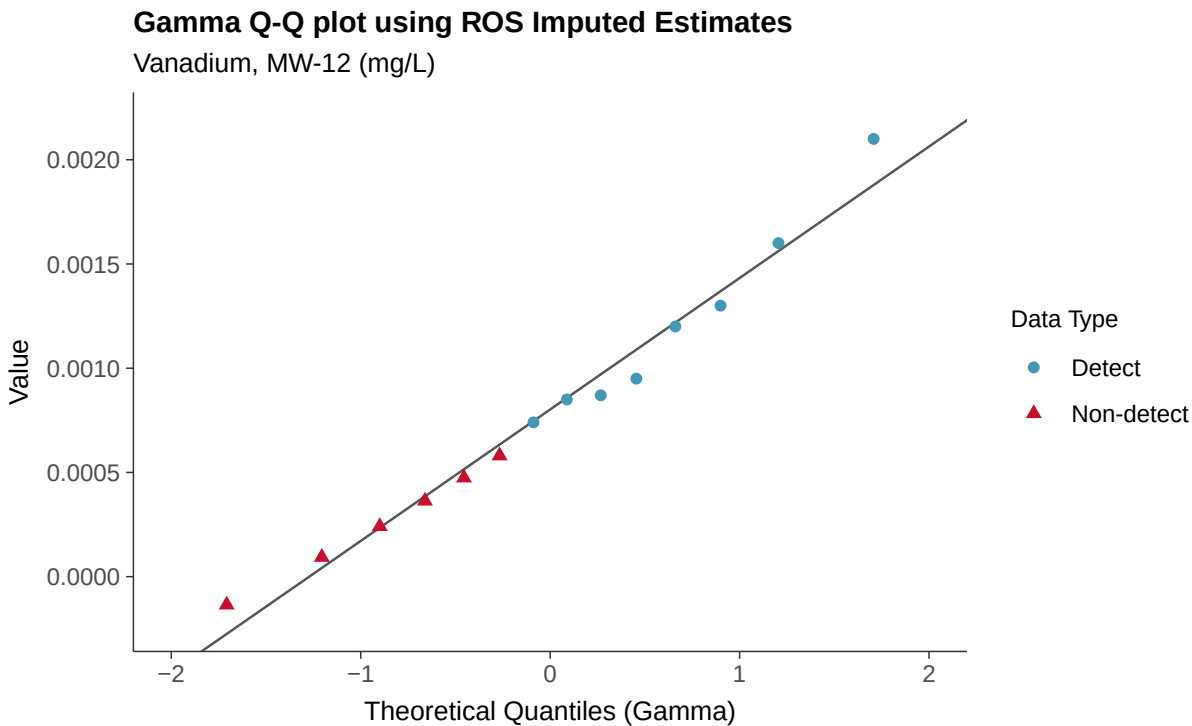








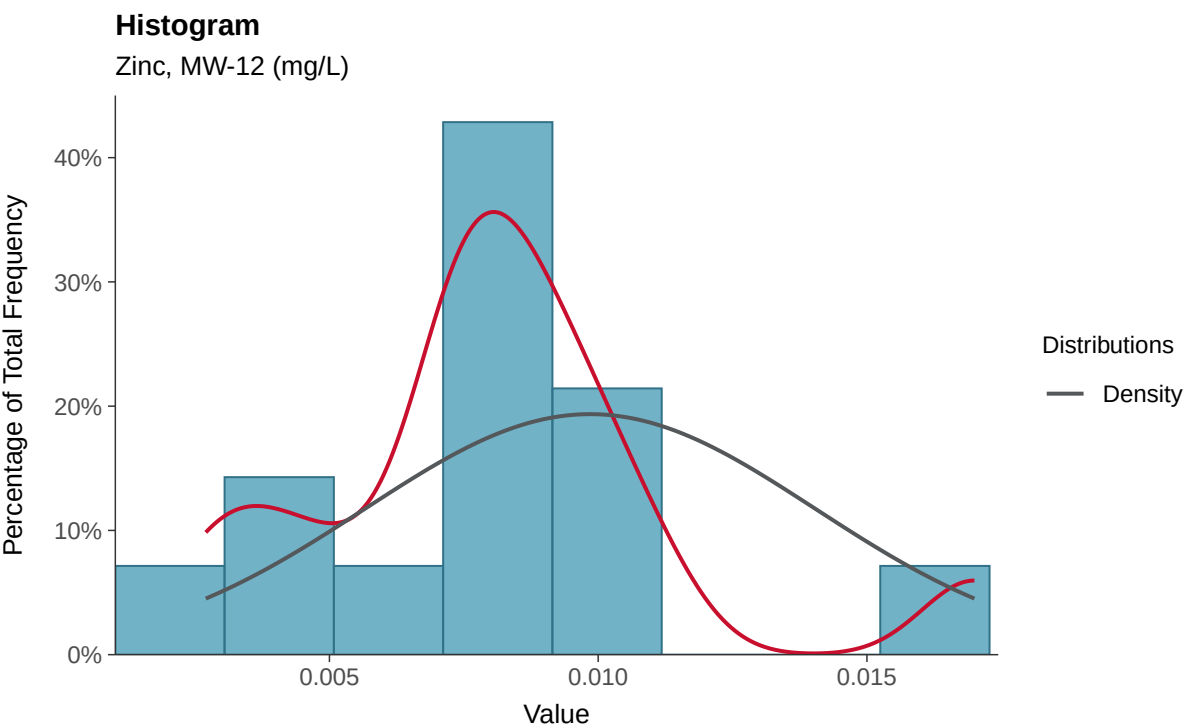
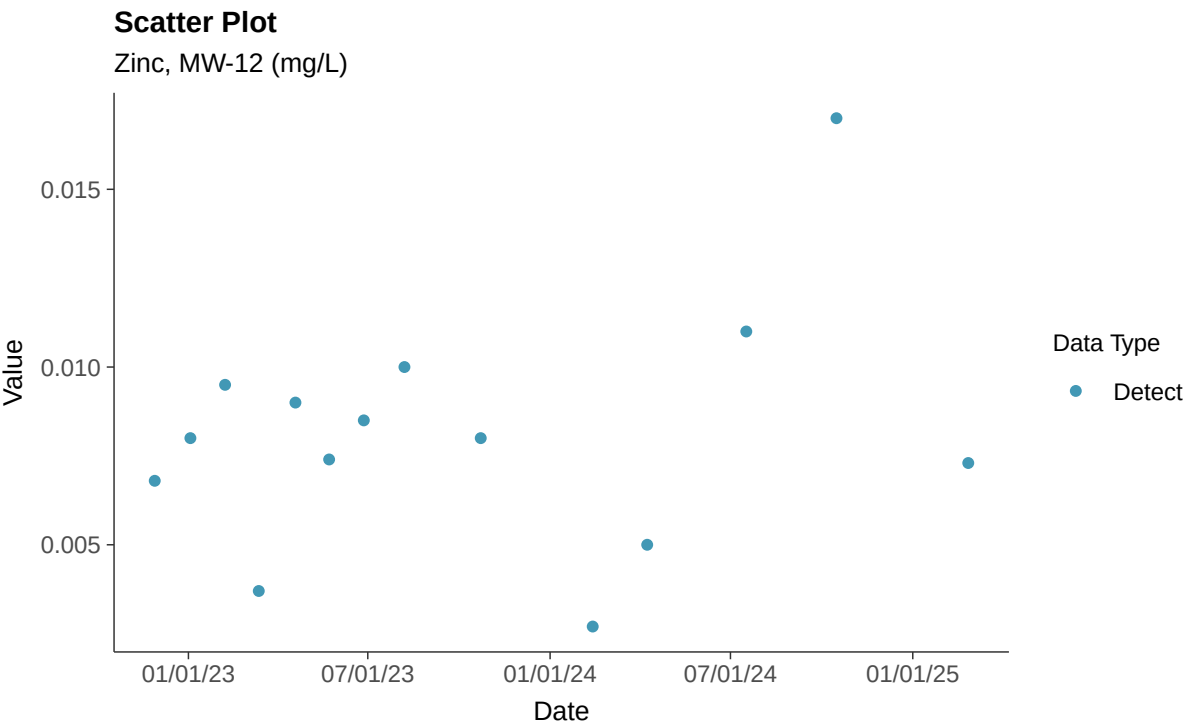


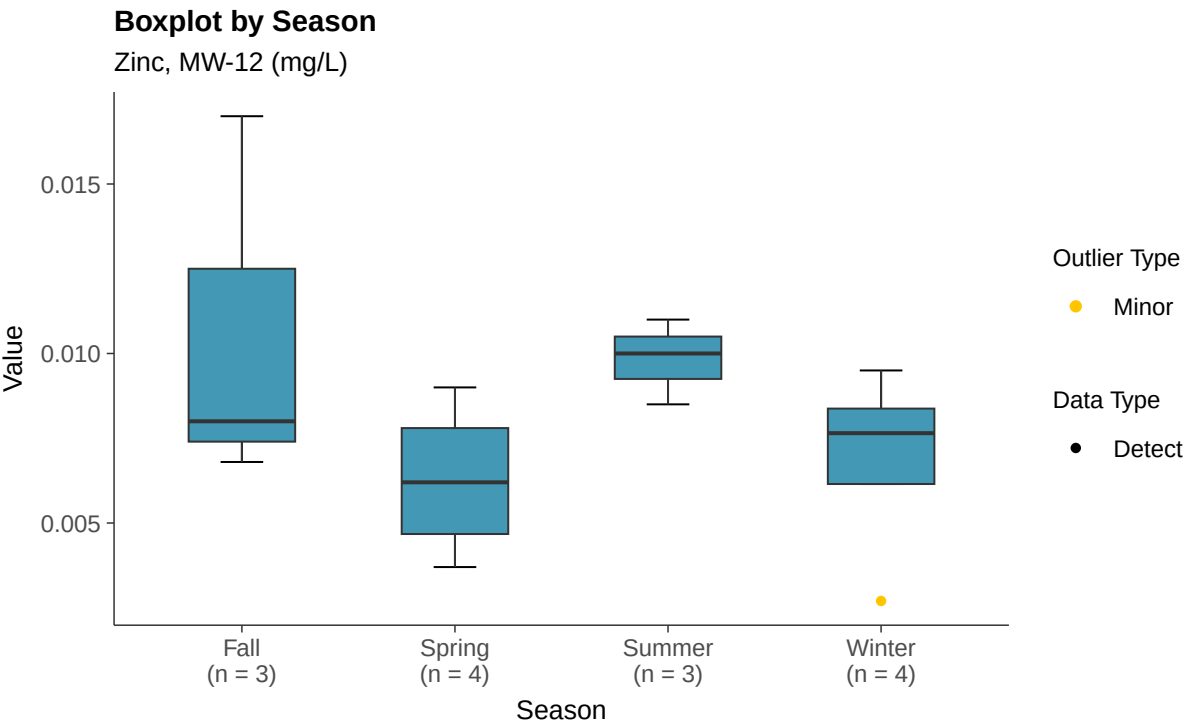
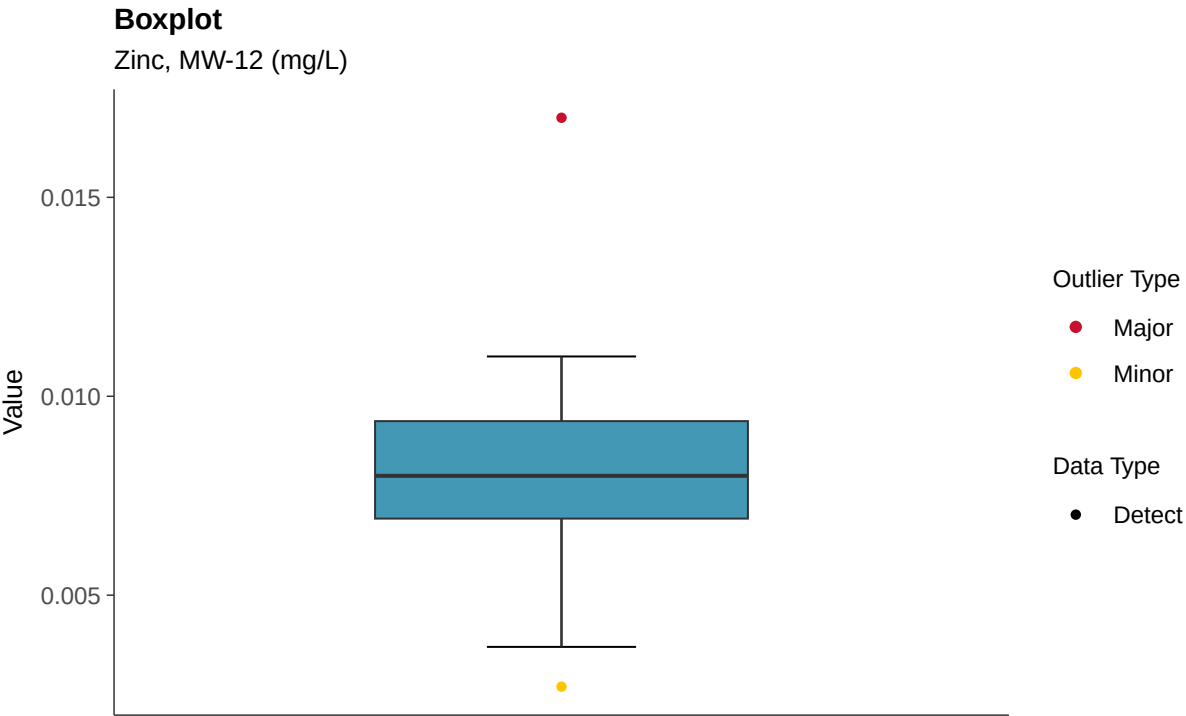


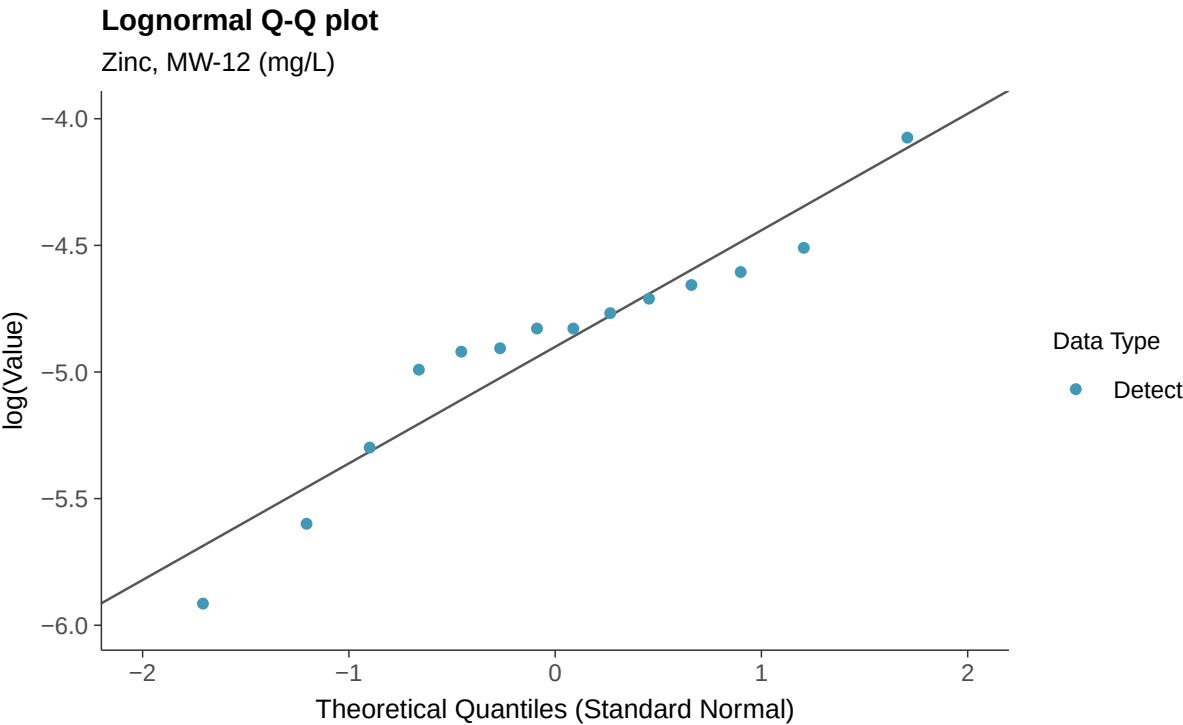
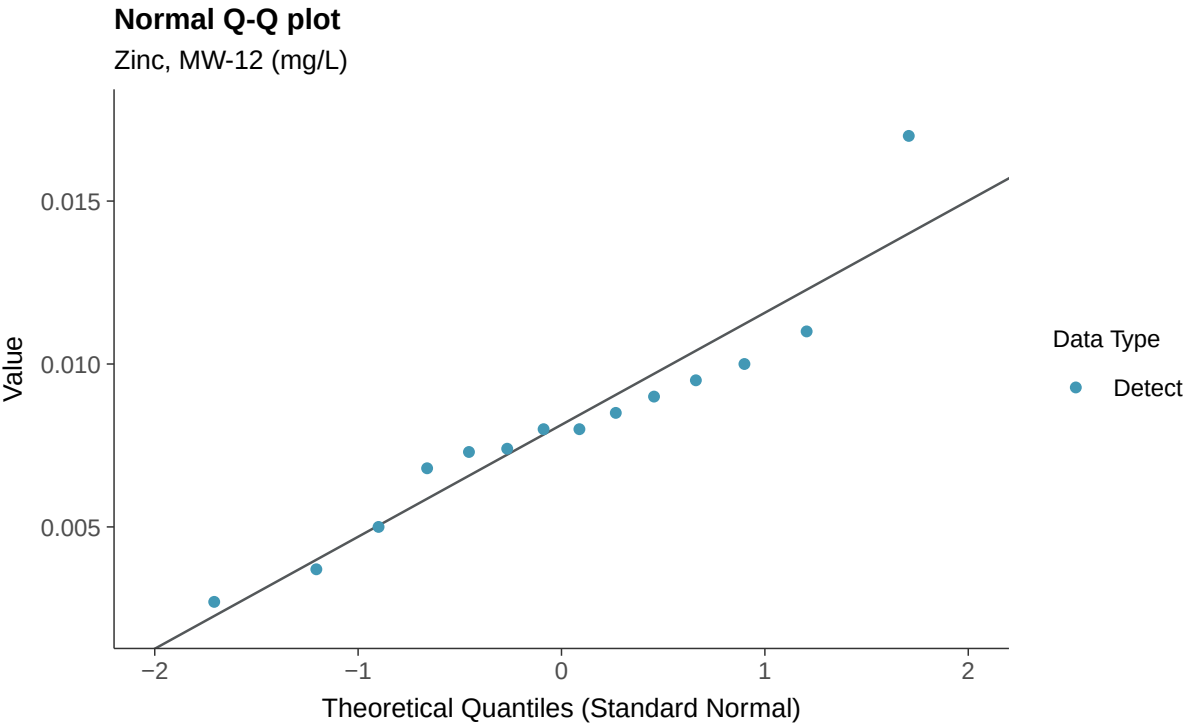


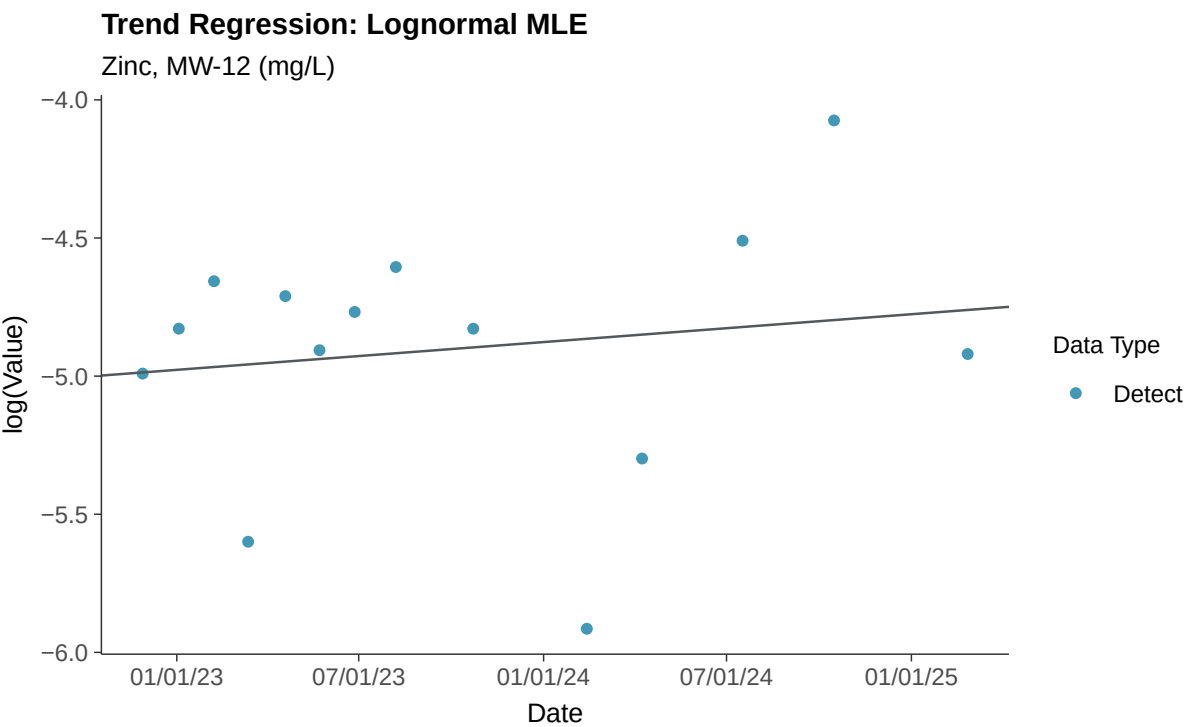
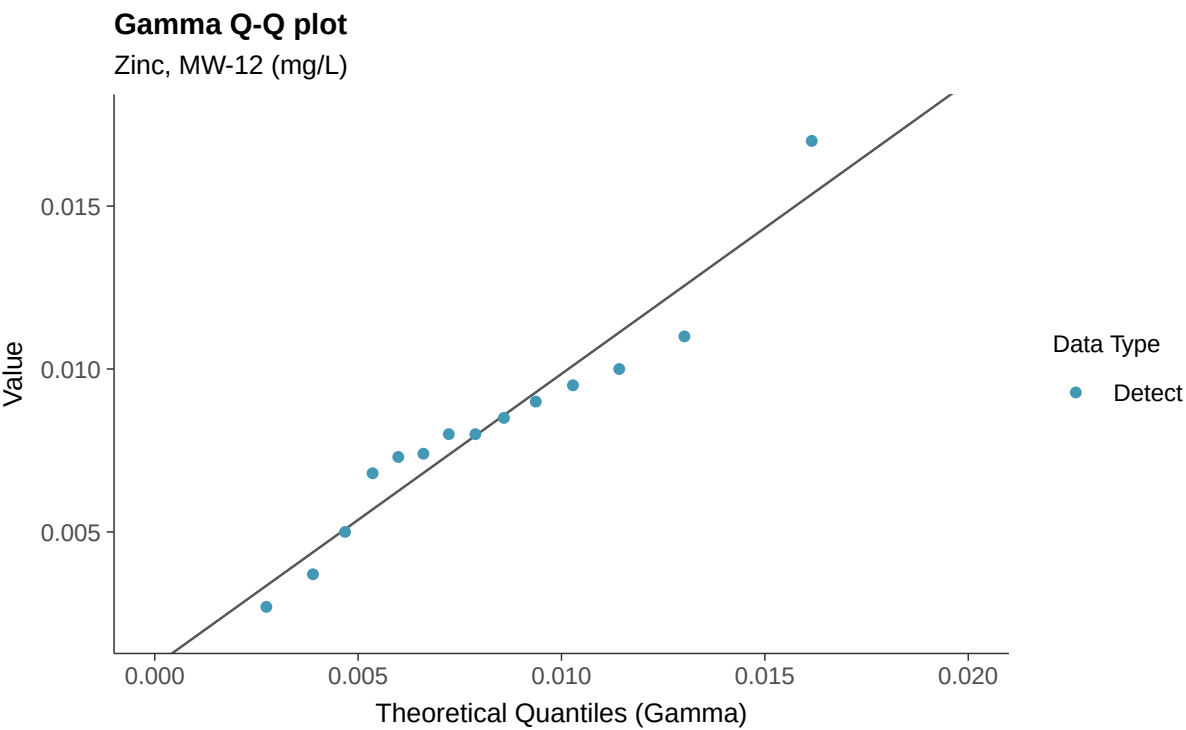
Part 115: Zinc, MW-12

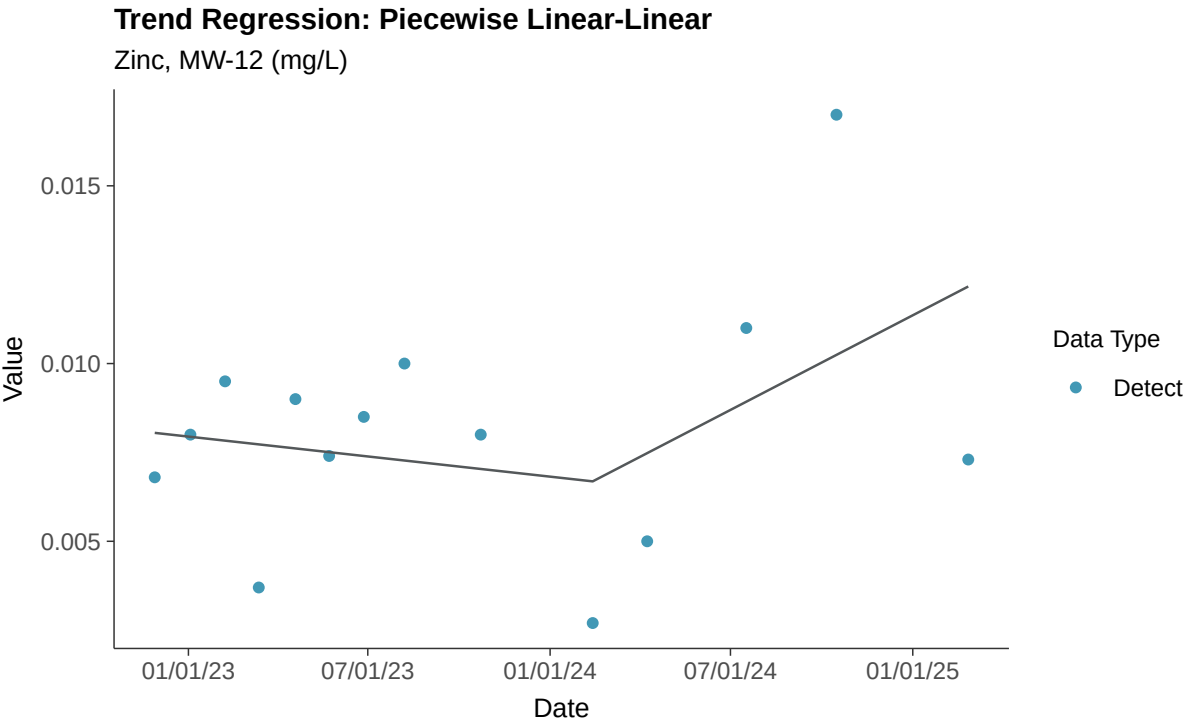
ID: 22_2_5_129







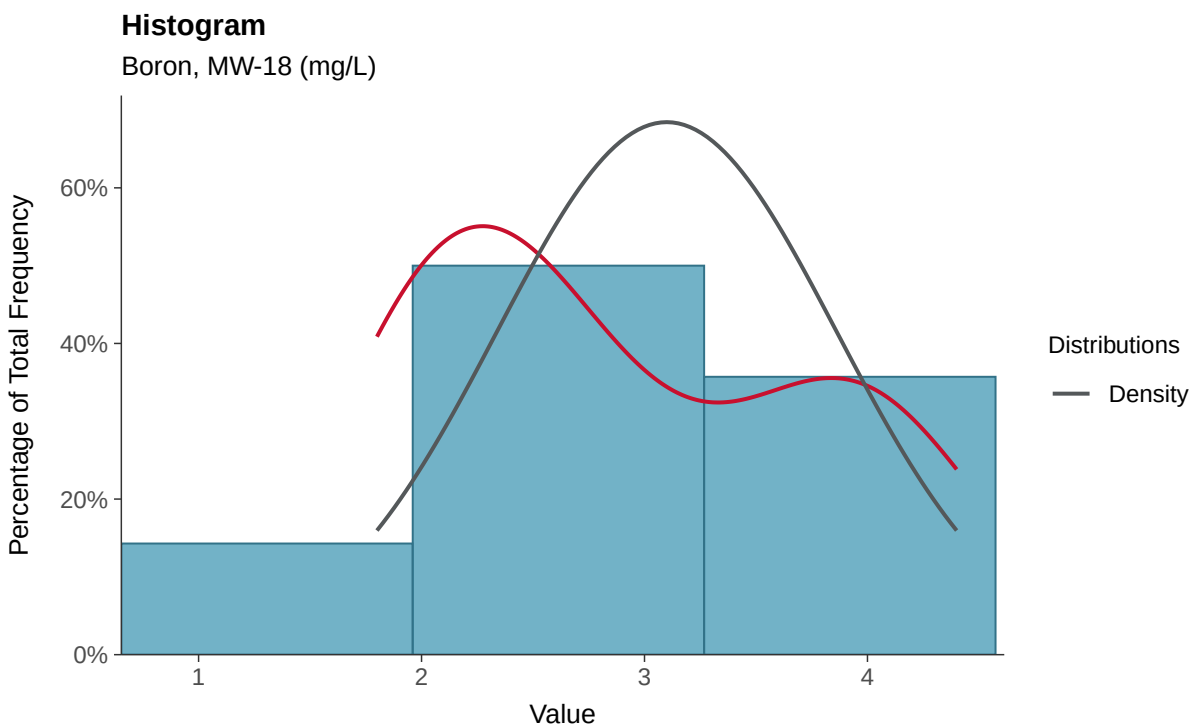
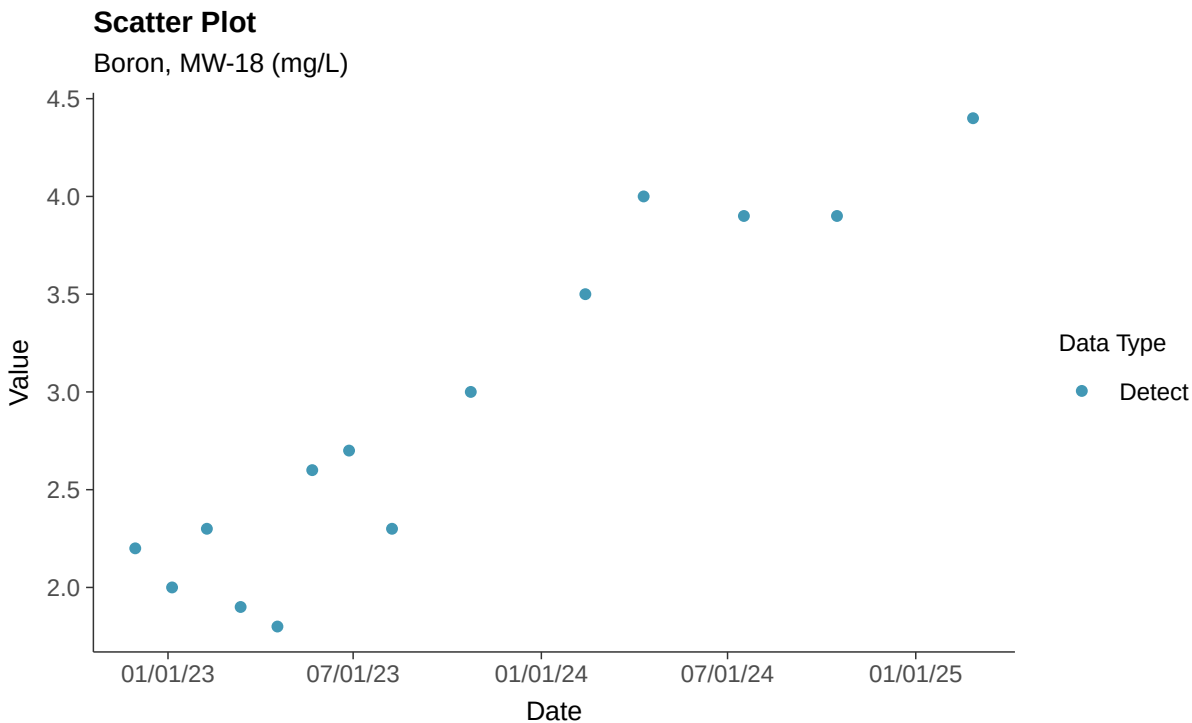


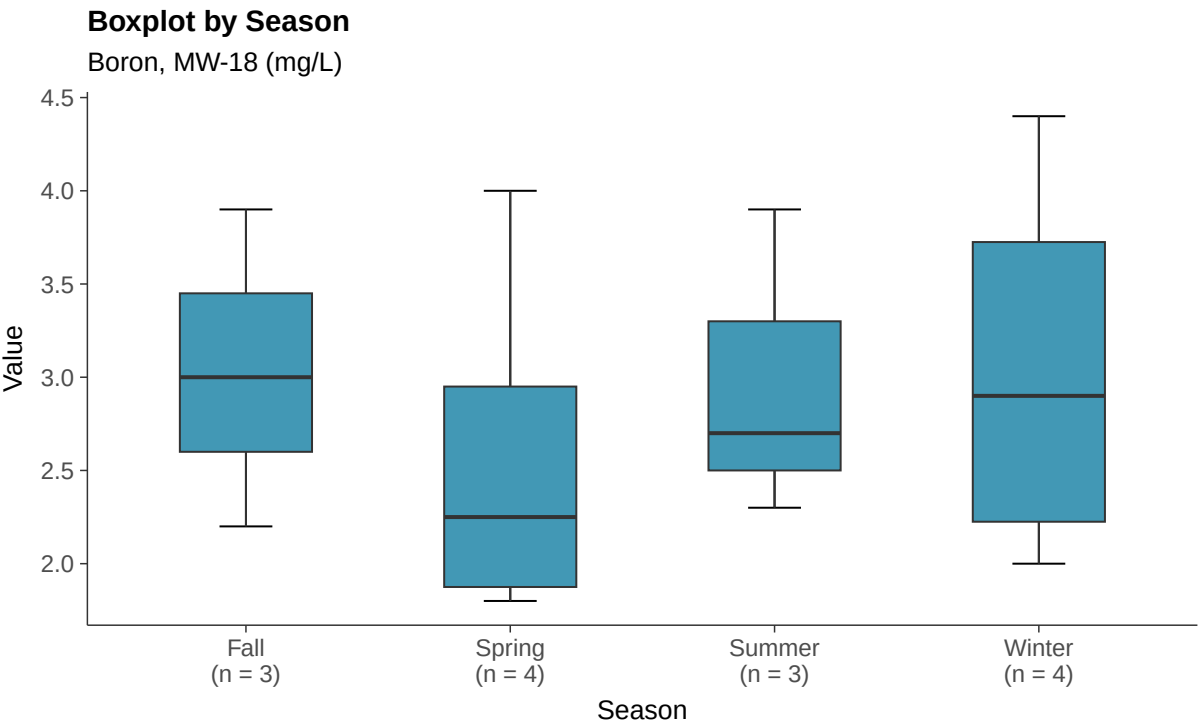
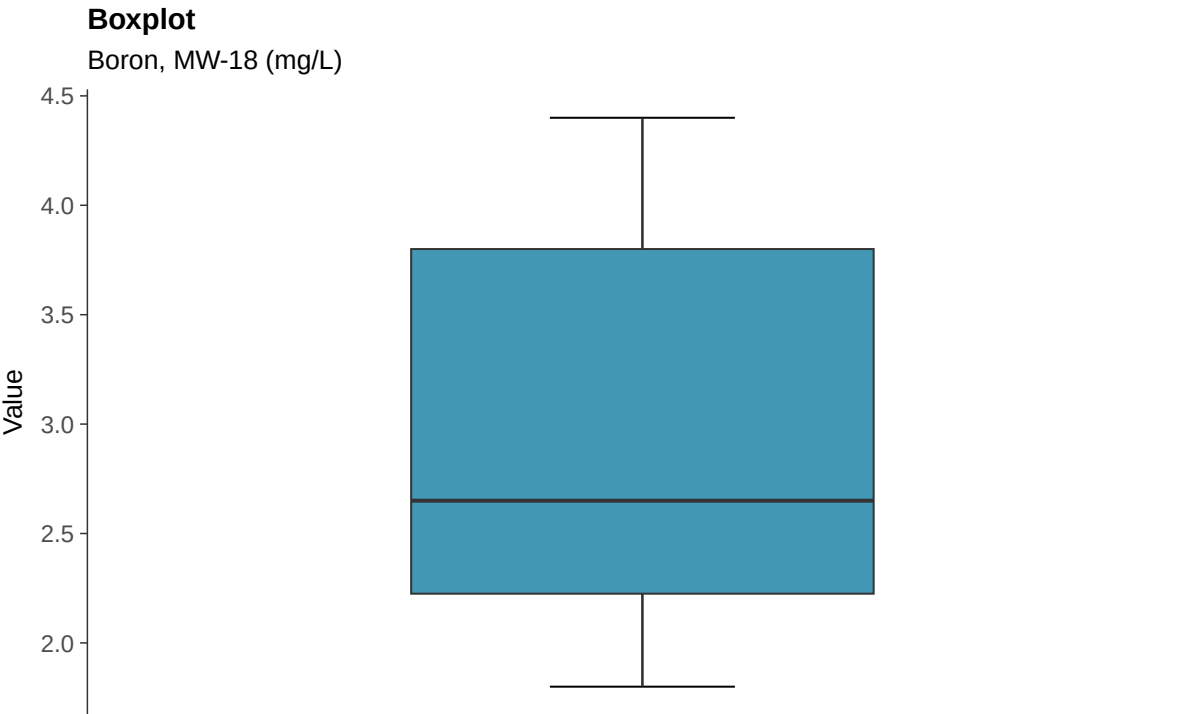


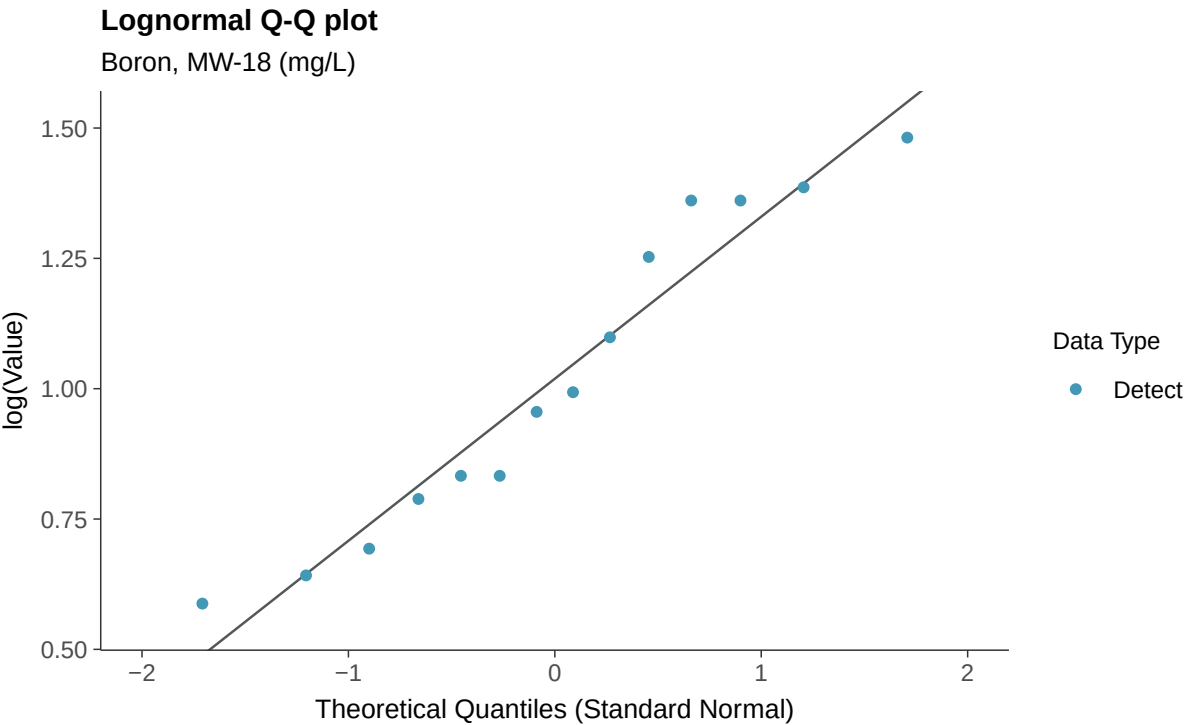
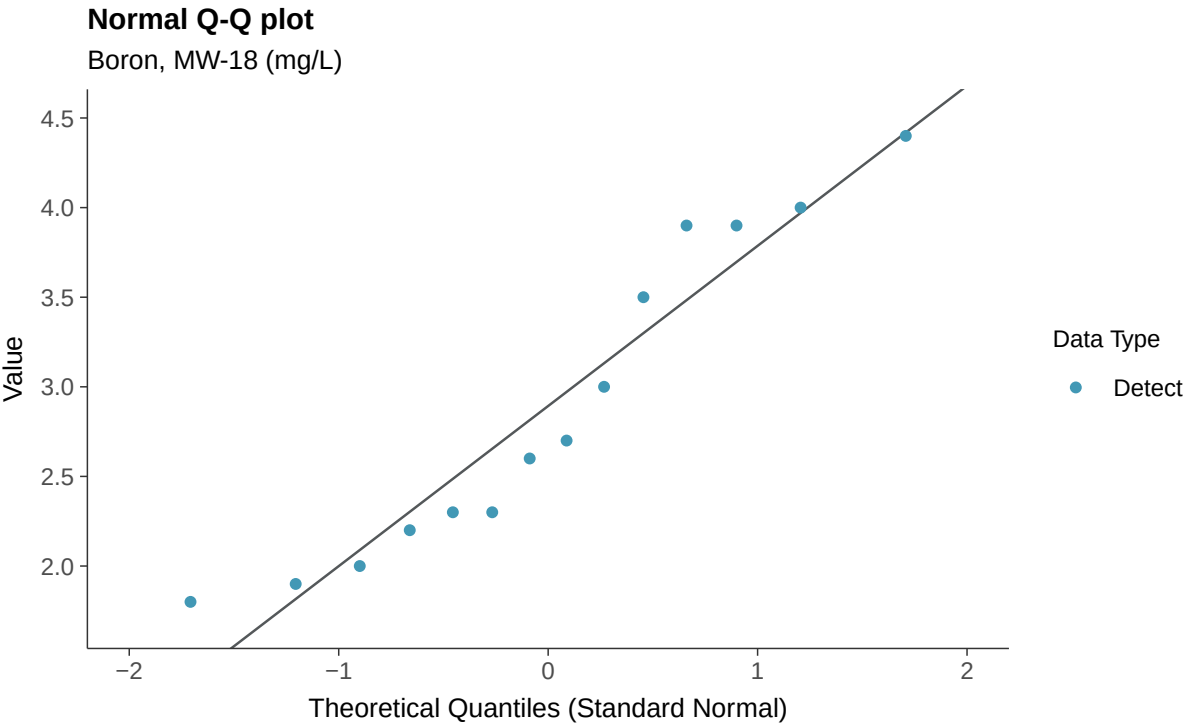


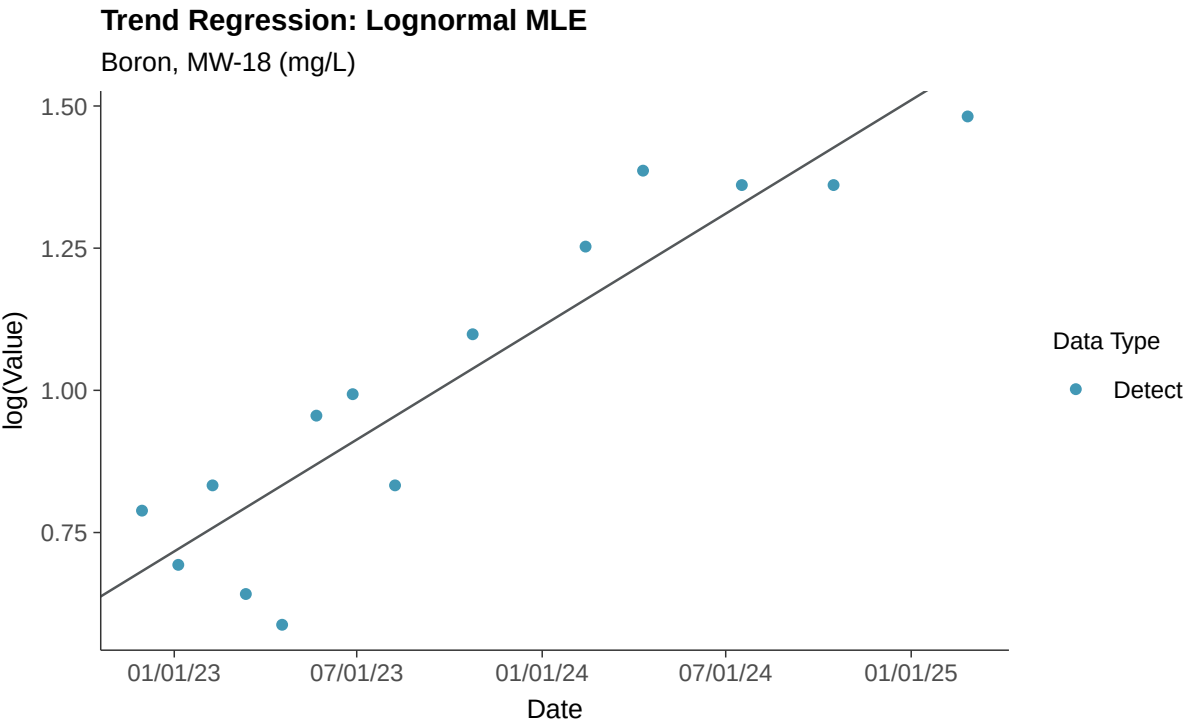
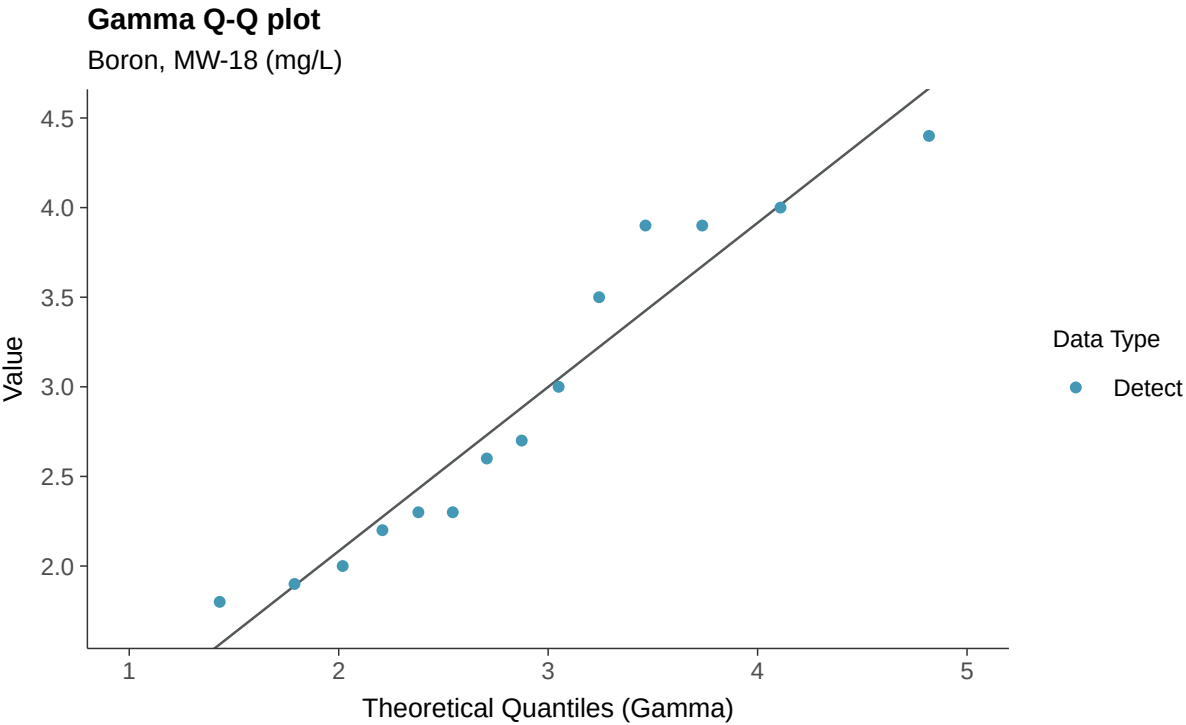
Appendix III: Boron, MW-18

ID: 28_1_3_105



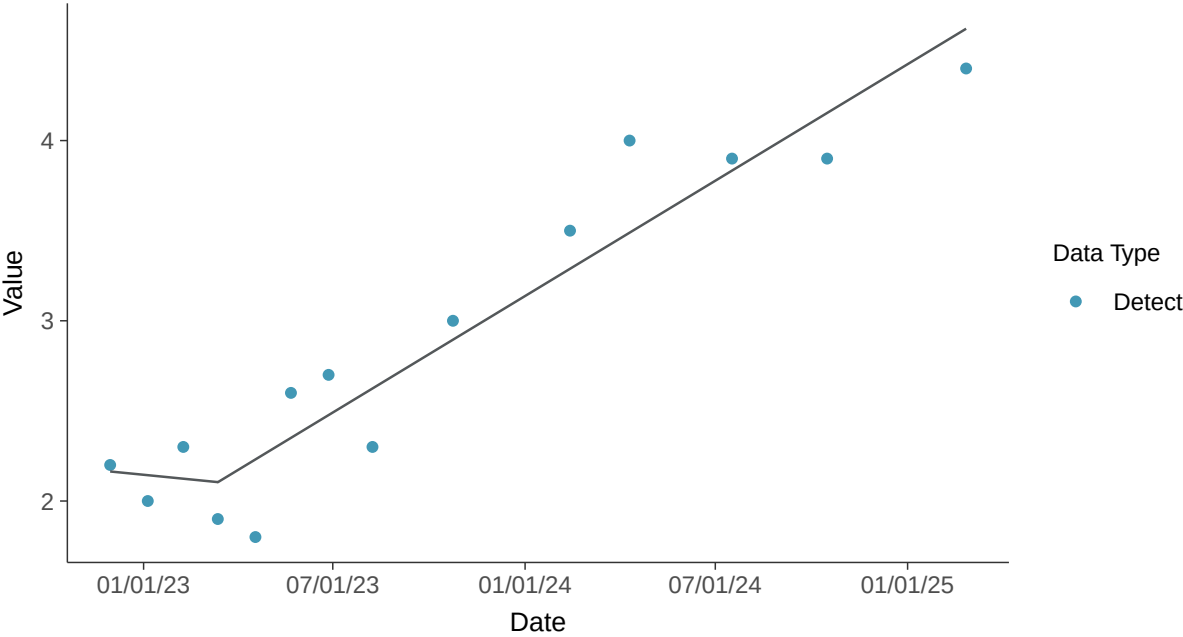




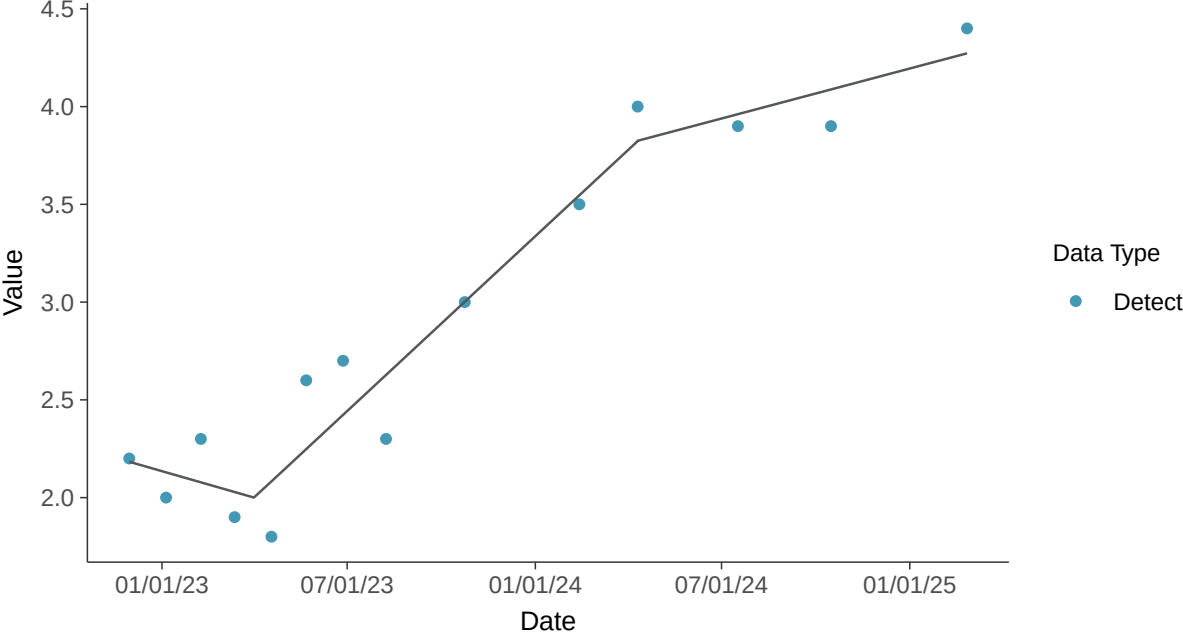




Trend Regression: Piecewise Linear-Linear
Boron, MW-18 (mg/L)



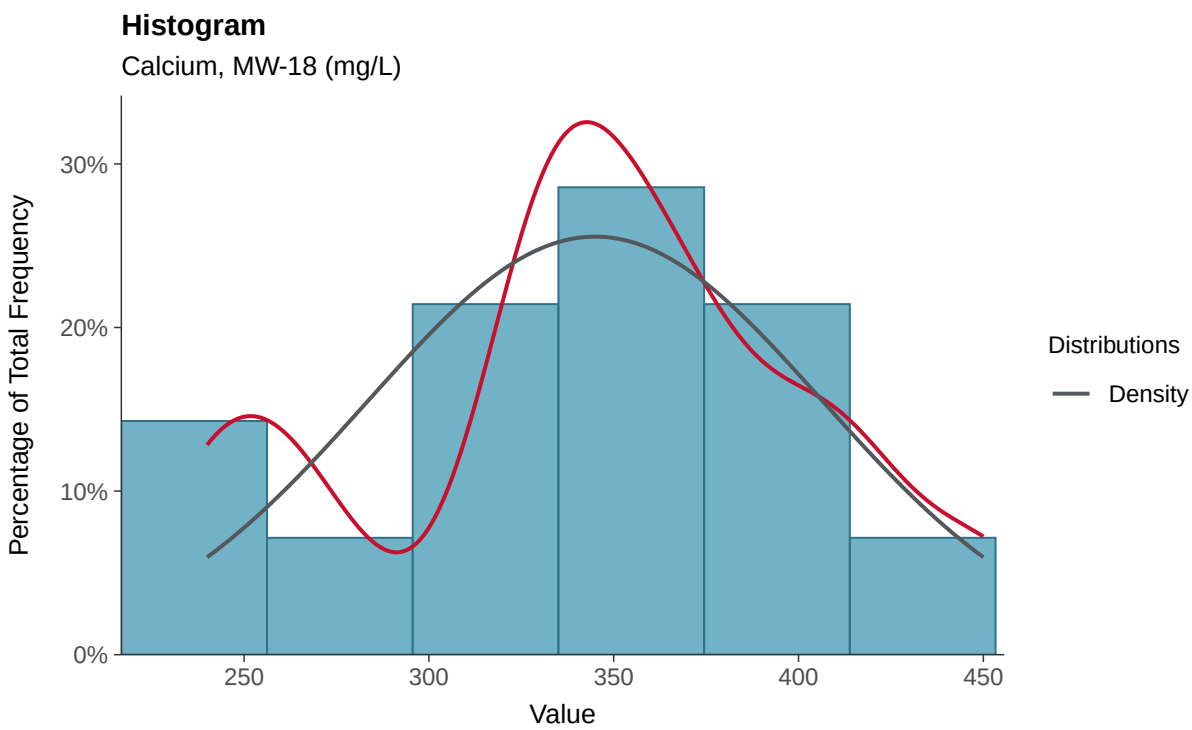
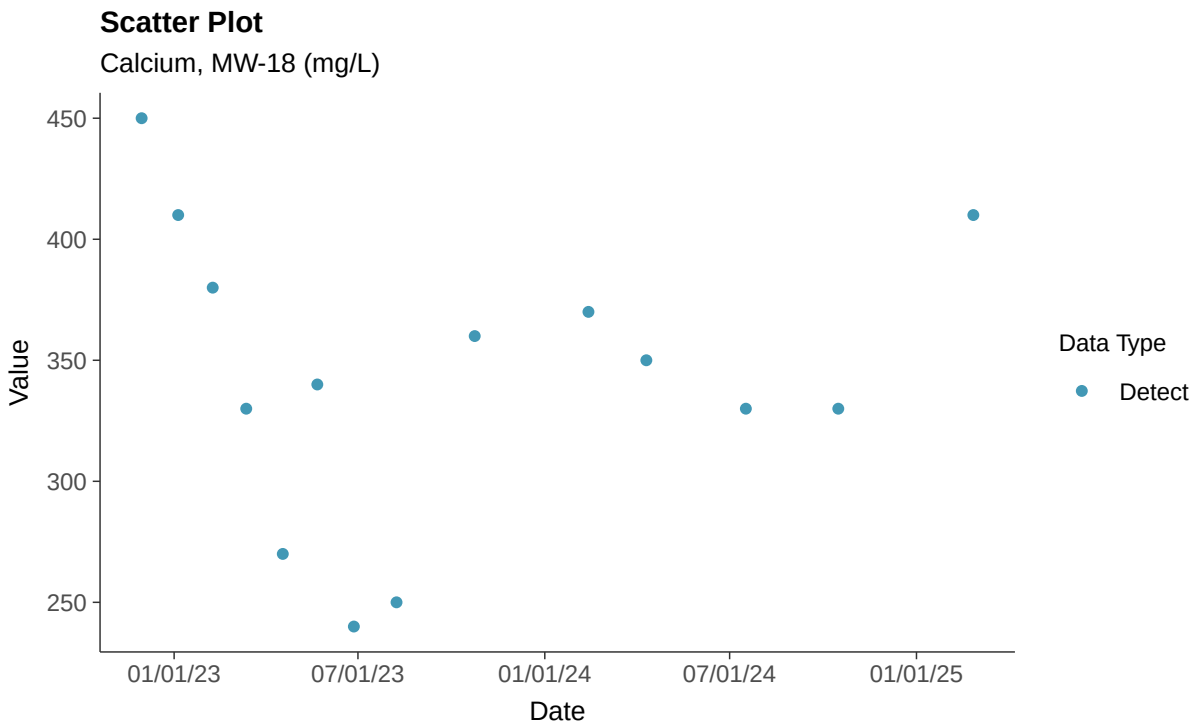
Trend Regression: Piecewise Linear-Linear-Linear
Boron, MW-18 (mg/L)

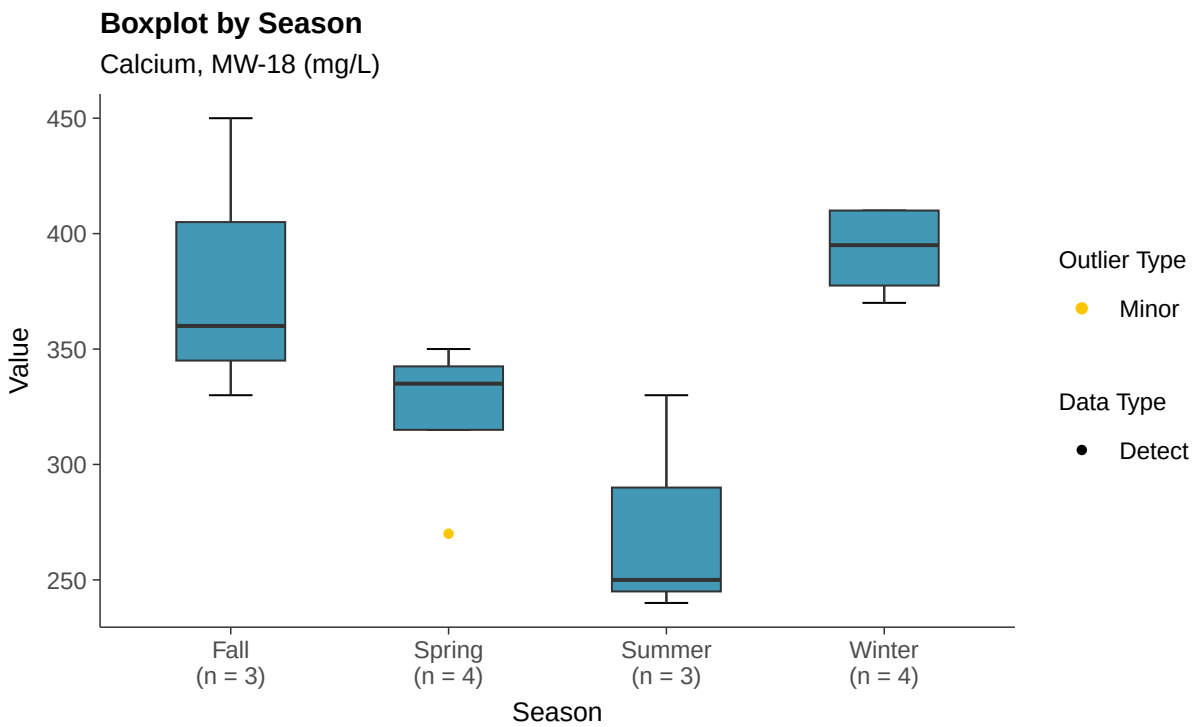
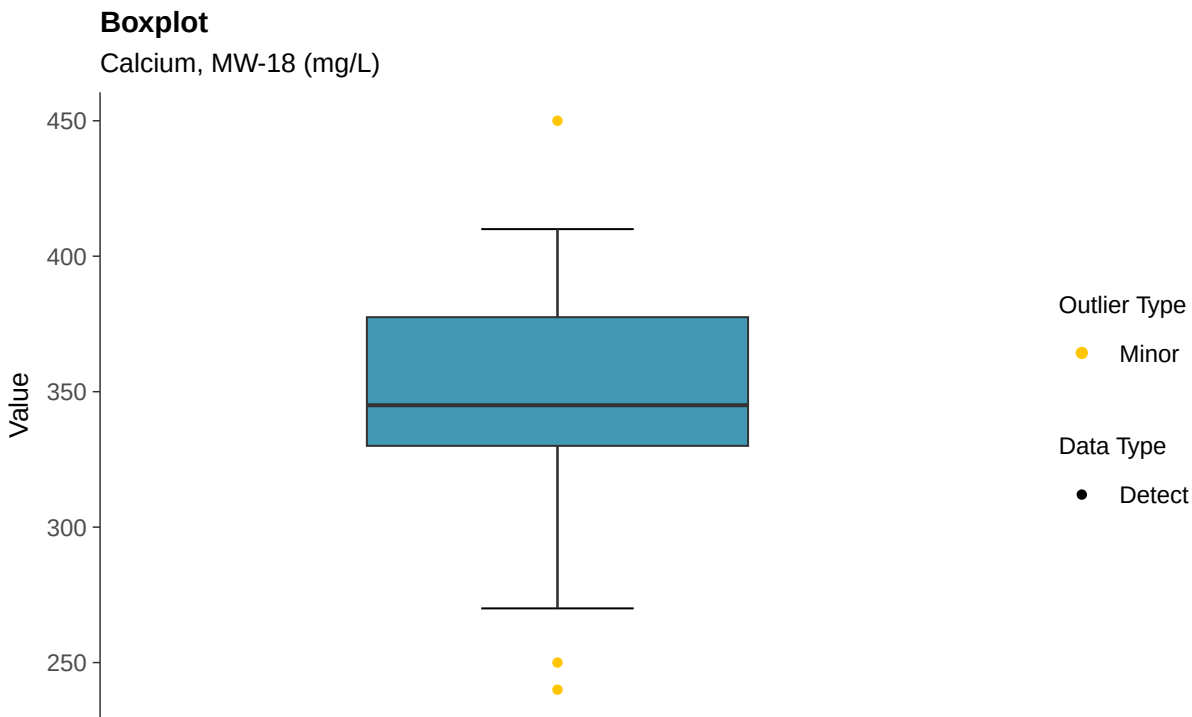


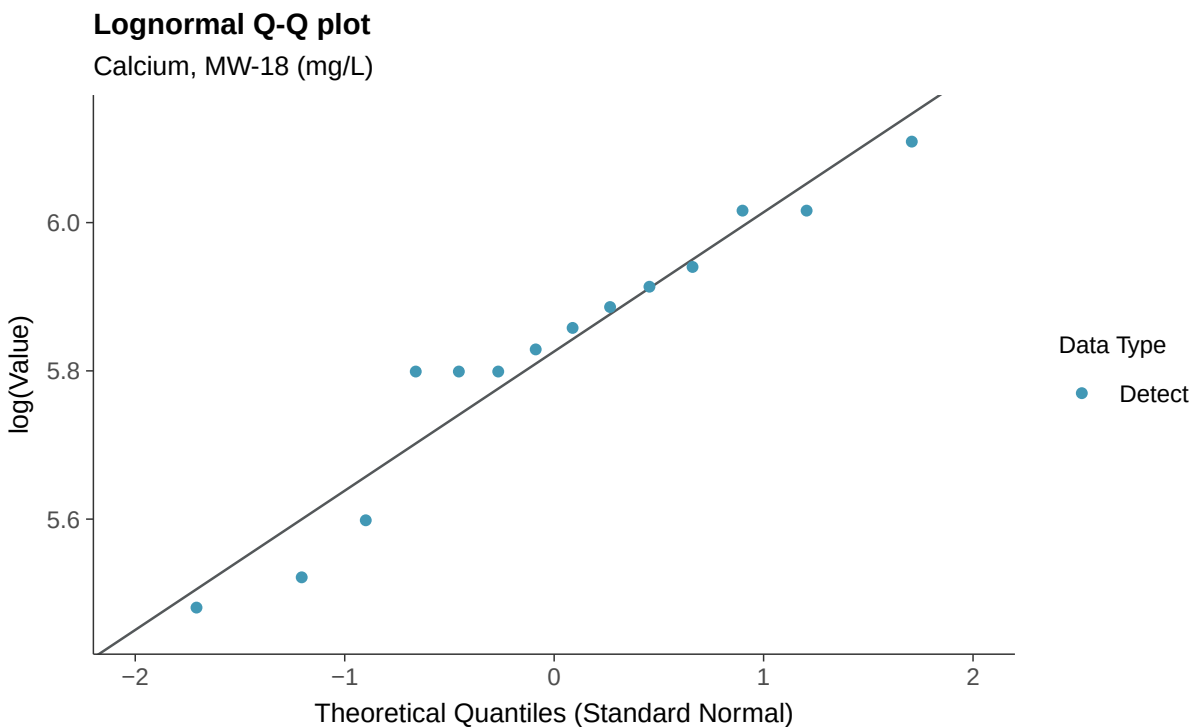
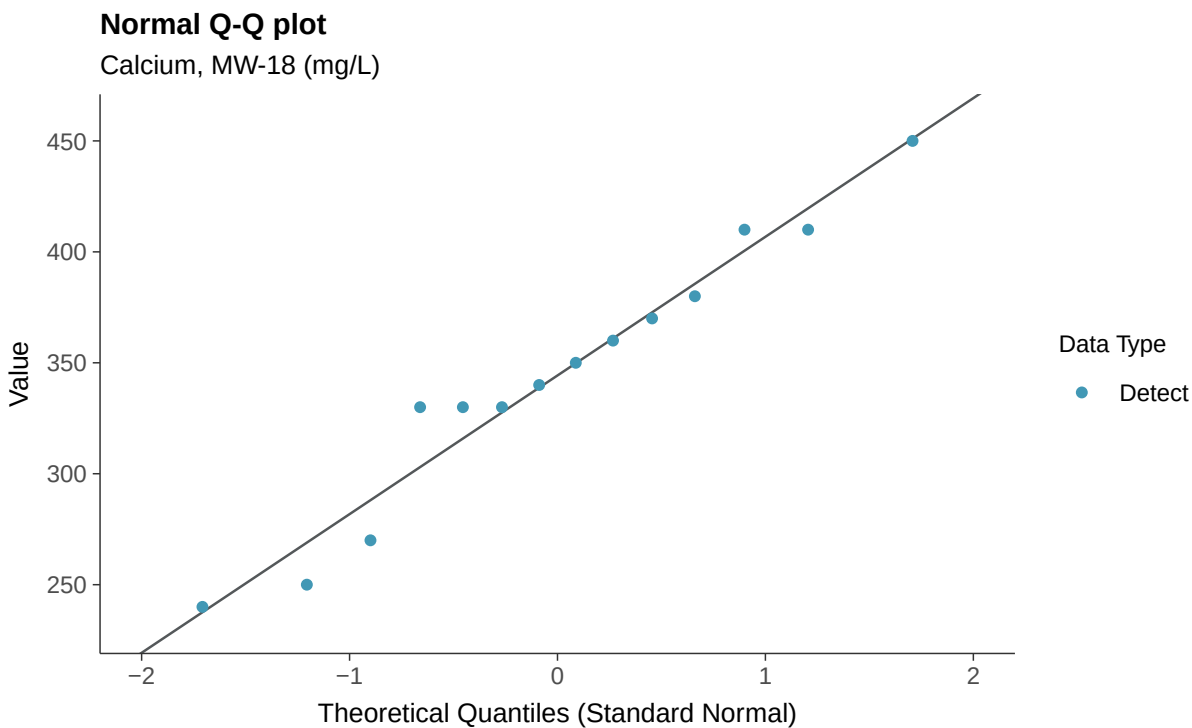


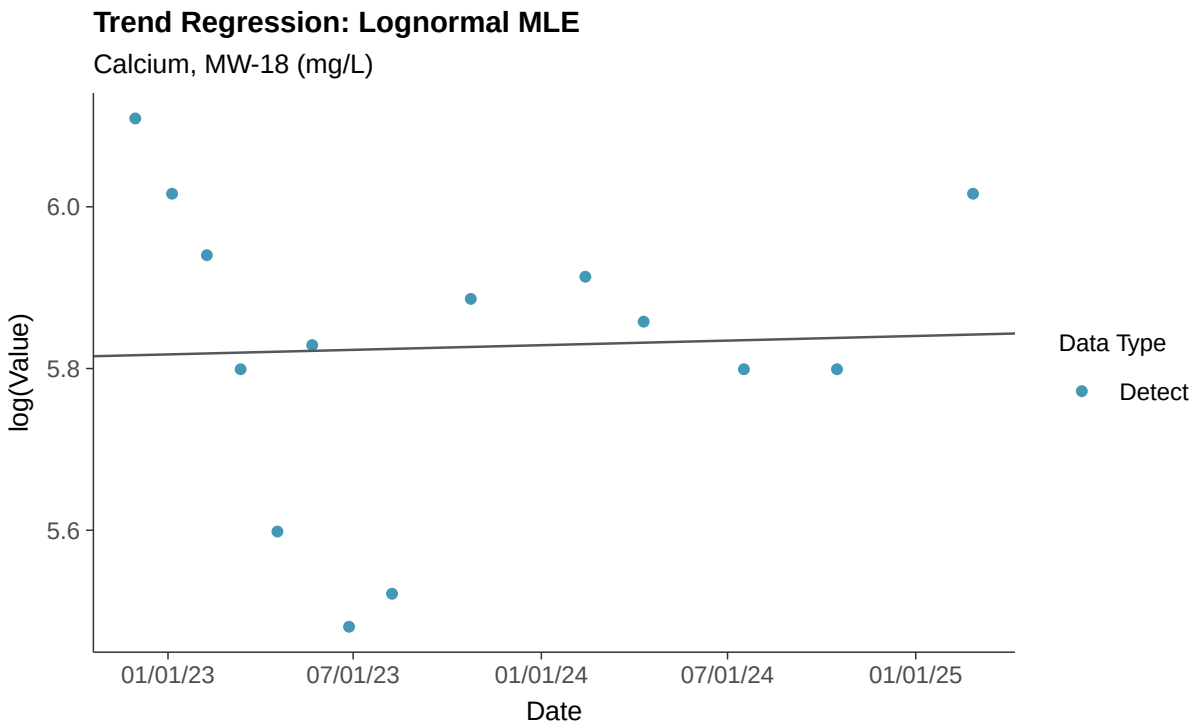
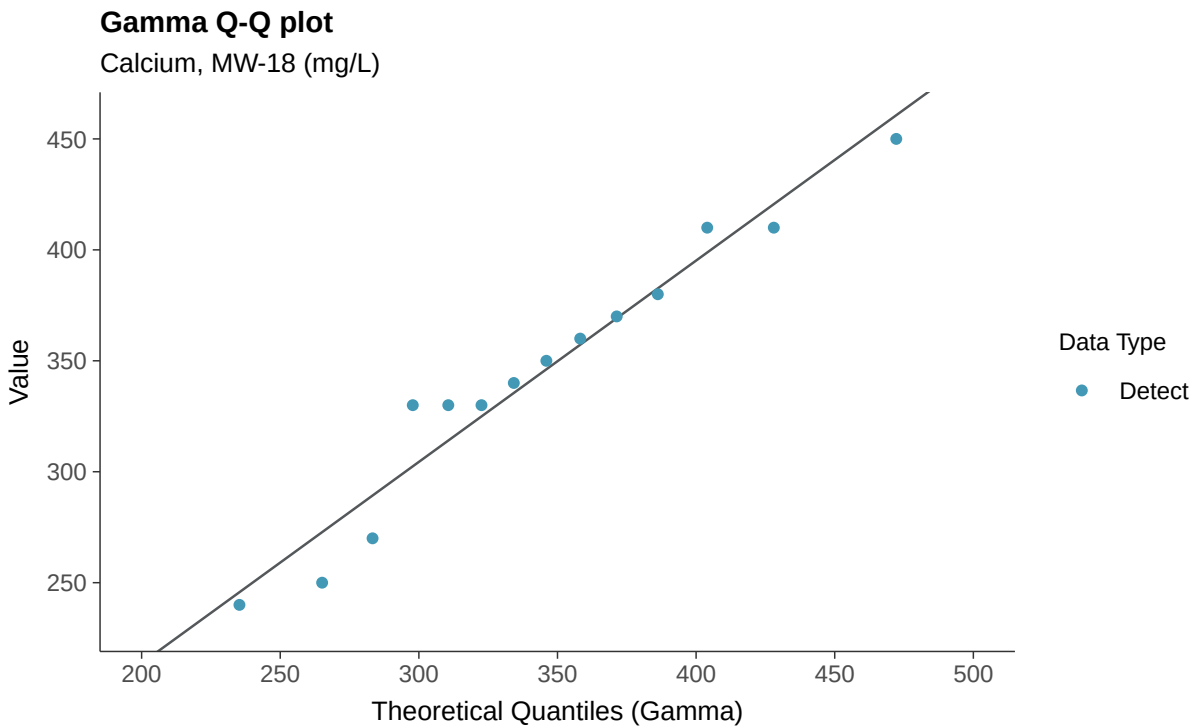
Appendix III: Calcium, MW-18

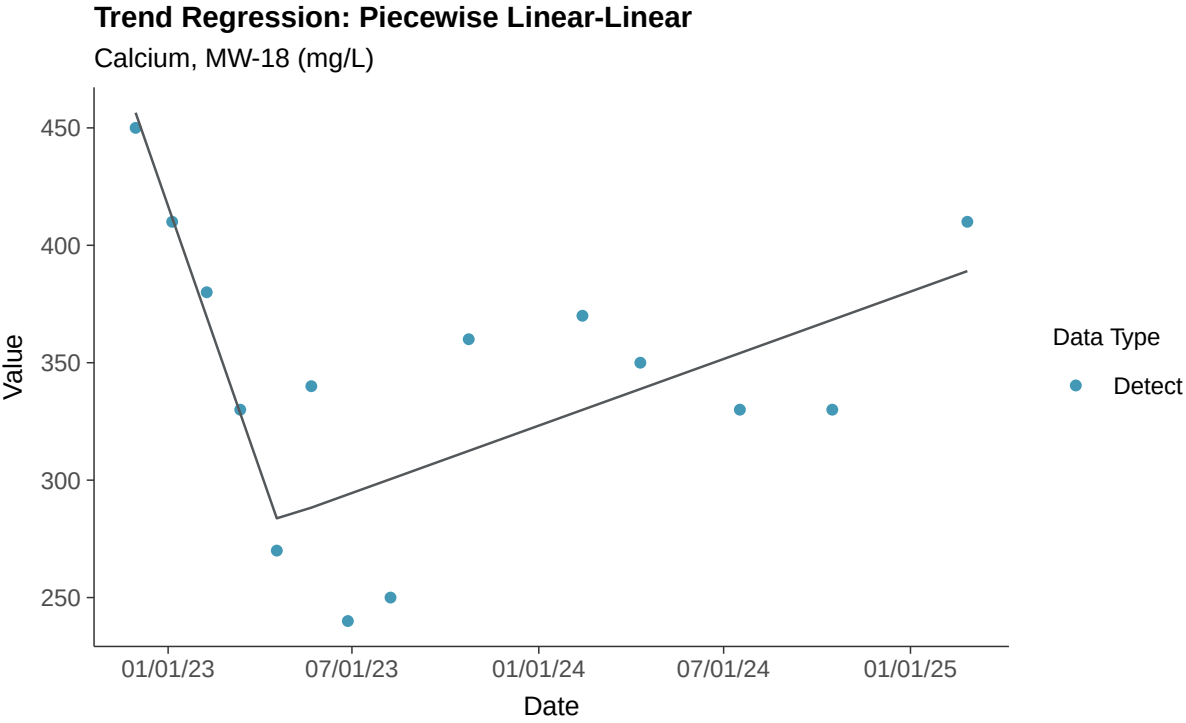
ID: 28_1_3_107







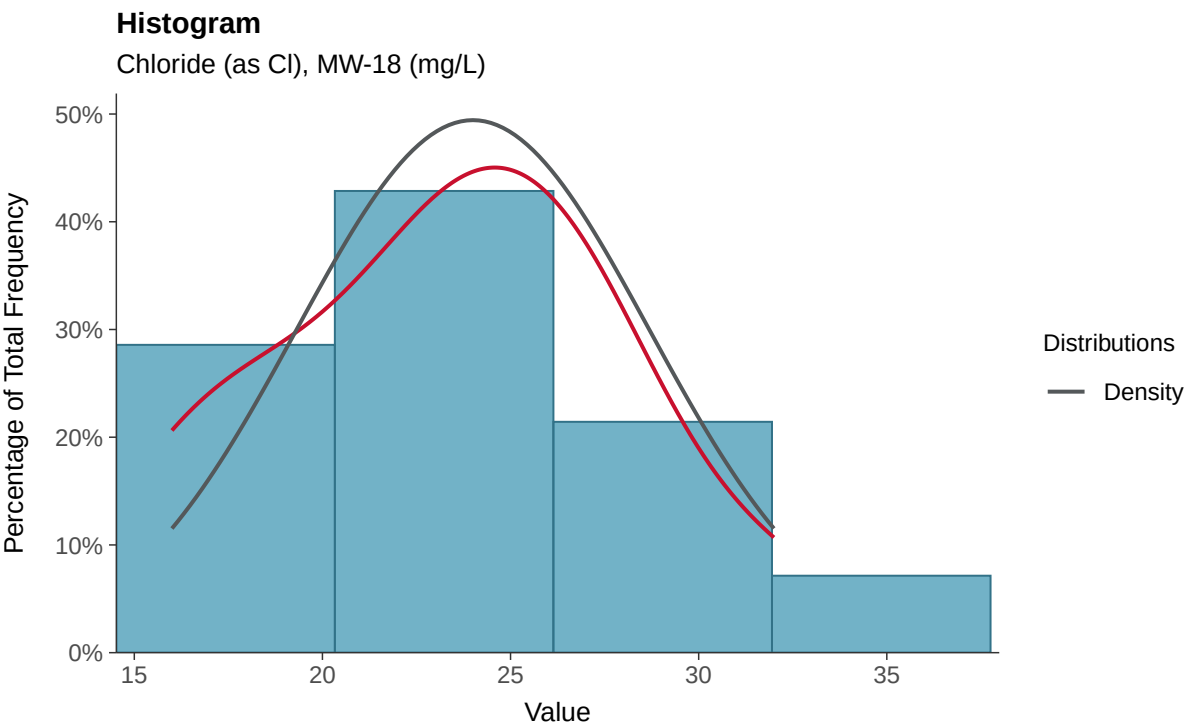
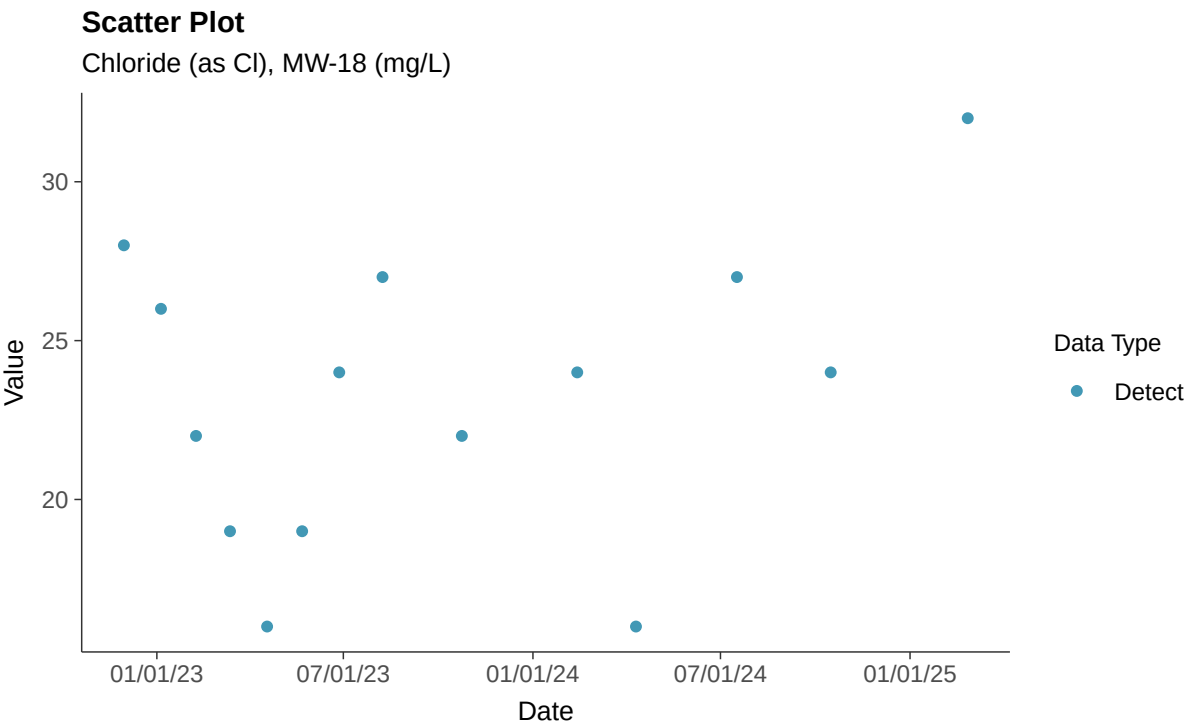


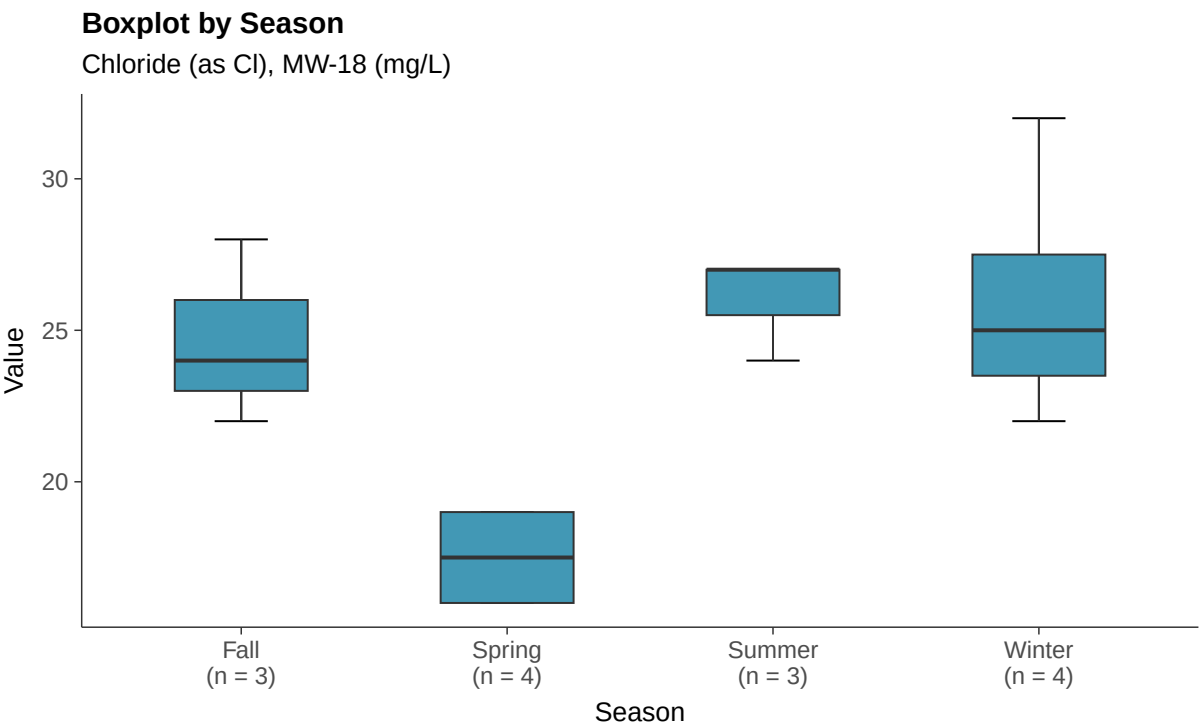
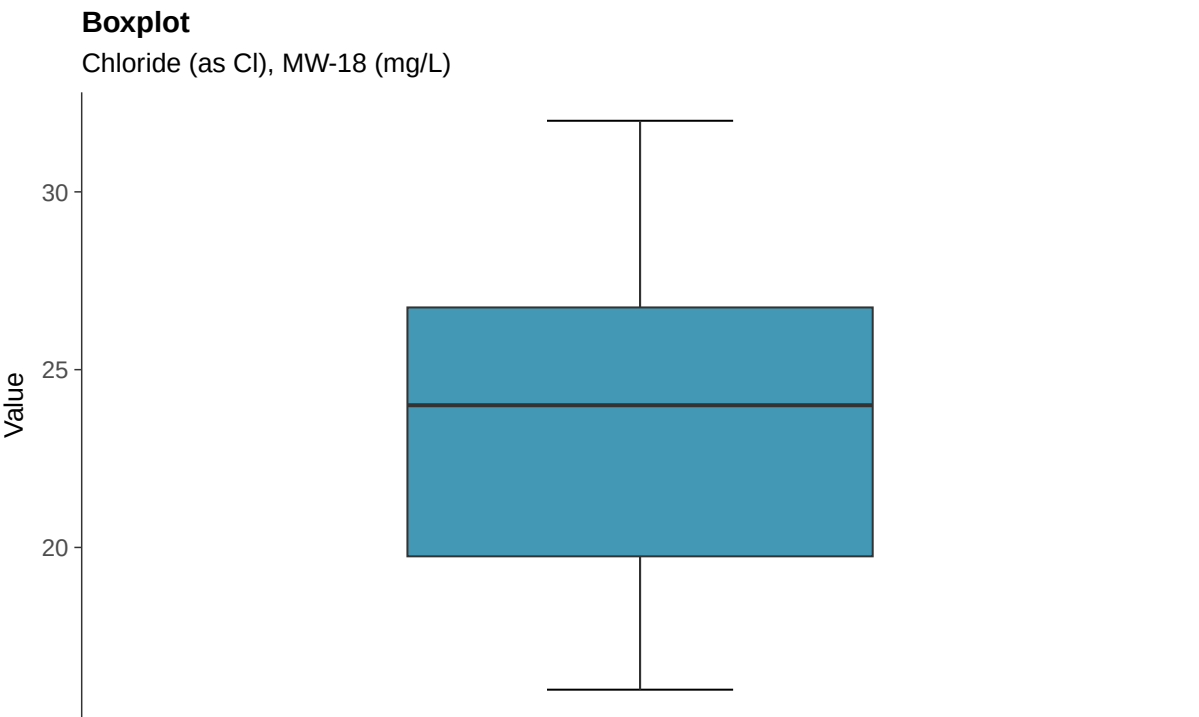


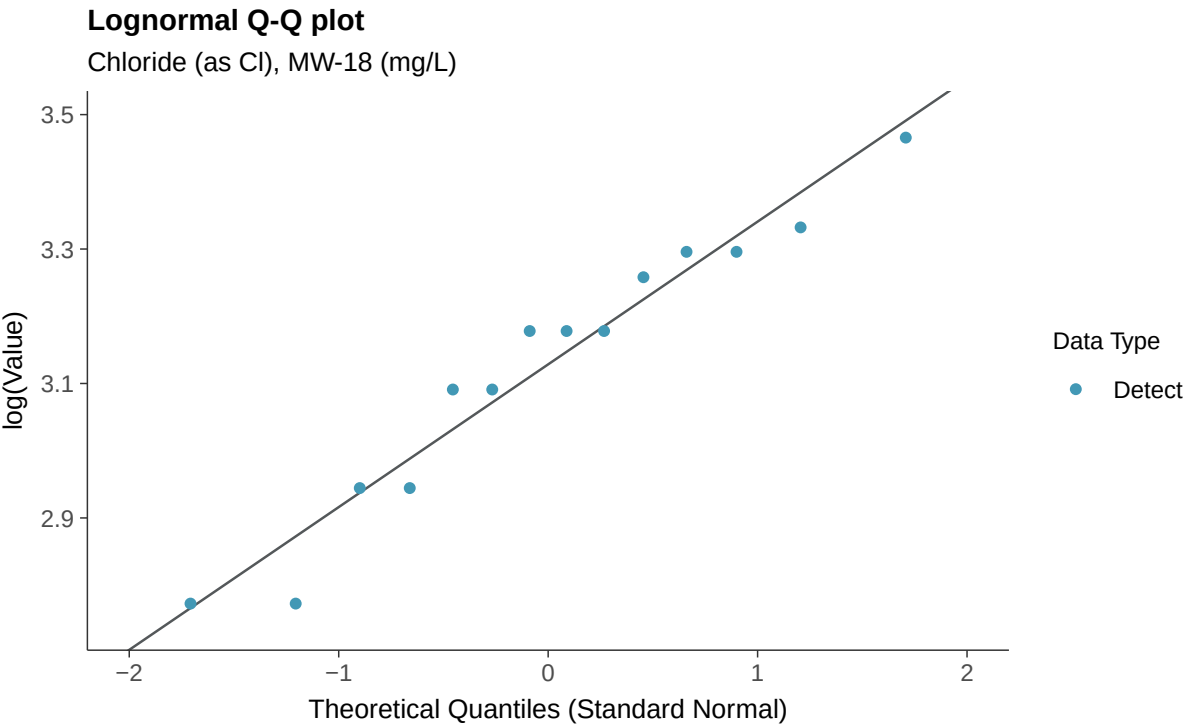
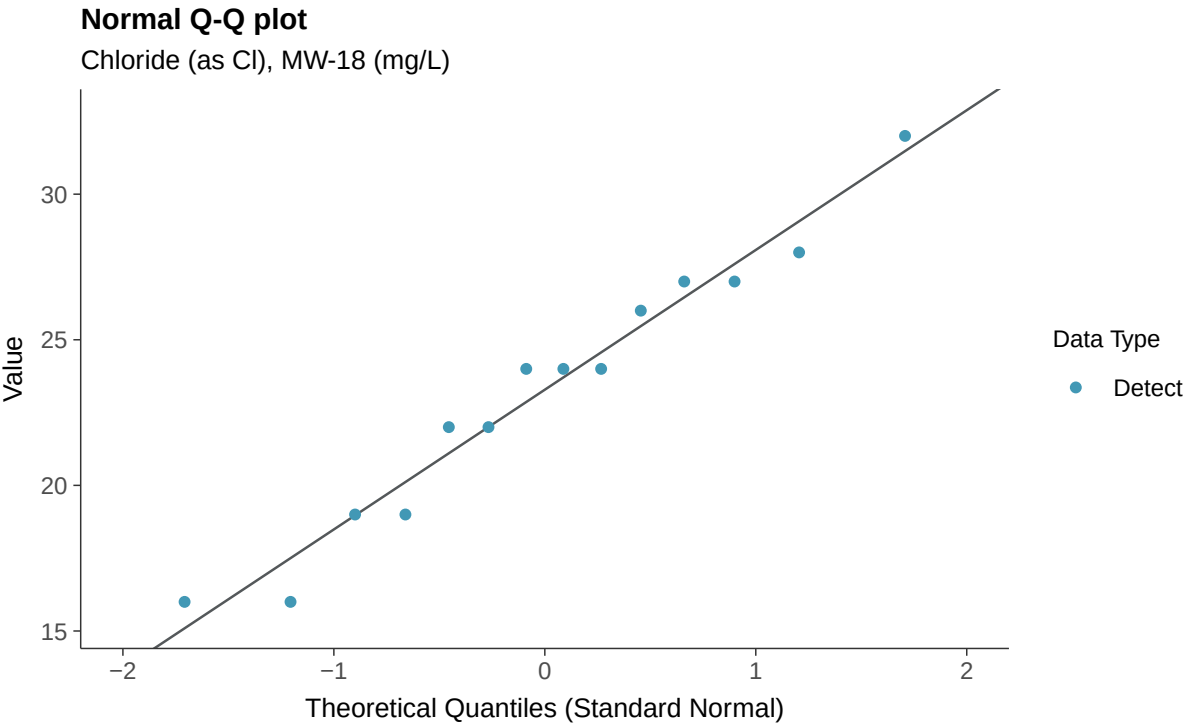


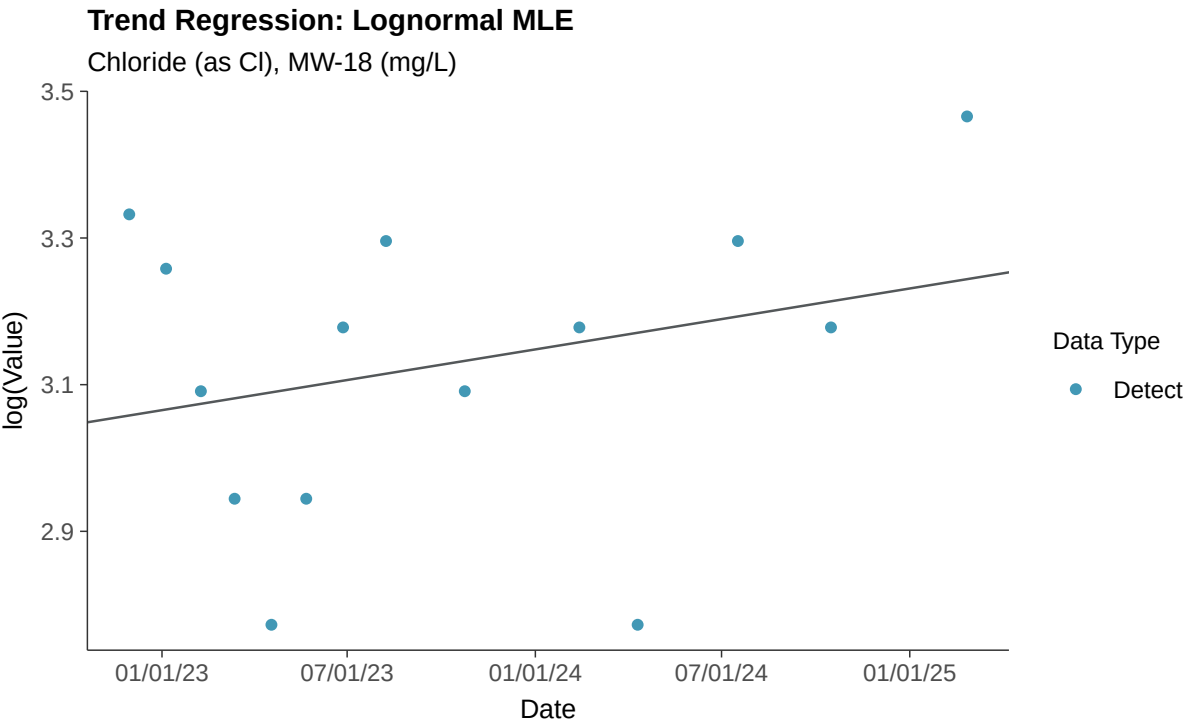
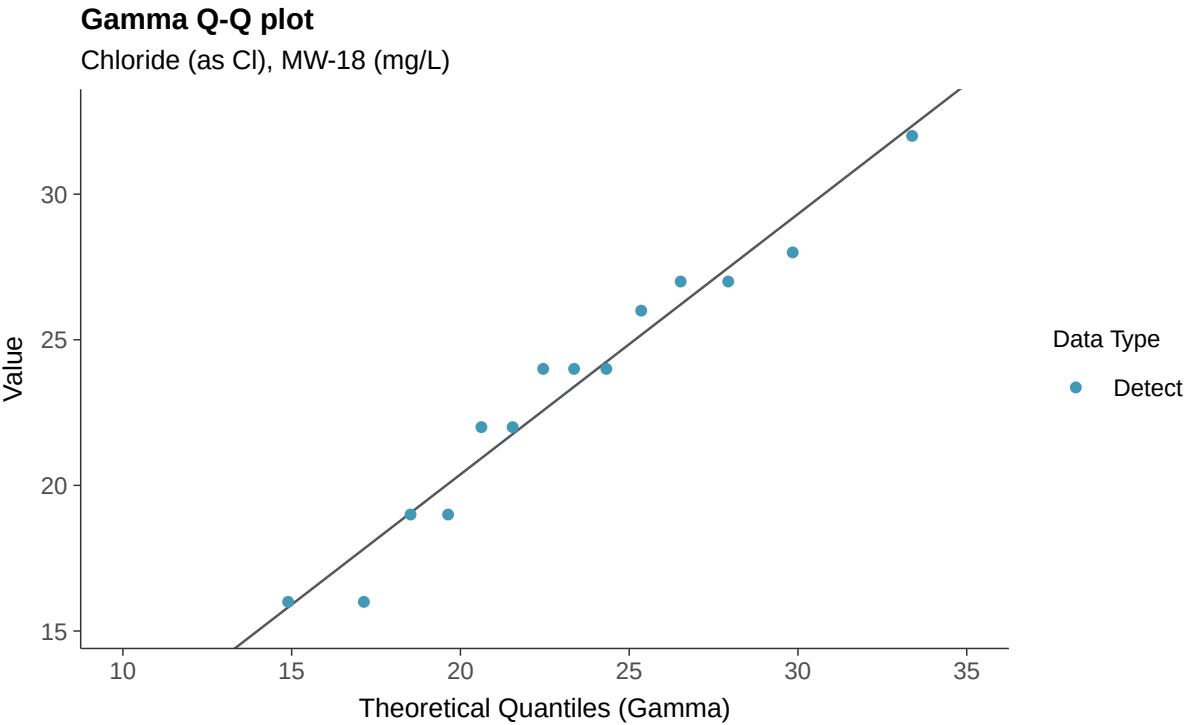
Appendix III: Chloride (as Cl), MW-18

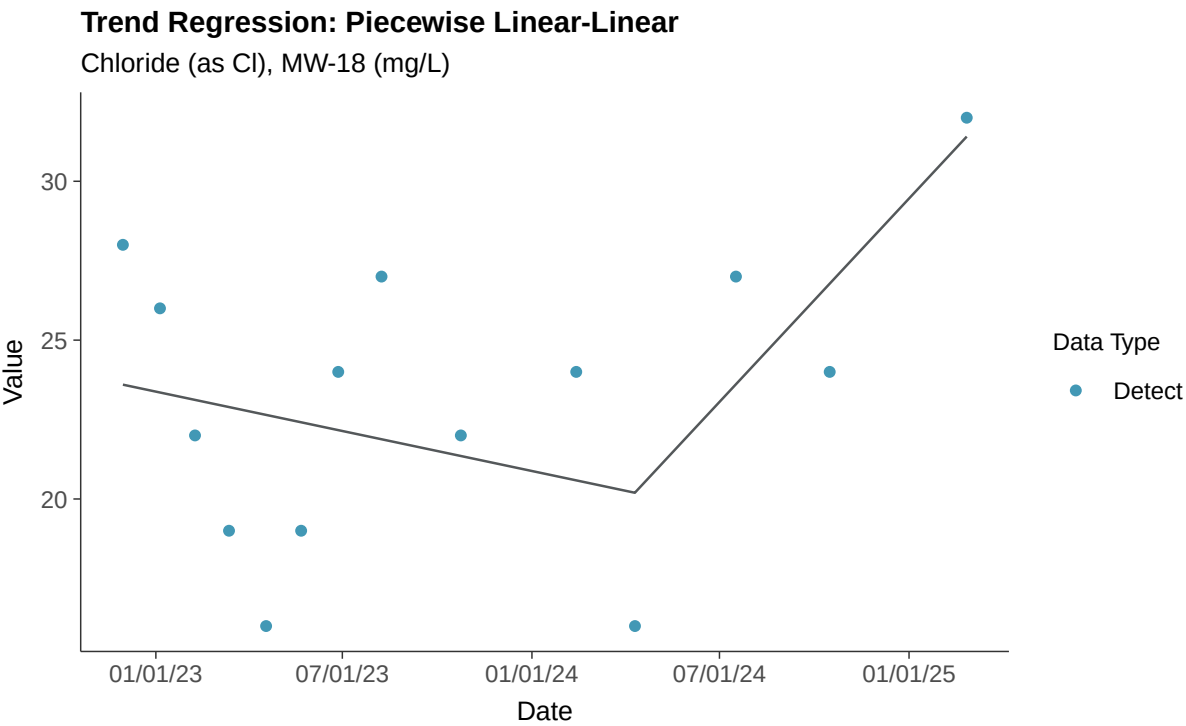
ID: 28_1_3_108







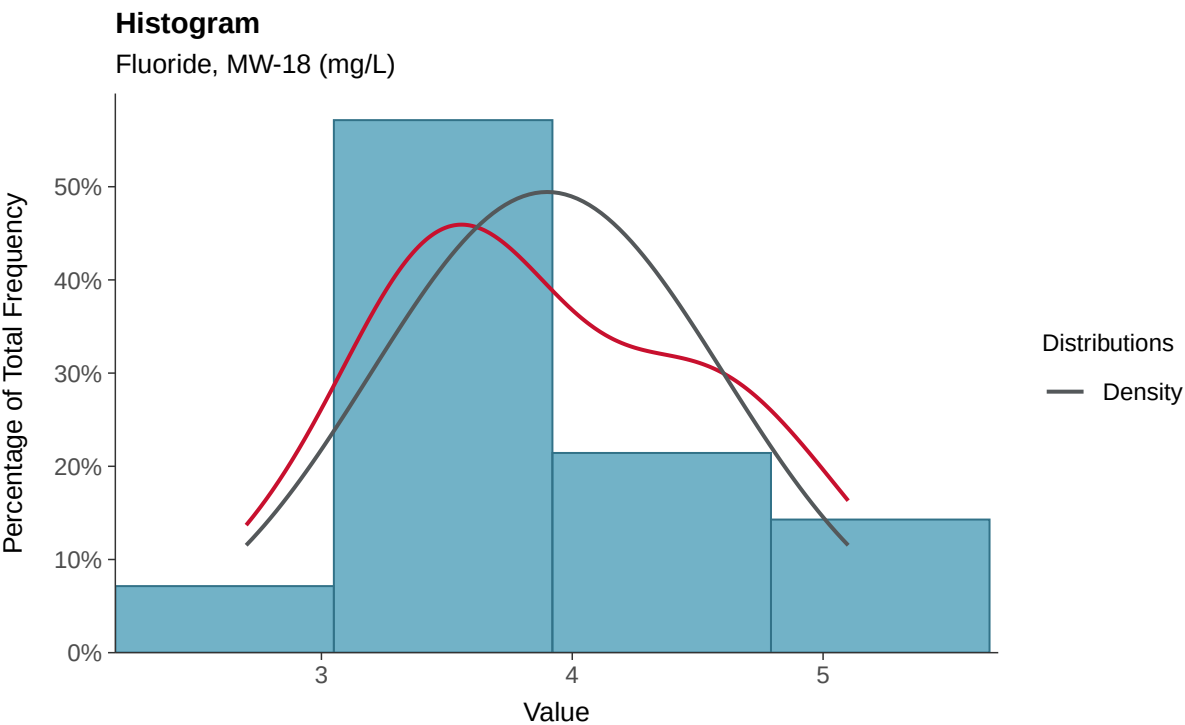
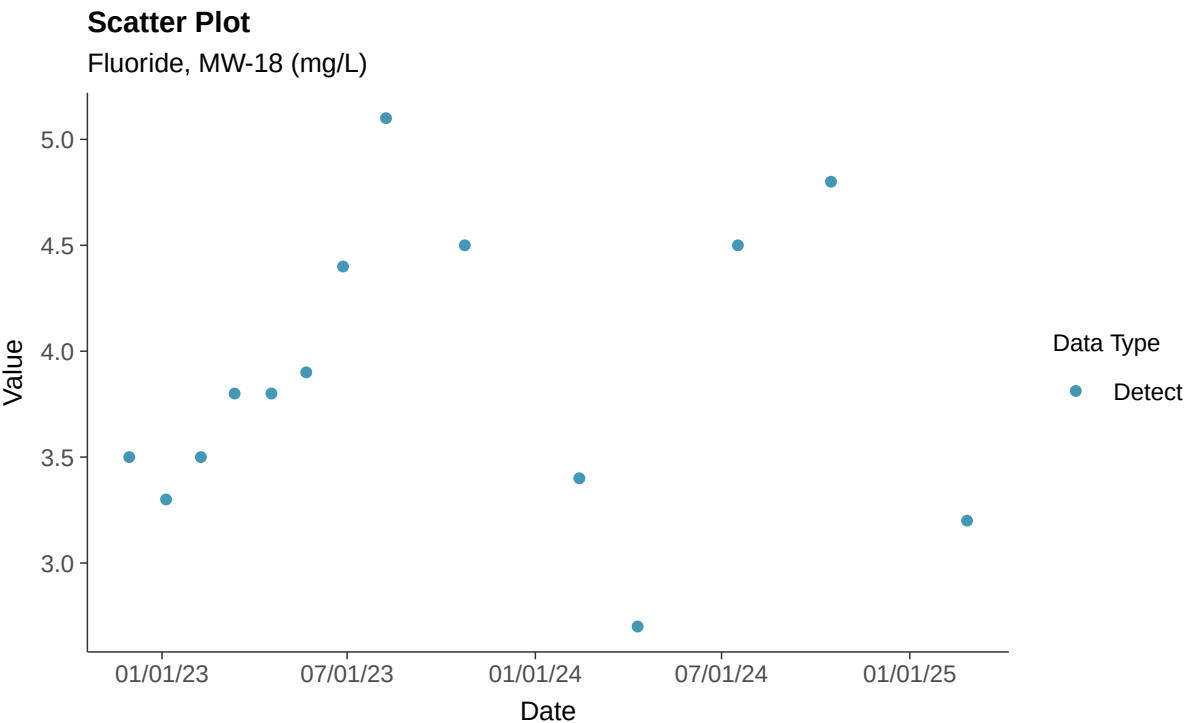


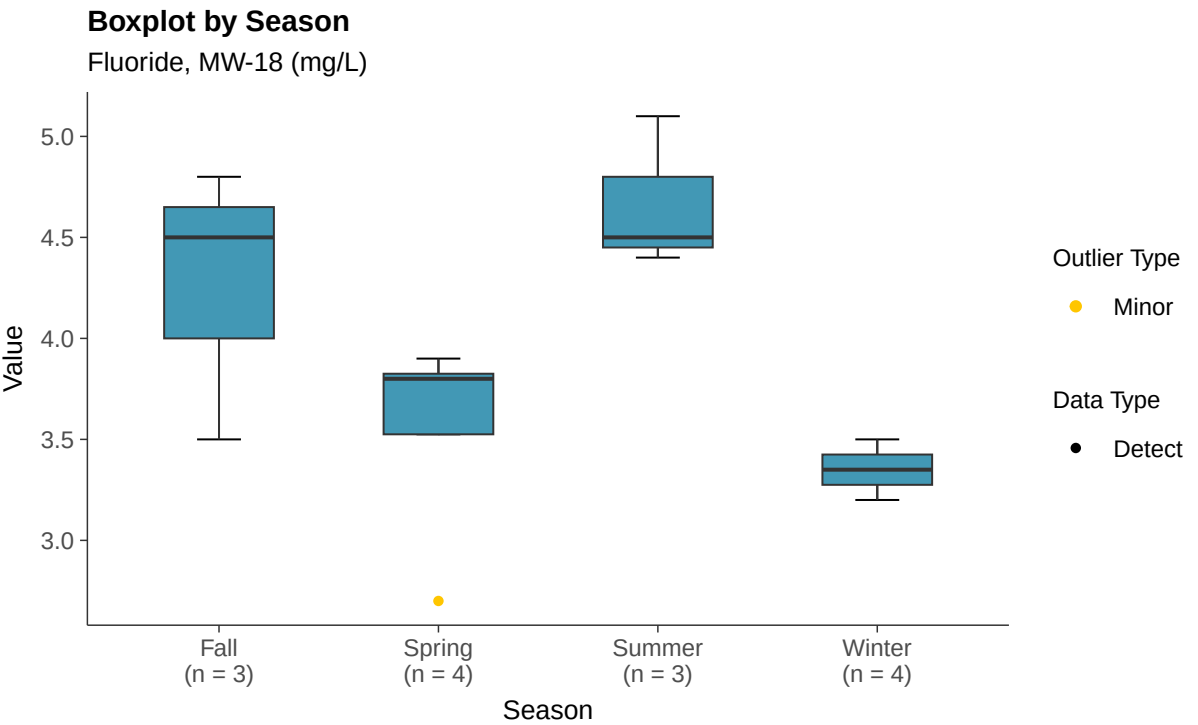
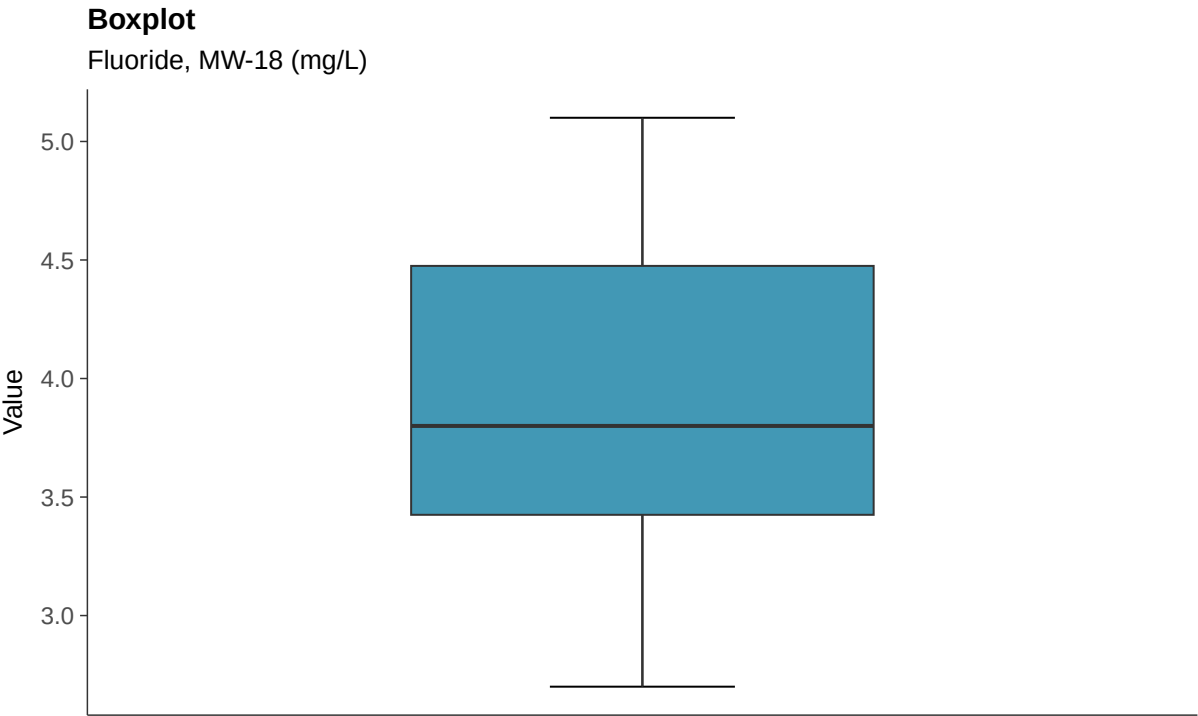


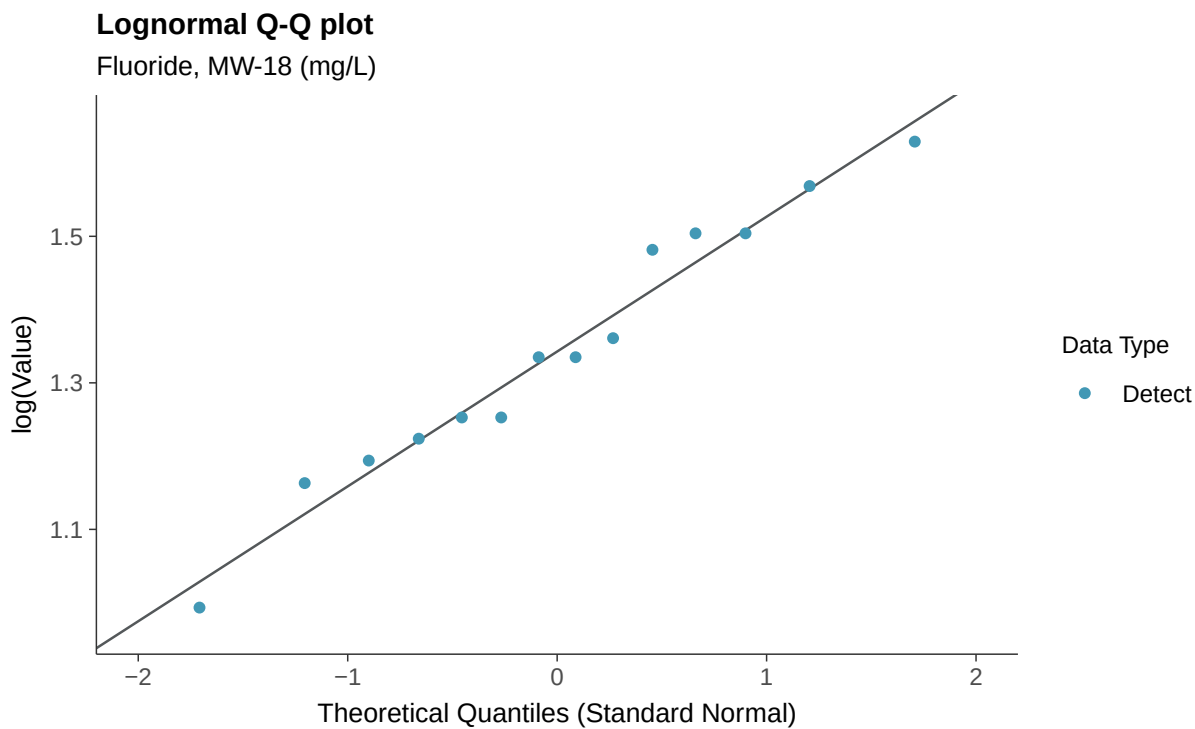
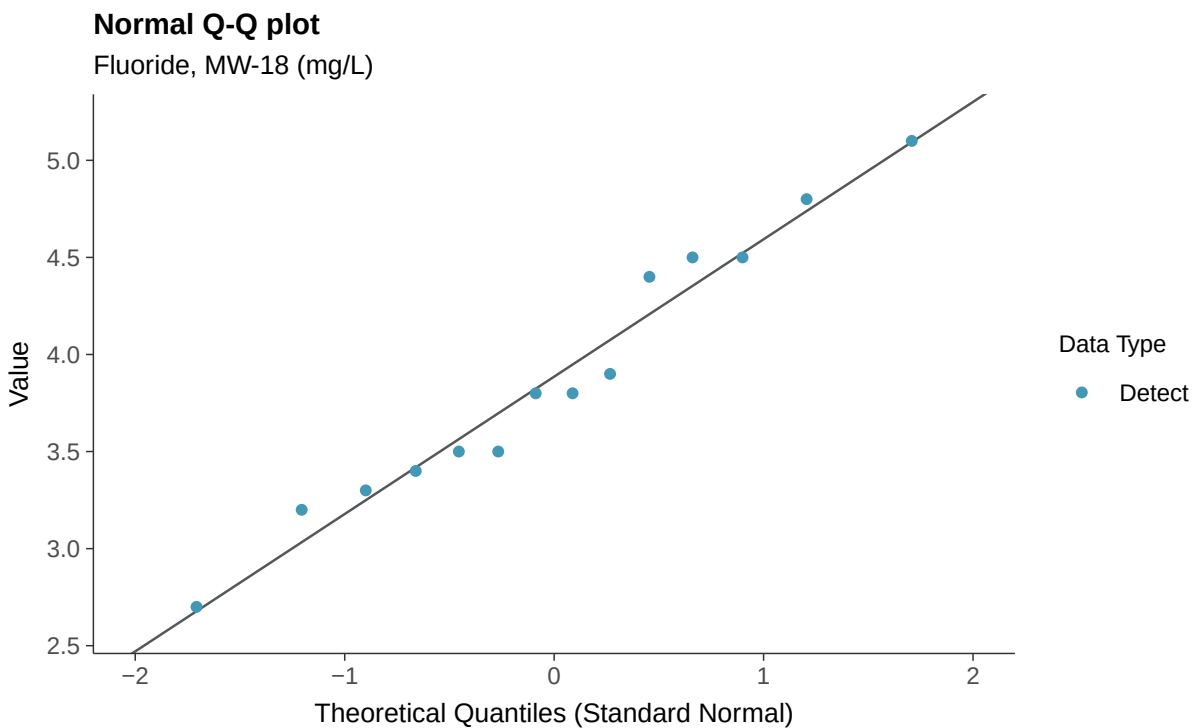


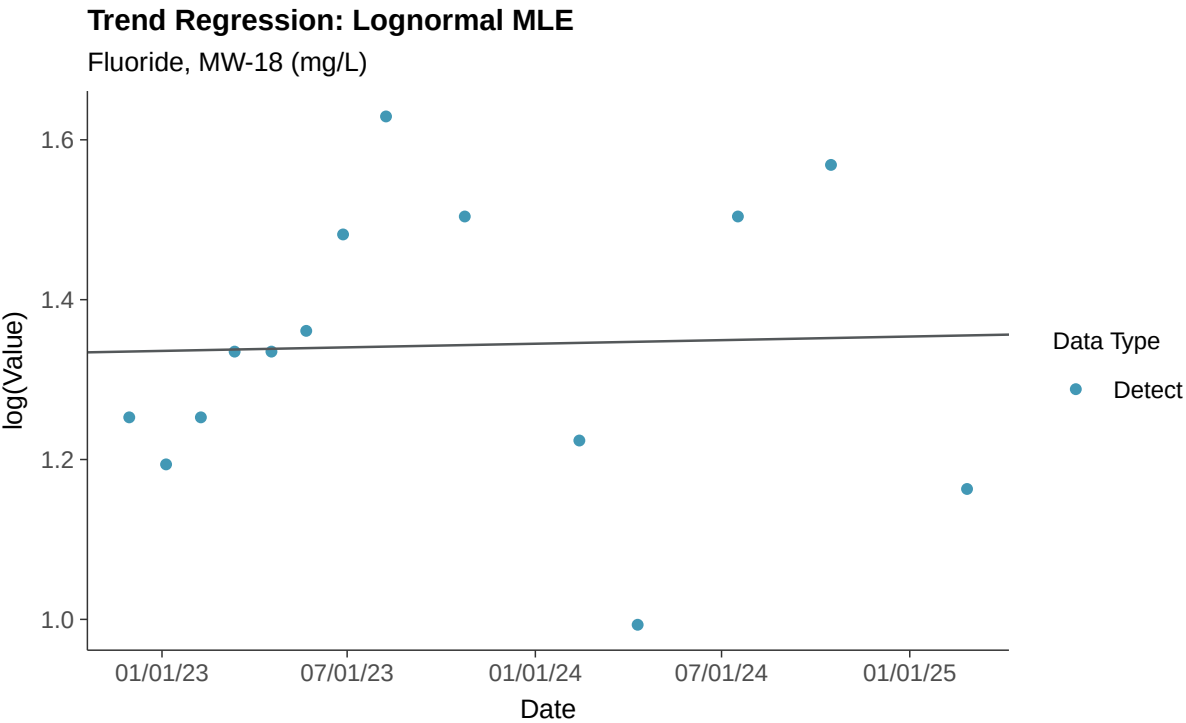
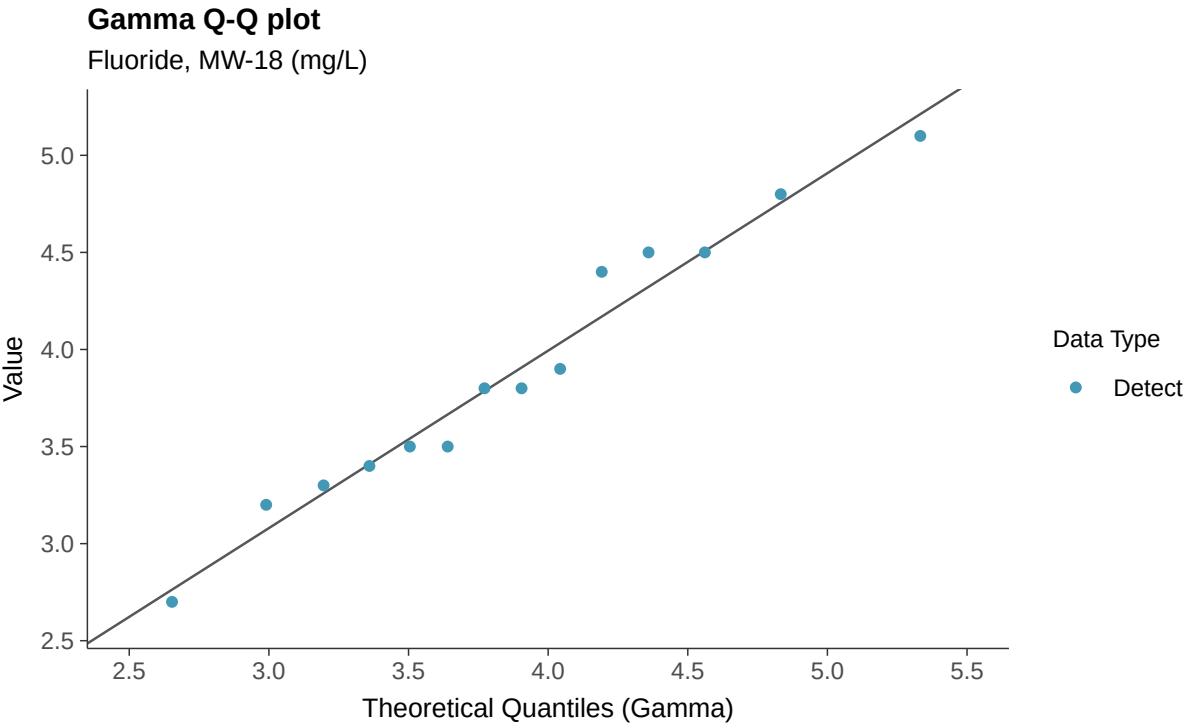
Appendix III: Fluoride, MW-18

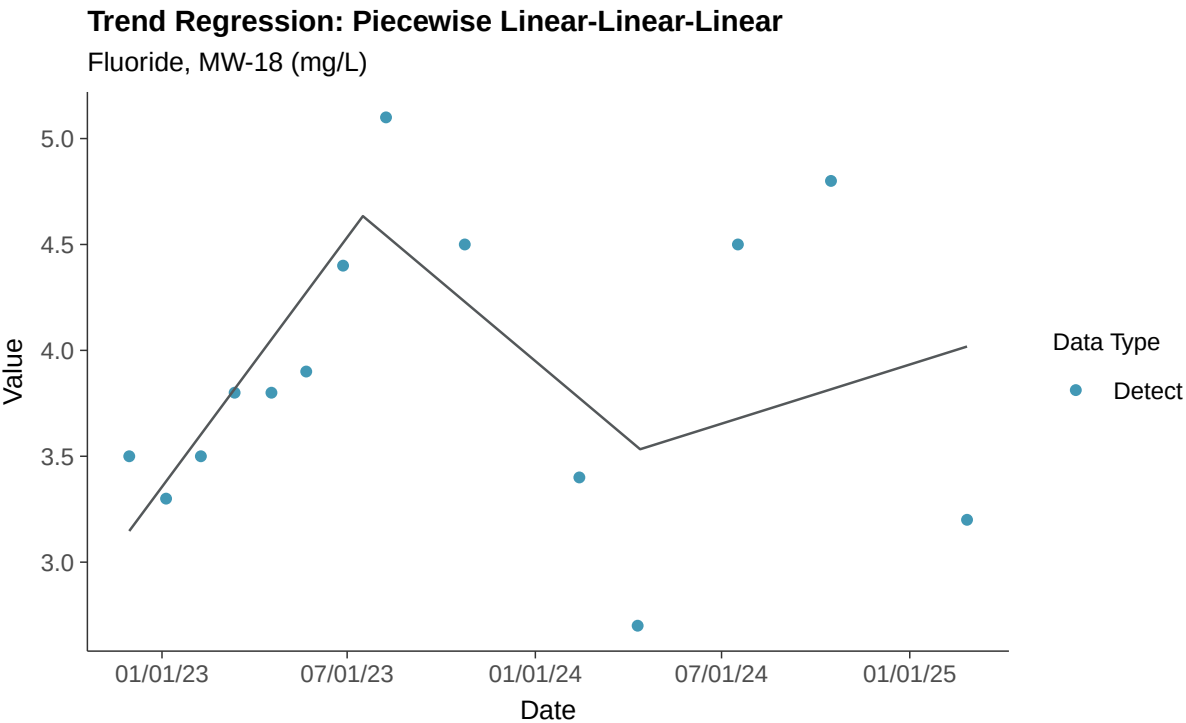
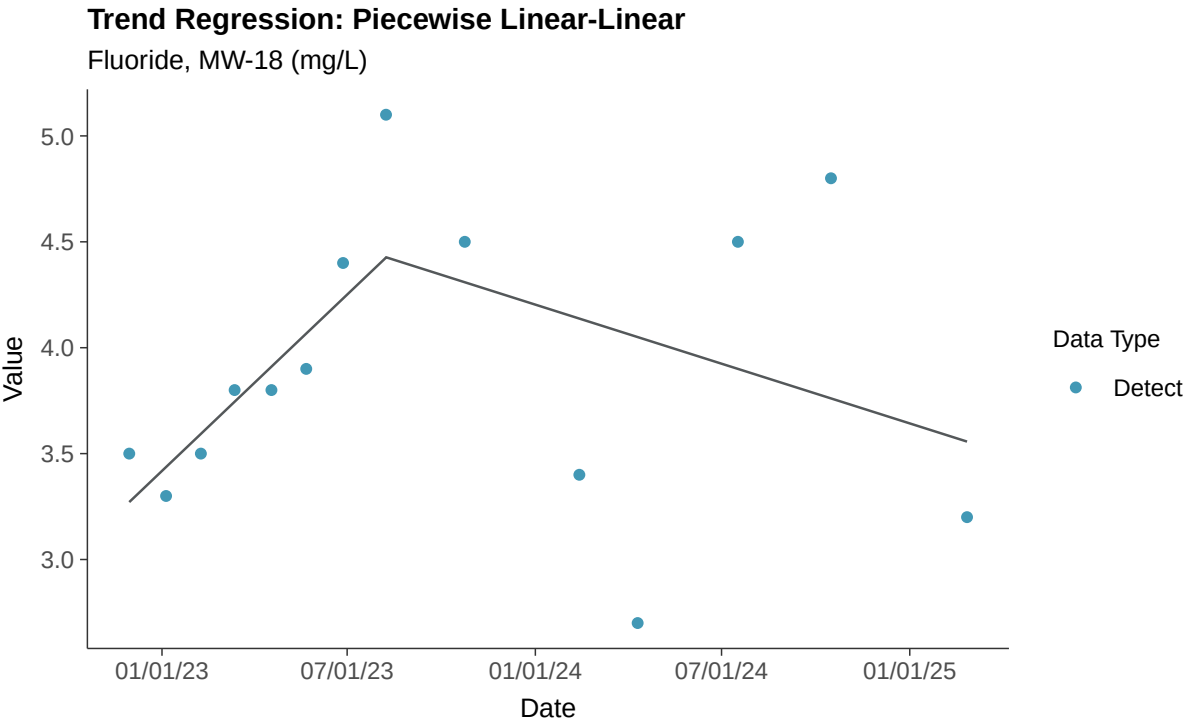
ID: 28_1_3_112







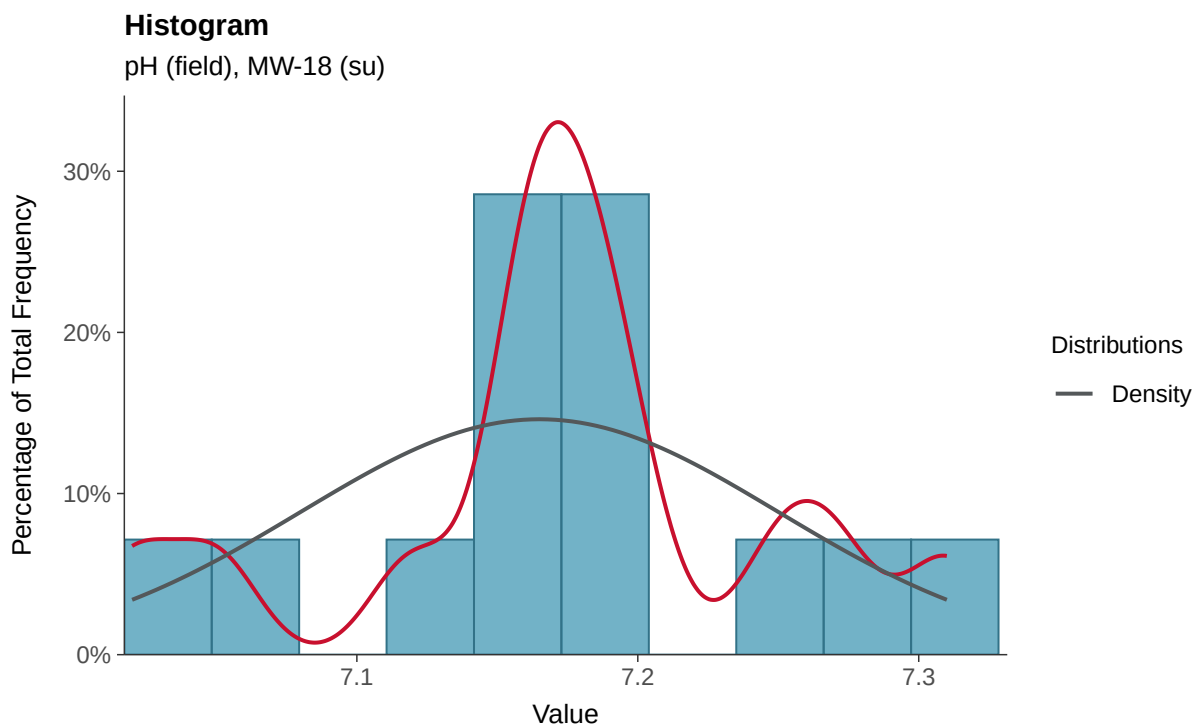
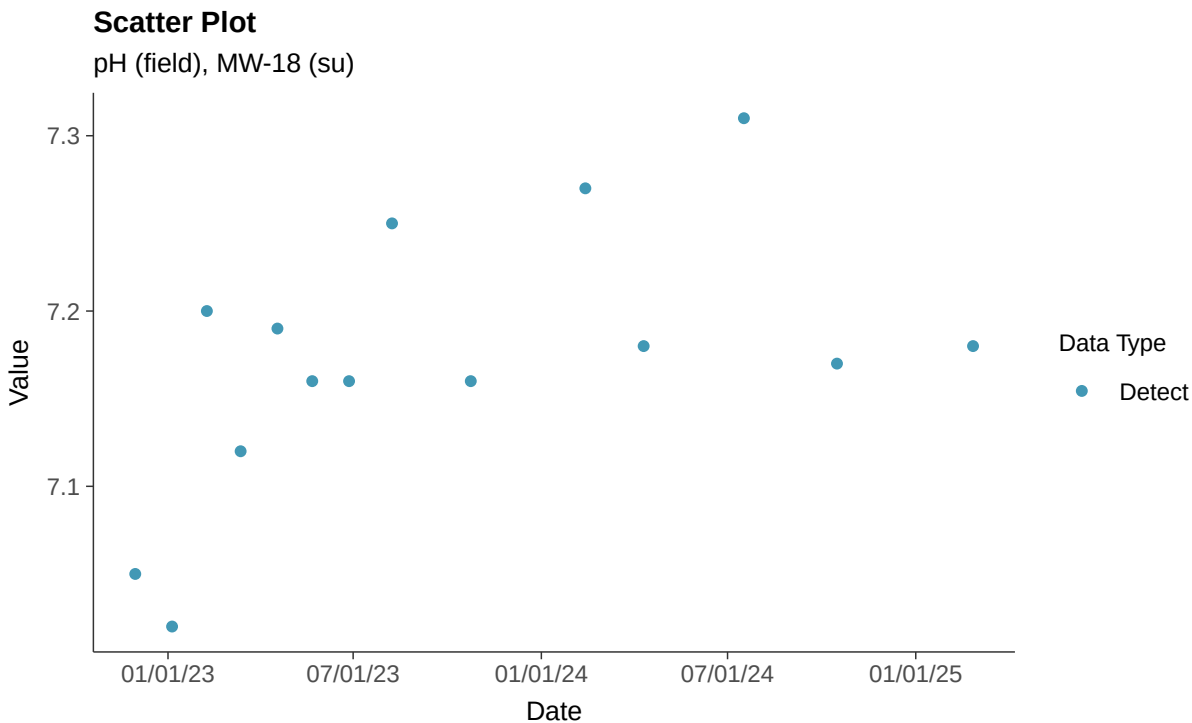


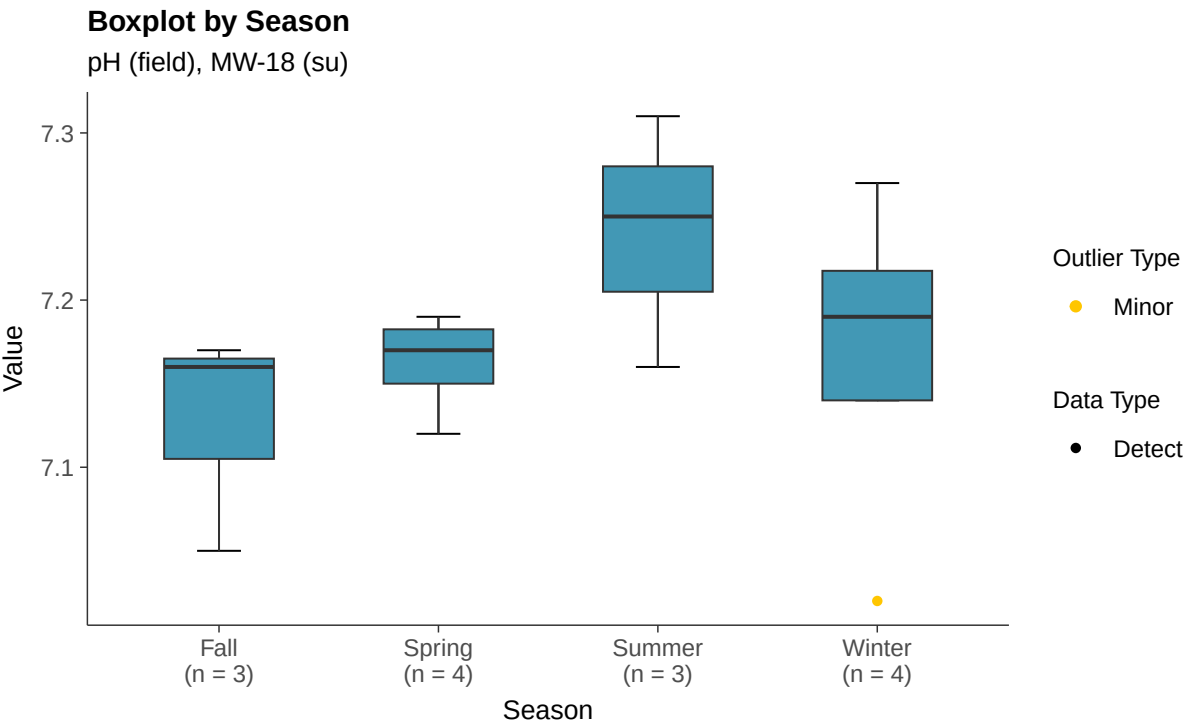
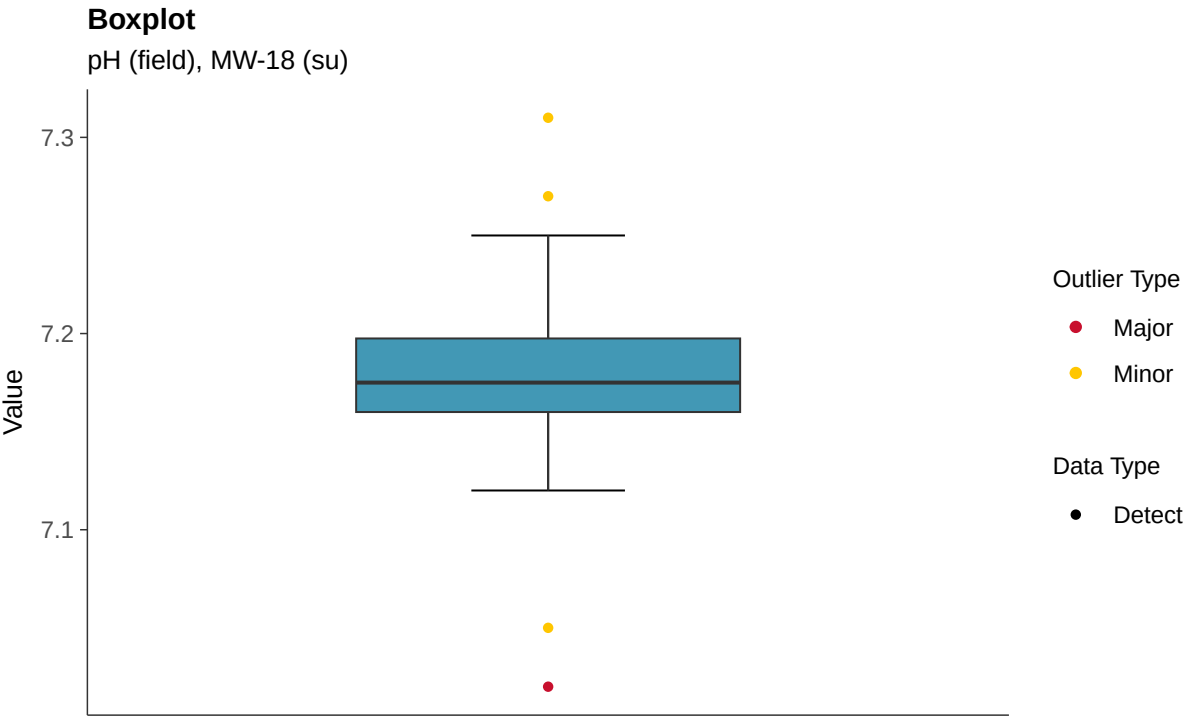


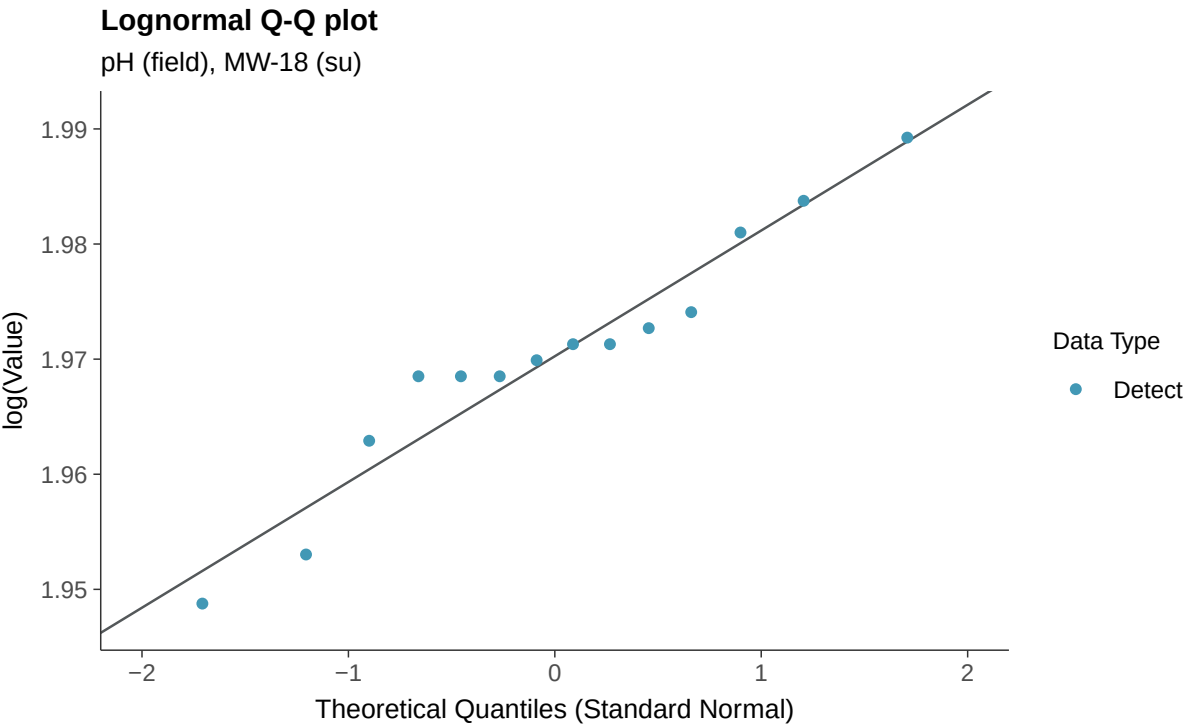
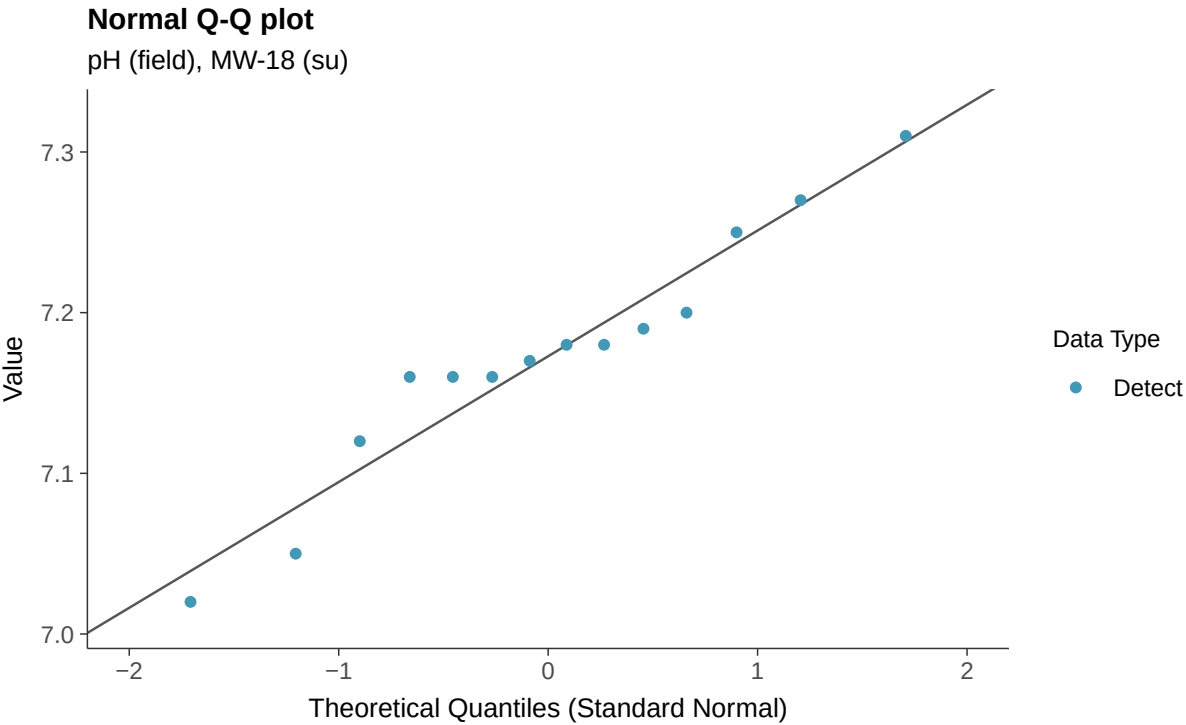


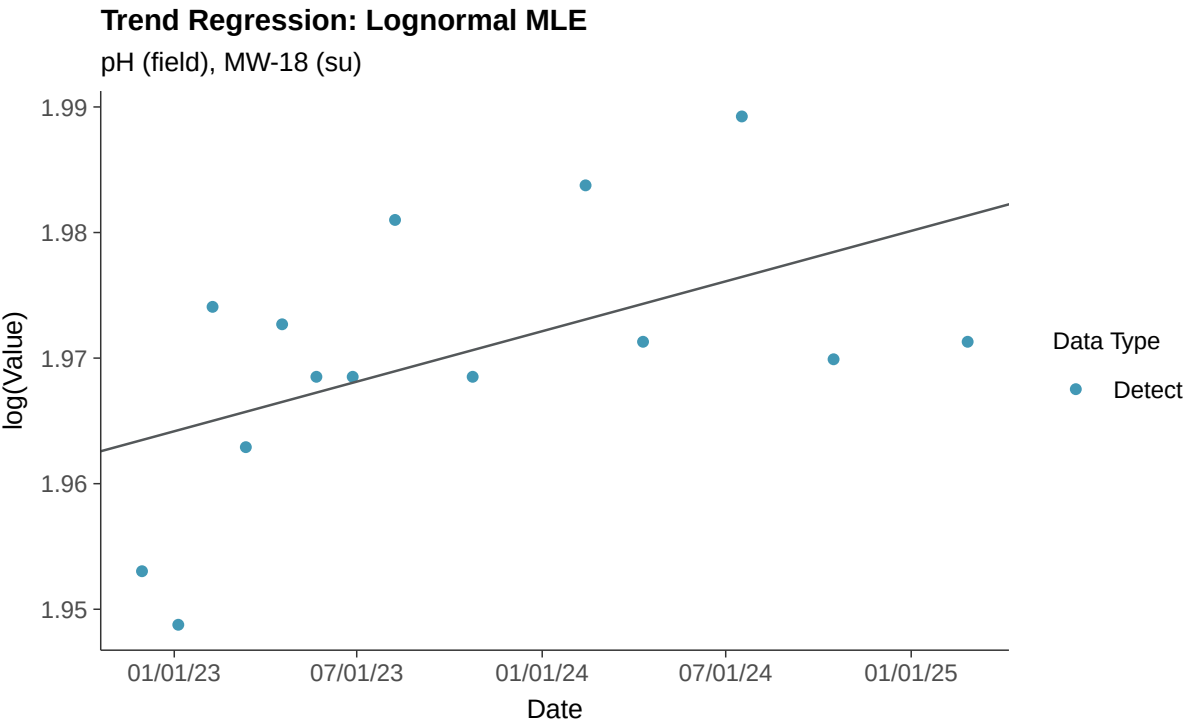
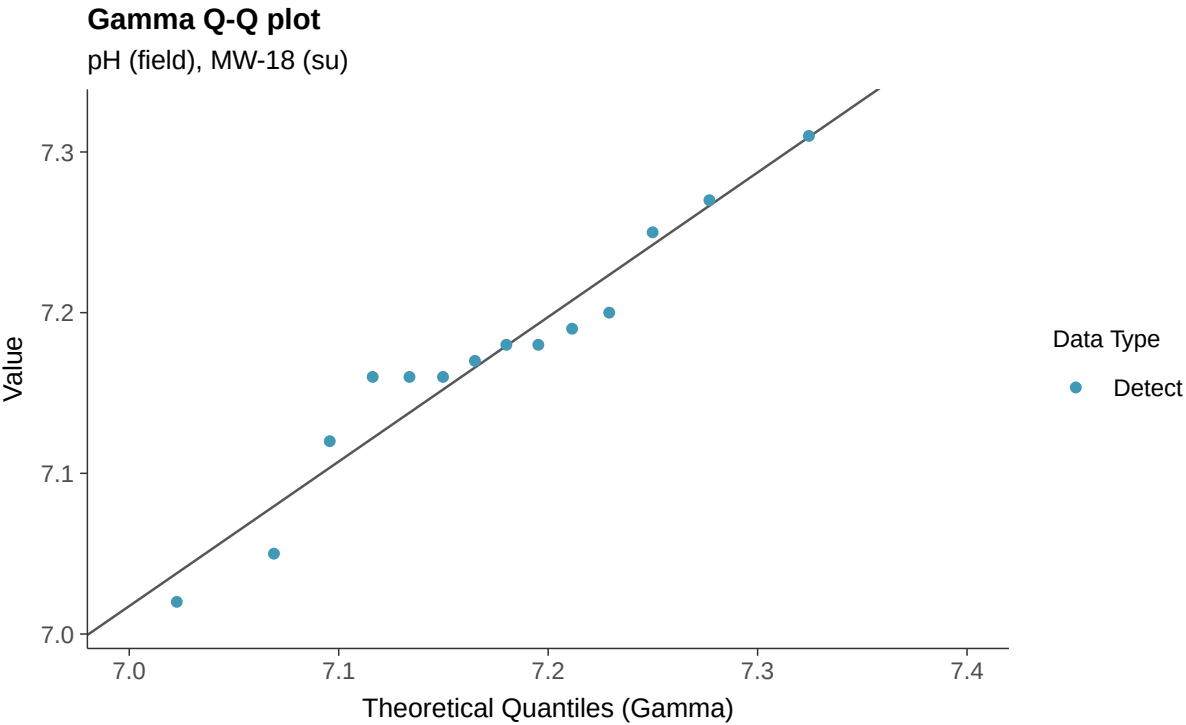
Appendix III: pH (field), MW-18

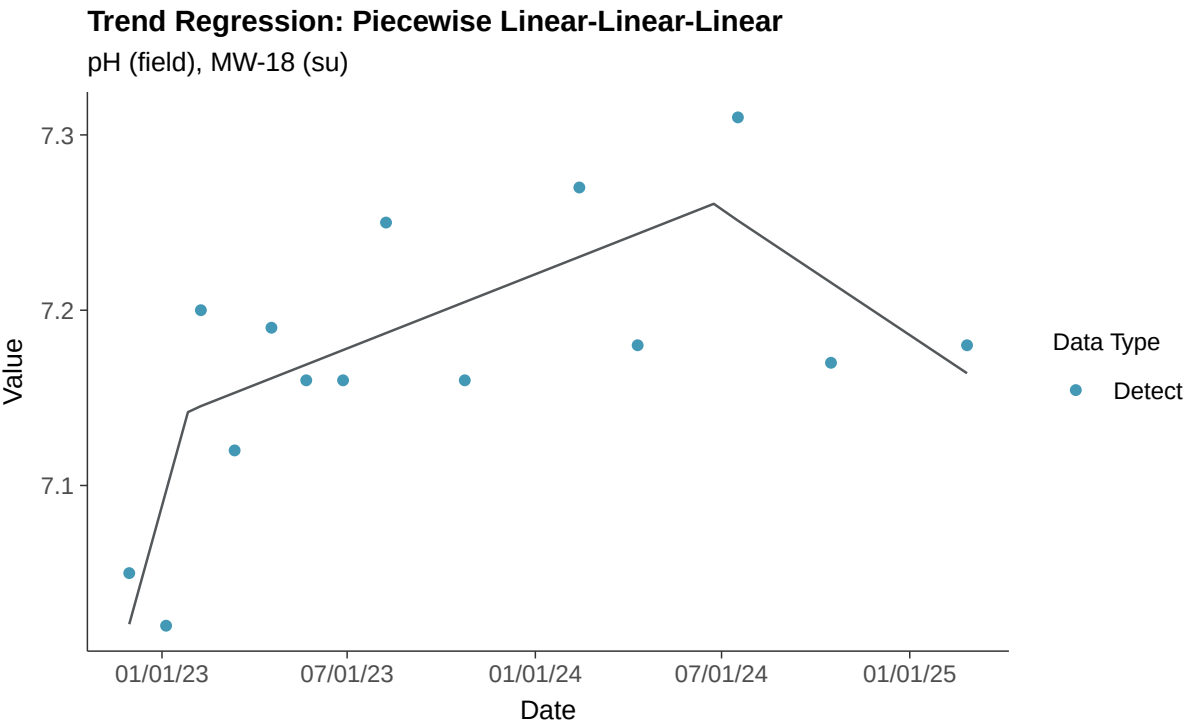
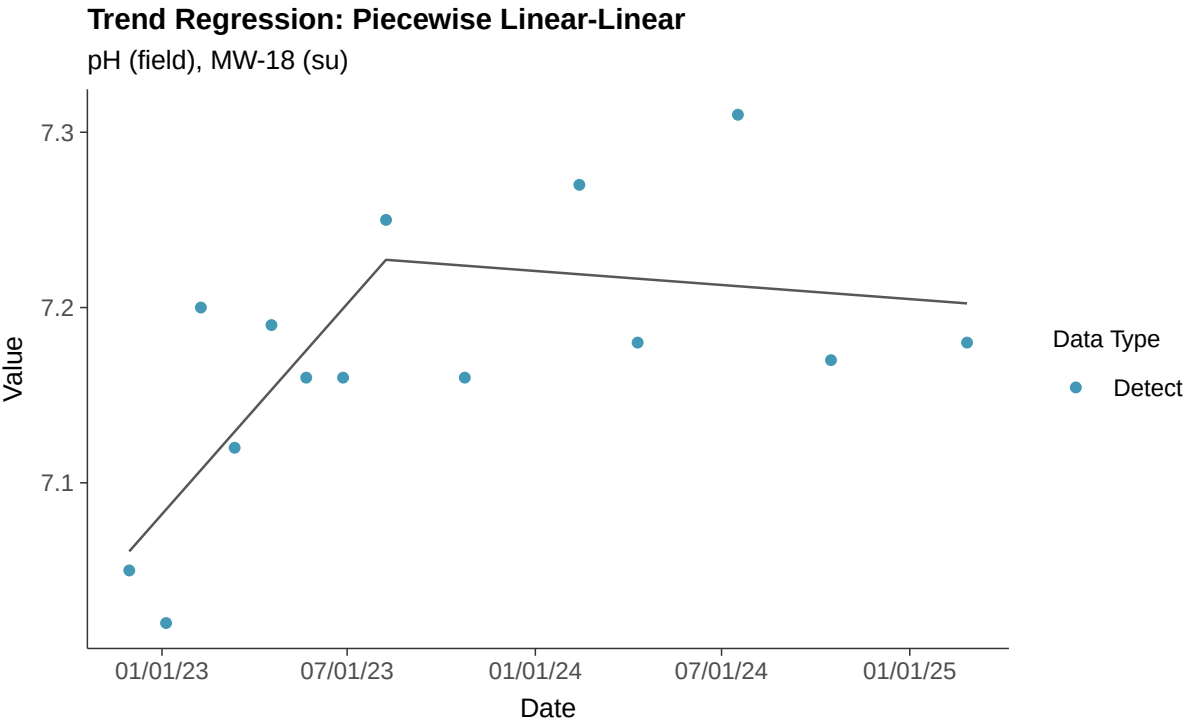
ID: 28_1_3_120







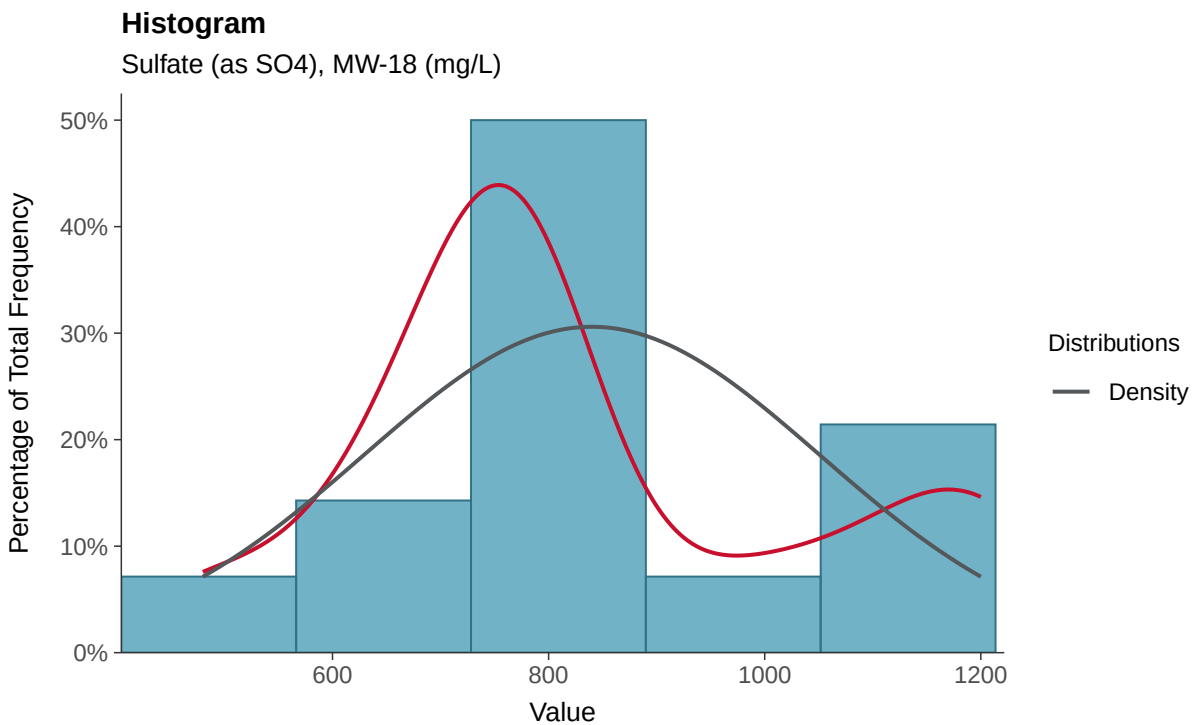
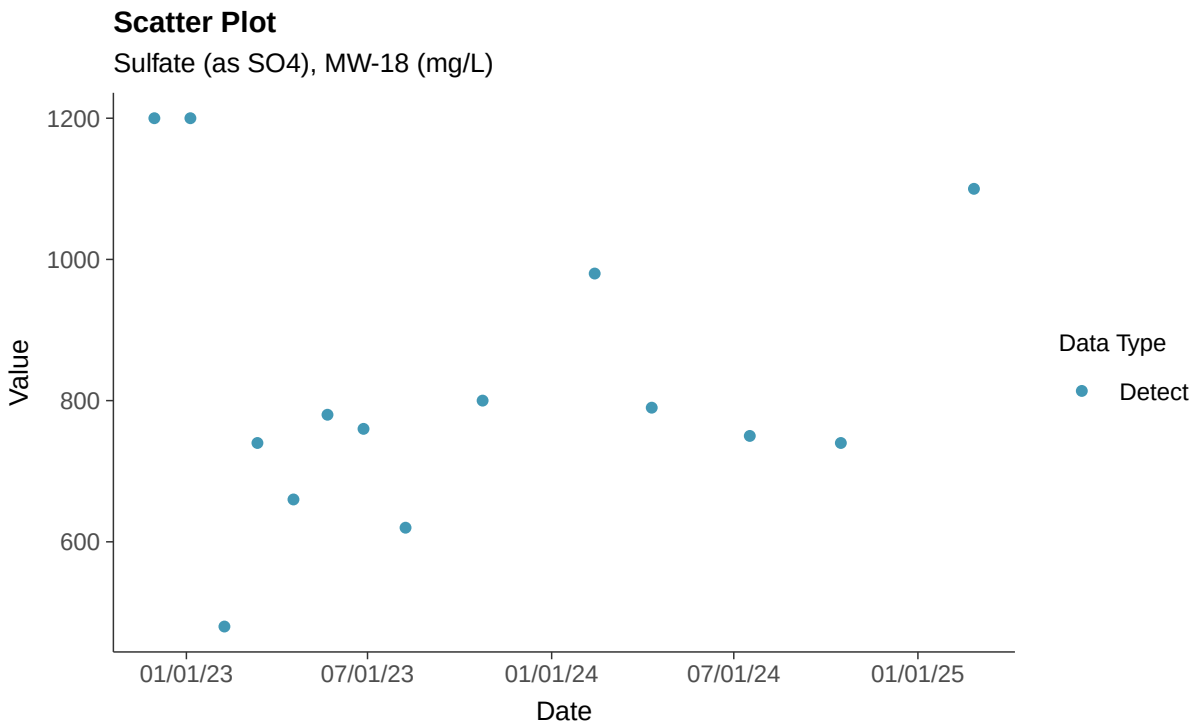


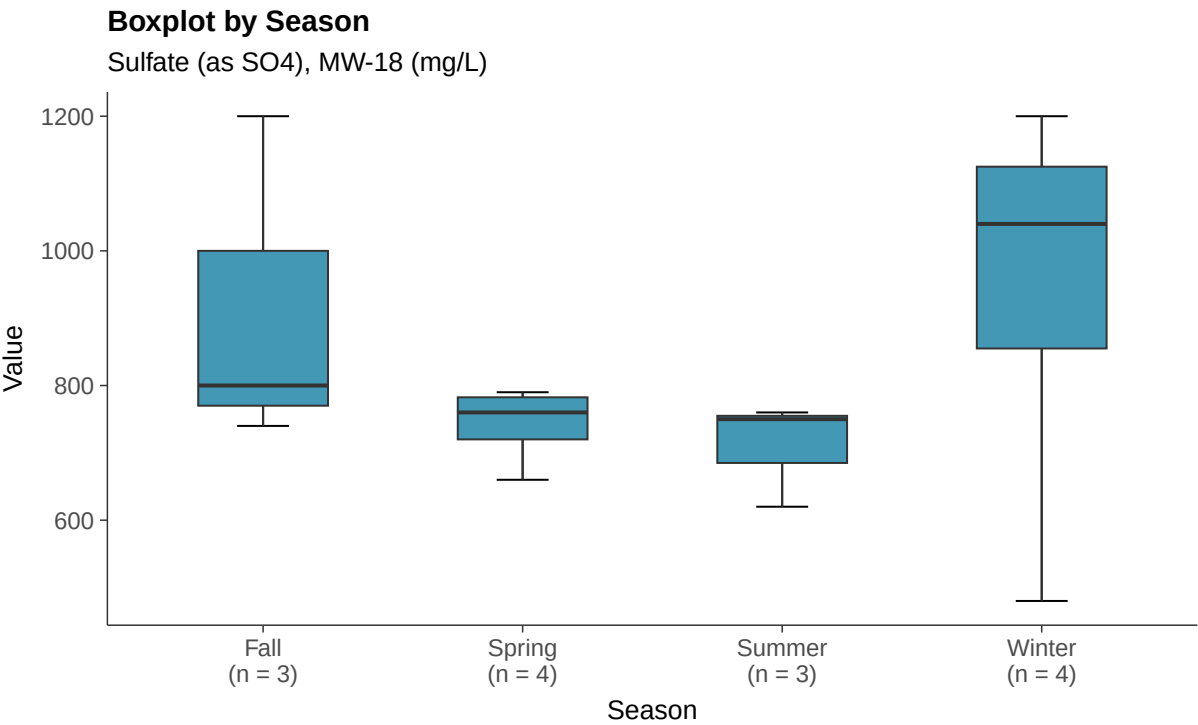
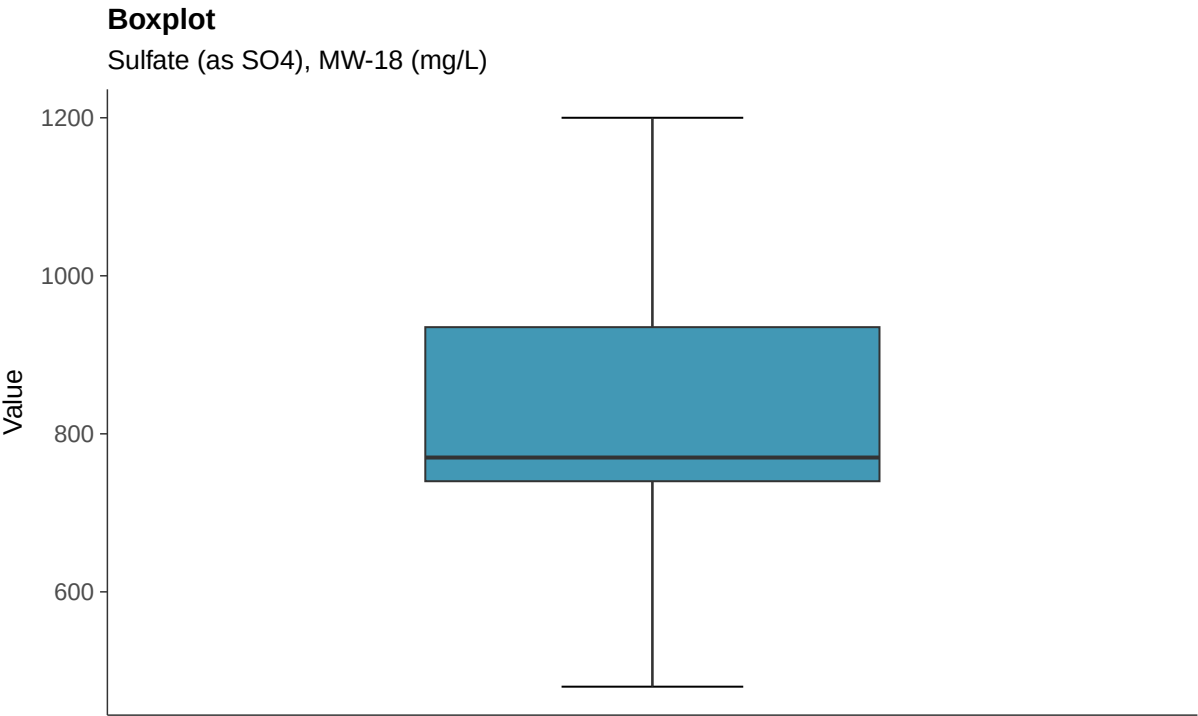


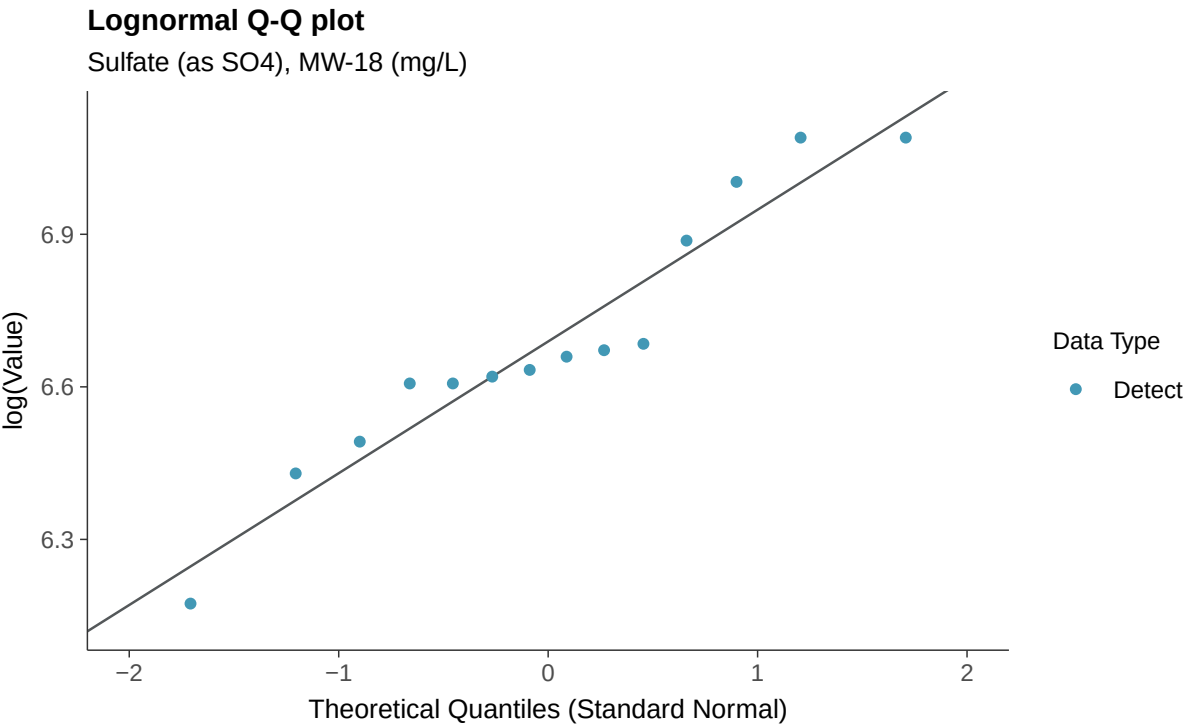
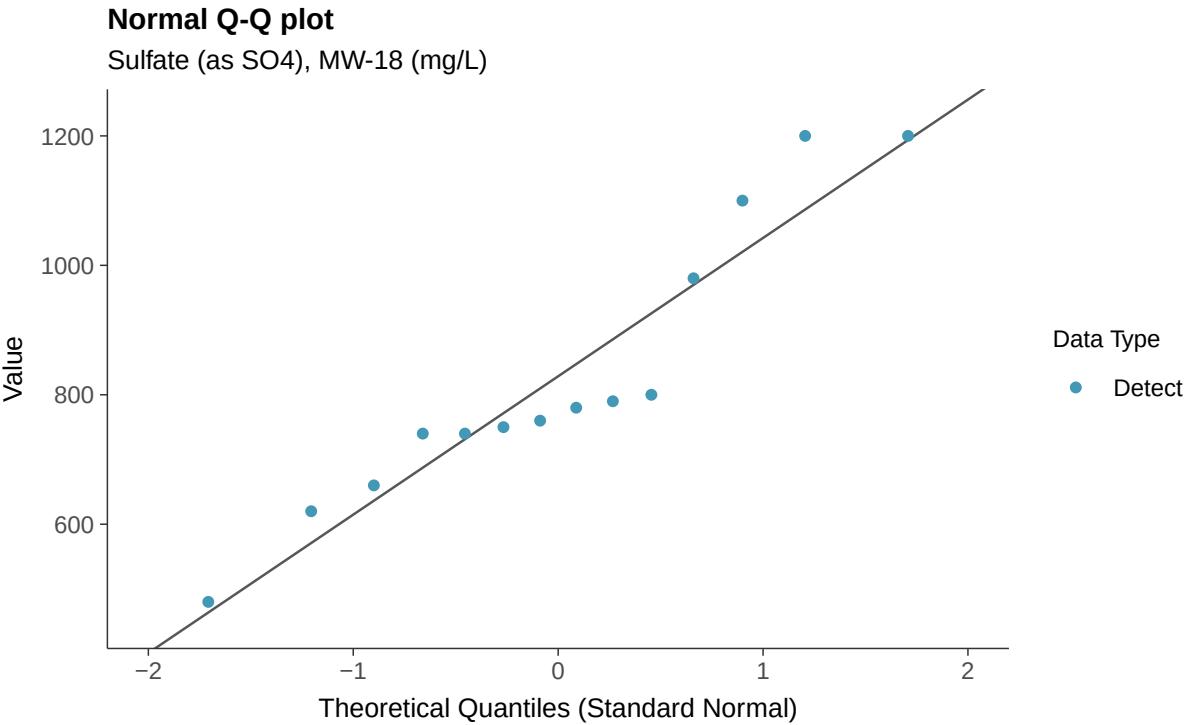


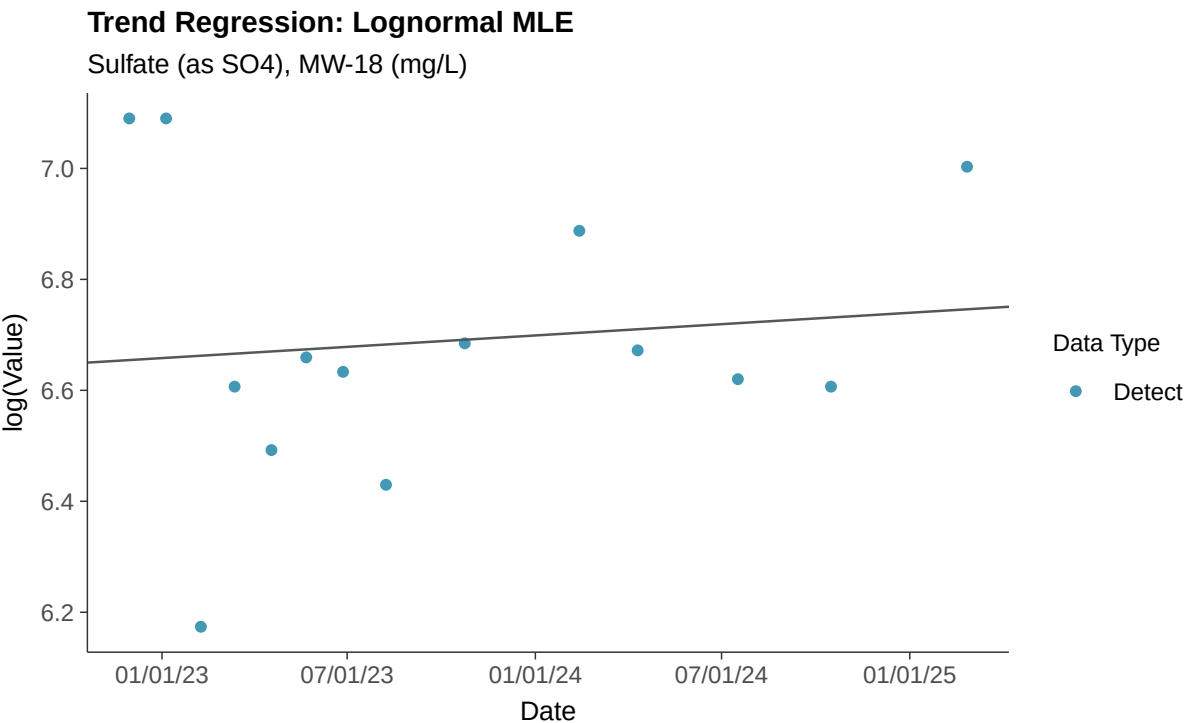
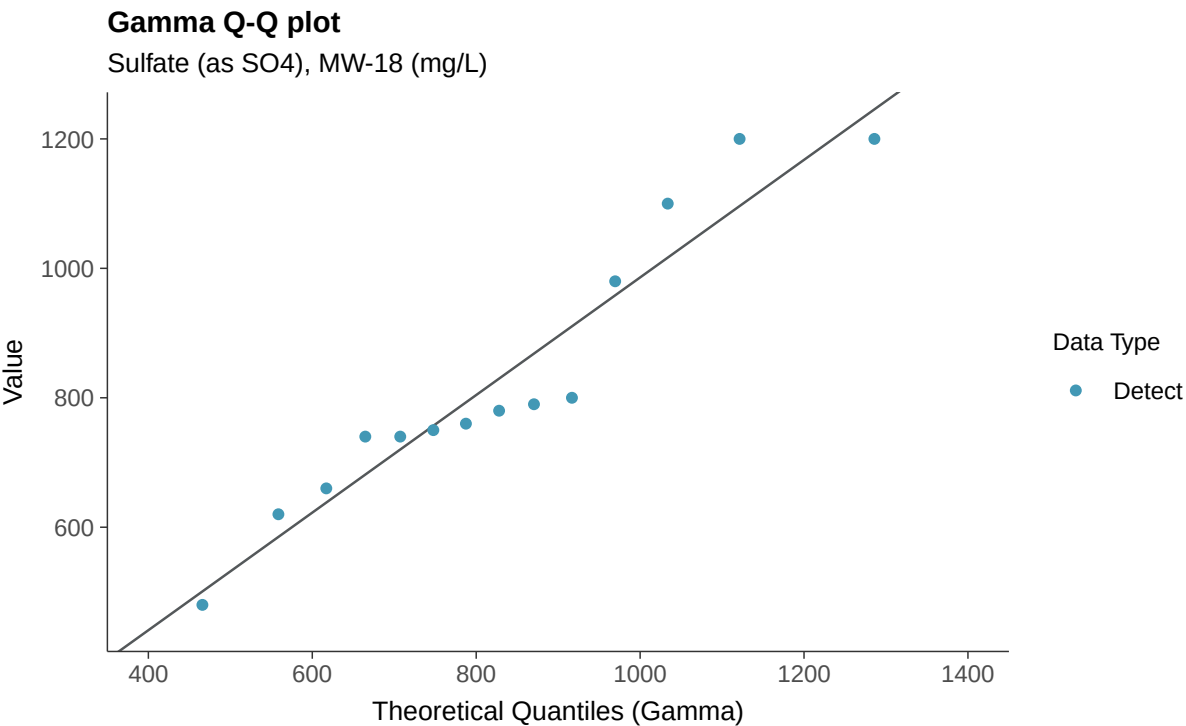
Appendix III: Sulfate (as SO₄), MW-18

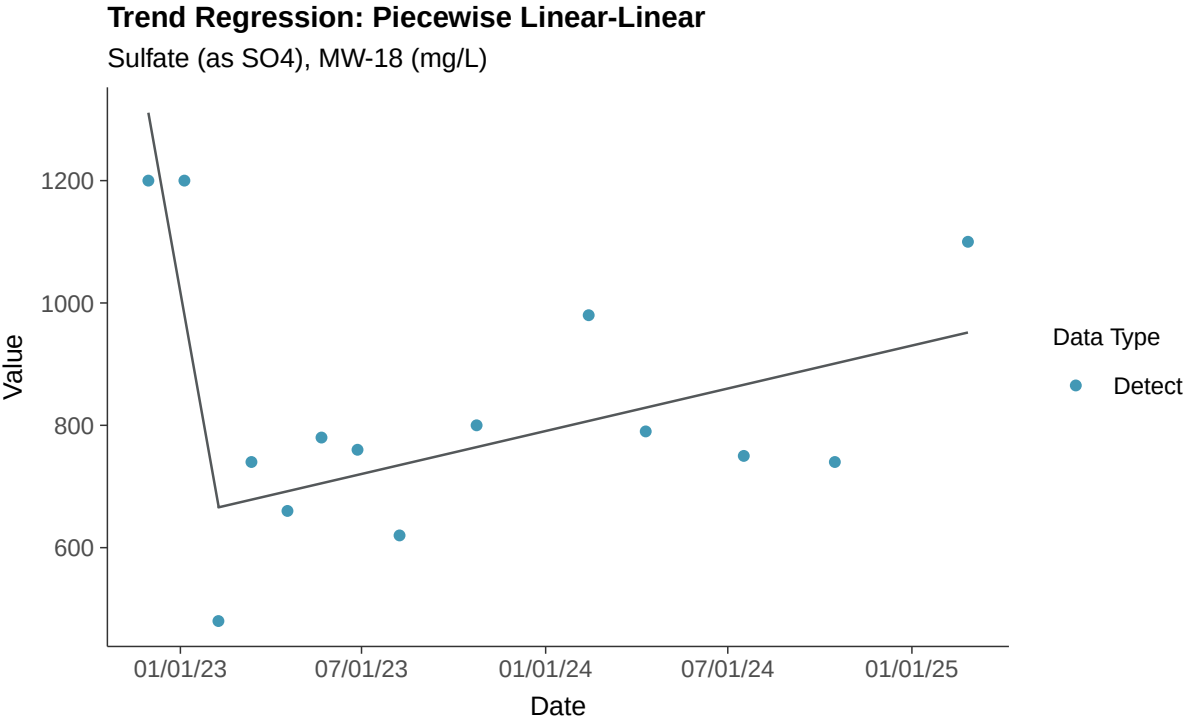
ID: 28_1_3_124







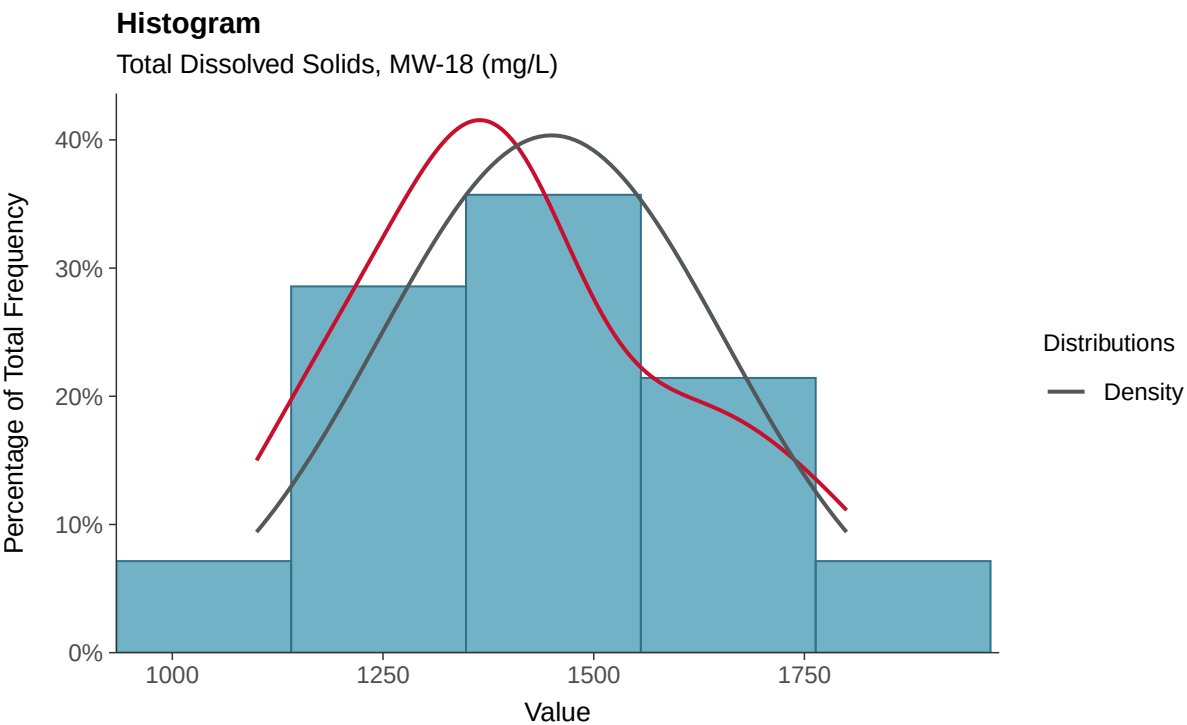
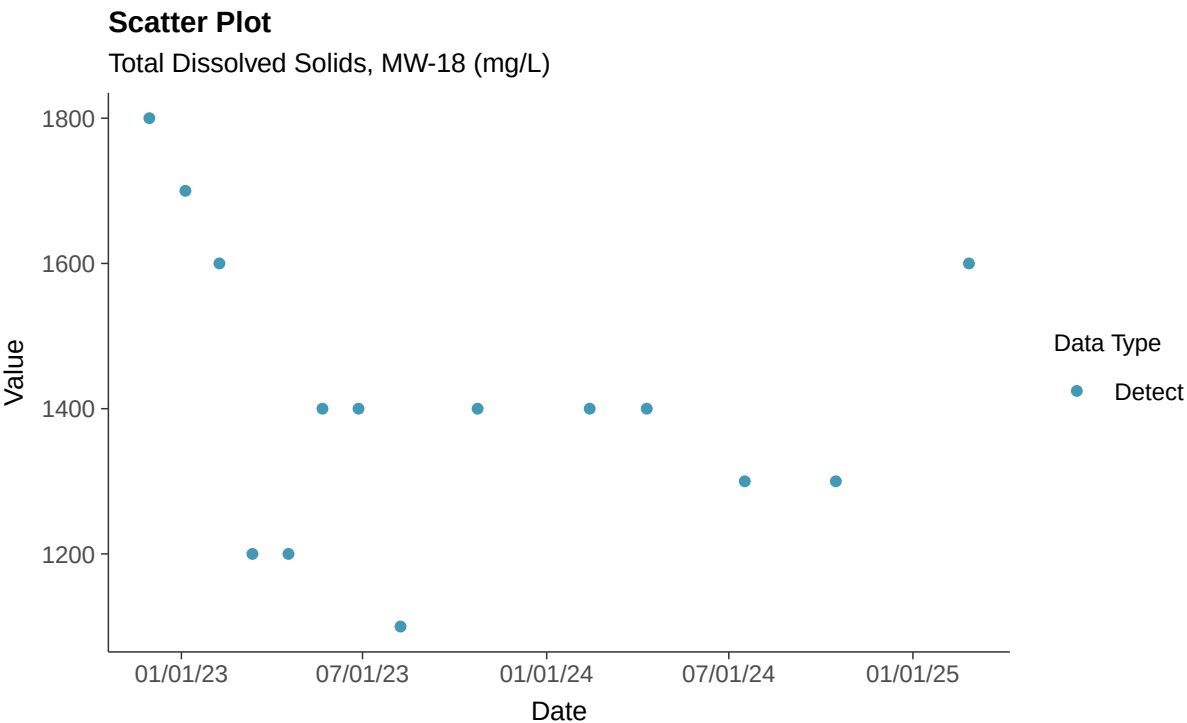


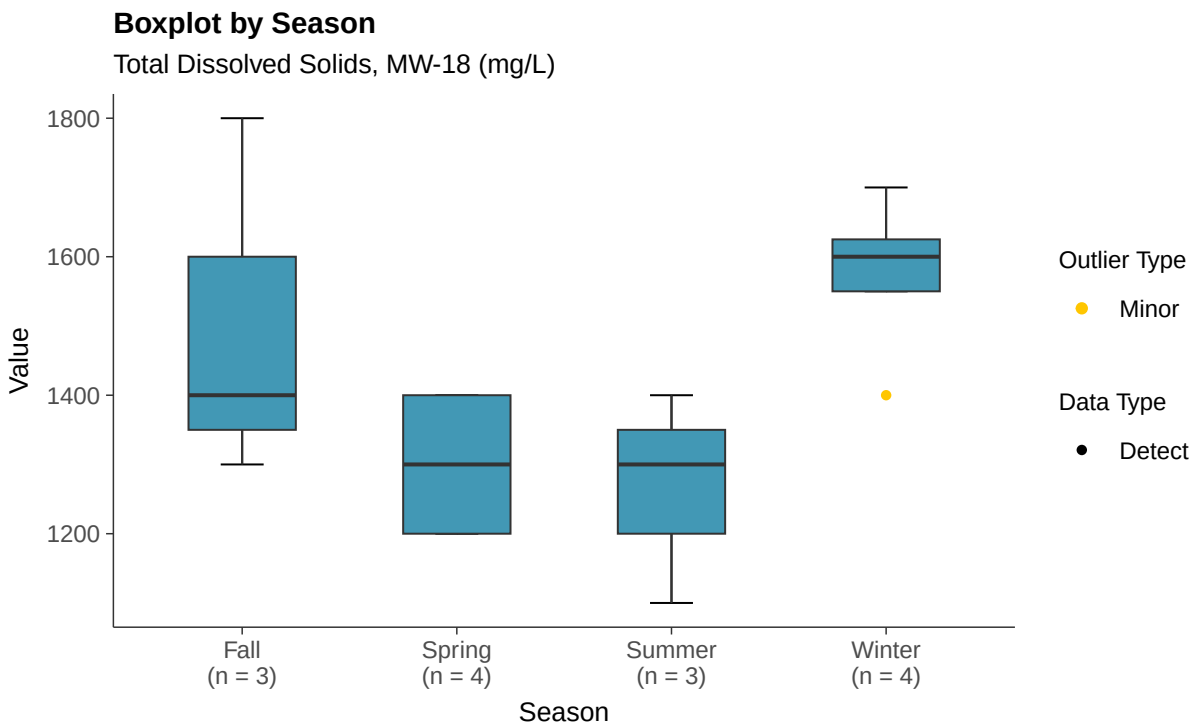
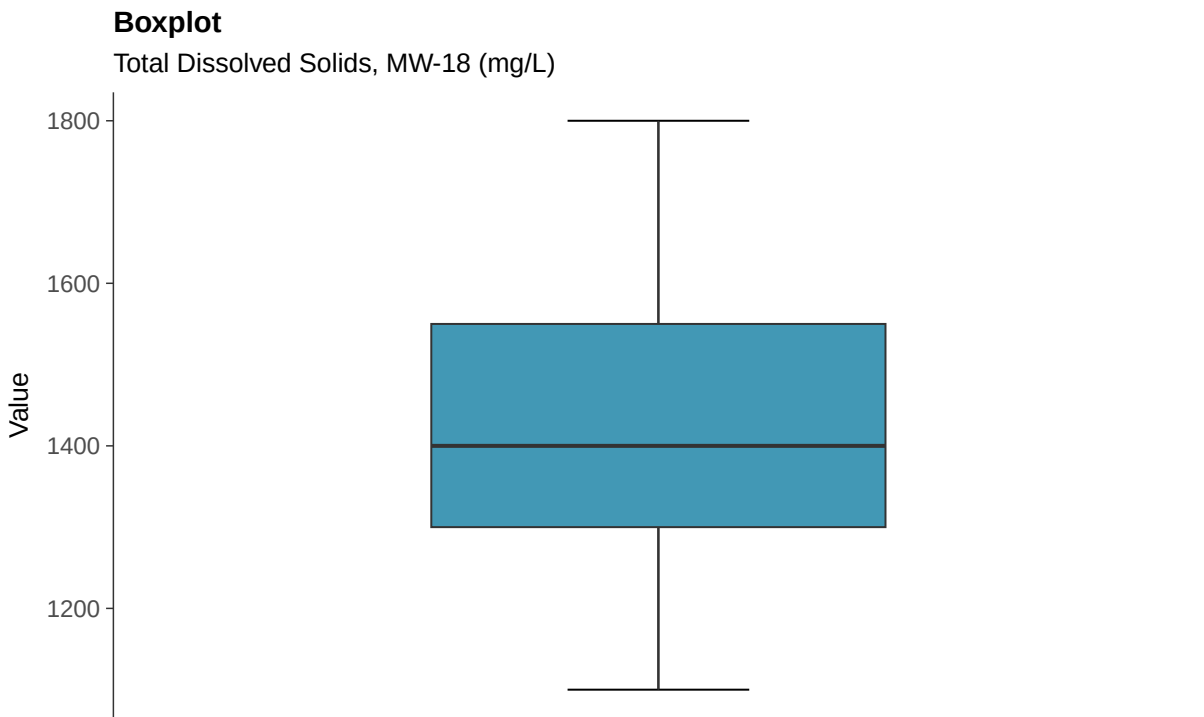


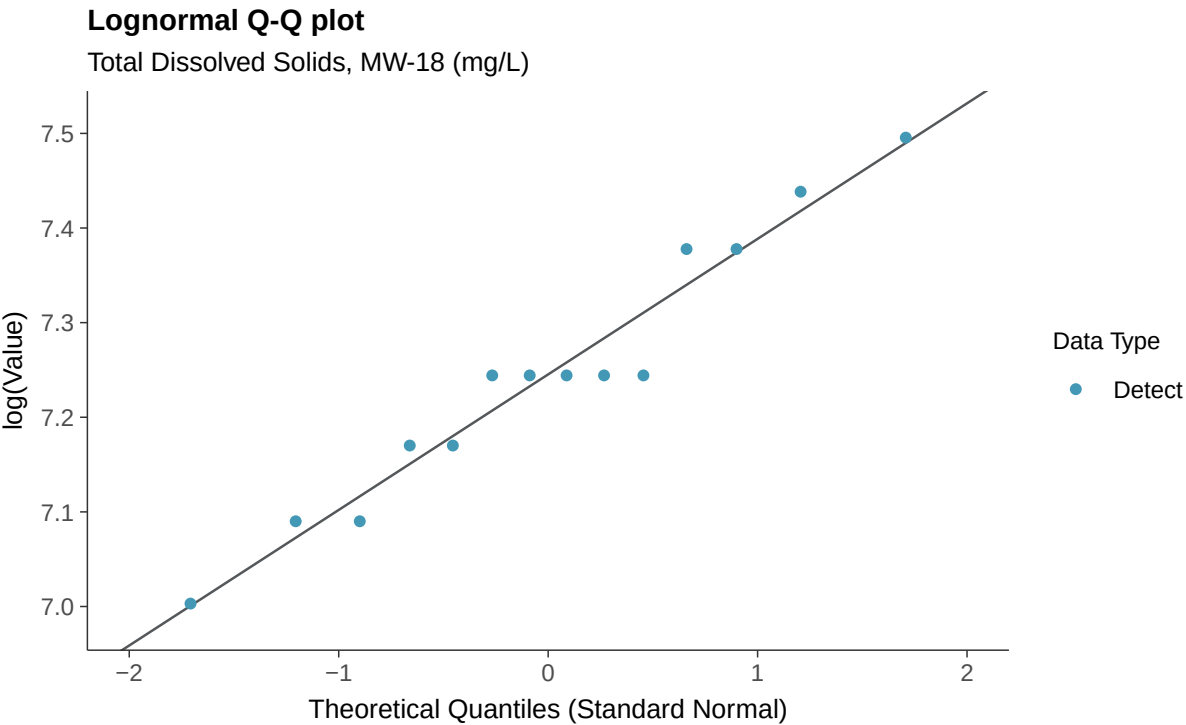
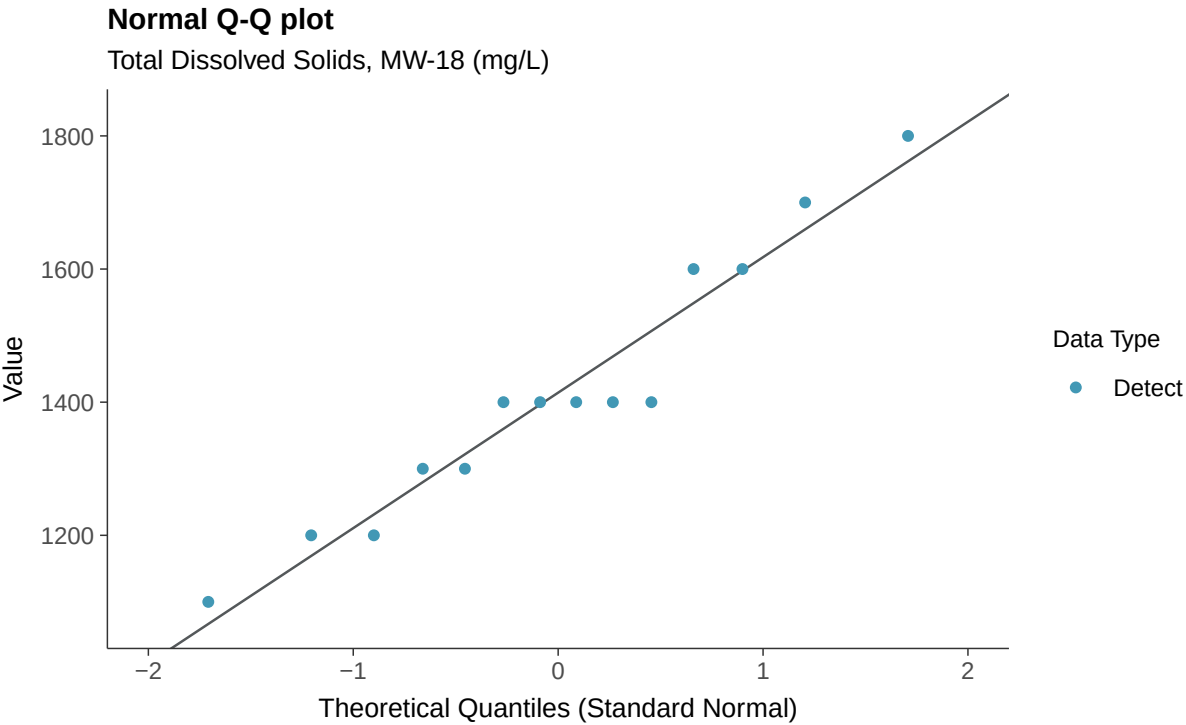


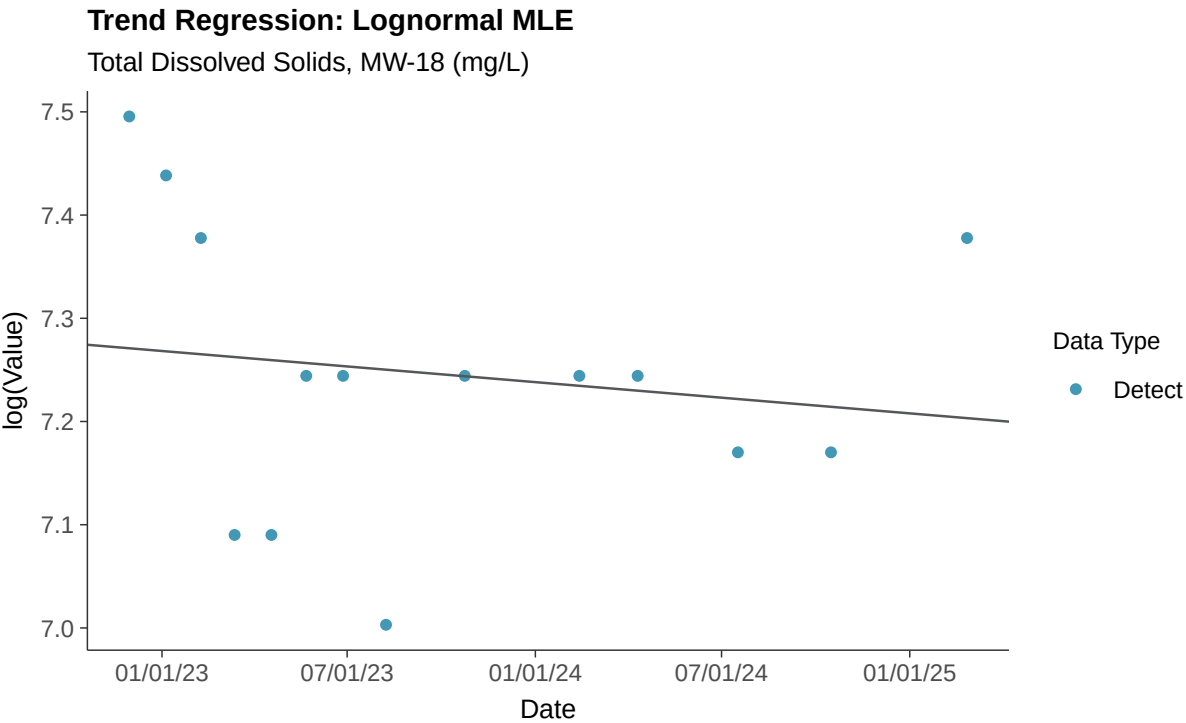
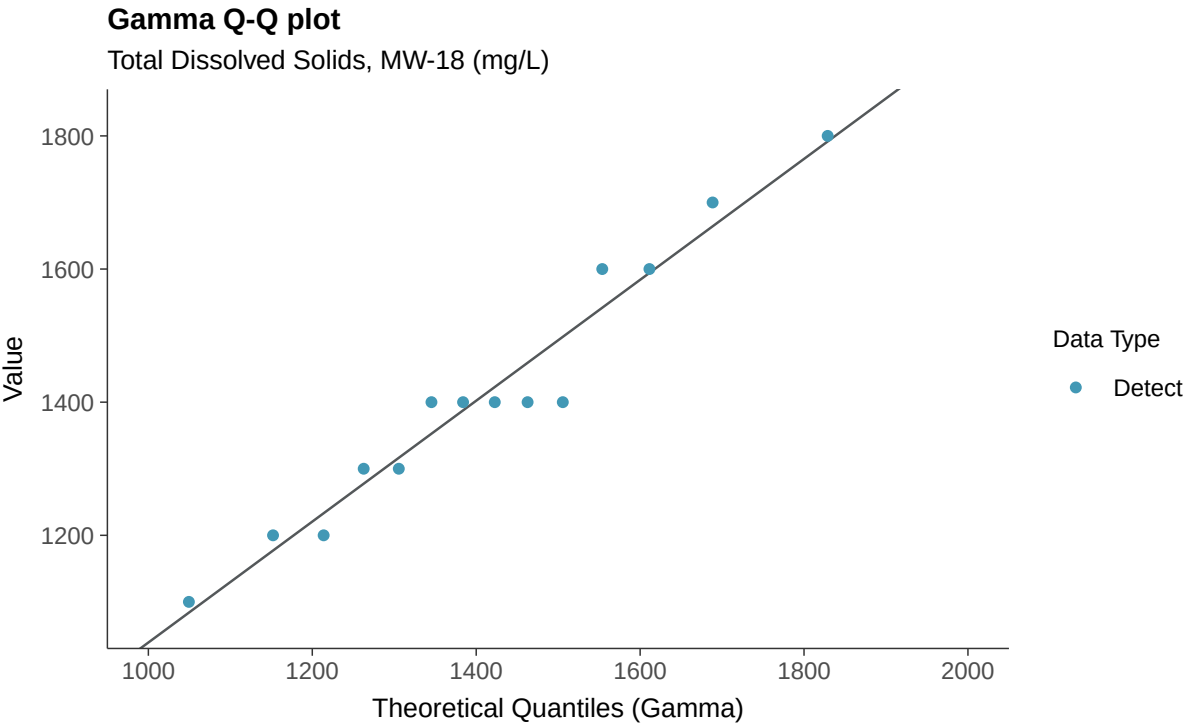
Appendix III: Total Dissolved Solids, MW-18

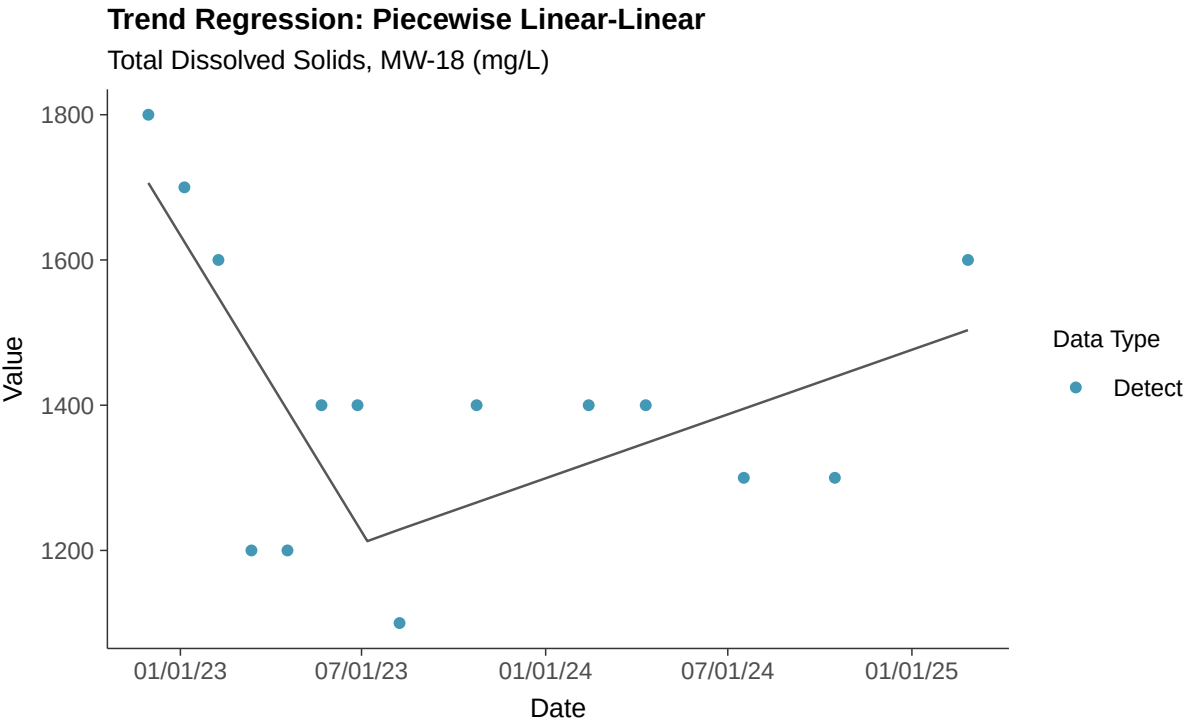
ID: 28_1_3_126







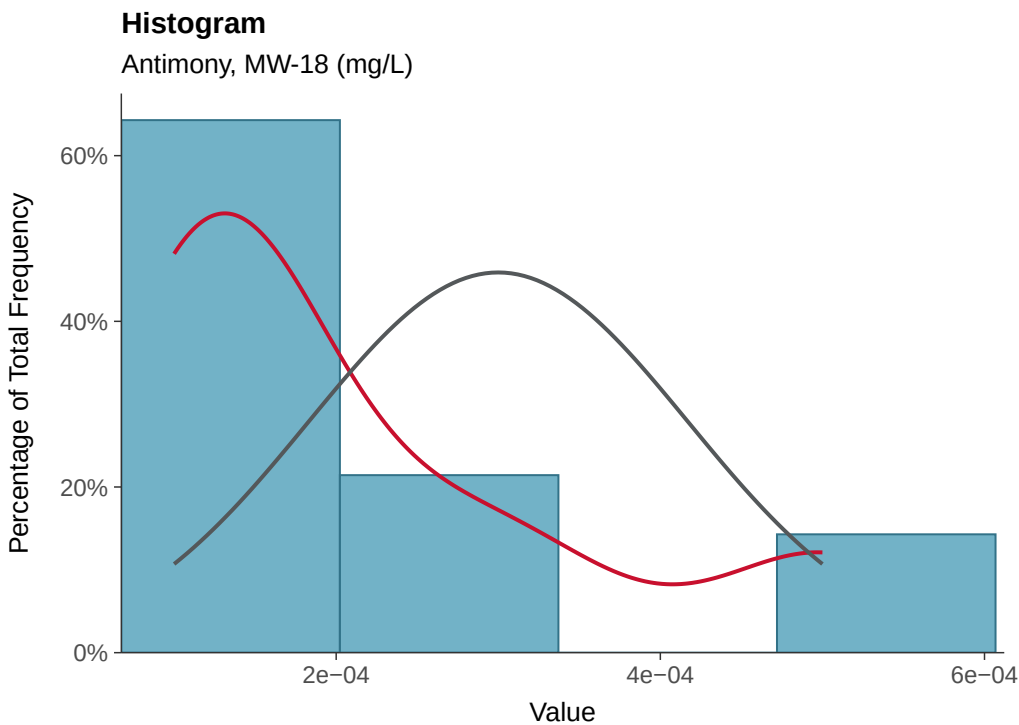
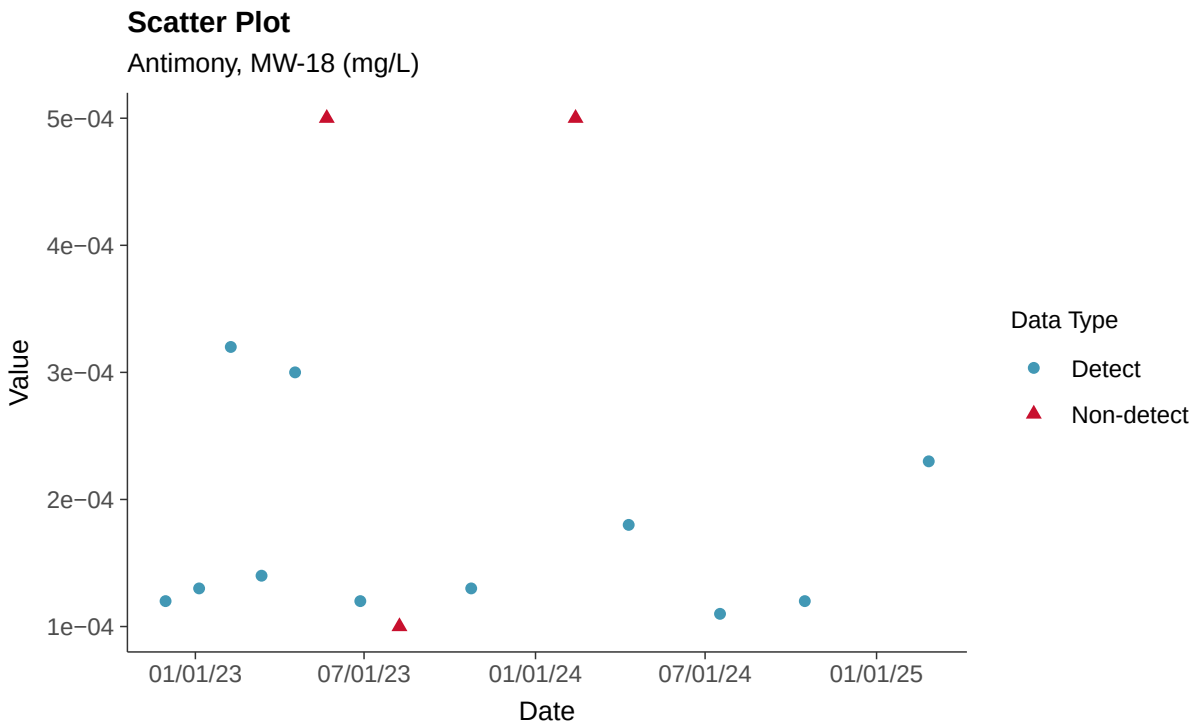


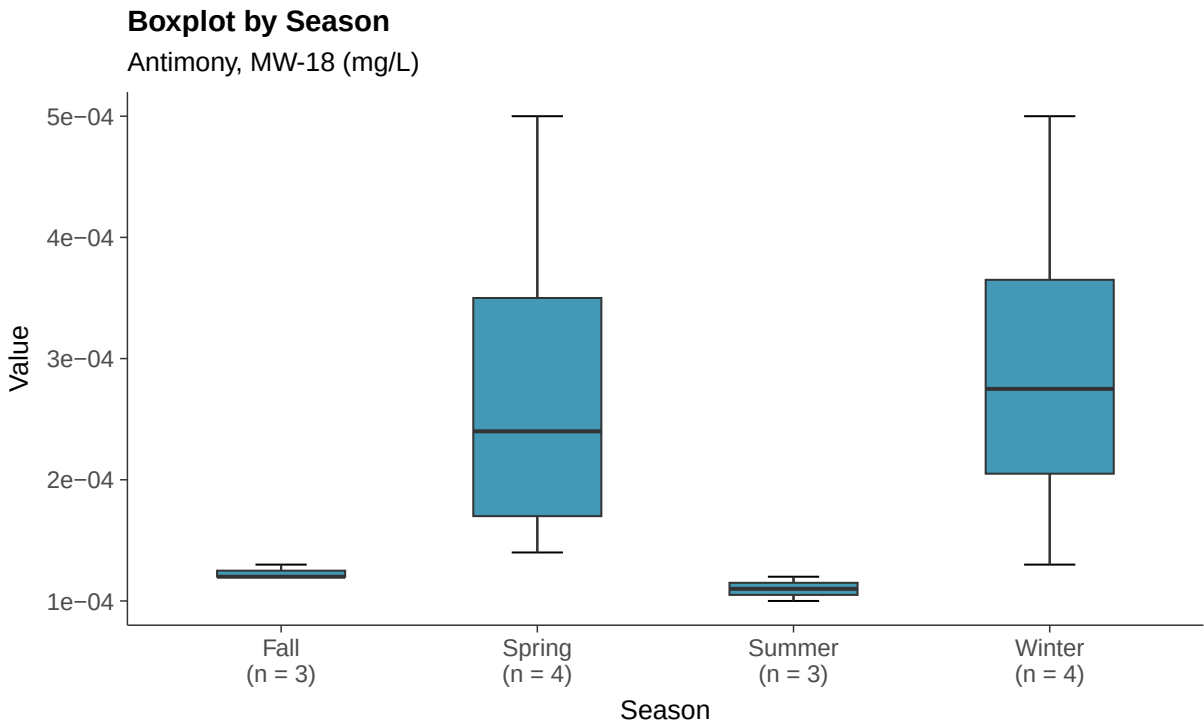
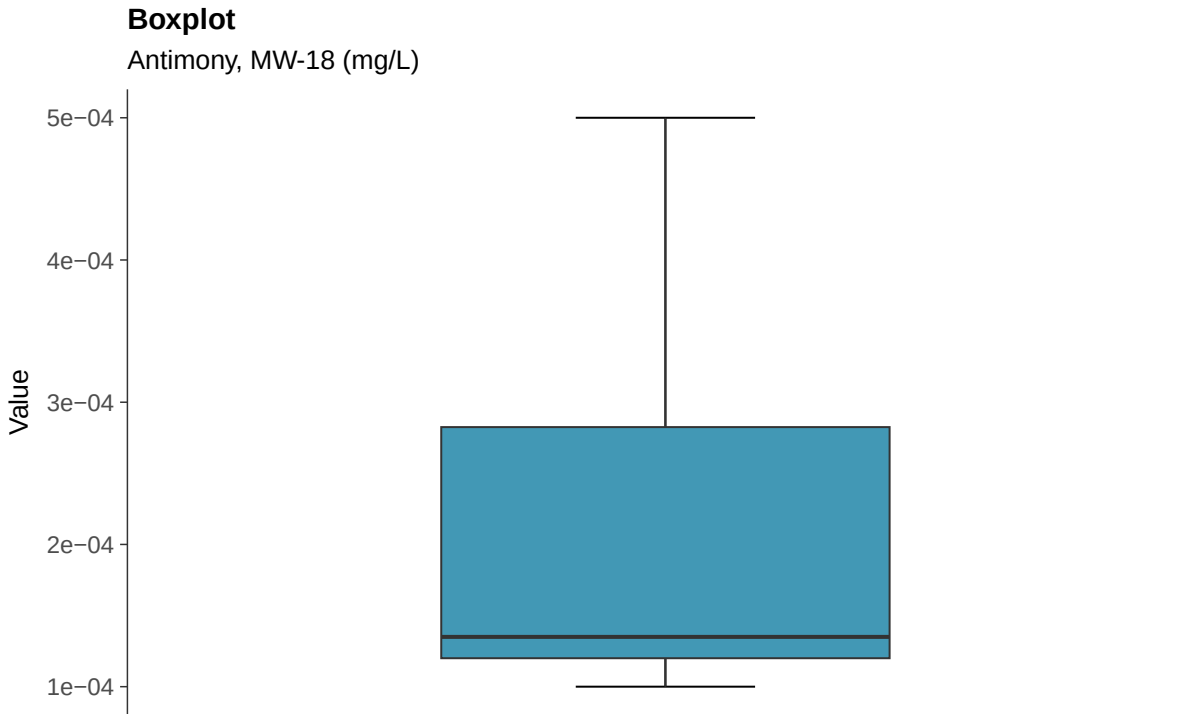




Appendix IV: Antimony, MW-18

ID: 28_1_4_101

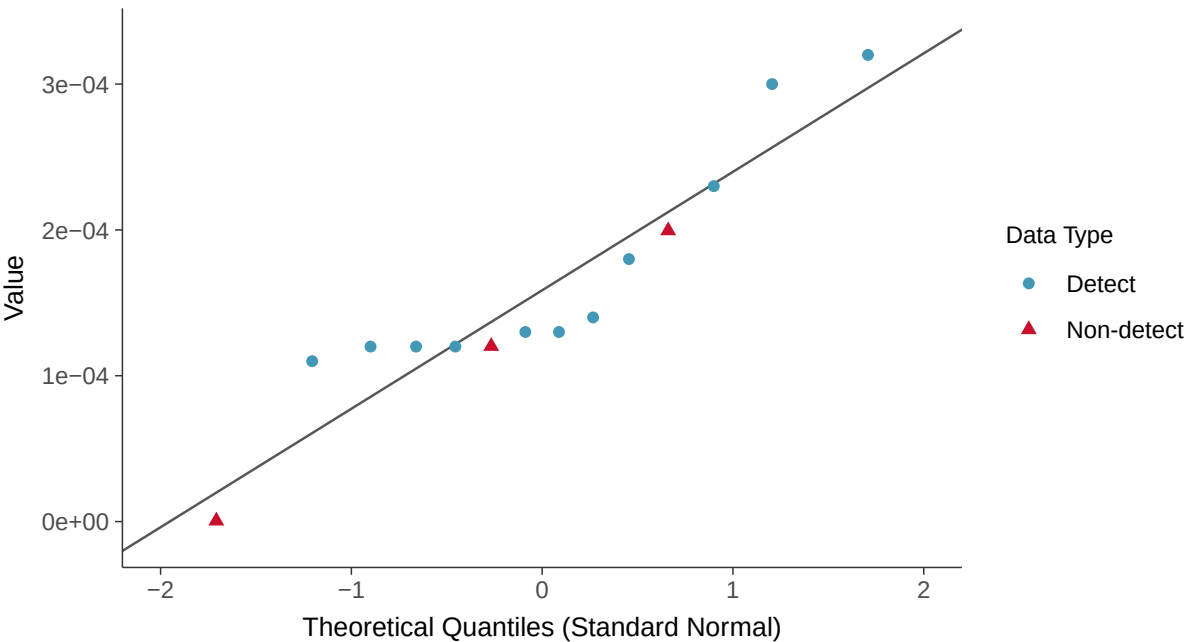






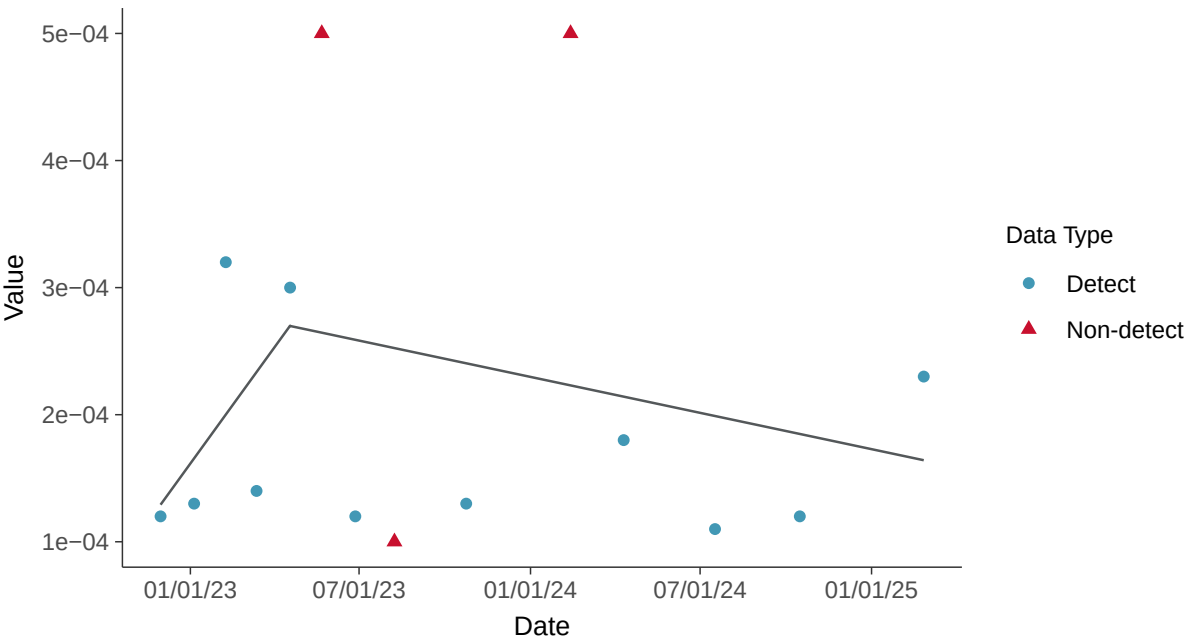
Normal Q-Q plot using ROS Imputed Estimates

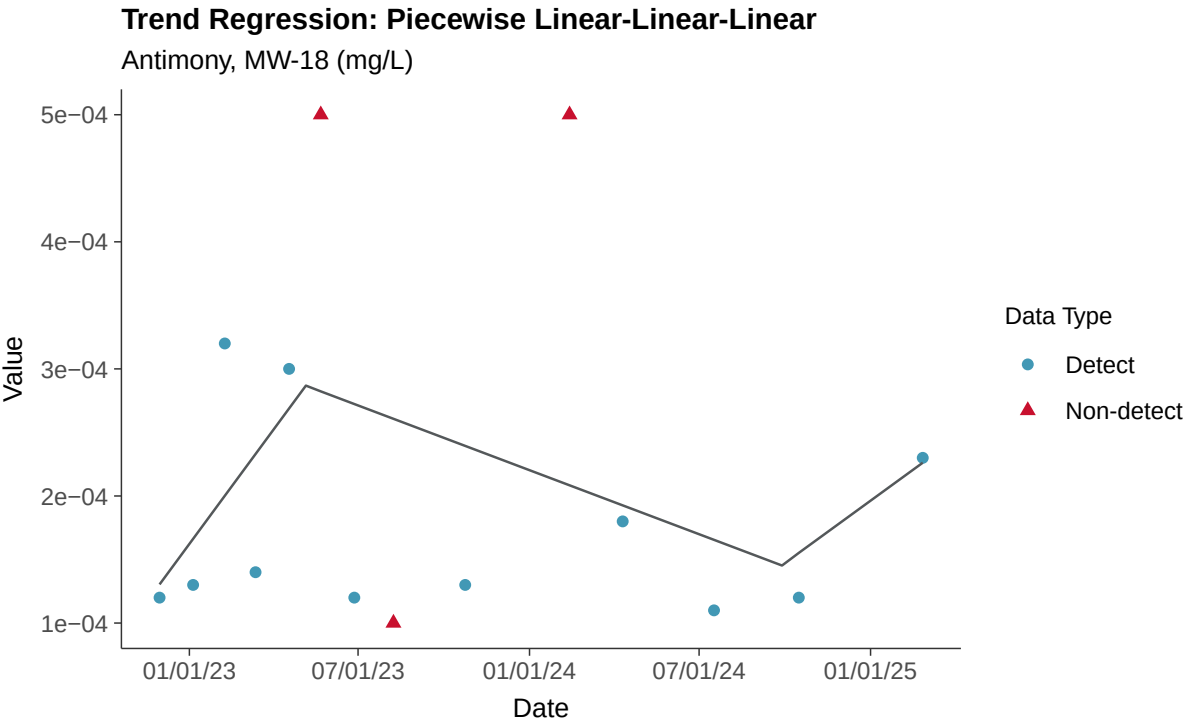
Antimony, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-18 (mg/L)

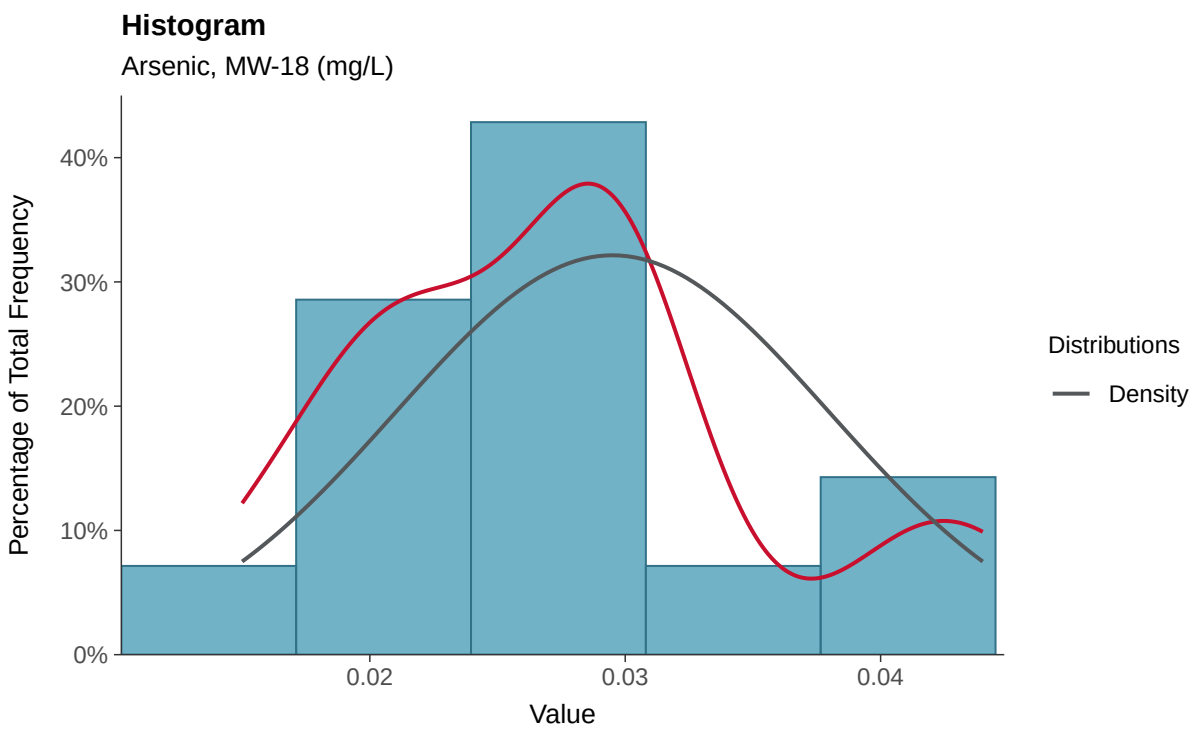
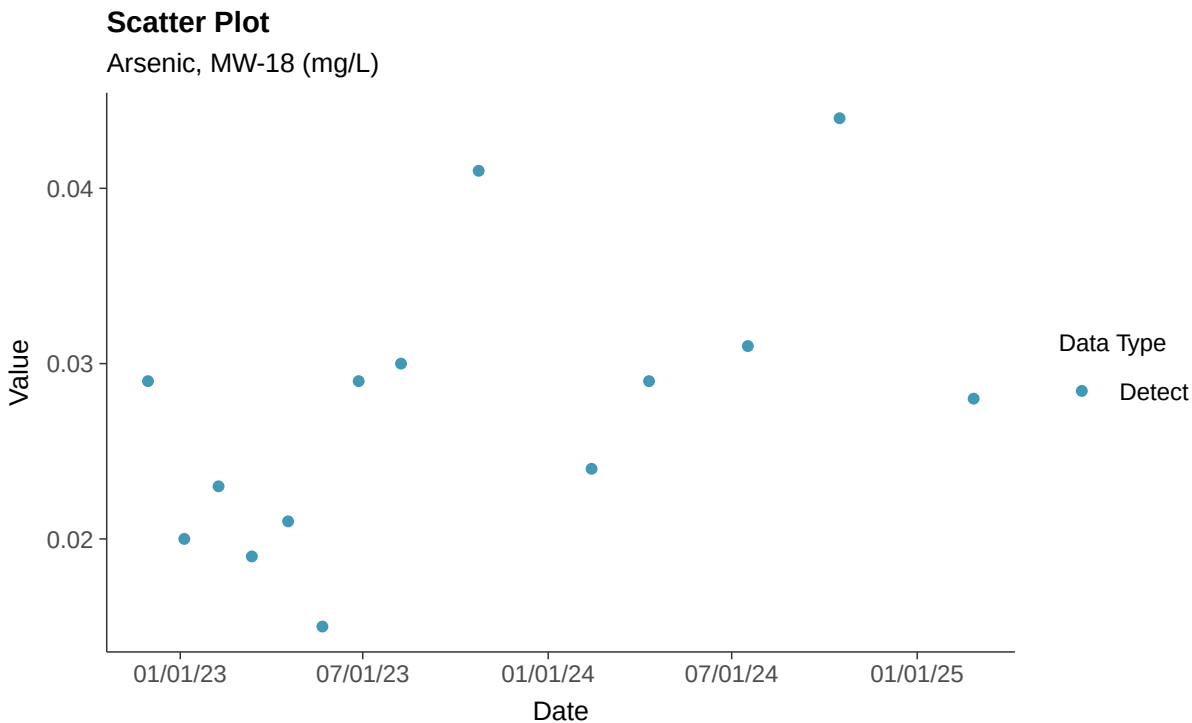


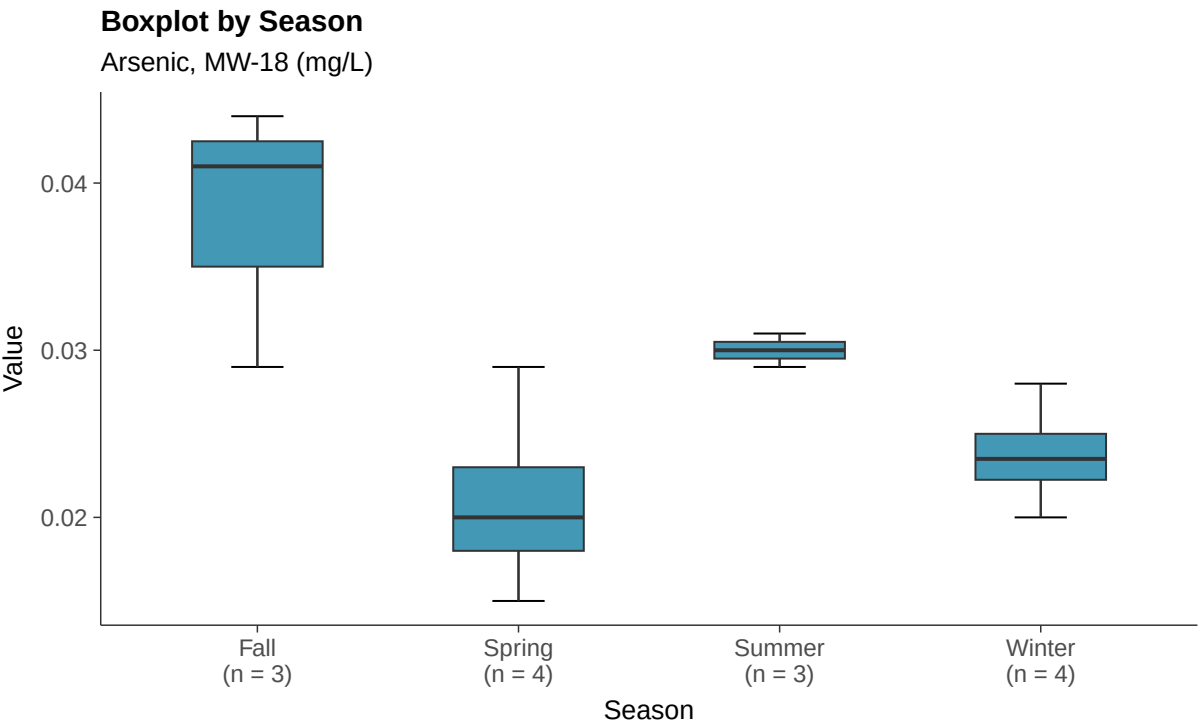
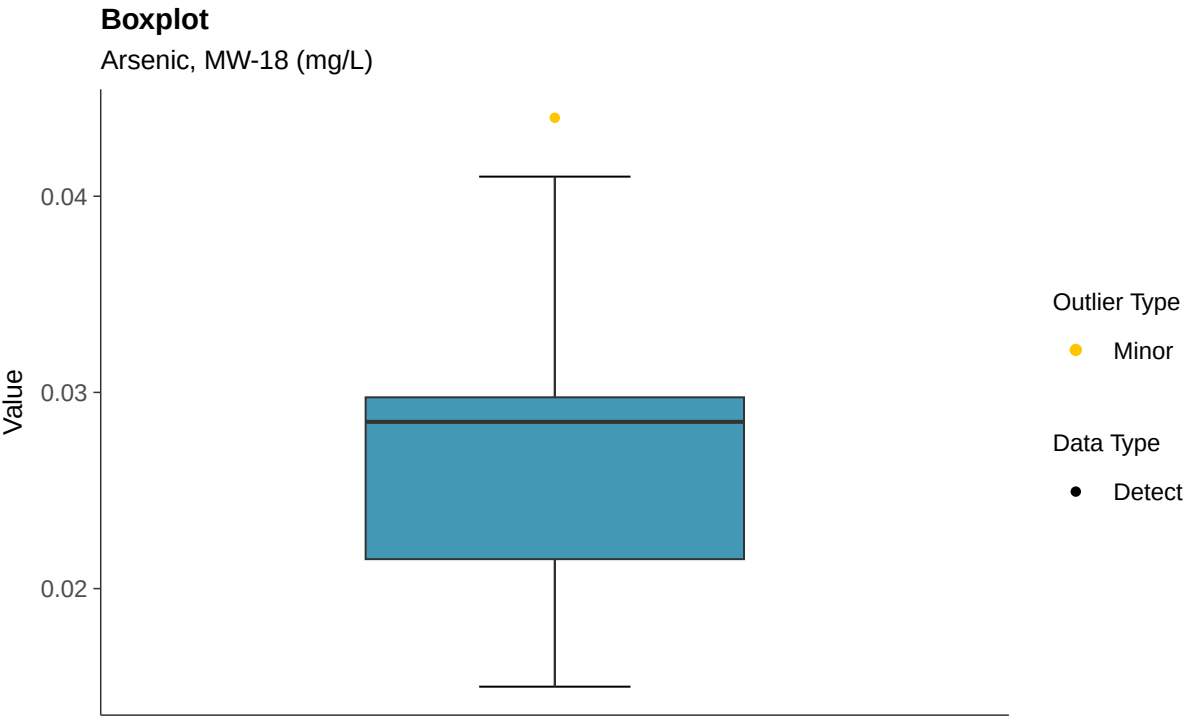


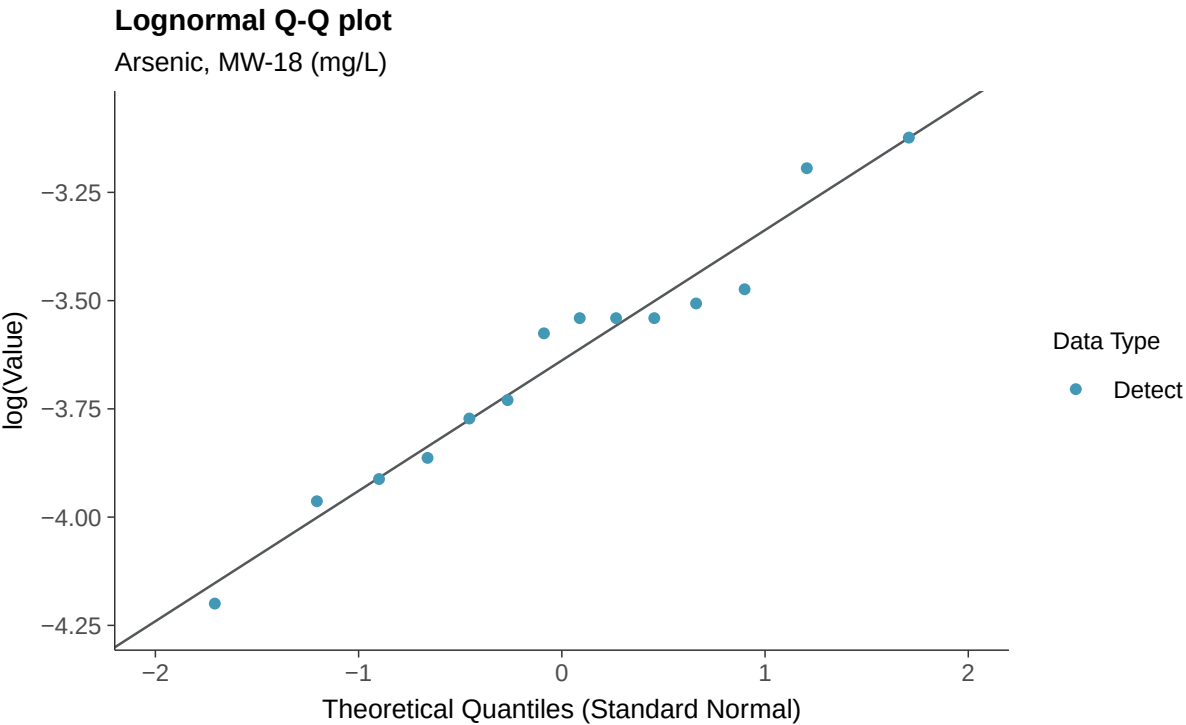
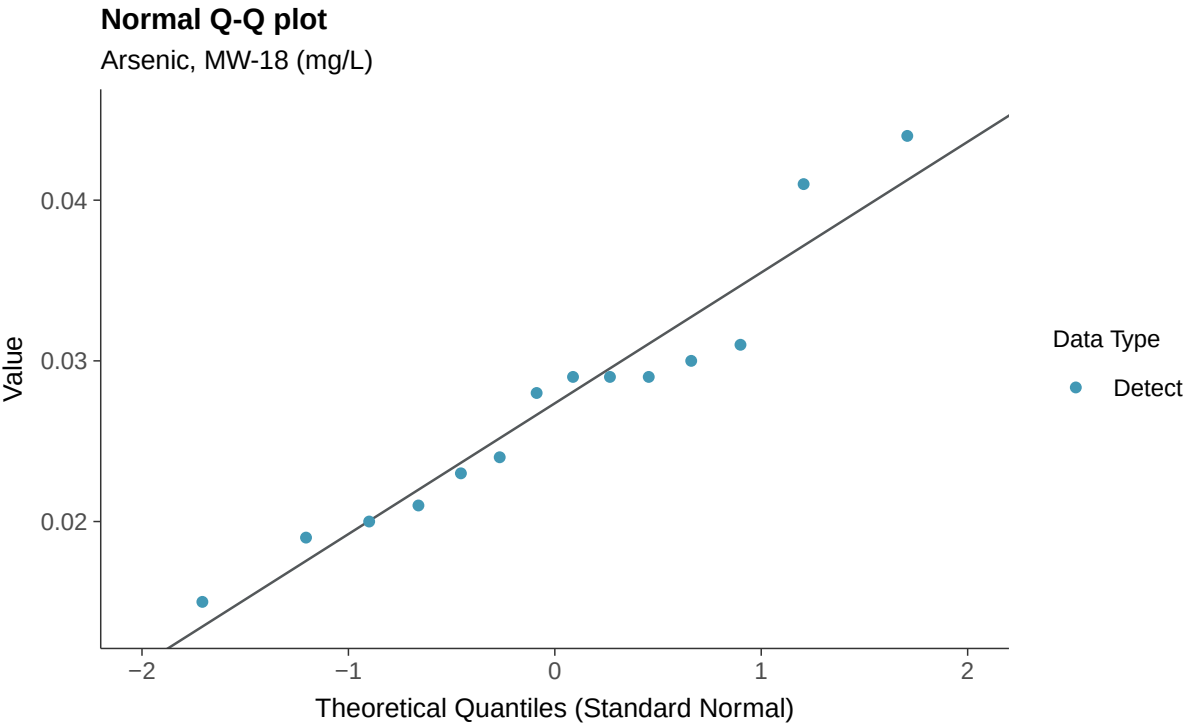


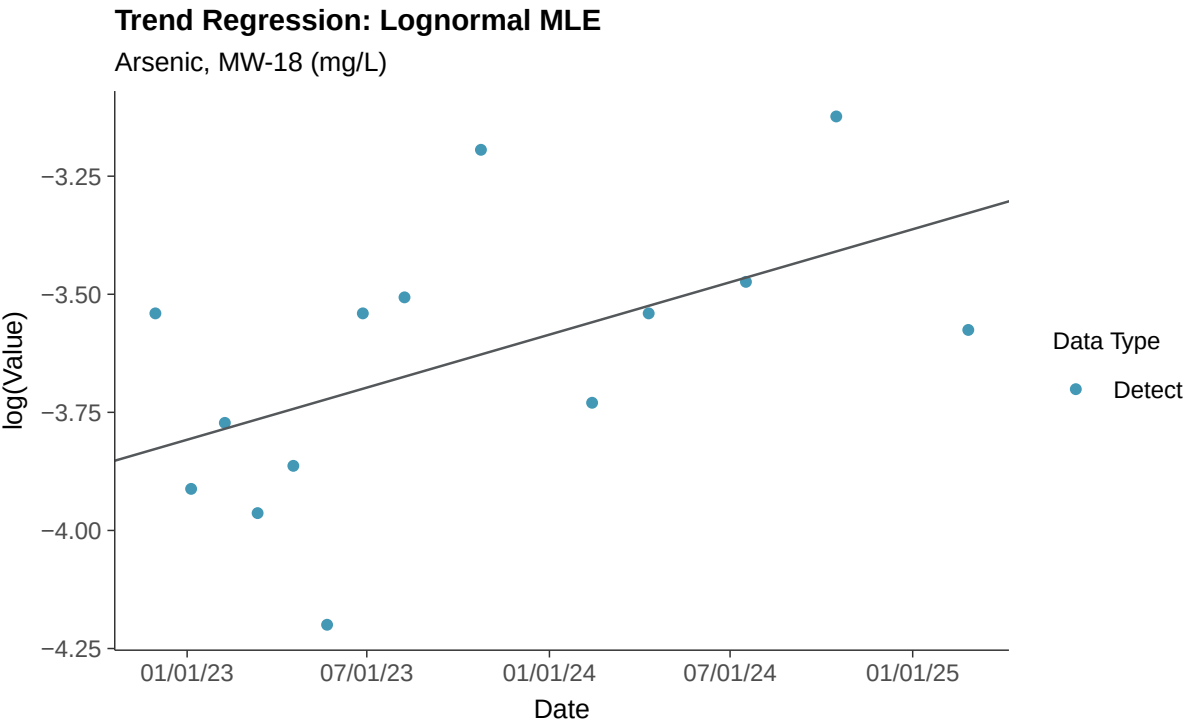
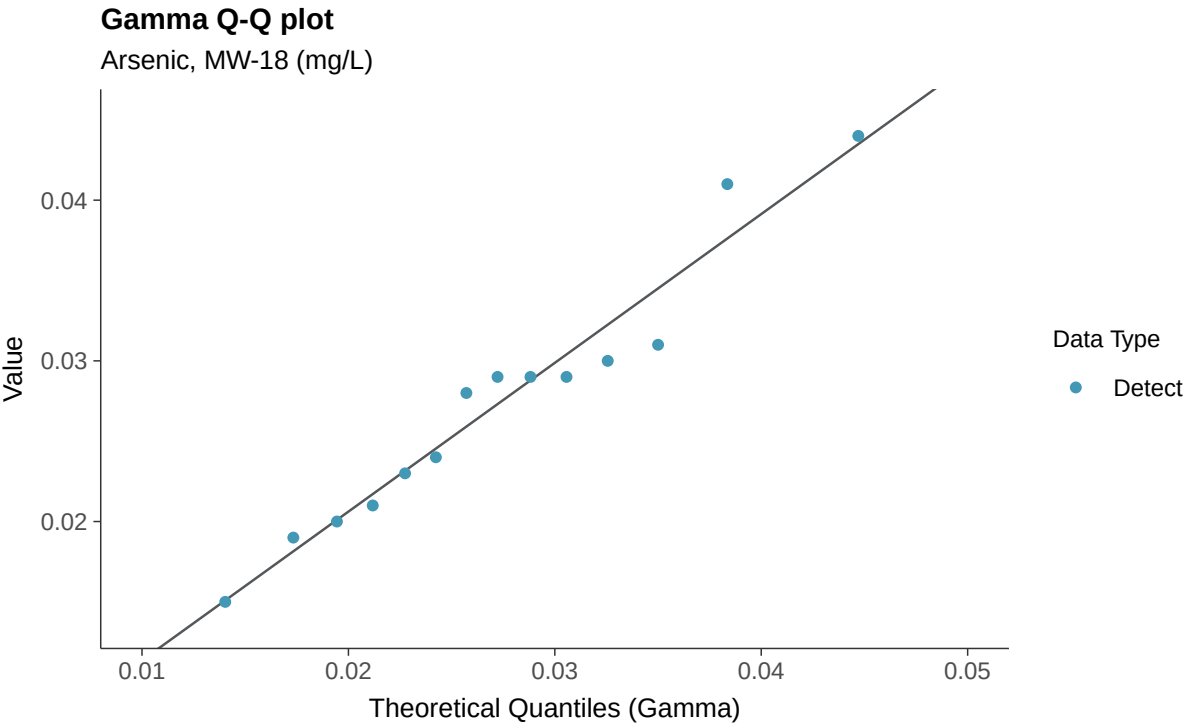
Appendix IV: Arsenic, MW-18

ID: 28_1_4_102





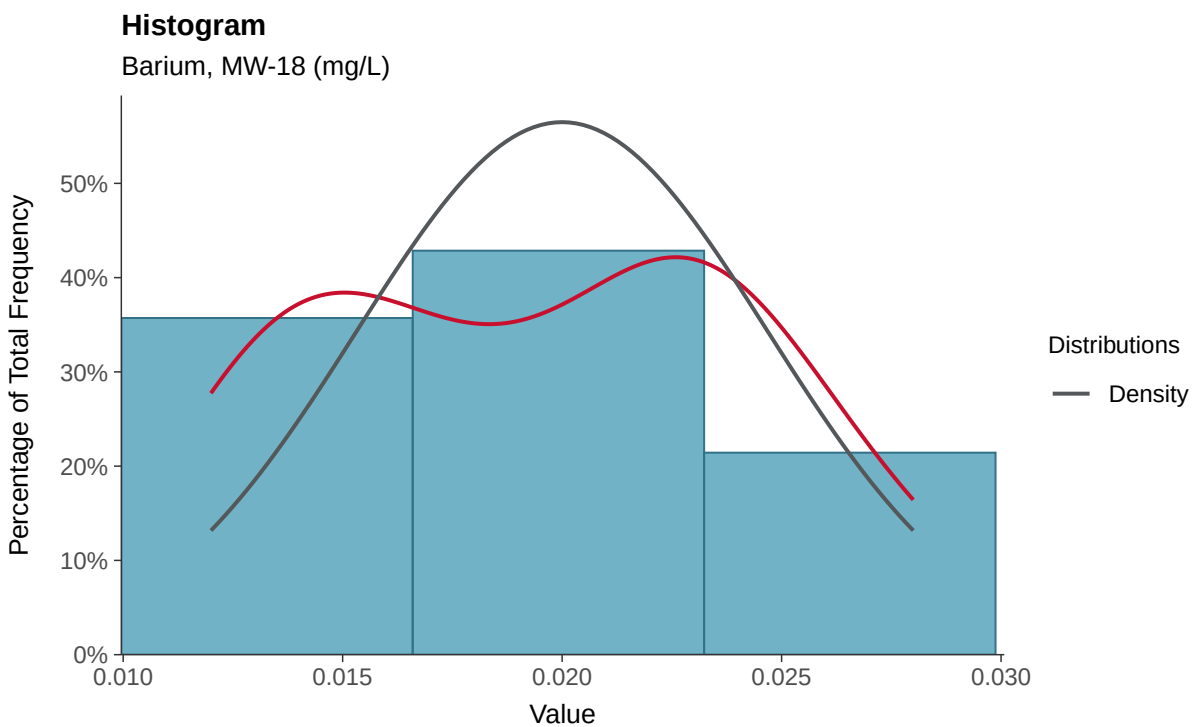
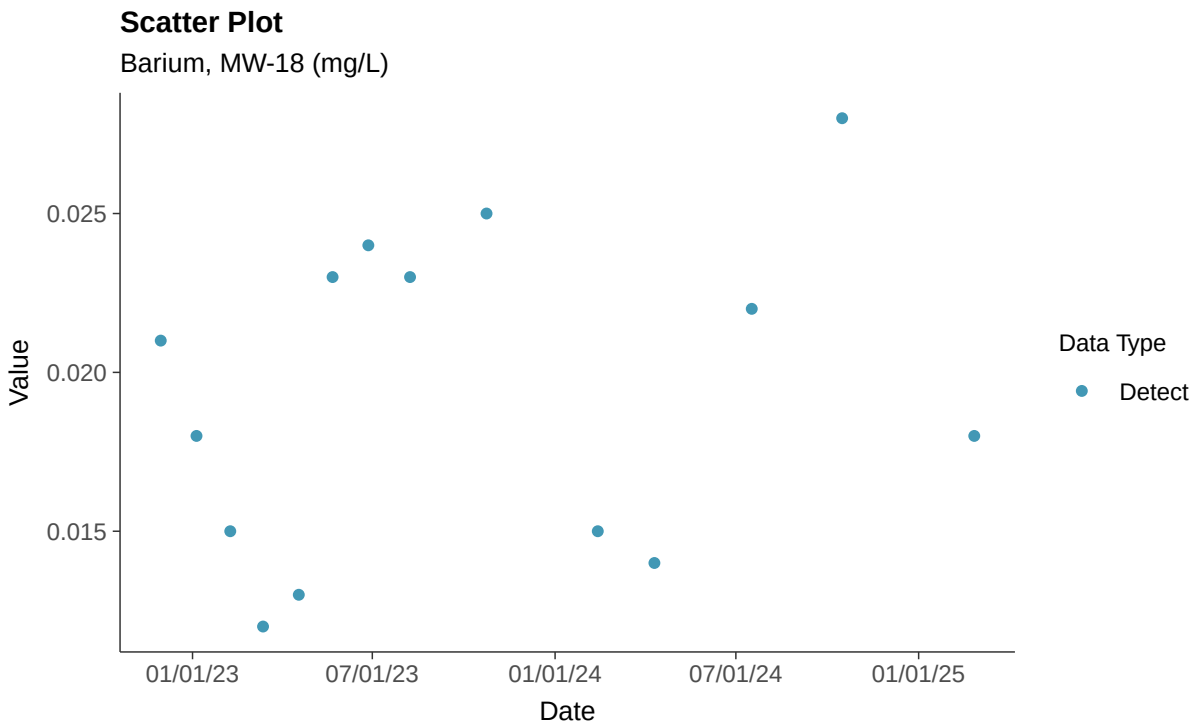


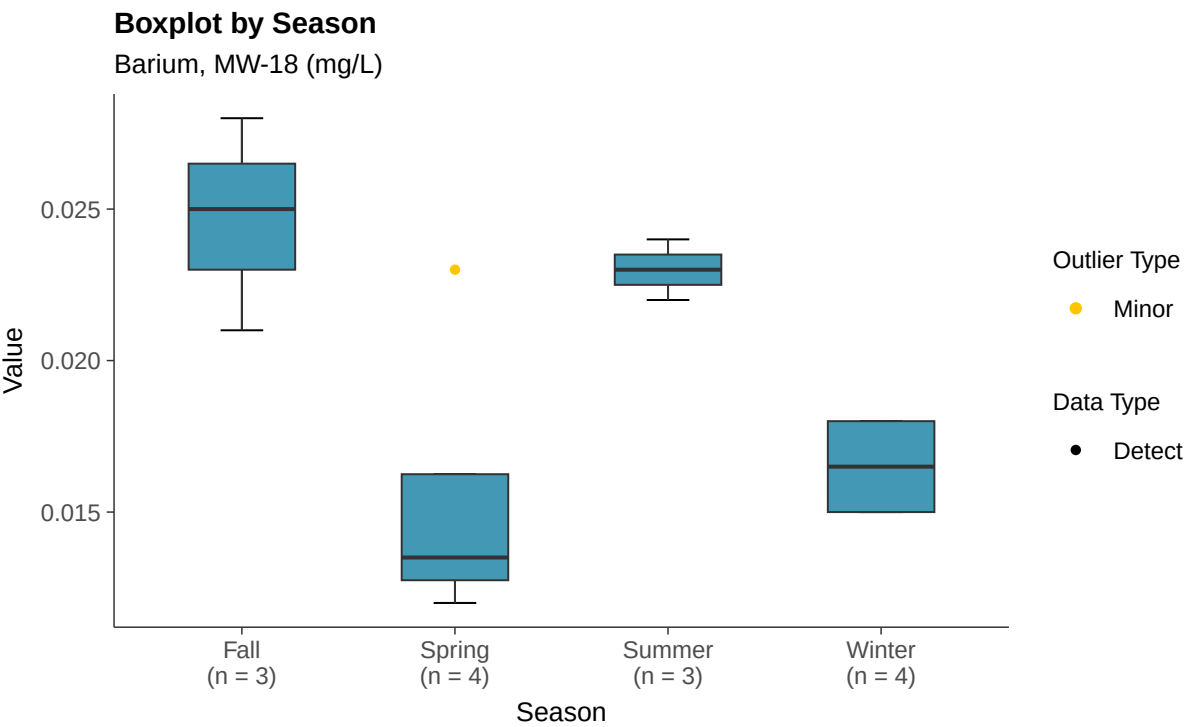
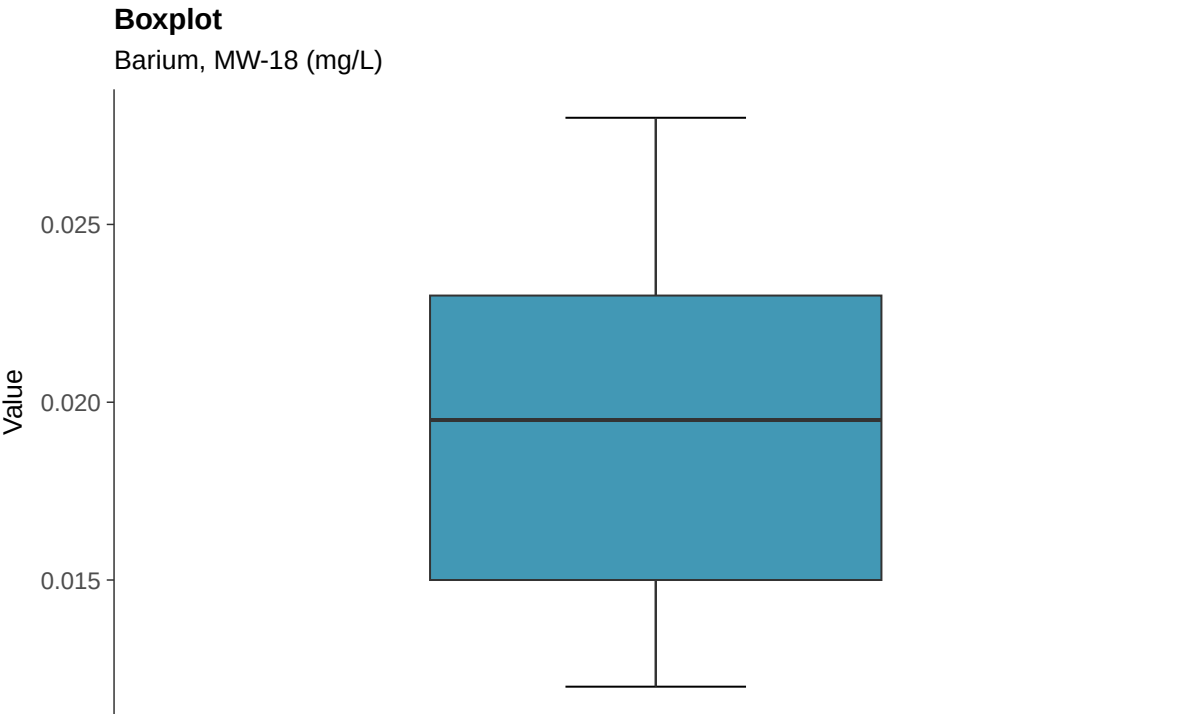


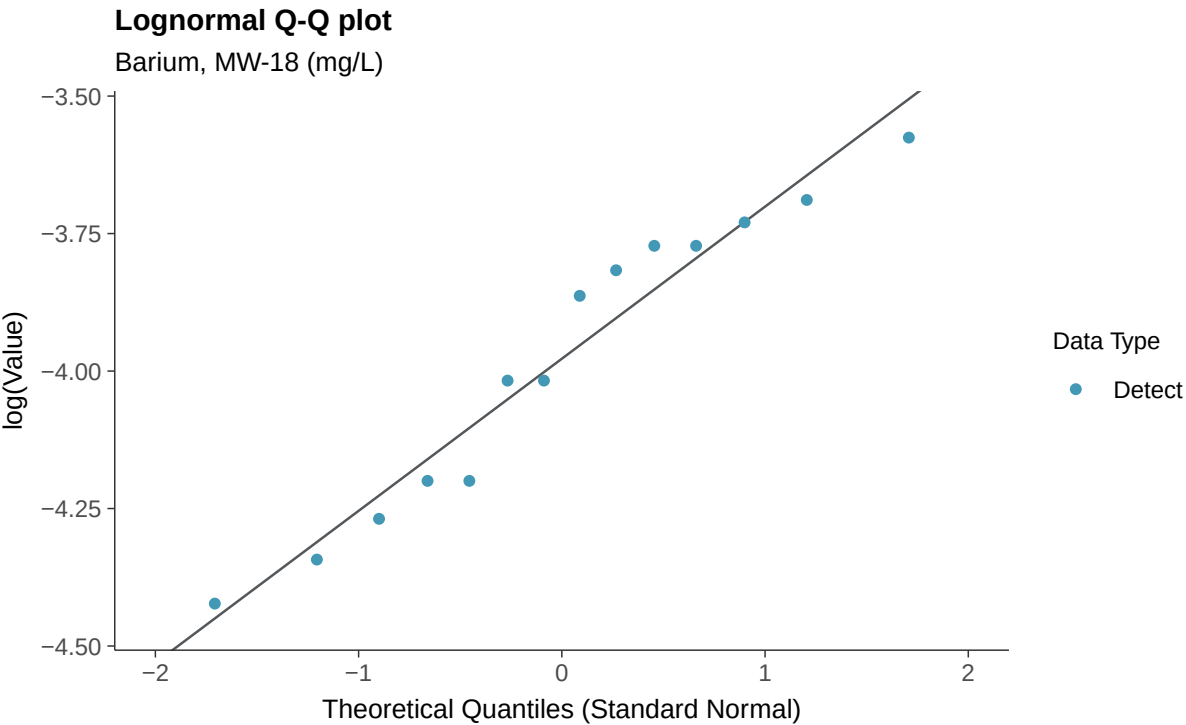
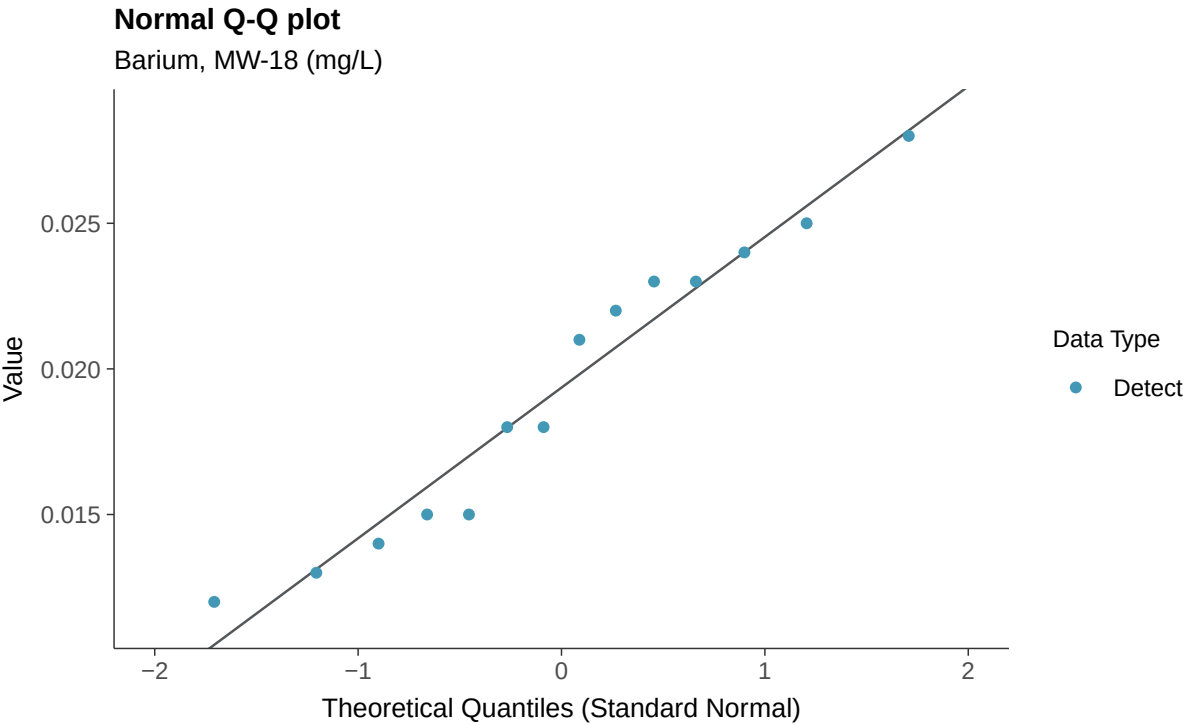


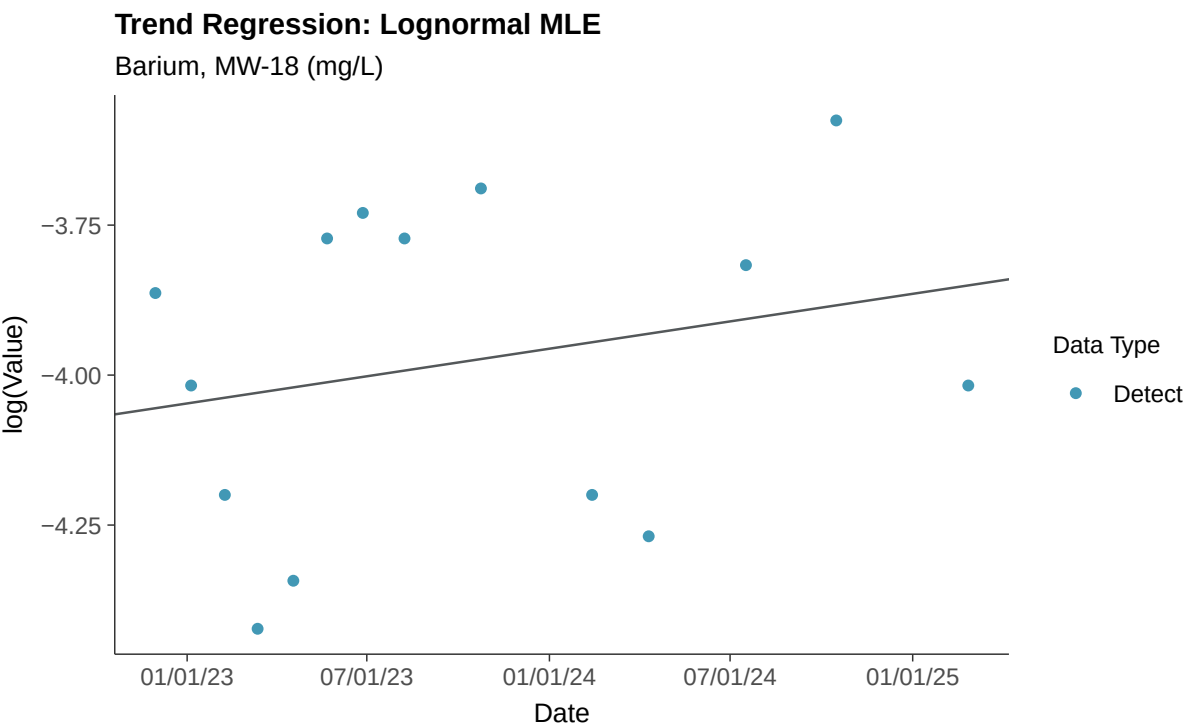
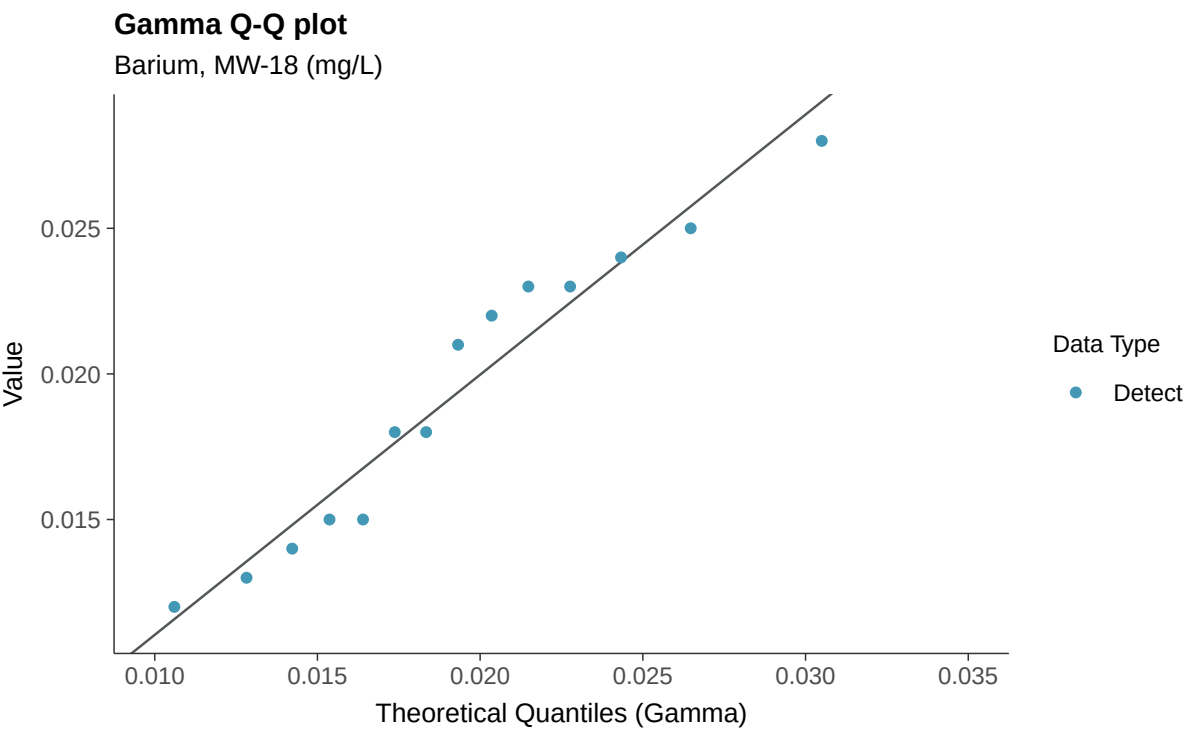
Appendix IV: Barium, MW-18

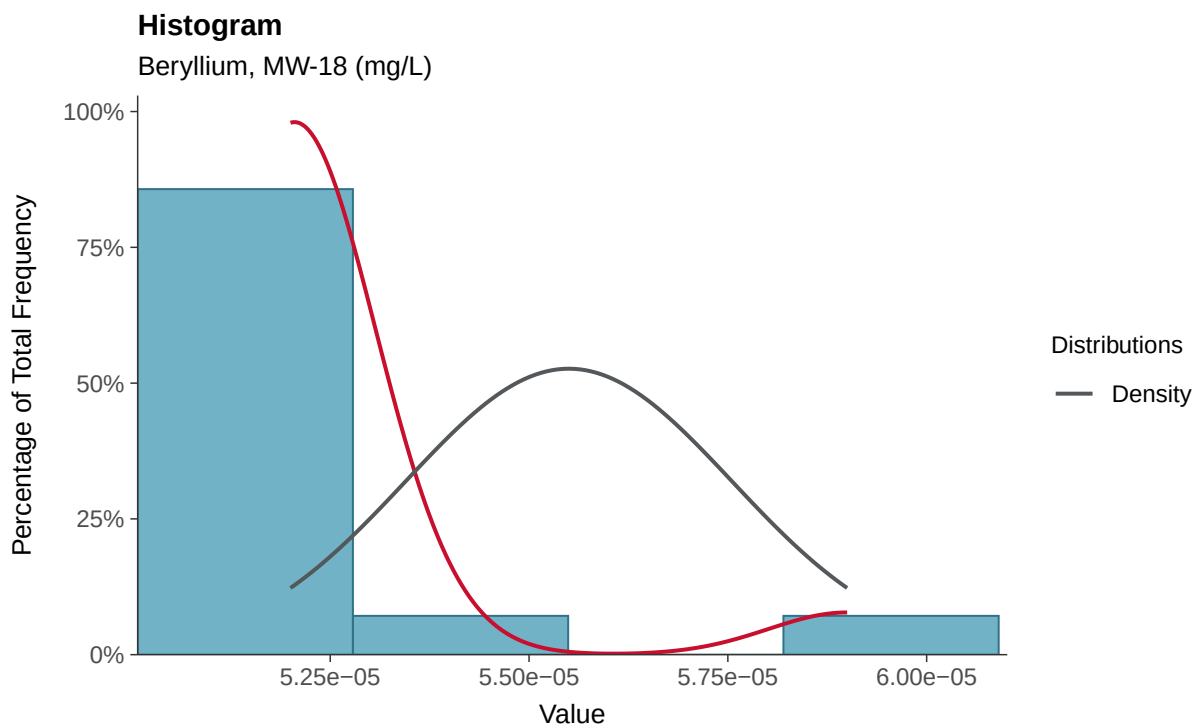
ID: 28_1_4_103

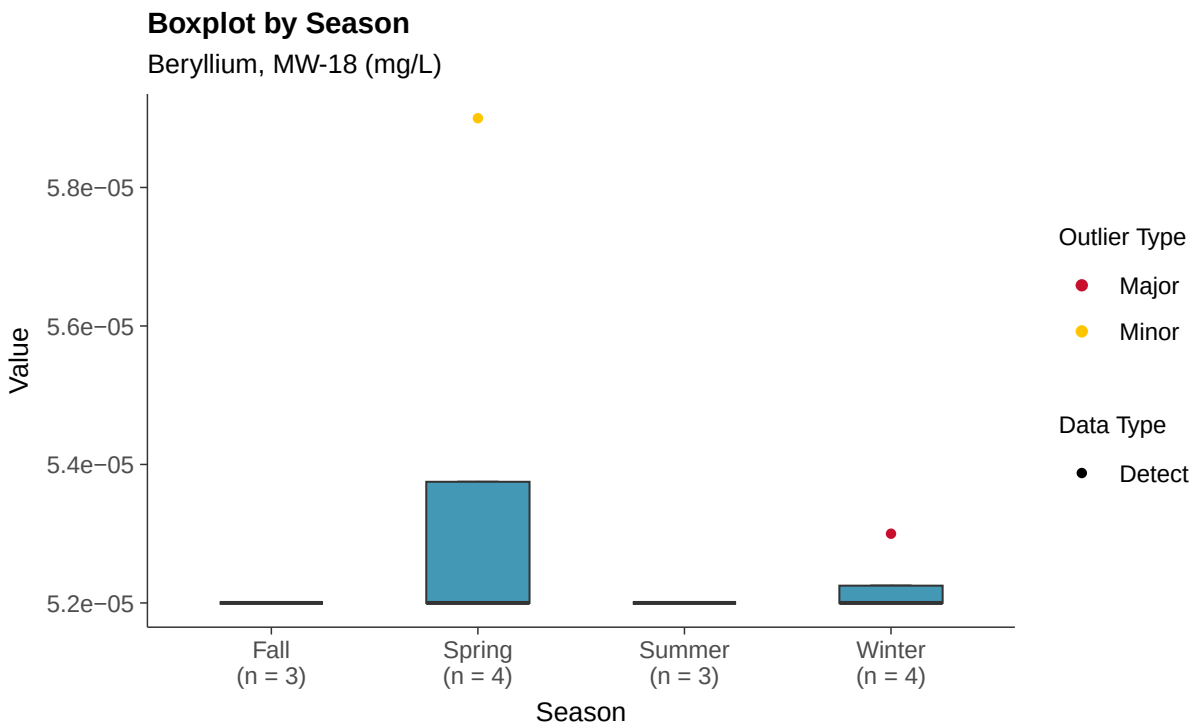
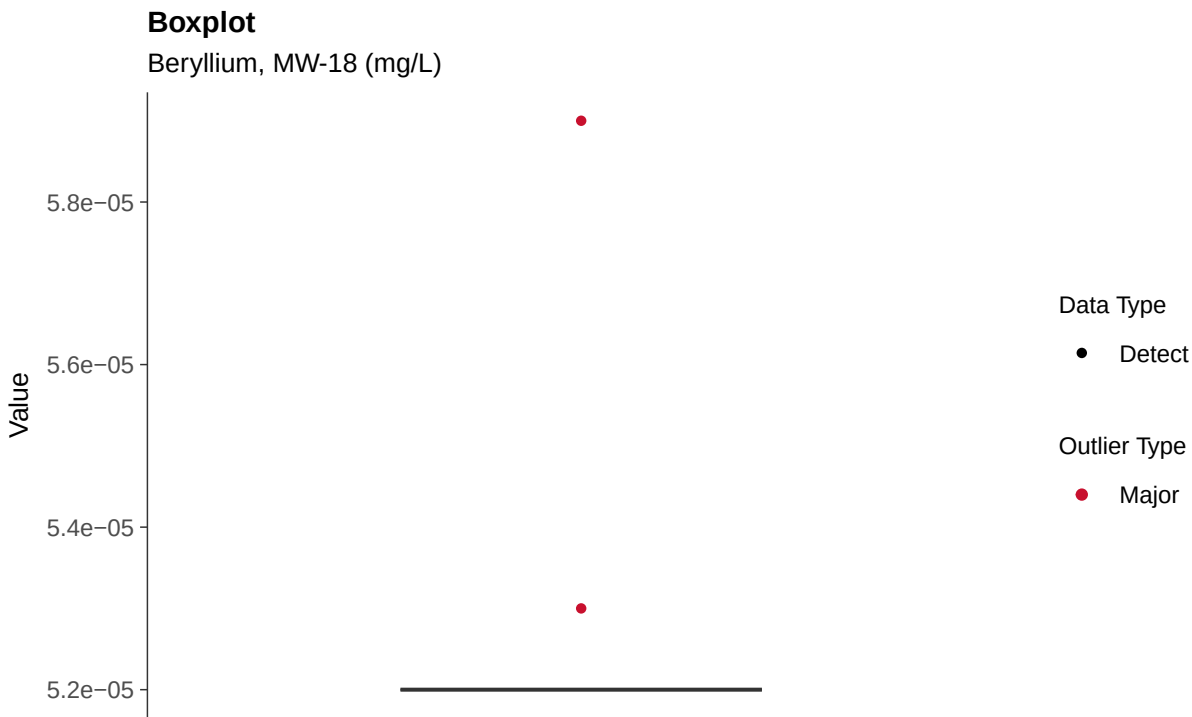


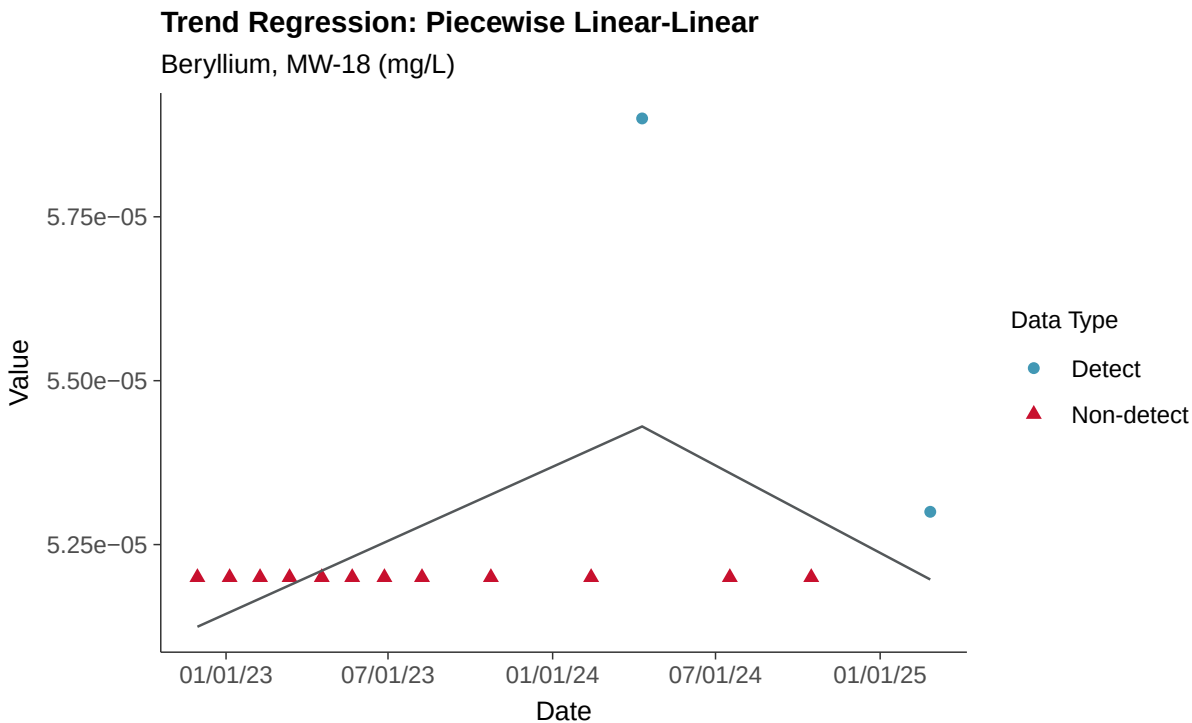
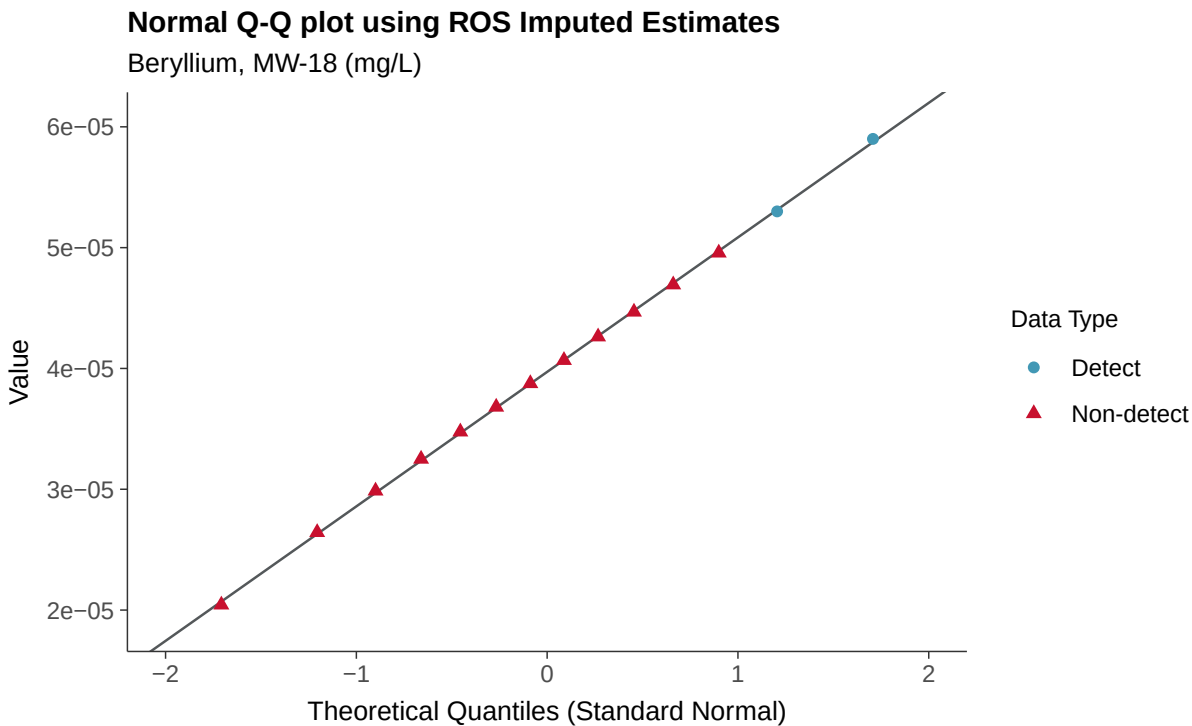




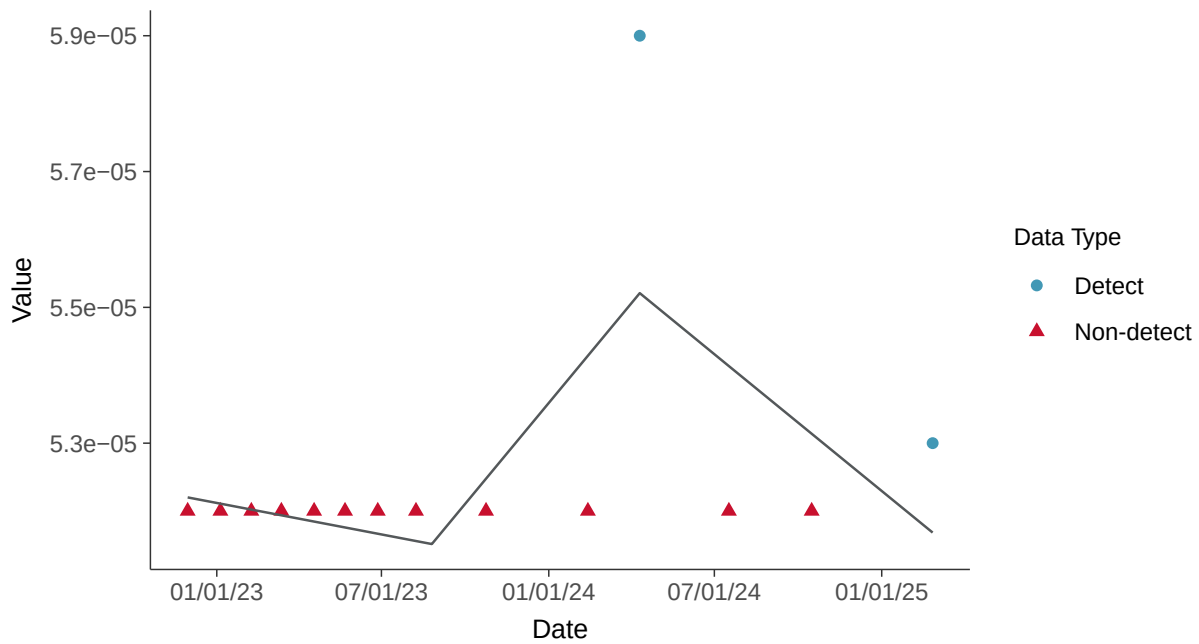








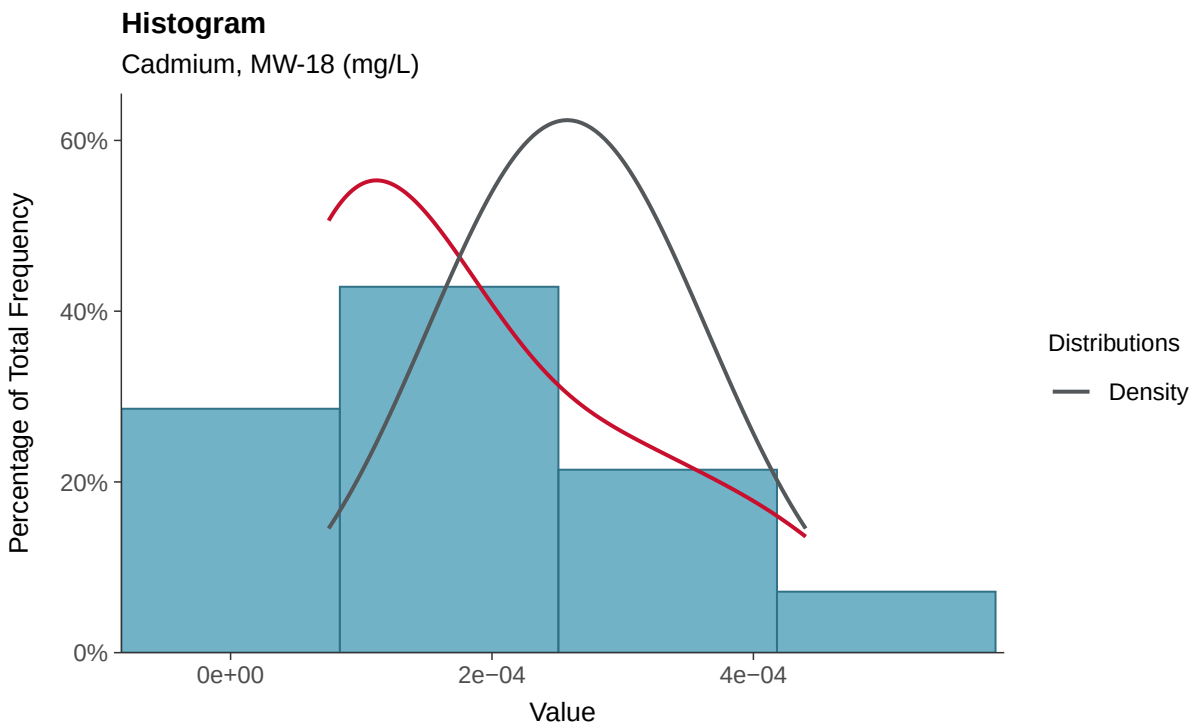
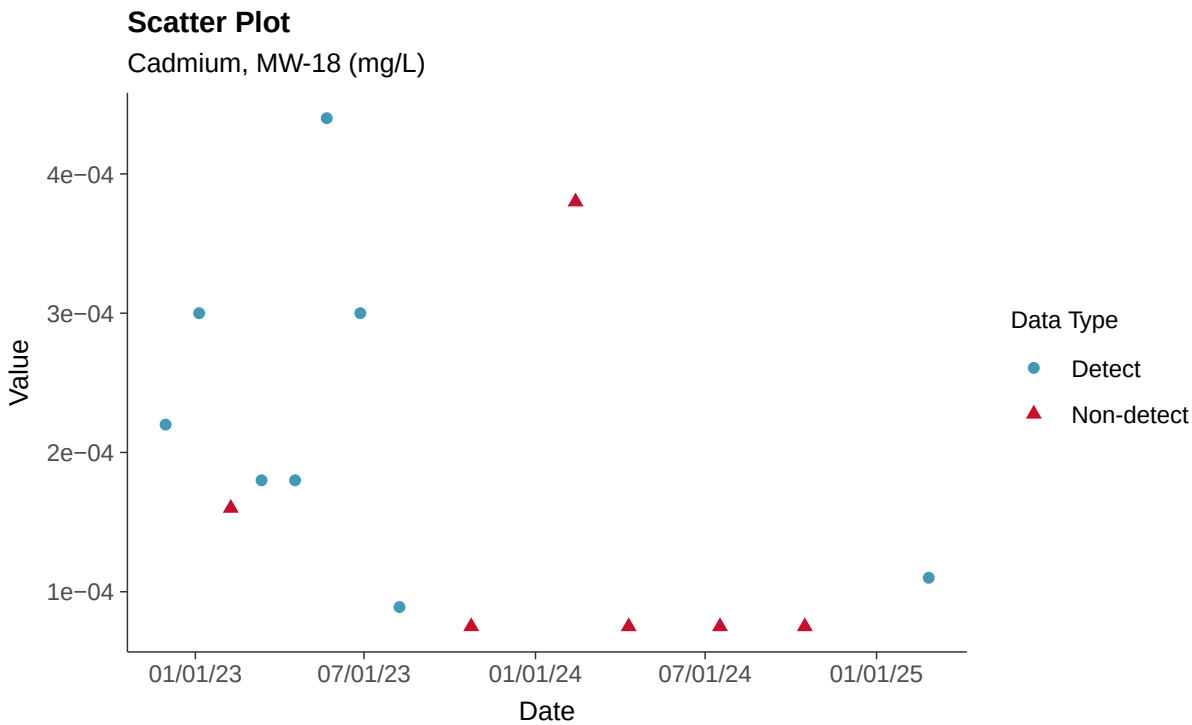
Beryllium, MW-18 (mg/L)

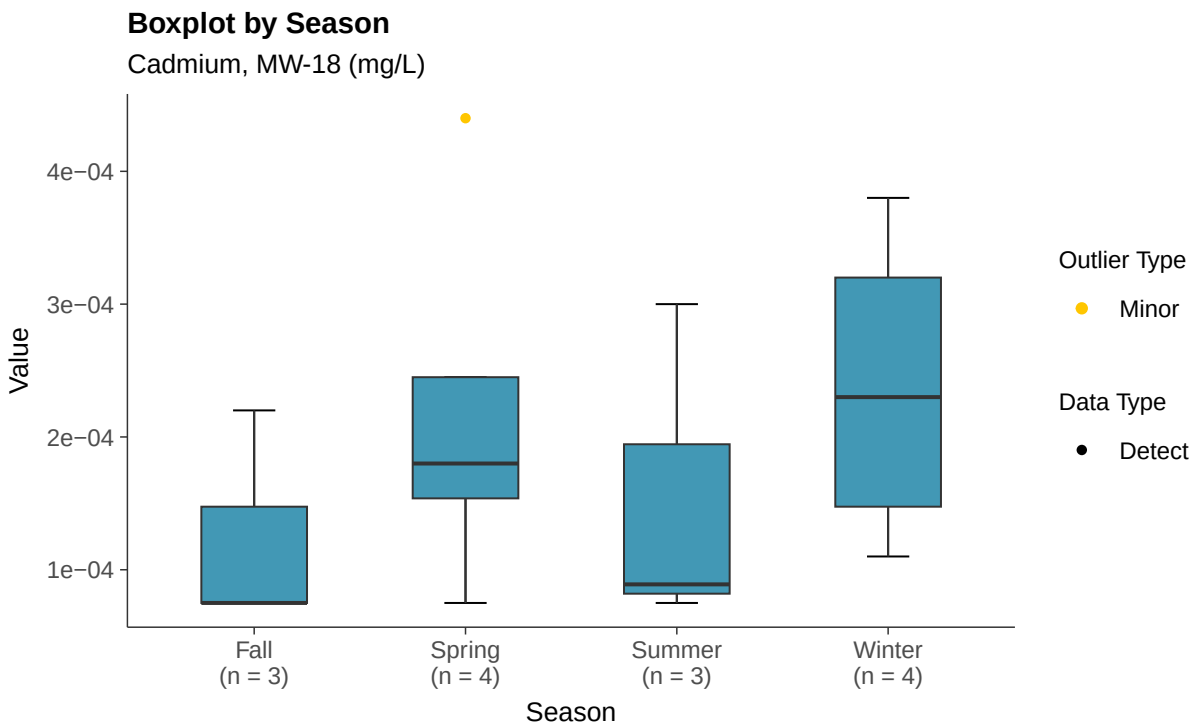
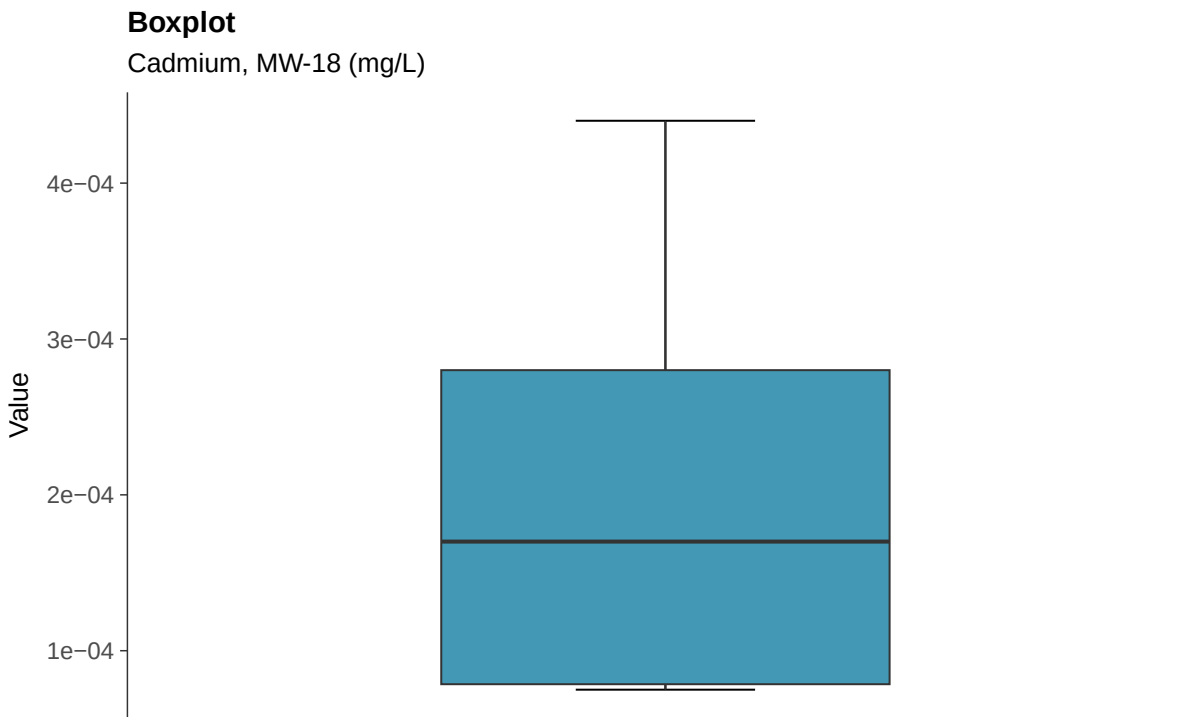




Appendix IV: Cadmium, MW-18

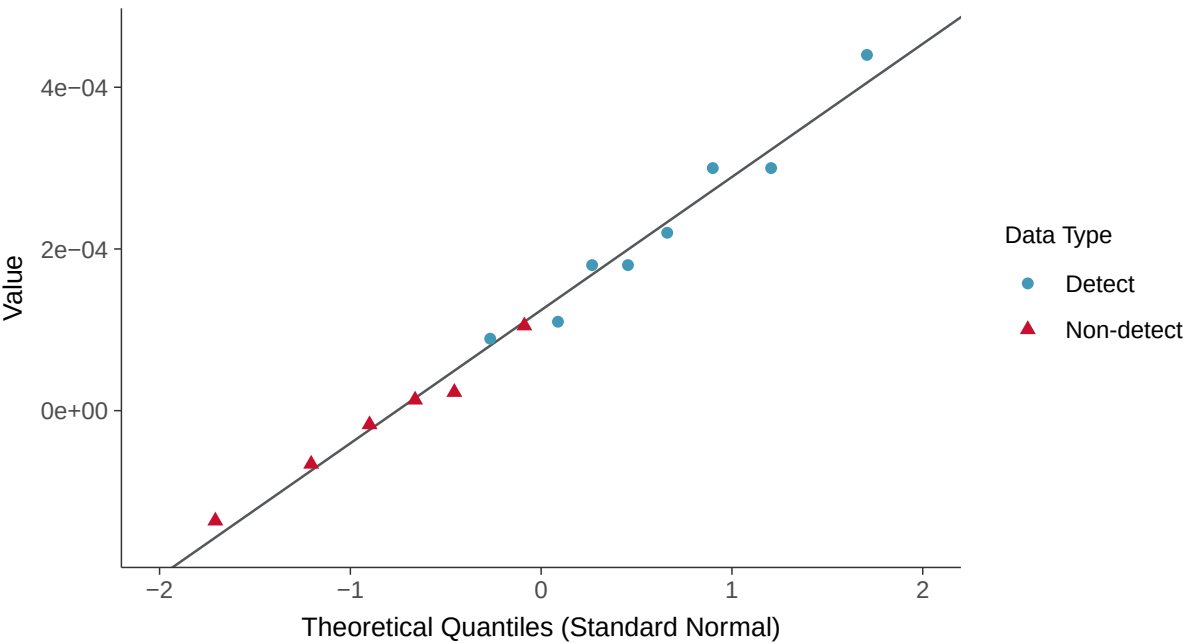
ID: 28_1_4_106



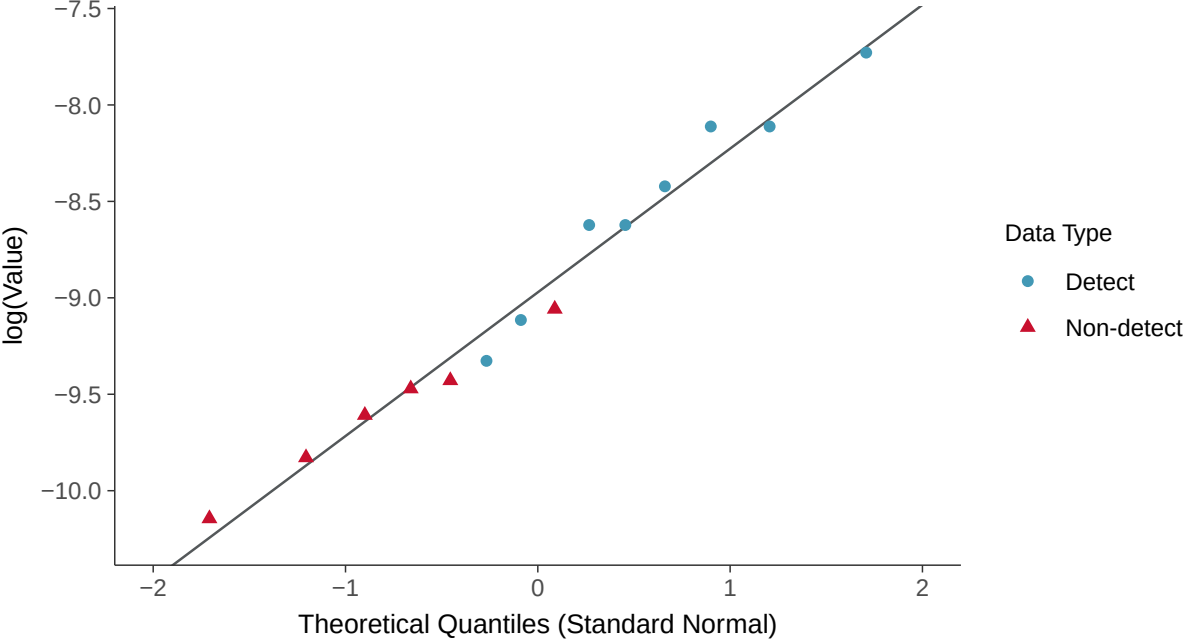




Normal Q-Q plot using ROS Imputed Estimates
Cadmium, MW-18 (mg/L)



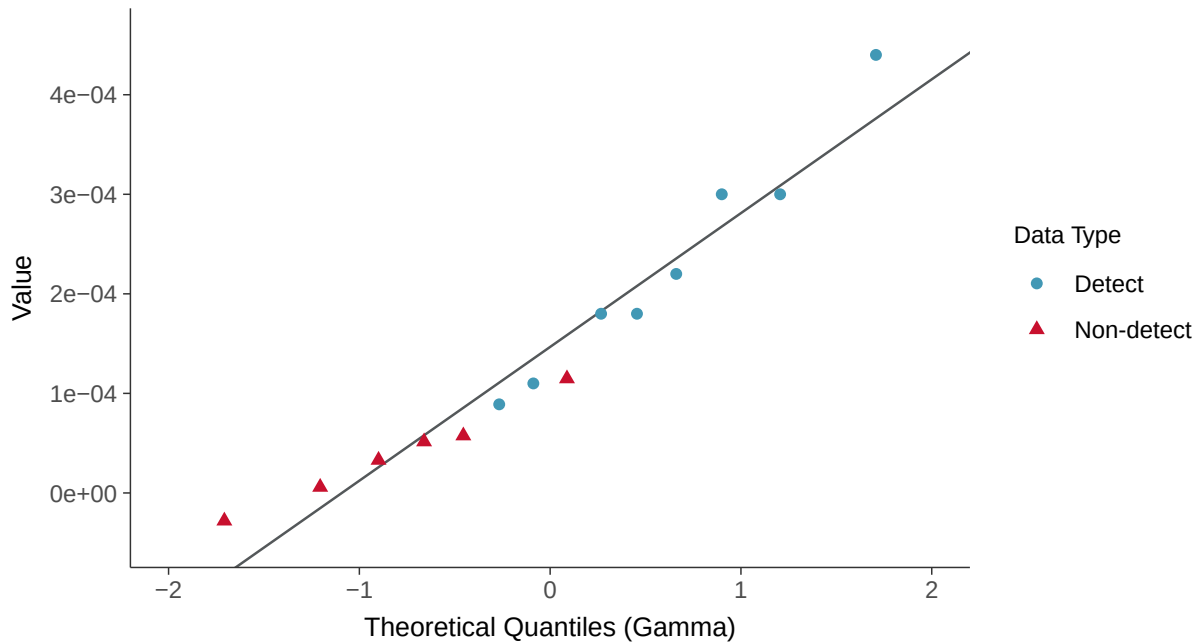
Lognormal Q-Q plot using ROS Imputed Estimates
Cadmium, MW-18 (mg/L)





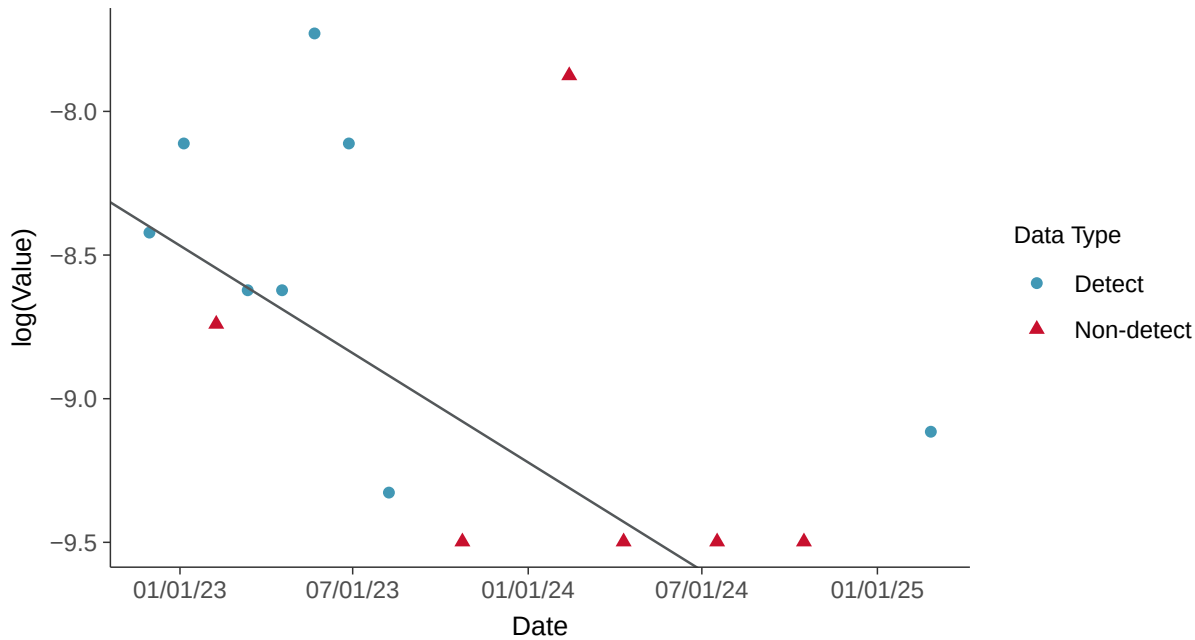
Gamma Q-Q plot using ROS Imputed Estimates

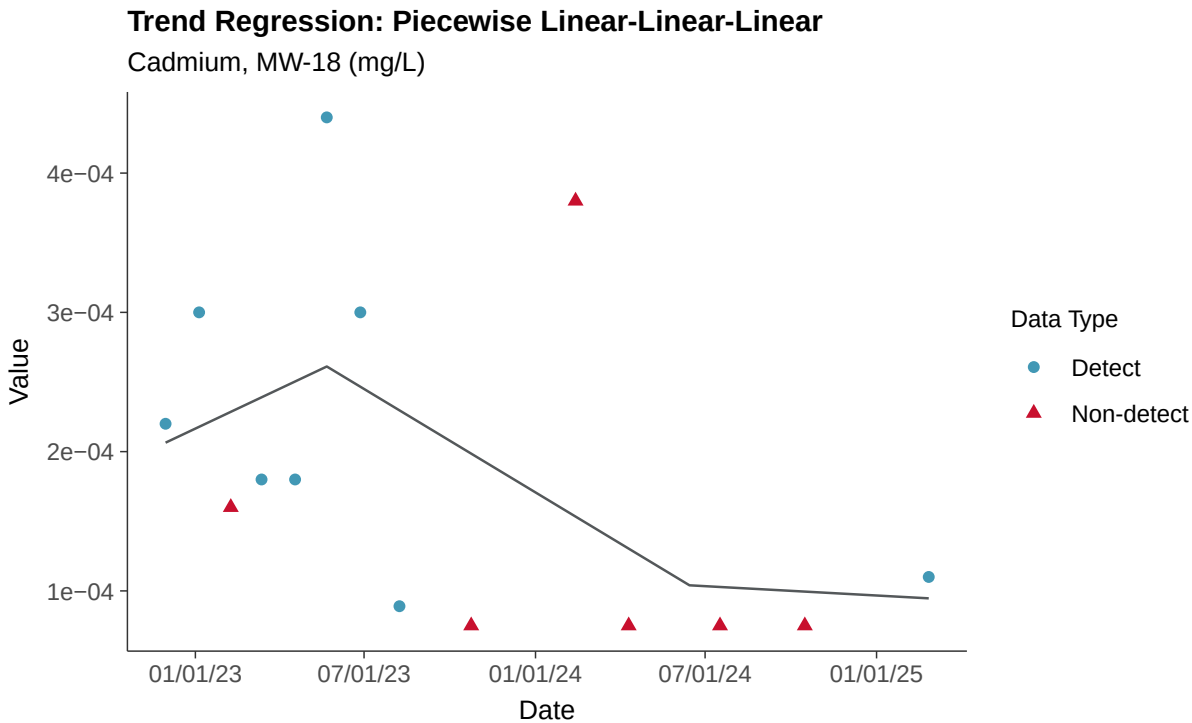
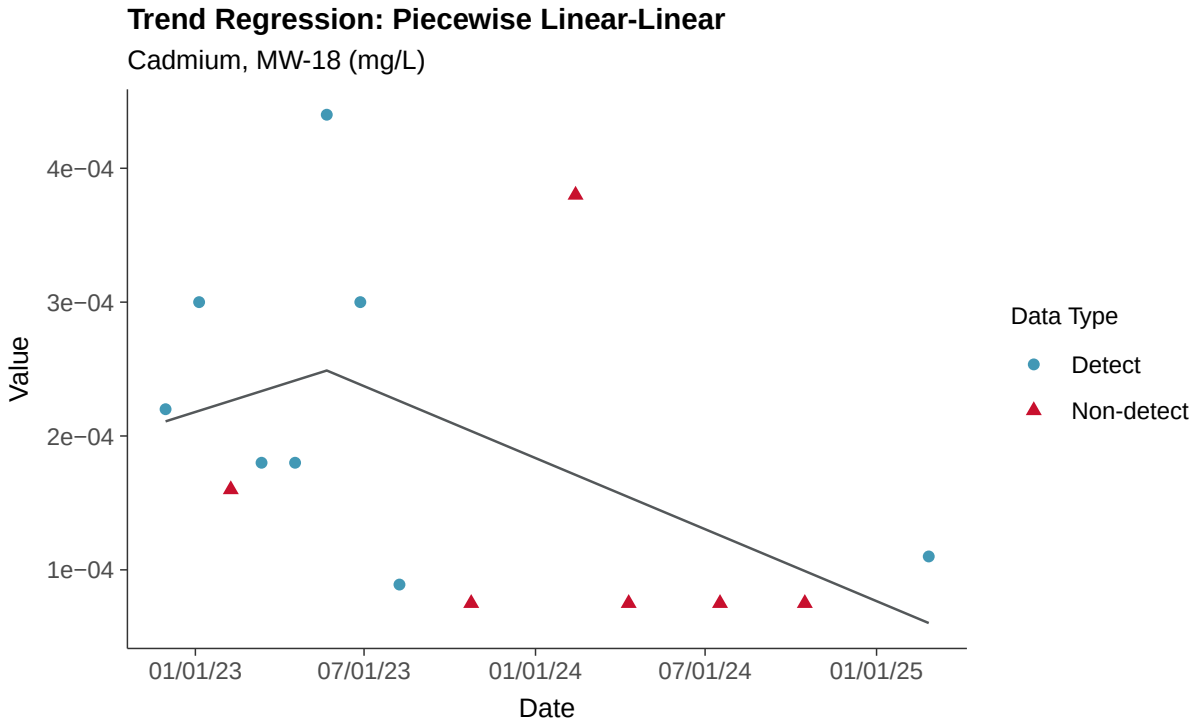
Cadmium, MW-18 (mg/L)



Trend Regression: Lognormal MLE

Cadmium, MW-18 (mg/L)

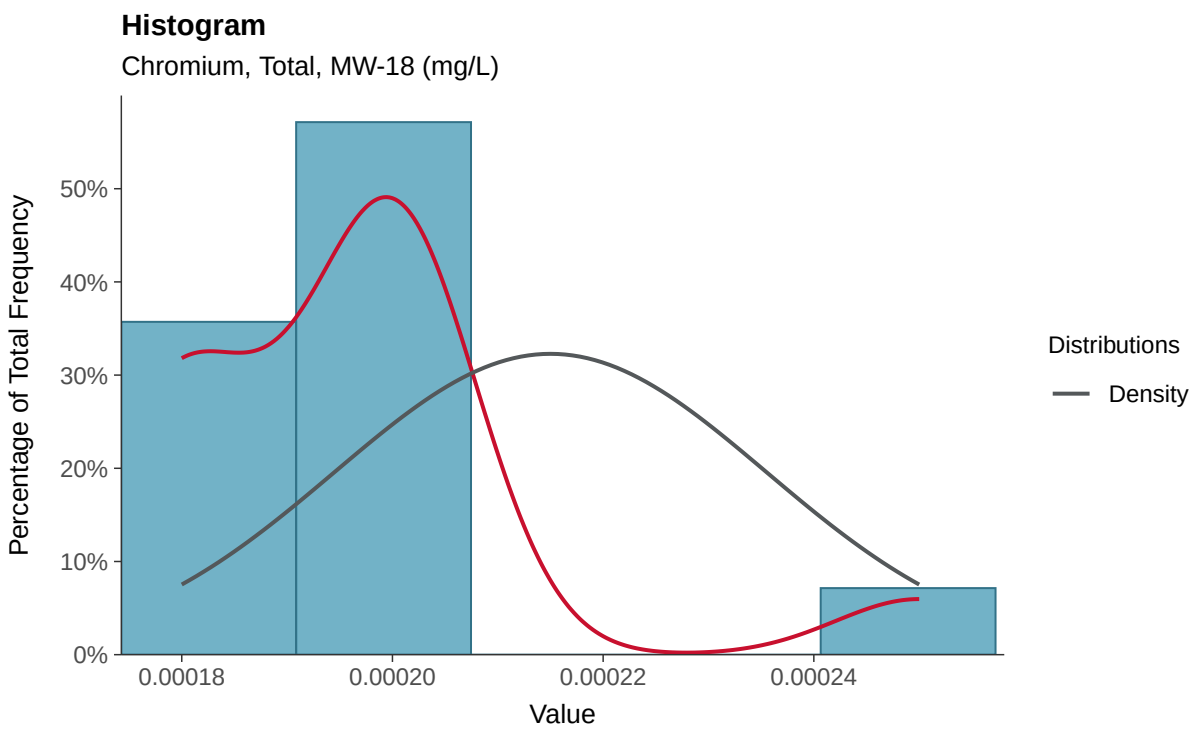
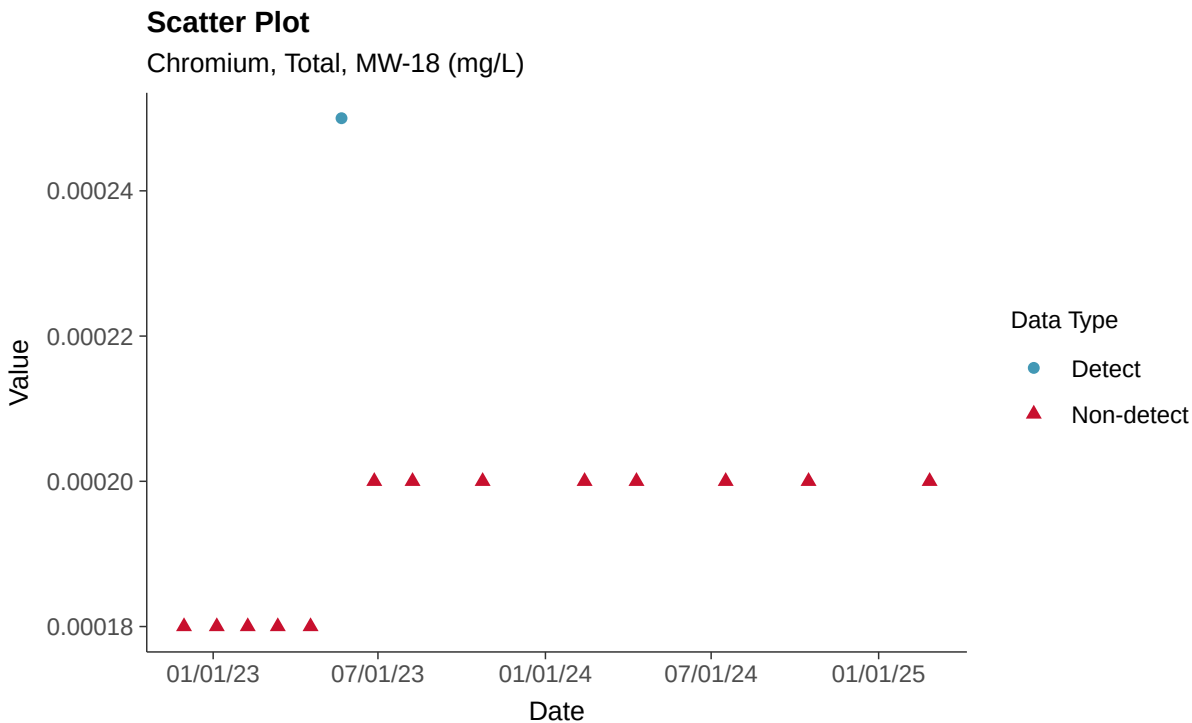


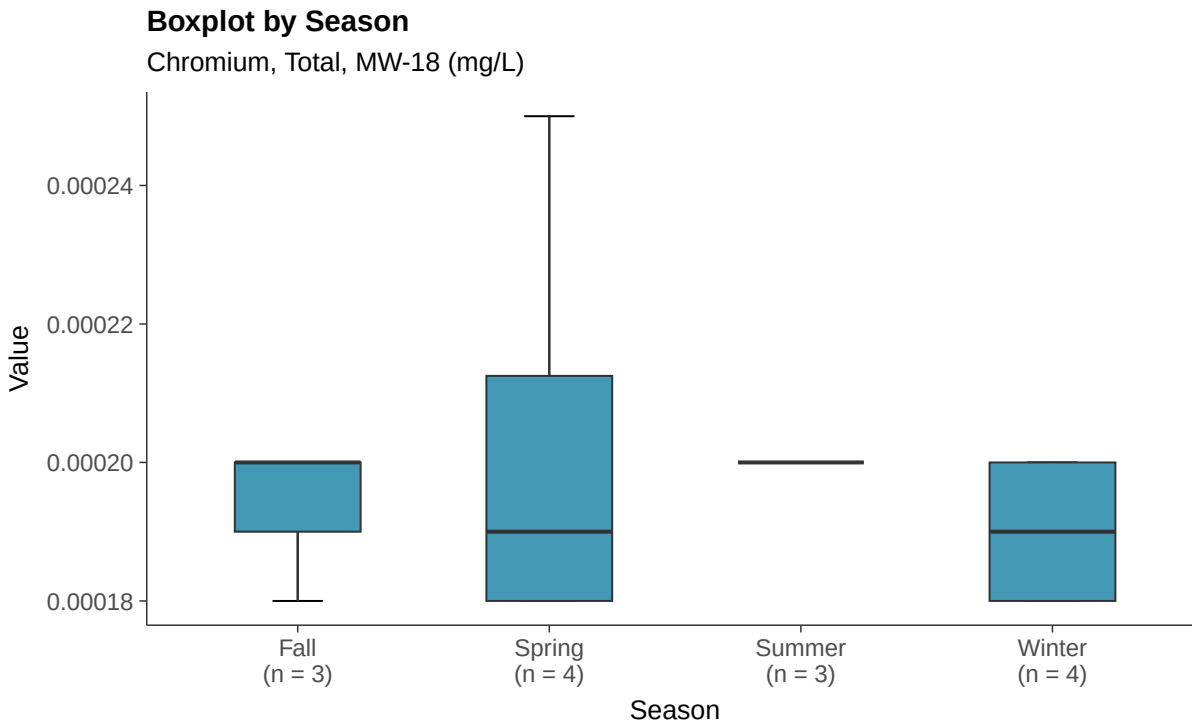
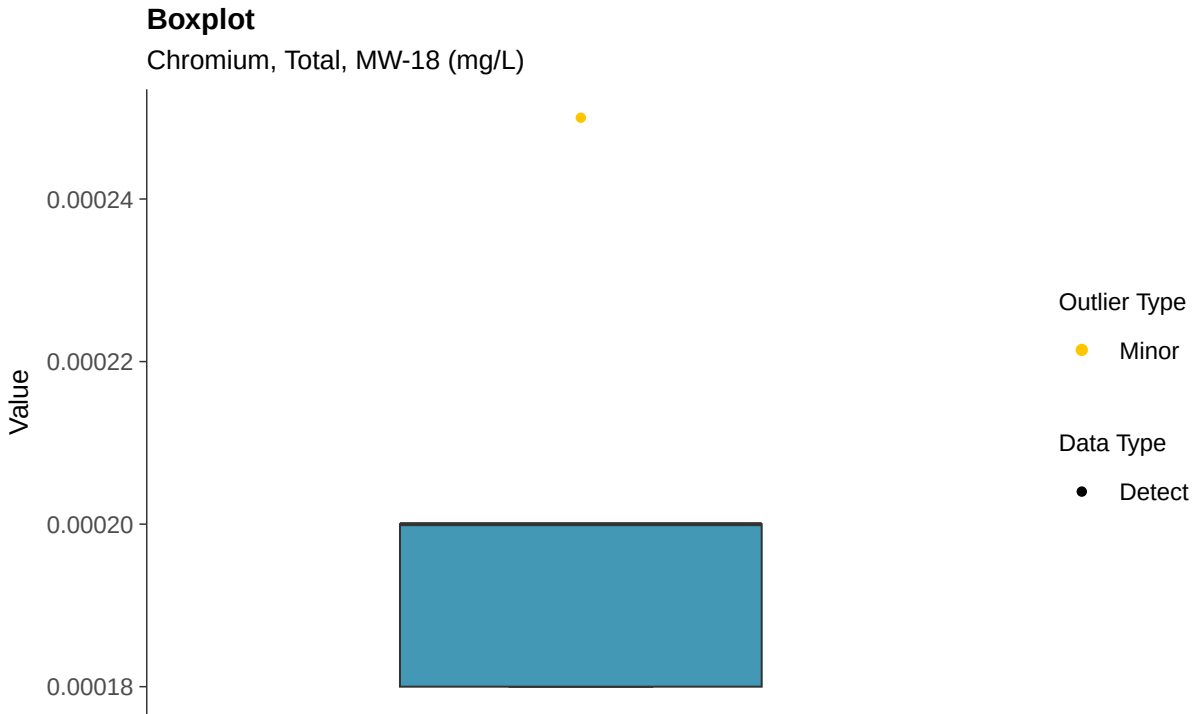




Appendix IV: Chromium, Total, MW-18

ID: 28_1_4_109

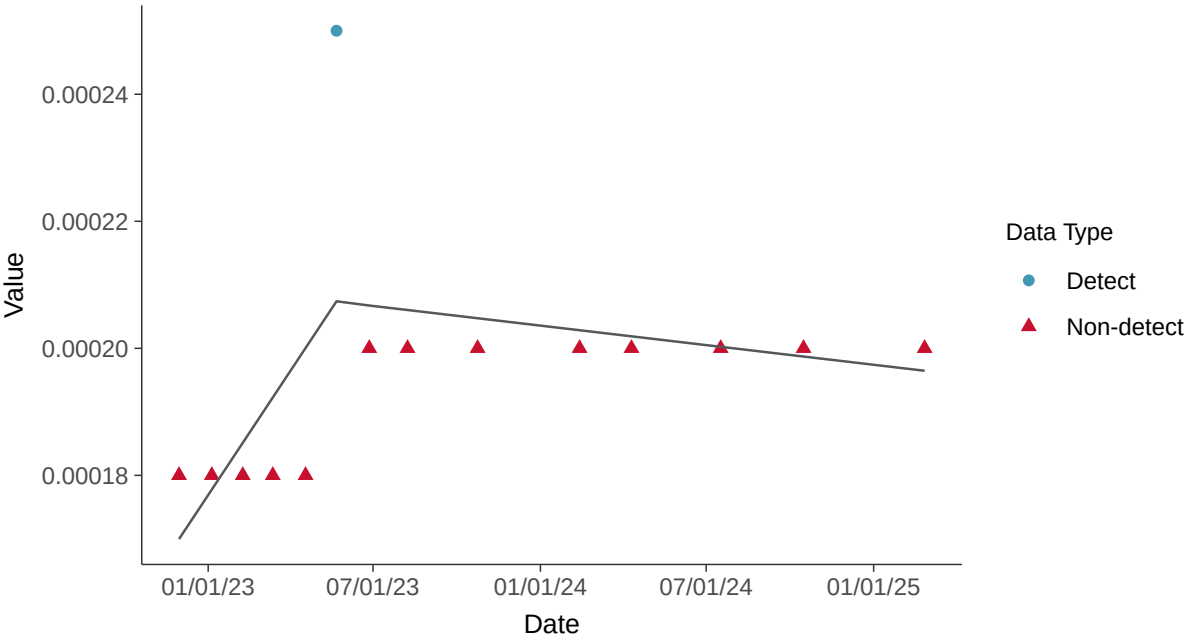






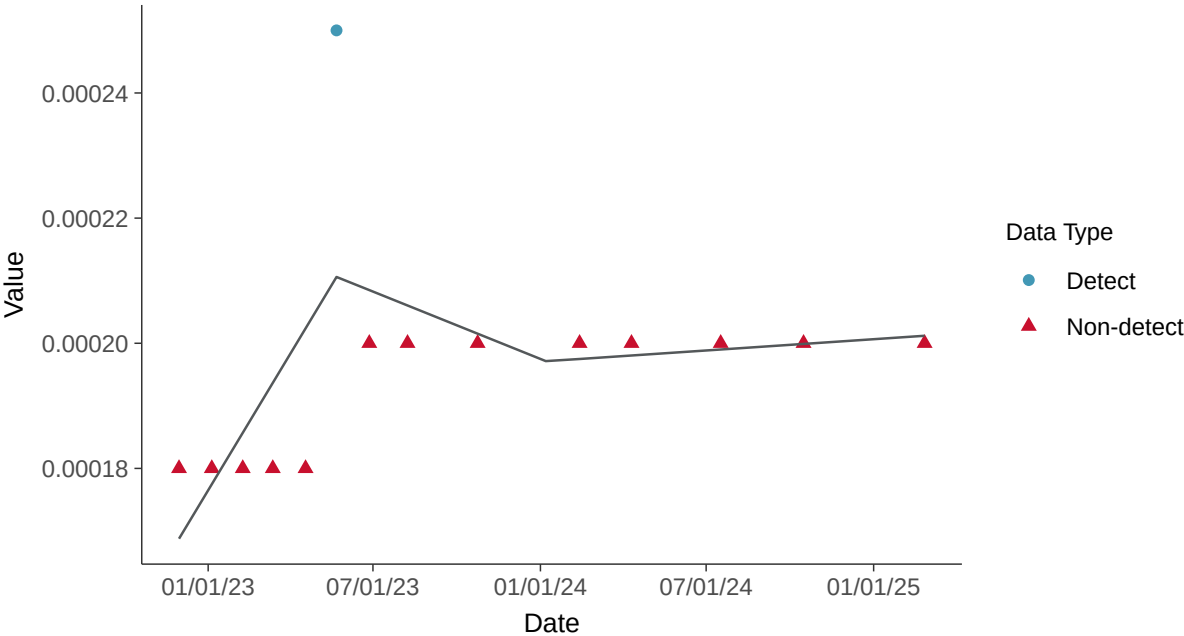
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

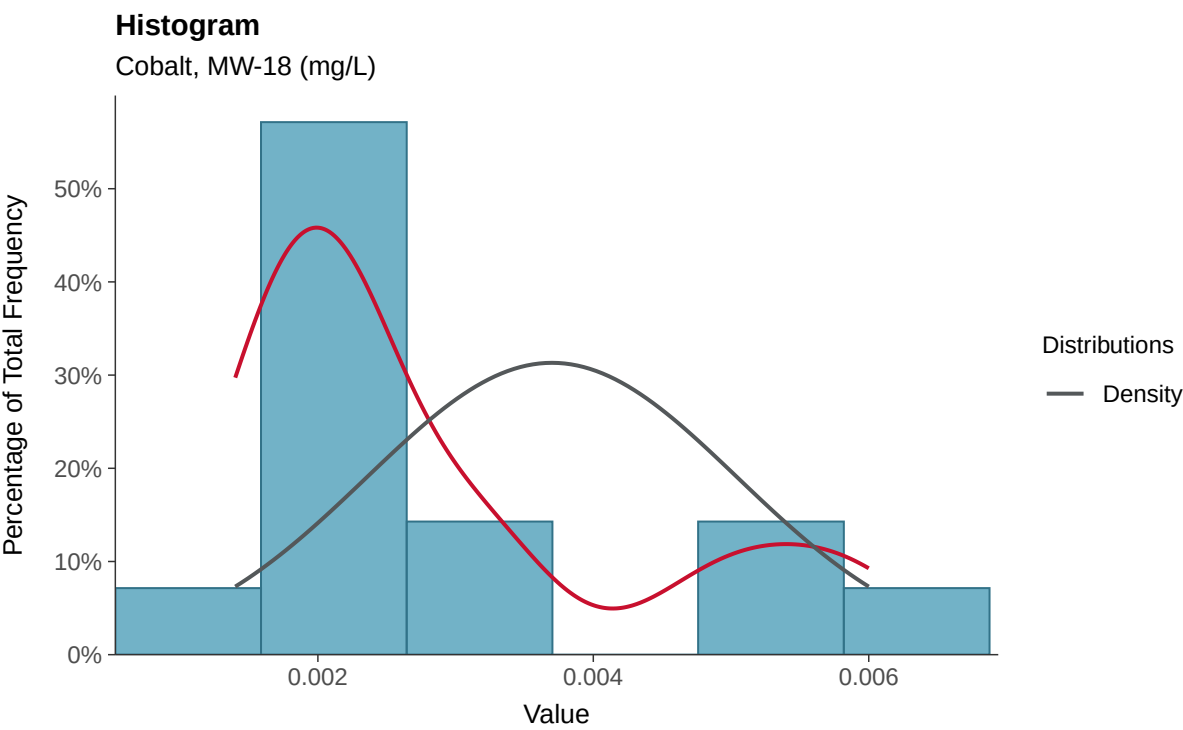
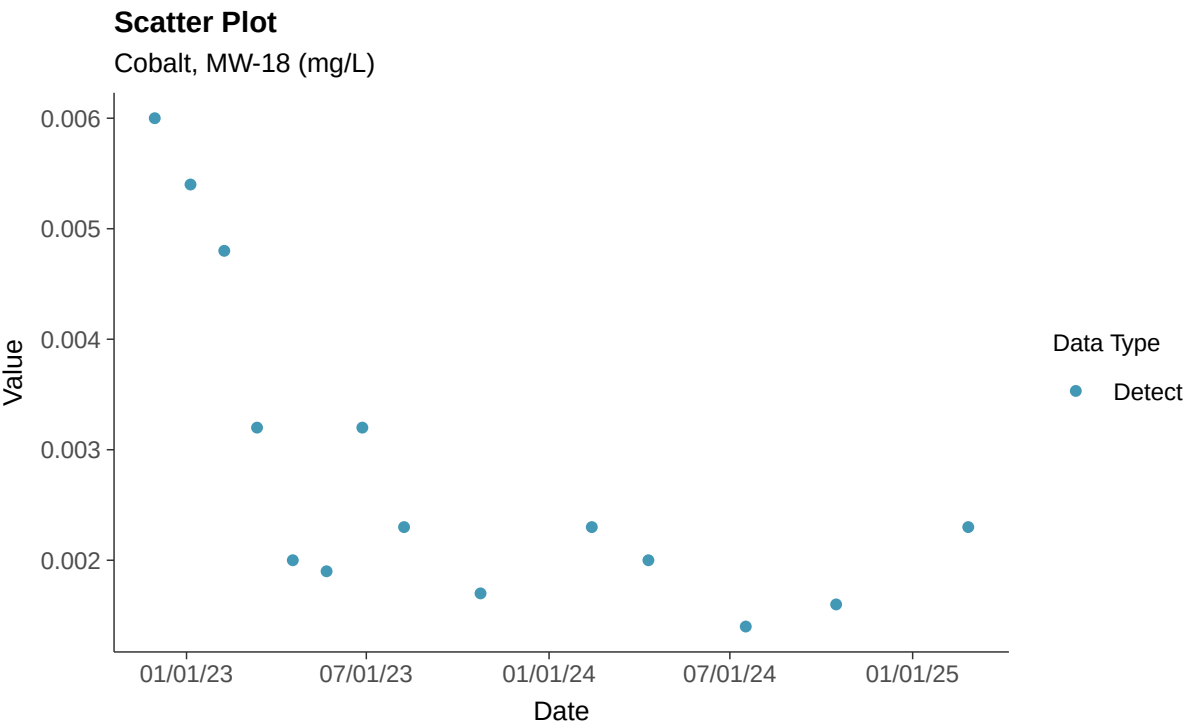
Chromium, Total, MW-18 (mg/L)

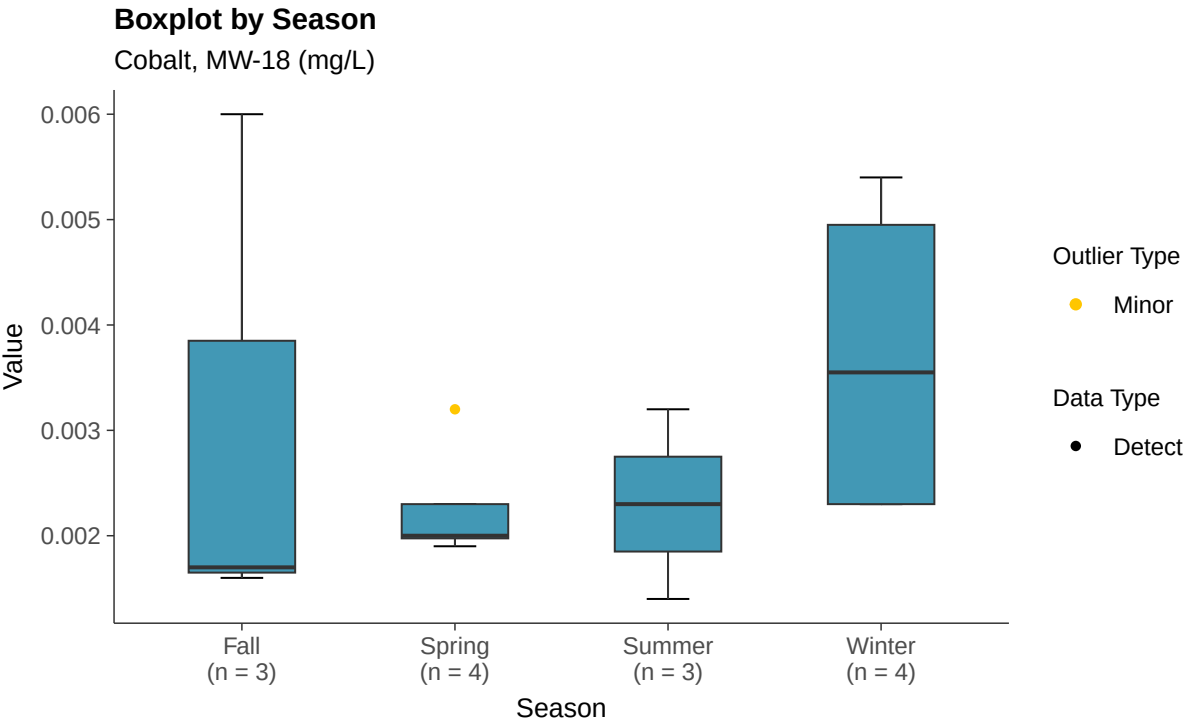
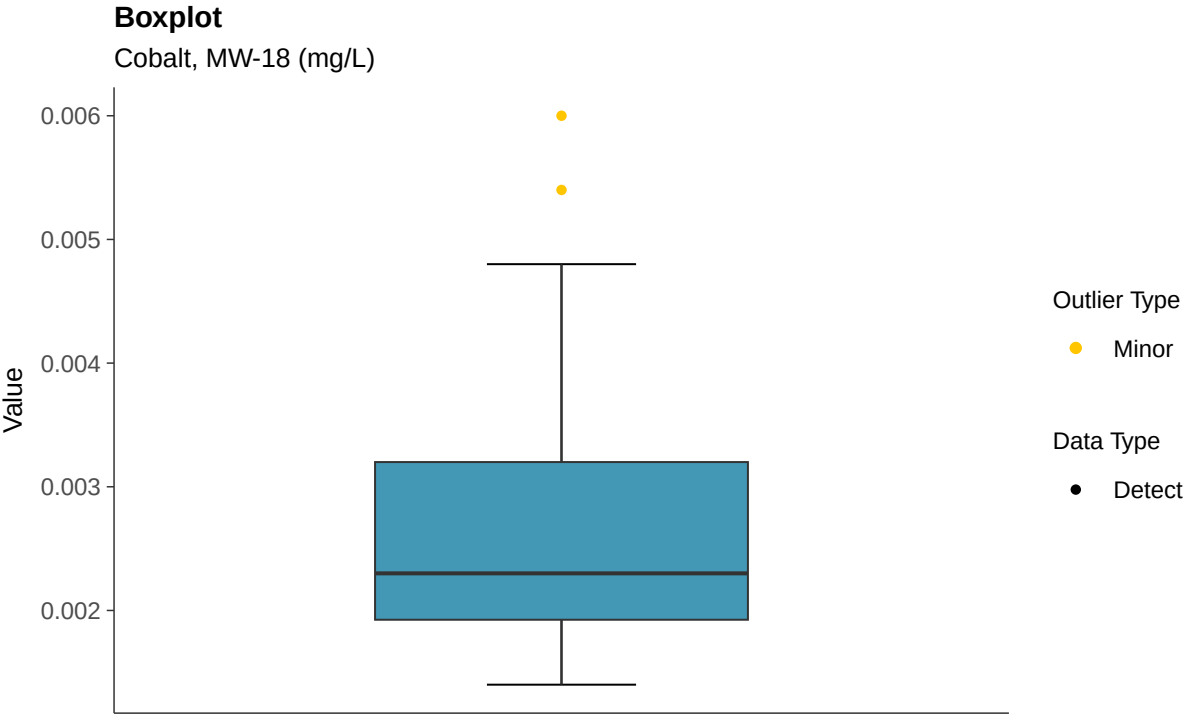


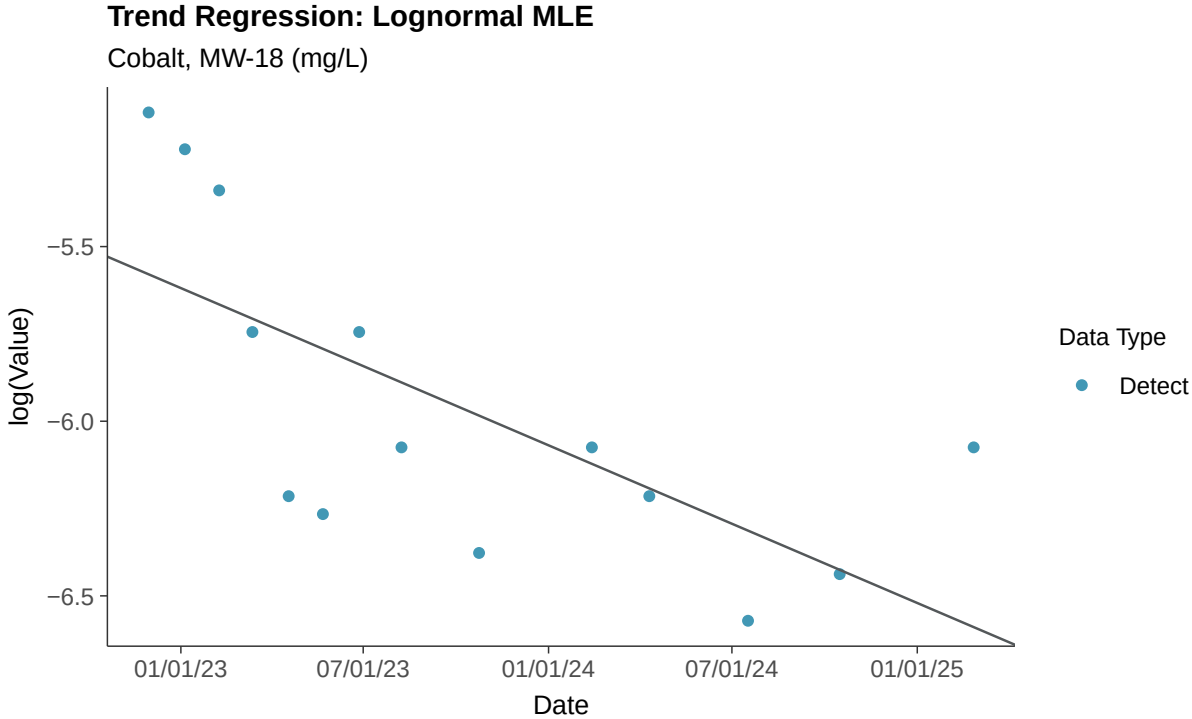
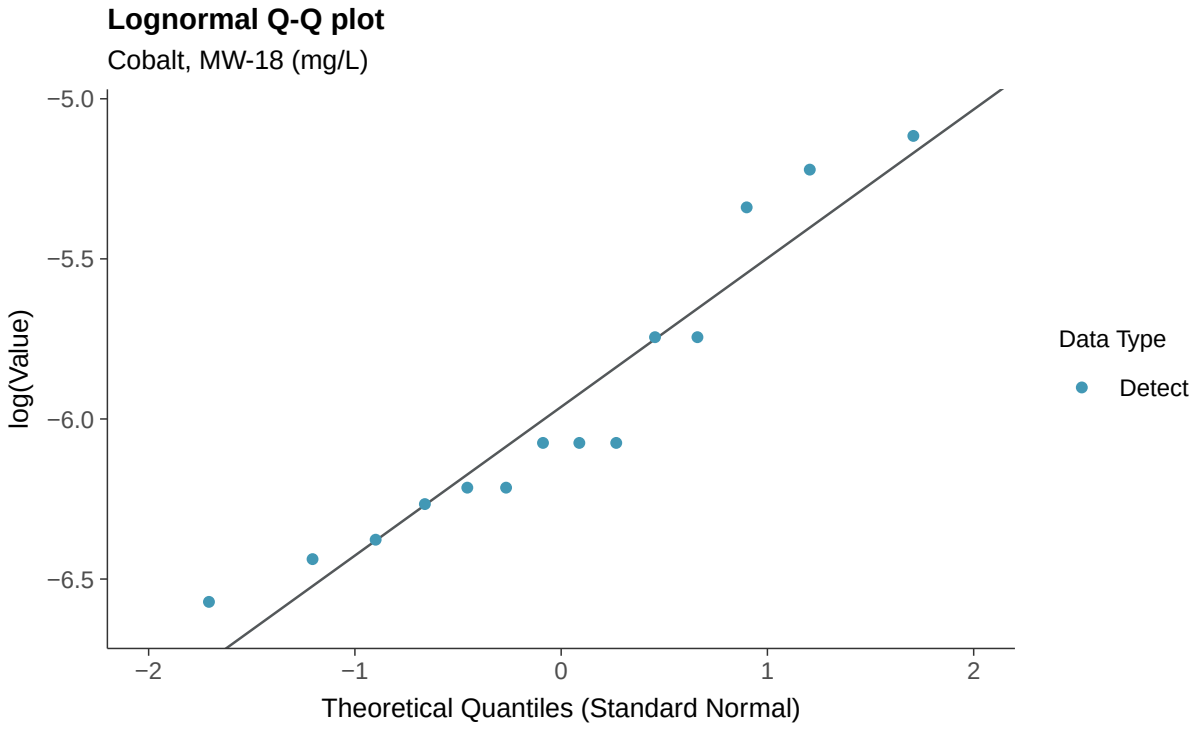


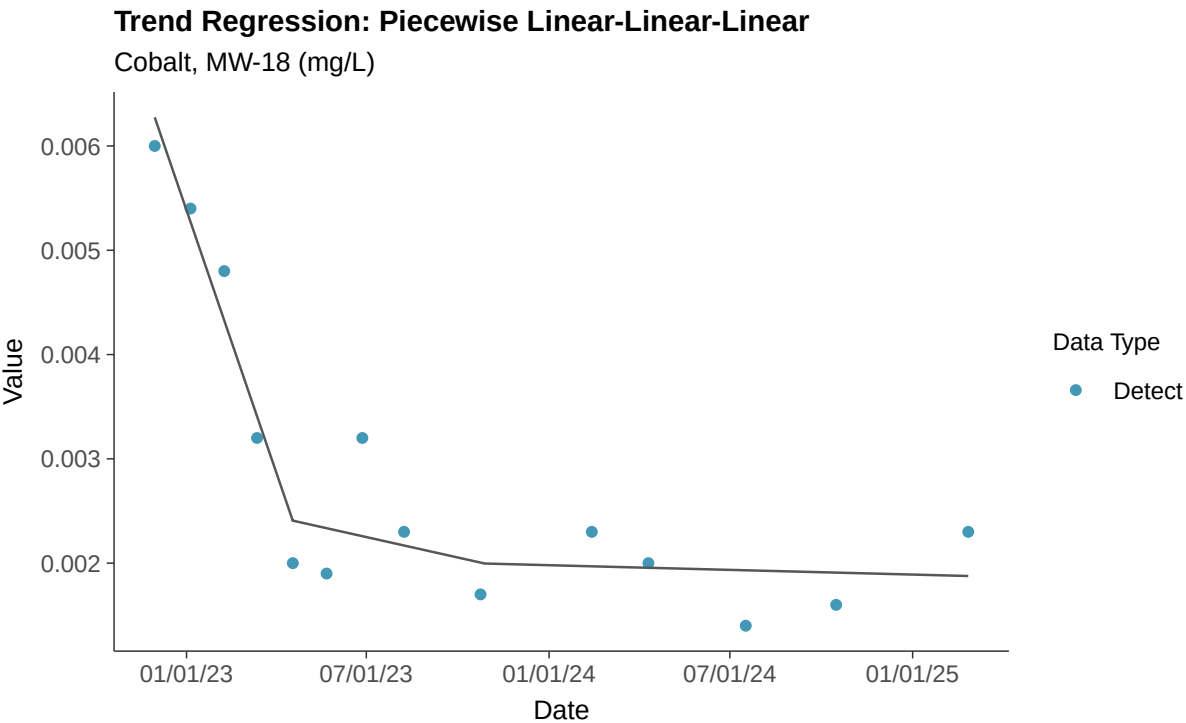
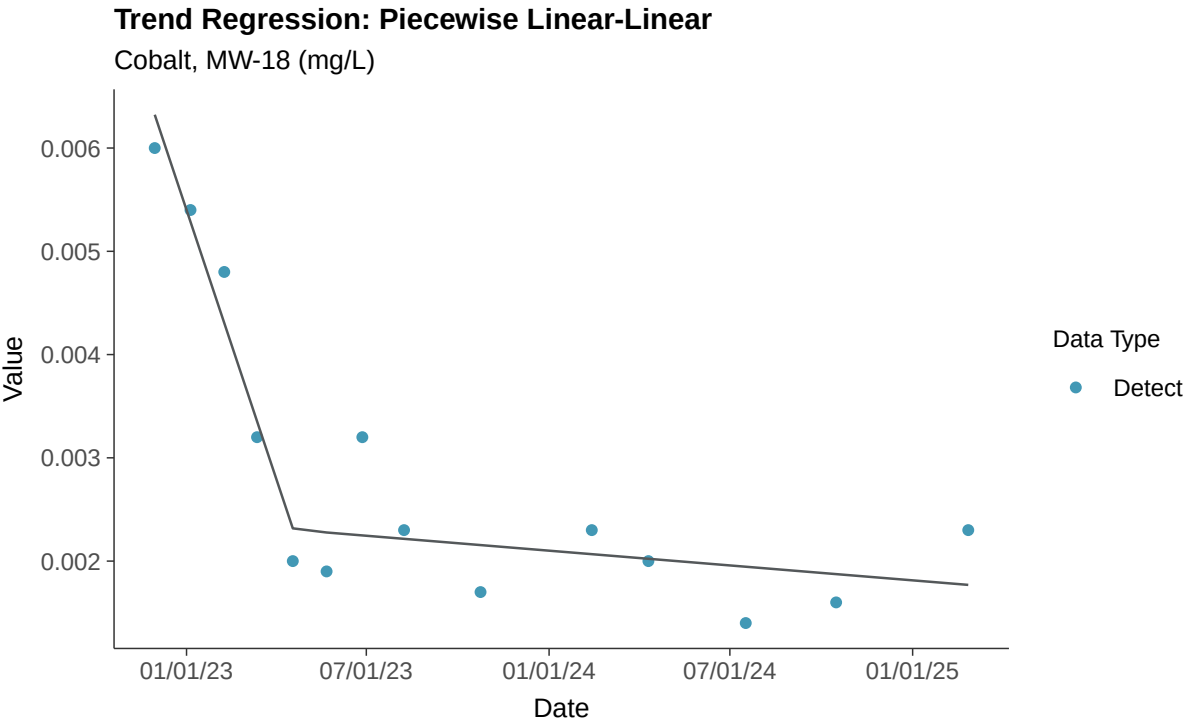
Appendix IV: Cobalt, MW-18

ID: 28_1_4_110





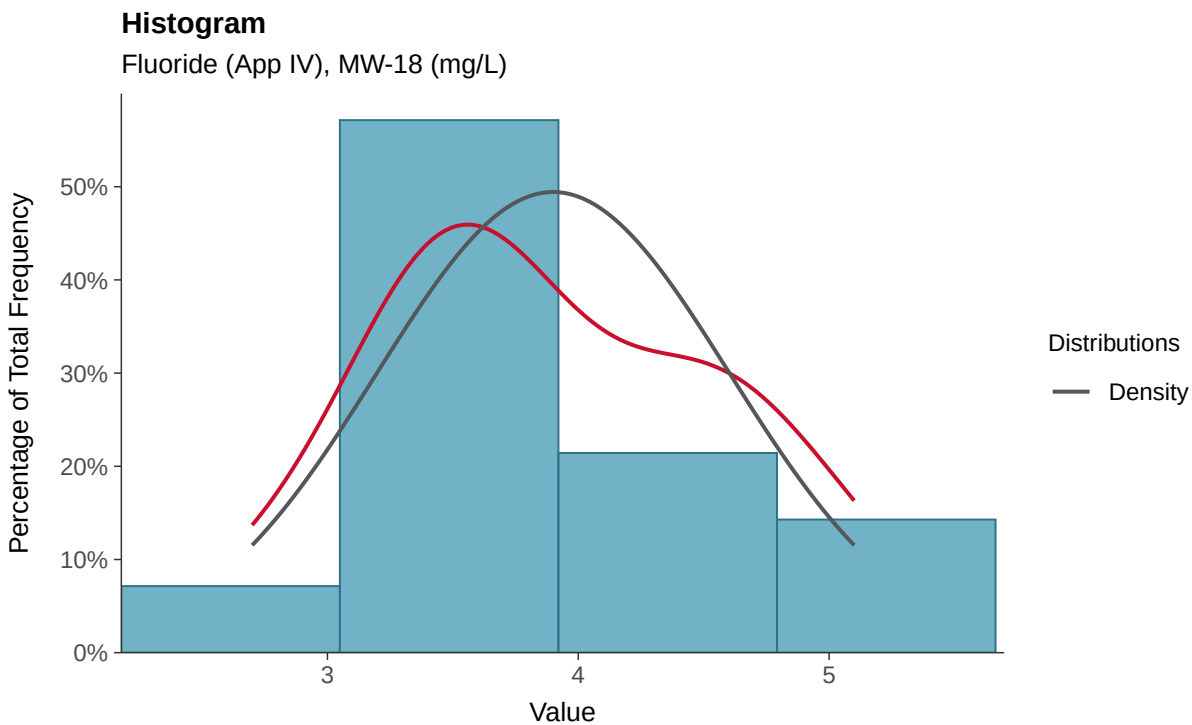
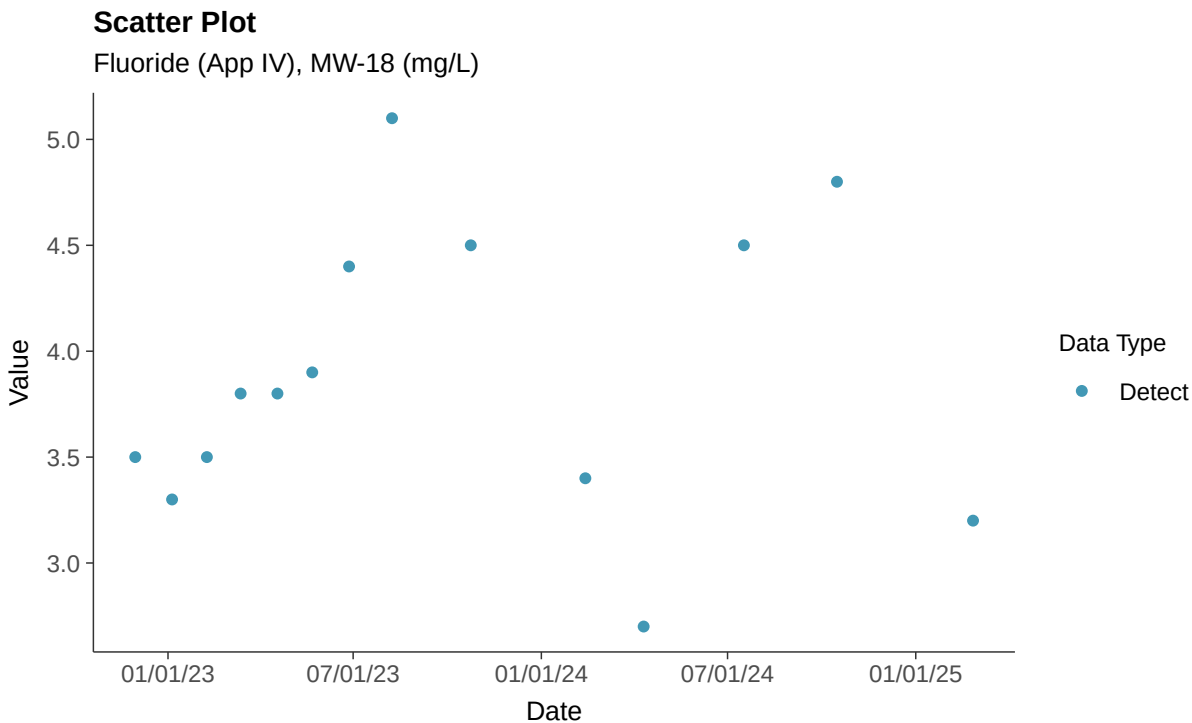


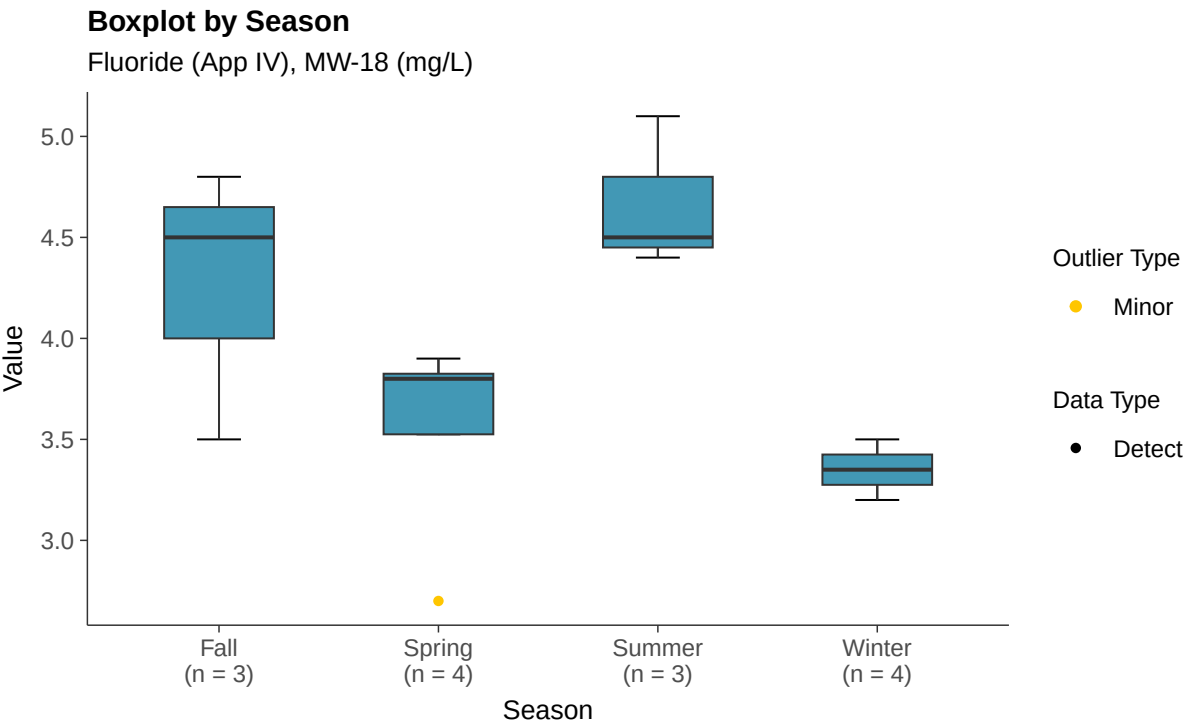
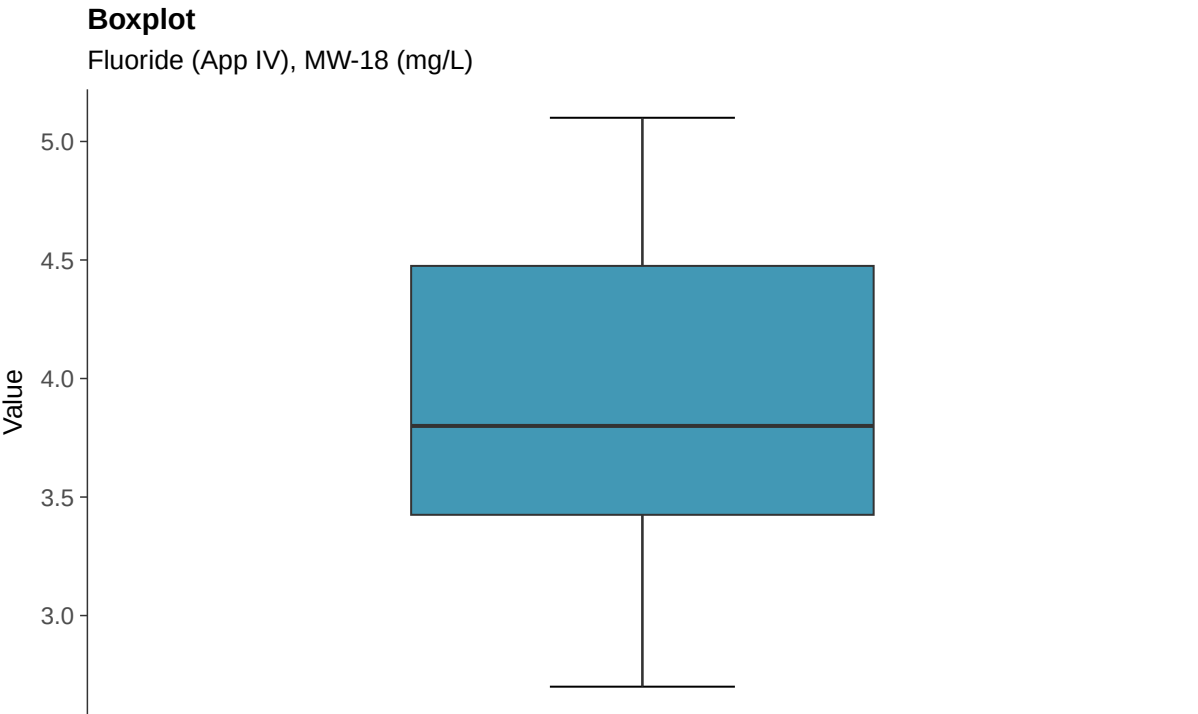


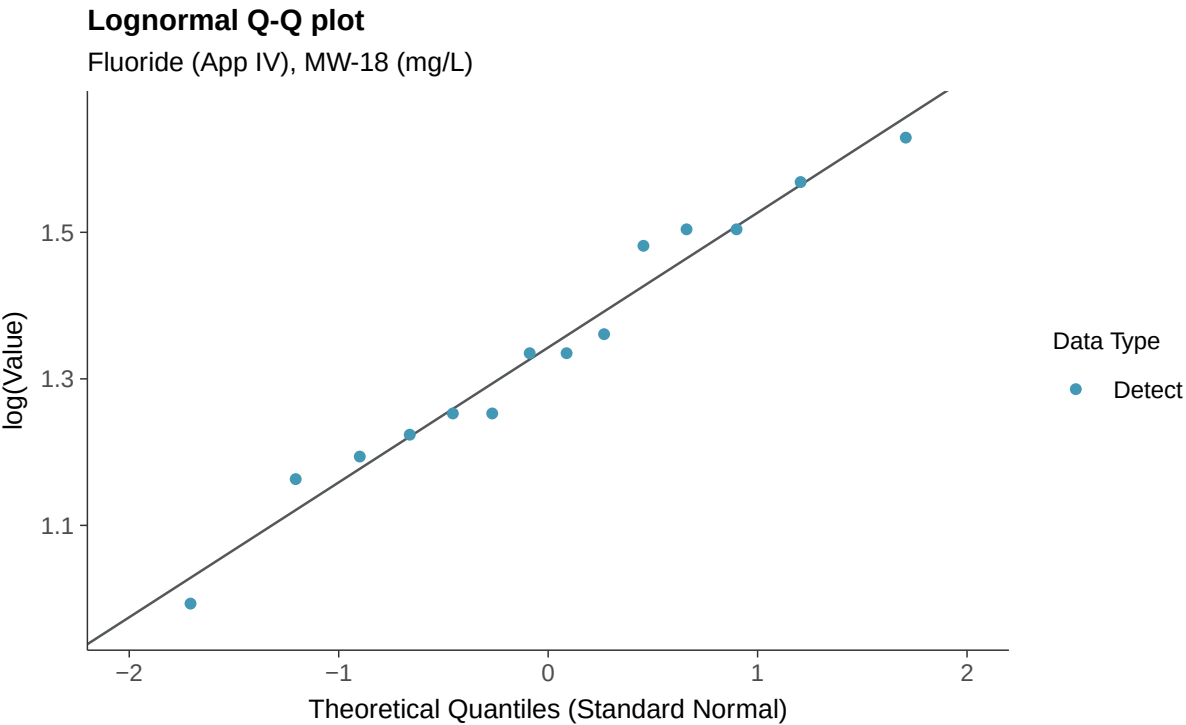
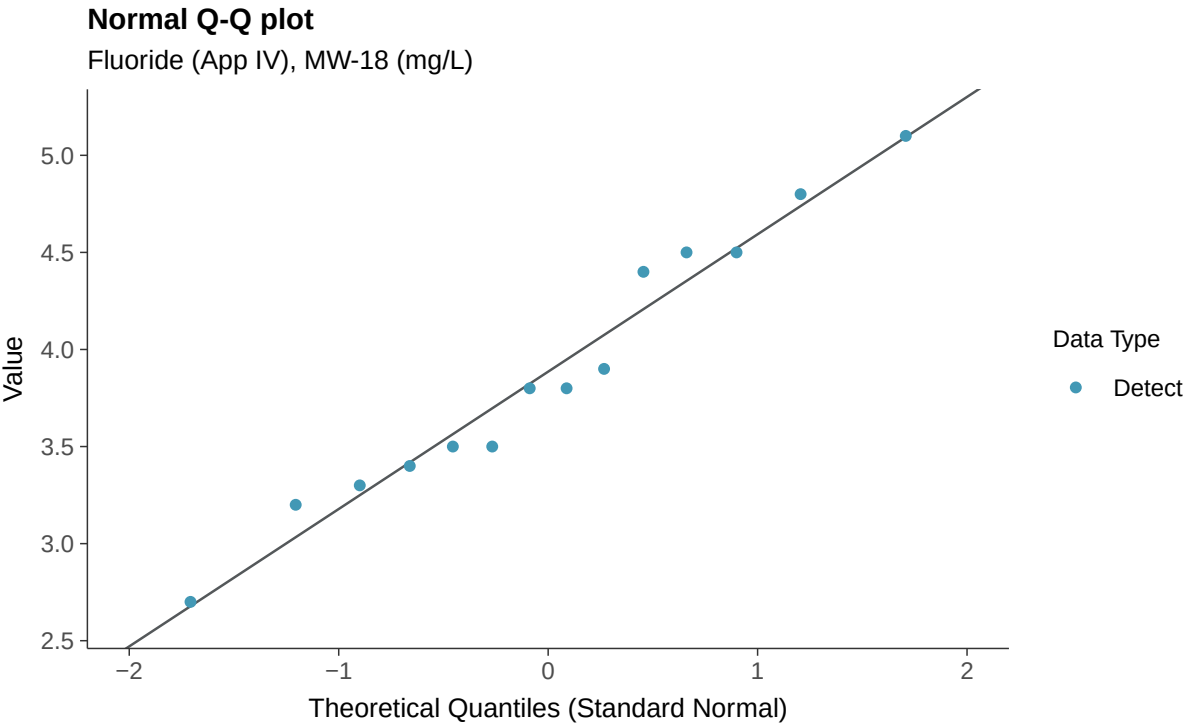


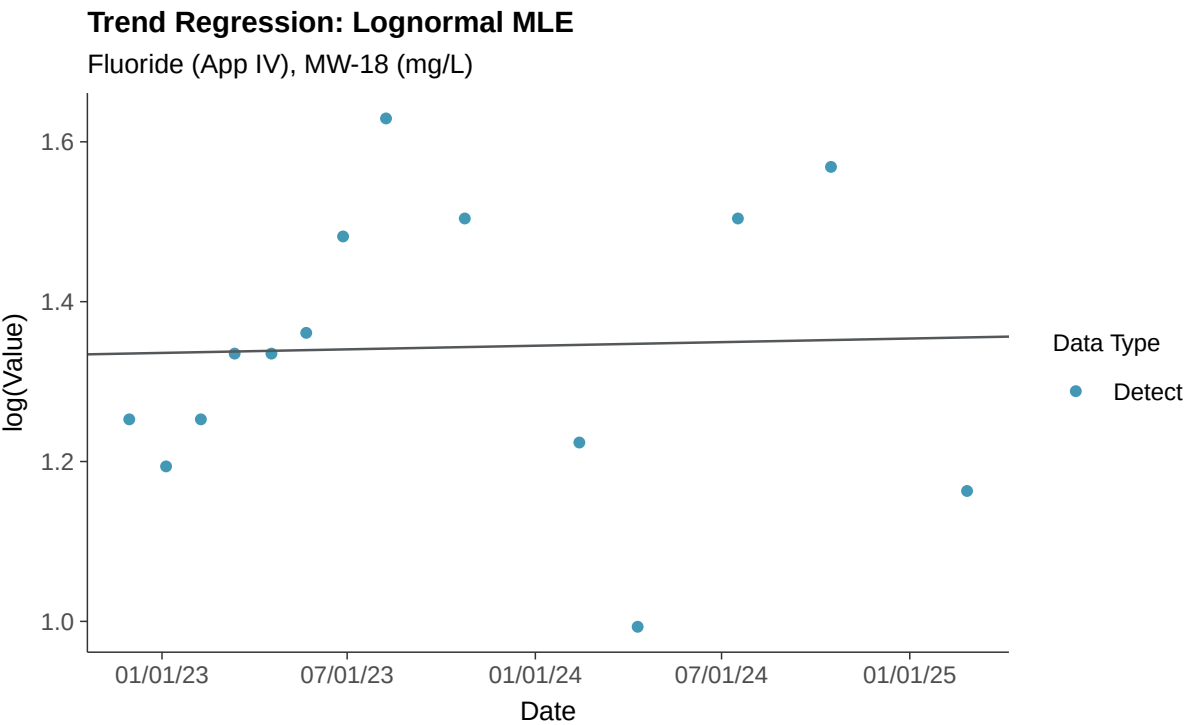
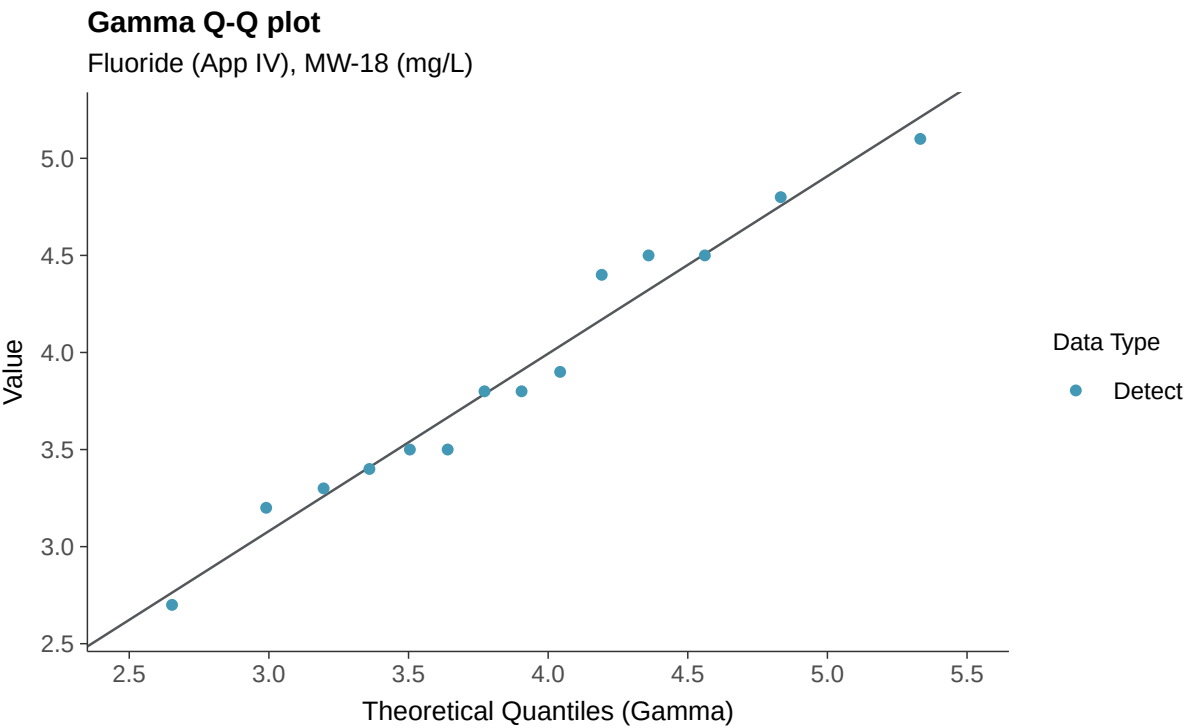
Appendix IV: Fluoride (App IV), MW-18

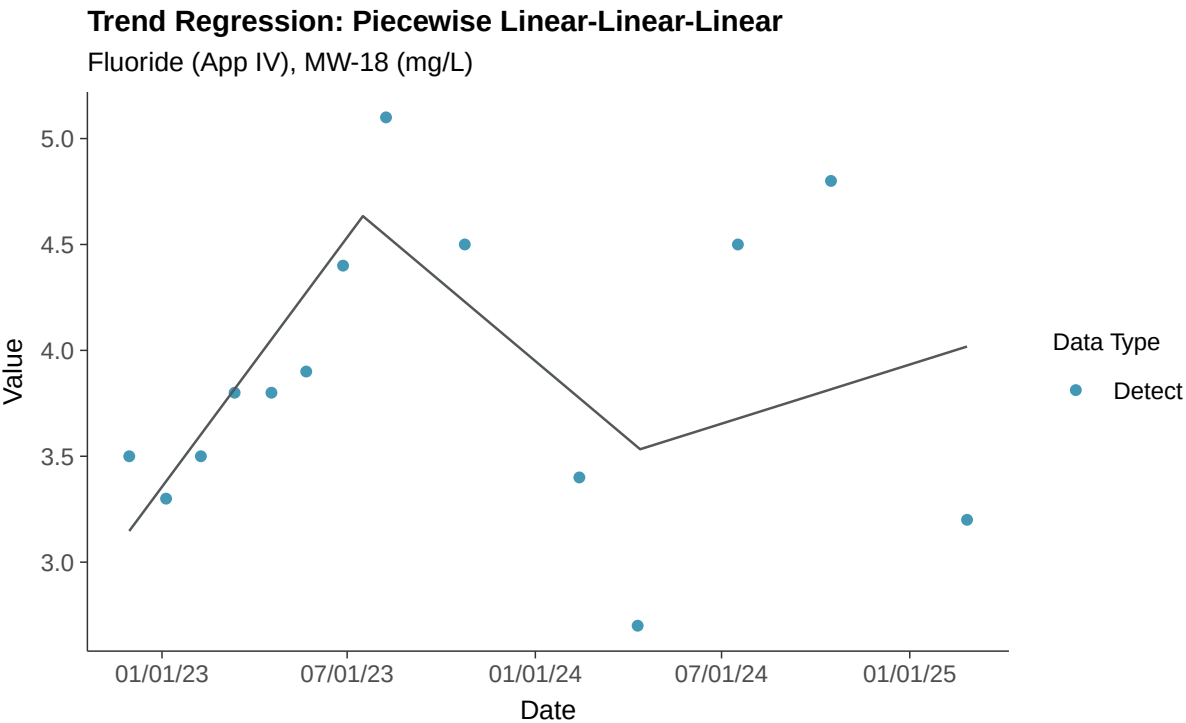
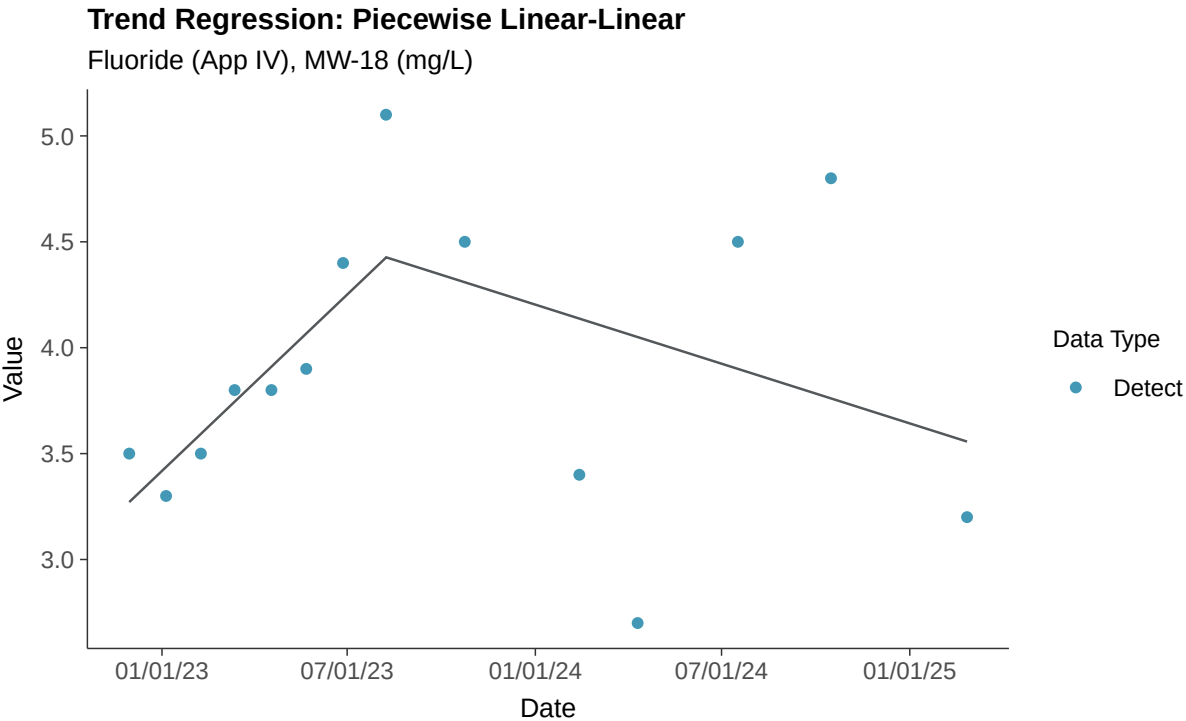
ID: 28_1_4_113







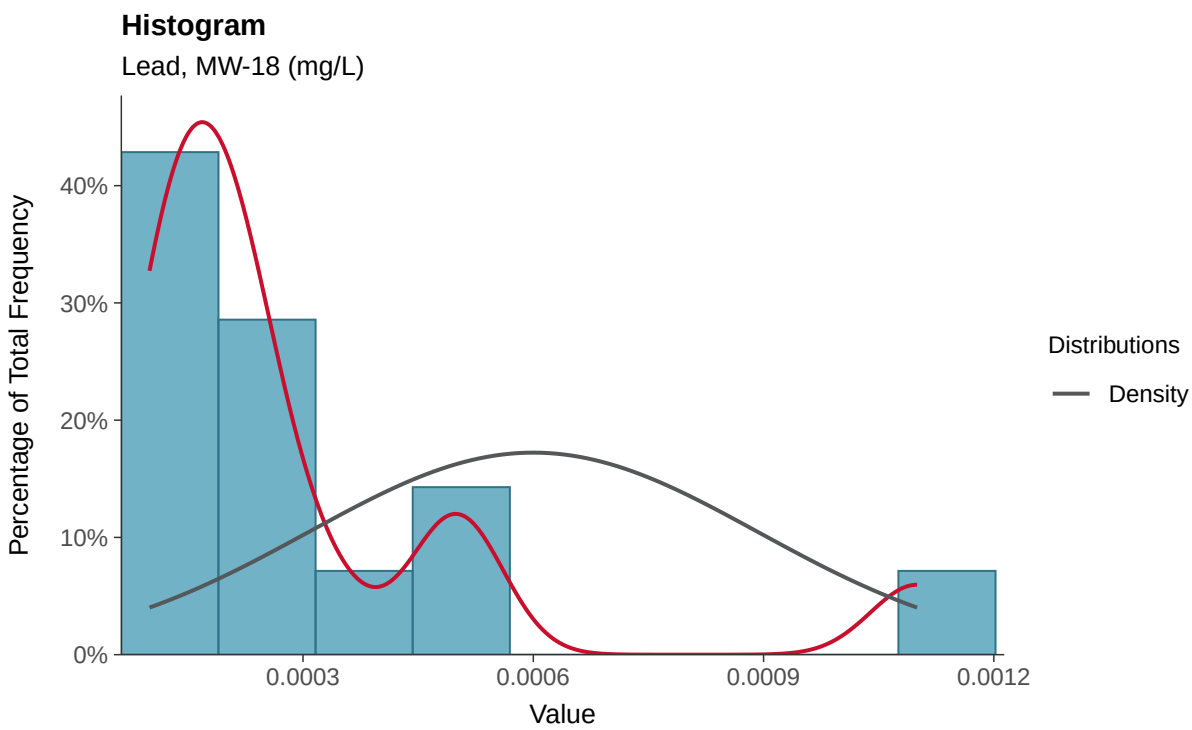
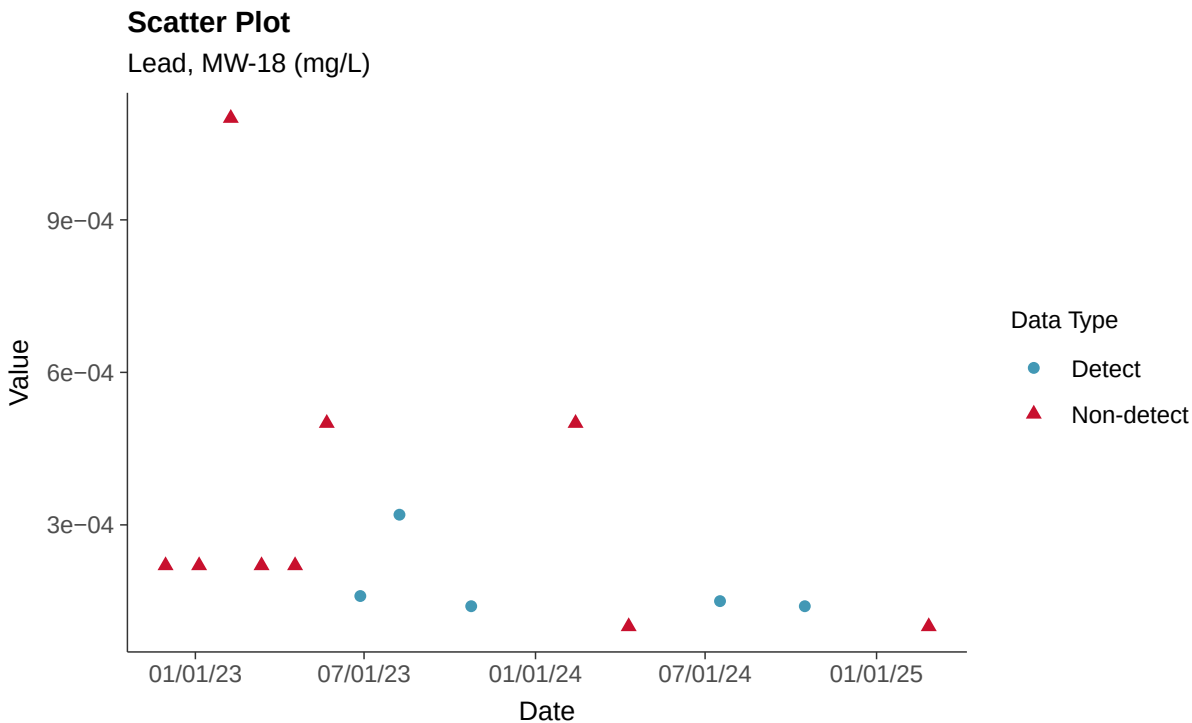


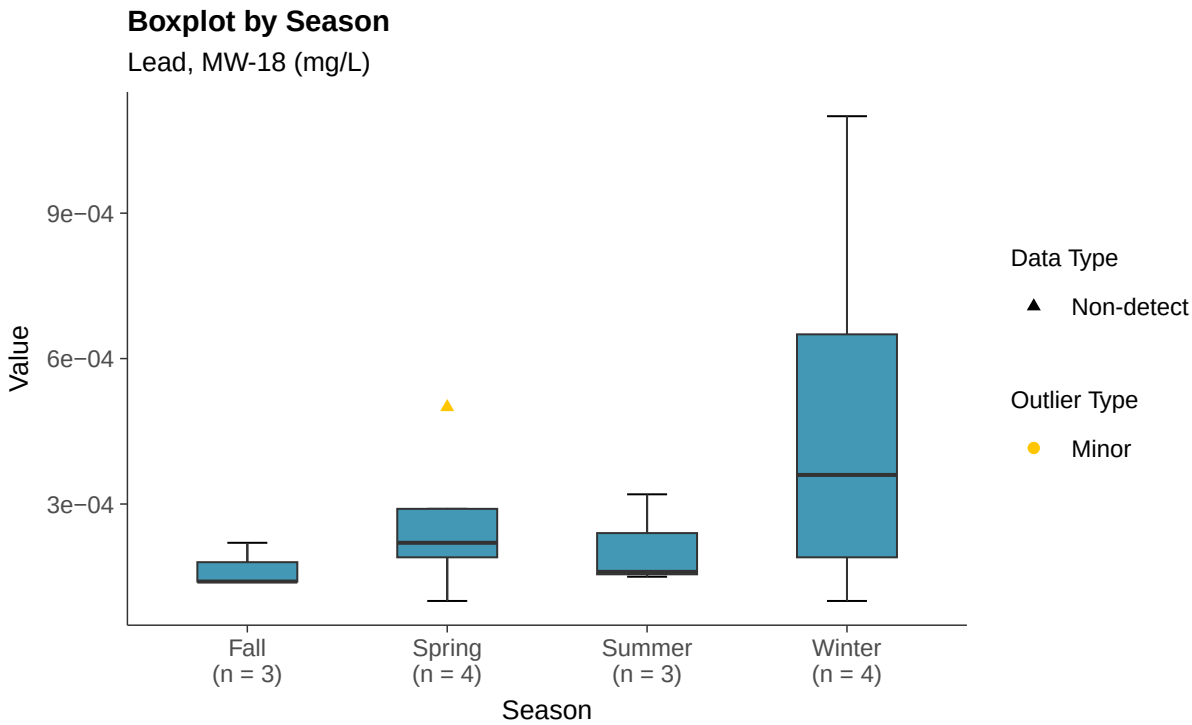
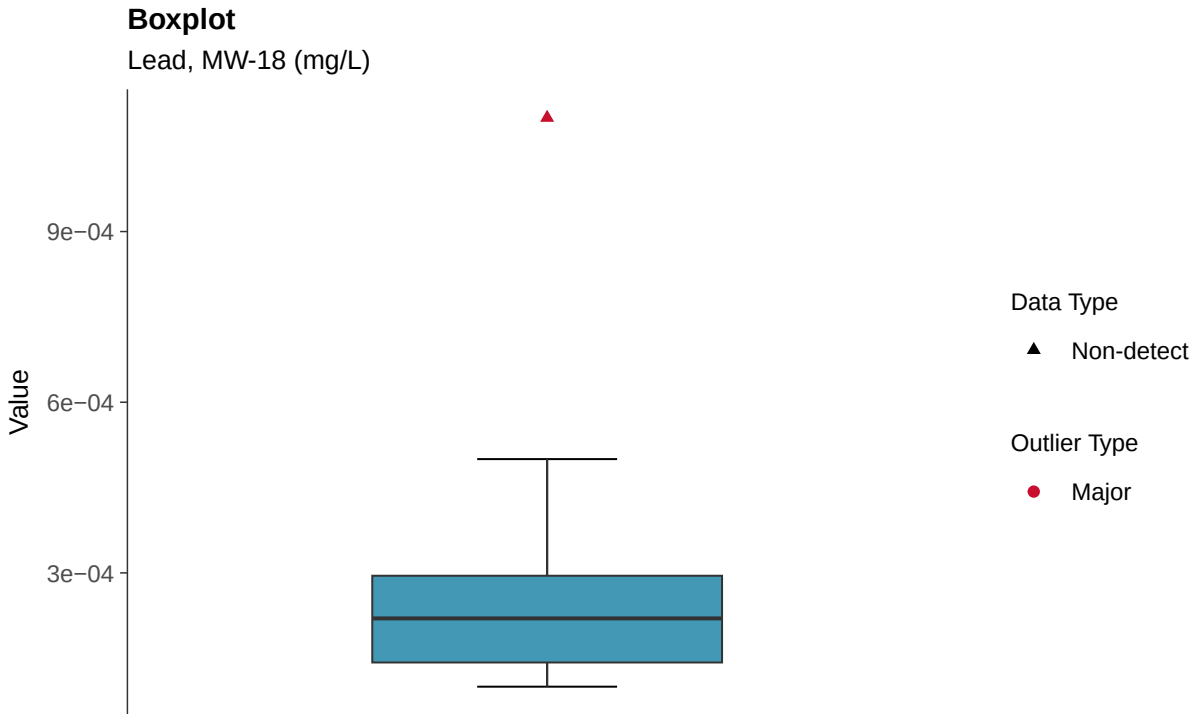




Appendix IV: Lead, MW-18

ID: 28_1_4_115

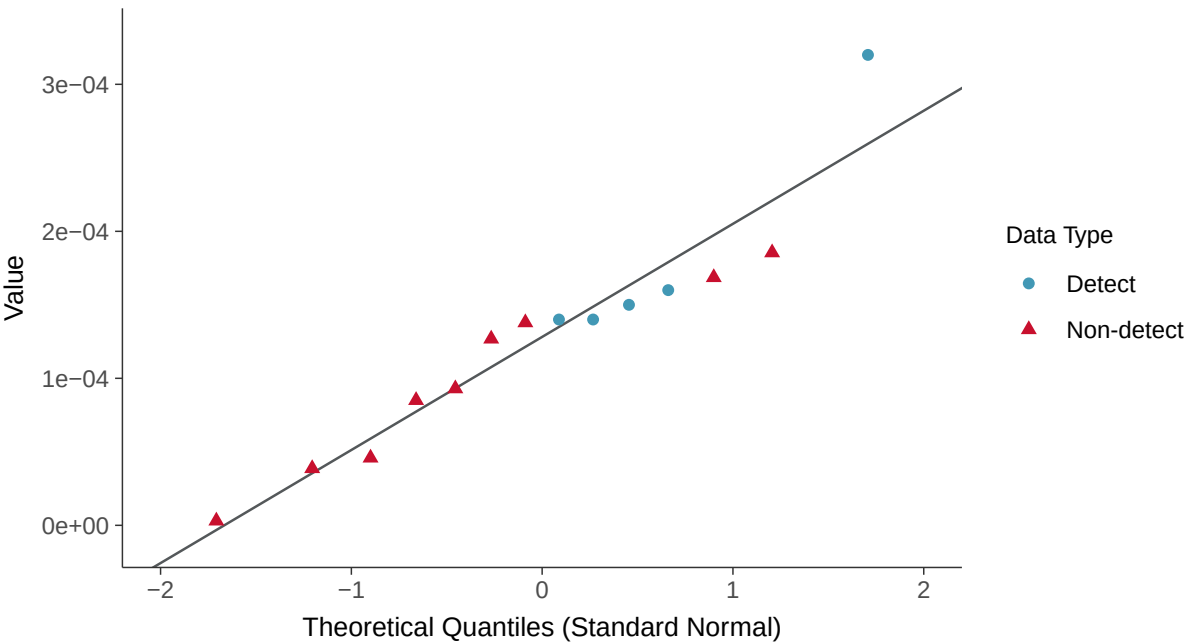






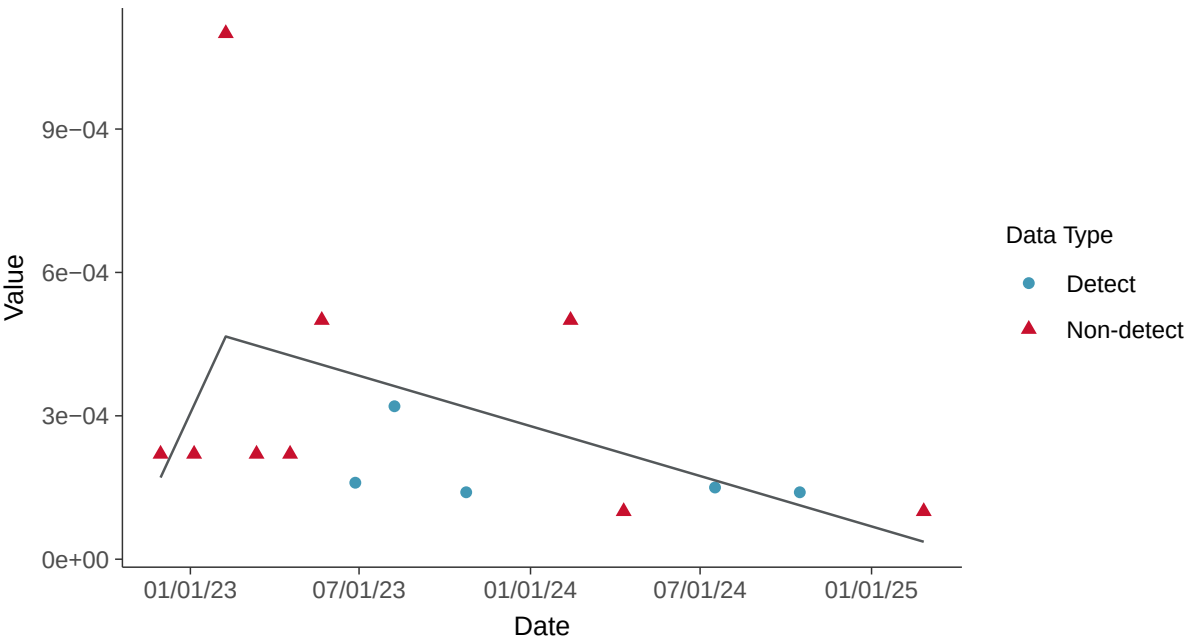
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

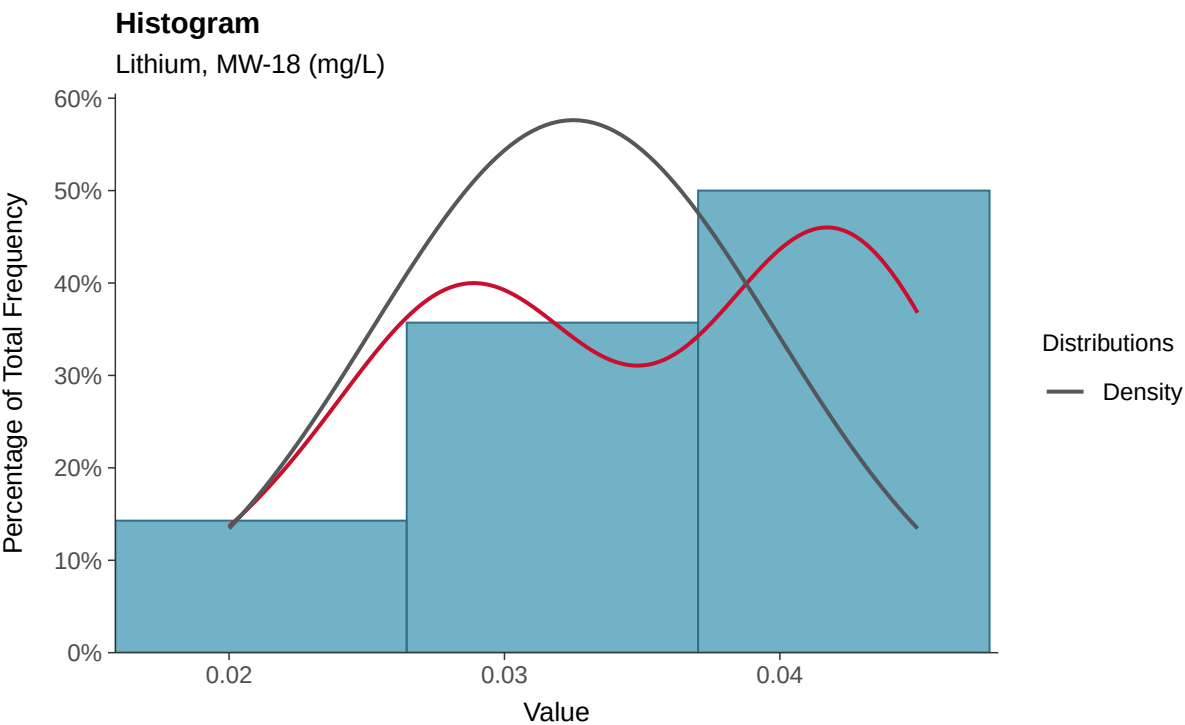
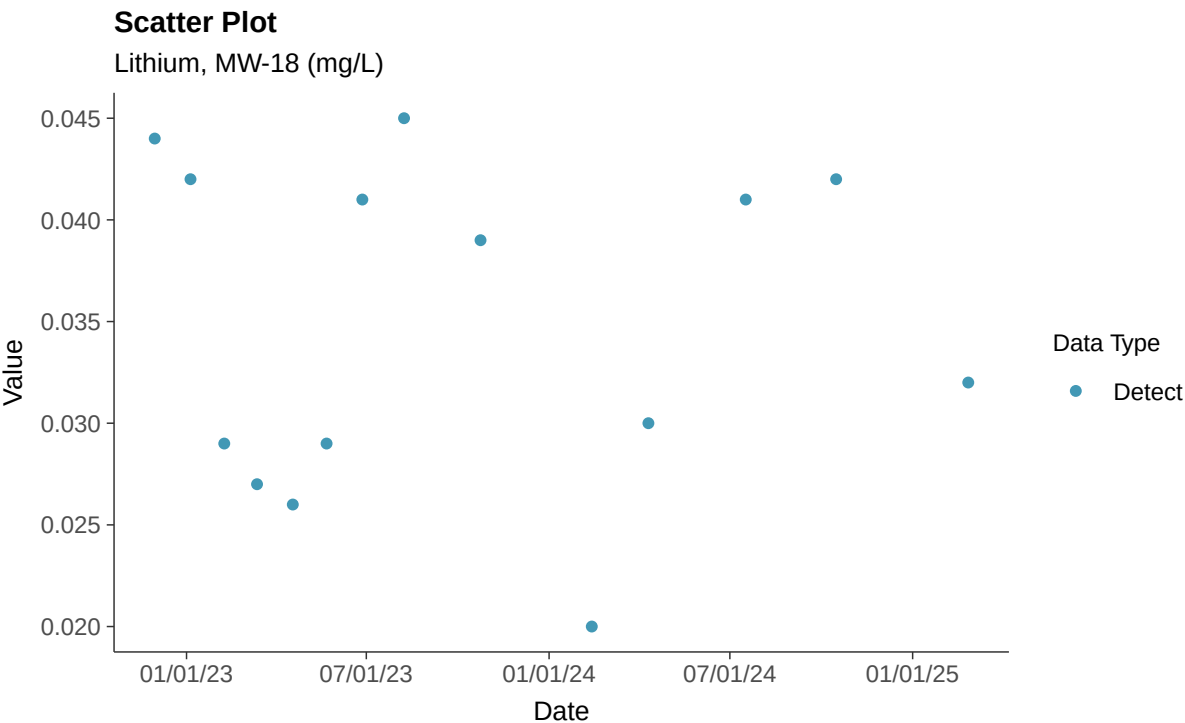
Lead, MW-18 (mg/L)

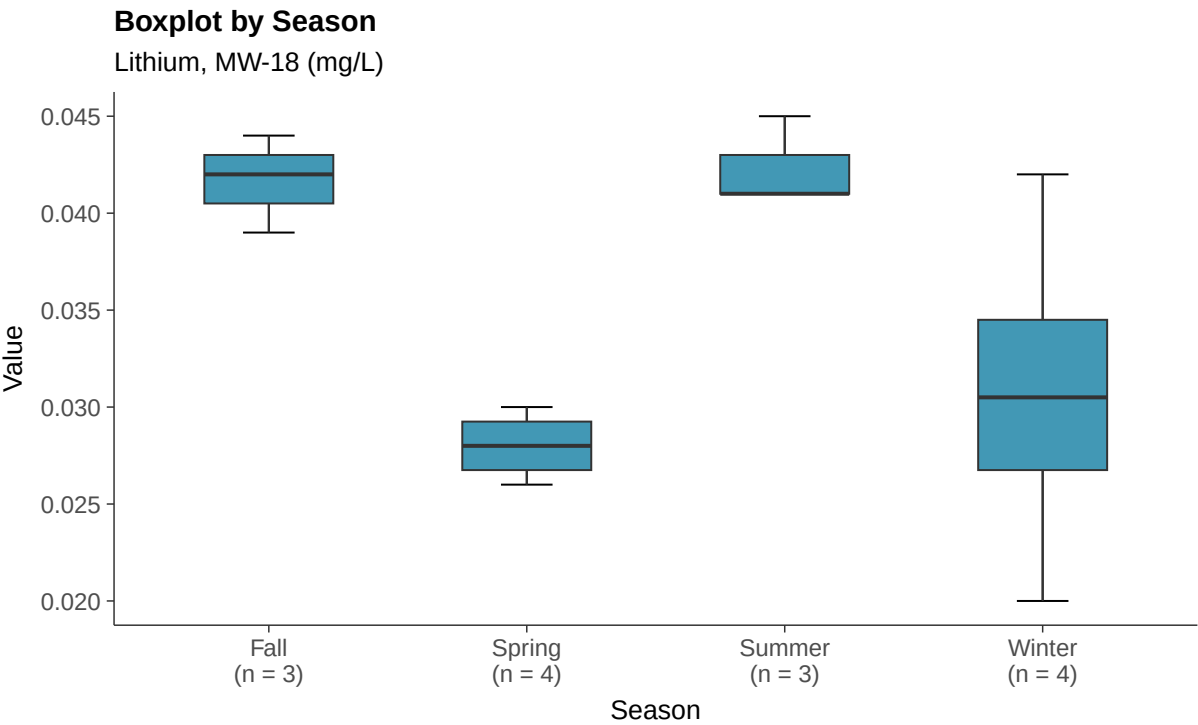
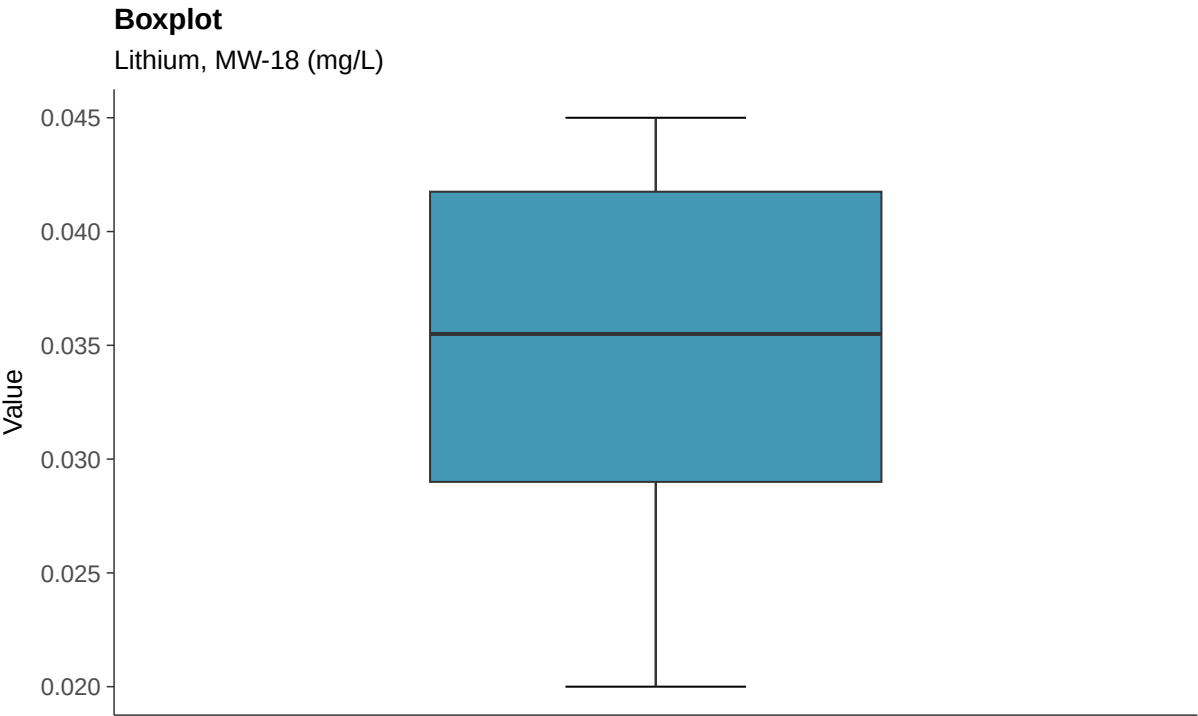


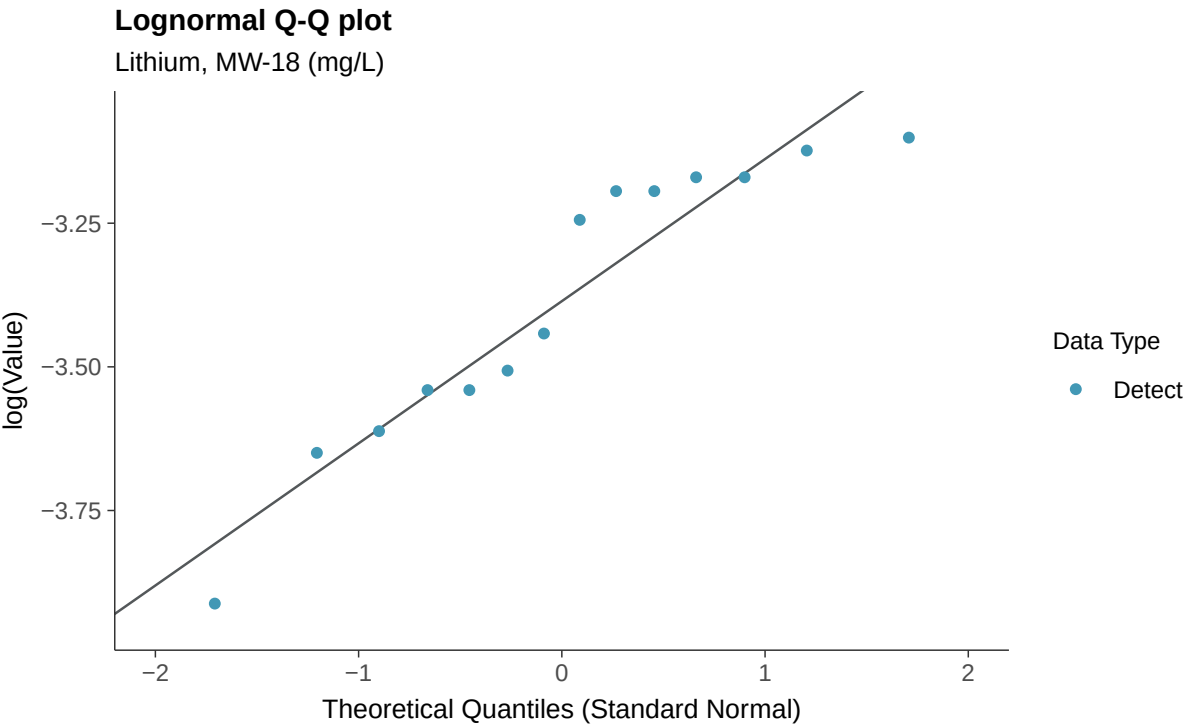
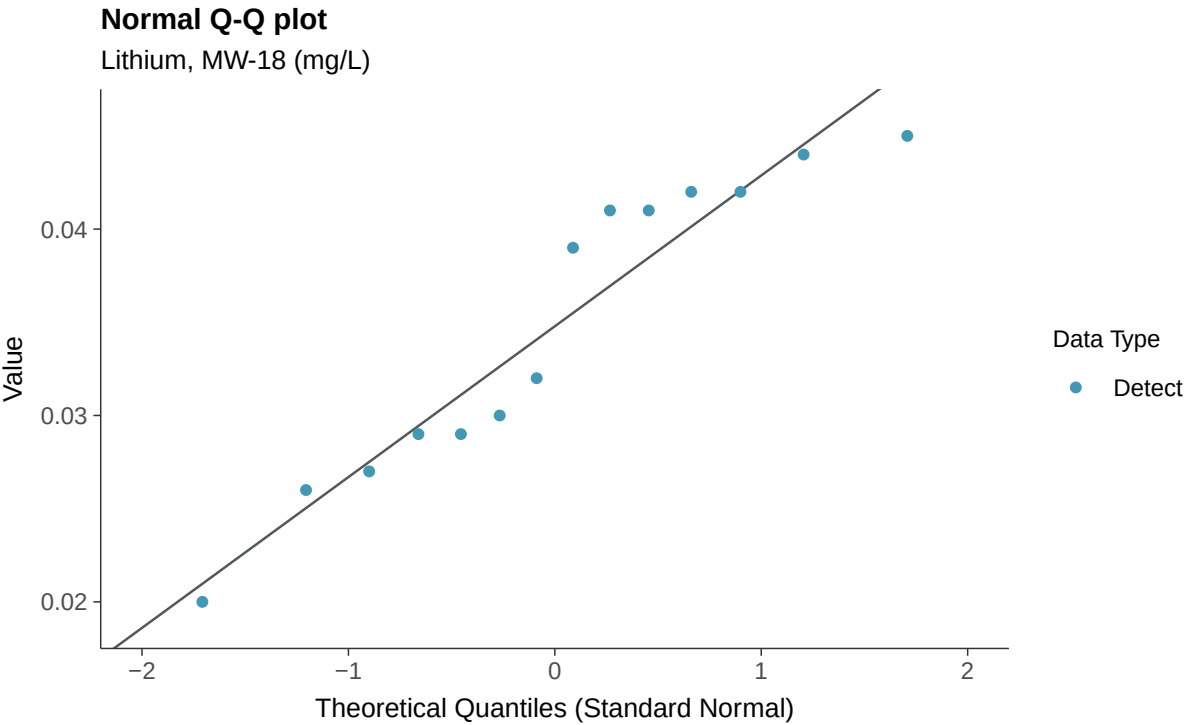


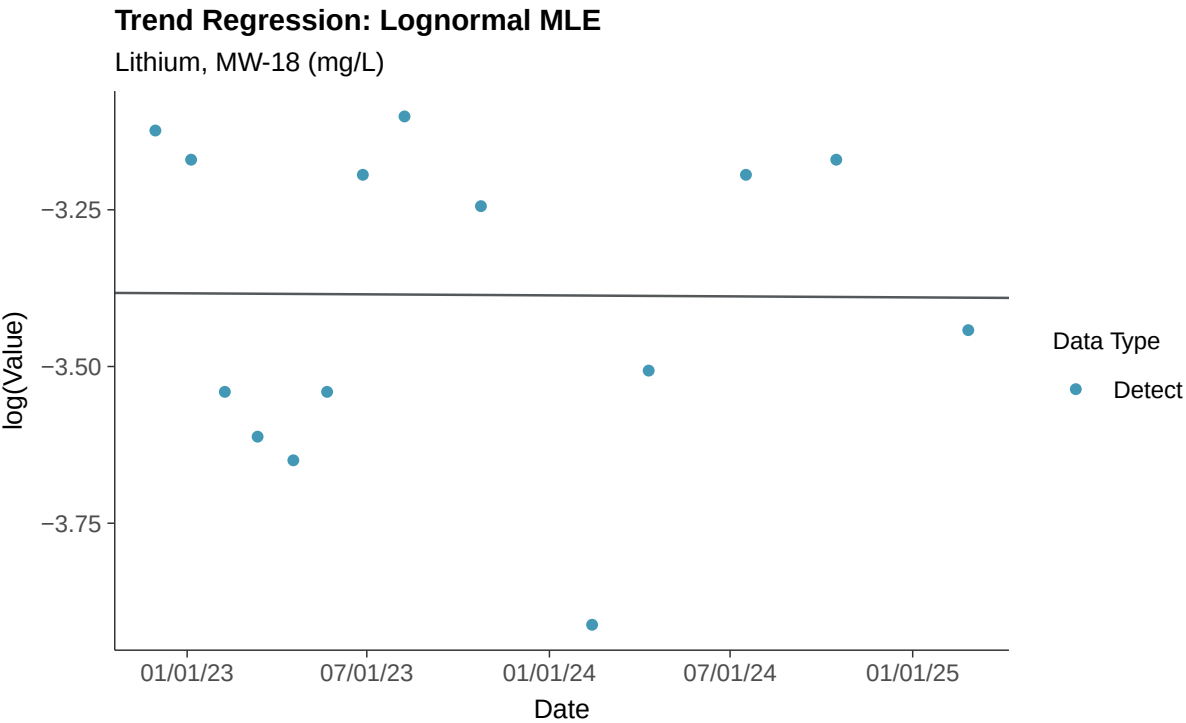
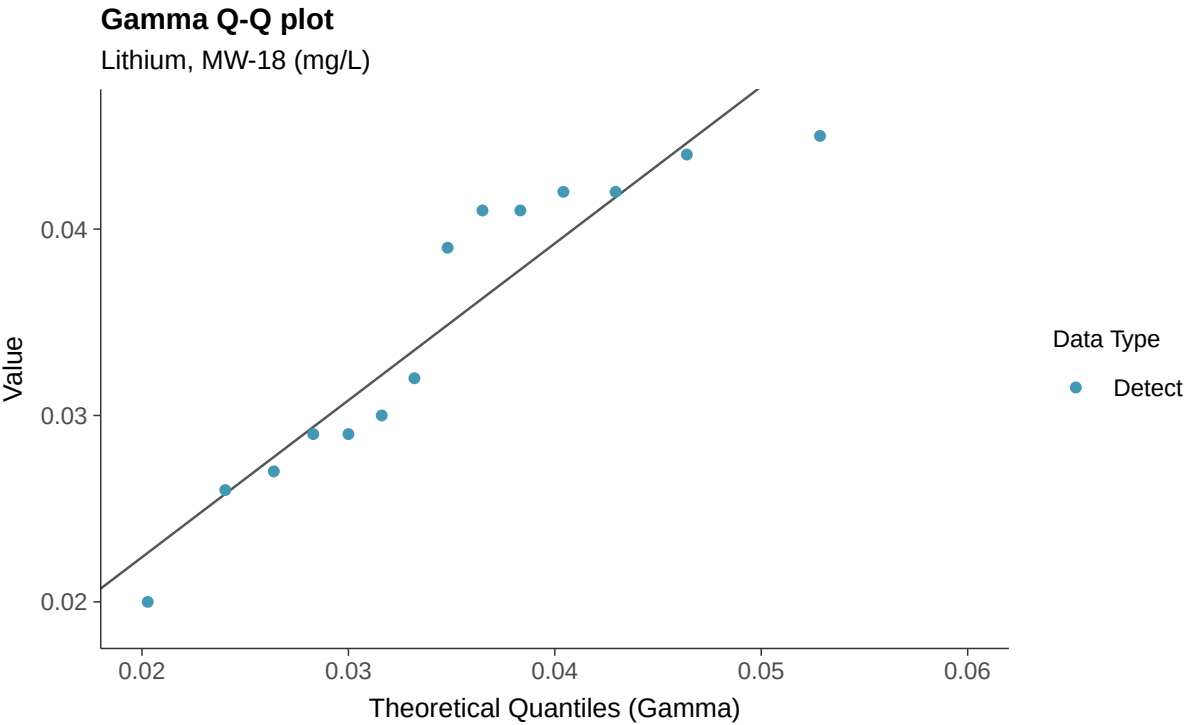
Appendix IV: Lithium, MW-18

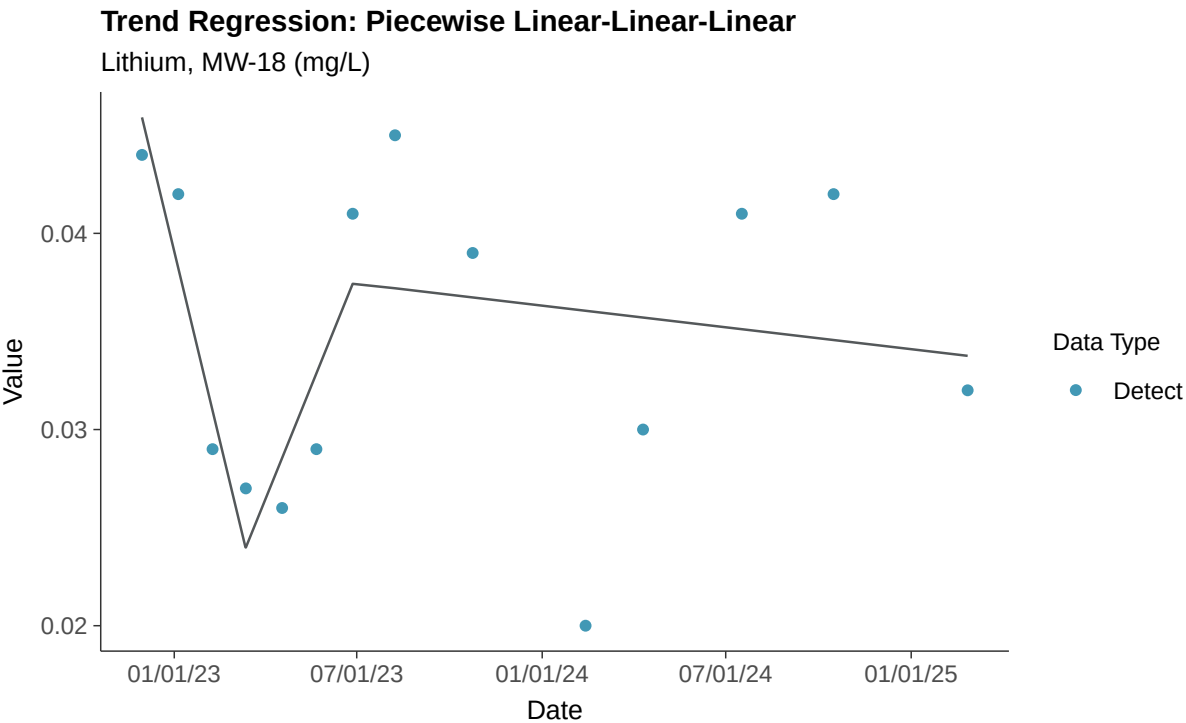
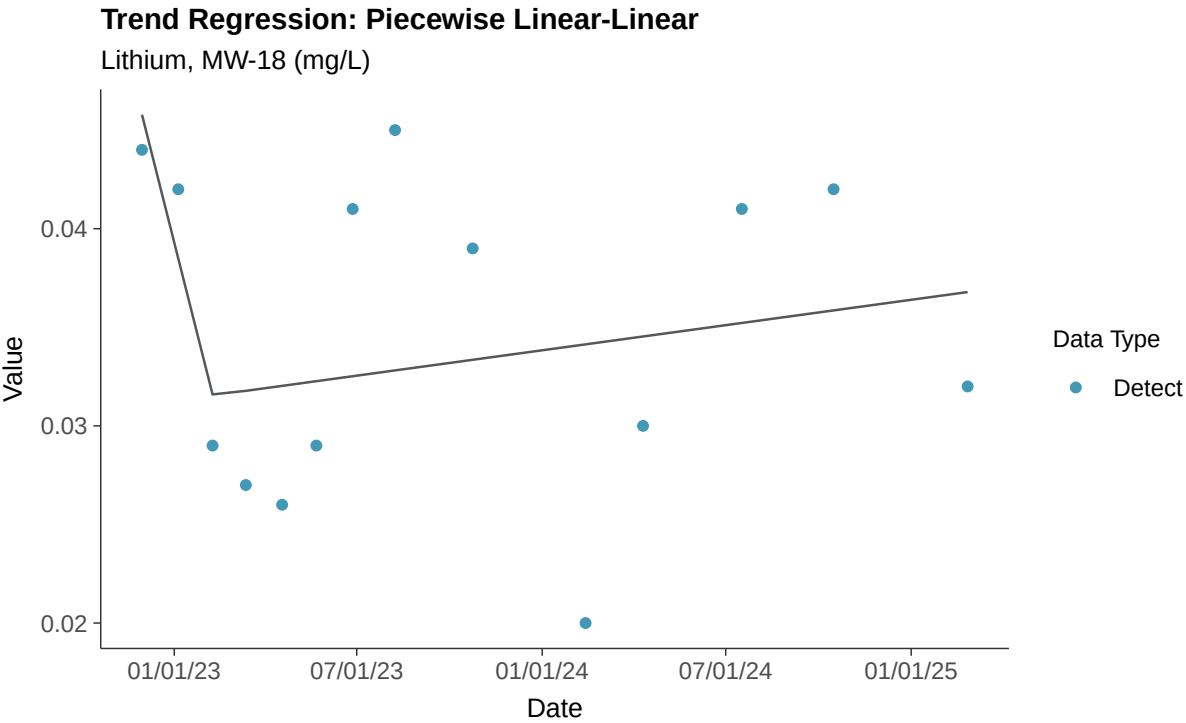
ID: 28_1_4_116







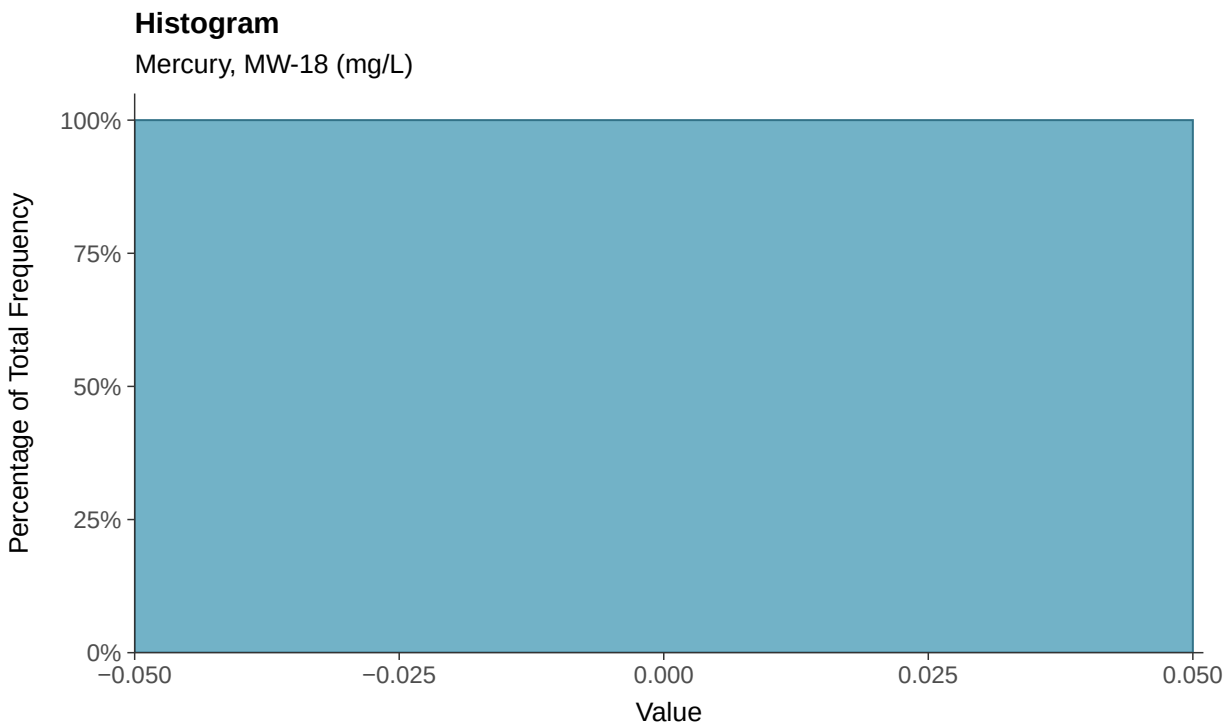
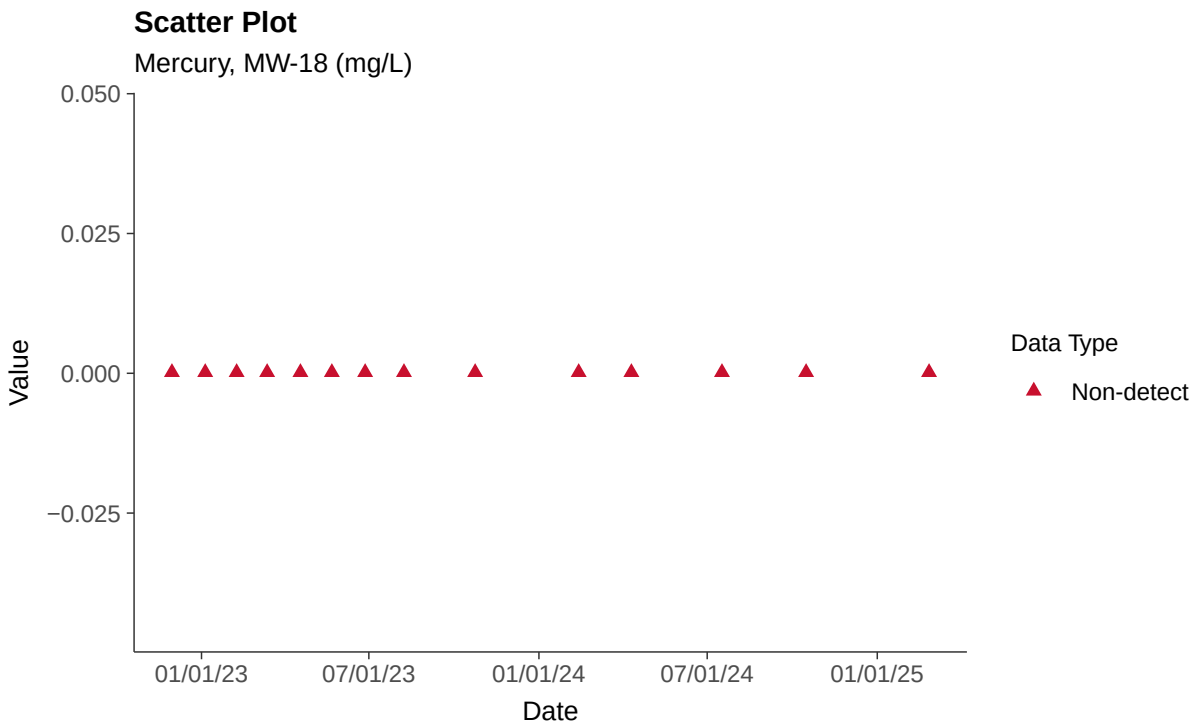


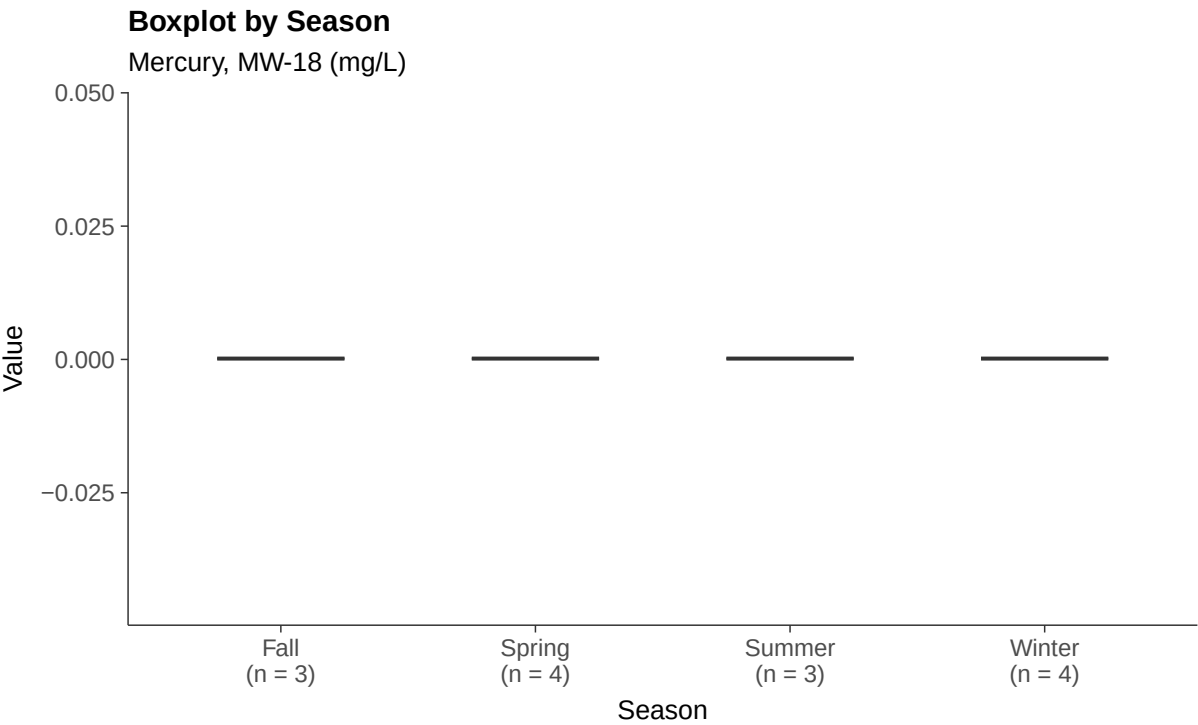
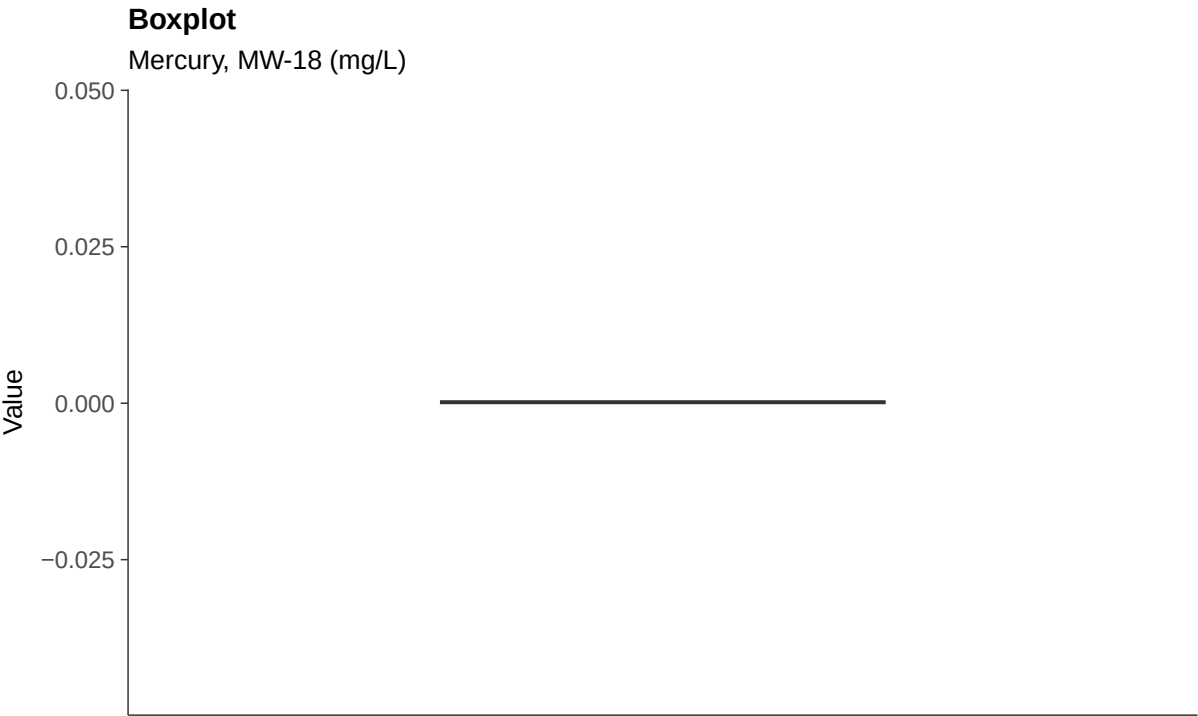




Appendix IV: Mercury, MW-18

ID: 28_1_4_117

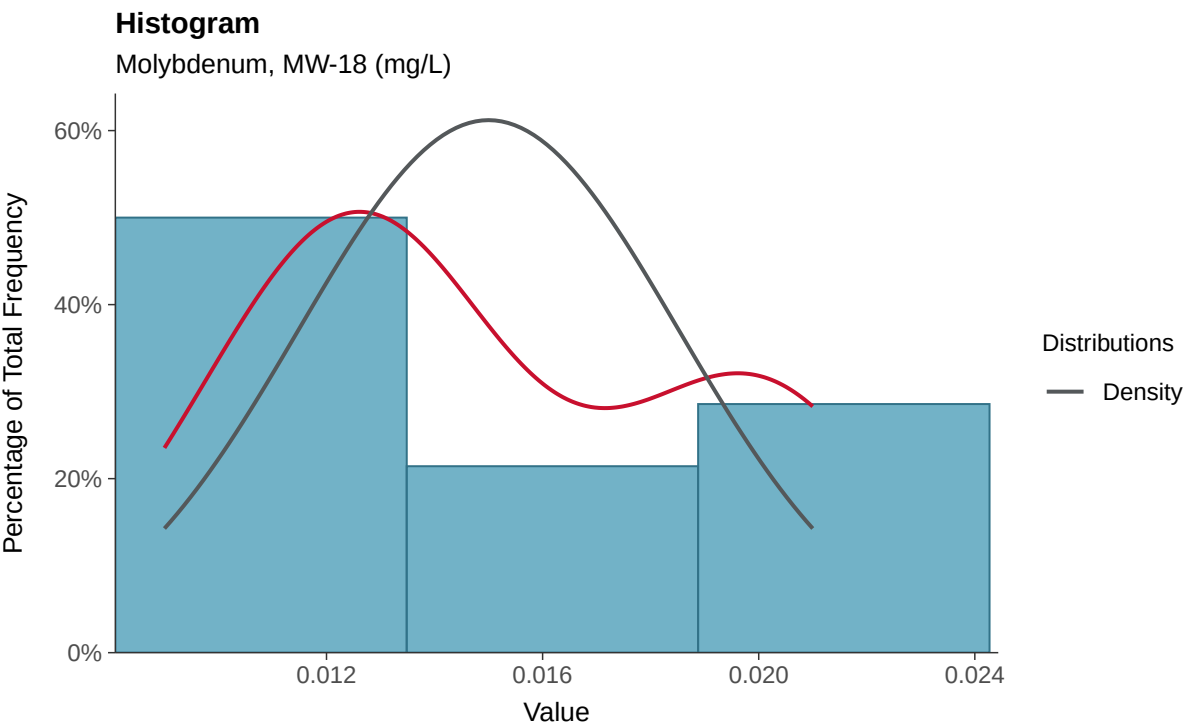
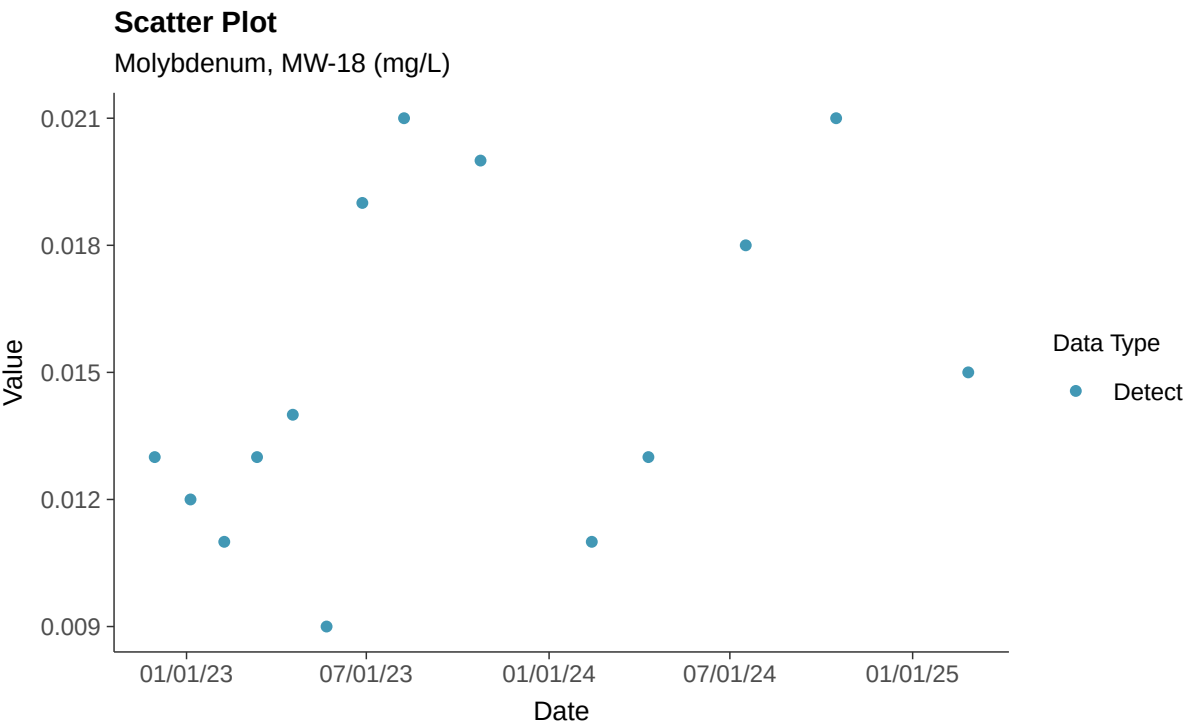


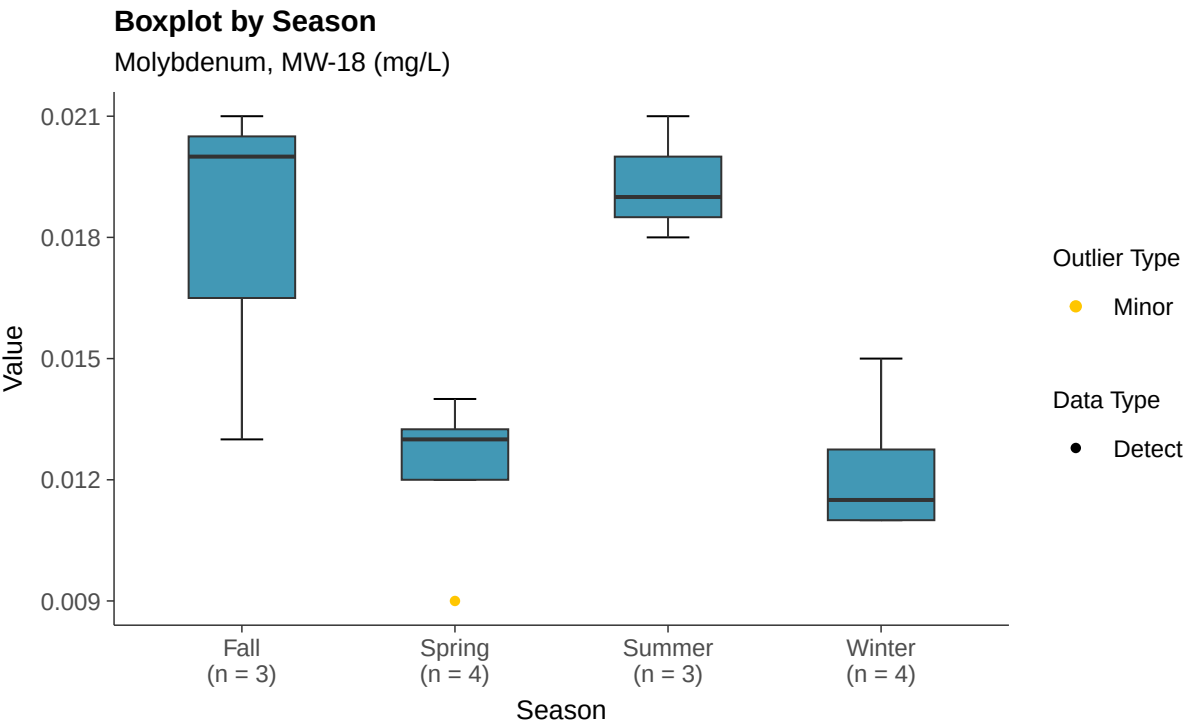
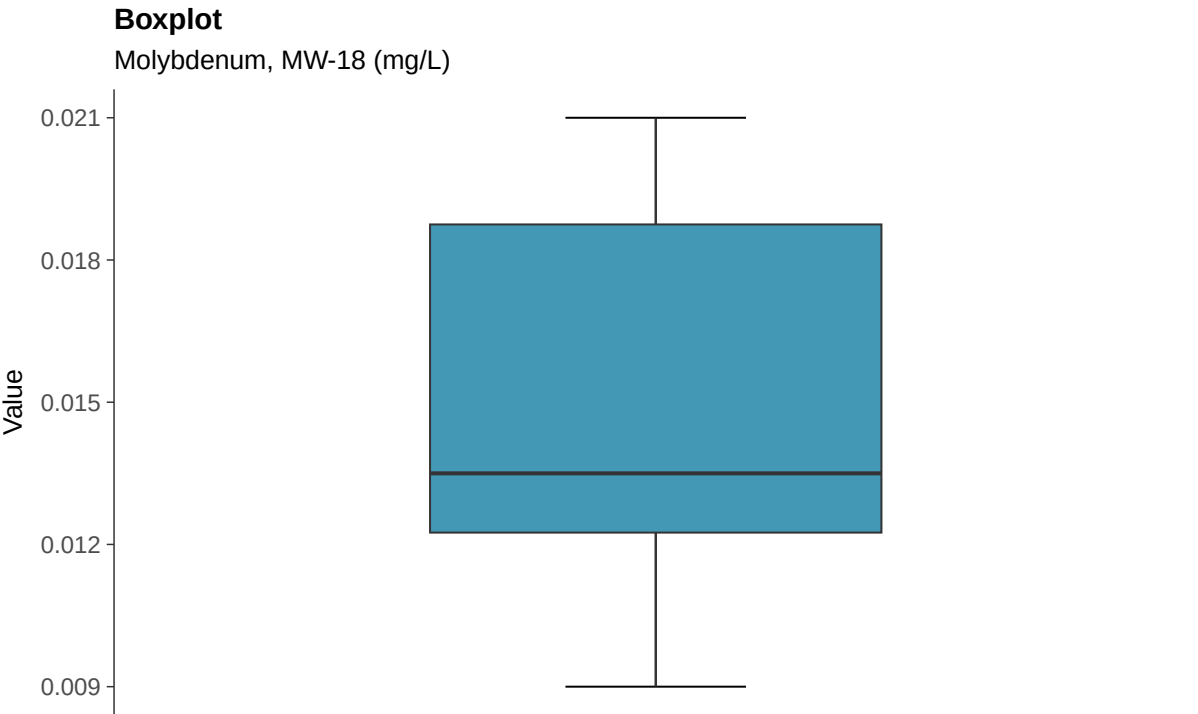


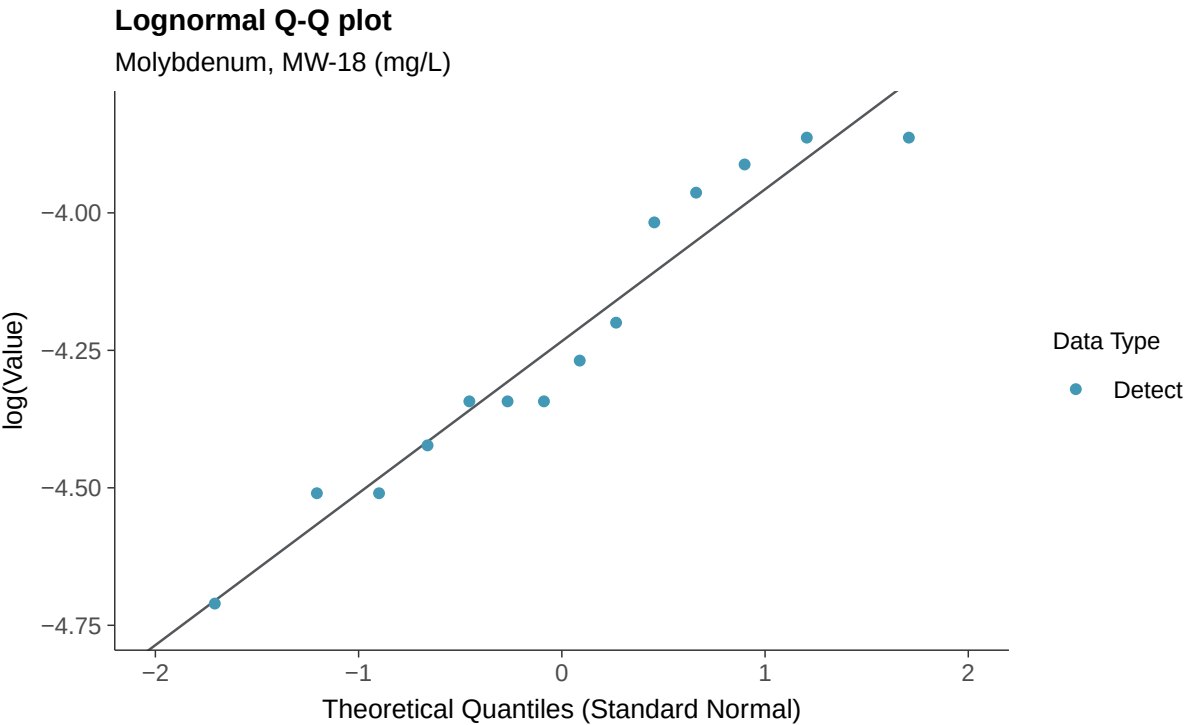
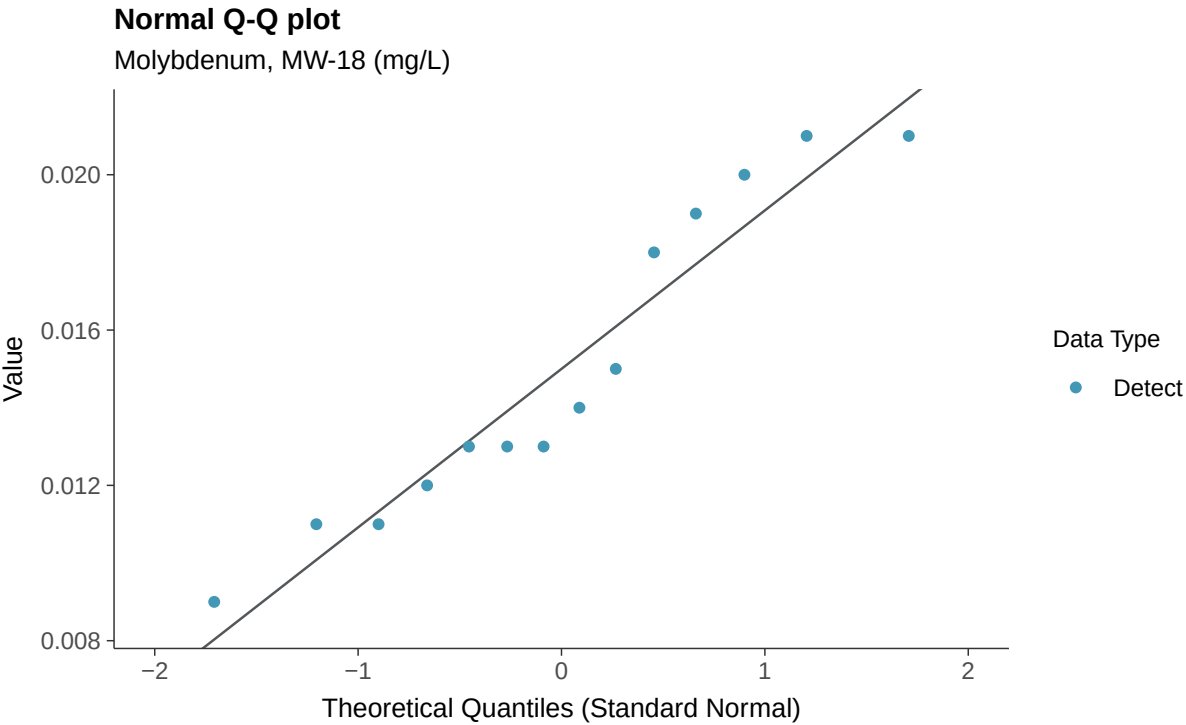


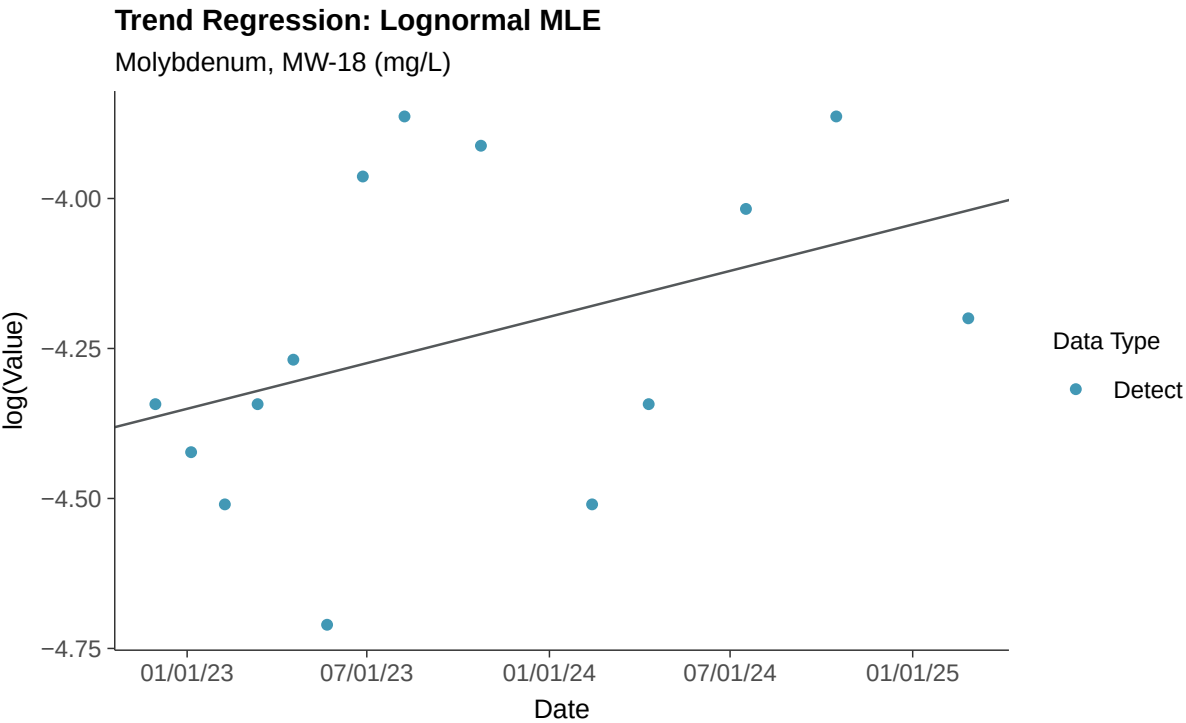
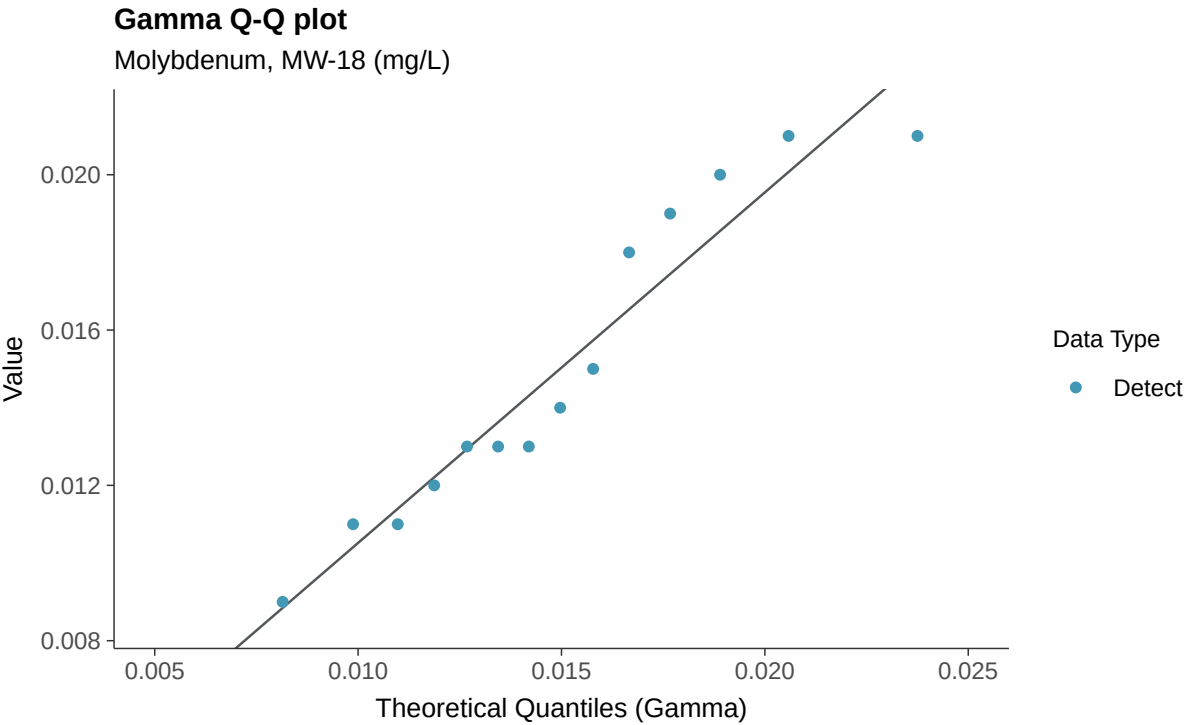
Appendix IV: Molybdenum, MW-18

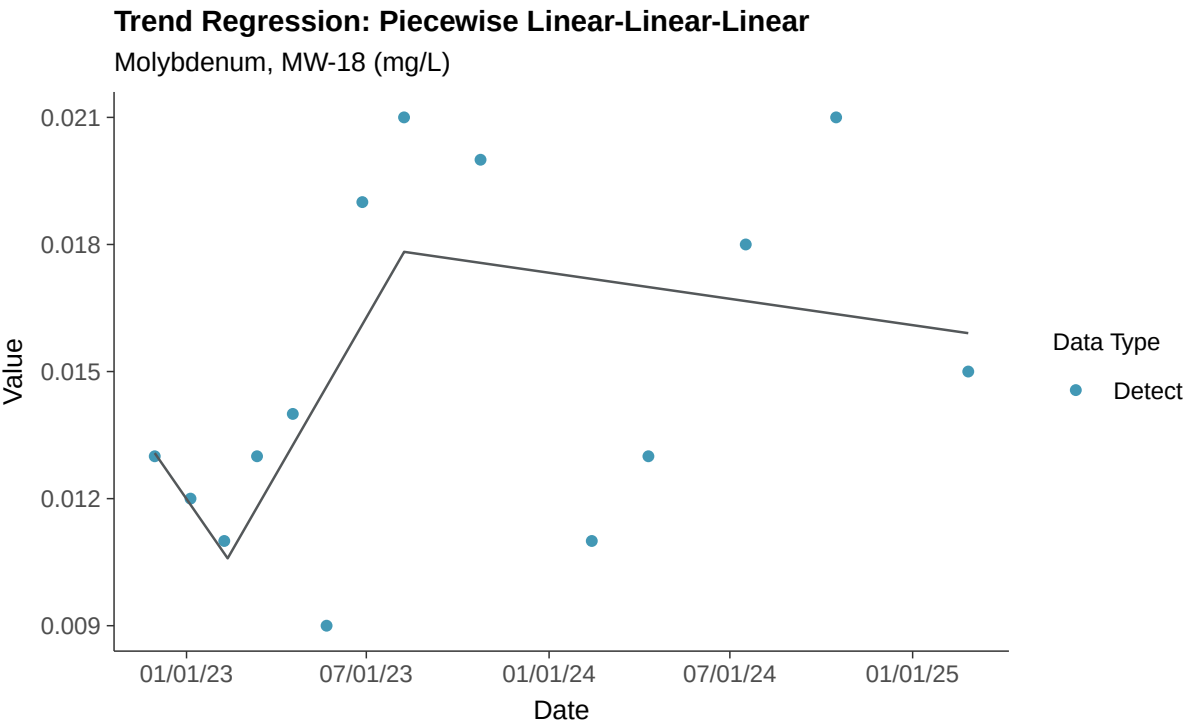
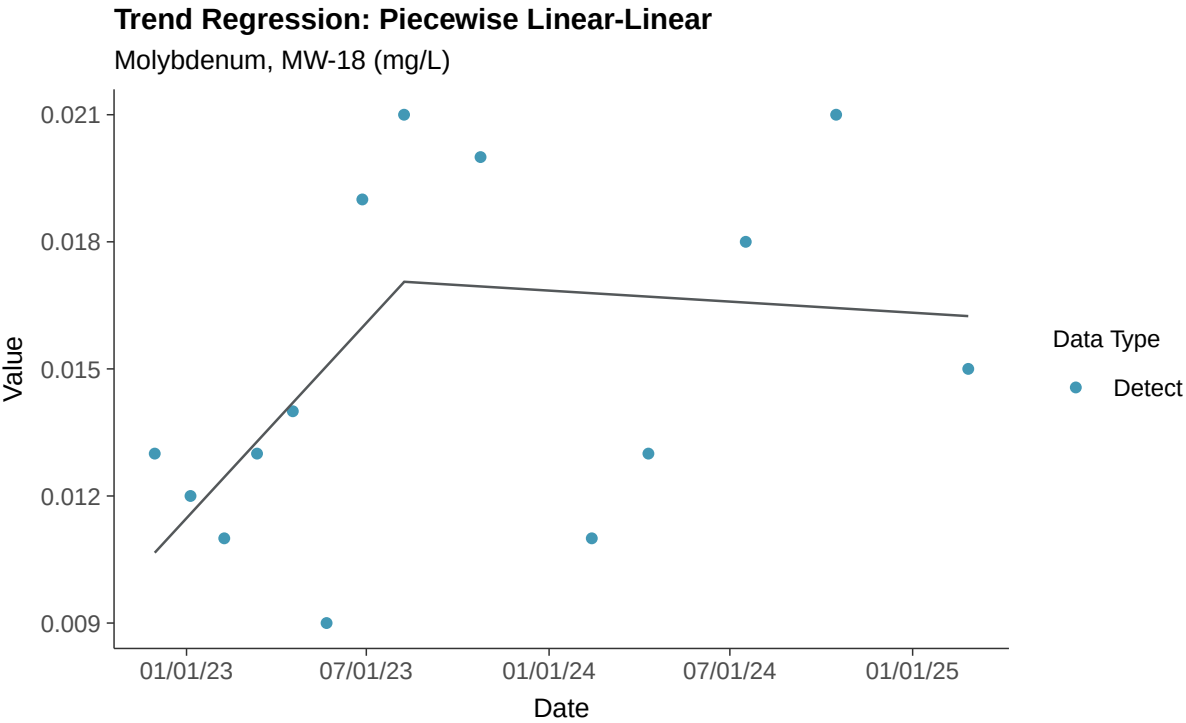
ID: 28_1_4_118







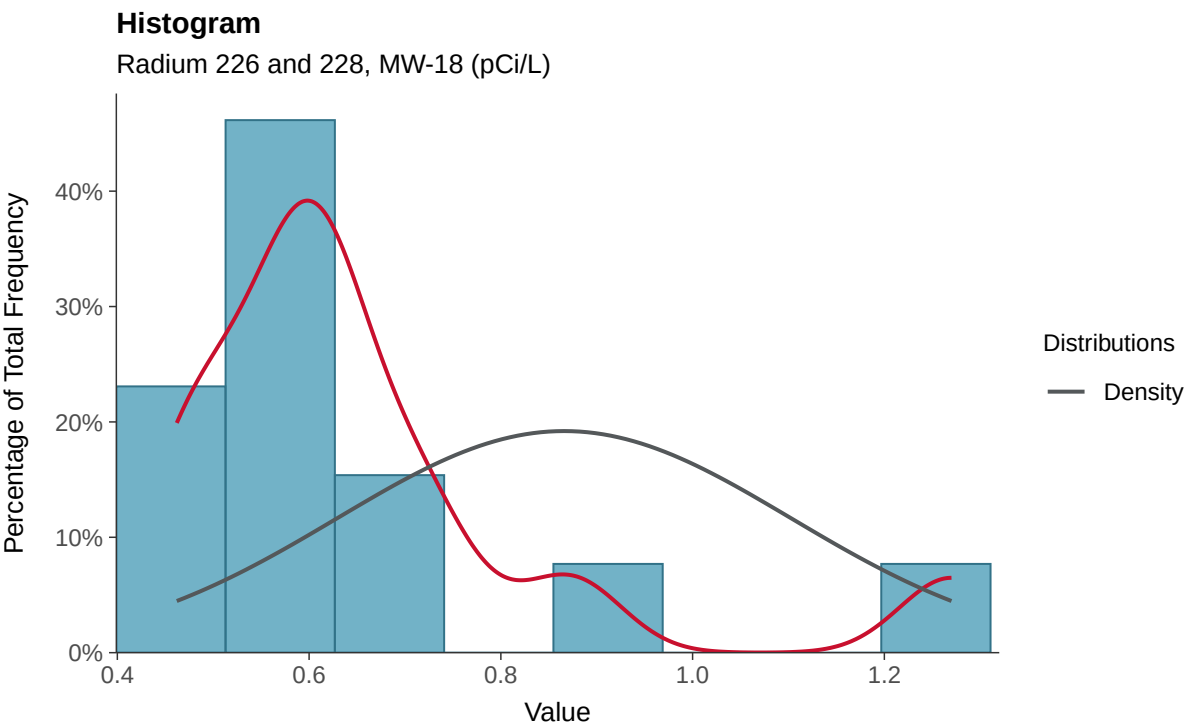
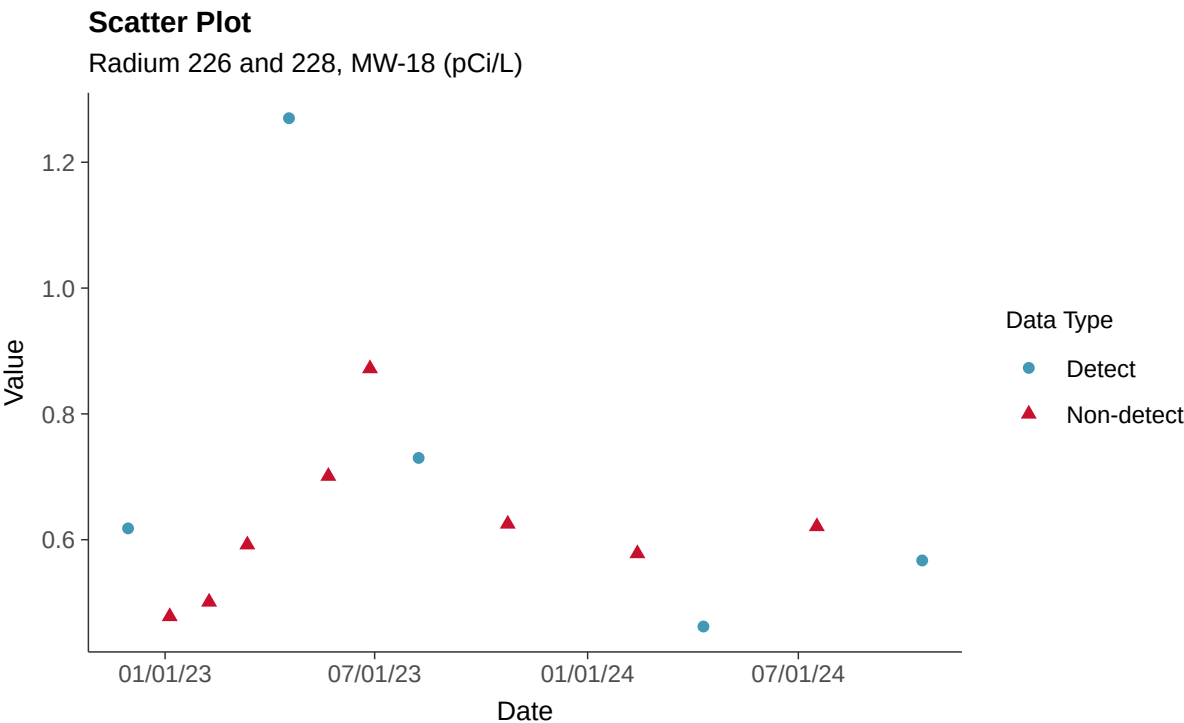


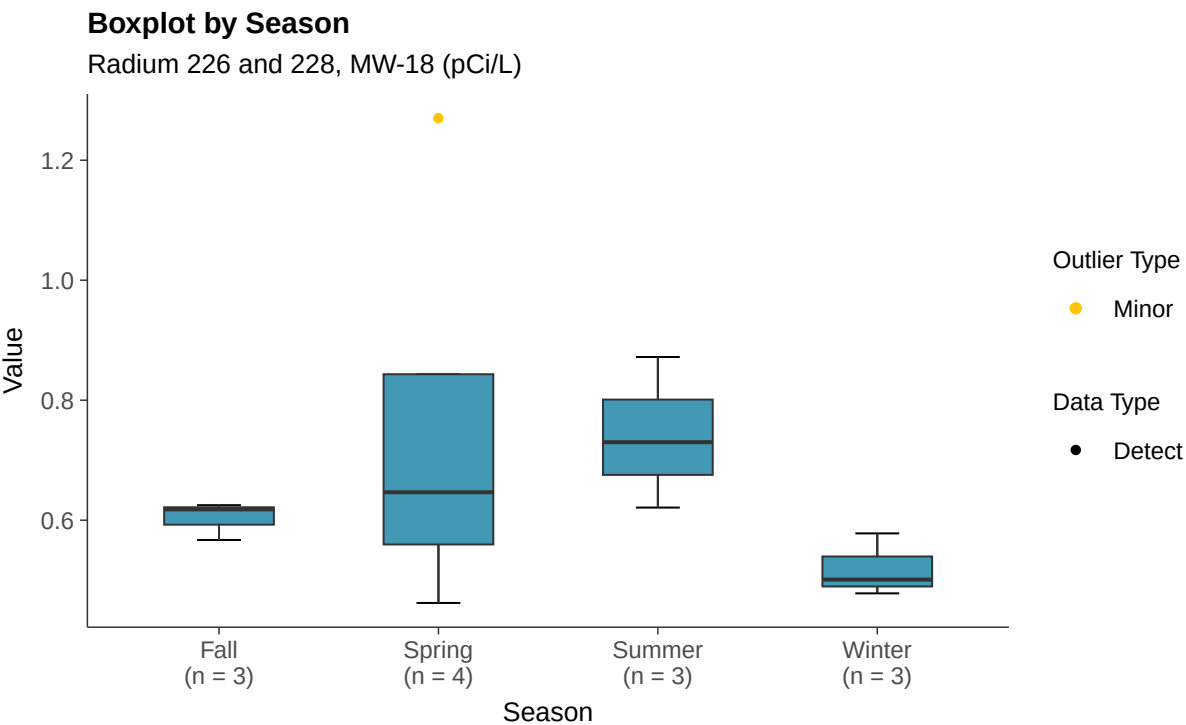
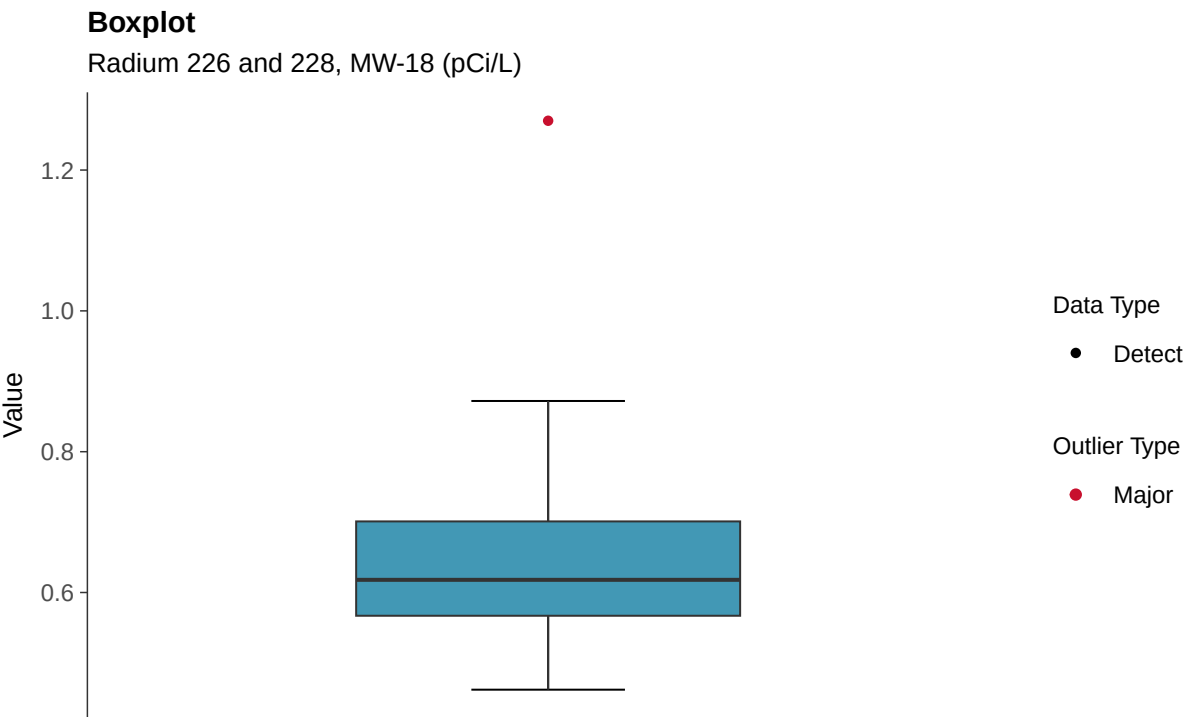




Appendix IV: Radium 226 and 228, MW-18

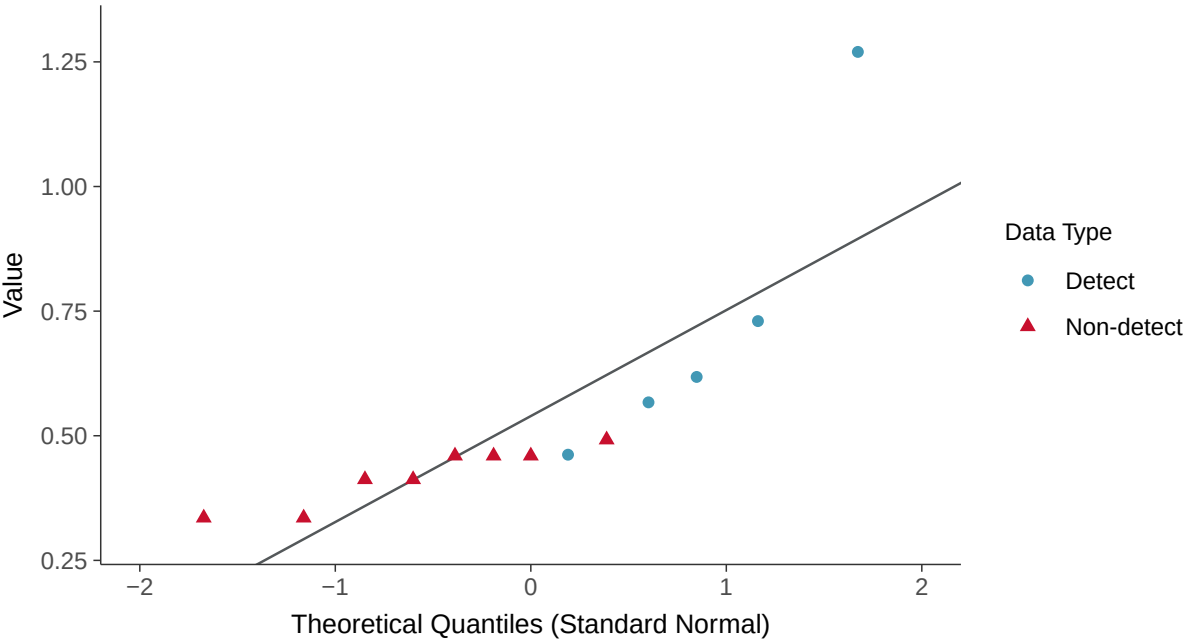
ID: 28_1_4_121



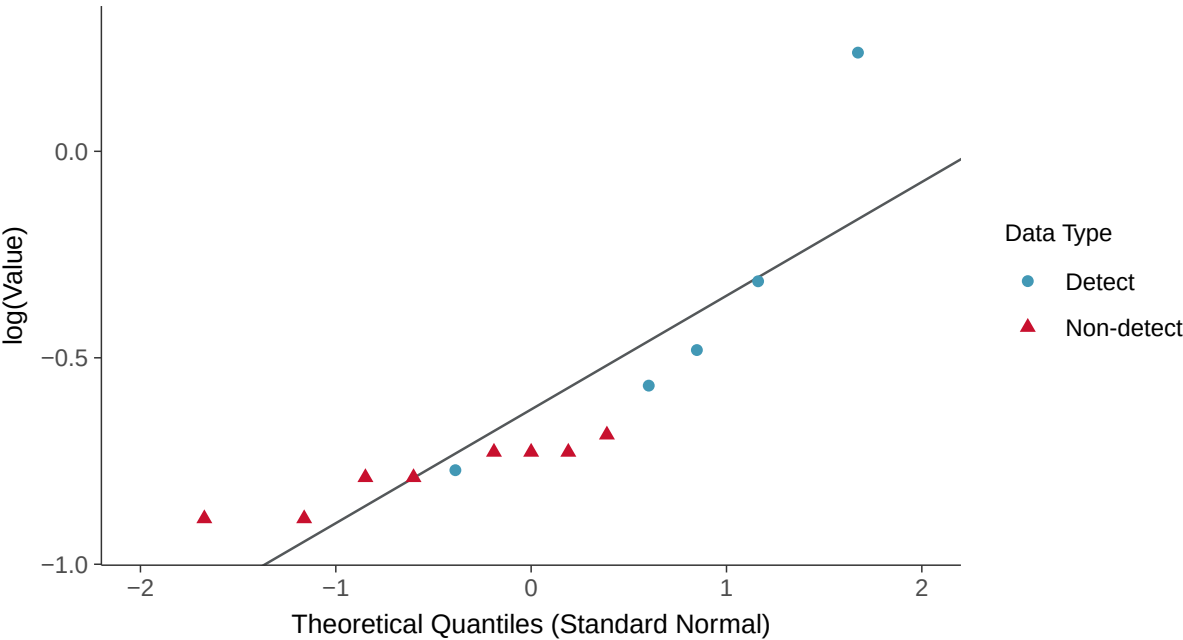




Normal Q-Q plot using ROS Imputed Estimates
Radium 226 and 228, MW-18 (pCi/L)



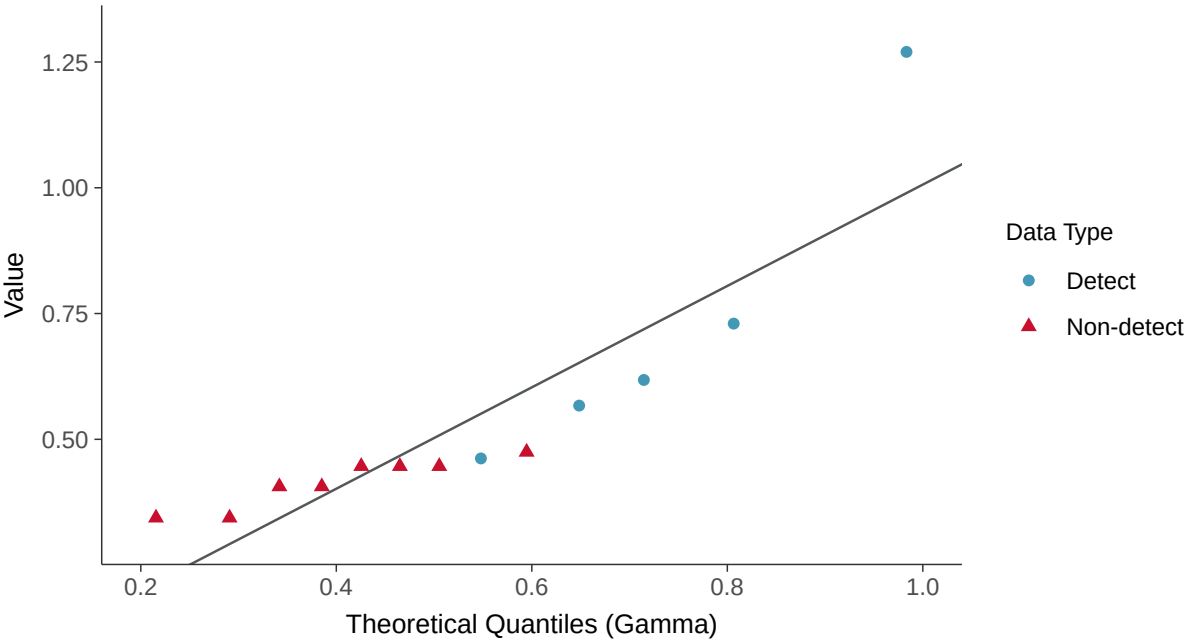
Lognormal Q-Q plot using ROS Imputed Estimates
Radium 226 and 228, MW-18 (pCi/L)





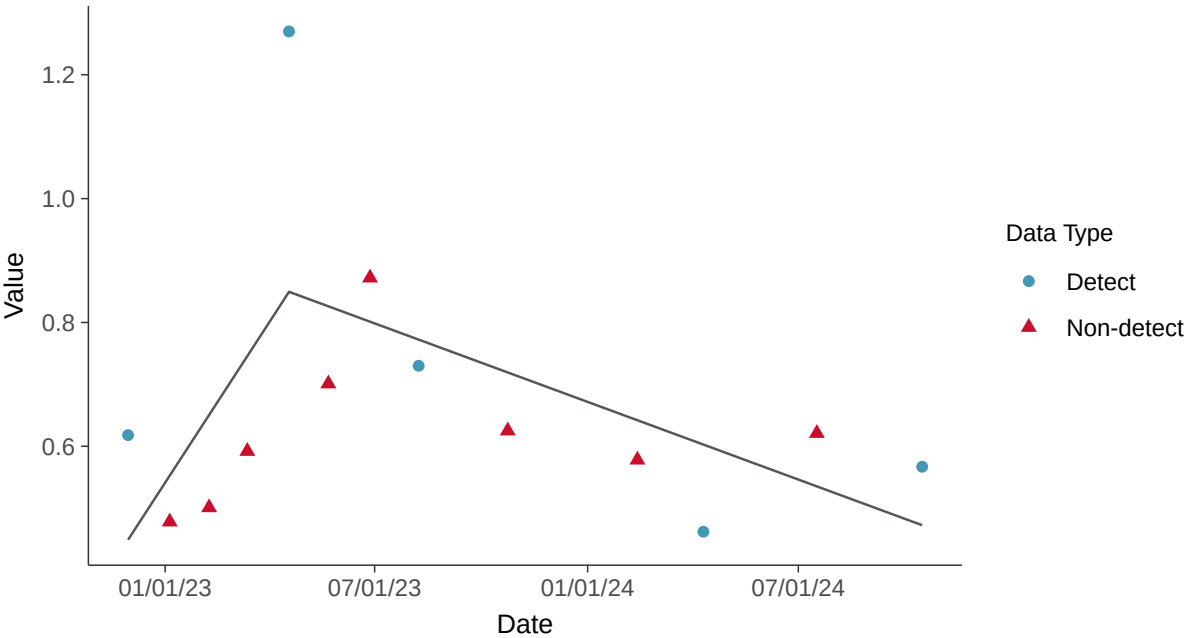
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-18 (pCi/L)



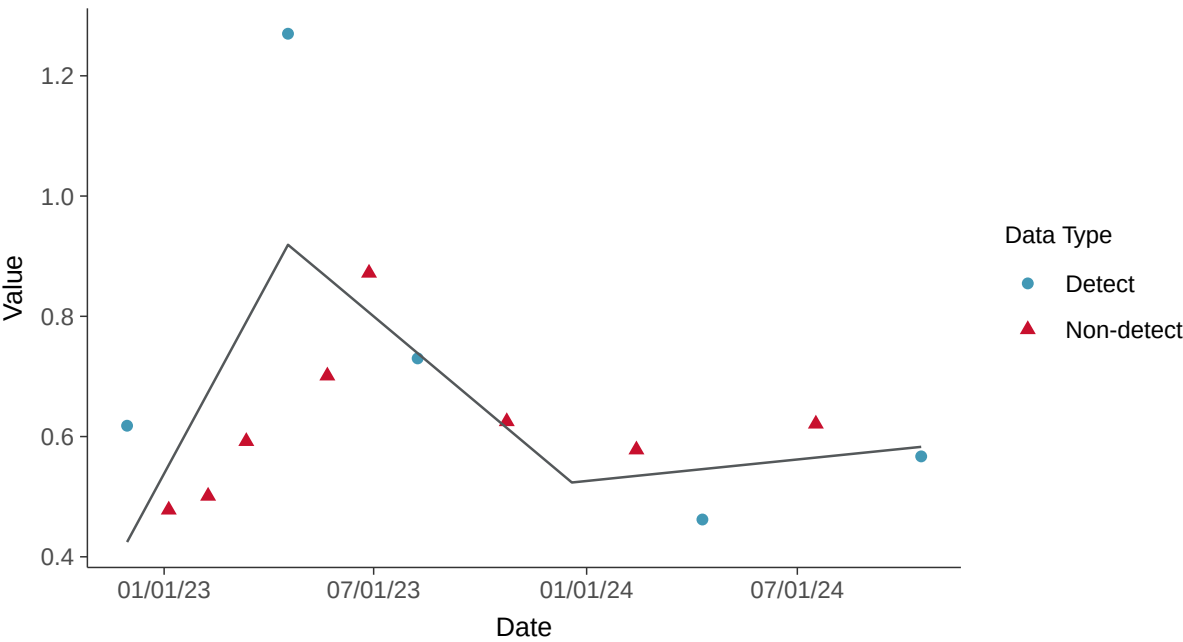
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-18 (pCi/L)





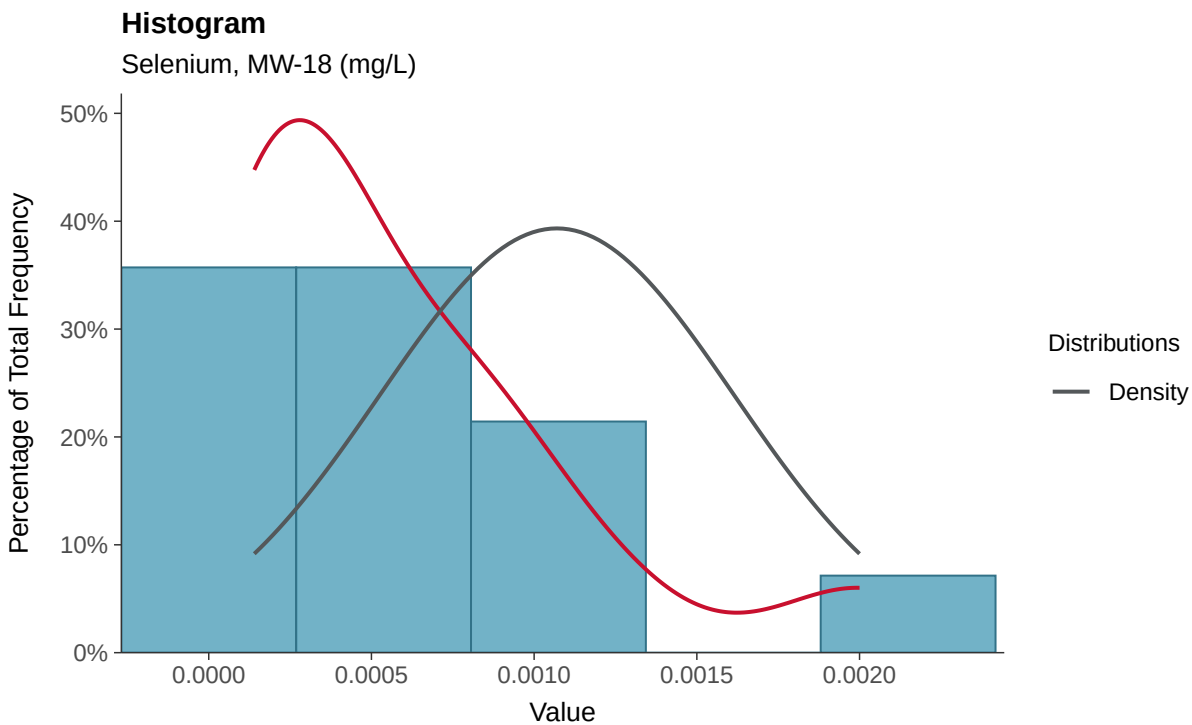
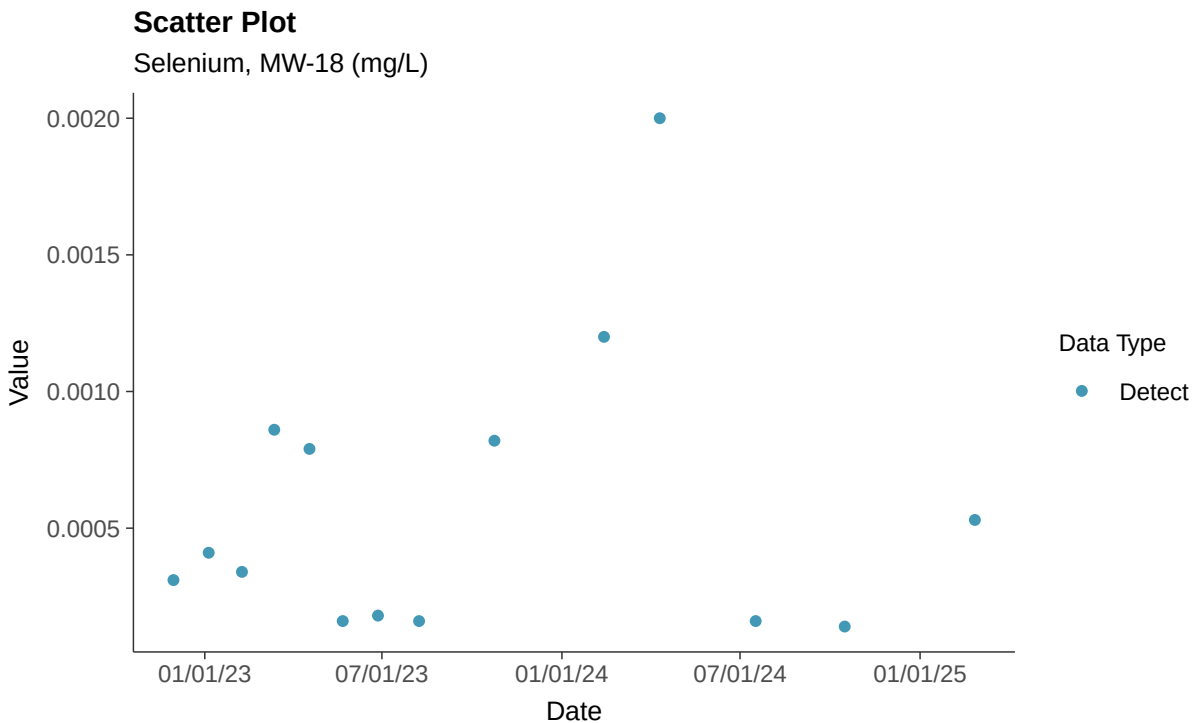
Trend Regression: Piecewise Linear-Linear-Linear
Radium 226 and 228, MW-18 (pCi/L)

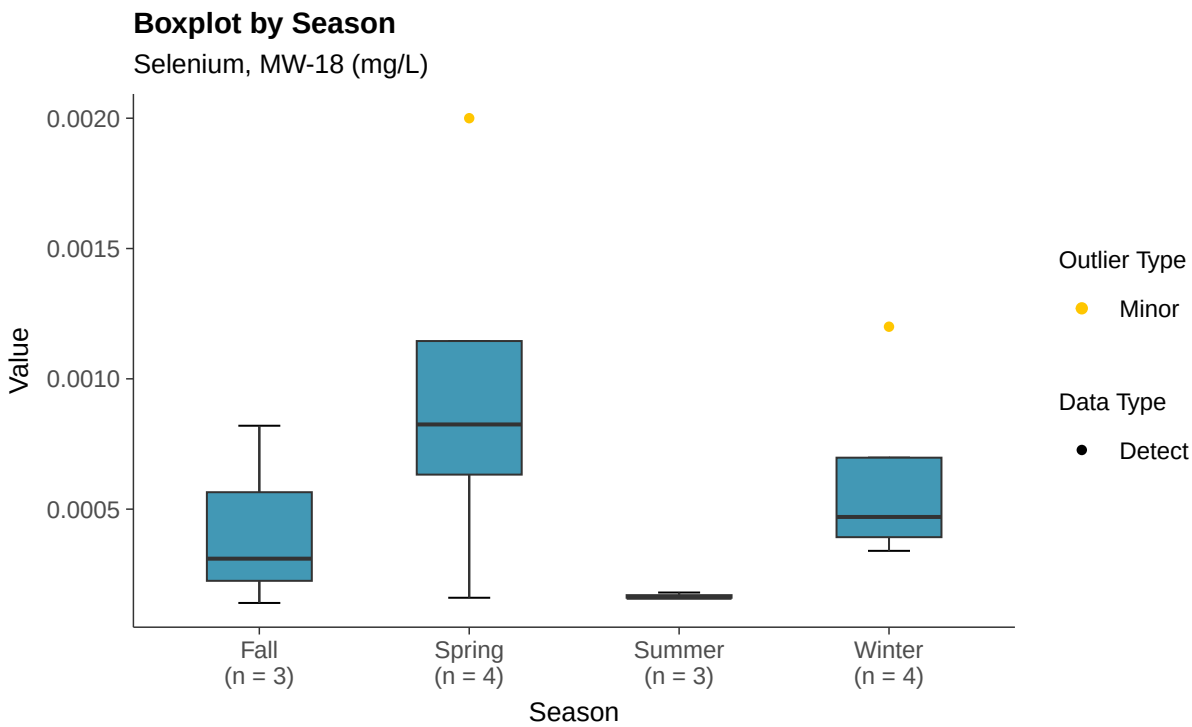
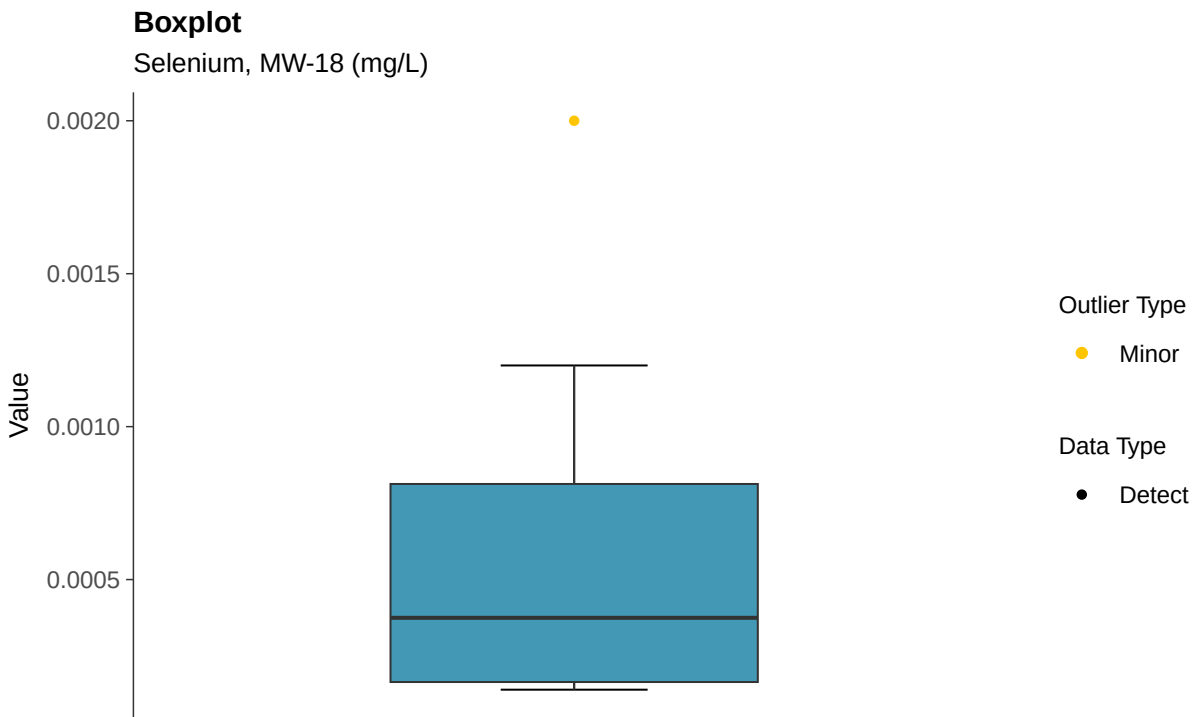


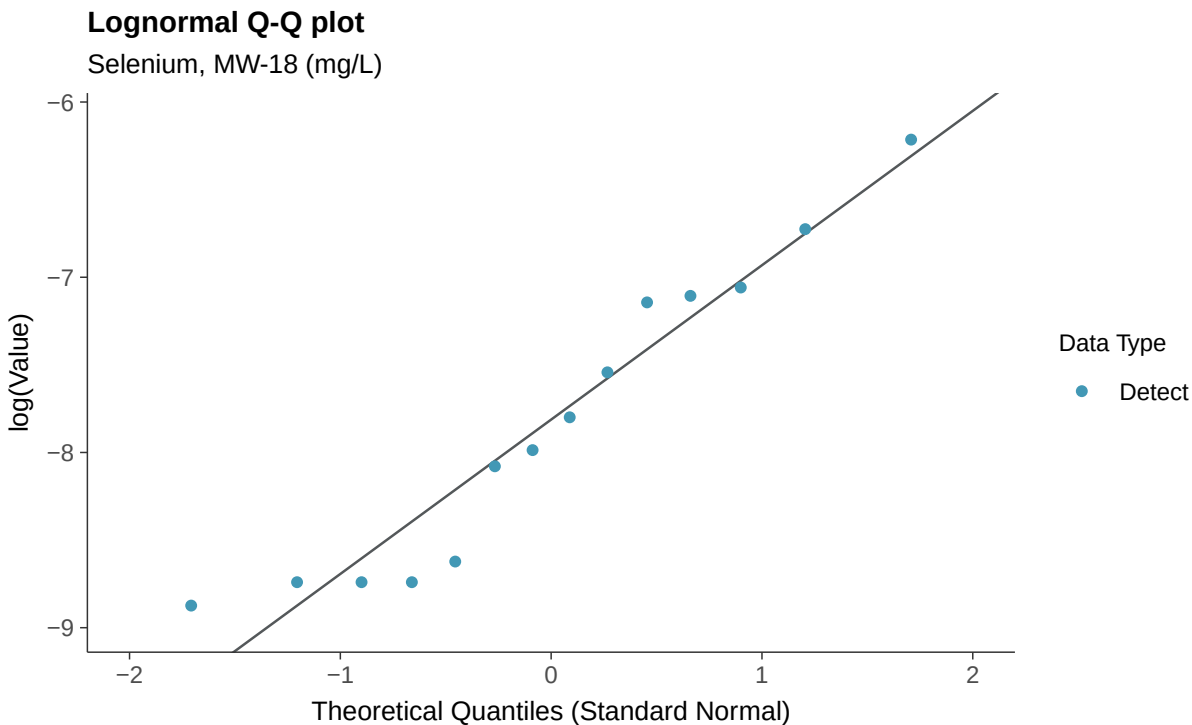
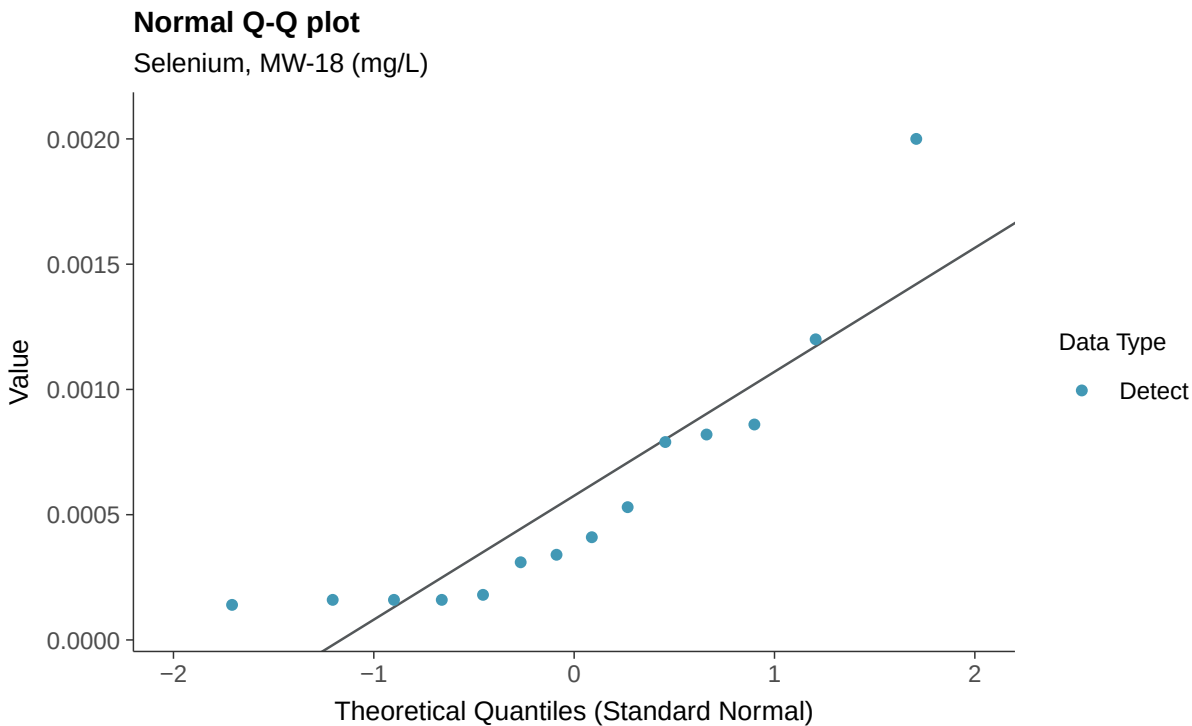


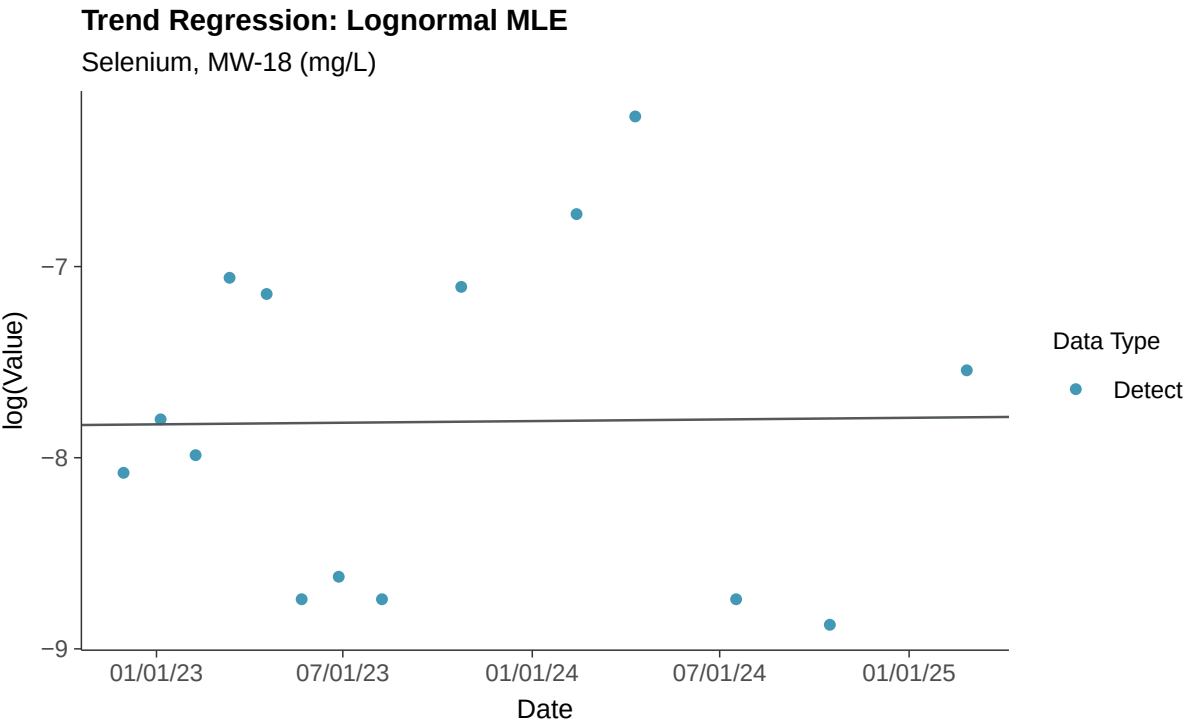
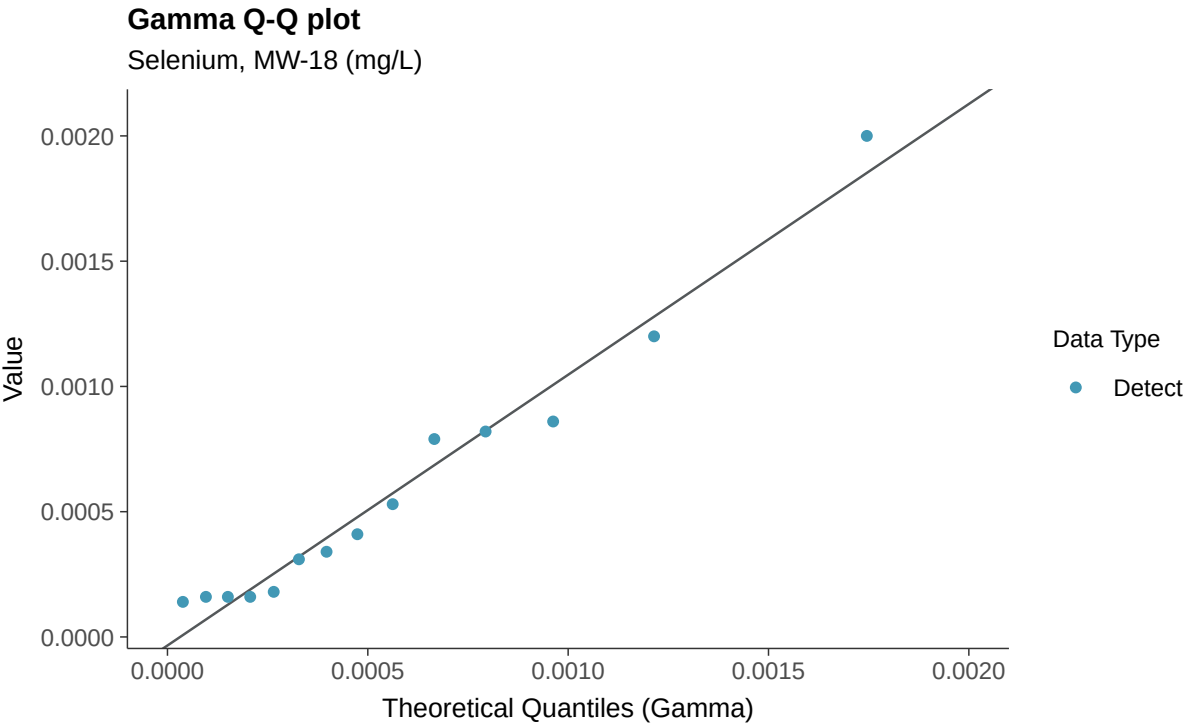
Appendix IV: Selenium, MW-18

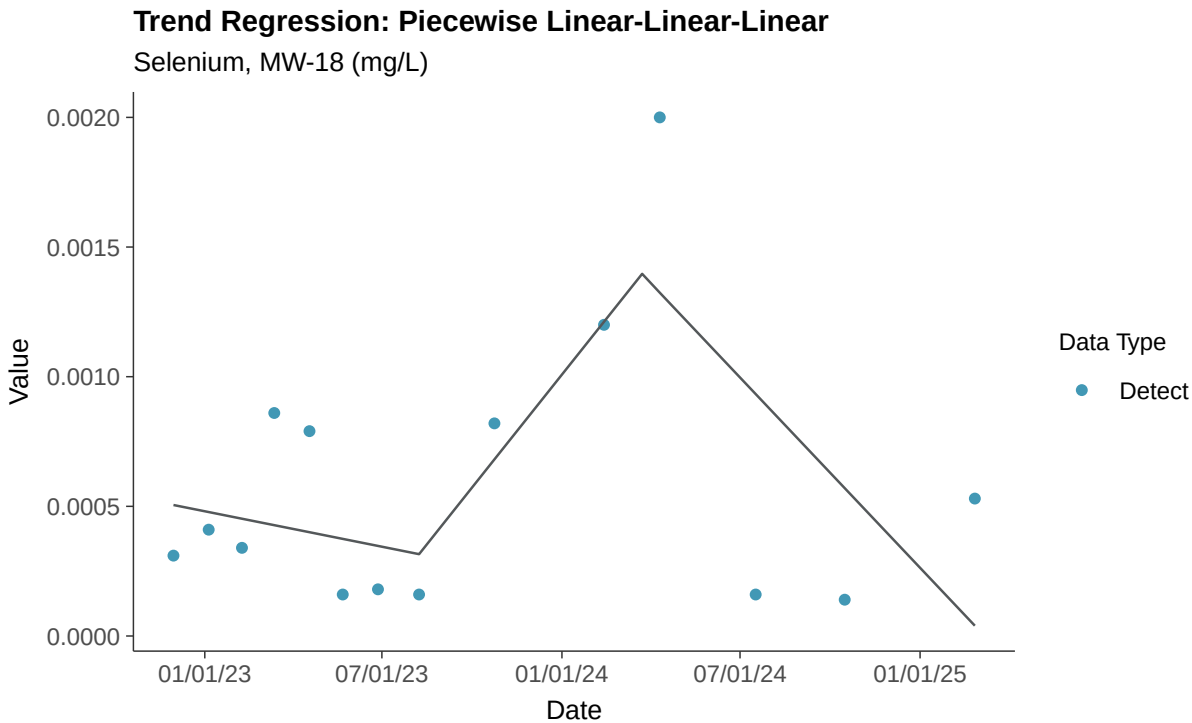
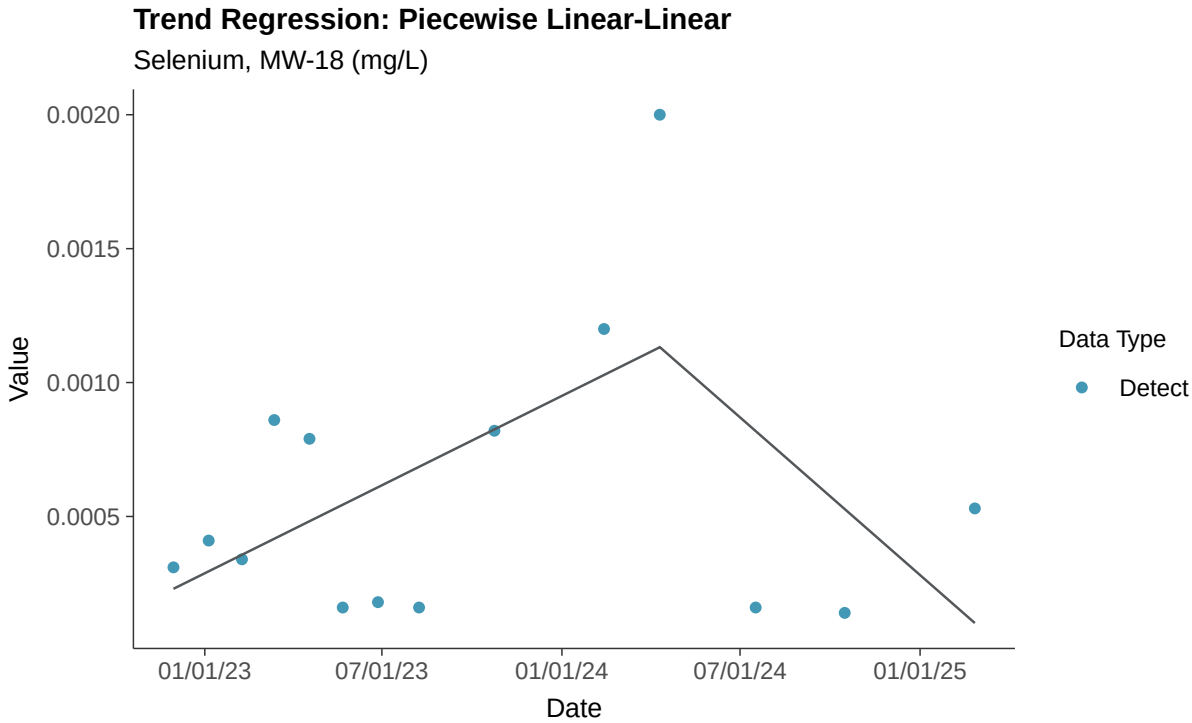
ID: 28_1_4_122







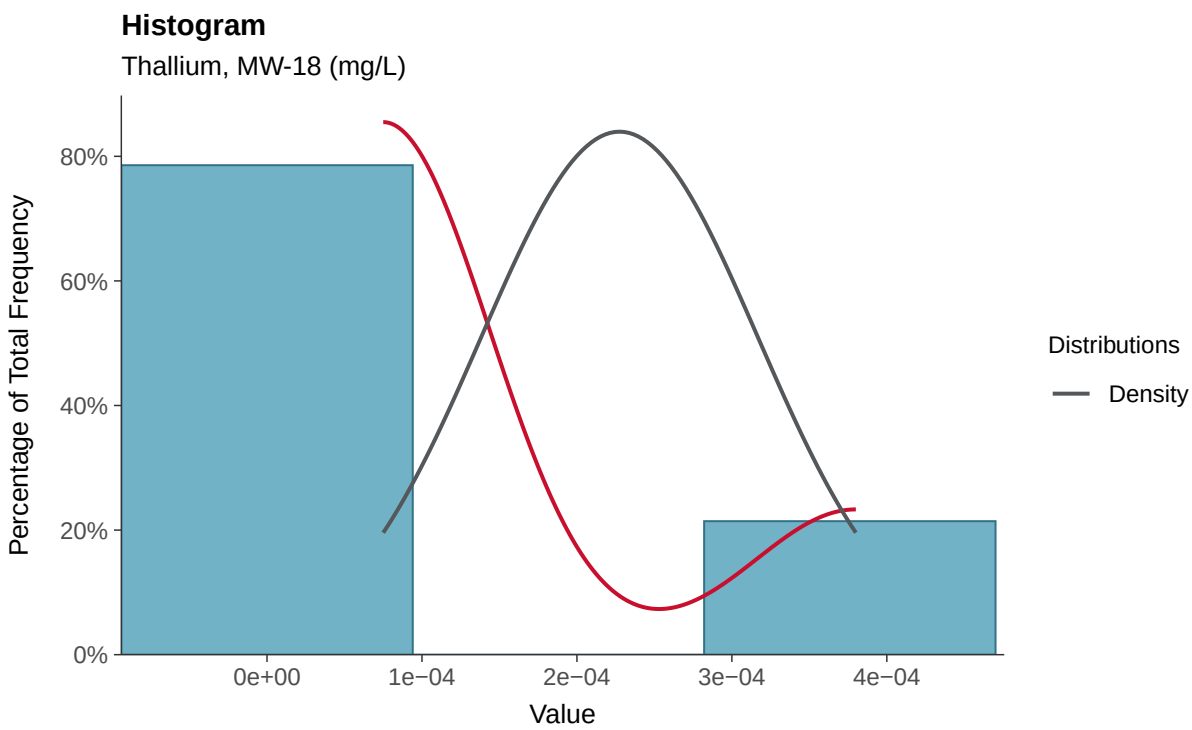
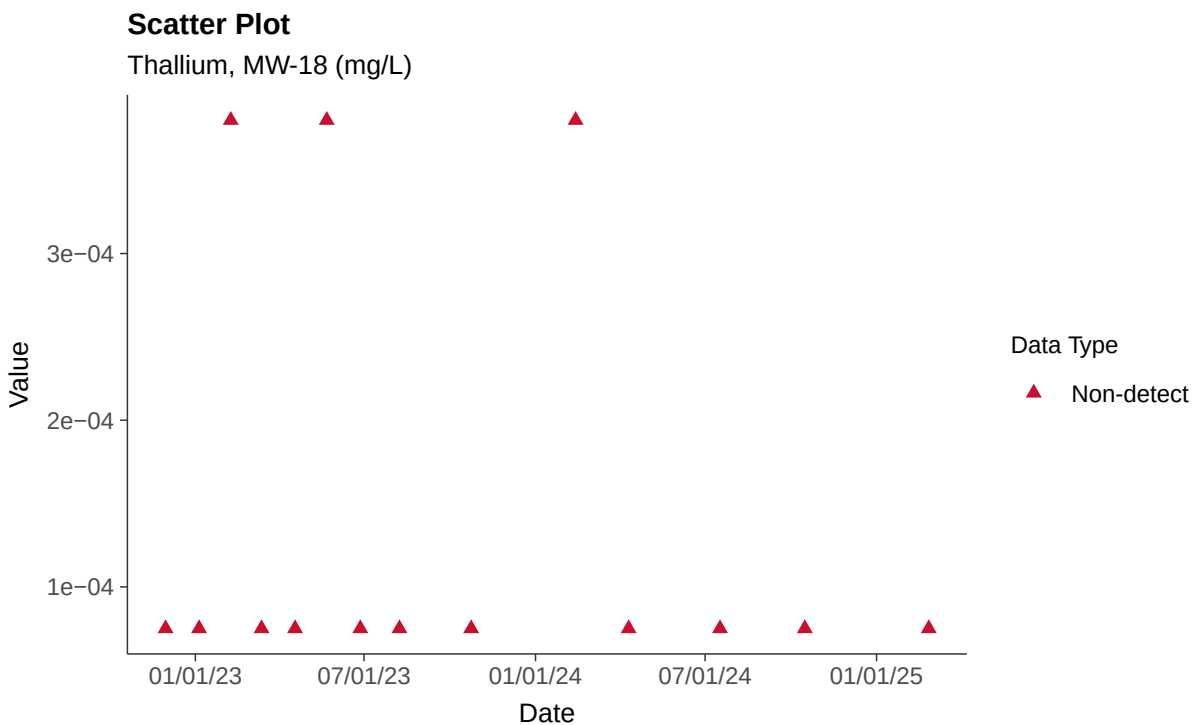


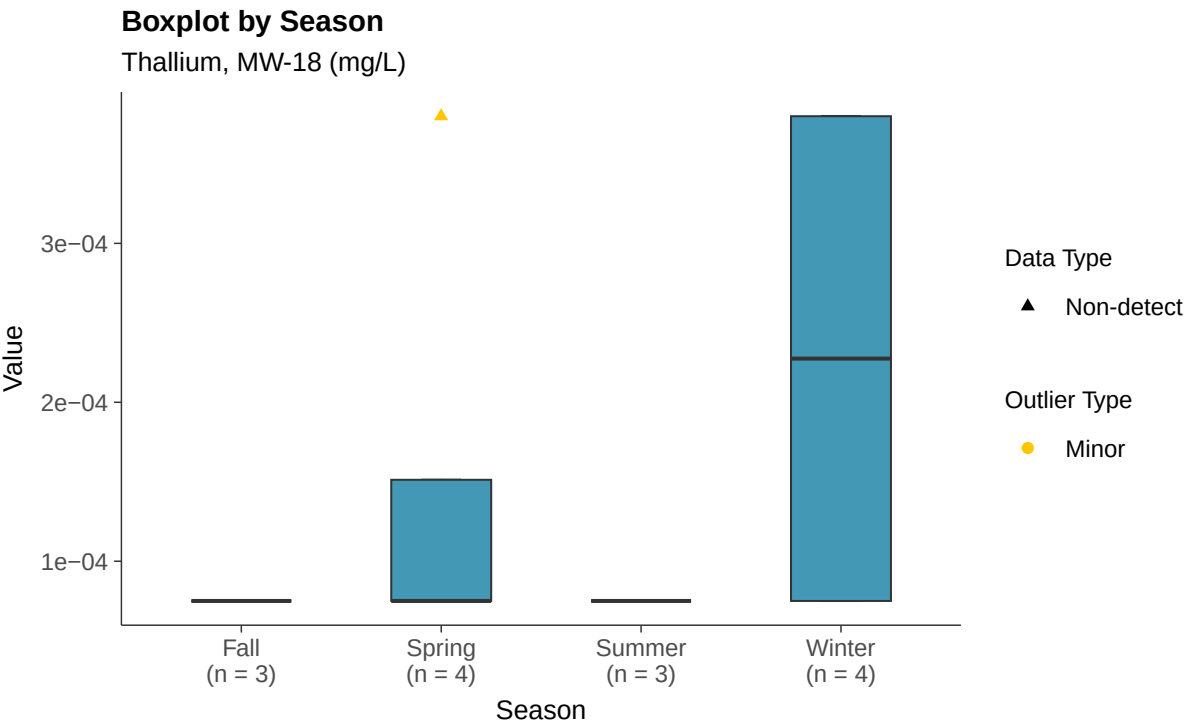
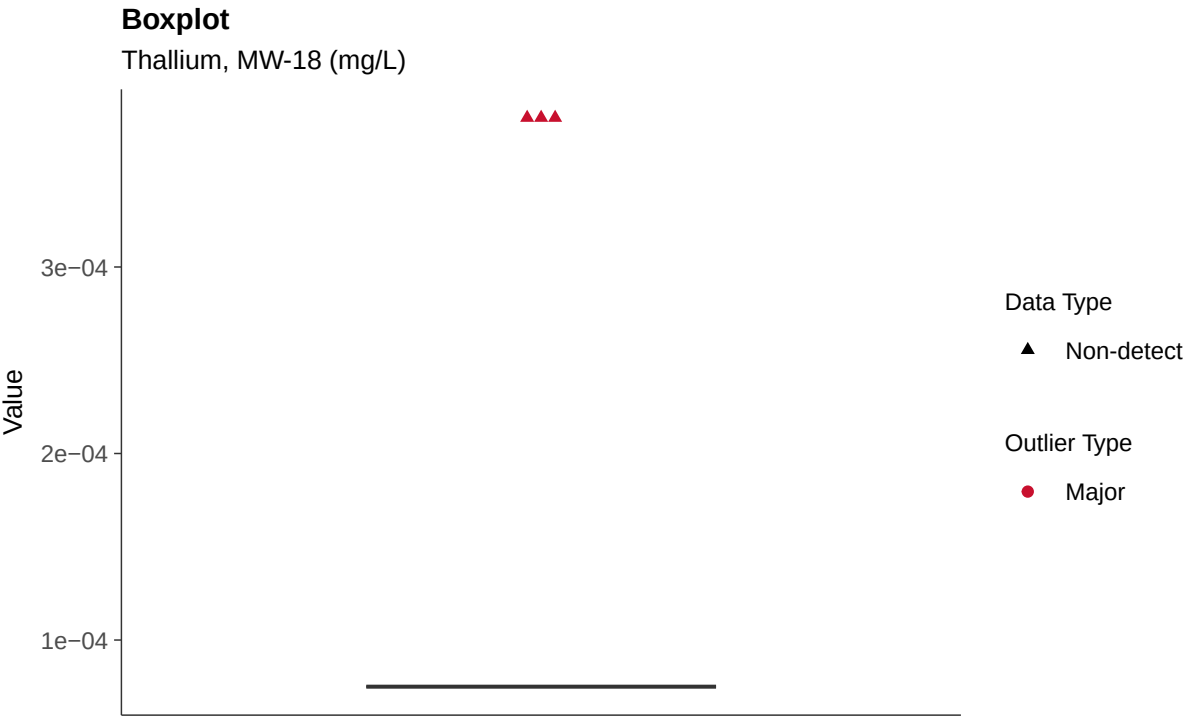


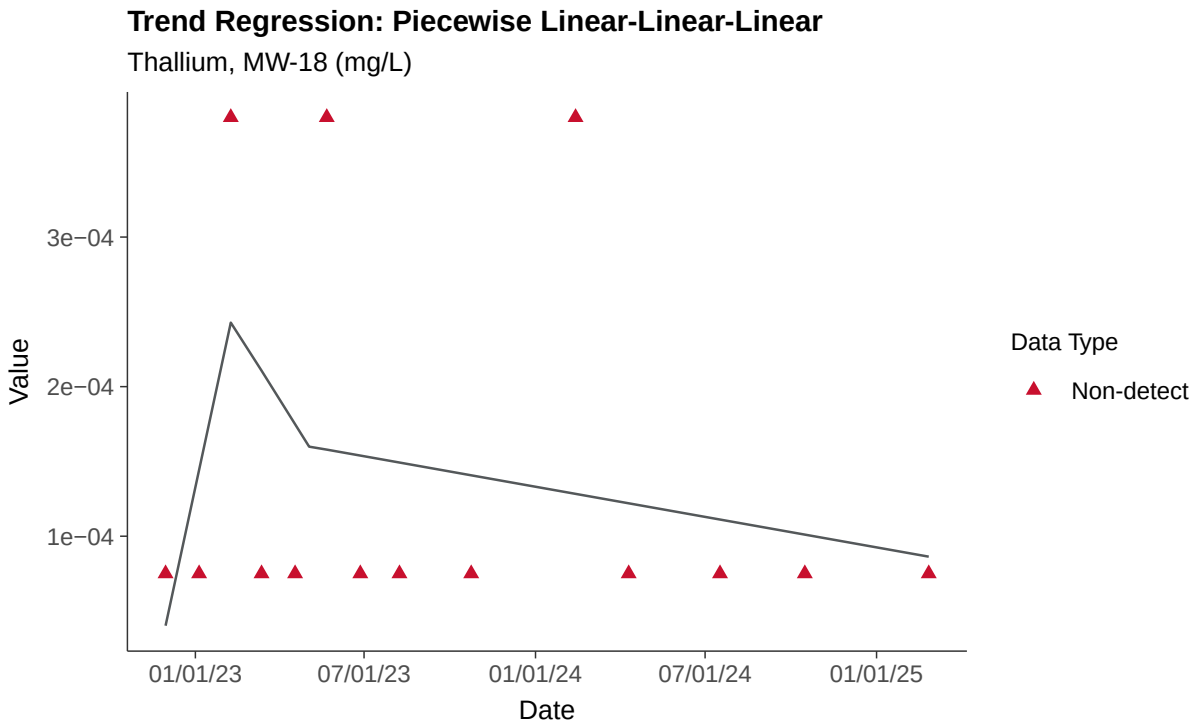
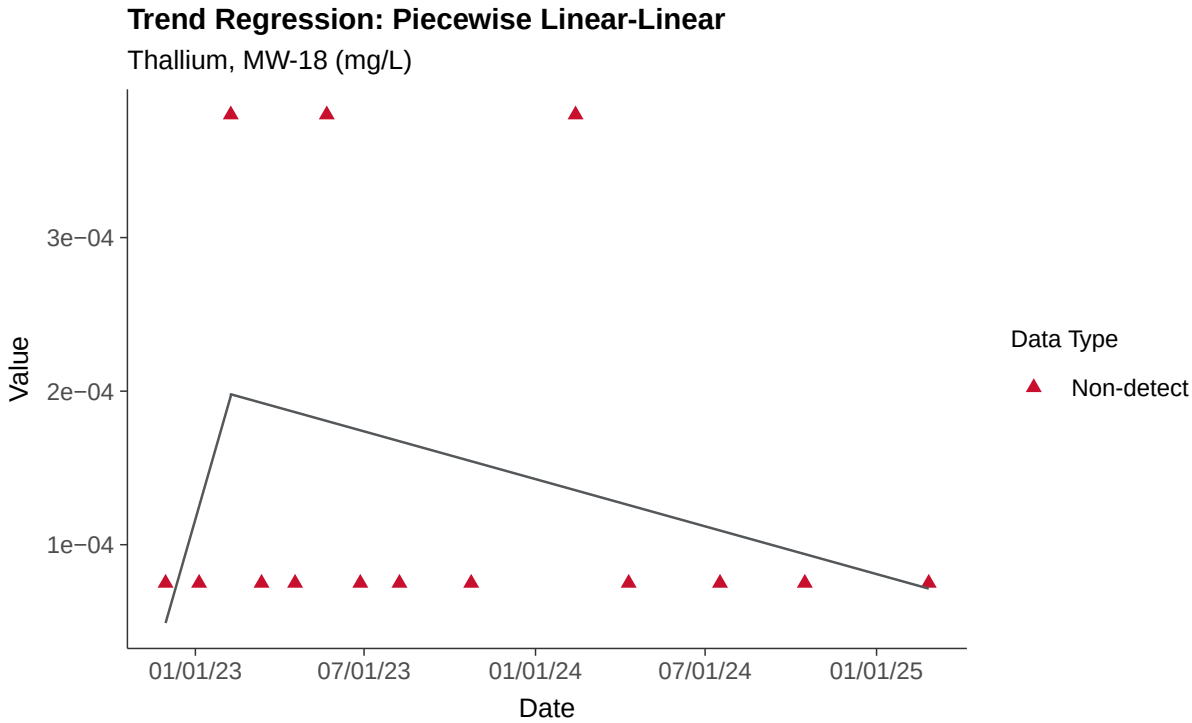


Appendix IV: Thallium, MW-18

ID: 28_1_4_125



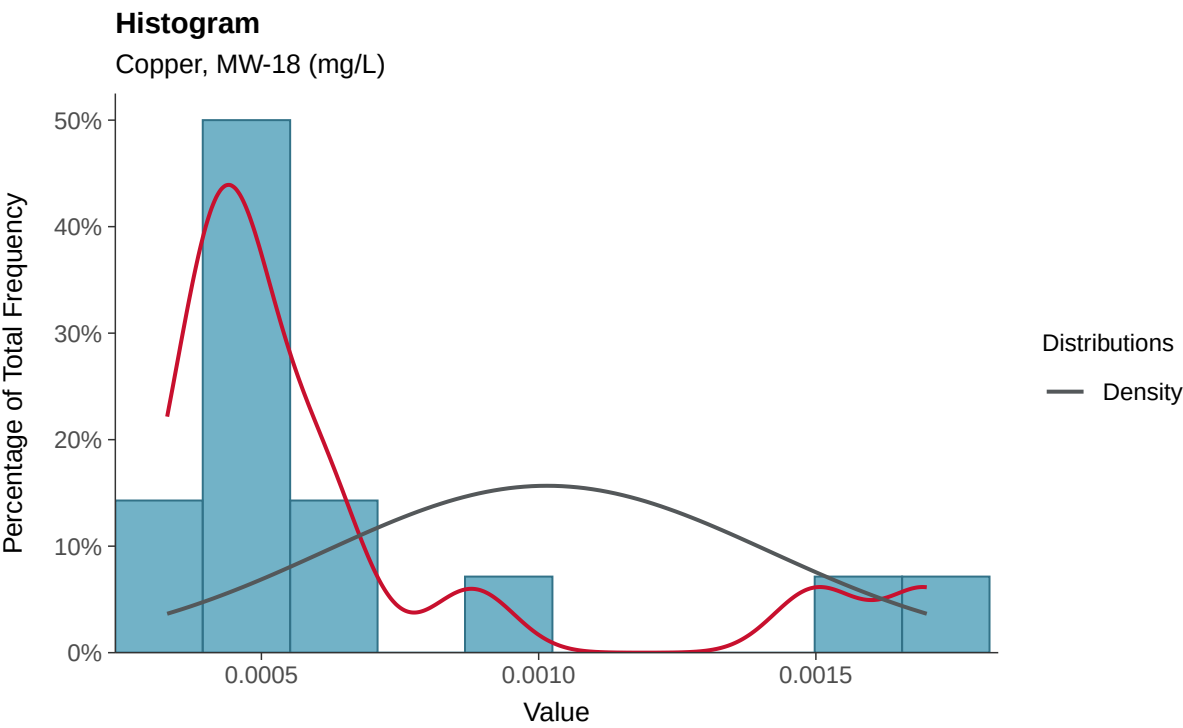
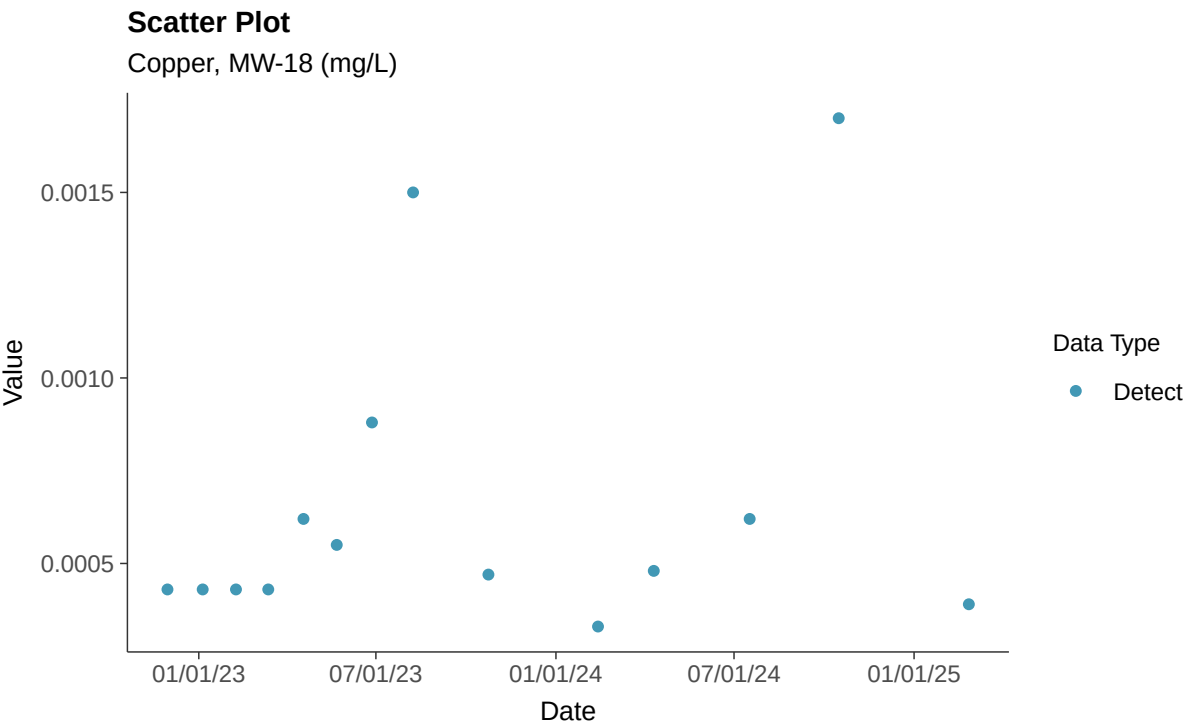


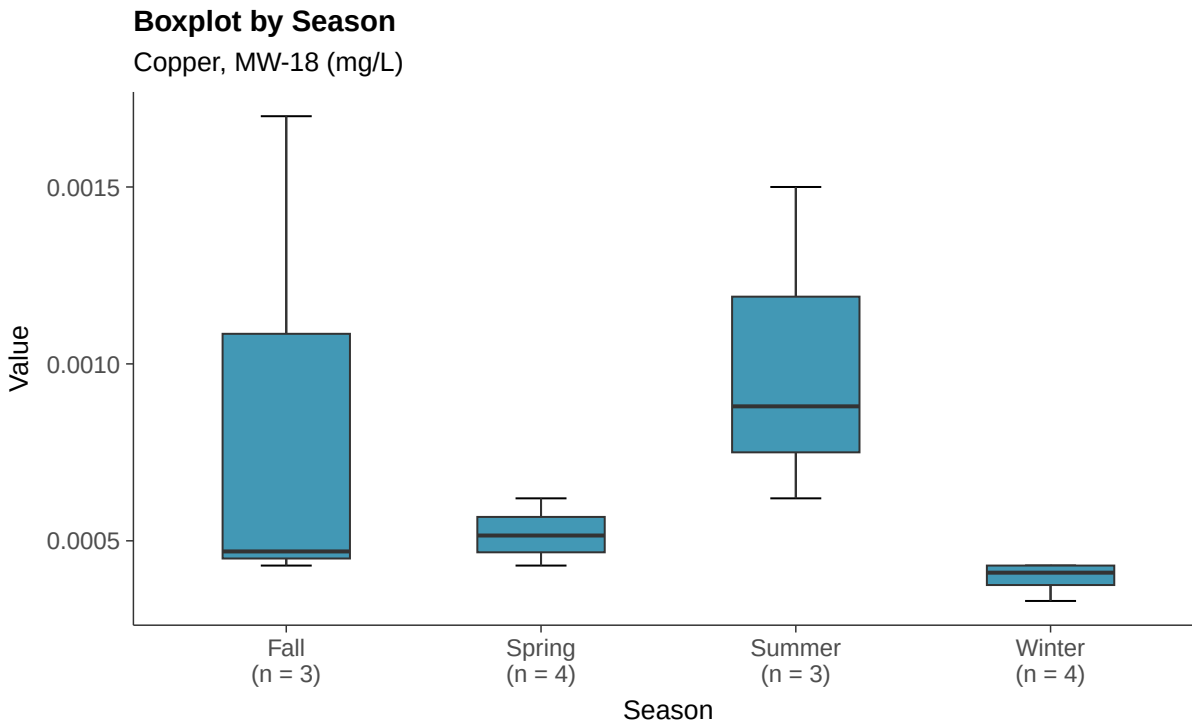
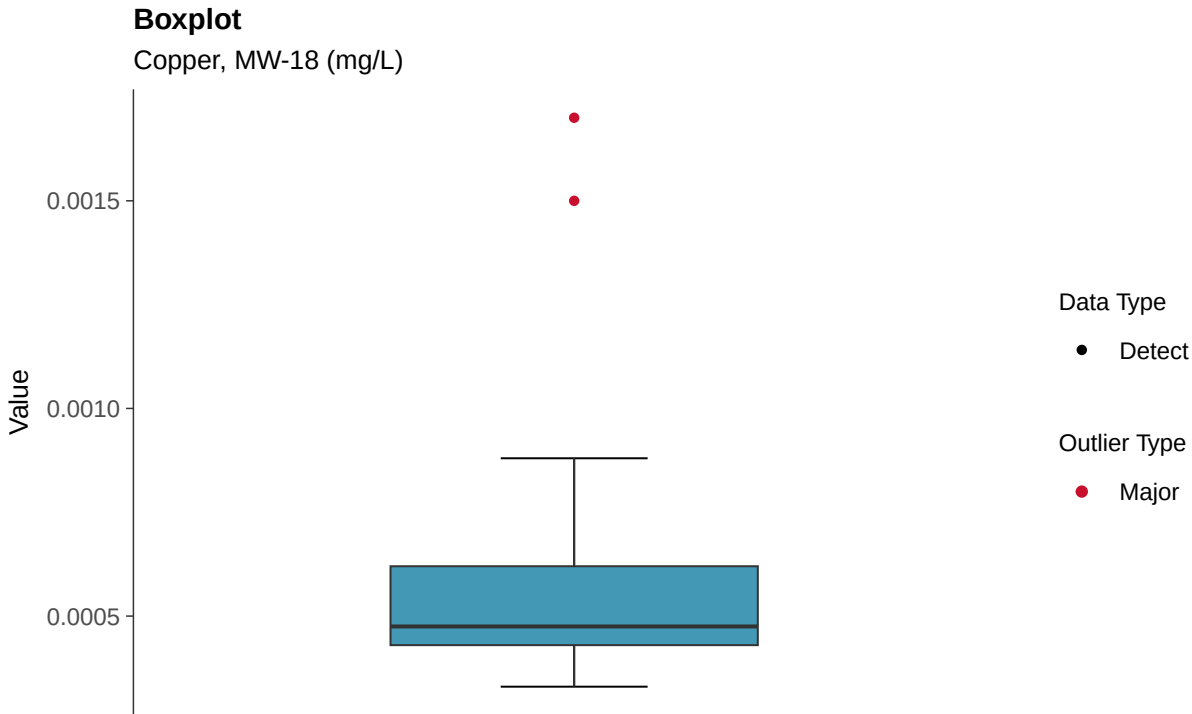


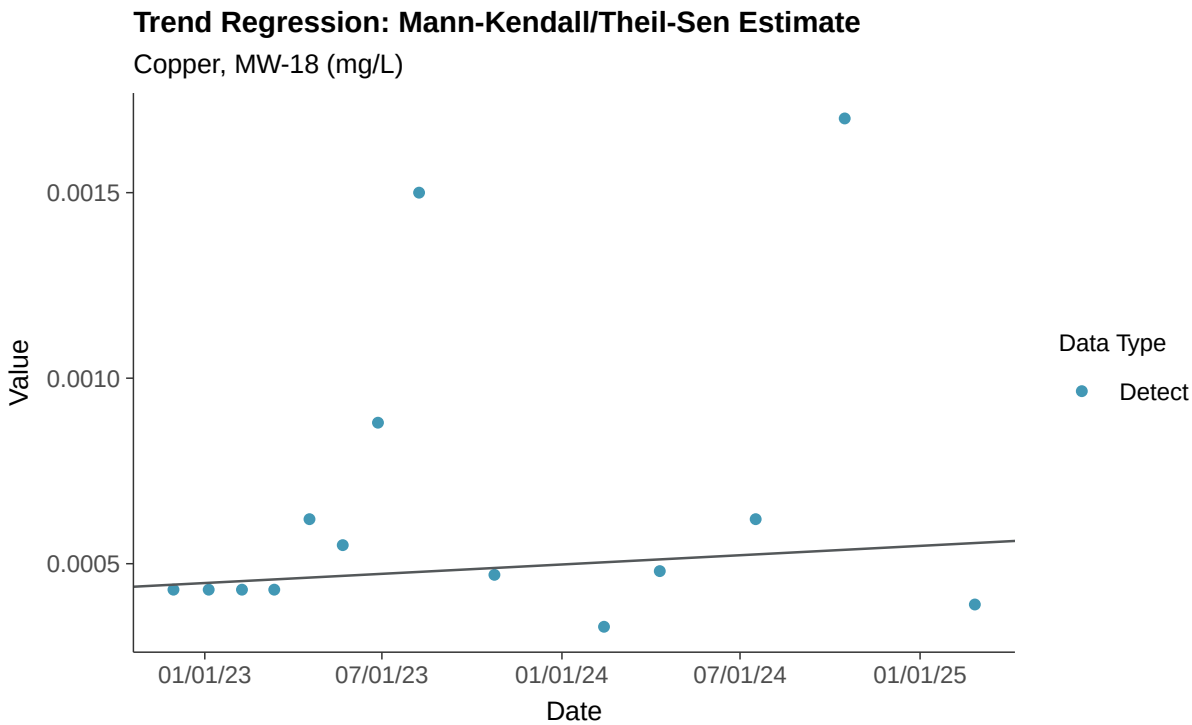
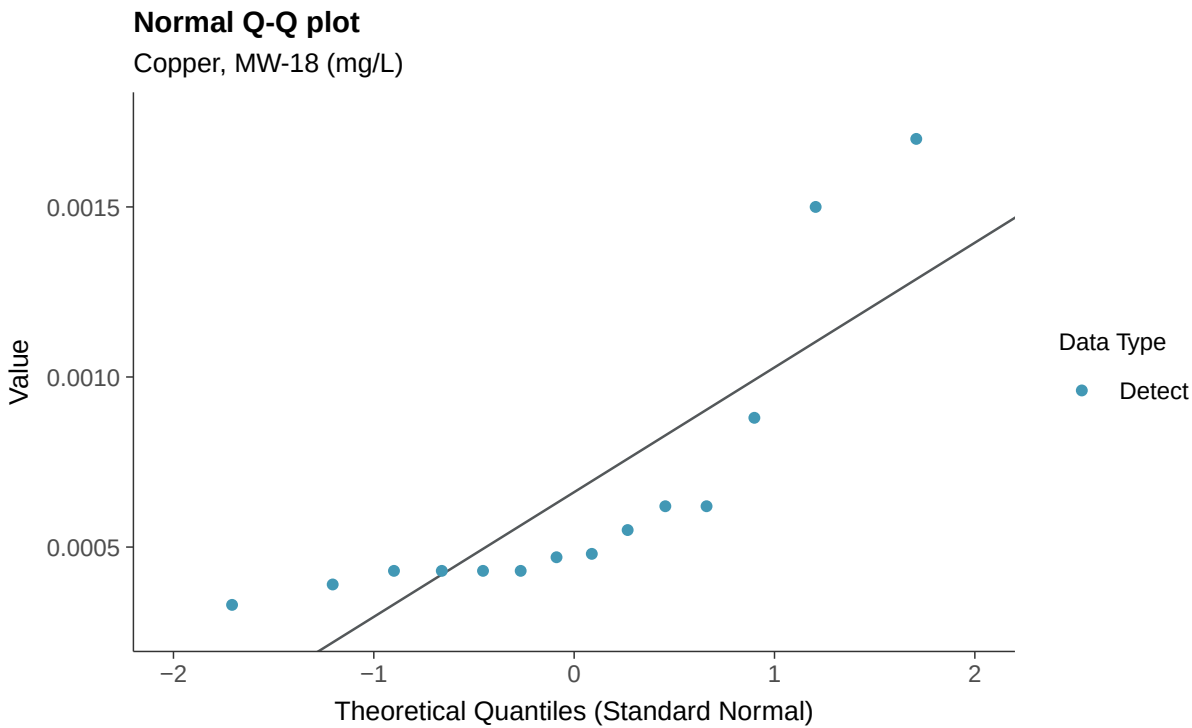


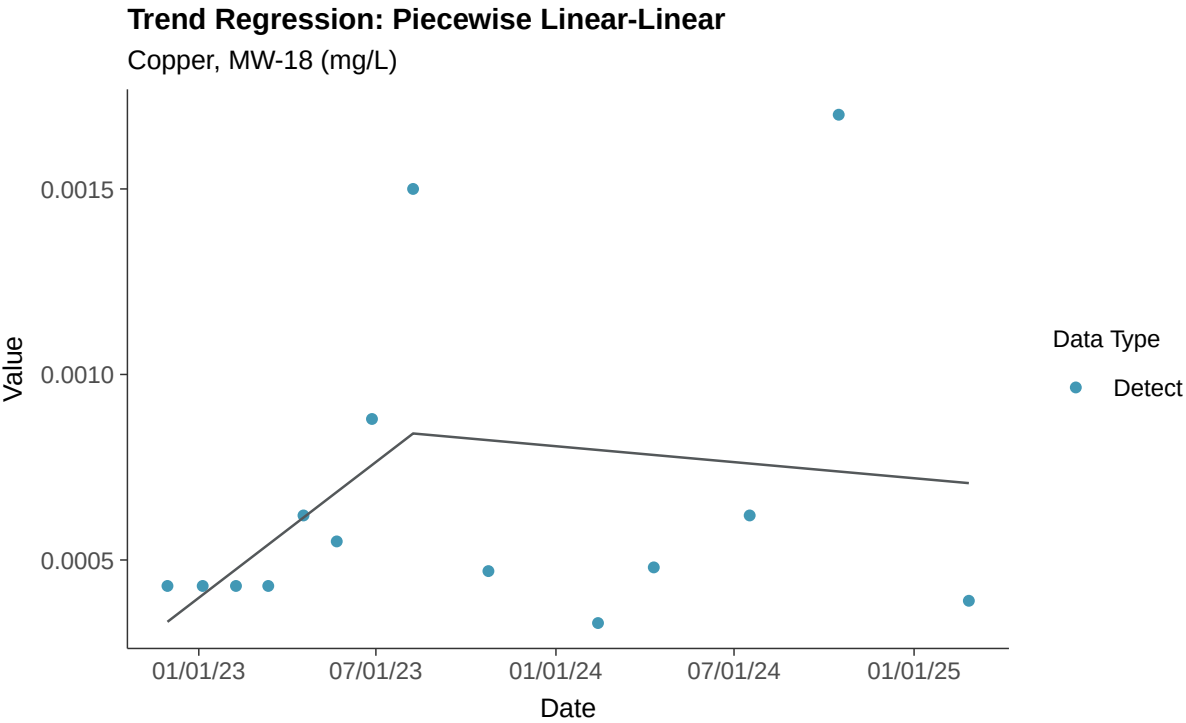
Part 115: Copper, MW-18

ID: 28_1_5_111





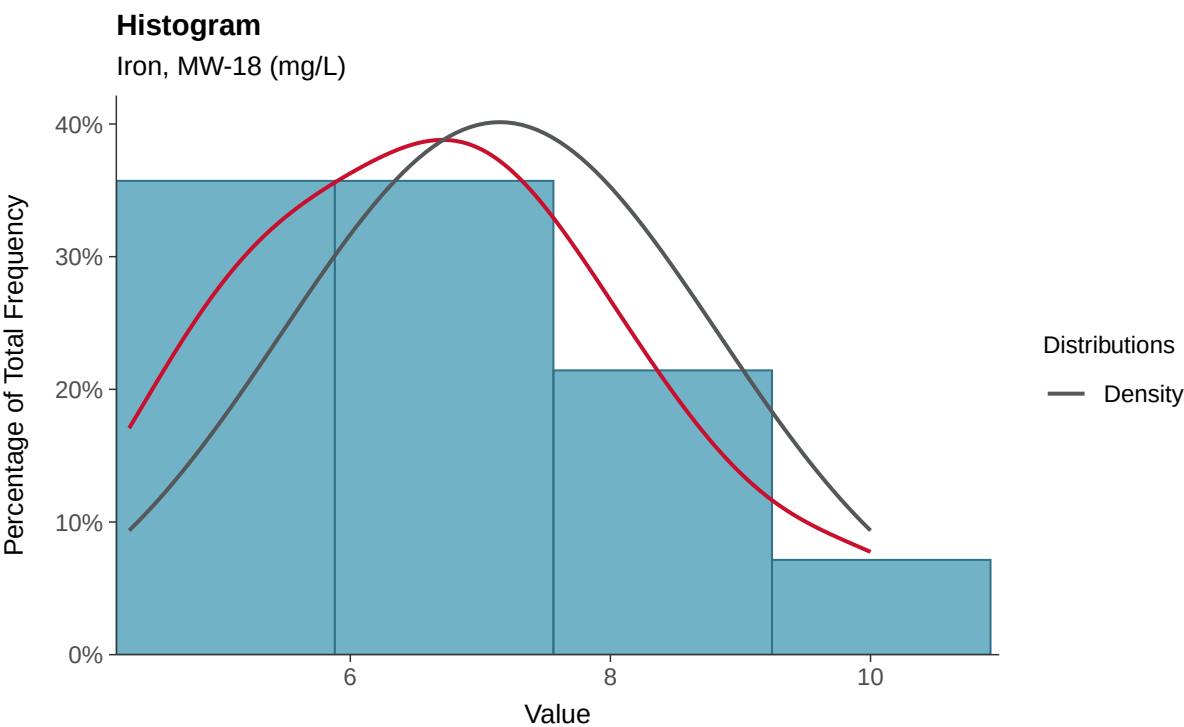
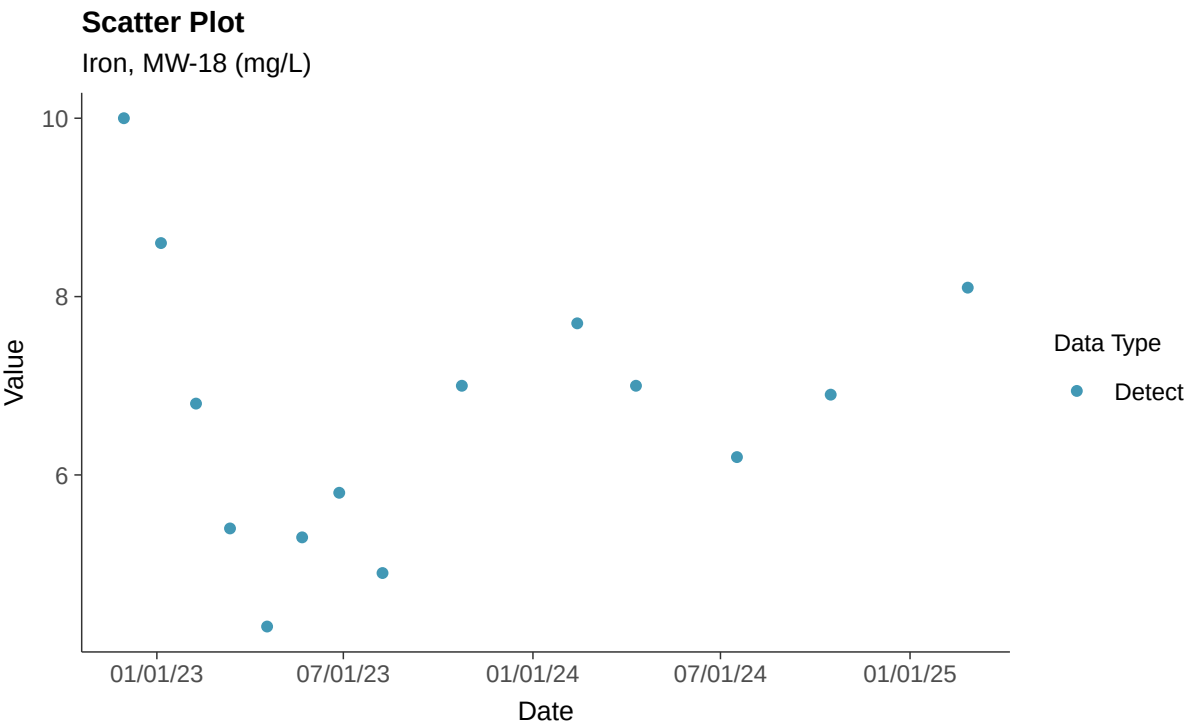


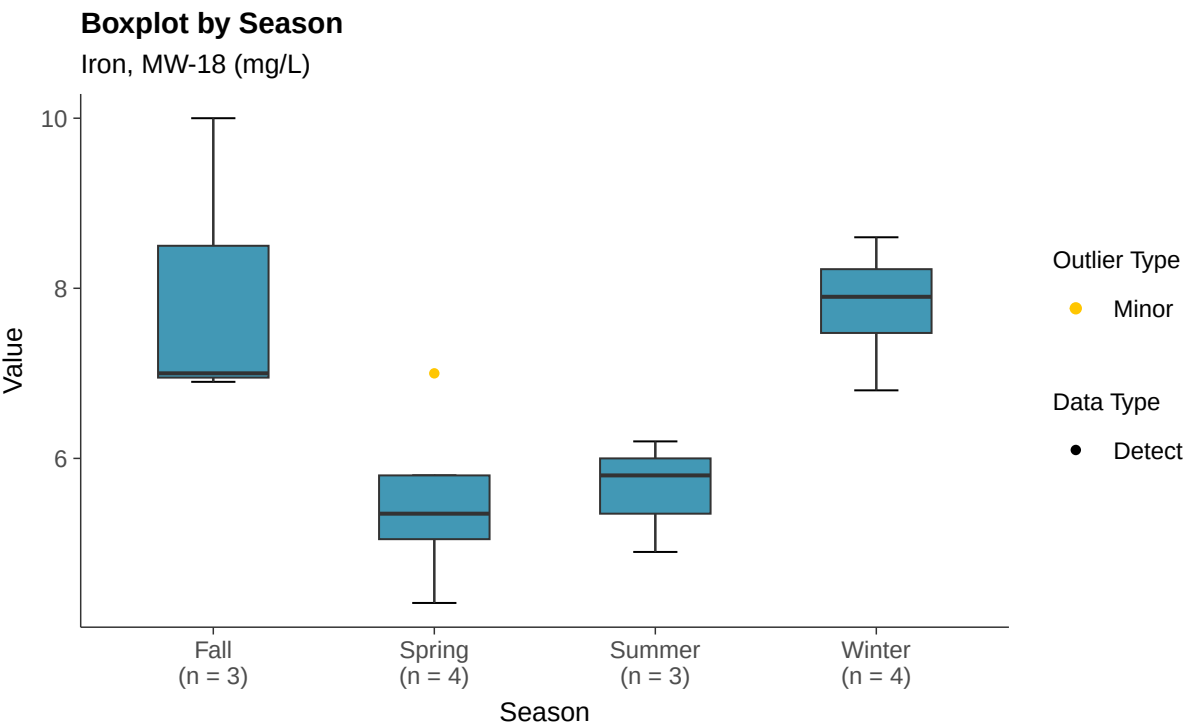
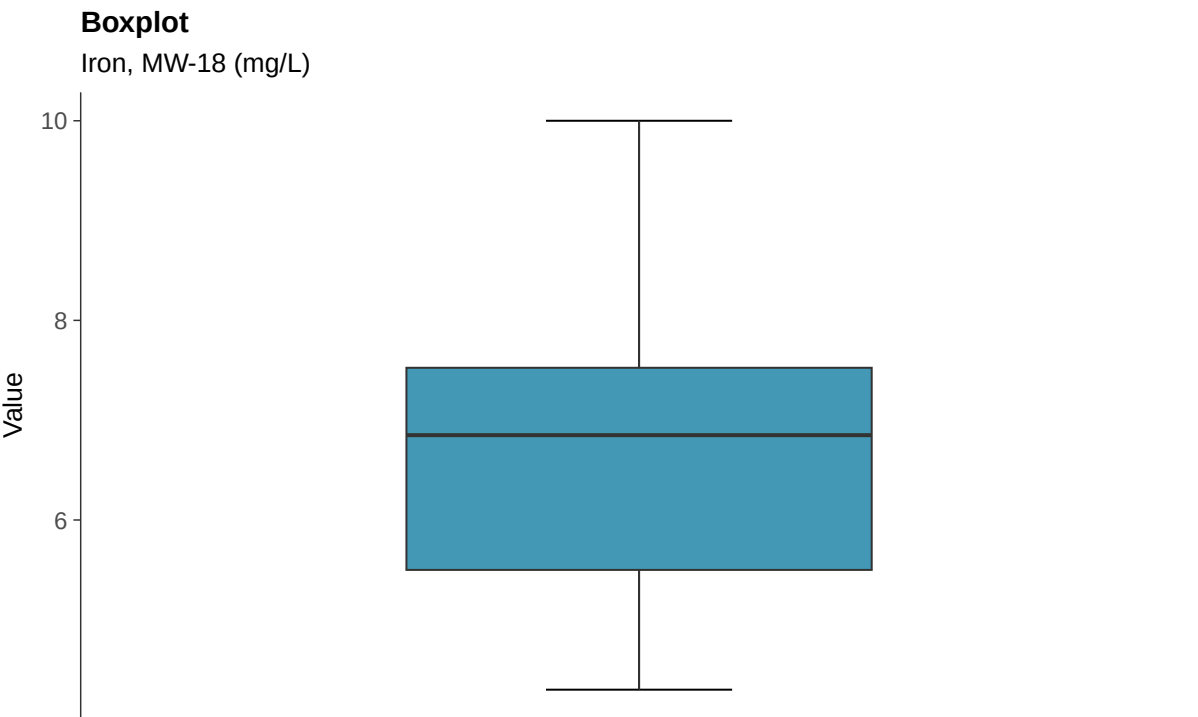


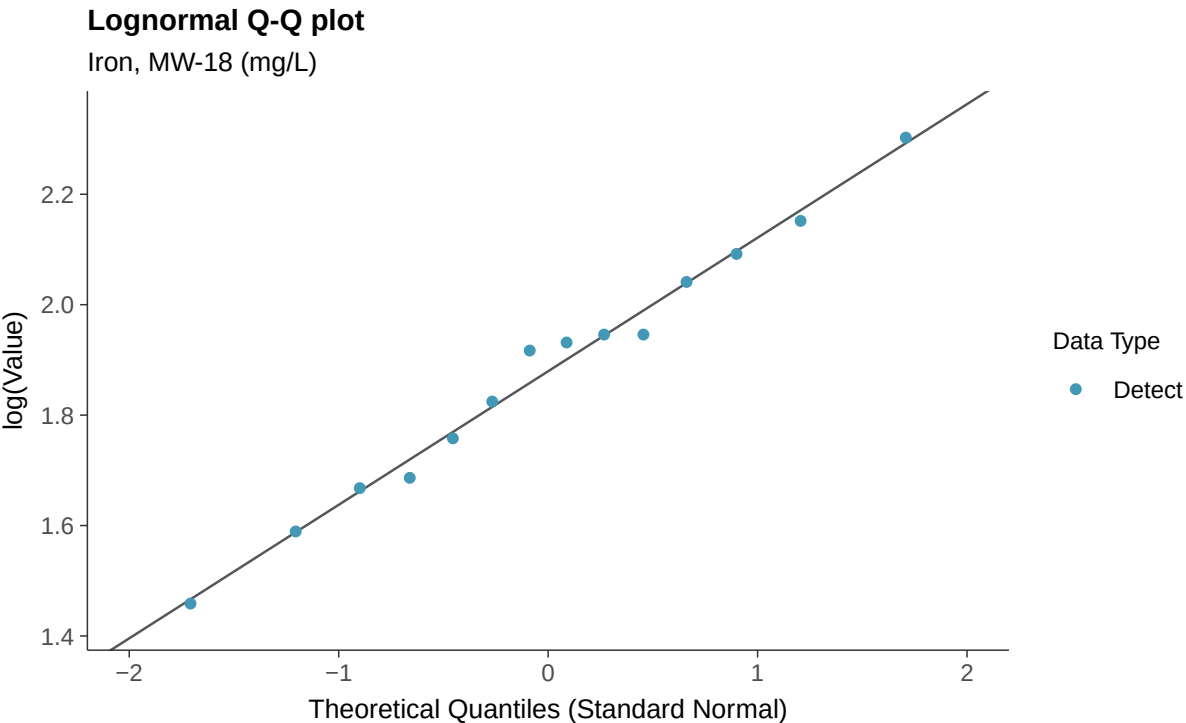
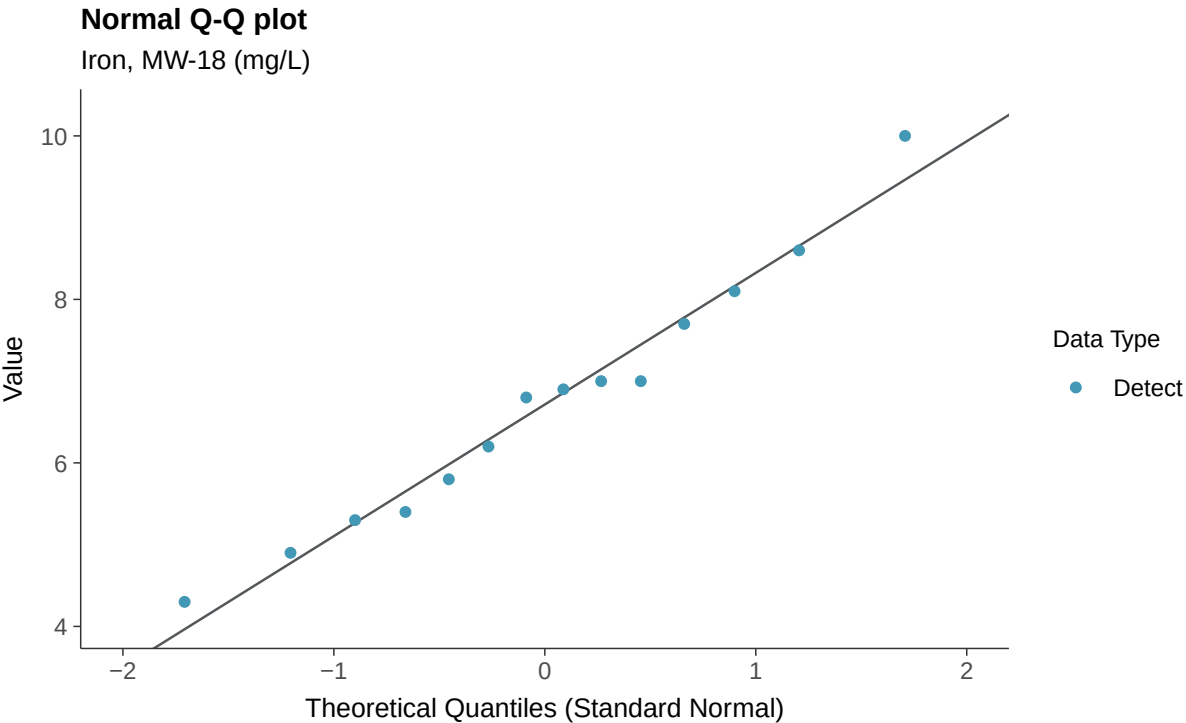


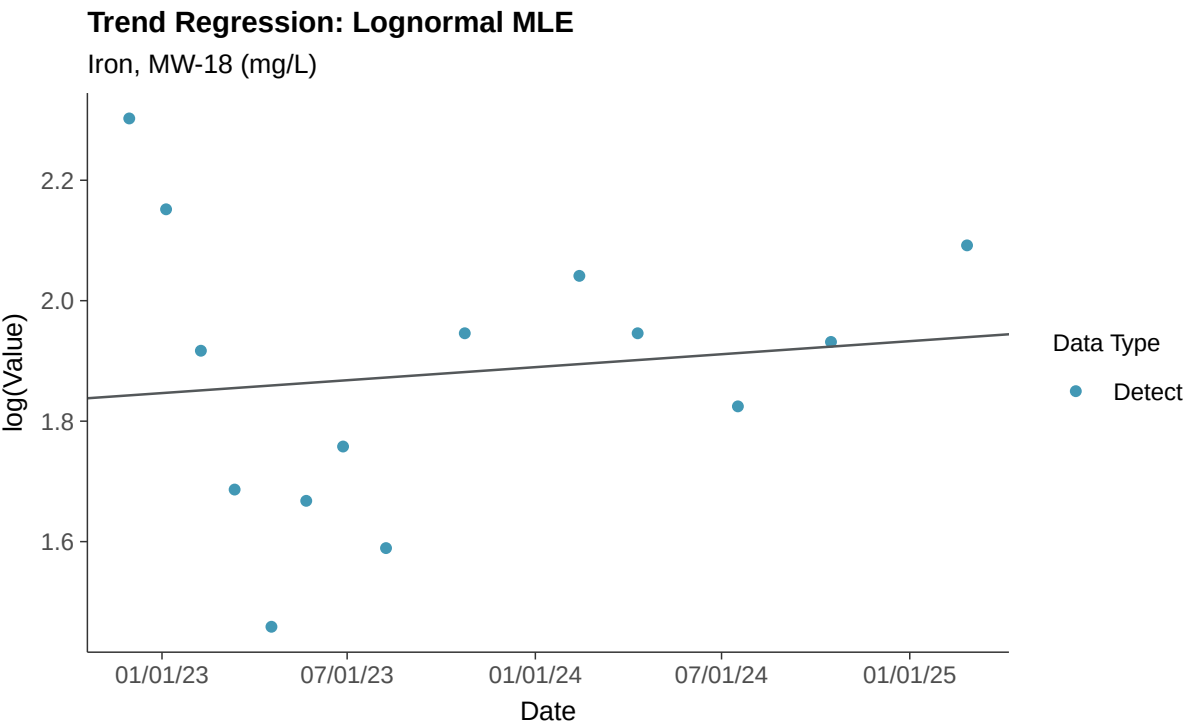
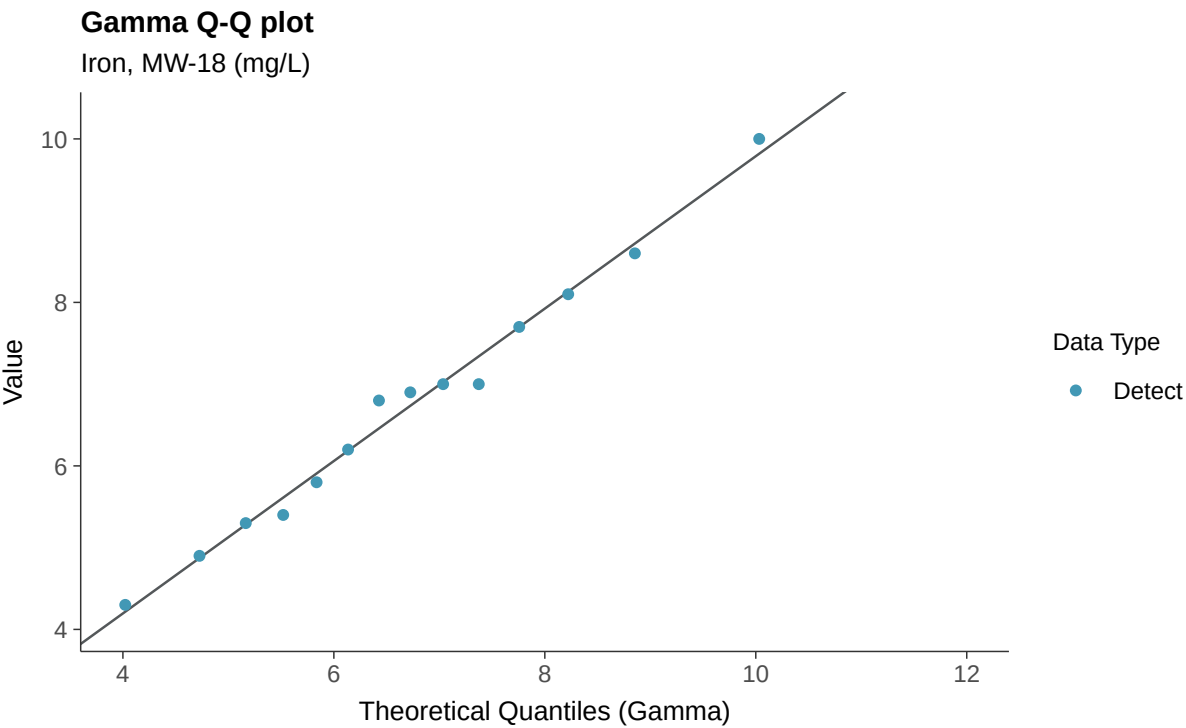
Part 115: Iron, MW-18

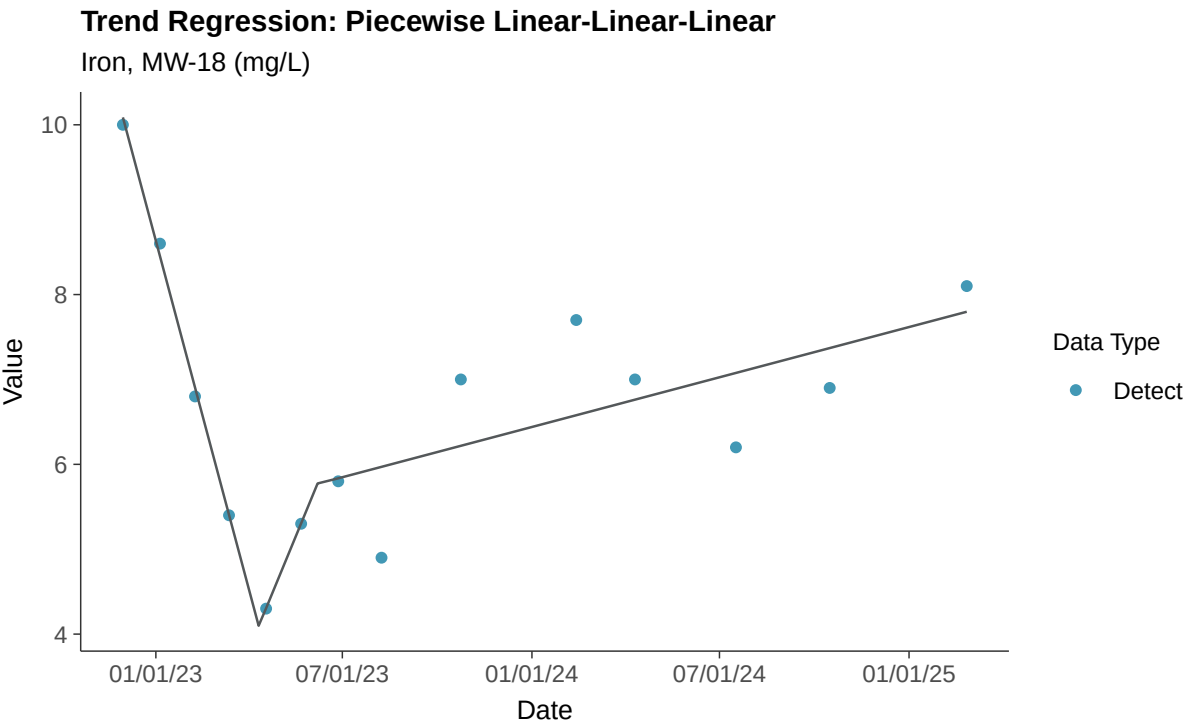
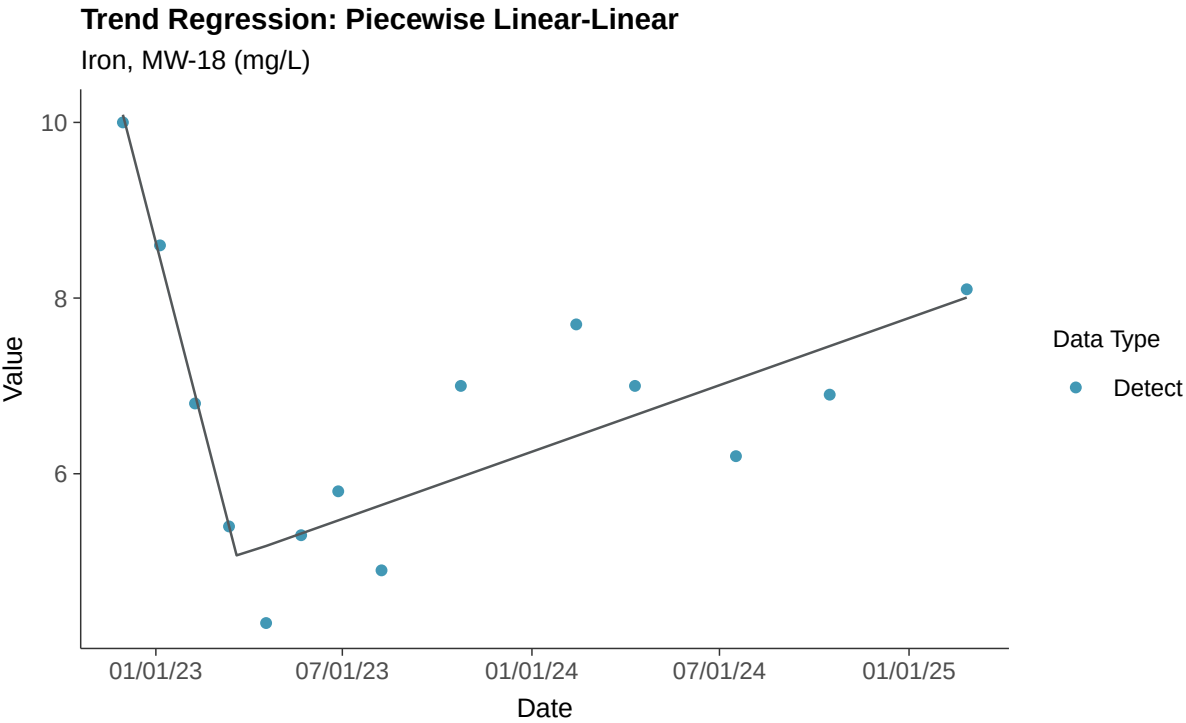
ID: 28_1_5_114







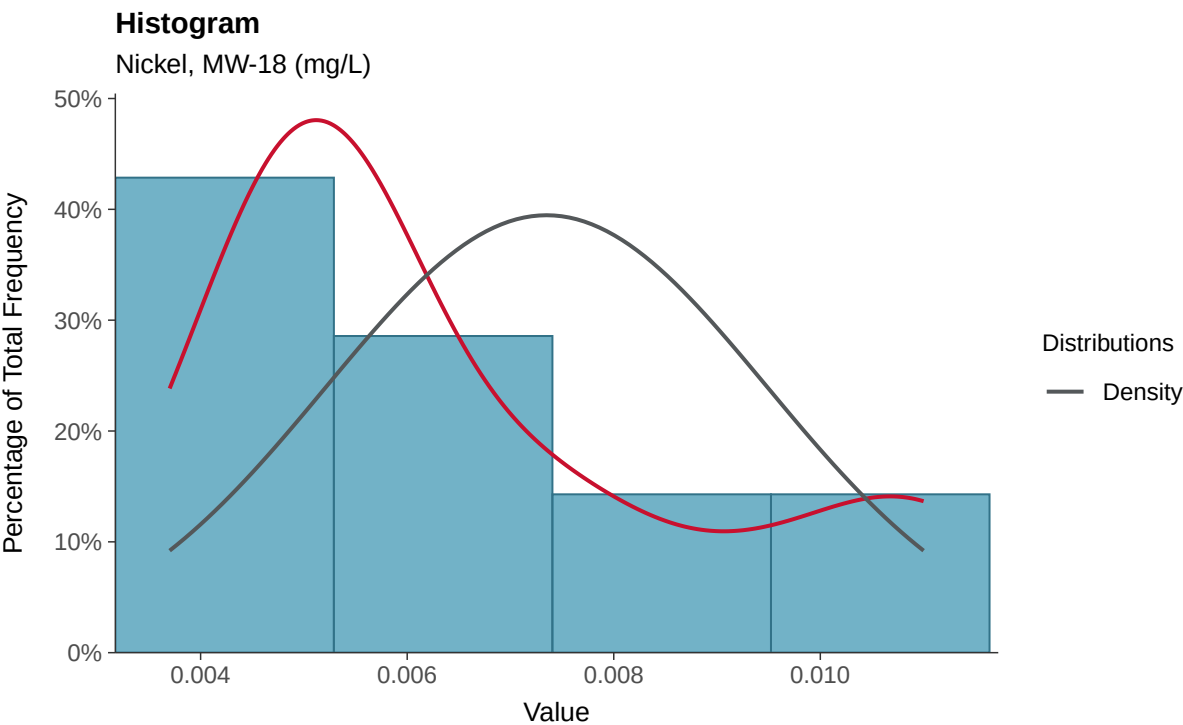
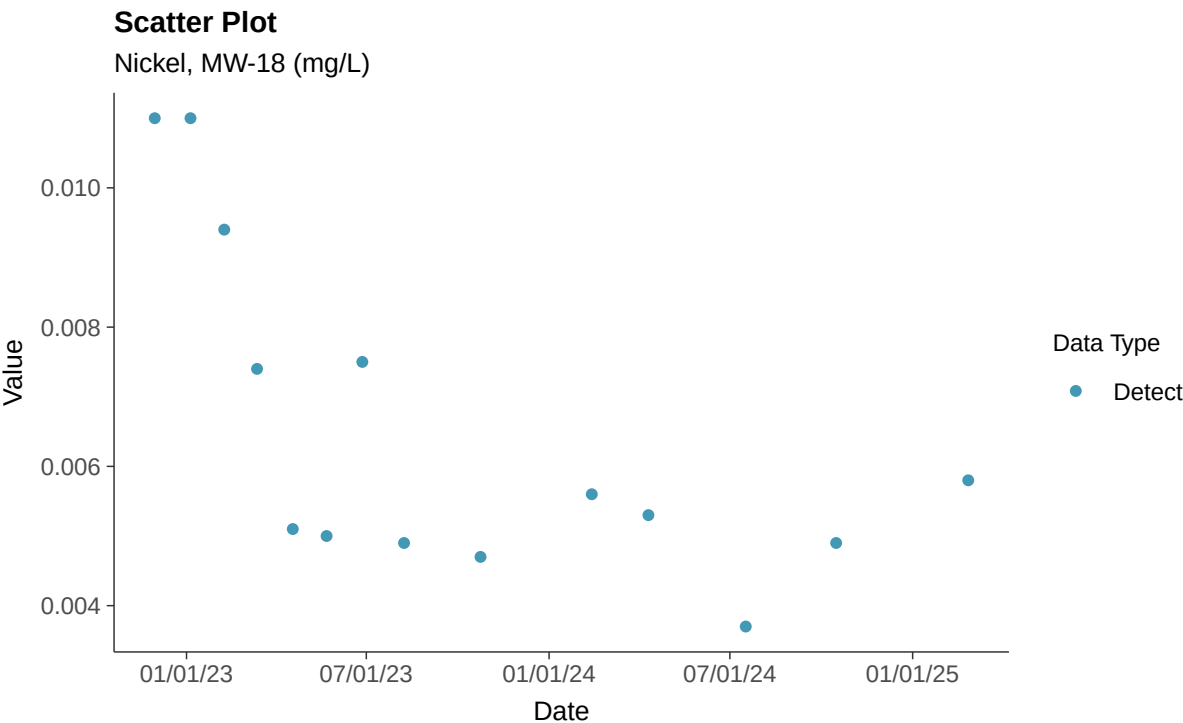


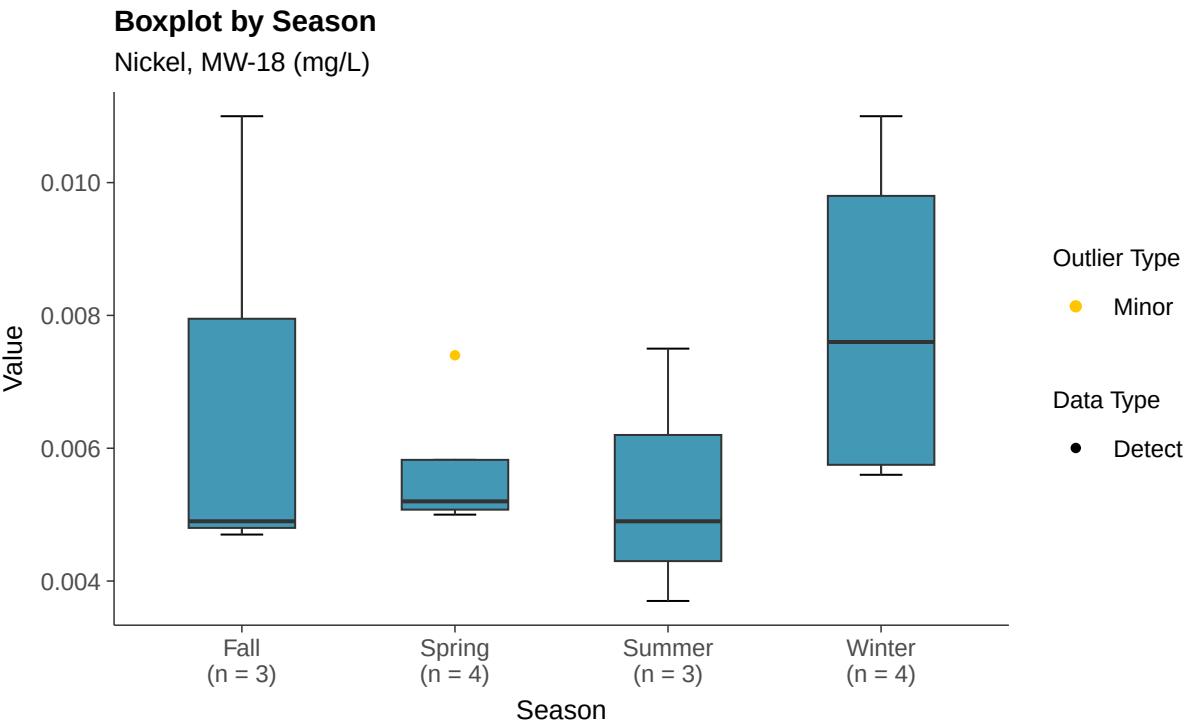
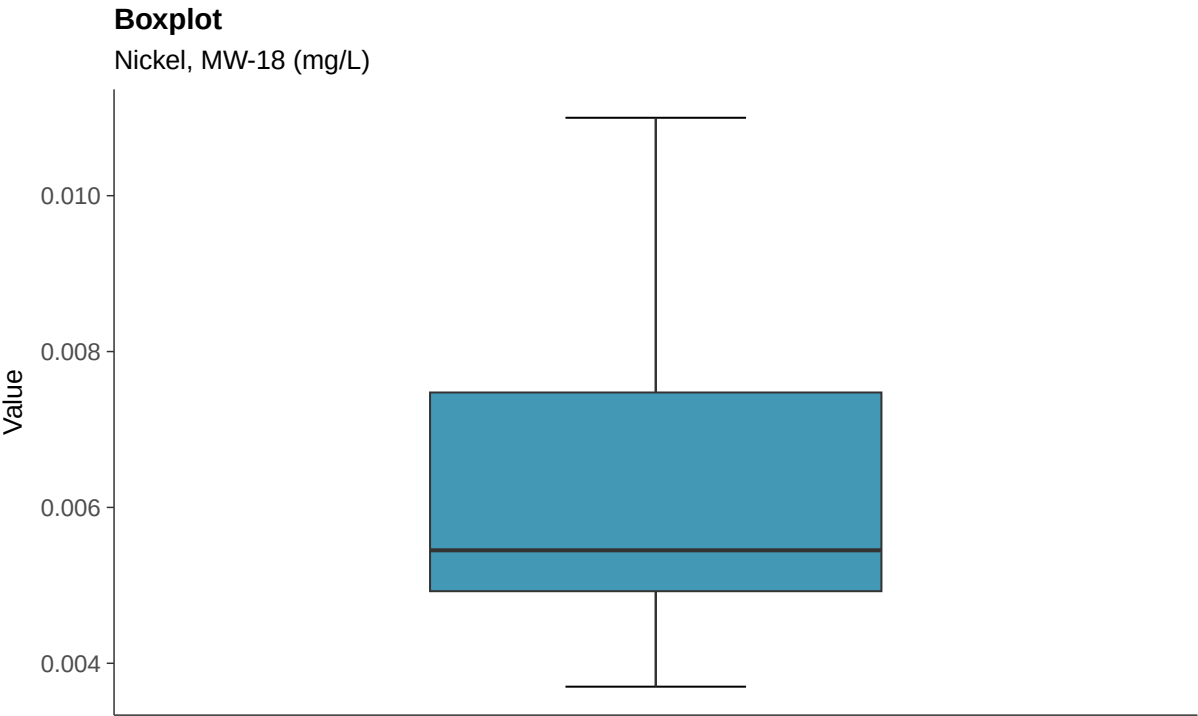


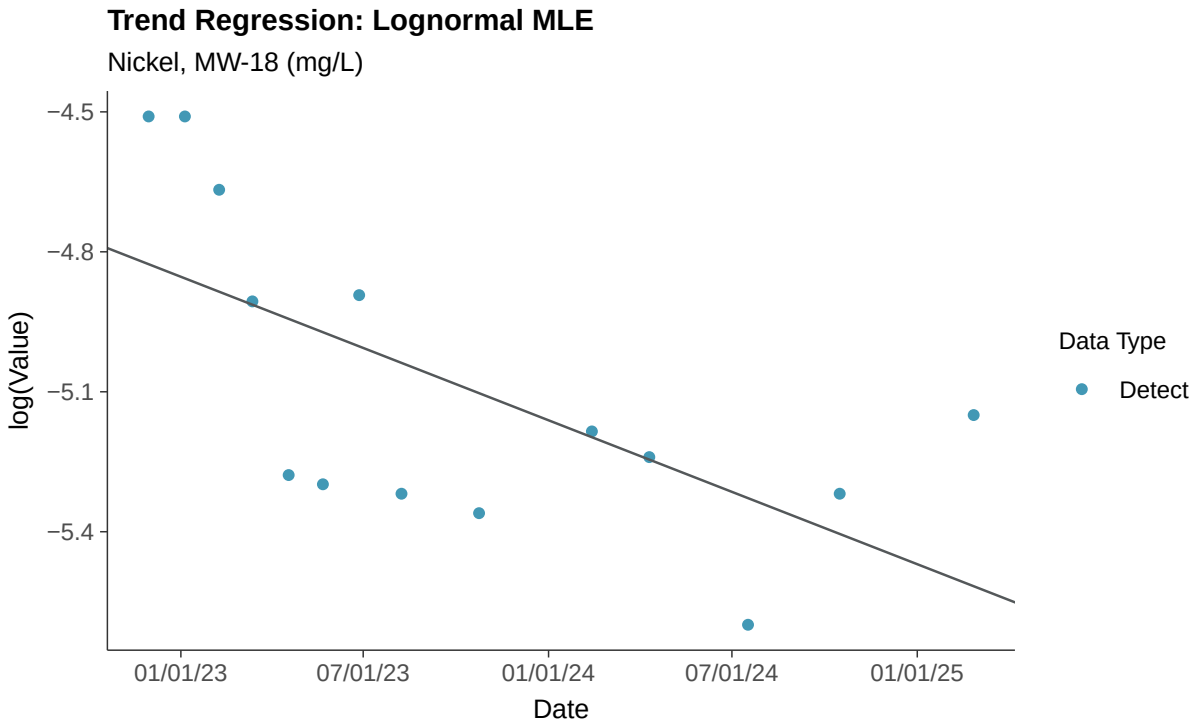
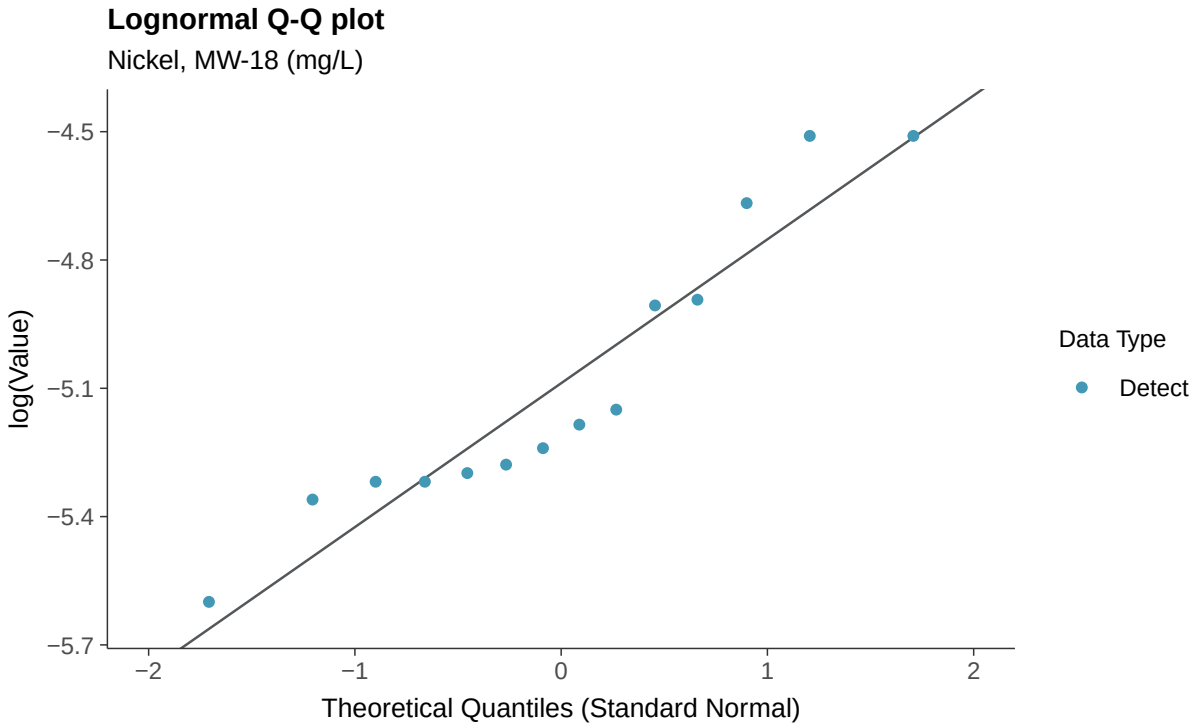


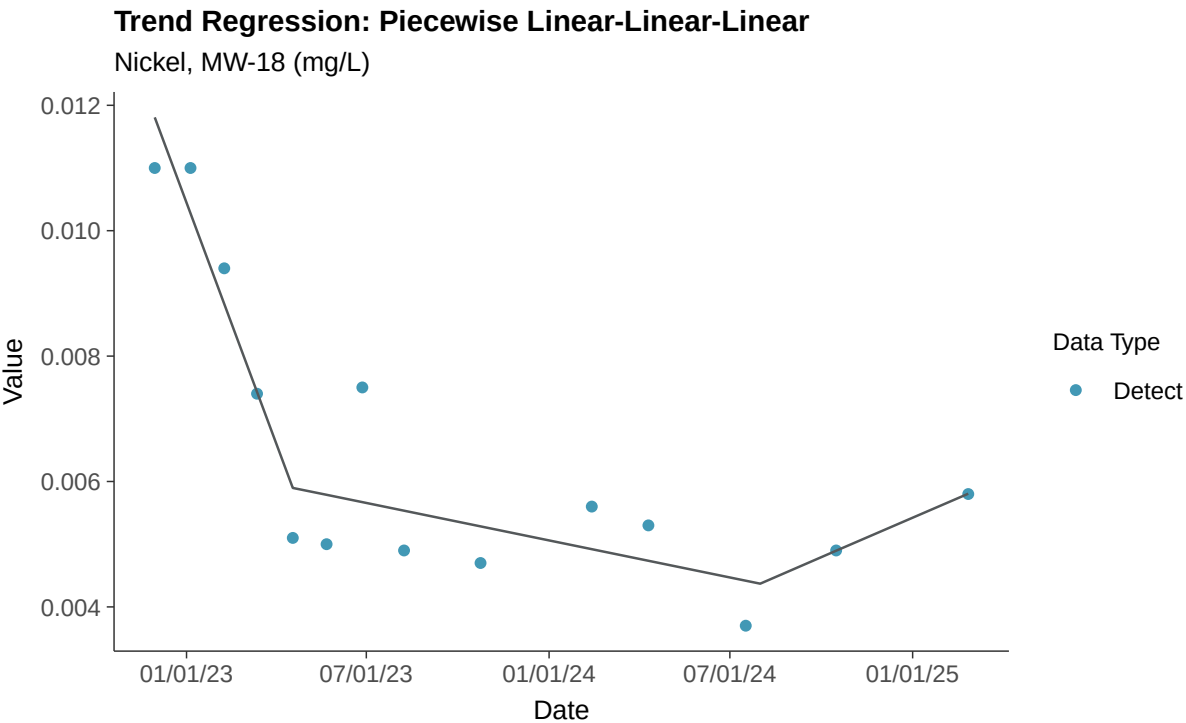
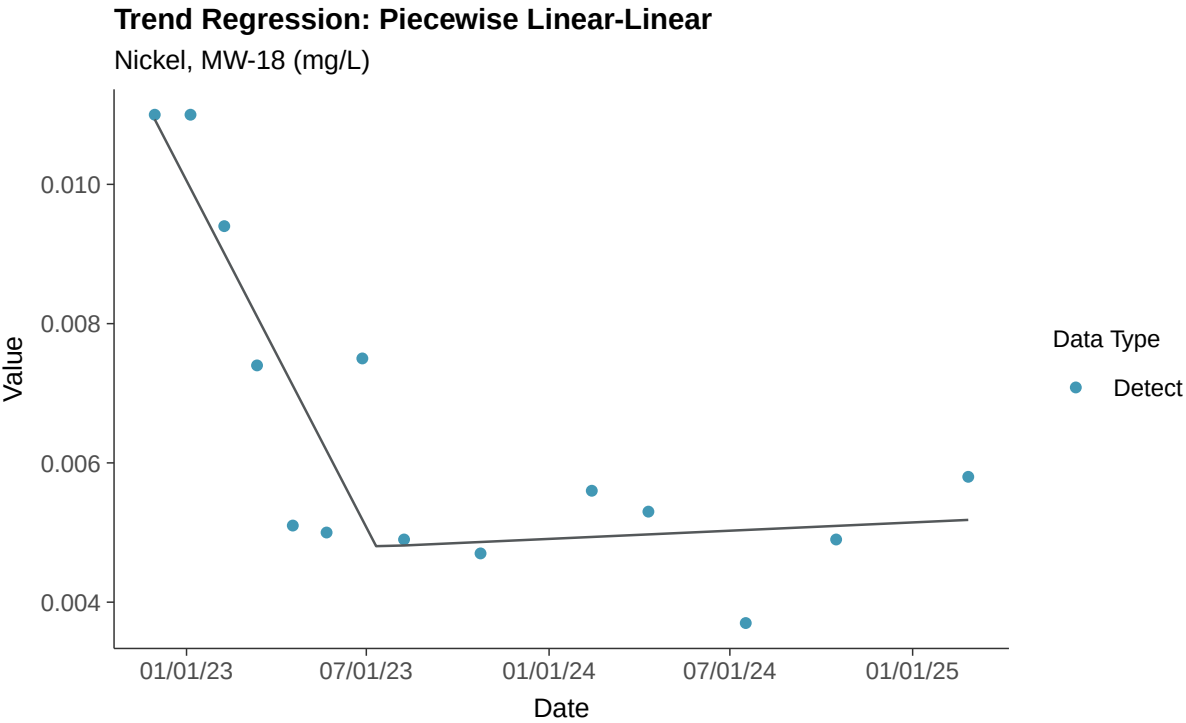
Part 115: Nickel, MW-18

ID: 28_1_5_119





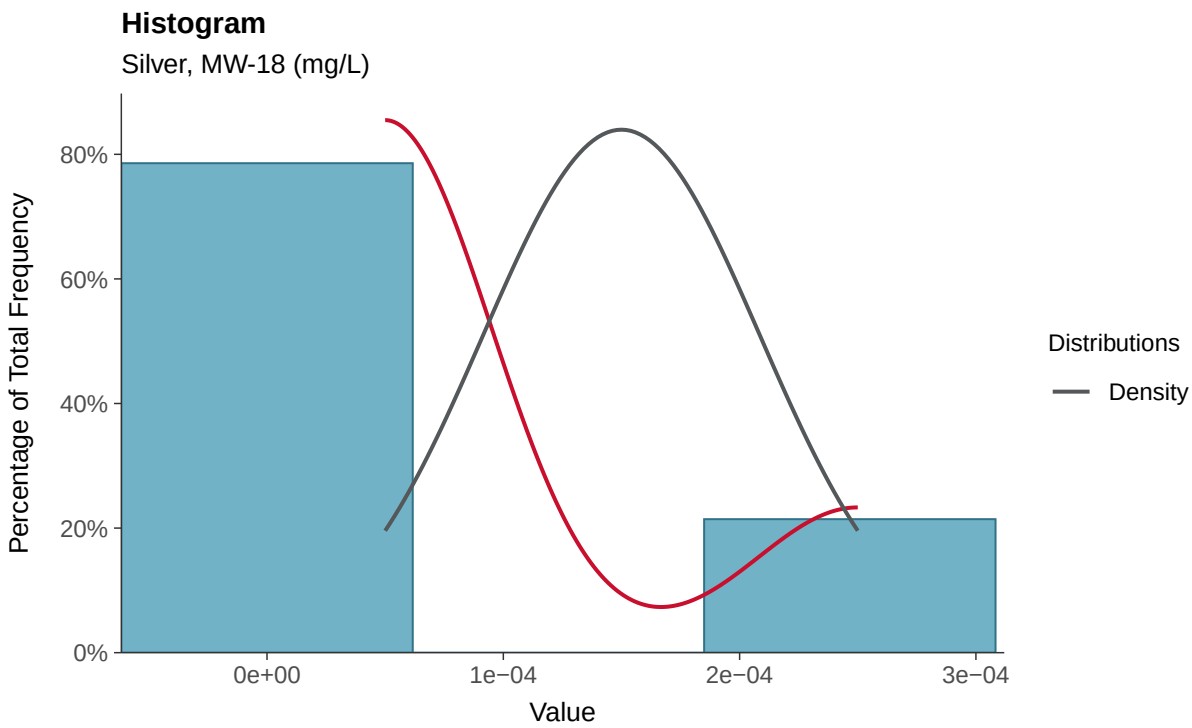
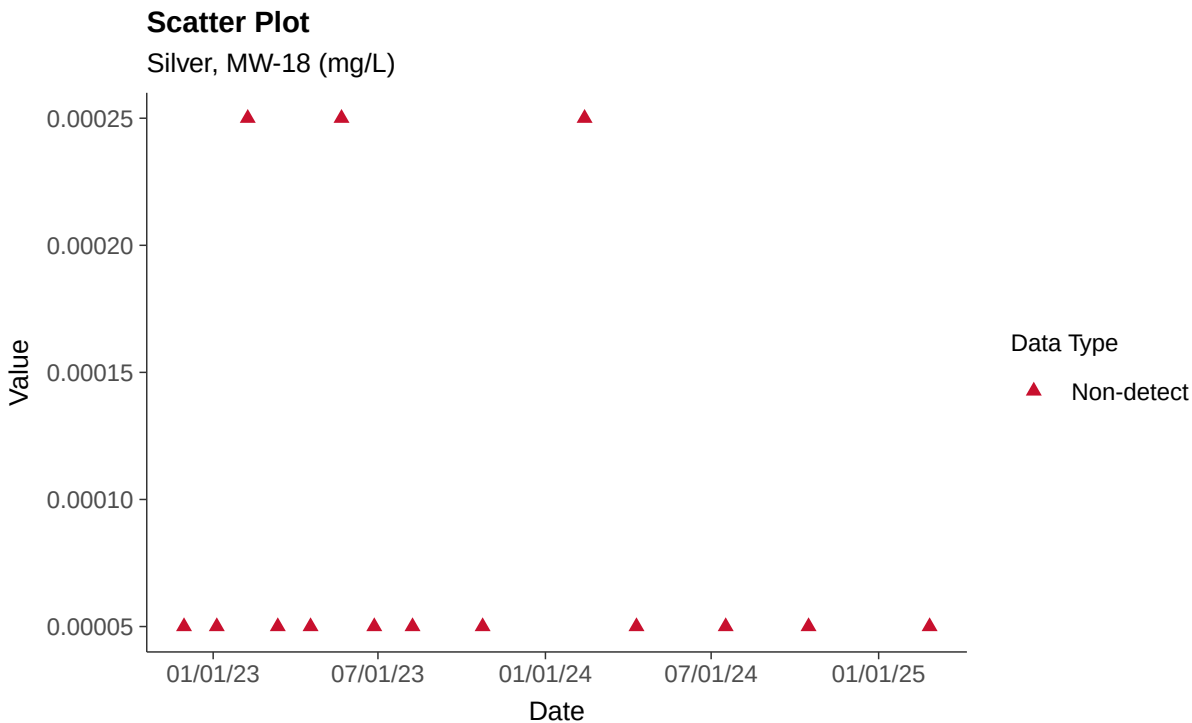


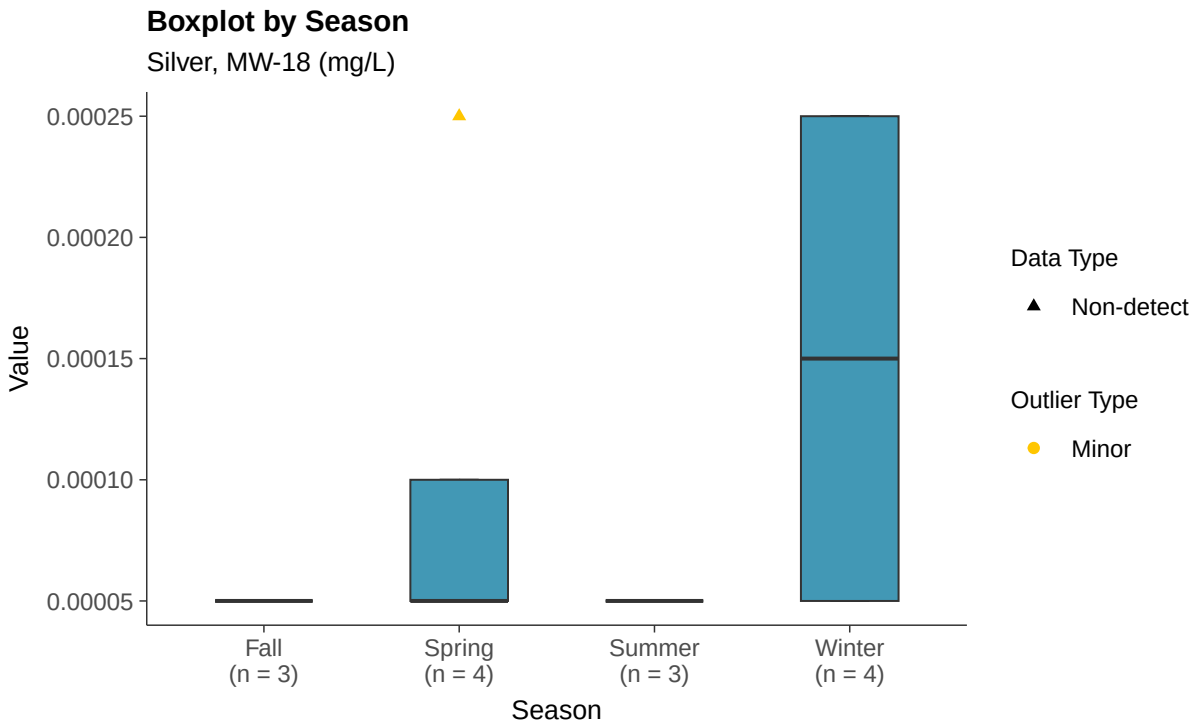
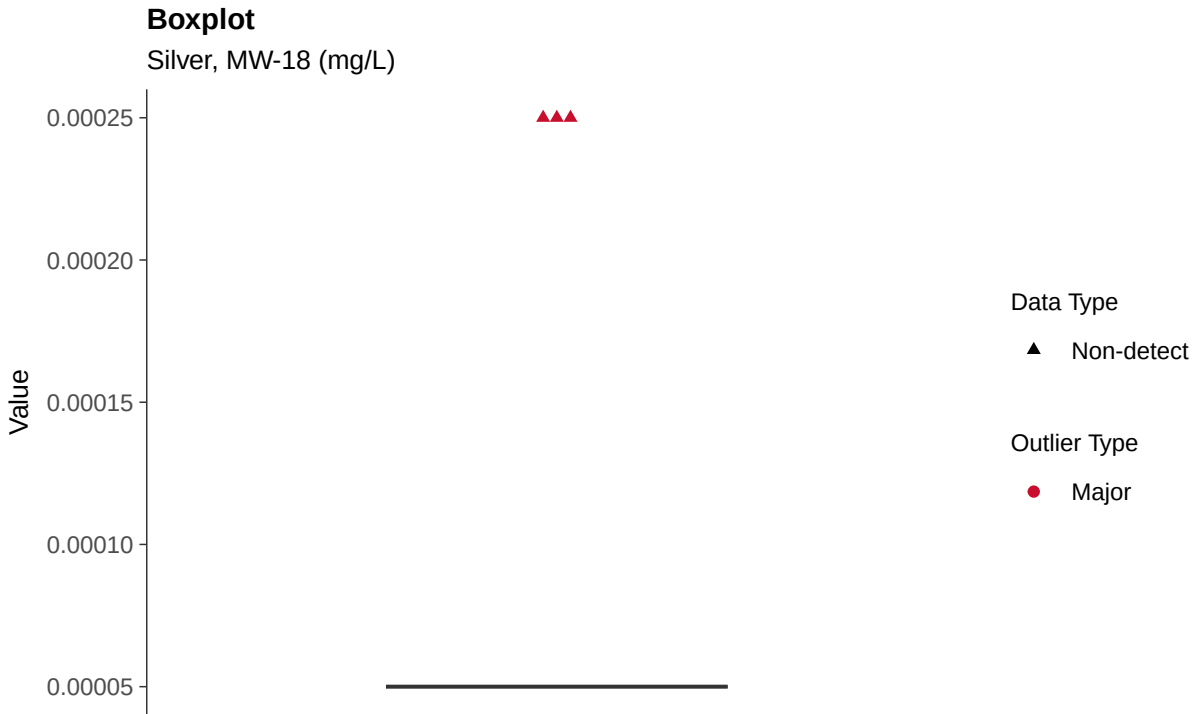




Part 115: Silver, MW-18

ID: 28_1_5_123

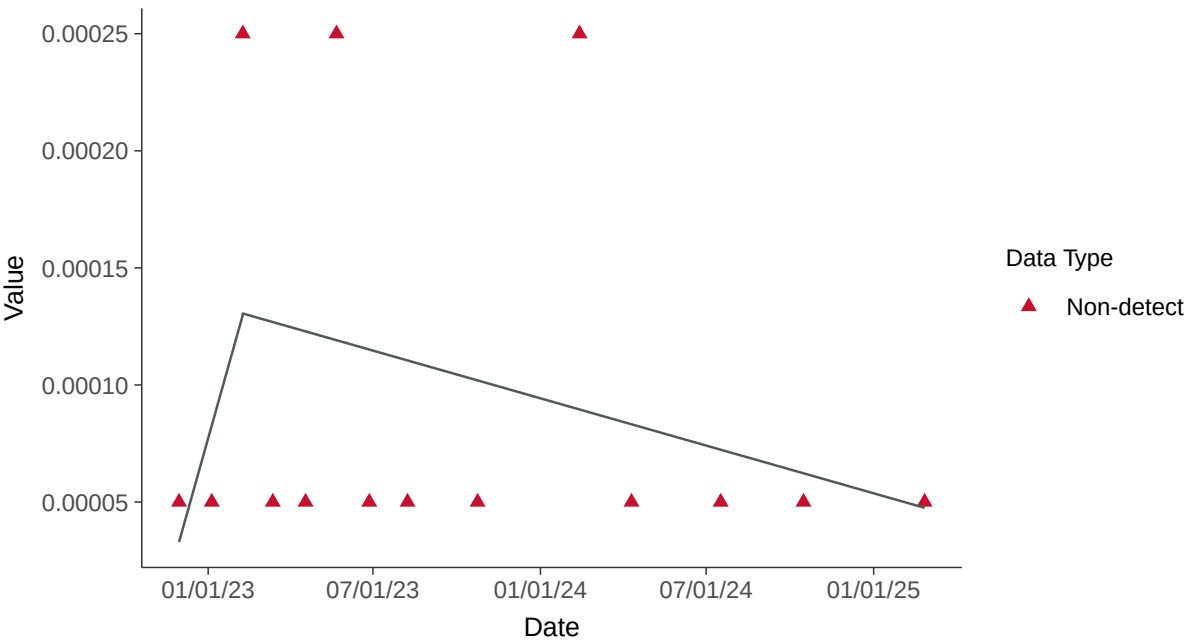






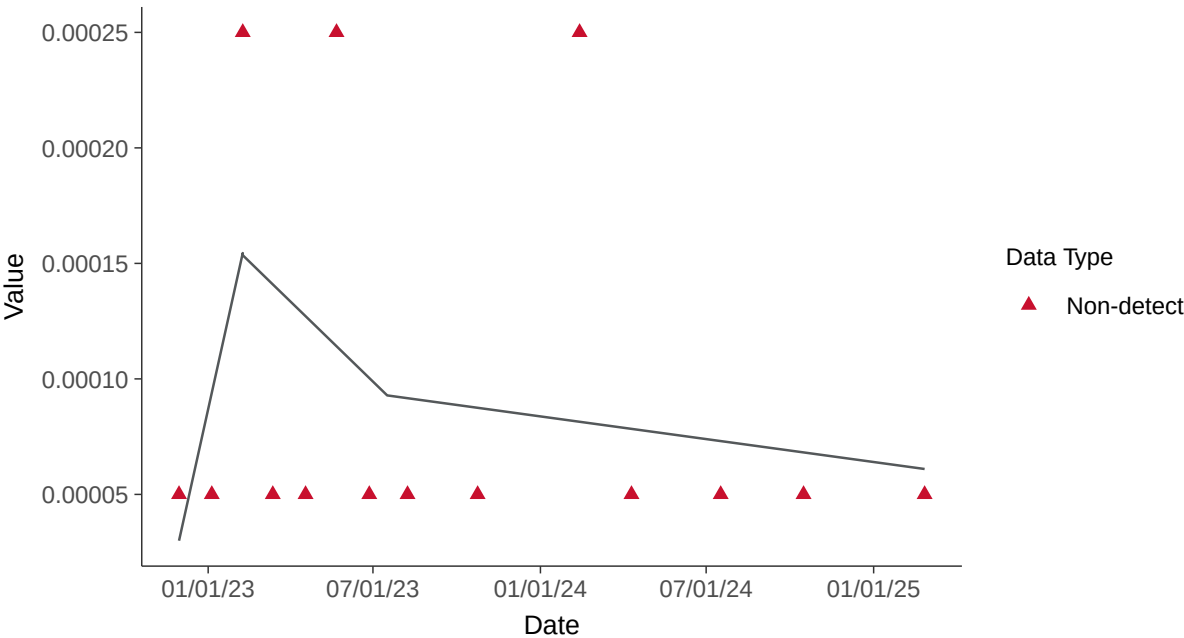
Trend Regression: Piecewise Linear-Linear

Silver, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

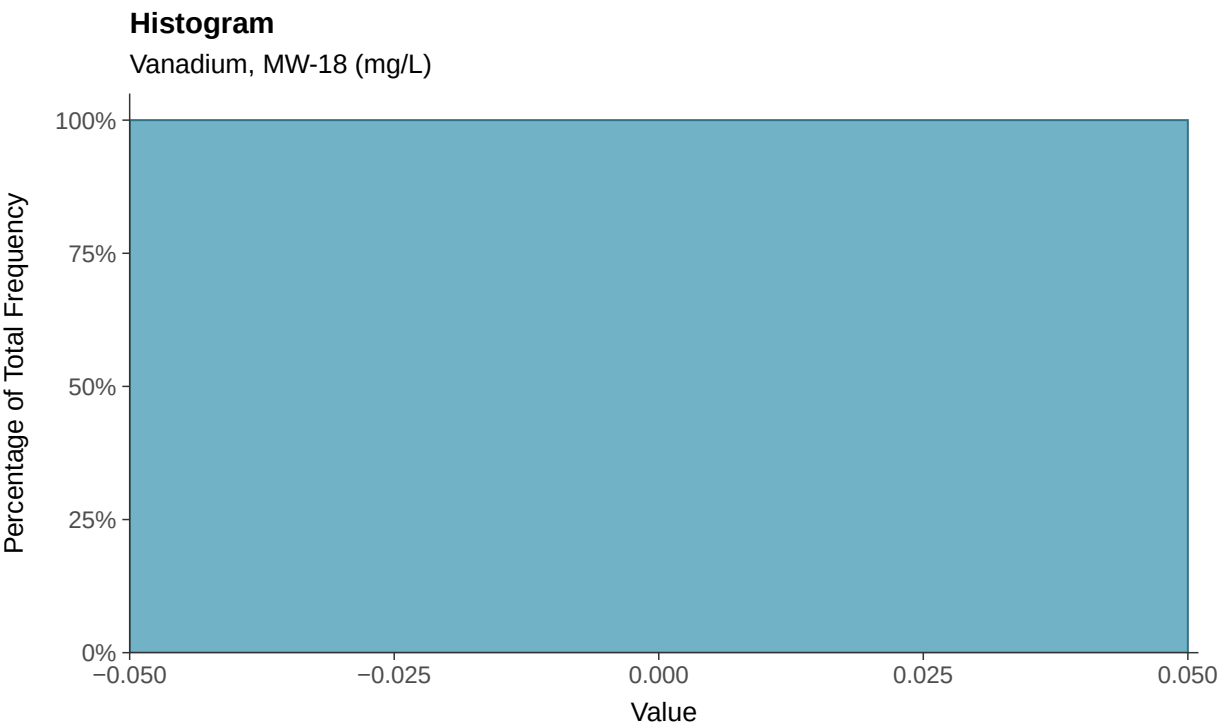
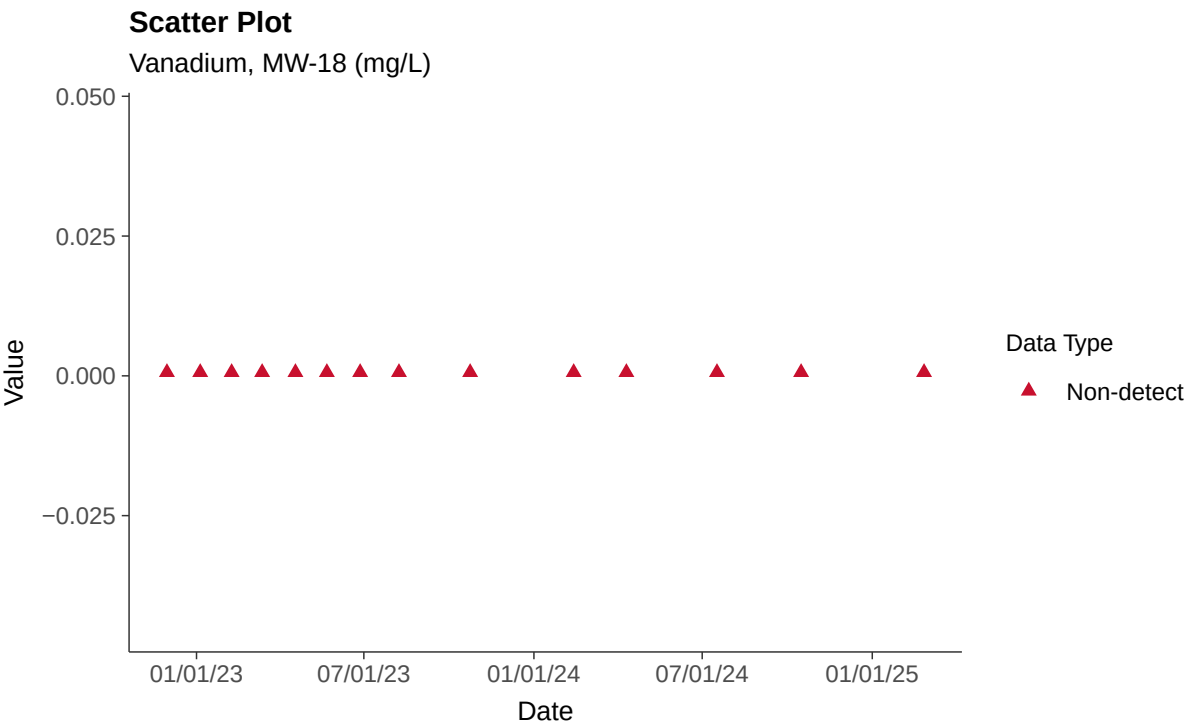
Silver, MW-18 (mg/L)

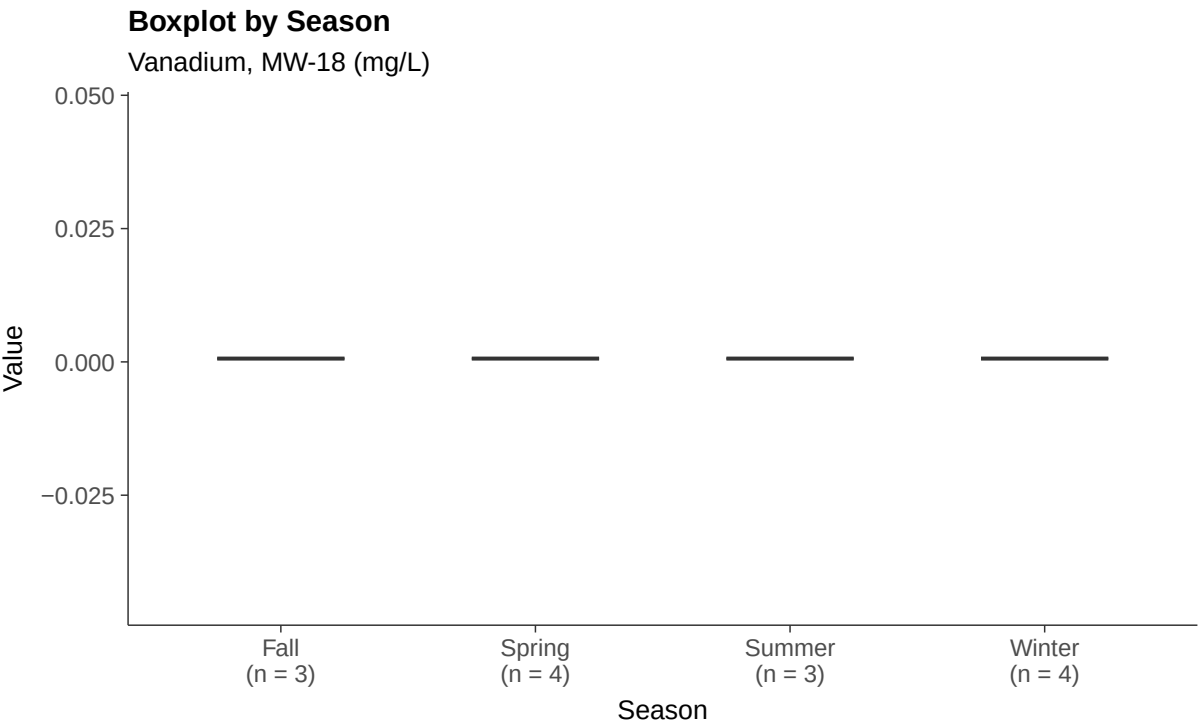
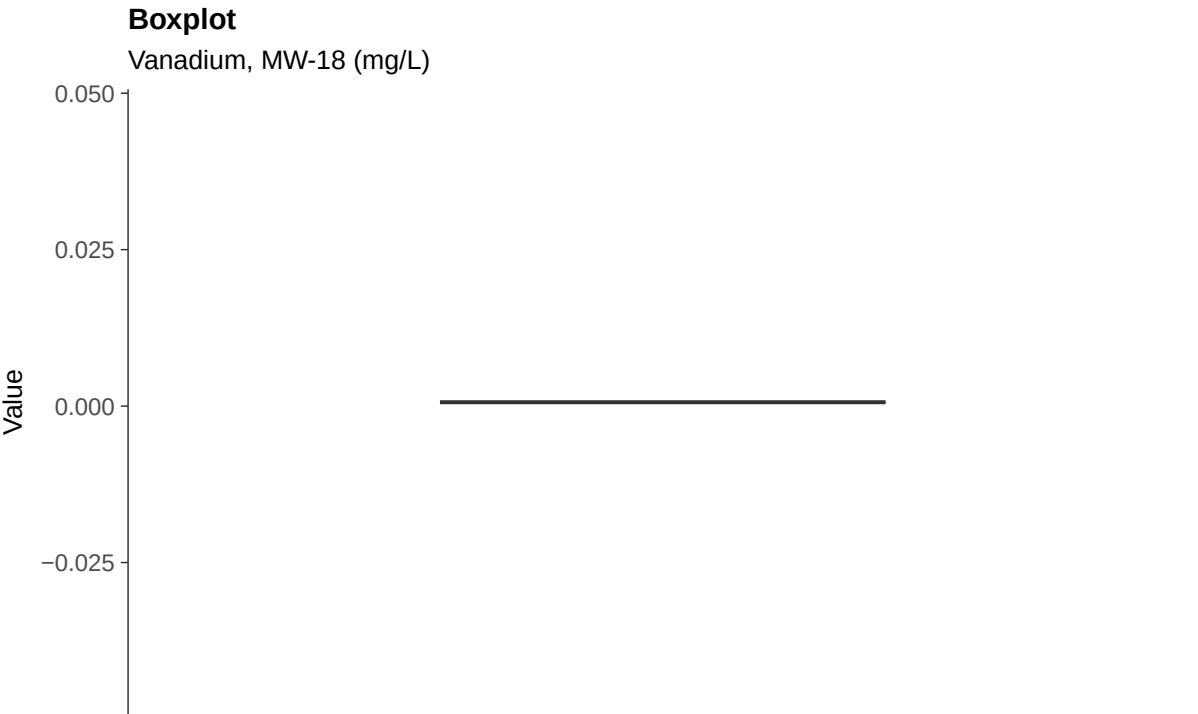




Part 115: Vanadium, MW-18

ID: 28_1_5_128

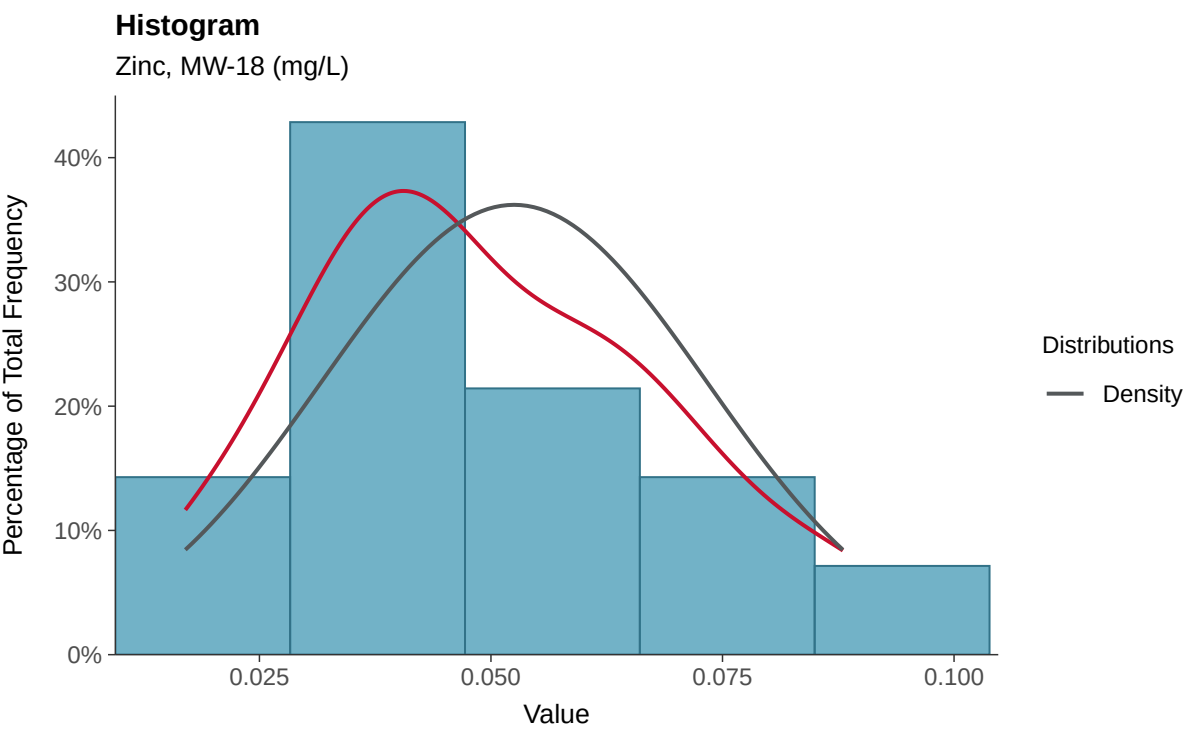
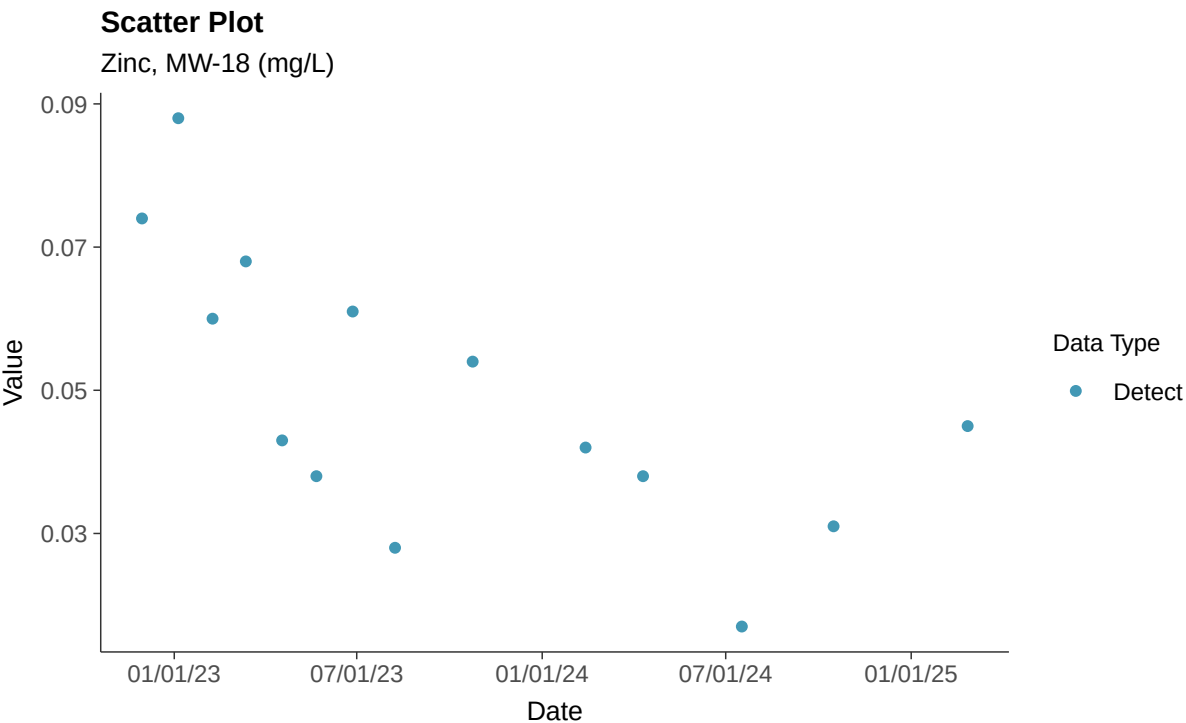


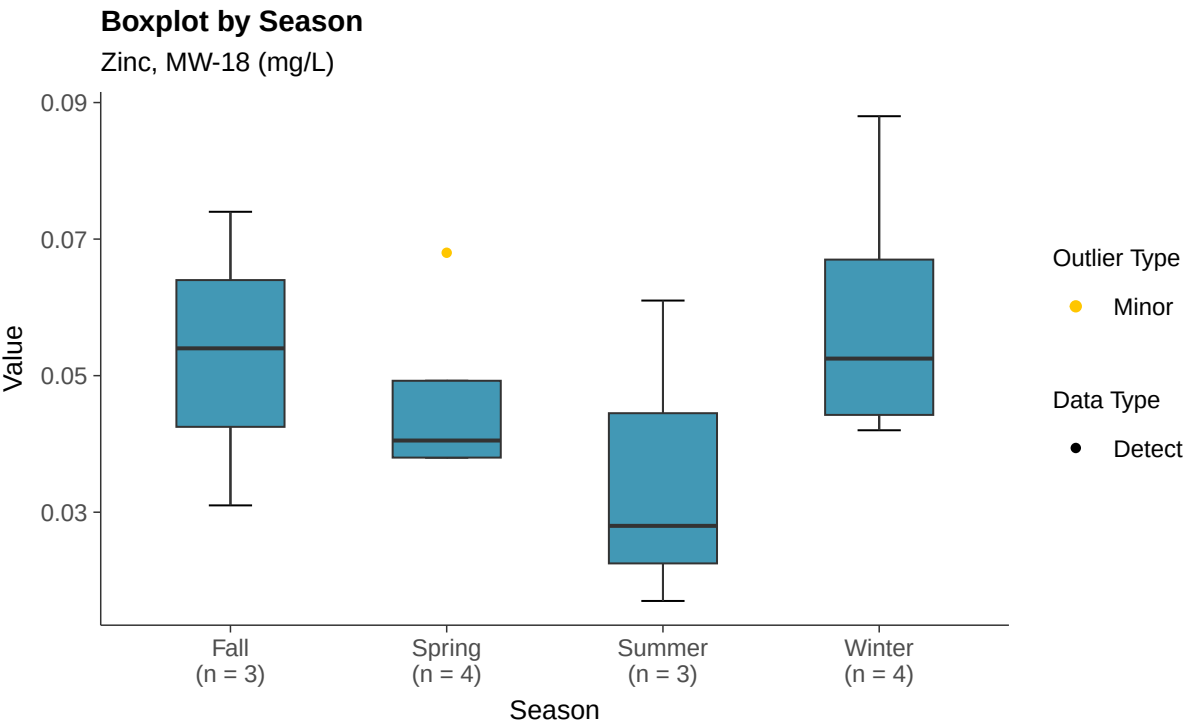
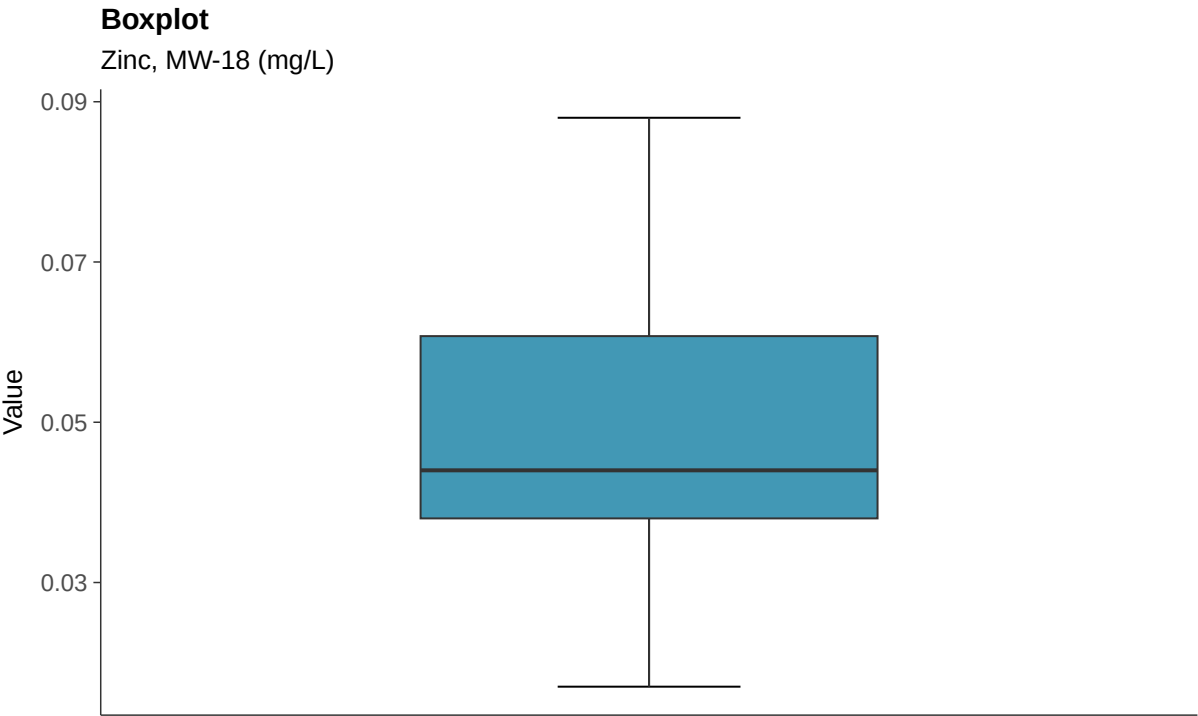


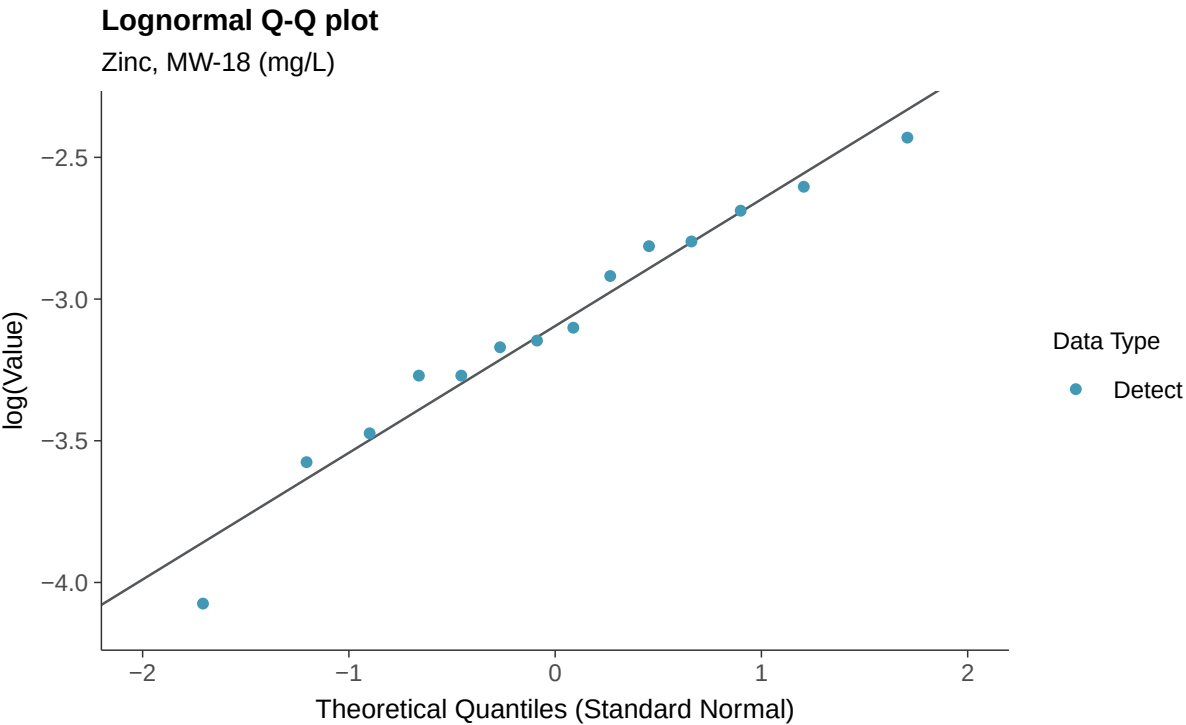
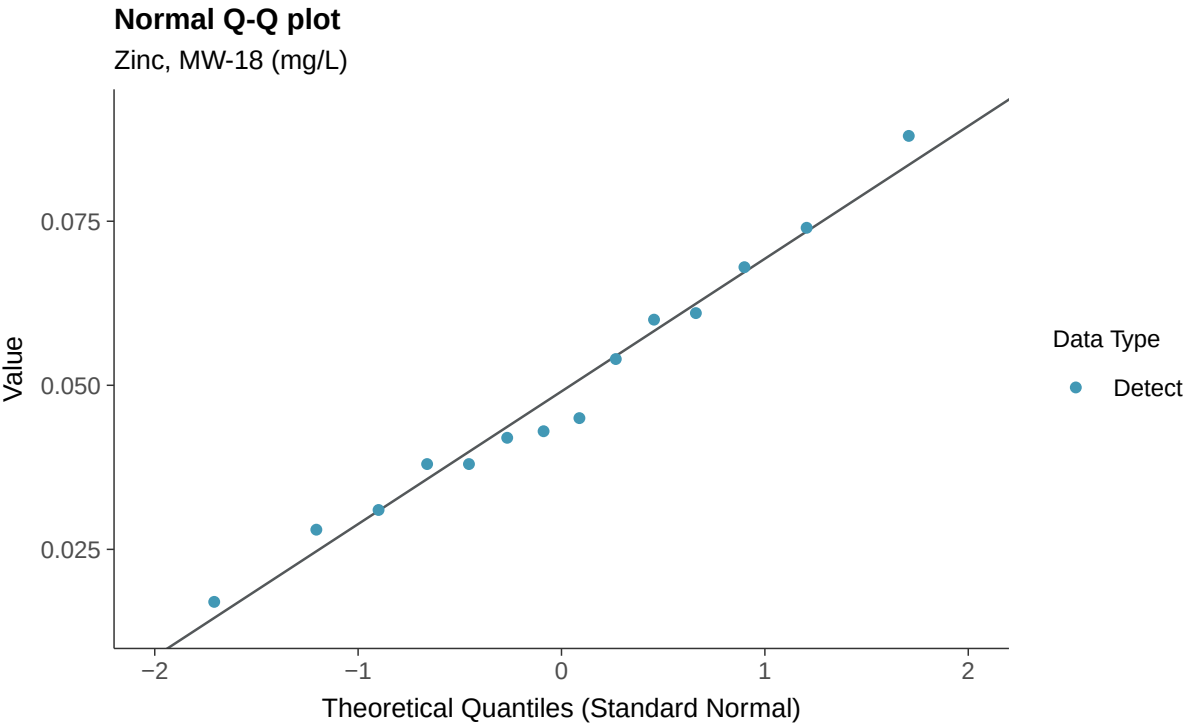


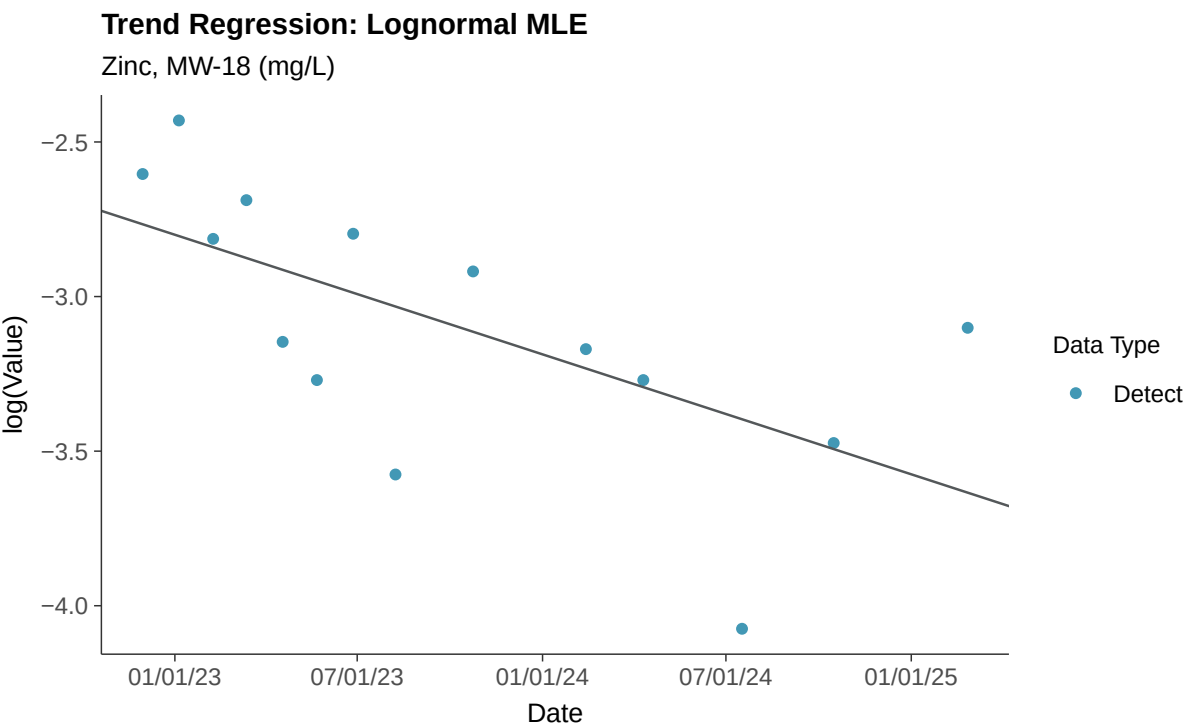
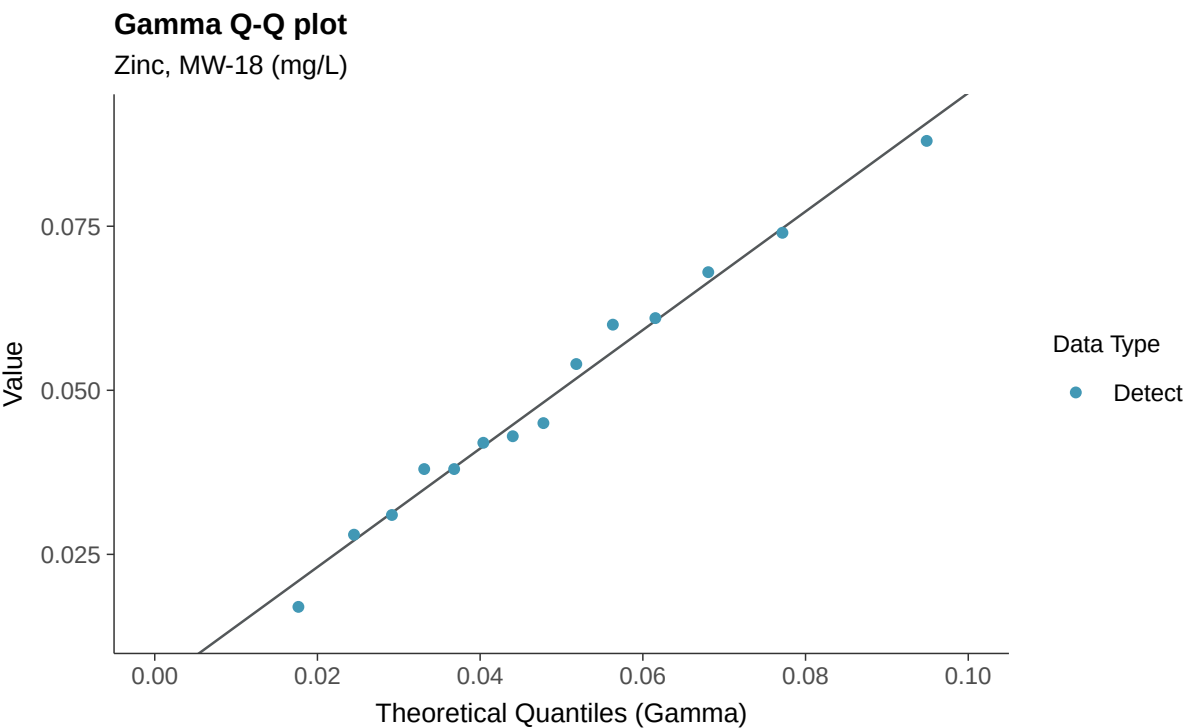
Part 115: Zinc, MW-18

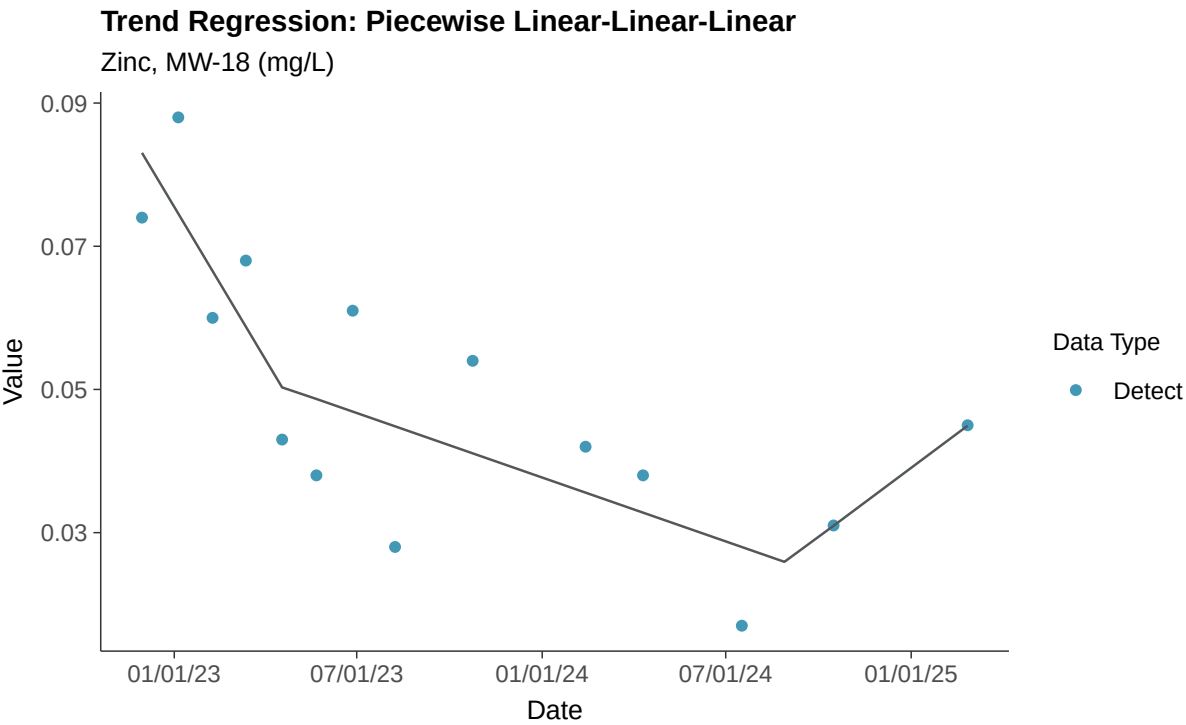
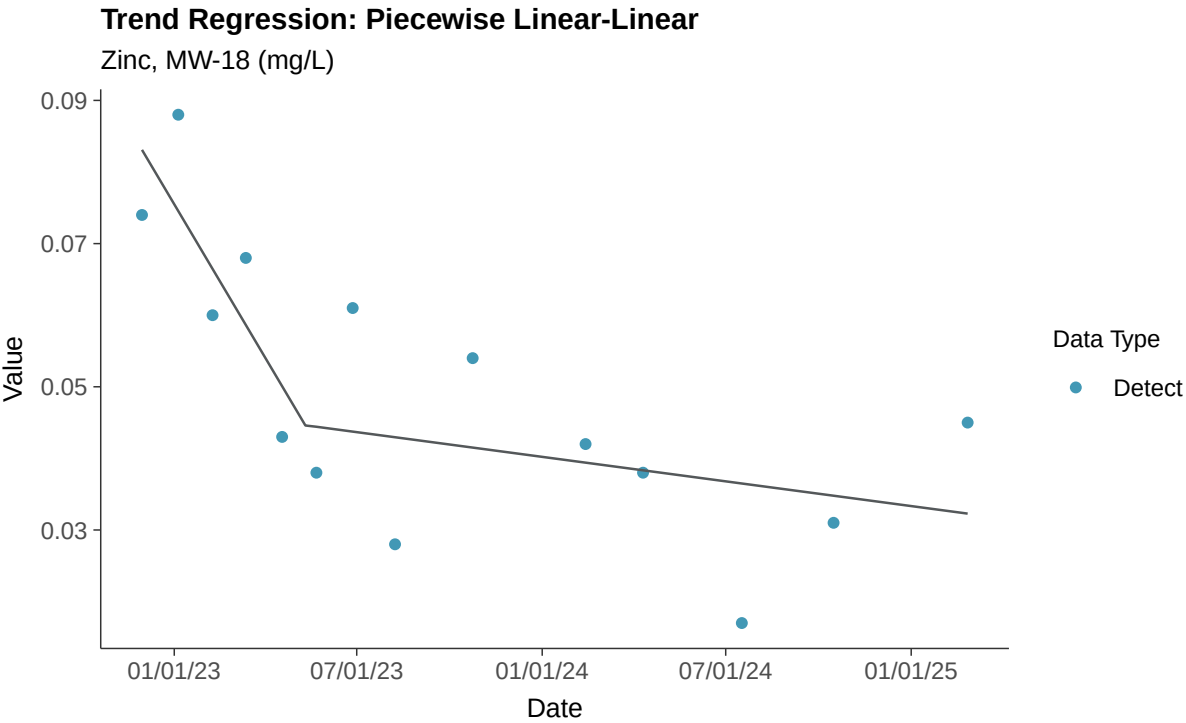
ID: 28_1_5_129







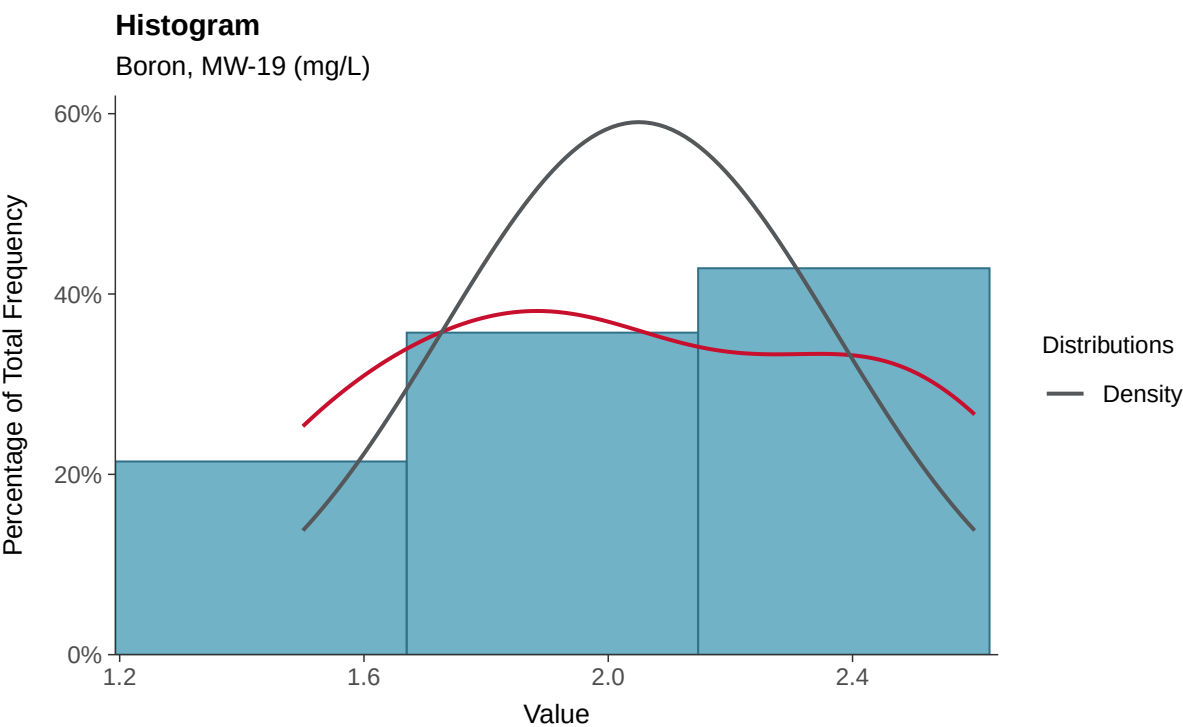
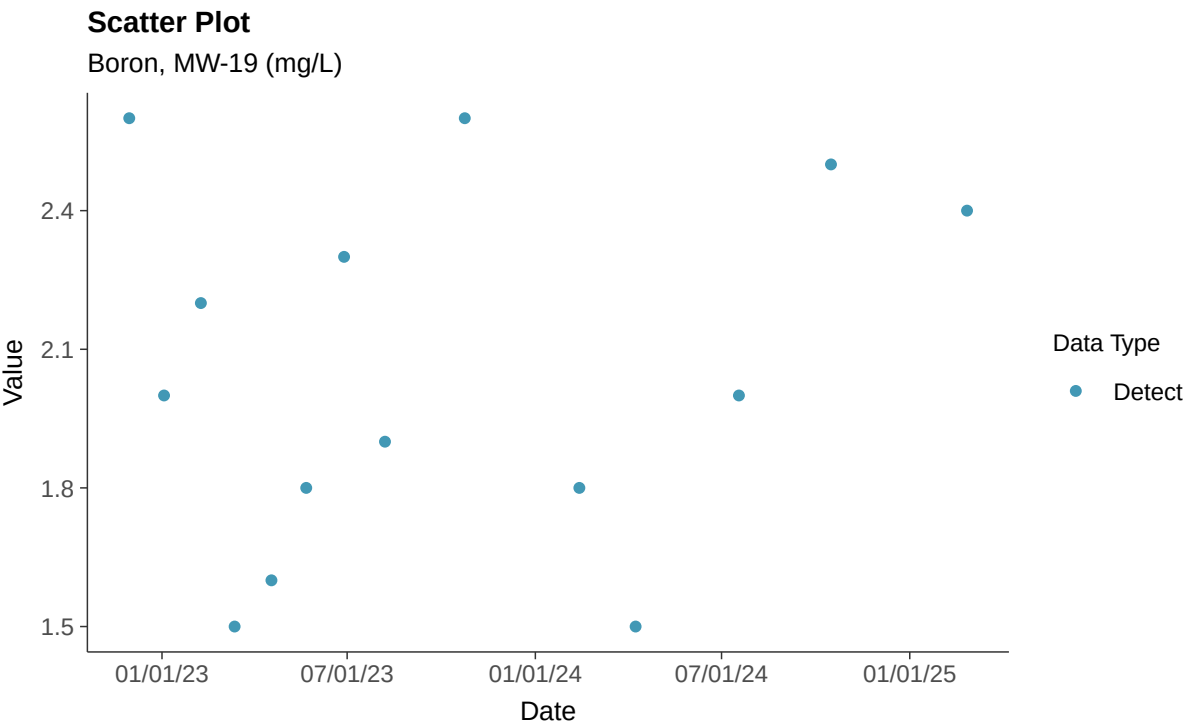


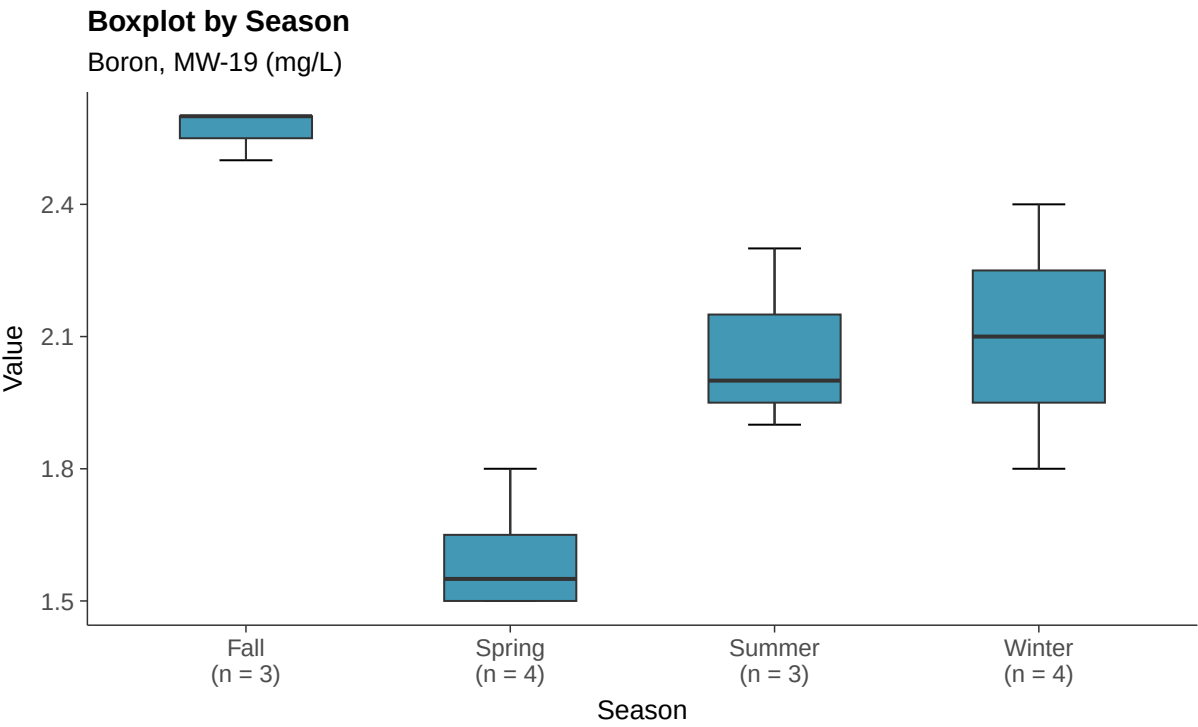
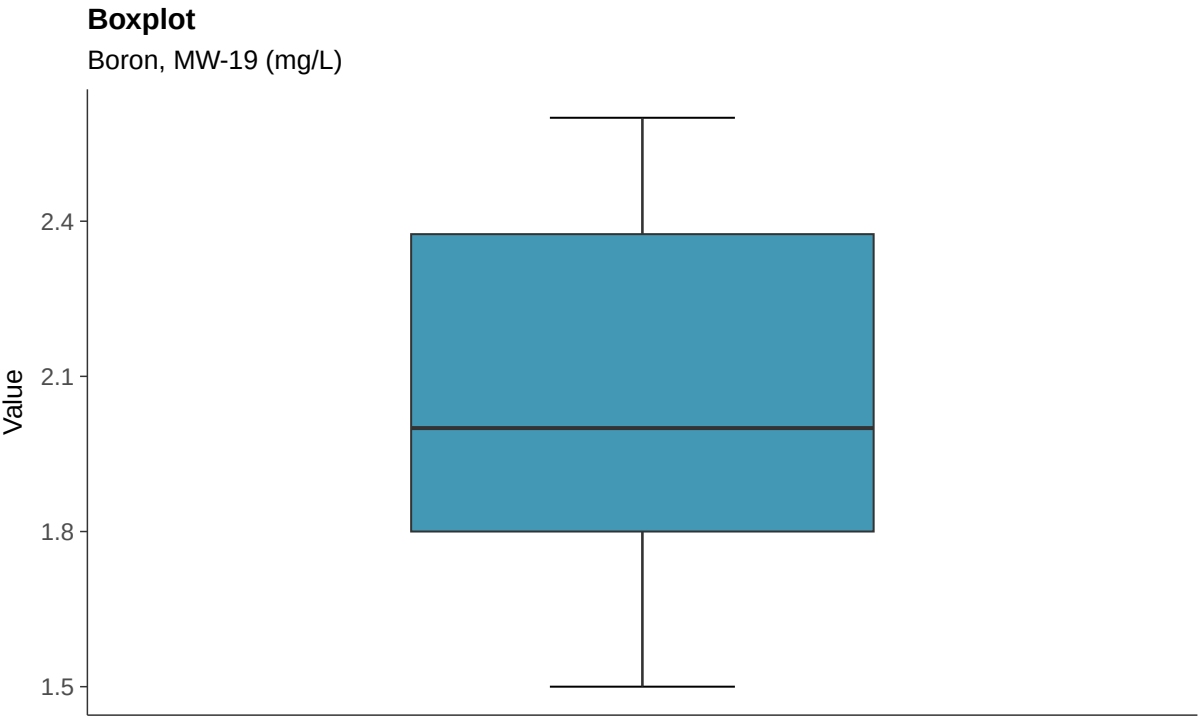


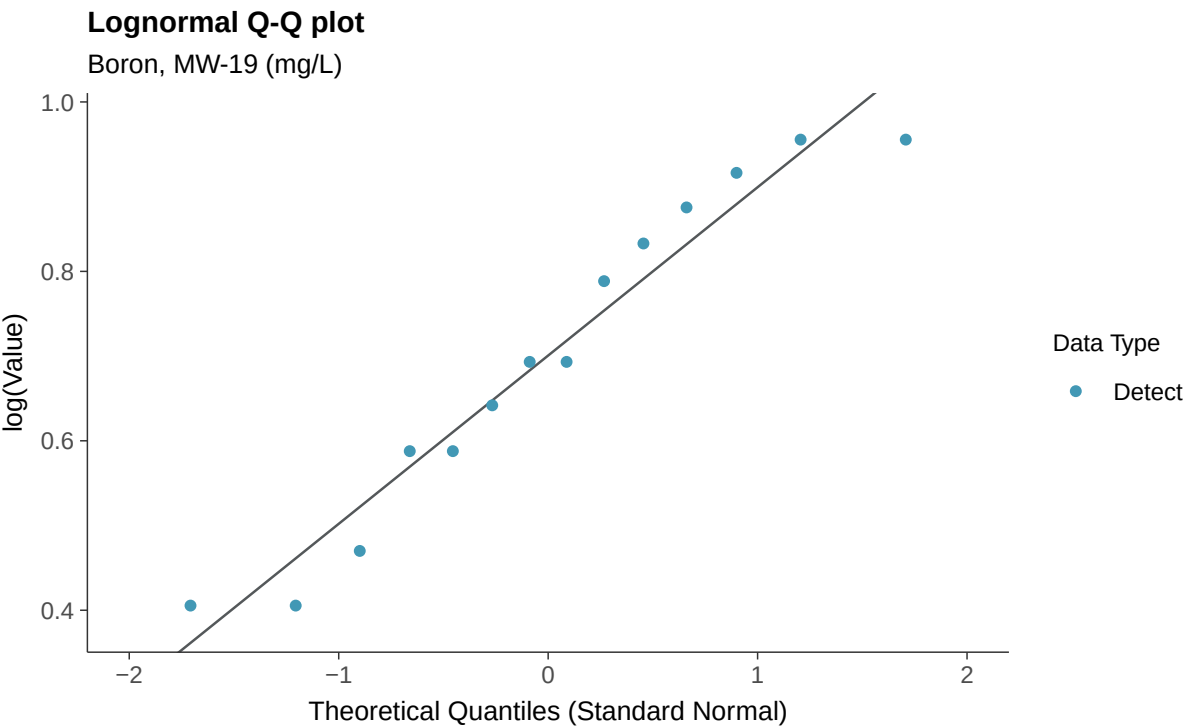
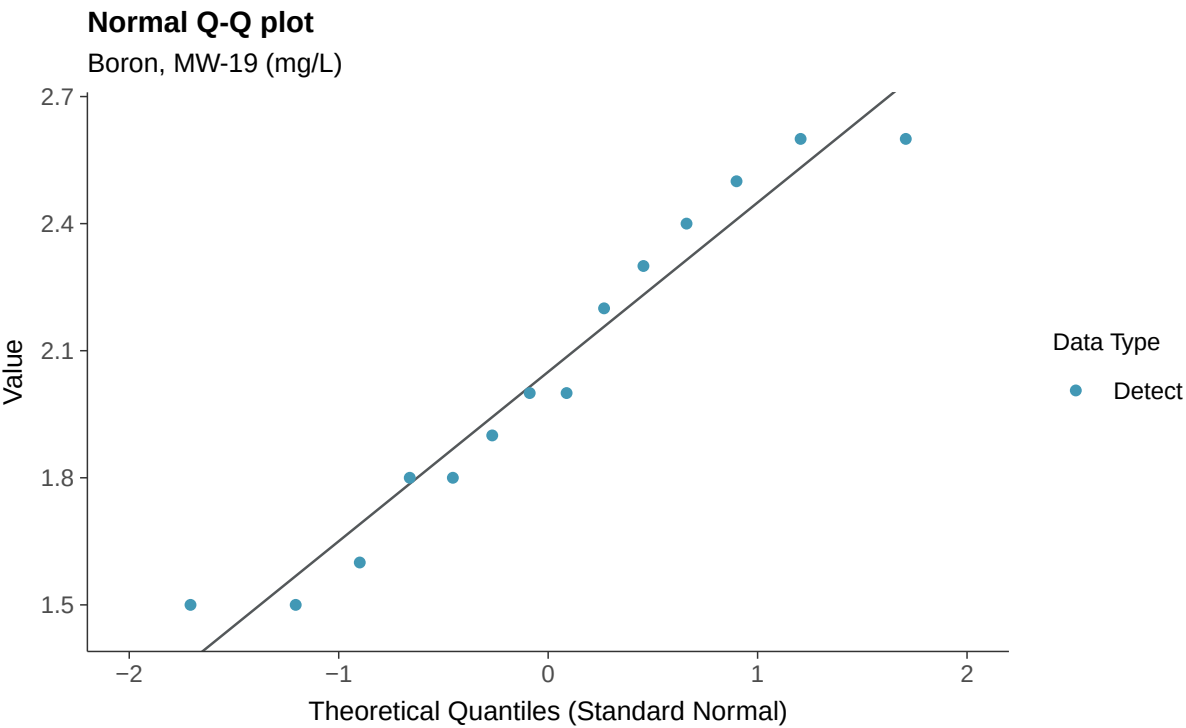


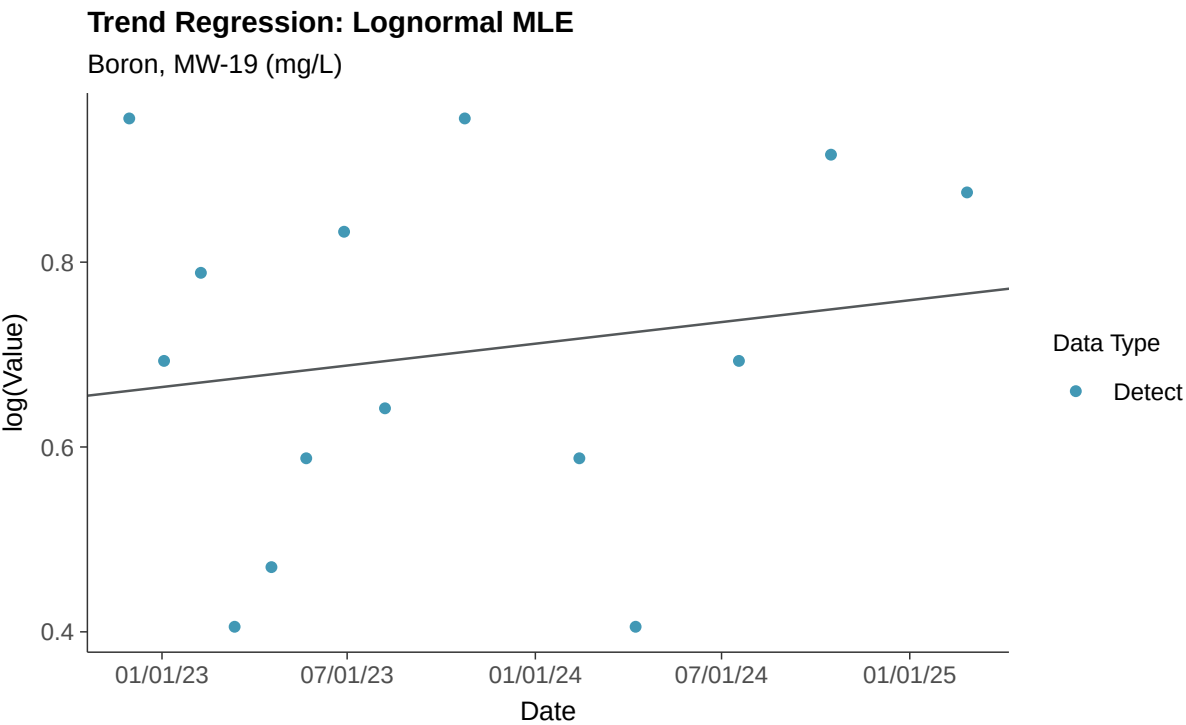
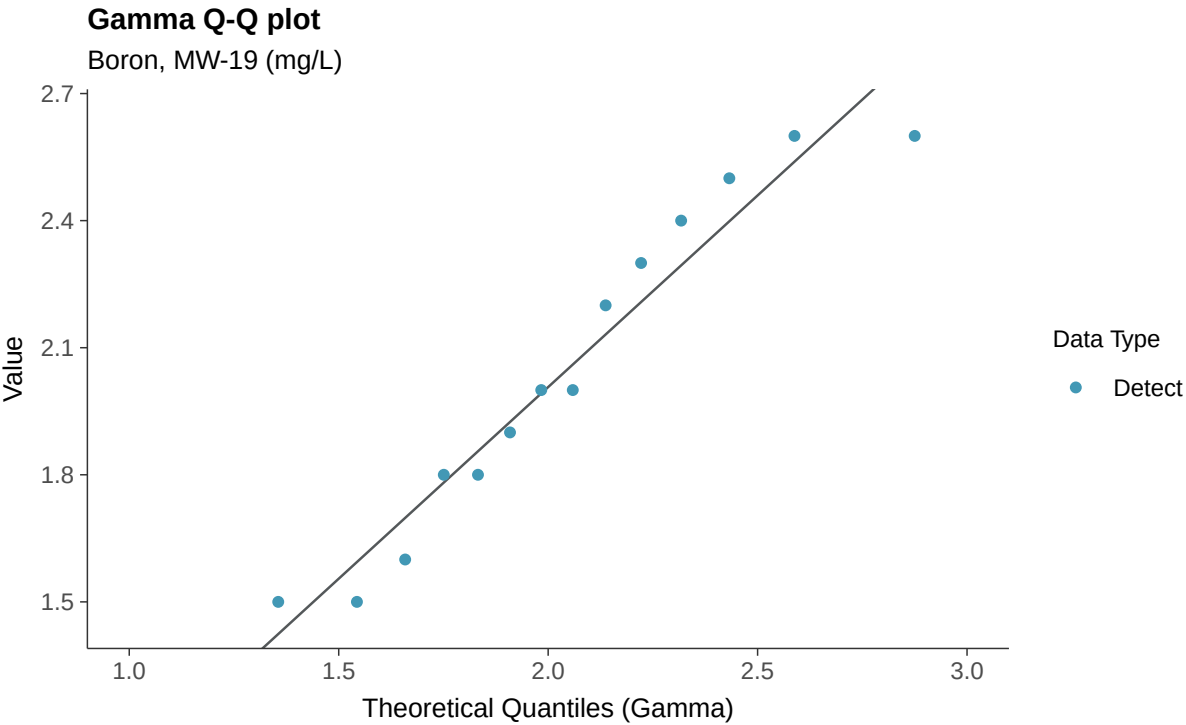
Appendix III: Boron, MW-19

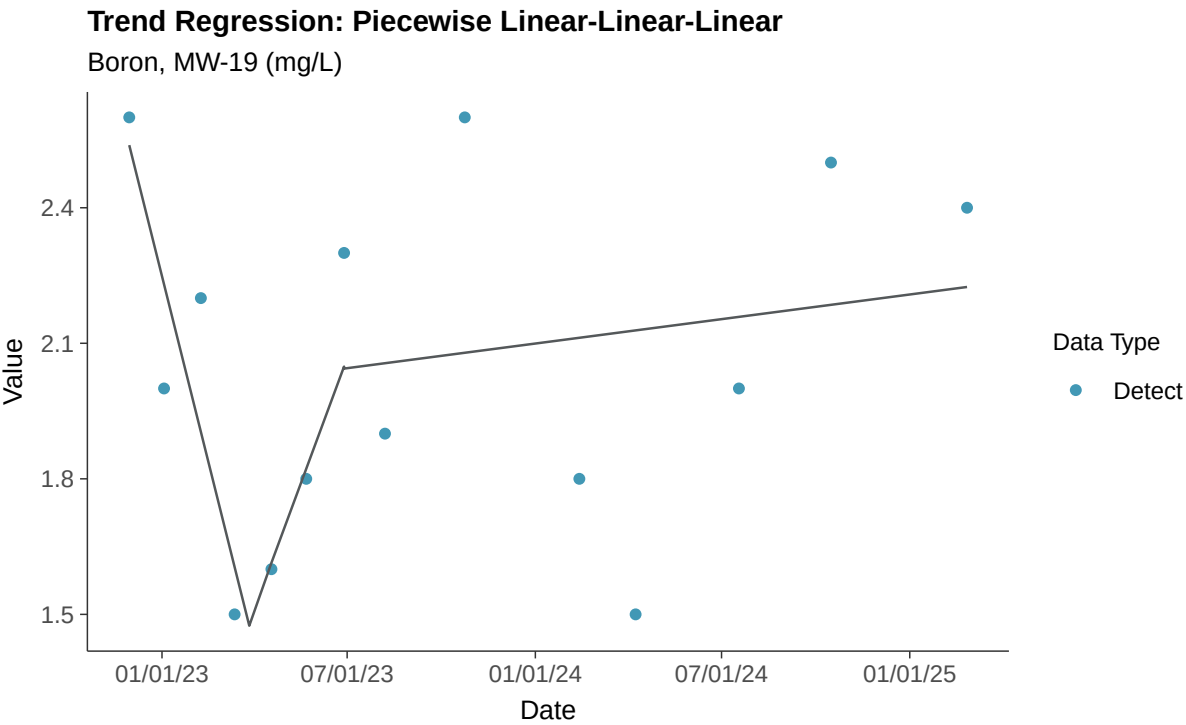
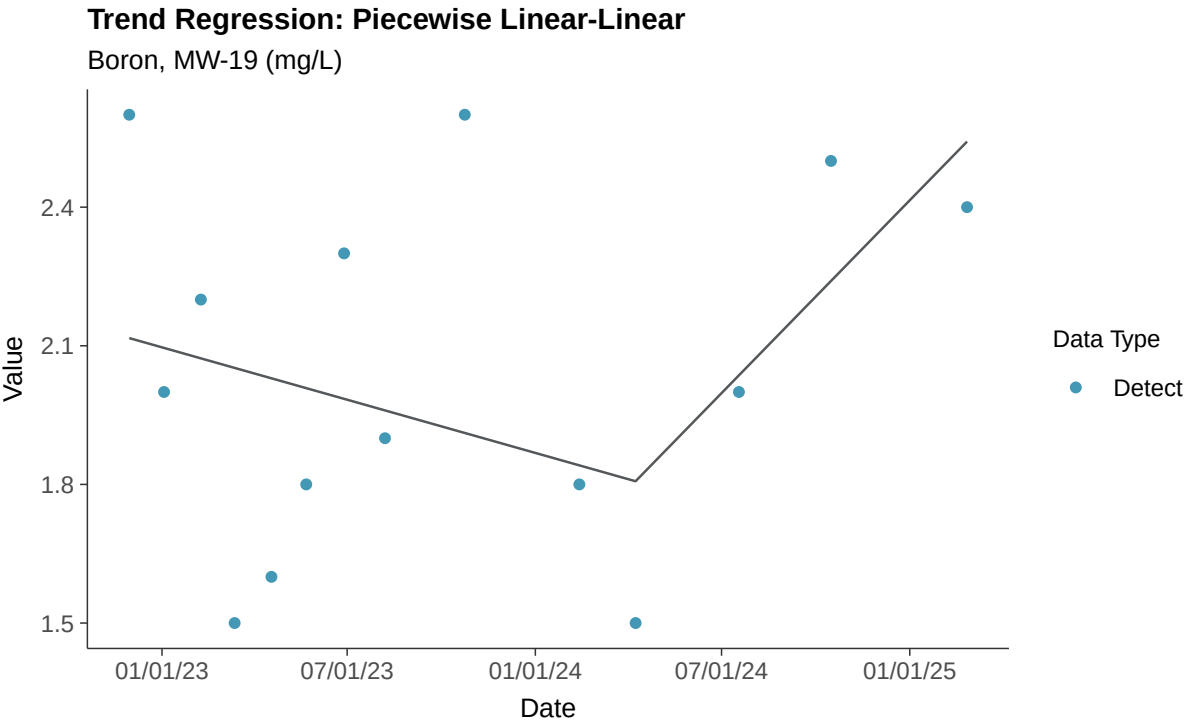
ID: 29_1_3_105







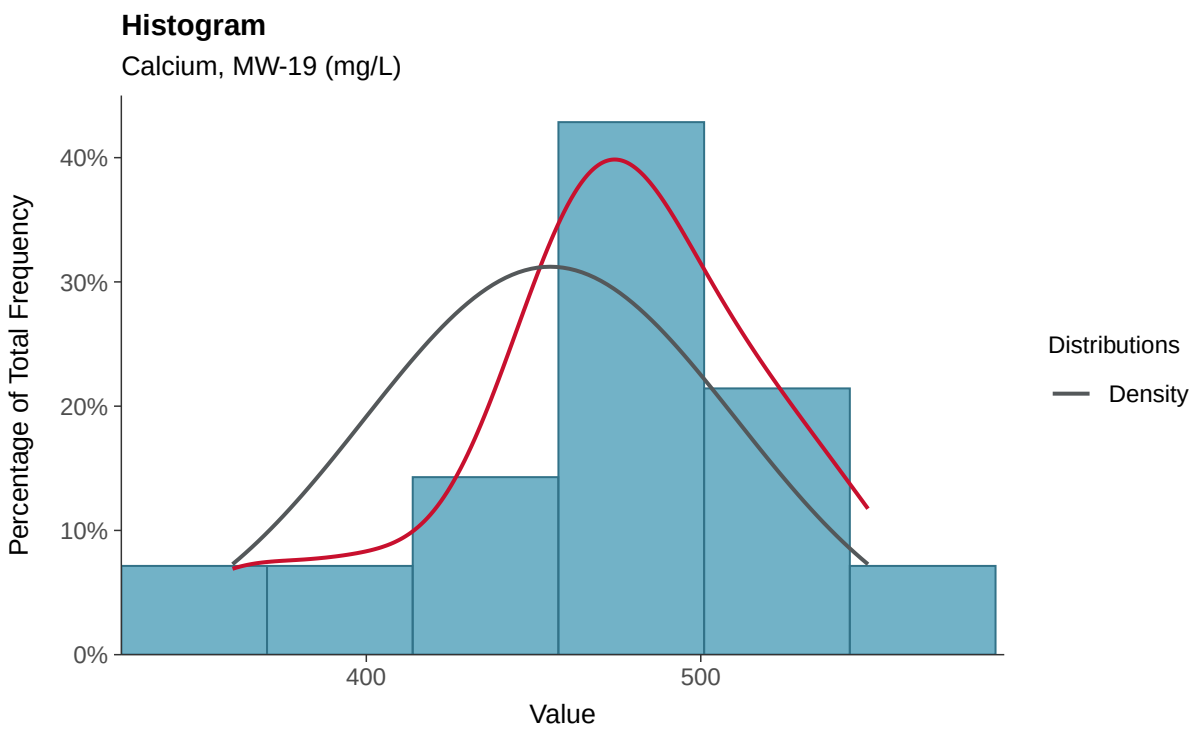
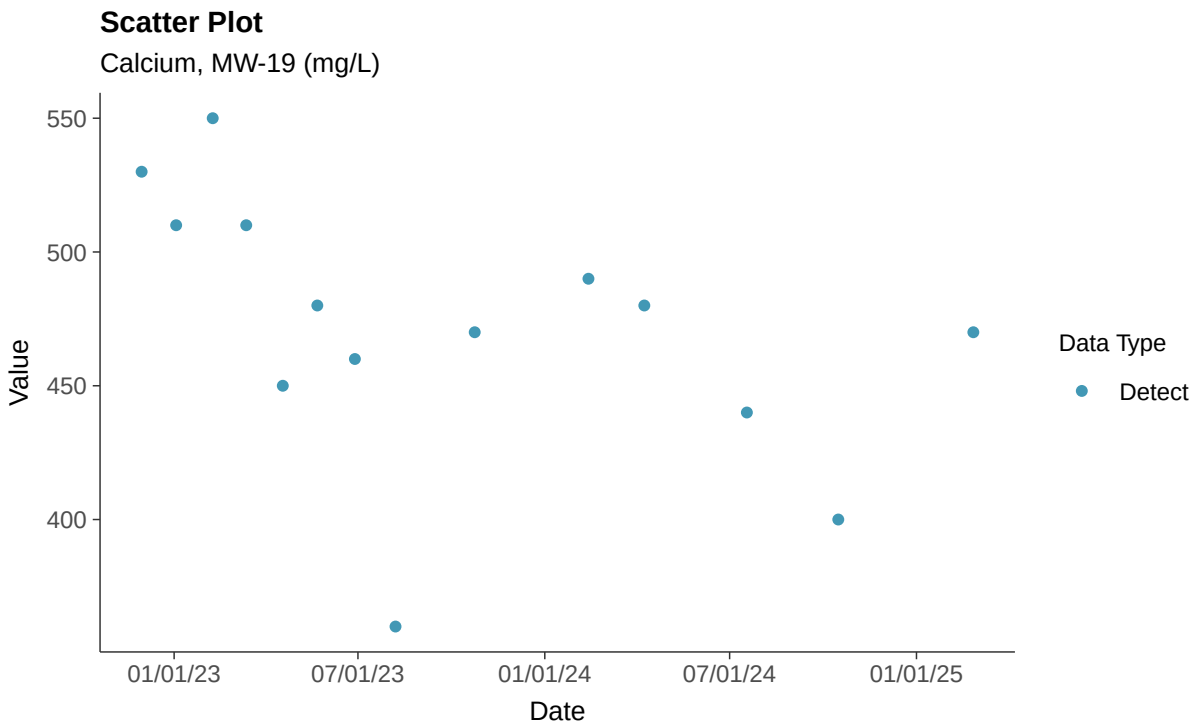


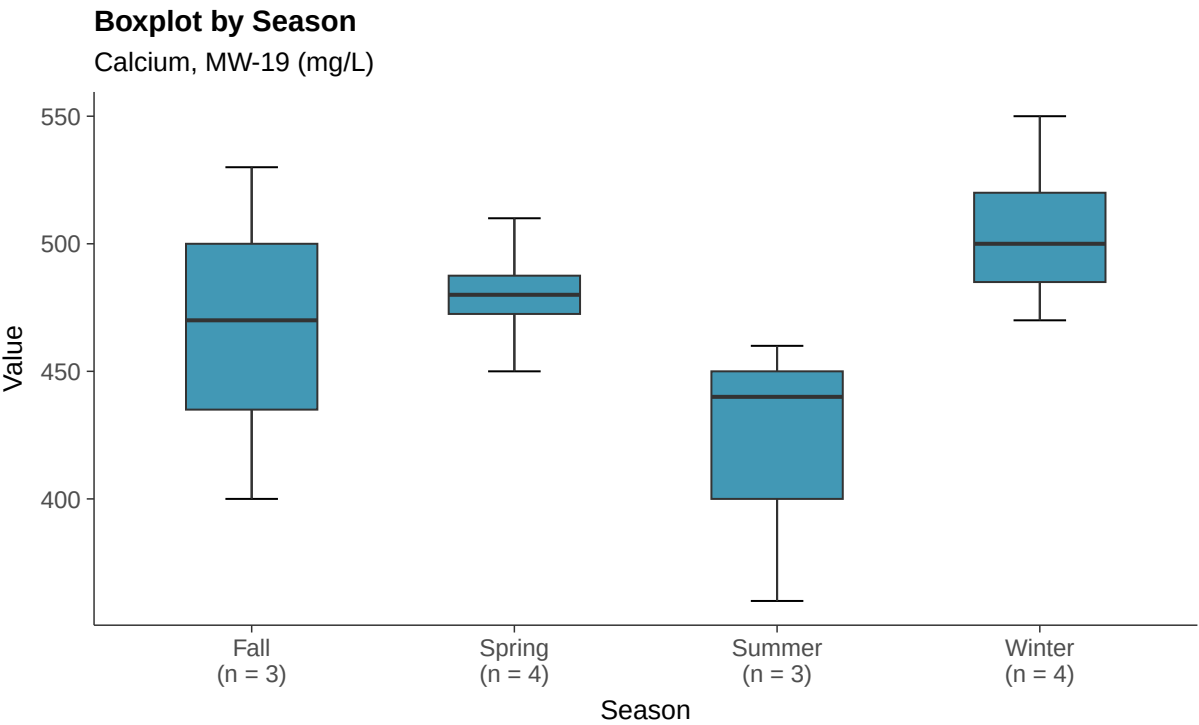
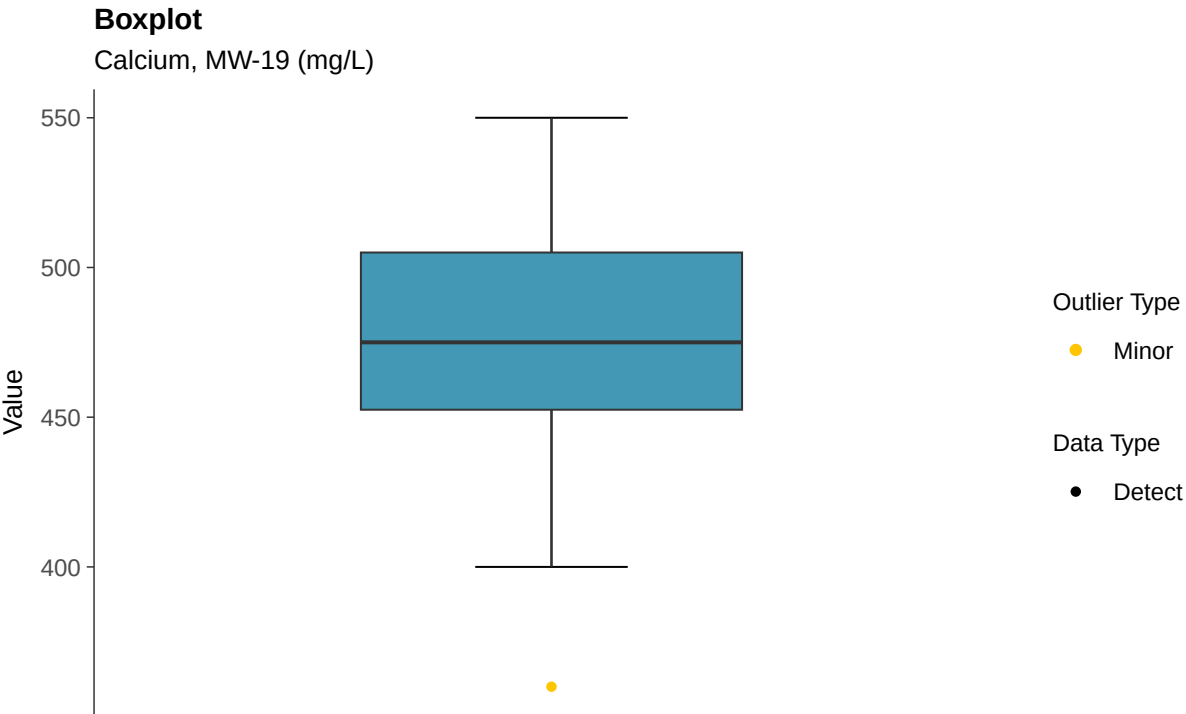


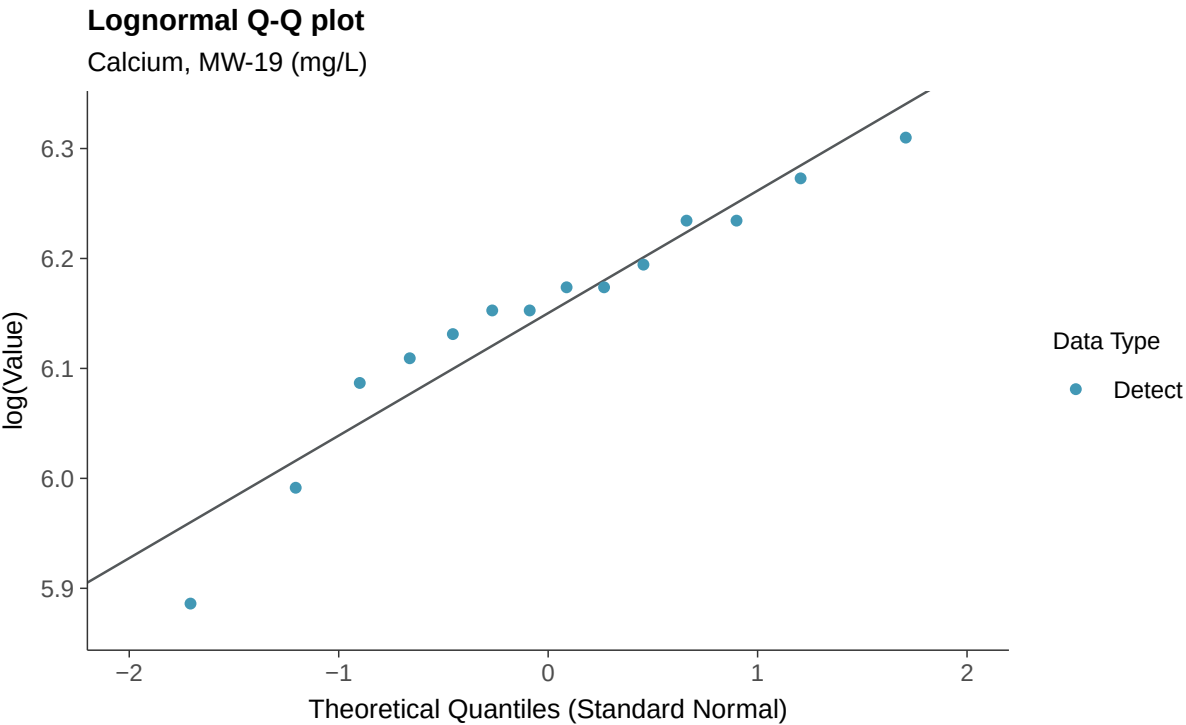
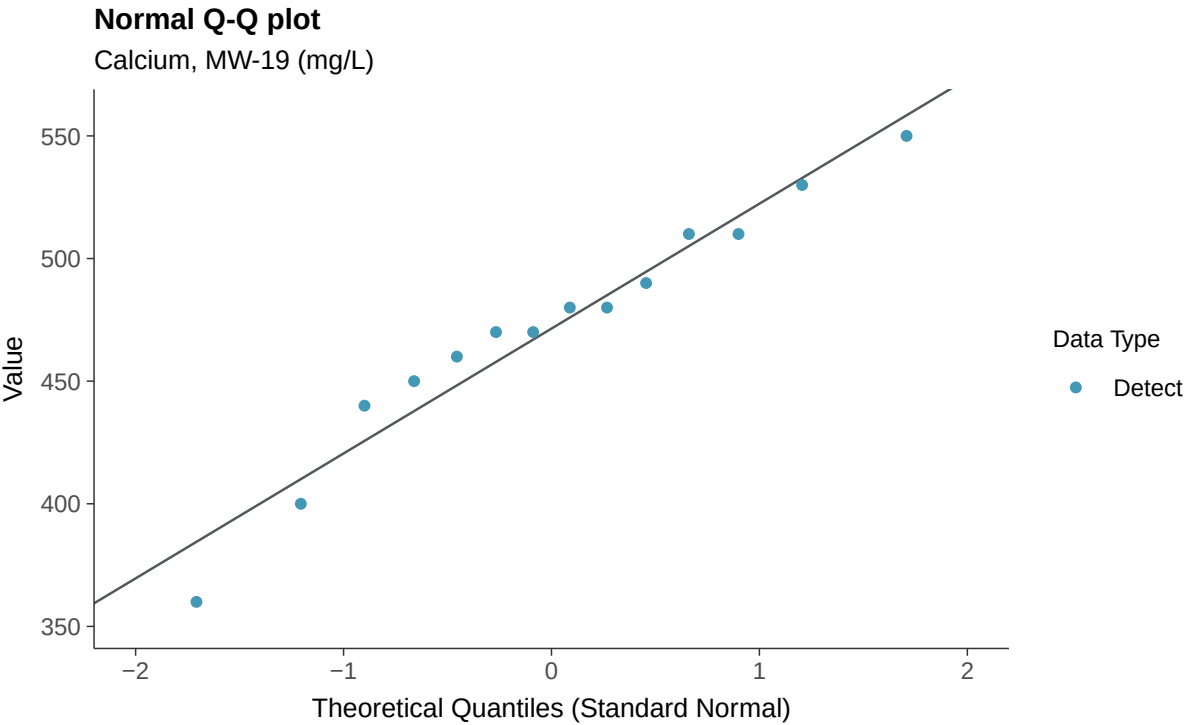


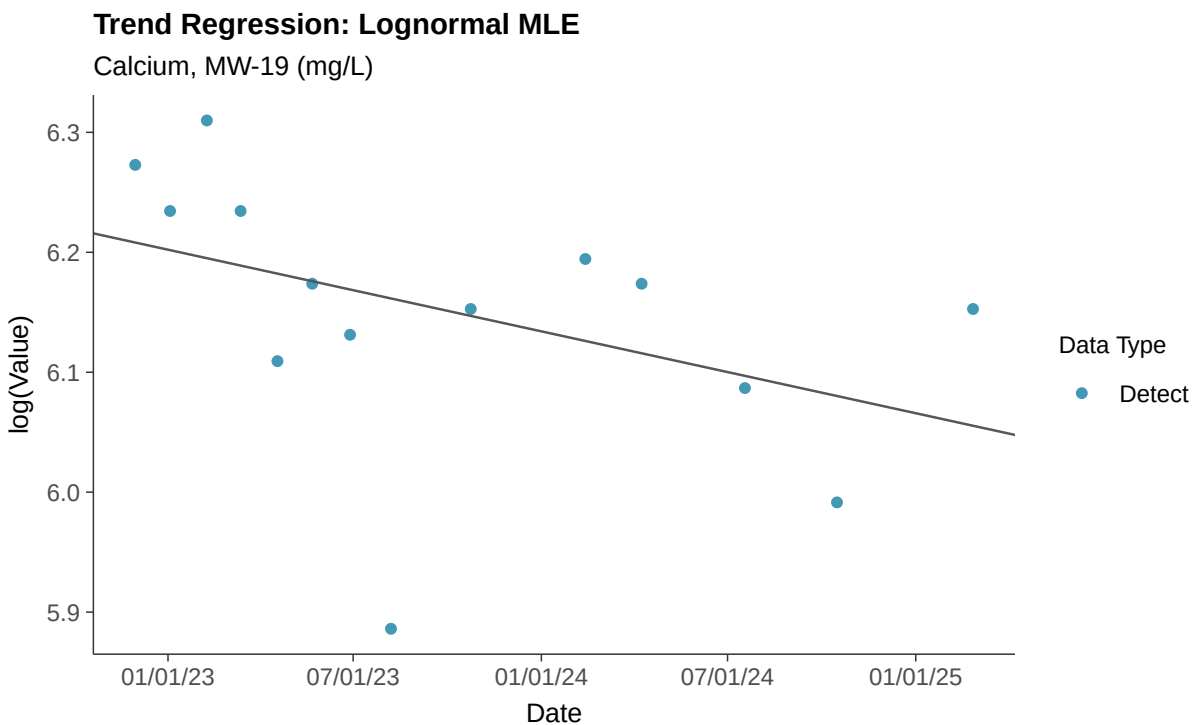
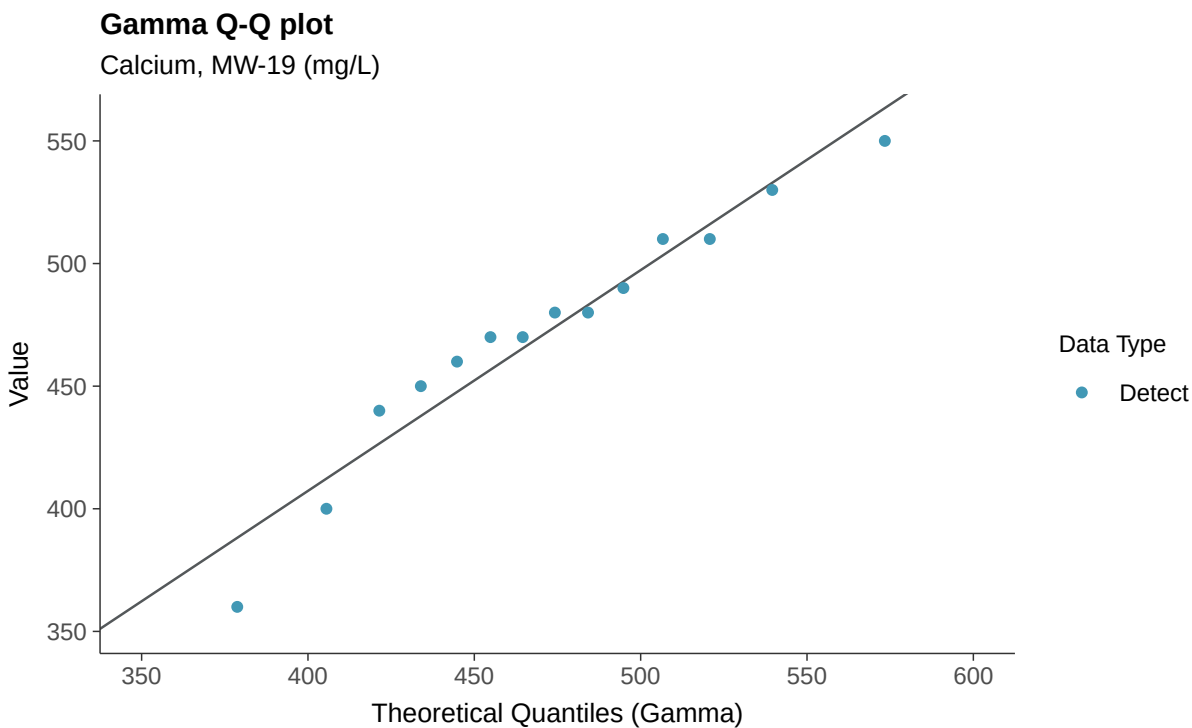
Appendix III: Calcium, MW-19

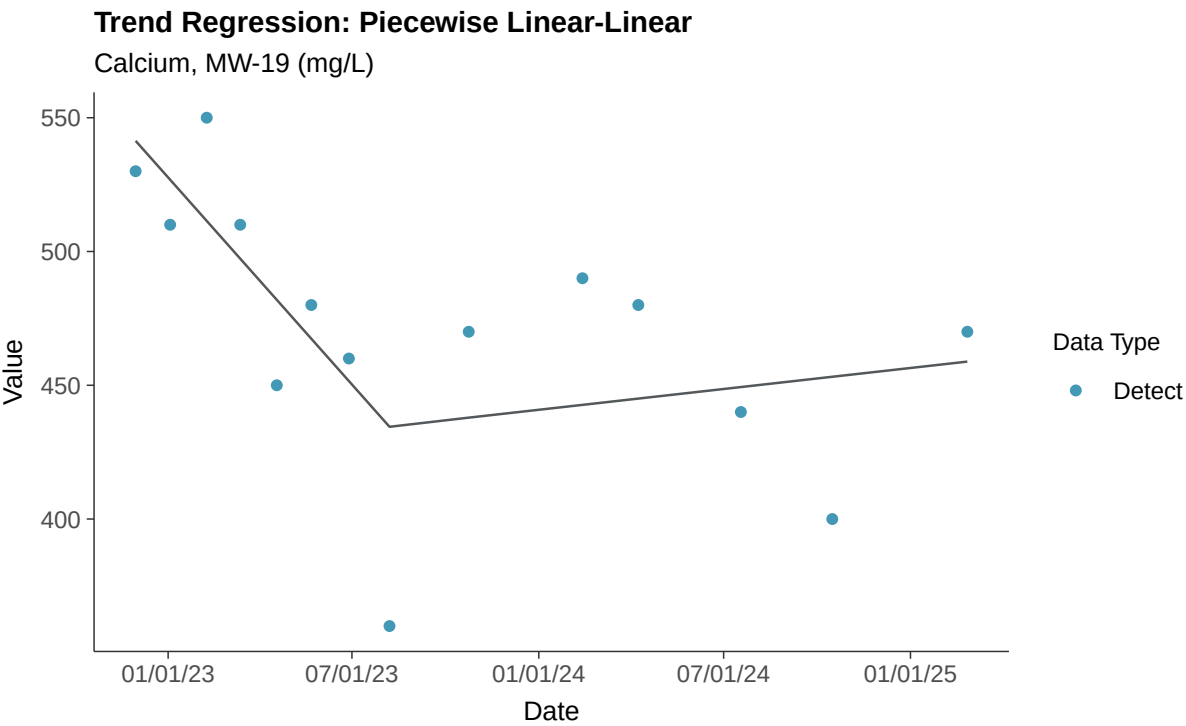
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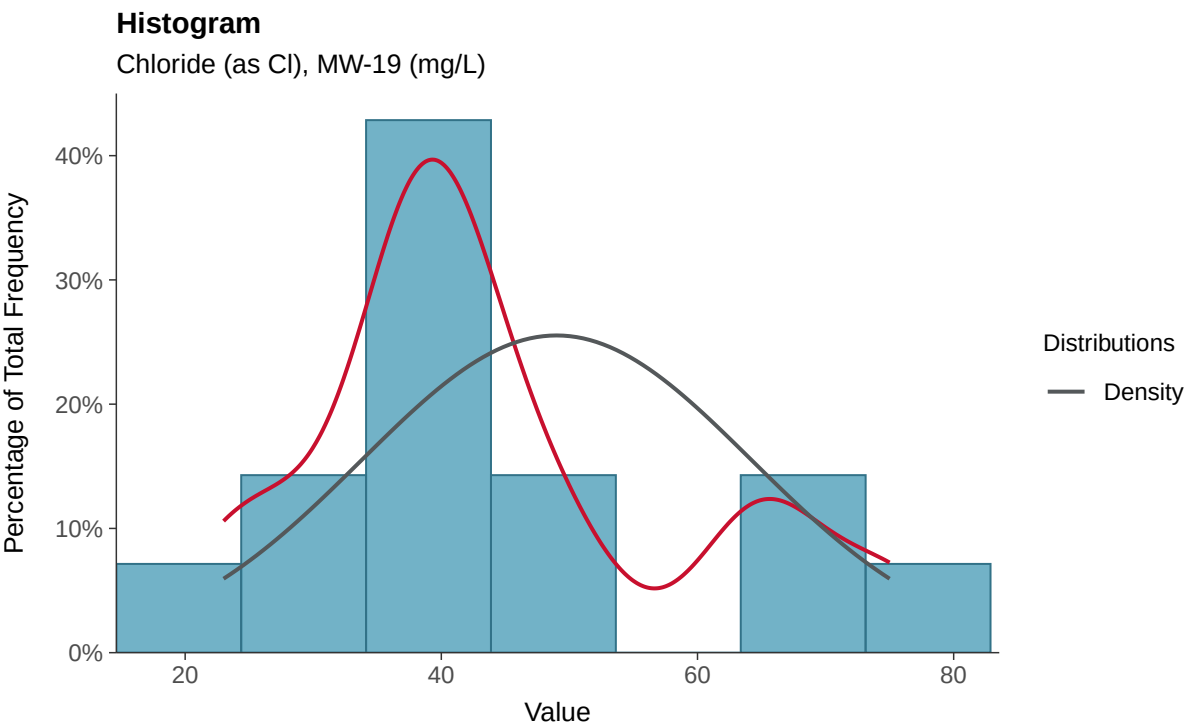
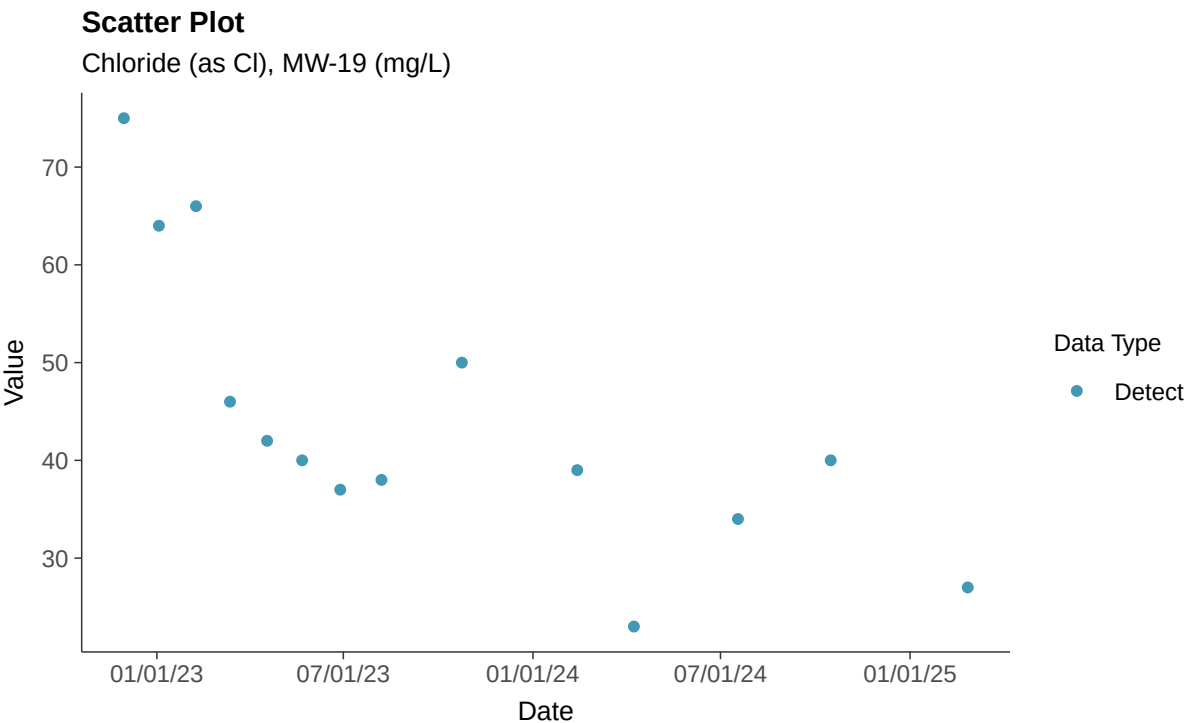


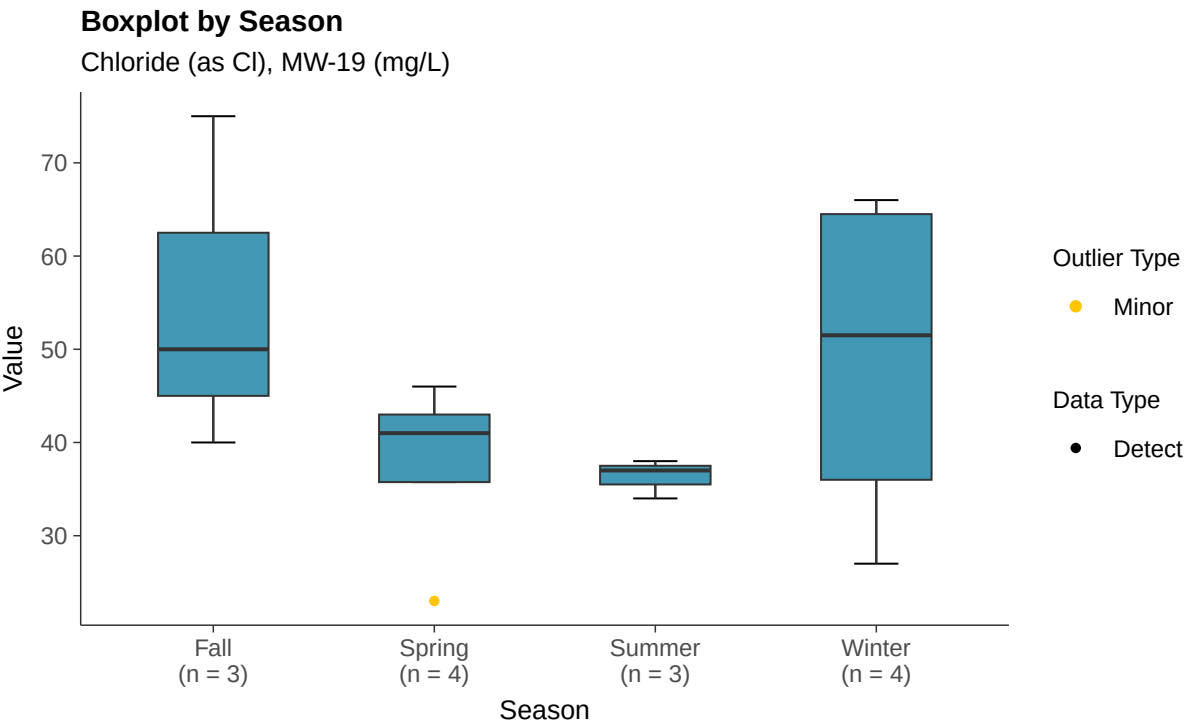
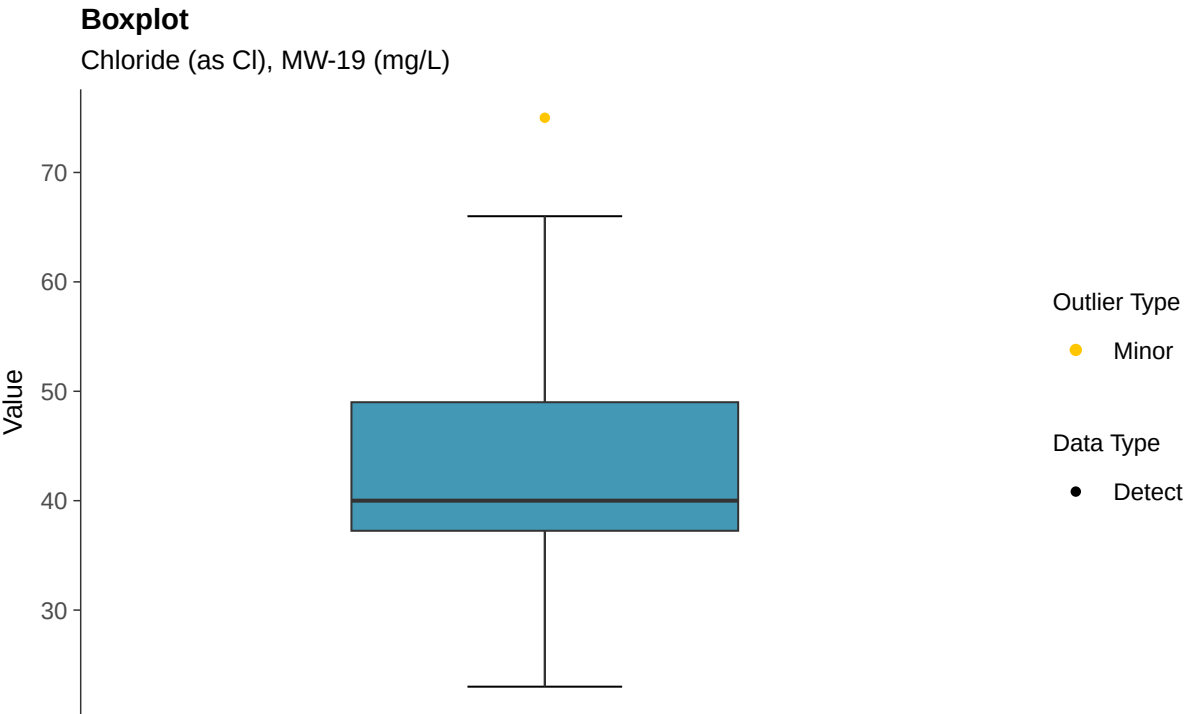


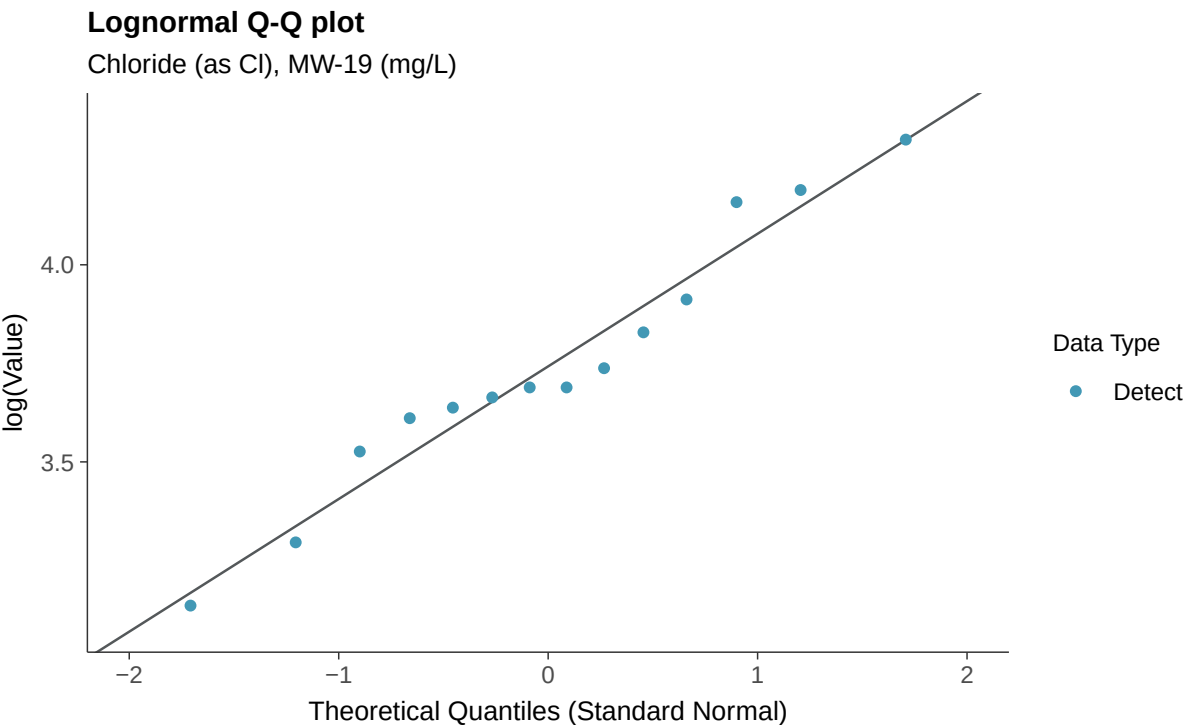
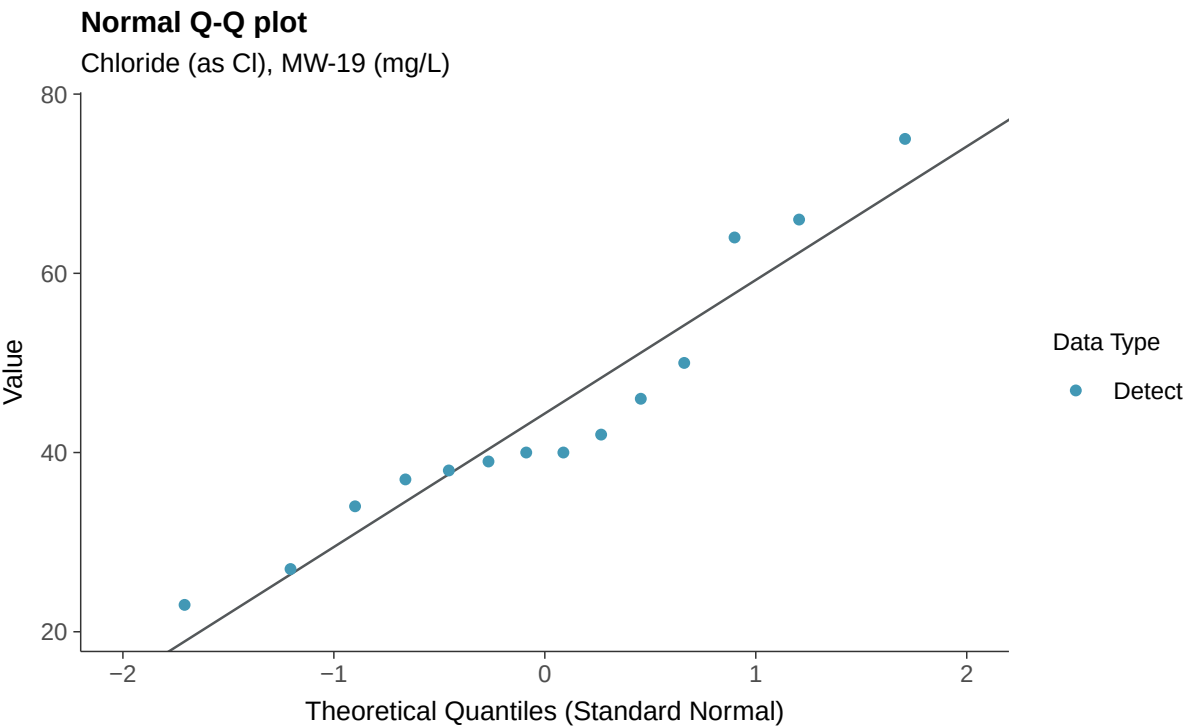


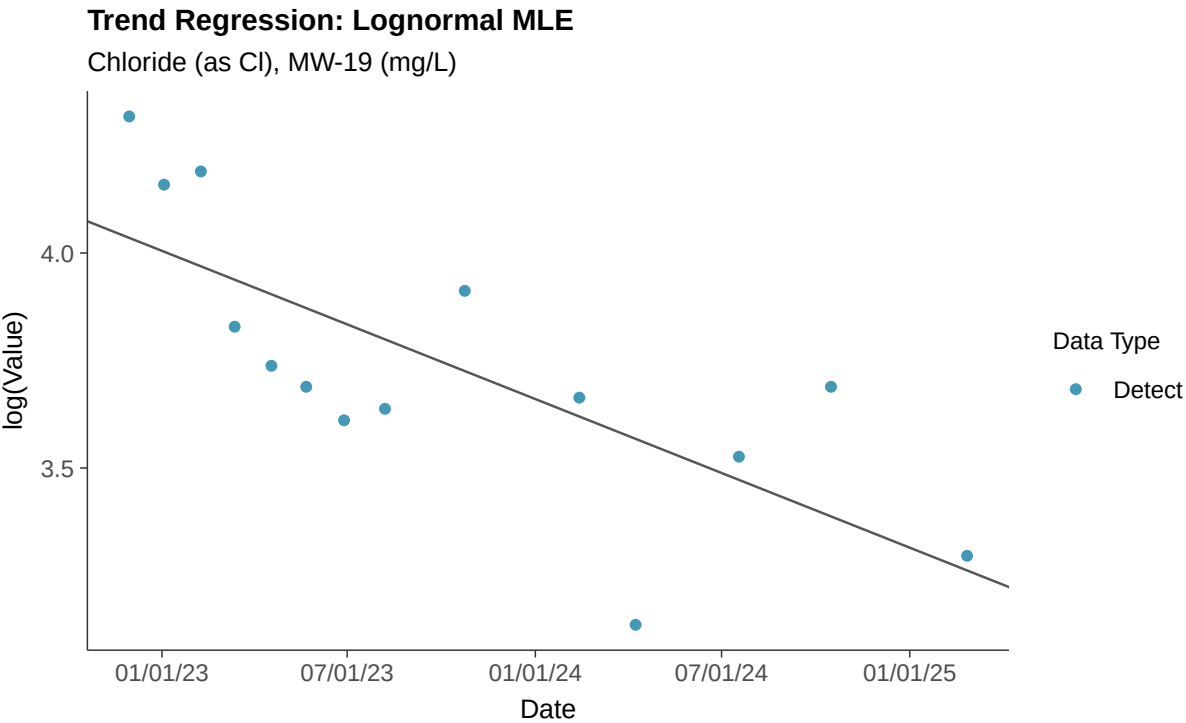
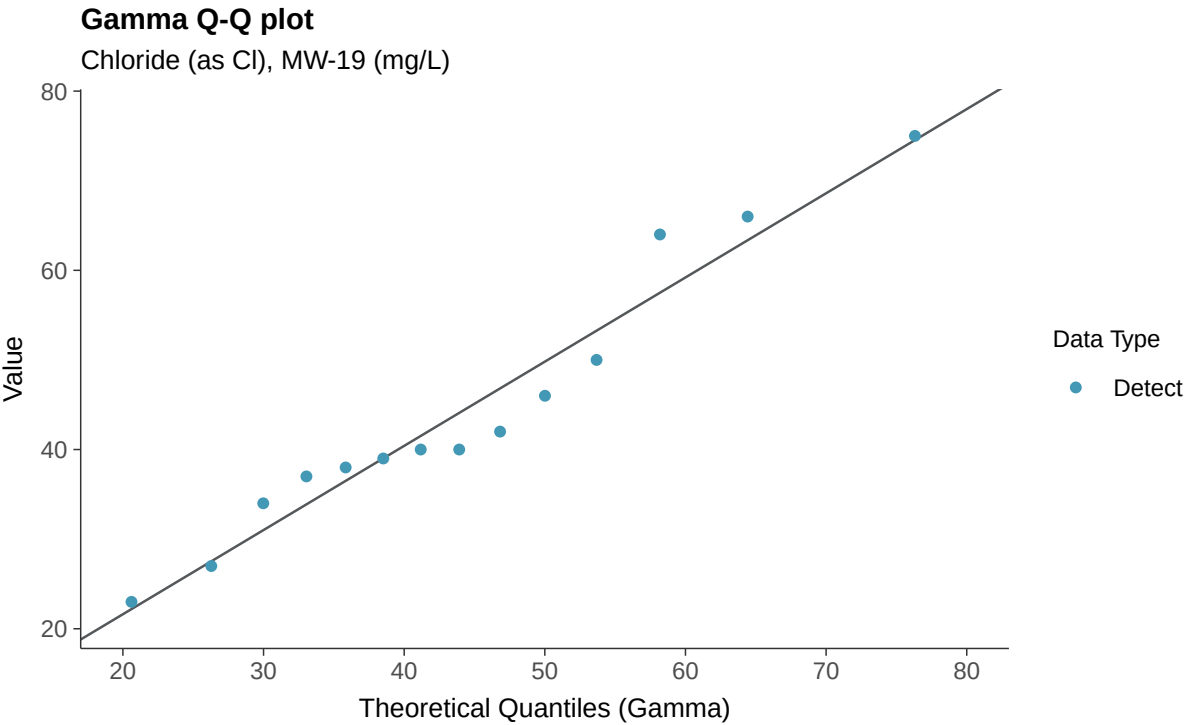
Appendix III: Chloride (as Cl), MW-19

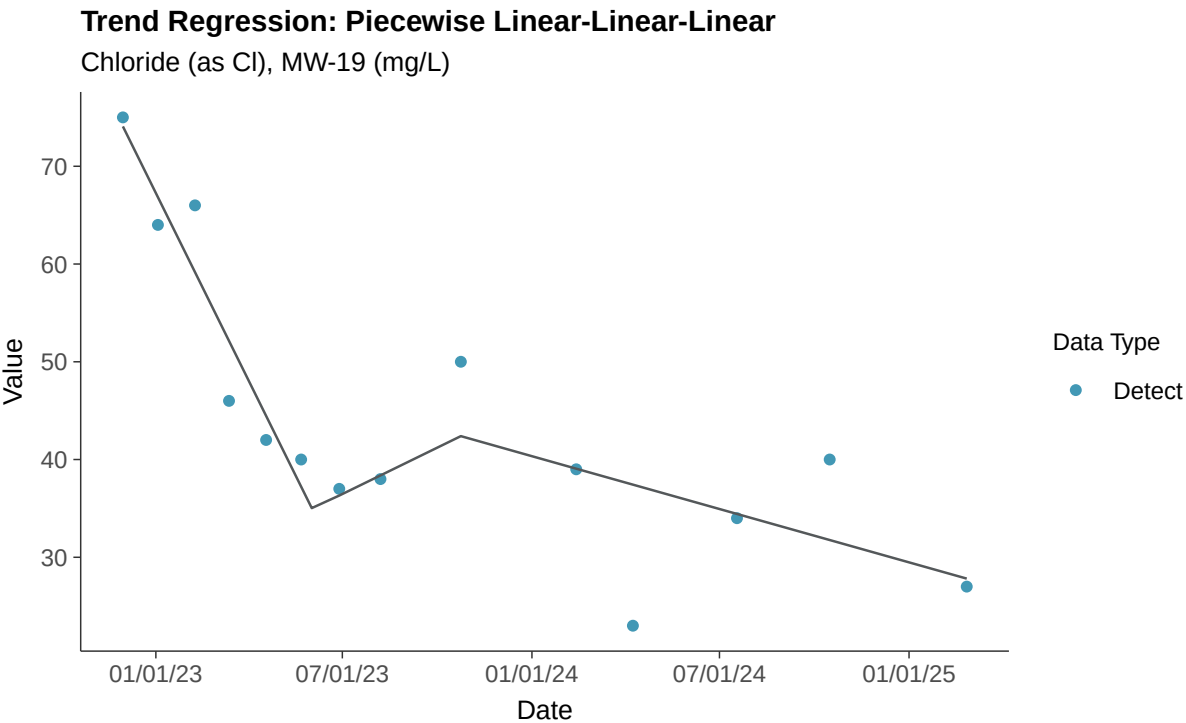
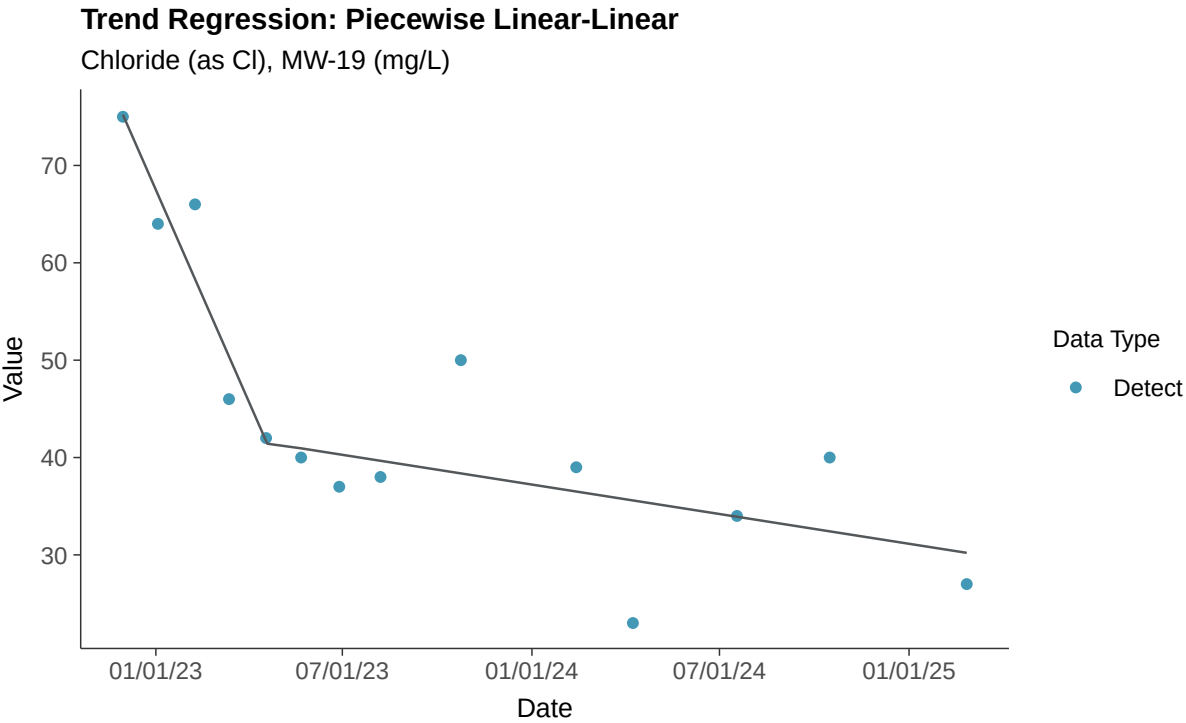
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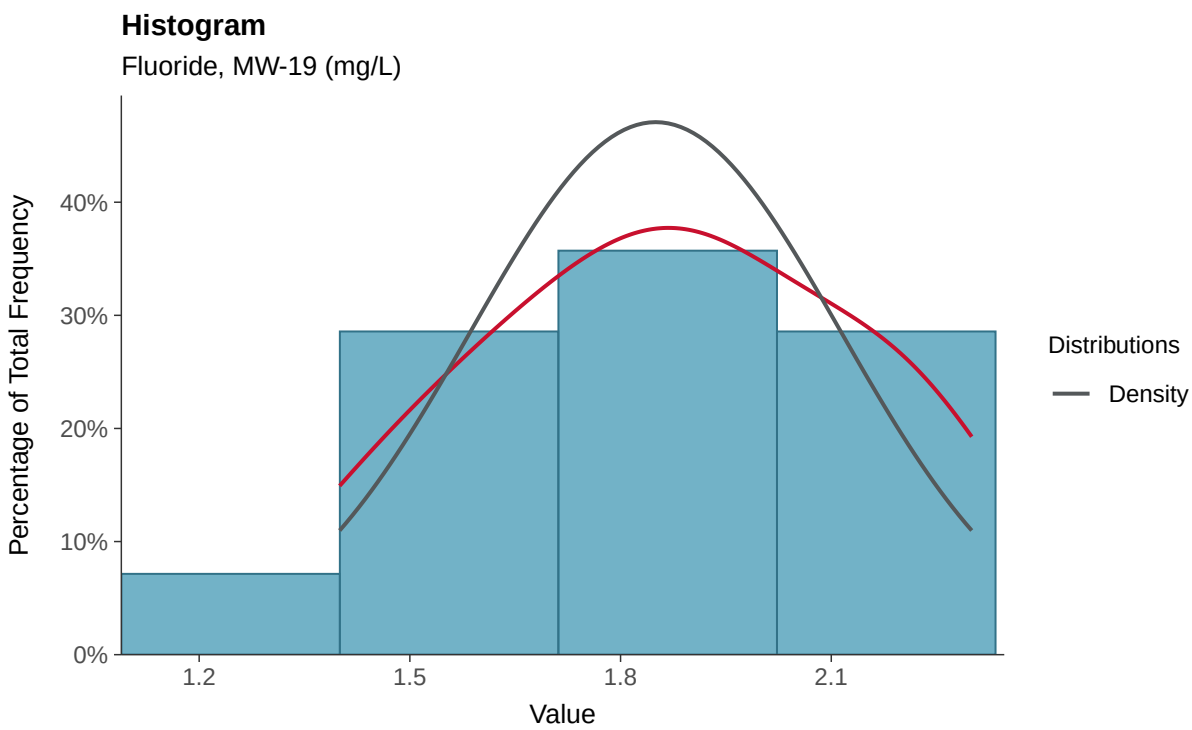
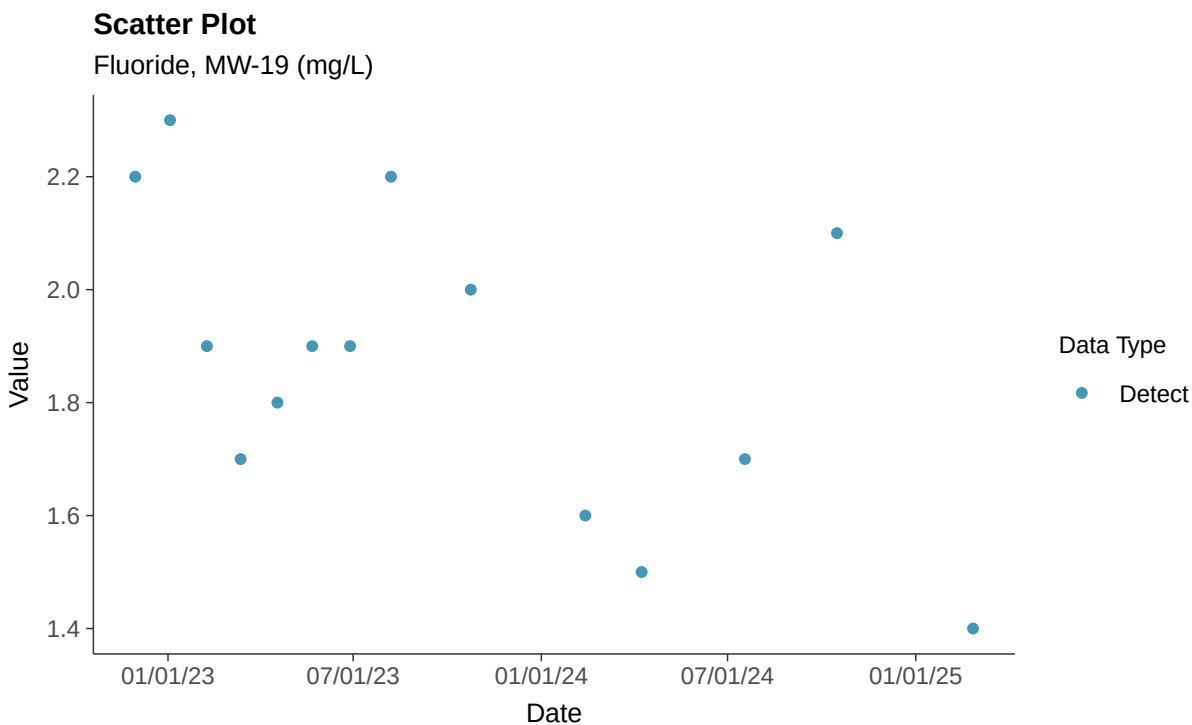


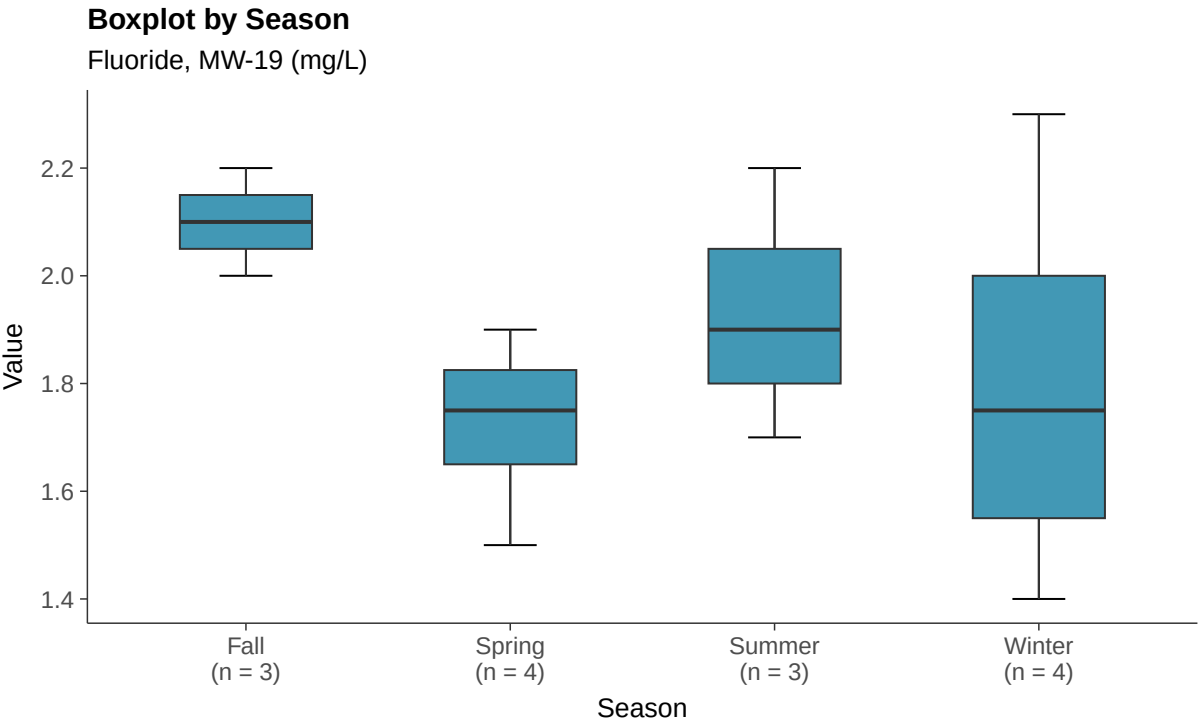
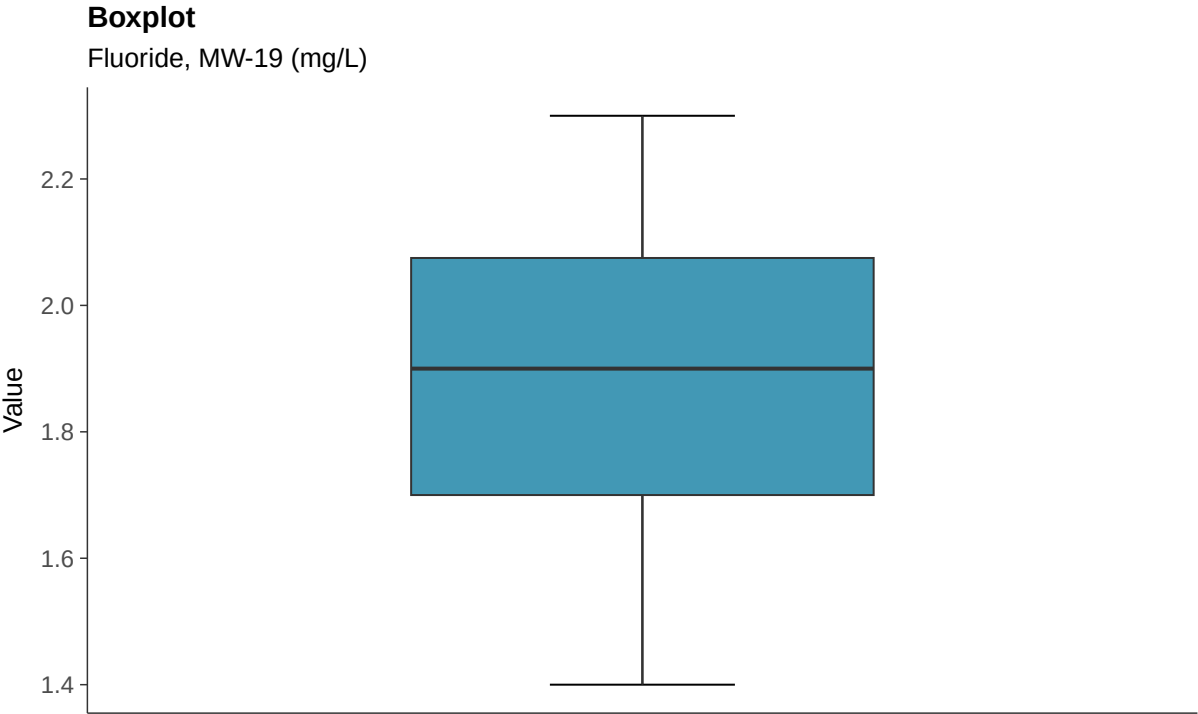


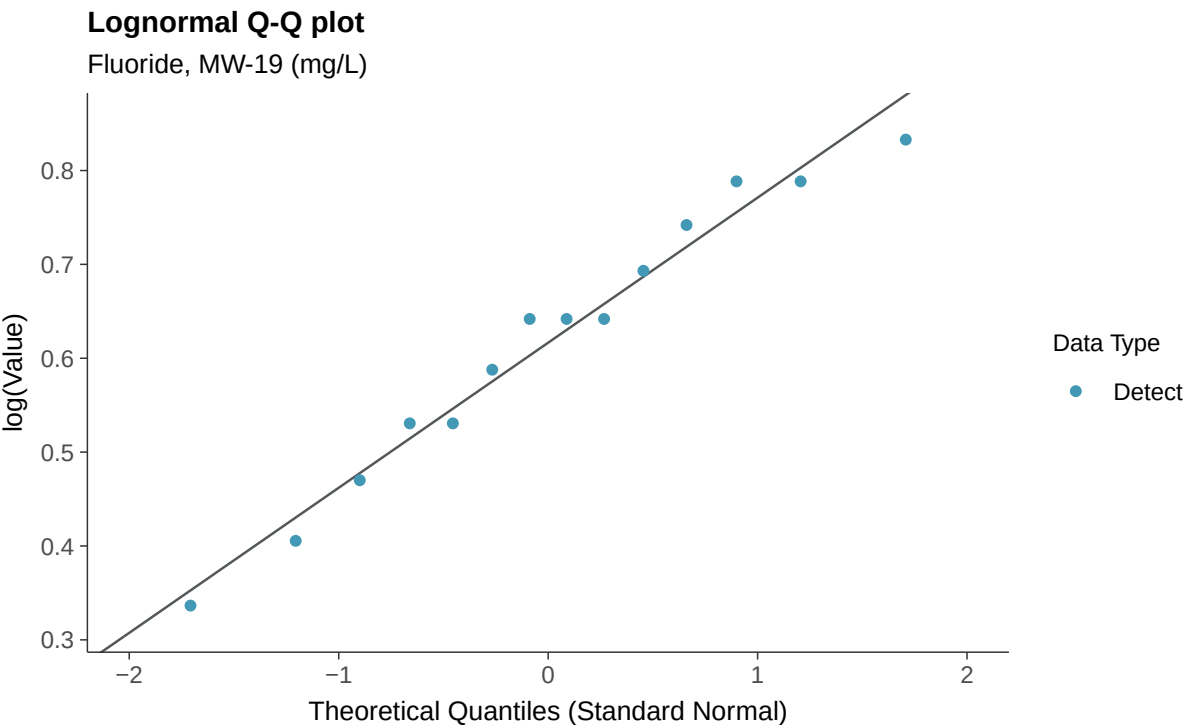
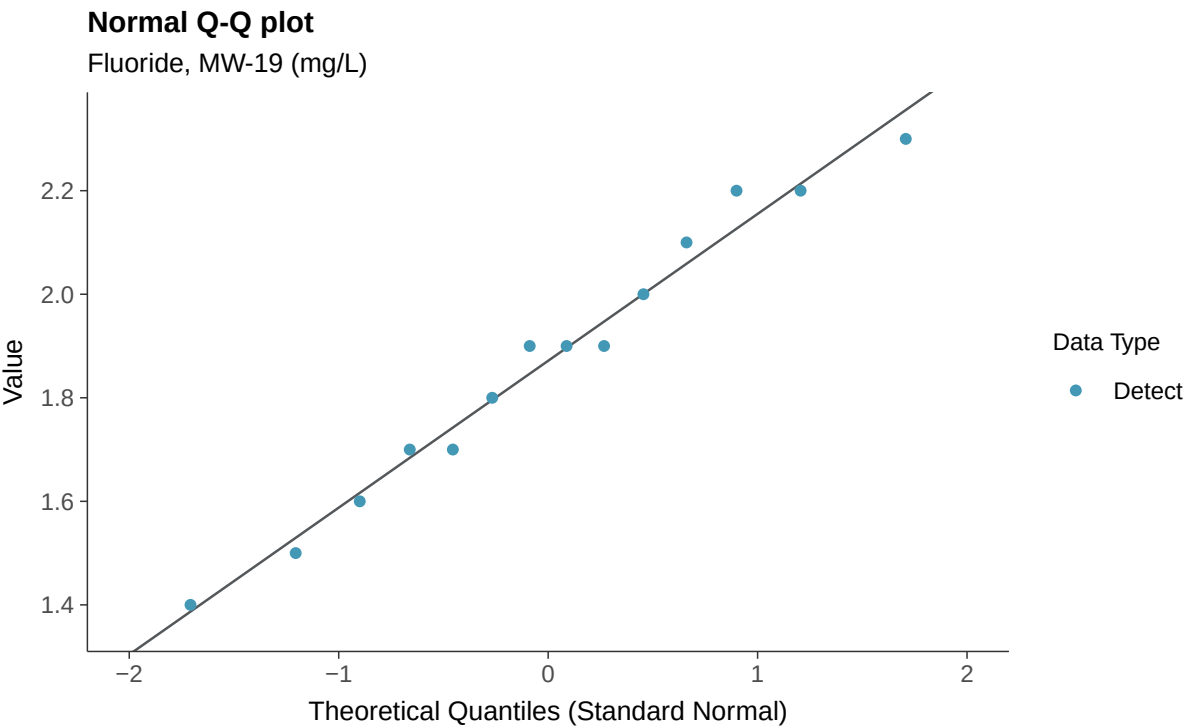


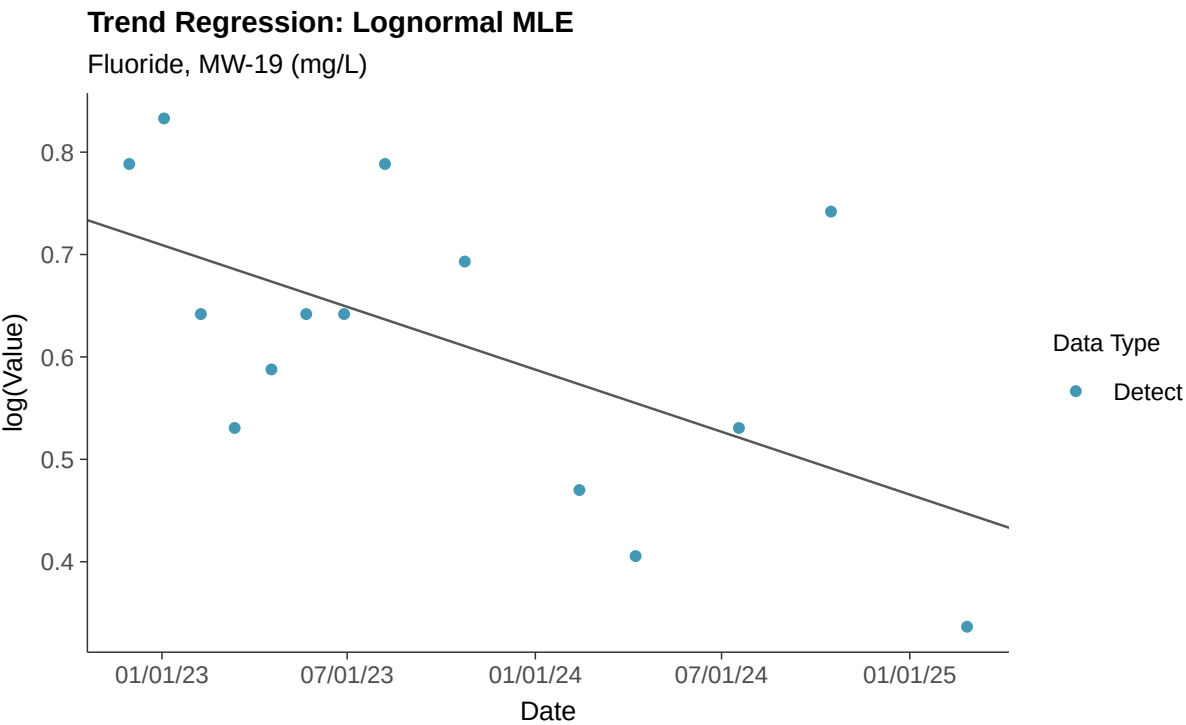
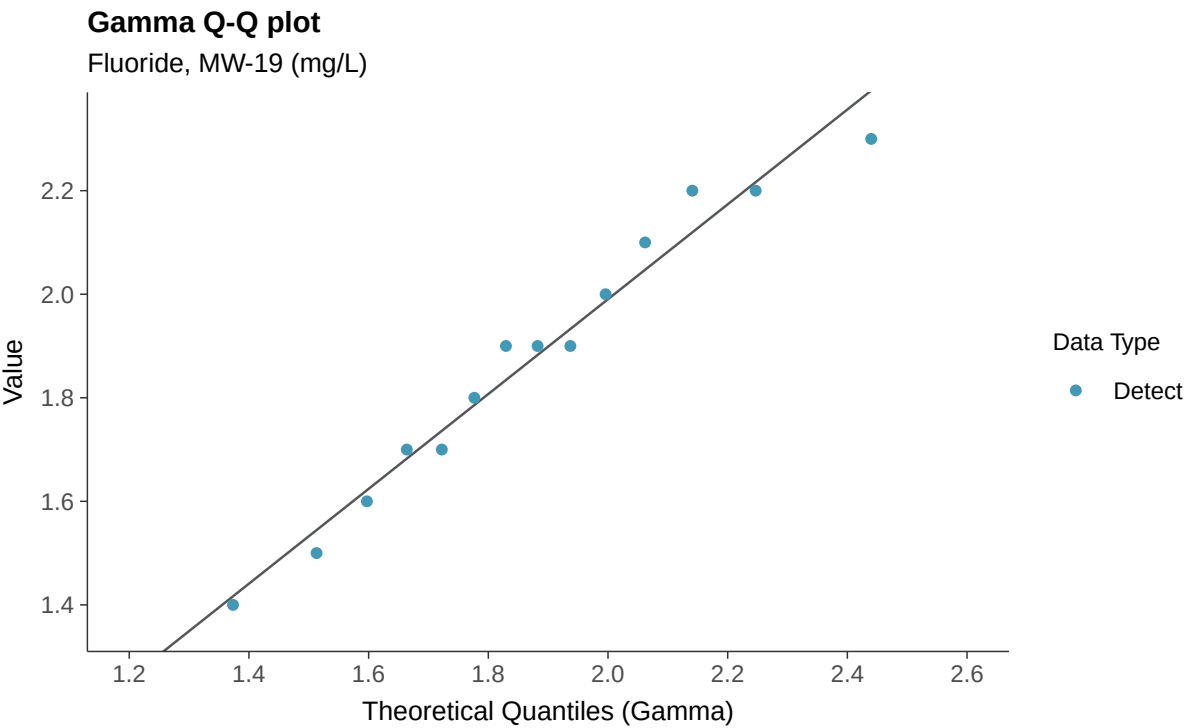
Appendix III: Fluoride, MW-19

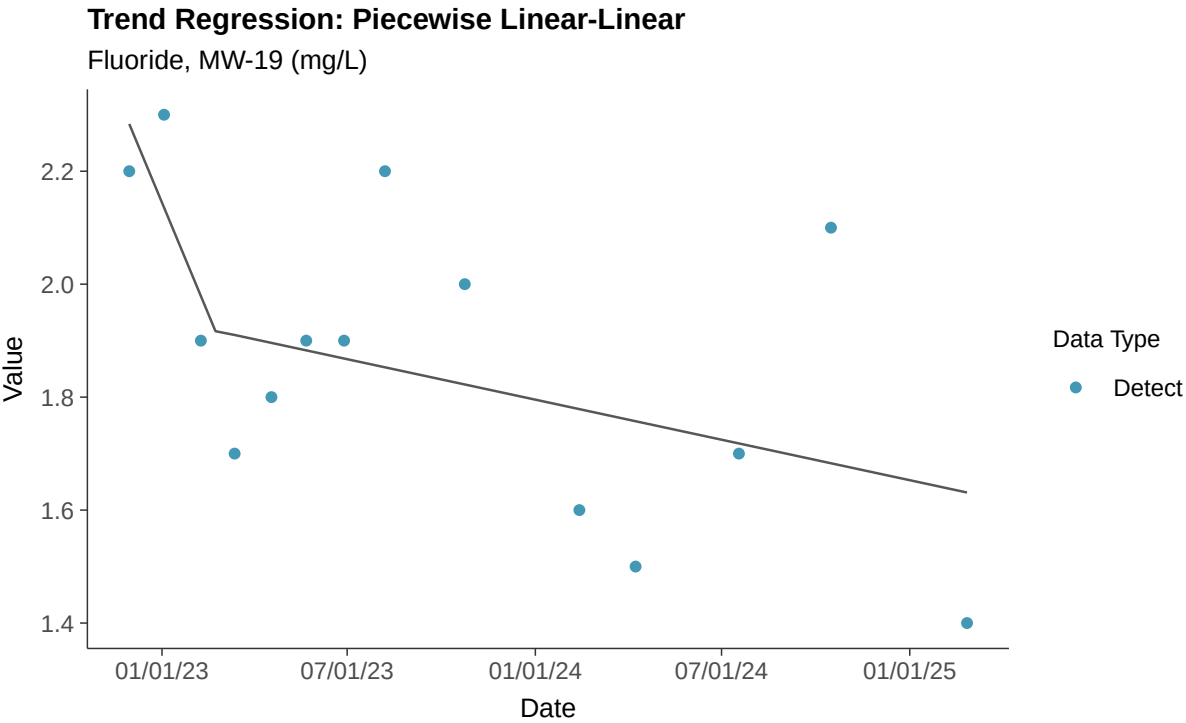
ID: 29_1_3_112







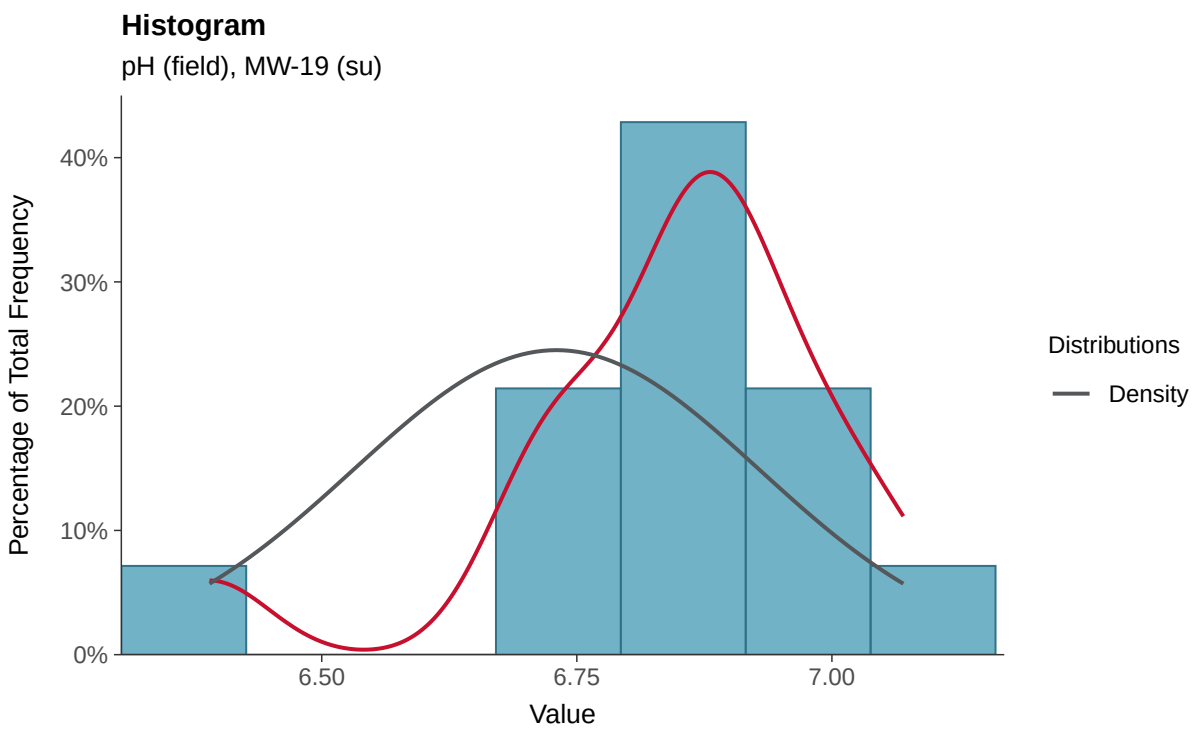
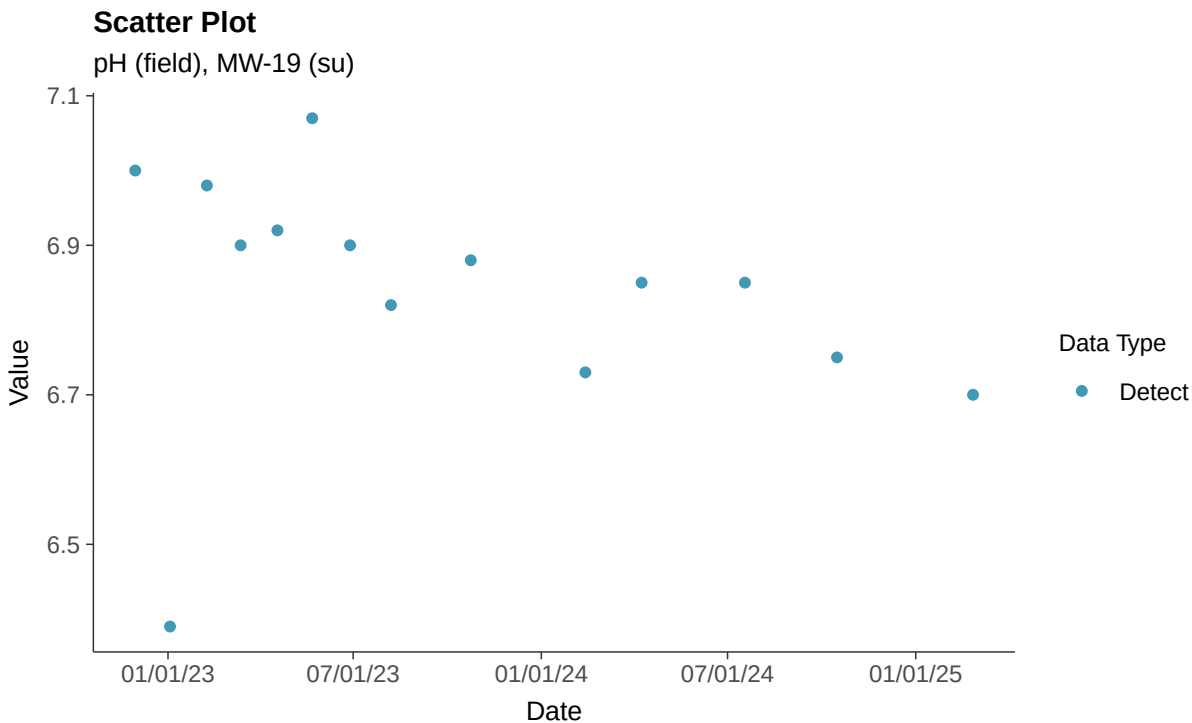


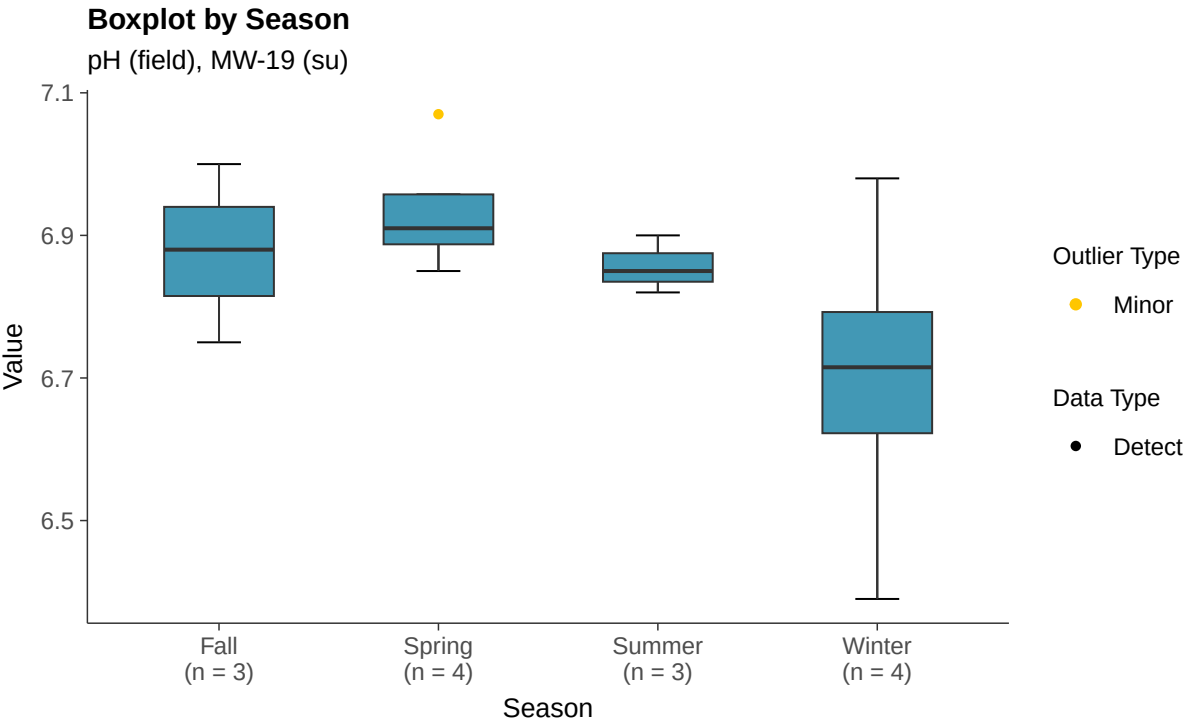
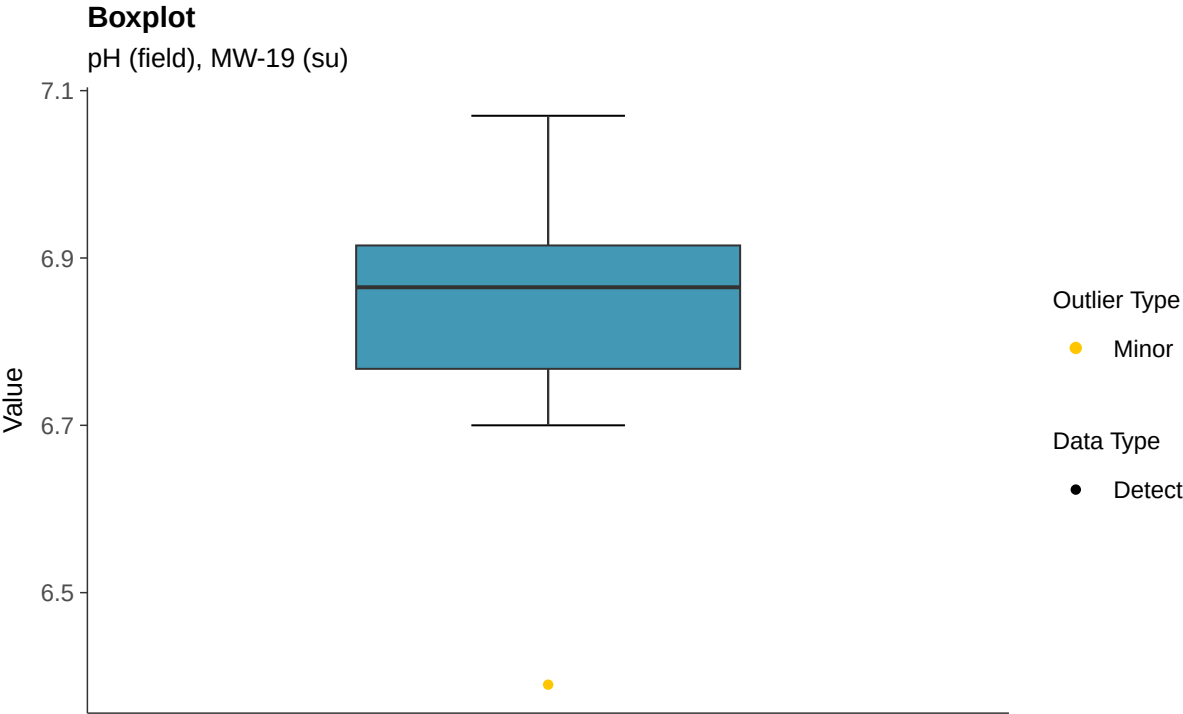


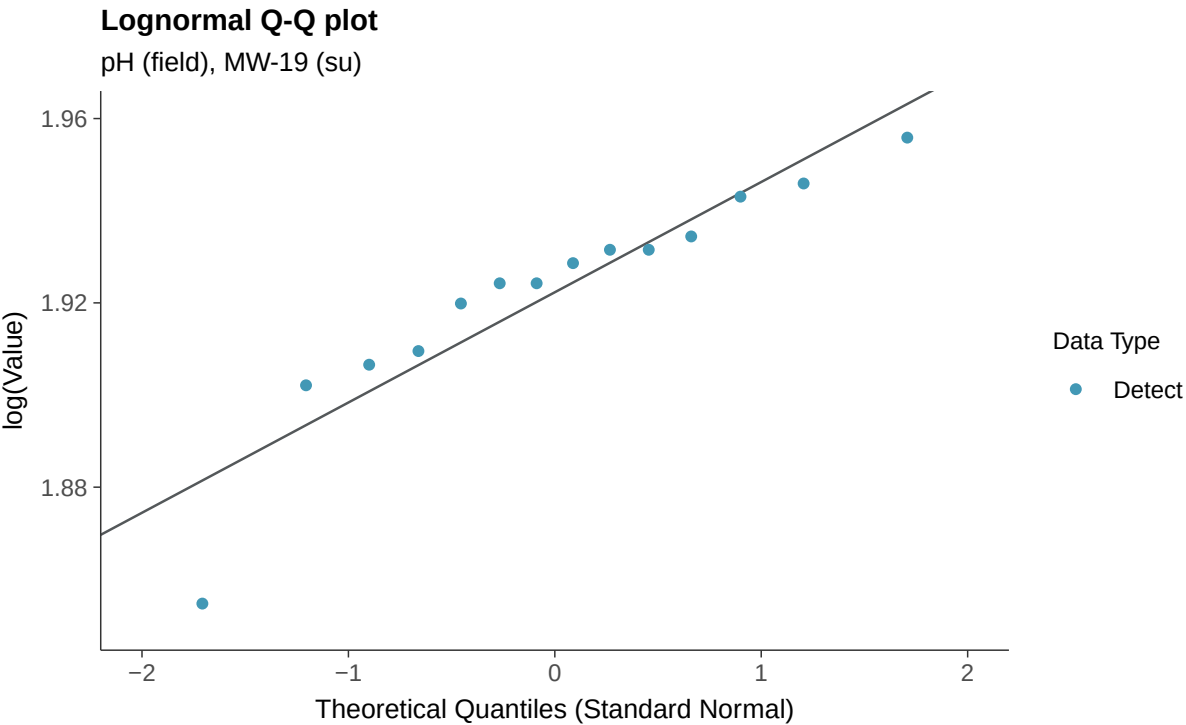
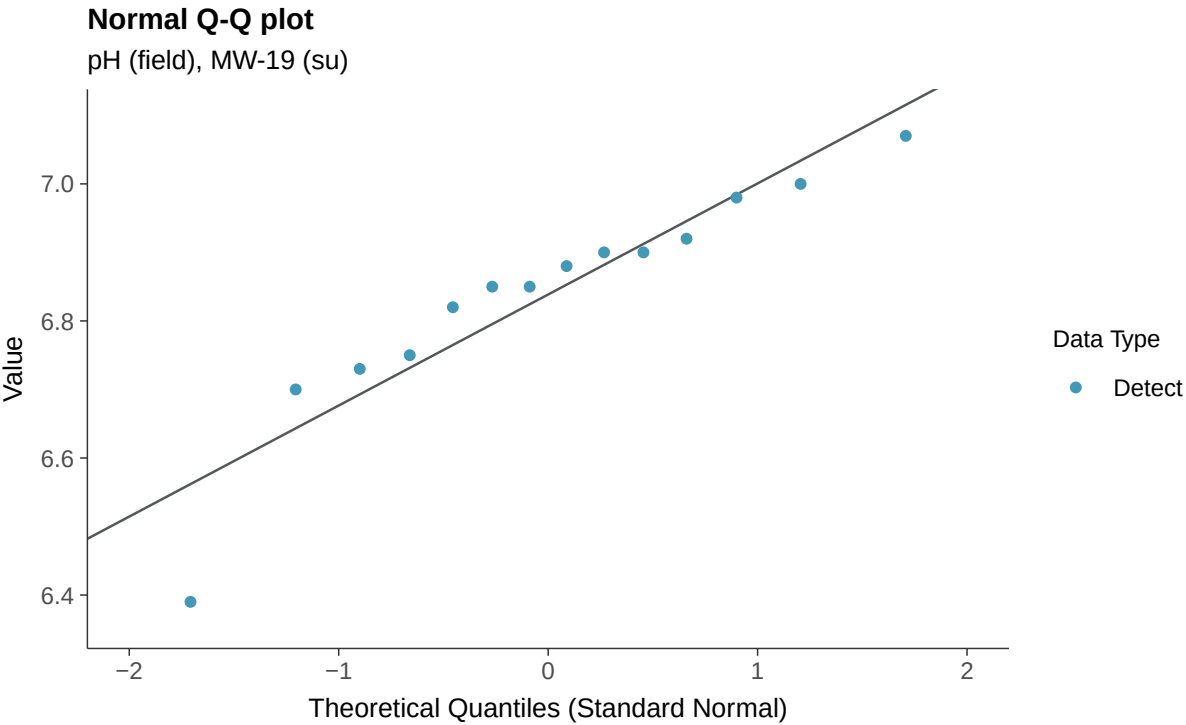


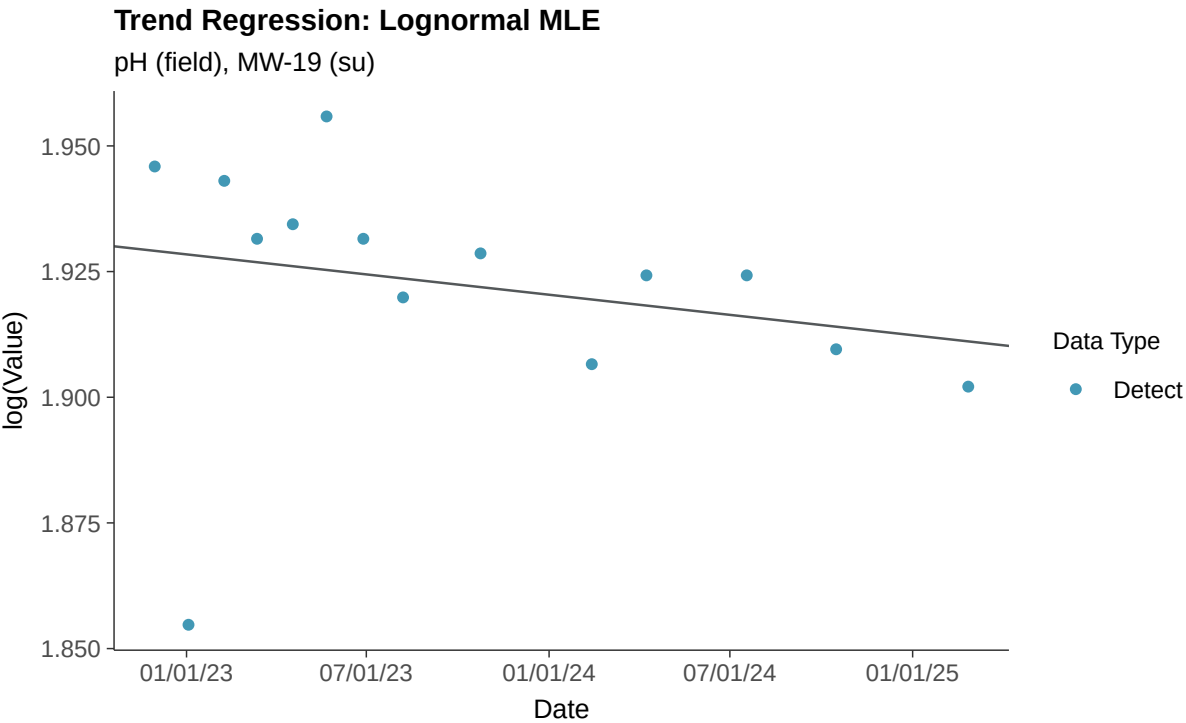
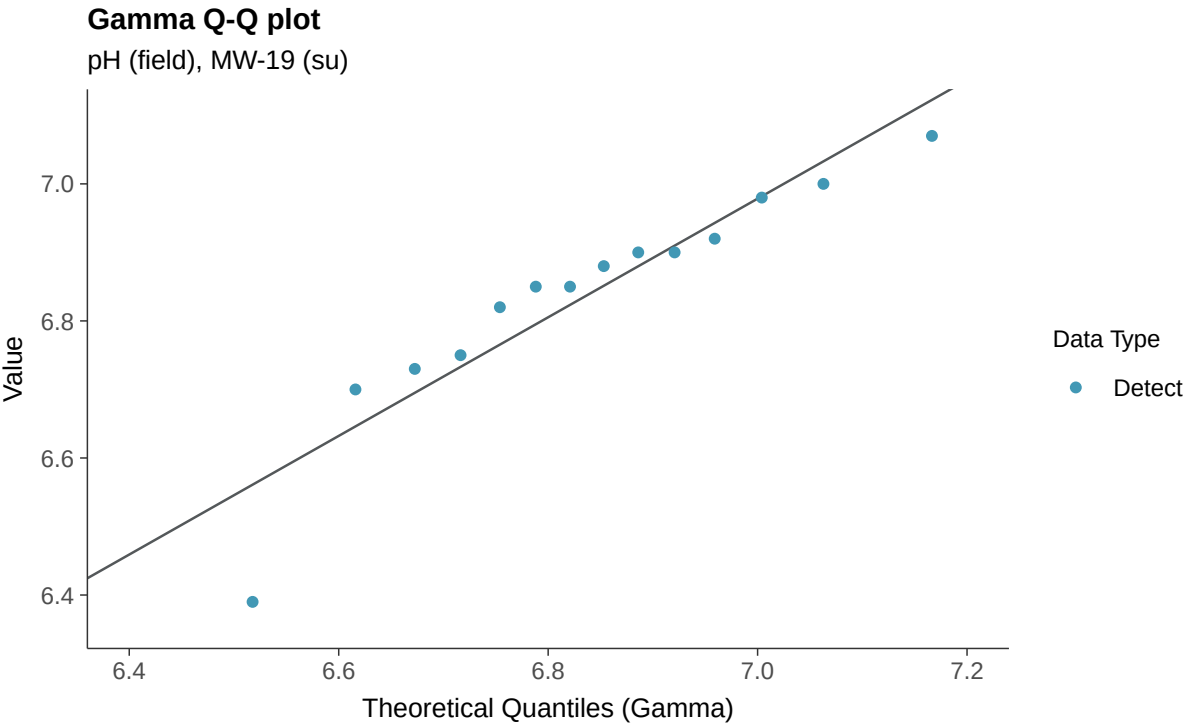
Appendix III: pH (field), MW-19

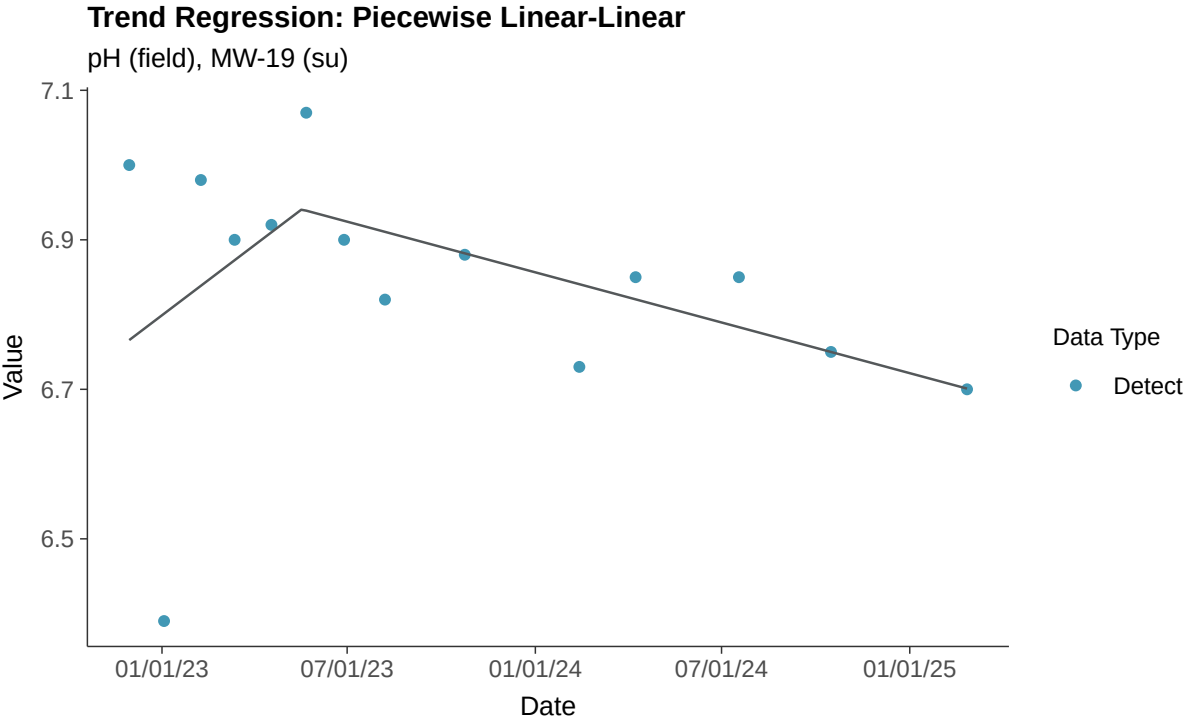
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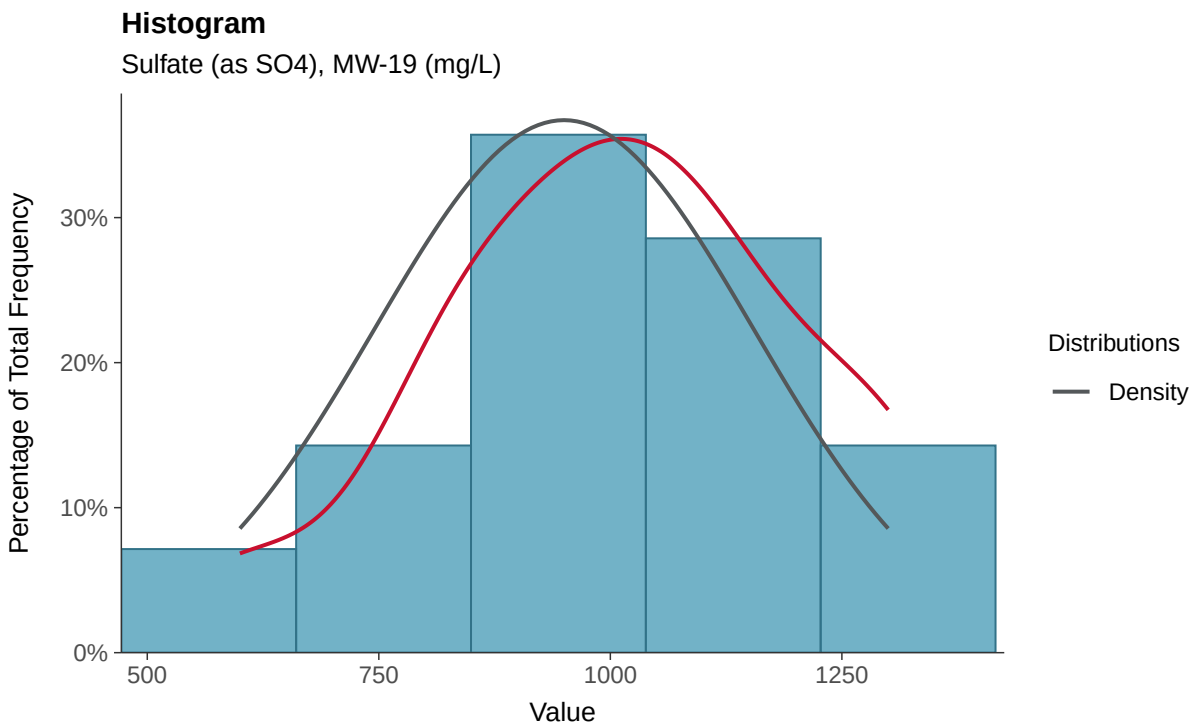
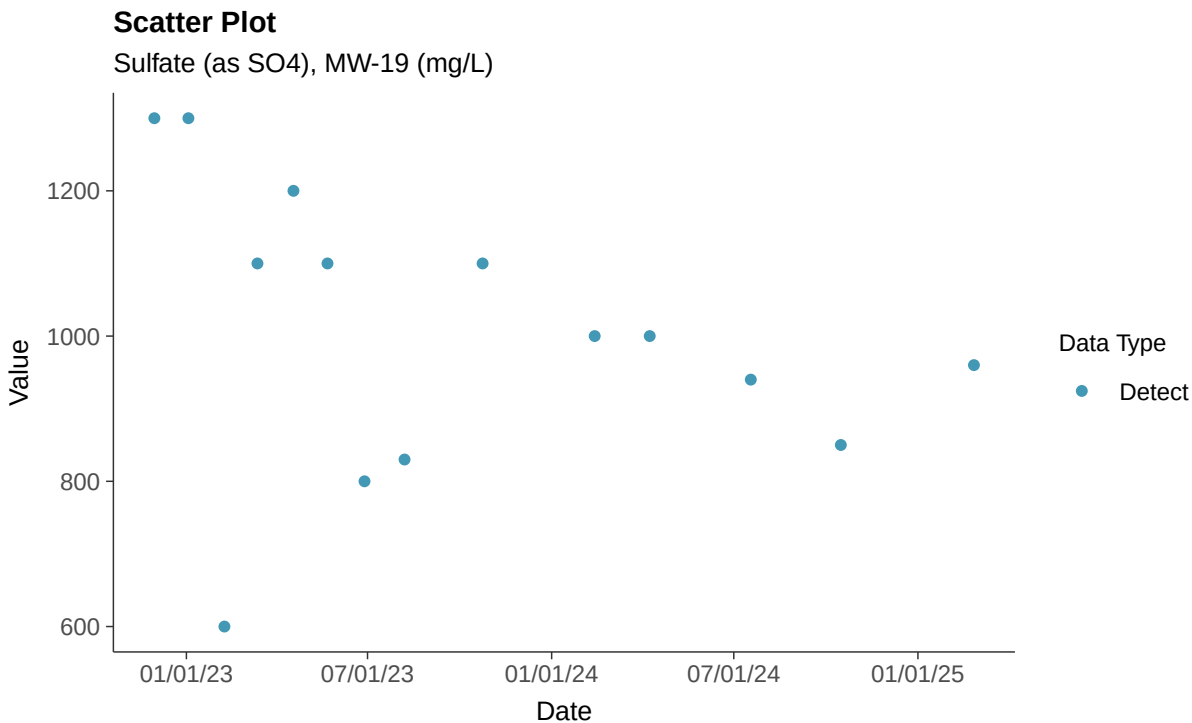


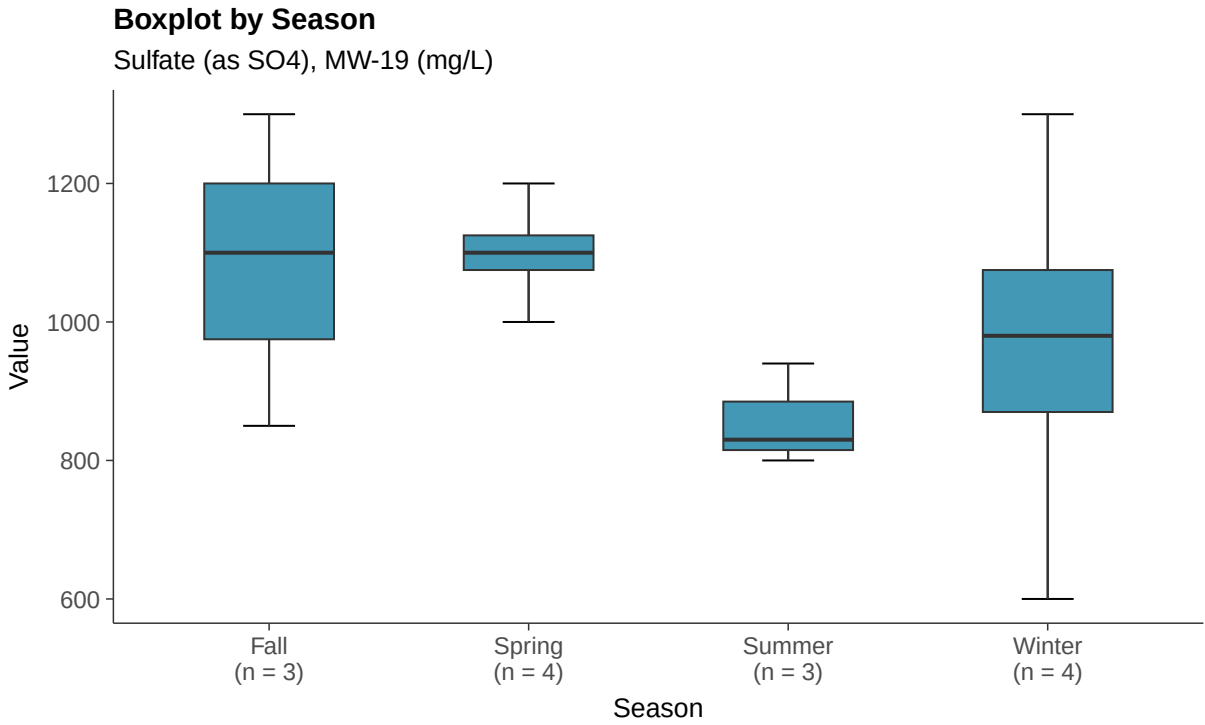
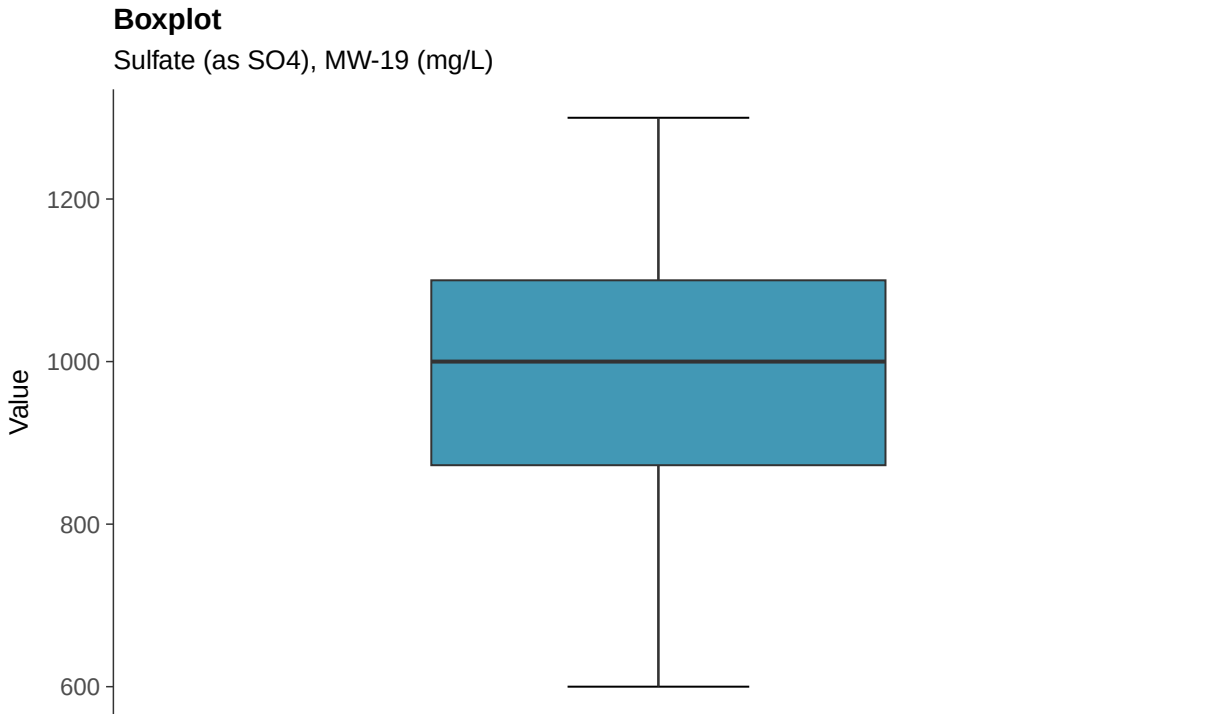


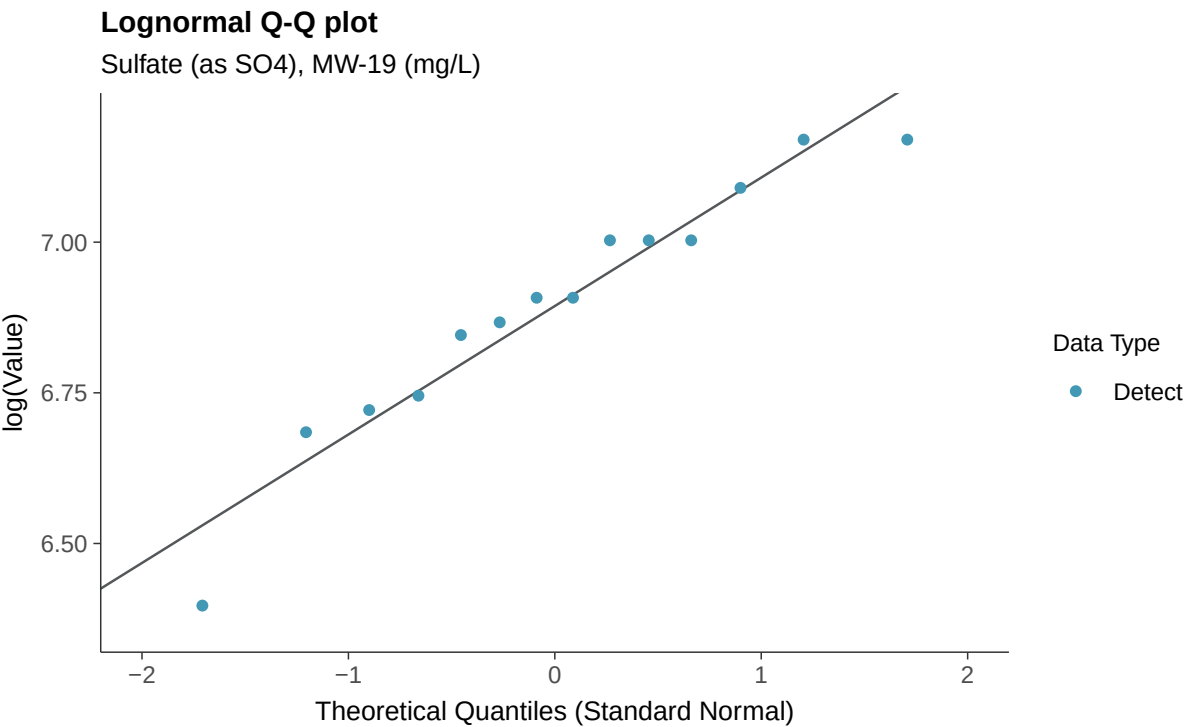
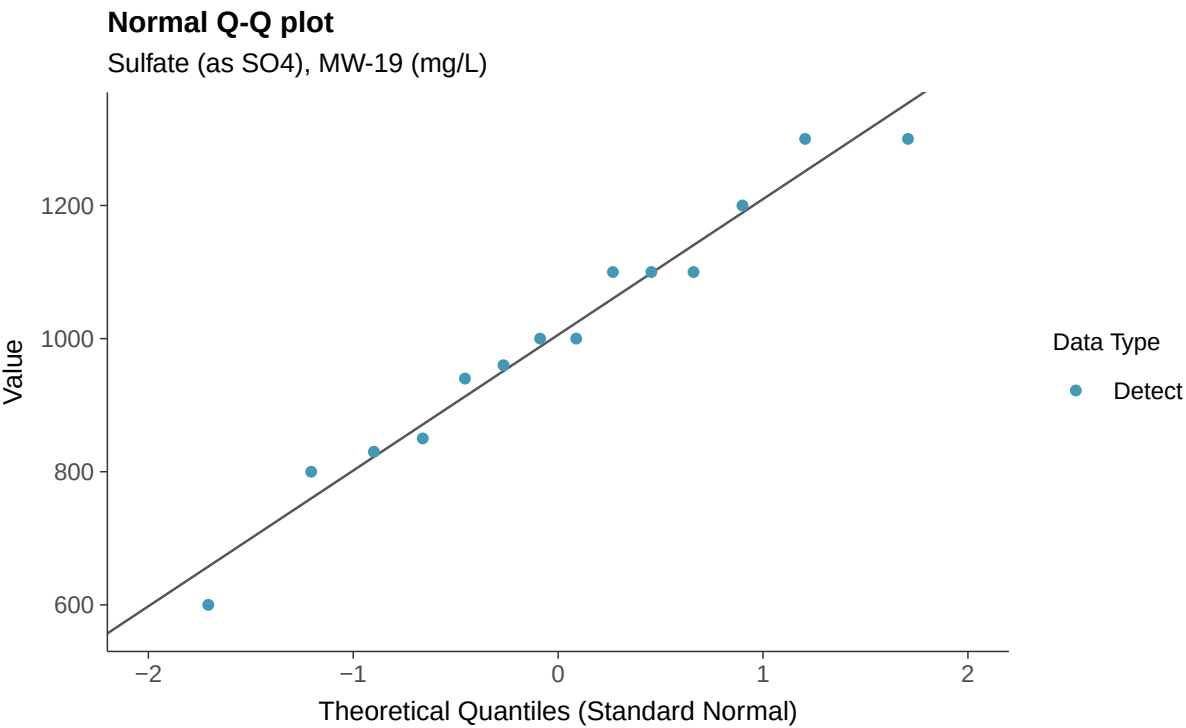


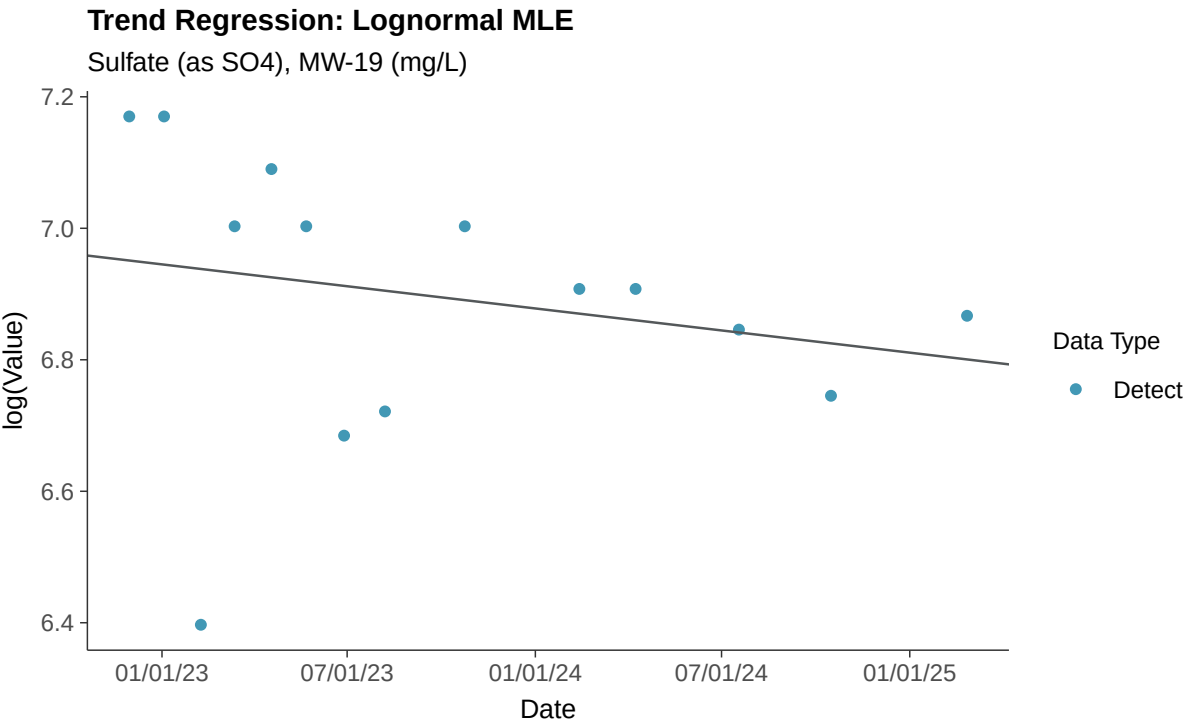
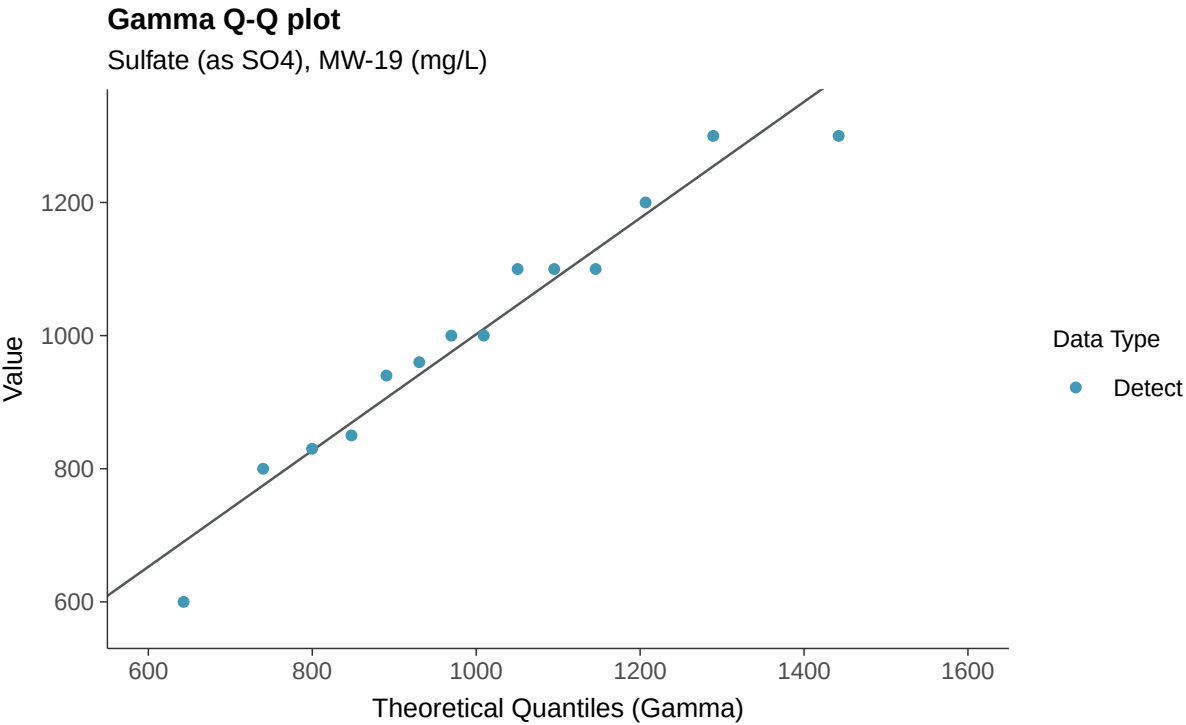
Appendix III: Sulfate (as SO₄), MW-19

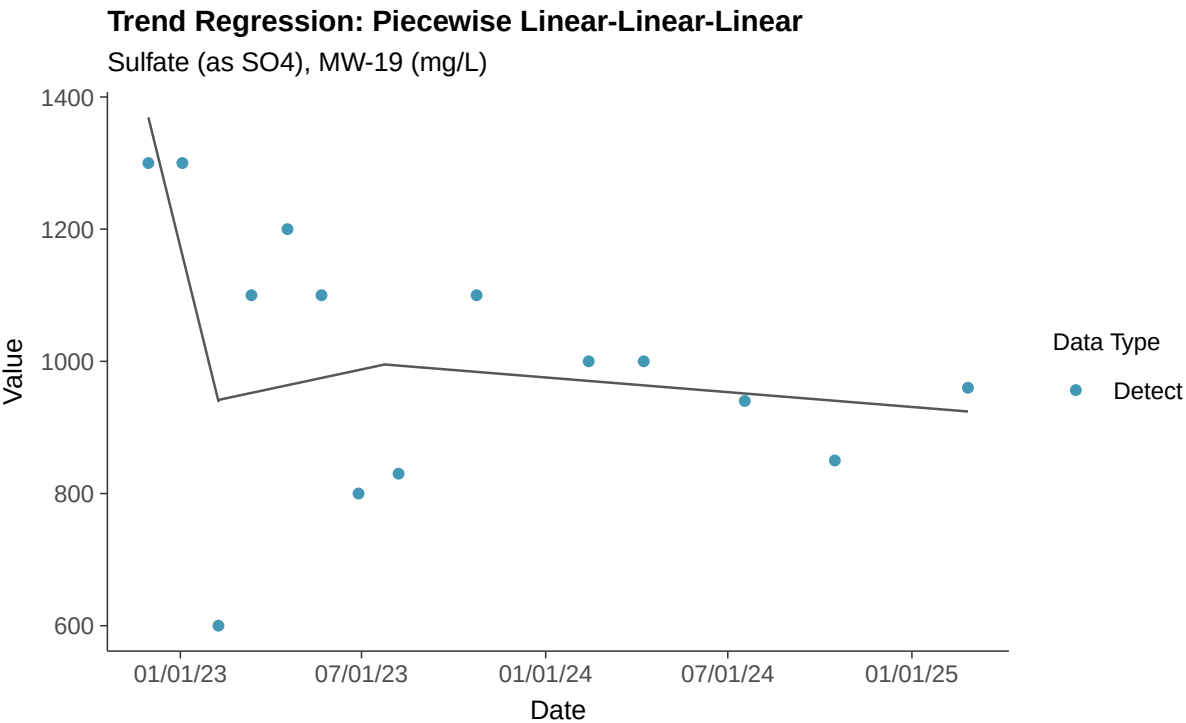
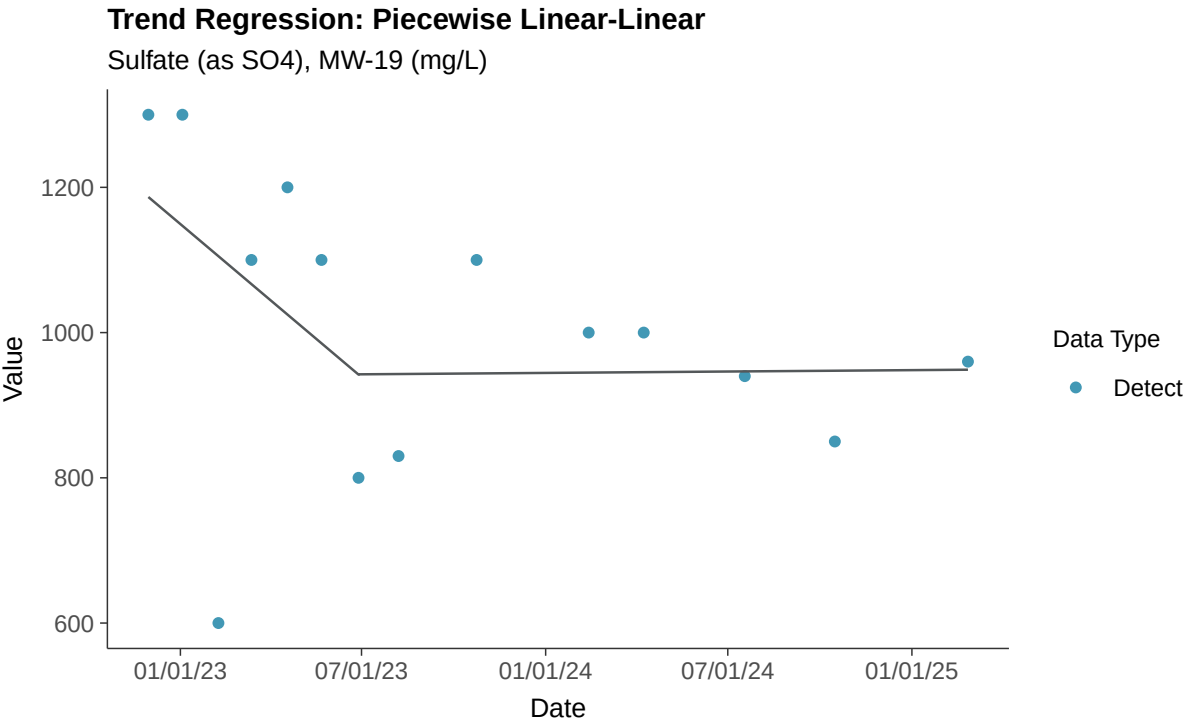
ID: 29_1_3_124







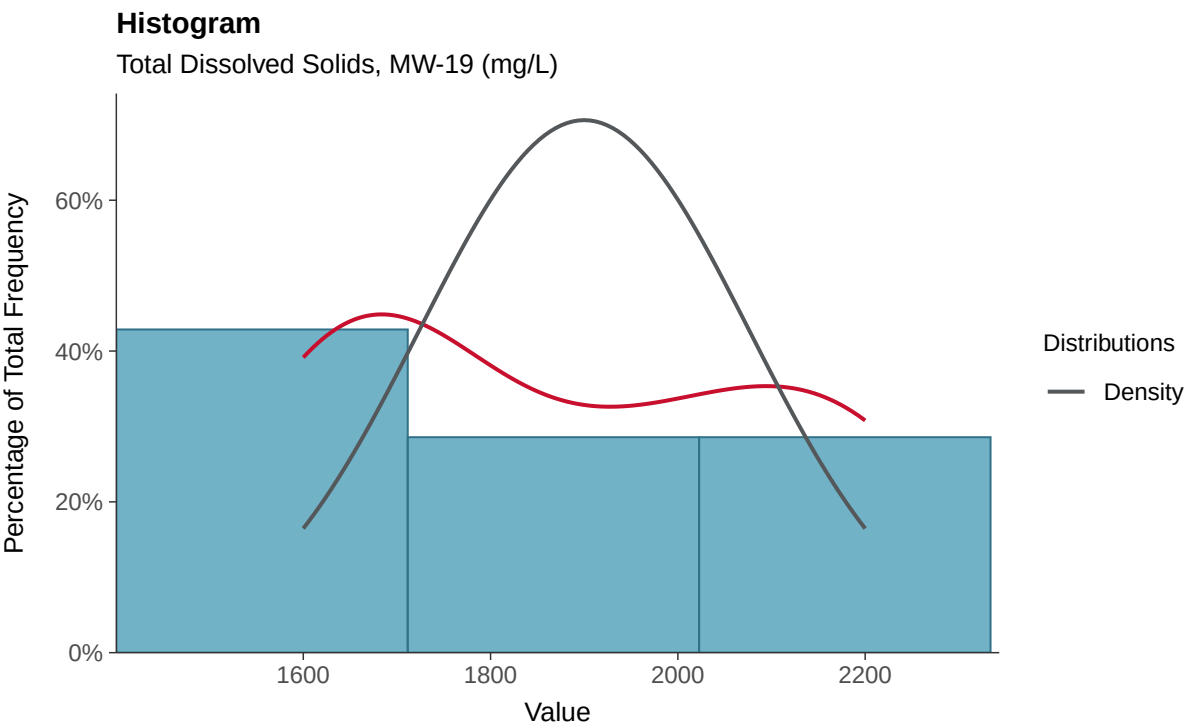
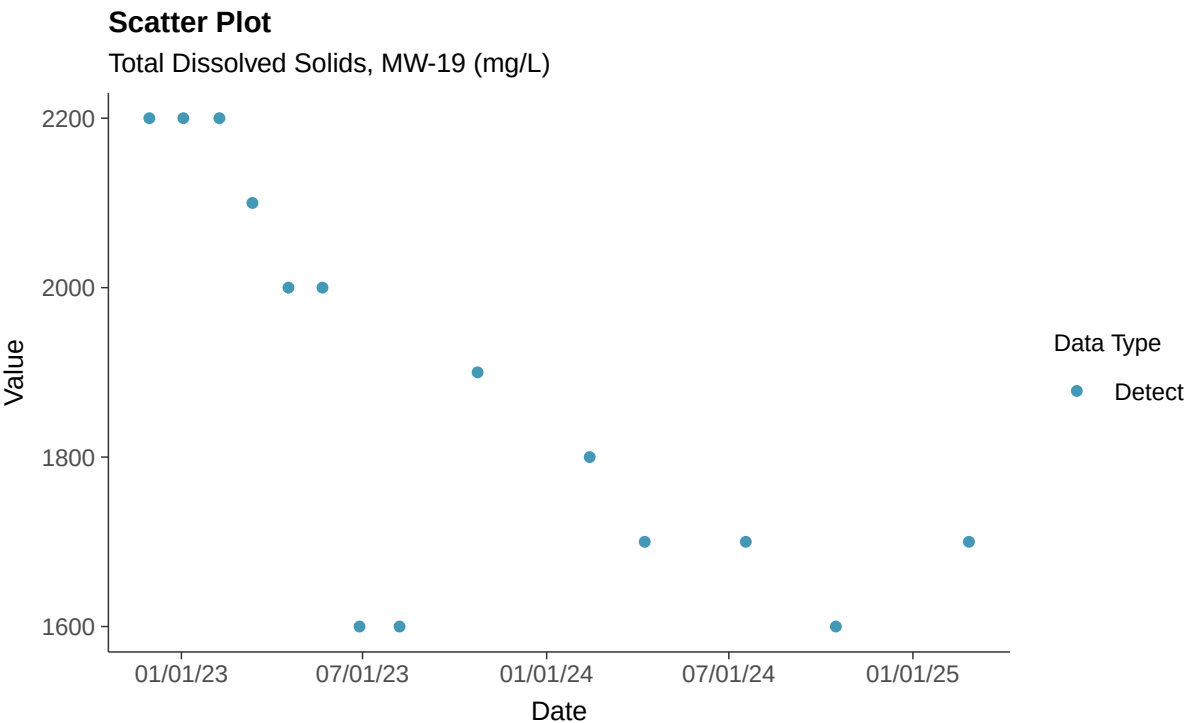


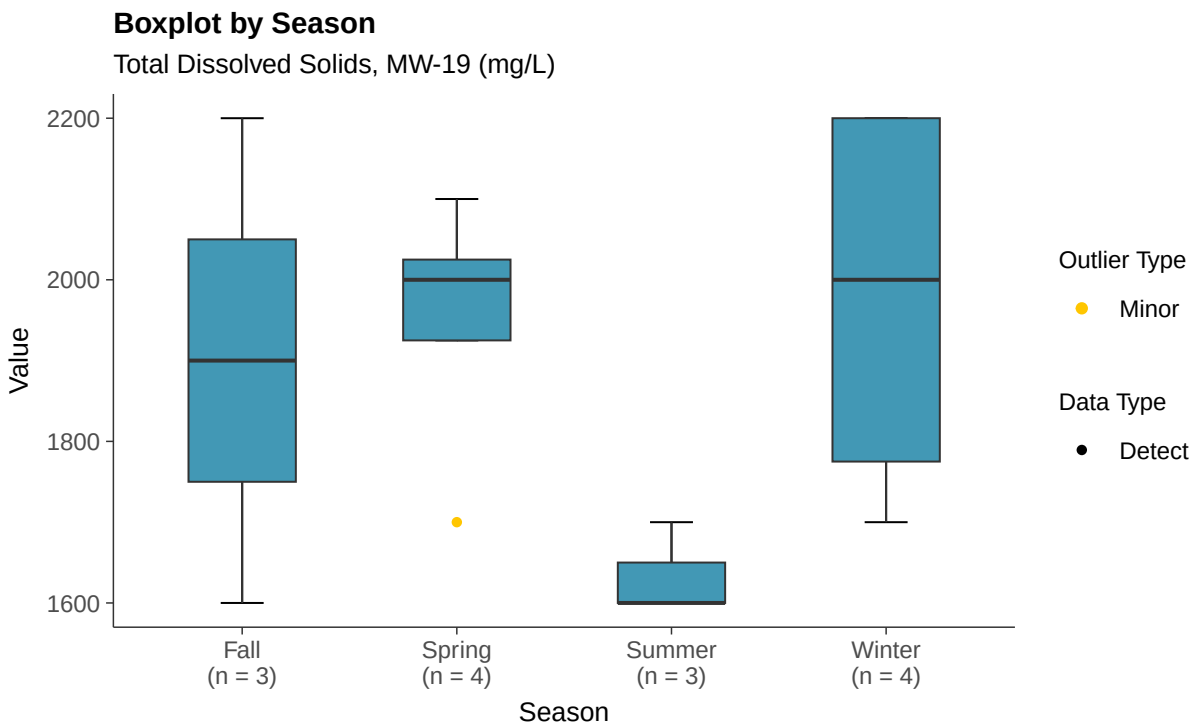
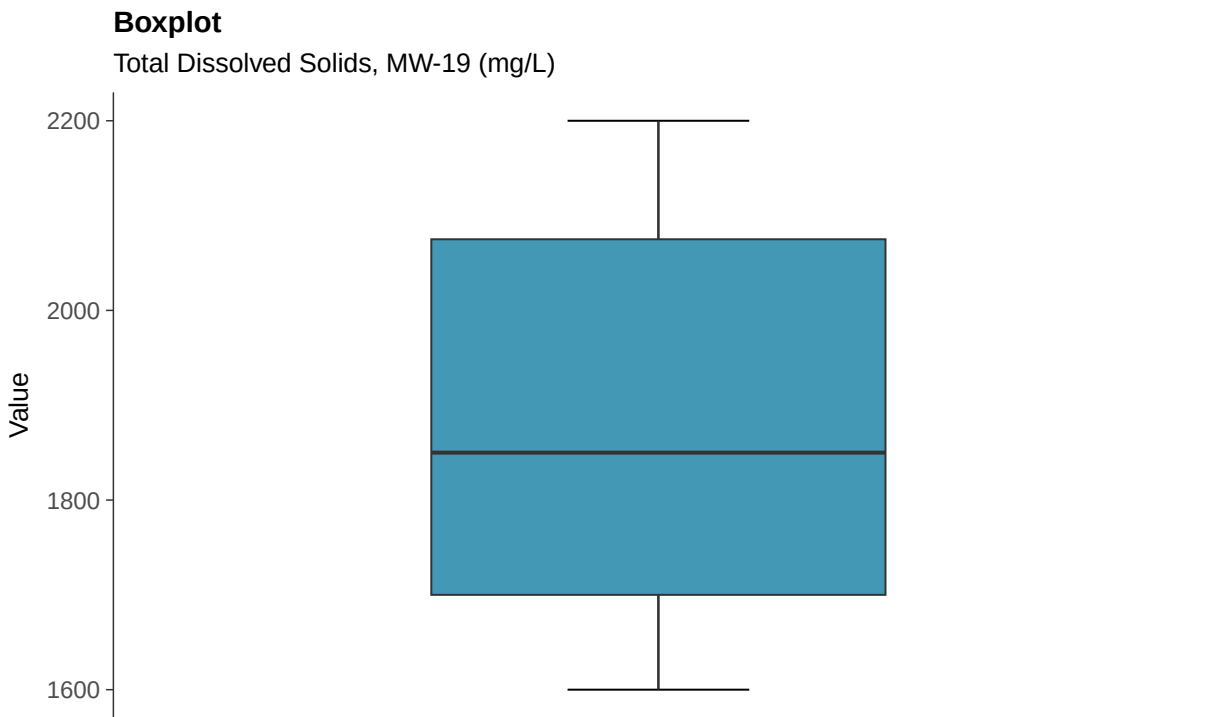


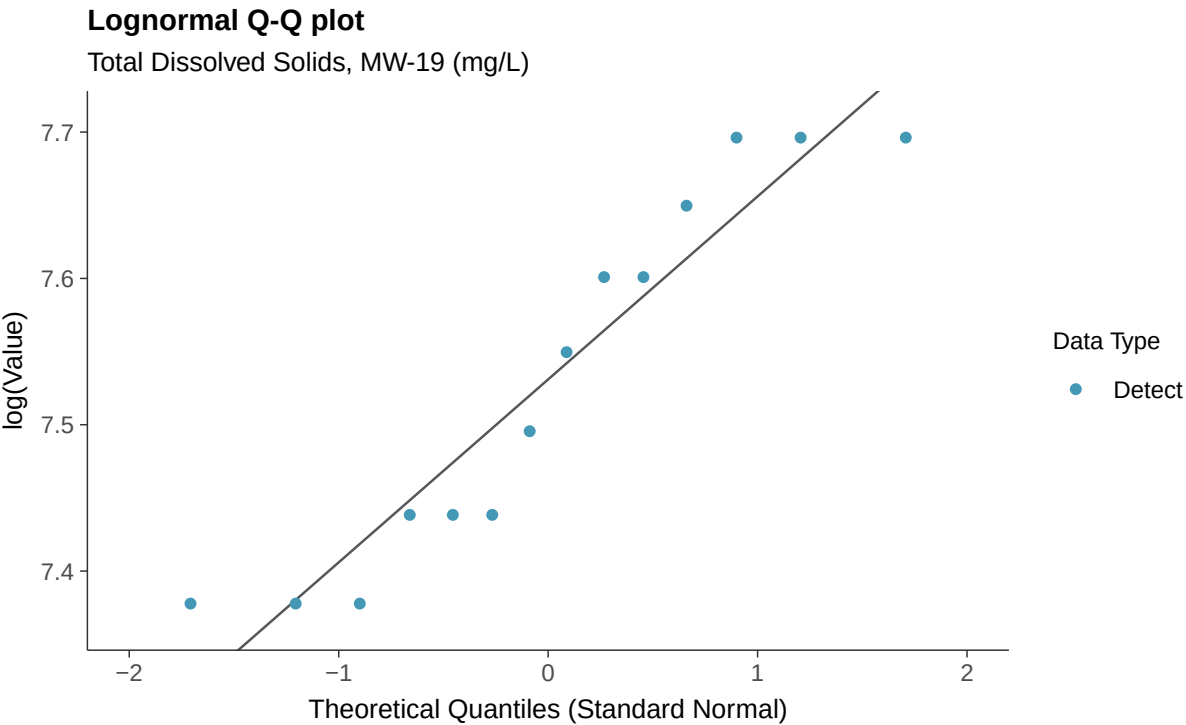
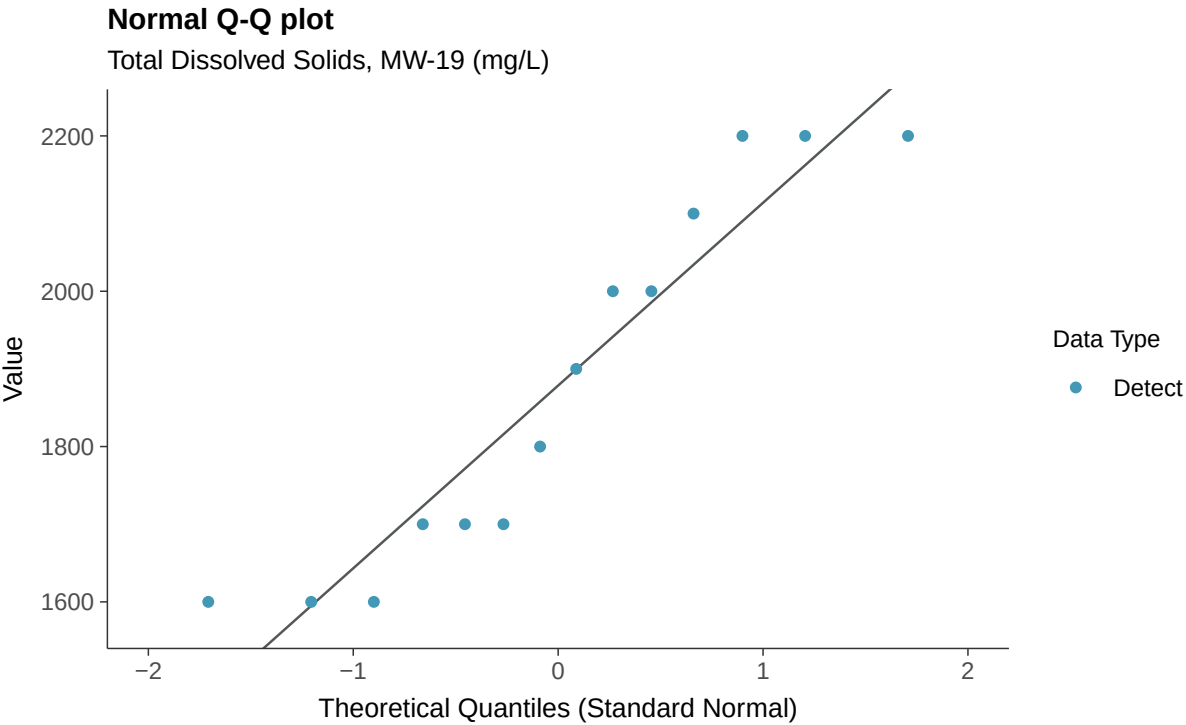


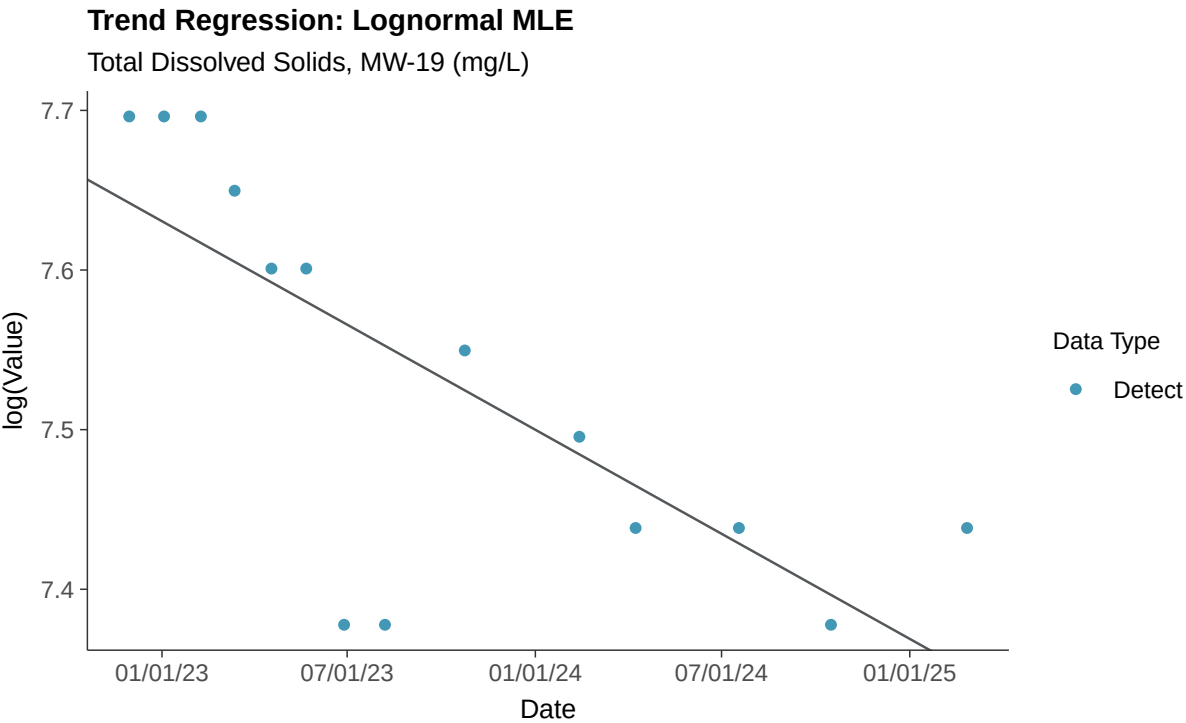
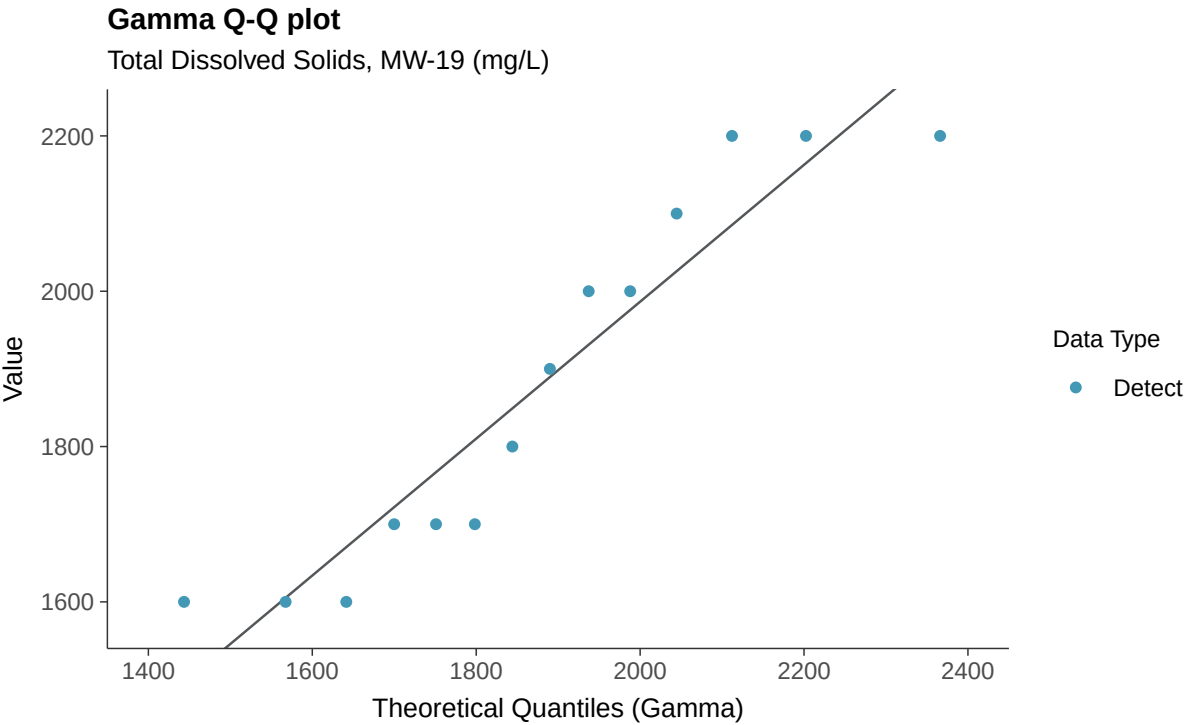
Appendix III: Total Dissolved Solids, MW-19

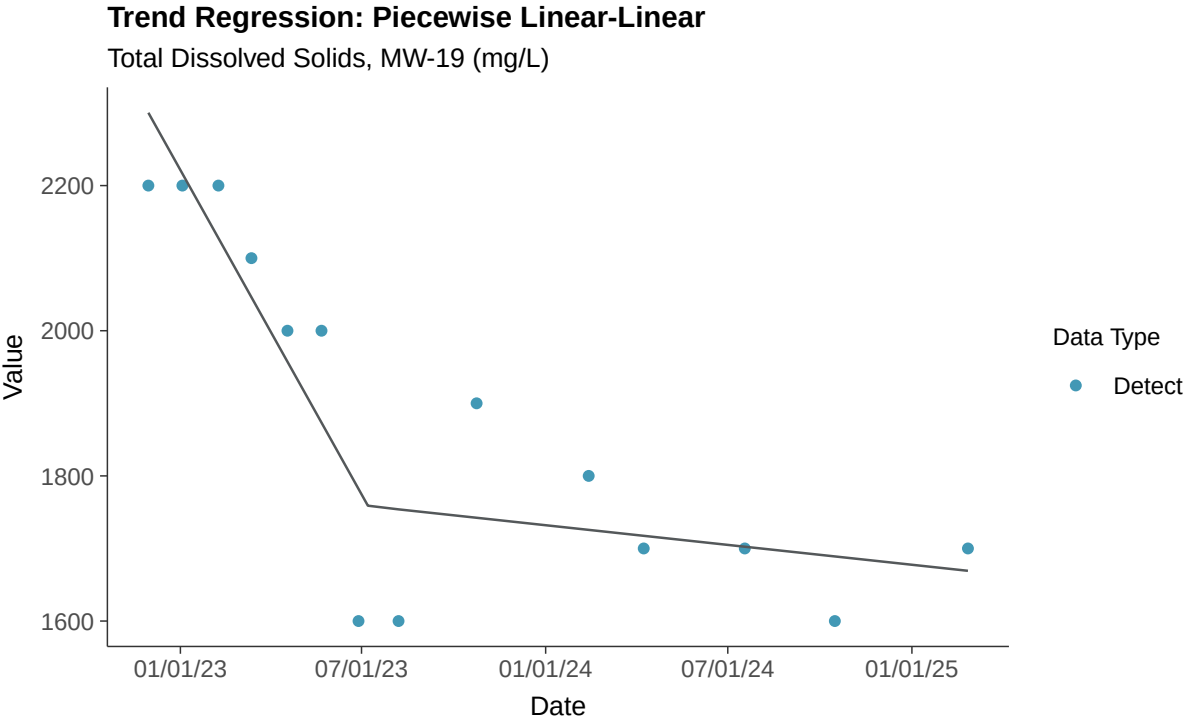
ID: 29_1_3_126







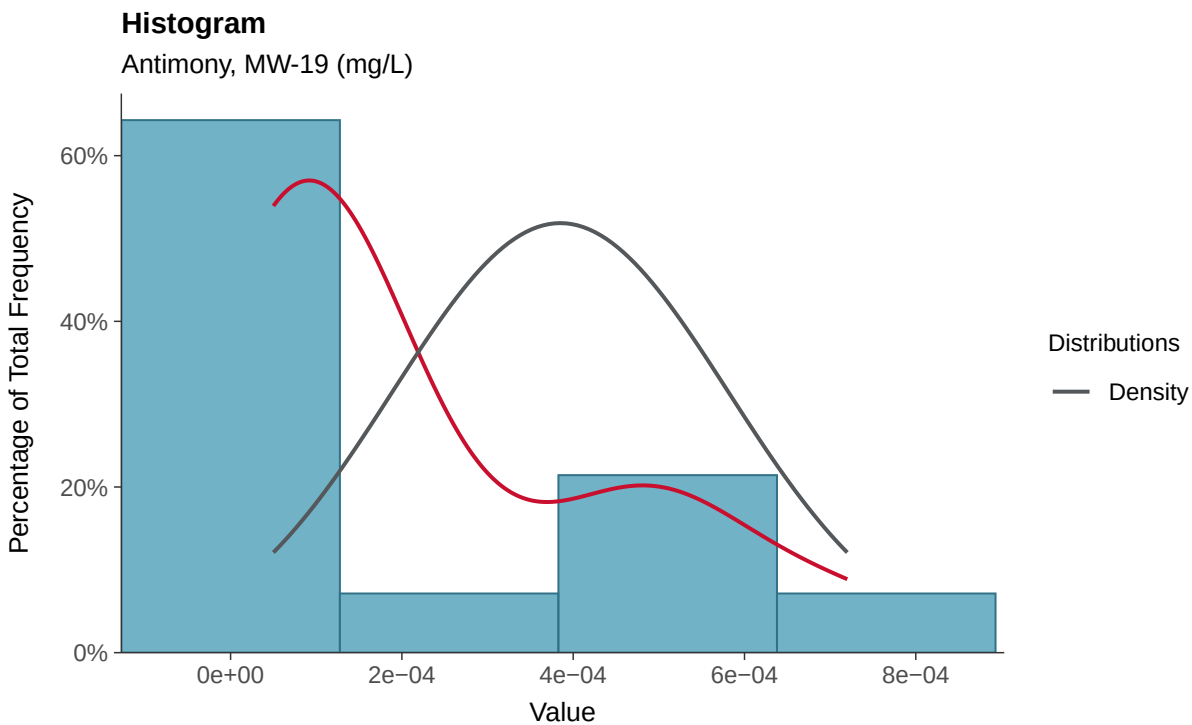
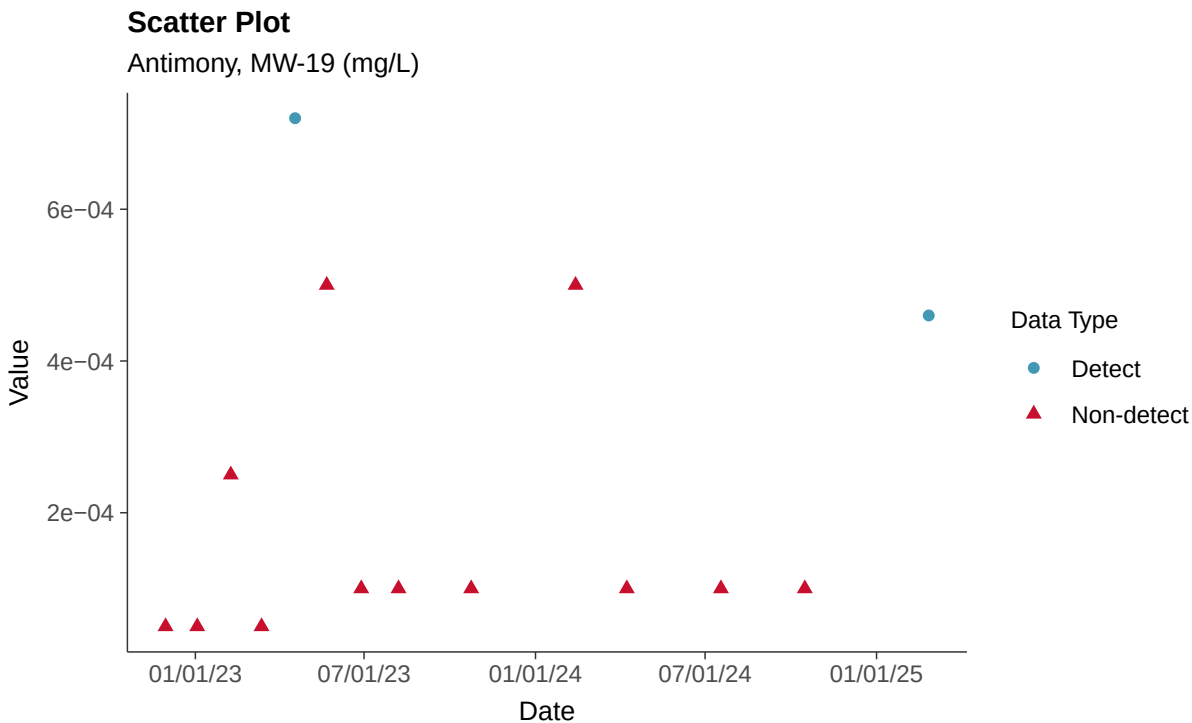


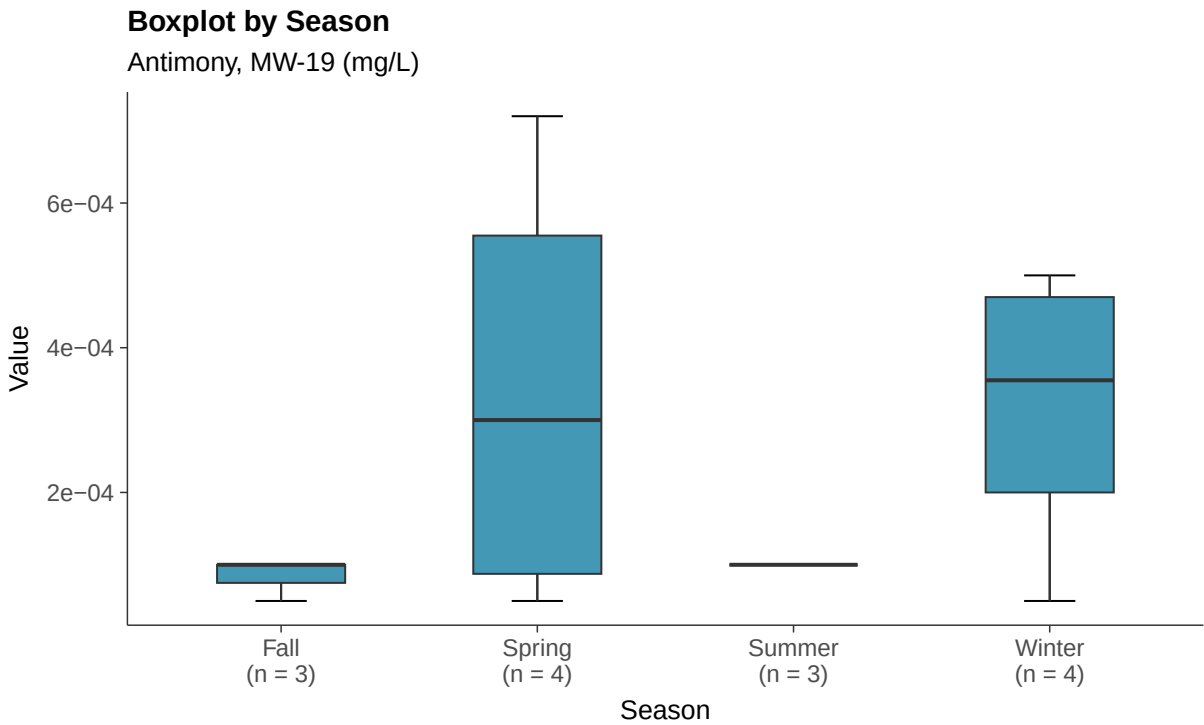
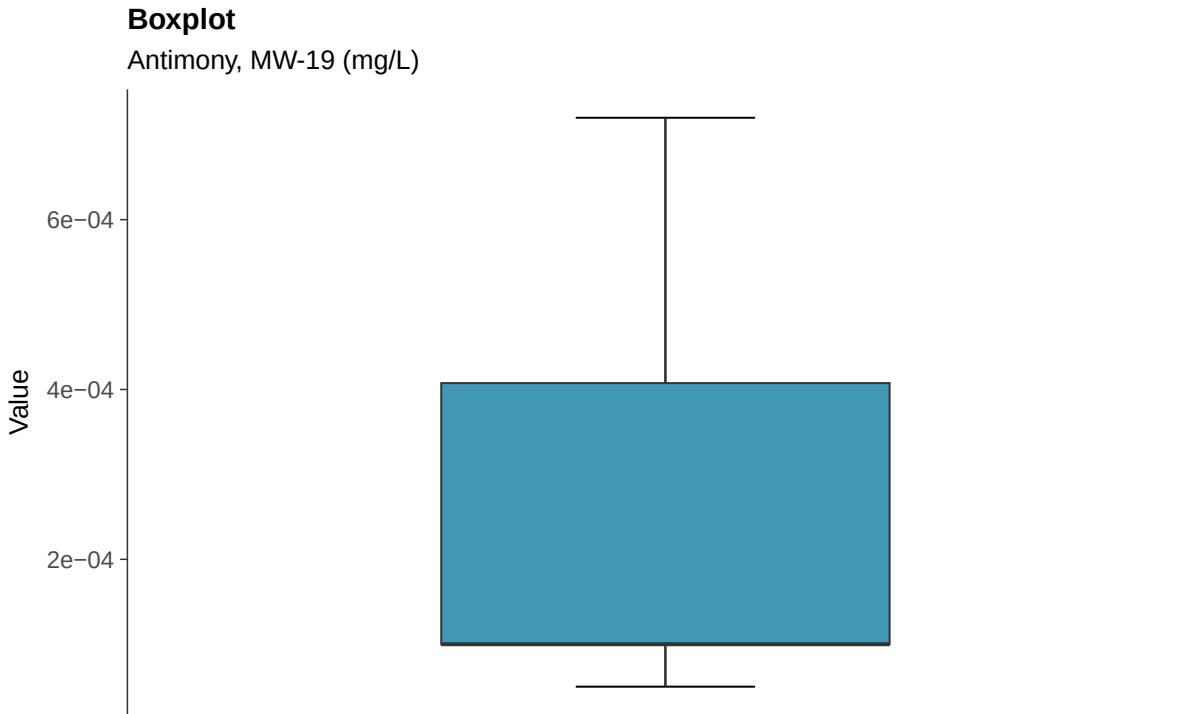




Appendix IV: Antimony, MW-19

ID: 29_1_4_101

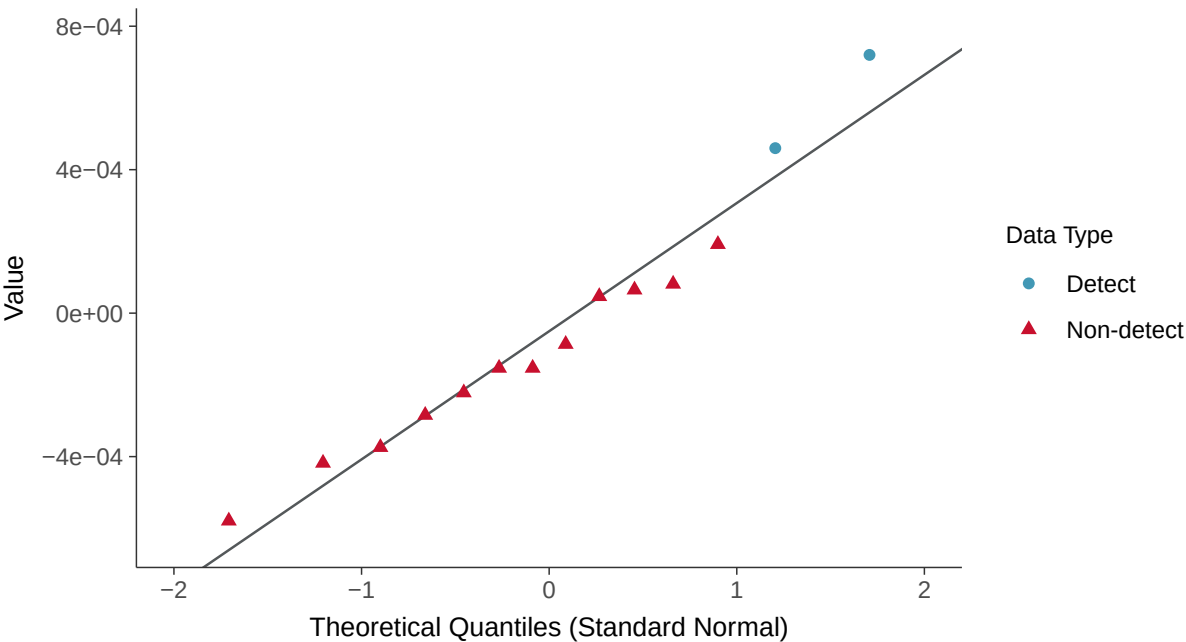






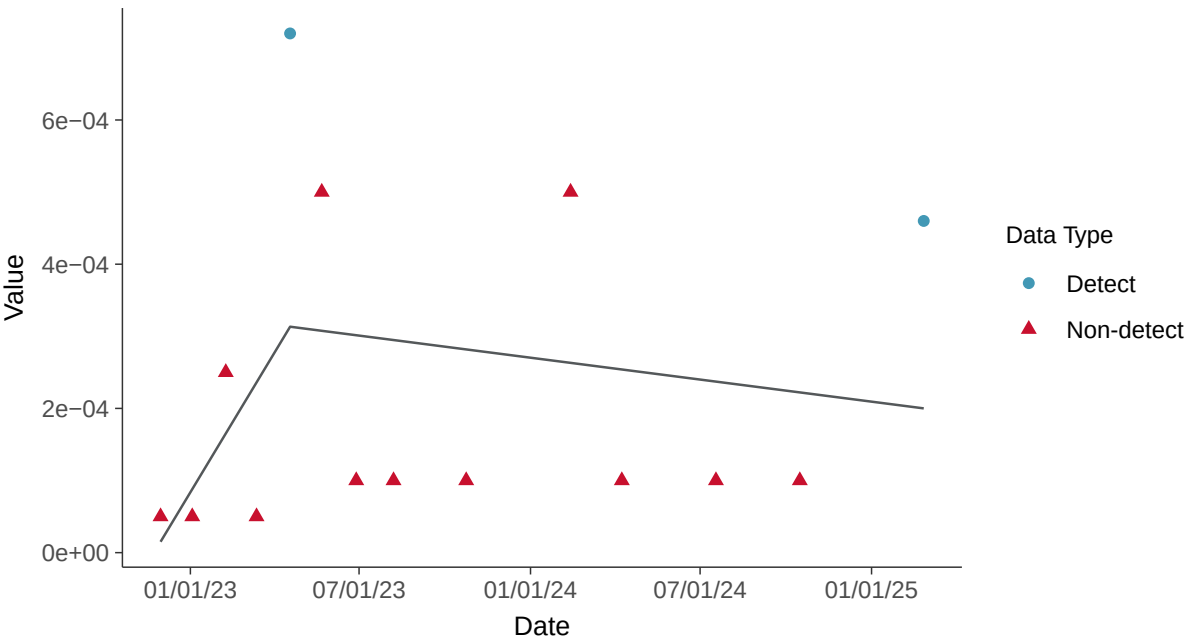
Normal Q-Q plot using ROS Imputed Estimates

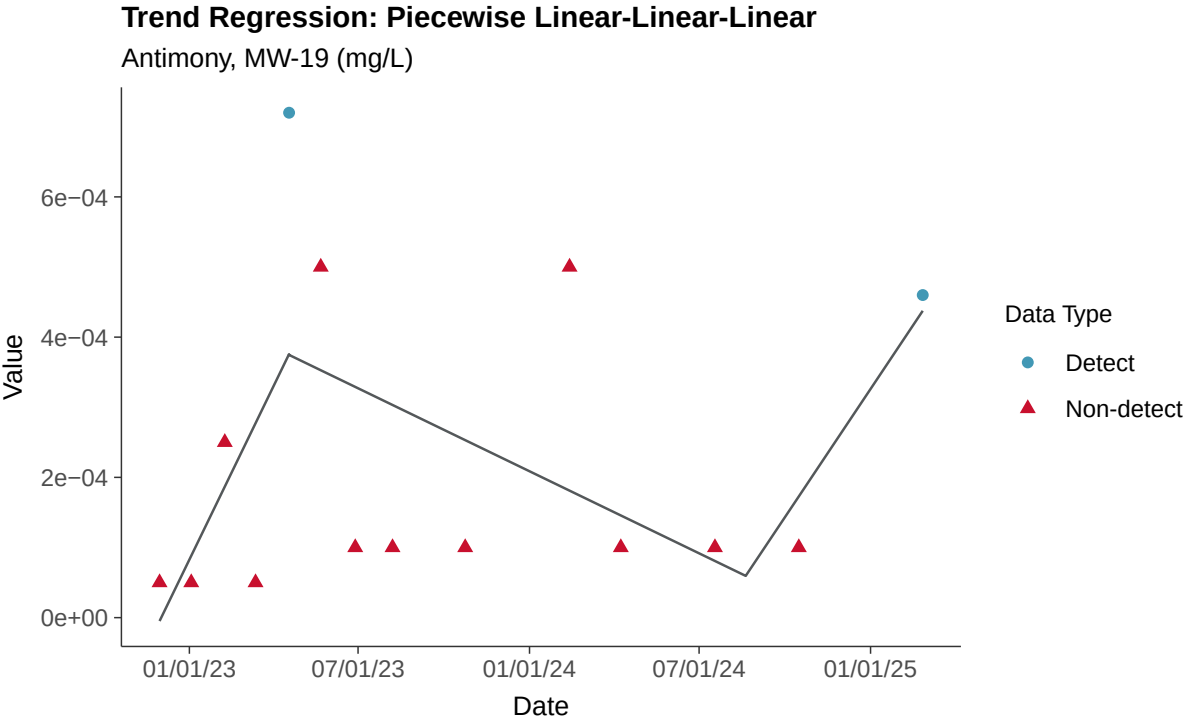
Antimony, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-19 (mg/L)

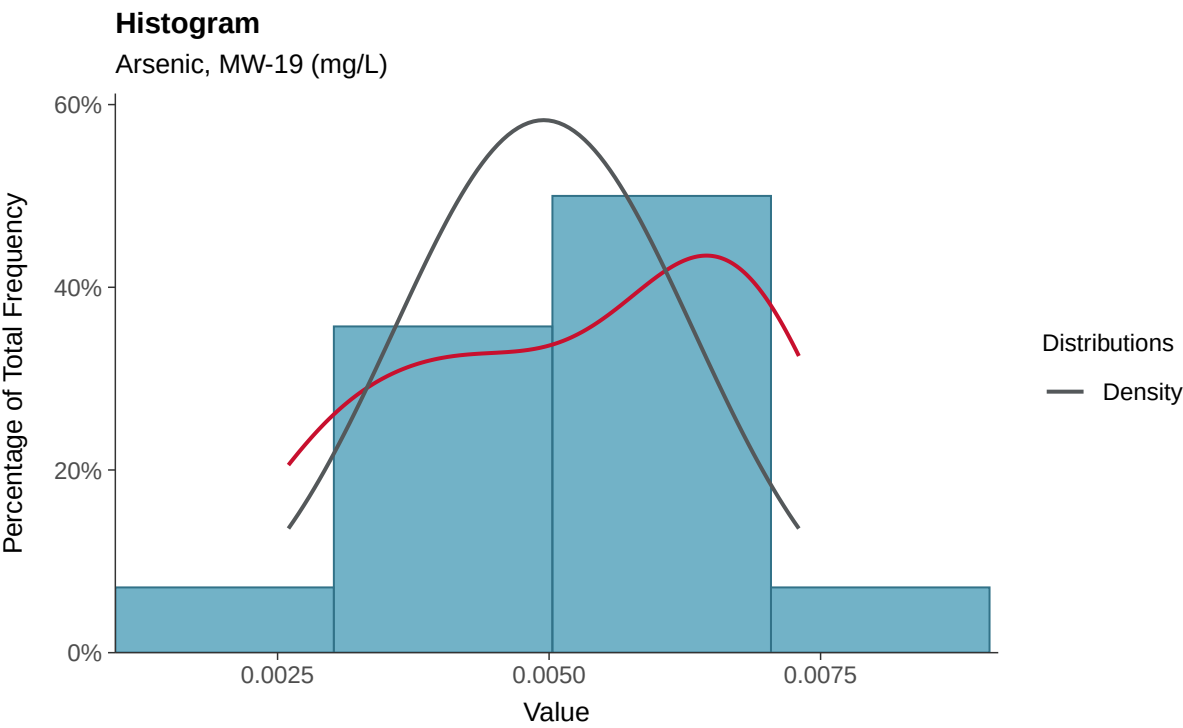
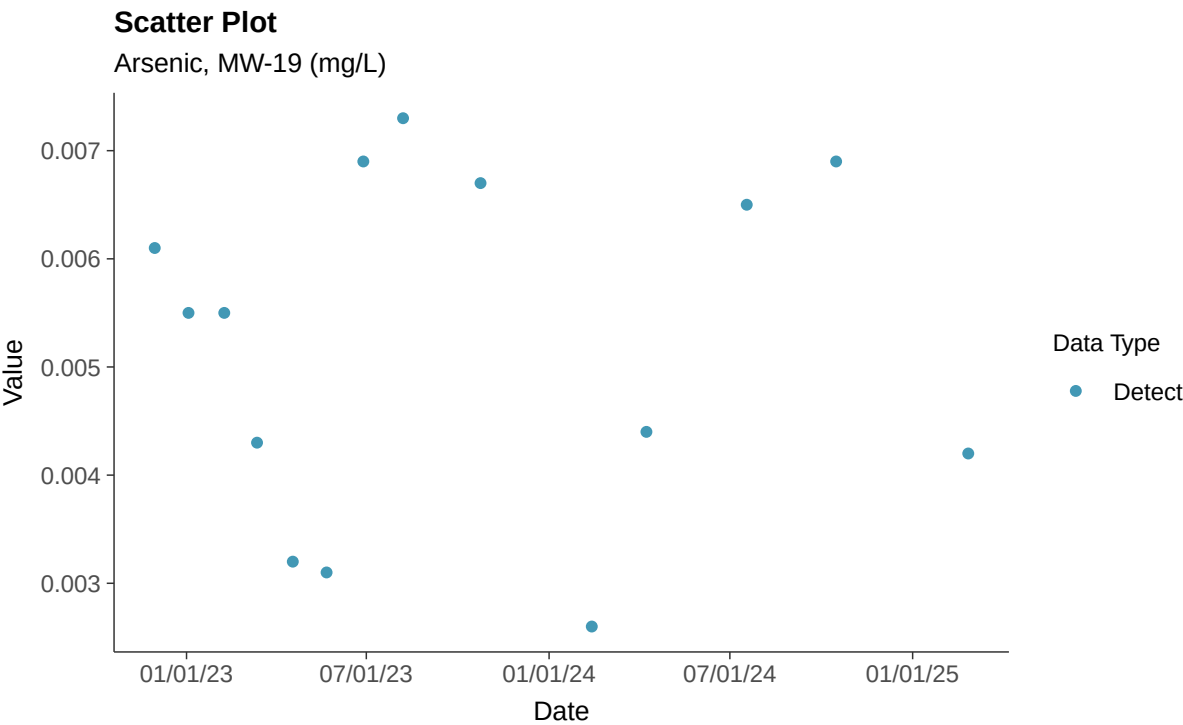


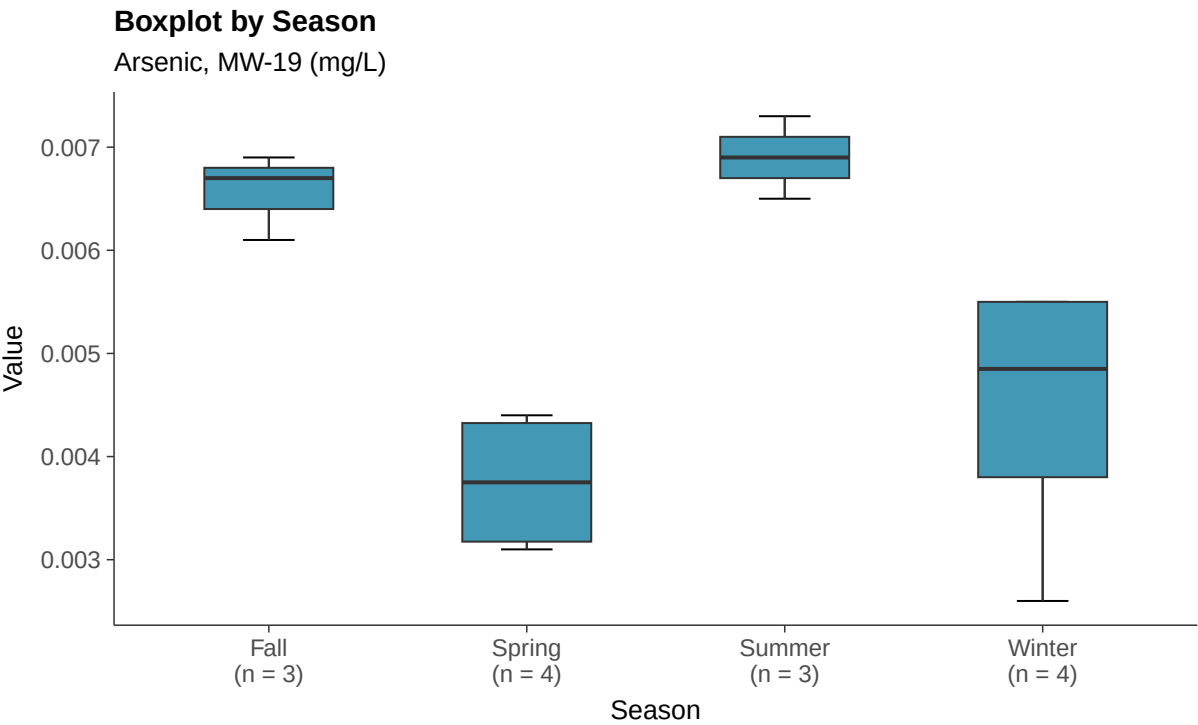
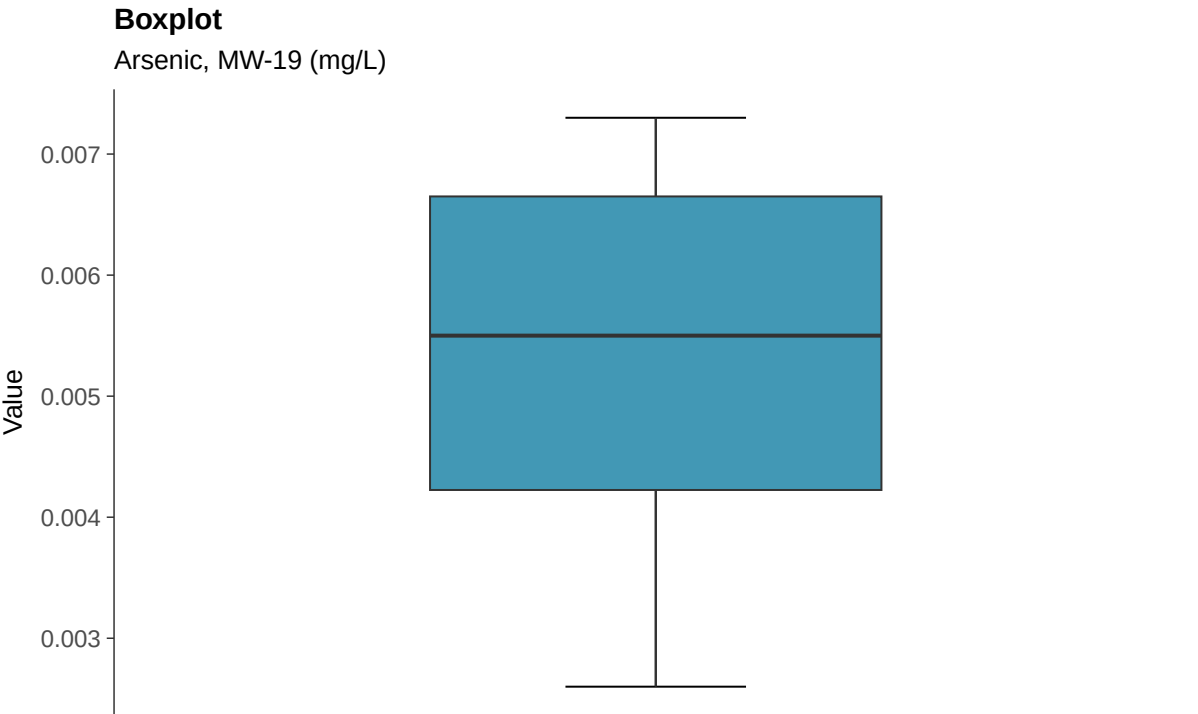


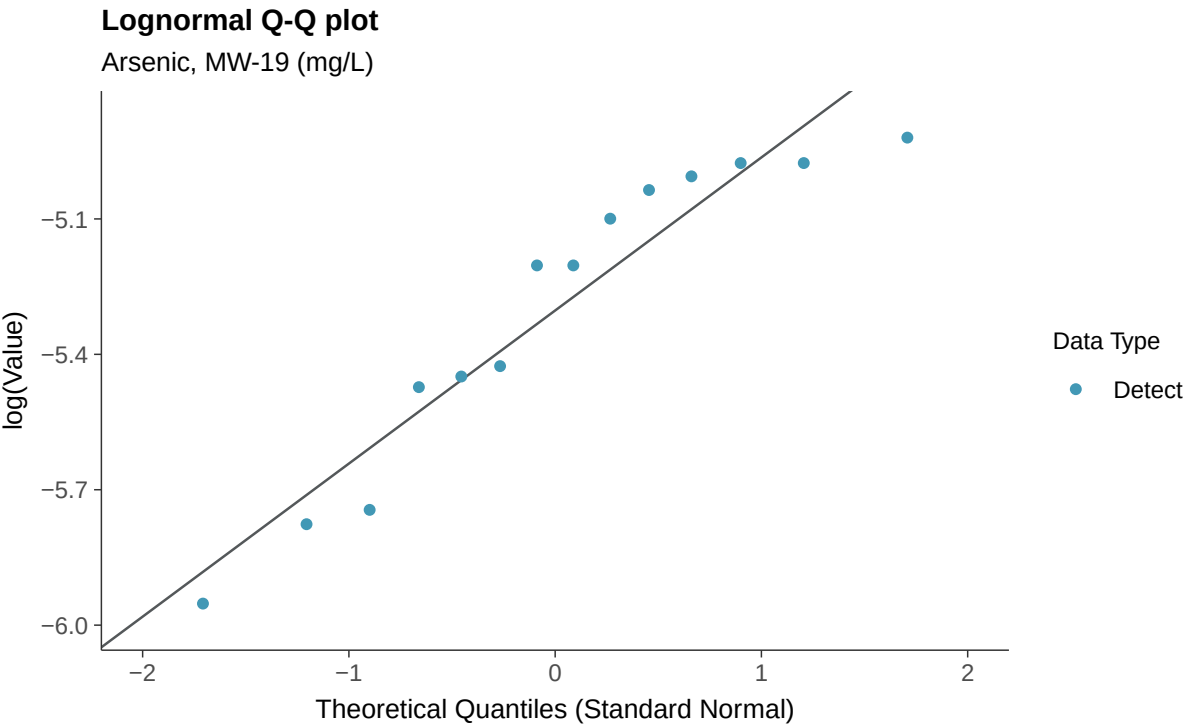
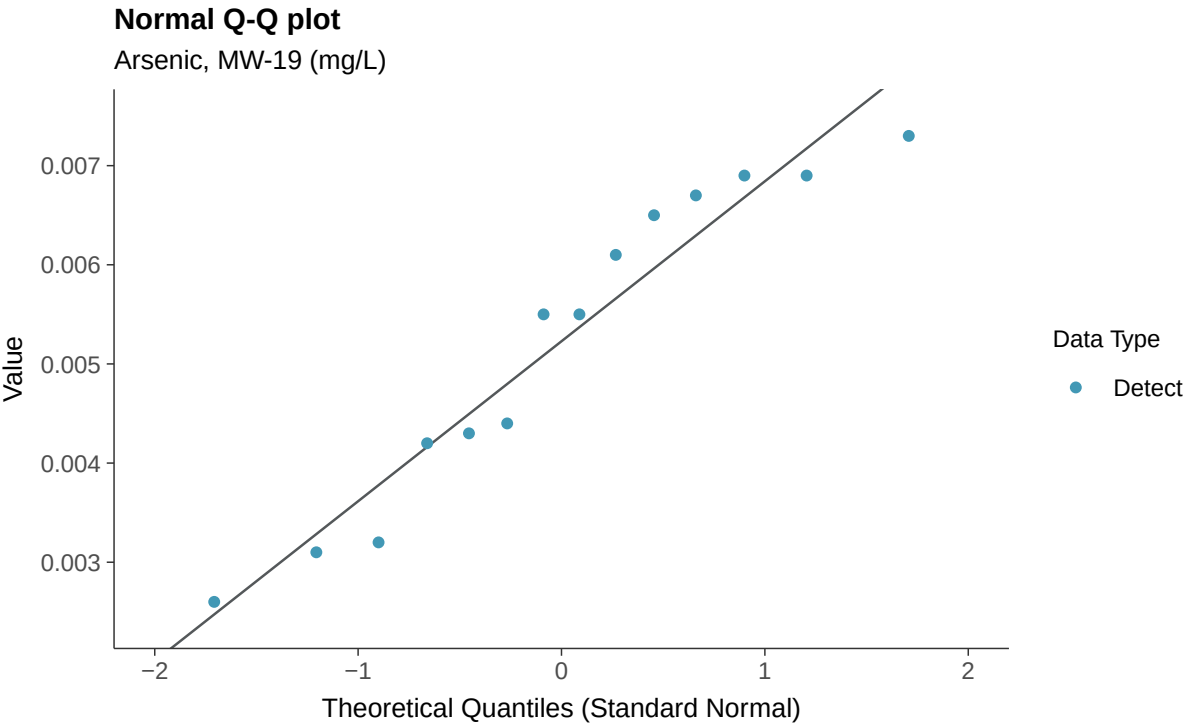


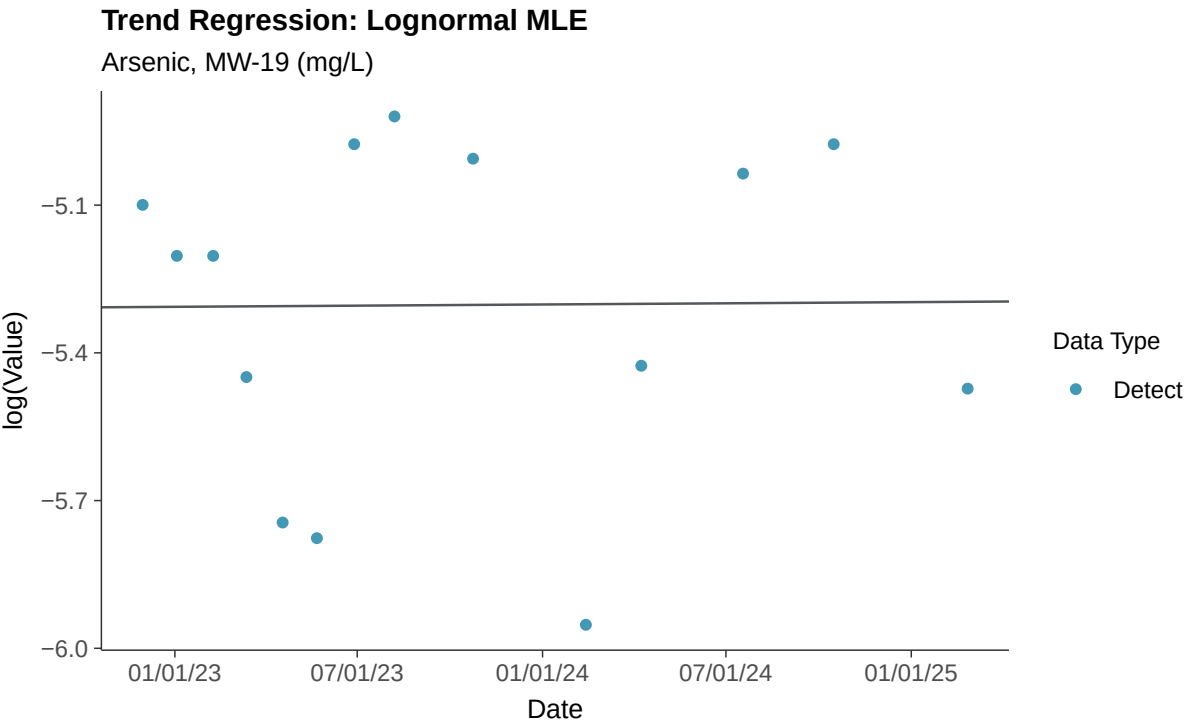
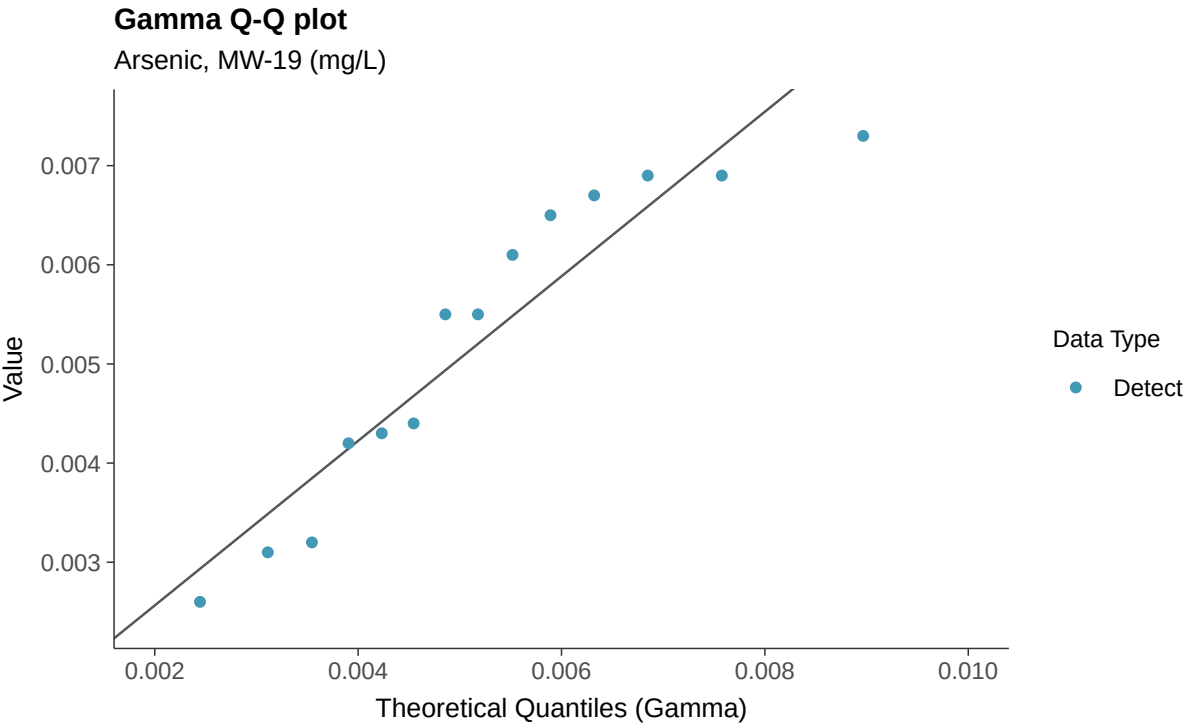
Appendix IV: Arsenic, MW-19

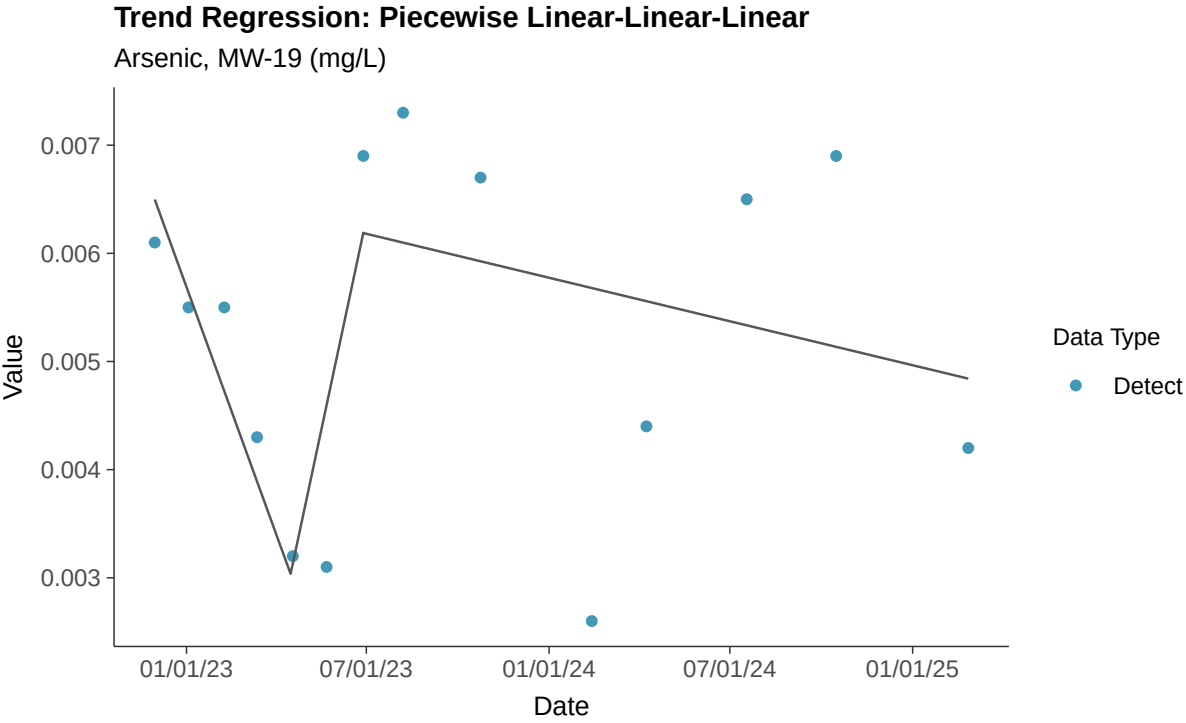
ID: 29_1_4_102







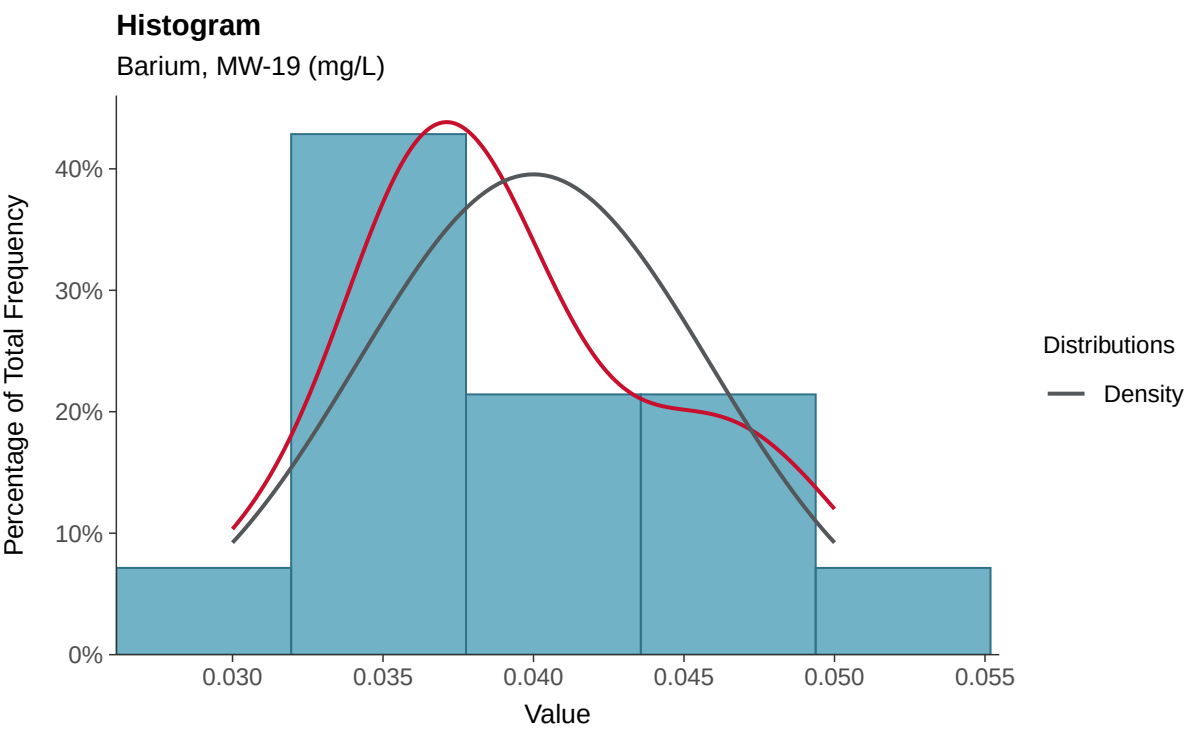
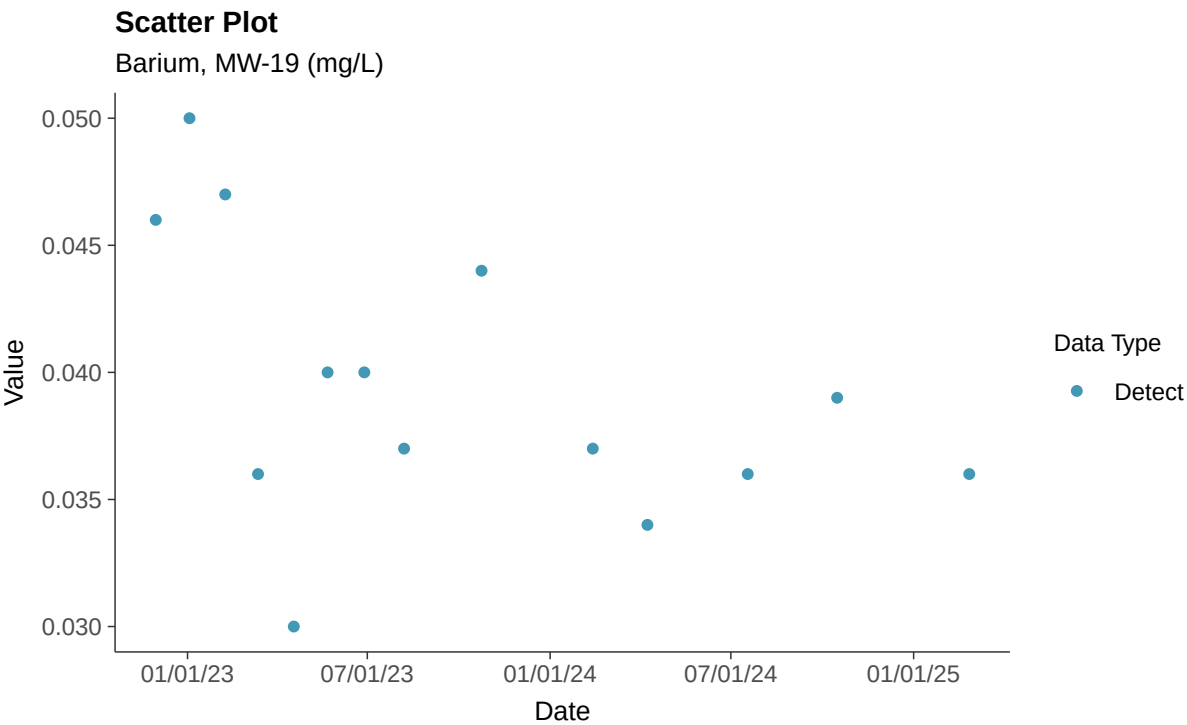


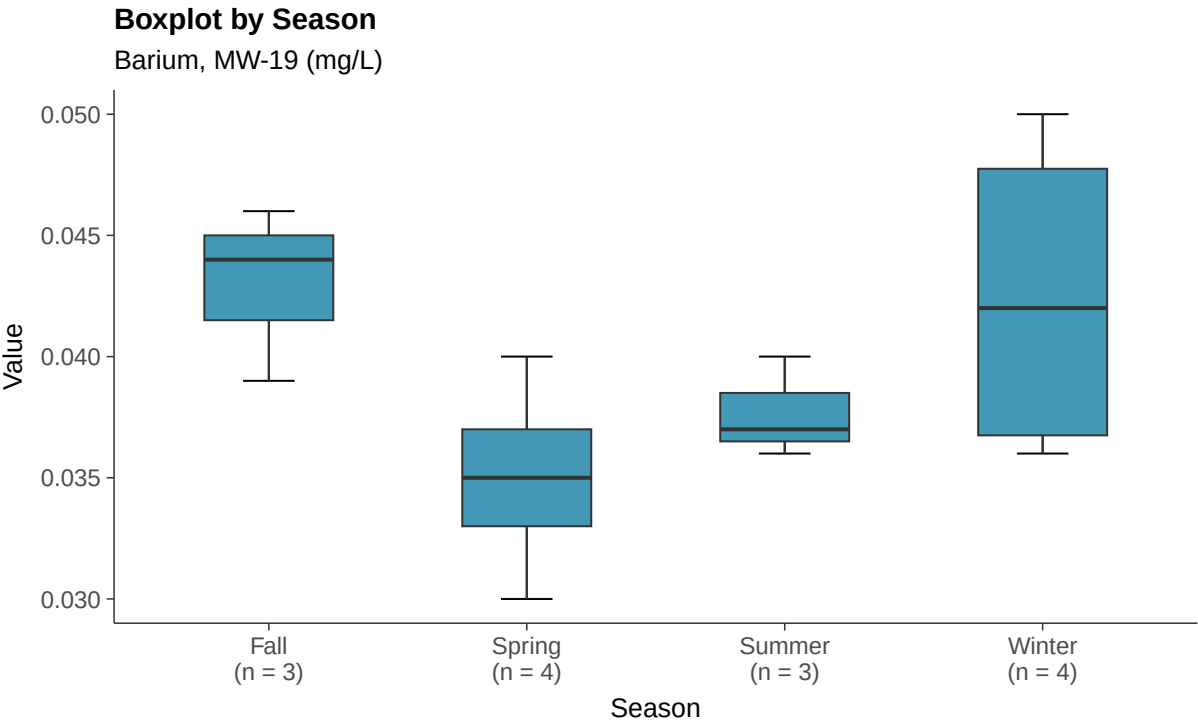
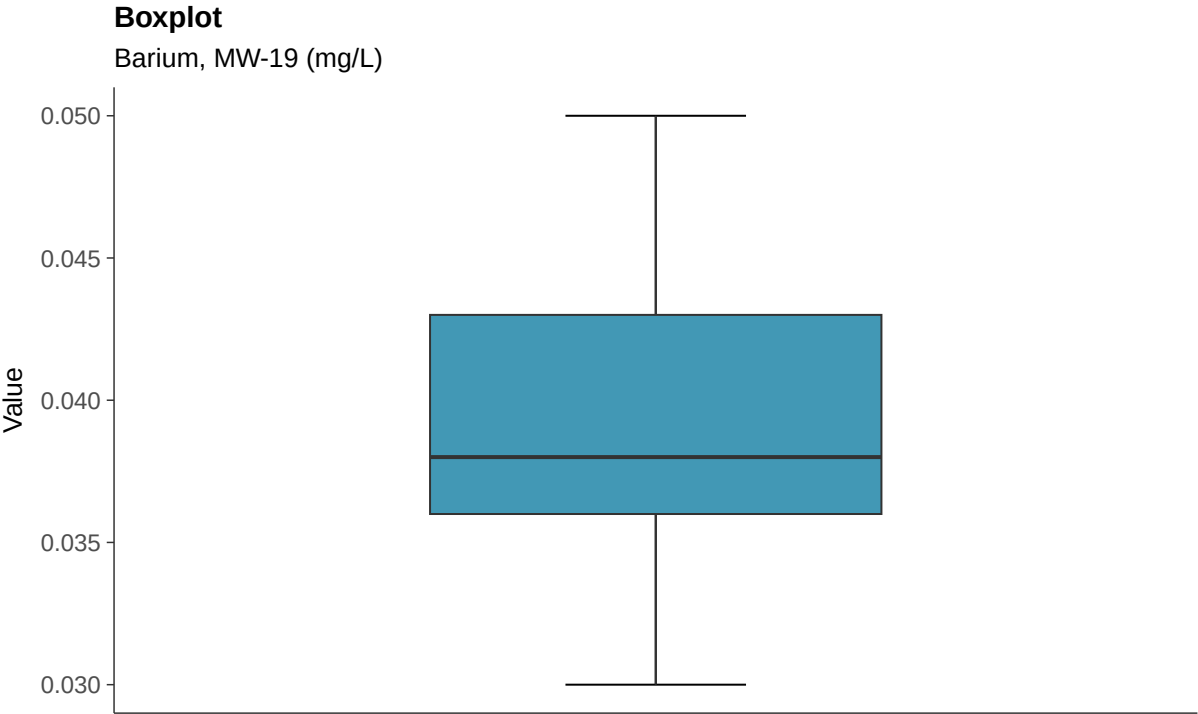


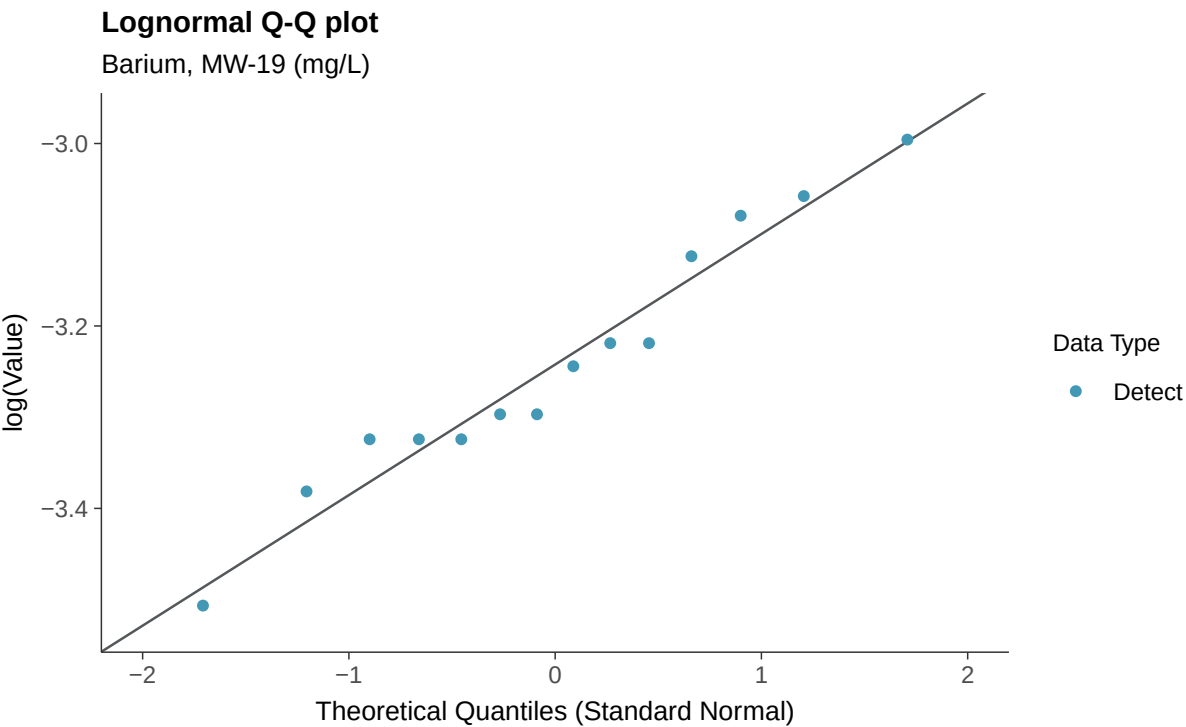
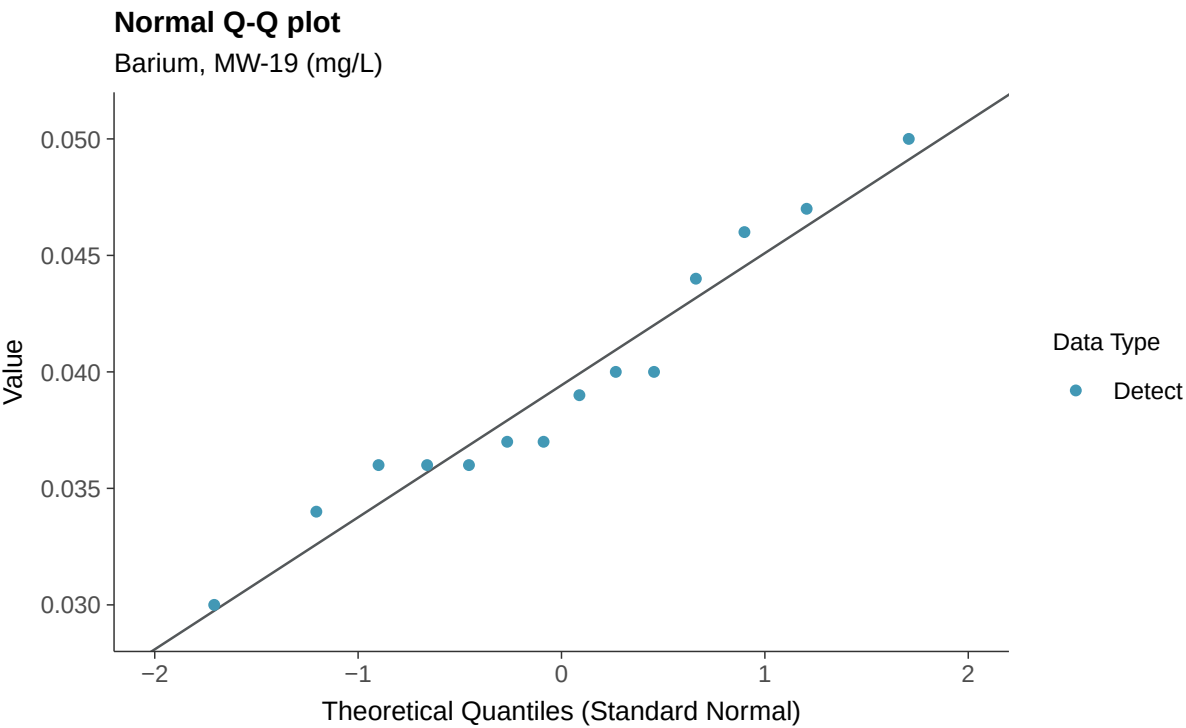


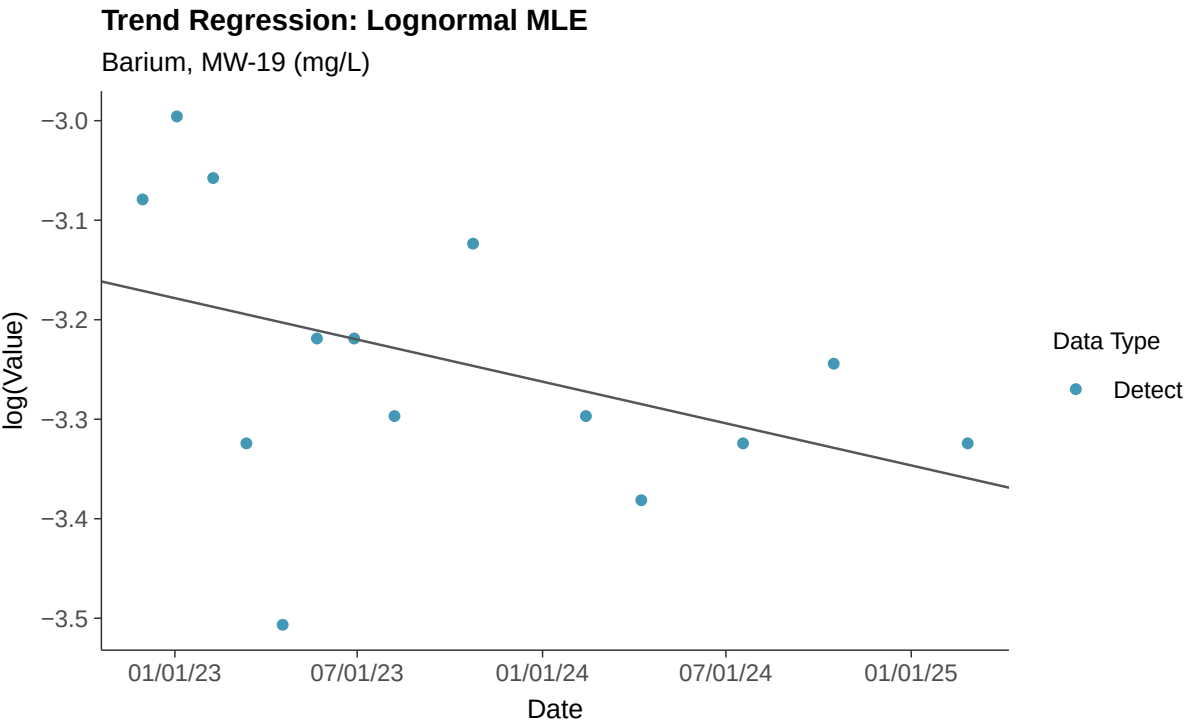
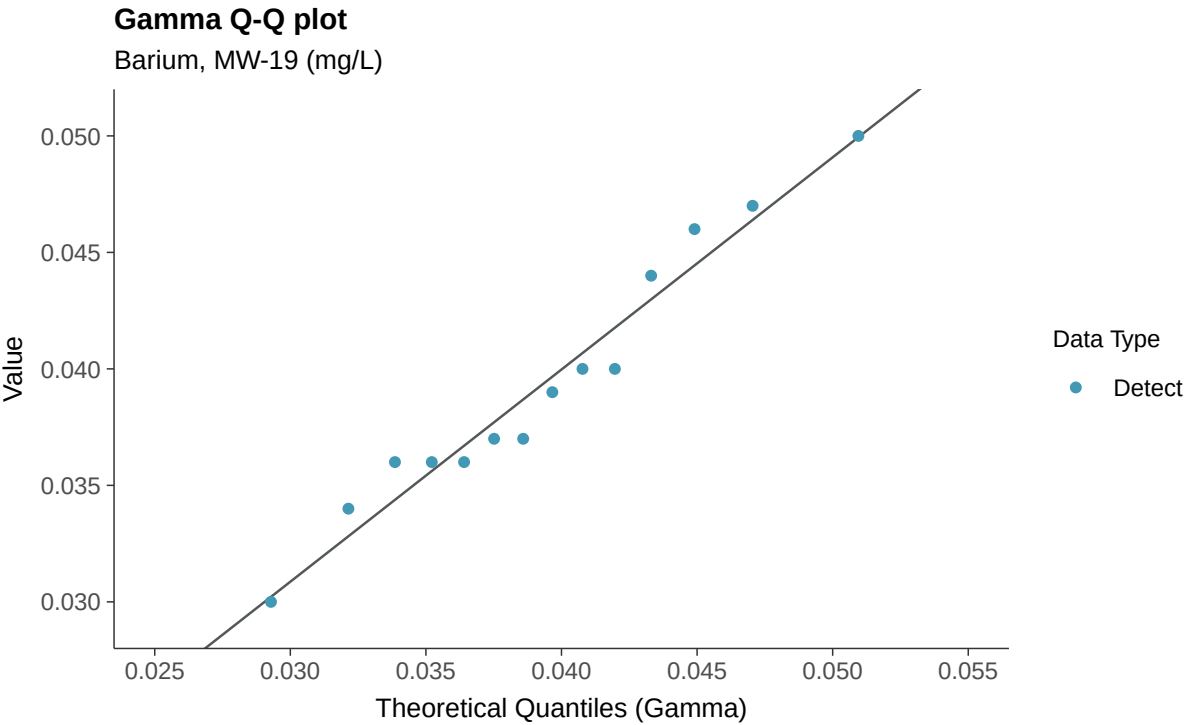
Appendix IV: Barium, MW-19

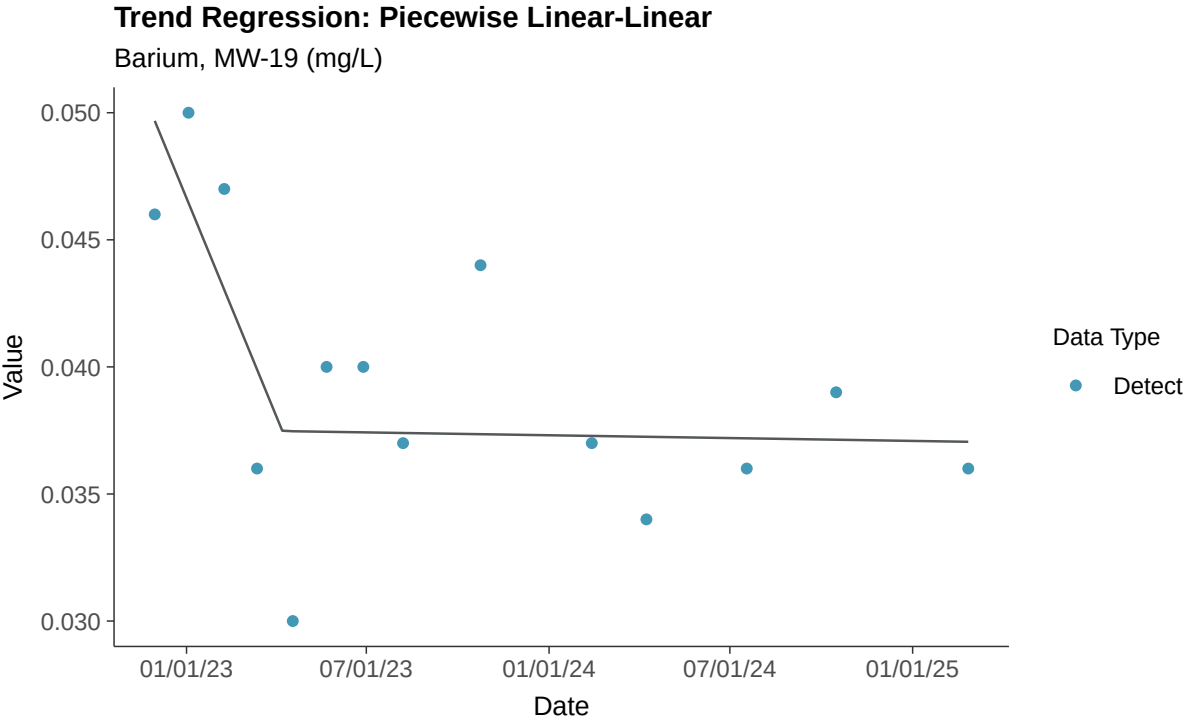
ID: 29_1_4_103







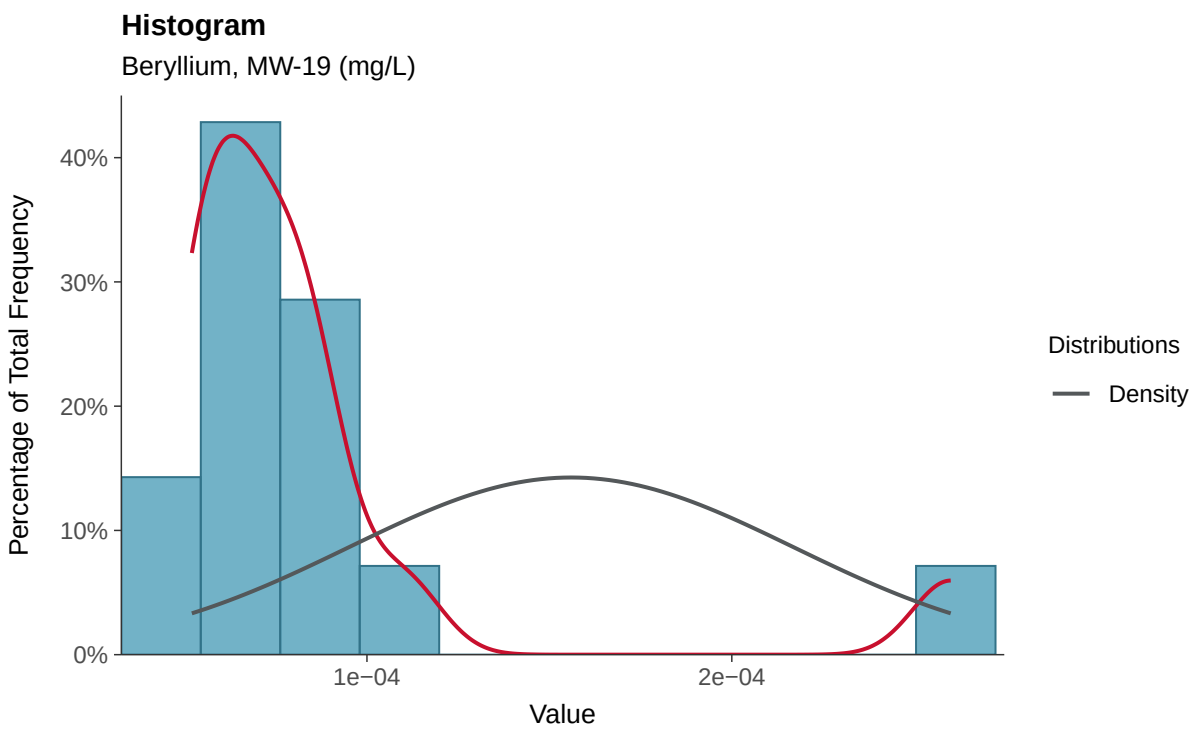
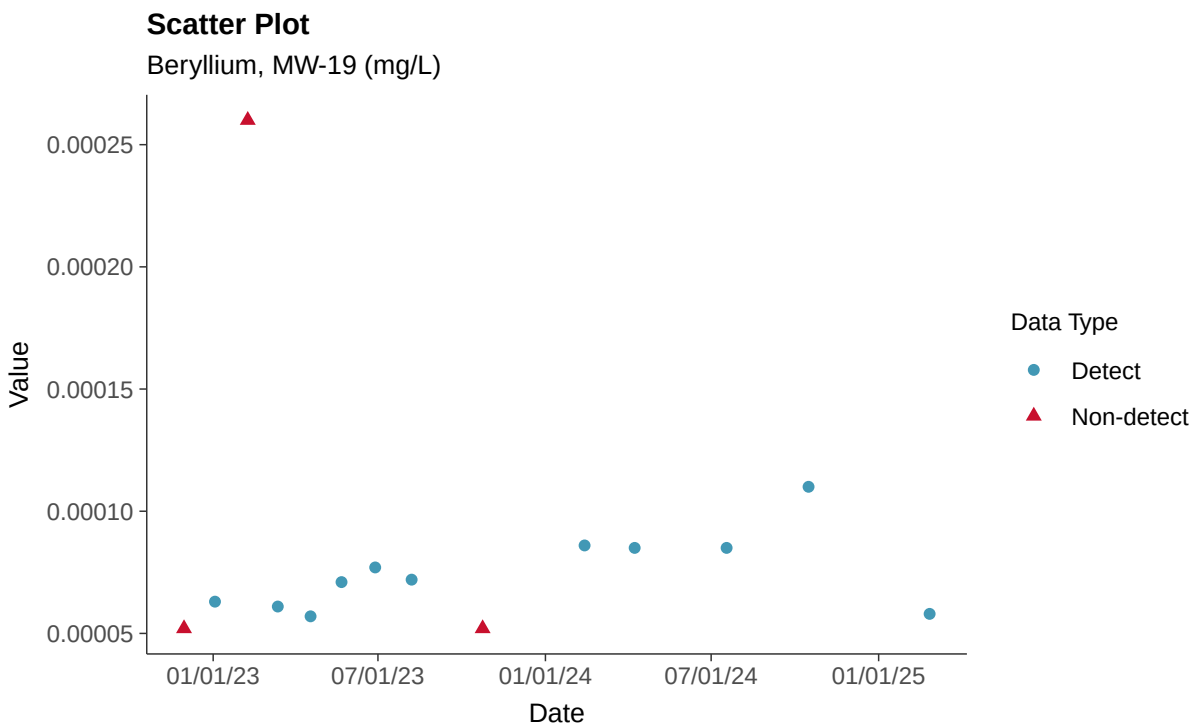


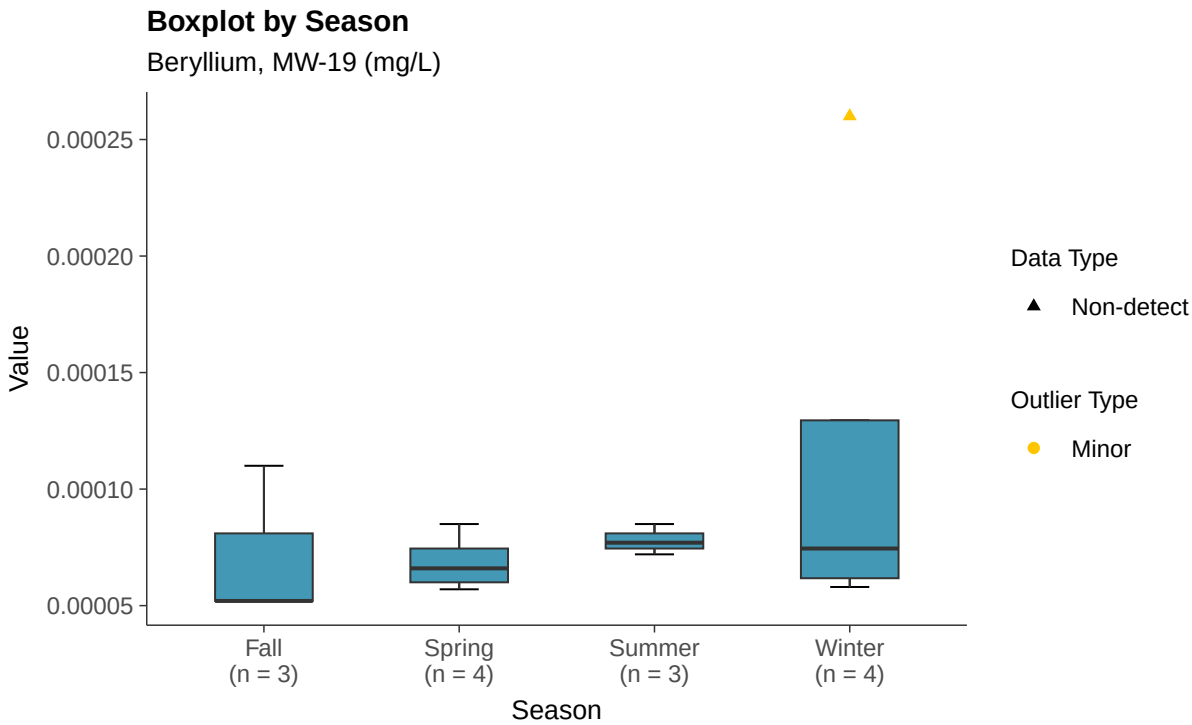
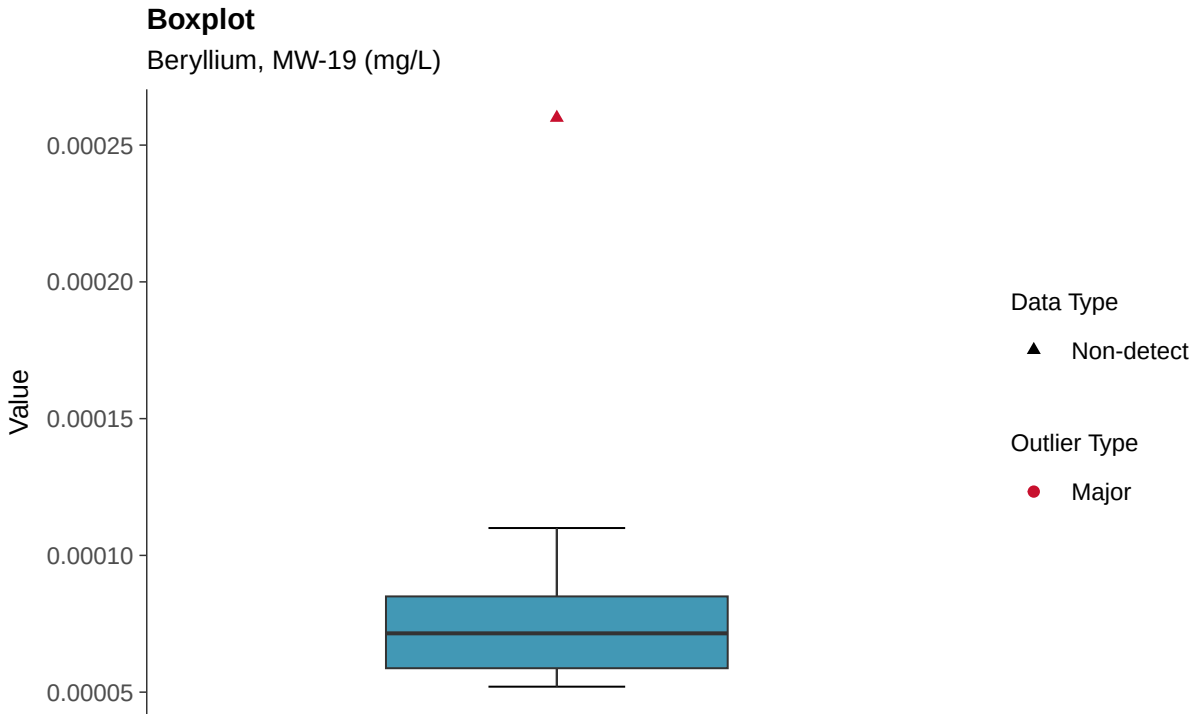




Appendix IV: Beryllium, MW-19

ID: 29_1_4_104

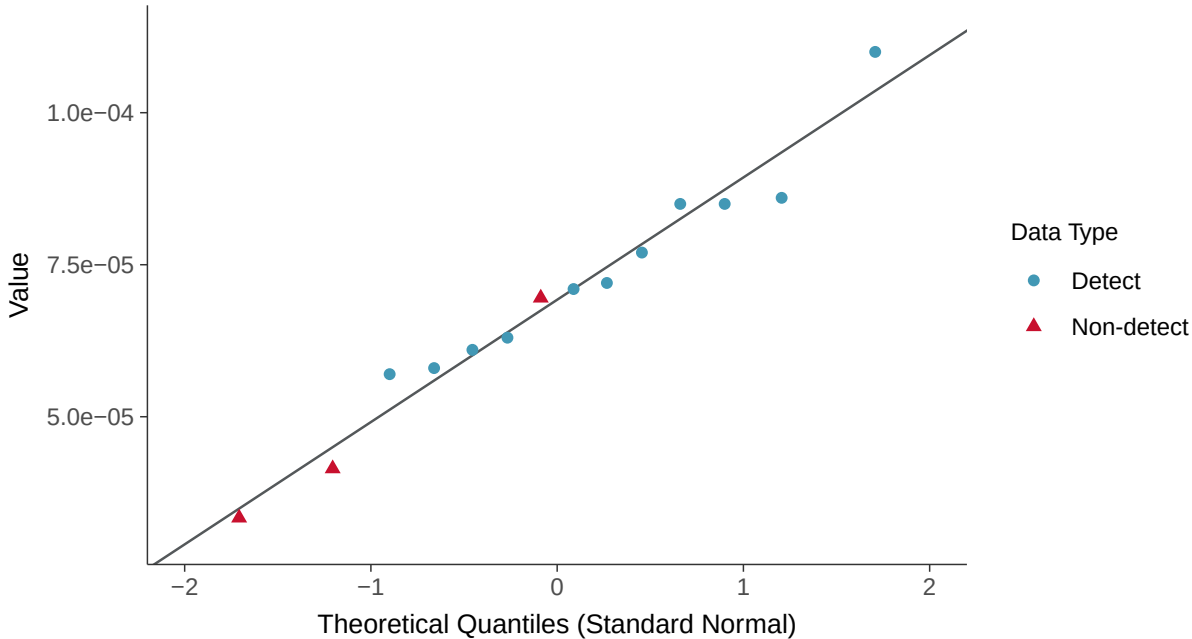






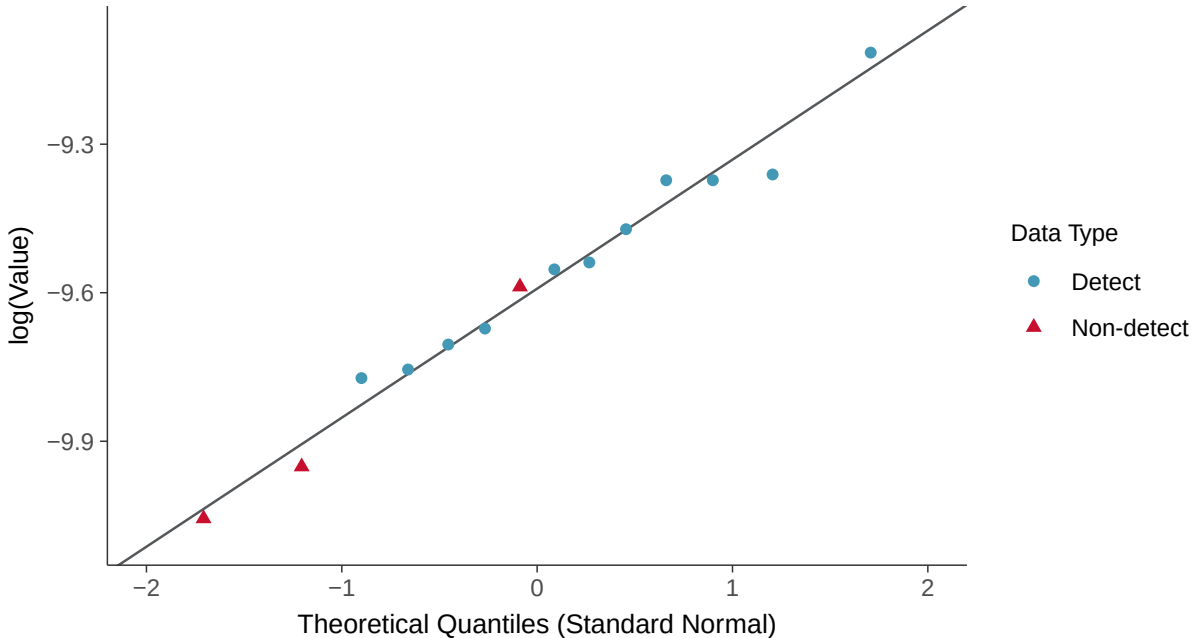
Normal Q-Q plot using ROS Imputed Estimates

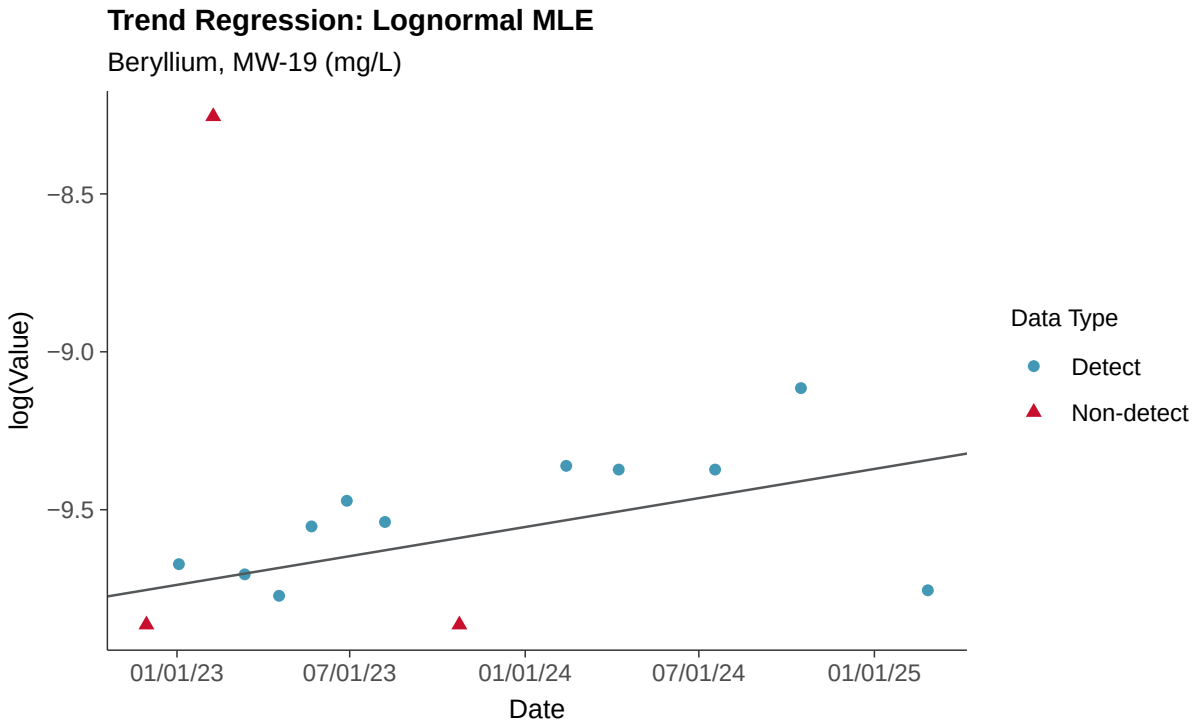
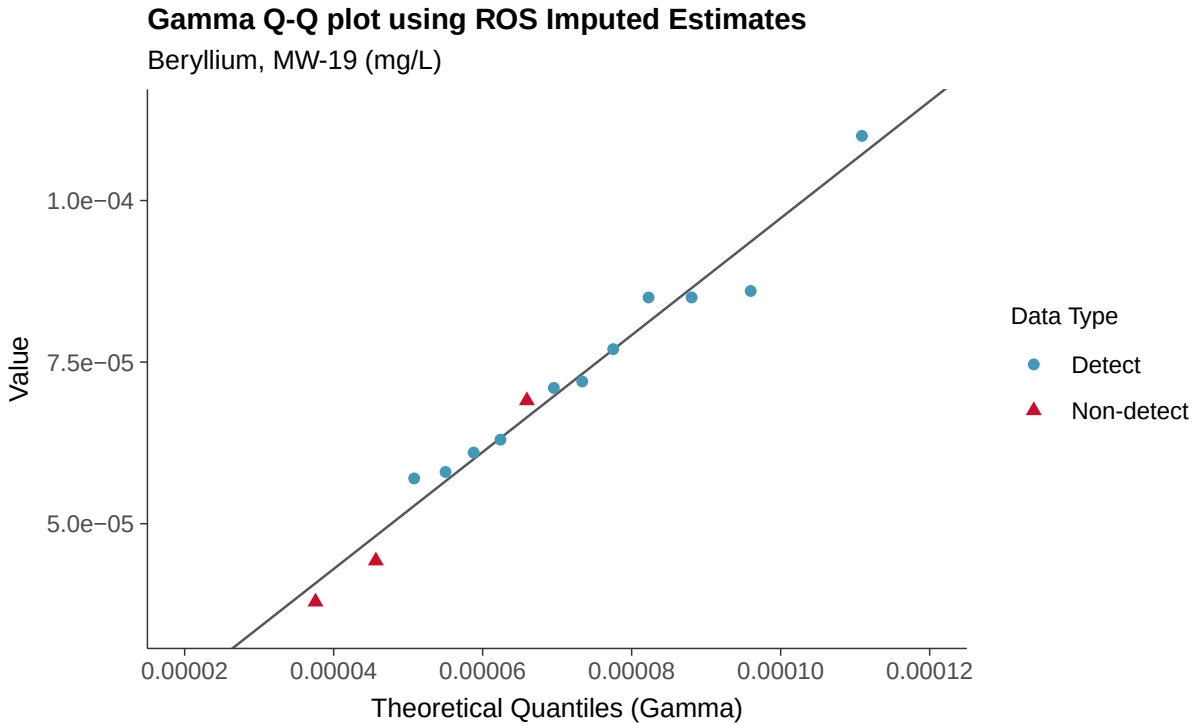
Beryllium, MW-19 (mg/L)

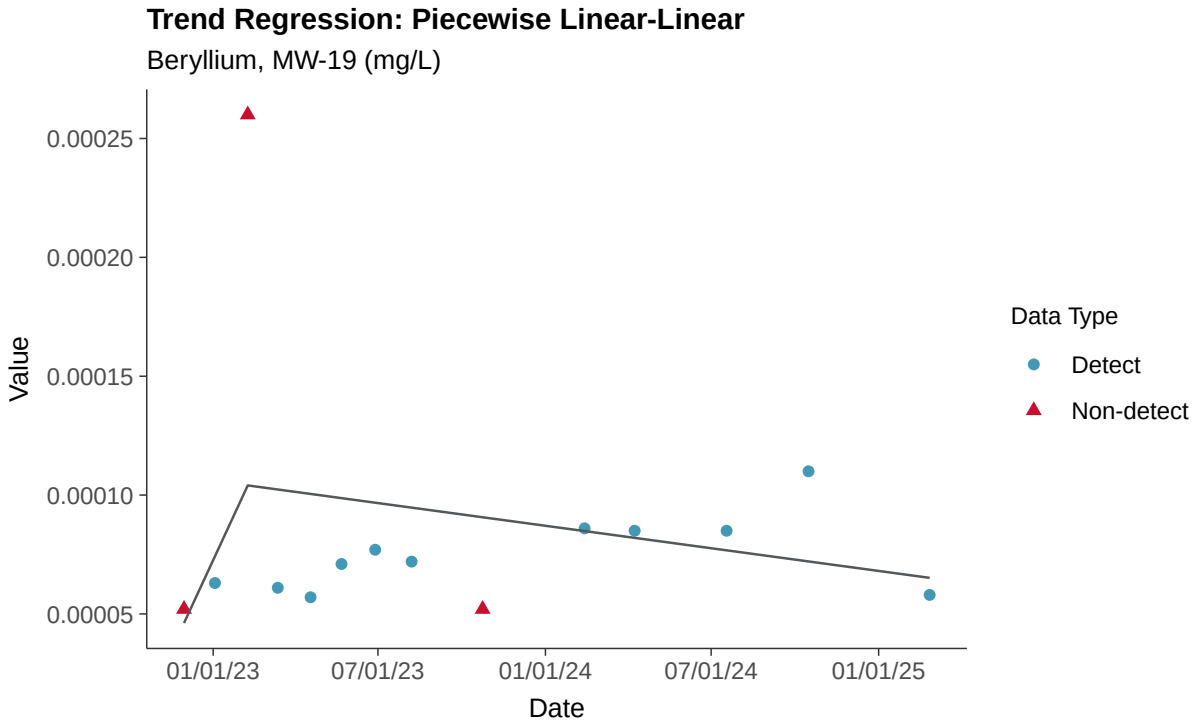


Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



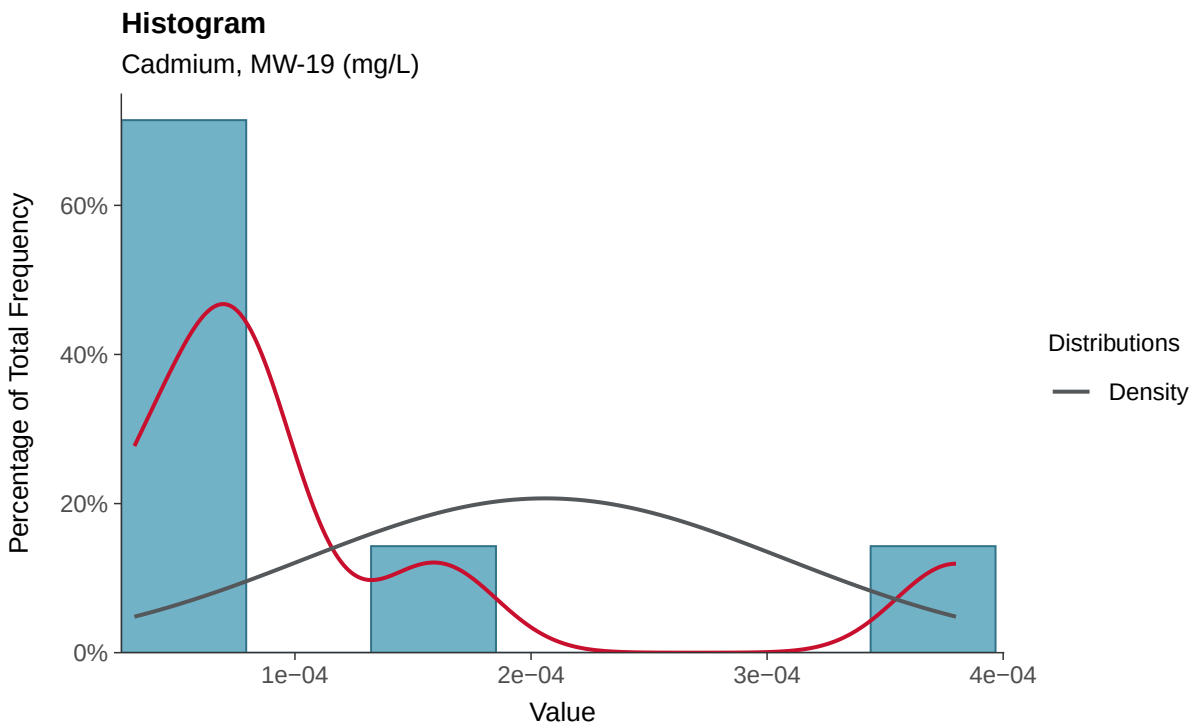
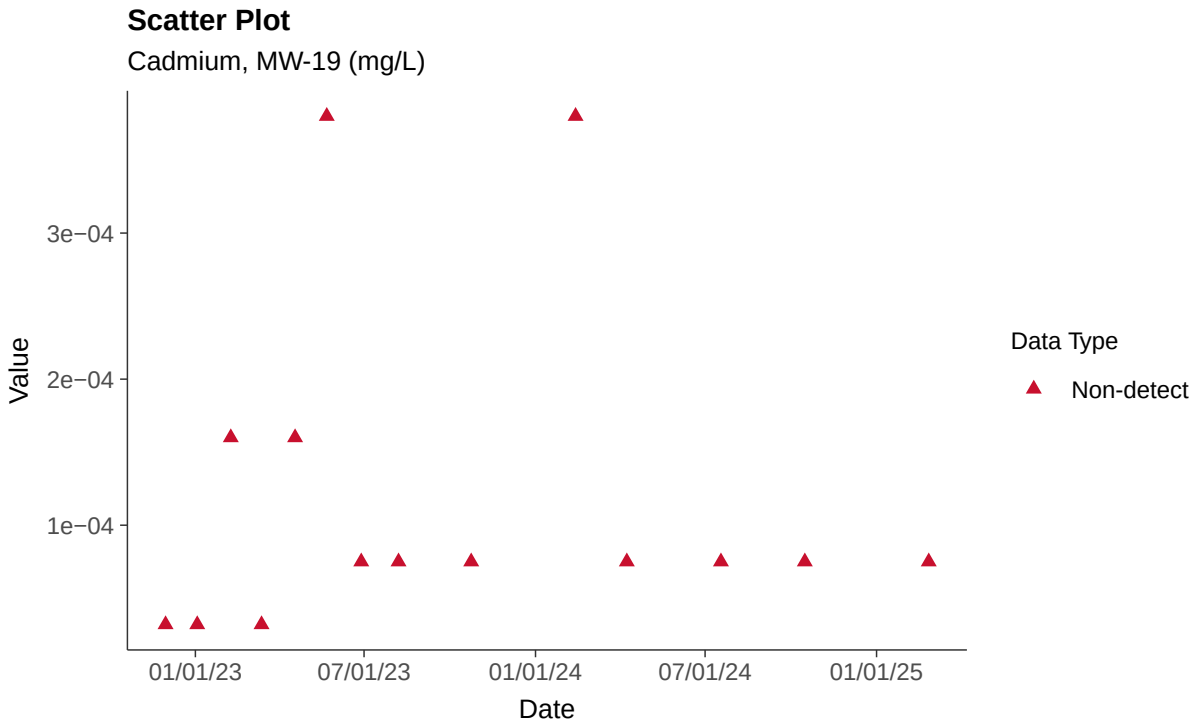


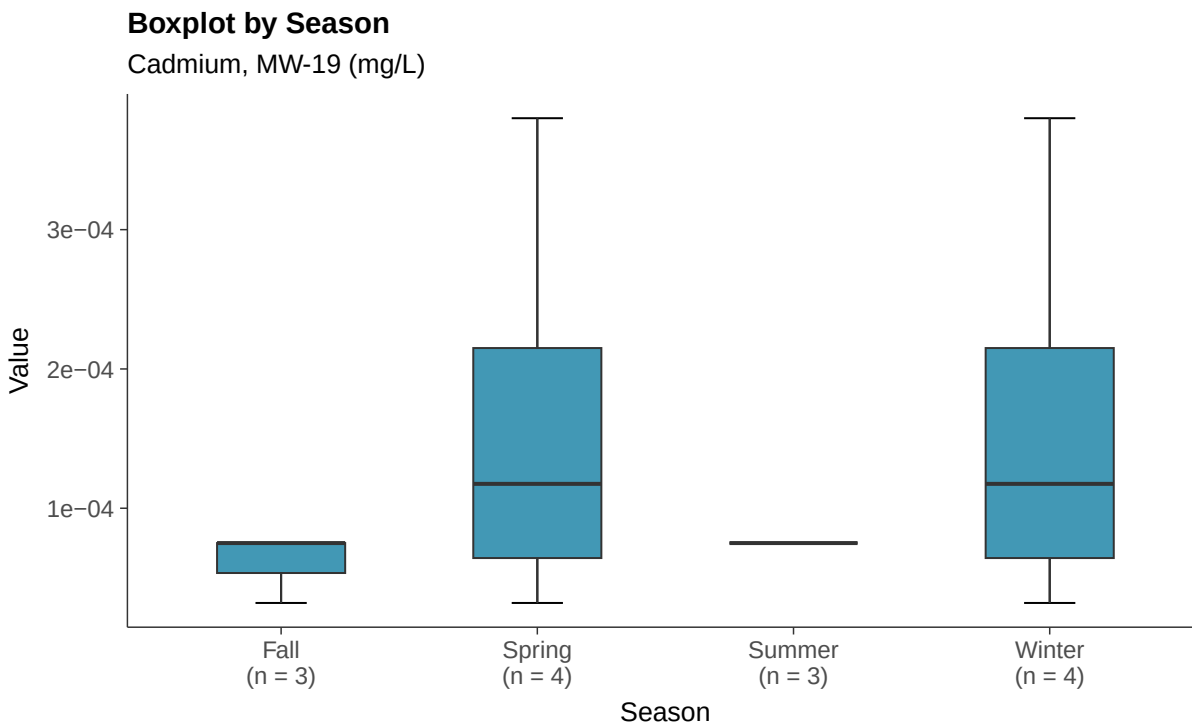
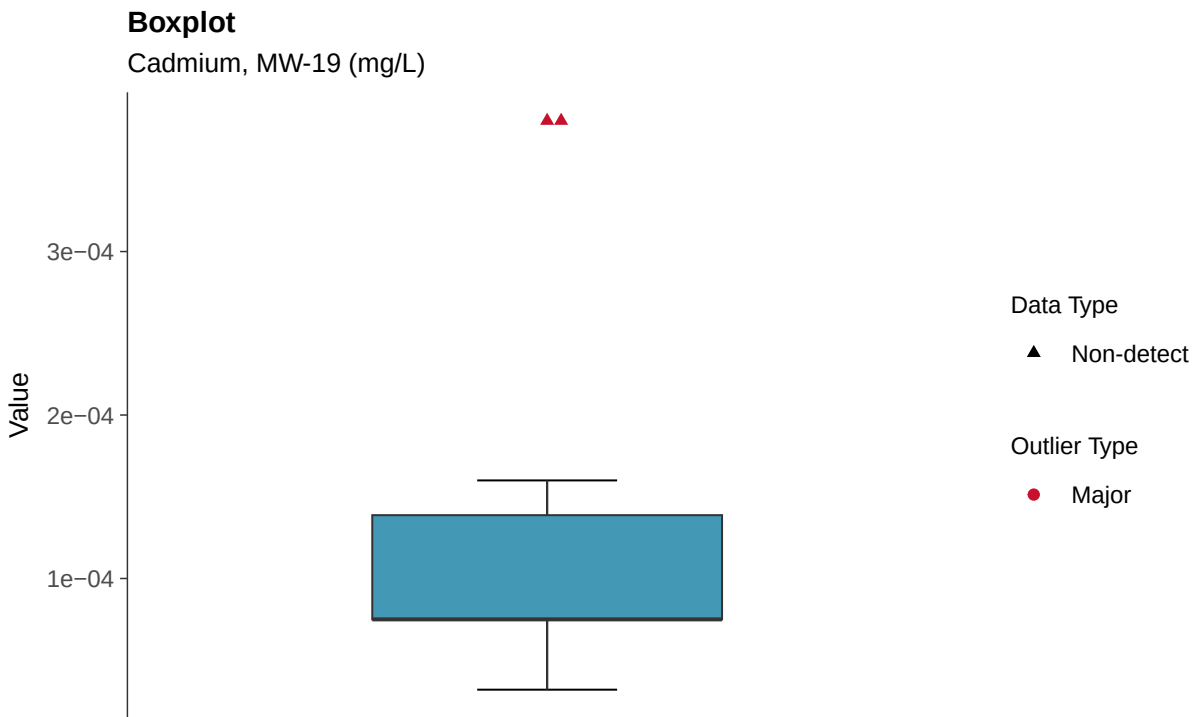


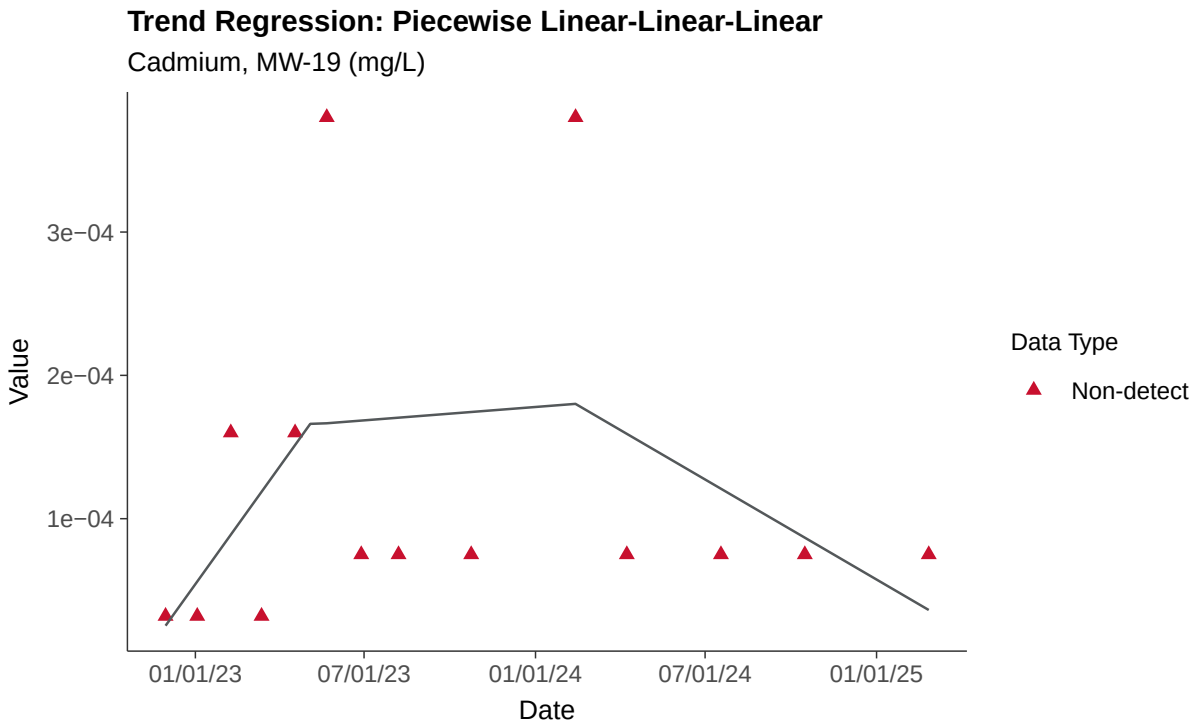
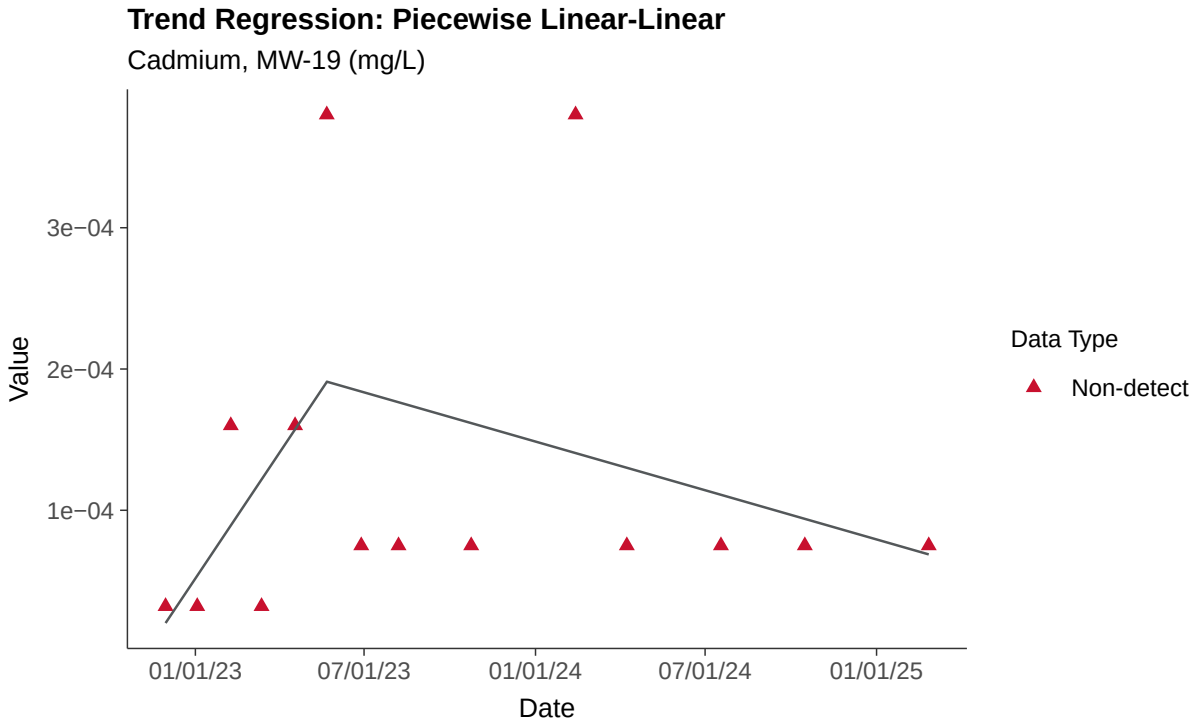


Appendix IV: Cadmium, MW-19

ID: 29_1_4_106



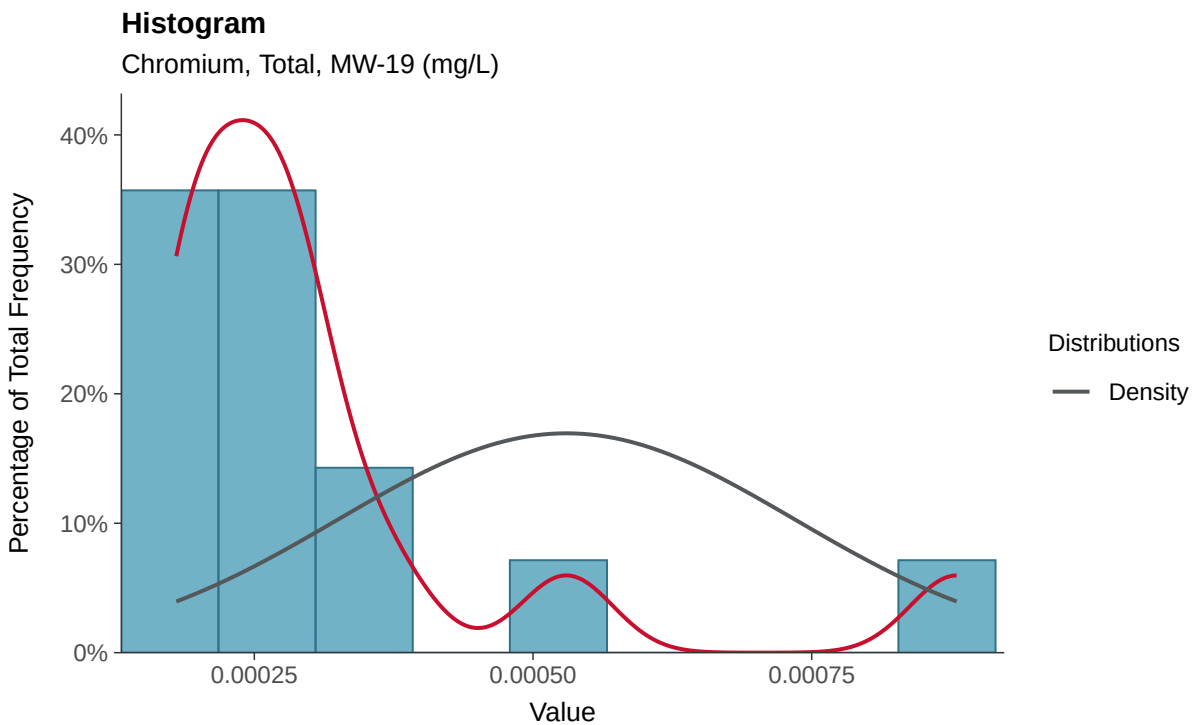
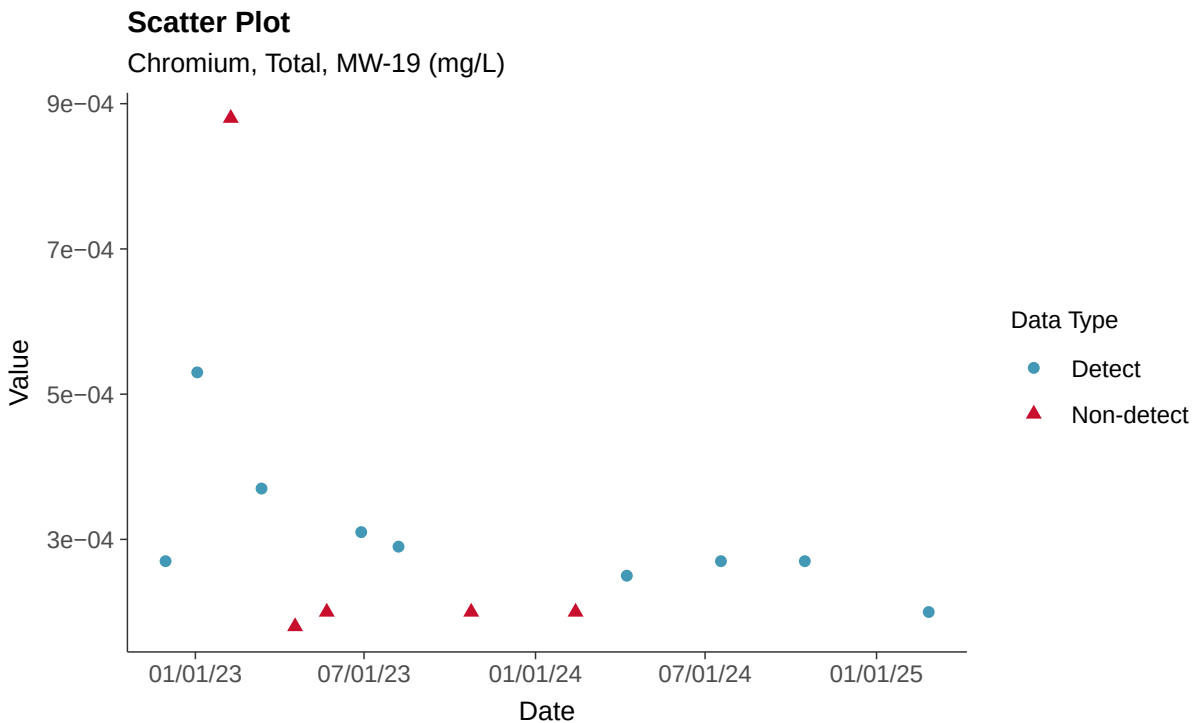


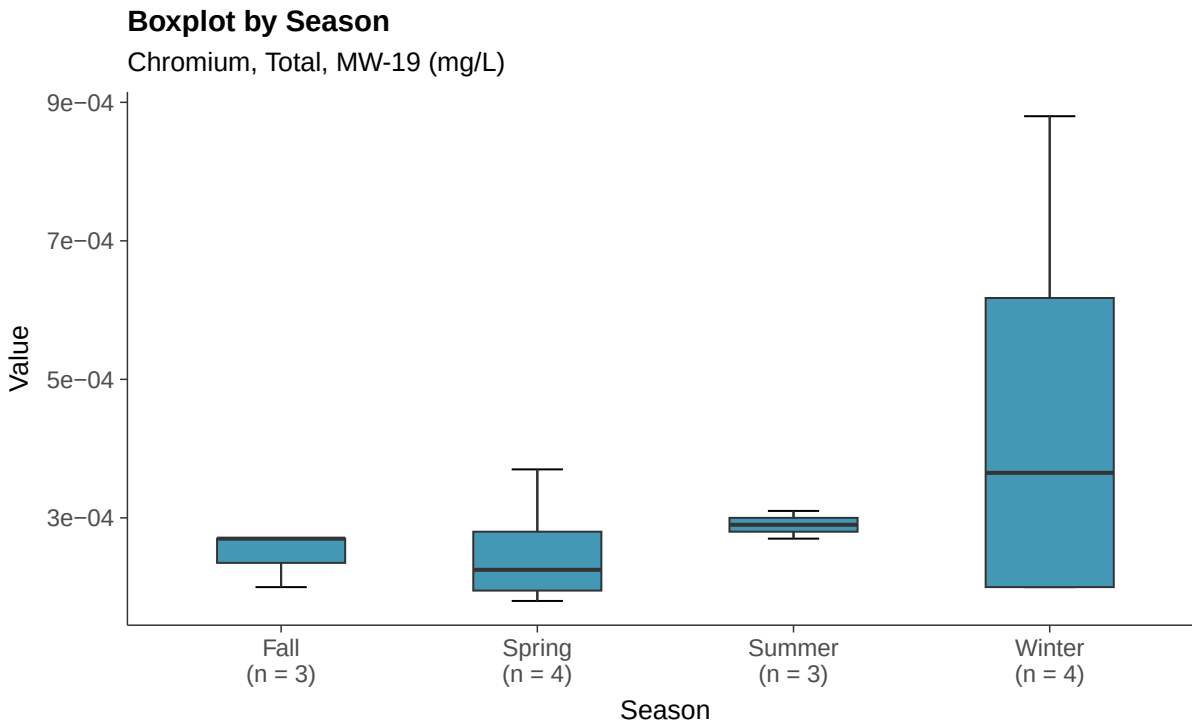
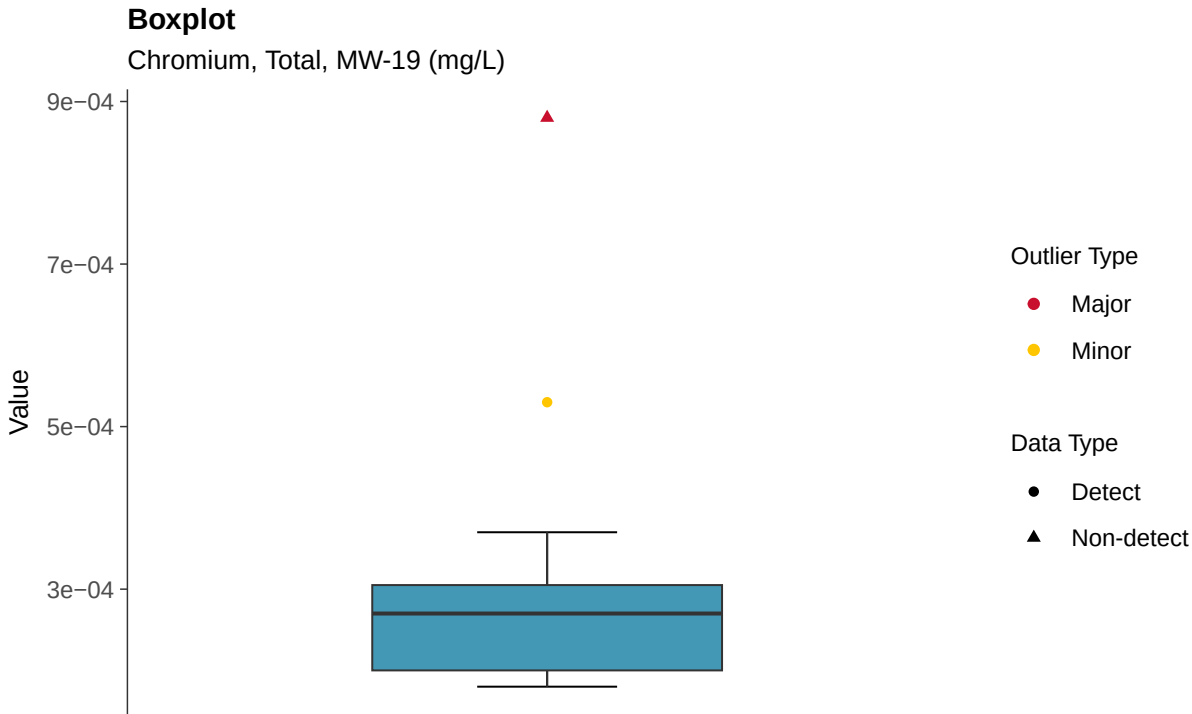




Appendix IV: Chromium, Total, MW-19

ID: 29_1_4_109

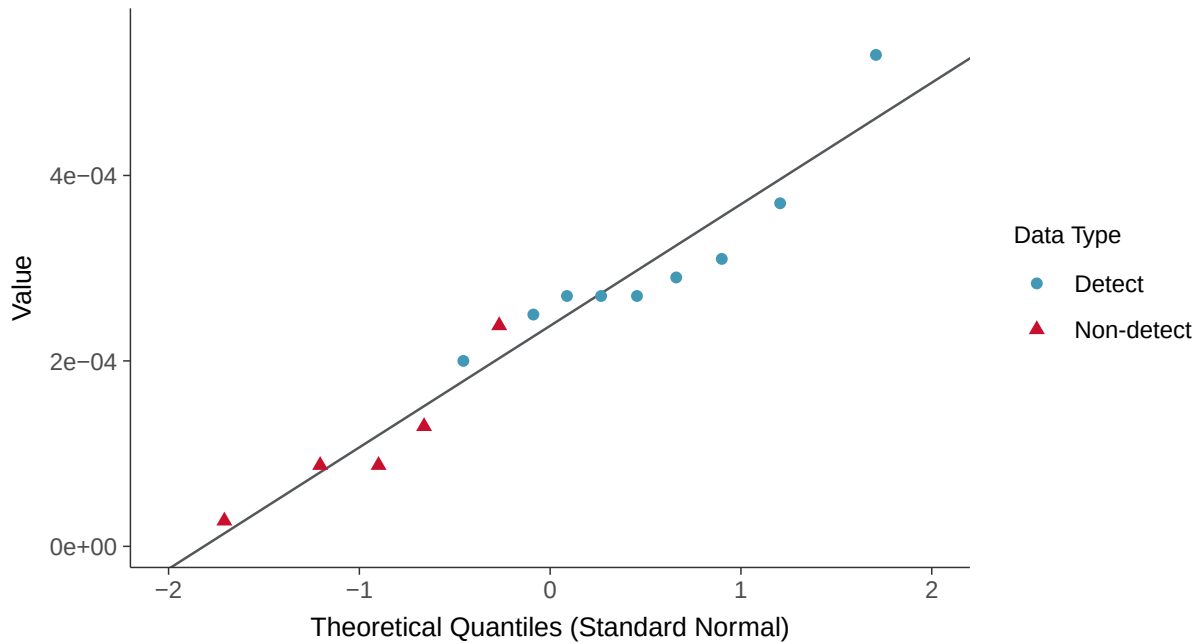






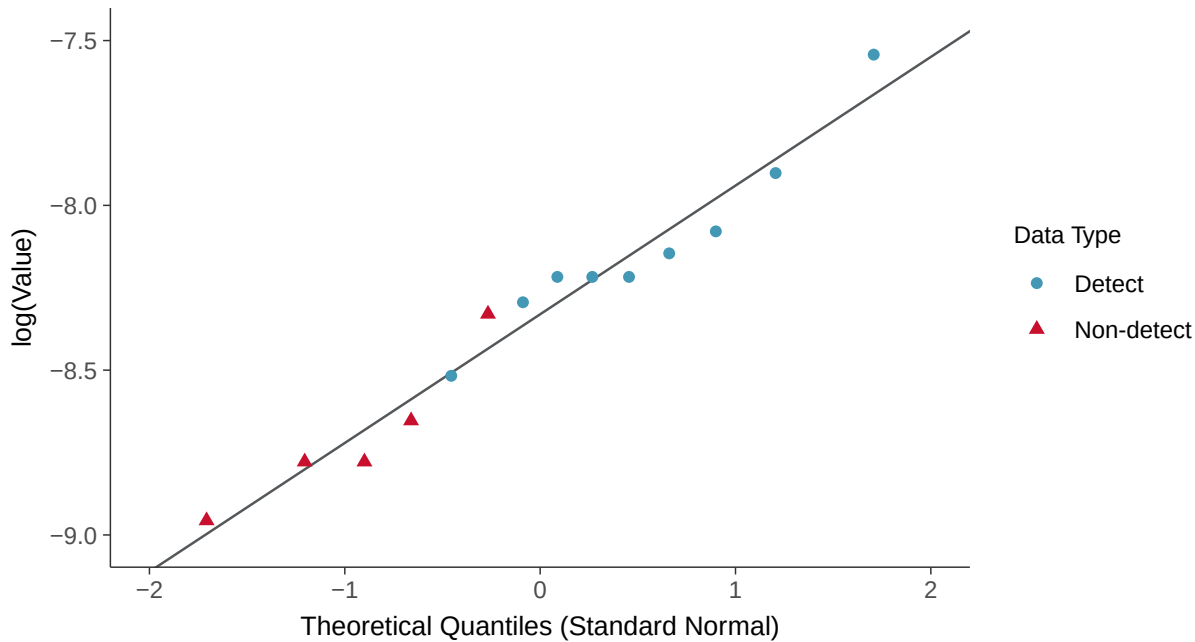
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-19 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

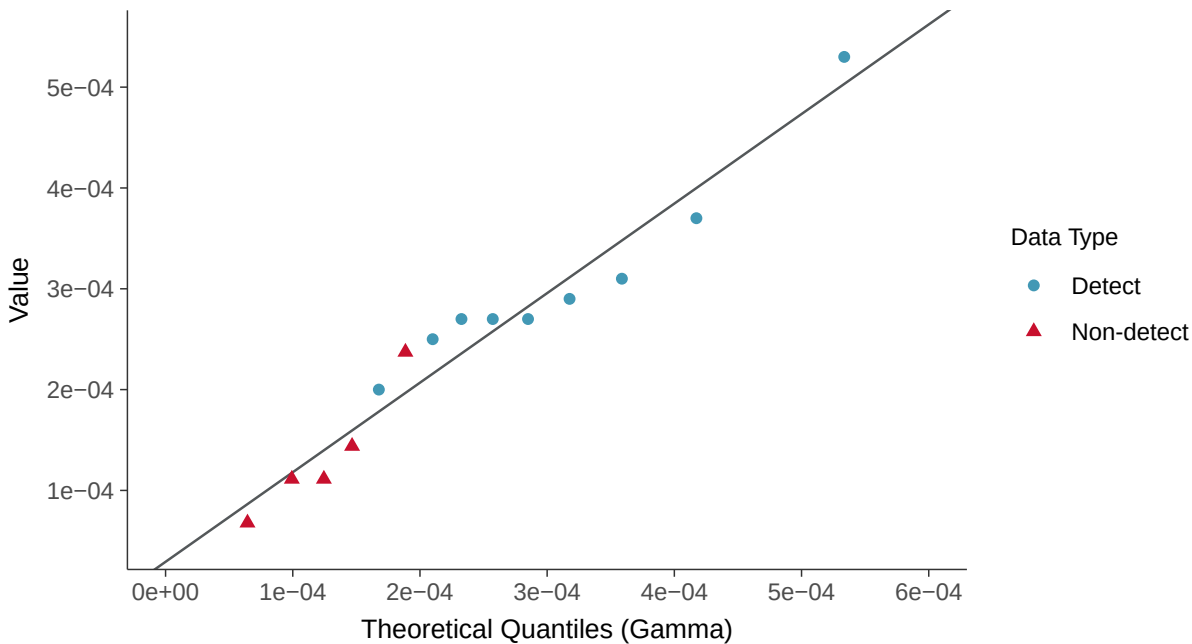
Chromium, Total, MW-19 (mg/L)





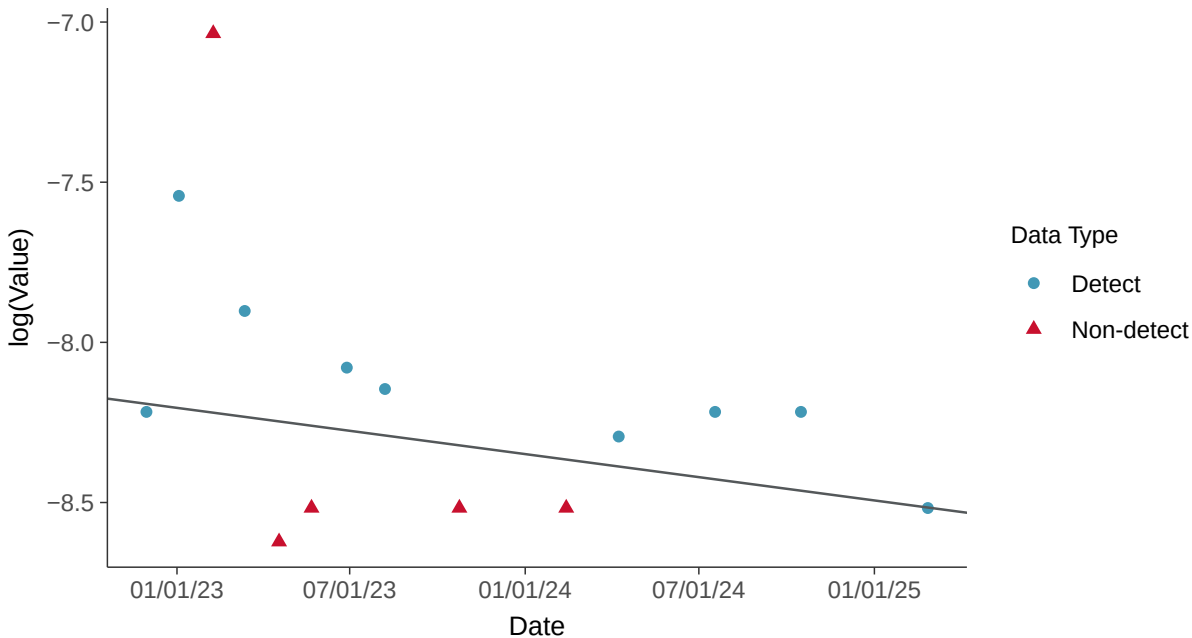
Gamma Q-Q plot using ROS Imputed Estimates

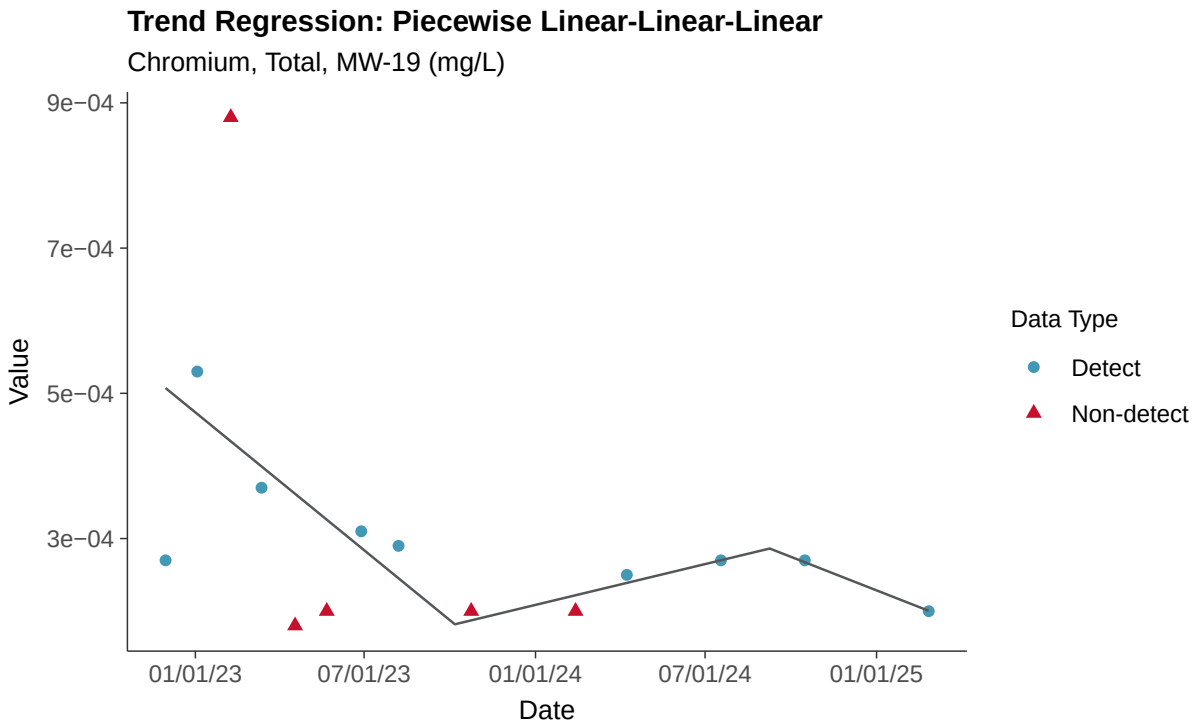
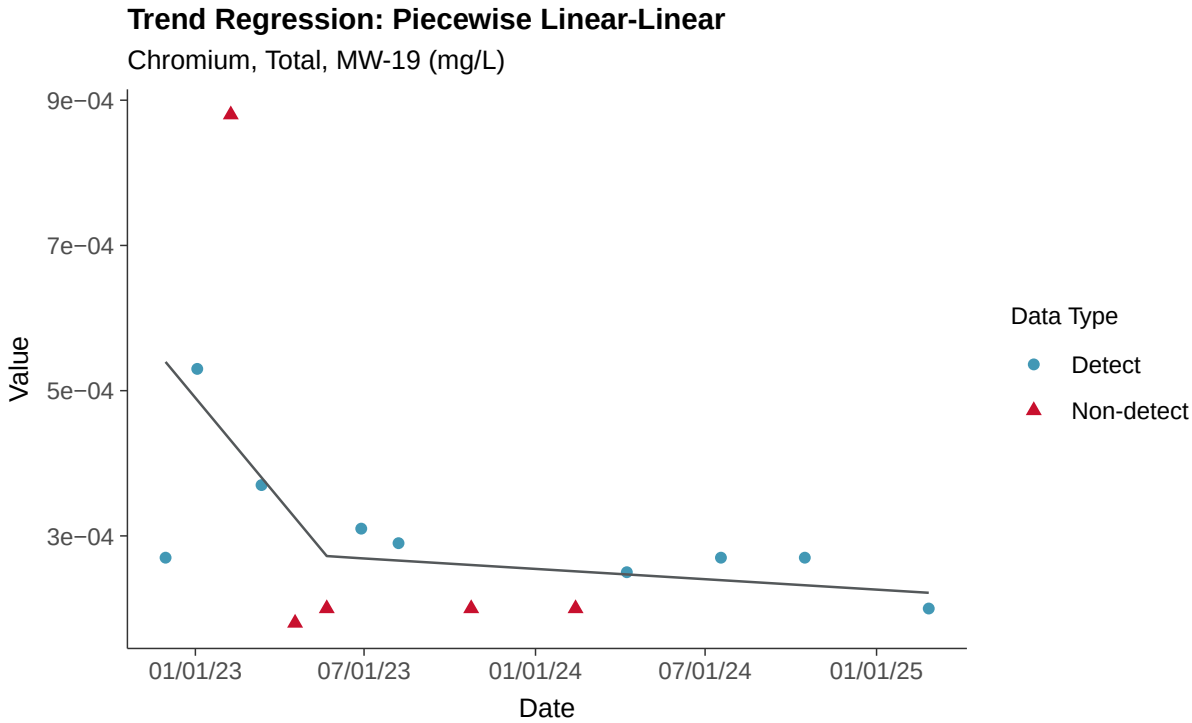
Chromium, Total, MW-19 (mg/L)



Trend Regression: Lognormal MLE

Chromium, Total, MW-19 (mg/L)

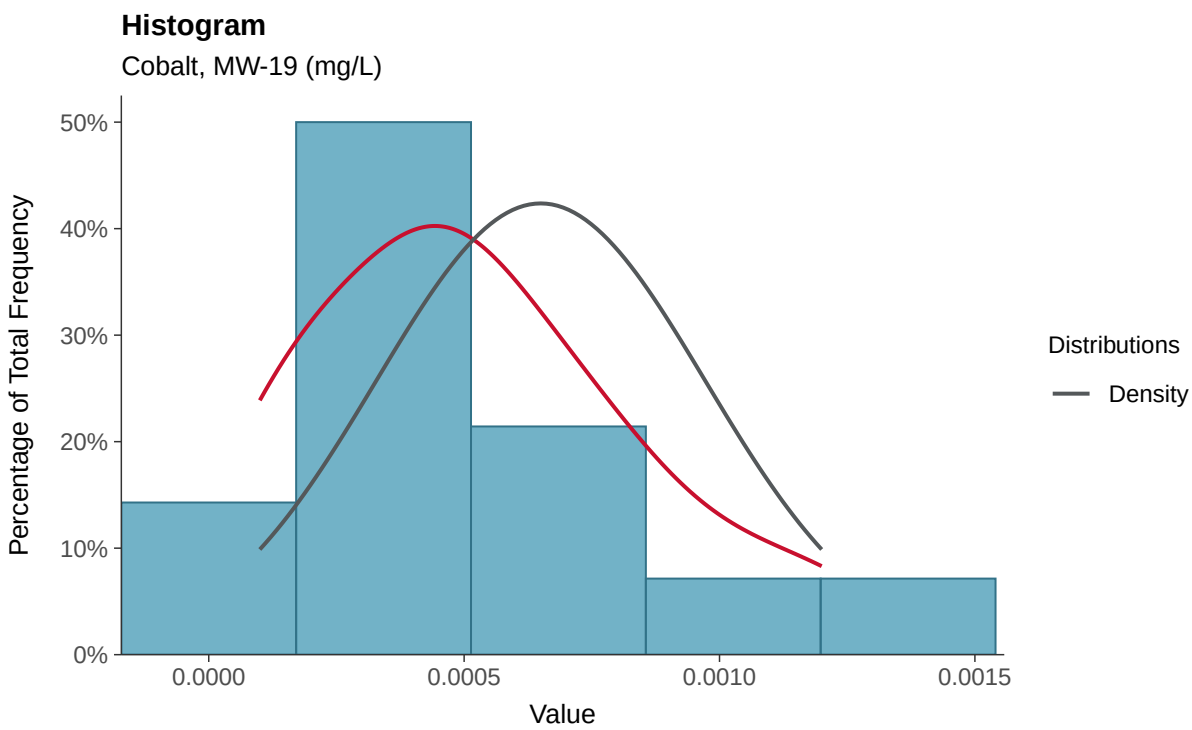
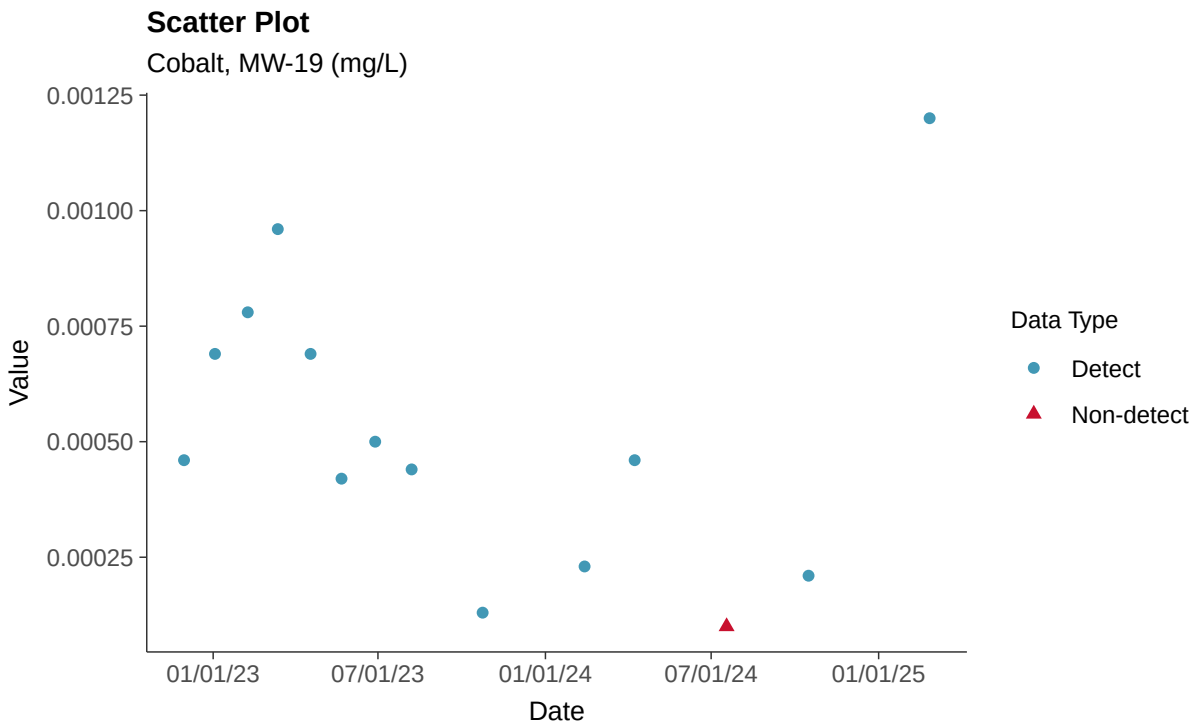


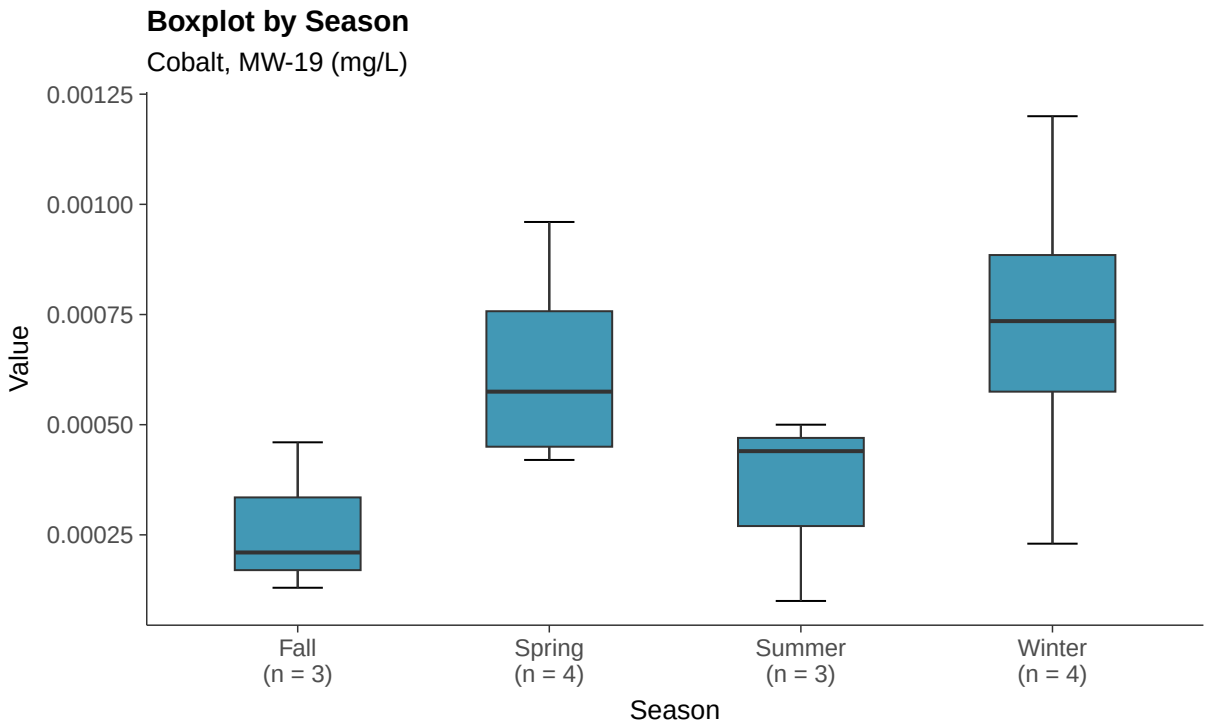
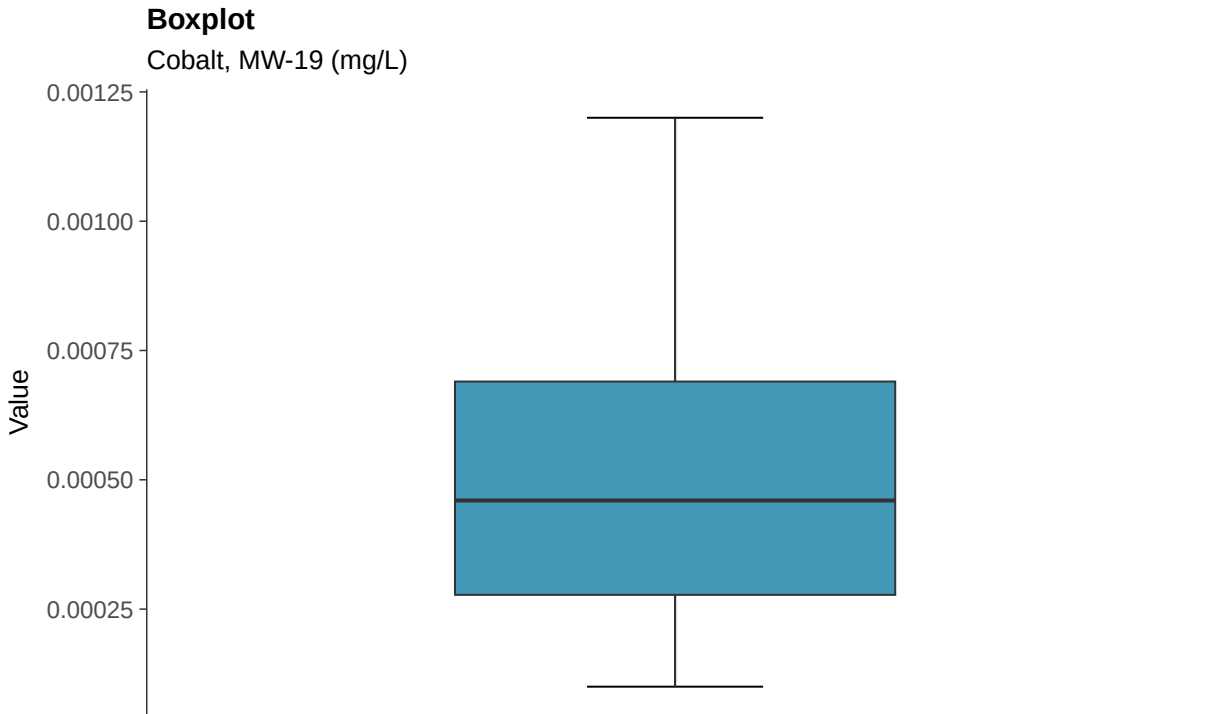


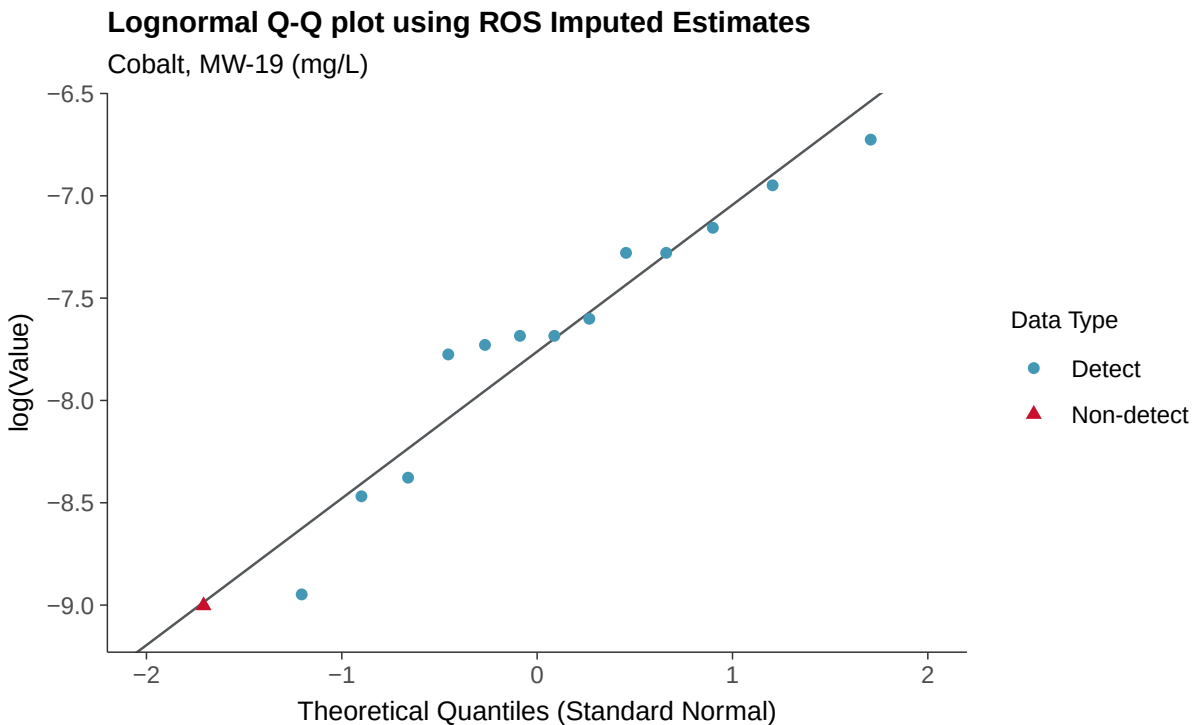
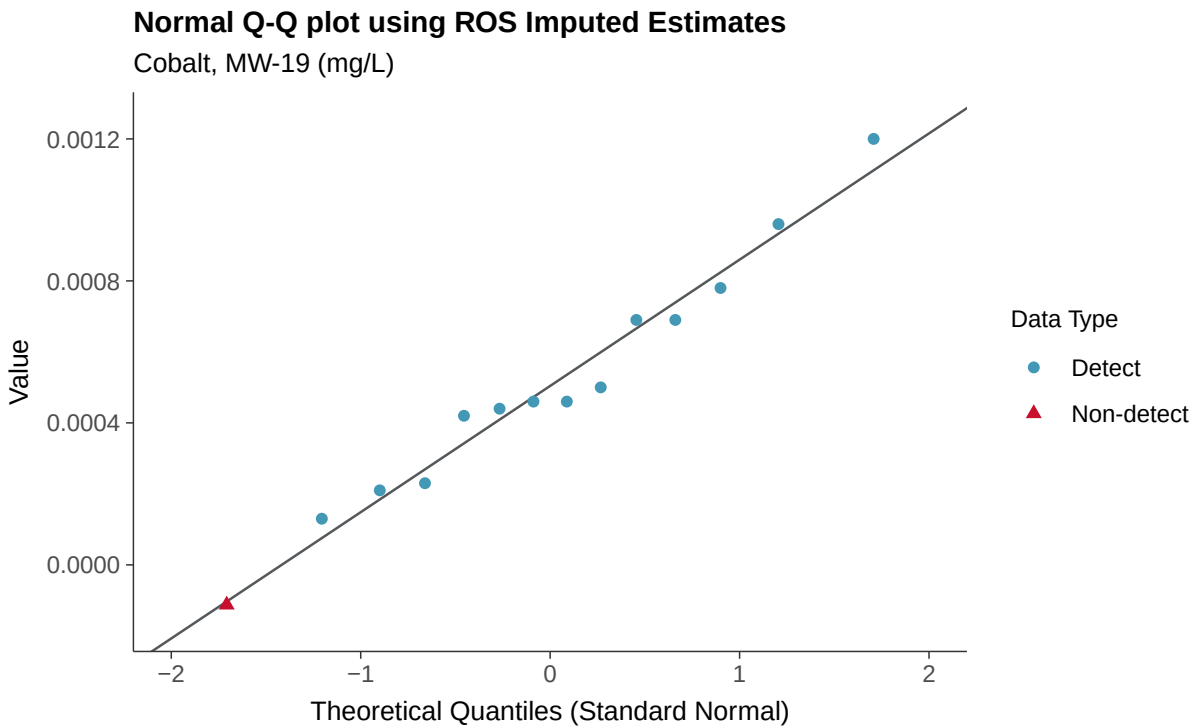


Appendix IV: Cobalt, MW-19

ID: 29_1_4_110



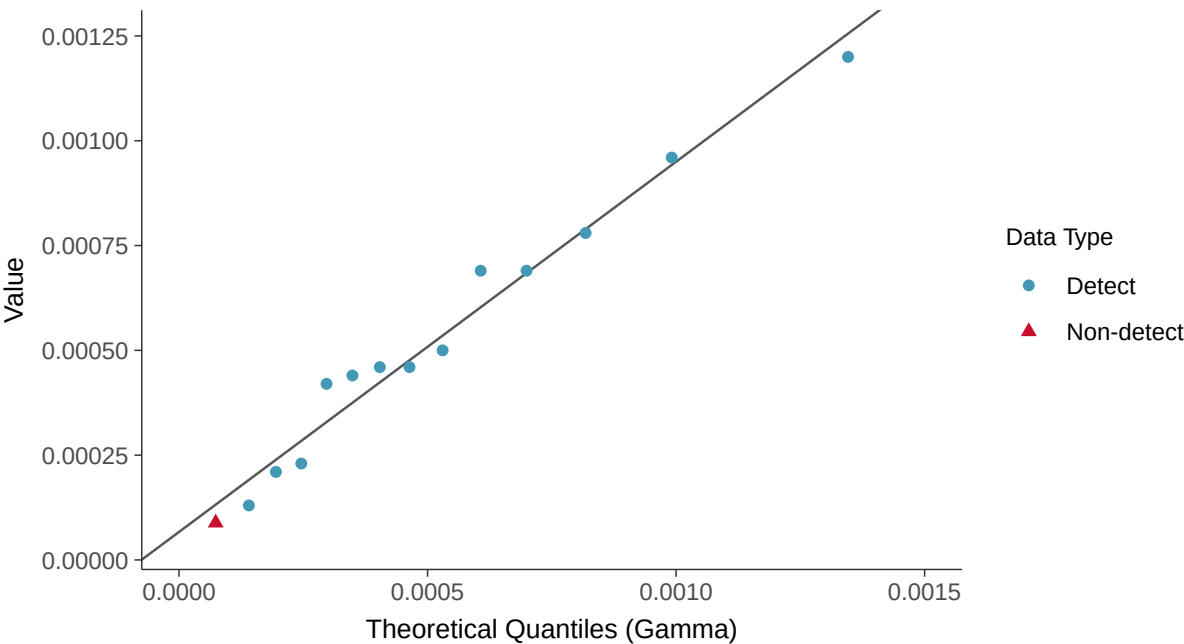






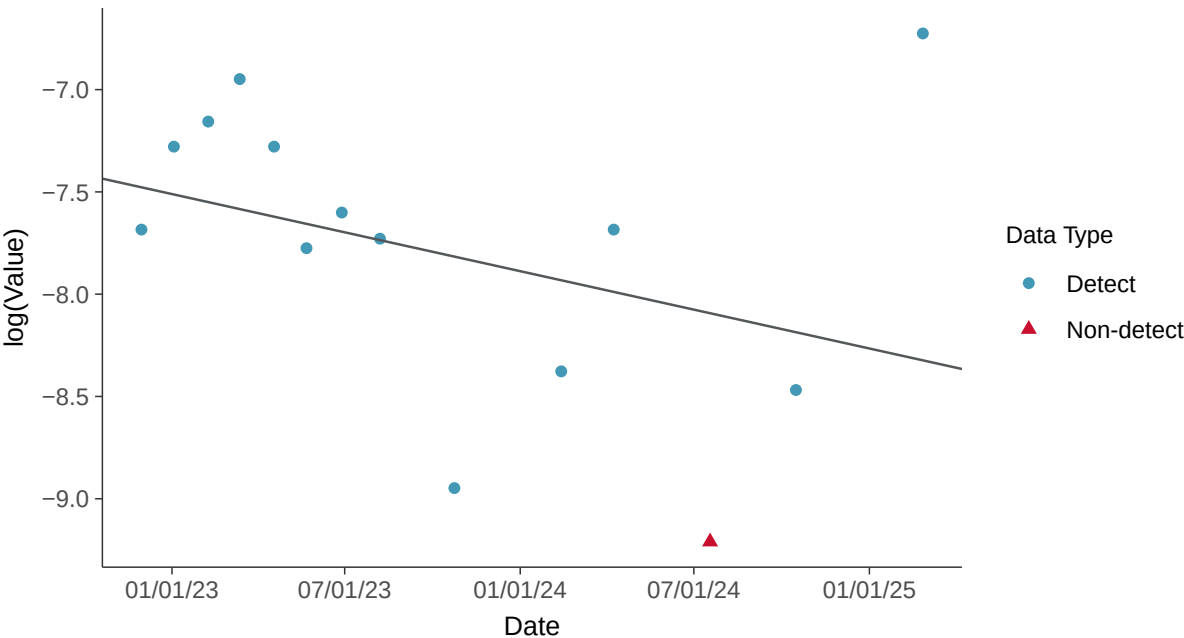
Gamma Q-Q plot using ROS Imputed Estimates

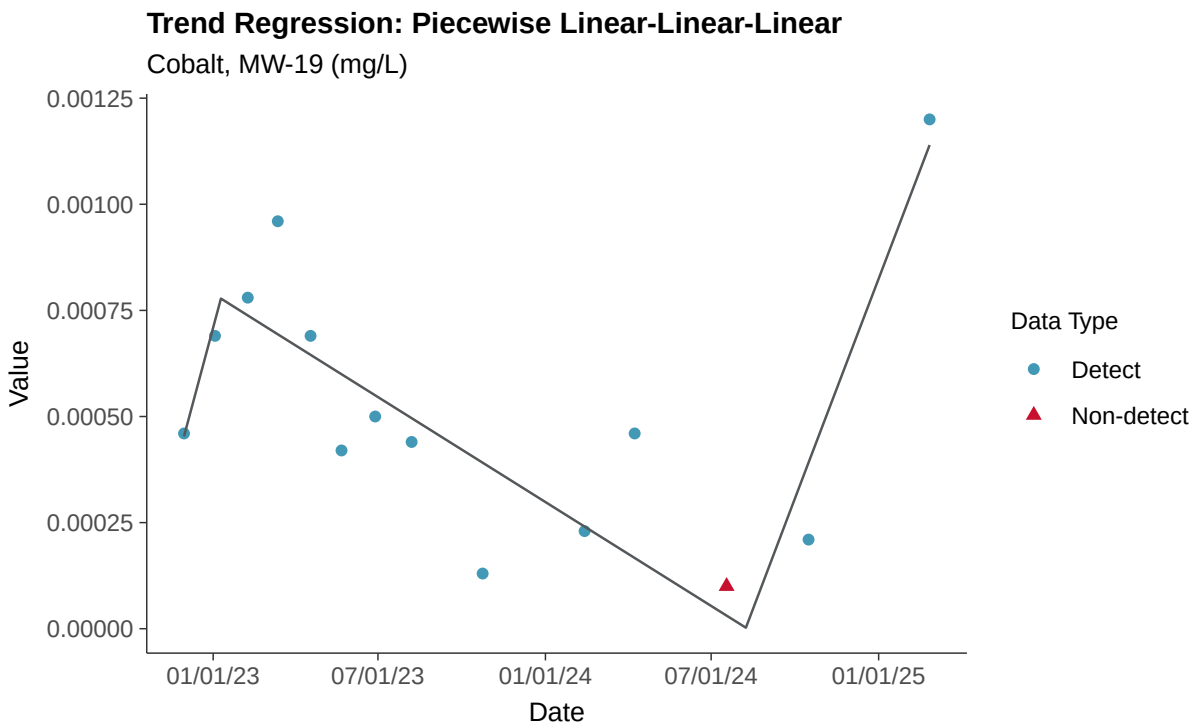
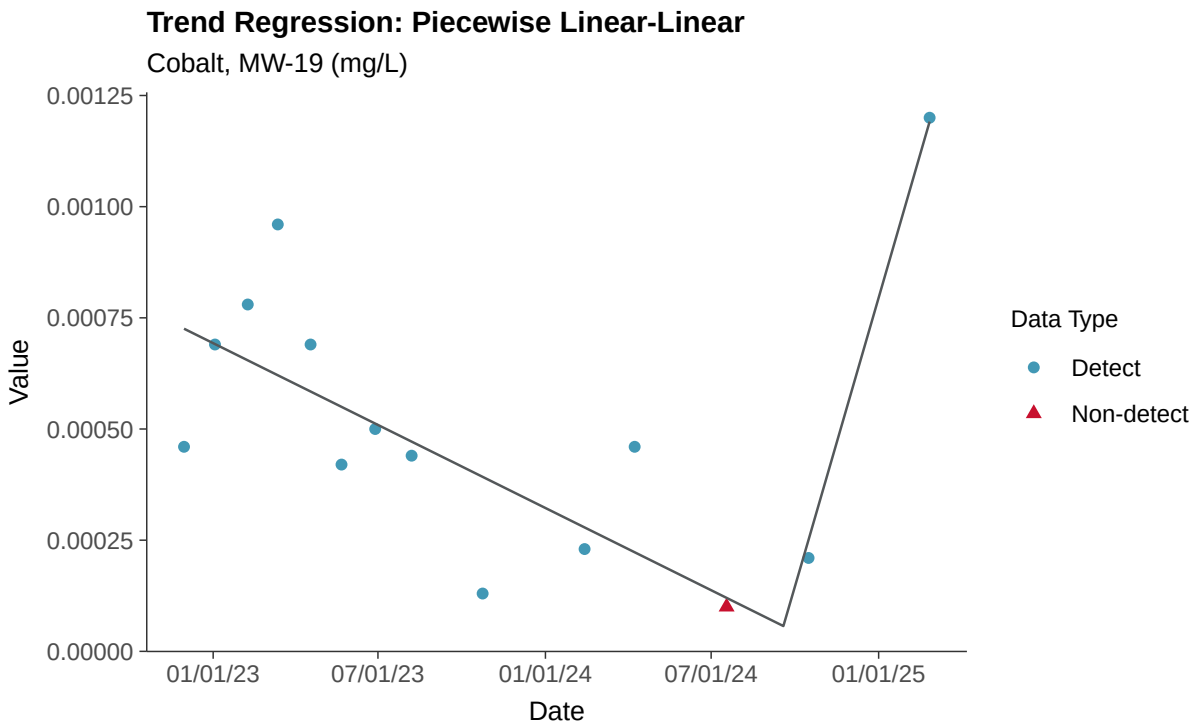
Cobalt, MW-19 (mg/L)



Trend Regression: Lognormal MLE

Cobalt, MW-19 (mg/L)

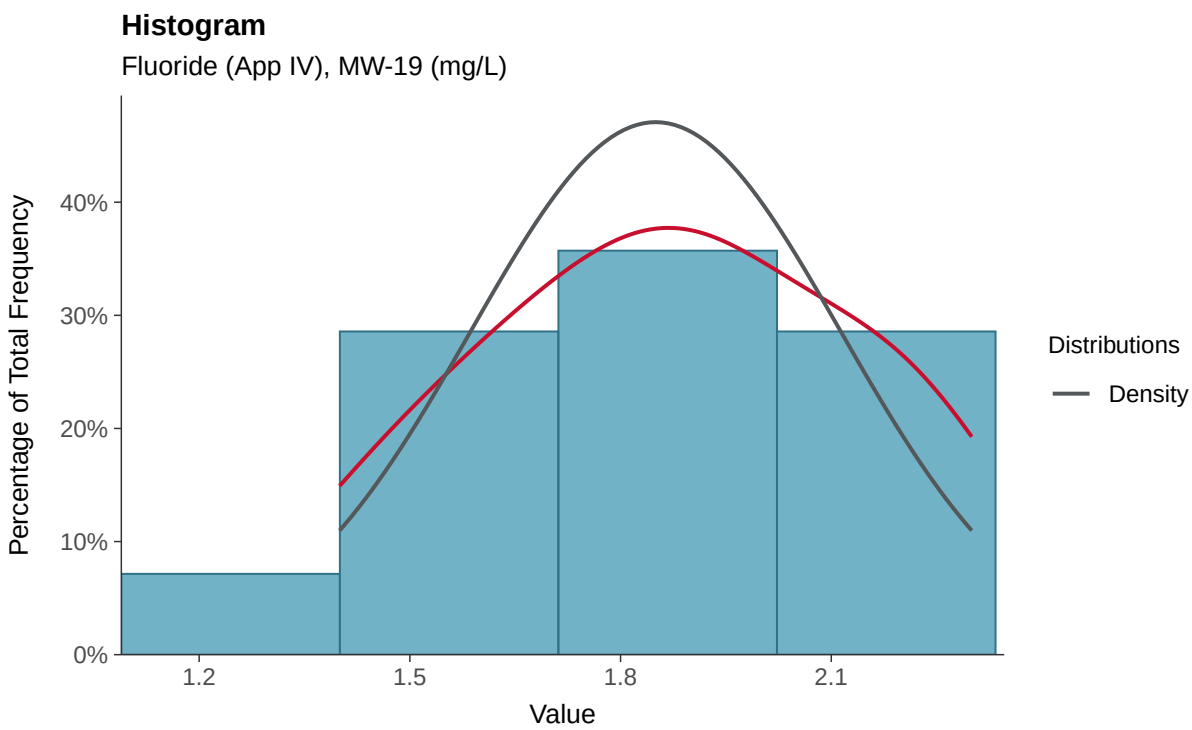
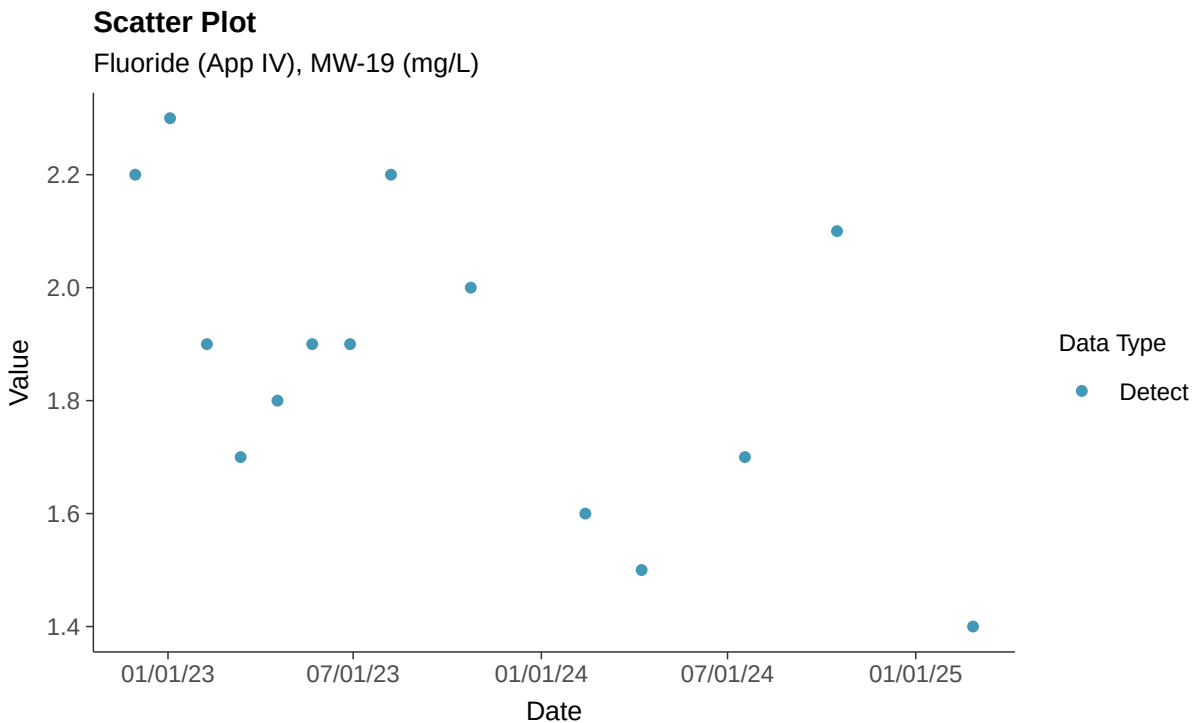






Appendix IV: Fluoride (App IV), MW-19

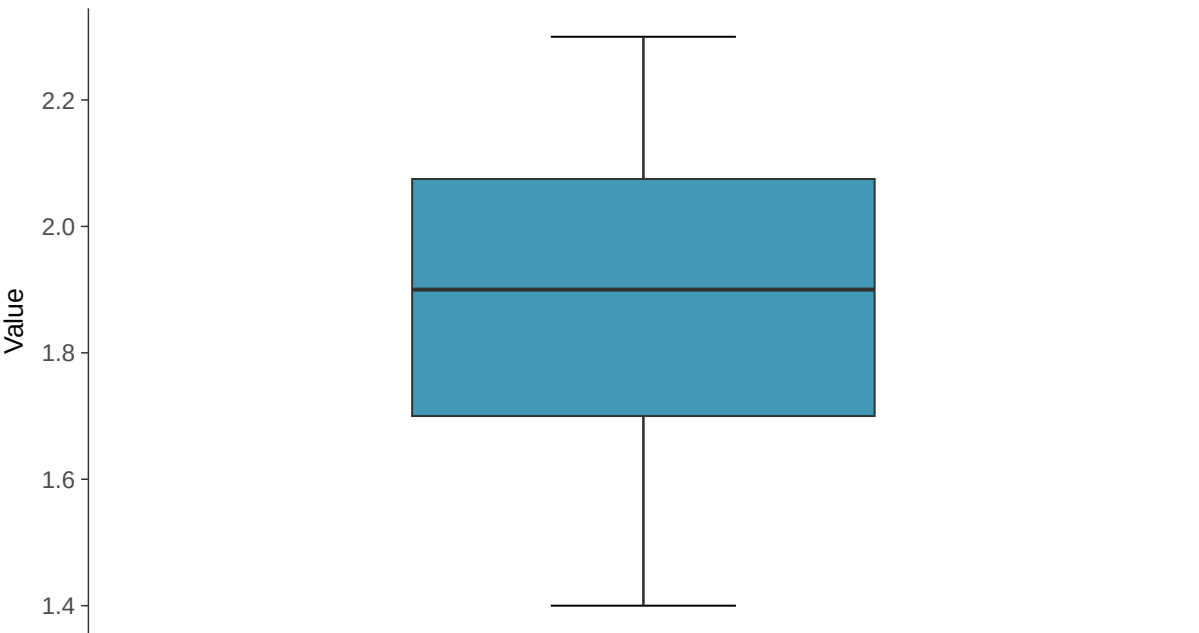
ID: 29_1_4_113





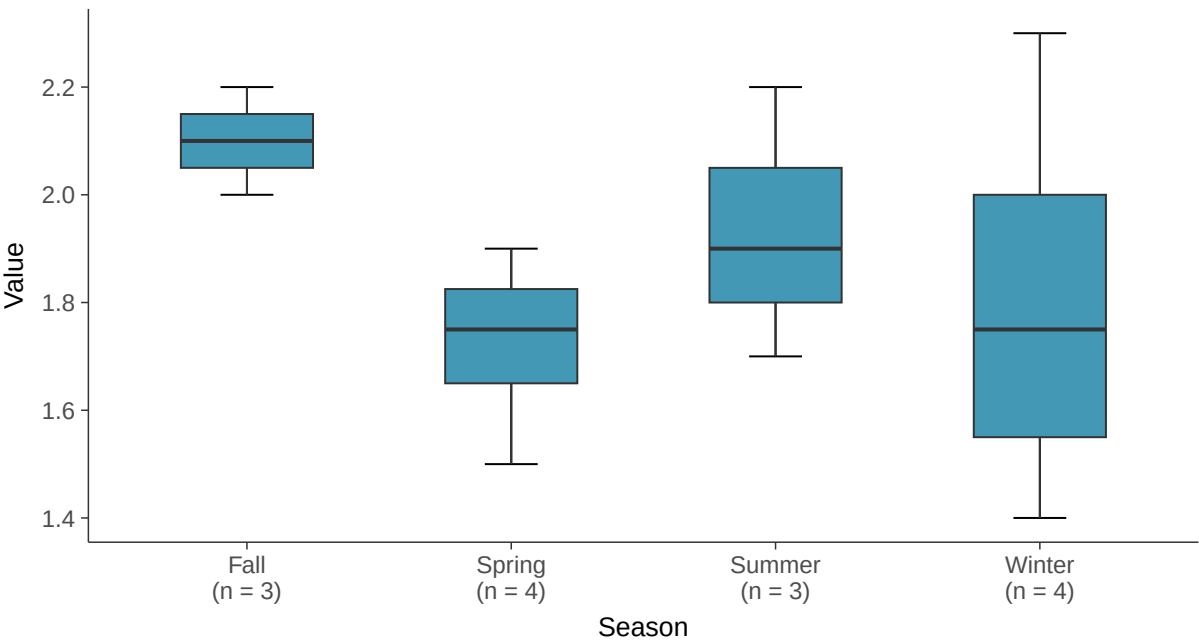
Boxplot

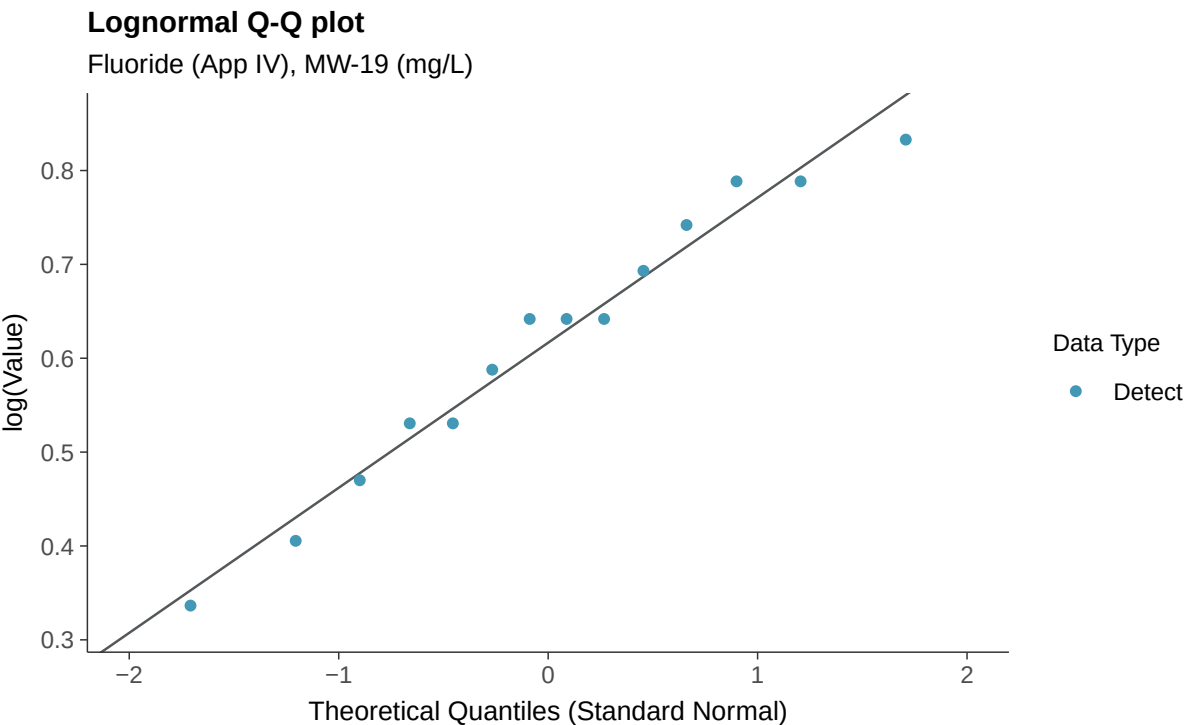
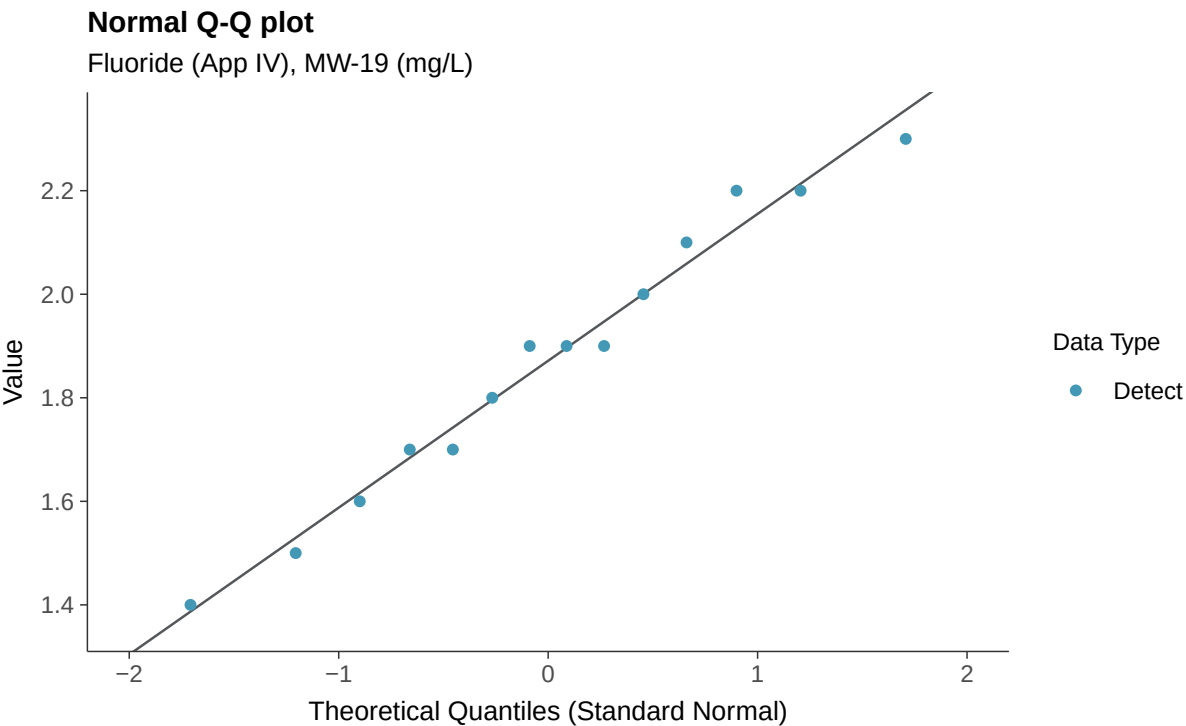
Fluoride (App IV), MW-19 (mg/L)

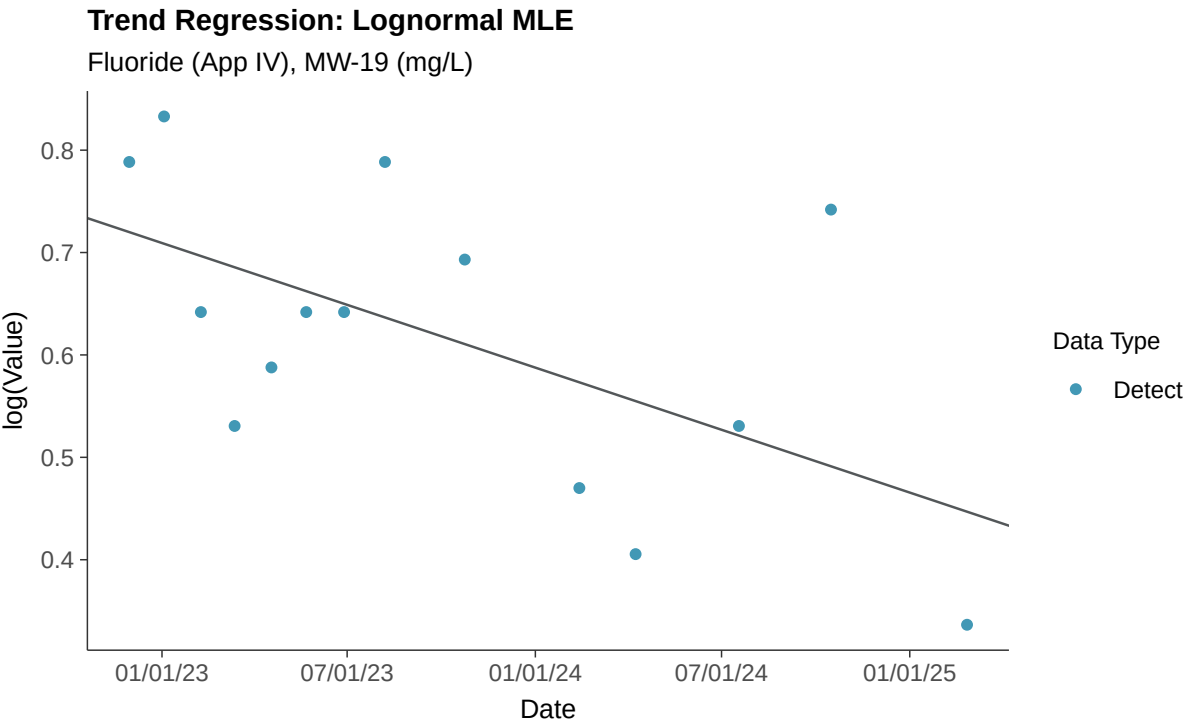
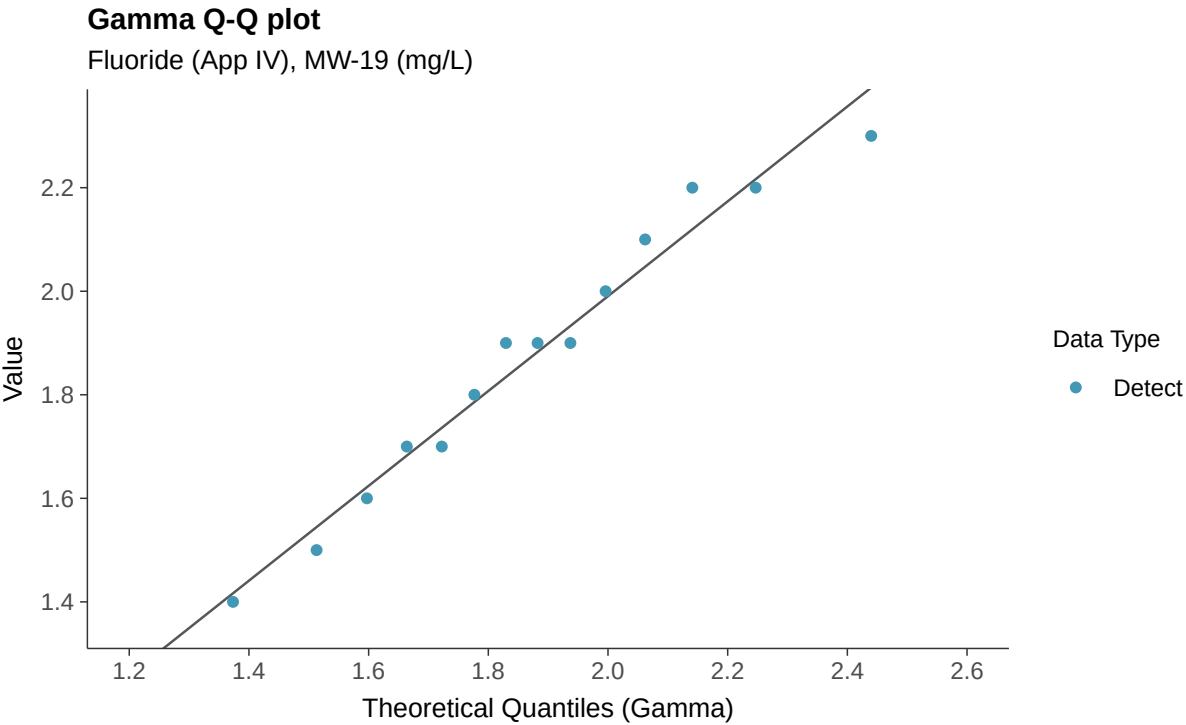


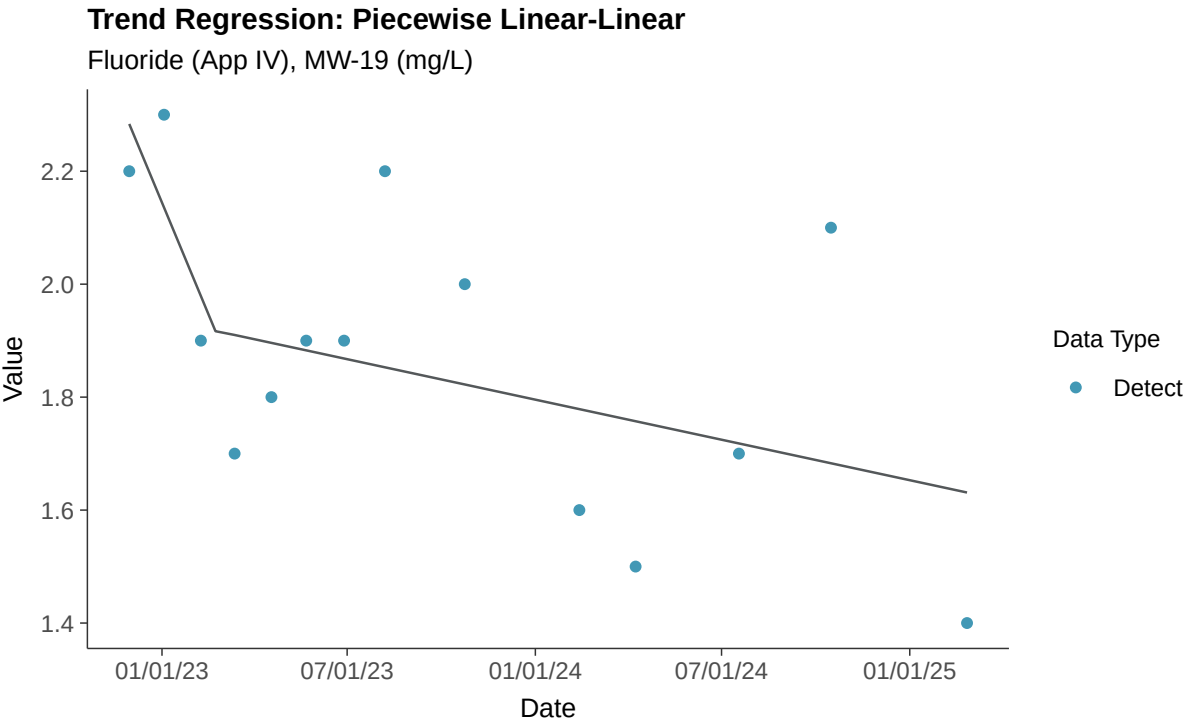
Boxplot by Season

Fluoride (App IV), MW-19 (mg/L)





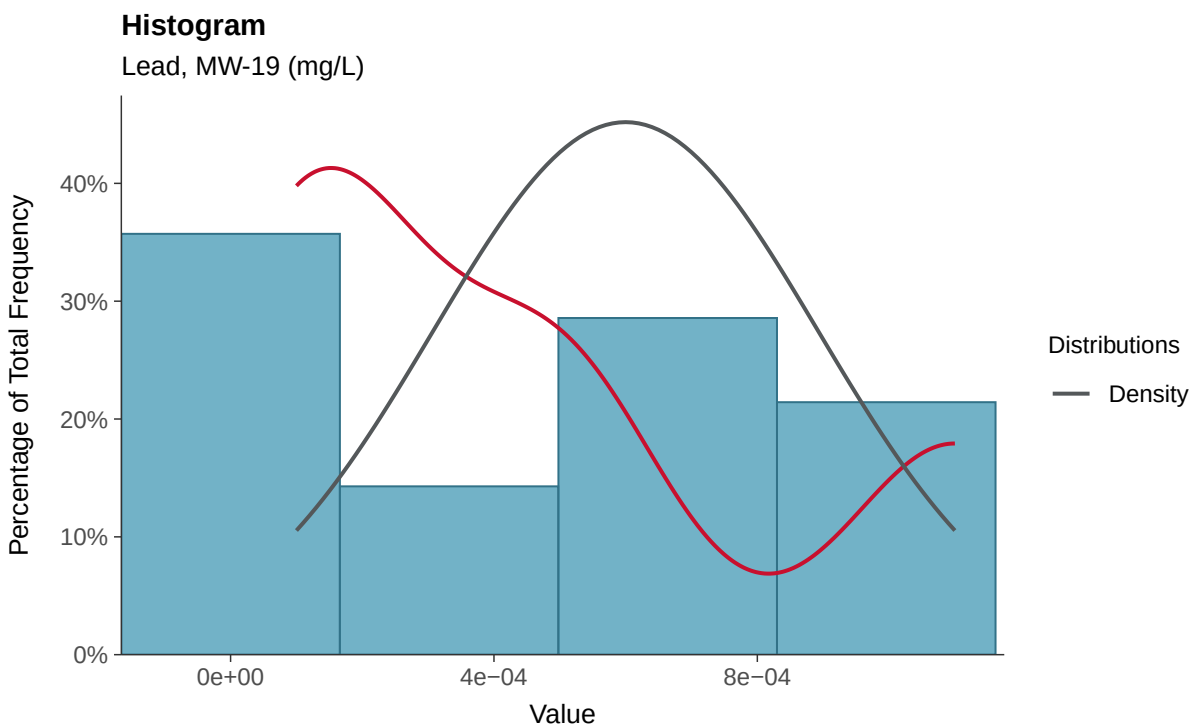
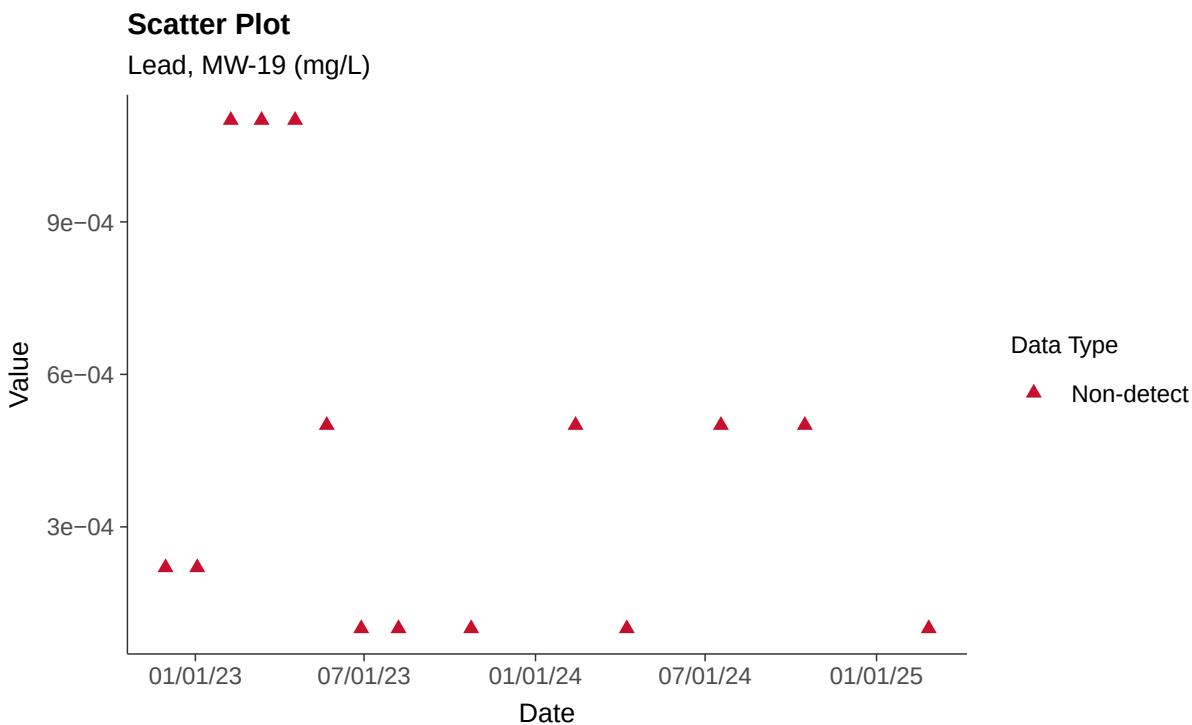


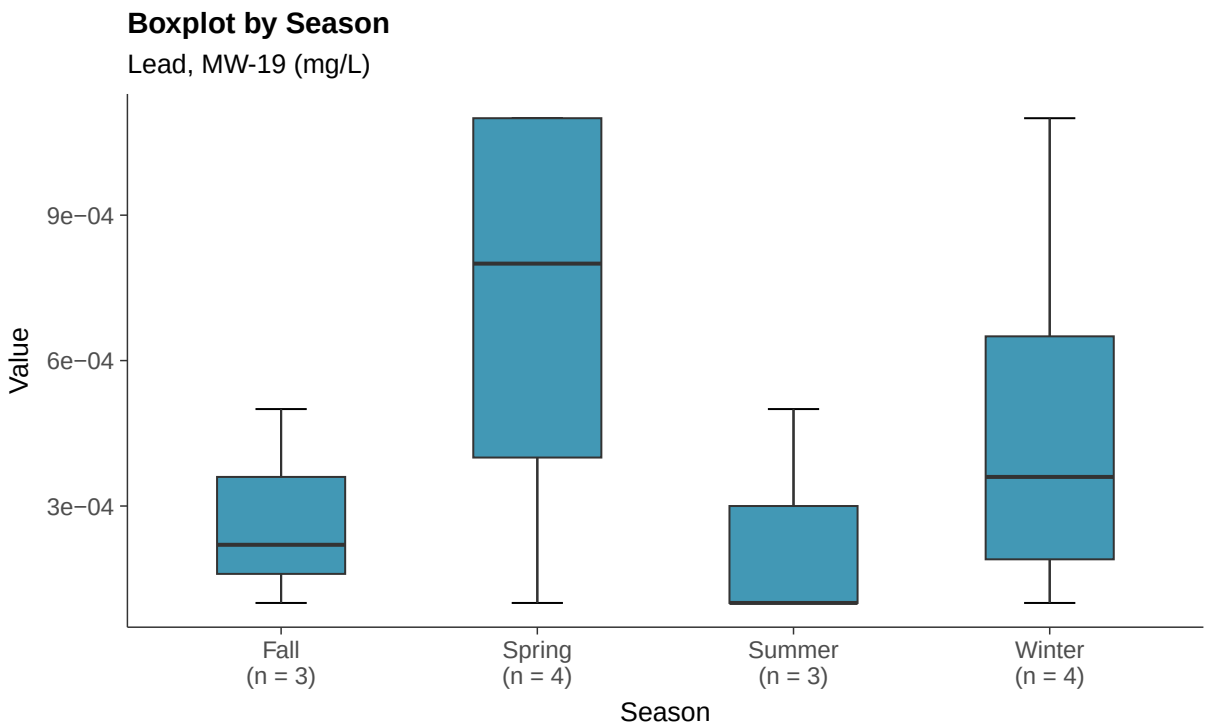
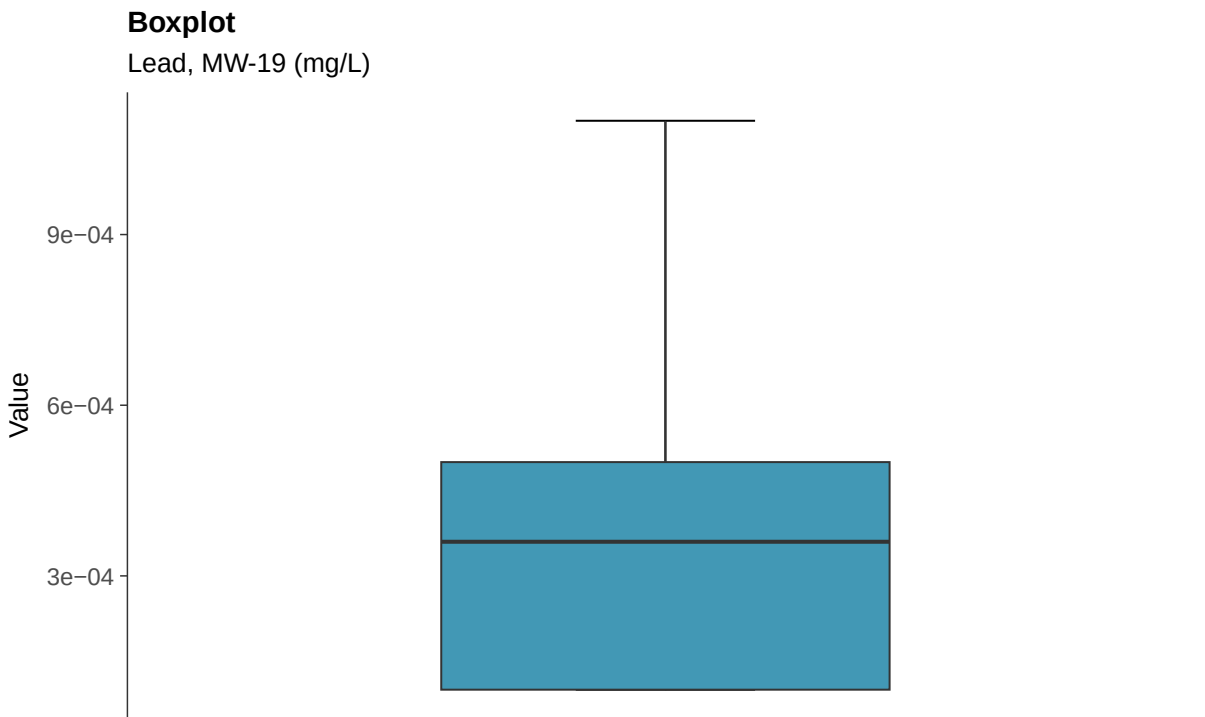


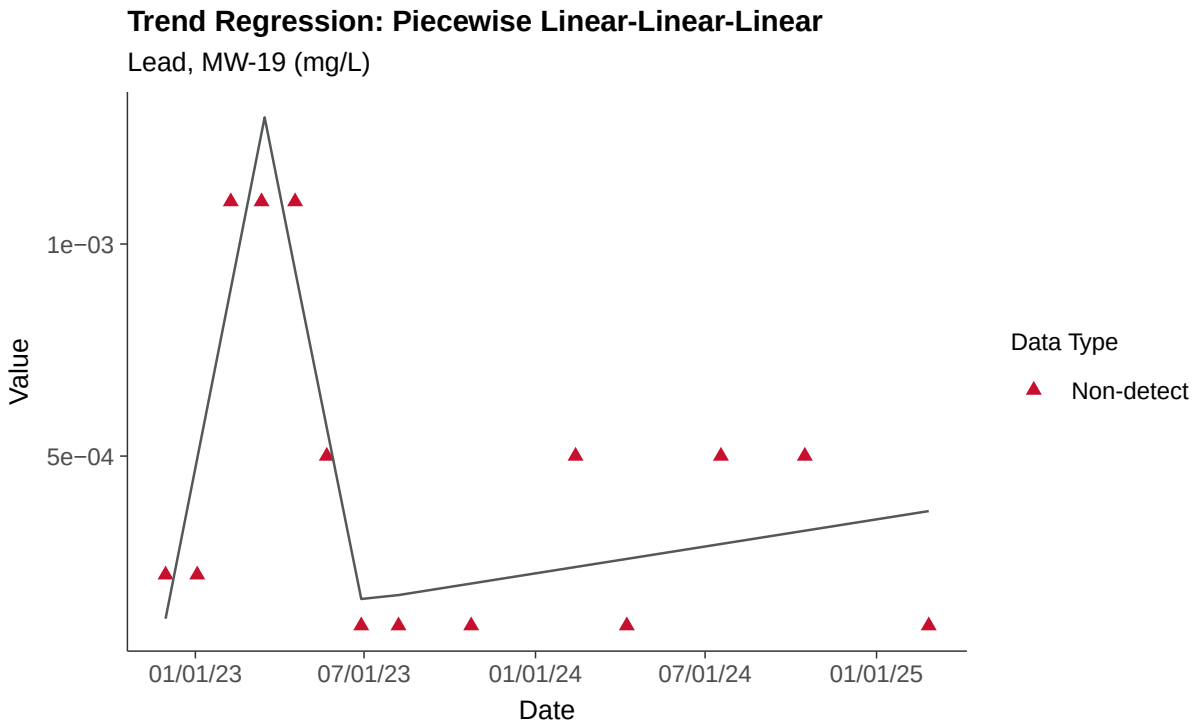
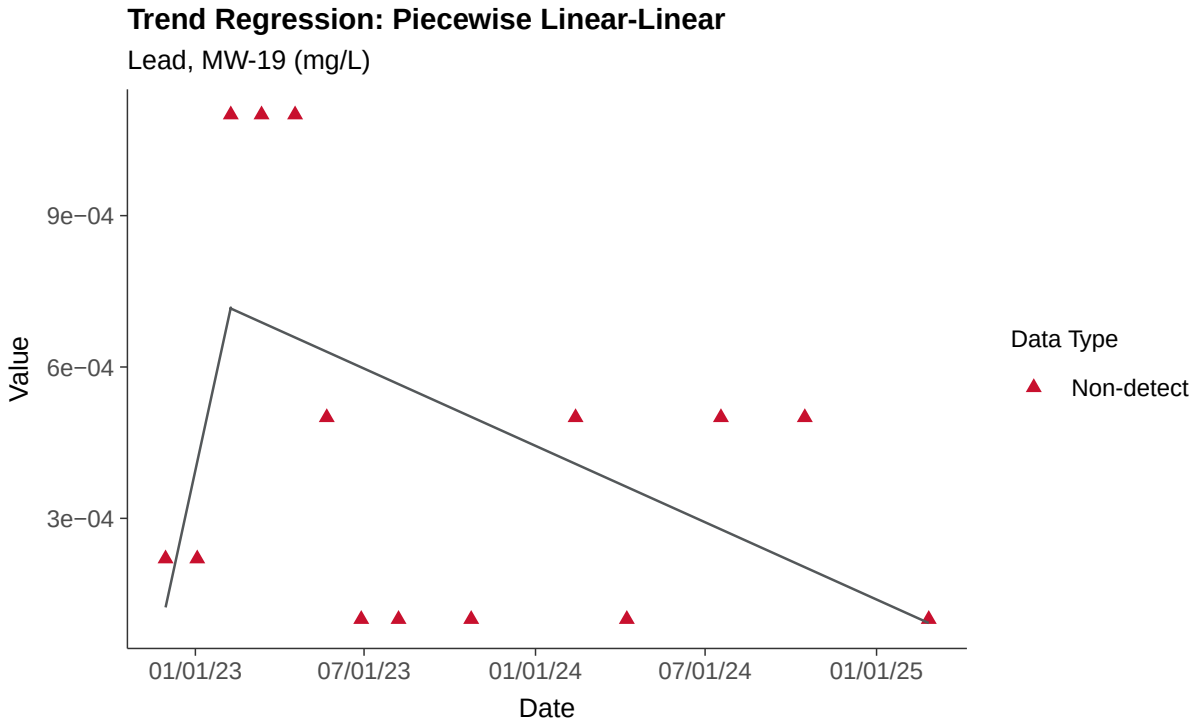


Appendix IV: Lead, MW-19

ID: 29_1_4_115



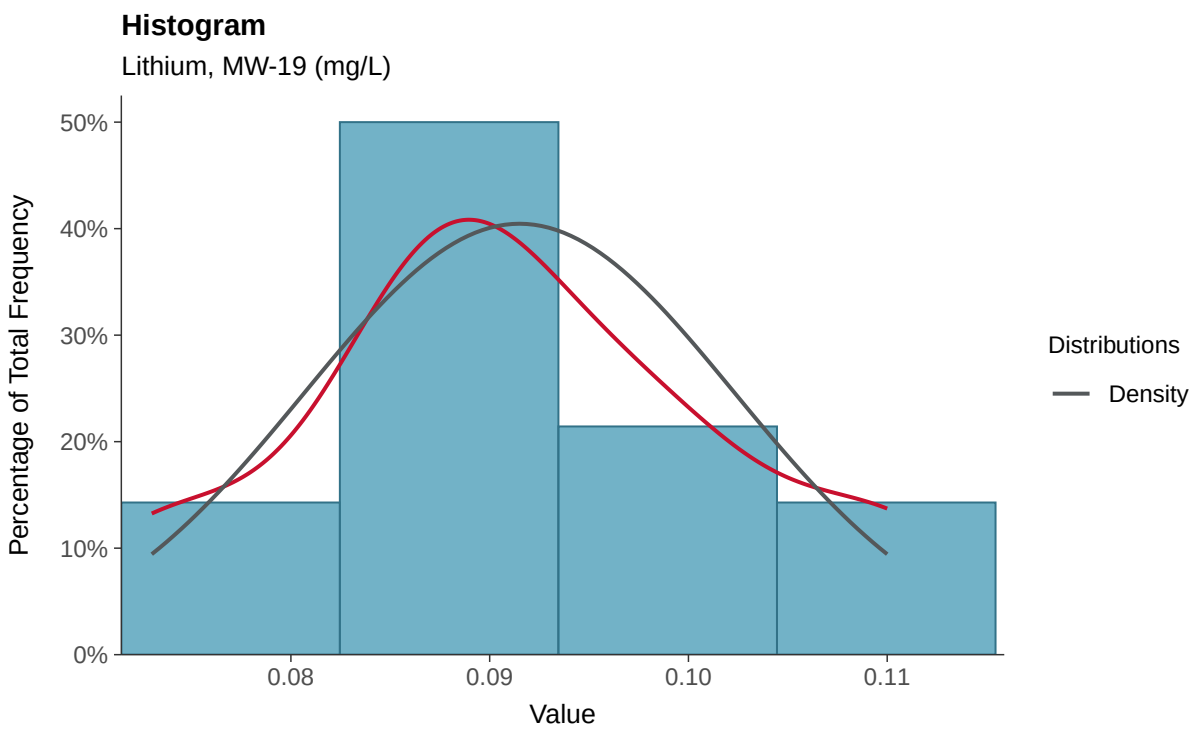
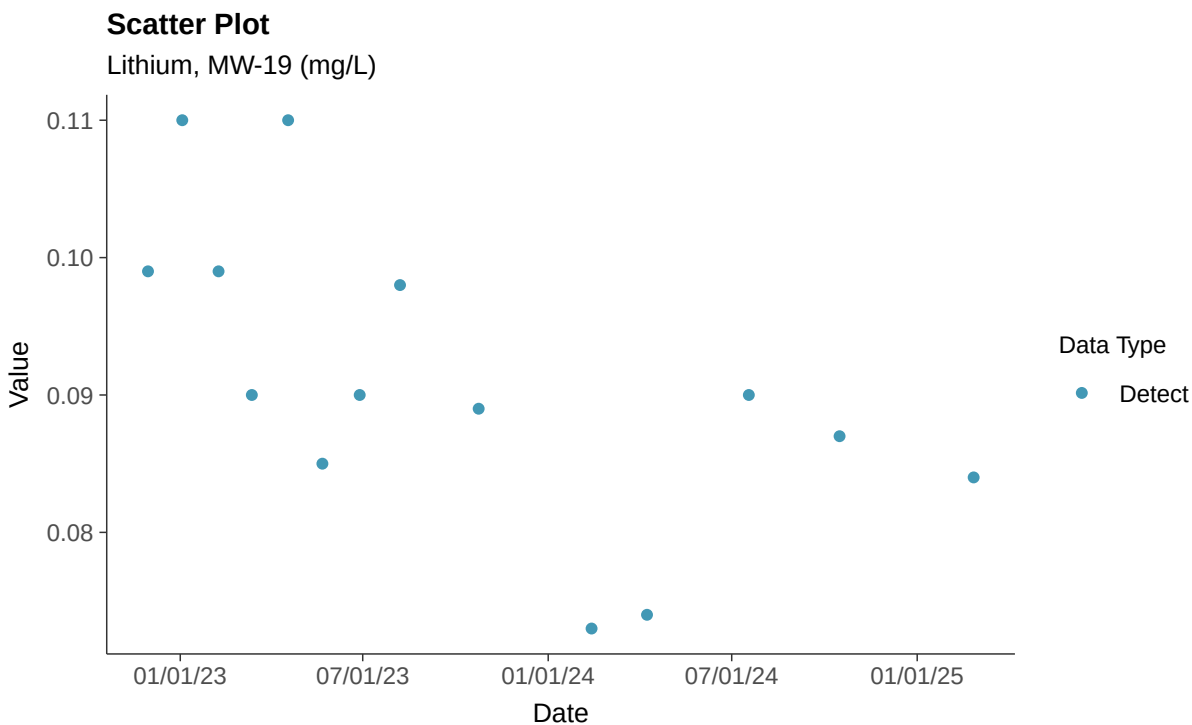


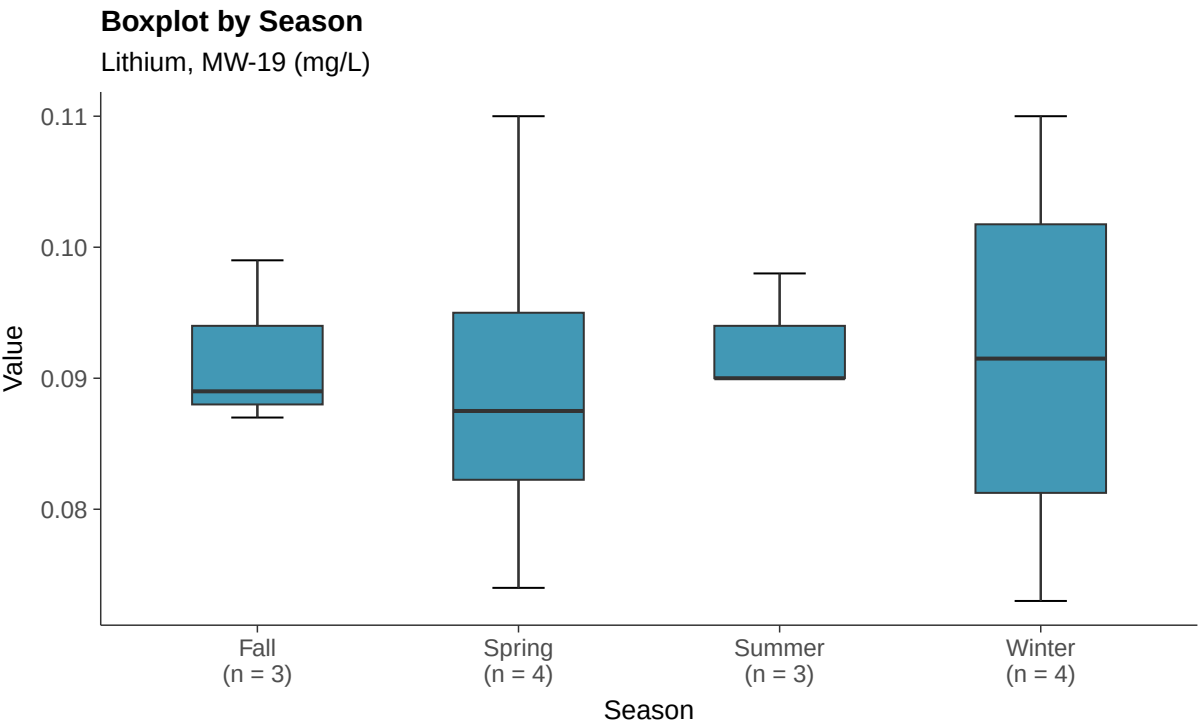
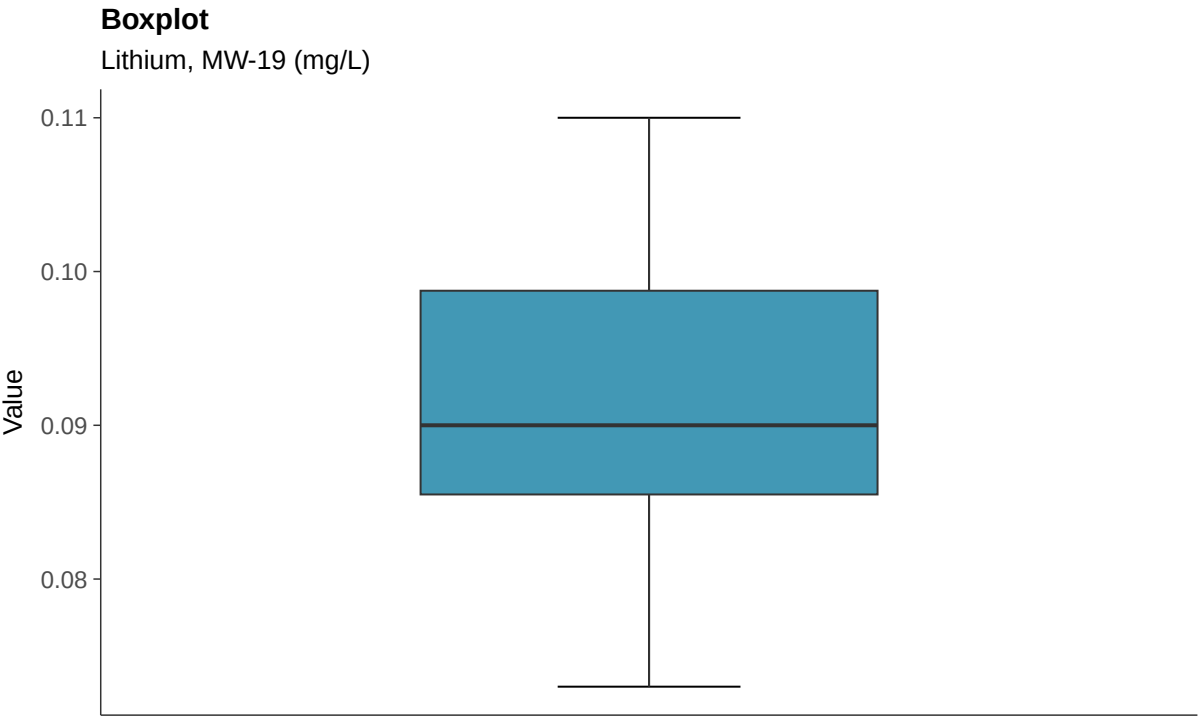


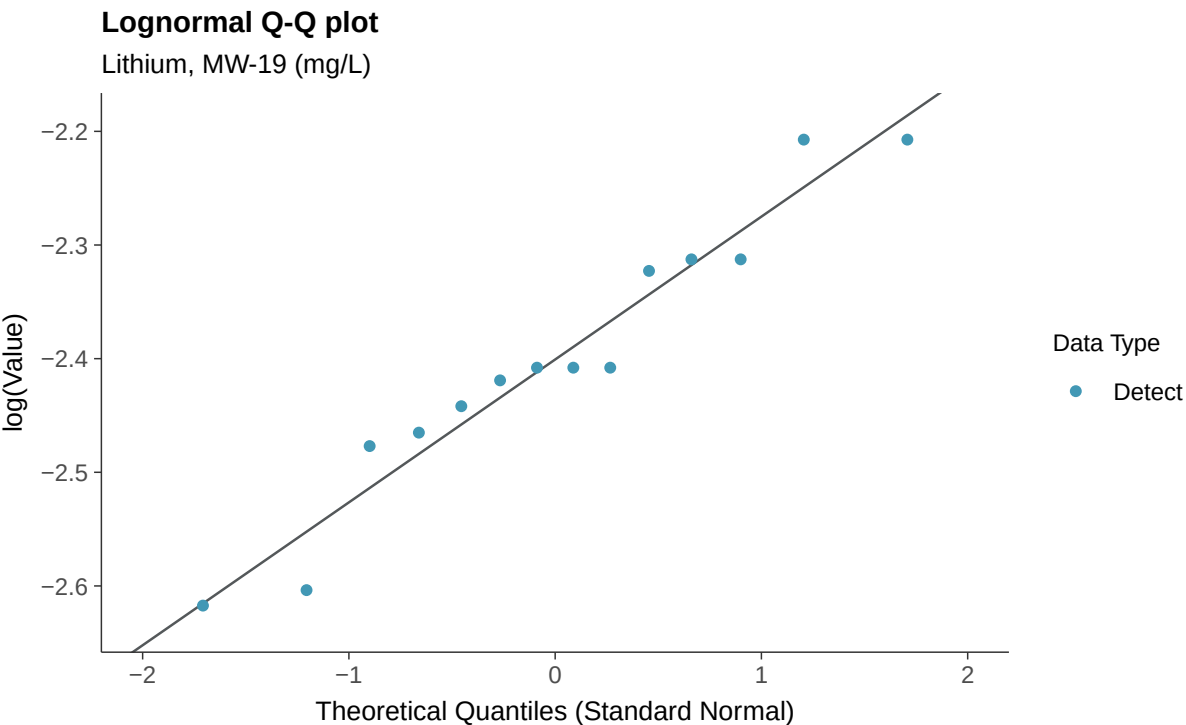
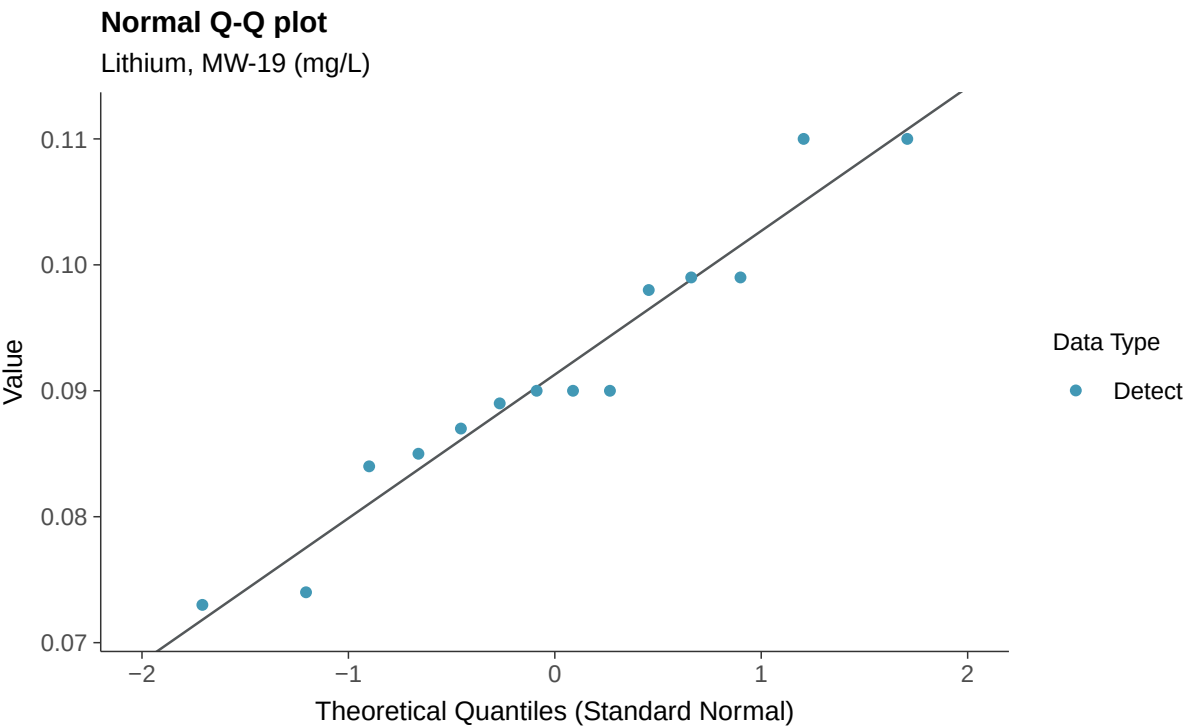


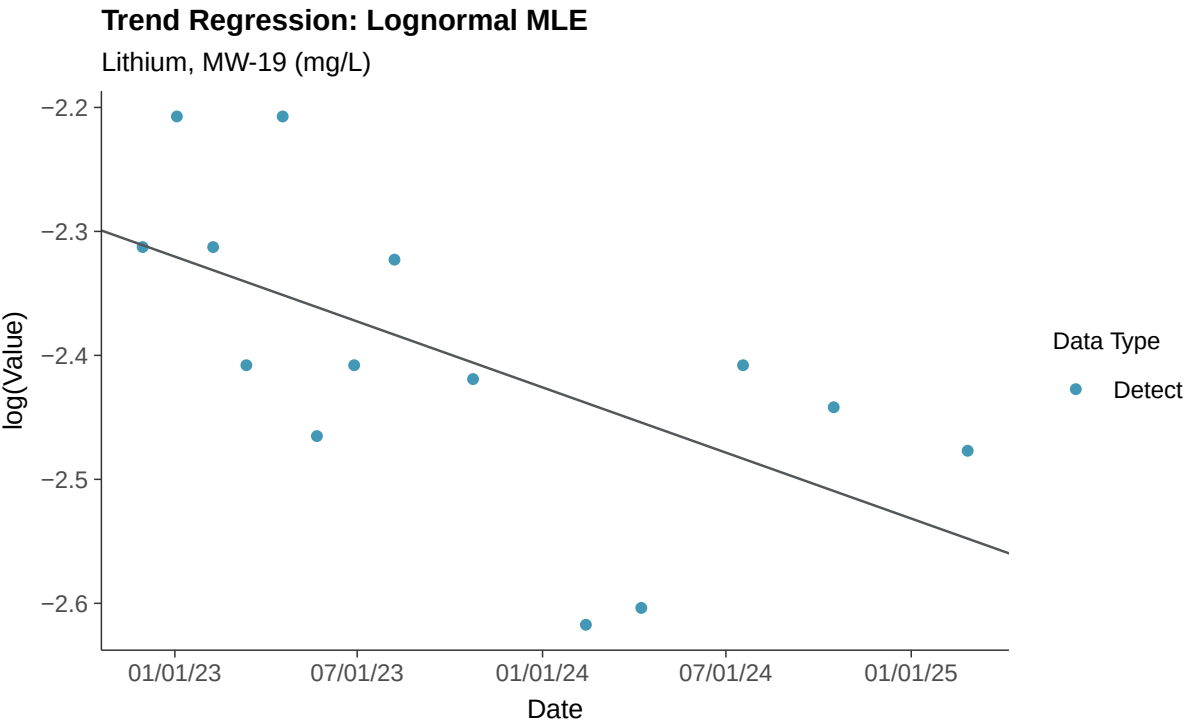
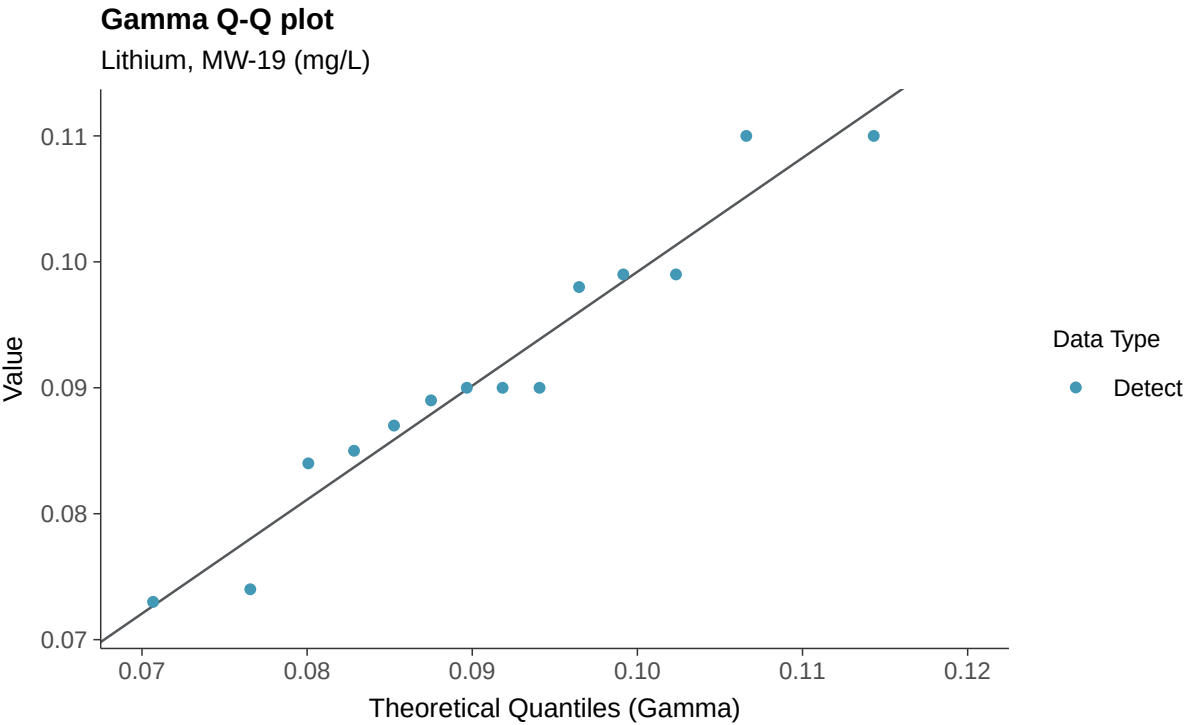
Appendix IV: Lithium, MW-19

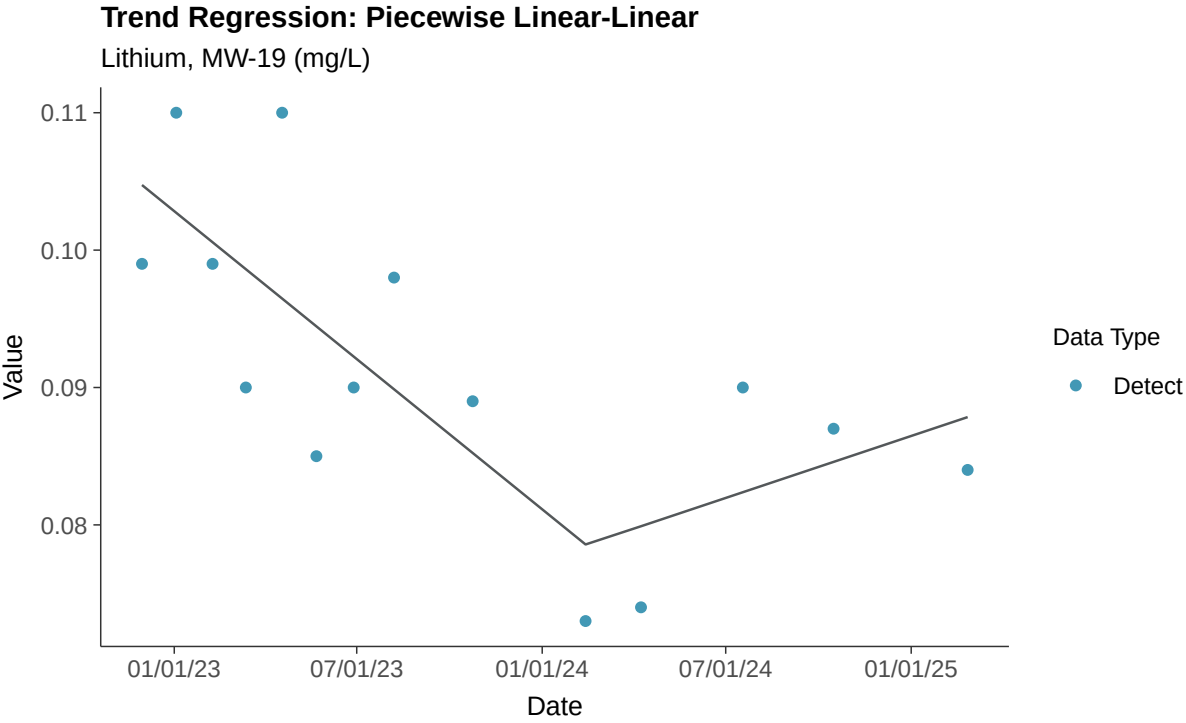
ID: 29_1_4_116







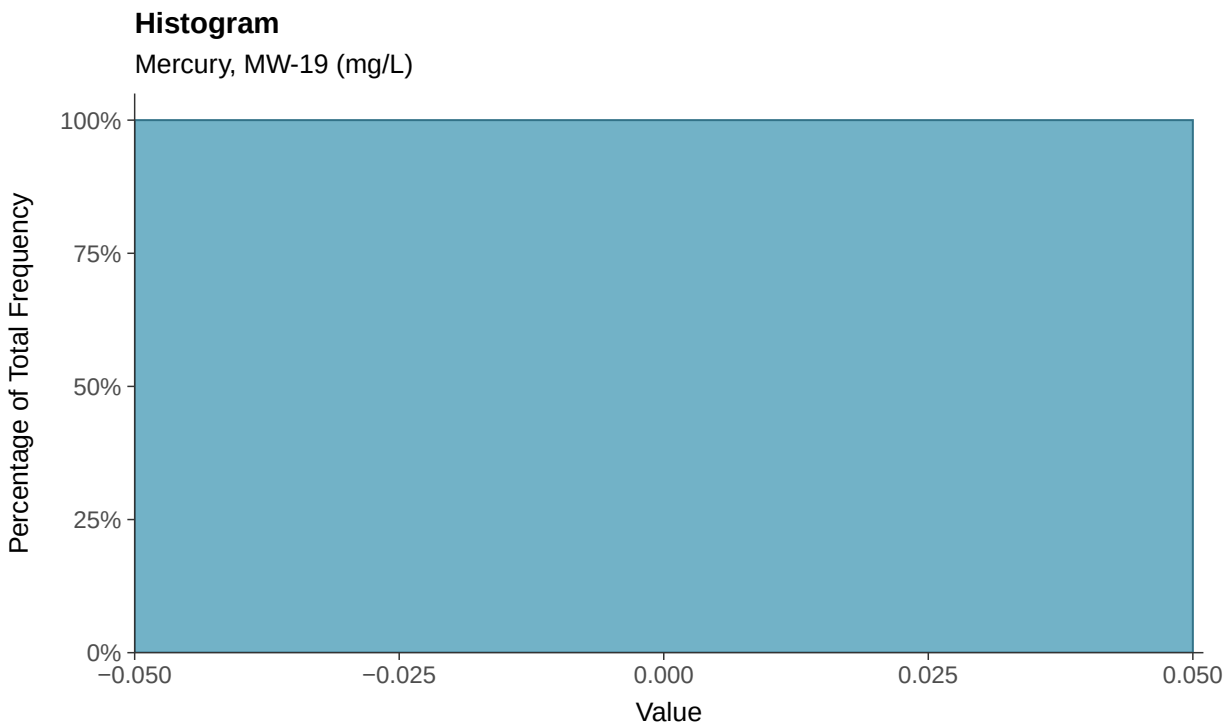
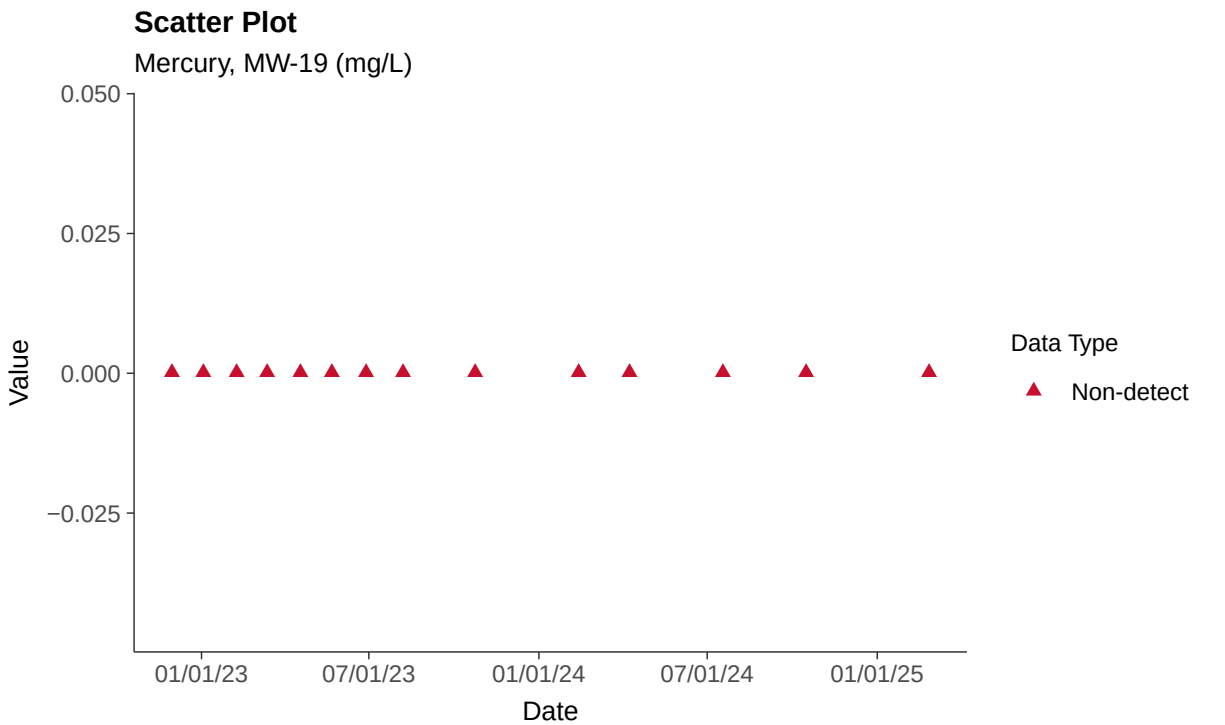


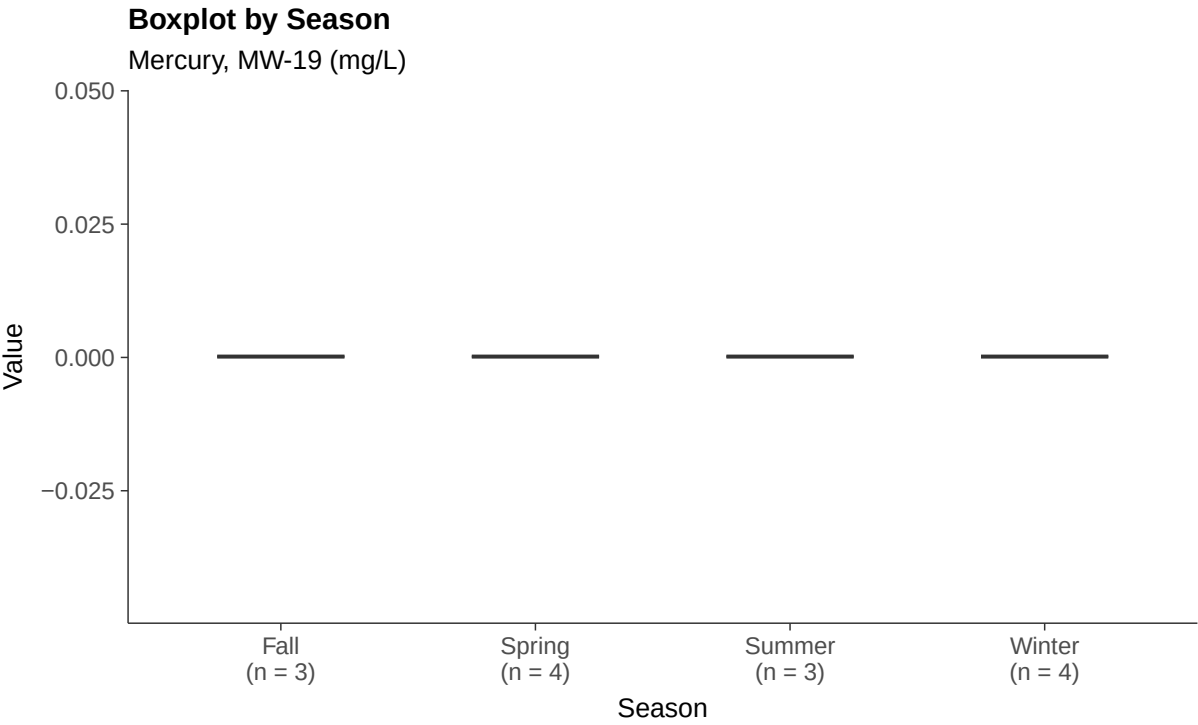
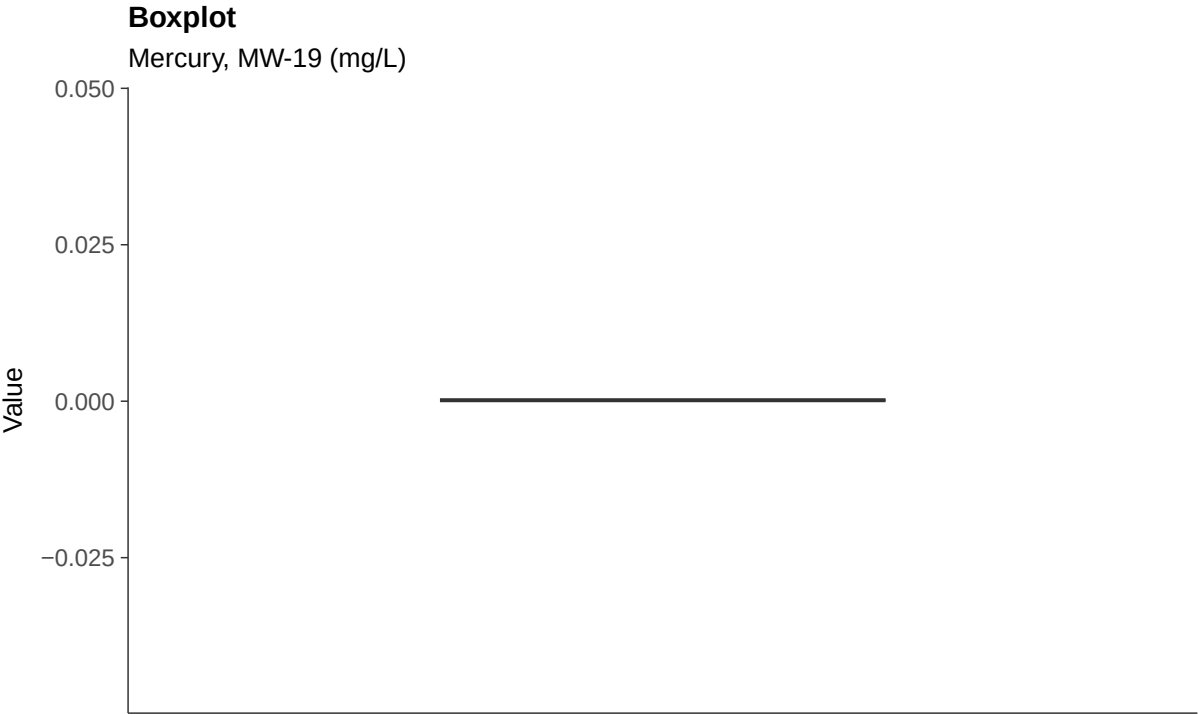




Appendix IV: Mercury, MW-19

ID: 29_1_4_117

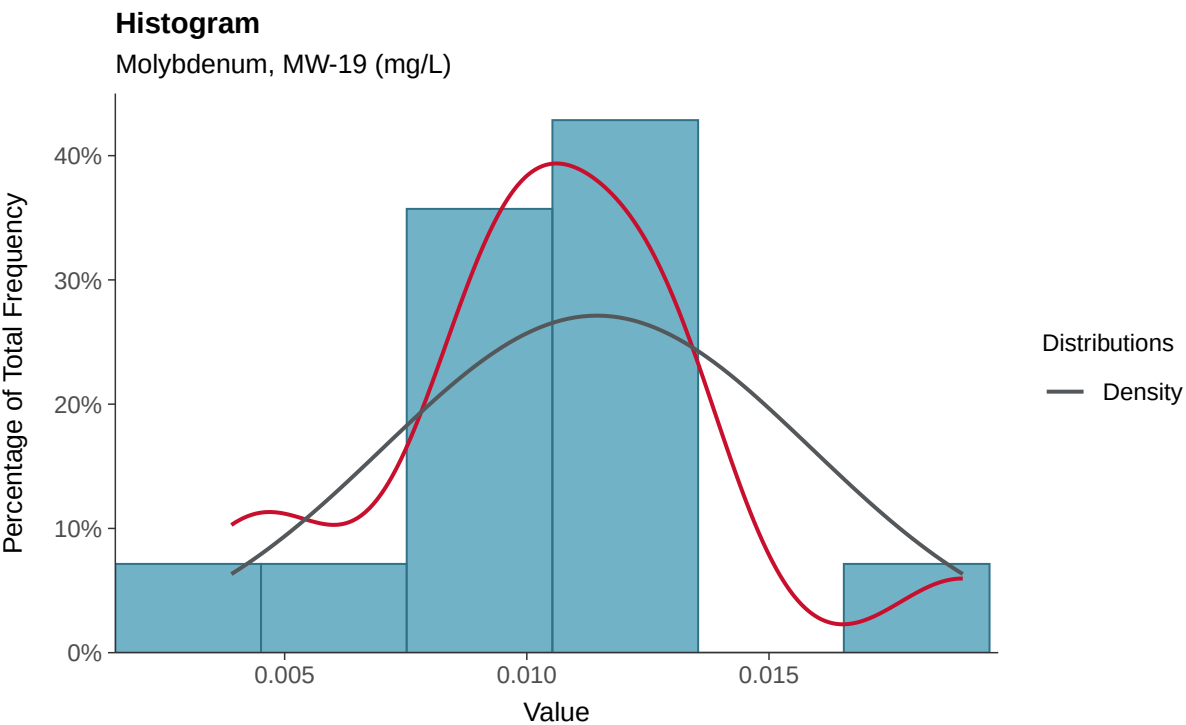
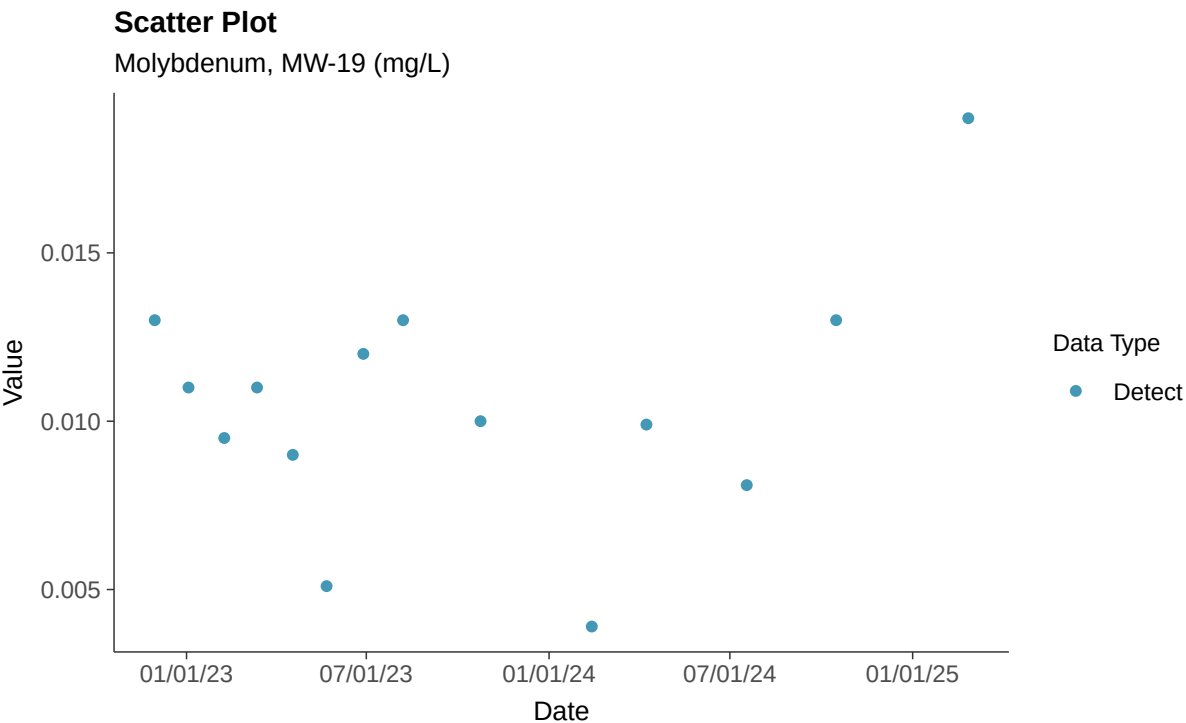


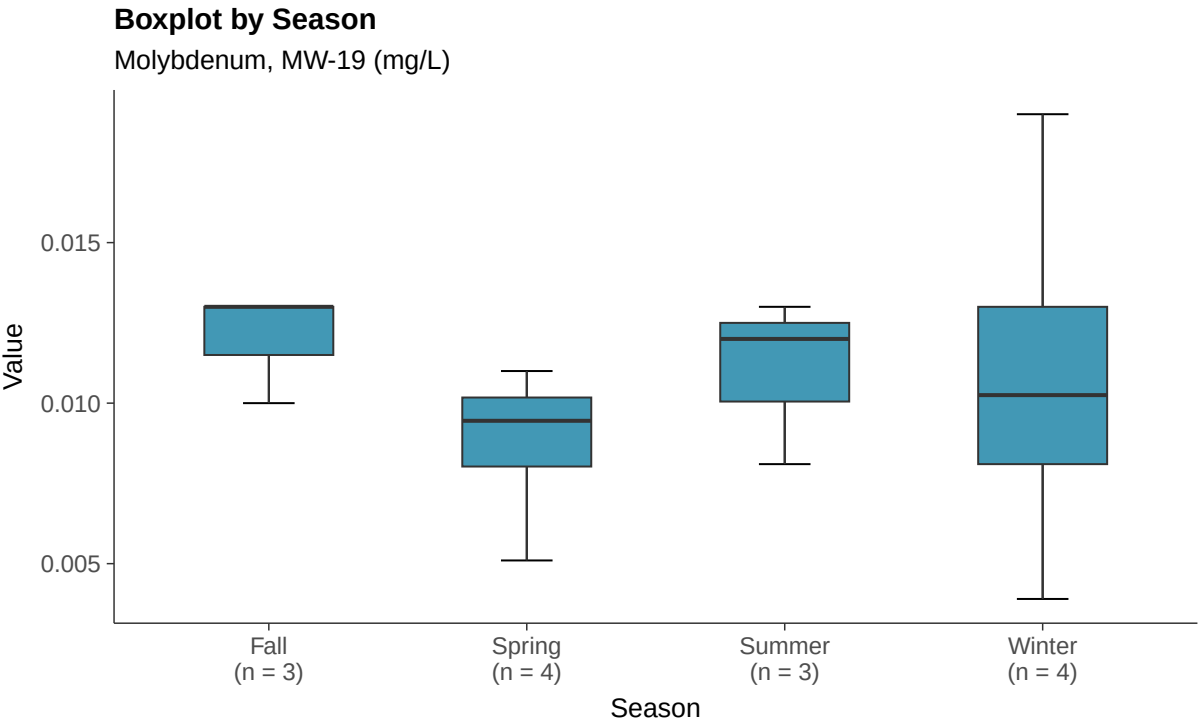
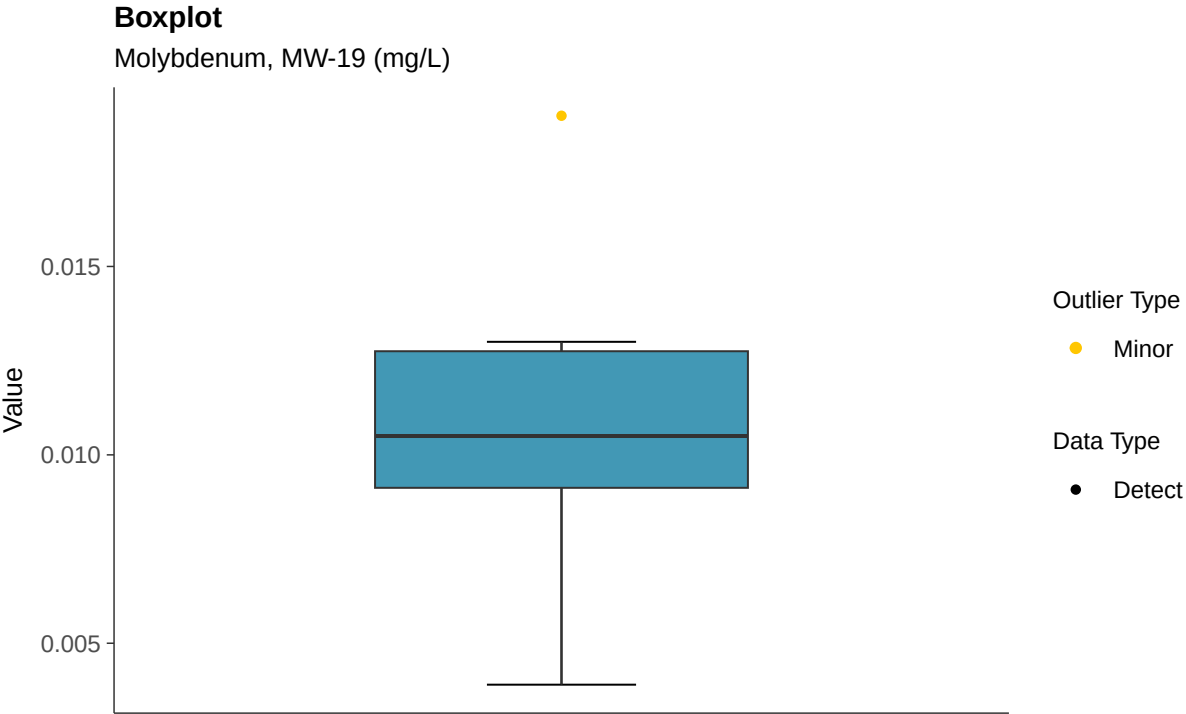


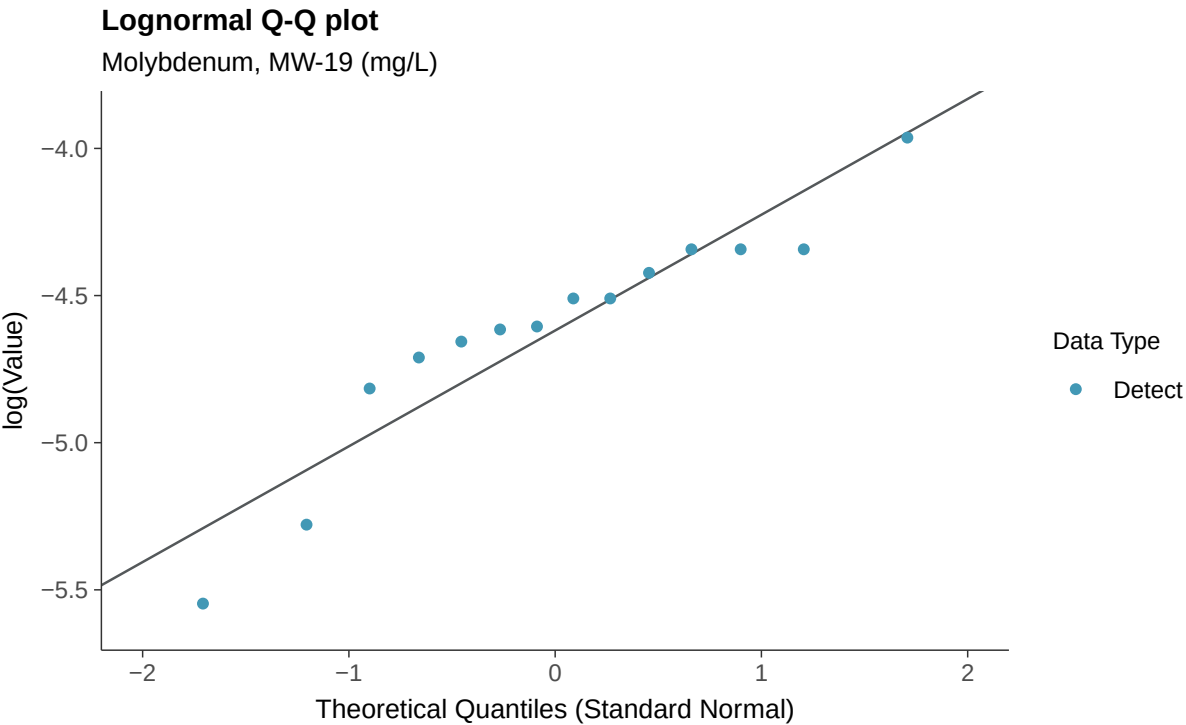
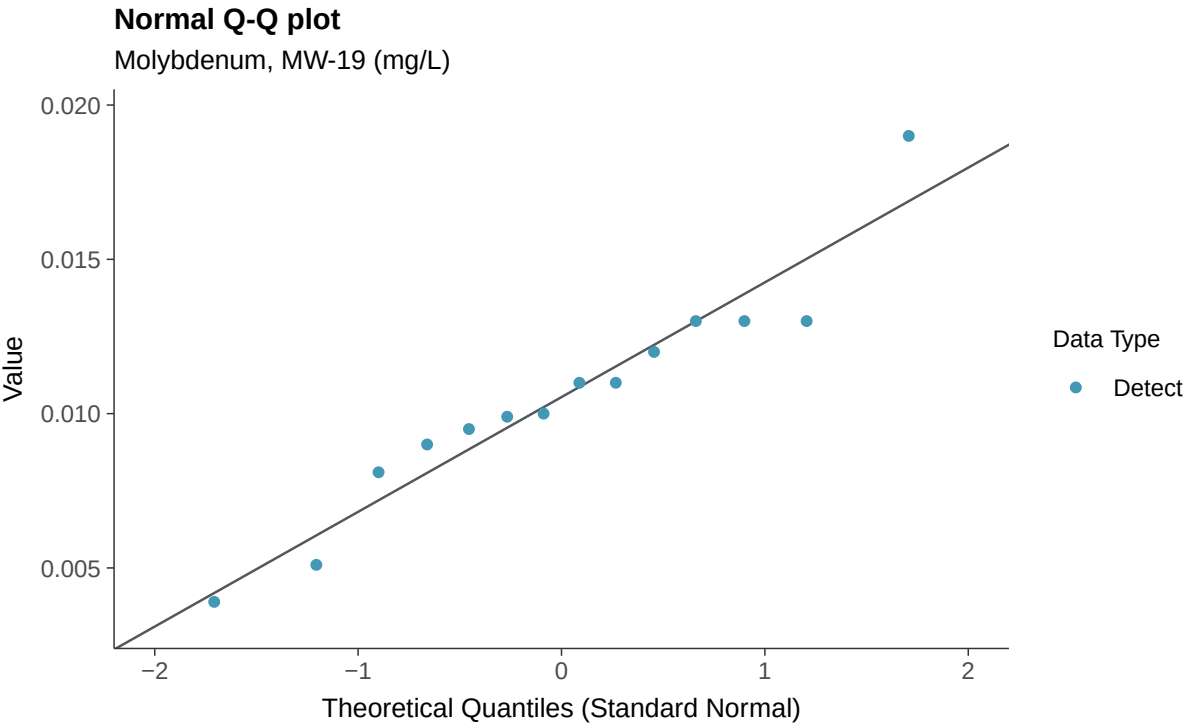


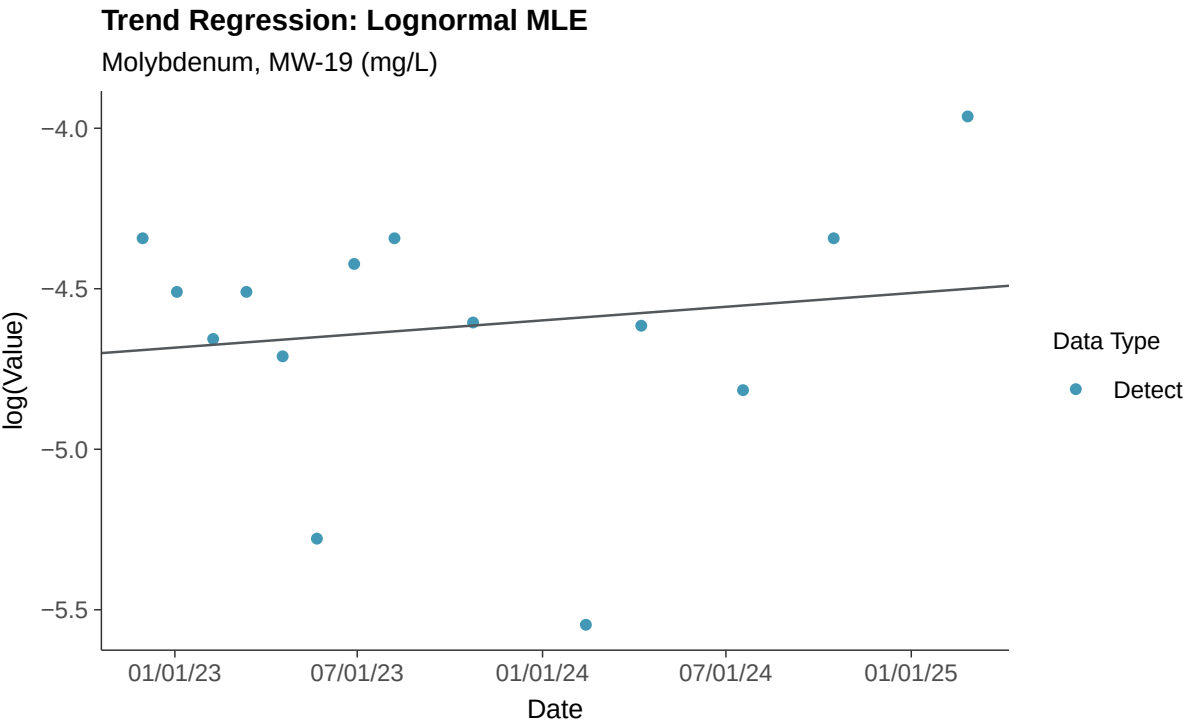
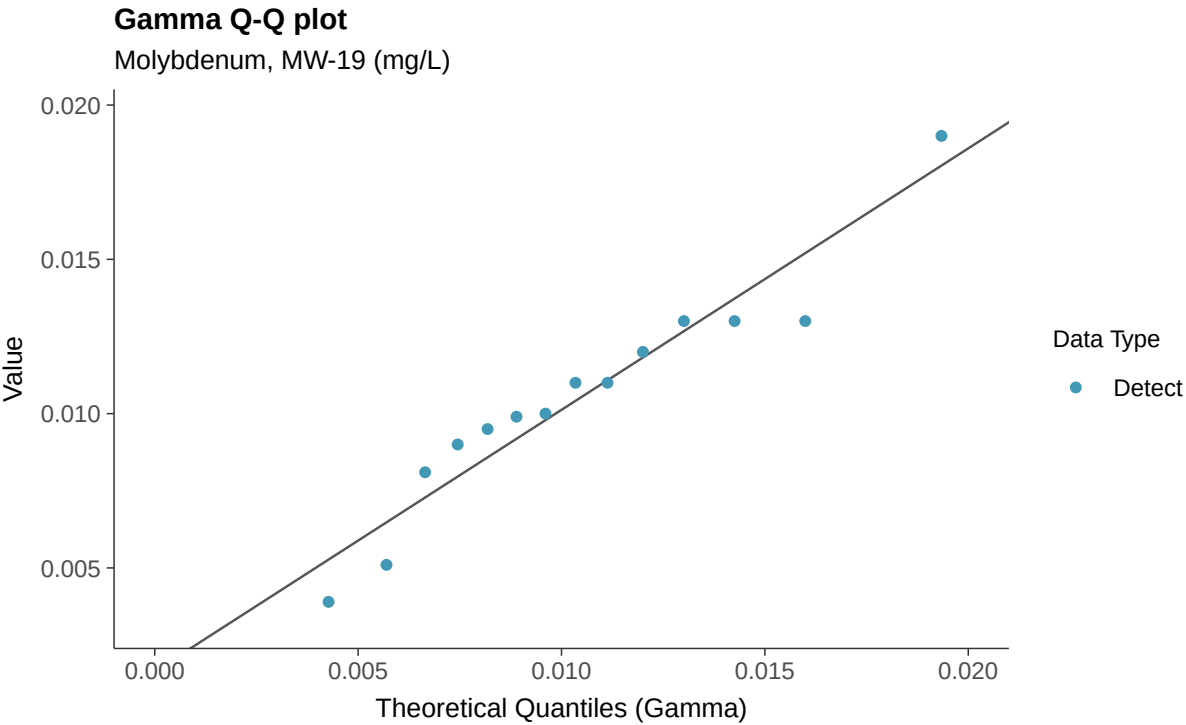
Appendix IV: Molybdenum, MW-19

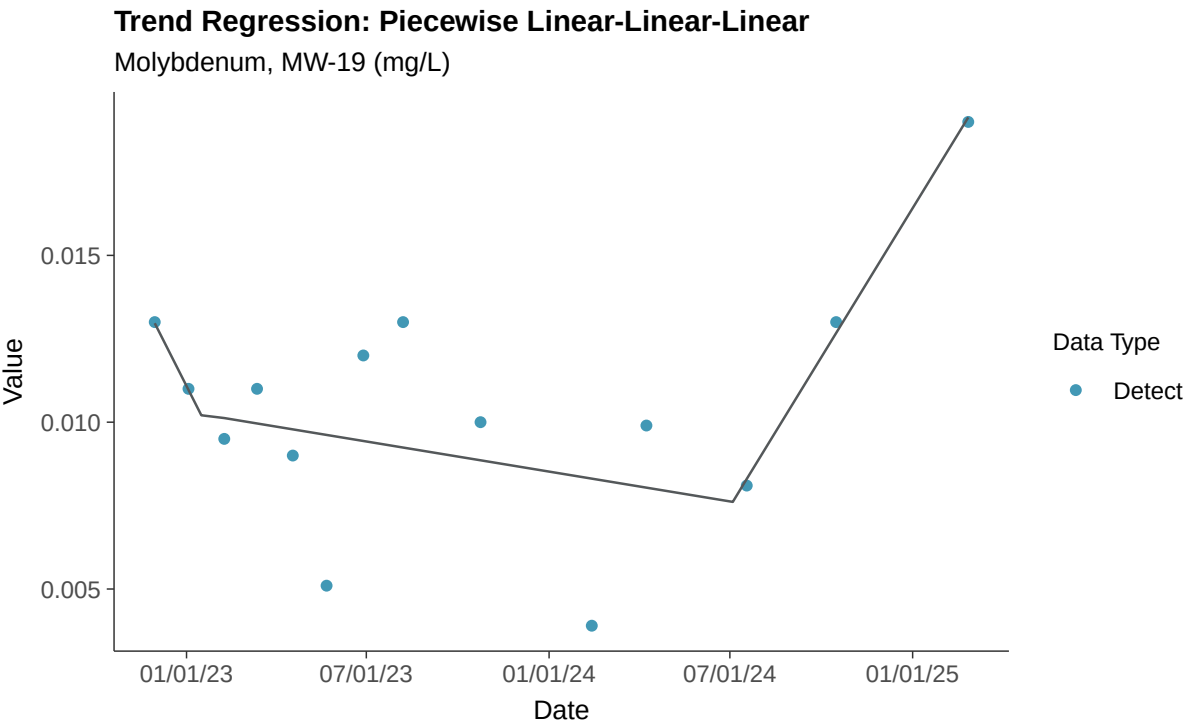
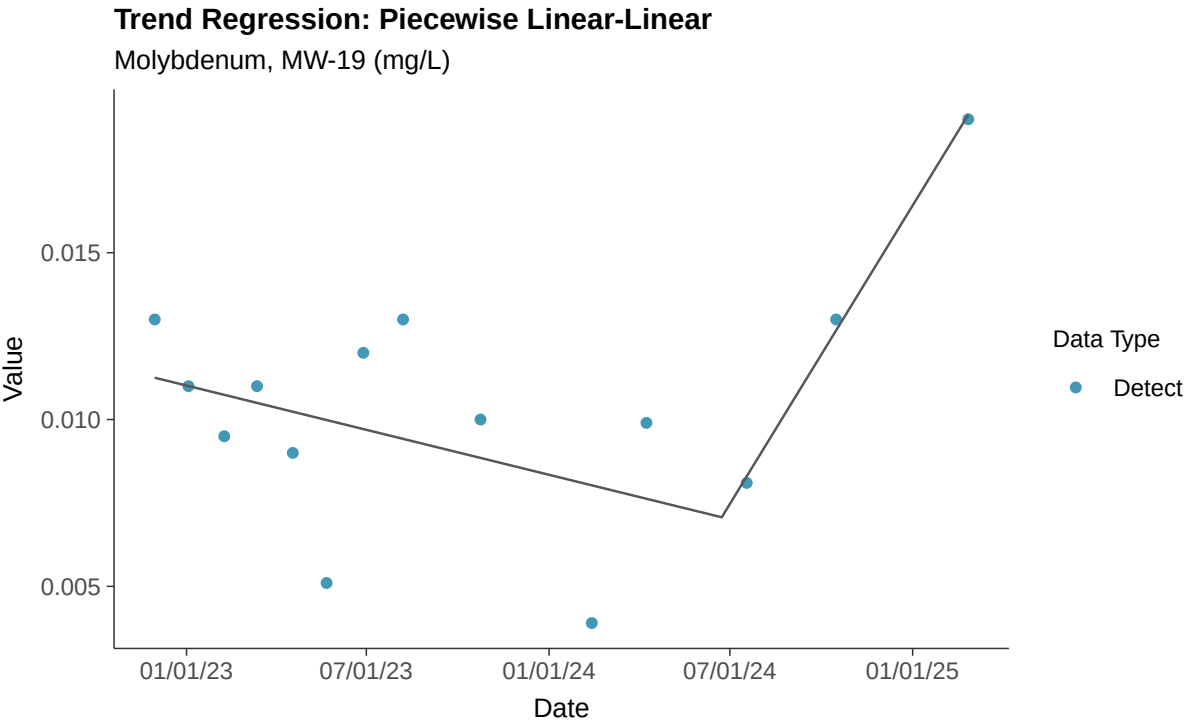
ID: 29_1_4_118







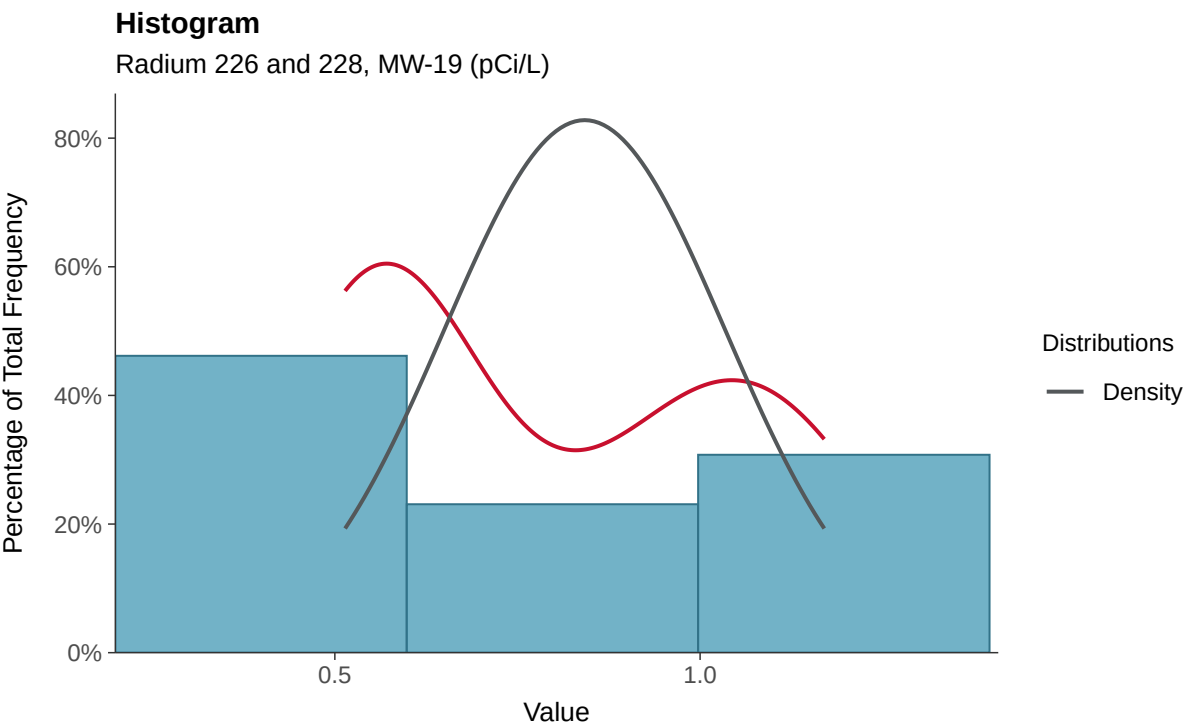
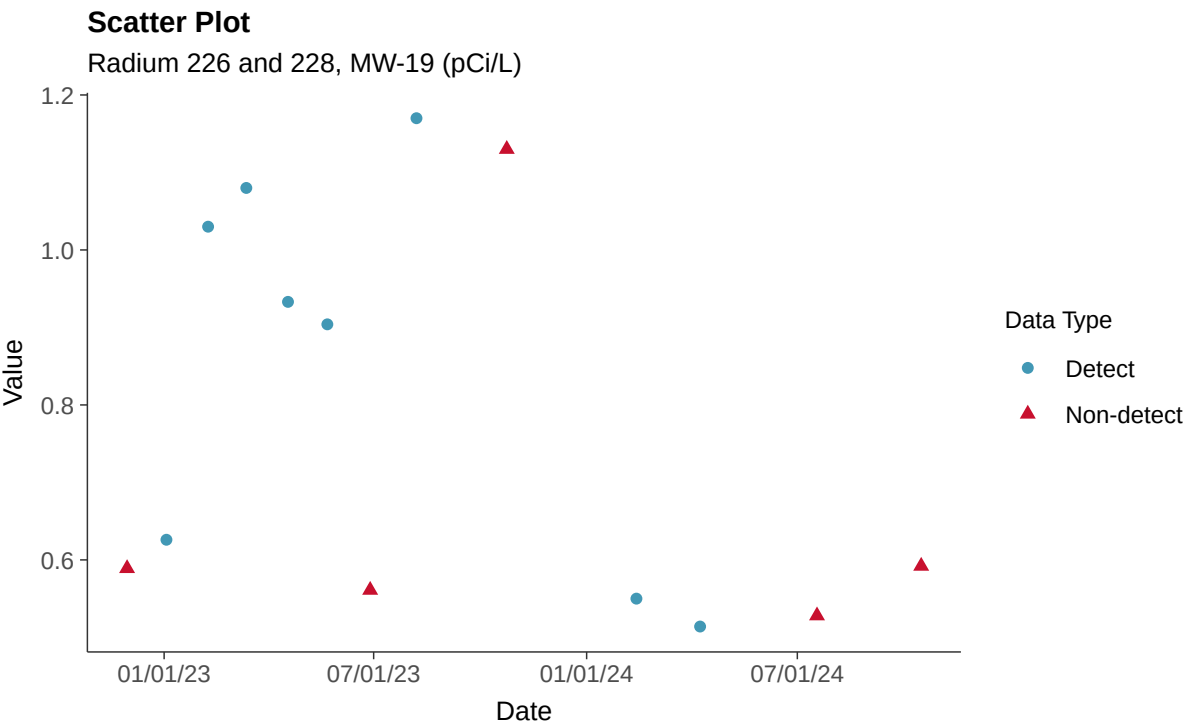






Appendix IV: Radium 226 and 228, MW-19

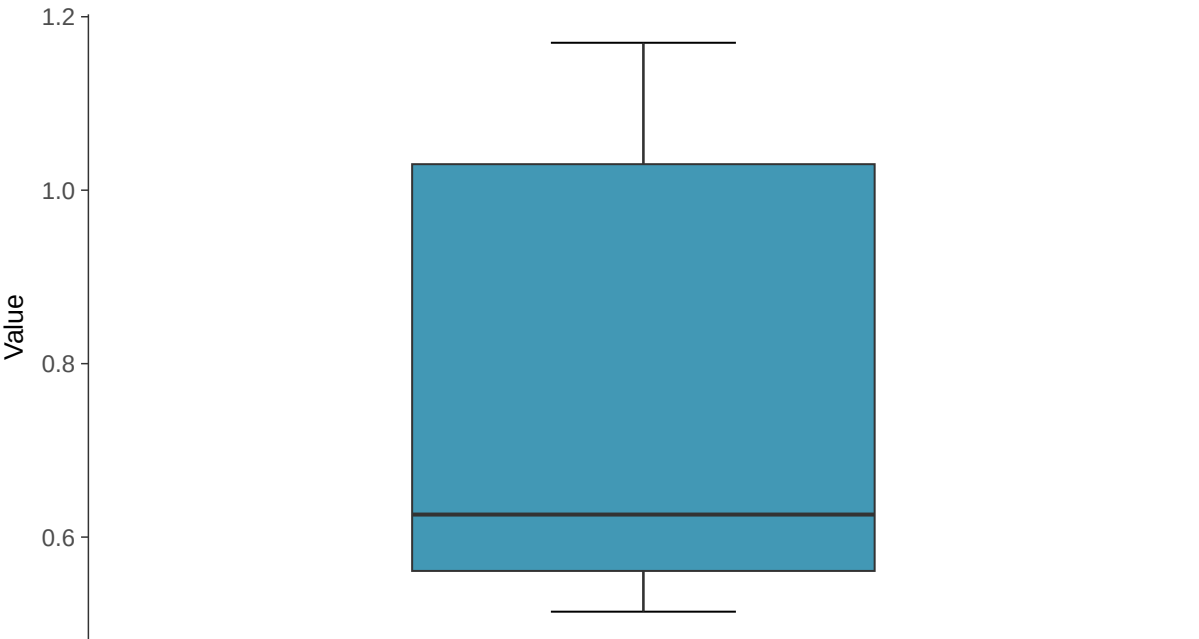
ID: 29_1_4_121





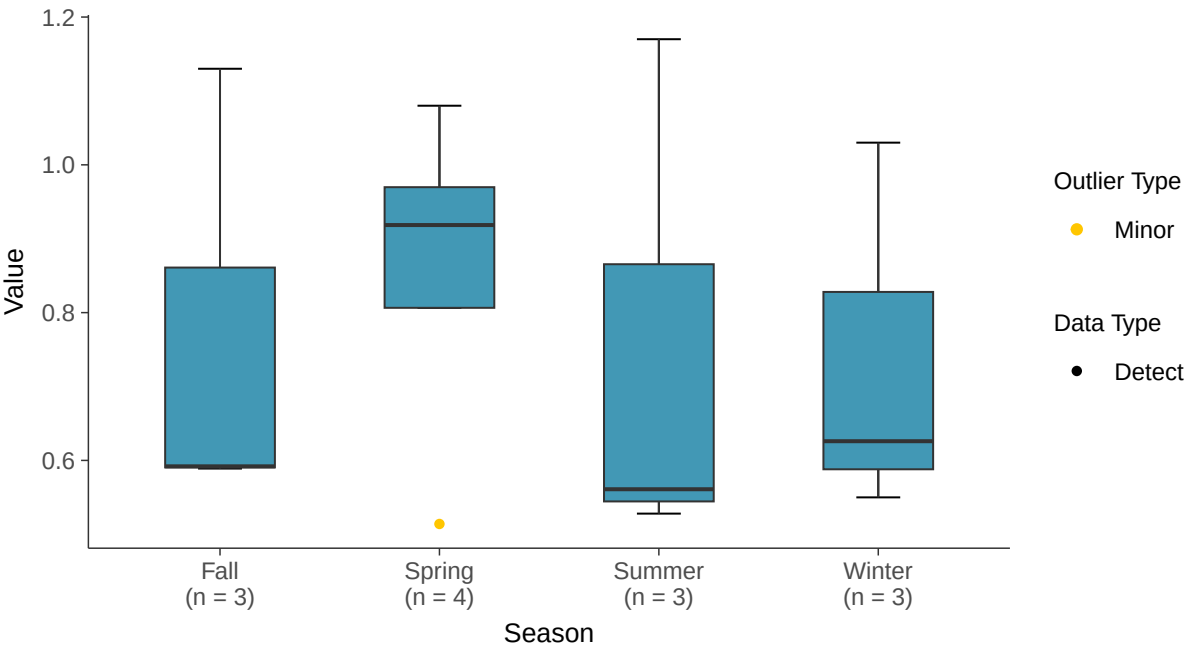
Boxplot

Radium 226 and 228, MW-19 (pCi/L)



Boxplot by Season

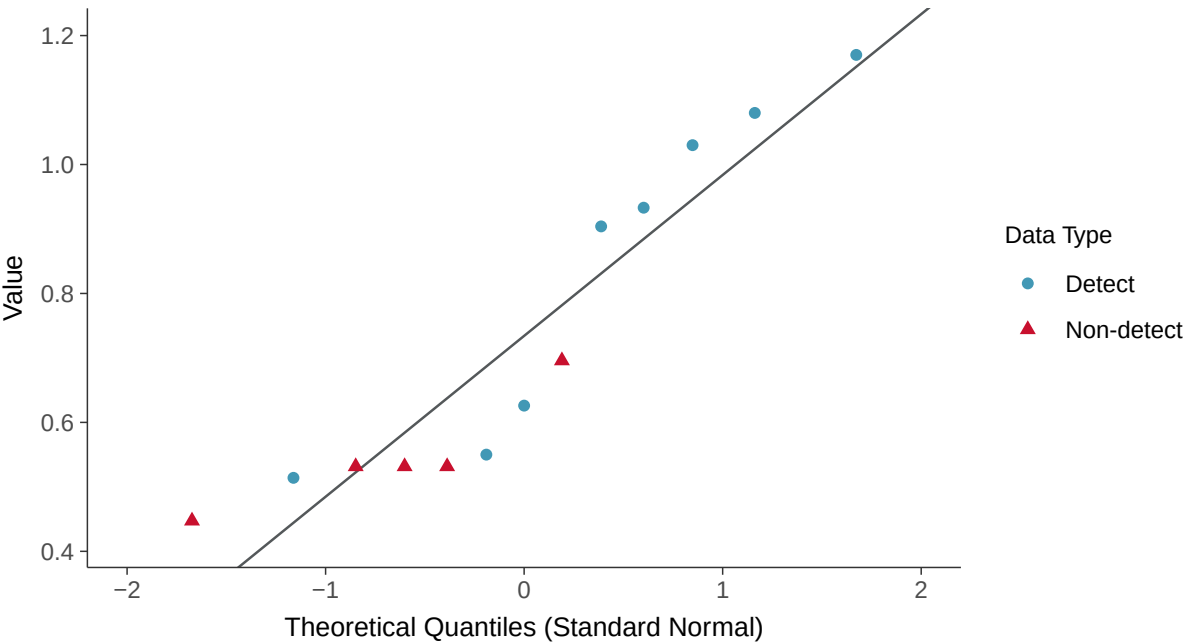
Radium 226 and 228, MW-19 (pCi/L)





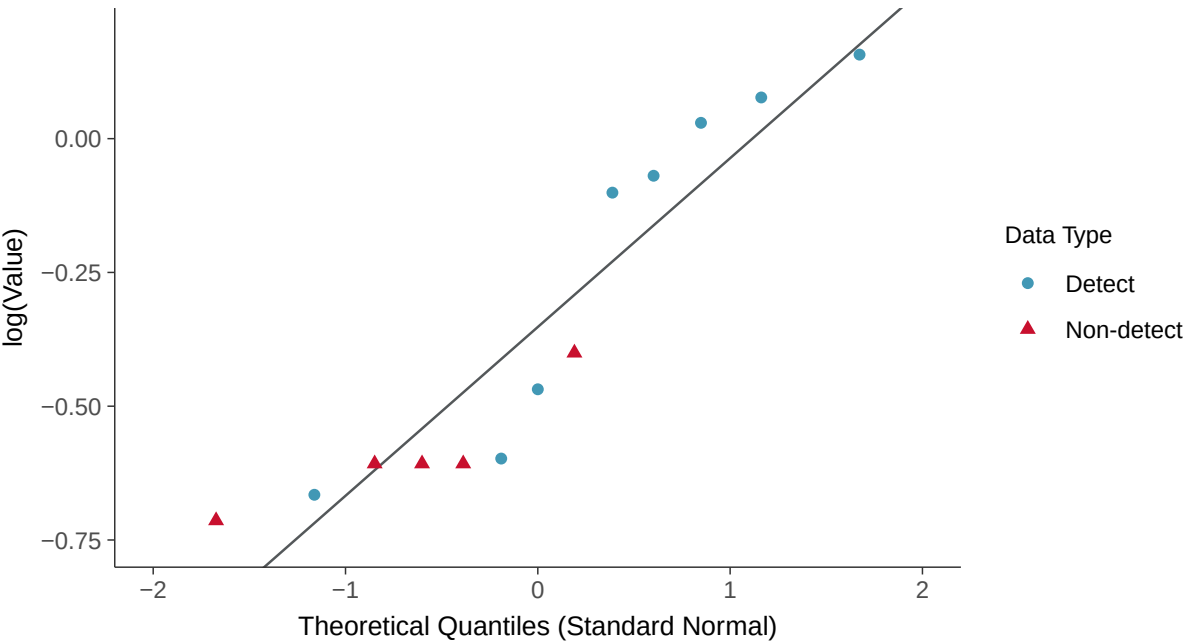
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-19 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

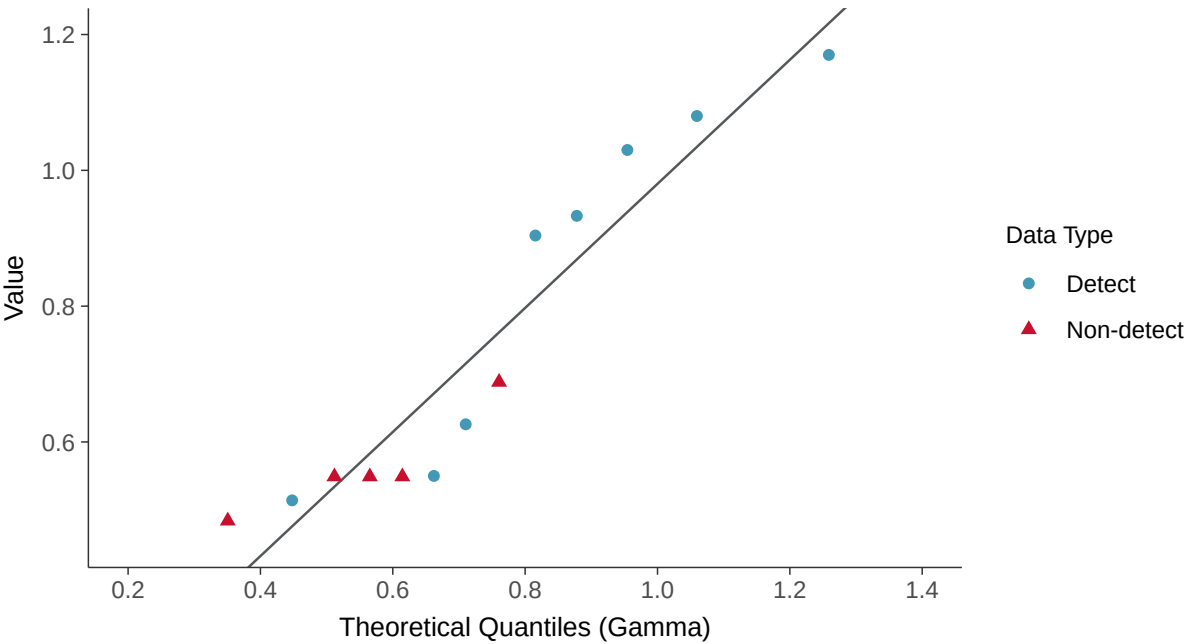
Radium 226 and 228, MW-19 (pCi/L)





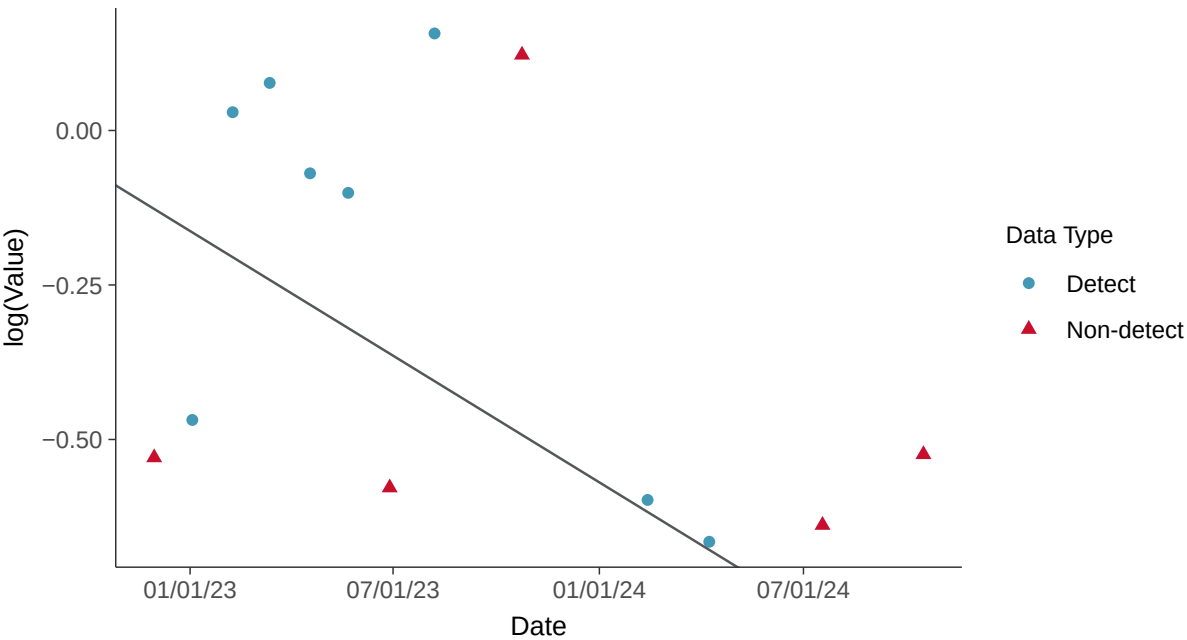
Gamma Q-Q plot using ROS Imputed Estimates

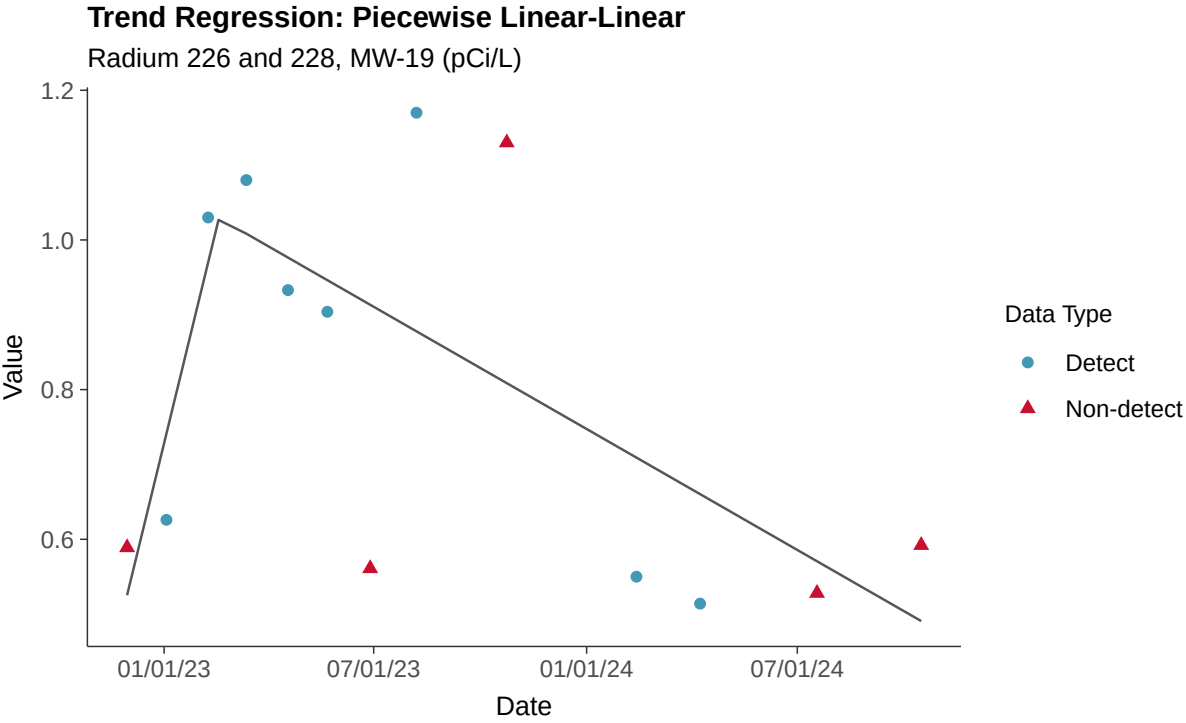
Radium 226 and 228, MW-19 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-19 (pCi/L)

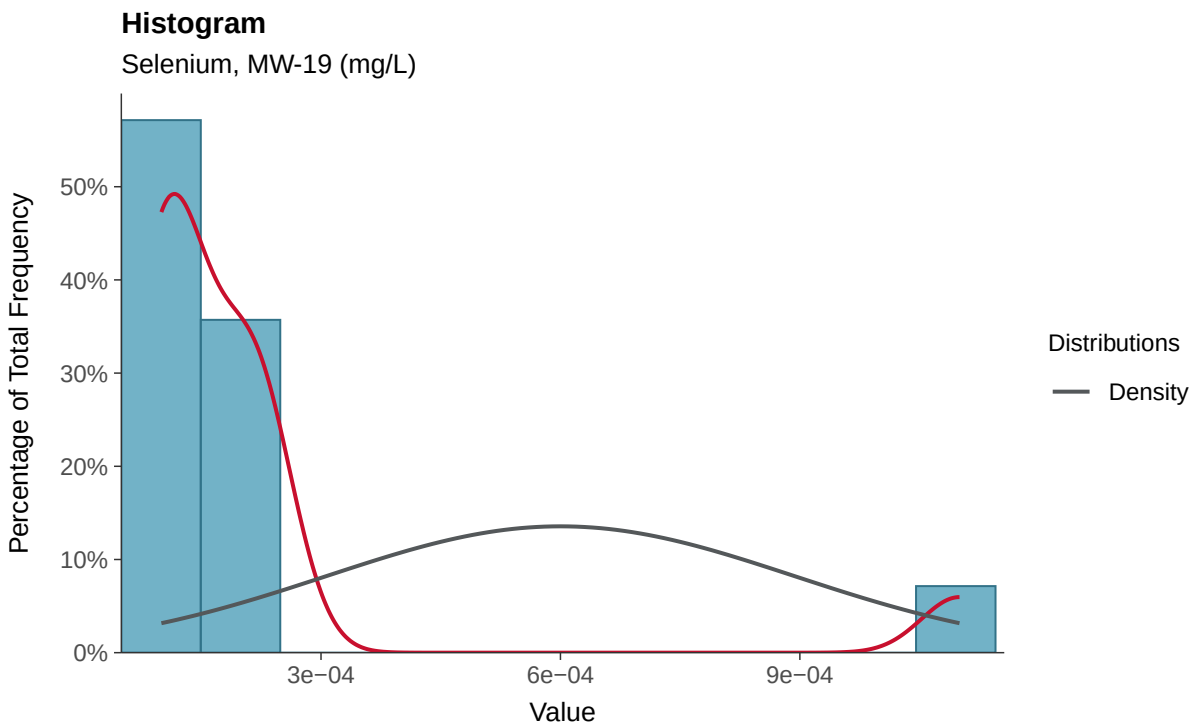
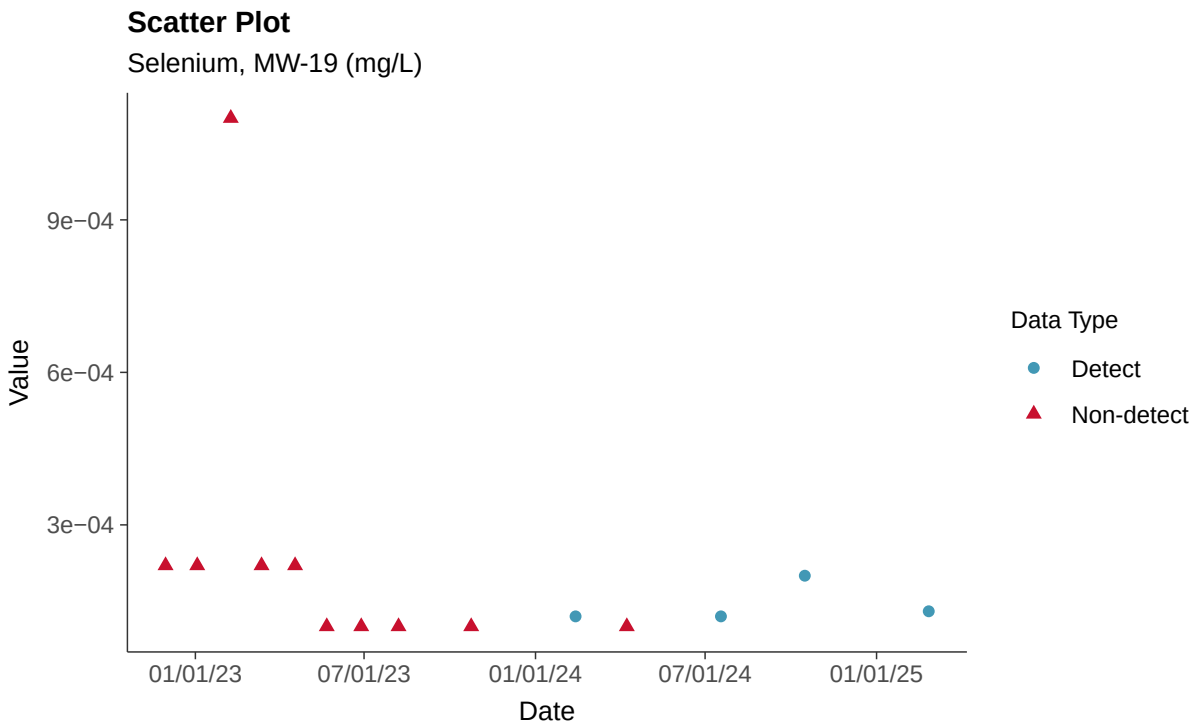


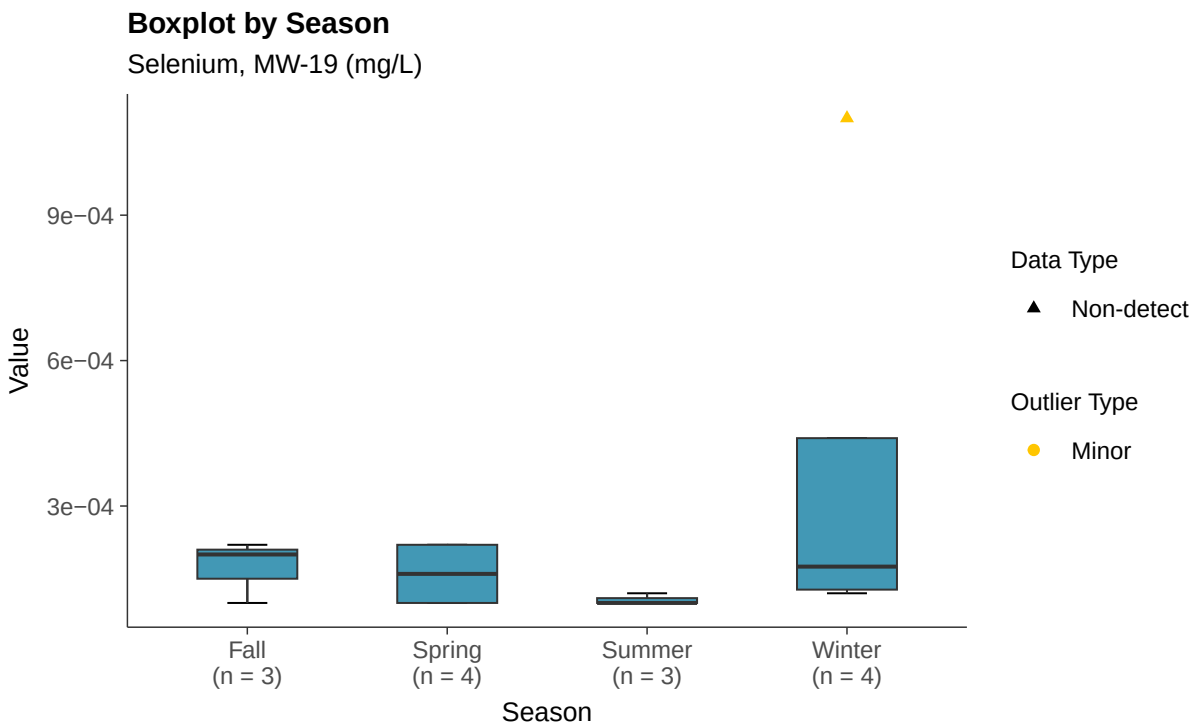
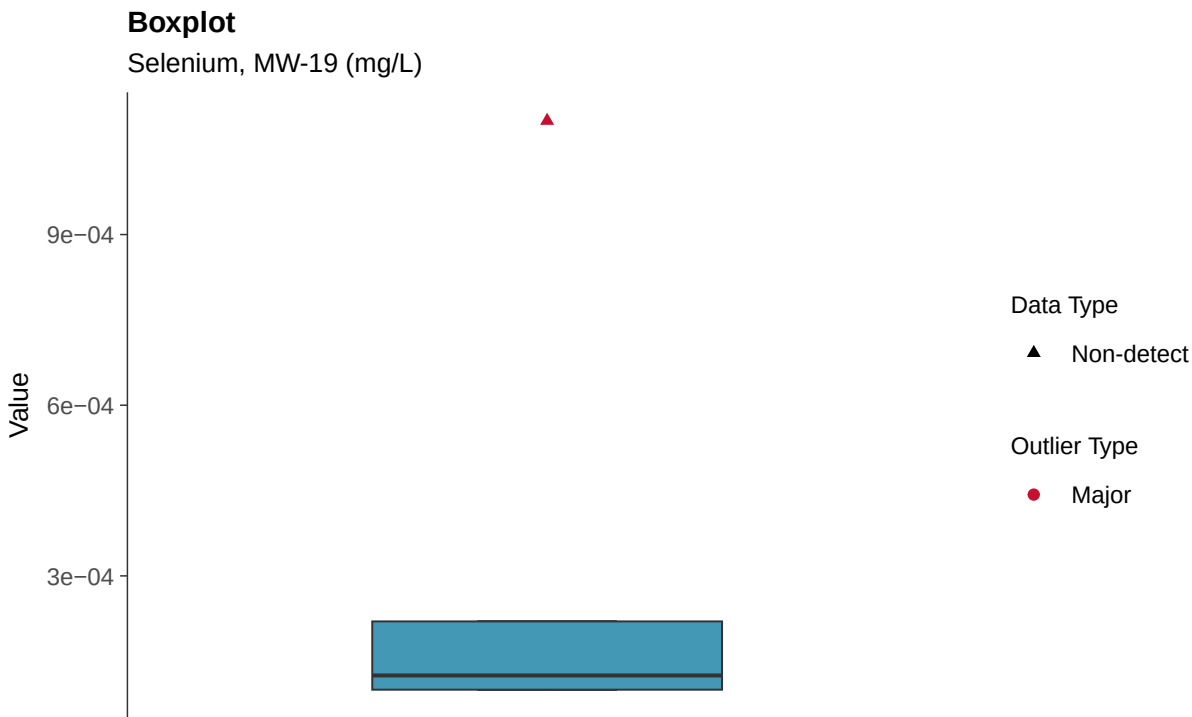




Appendix IV: Selenium, MW-19

ID: 29_1_4_122

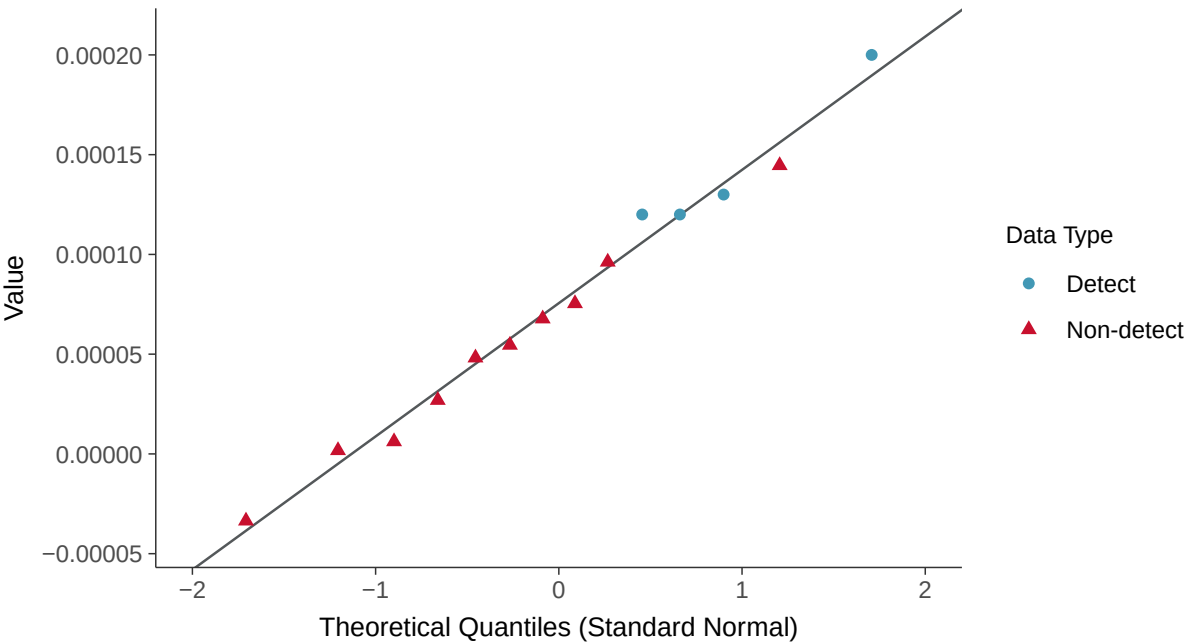






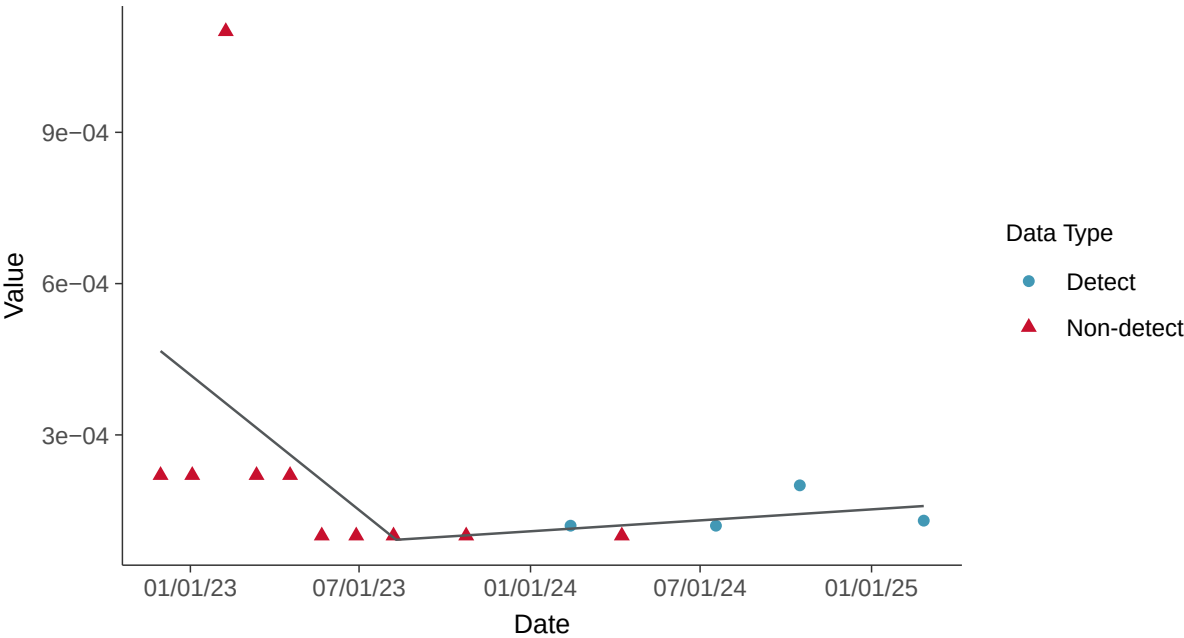
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

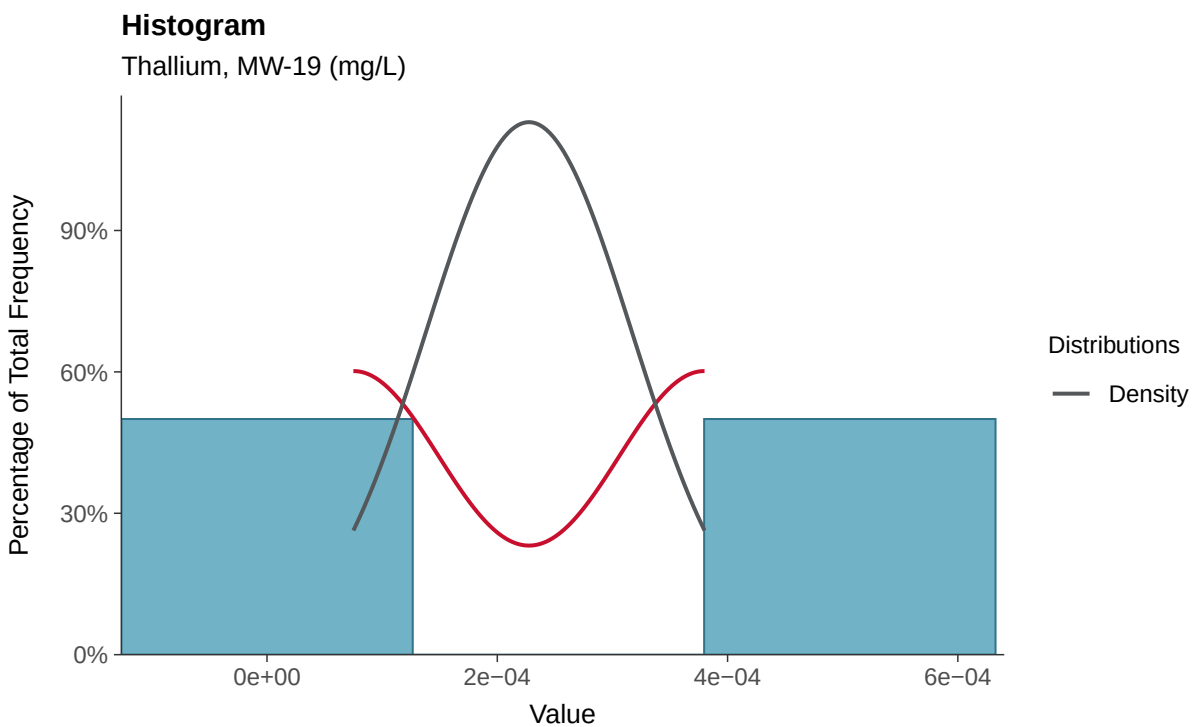
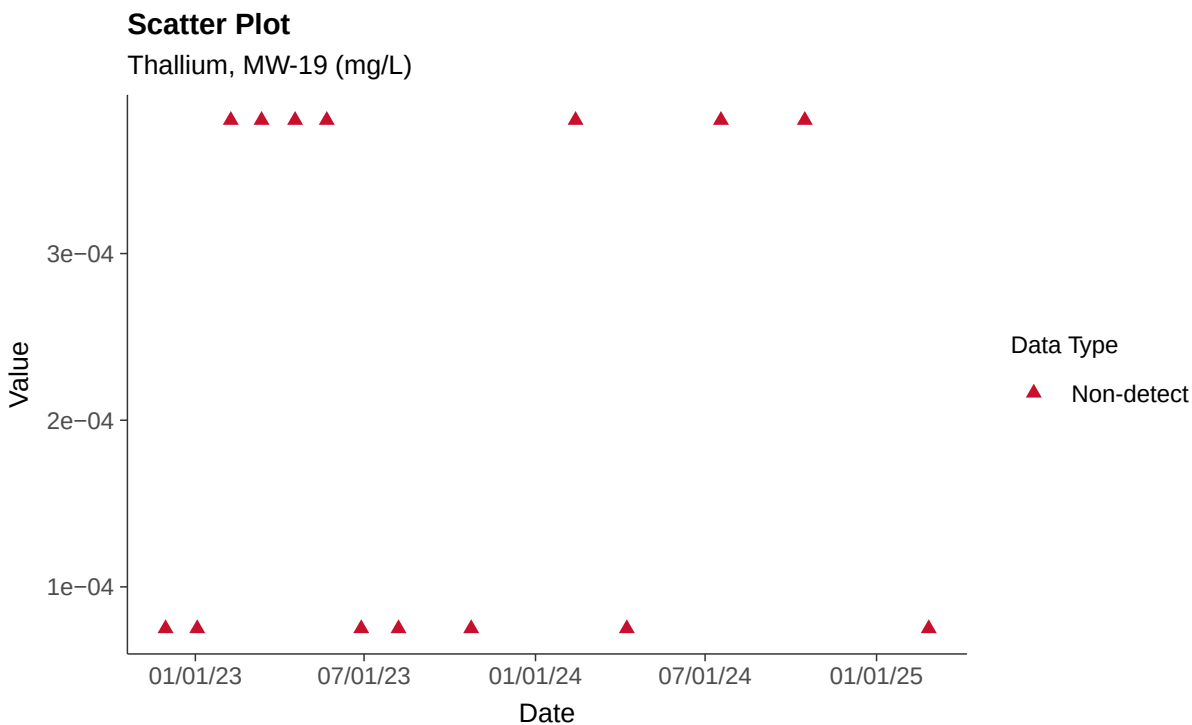
Selenium, MW-19 (mg/L)

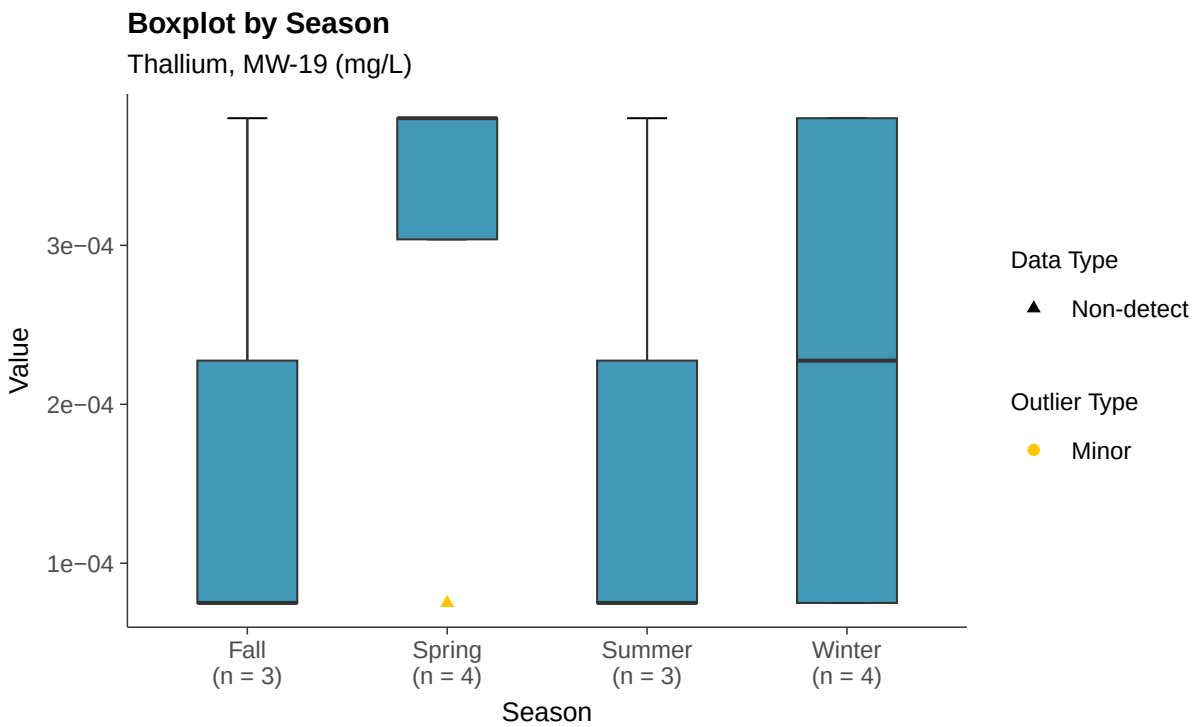
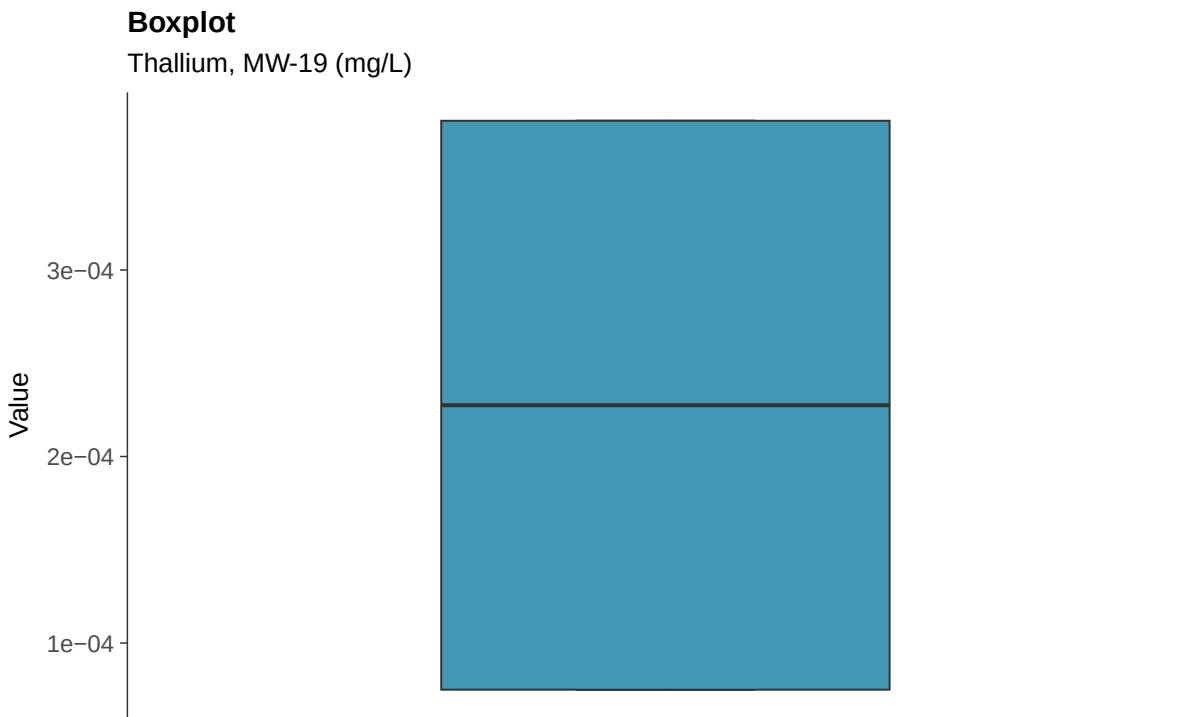




Appendix IV: Thallium, MW-19

ID: 29_1_4_125

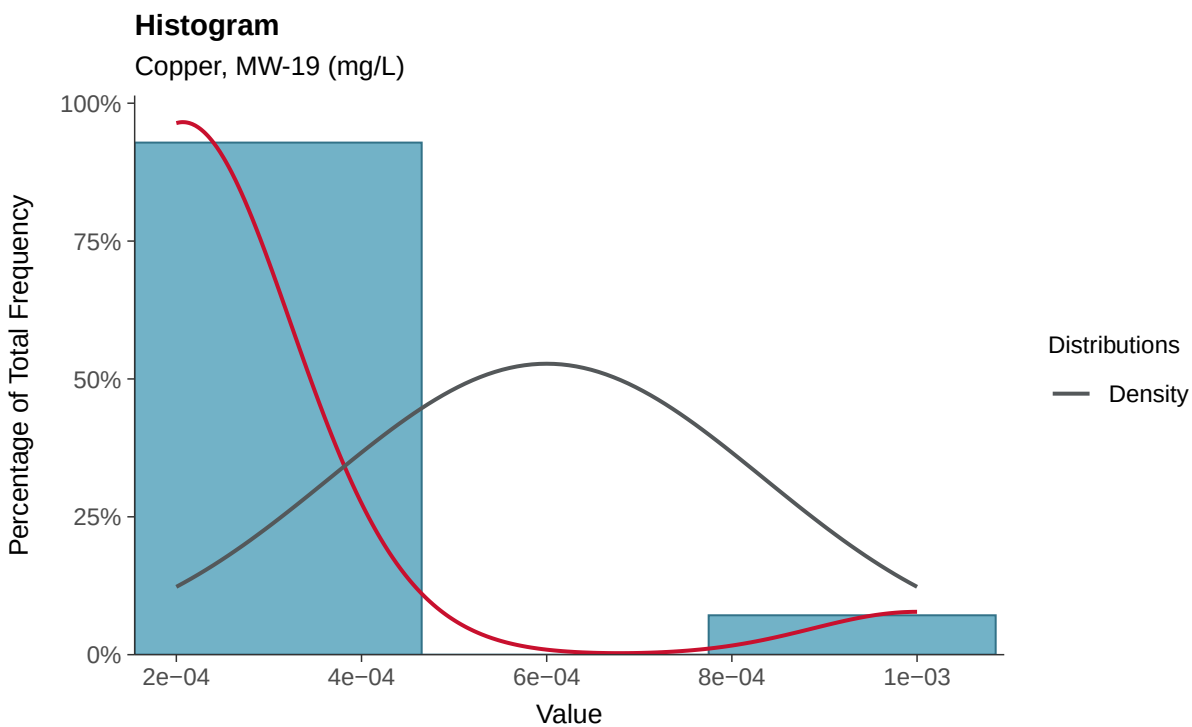
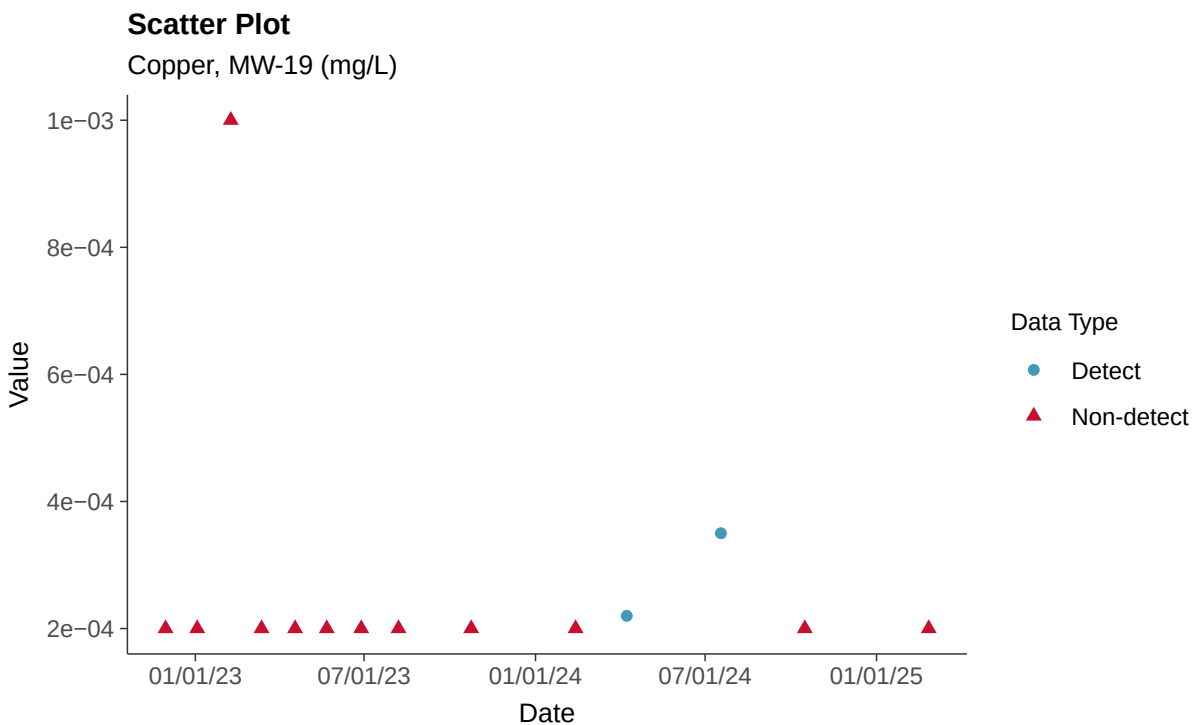


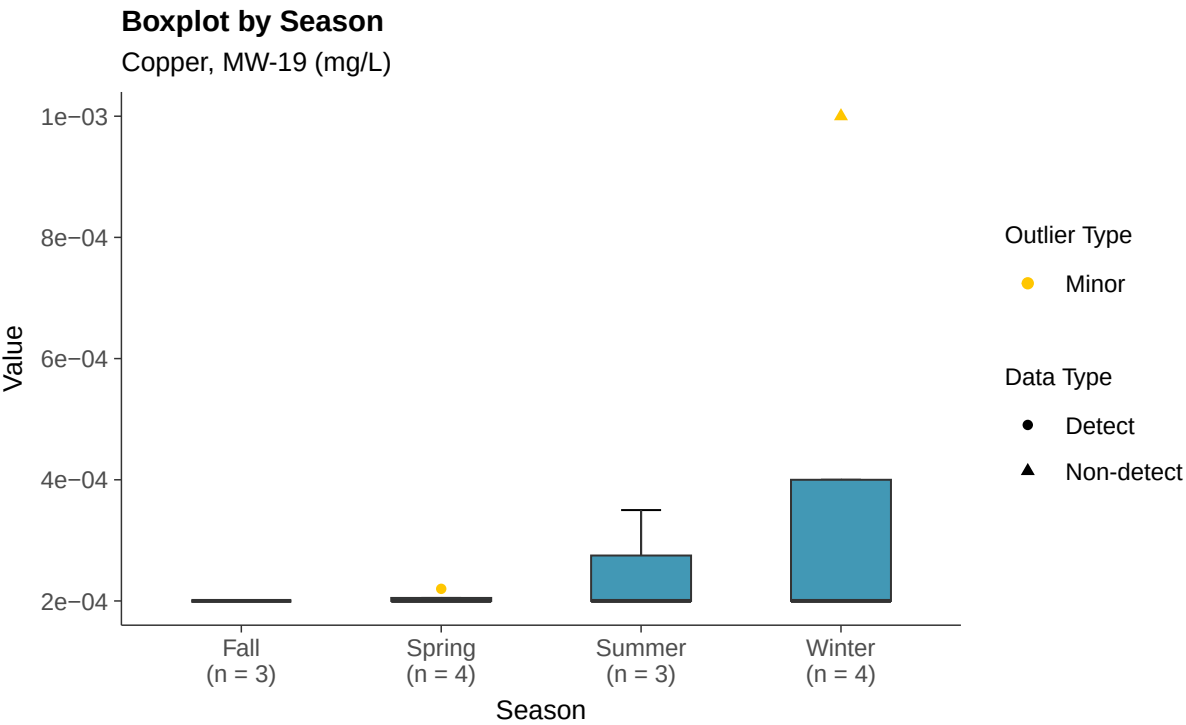
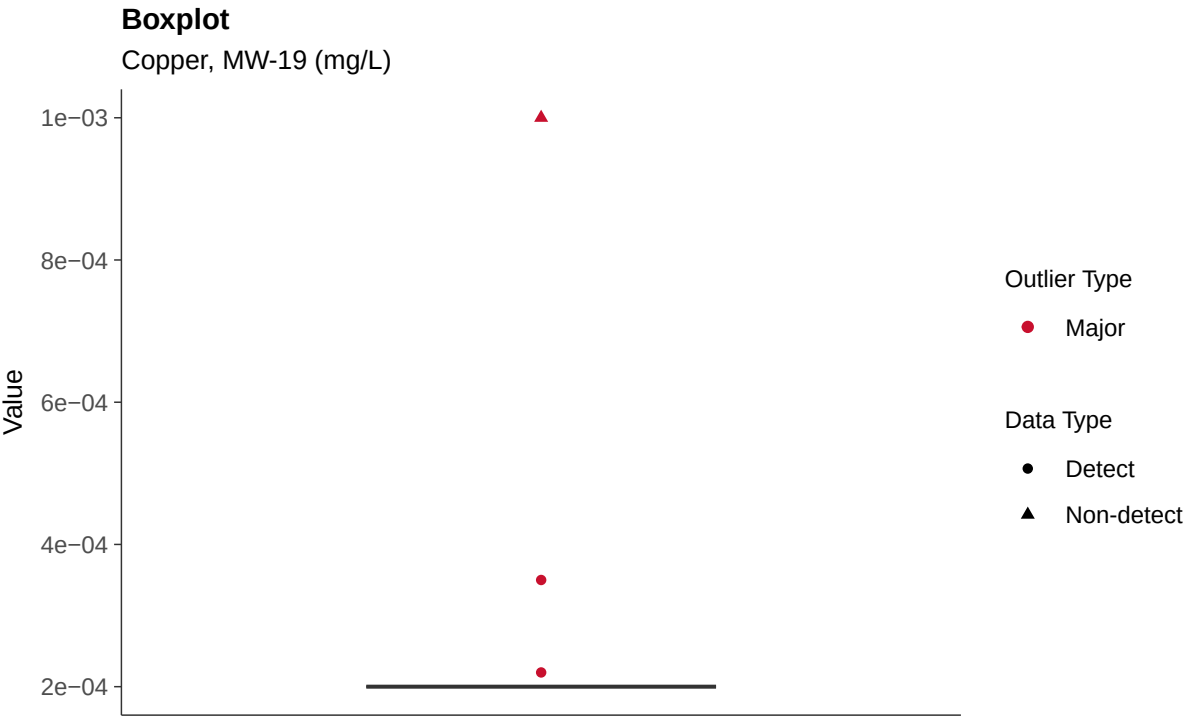


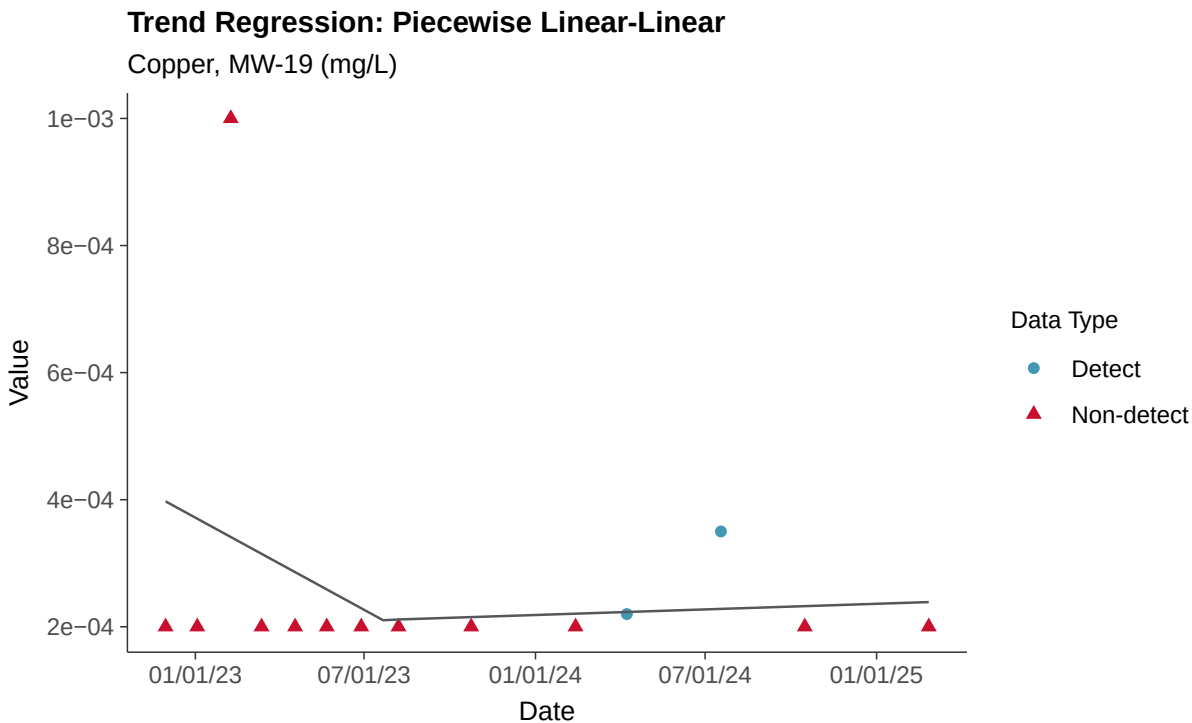
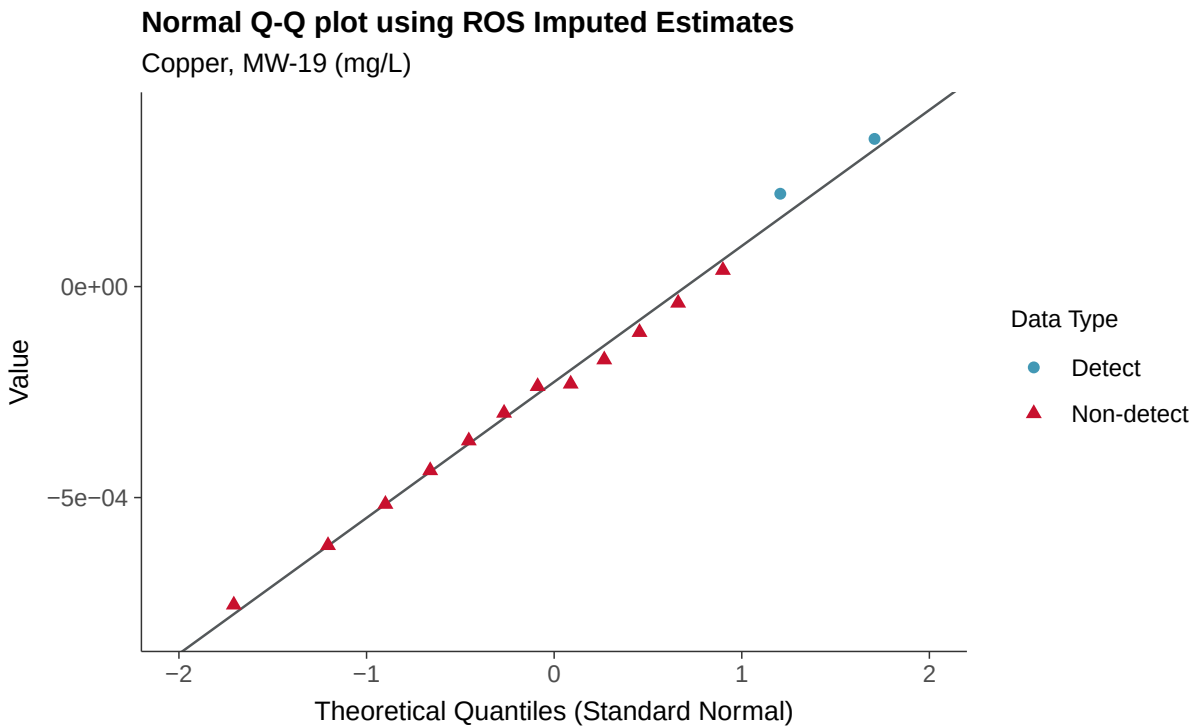


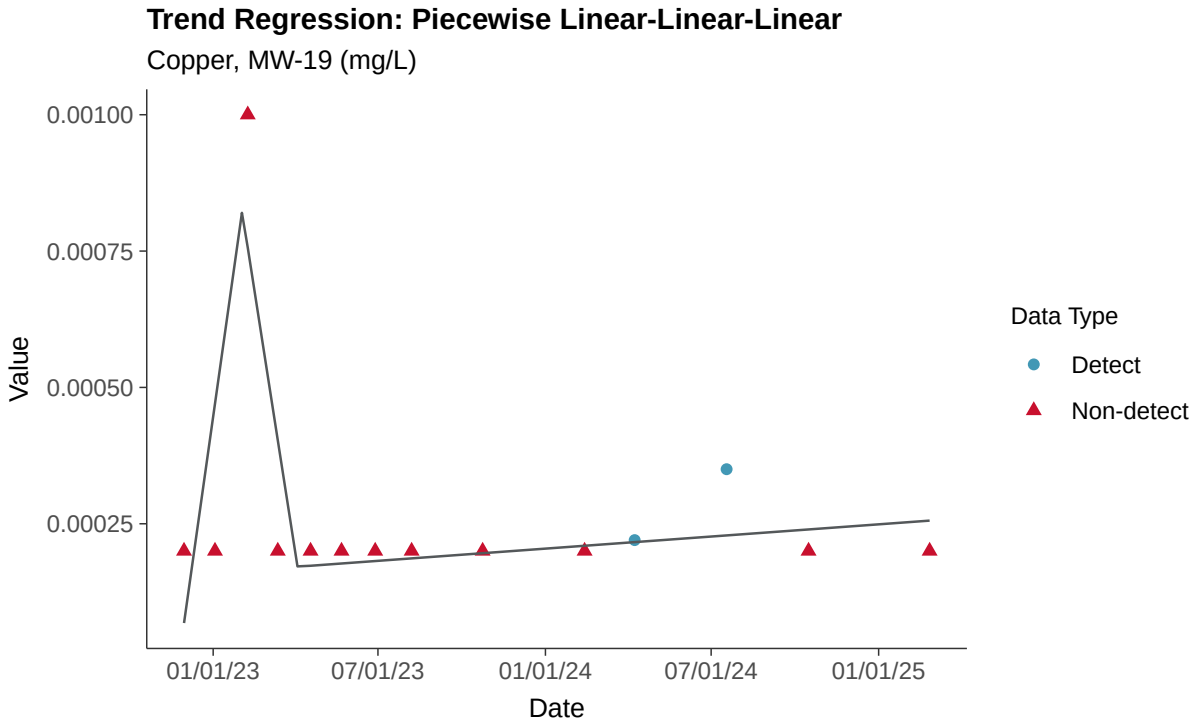
Part 115: Copper, MW-19

ID: 29_1_5_111





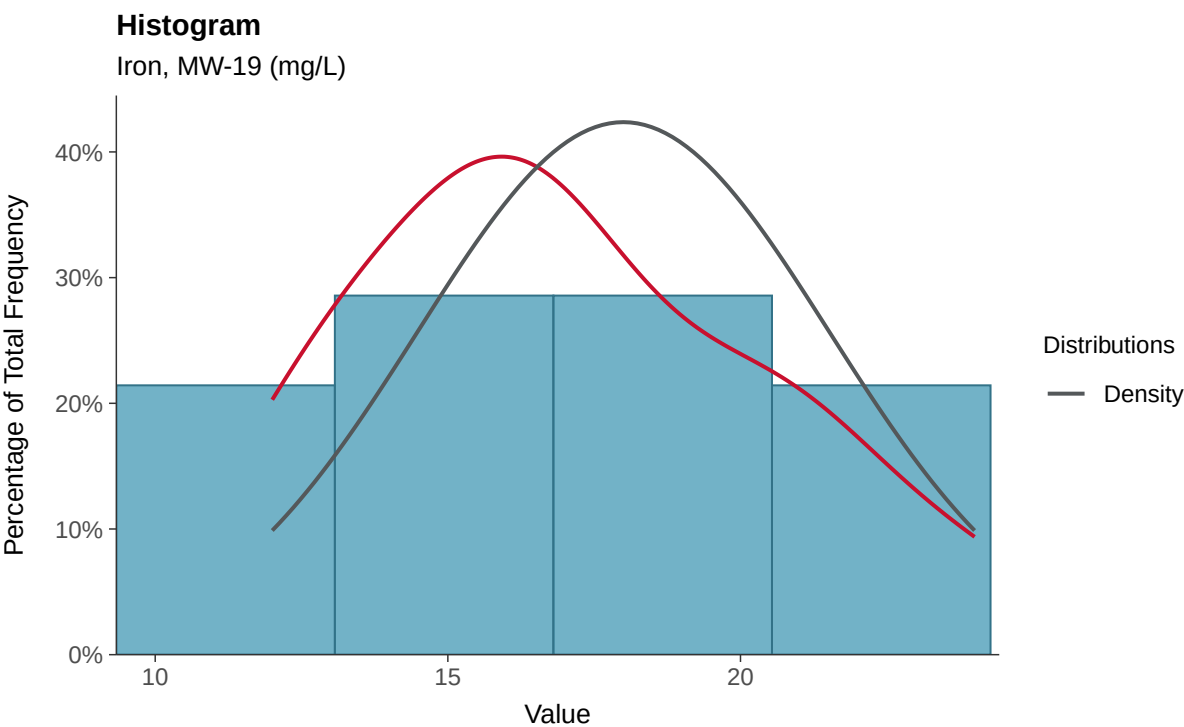
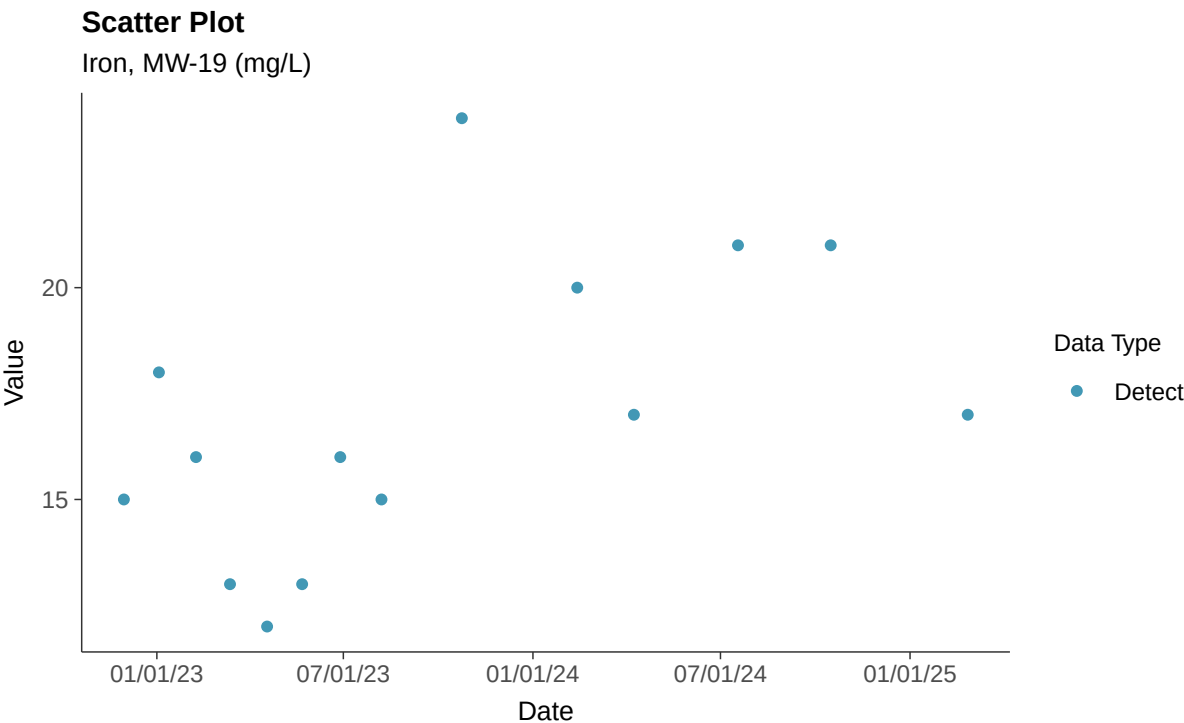


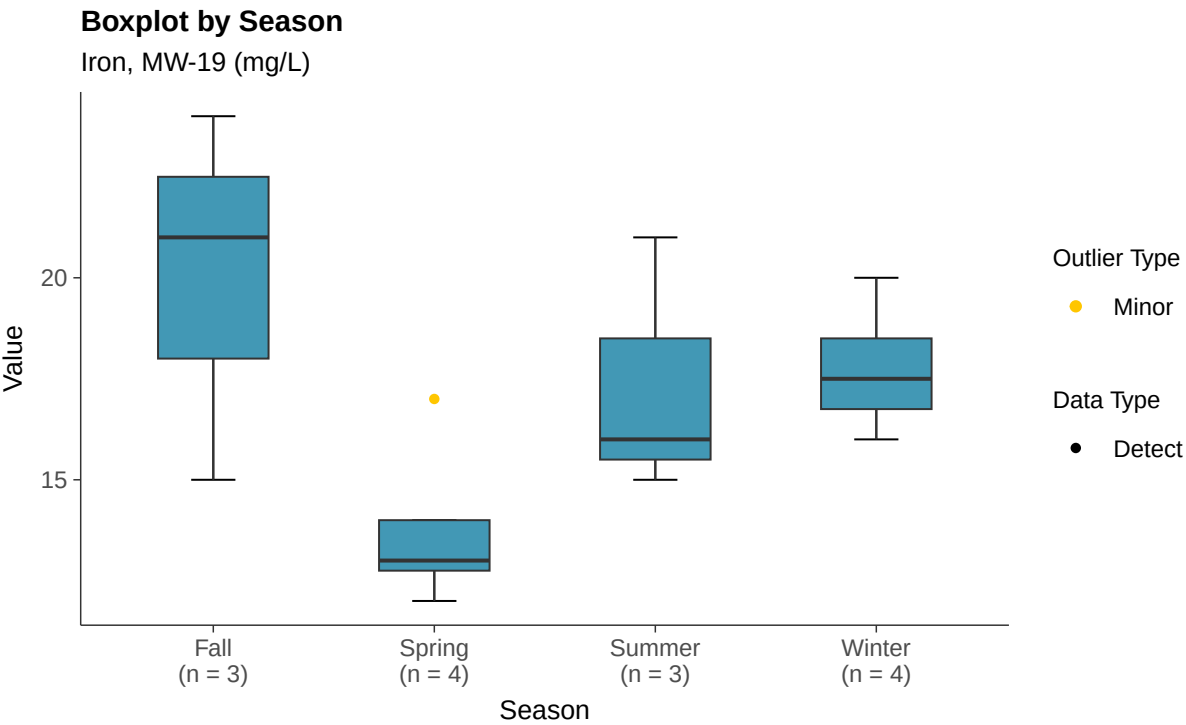
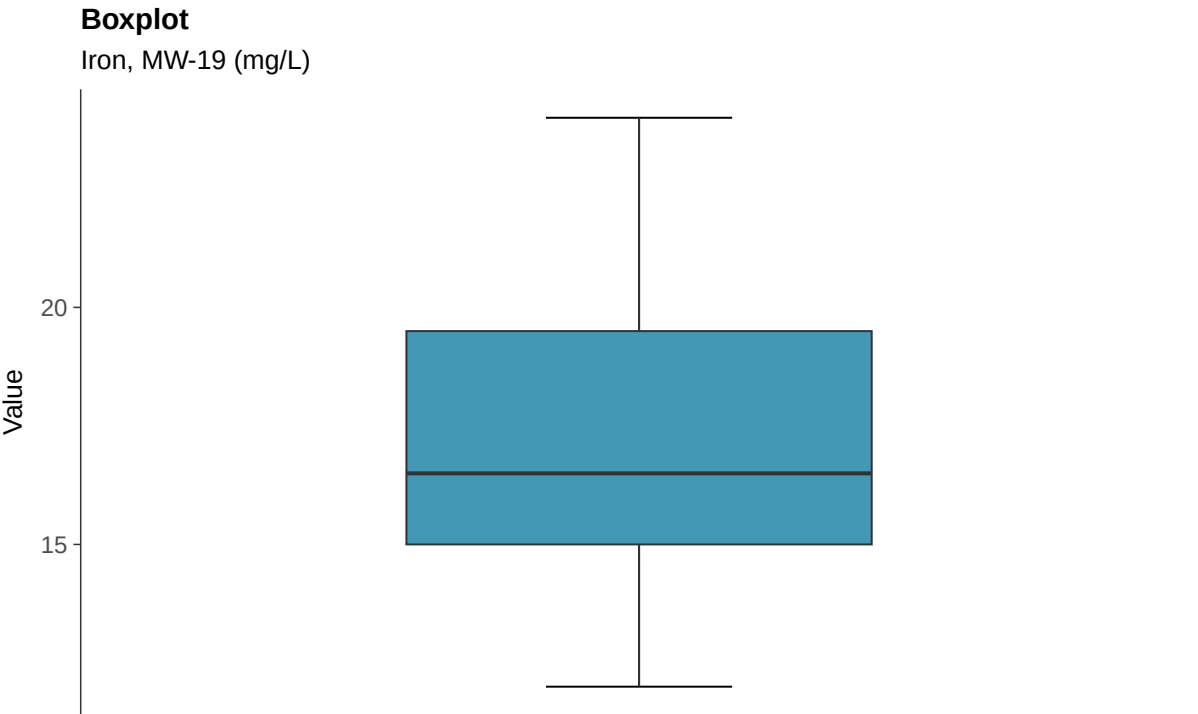


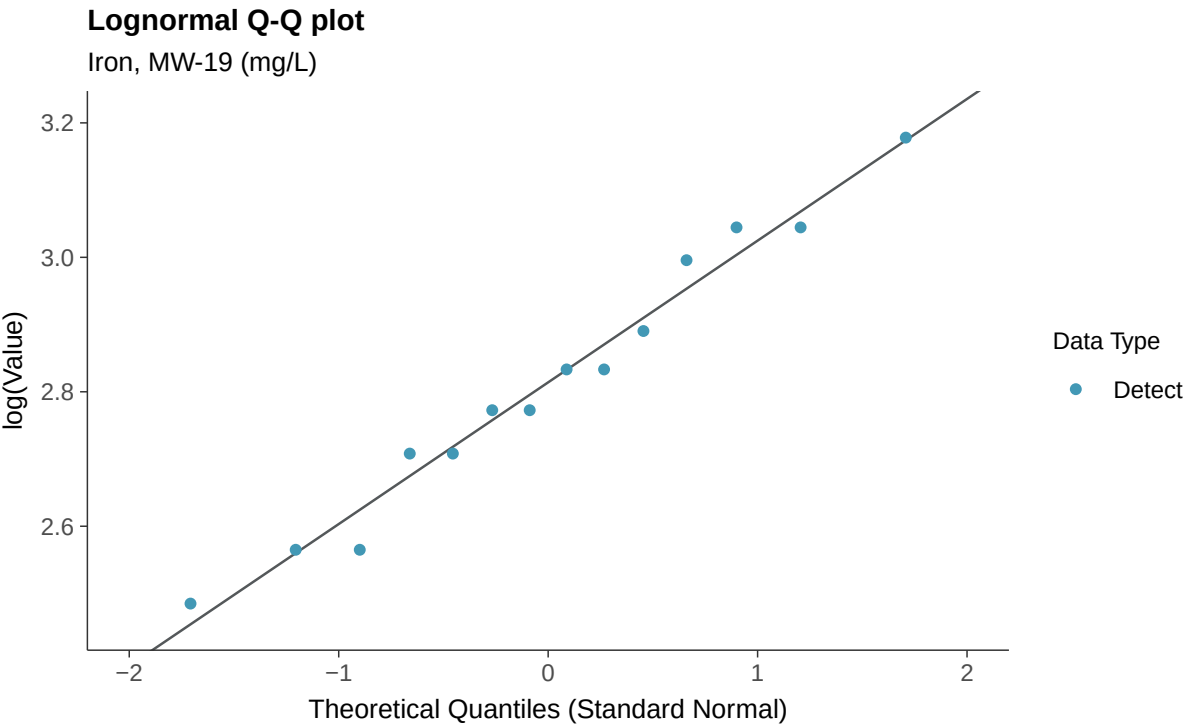
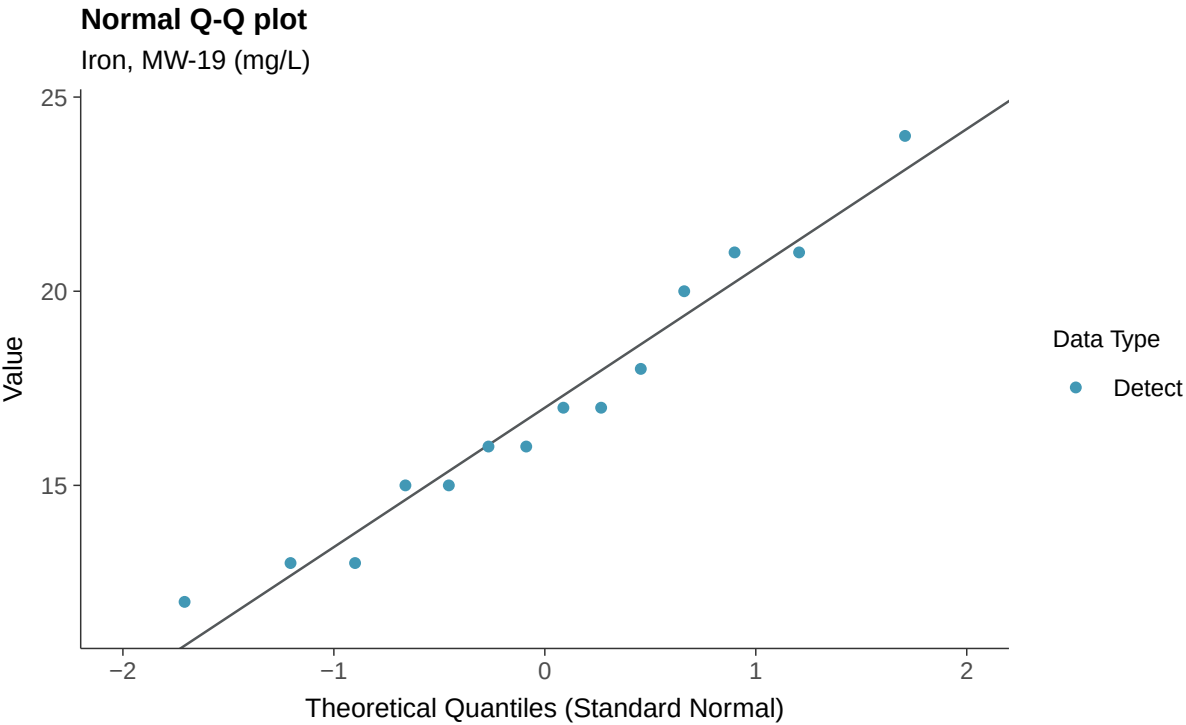


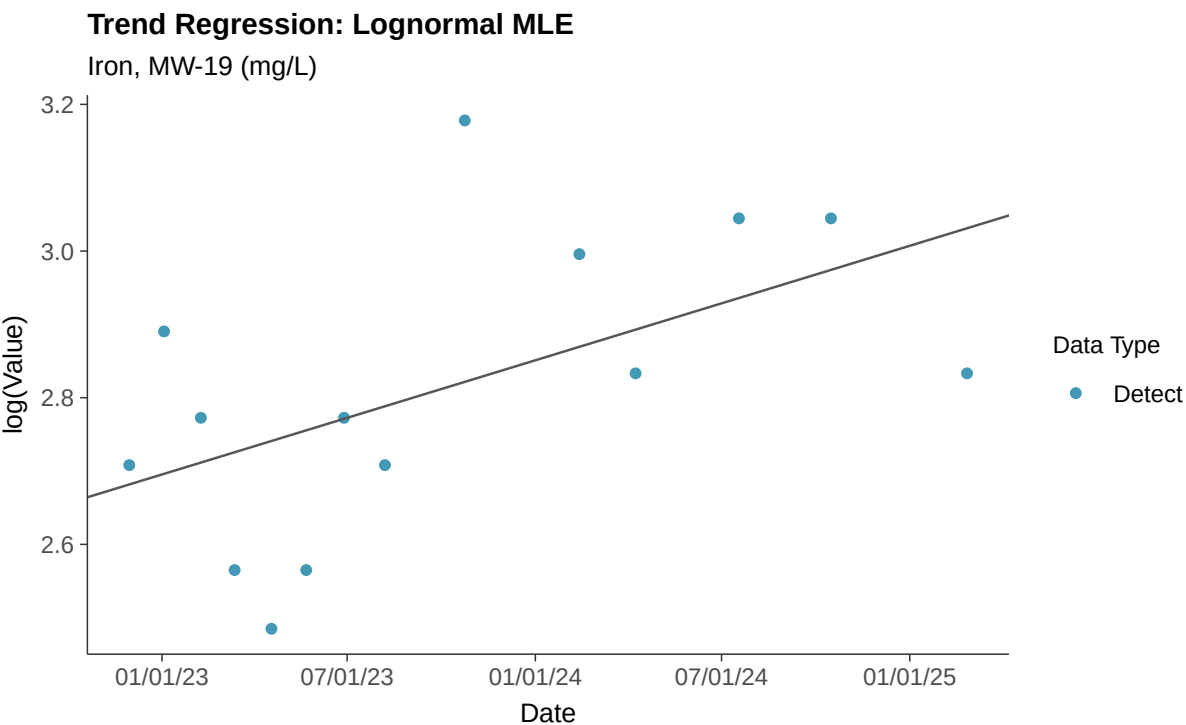
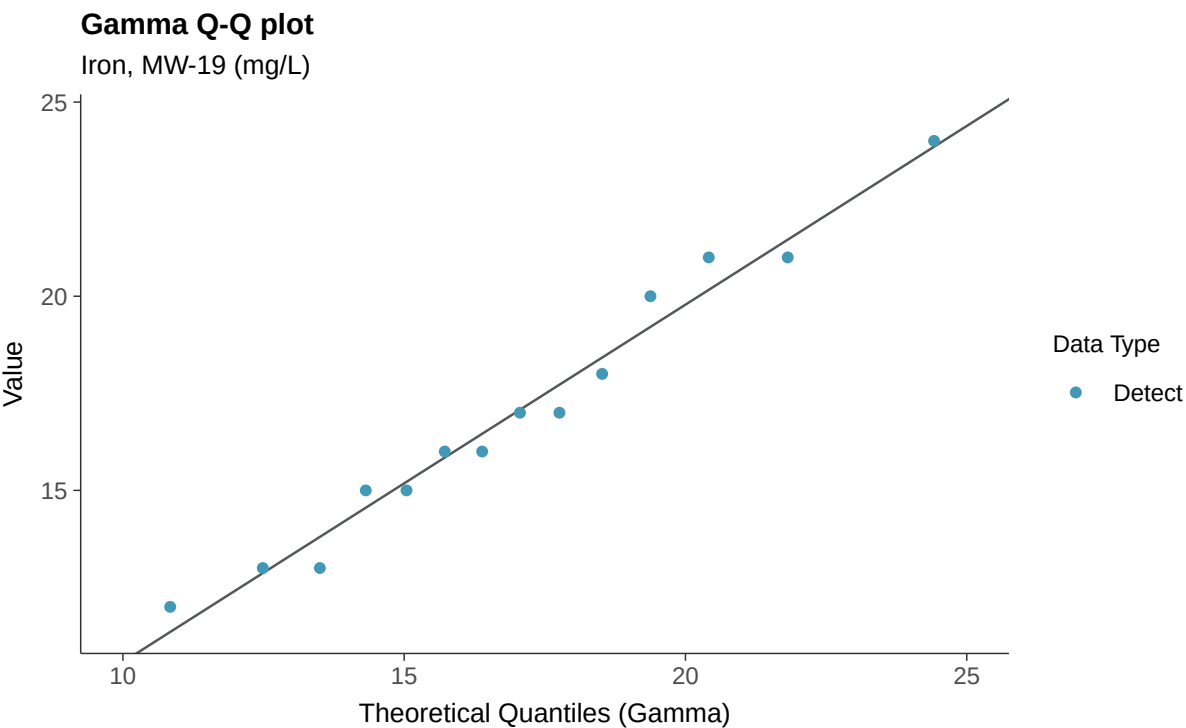
Part 115: Iron, MW-19

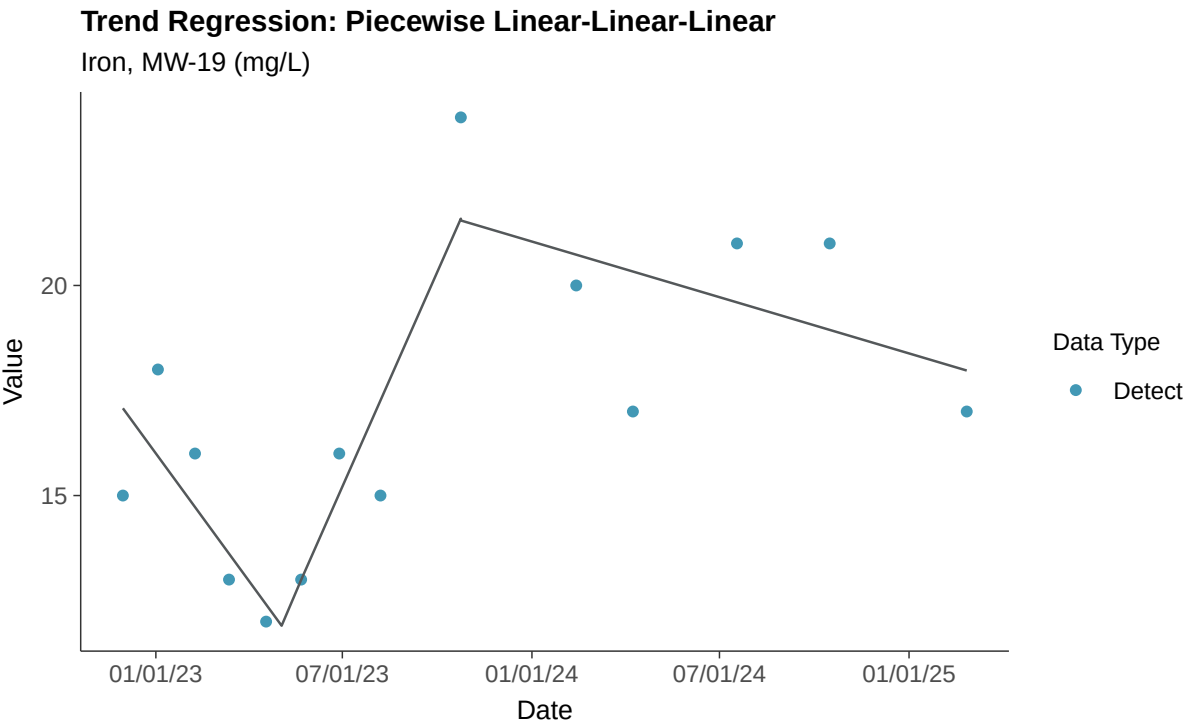
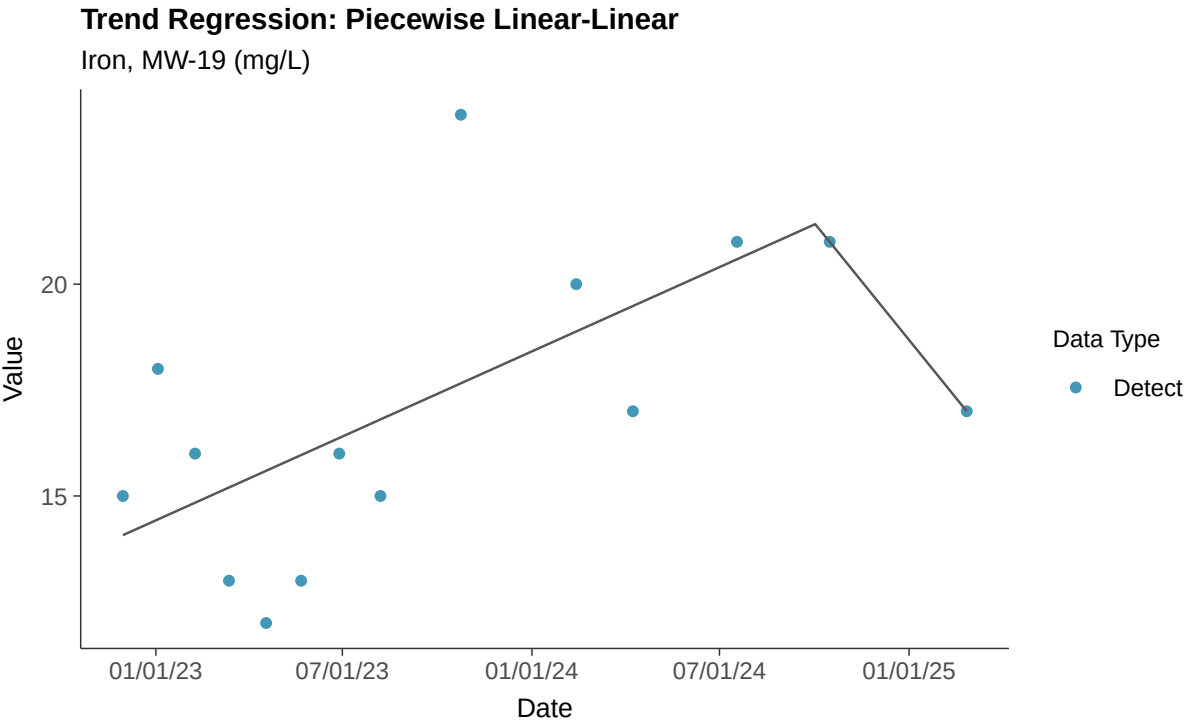
ID: 29_1_5_114







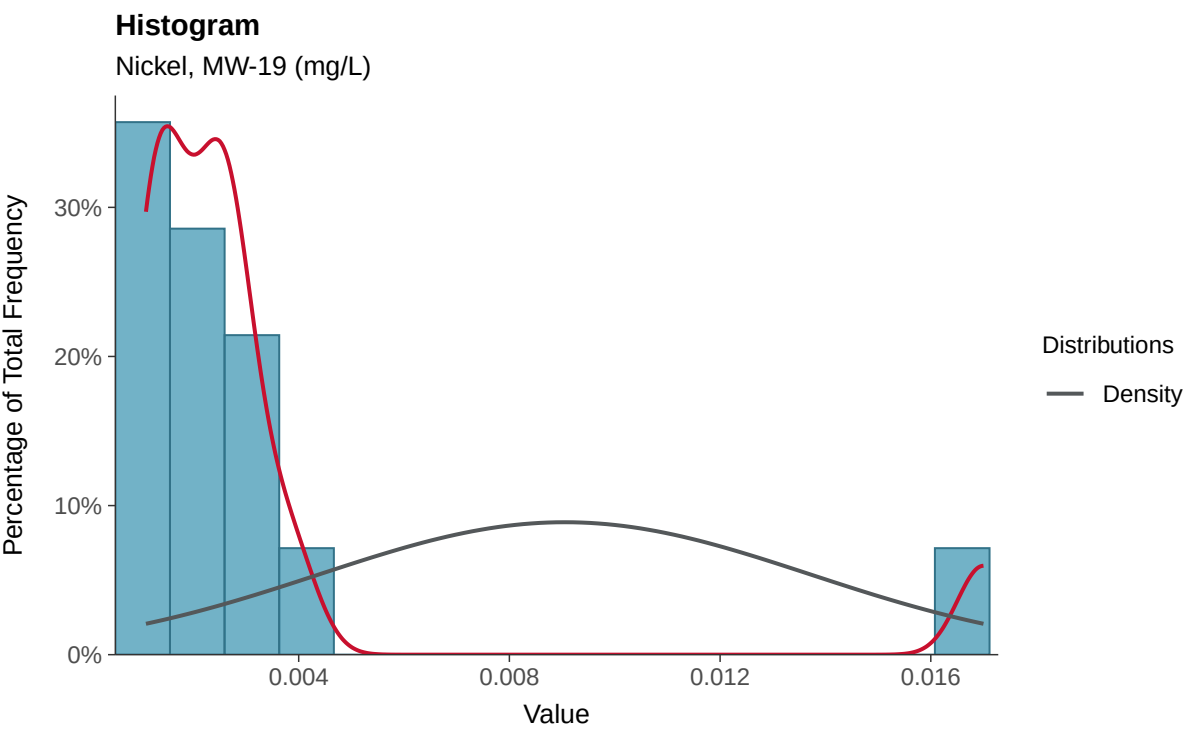
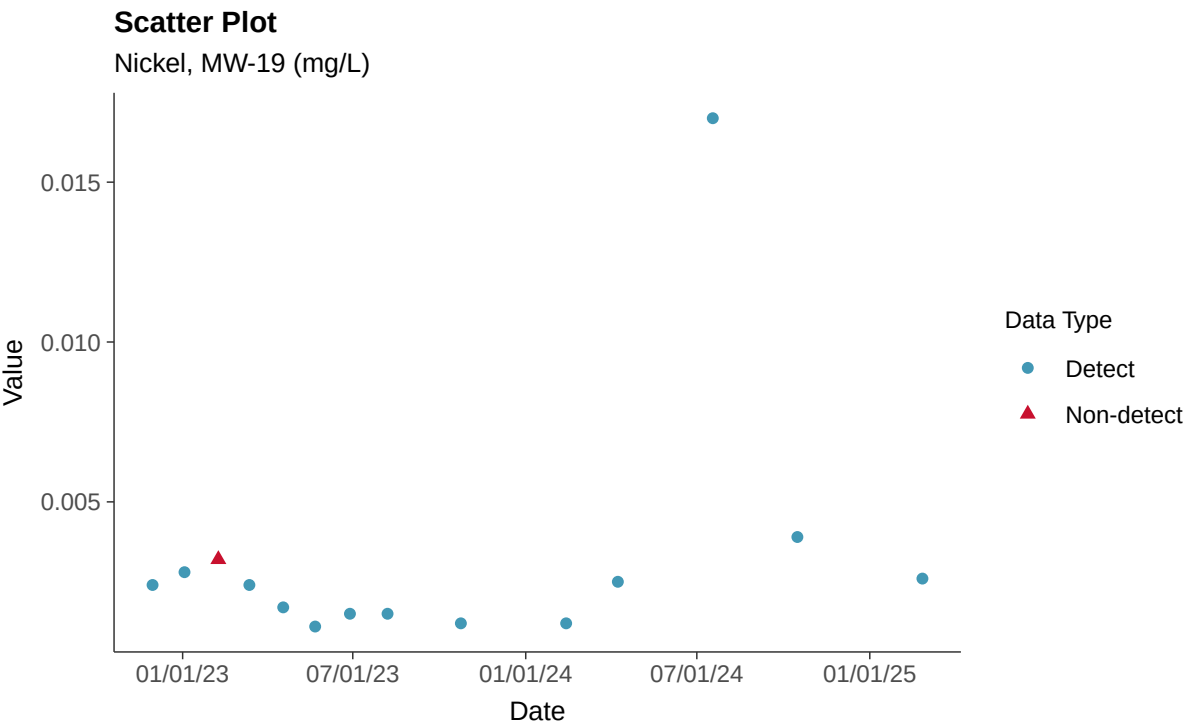


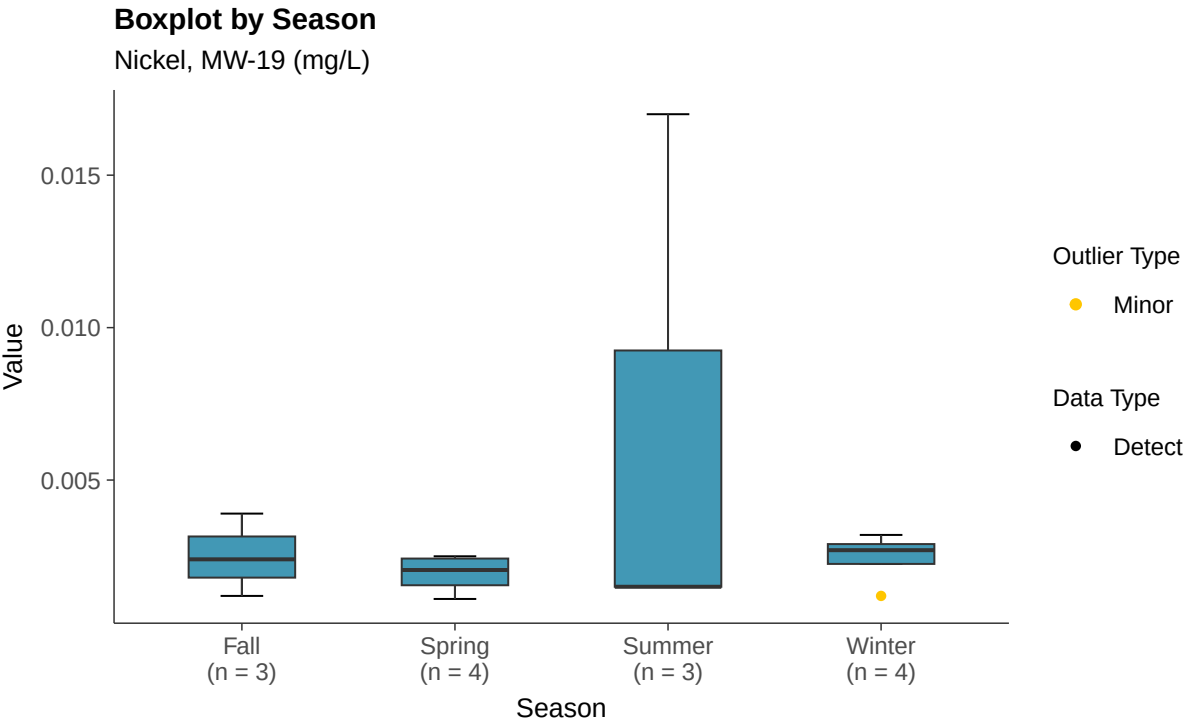
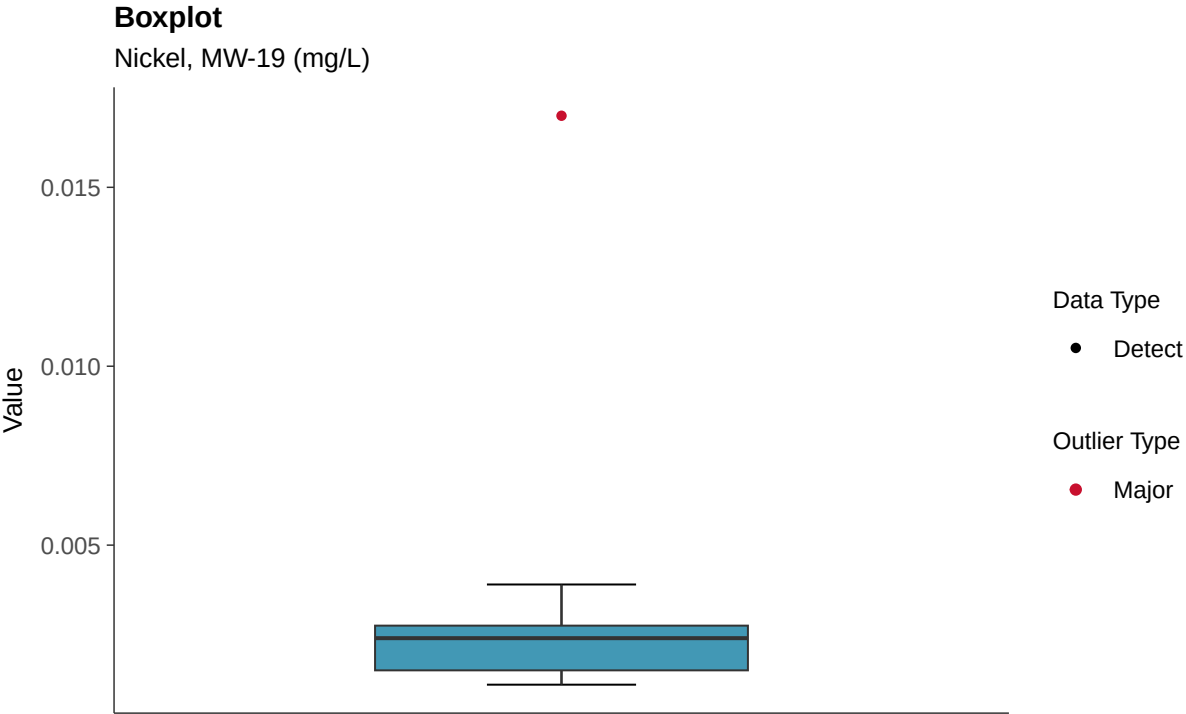




Part 115: Nickel, MW-19

ID: 29_1_5_119

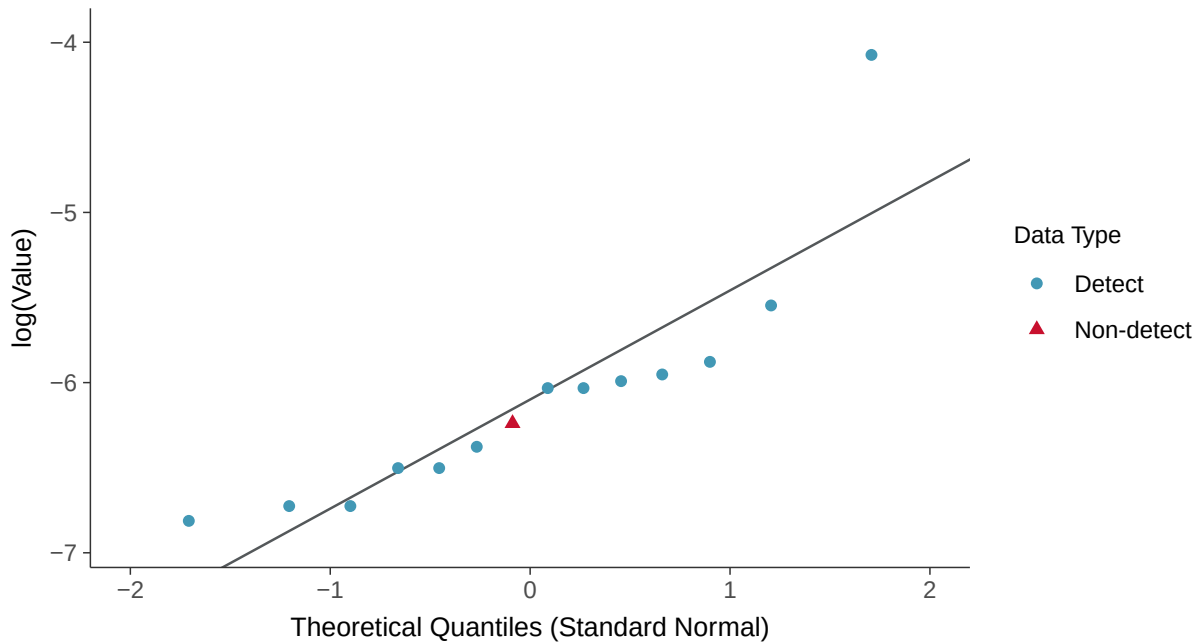






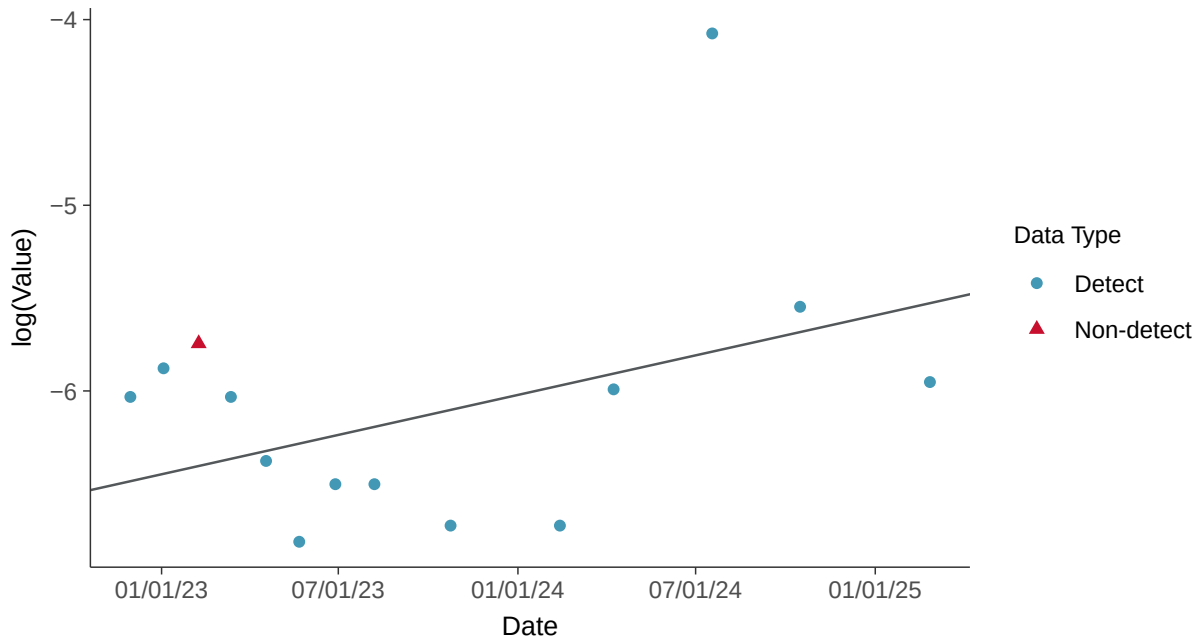
Lognormal Q-Q plot using ROS Imputed Estimates

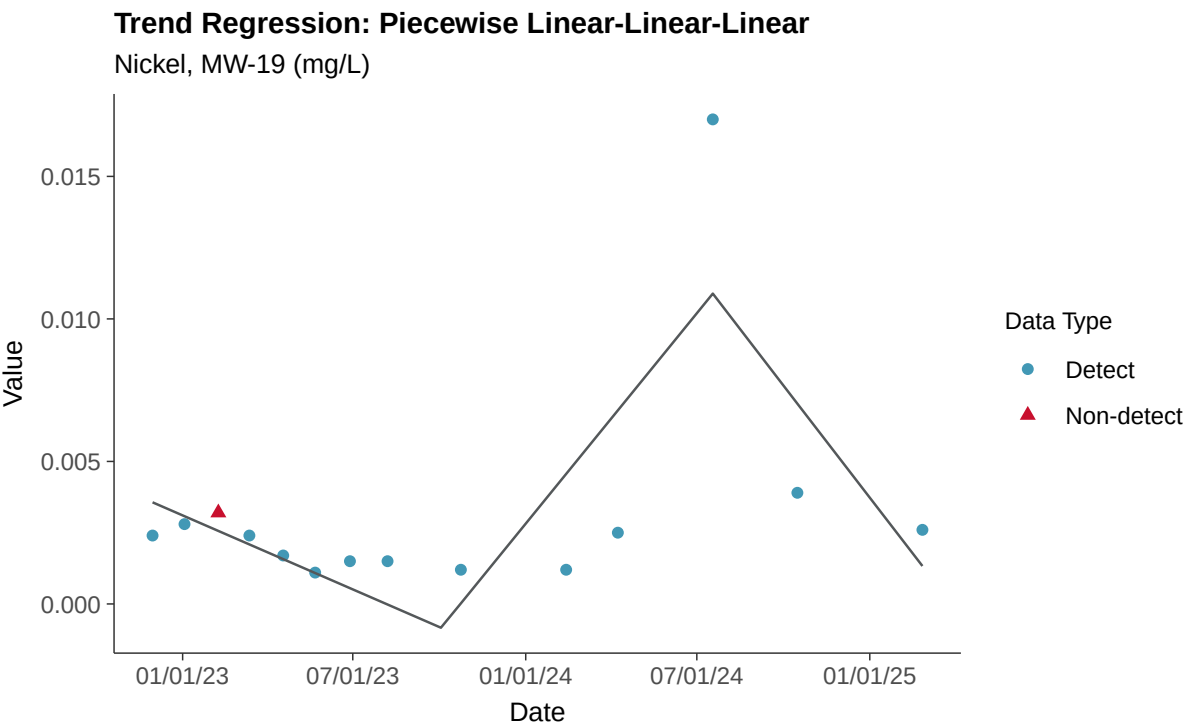
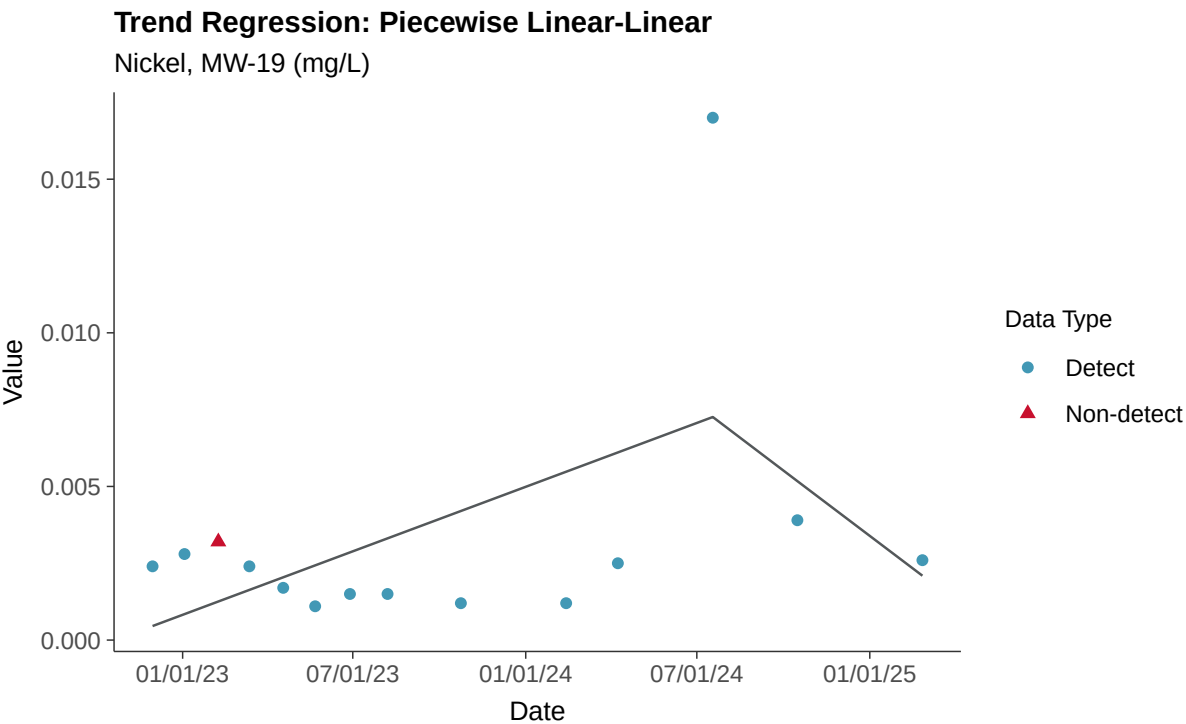
Nickel, MW-19 (mg/L)



Trend Regression: Lognormal MLE

Nickel, MW-19 (mg/L)

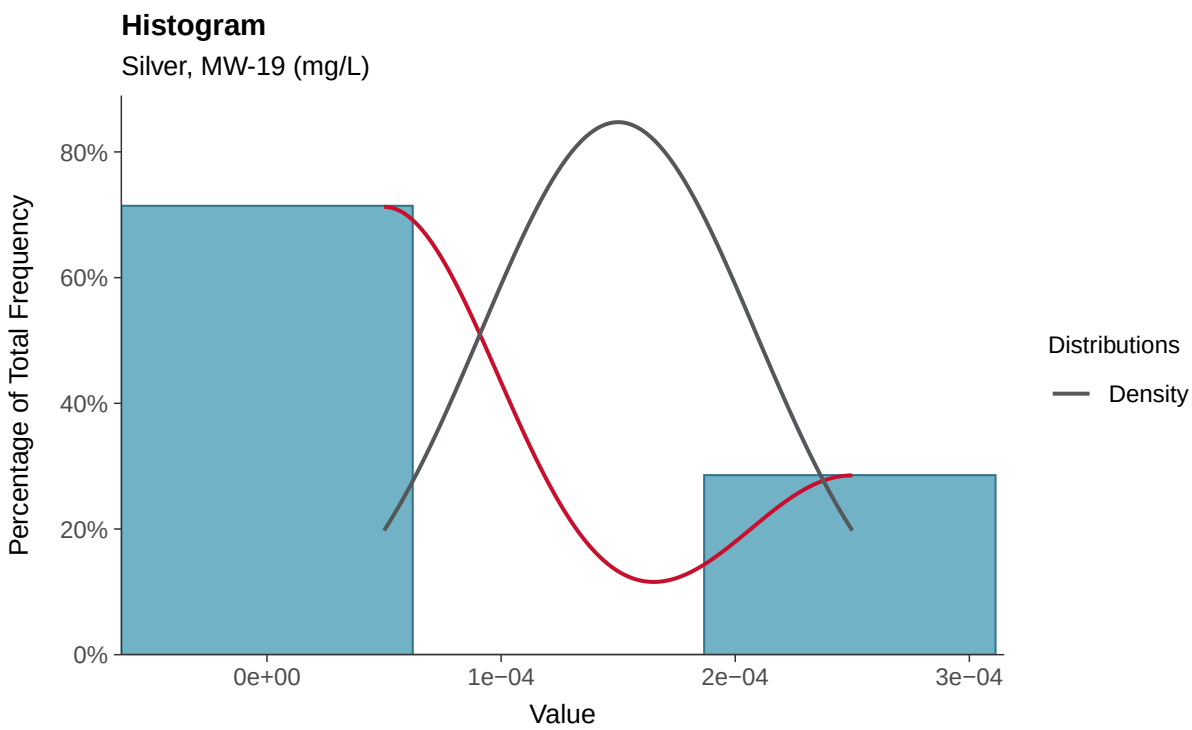
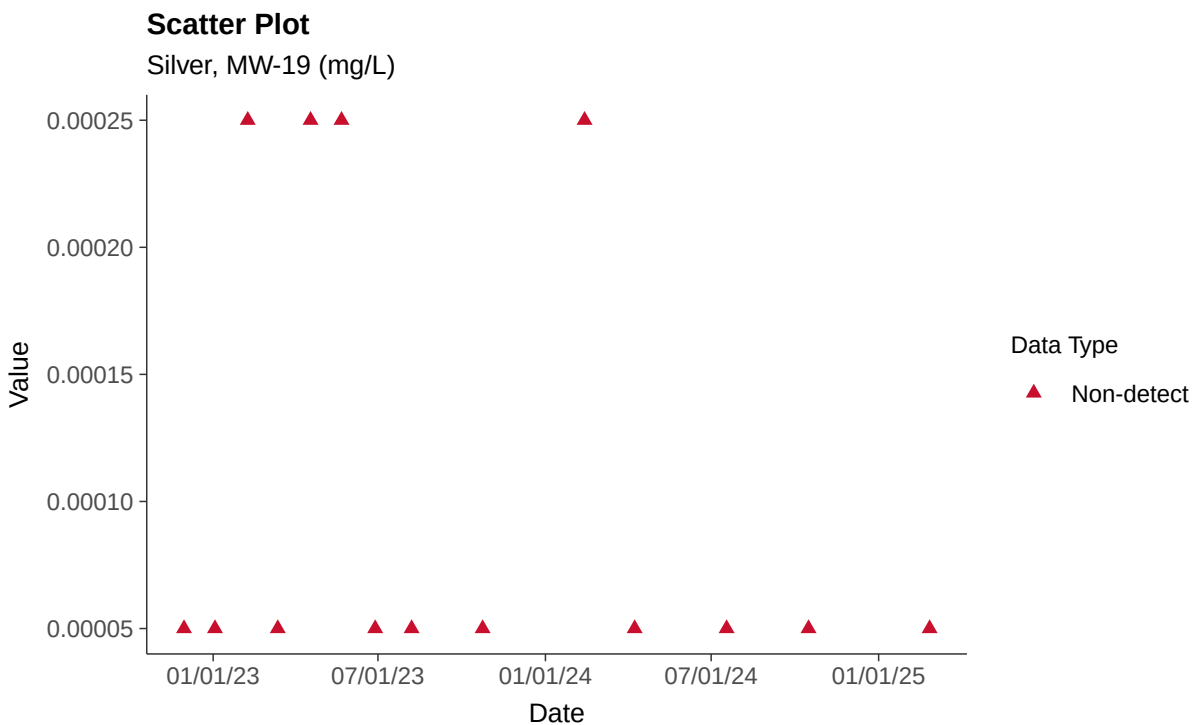


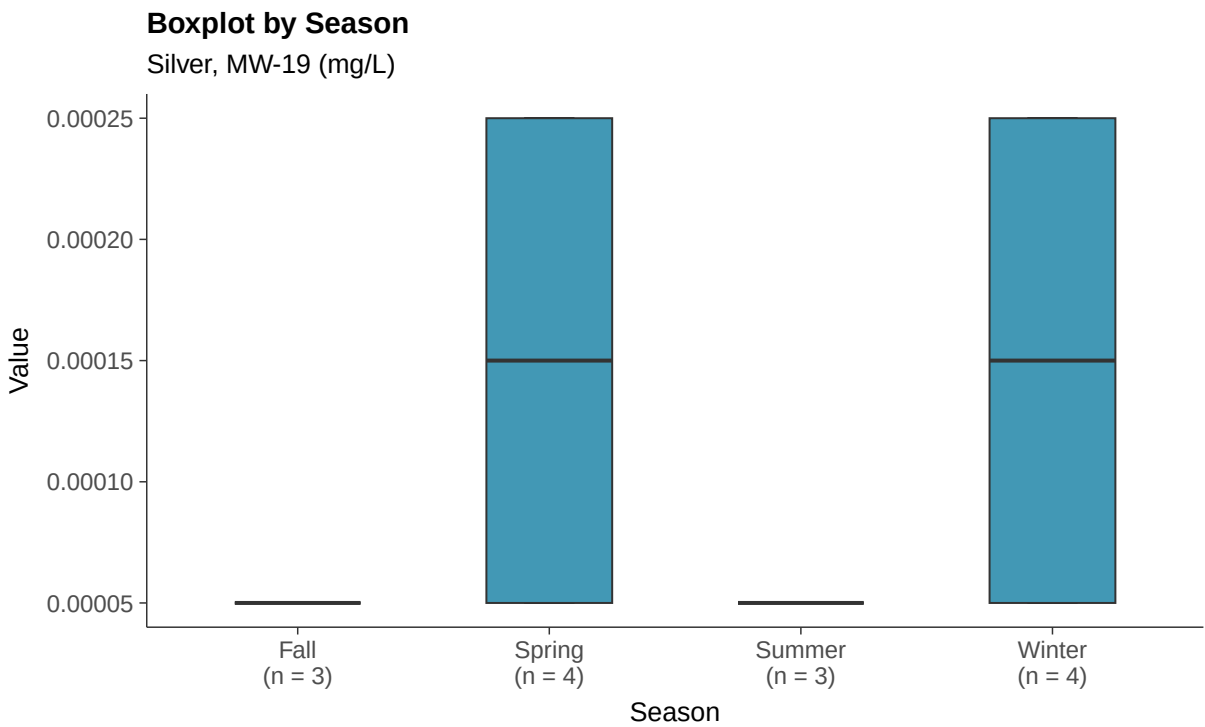
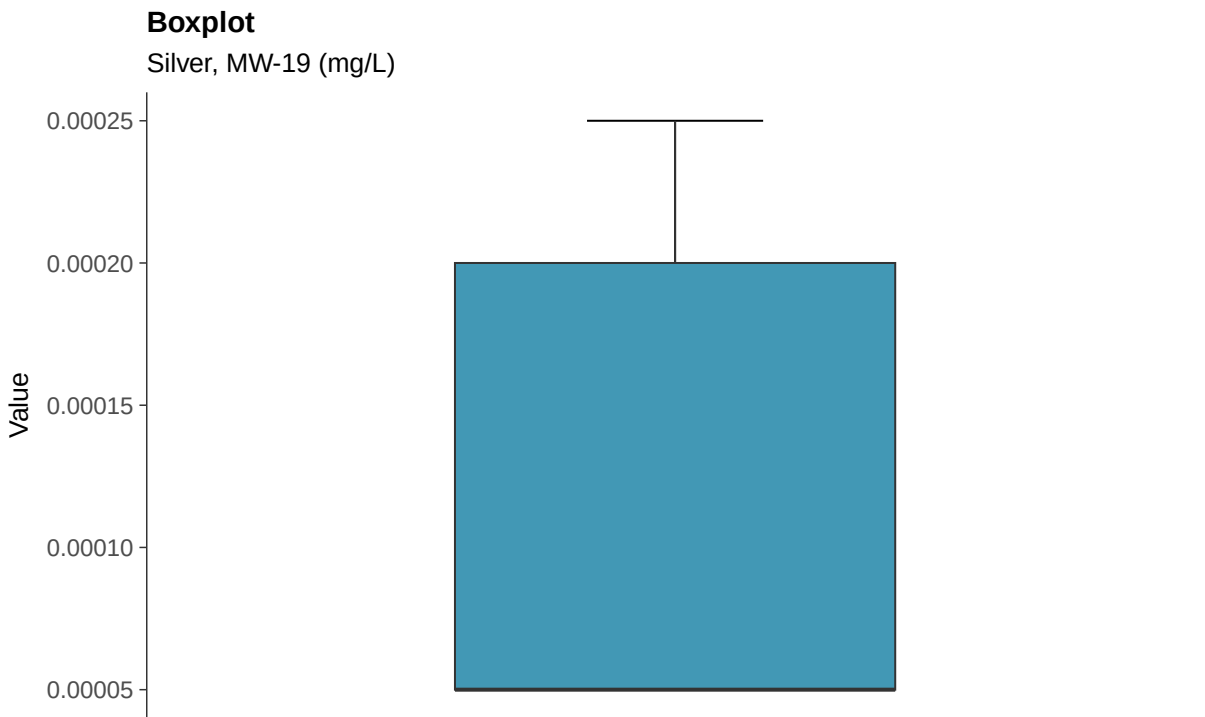




Part 115: Silver, MW-19

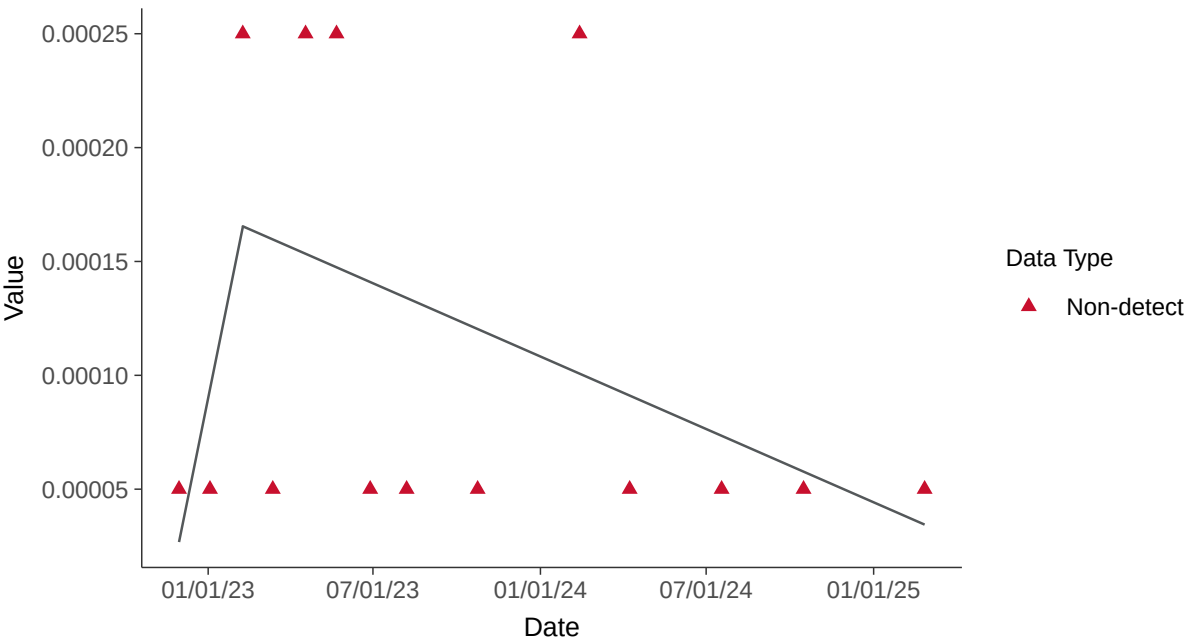
ID: 29_1_5_123



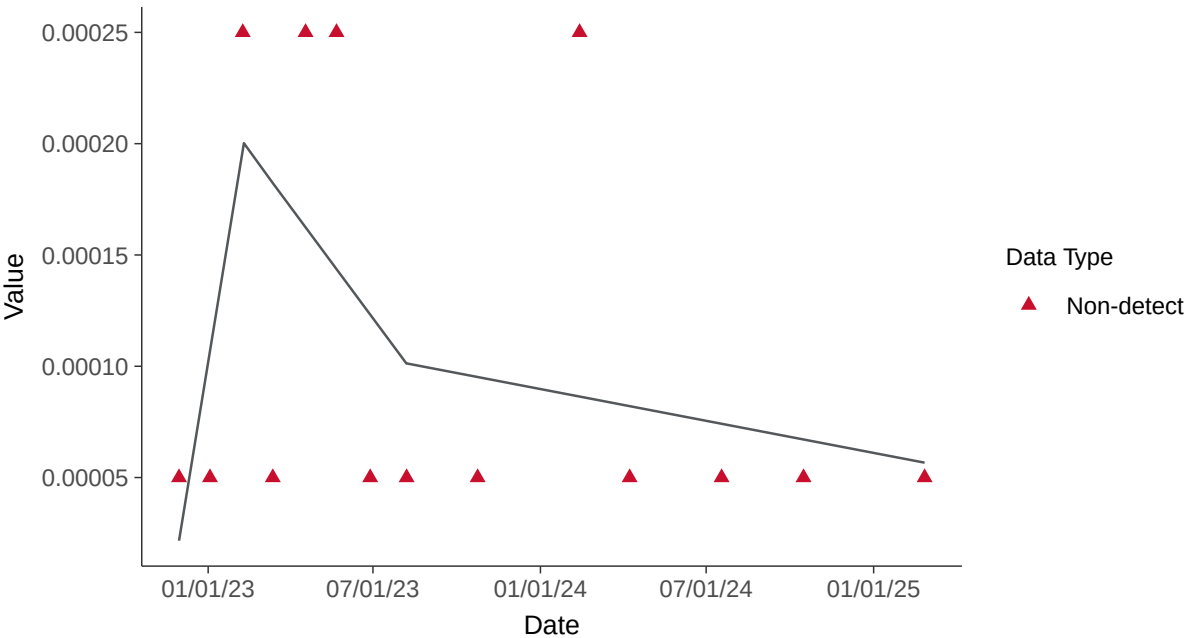




Trend Regression: Piecewise Linear-Linear
Silver, MW-19 (mg/L)



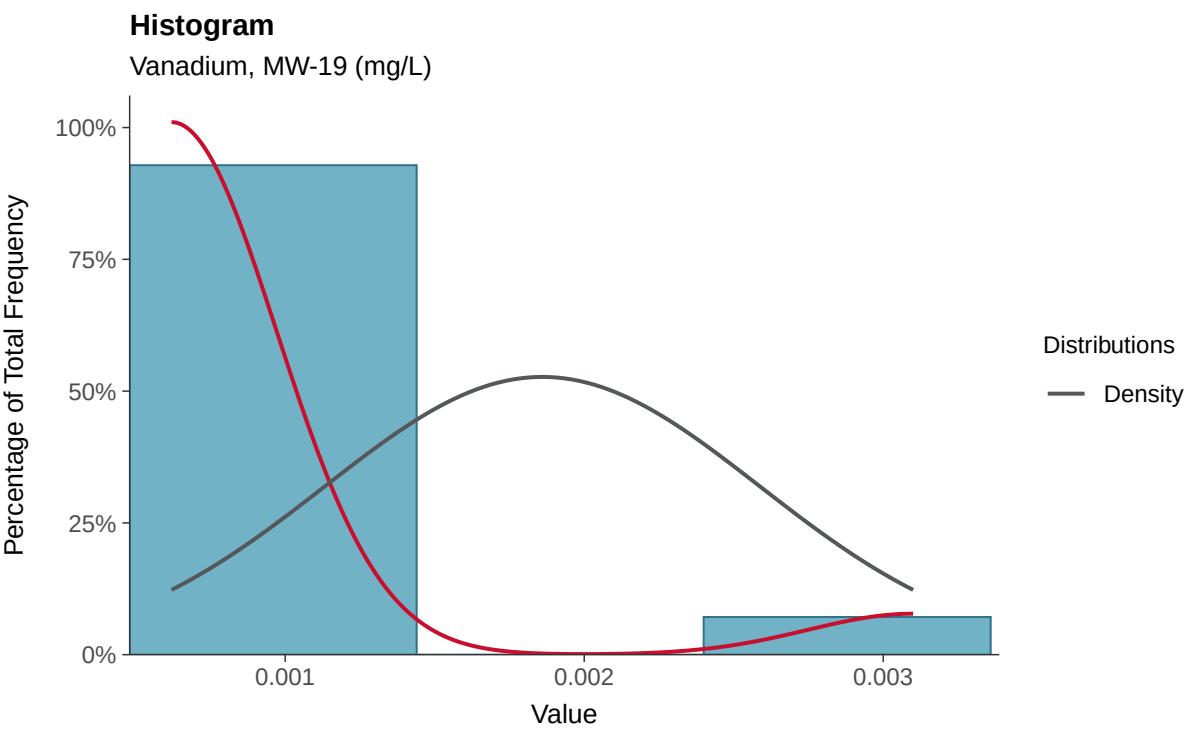
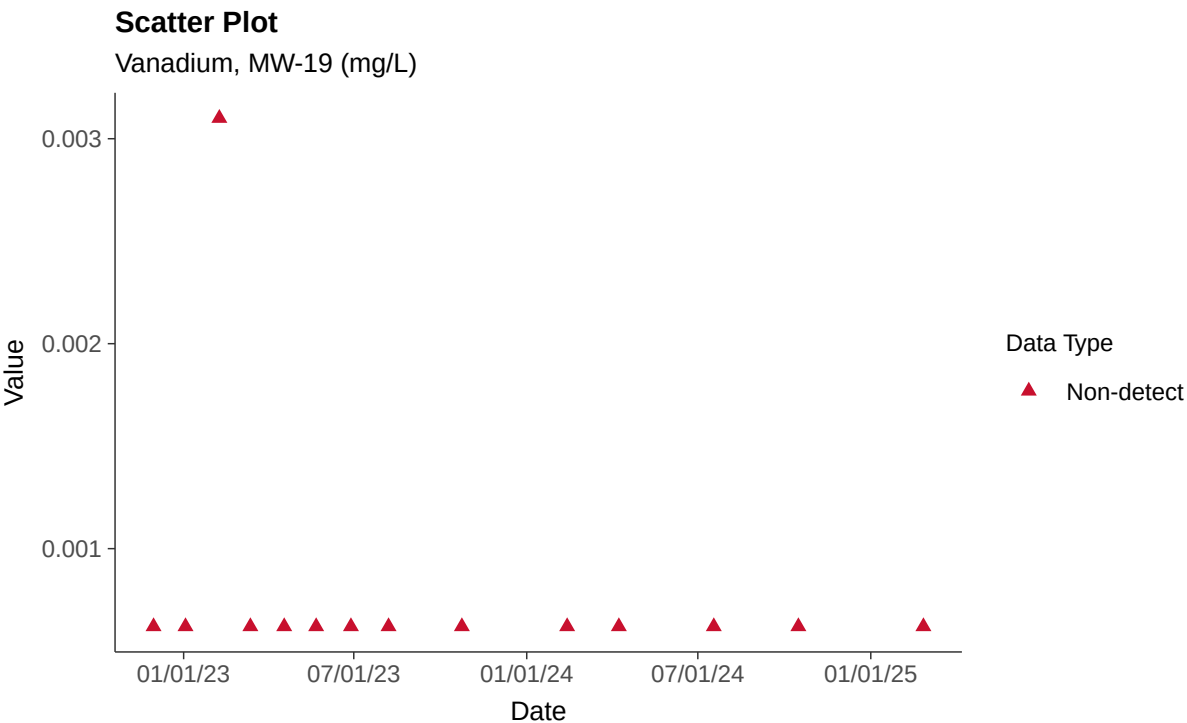
Trend Regression: Piecewise Linear-Linear-Linear
Silver, MW-19 (mg/L)

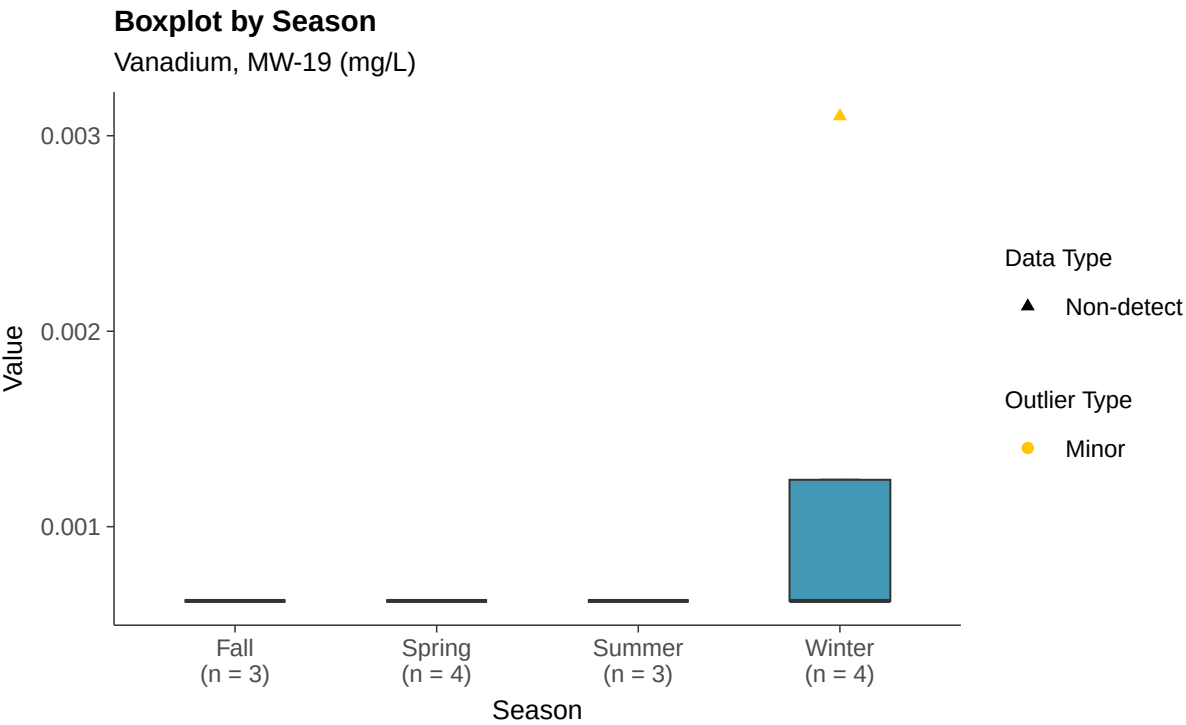
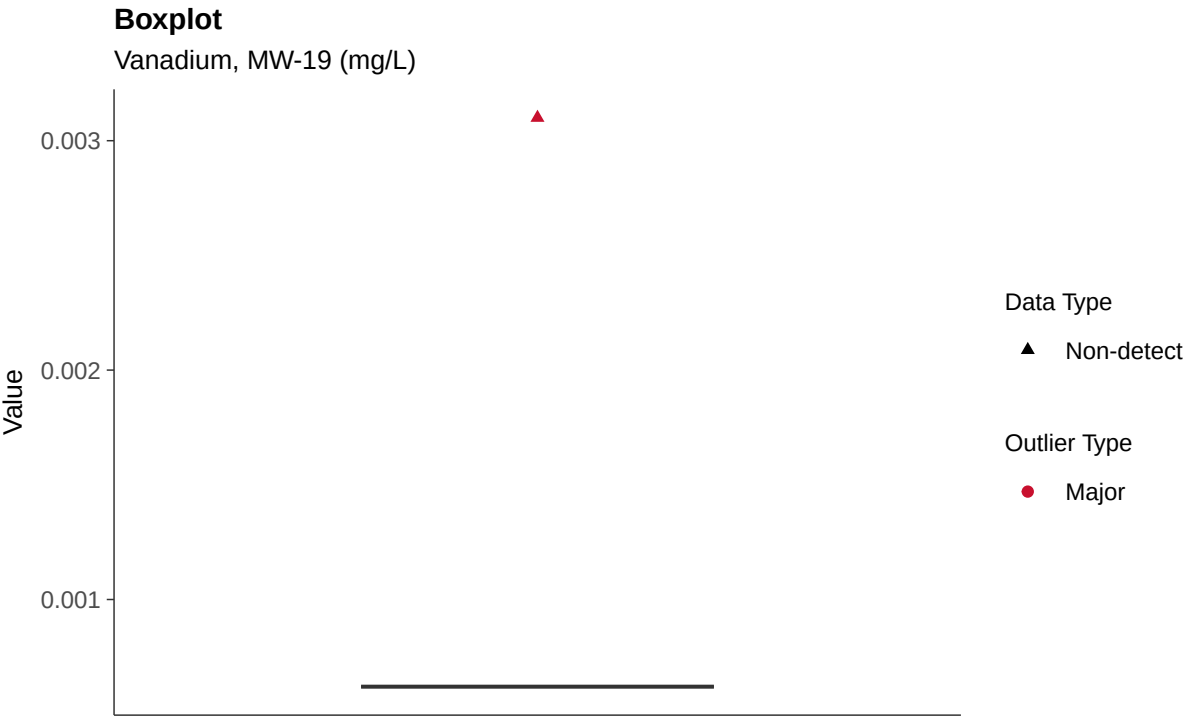


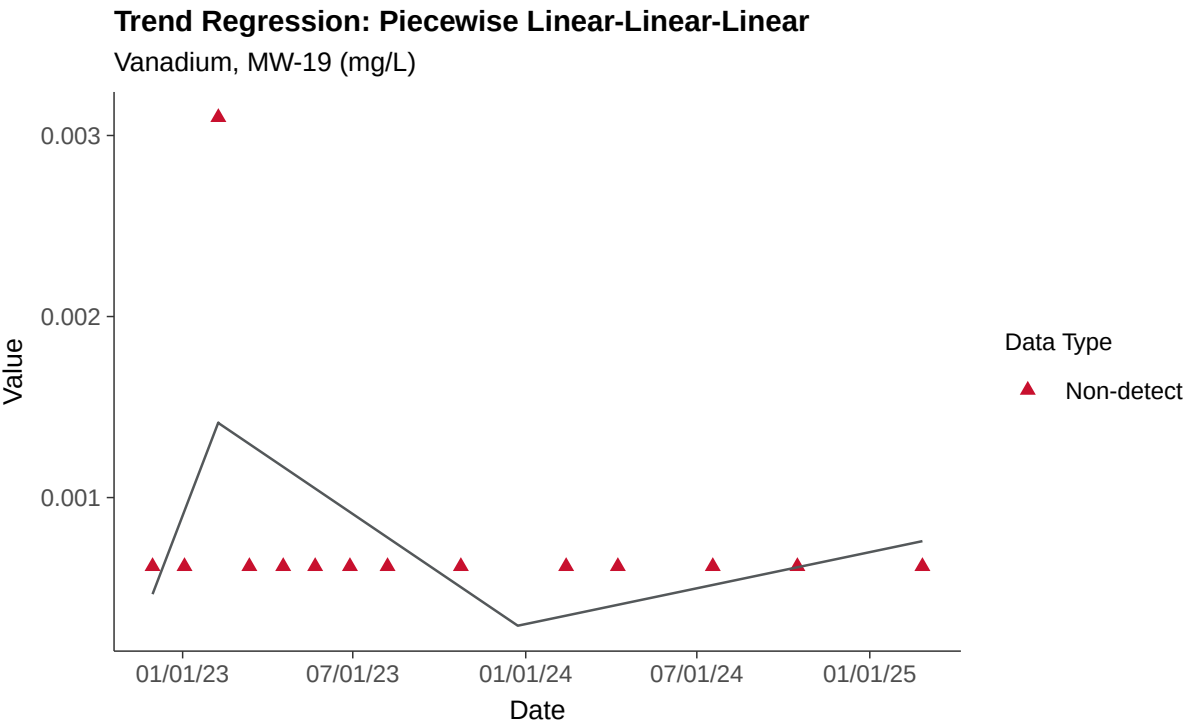
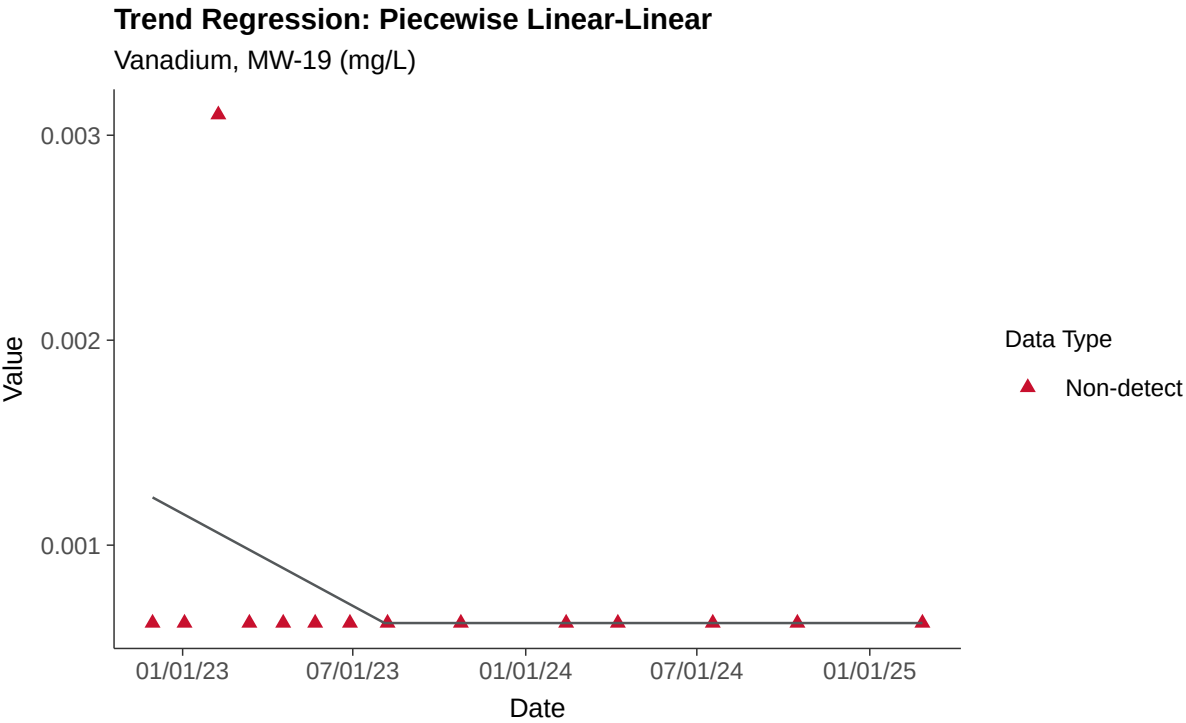


Part 115: Vanadium, MW-19

ID: 29_1_5_128



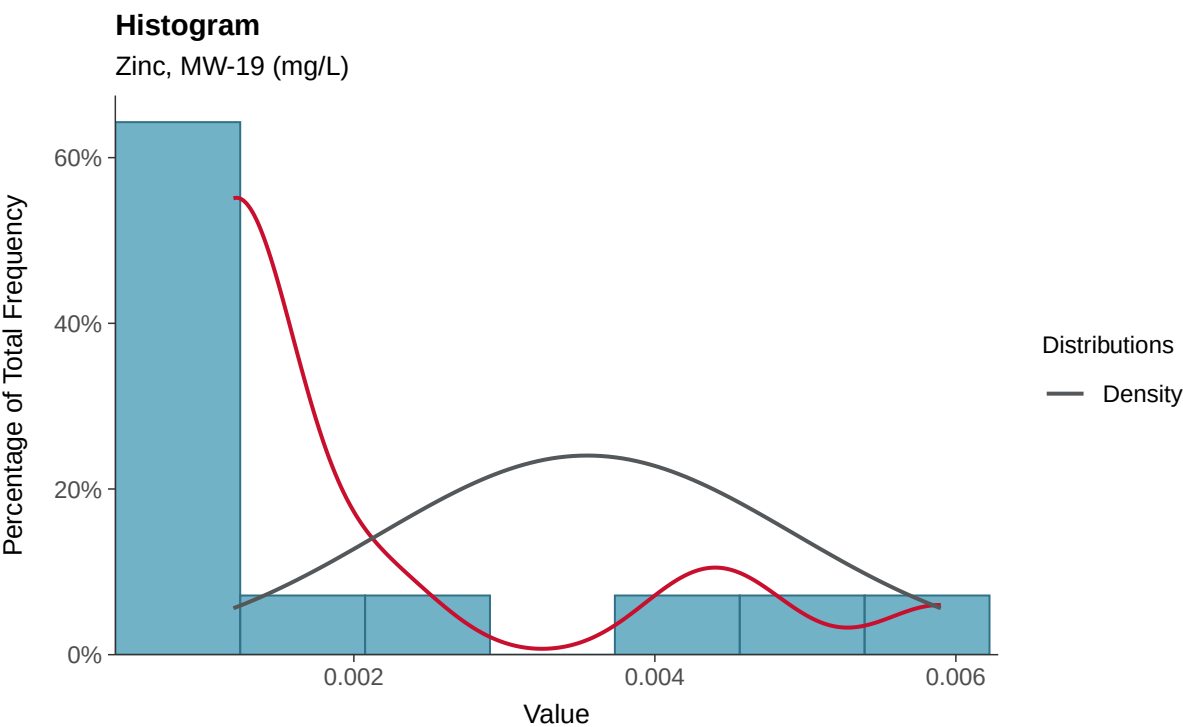
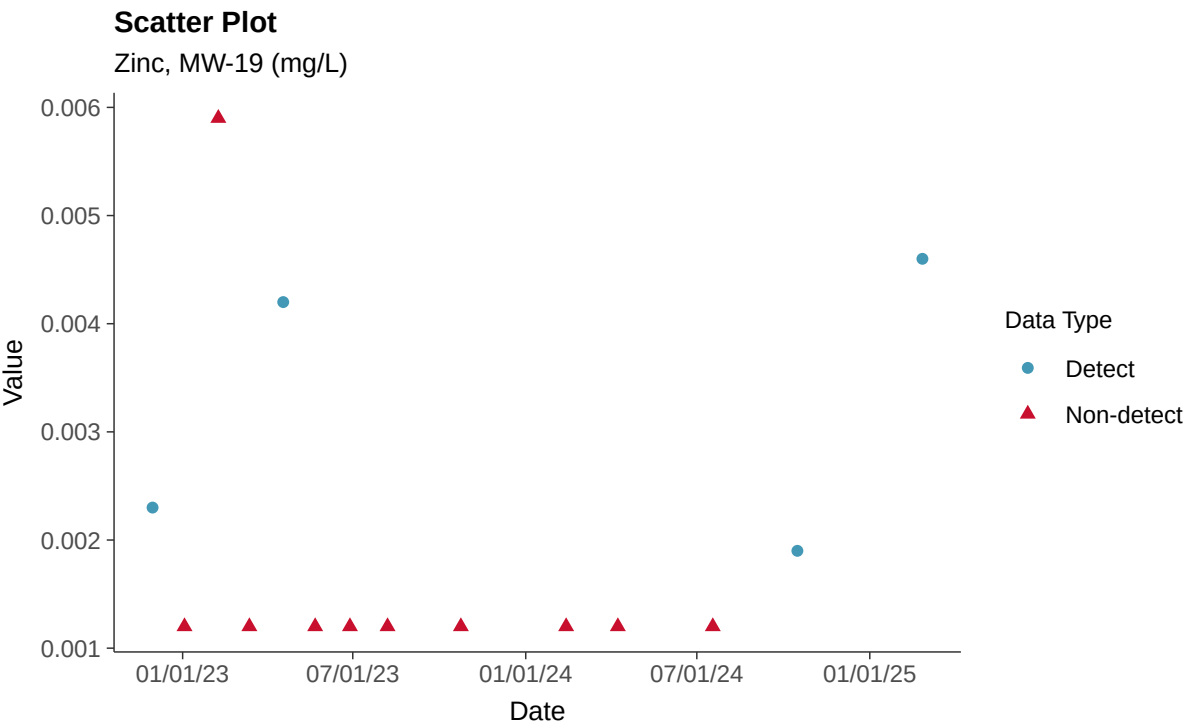


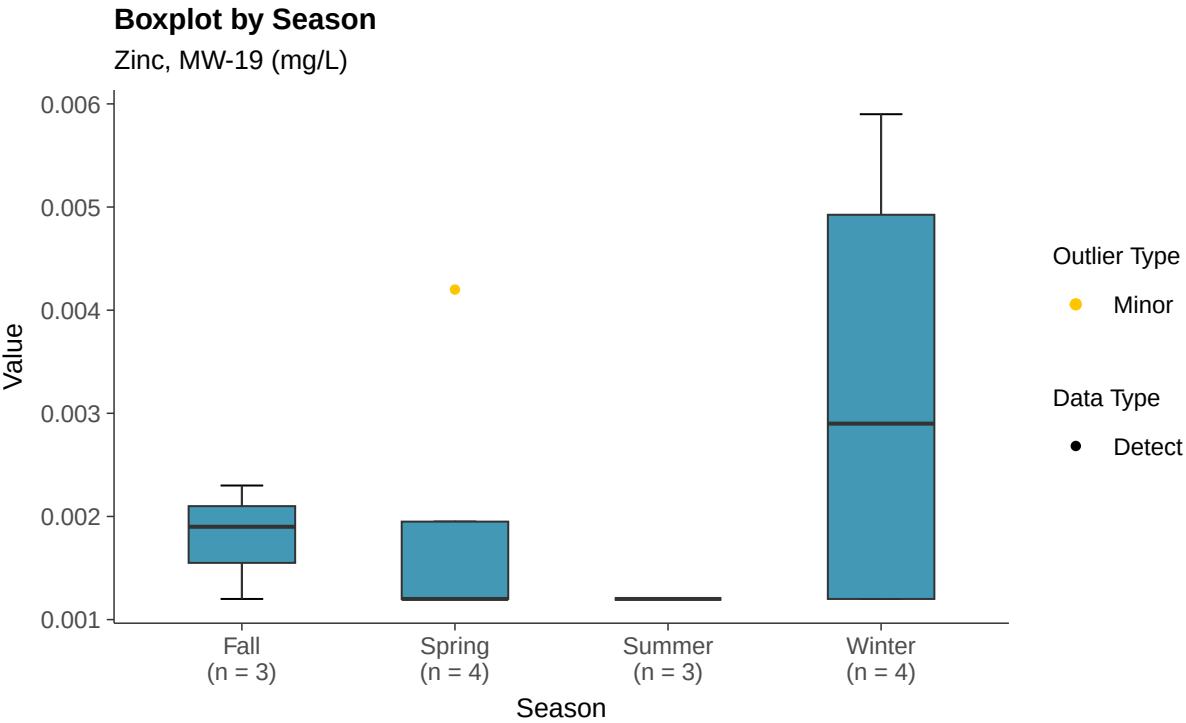
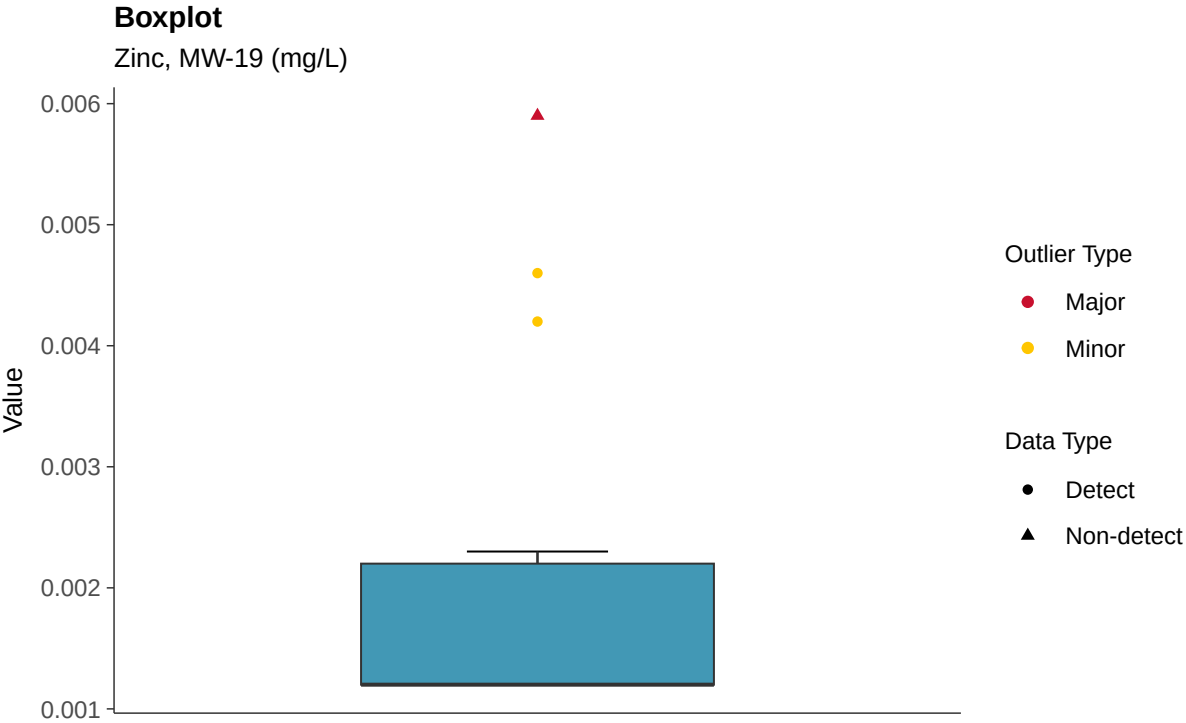


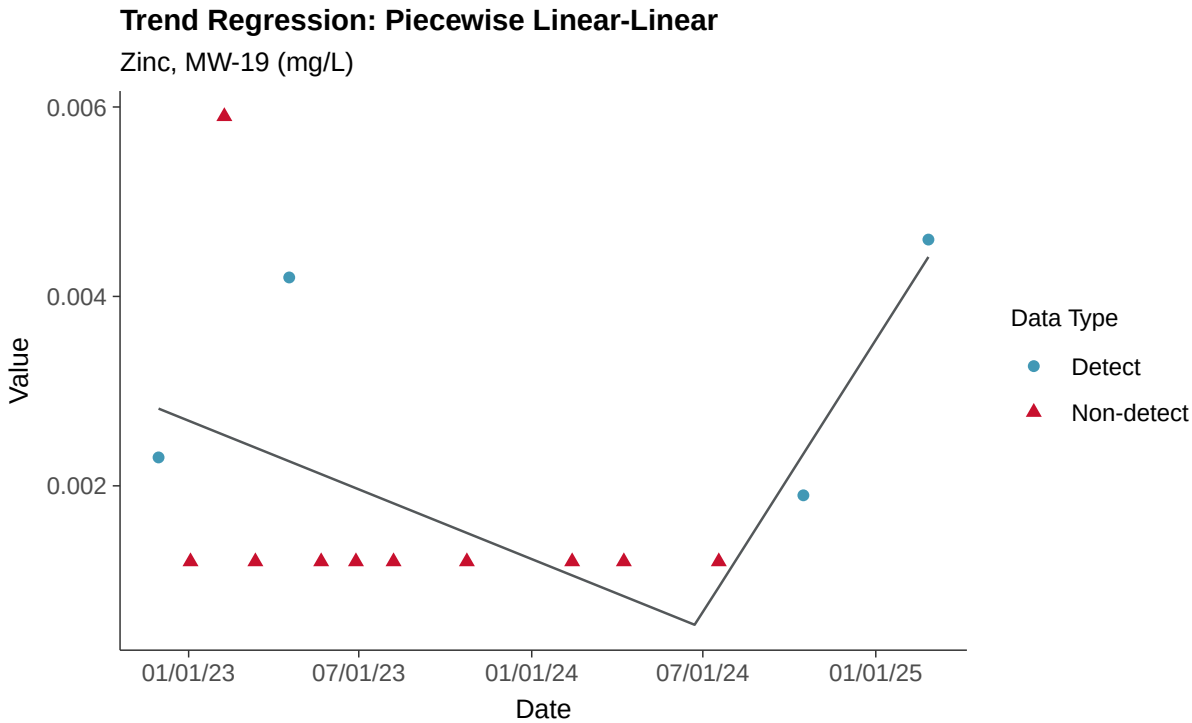
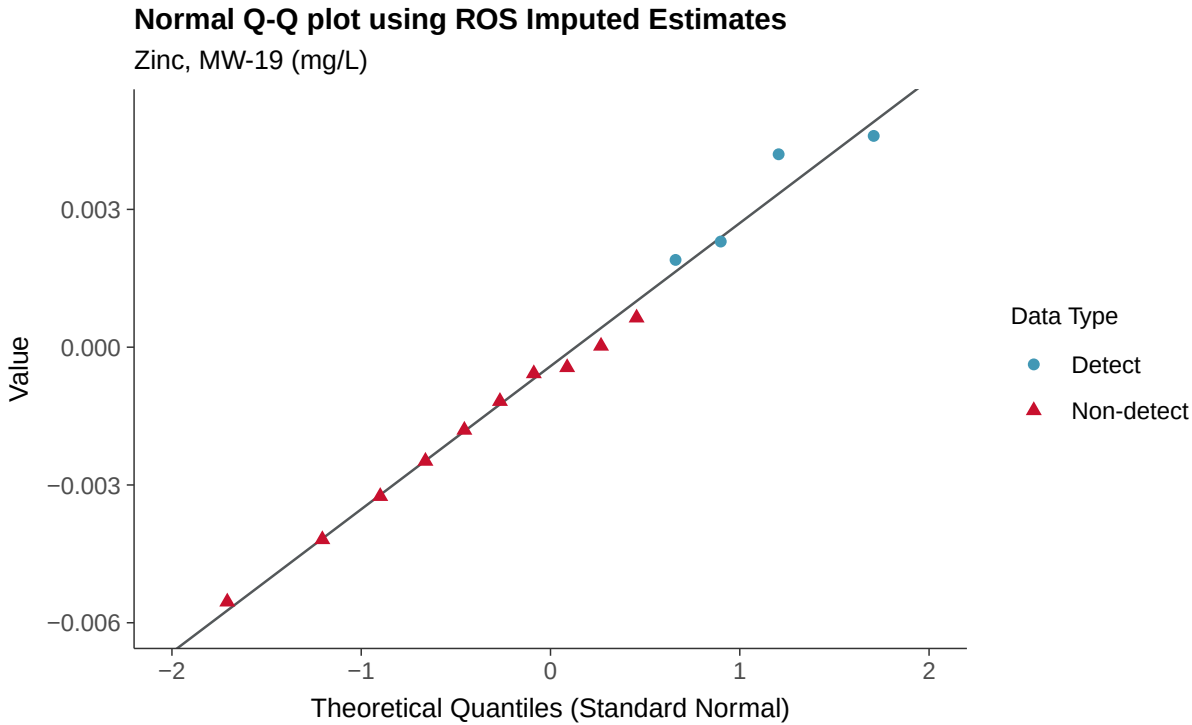


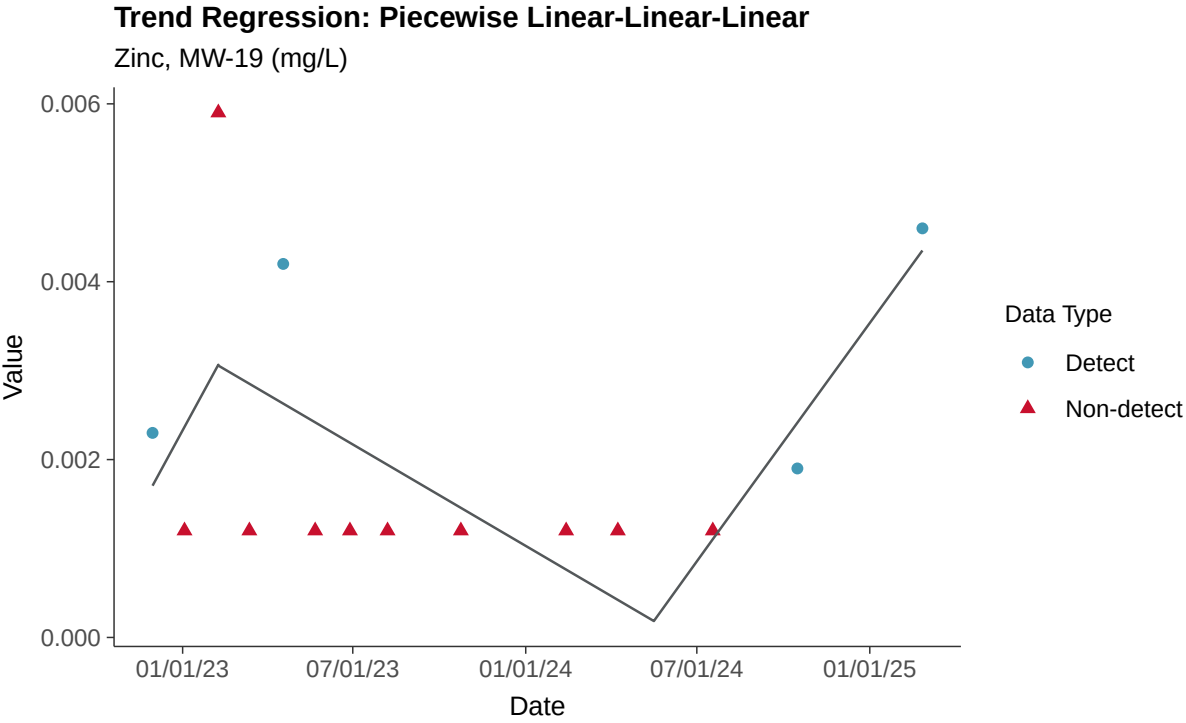
Part 115: Zinc, MW-19

ID: 29_1_5_129





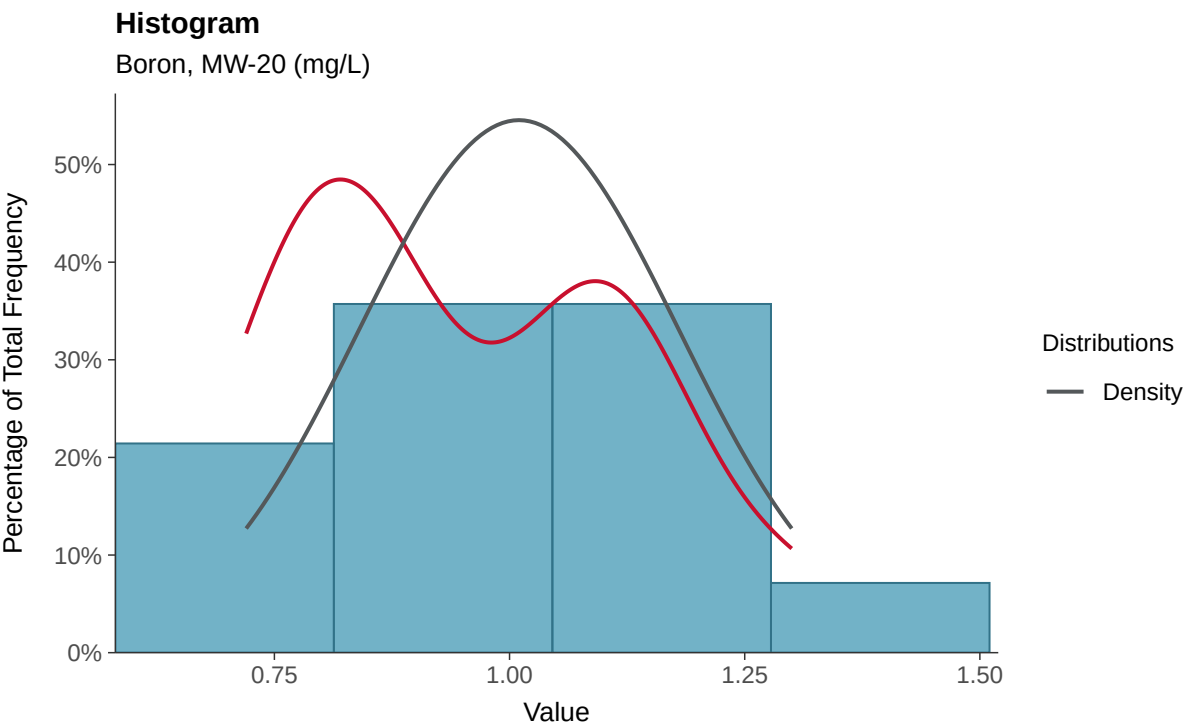
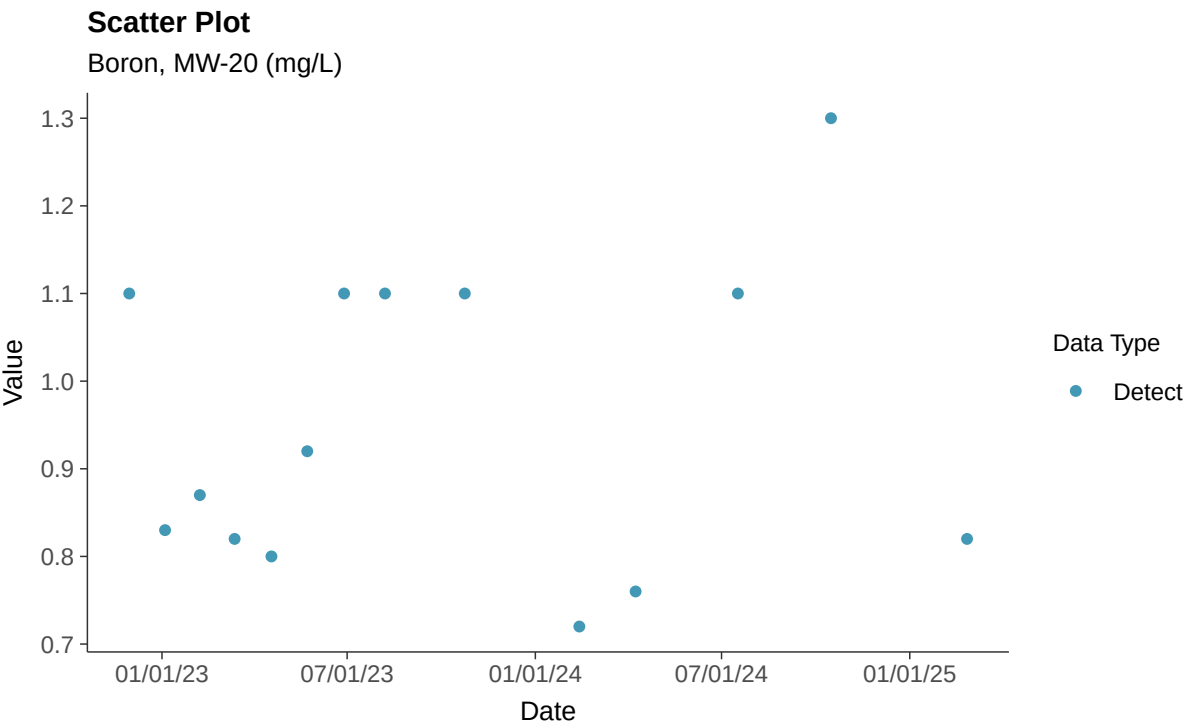


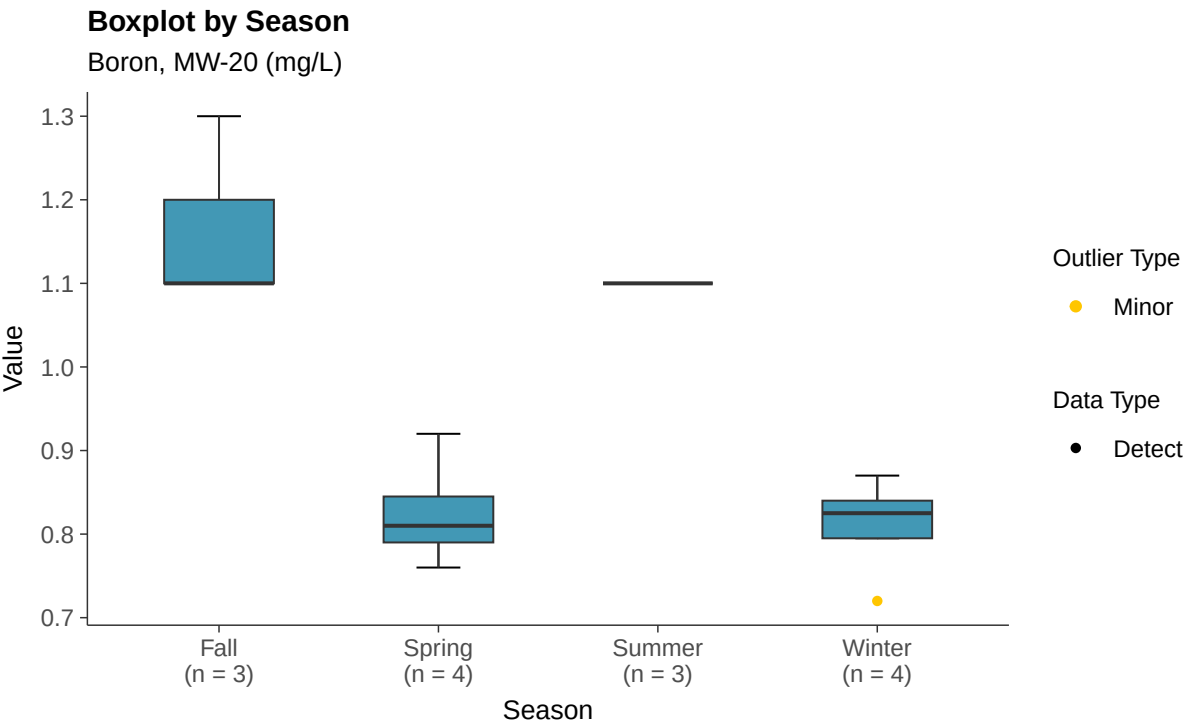
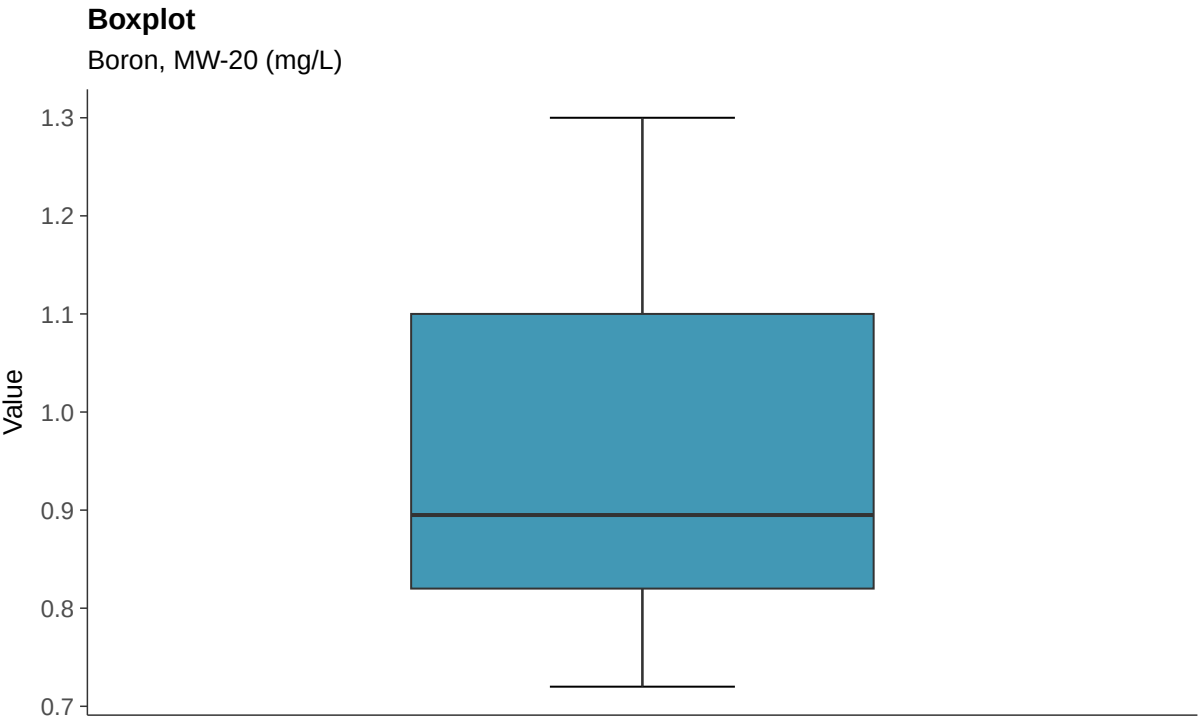


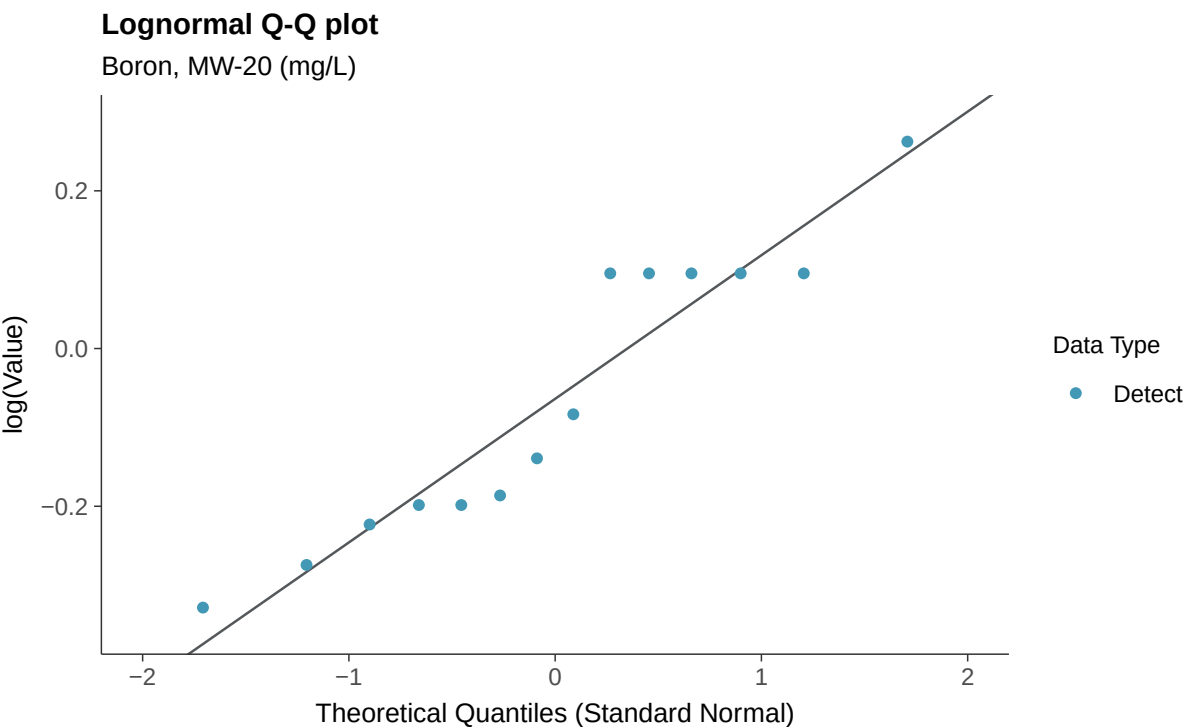
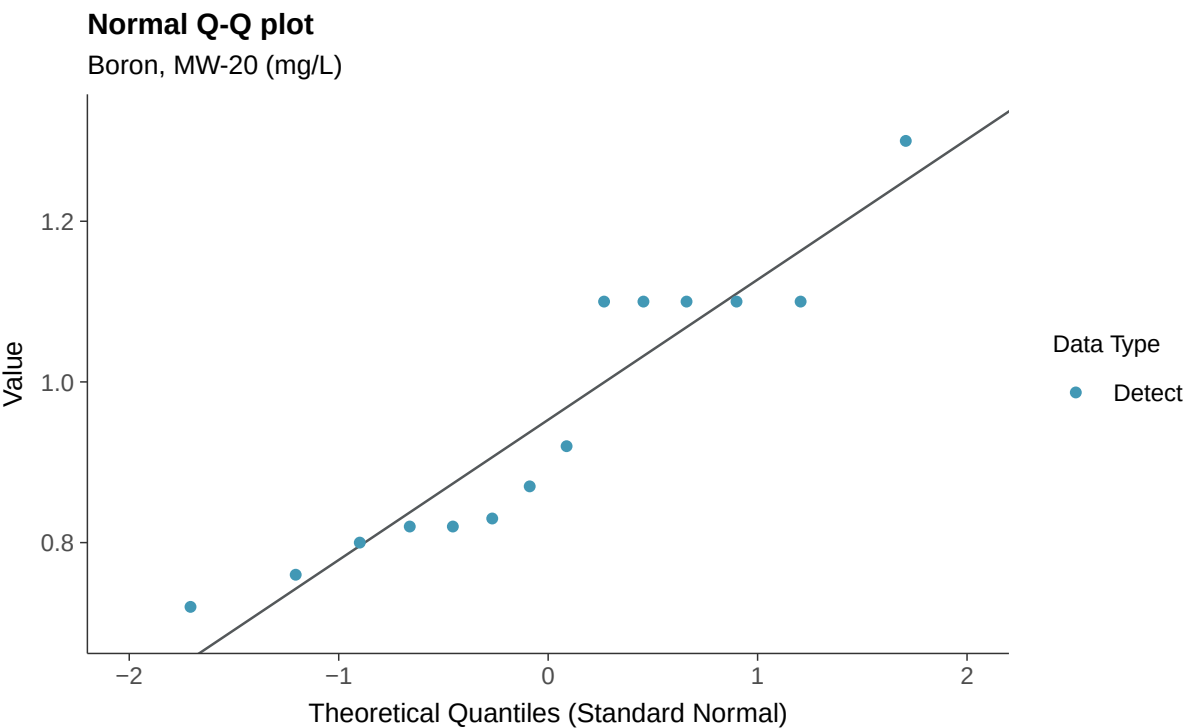


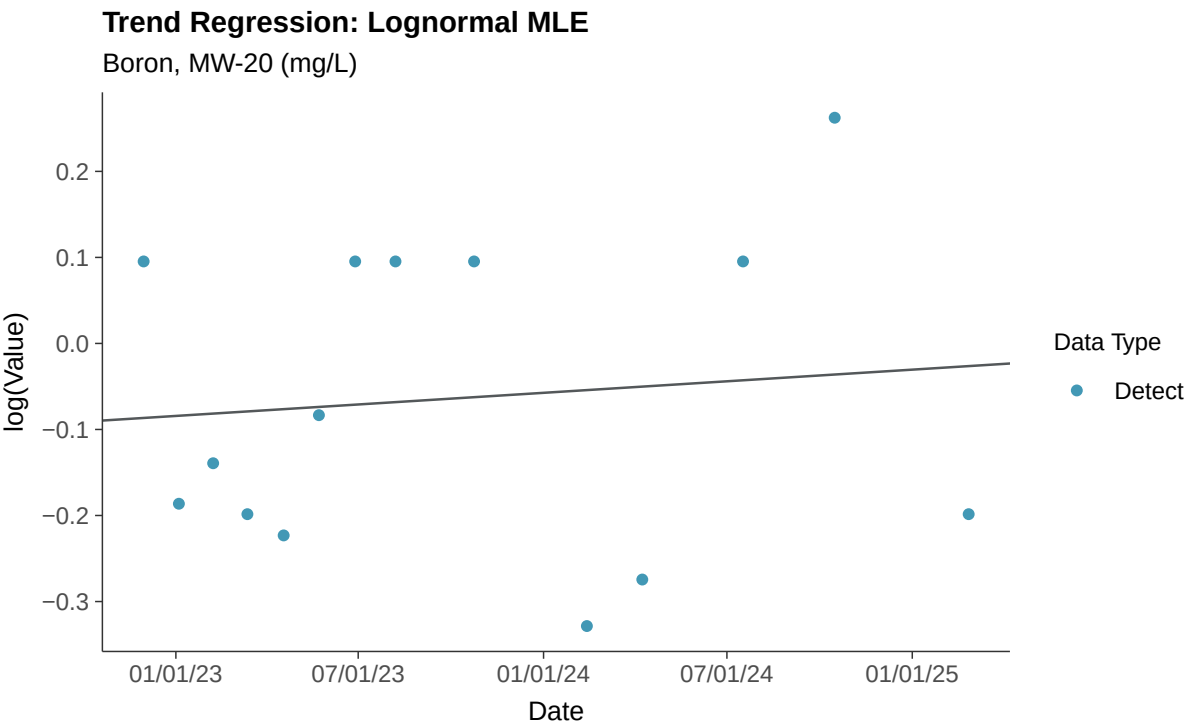
Appendix III: Boron, MW-20

ID: 30_1_3_105





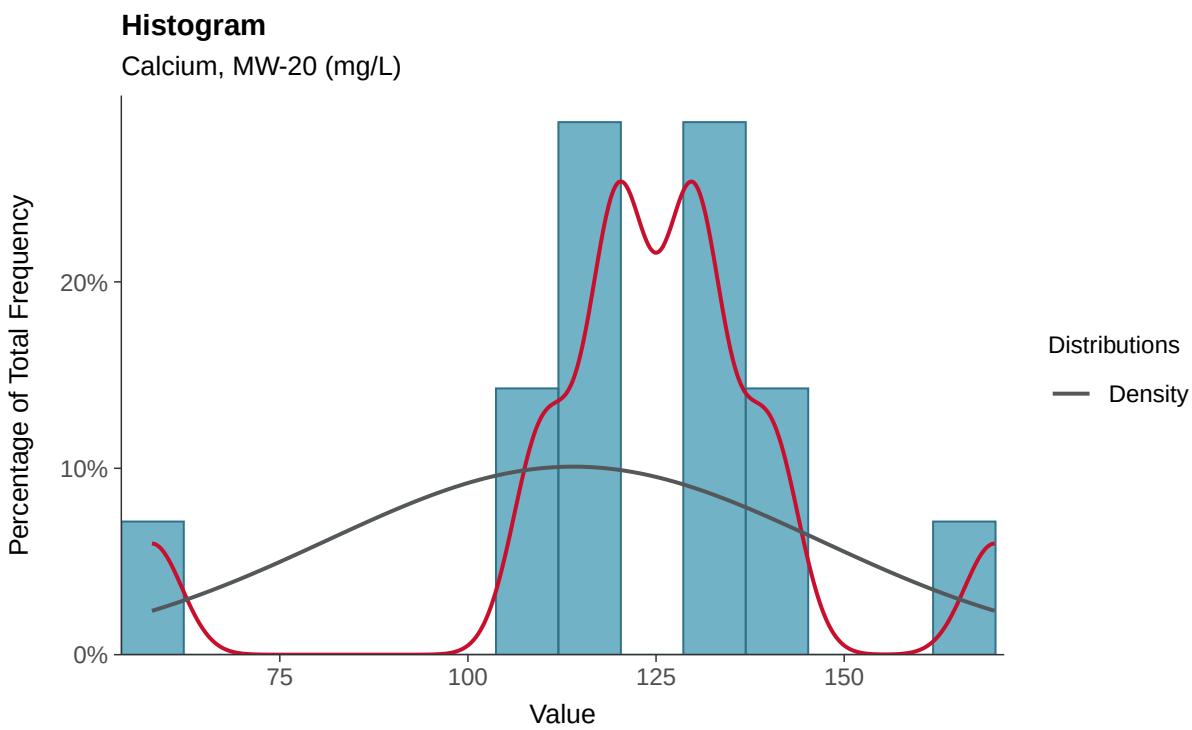
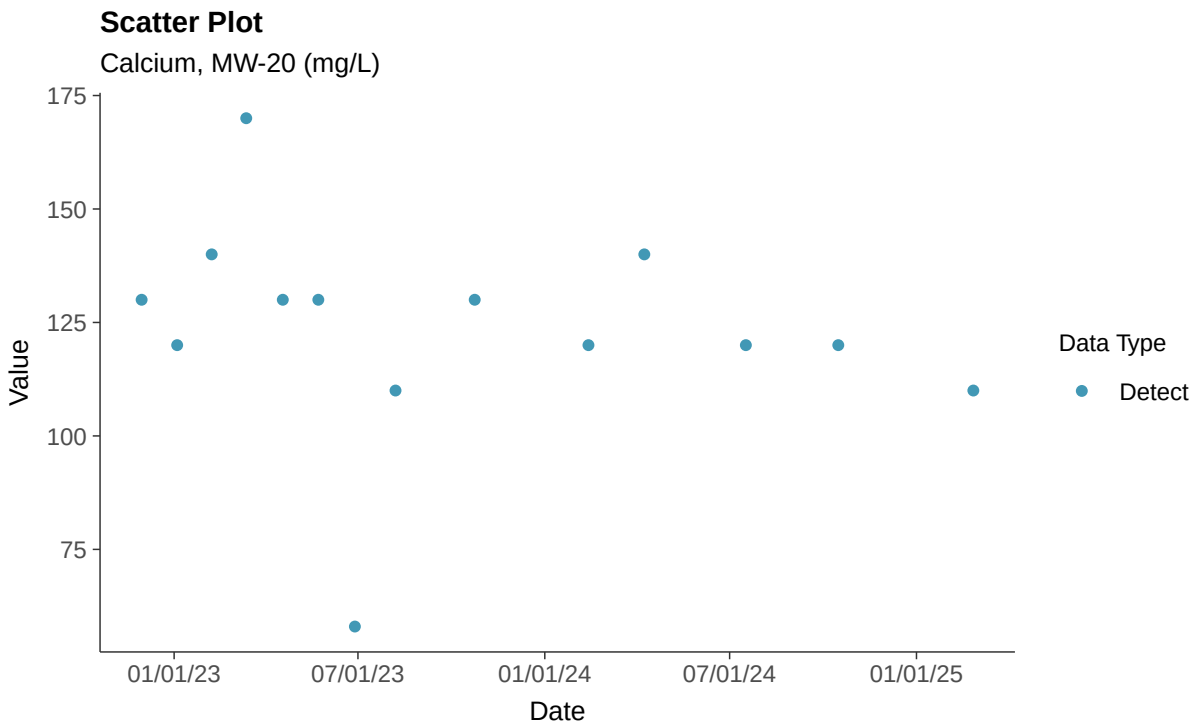


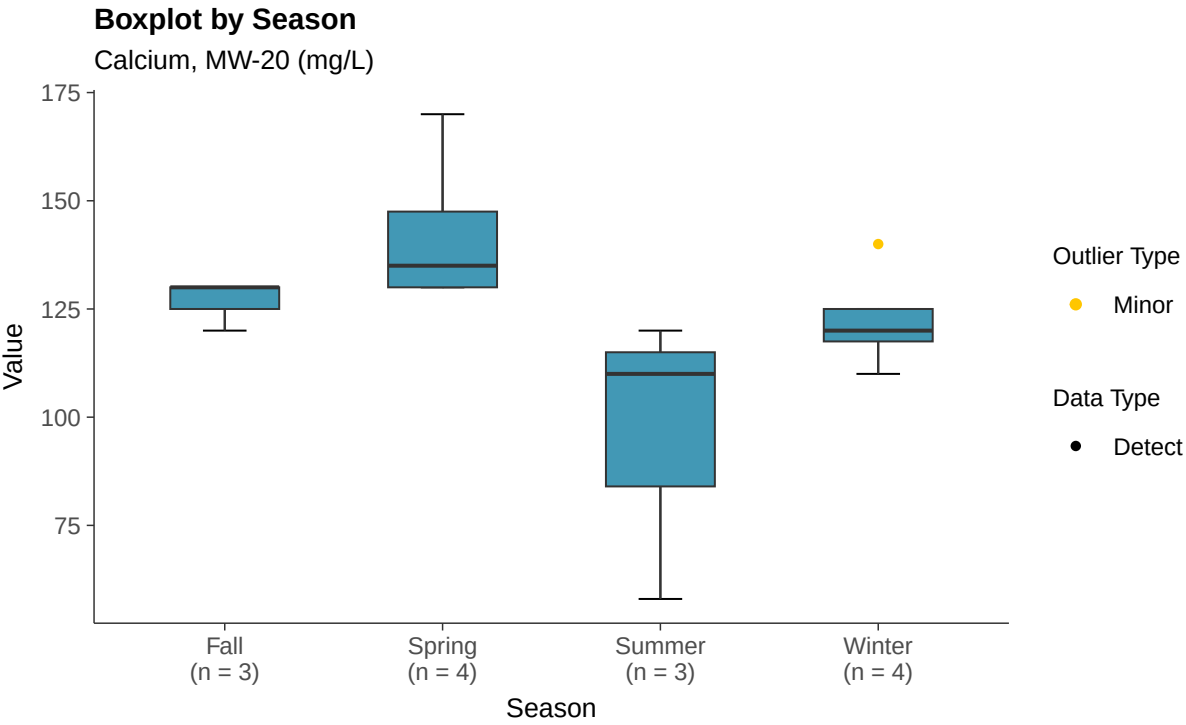
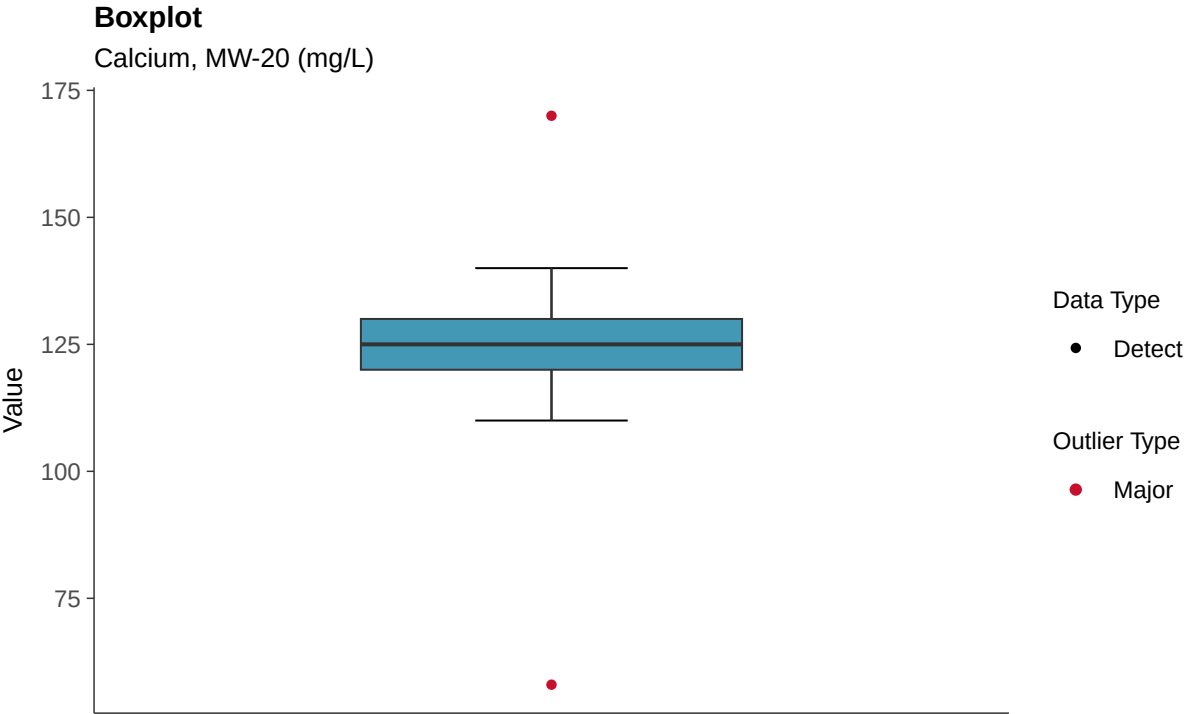


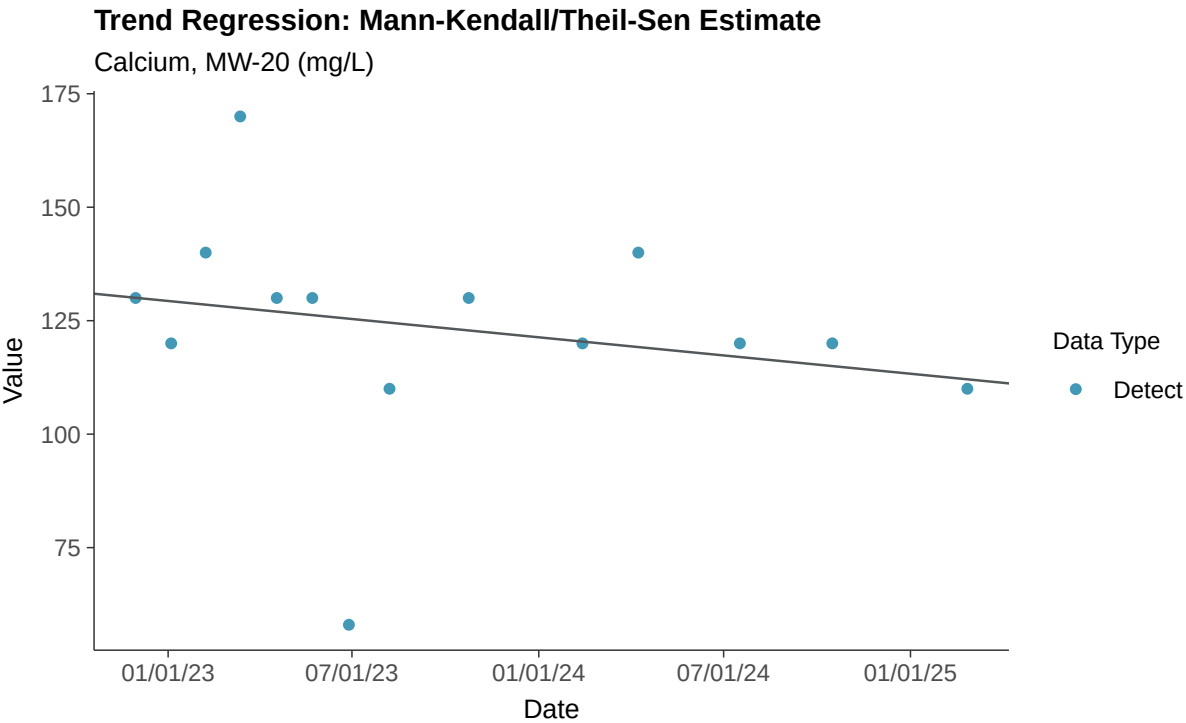
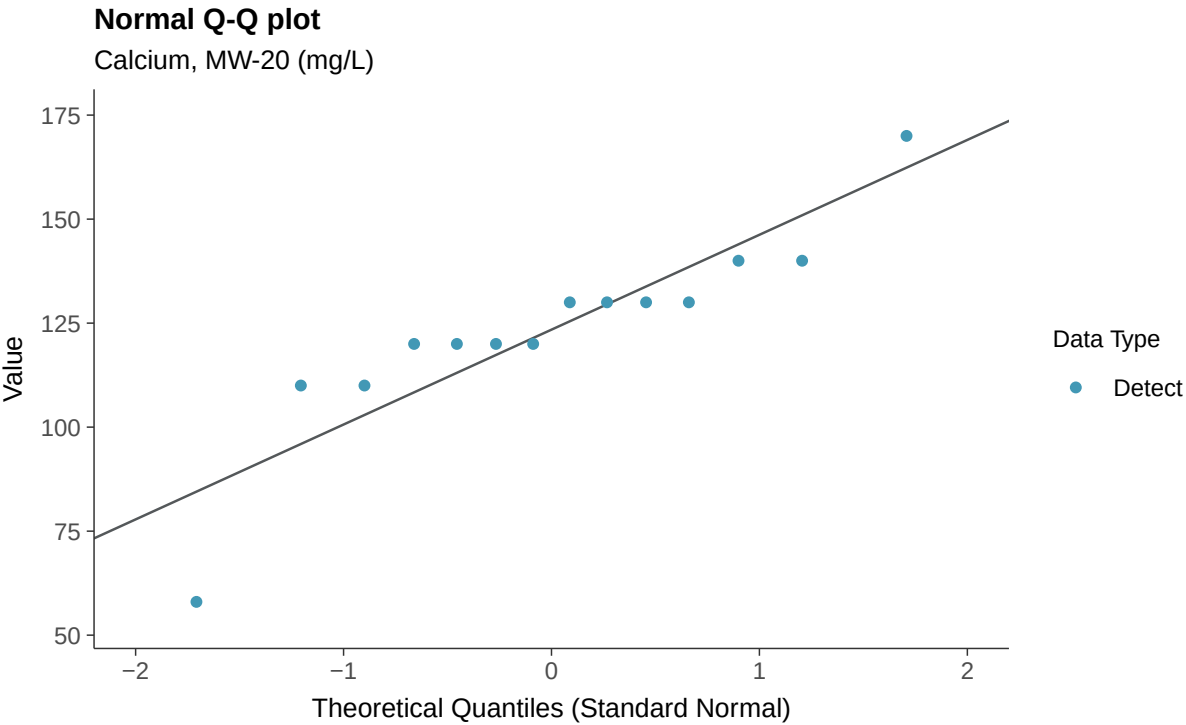


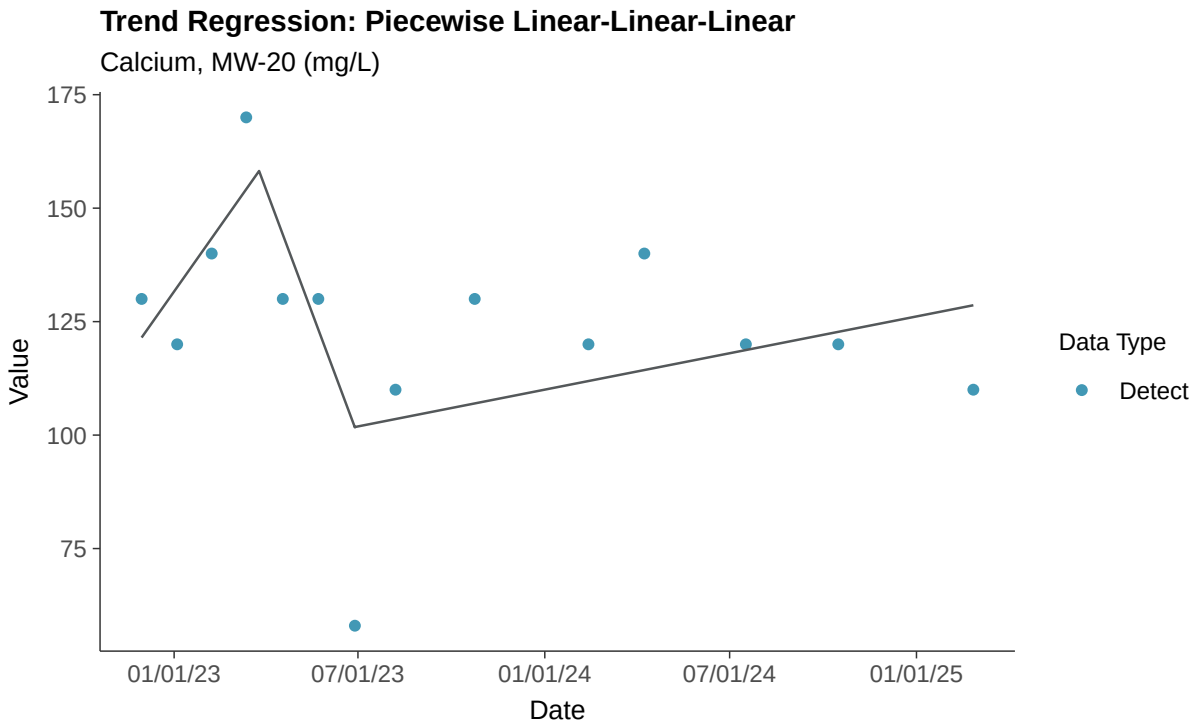
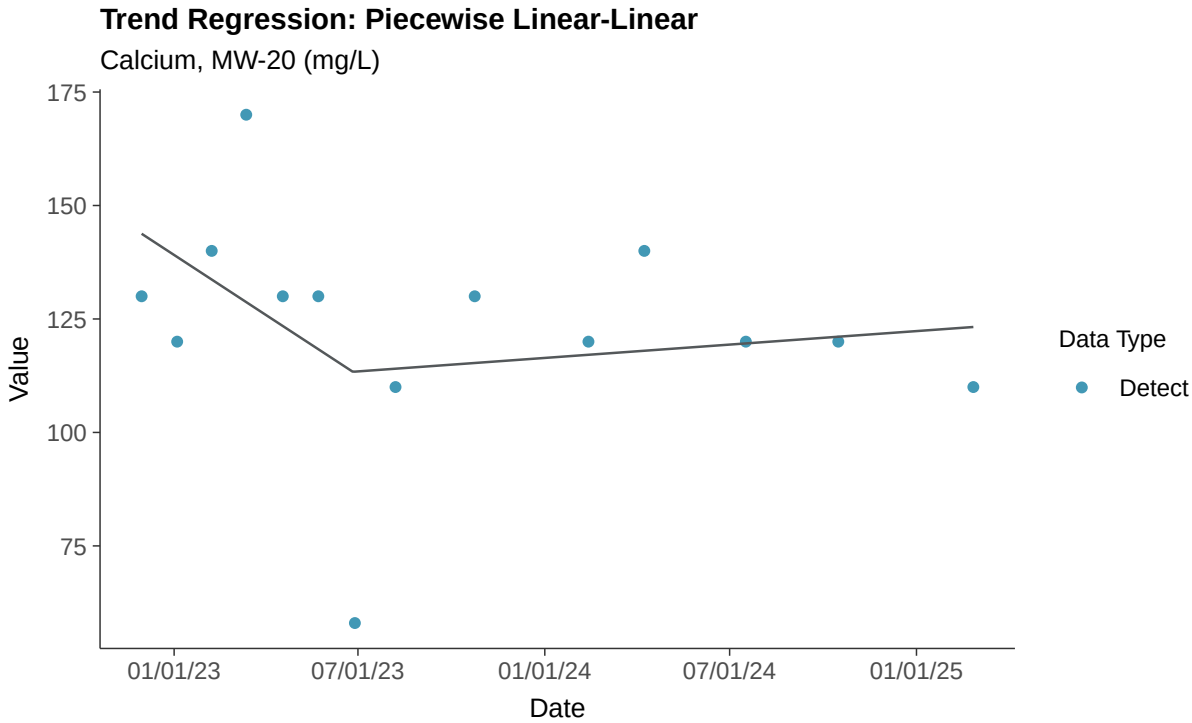
Appendix III: Calcium, MW-20

ID: 30_1_3_107





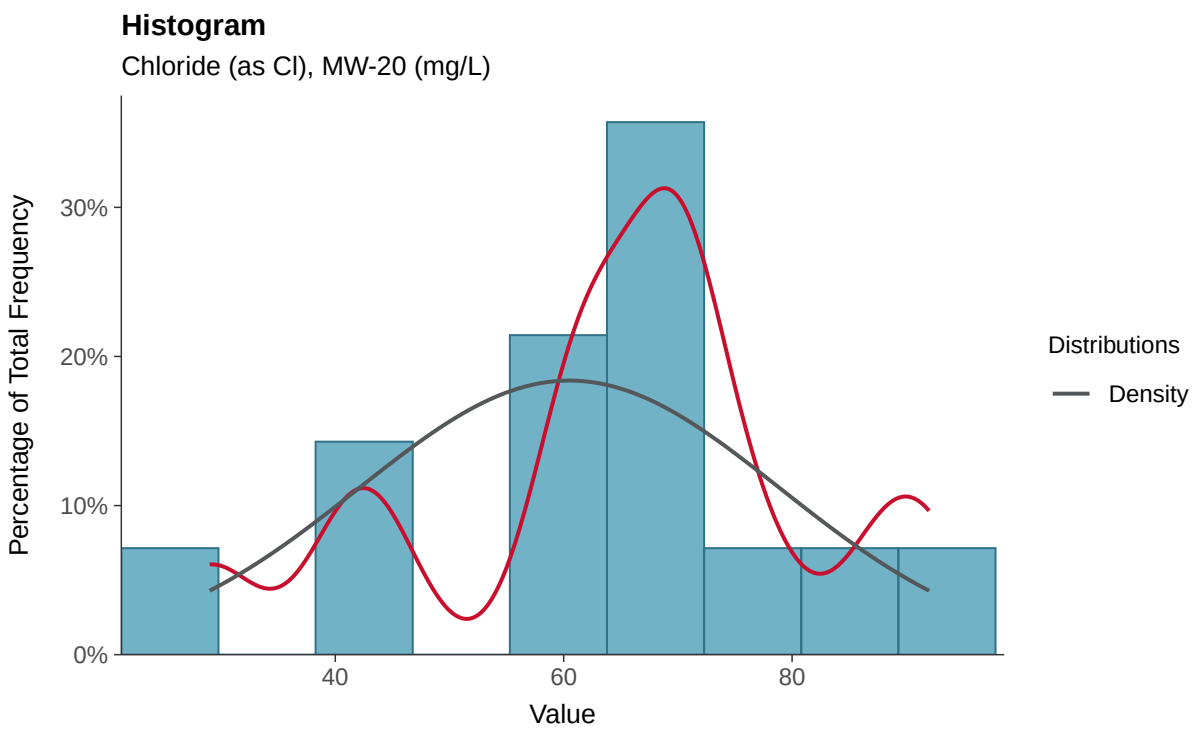
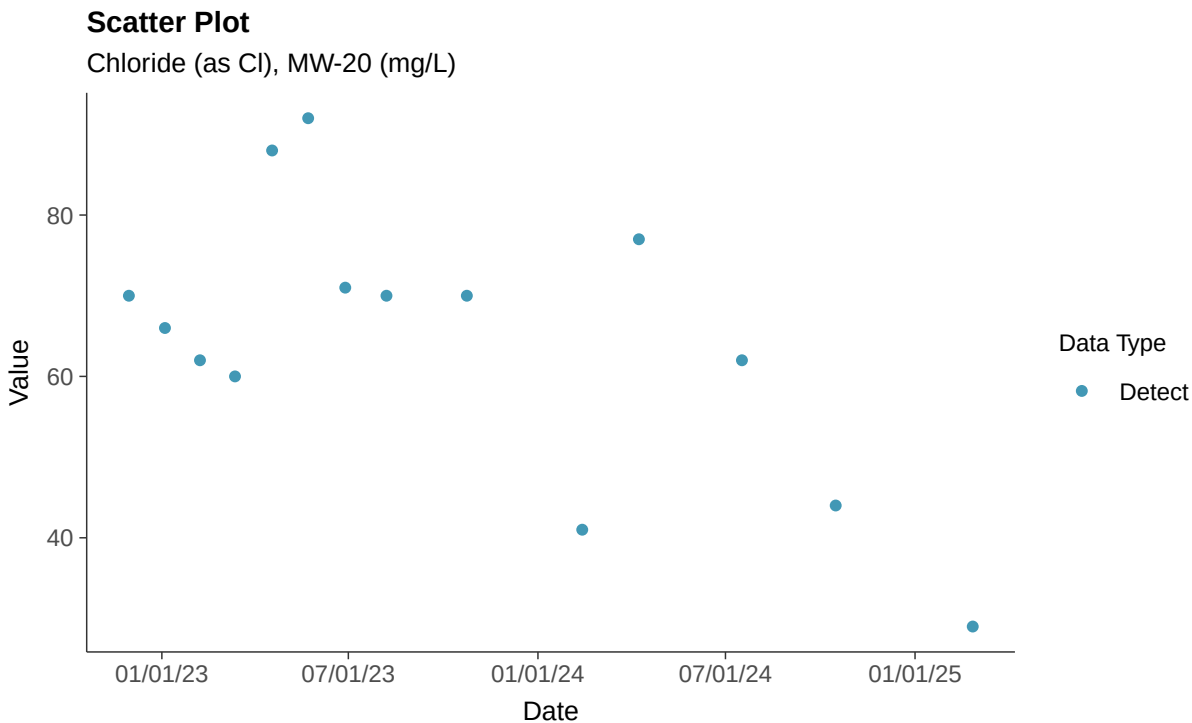


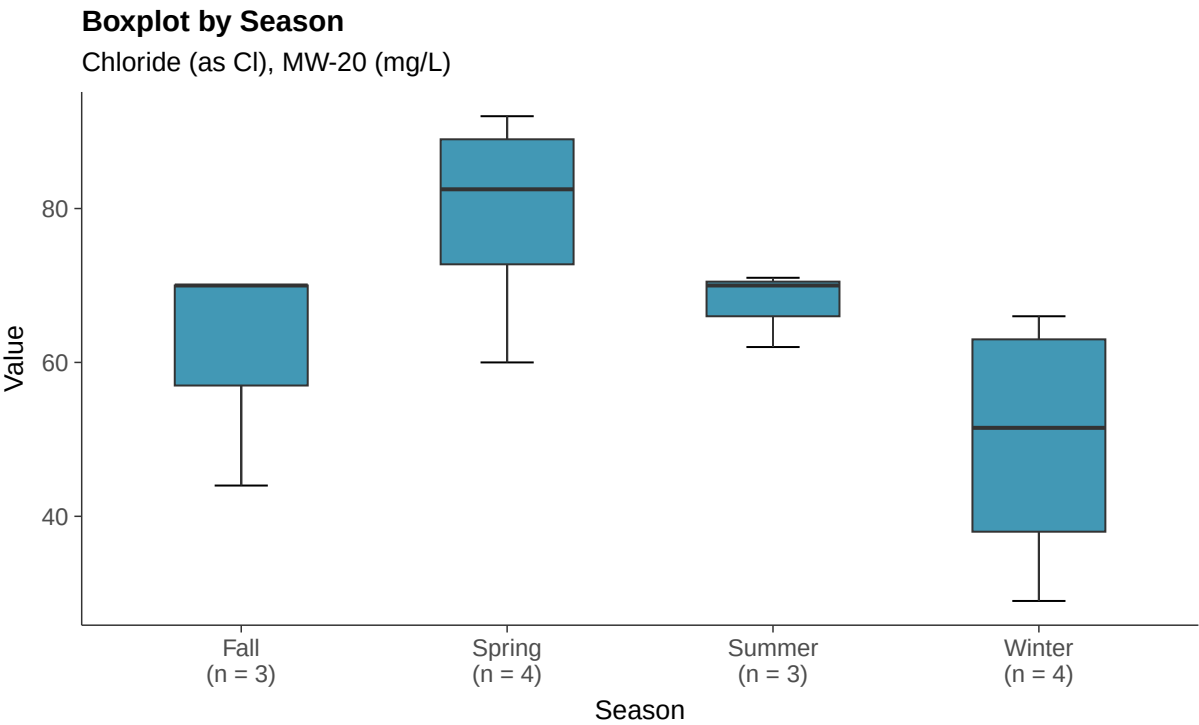
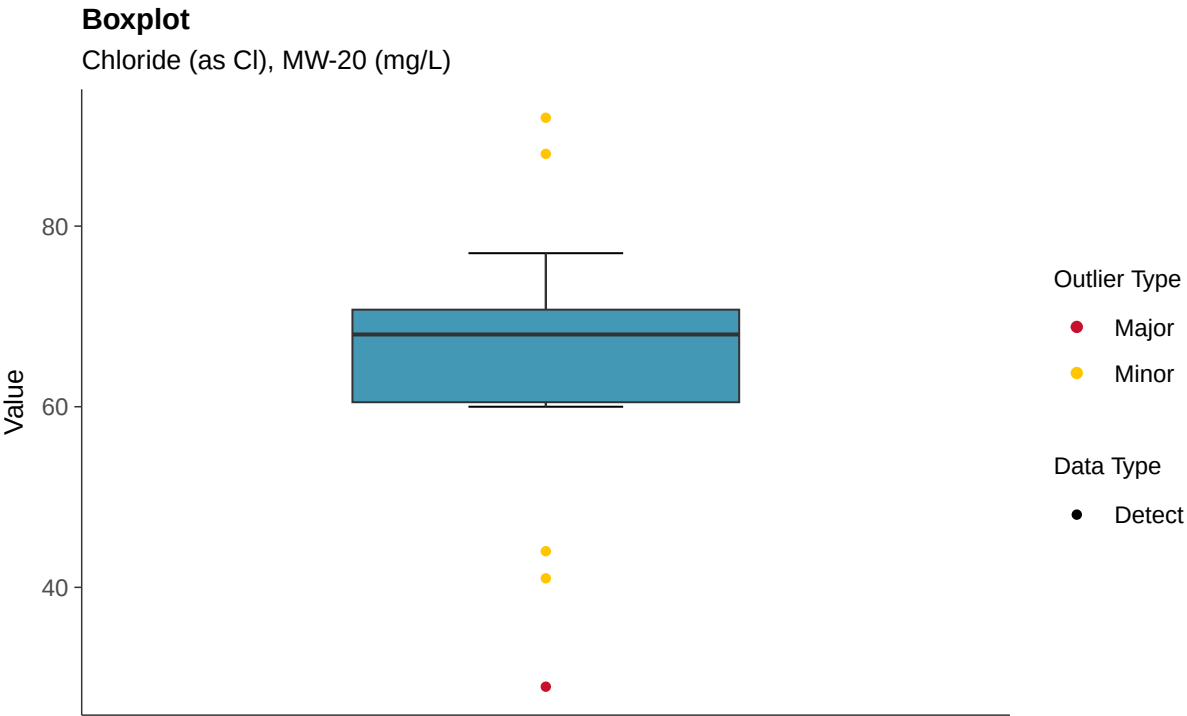


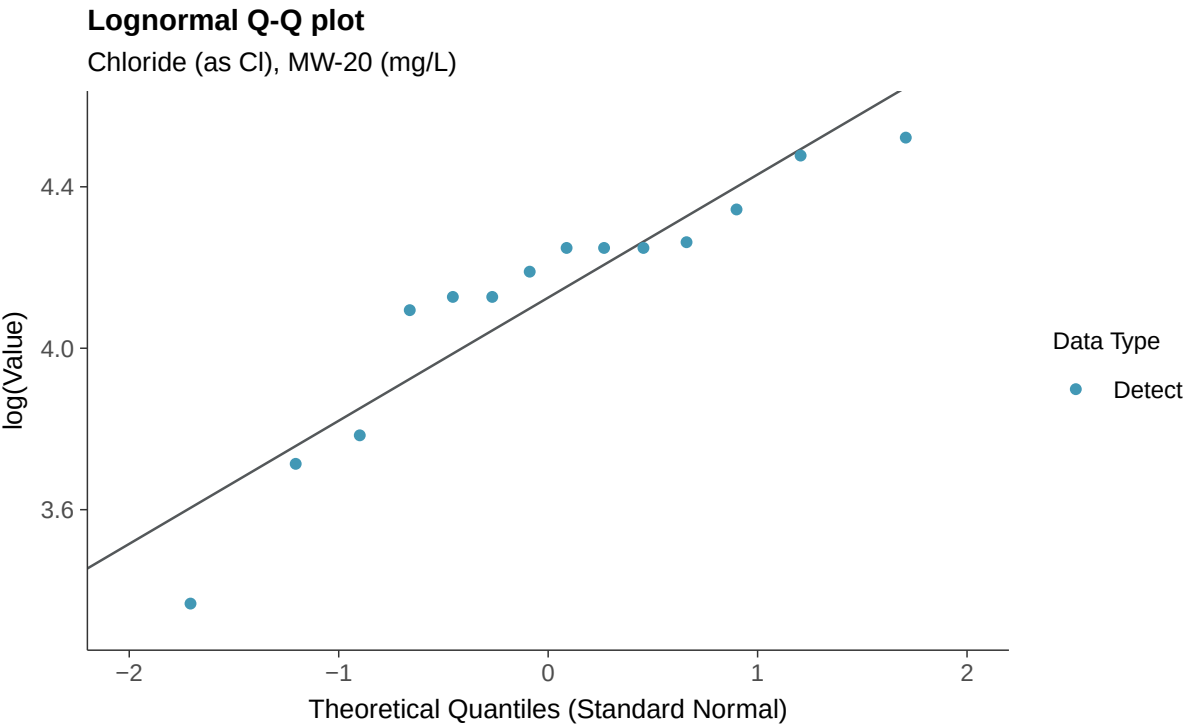
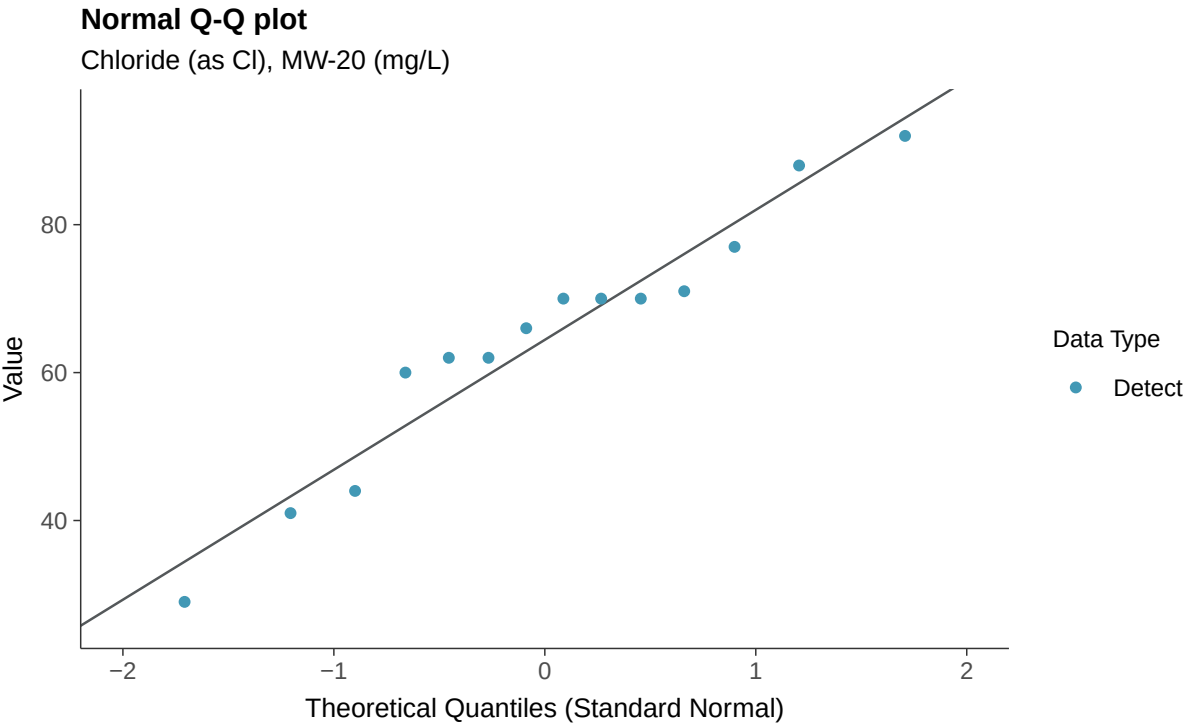


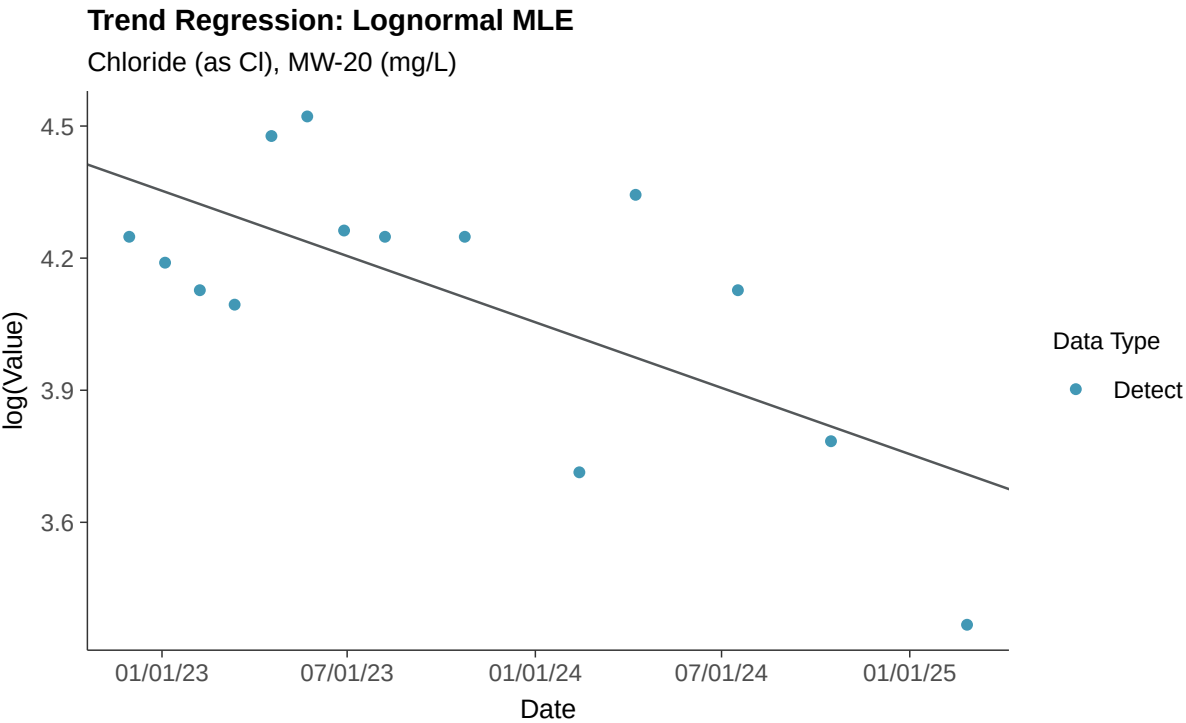
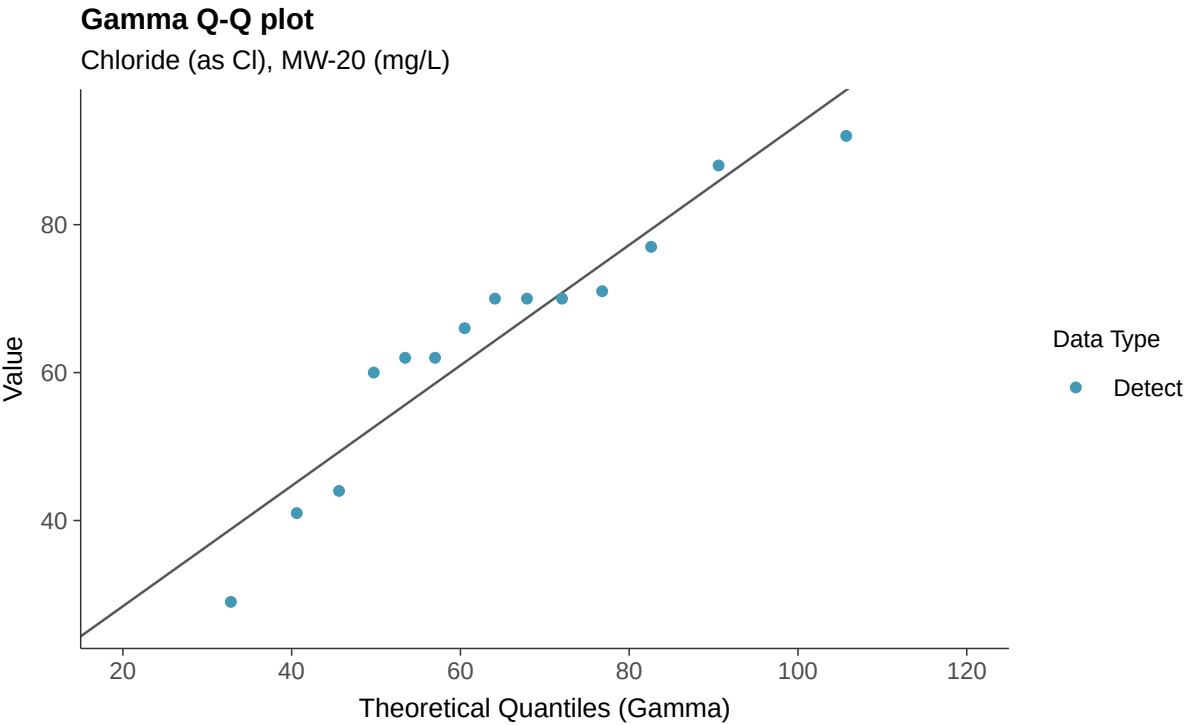
Appendix III: Chloride (as Cl), MW-20

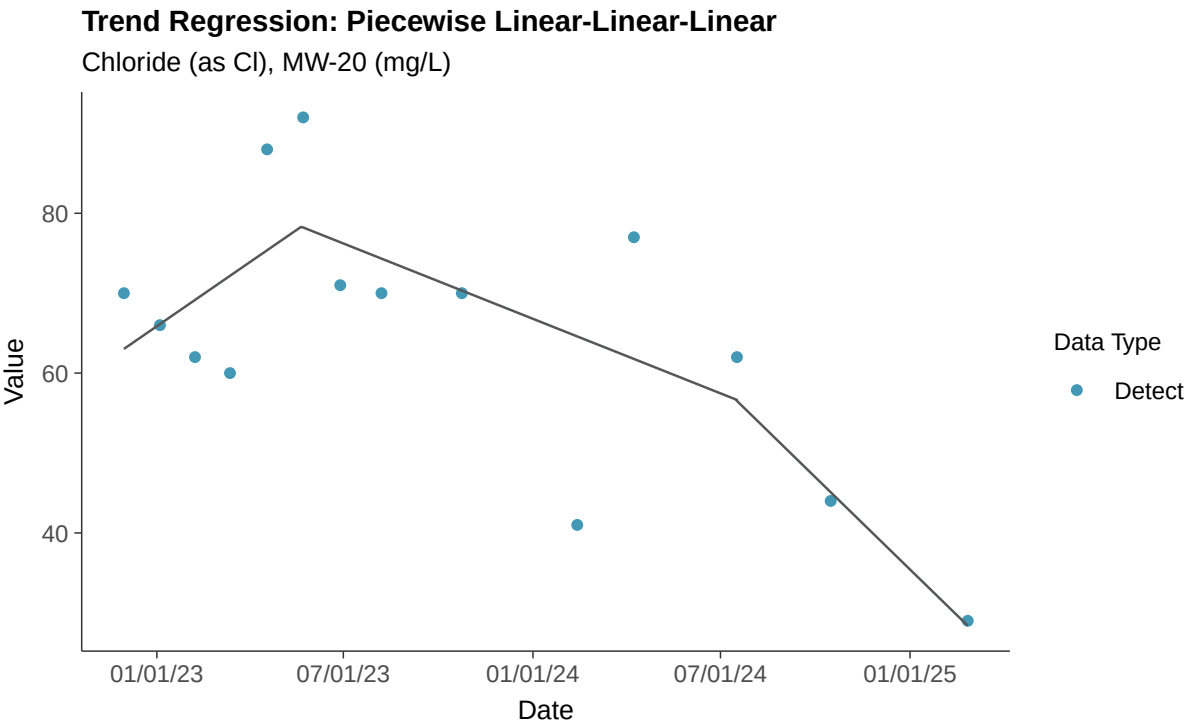
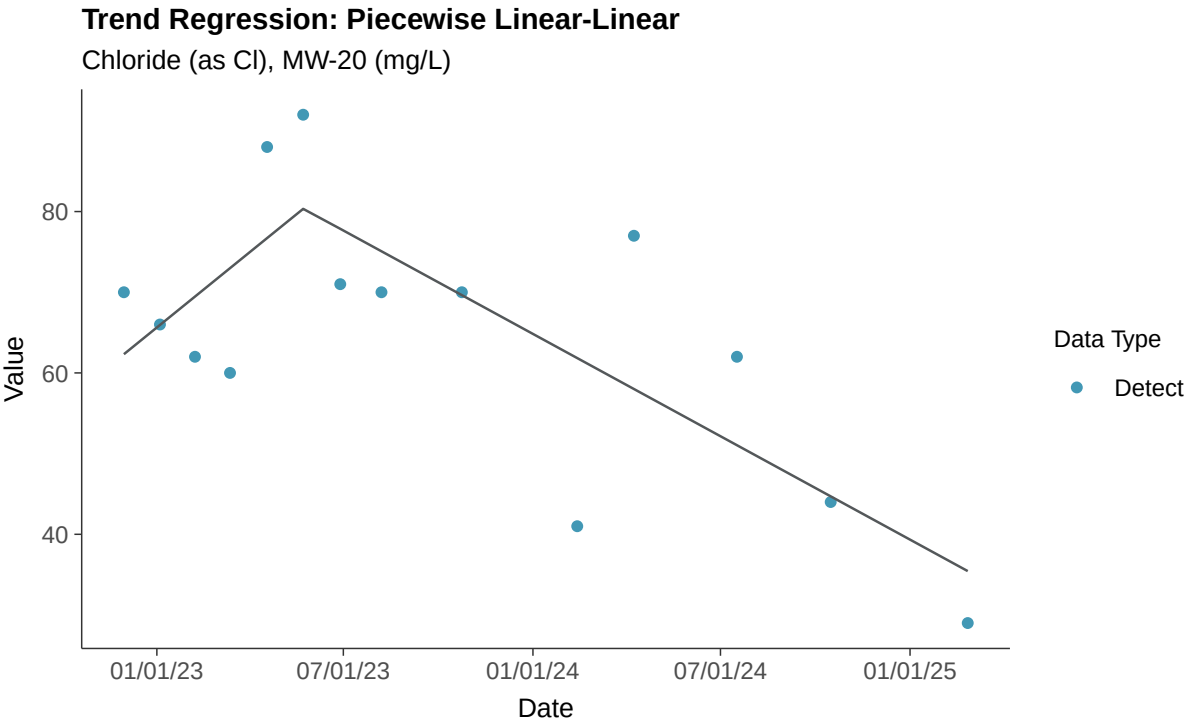
ID: 30_1_3_108







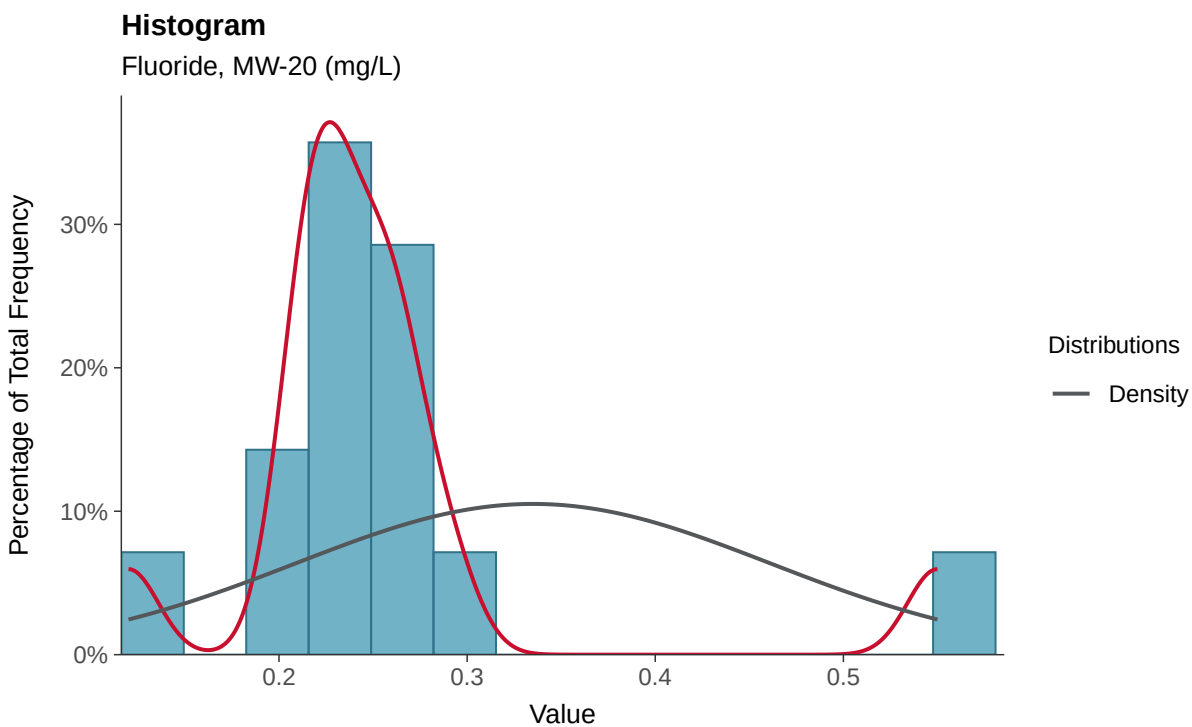
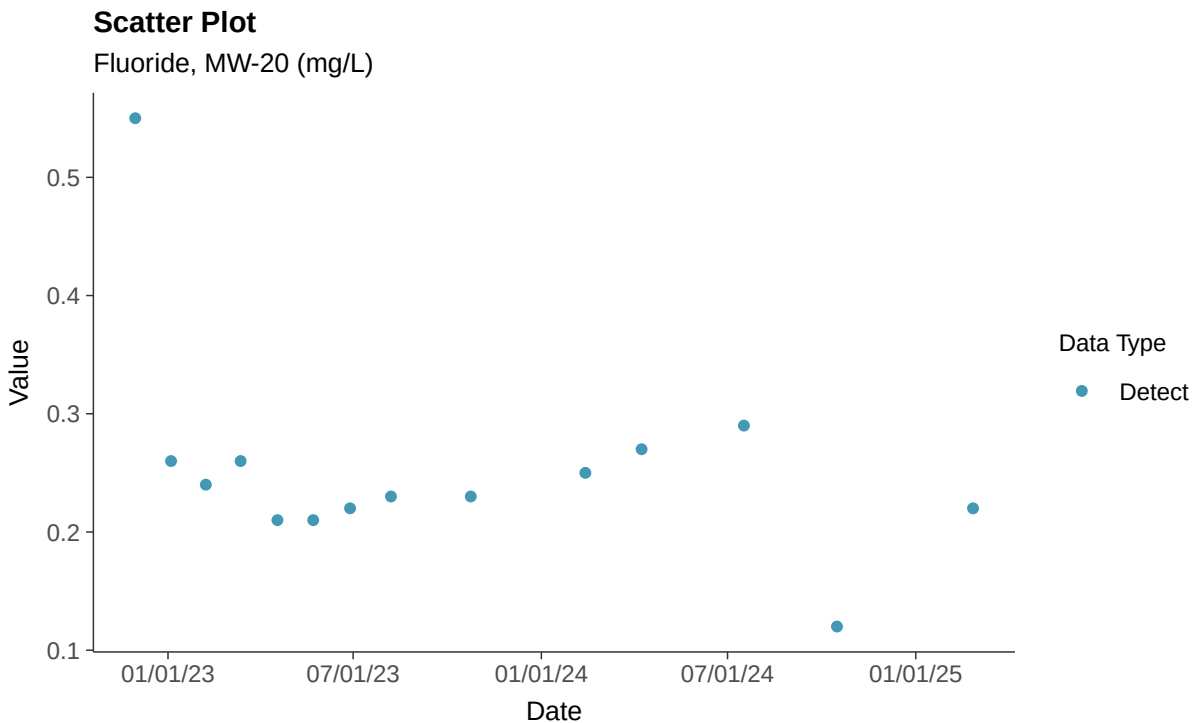


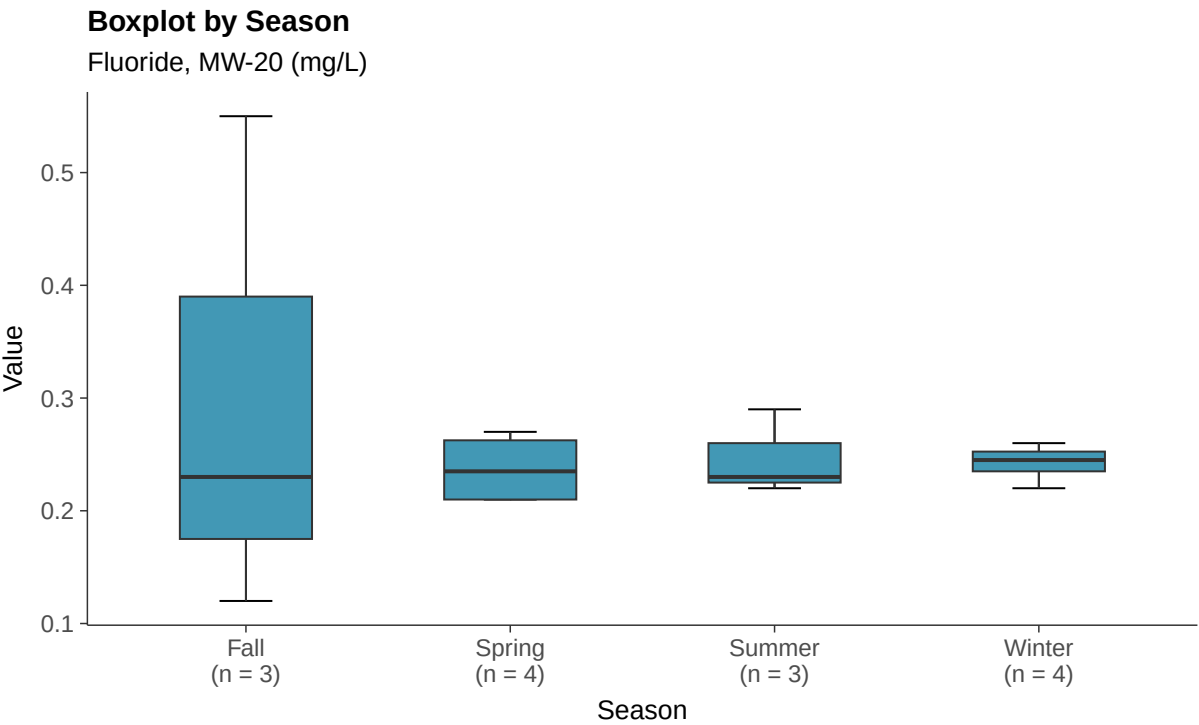
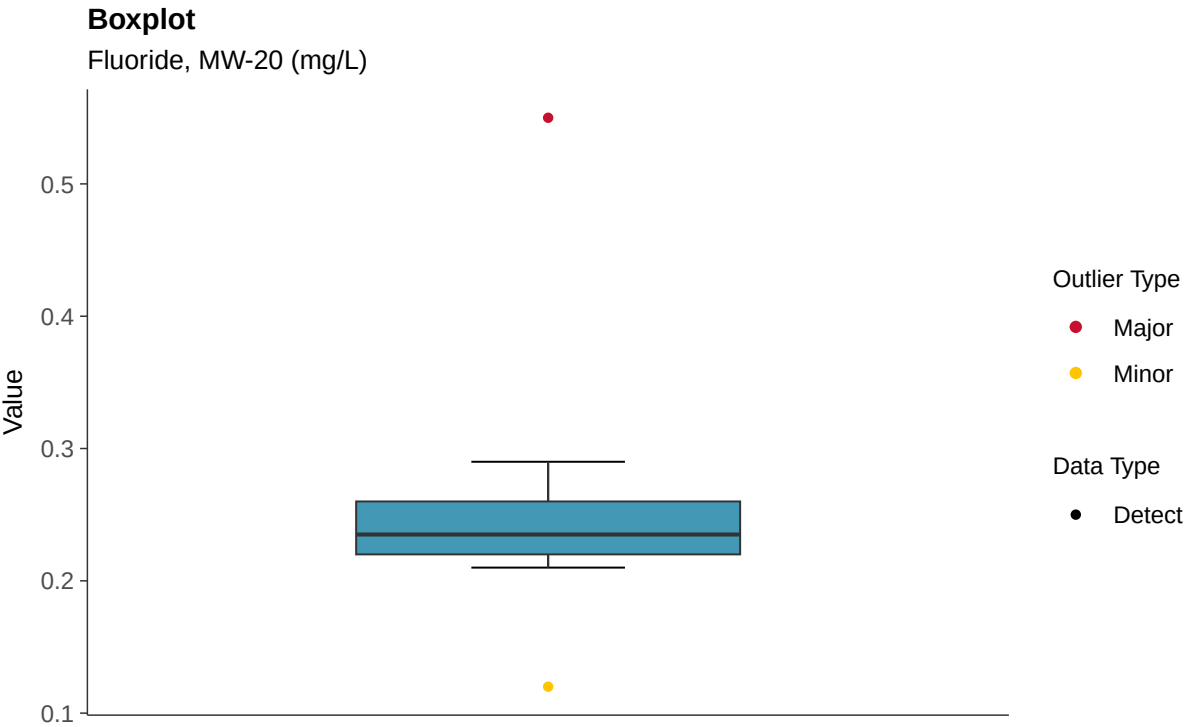


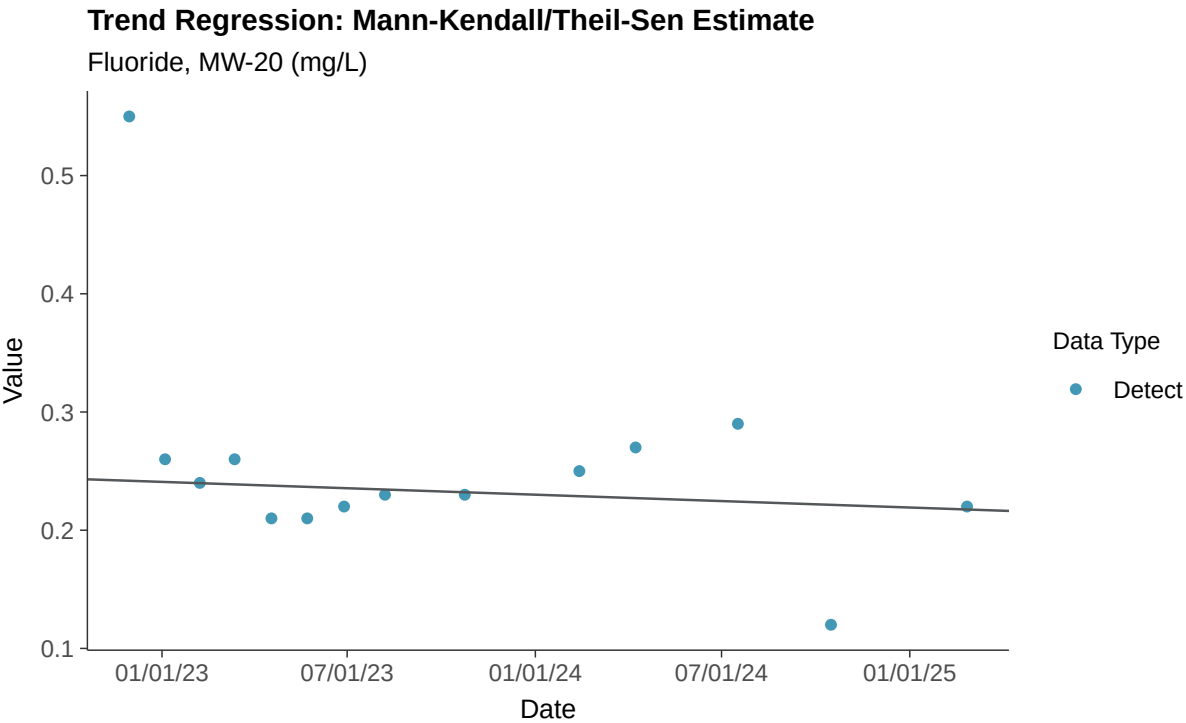
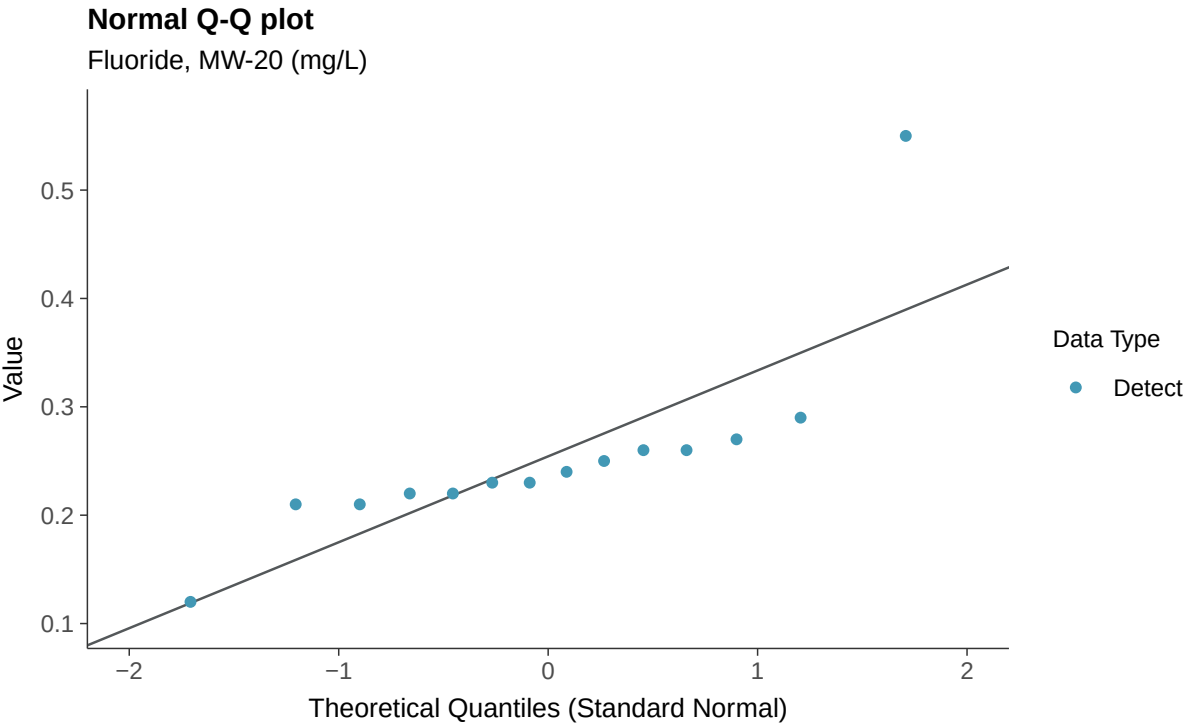


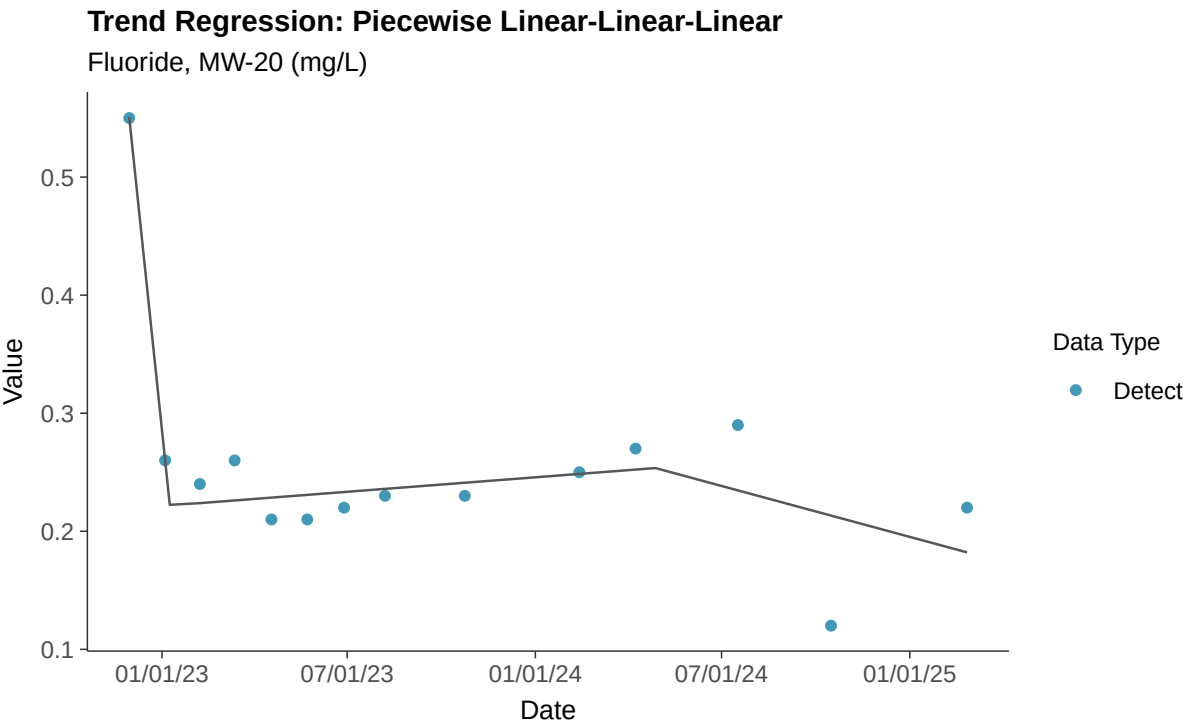
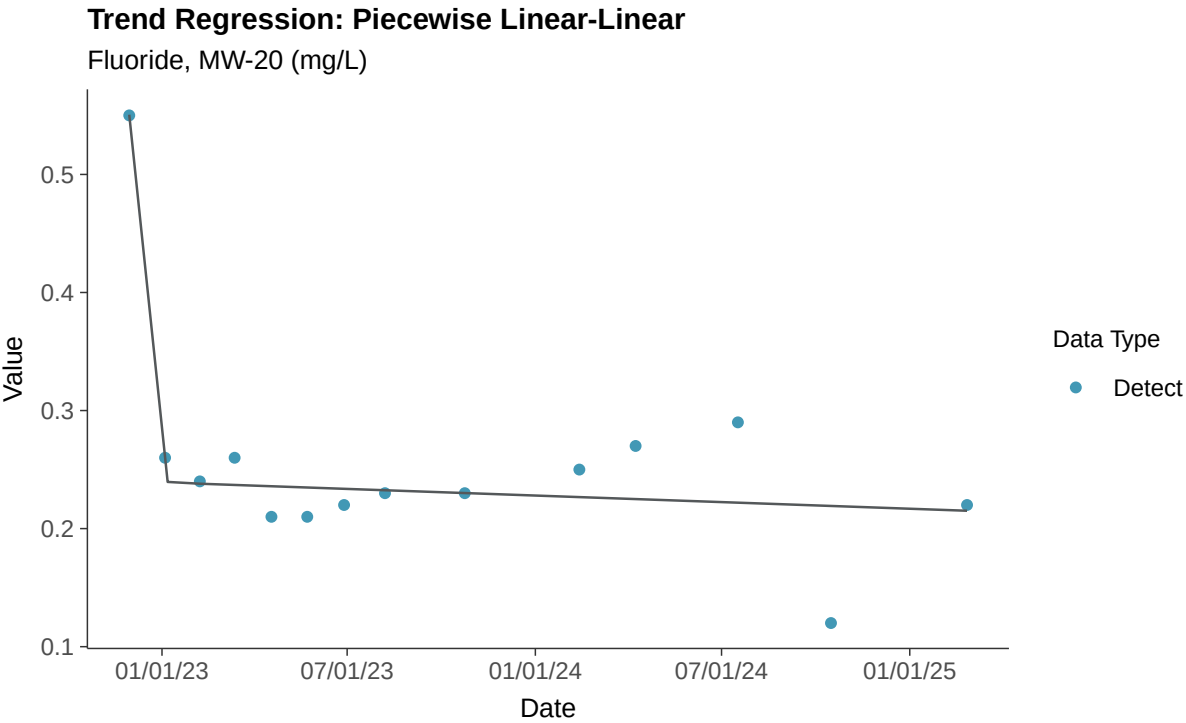
Appendix III: Fluoride, MW-20

ID: 30_1_3_112





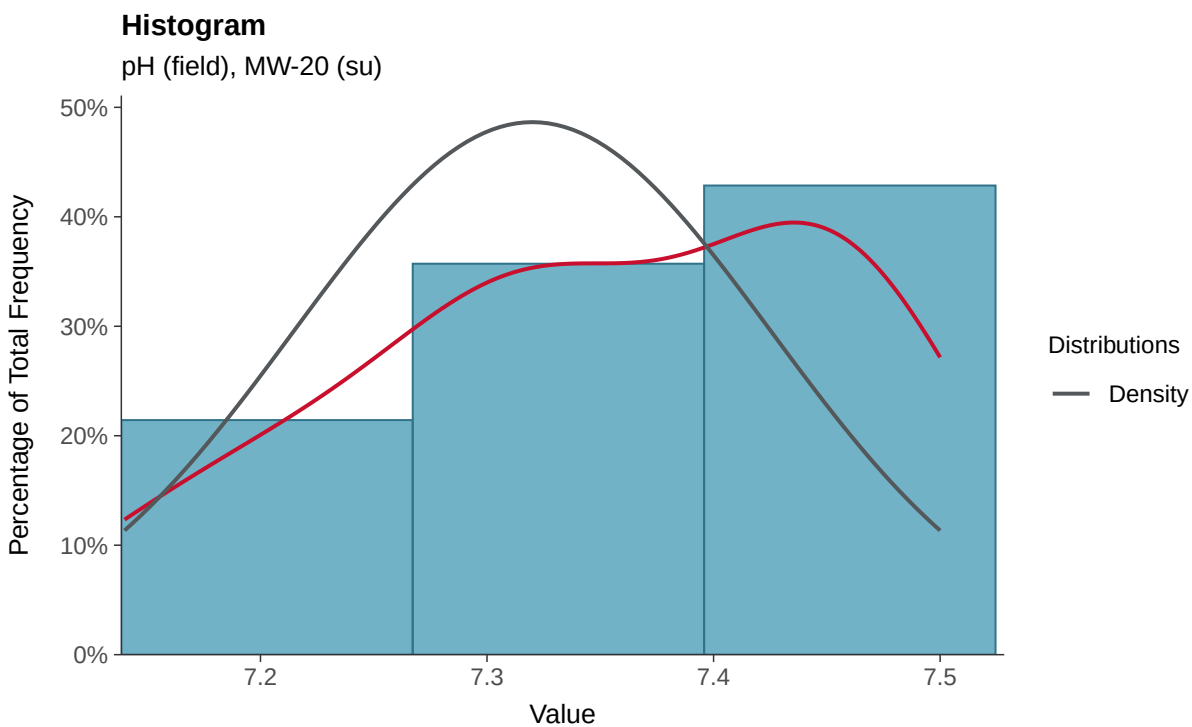
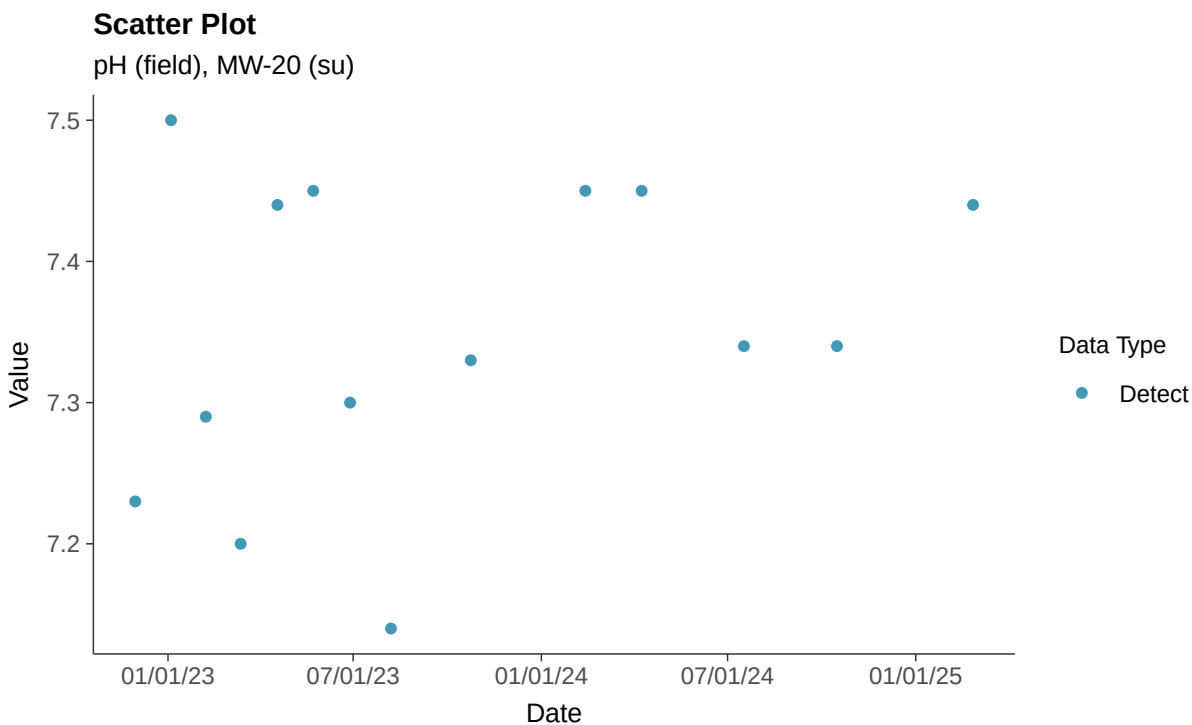


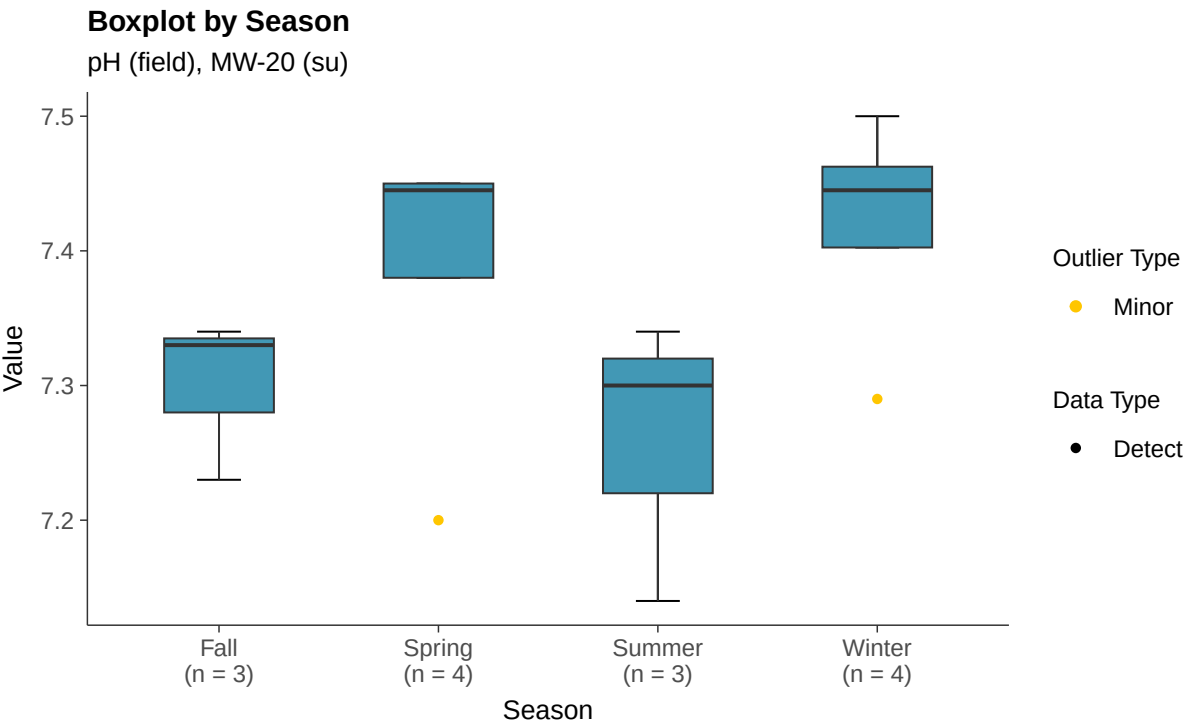
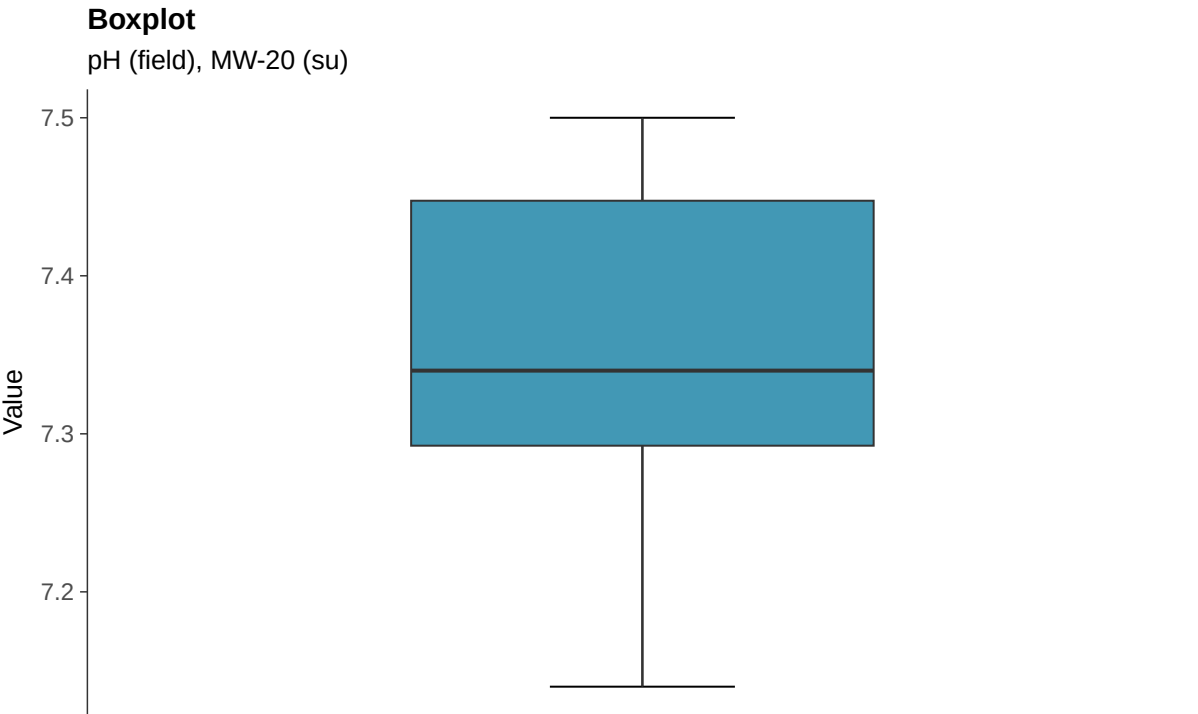


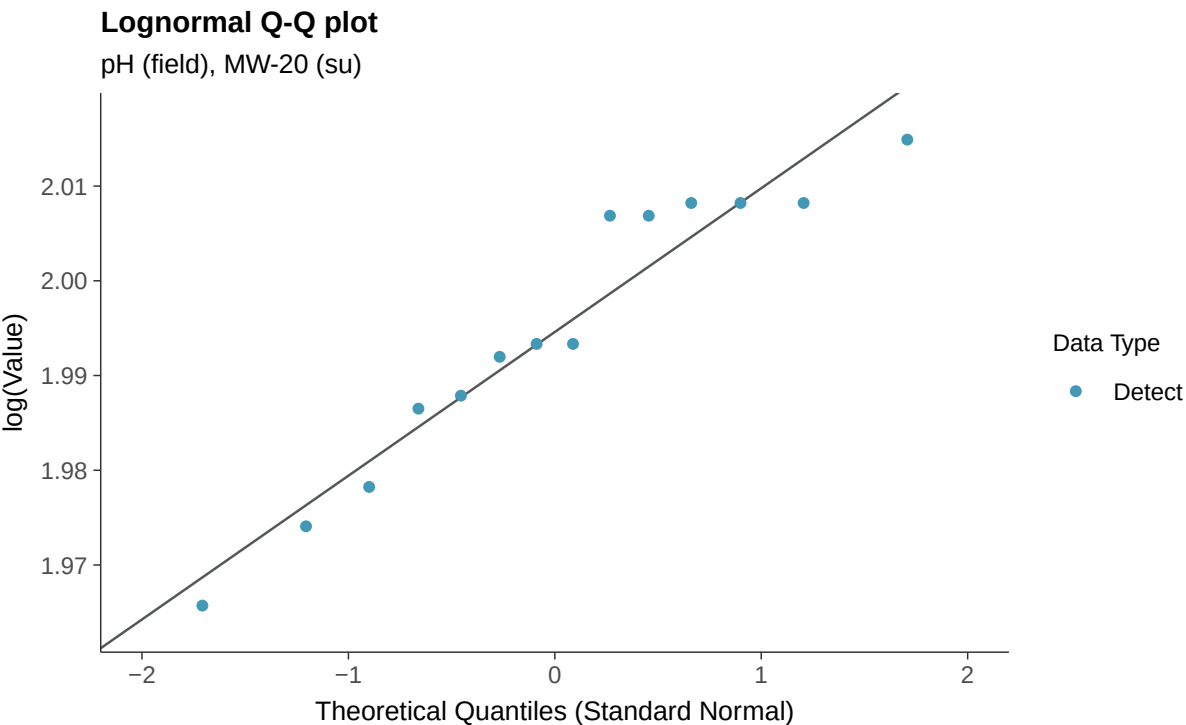
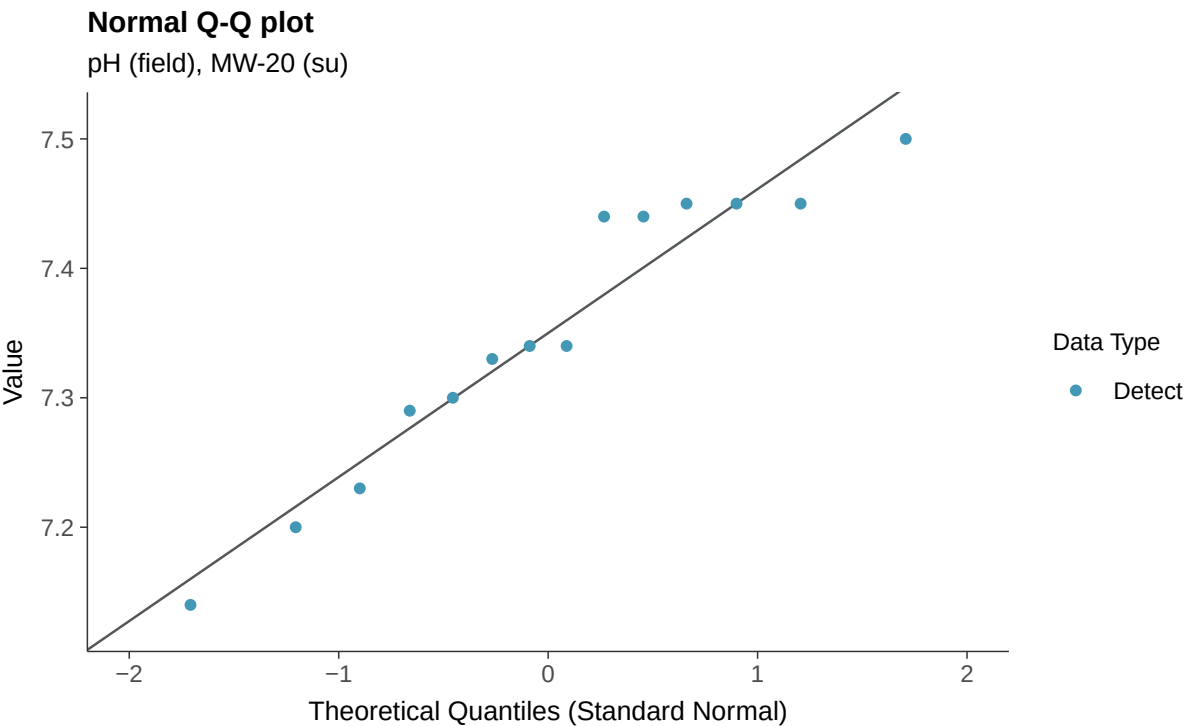


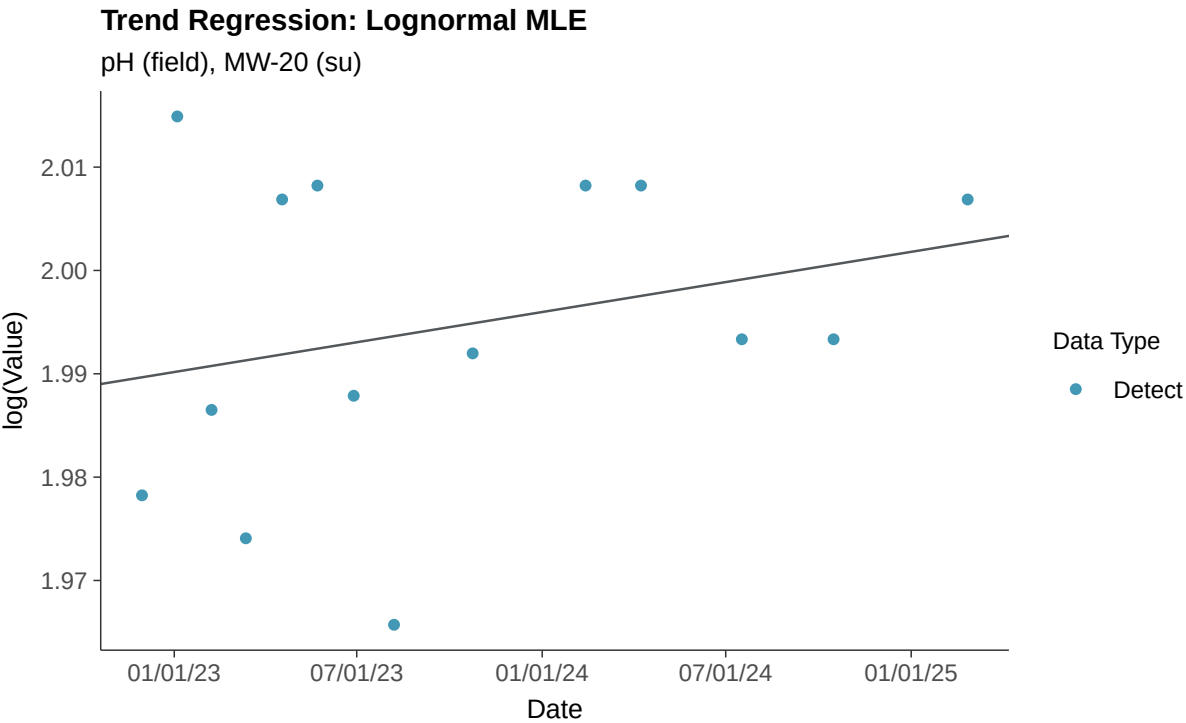
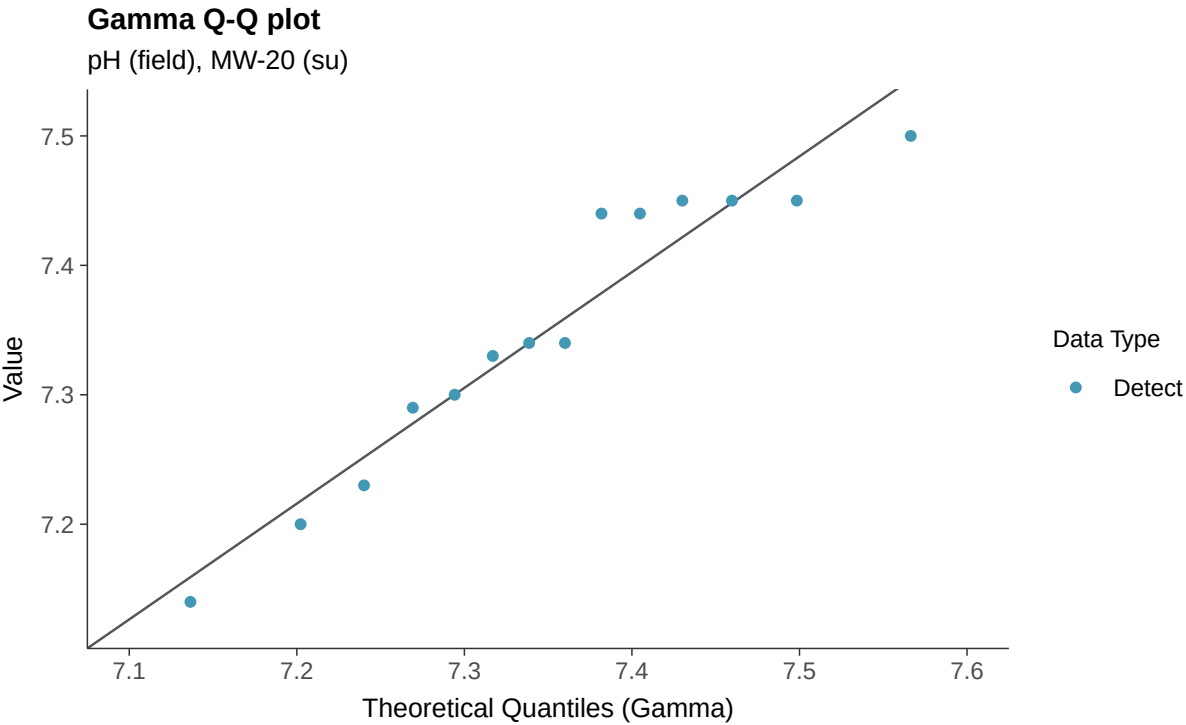
Appendix III: pH (field), MW-20

ID: 30_1_3_120





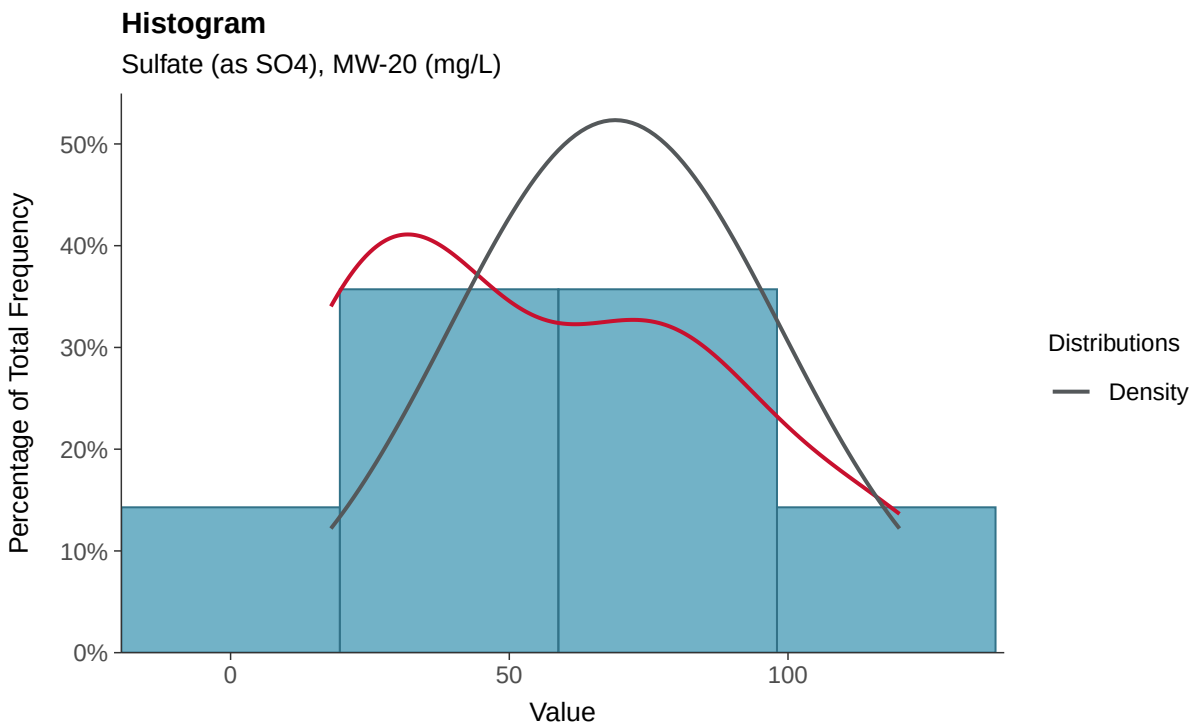
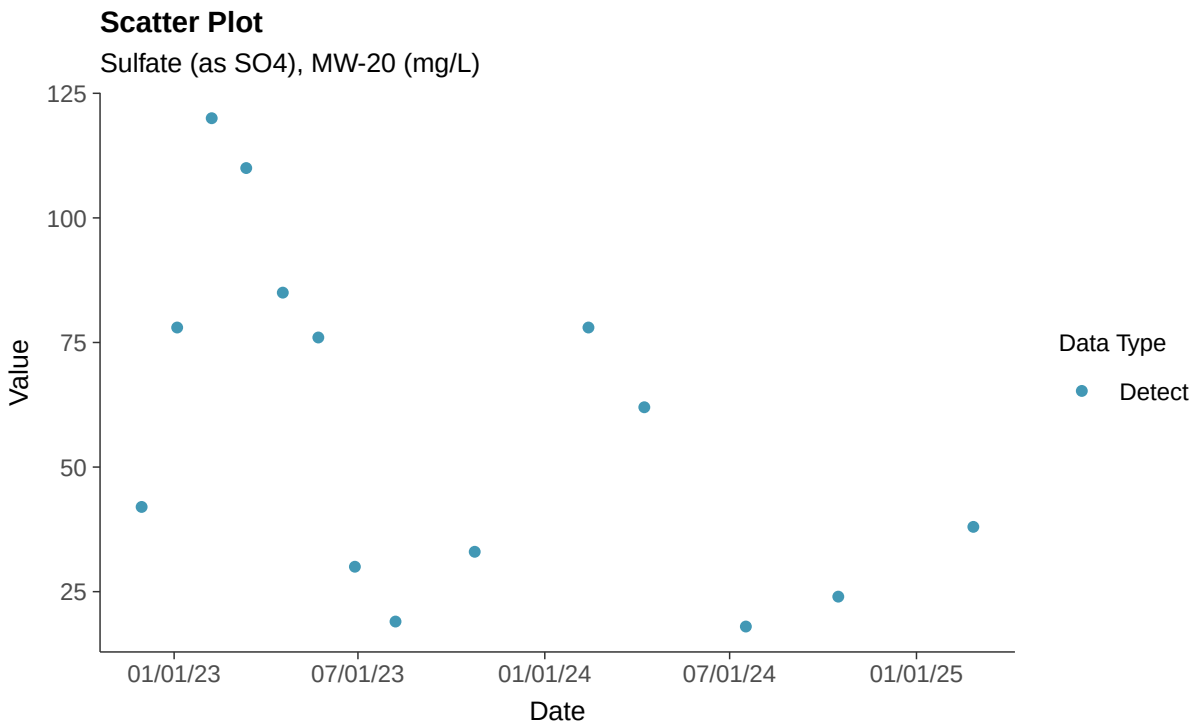


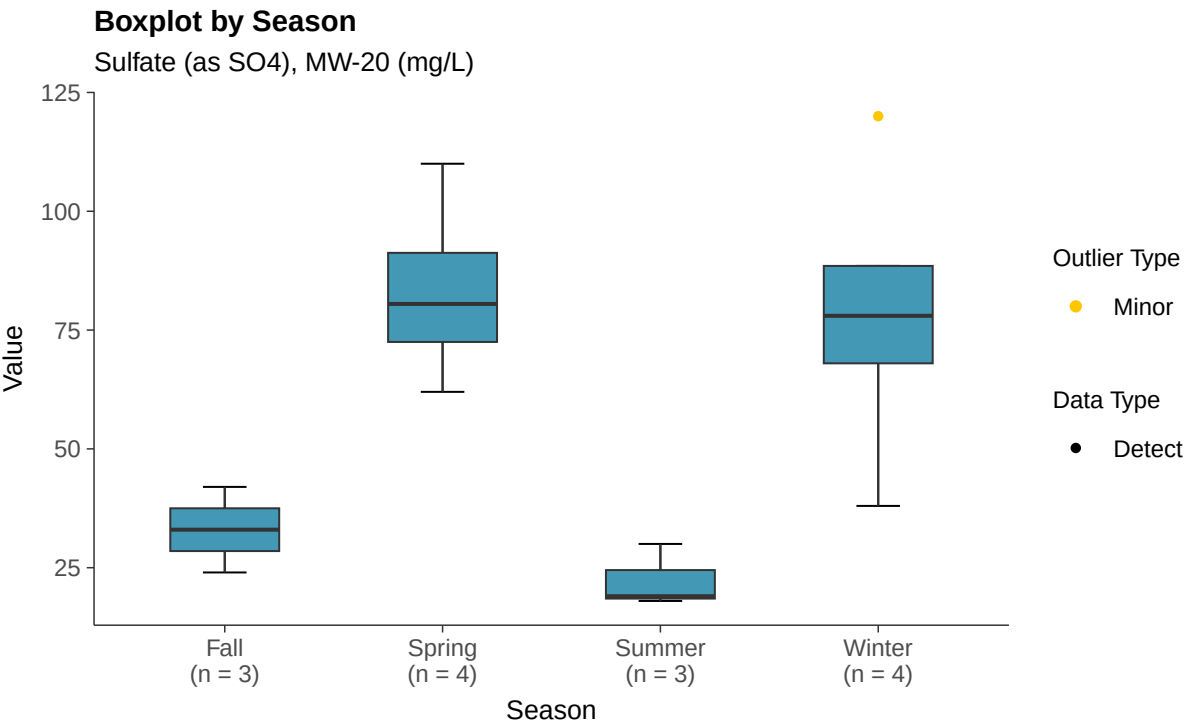
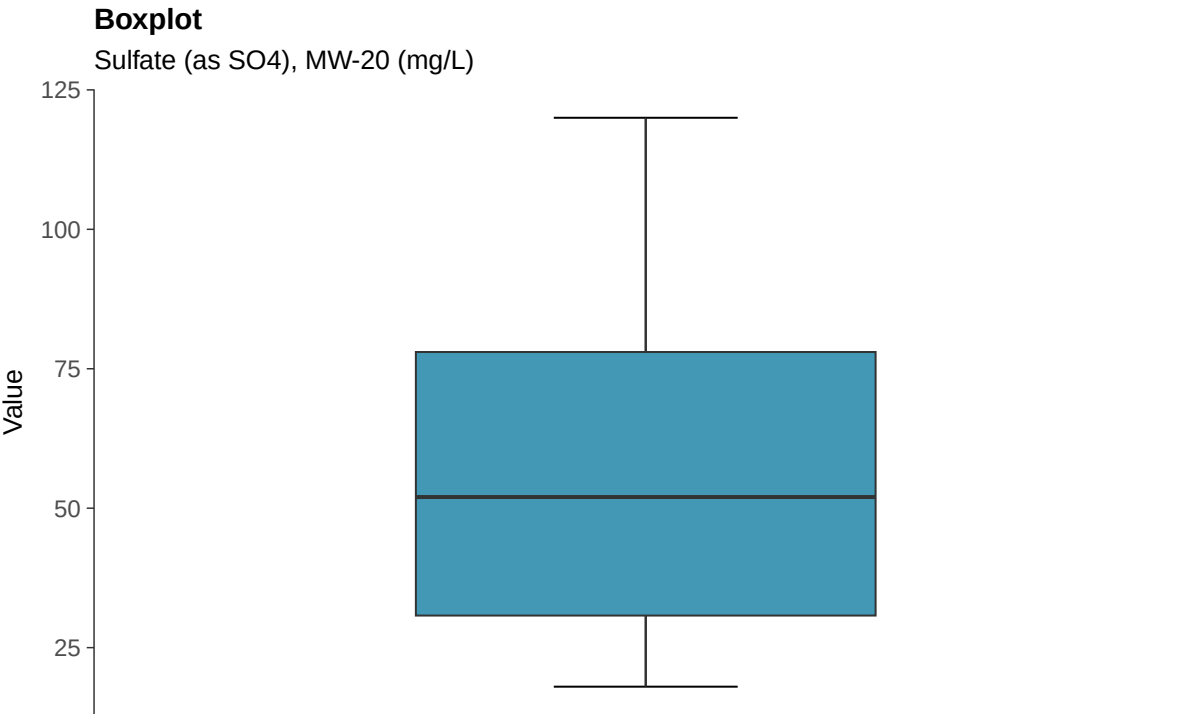


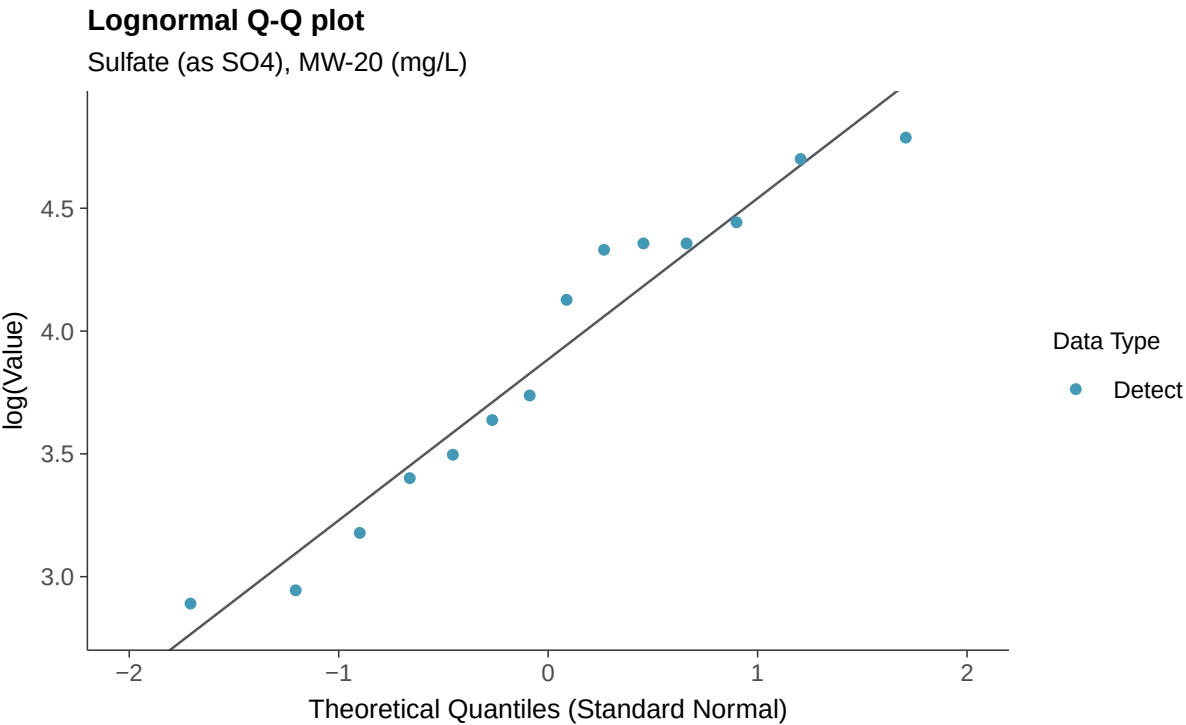
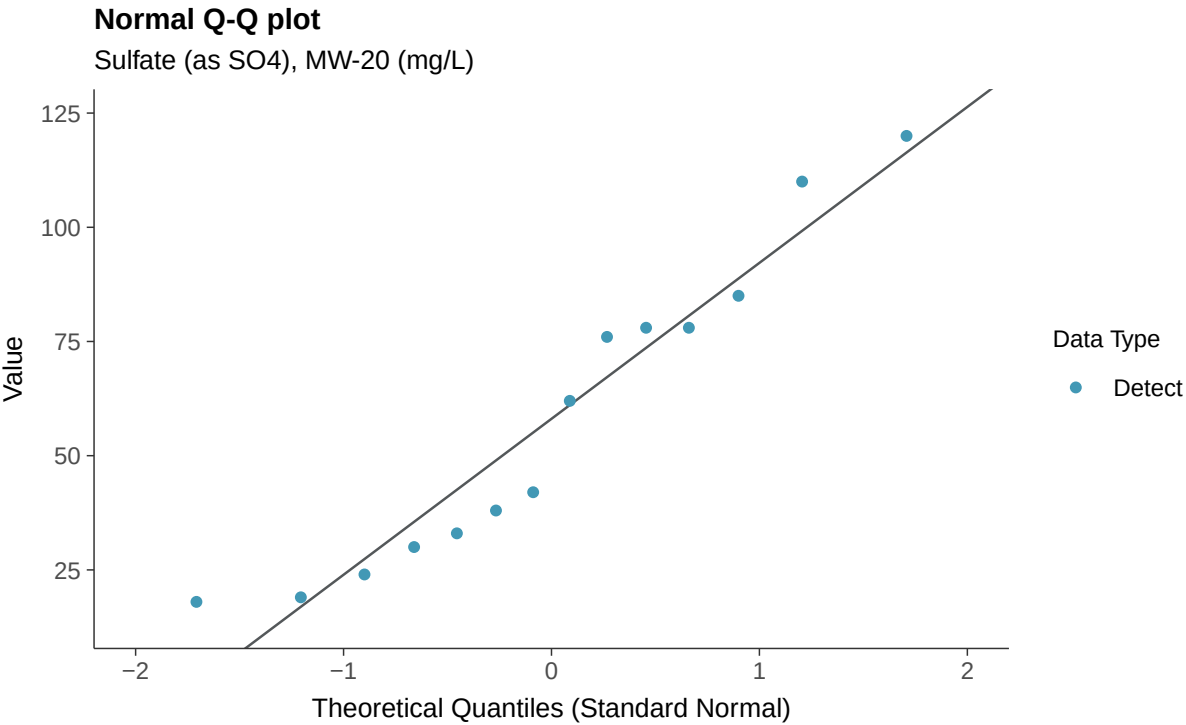


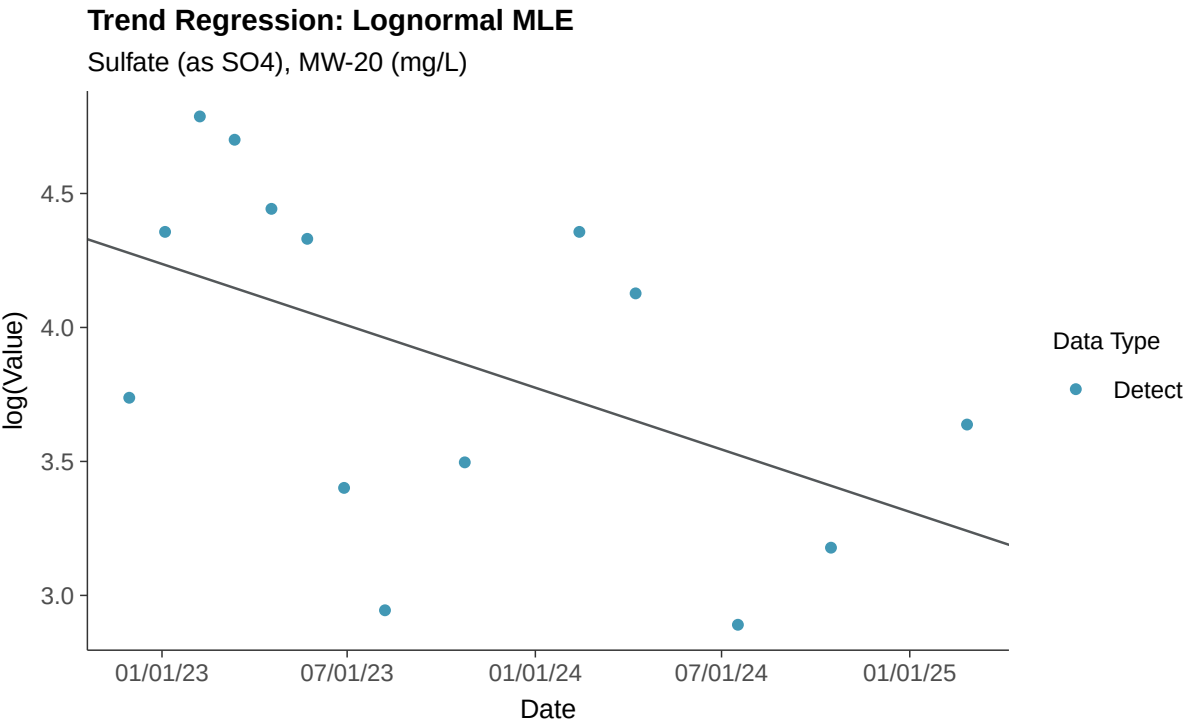
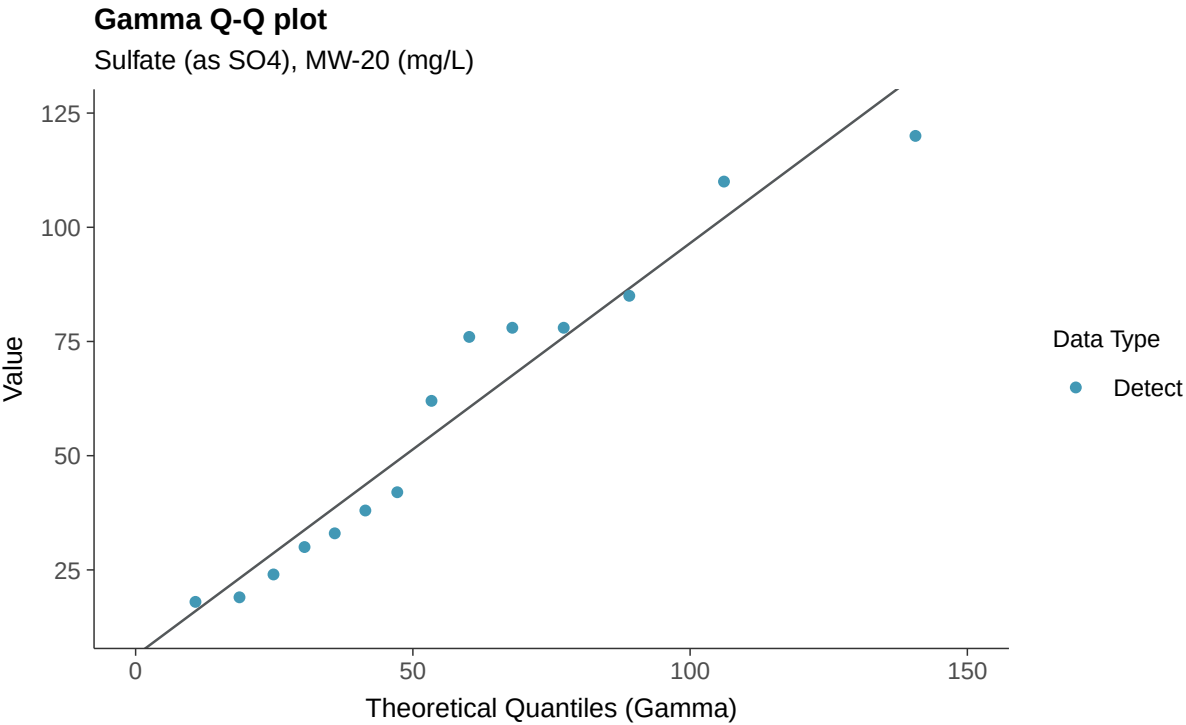
Appendix III: Sulfate (as SO₄), MW-20

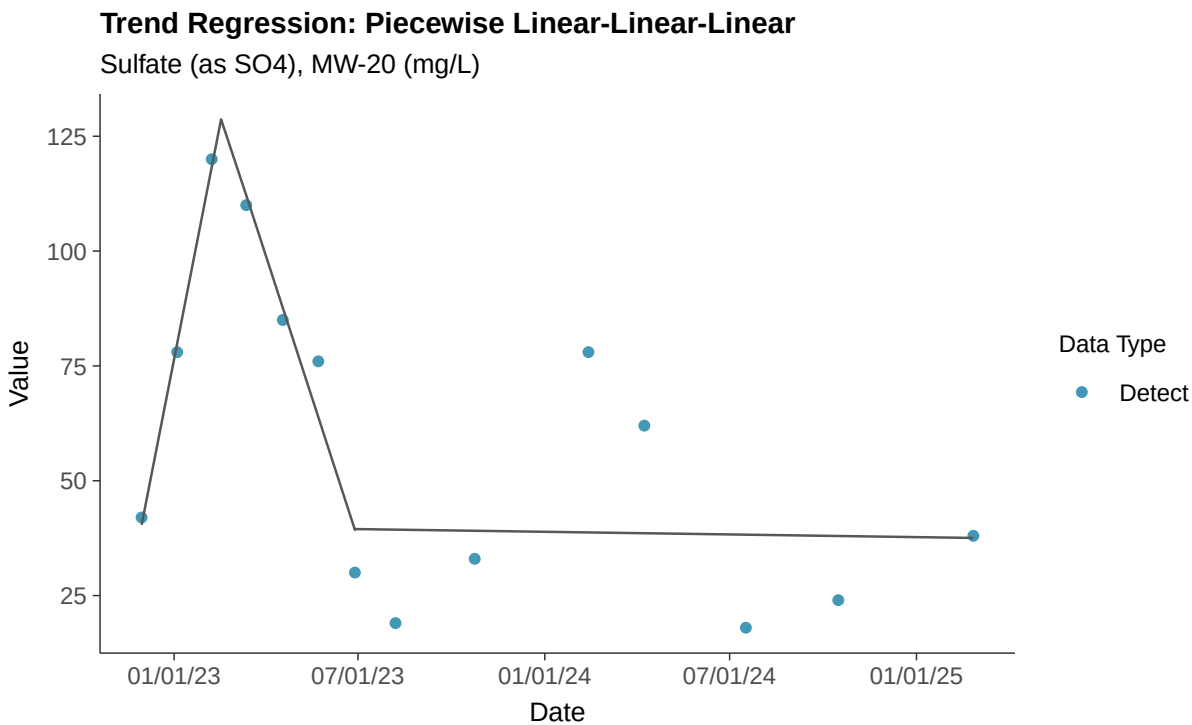
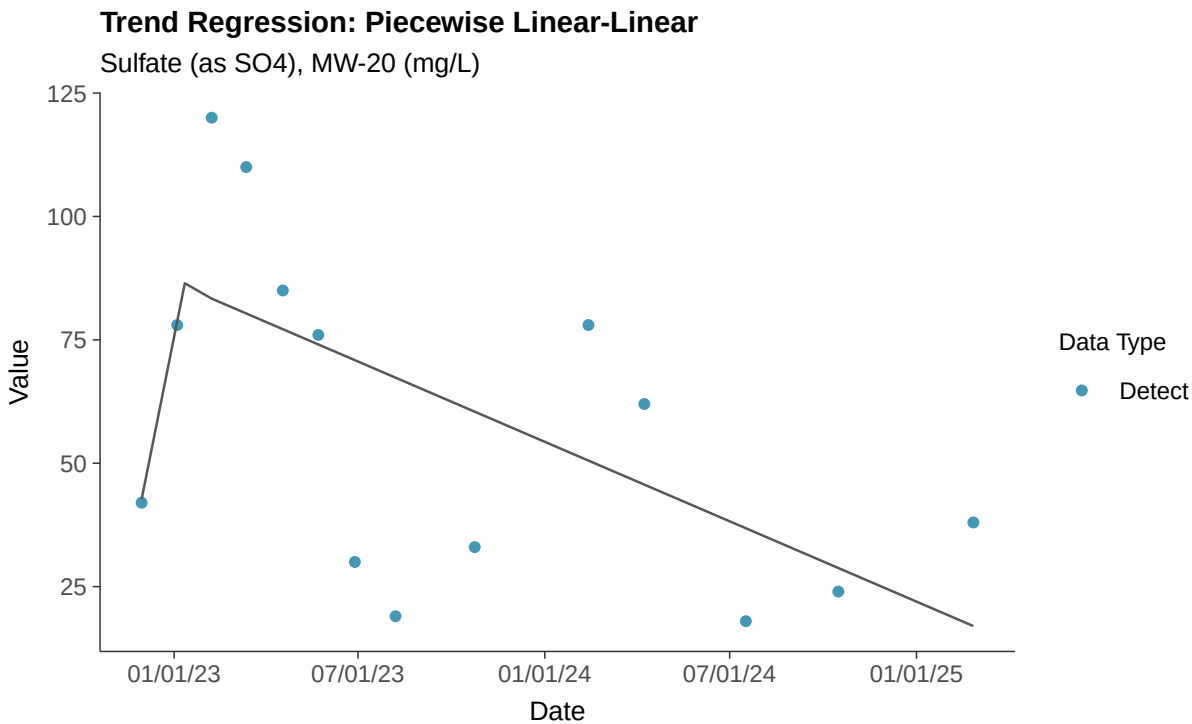
ID: 30_1_3_124







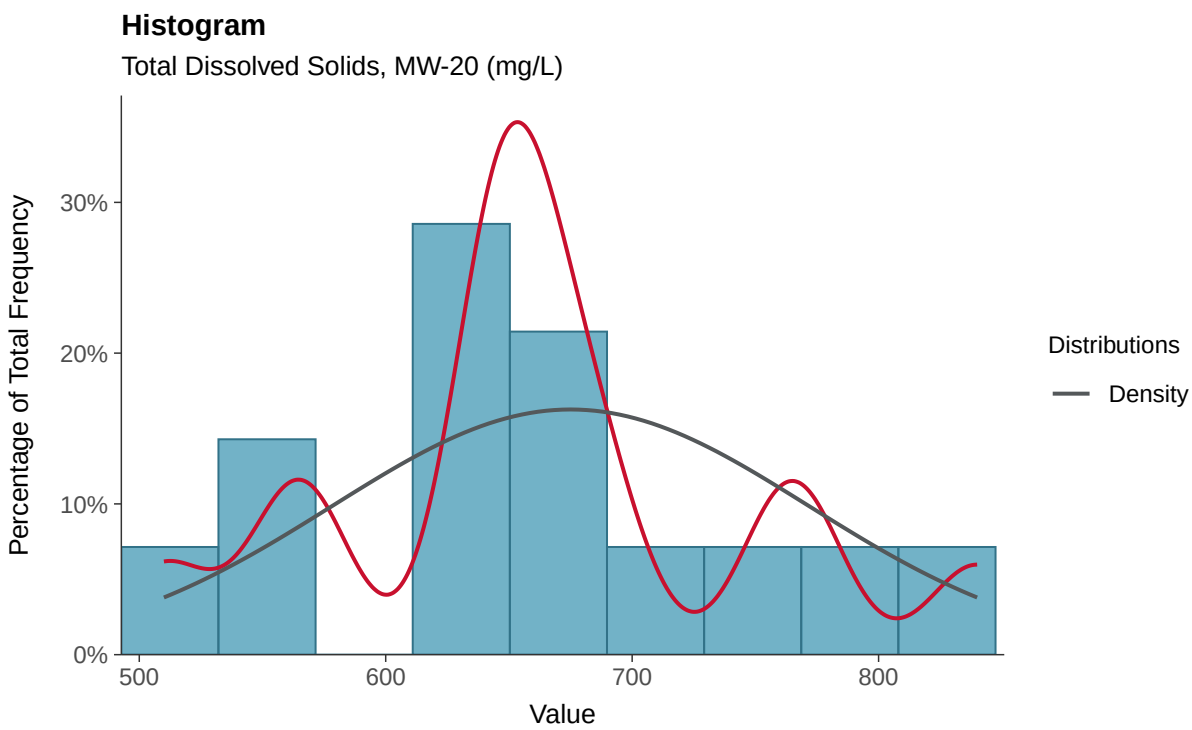
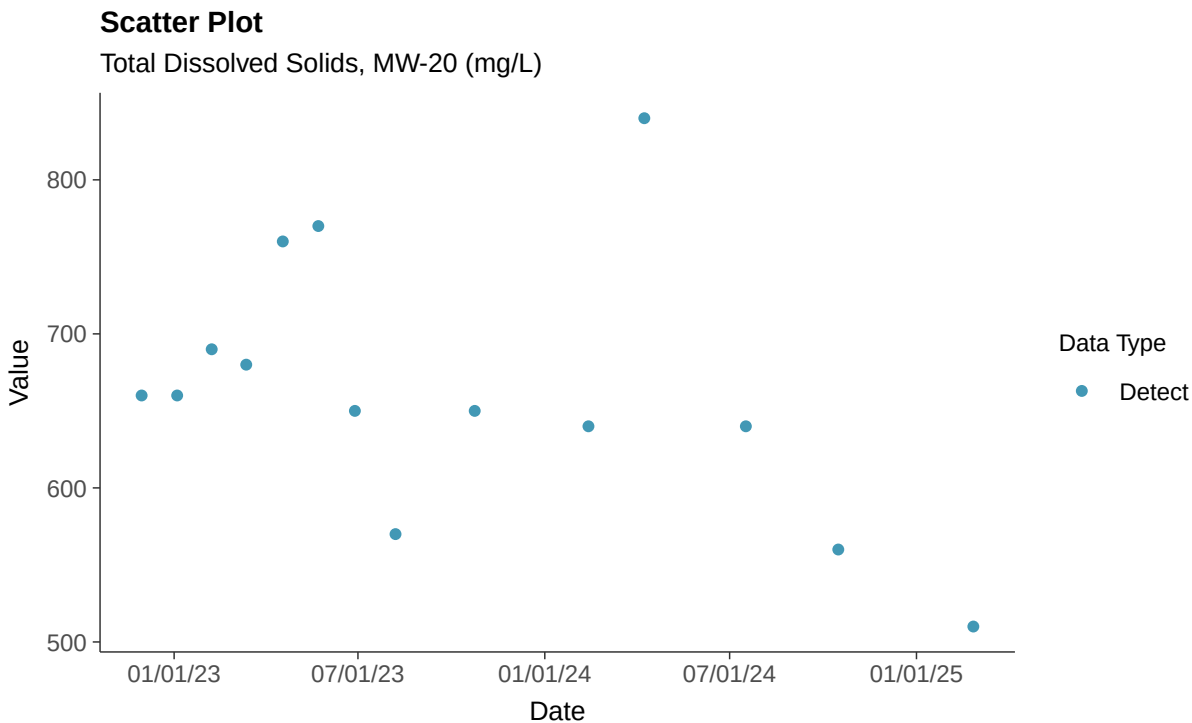


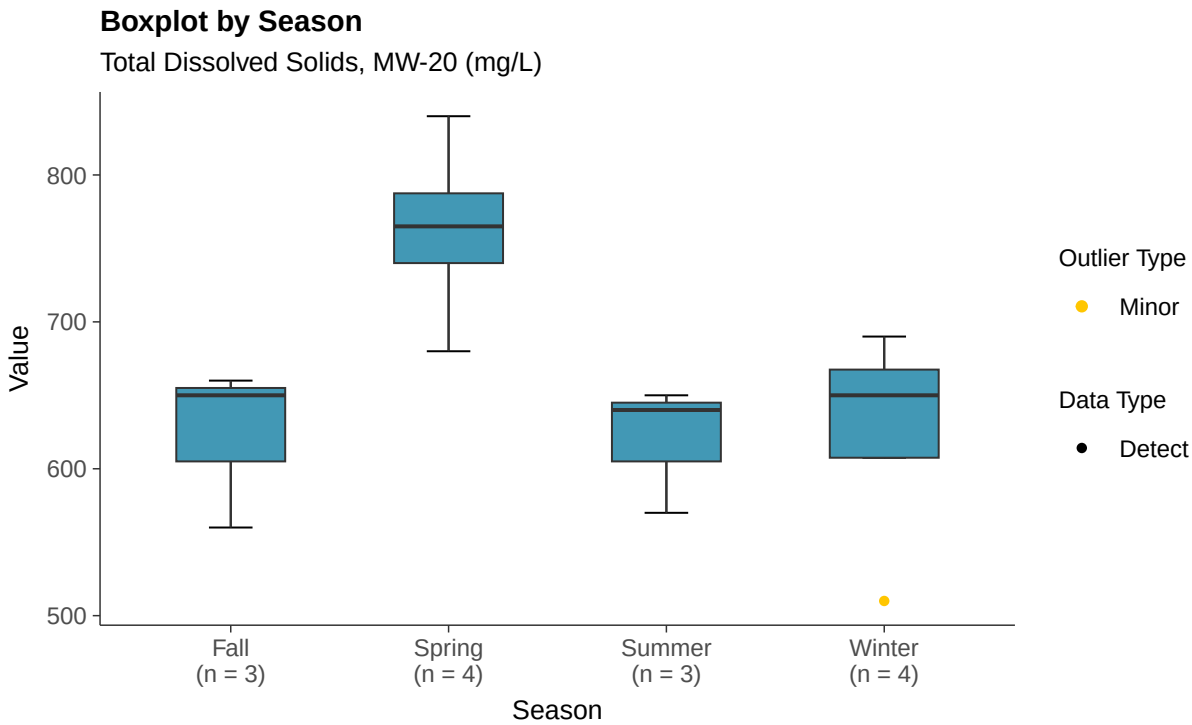
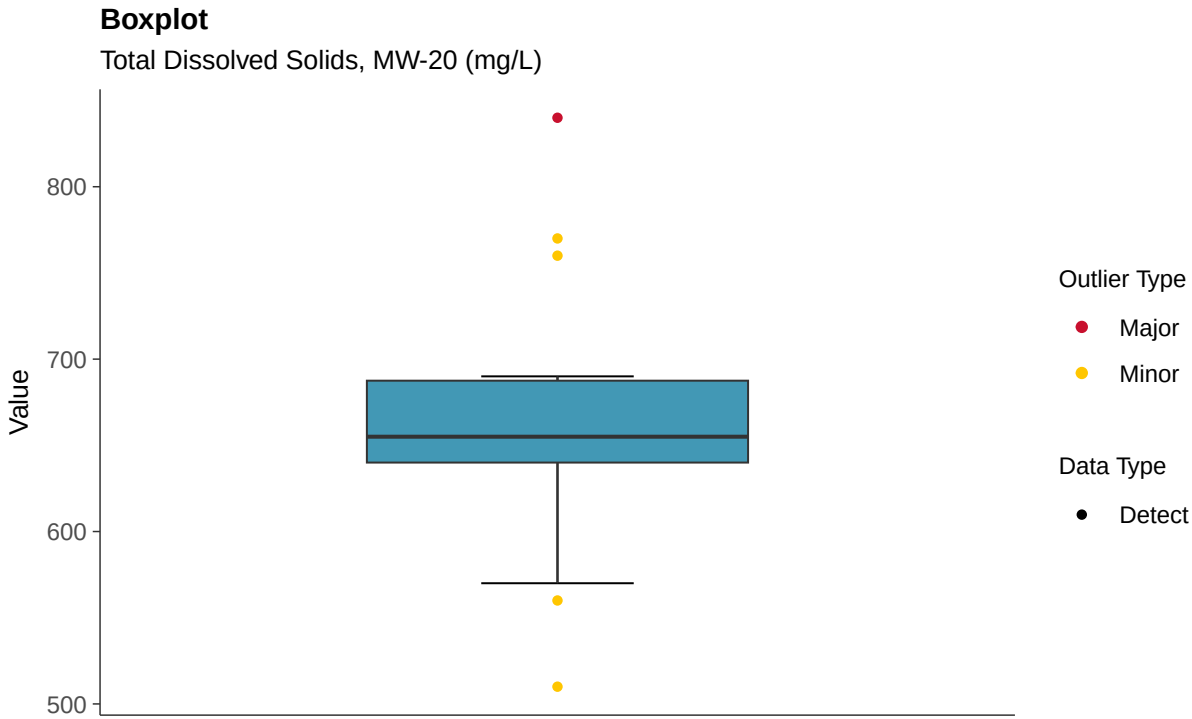


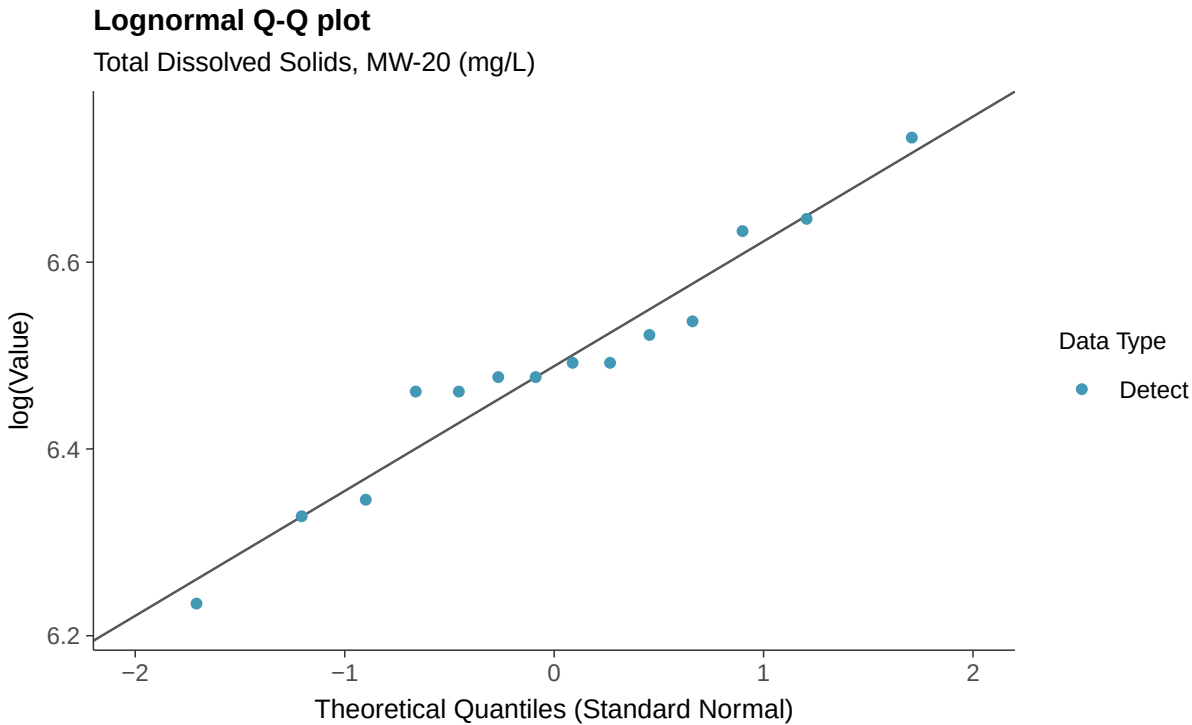
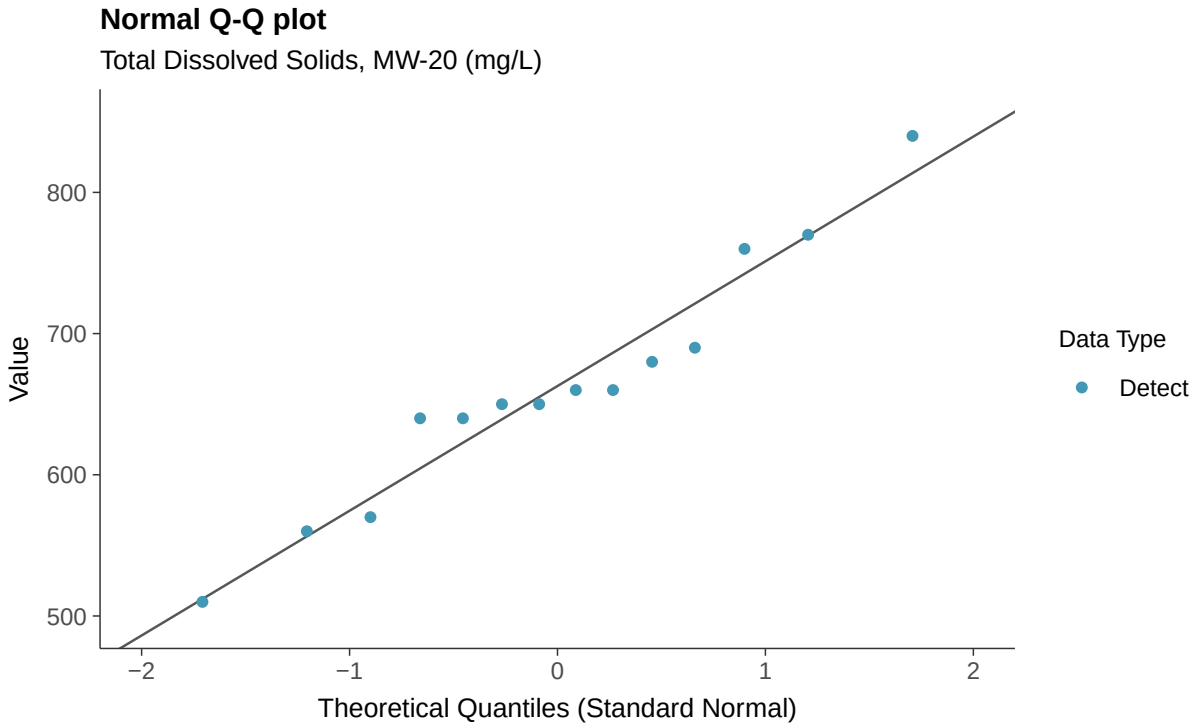


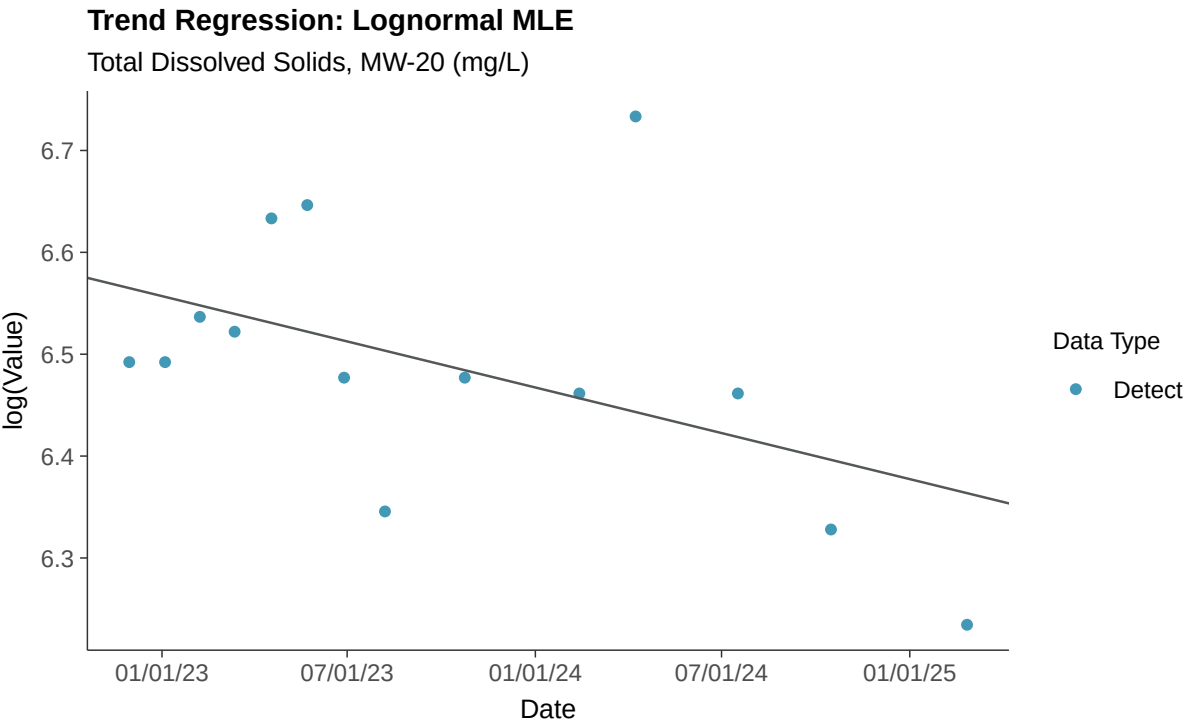
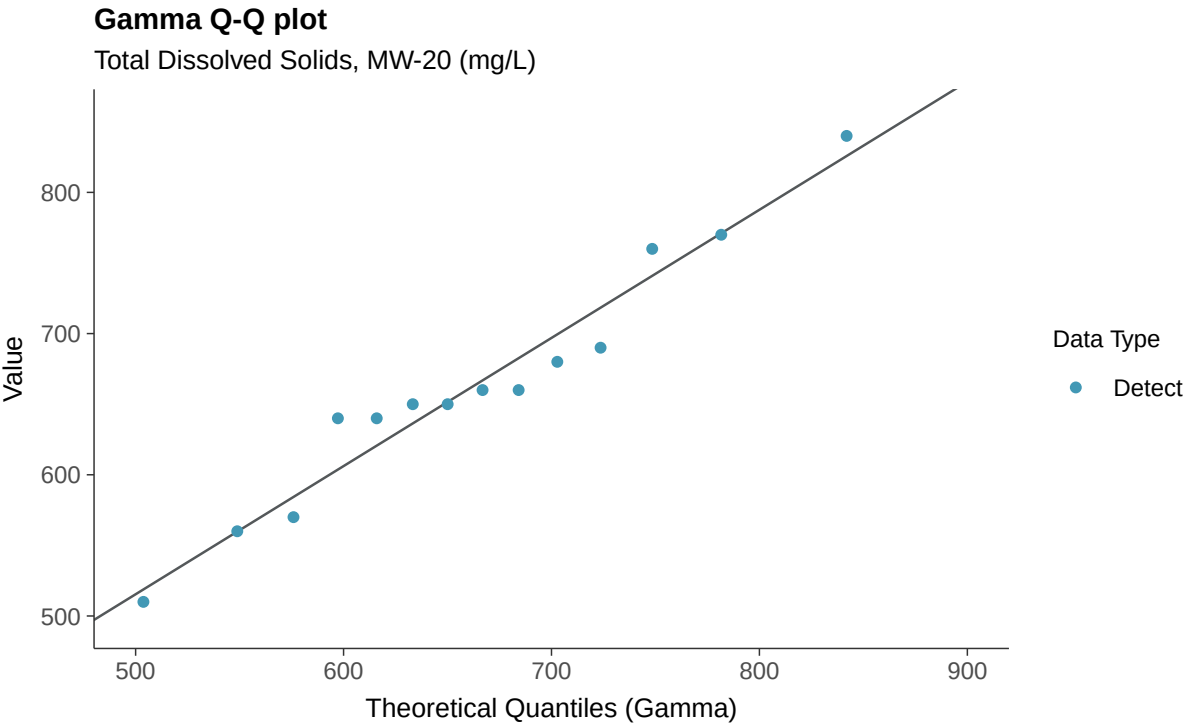
Appendix III: Total Dissolved Solids, MW-20

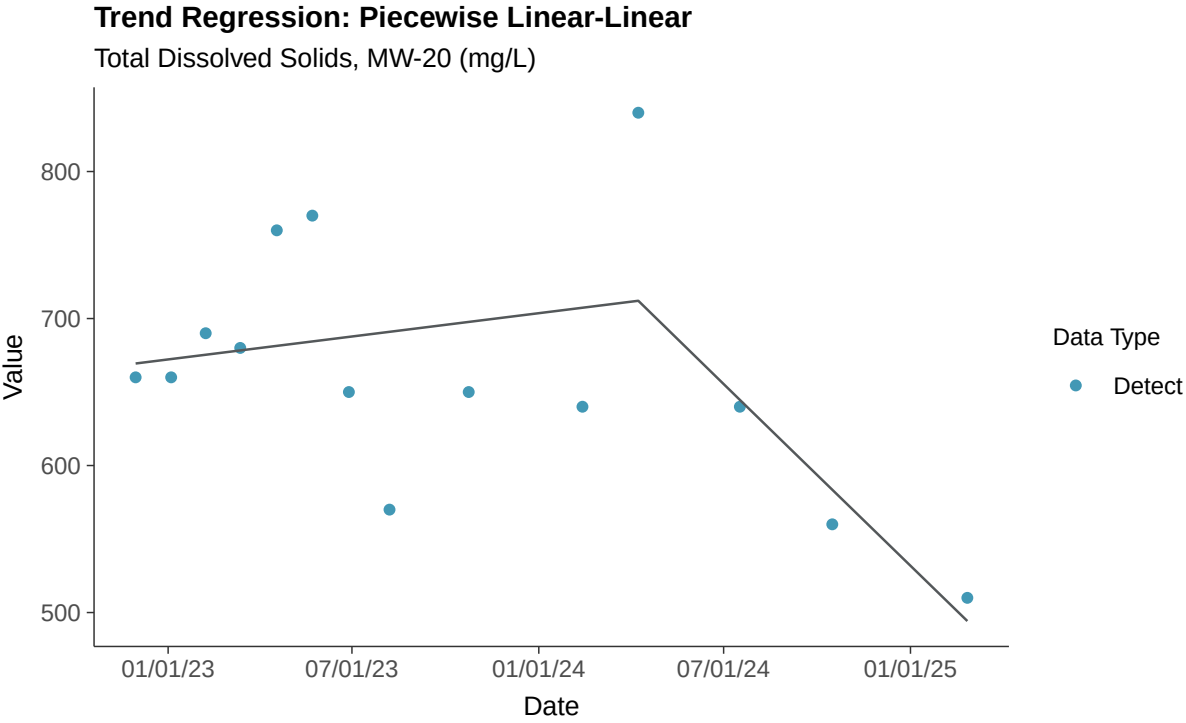
ID: 30_1_3_126







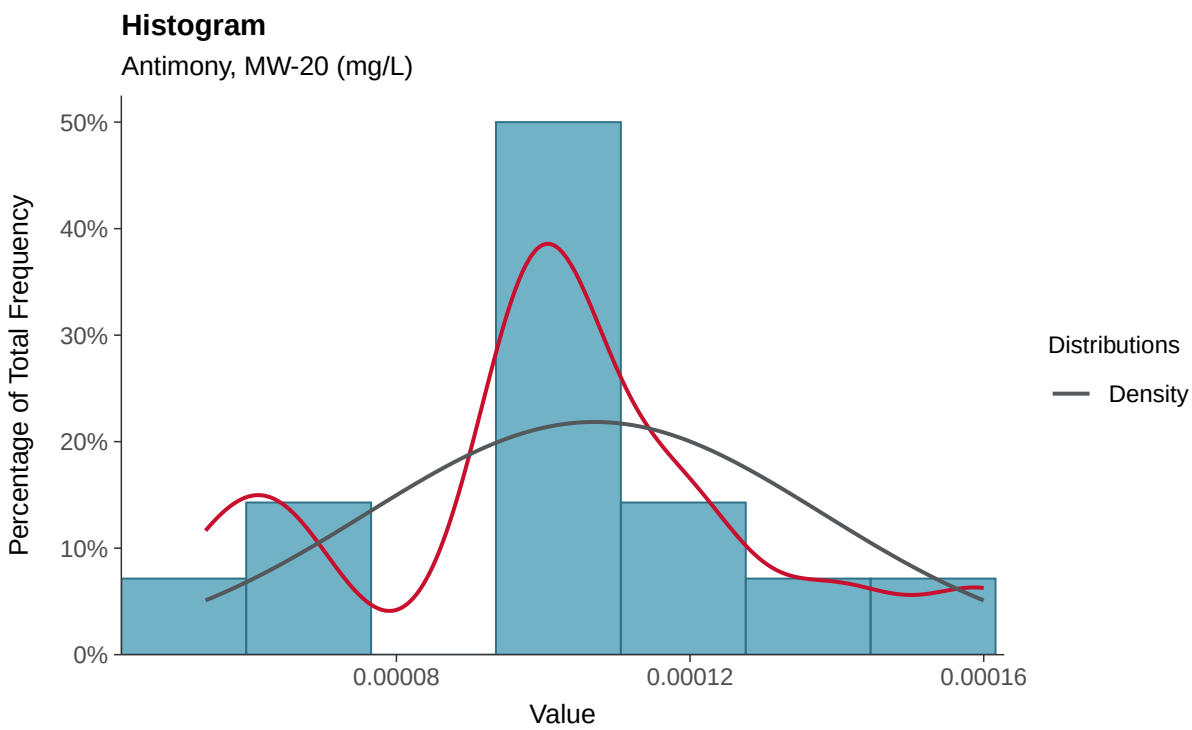
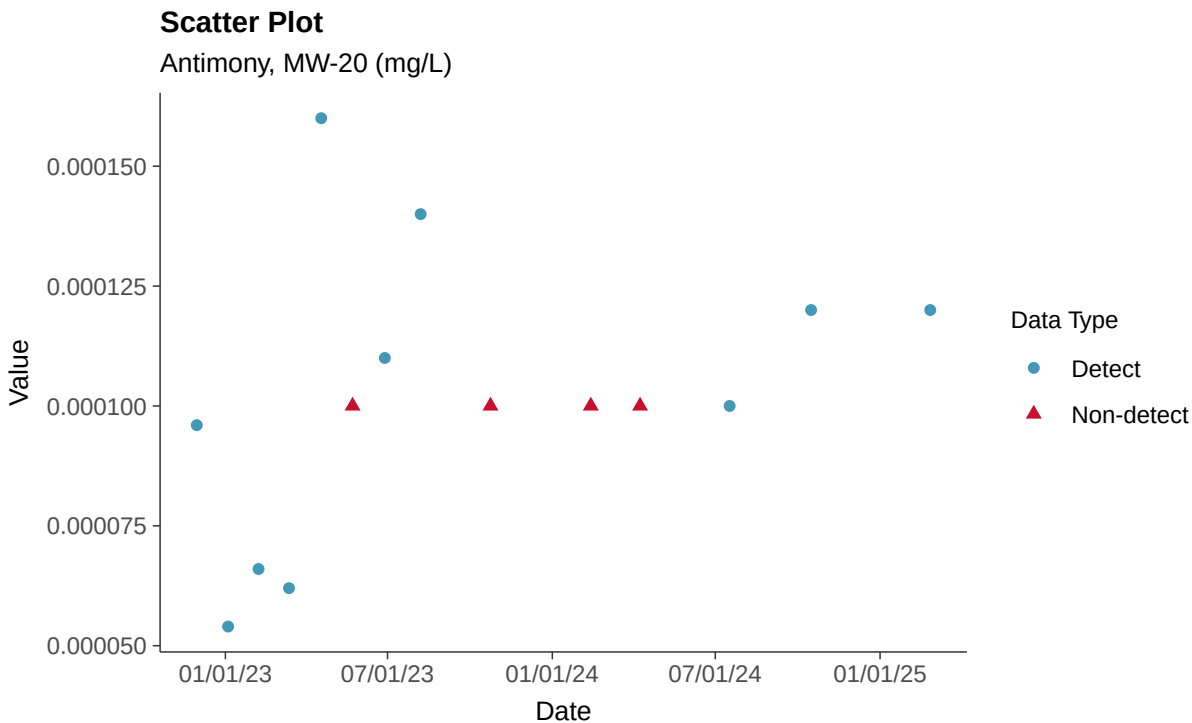


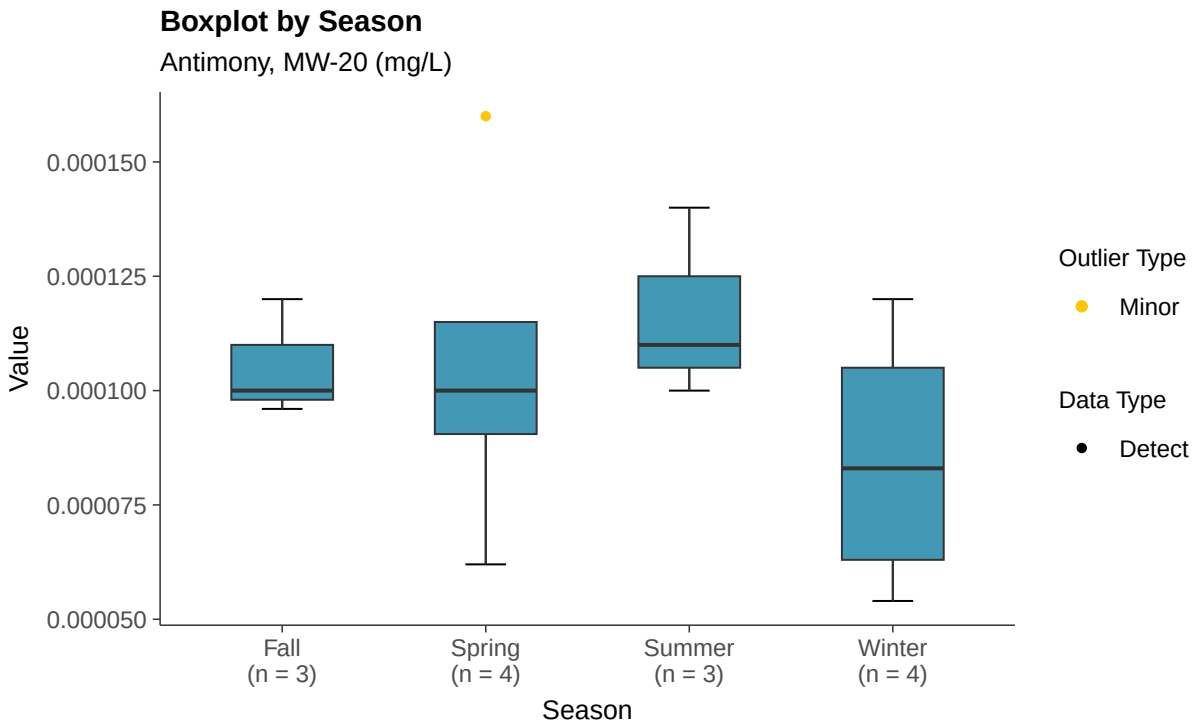
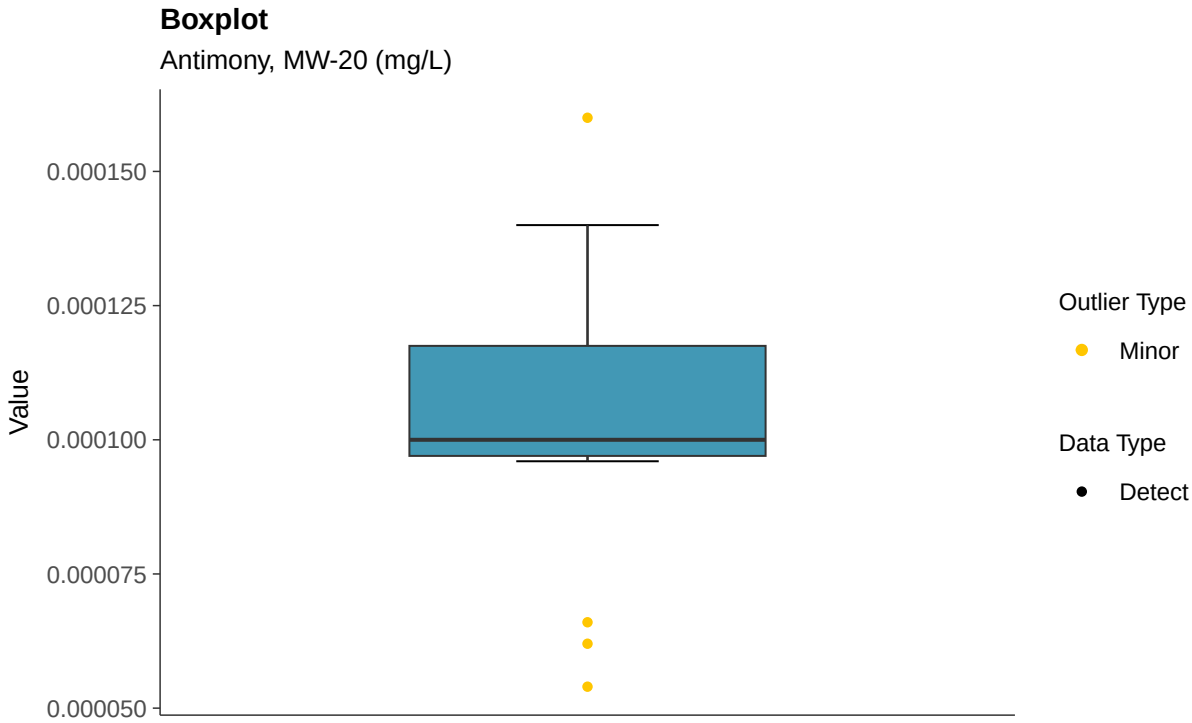




Appendix IV: Antimony, MW-20

ID: 30_1_4_101

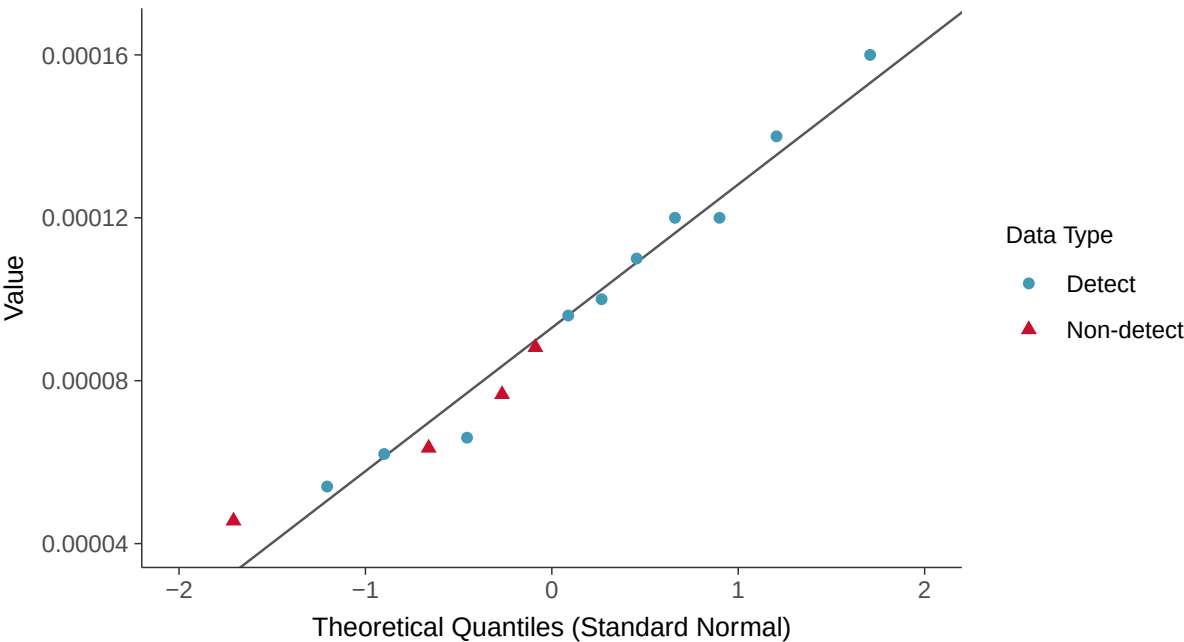






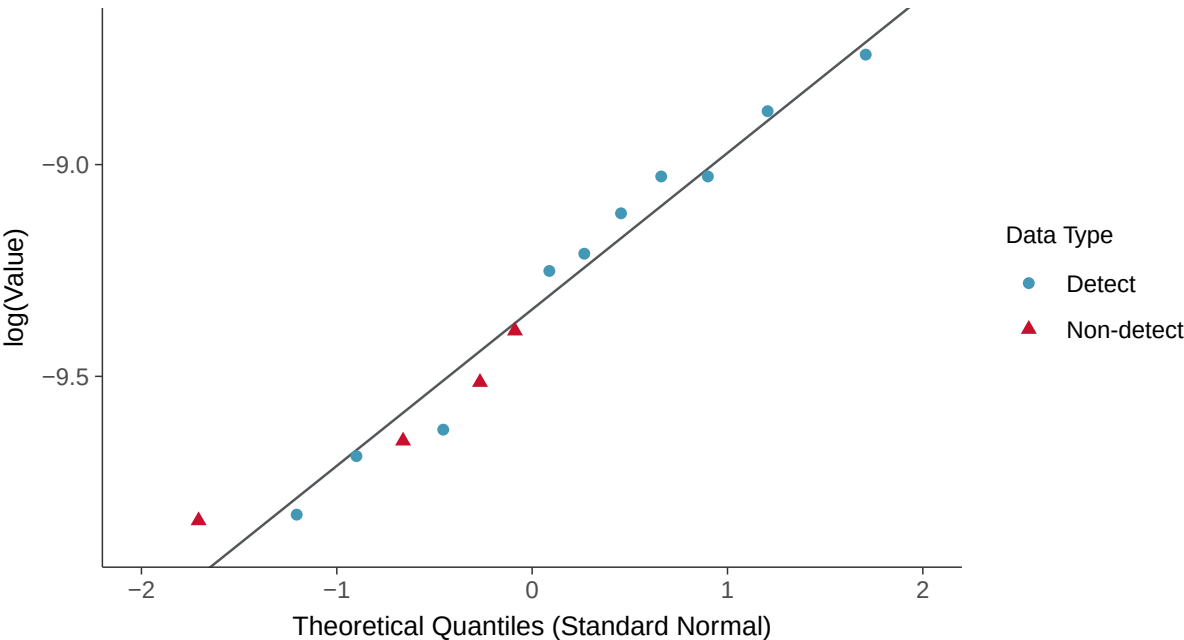
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-20 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

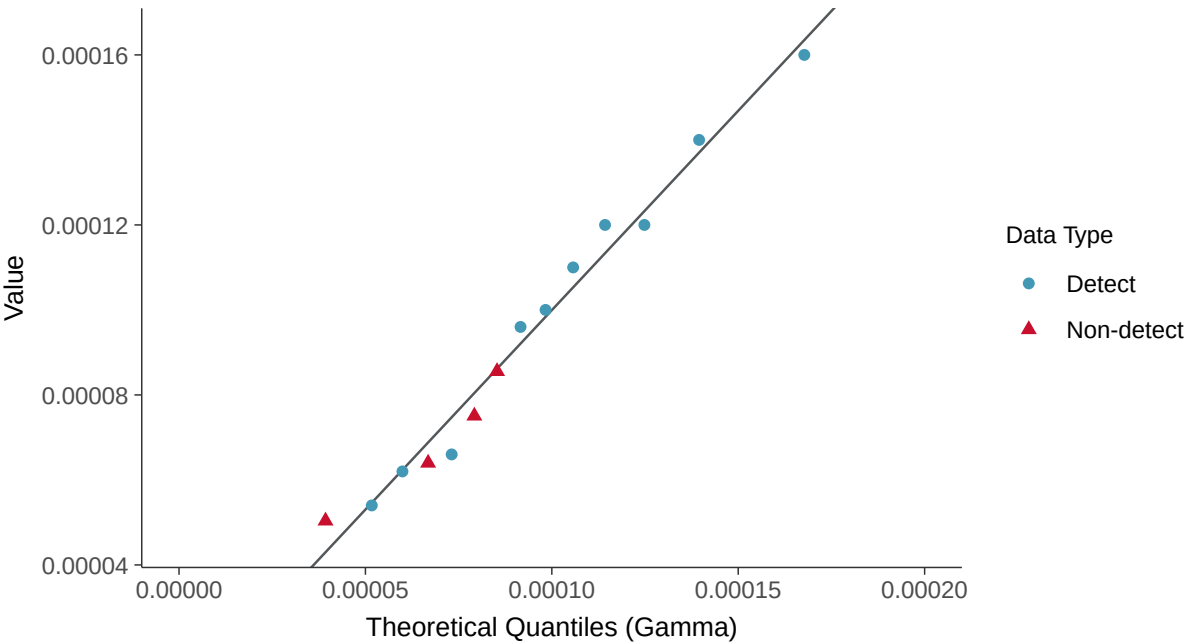
Antimony, MW-20 (mg/L)





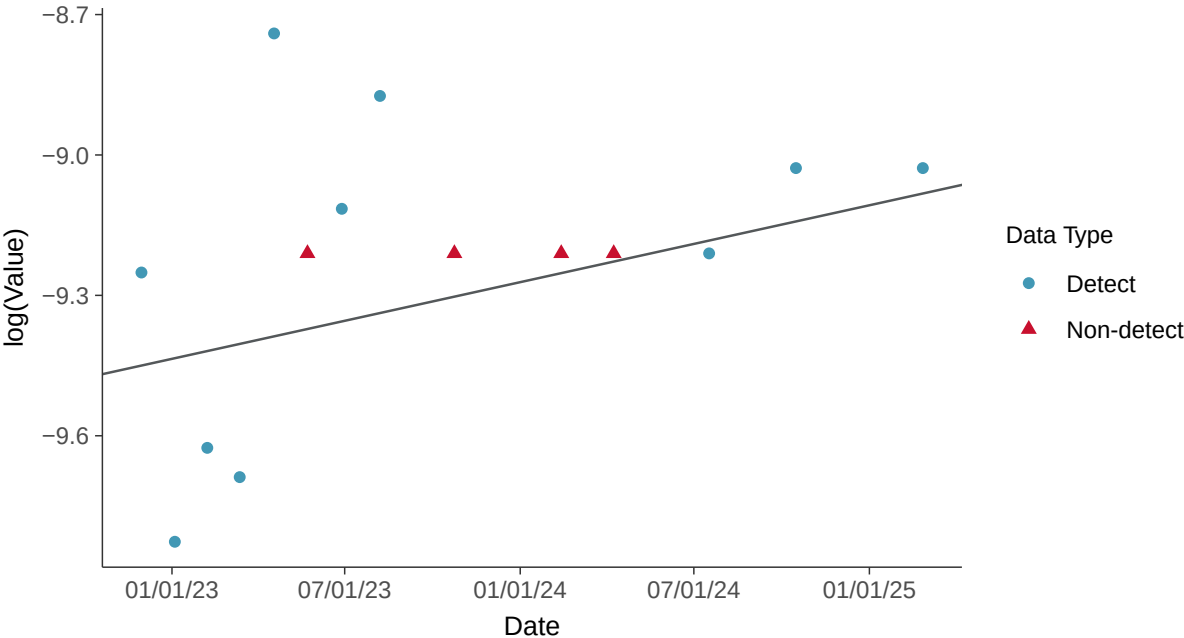
Gamma Q-Q plot using ROS Imputed Estimates

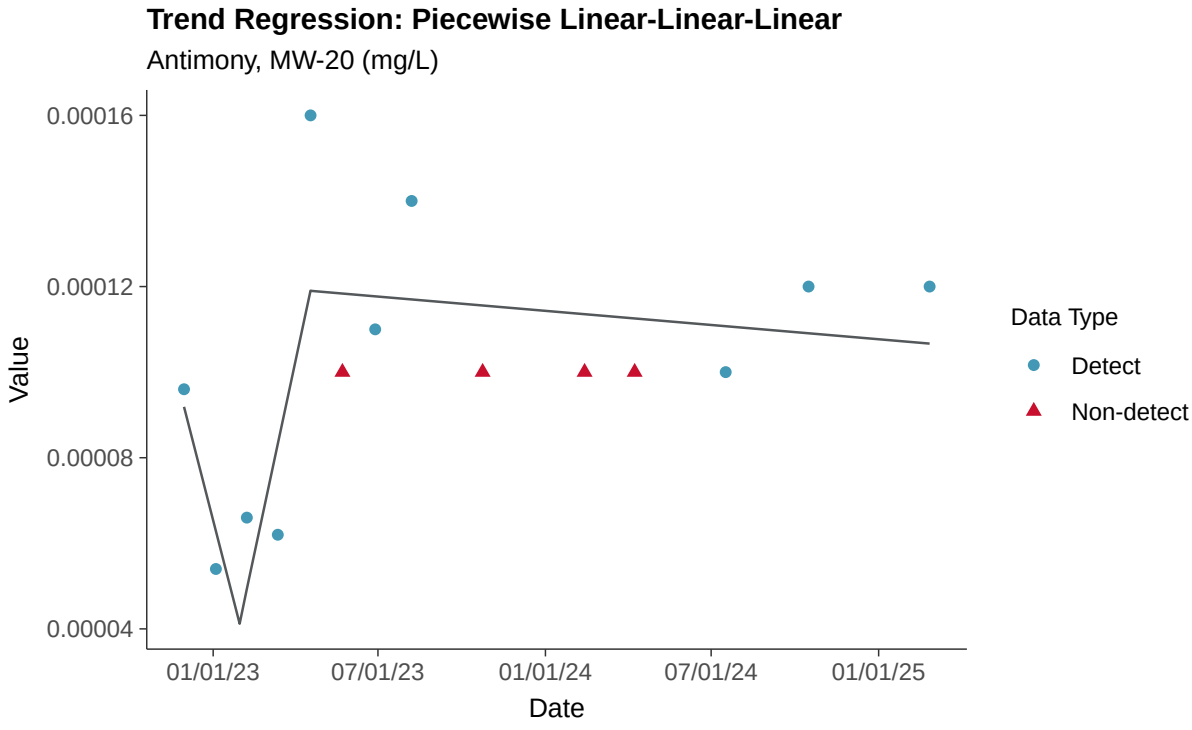
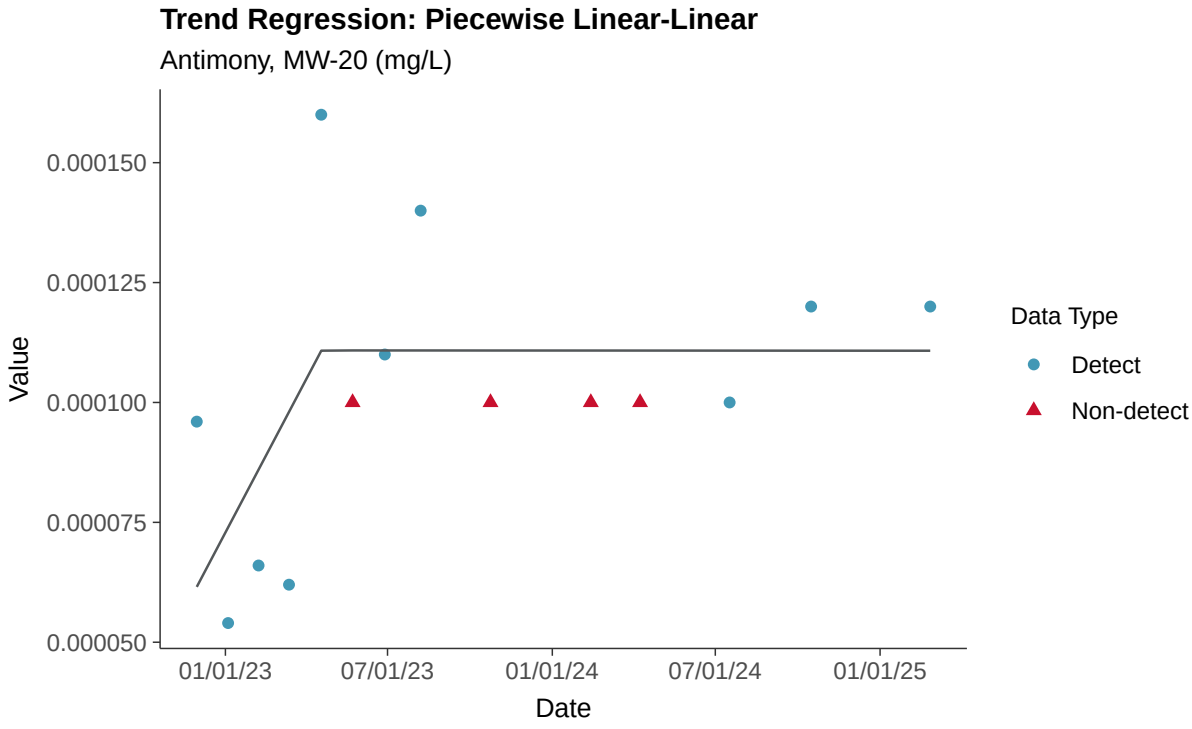
Antimony, MW-20 (mg/L)



Trend Regression: Lognormal MLE

Antimony, MW-20 (mg/L)

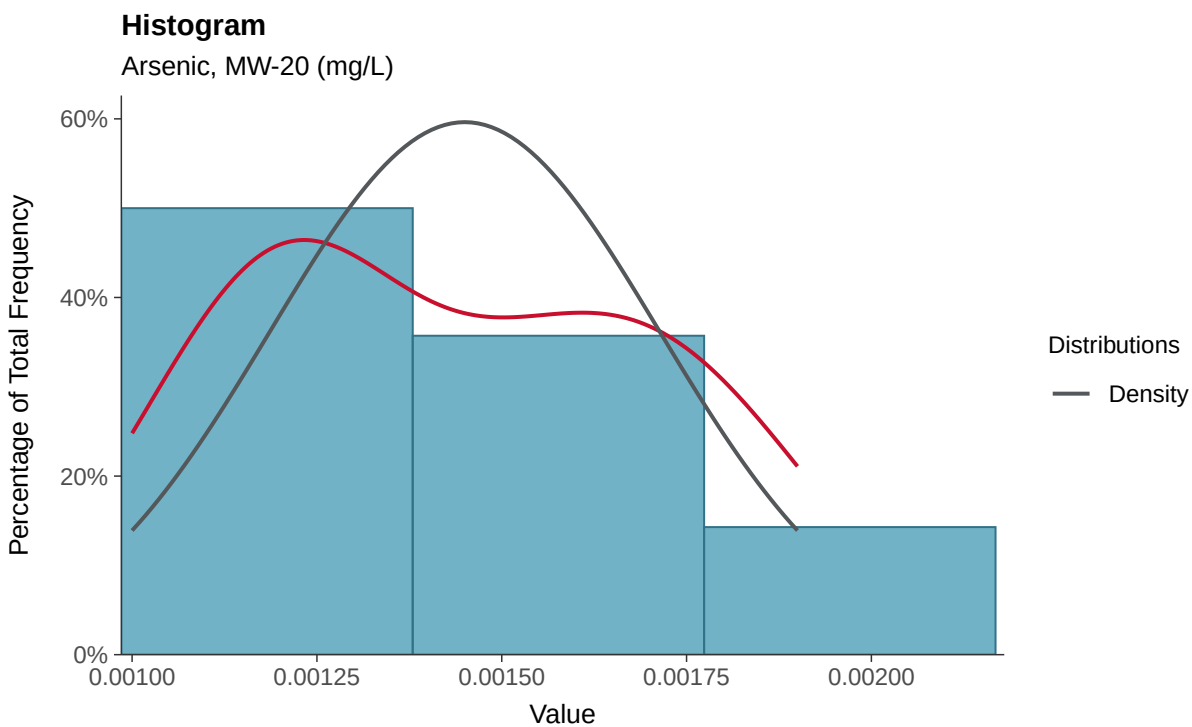
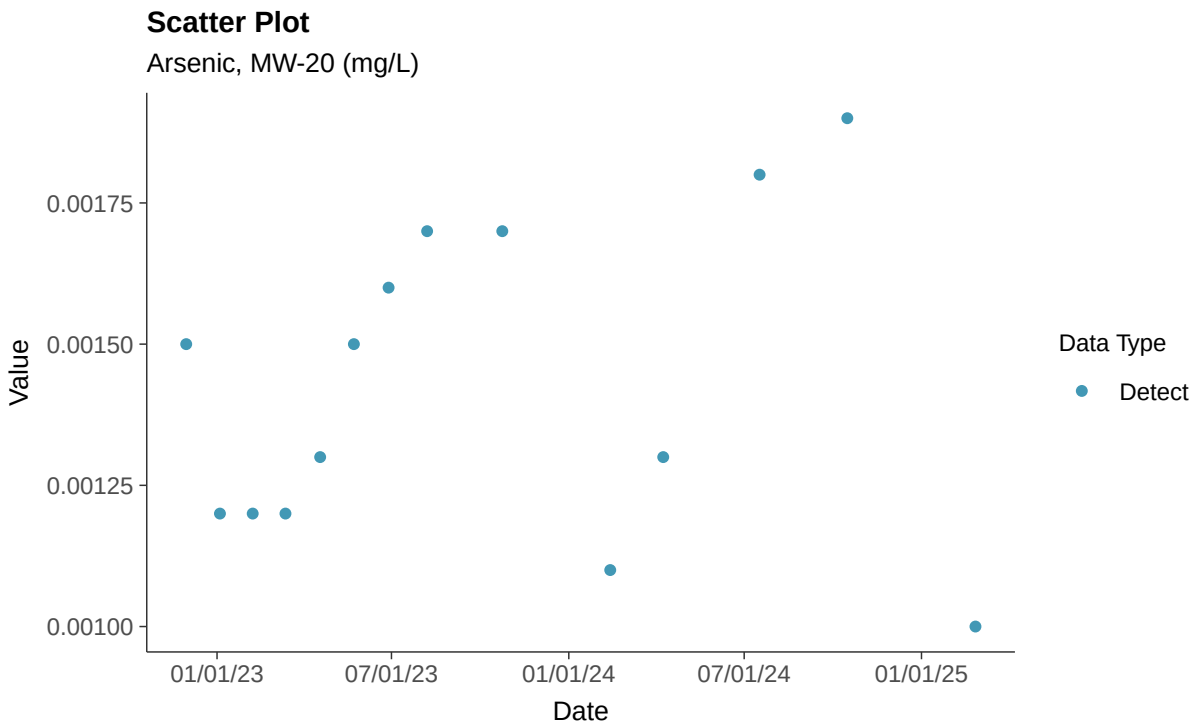


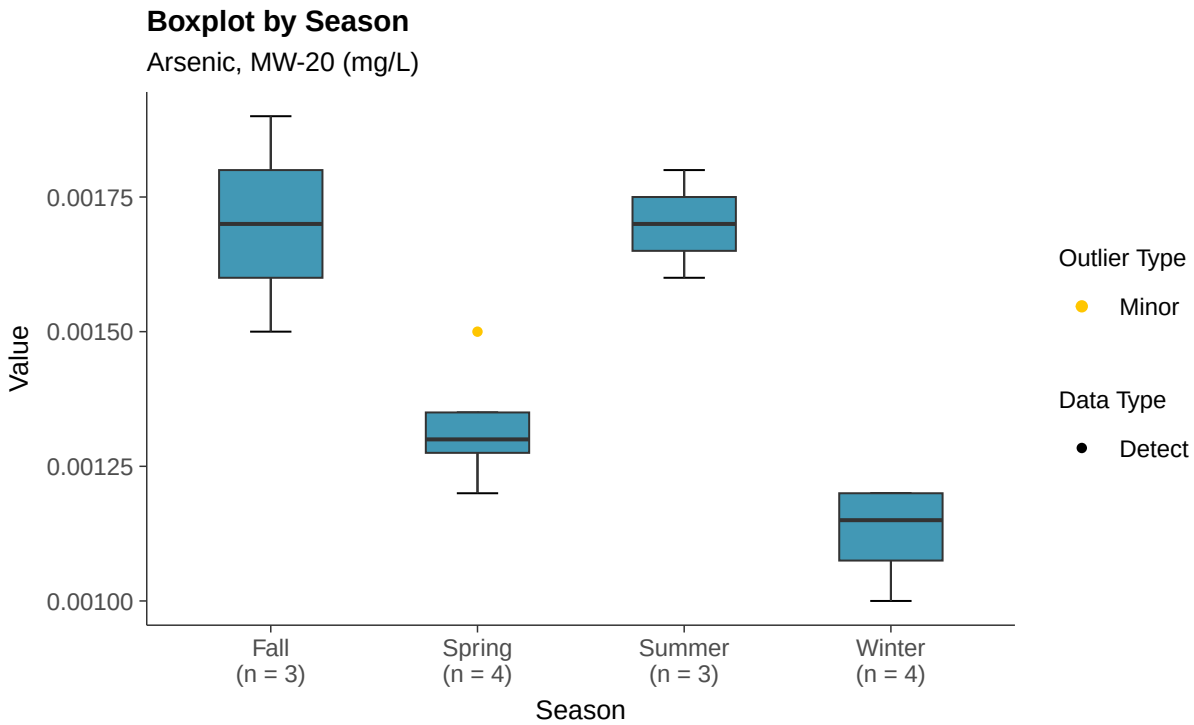
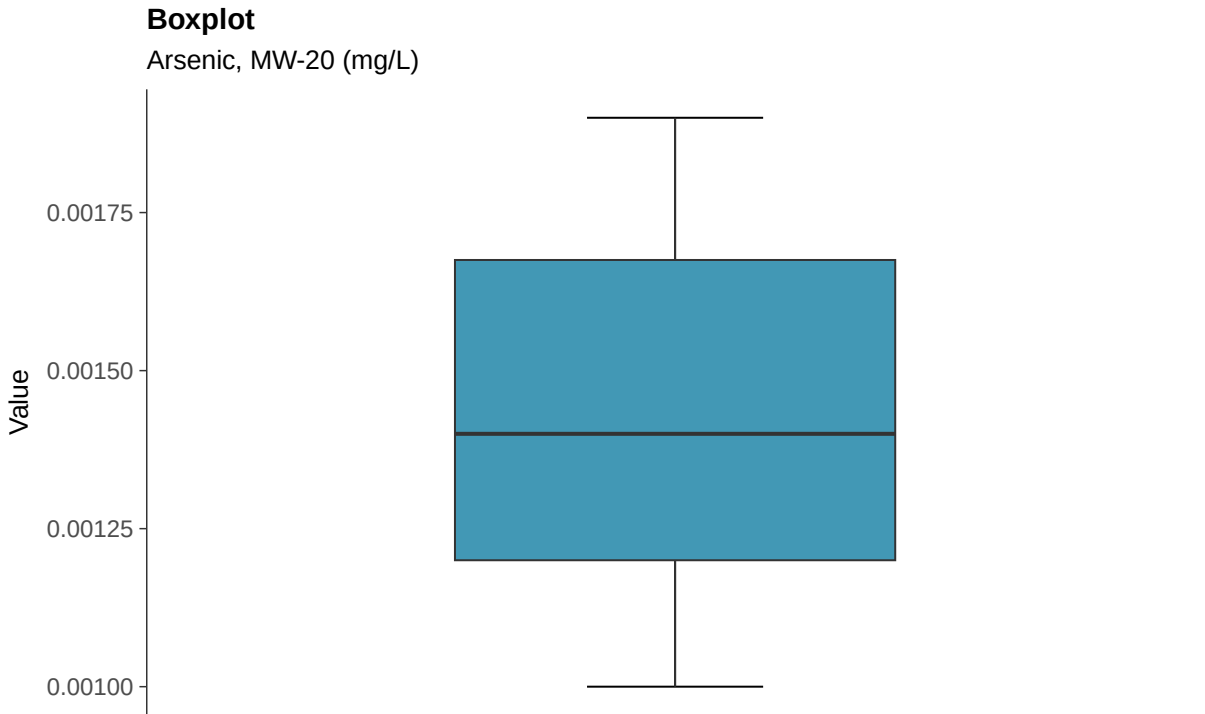


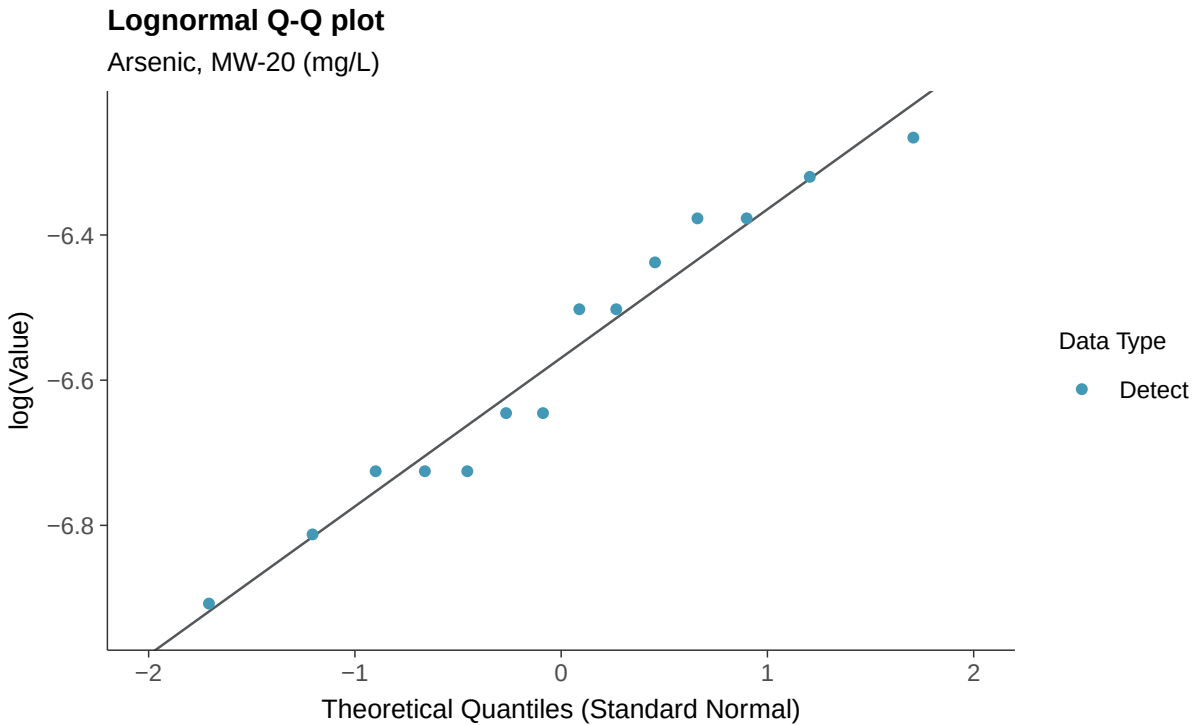
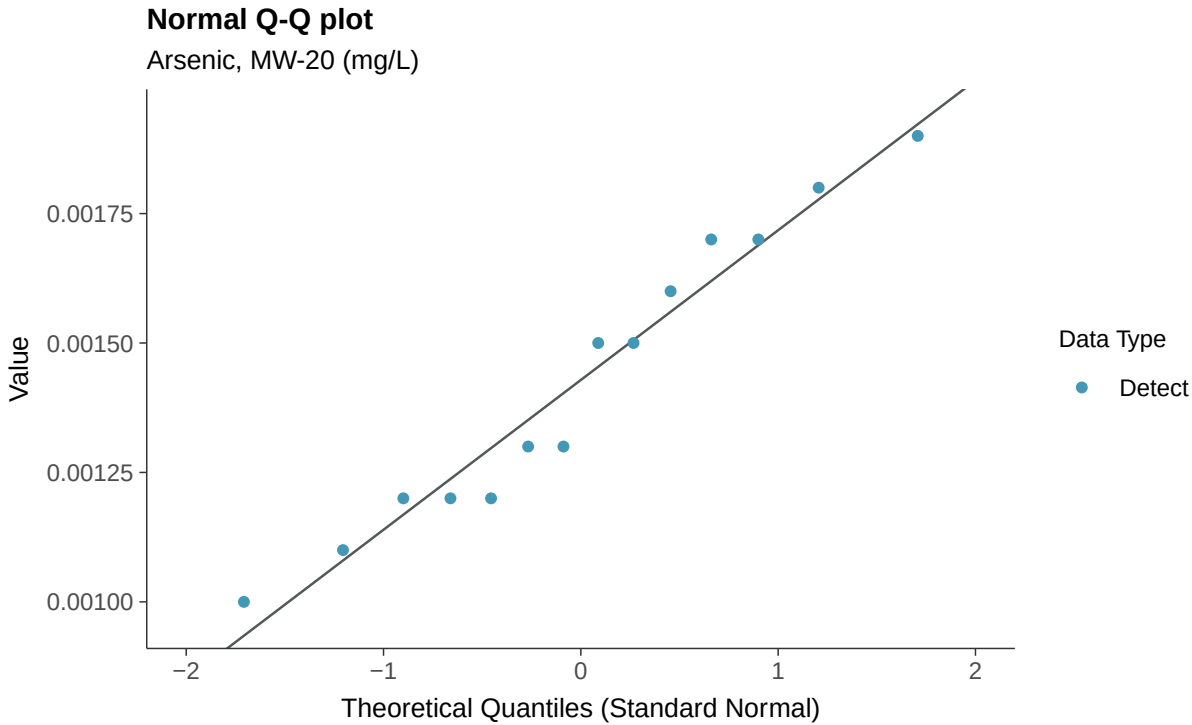


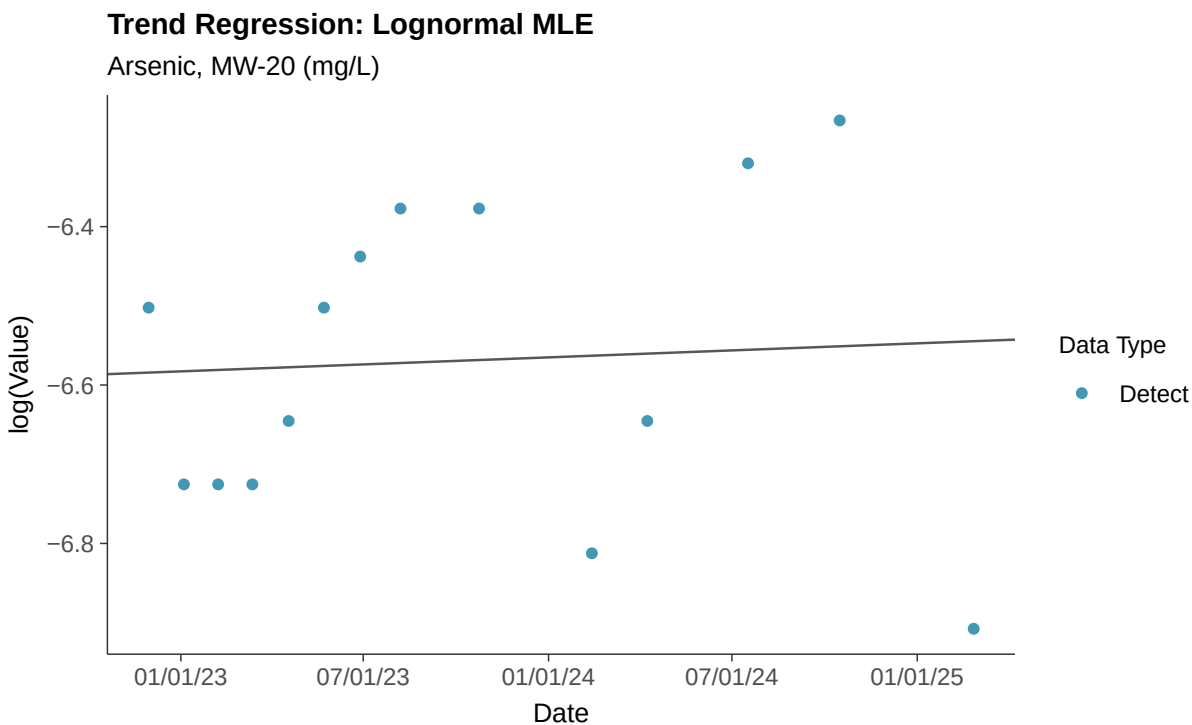
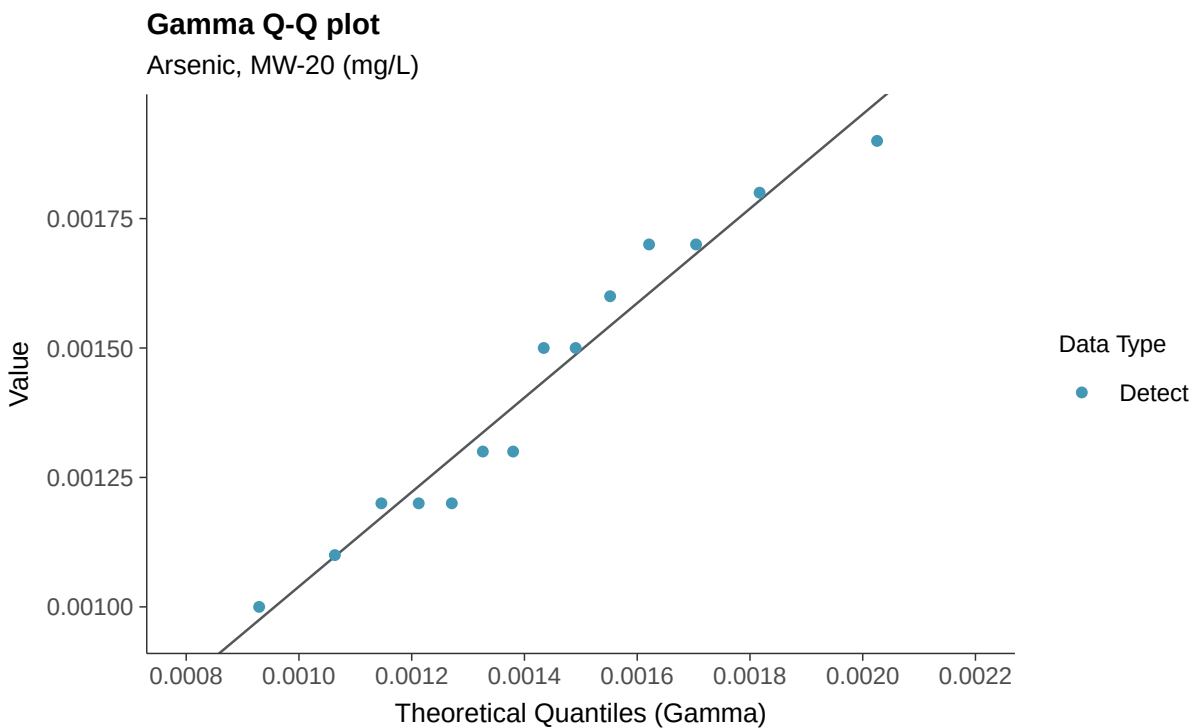
Appendix IV: Arsenic, MW-20

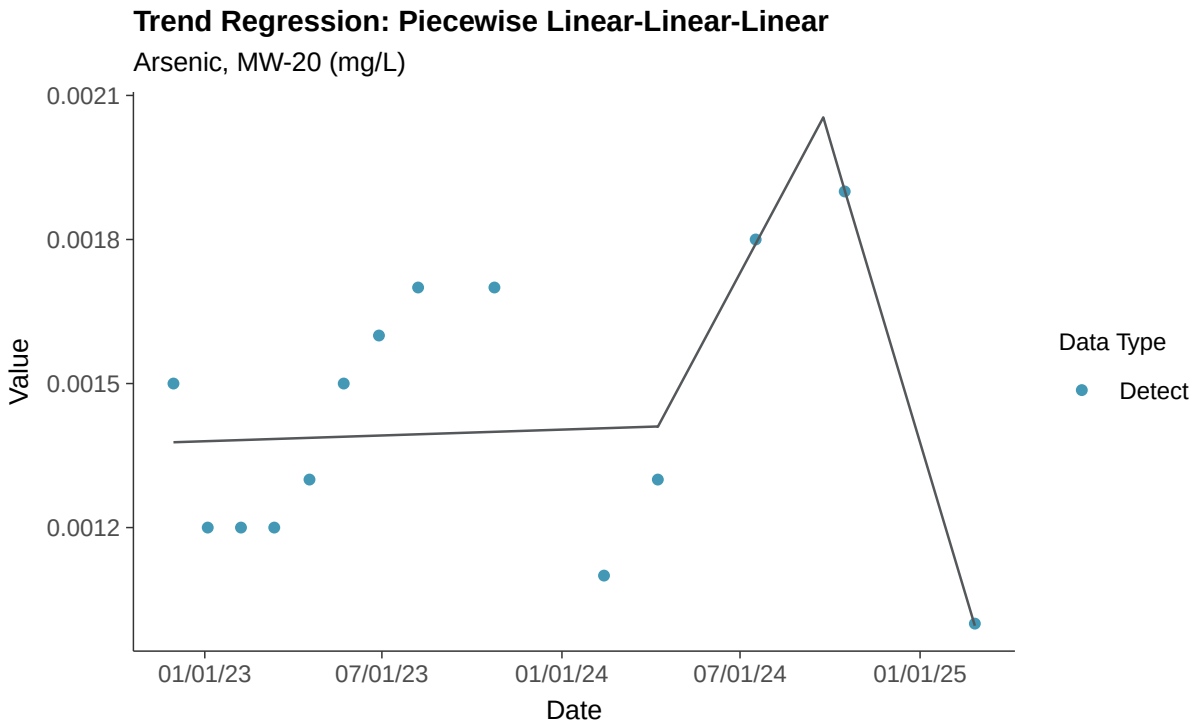
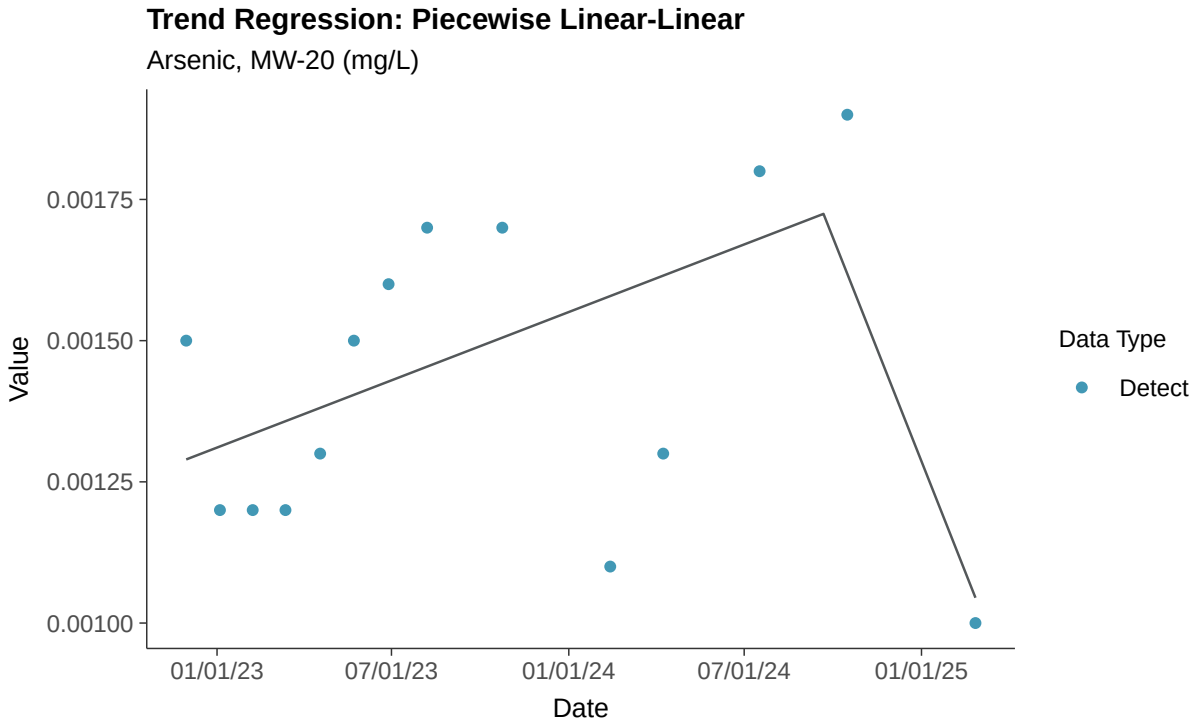
ID: 30_1_4_102







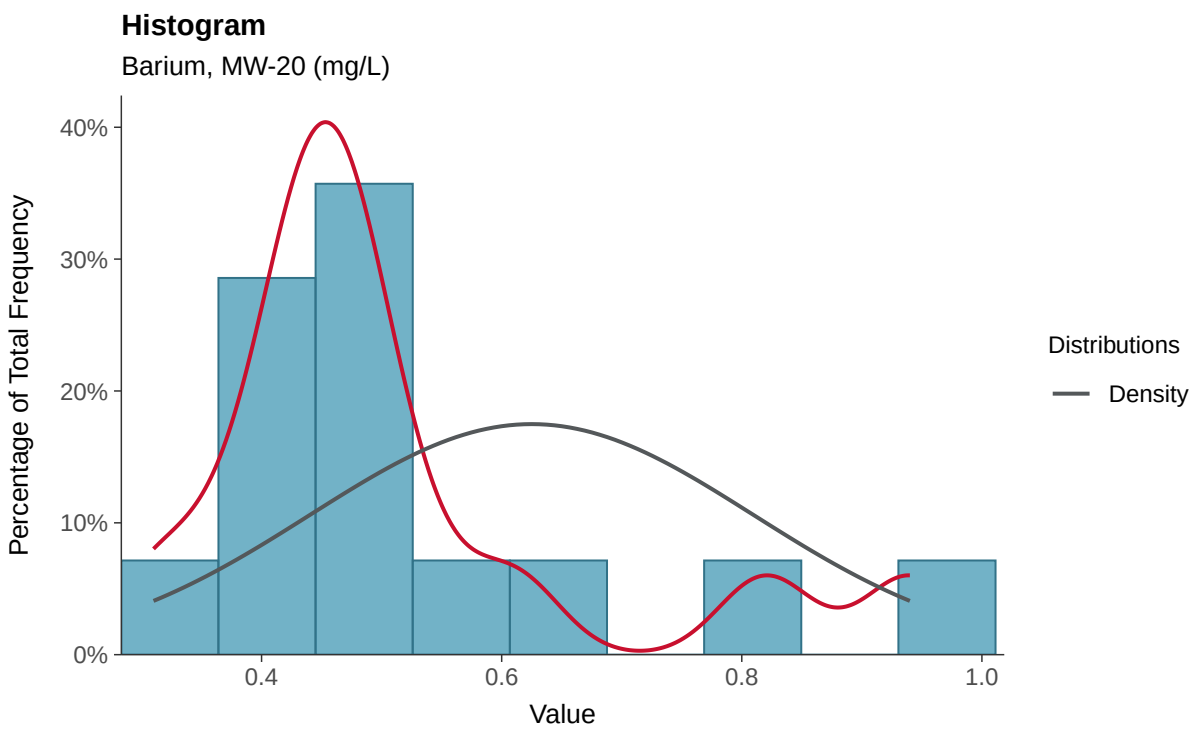
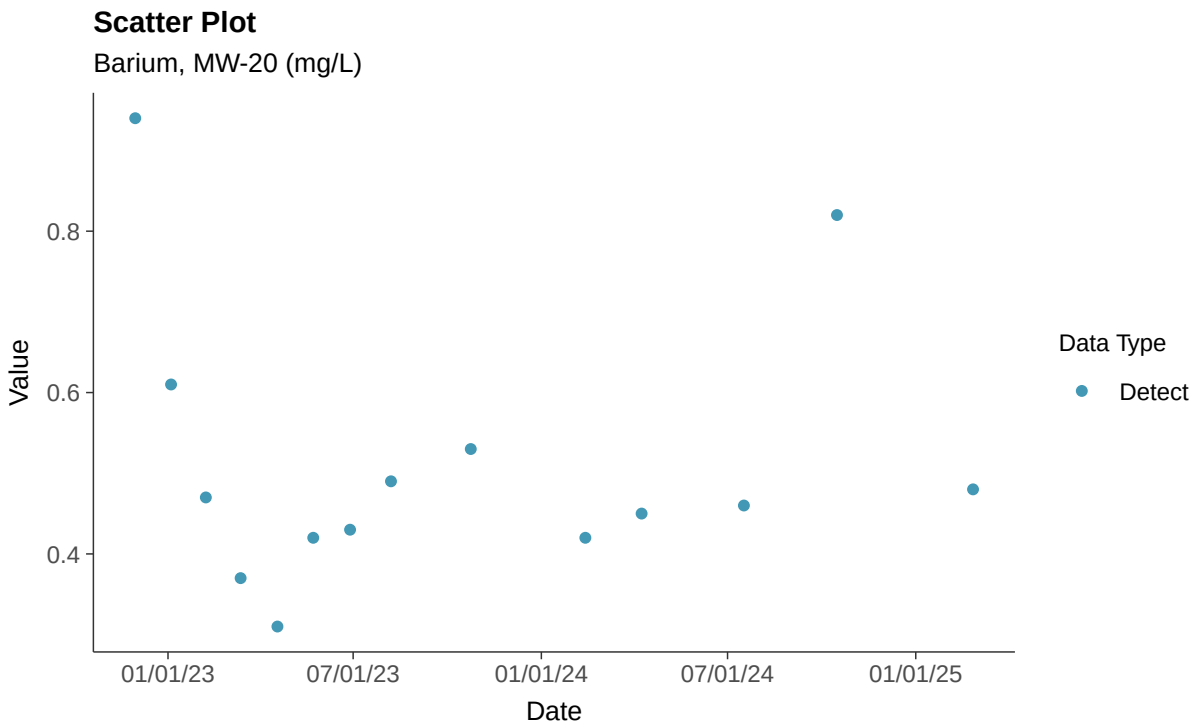


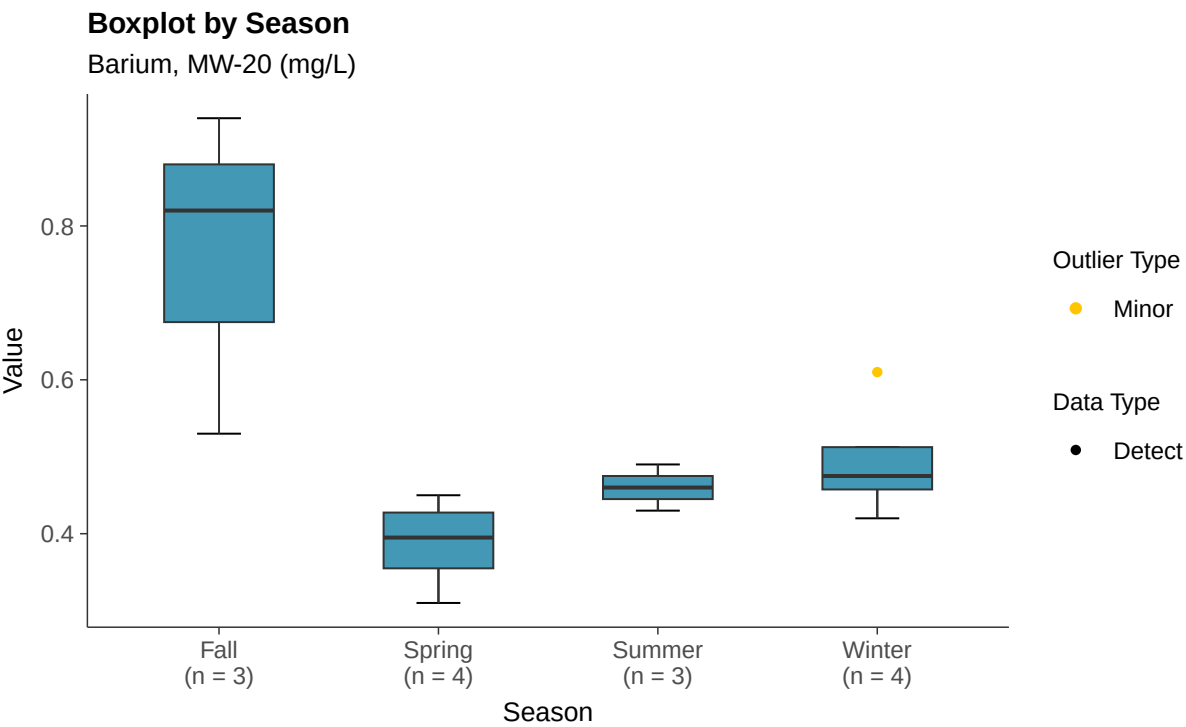
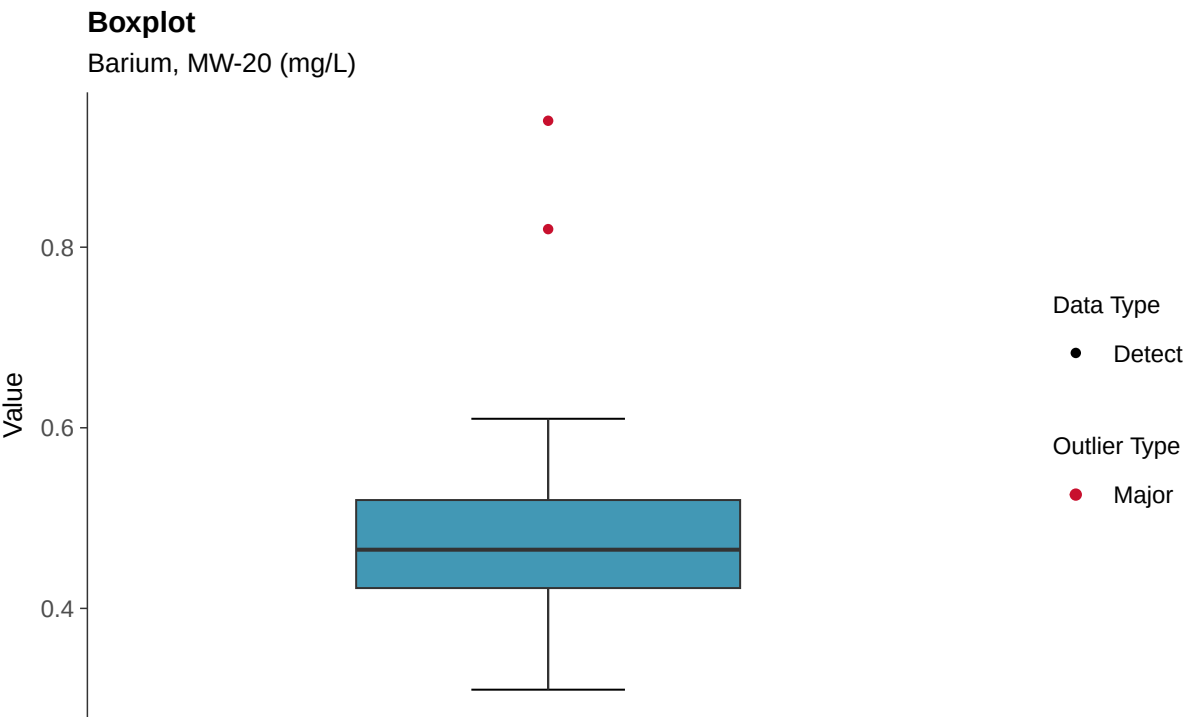


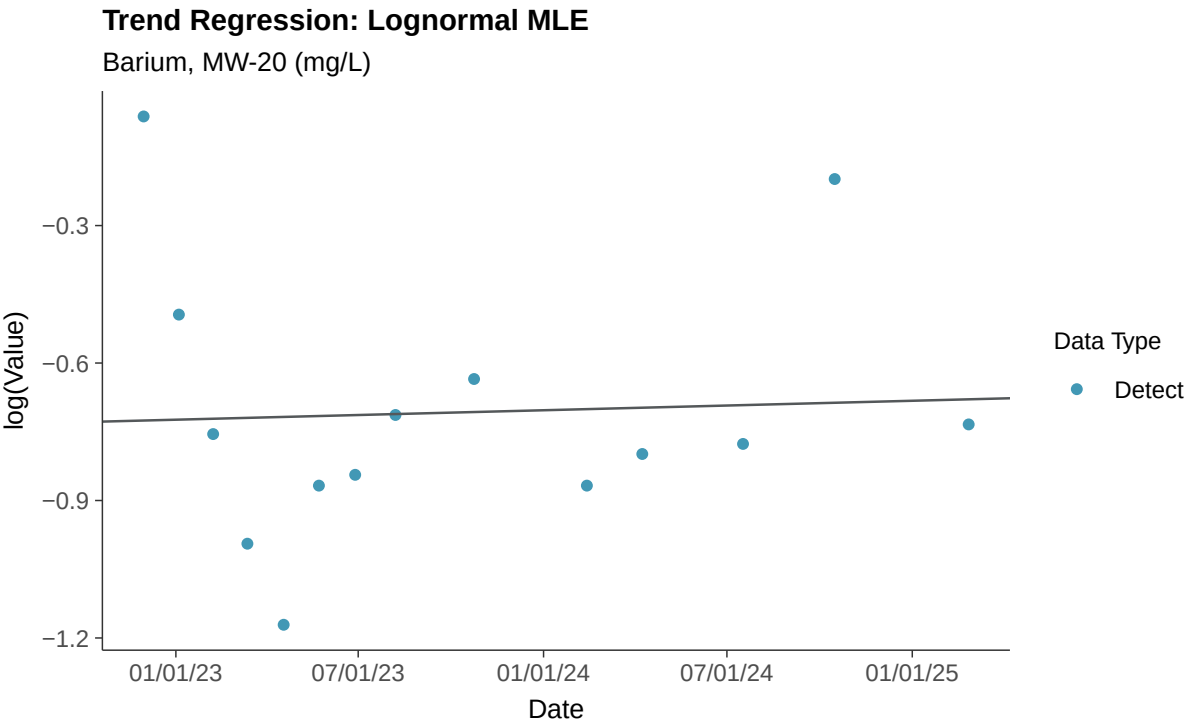
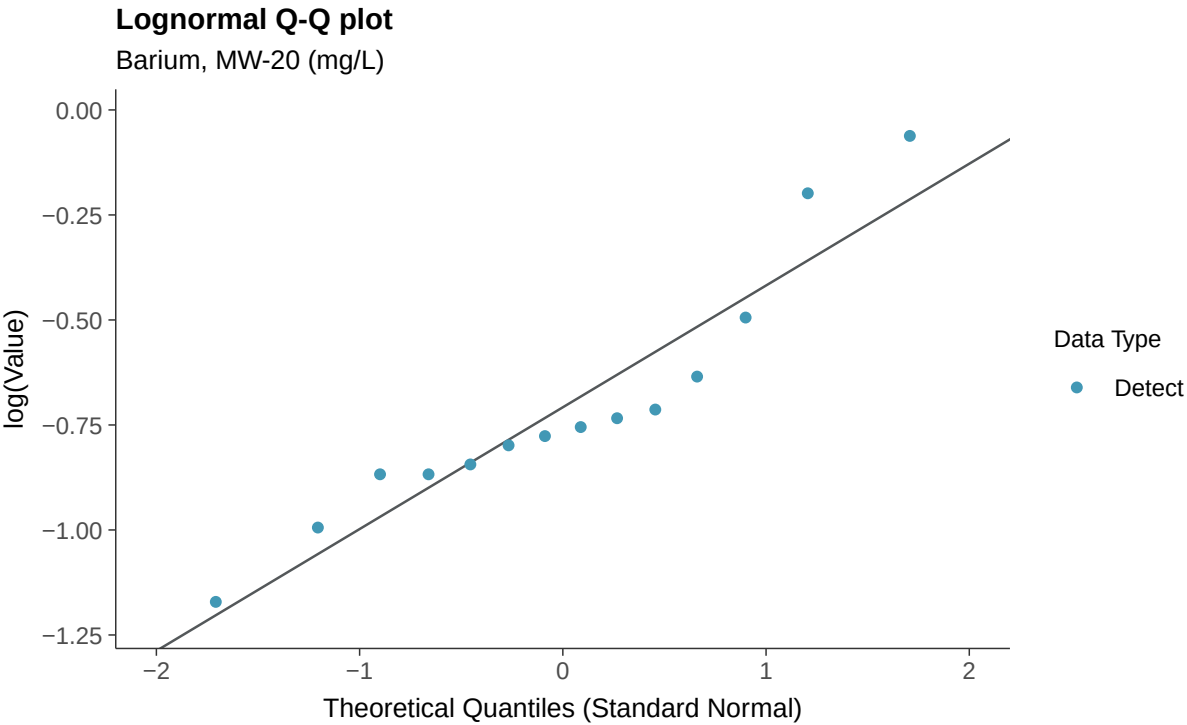


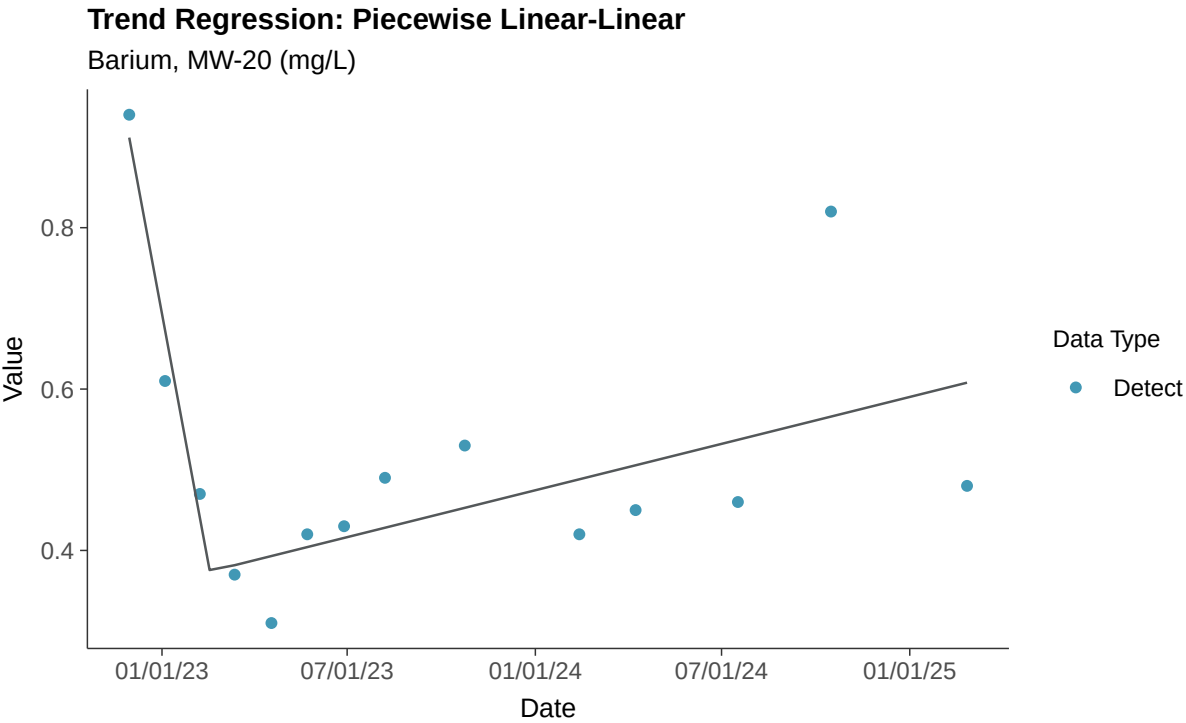
Appendix IV: Barium, MW-20

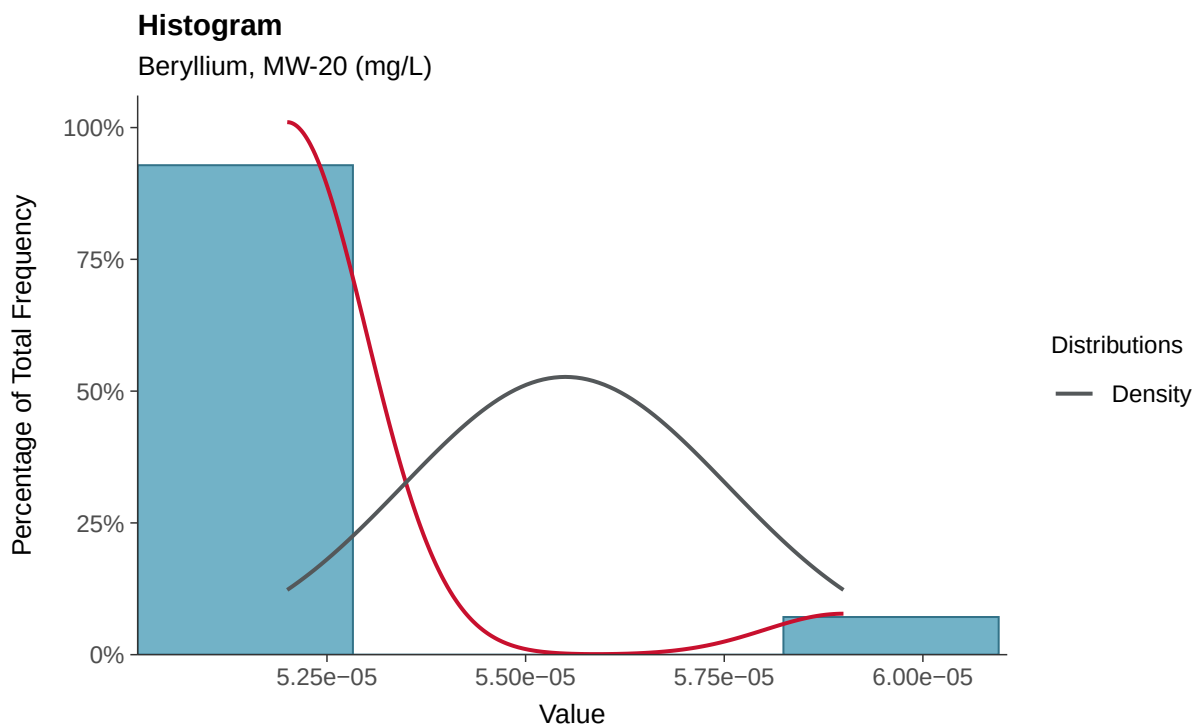
ID: 30_1_4_103

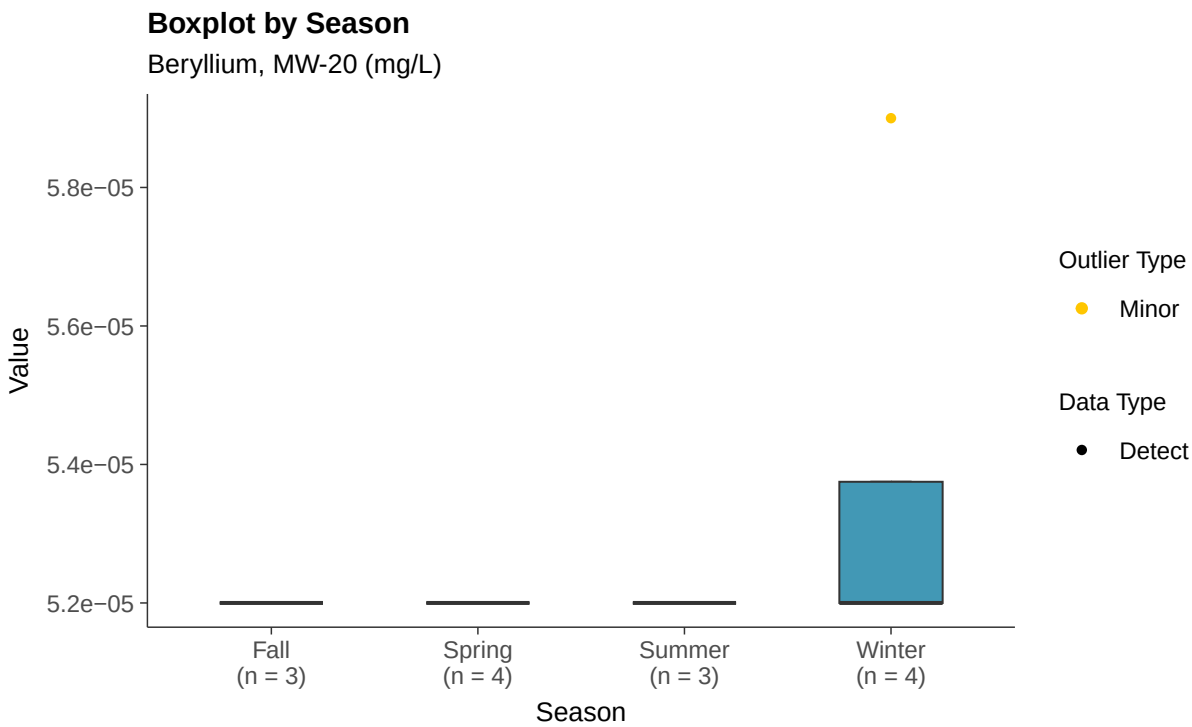
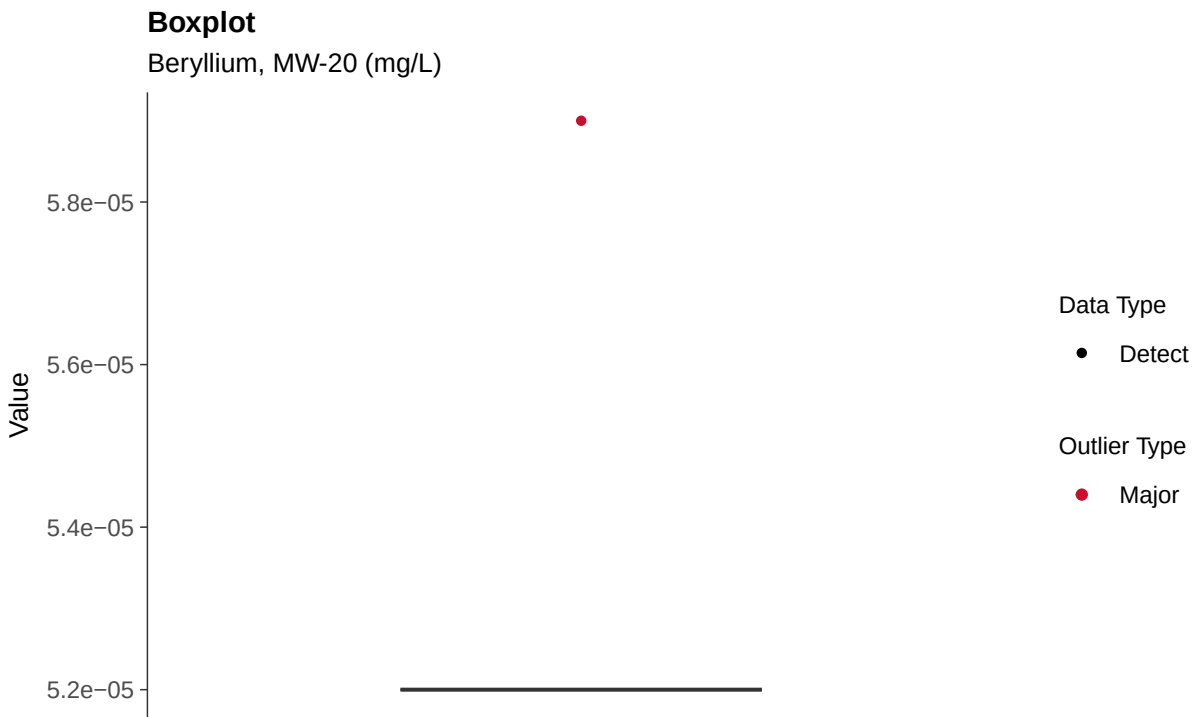








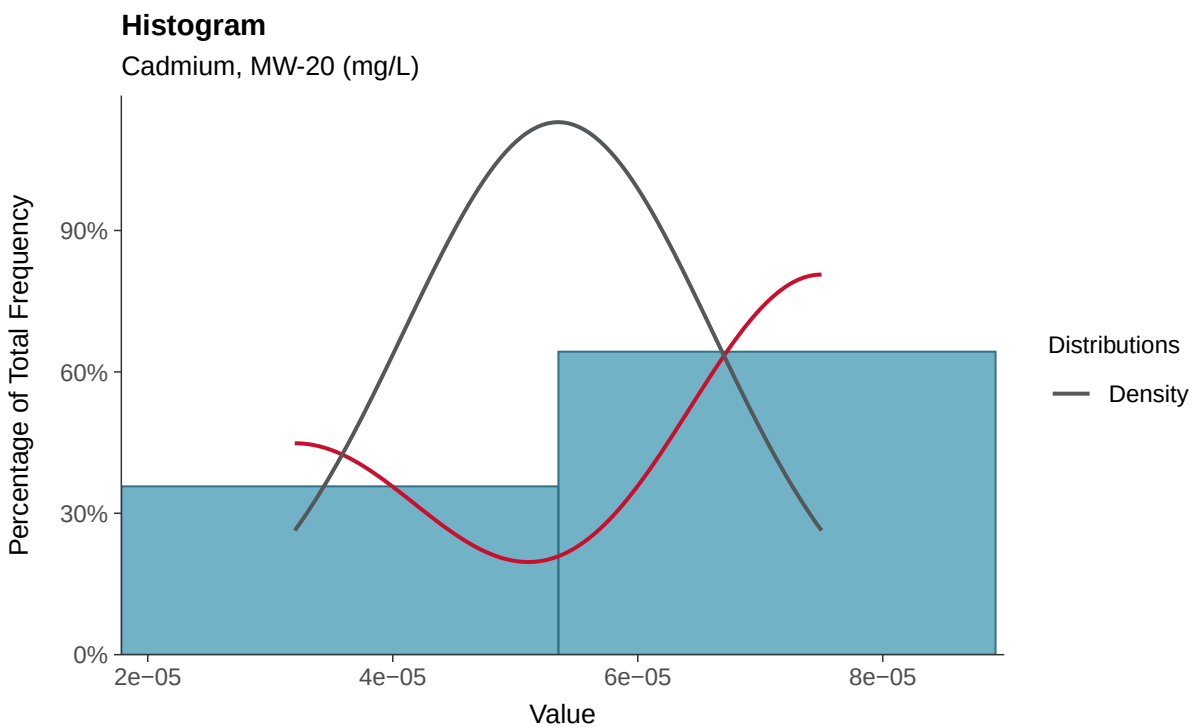
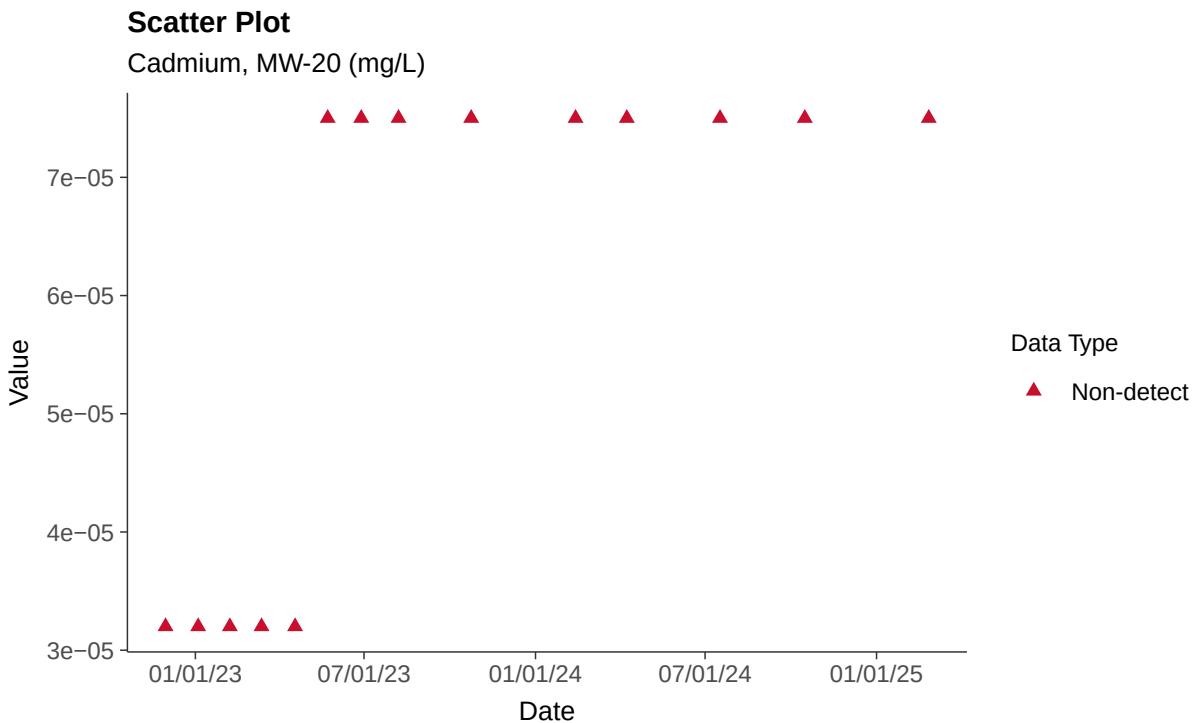


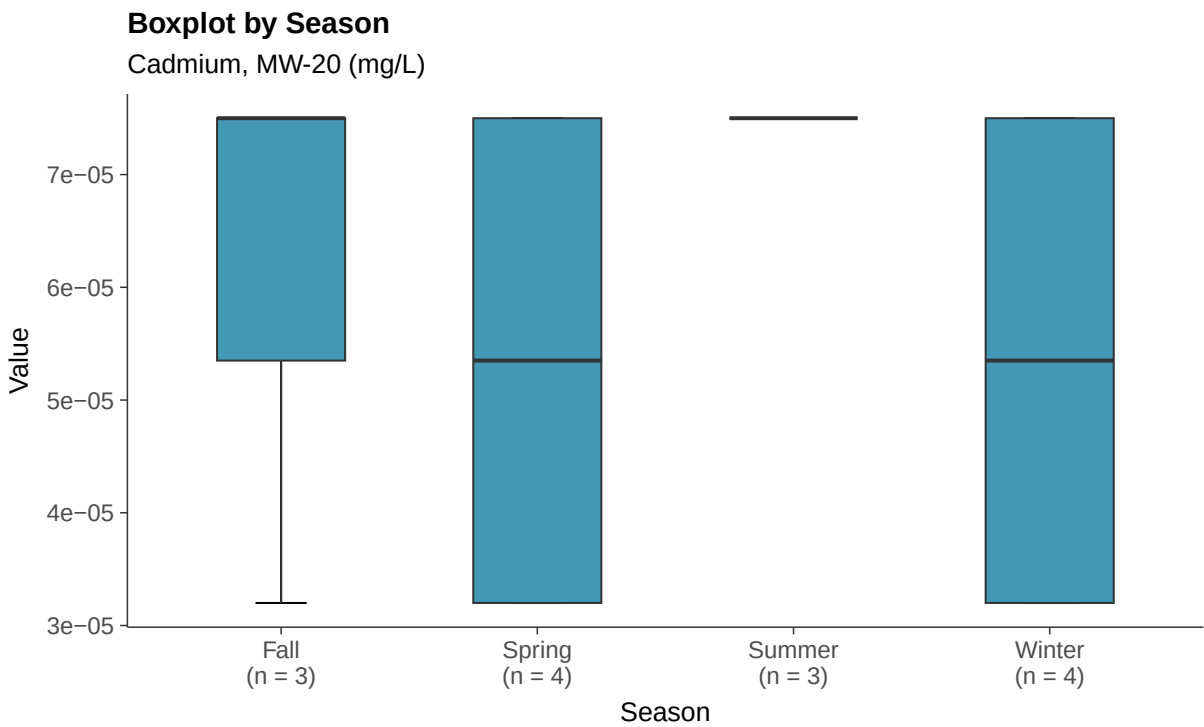
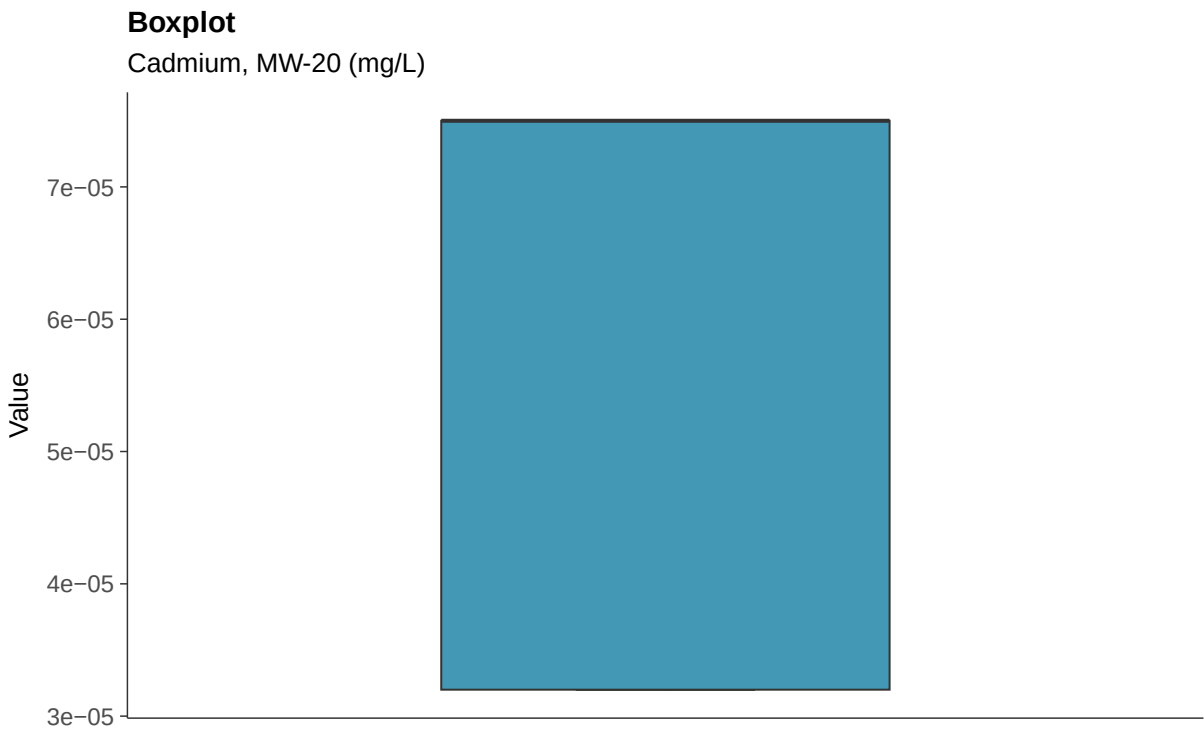


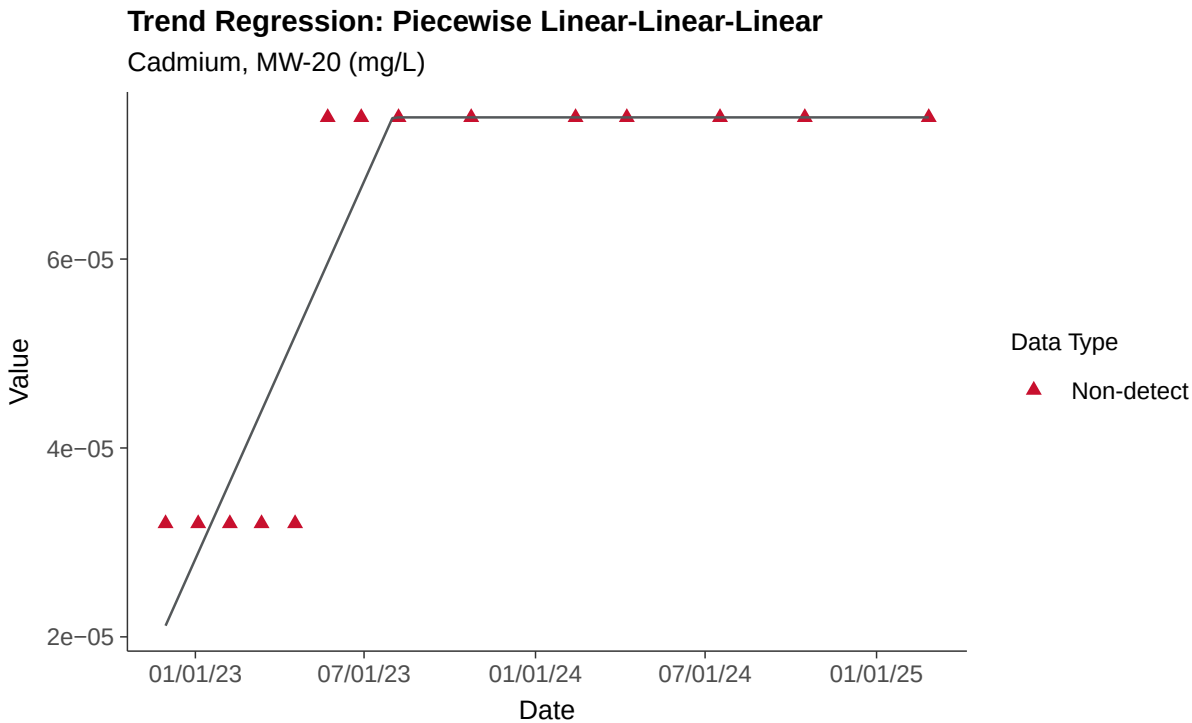
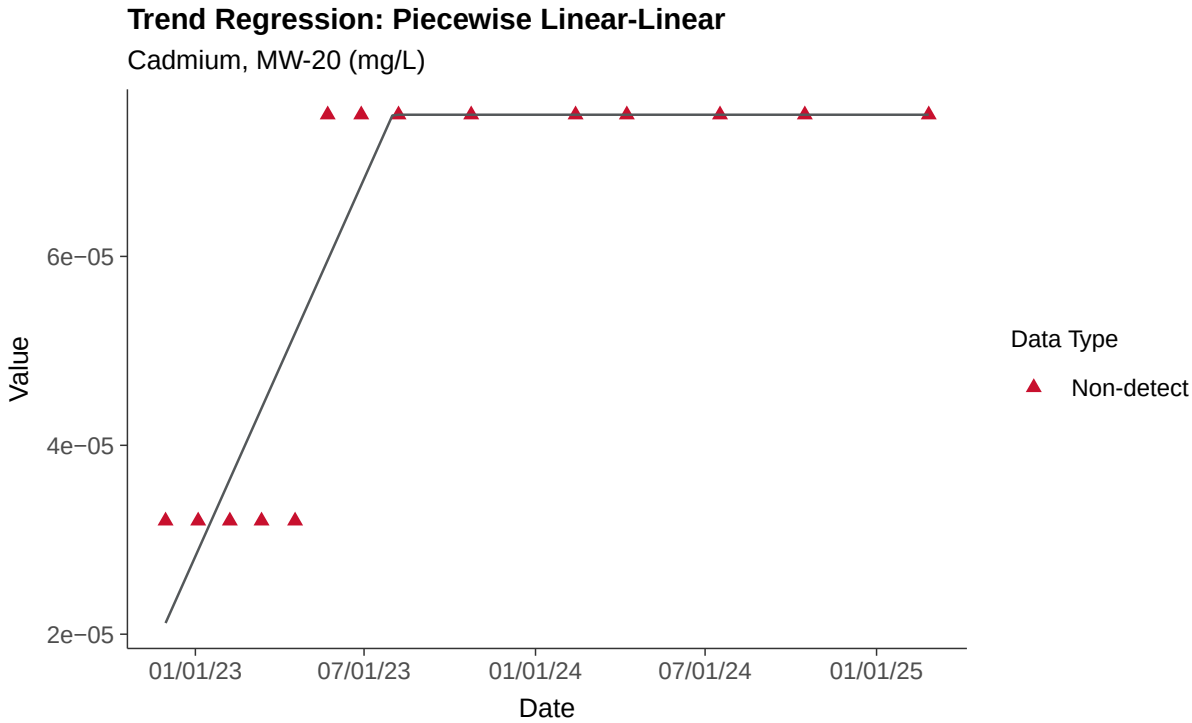


Appendix IV: Cadmium, MW-20

ID: 30_1_4_106



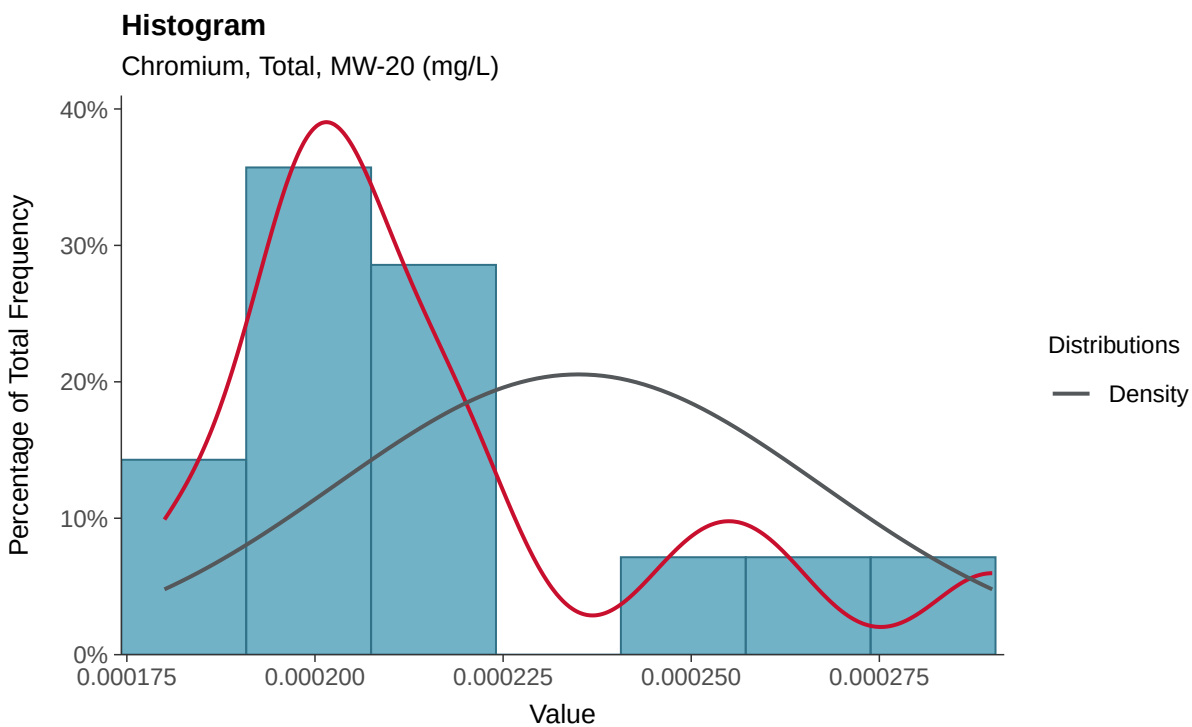
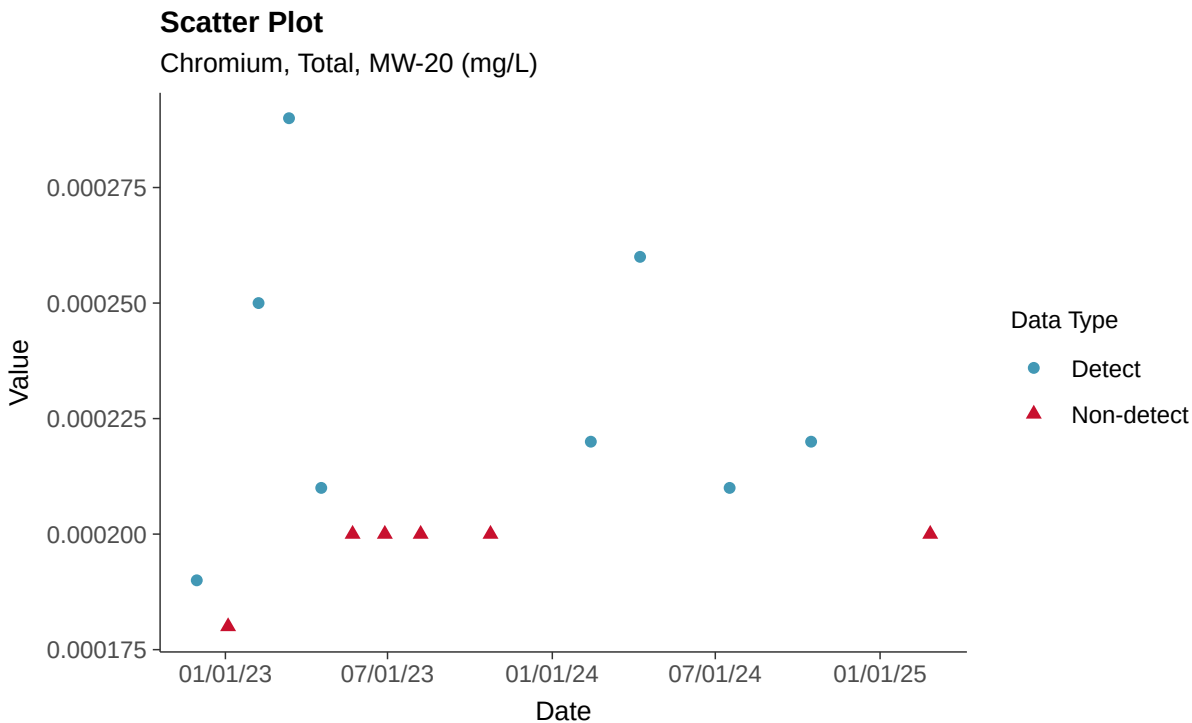


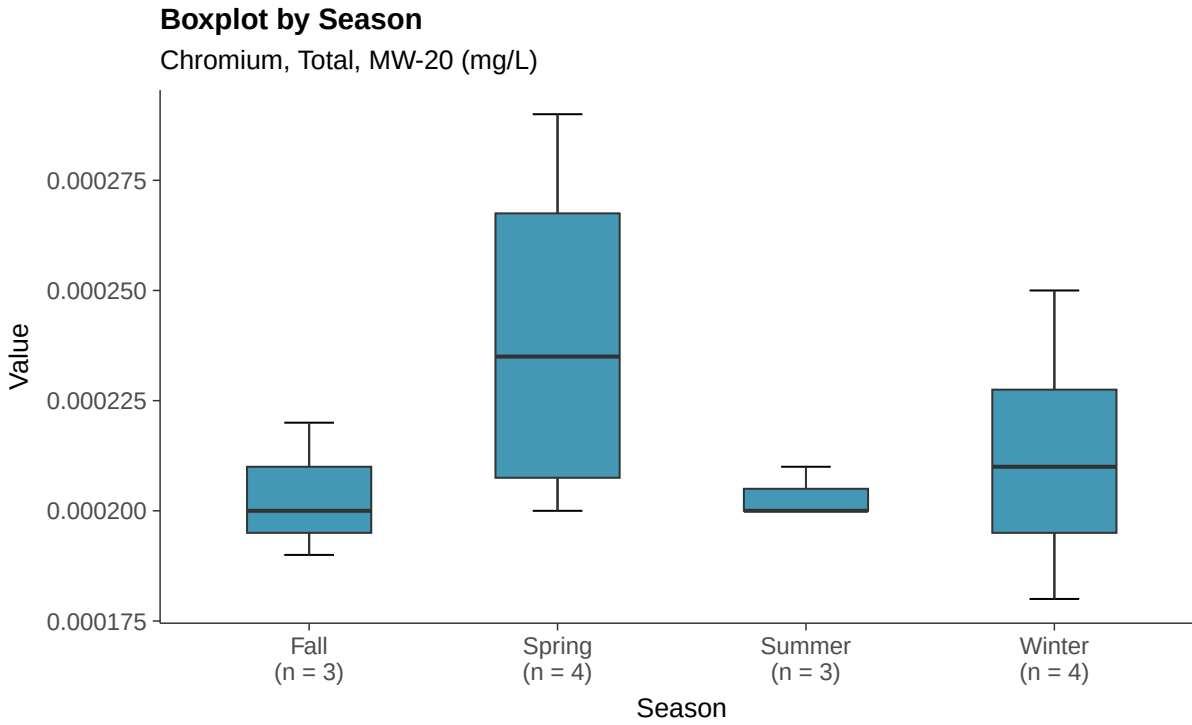
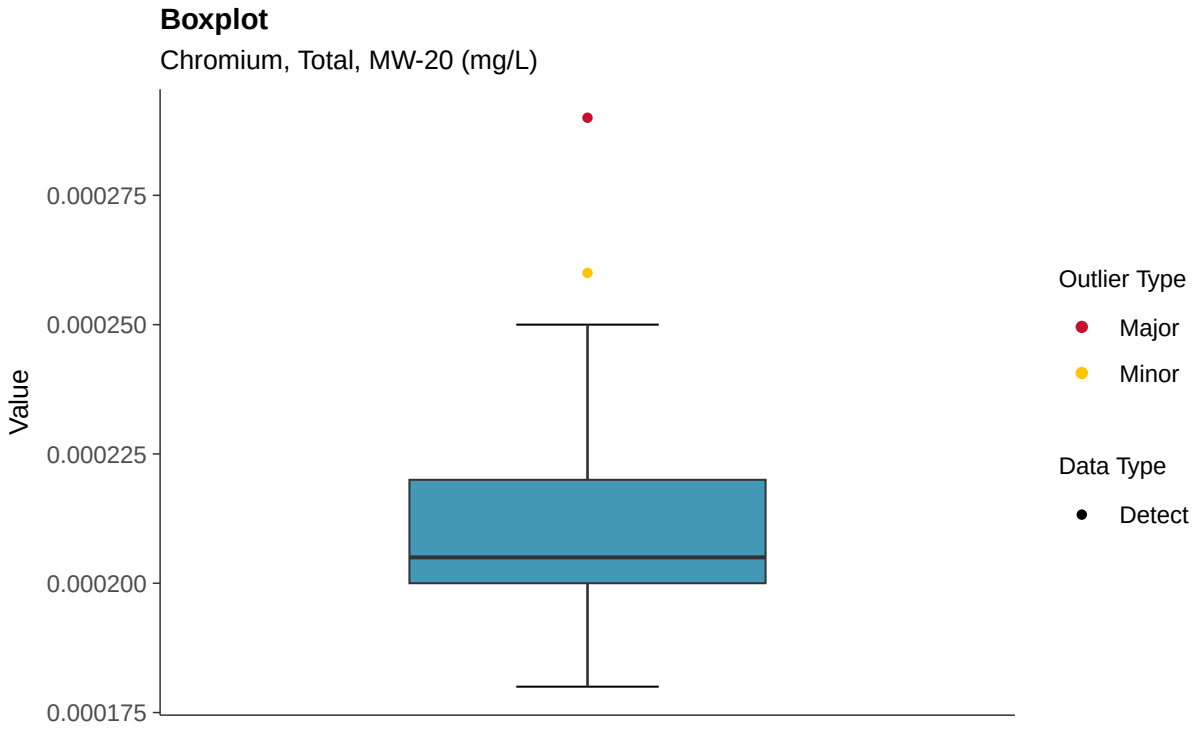




Appendix IV: Chromium, Total, MW-20

ID: 30_1_4_109

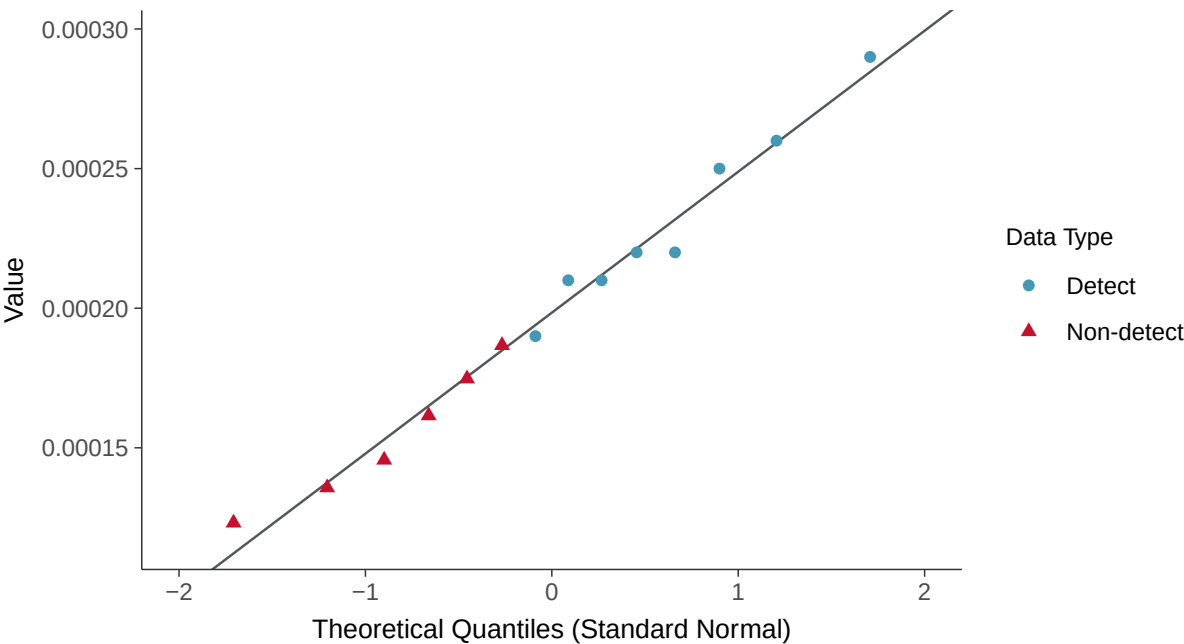






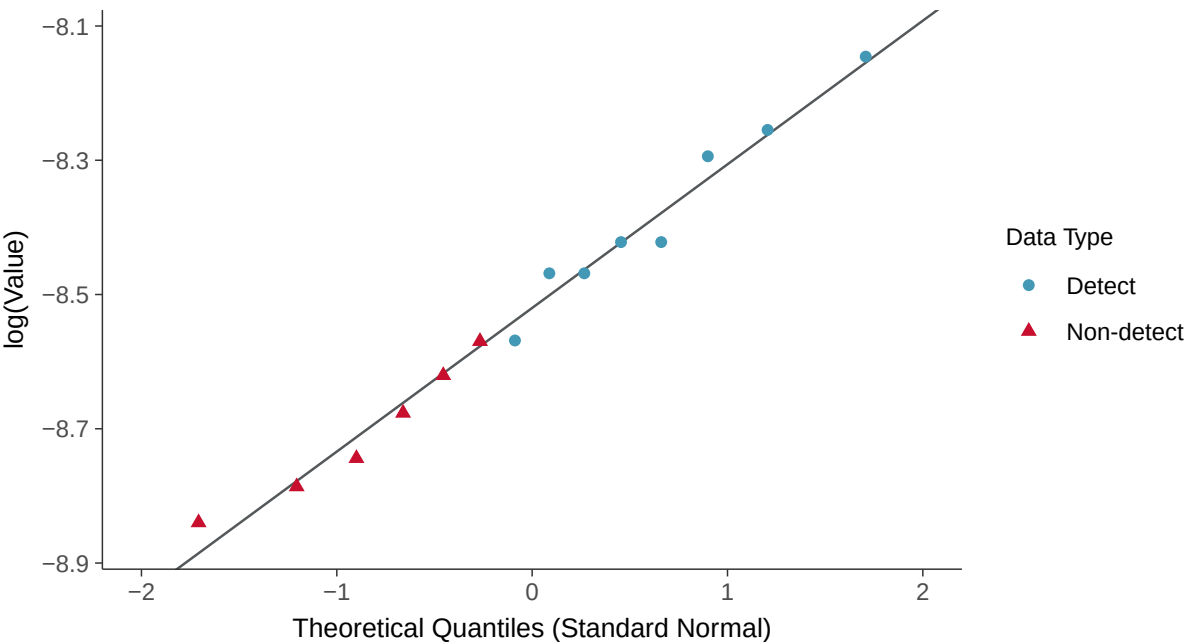
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-20 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

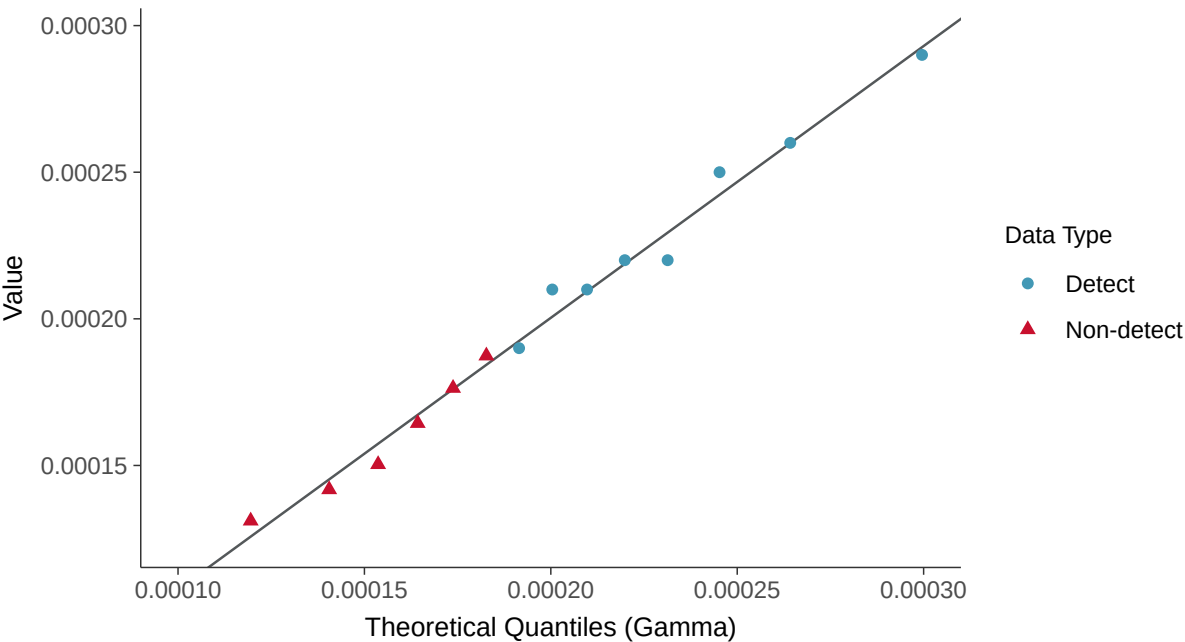
Chromium, Total, MW-20 (mg/L)





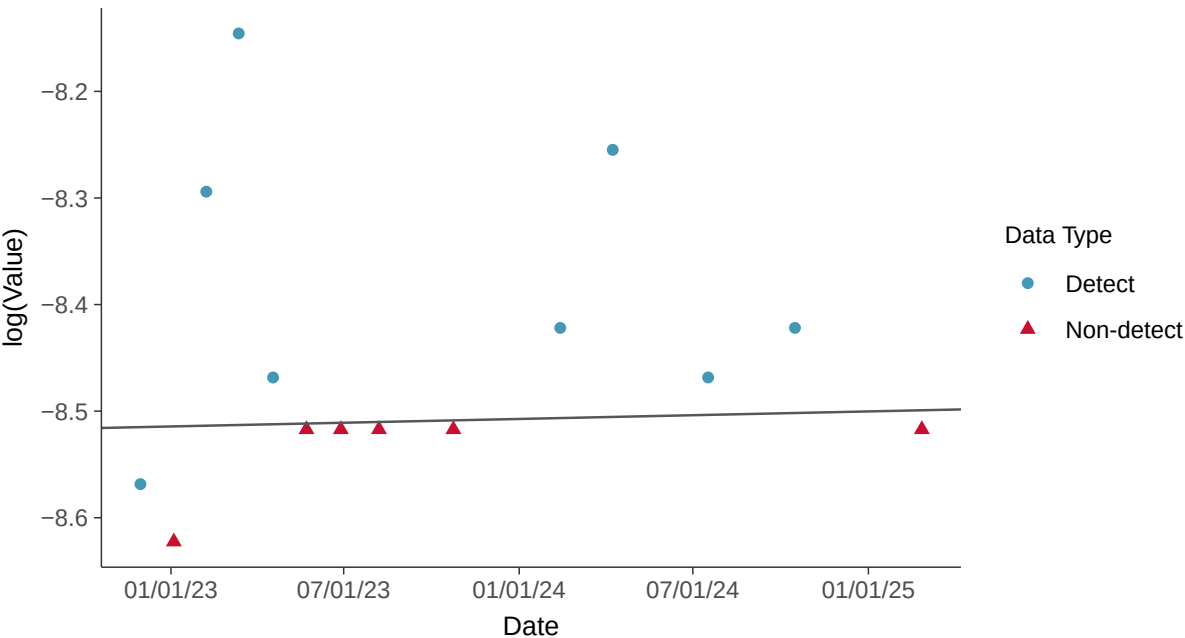
Gamma Q-Q plot using ROS Imputed Estimates

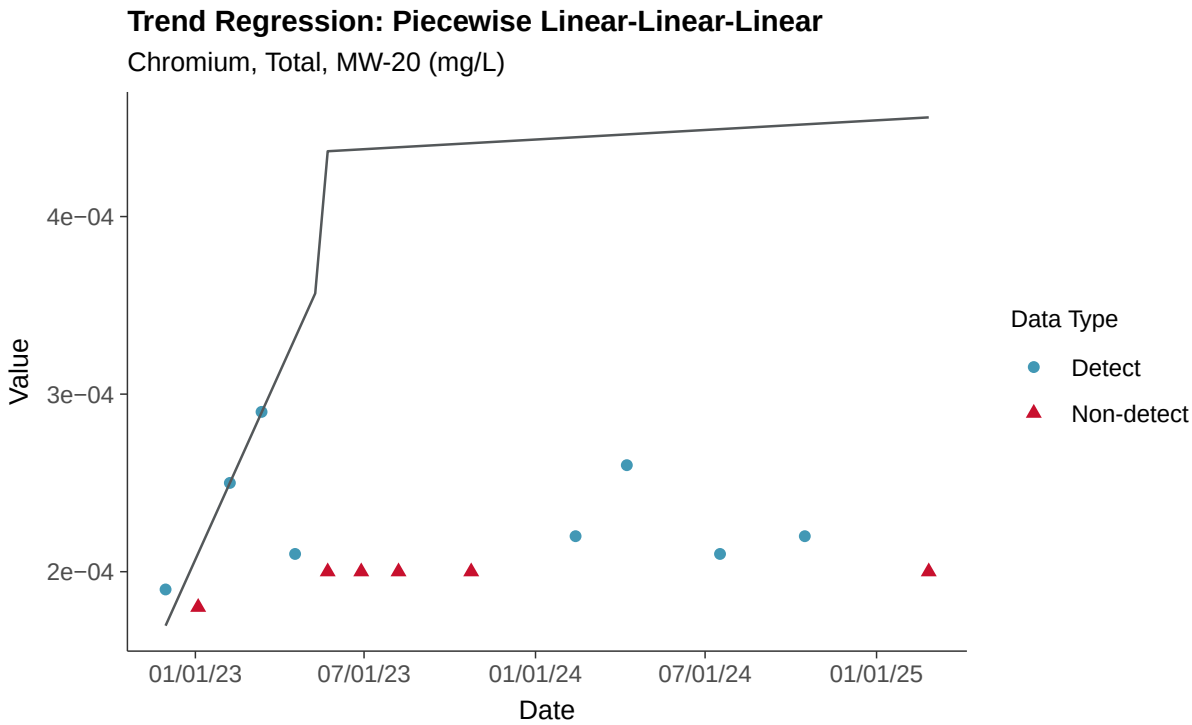
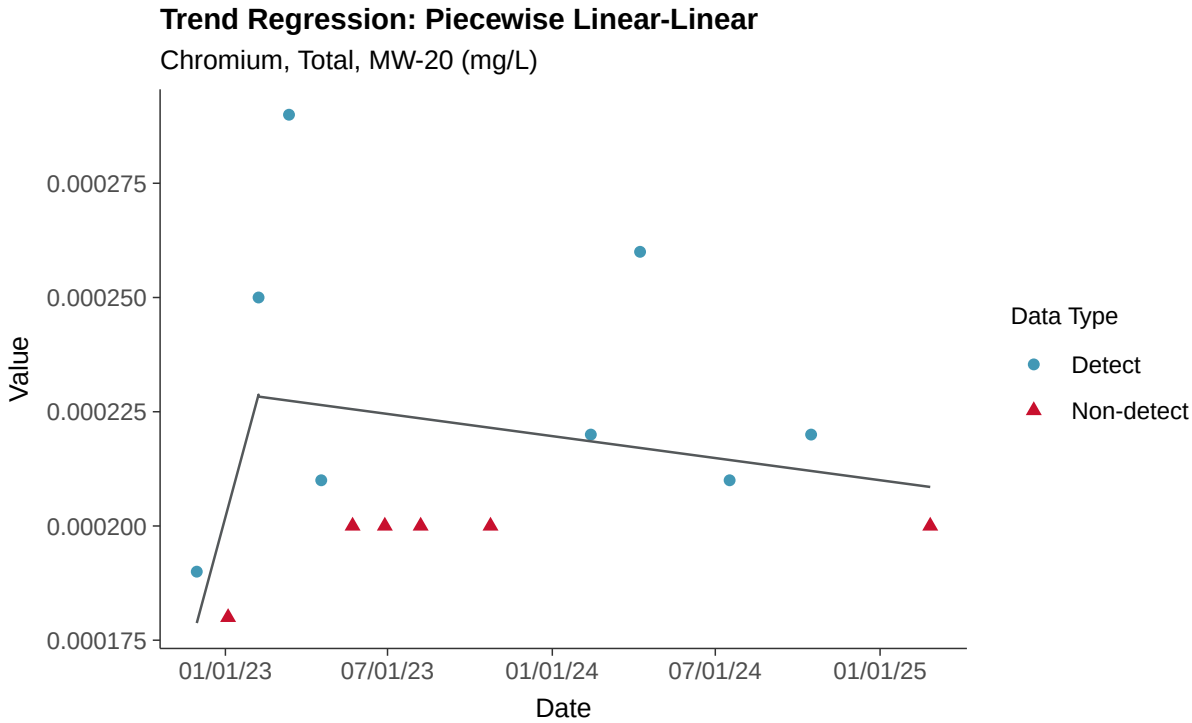
Chromium, Total, MW-20 (mg/L)



Trend Regression: Lognormal MLE

Chromium, Total, MW-20 (mg/L)

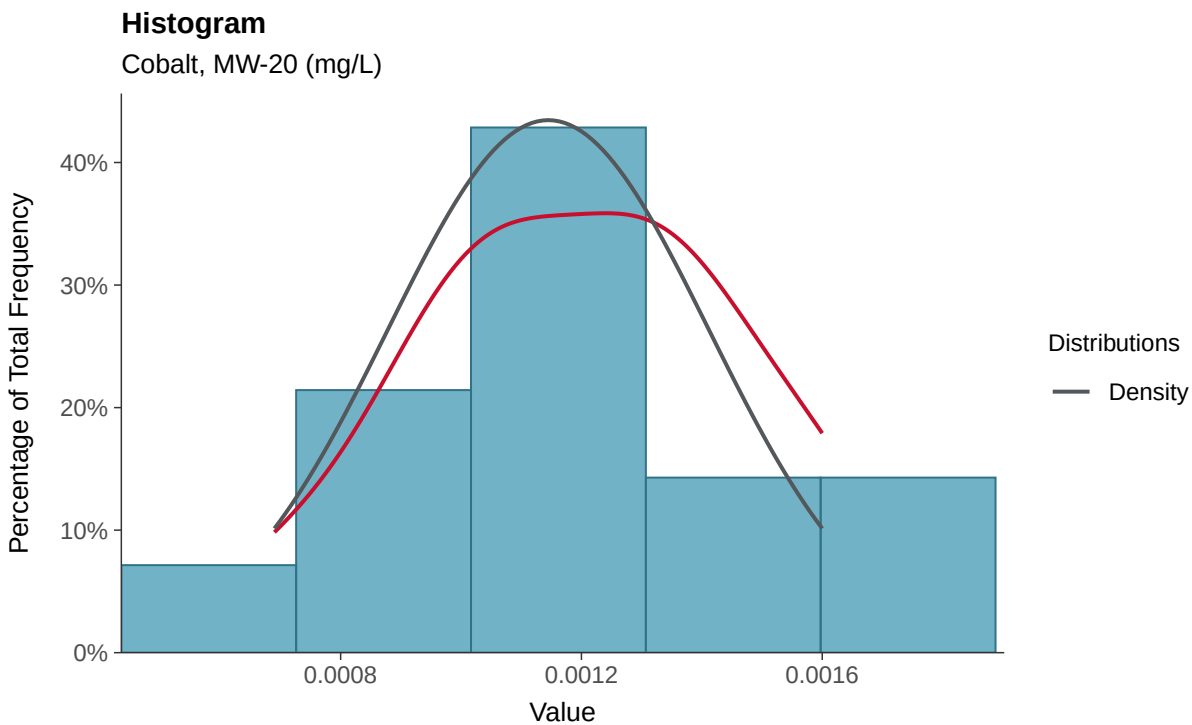
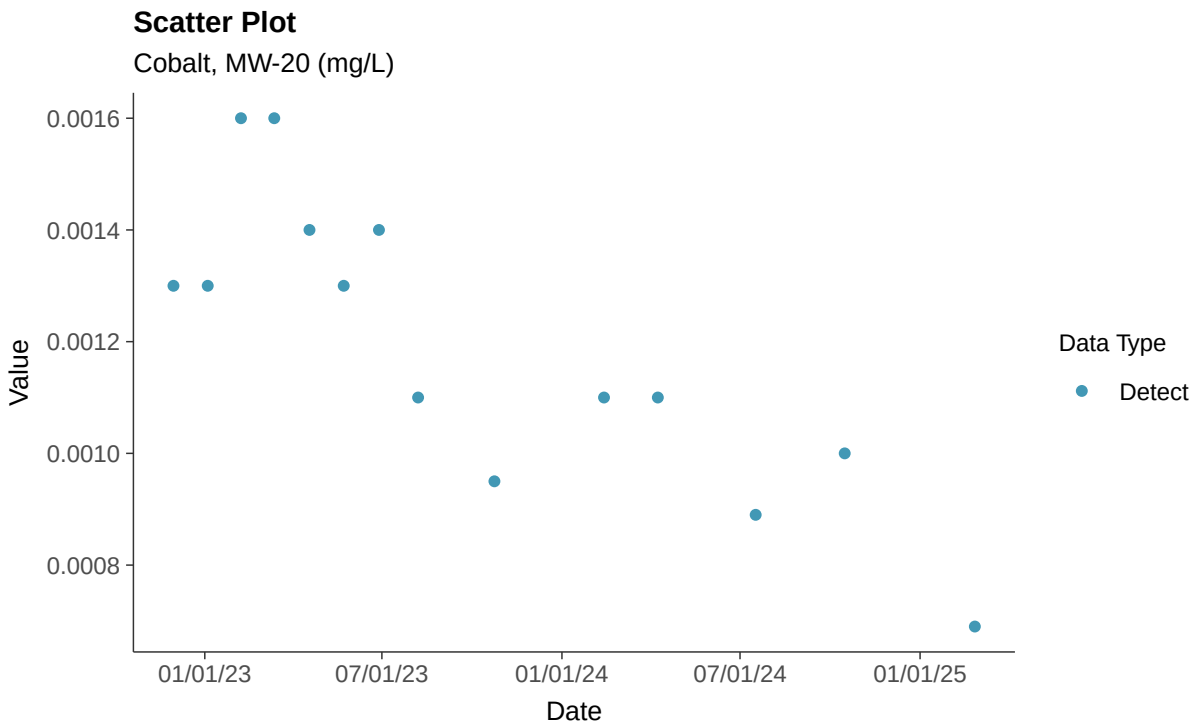


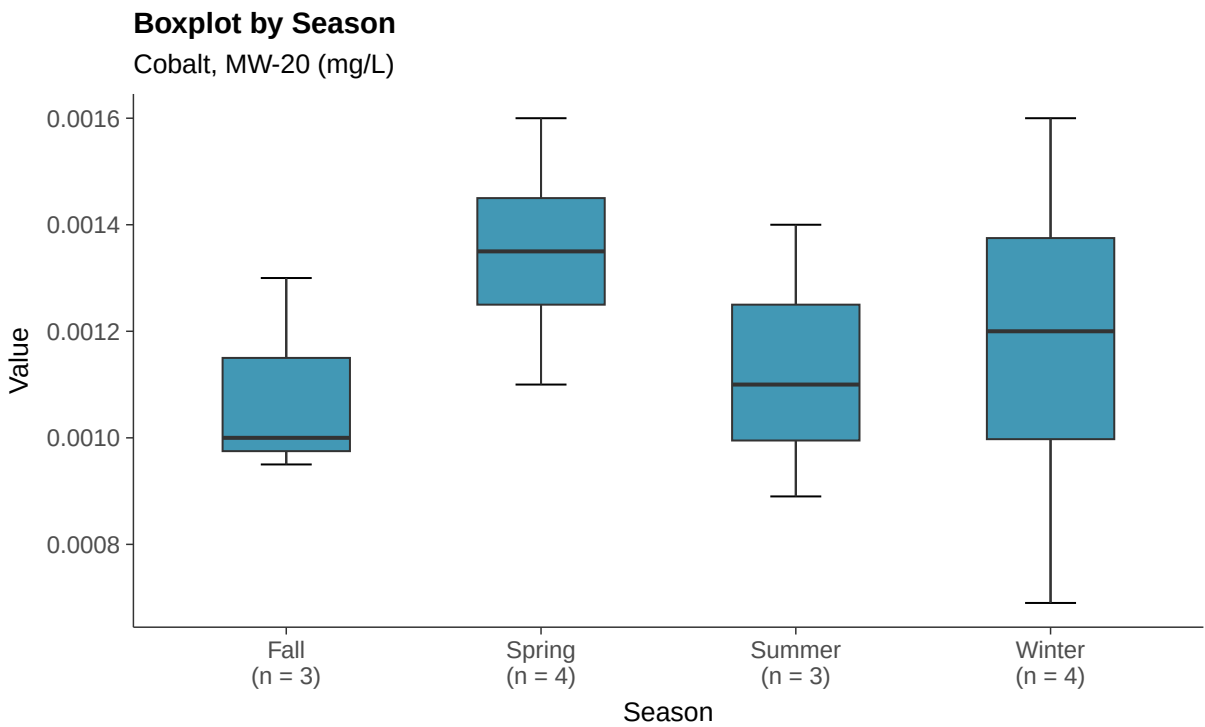
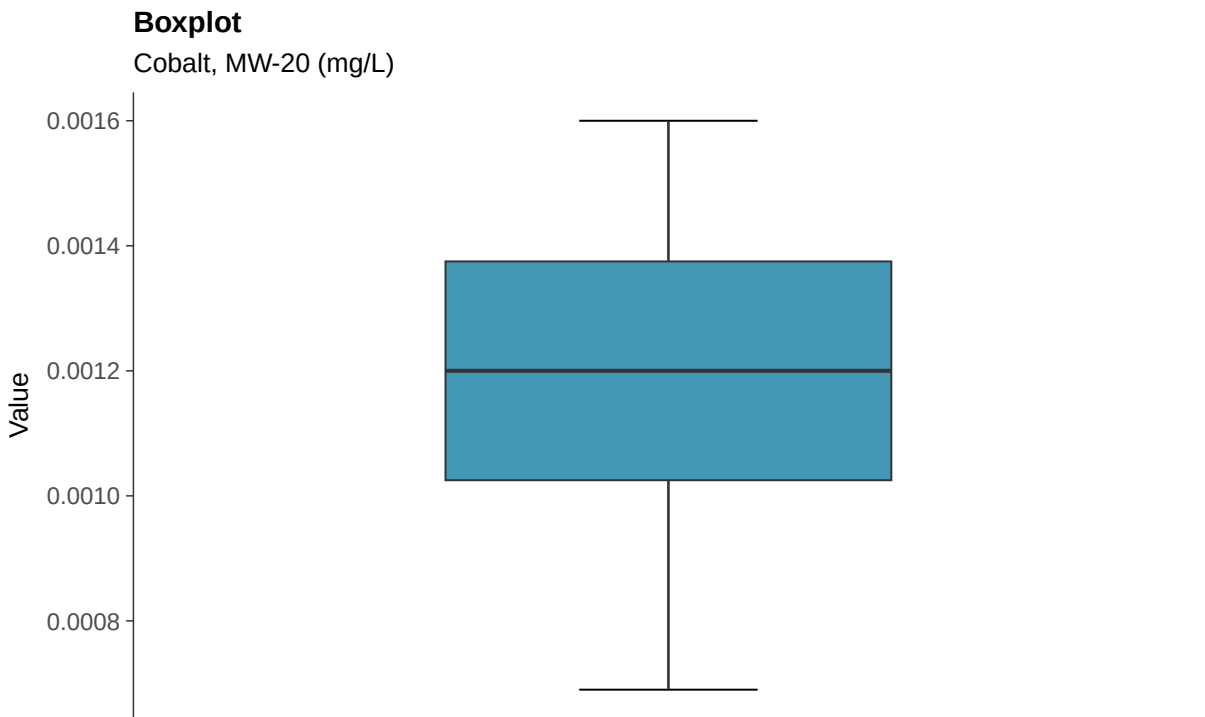


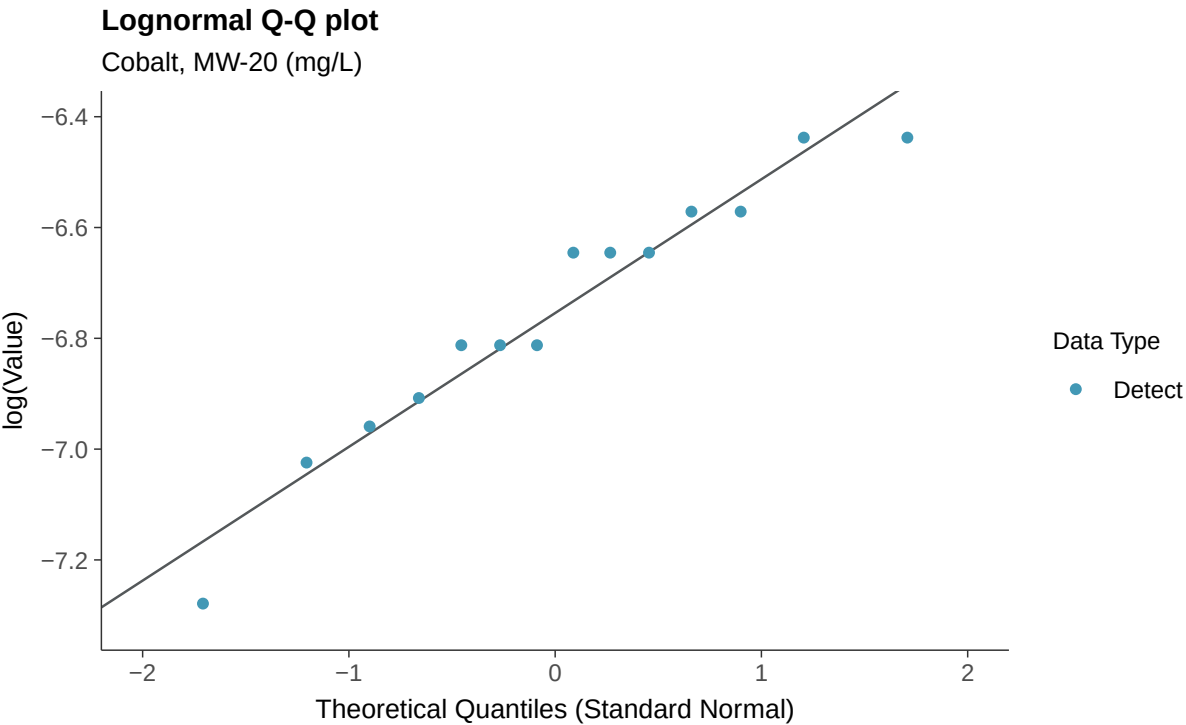
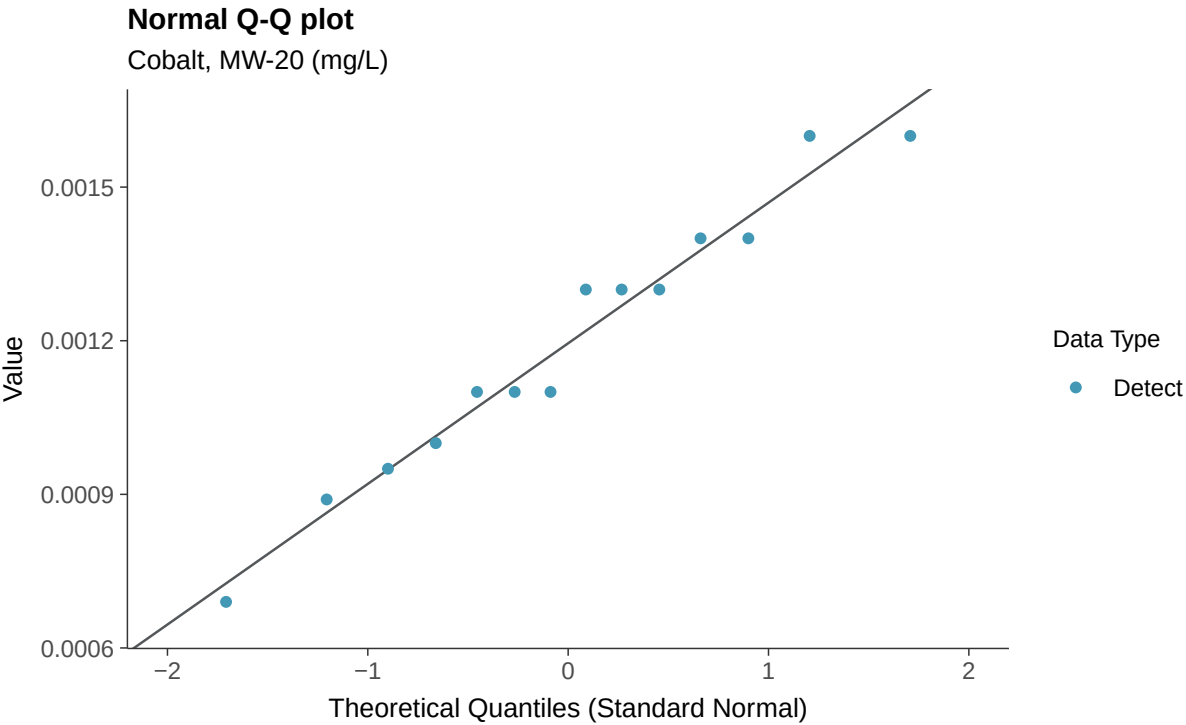


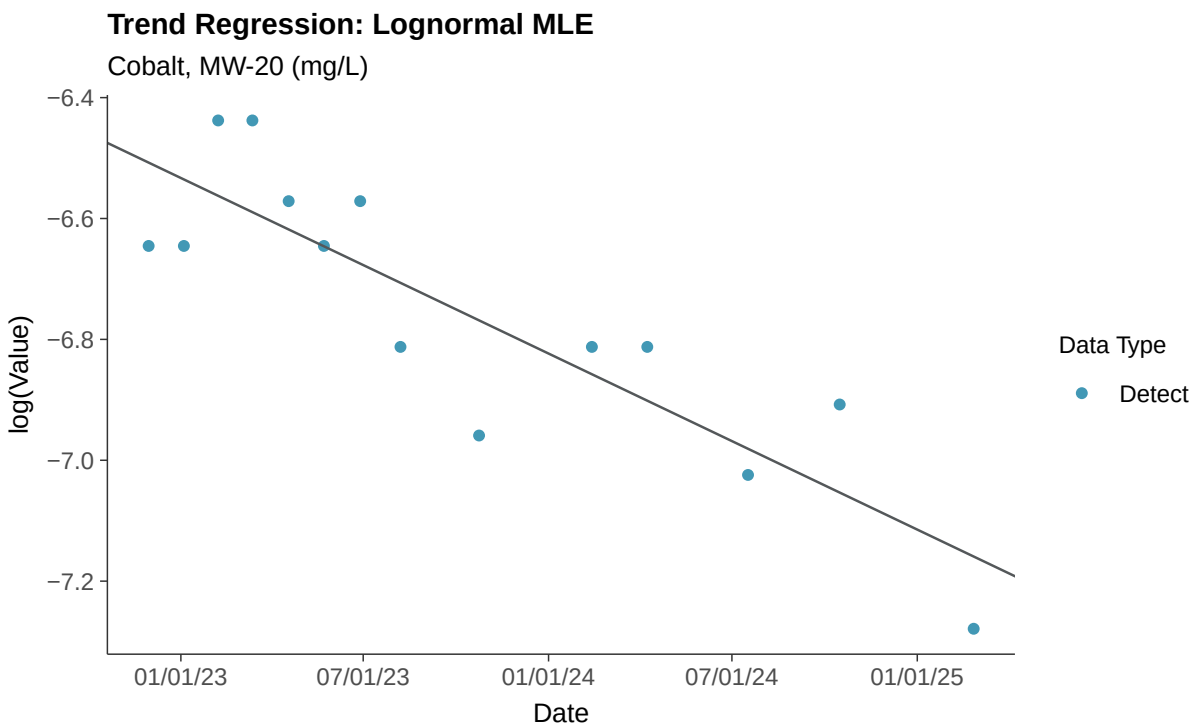
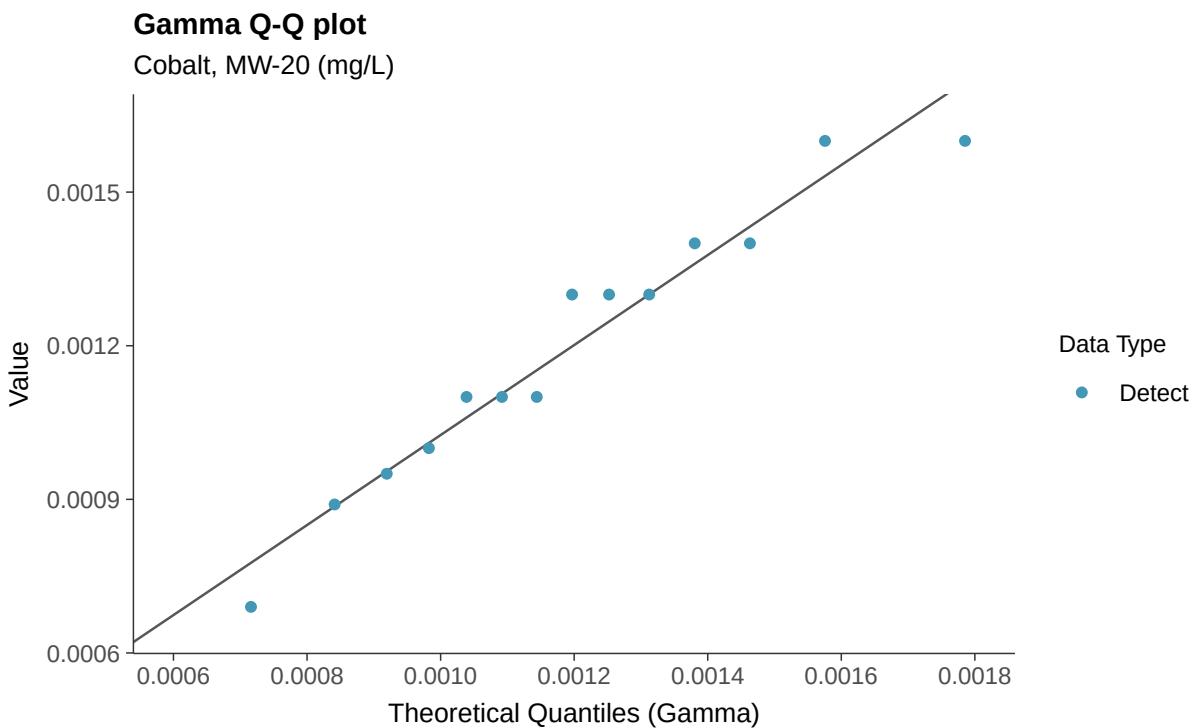
Appendix IV: Cobalt, MW-20

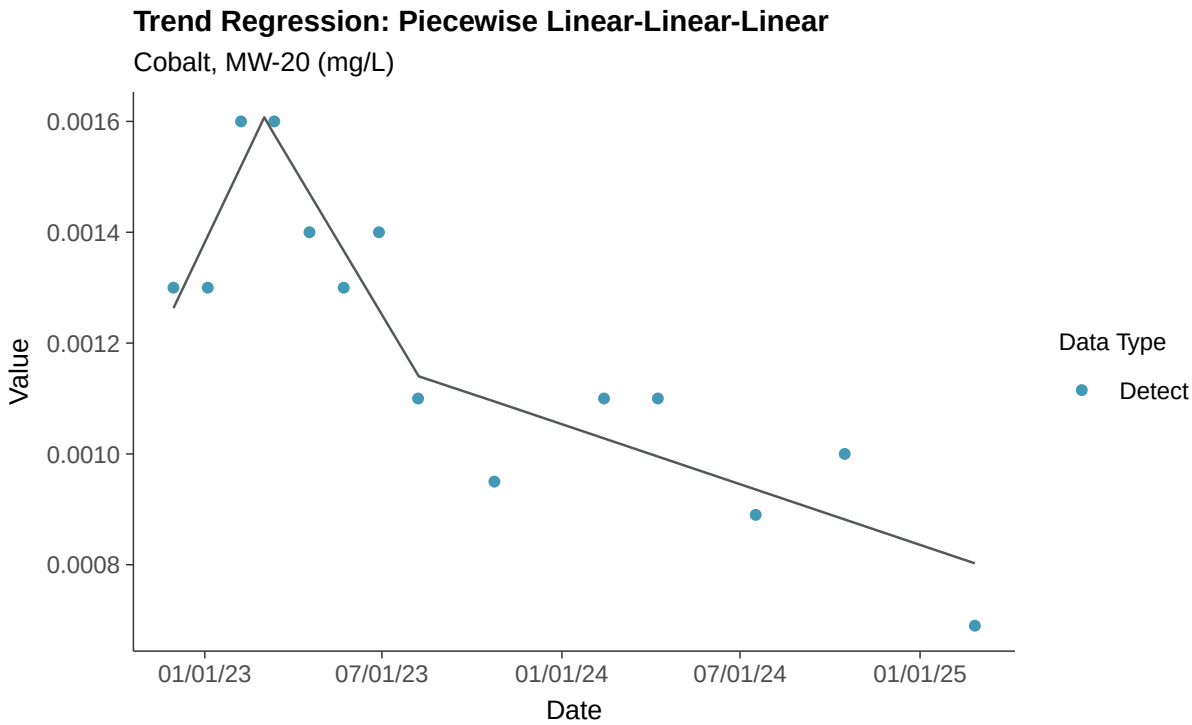
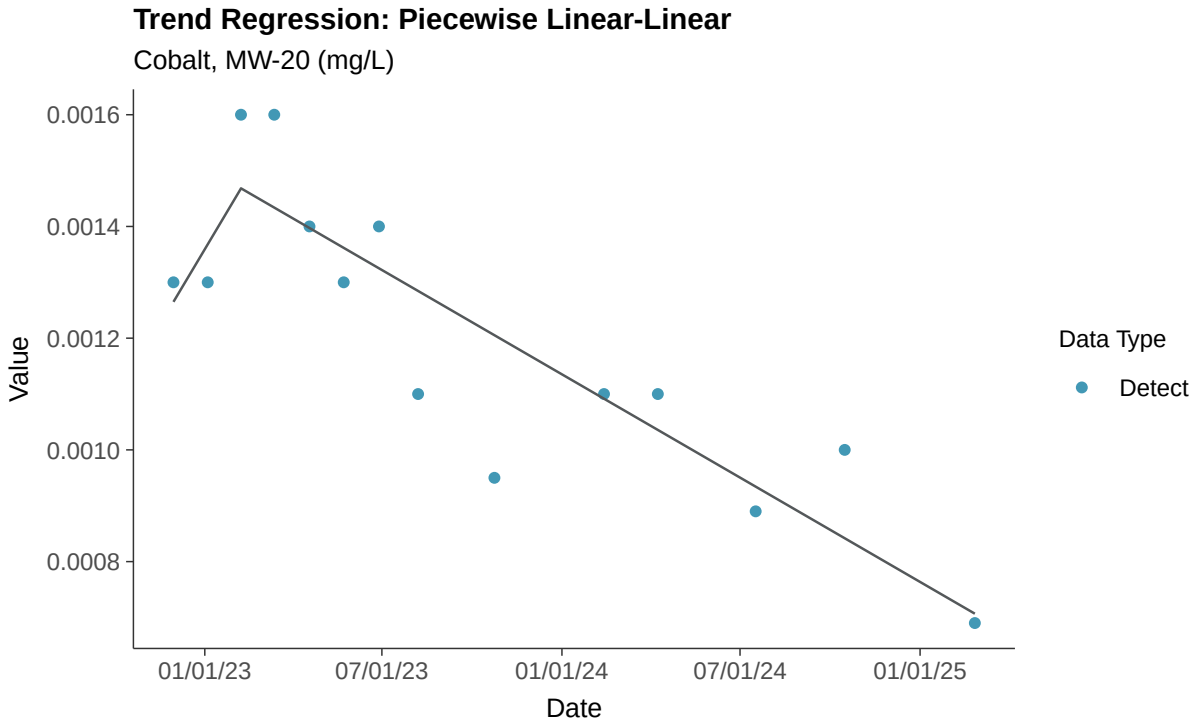
ID: 30_1_4_110







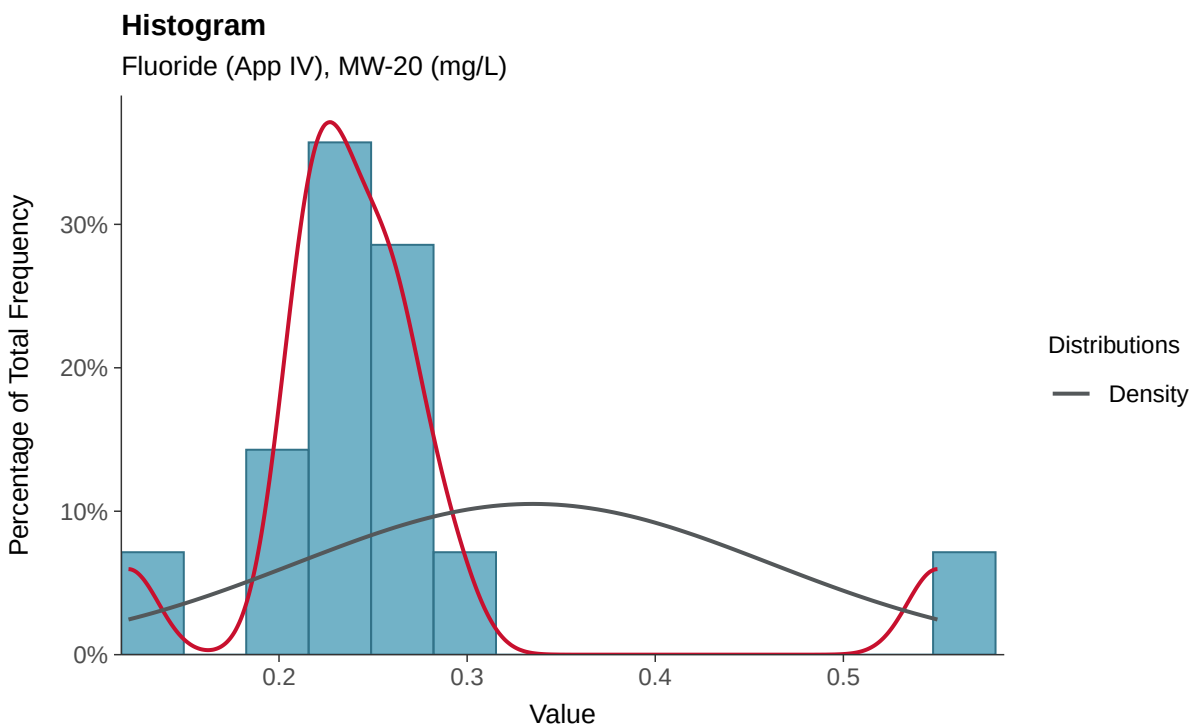
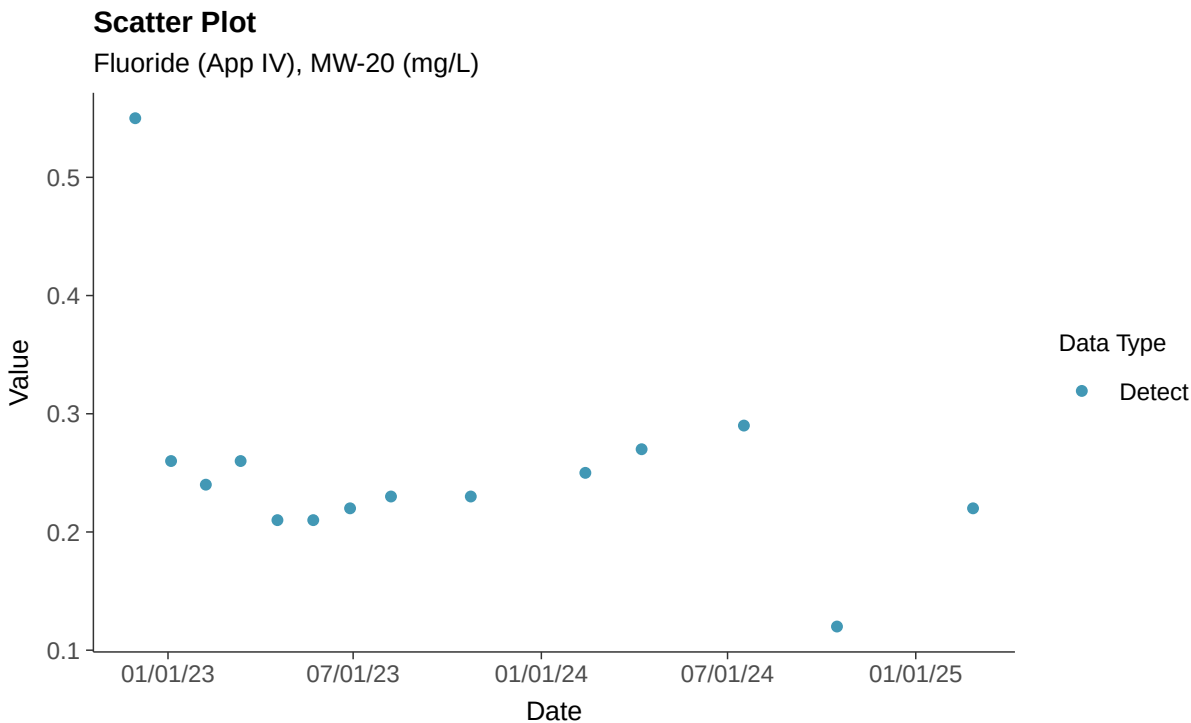


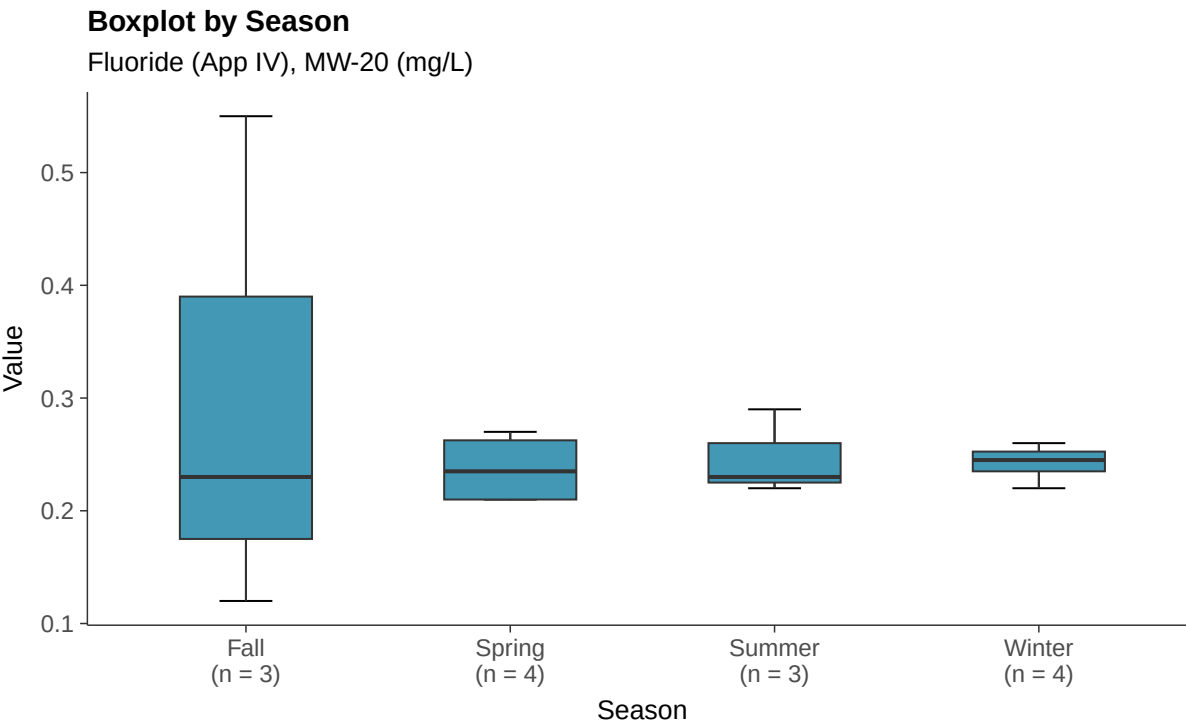
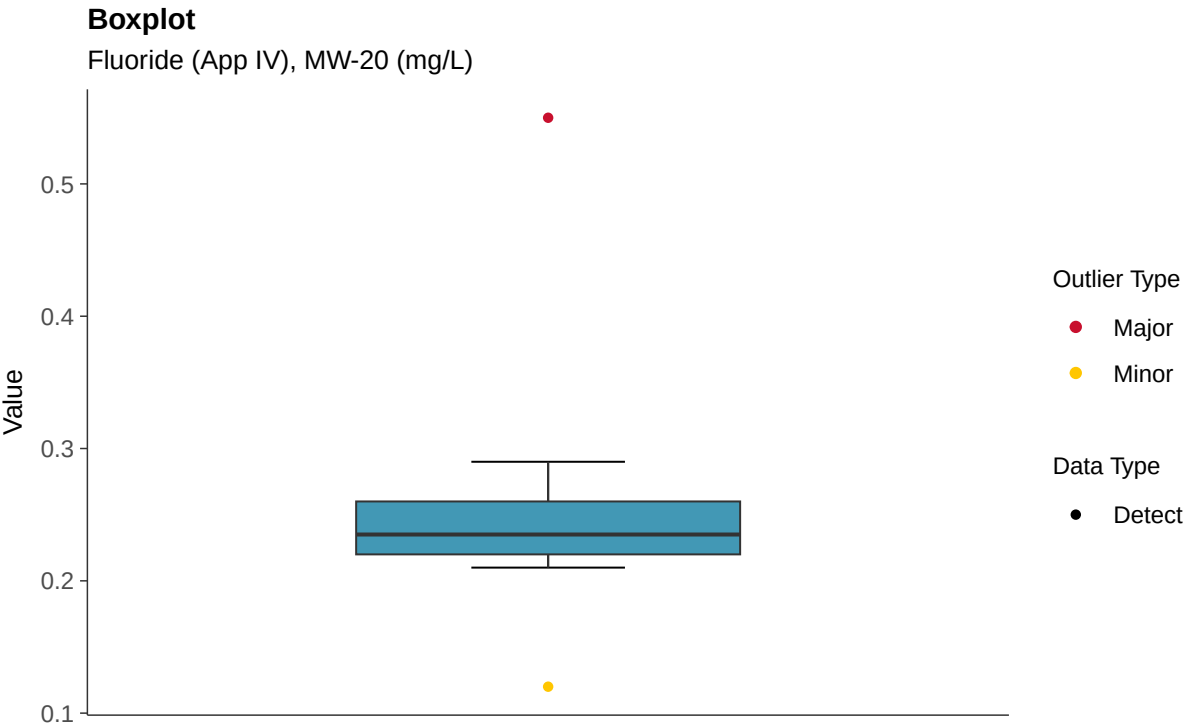


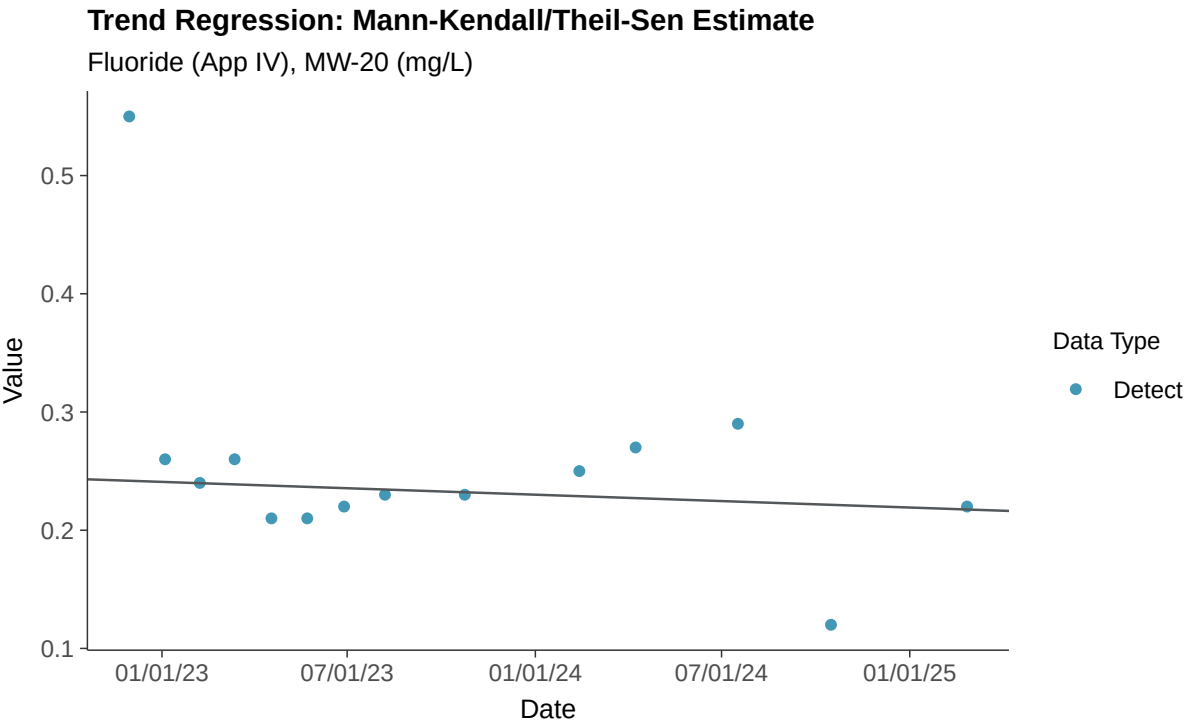
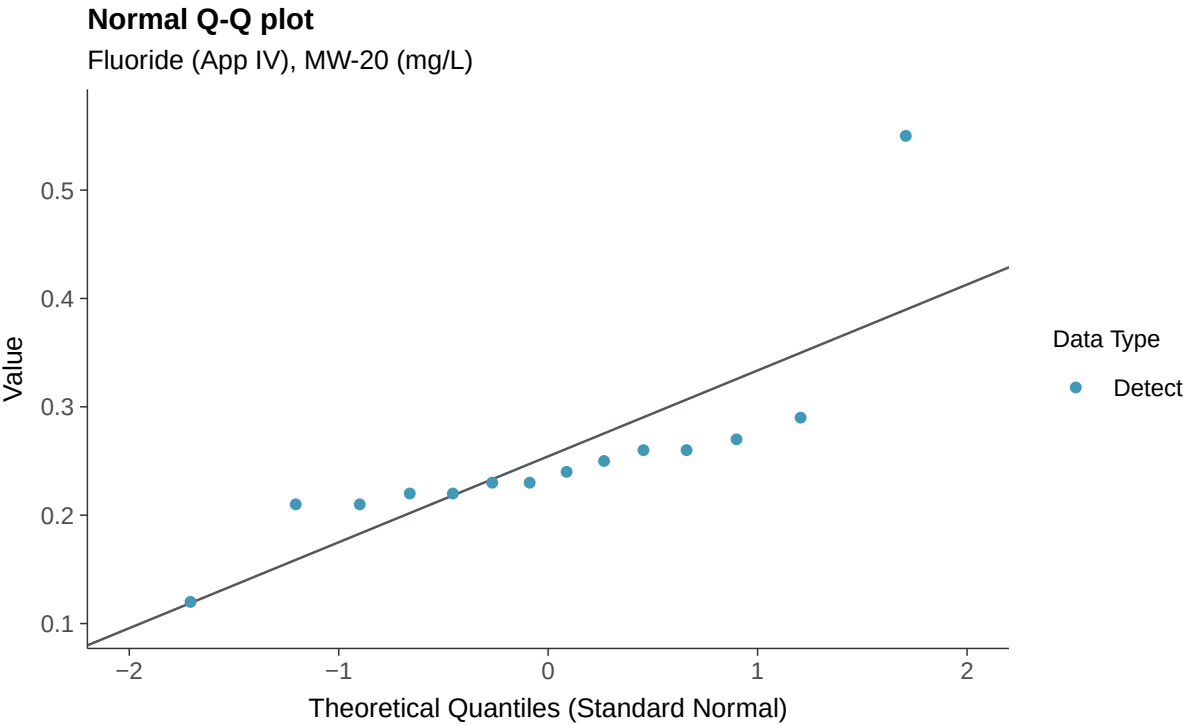


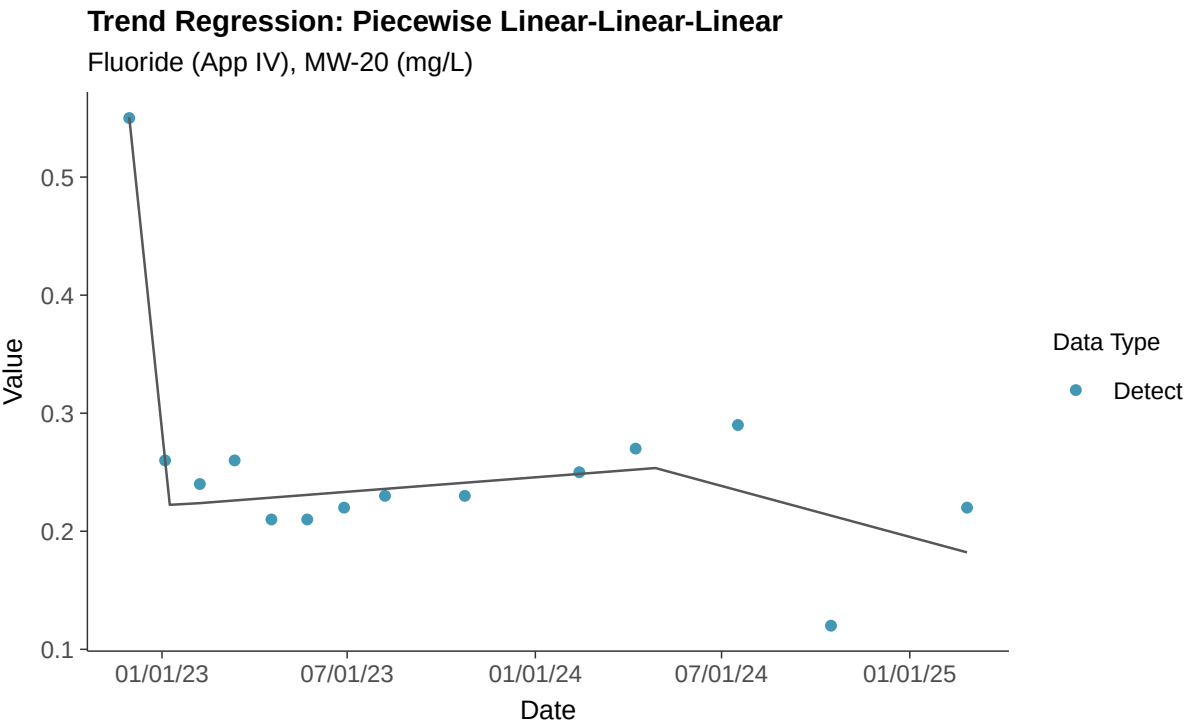
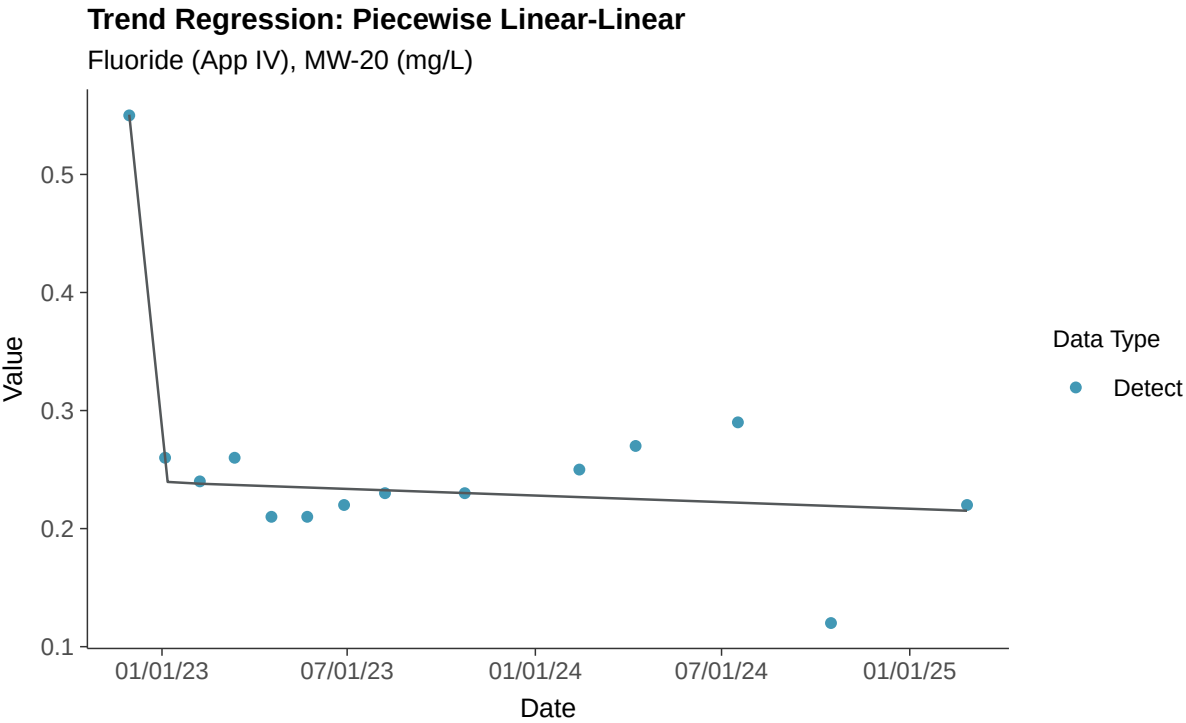
Appendix IV: Fluoride (App IV), MW-20

ID: 30_1_4_113





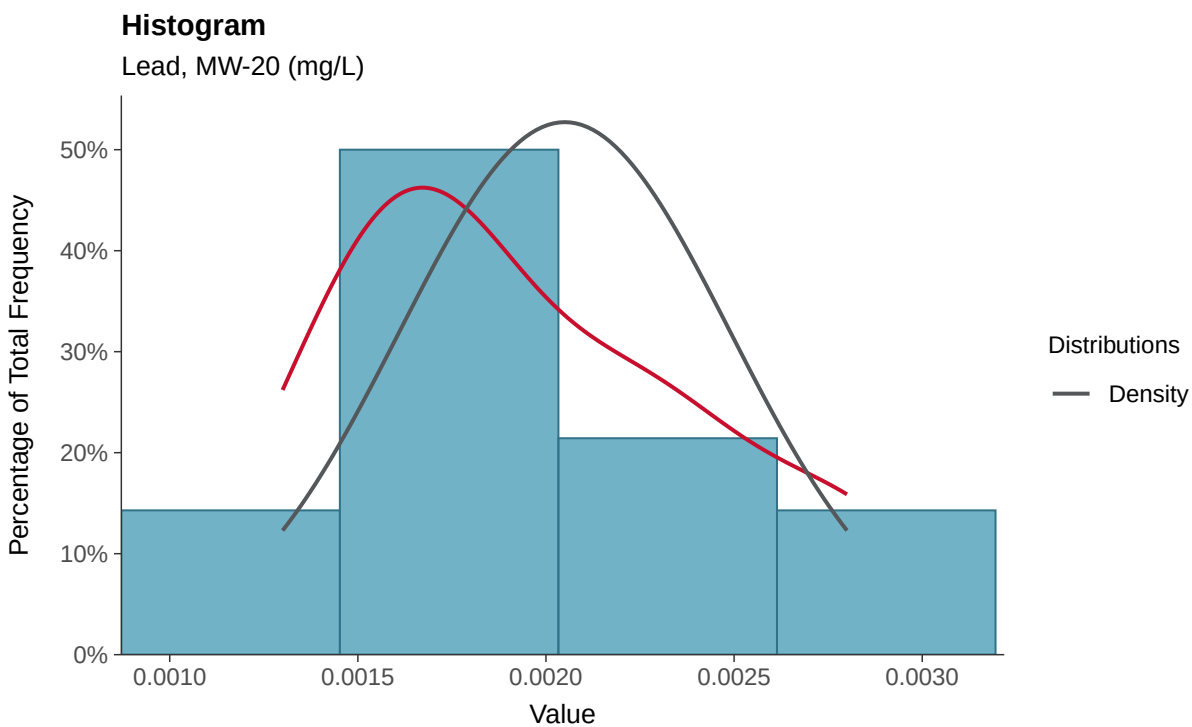
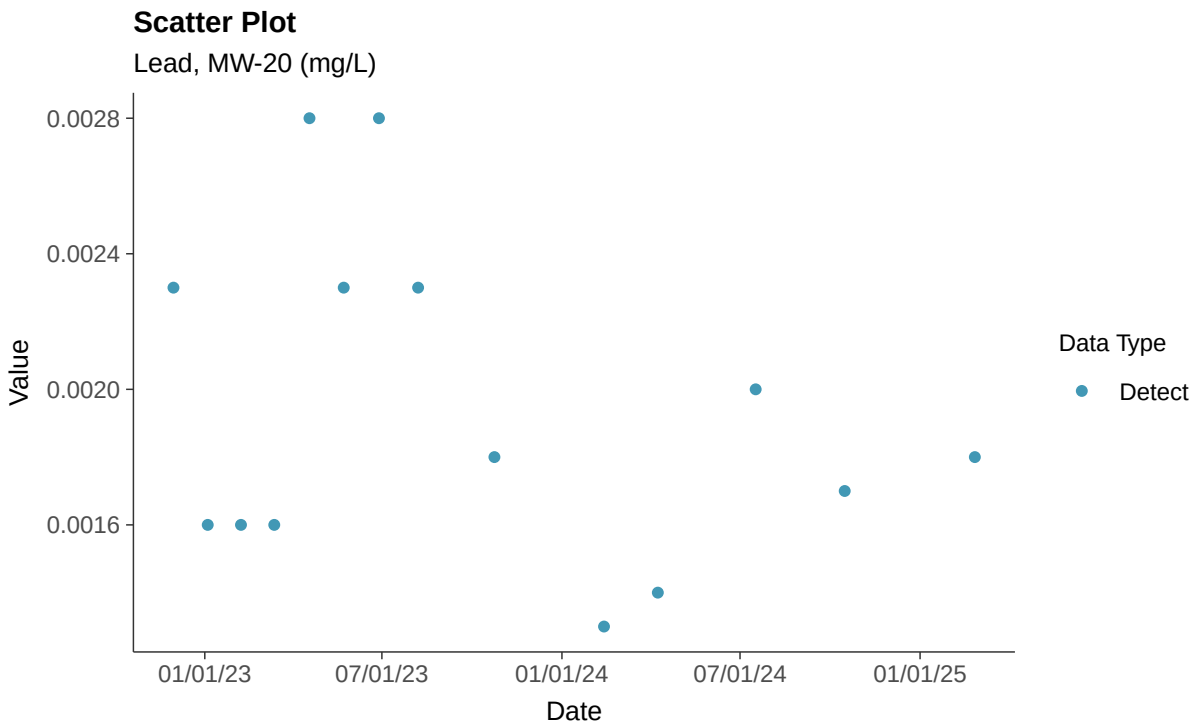


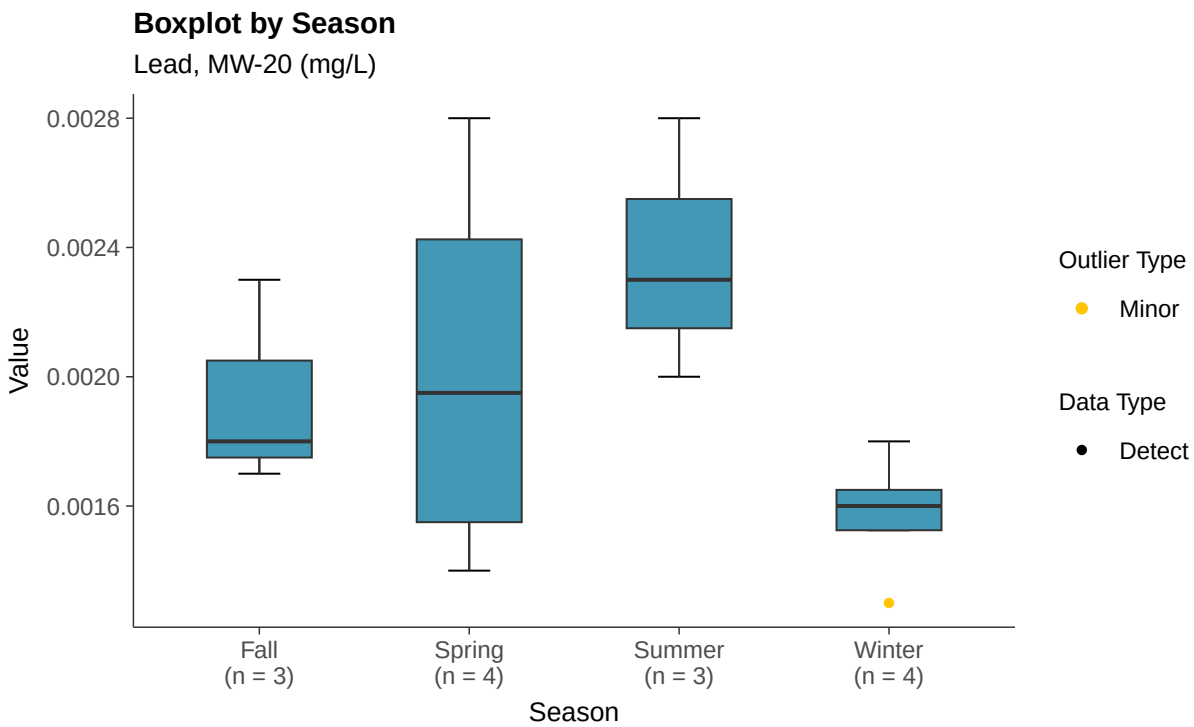
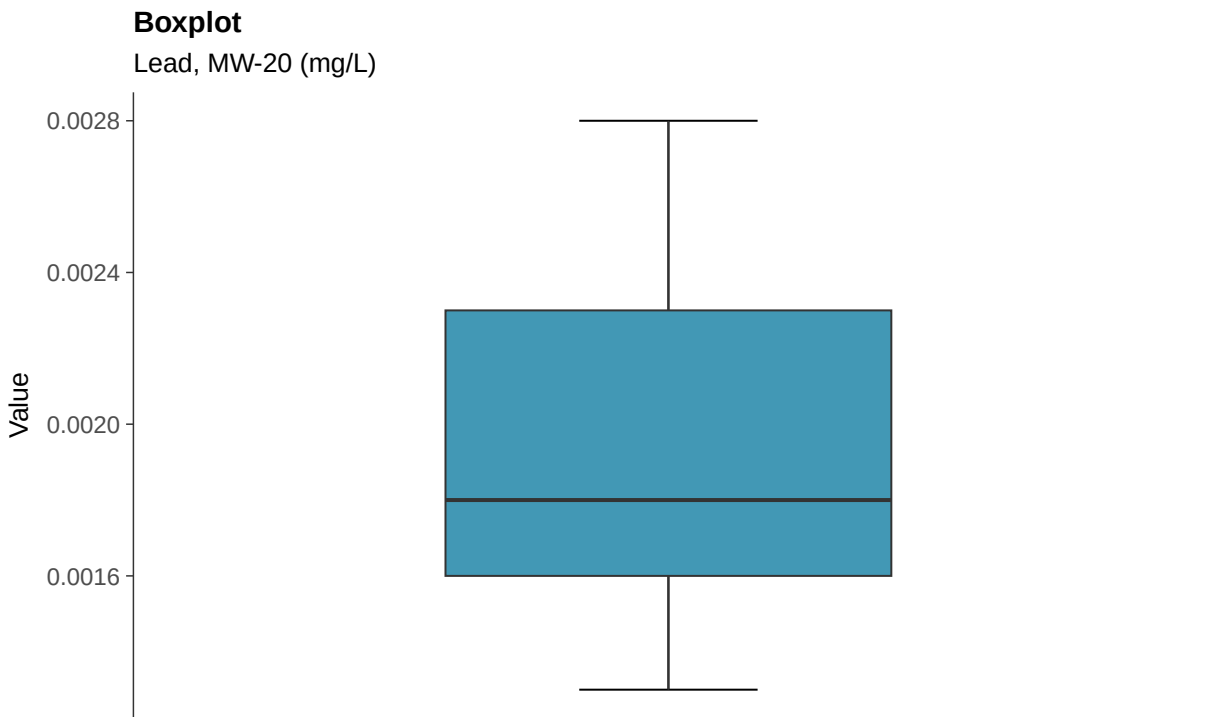


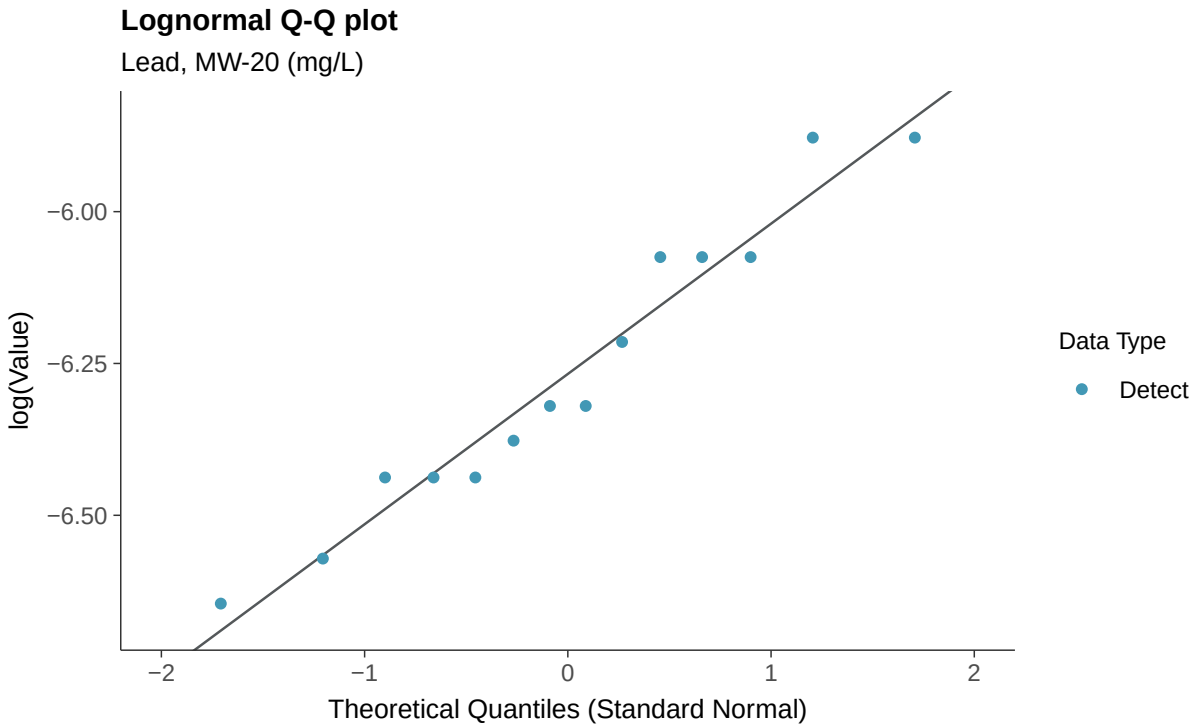
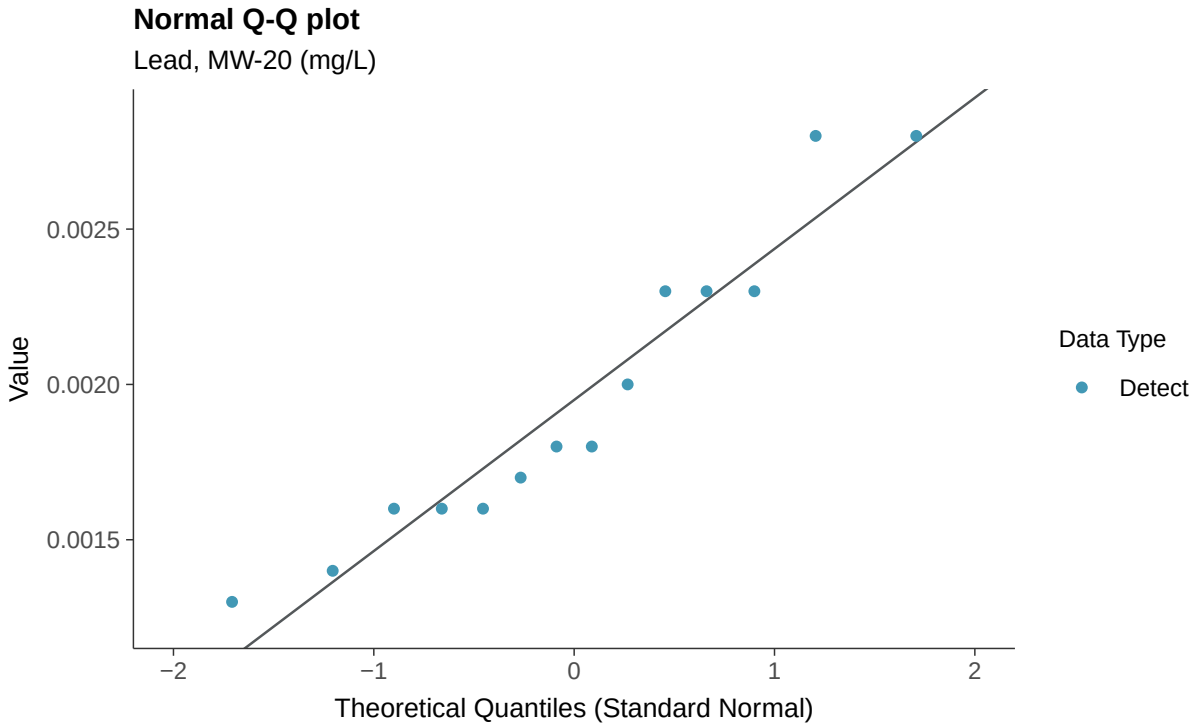


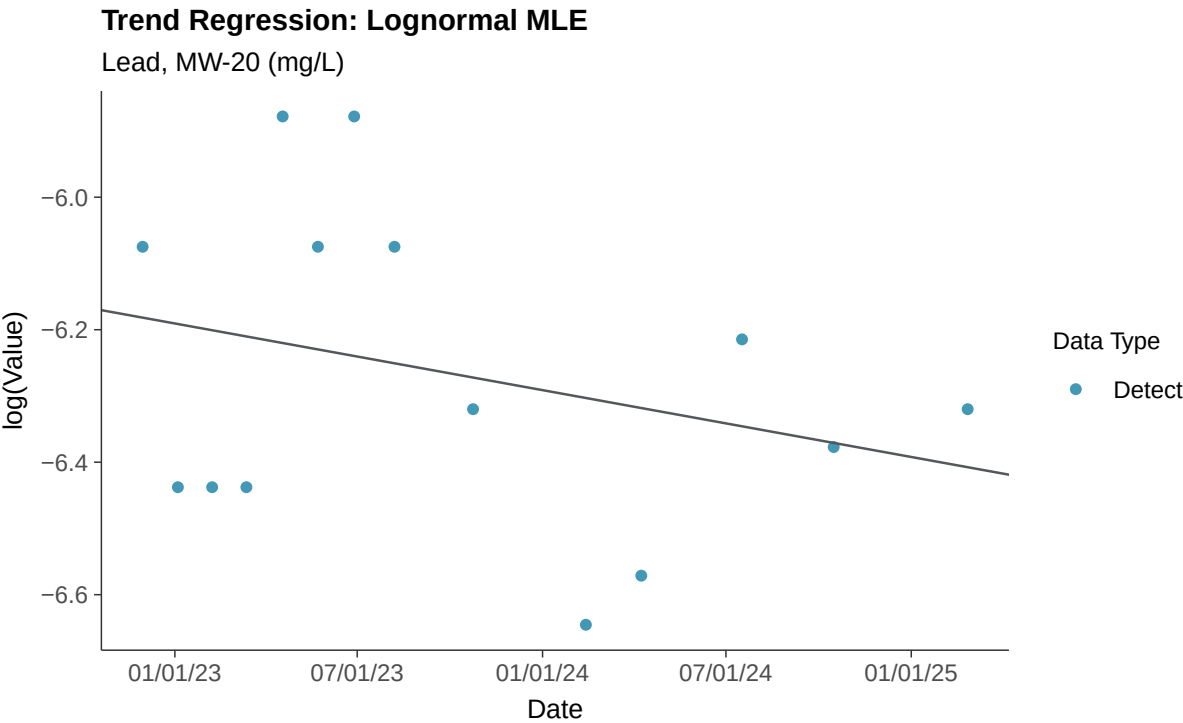
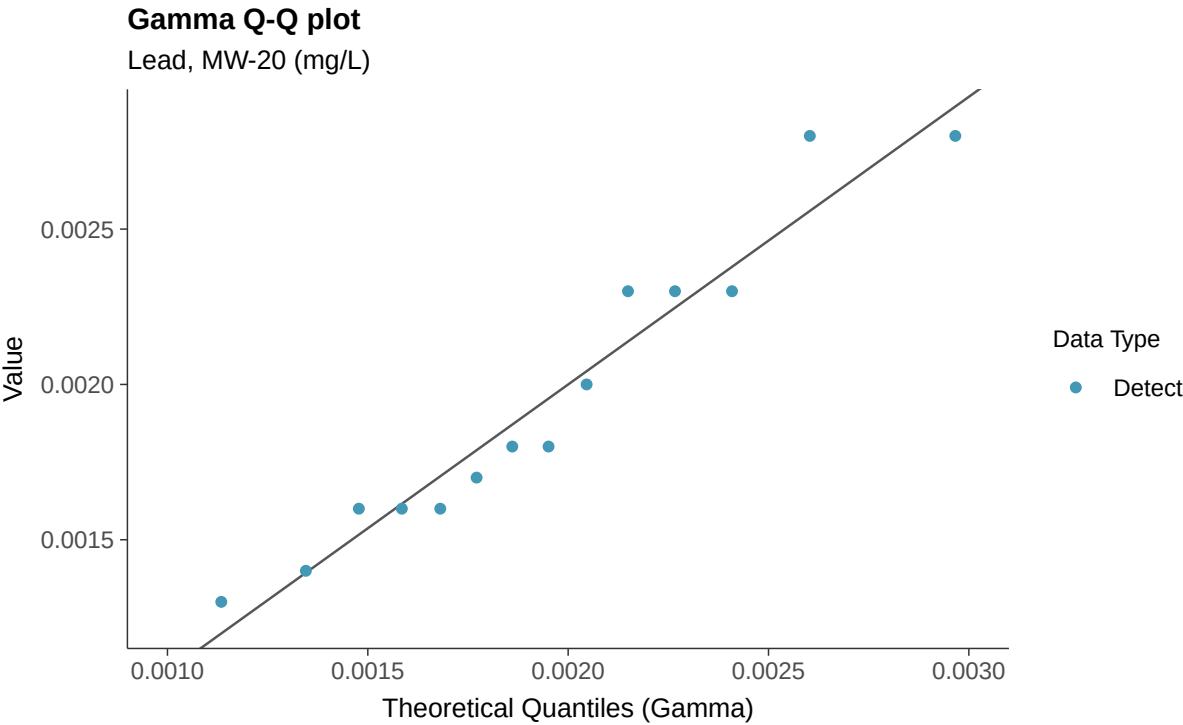
Appendix IV: Lead, MW-20

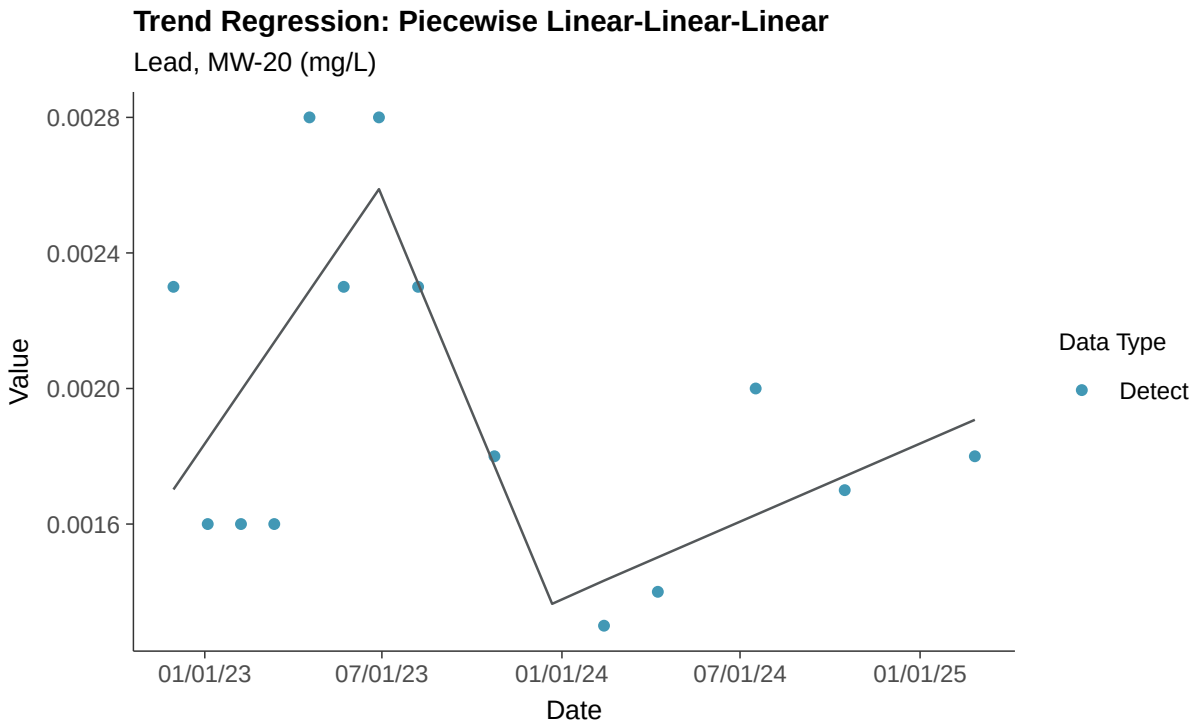
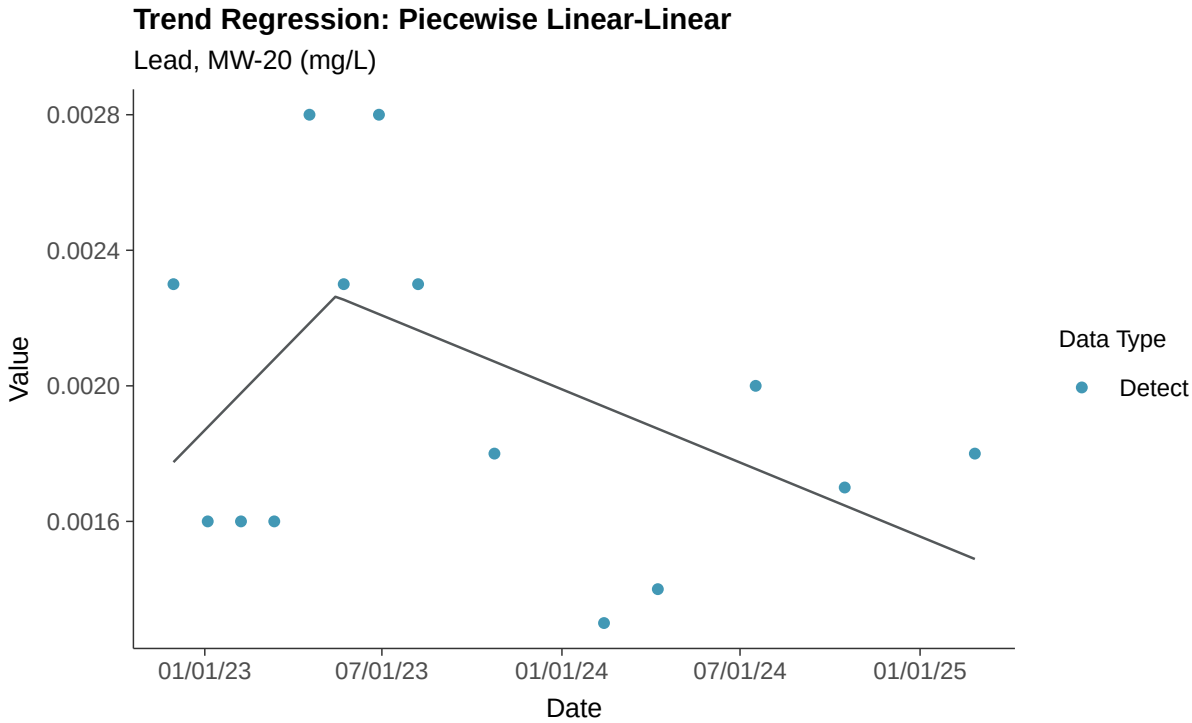
ID: 30_1_4_115







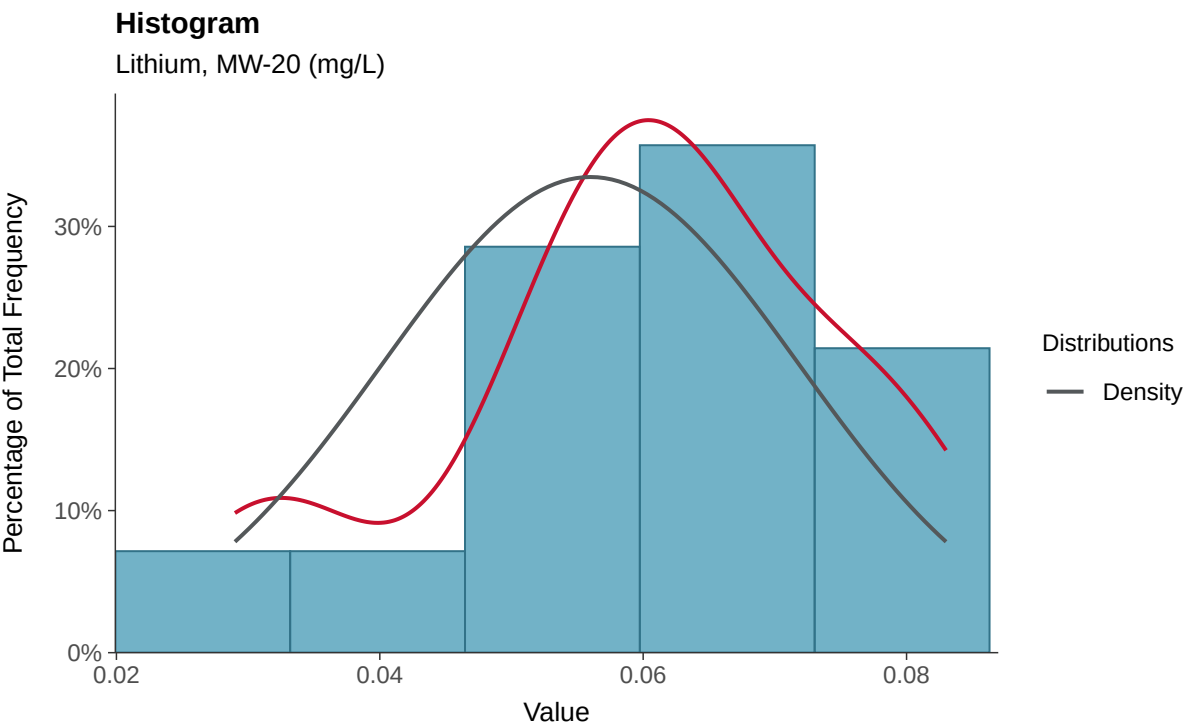
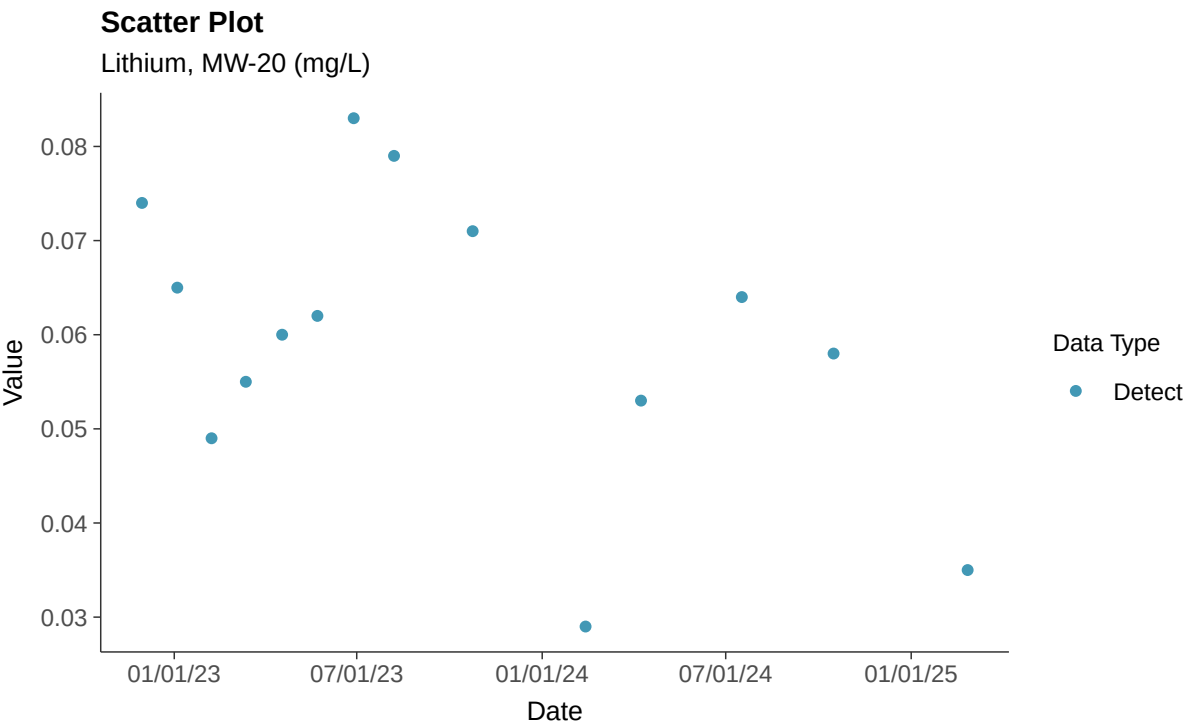


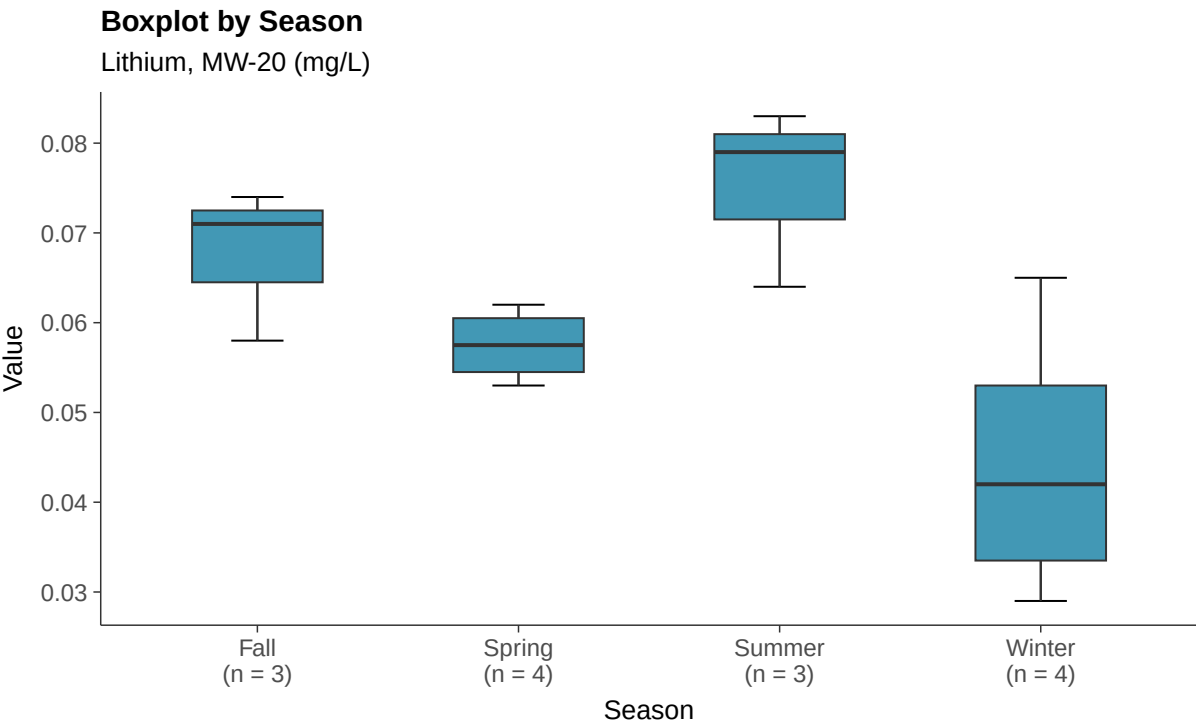
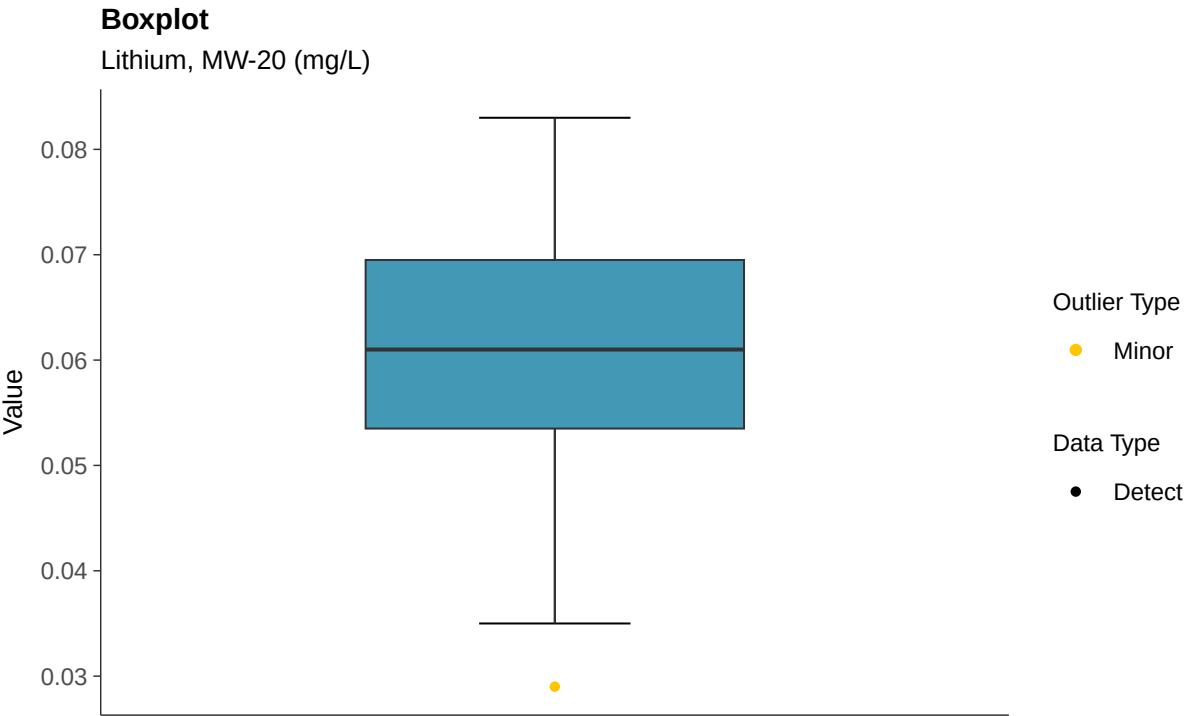


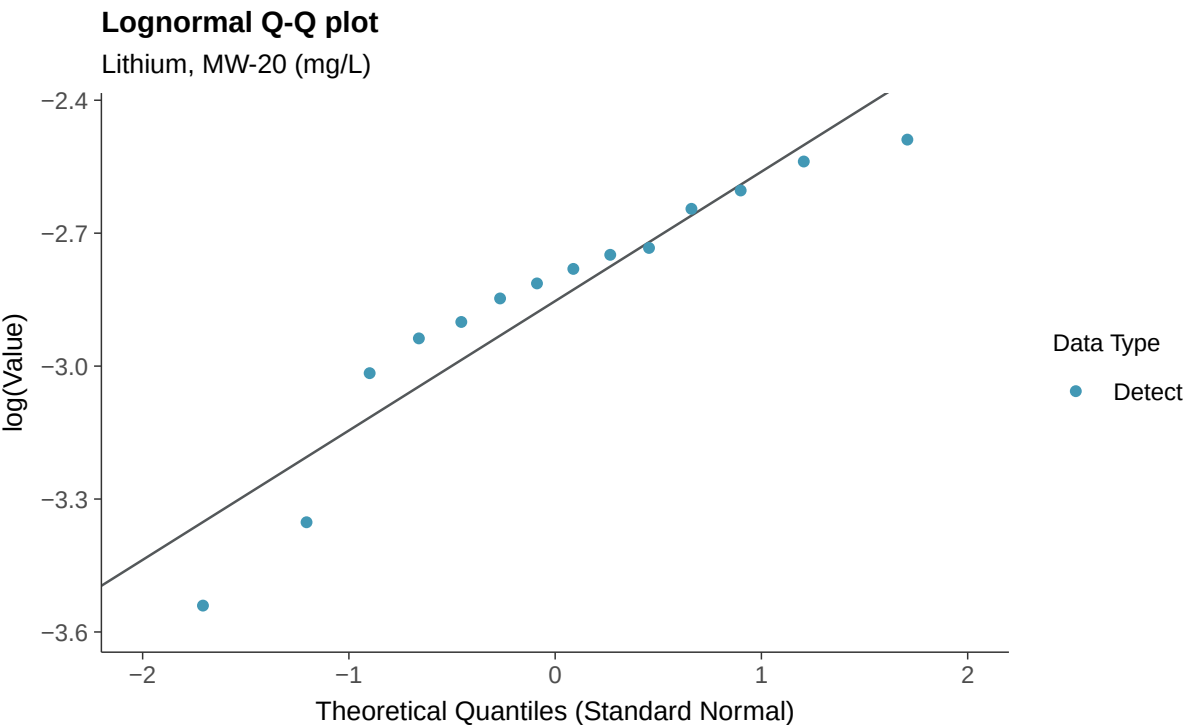
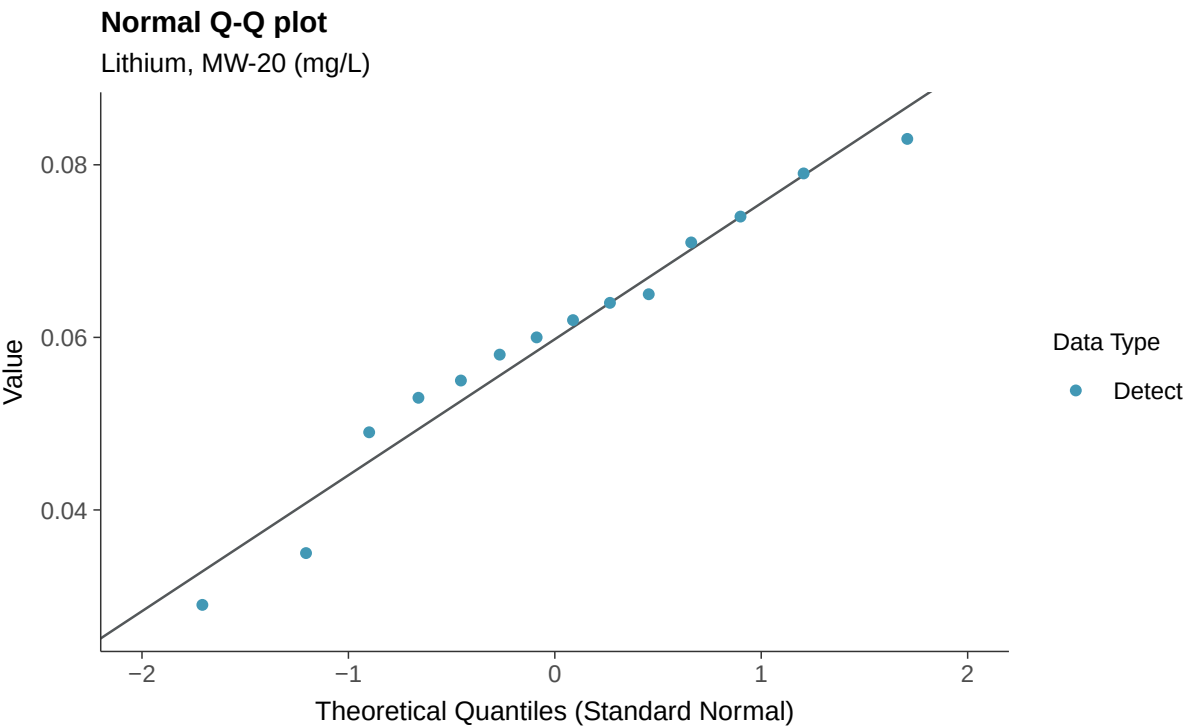


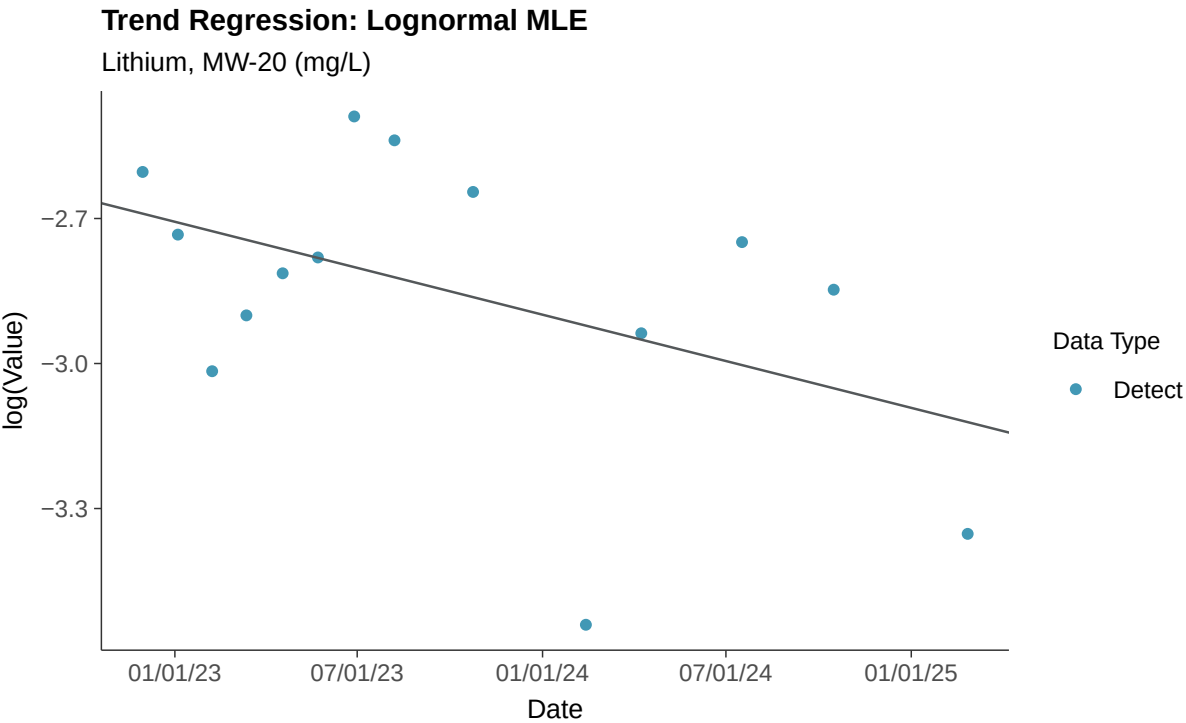
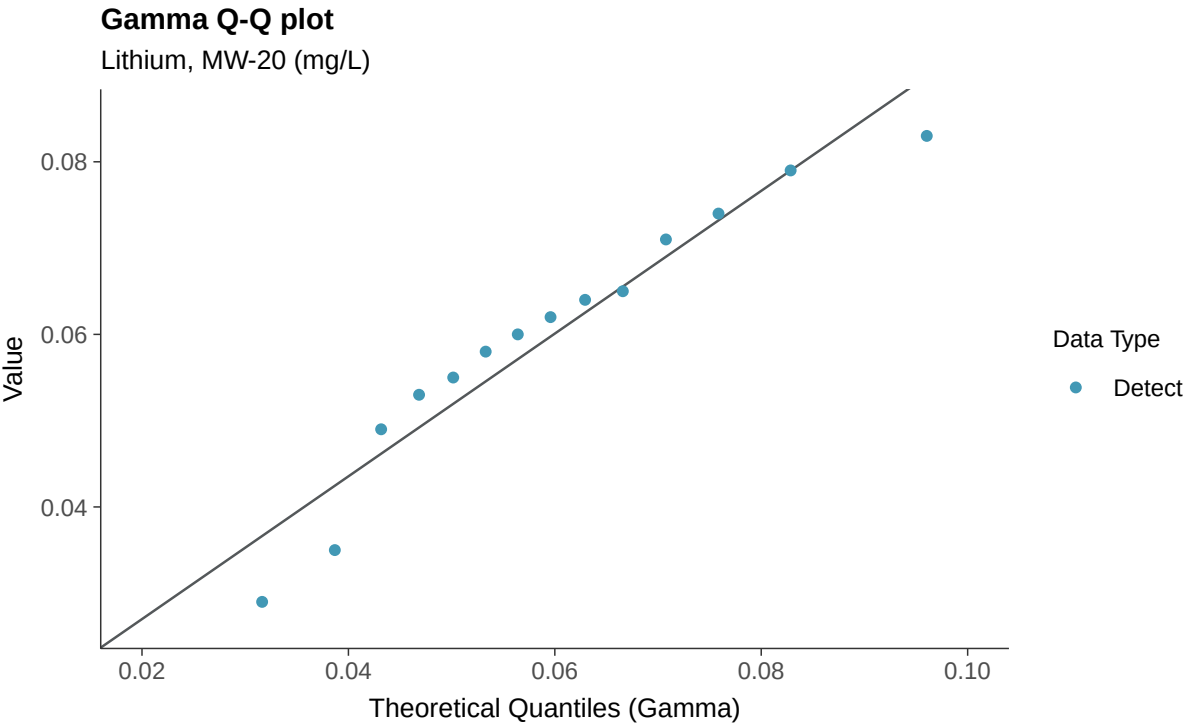
Appendix IV: Lithium, MW-20

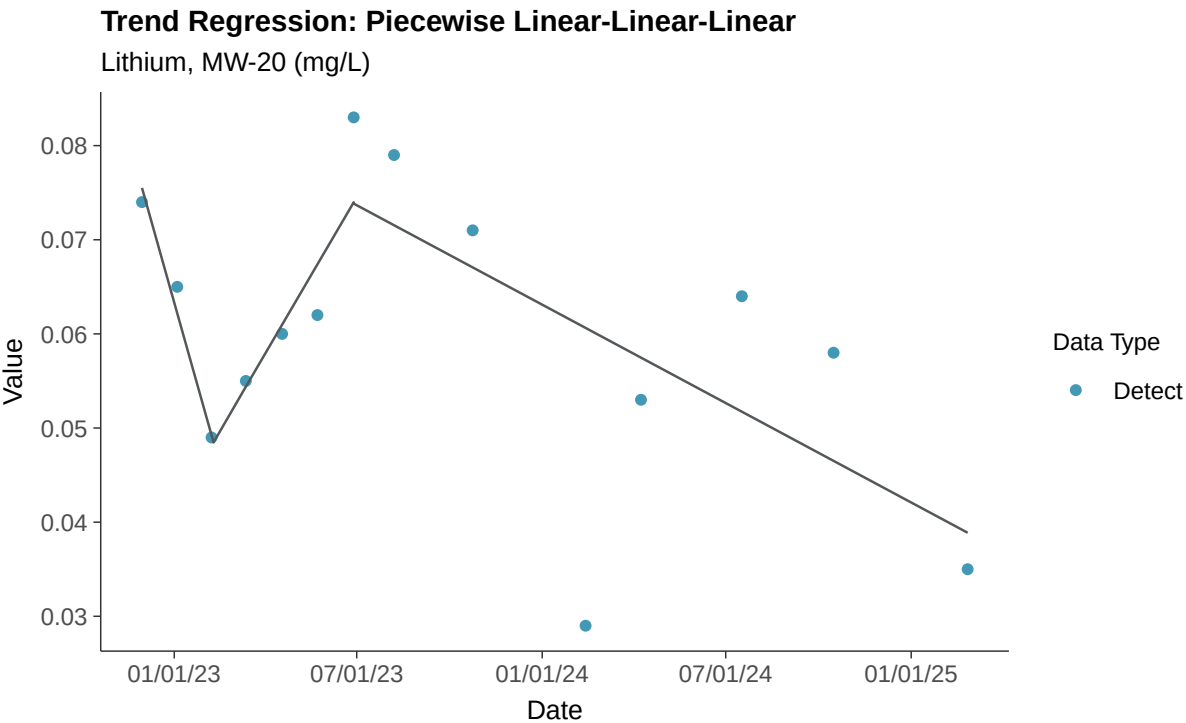
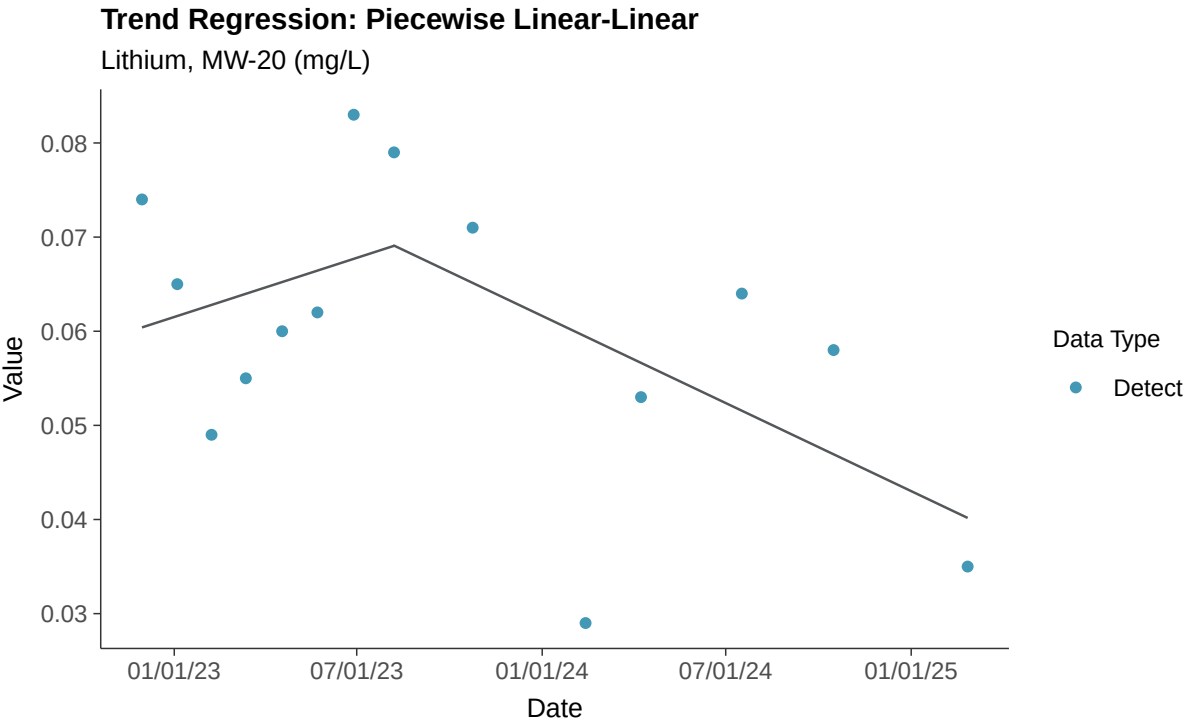
ID: 30_1_4_116







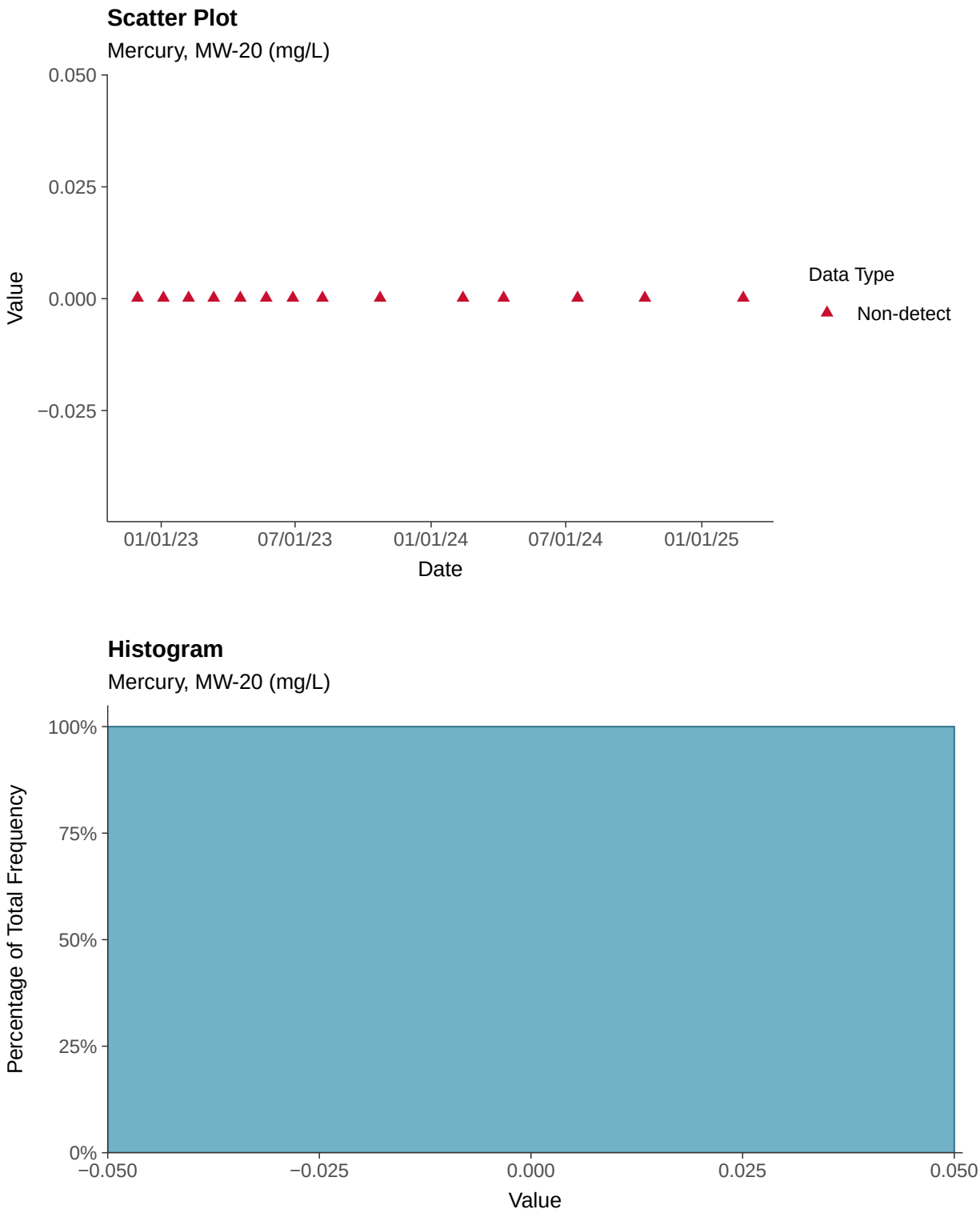


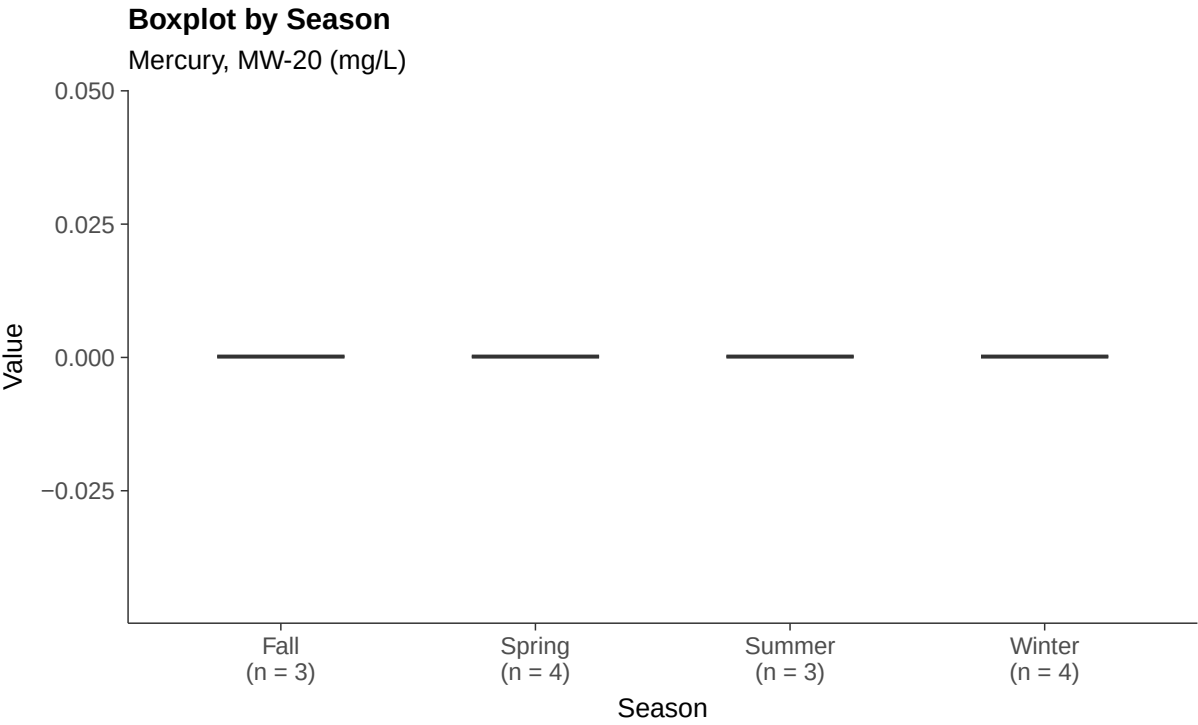
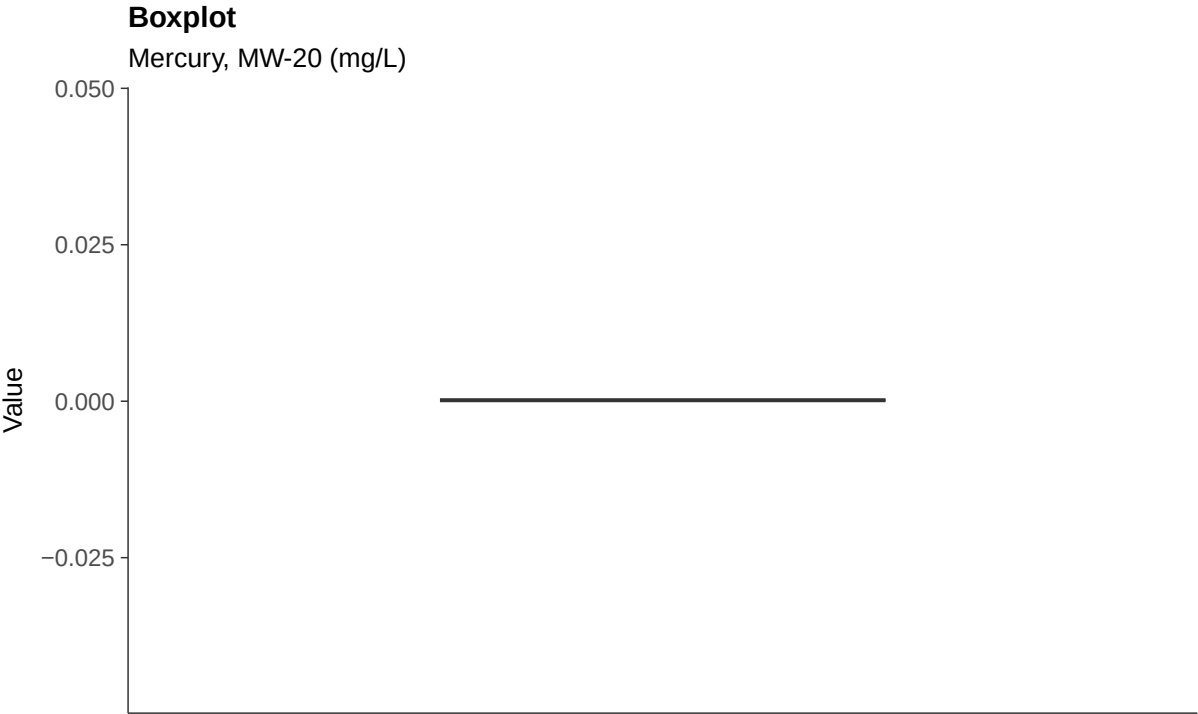




Appendix IV: Mercury, MW-20

ID: 30_1_4_117

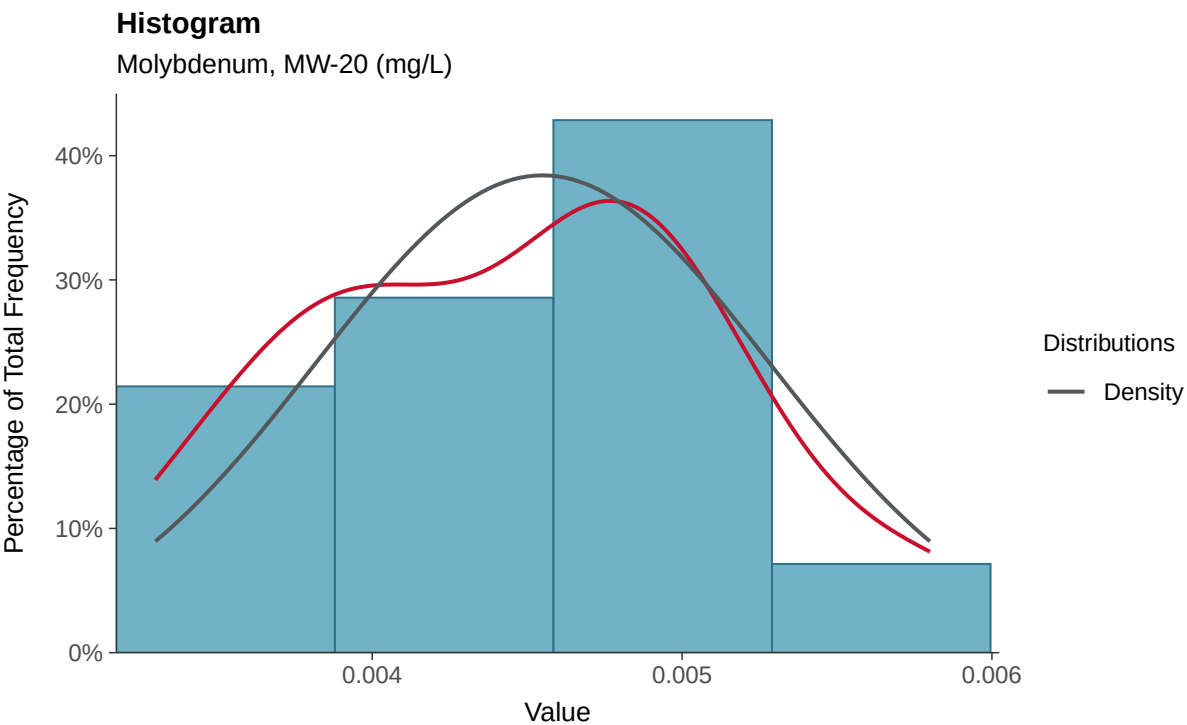
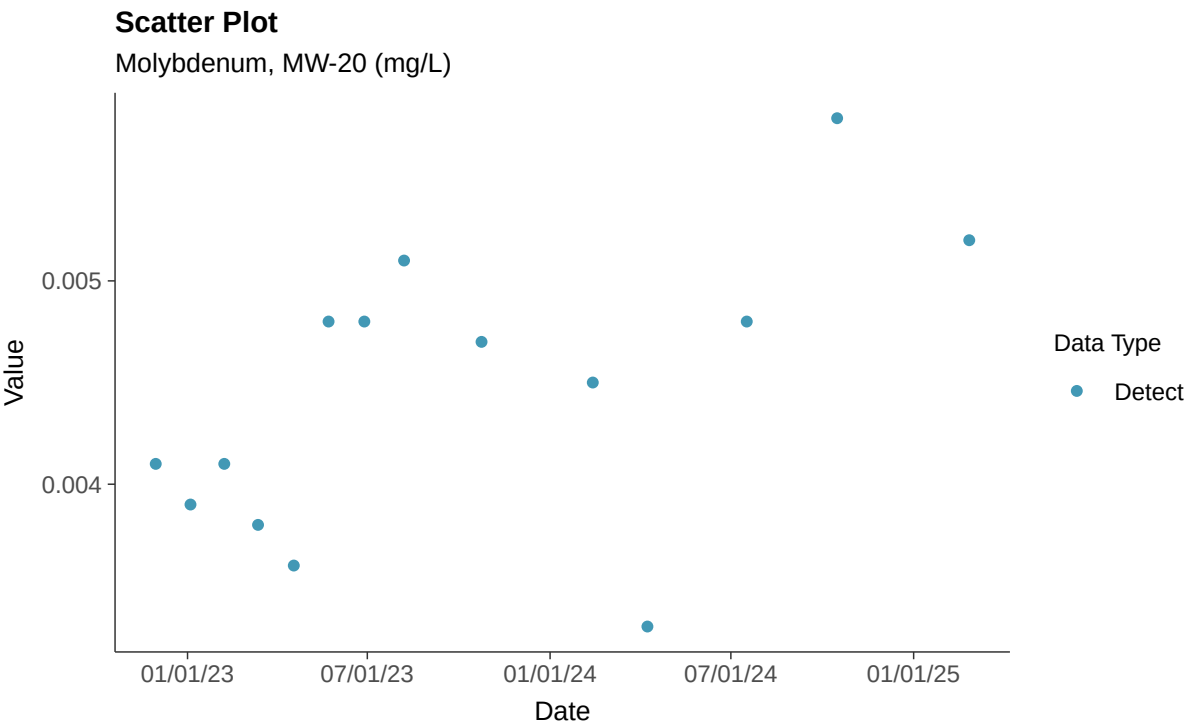


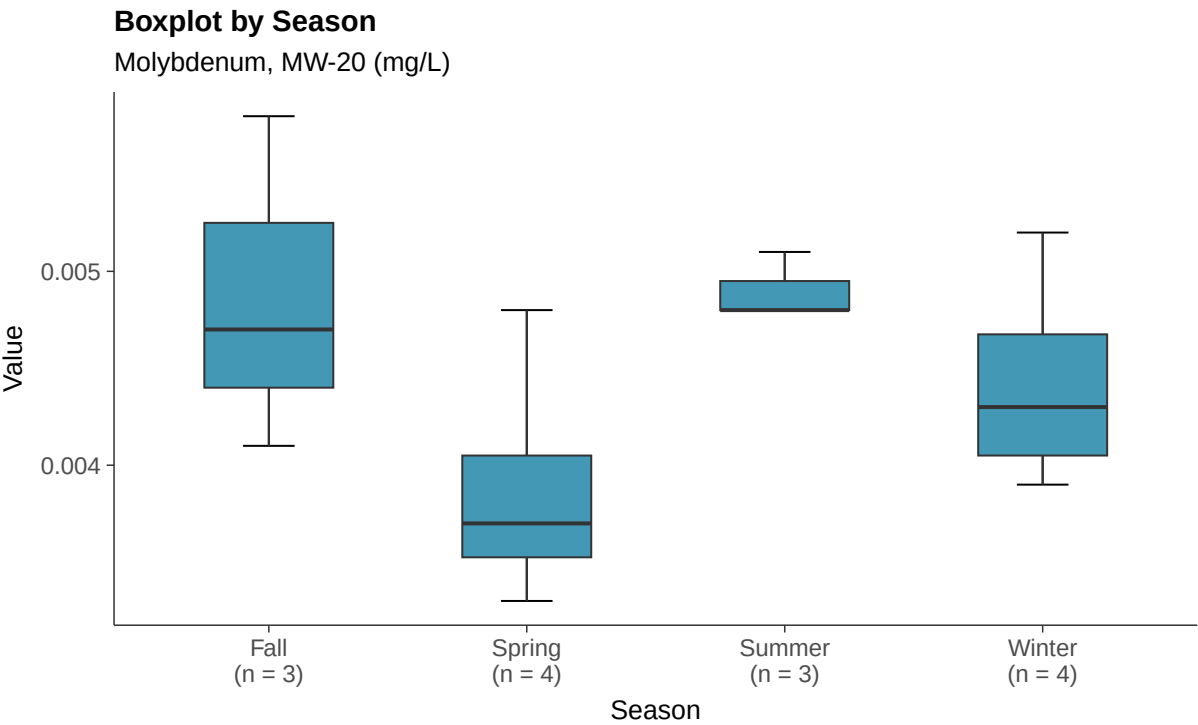
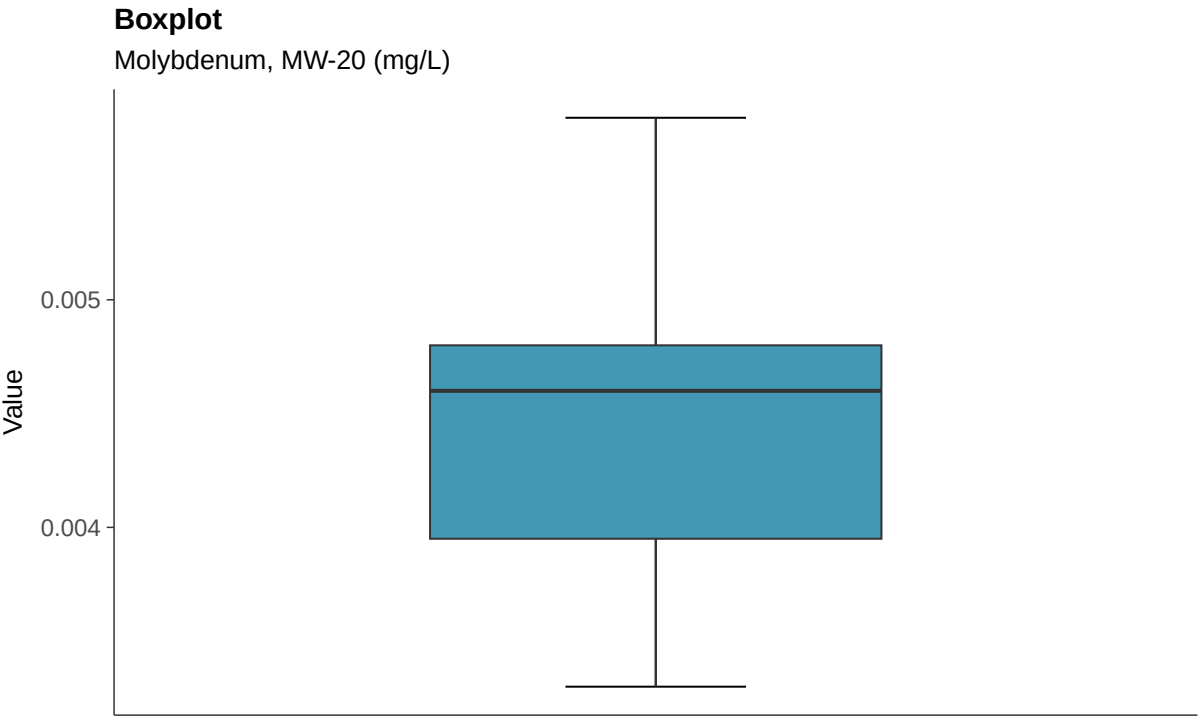


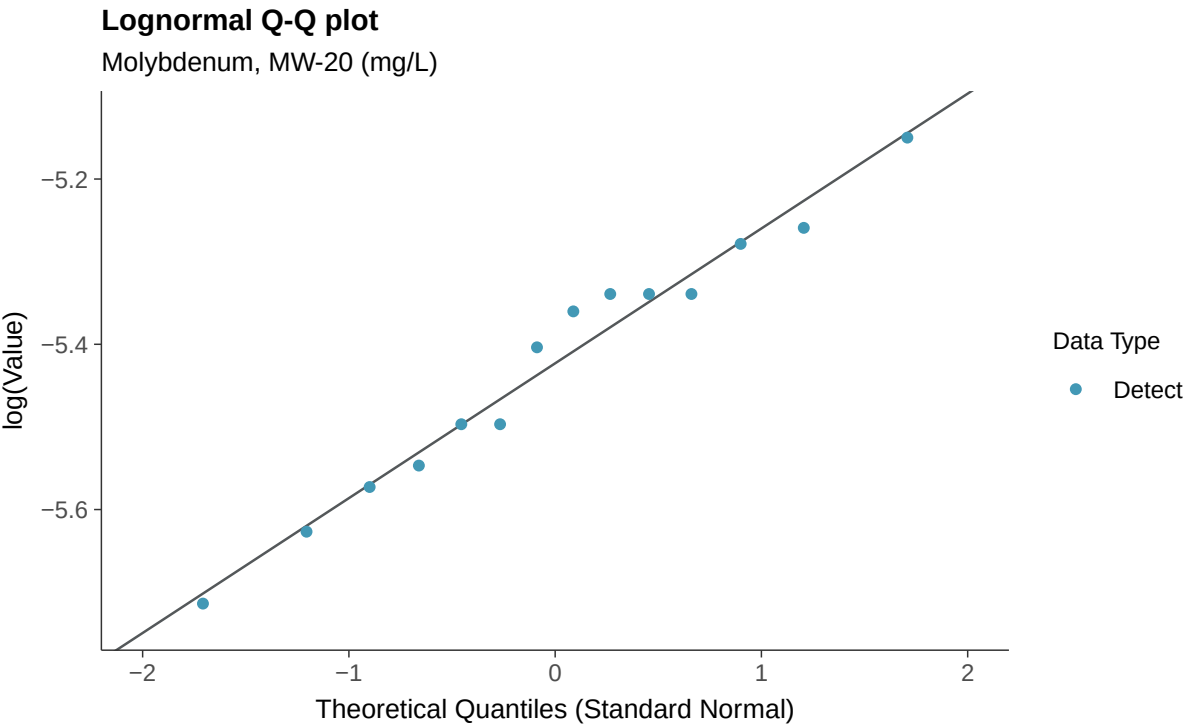
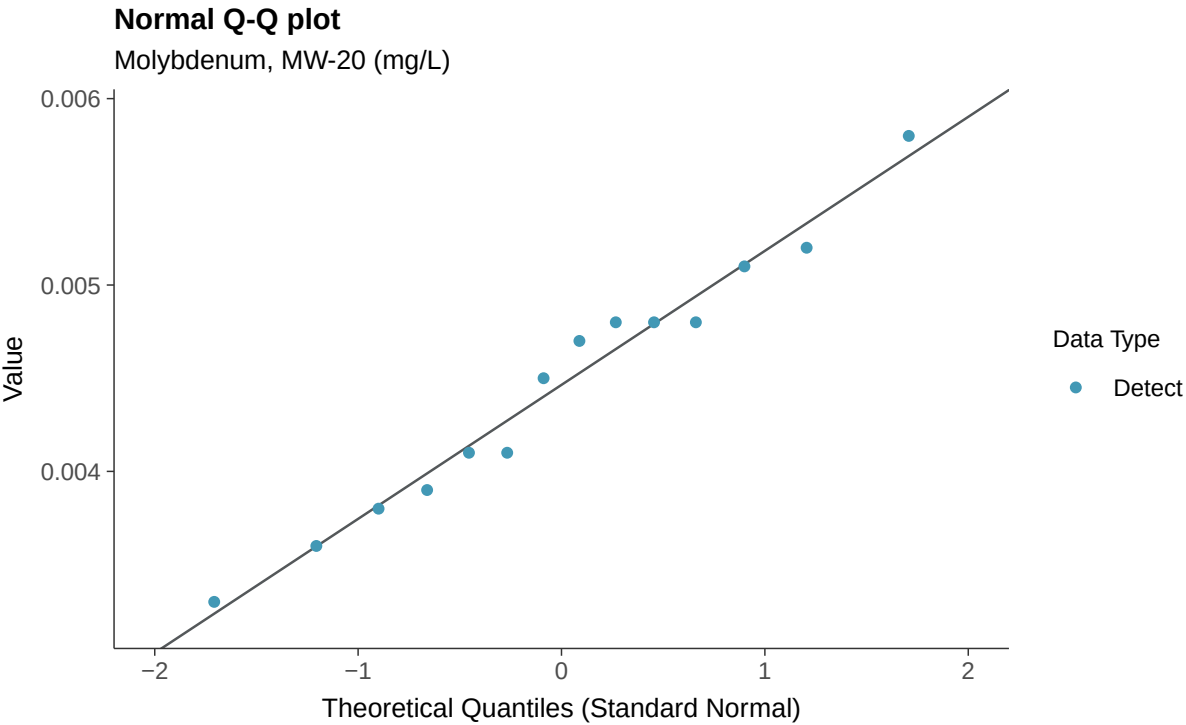


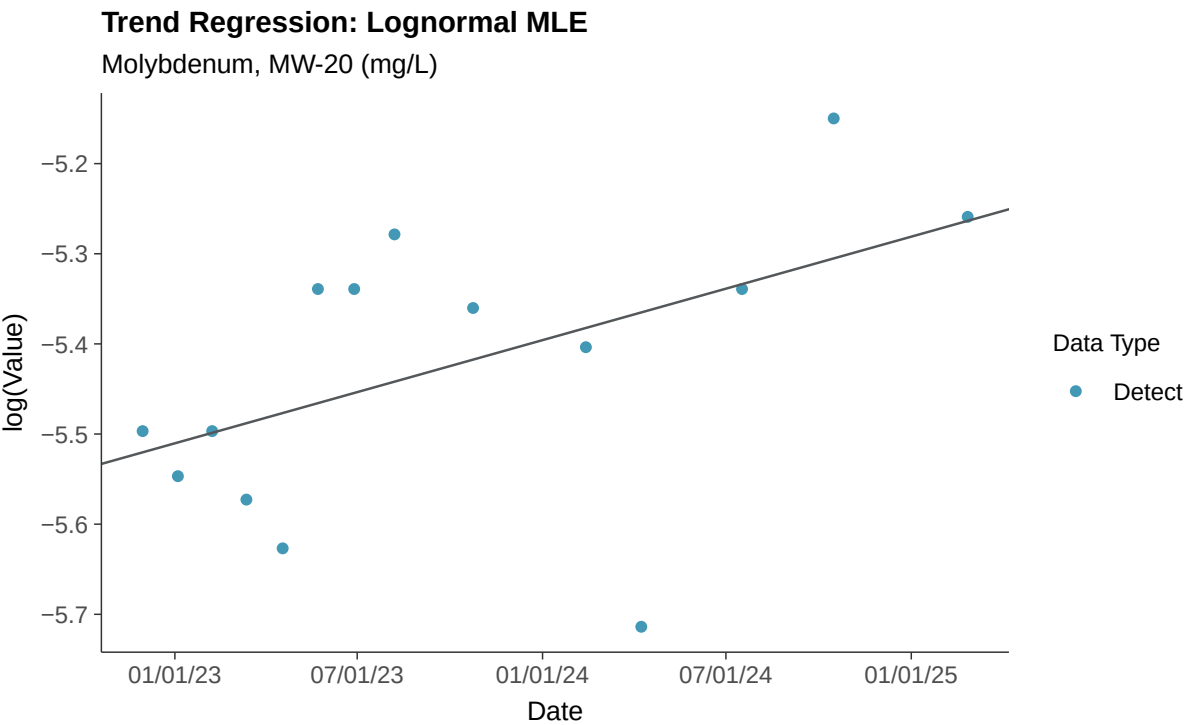
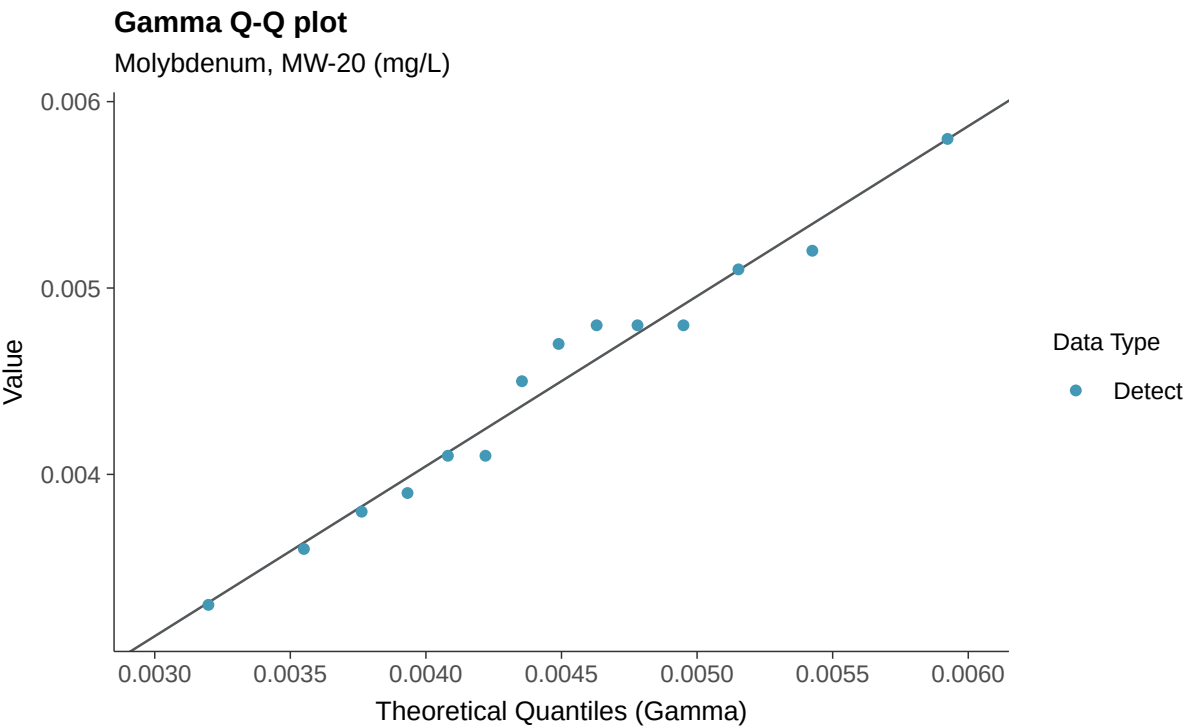
Appendix IV: Molybdenum, MW-20

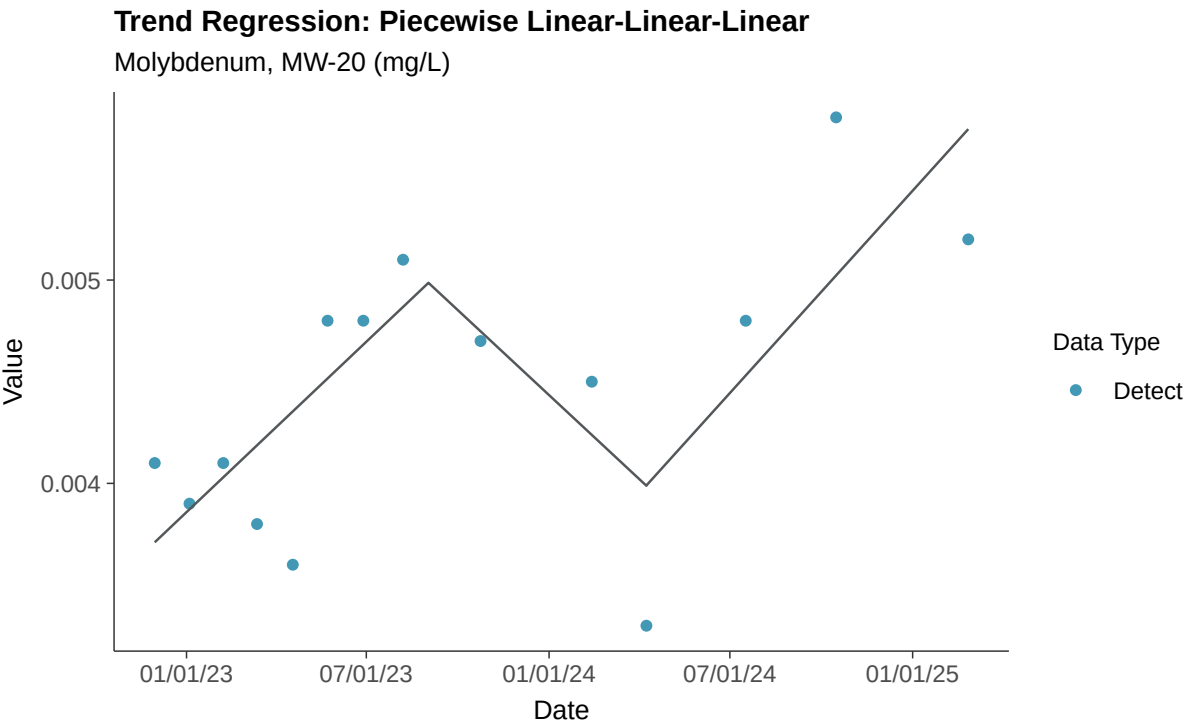
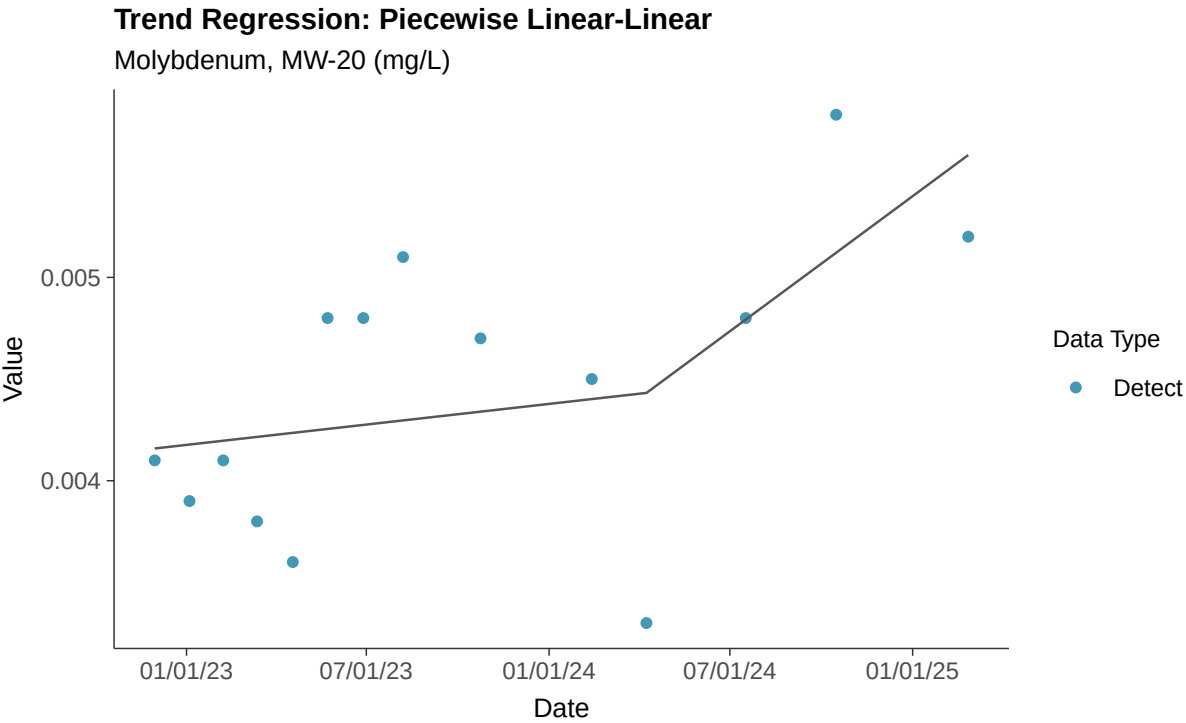
ID: 30_1_4_118







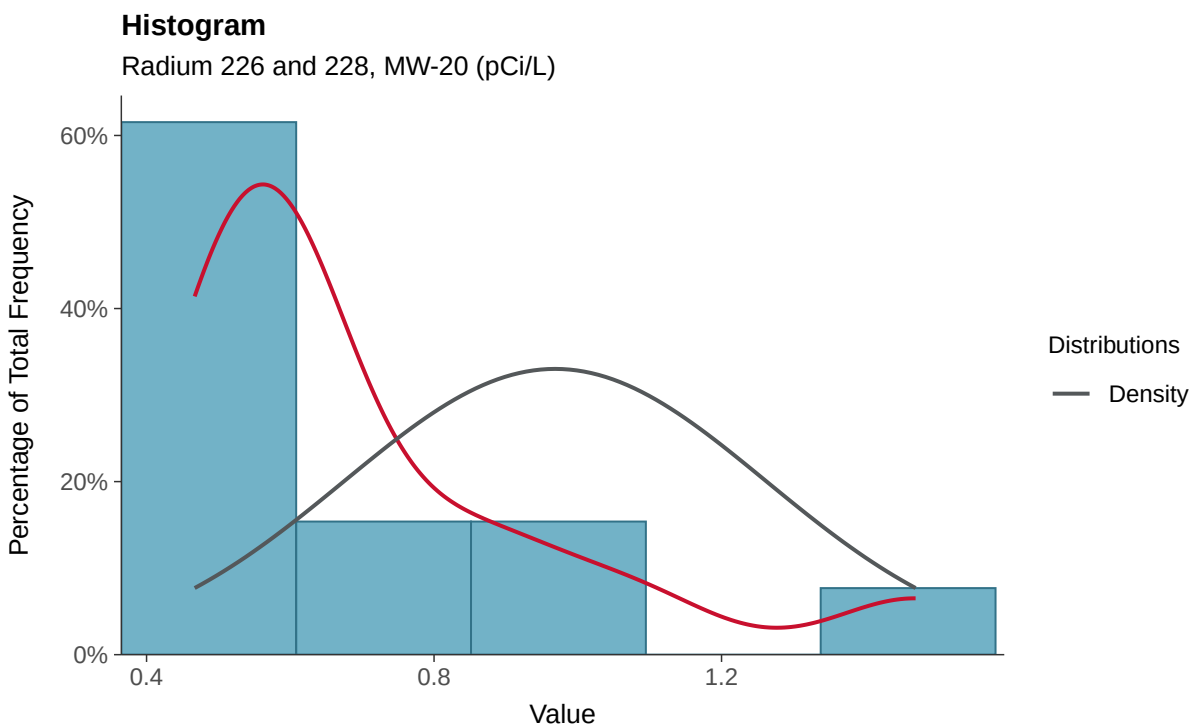
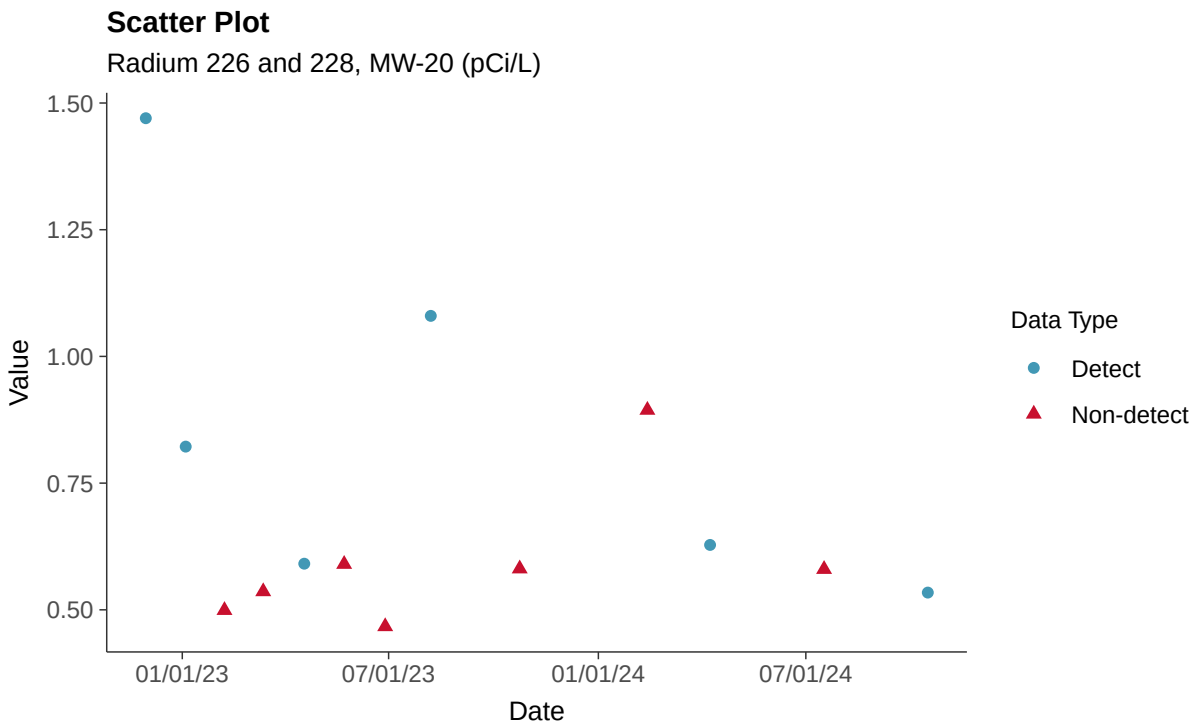


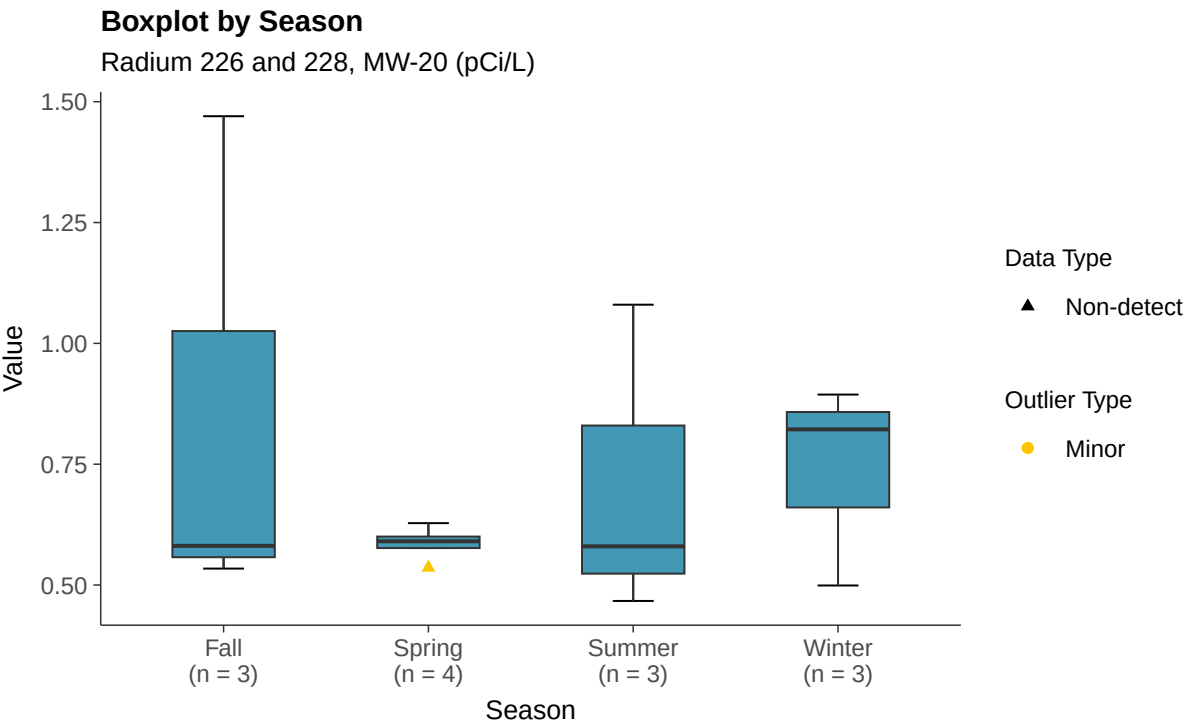
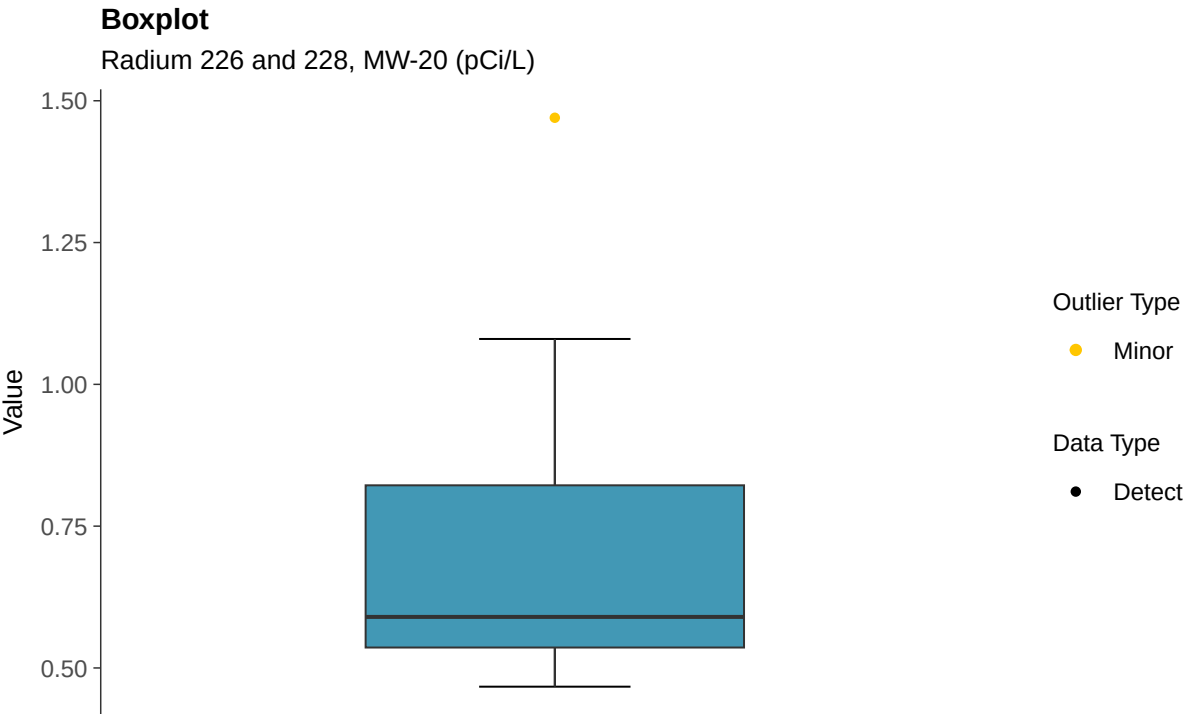




Appendix IV: Radium 226 and 228, MW-20

ID: 30_1_4_121

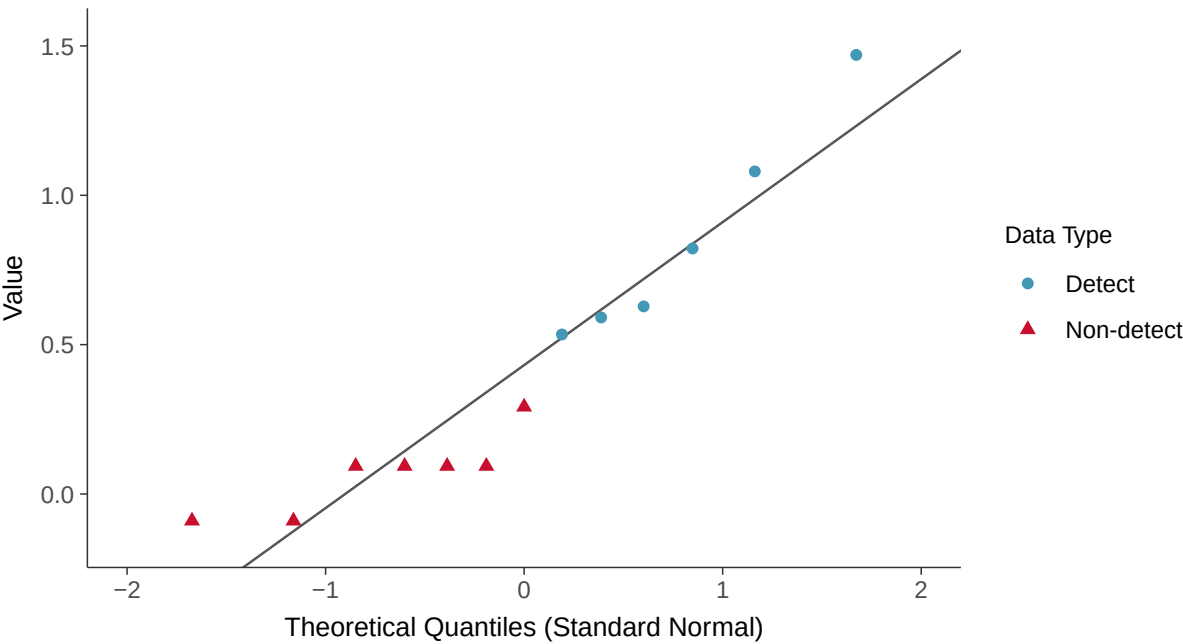






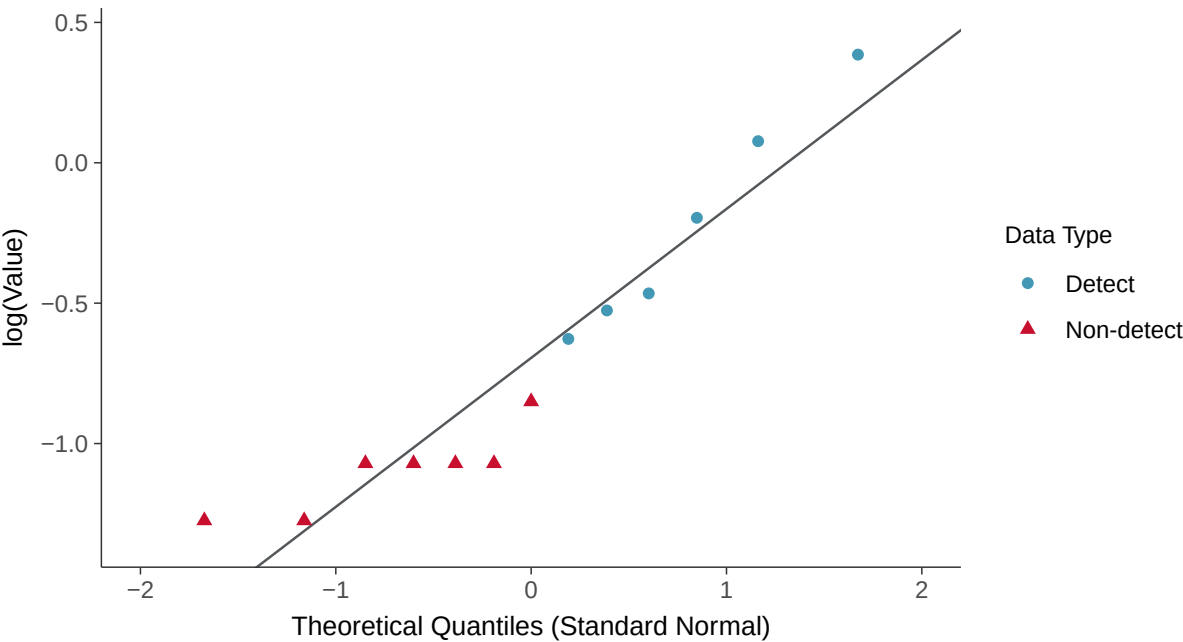
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-20 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

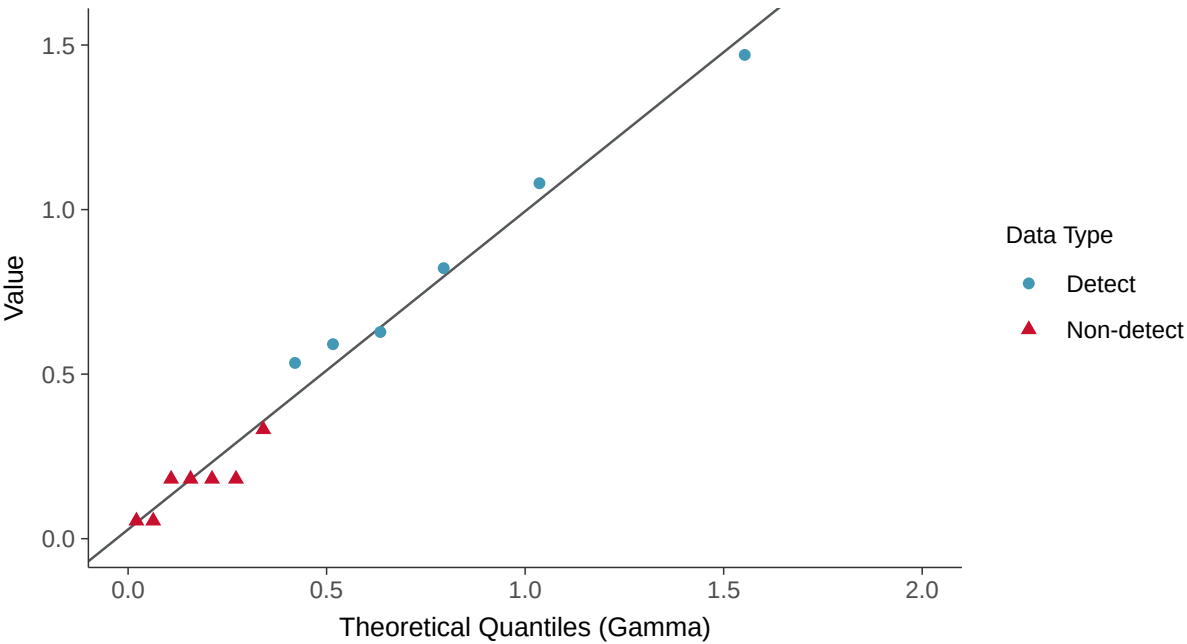
Radium 226 and 228, MW-20 (pCi/L)





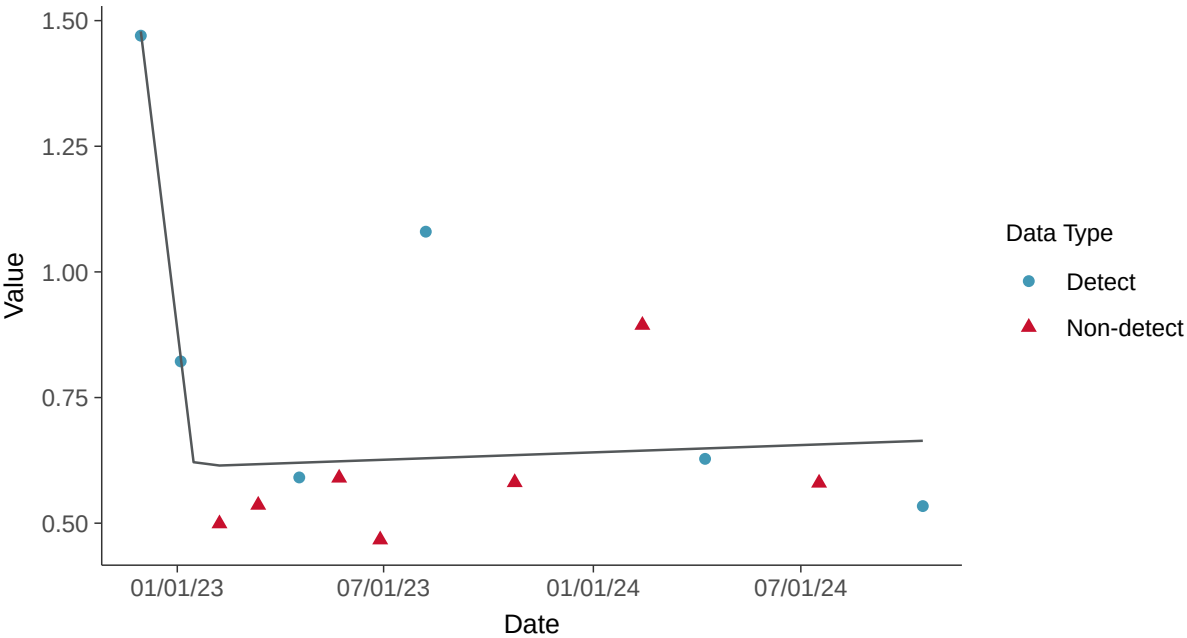
Gamma Q-Q plot using ROS Imputed Estimates

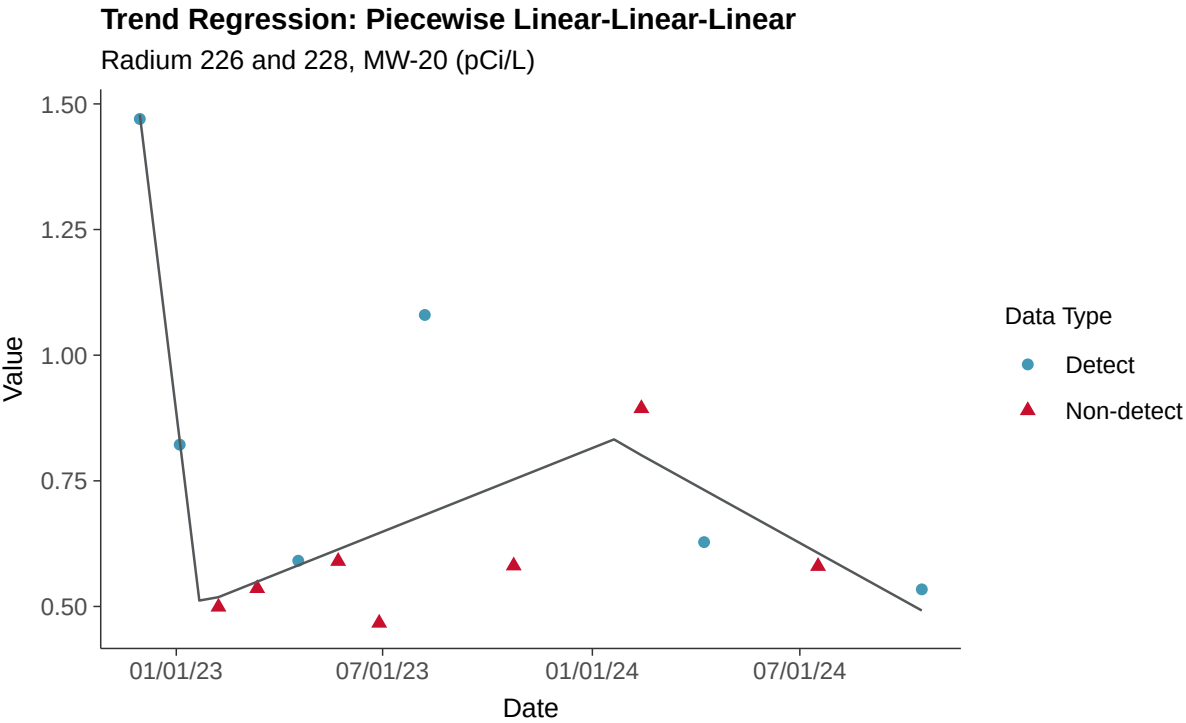
Radium 226 and 228, MW-20 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-20 (pCi/L)

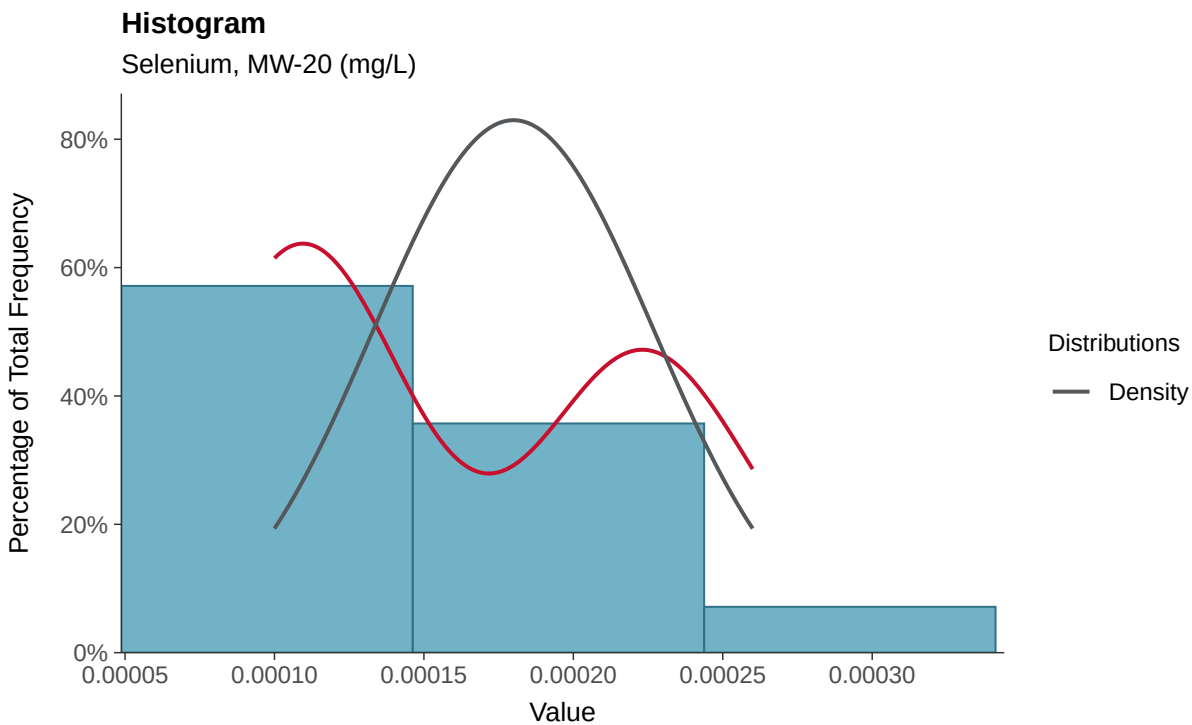
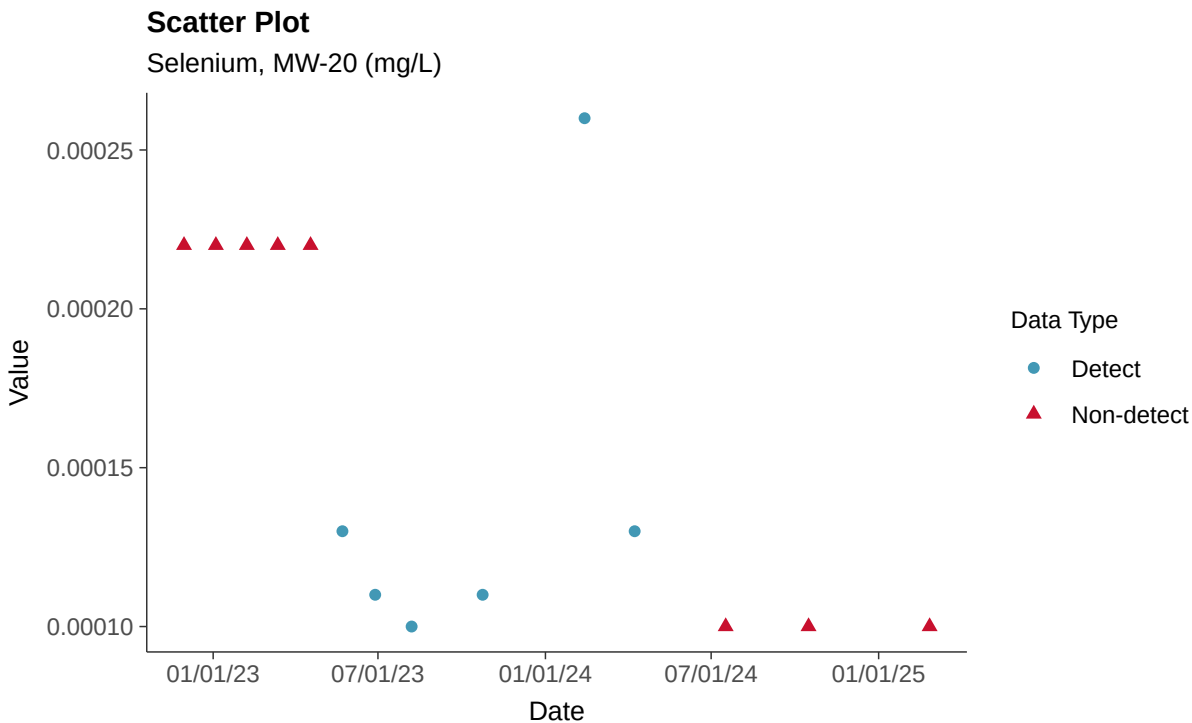


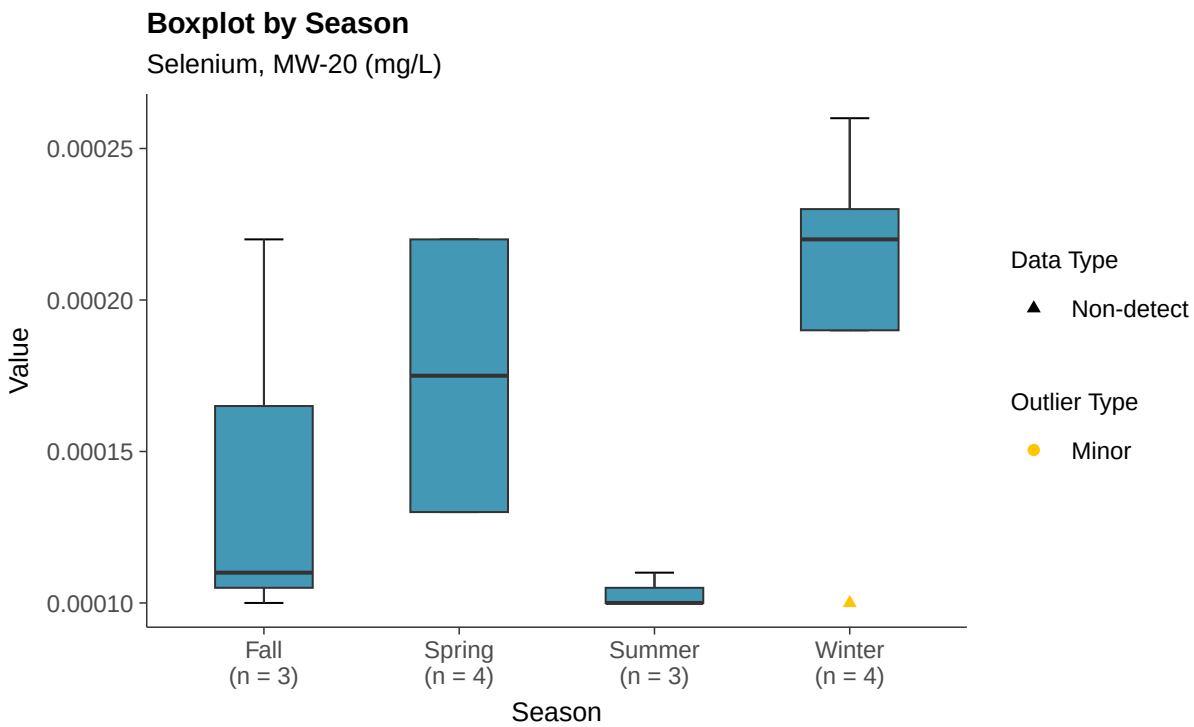




Appendix IV: Selenium, MW-20

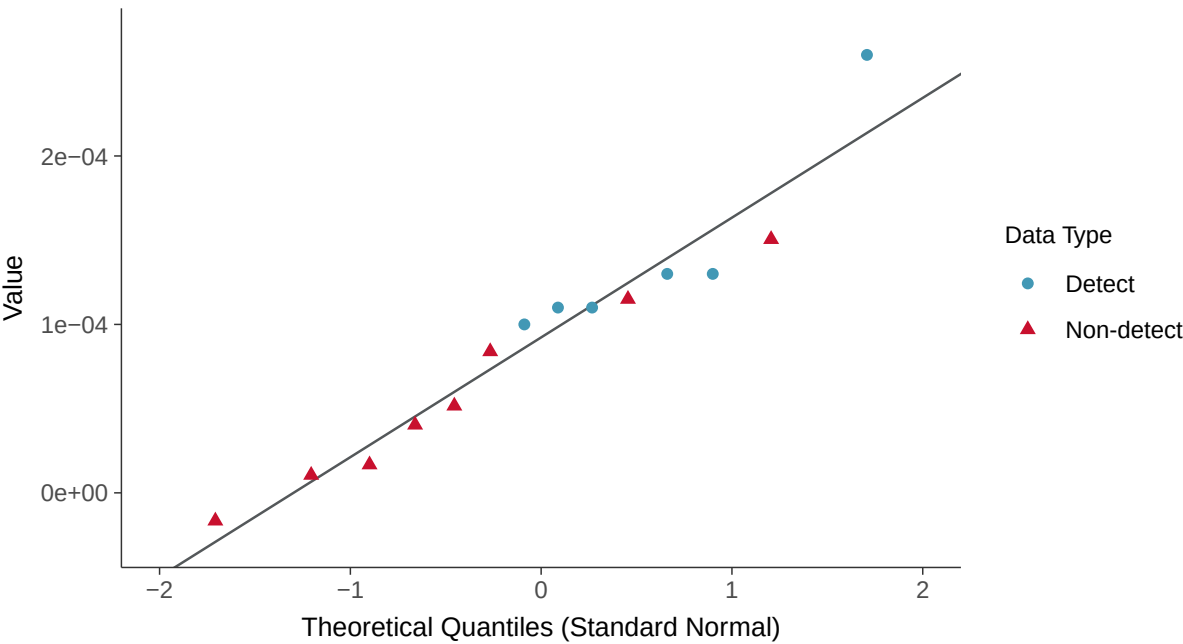
ID: 30_1_4_122



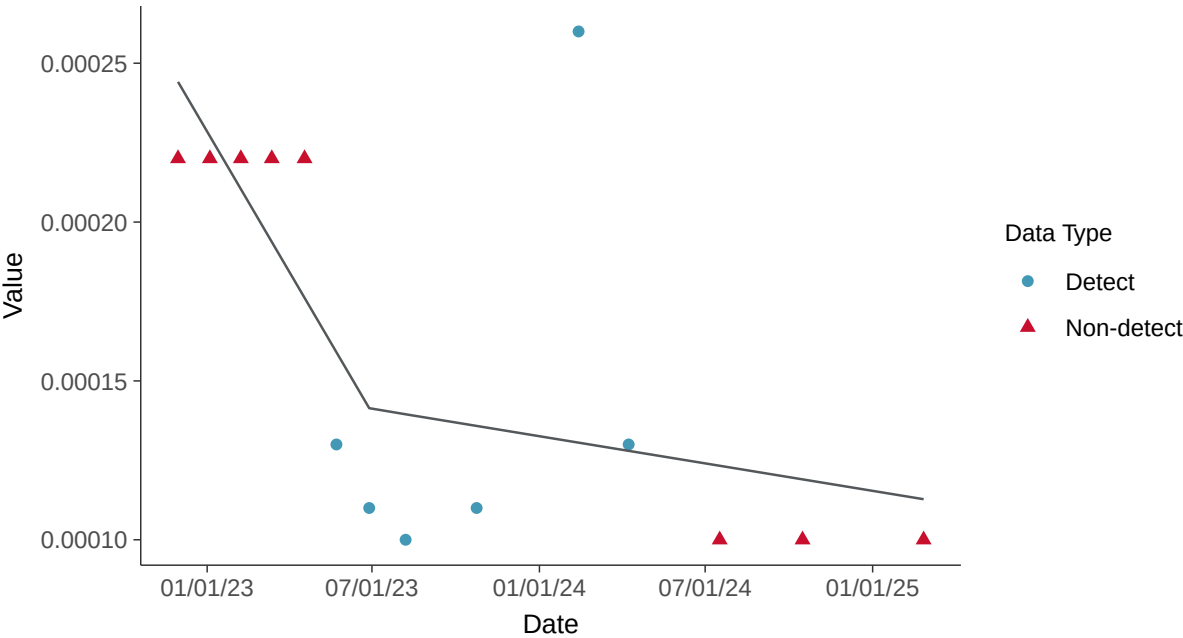


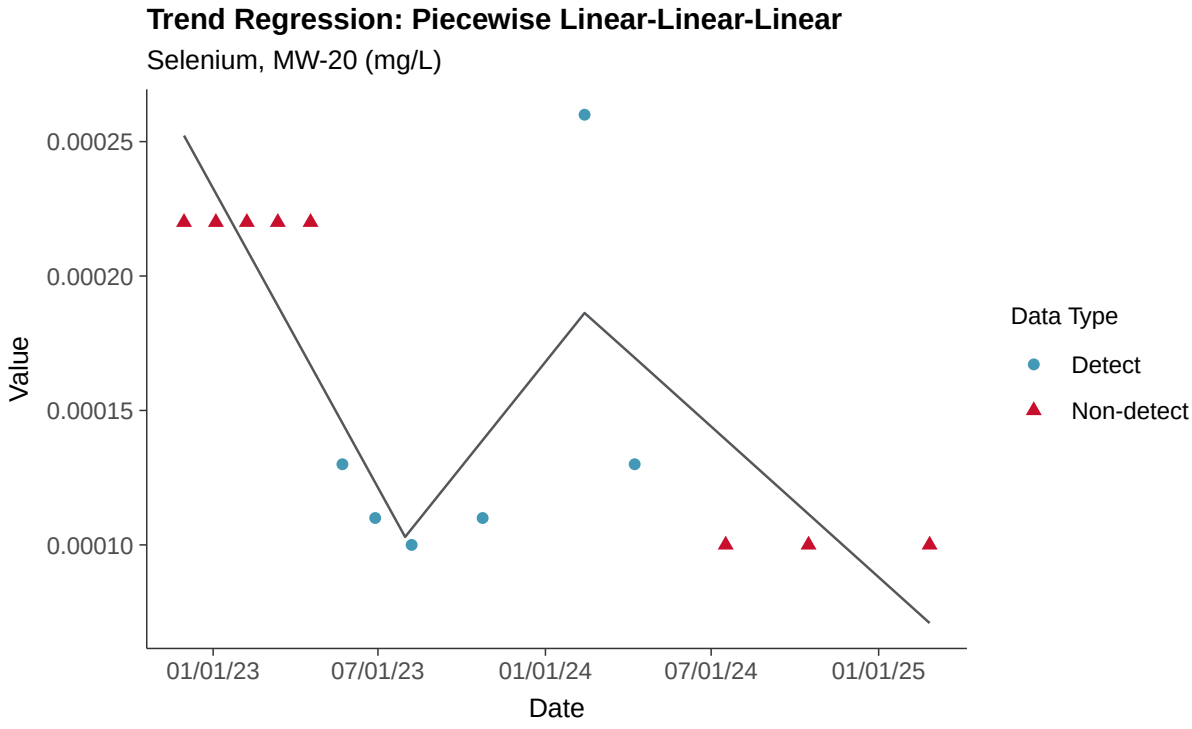


Normal Q-Q plot using ROS Imputed Estimates
Selenium, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear
Selenium, MW-20 (mg/L)

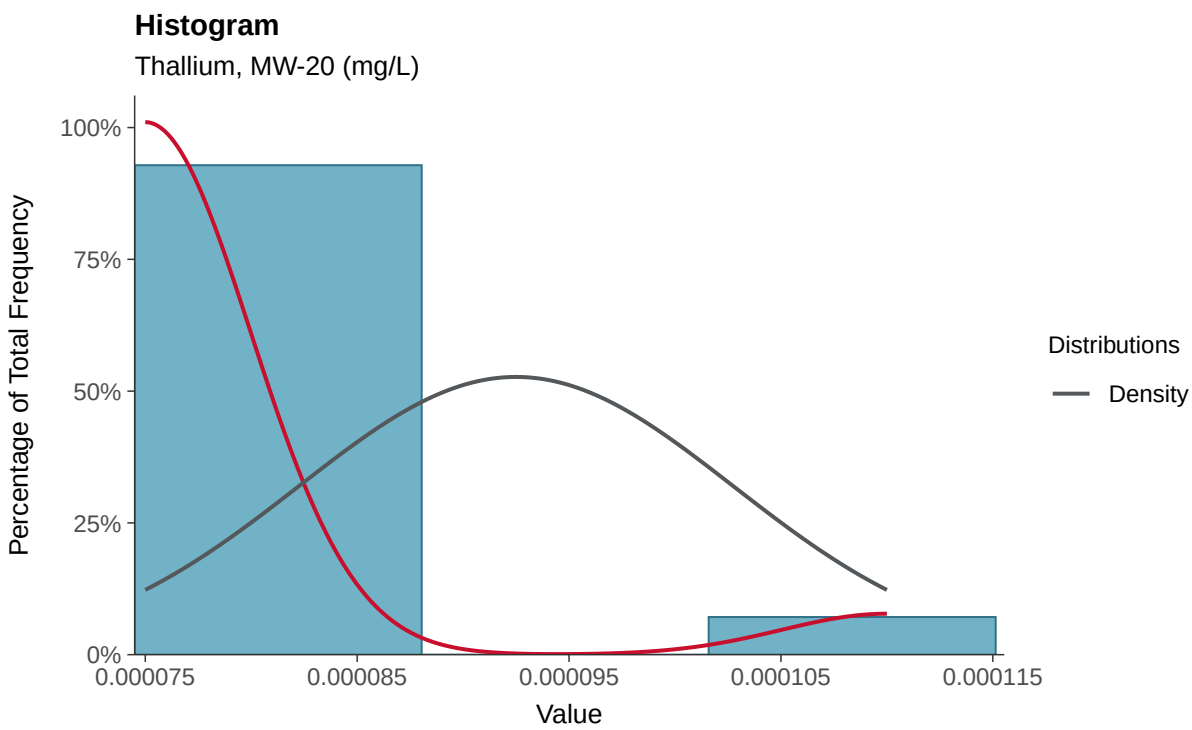
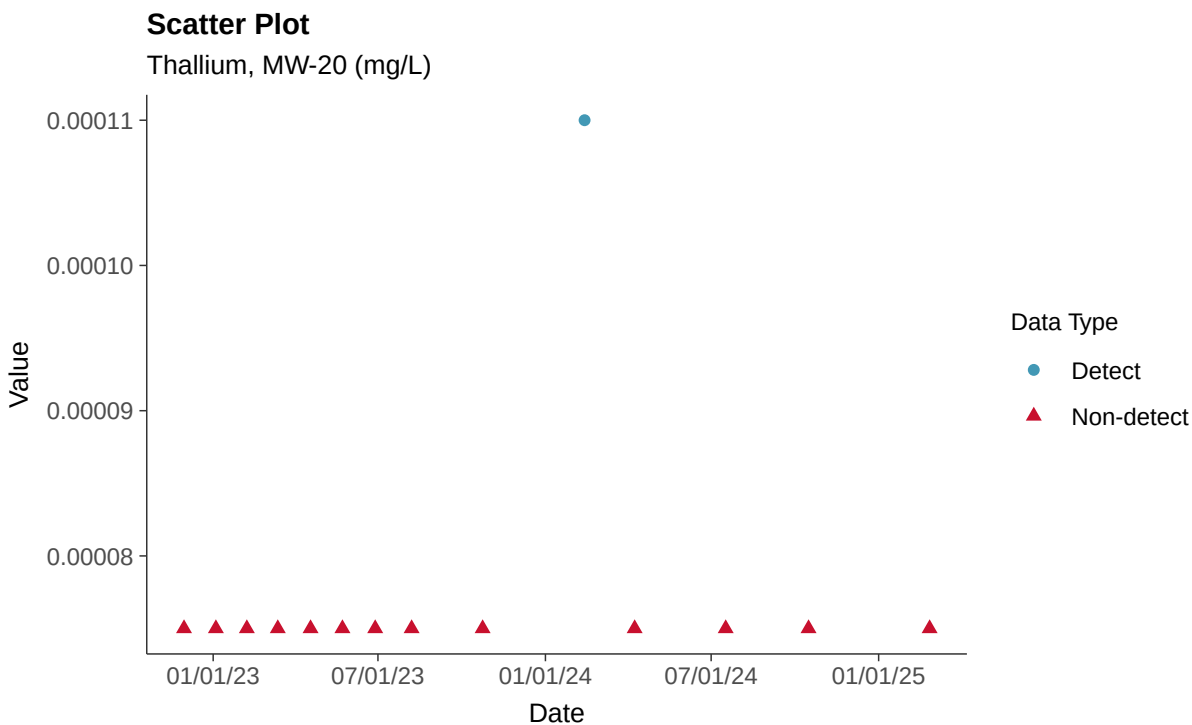


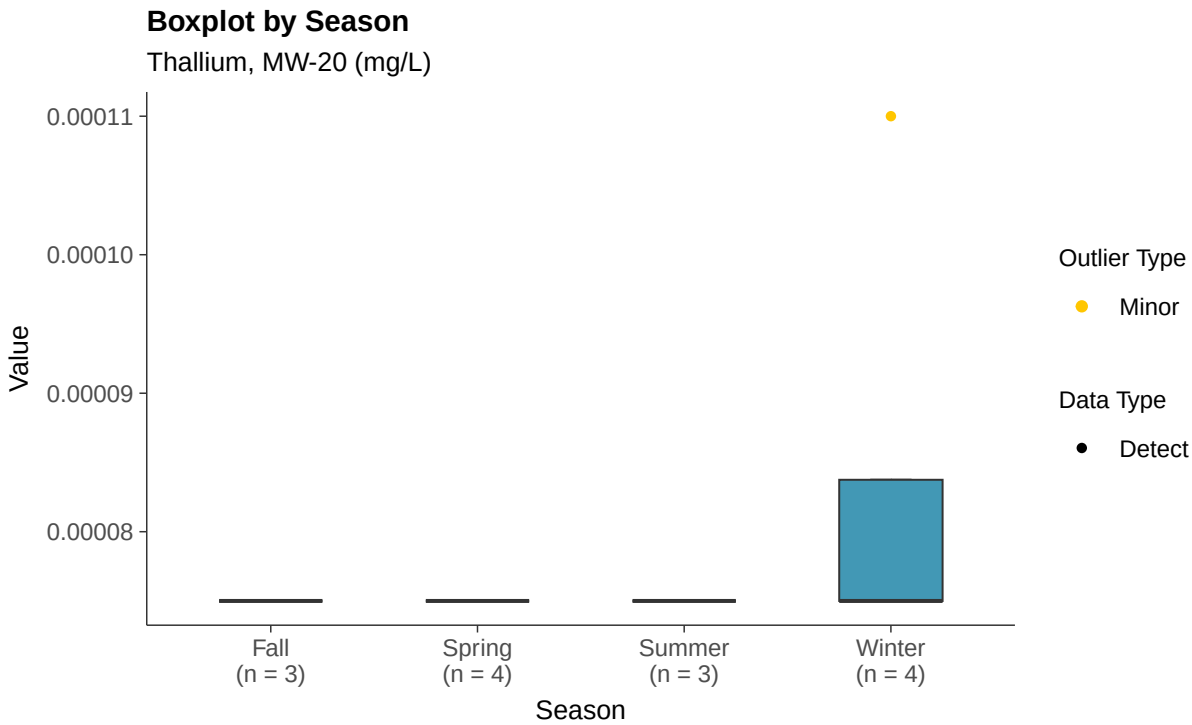
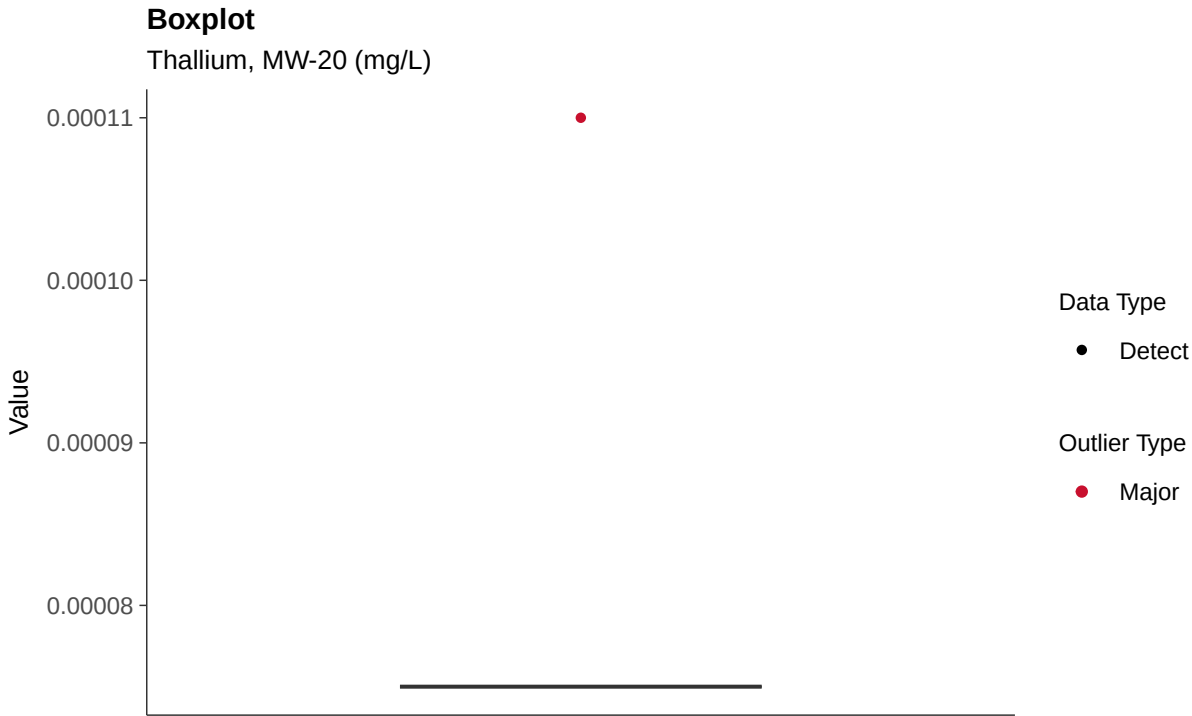




Appendix IV: Thallium, MW-20

ID: 30_1_4_125

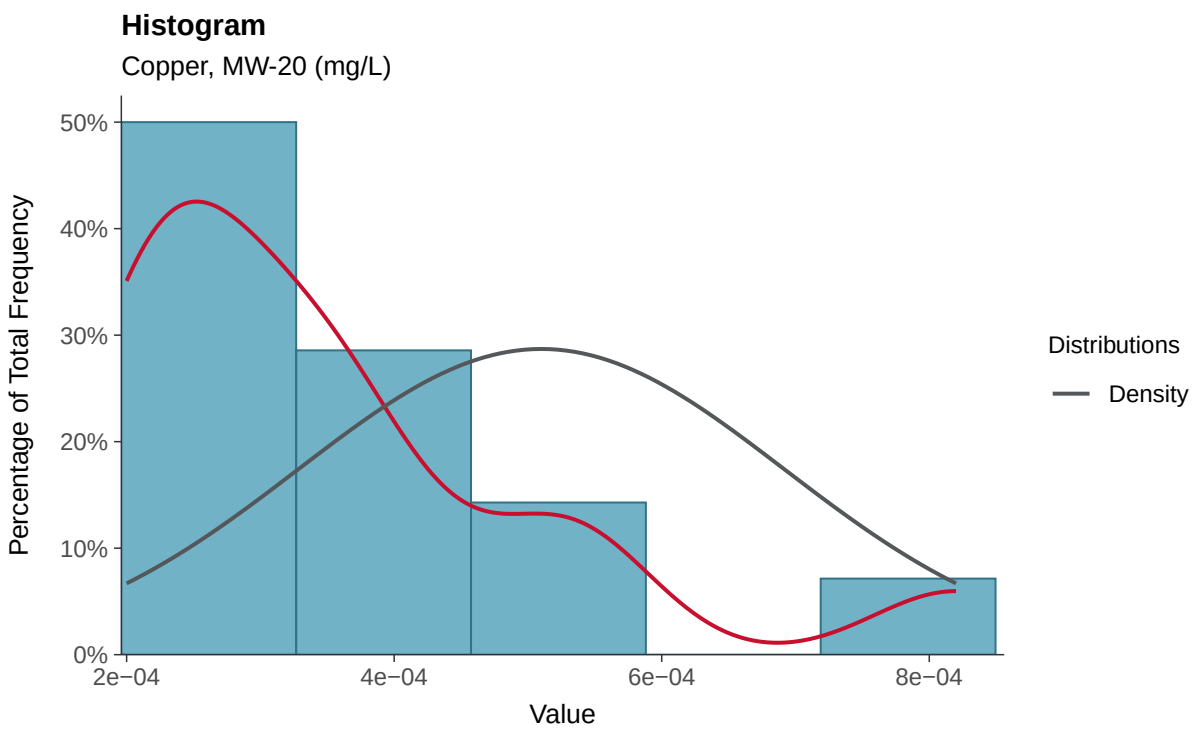
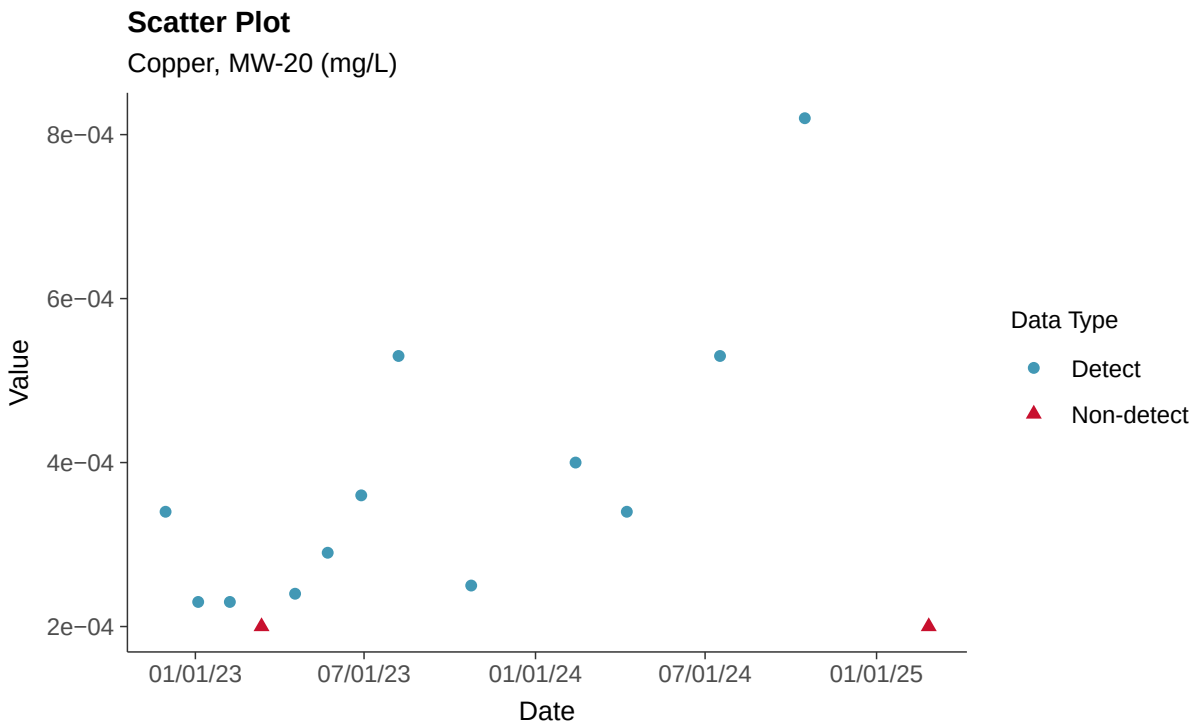


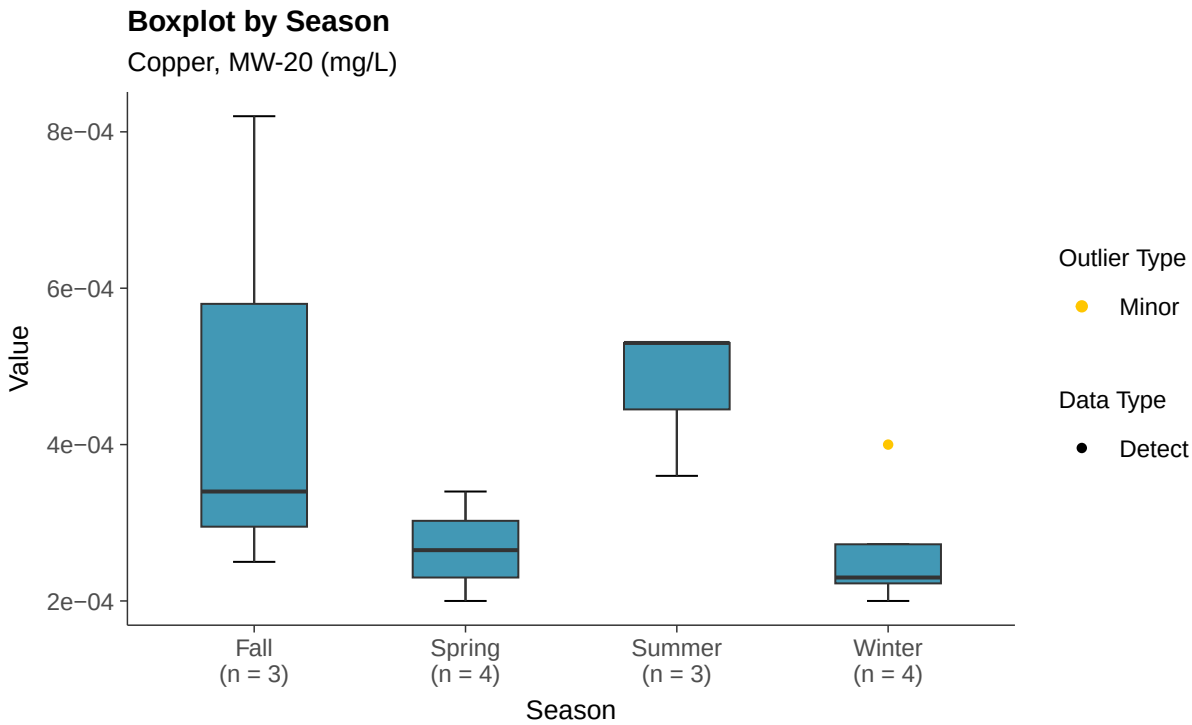
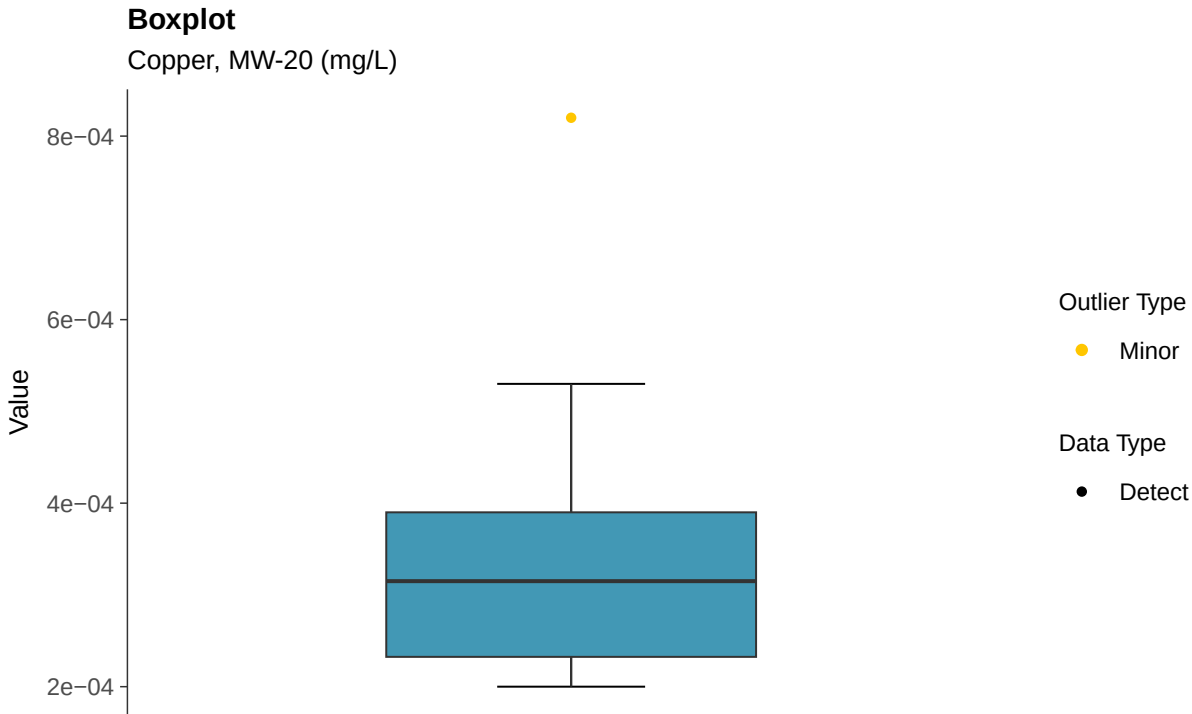




Part 115: Copper, MW-20

ID: 30_1_5_111

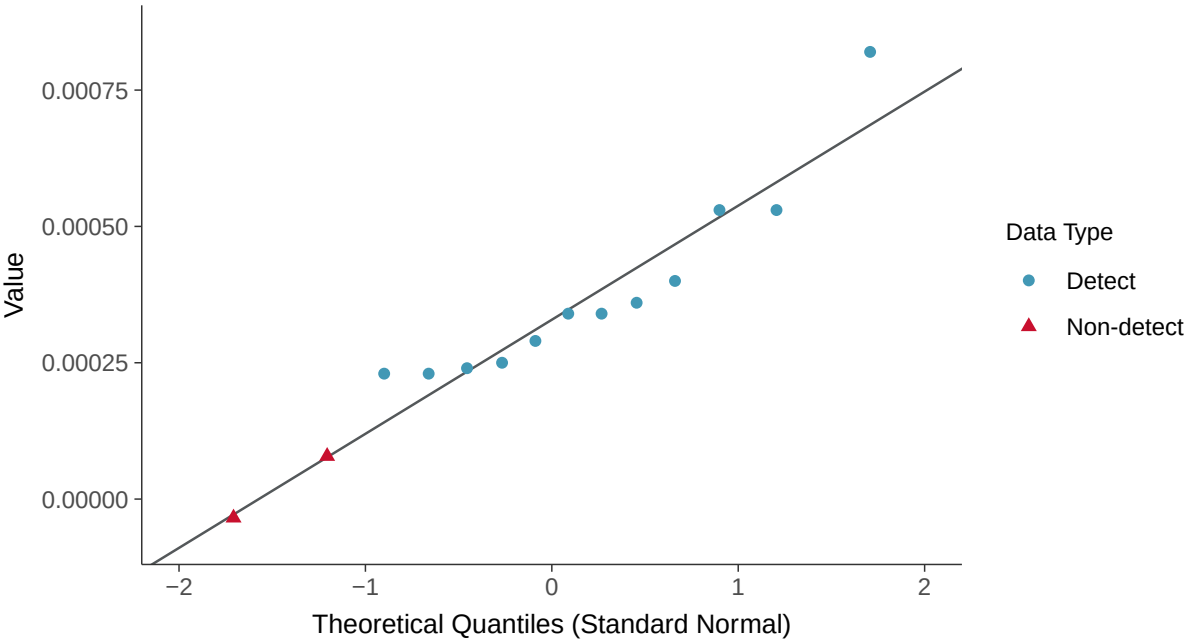






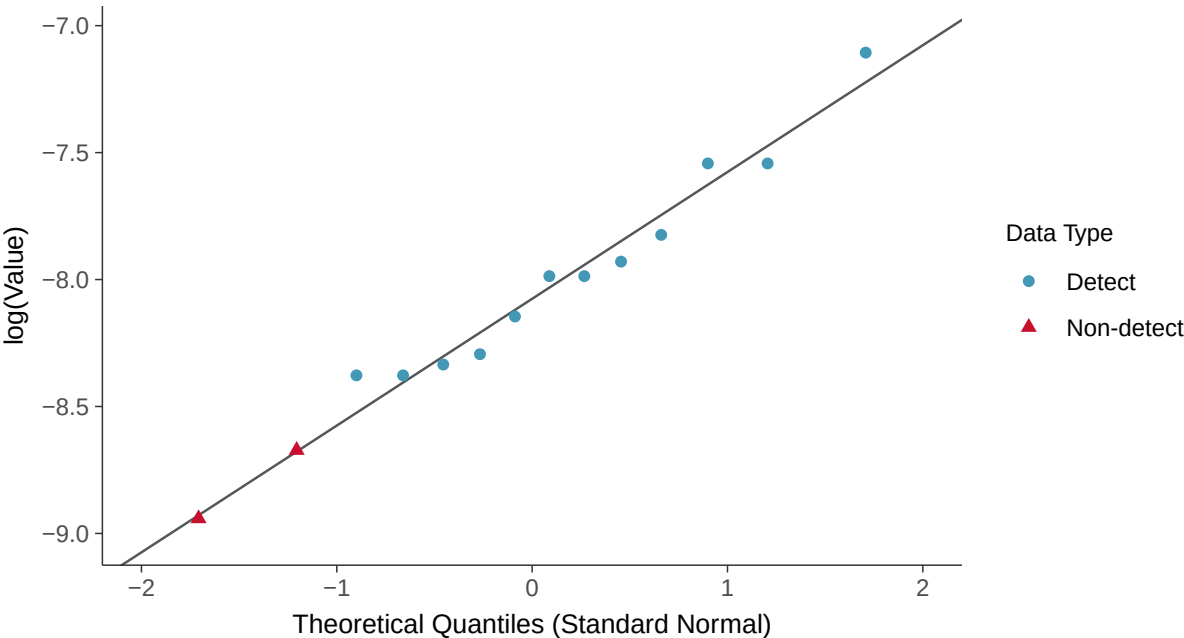
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-20 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

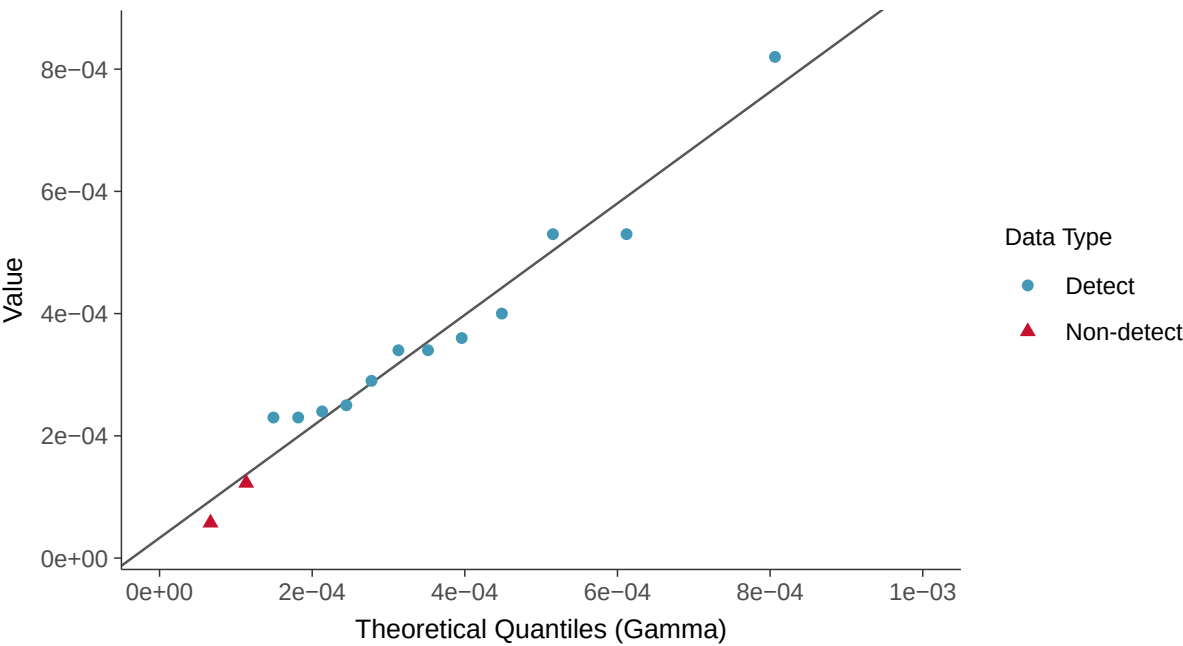
Copper, MW-20 (mg/L)





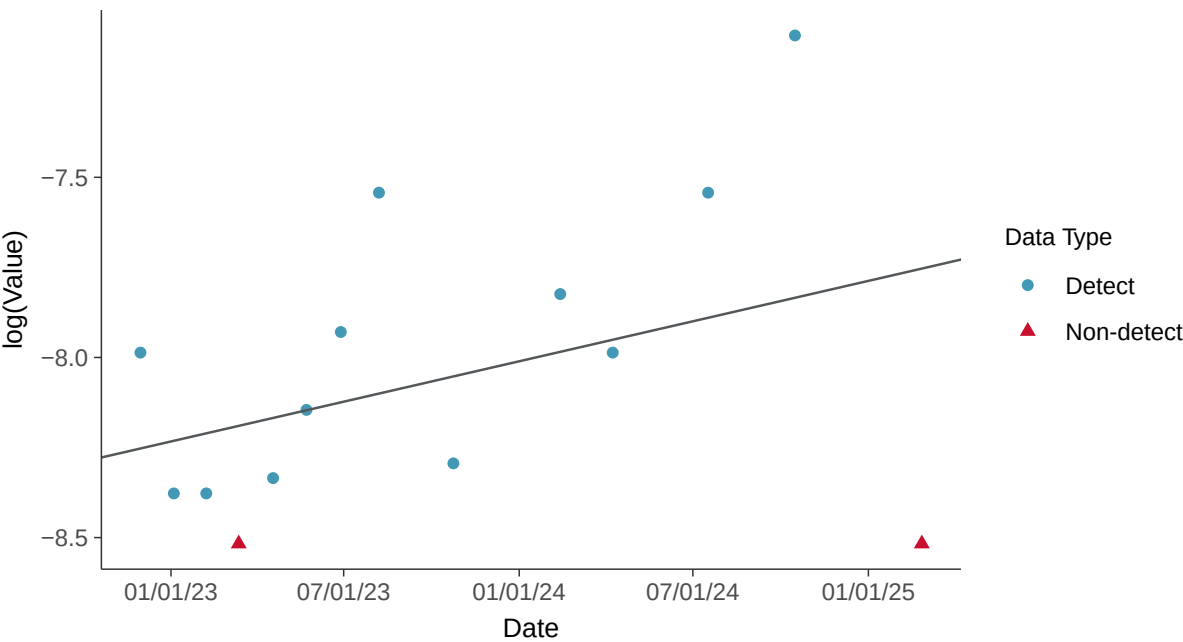
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-20 (mg/L)



Trend Regression: Lognormal MLE

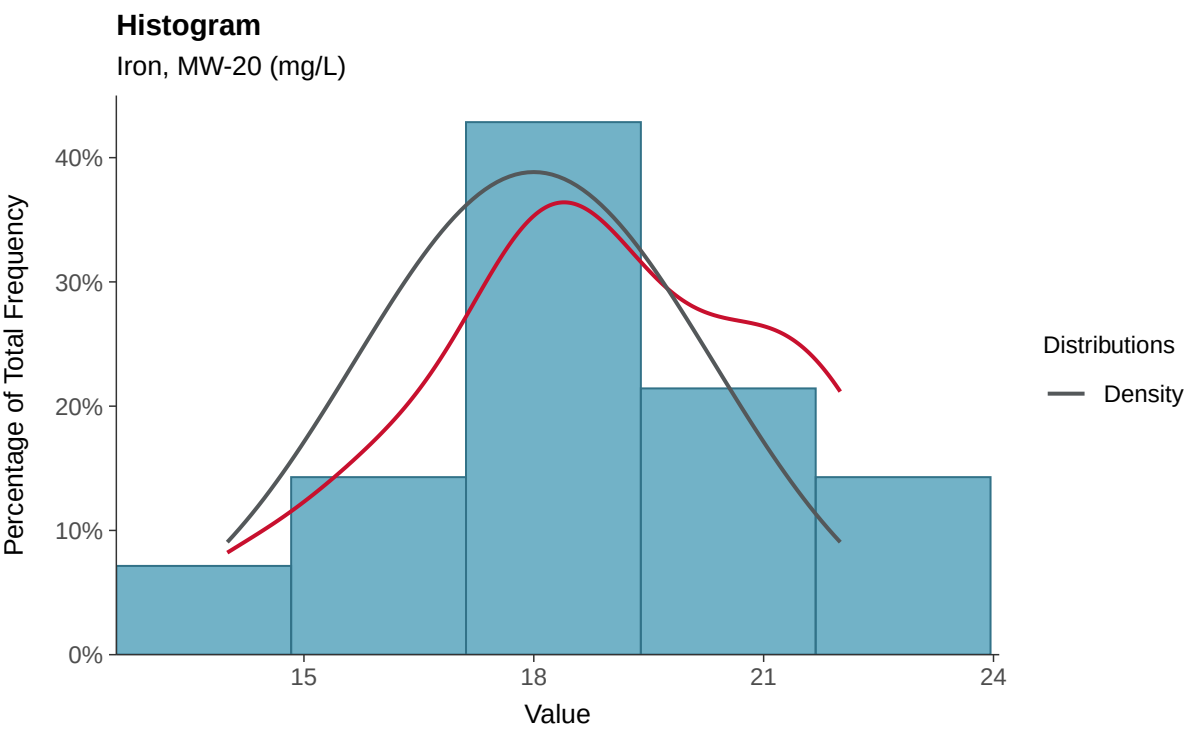
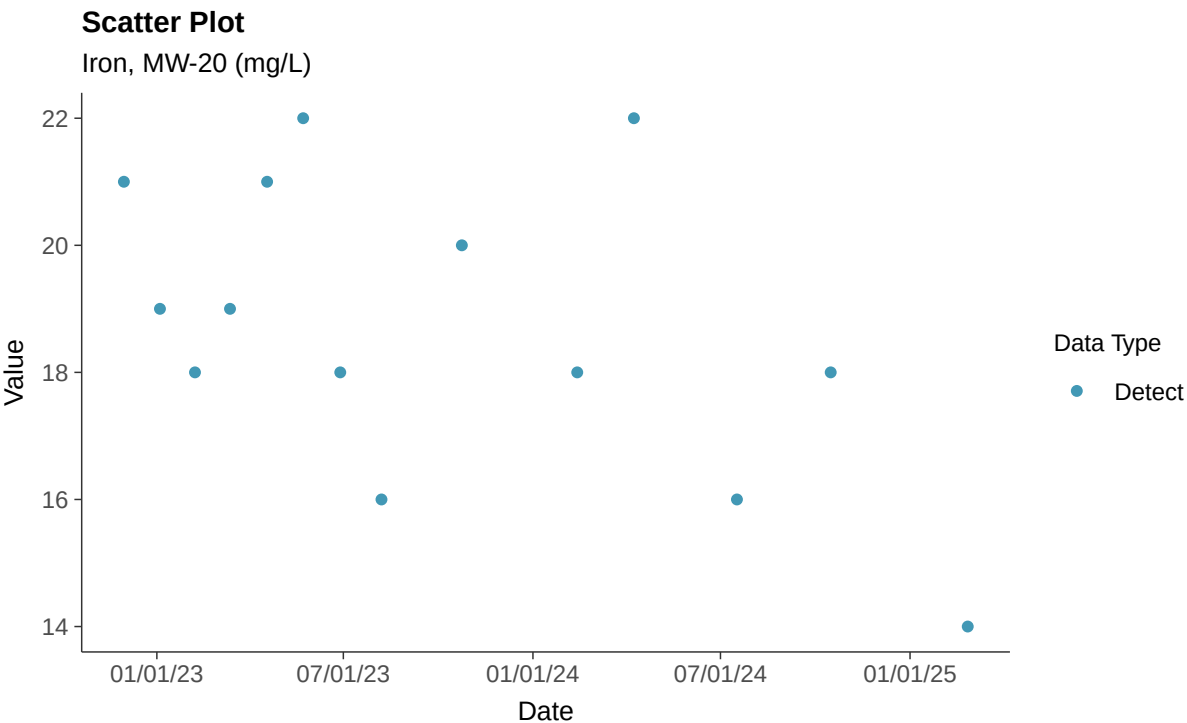
Copper, MW-20 (mg/L)

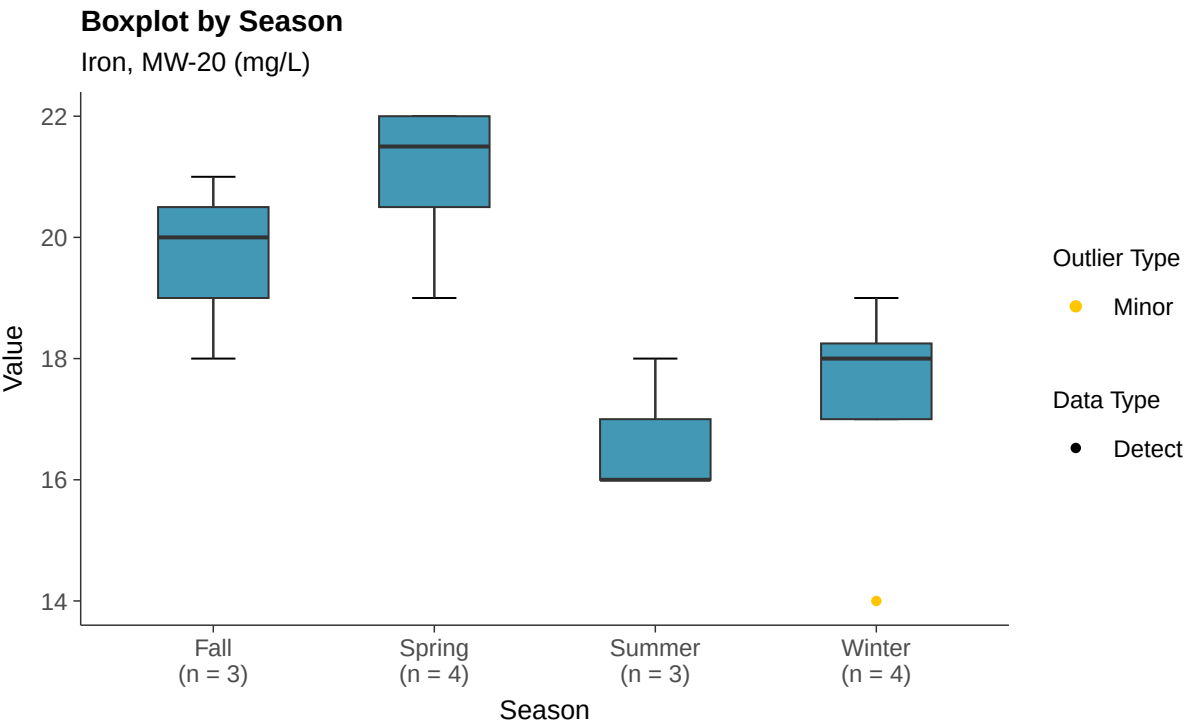
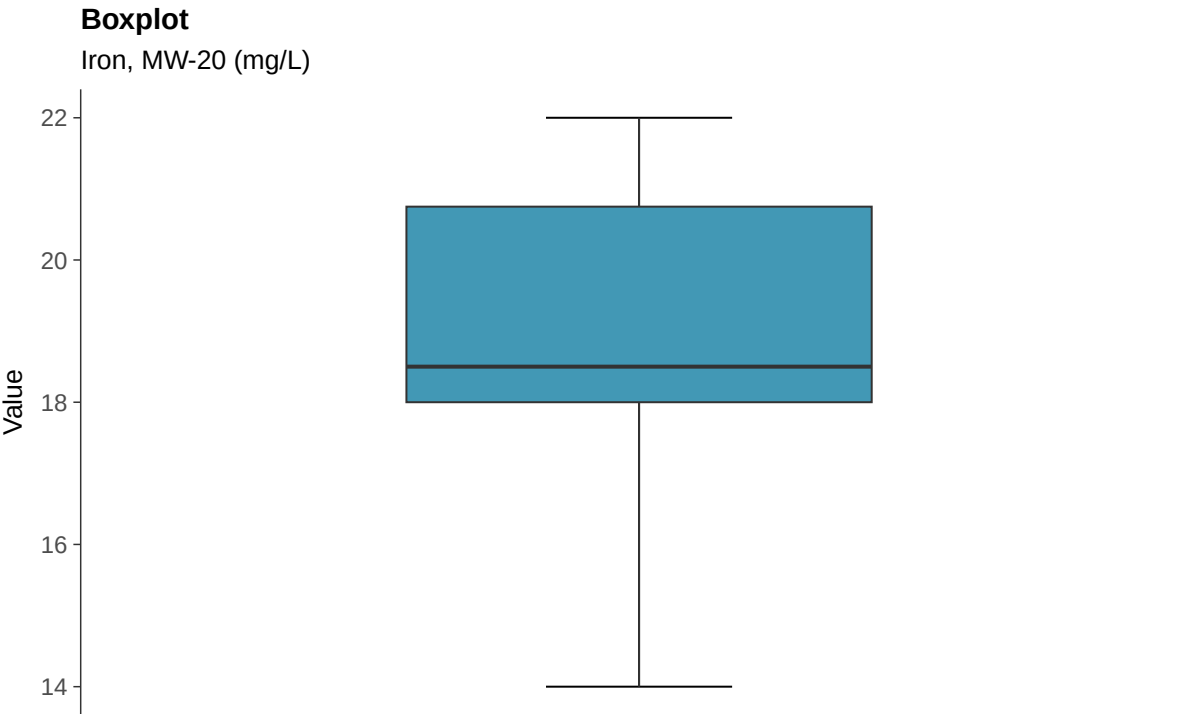


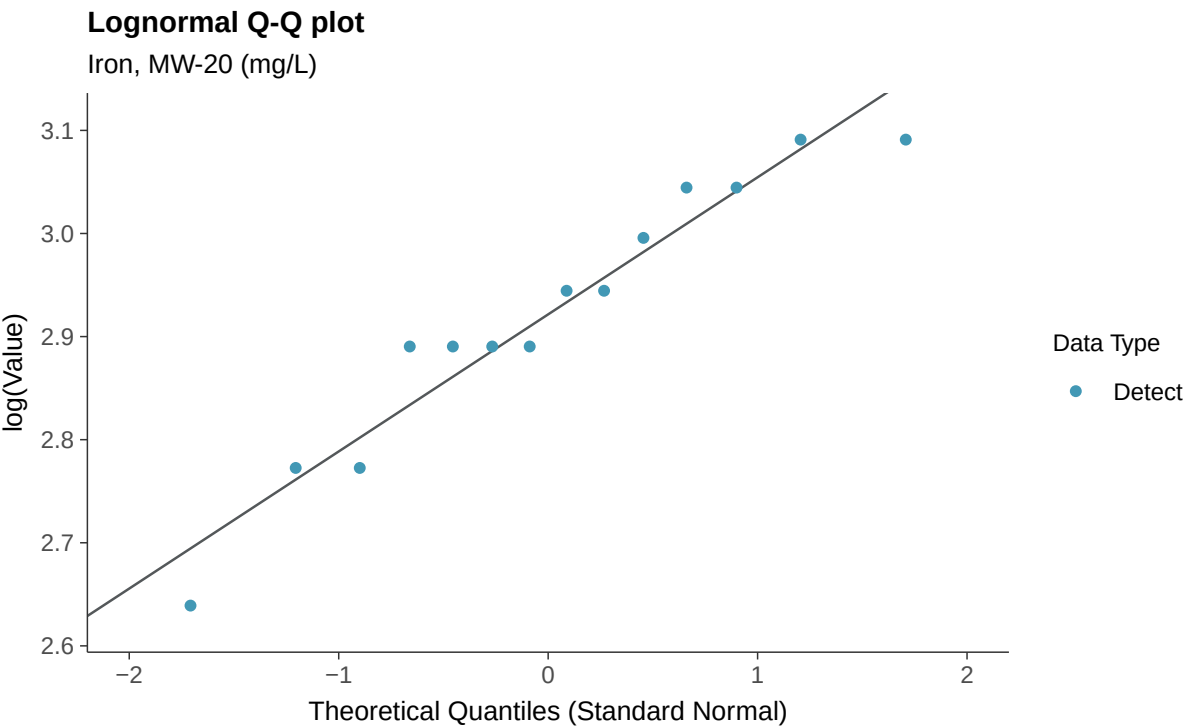
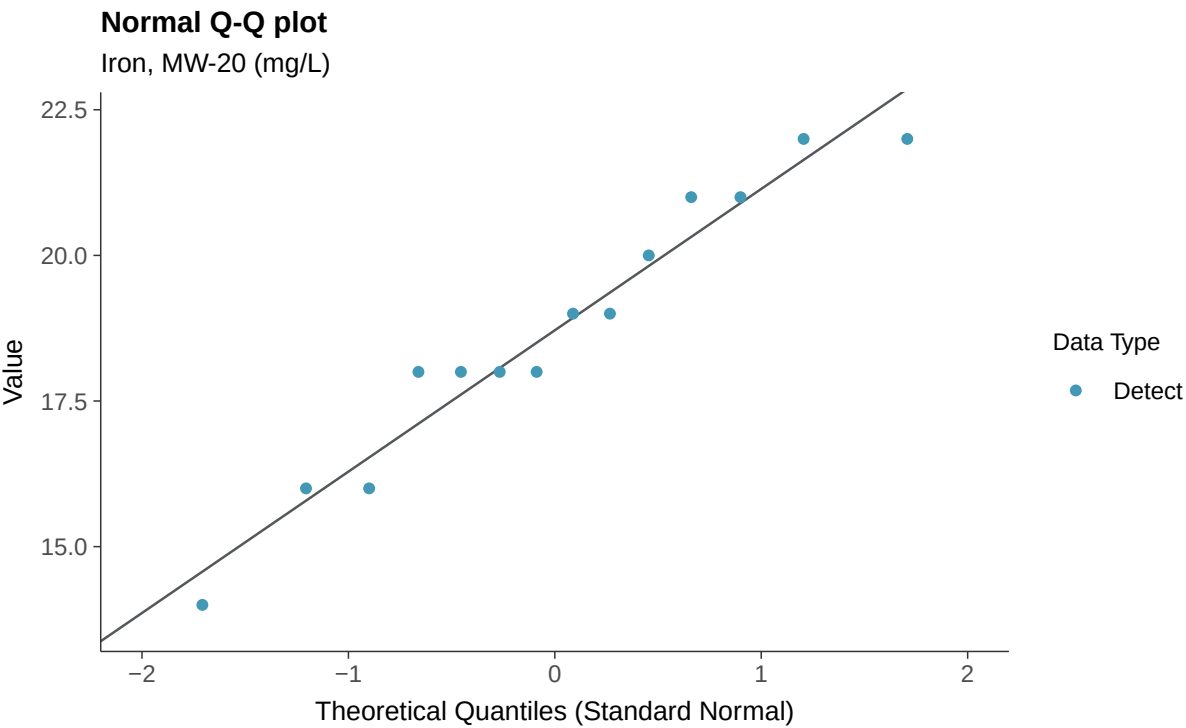


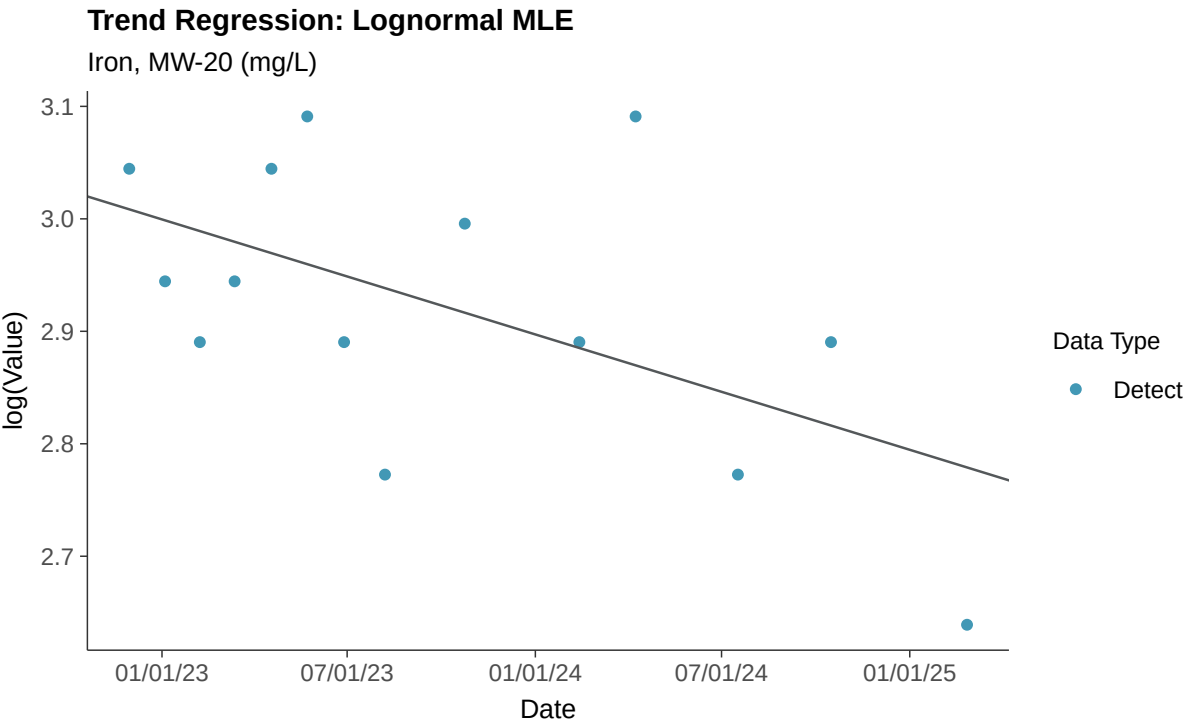
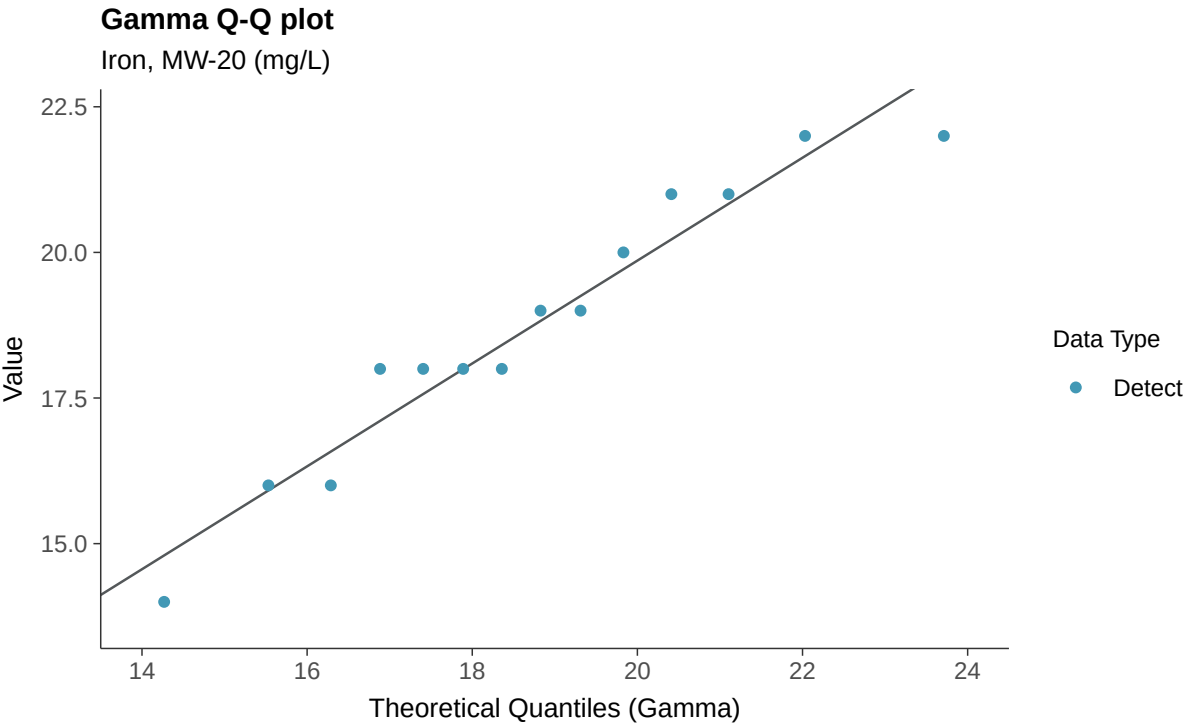
Part 115: Iron, MW-20

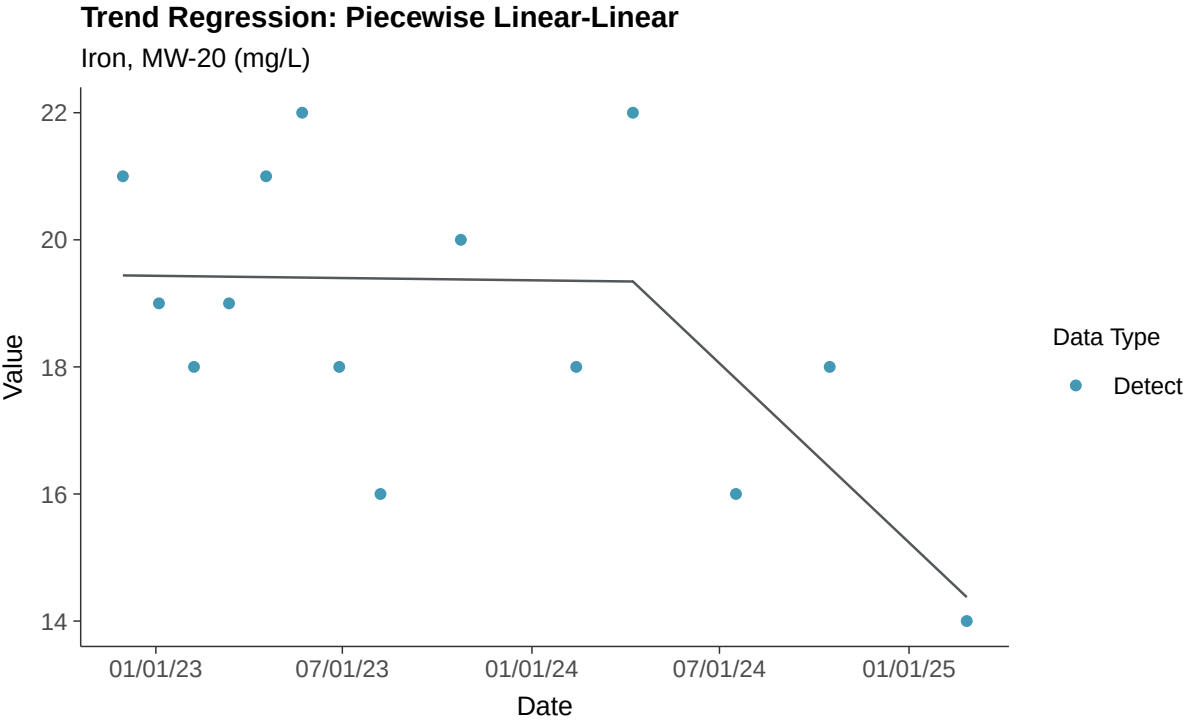
ID: 30_1_5_114







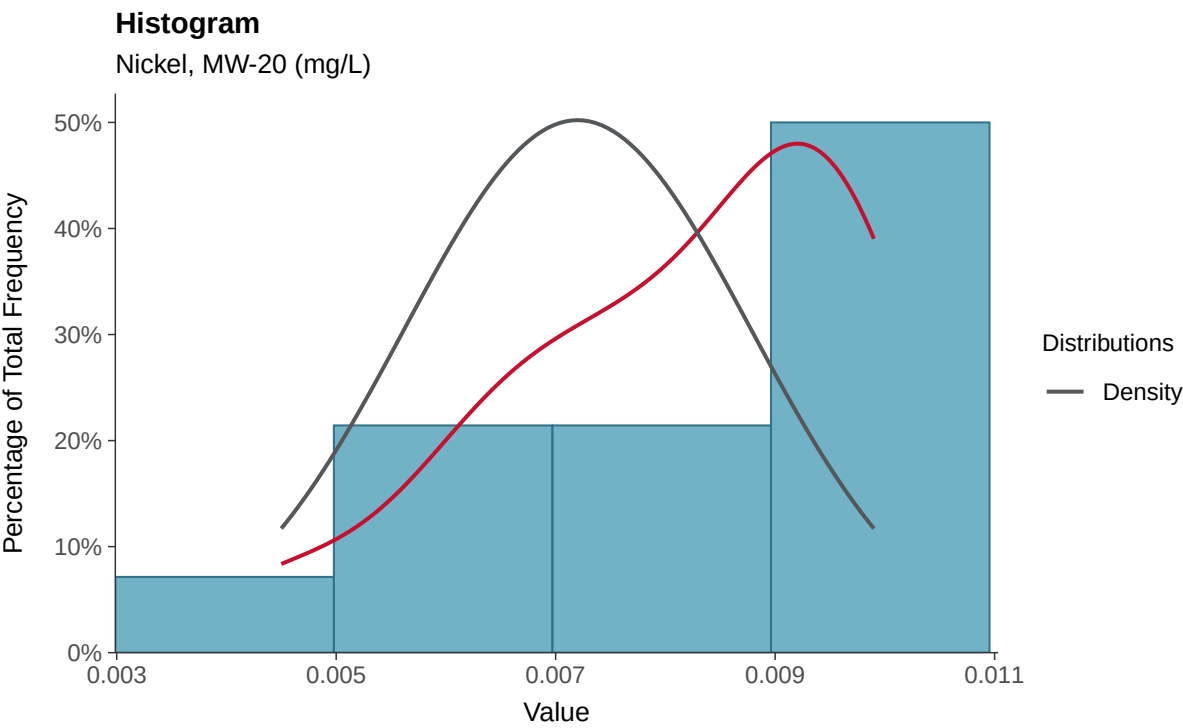
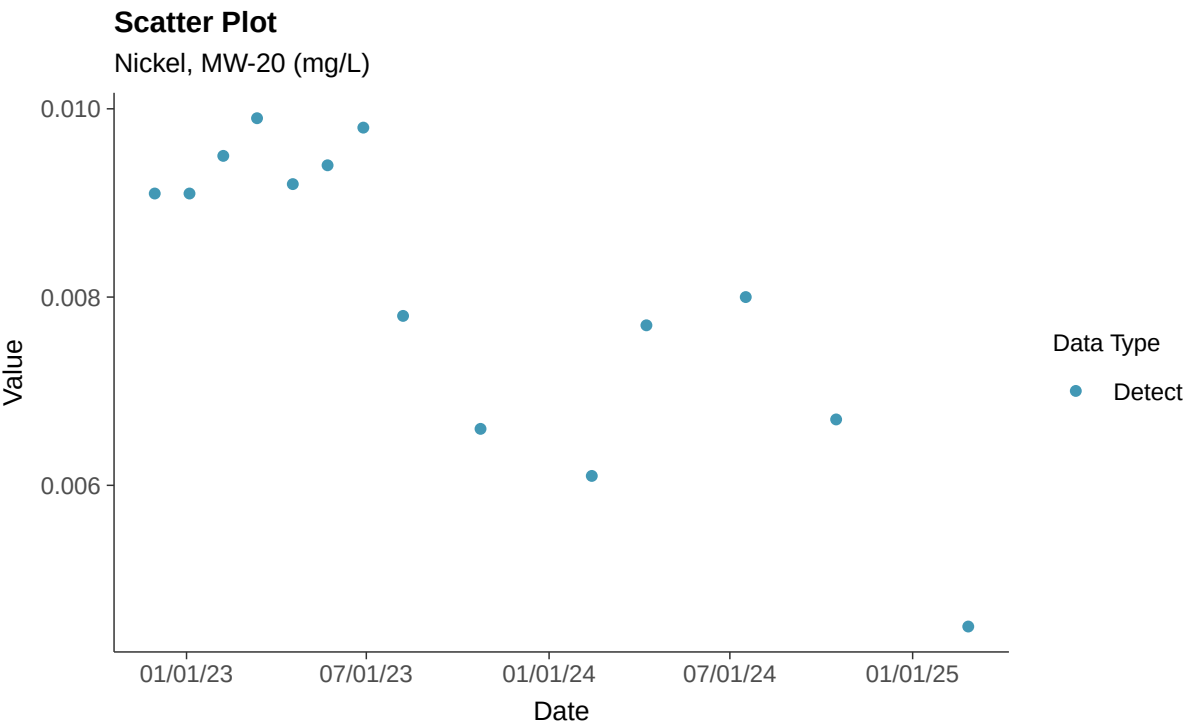


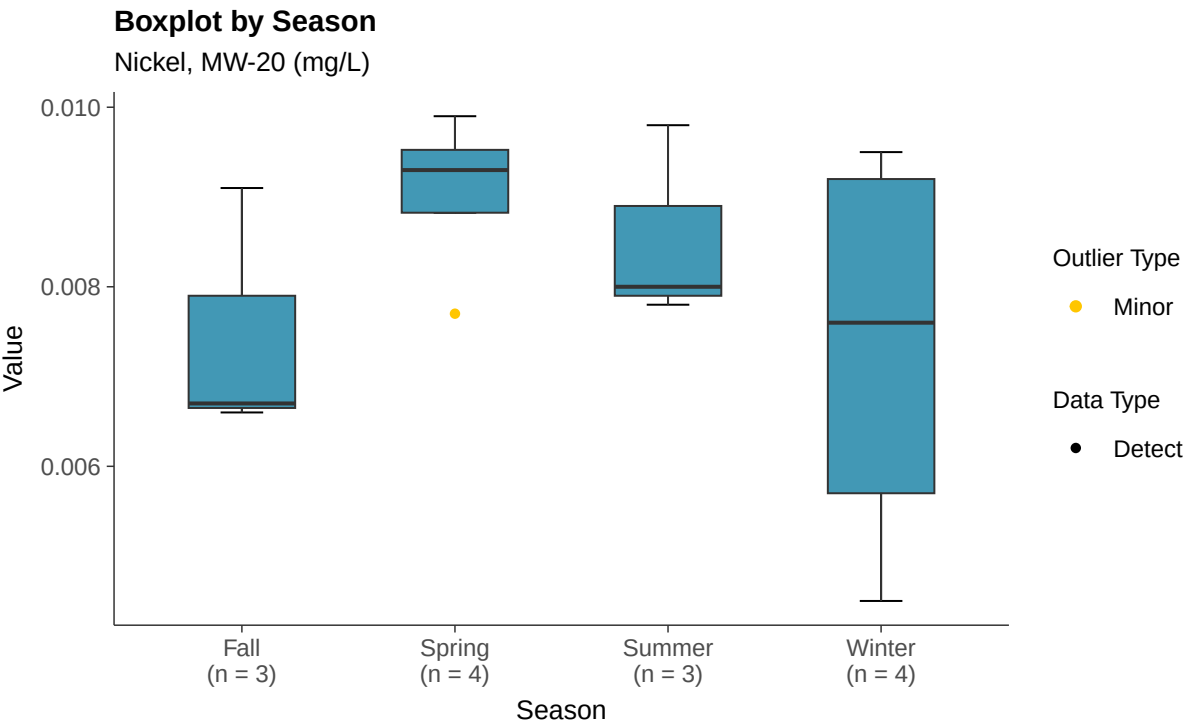
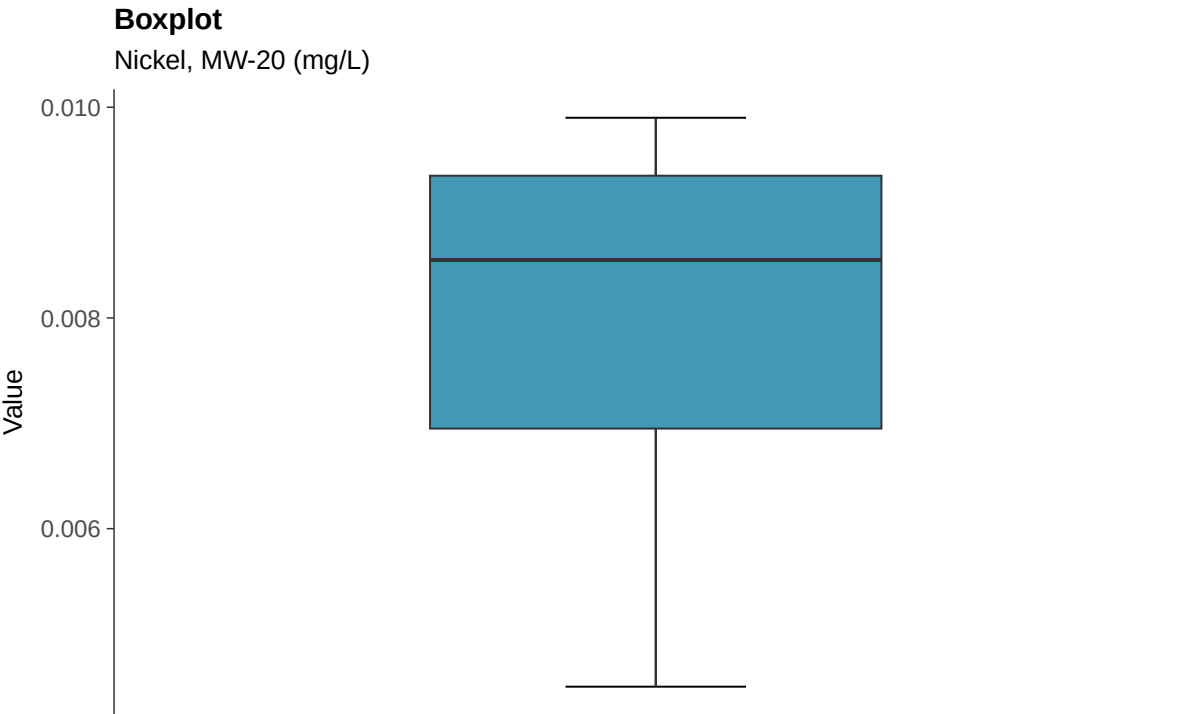


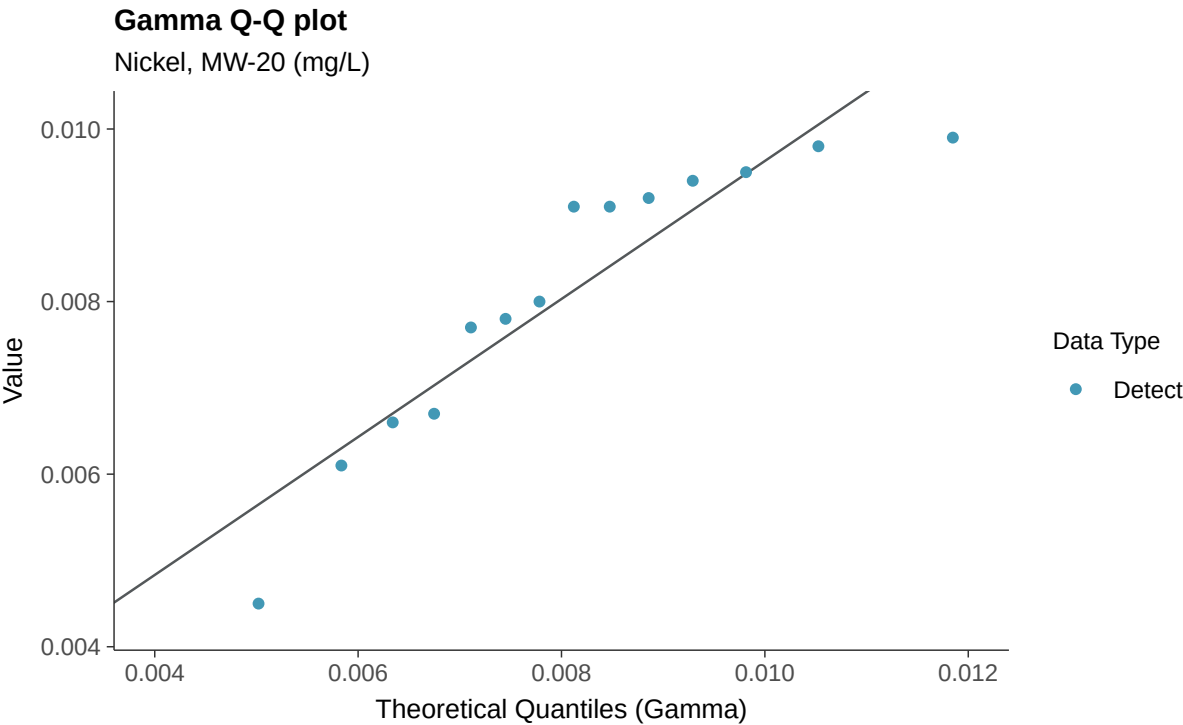
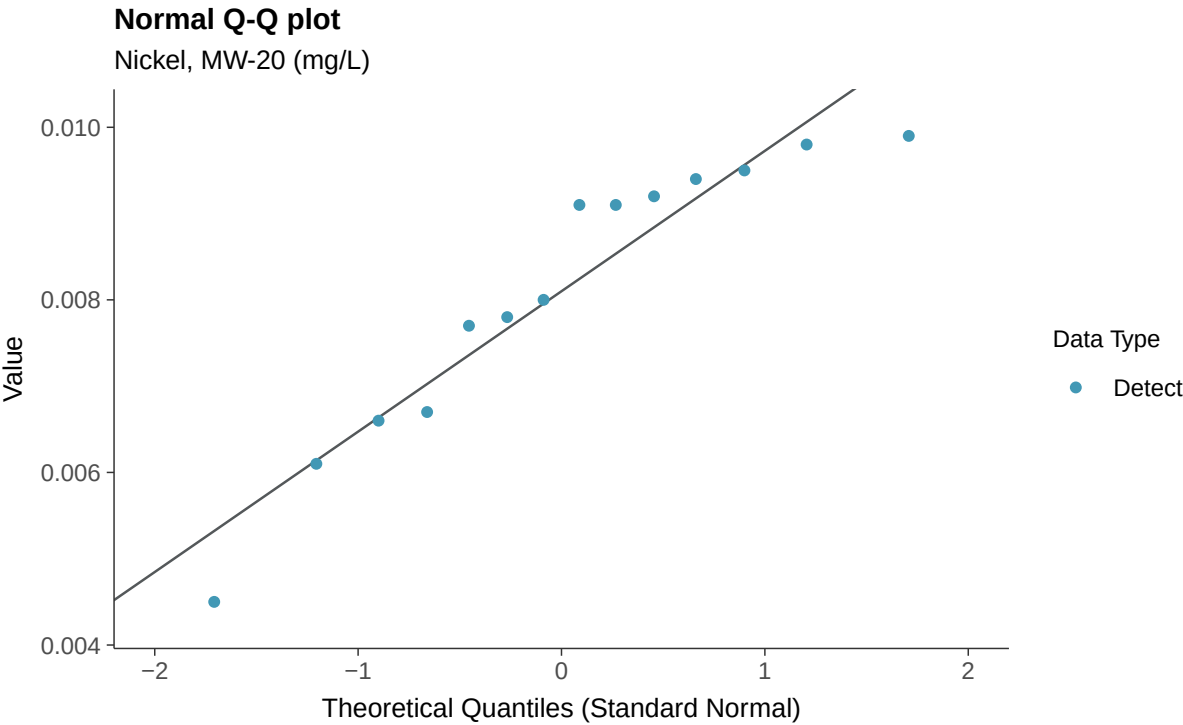


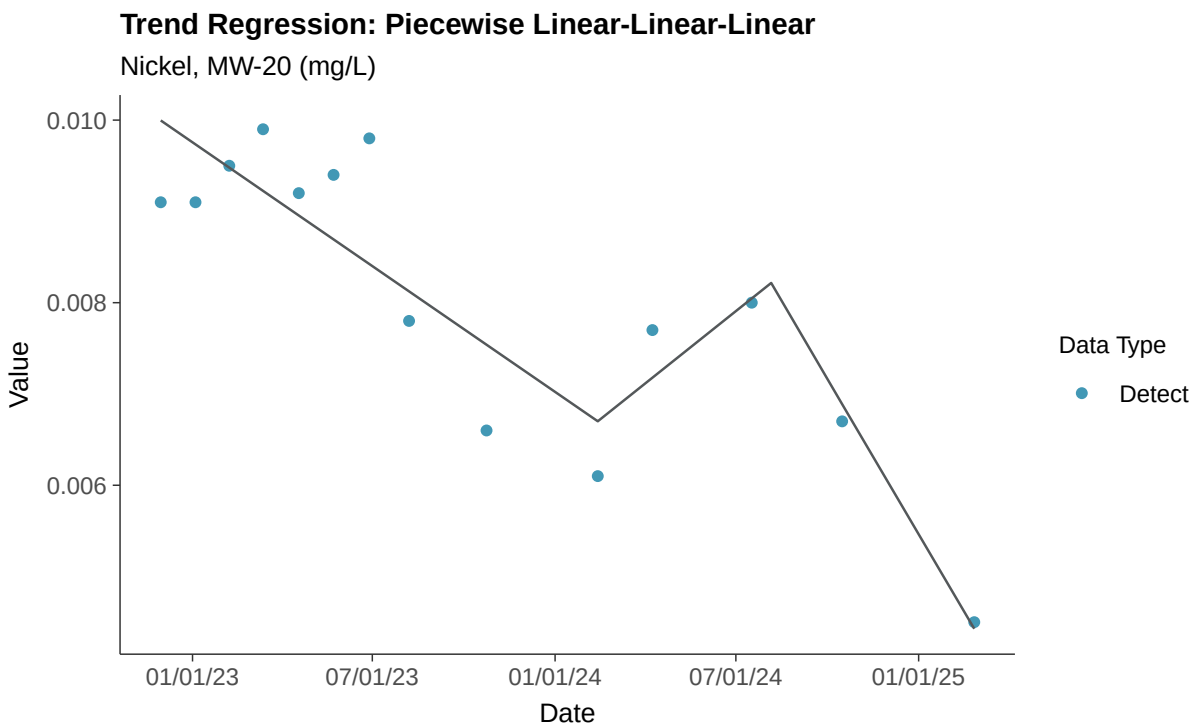
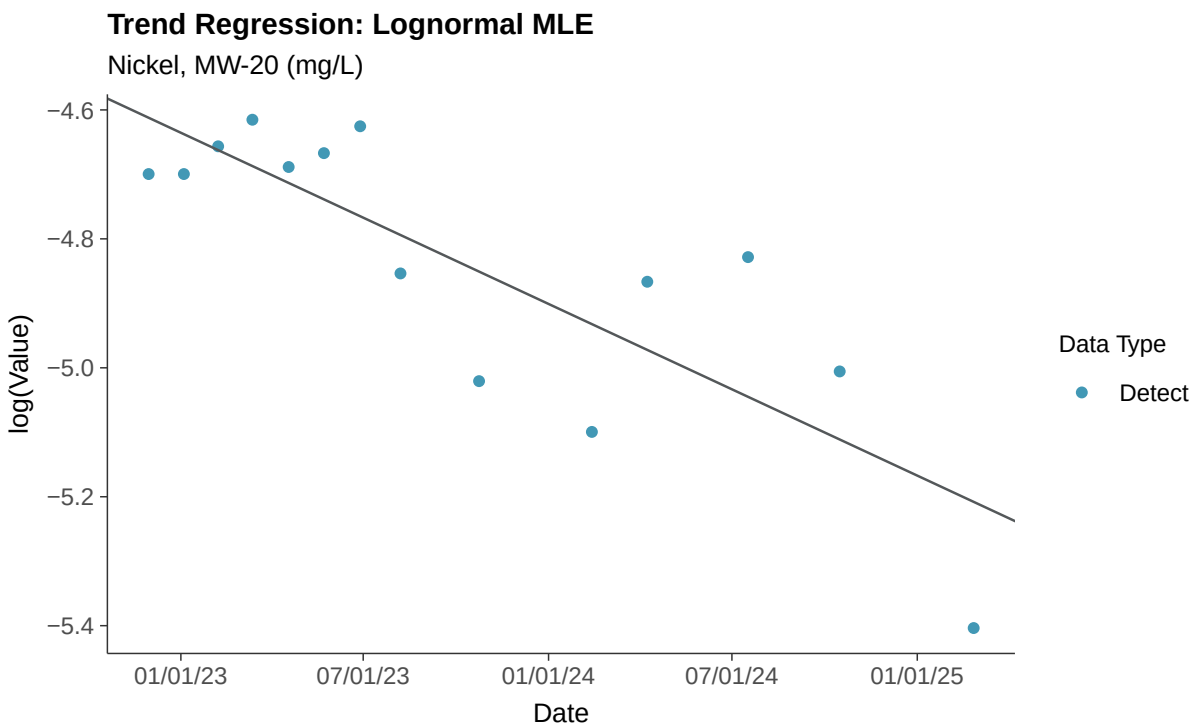
Part 115: Nickel, MW-20

ID: 30_1_5_119





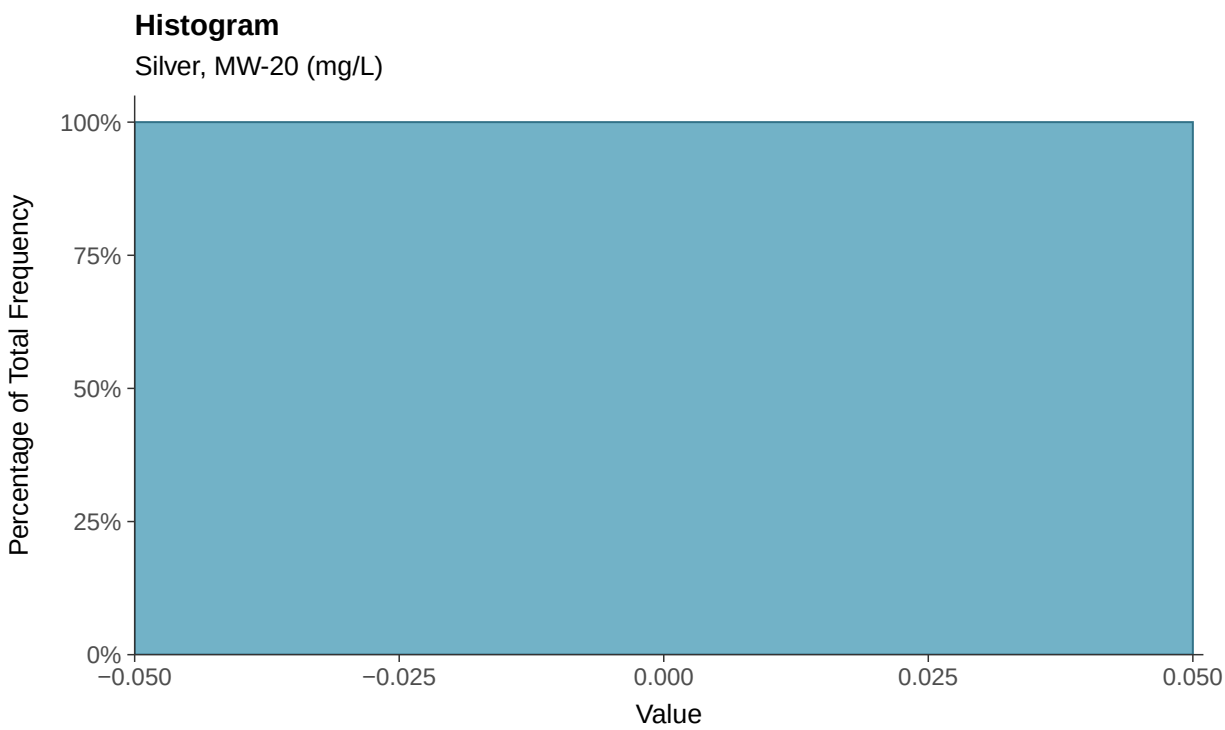
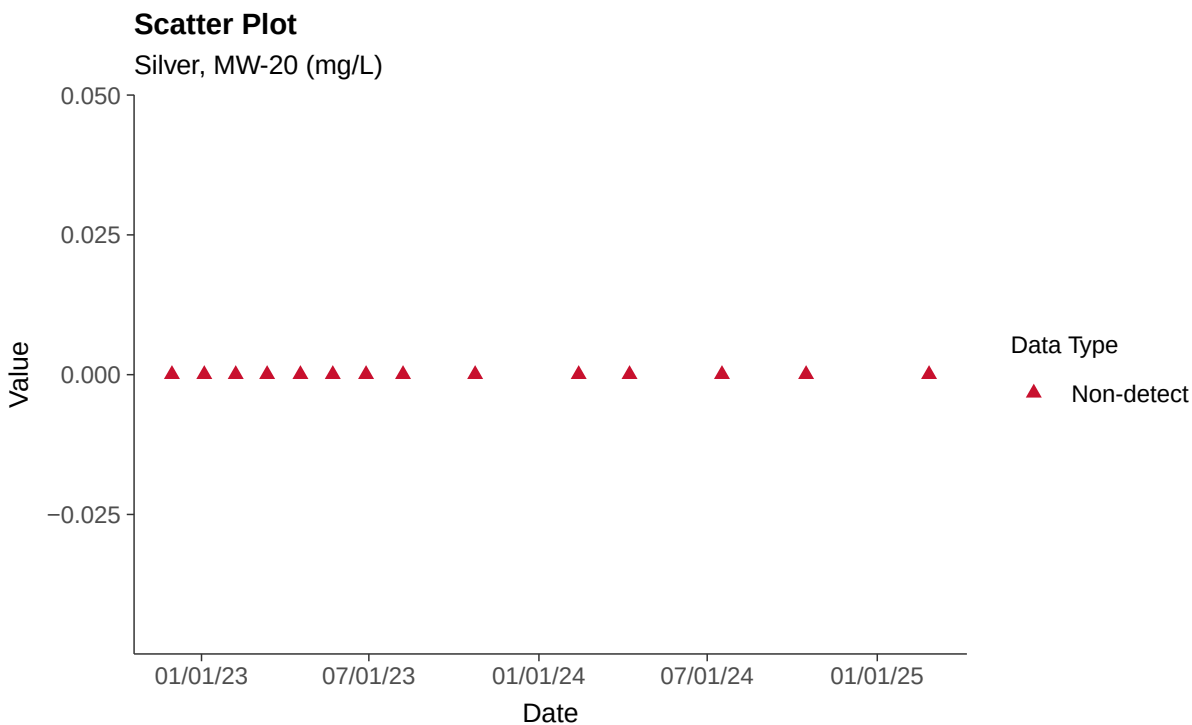


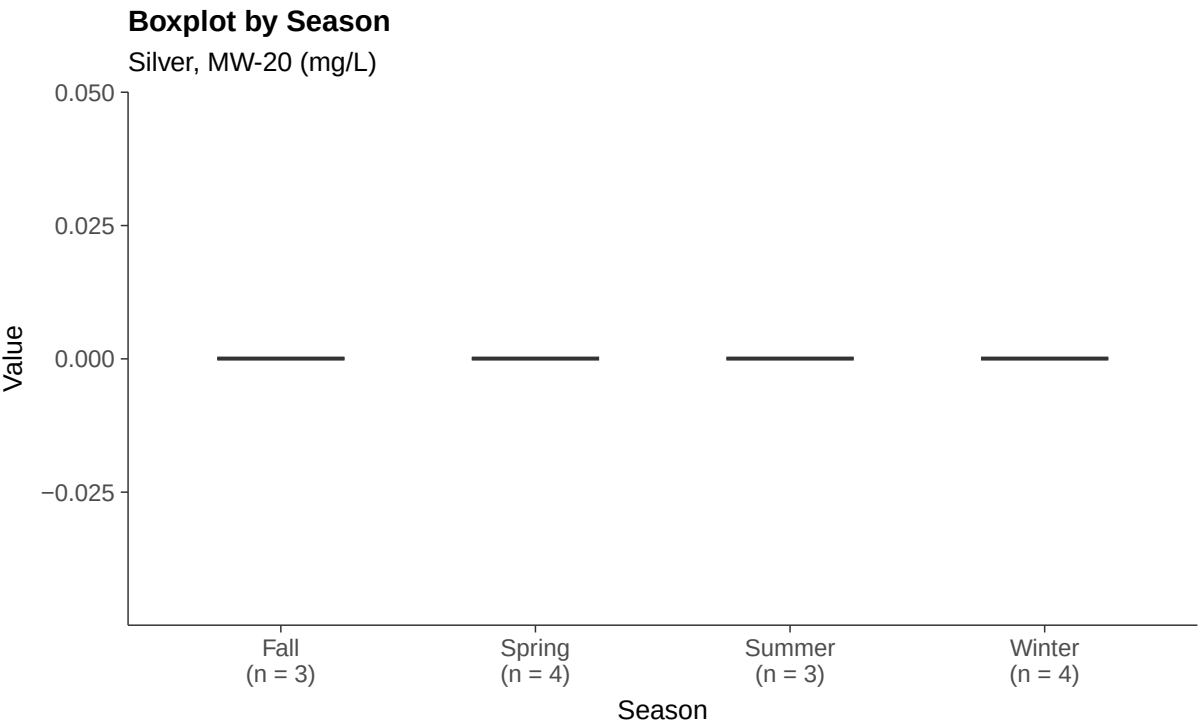
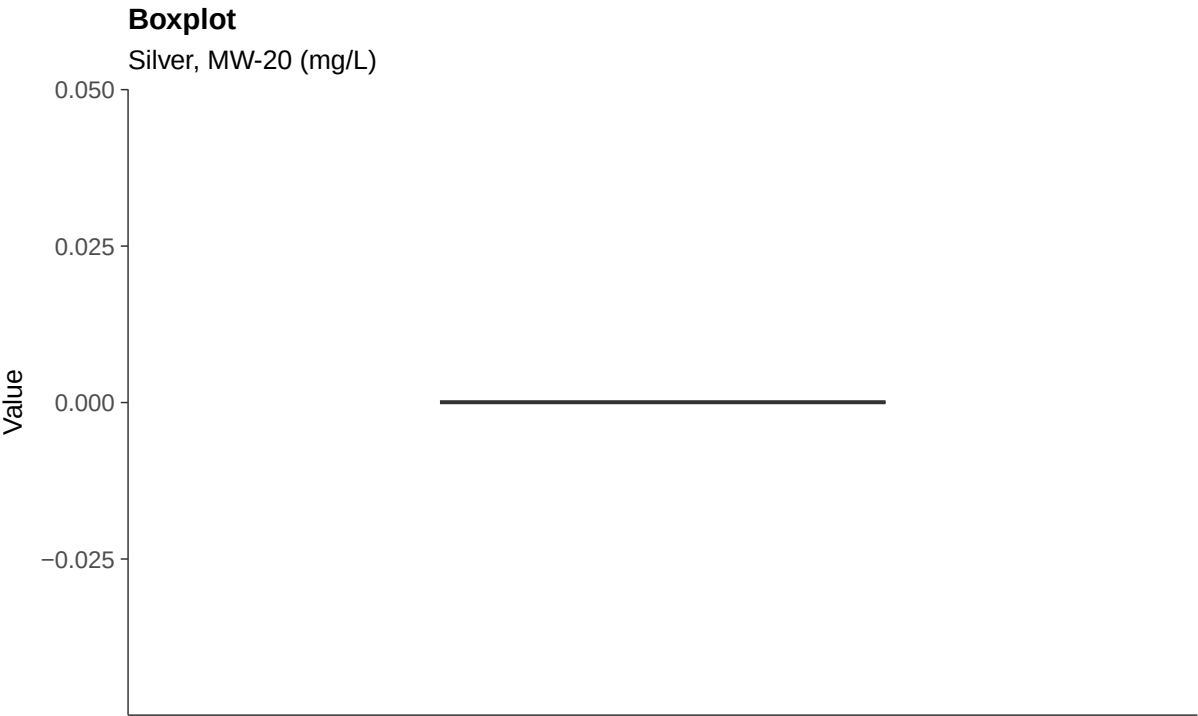




Part 115: Silver, MW-20

ID: 30_1_5_123

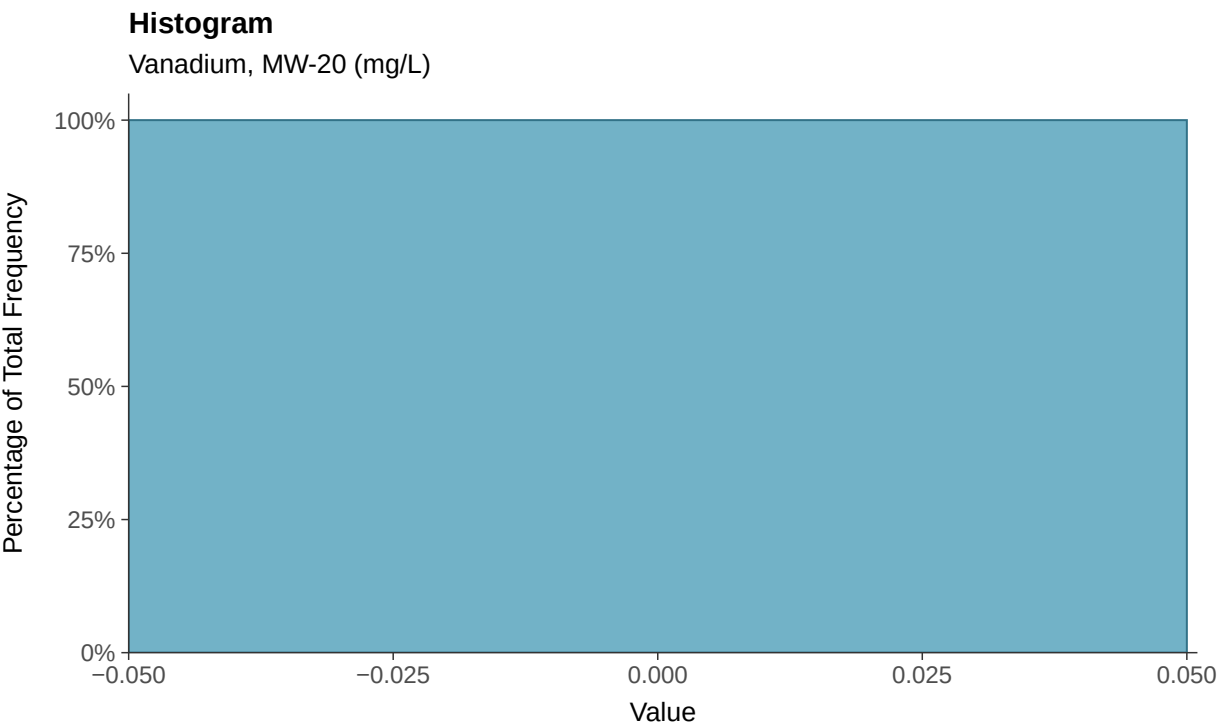
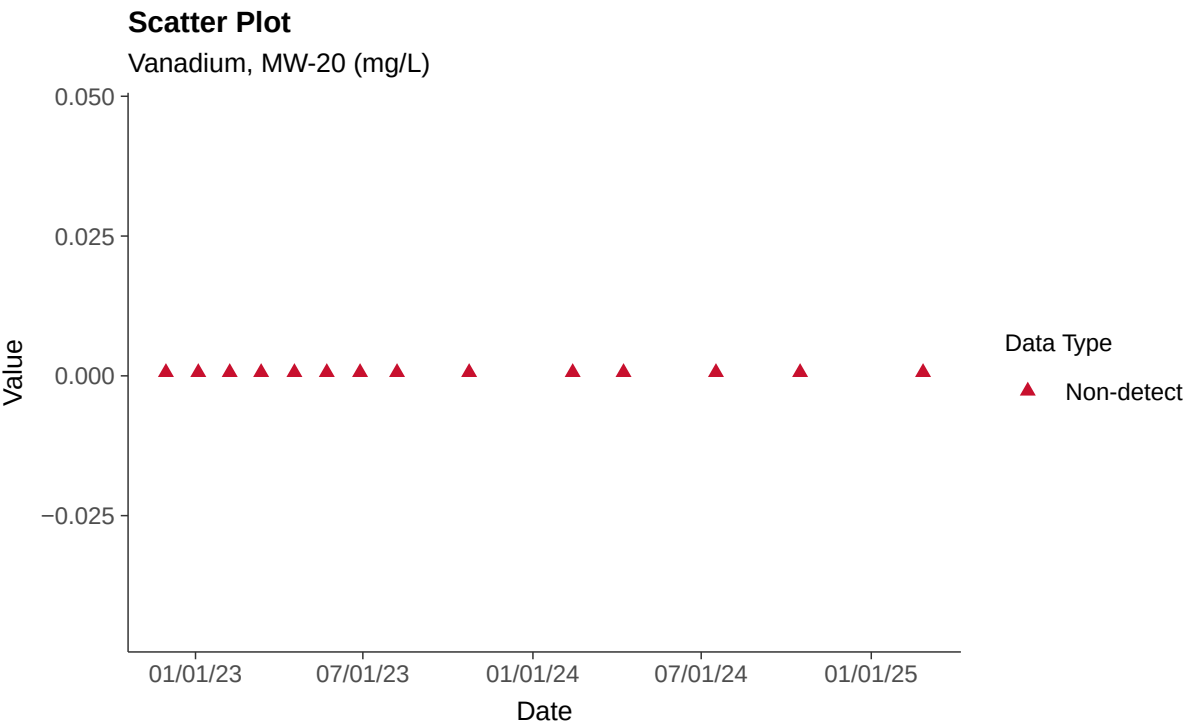


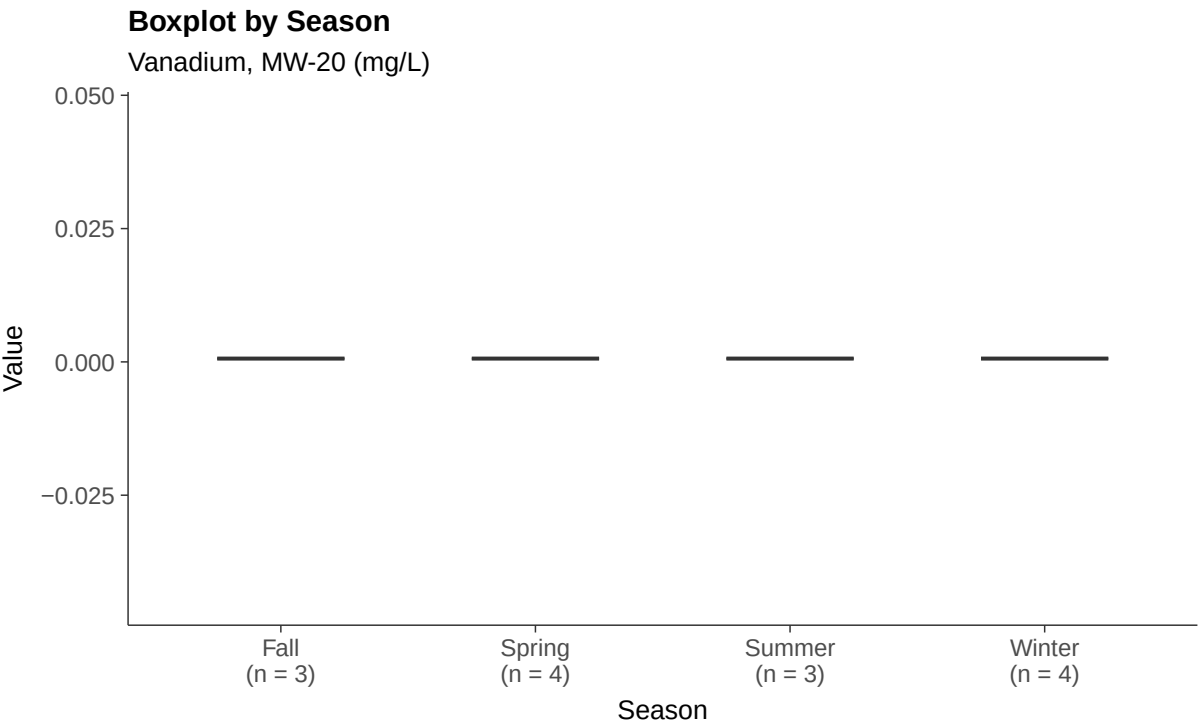
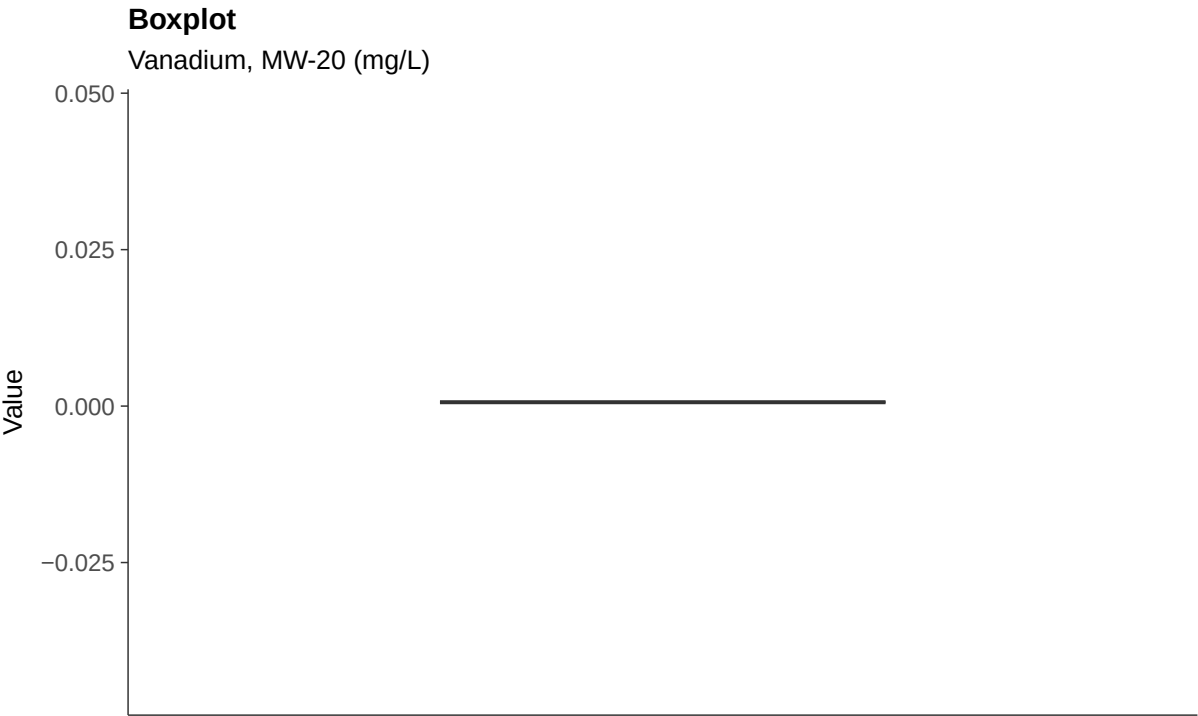




Part 115: Vanadium, MW-20

ID: 30_1_5_128

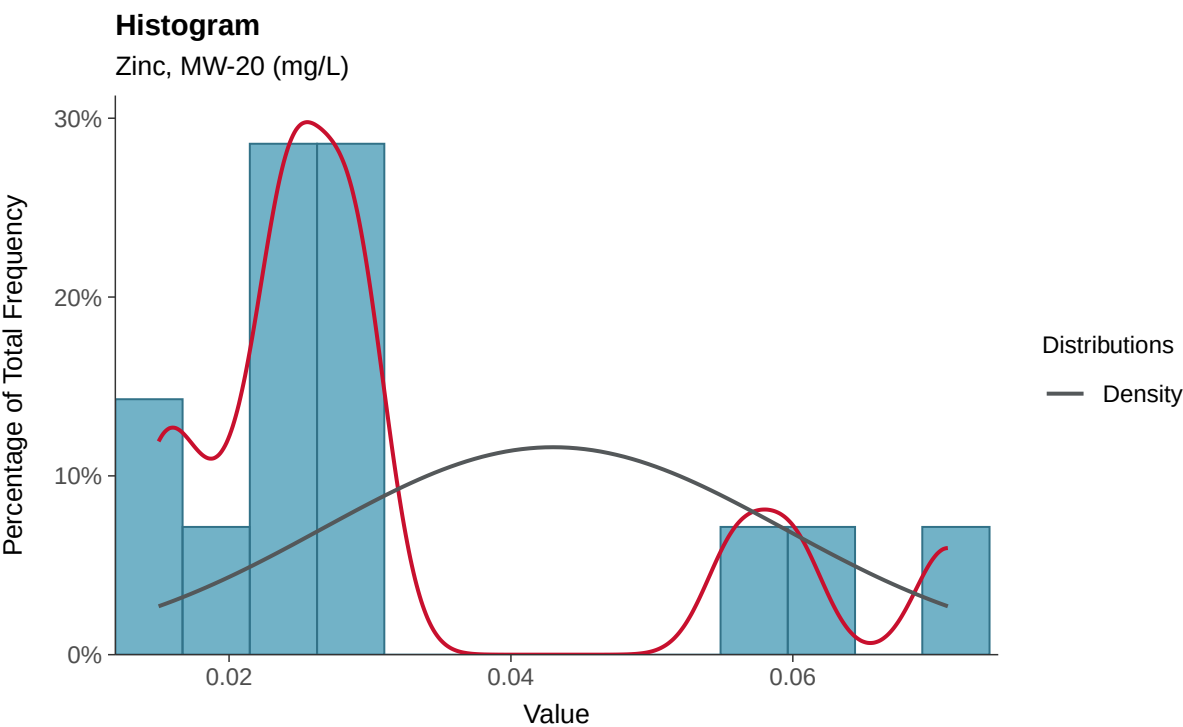
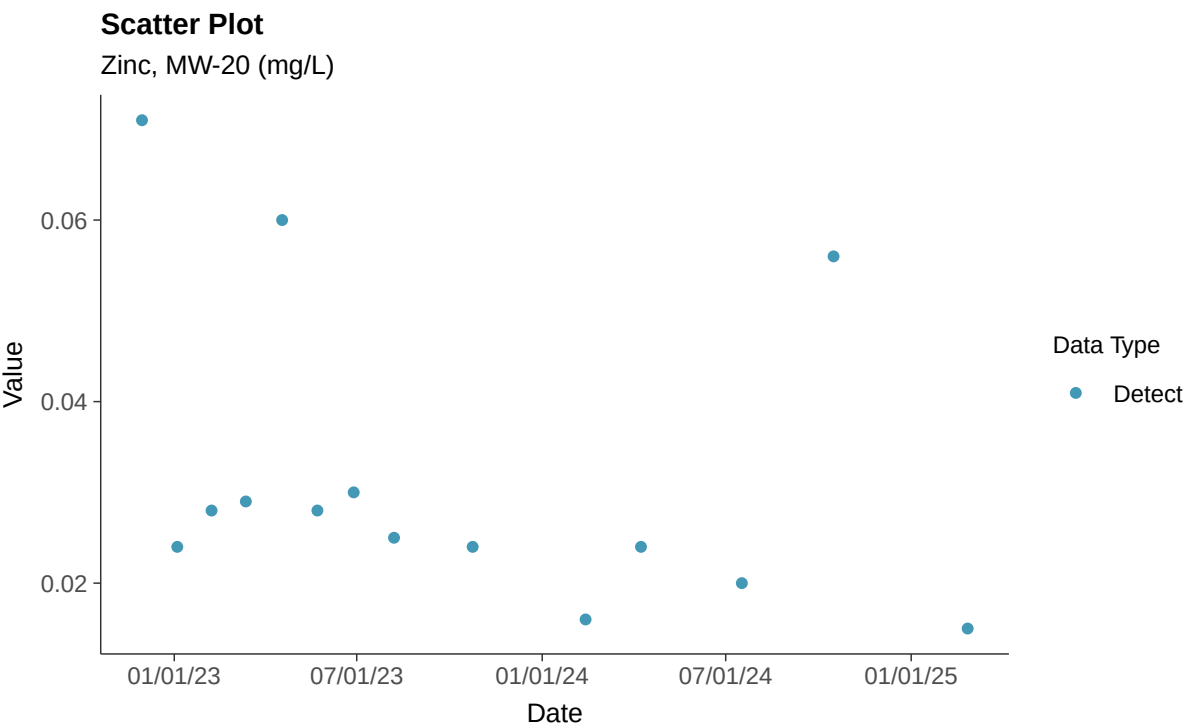


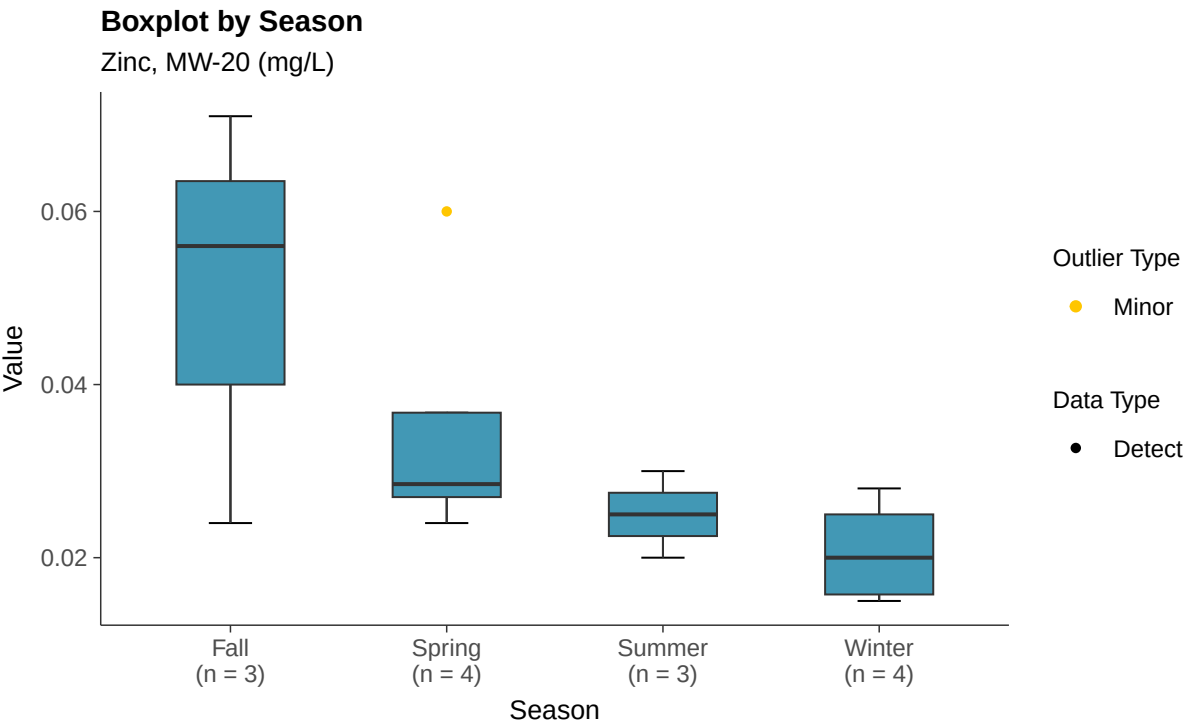
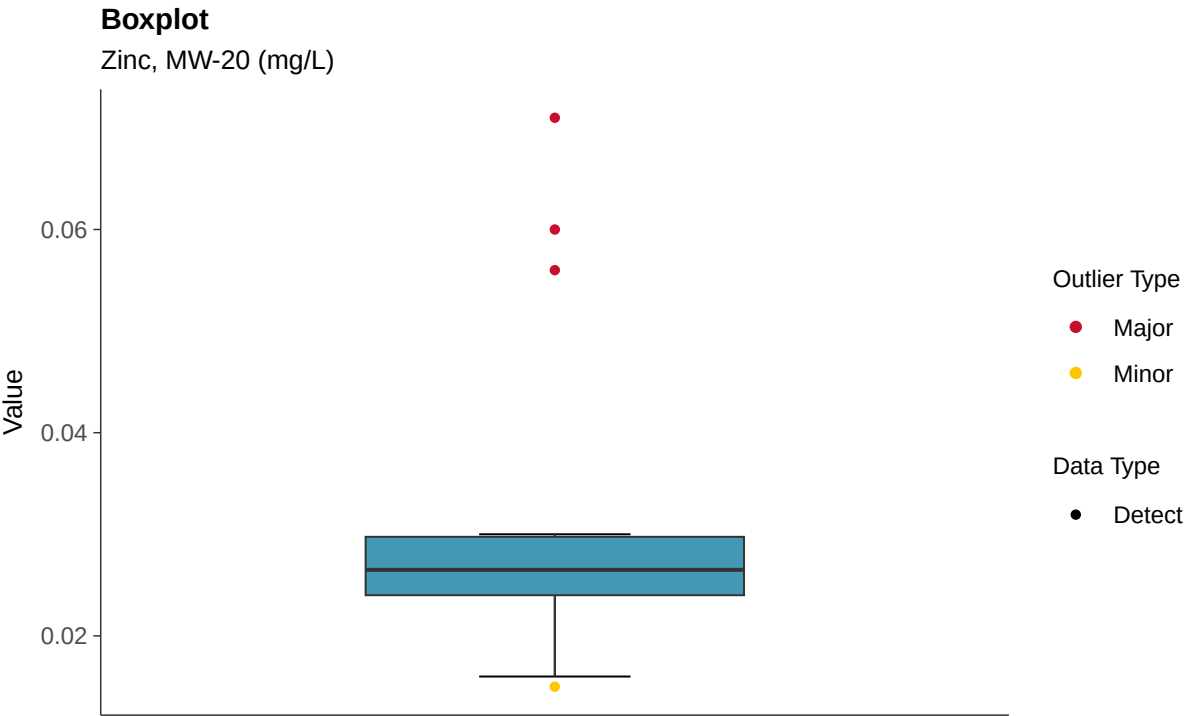


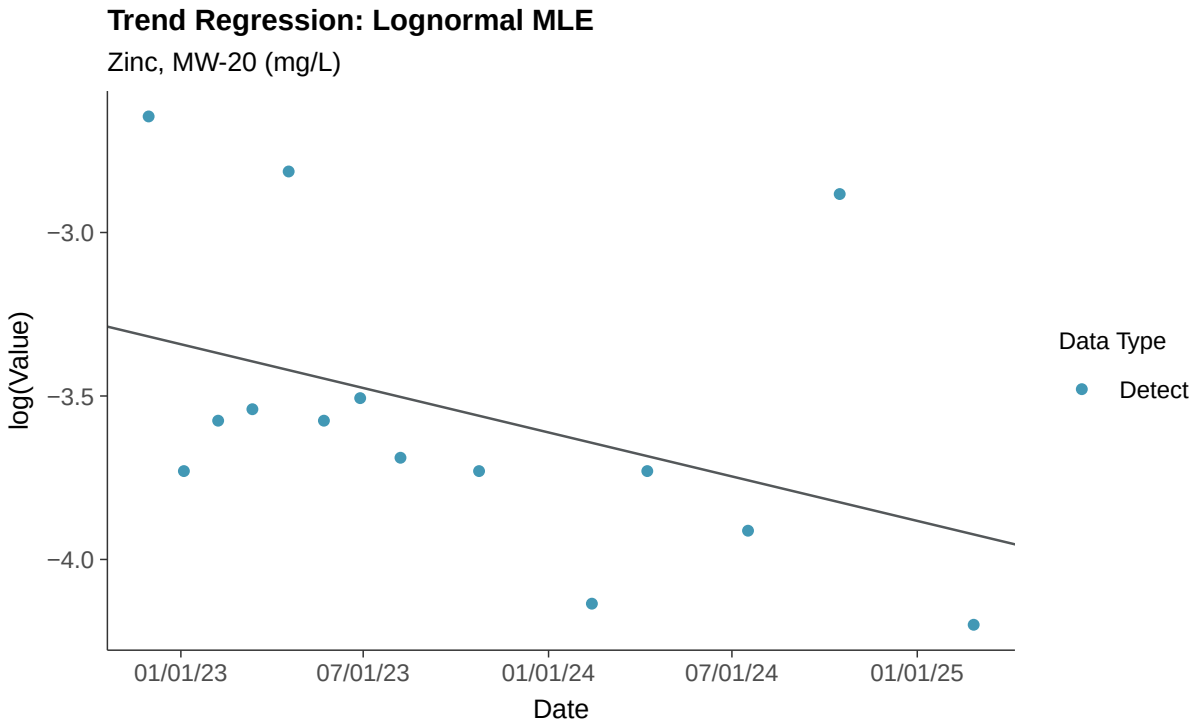
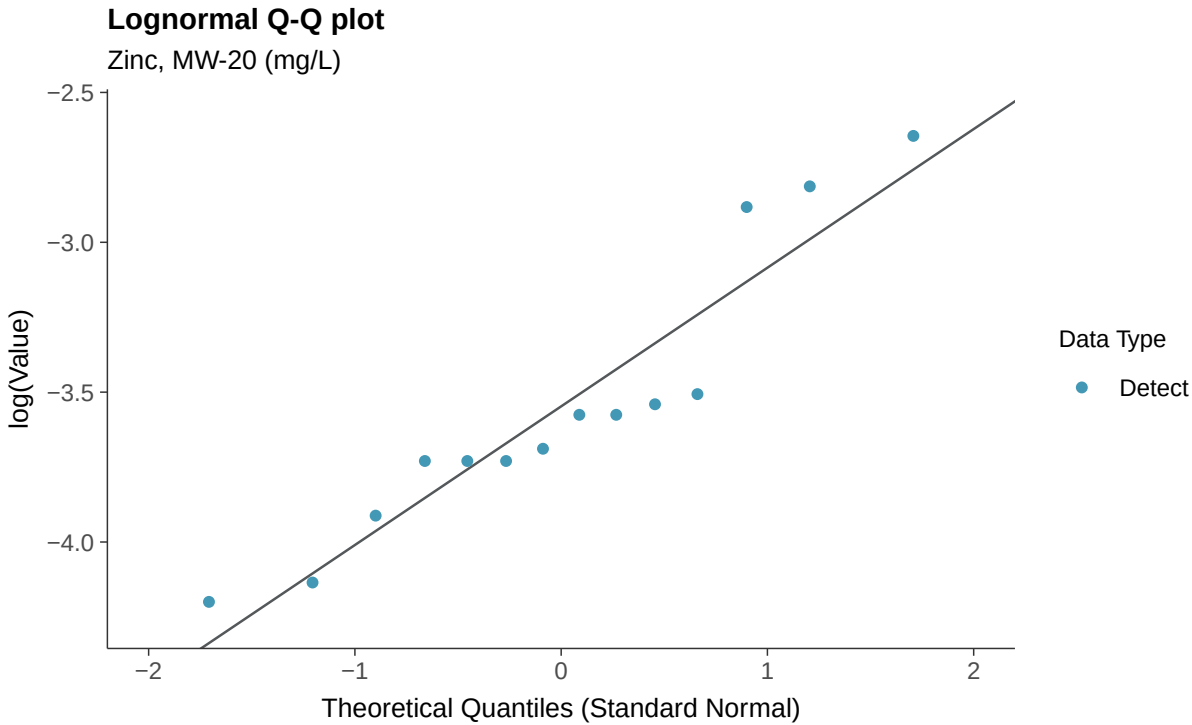


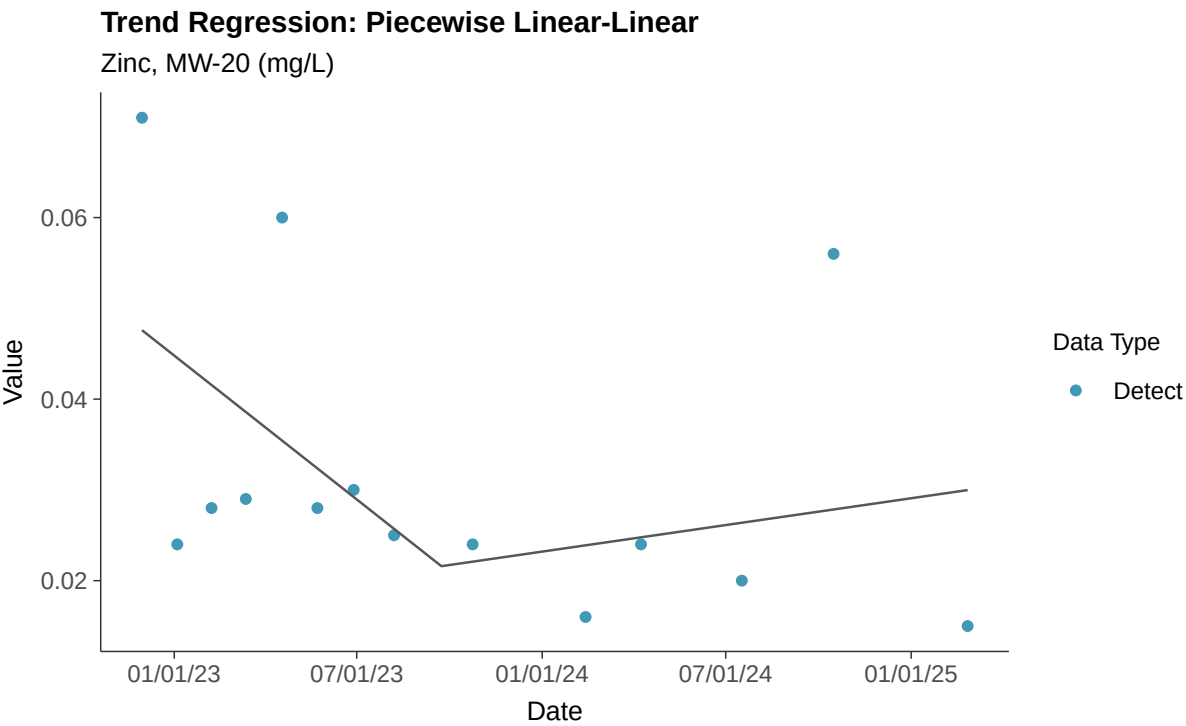
Part 115: Zinc, MW-20

ID: 30_1_5_129





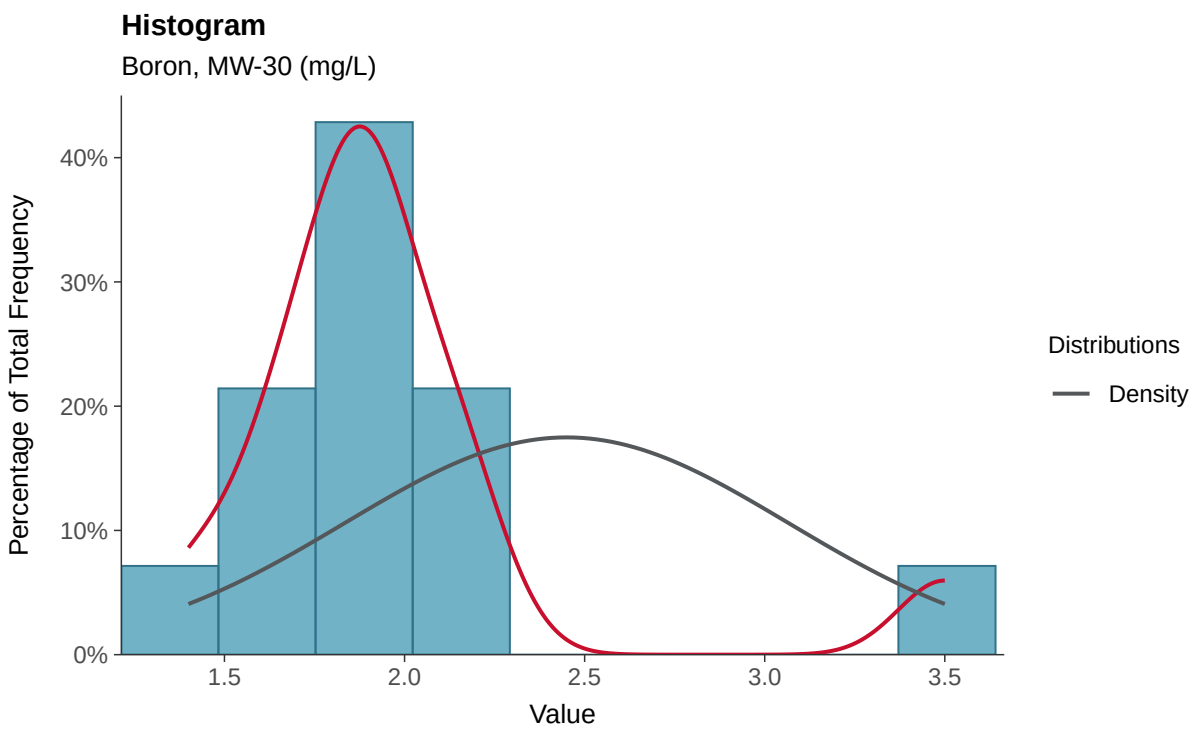
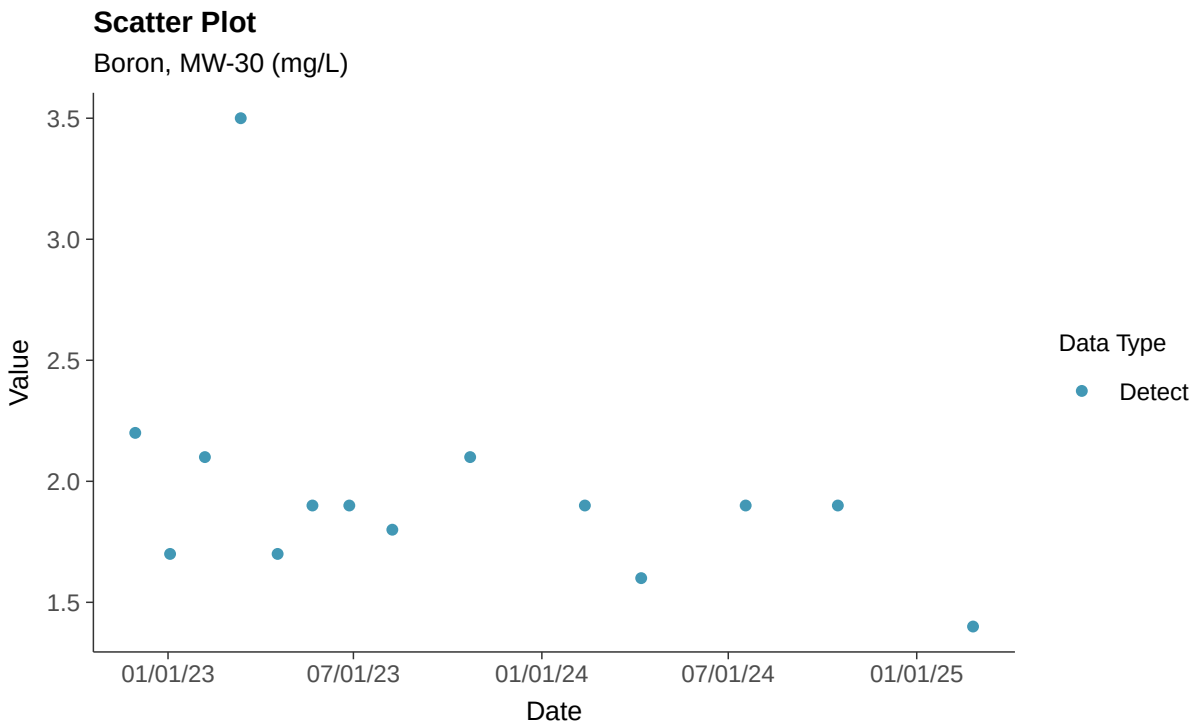


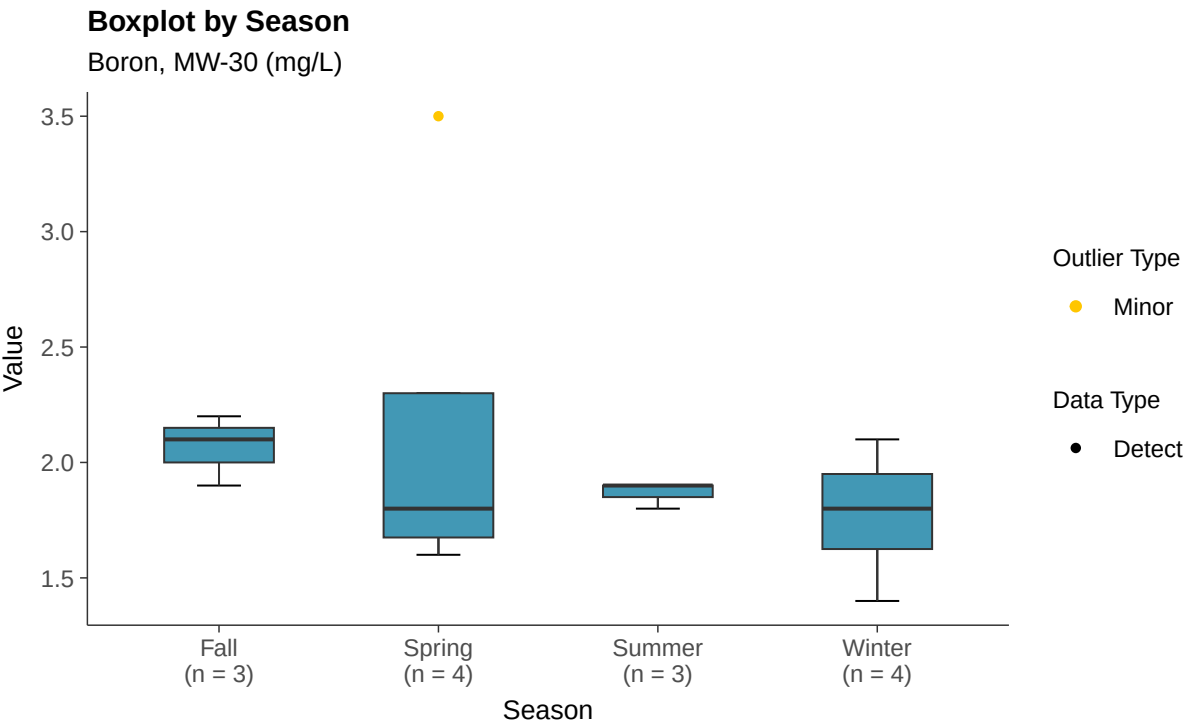
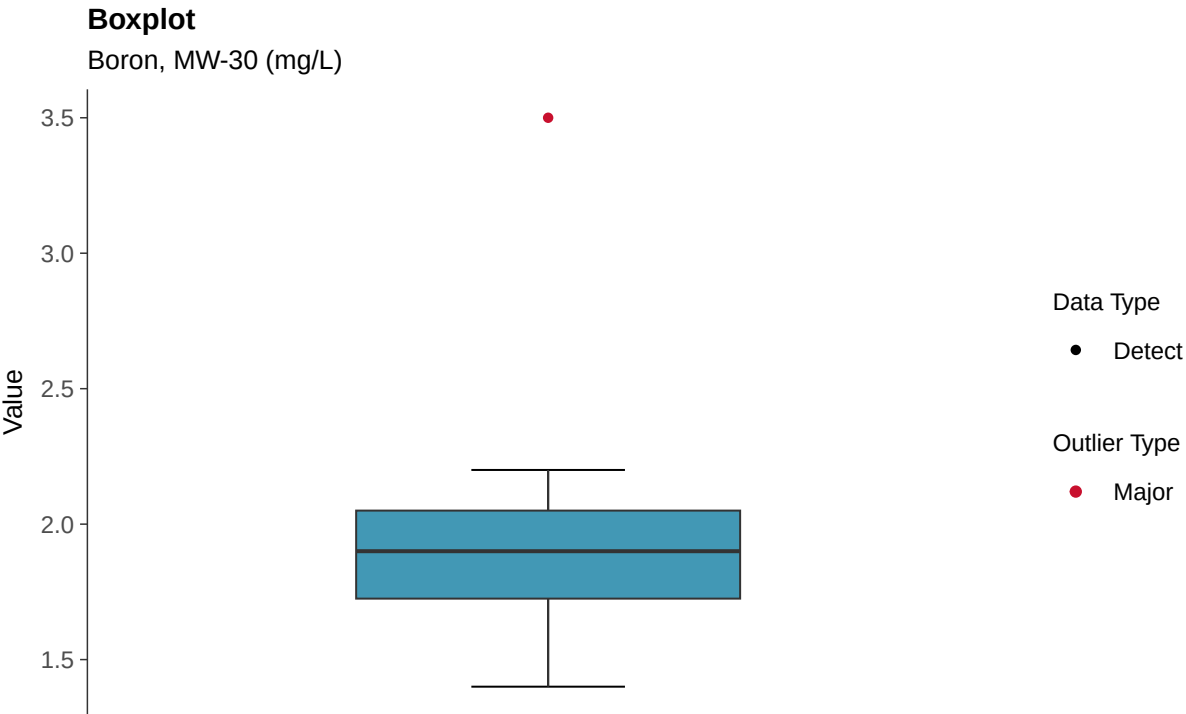


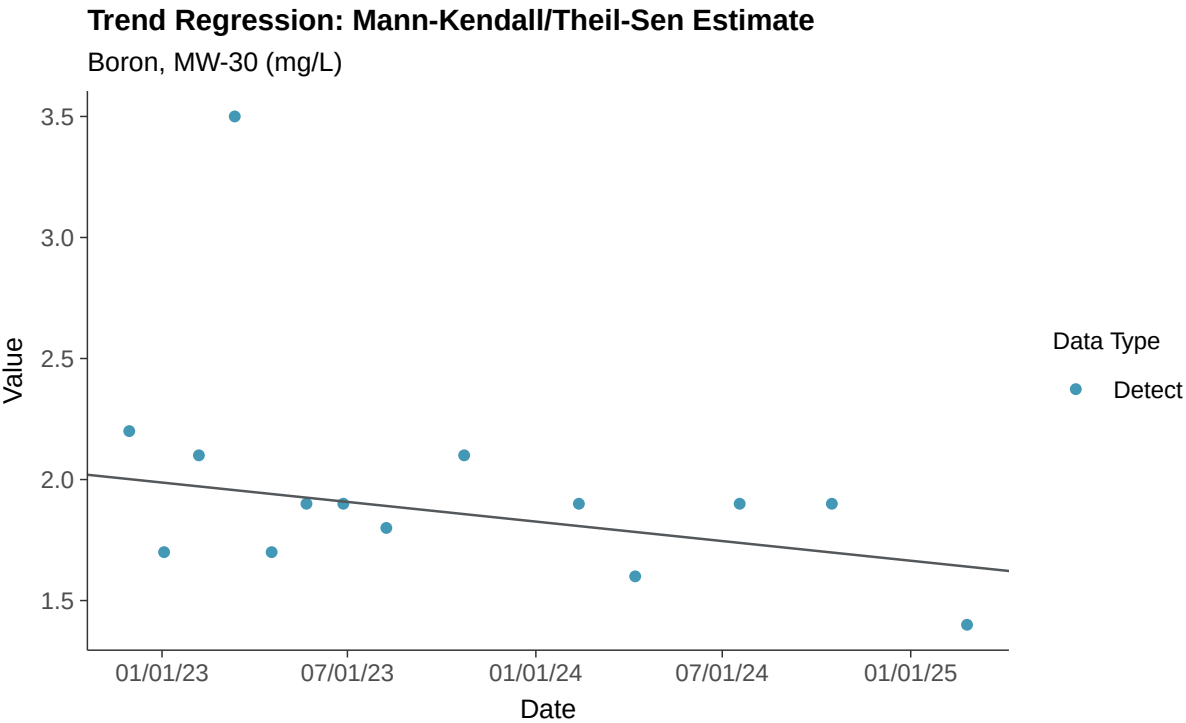
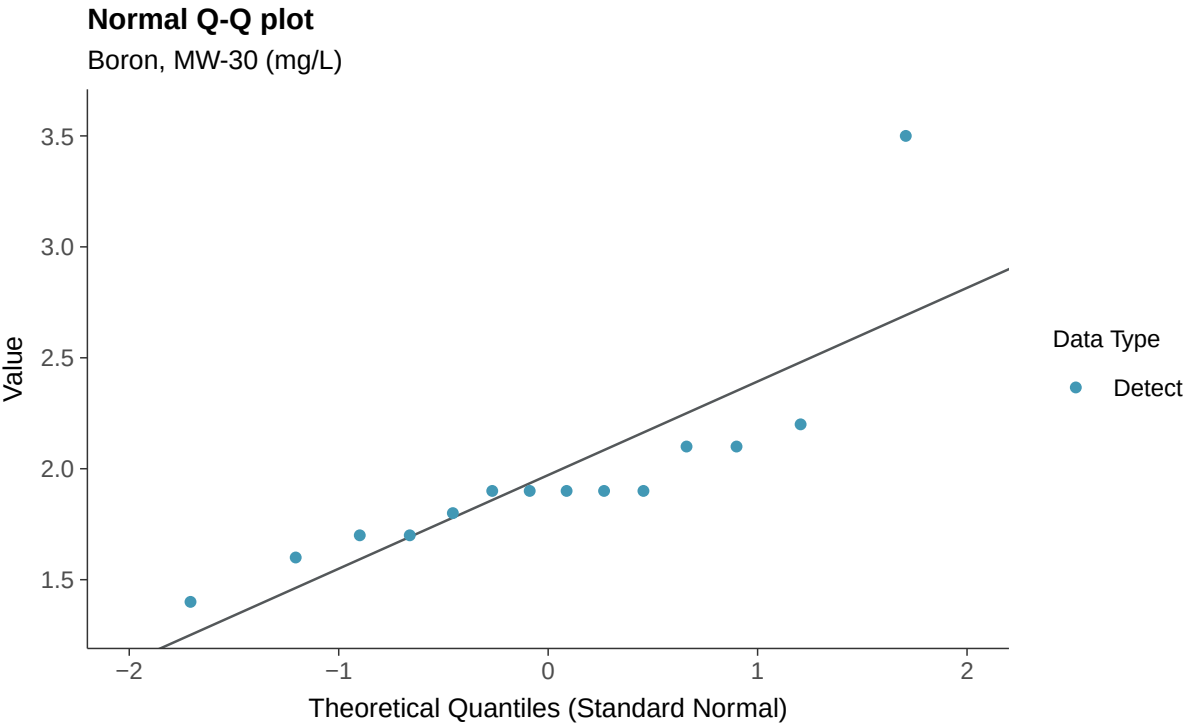


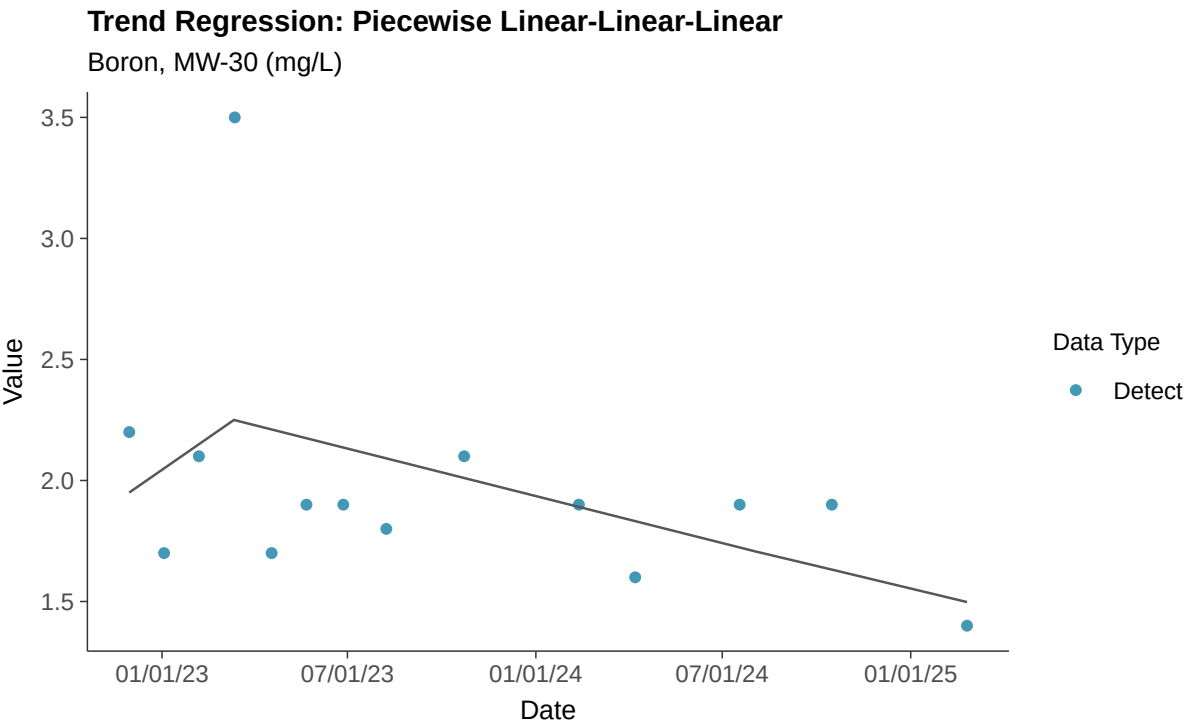
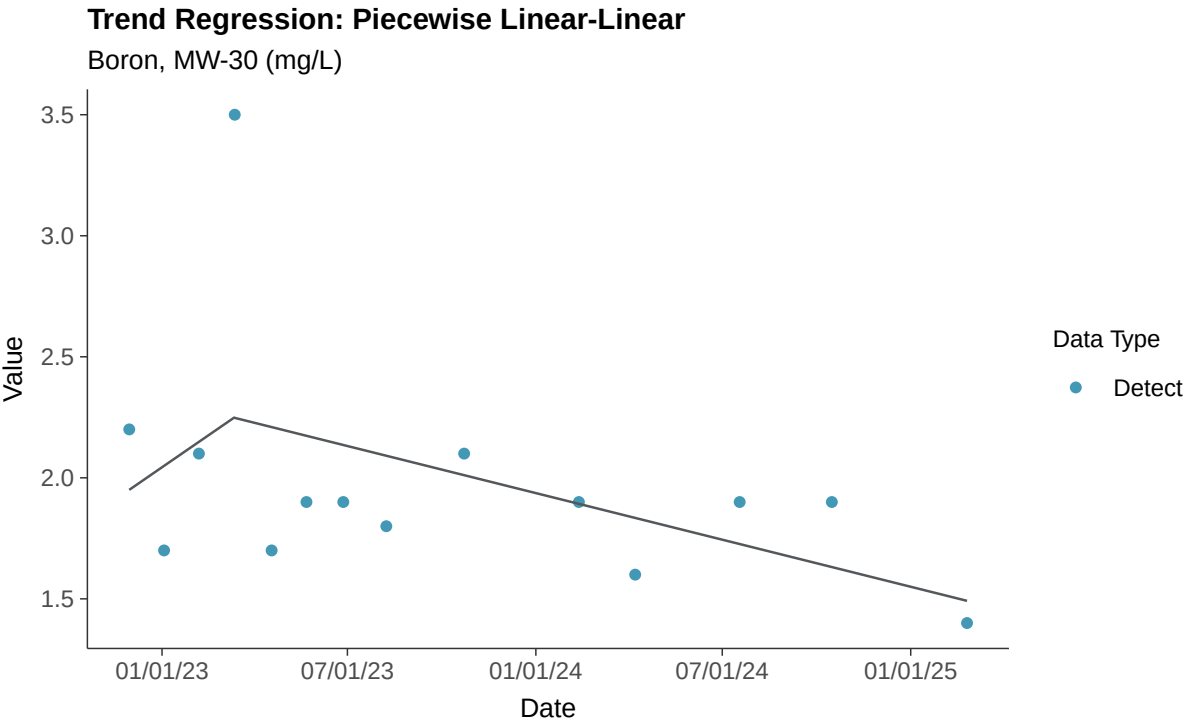
Appendix III: Boron, MW-30

ID: 40_1_3_105





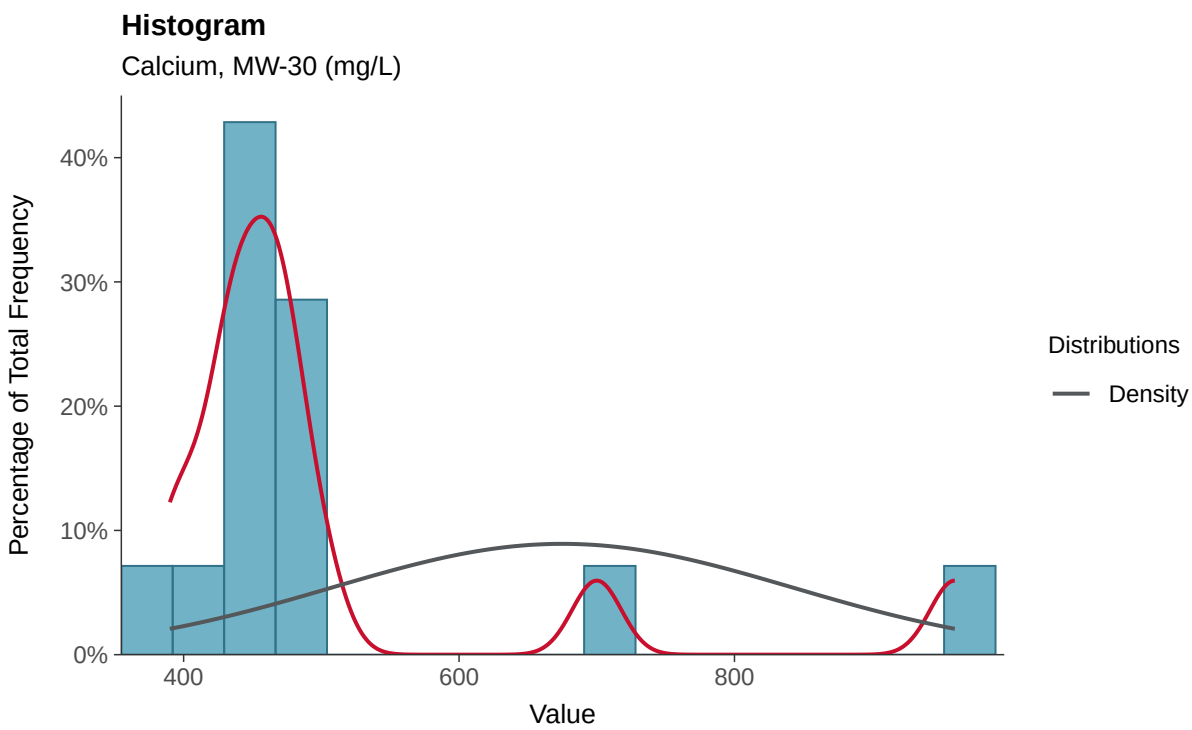
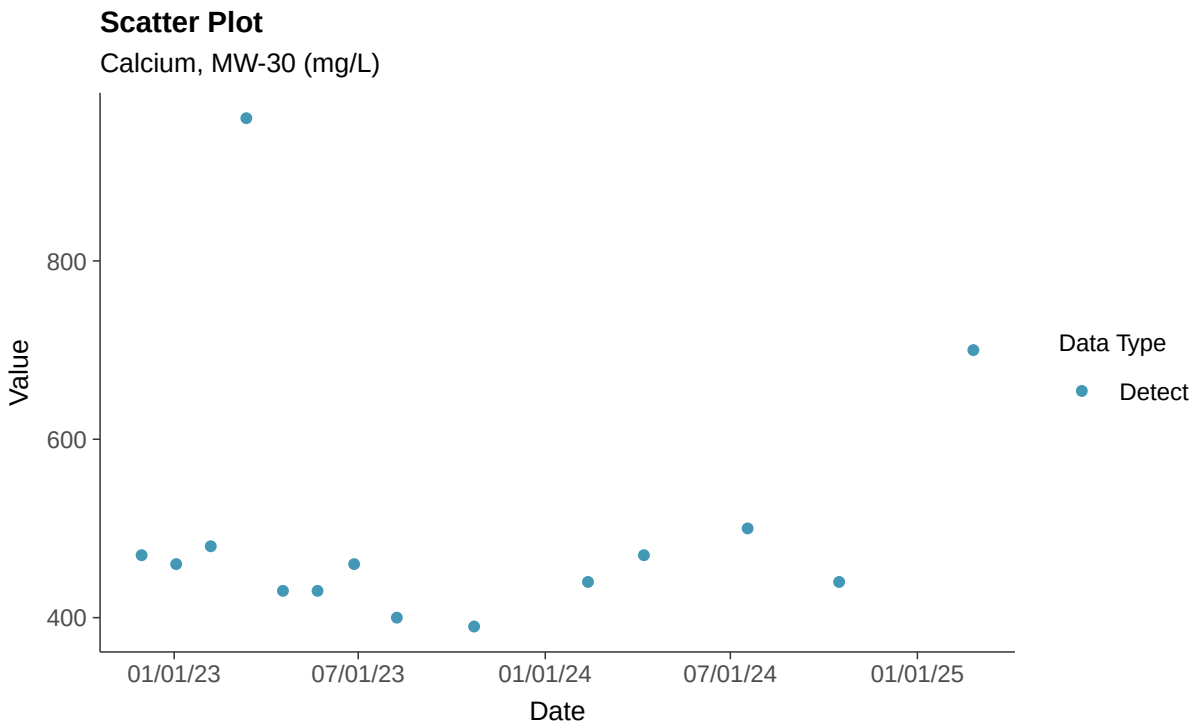


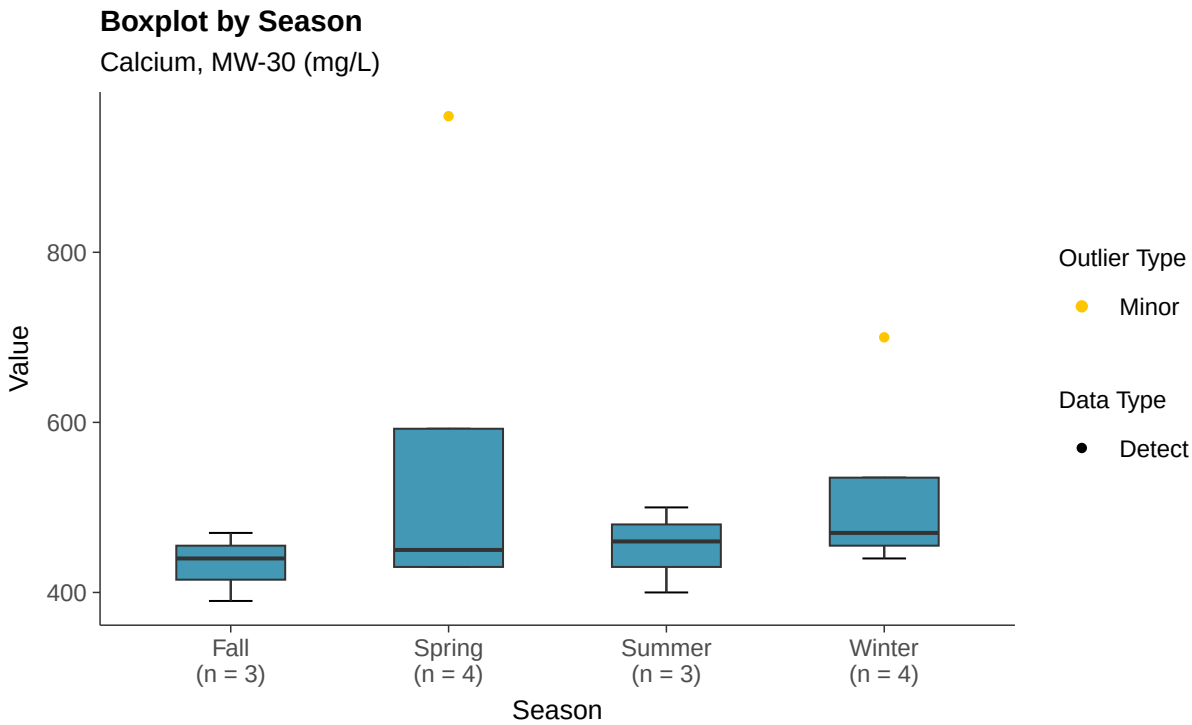
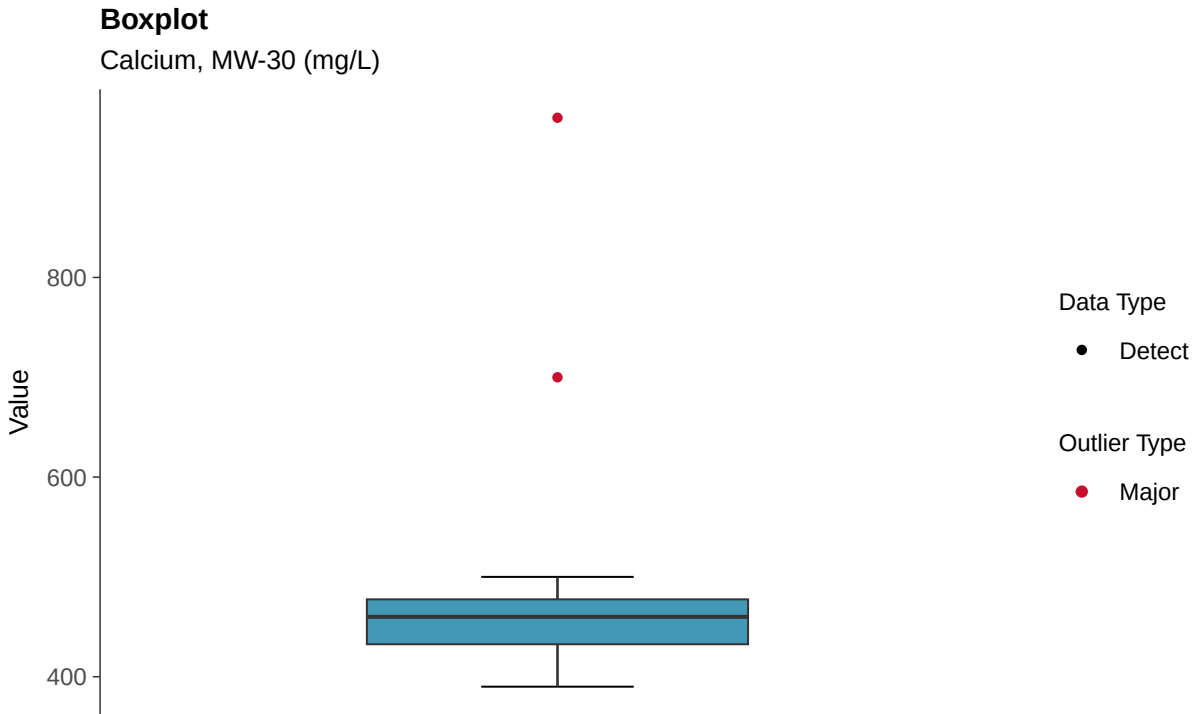


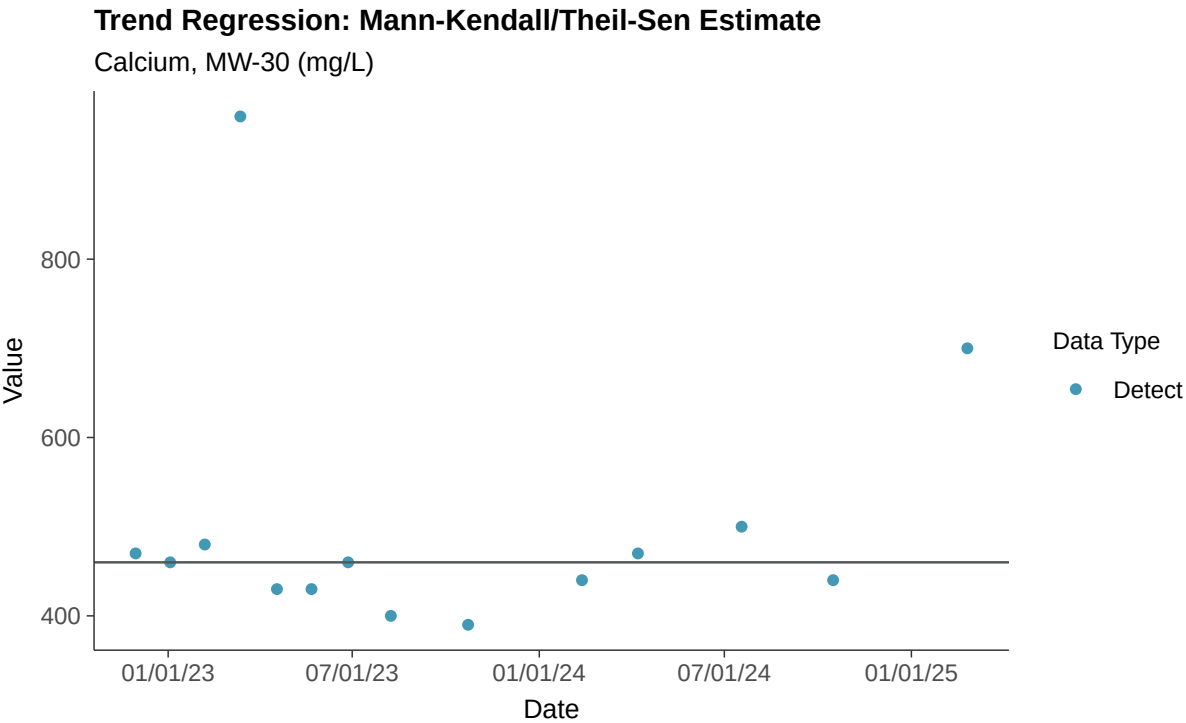
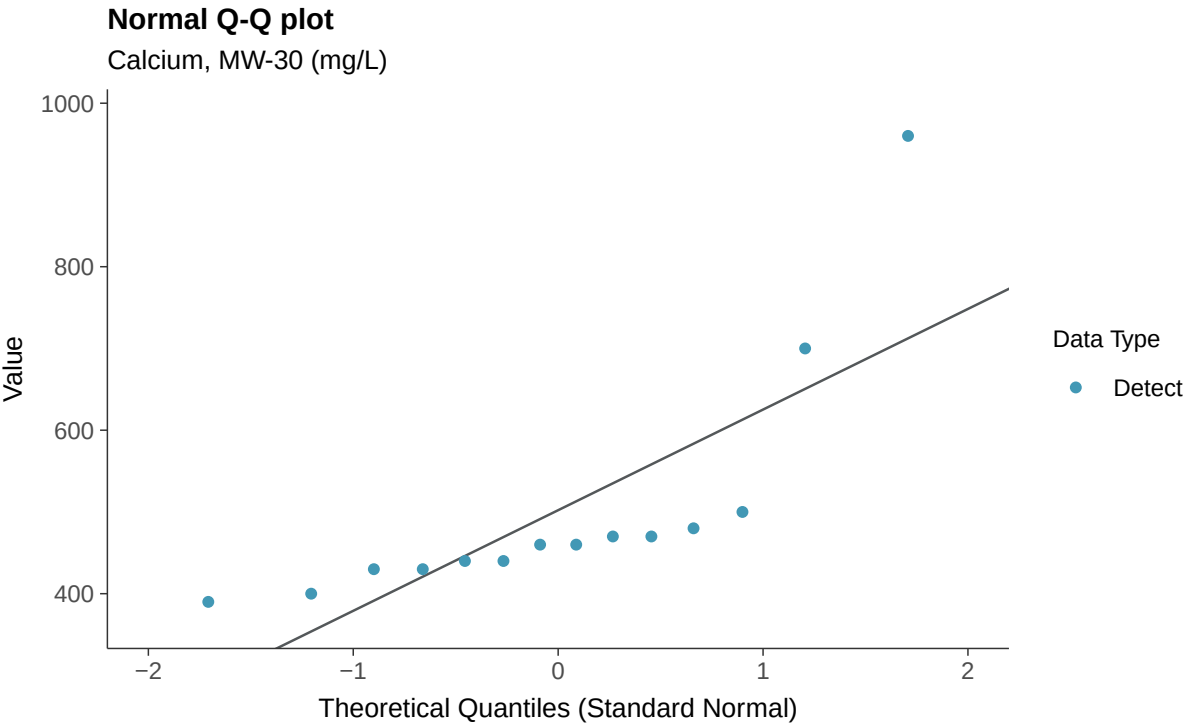


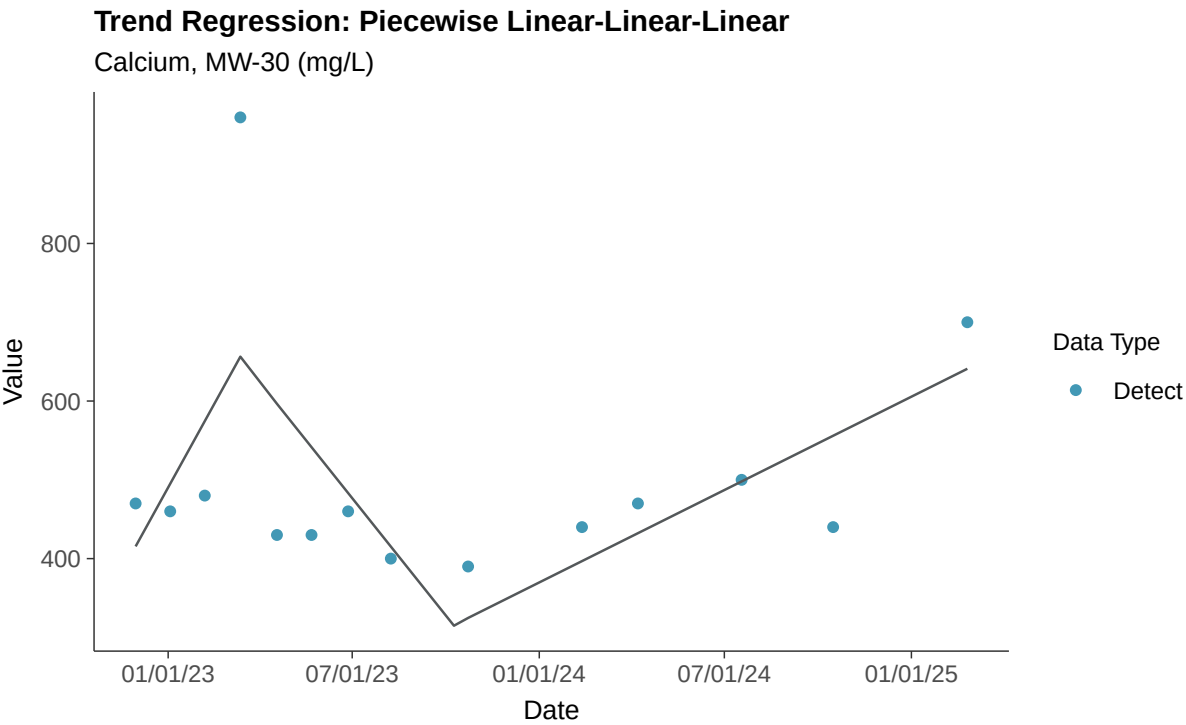
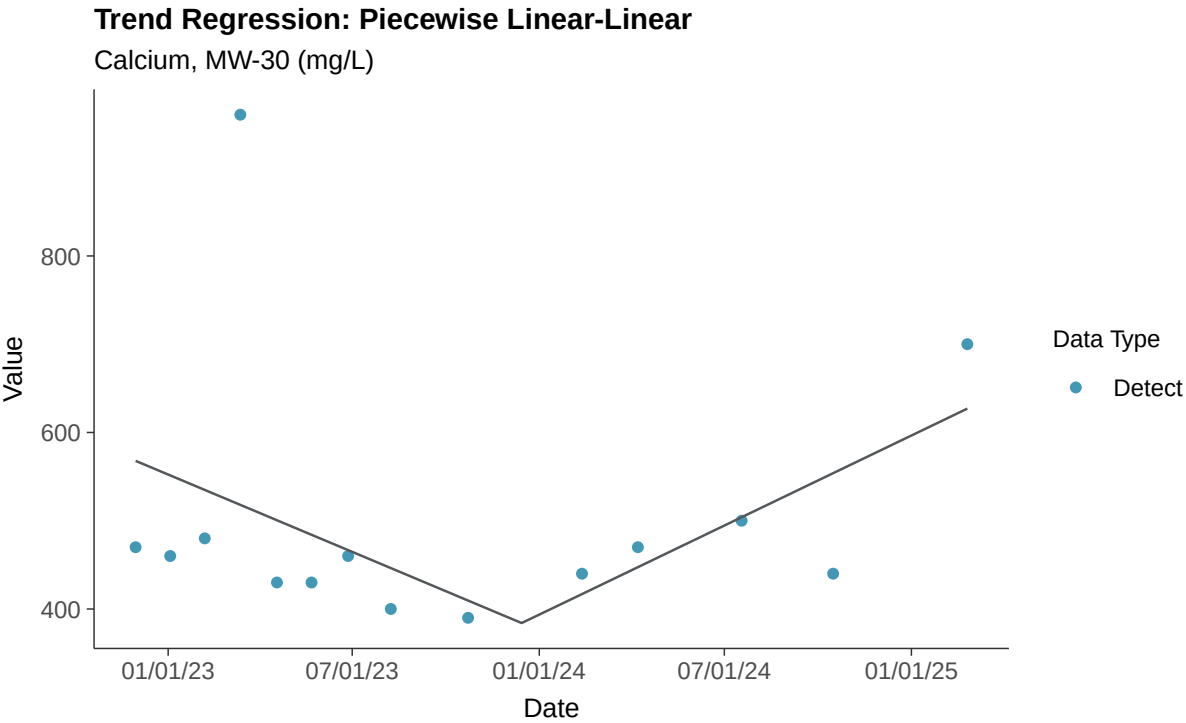
Appendix III: Calcium, MW-30

ID: 40_1_3_107





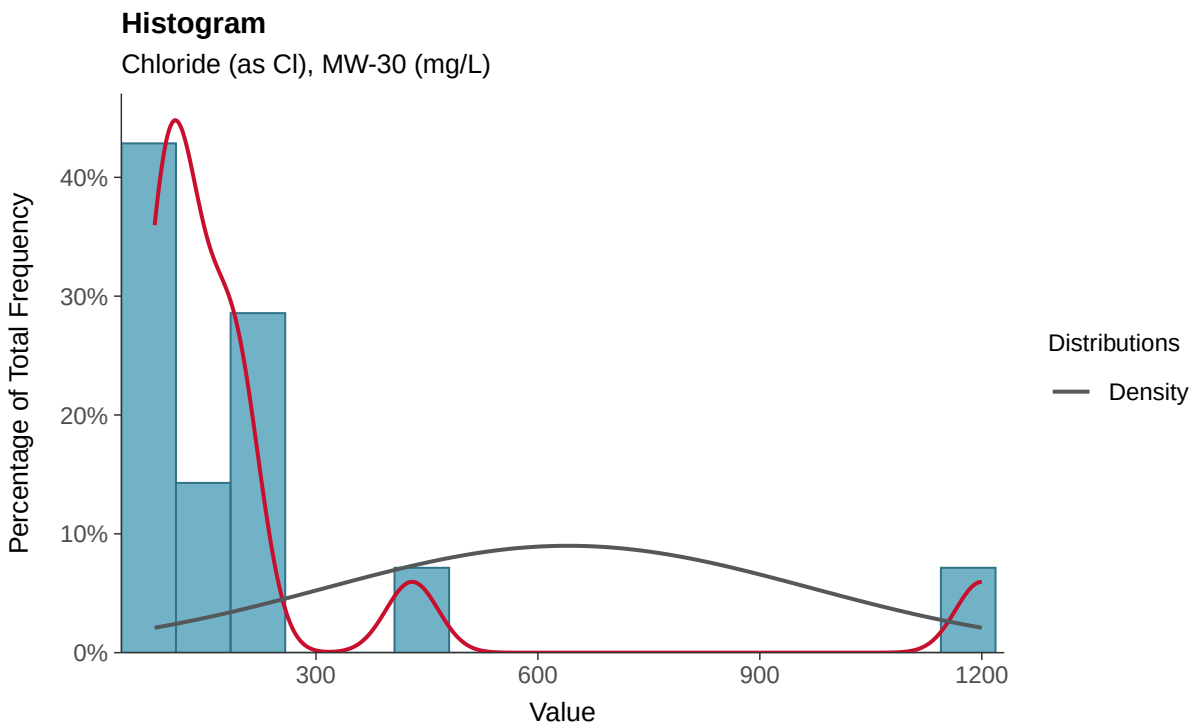
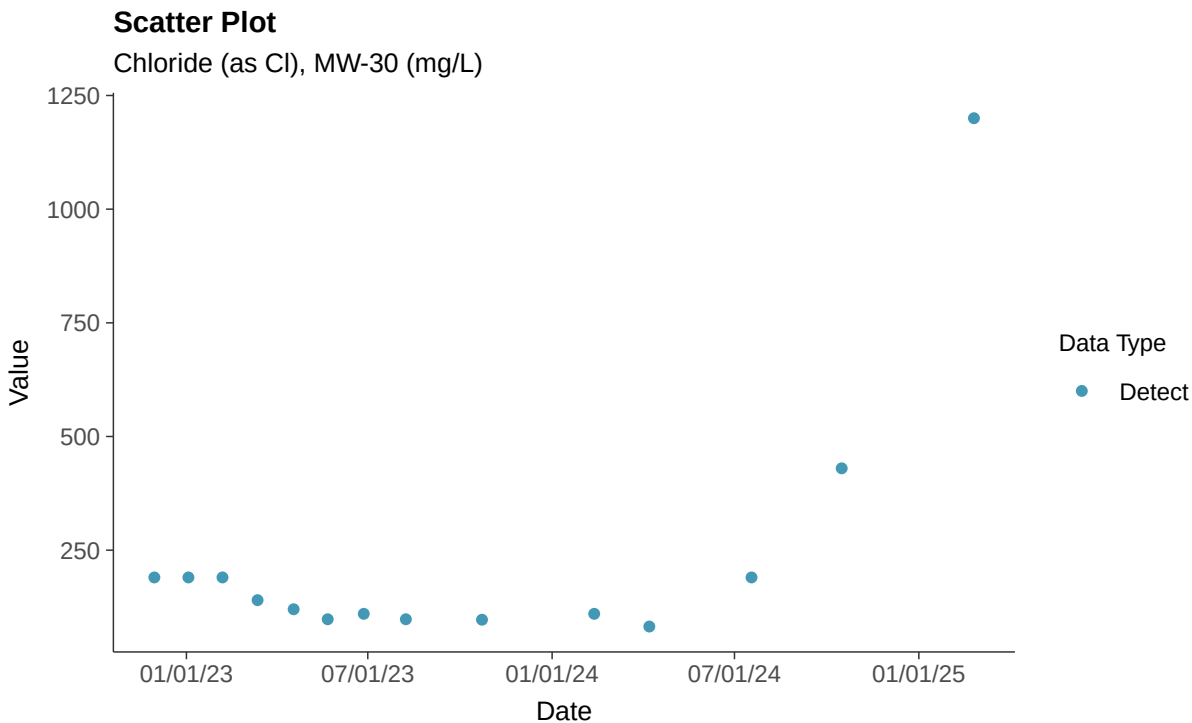


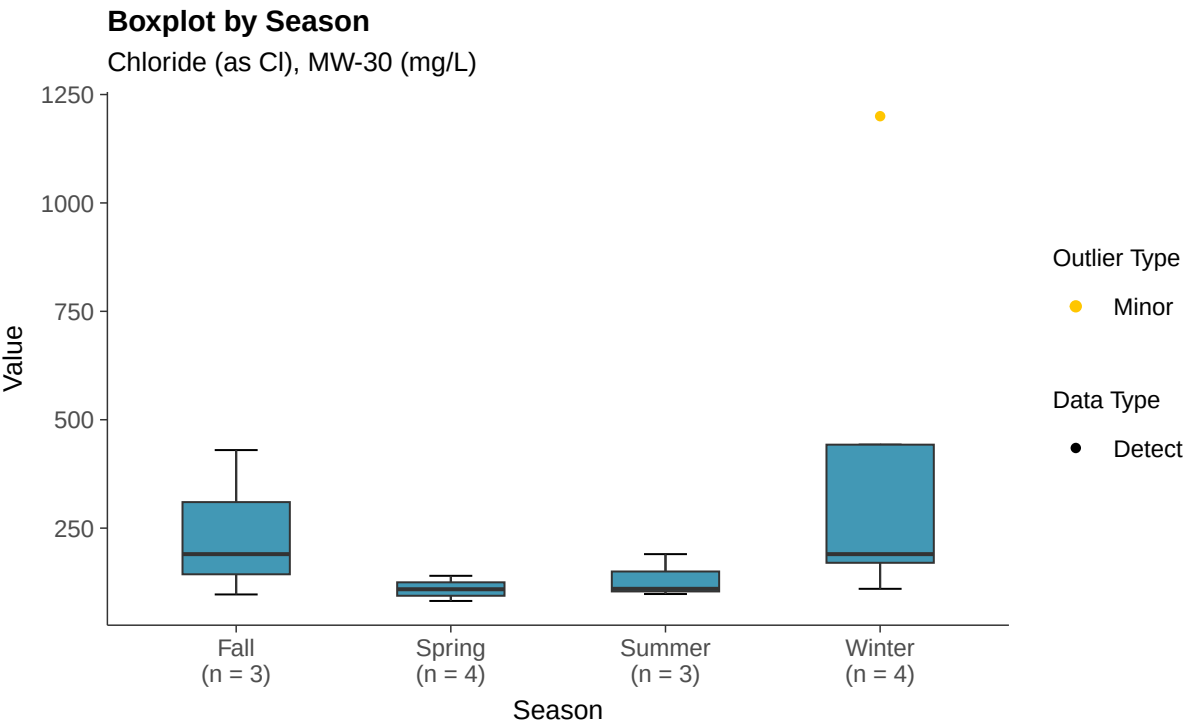
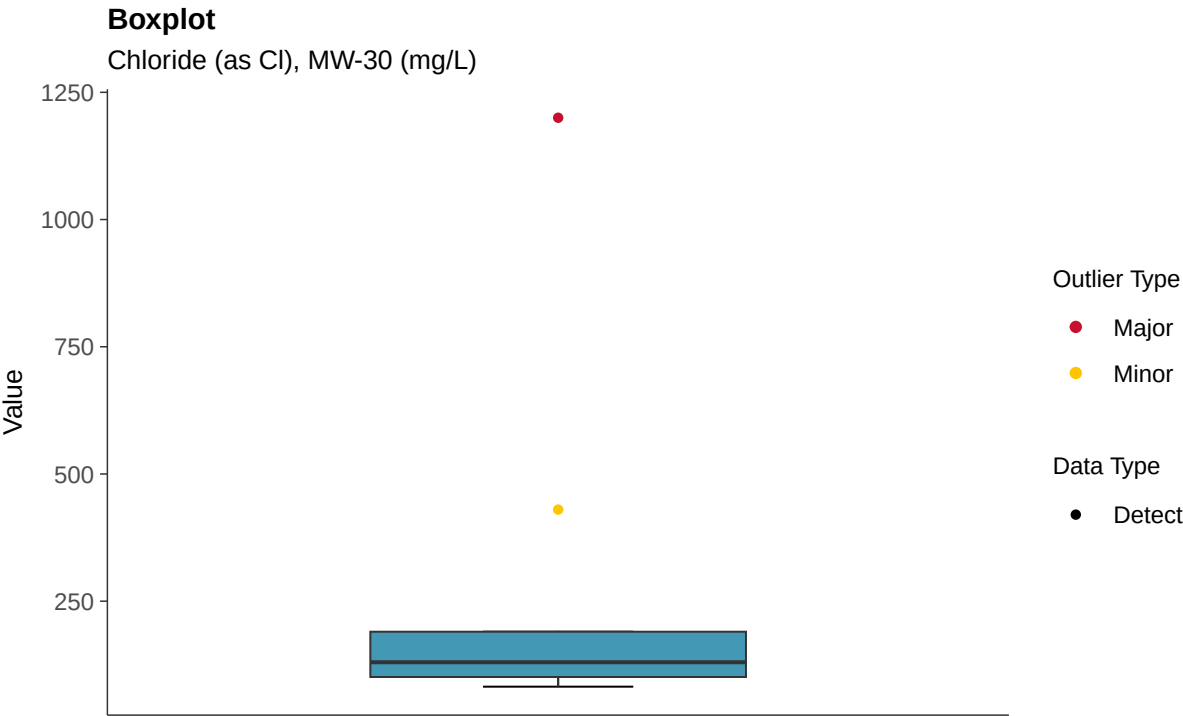


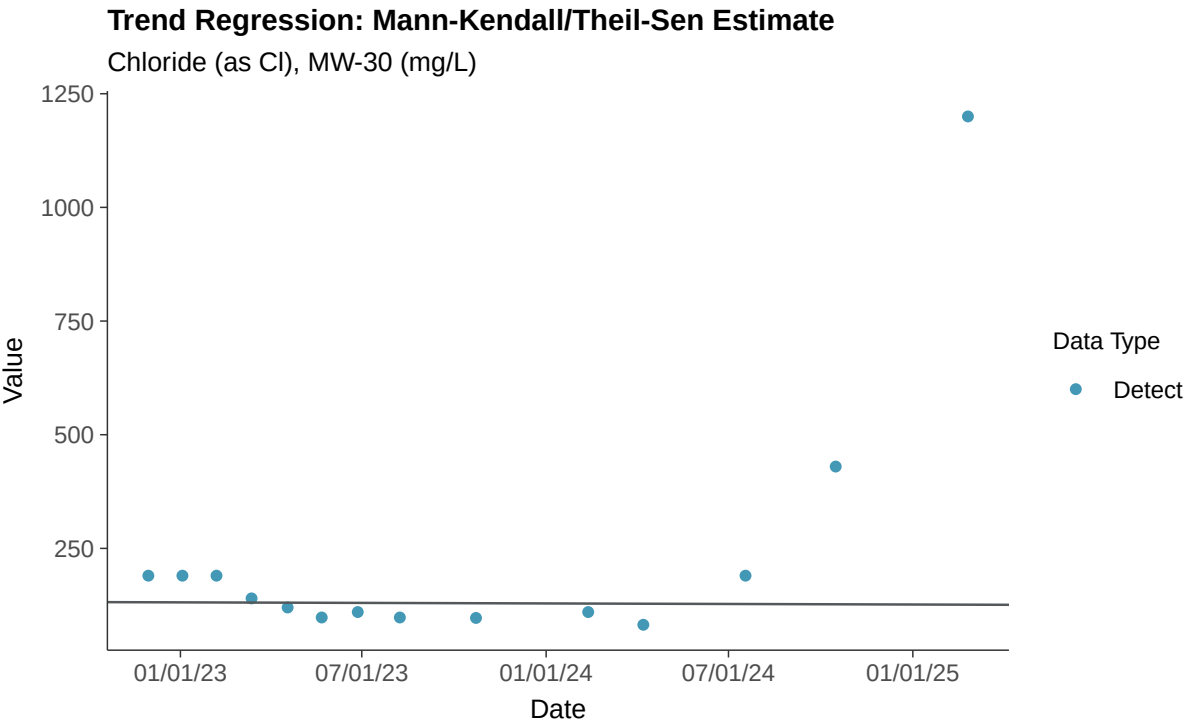
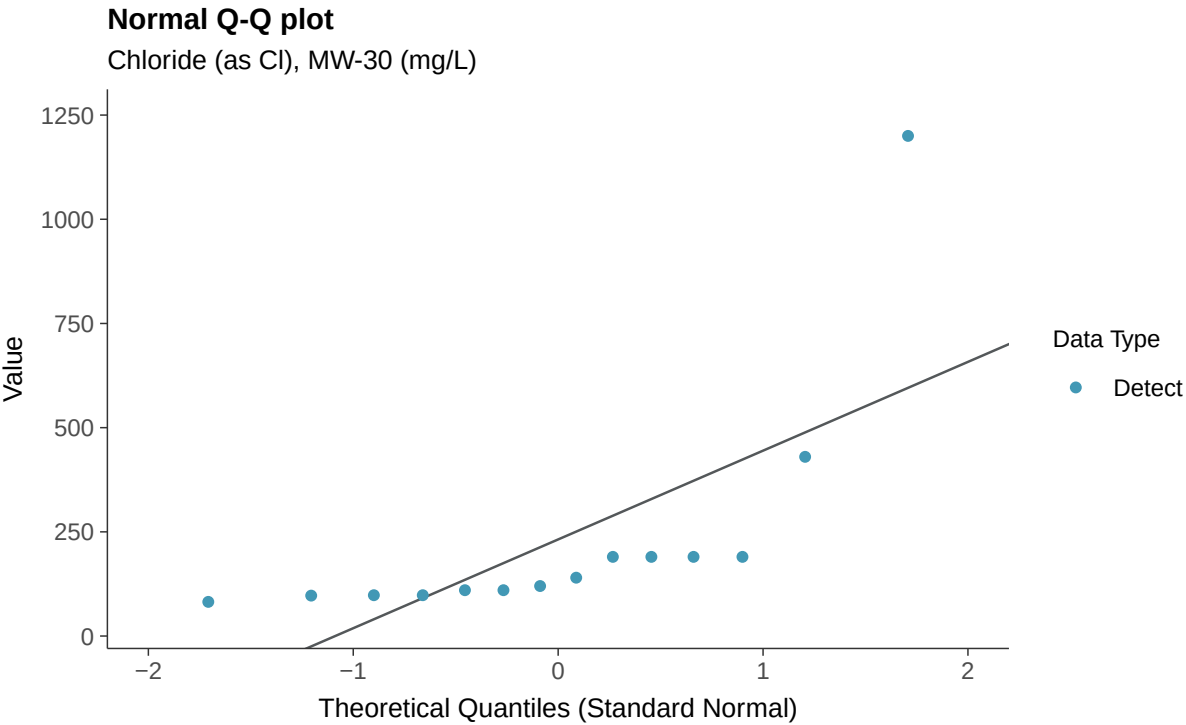


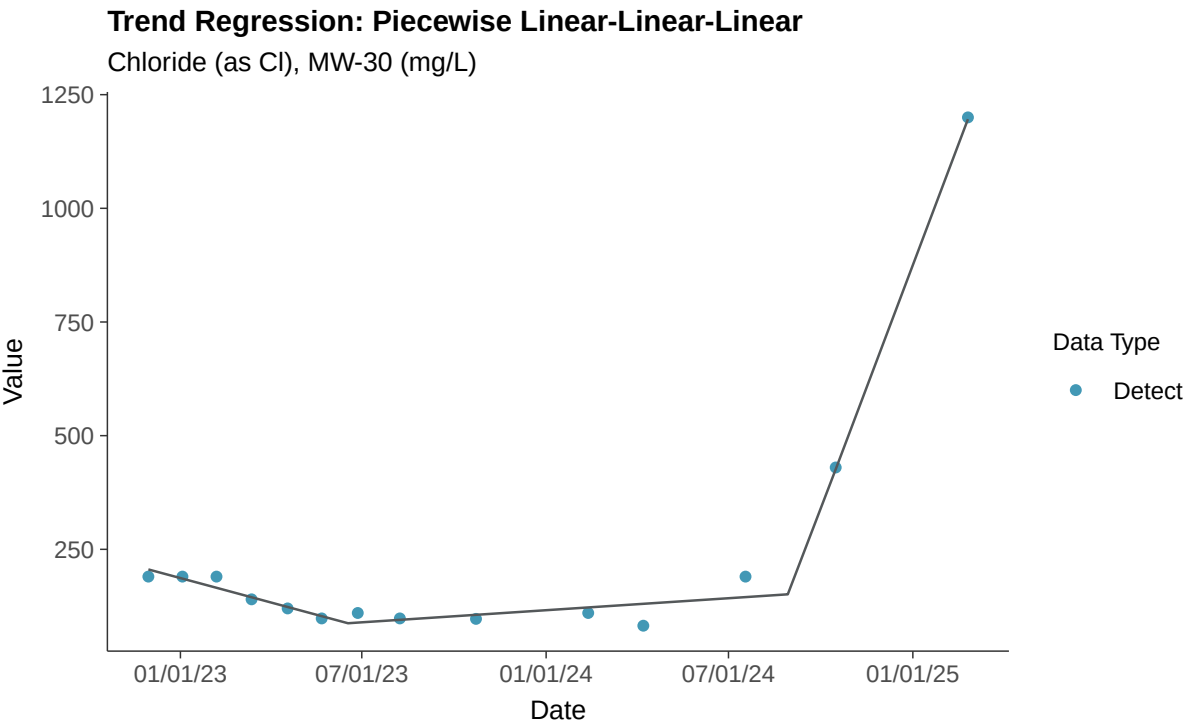
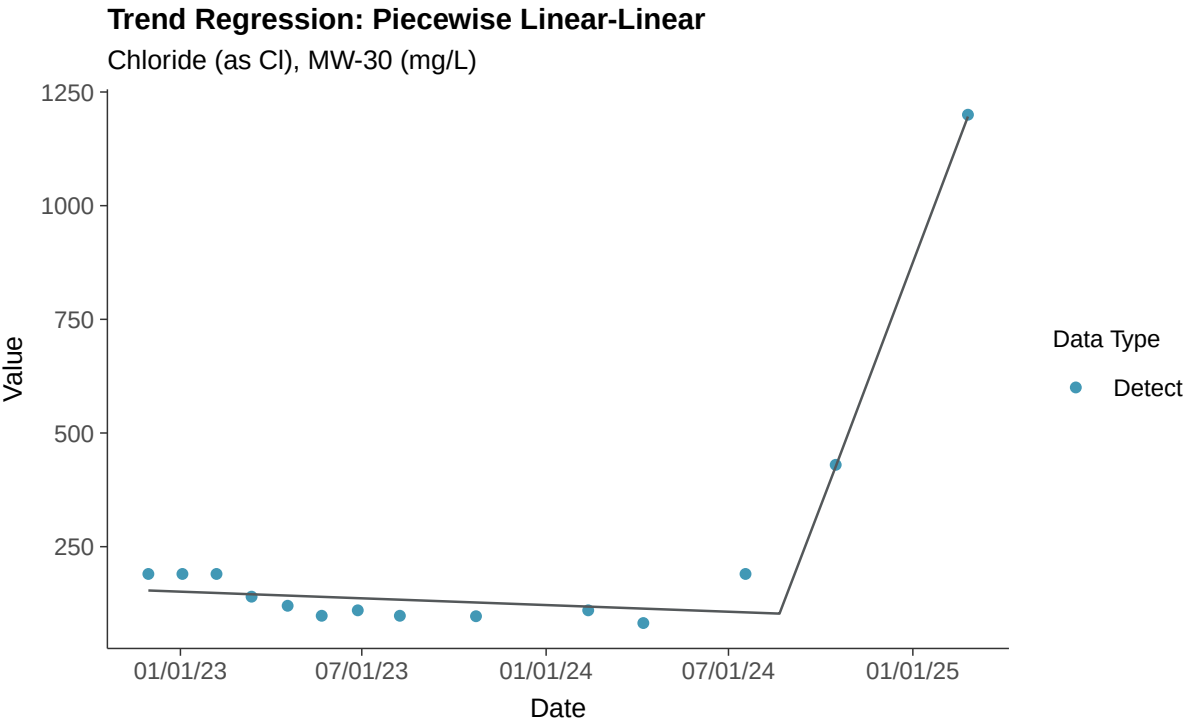
Appendix III: Chloride (as Cl), MW-30

ID: 40_1_3_108





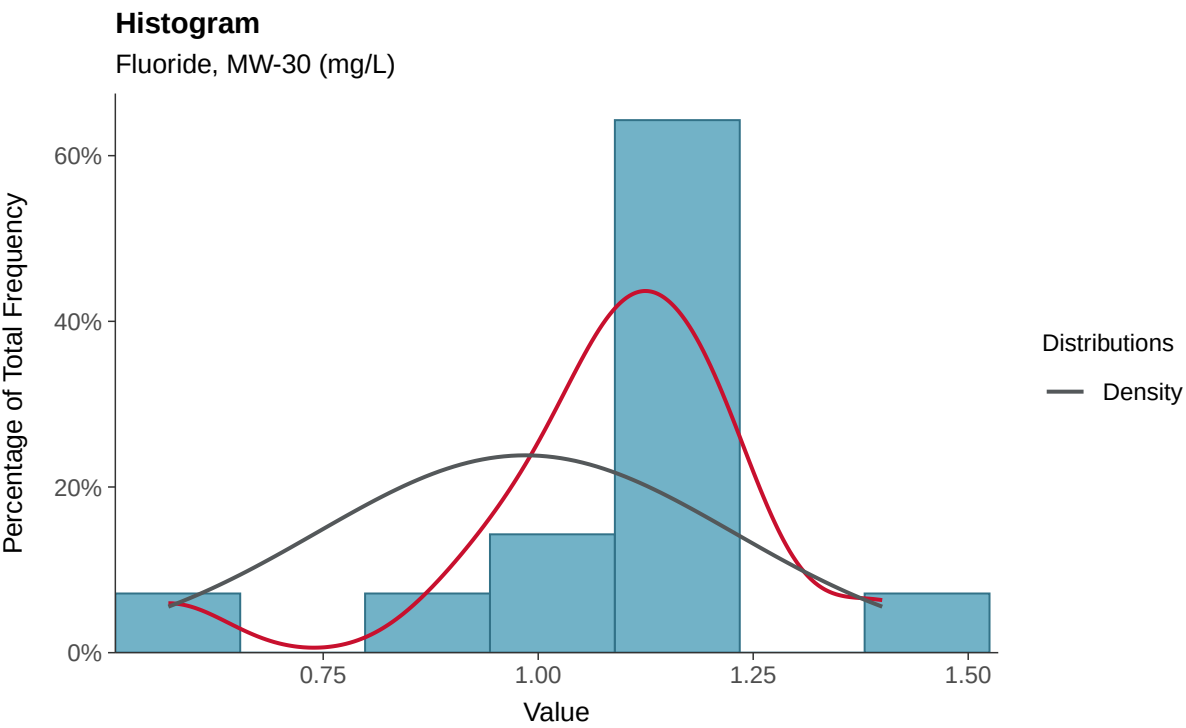
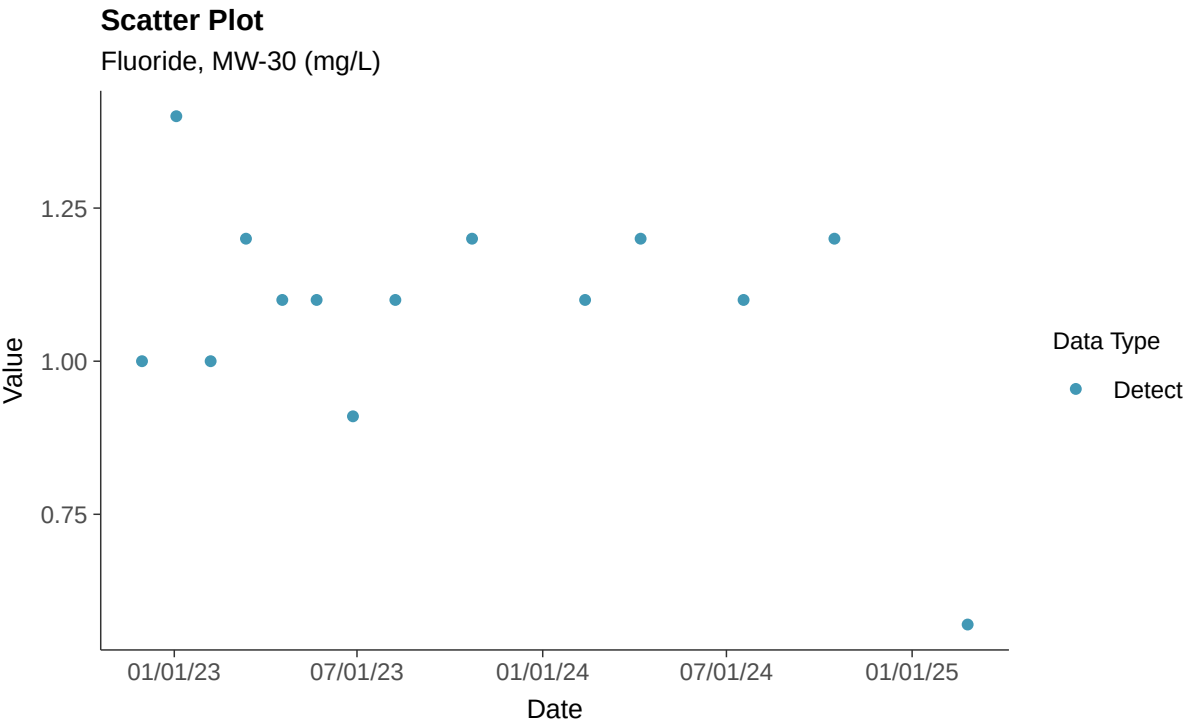


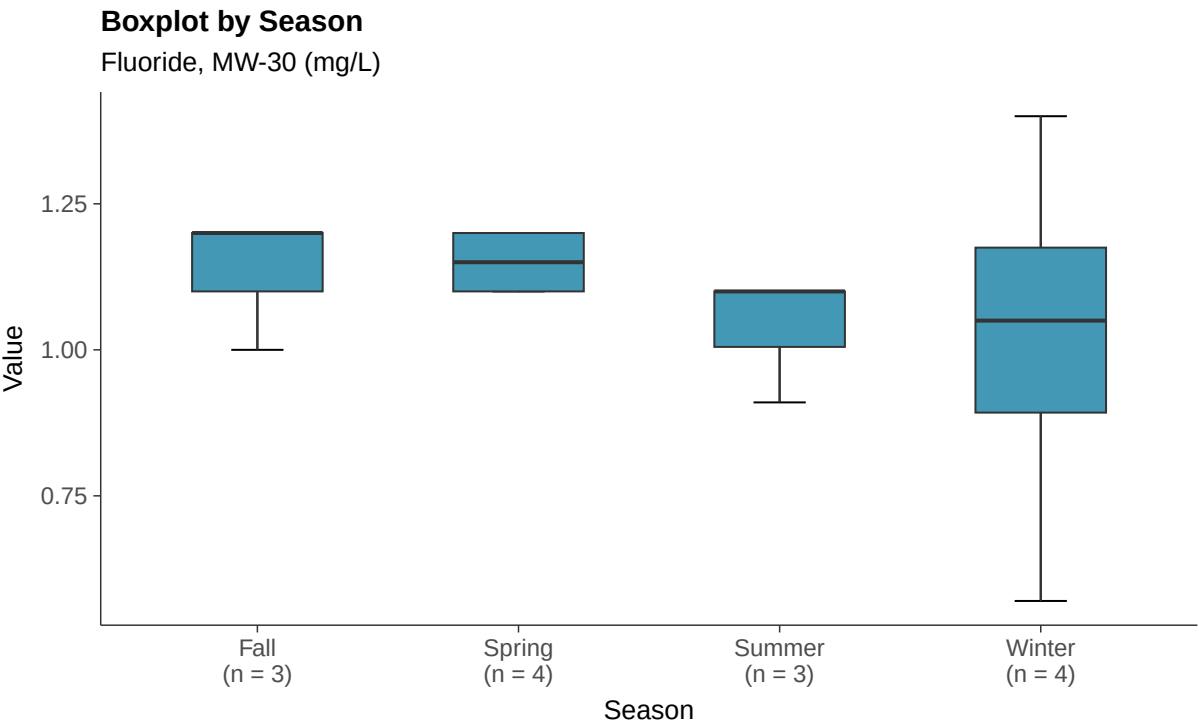
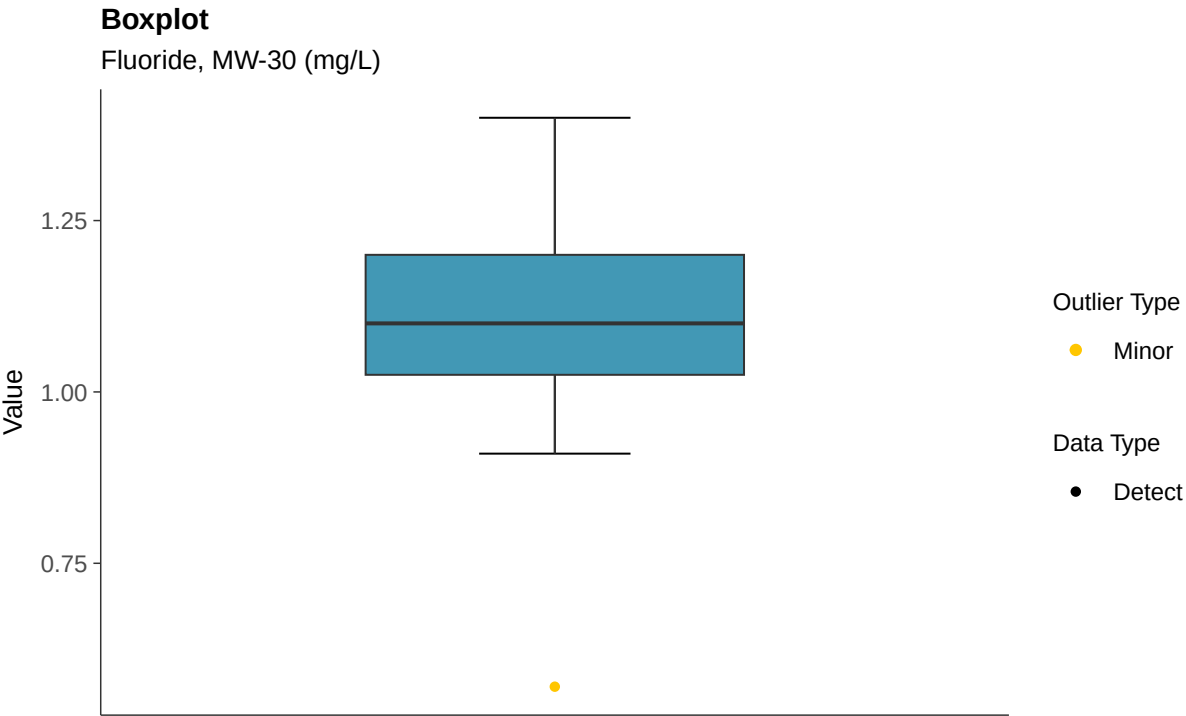


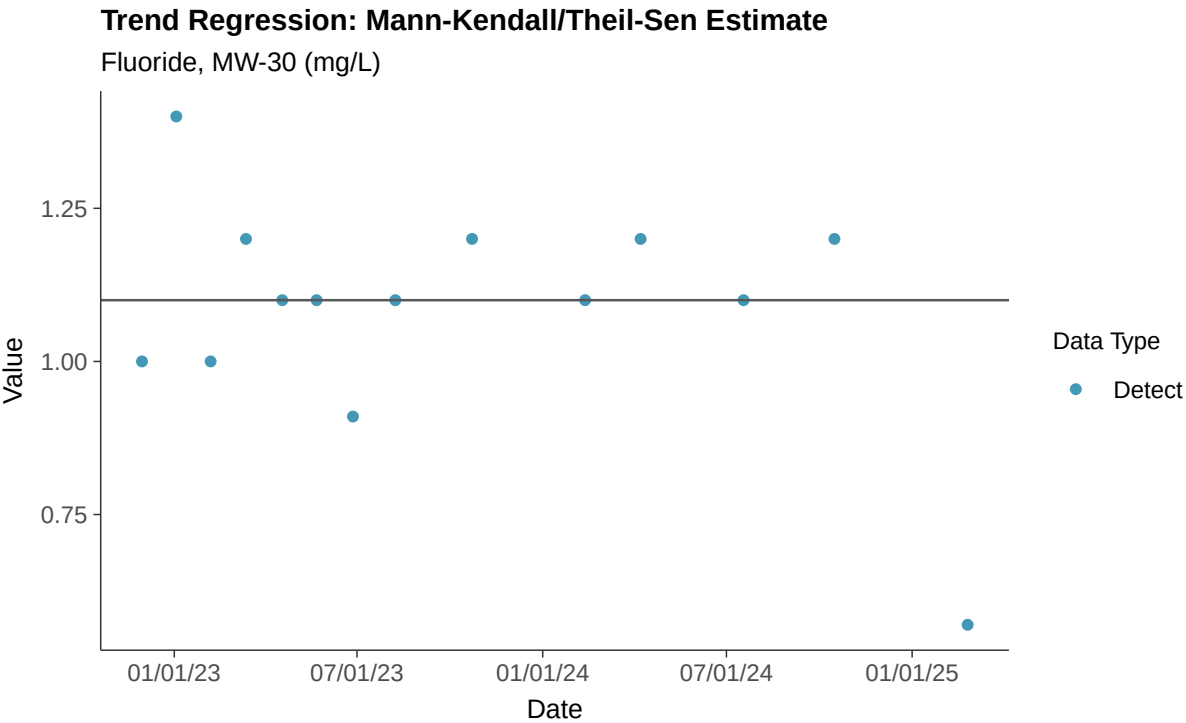
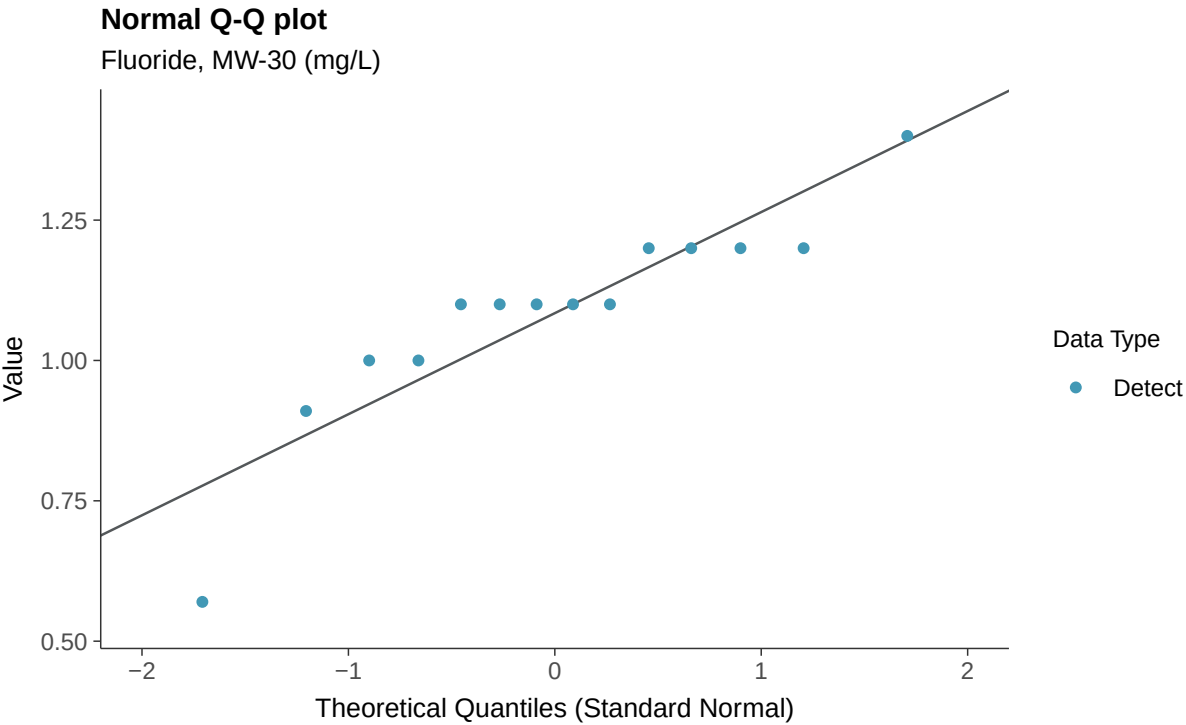


Appendix III: Fluoride, MW-30

ID: 40_1_3_112



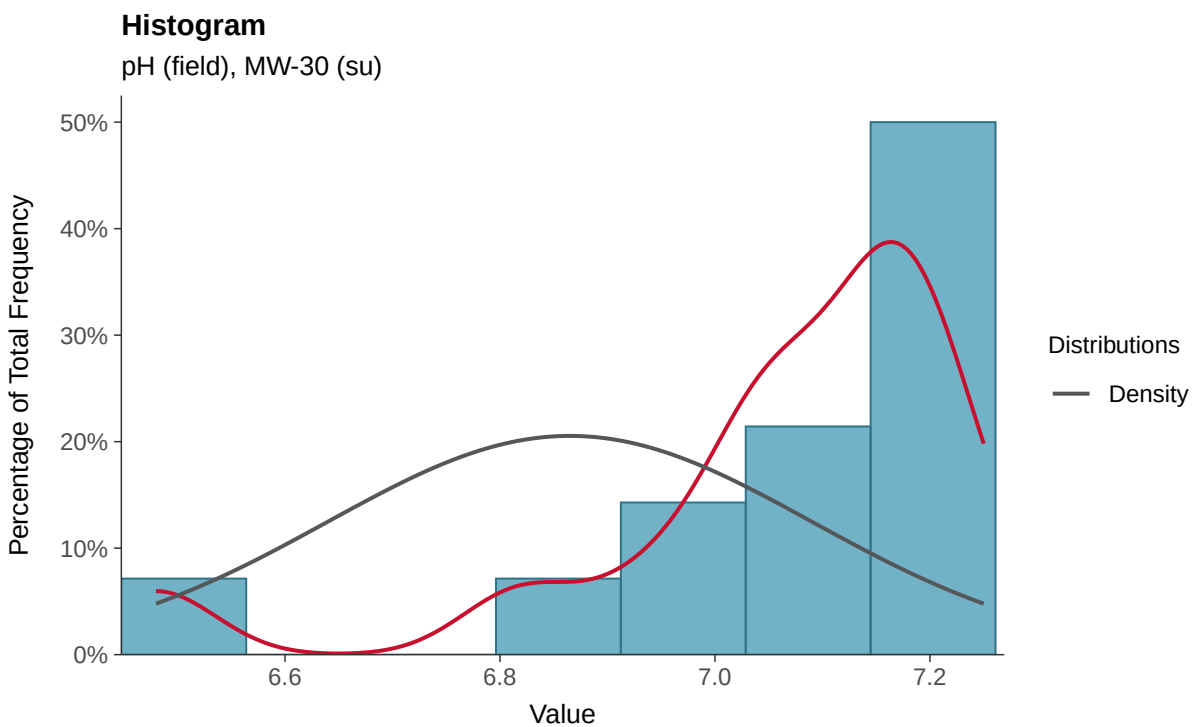
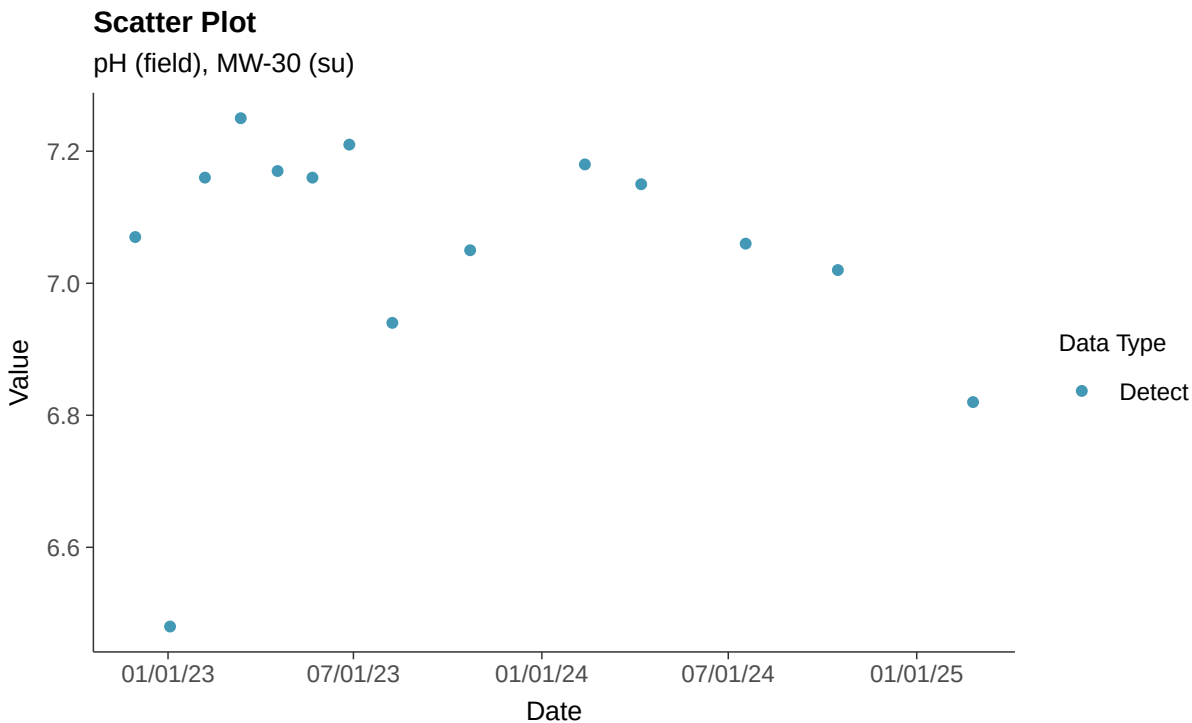


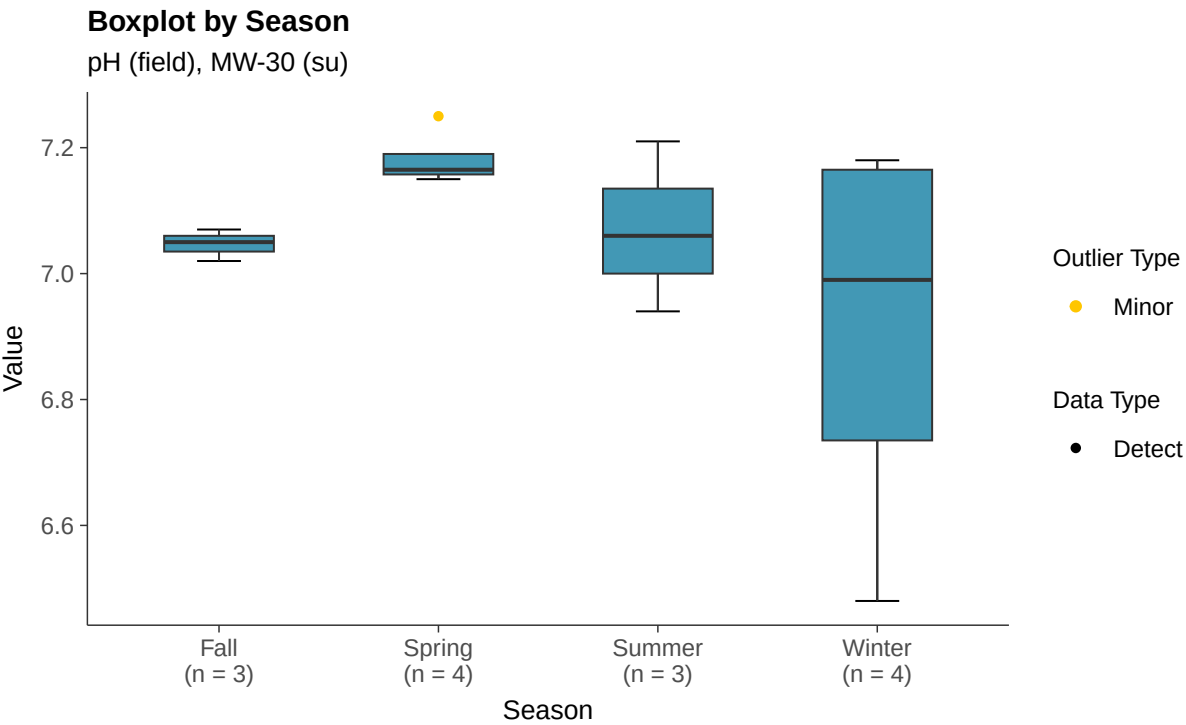
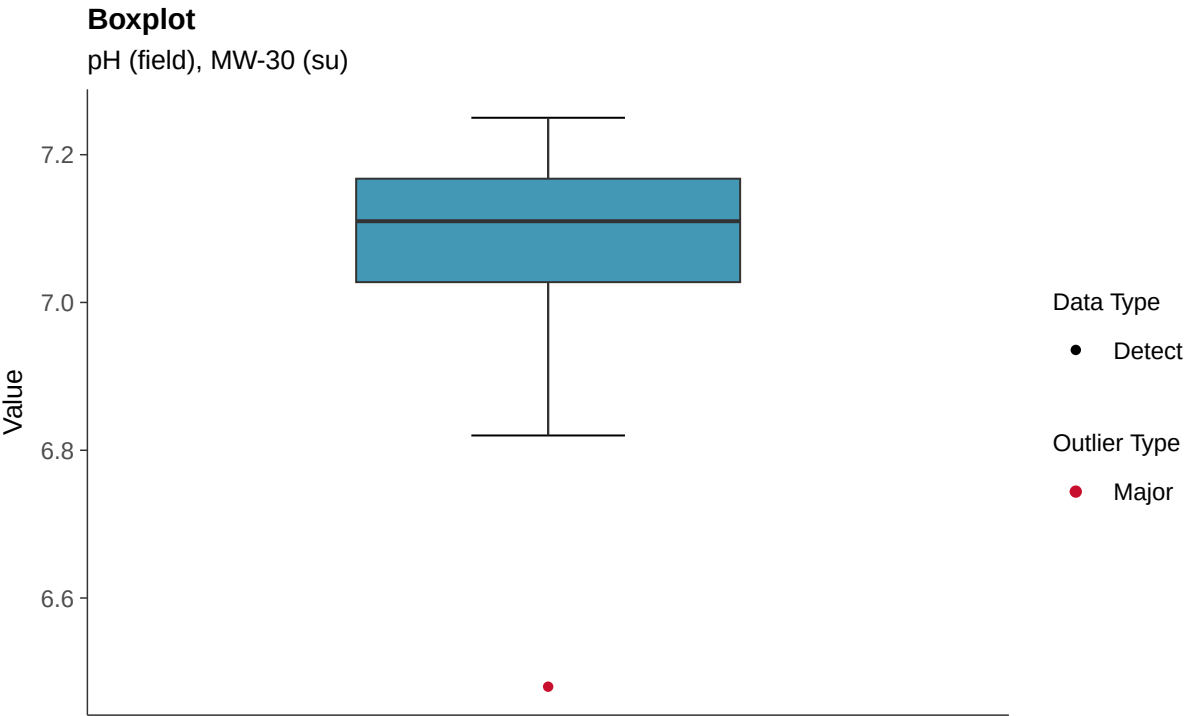


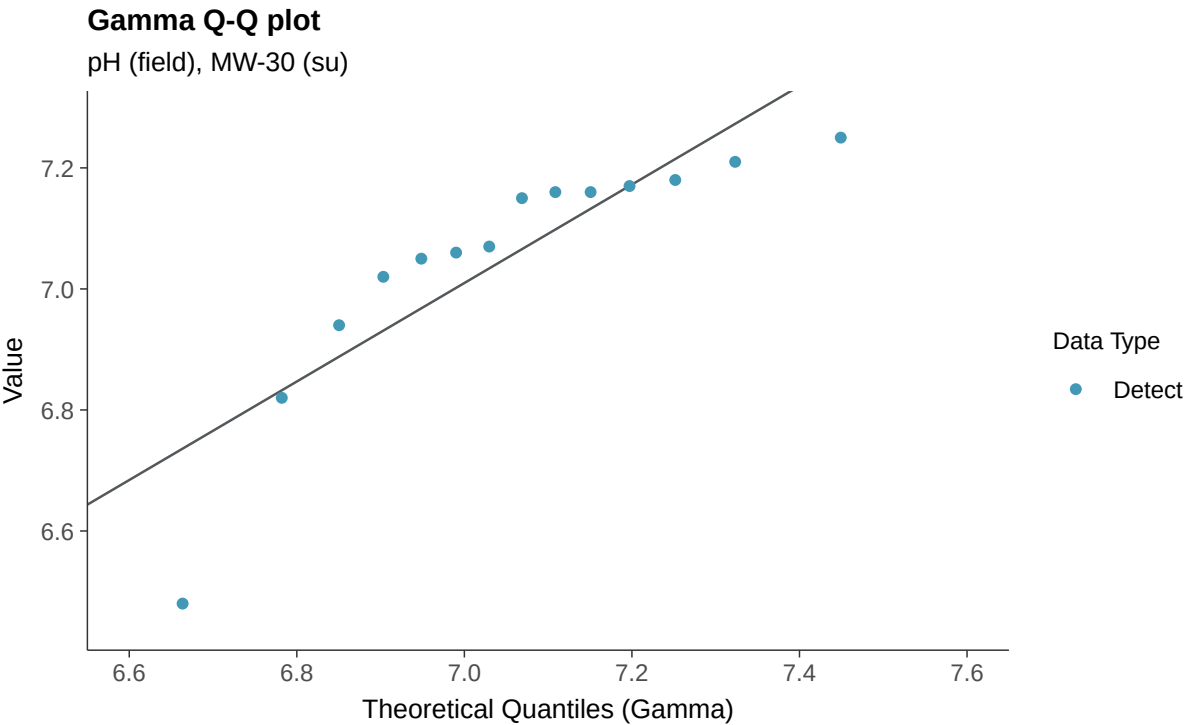
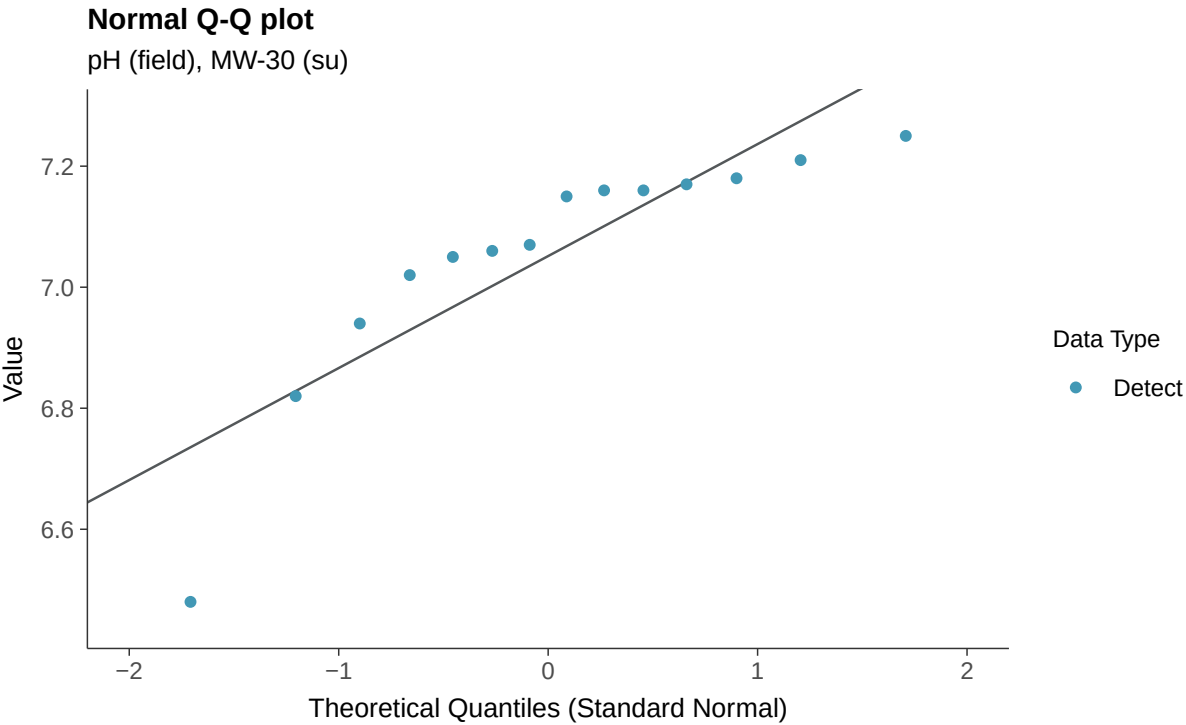


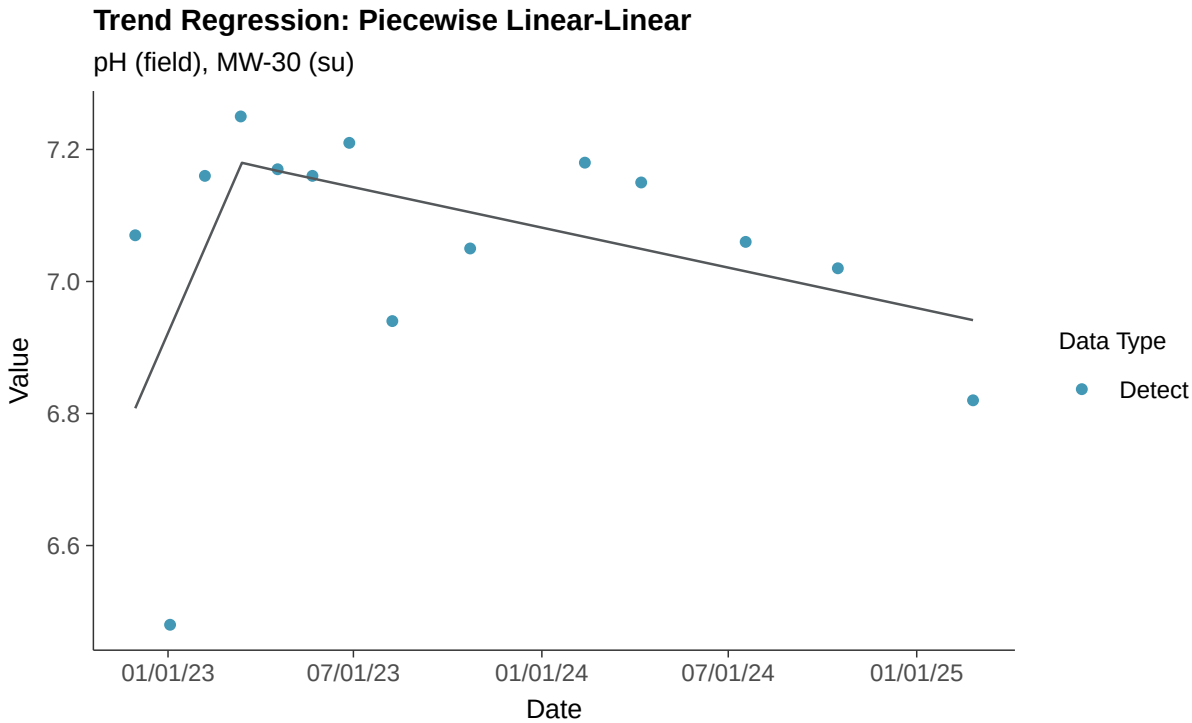
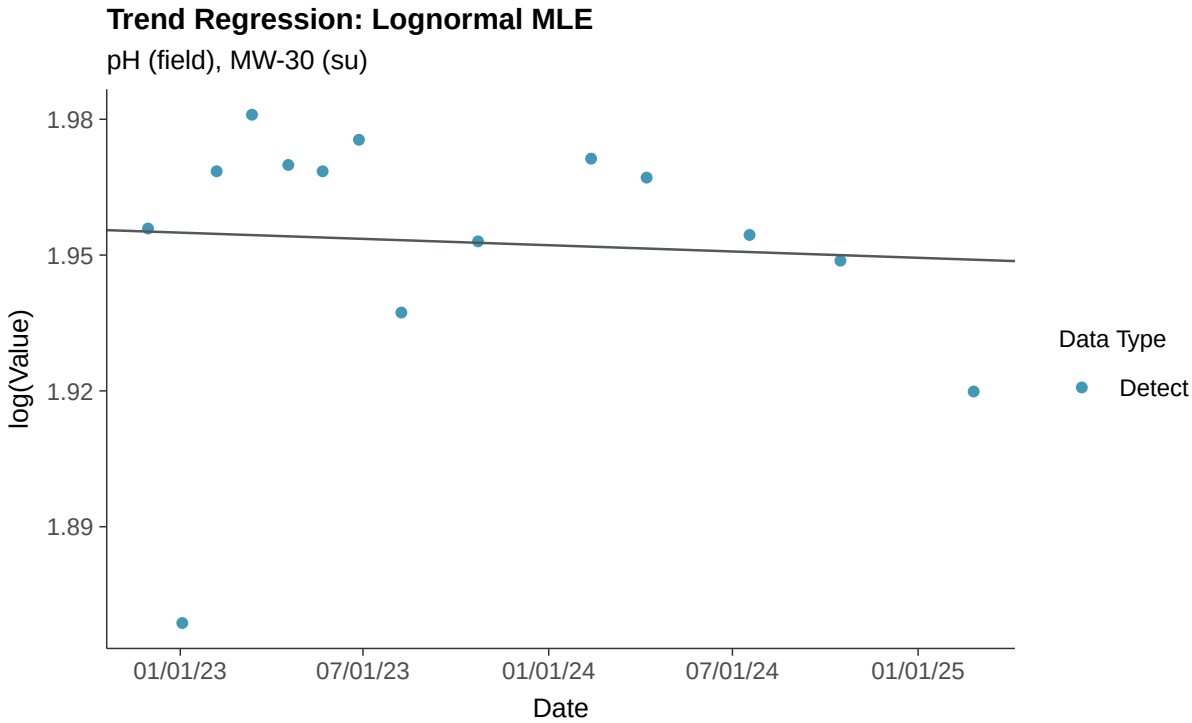
Appendix III: pH (field), MW-30

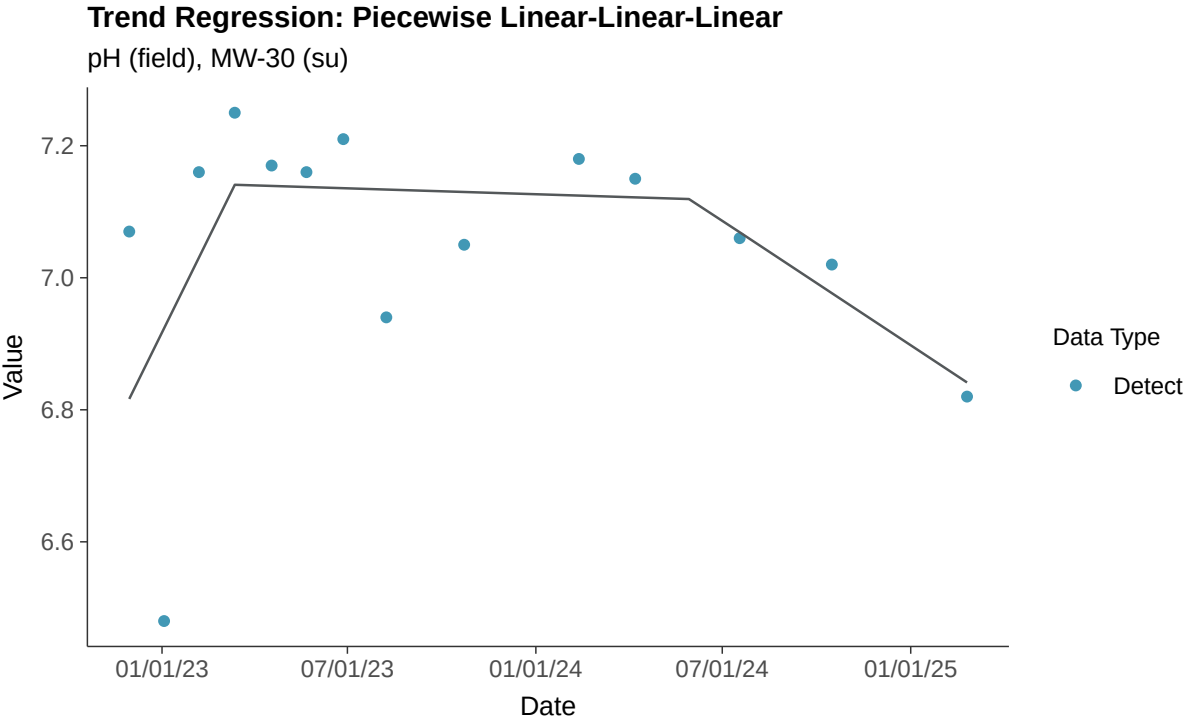
ID: 40_1_3_120







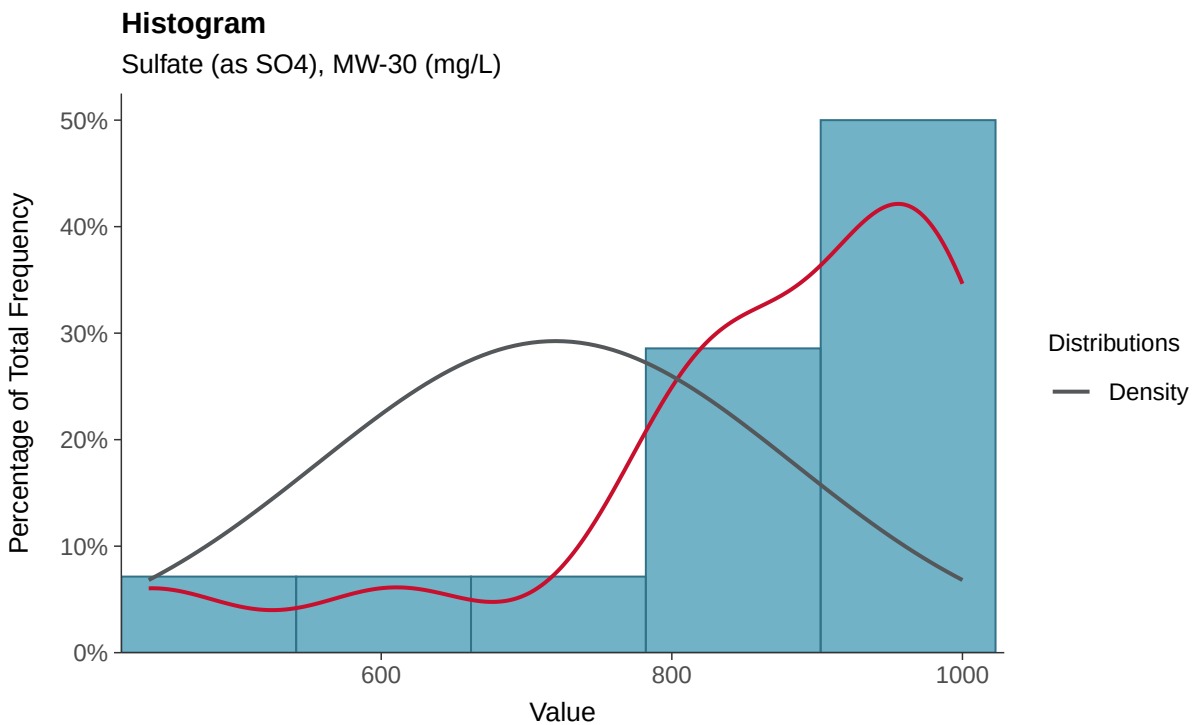
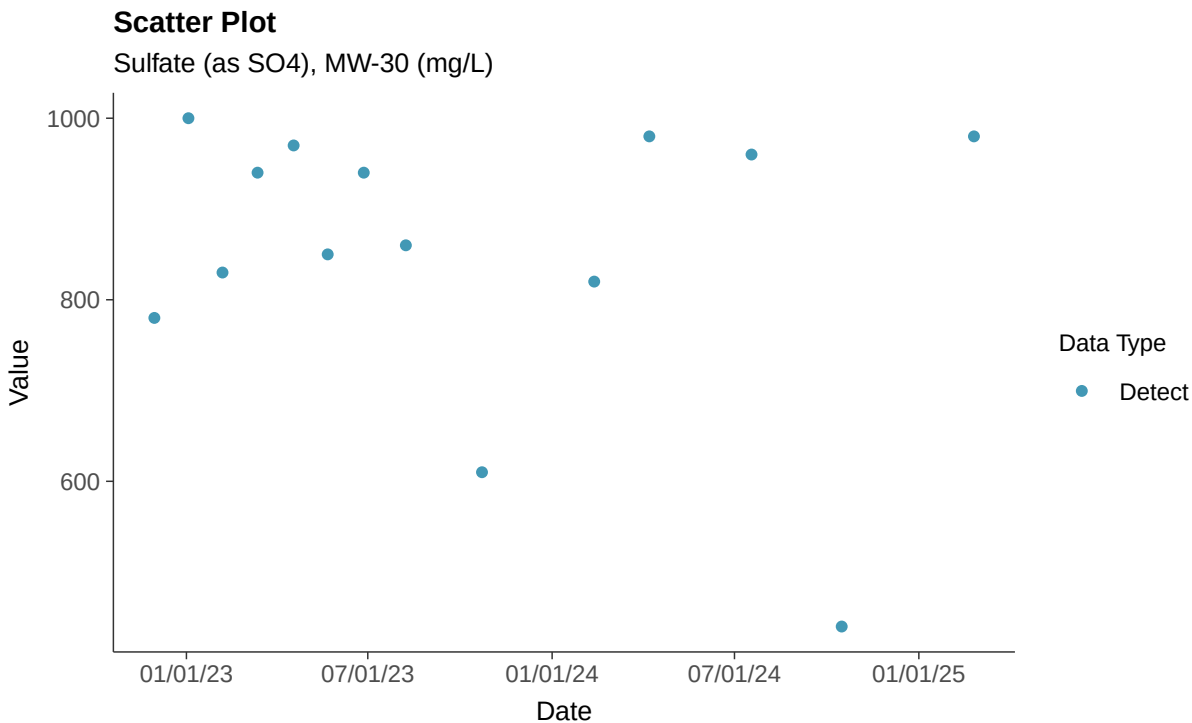


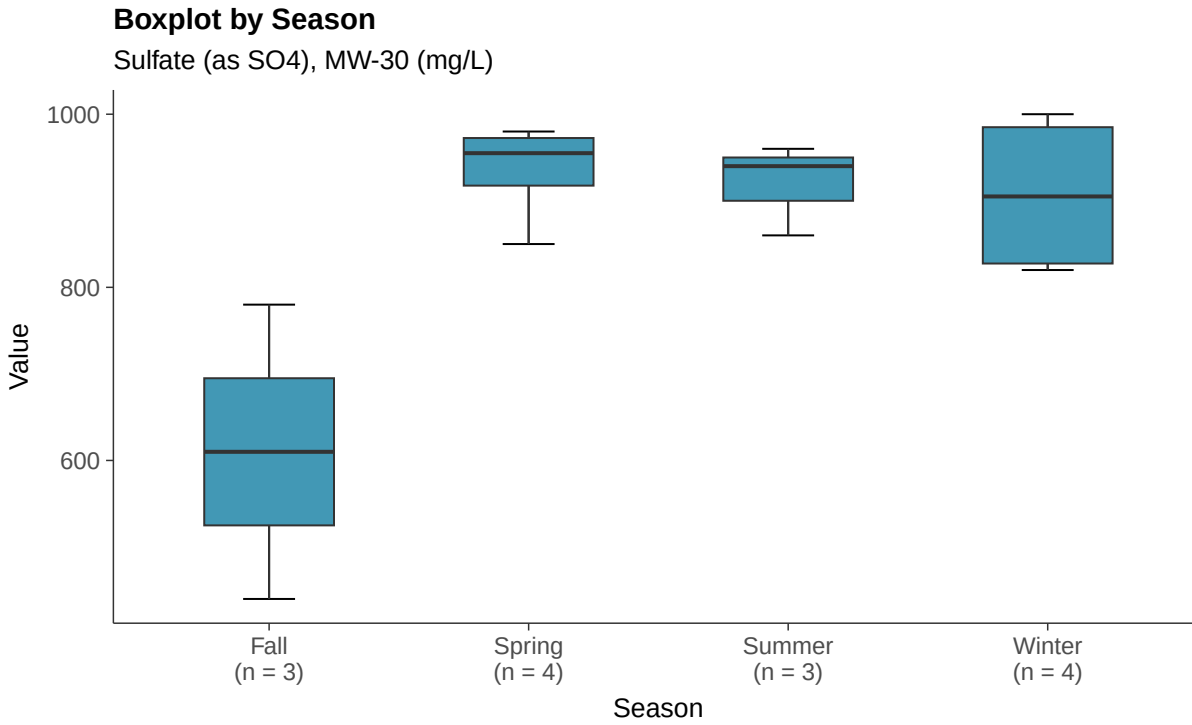
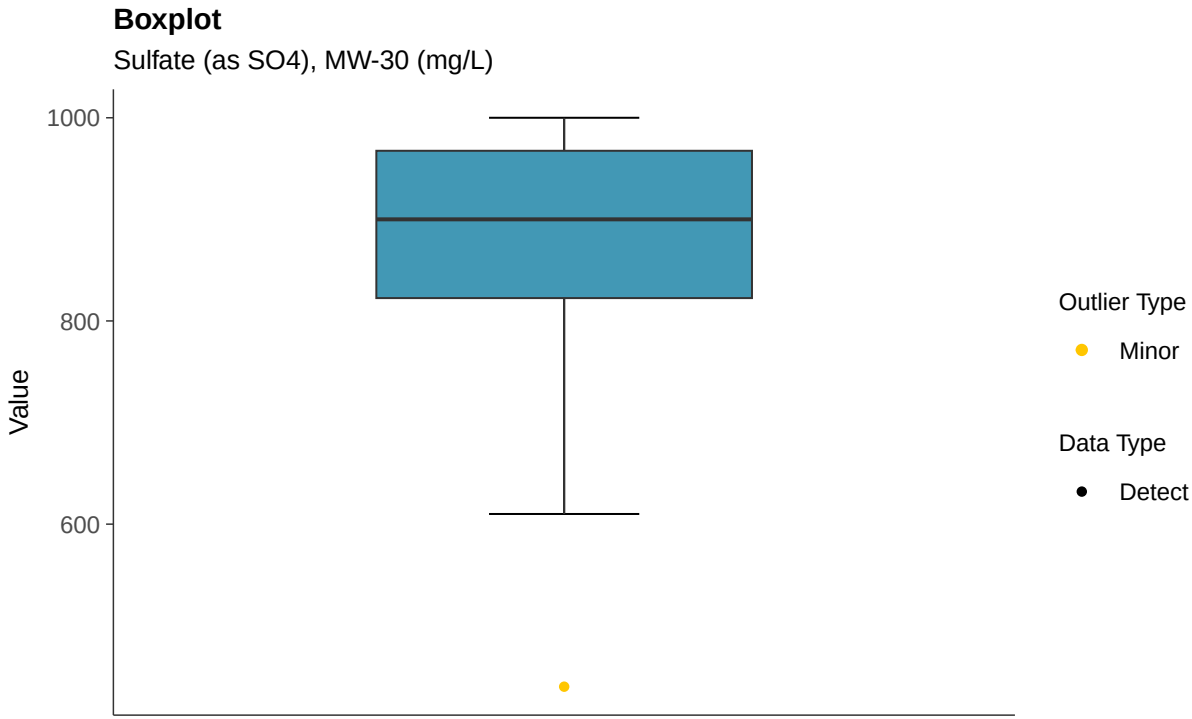


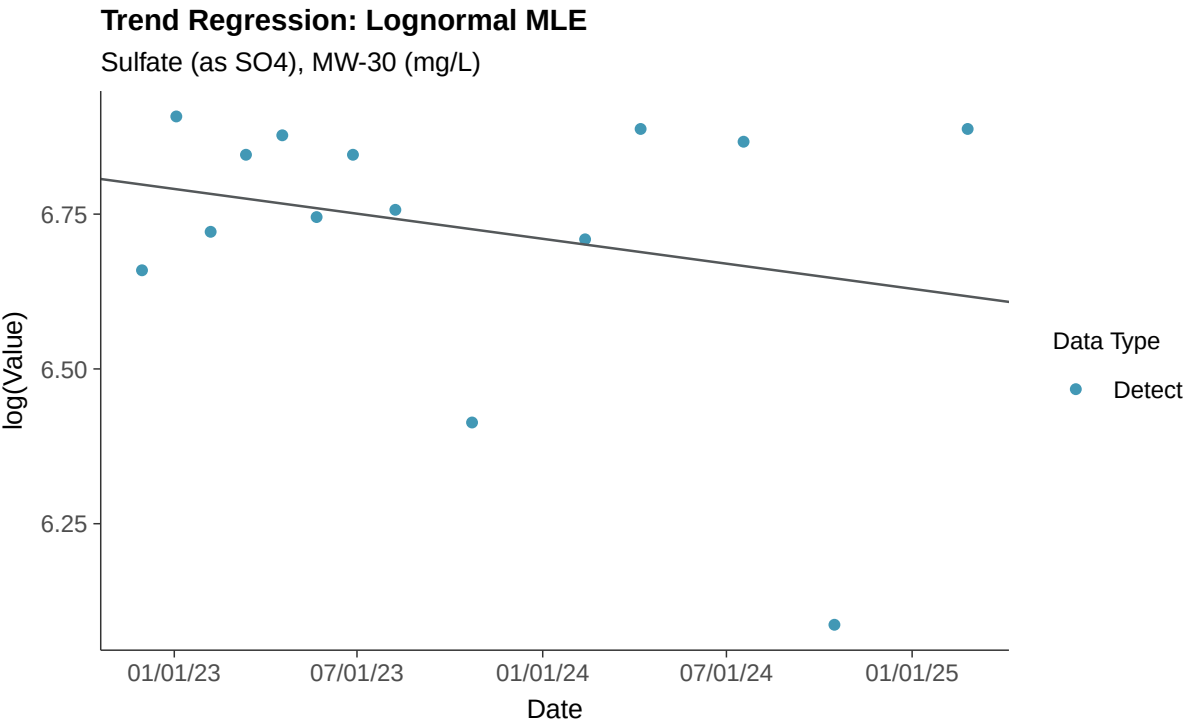
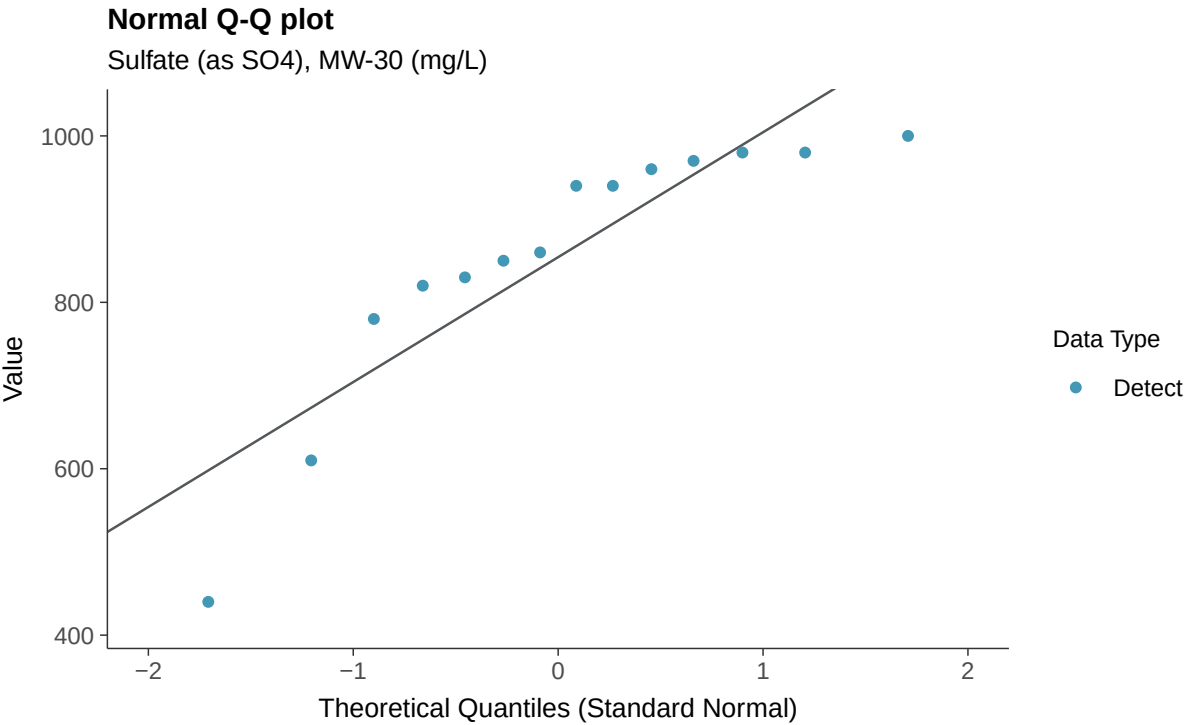


Appendix III: Sulfate (as SO₄), MW-30

ID: 40_1_3_124



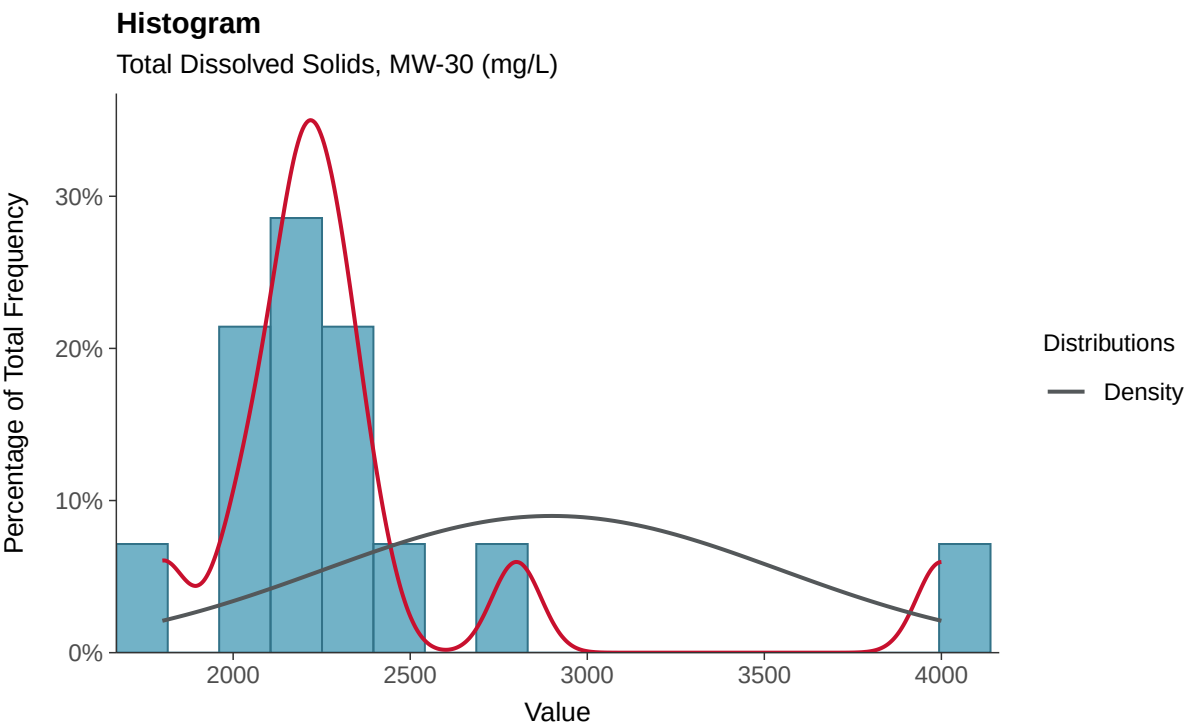
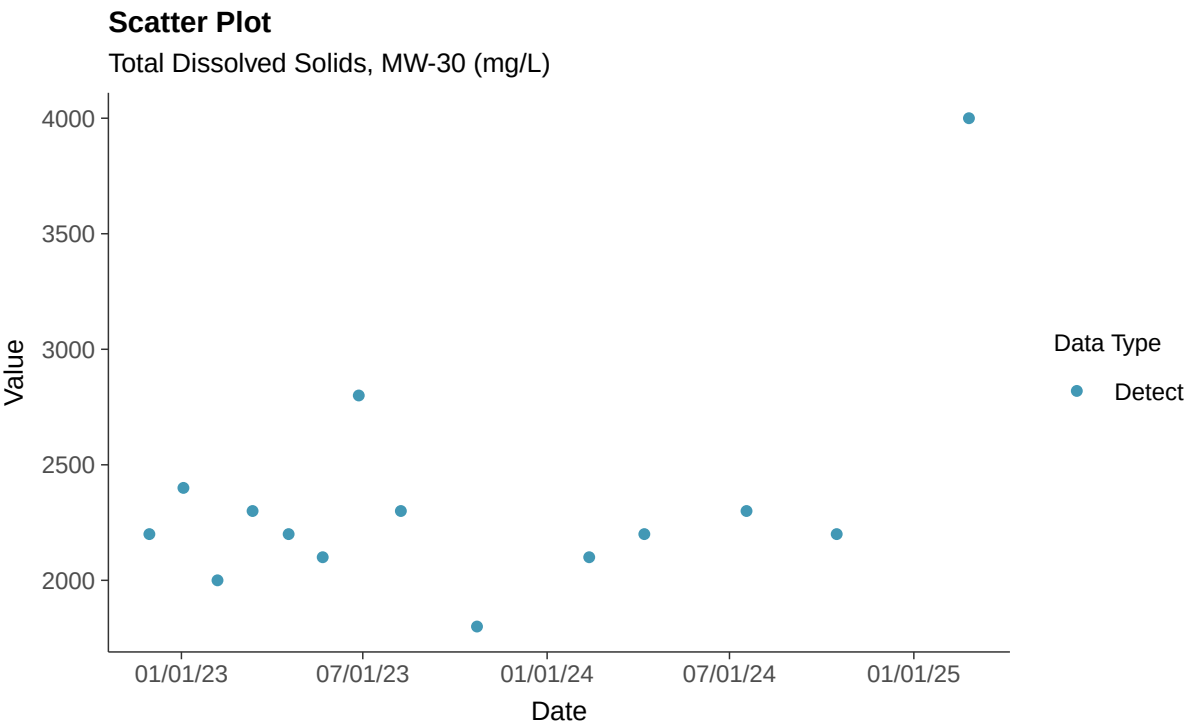


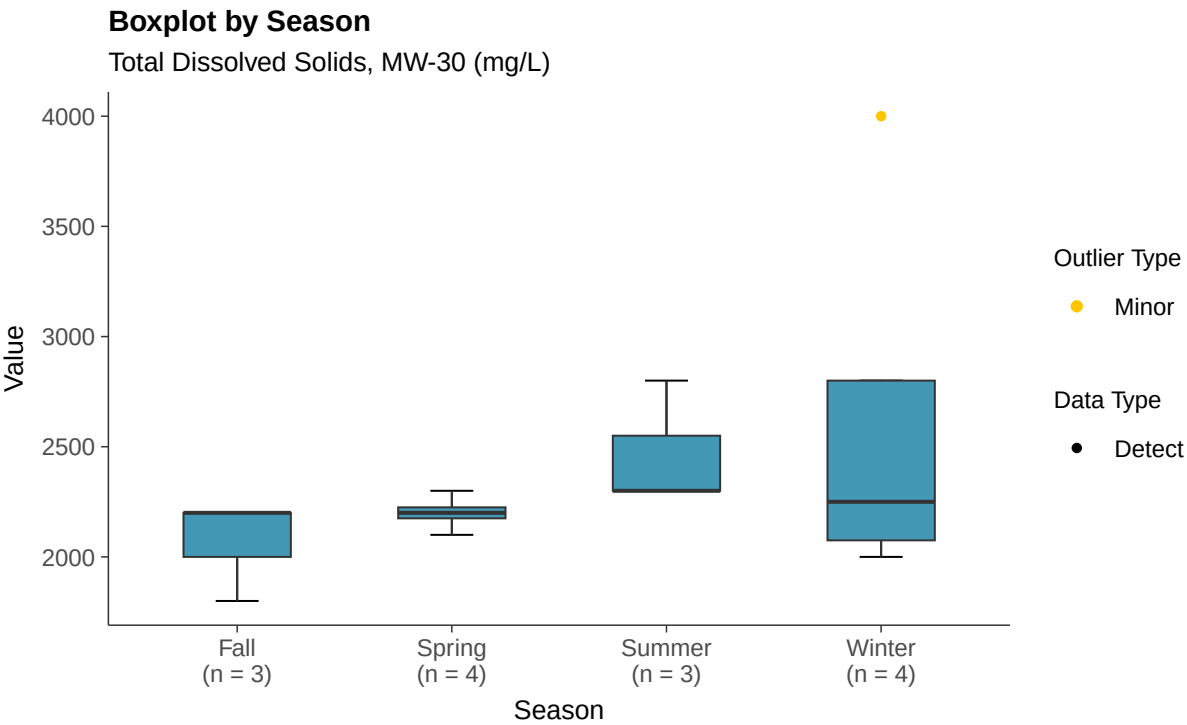
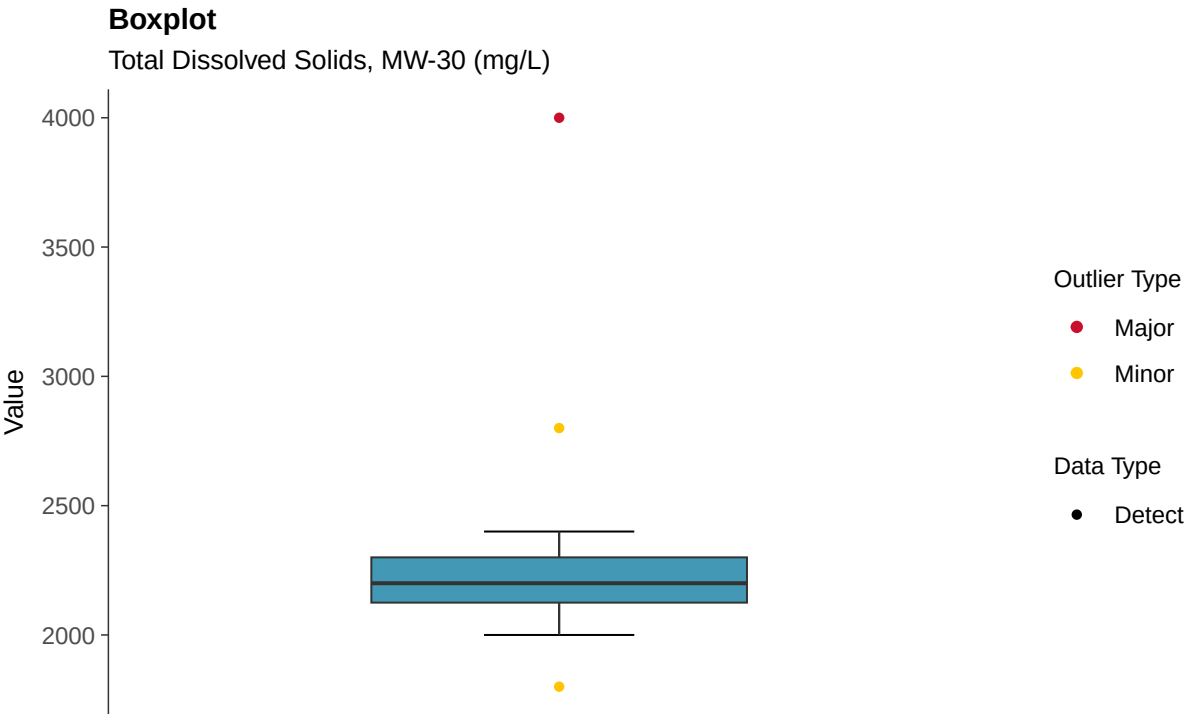




Appendix III: Total Dissolved Solids, MW-30

ID: 40_1_3_126

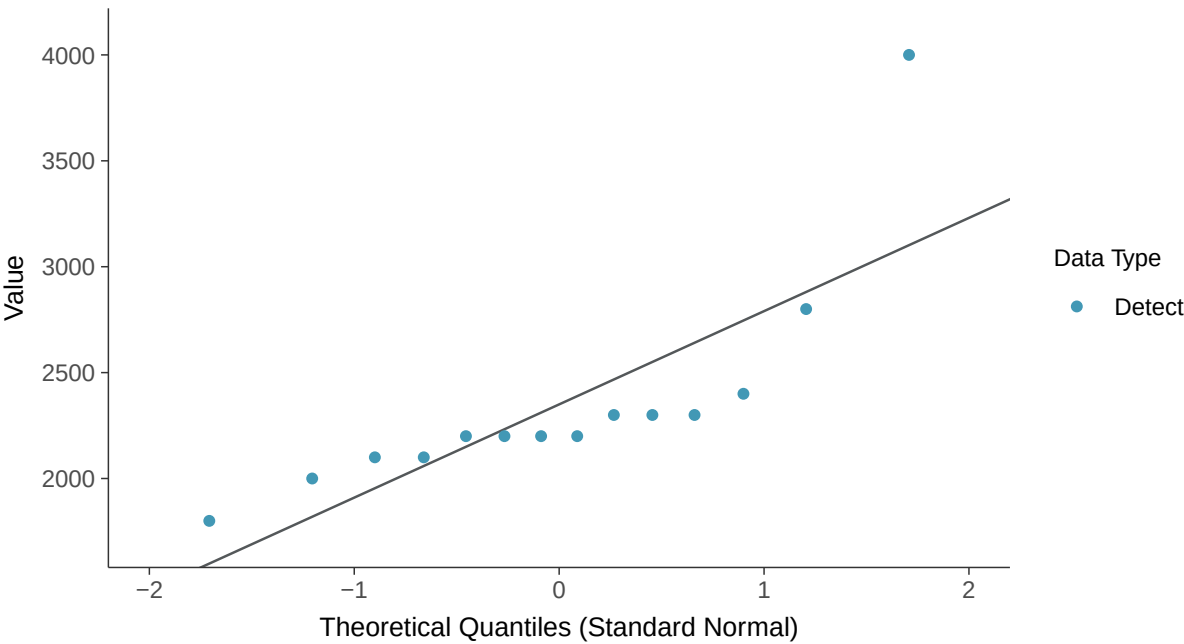






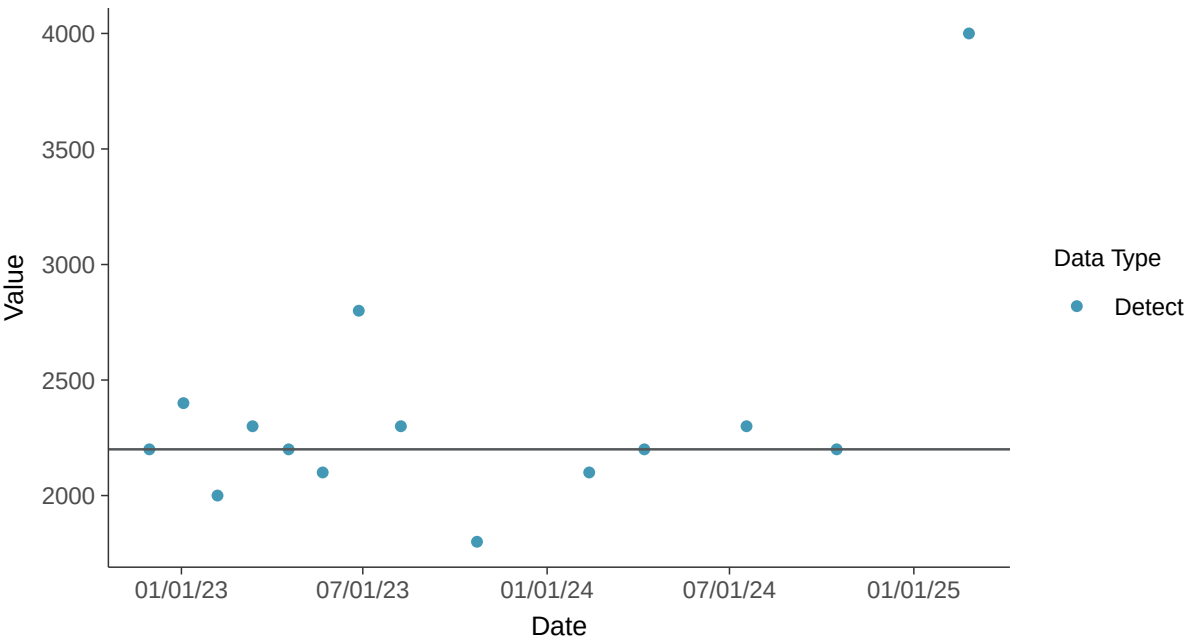
Normal Q-Q plot

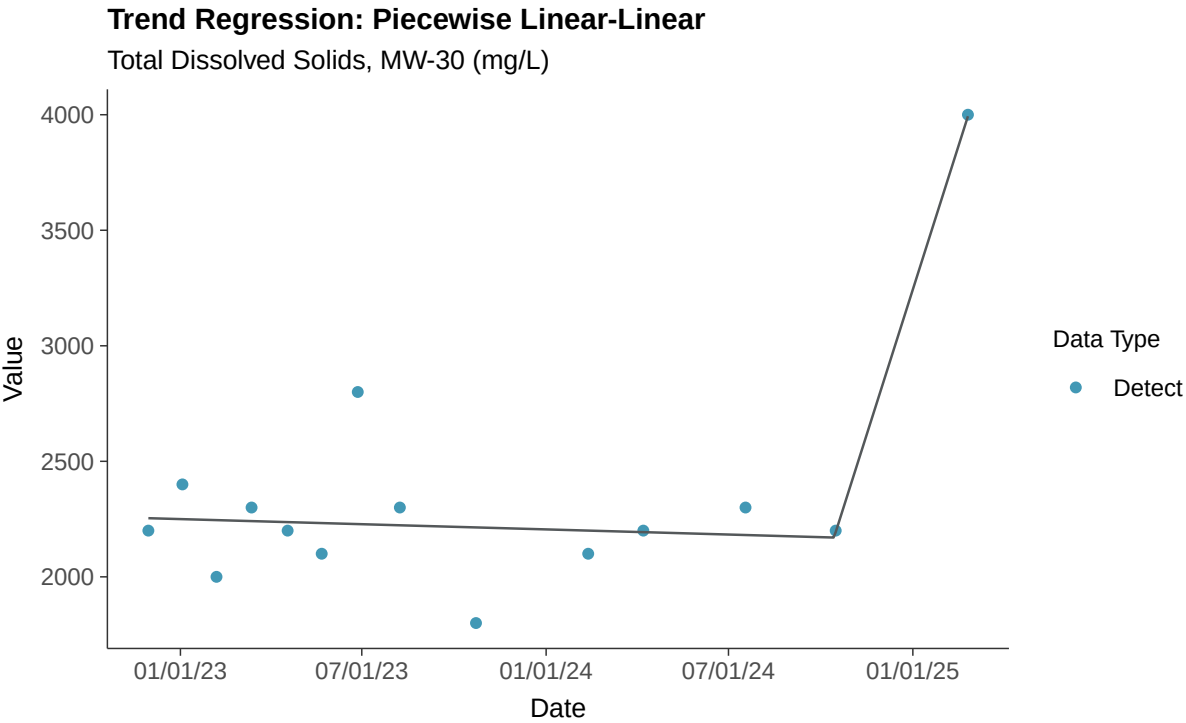
Total Dissolved Solids, MW-30 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-30 (mg/L)

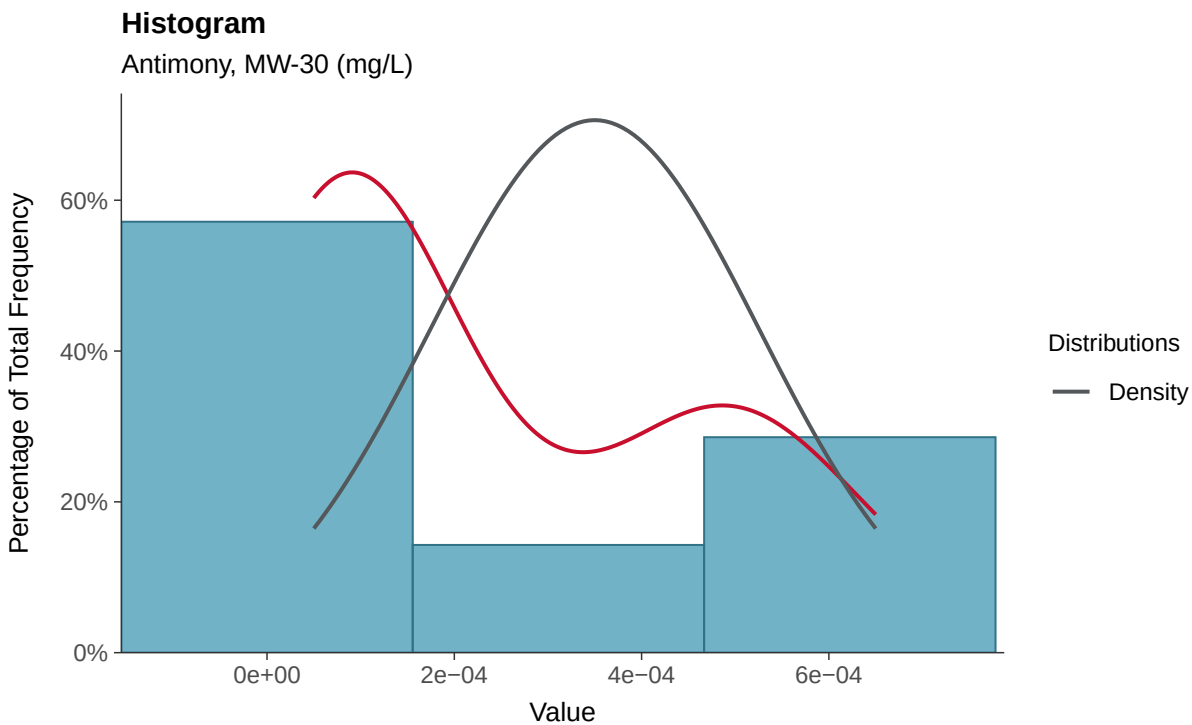
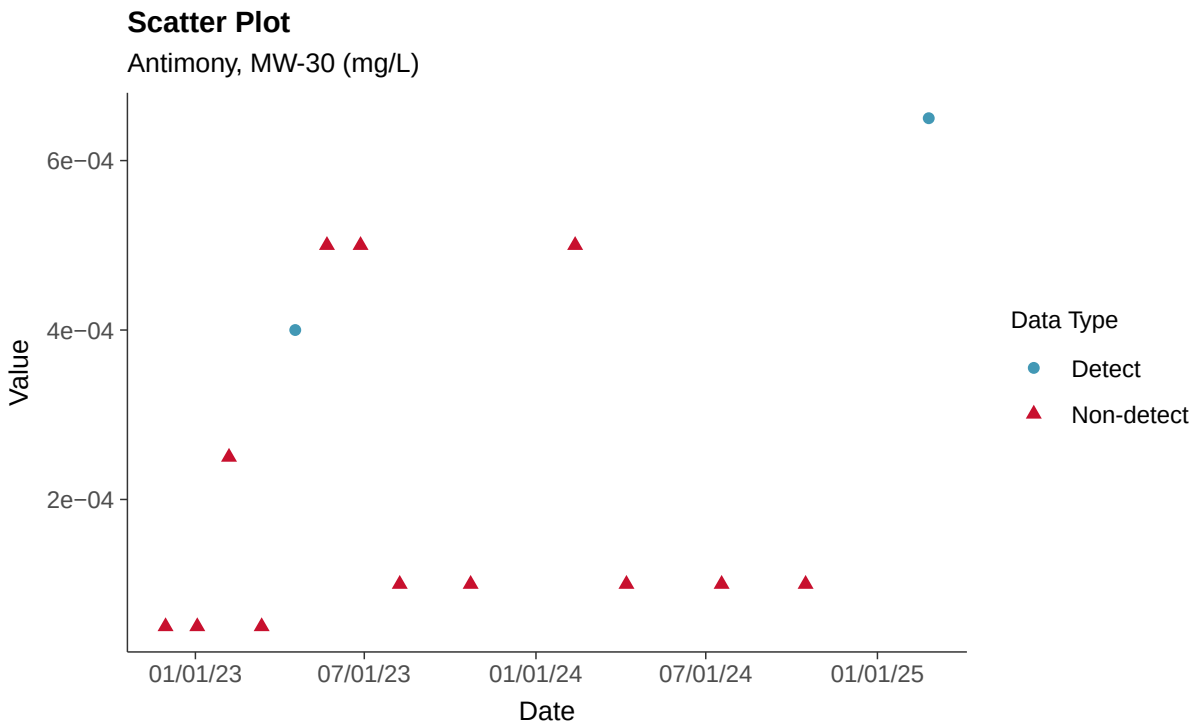


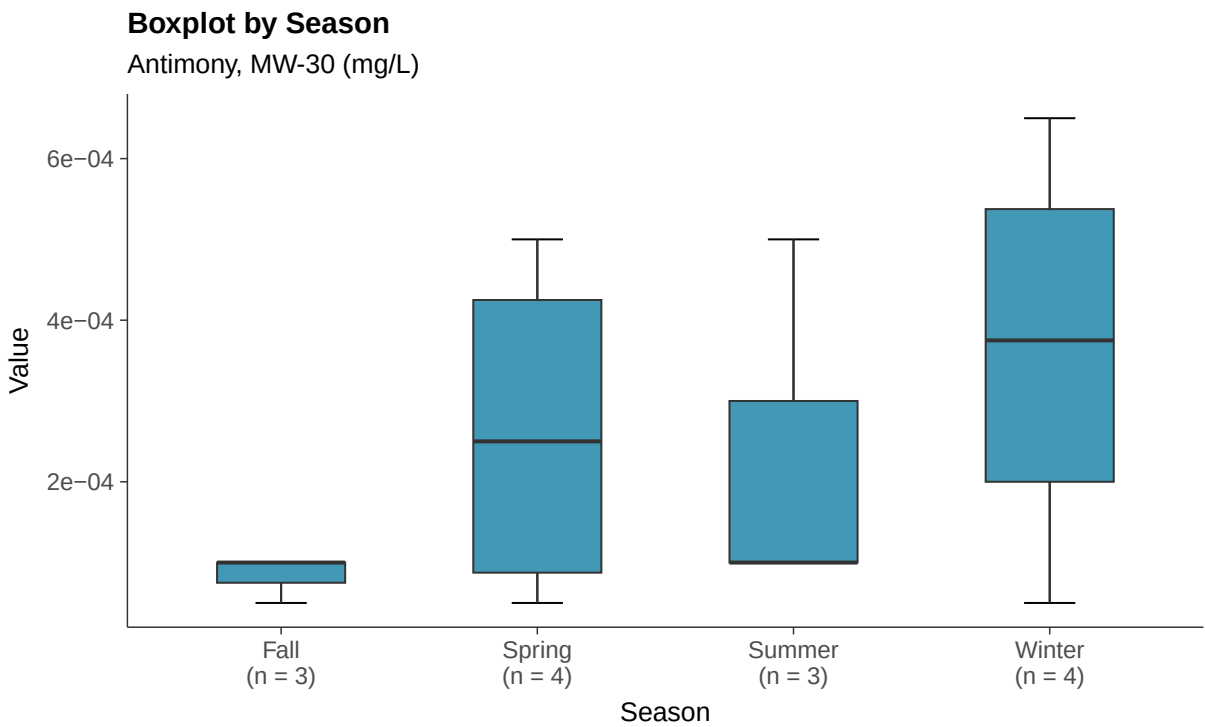
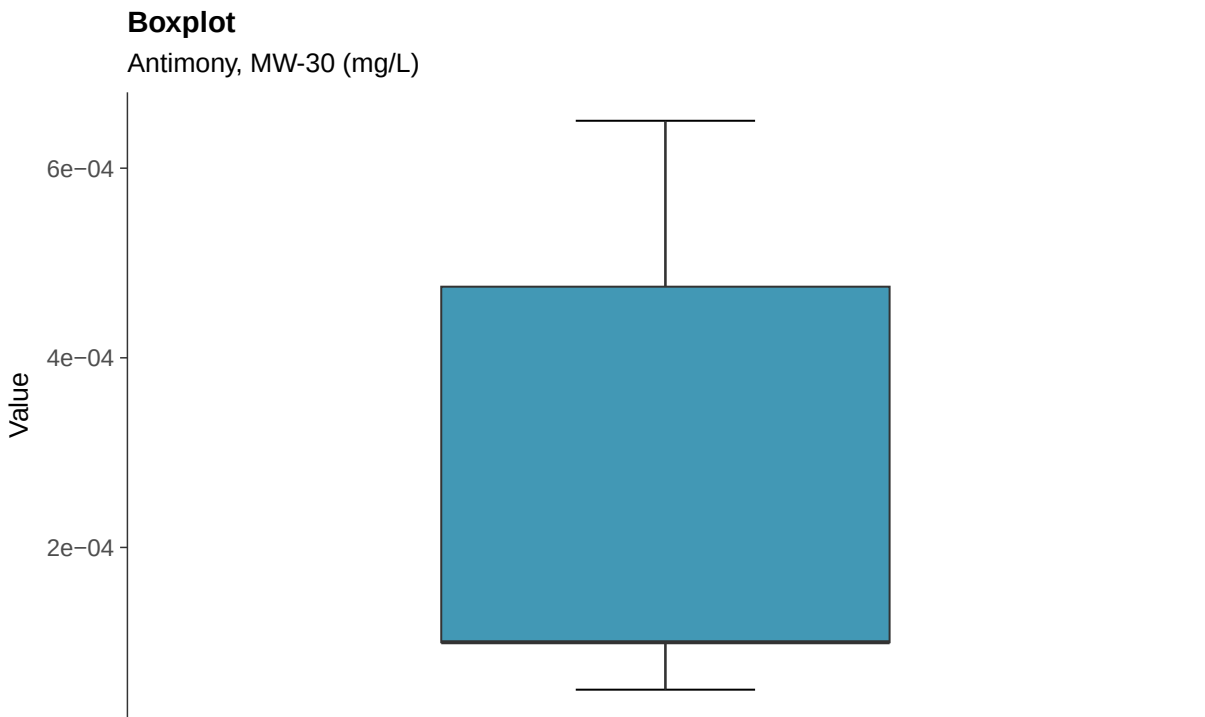


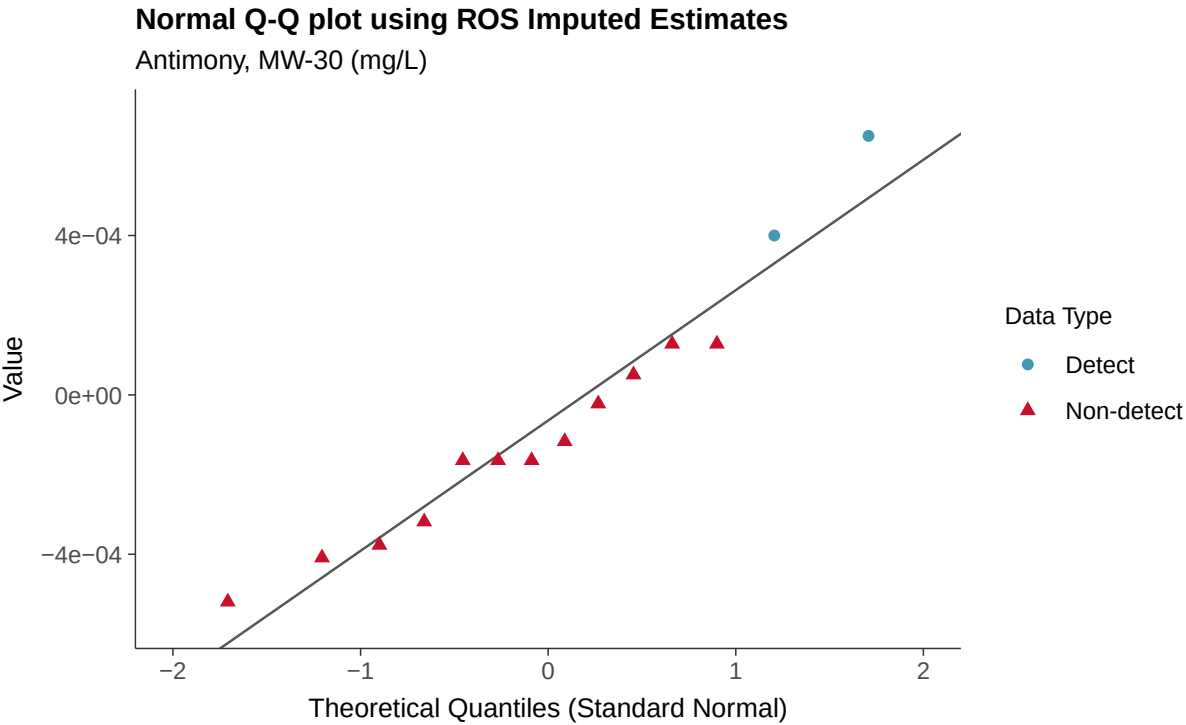


Appendix IV: Antimony, MW-30

ID: 40_1_4_101



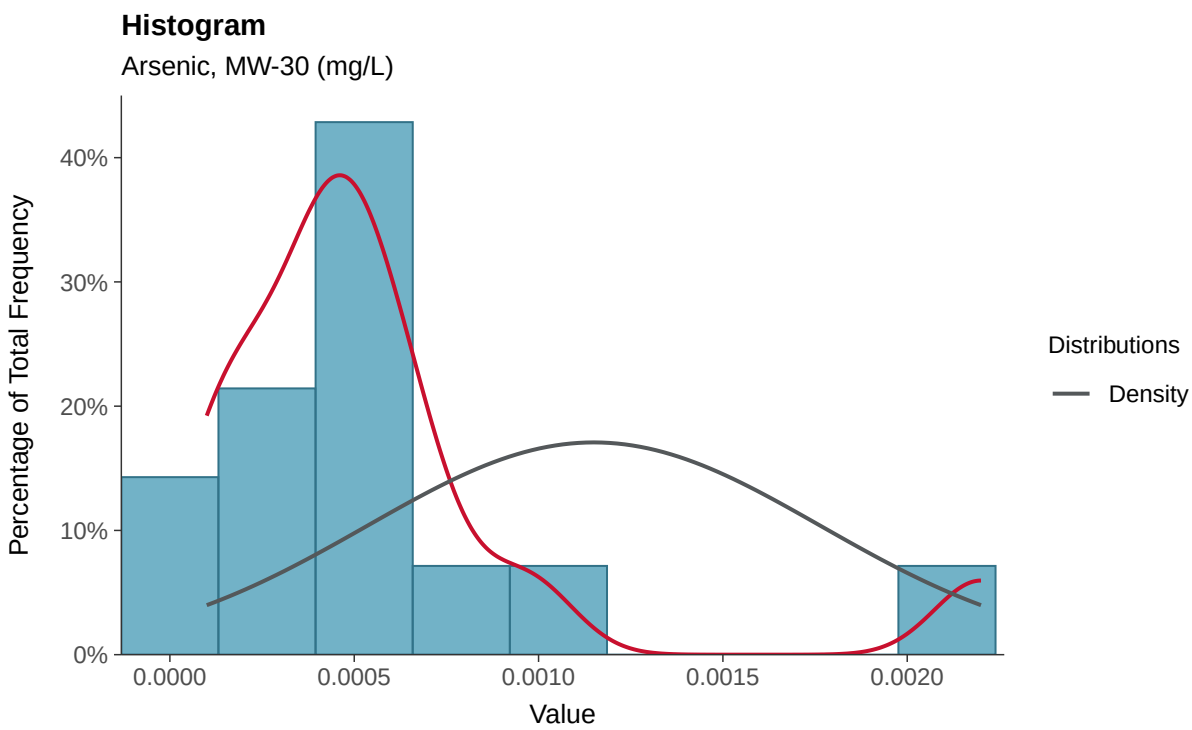
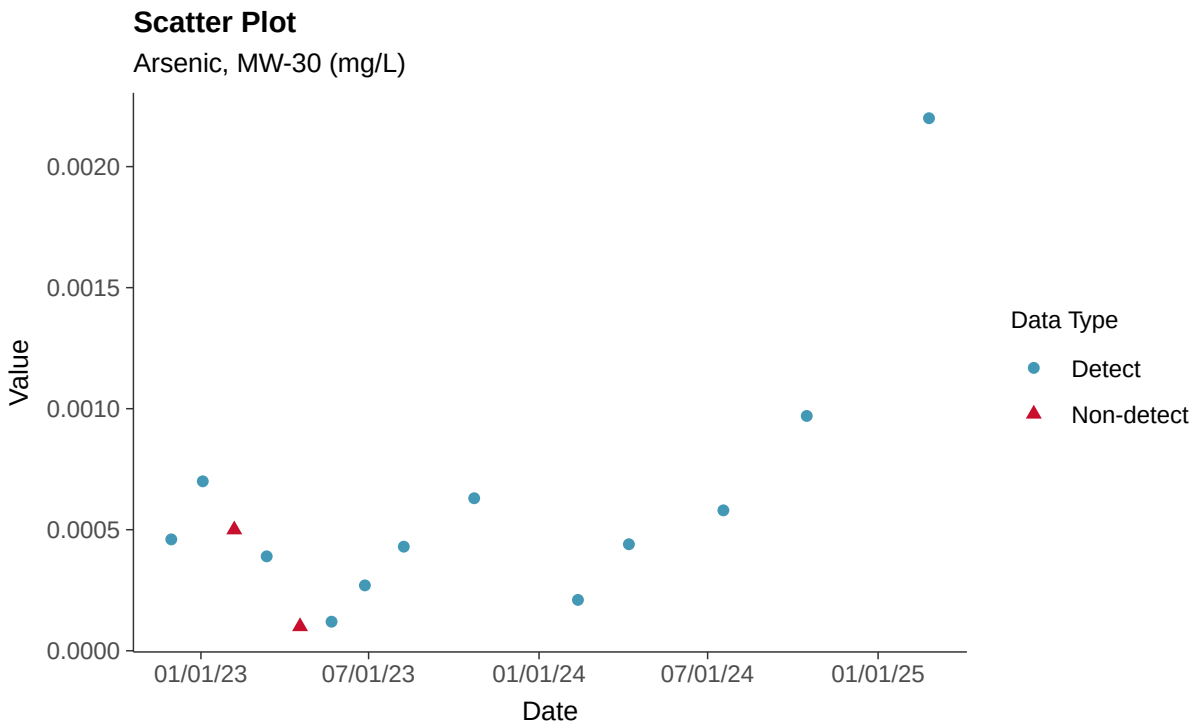


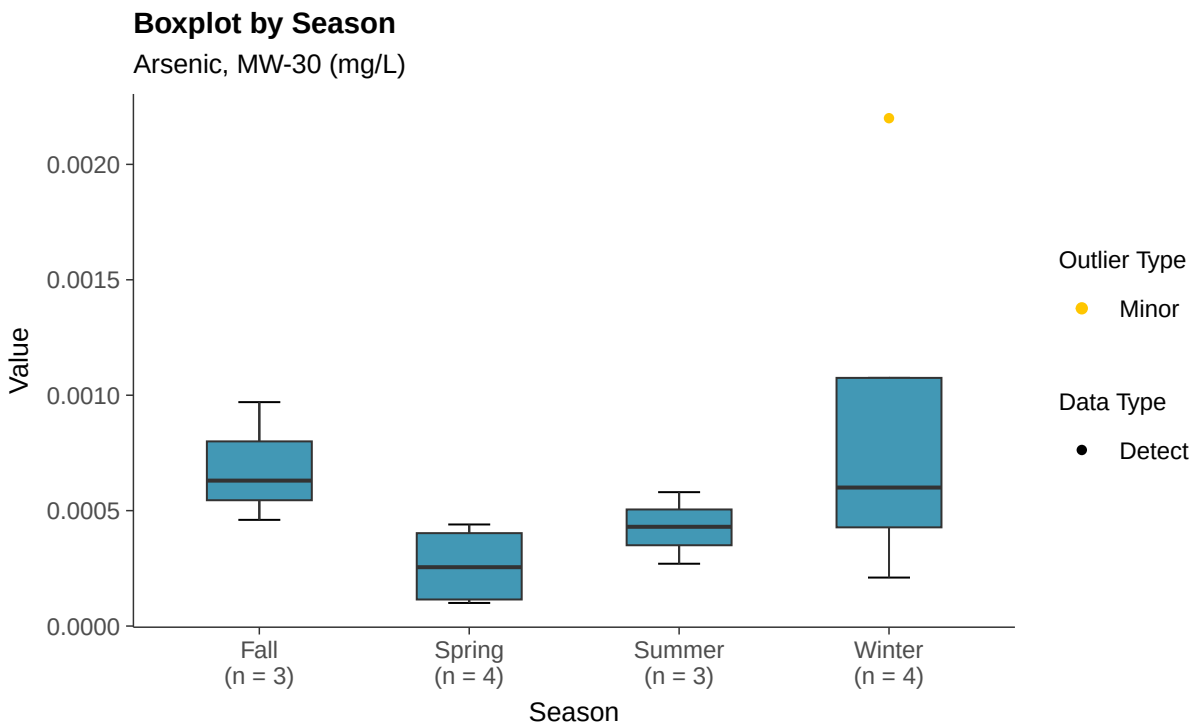
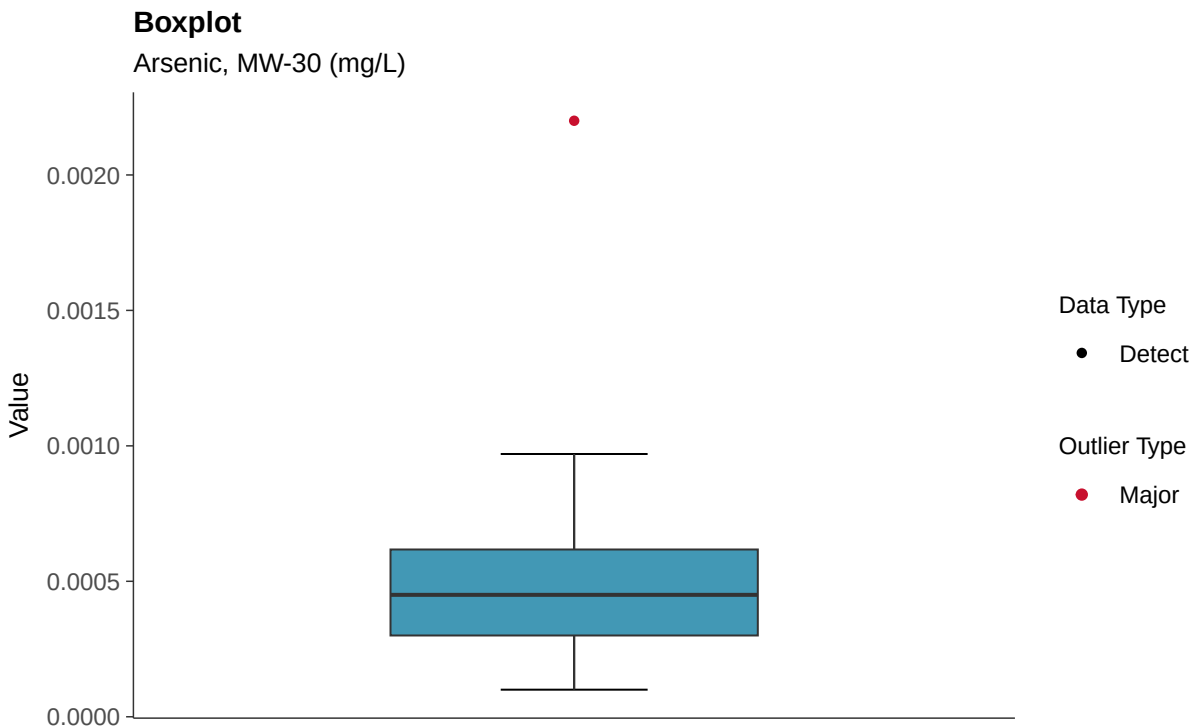




Appendix IV: Arsenic, MW-30

ID: 40_1_4_102

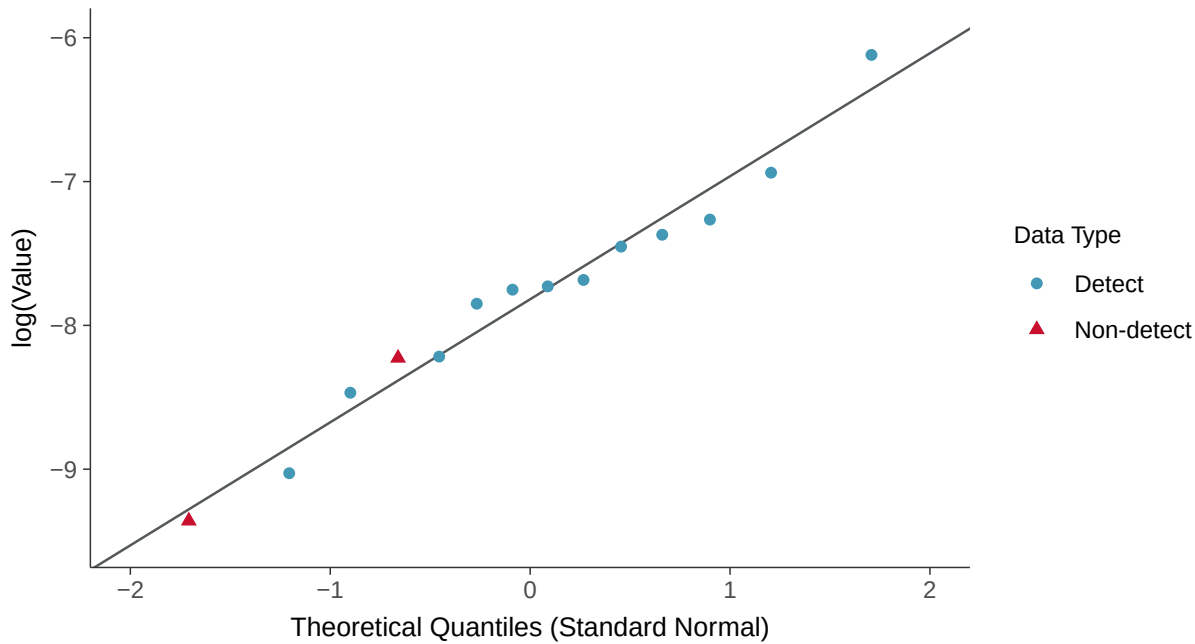






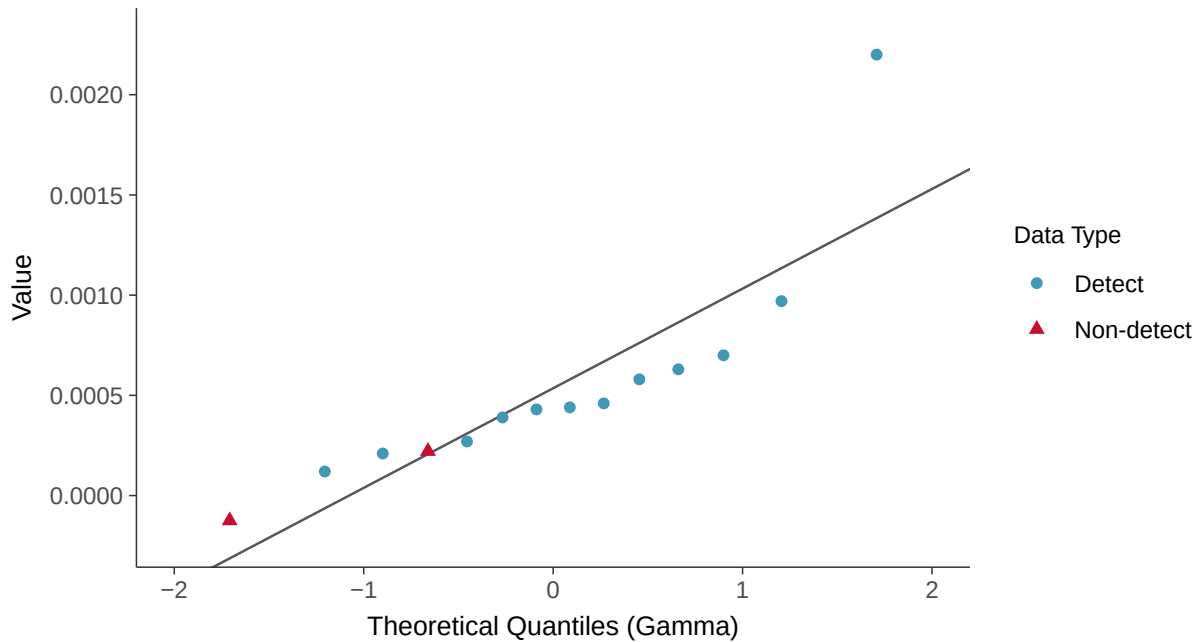
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-30 (mg/L)

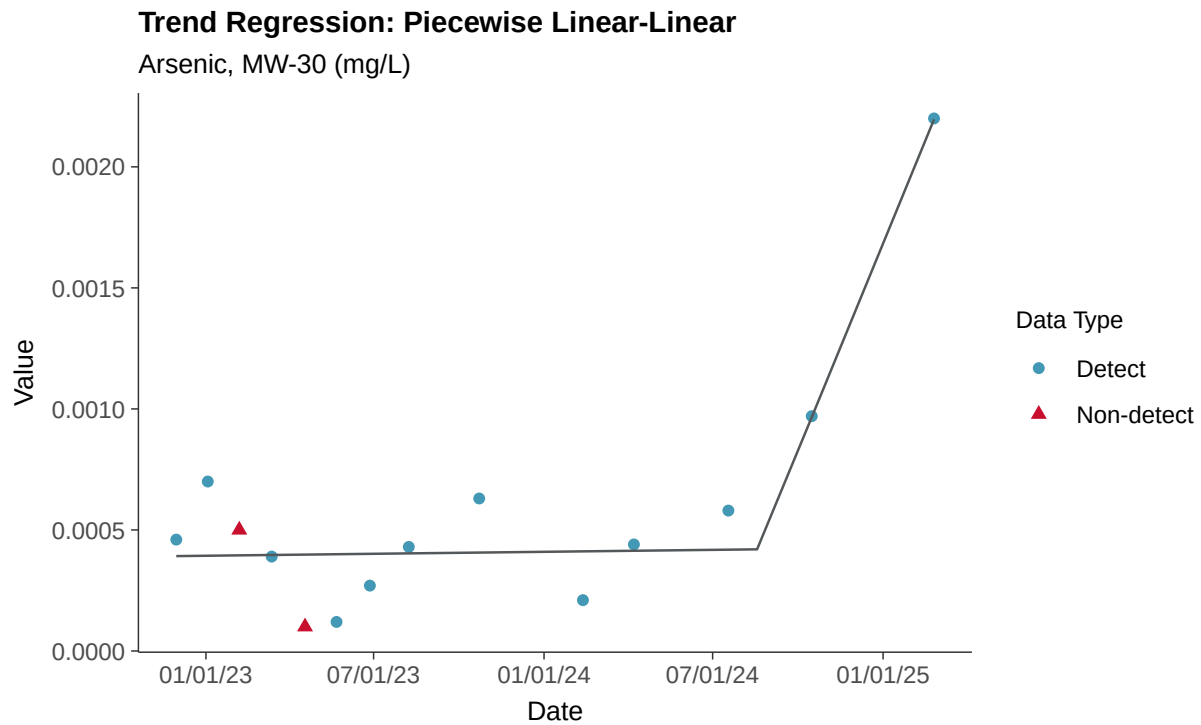


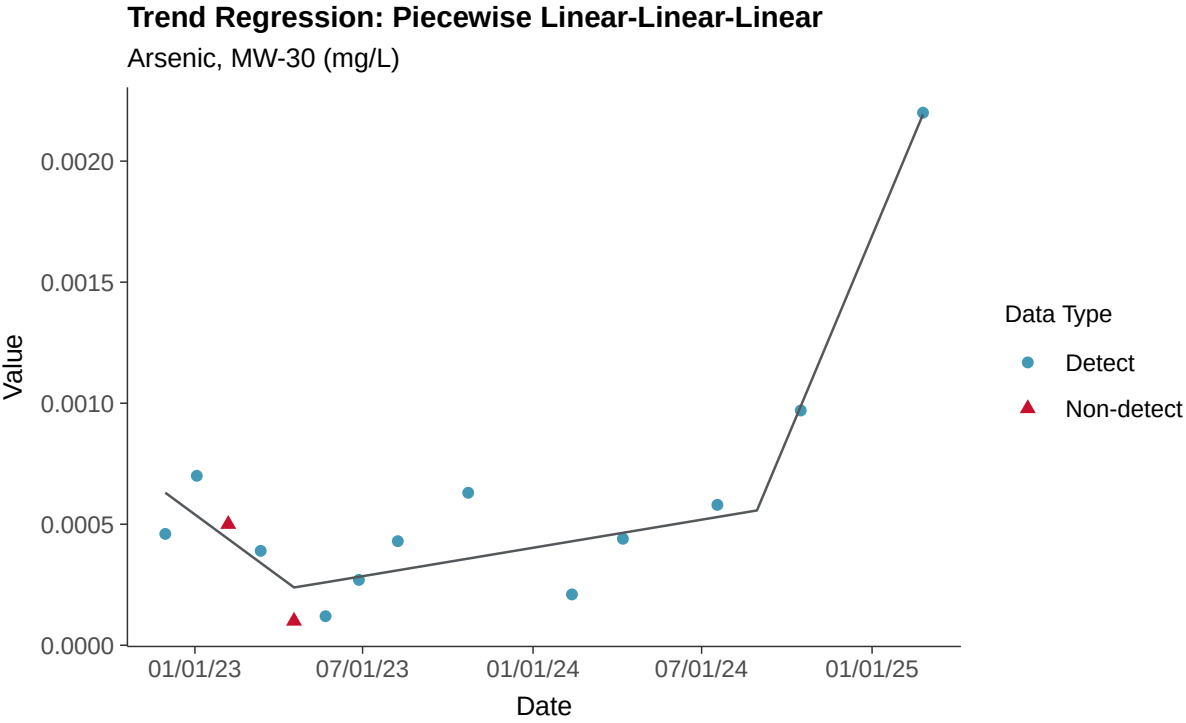
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-30 (mg/L)



Arsenic, MW-30 (mg/L)

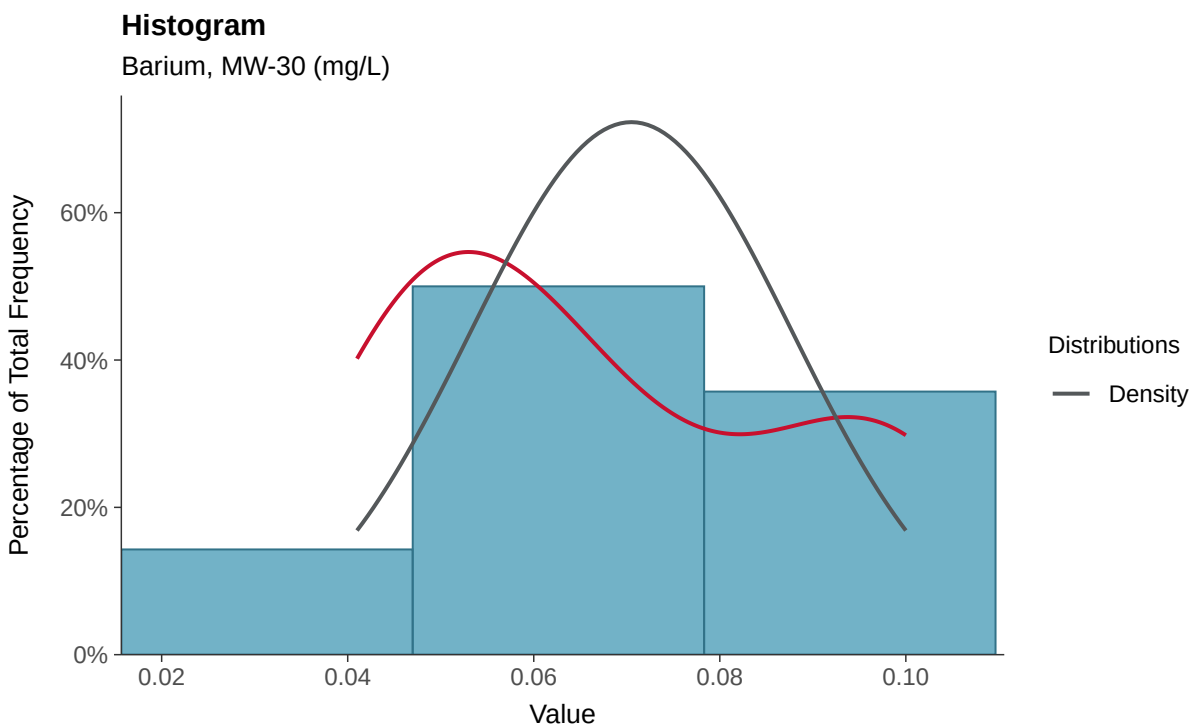
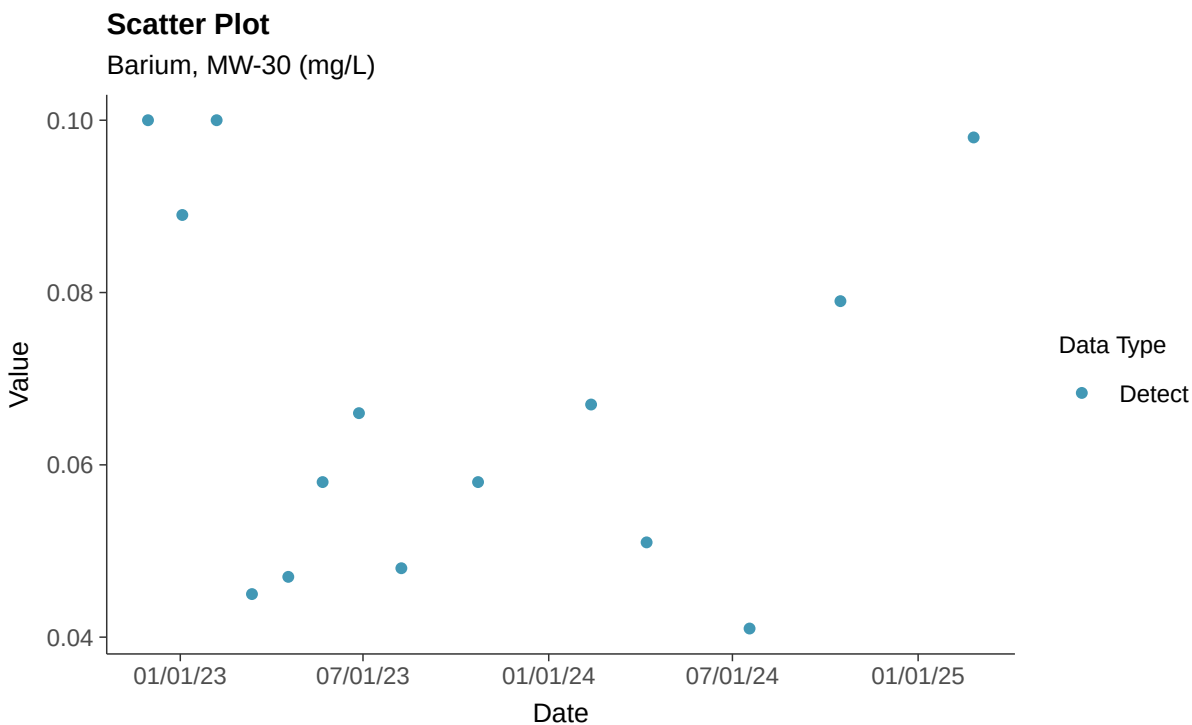


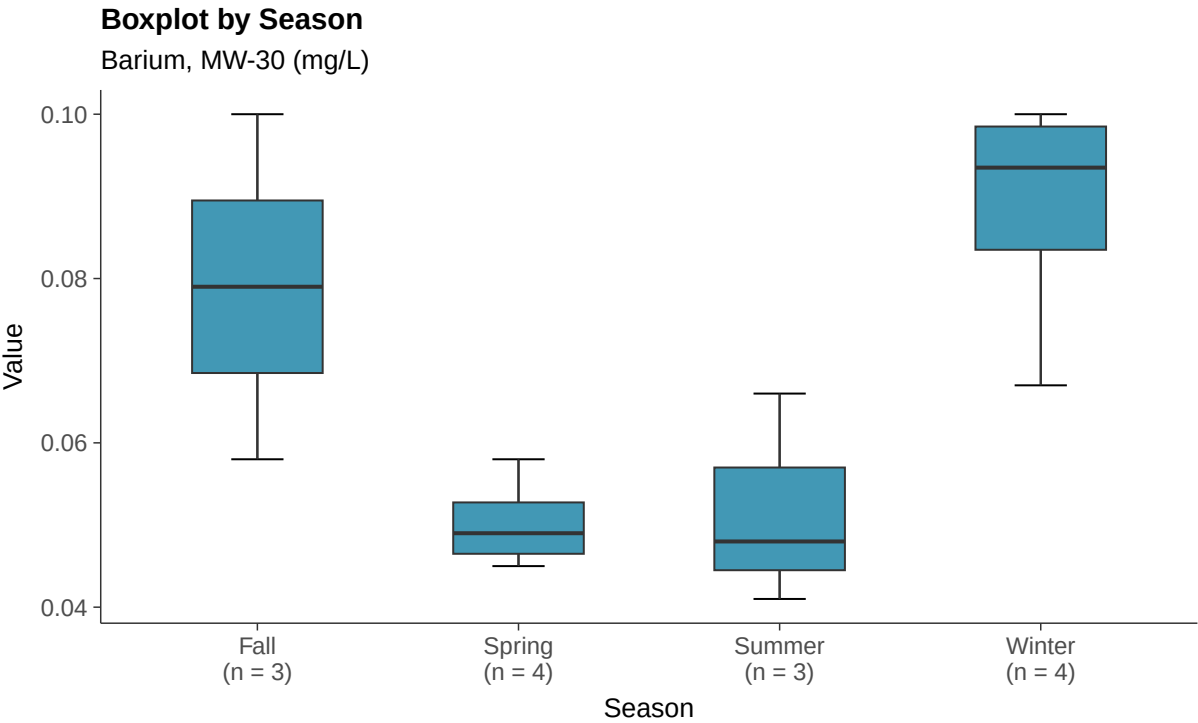
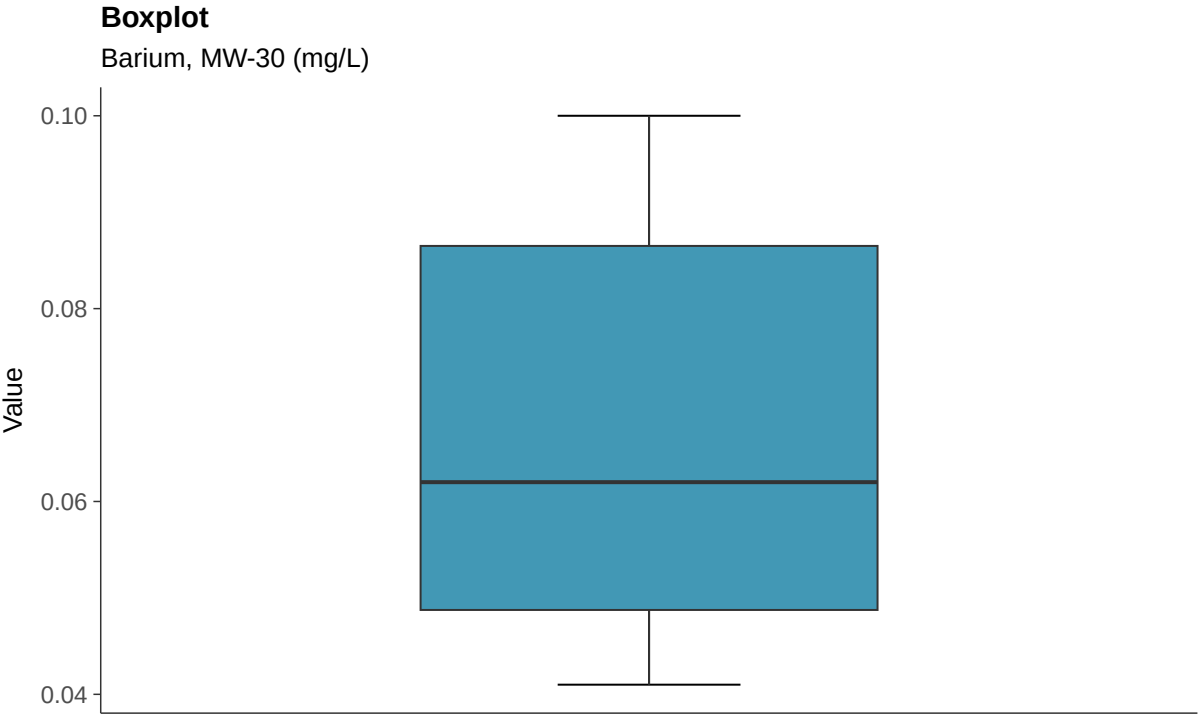


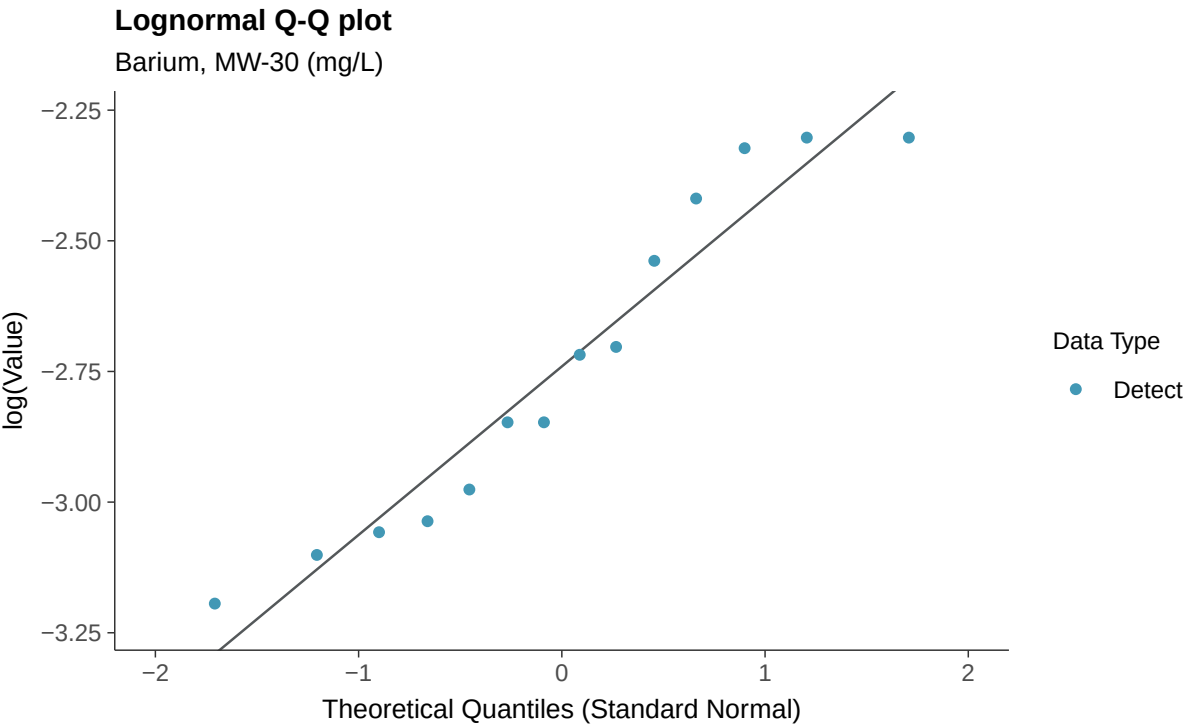
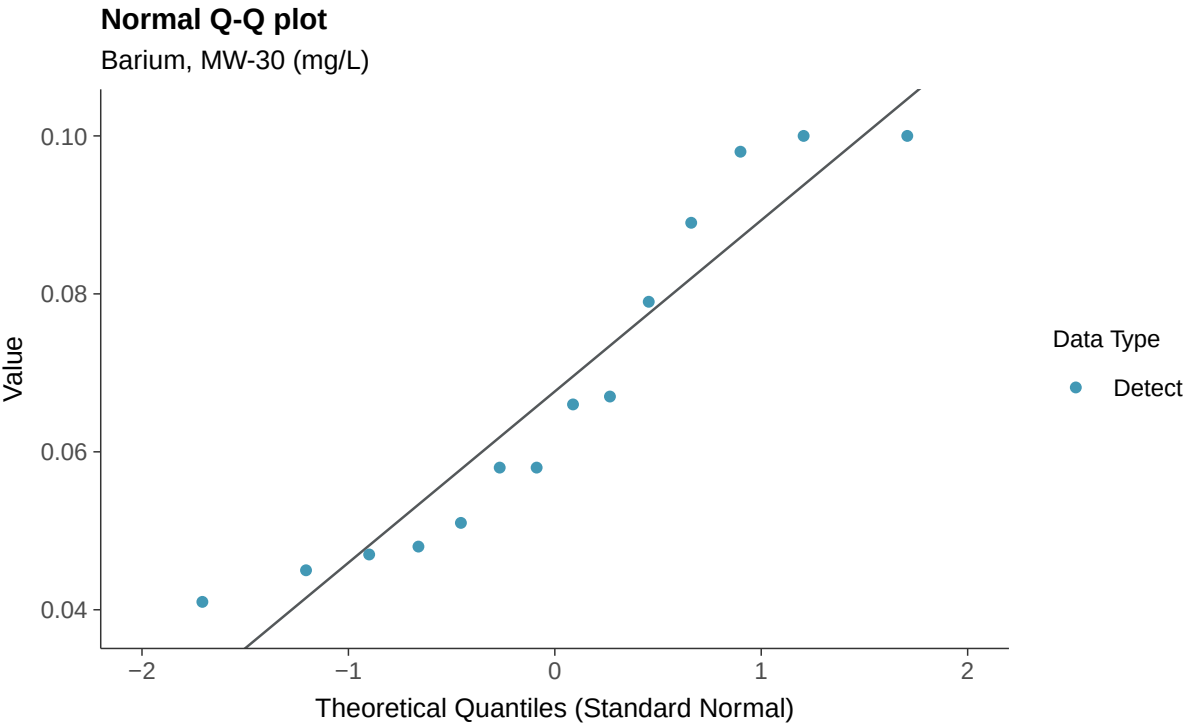


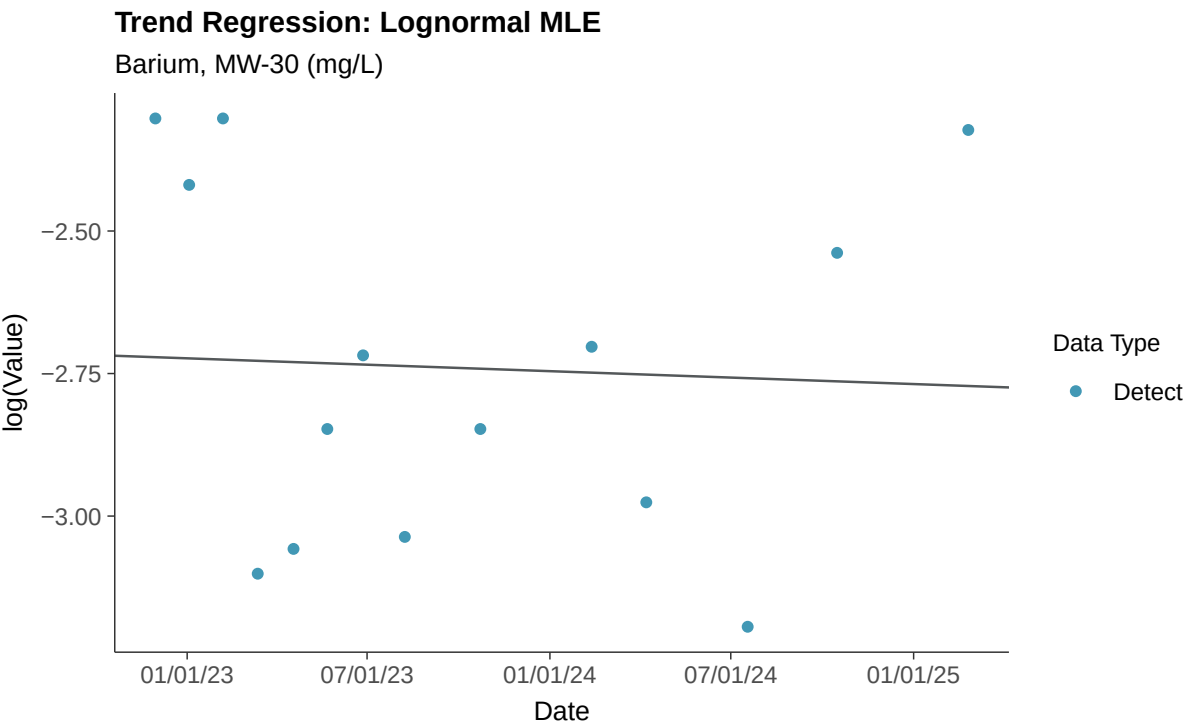
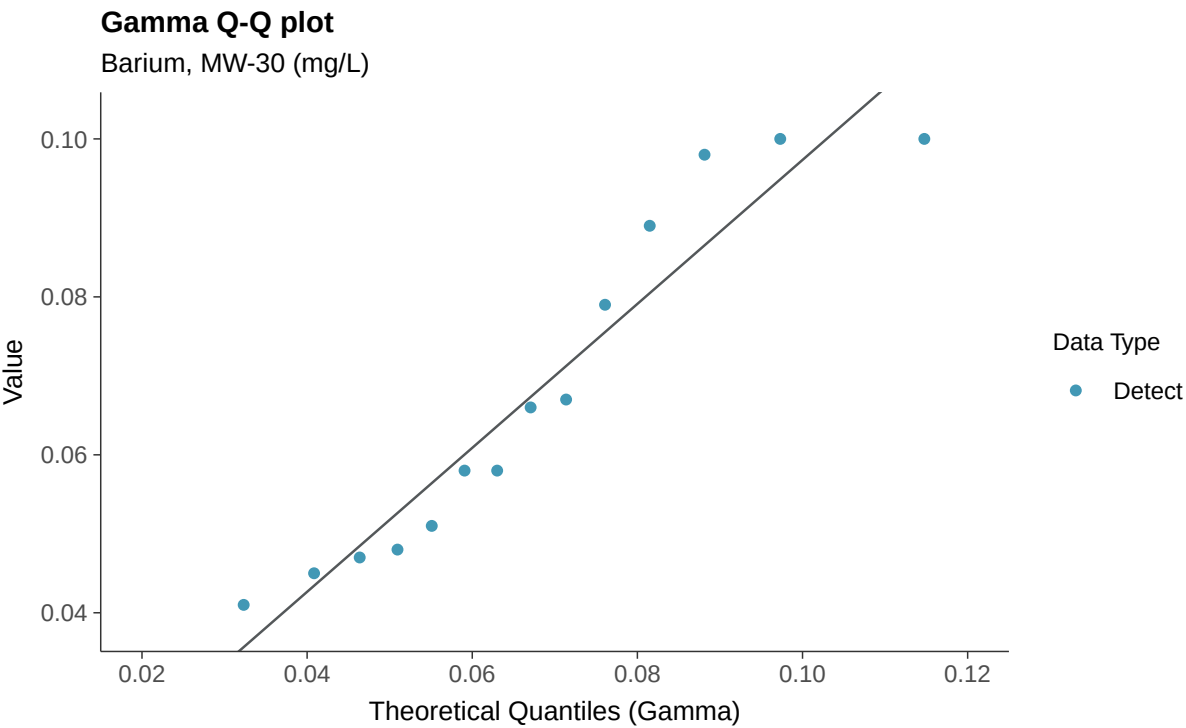
Appendix IV: Barium, MW-30

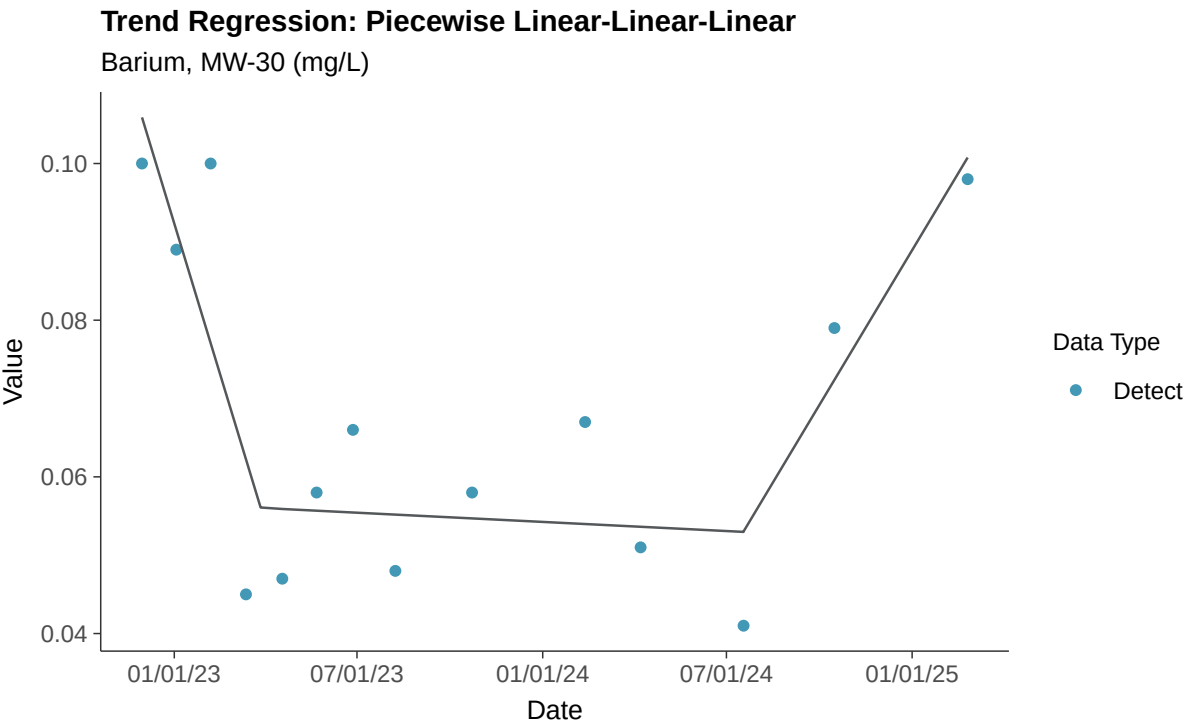
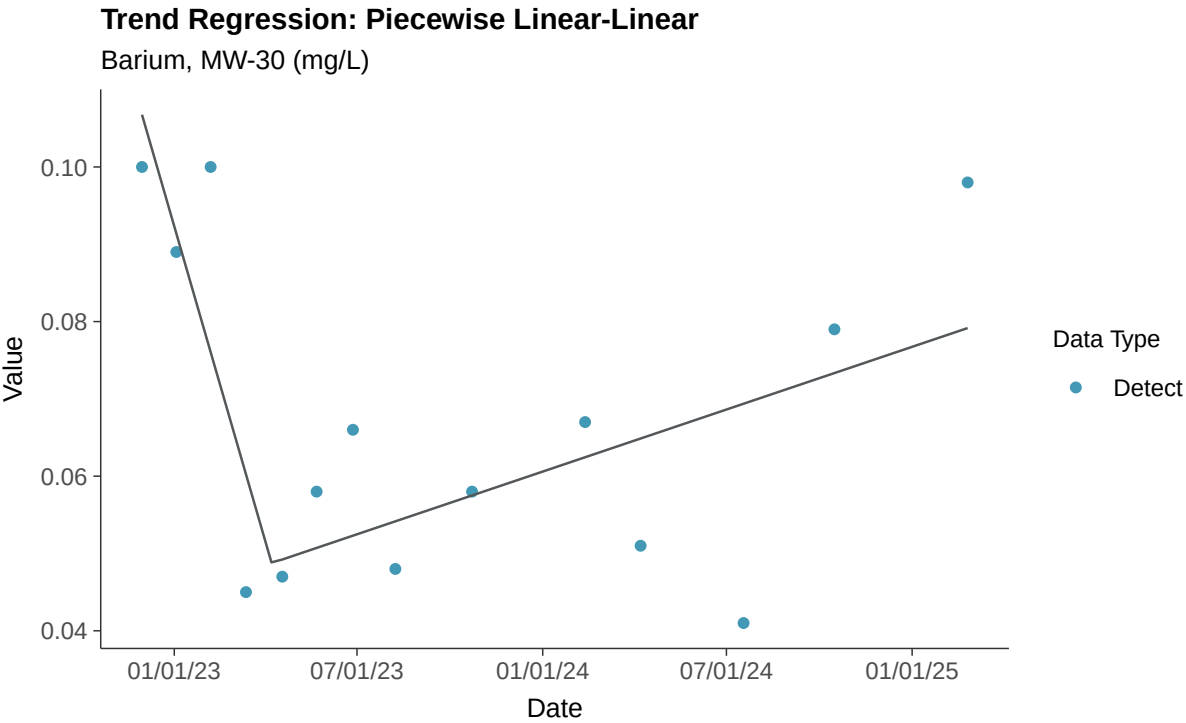
ID: 40_1_4_103







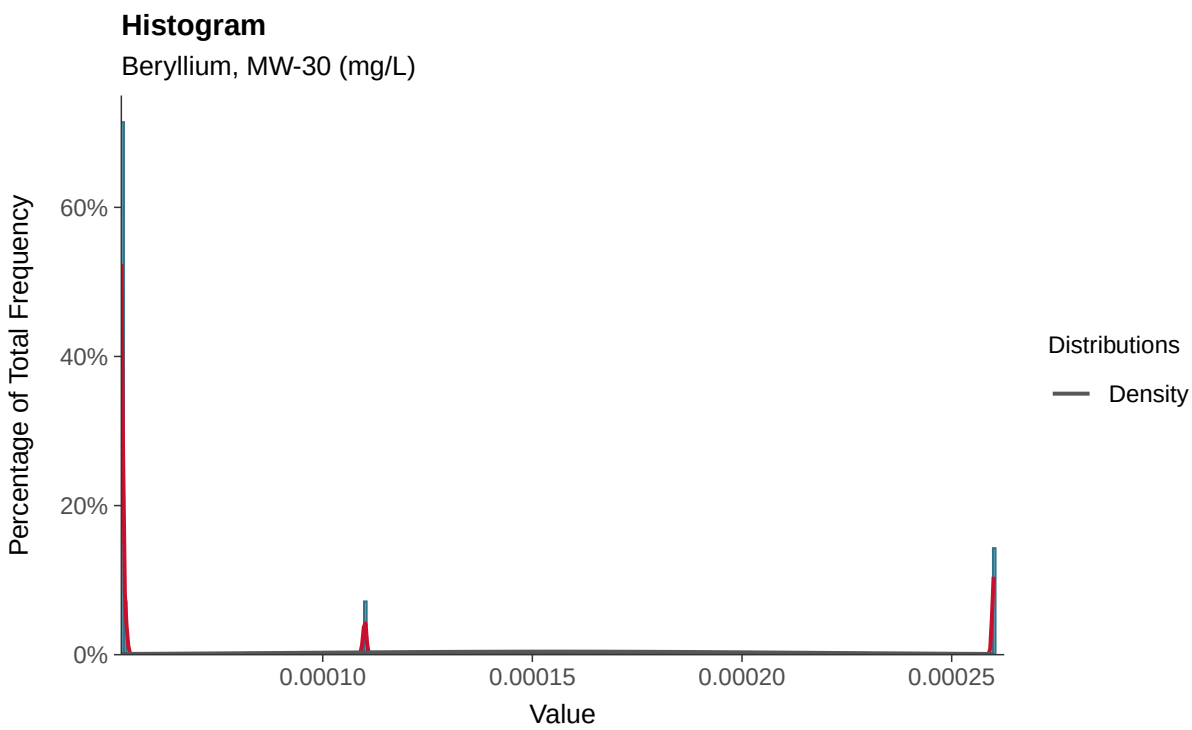
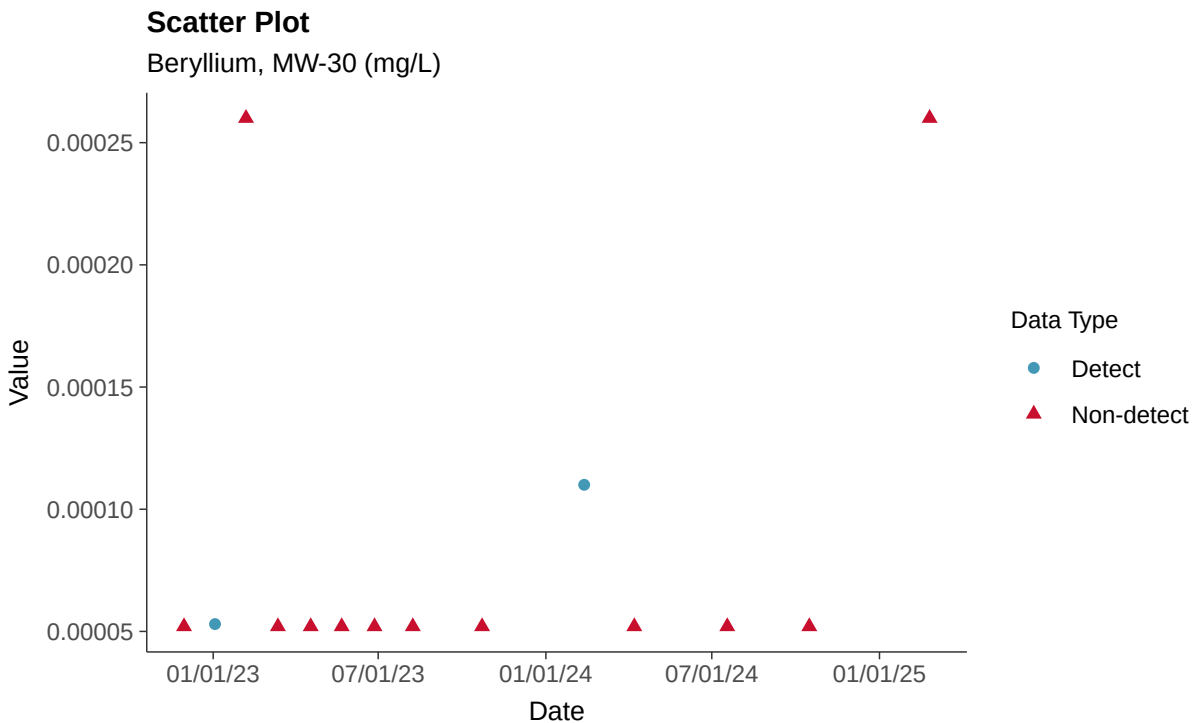


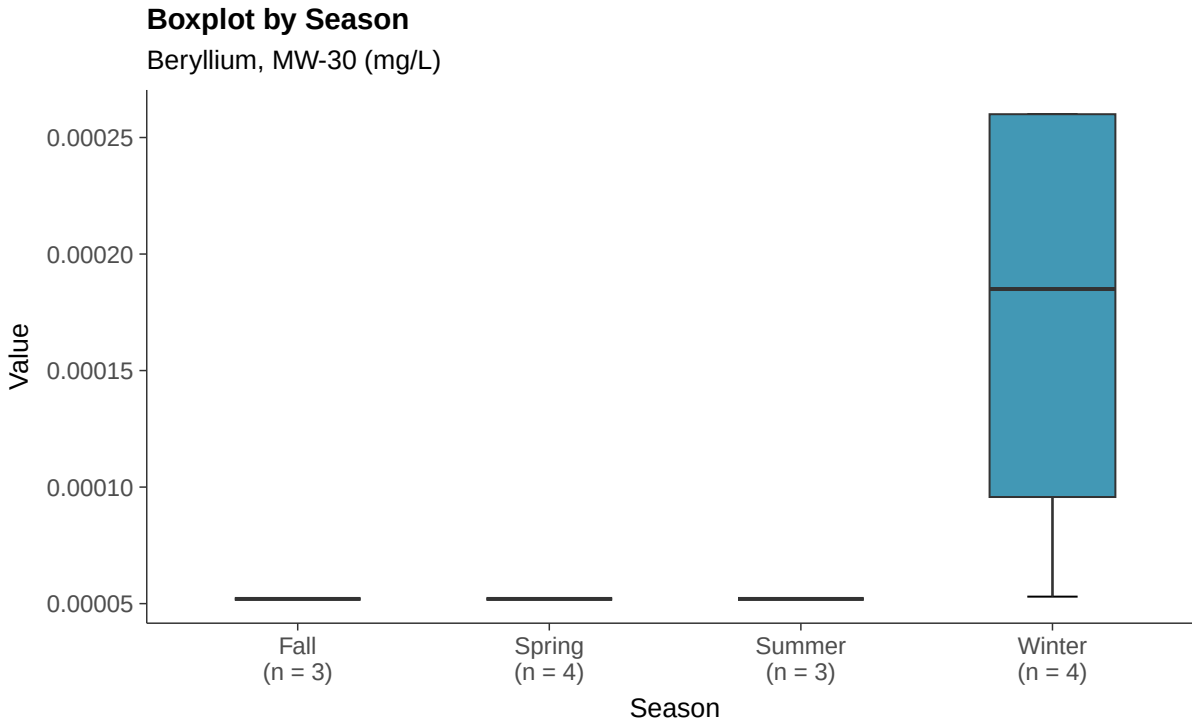
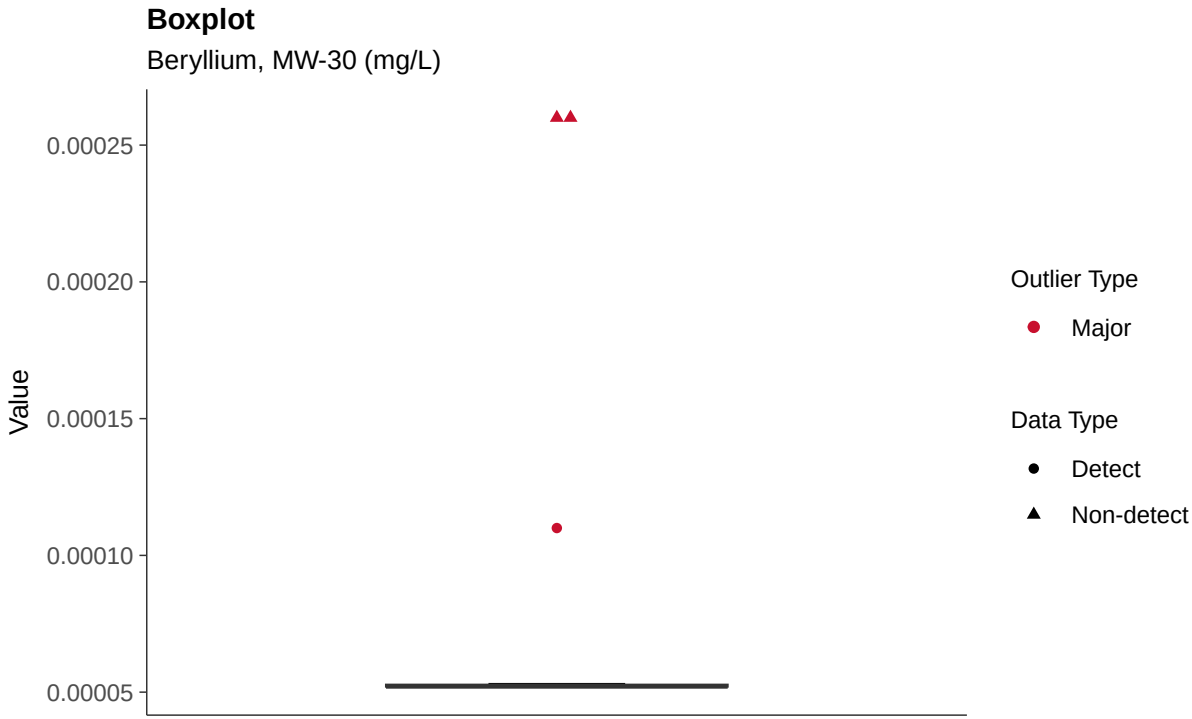


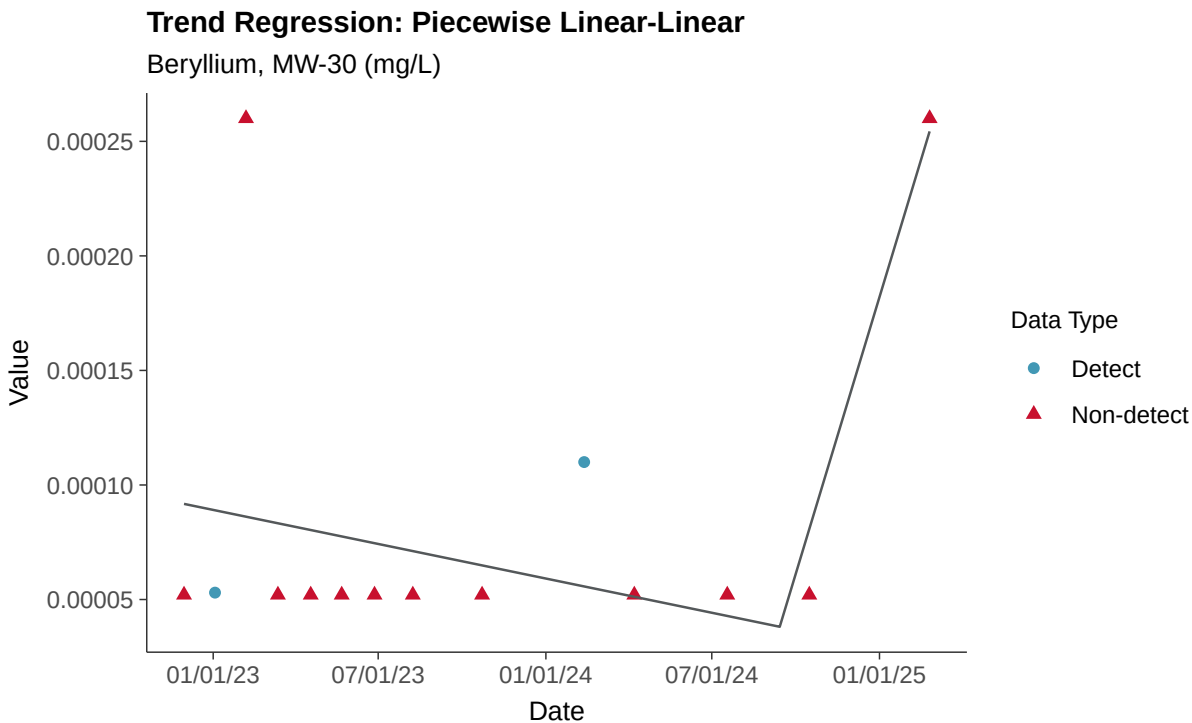
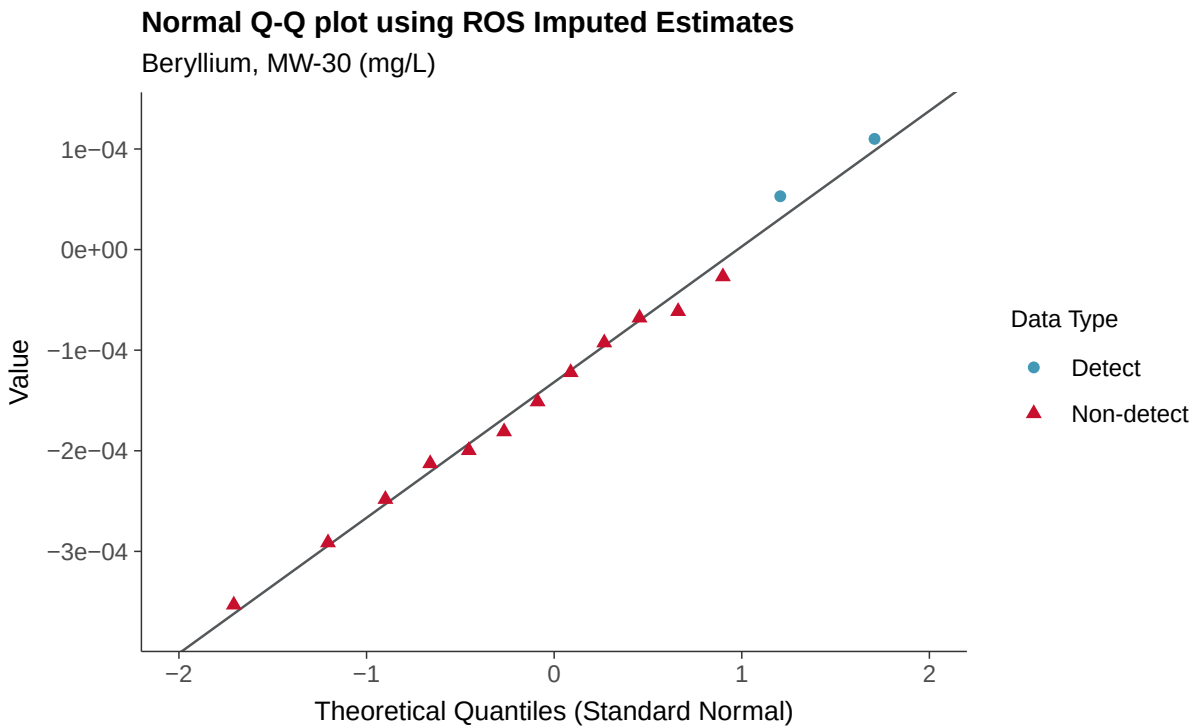


Appendix IV: Beryllium, MW-30

ID: 40_1_4_104



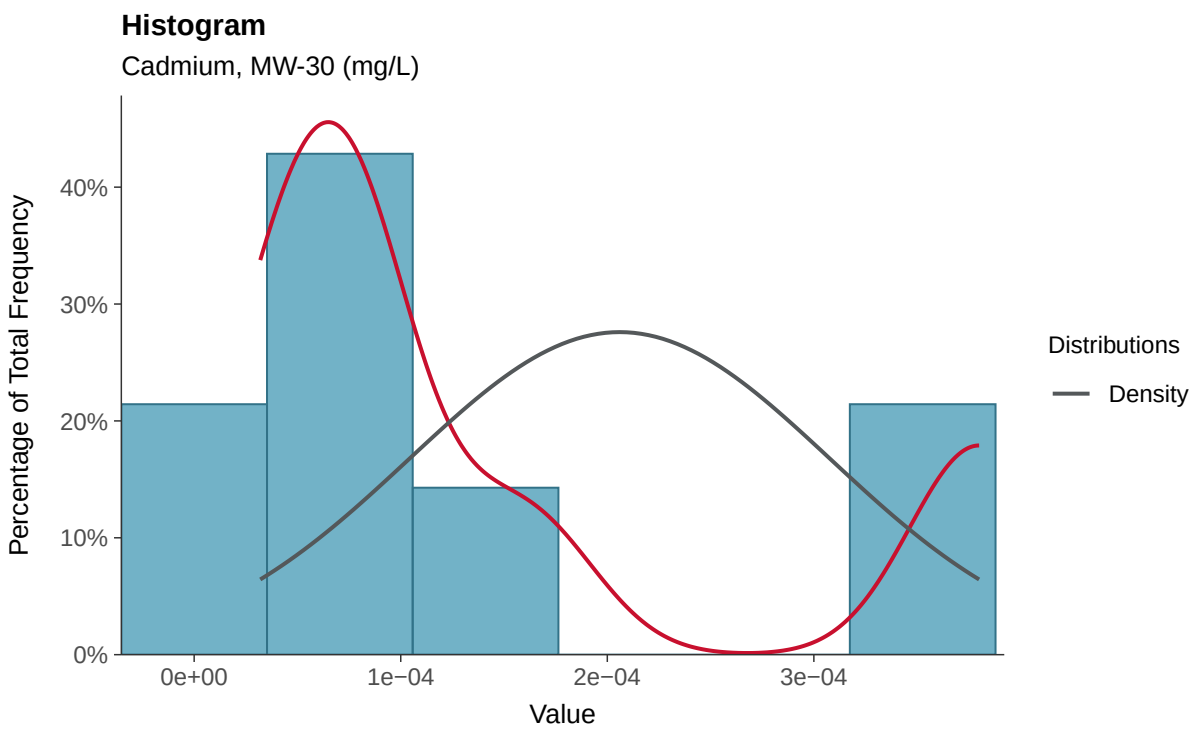
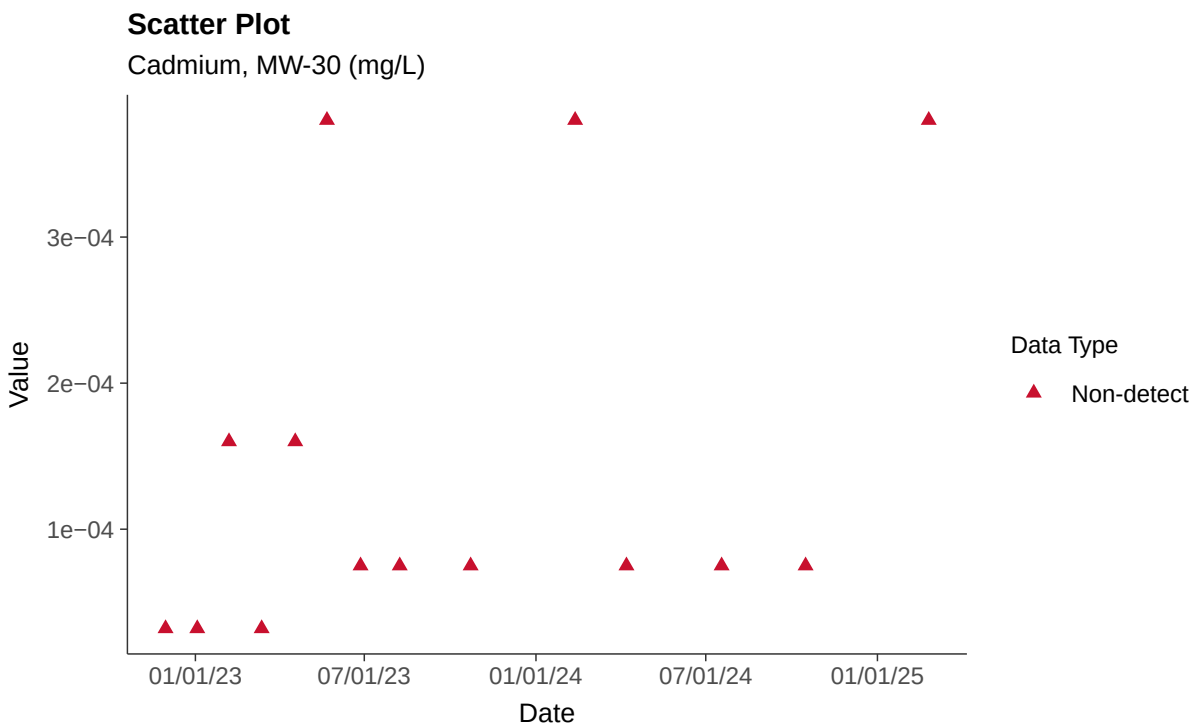


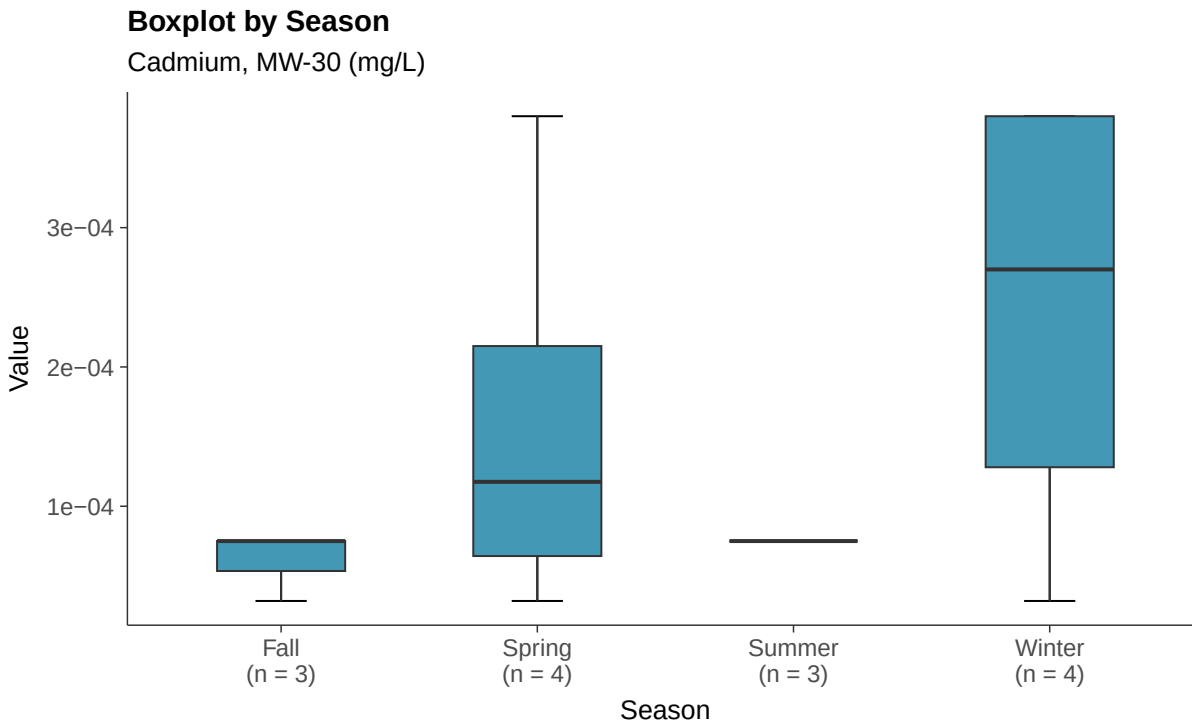
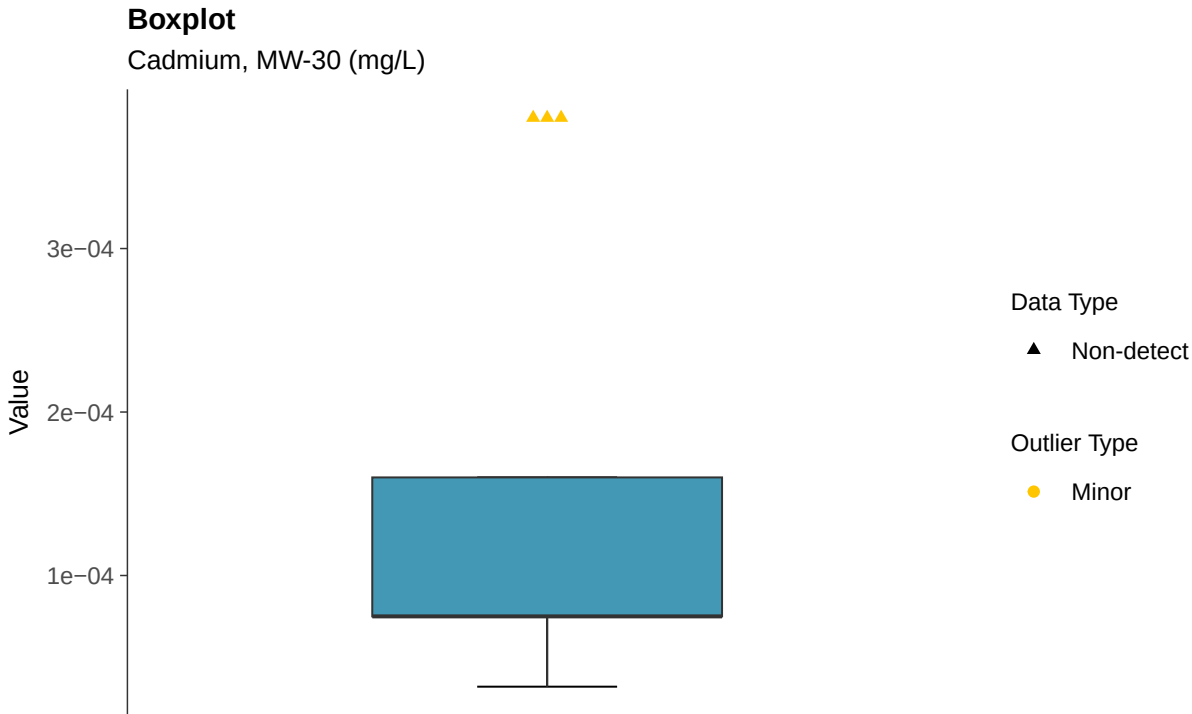


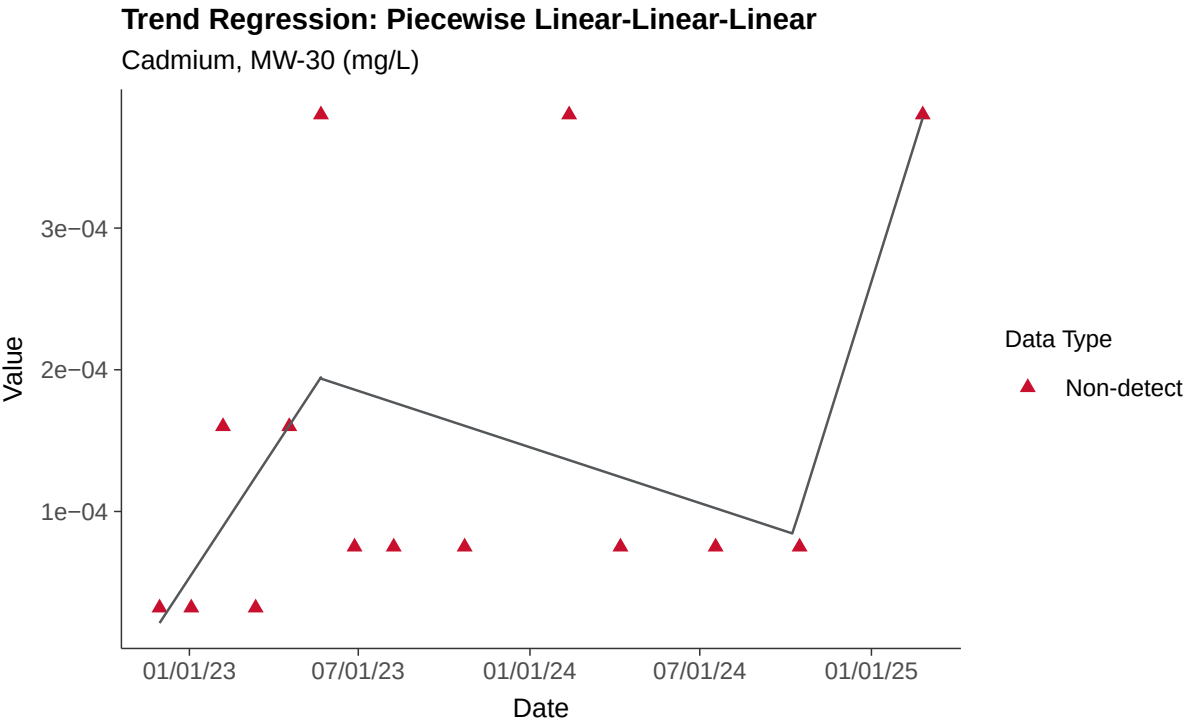


Appendix IV: Cadmium, MW-30

ID: 40_1_4_106



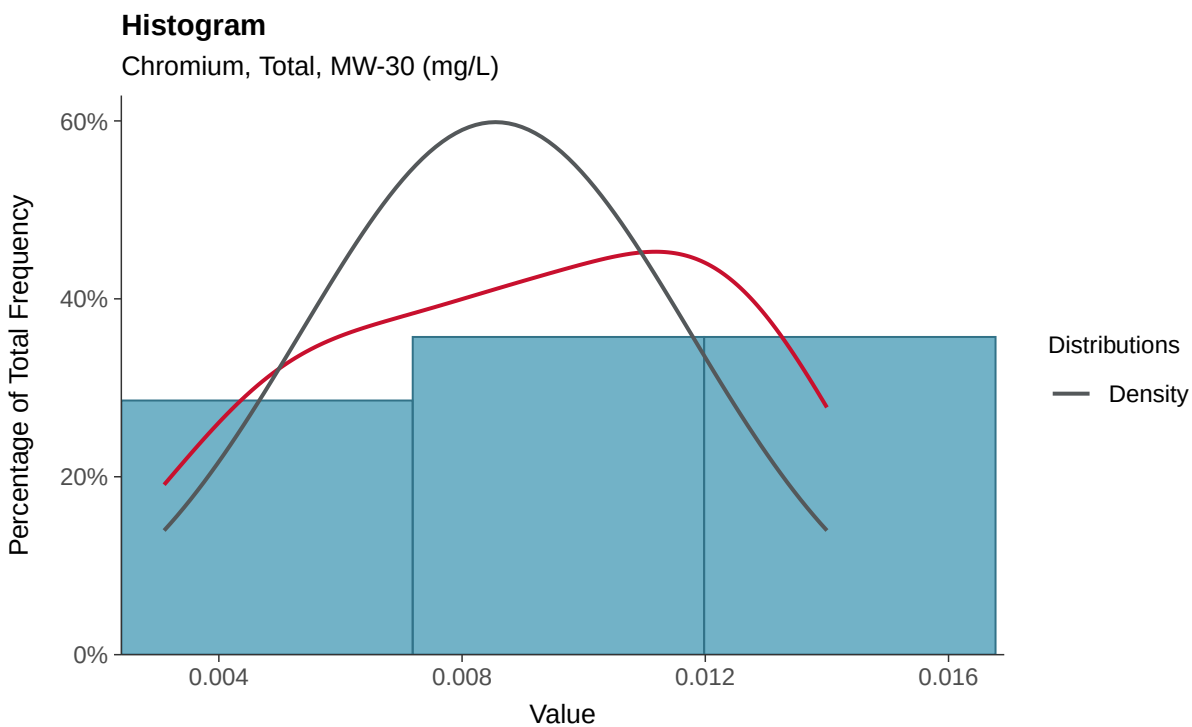
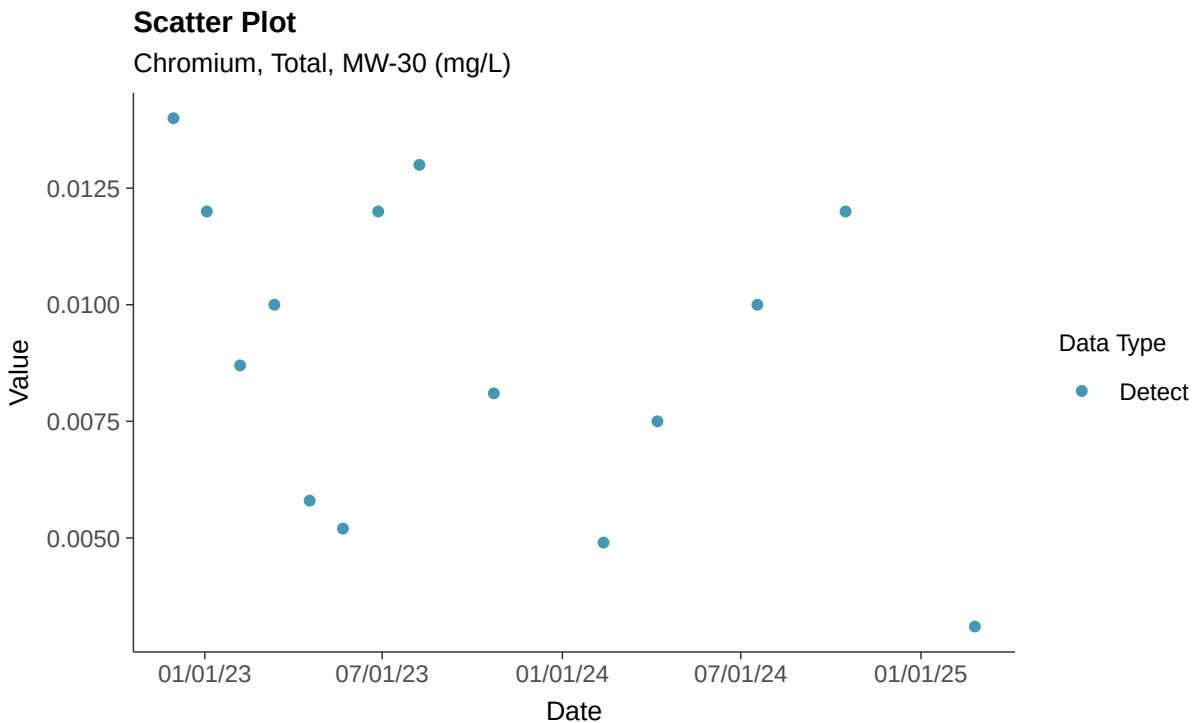


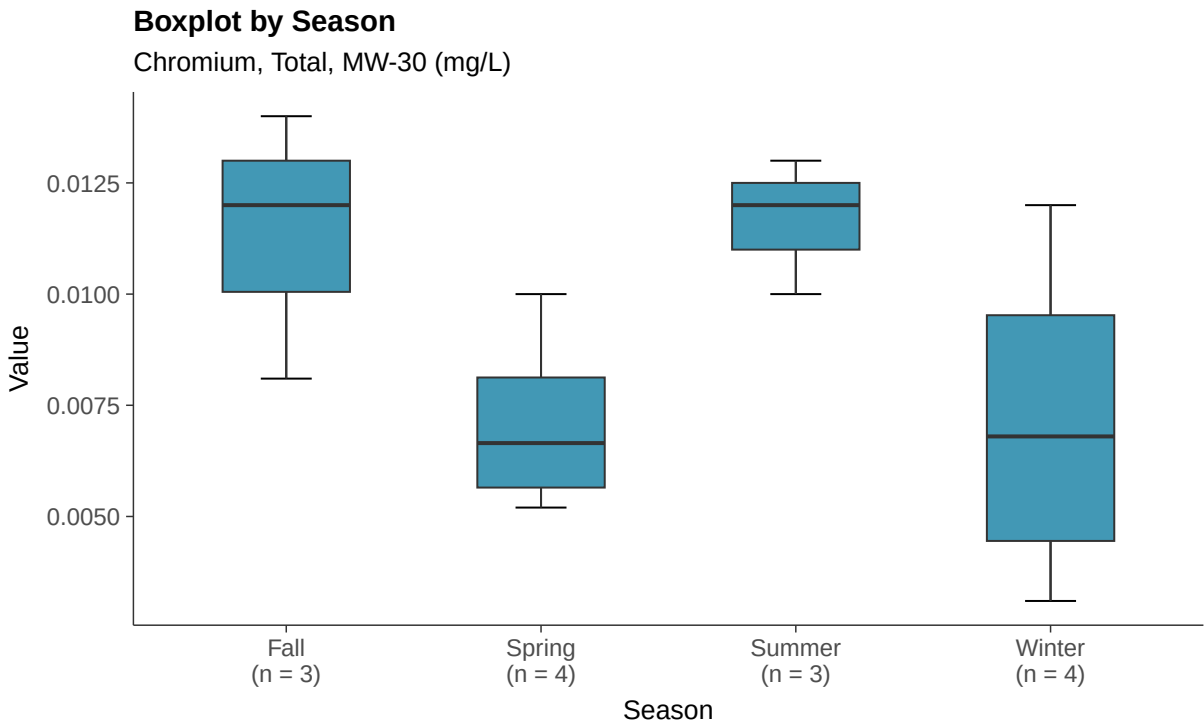
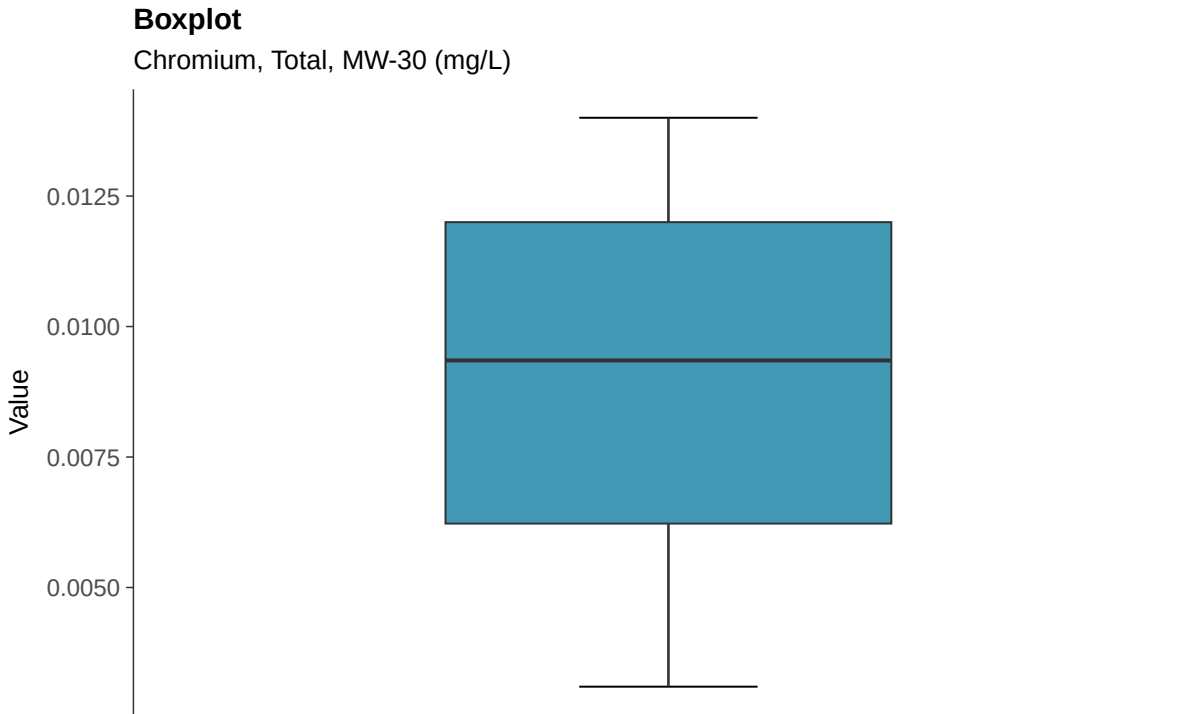


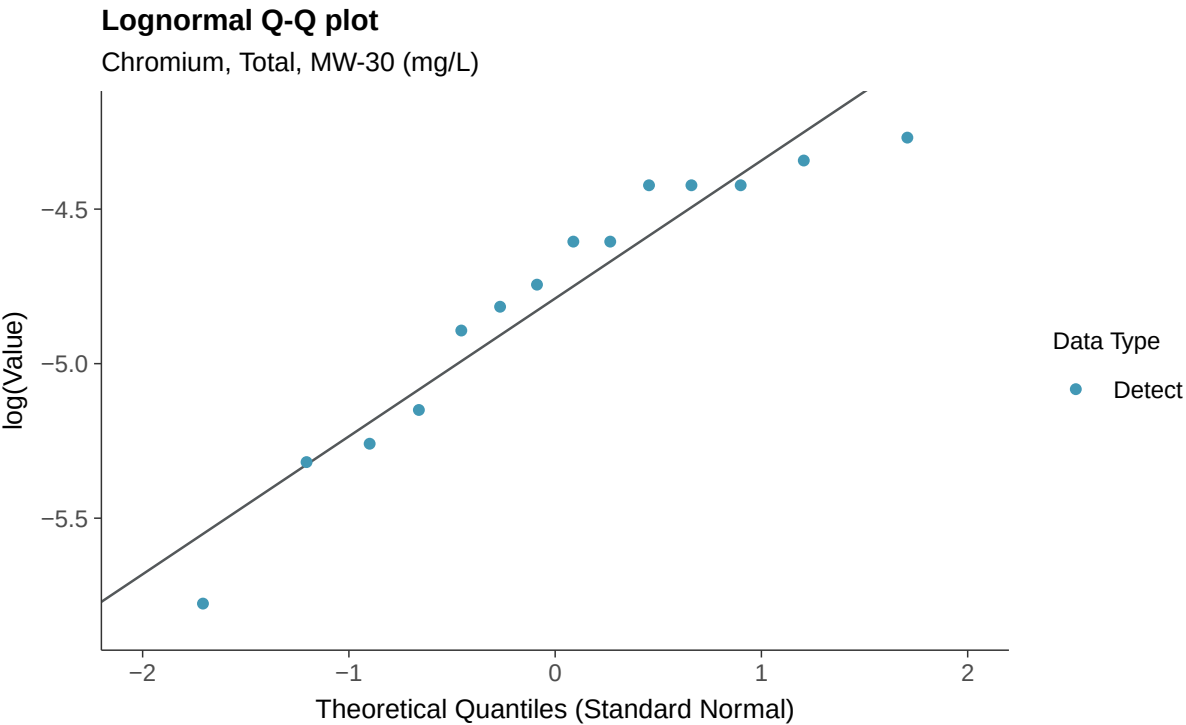
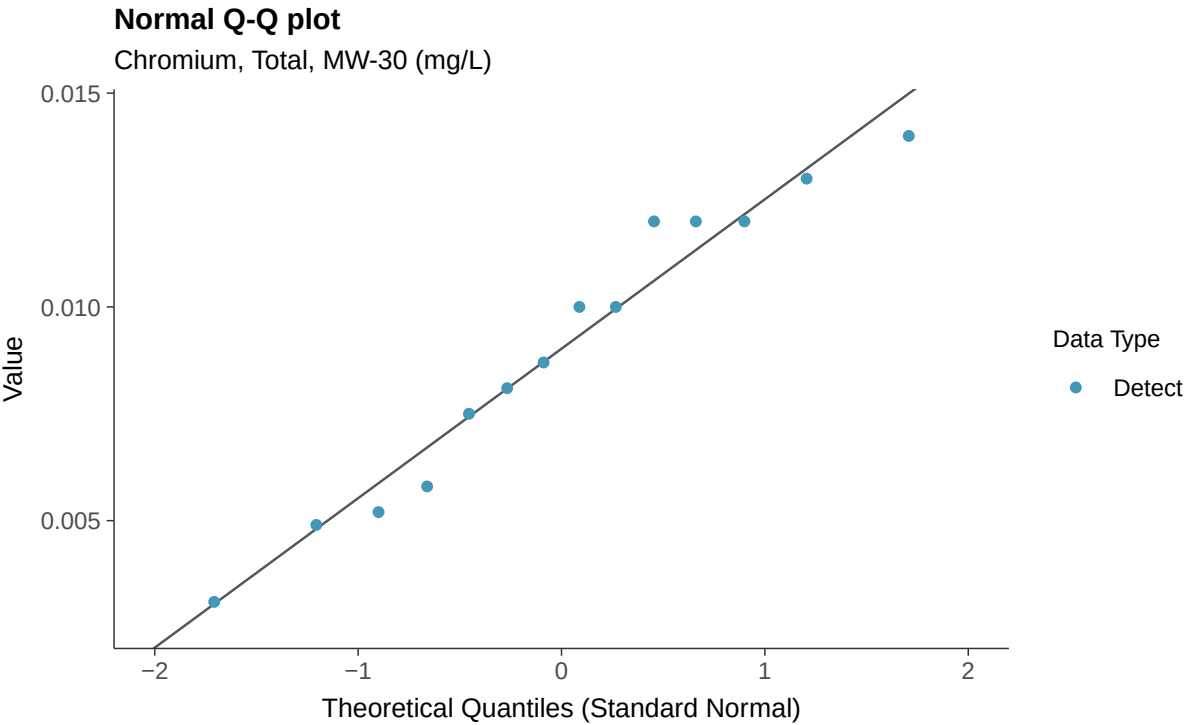


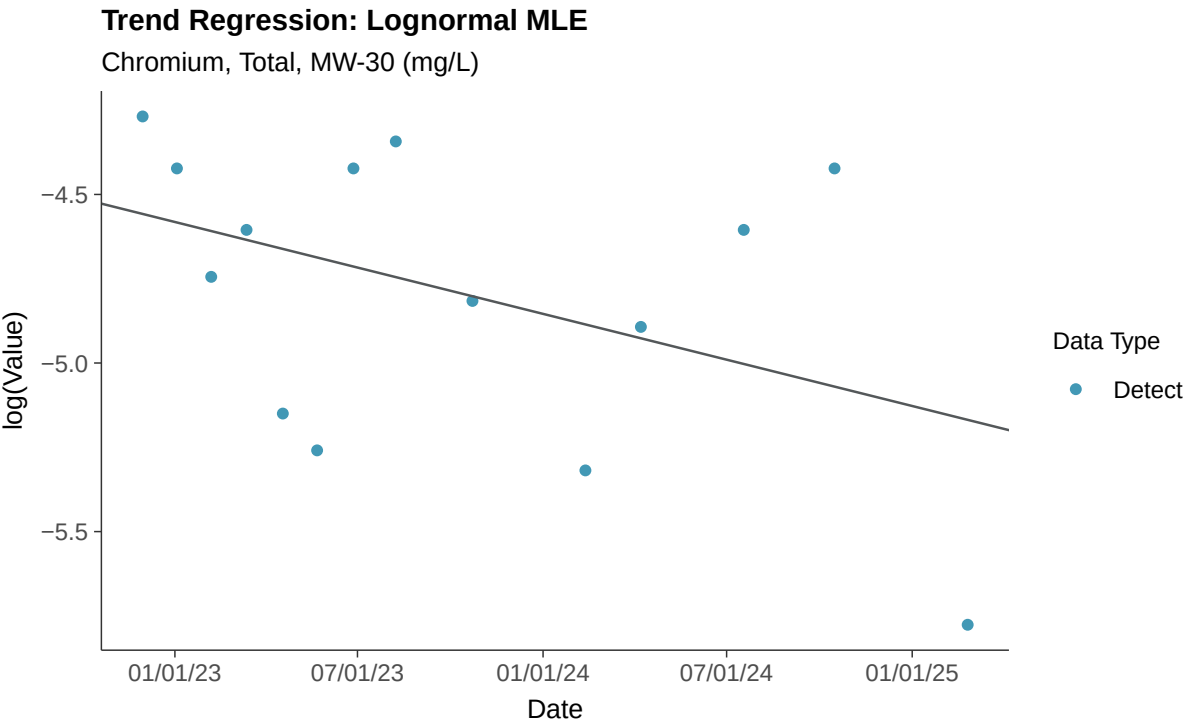
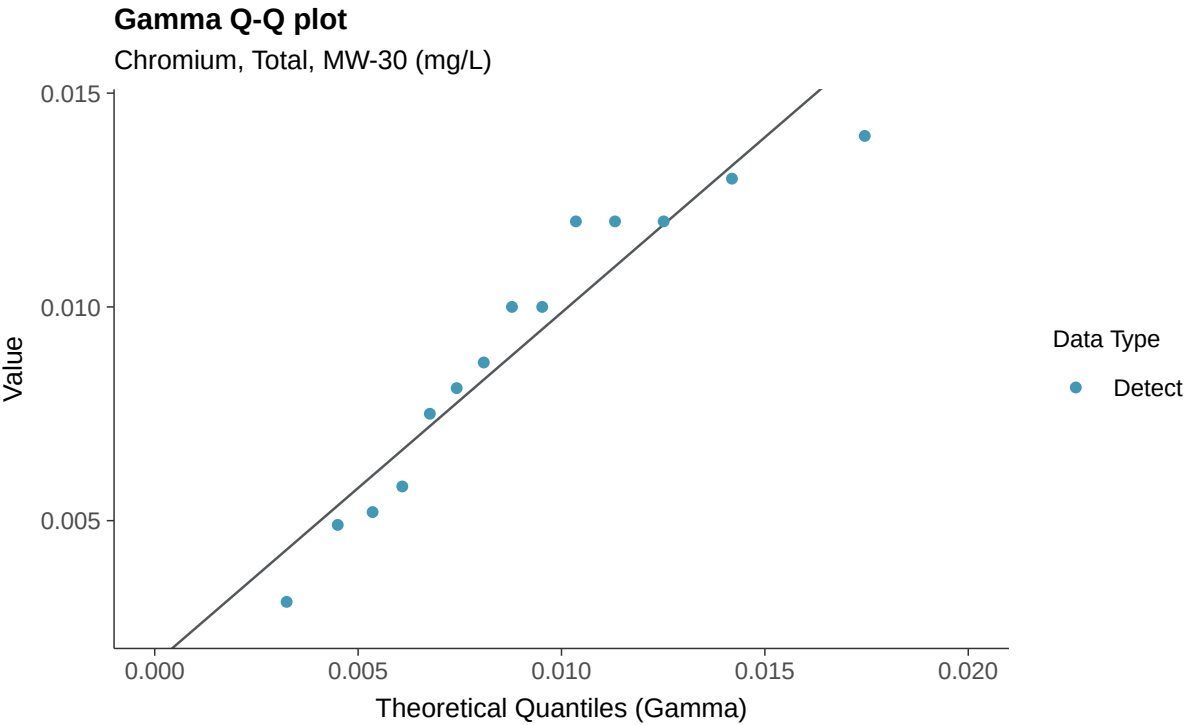
Appendix IV: Chromium, Total, MW-30

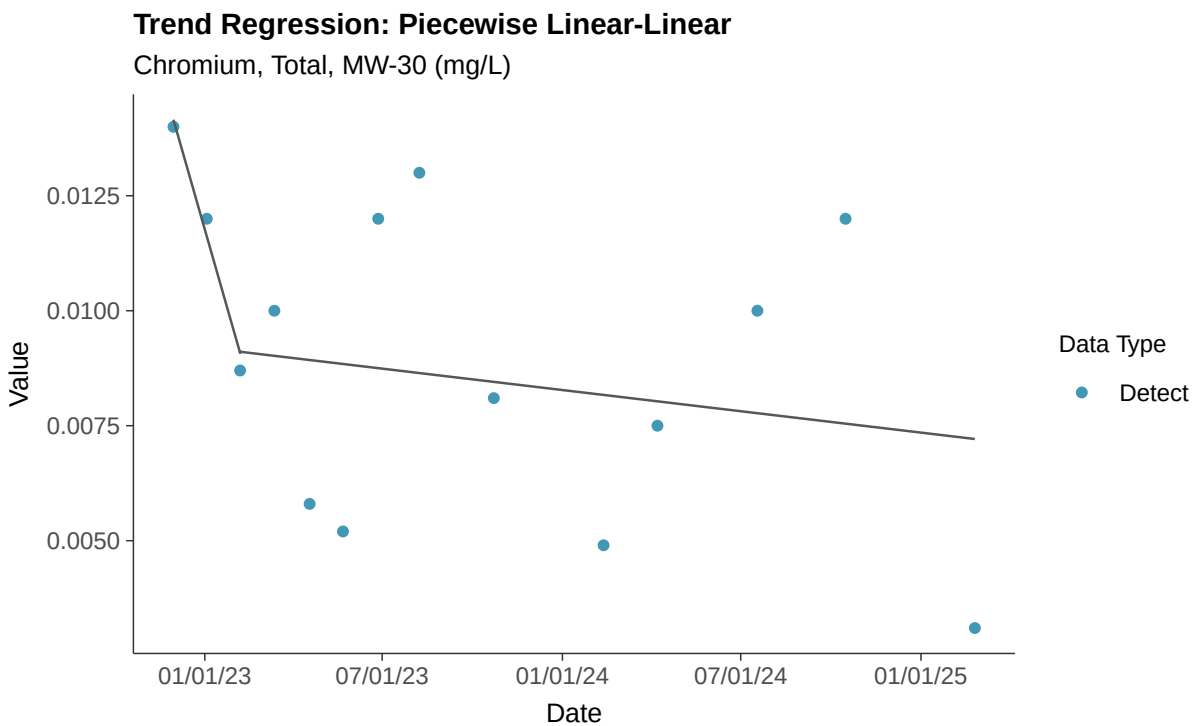
ID: 40_1_4_109







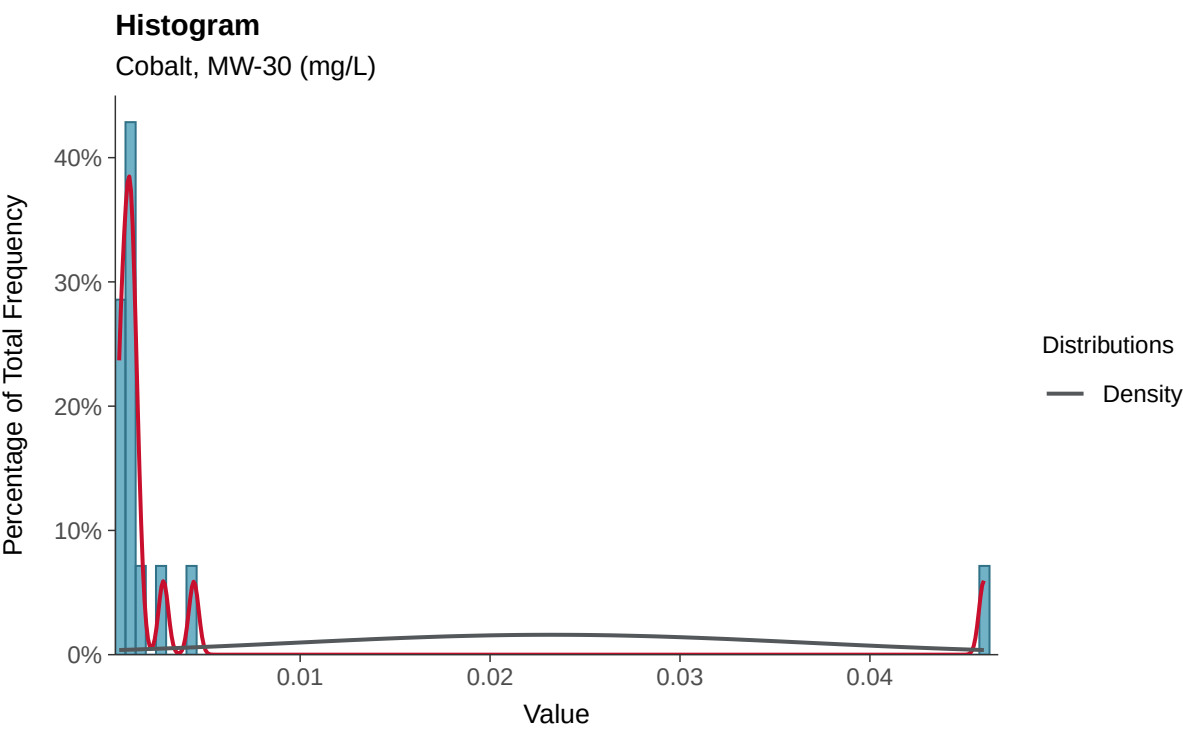
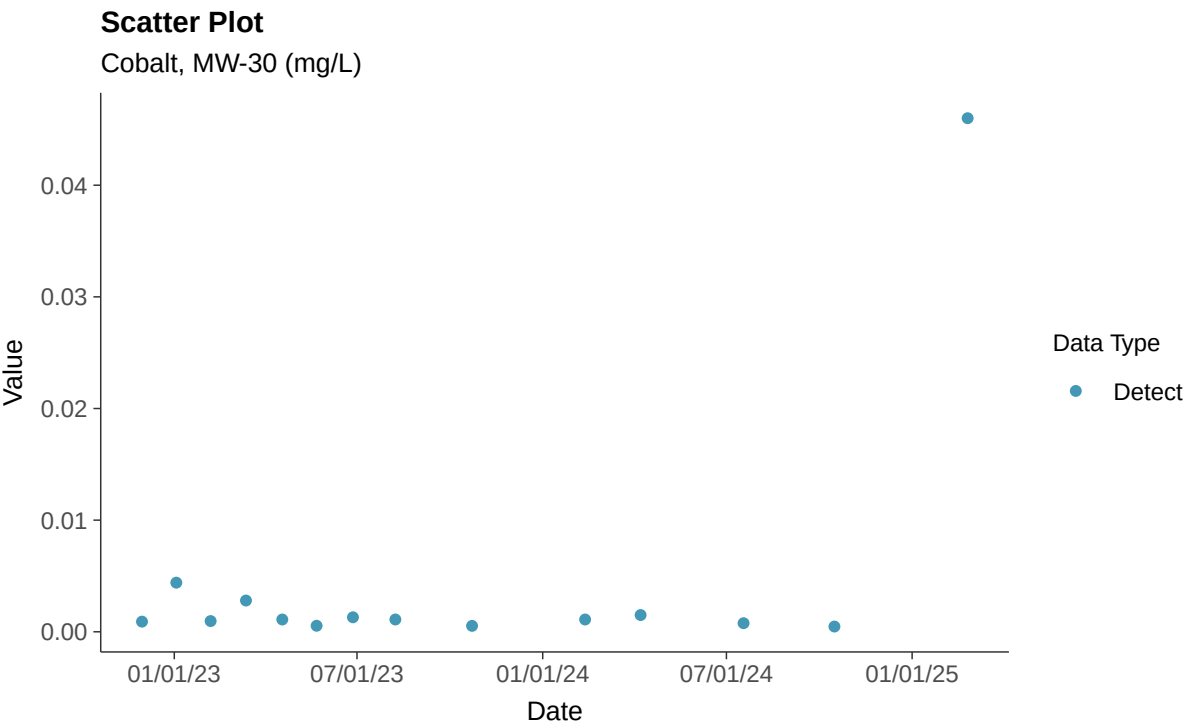


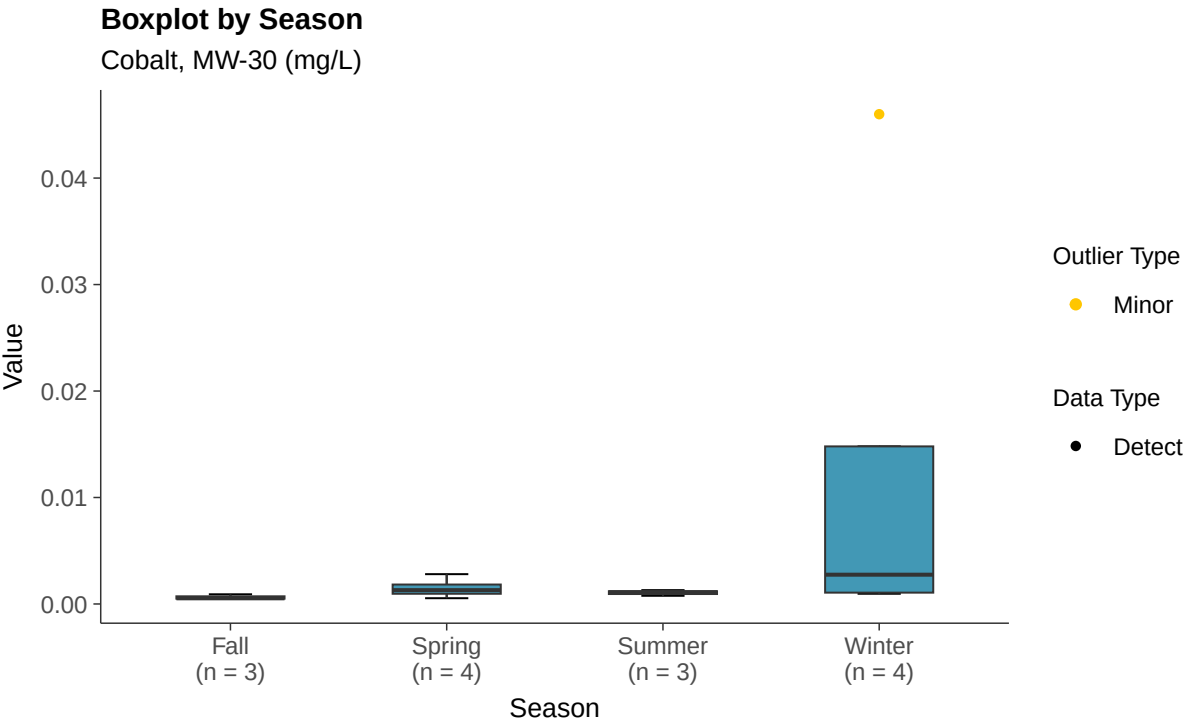
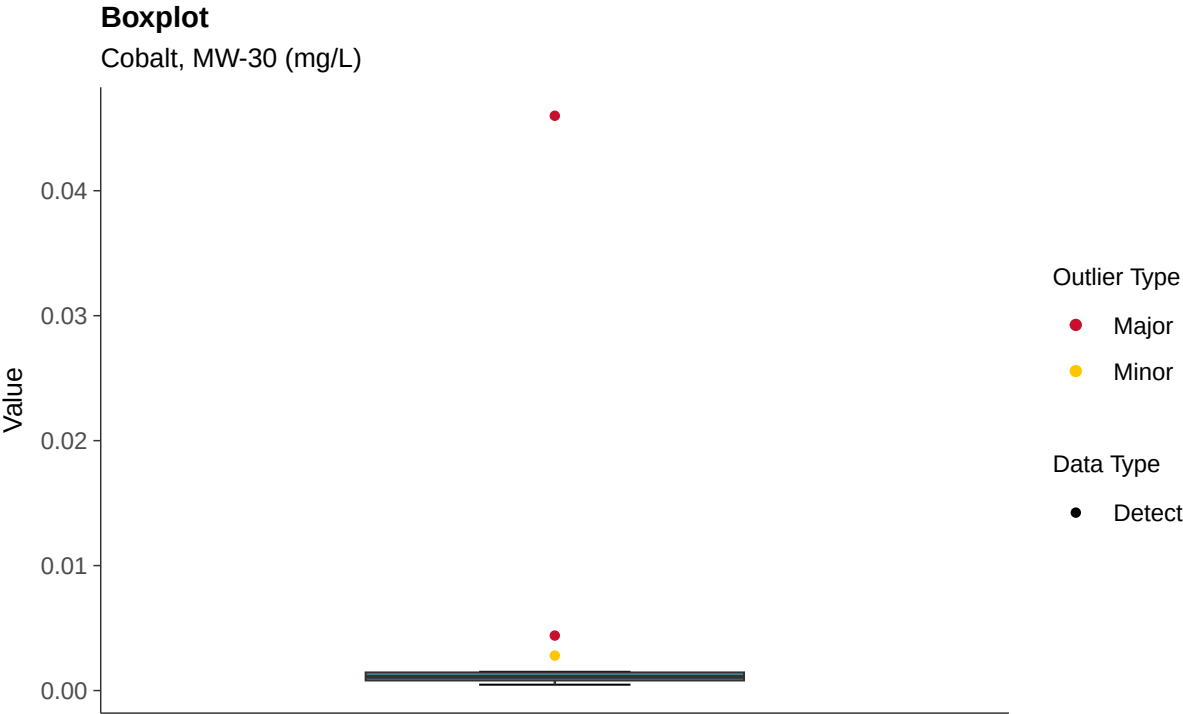


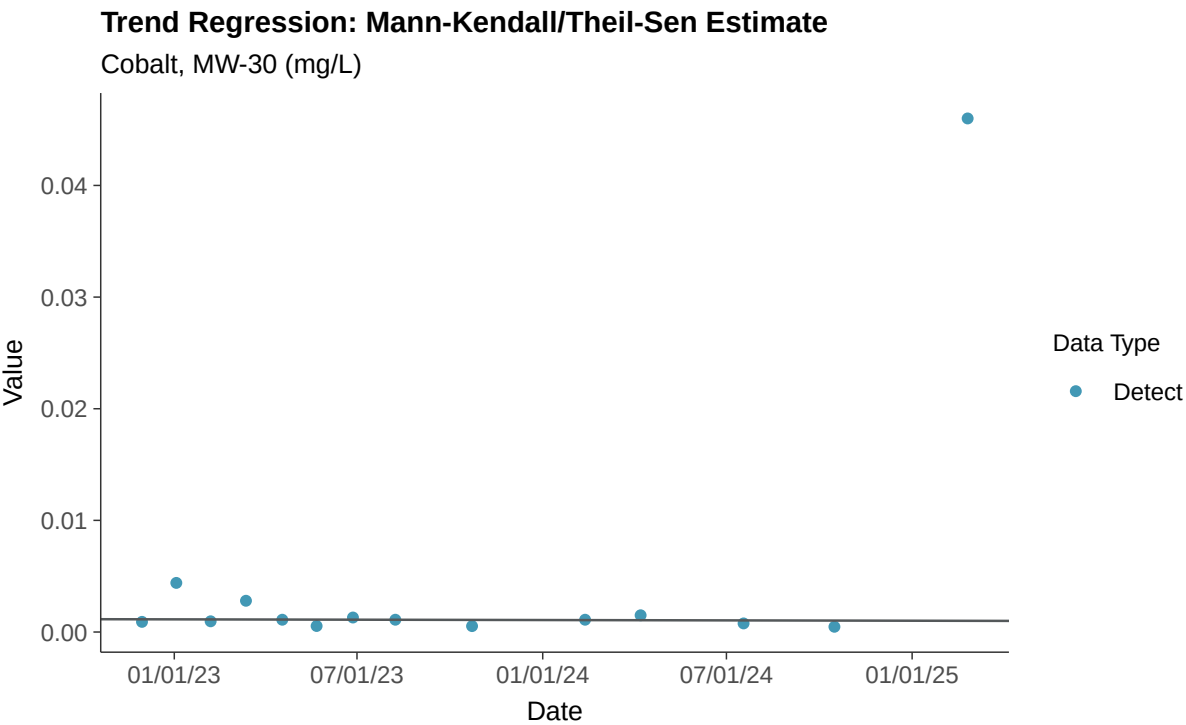
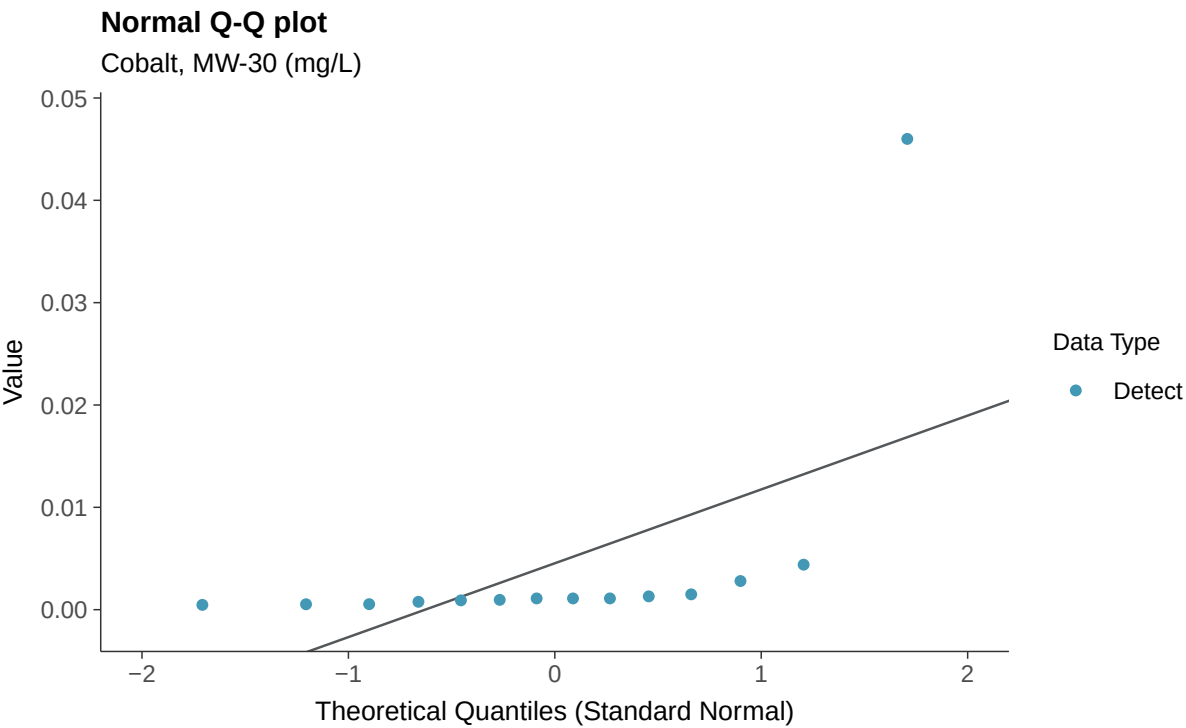


Appendix IV: Cobalt, MW-30

ID: 40_1_4_110



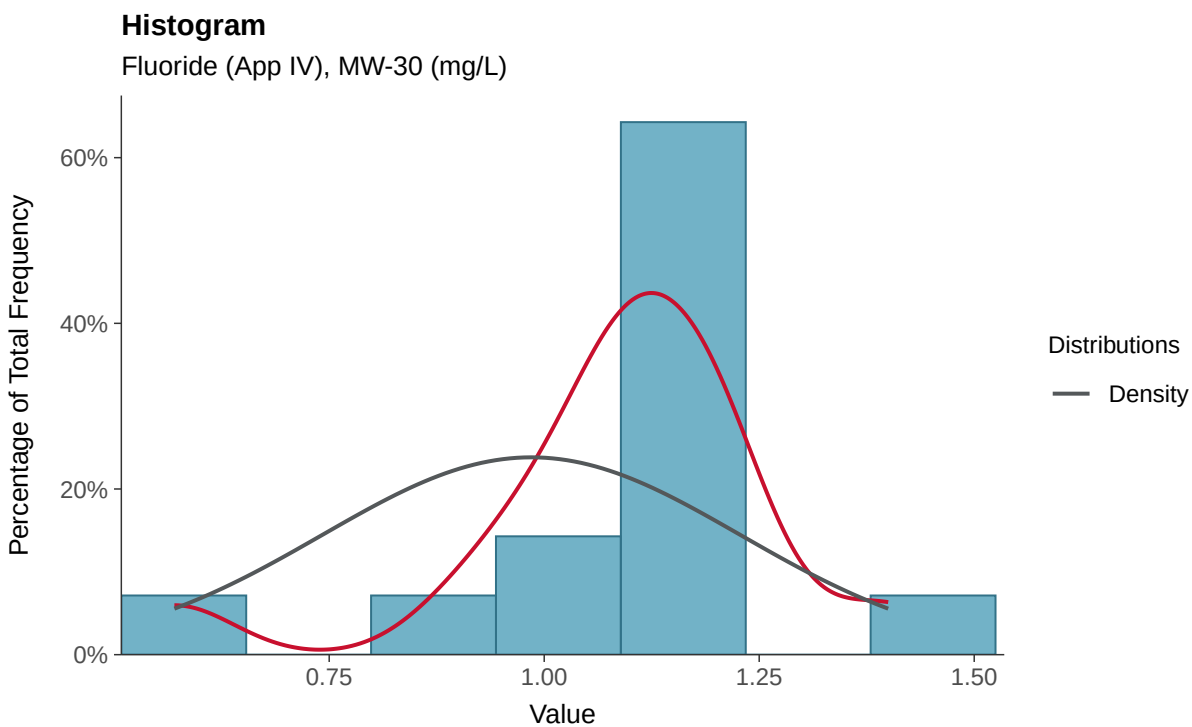
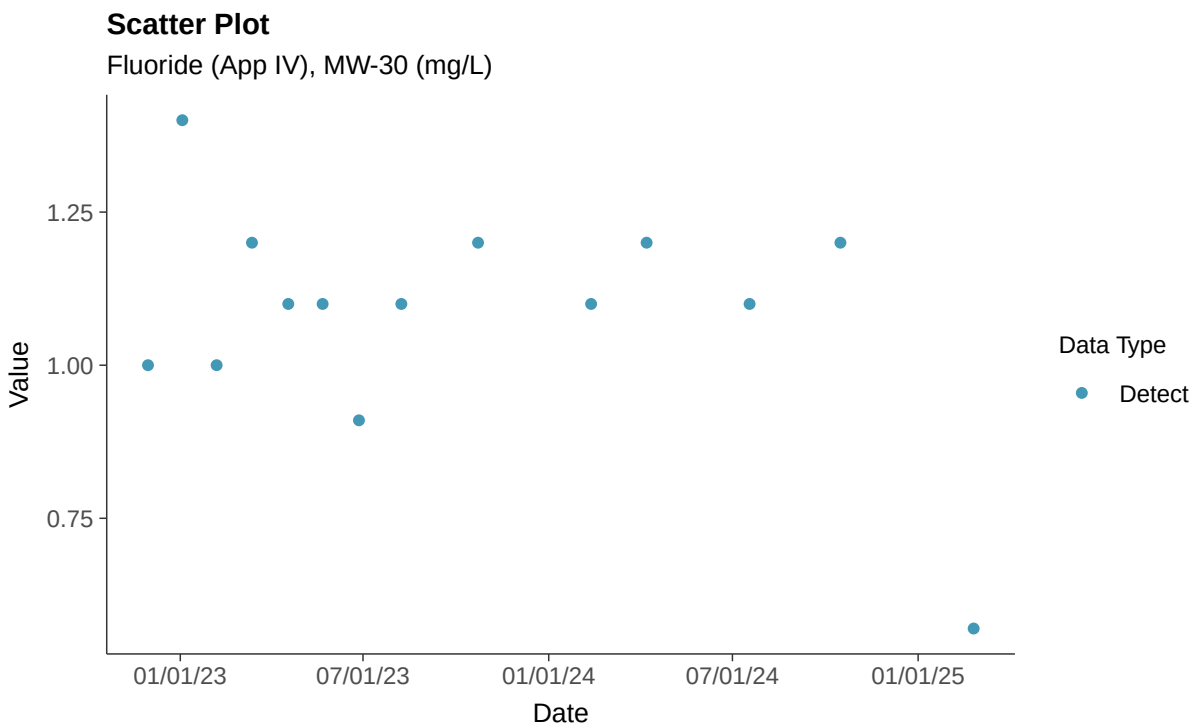


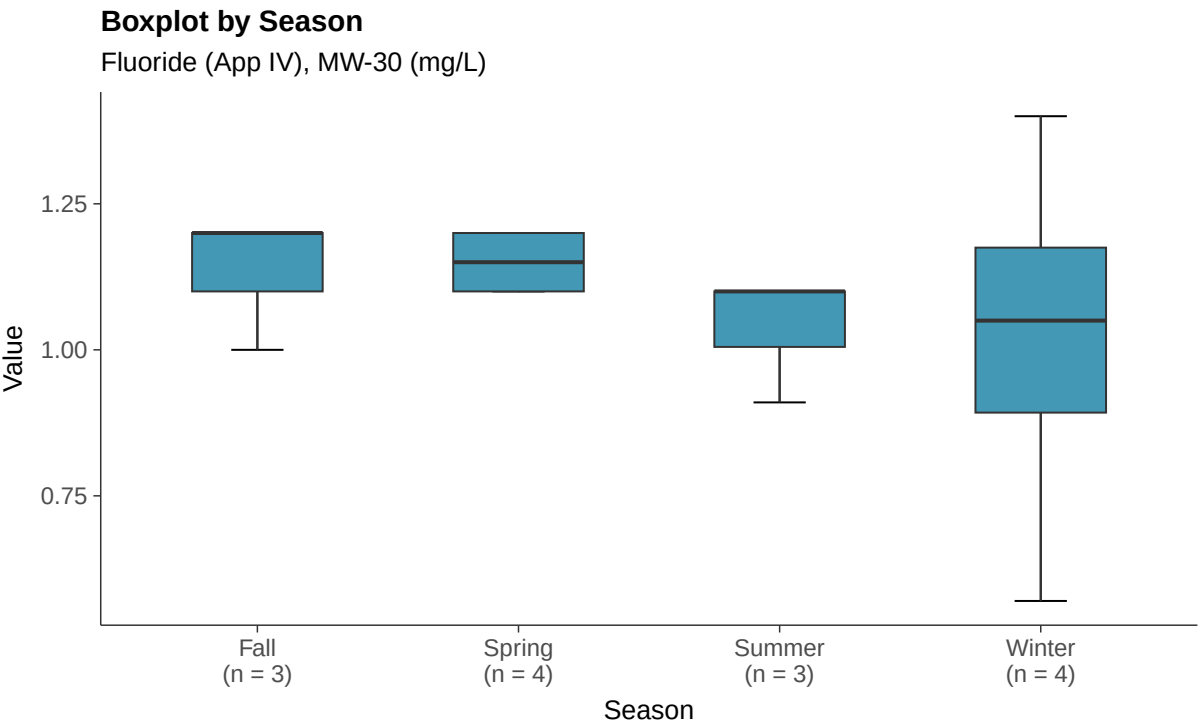
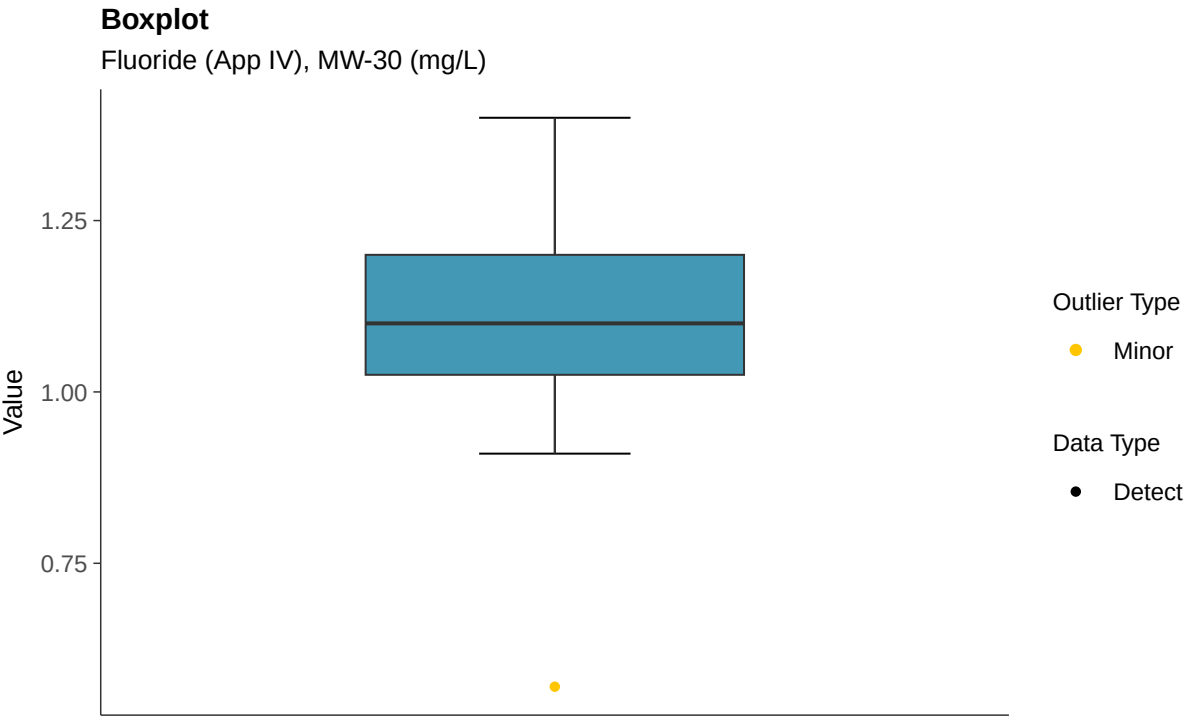


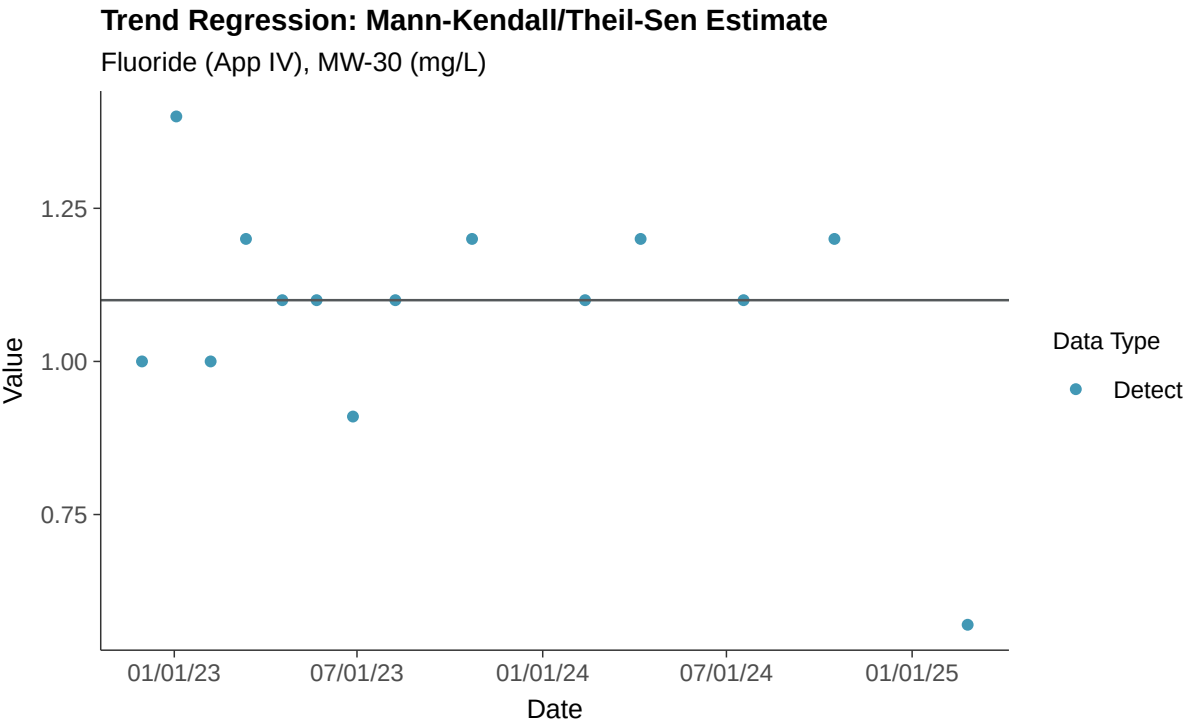
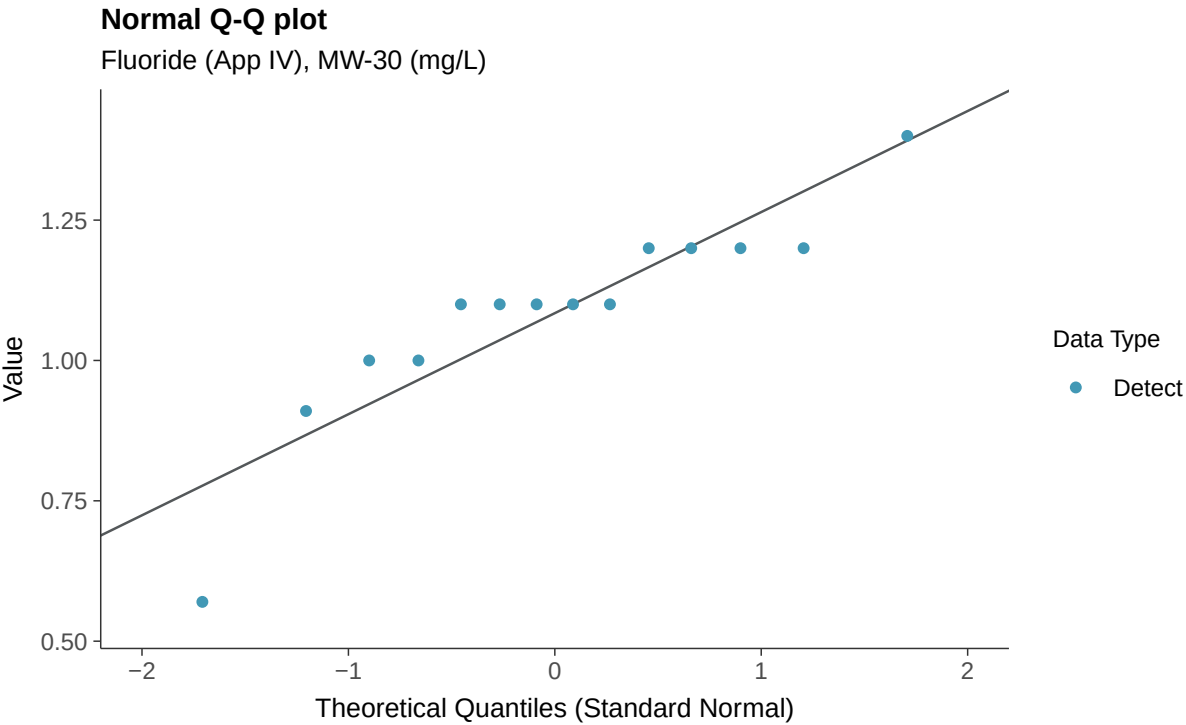


Appendix IV: Fluoride (App IV), MW-30

ID: 40_1_4_113



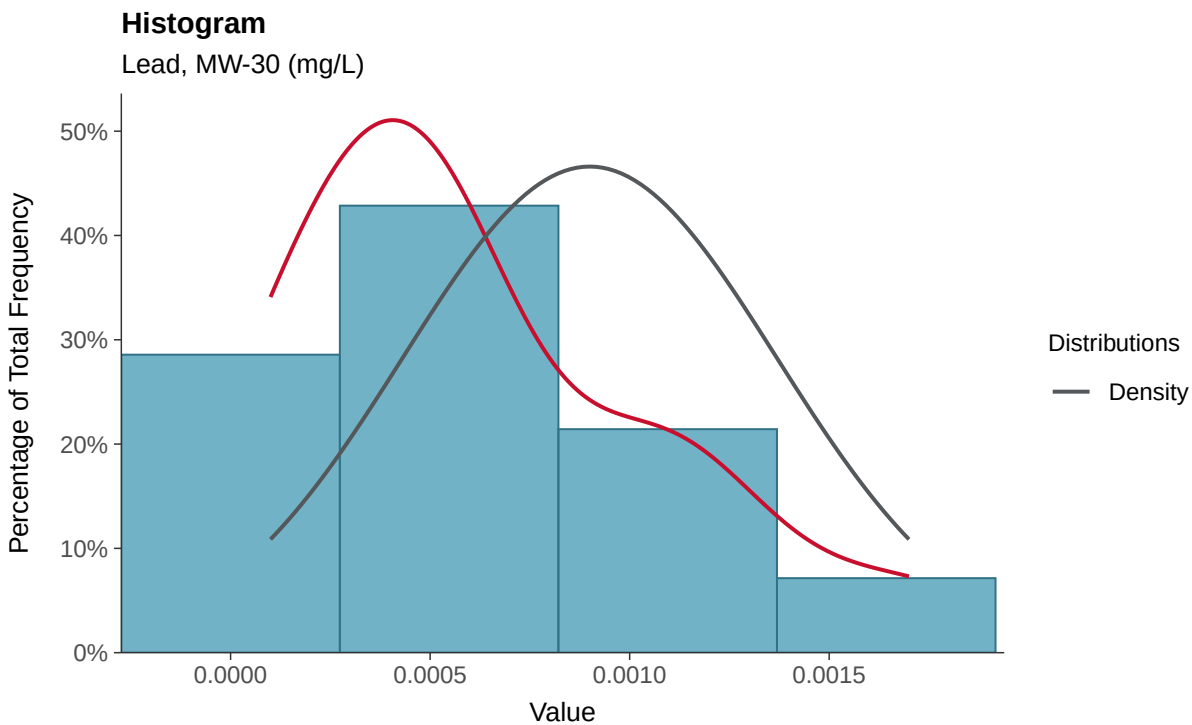
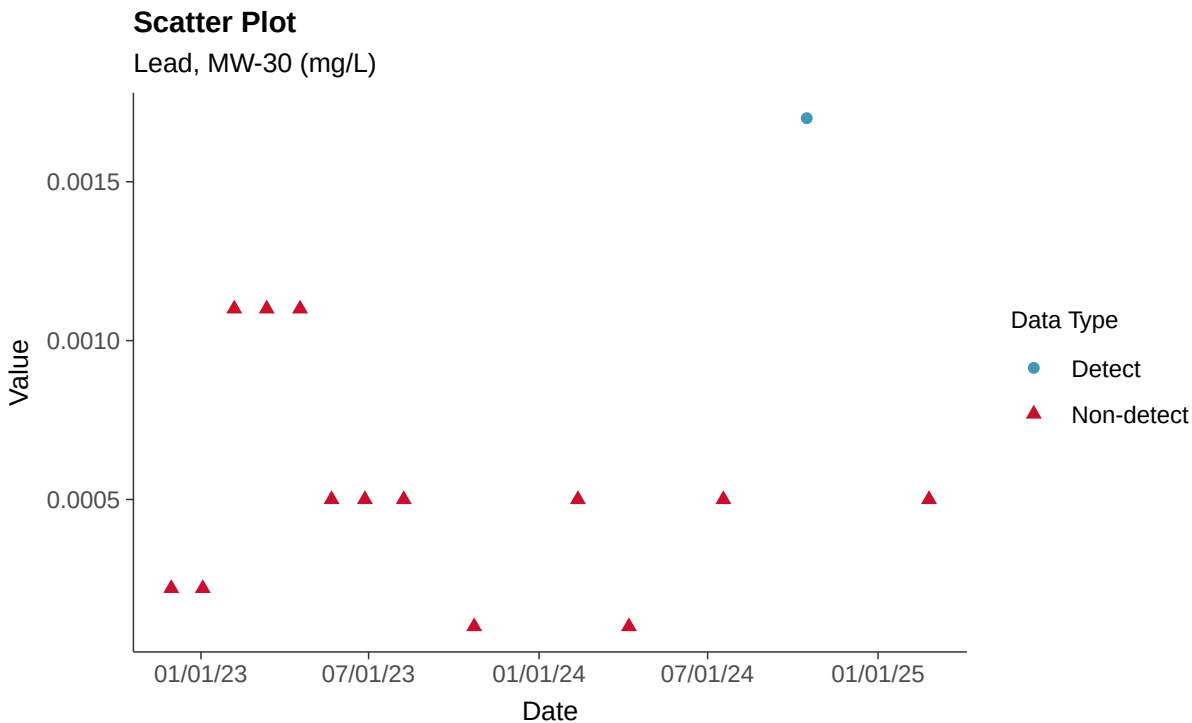


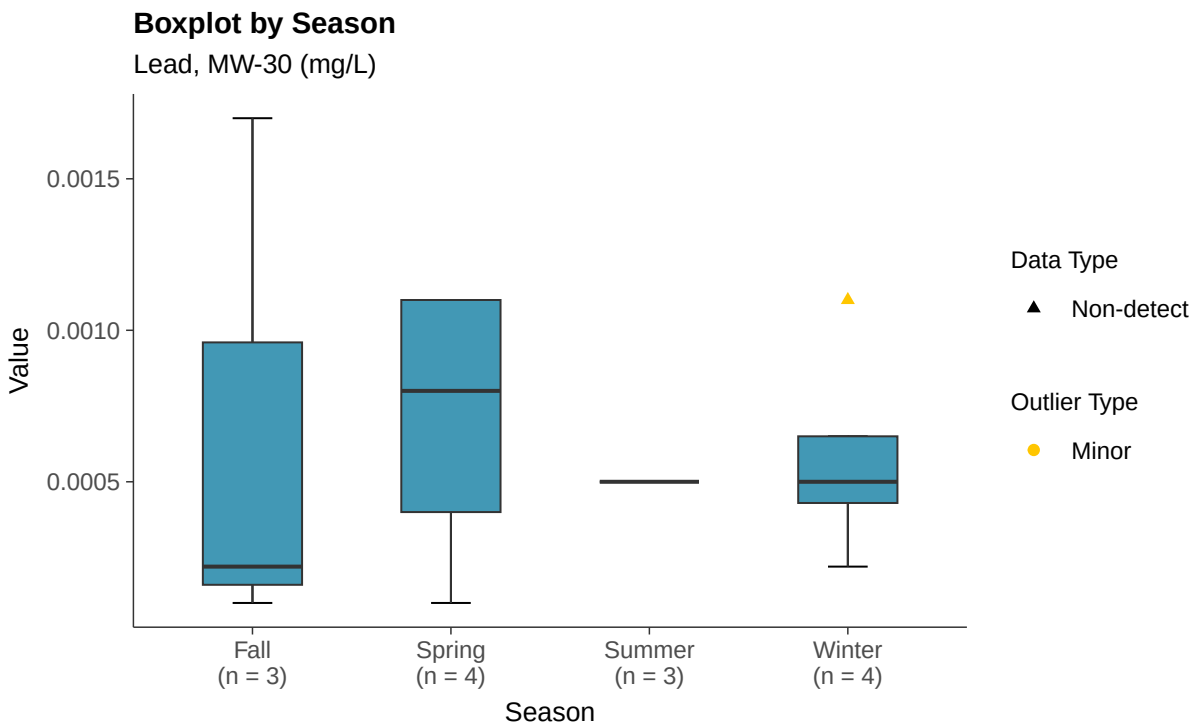
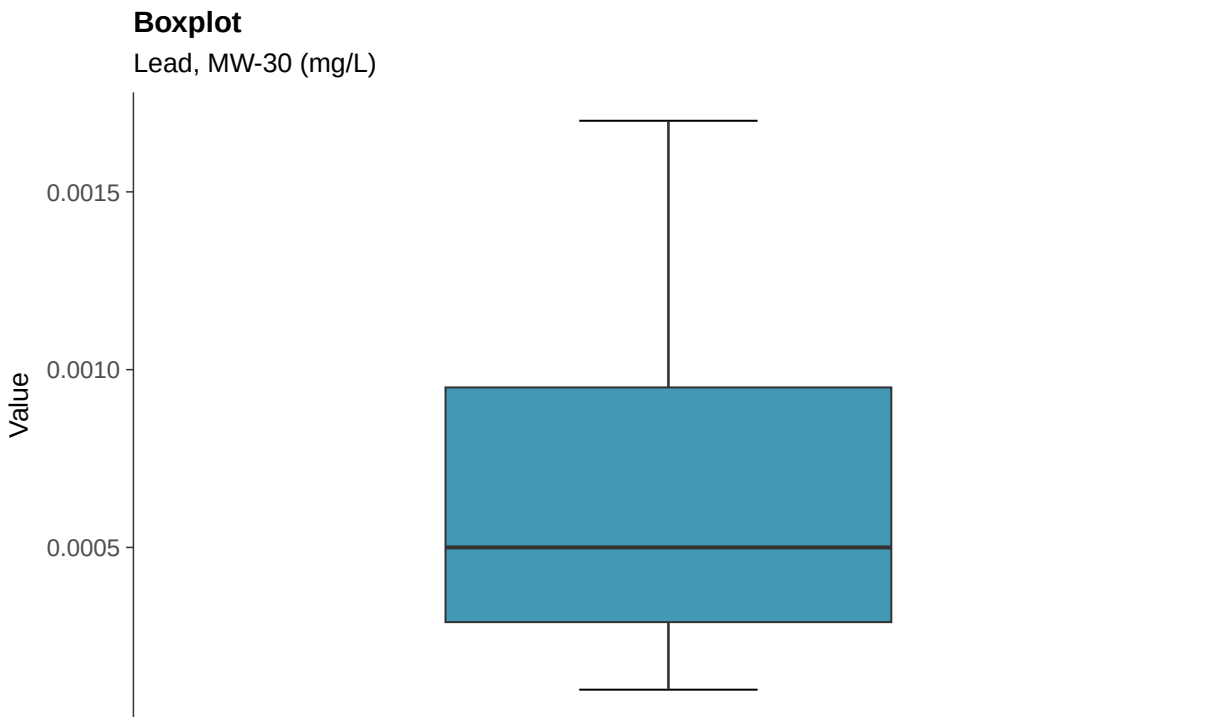


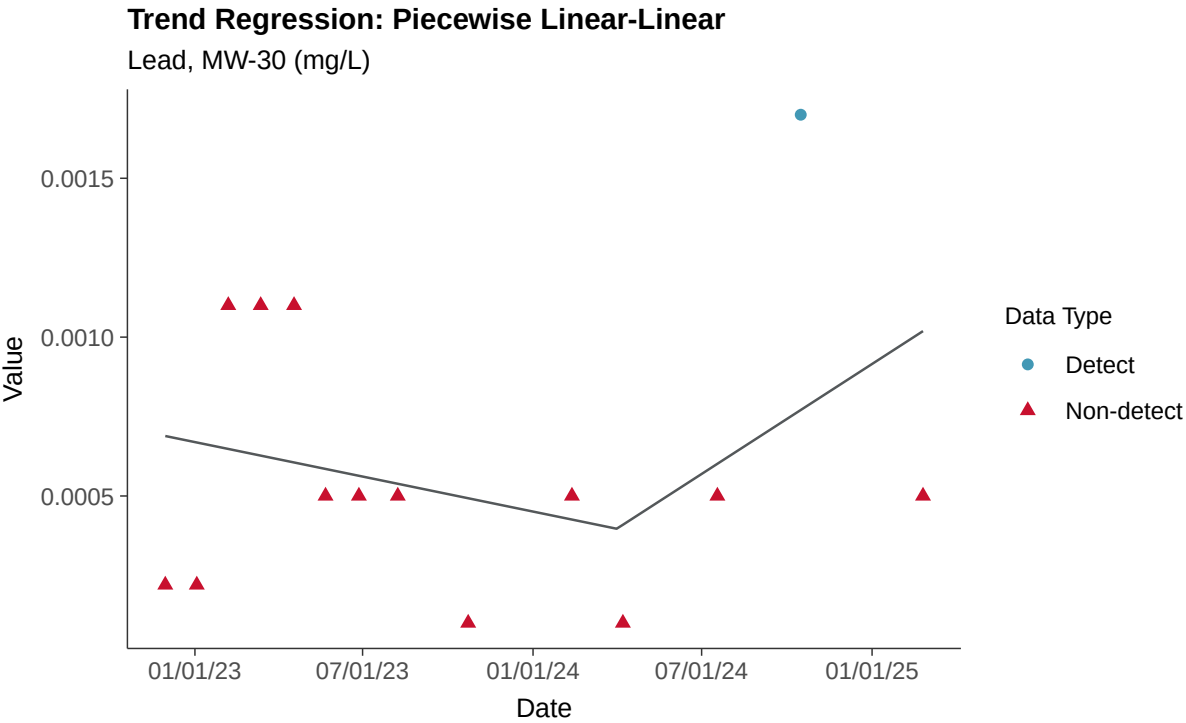


Appendix IV: Lead, MW-30

ID: 40_1_4_115



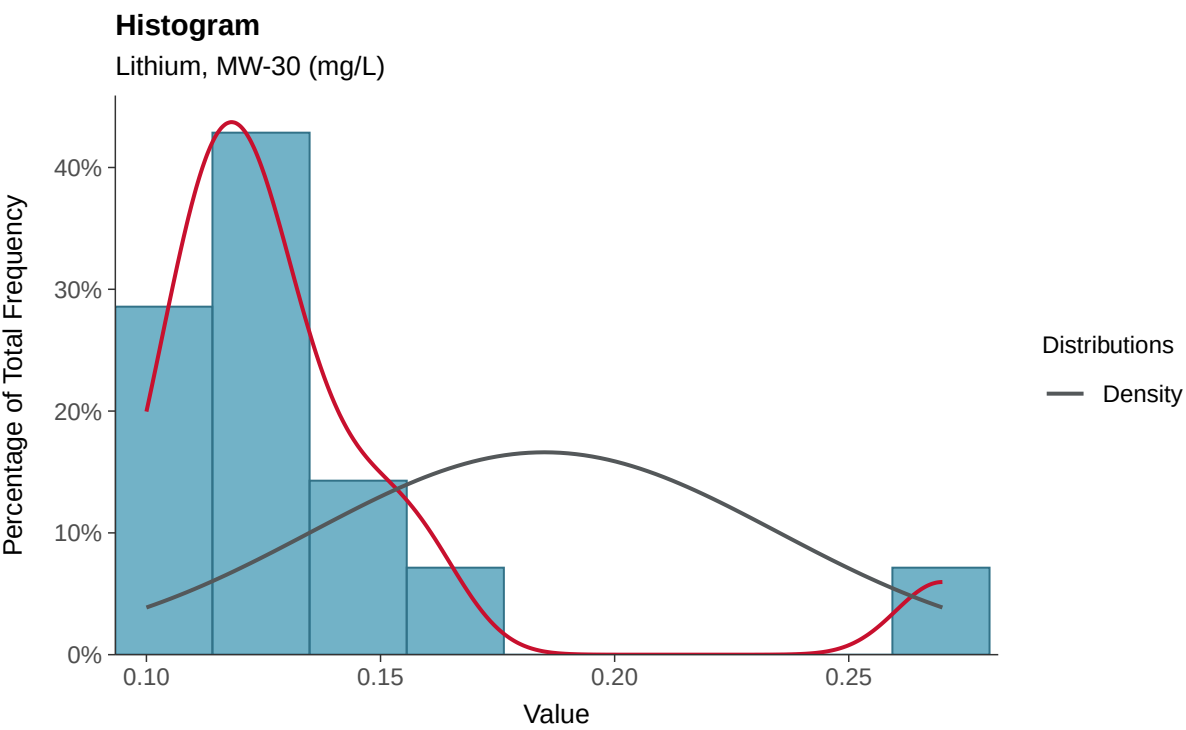
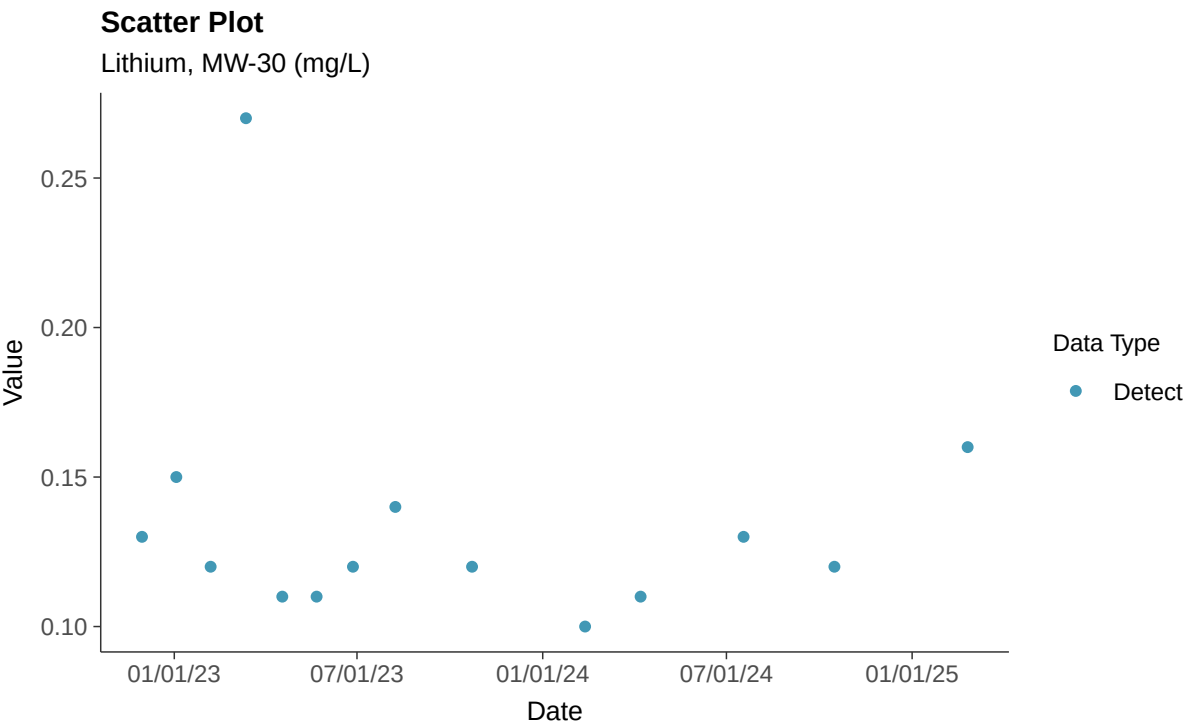


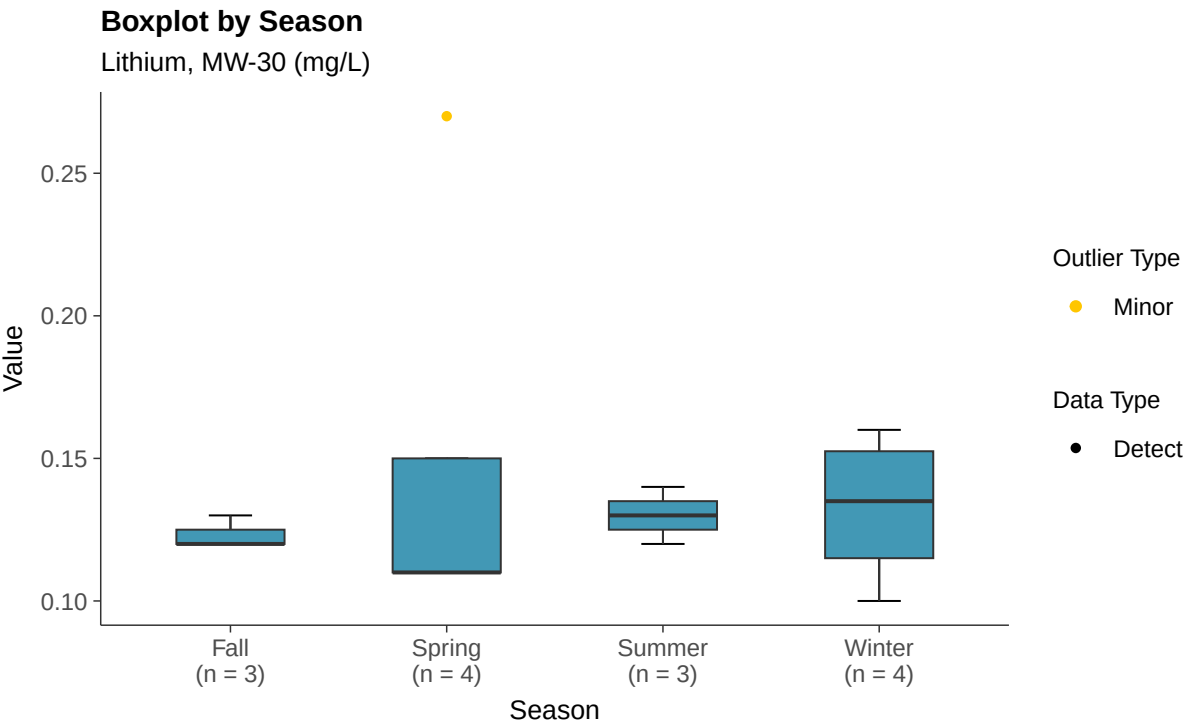
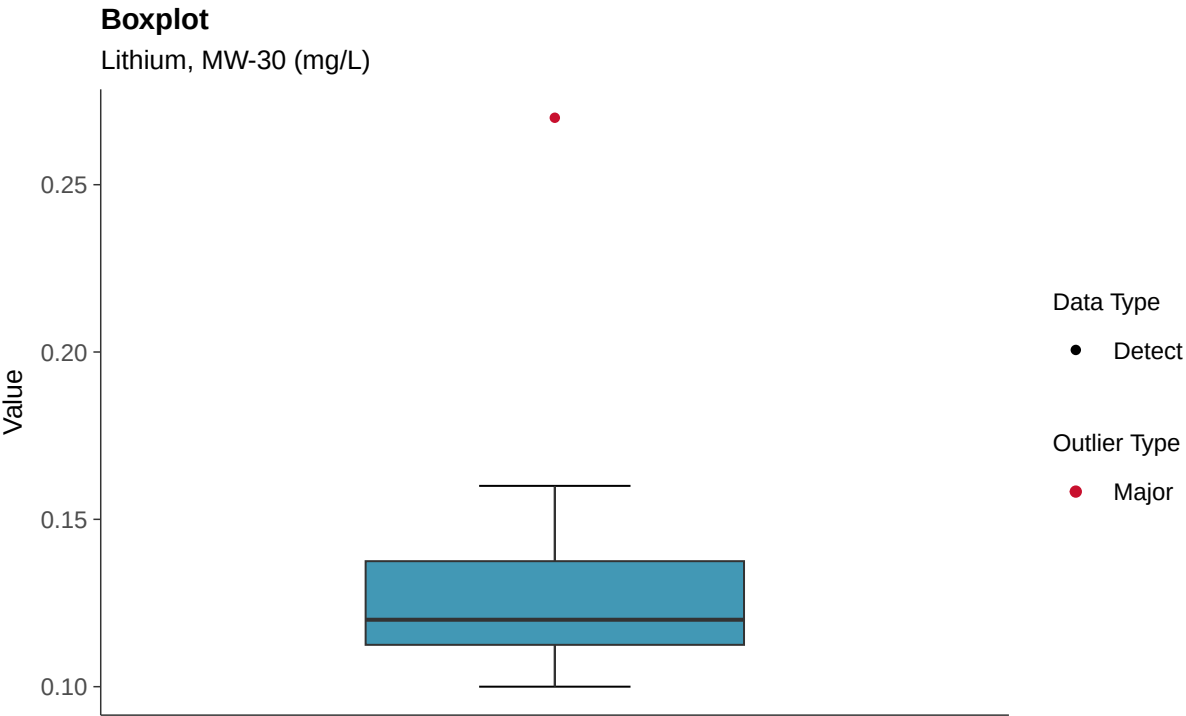


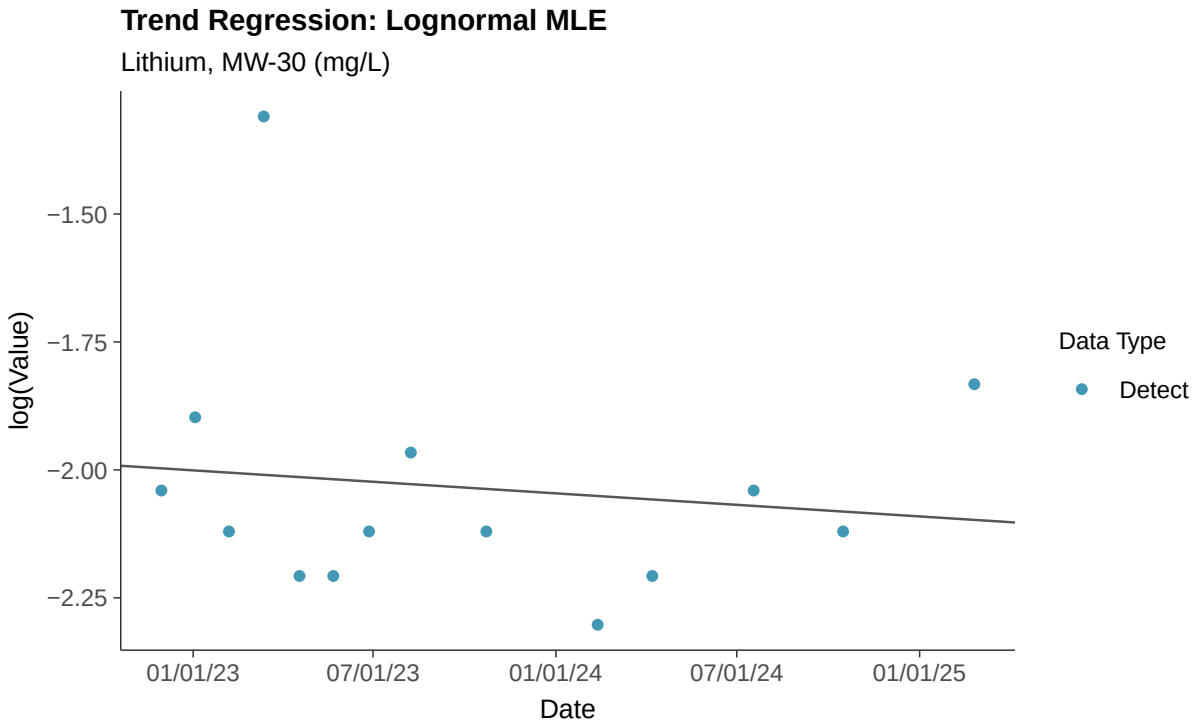
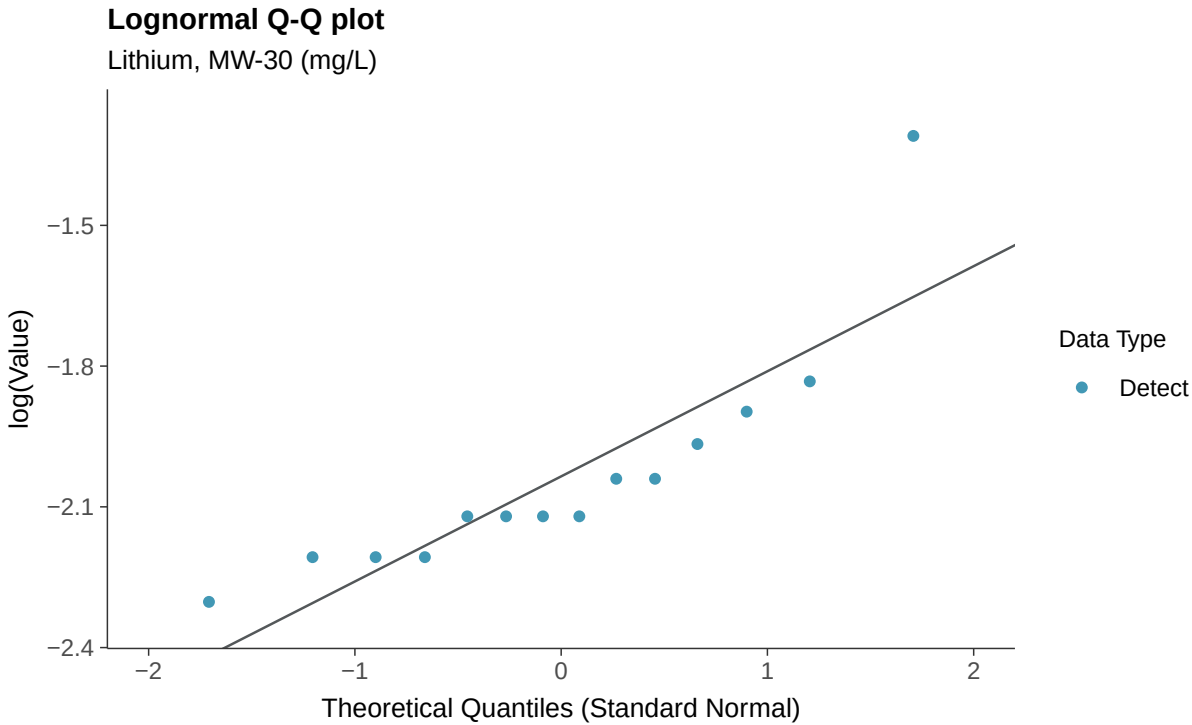


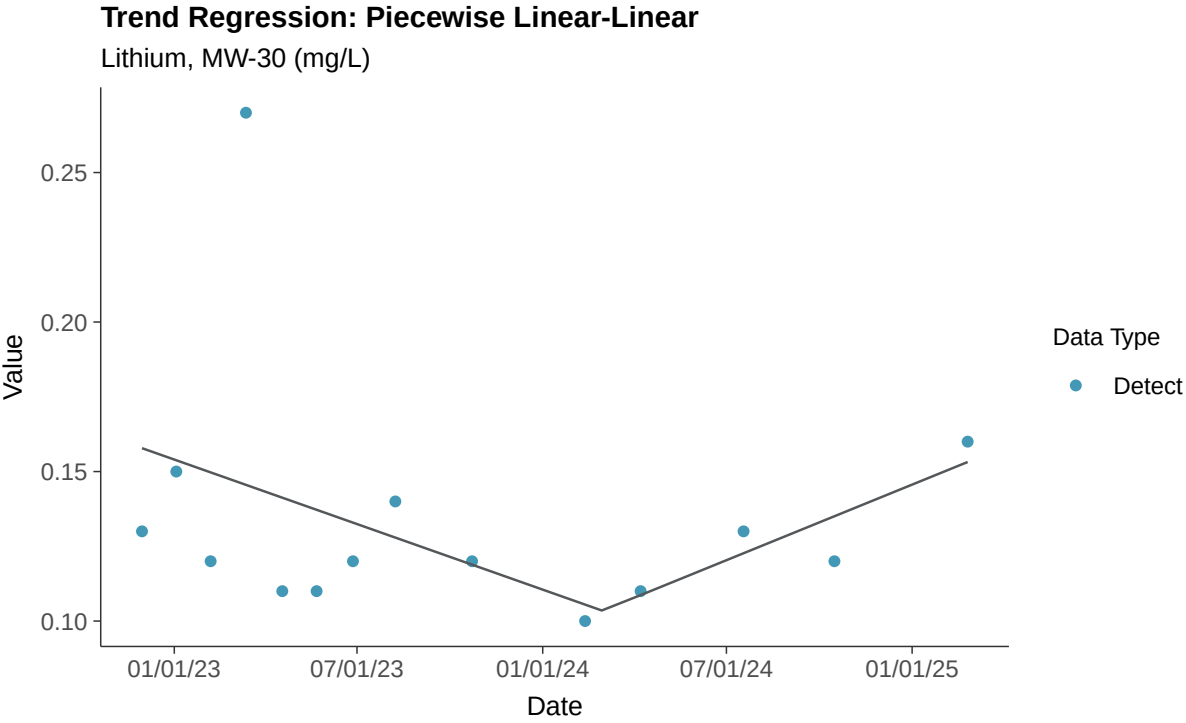
Appendix IV: Lithium, MW-30

ID: 40_1_4_116





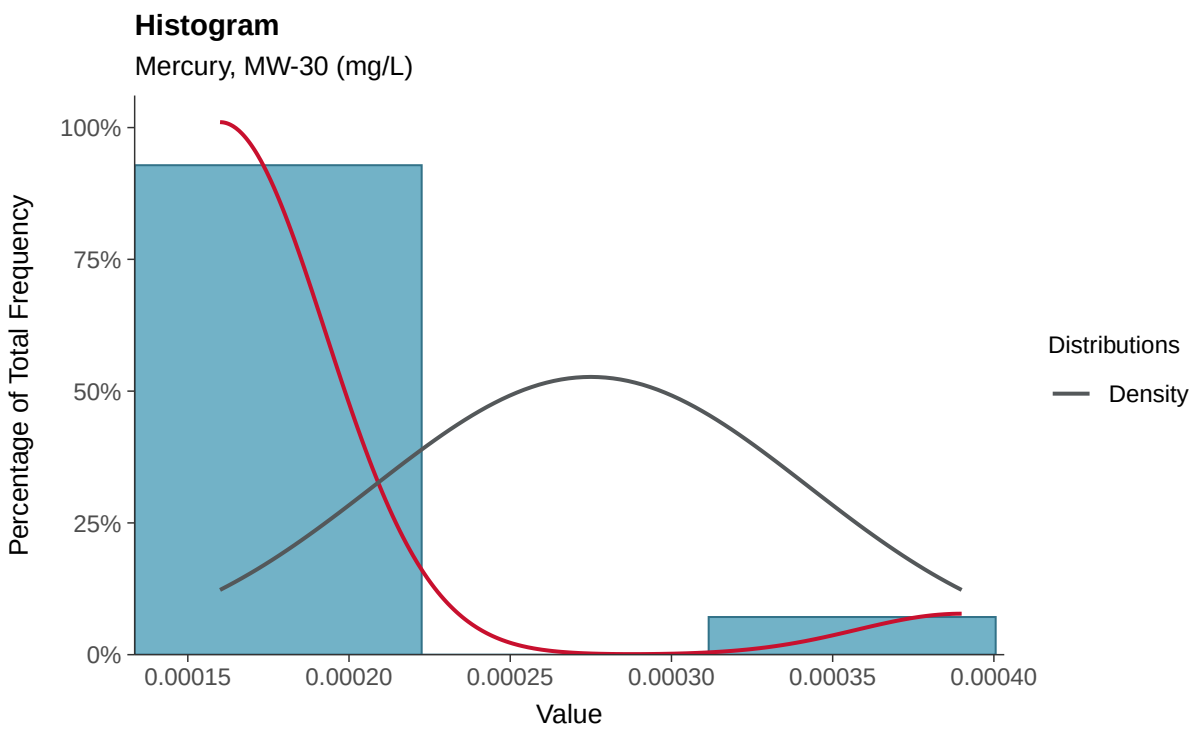
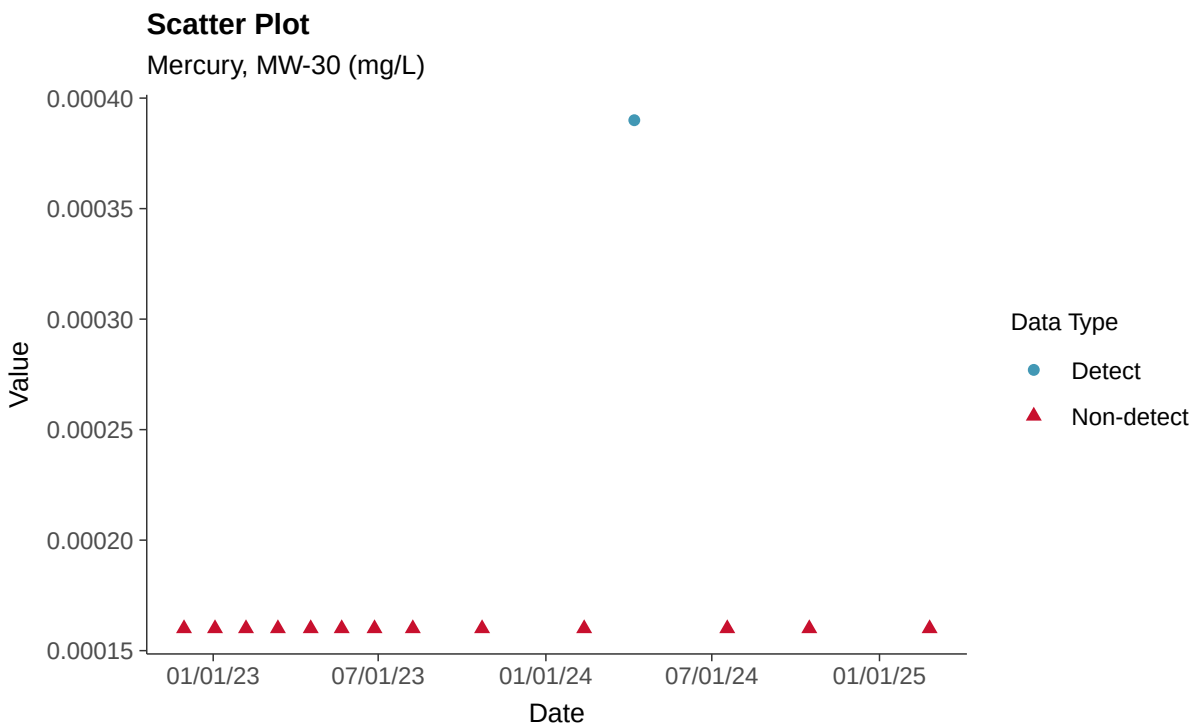


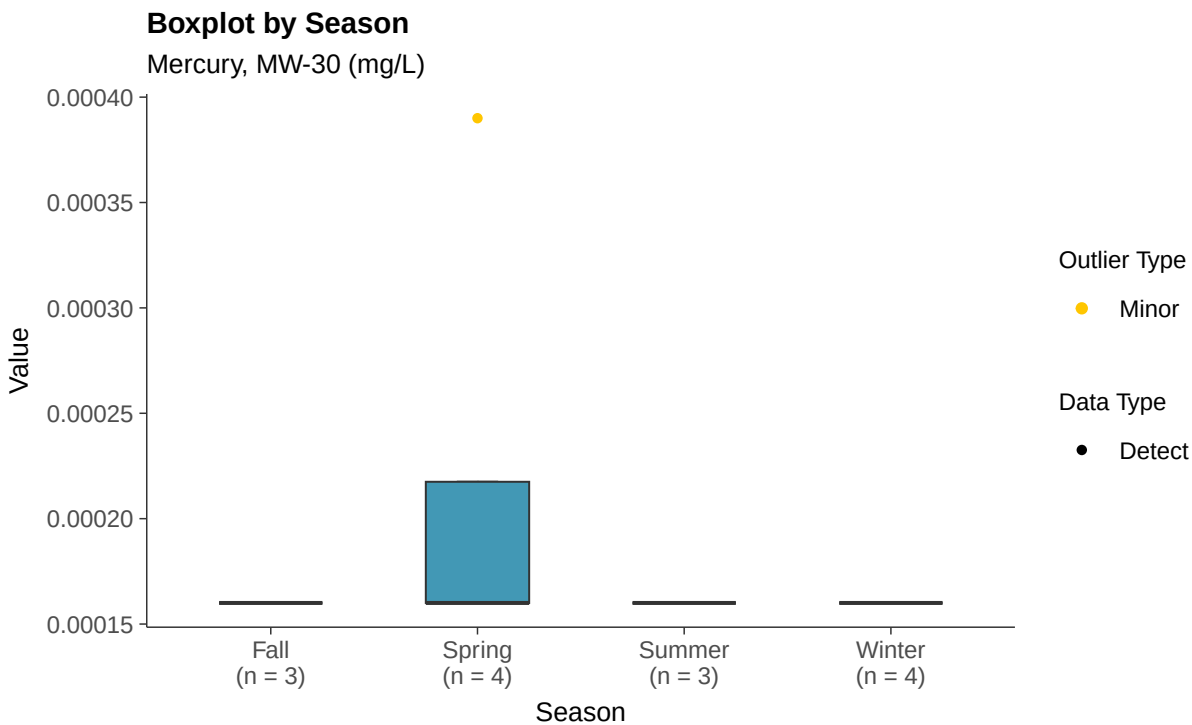
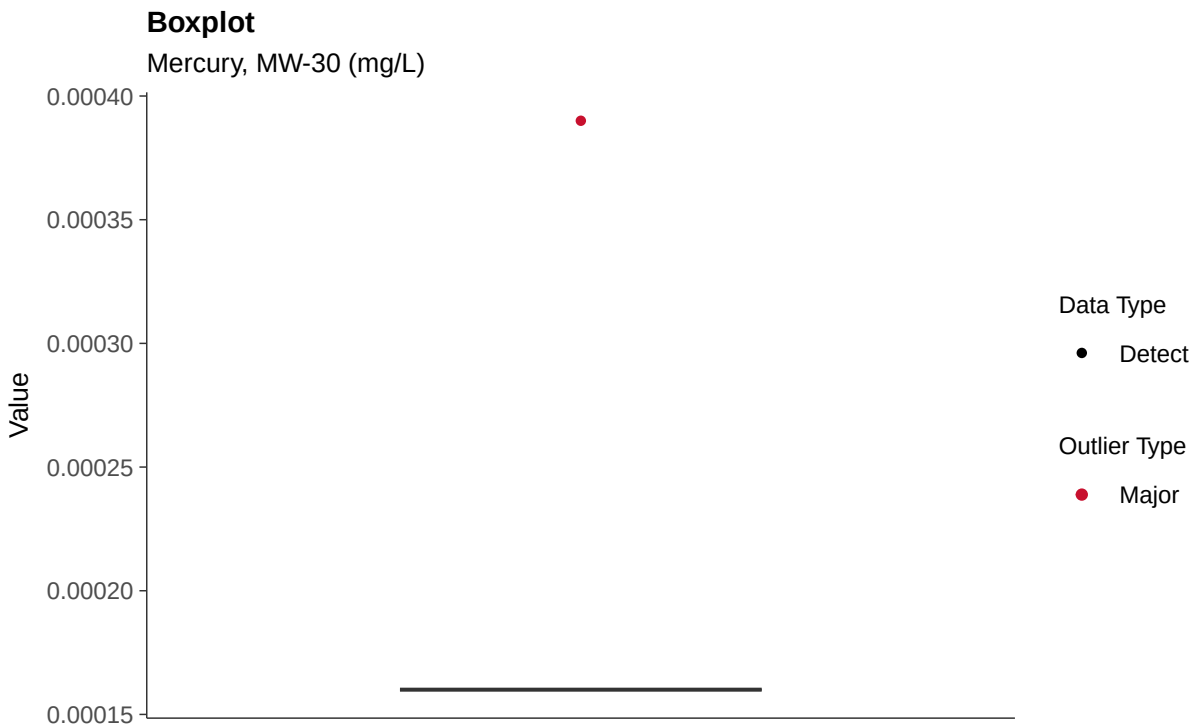


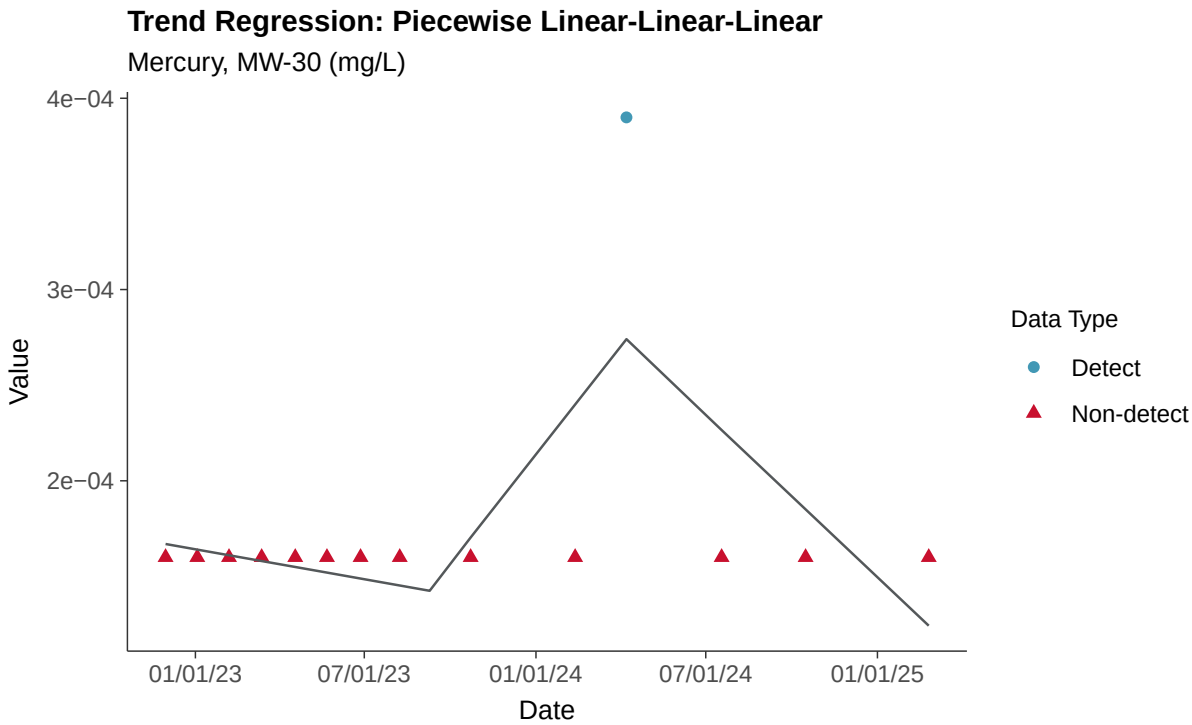
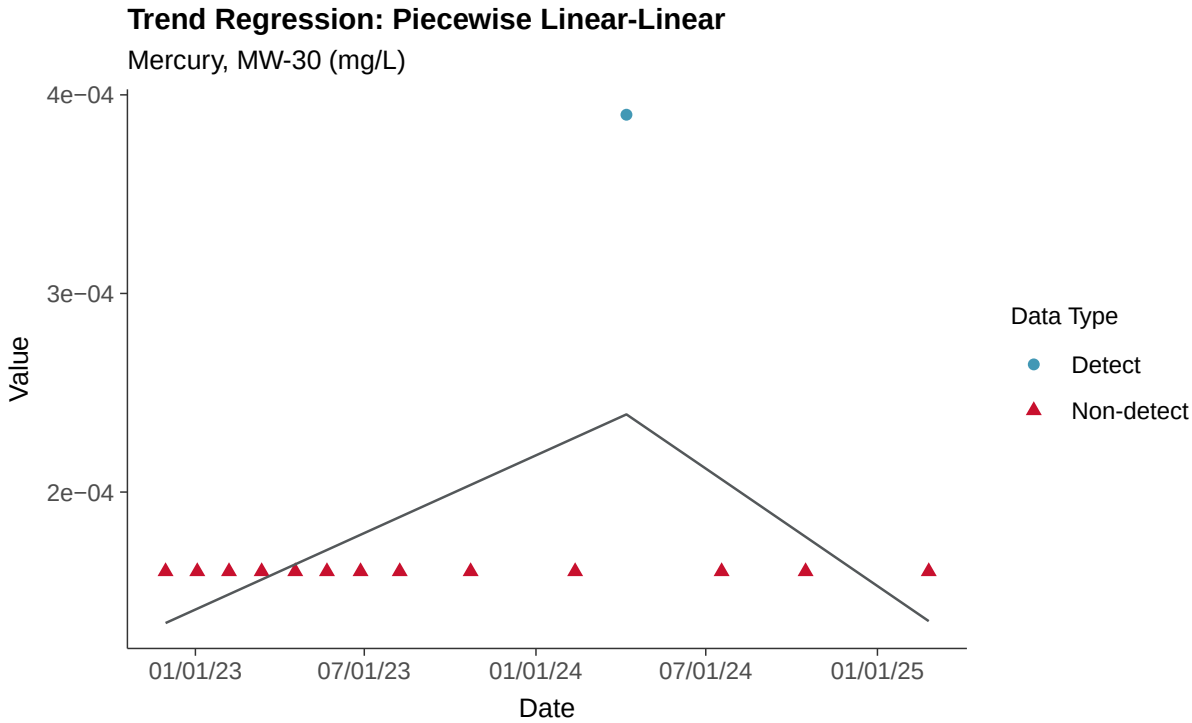


Appendix IV: Mercury, MW-30

ID: 40_1_4_117



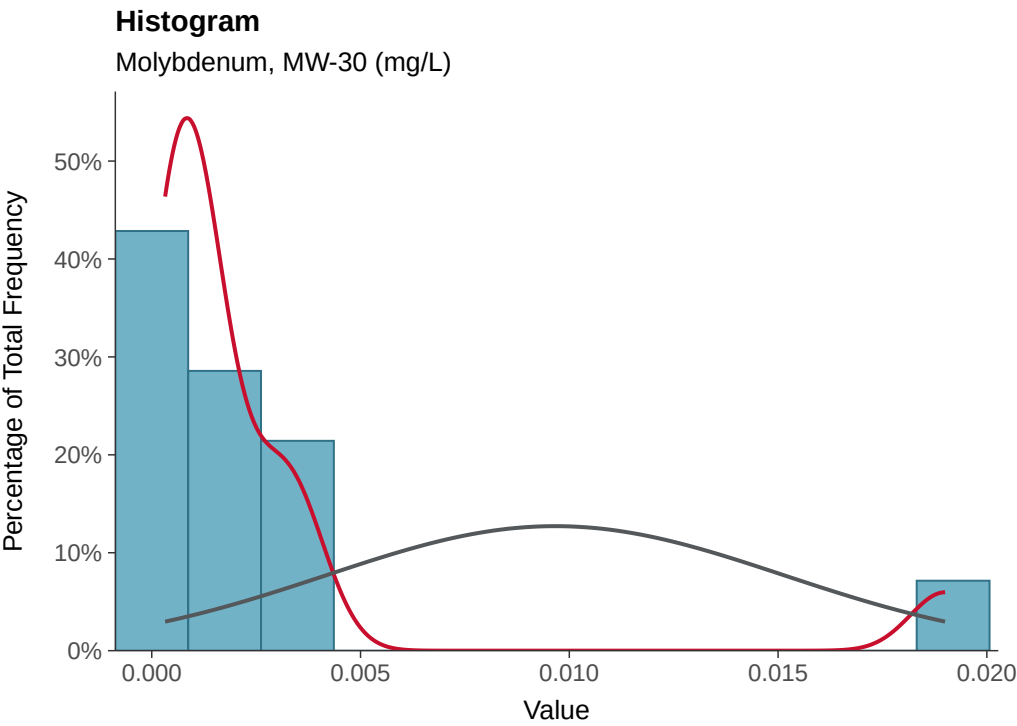
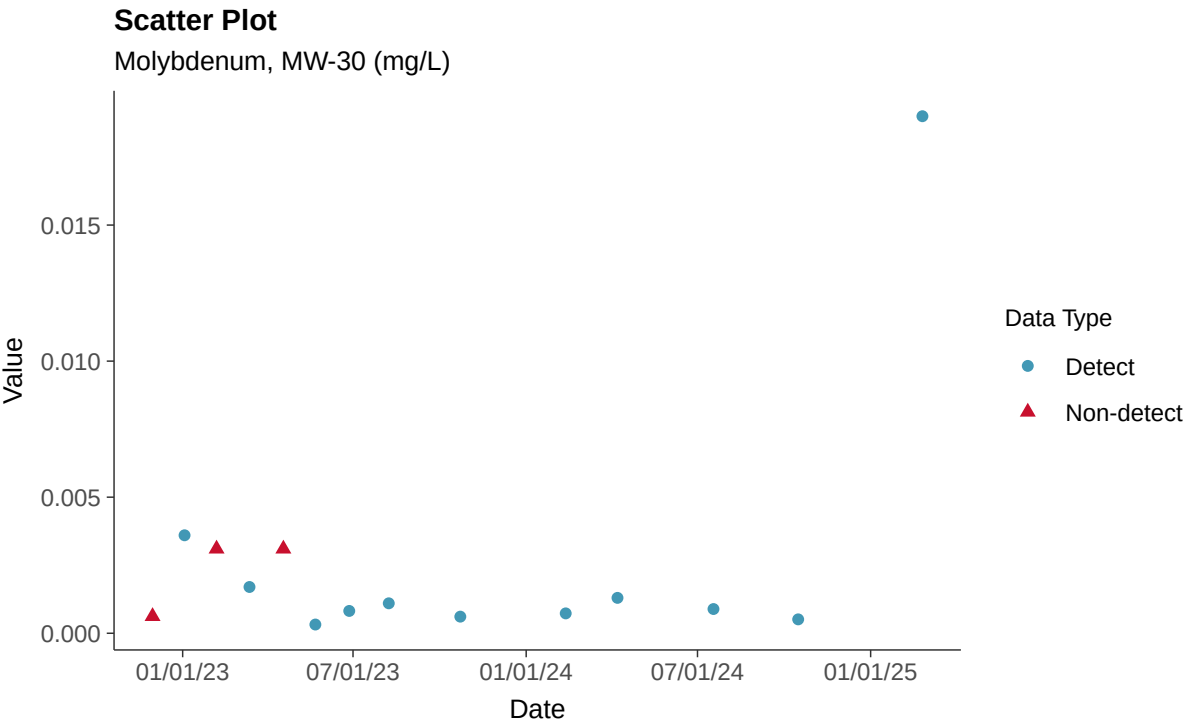


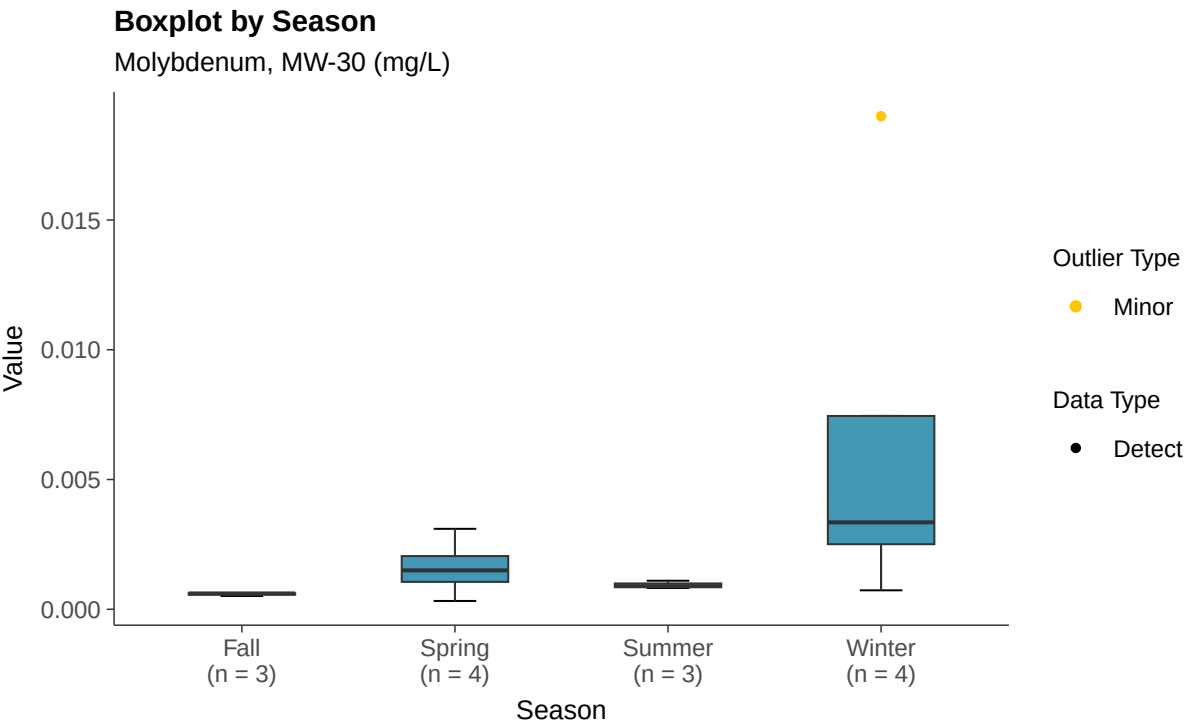
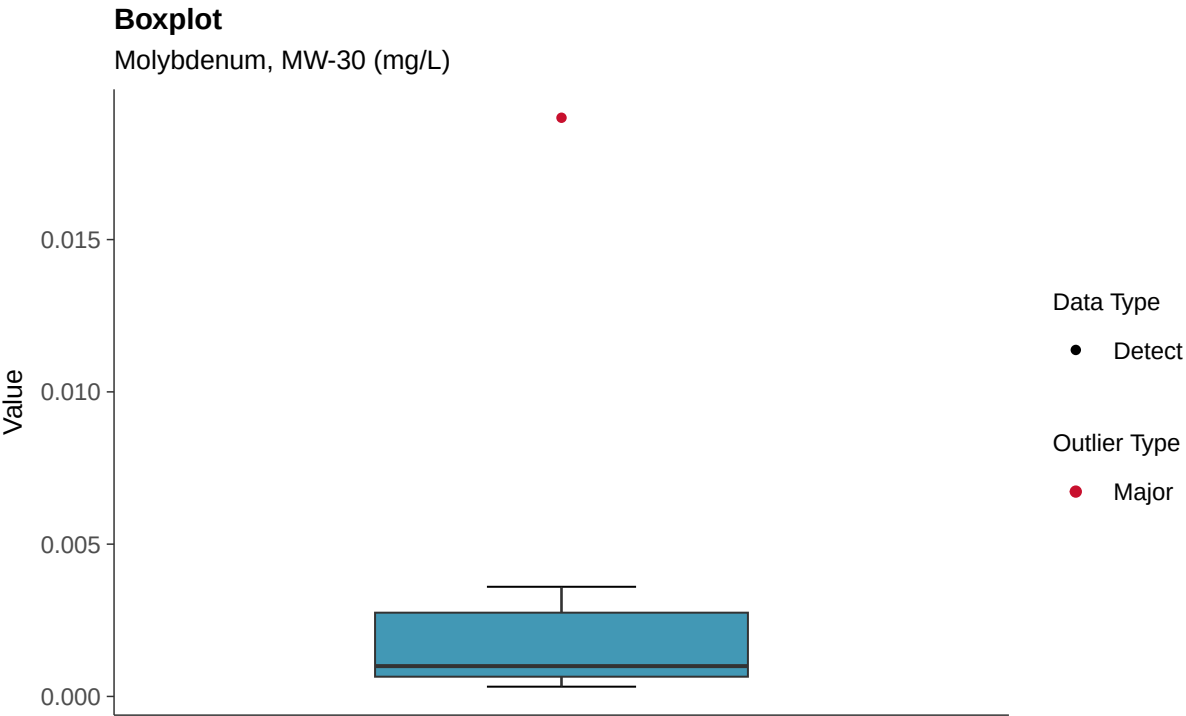




Appendix IV: Molybdenum, MW-30

ID: 40_1_4_118

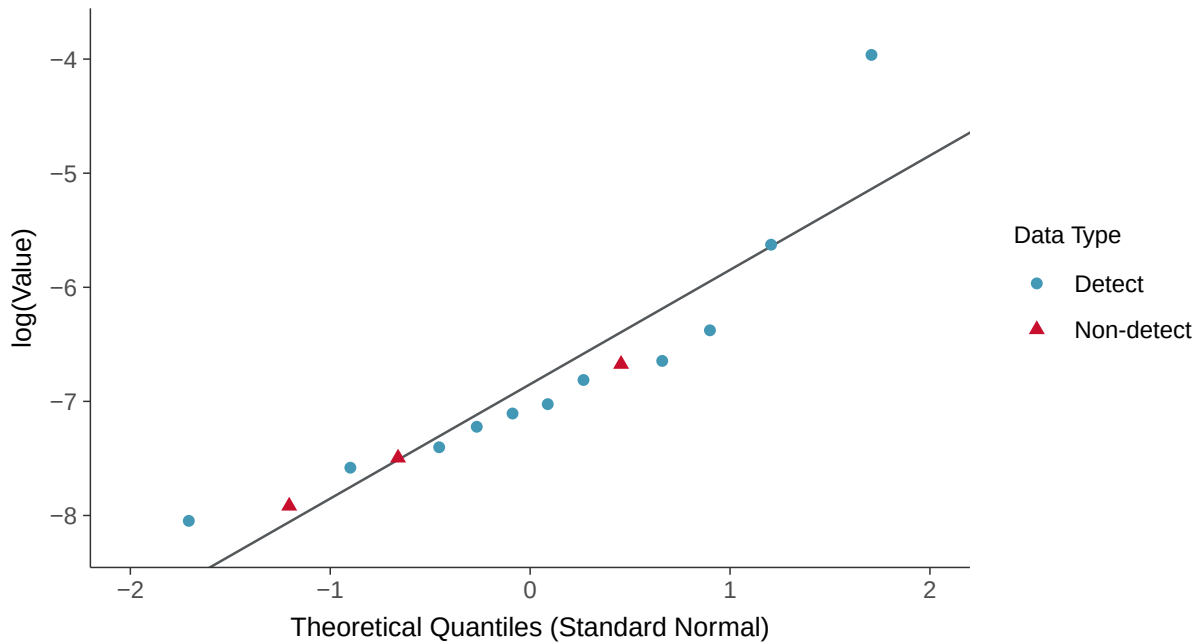






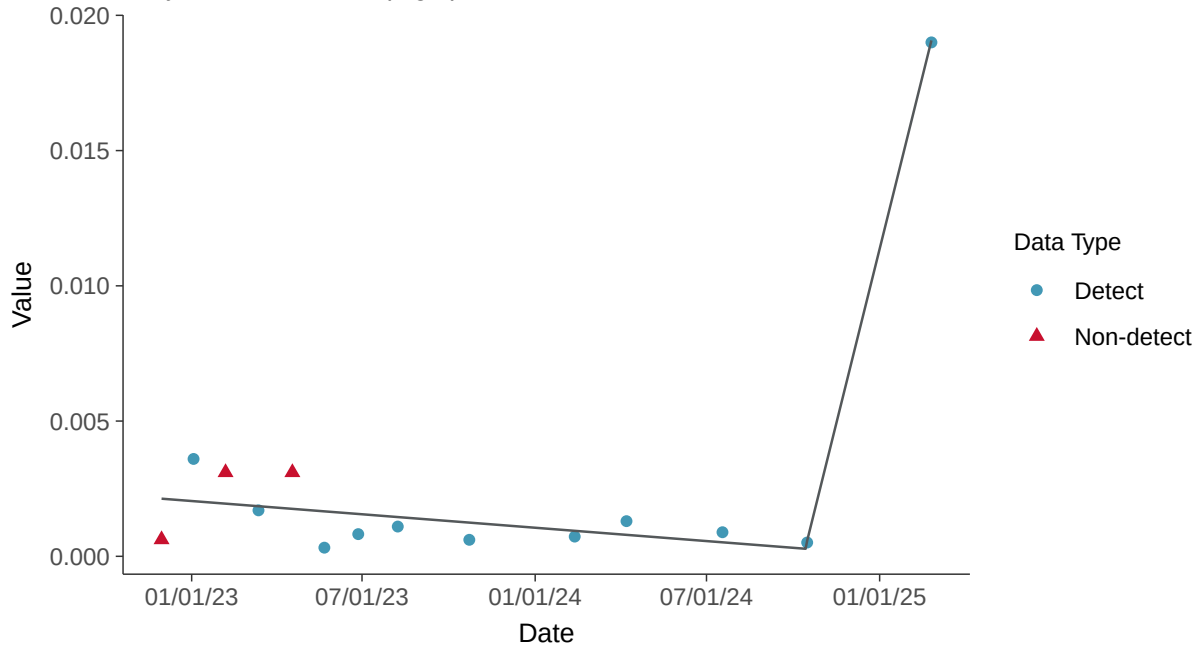
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-30 (mg/L)



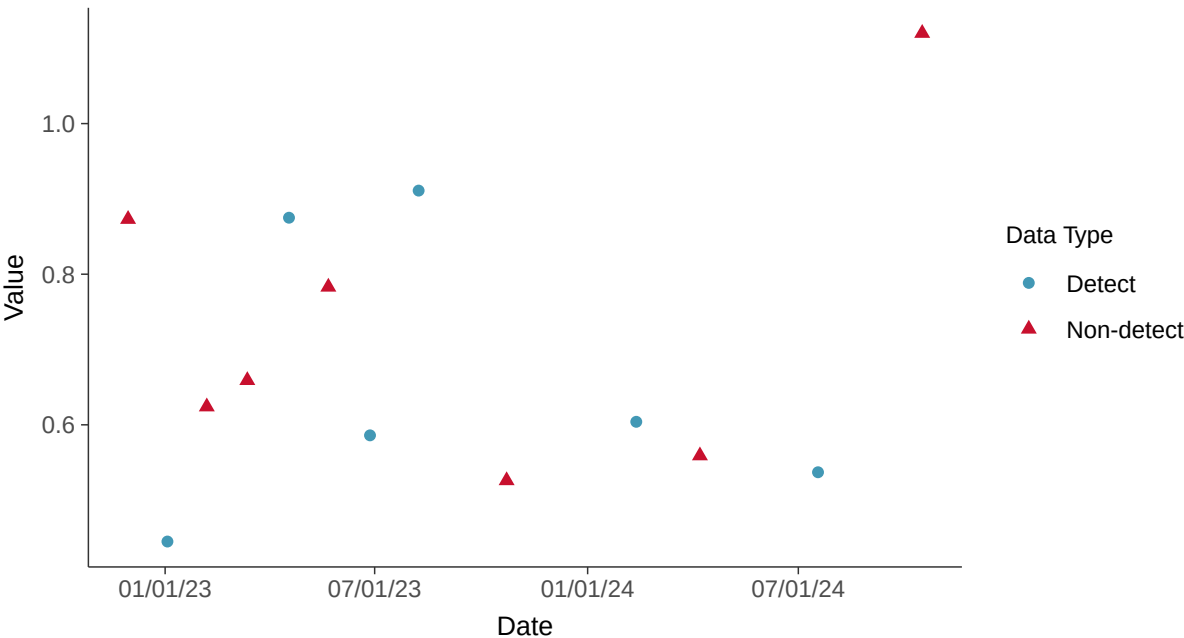


Appendix IV: Radium 226 and 228, MW-30

ID: 40_1_4_121

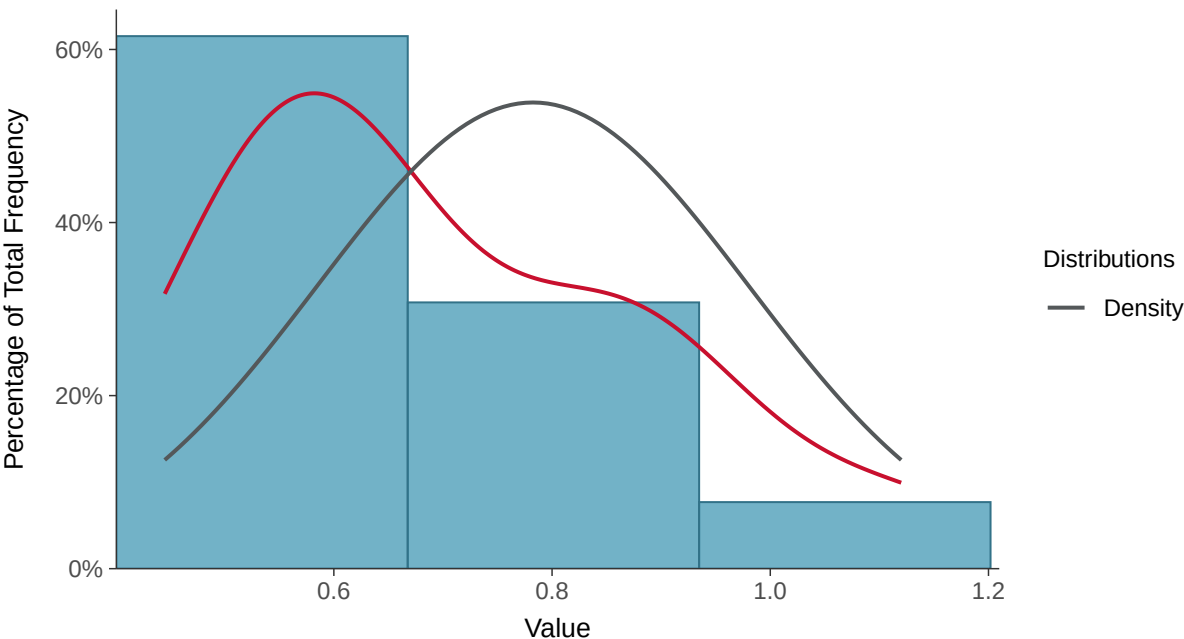
Scatter Plot

Radium 226 and 228, MW-30 (pCi/L)



Histogram

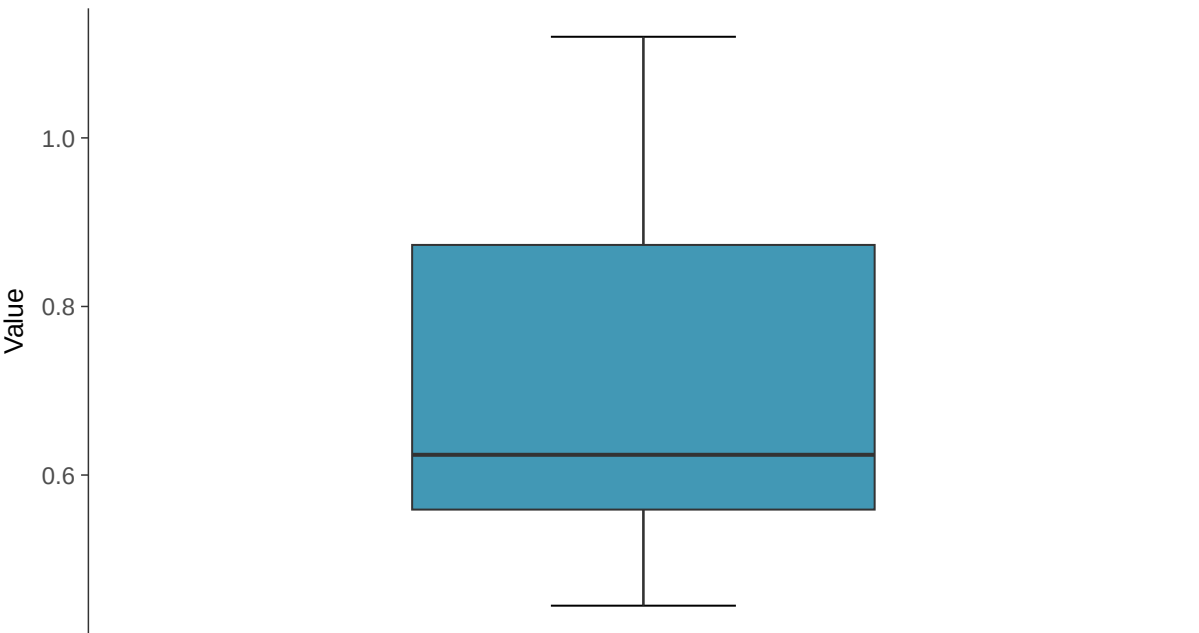
Radium 226 and 228, MW-30 (pCi/L)





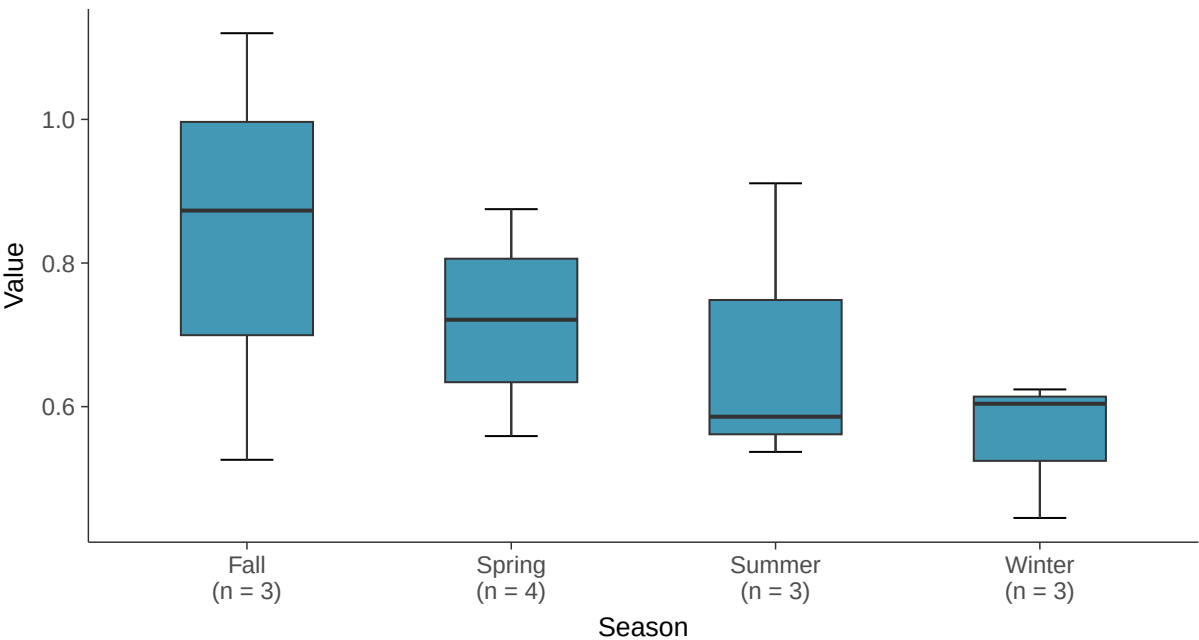
Boxplot

Radium 226 and 228, MW-30 (pCi/L)



Boxplot by Season

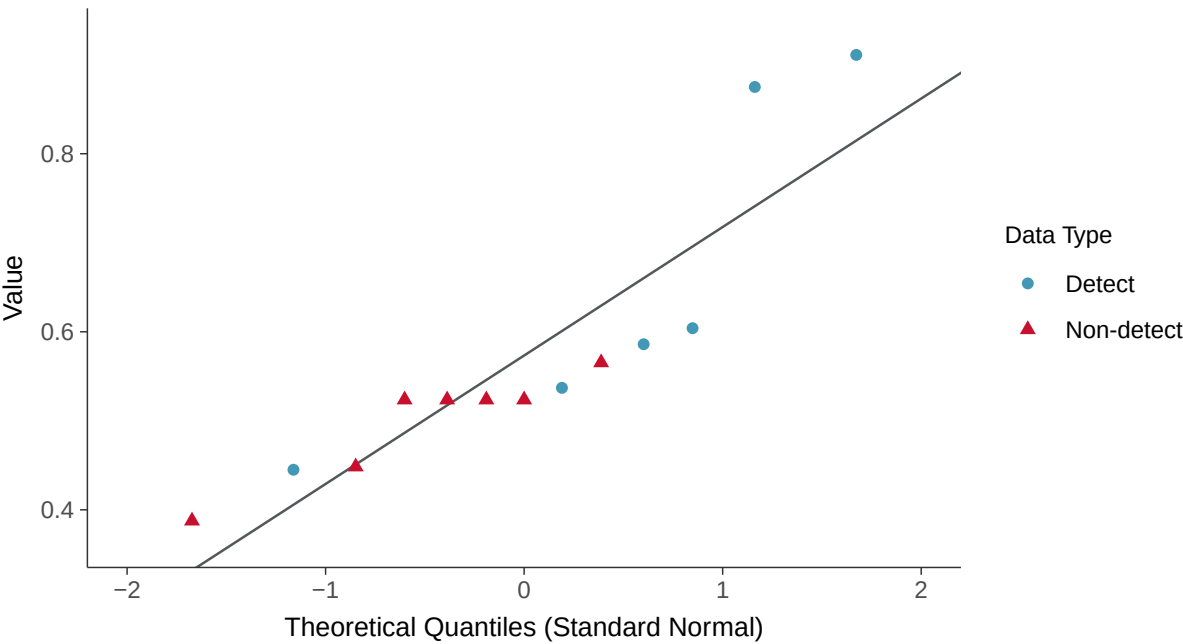
Radium 226 and 228, MW-30 (pCi/L)





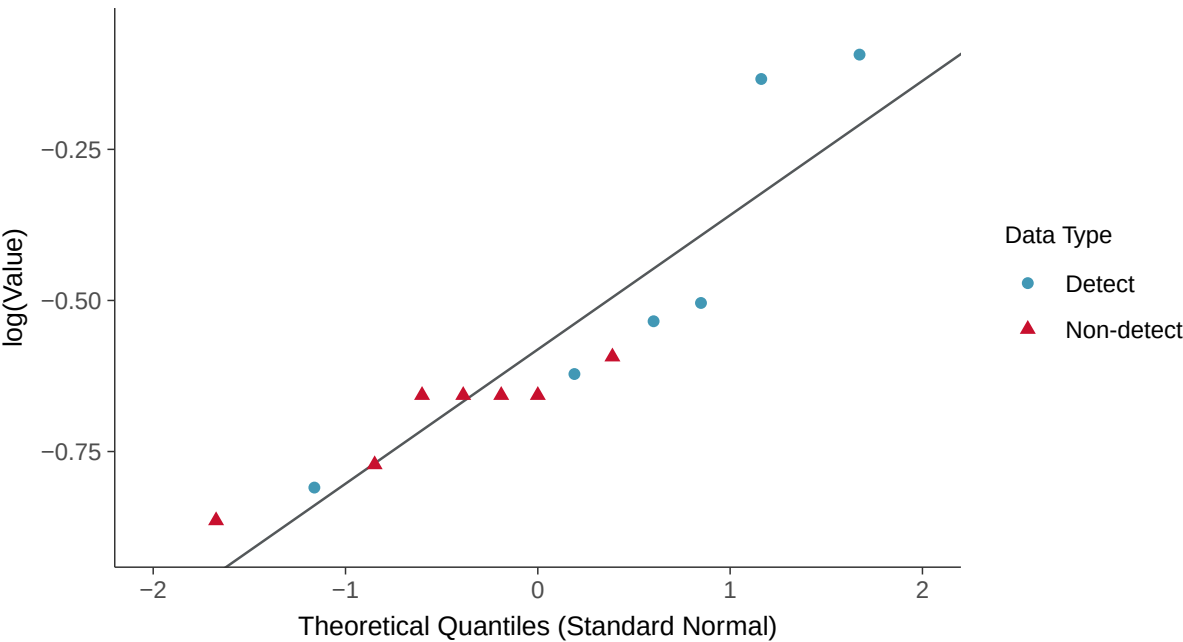
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



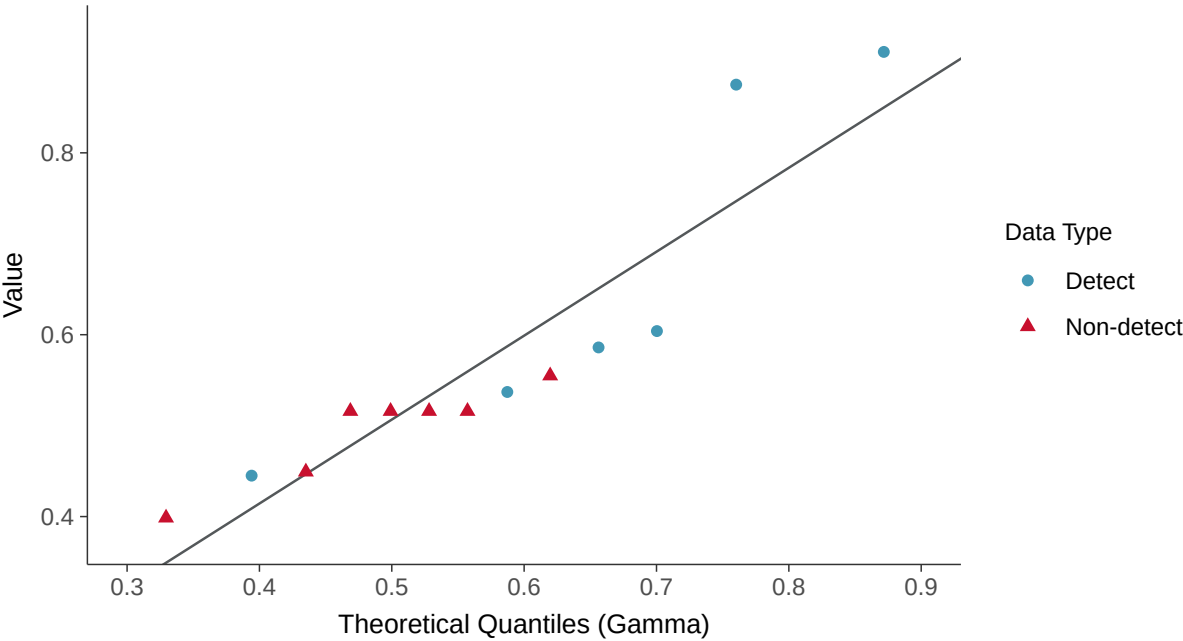
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)





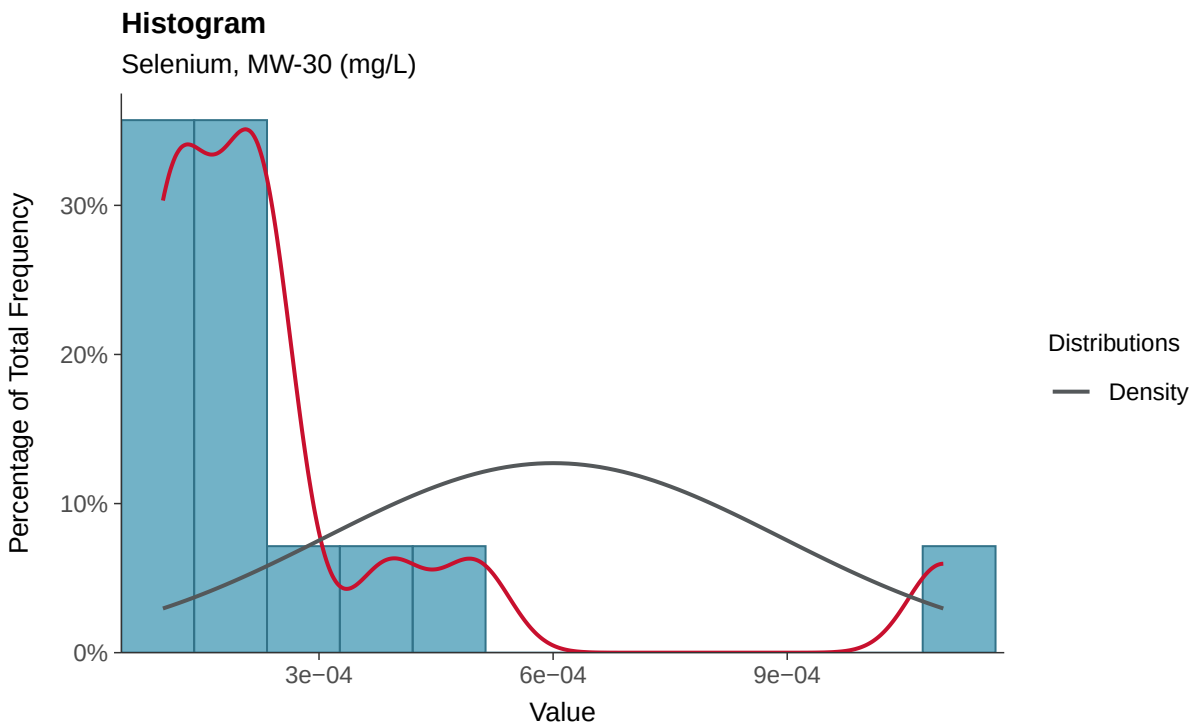
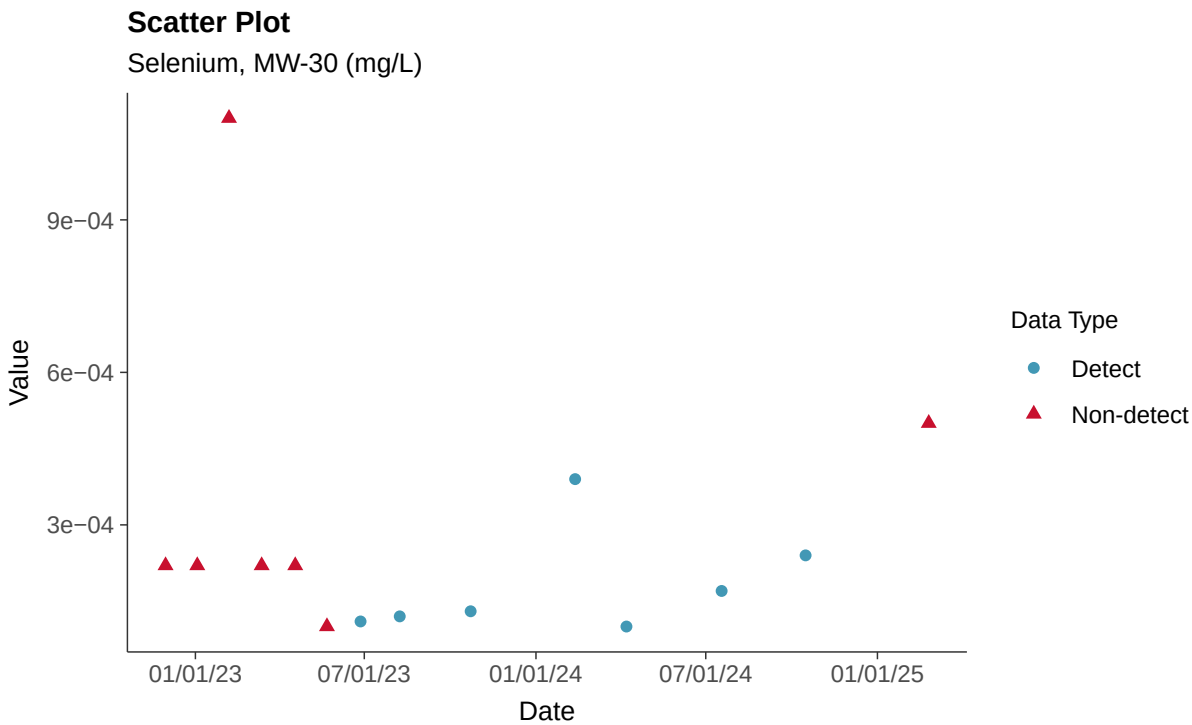
Gamma Q-Q plot using ROS Imputed Estimates
Radium 226 and 228, MW-30 (pCi/L)

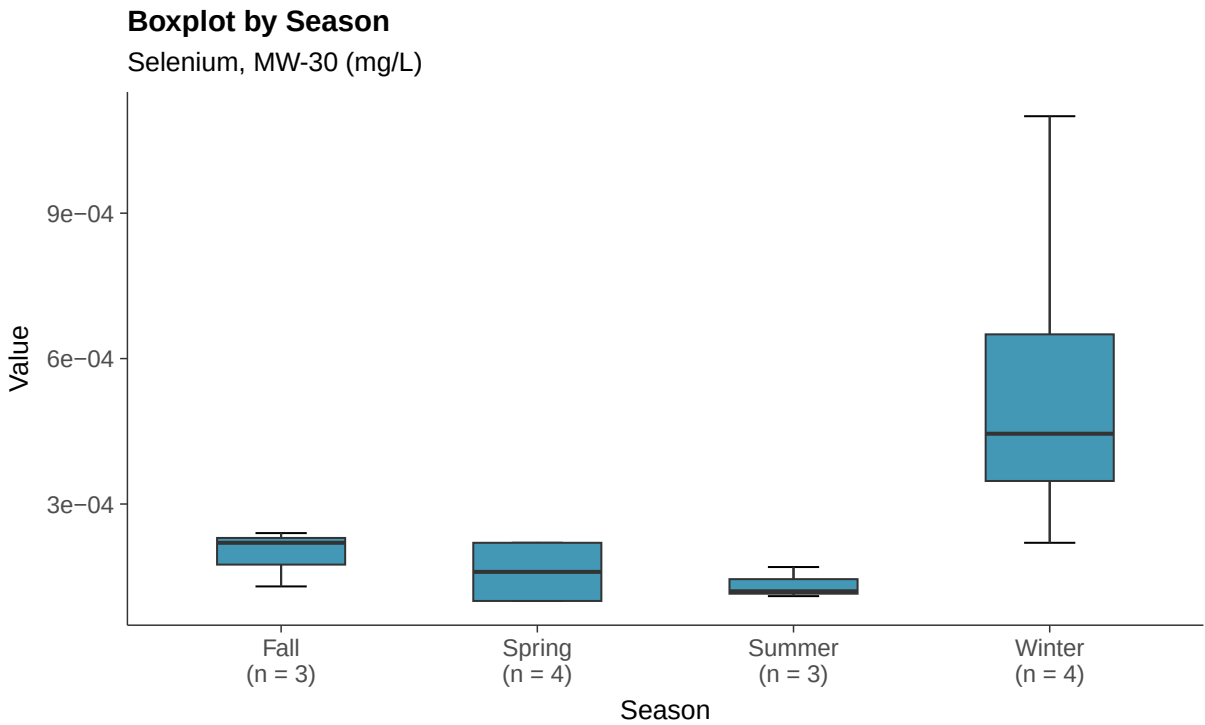
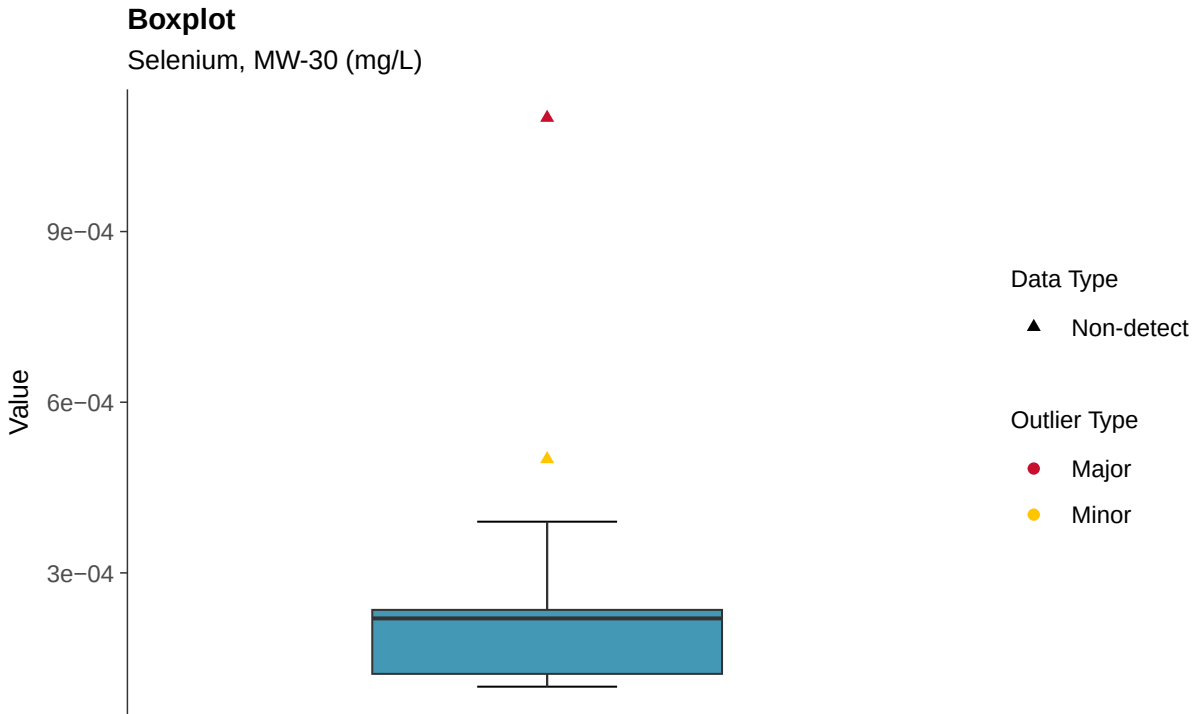




Appendix IV: Selenium, MW-30

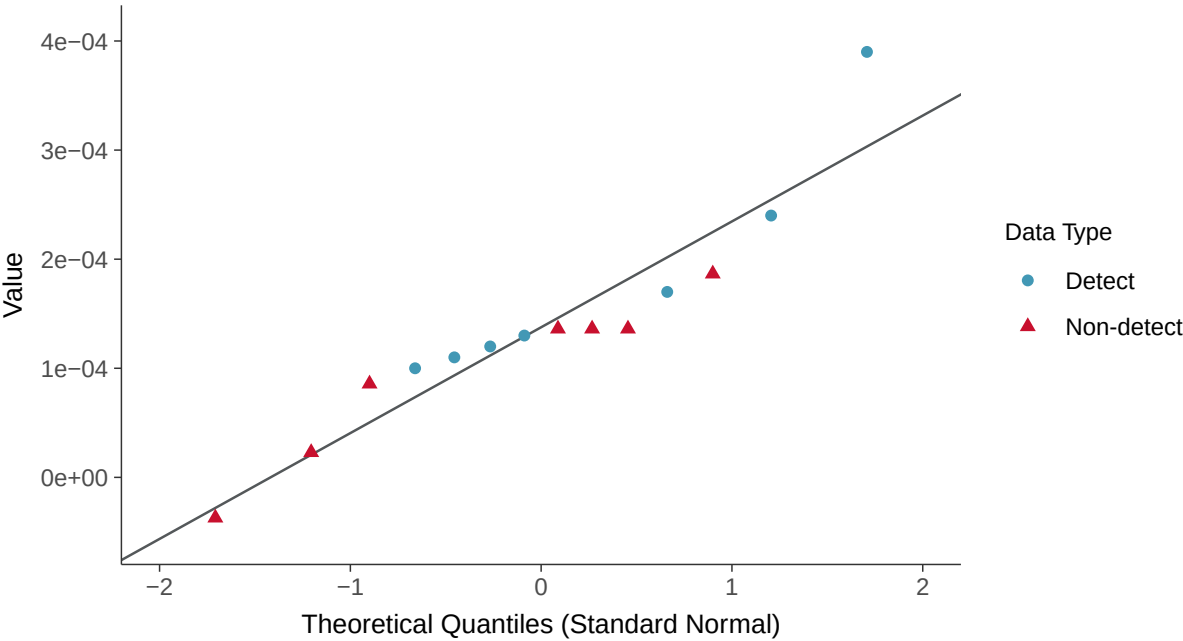
ID: 40_1_4_122



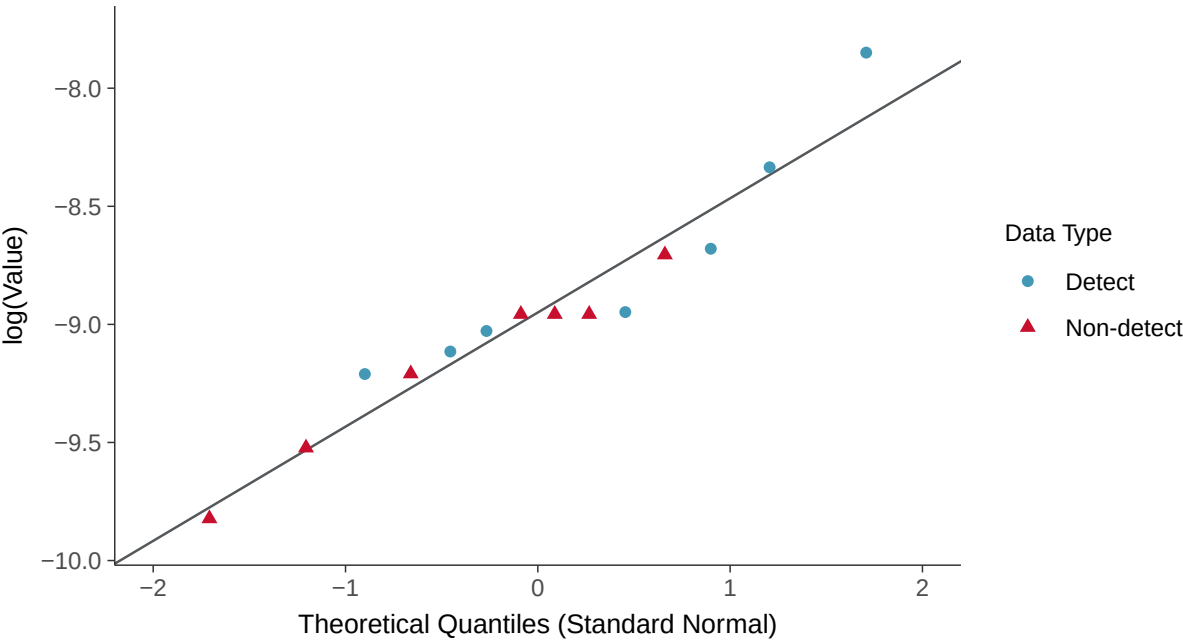




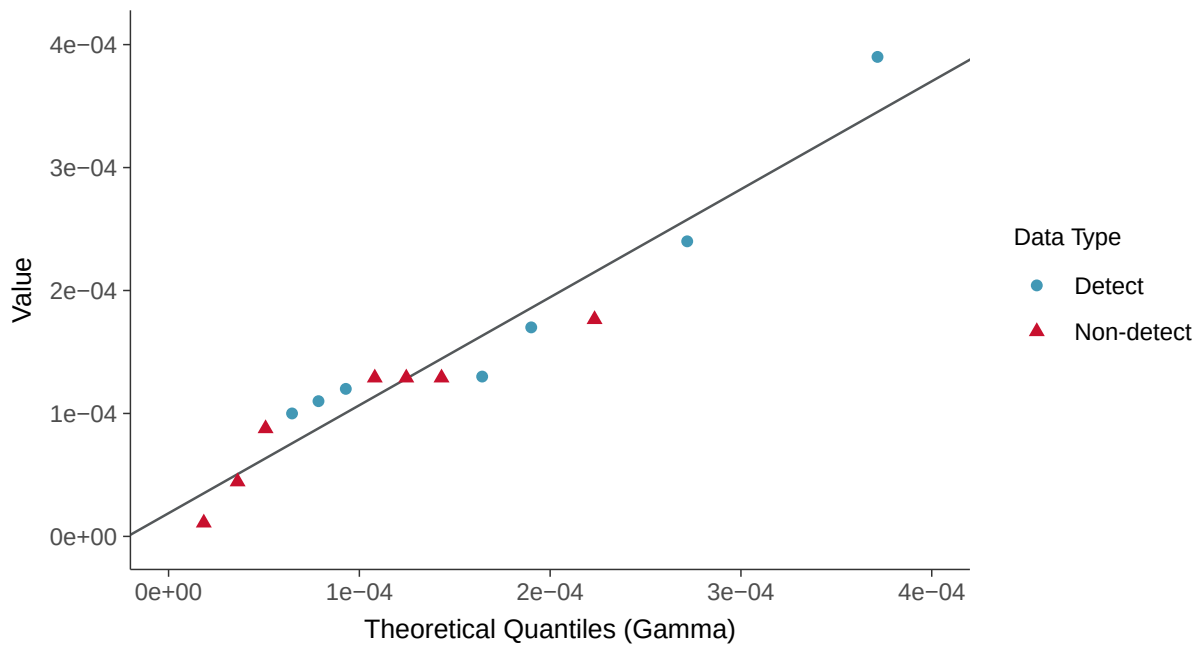
Normal Q-Q plot using ROS Imputed Estimates
Selenium, MW-30 (mg/L)



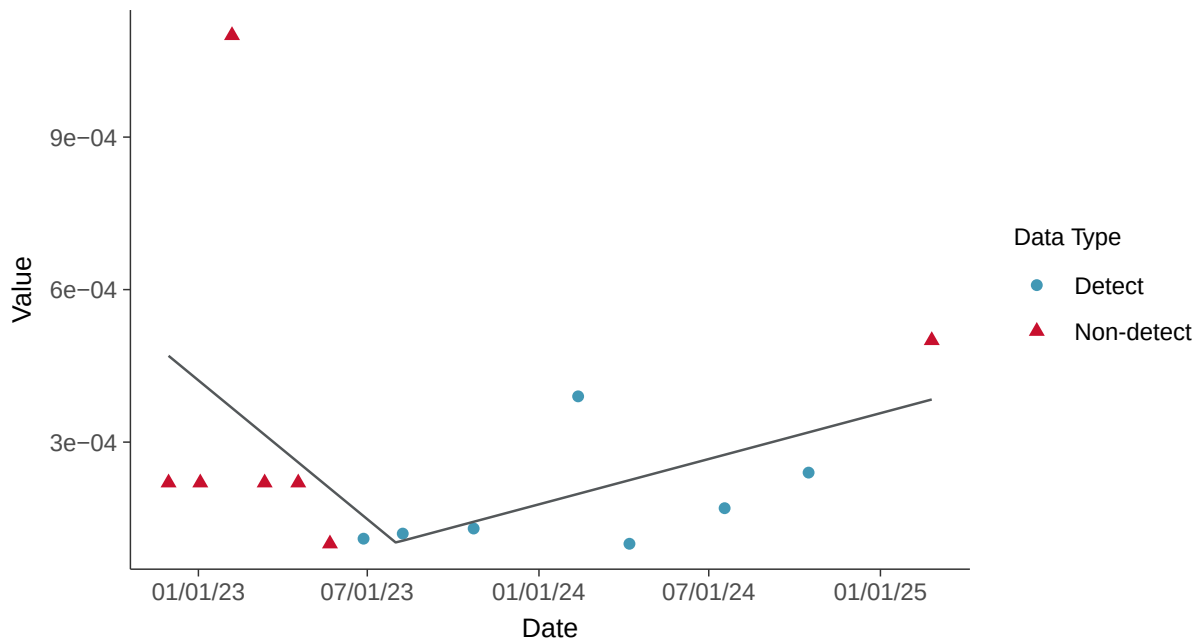
Lognormal Q-Q plot using ROS Imputed Estimates
Selenium, MW-30 (mg/L)

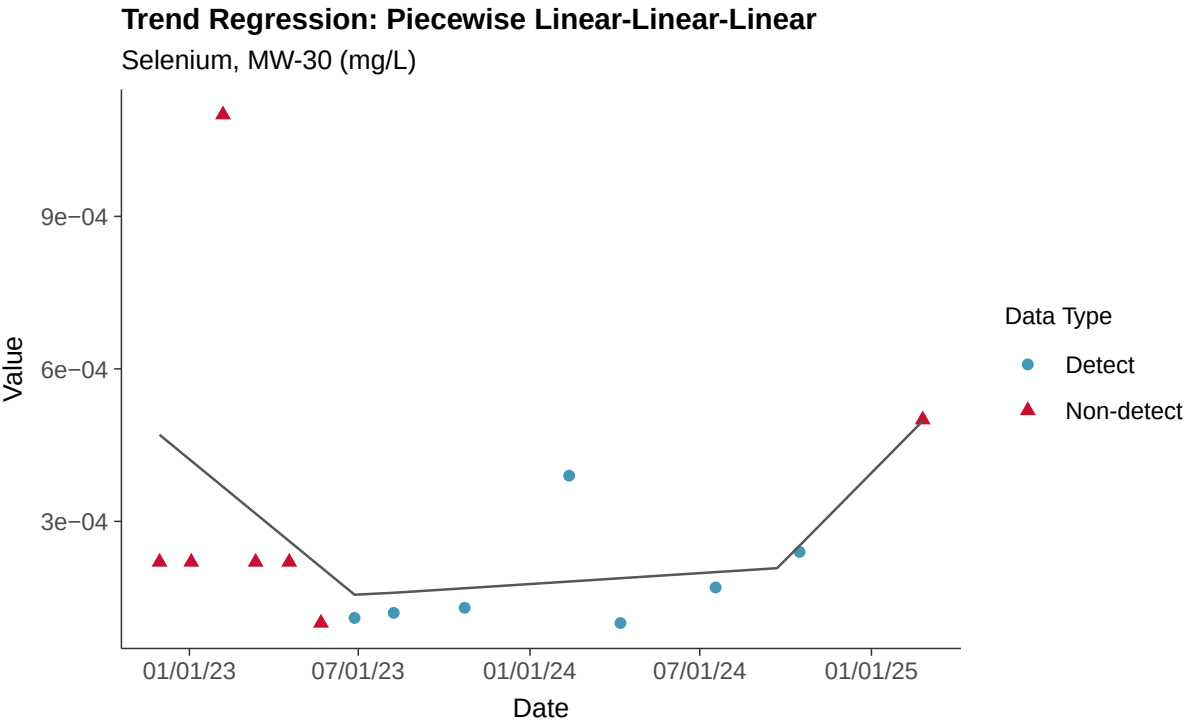


Selenium, MW-30 (mg/L)



Selenium, MW-30 (mg/L)

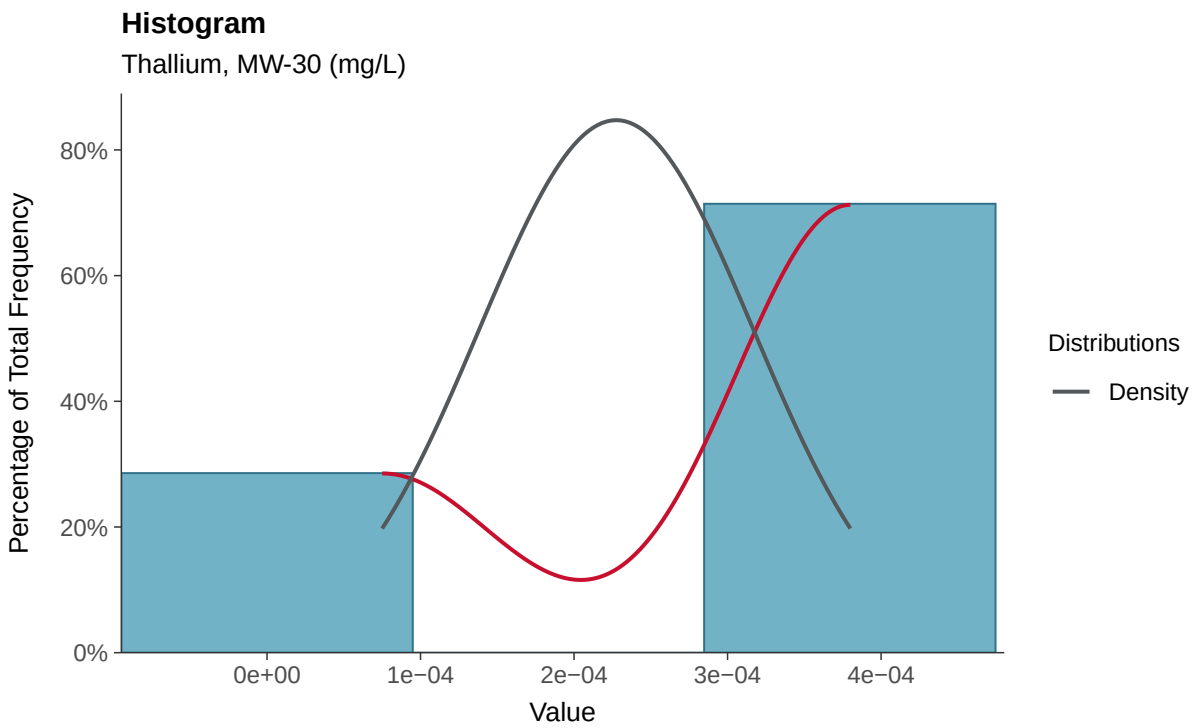
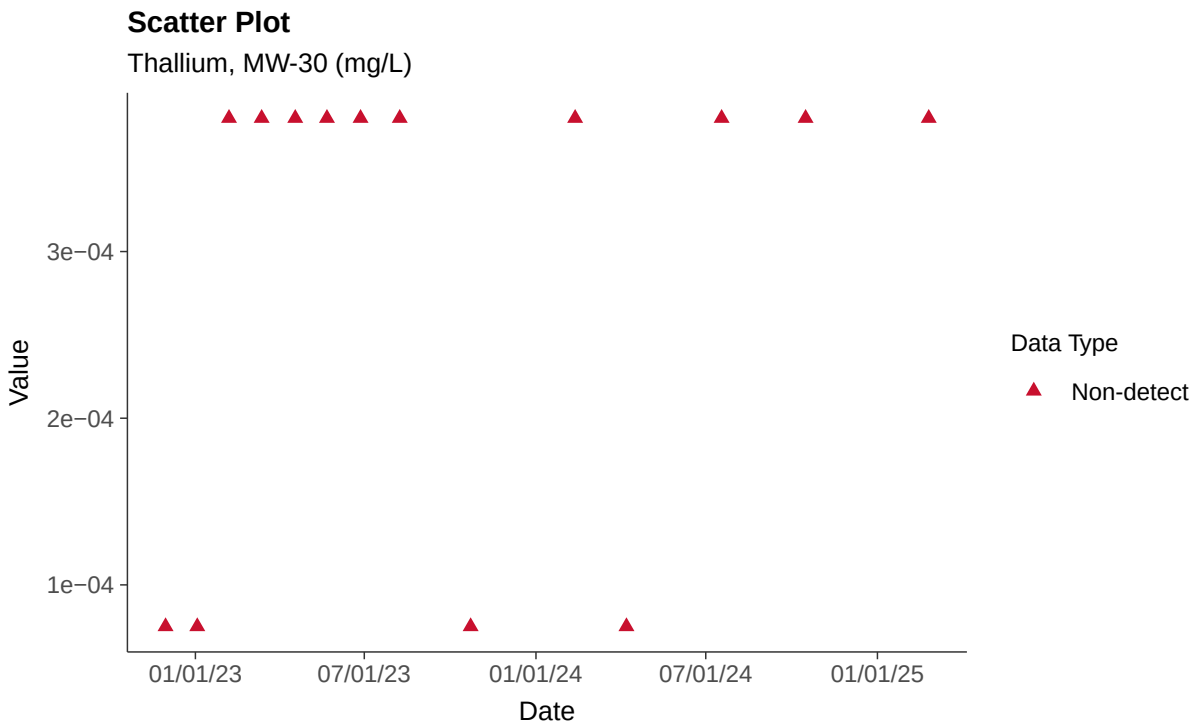


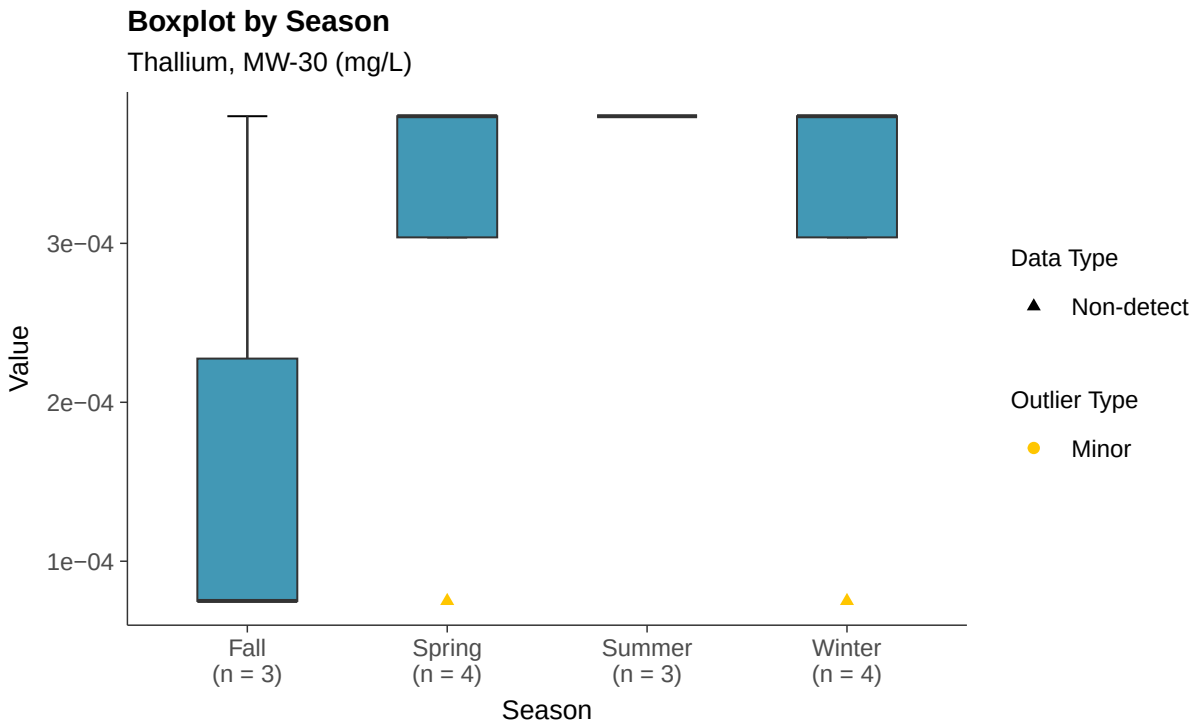
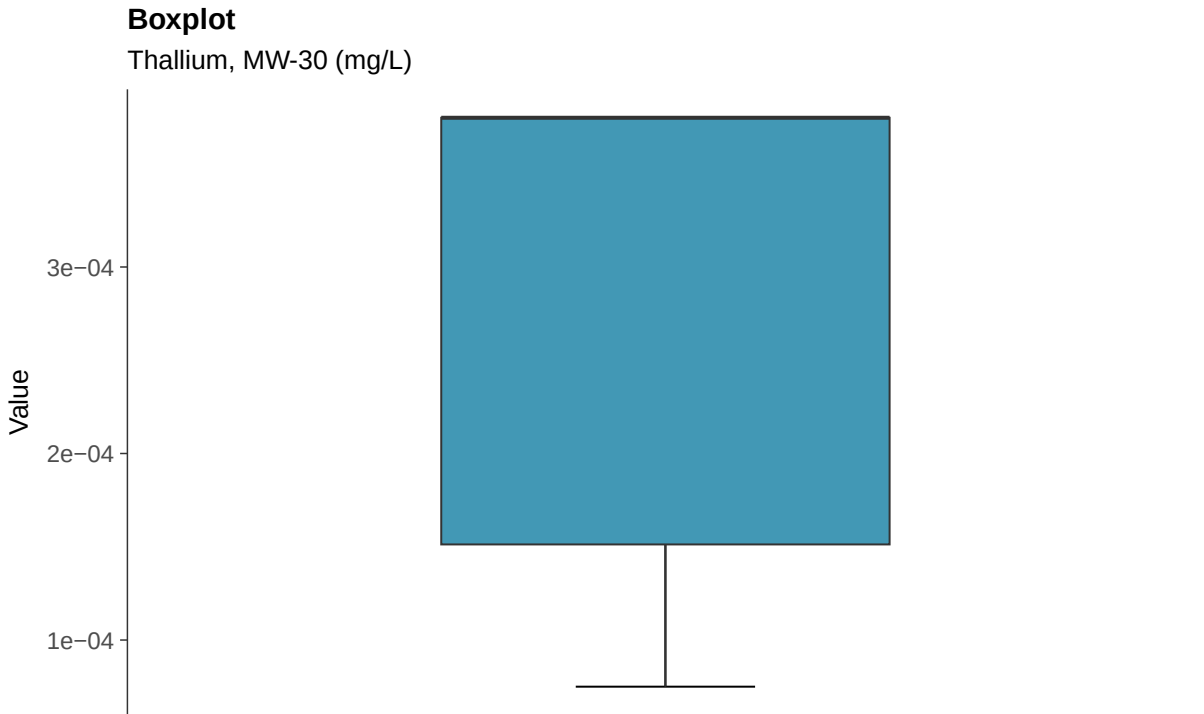


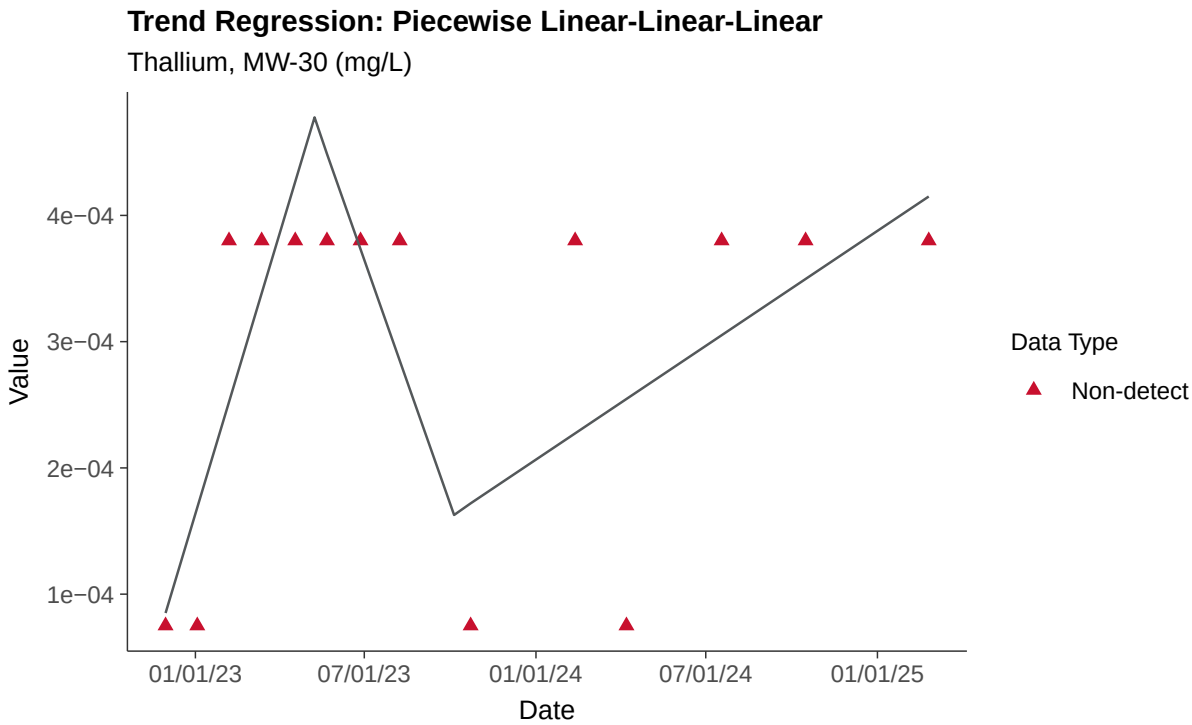
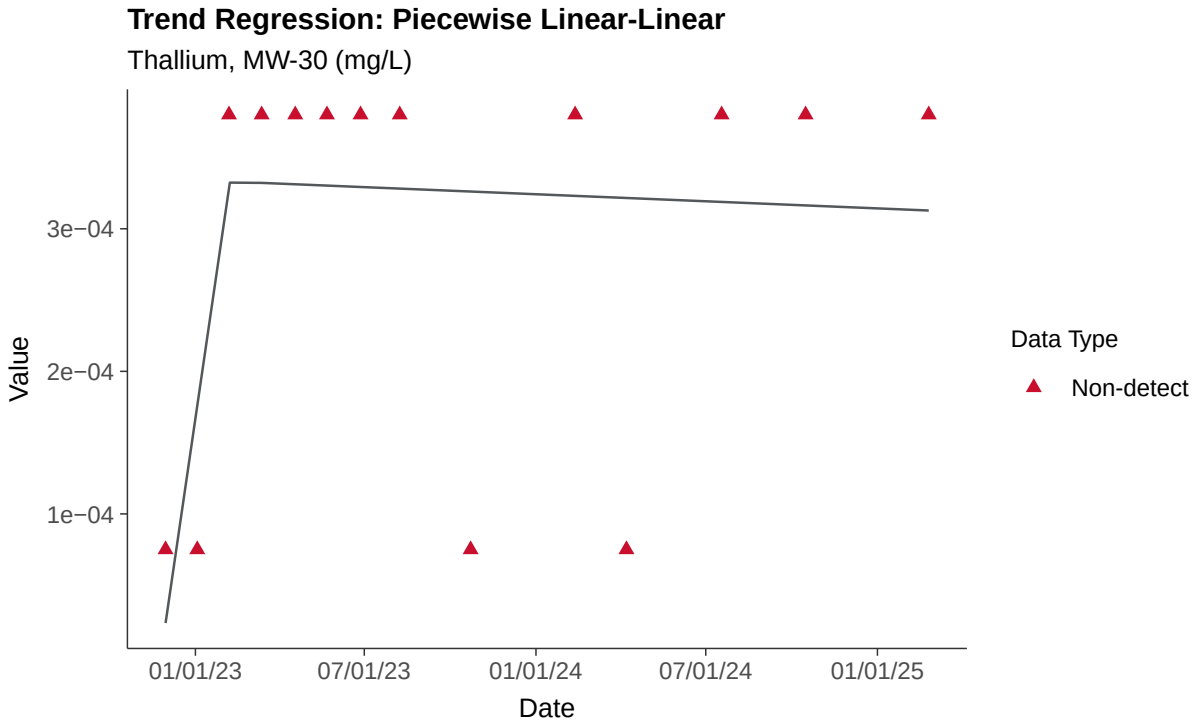


Appendix IV: Thallium, MW-30

ID: 40_1_4_125



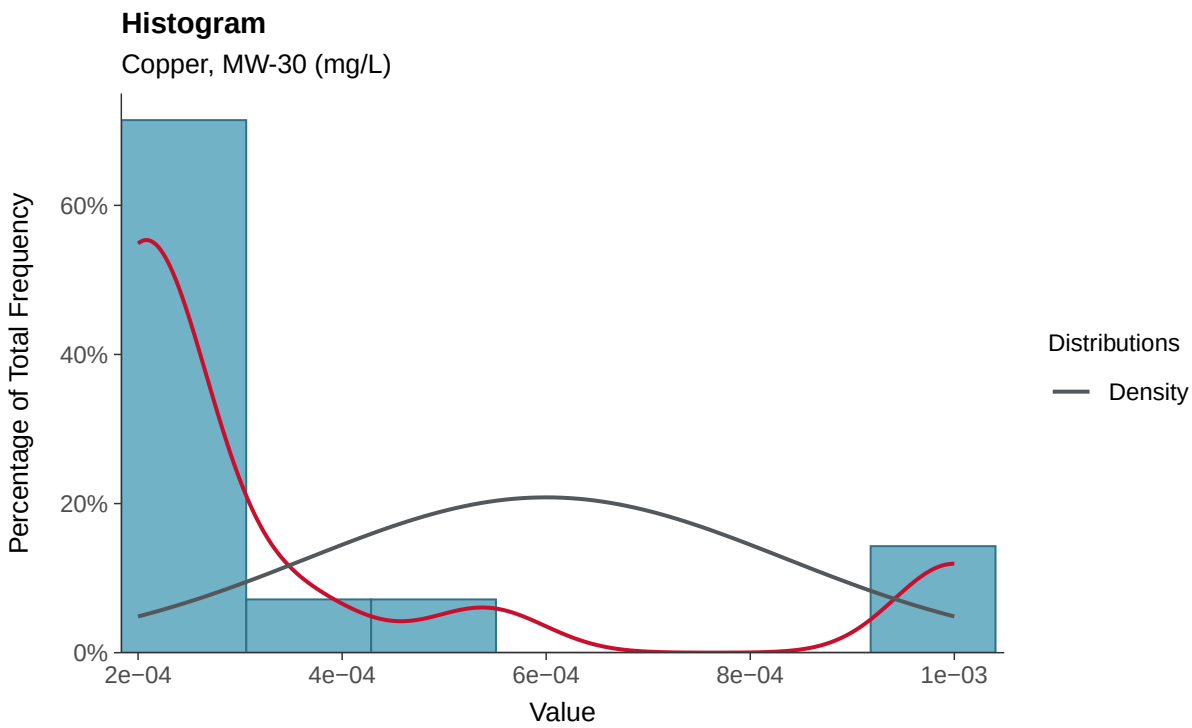
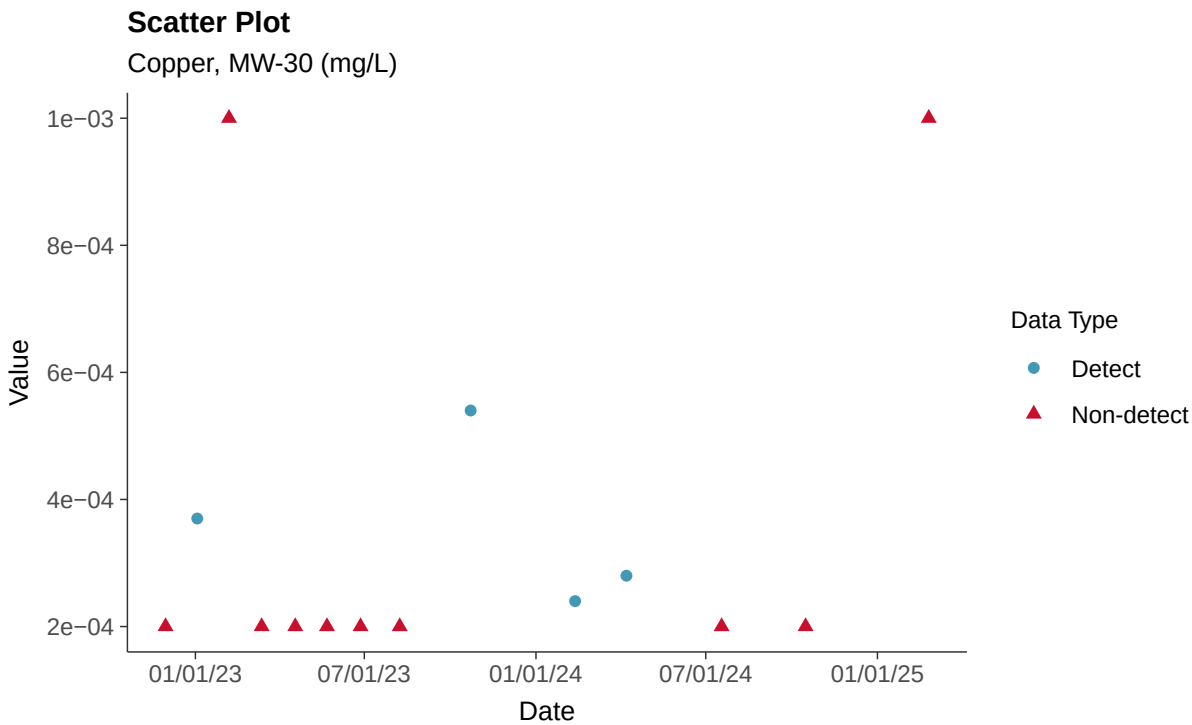


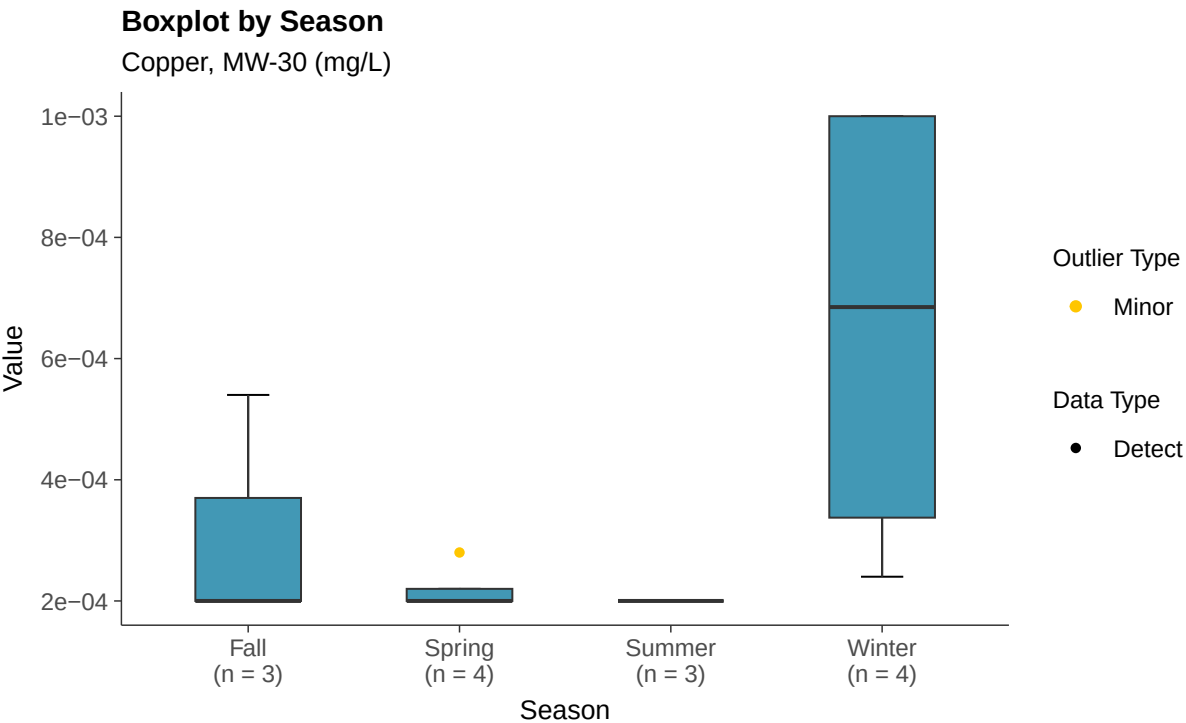
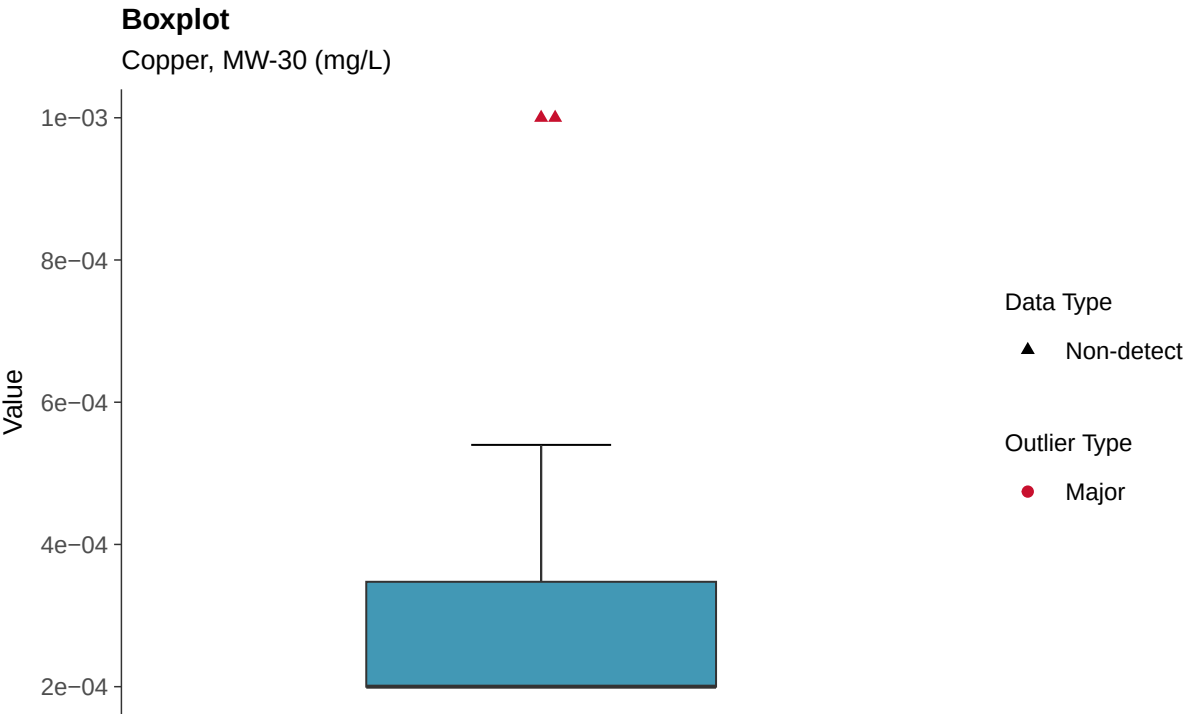




Part 115: Copper, MW-30

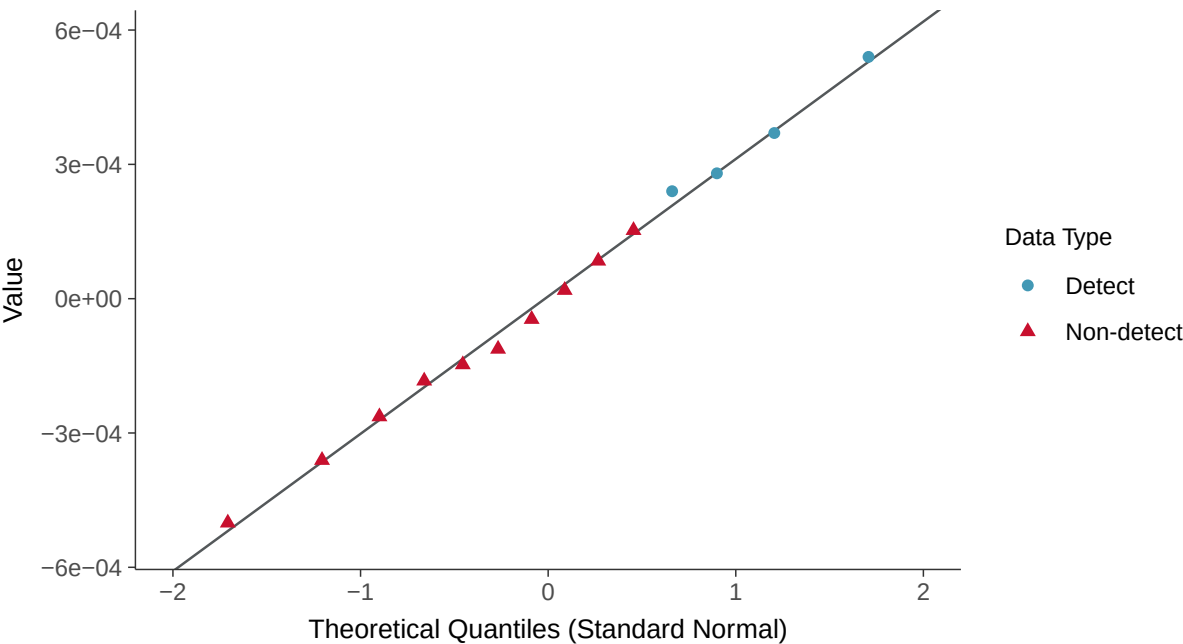
ID: 40_1_5_111



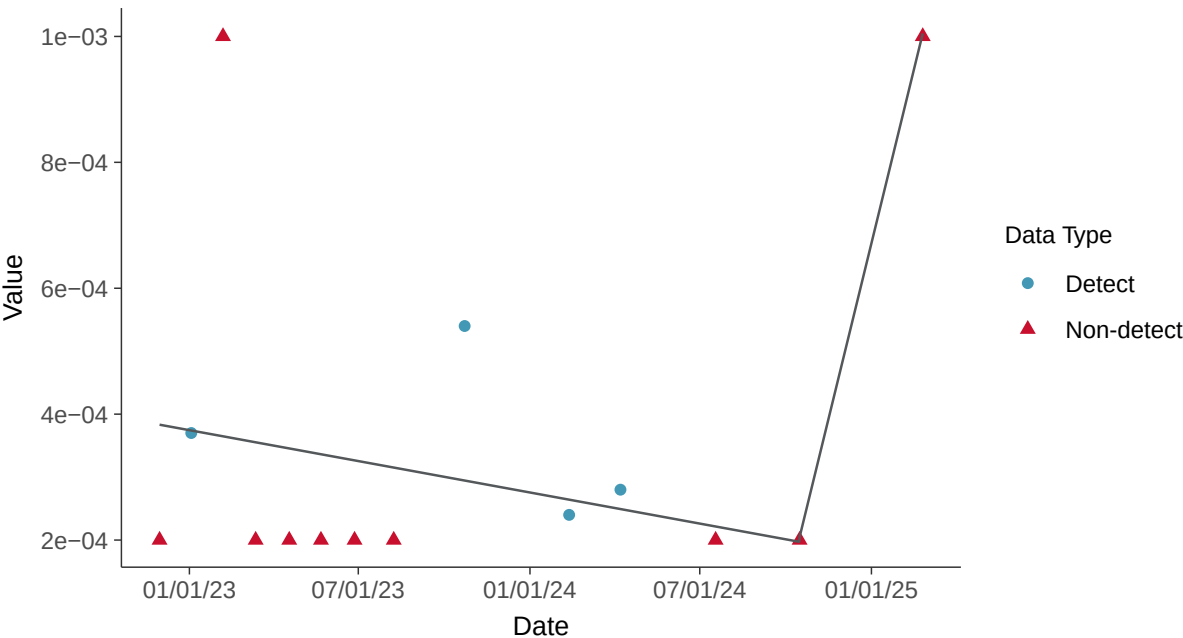




Normal Q-Q plot using ROS Imputed Estimates
Copper, MW-30 (mg/L)



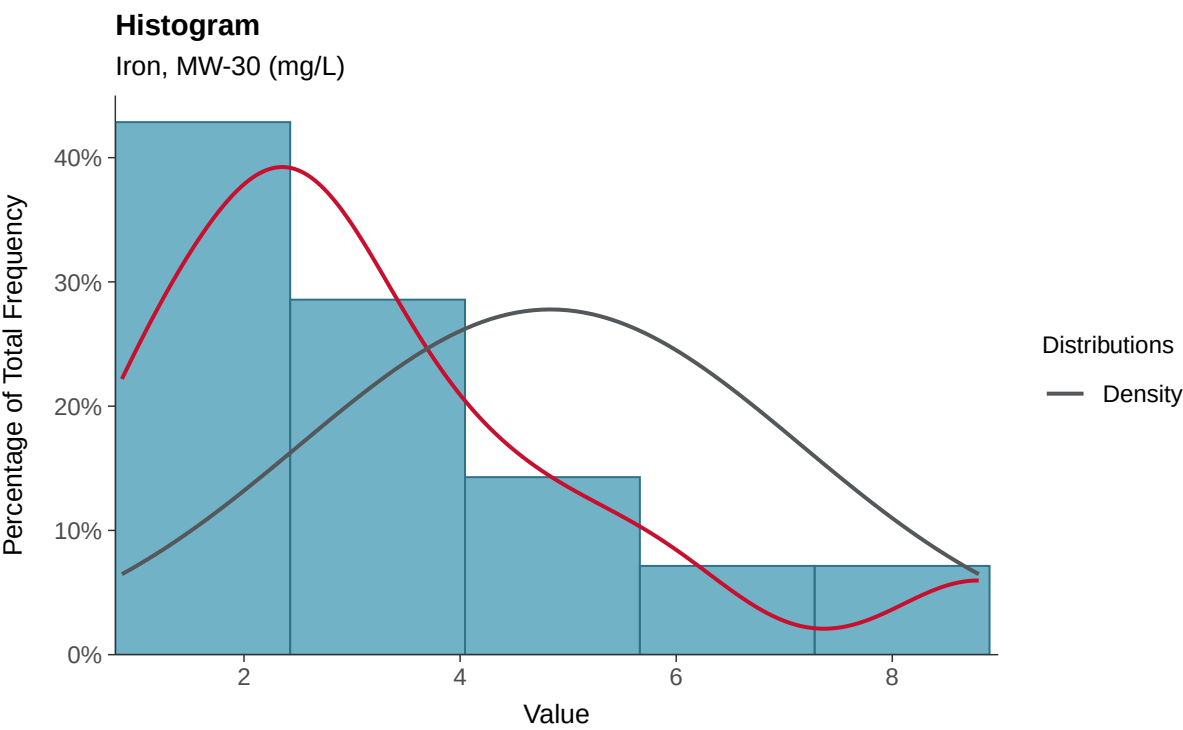
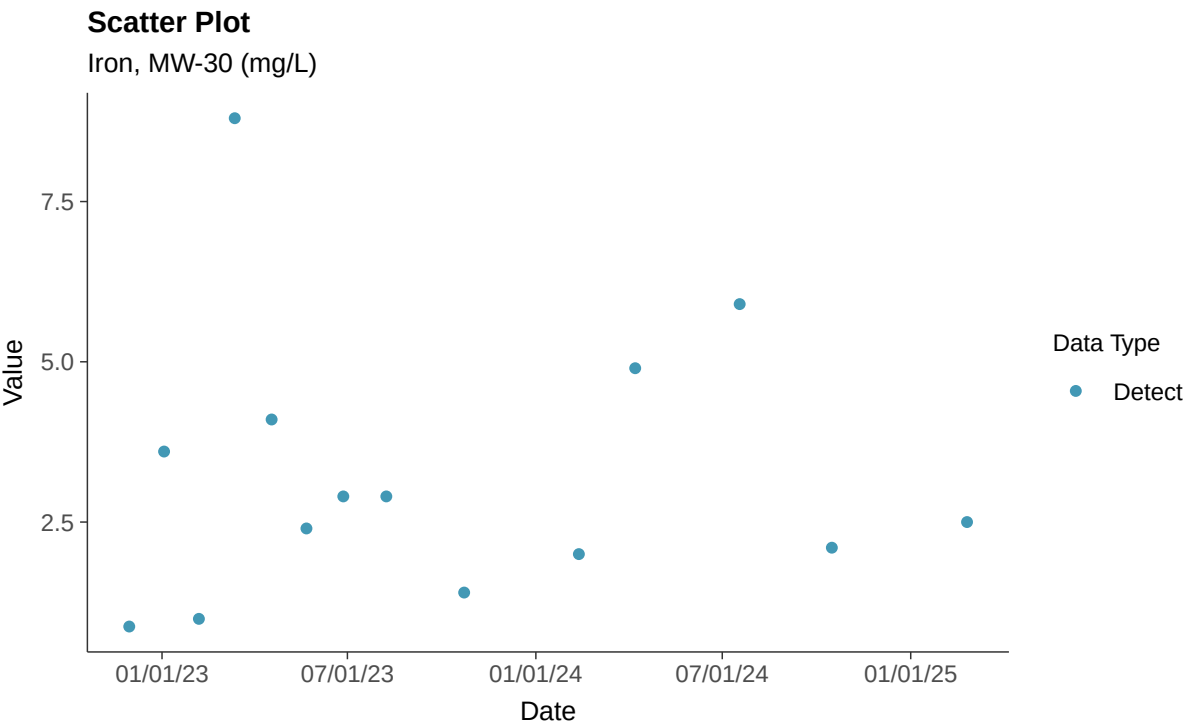
Trend Regression: Piecewise Linear-Linear
Copper, MW-30 (mg/L)

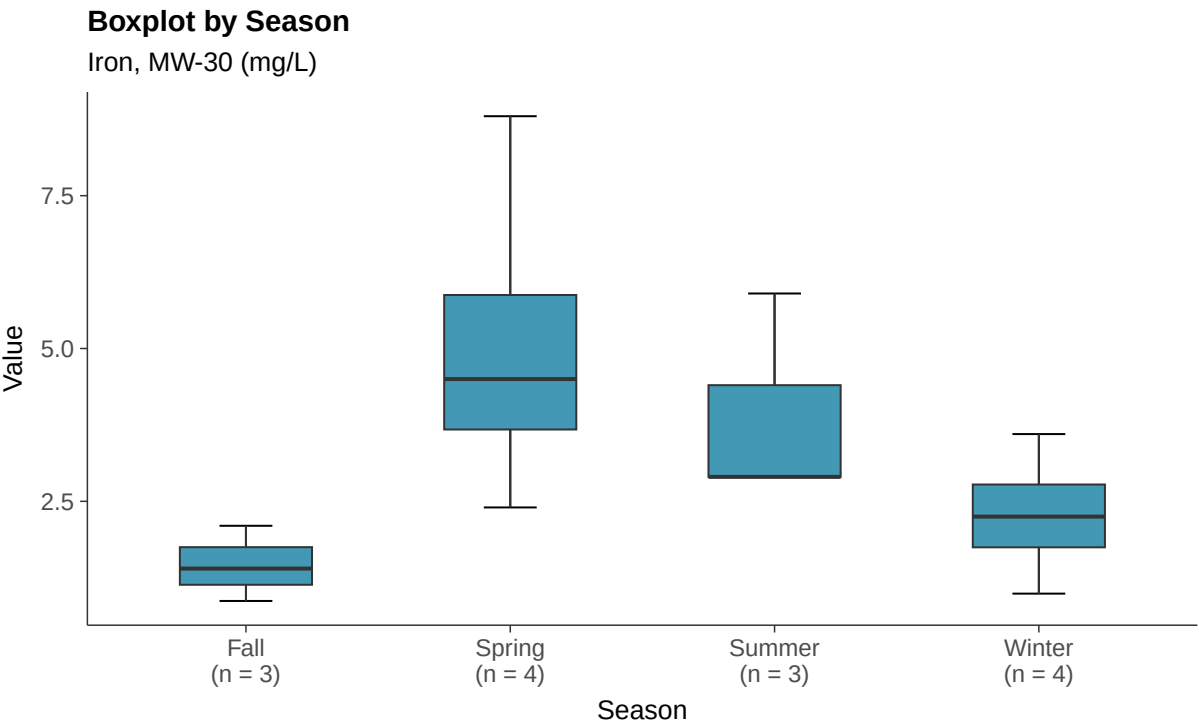
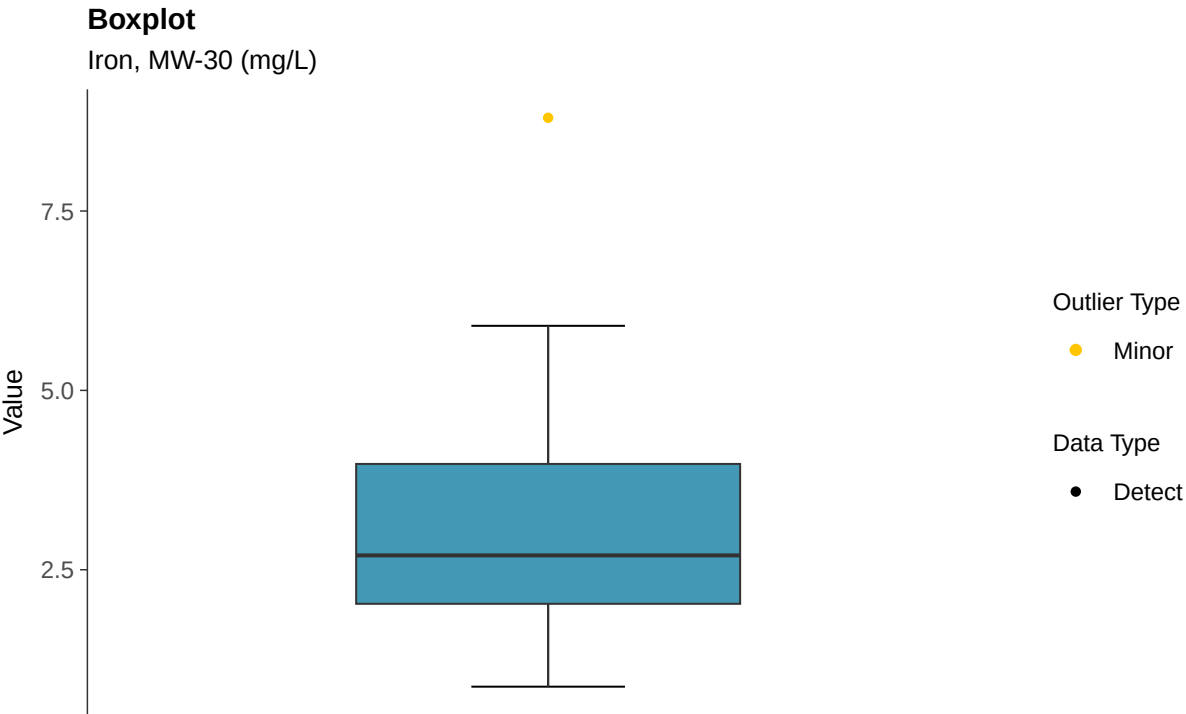


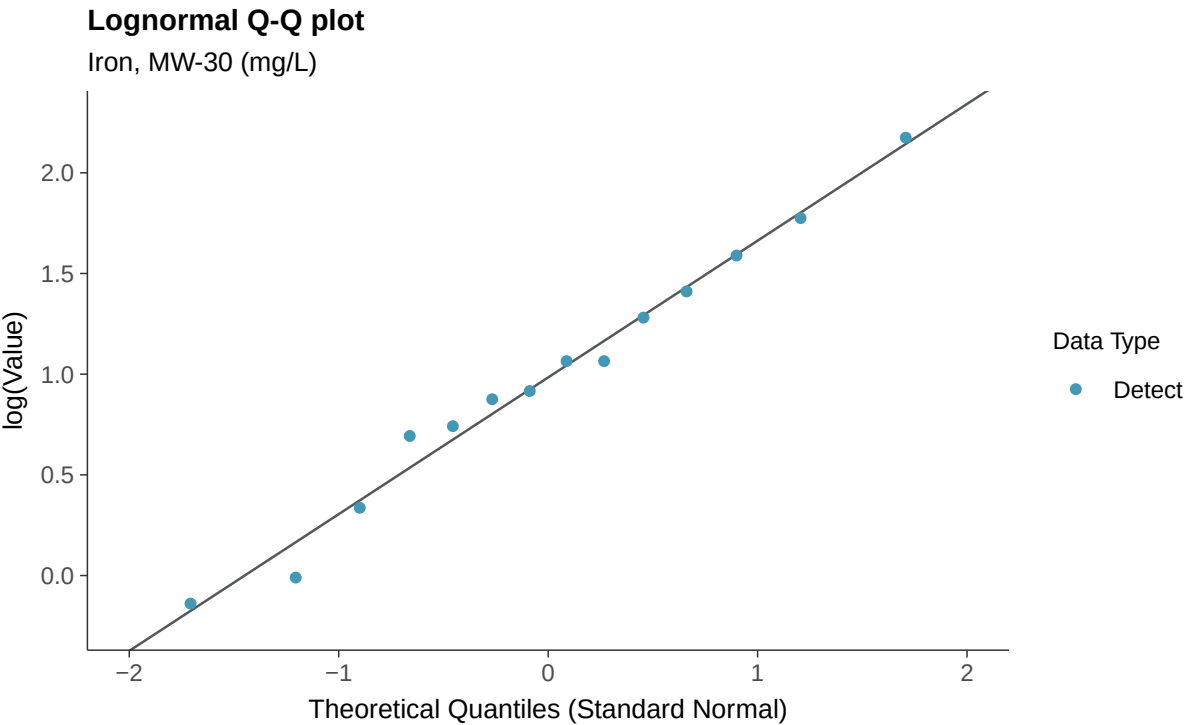
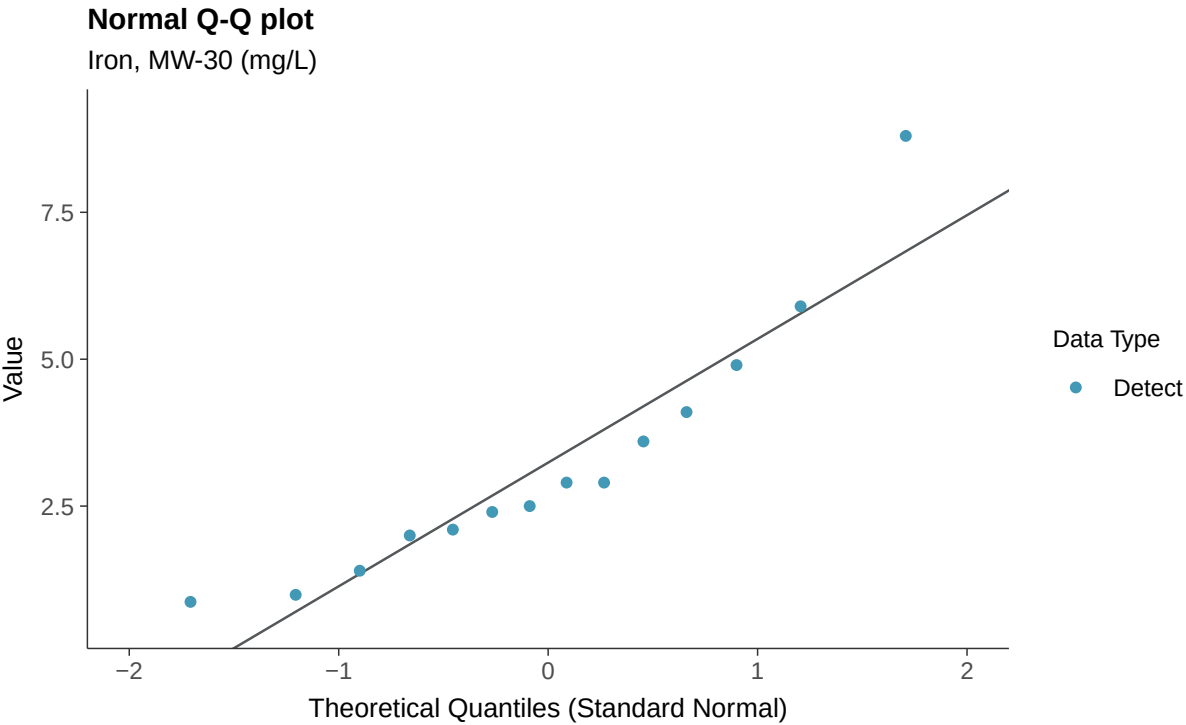


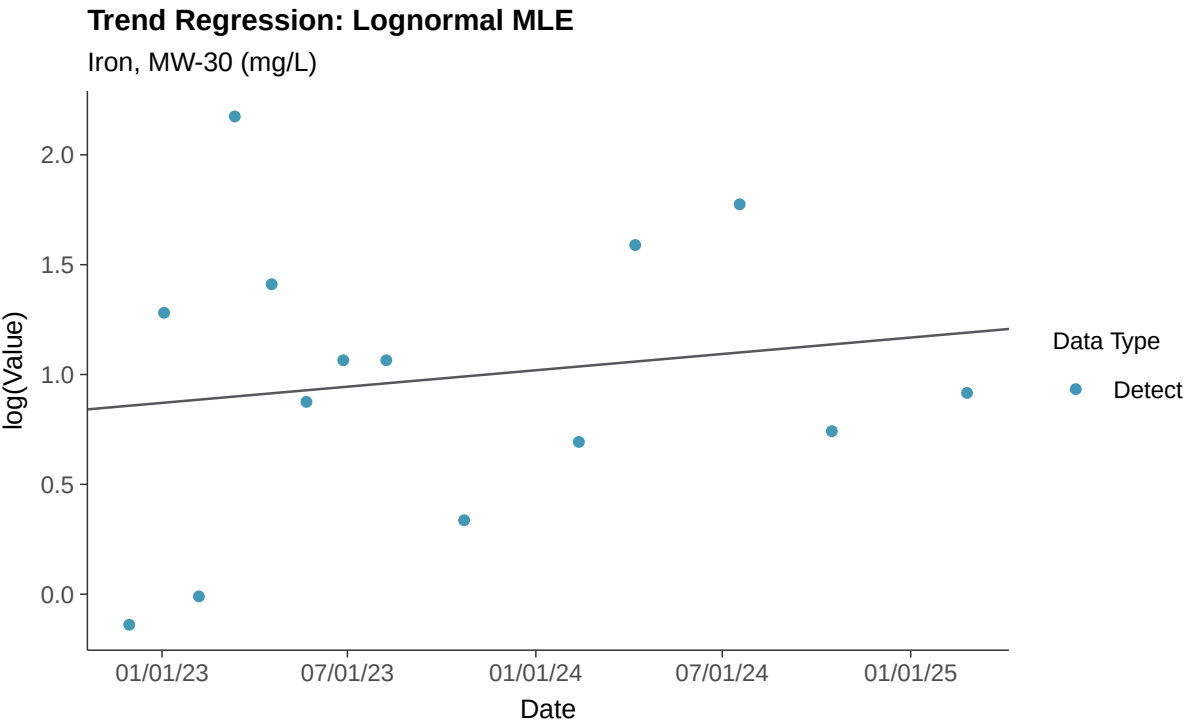
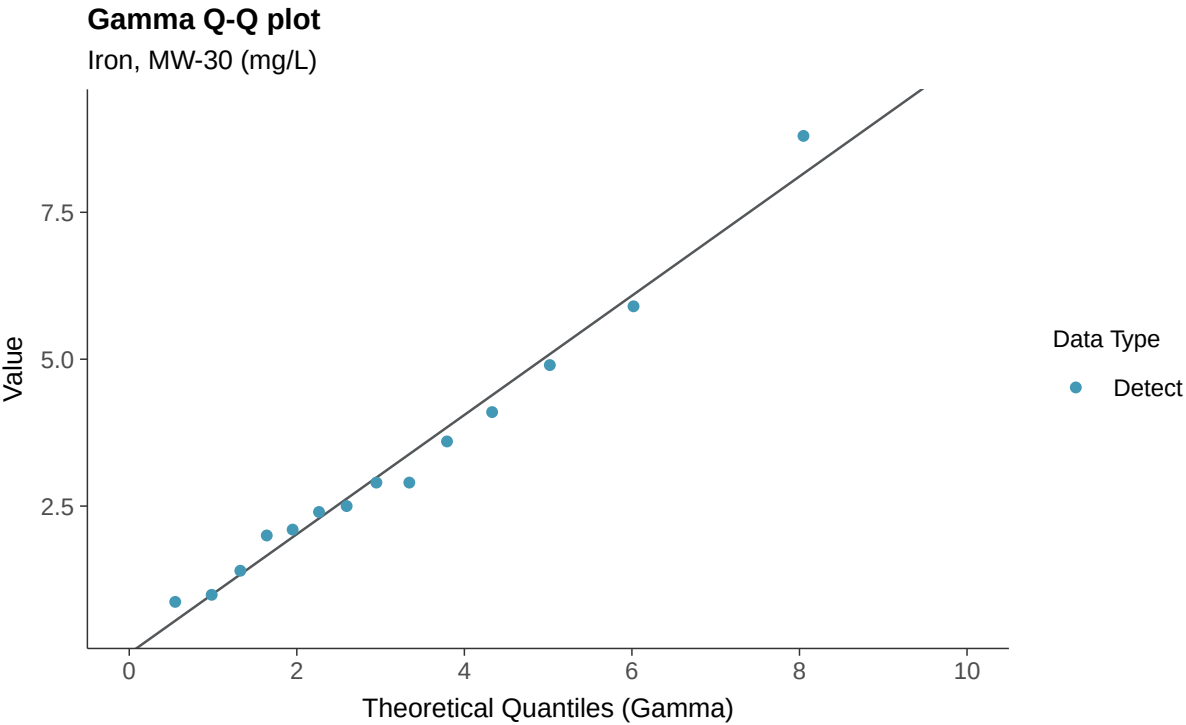
Part 115: Iron, MW-30

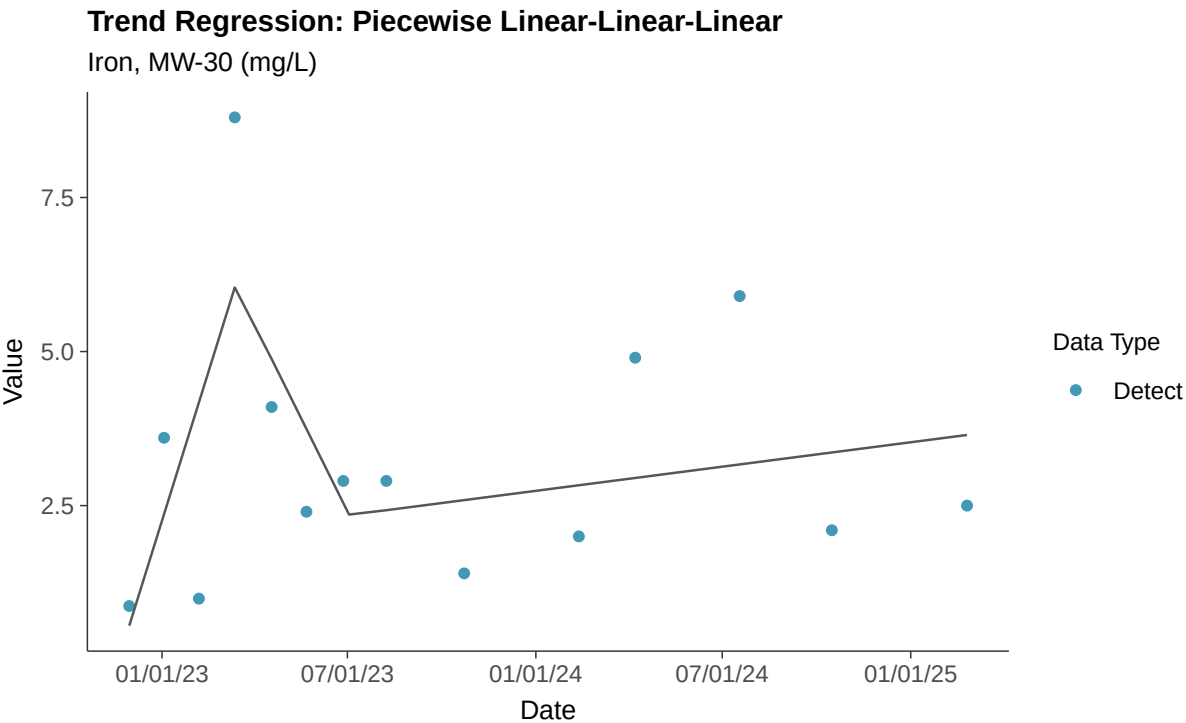
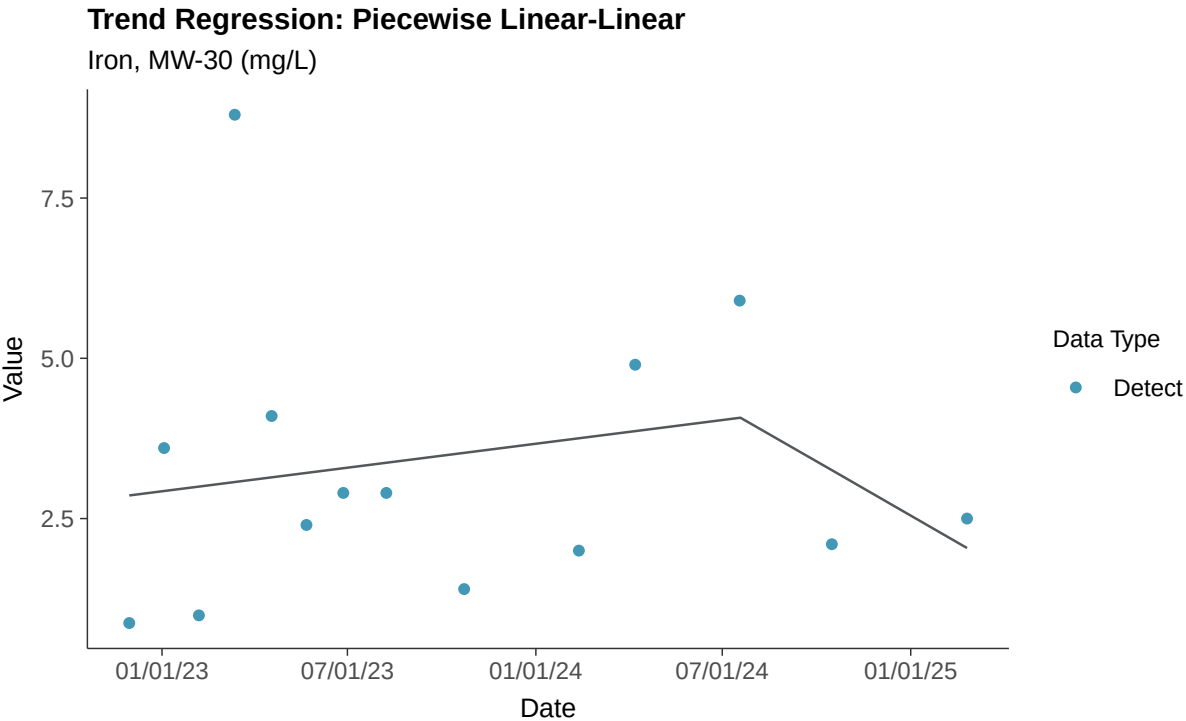
ID: 40_1_5_114







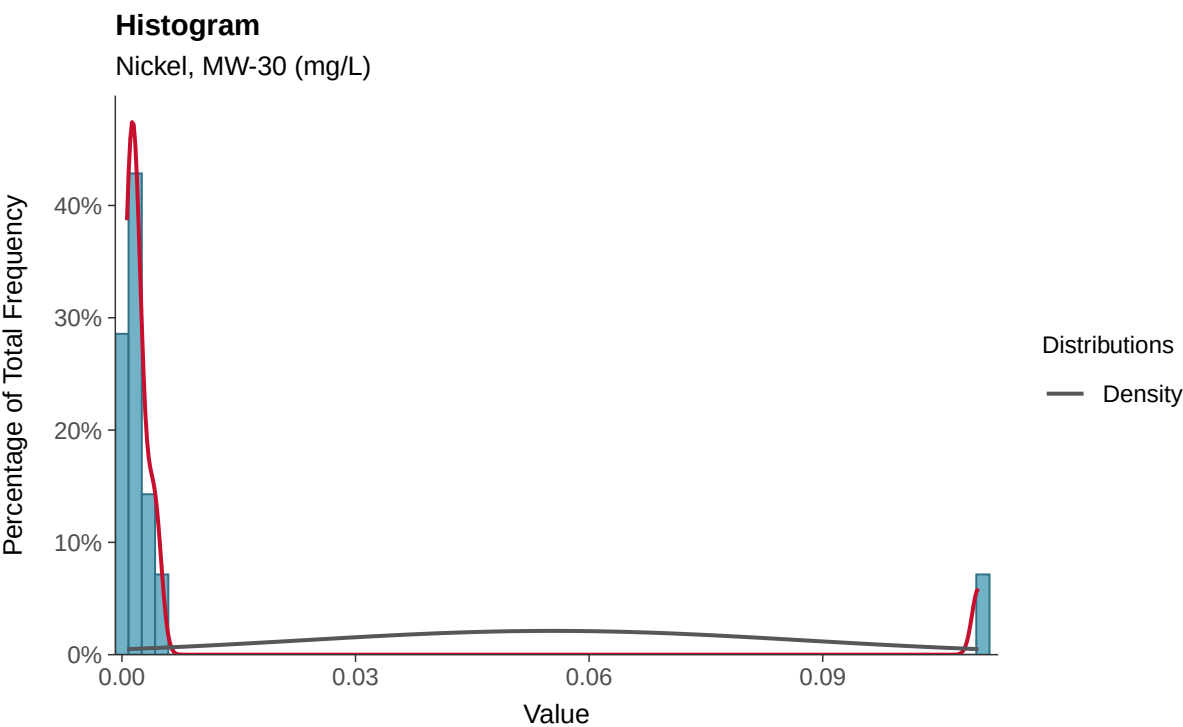
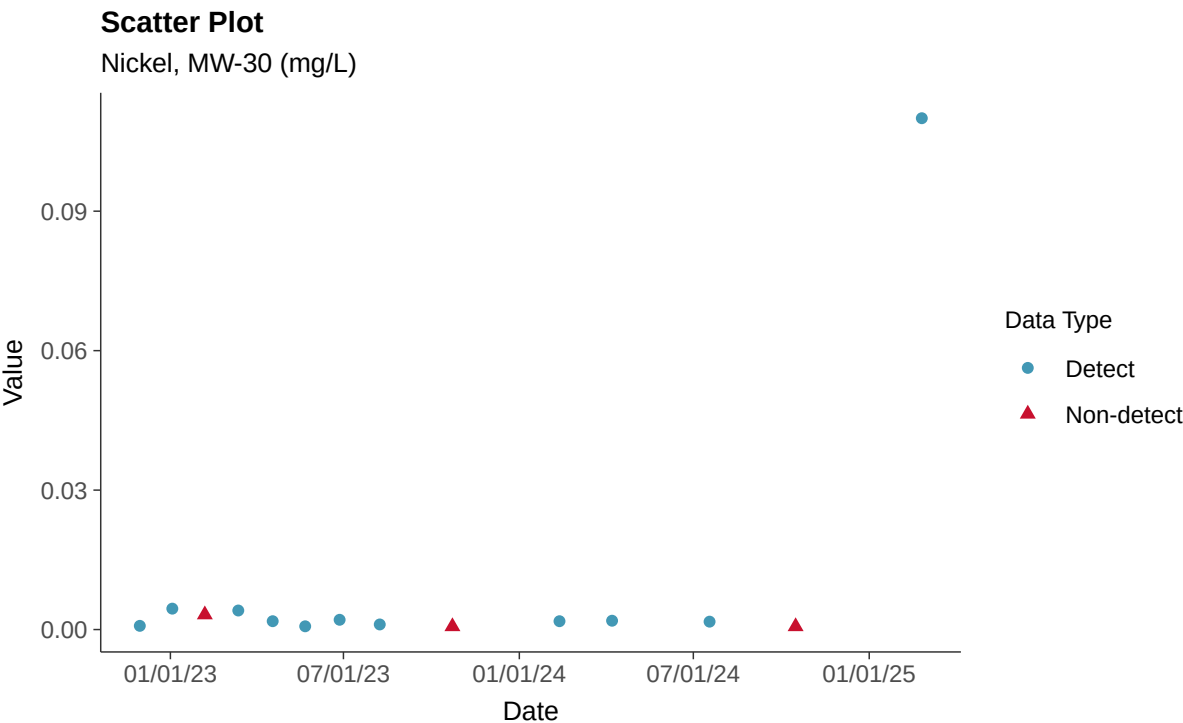


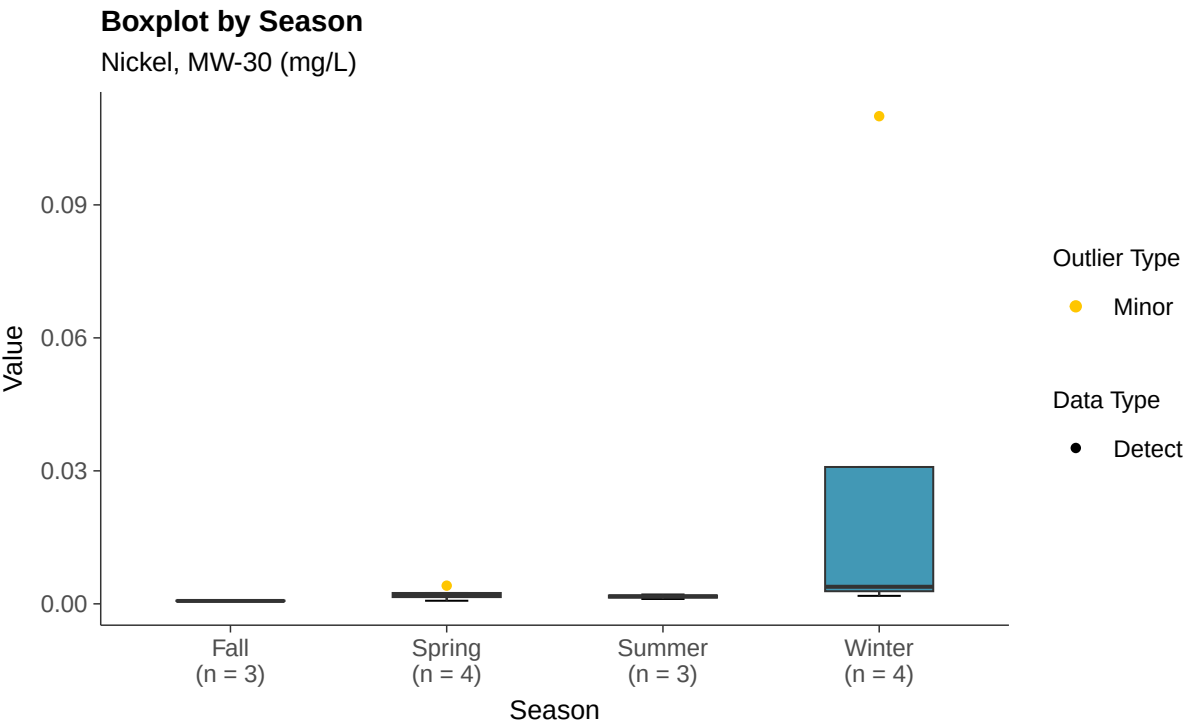
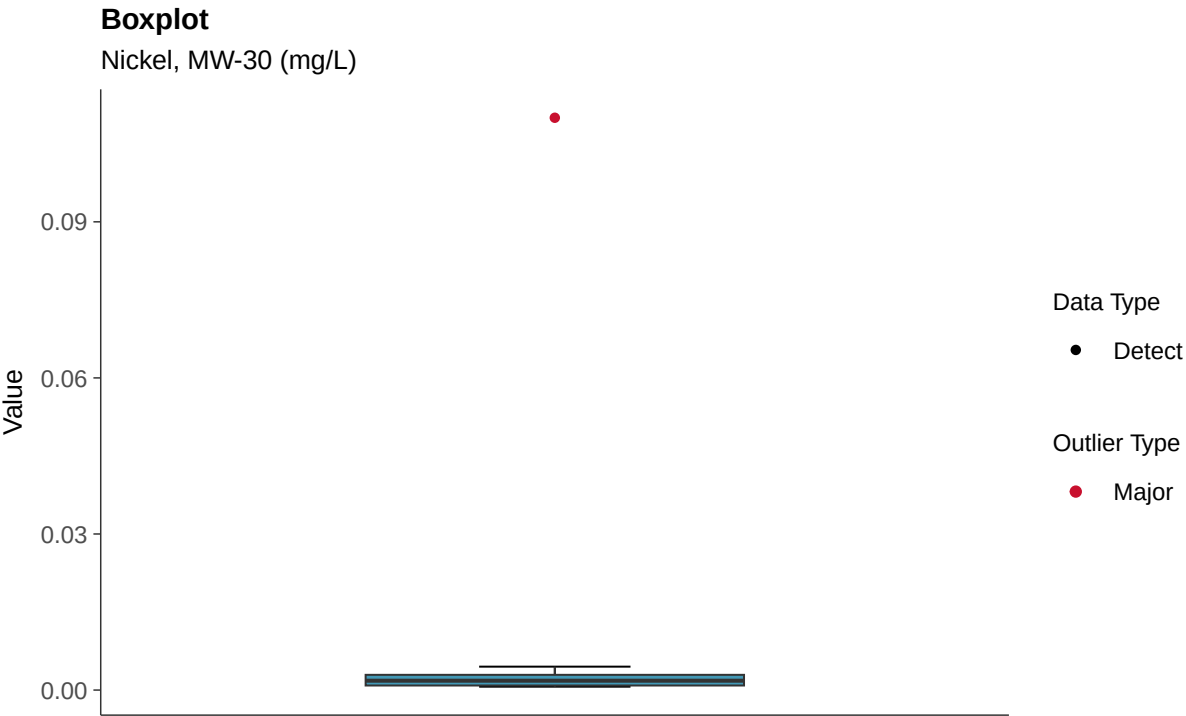


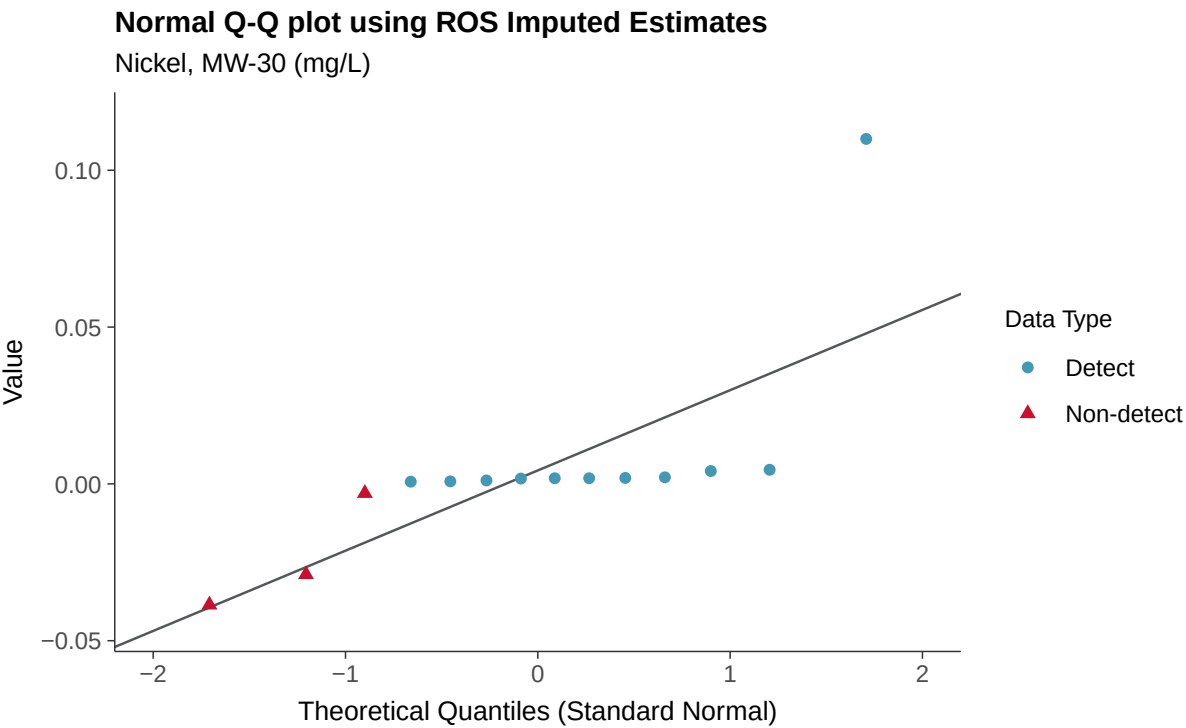


Part 115: Nickel, MW-30

ID: 40_1_5_119



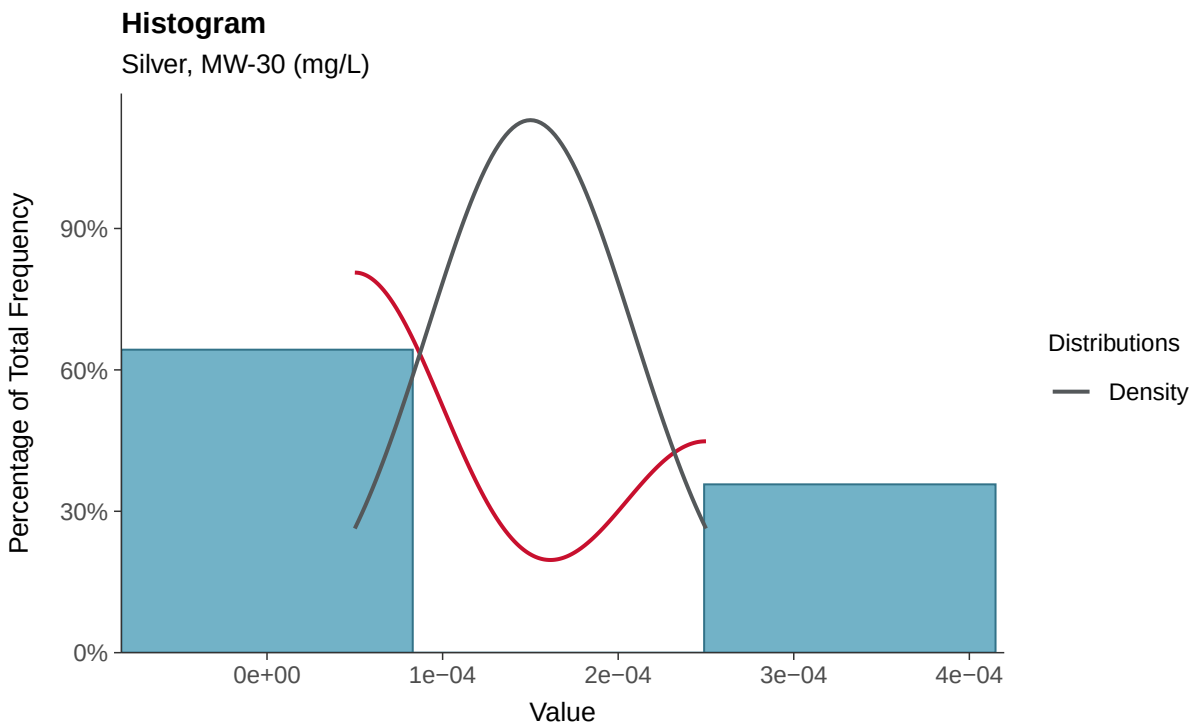
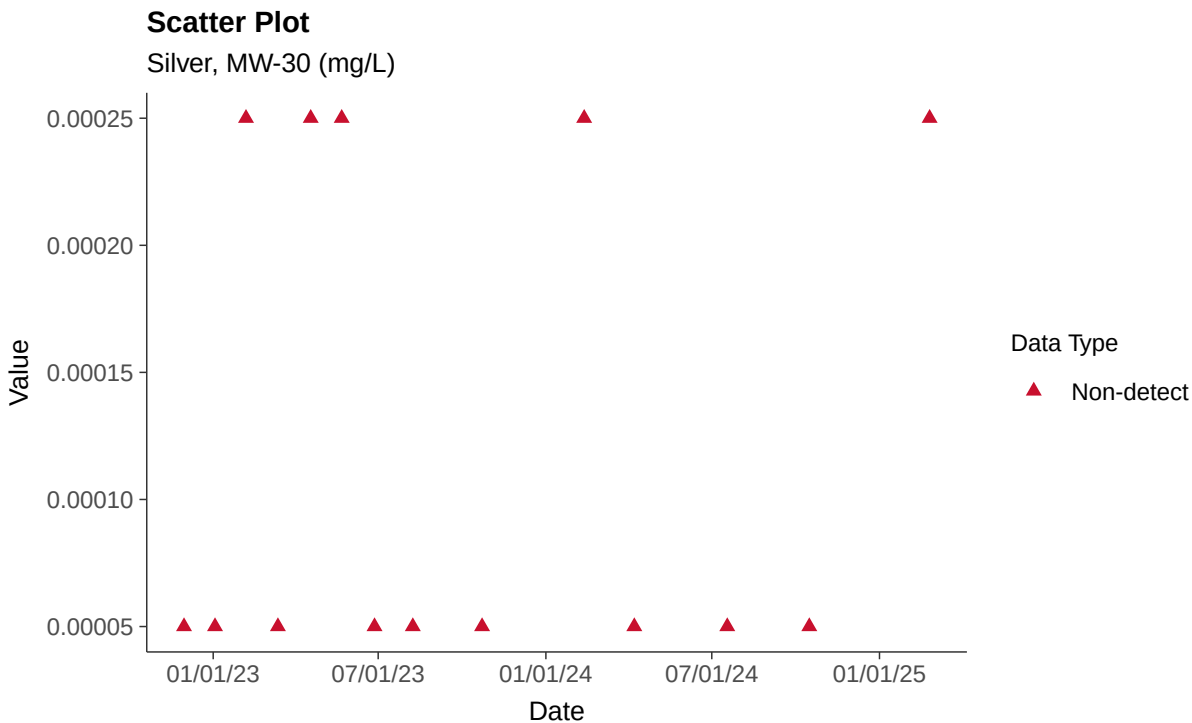


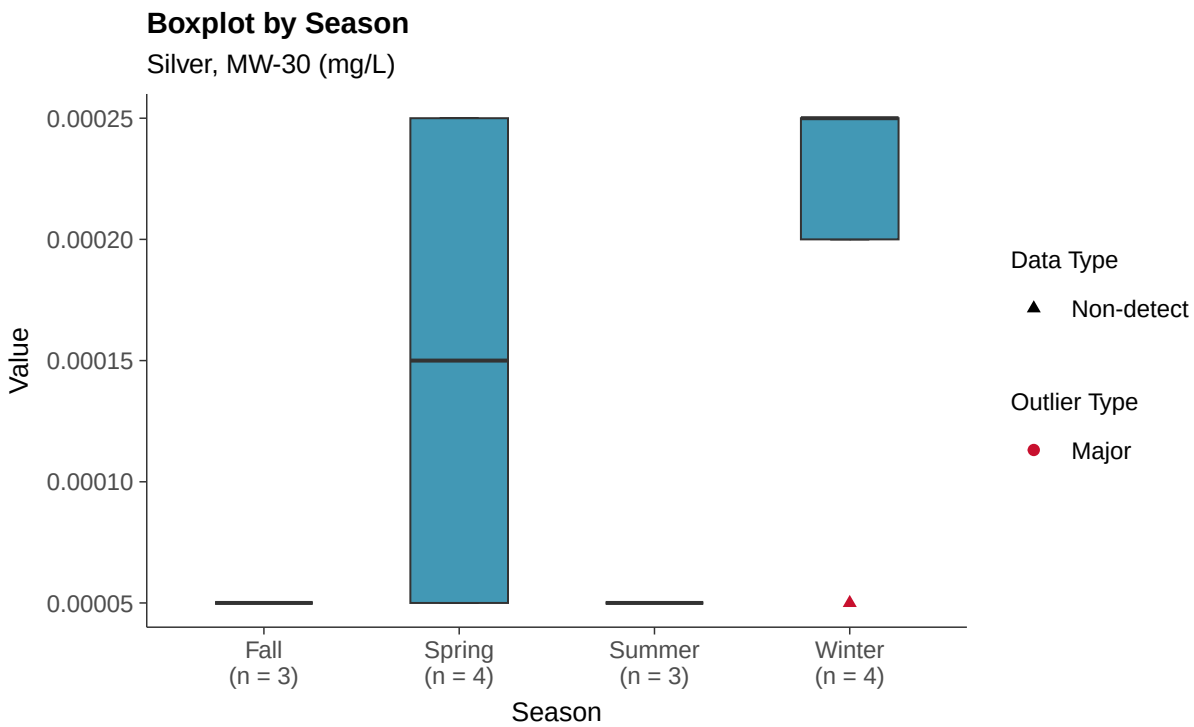
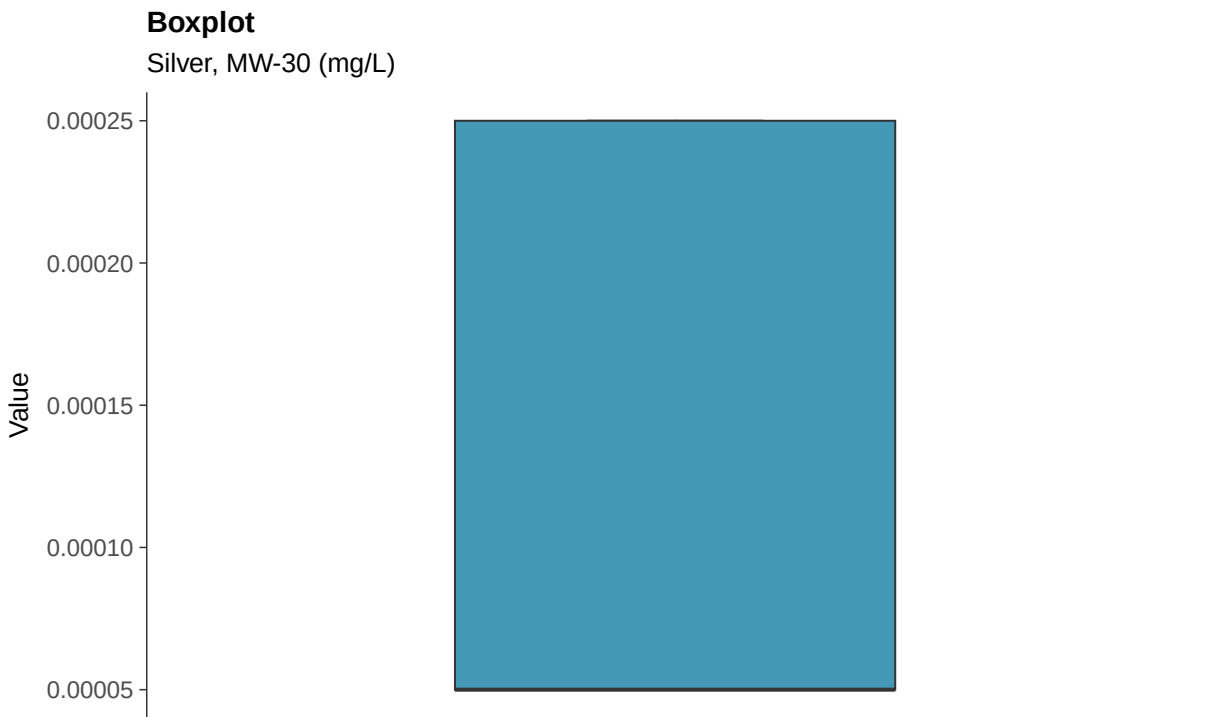


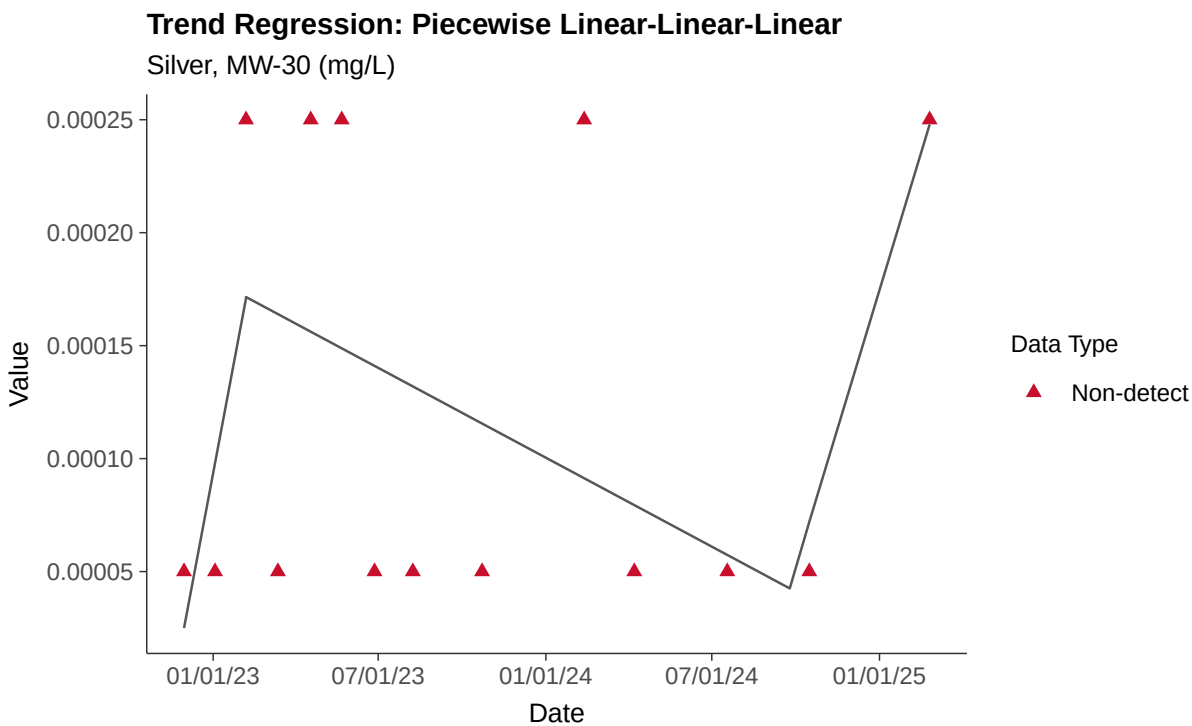


Part 115: Silver, MW-30

ID: 40_1_5_123



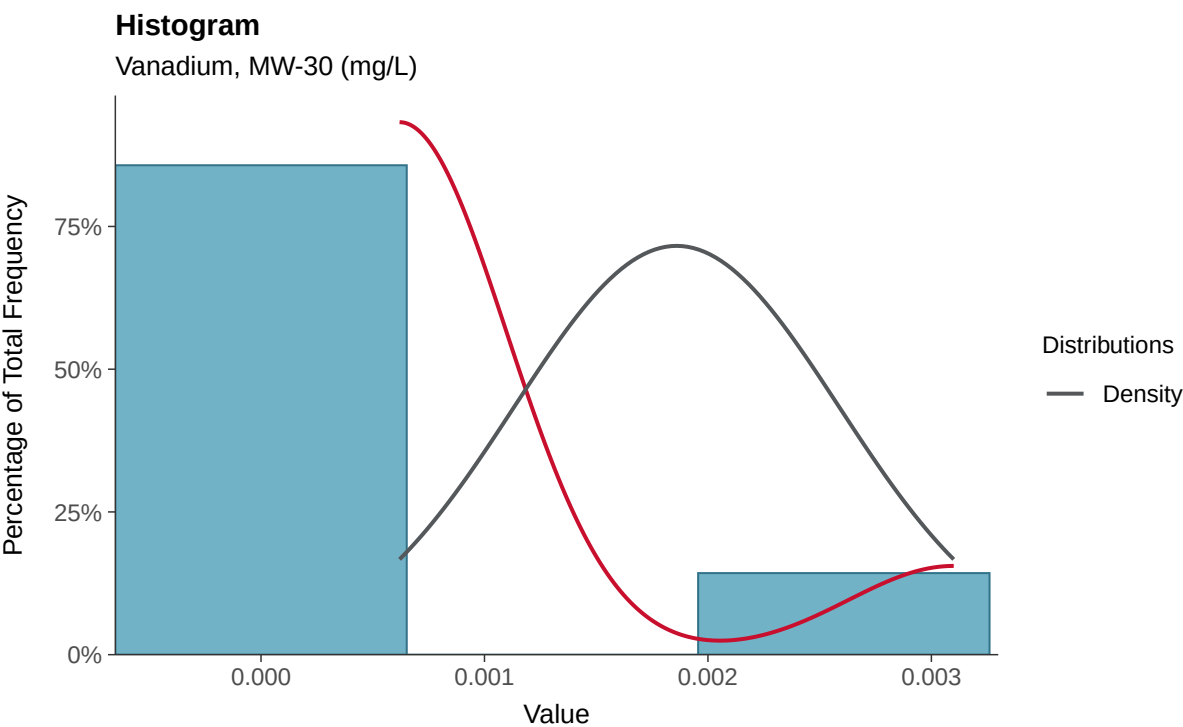
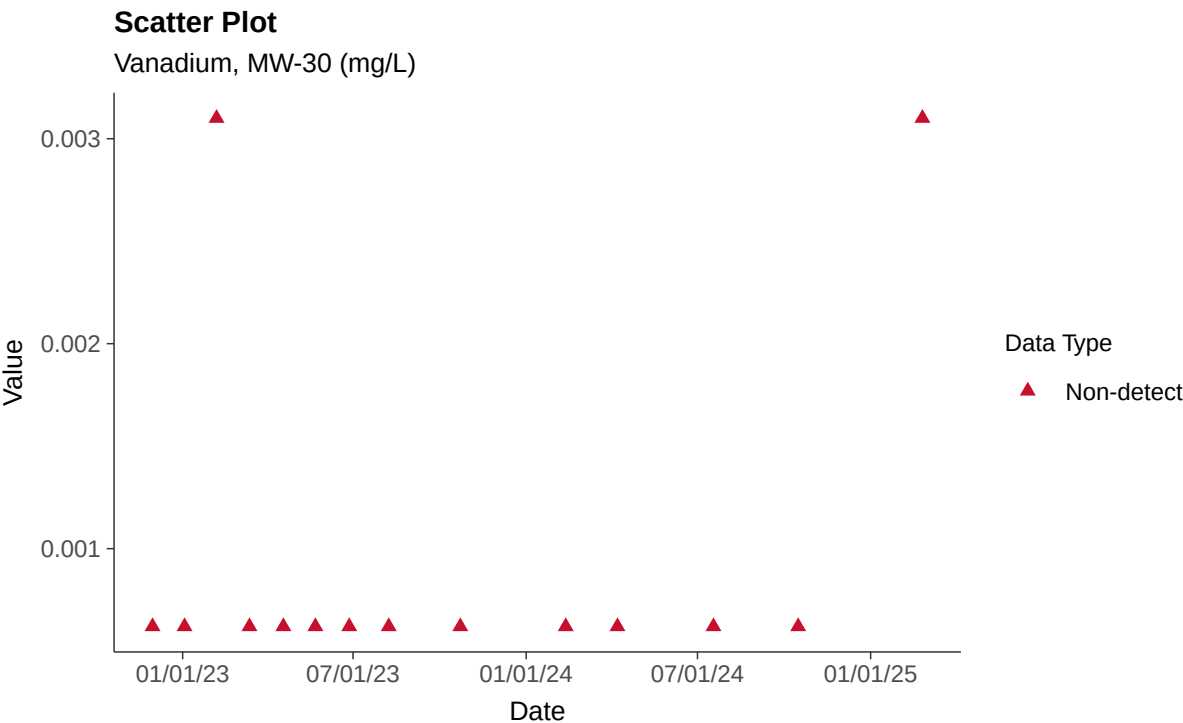


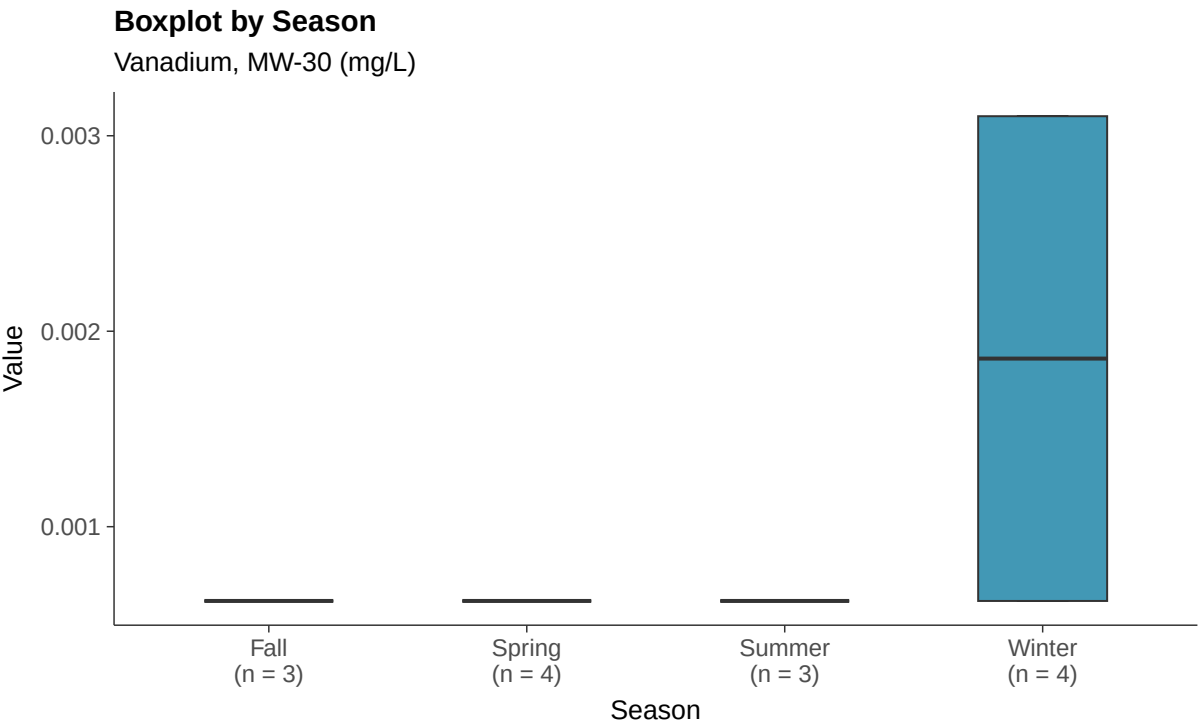


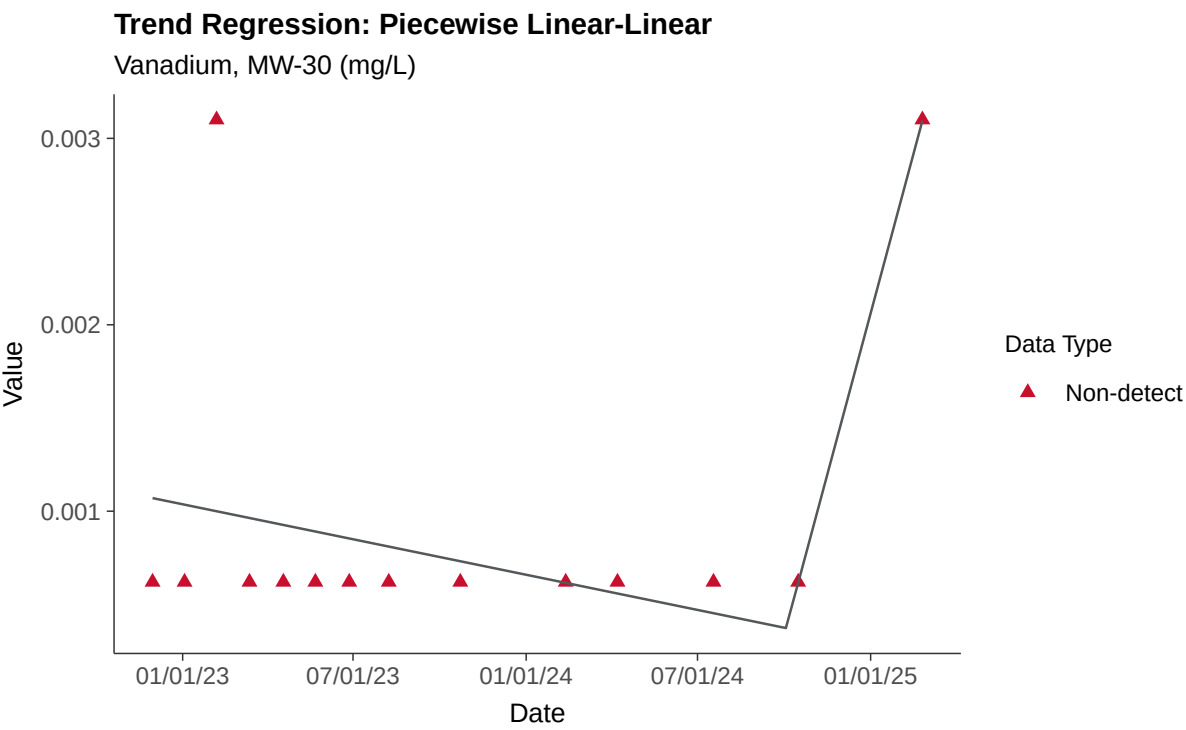


Part 115: Vanadium, MW-30

ID: 40_1_5_128



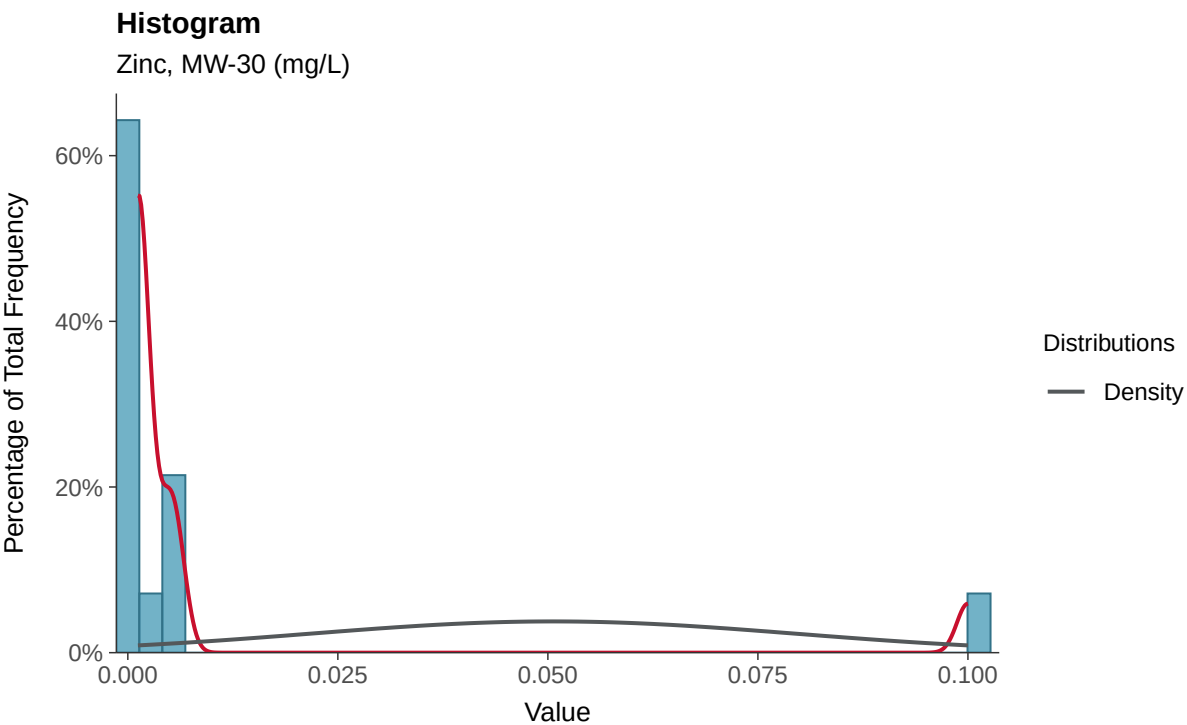
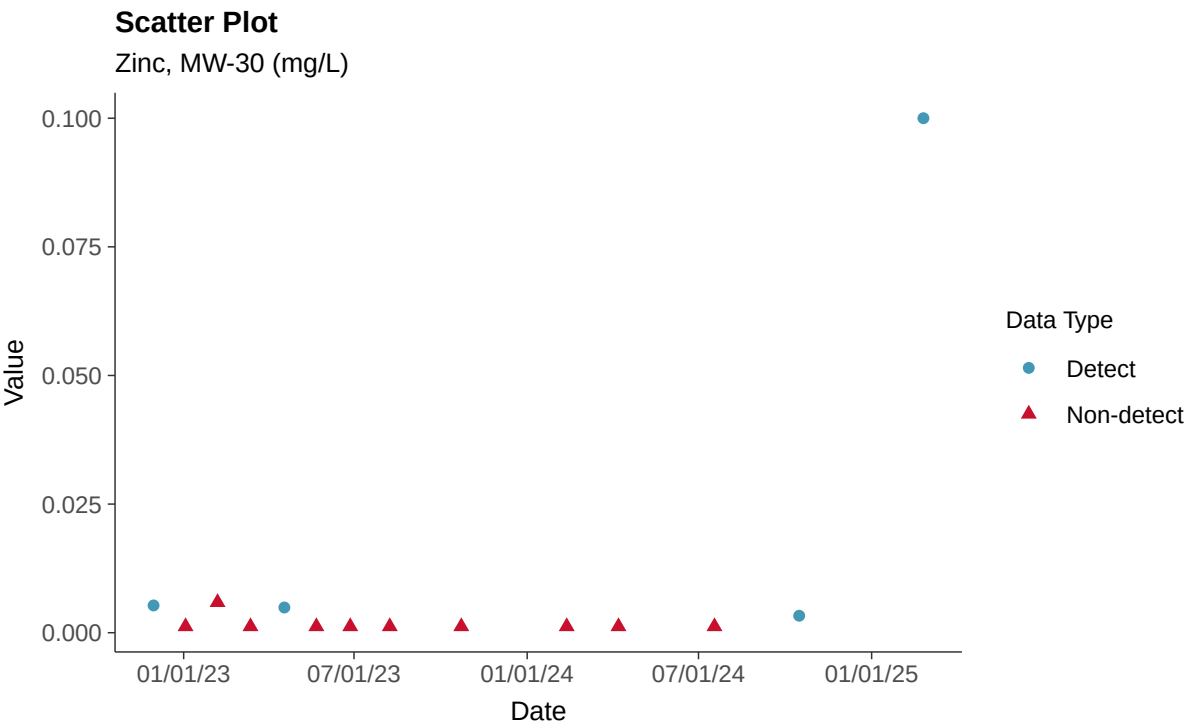


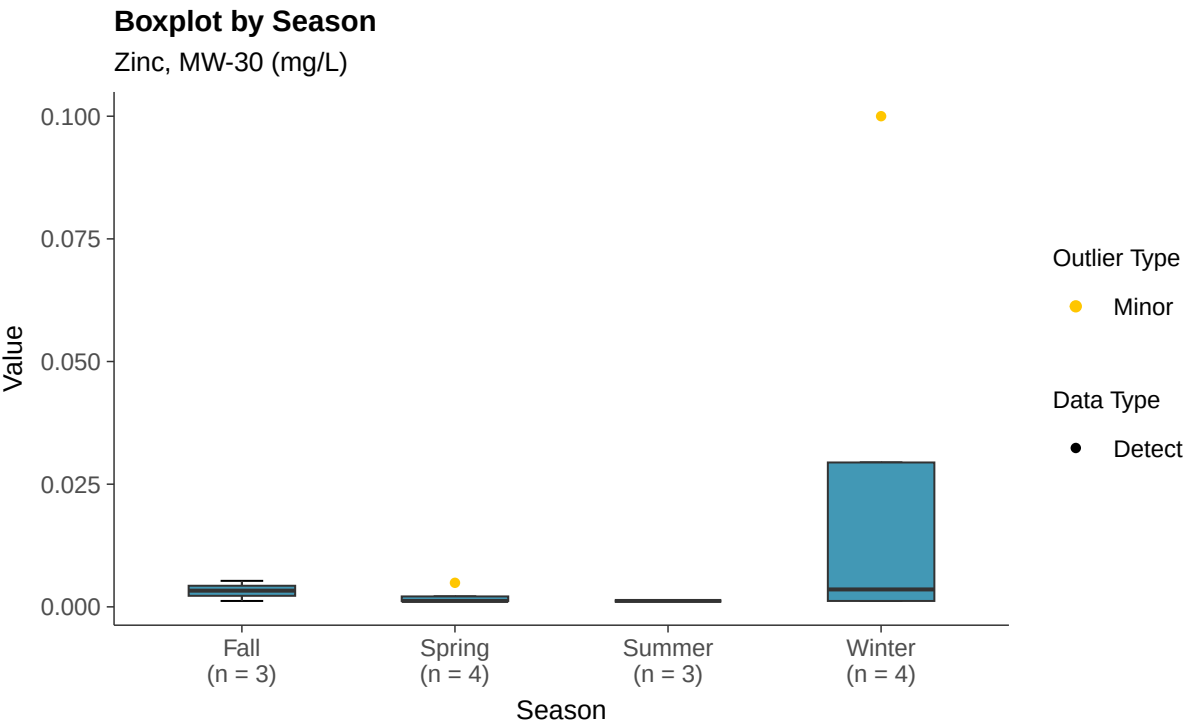
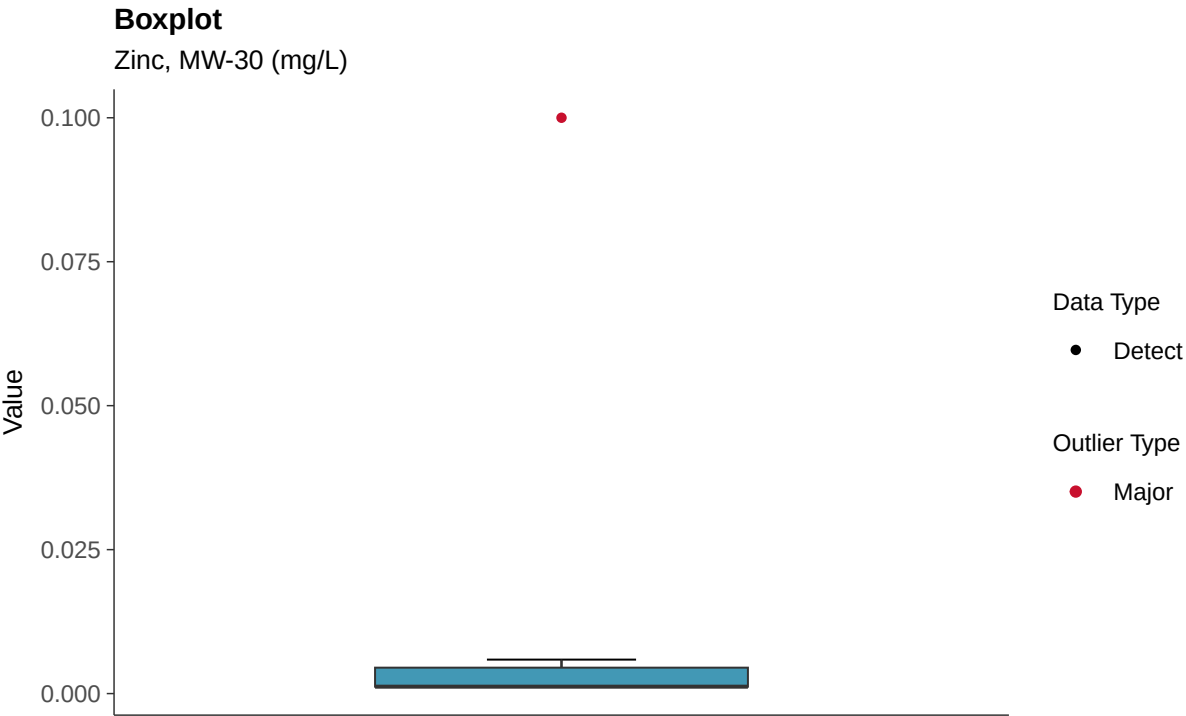


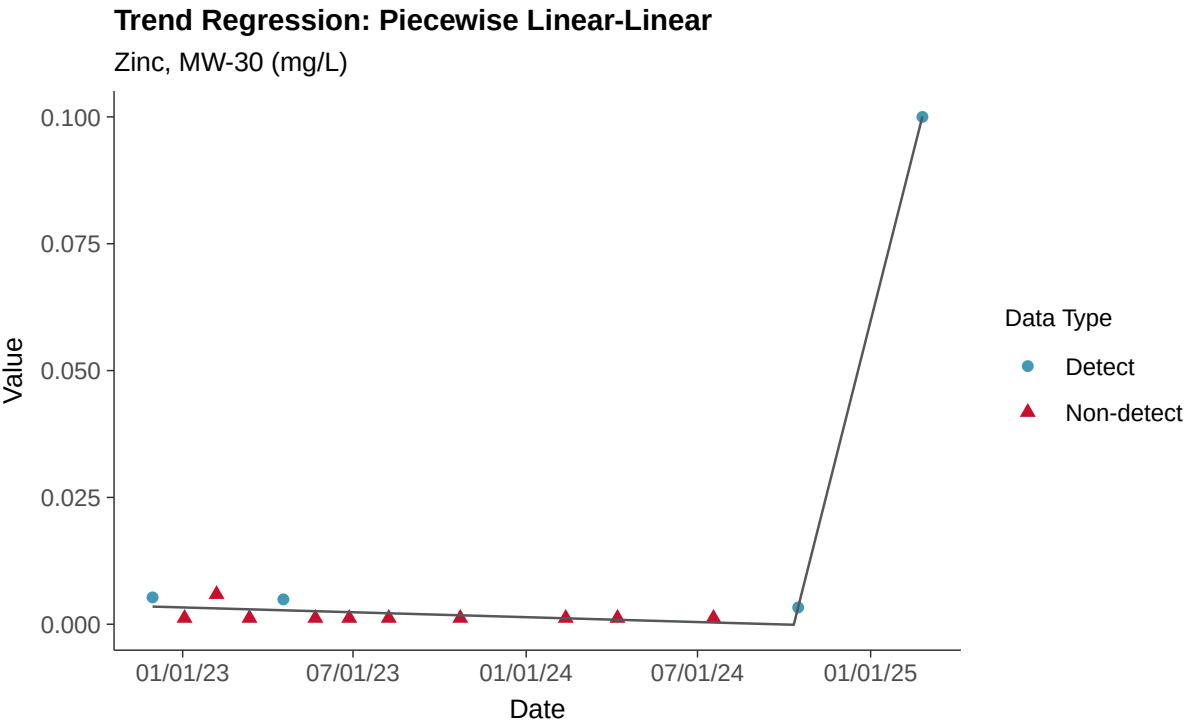
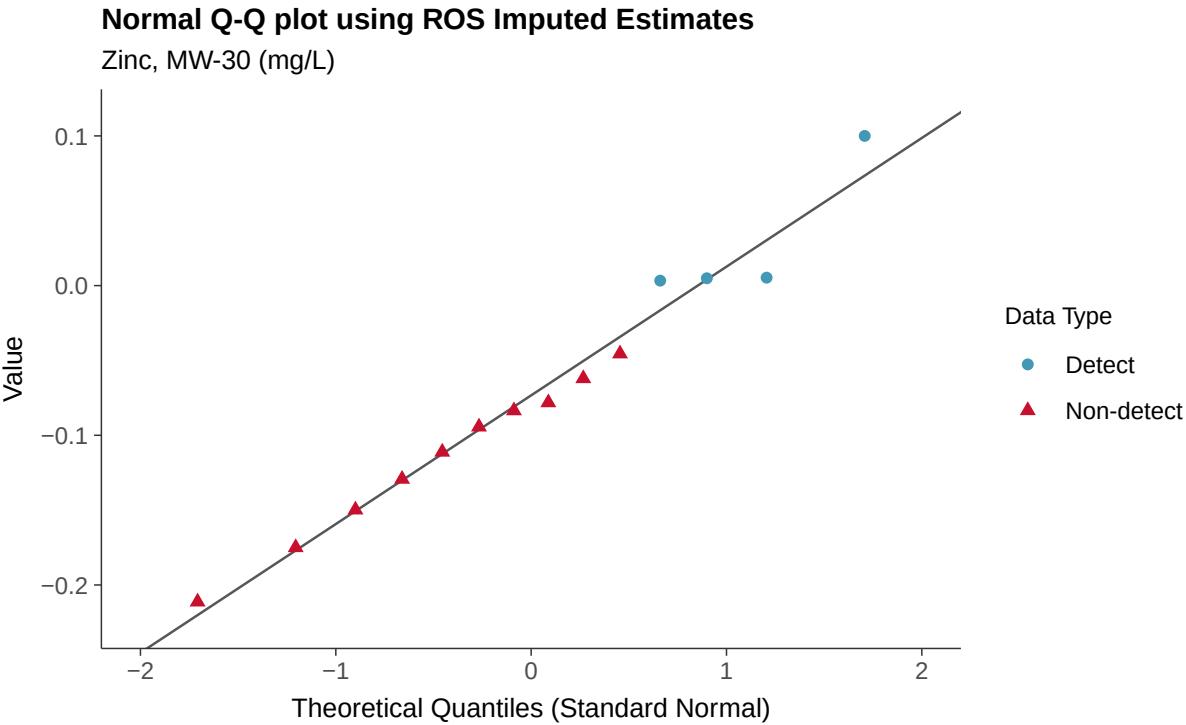


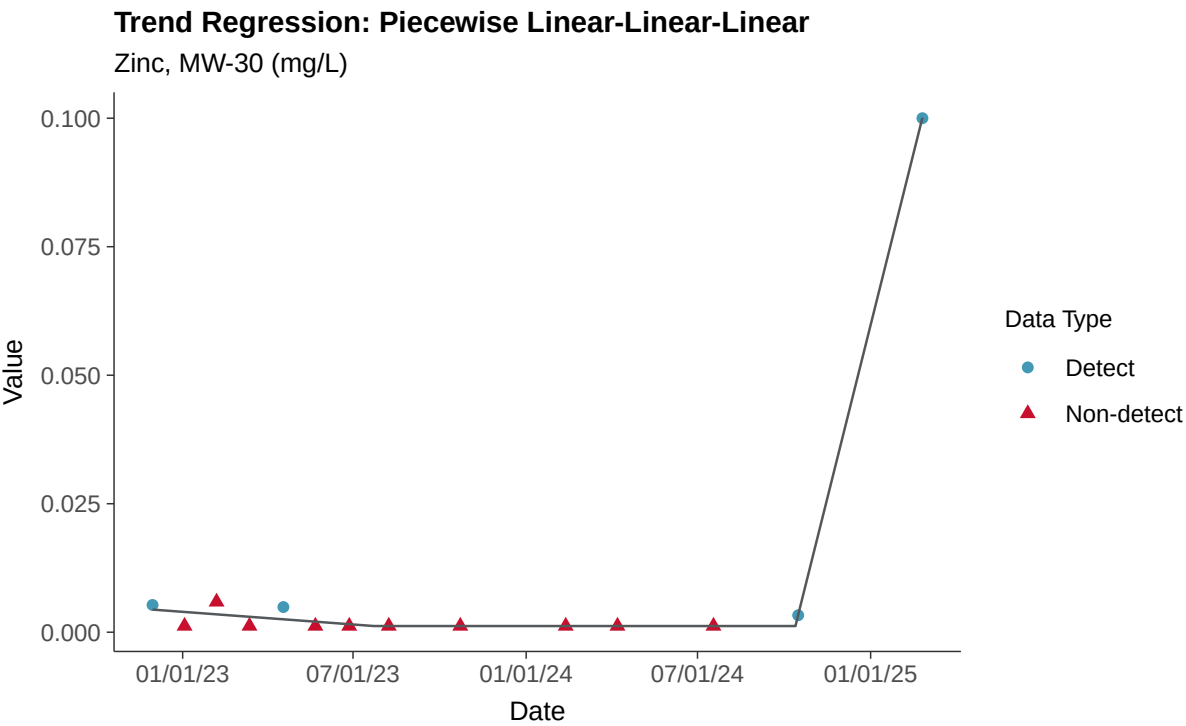
Part 115: Zinc, MW-30

ID: 40_1_5_129





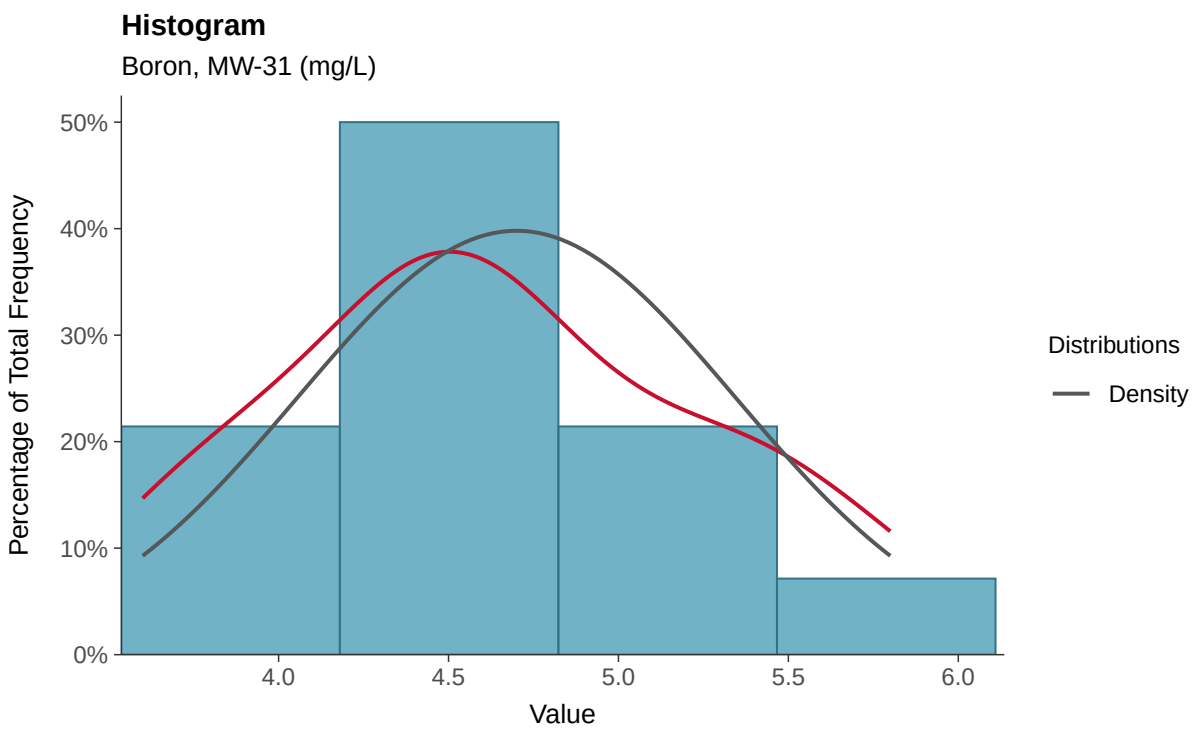
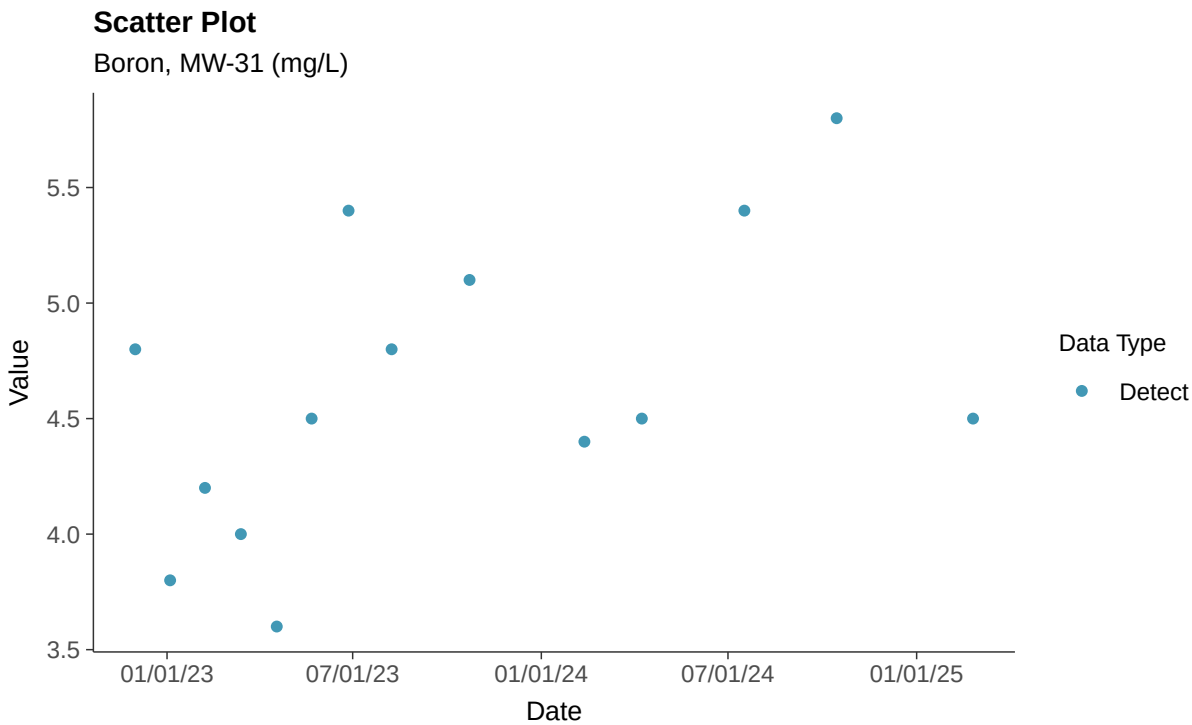


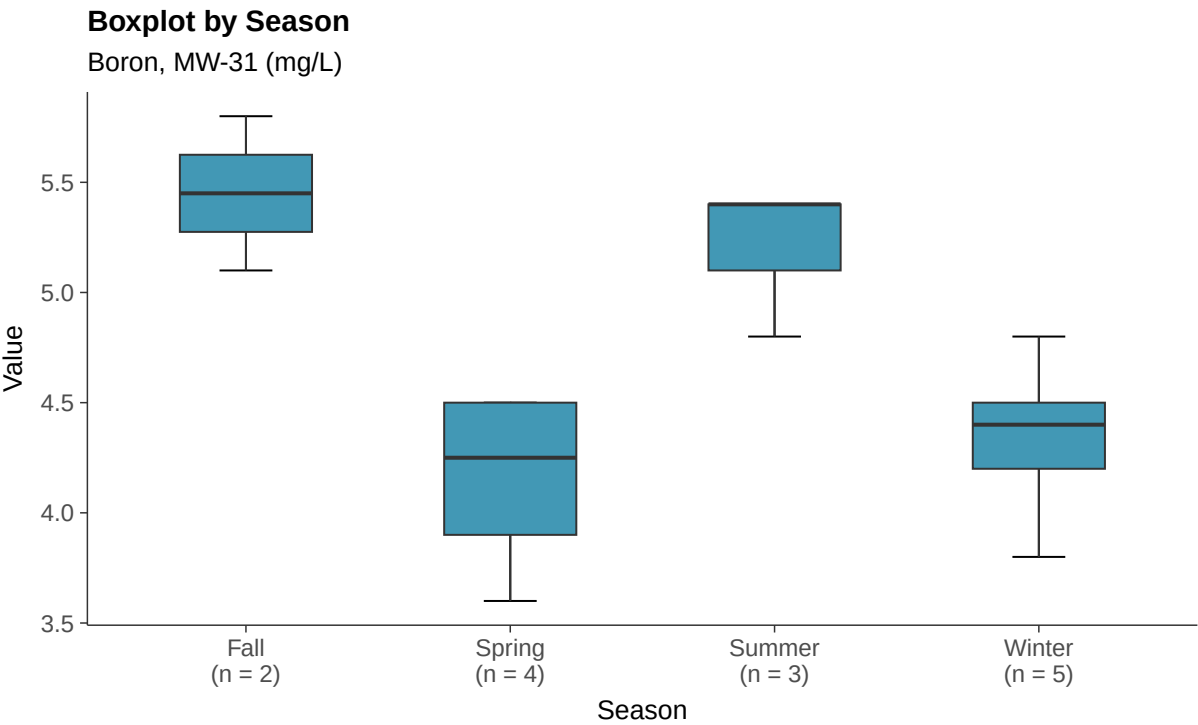
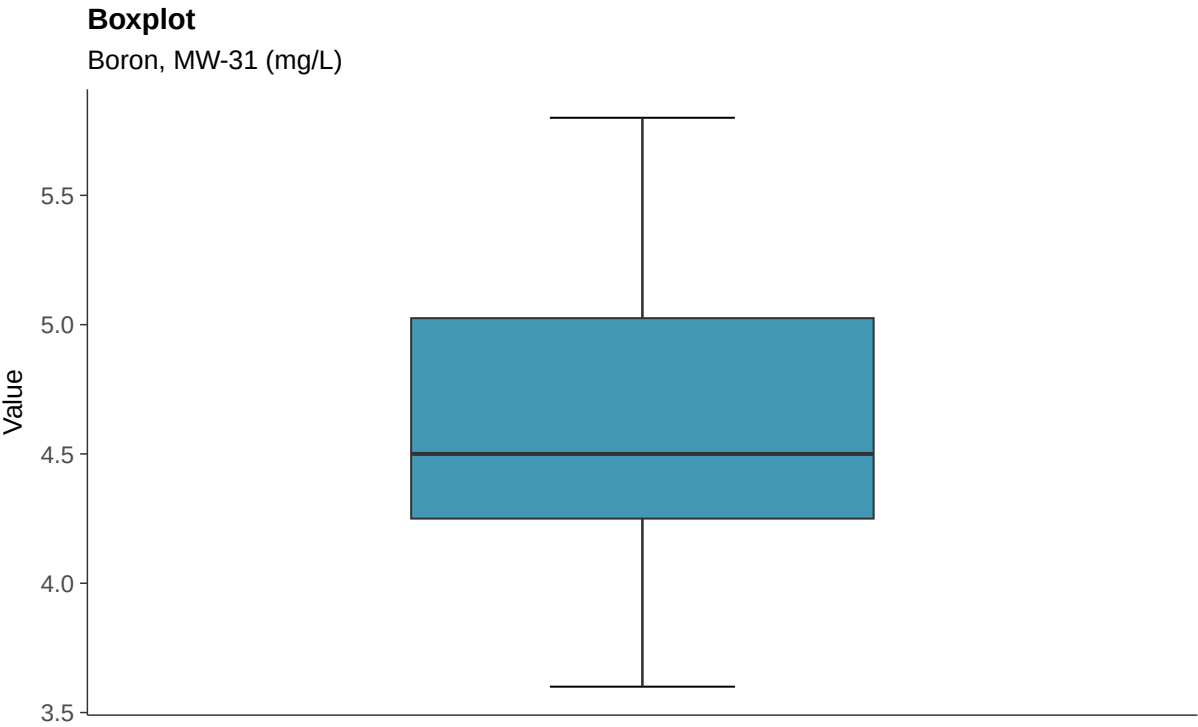


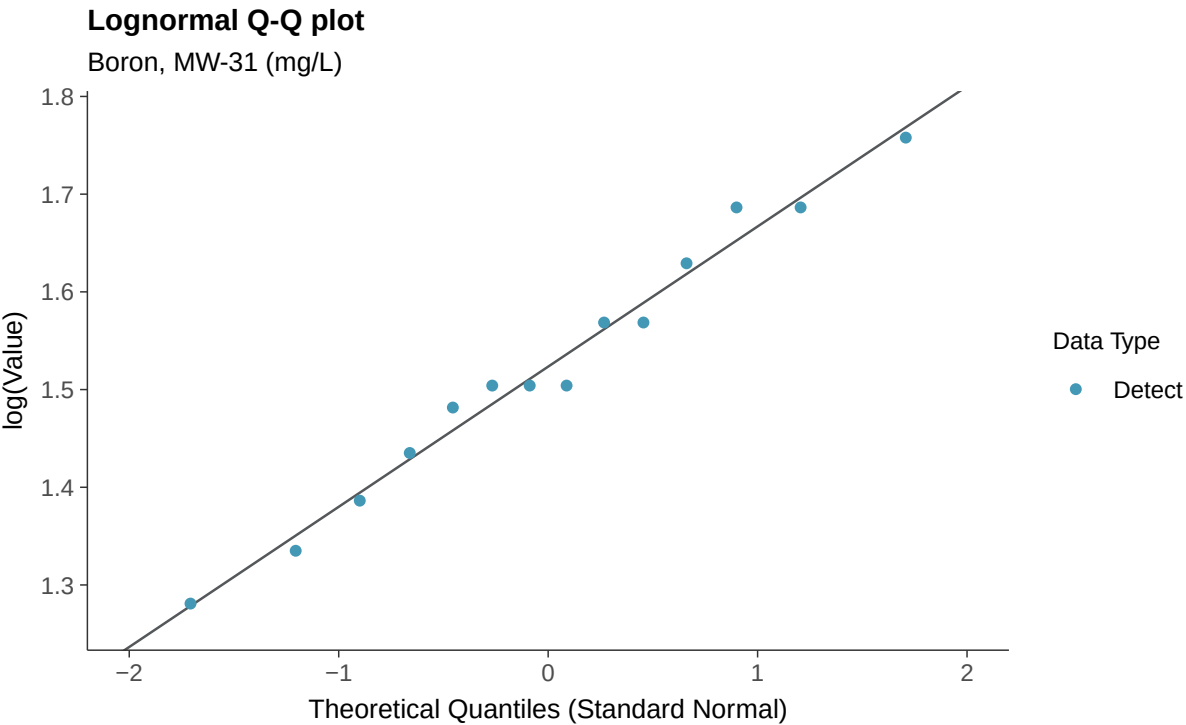
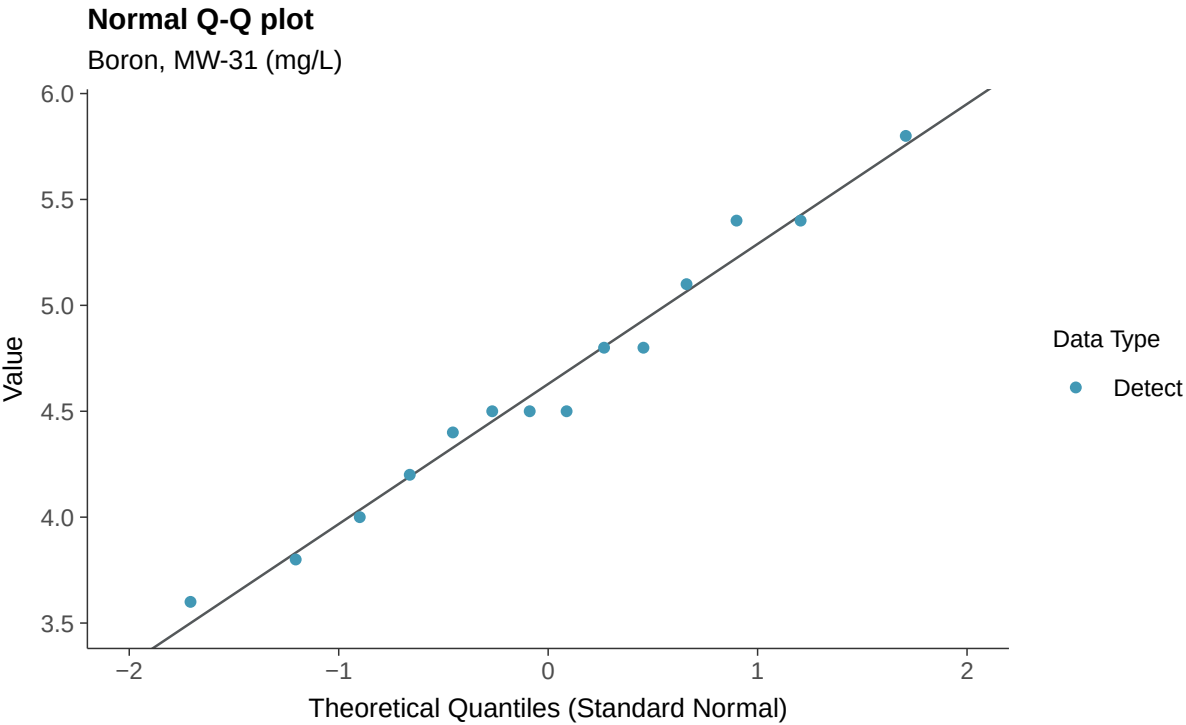


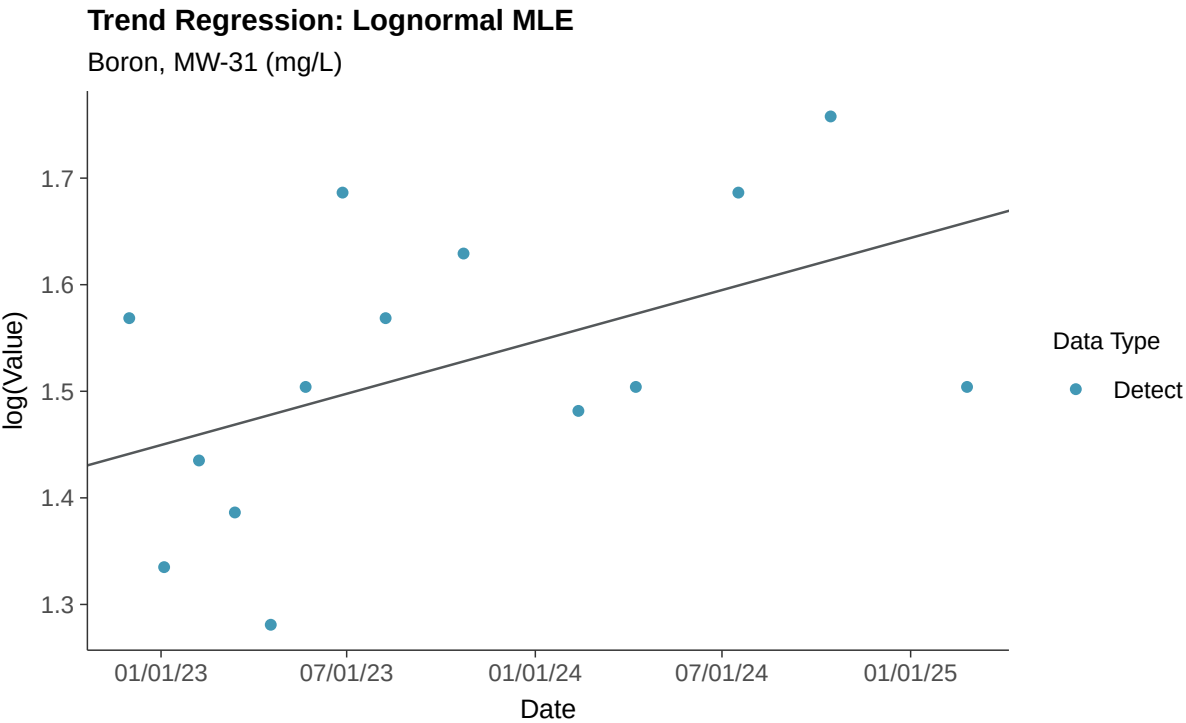
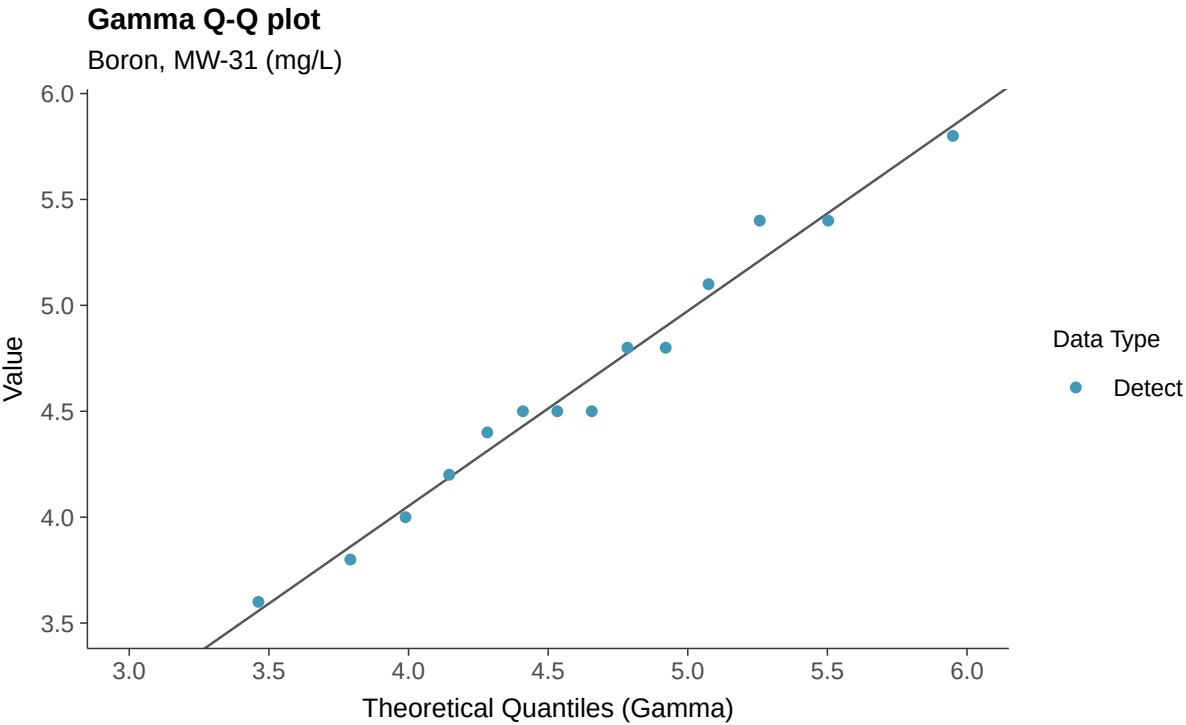
Appendix III: Boron, MW-31

ID: 41_1_3_105





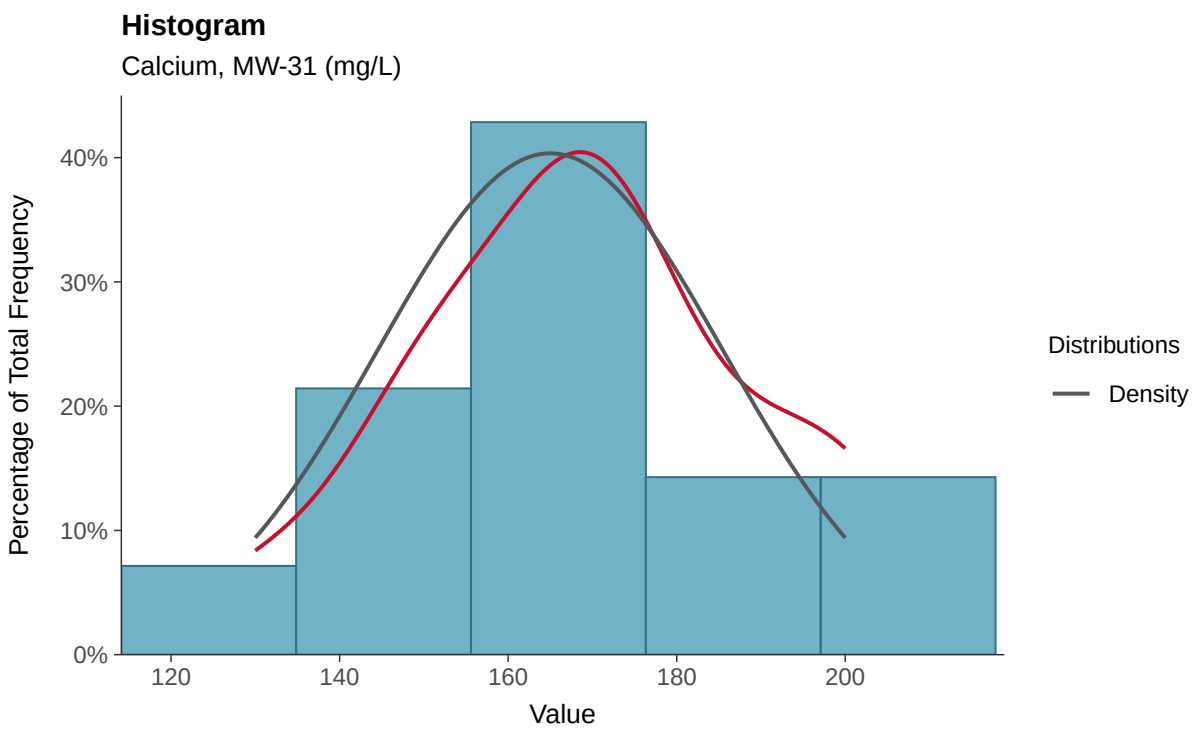
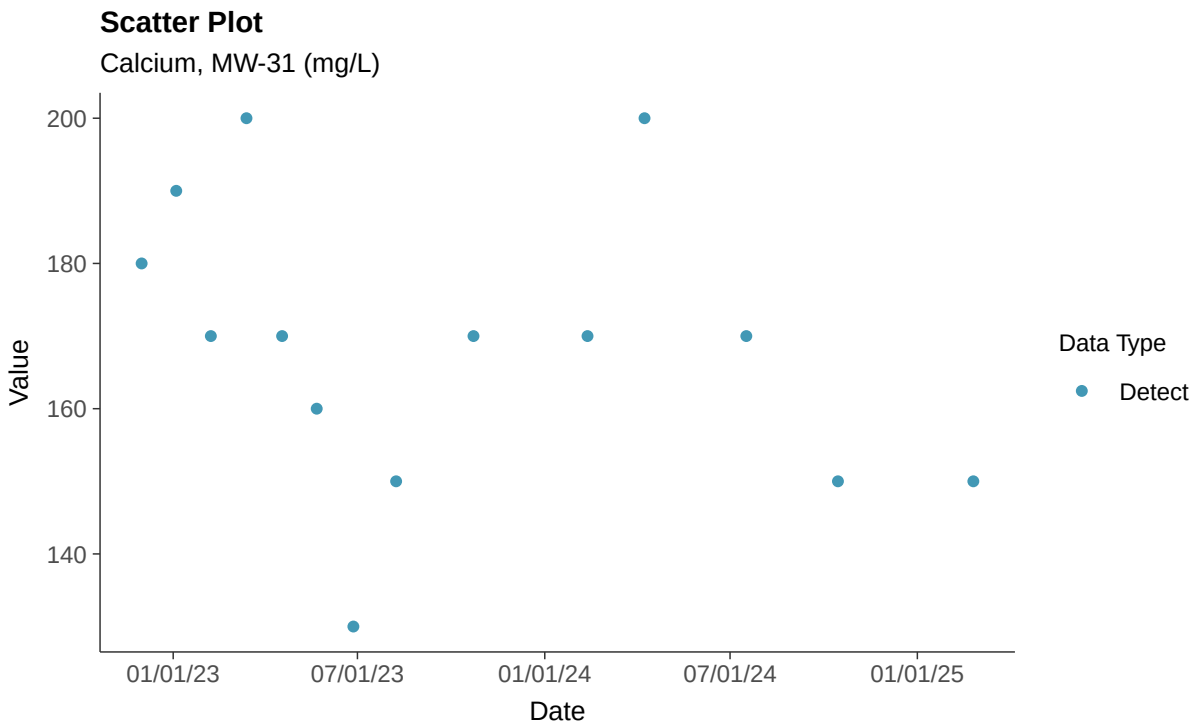


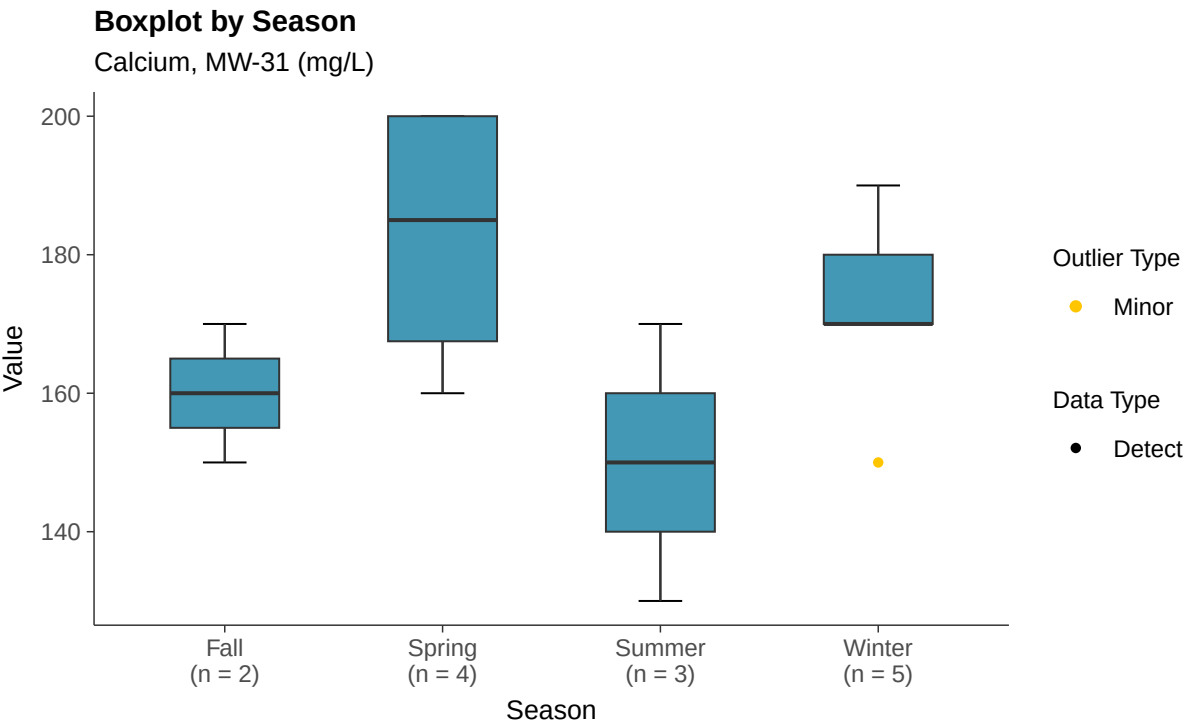
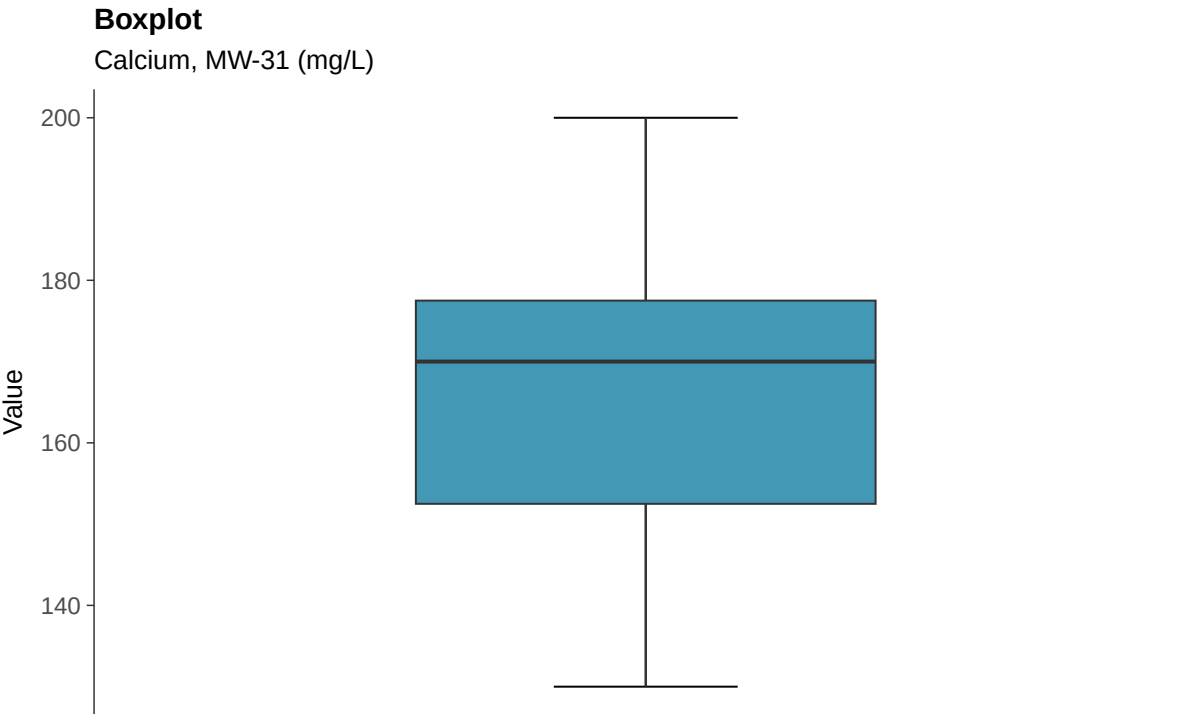


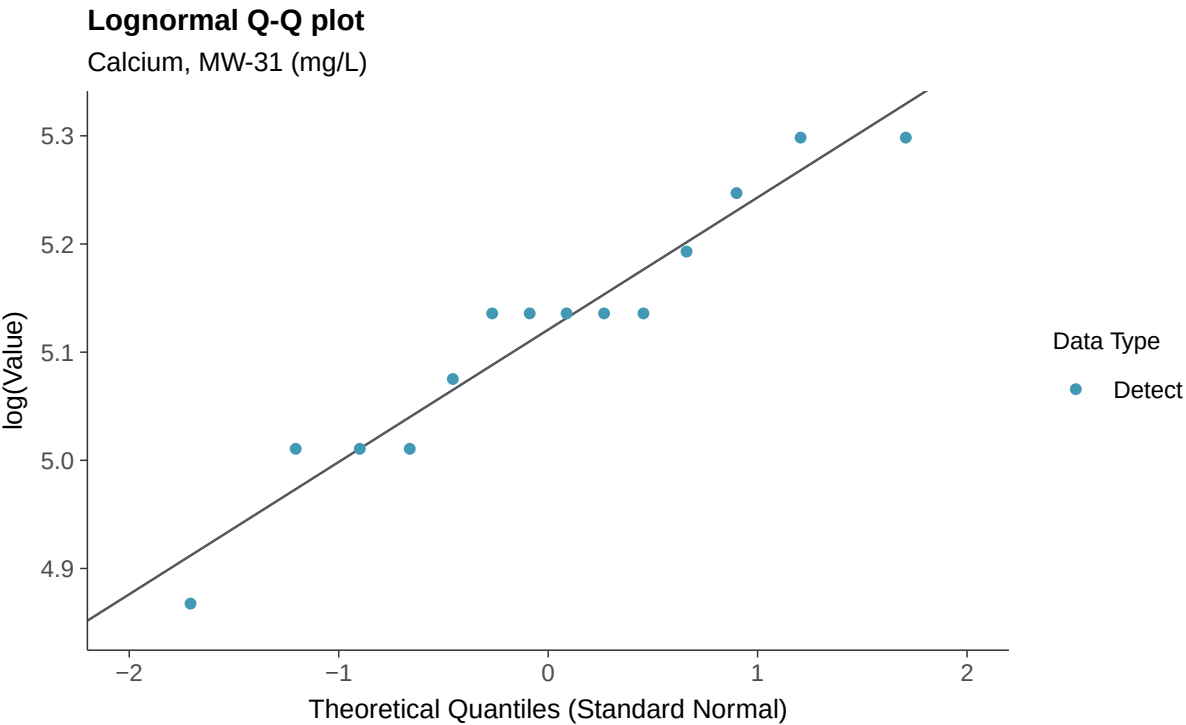
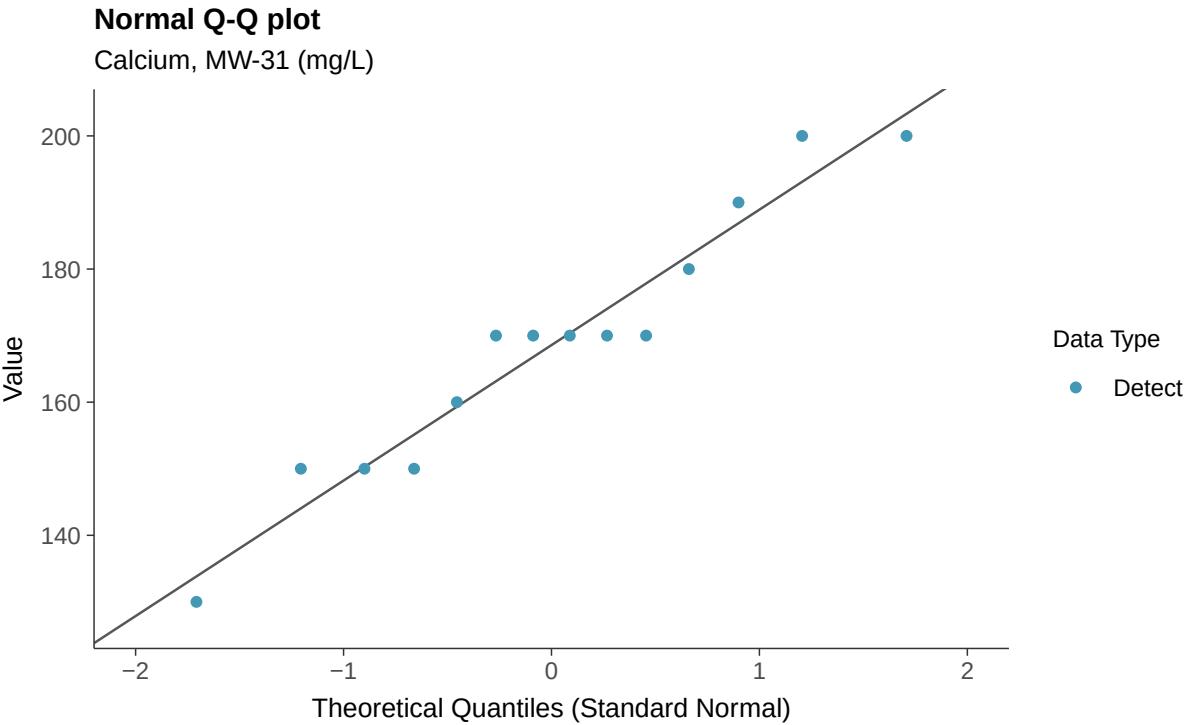


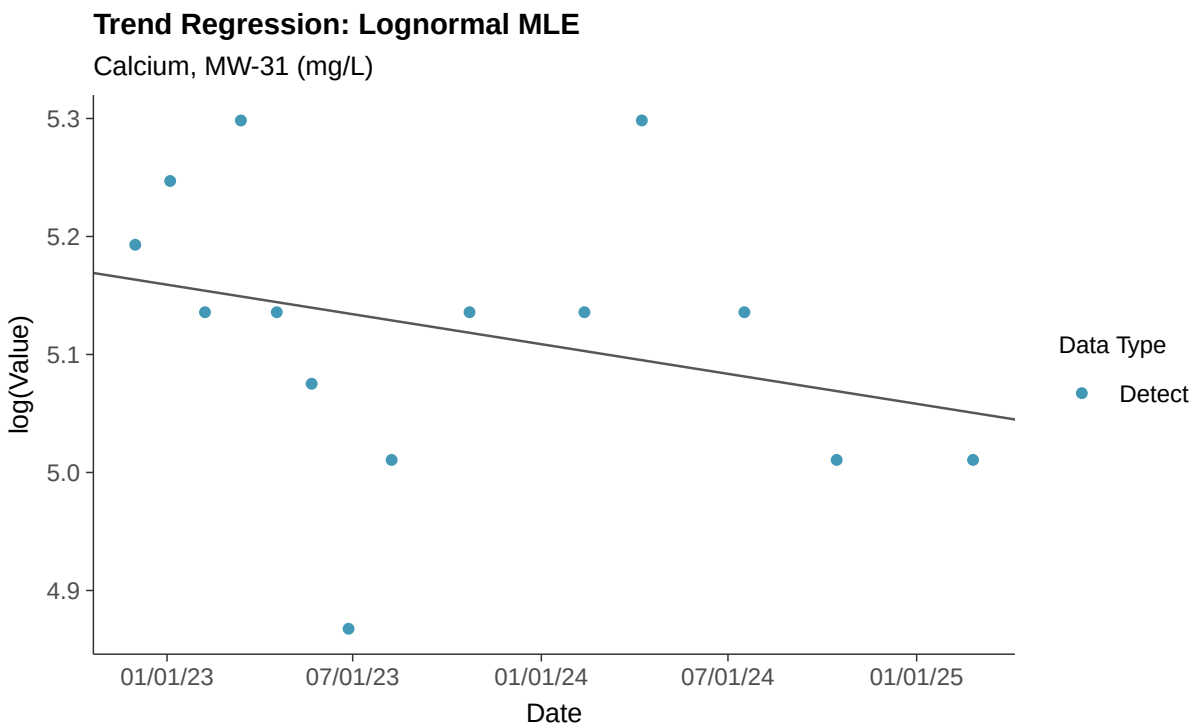
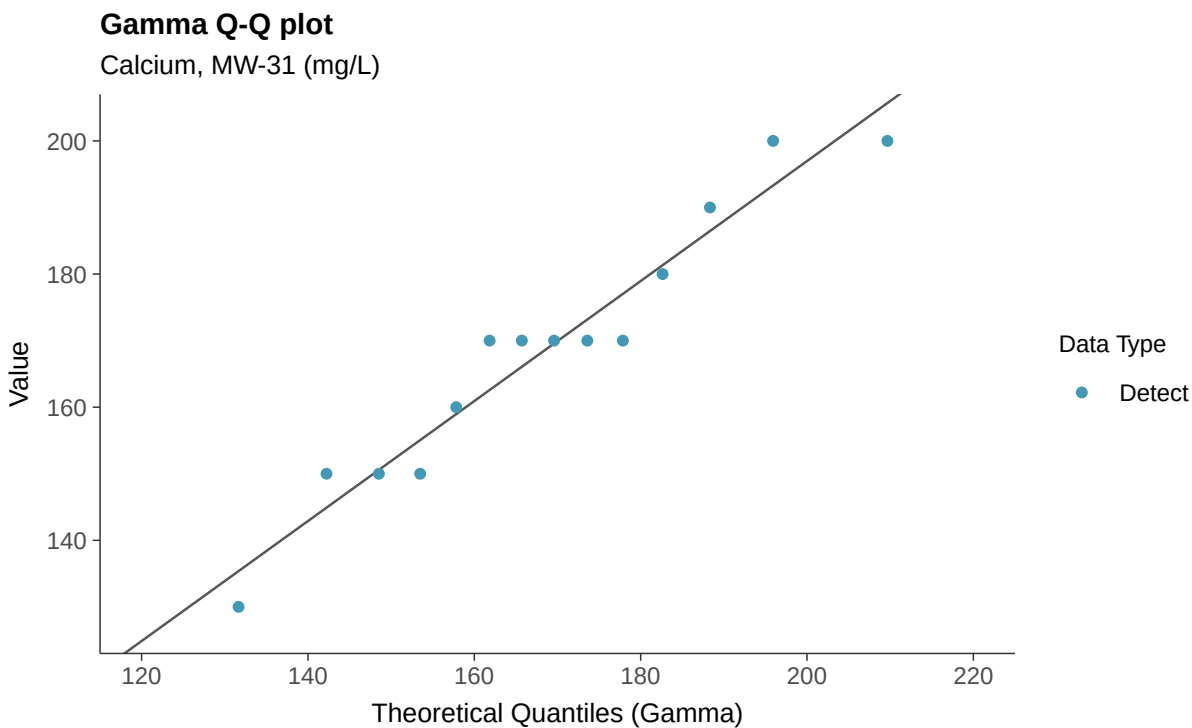
Appendix III: Calcium, MW-31

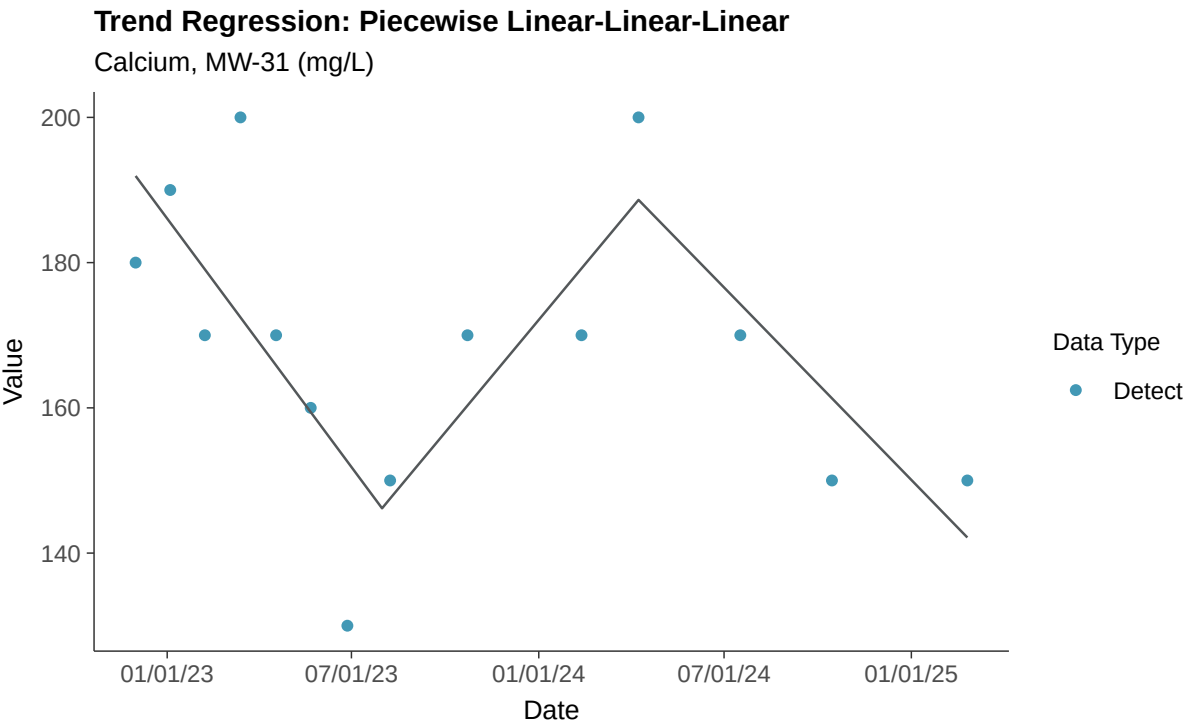
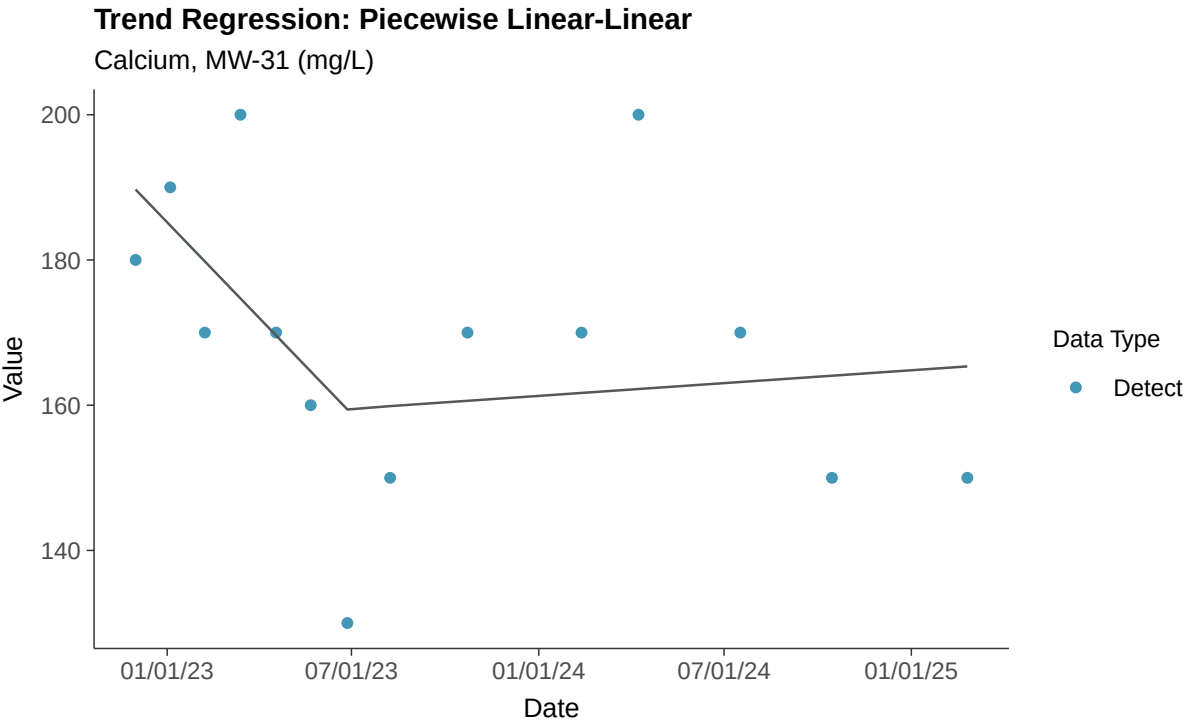
ID: 41_1_3_107







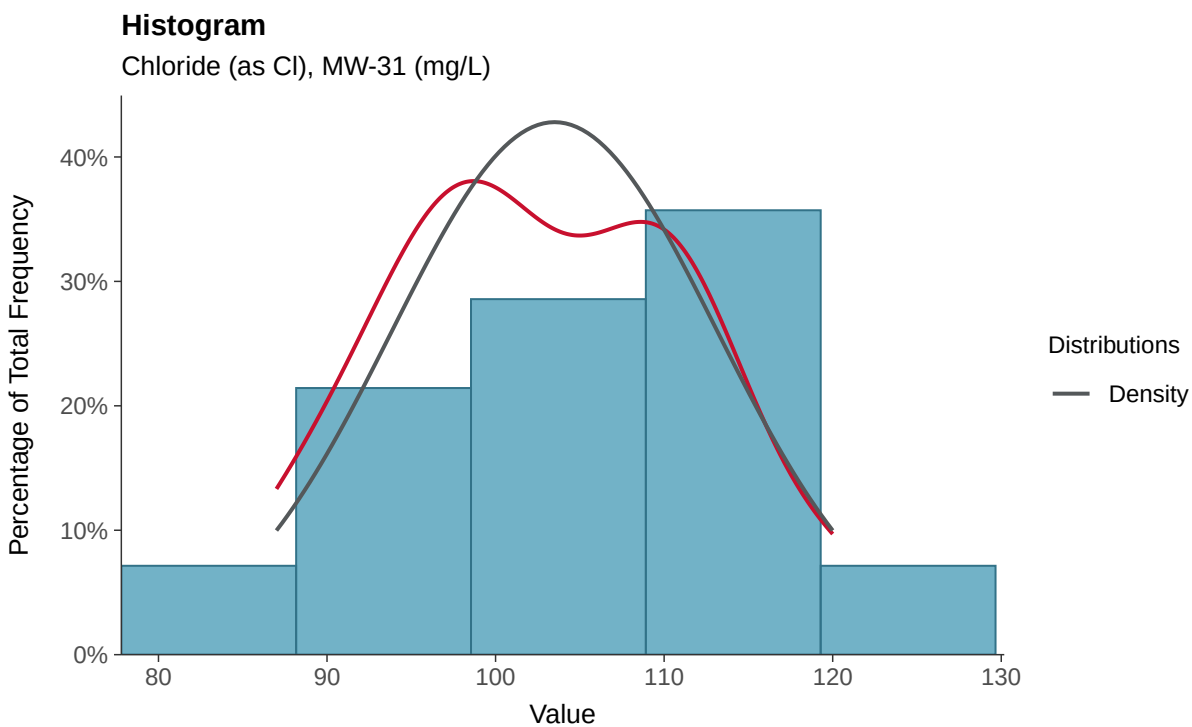
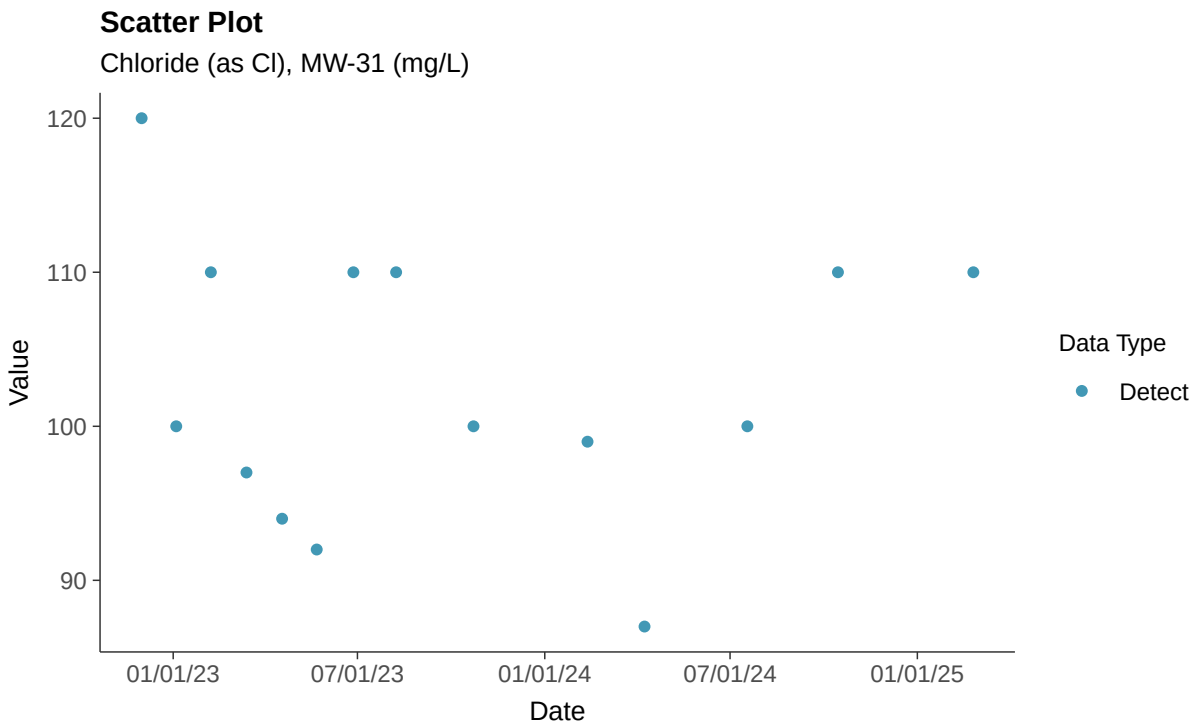


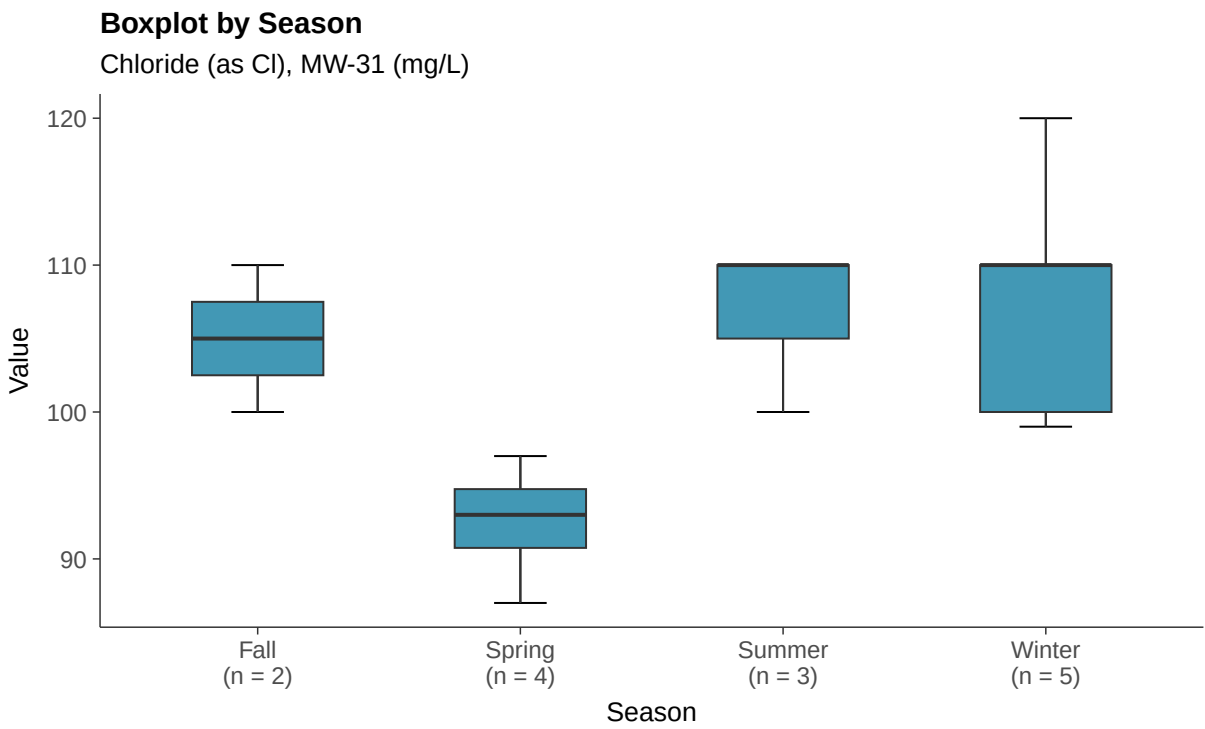
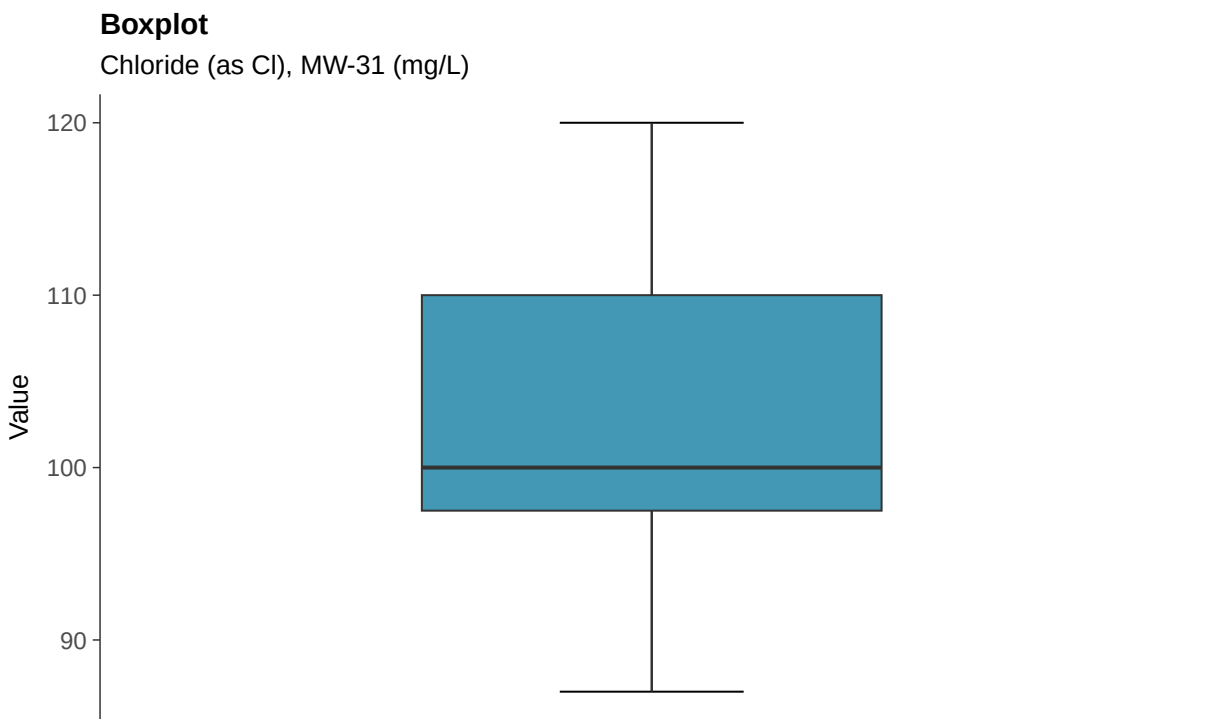


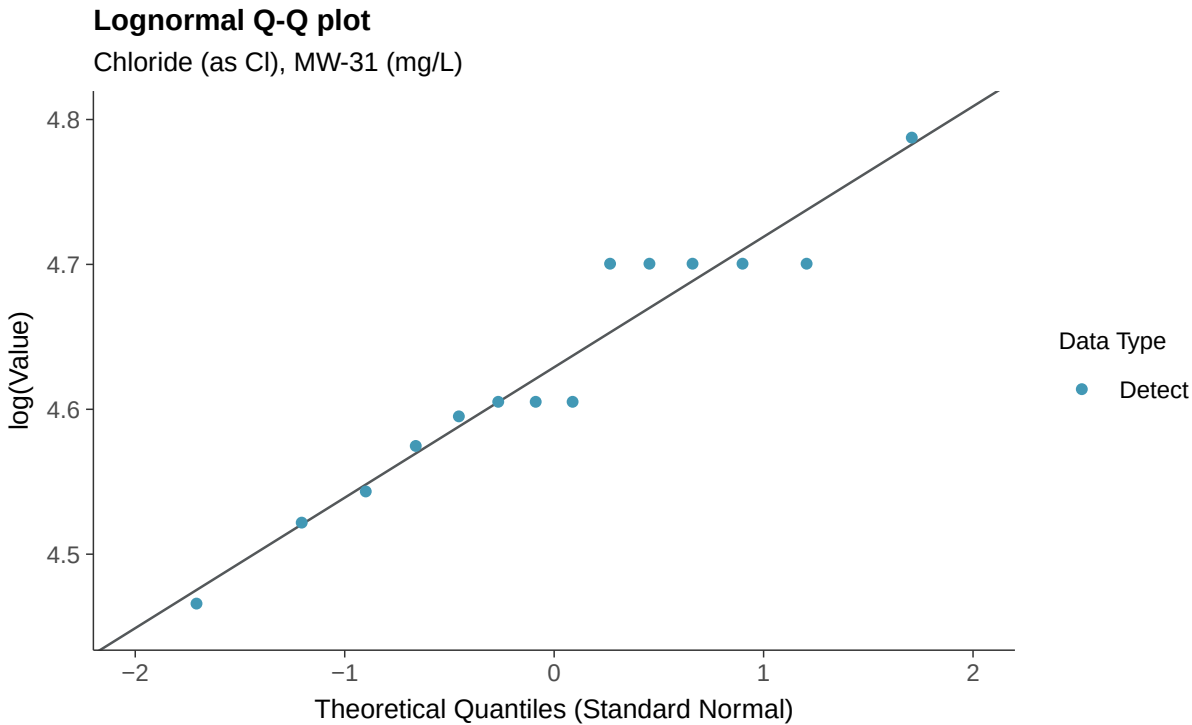
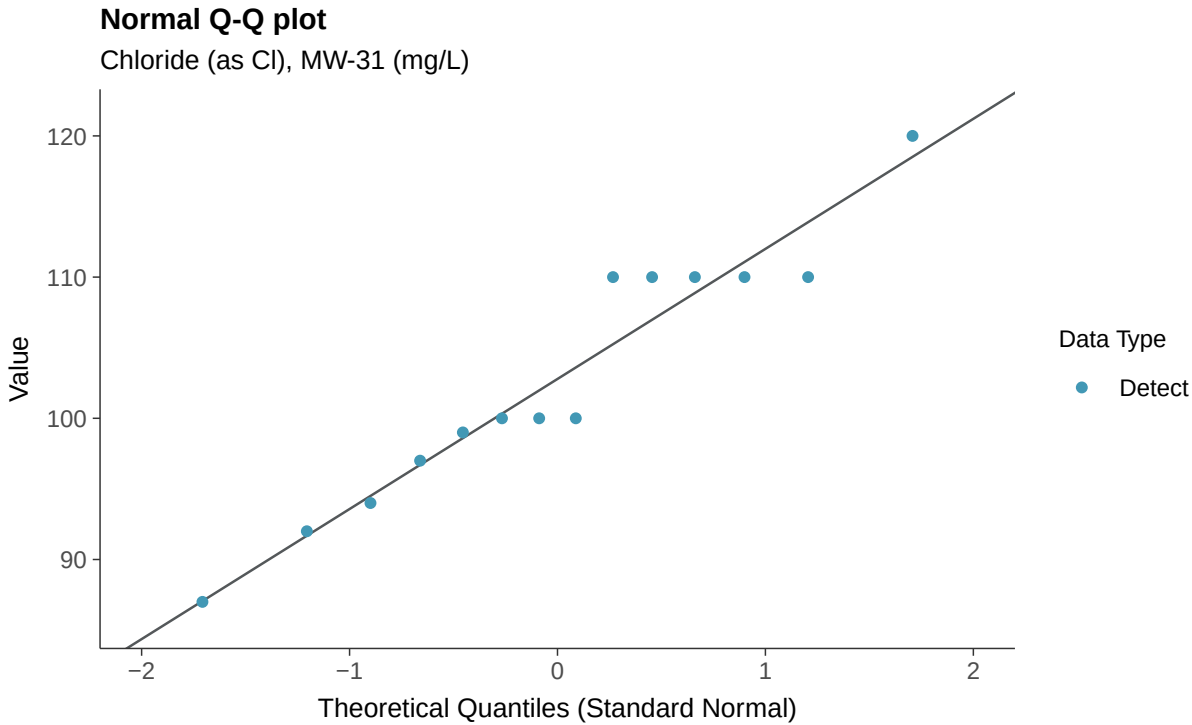


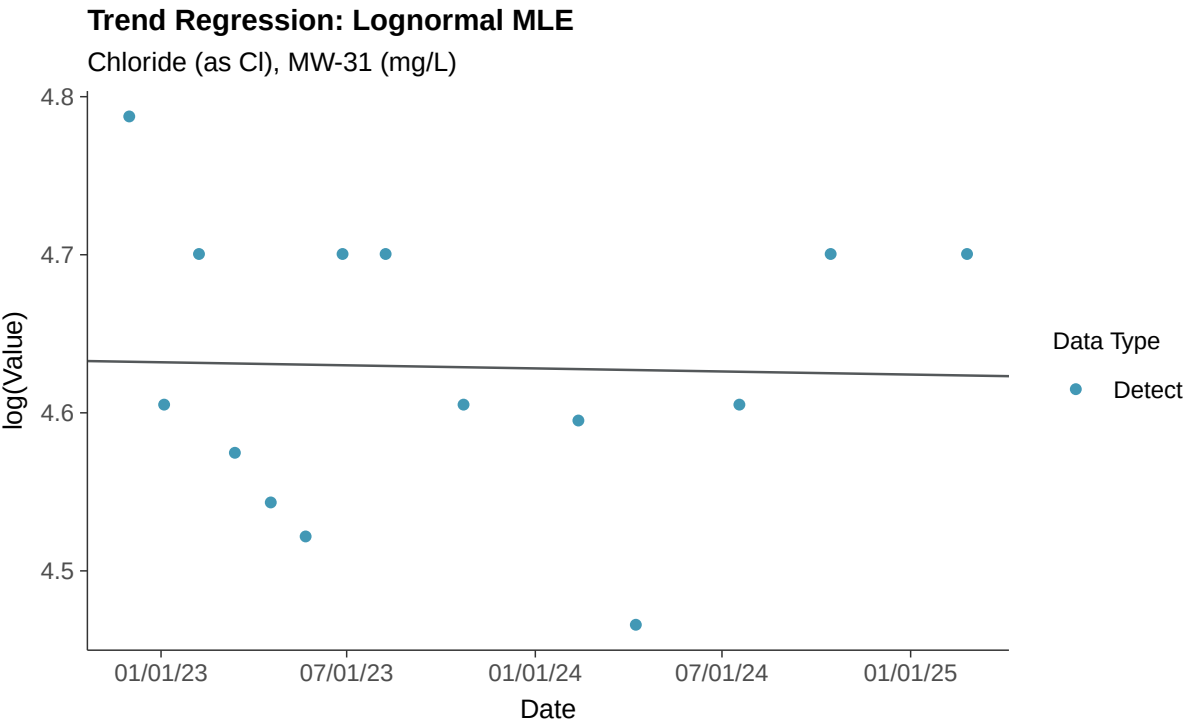
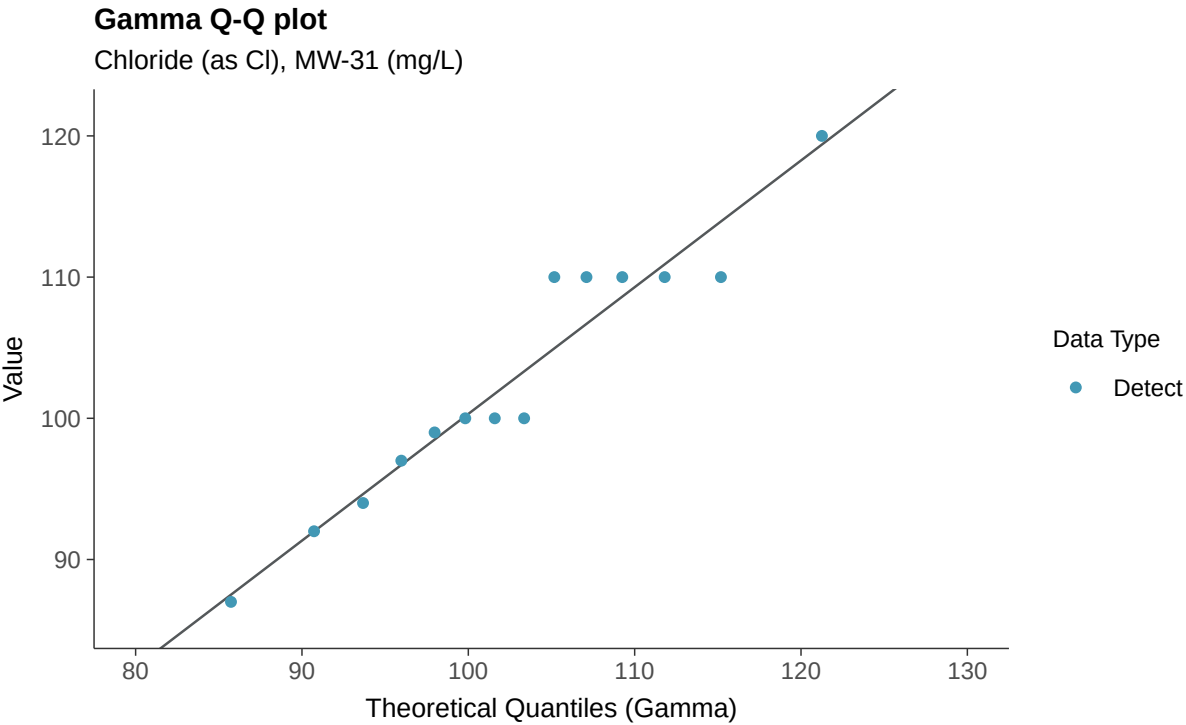
Appendix III: Chloride (as Cl), MW-31

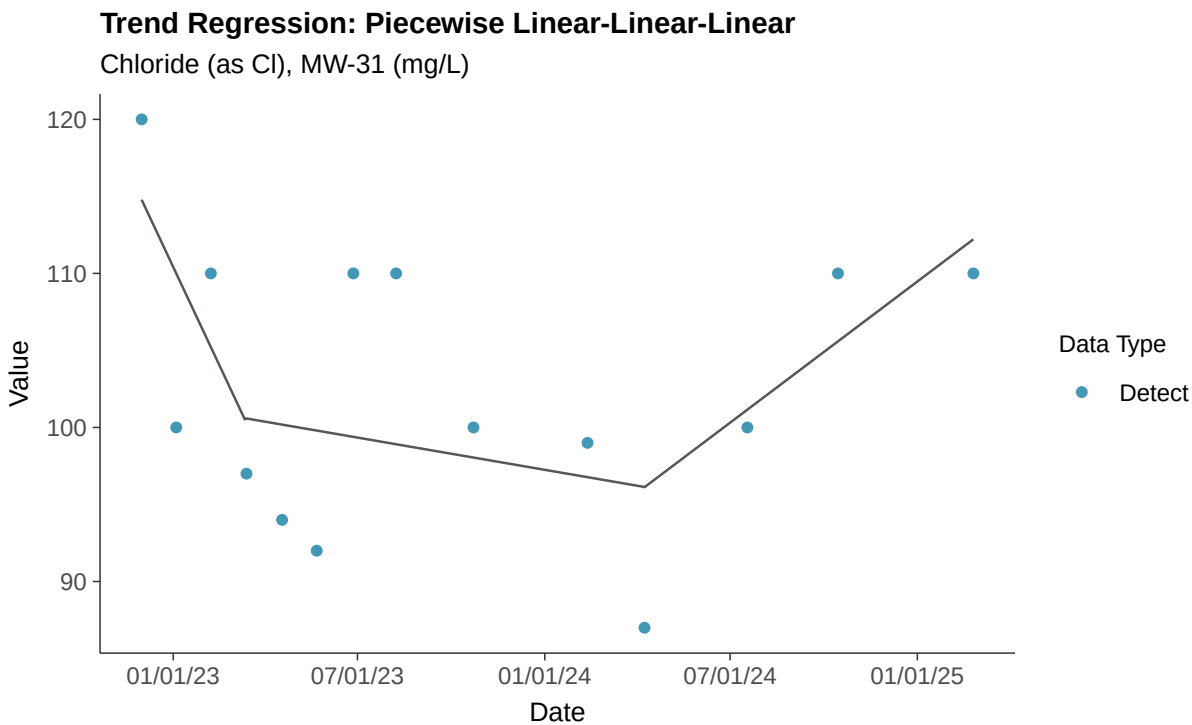
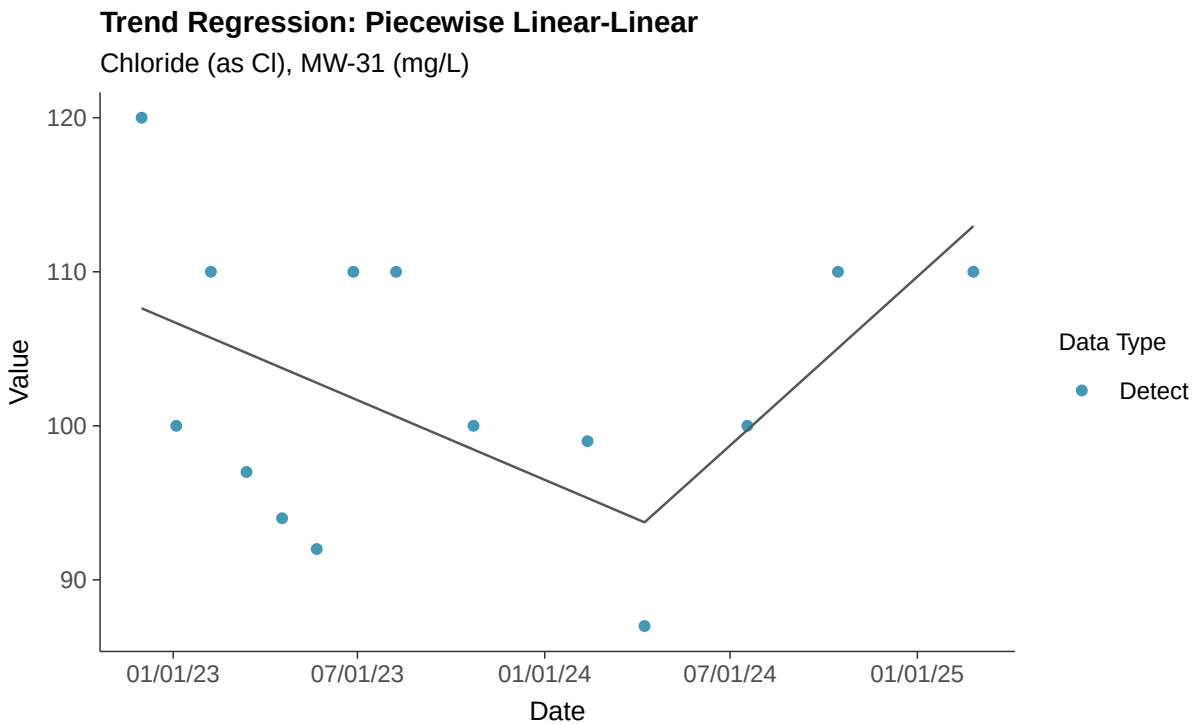
ID: 41_1_3_108







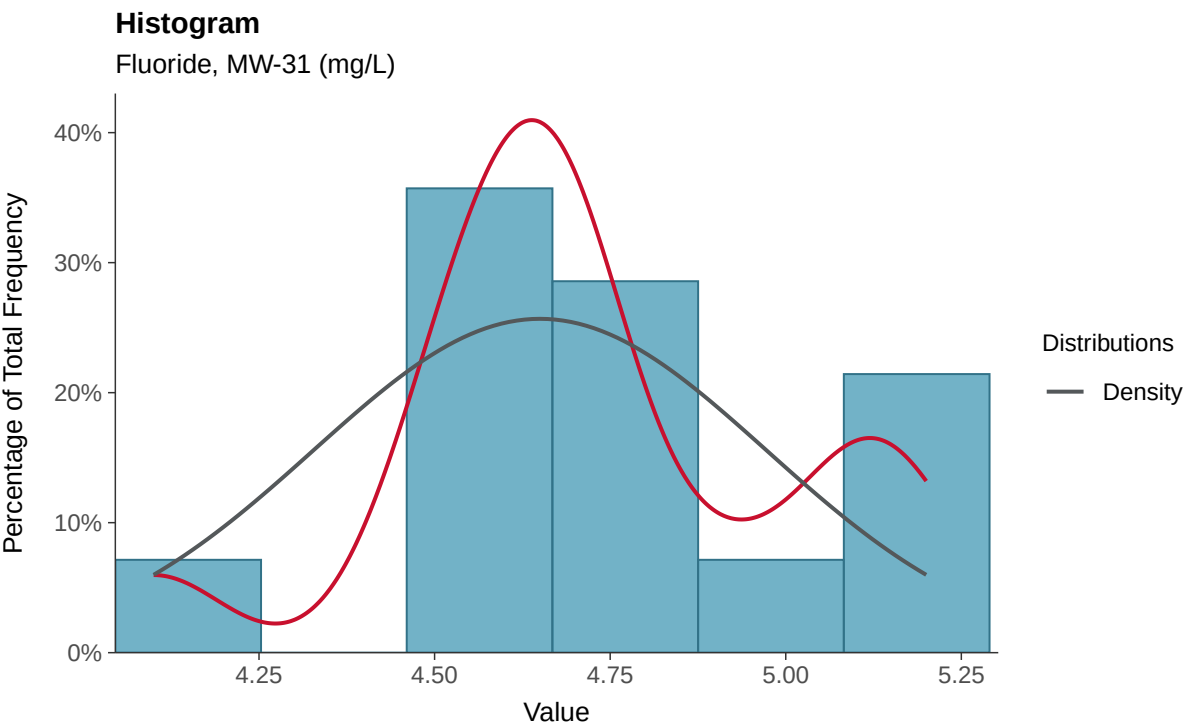
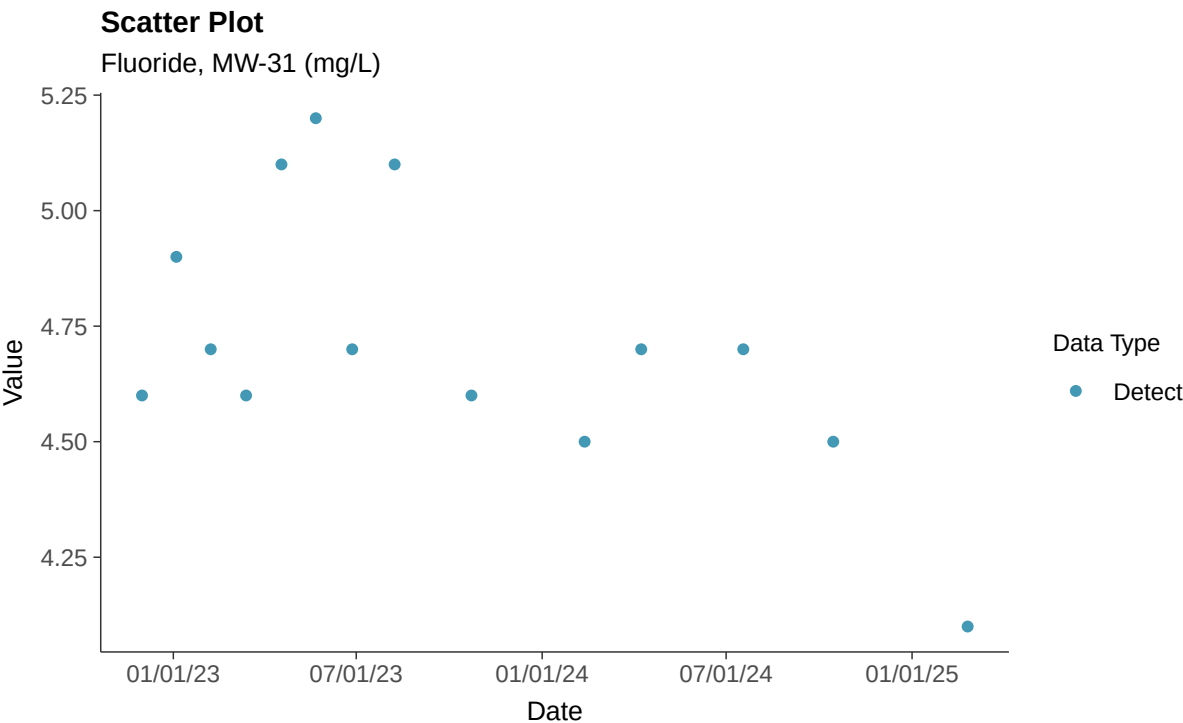


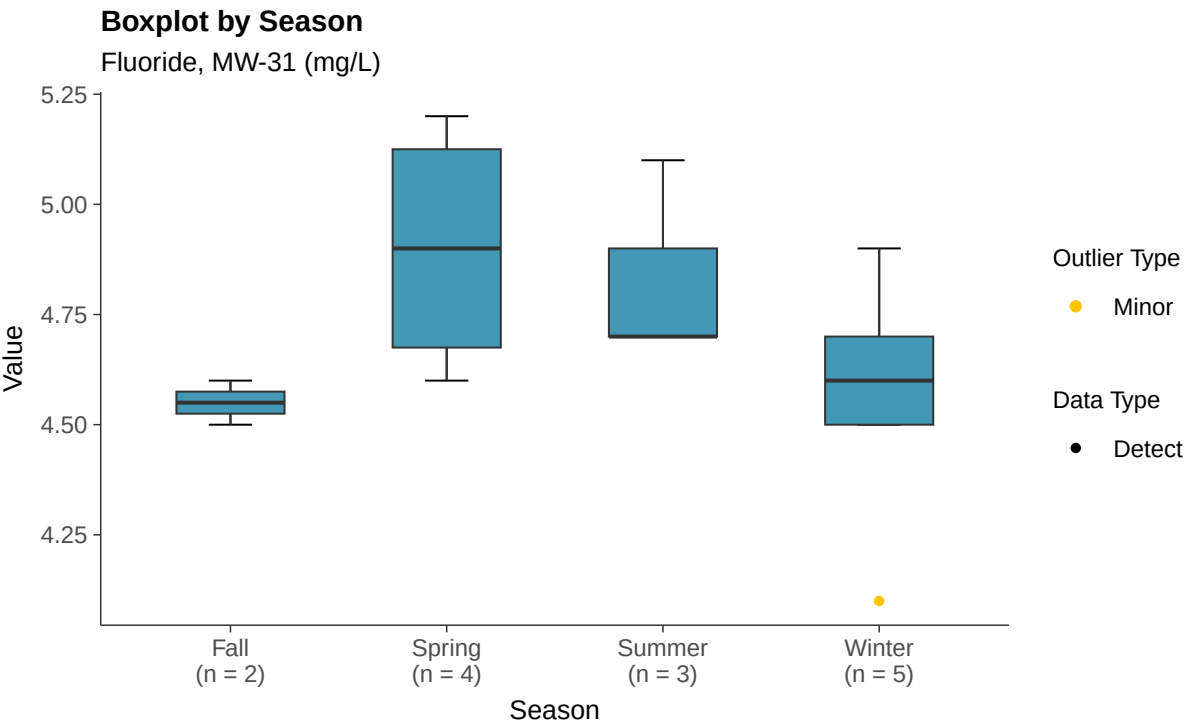
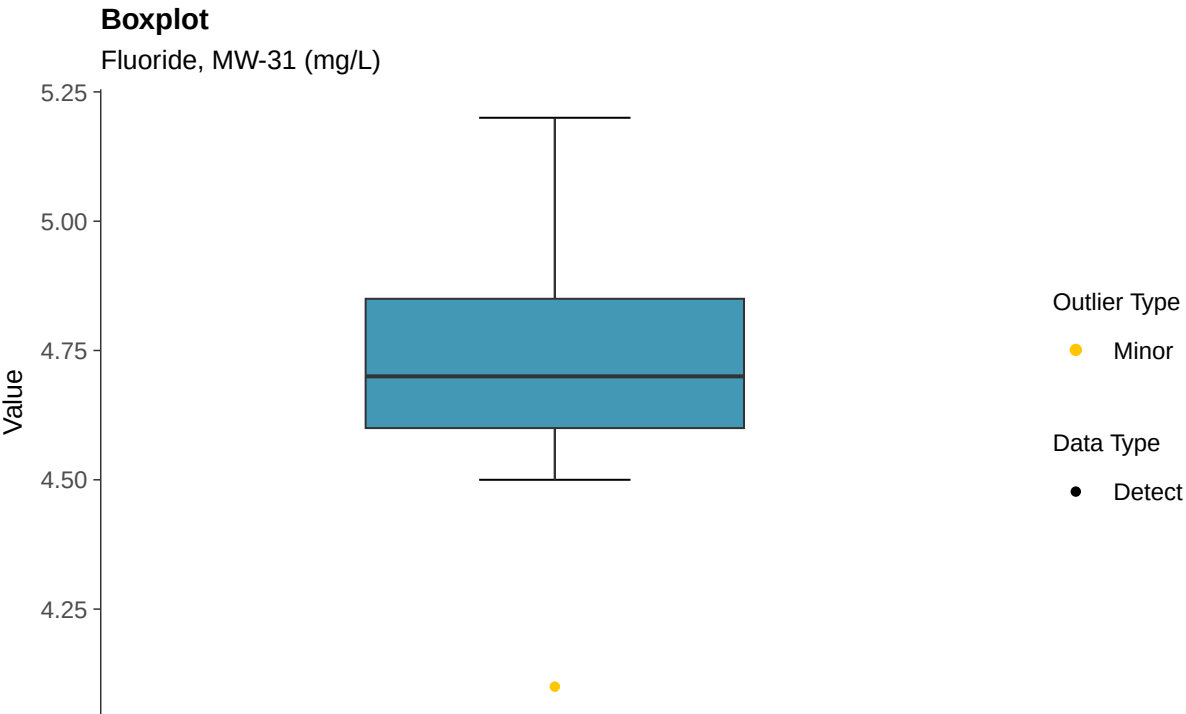


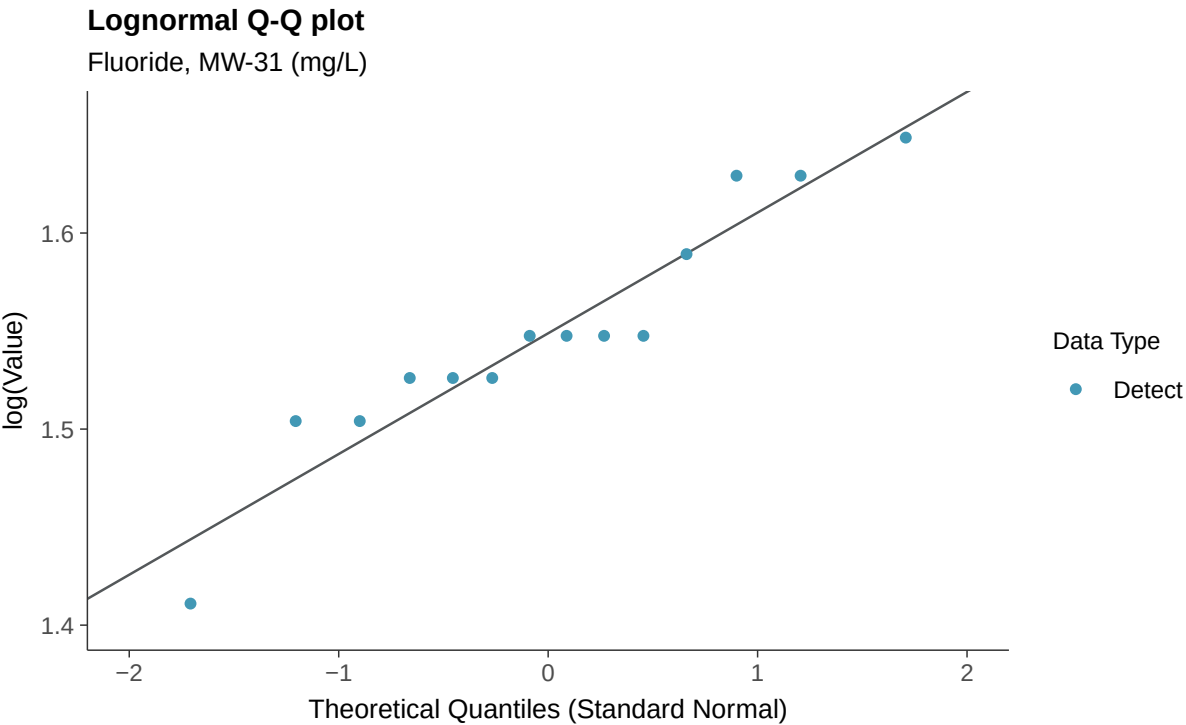
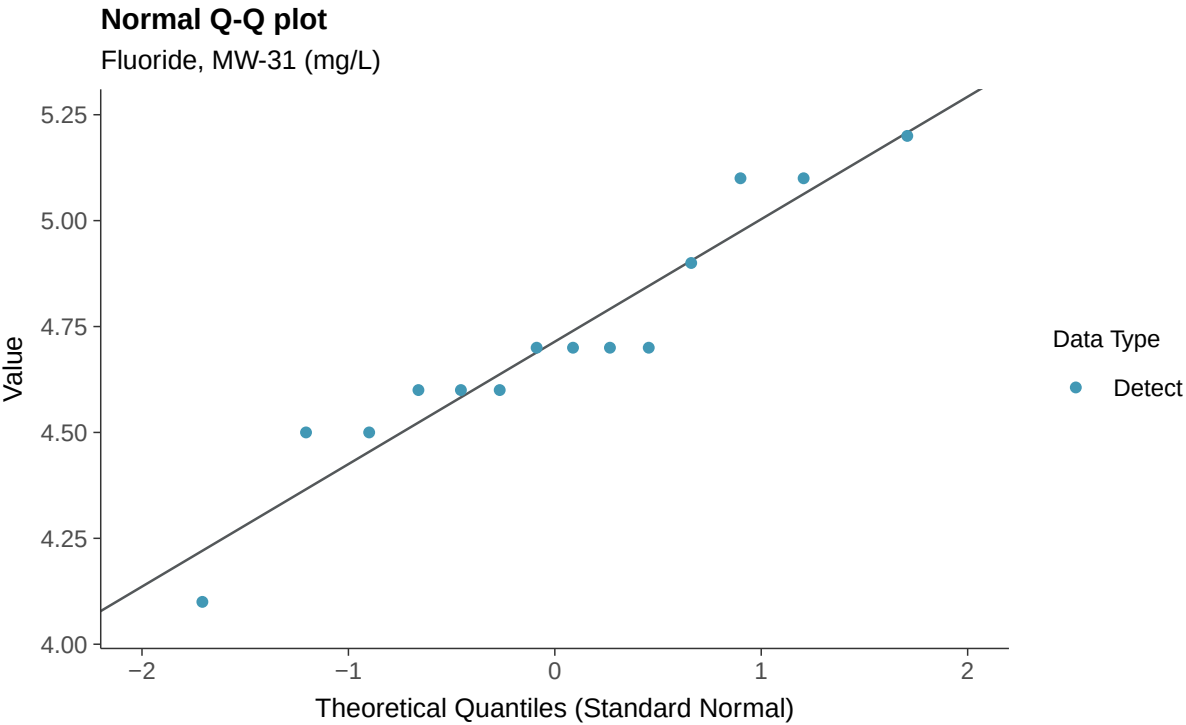


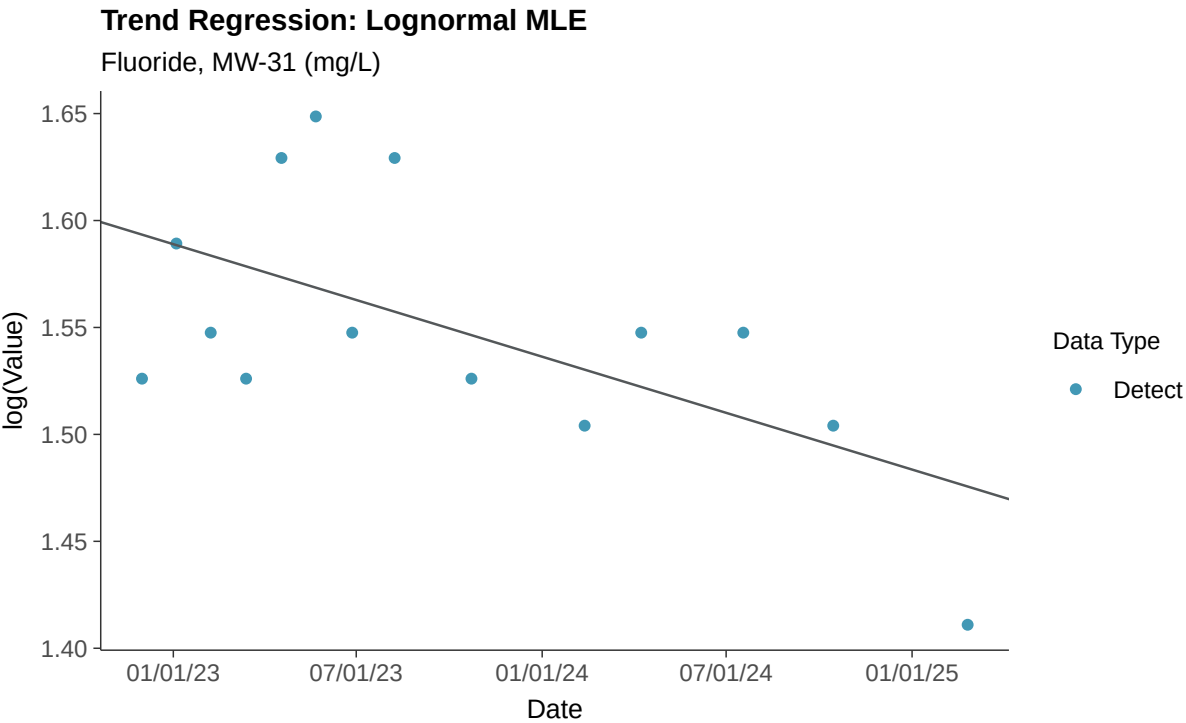
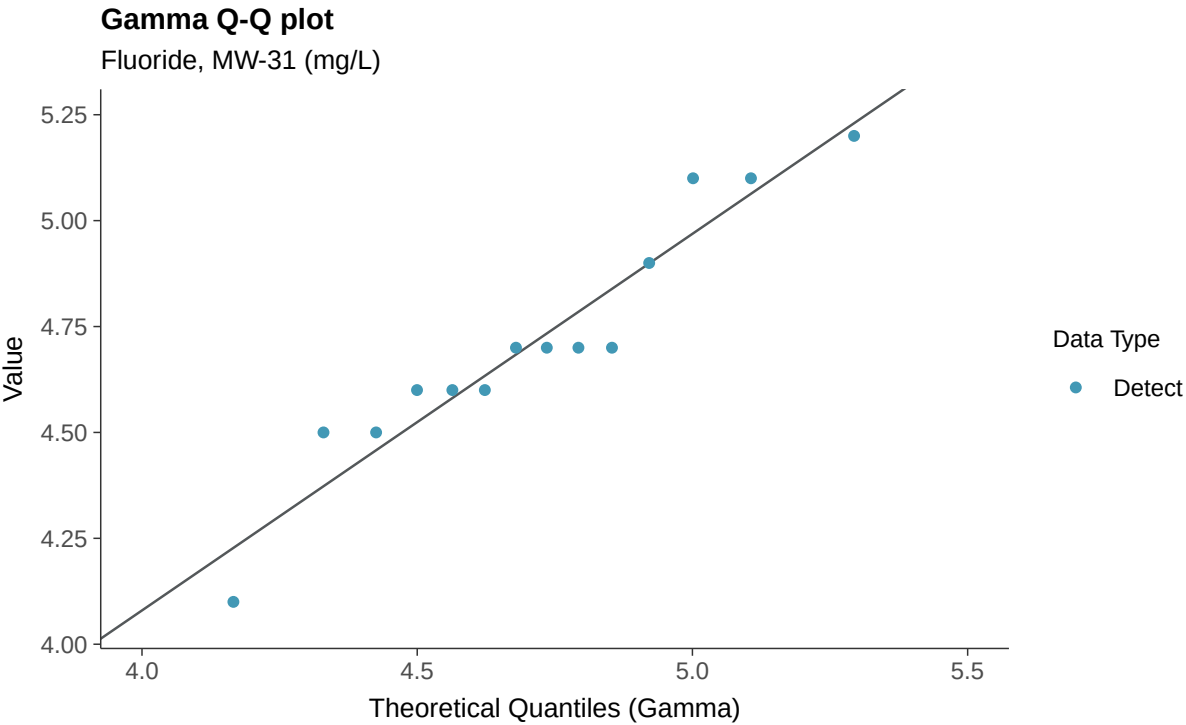
Appendix III: Fluoride, MW-31

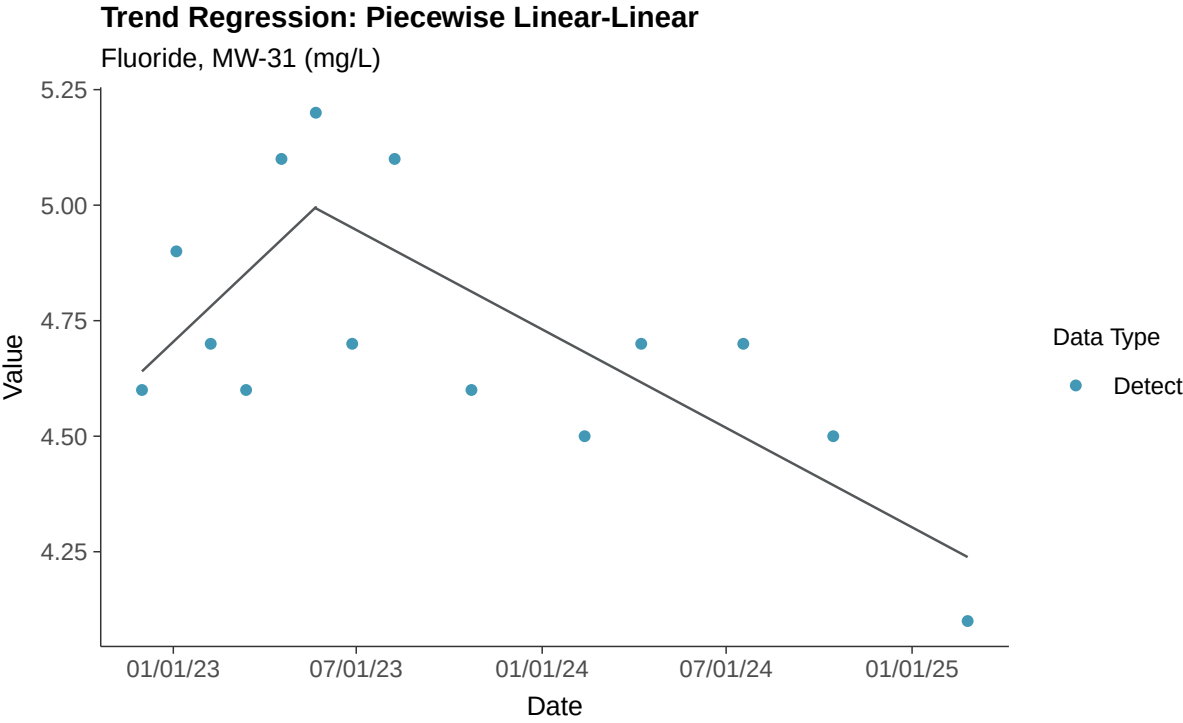
ID: 41_1_3_112







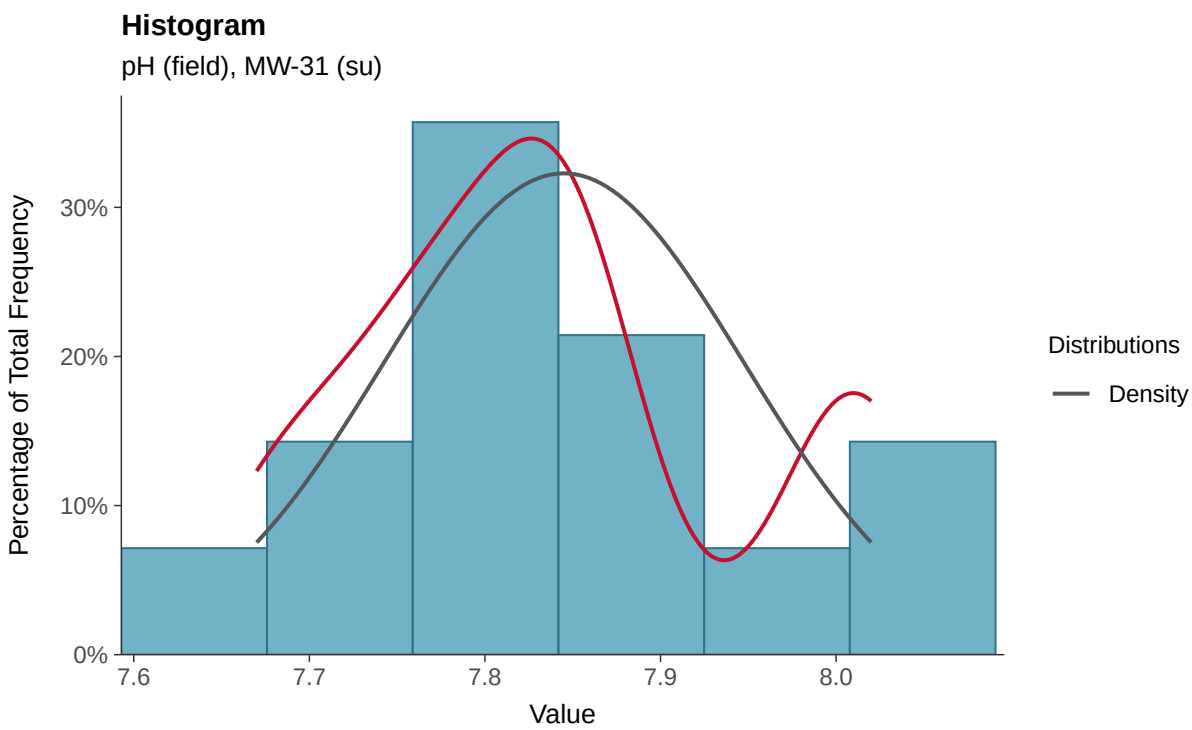
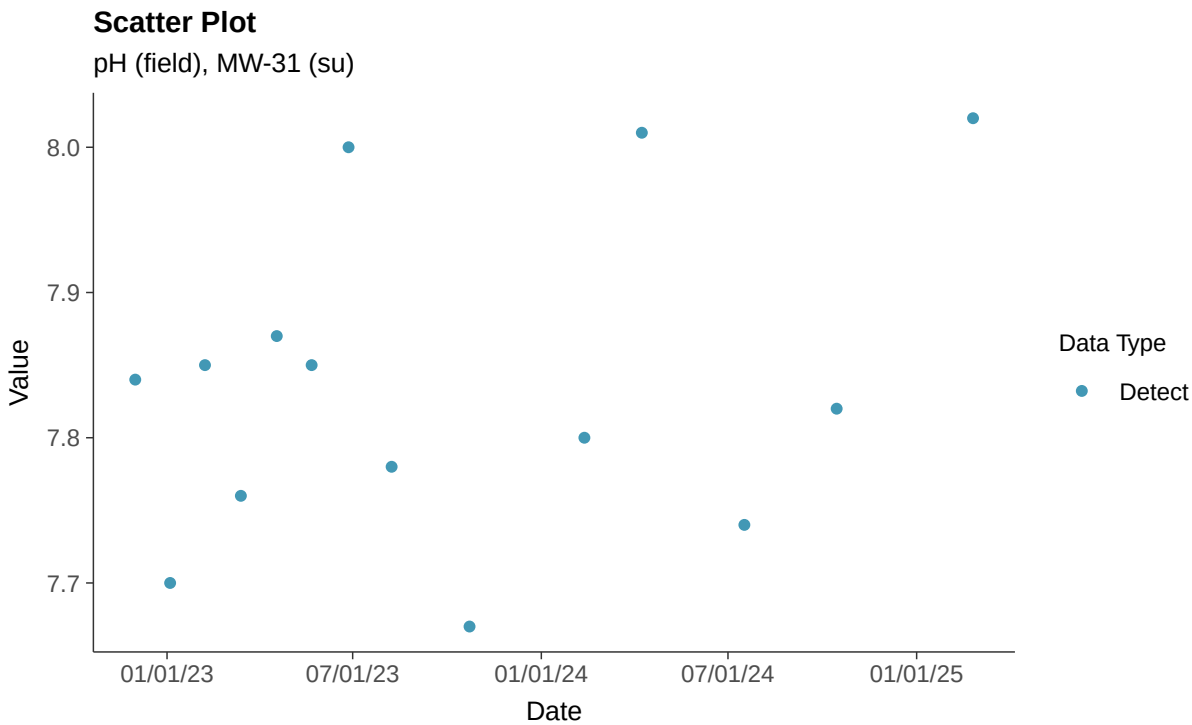


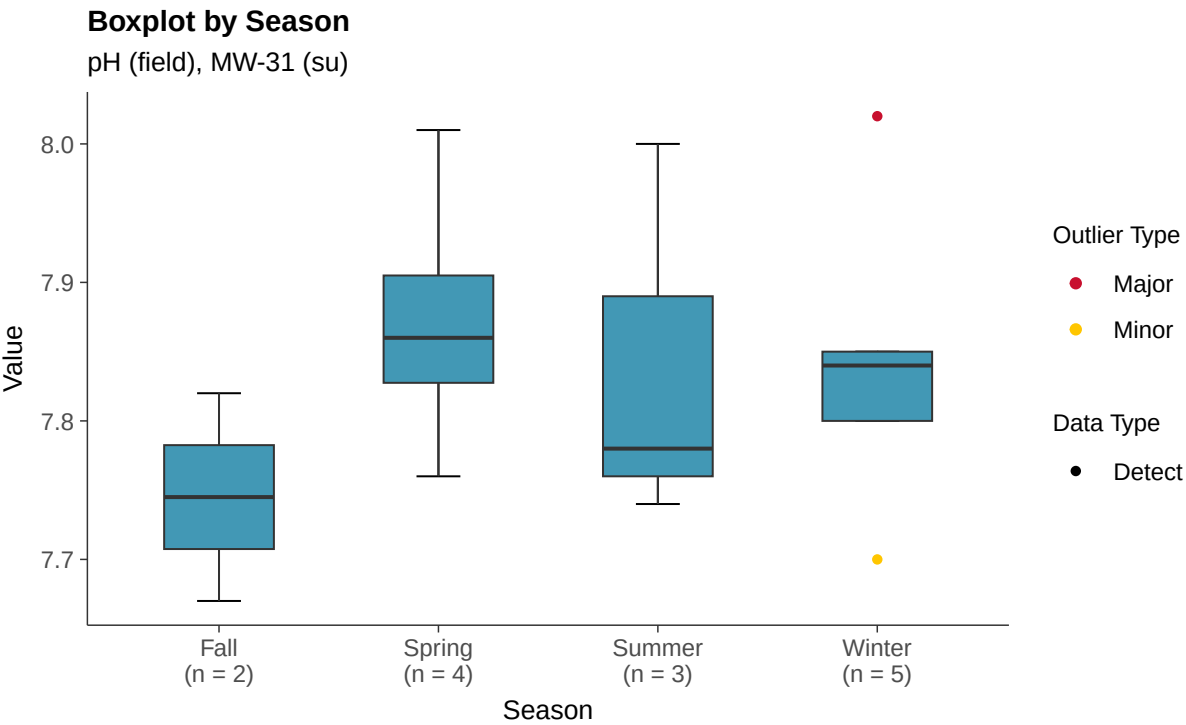
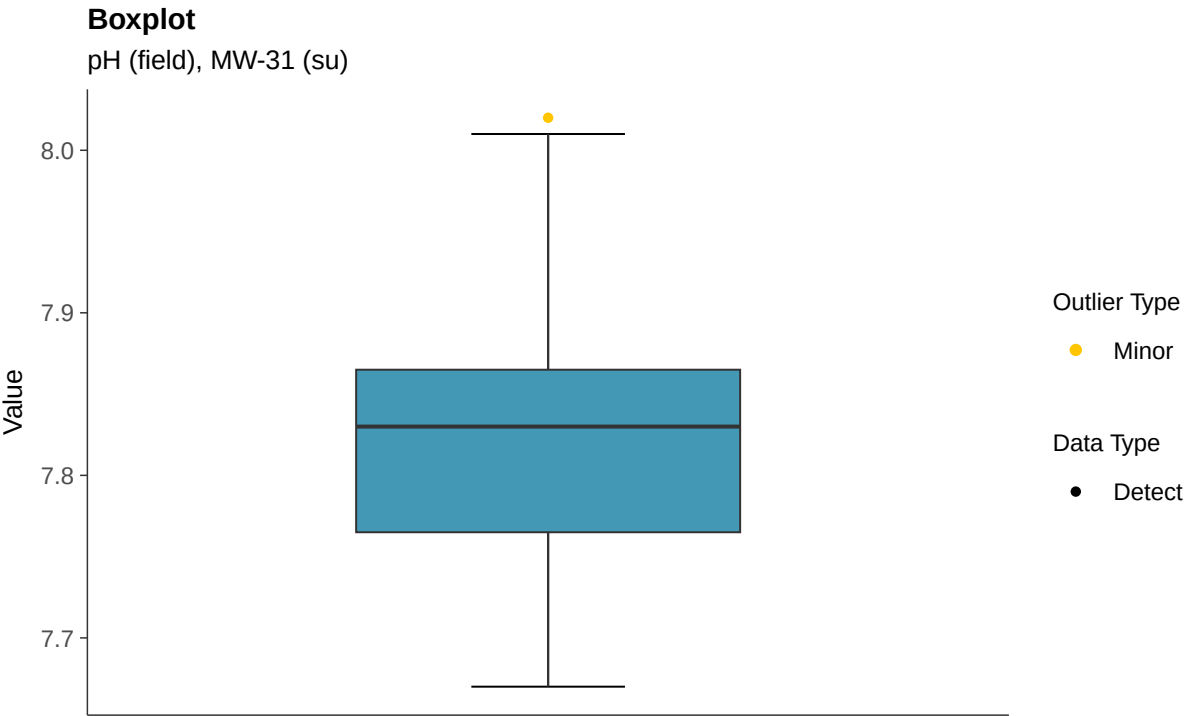


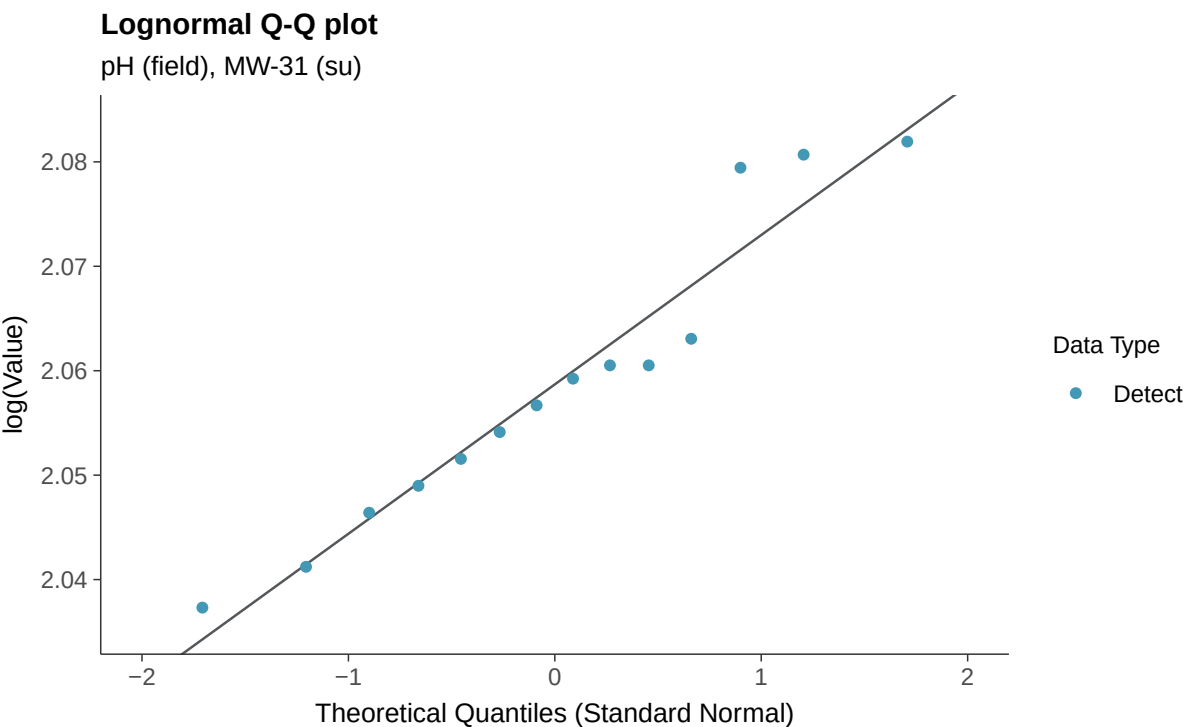
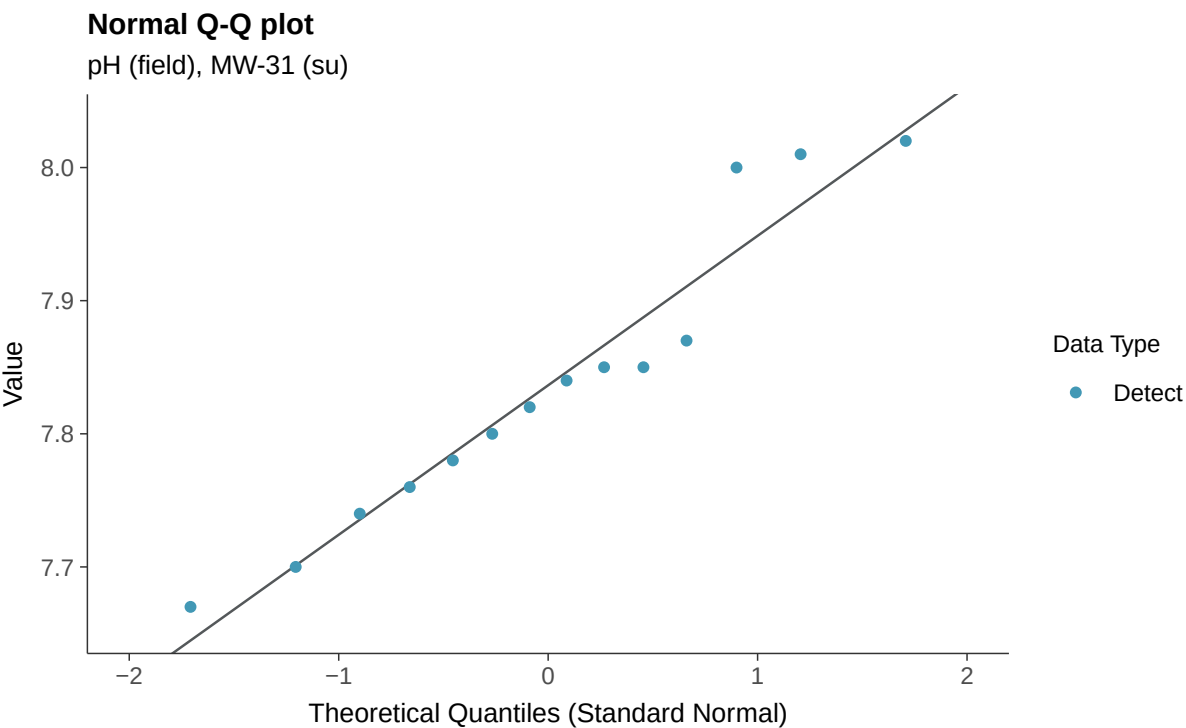


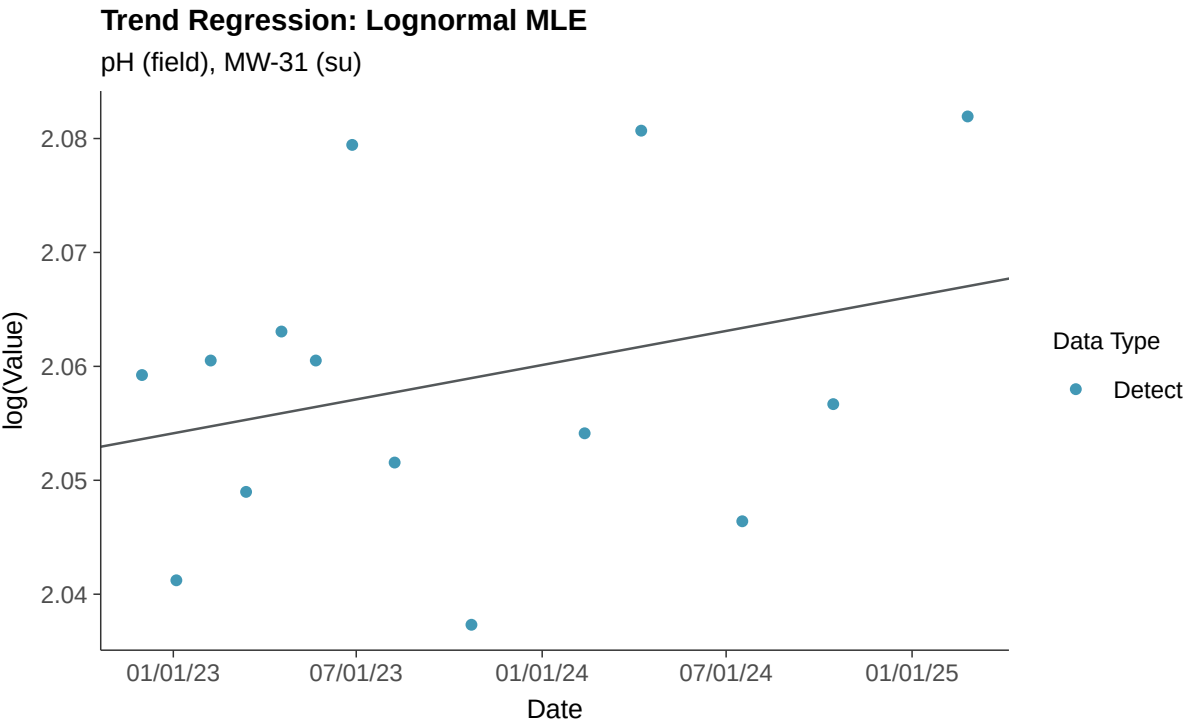
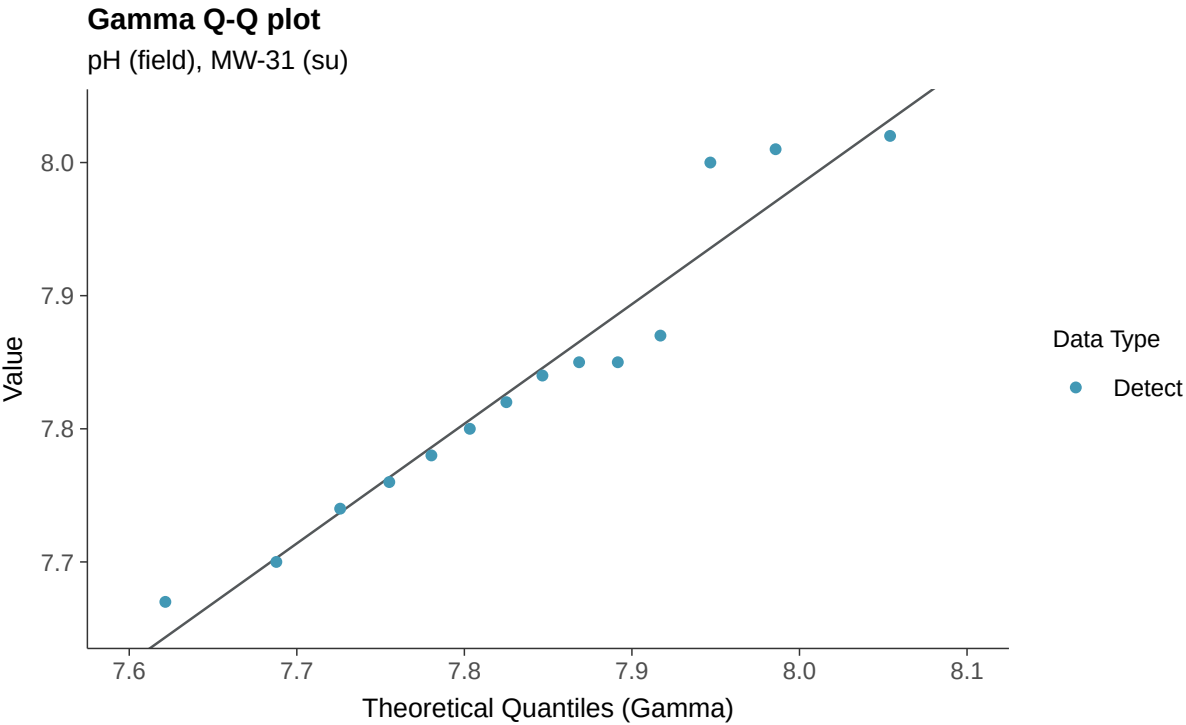
Appendix III: pH (field), MW-31

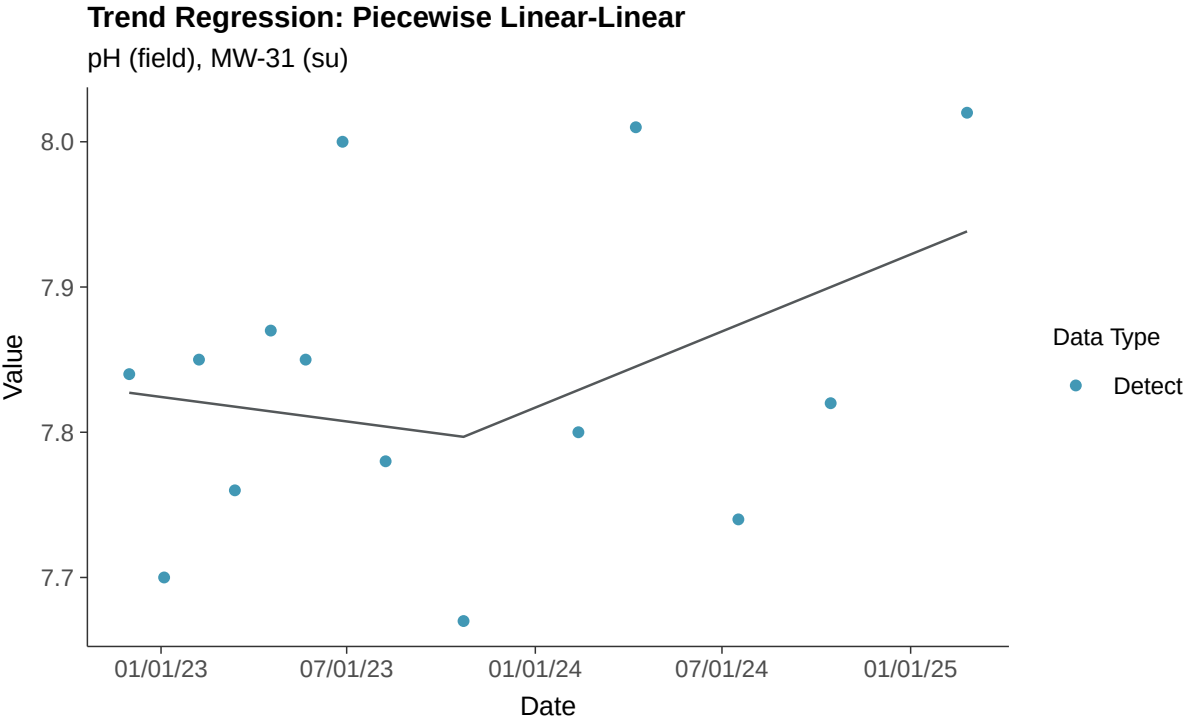
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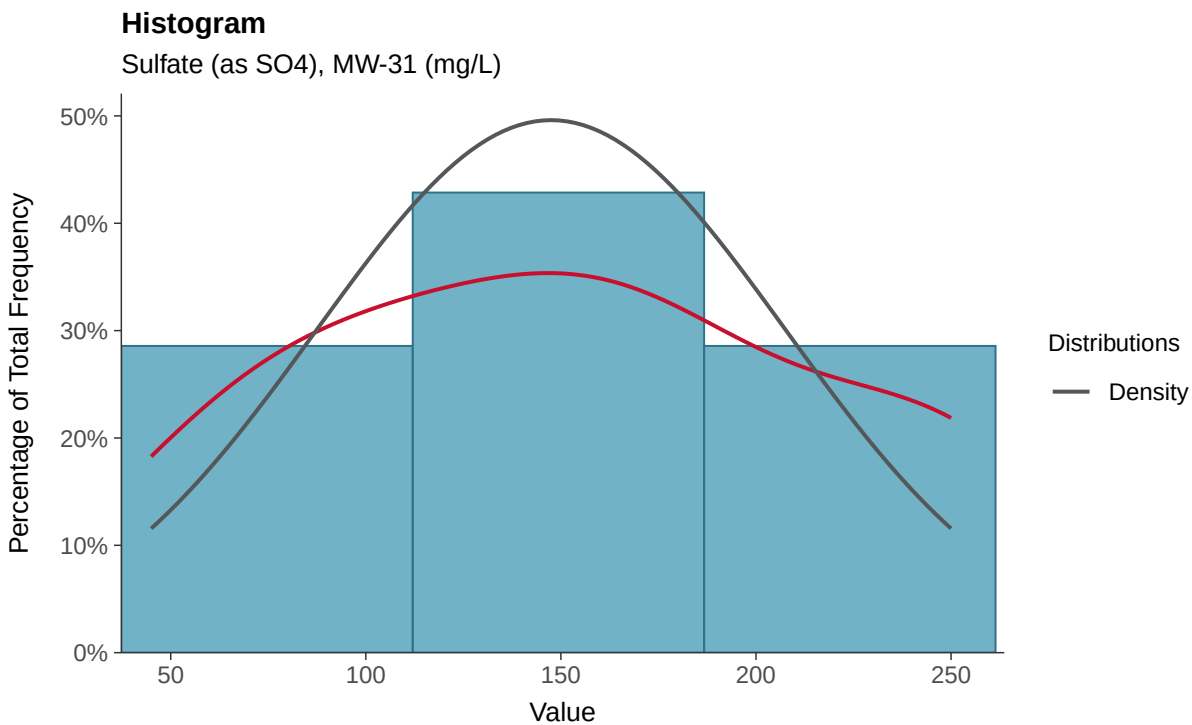
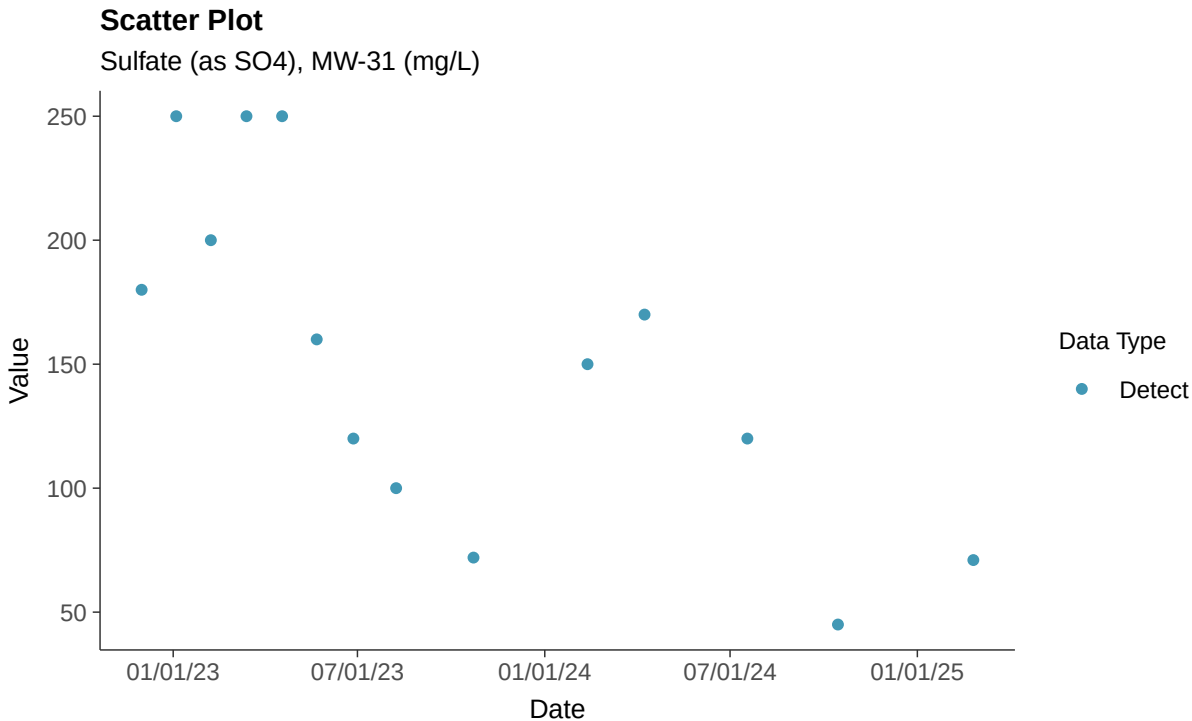


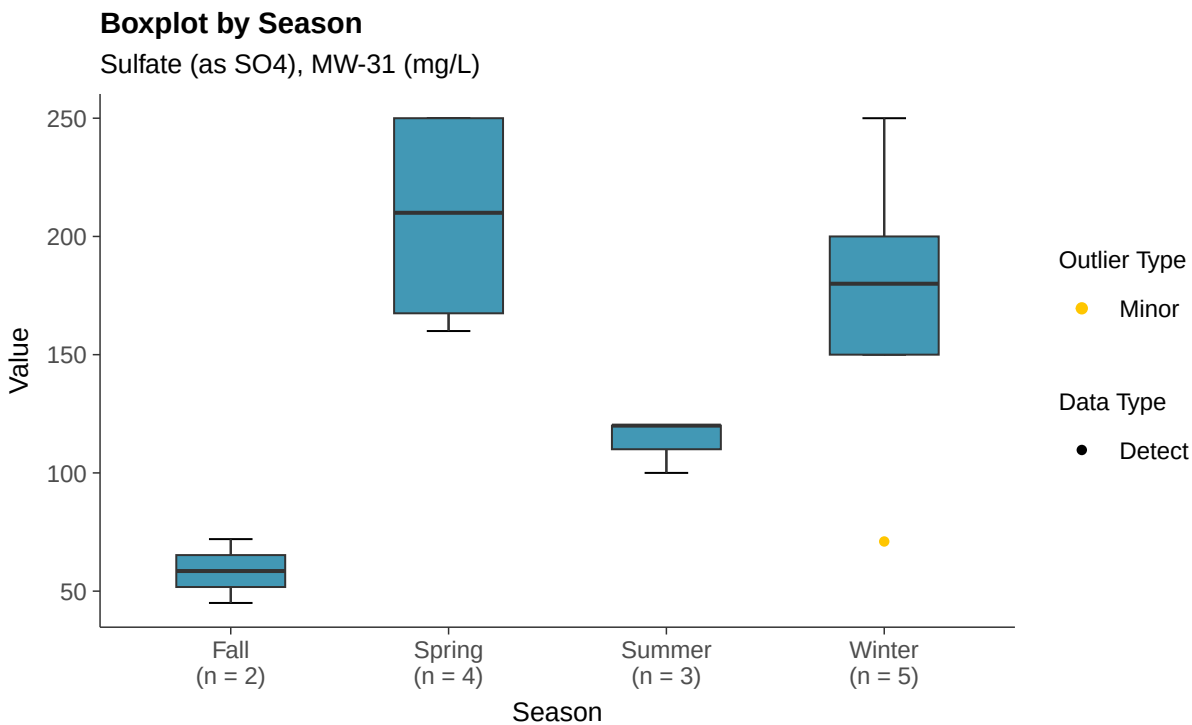
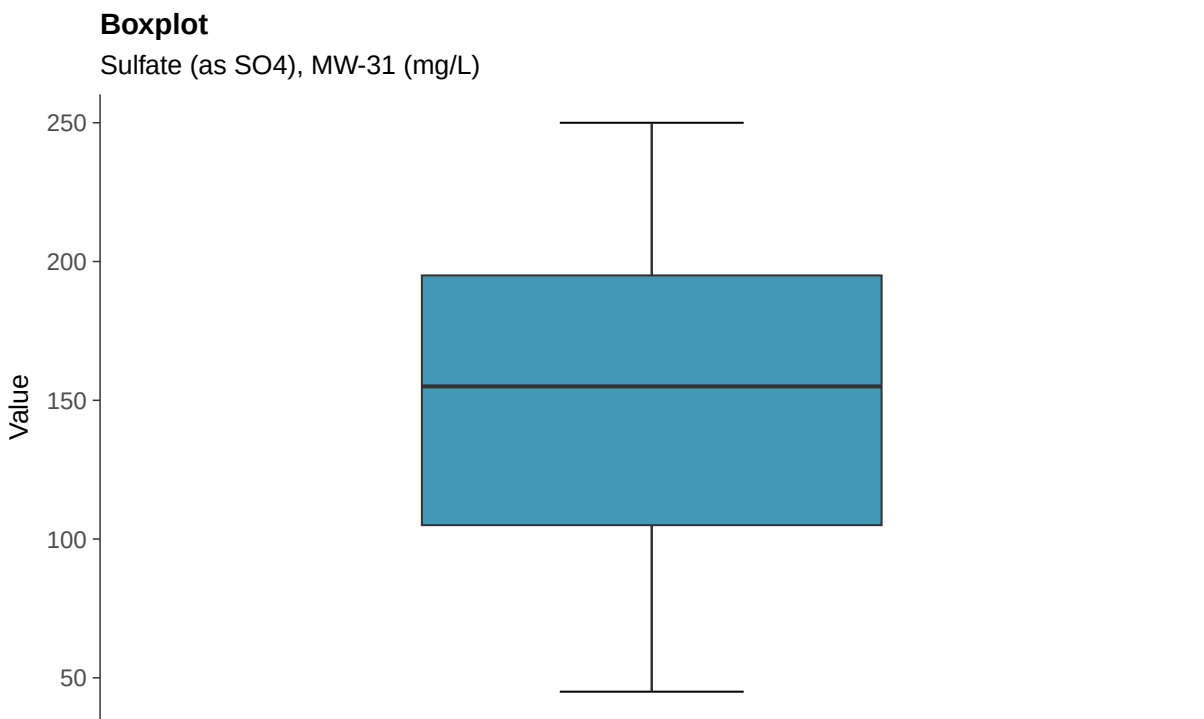


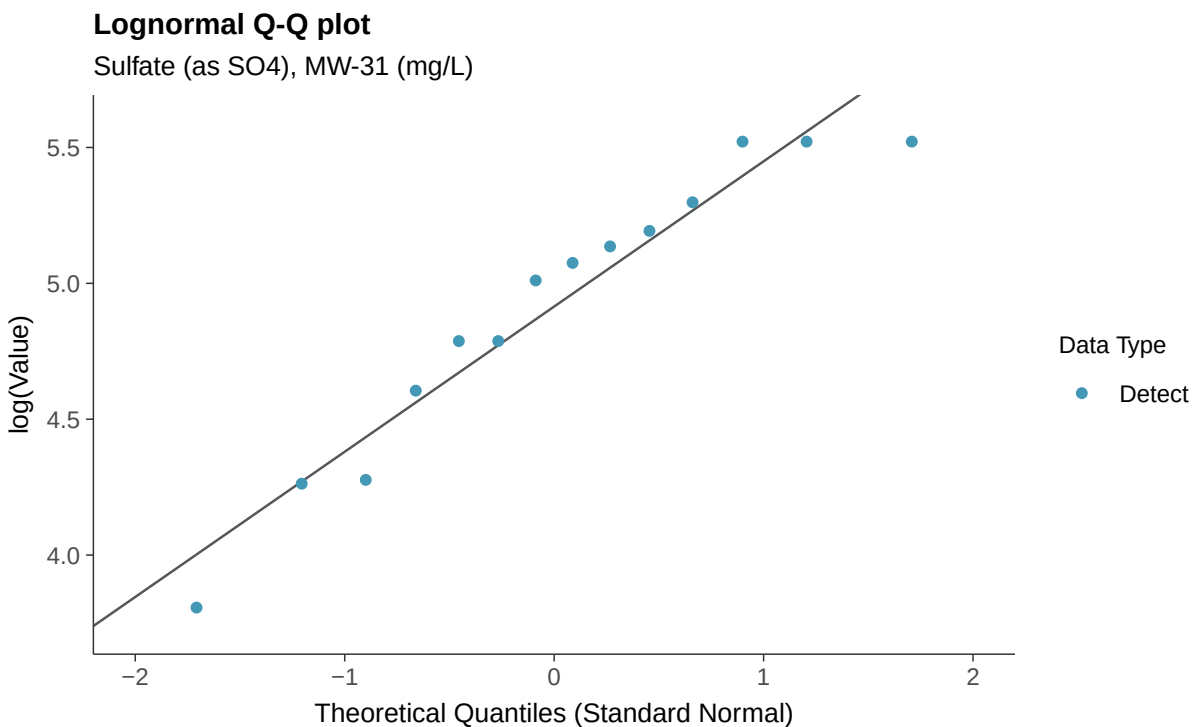
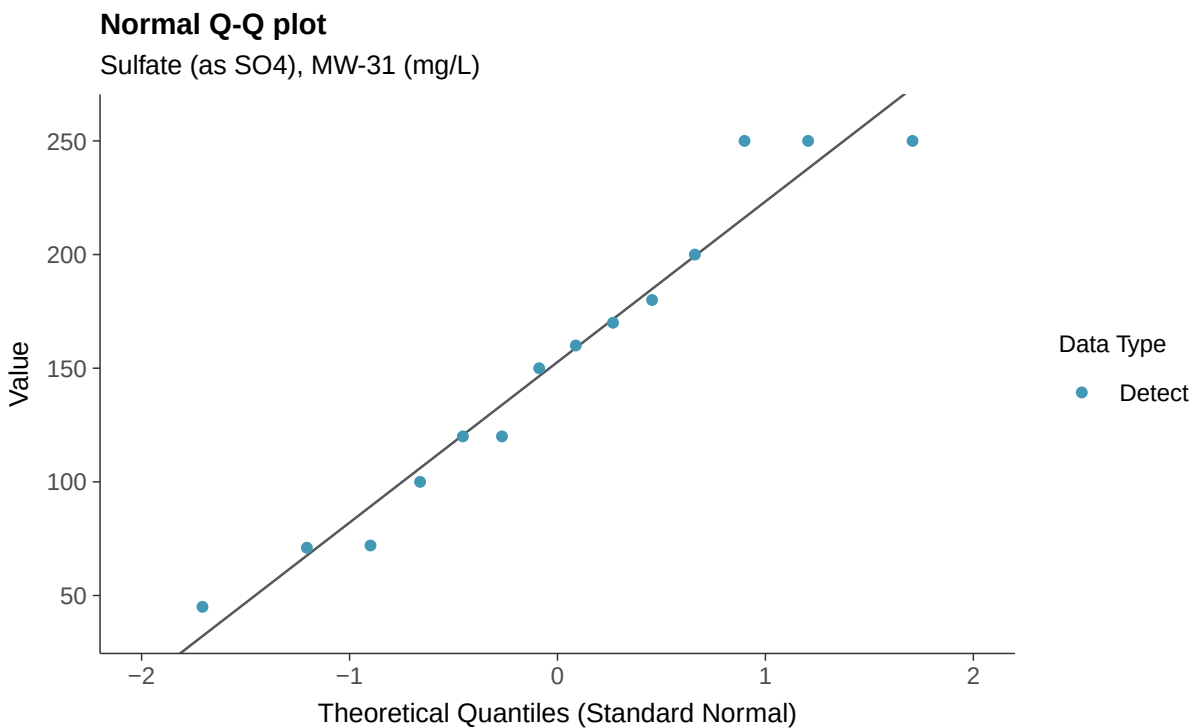


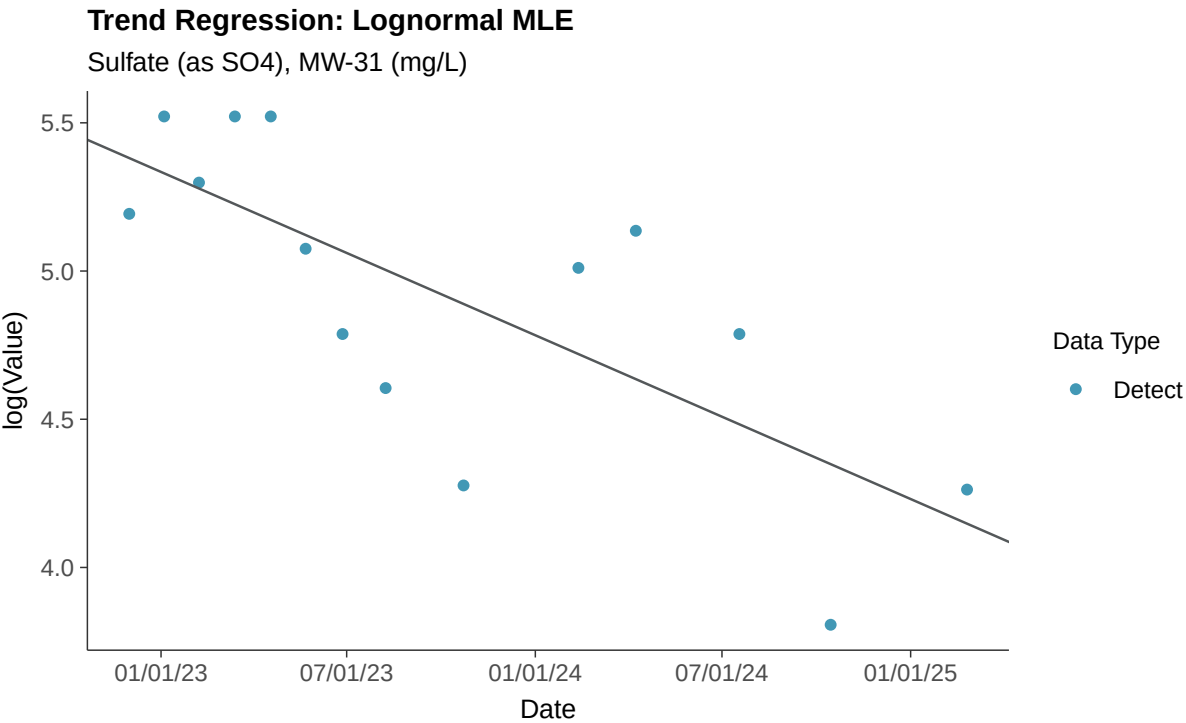
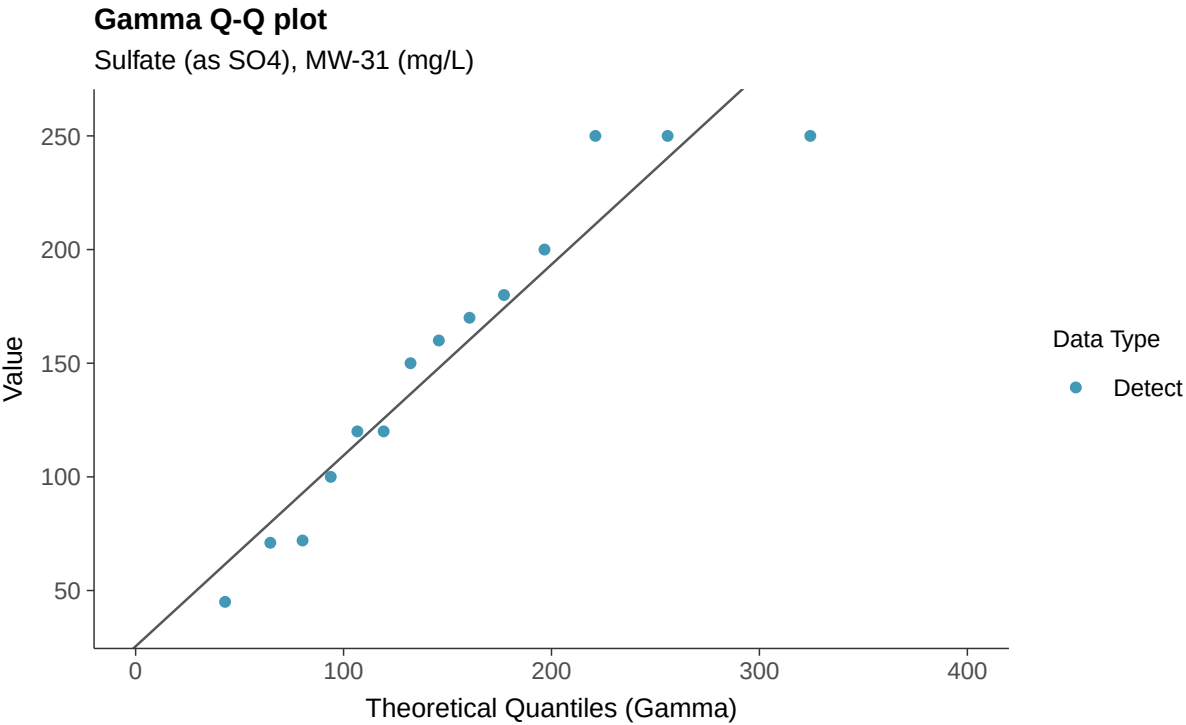
Appendix III: Sulfate (as SO₄), MW-31

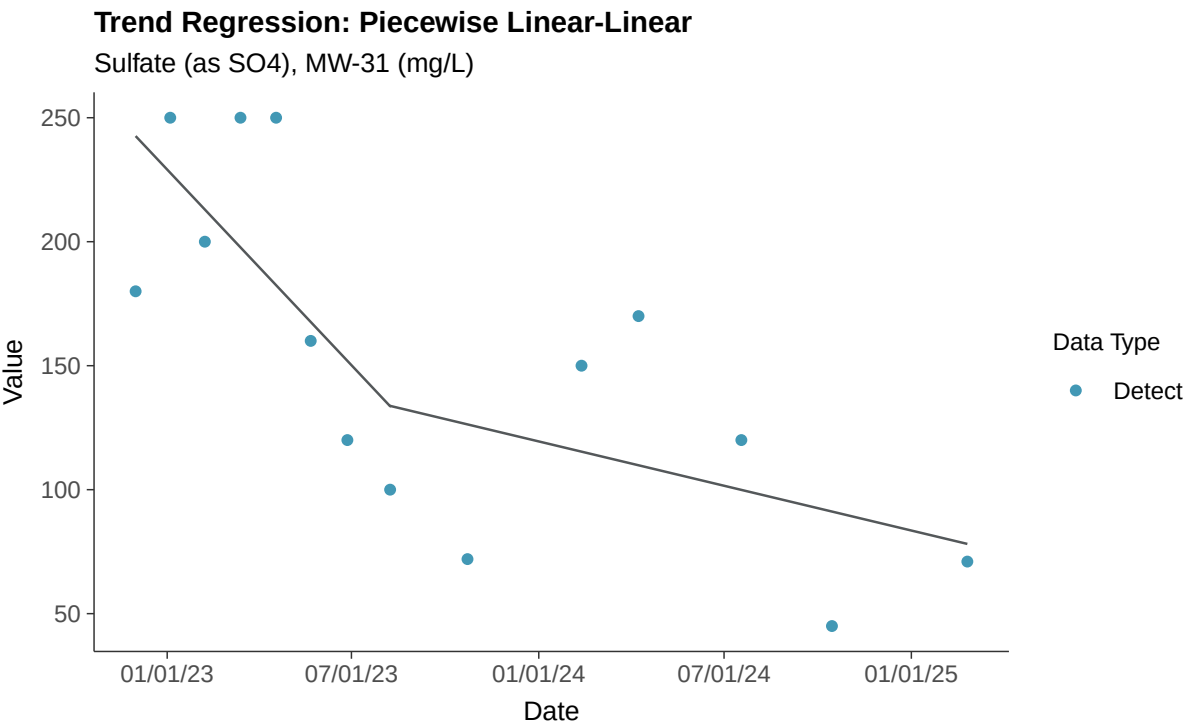
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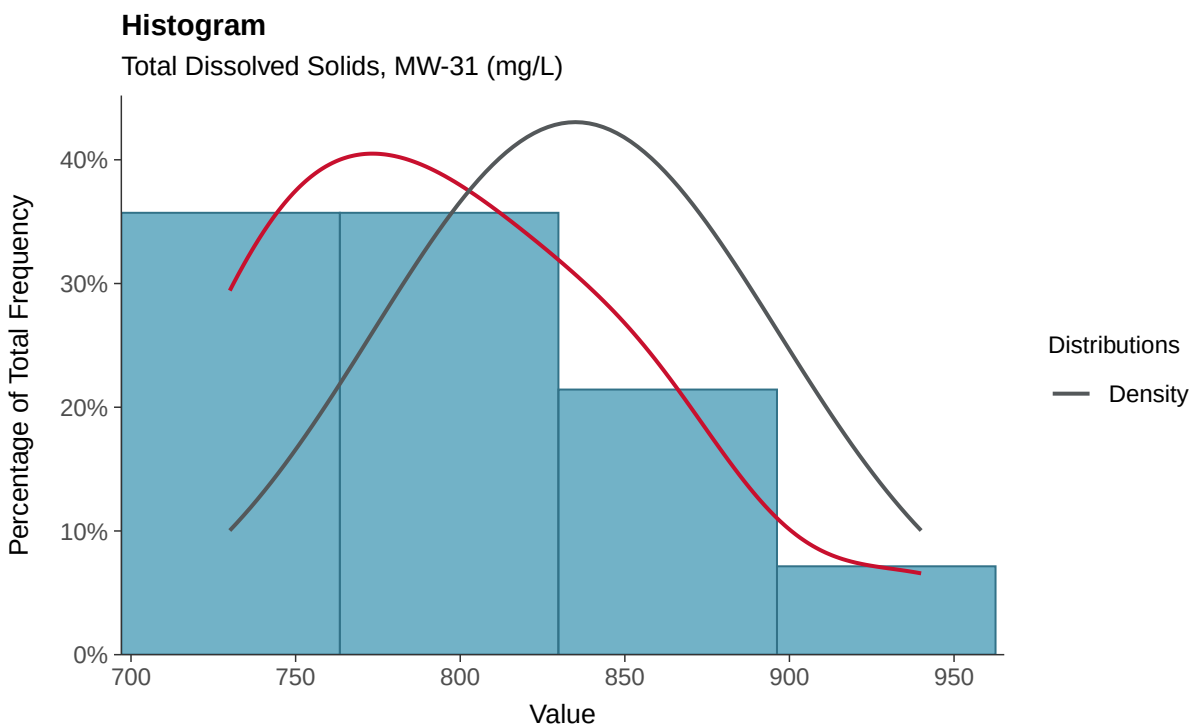
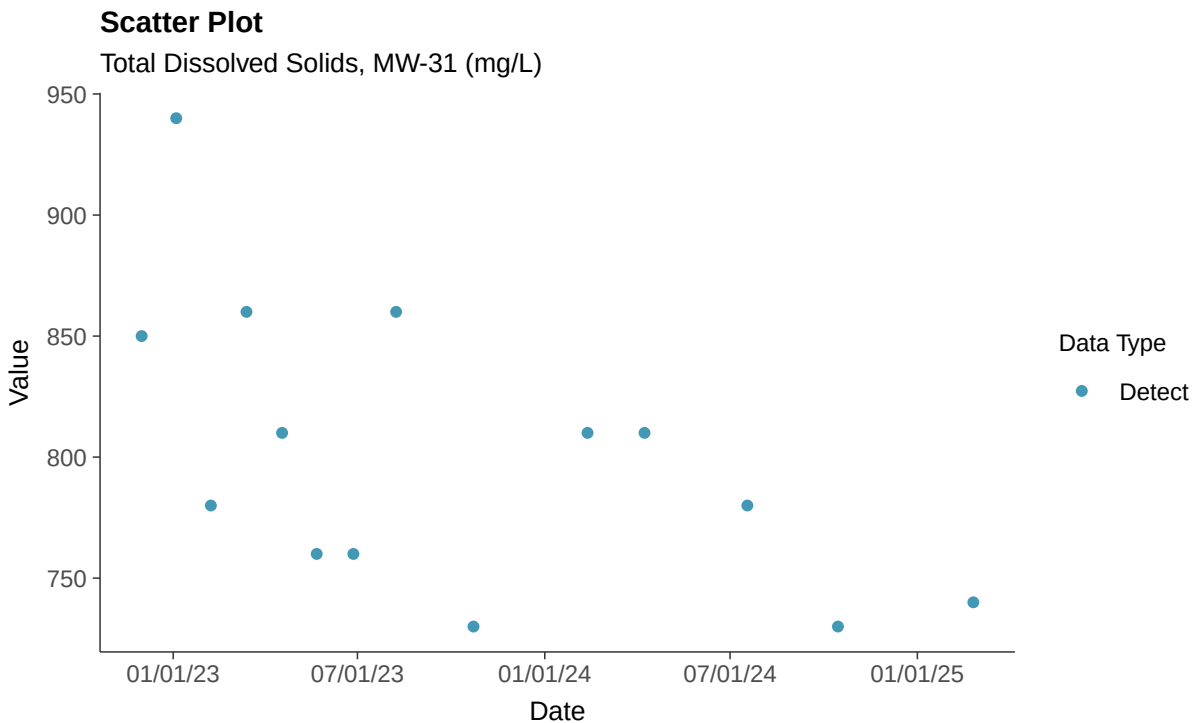


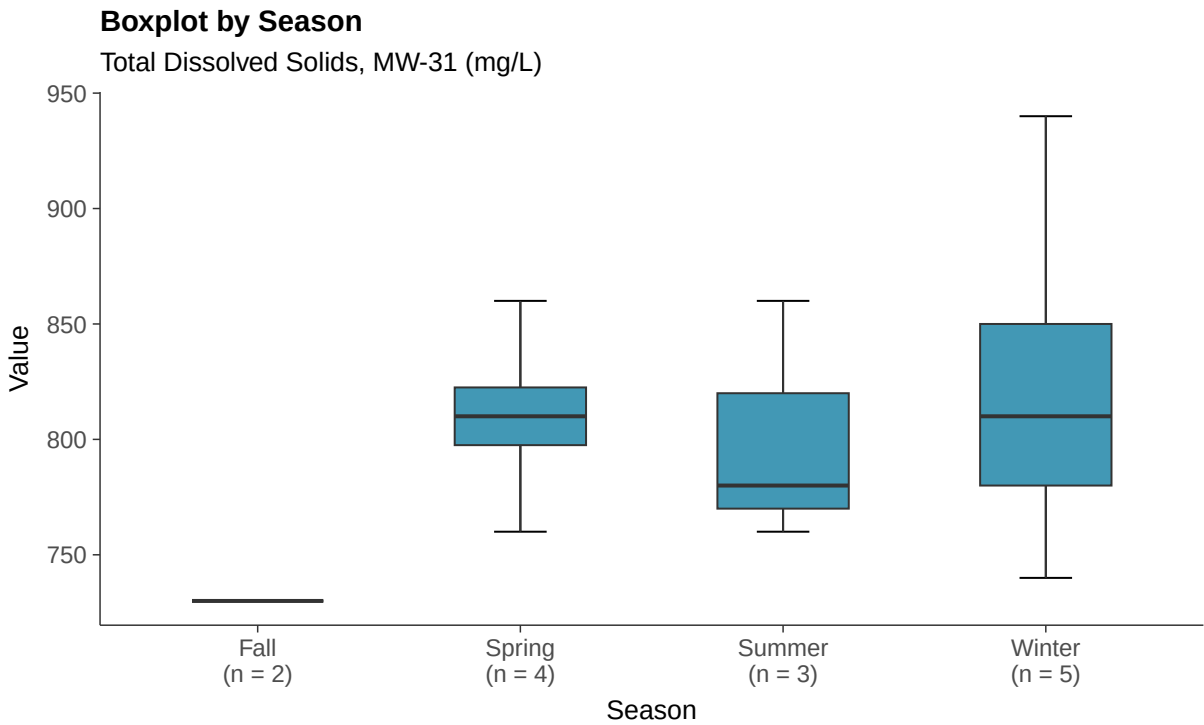
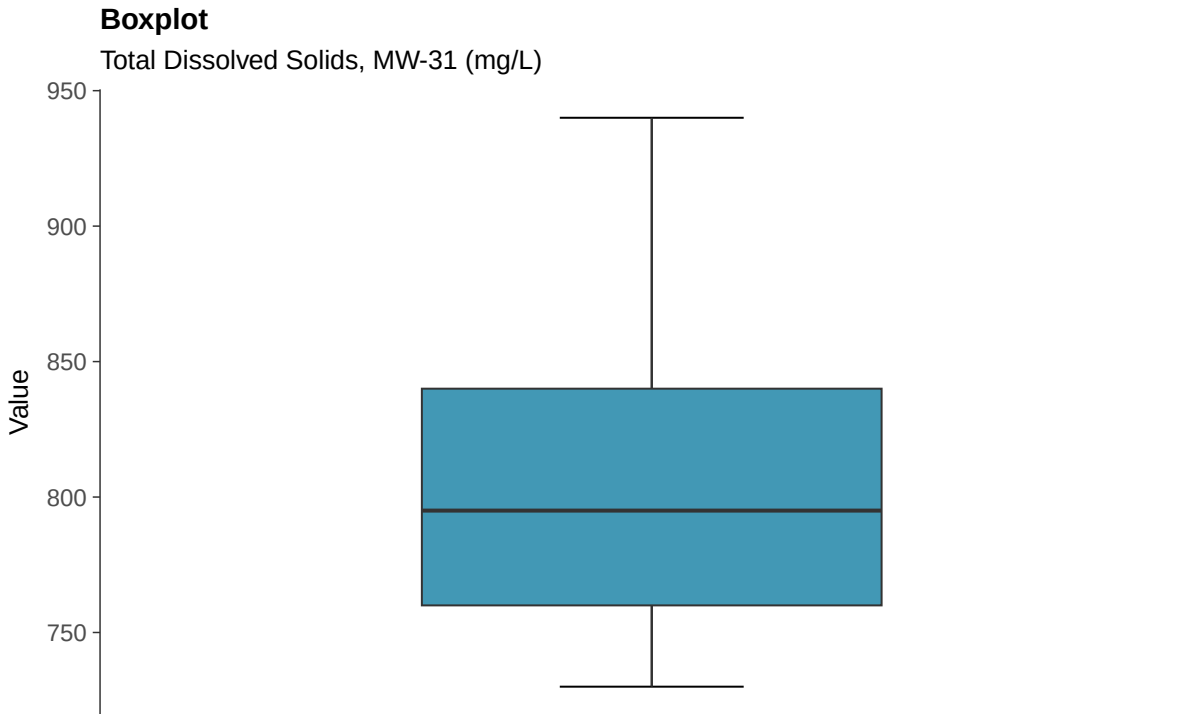


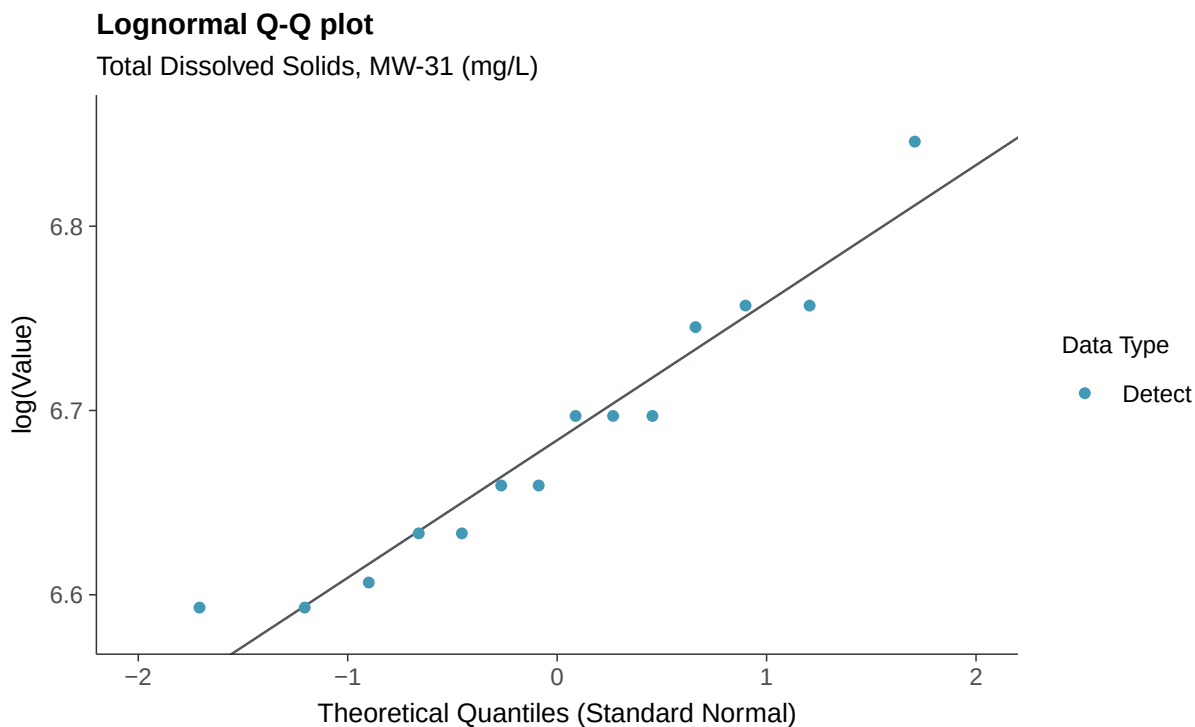
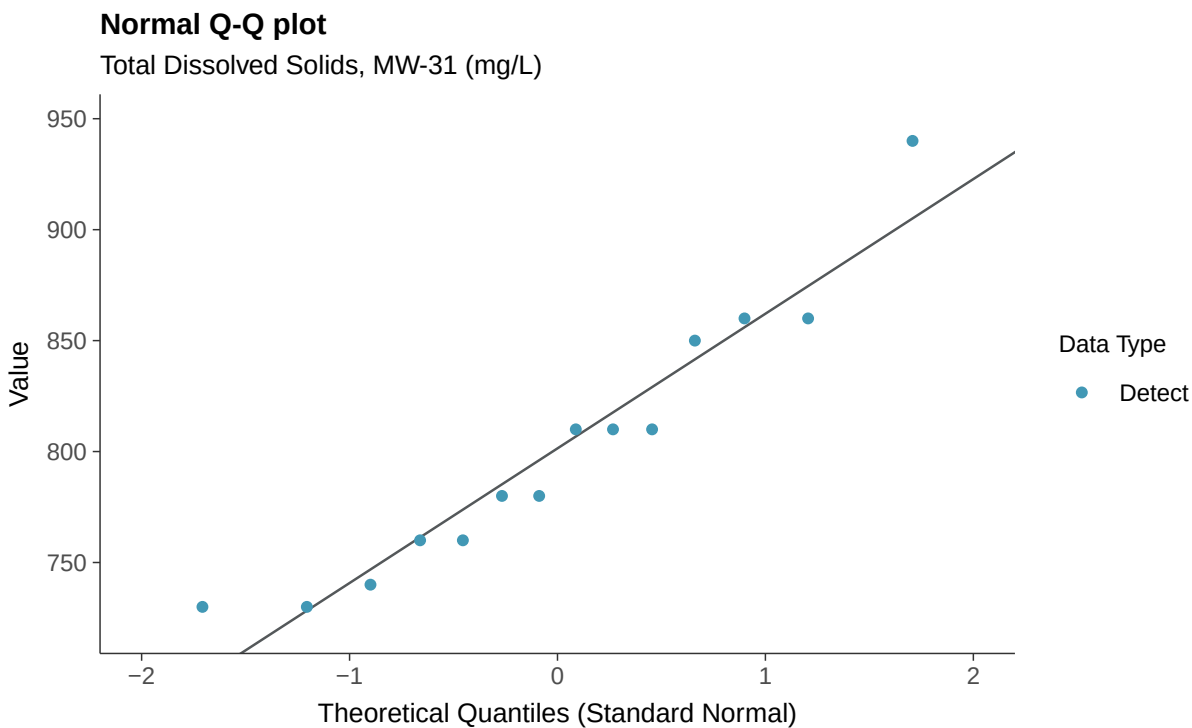


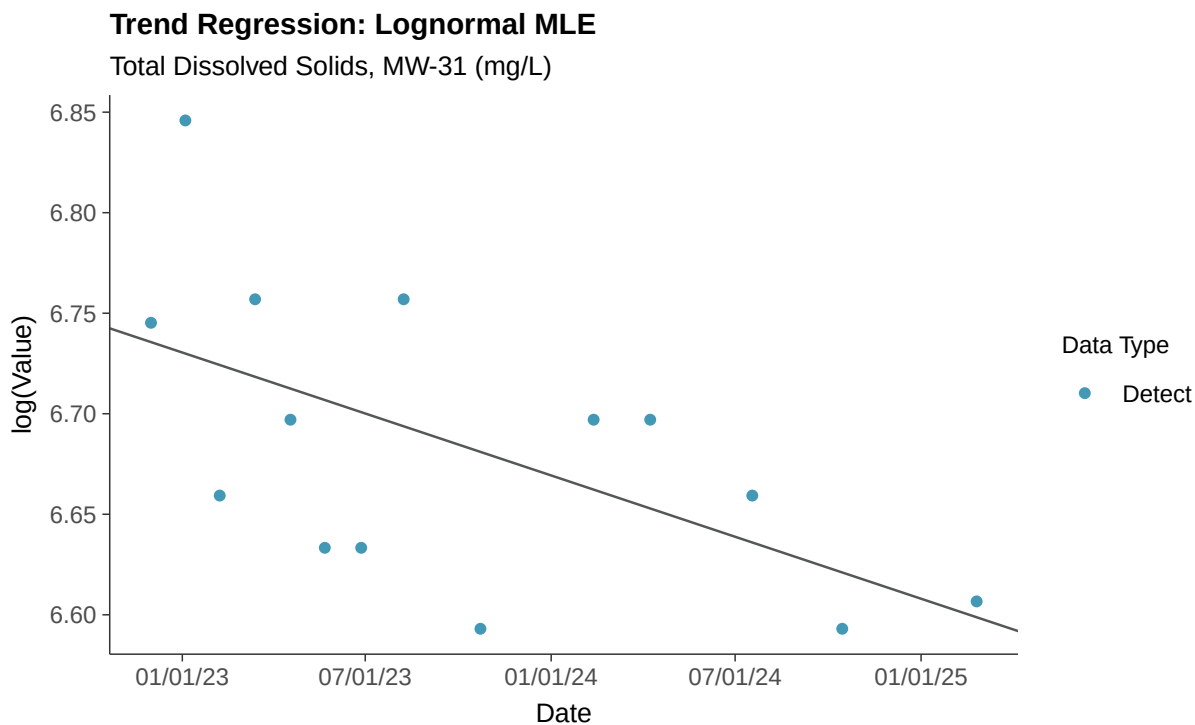
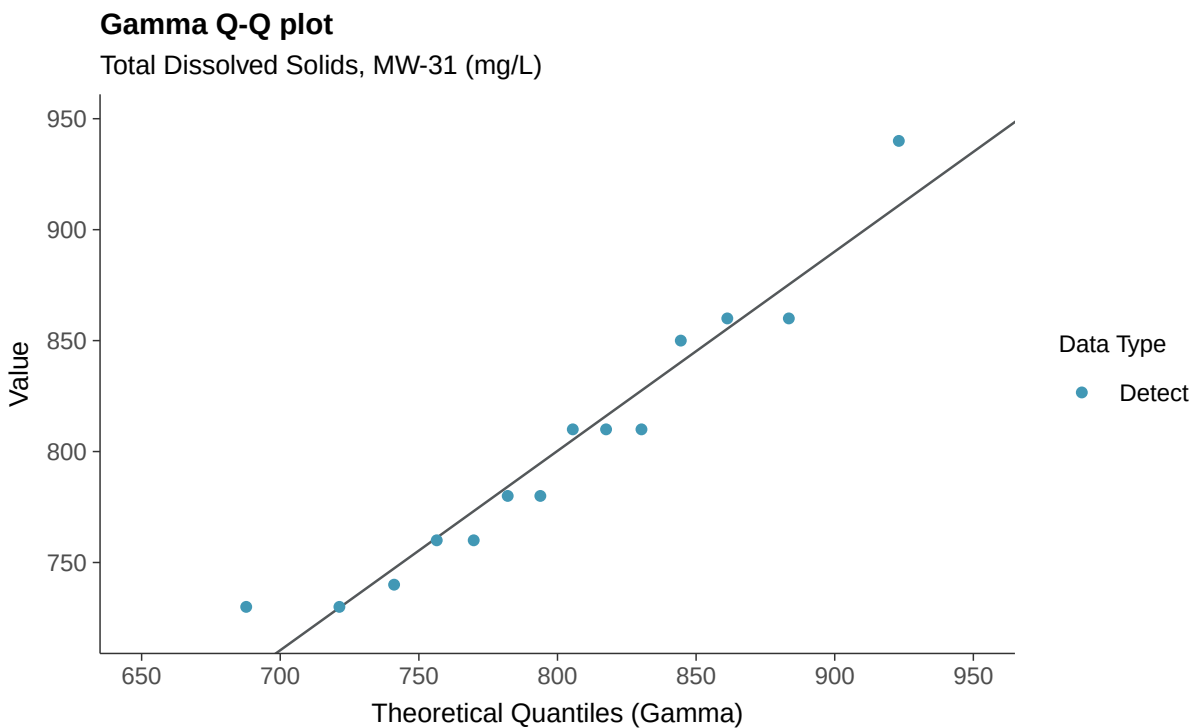
Appendix III: Total Dissolved Solids, MW-31

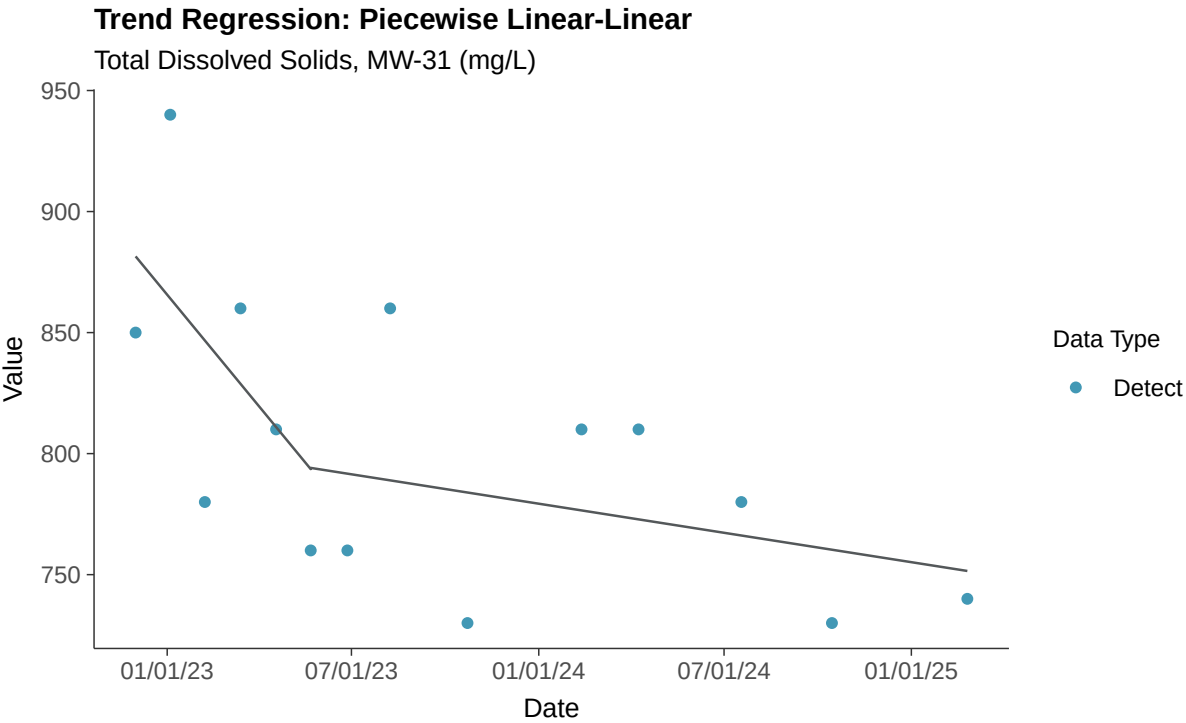
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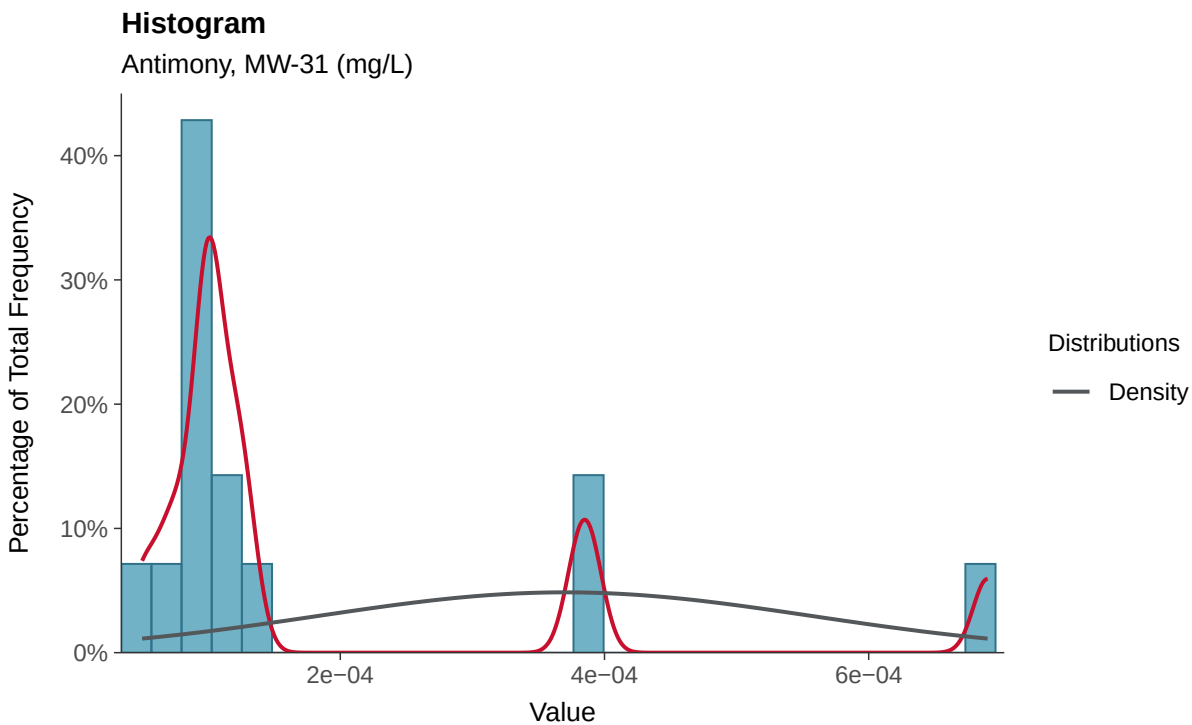
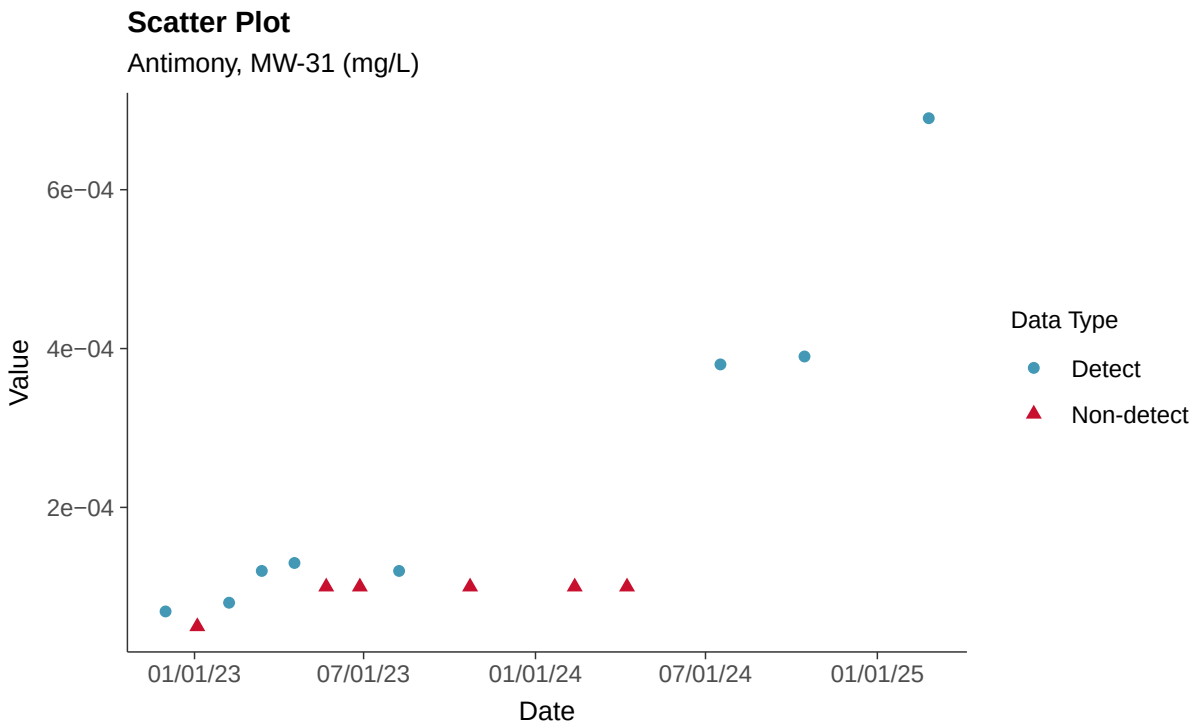


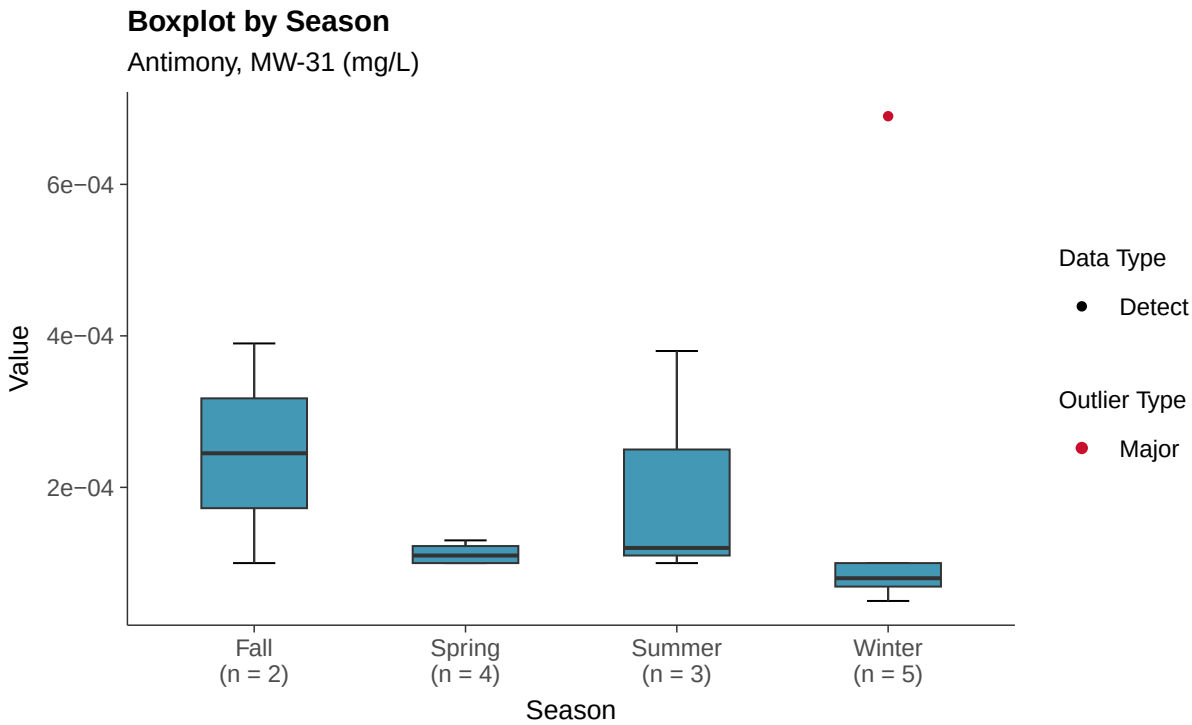
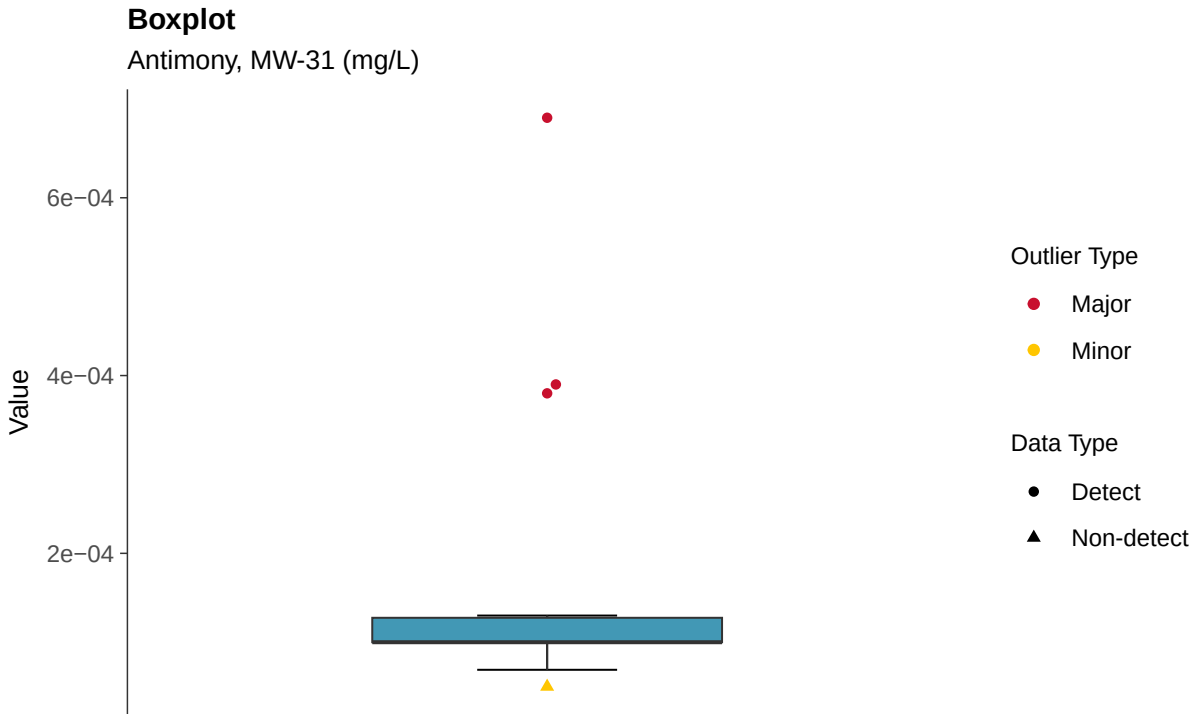




Appendix IV: Antimony, MW-31

ID: 41_1_4_101

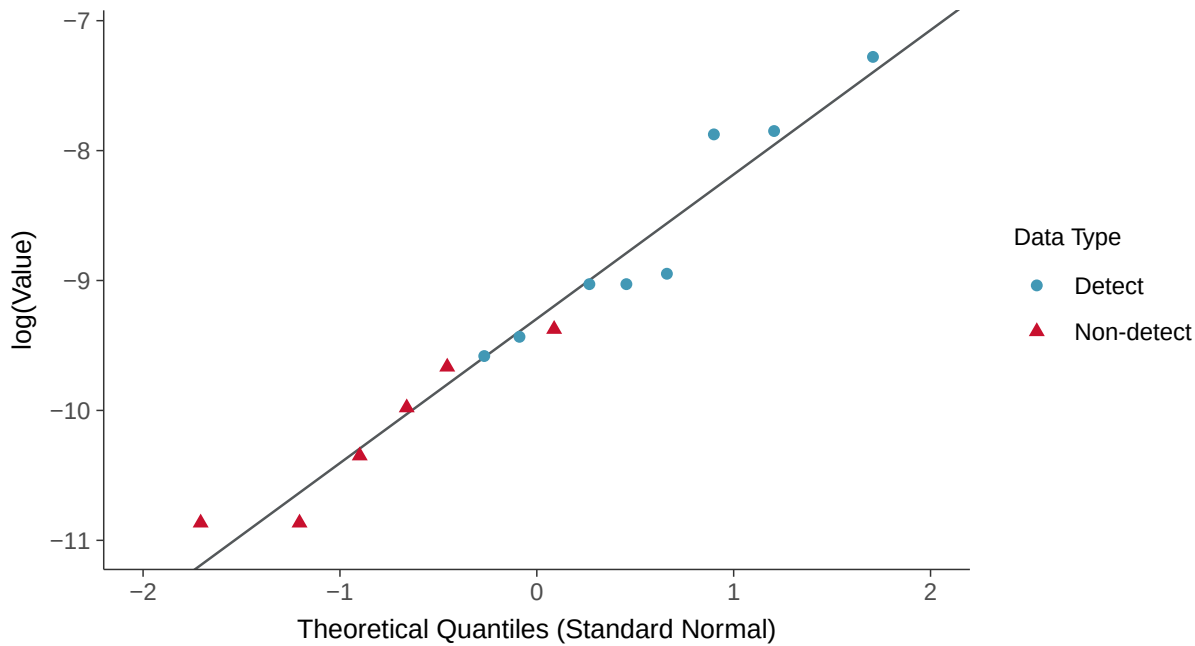






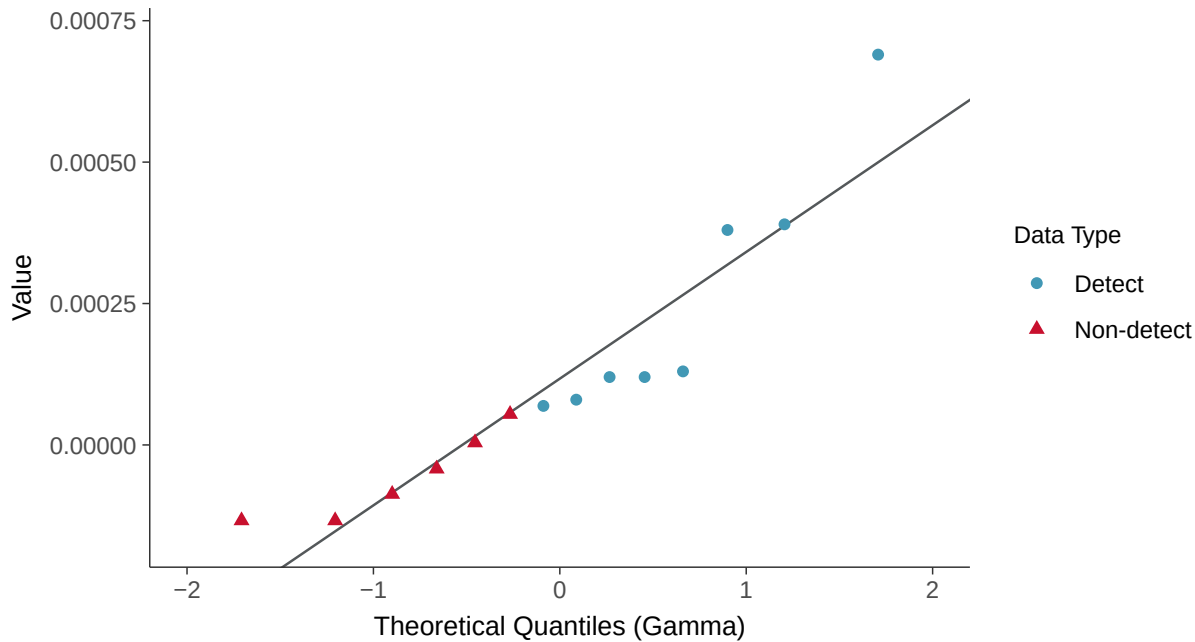
Lognormal Q-Q plot using ROS Imputed Estimates

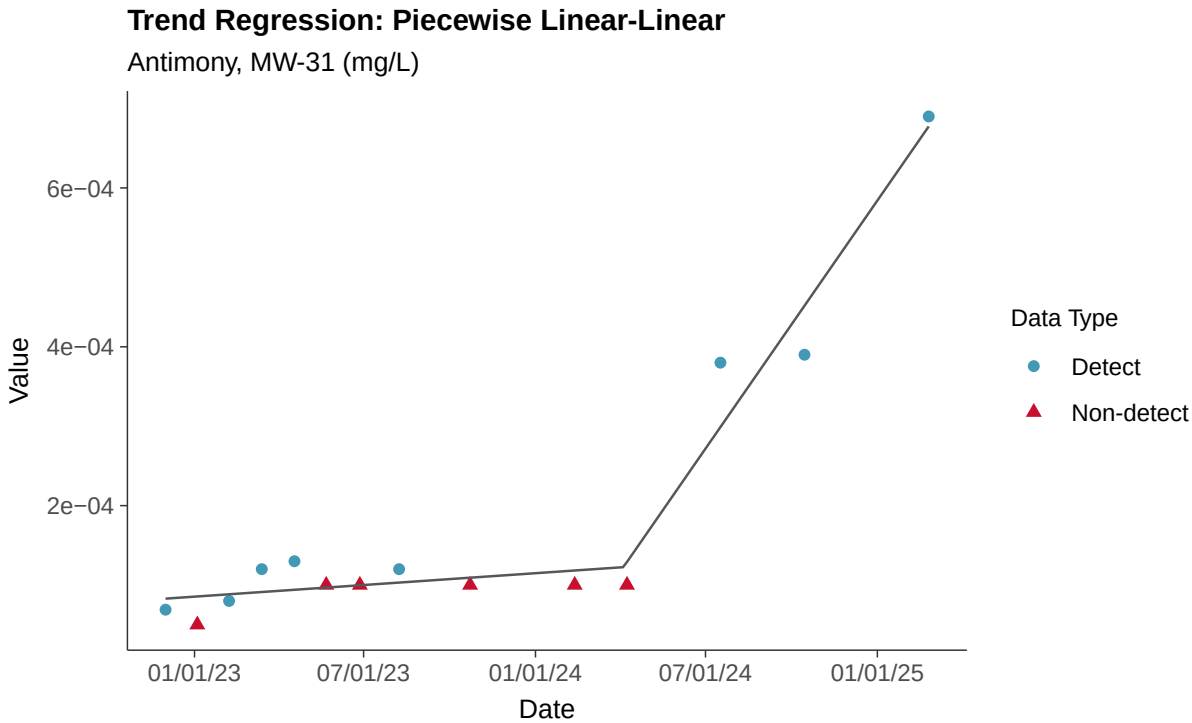
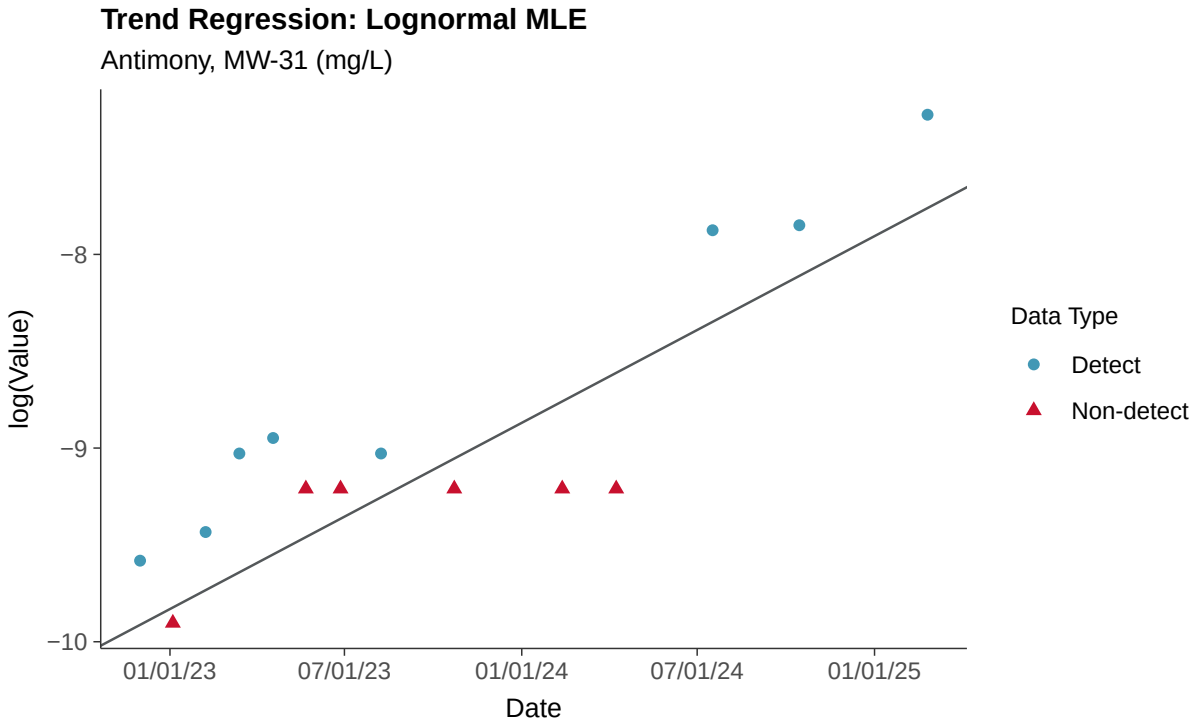
Antimony, MW-31 (mg/L)

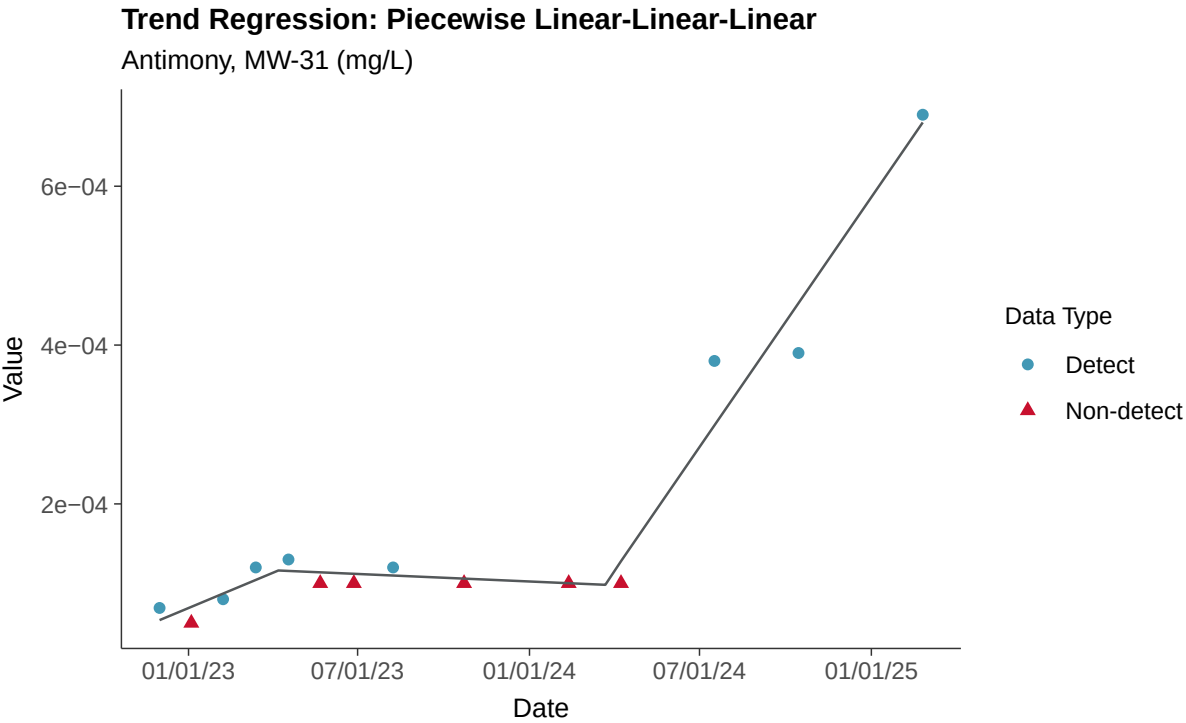


Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-31 (mg/L)



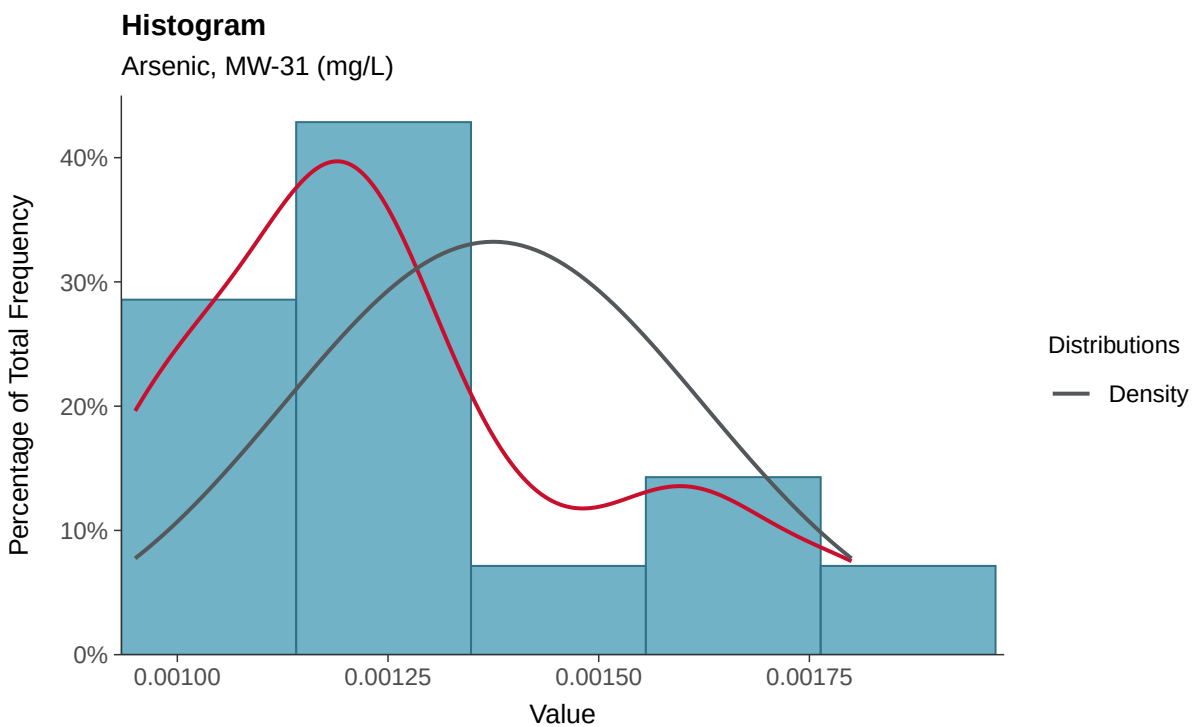
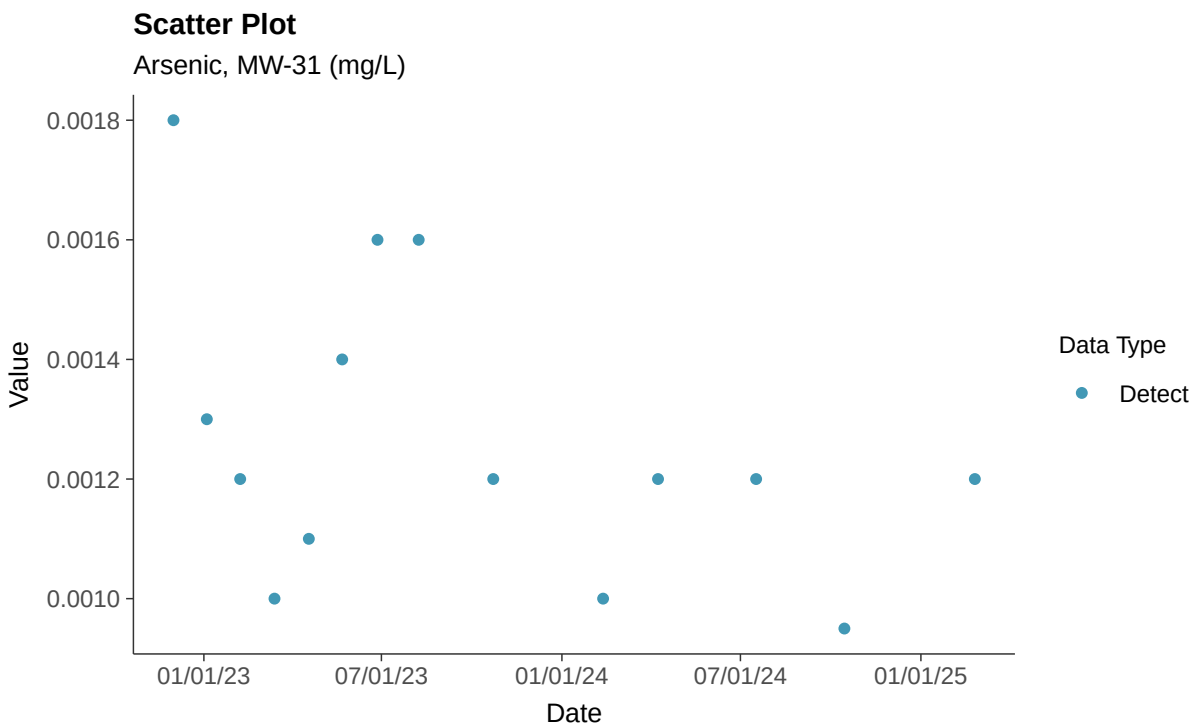


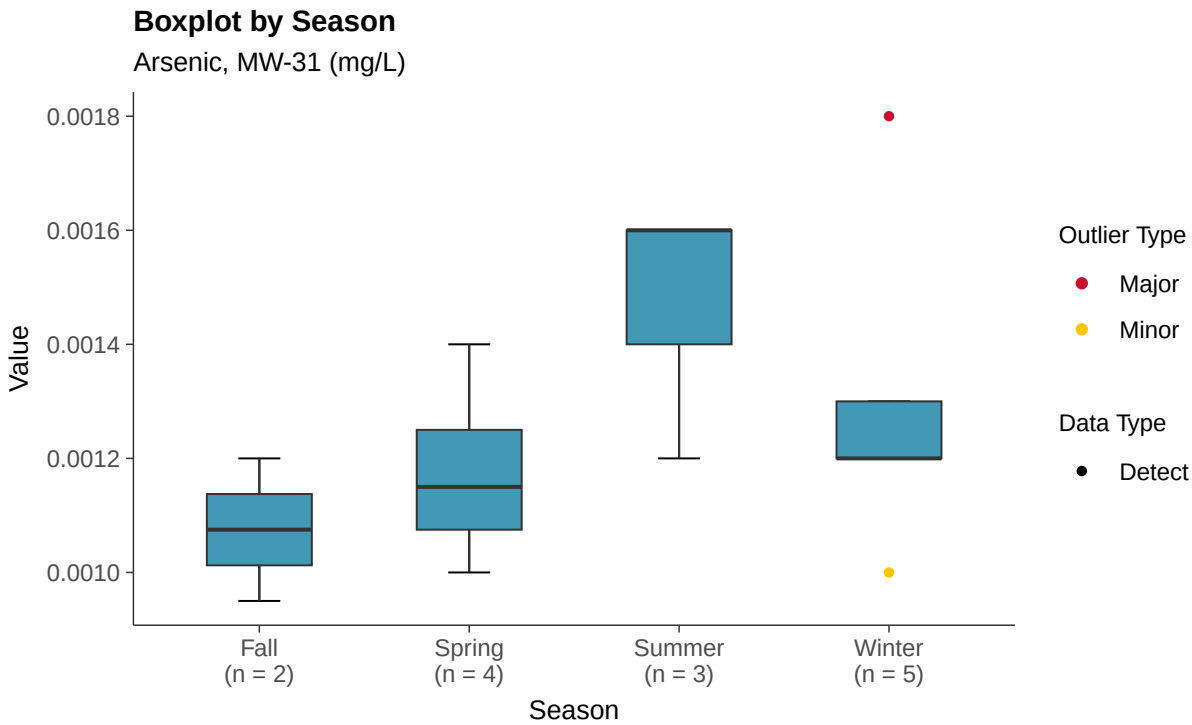
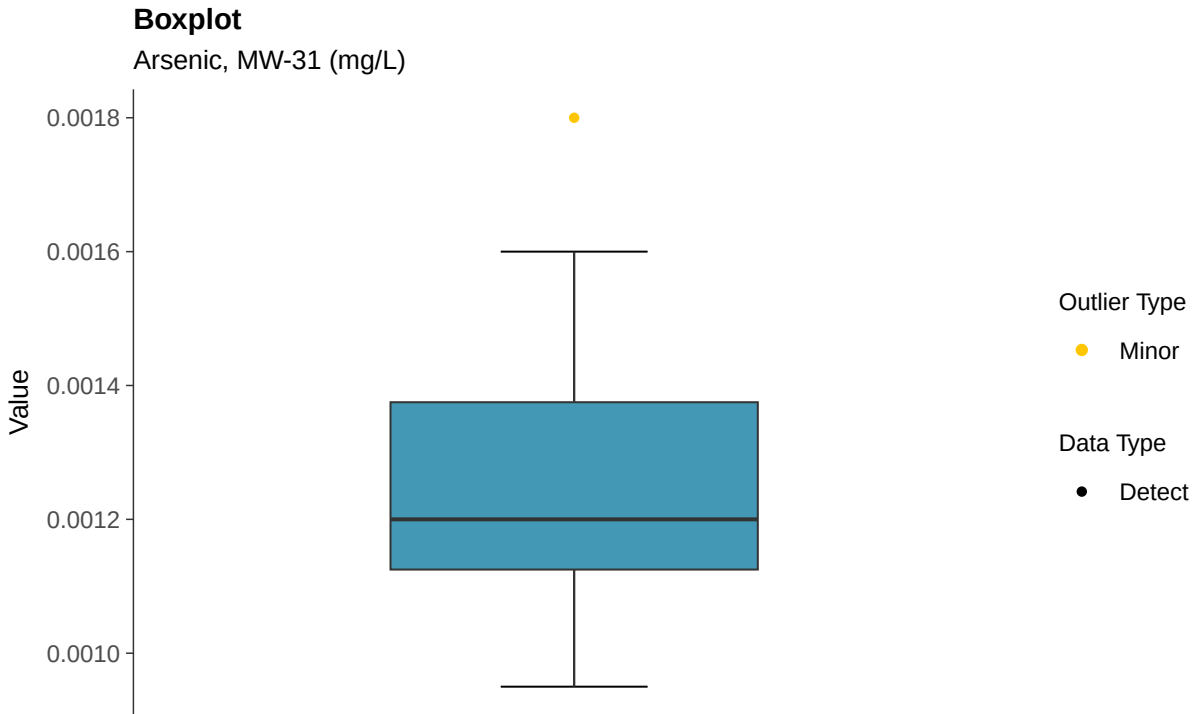


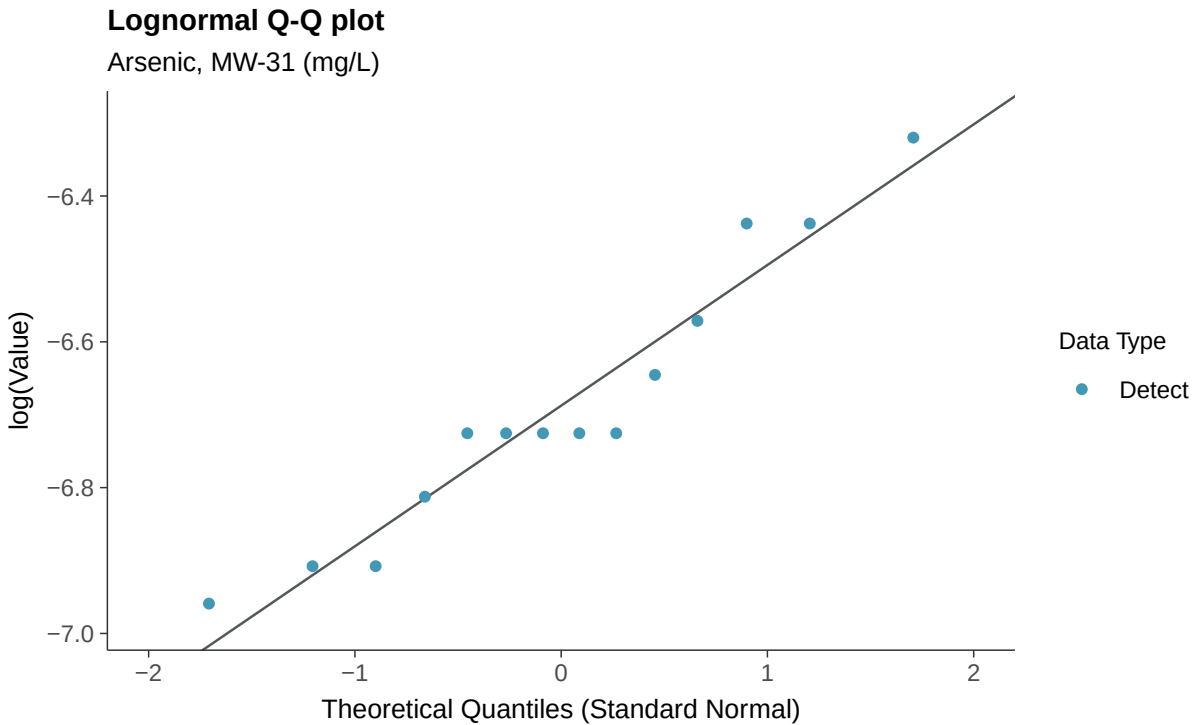
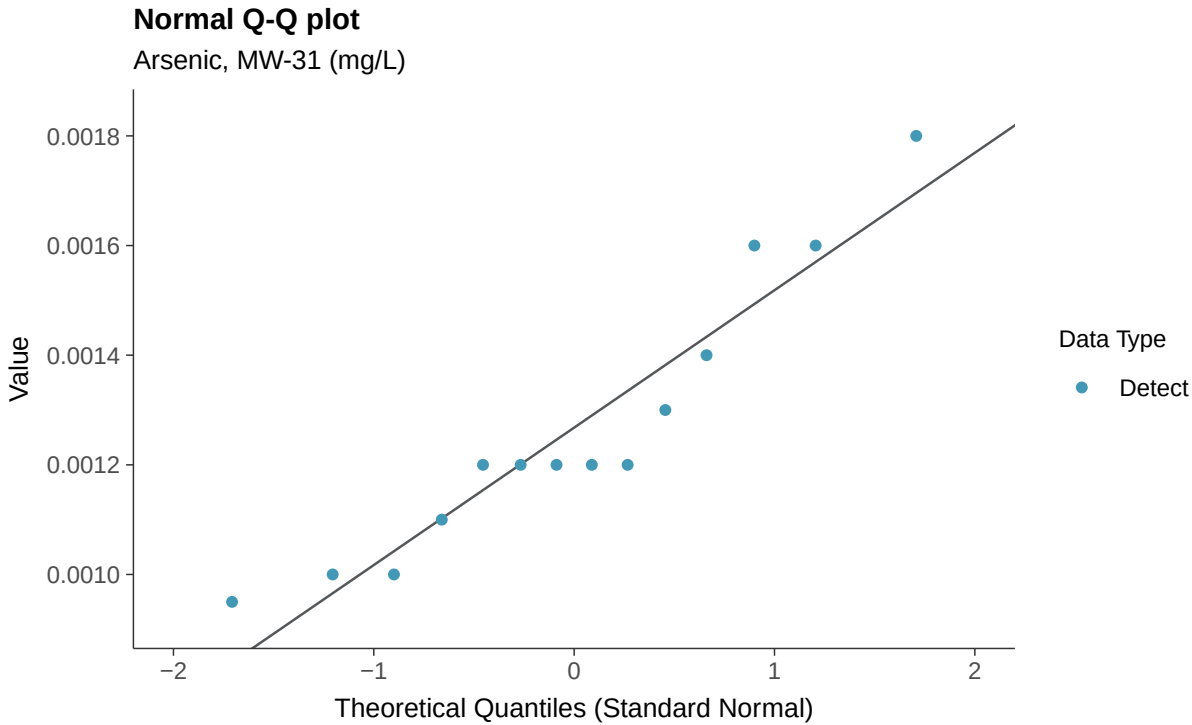


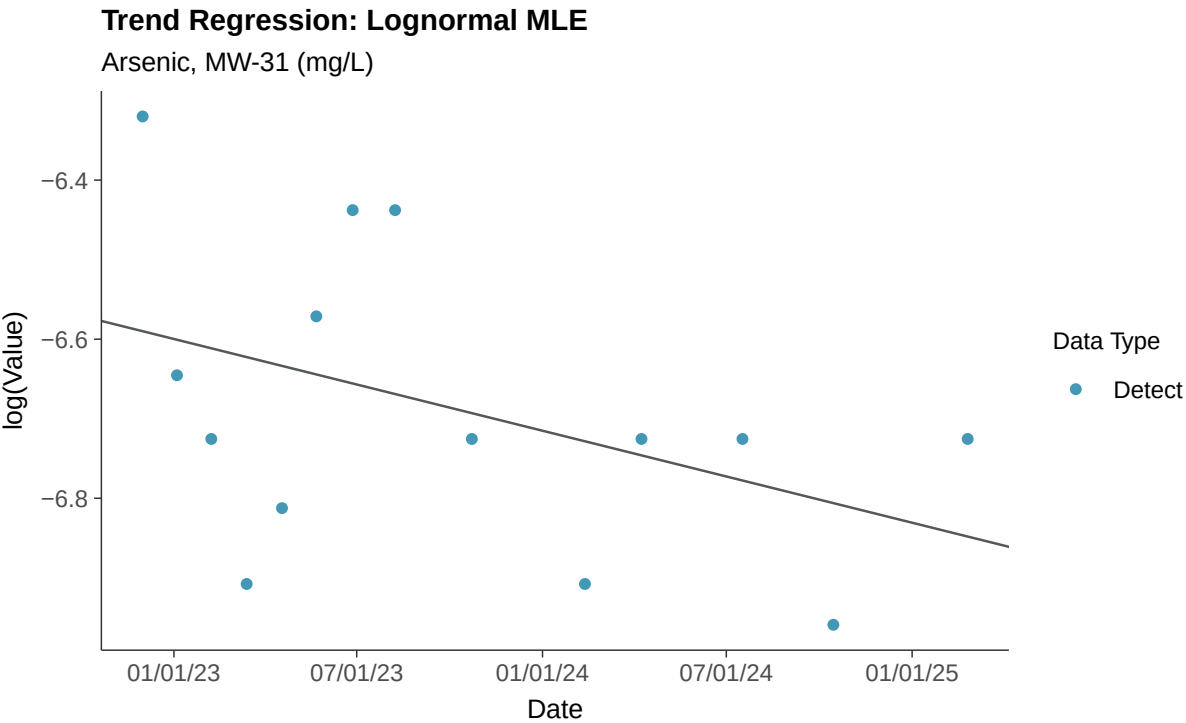
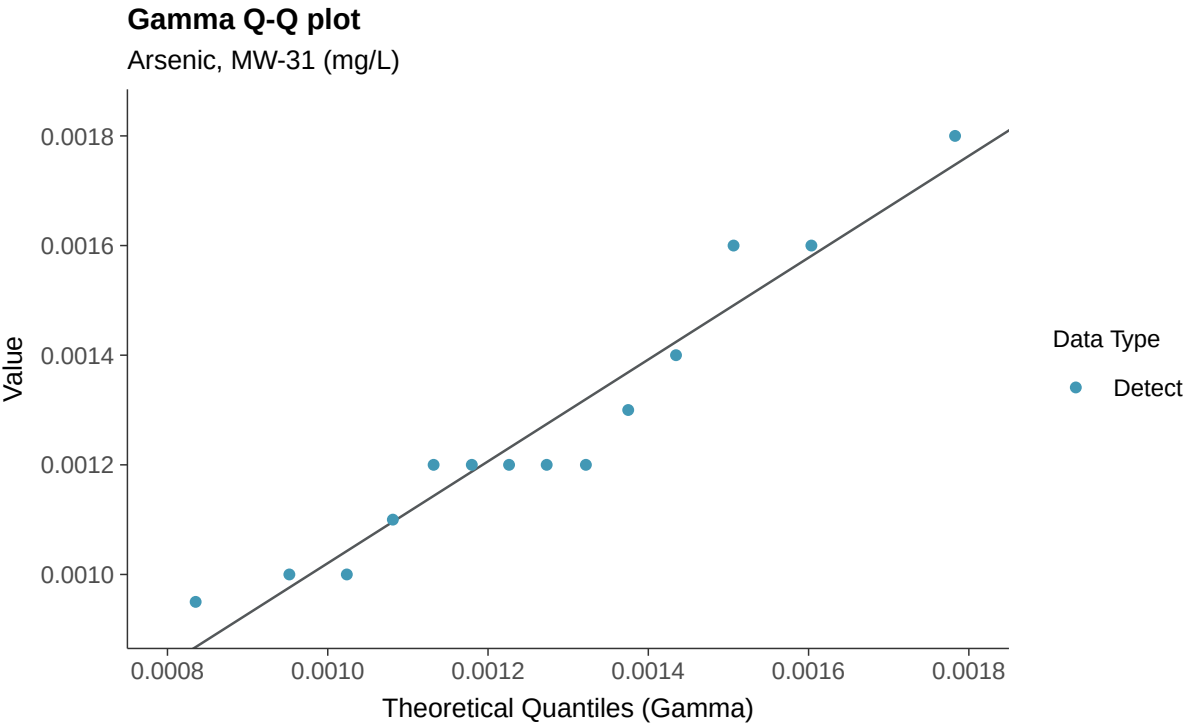
Appendix IV: Arsenic, MW-31

ID: 41_1_4_102





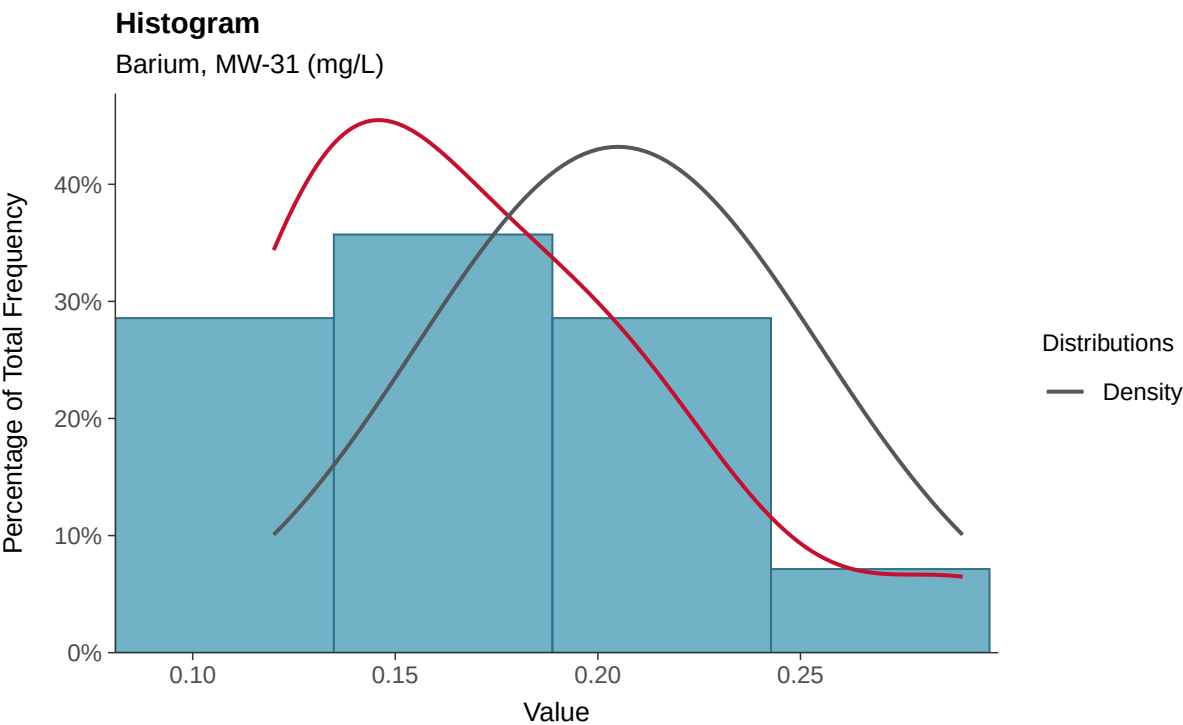
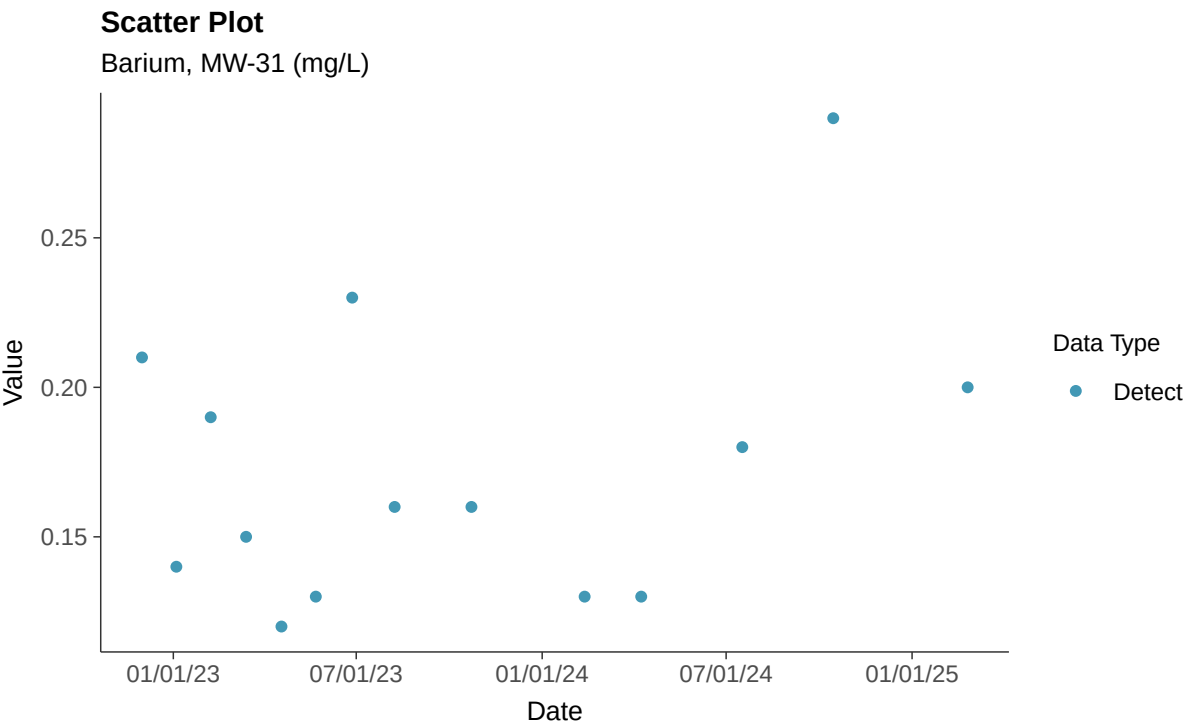


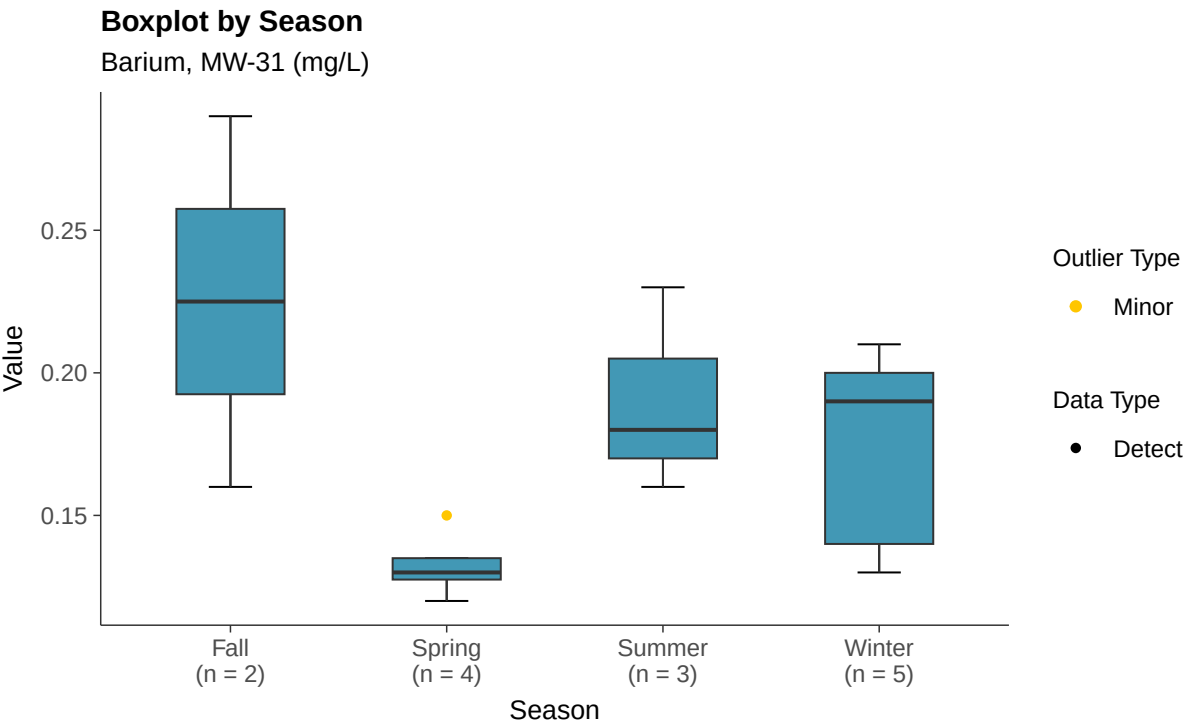
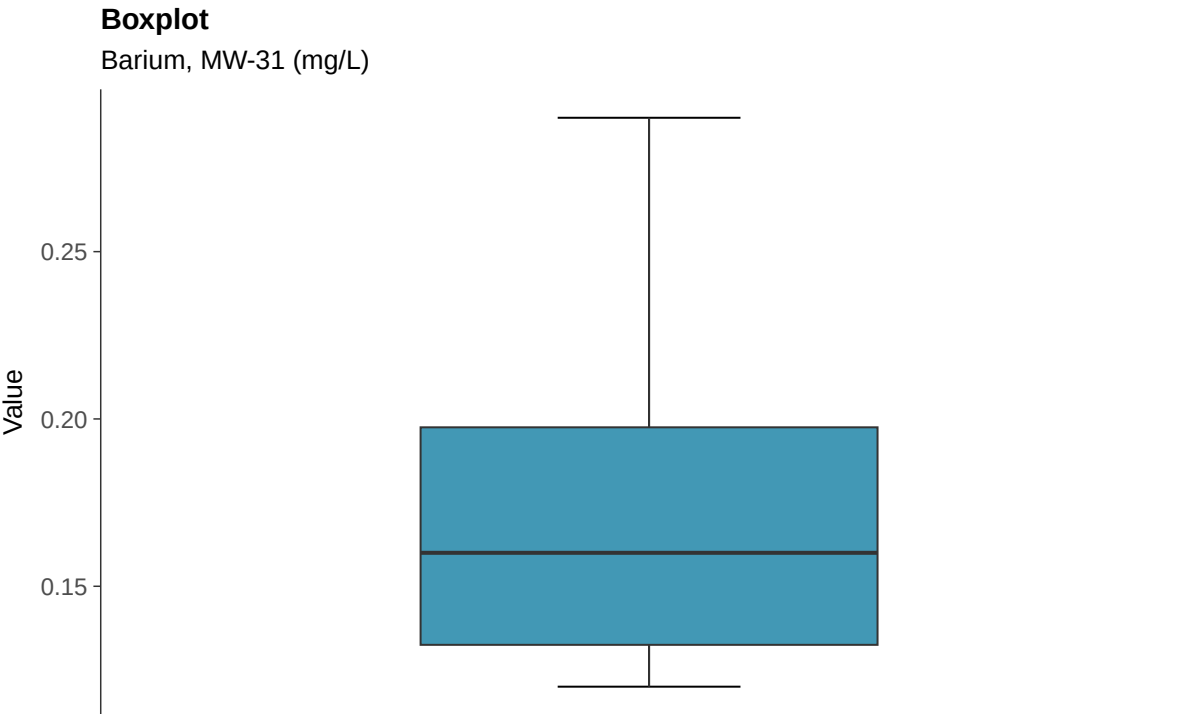


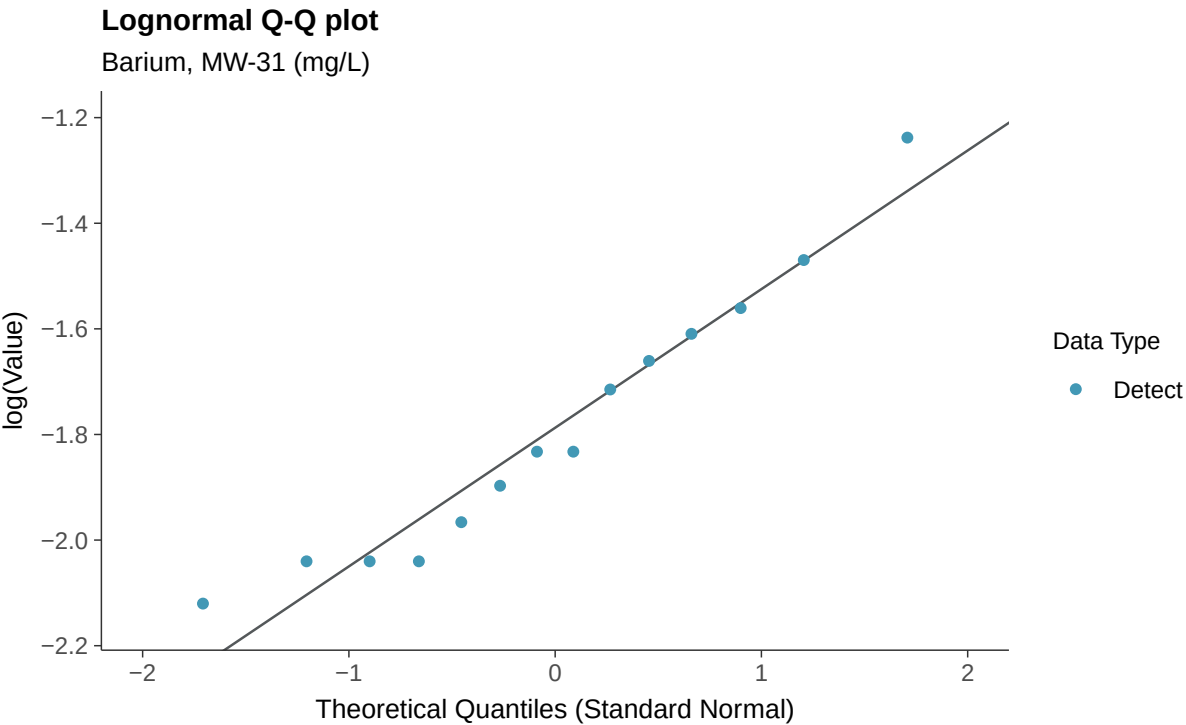
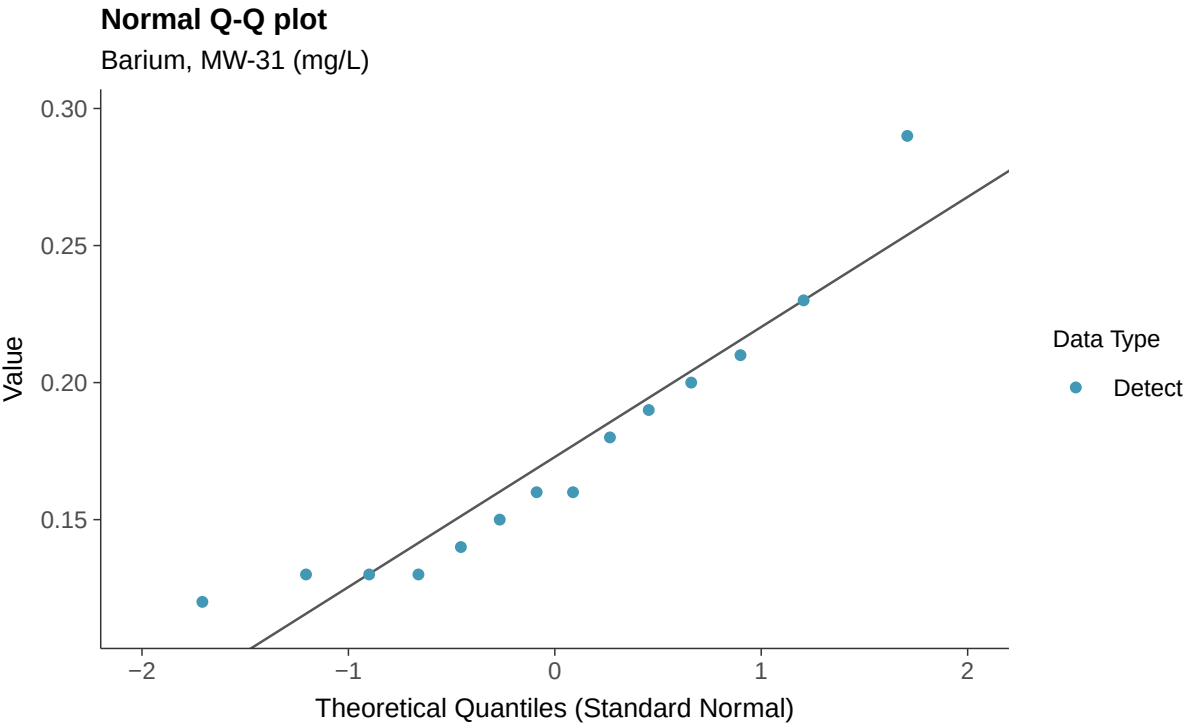


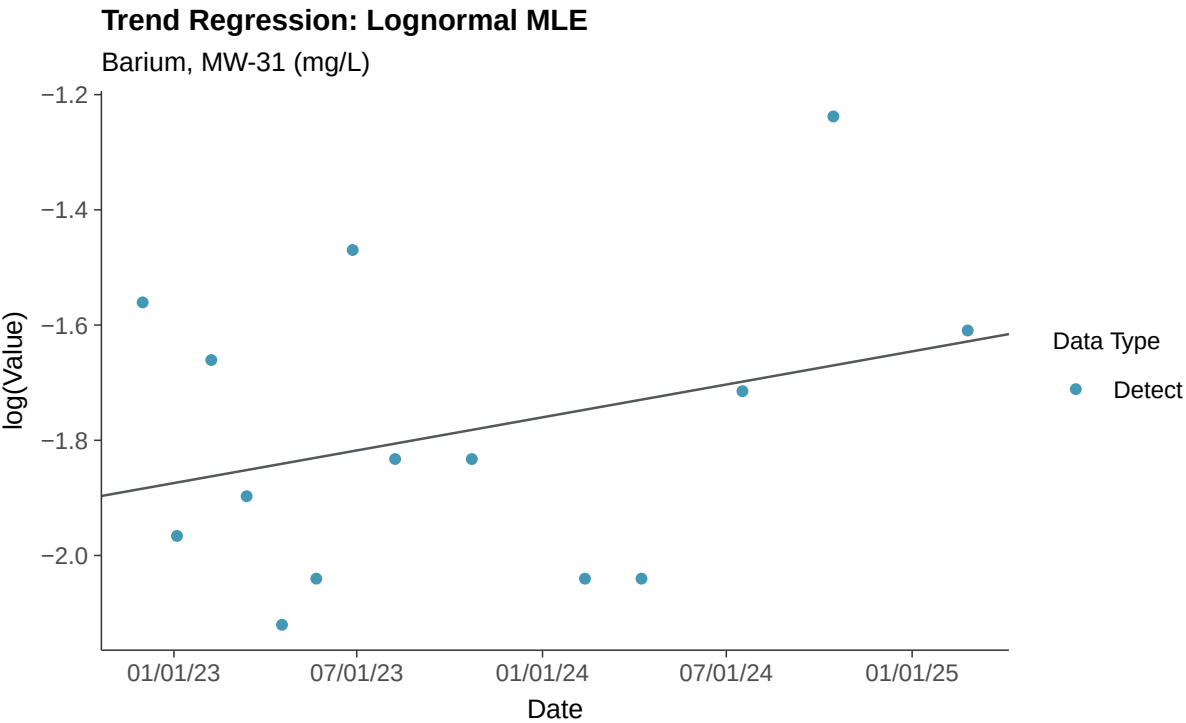
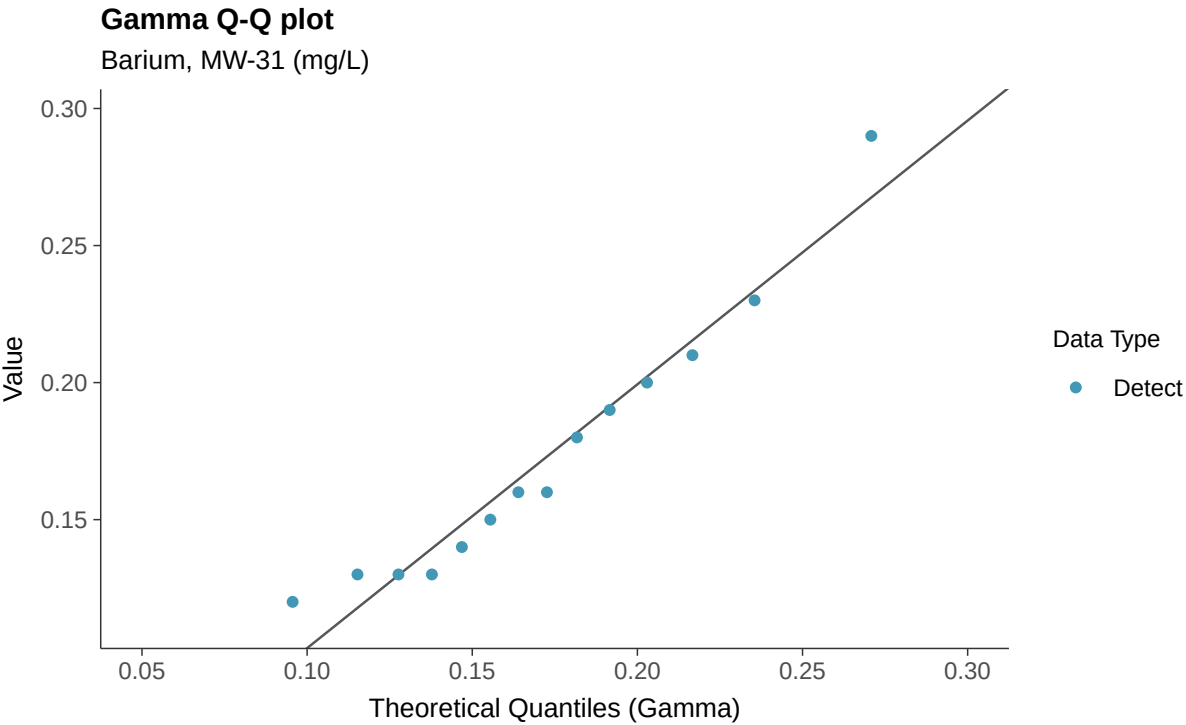
Appendix IV: Barium, MW-31

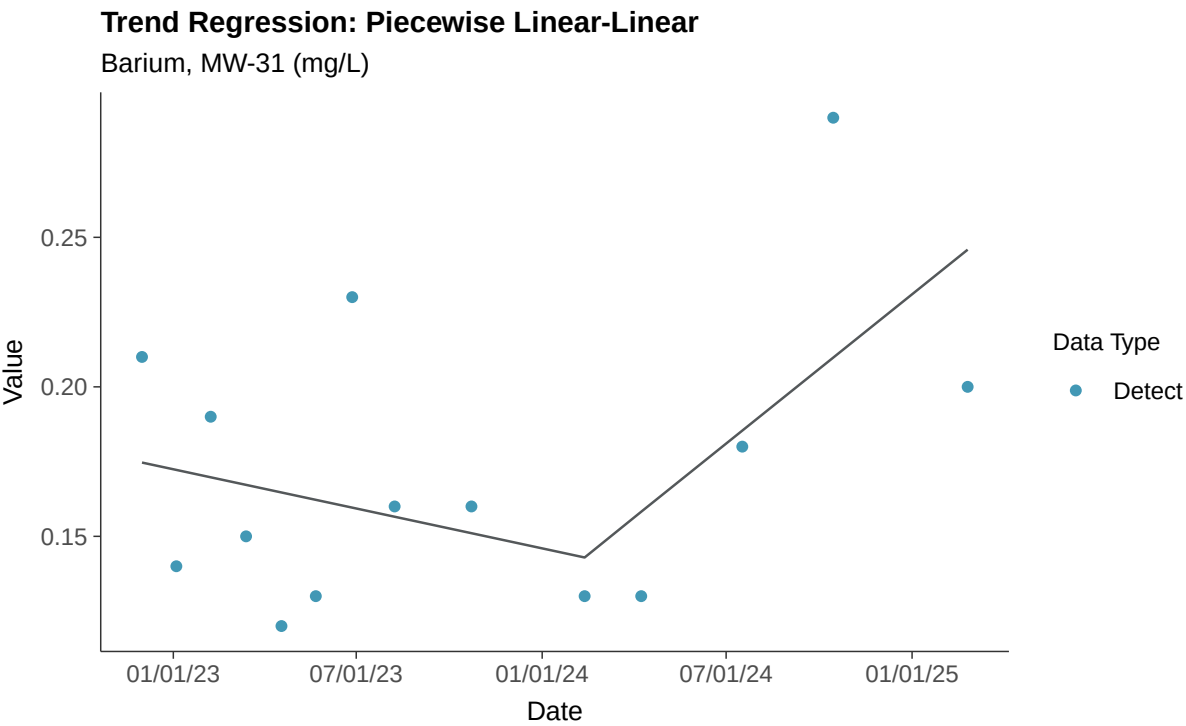
ID: 41_1_4_103

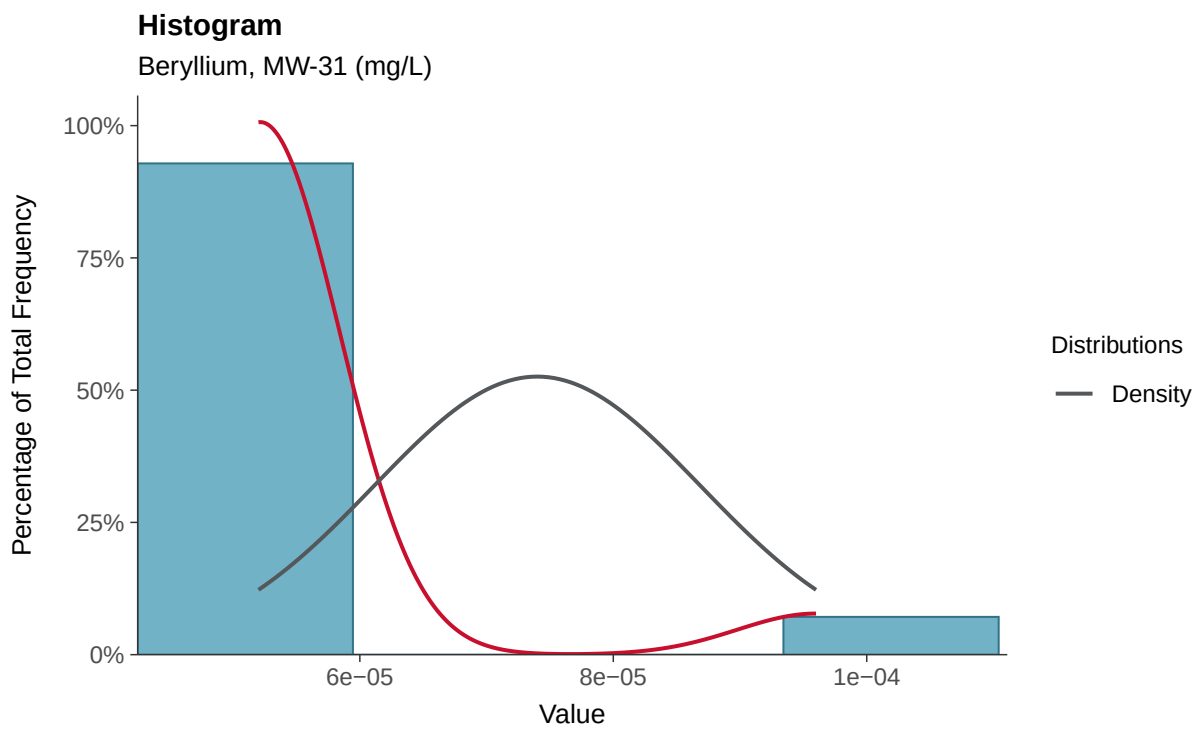










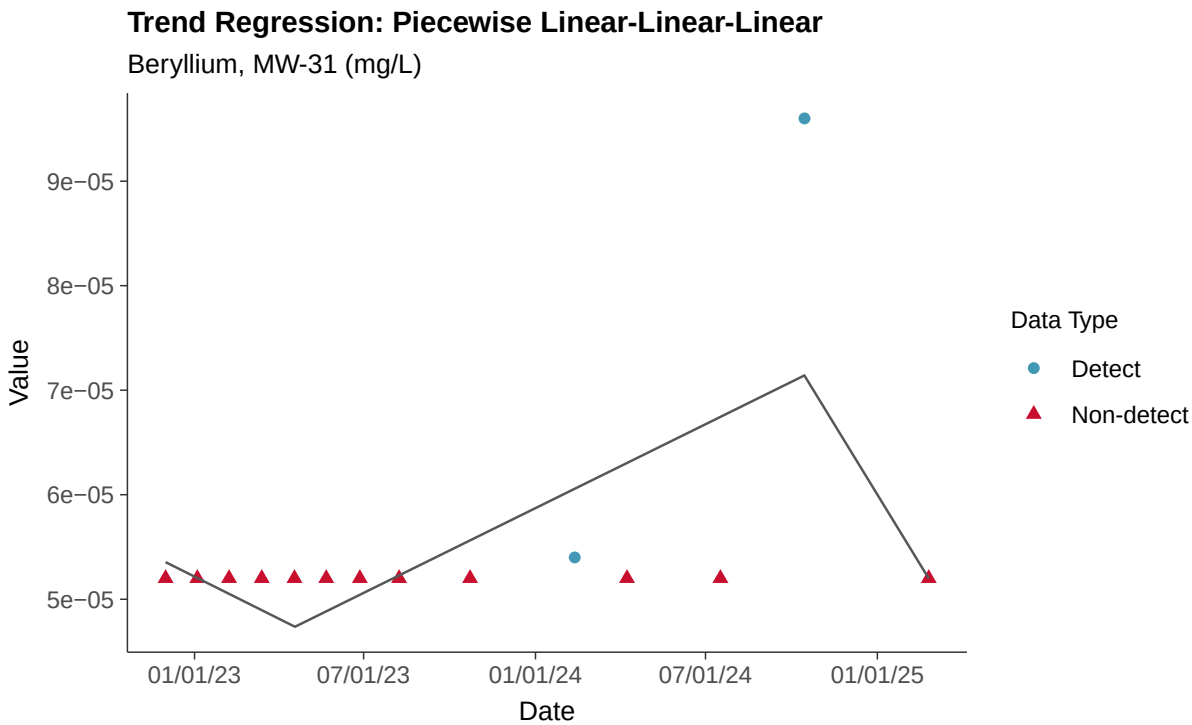
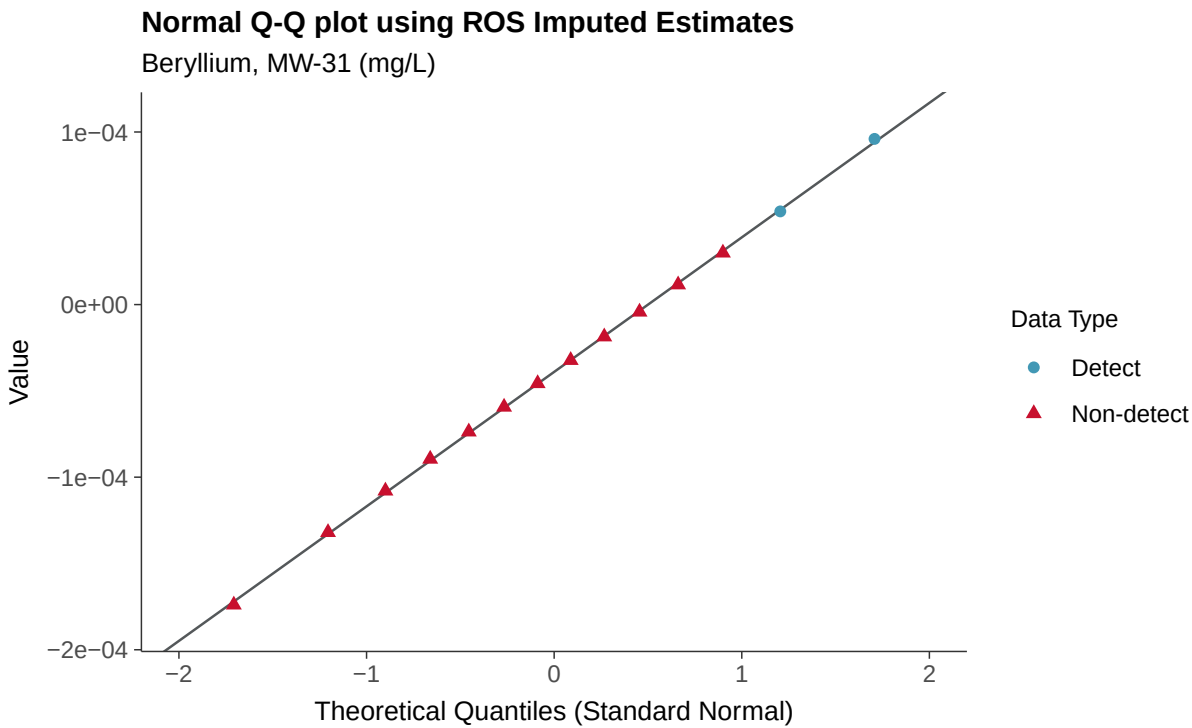


Beryllium, MW-31 (mg/L)



Beryllium, MW-31 (mg/L)

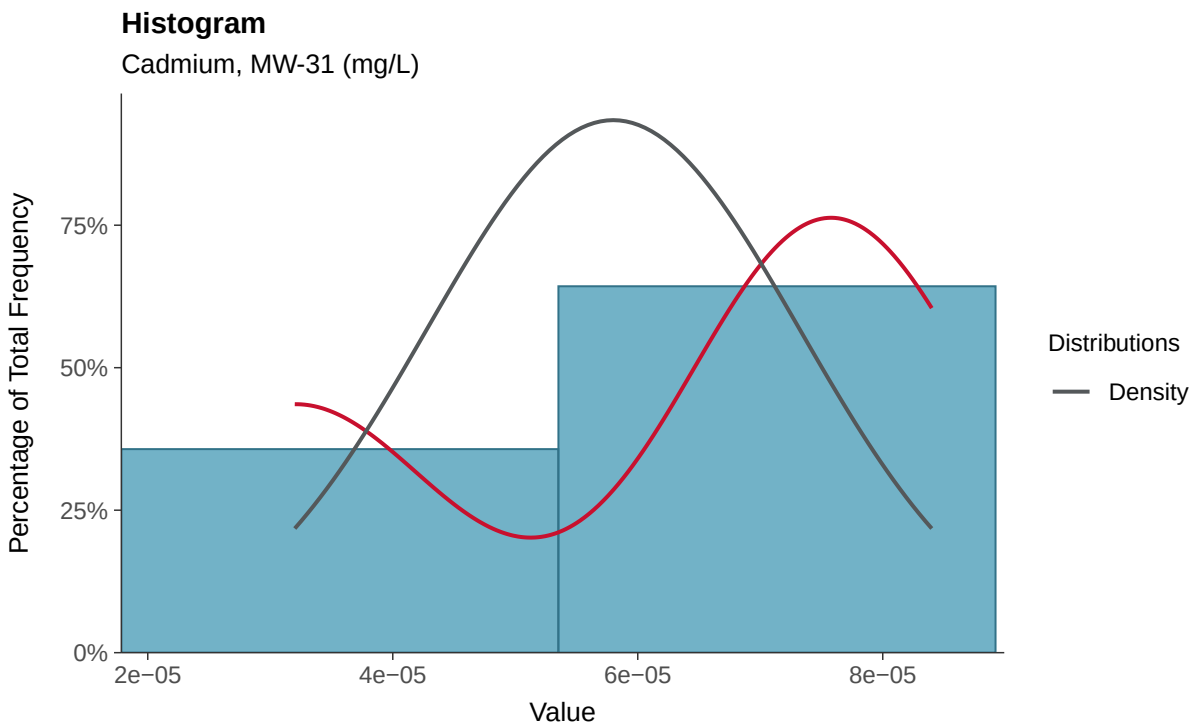
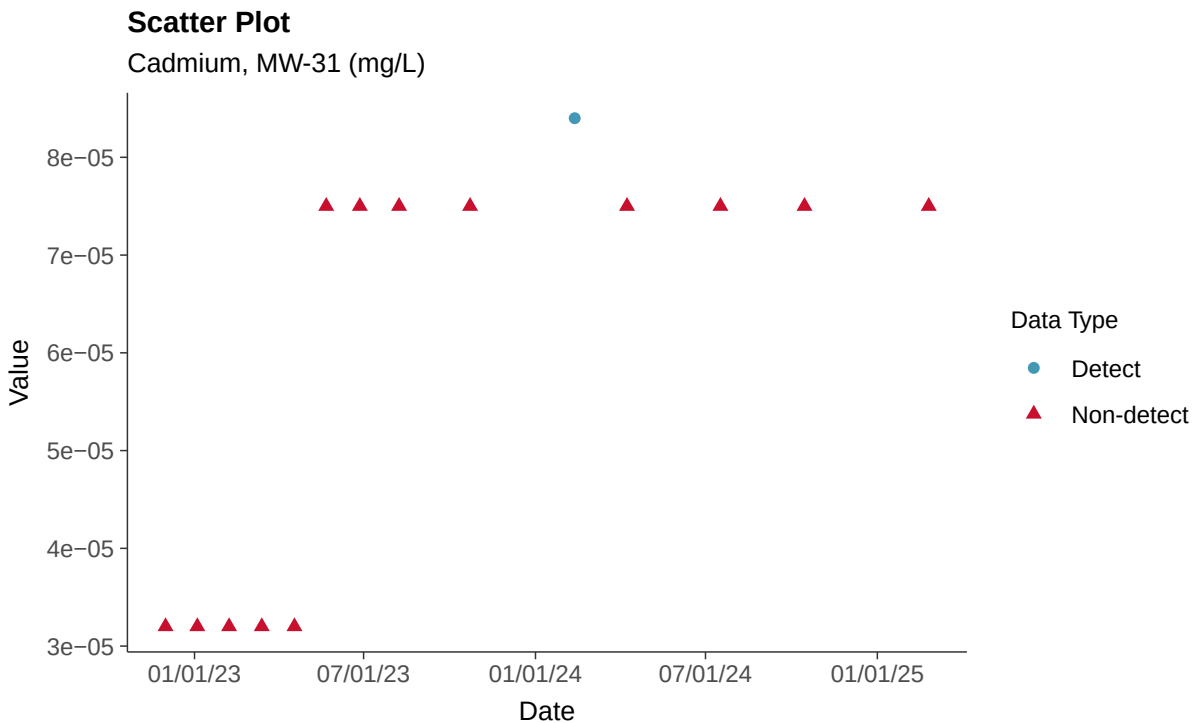


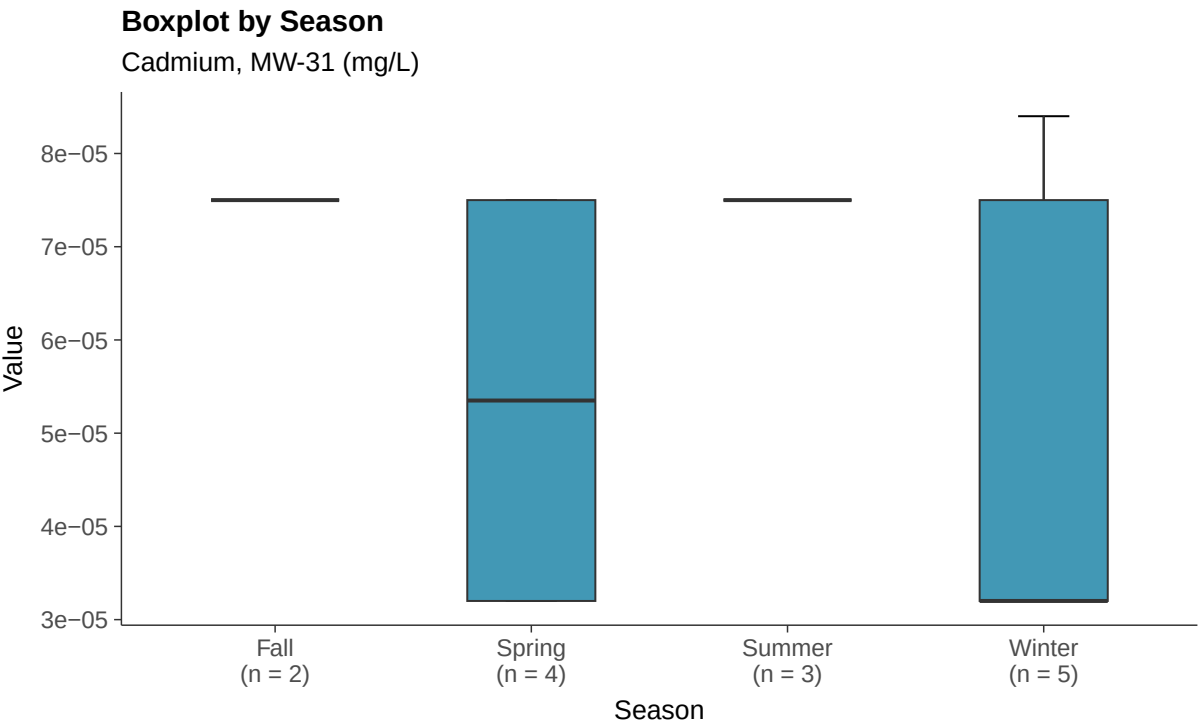
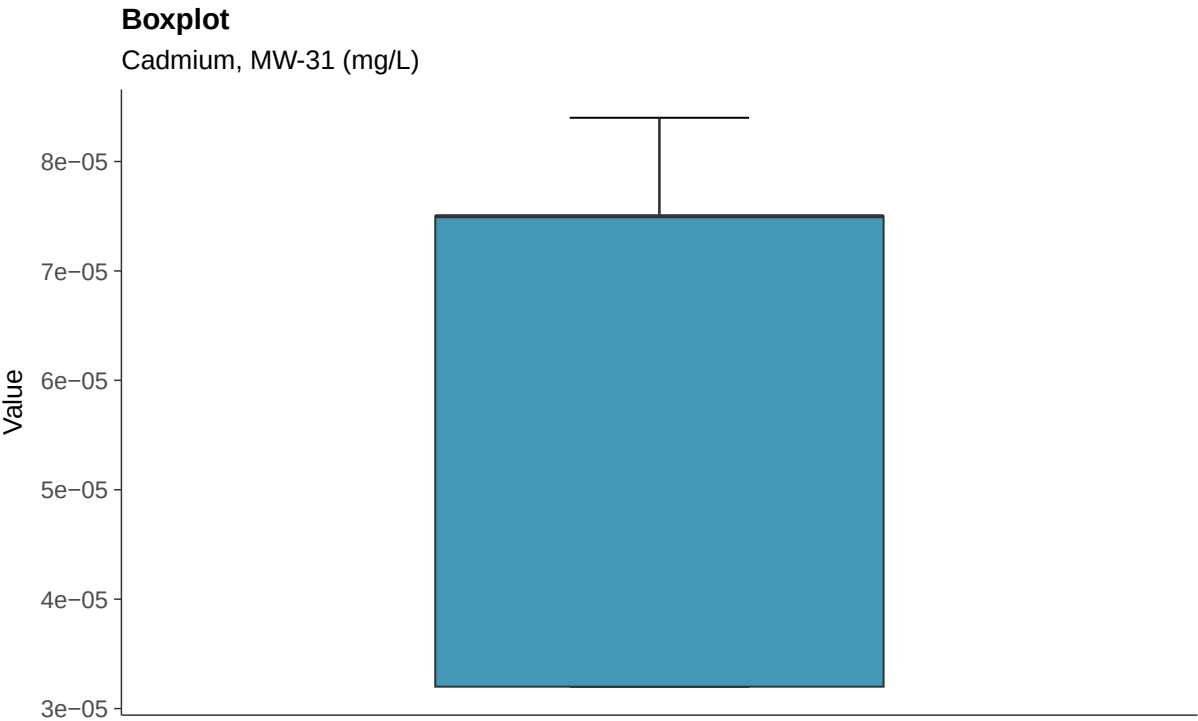


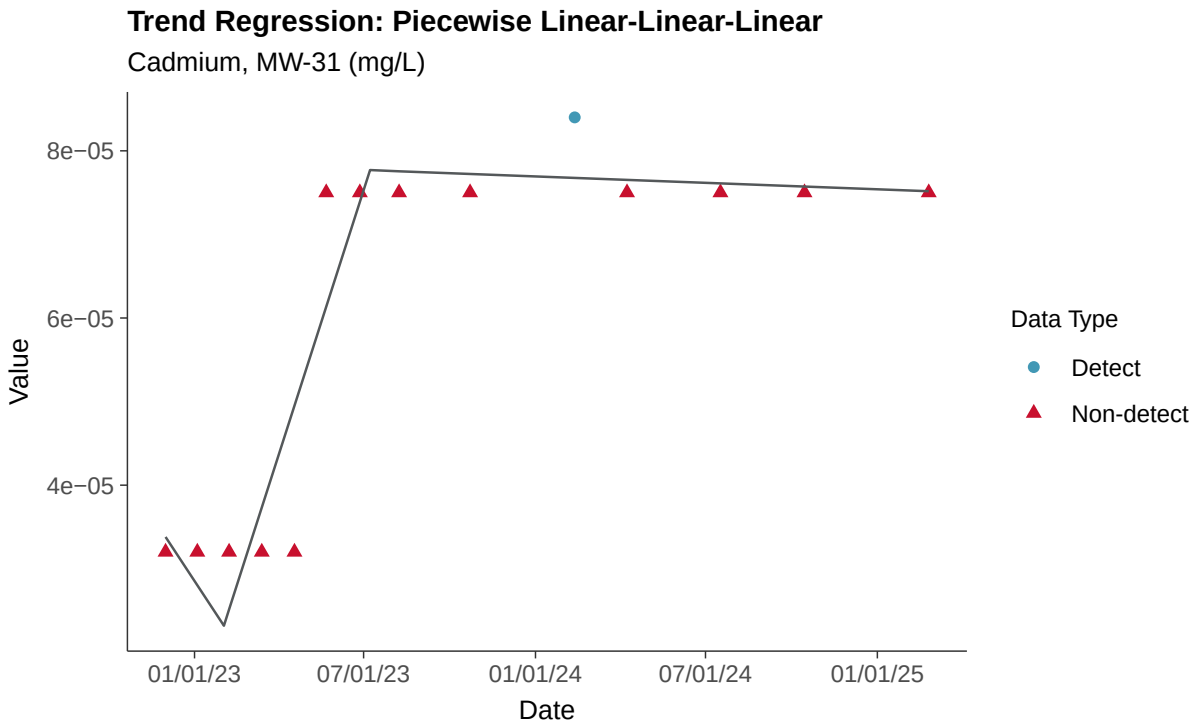
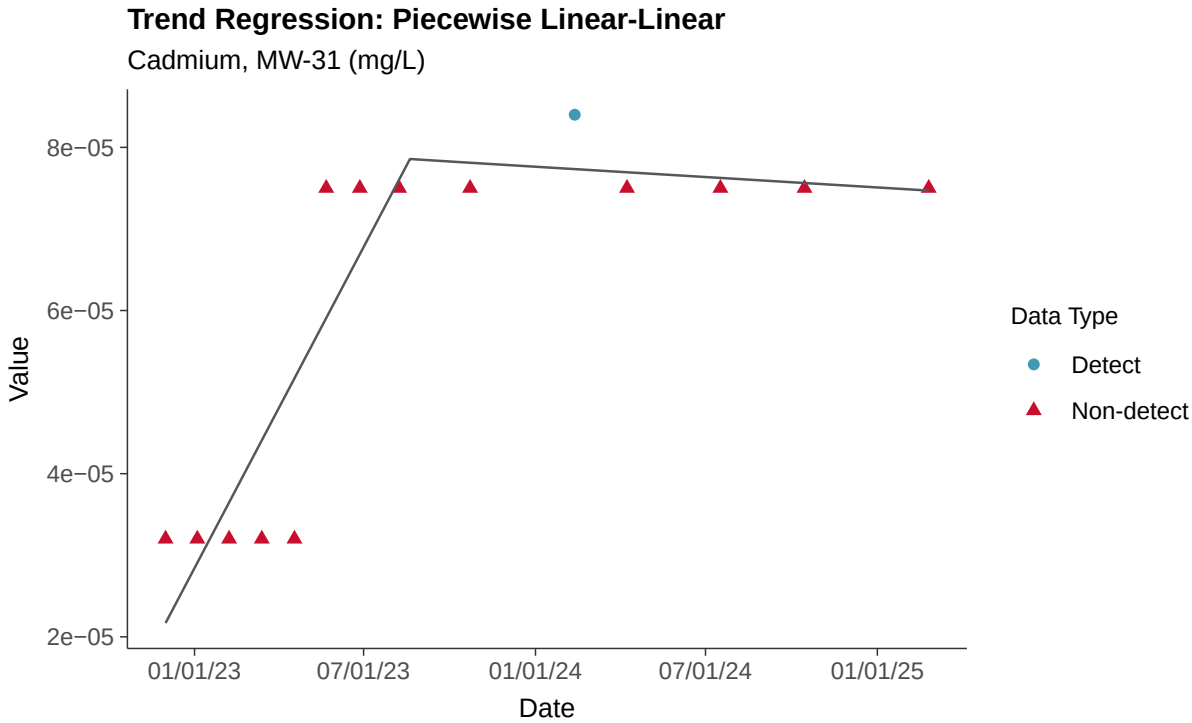


Appendix IV: Cadmium, MW-31

ID: 41_1_4_106



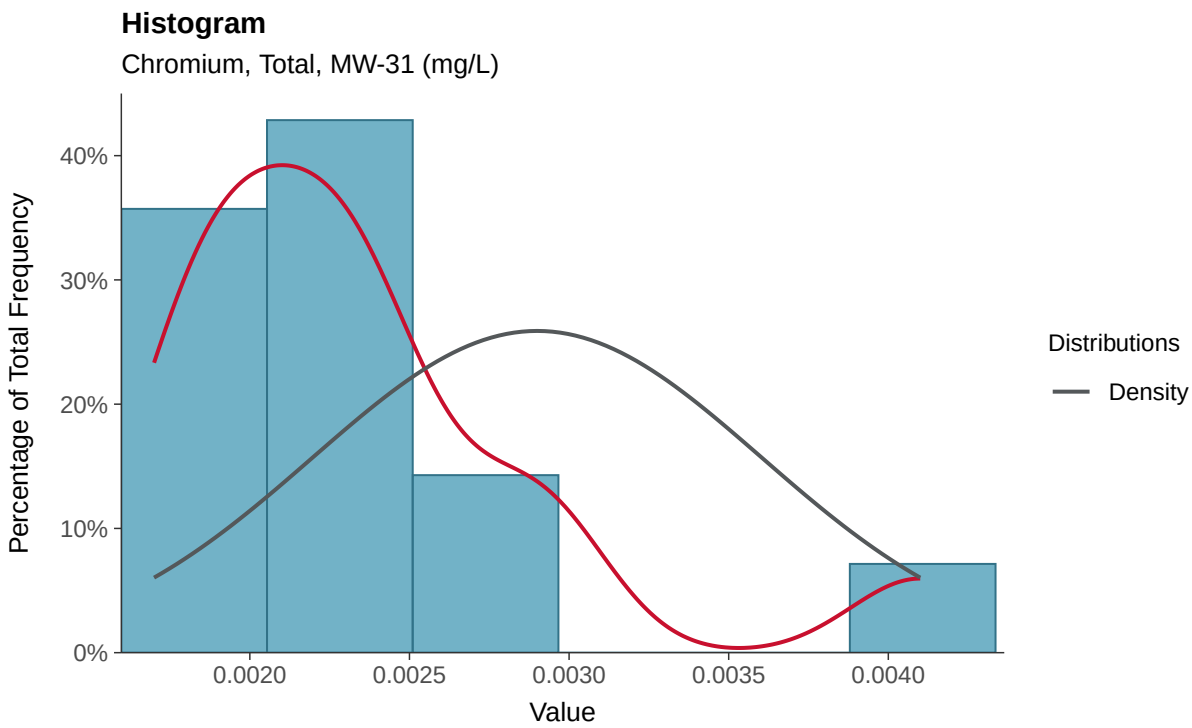
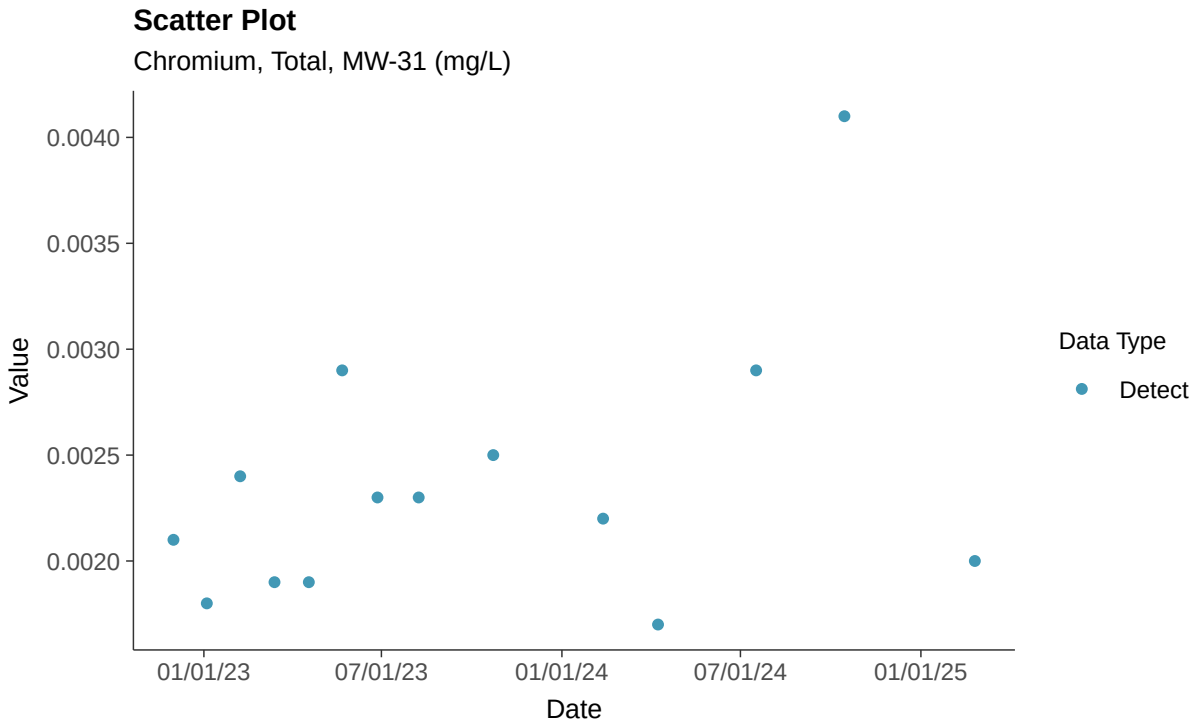


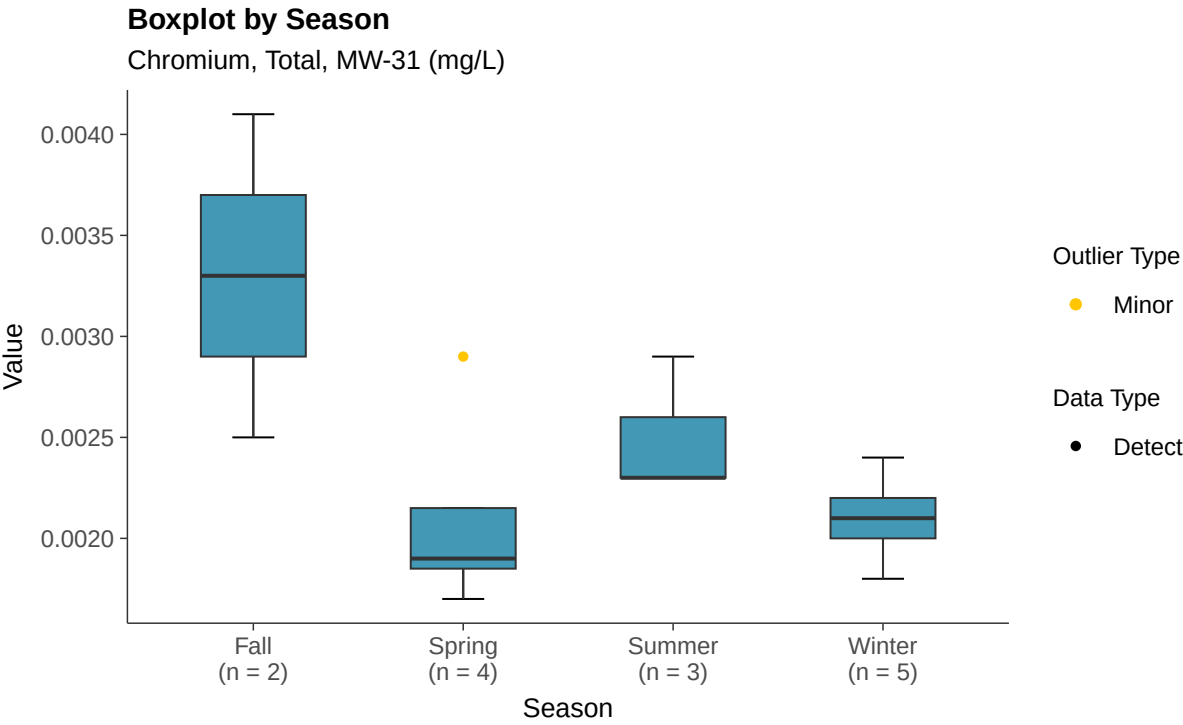
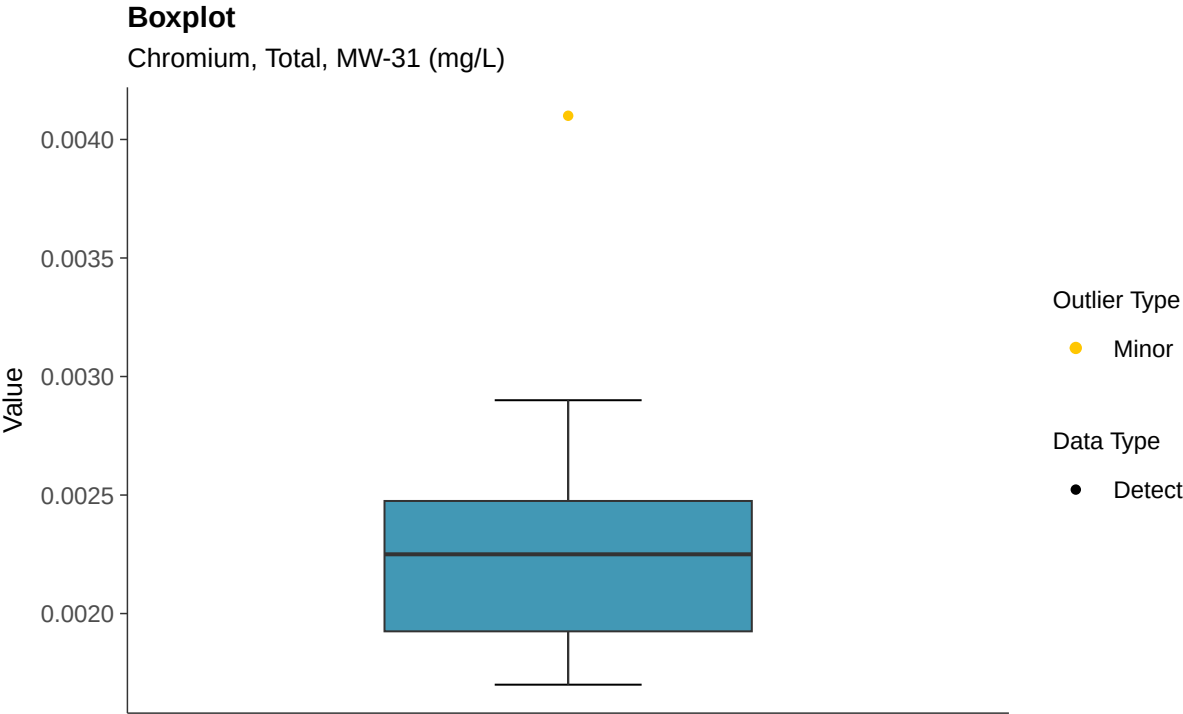


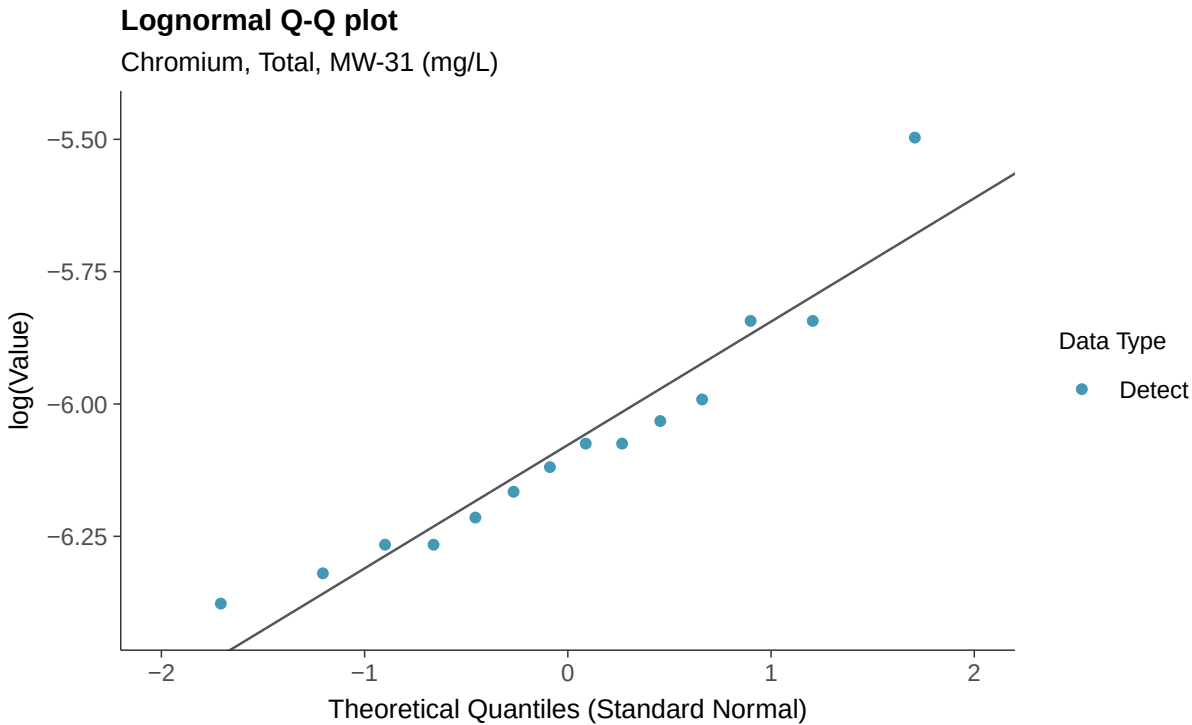
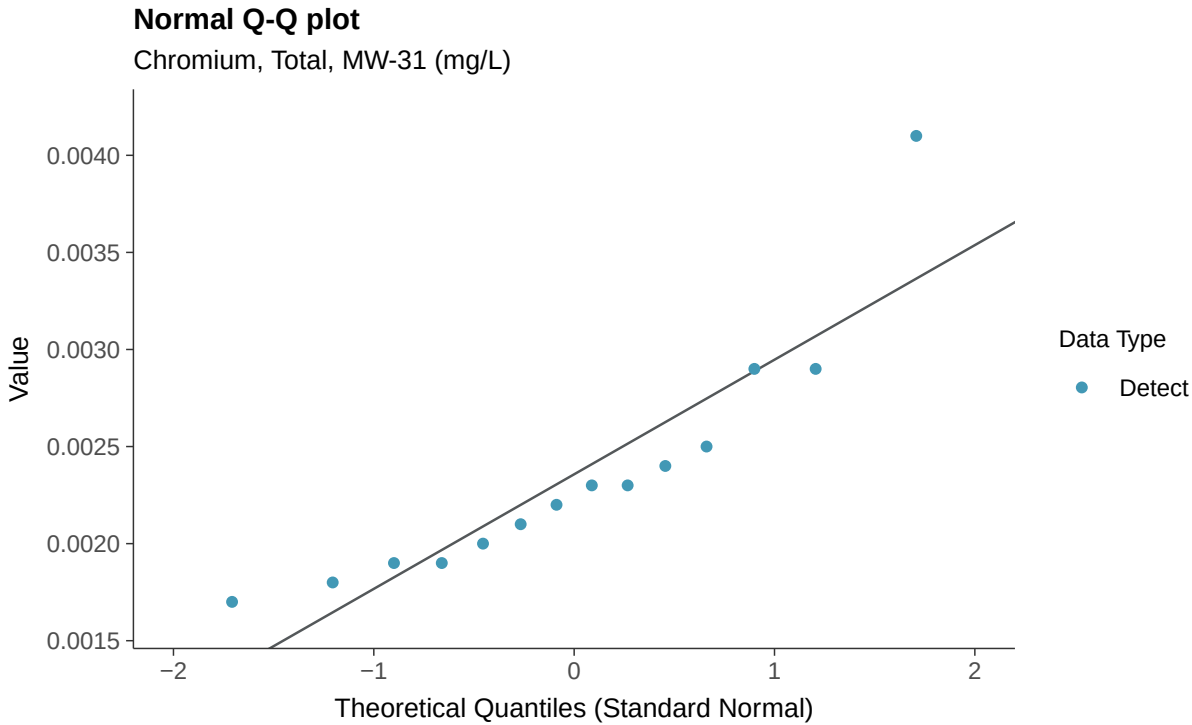


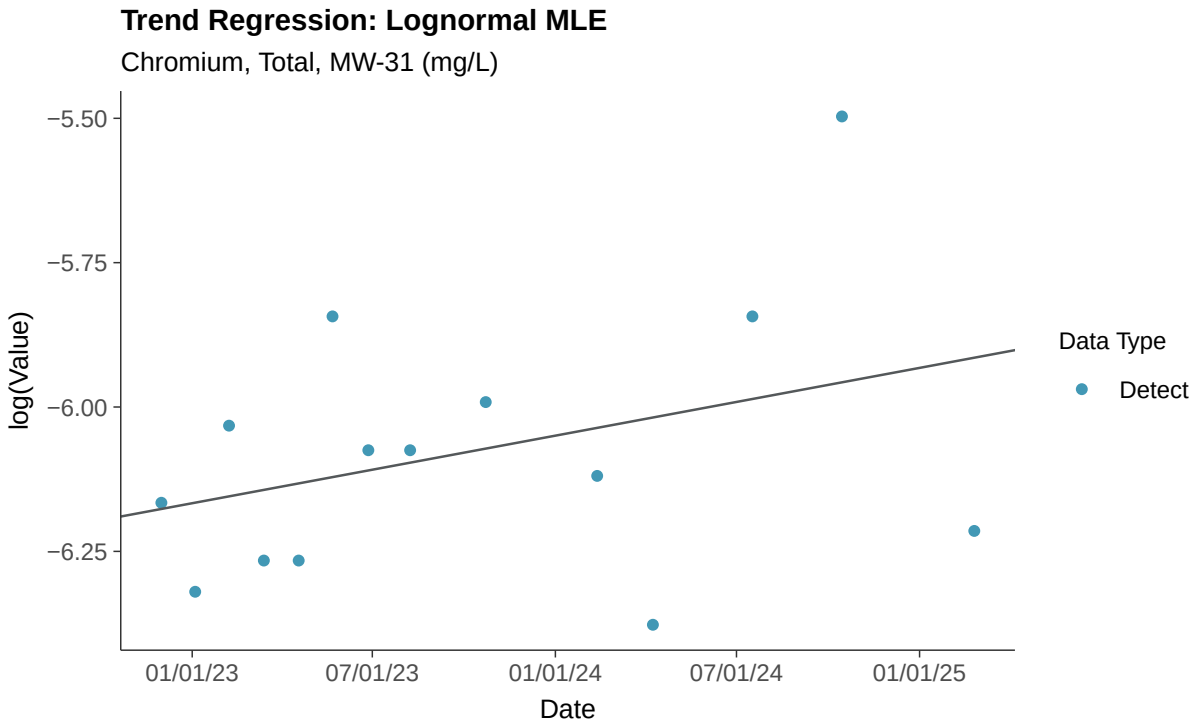
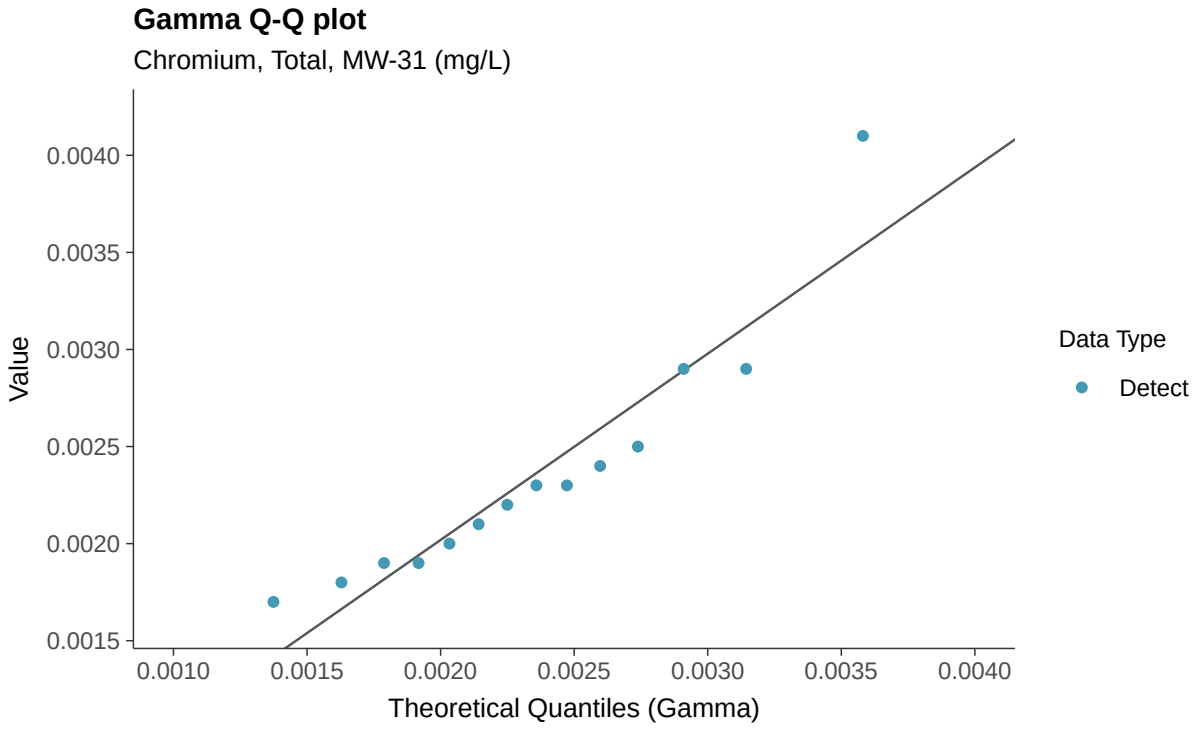
Appendix IV: Chromium, Total, MW-31

ID: 41_1_4_109





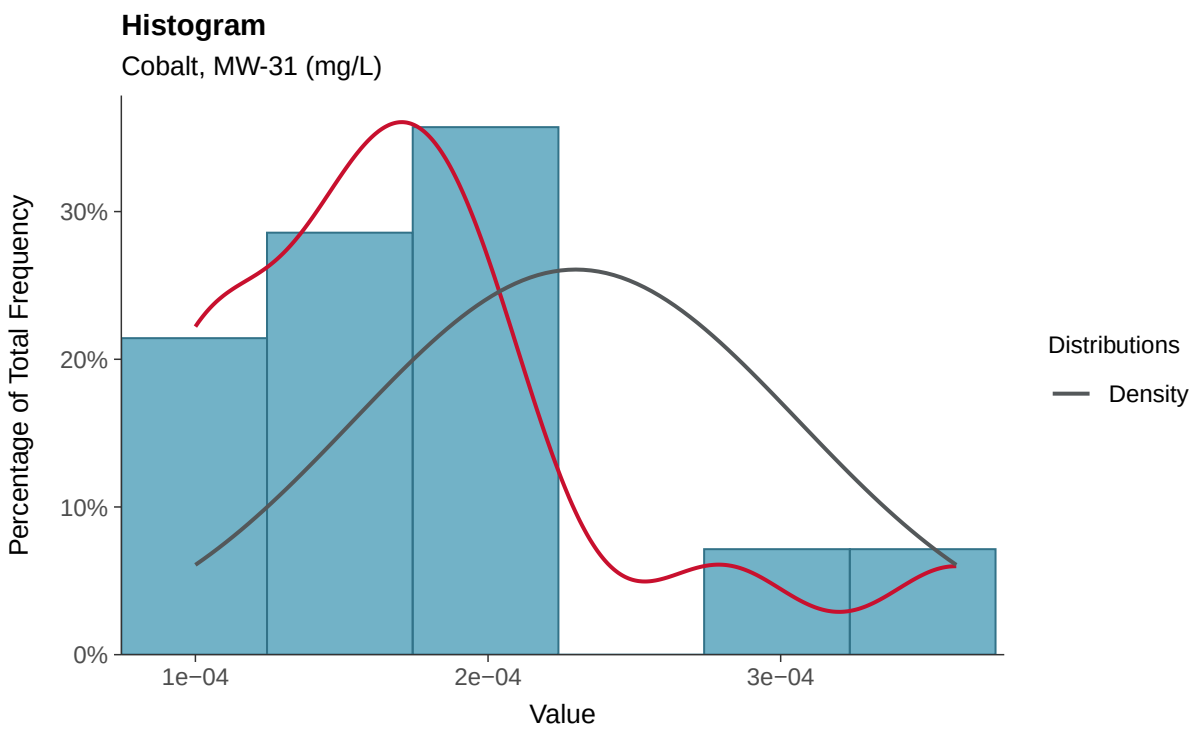
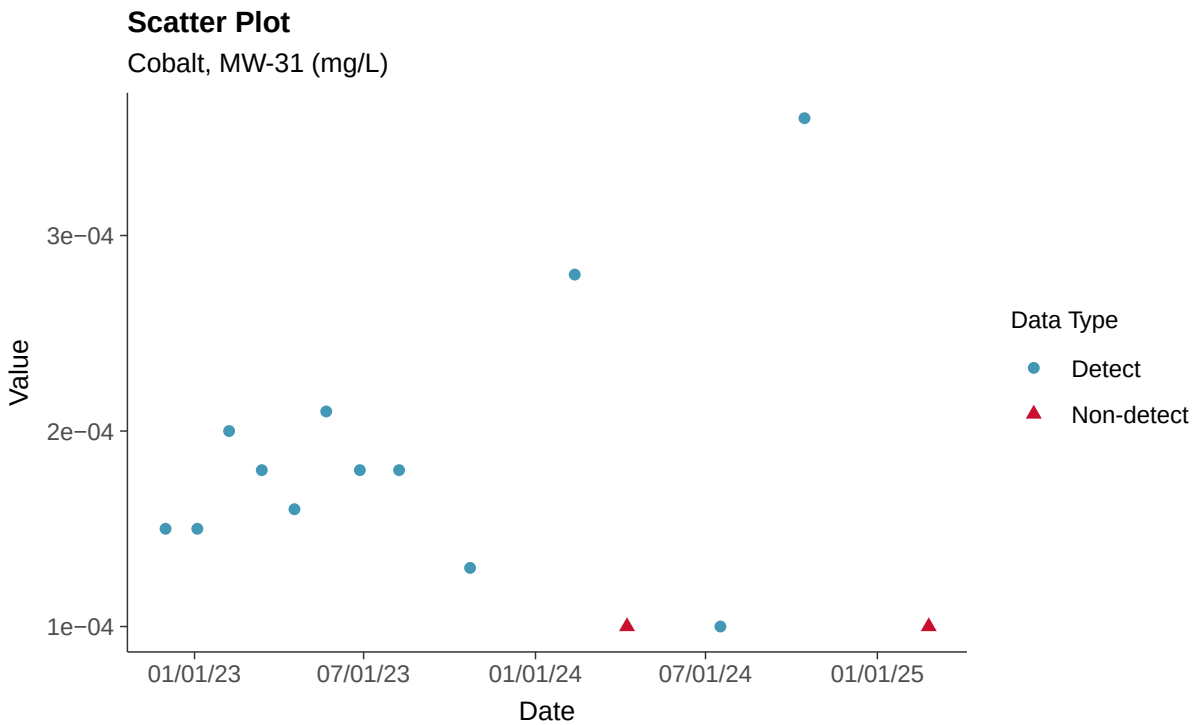


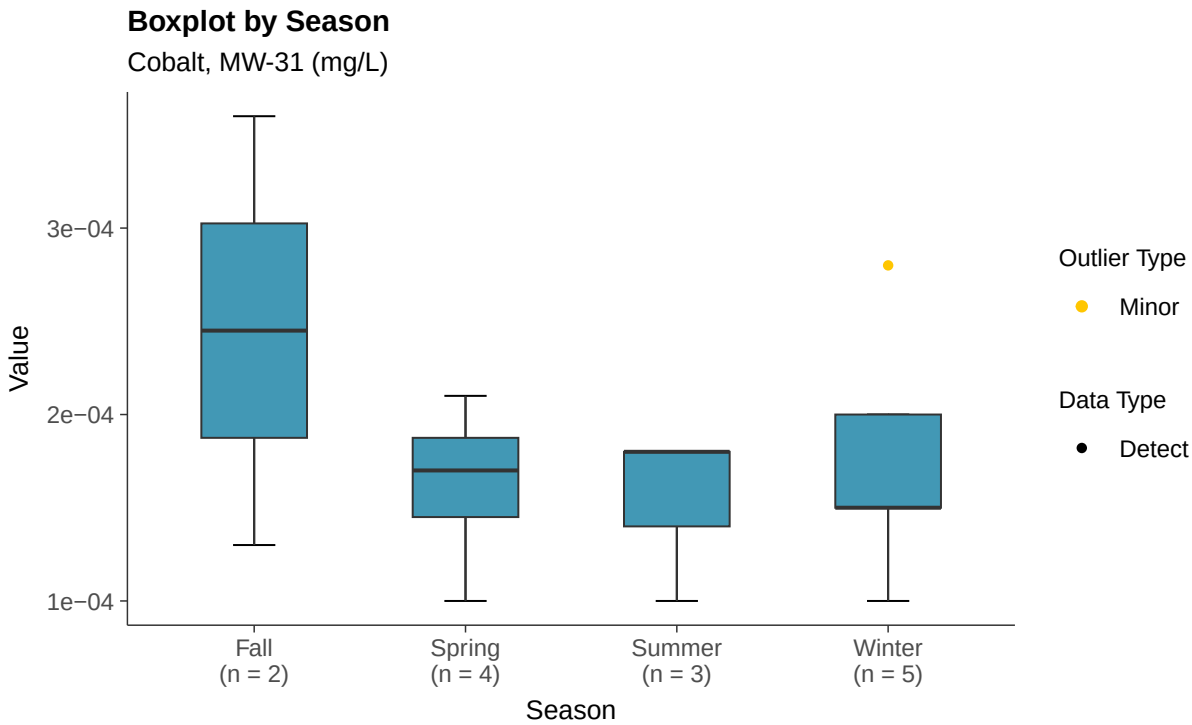
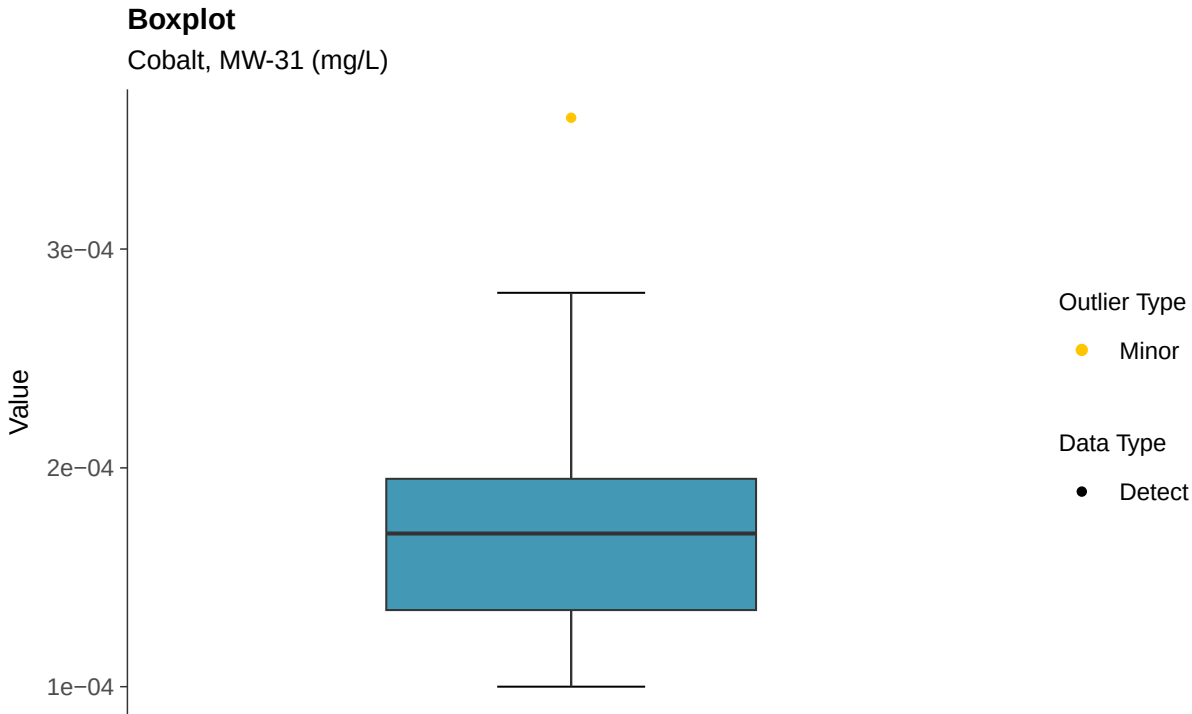




Appendix IV: Cobalt, MW-31

ID: 41_1_4_110

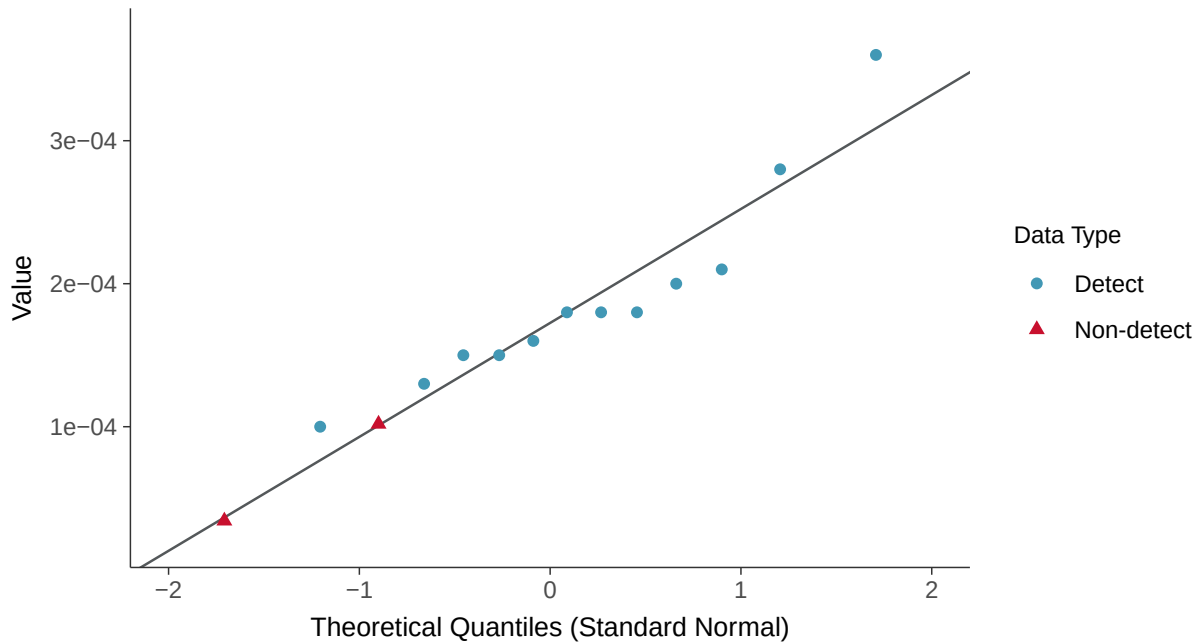






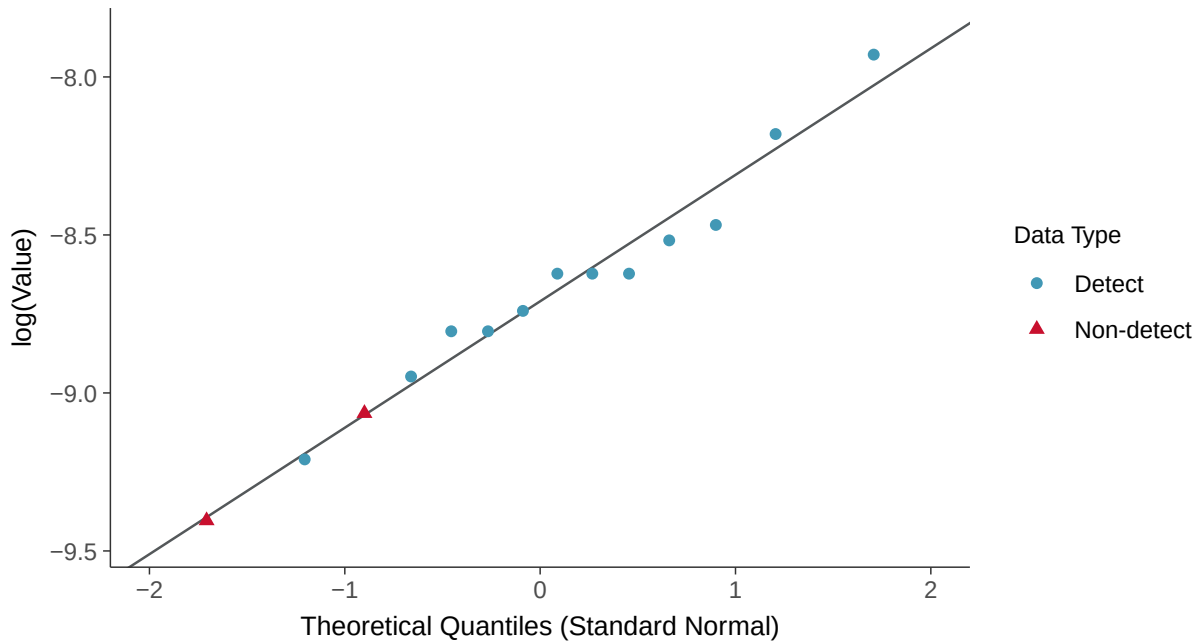
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-31 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

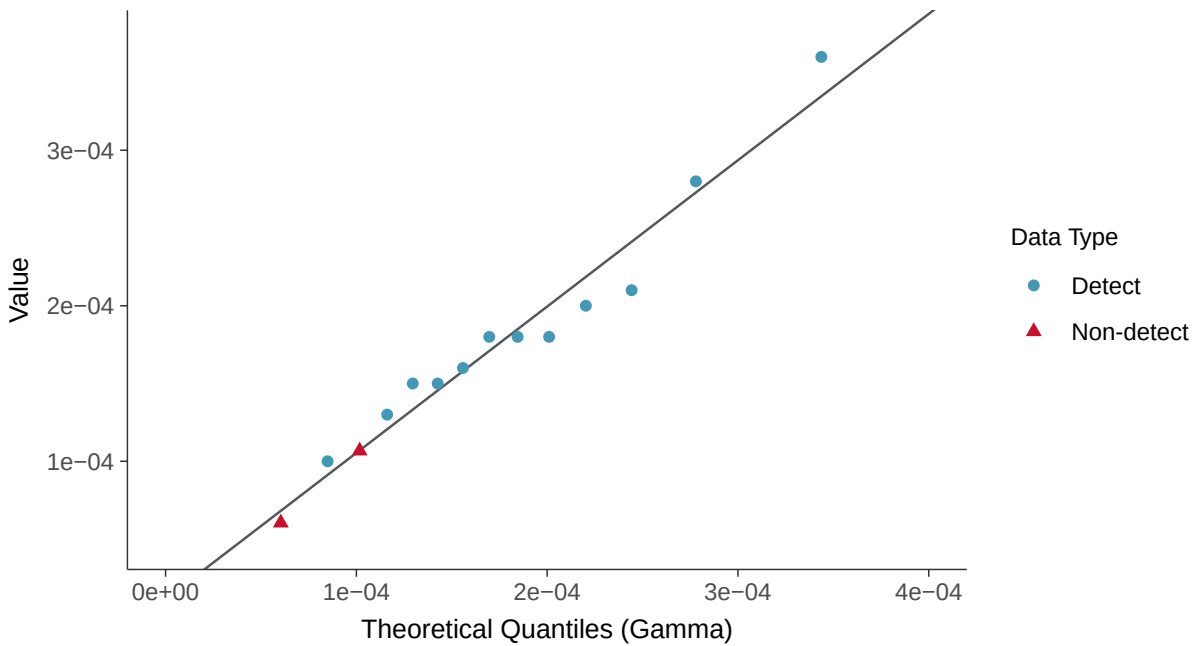
Cobalt, MW-31 (mg/L)





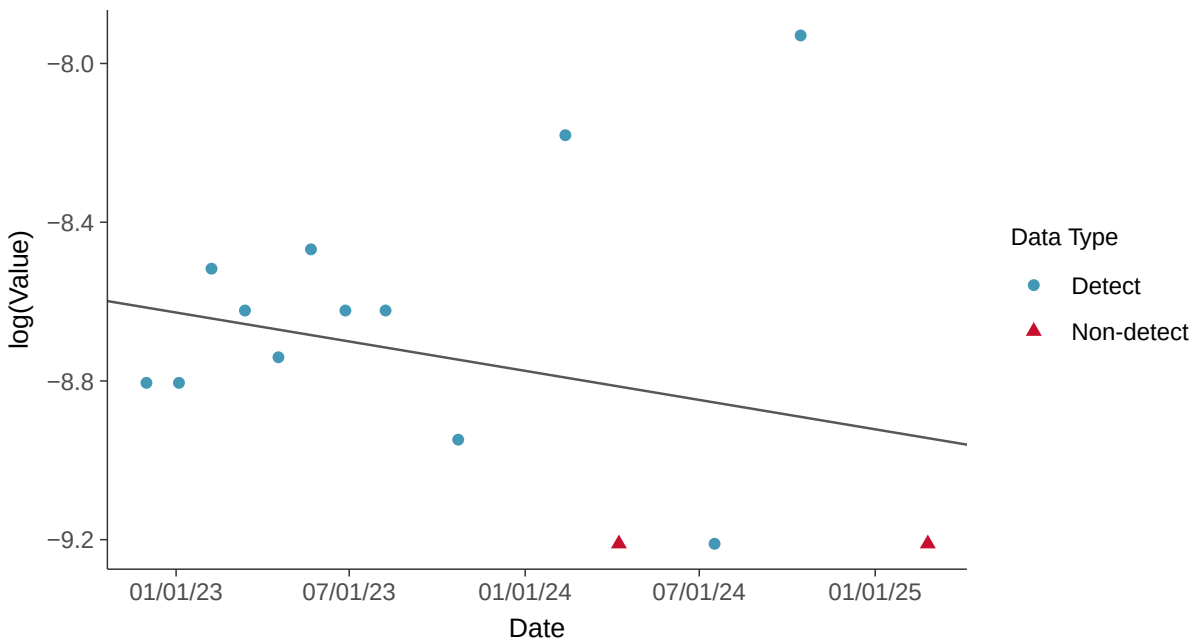
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-31 (mg/L)



Trend Regression: Lognormal MLE

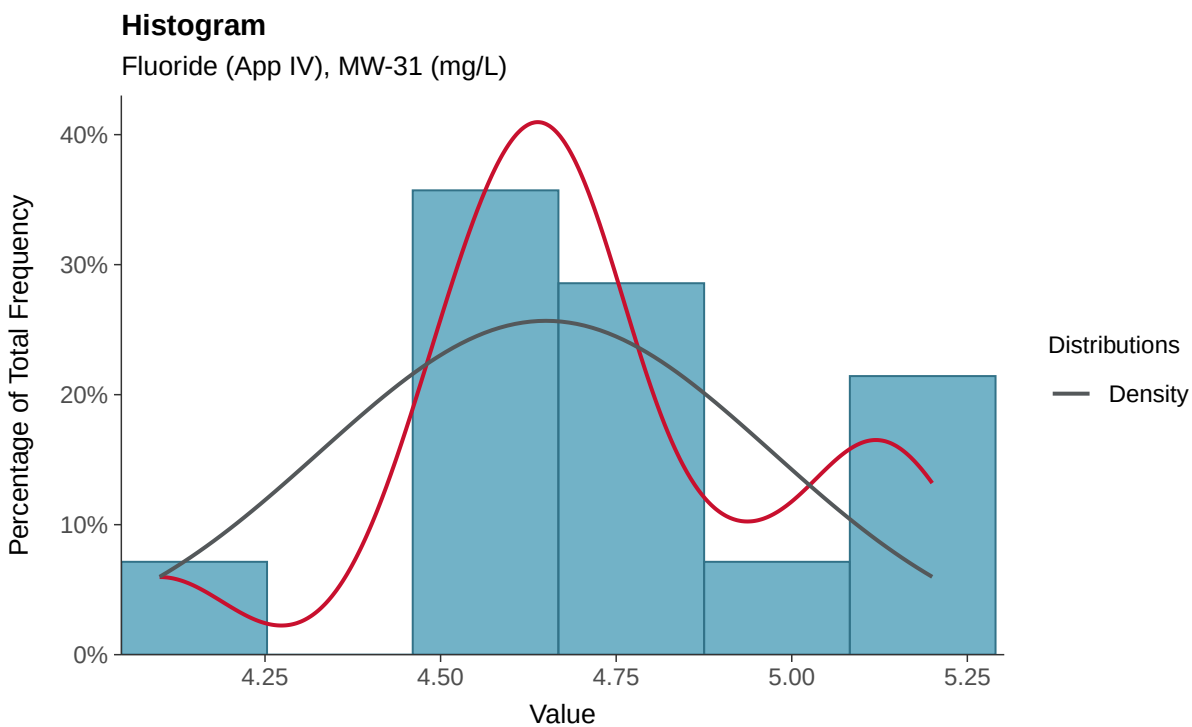
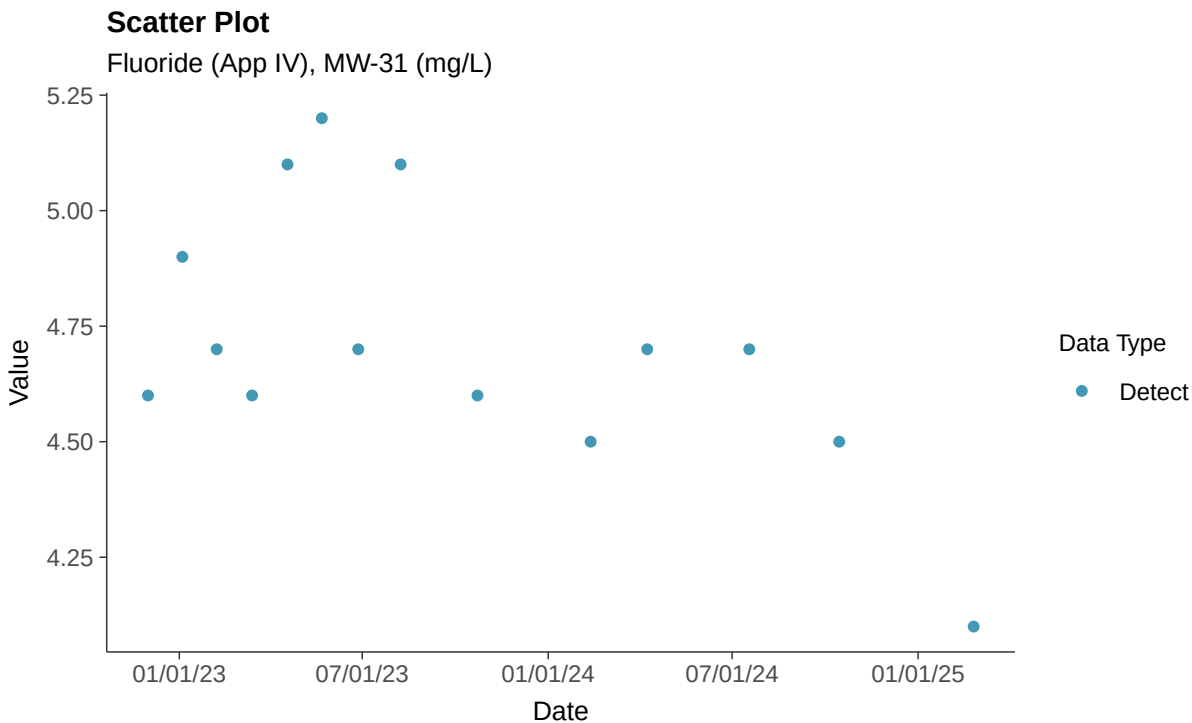
Cobalt, MW-31 (mg/L)

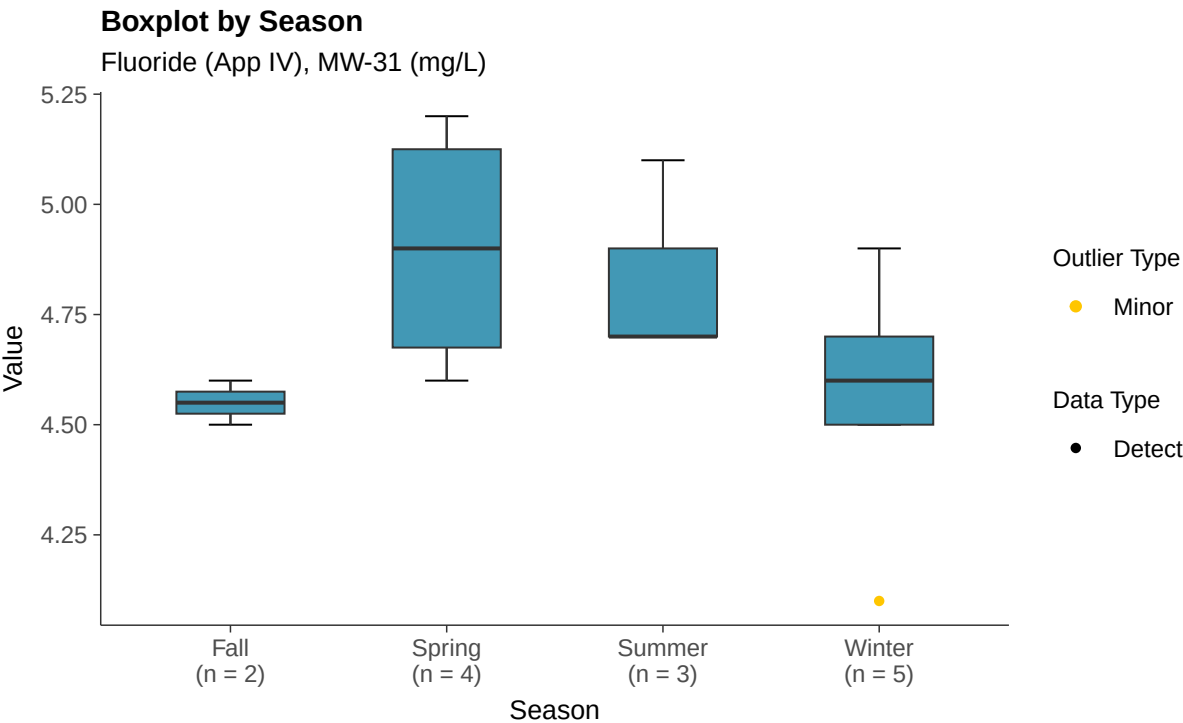
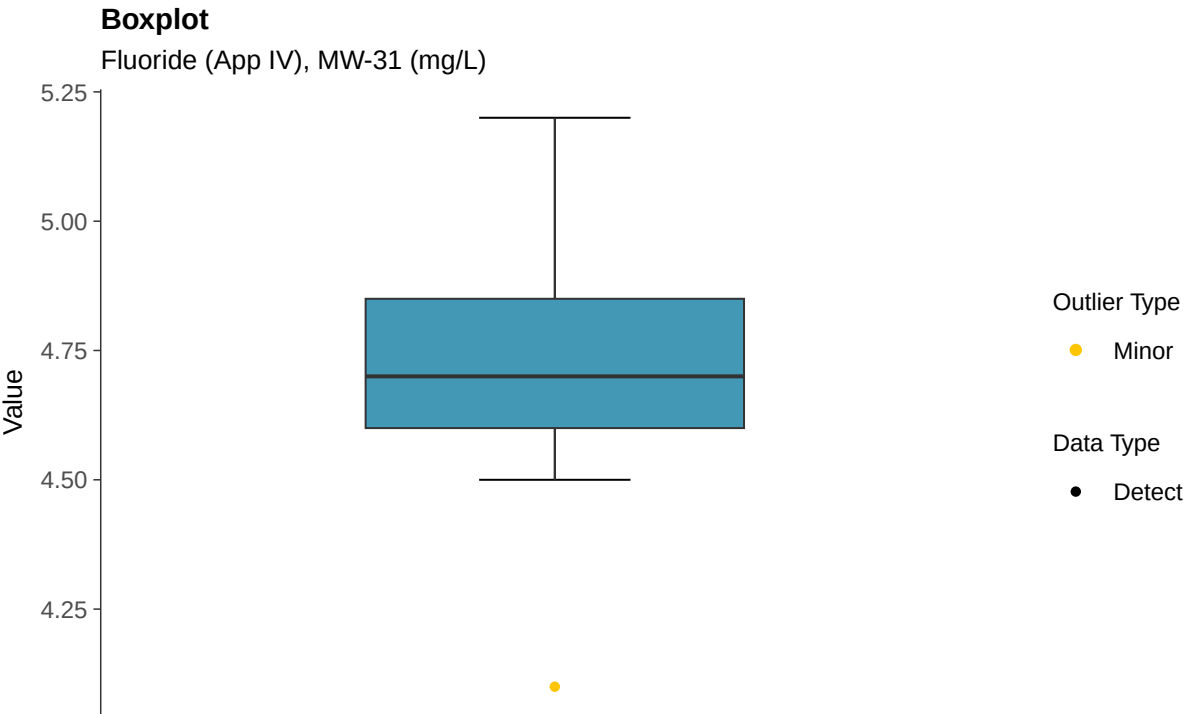


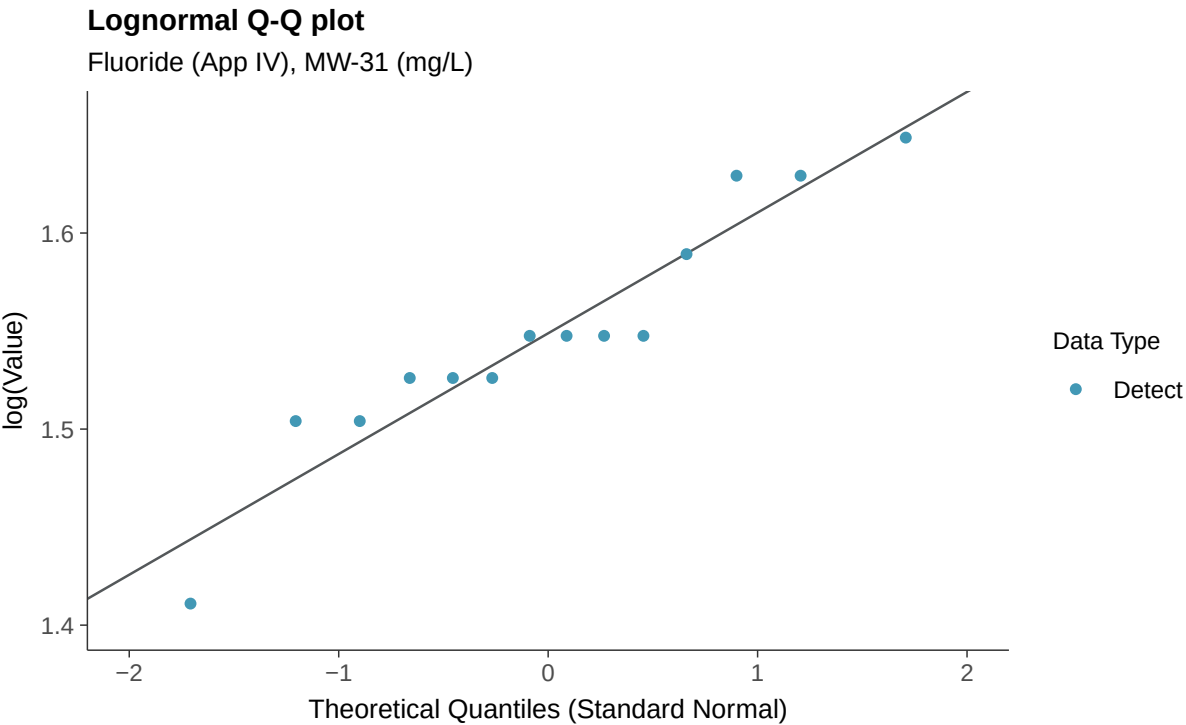
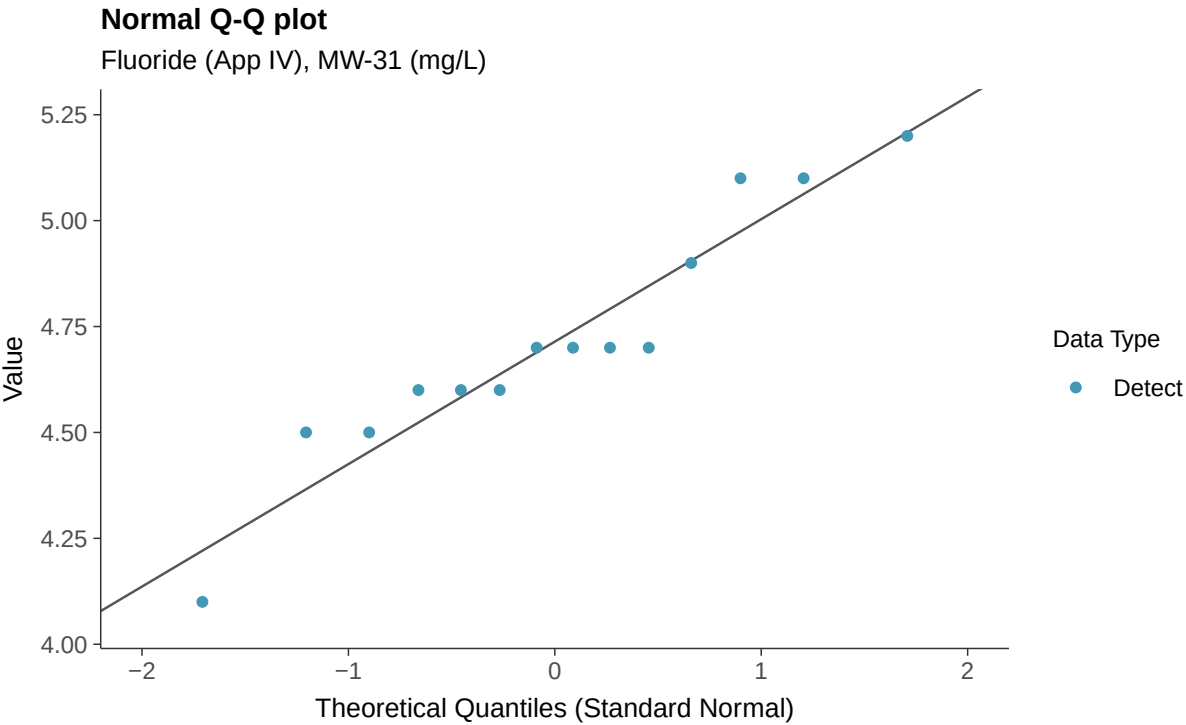


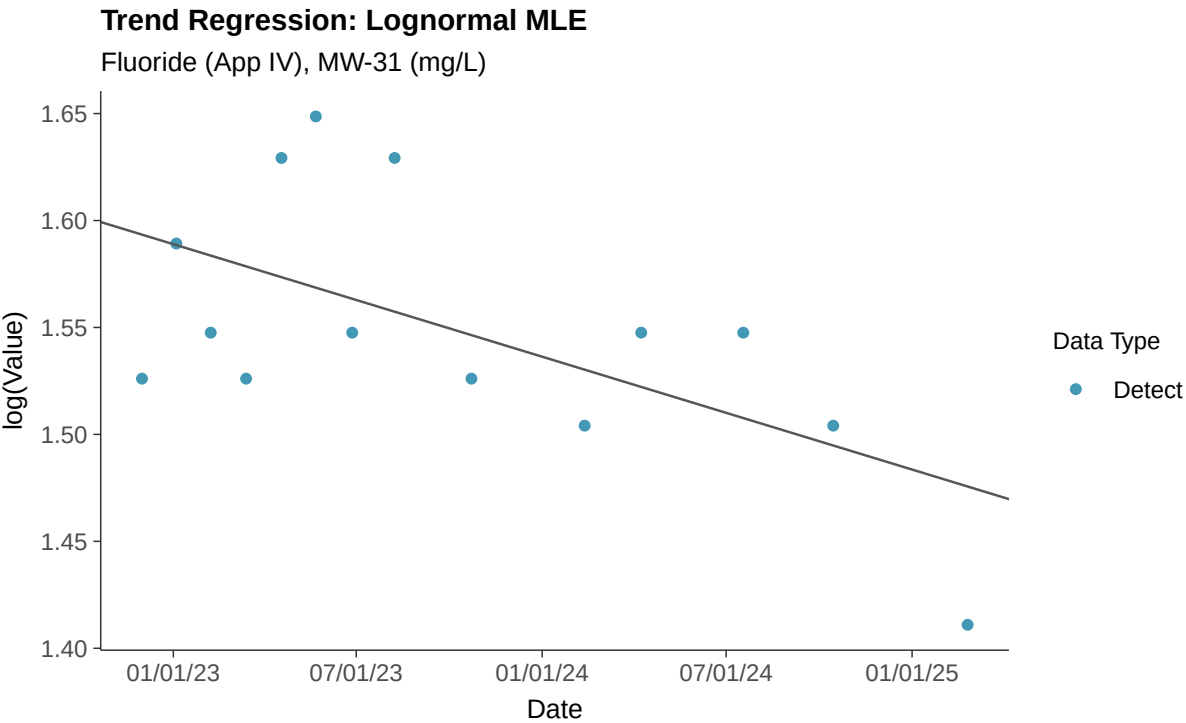
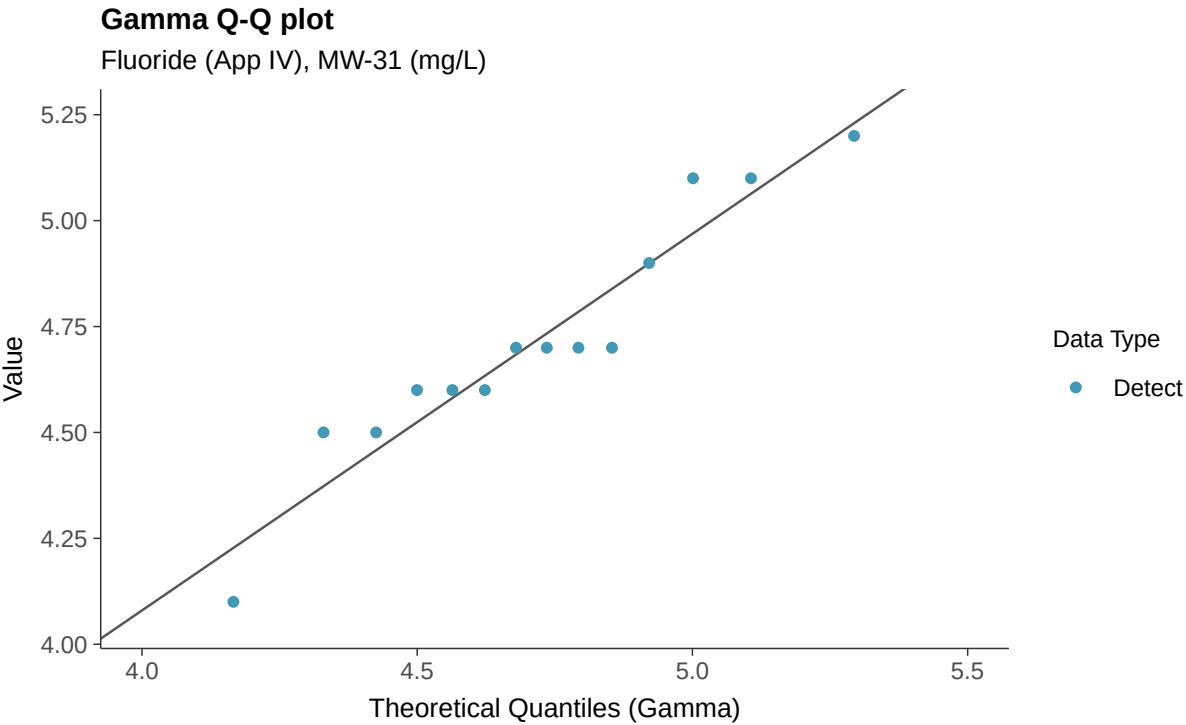
Appendix IV: Fluoride (App IV), MW-31

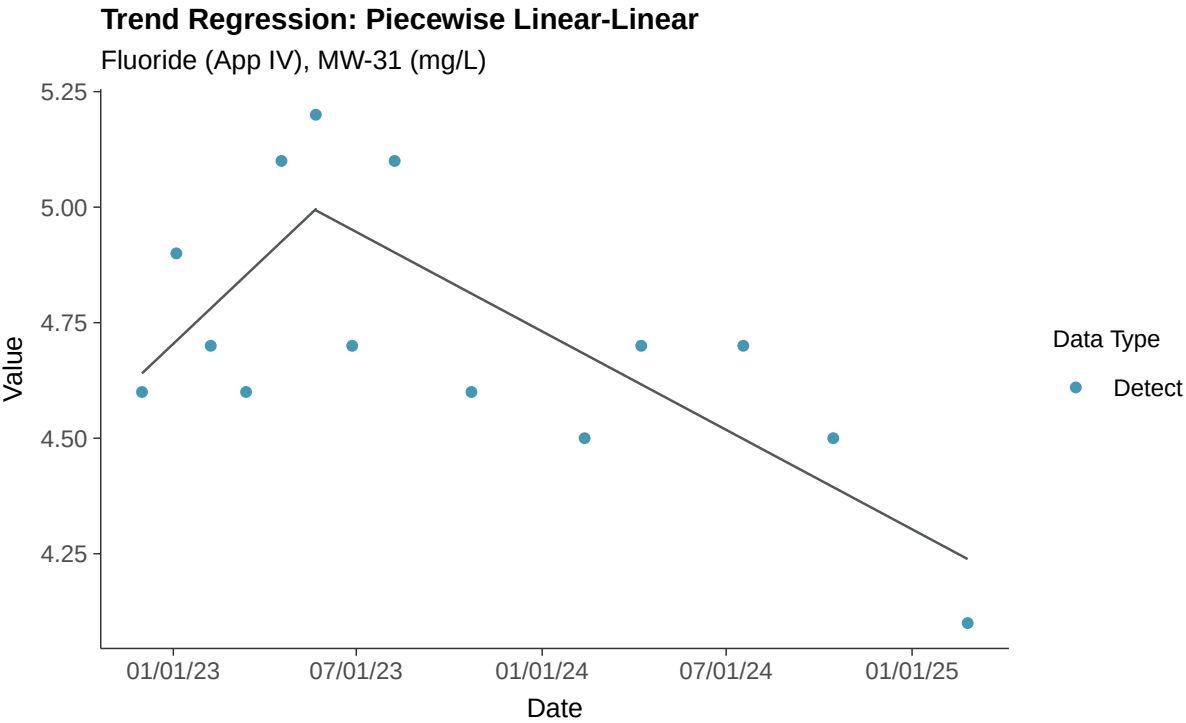
ID: 41_1_4_113







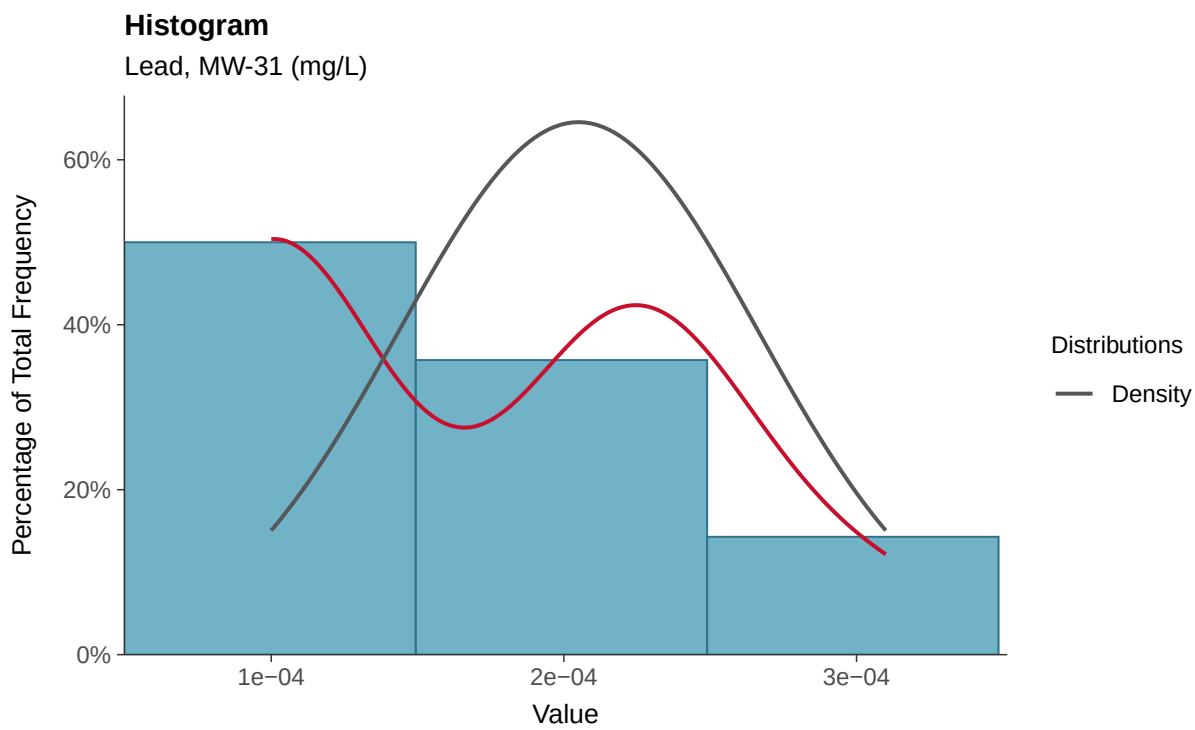
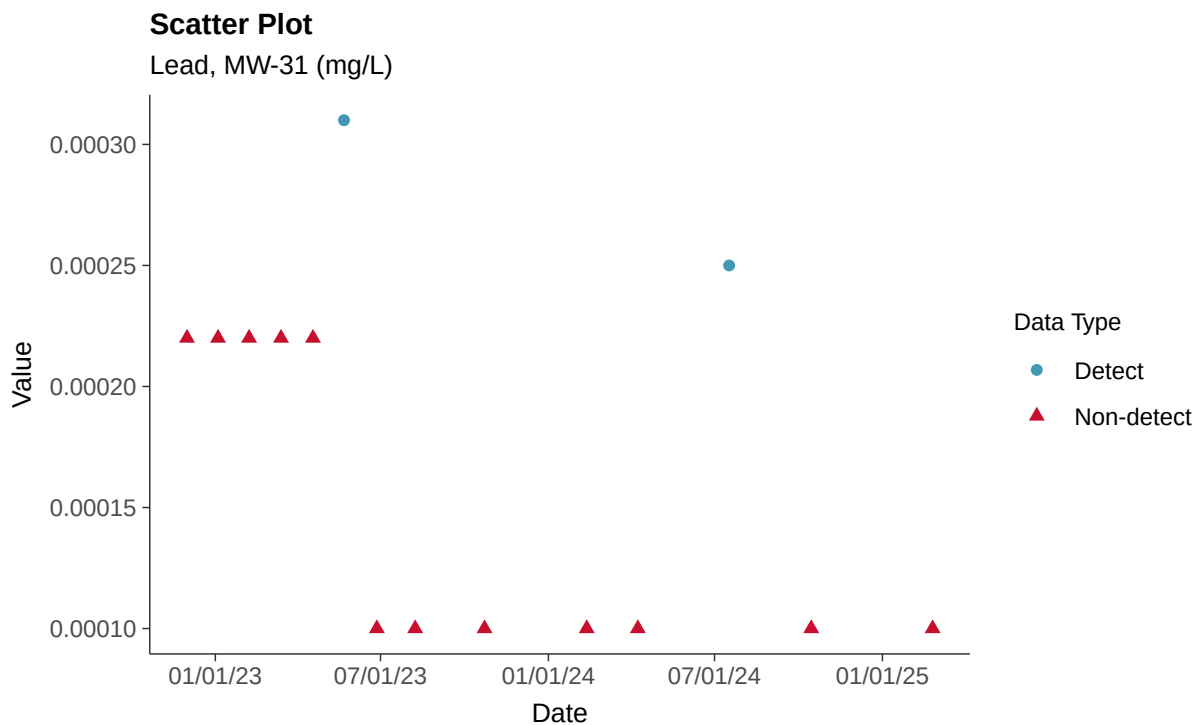


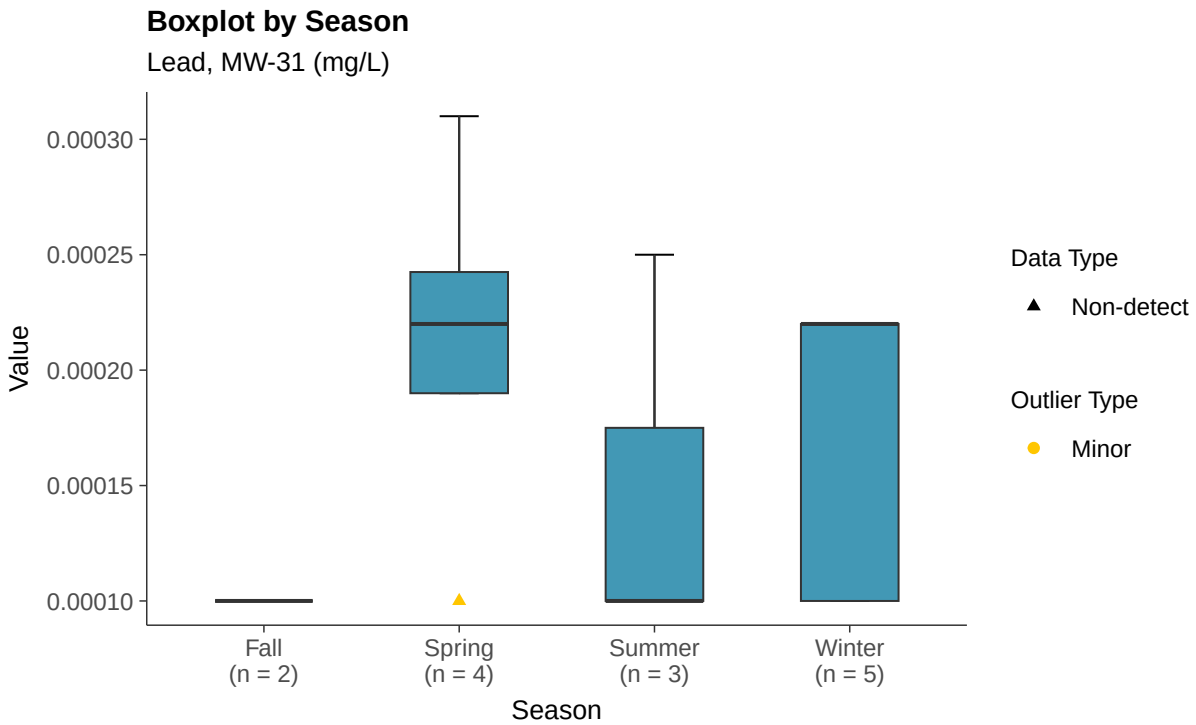
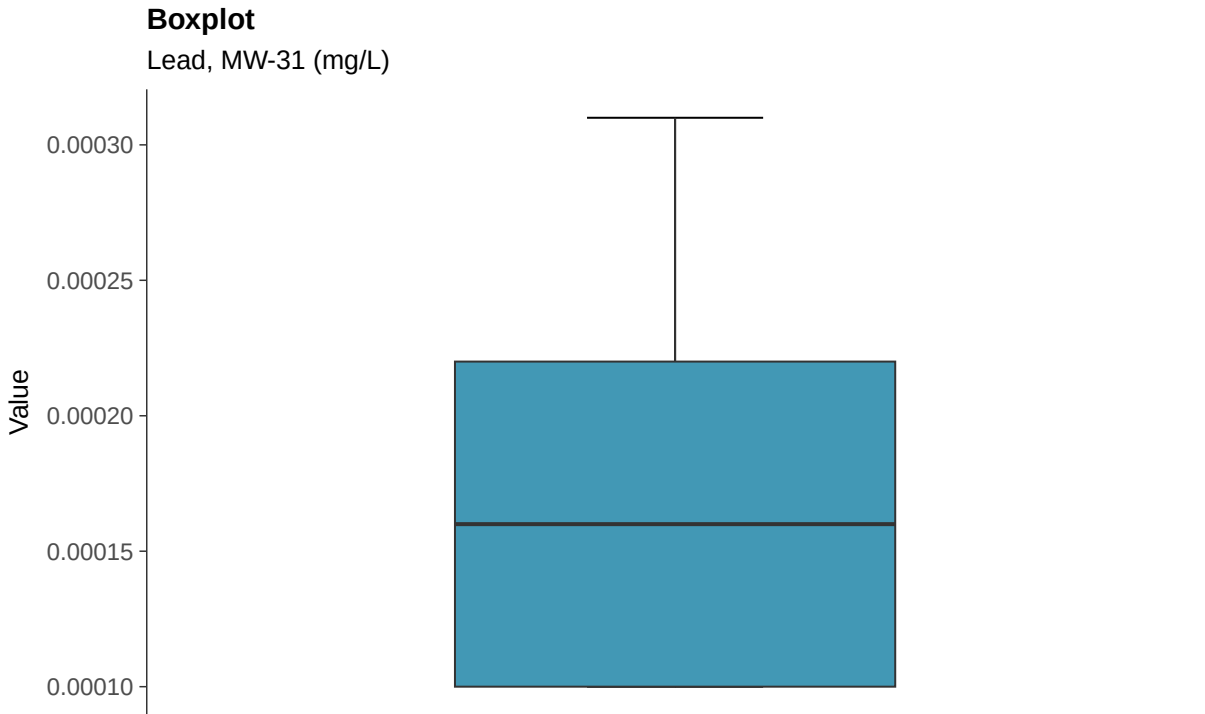


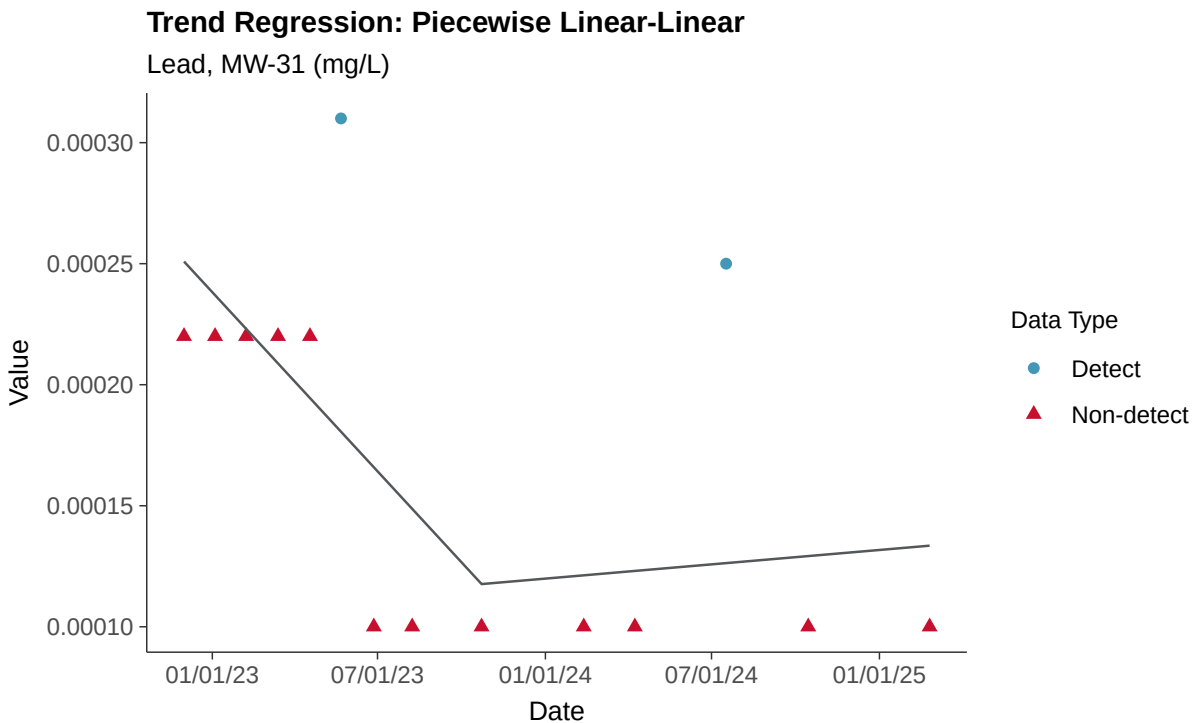
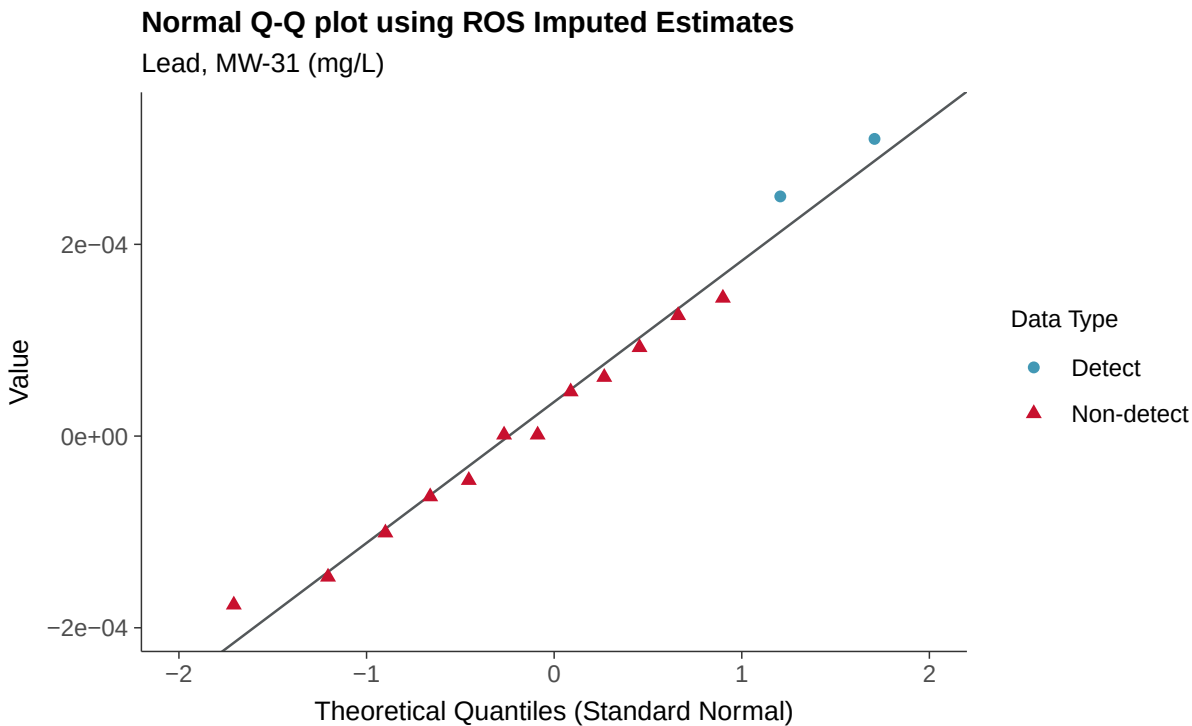


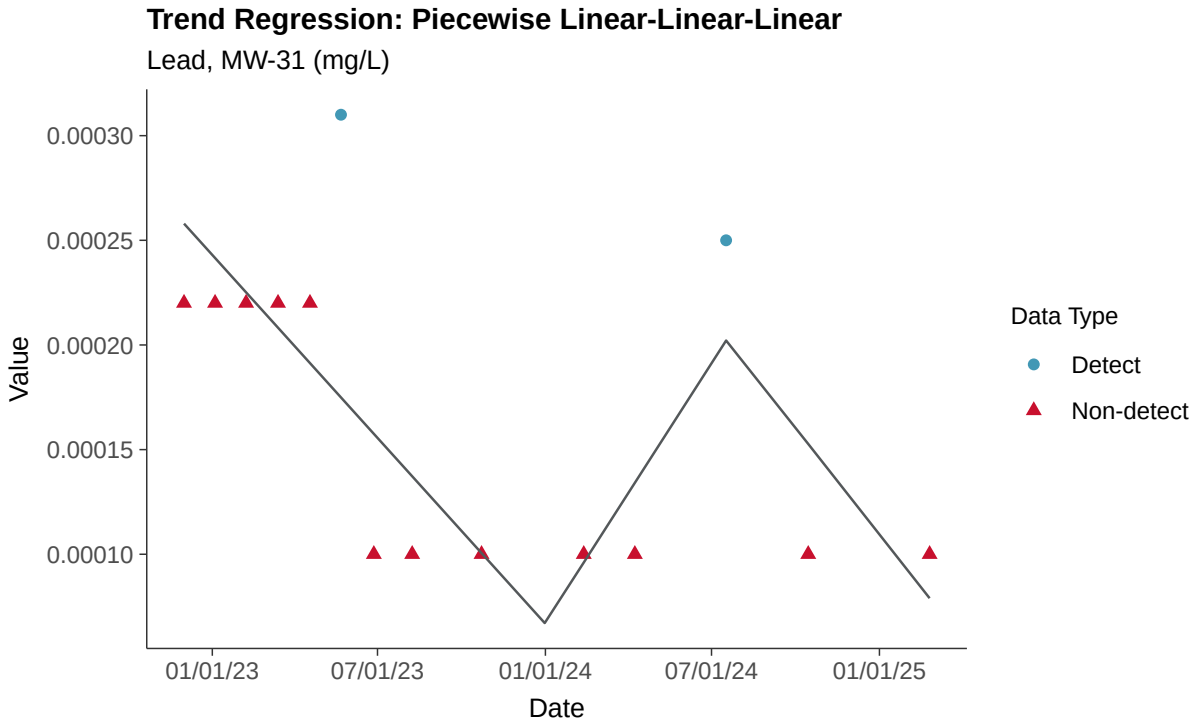
Appendix IV: Lead, MW-31

ID: 41_1_4_115





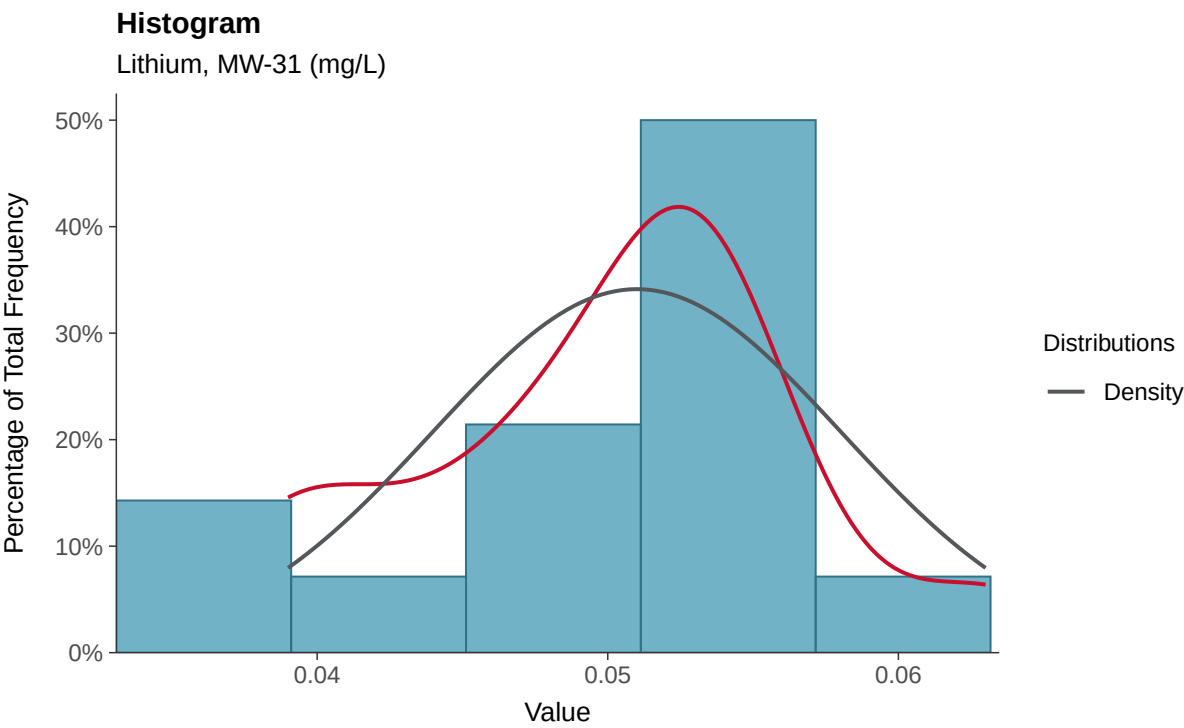
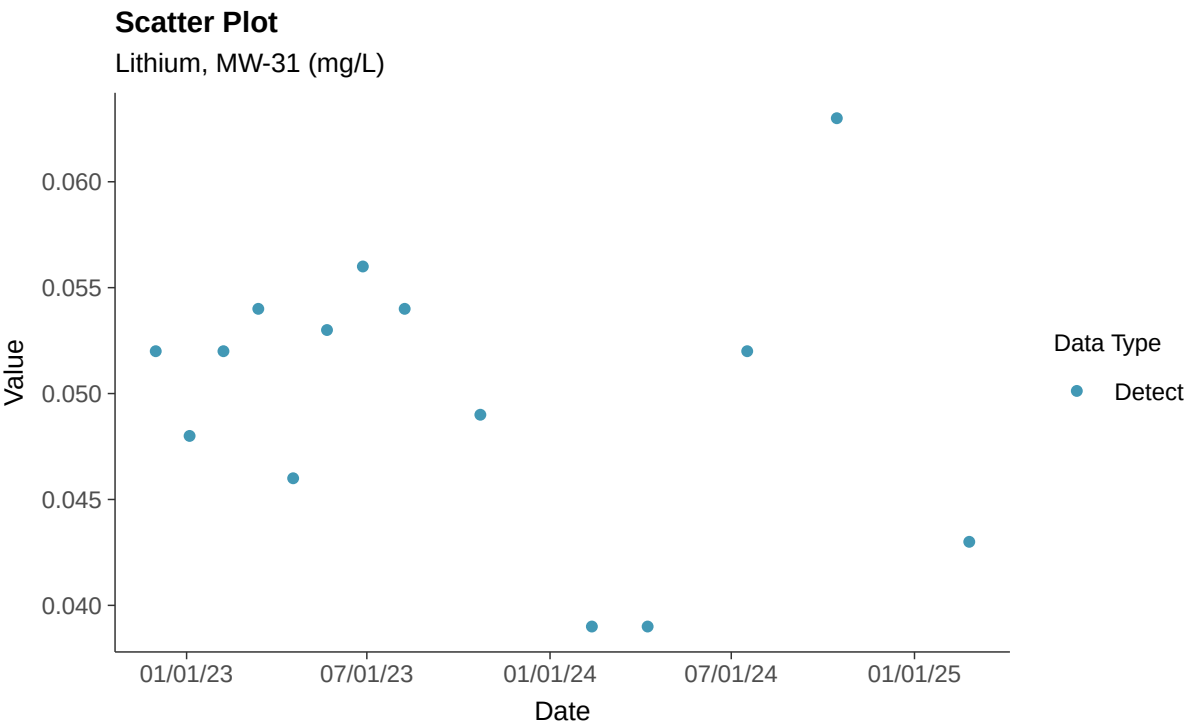


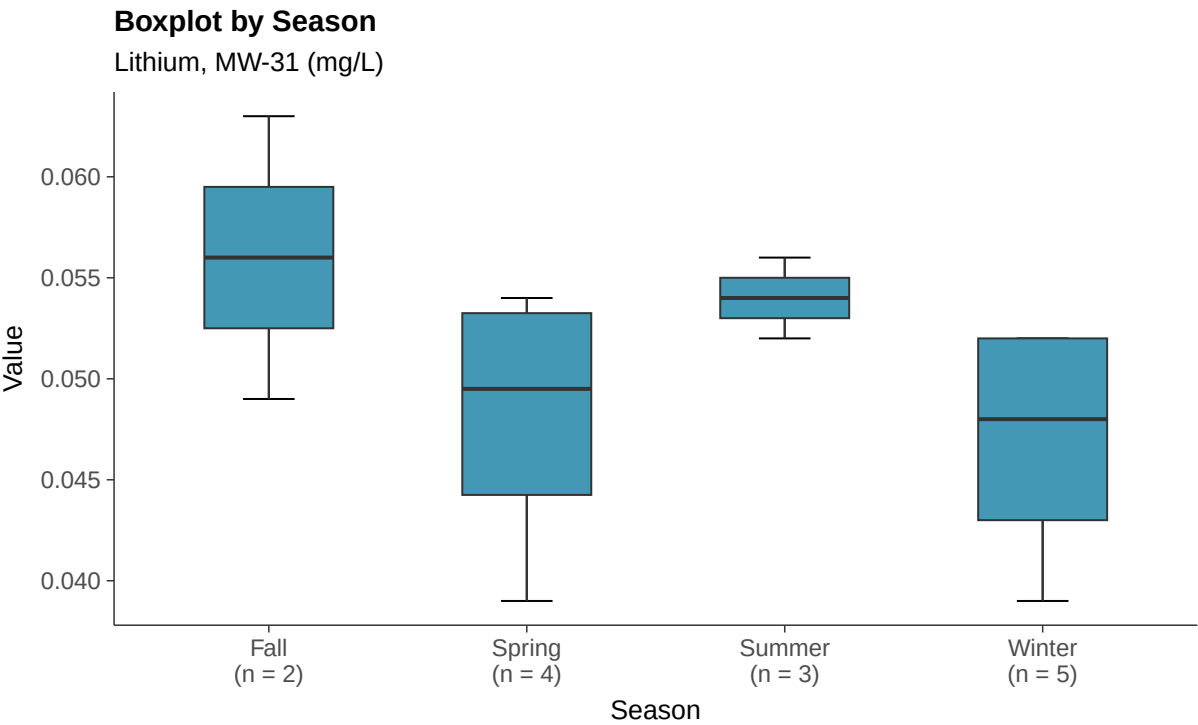
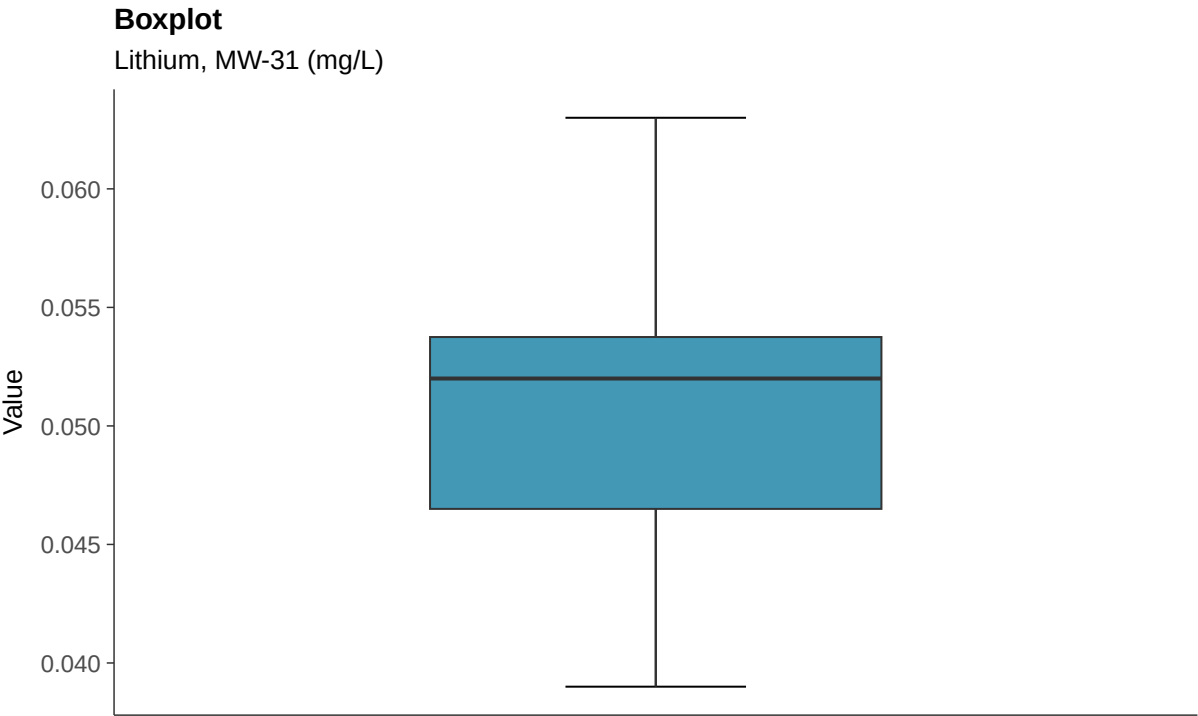


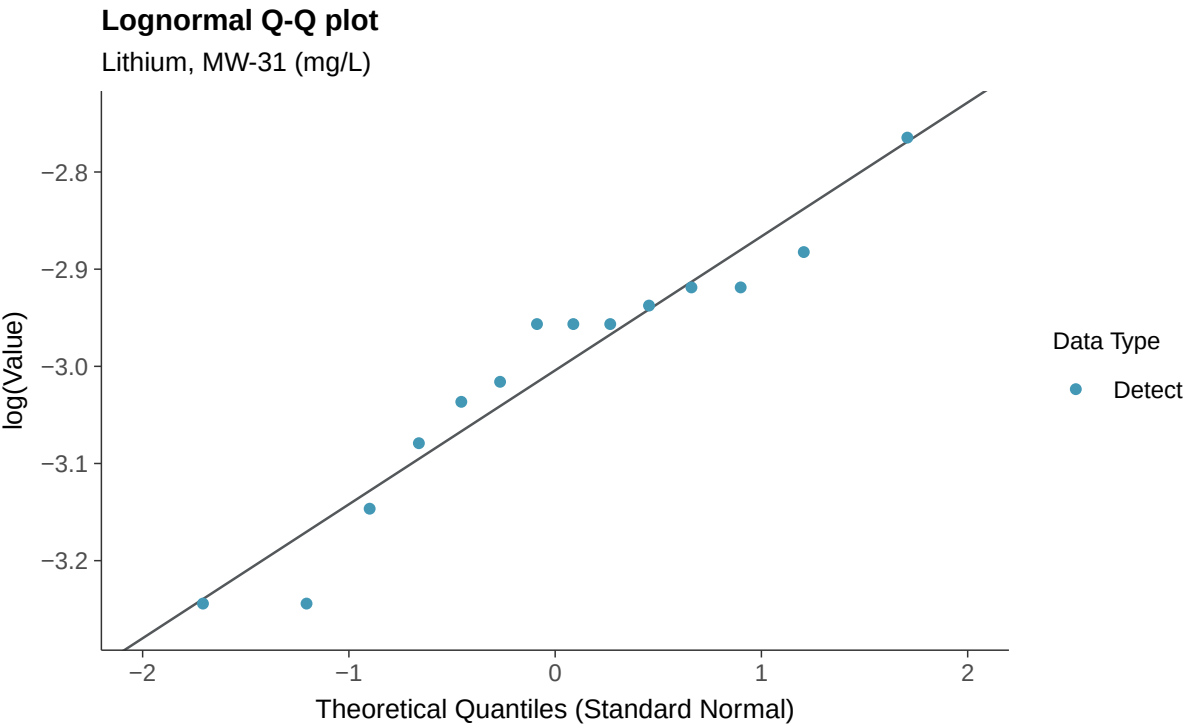
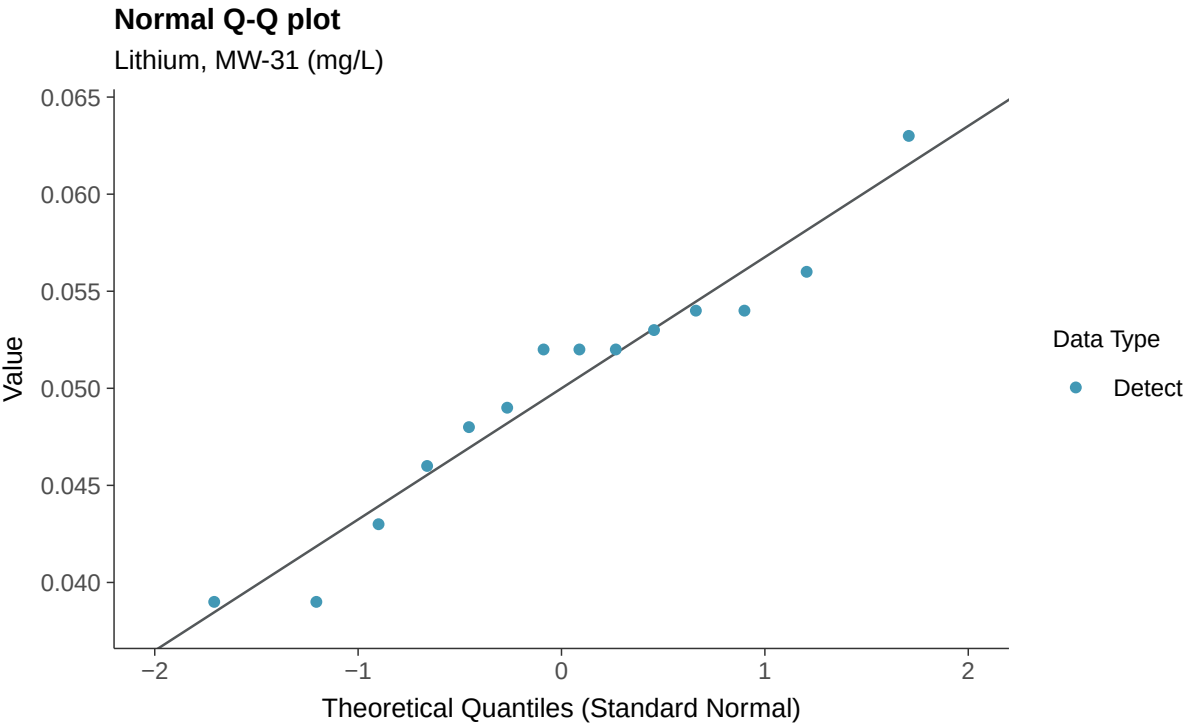


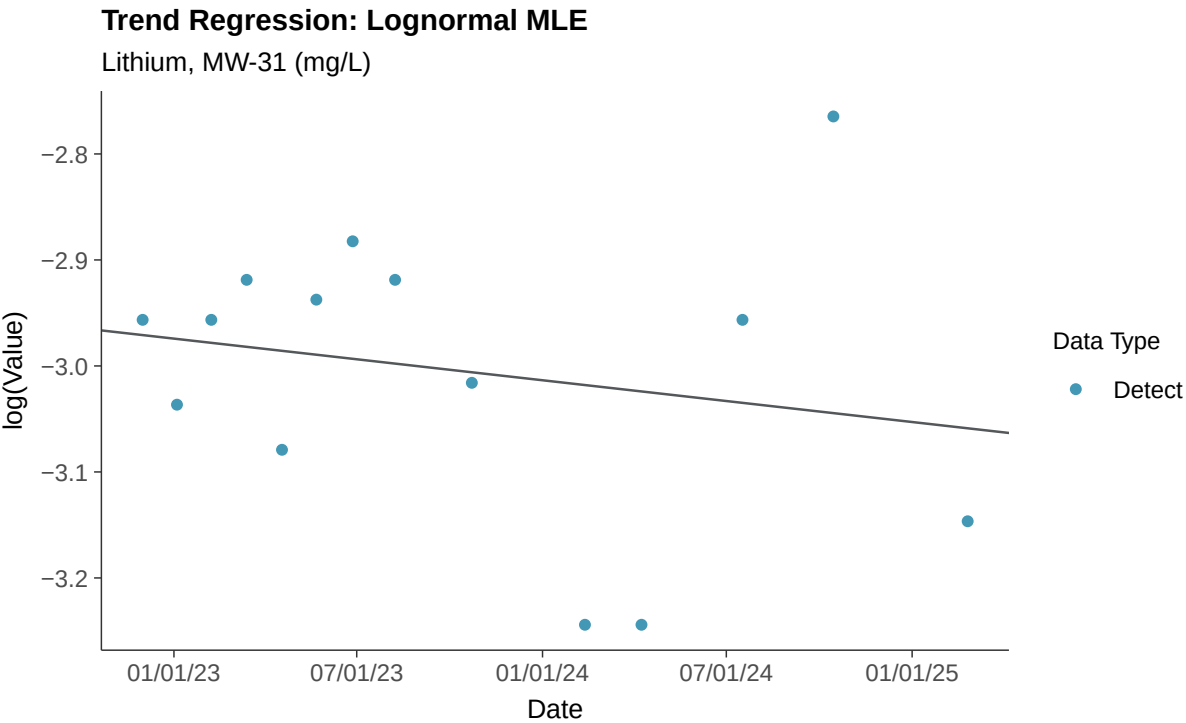
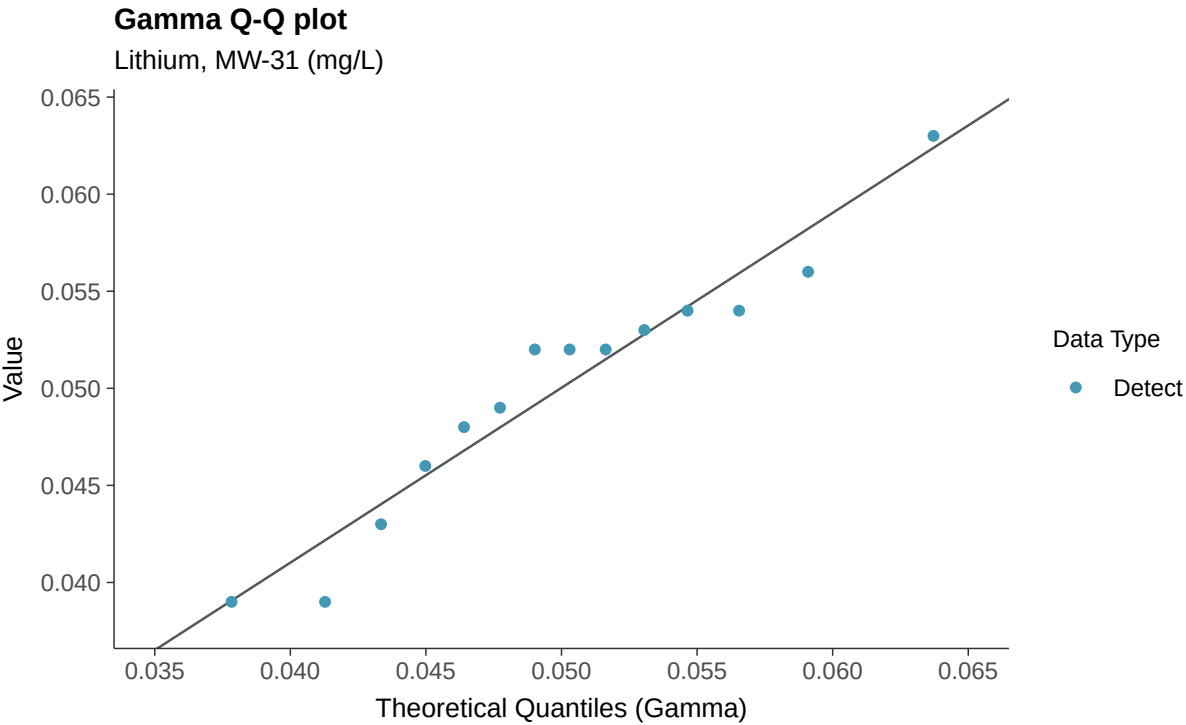
Appendix IV: Lithium, MW-31

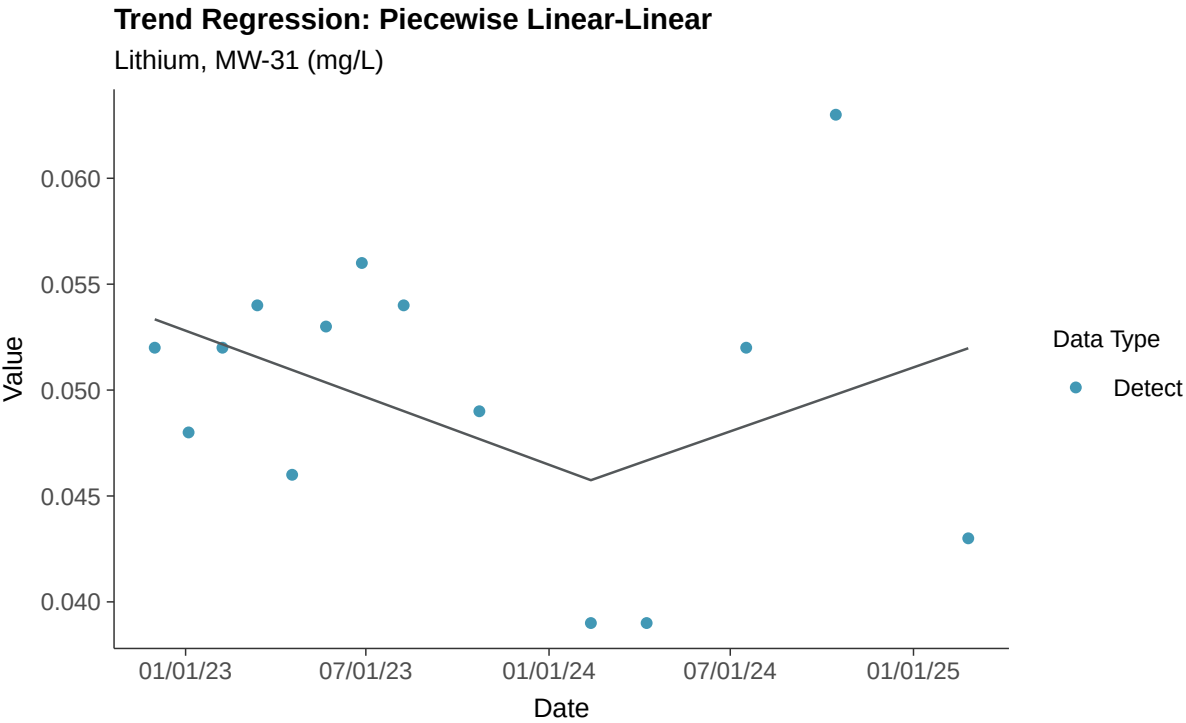
ID: 41_1_4_116







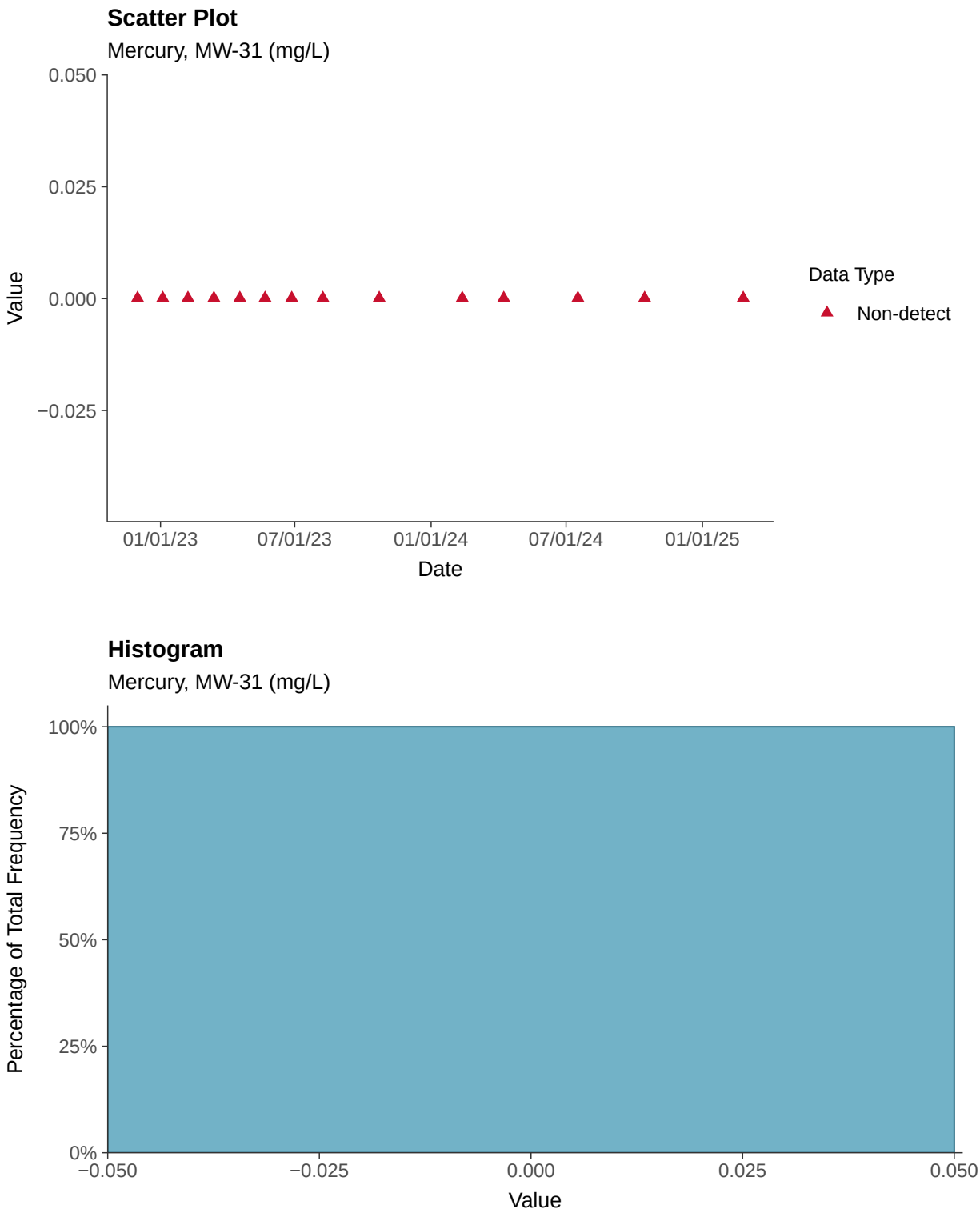


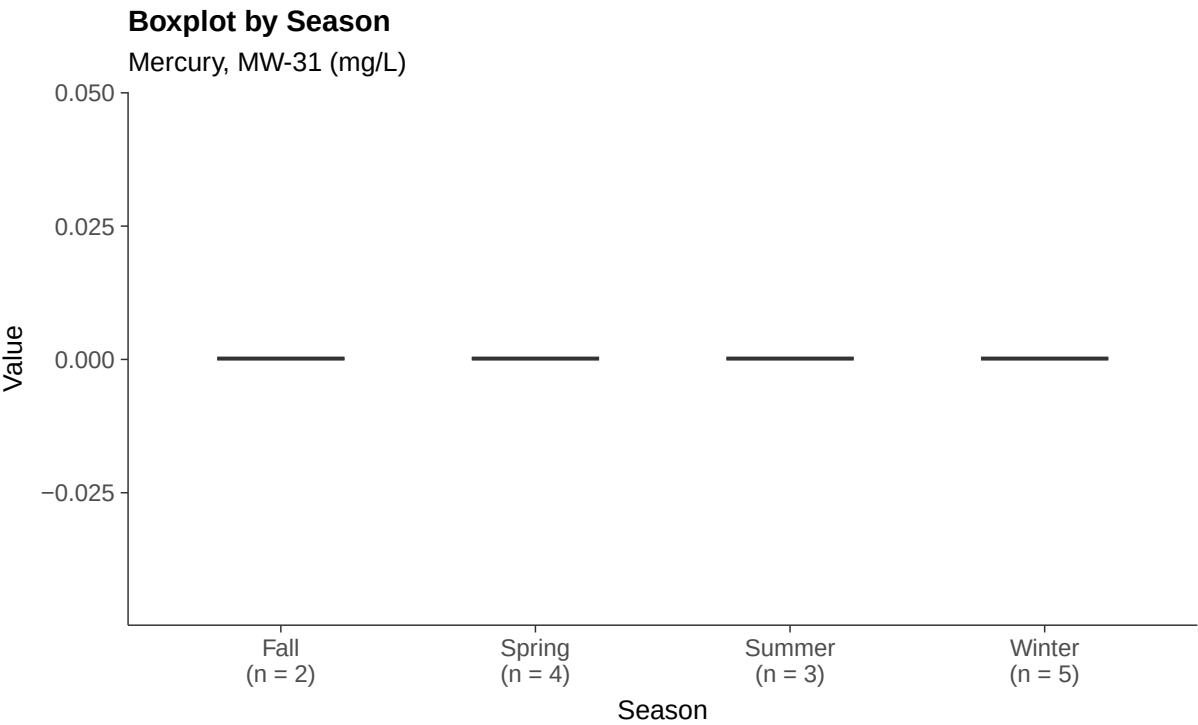
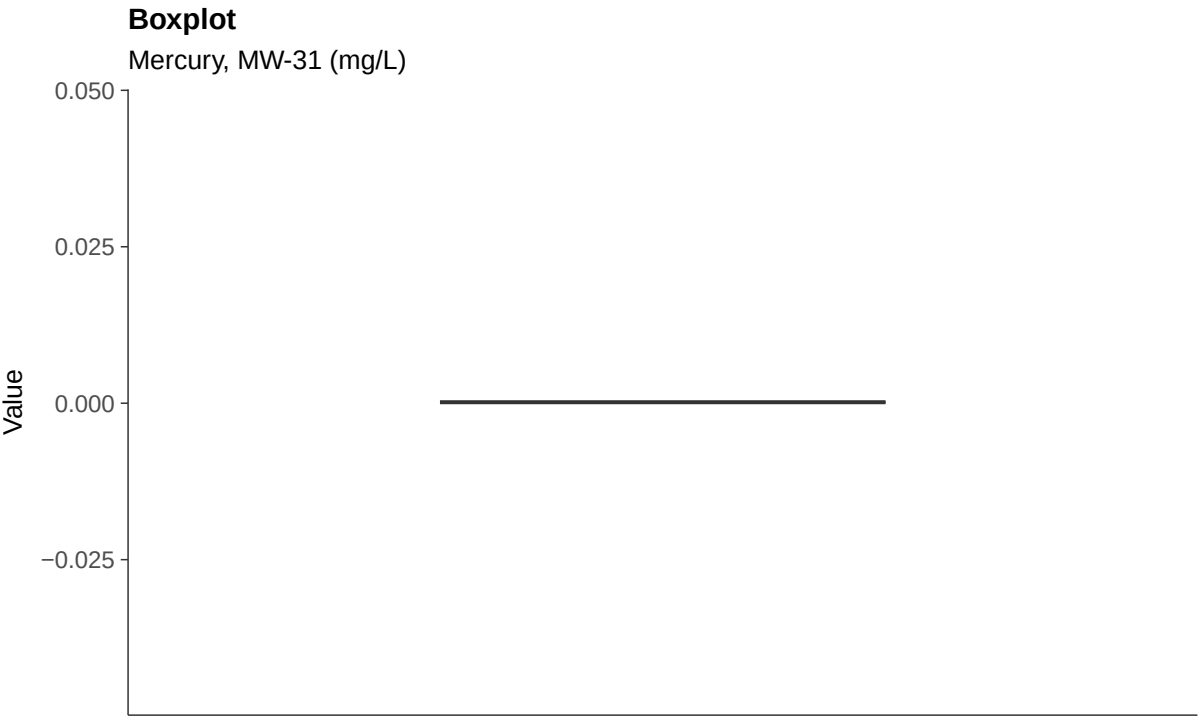




Appendix IV: Mercury, MW-31

ID: 41_1_4_117

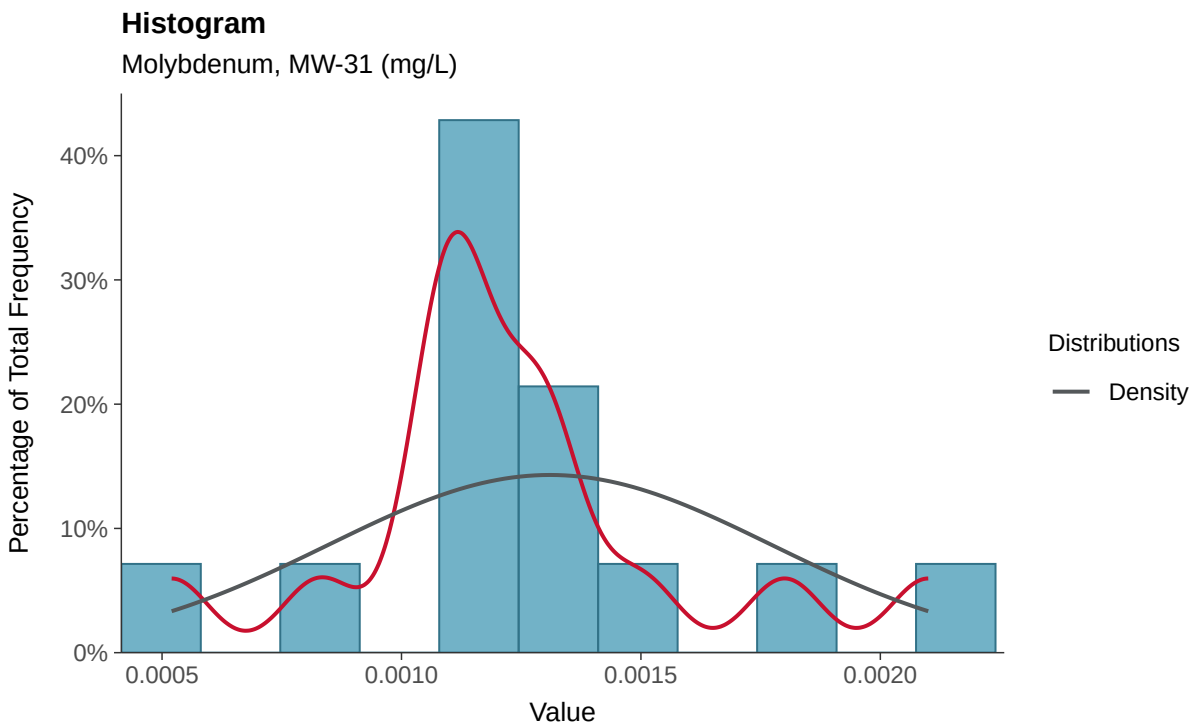
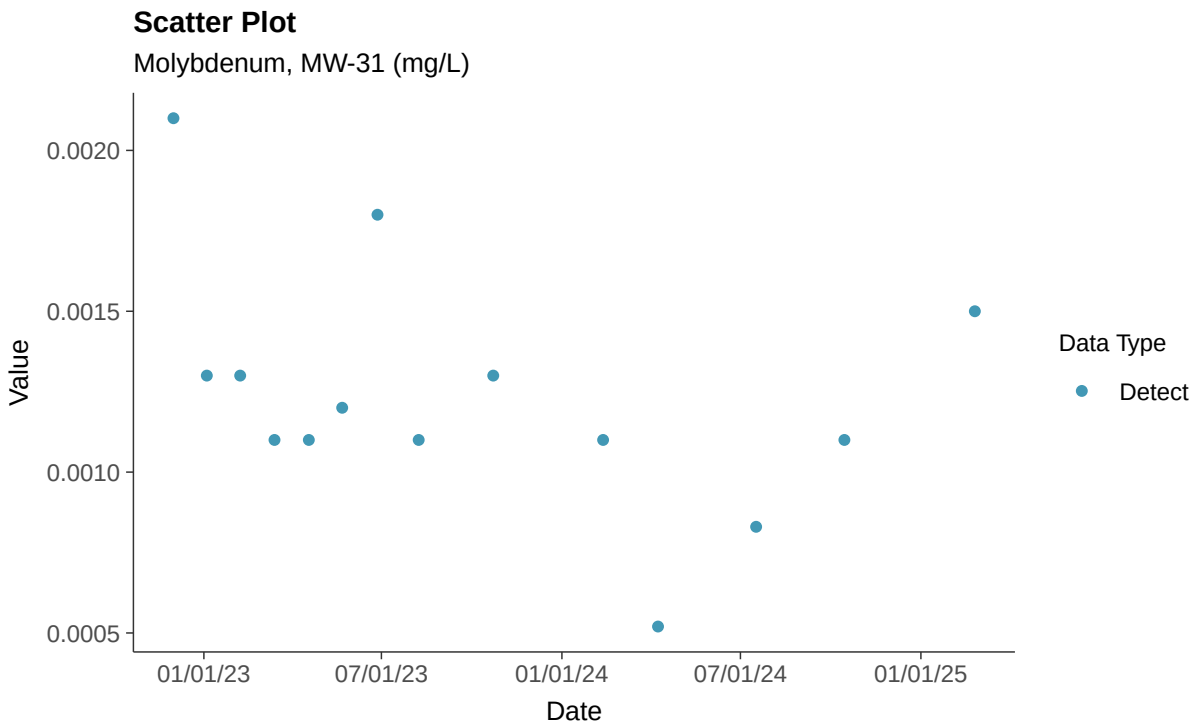


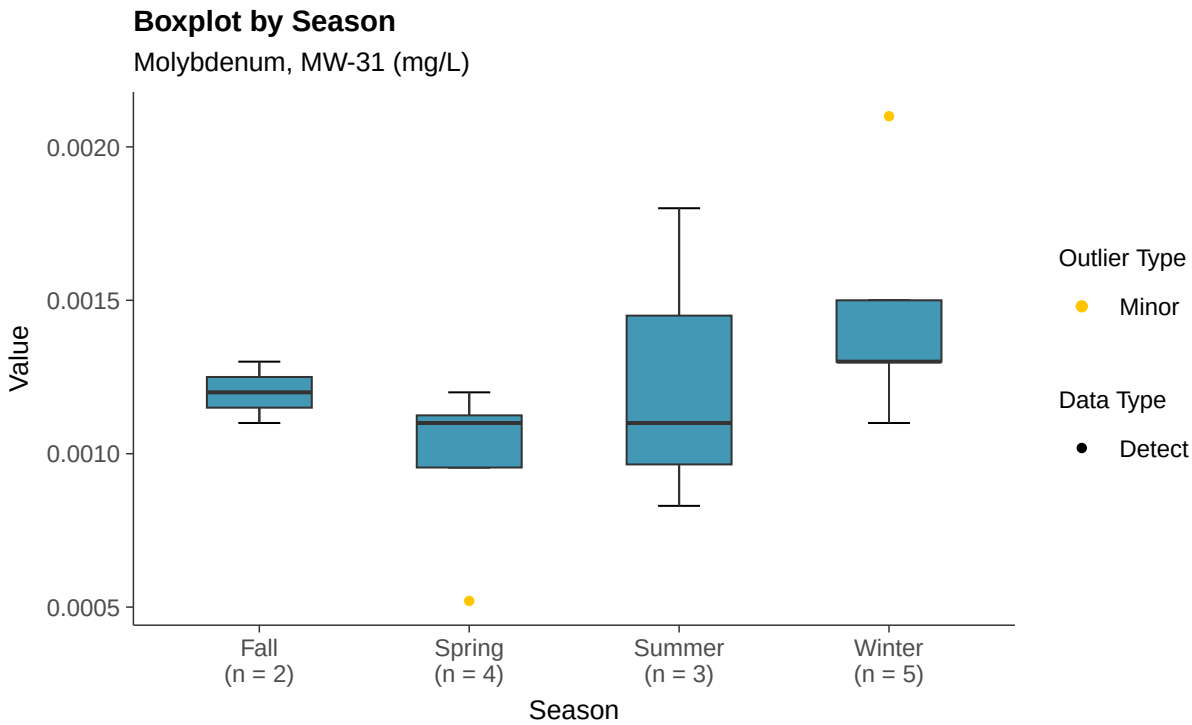
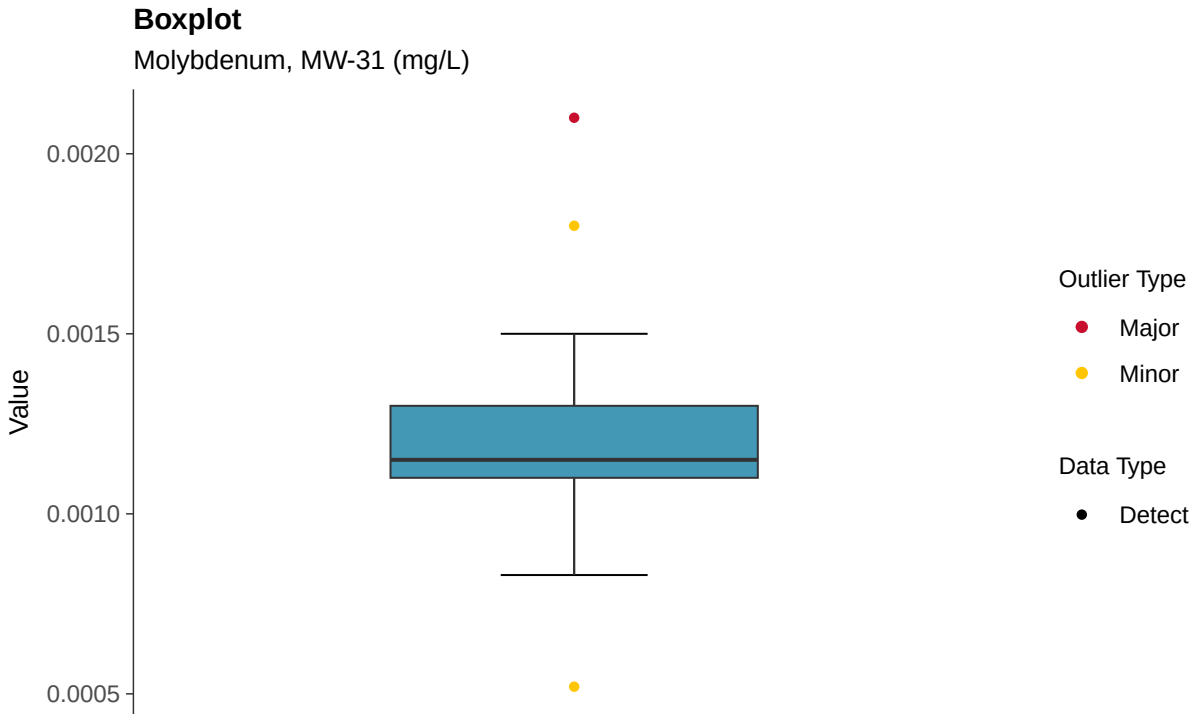


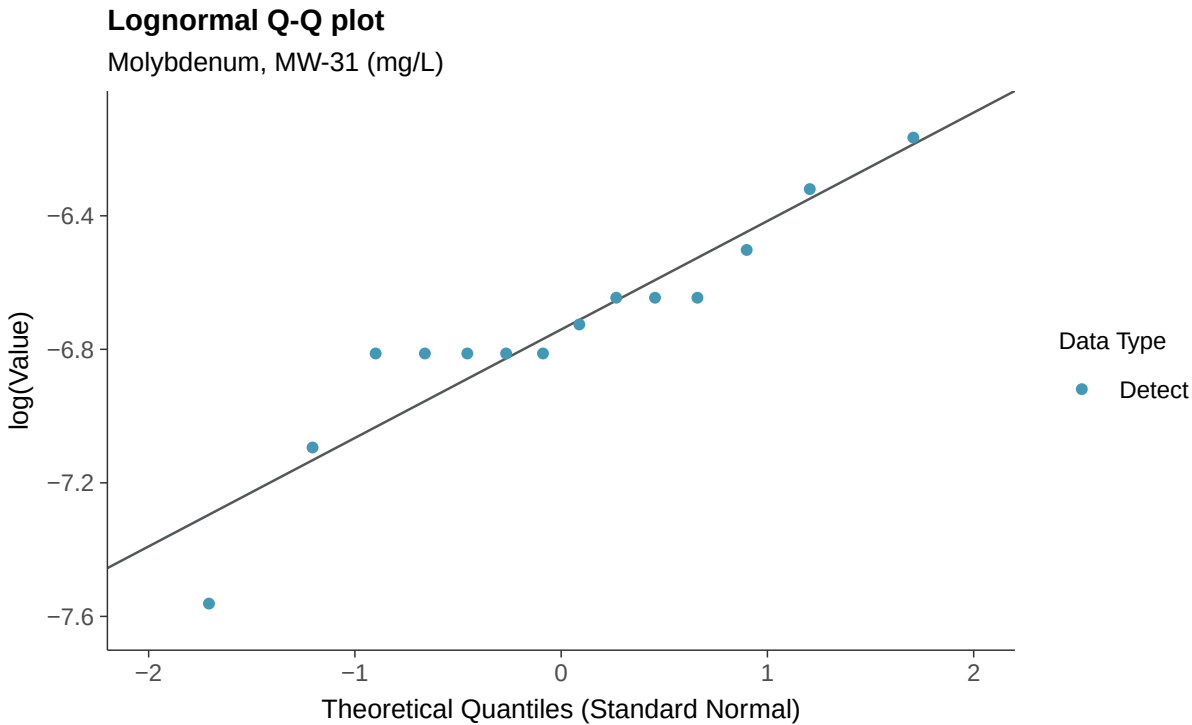
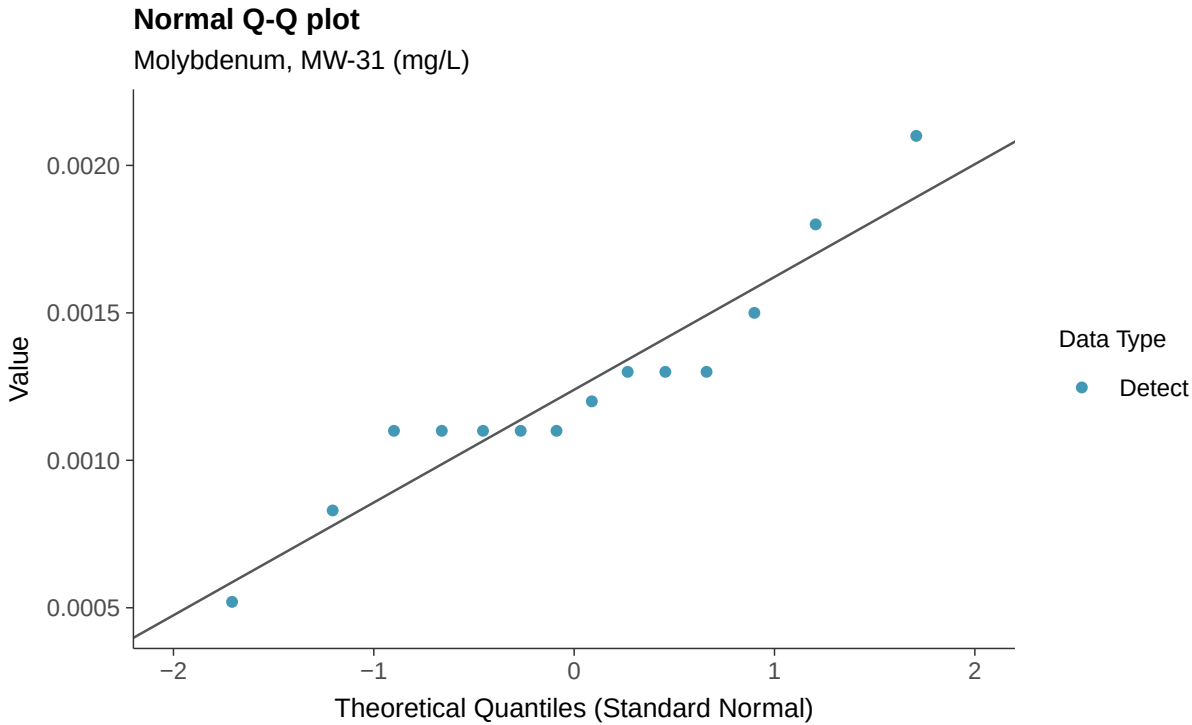


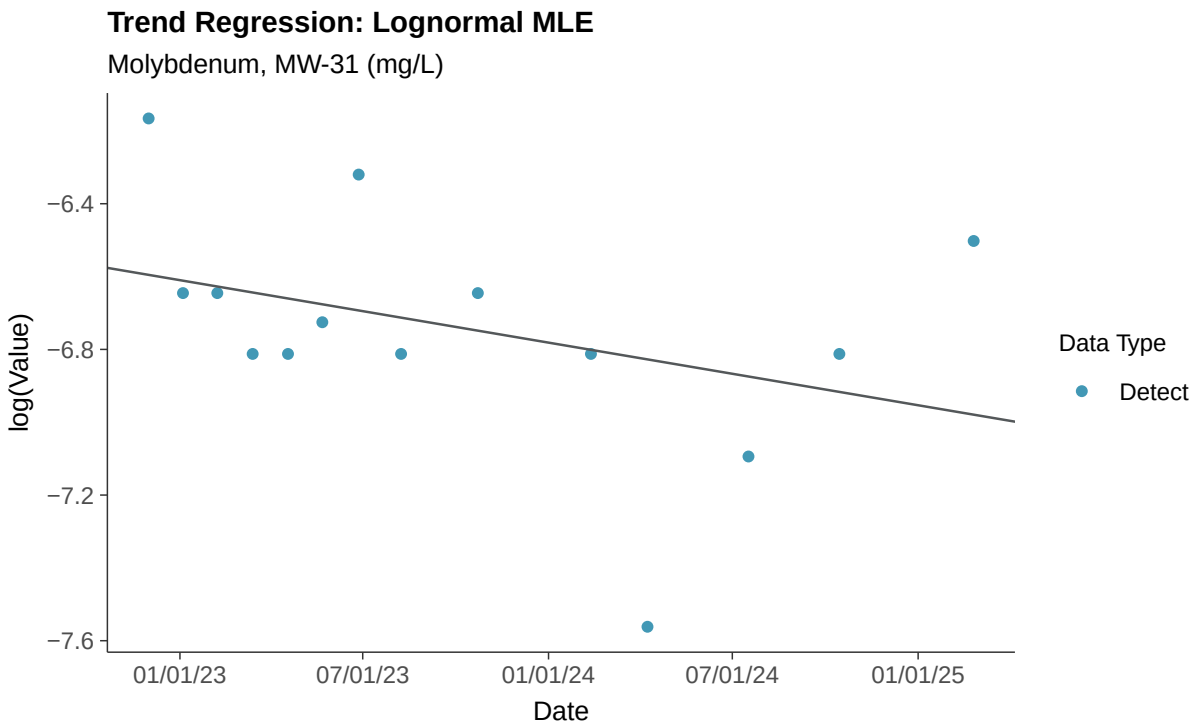
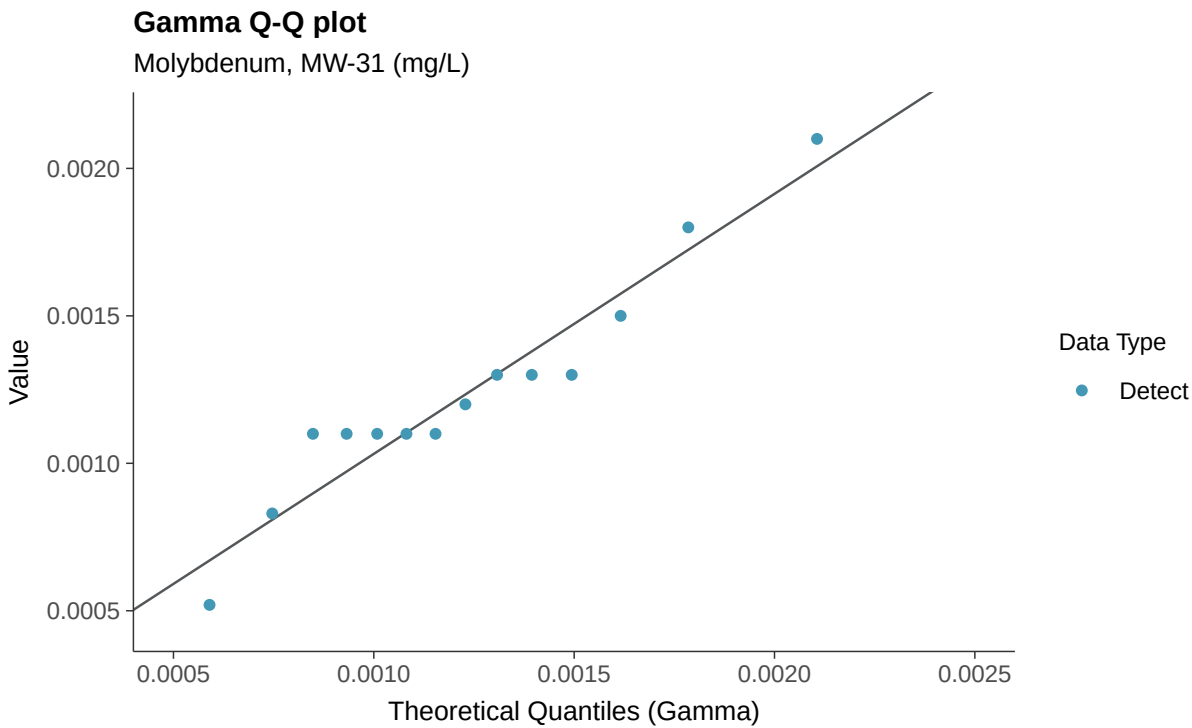
Appendix IV: Molybdenum, MW-31

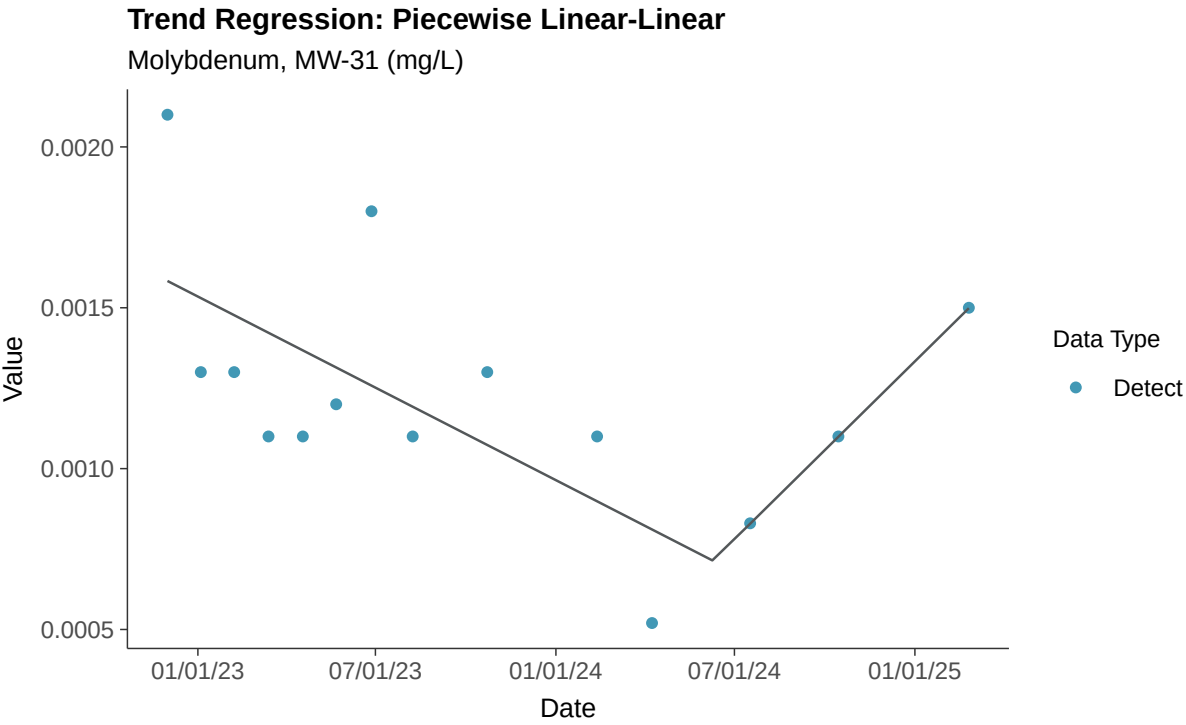
ID: 41_1_4_118







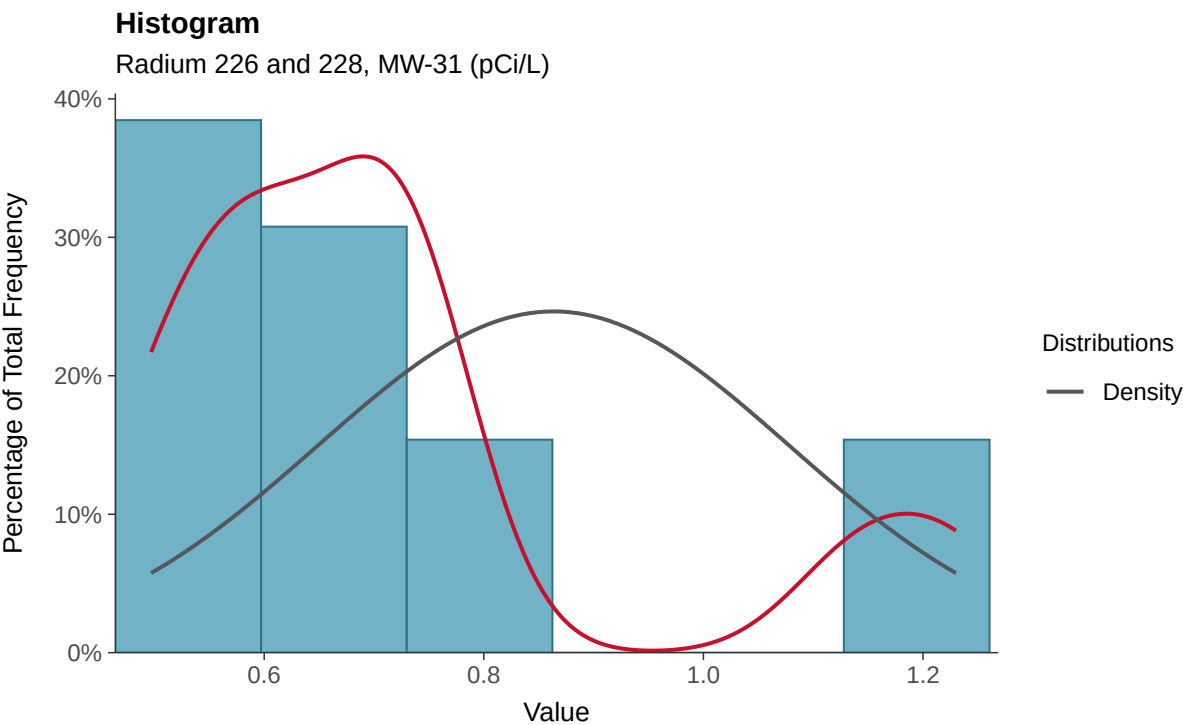
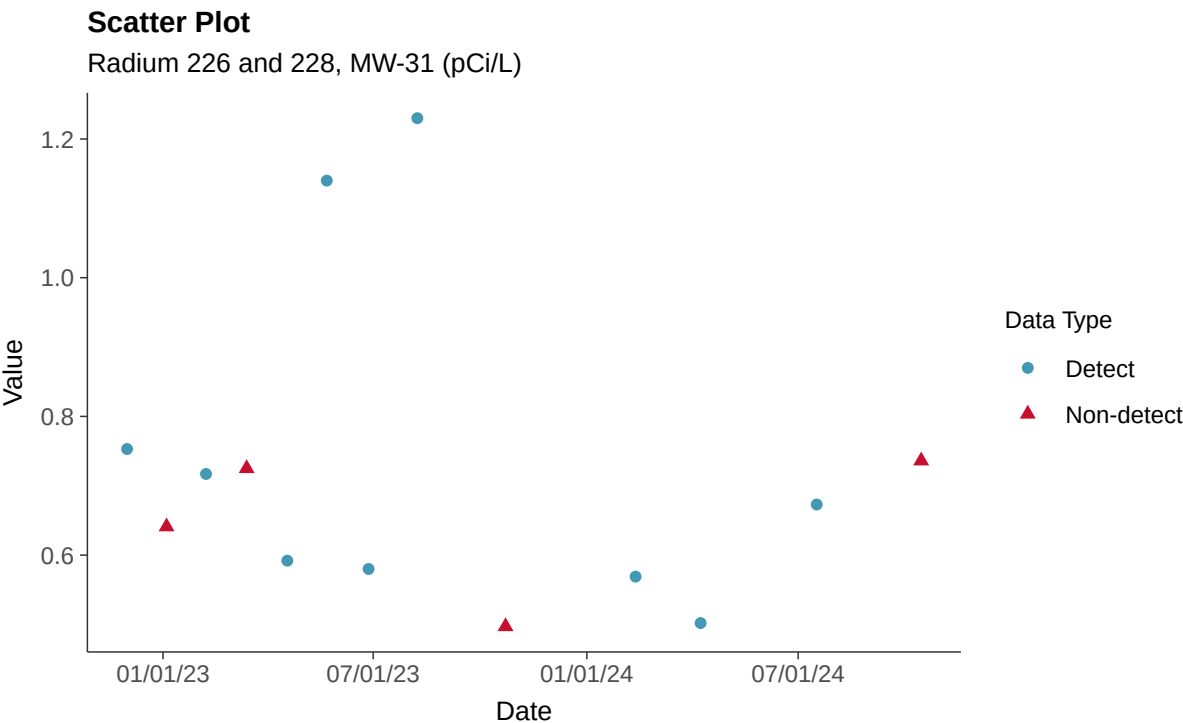


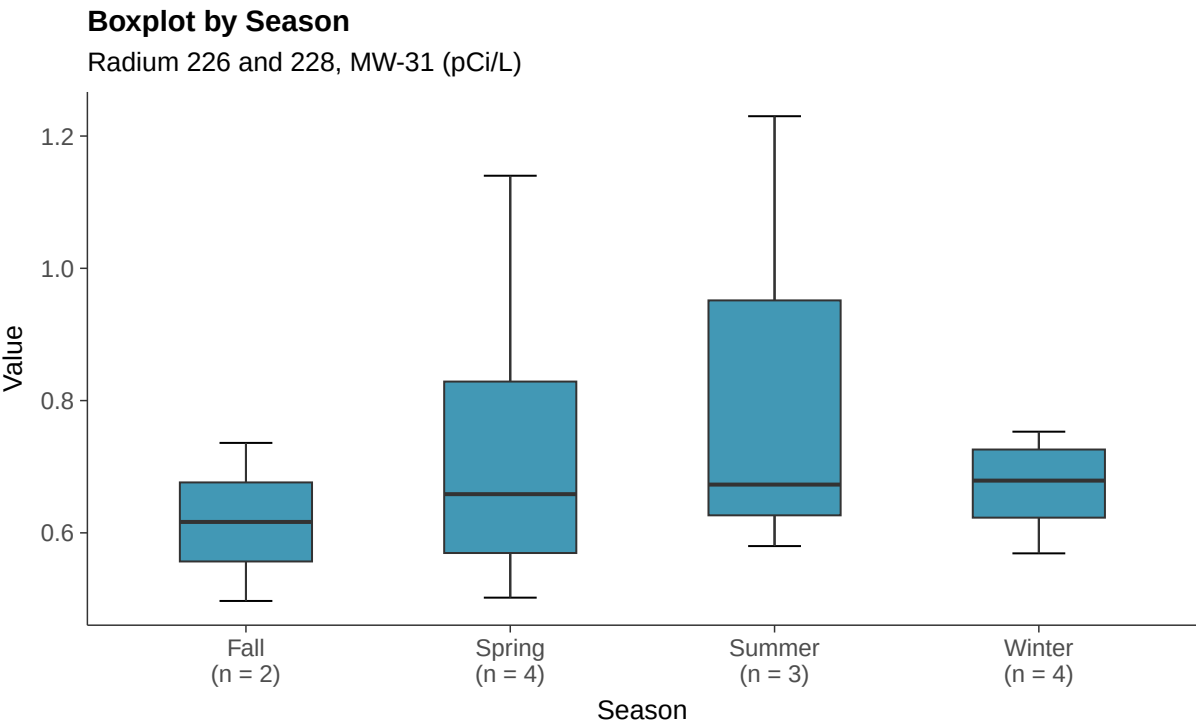
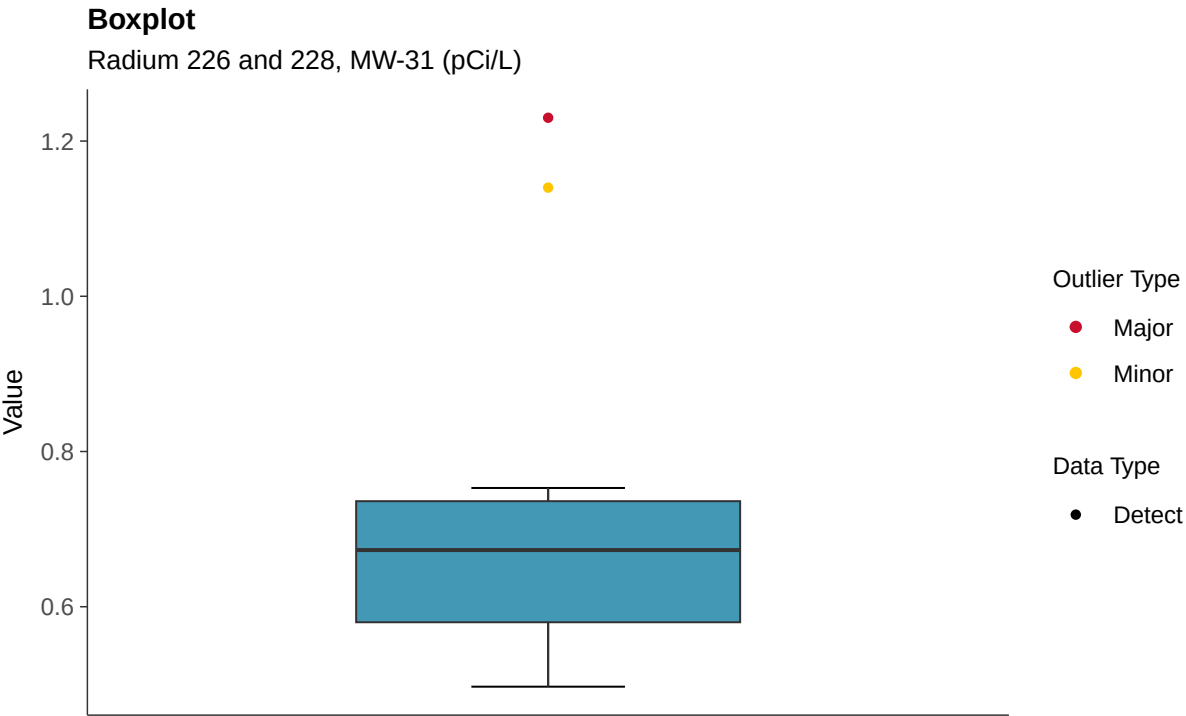




Appendix IV: Radium 226 and 228, MW-31

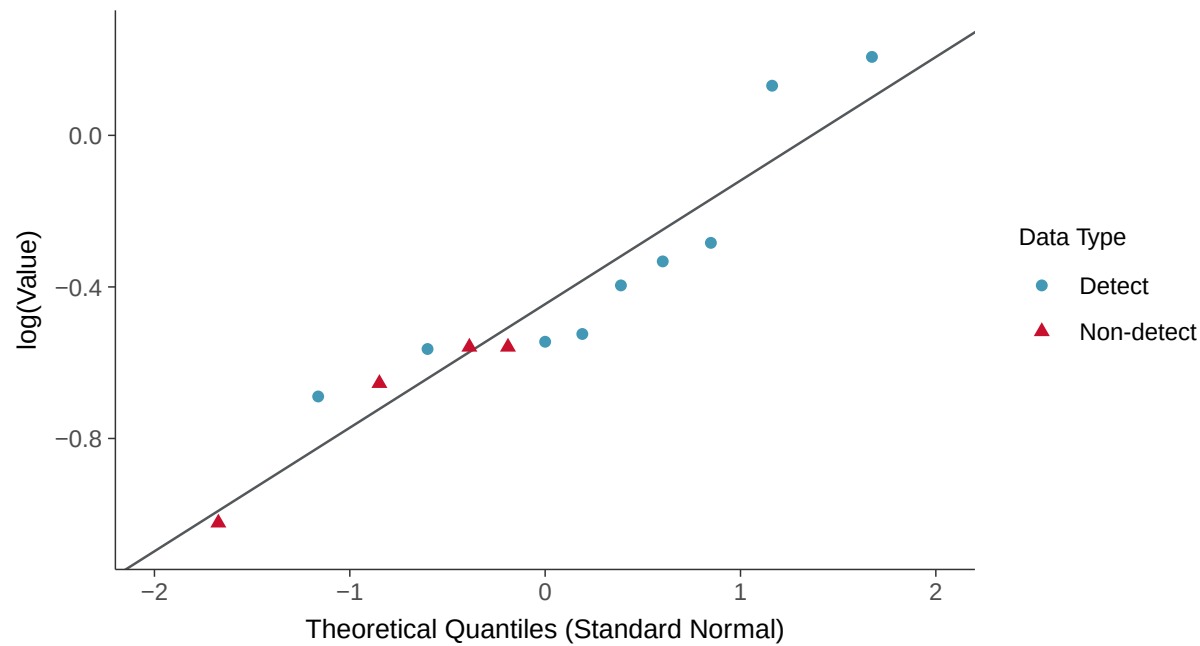
ID: 41_1_4_121



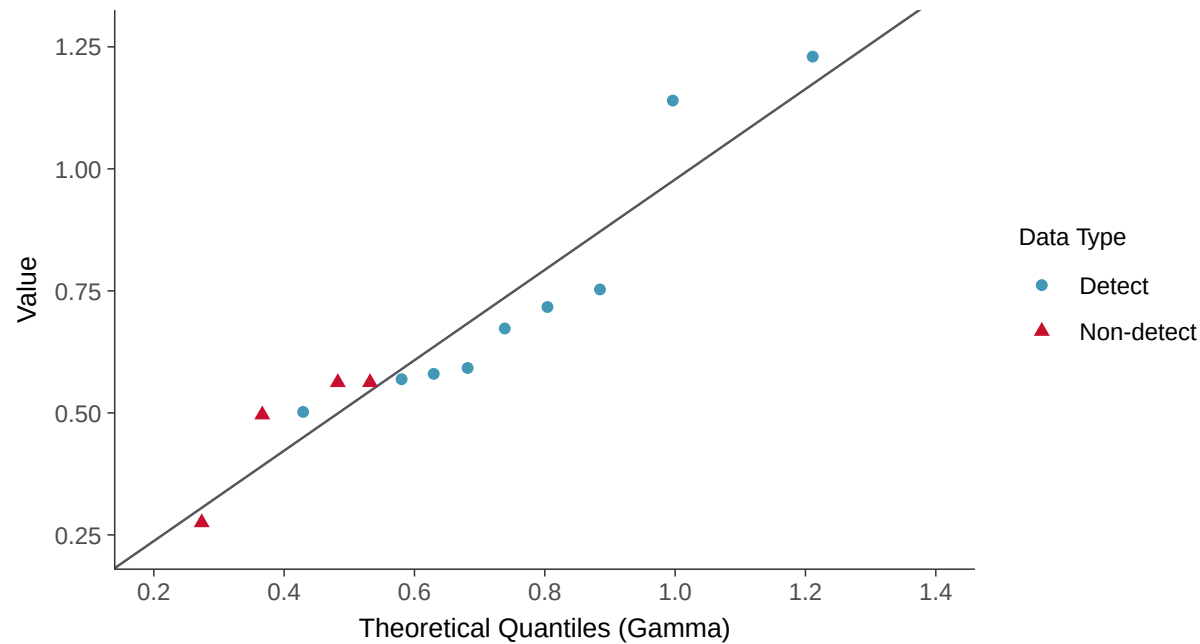


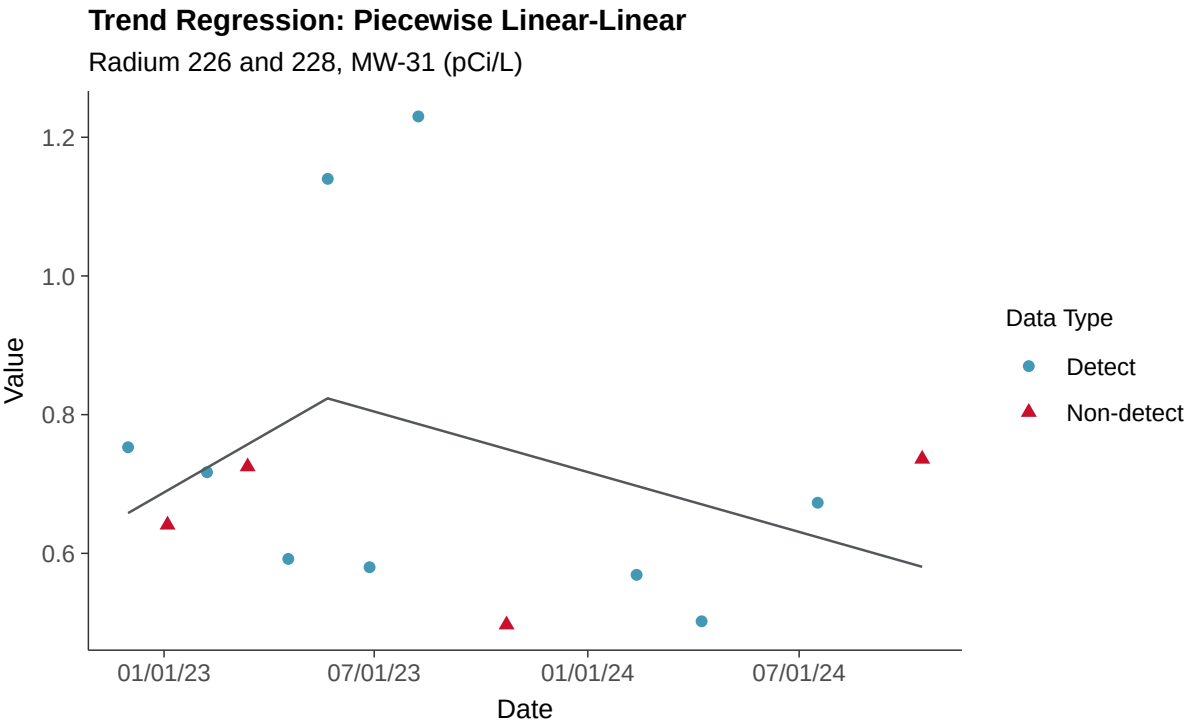
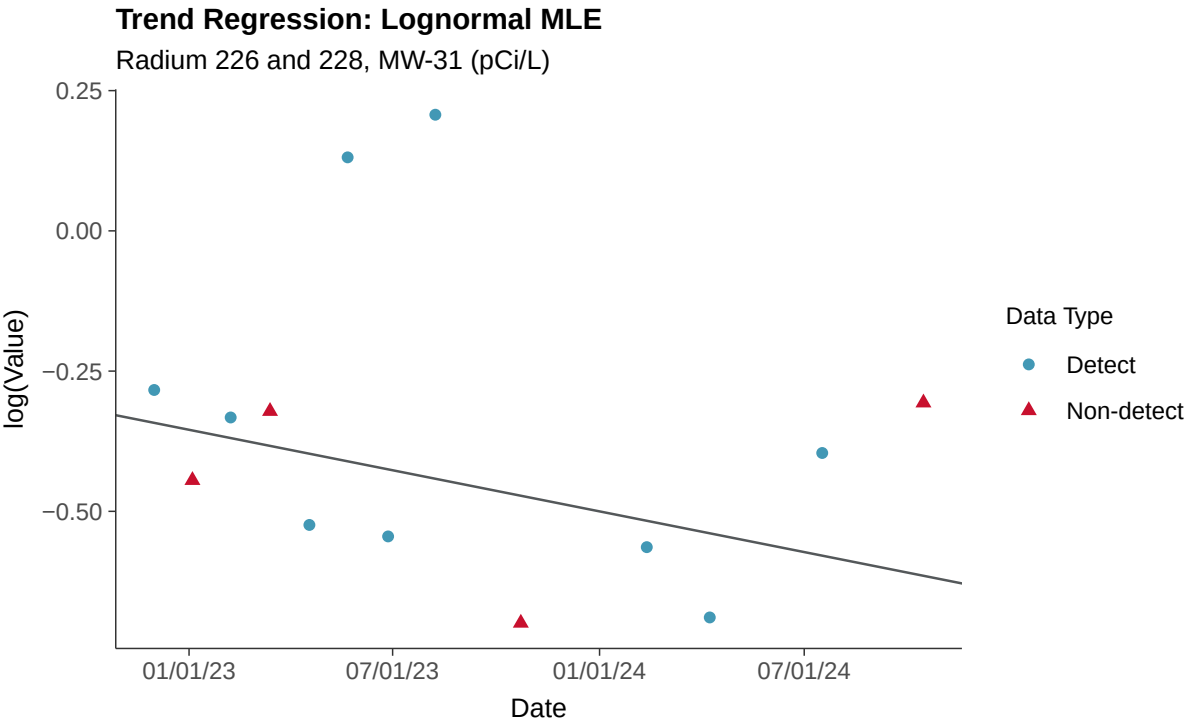


Lognormal Q-Q plot using ROS Imputed Estimates
Radium 226 and 228, MW-31 (pCi/L)



Gamma Q-Q plot using ROS Imputed Estimates
Radium 226 and 228, MW-31 (pCi/L)

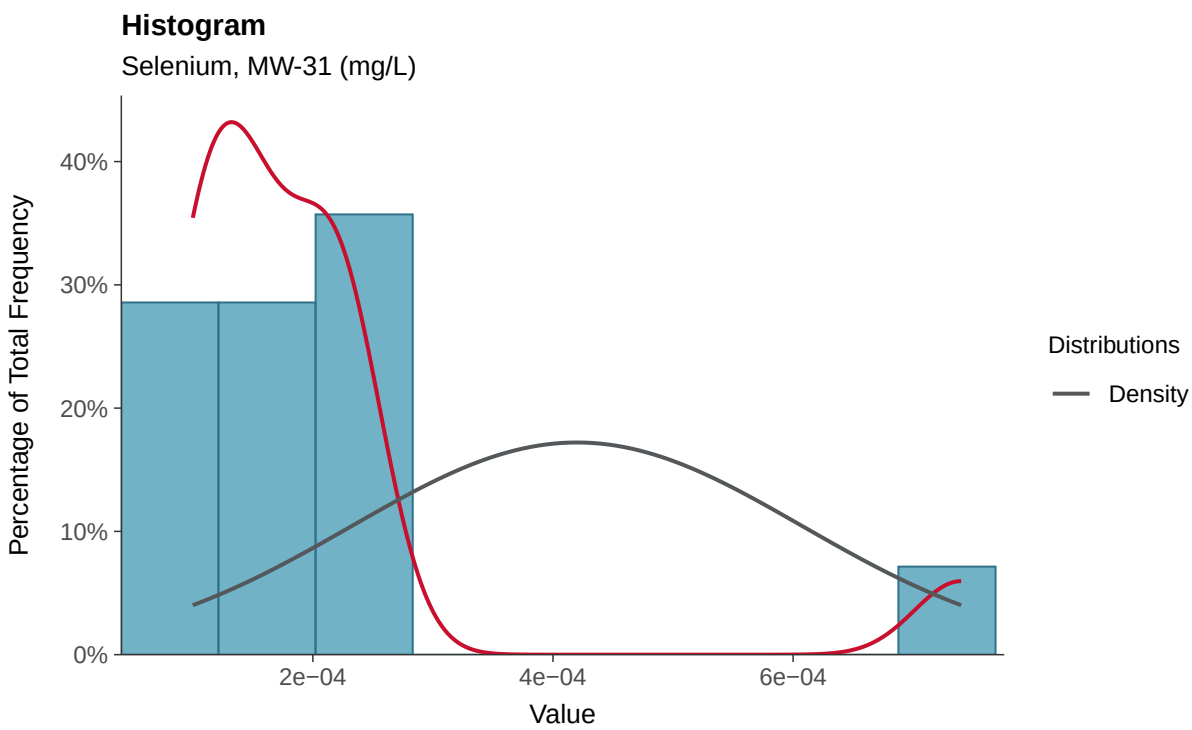
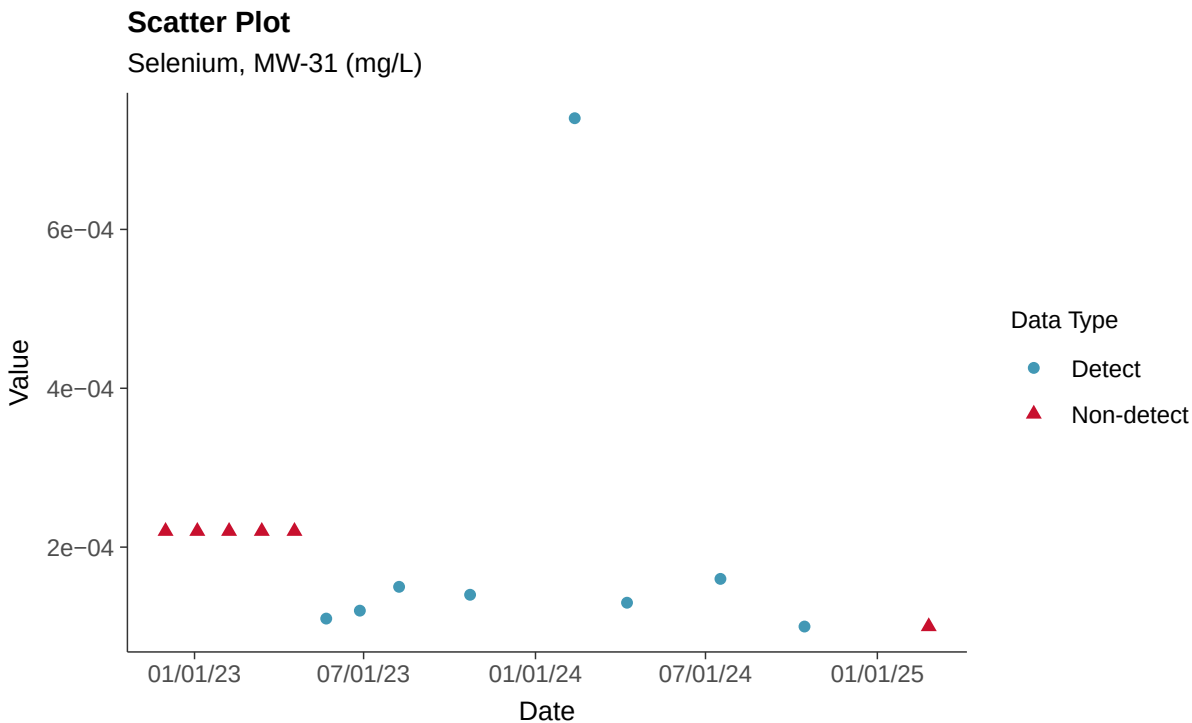


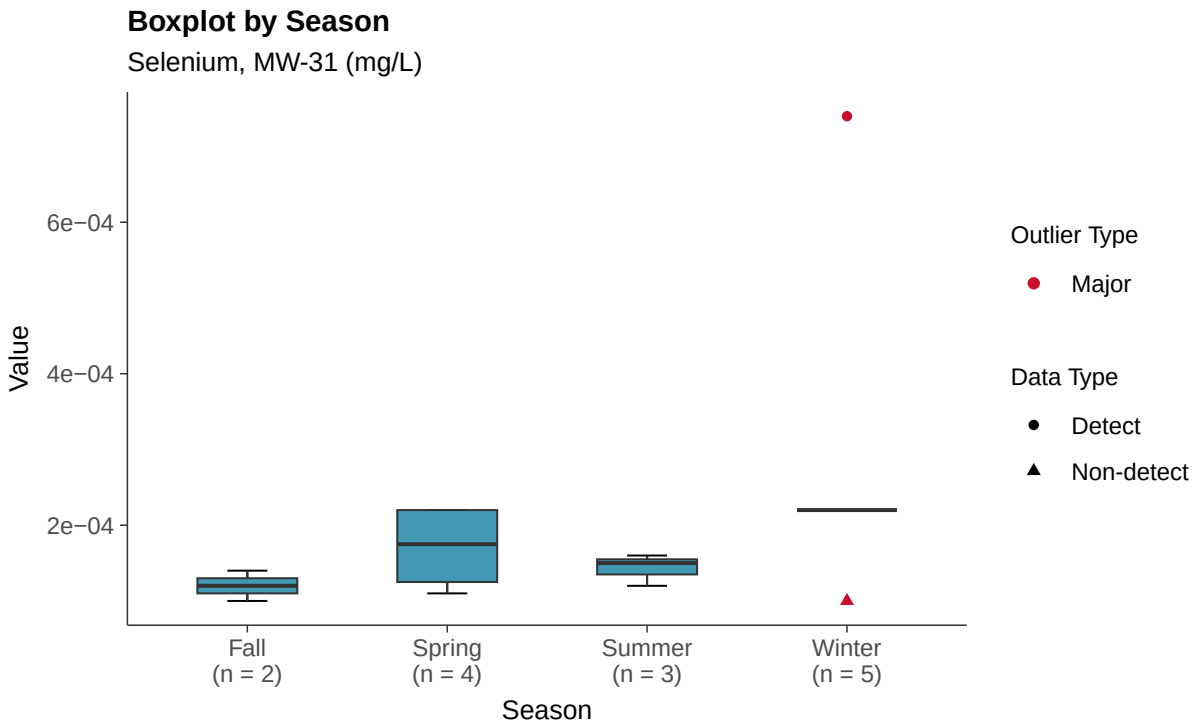
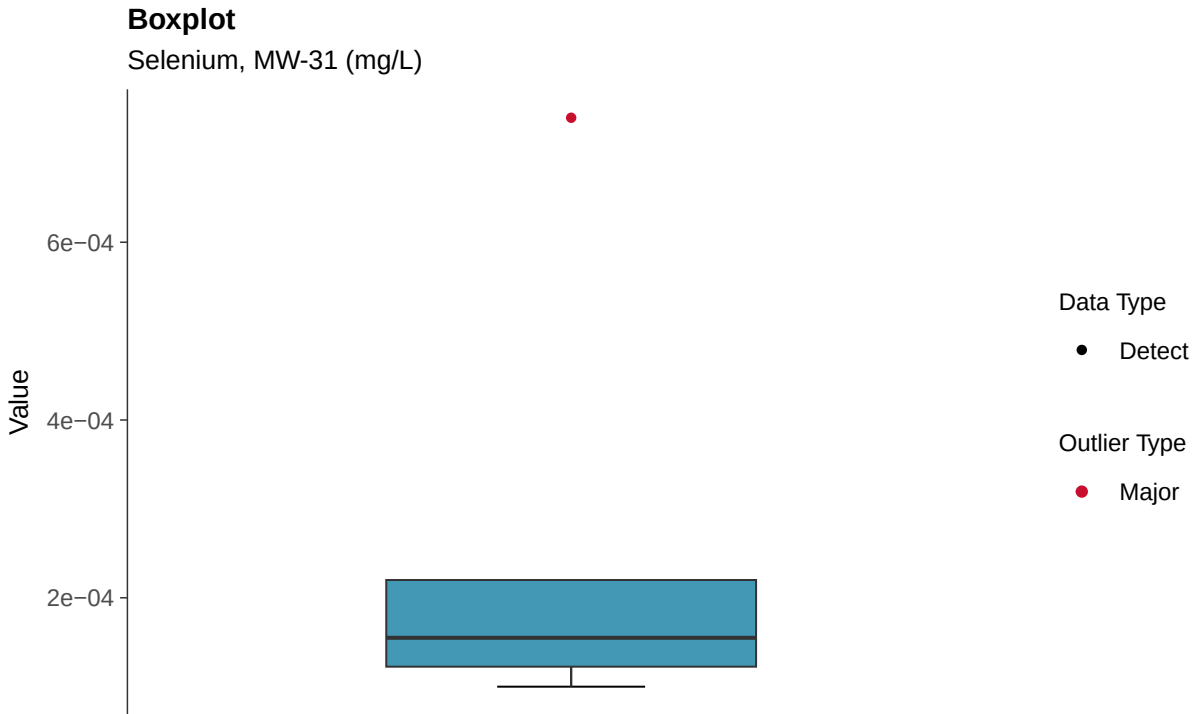




Appendix IV: Selenium, MW-31

ID: 41_1_4_122

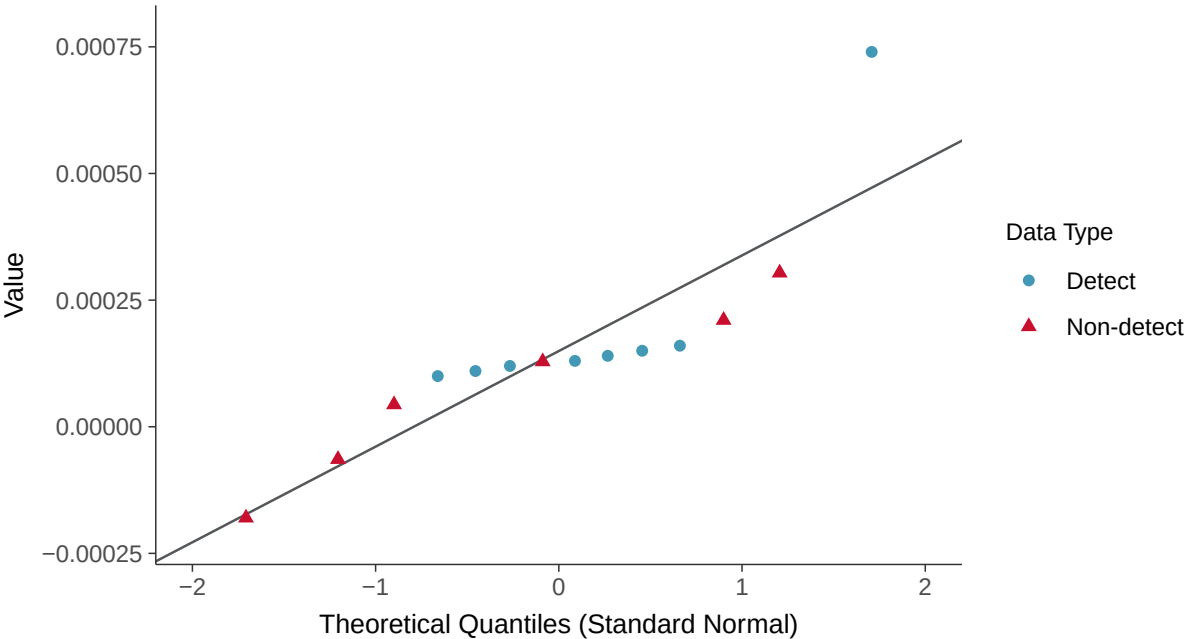






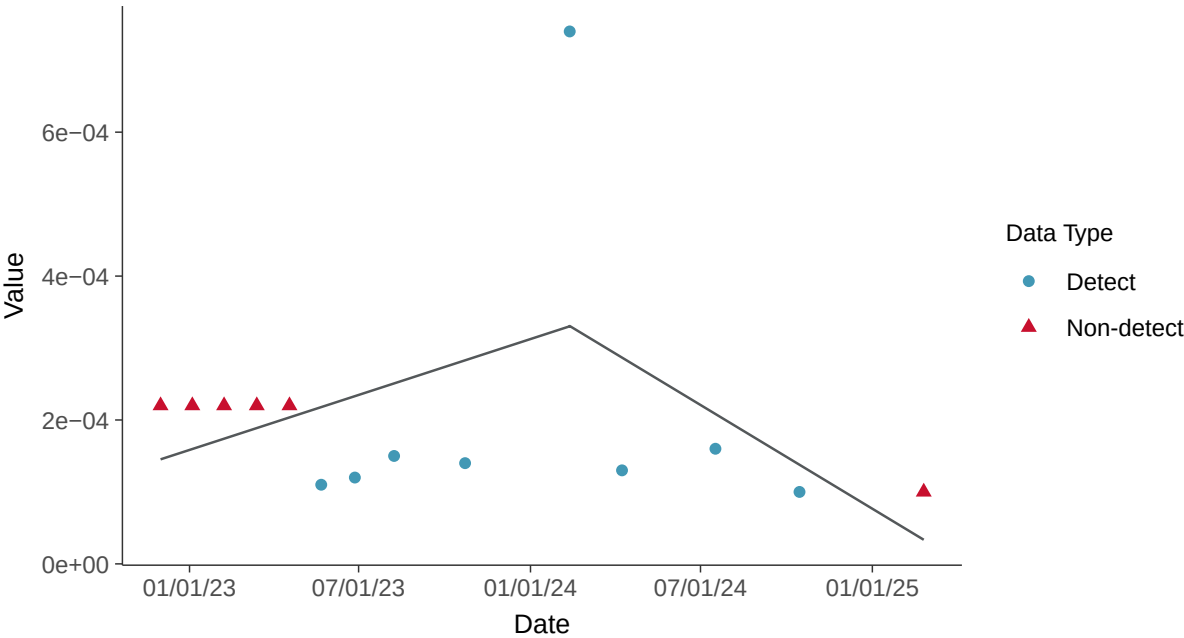
Normal Q-Q plot using ROS Imputed Estimates

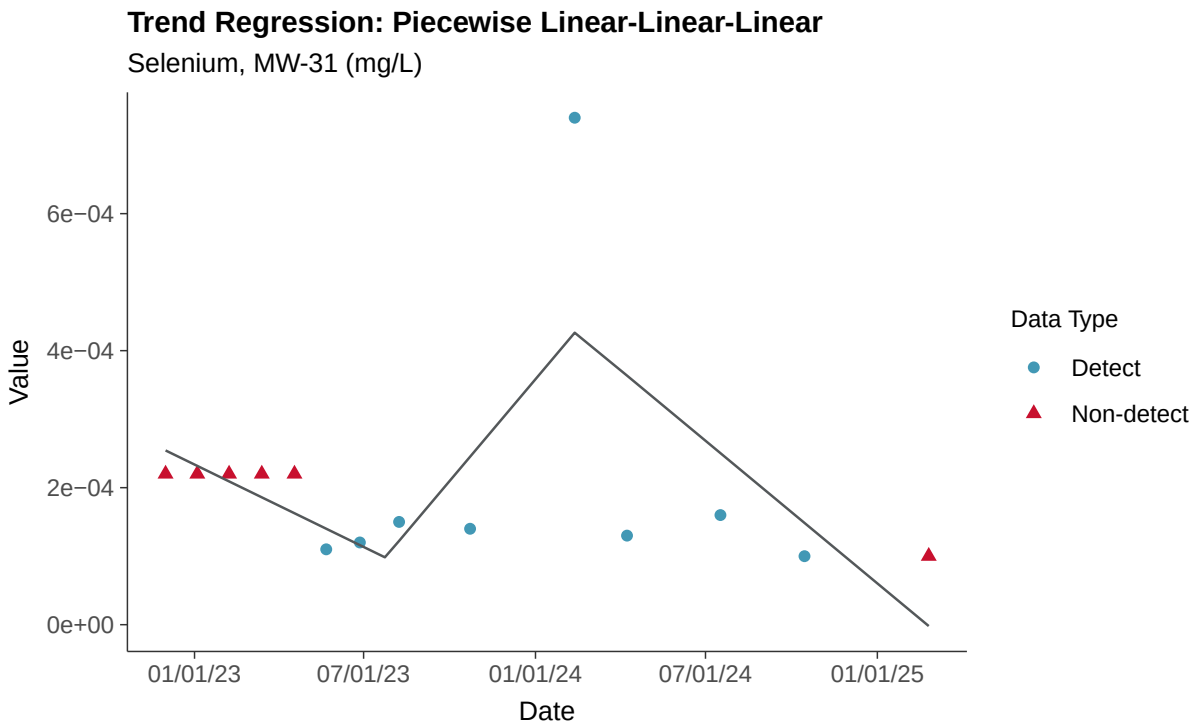
Selenium, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-31 (mg/L)

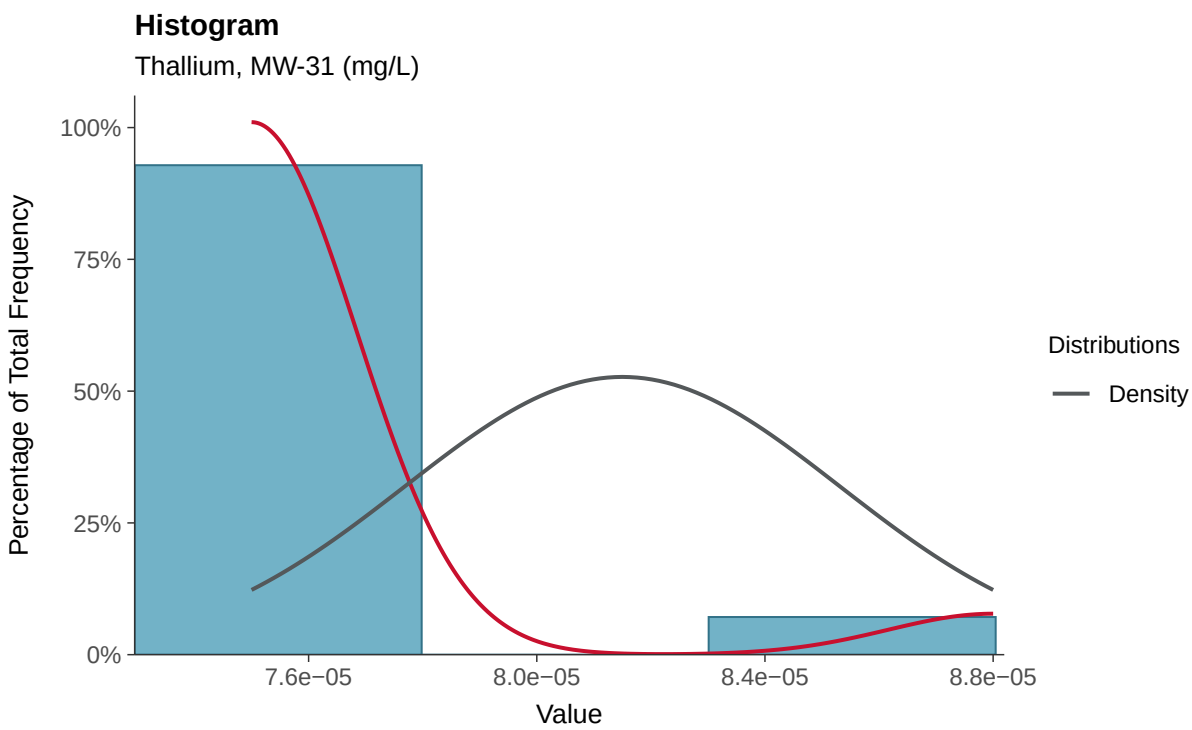
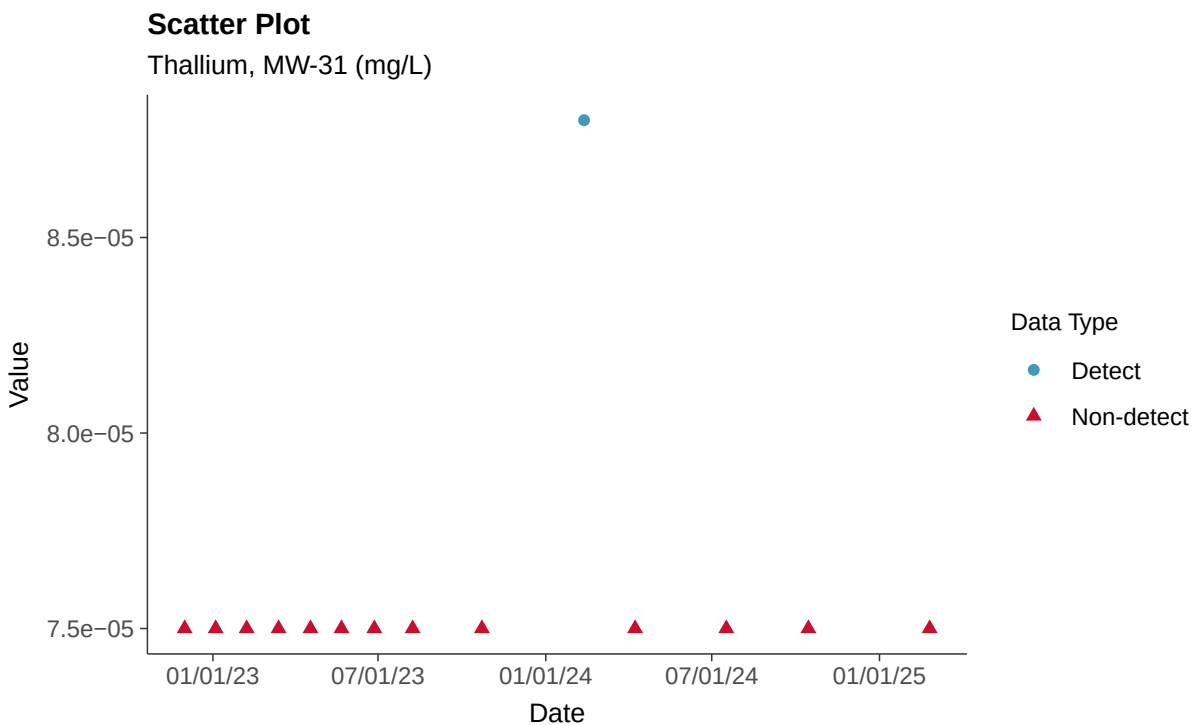


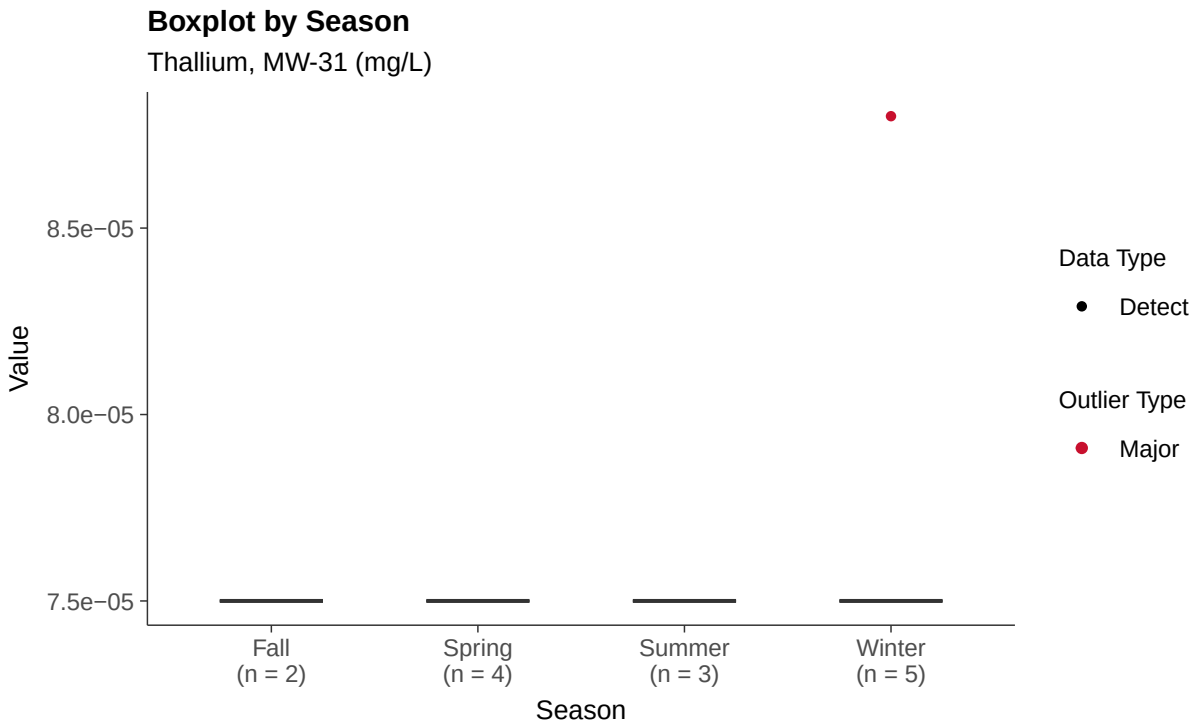
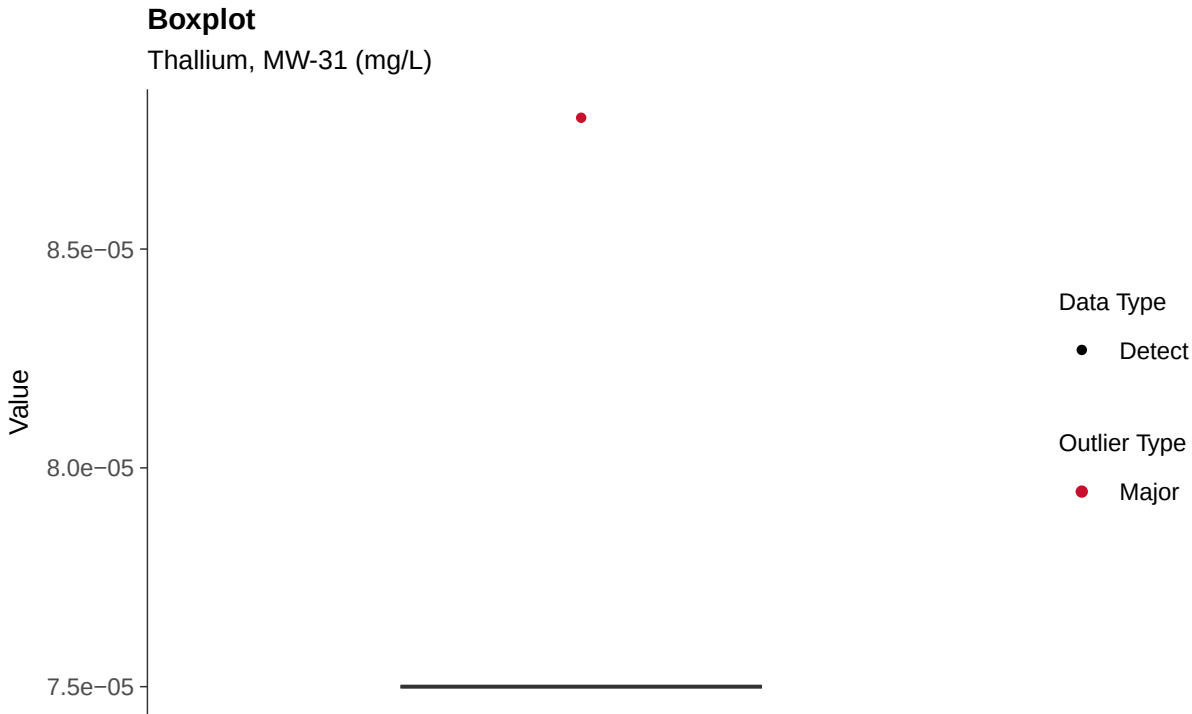


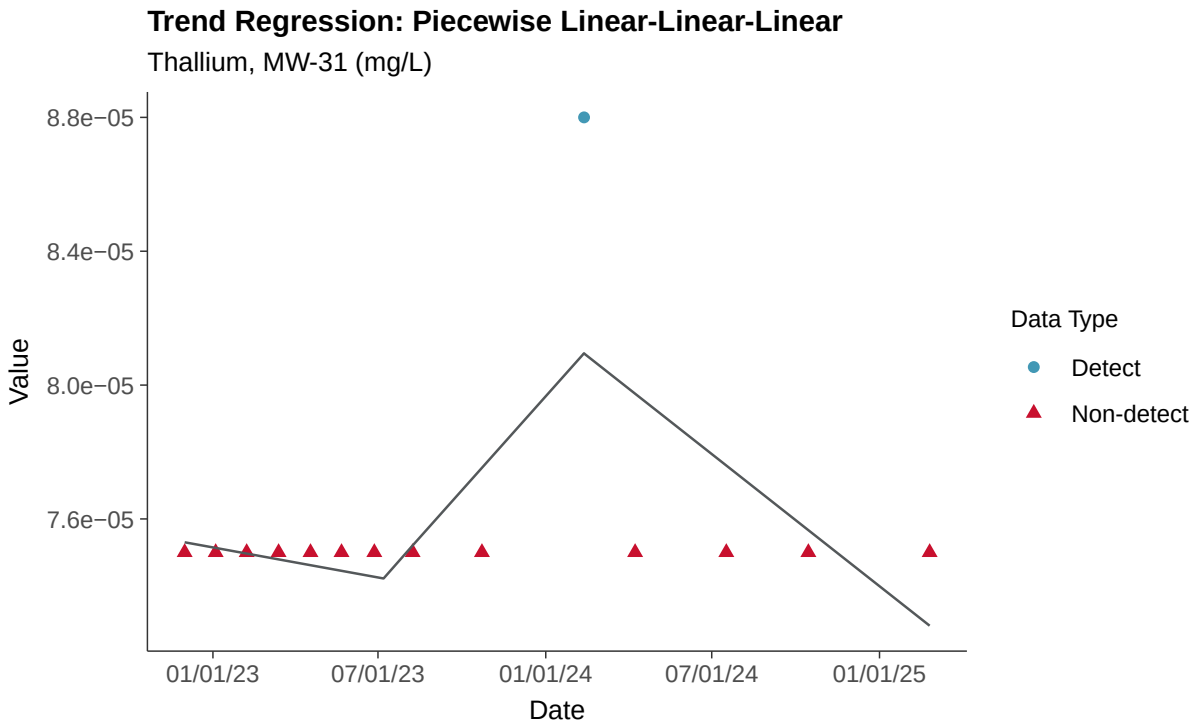
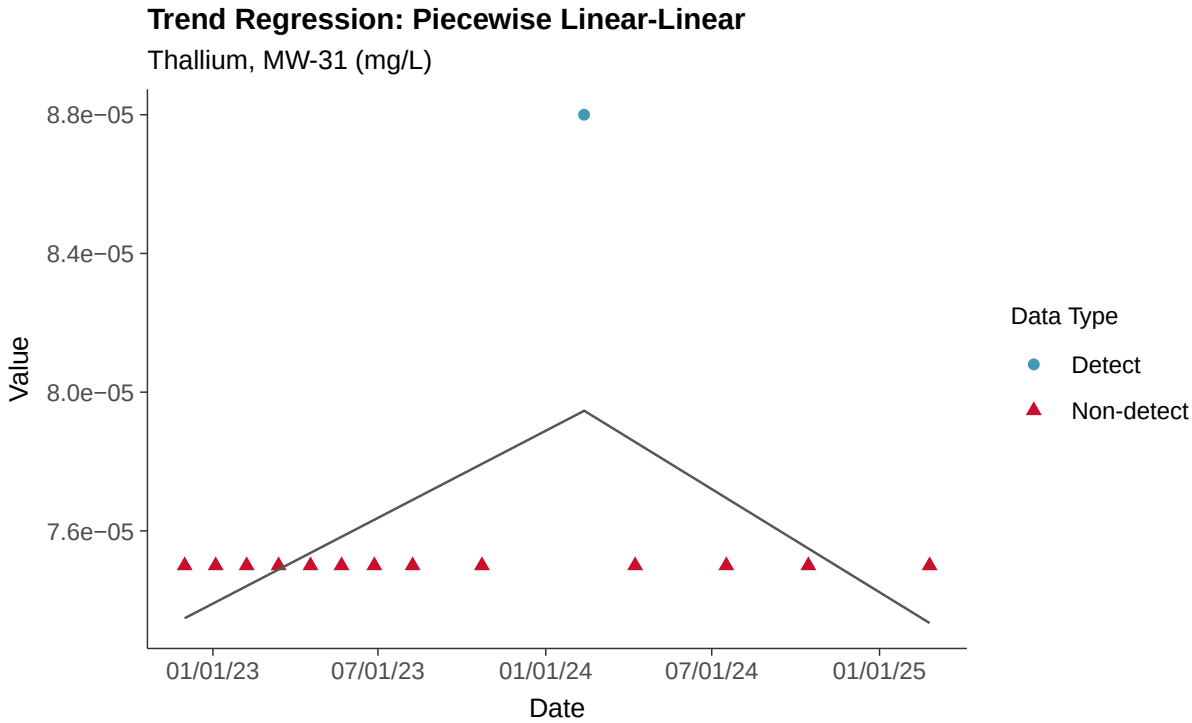


Appendix IV: Thallium, MW-31

ID: 41_1_4_125



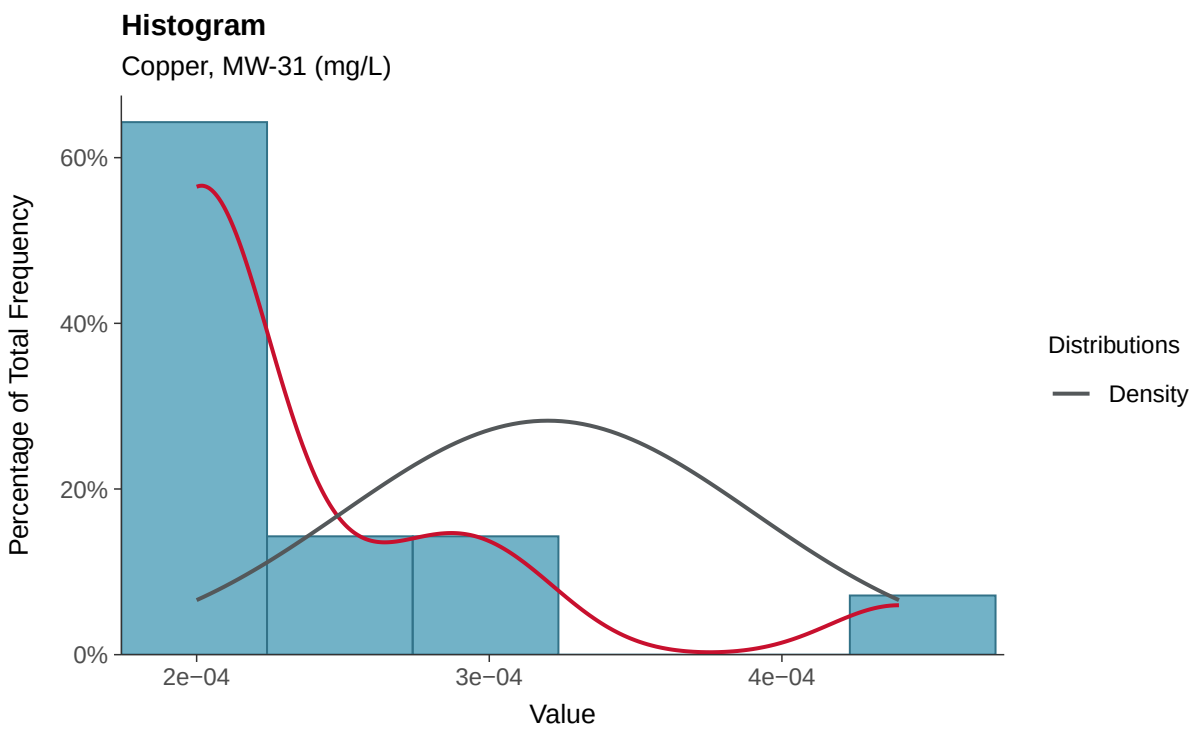
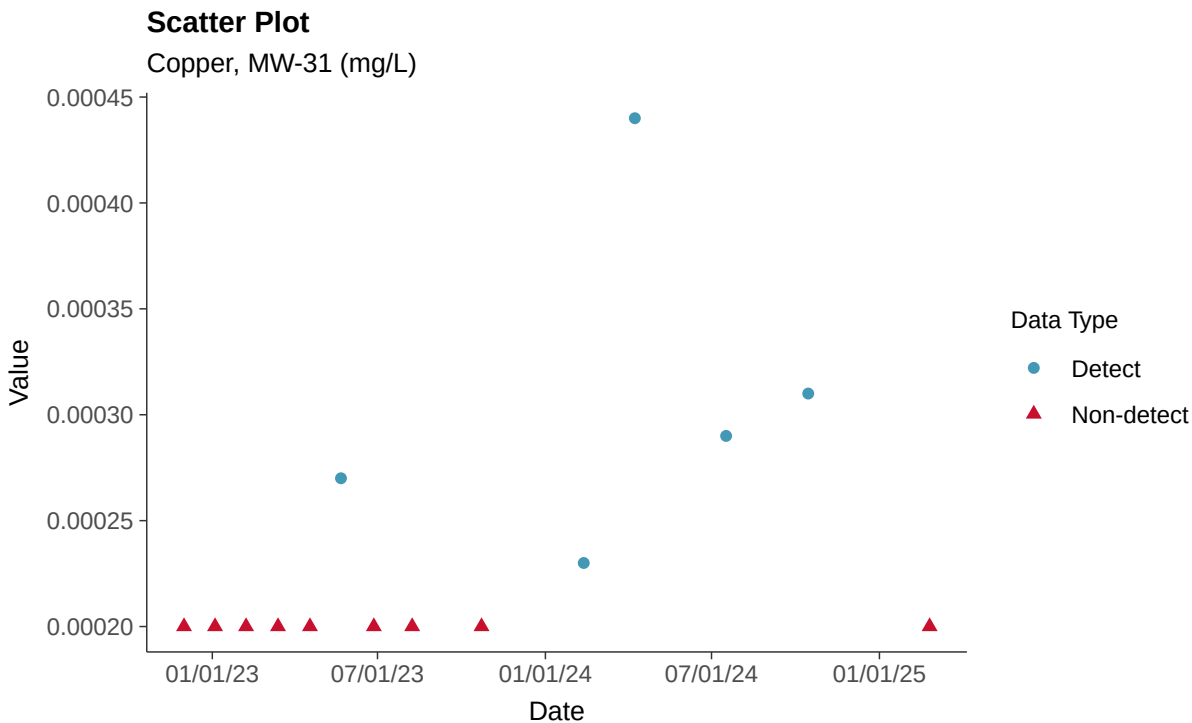


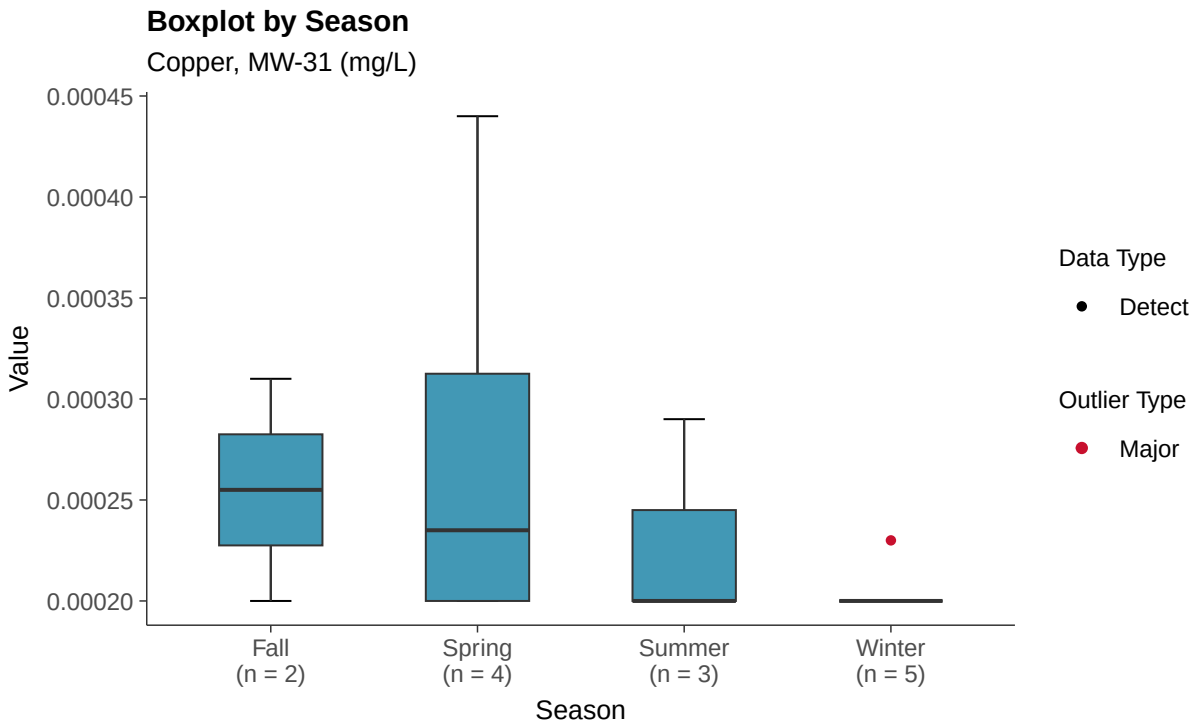
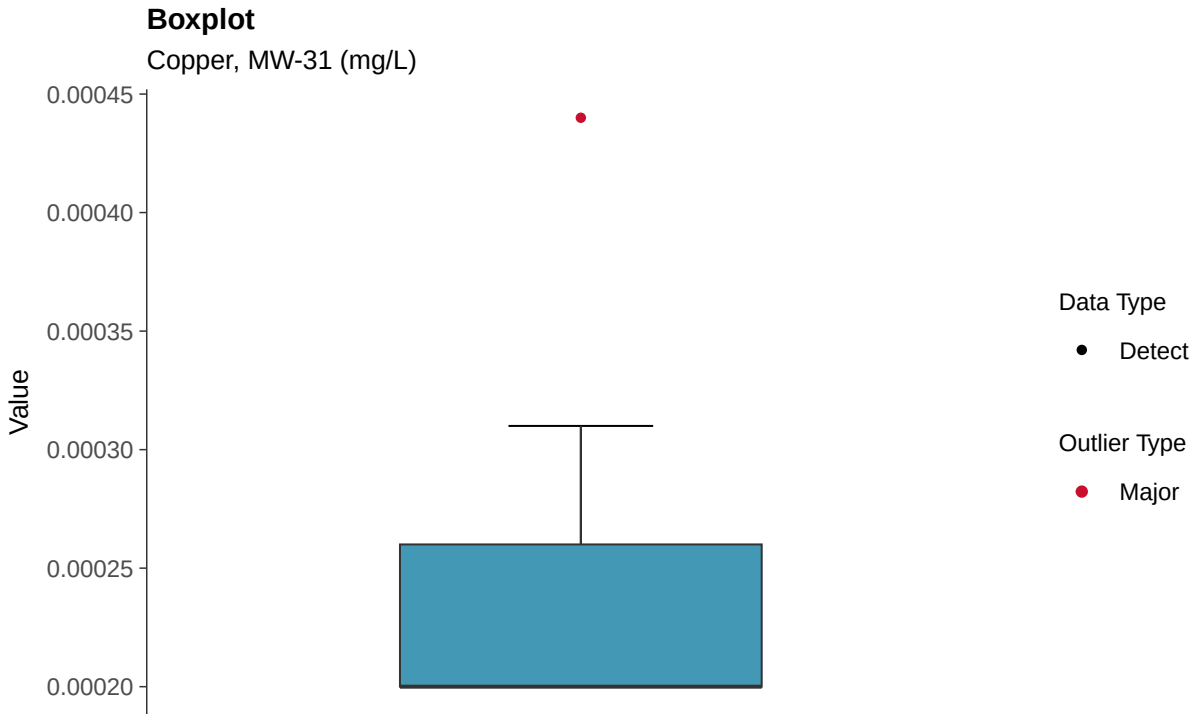




Part 115: Copper, MW-31

ID: 41_1_5_111

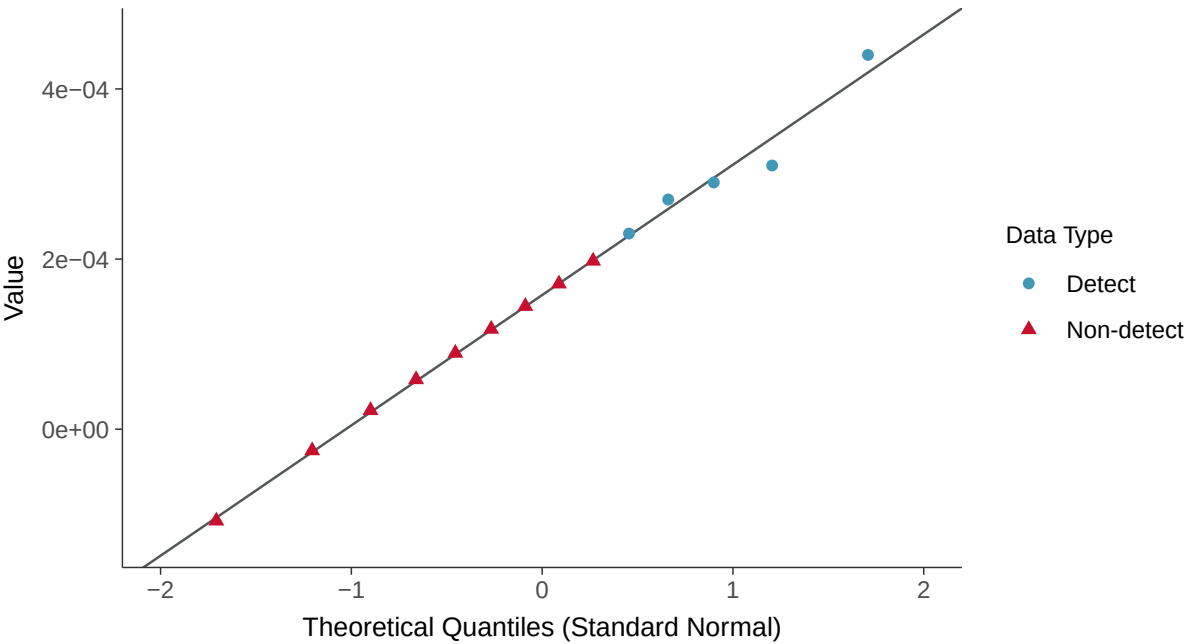






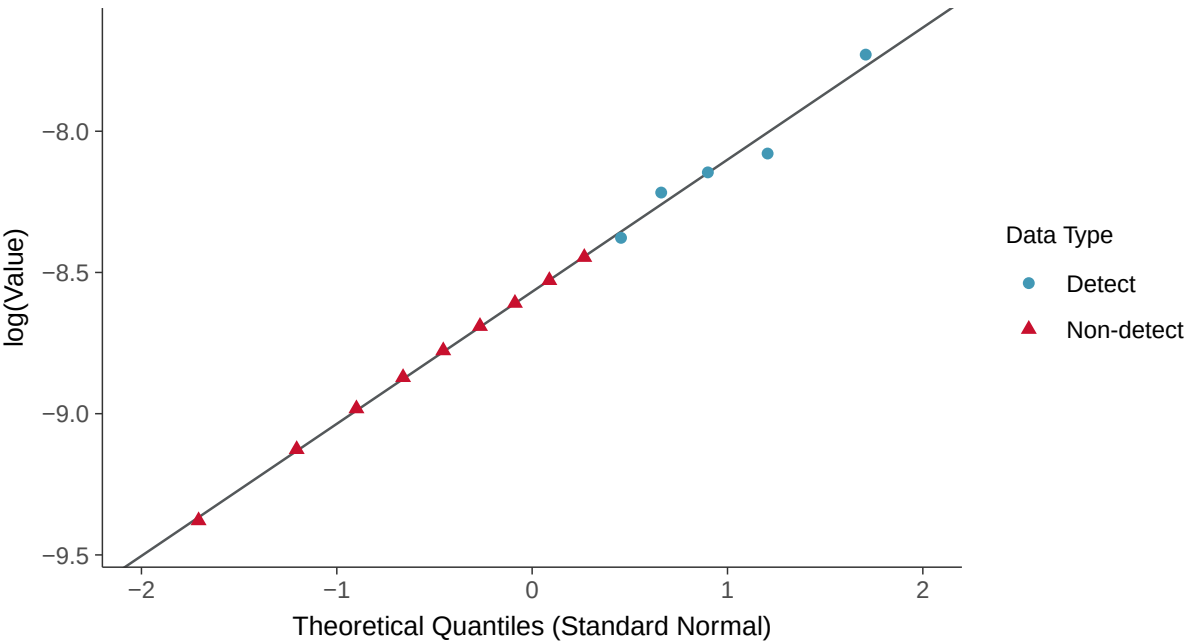
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-31 (mg/L)

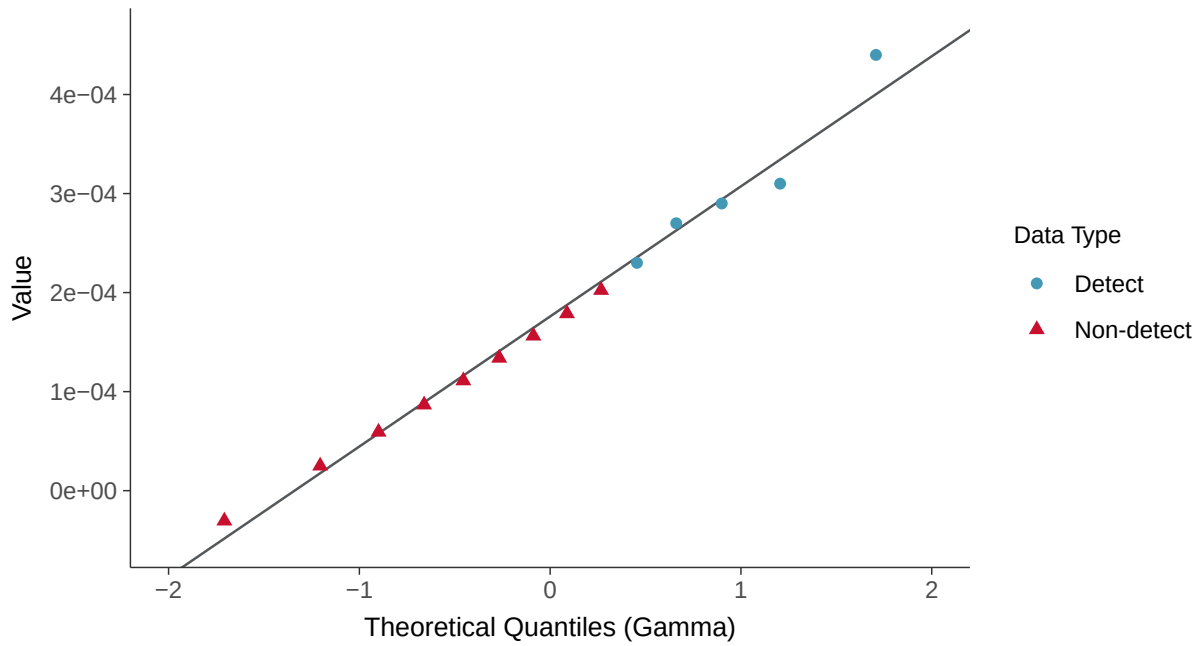


Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-31 (mg/L)

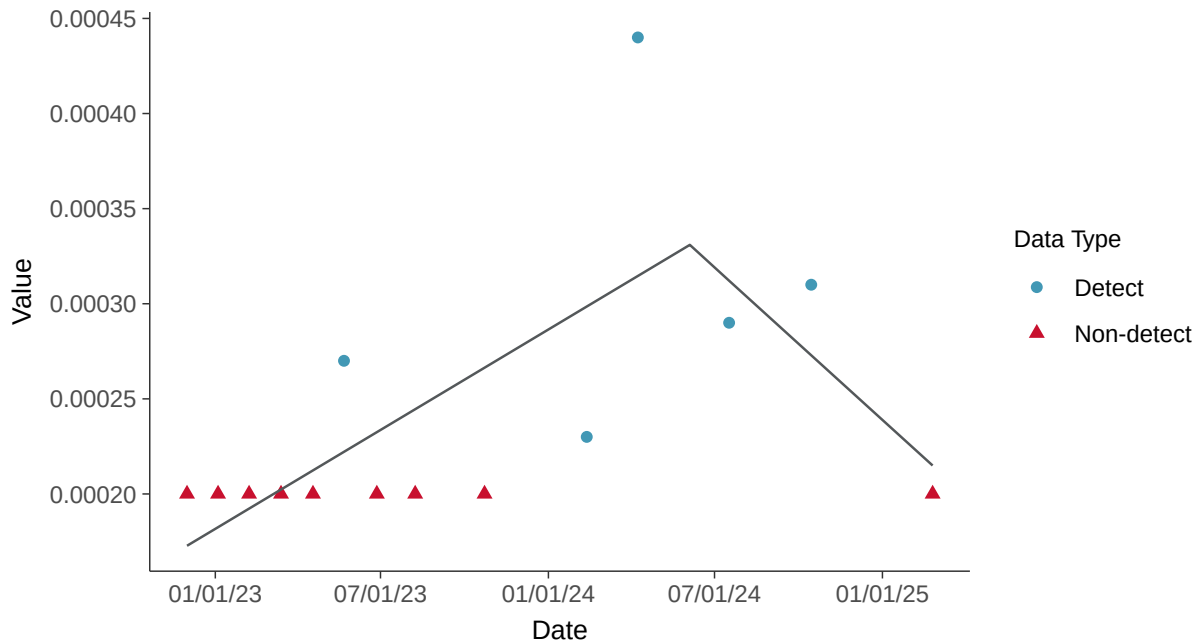


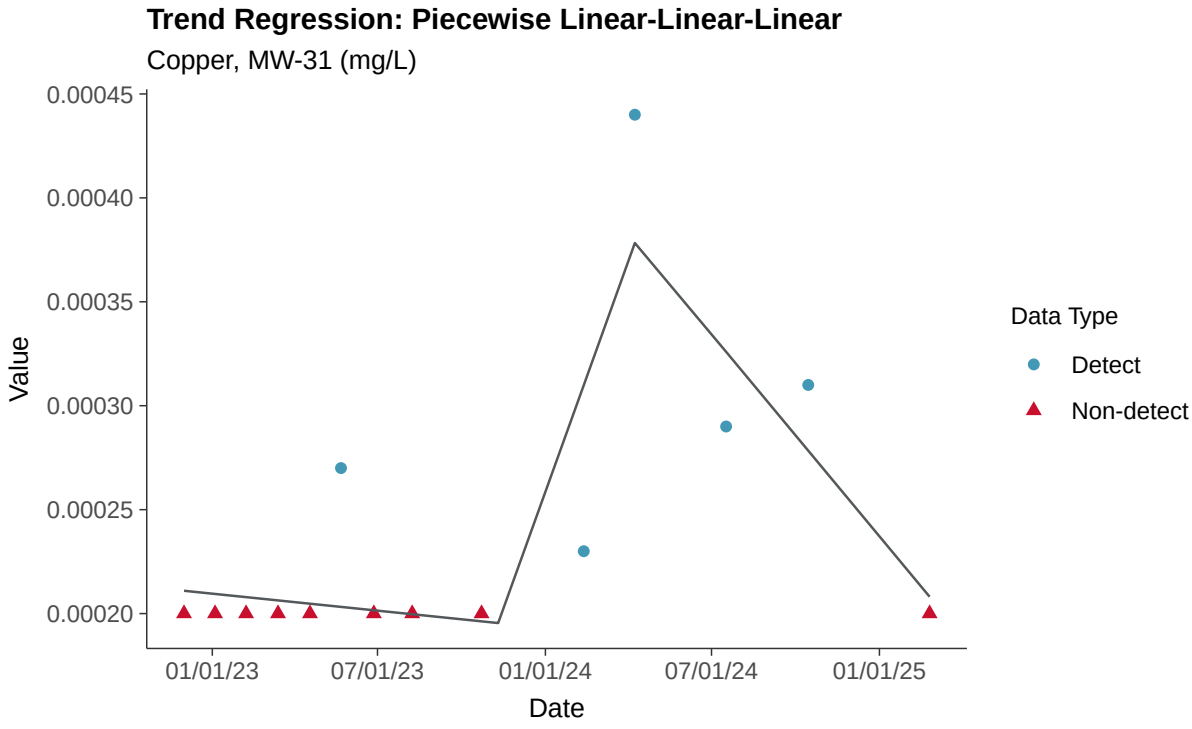
Copper, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-31 (mg/L)

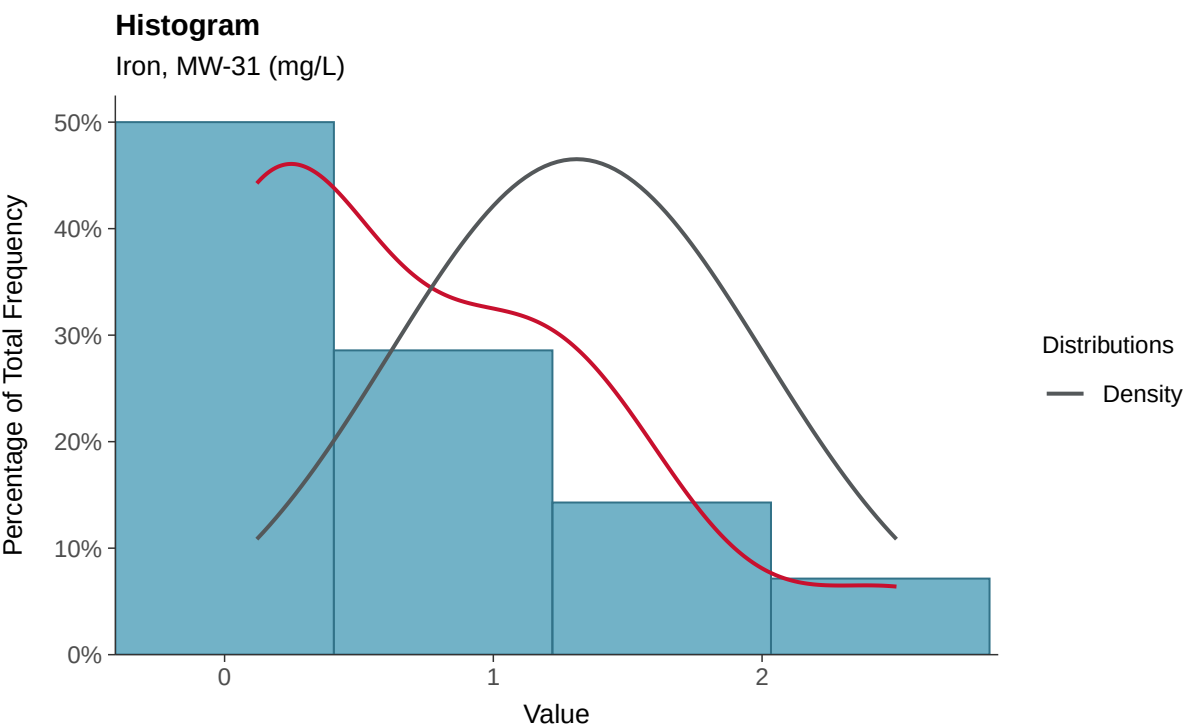
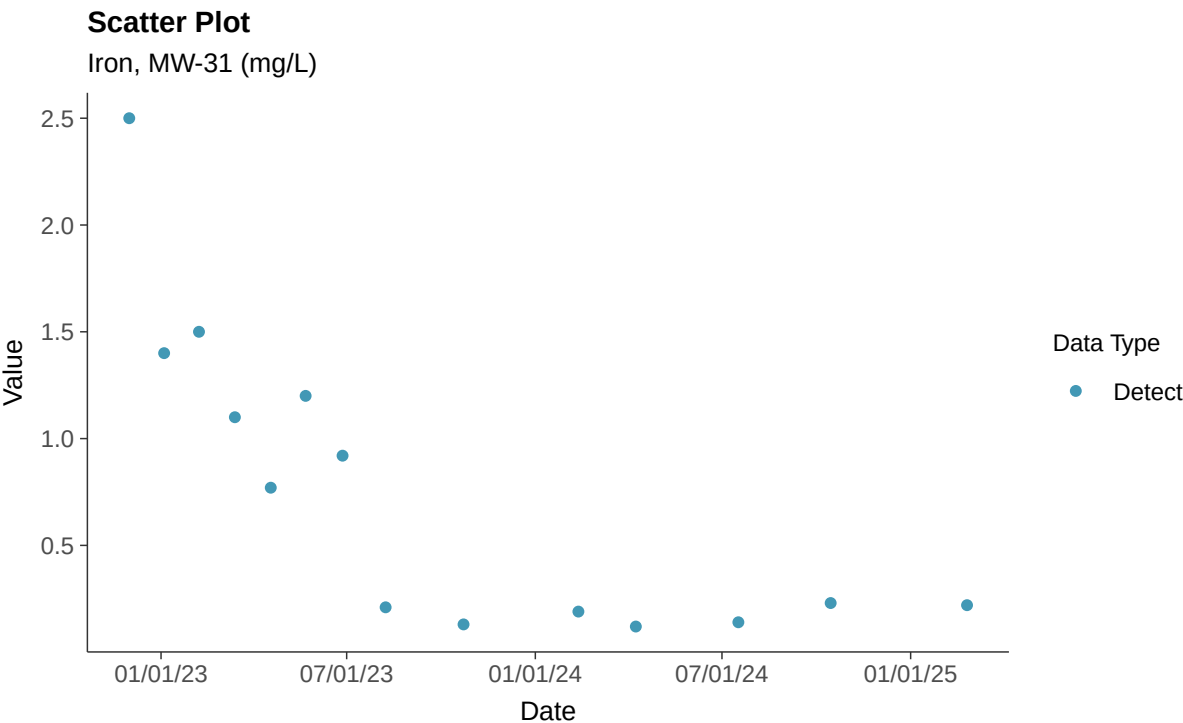


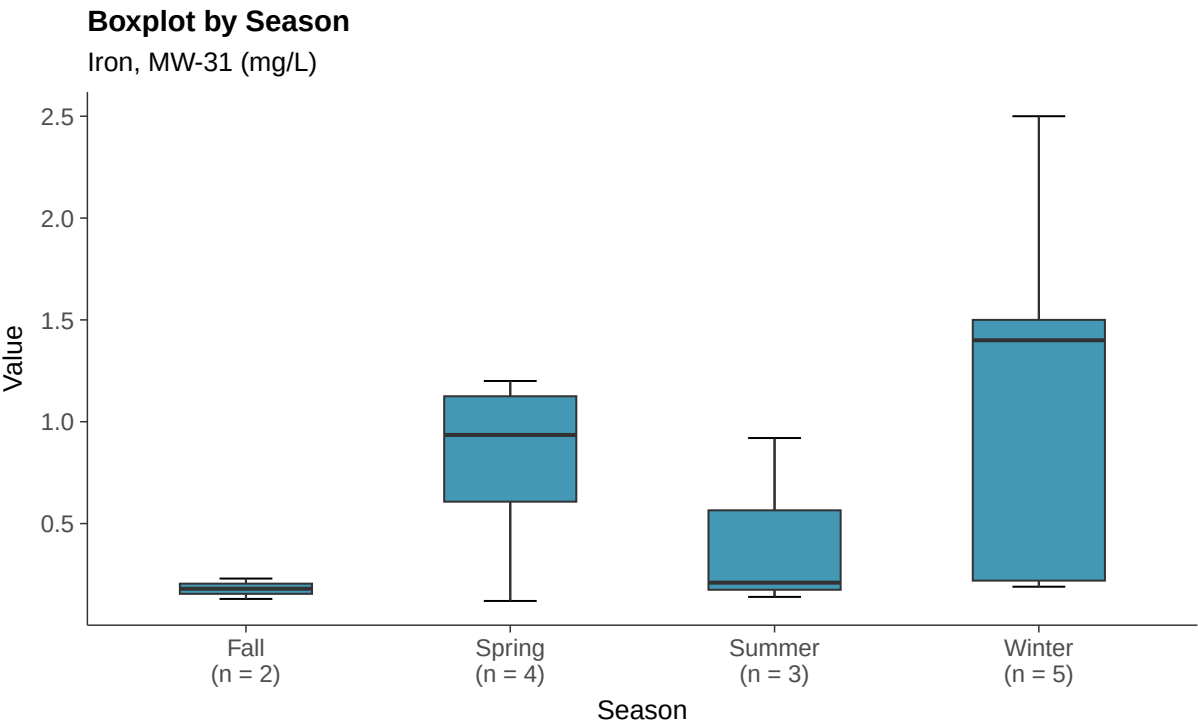
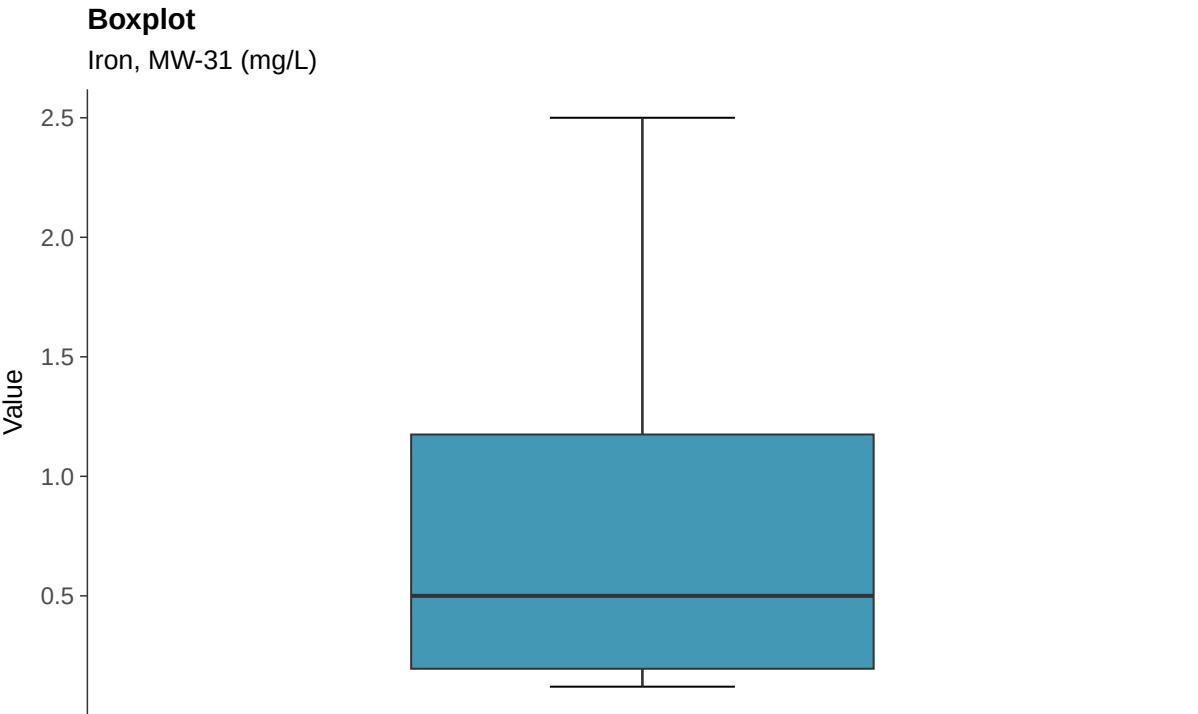


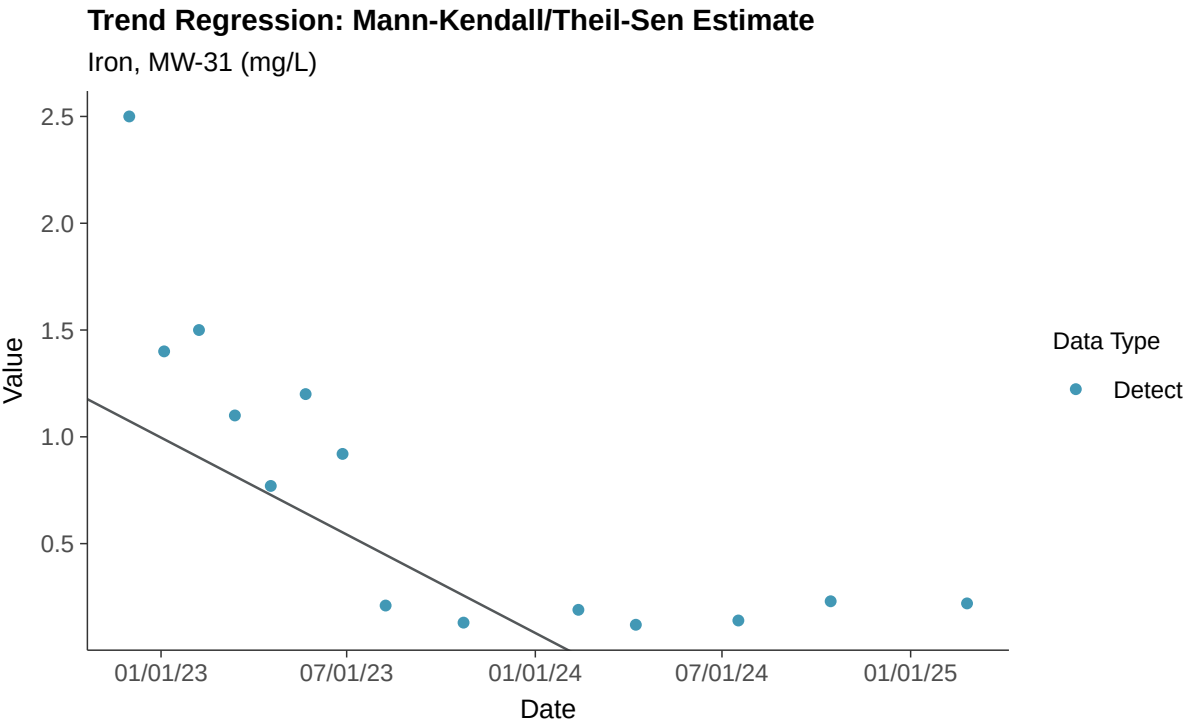
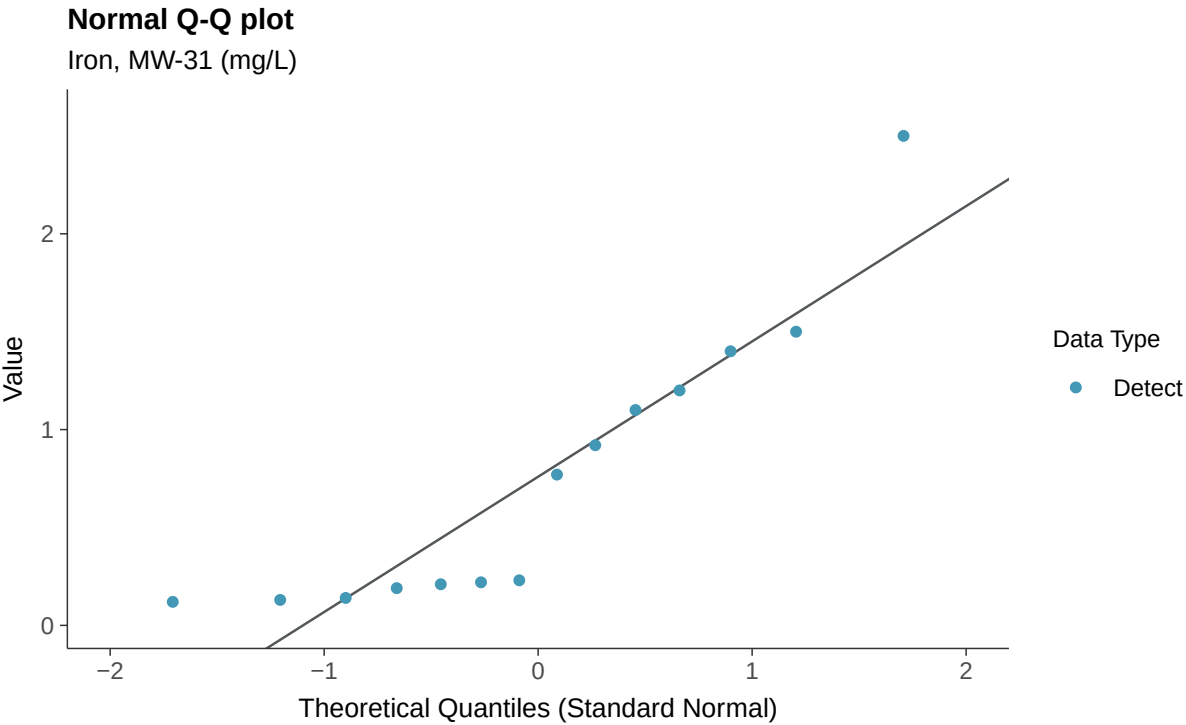


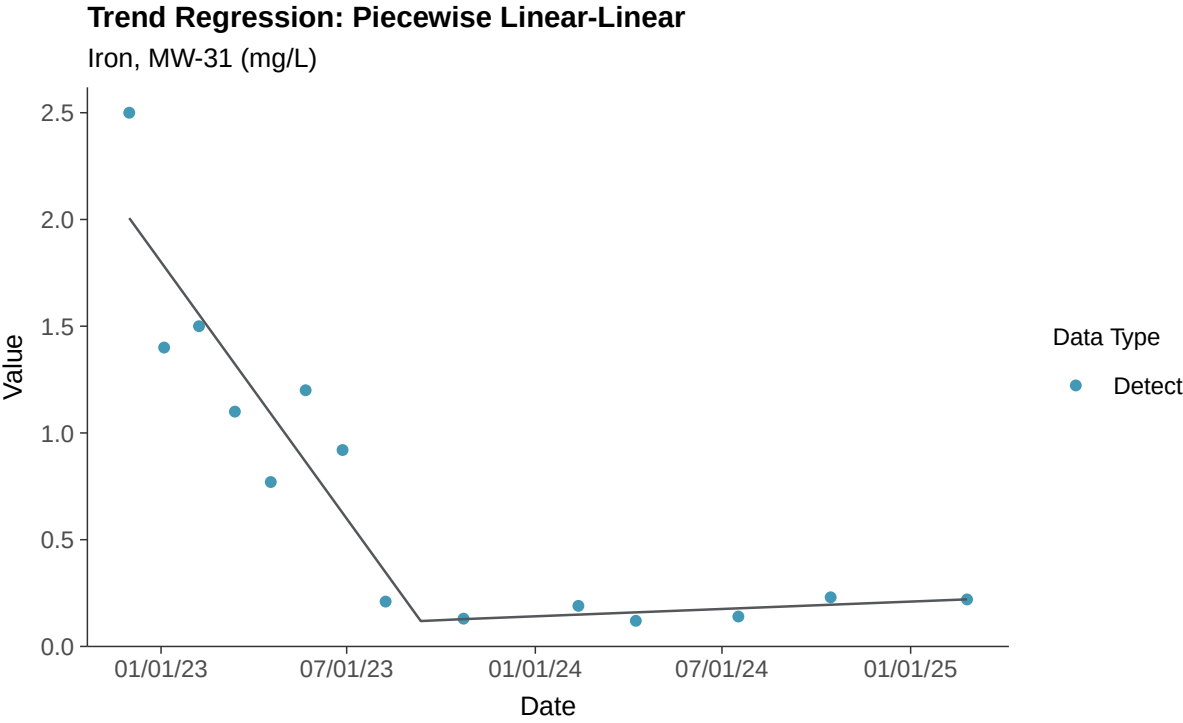
Part 115: Iron, MW-31

ID: 41_1_5_114





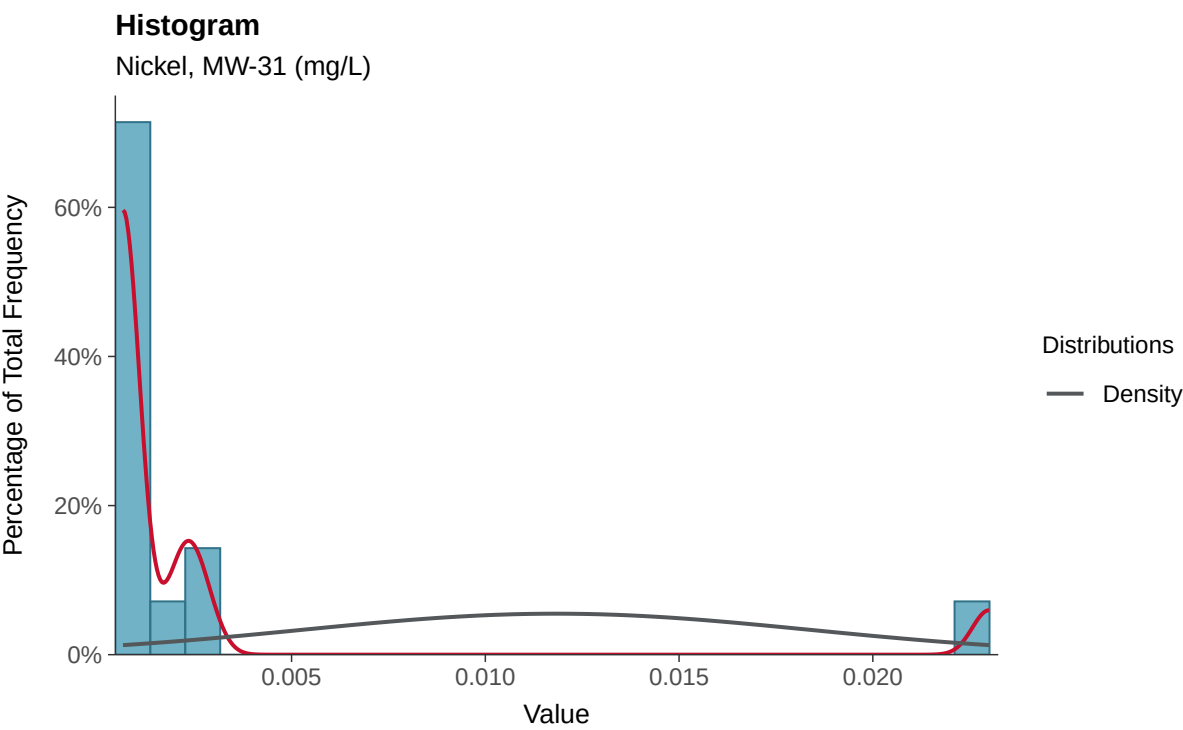
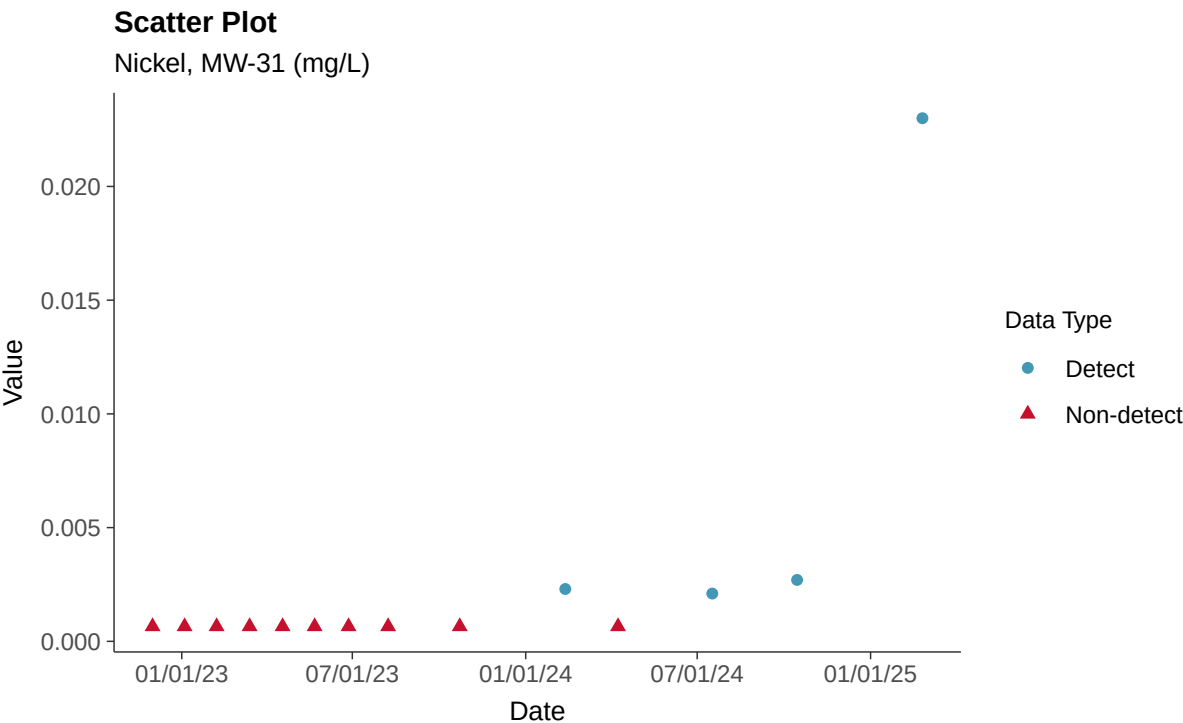


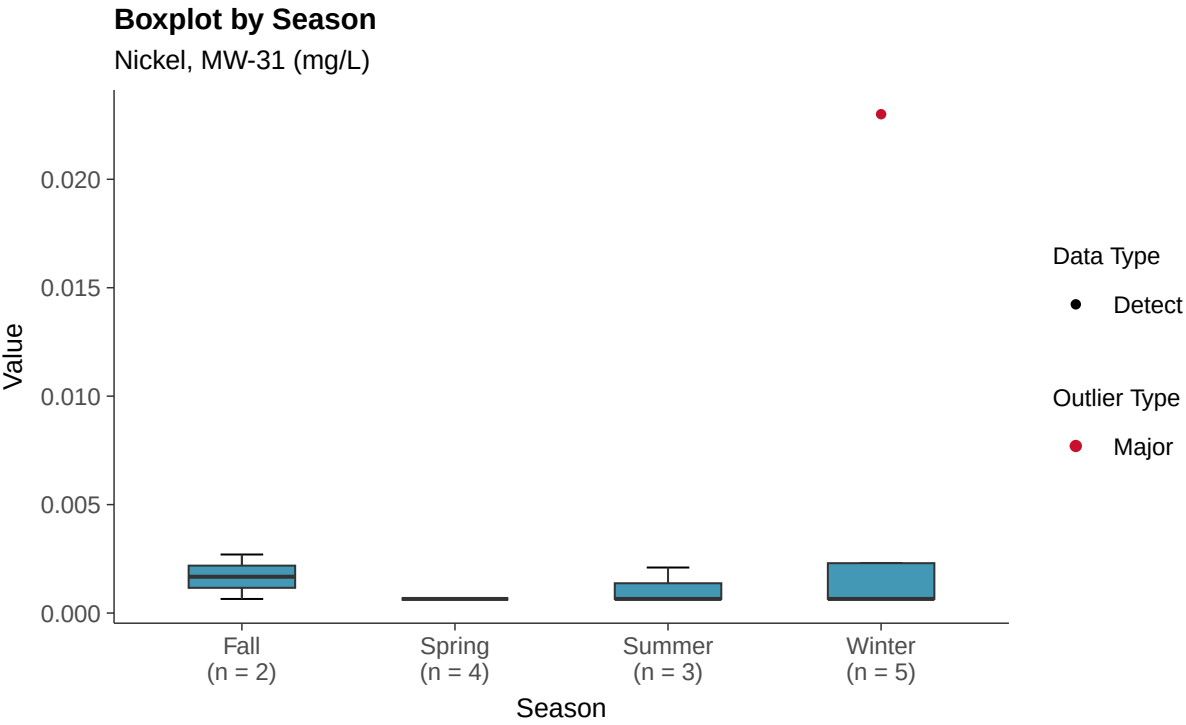
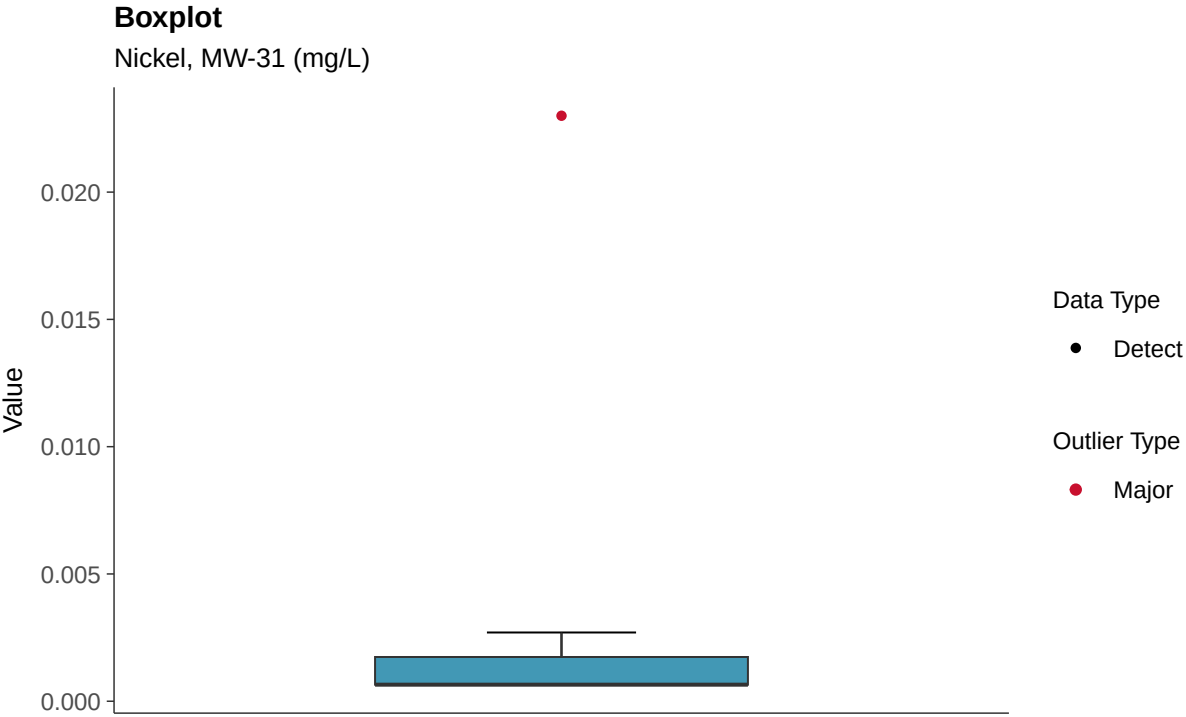


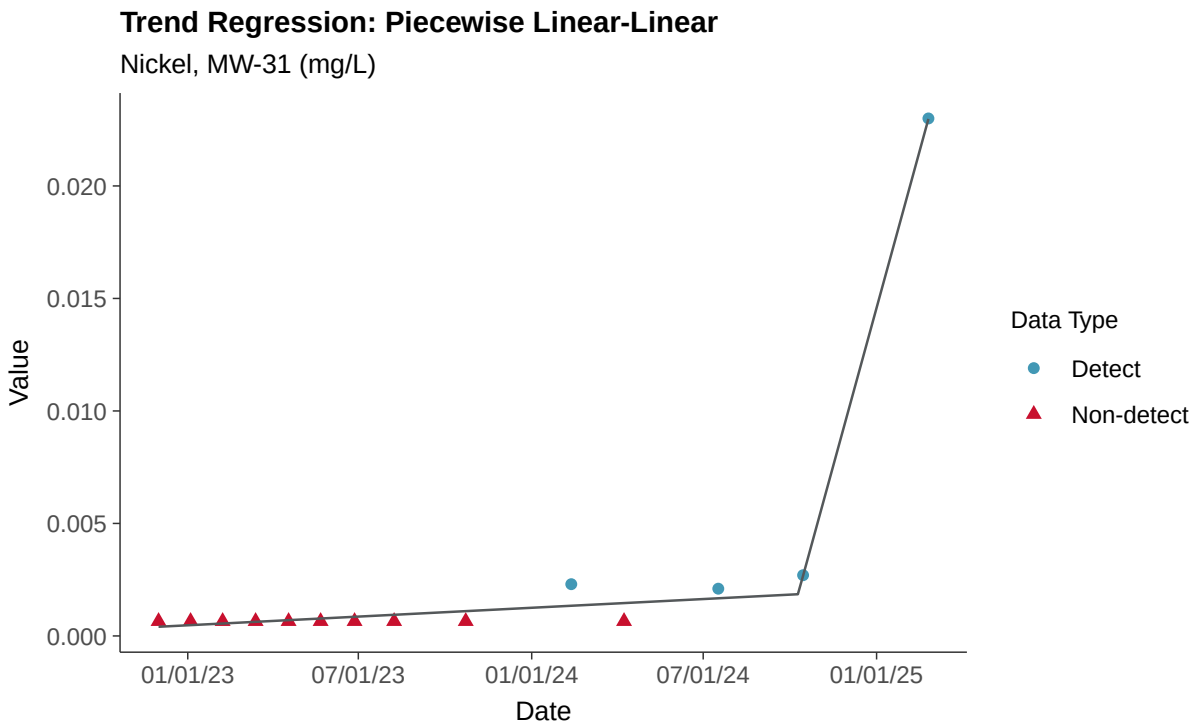
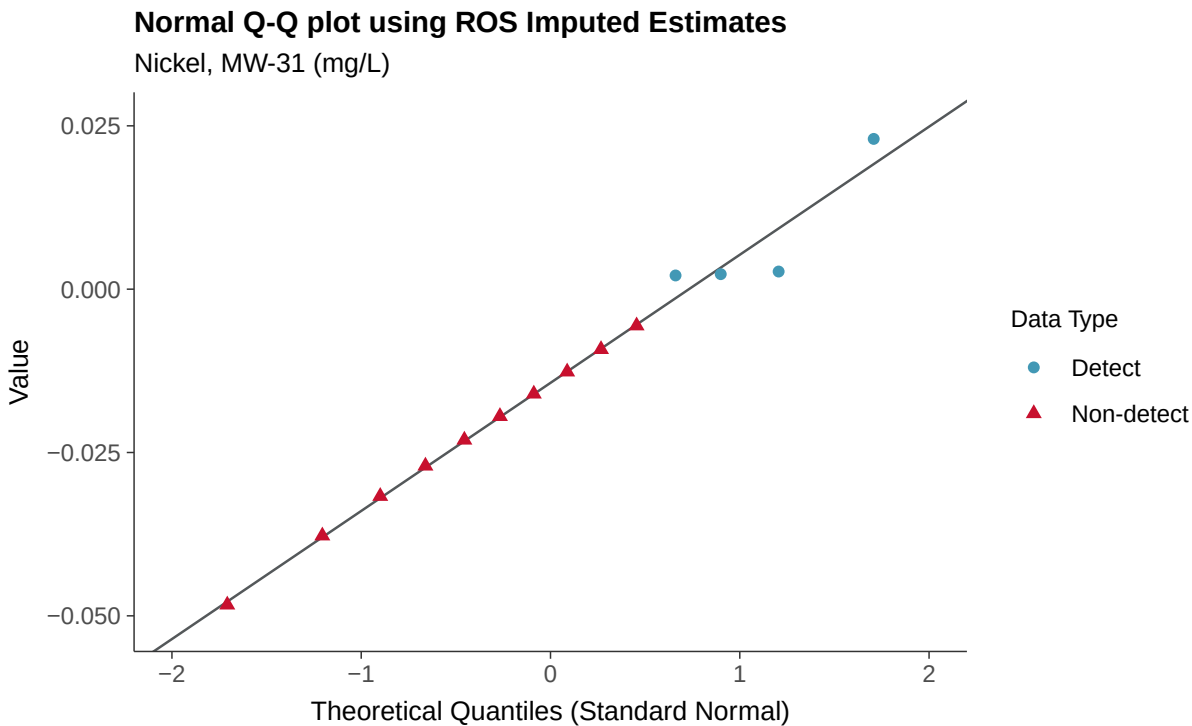


Part 115: Nickel, MW-31

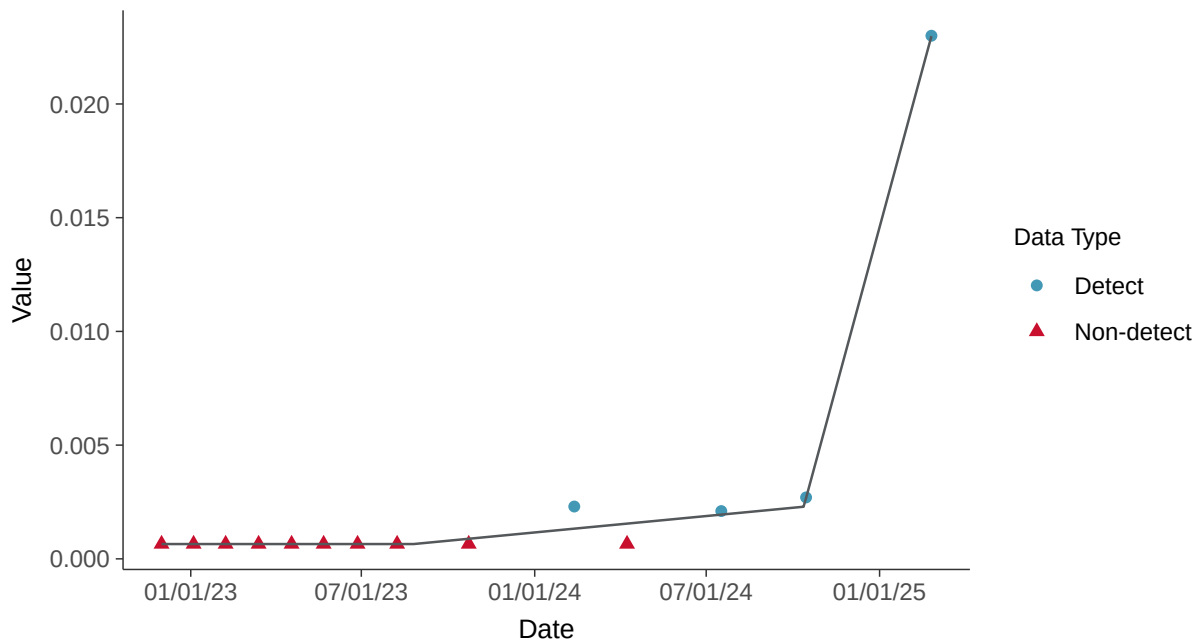
ID: 41_1_5_119







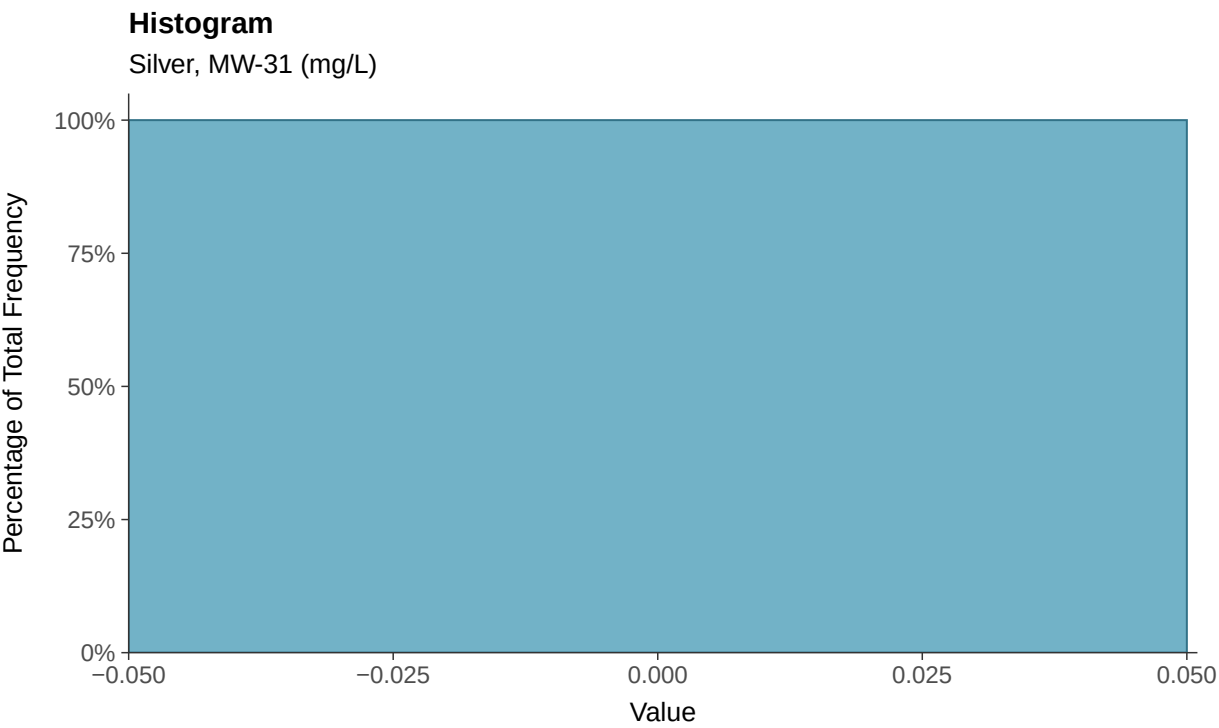
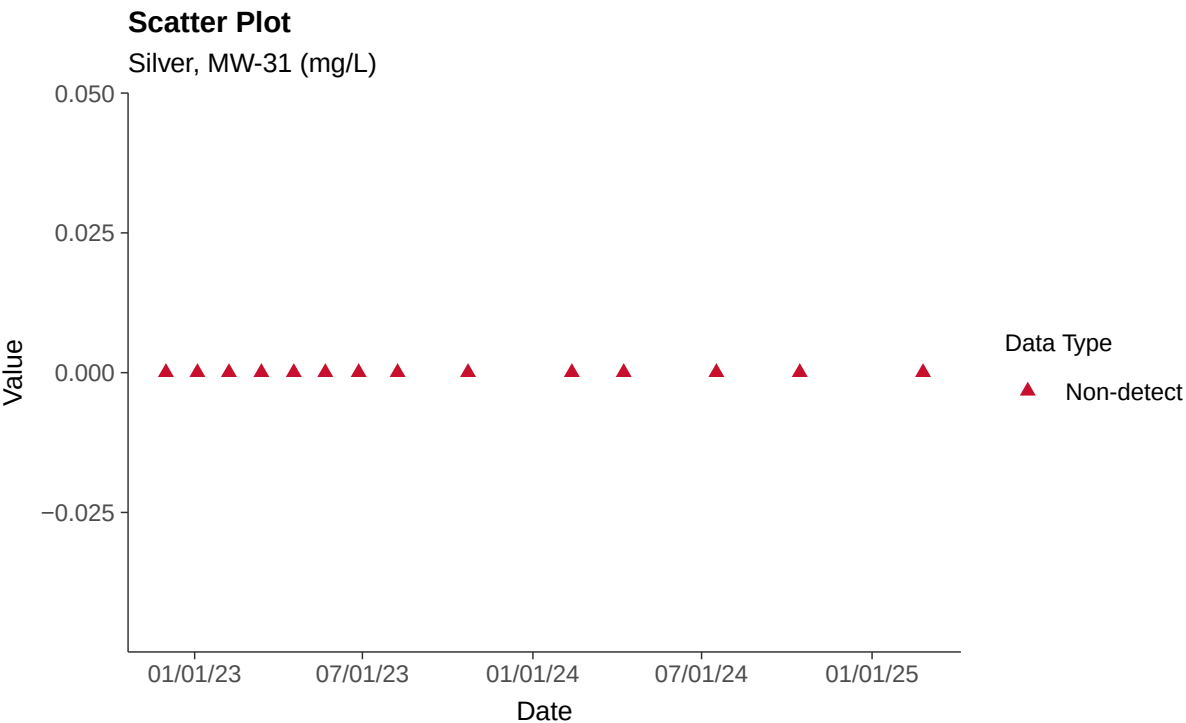
Nickel, MW-31 (mg/L)

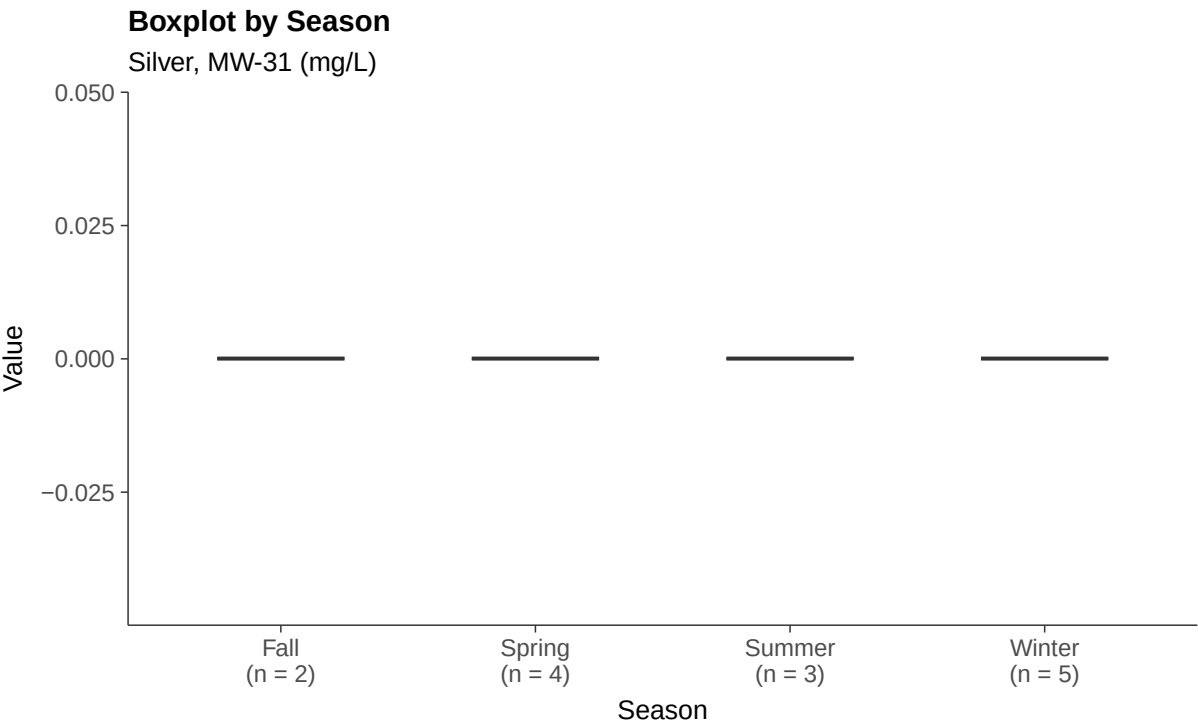
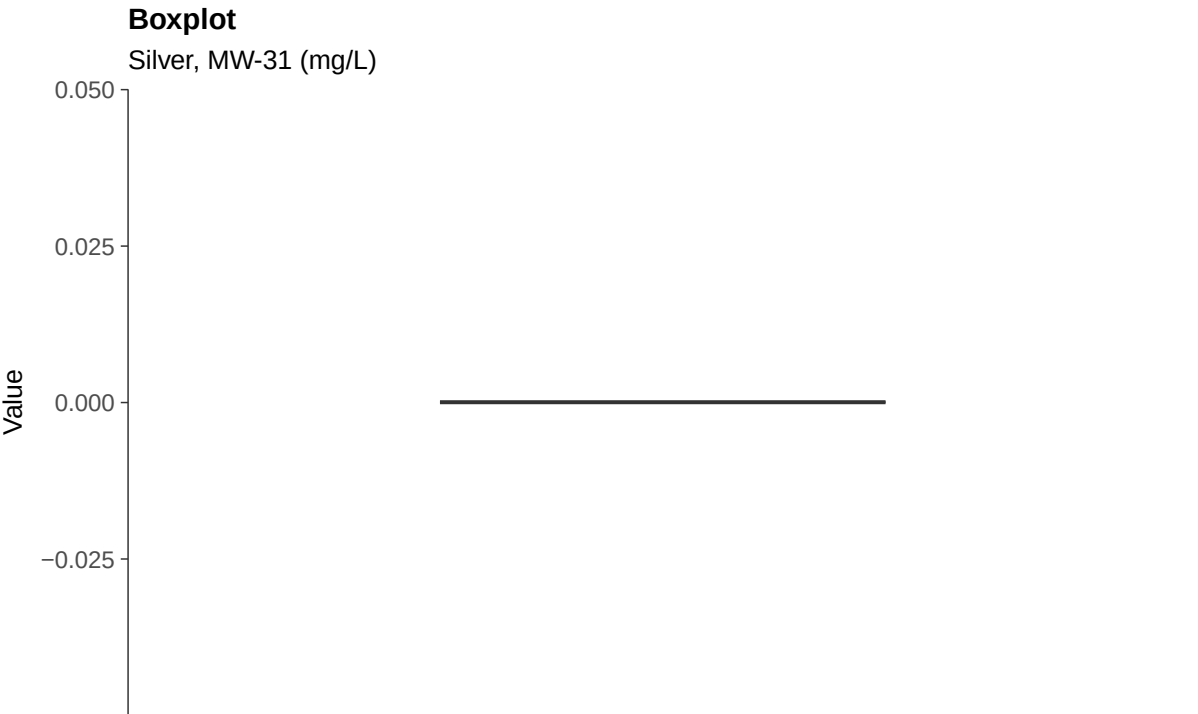




Part 115: Silver, MW-31

ID: 41_1_5_123

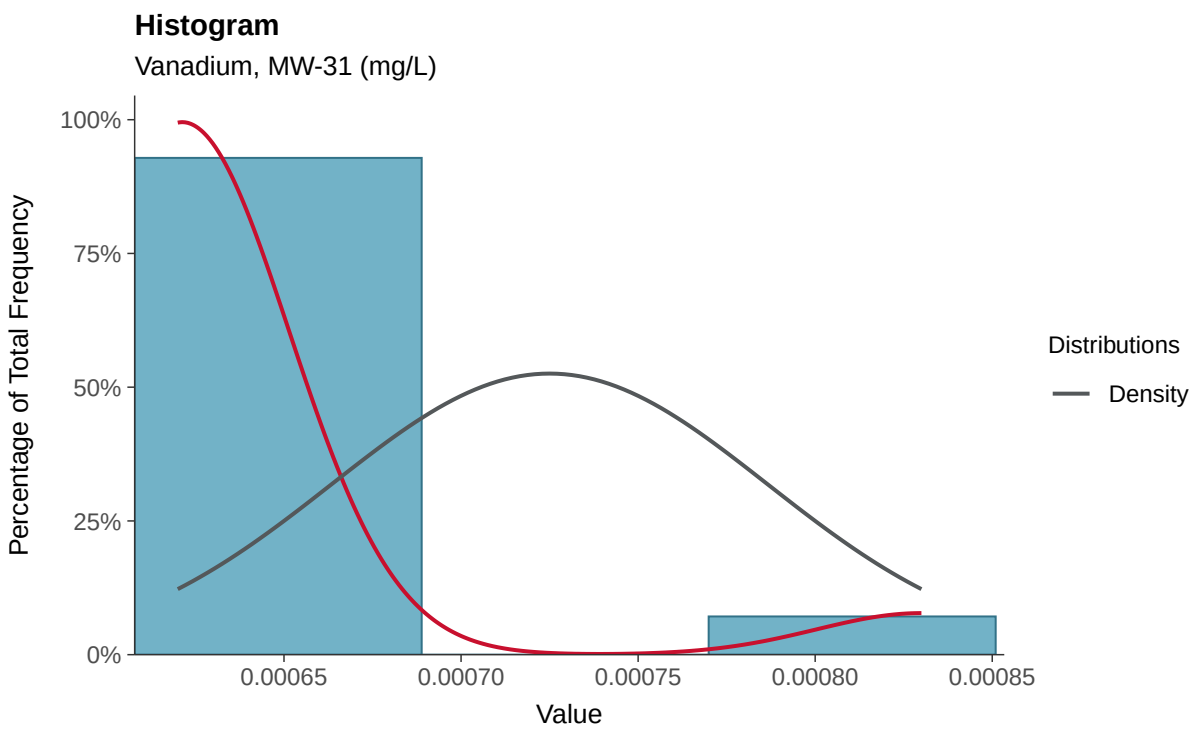
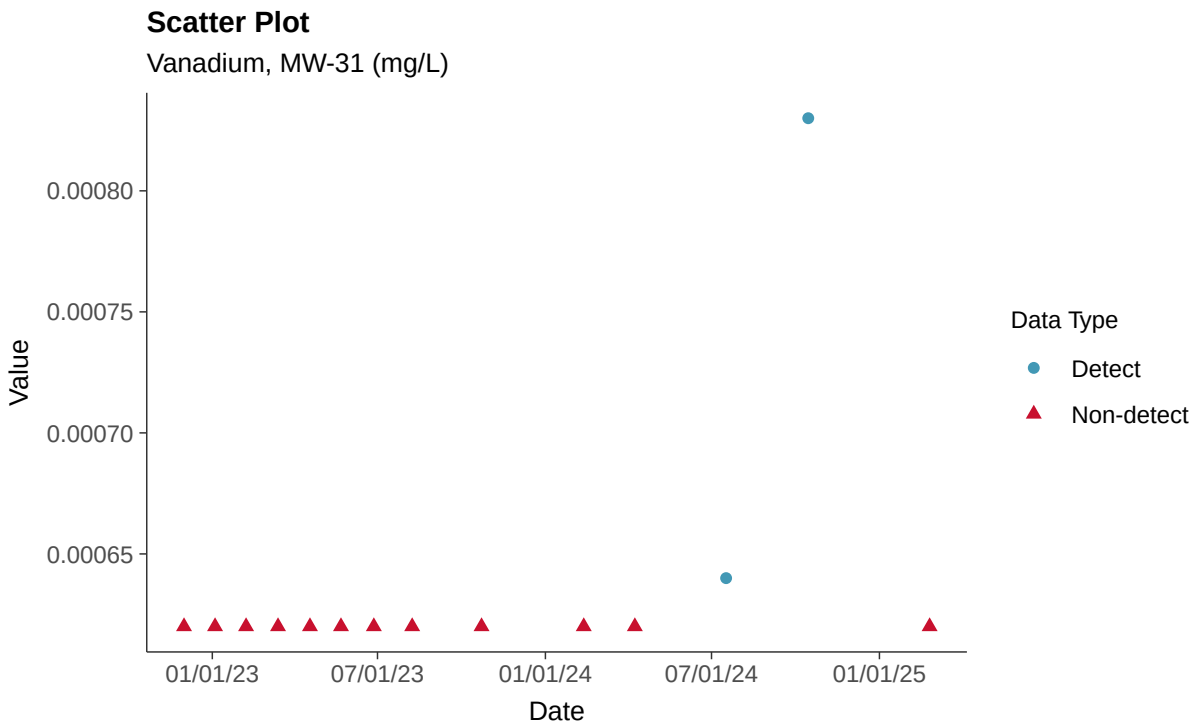


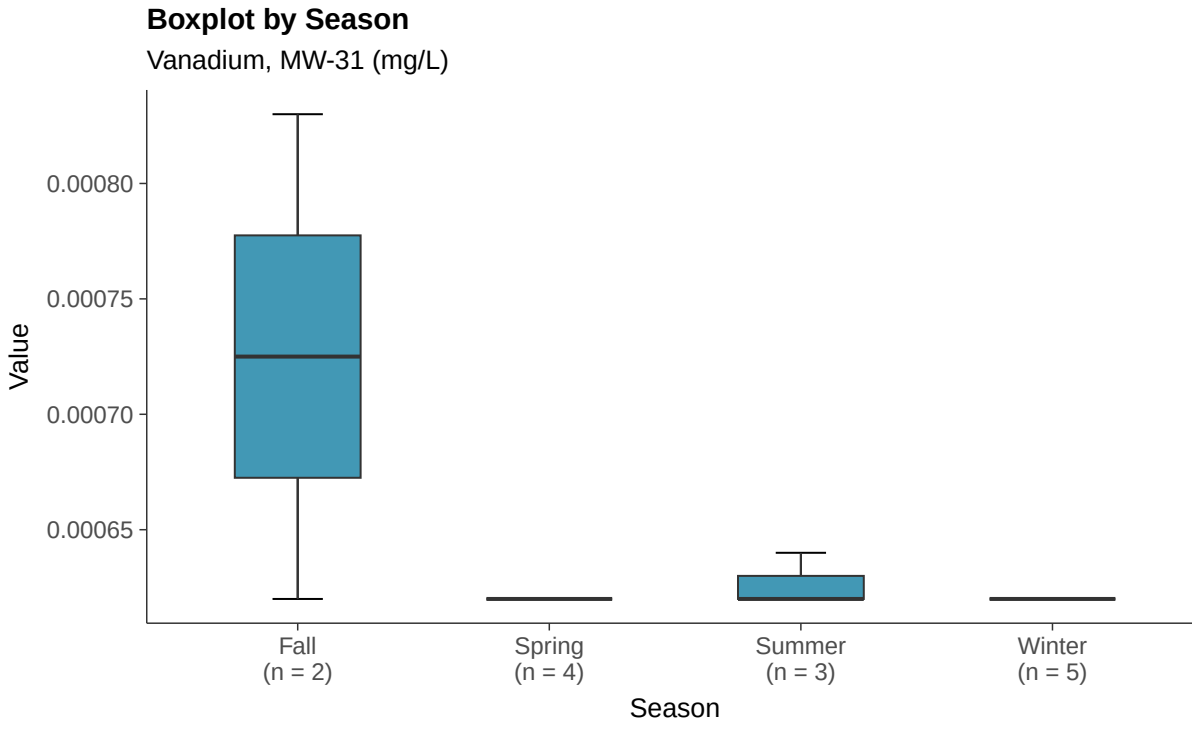
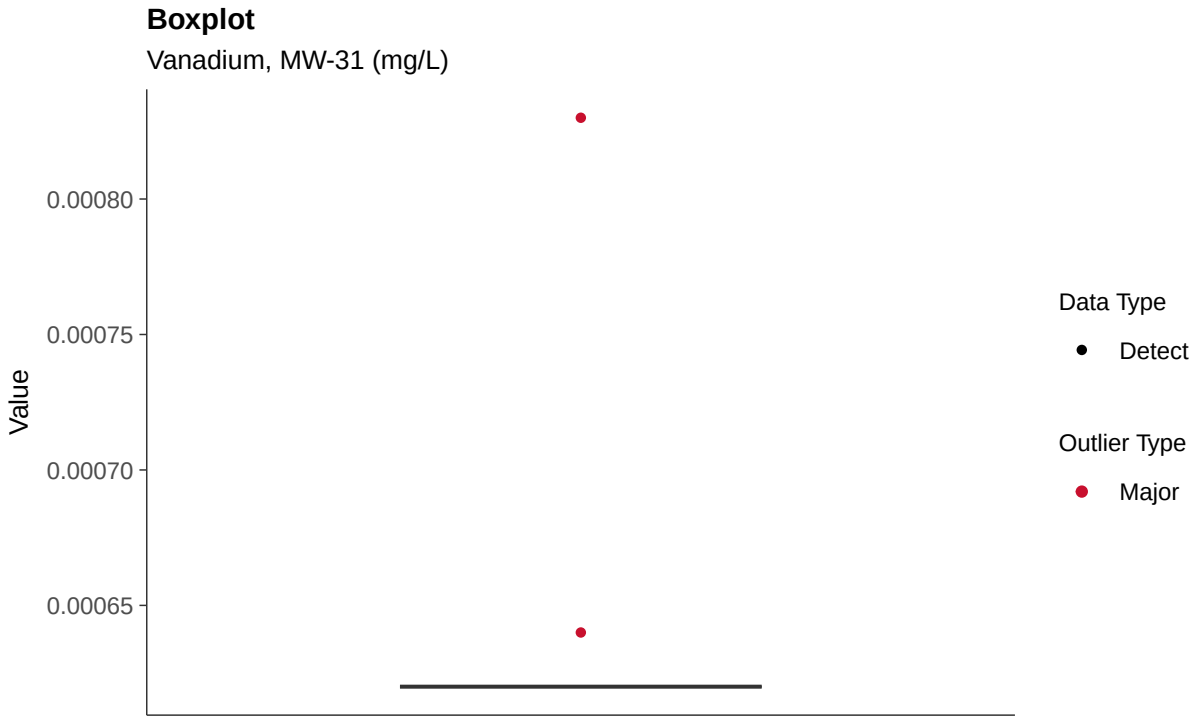


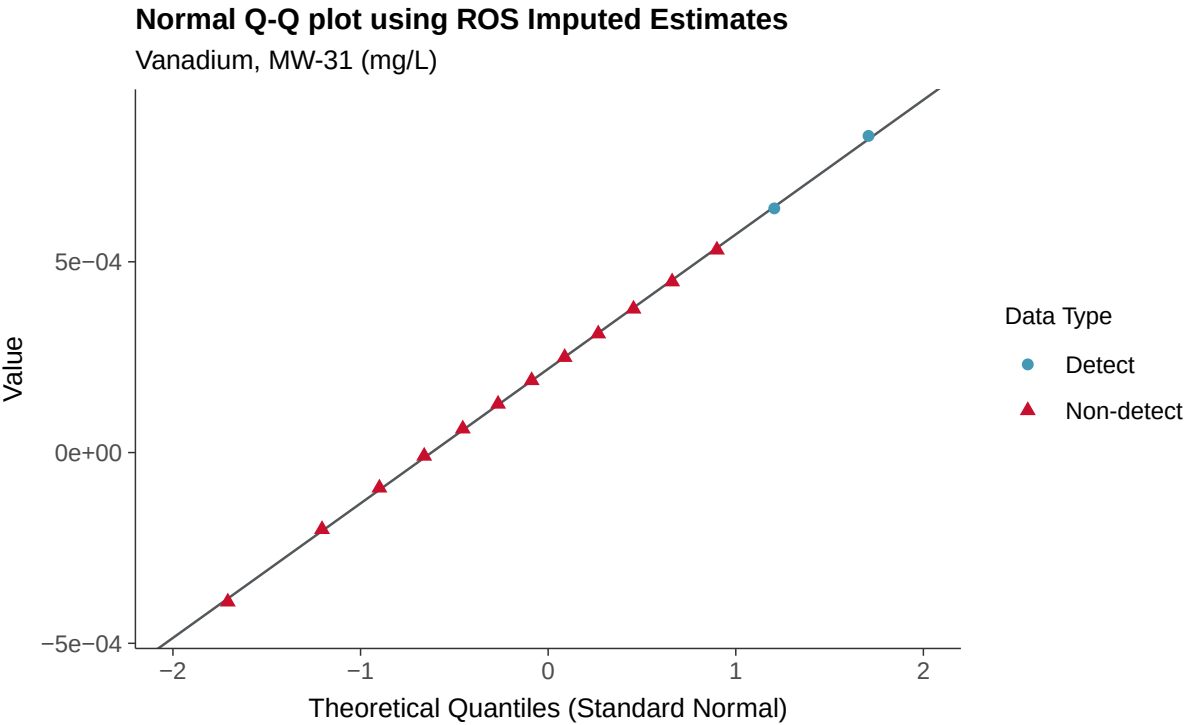


Part 115: Vanadium, MW-31

ID: 41_1_5_128



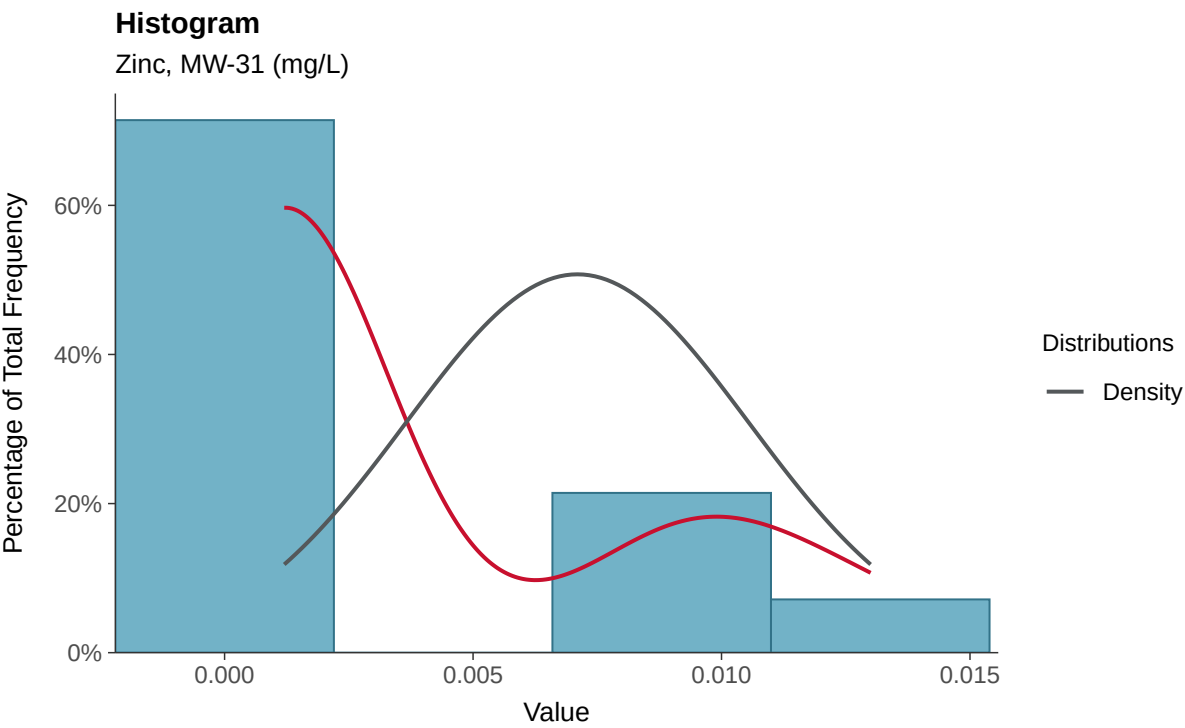
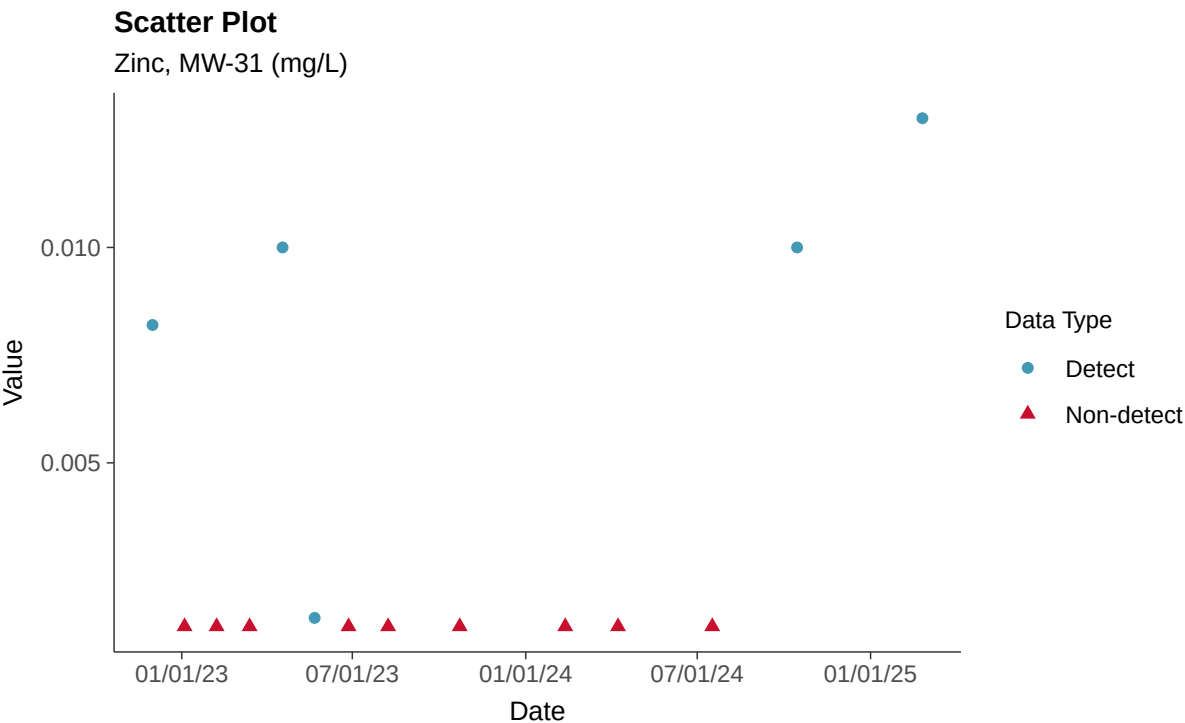


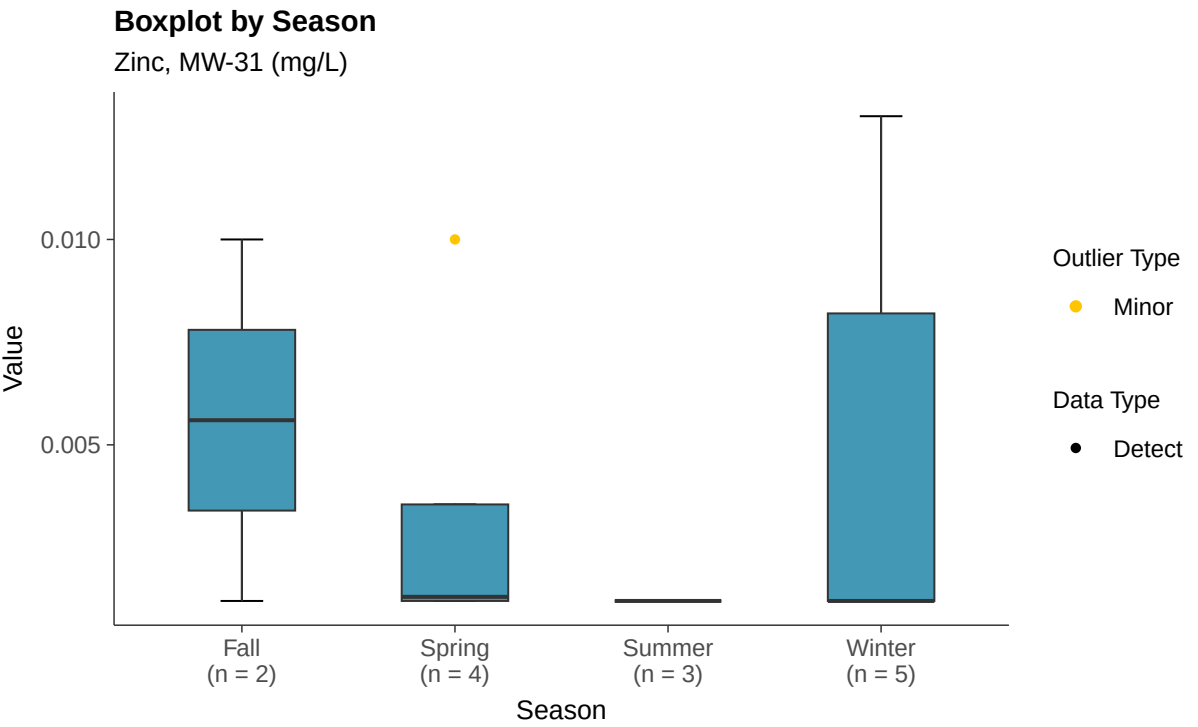
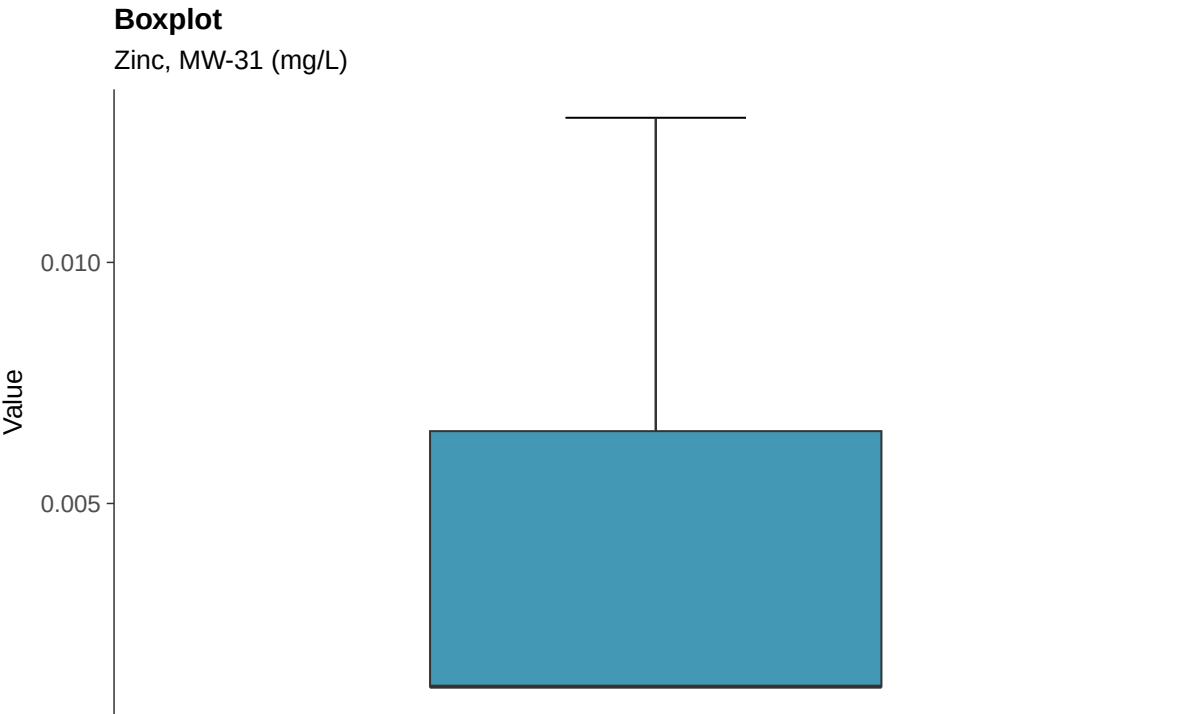


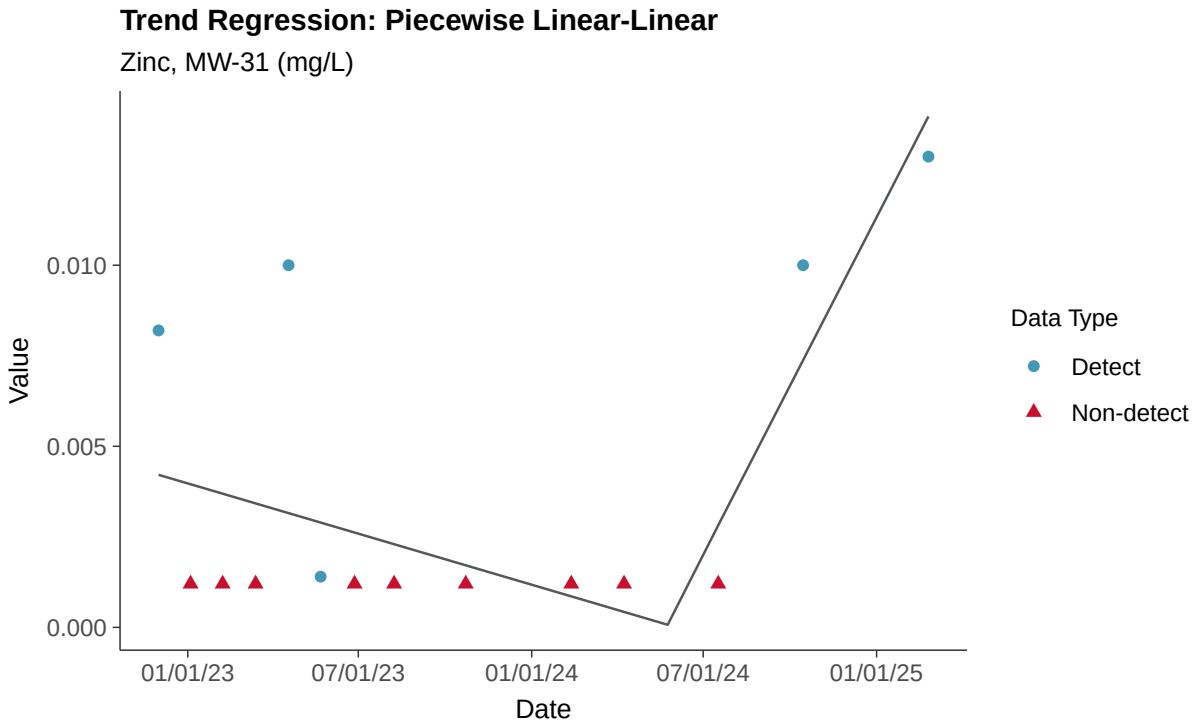
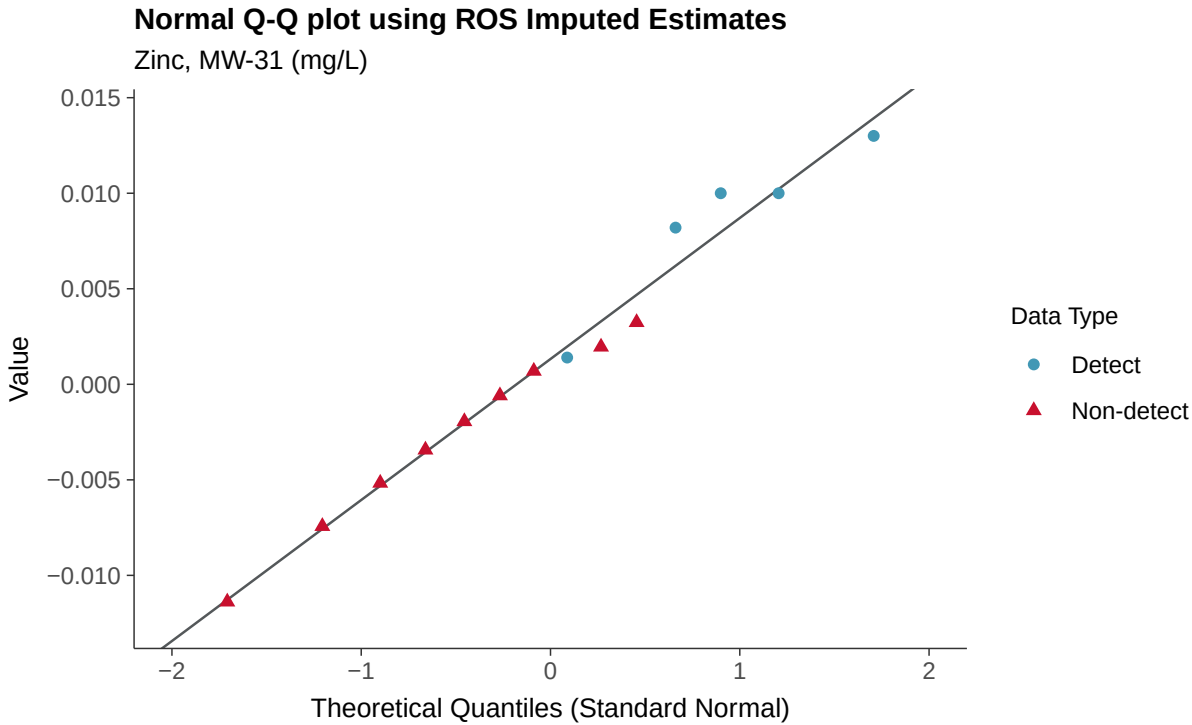


Part 115: Zinc, MW-31

ID: 41_1_5_129



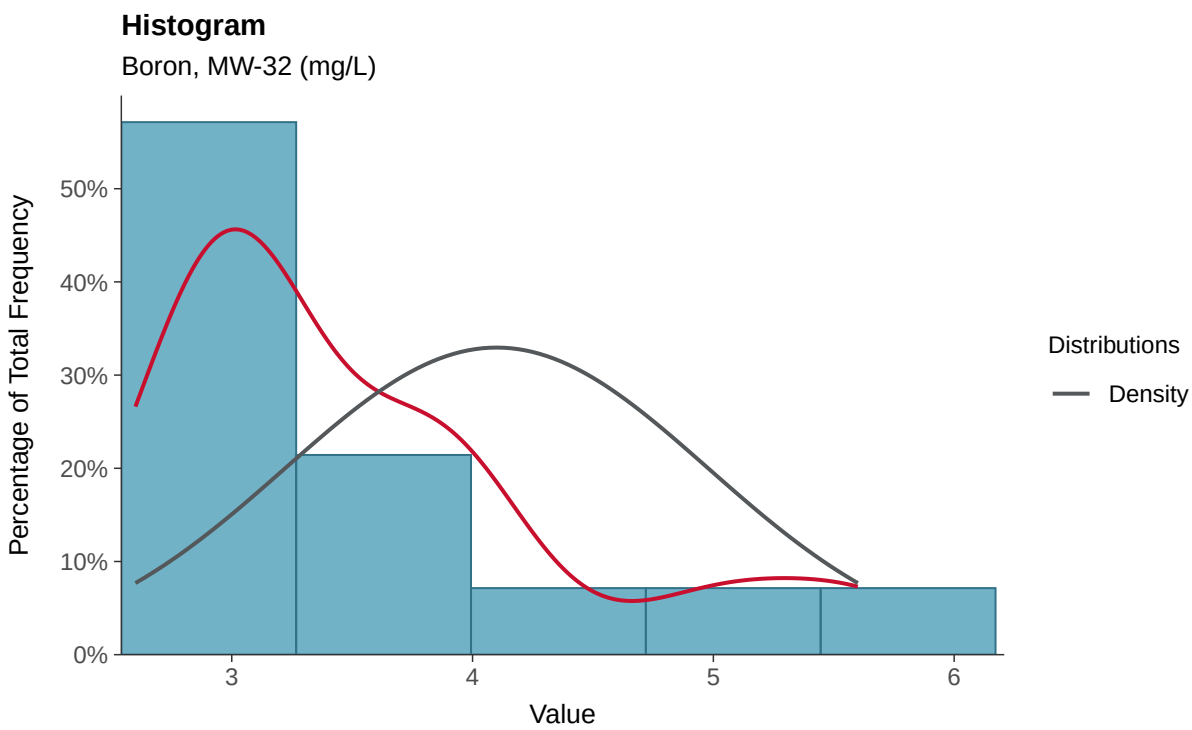
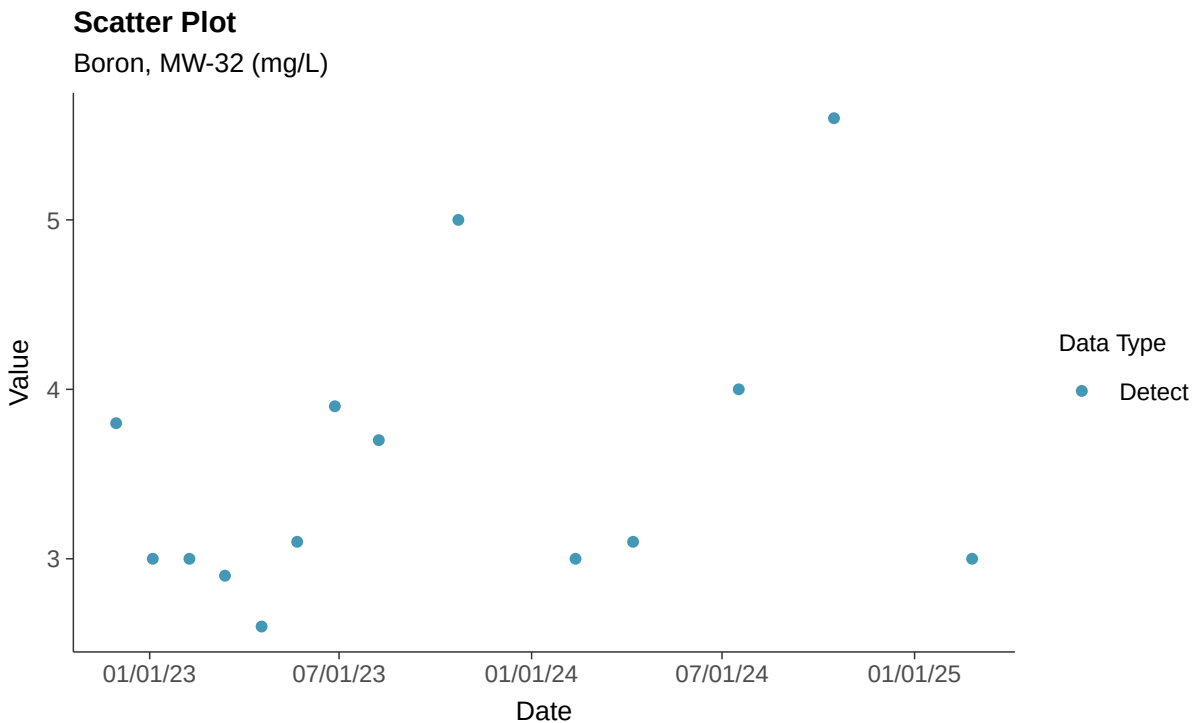


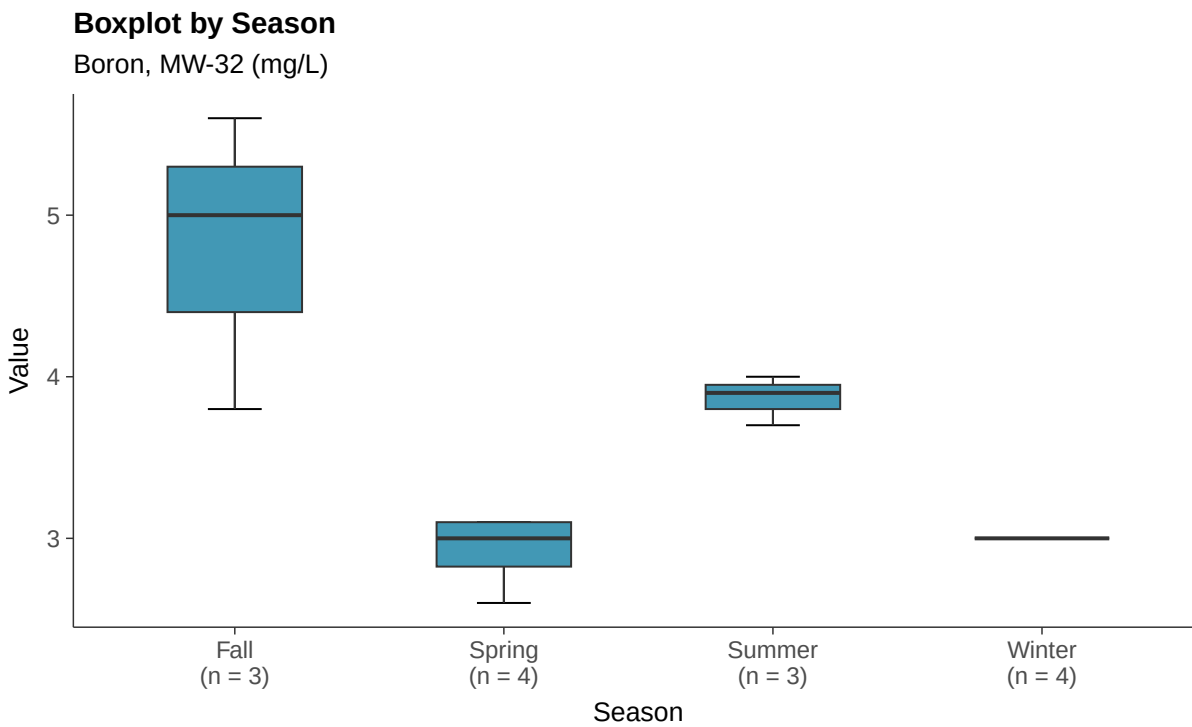
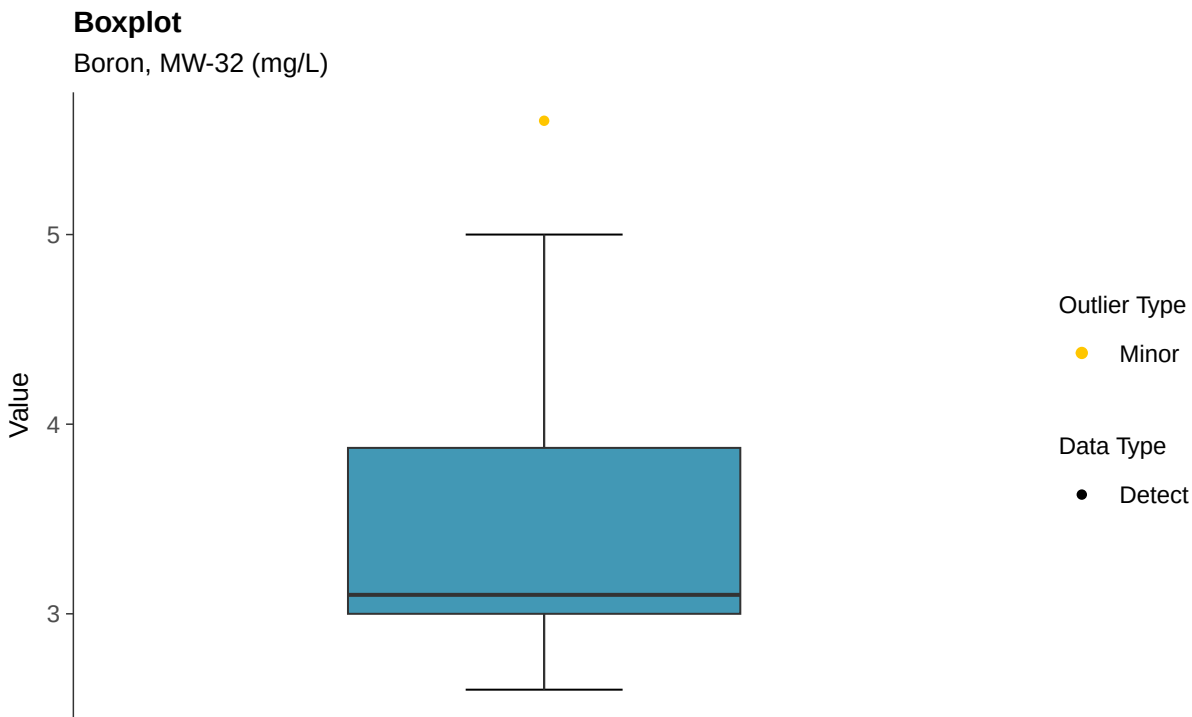


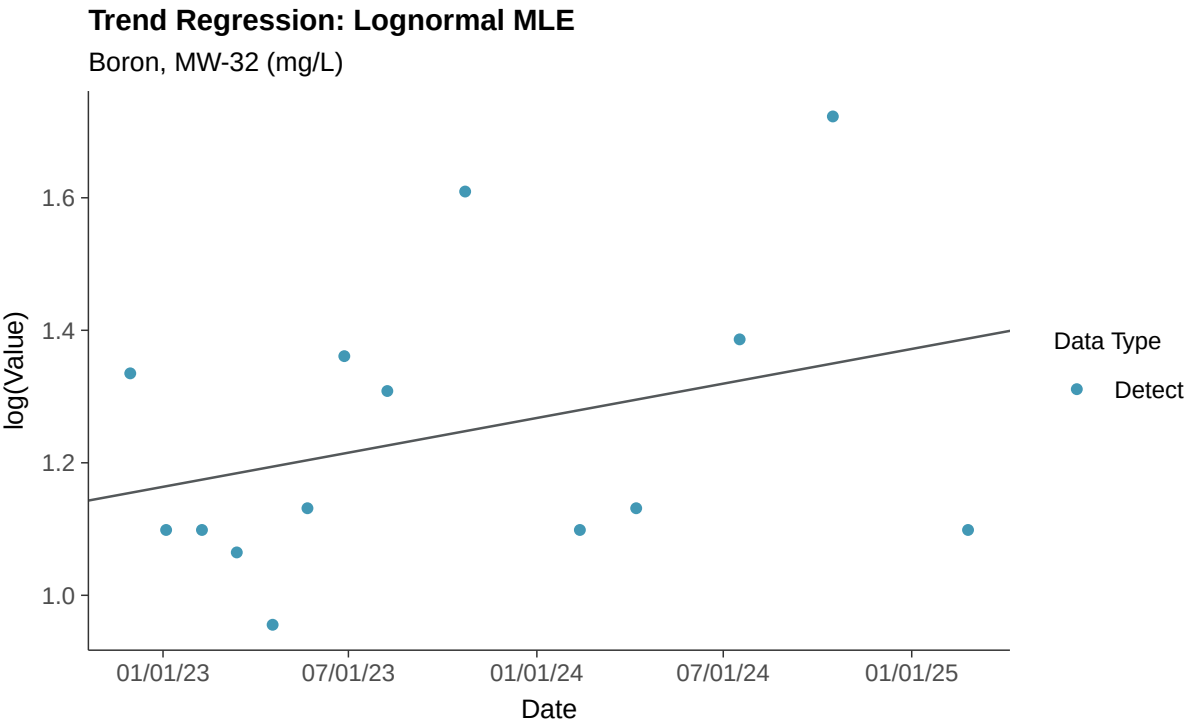
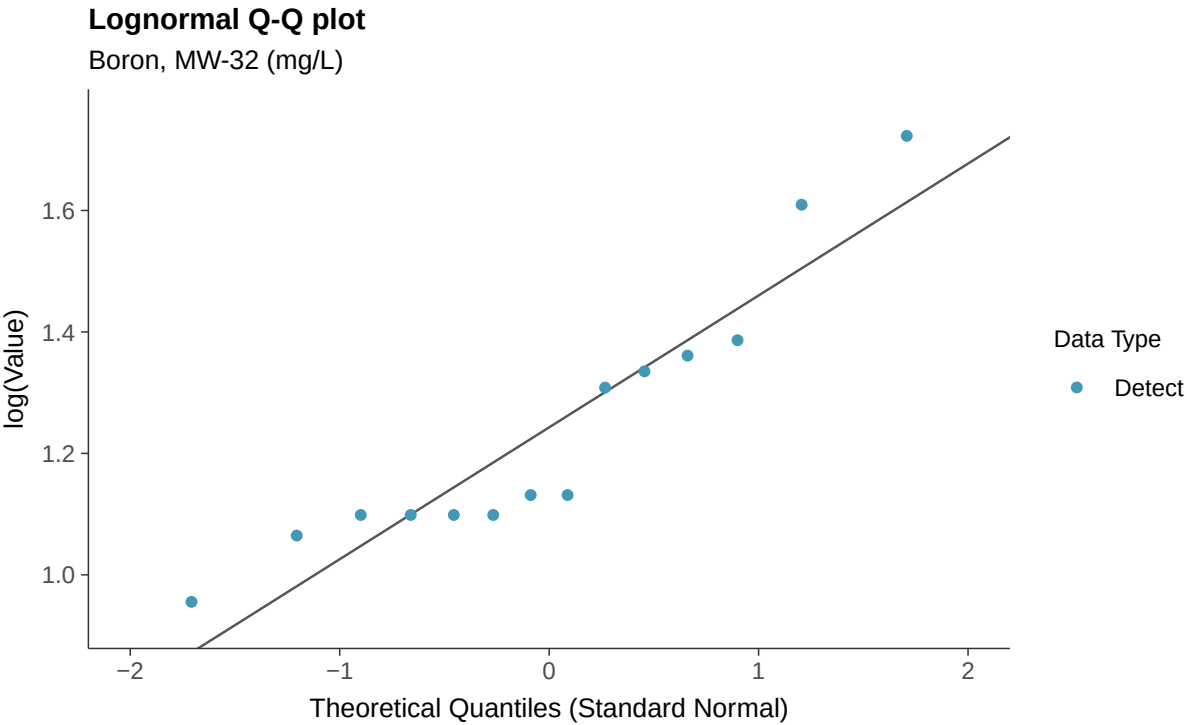


Appendix III: Boron, MW-32

ID: 42_1_3_105



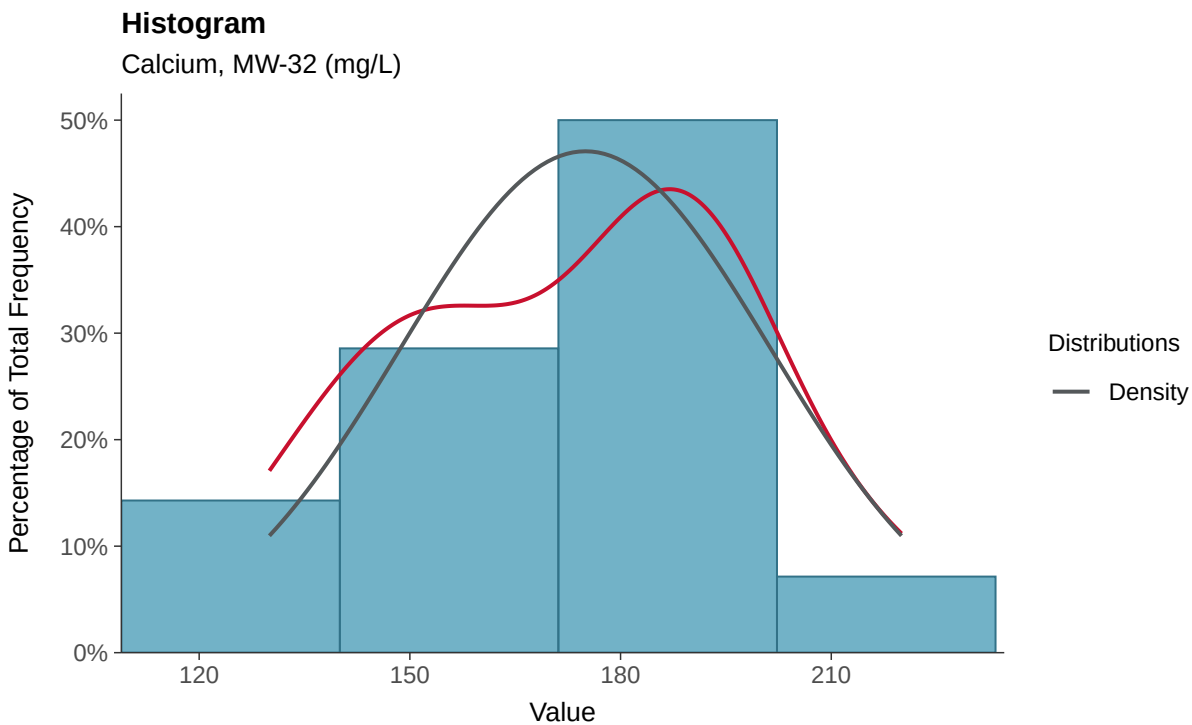
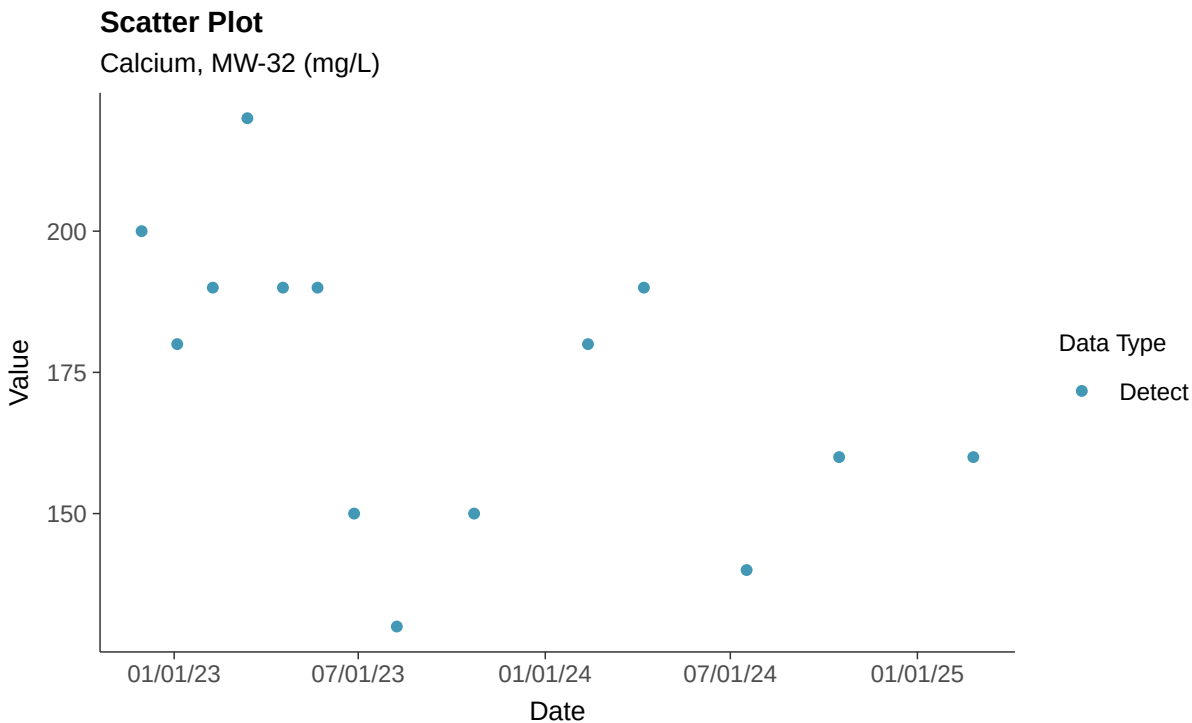


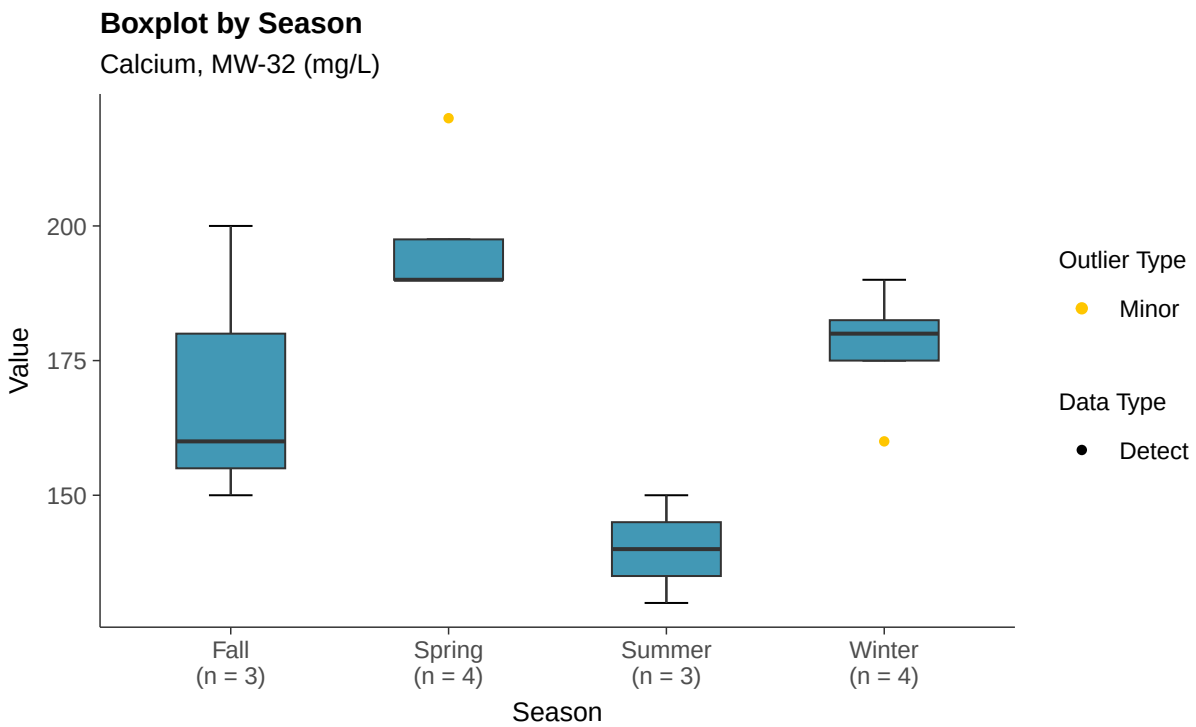
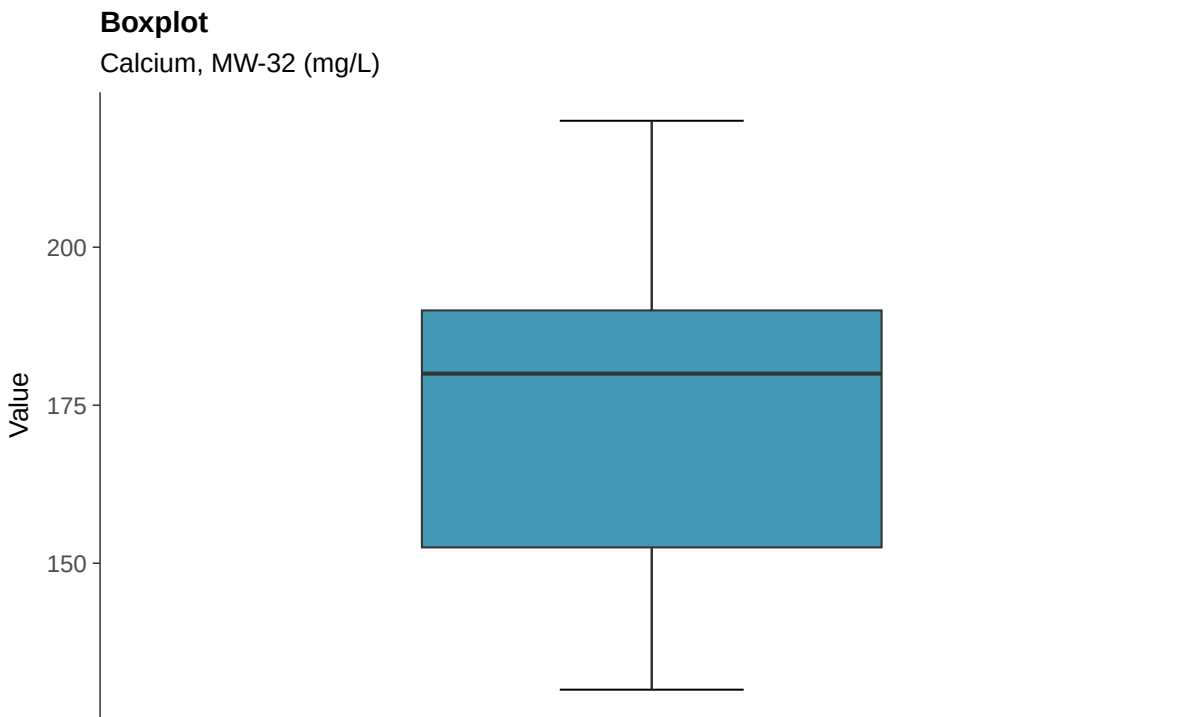


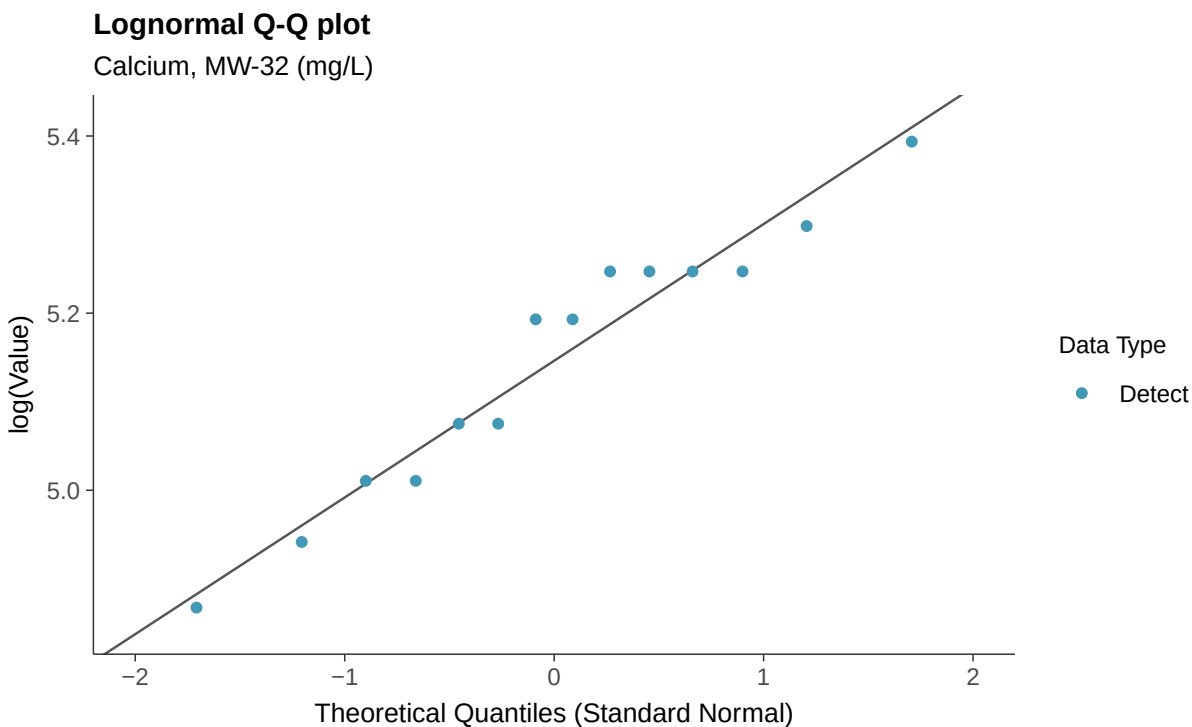
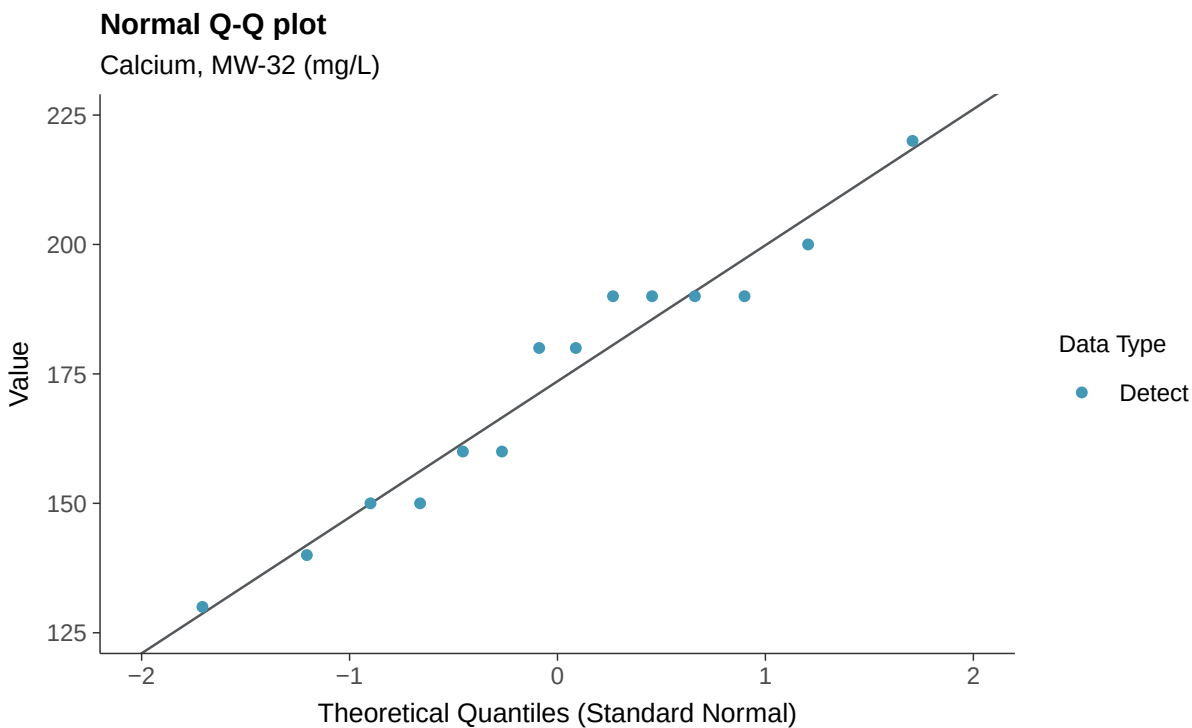


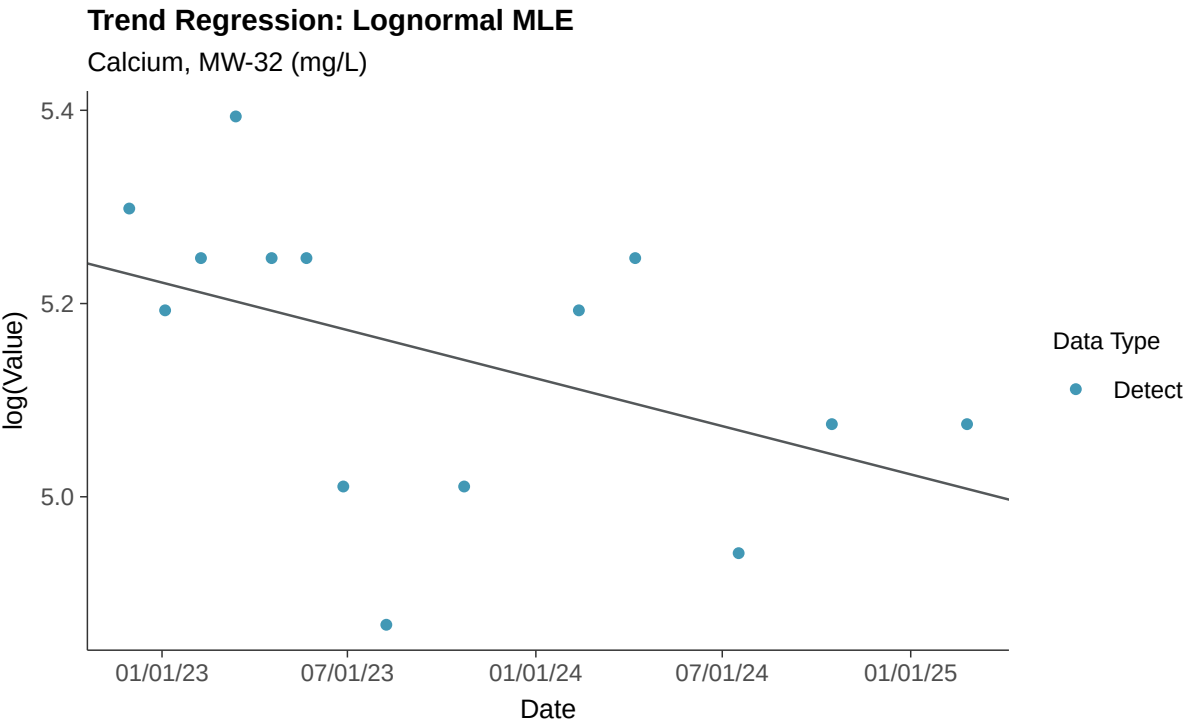
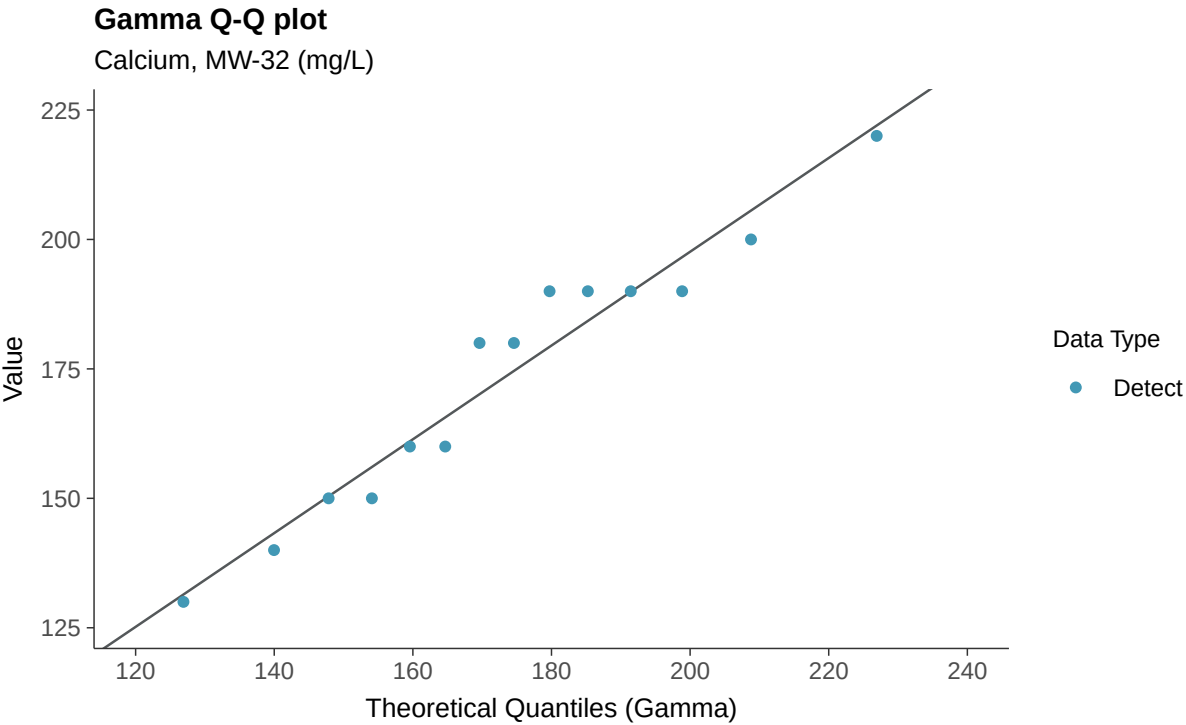
Appendix III: Calcium, MW-32

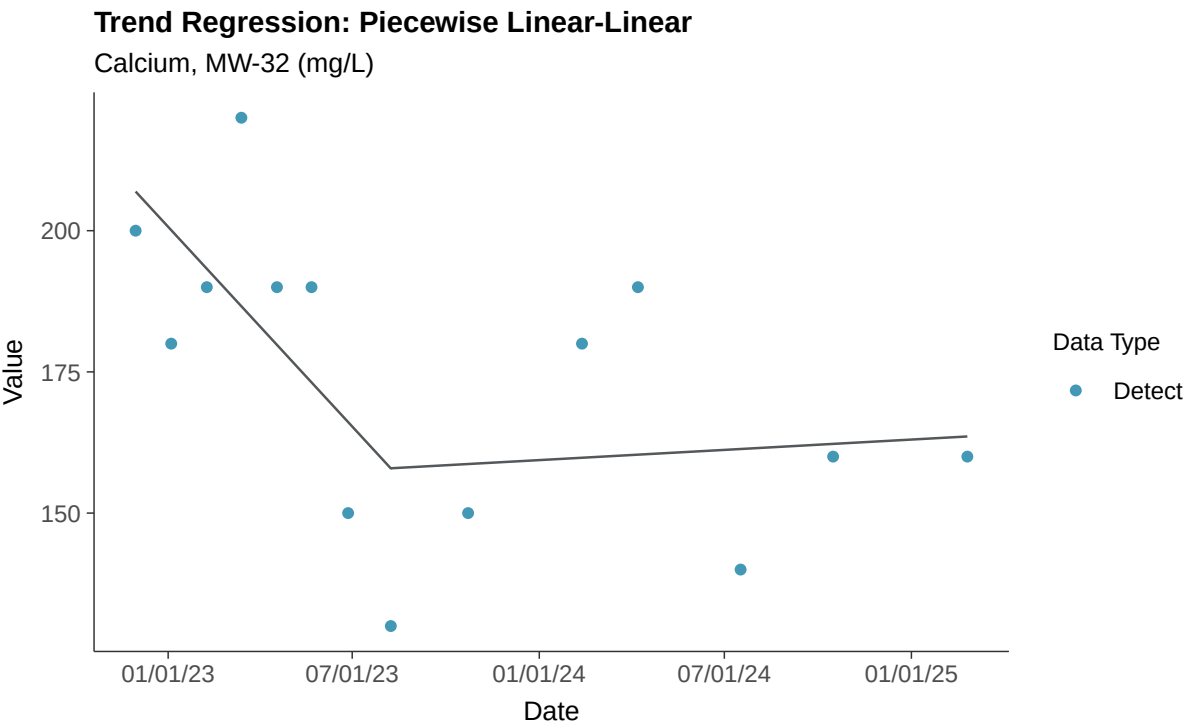
ID: 42_1_3_107







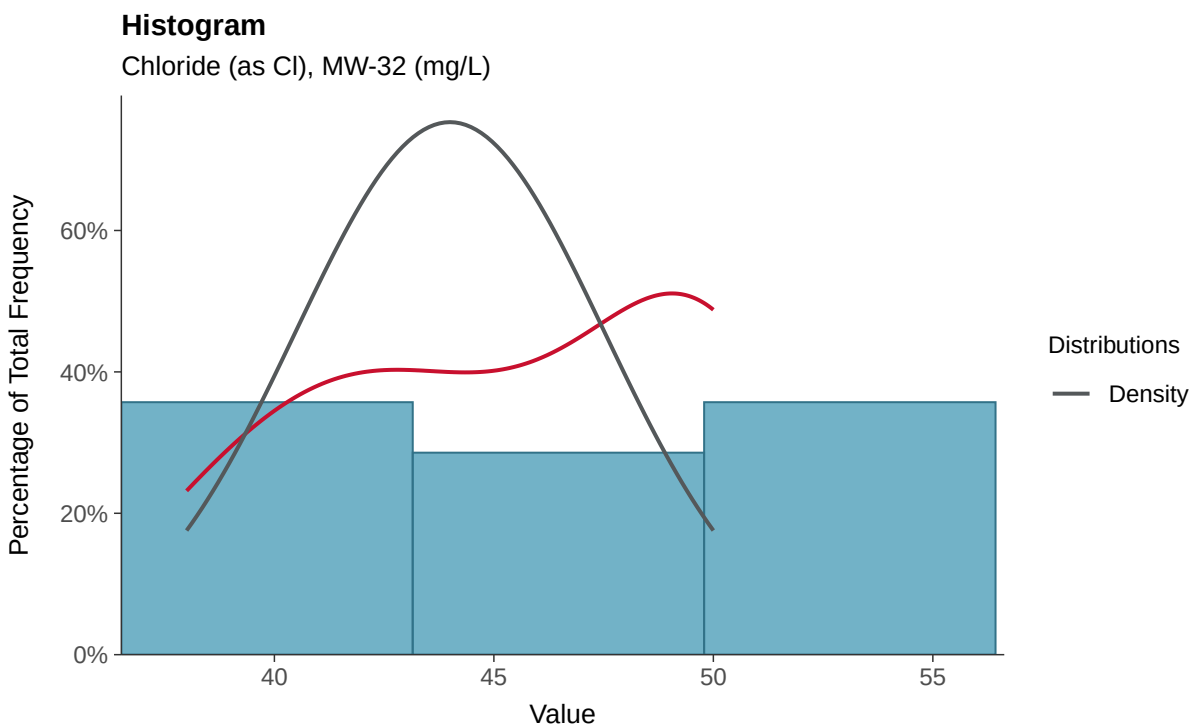
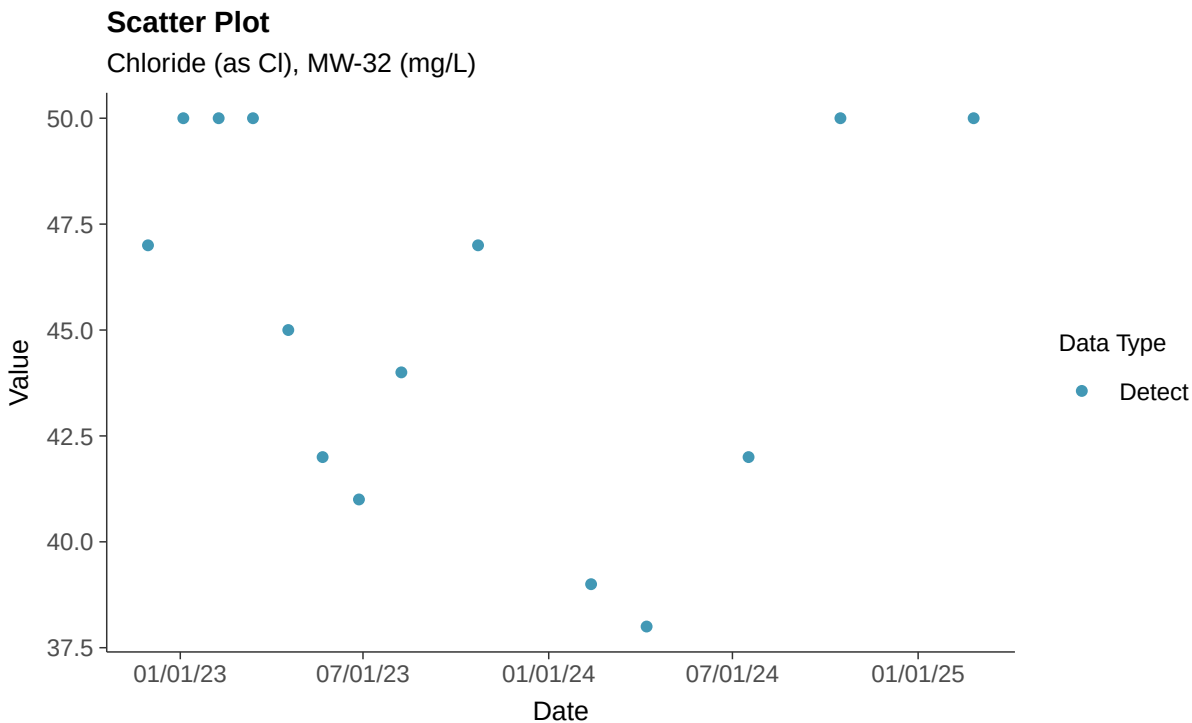


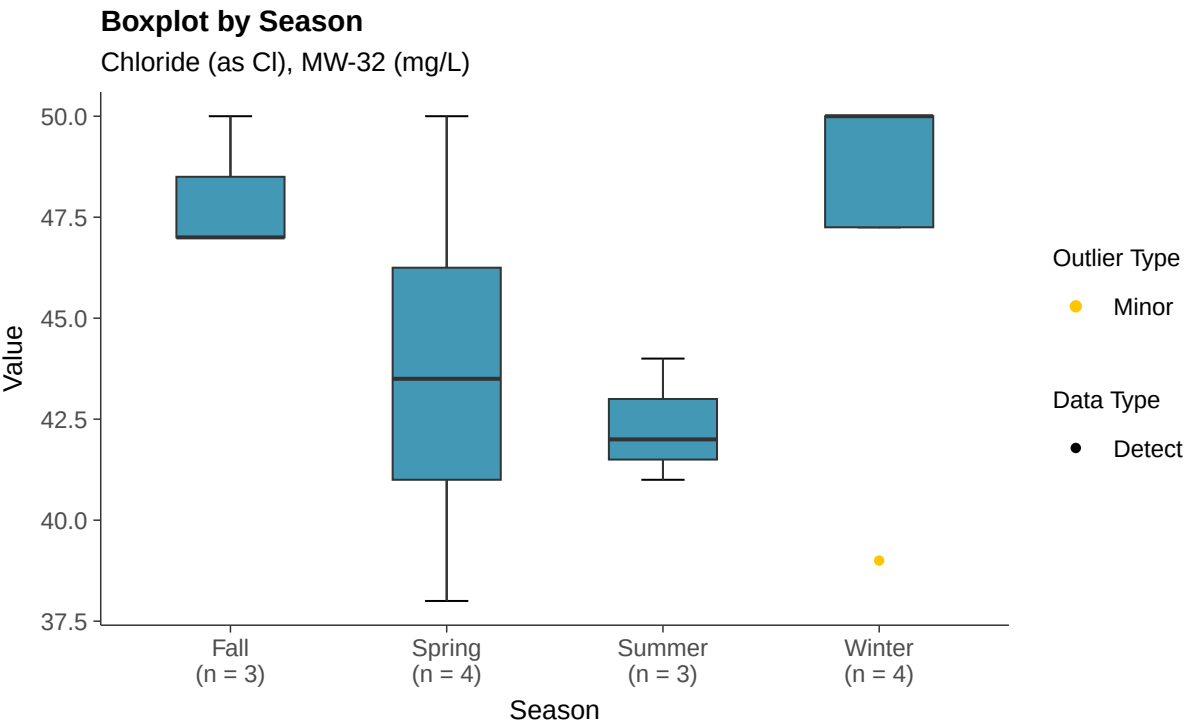
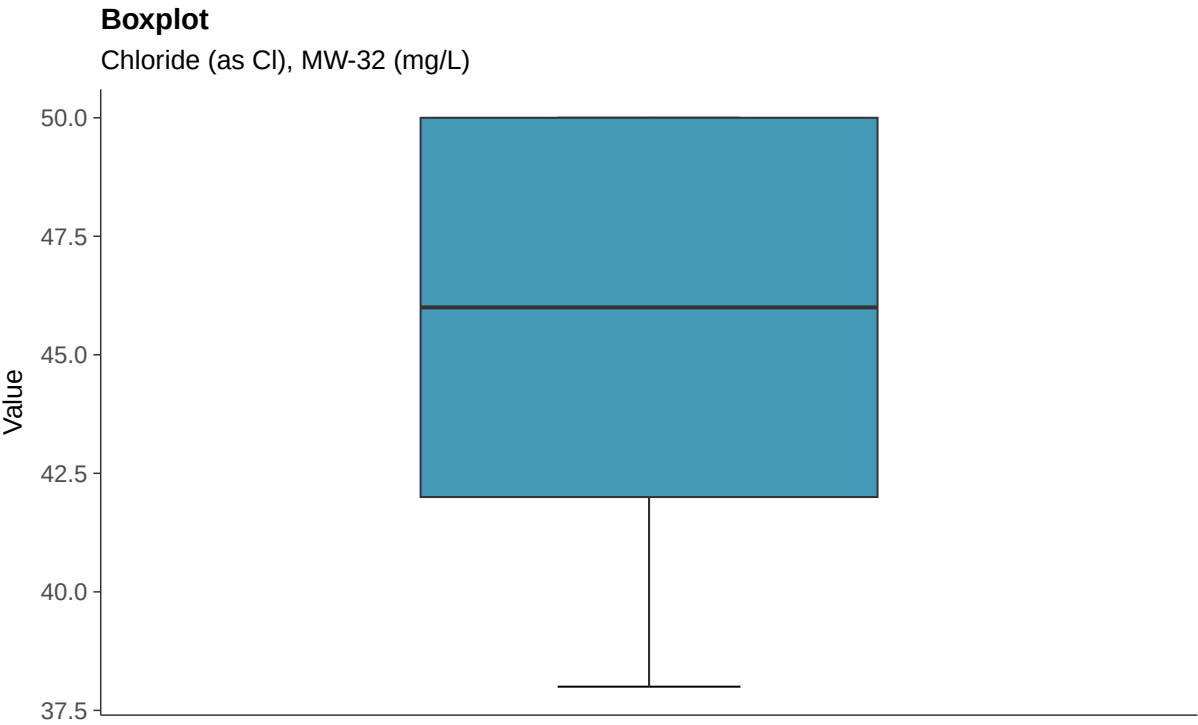


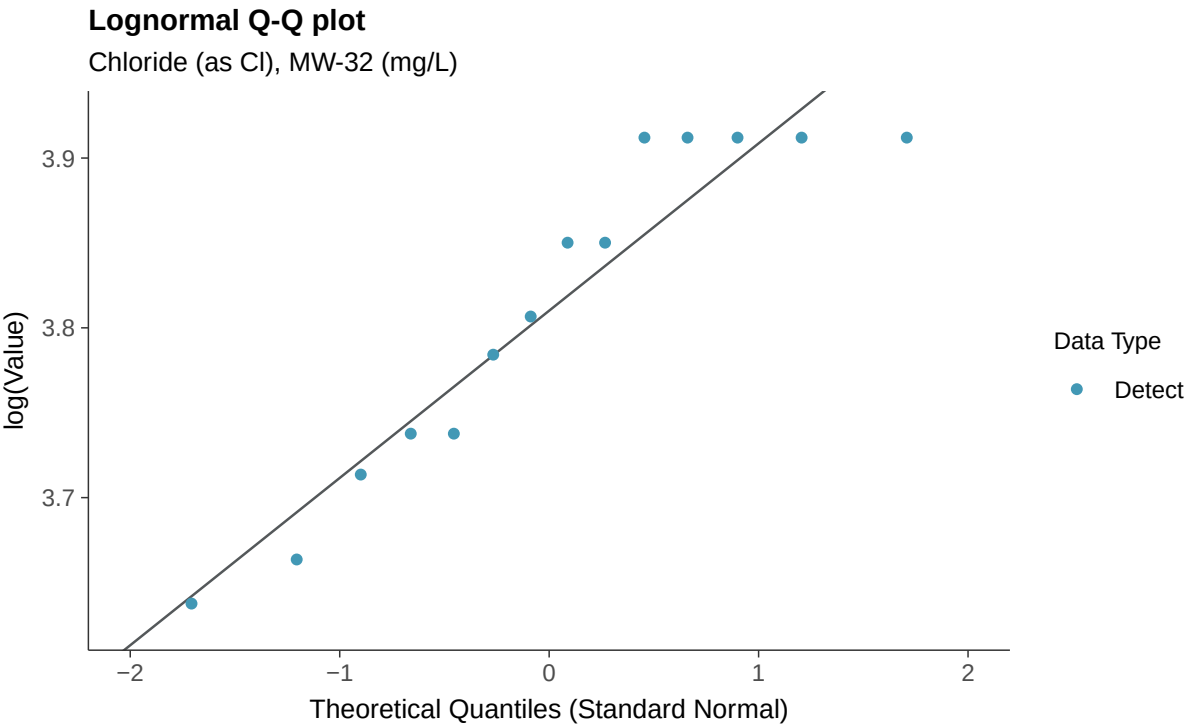
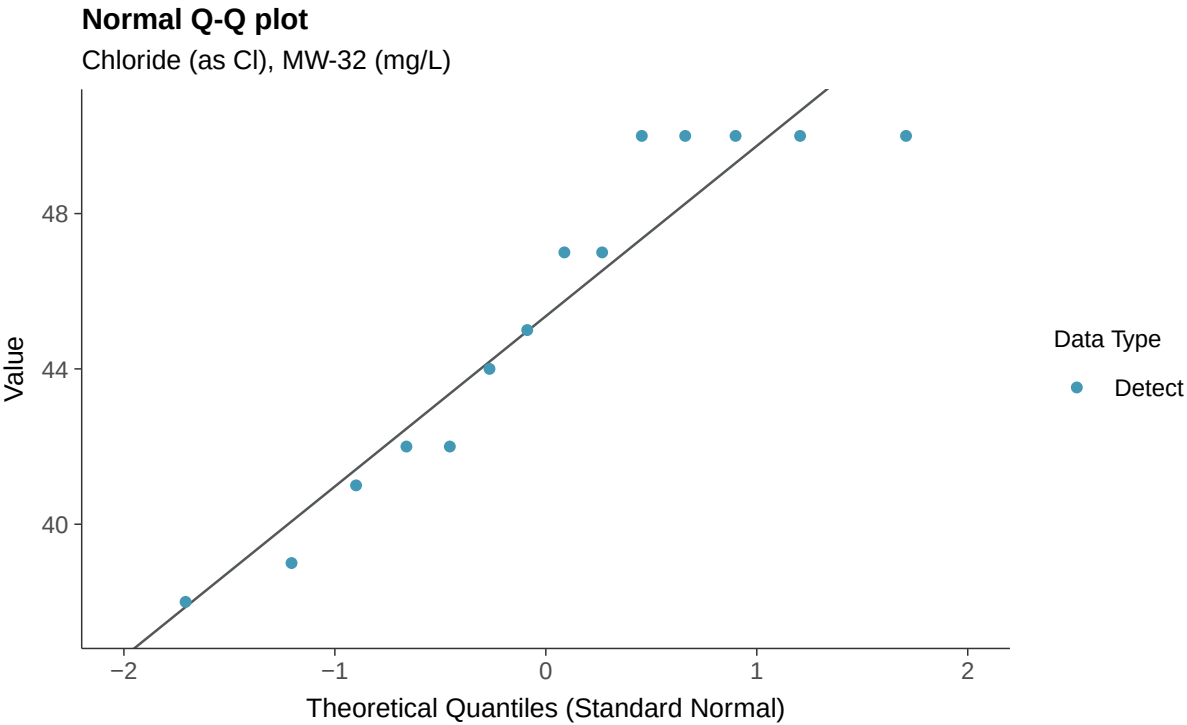


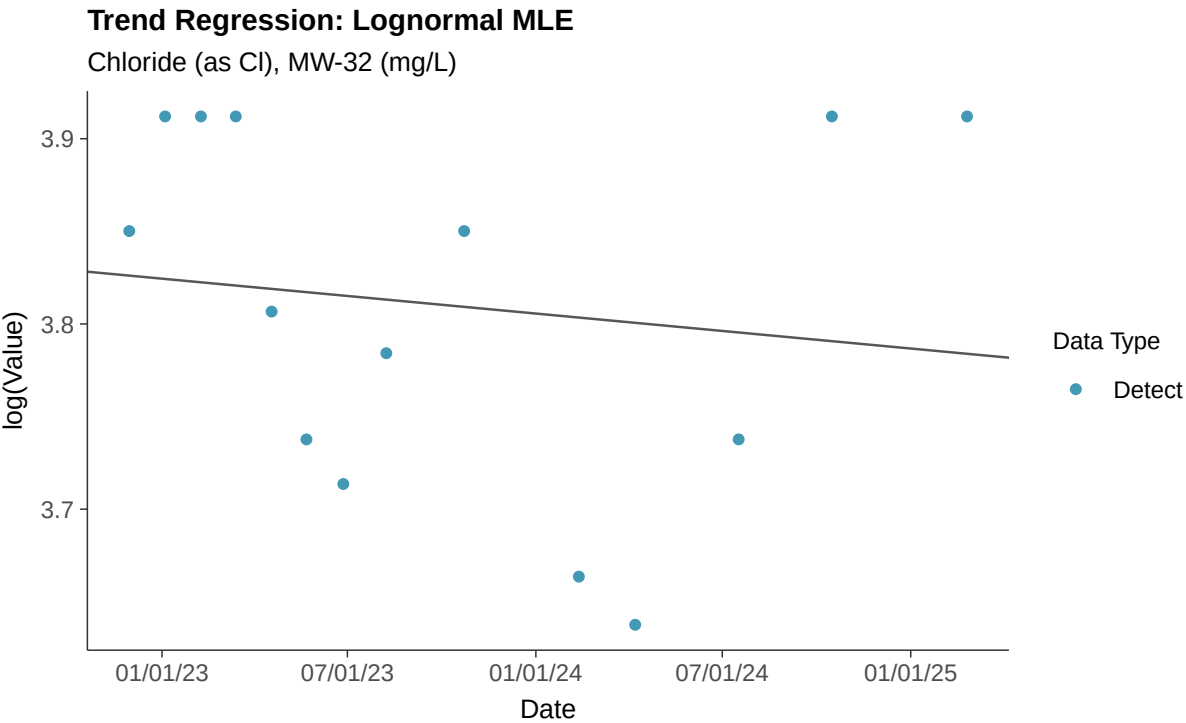
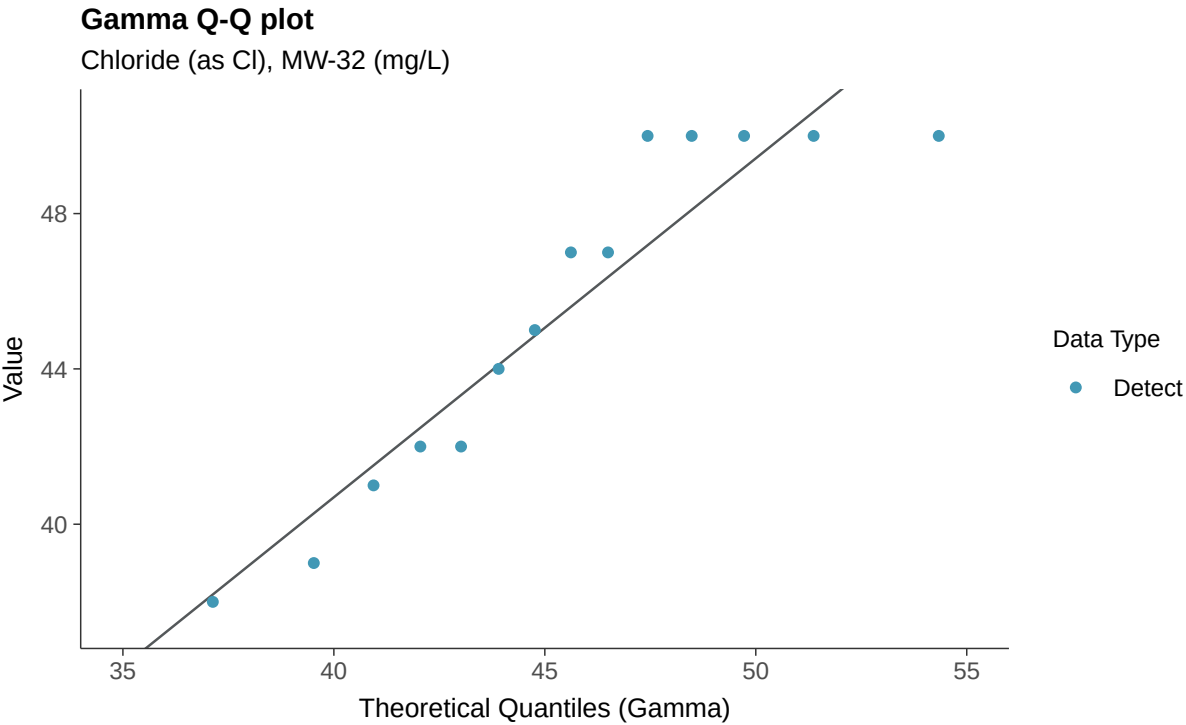
Appendix III: Chloride (as Cl), MW-32

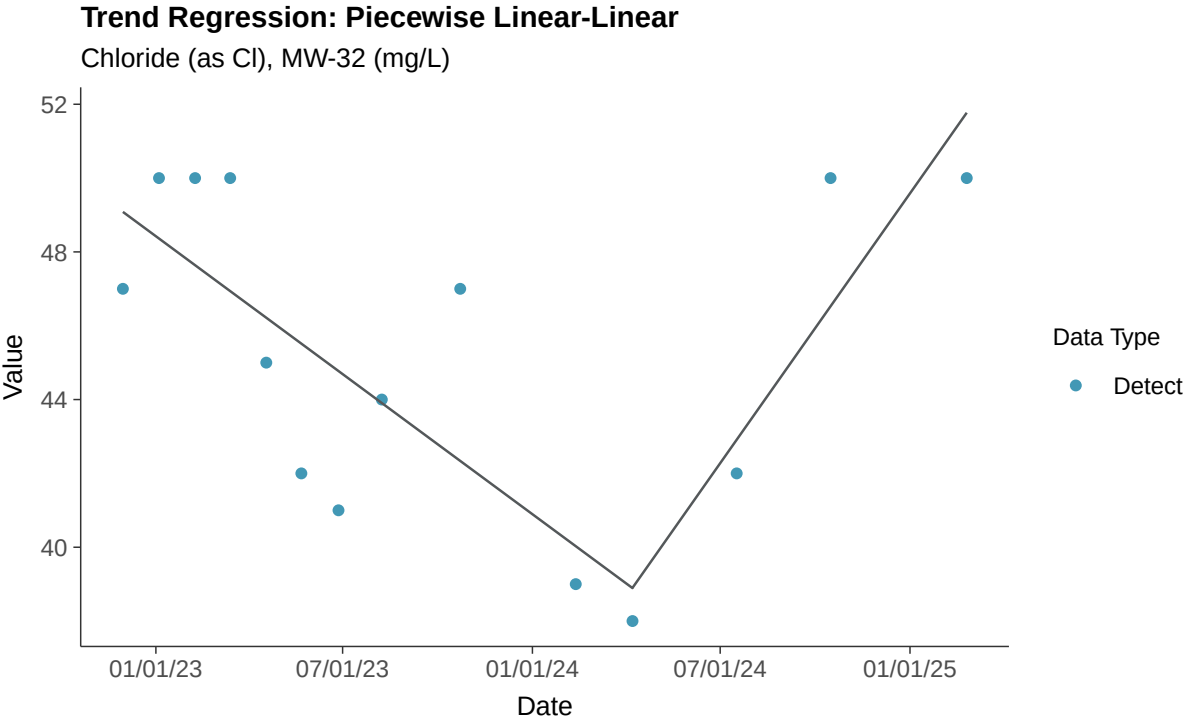
ID: 42_1_3_108







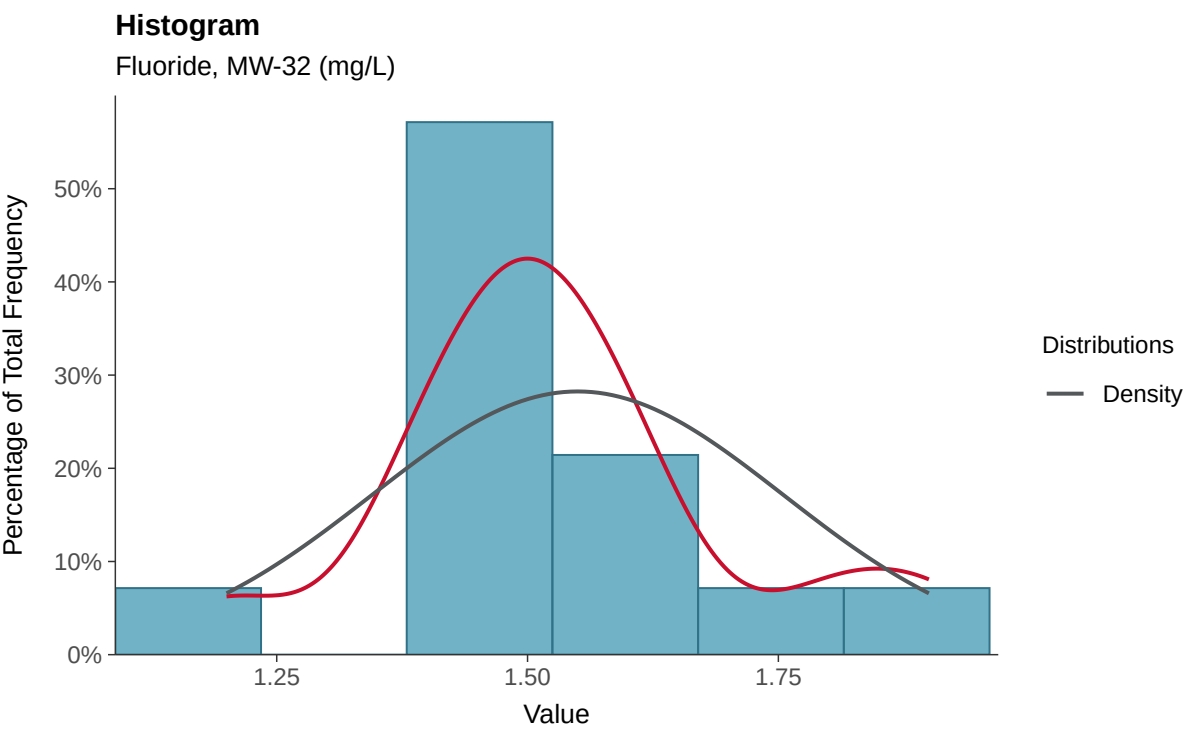
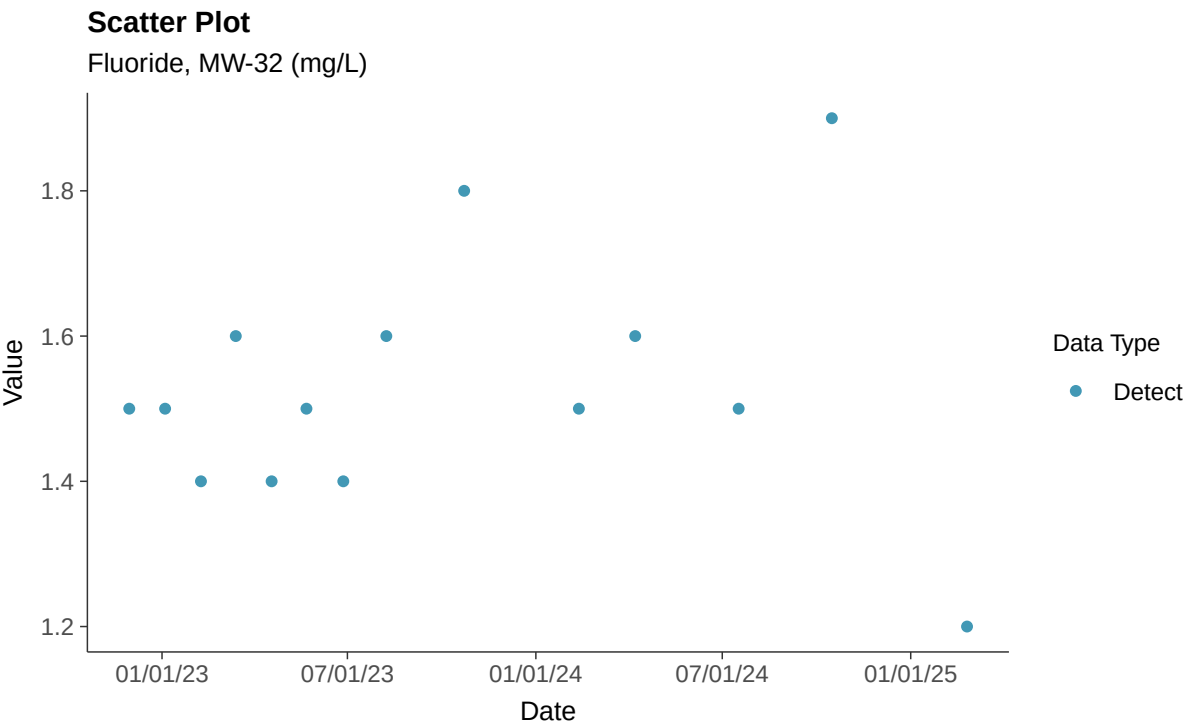


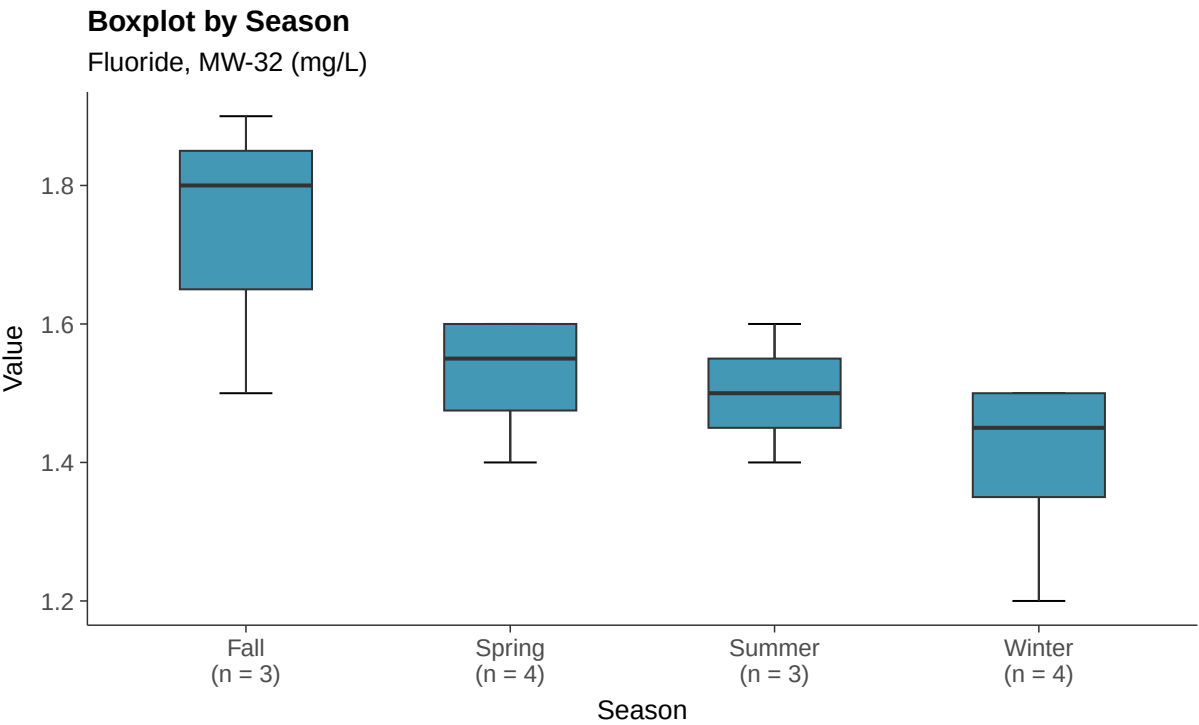
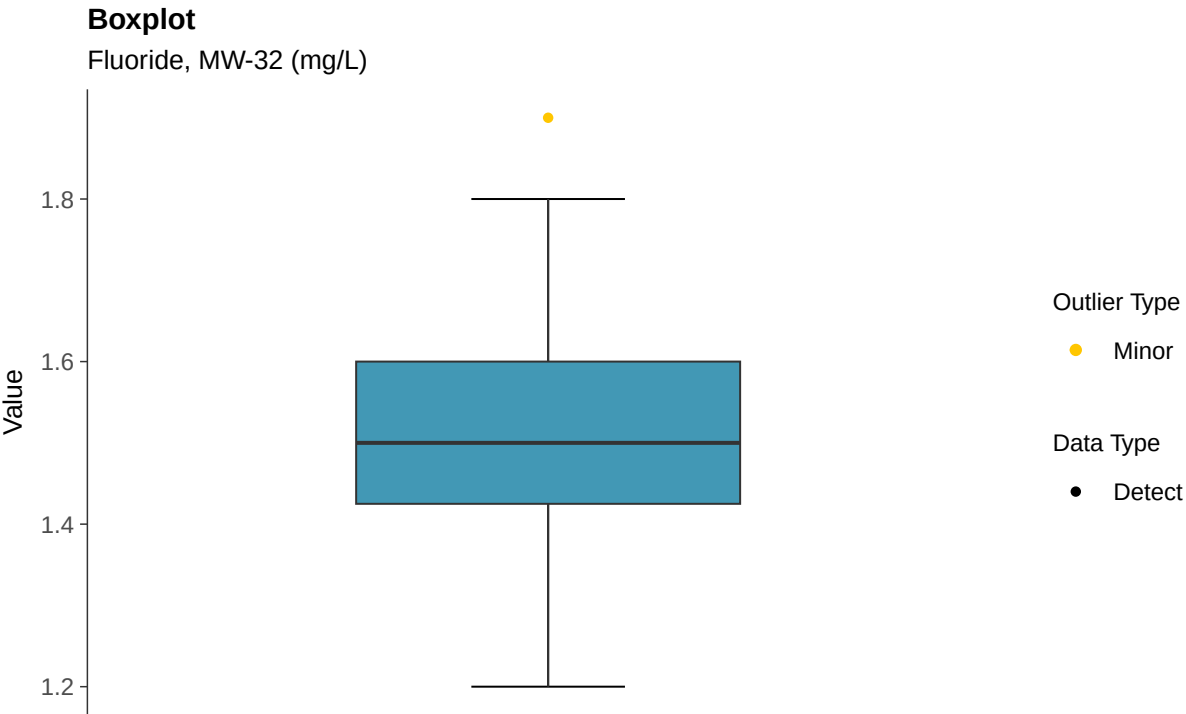


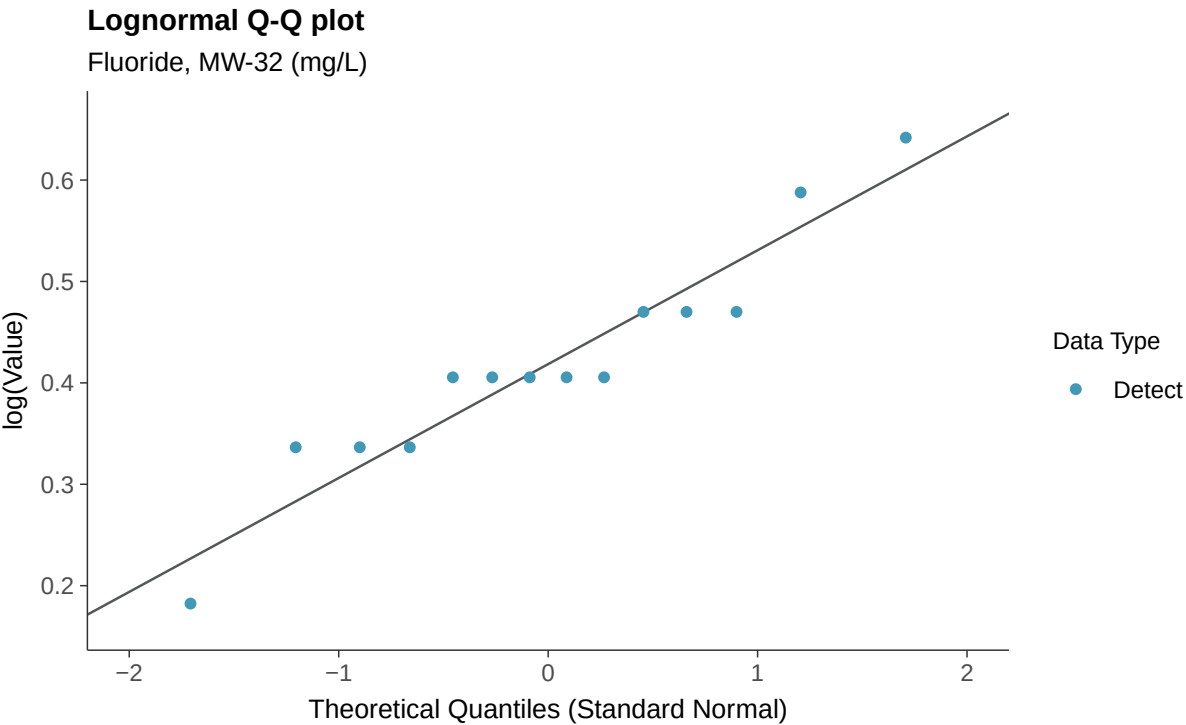
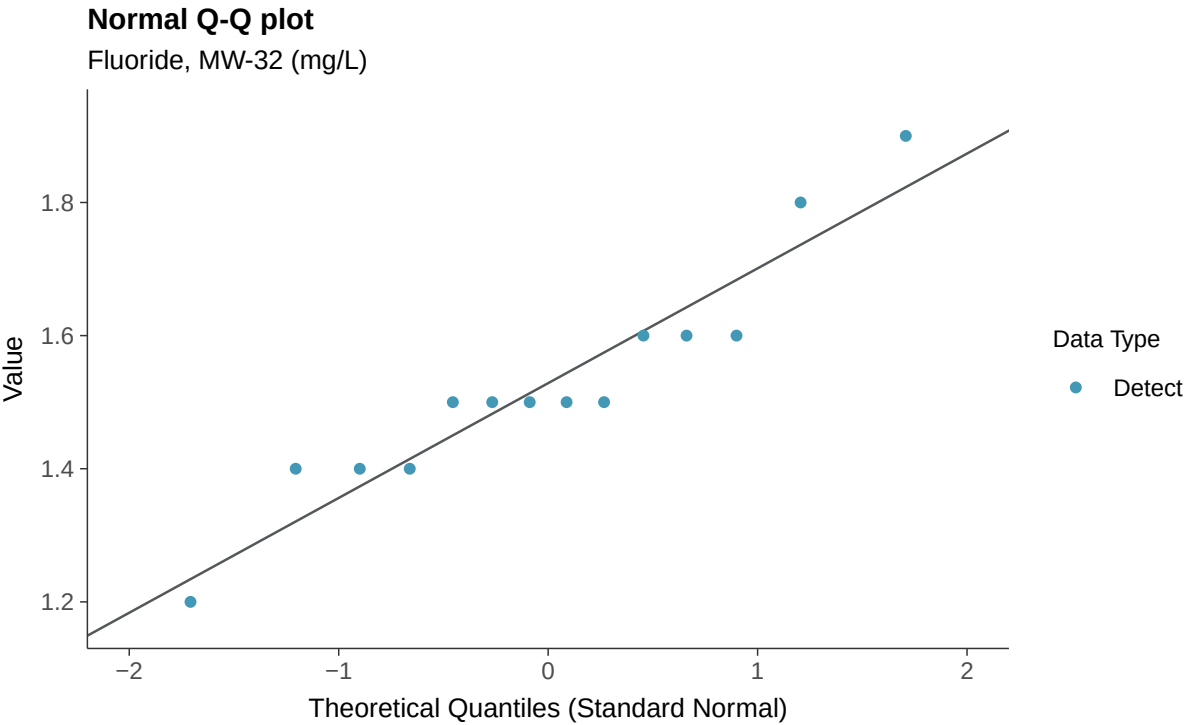


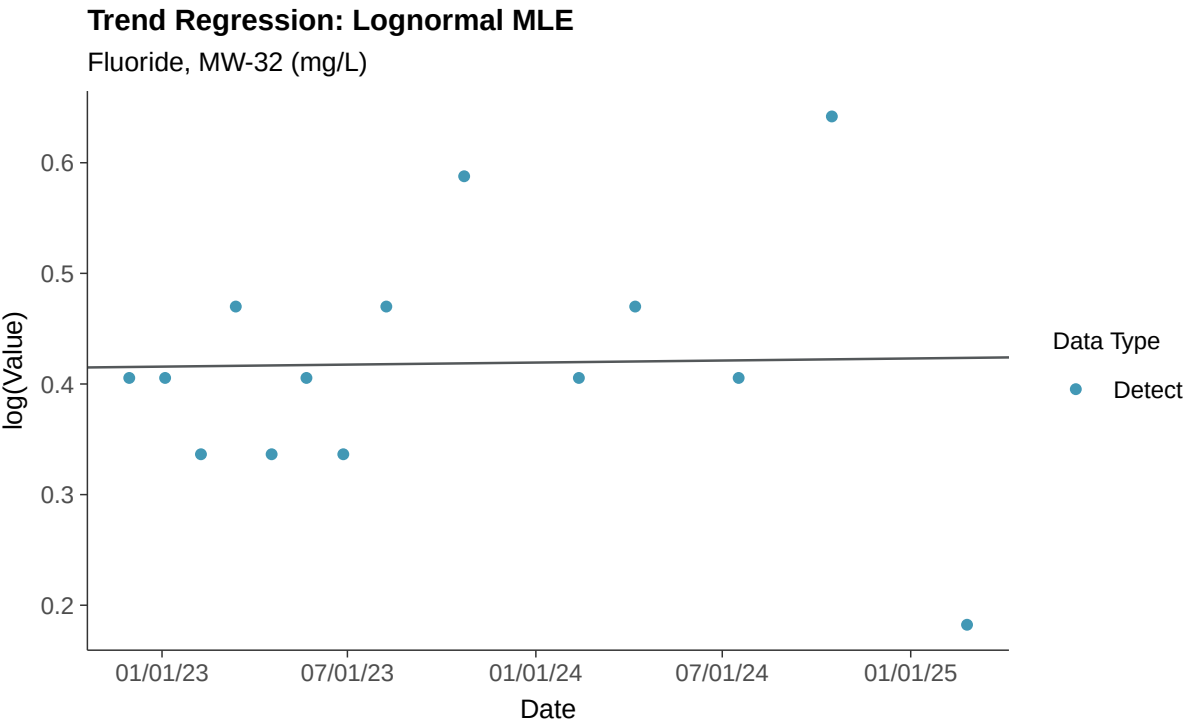
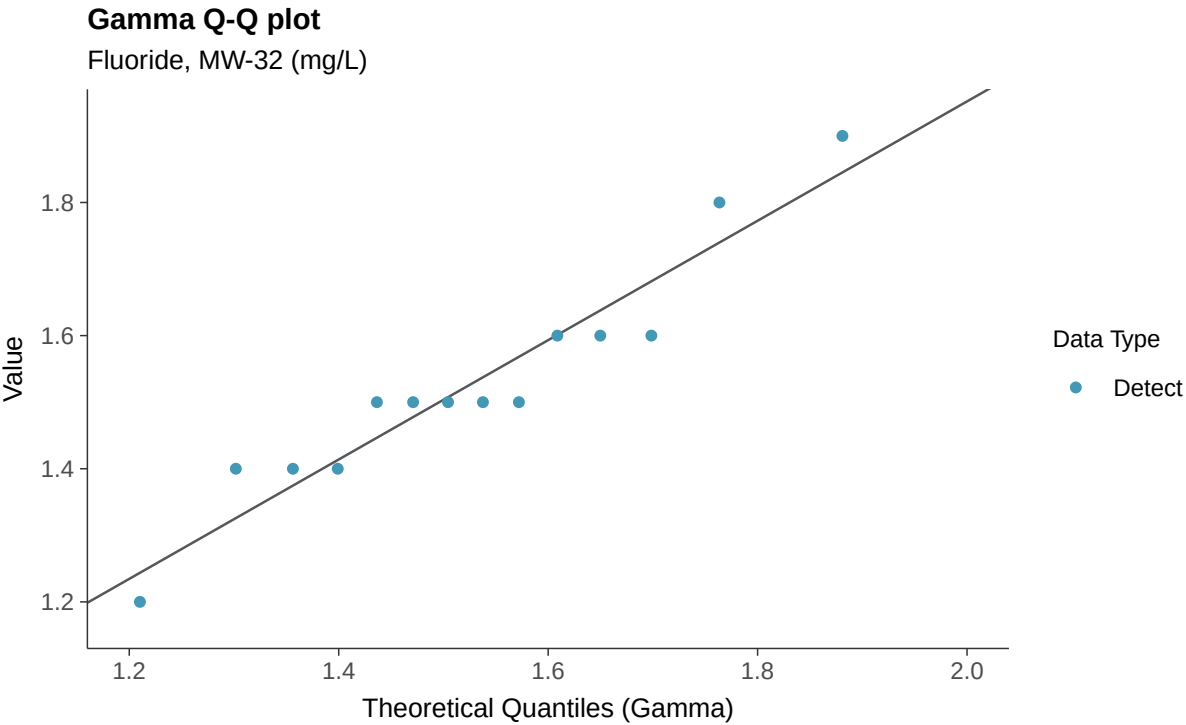
Appendix III: Fluoride, MW-32

ID: 42_1_3_112





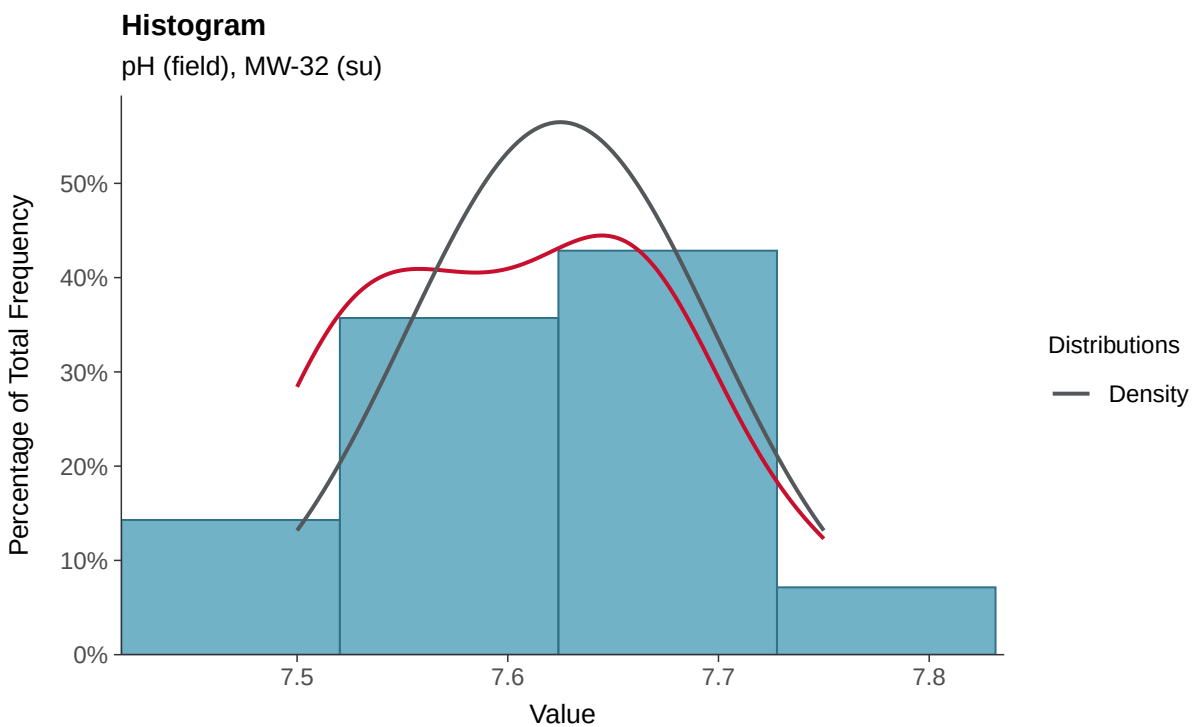
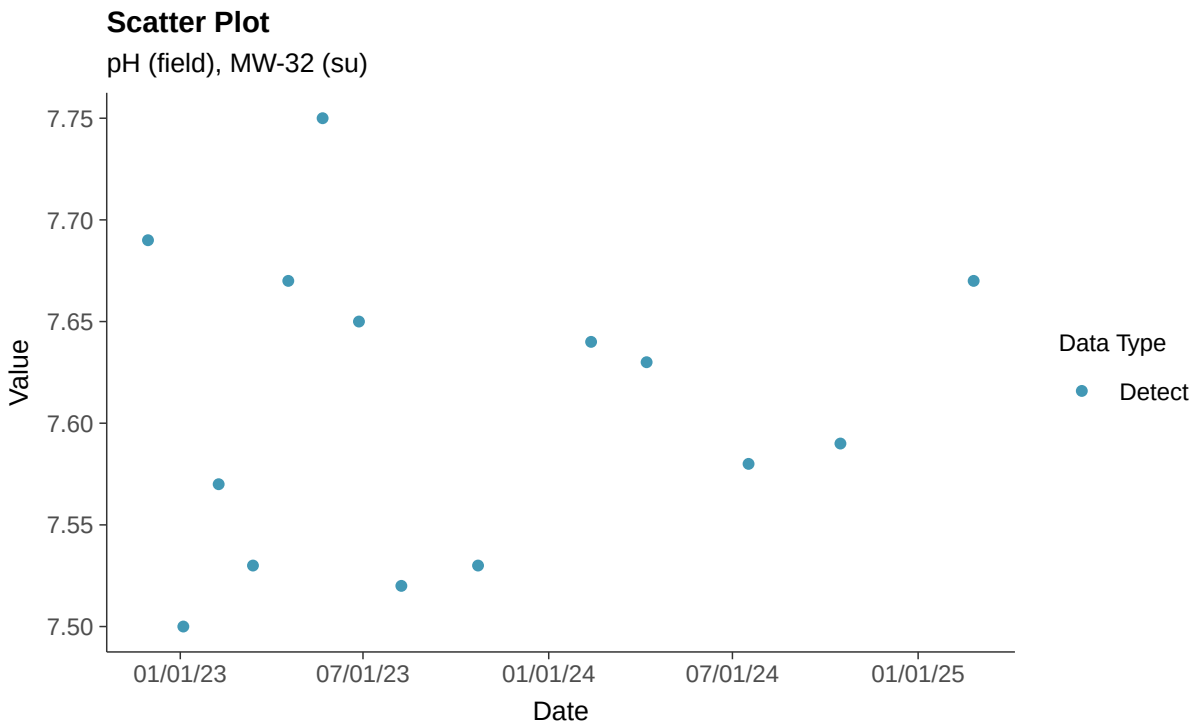


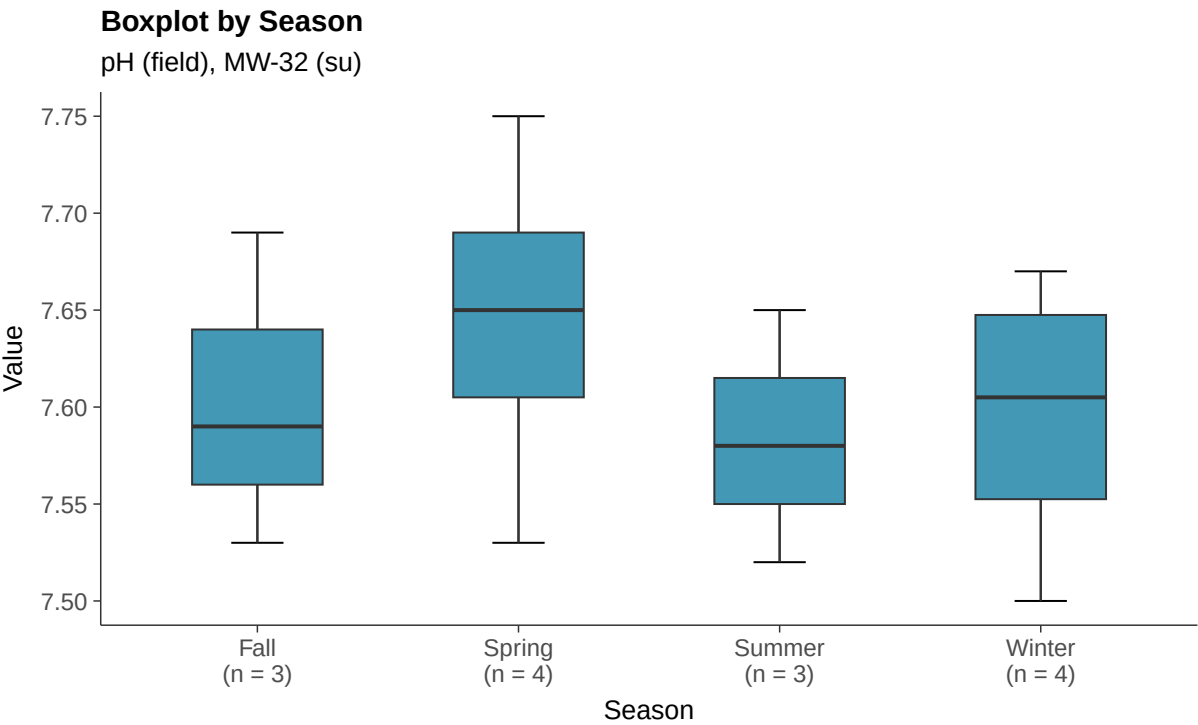
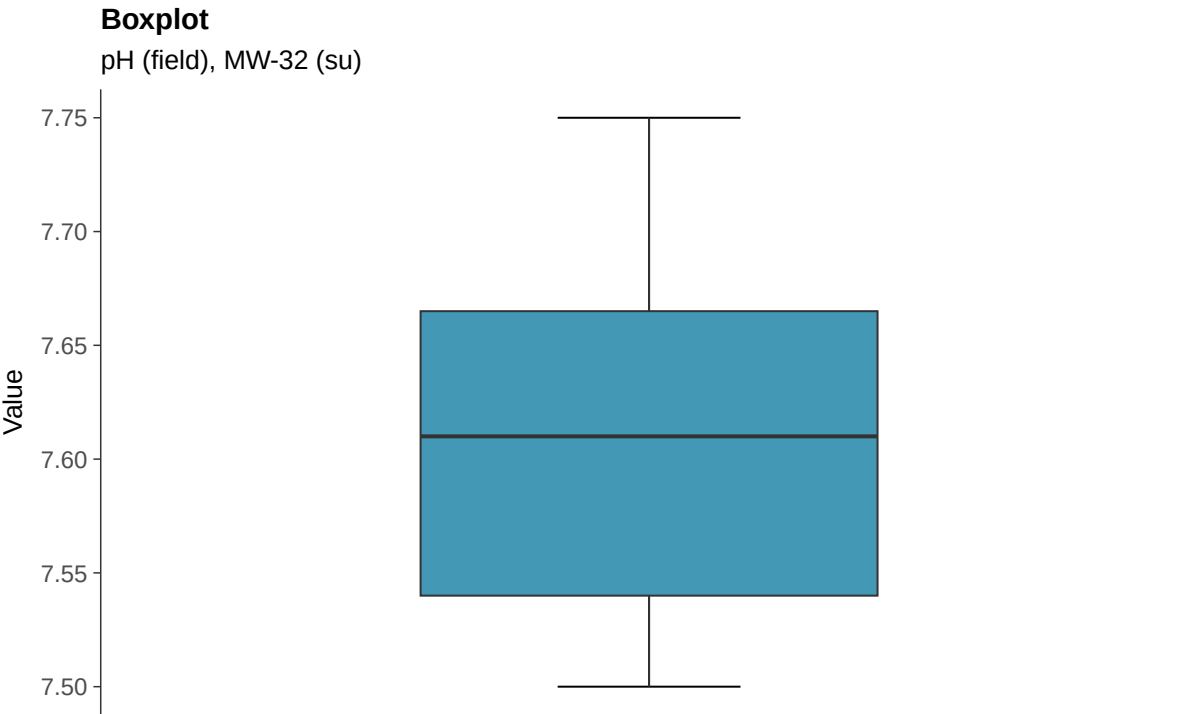


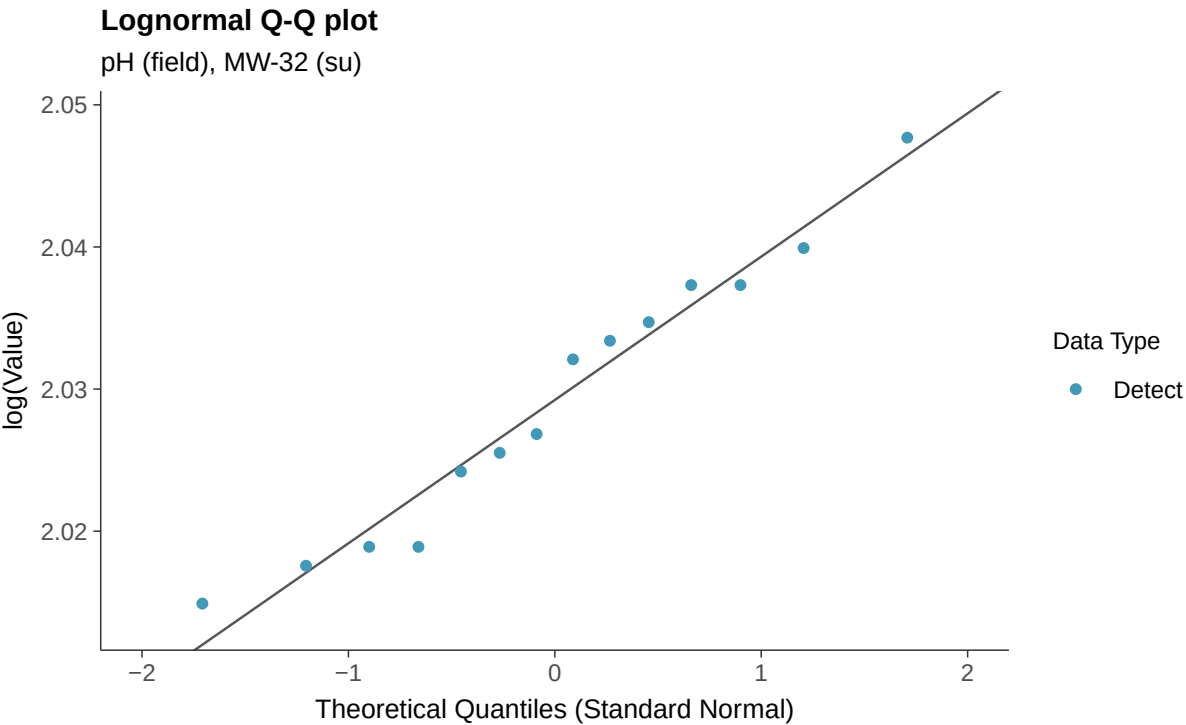
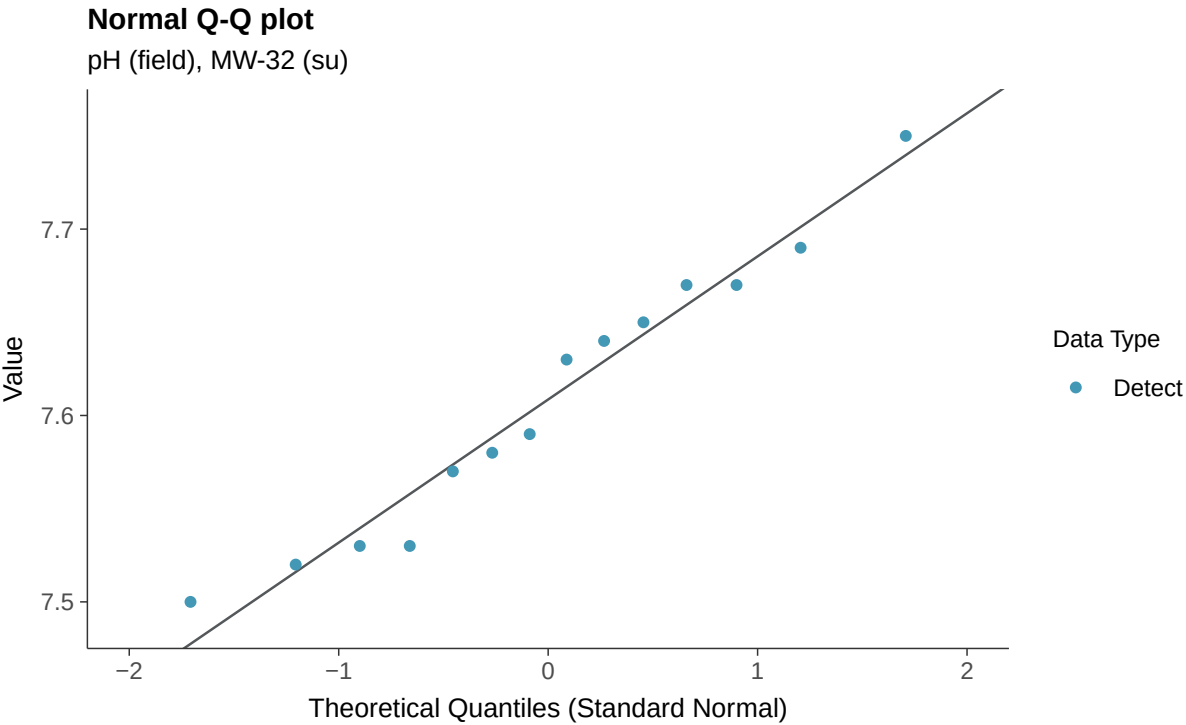


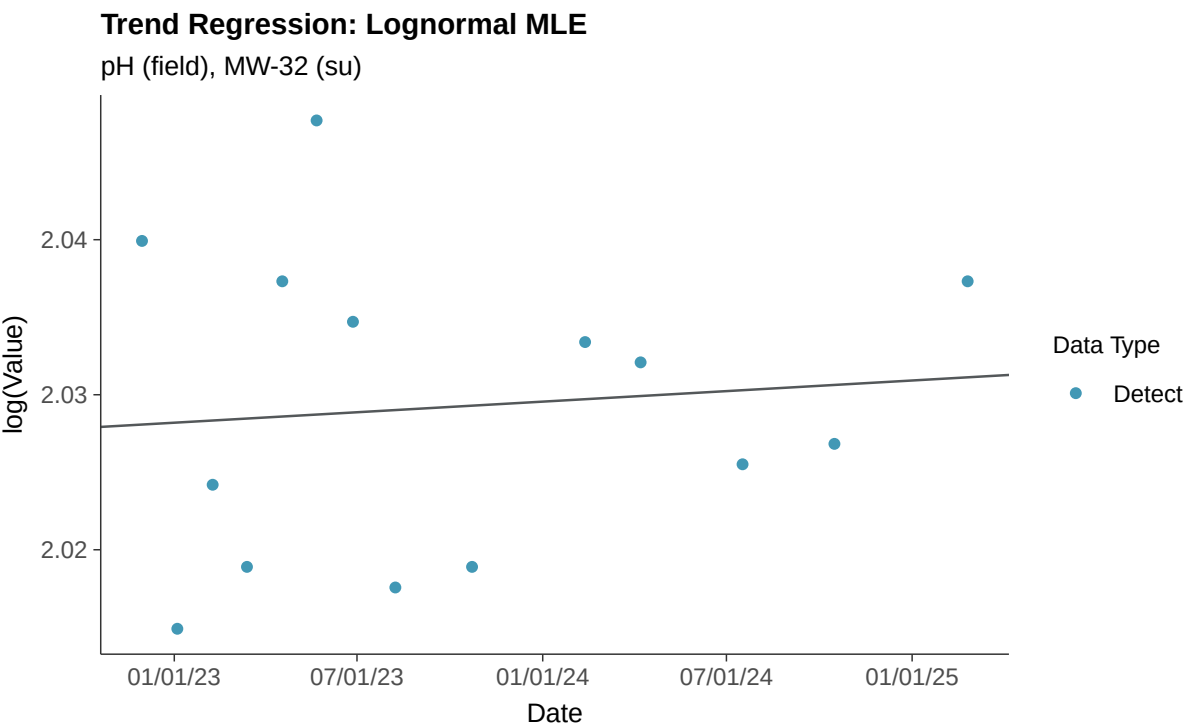
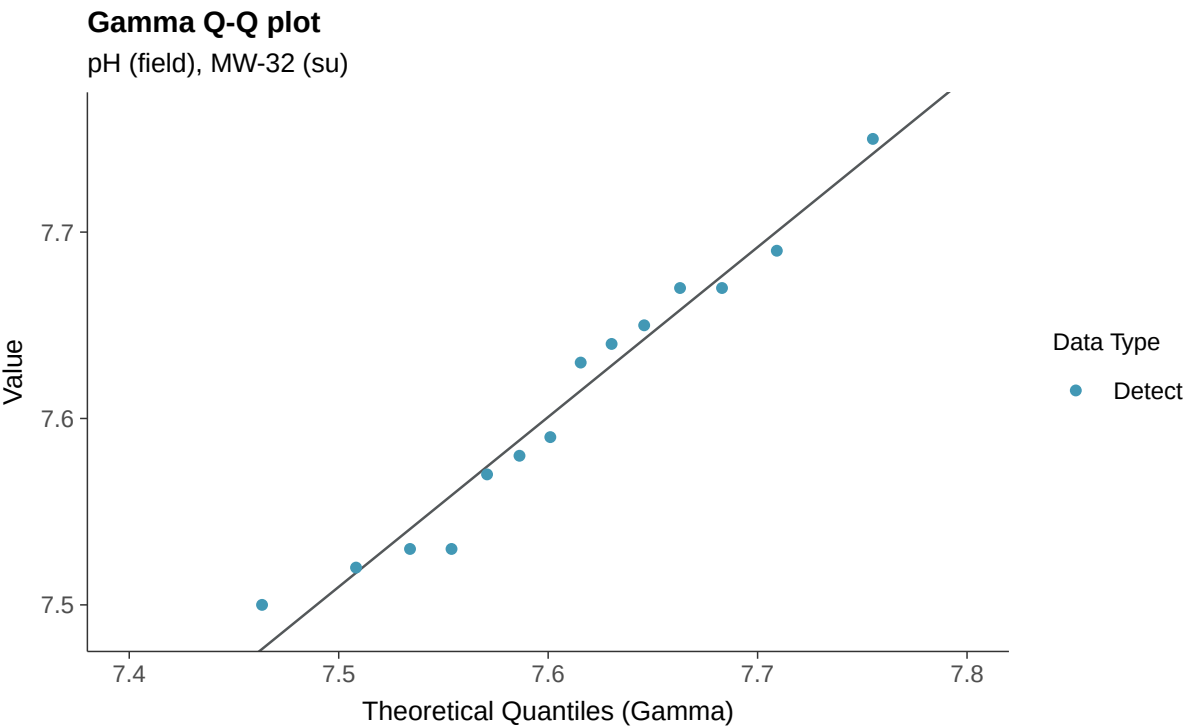
Appendix III: pH (field), MW-32

ID: 42_1_3_120





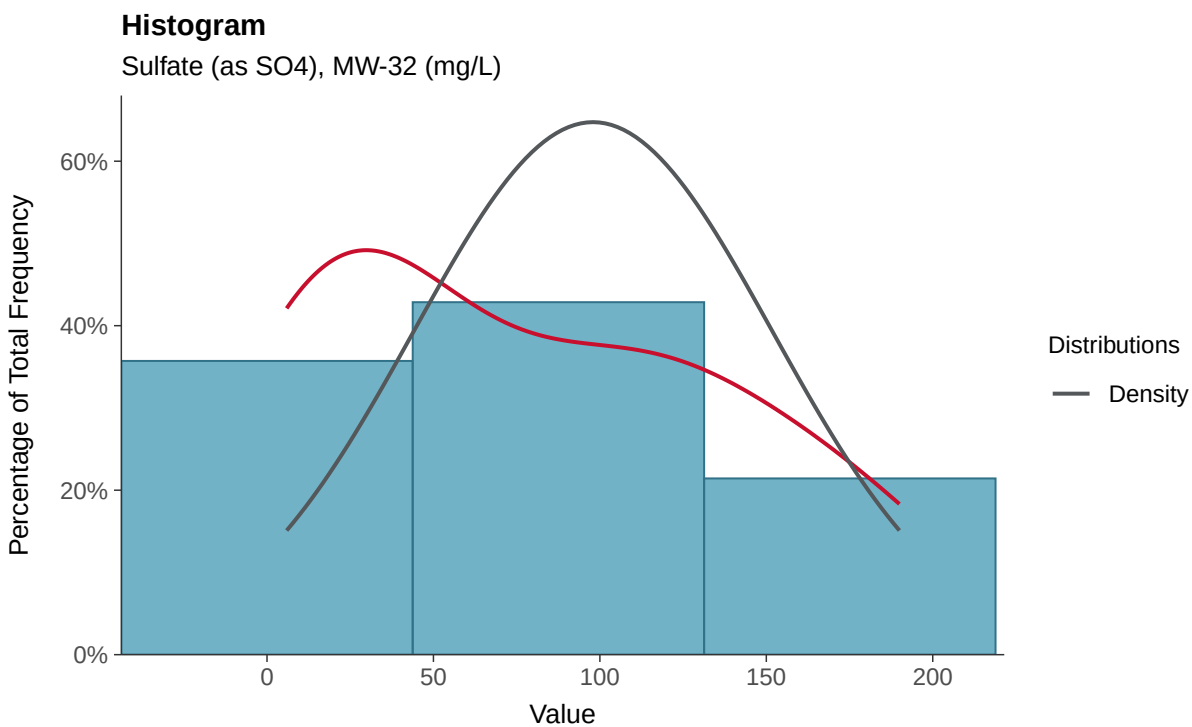
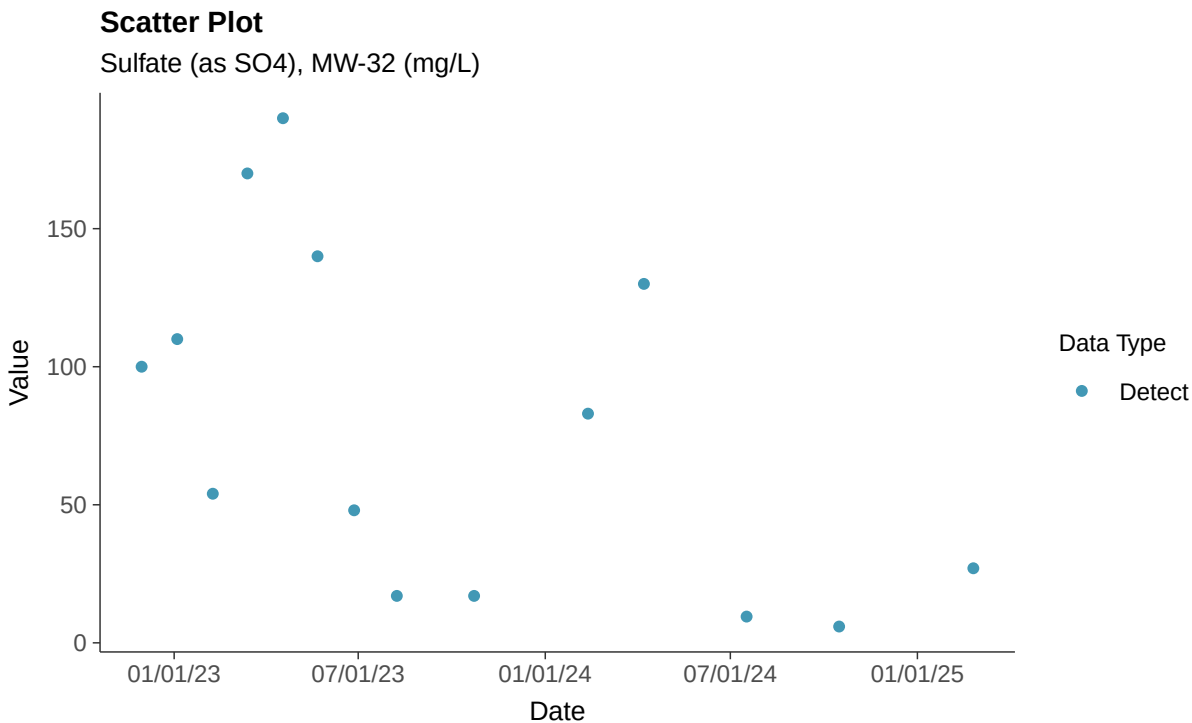


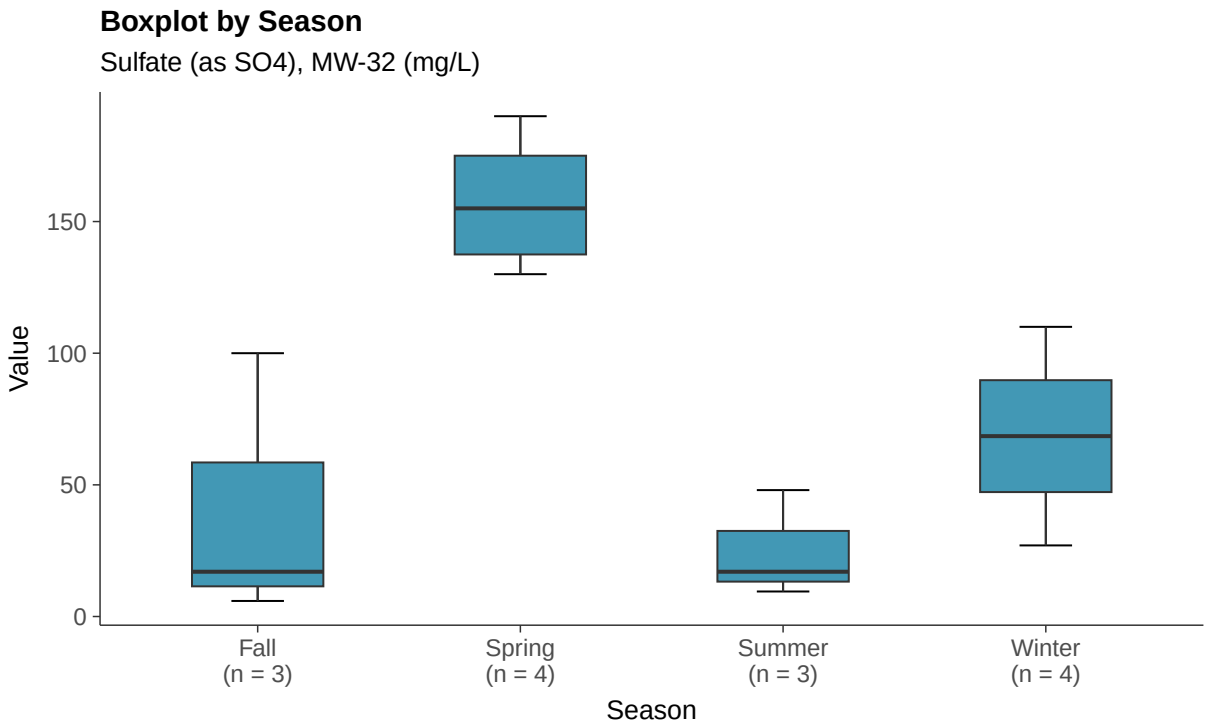
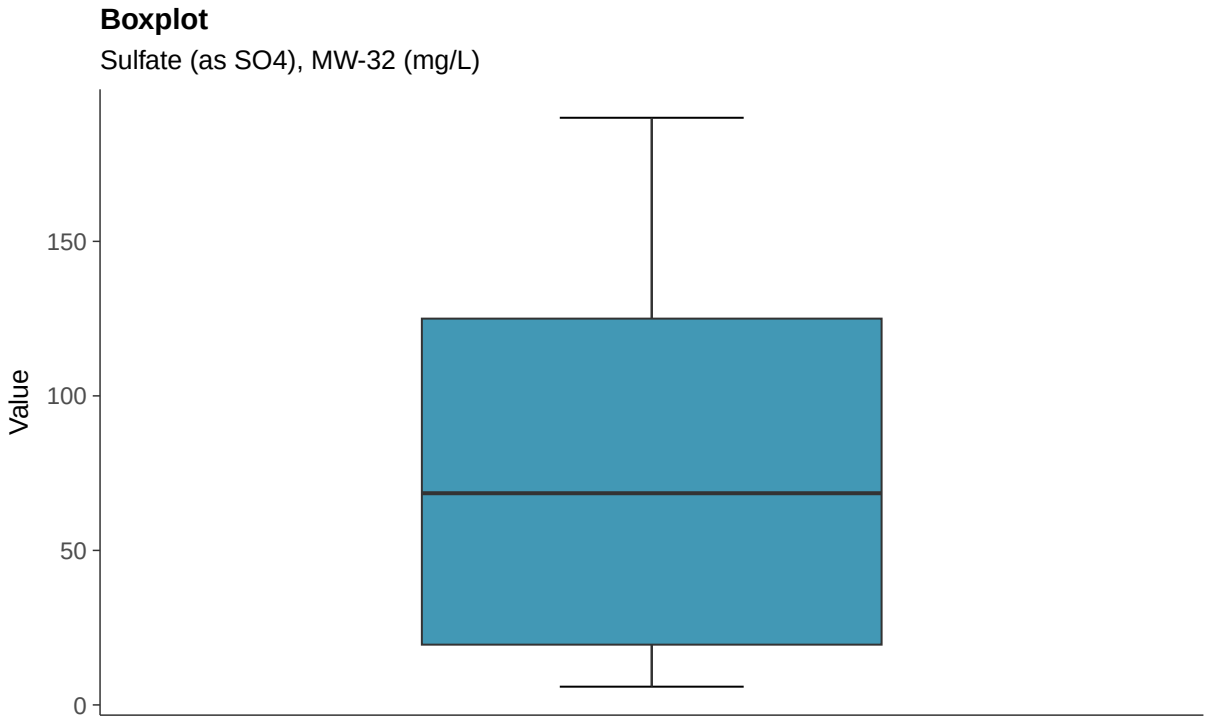


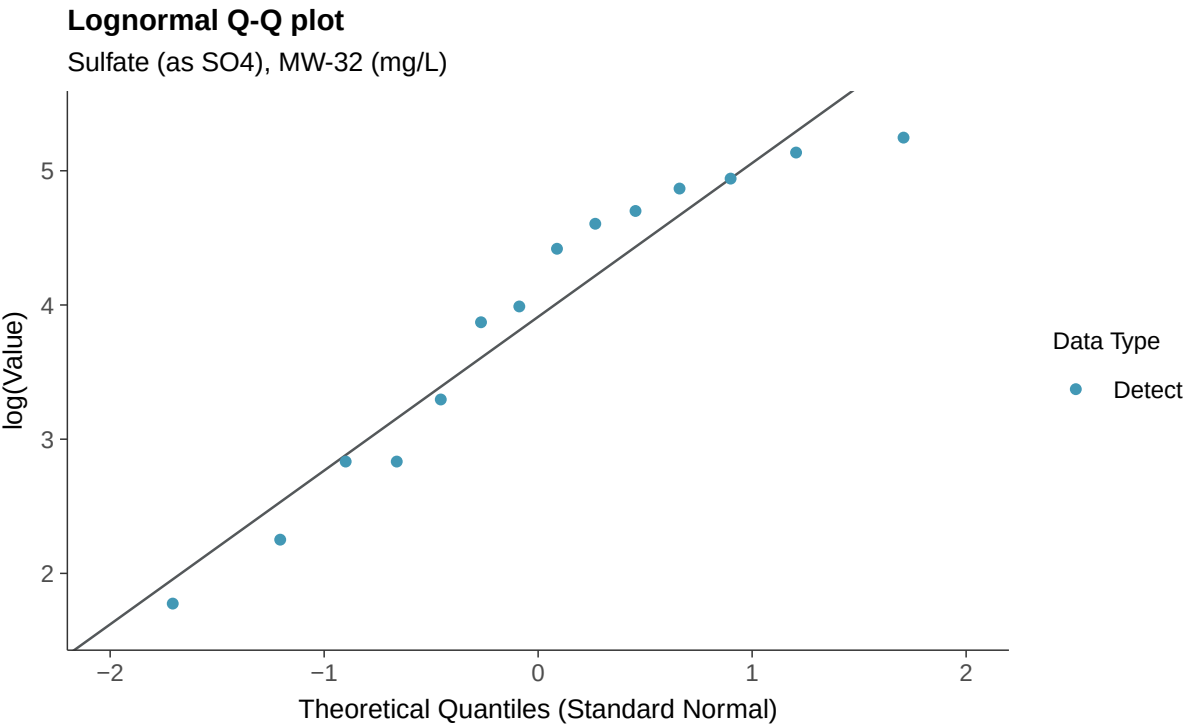
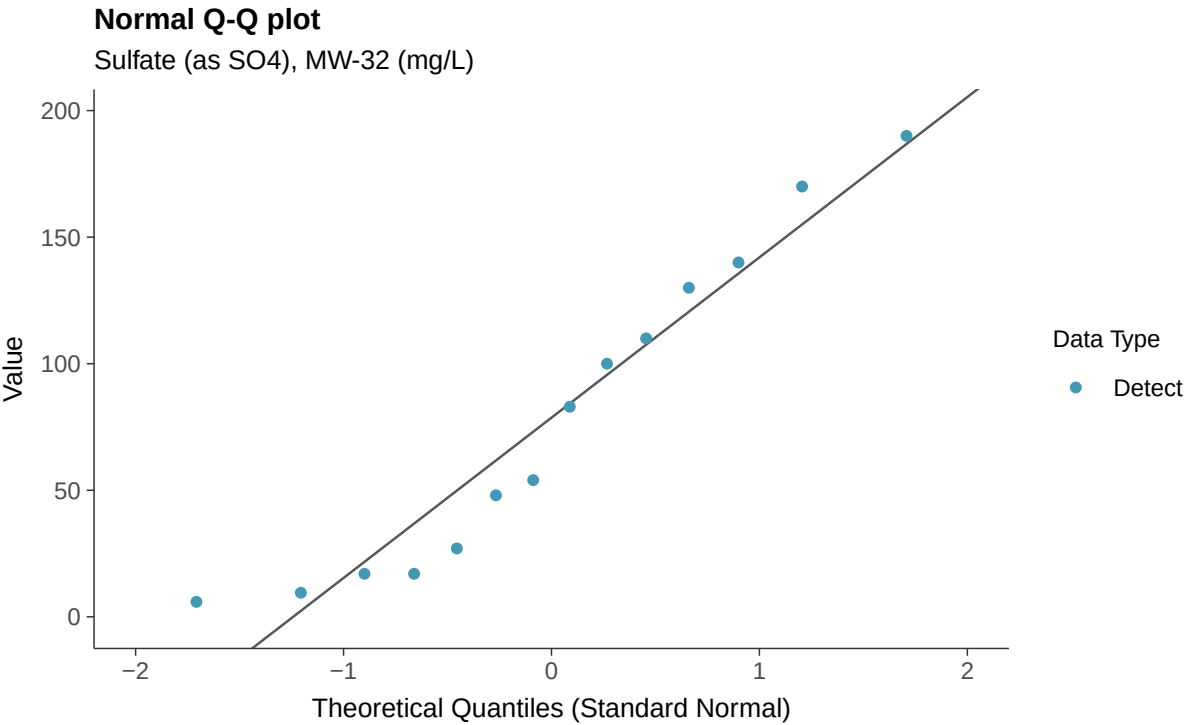


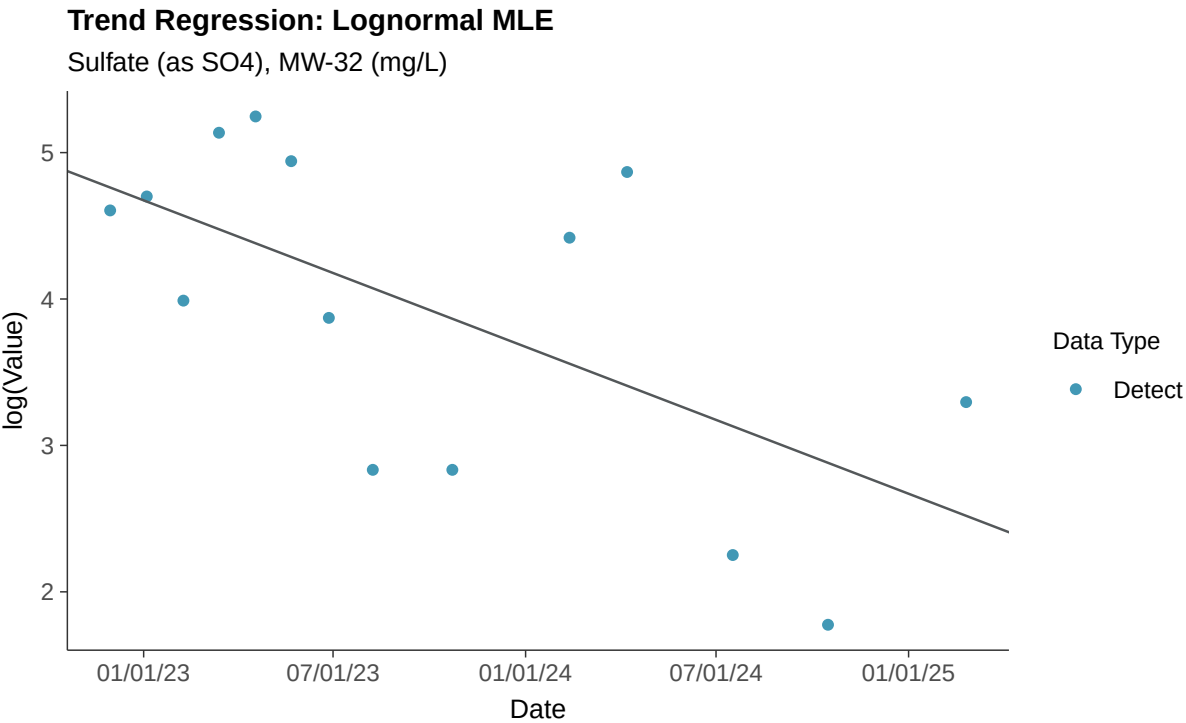
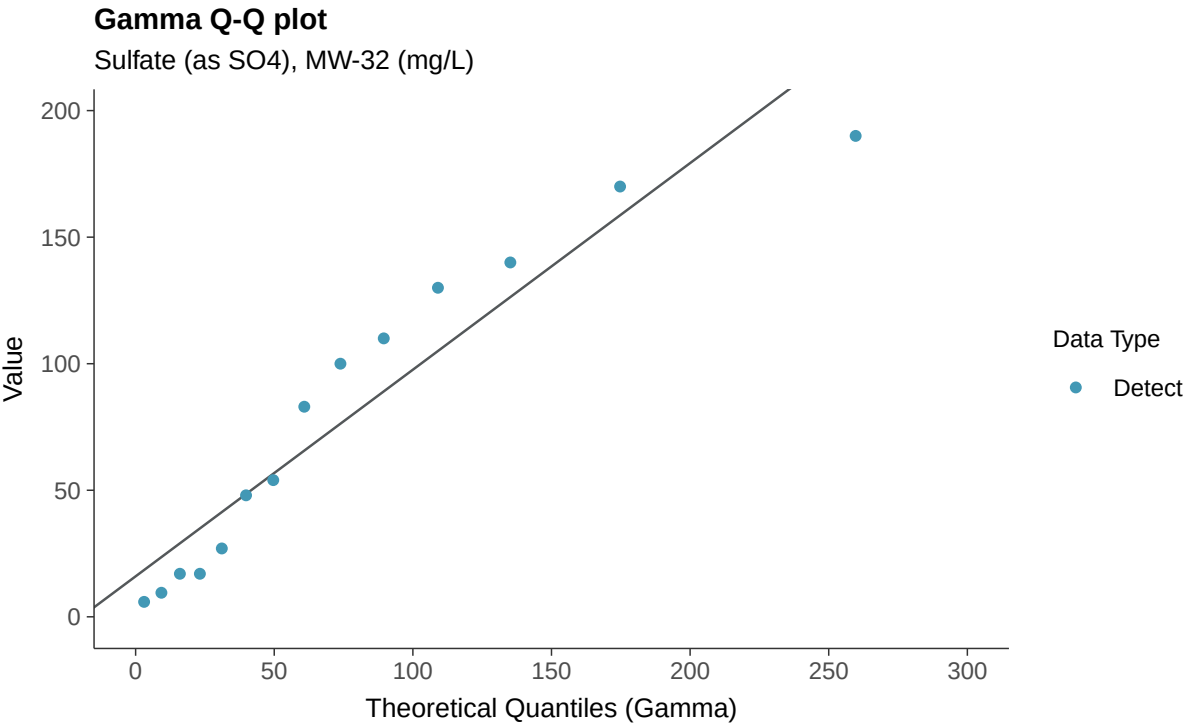
Appendix III: Sulfate (as SO₄), MW-32

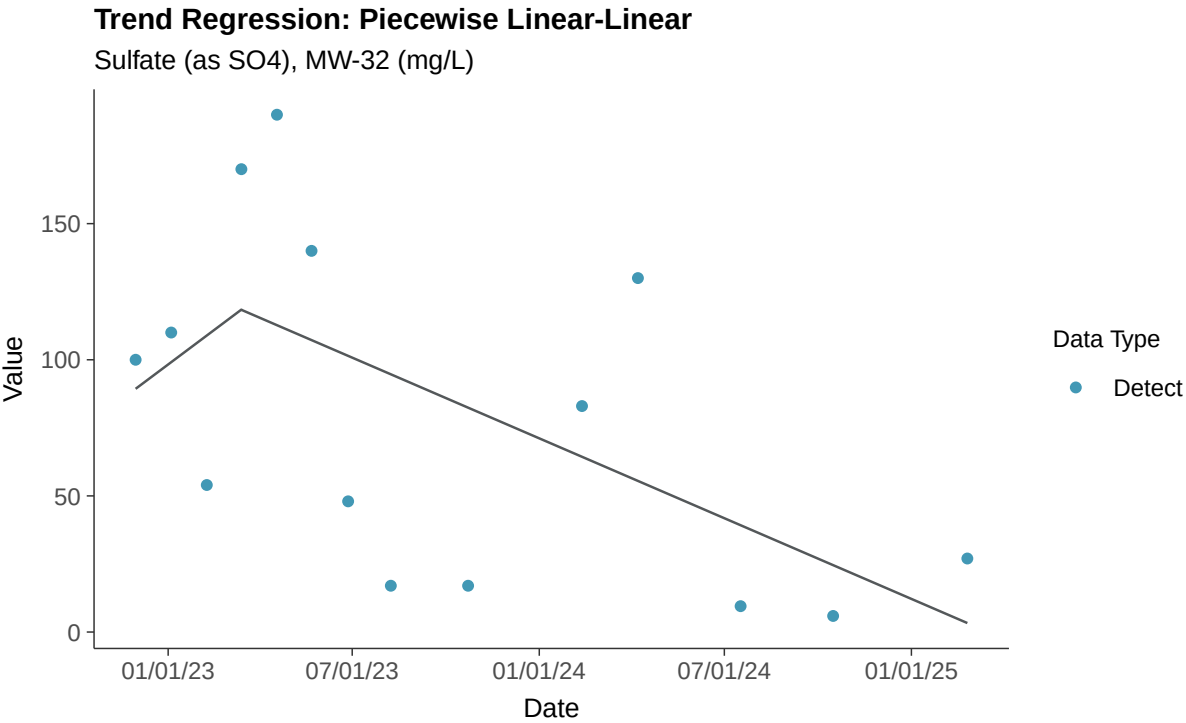
ID: 42_1_3_124







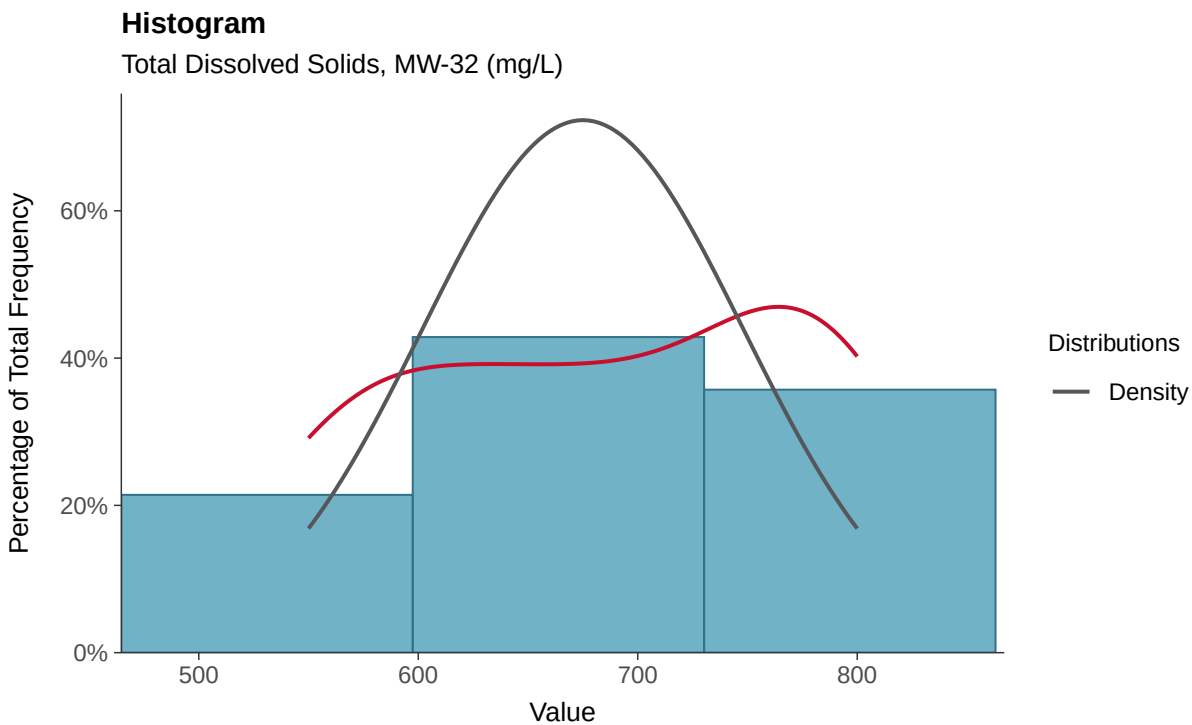
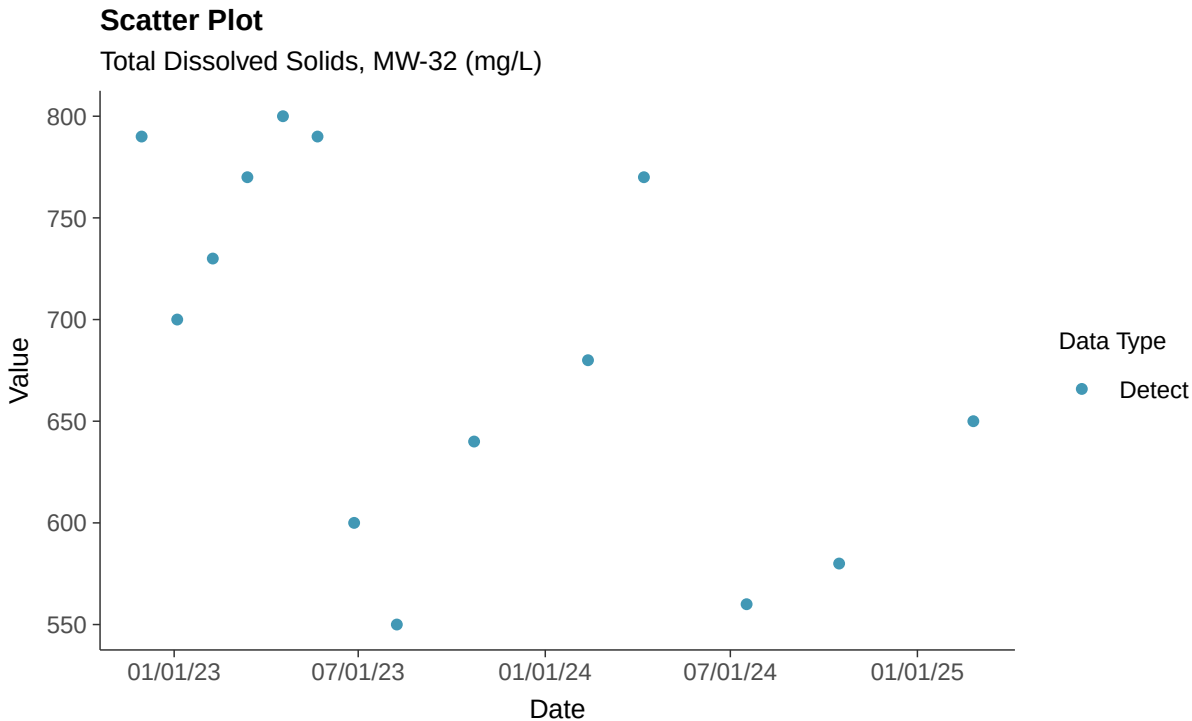






Appendix III: Total Dissolved Solids, MW-32

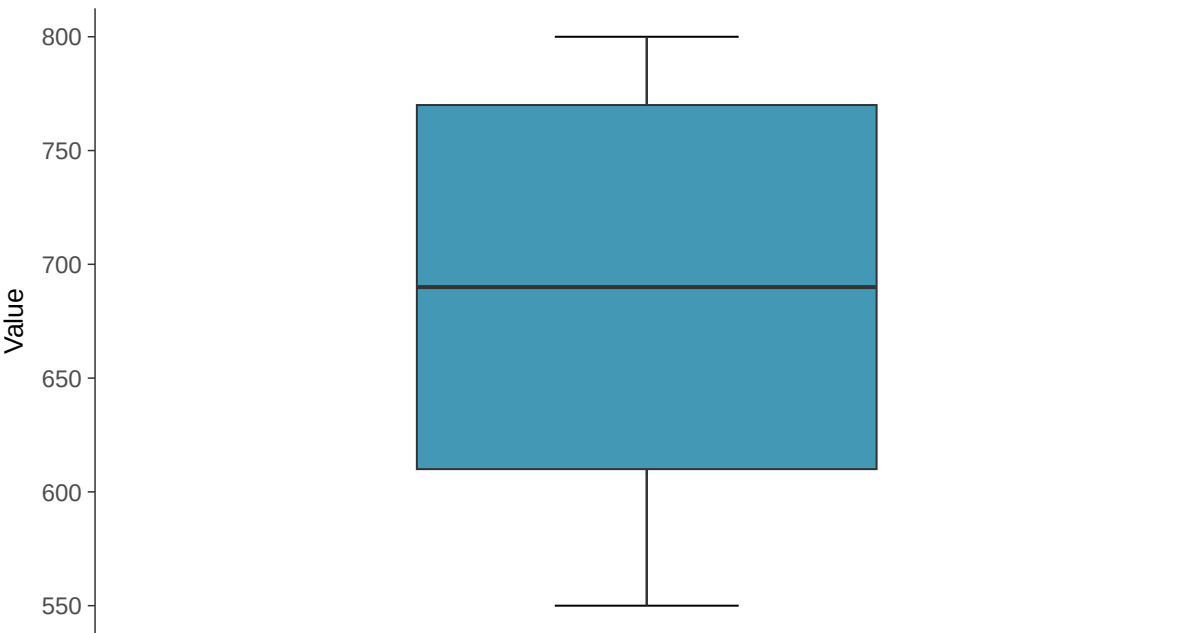
ID: 42_1_3_126





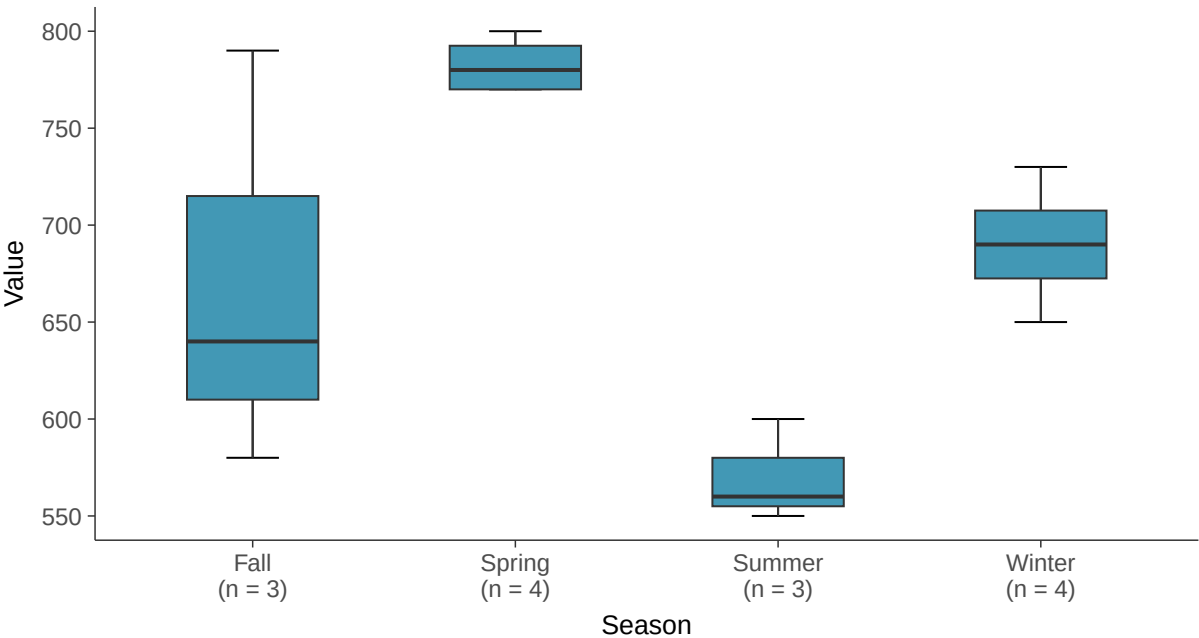
Boxplot

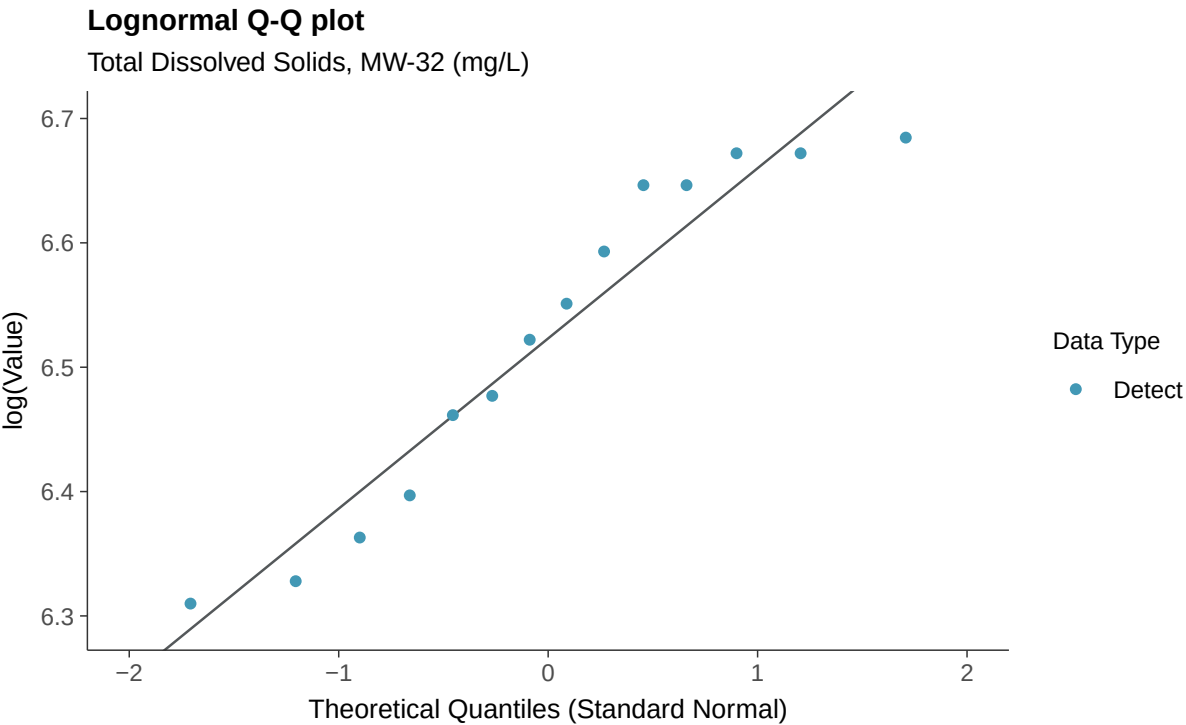
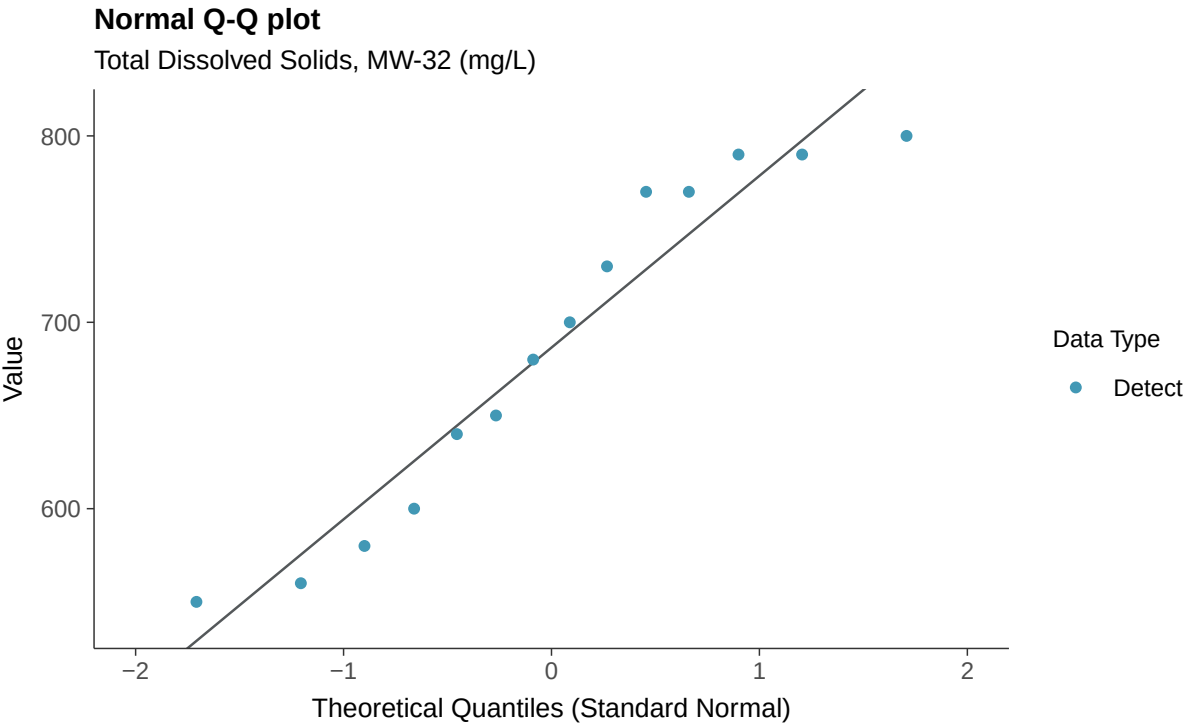
Total Dissolved Solids, MW-32 (mg/L)

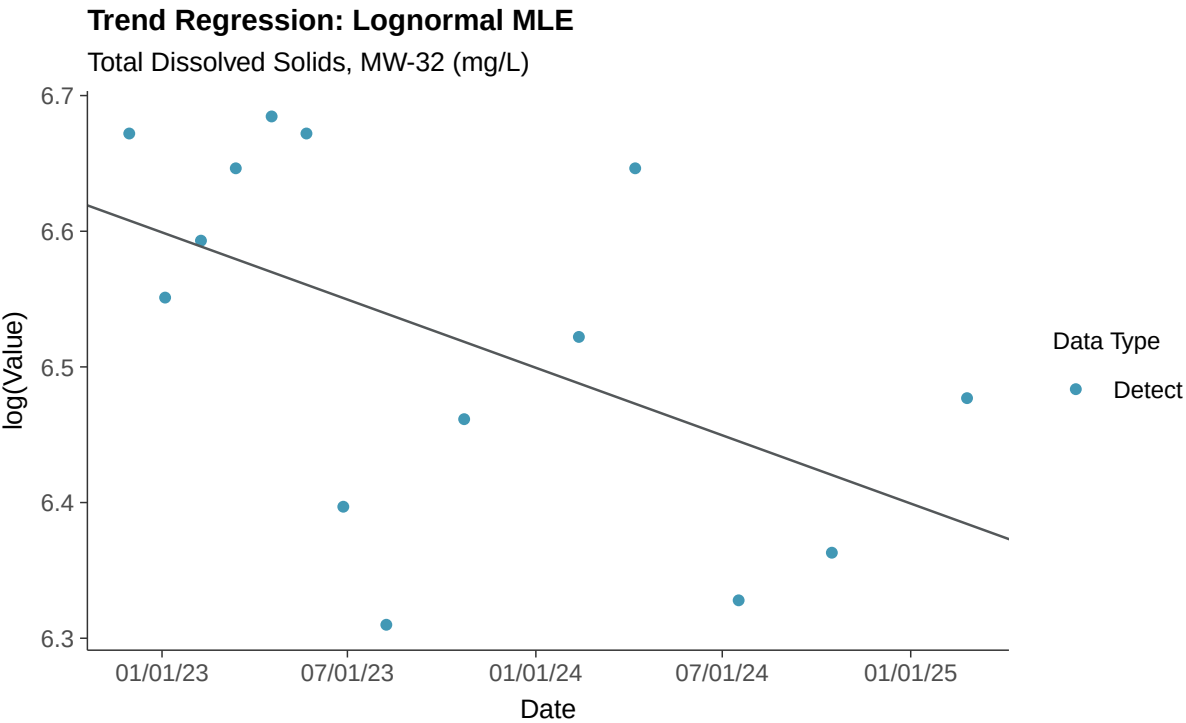
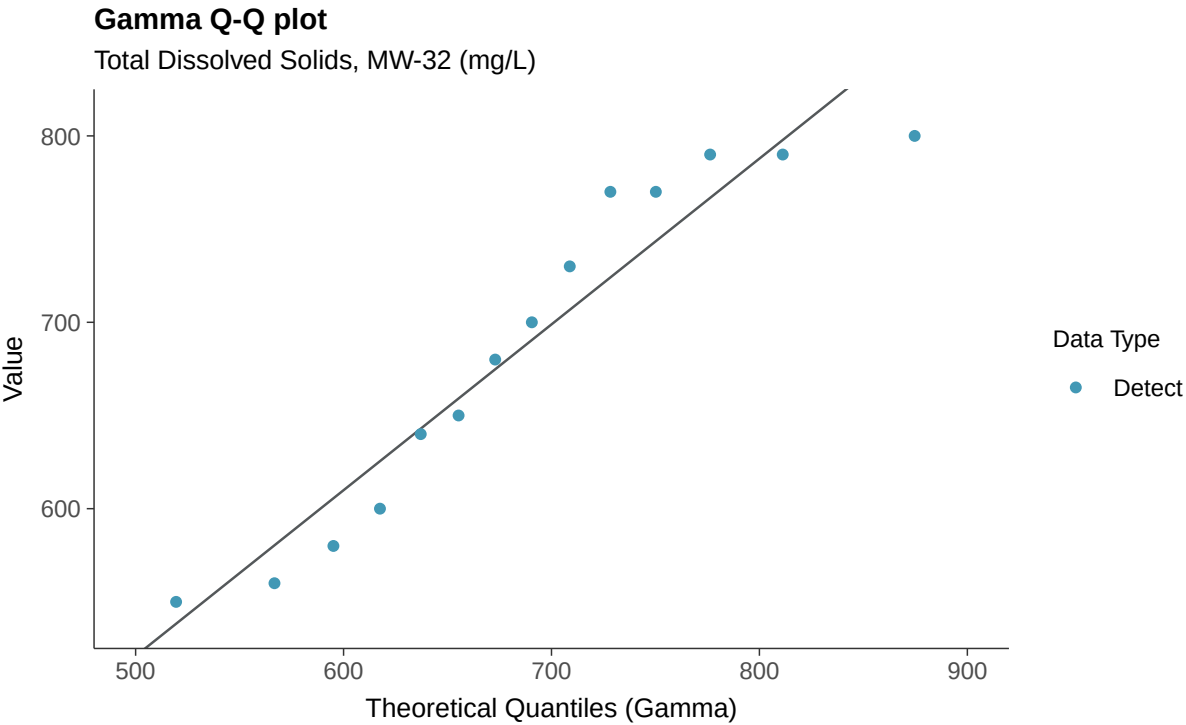


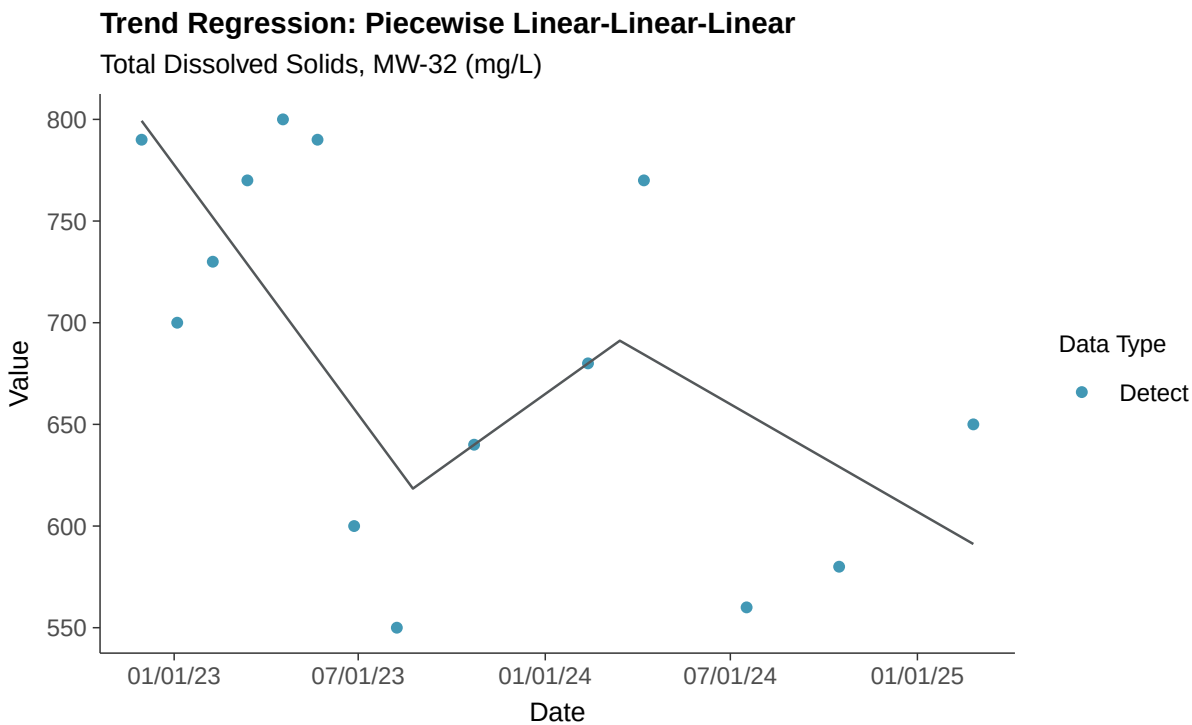
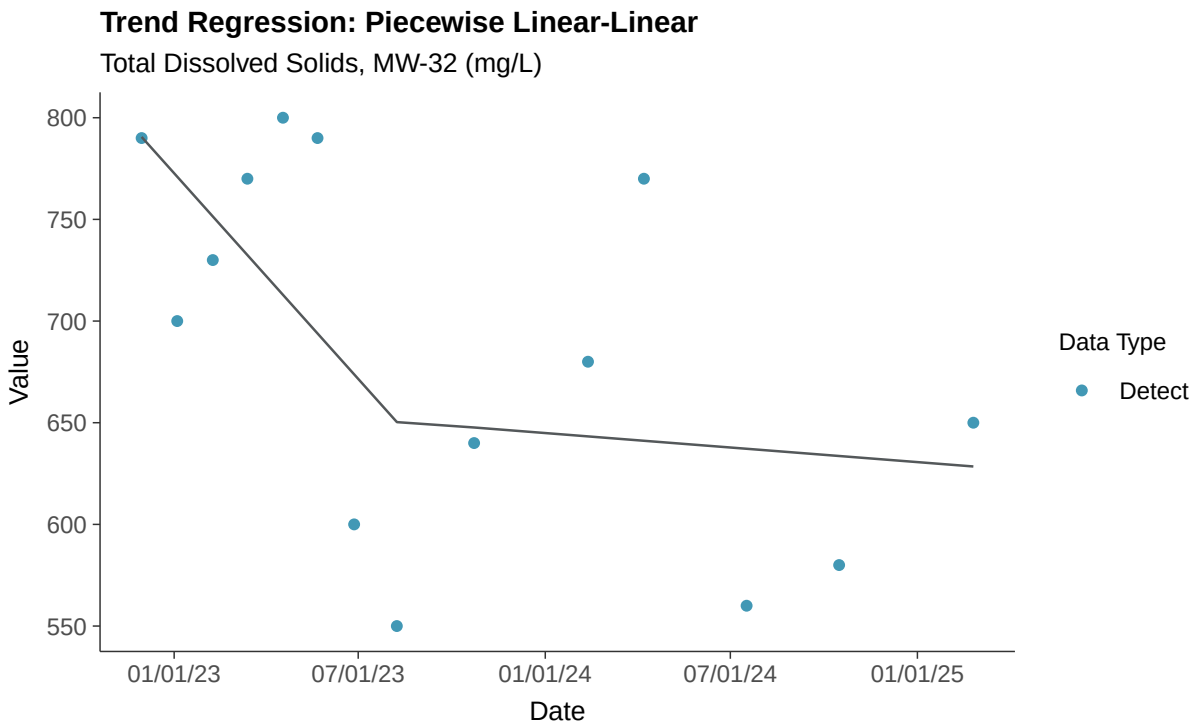
Boxplot by Season

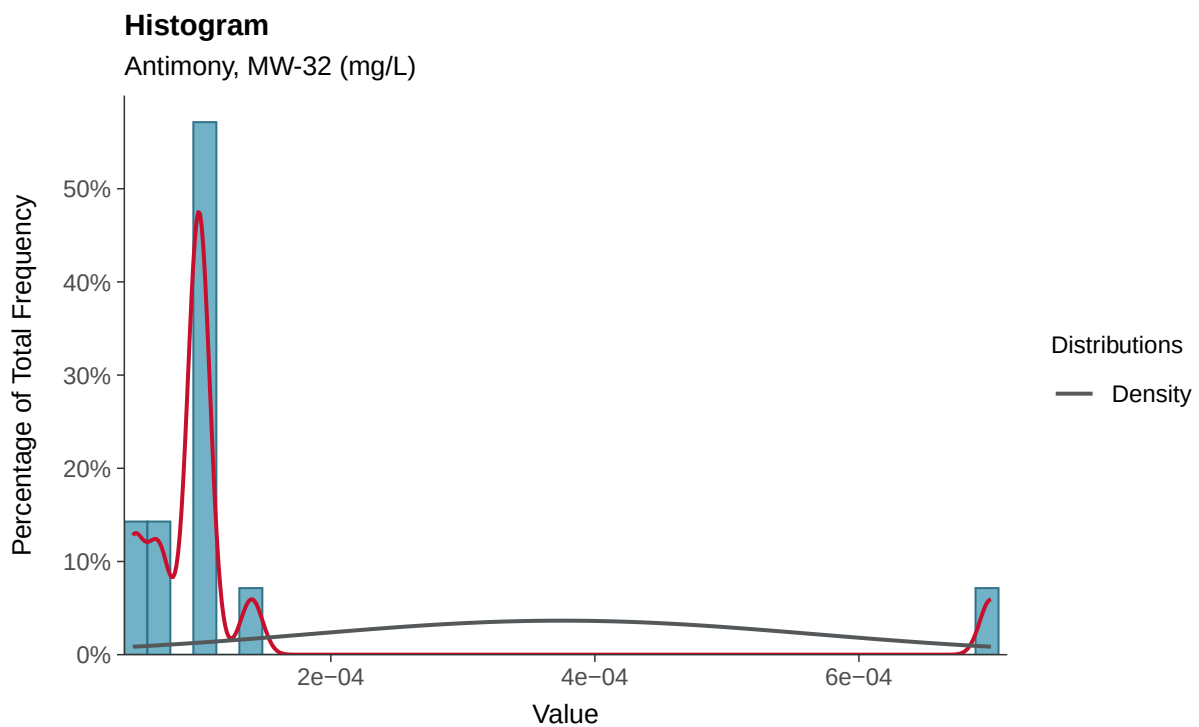
Total Dissolved Solids, MW-32 (mg/L)

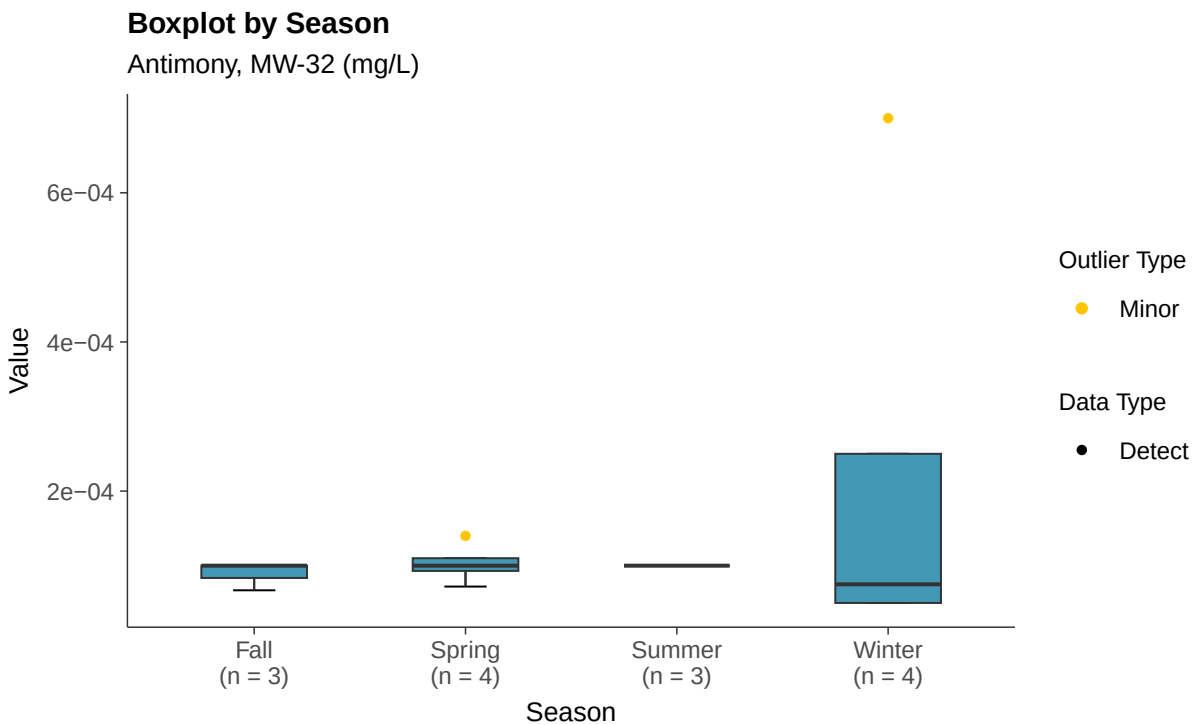
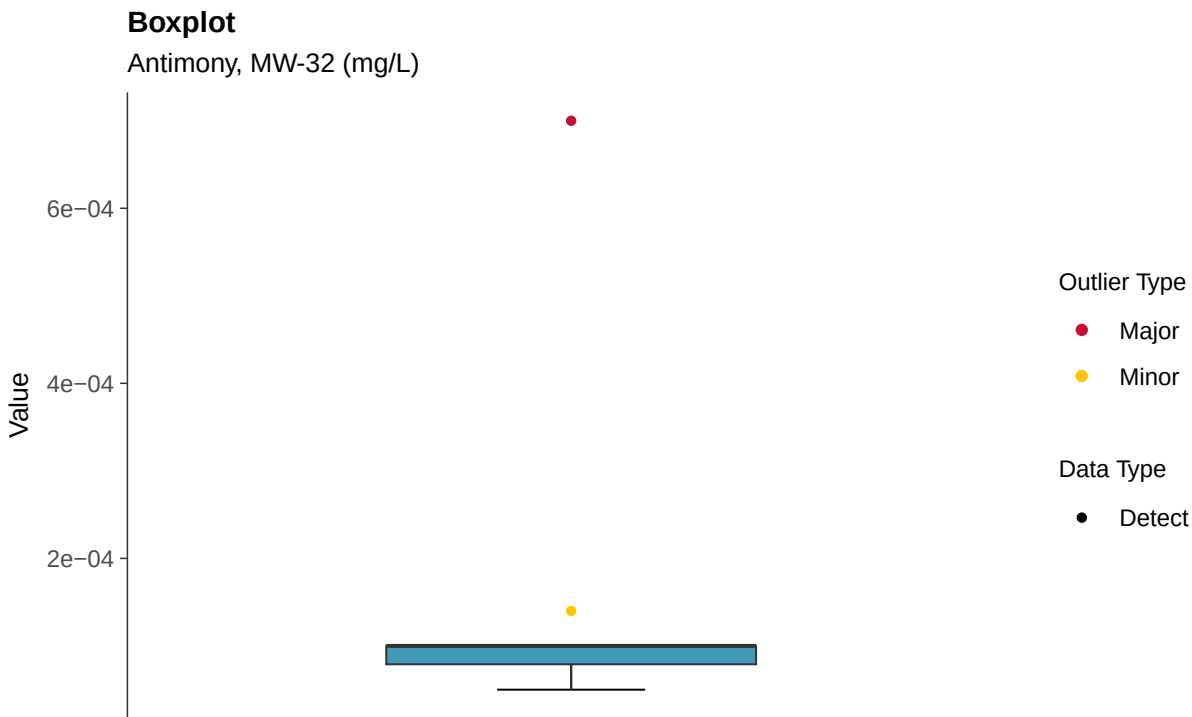








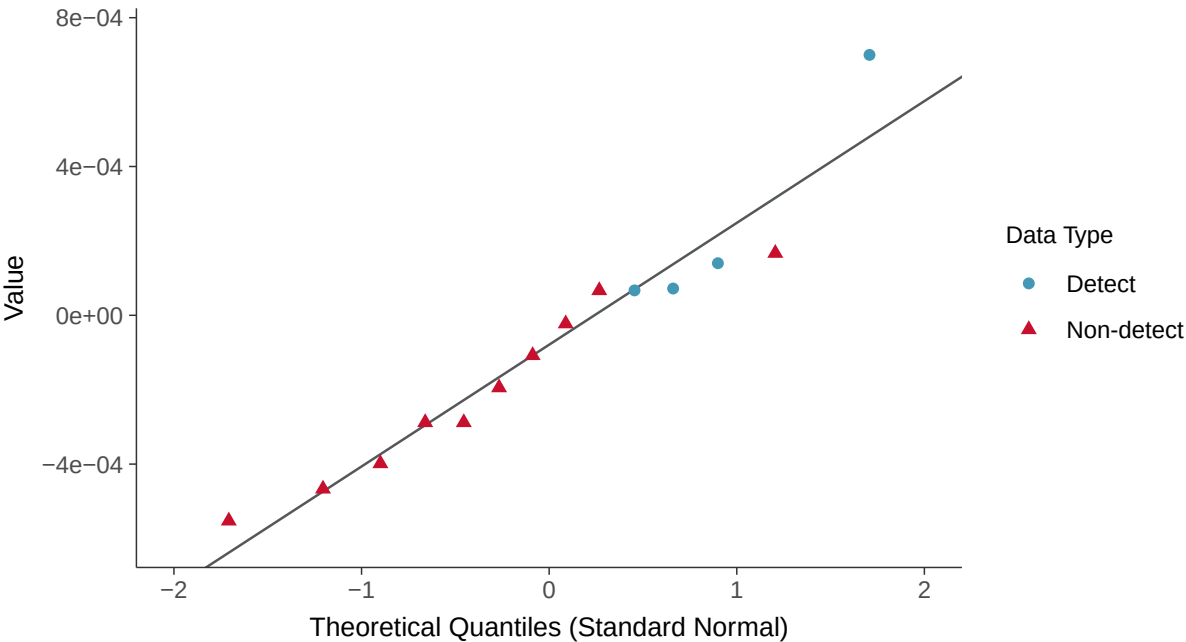






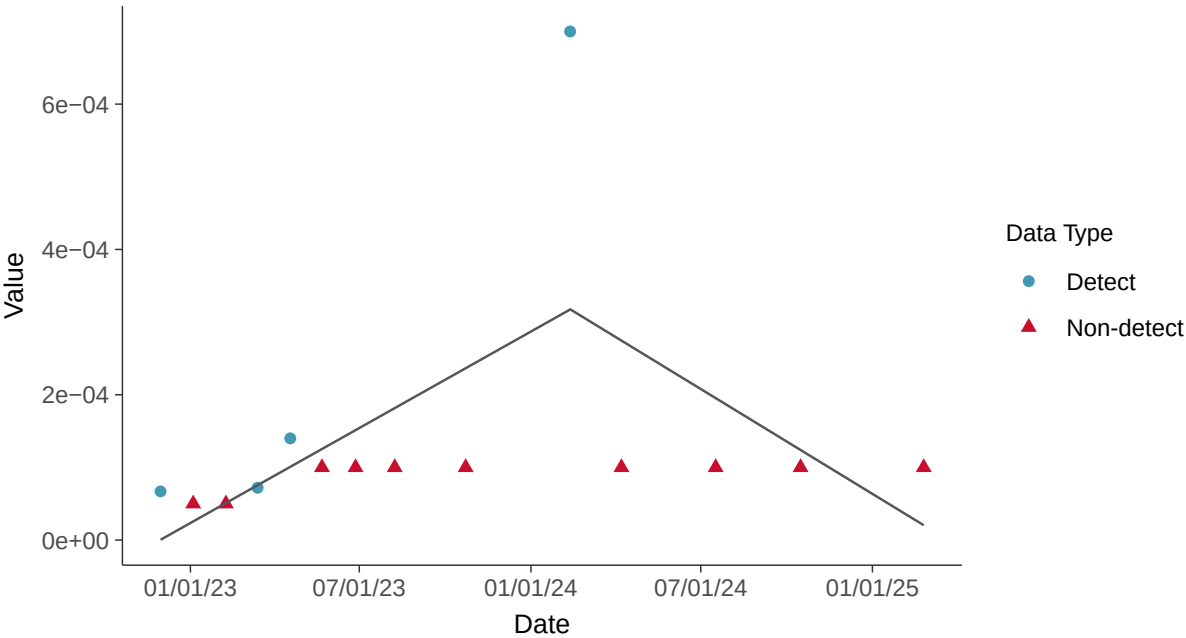
Normal Q-Q plot using ROS Imputed Estimates

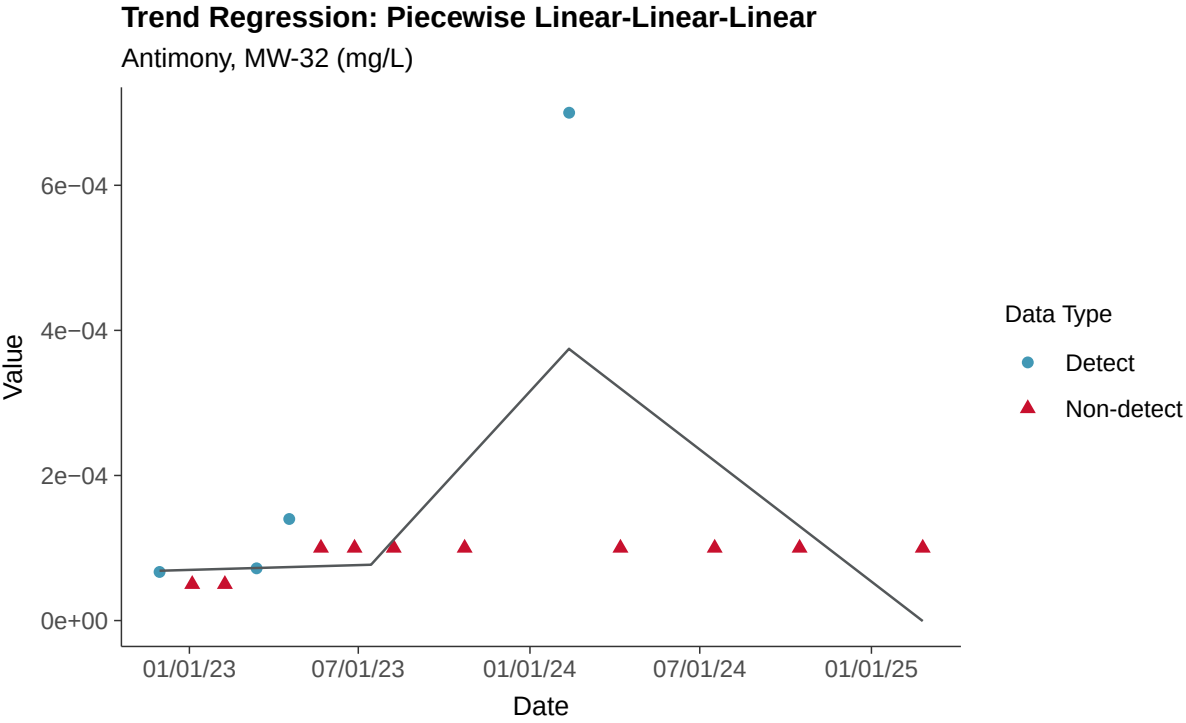
Antimony, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-32 (mg/L)

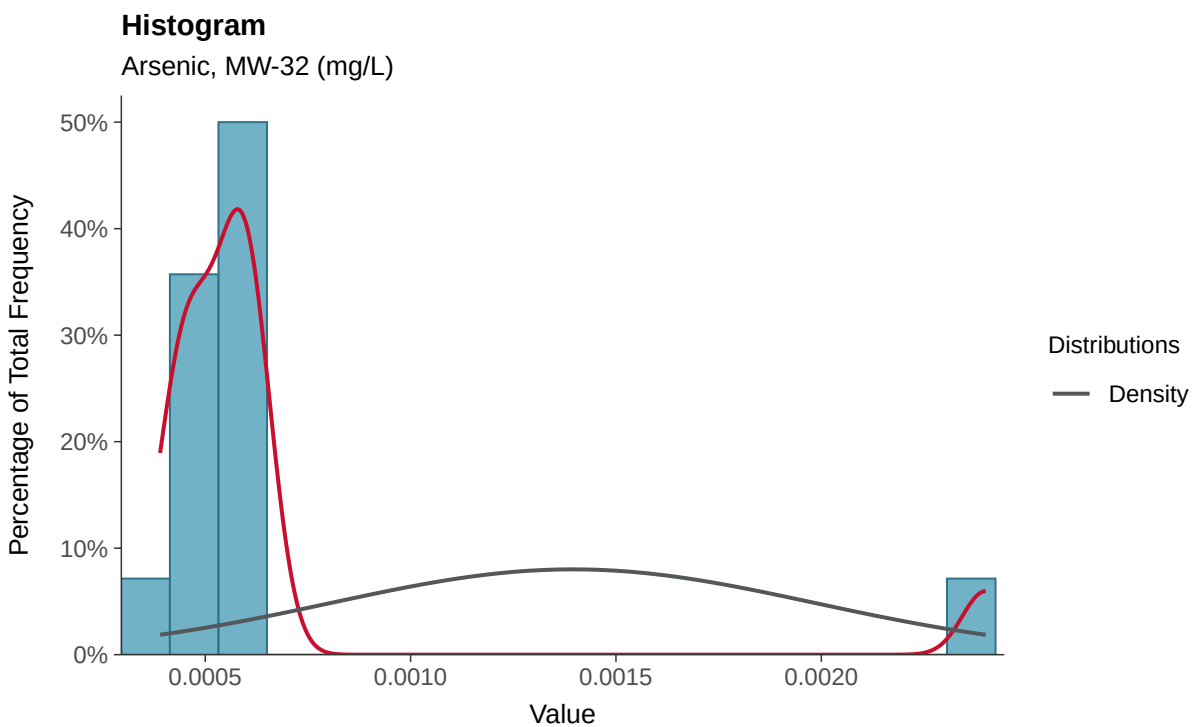
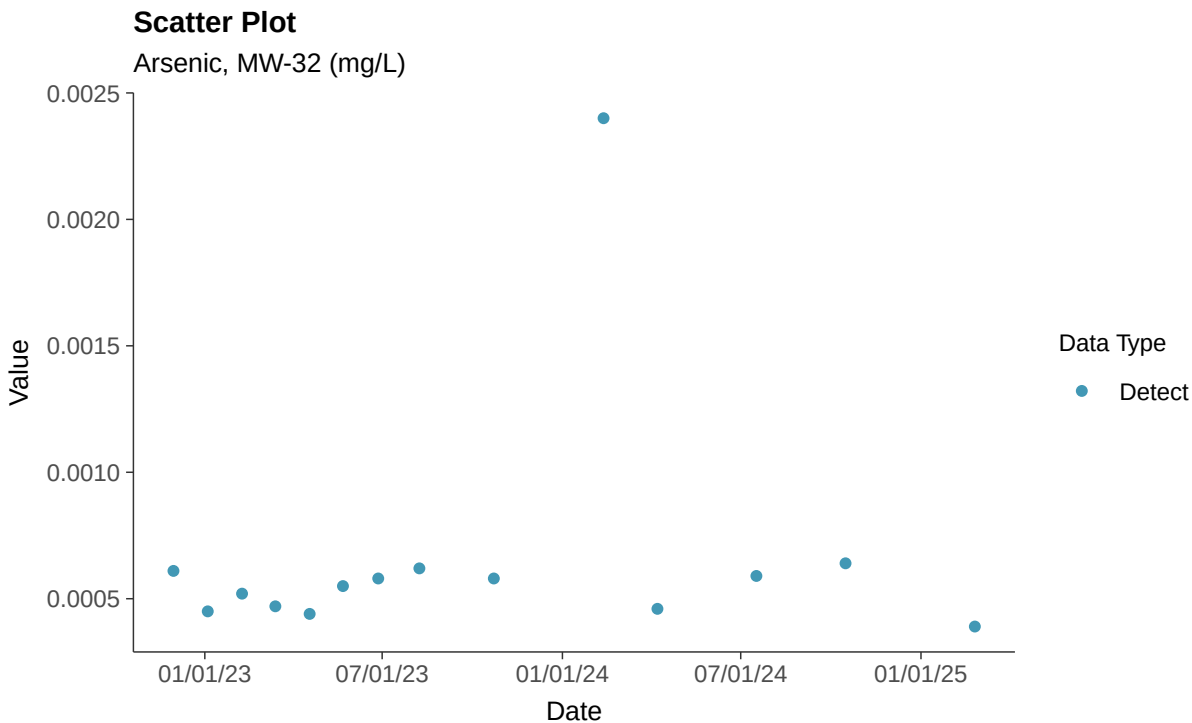


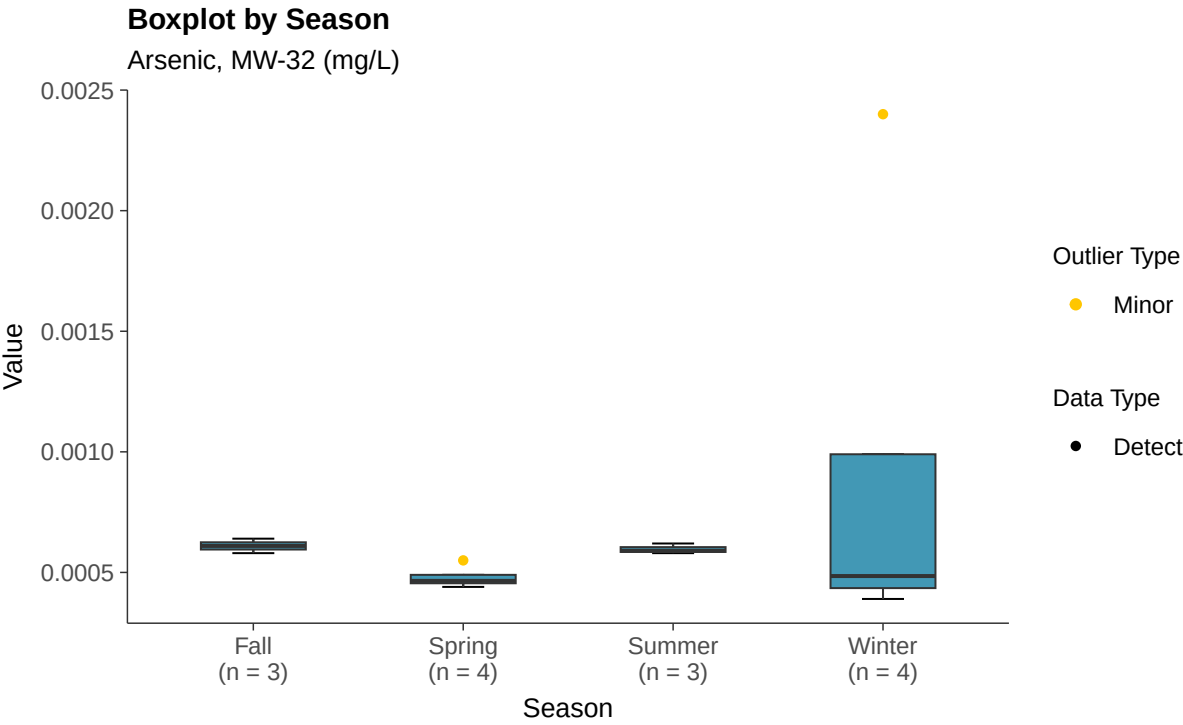
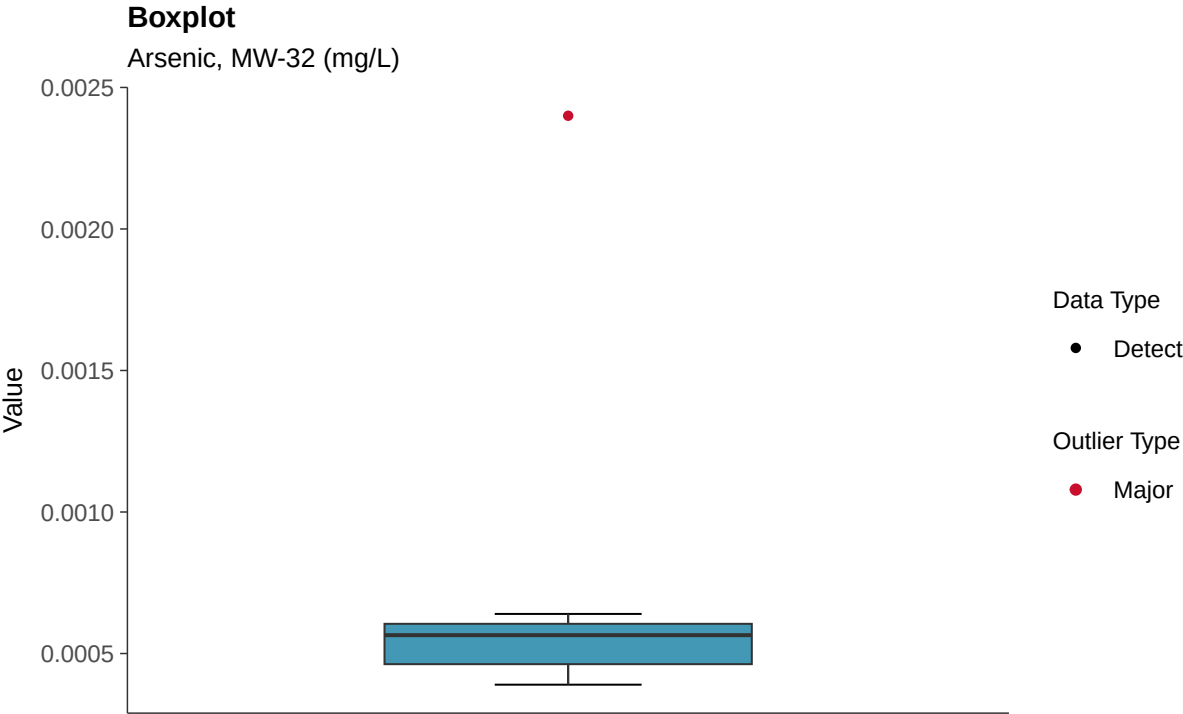


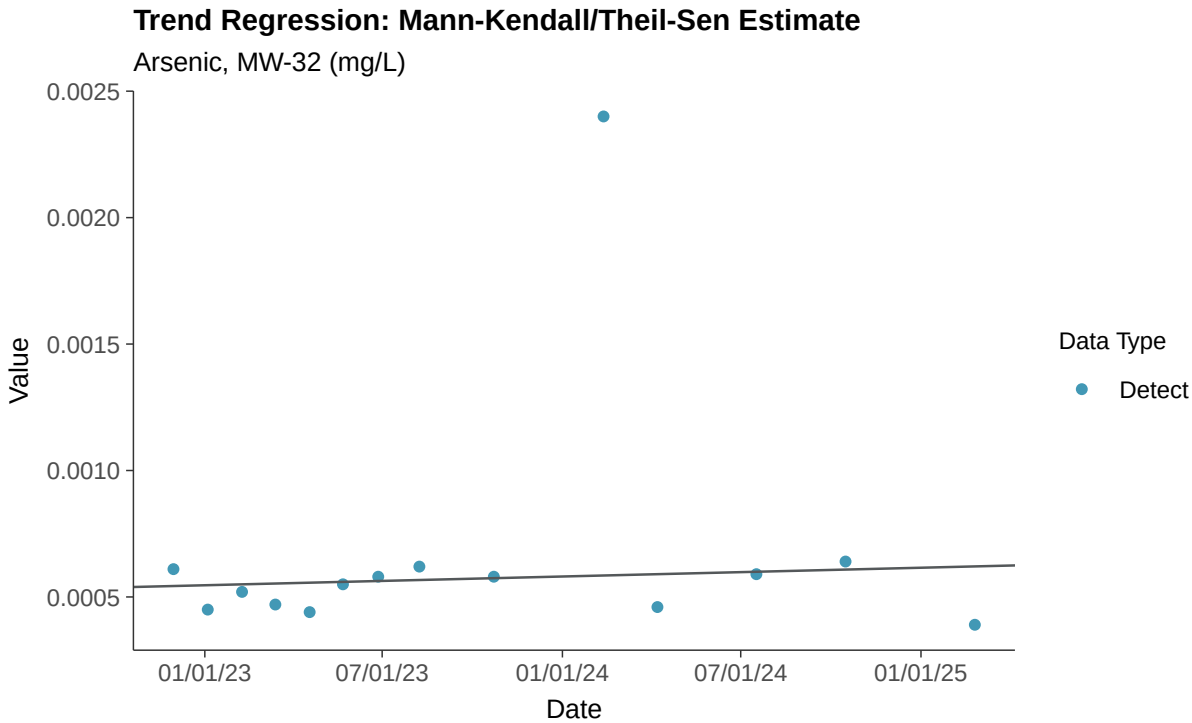
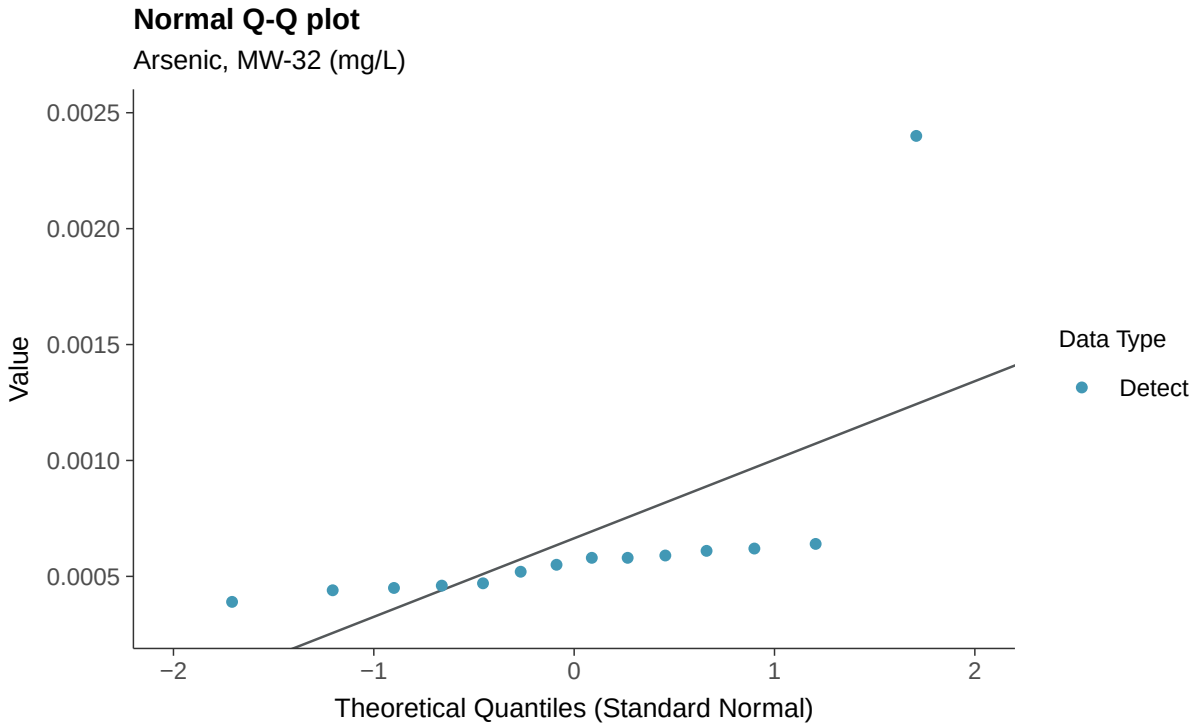


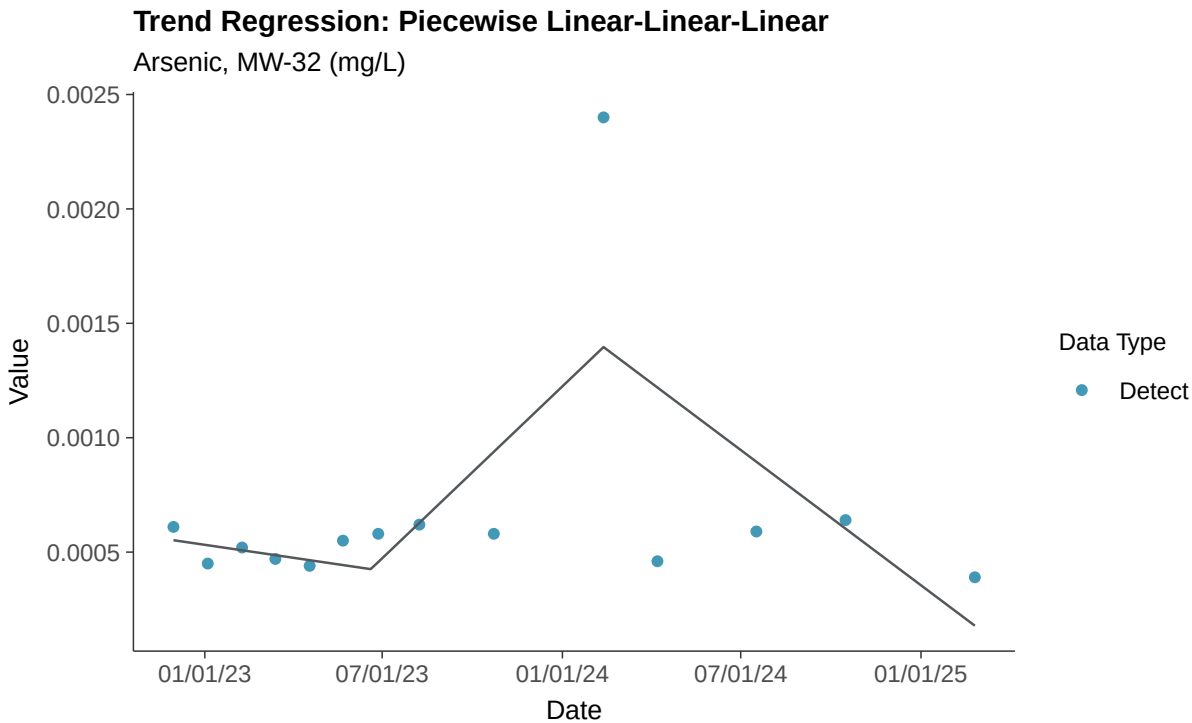
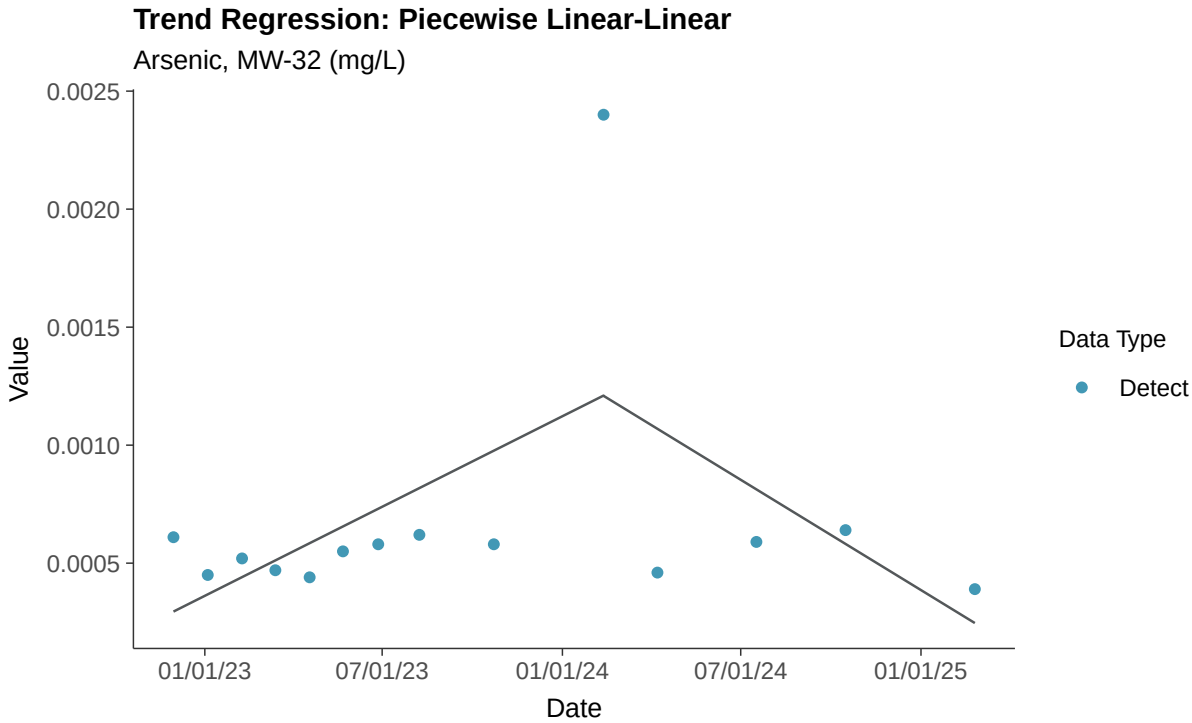
Appendix IV: Arsenic, MW-32

ID: 42_1_4_102





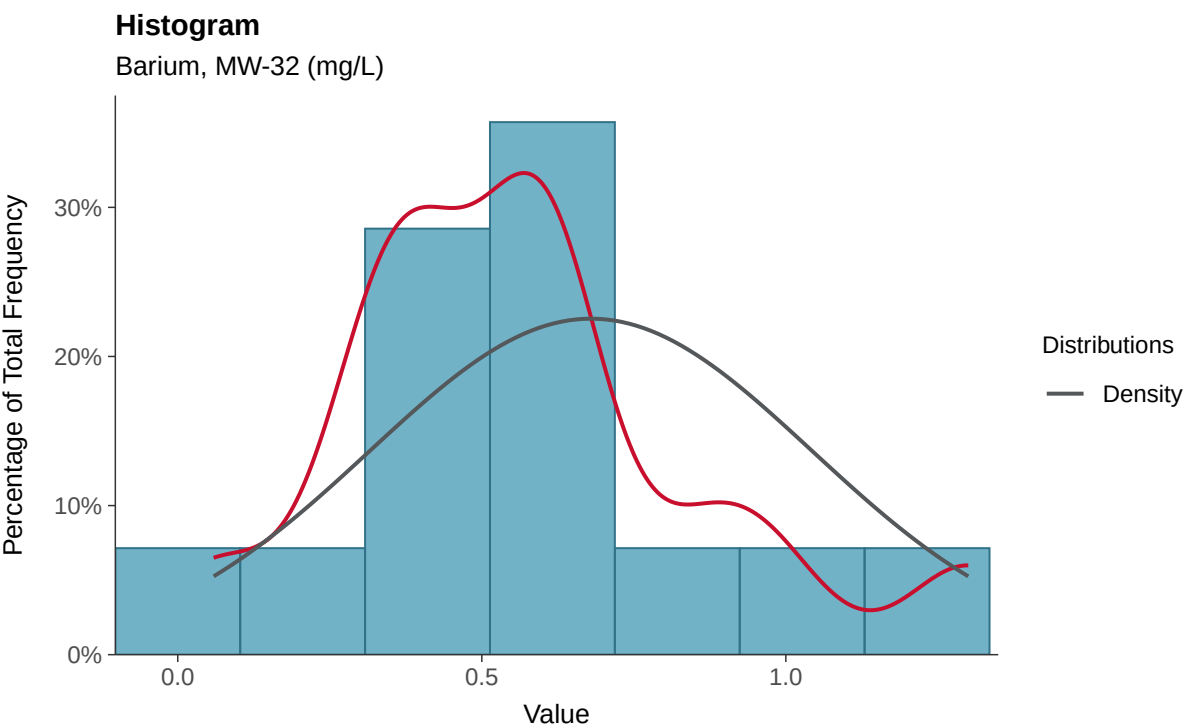
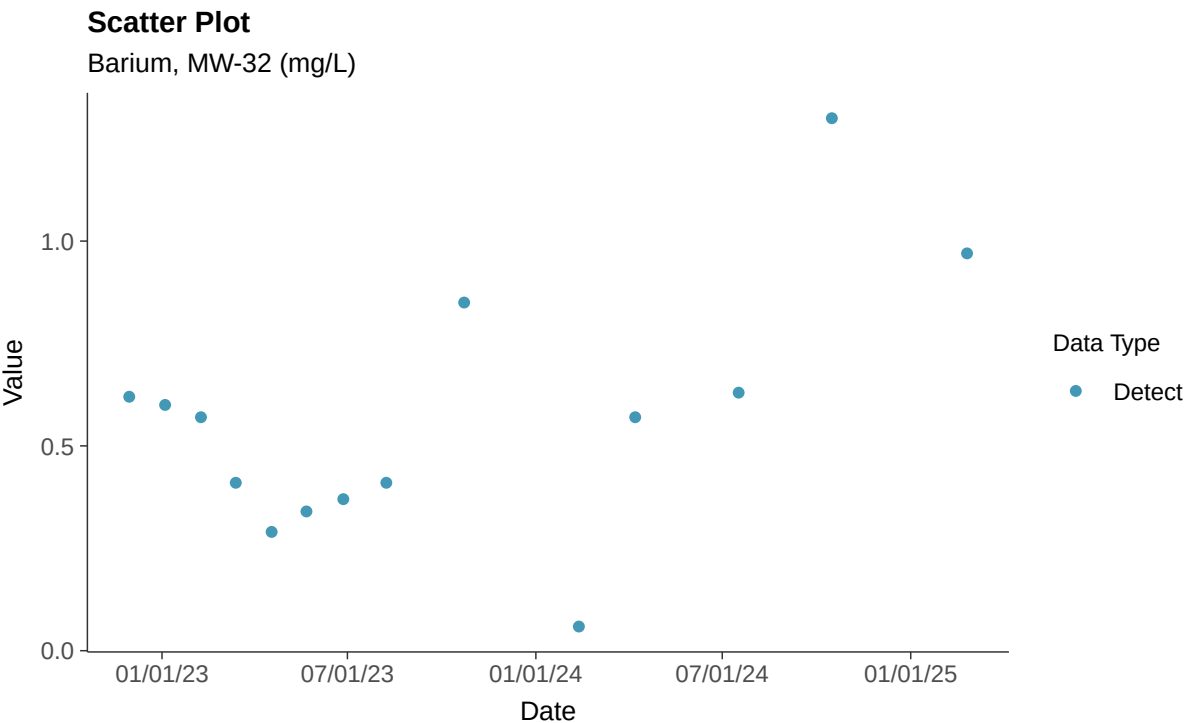


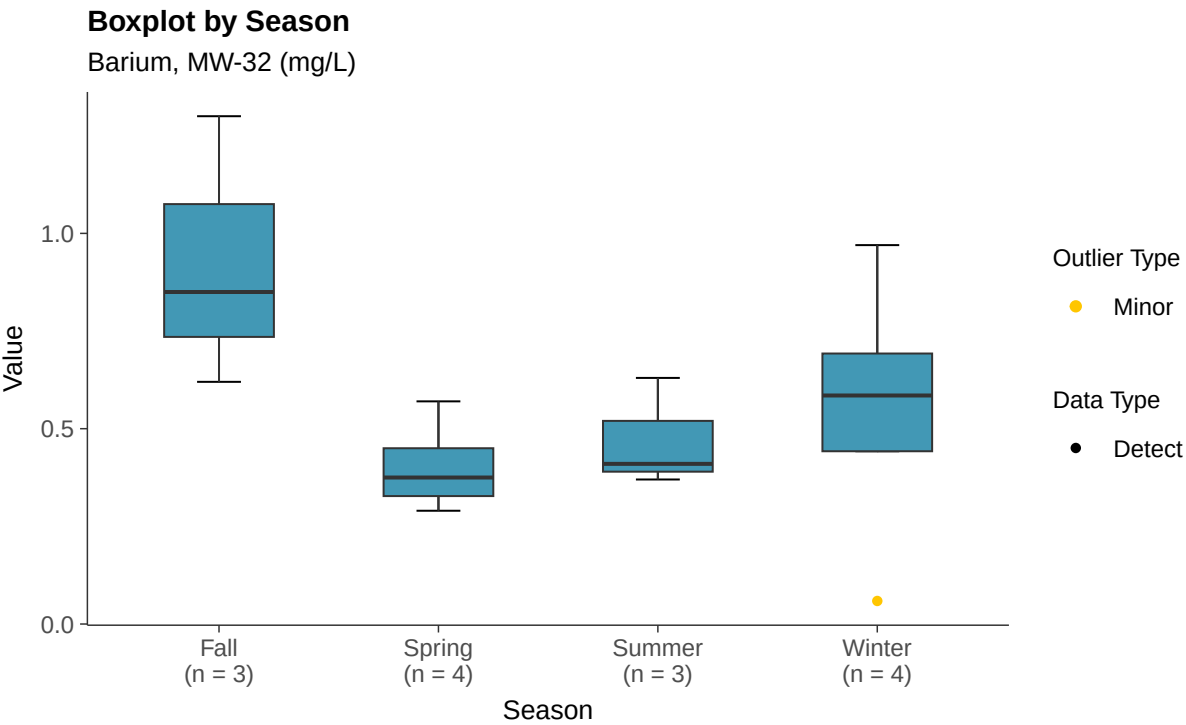
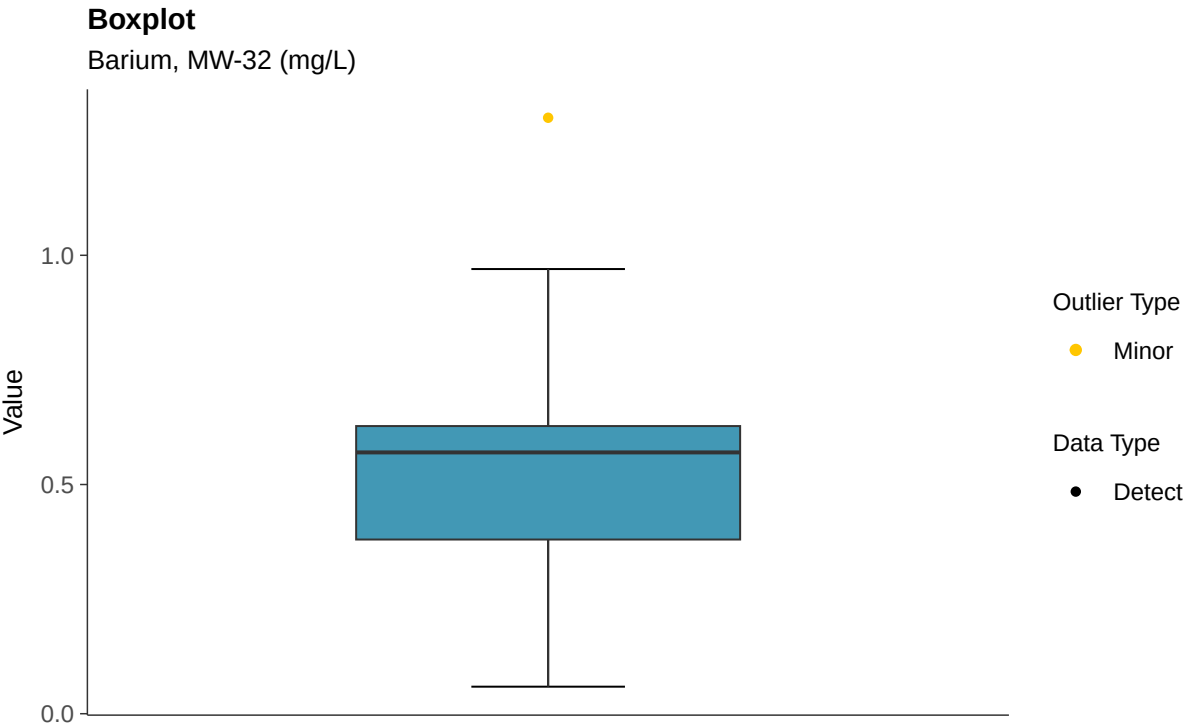


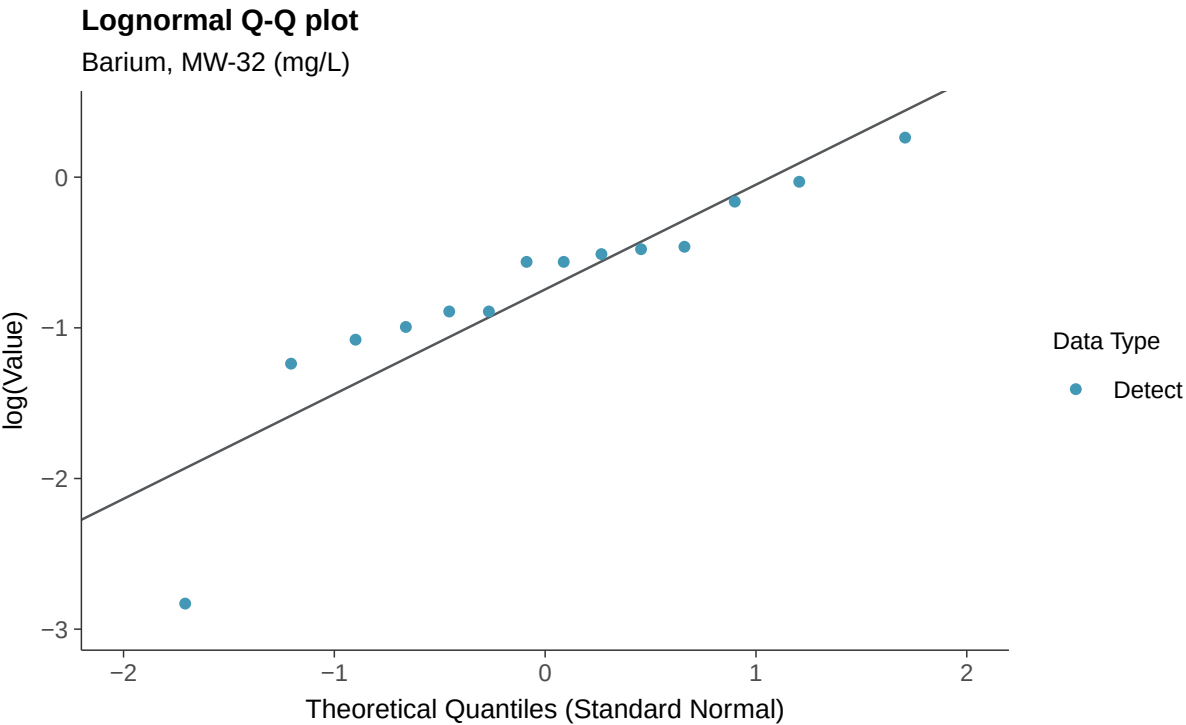
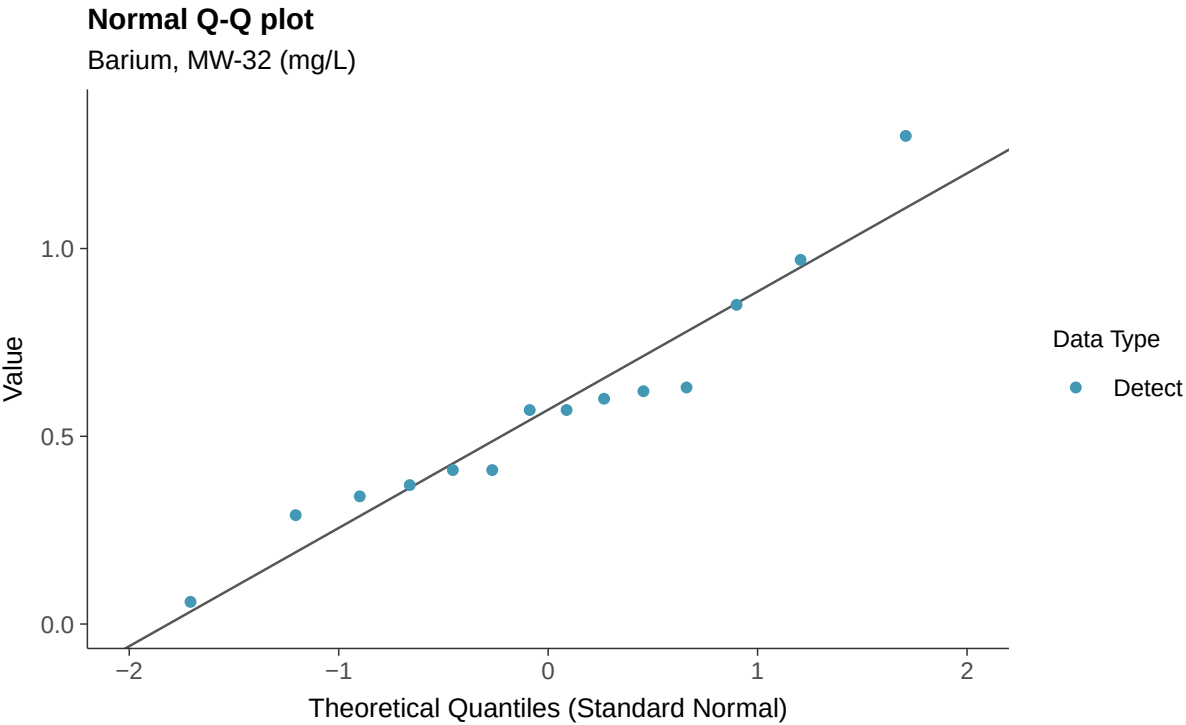


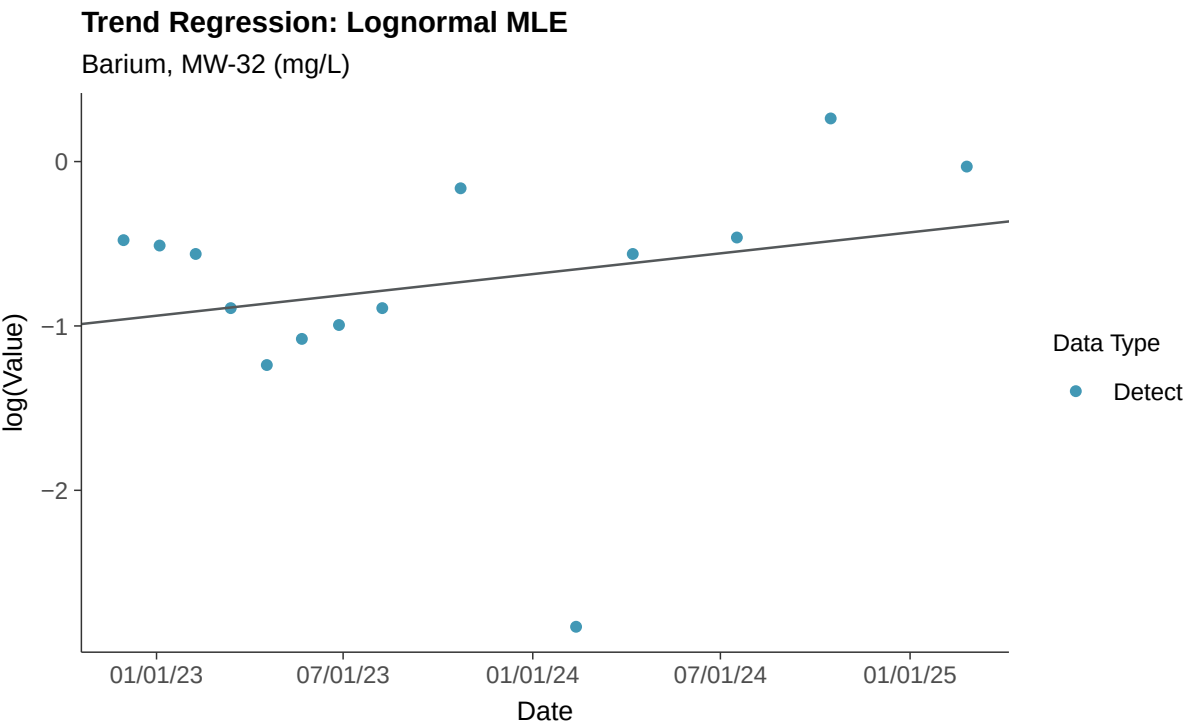
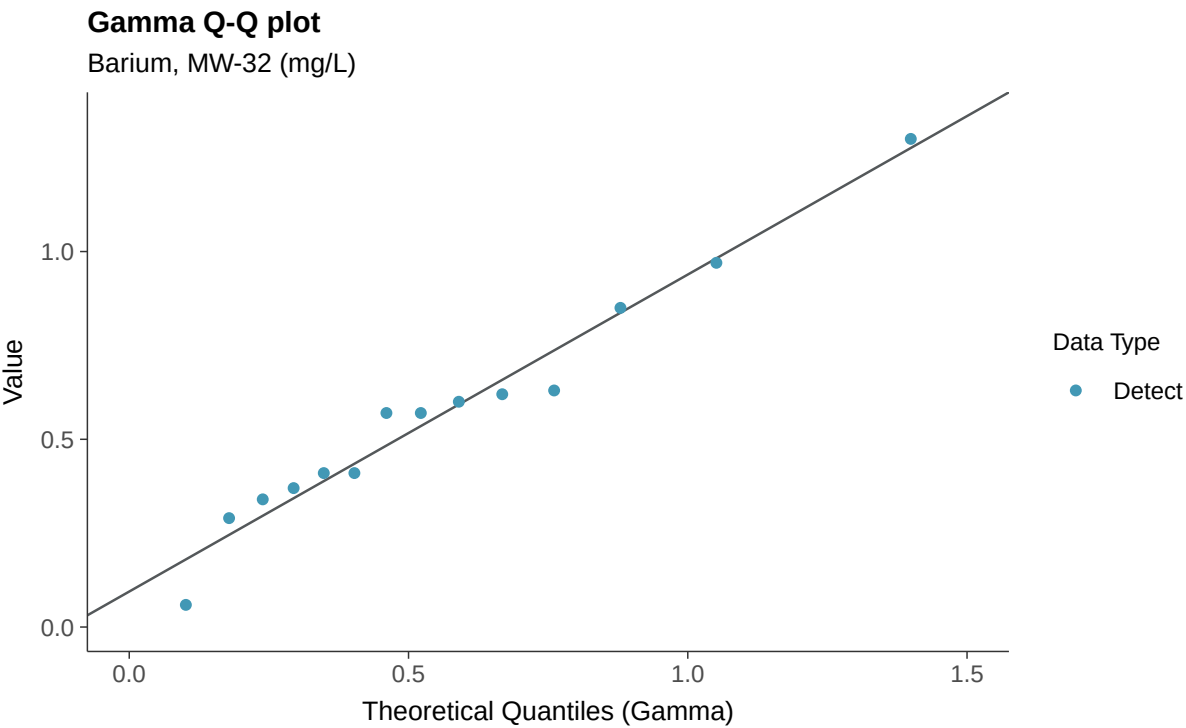
Appendix IV: Barium, MW-32

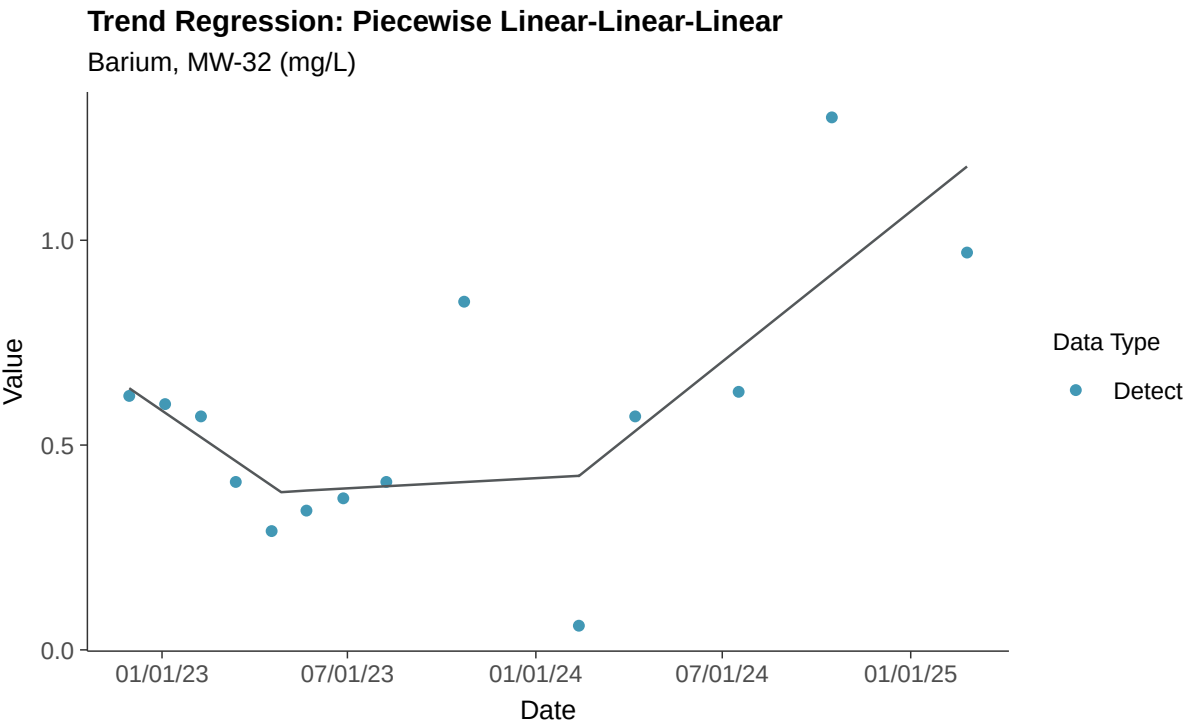
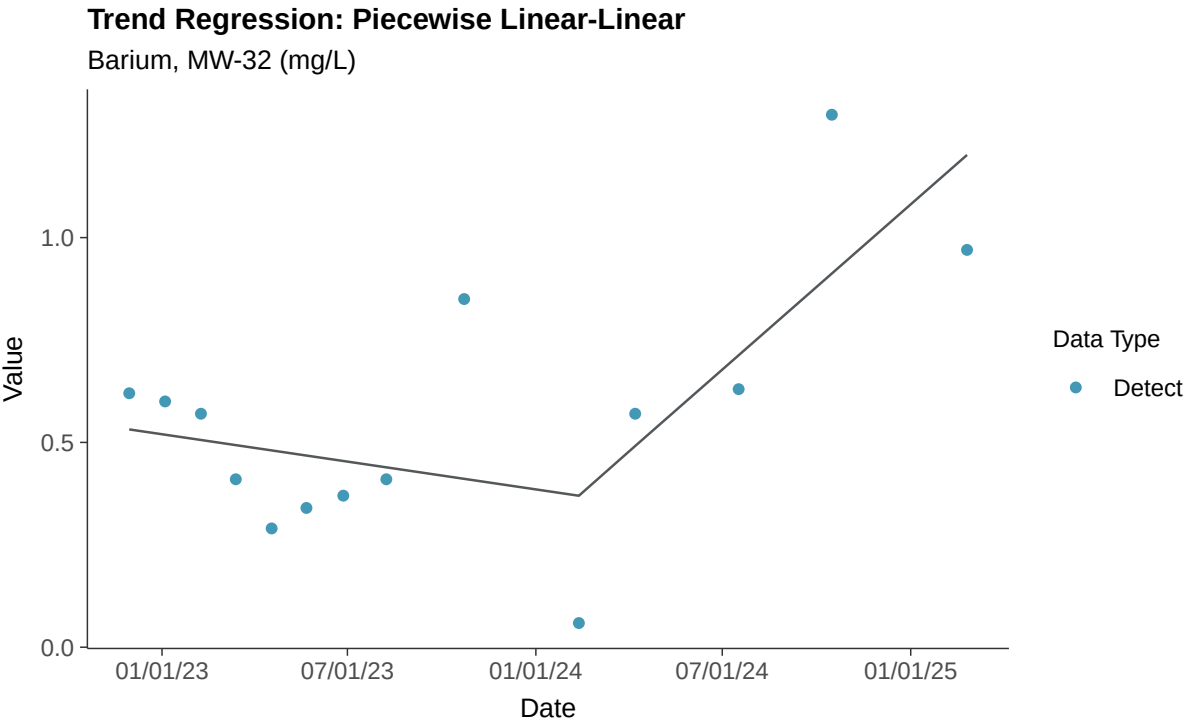
ID: 42_1_4_103







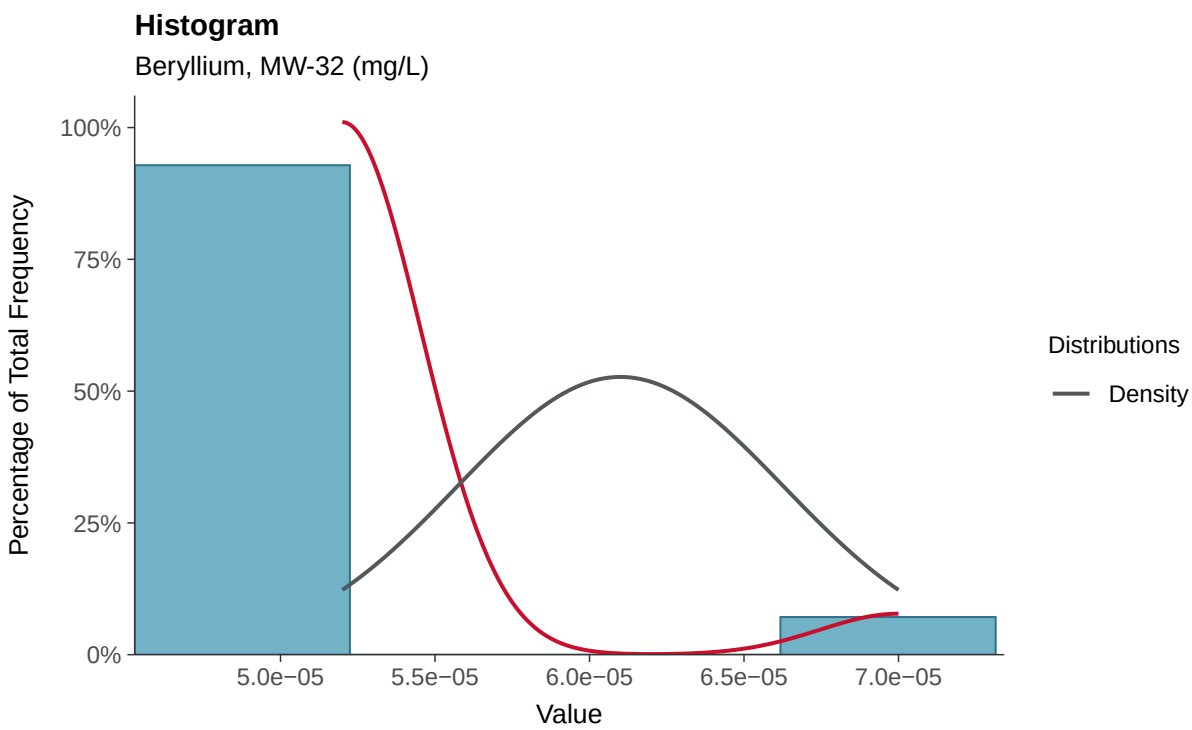
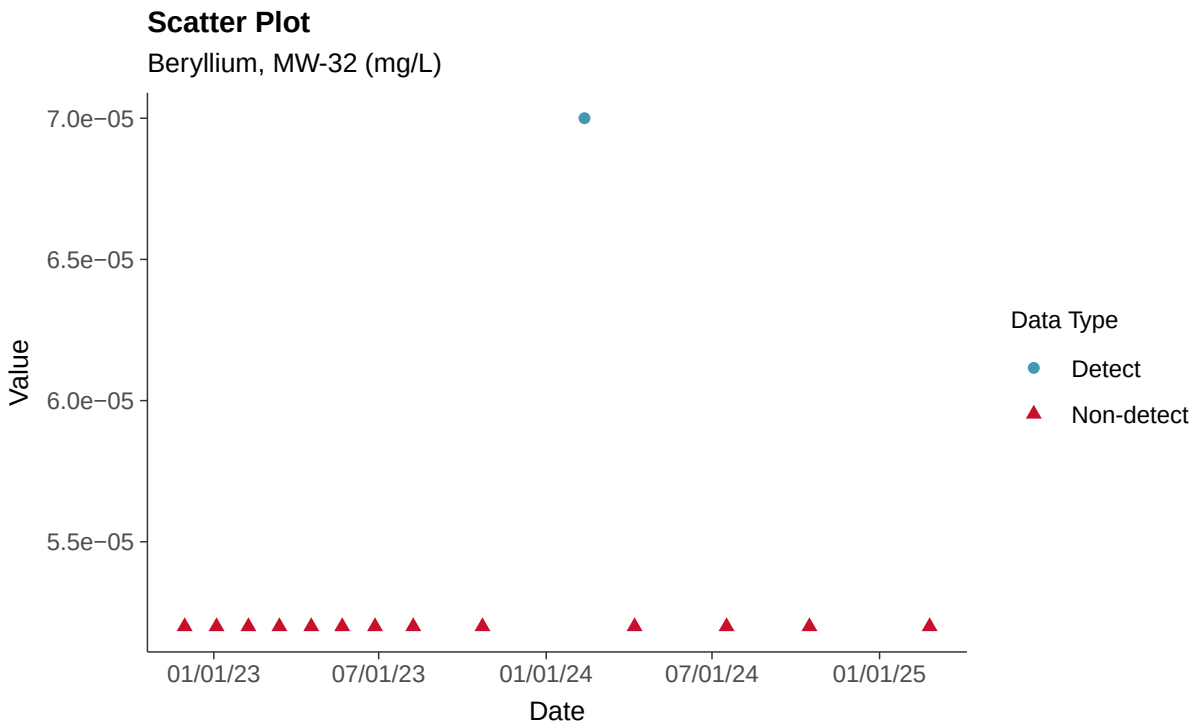


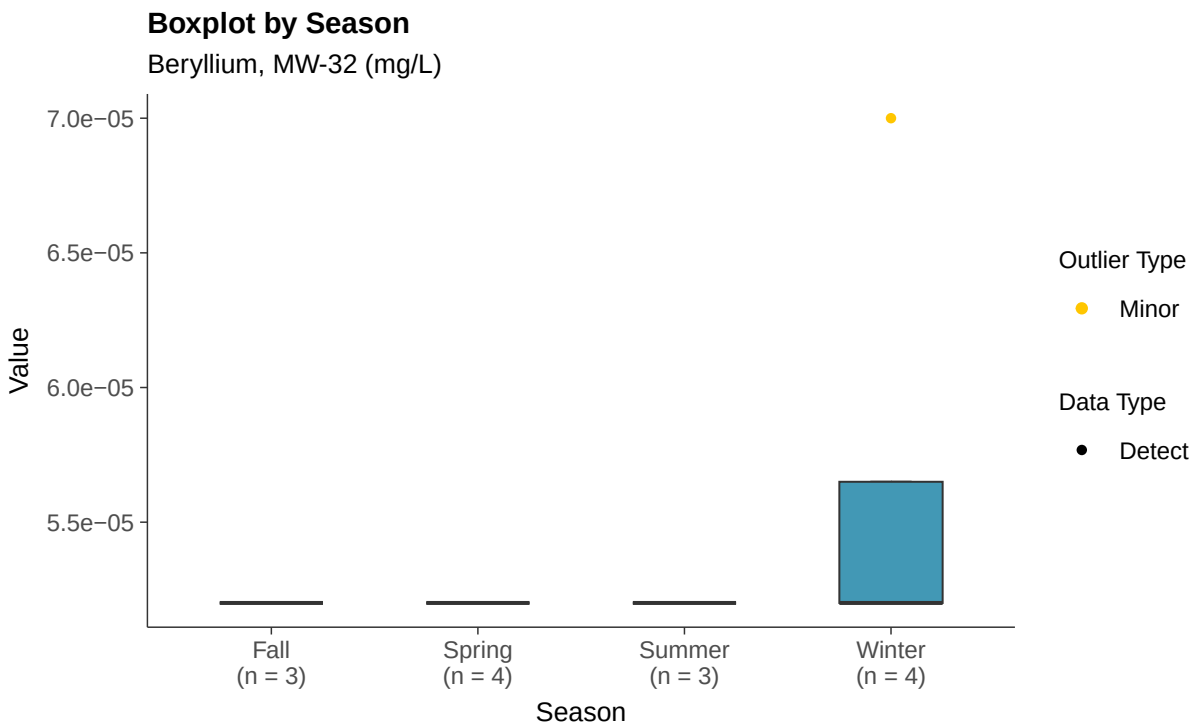
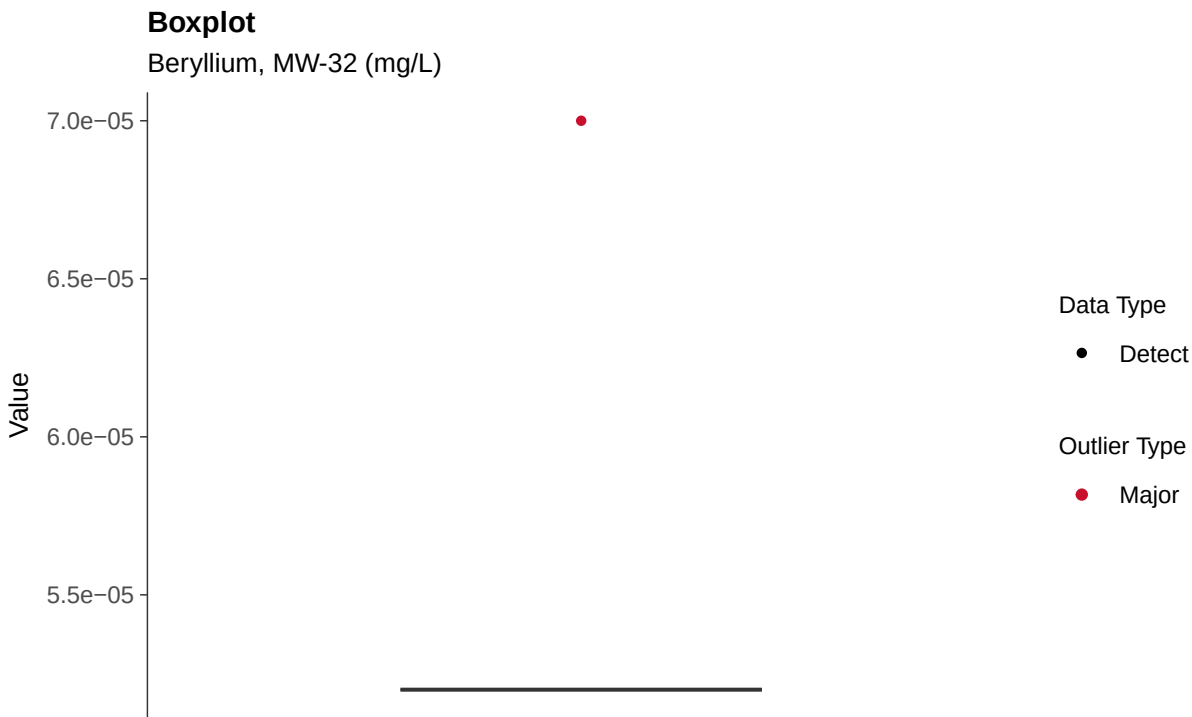


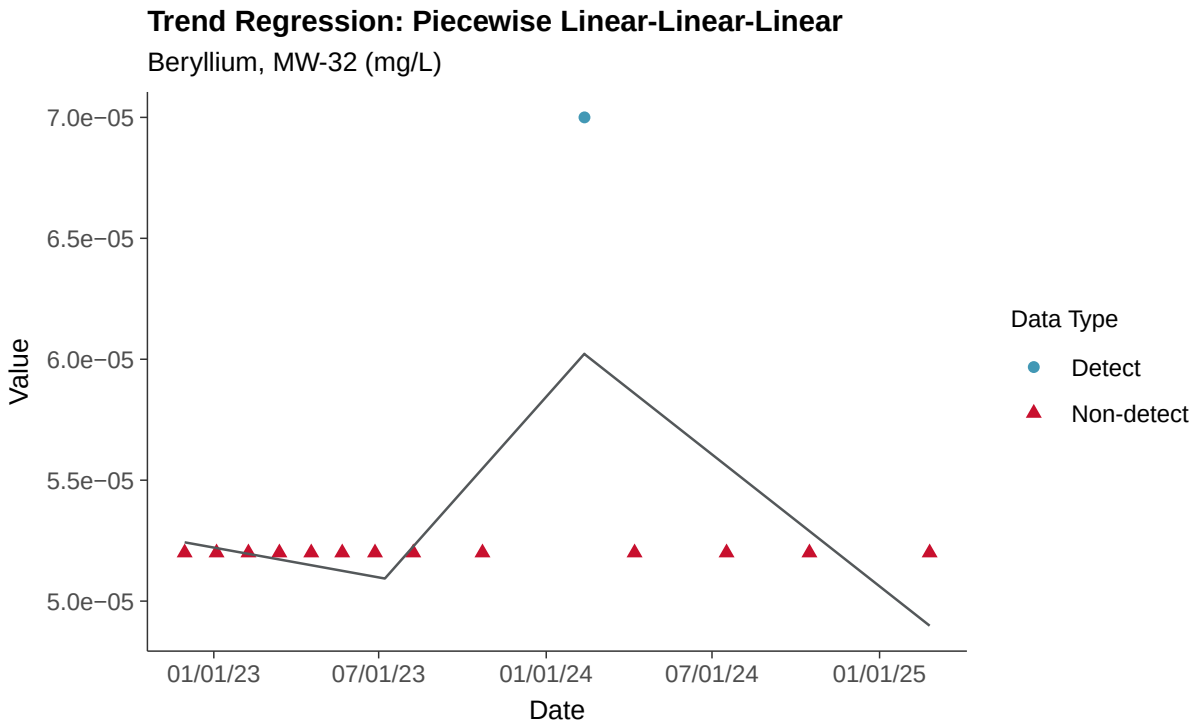
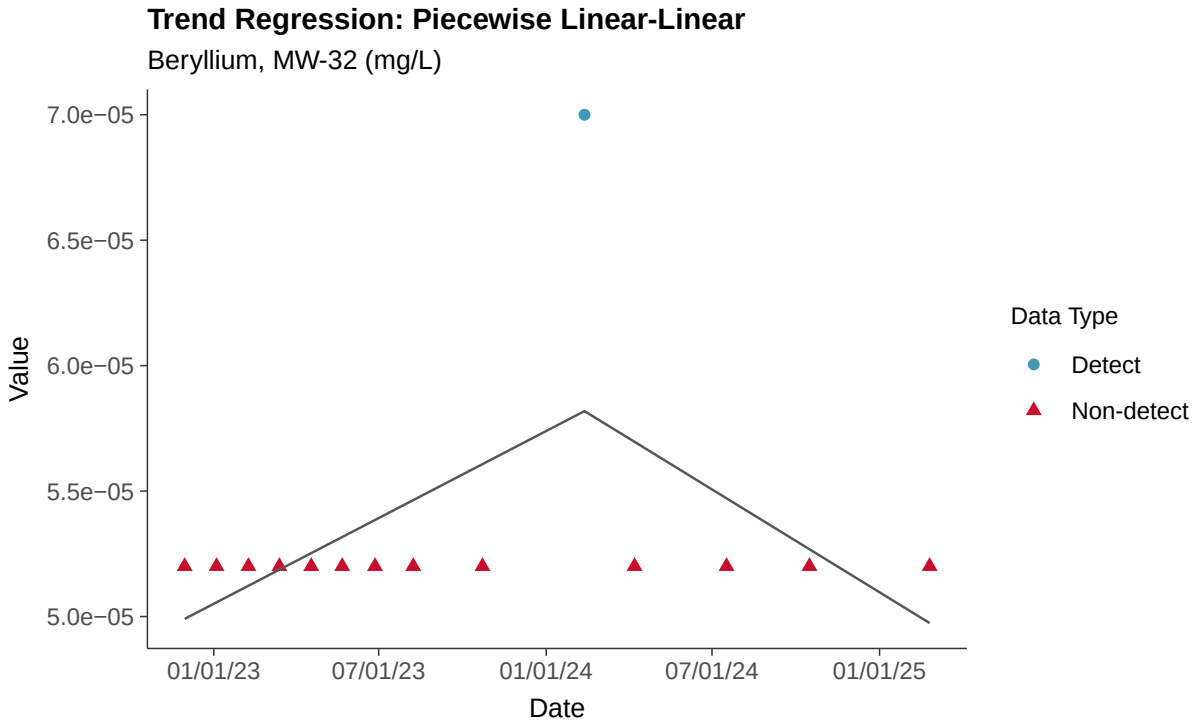


Appendix IV: Beryllium, MW-32

ID: 42_1_4_104



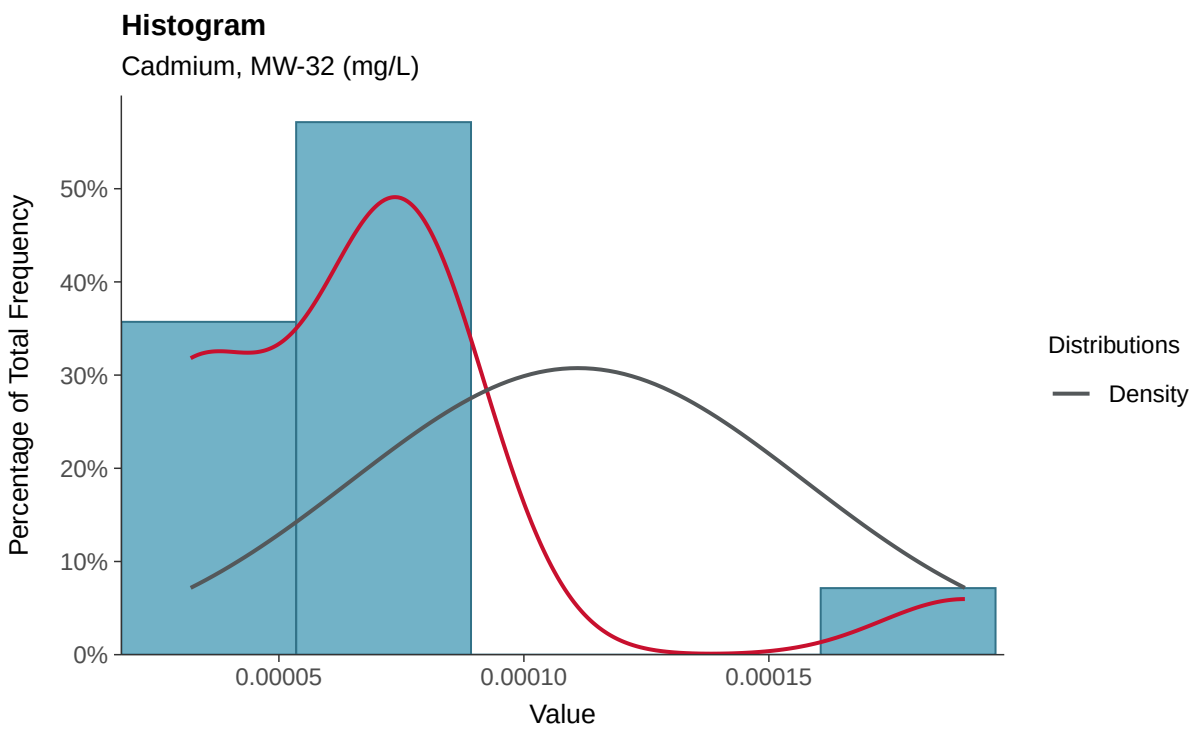
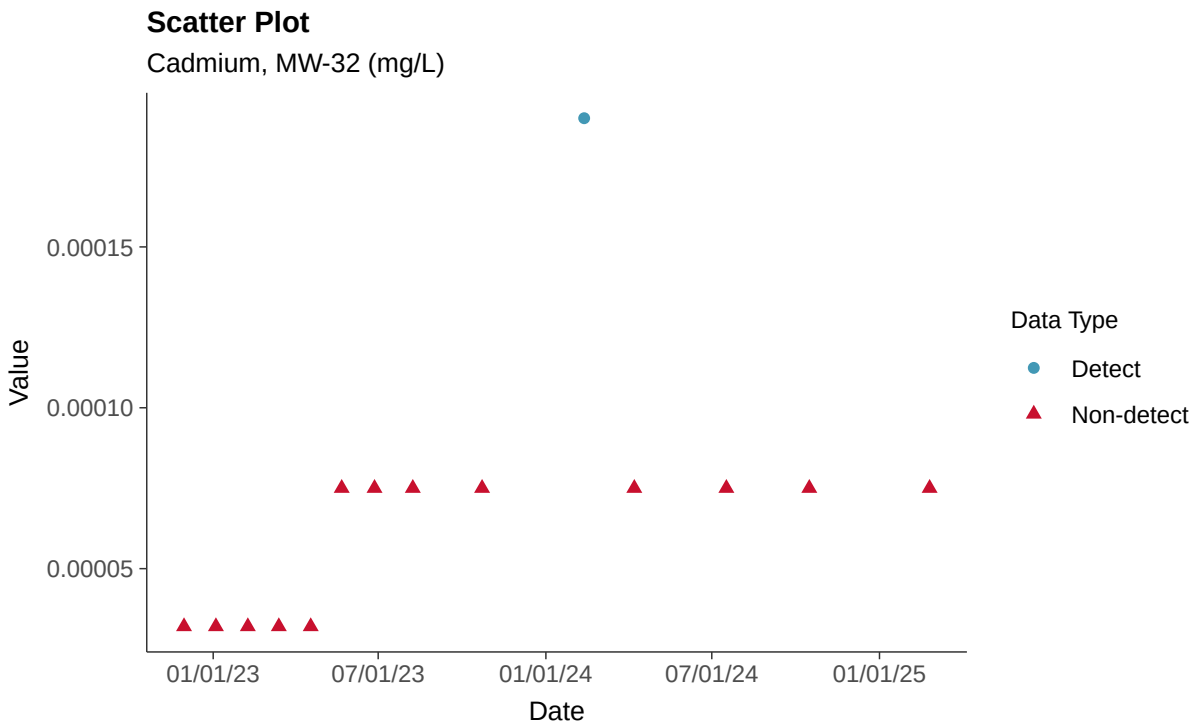


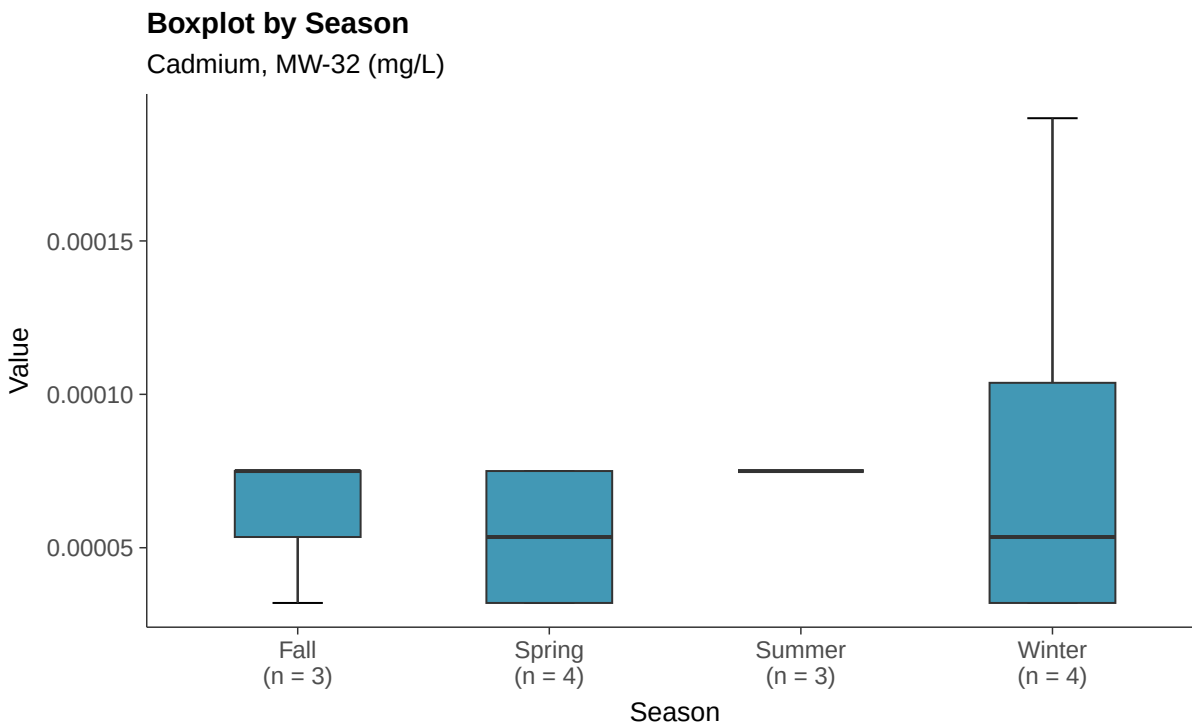
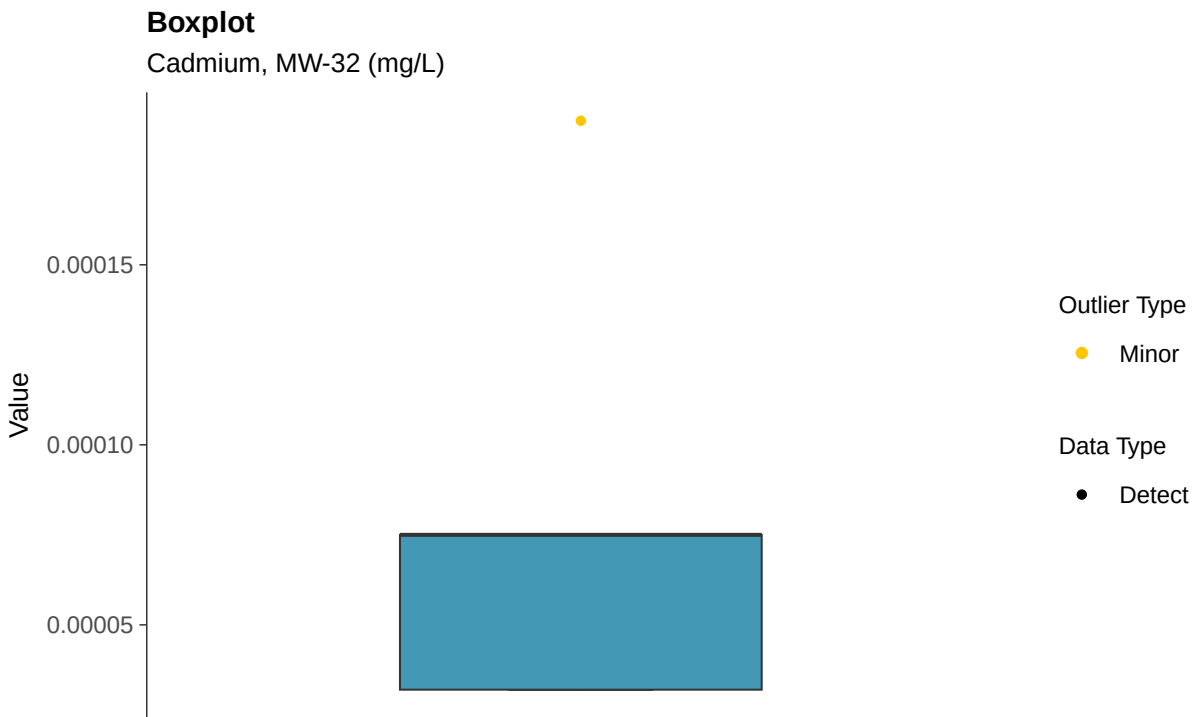


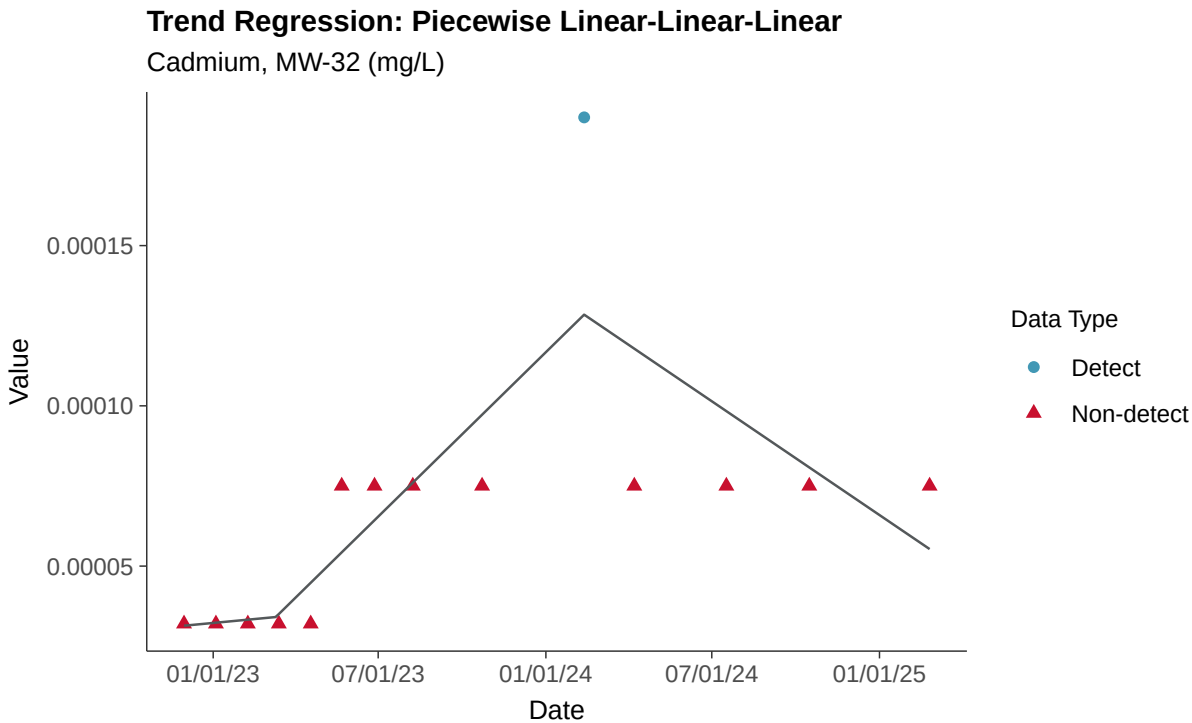
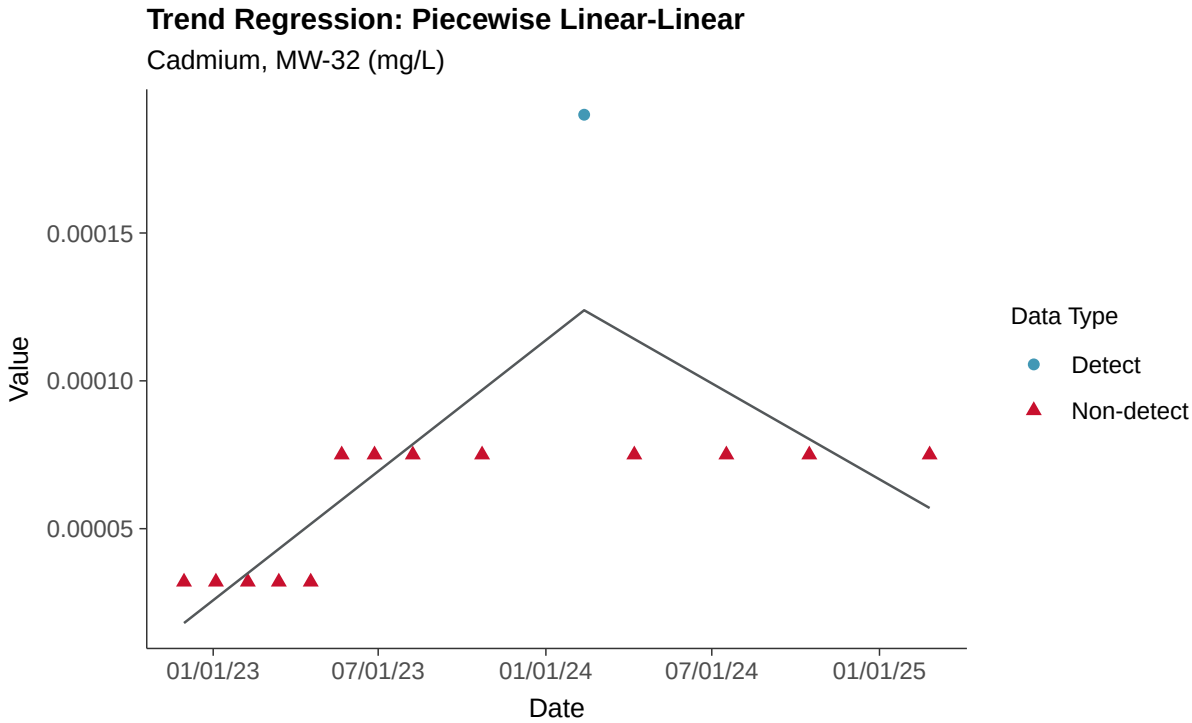


Appendix IV: Cadmium, MW-32

ID: 42_1_4_106



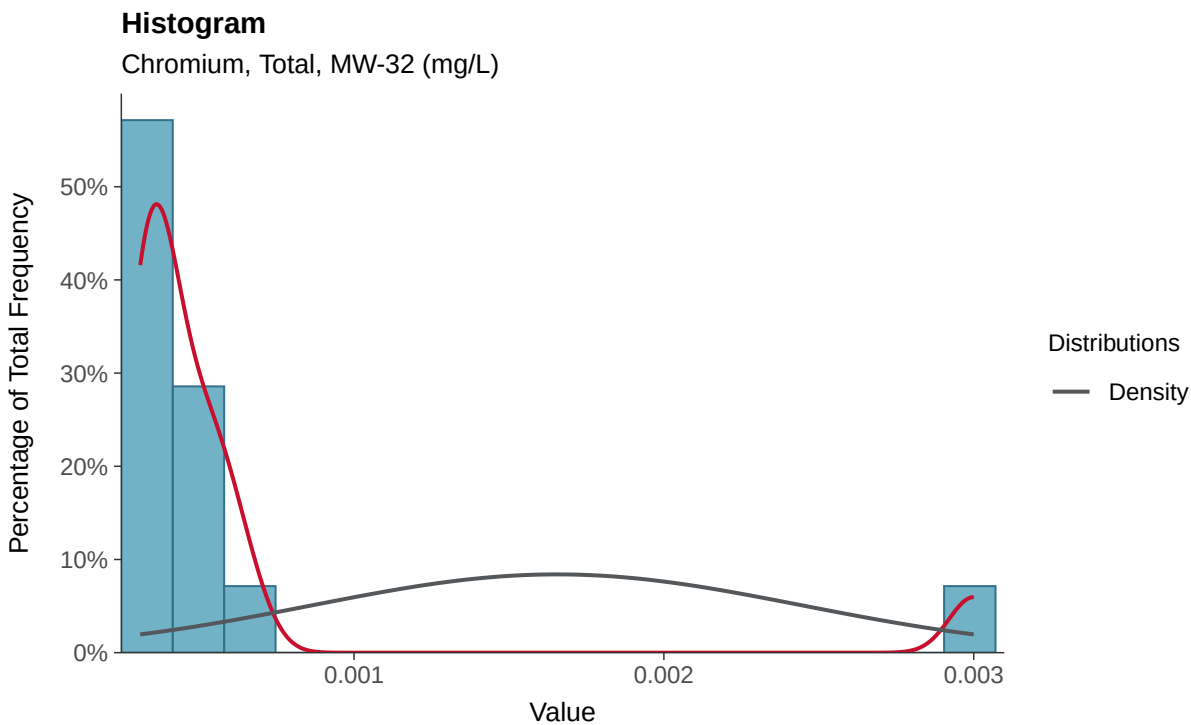
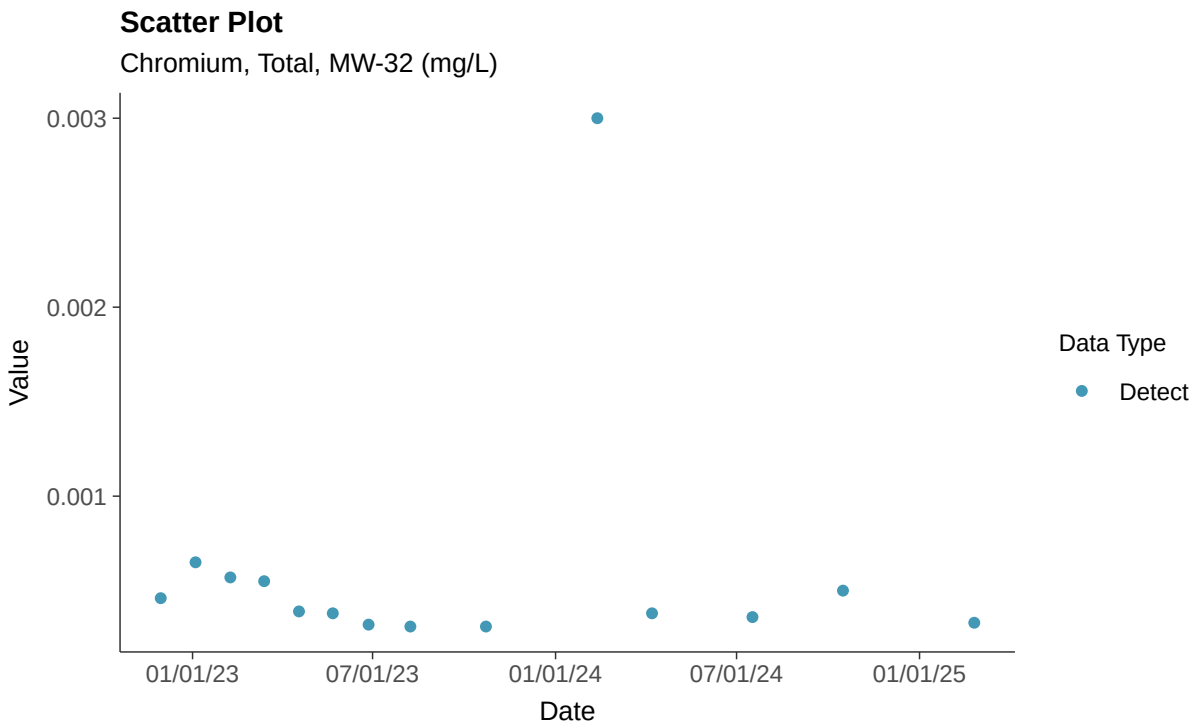


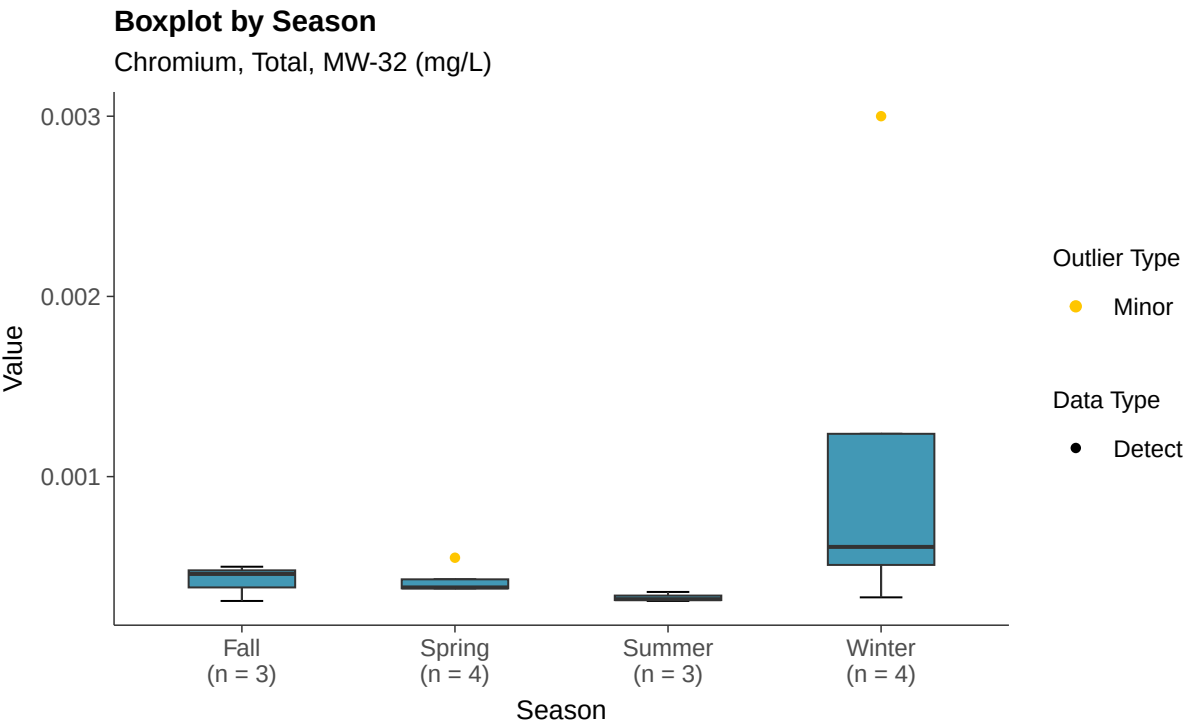
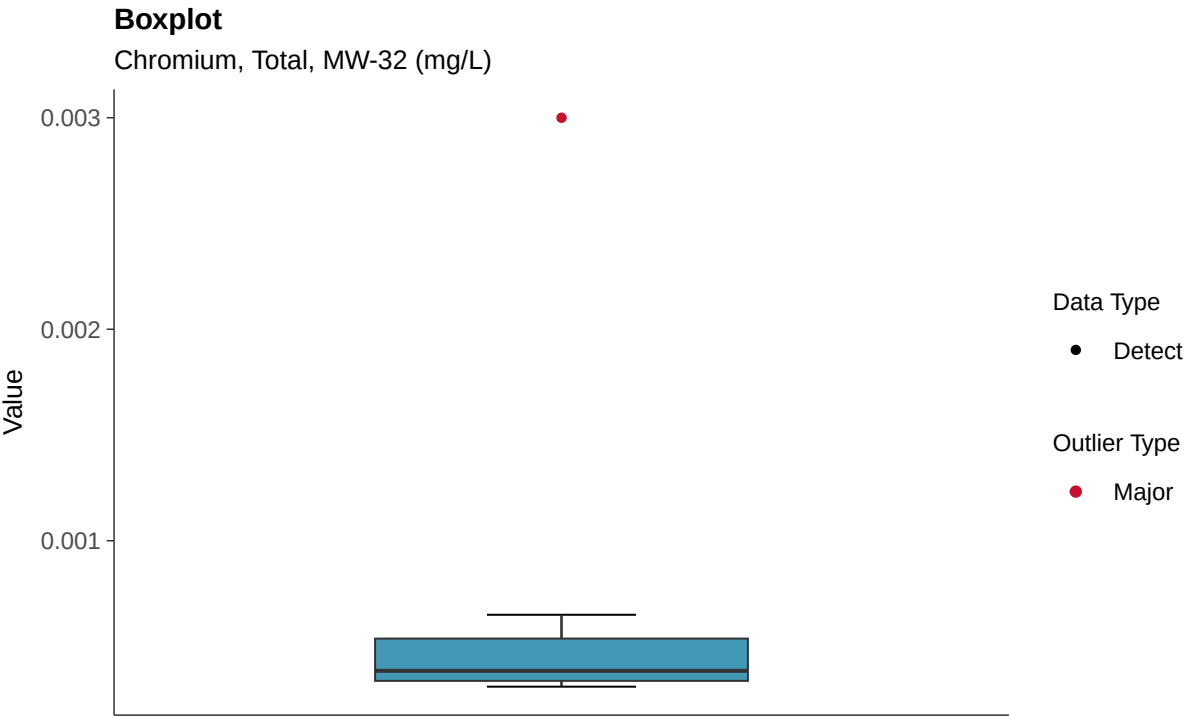


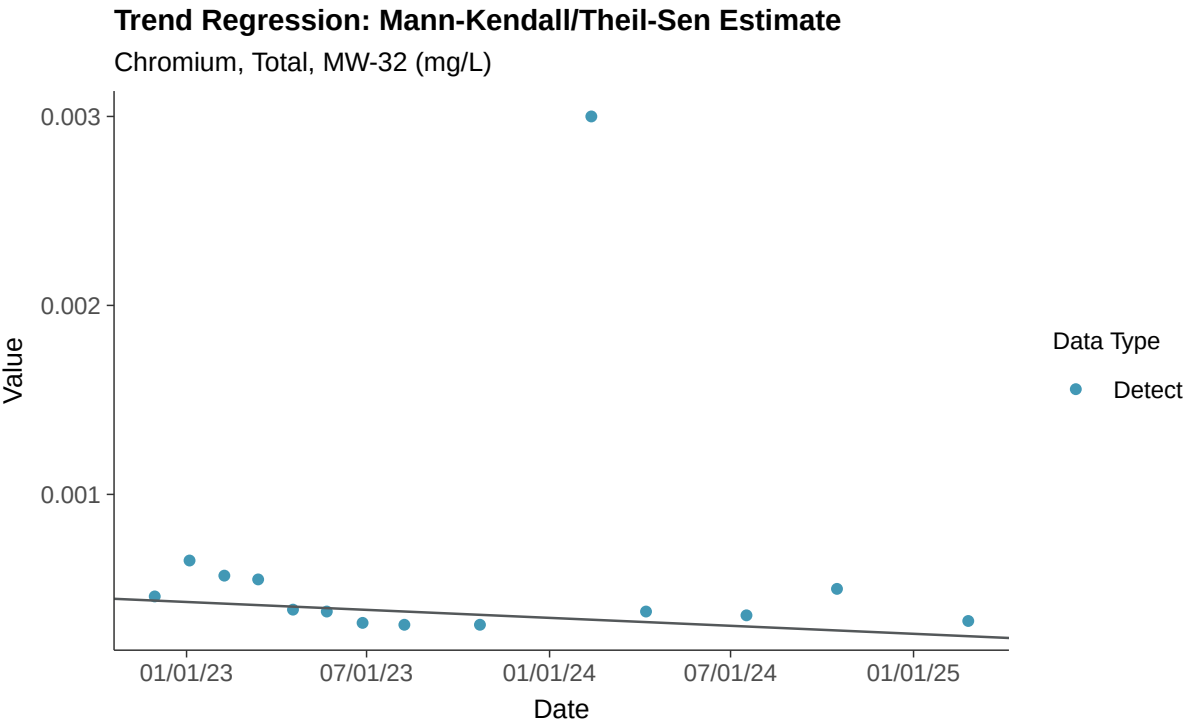
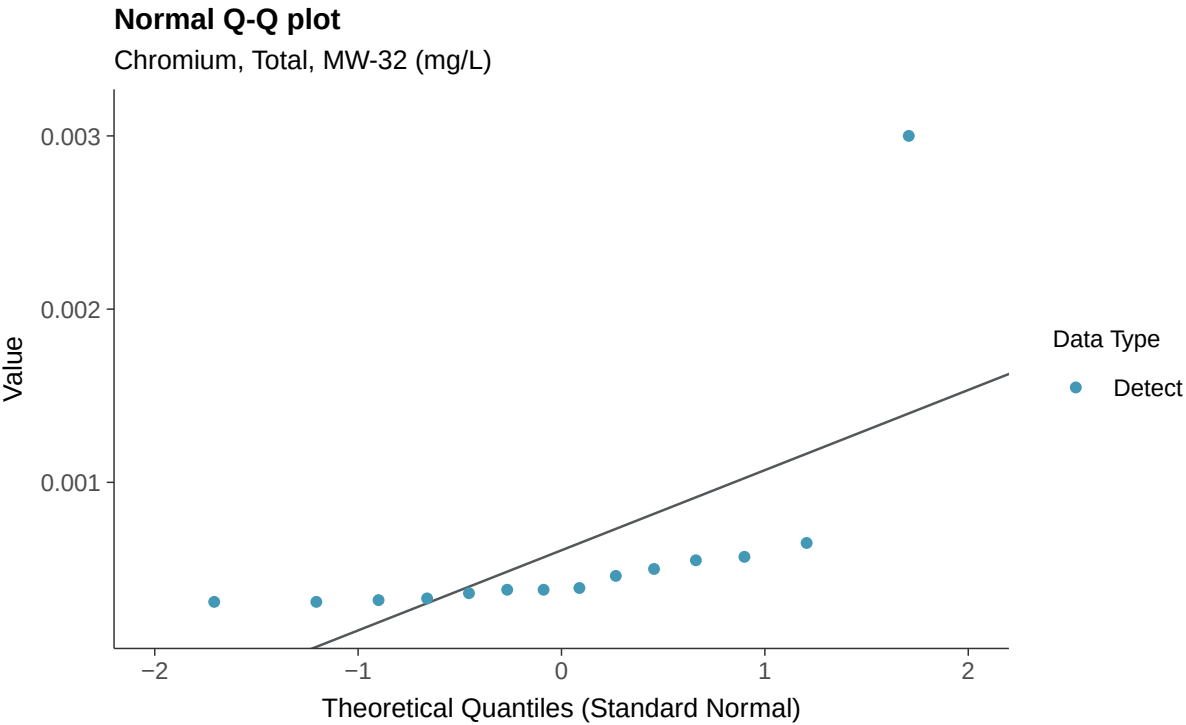


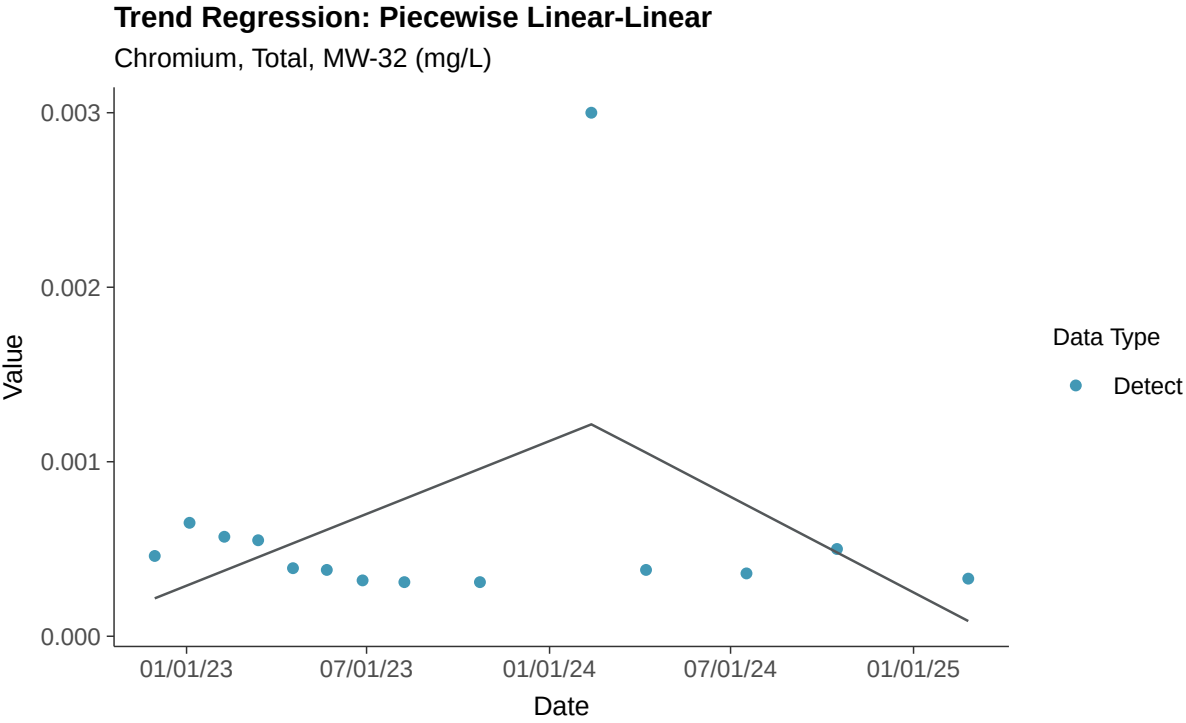
Appendix IV: Chromium, Total, MW-32

ID: 42_1_4_109





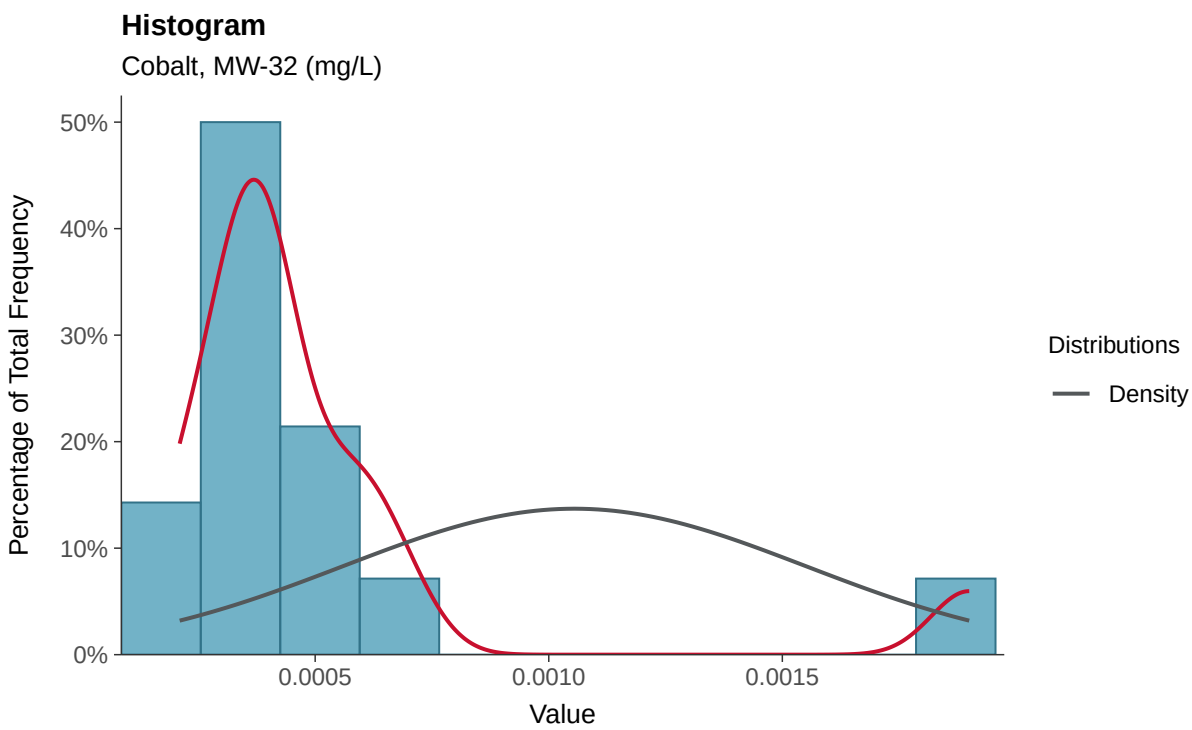
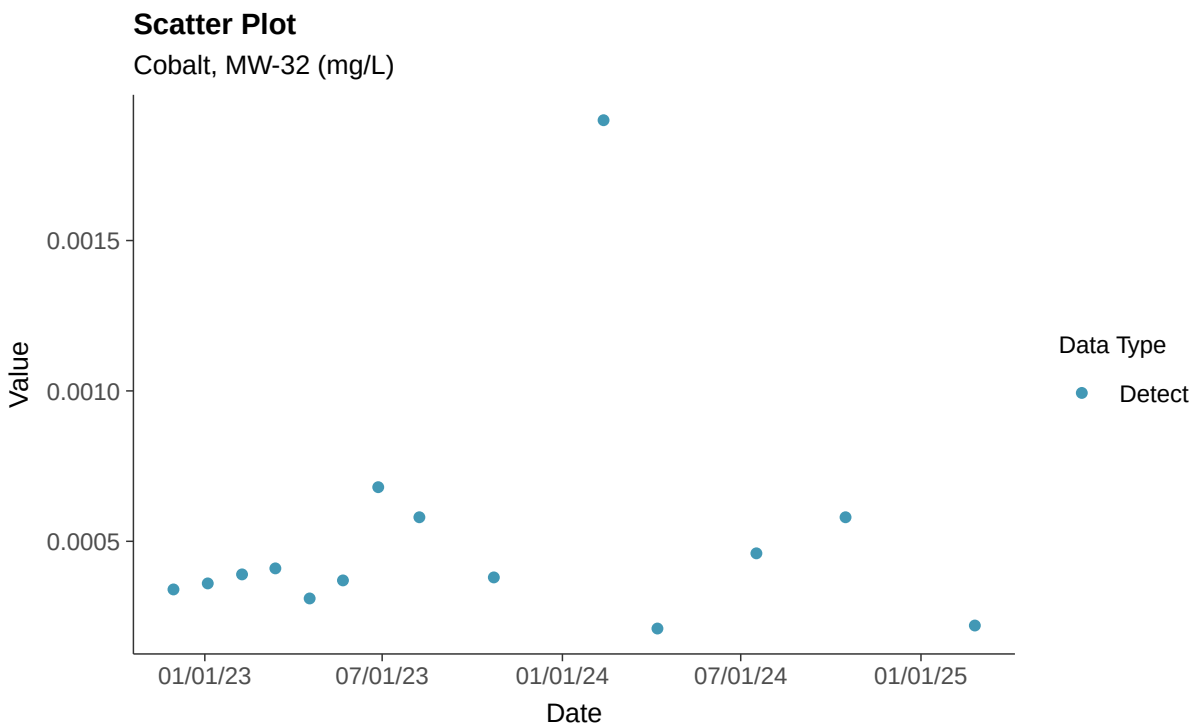


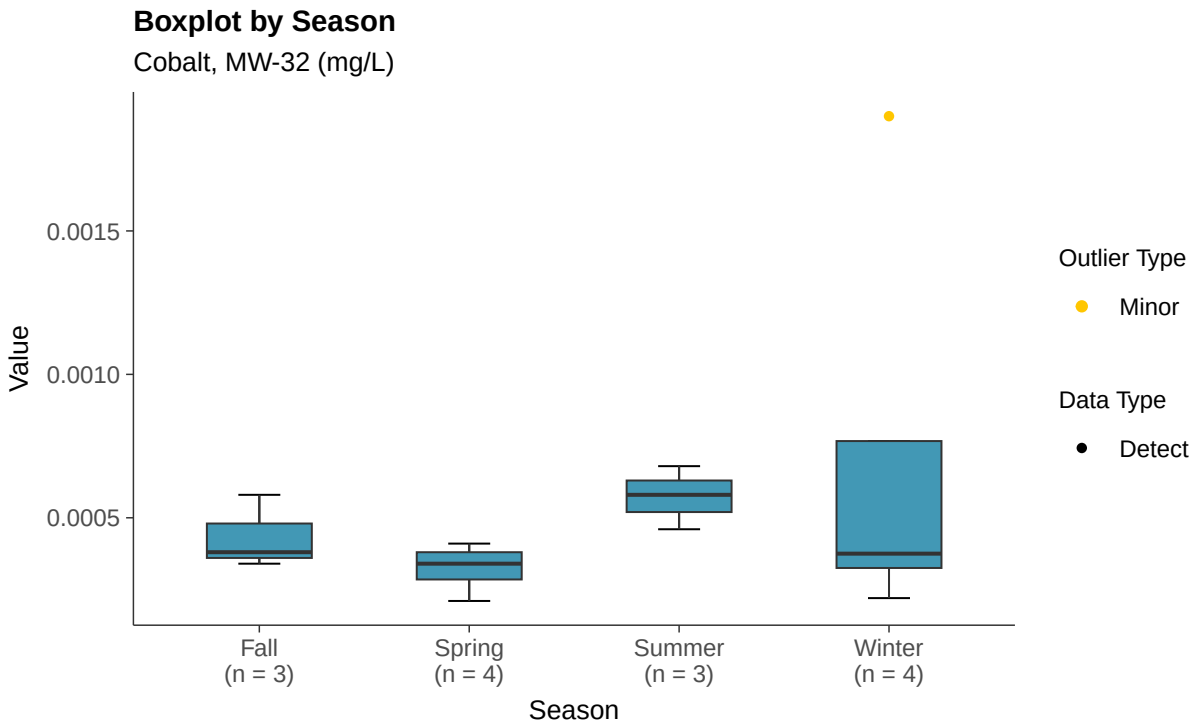
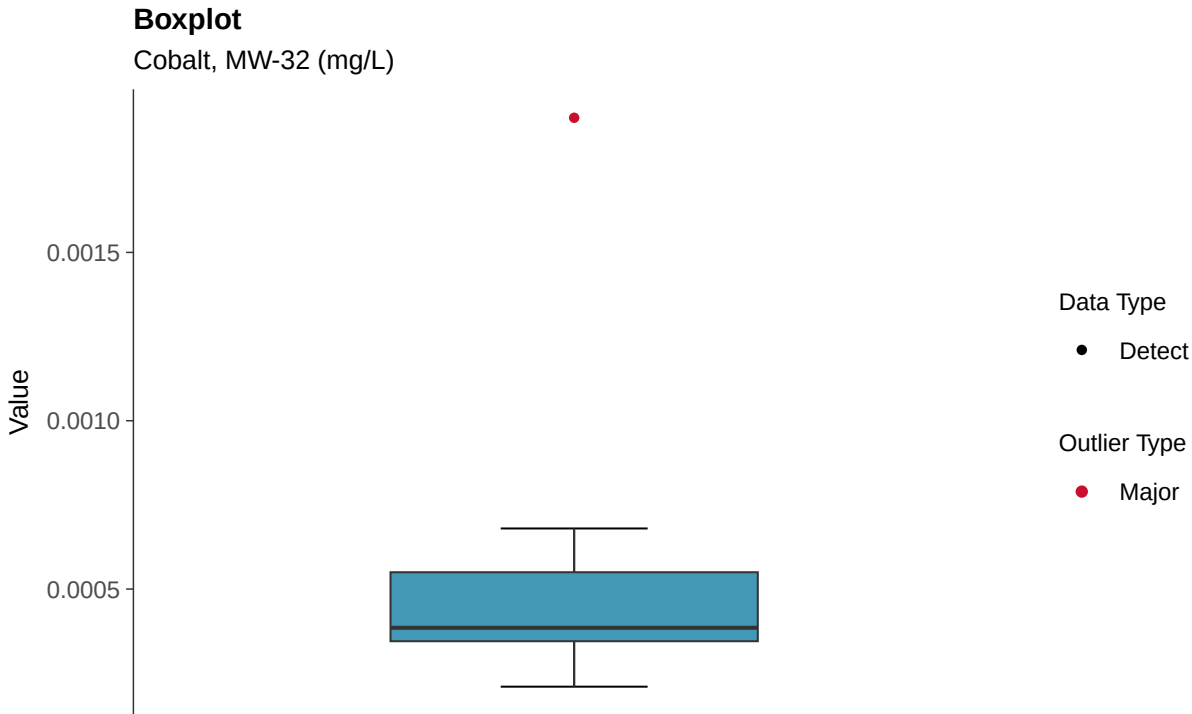


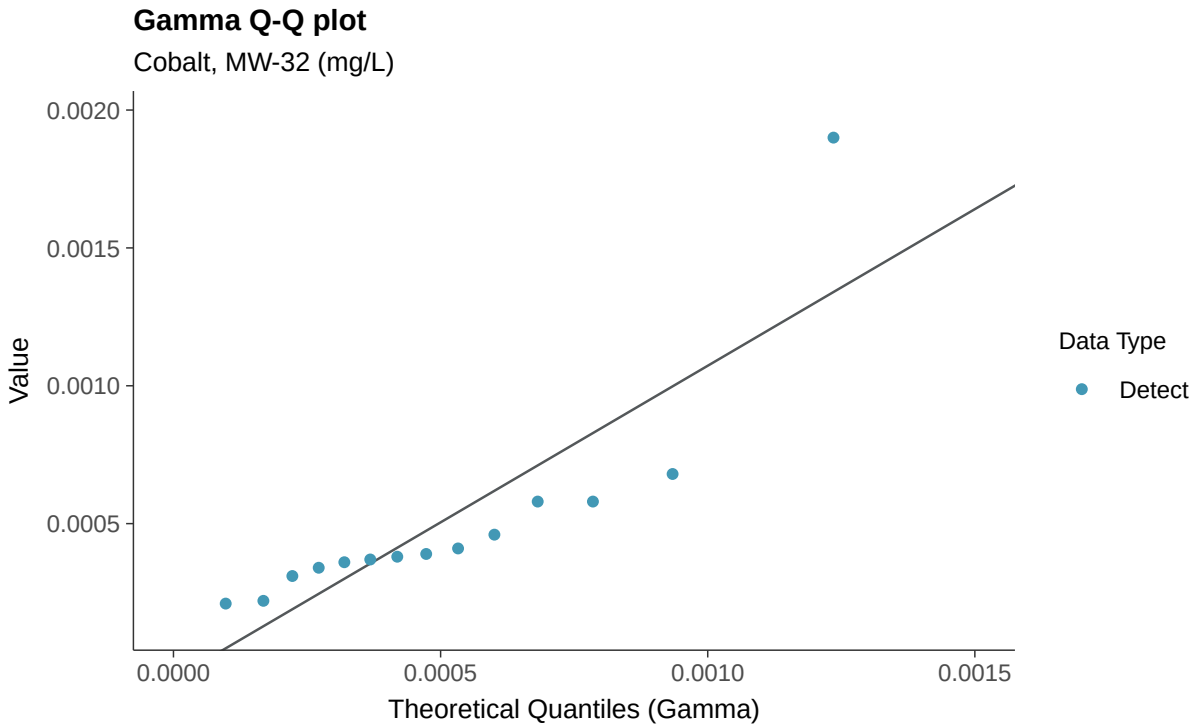
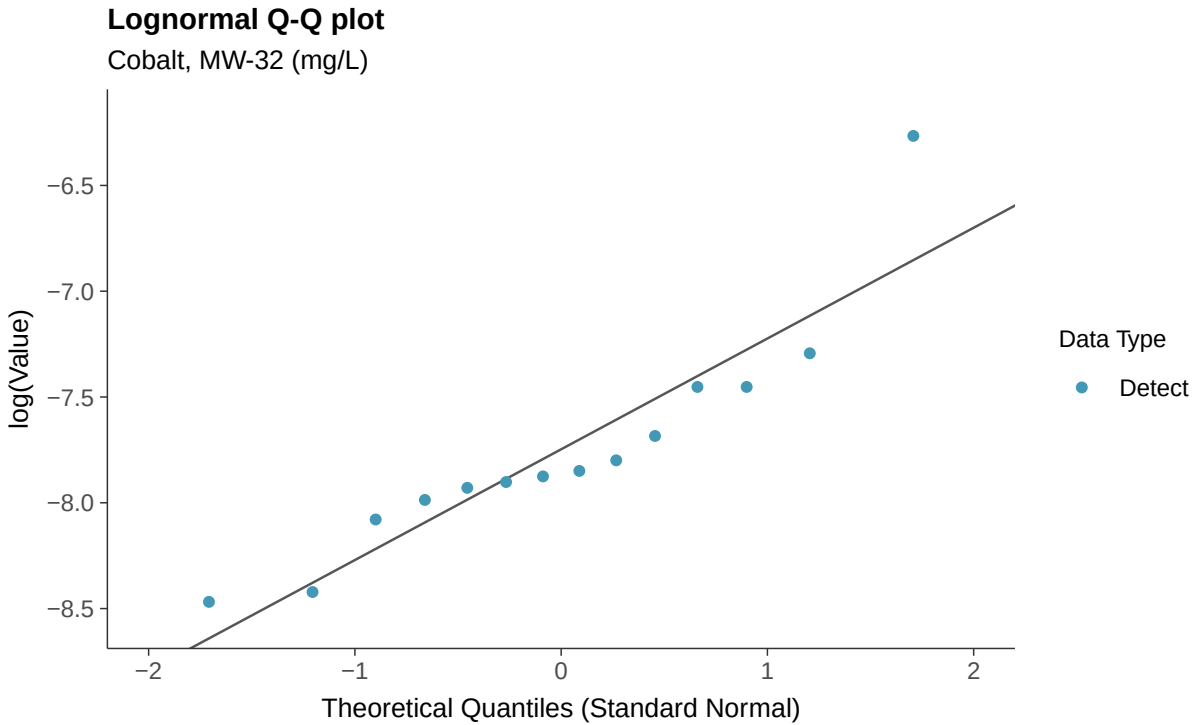


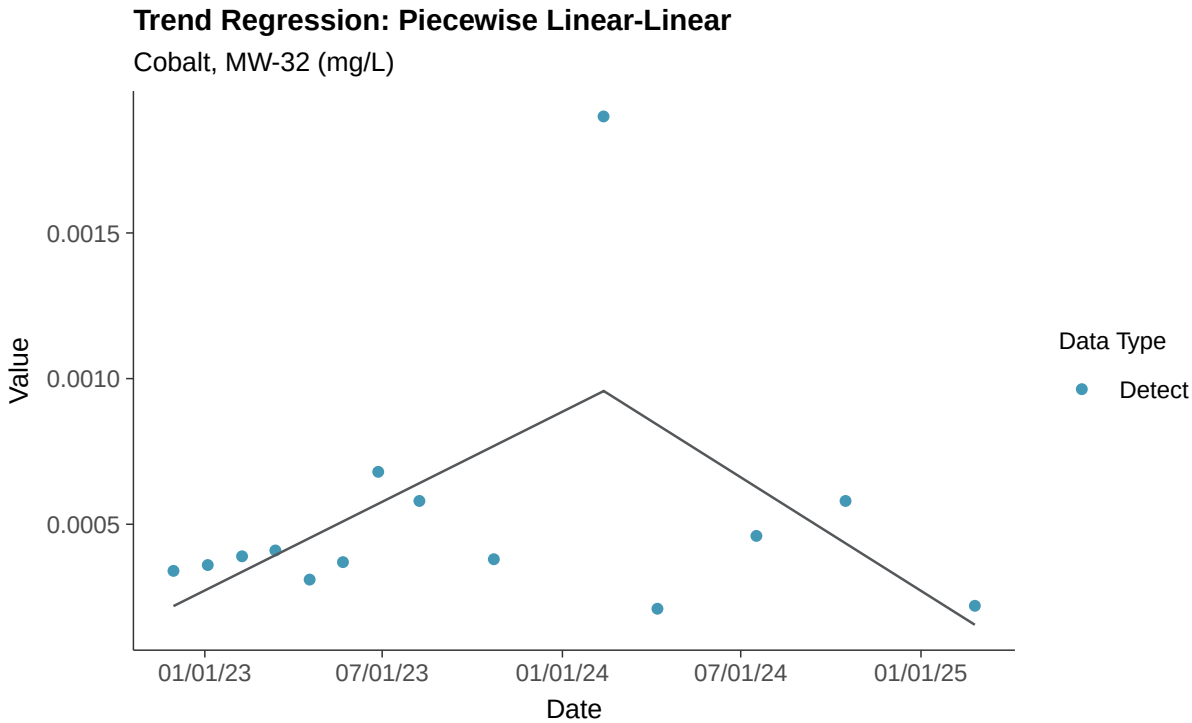
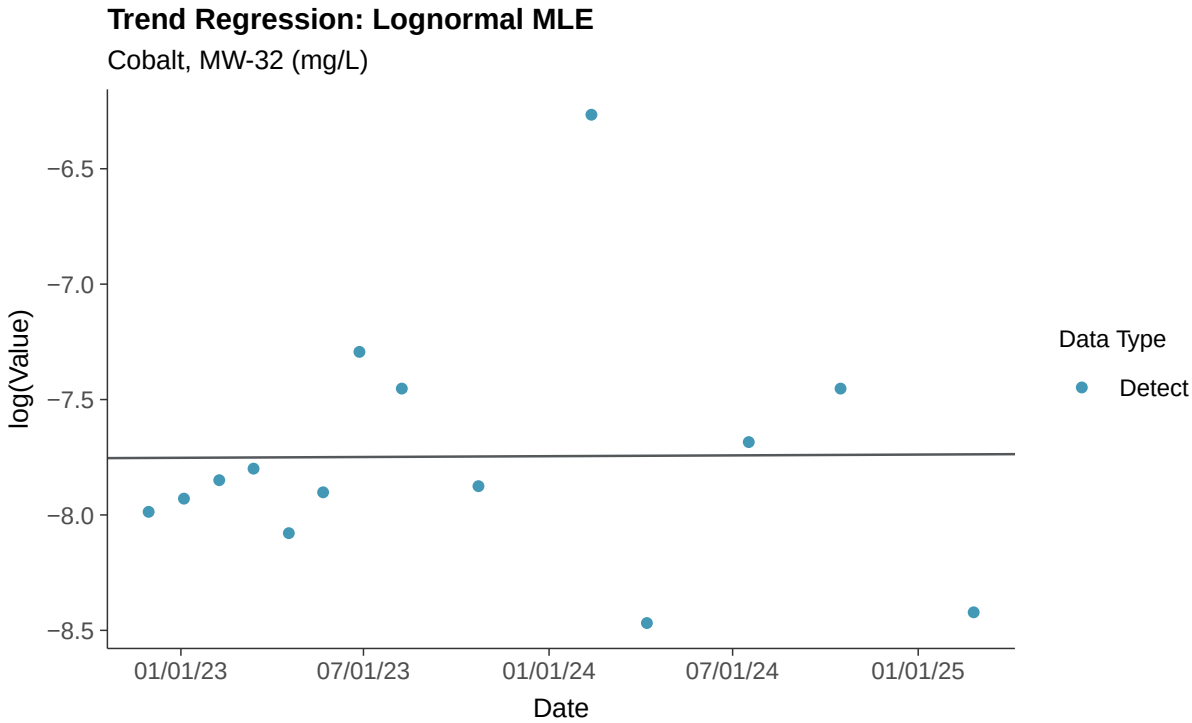
Appendix IV: Cobalt, MW-32

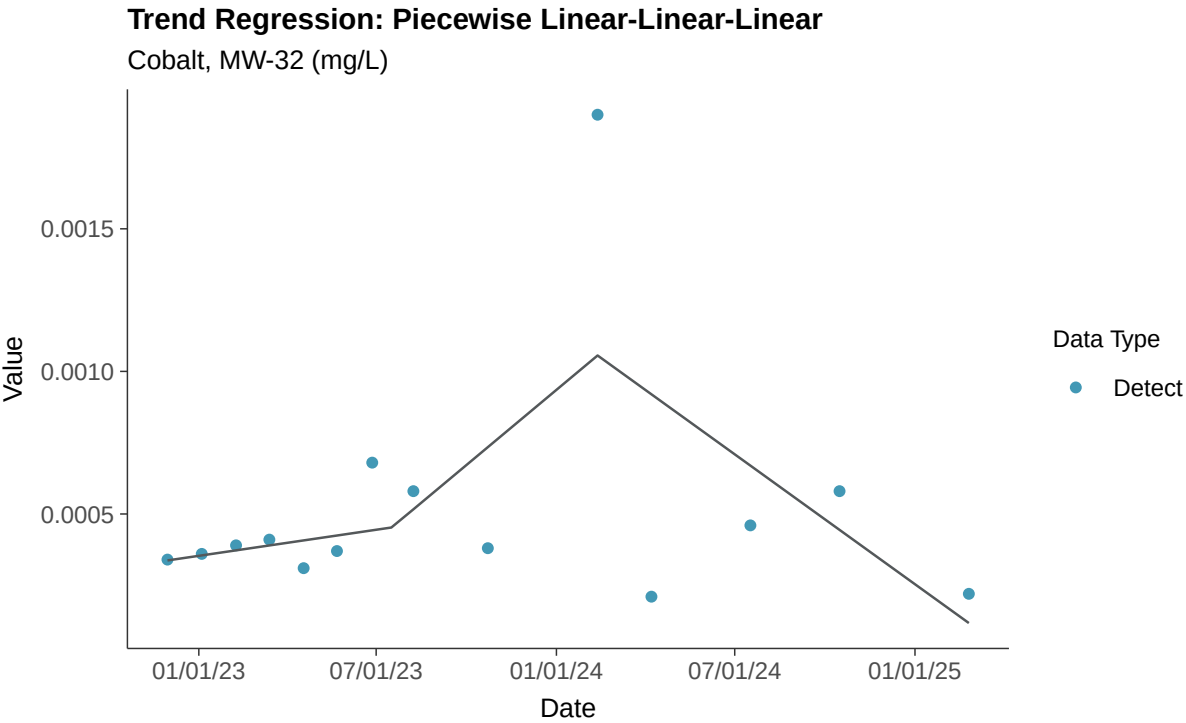
ID: 42_1_4_110







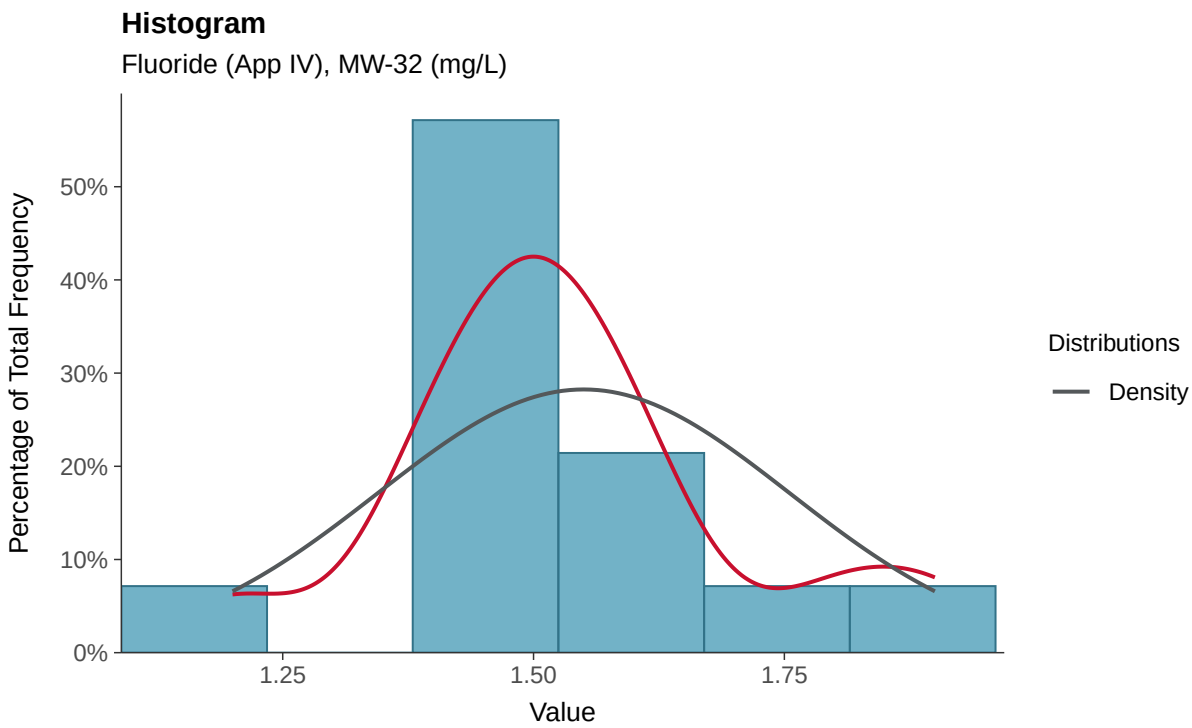
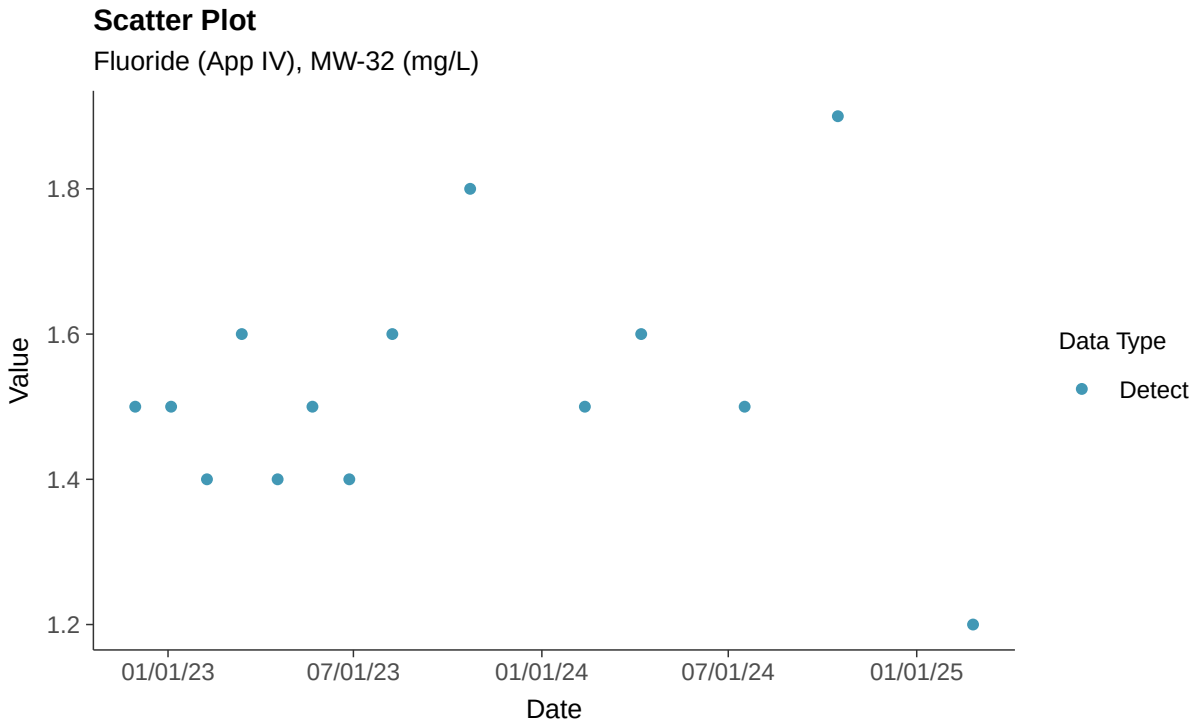


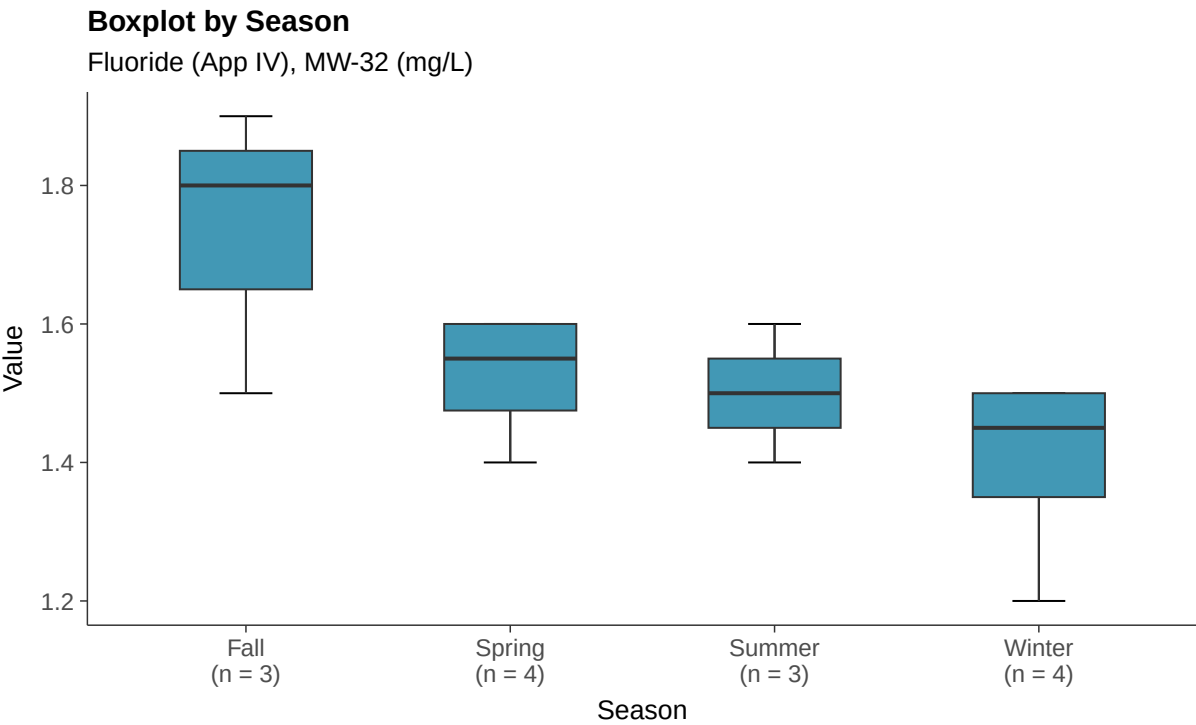
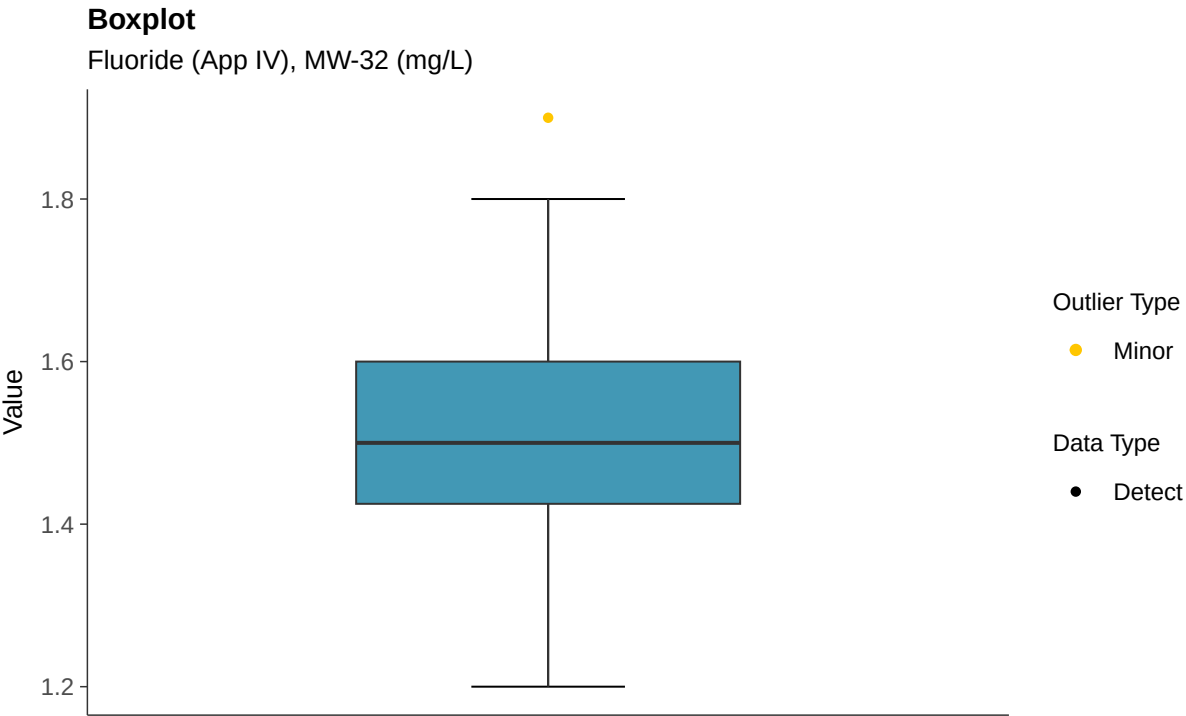




Appendix IV: Fluoride (App IV), MW-32

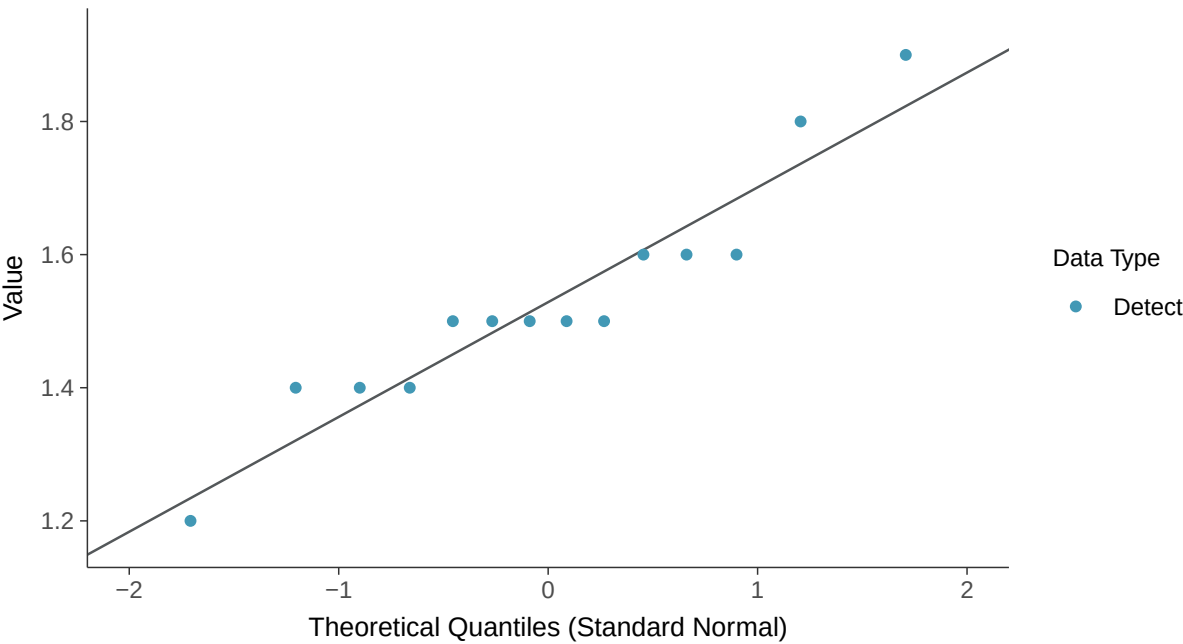
ID: 42_1_4_113



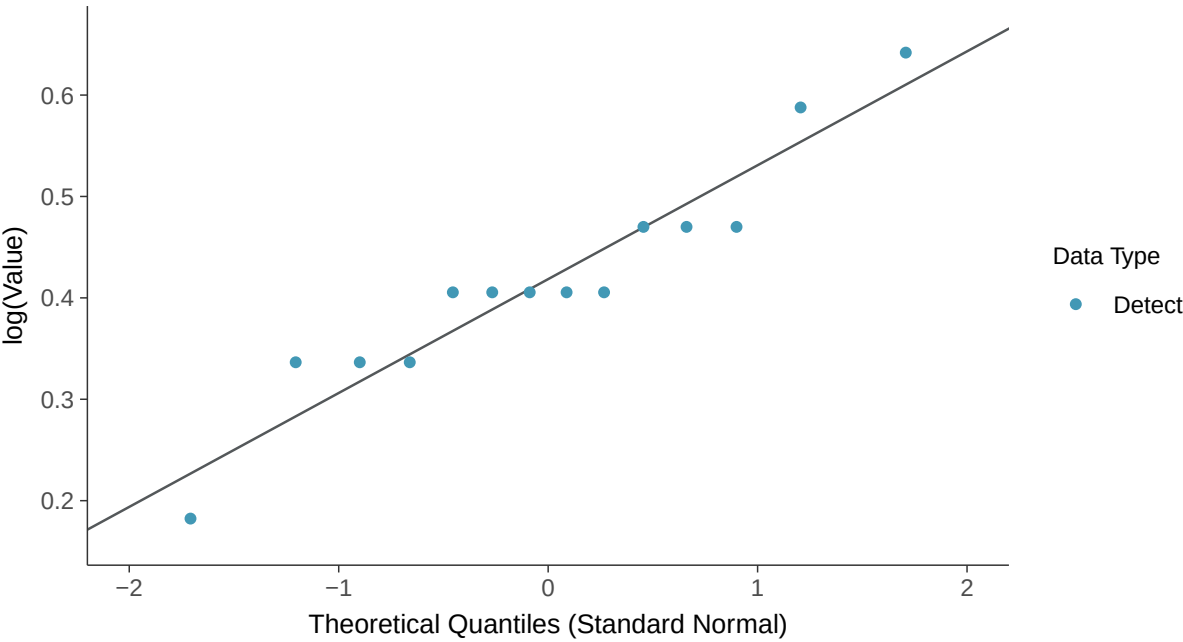


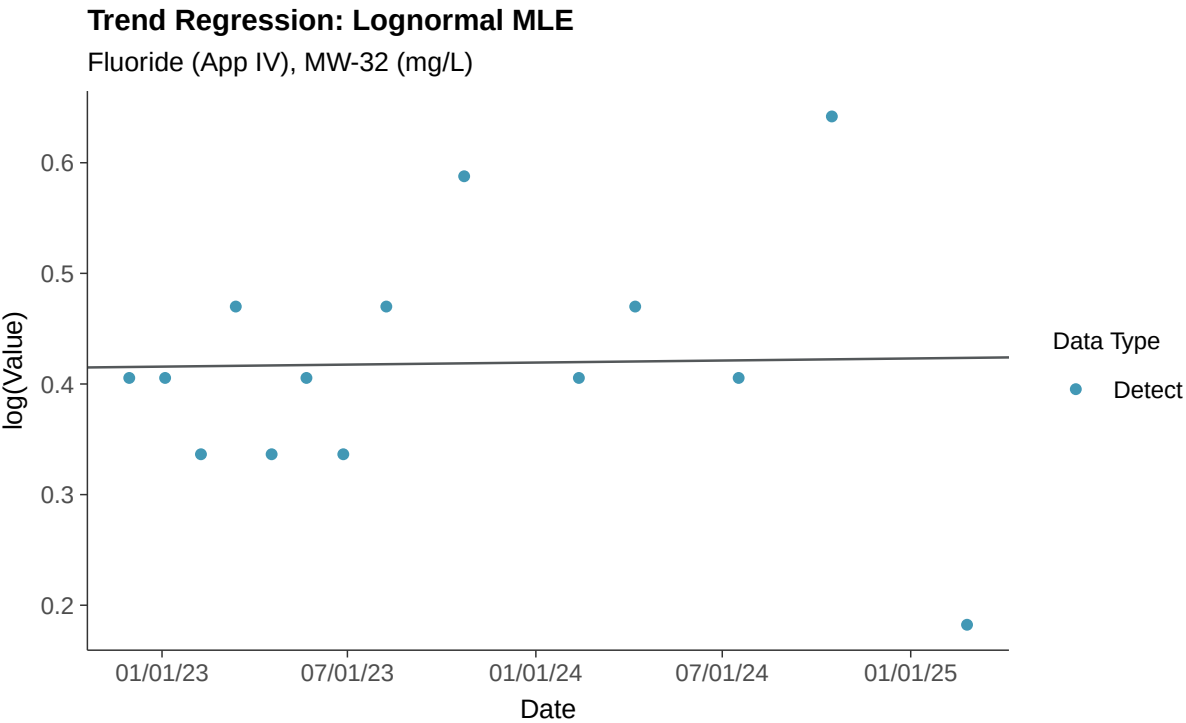
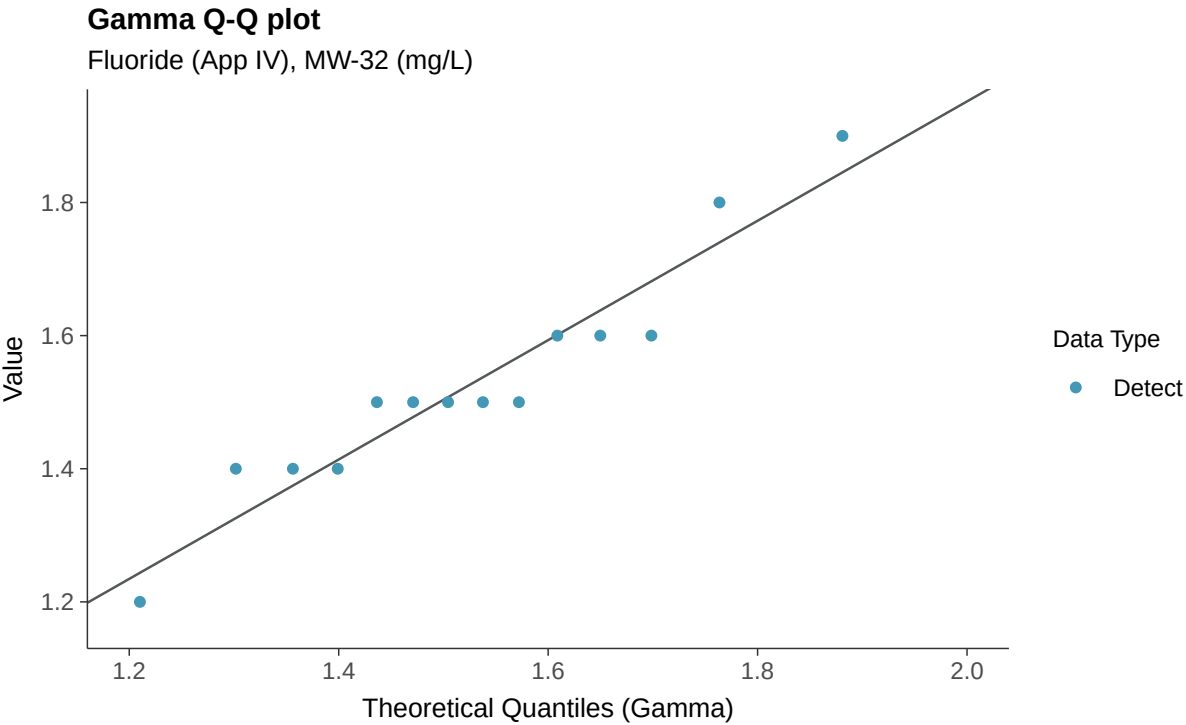


Normal Q-Q plot
Fluoride (App IV), MW-32 (mg/L)



Lognormal Q-Q plot
Fluoride (App IV), MW-32 (mg/L)

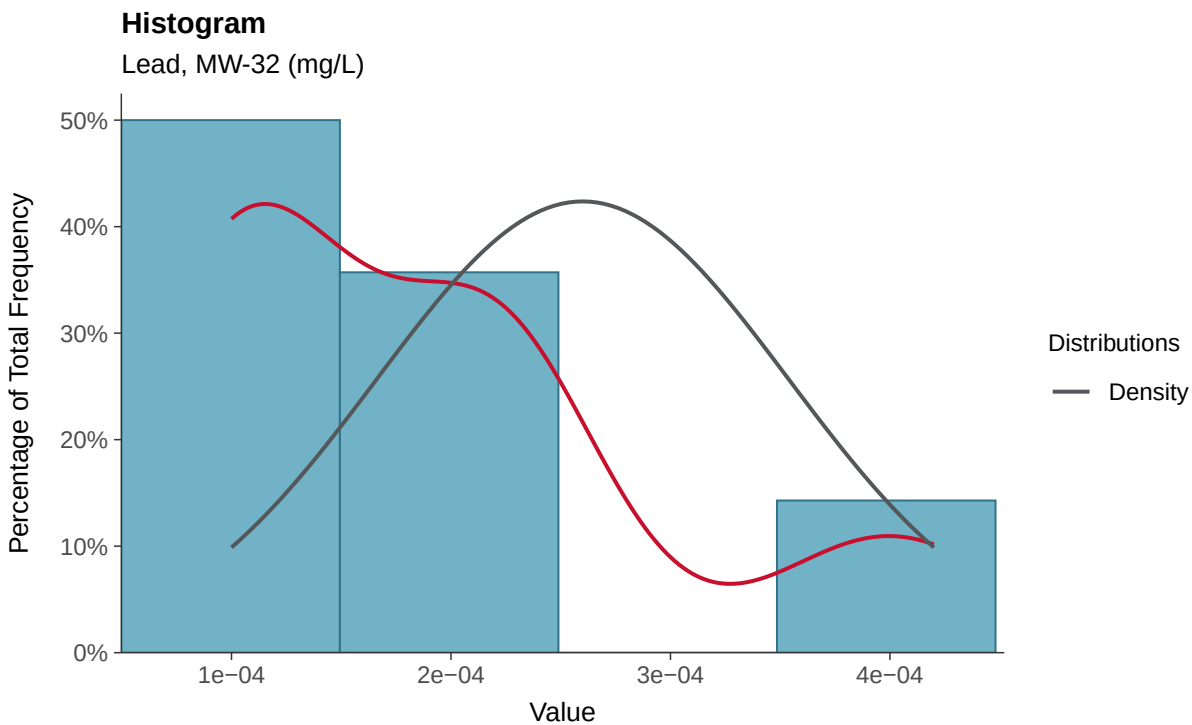
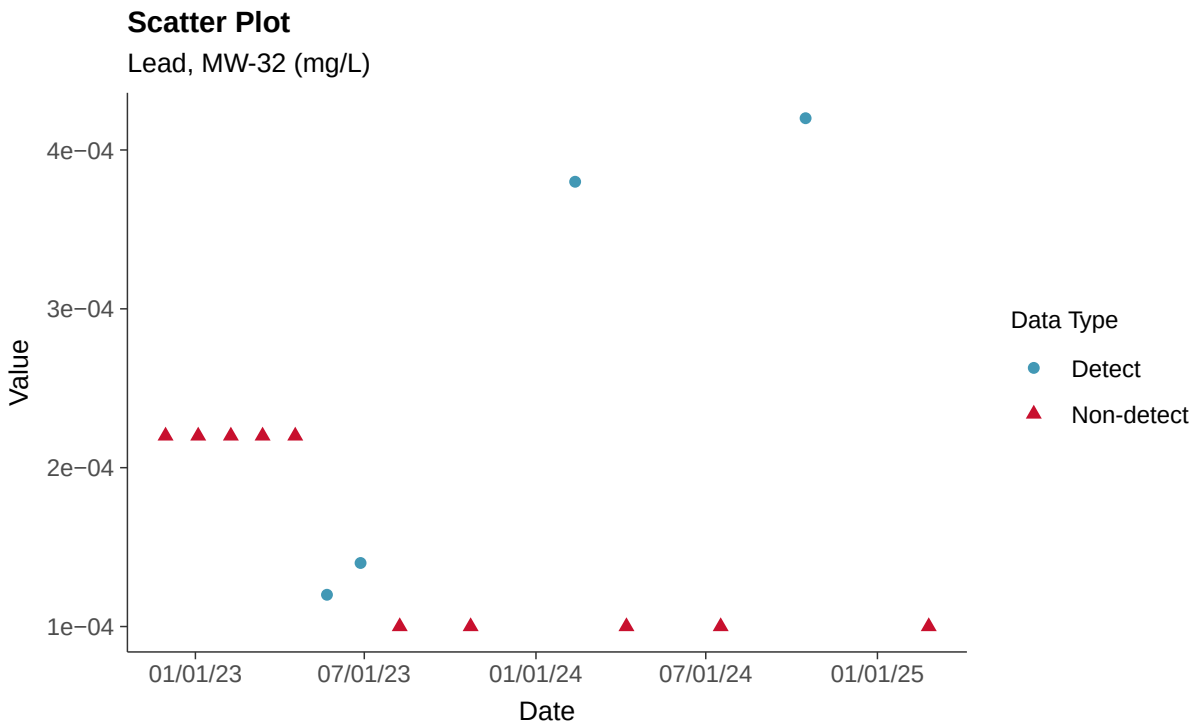


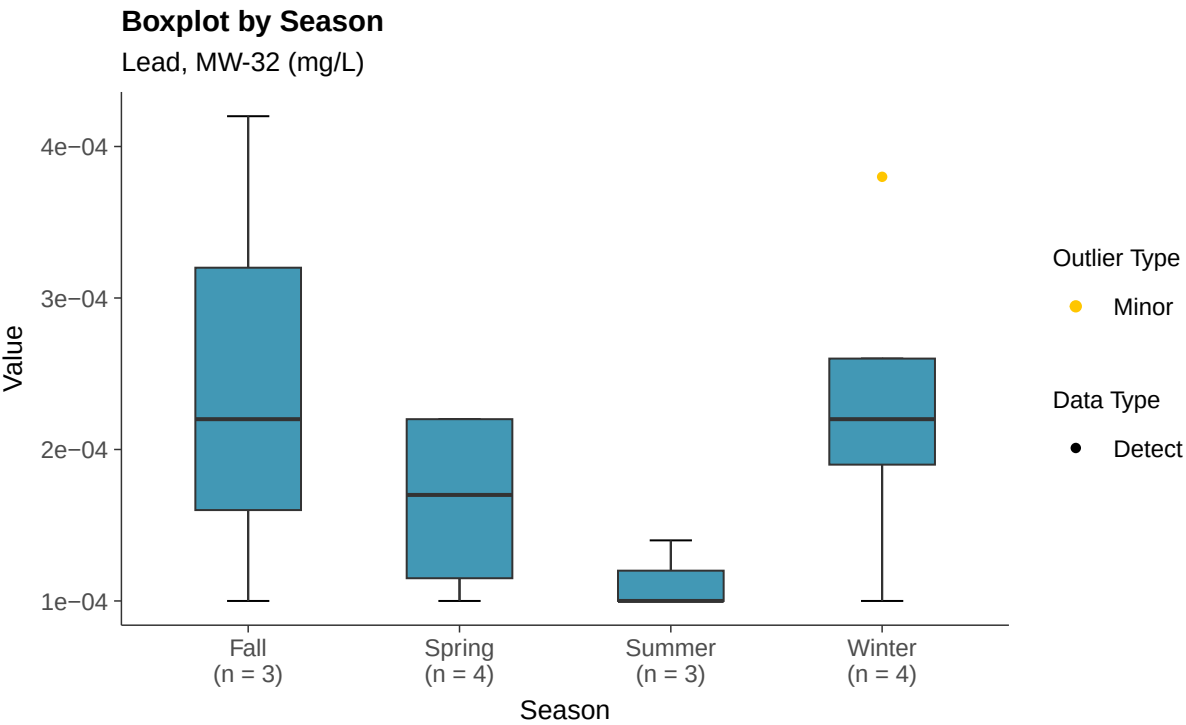
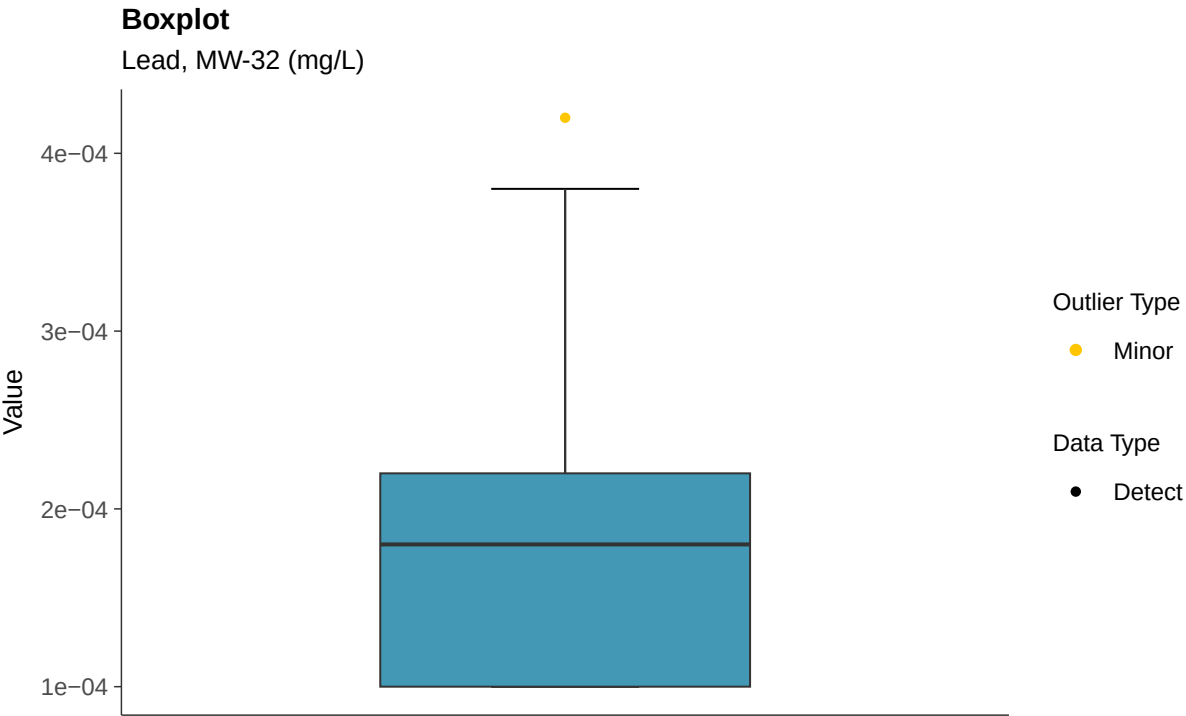




Appendix IV: Lead, MW-32

ID: 42_1_4_115

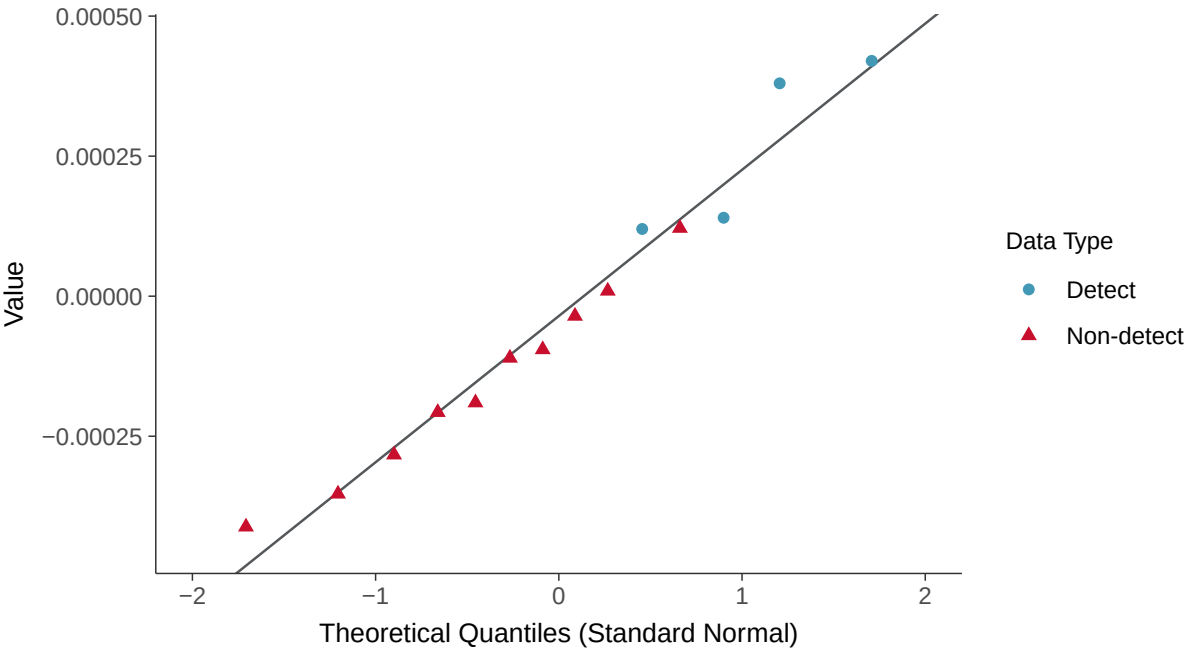






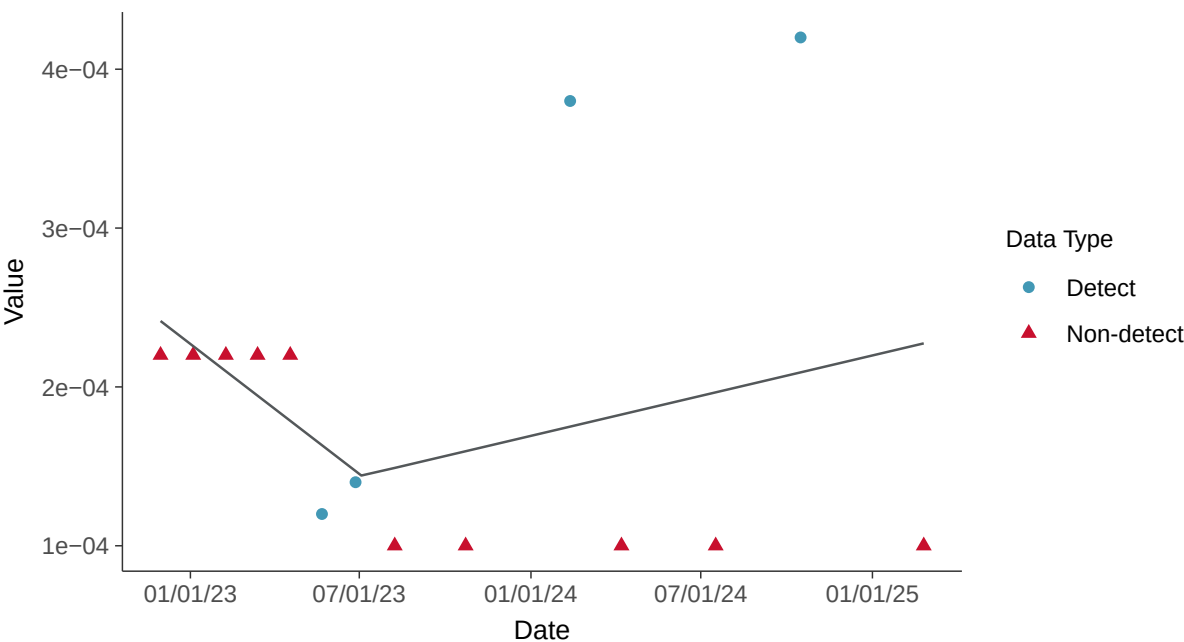
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear

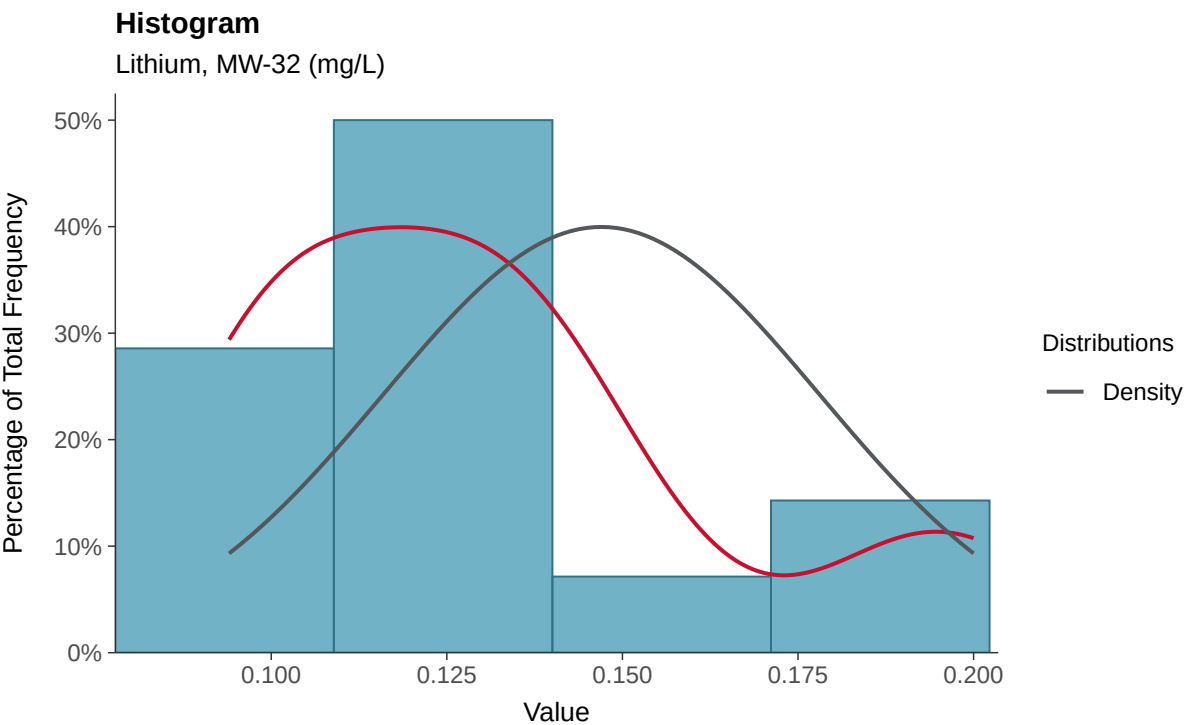
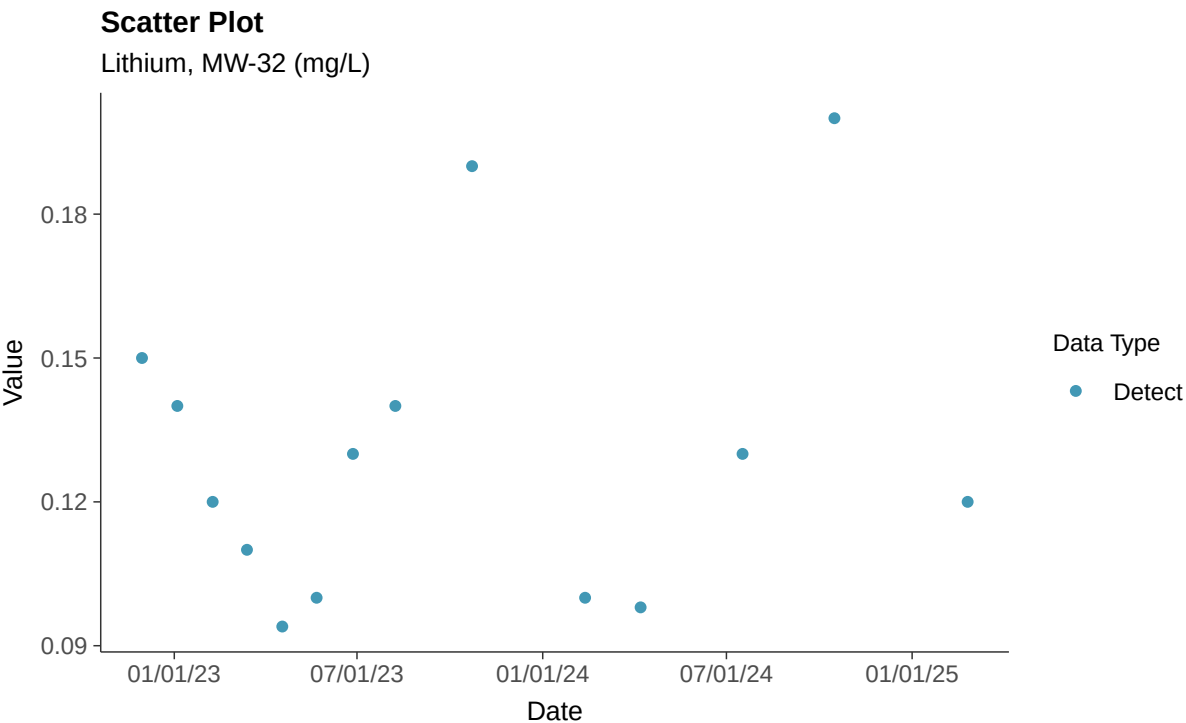
Lead, MW-32 (mg/L)

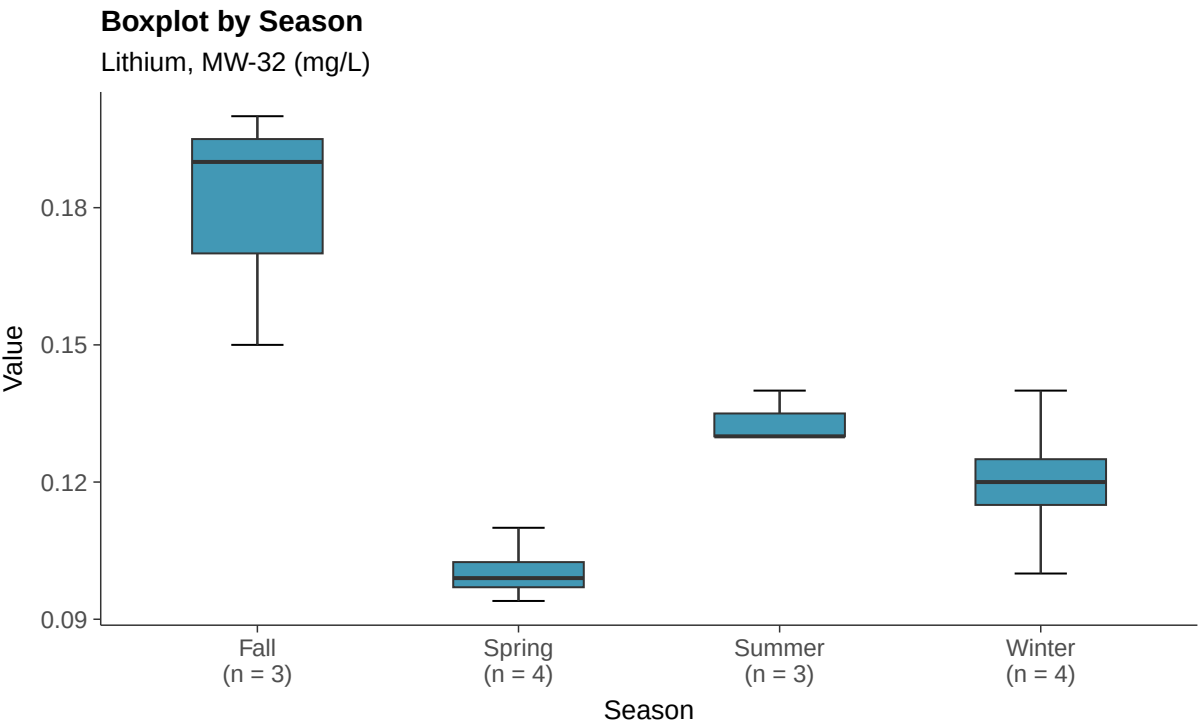
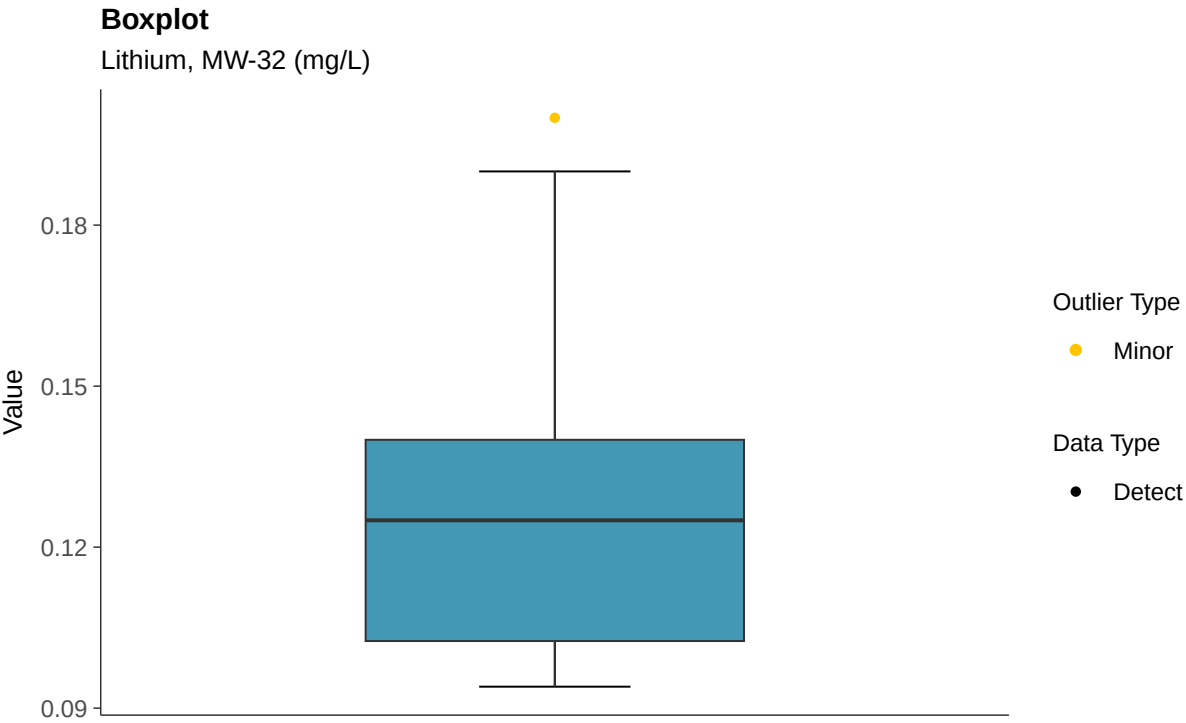


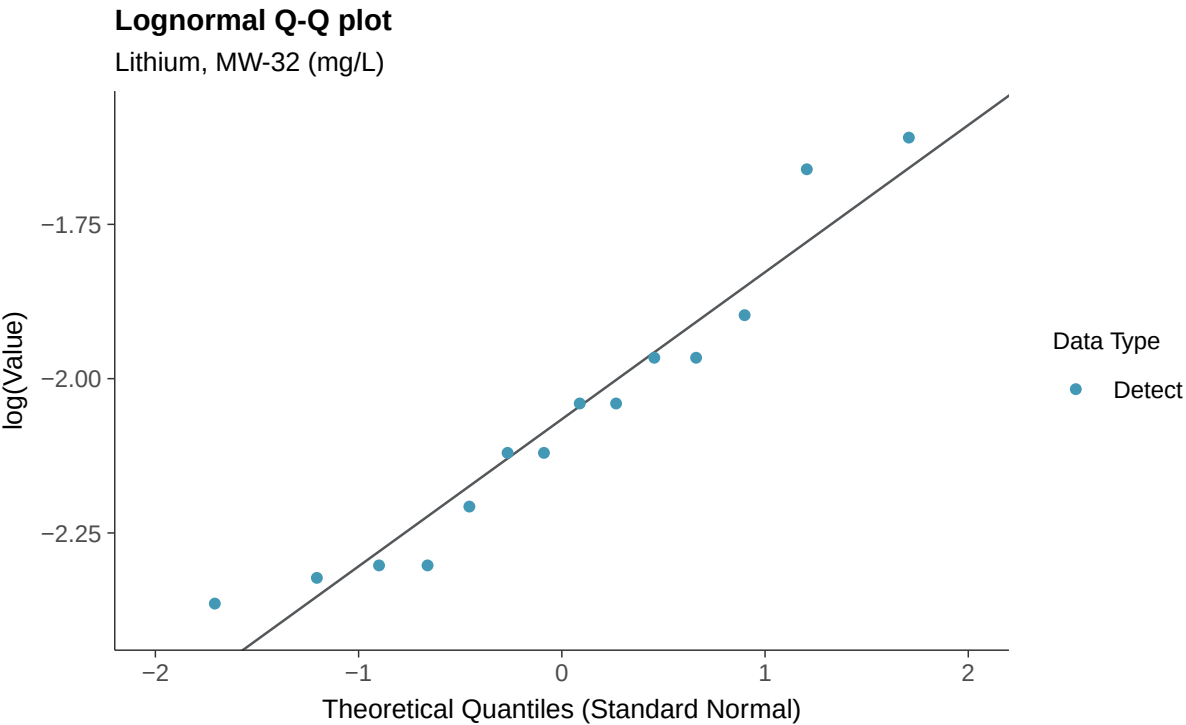
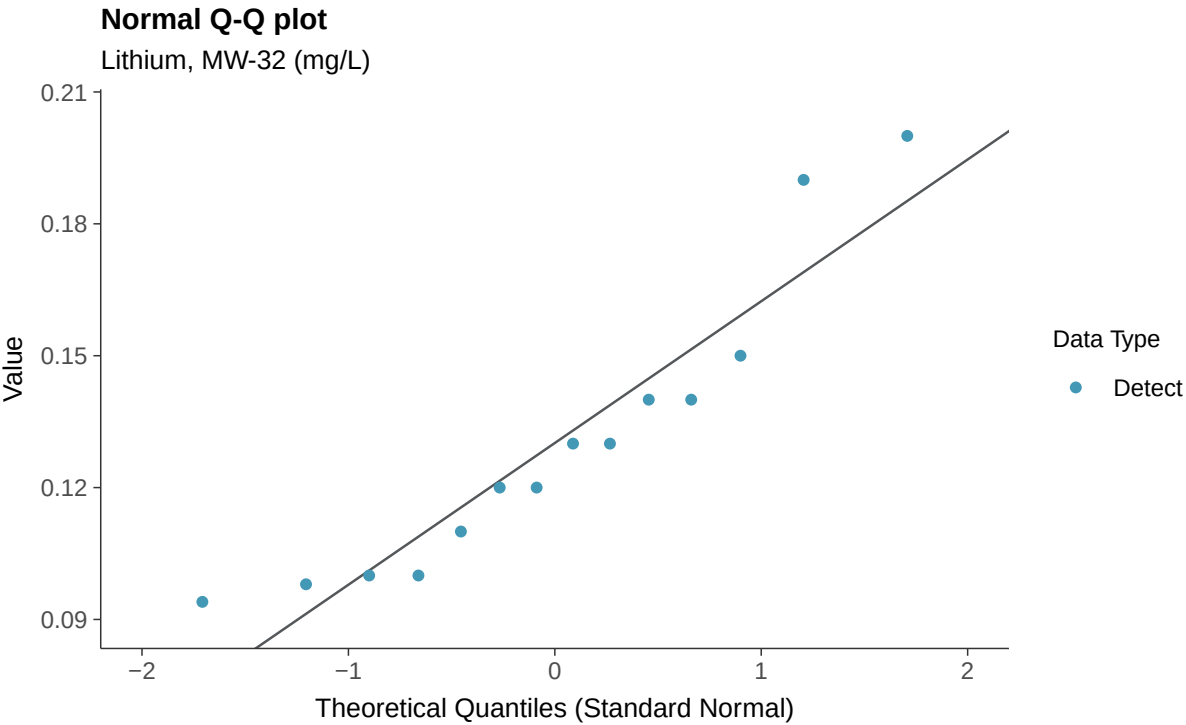


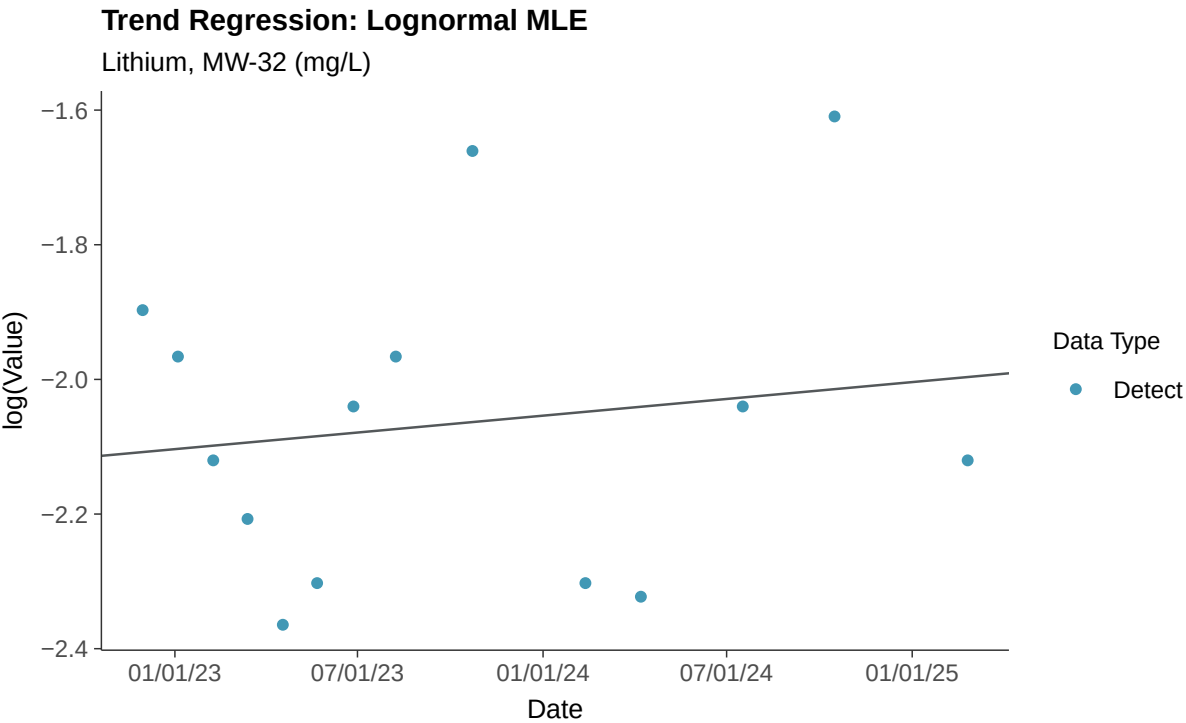
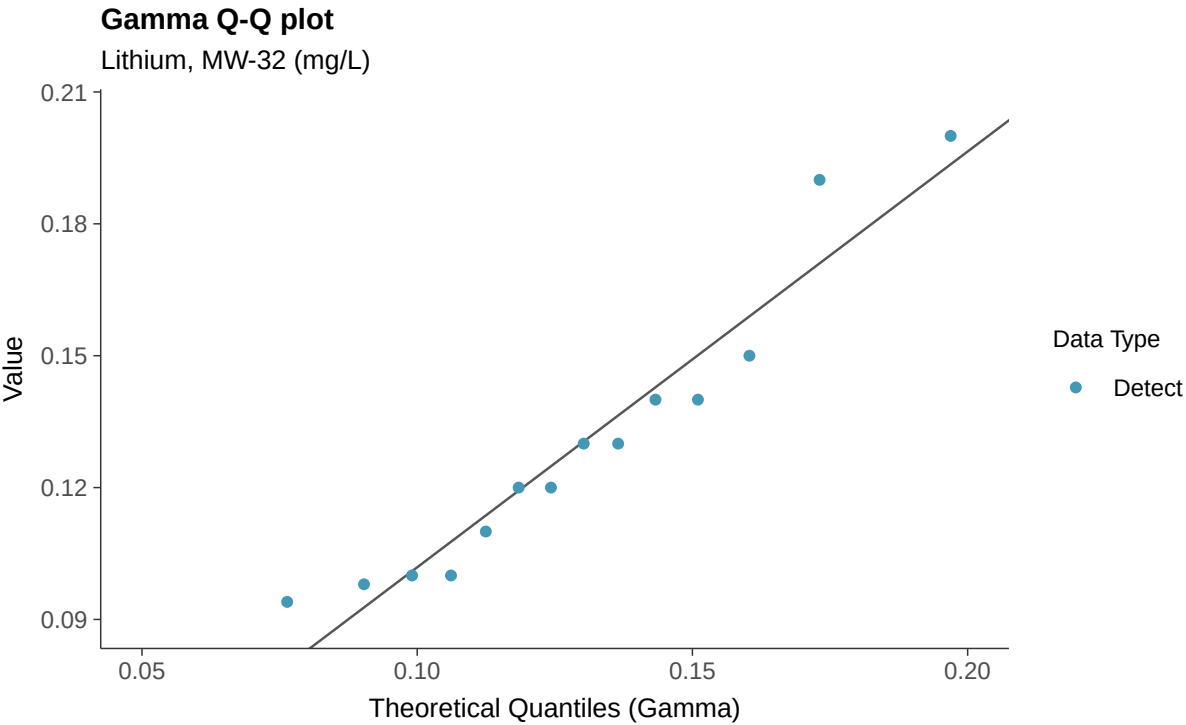
Appendix IV: Lithium, MW-32

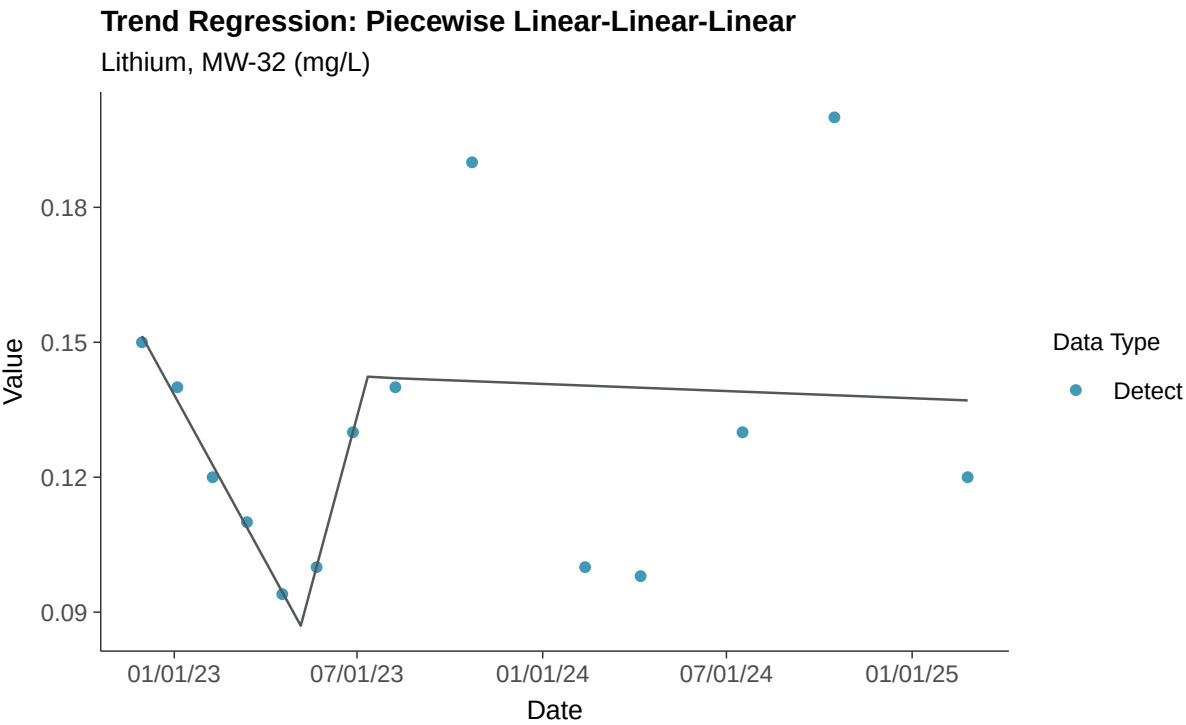
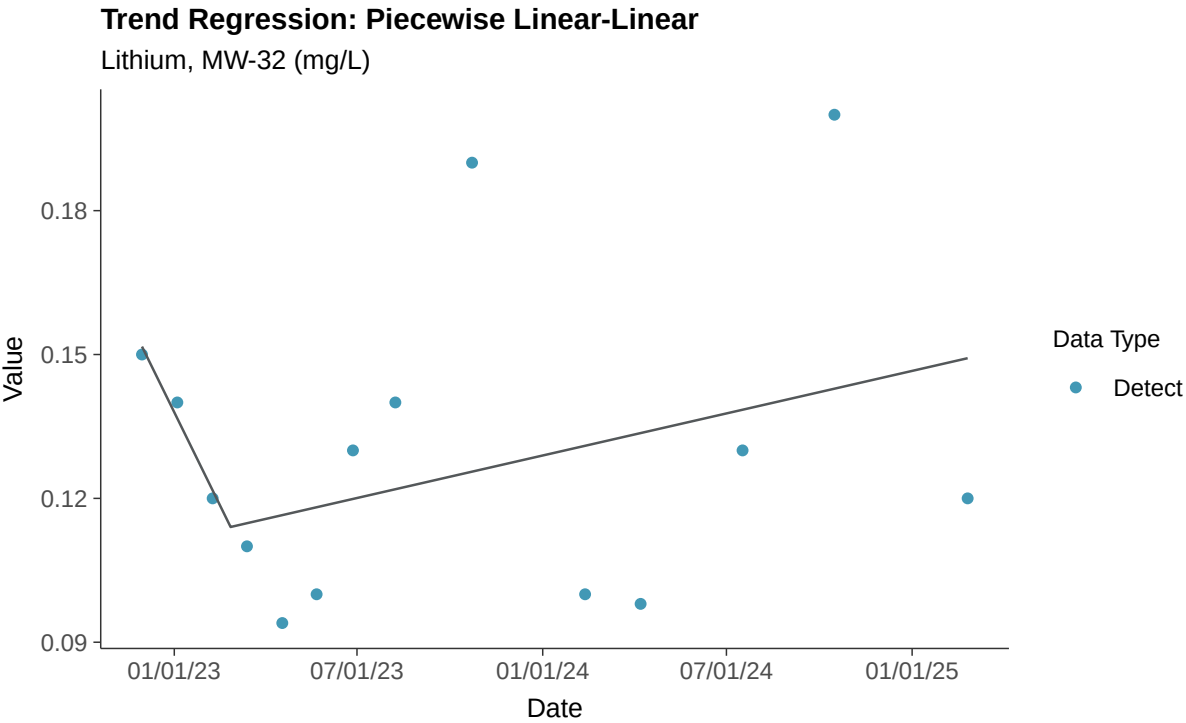
ID: 42_1_4_116







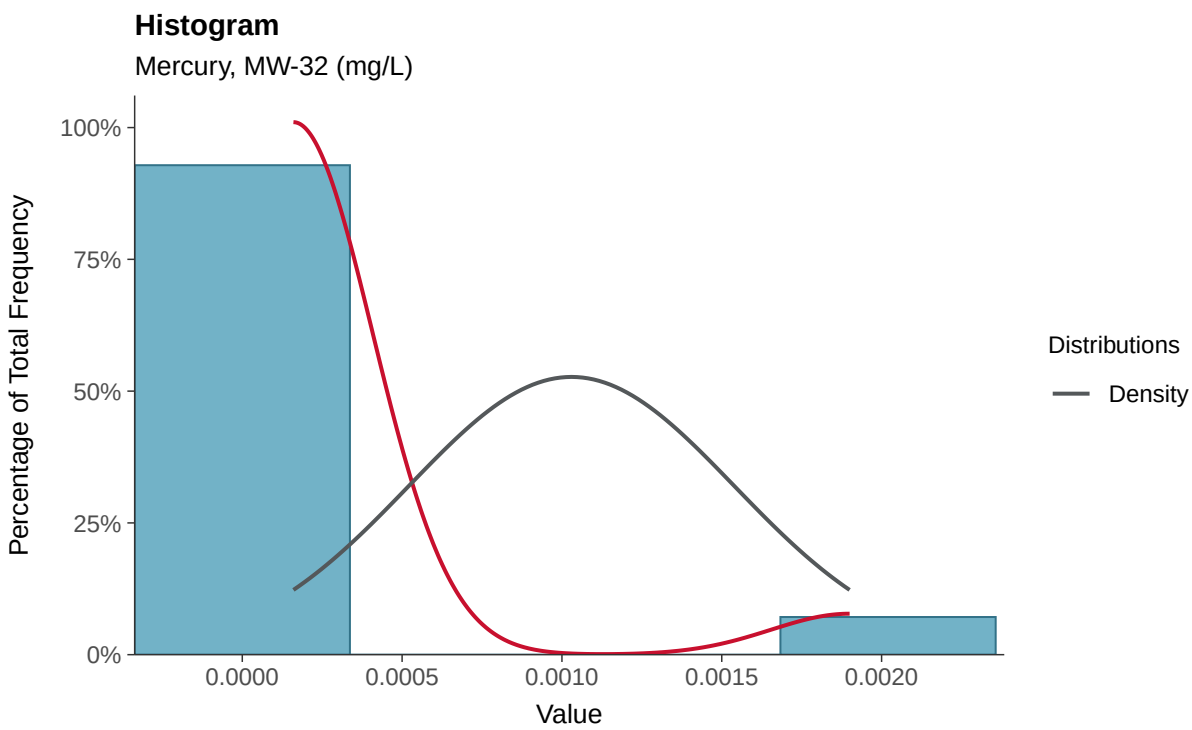
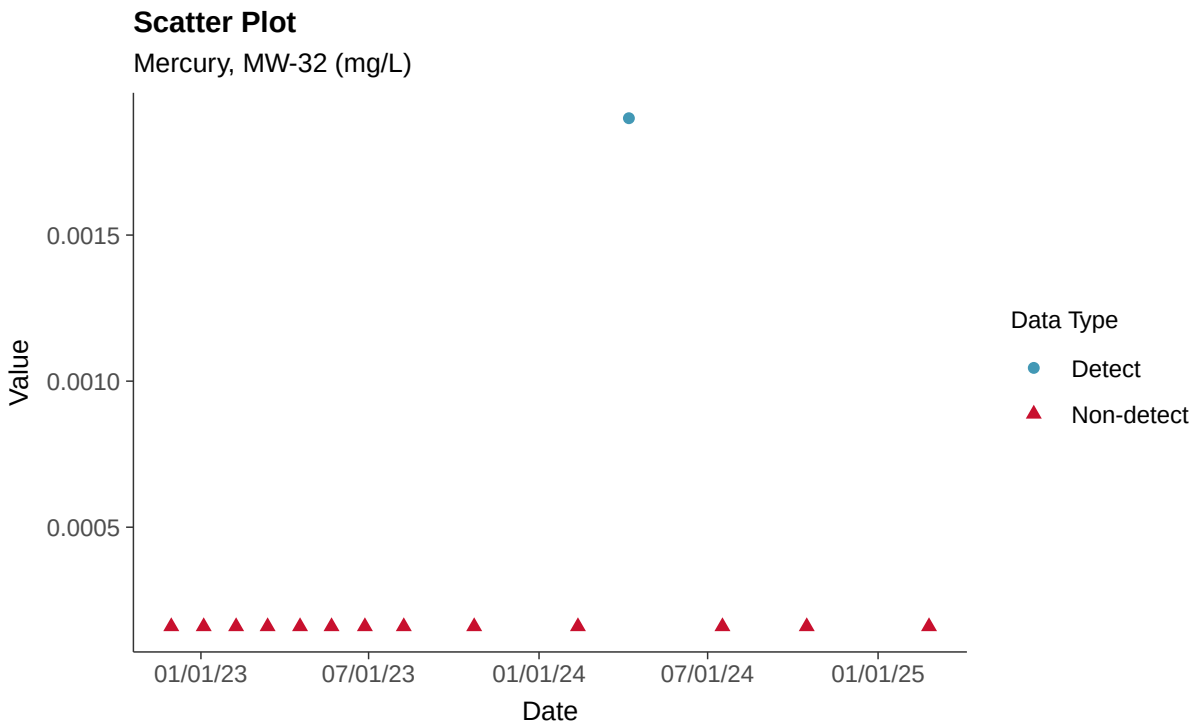


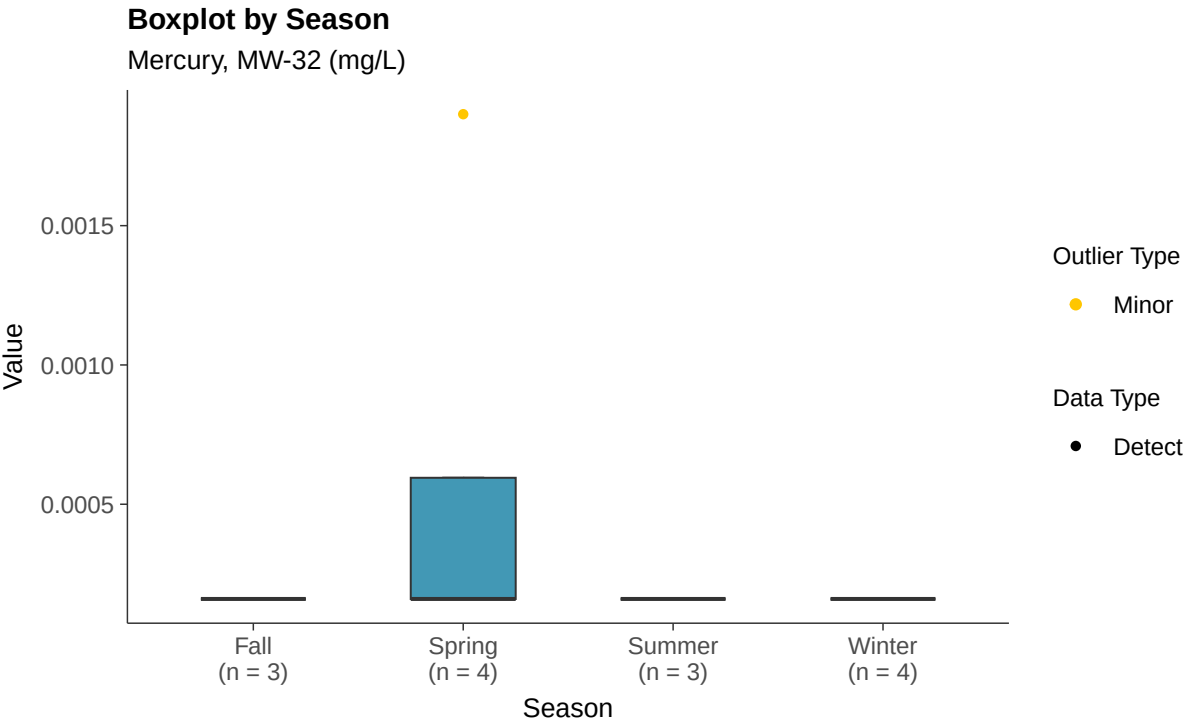
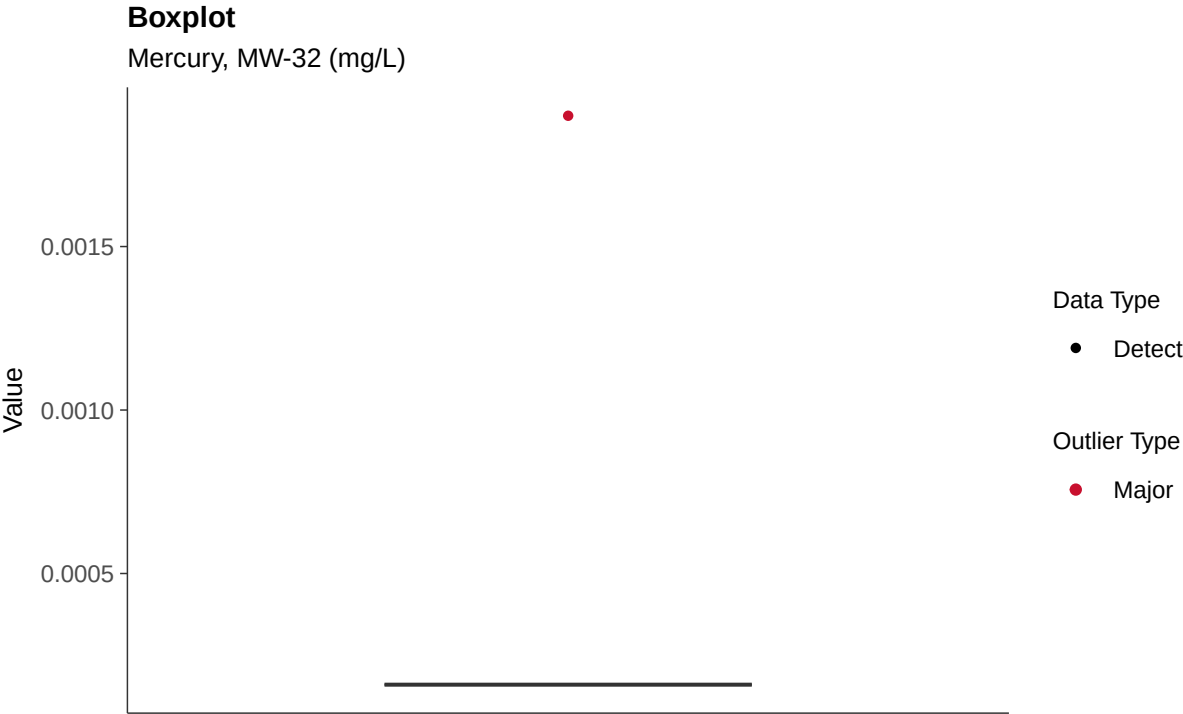


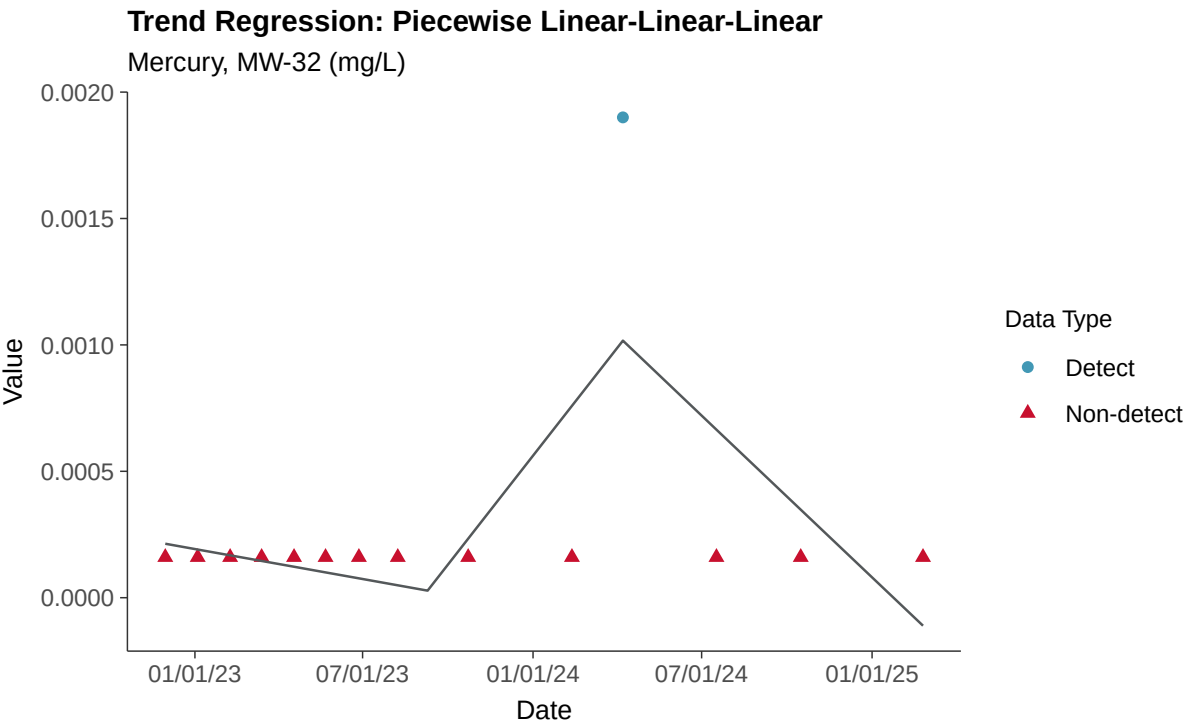
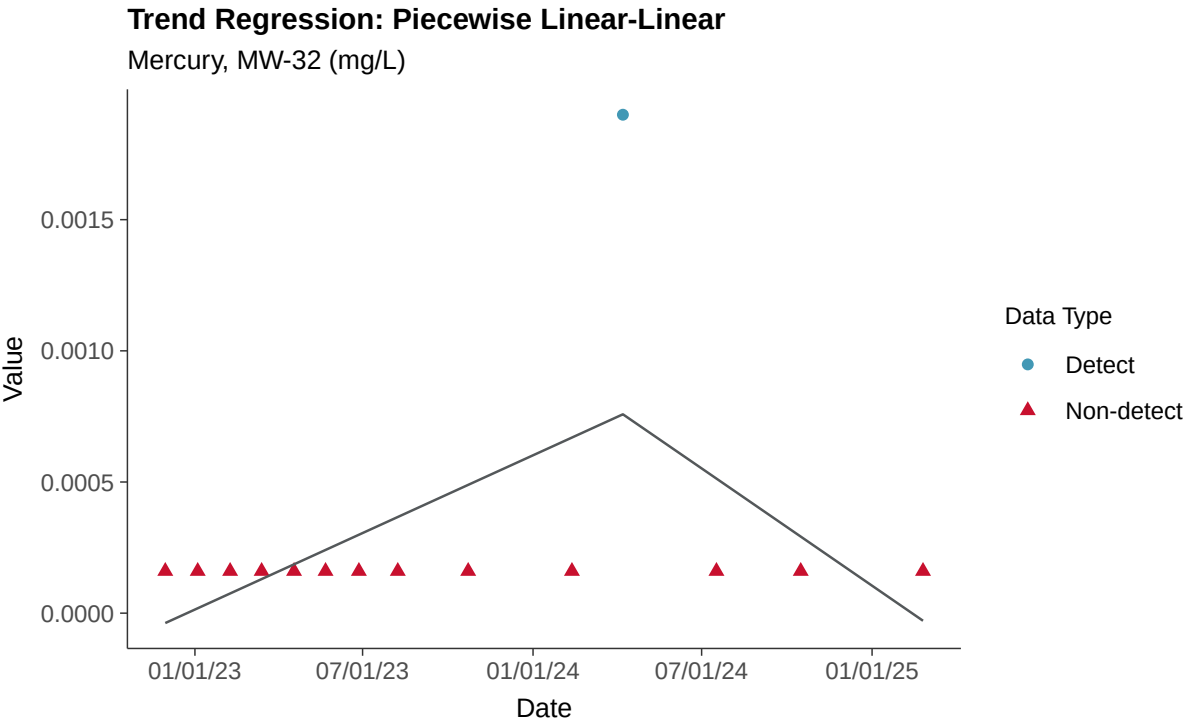


Appendix IV: Mercury, MW-32

ID: 42_1_4_117



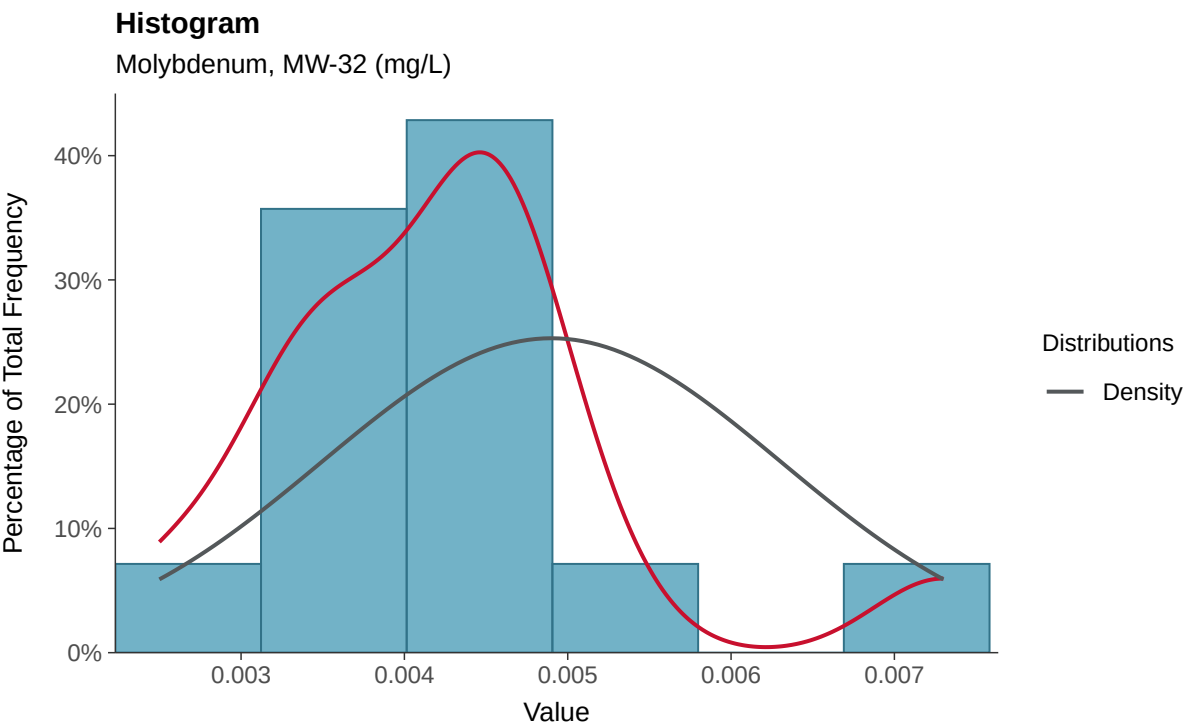
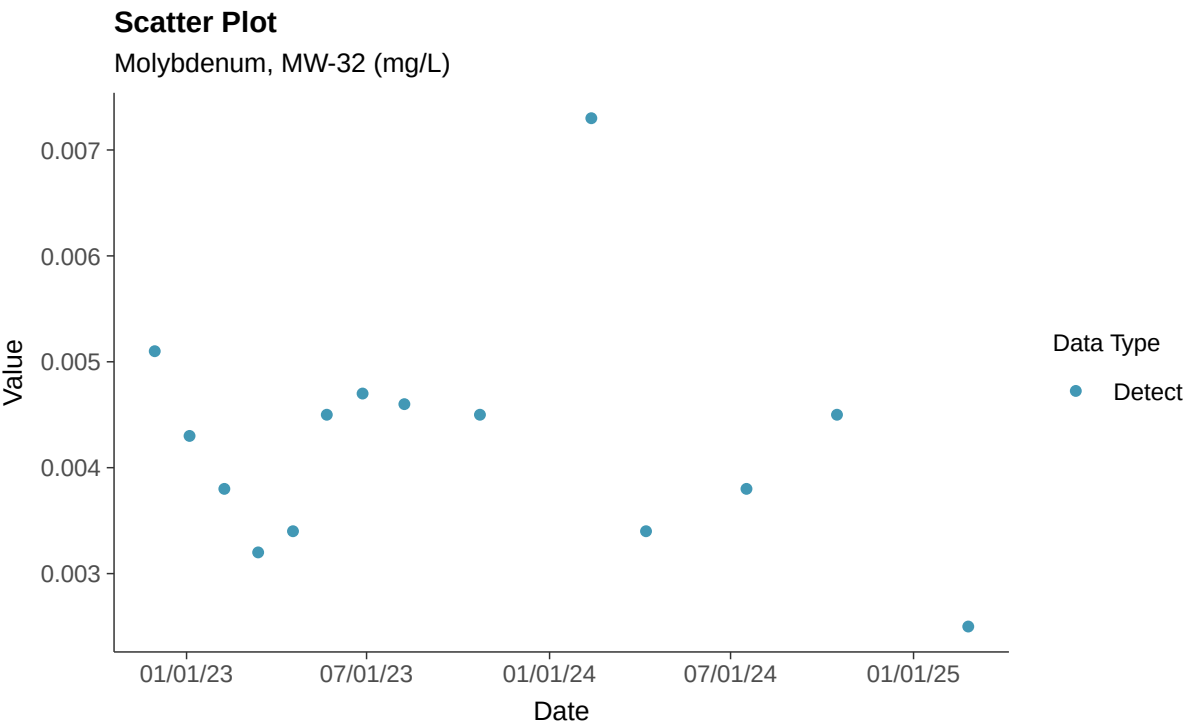


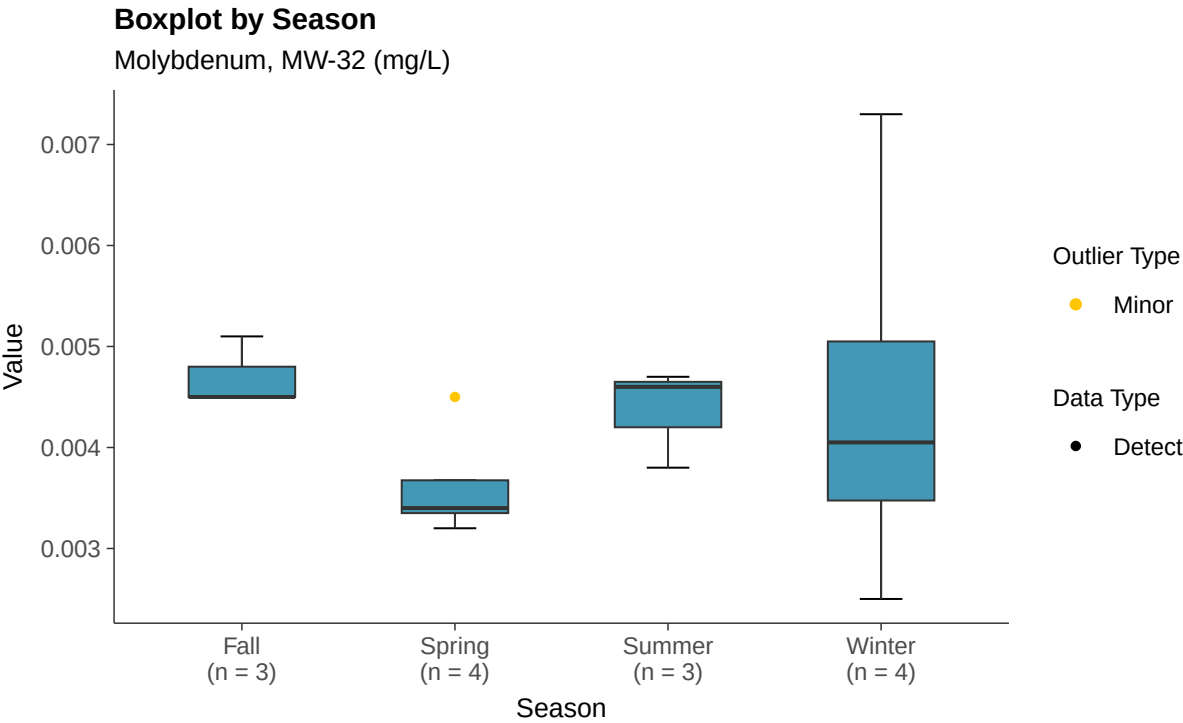
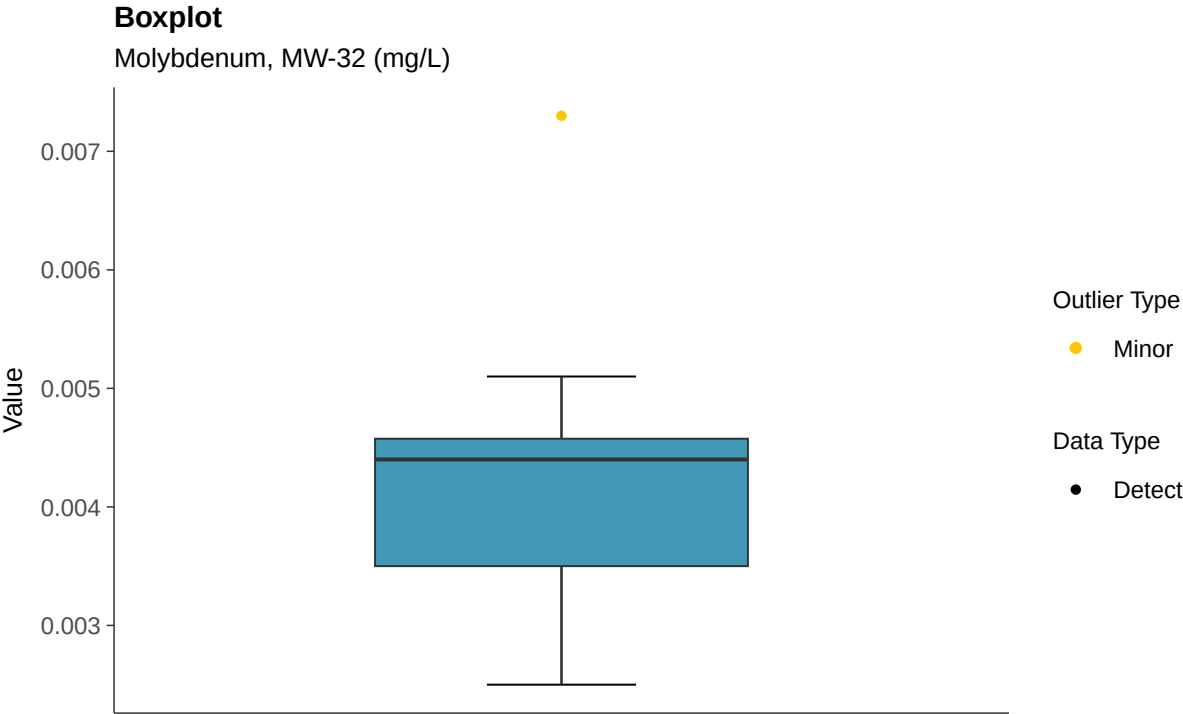


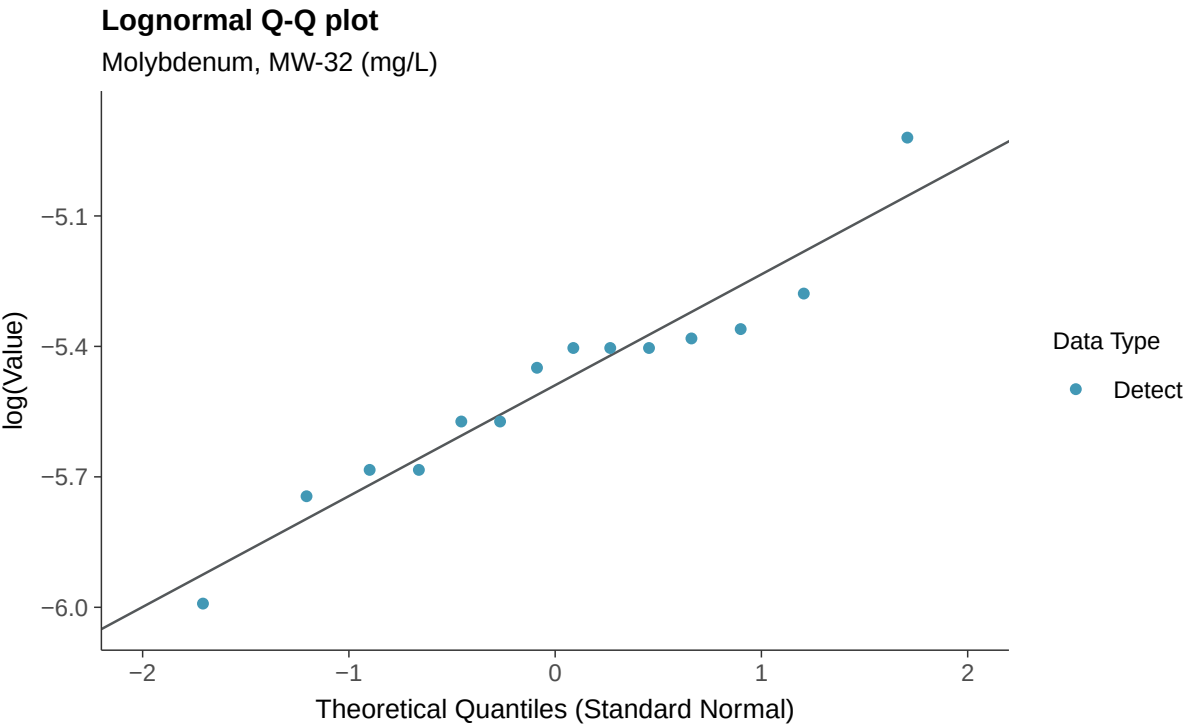
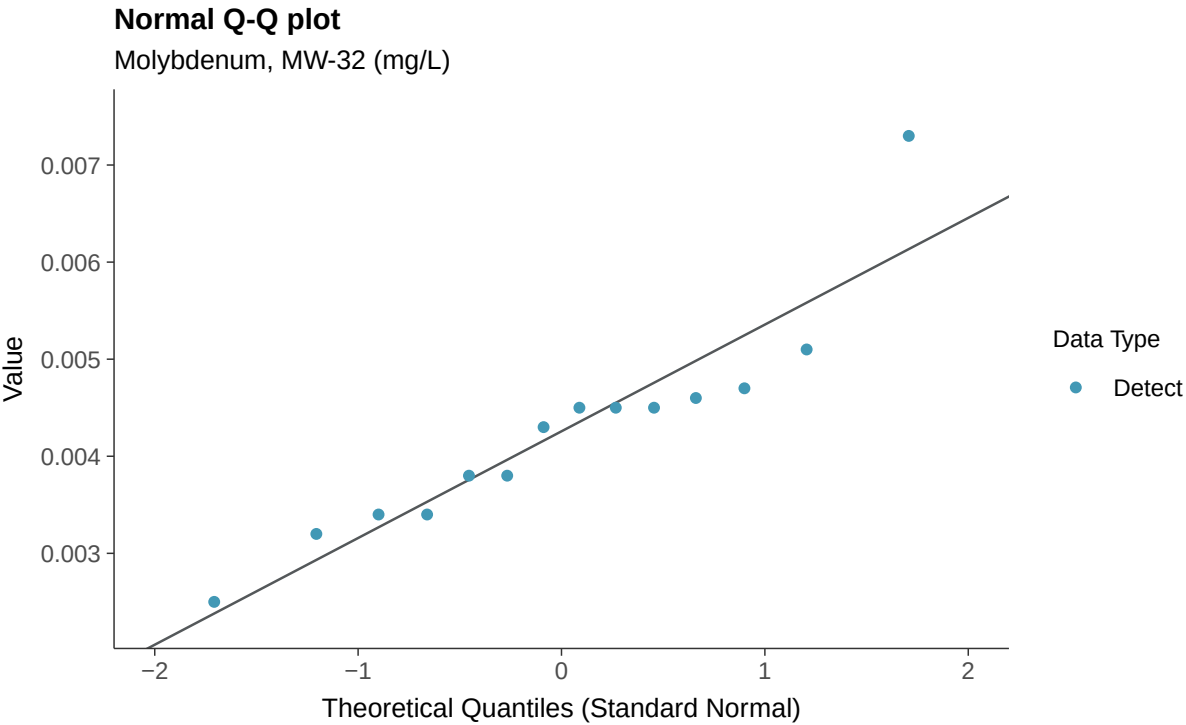


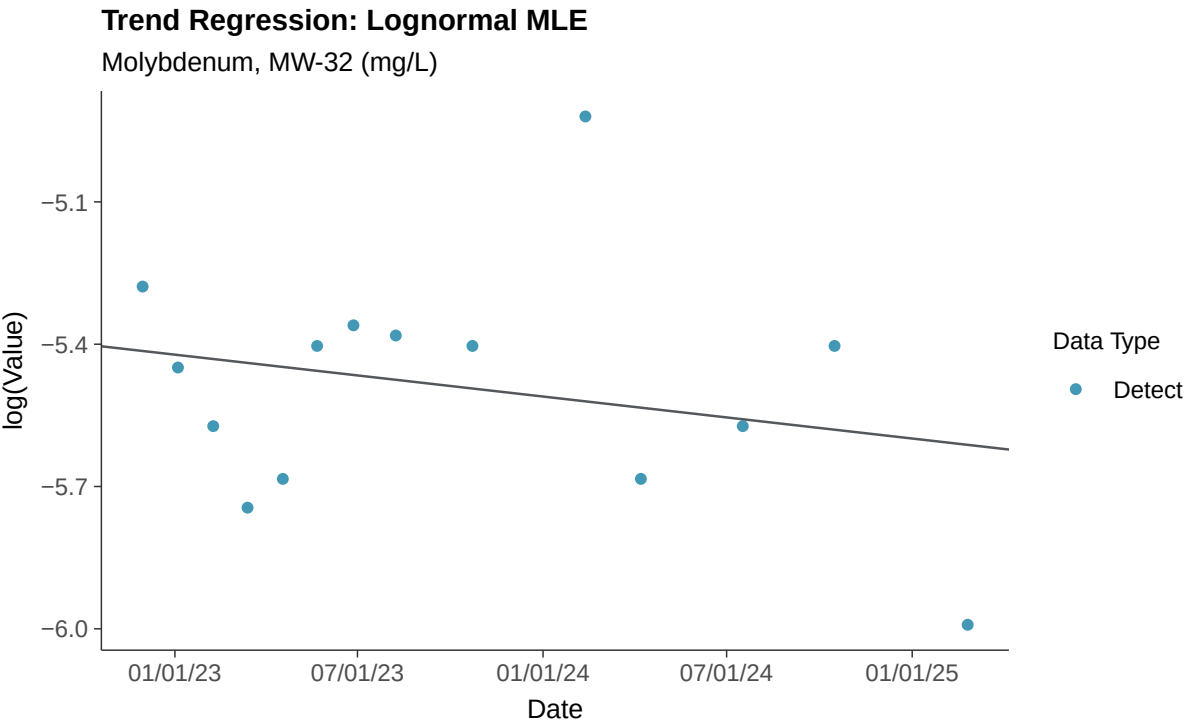
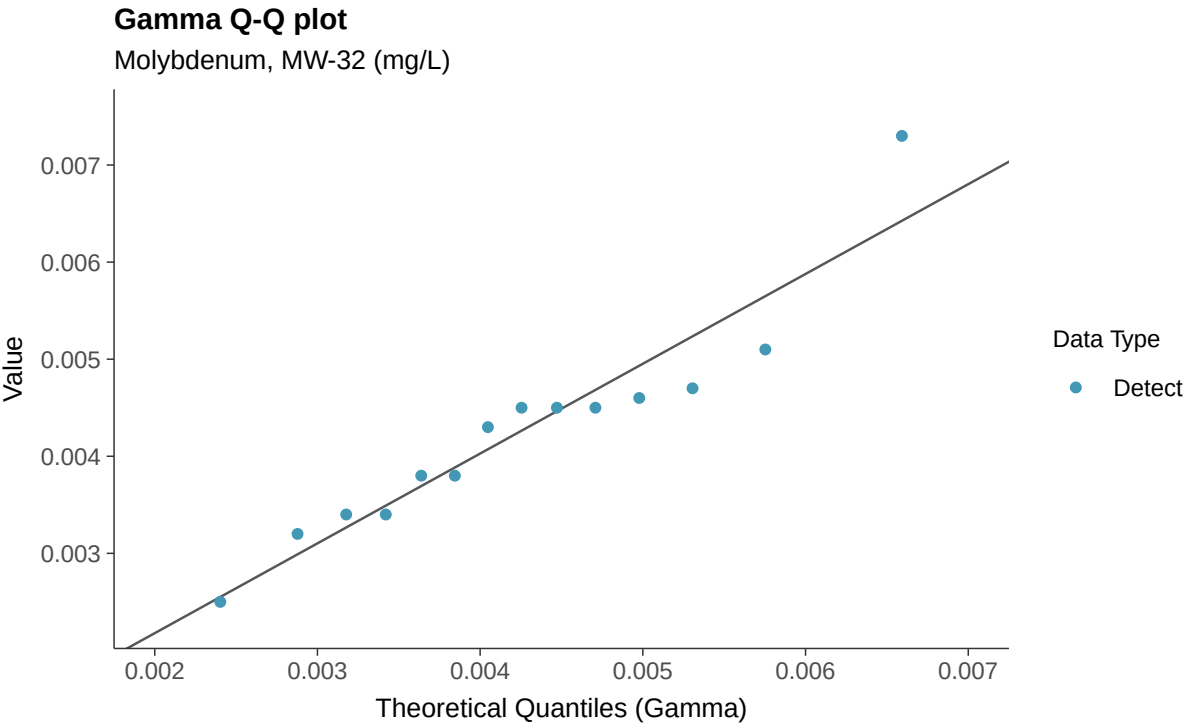
Appendix IV: Molybdenum, MW-32

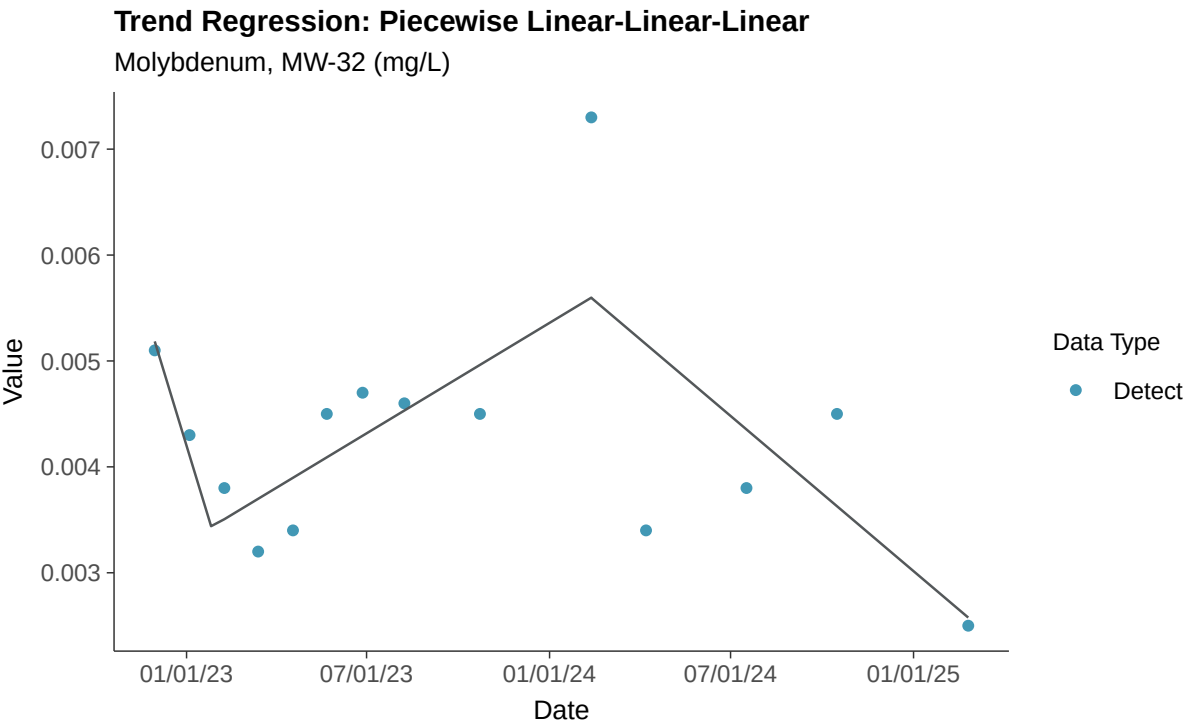
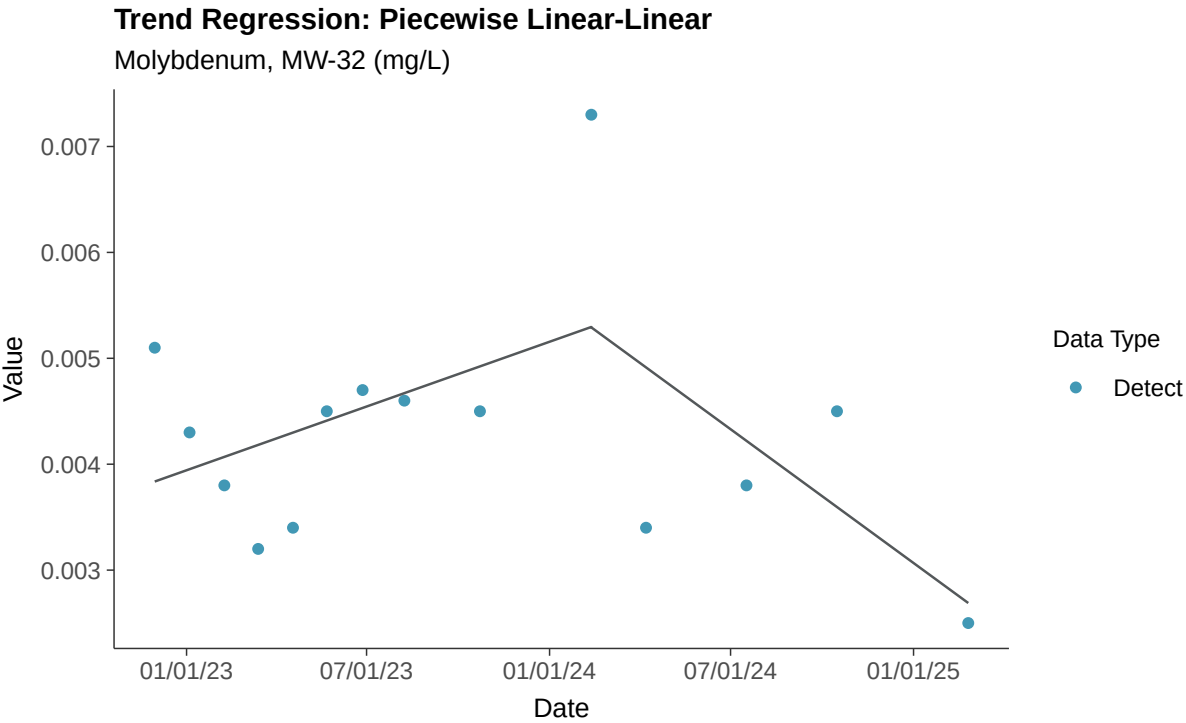
ID: 42_1_4_118







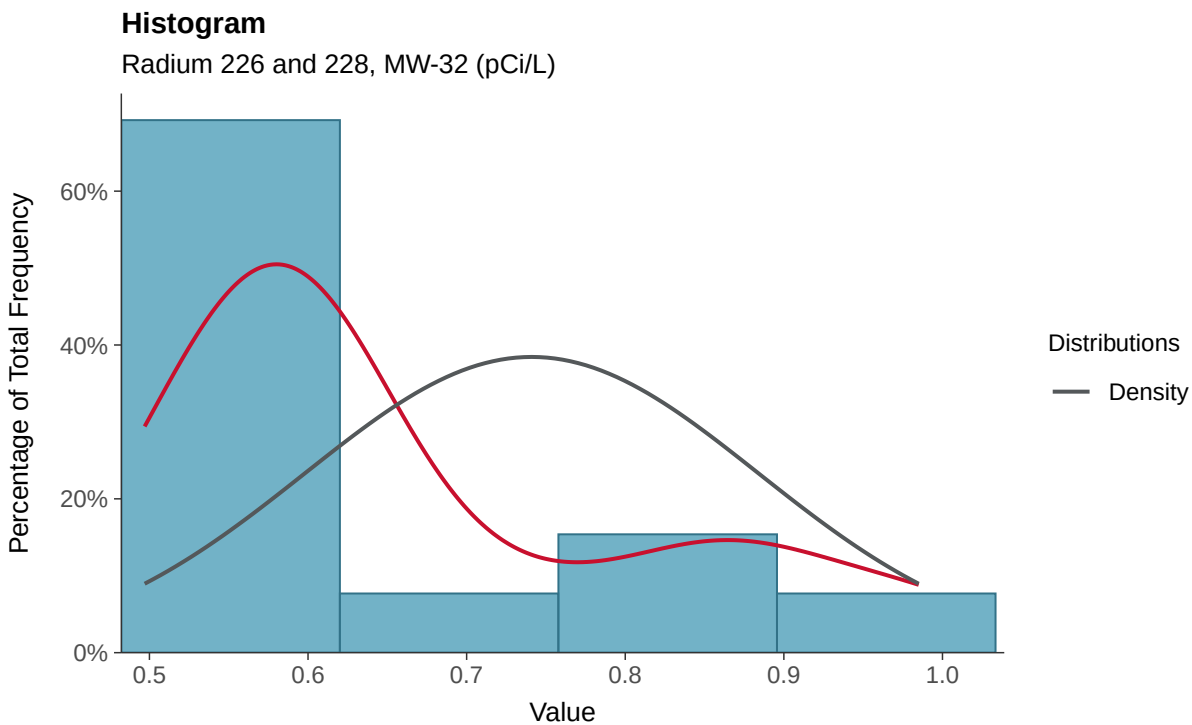
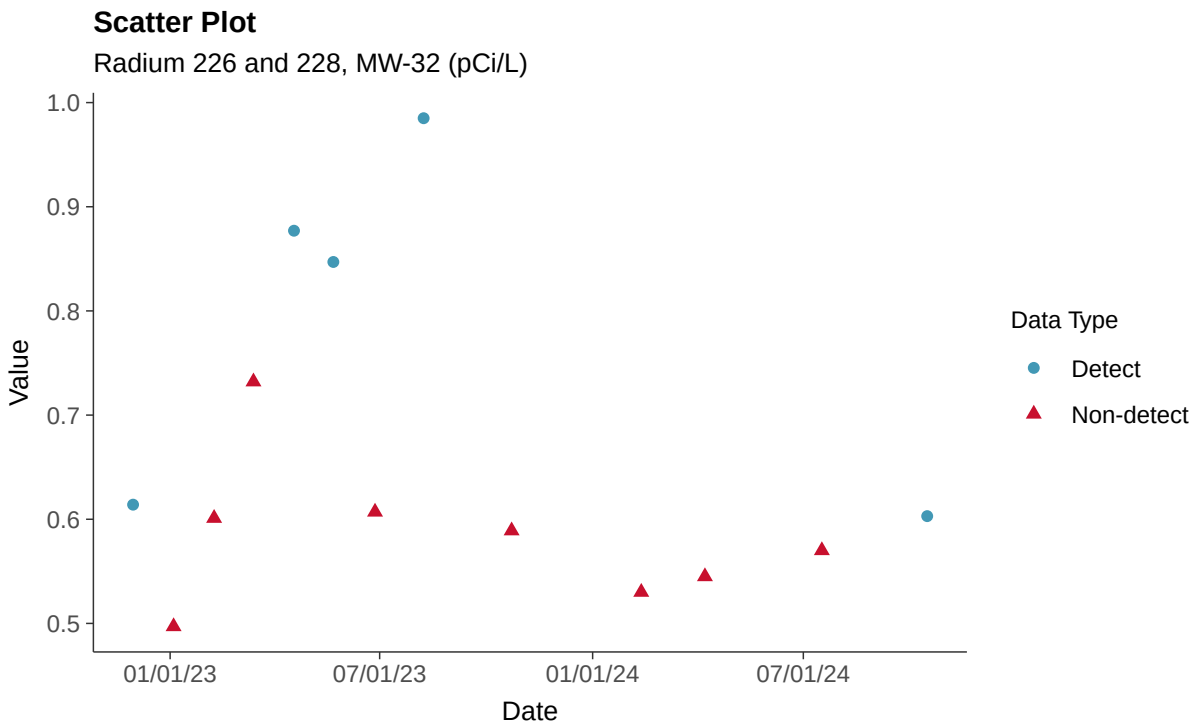






Appendix IV: Radium 226 and 228, MW-32

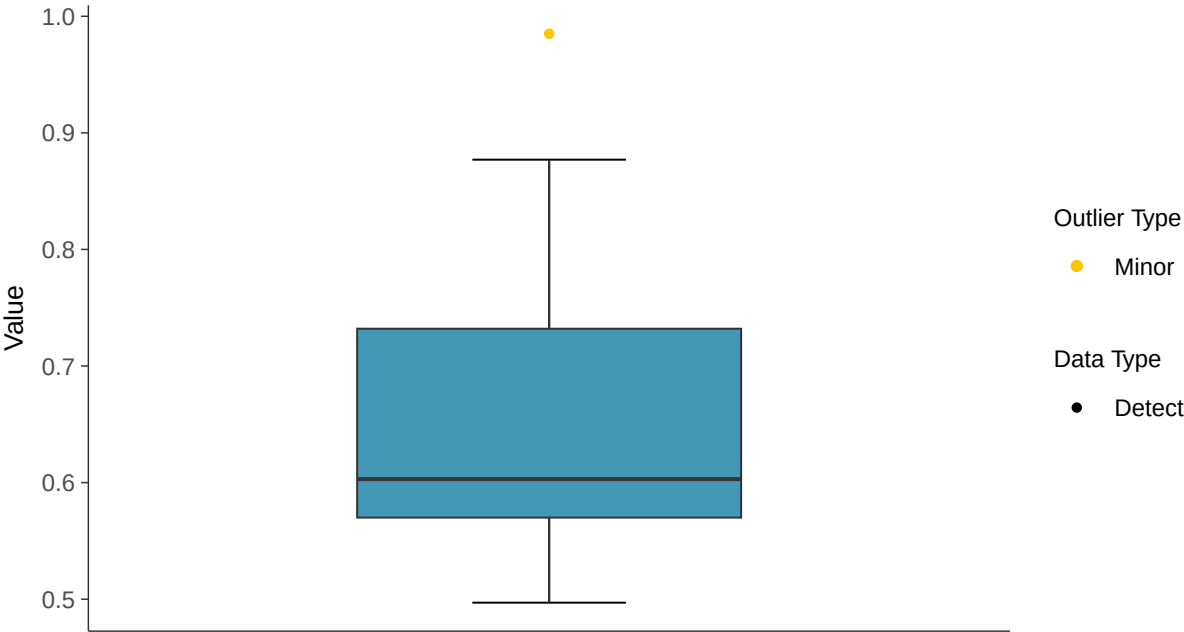
ID: 42_1_4_121





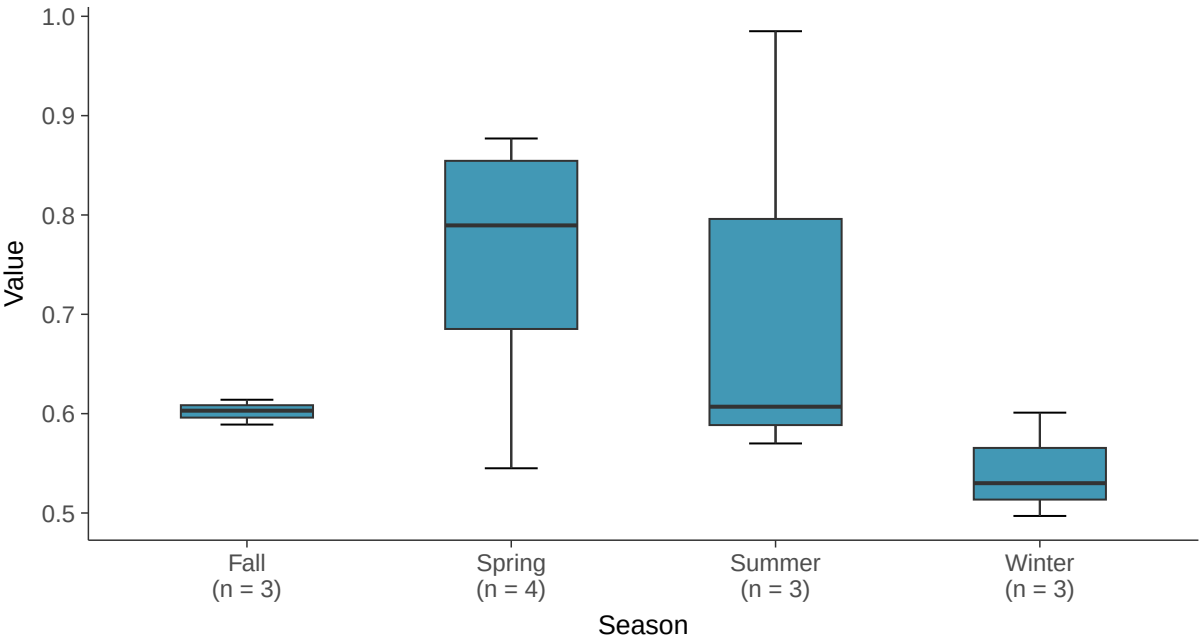
Boxplot

Radium 226 and 228, MW-32 (pCi/L)



Boxplot by Season

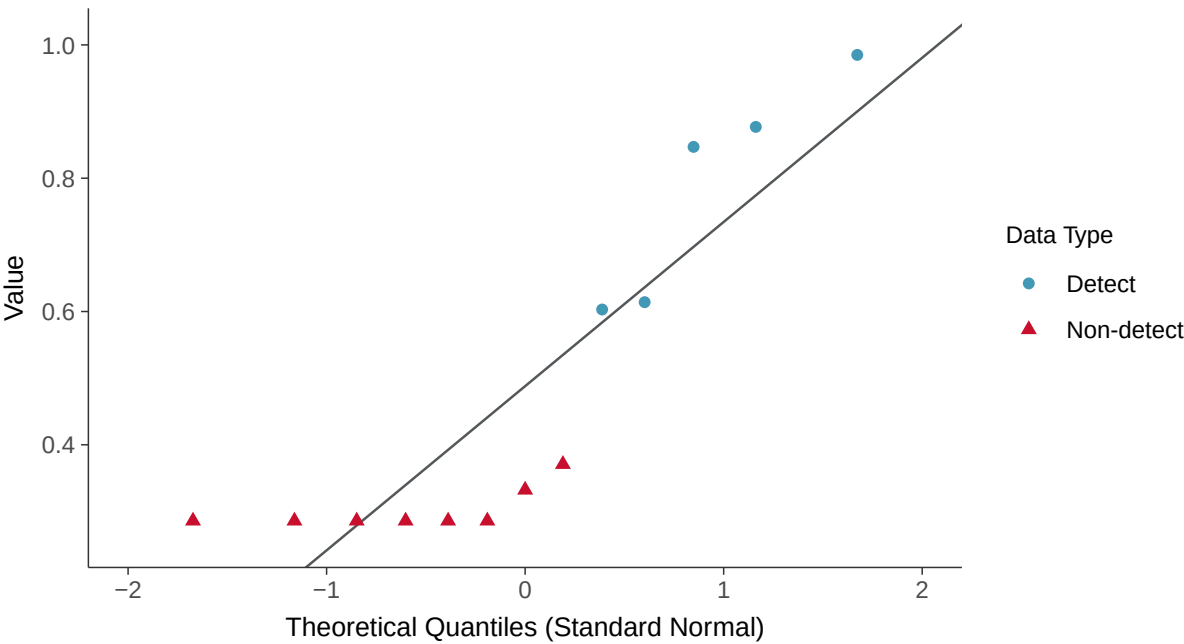
Radium 226 and 228, MW-32 (pCi/L)





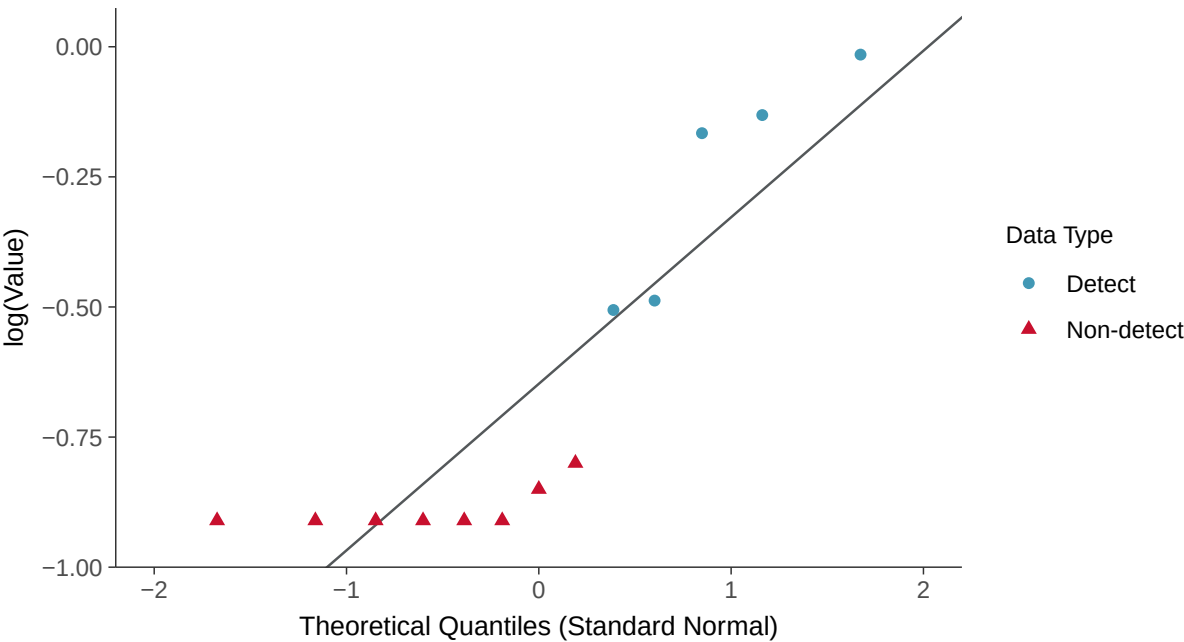
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

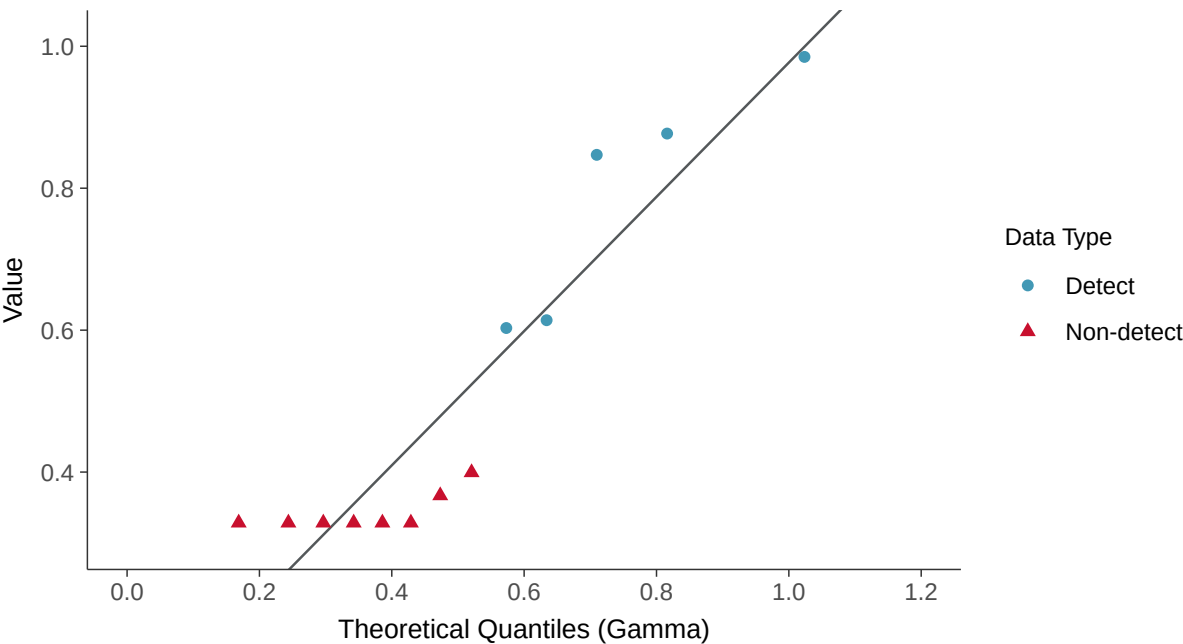
Radium 226 and 228, MW-32 (pCi/L)





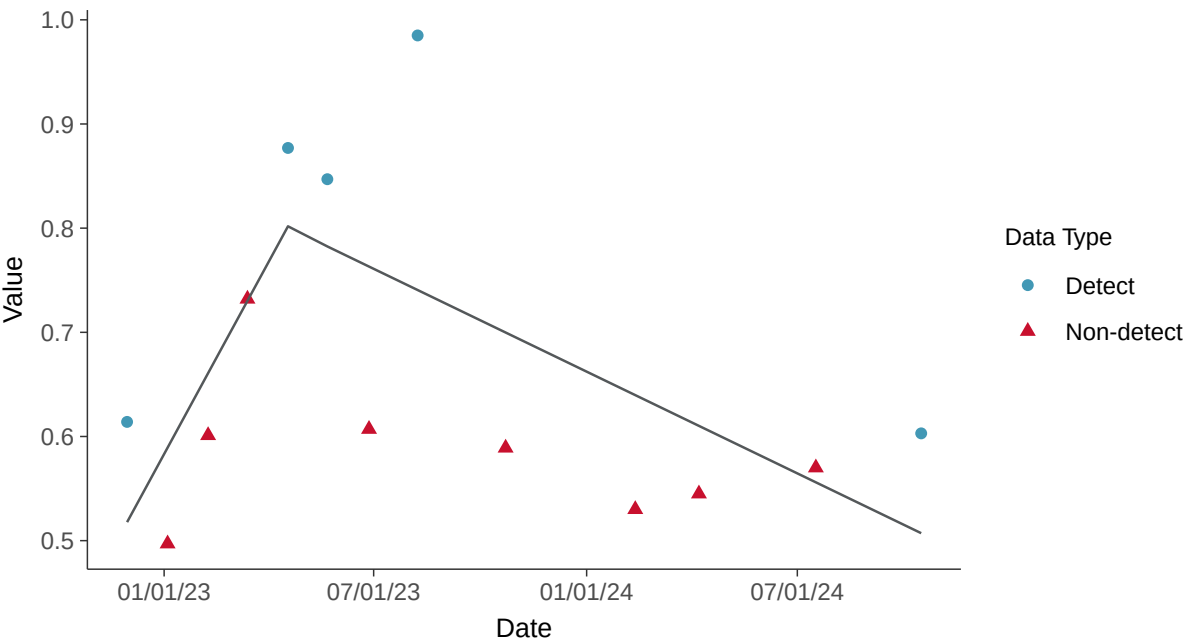
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



Trend Regression: Piecewise Linear-Linear

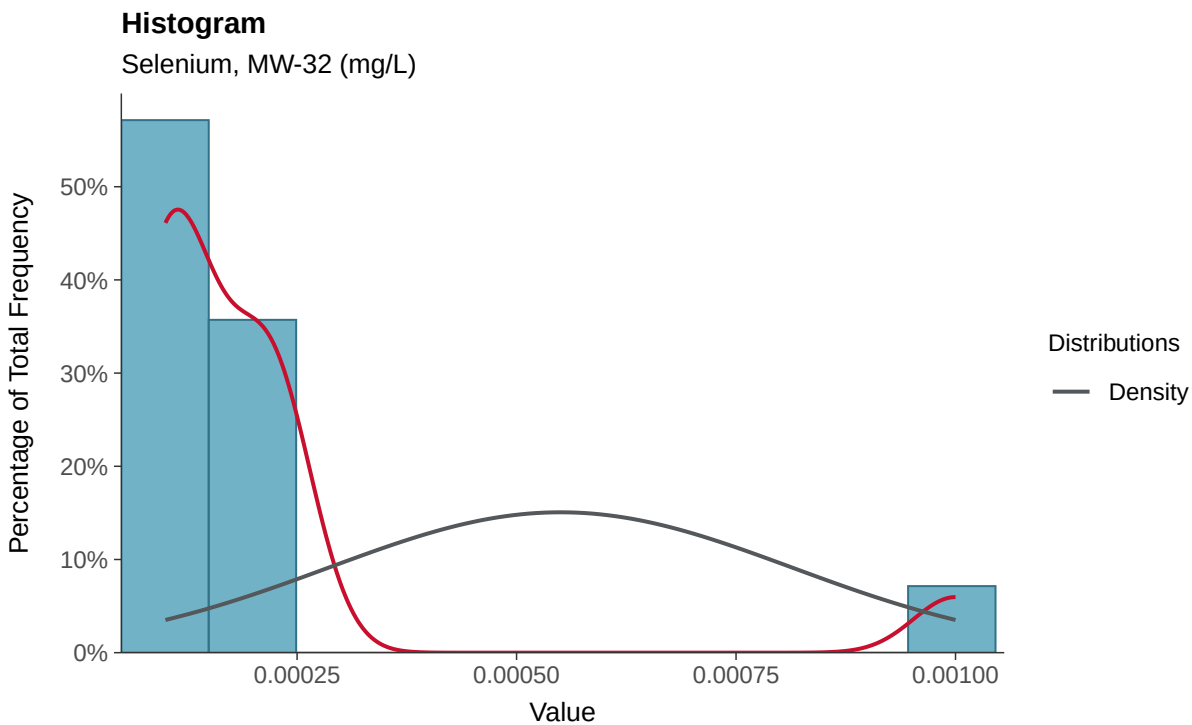
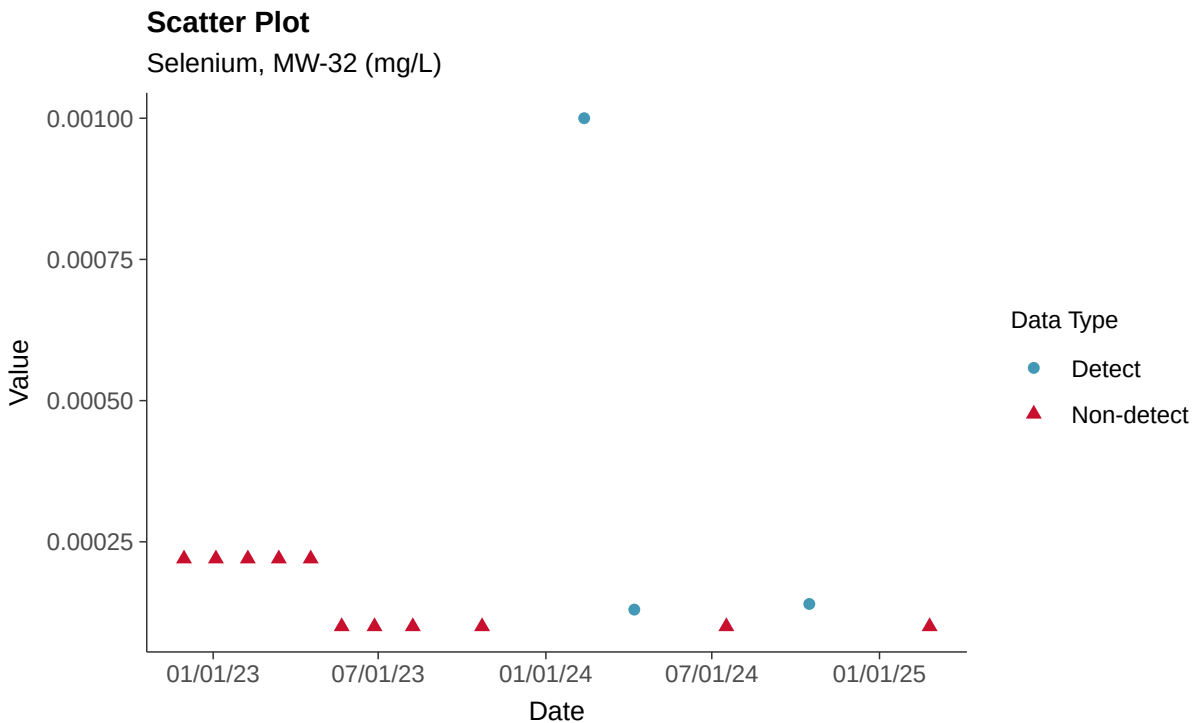
Radium 226 and 228, MW-32 (pCi/L)

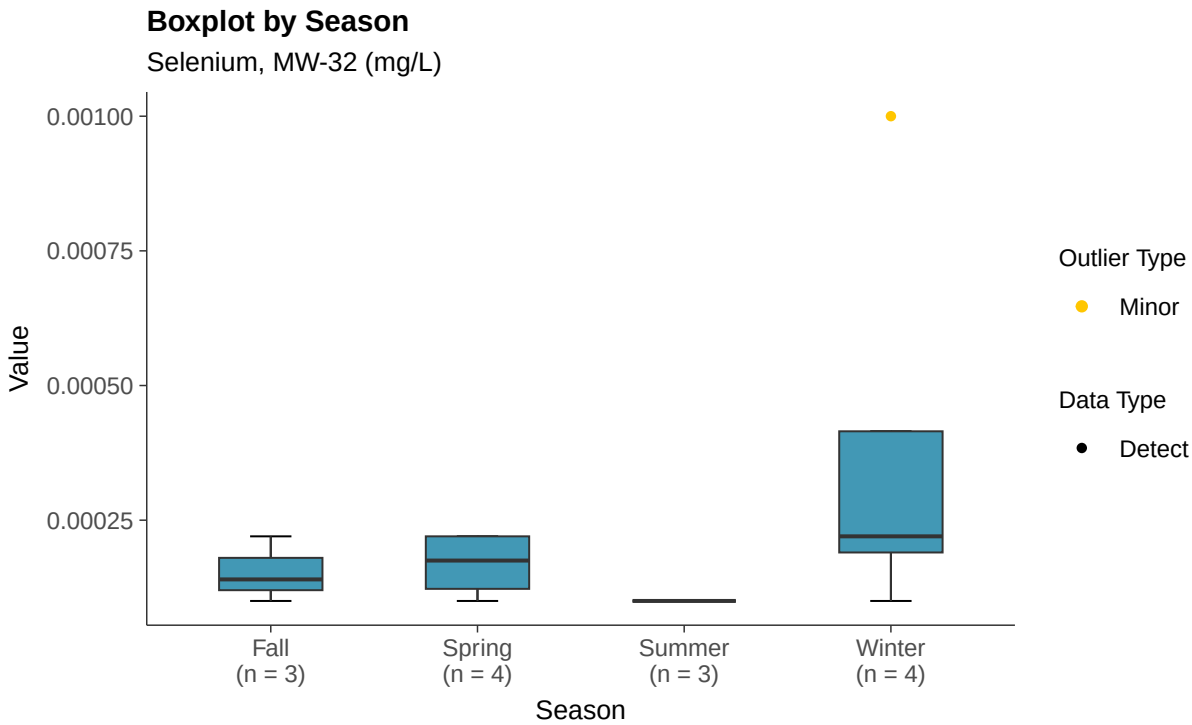
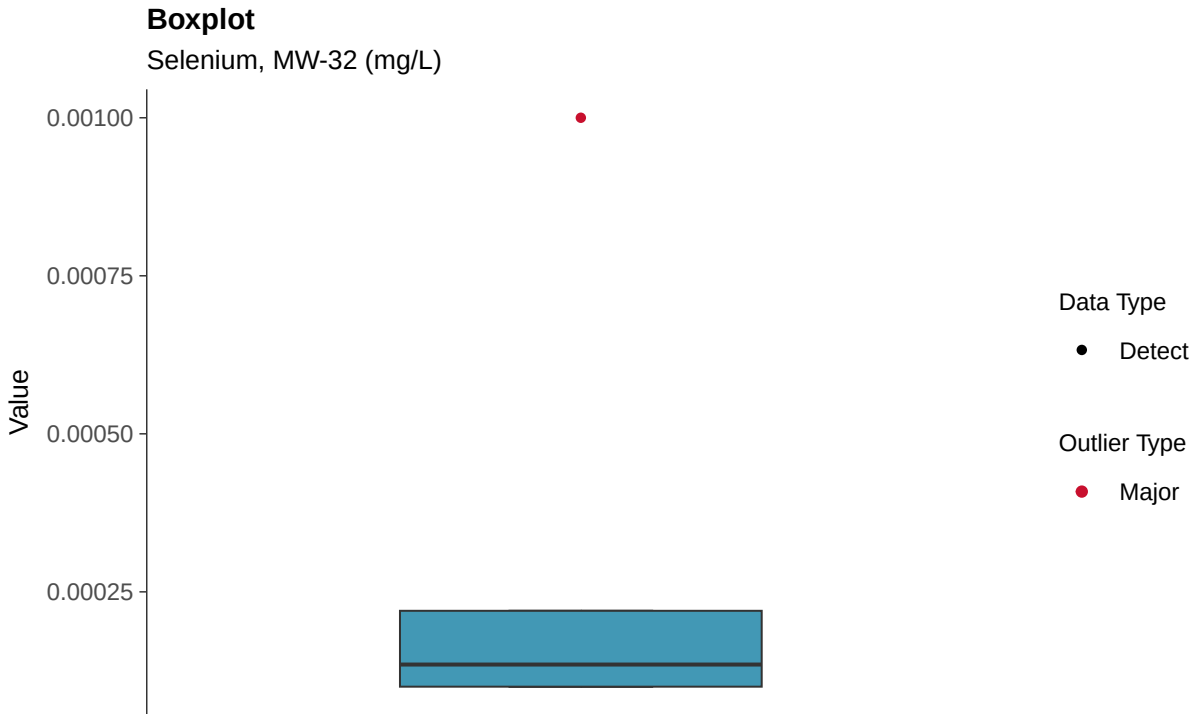


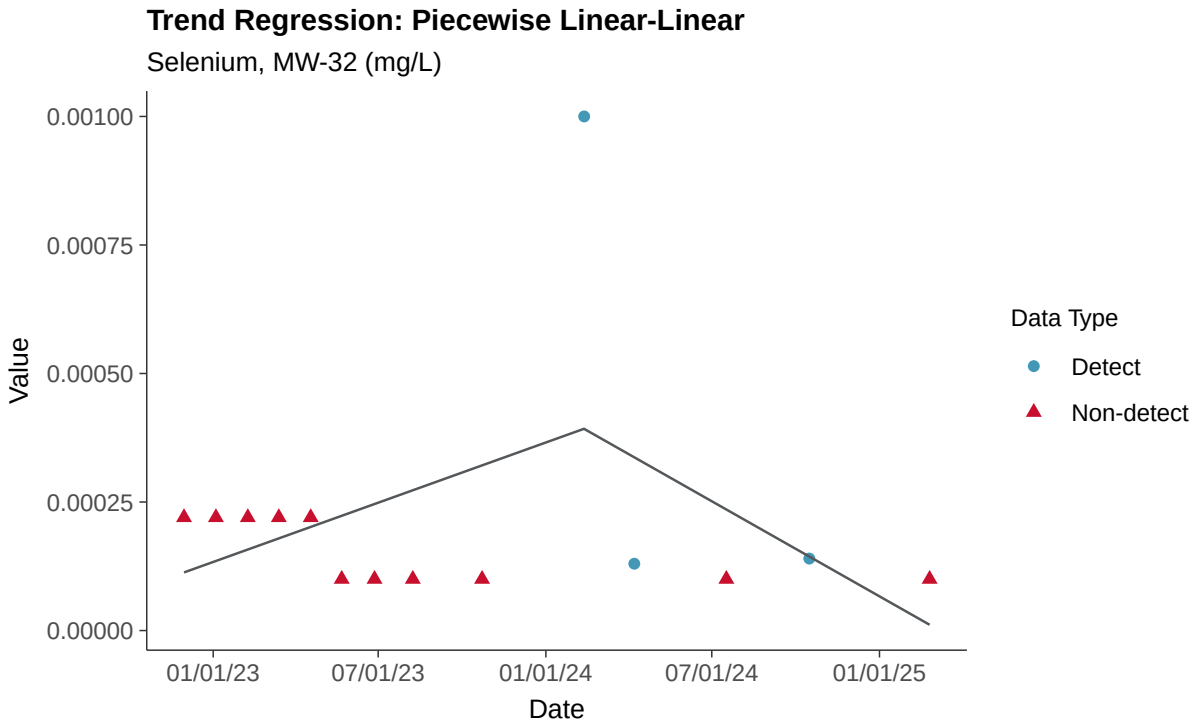
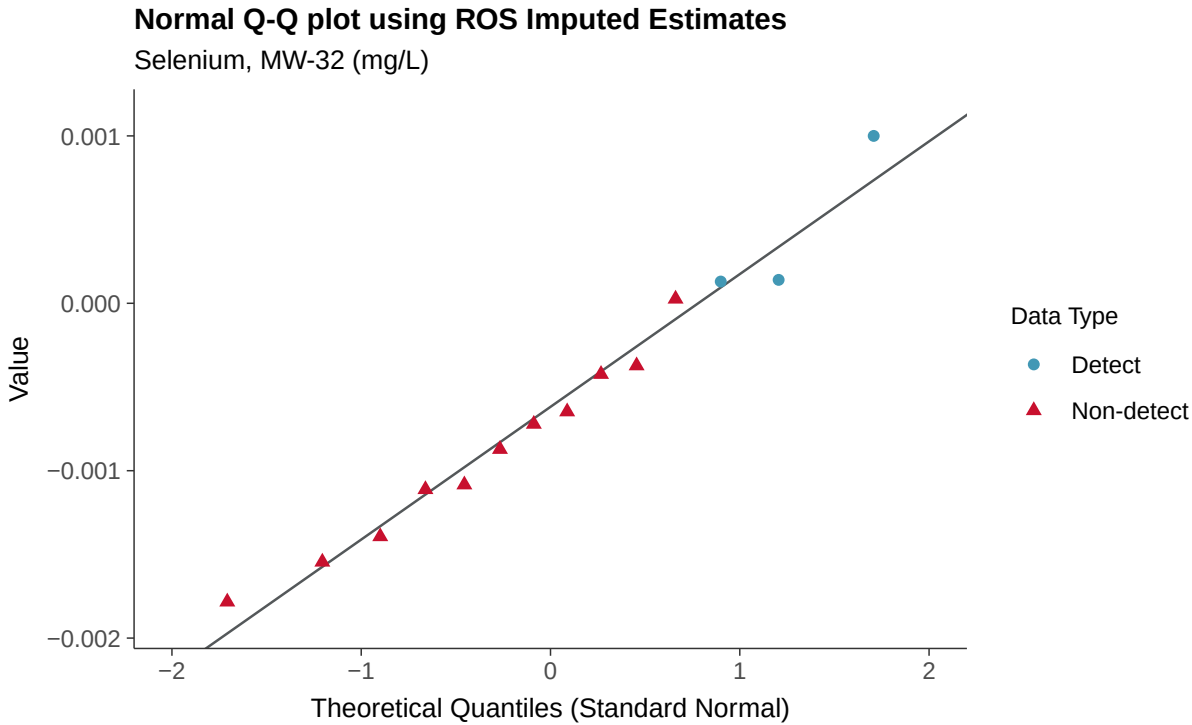


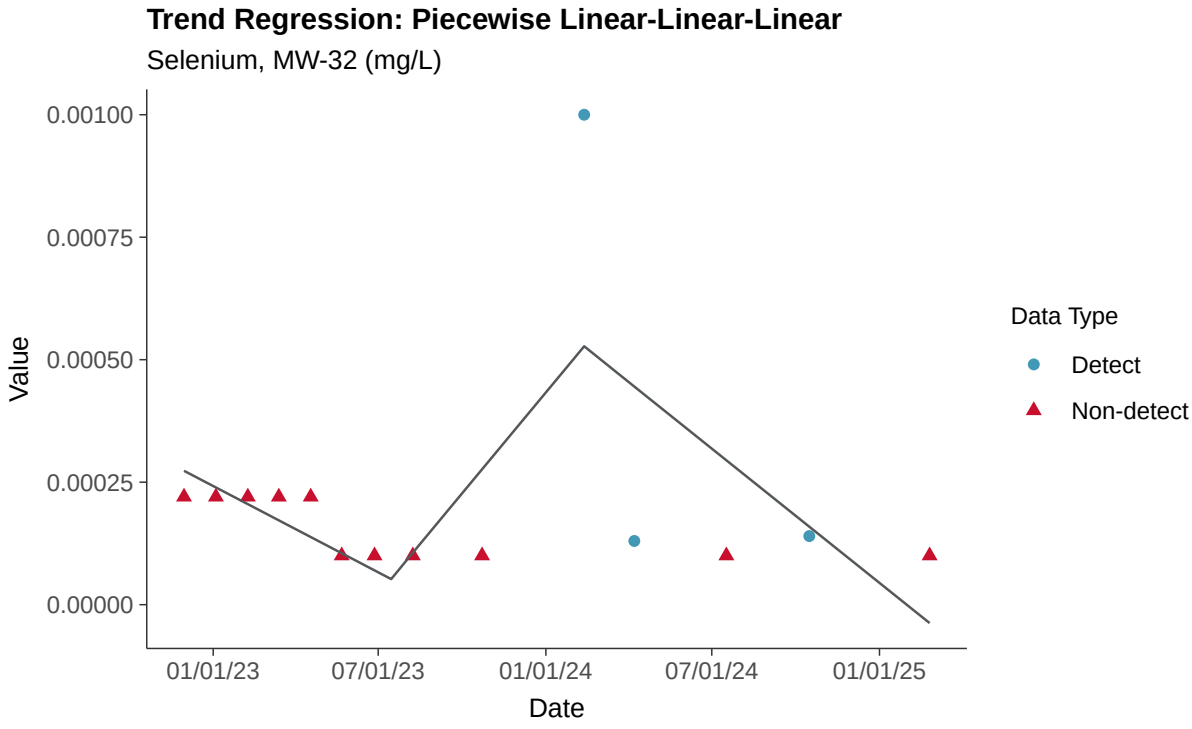
Appendix IV: Selenium, MW-32

ID: 42_1_4_122





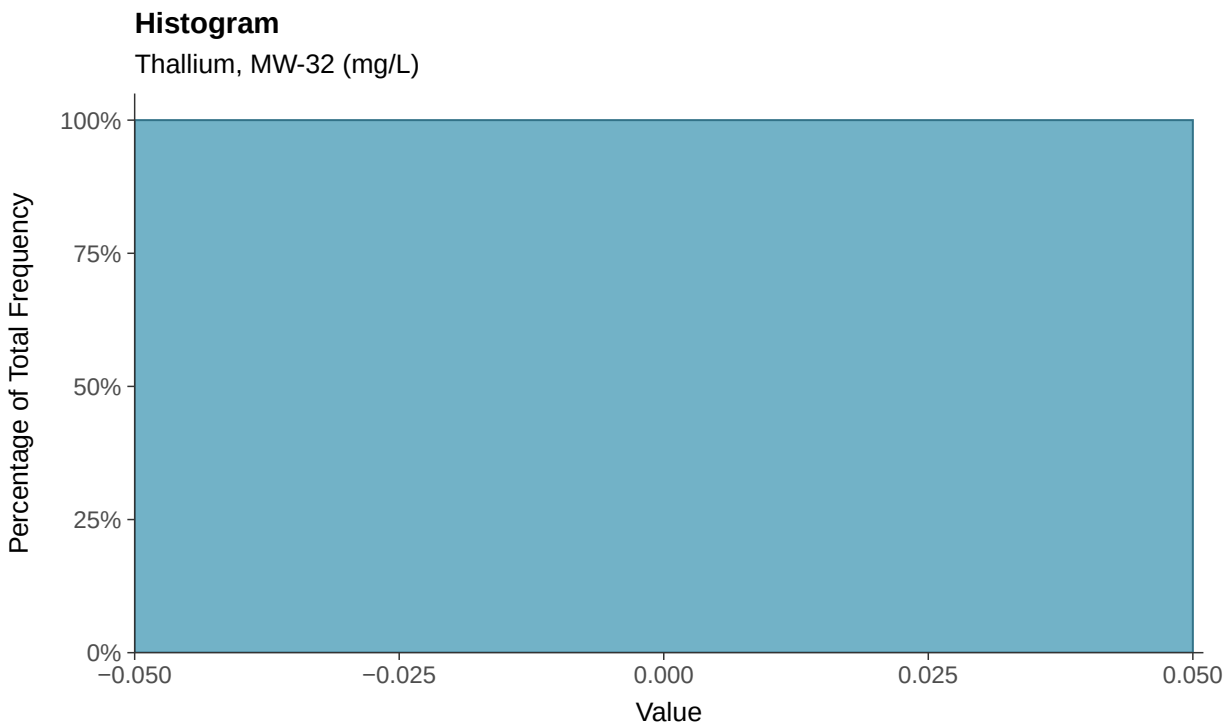
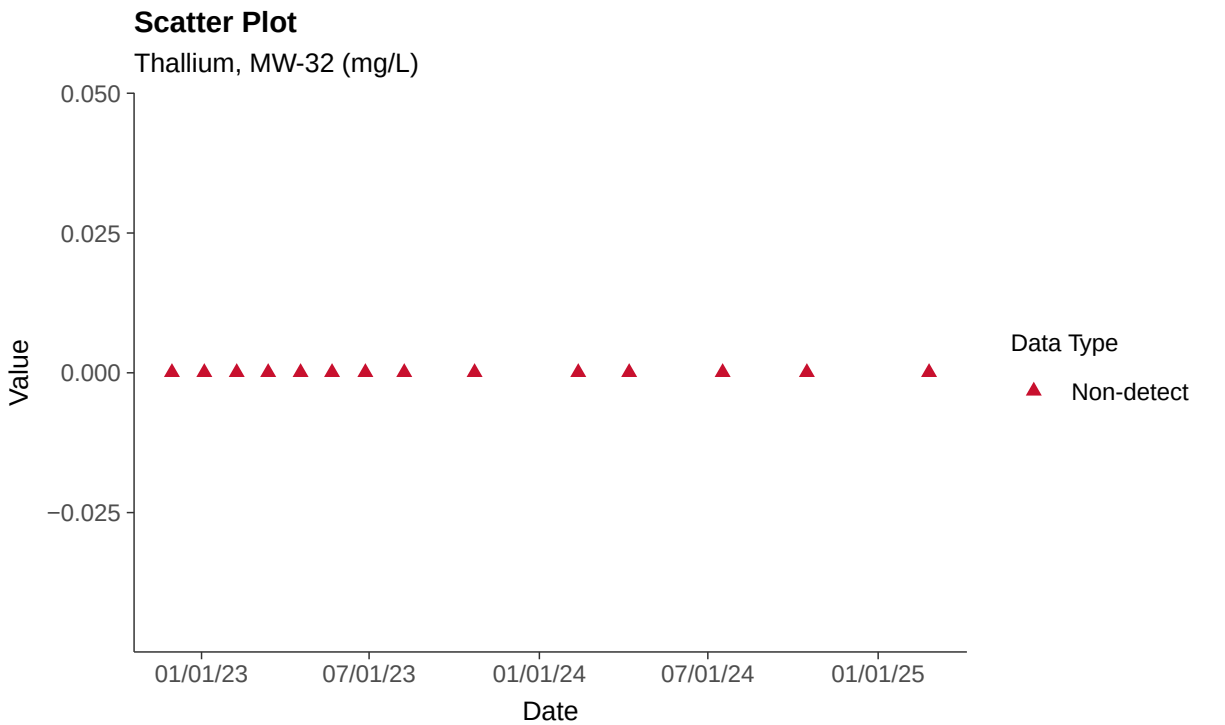


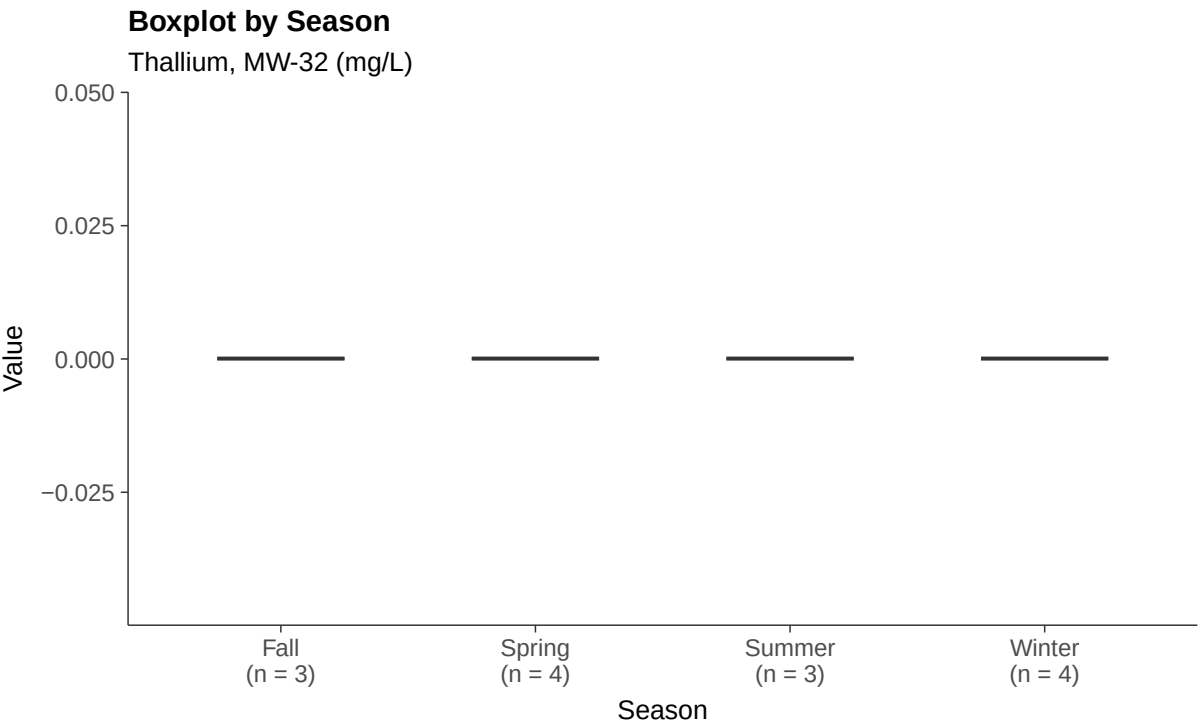
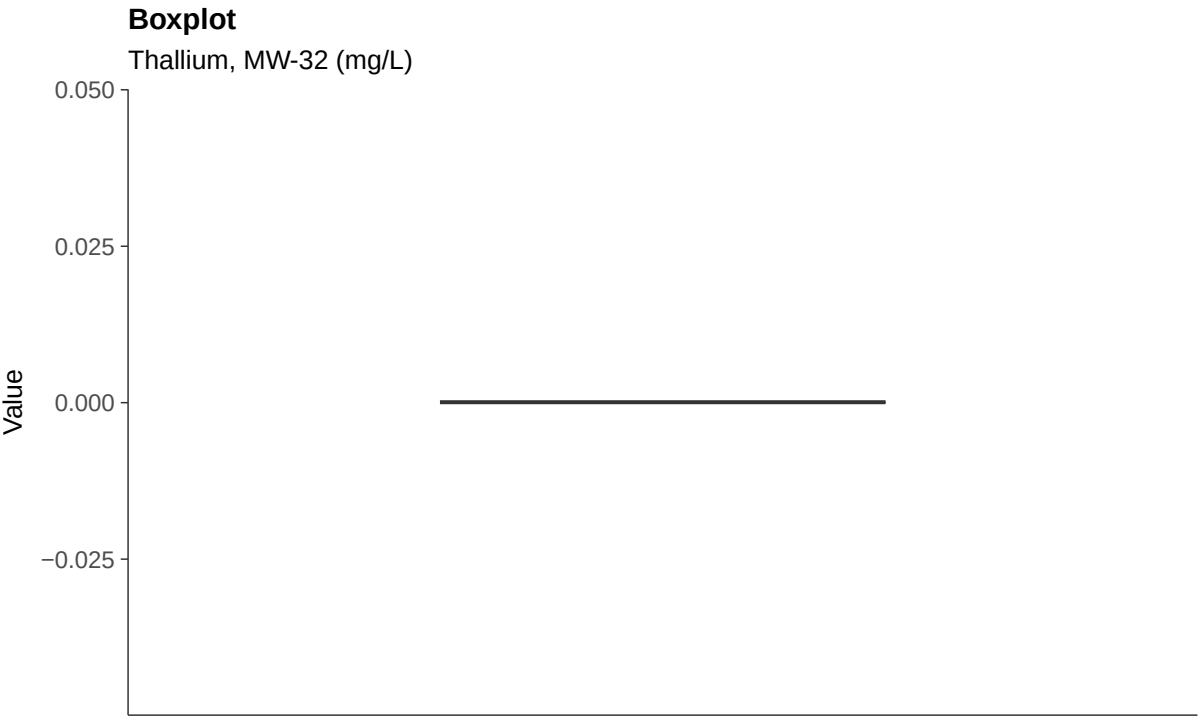


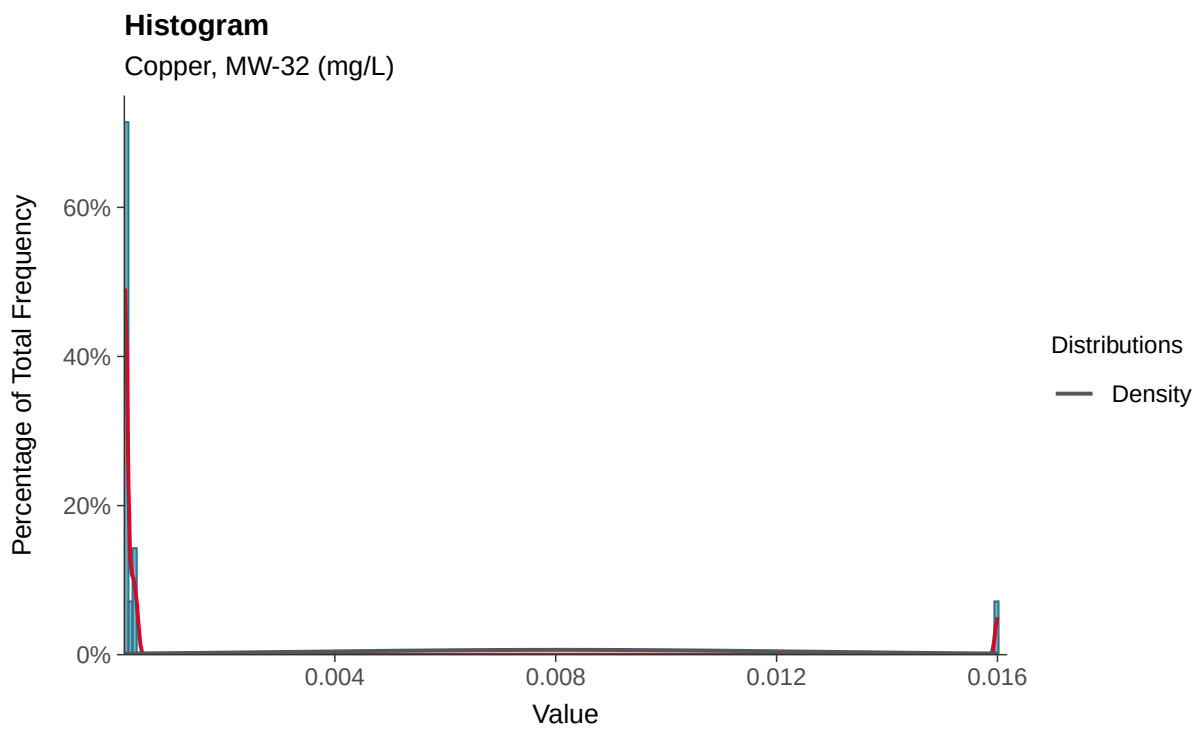


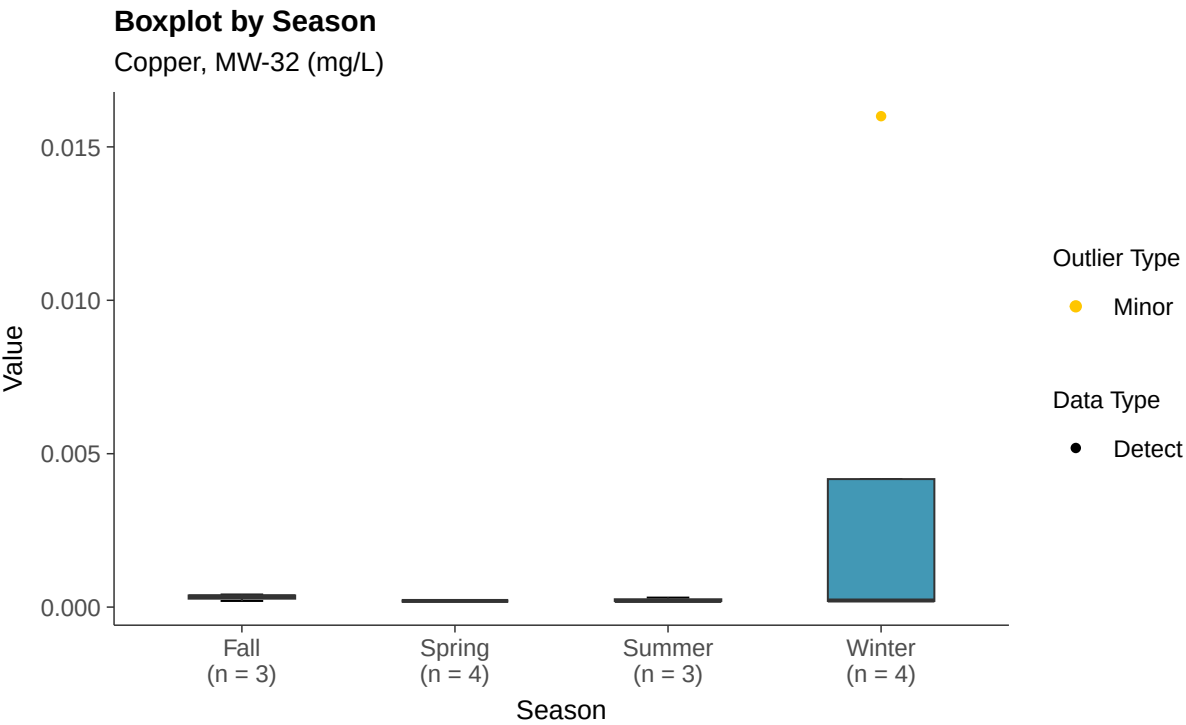
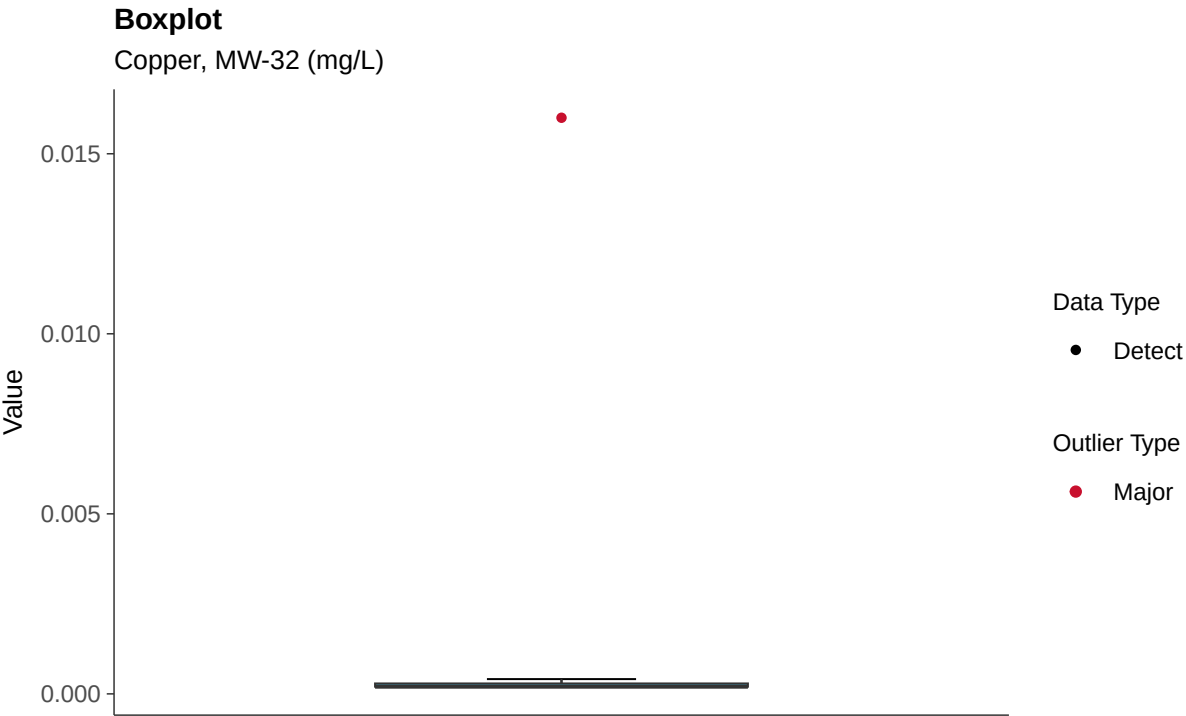
Appendix IV: Thallium, MW-32

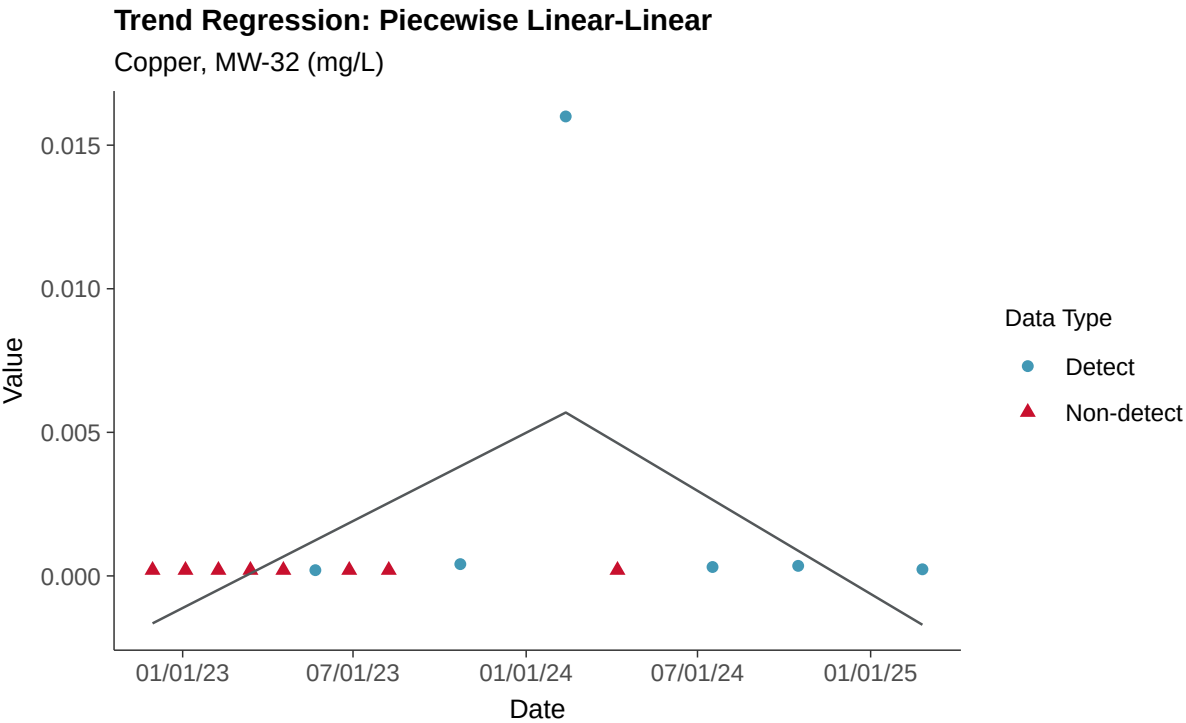
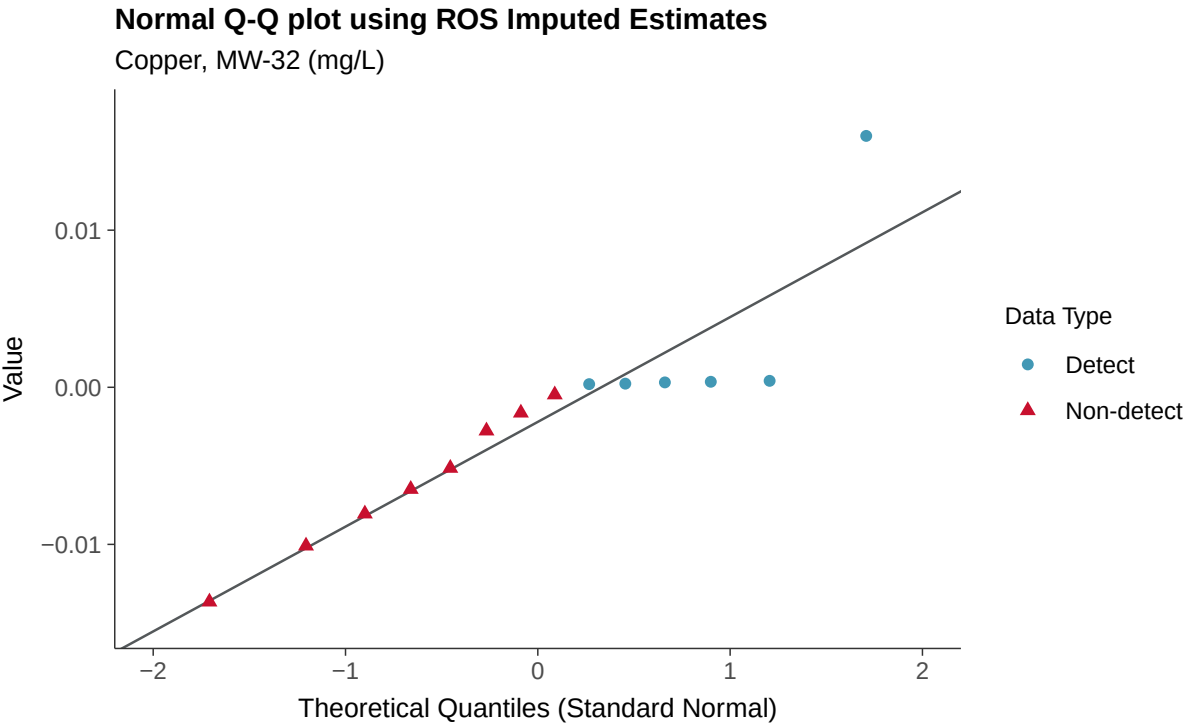
ID: 42_1_4_125



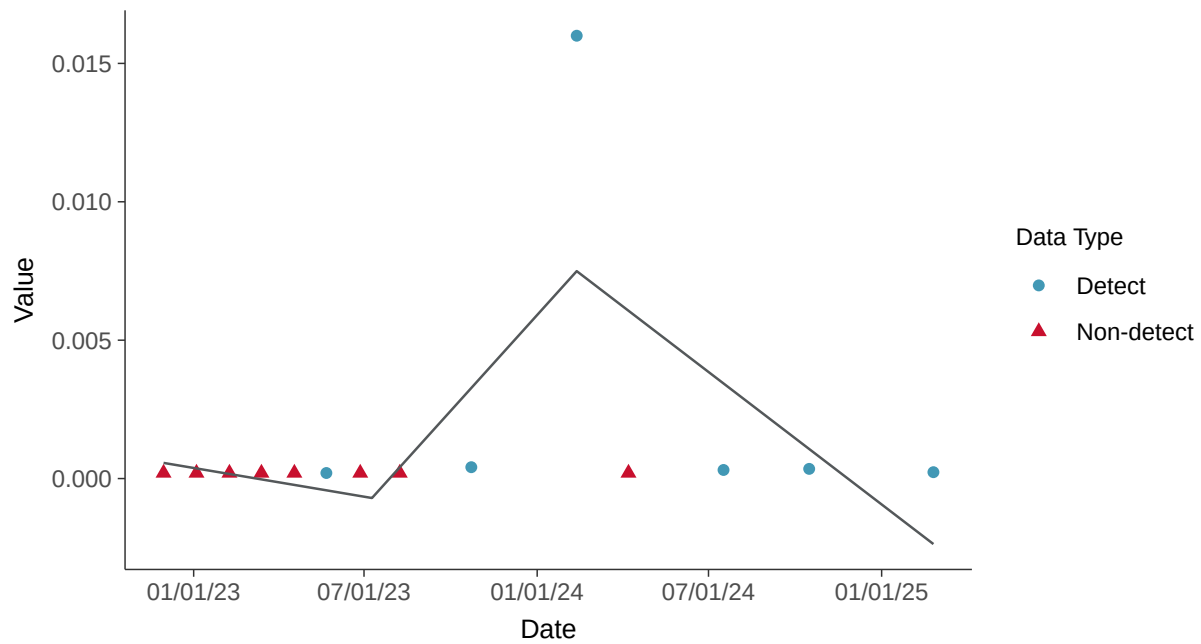








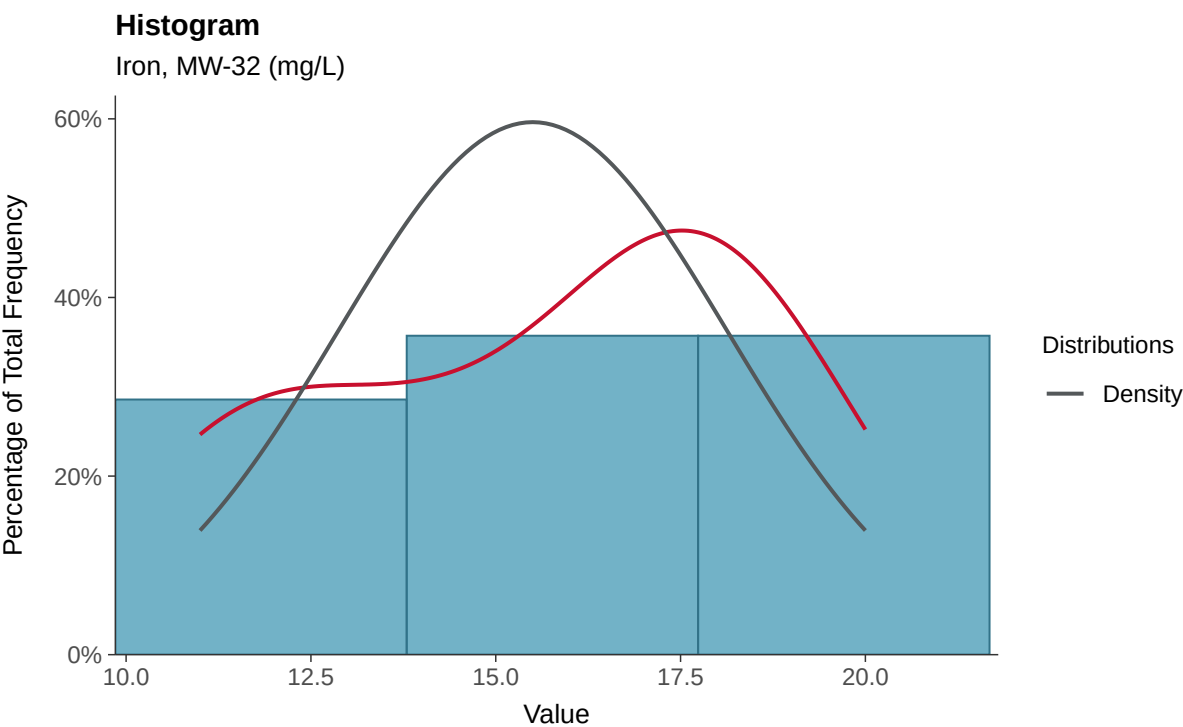
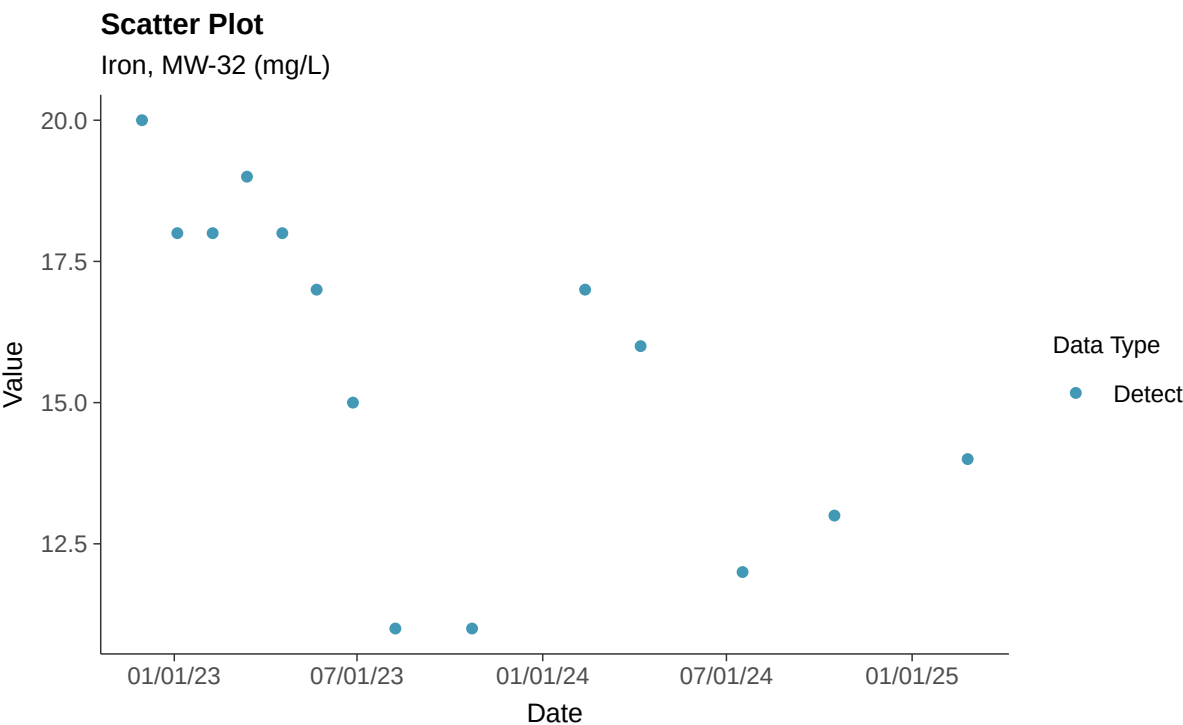
Copper, MW-32 (mg/L)

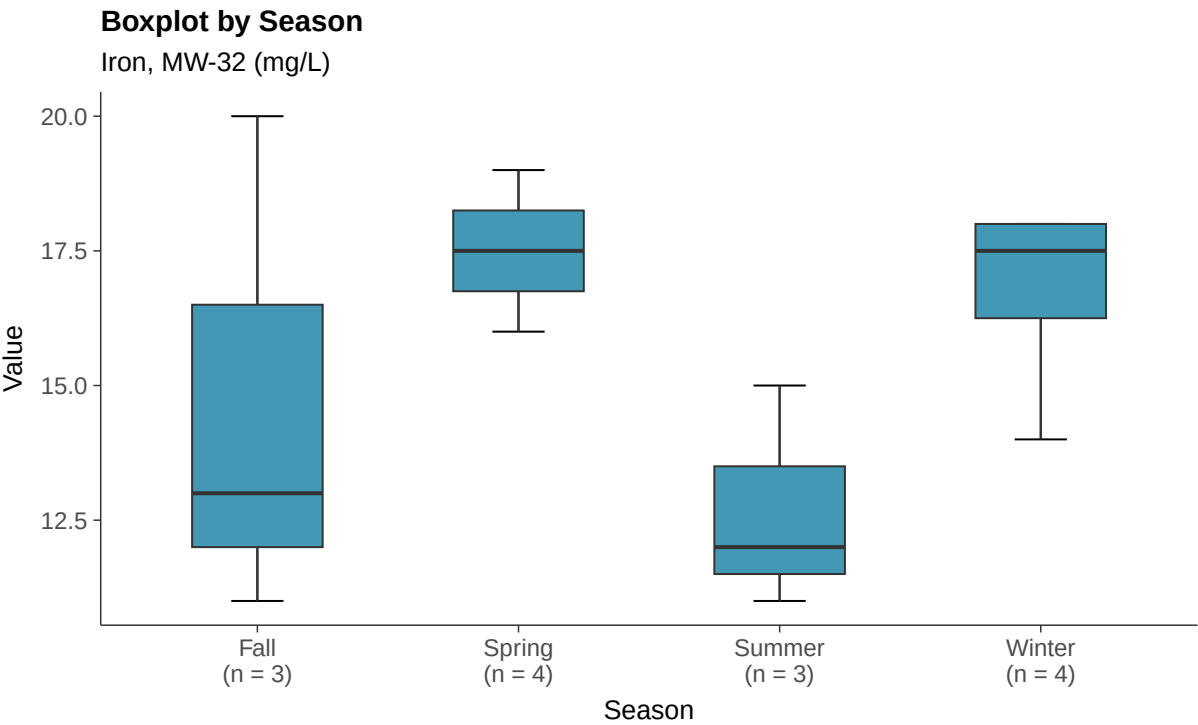
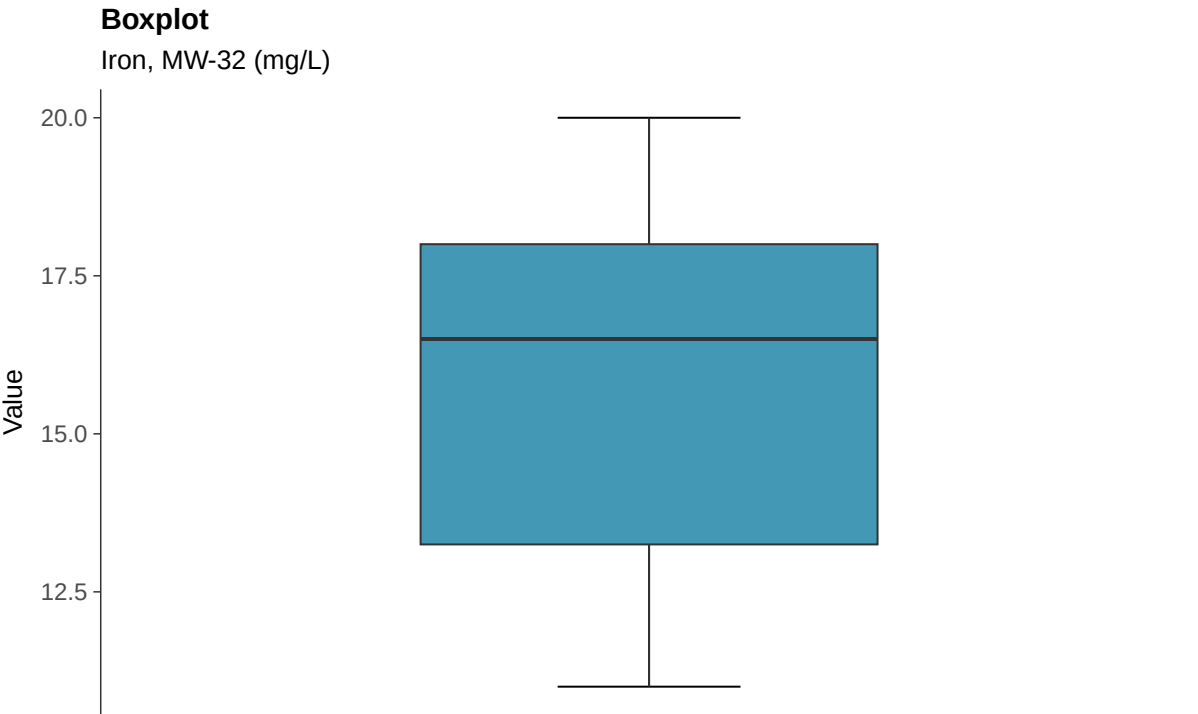


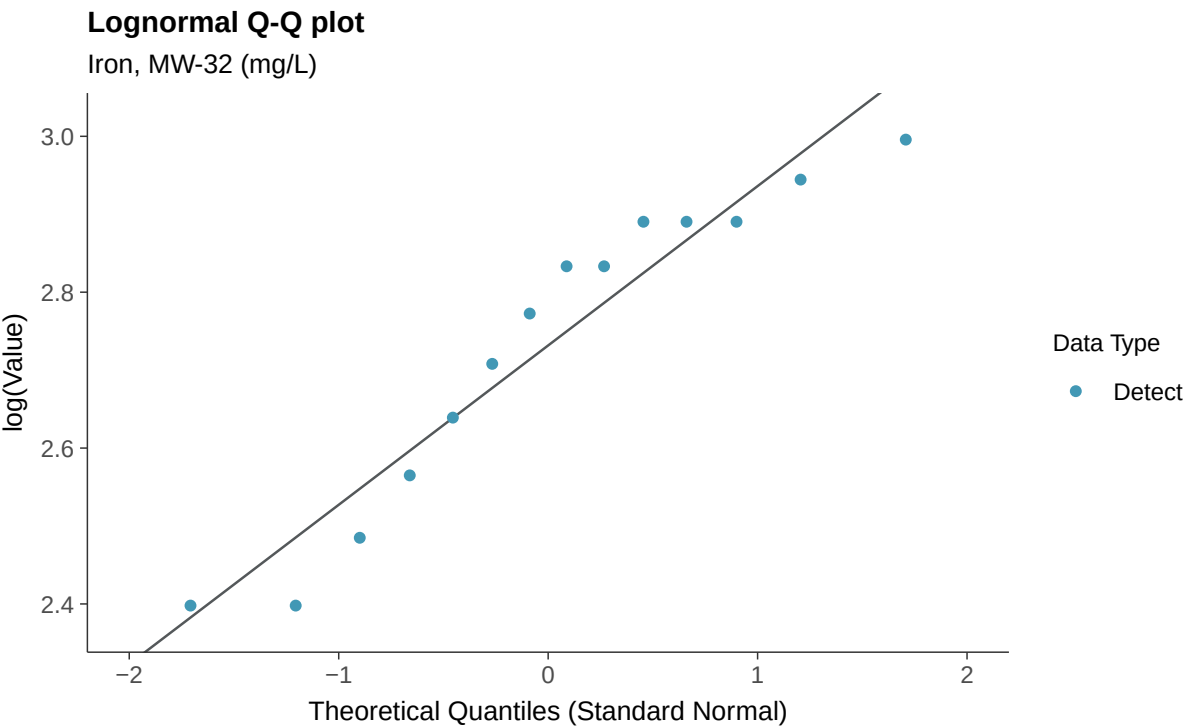
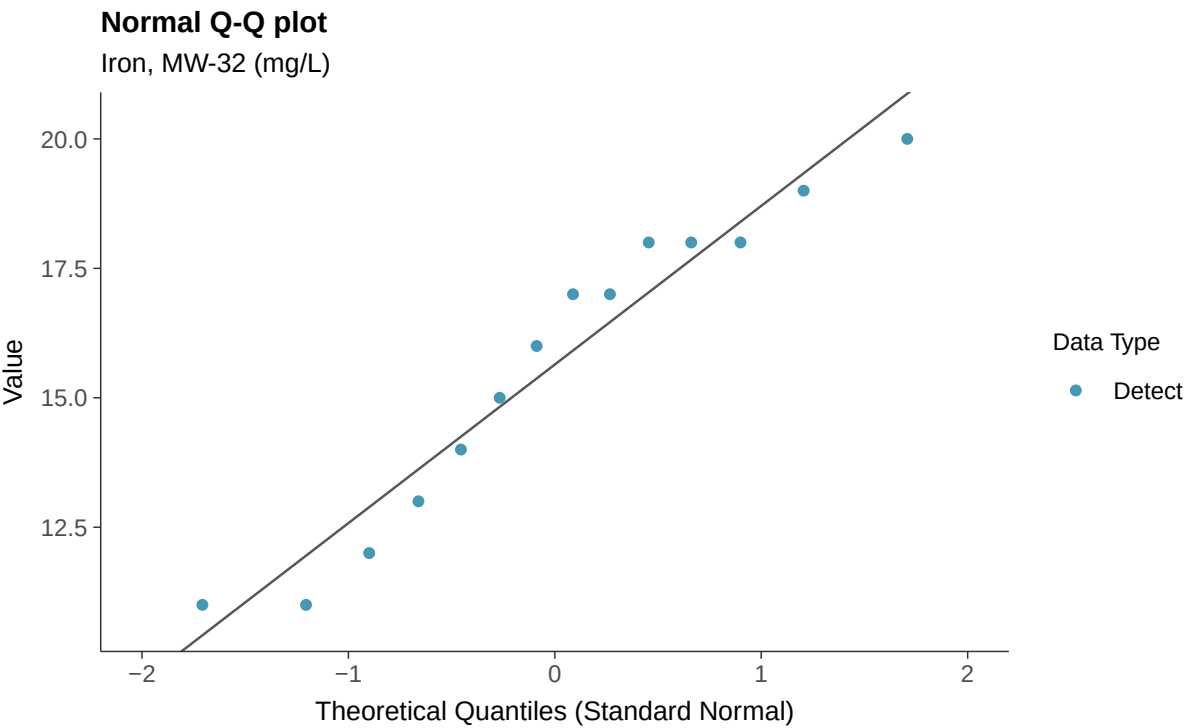


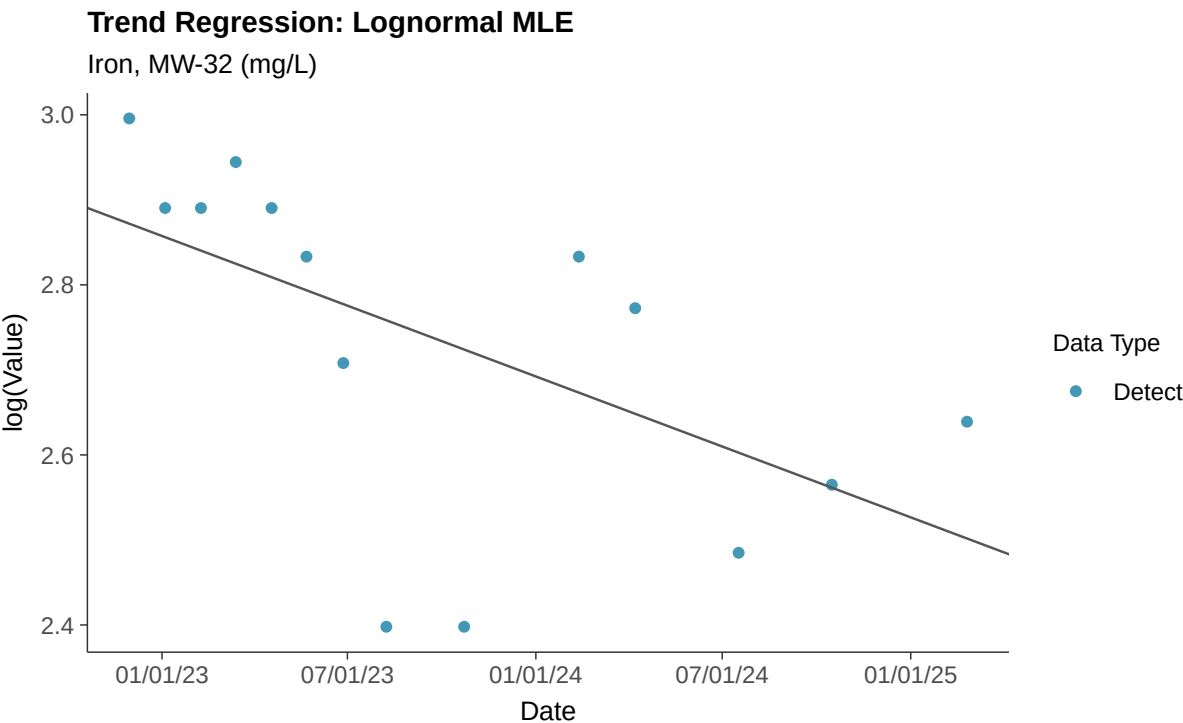
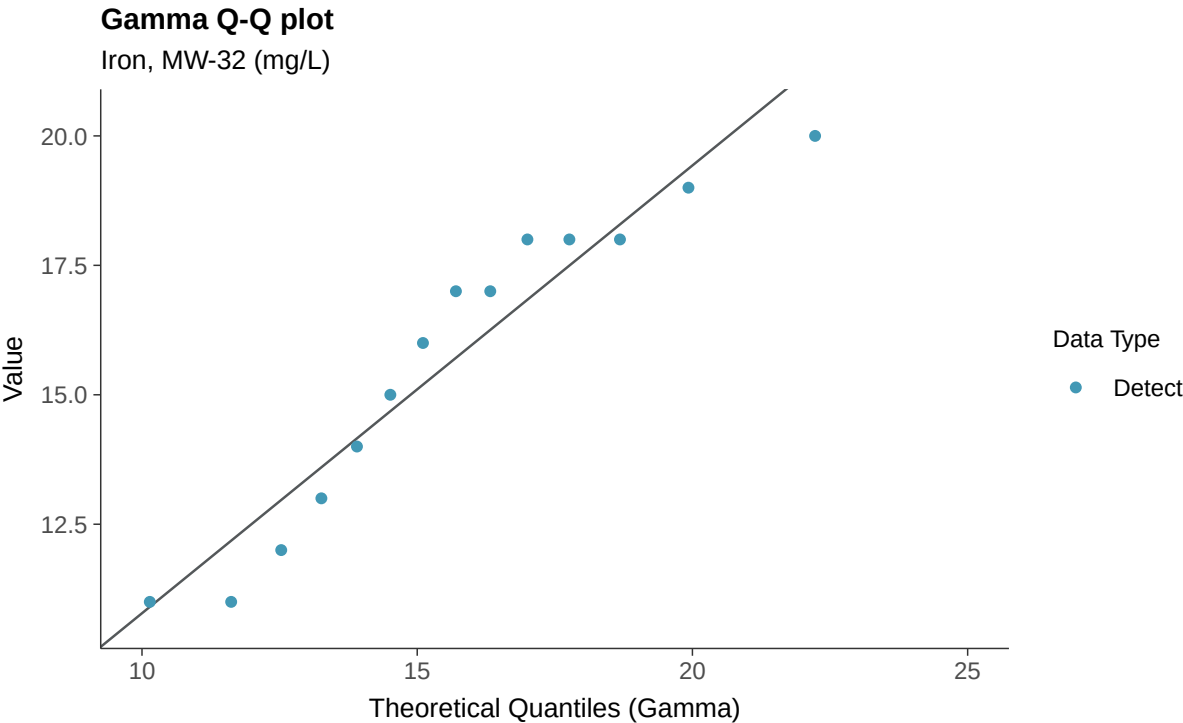
Part 115: Iron, MW-32

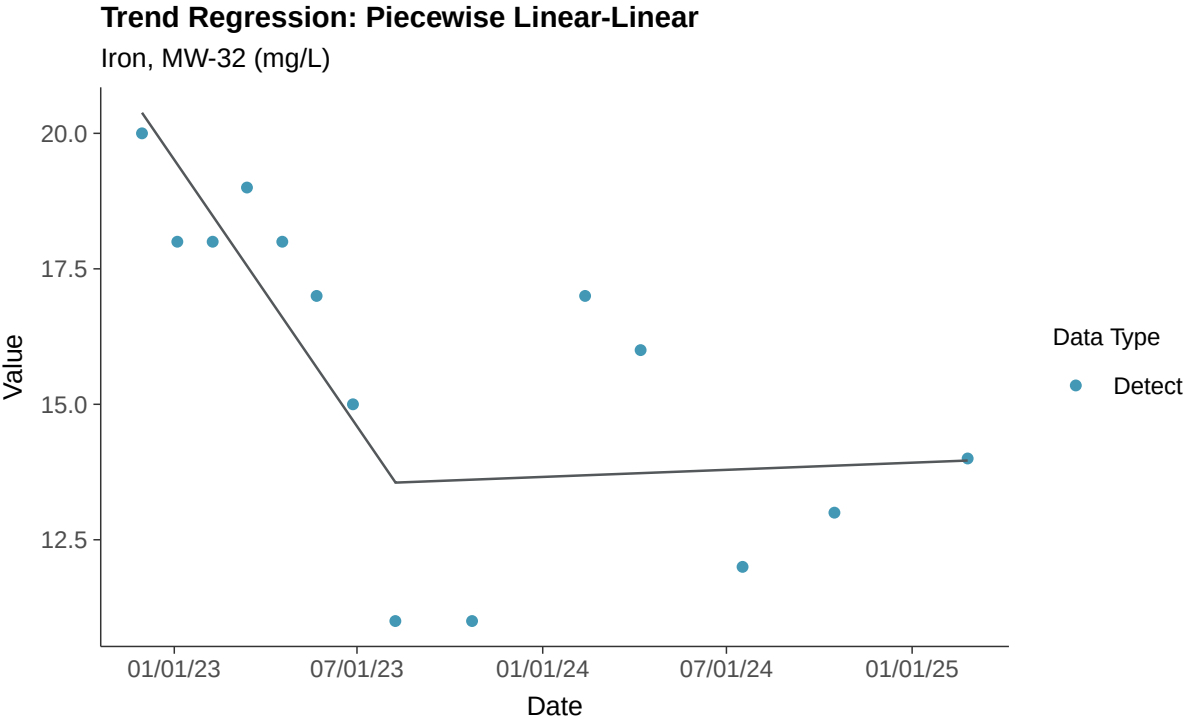
ID: 42_1_5_114







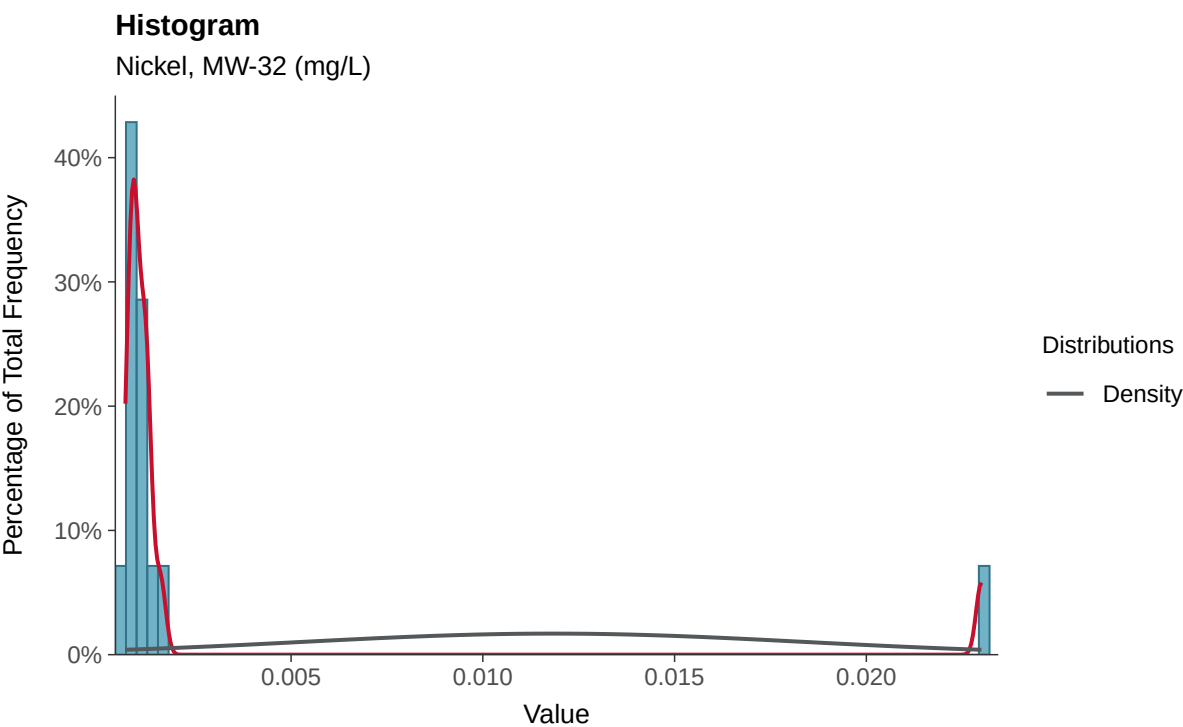
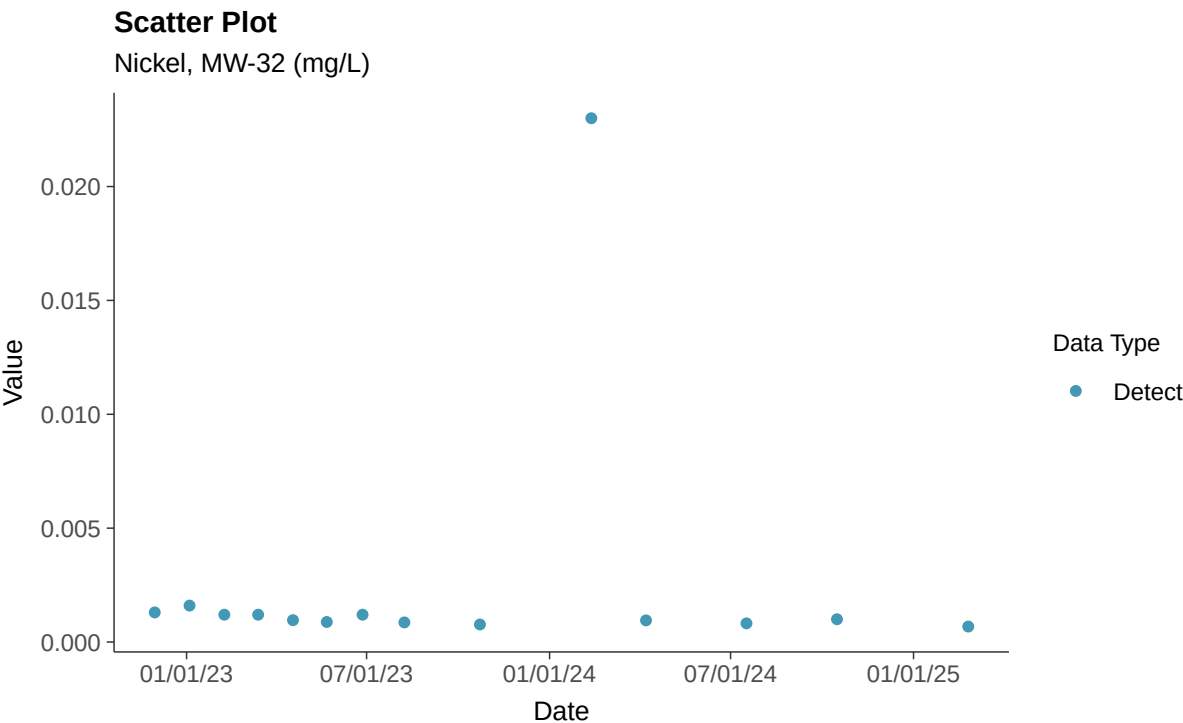


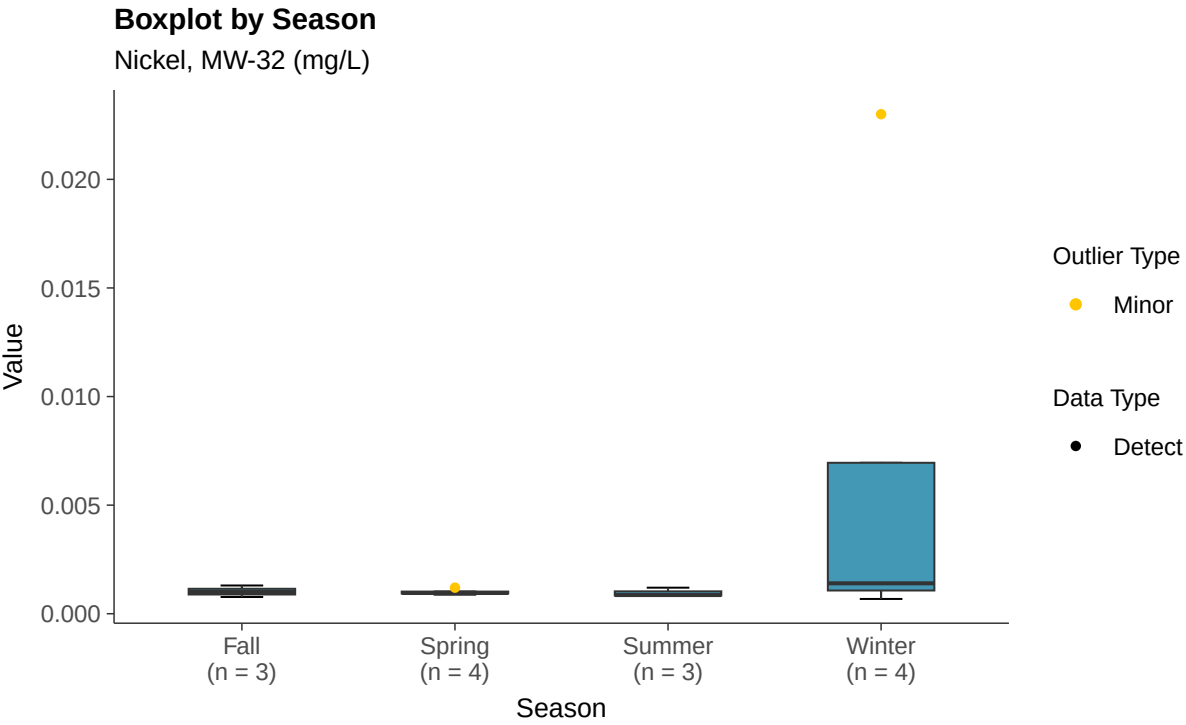
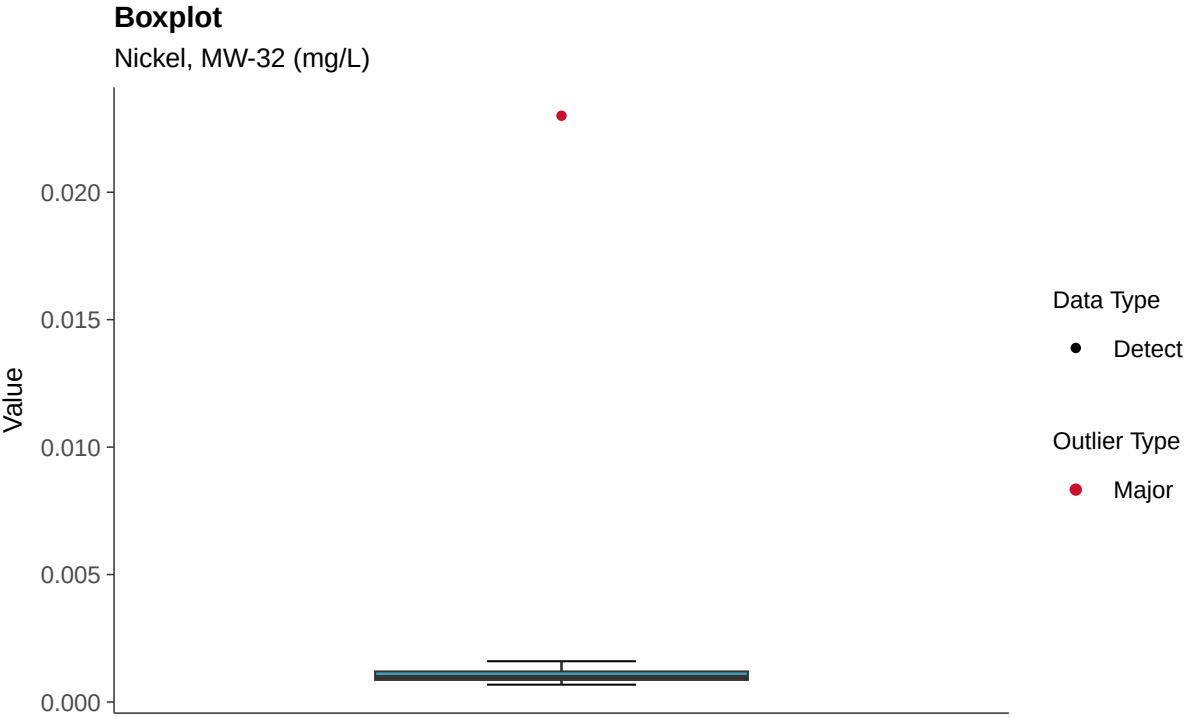


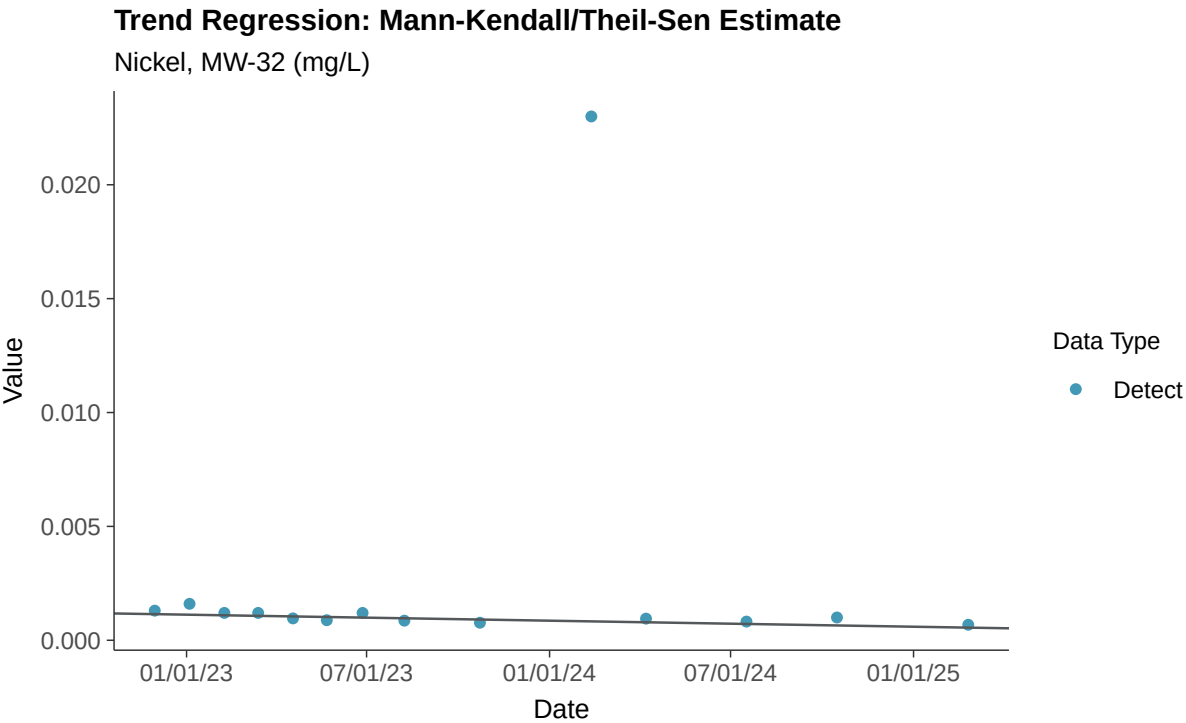
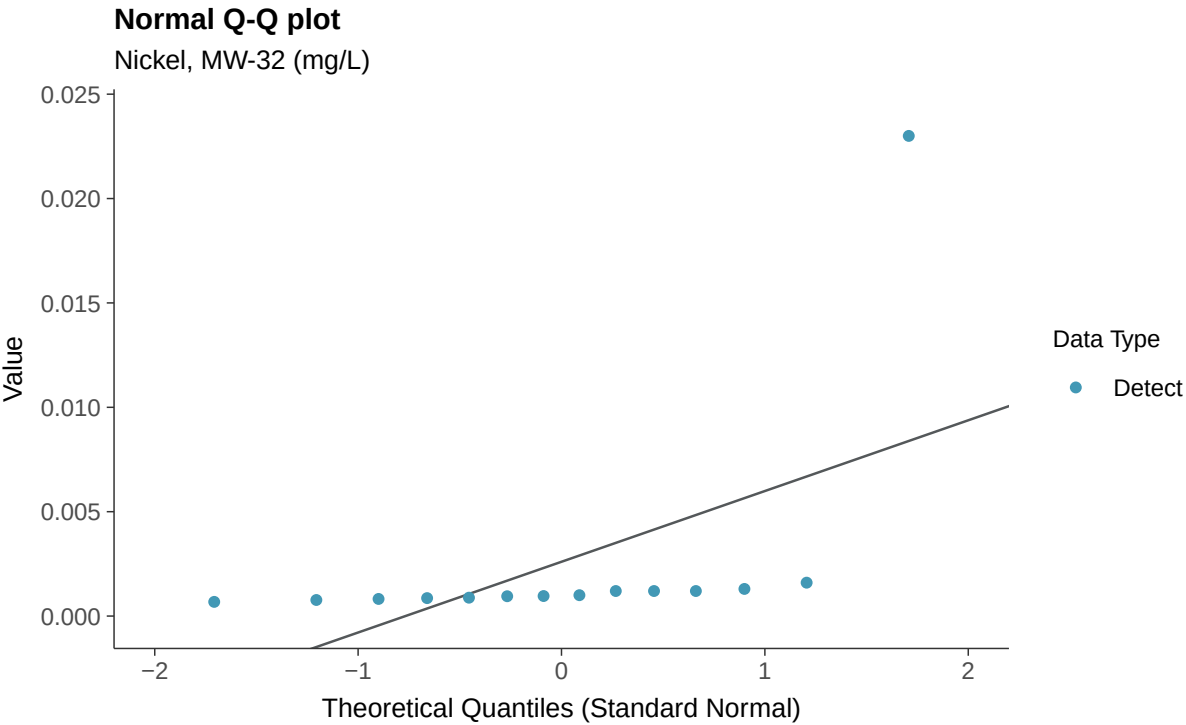


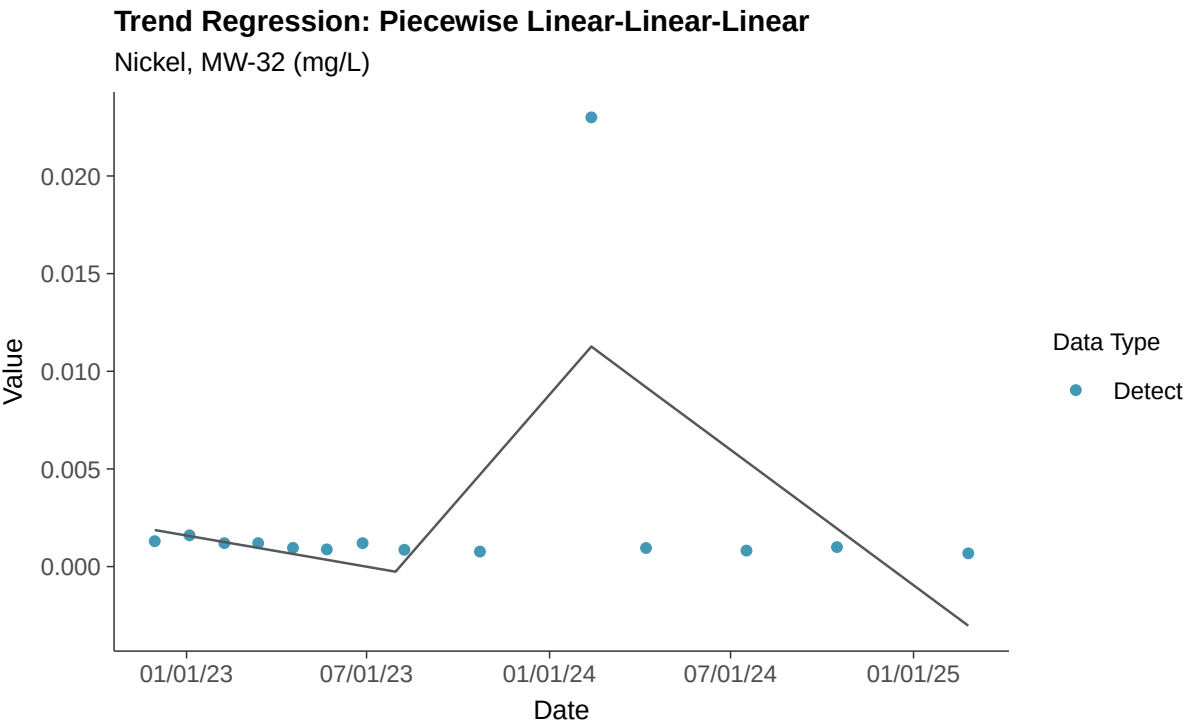
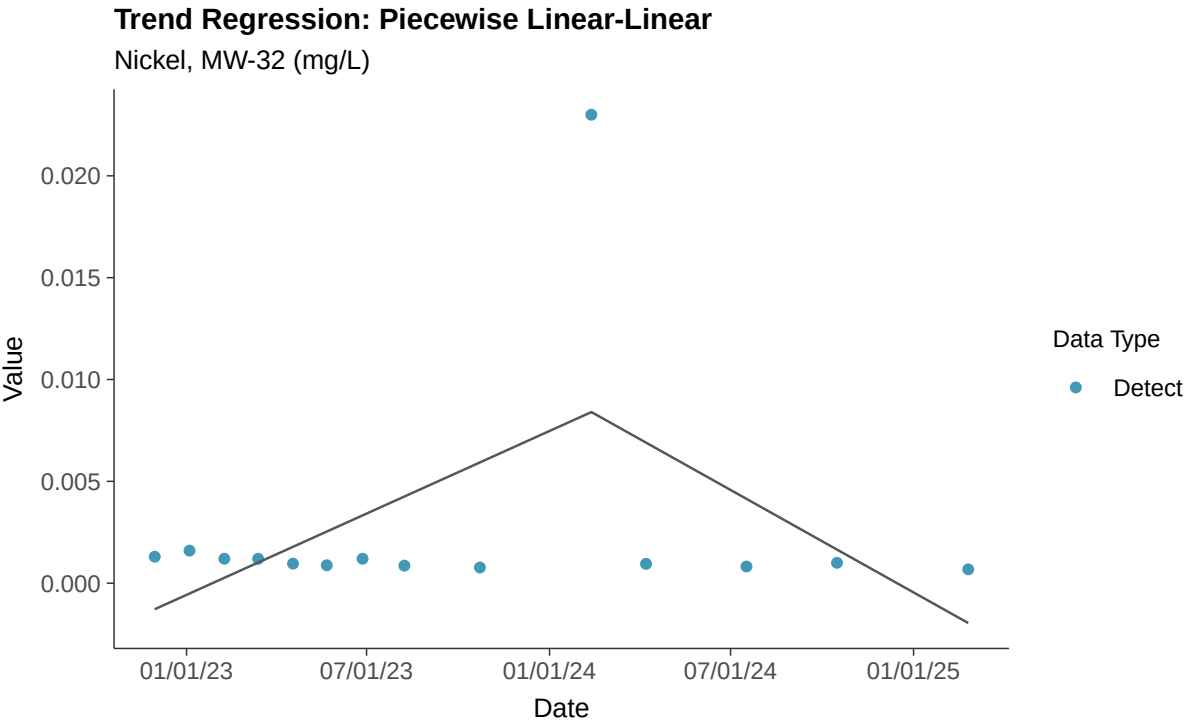
Part 115: Nickel, MW-32

ID: 42_1_5_119





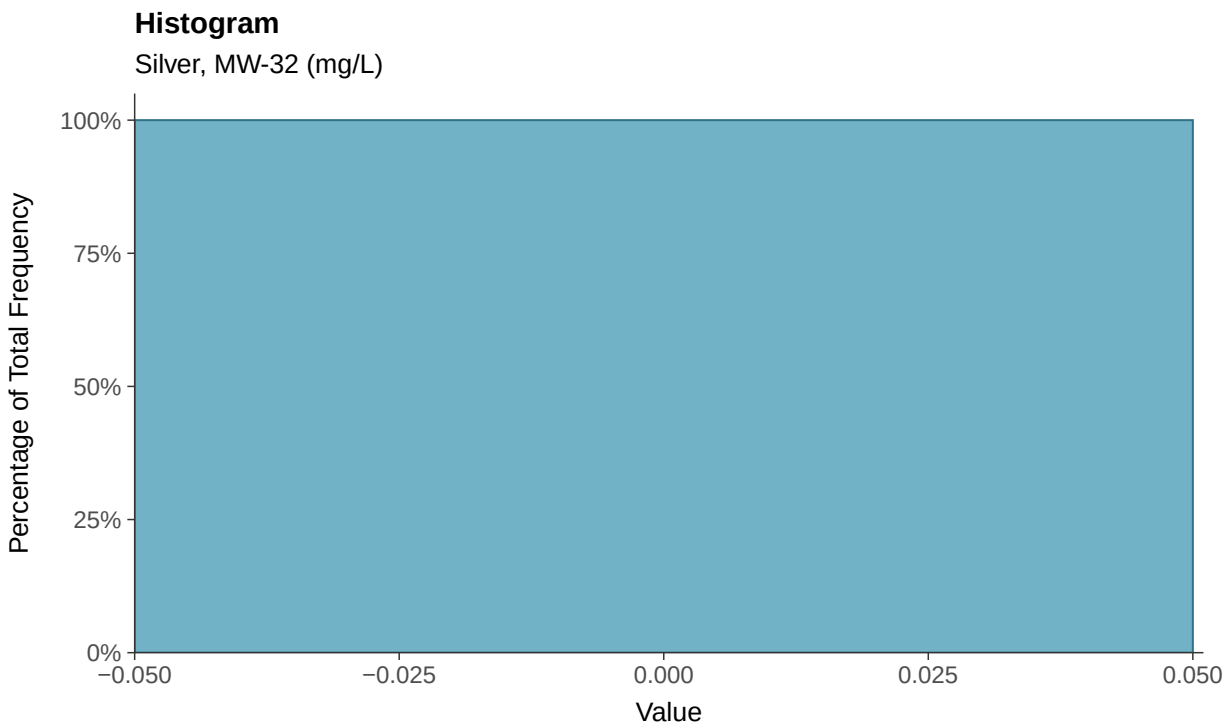
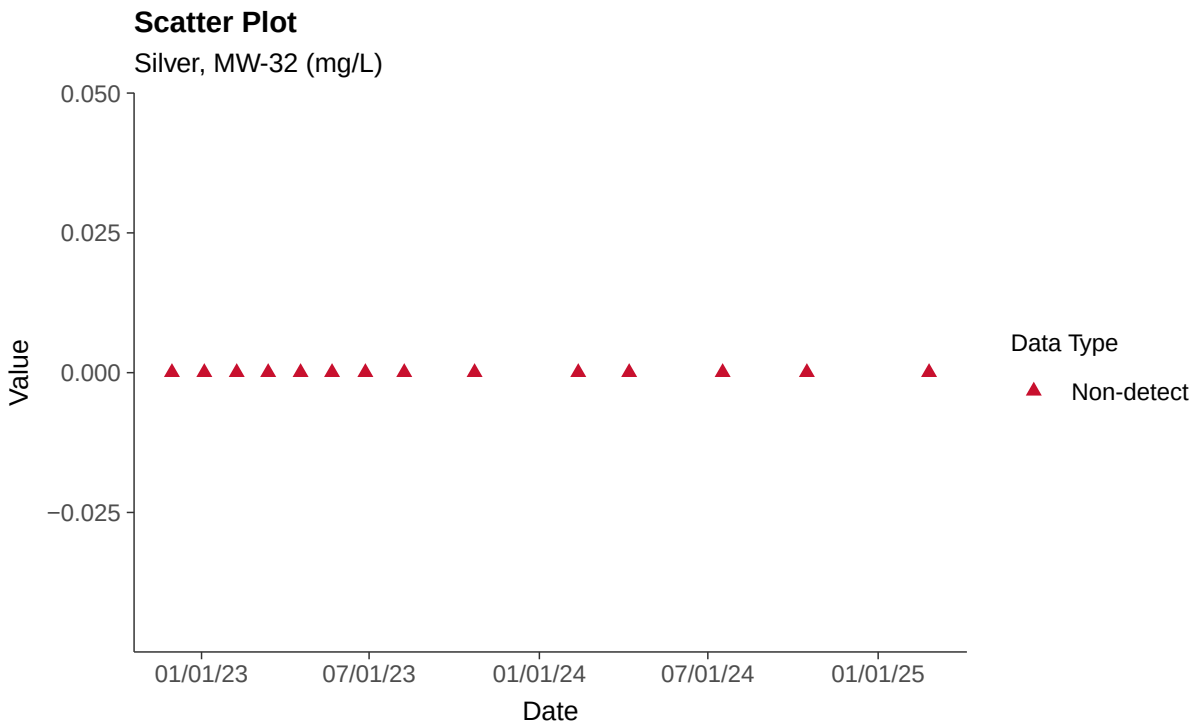


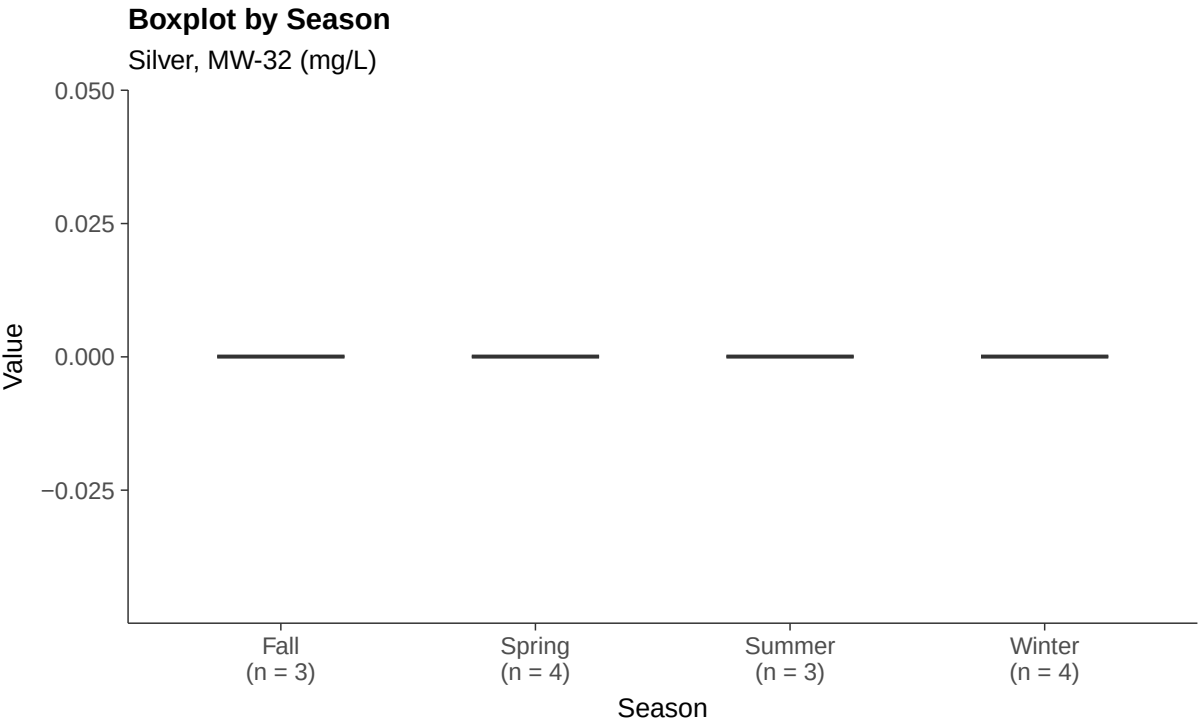
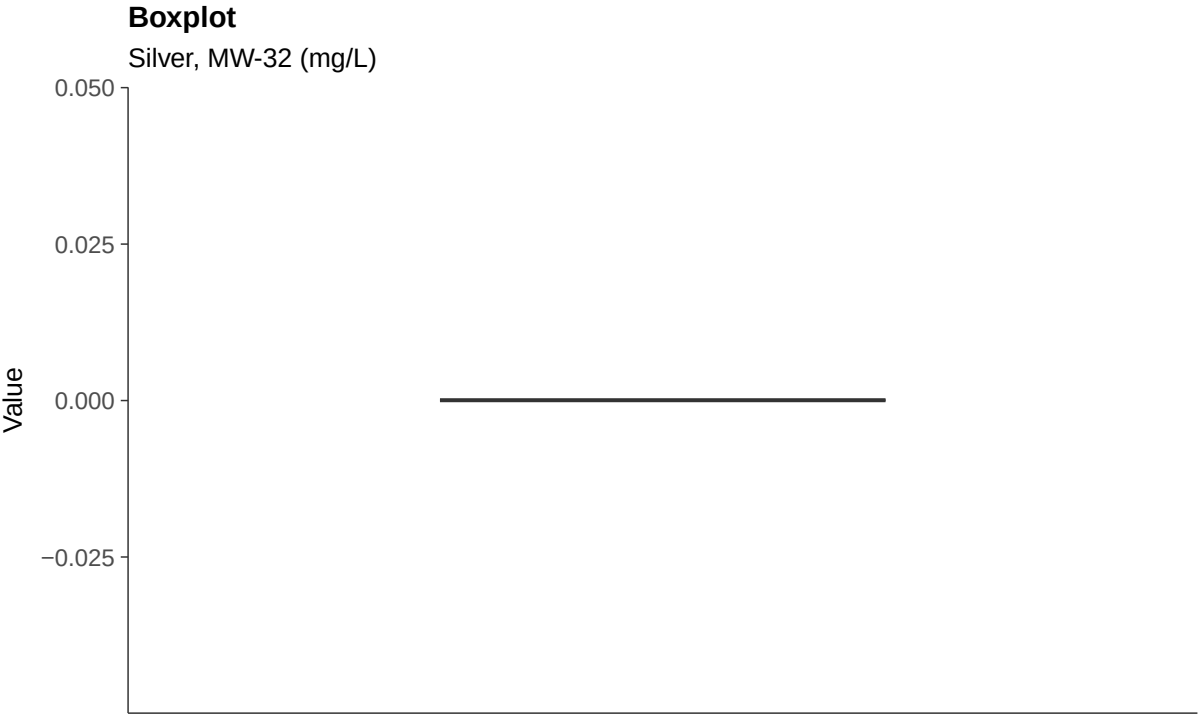




Part 115: Silver, MW-32

ID: 42_1_5_123

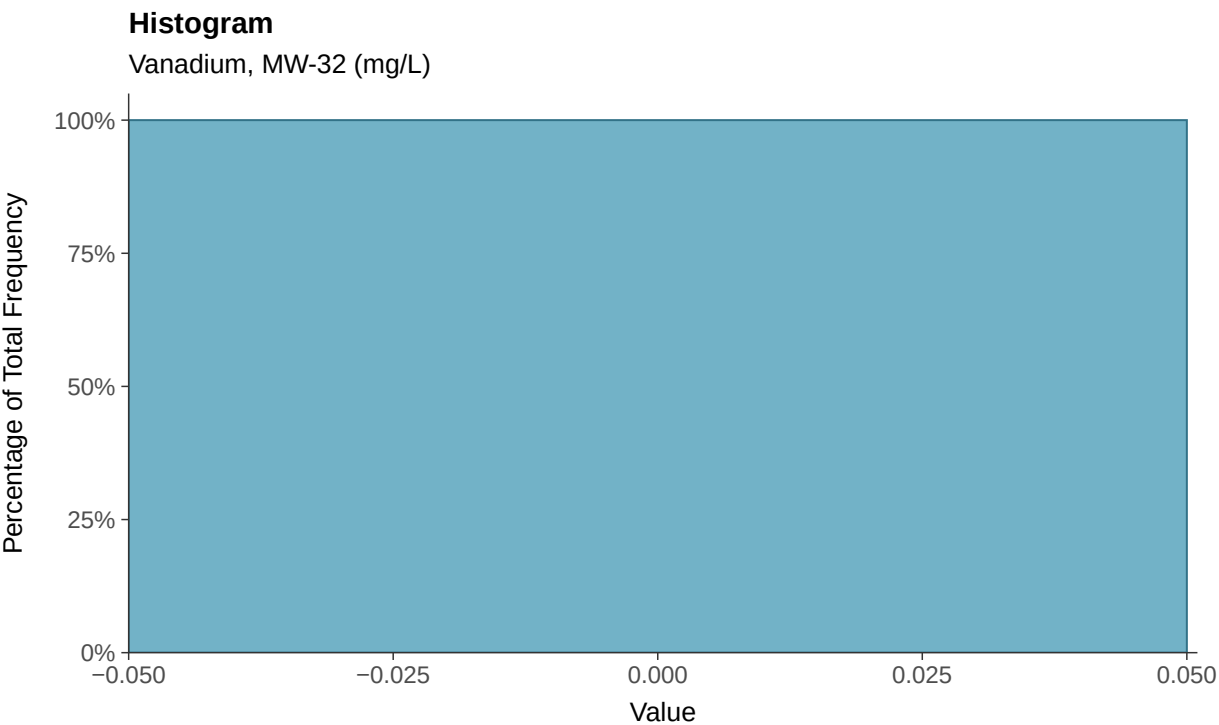
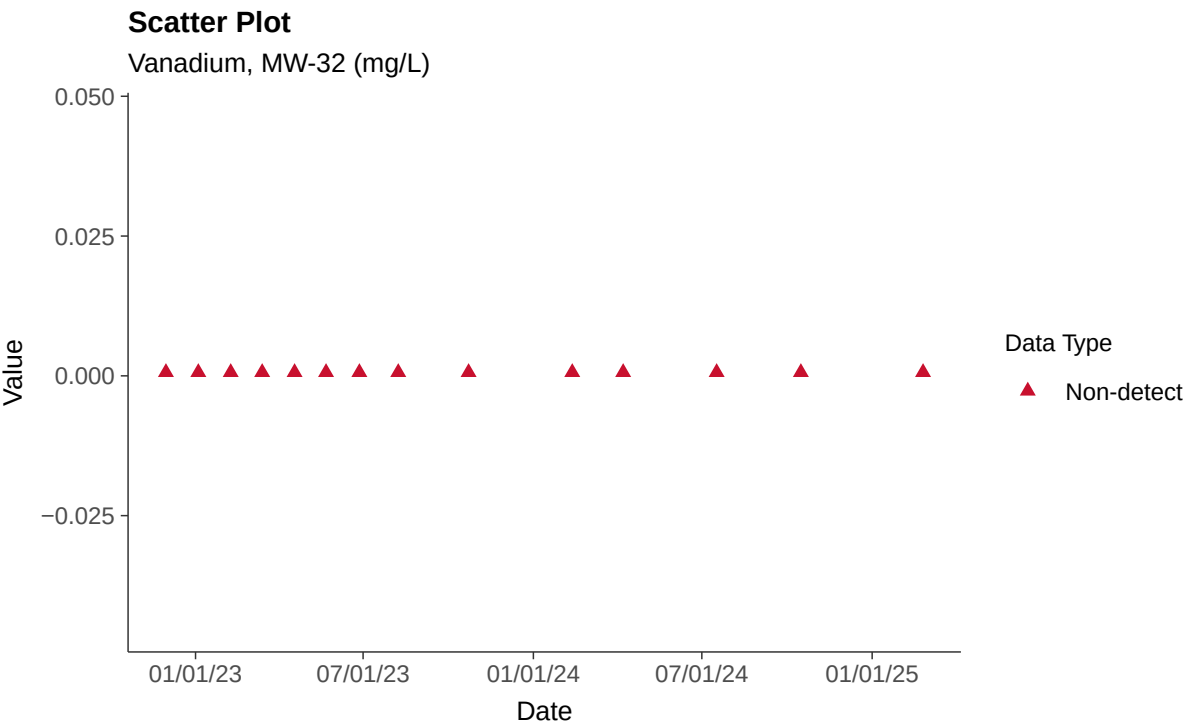


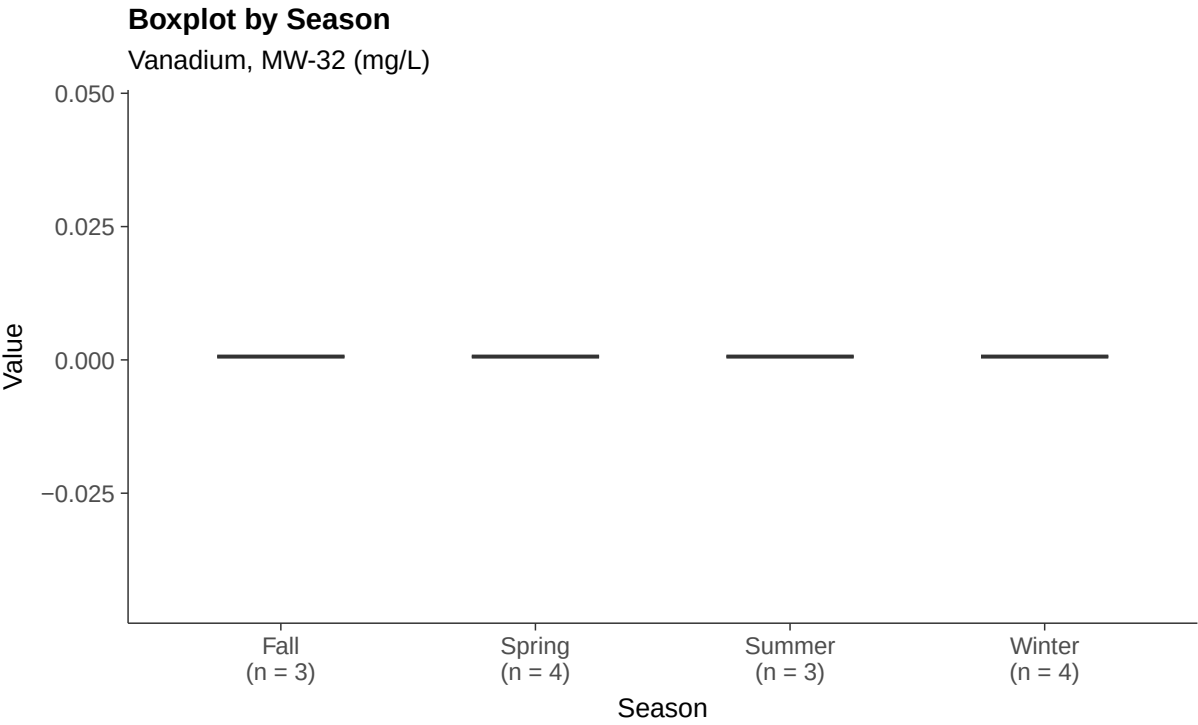
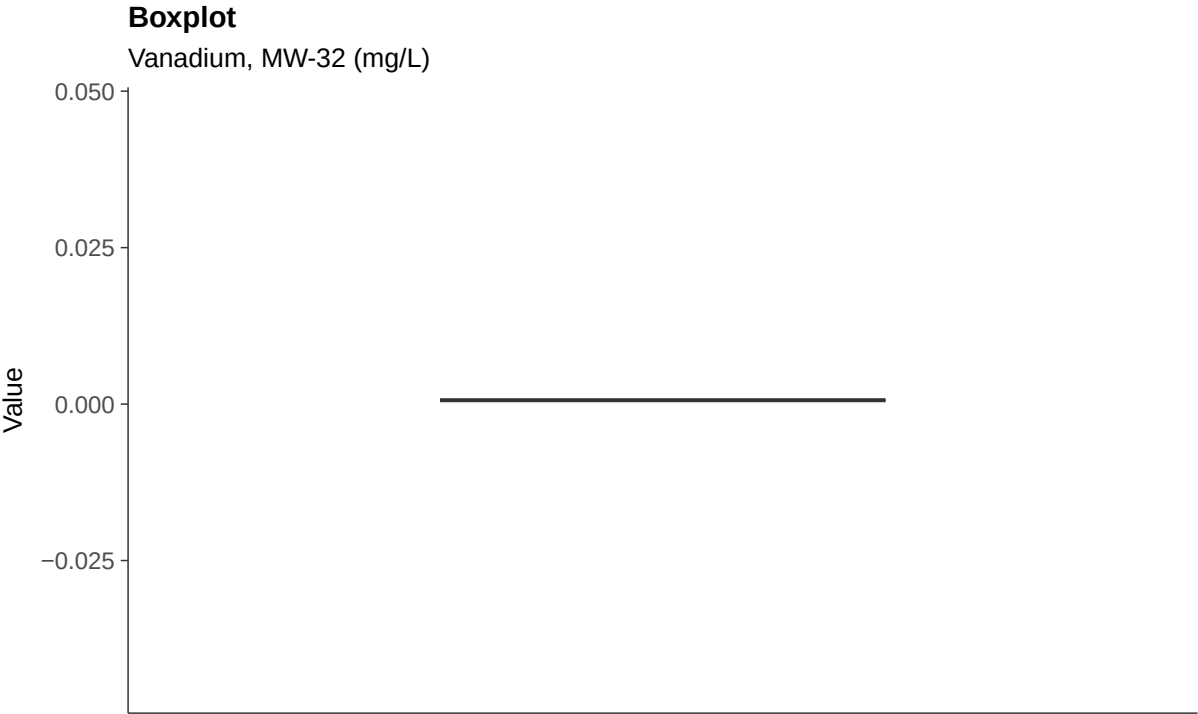




Part 115: Vanadium, MW-32

ID: 42_1_5_128

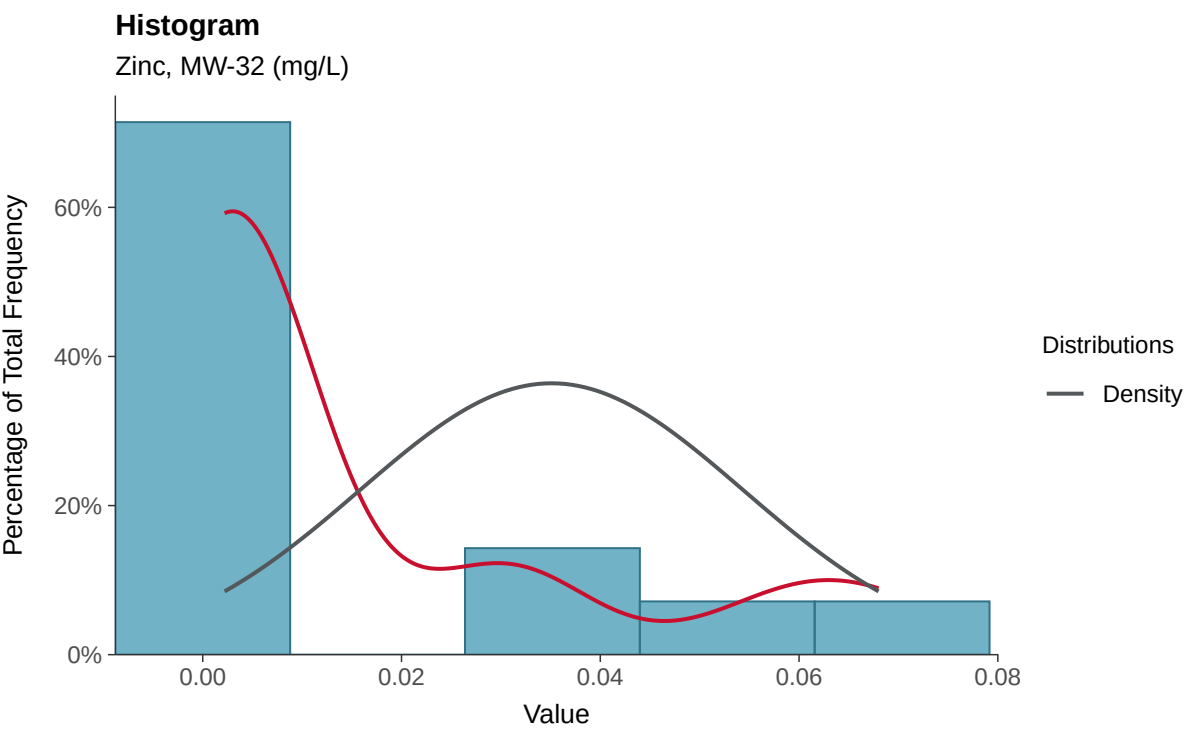
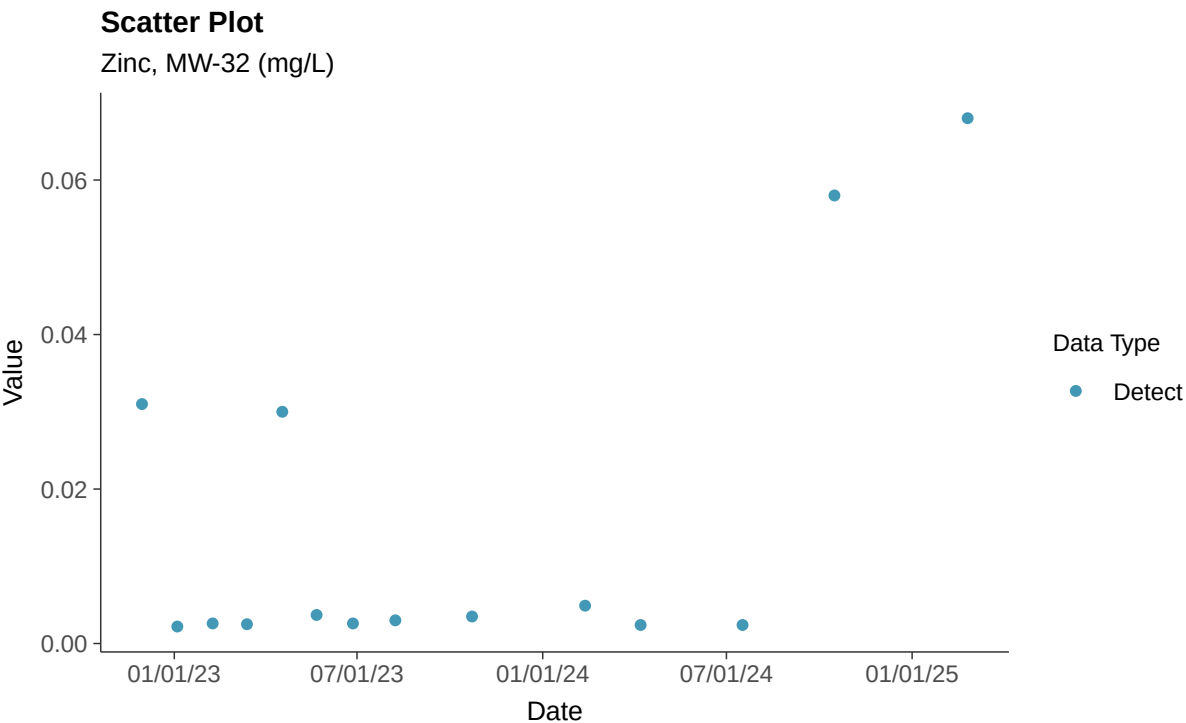


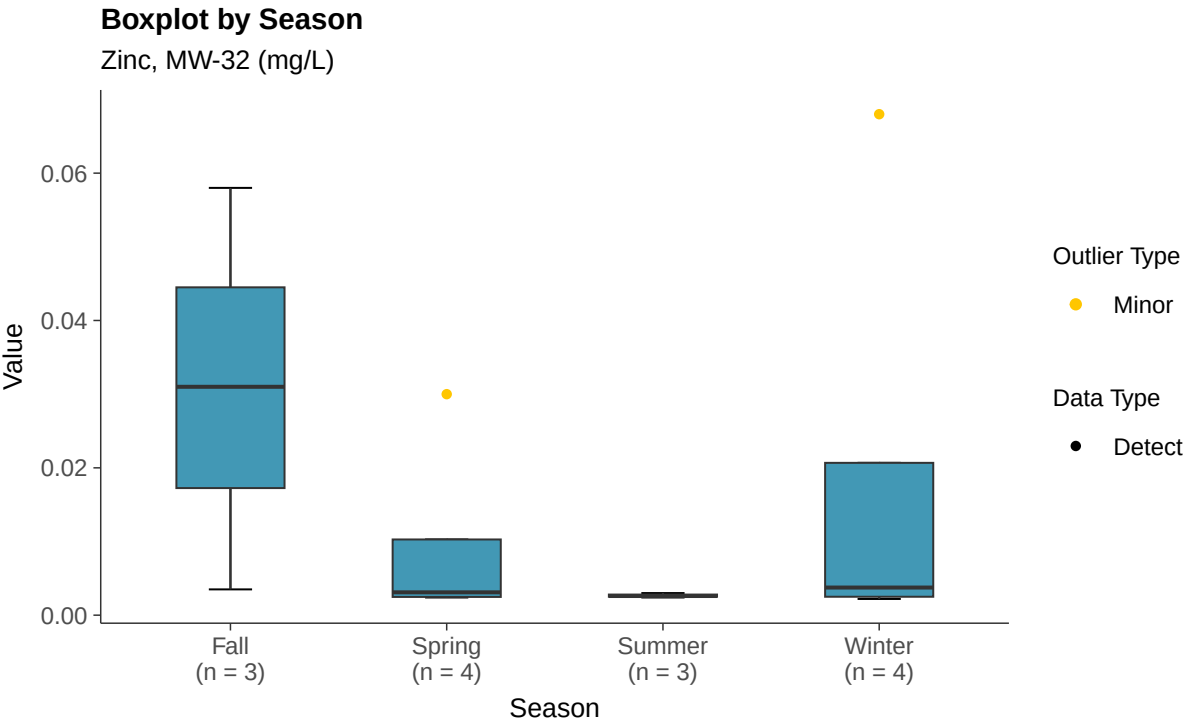
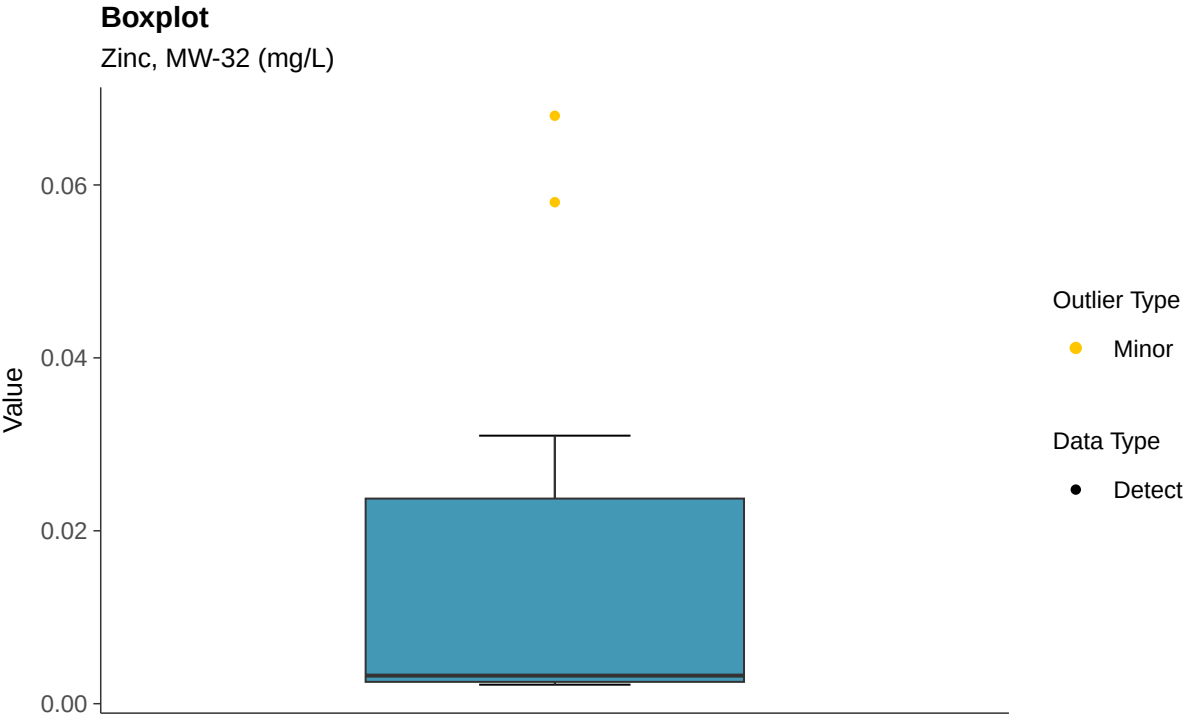


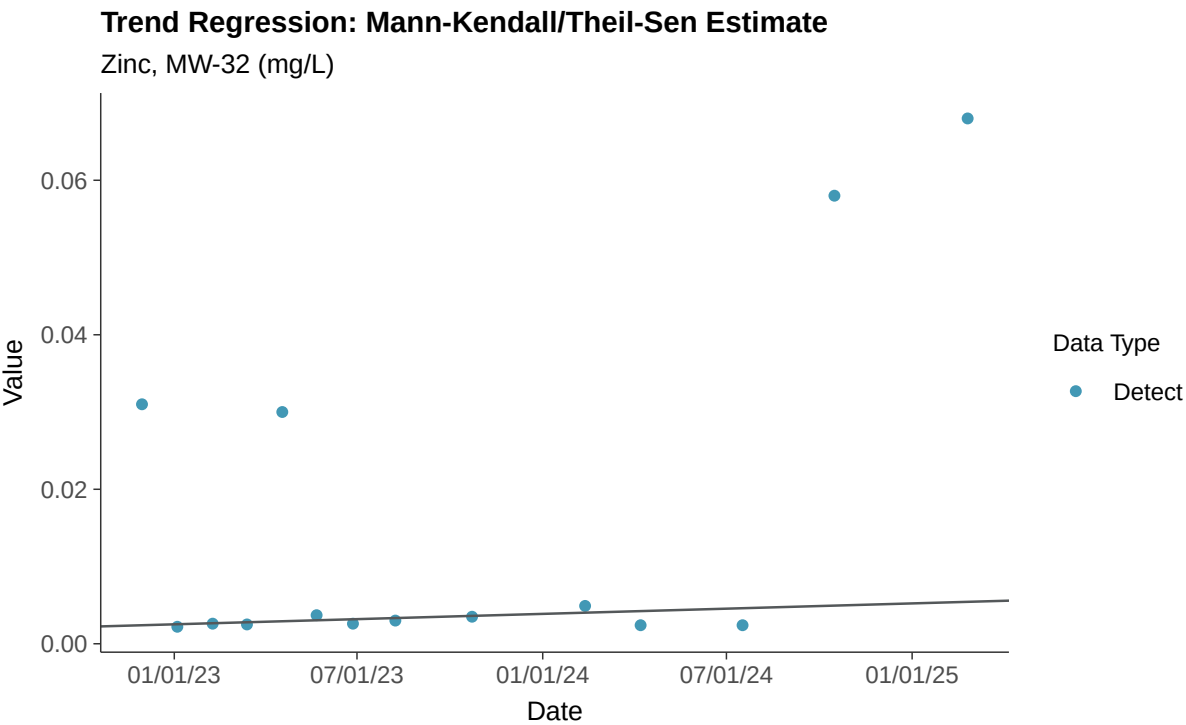
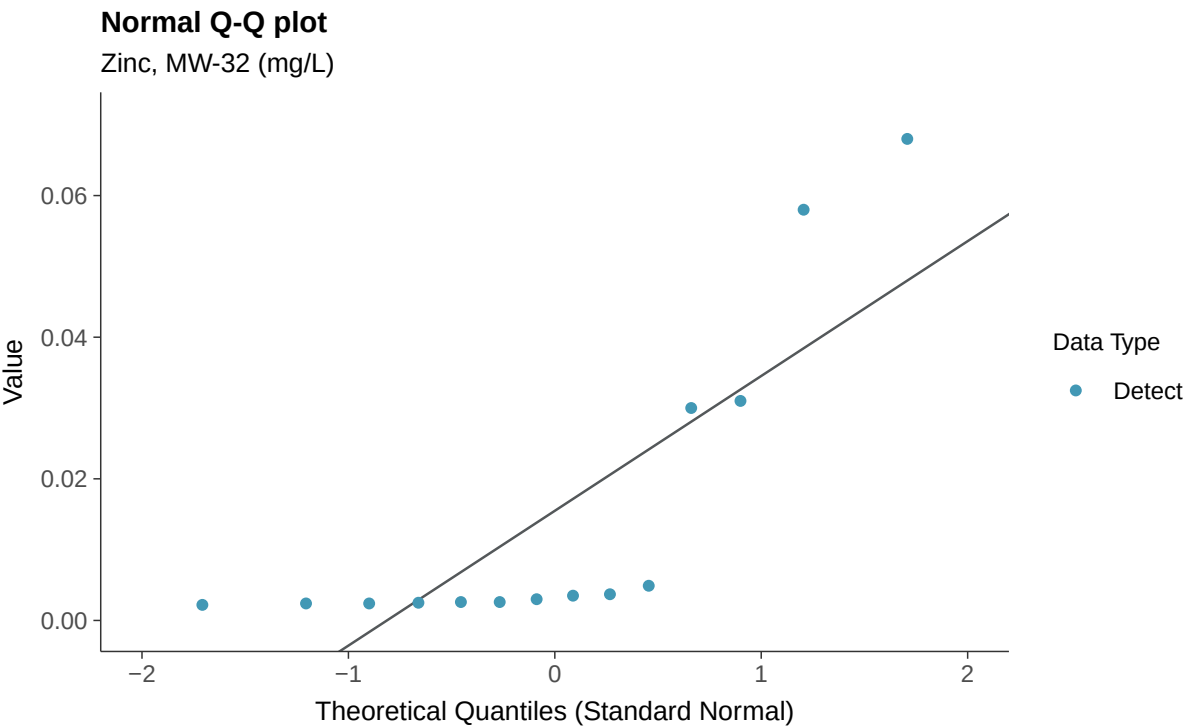


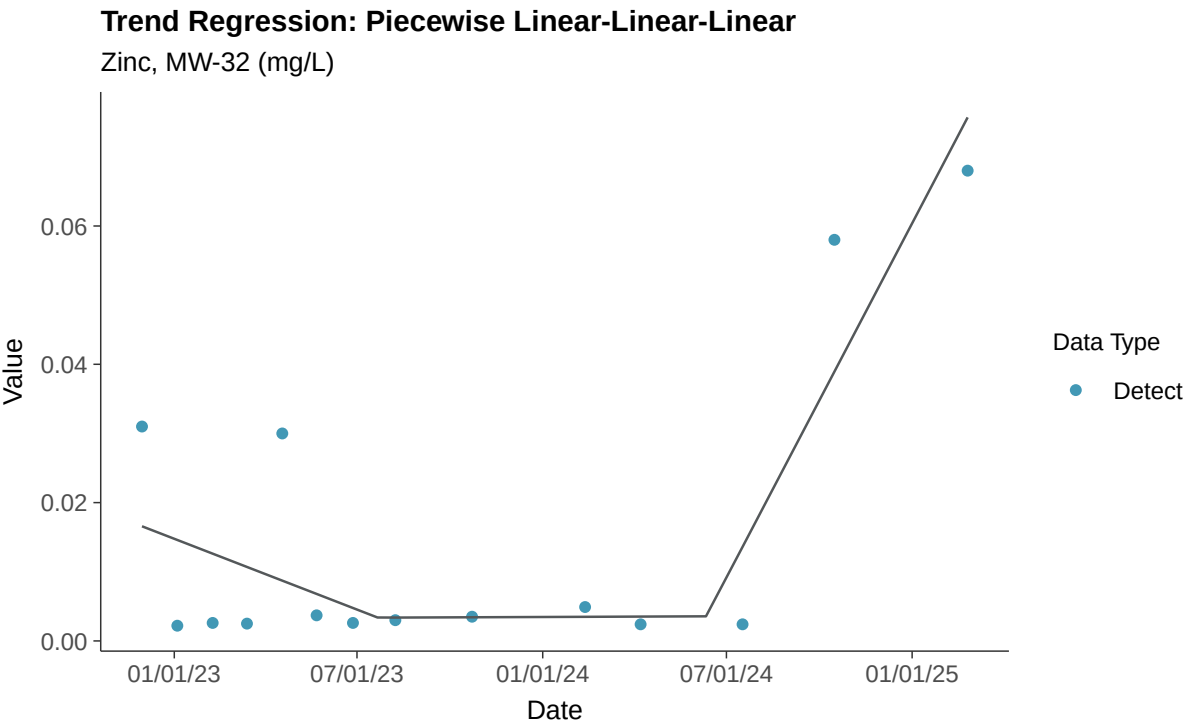
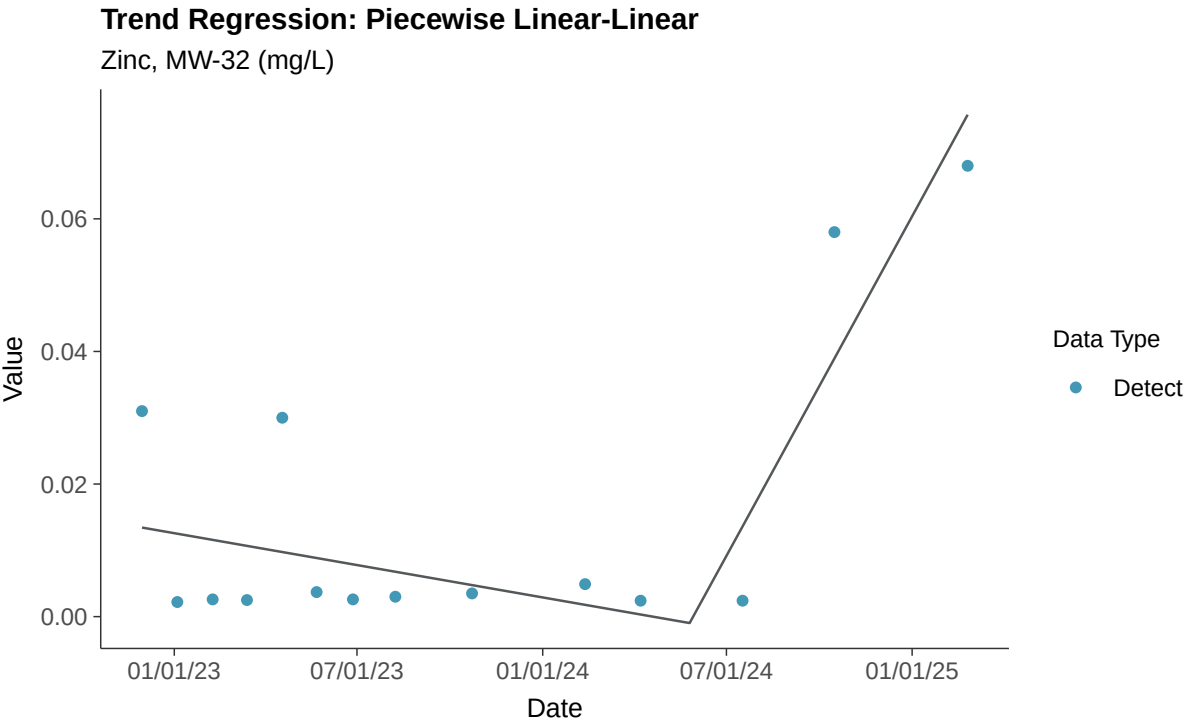
Part 115: Zinc, MW-32

ID: 42_1_5_129









Grand Haven, Downgradient Wells
95% Lower Confidence Limits

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	14	0%	89	Normal LCL
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	14	0%	200	Normal LCL
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	14	0%	110	Normal LCL
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	14	0%	8.8	Nonparametric LCL around the Median
11_2_3_120	MW-01R	Appendix III	pH (field)	su	14	0%	7.7	Nonparametric LCL around the Median
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	14	0%	290	Adjusted Gamma LCL
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	14	0%	2300	Normal LCL
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	14	21%	0.00025	Lognormal MLE Likelihood Profile LCL
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	14	0%	0.0013	Lognormal H-LCL
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	14	0%	0.28	Normal LCL
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	14	14%	0.00013	Normal MLE LCL
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	14	79%	0.000075	Nonparametric LCL around the Median
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	14	0%	0.0023	Lognormal H-LCL
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	14	0%	0.0013	Lognormal H-LCL
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	14	0%	8.8	Nonparametric LCL around the Median
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	14	14%	0.00079	Lognormal MLE Likelihood Profile LCL
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	14	0%	1.9	Normal LCL
11_2_4_117	MW-01R	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	14	7%	0.00079	Lognormal MLE Likelihood Profile LCL
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	13	54%	0.68	Nonparametric LCL around the Median
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	14	0%	0.00059	Adjusted Gamma LCL
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
11_2_5_111	MW-01R	Part 115	Copper	mg/L	14	36%	0.00020	Nonparametric LCL around the Median
11_2_5_114	MW-01R	Part 115	Iron	mg/L	14	0%	0.36	Normal LCL
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	14	0%	0.0016	Nonparametric LCL around the Median
11_2_5_123	MW-01R	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	14	14%	0.0011	Normal MLE LCL
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	14	21%	0.0012	Nonparametric LCL around the Median
12_2_3_105	MW-02	Appendix III	Boron	mg/L	14	0%	95	Nonparametric LCL around the Median
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	14	0%	190	Normal LCL
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	14	0%	140	Nonparametric LCL around the Median
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	14	0%	9.2	Nonparametric LCL around the Median
12_2_3_120	MW-02	Appendix III	pH (field)	su	14	0%	7.2	Normal LCL
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	14	64%	0.41	Nonparametric LCL around the Median
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	14	0%	1800	Normal LCL
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	14	21%	0.00017	Gamma MLE Normal Approx. LCL
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	14	0%	0.0074	Nonparametric LCL around the Median
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	14	0%	0.41	Normal LCL
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	14	7%	0.00020	Normal MLE LCL
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	14	71%	0.000075	Nonparametric LCL around the Median
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	14	0%	0.031	Normal LCL
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	14	0%	0.0047	Normal LCL
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	14	0%	9.2	Nonparametric LCL around the Median
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	14	7%	0.0019	Normal MLE LCL
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	14	0%	1.3	Normal LCL
12_2_4_117	MW-02	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	14	0%	0.0059	Lognormal H-LCL
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	13	31%	0.85	Normal MLE LCL
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	14	0%	0.0010	Normal LCL
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	14	93%	0.000075	Nonparametric LCL around the Median
12_2_5_111	MW-02	Part 115	Copper	mg/L	14	0%	0.0015	Normal LCL
12_2_5_114	MW-02	Part 115	Iron	mg/L	14	0%	22	Normal LCL
12_2_5_119	MW-02	Part 115	Nickel	mg/L	14	0%	0.017	Normal LCL
12_2_5_123	MW-02	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	14	7%	0.0028	Normal MLE LCL
12_2_5_129	MW-02	Part 115	Zinc	mg/L	14	0%	0.0024	Nonparametric LCL around the Median
13_2_3_105	MW-03	Appendix III	Boron	mg/L	14	0%	3.9	Normal LCL

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	14	0%	350	Normal LCL
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	14	0%	140	Normal LCL
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	14	0%	0.60	Nonparametric LCL around the Median
13_2_3_120	MW-03	Appendix III	pH (field)	su	14	0%	7.3	Normal LCL
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	14	0%	270	Normal LCL
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	14	0%	1900	Nonparametric LCL around the Median
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	14	57%	0.00010	Nonparametric LCL around the Median
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	14	0%	0.00082	Normal LCL
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	14	0%	0.31	Normal LCL
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	14	64%	0.000052	Nonparametric LCL around the Median
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	14	93%	0.000075	Nonparametric LCL around the Median
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	14	0%	0.0040	Normal LCL
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	14	0%	0.00064	Normal LCL
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	14	0%	0.60	Nonparametric LCL around the Median
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	14	93%	0.00022	Nonparametric LCL around the Median
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	14	0%	0.035	Normal LCL
13_2_4_117	MW-03	Appendix IV	Mercury	mg/L	14	93%	0.00016	Nonparametric LCL around the Median
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	14	71%	0.00025	Nonparametric LCL around the Median
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	13	8%	0.90	Normal MLE LCL
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	14	21%	0.00031	Normal MLE LCL
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	14	93%	0.000075	Nonparametric LCL around the Median
13_2_5_111	MW-03	Part 115	Copper	mg/L	14	43%	0.00020	Nonparametric LCL around the Median
13_2_5_114	MW-03	Part 115	Iron	mg/L	14	0%	0.91	Adjusted Gamma LCL
13_2_5_119	MW-03	Part 115	Nickel	mg/L	14	7%	0.0011	Nonparametric LCL around the Median
13_2_5_123	MW-03	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	14	64%	0.00062	Nonparametric LCL around the Median
13_2_5_129	MW-03	Part 115	Zinc	mg/L	14	57%	0.0012	Nonparametric LCL around the Median
14_2_3_105	MW-04	Appendix III	Boron	mg/L	14	0%	3.9	Normal LCL
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	14	0%	350	Normal LCL
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	14	0%	140	Normal LCL
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	14	0%	1.2	Normal LCL
14_2_3_120	MW-04	Appendix III	pH (field)	su	14	0%	7.3	Normal LCL
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	14	0%	580	Nonparametric LCL around the Median
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	14	0%	1800	Normal LCL
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	14	71%	0.00010	Nonparametric LCL around the Median
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	14	0%	0.00083	Adjusted Gamma LCL
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	14	0%	0.11	Nonparametric LCL around the Median
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	14	86%	0.000052	Nonparametric LCL around the Median
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	14	0%	0.0034	Normal LCL
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	14	0%	0.00036	Normal LCL
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	14	0%	1.2	Normal LCL
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	14	100%	0.00010	Nonparametric LCL around the Median
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	14	0%	0.055	Normal LCL
14_2_4_117	MW-04	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	14	14%	0.00074	Normal MLE LCL
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	13	23%	0.77	Normal MLE LCL
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	14	36%	0.00014	Normal MLE LCL
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
14_2_5_111	MW-04	Part 115	Copper	mg/L	14	86%	0.00020	Nonparametric LCL around the Median
14_2_5_114	MW-04	Part 115	Iron	mg/L	14	0%	5.0	Nonparametric LCL around the Median
14_2_5_119	MW-04	Part 115	Nickel	mg/L	14	0%	0.012	Normal LCL
14_2_5_123	MW-04	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	14	71%	0.00062	Nonparametric LCL around the Median
14_2_5_129	MW-04	Part 115	Zinc	mg/L	14	71%	0.0012	Nonparametric LCL around the Median
16_1_3_105	MW-06	Appendix III	Boron	mg/L	14	0%	8.6	Normal LCL
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	14	0%	240	Normal LCL
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	14	0%	53	Normal LCL
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	14	0%	1.1	Normal LCL

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
16_1_3_120	MW-06	Appendix III	pH (field)	su	14	0%	7.2	Nonparametric LCL around the Median
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	14	14%	5.3	Gamma MLE Normal Approx. LCL
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	14	0%	1200	Nonparametric LCL around the Median
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	14	86%	0.00010	Nonparametric LCL around the Median
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	14	0%	0.00061	Normal LCL
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	14	0%	1.3	Normal LCL
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	14	93%	0.000052	Nonparametric LCL around the Median
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	14	0%	0.0014	Adjusted Gamma LCL
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	14	0%	0.00045	Normal LCL
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	14	0%	1.1	Normal LCL
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	14	64%	0.00010	Nonparametric LCL around the Median
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	14	0%	0.16	Normal LCL
16_1_4_117	MW-06	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	14	57%	0.00025	Nonparametric LCL around the Median
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	13	23%	0.70	Lognormal MLE Likelihood Profile LCL
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	14	36%	0.00020	Nonparametric LCL around the Median
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
16_1_5_111	MW-06	Part 115	Copper	mg/L	14	79%	0.00020	Nonparametric LCL around the Median
16_1_5_114	MW-06	Part 115	Iron	mg/L	14	0%	15	Normal LCL
16_1_5_119	MW-06	Part 115	Nickel	mg/L	14	36%	0.00052	Normal MLE LCL
16_1_5_123	MW-06	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	14	93%	0.00062	Nonparametric LCL around the Median
16_1_5_129	MW-06	Part 115	Zinc	mg/L	14	14%	0.0012	Nonparametric LCL around the Median
17_1_3_105	MW-07	Appendix III	Boron	mg/L	14	0%	11	Nonparametric LCL around the Median
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	14	0%	140	Normal LCL
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	14	0%	14	Nonparametric LCL around the Median
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	14	21%	0.073	Normal MLE LCL
17_1_3_120	MW-07	Appendix III	pH (field)	su	14	0%	6.8	Normal LCL
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	14	0%	22	Normal LCL
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	14	0%	620	Nonparametric LCL around the Median
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	14	93%	0.000050	Nonparametric LCL around the Median
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	14	0%	0.00020	Normal LCL
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	14	0%	0.33	Normal LCL
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	14	79%	0.000052	Nonparametric LCL around the Median
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	14	100%	0.000032	Nonparametric LCL around the Median
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	14	0%	0.00032	Adjusted Gamma LCL
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	14	0%	0.00085	Normal LCL
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	14	21%	0.073	Normal MLE LCL
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	14	100%	0.00010	Nonparametric LCL around the Median
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	14	0%	0.0052	Normal LCL
17_1_4_117	MW-07	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	14	100%	0.00025	Nonparametric LCL around the Median
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	13	15%	0.80	Gamma MLE Normal Approx. LCL
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	14	64%	0.00010	Nonparametric LCL around the Median
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
17_1_5_111	MW-07	Part 115	Copper	mg/L	14	71%	0.00020	Nonparametric LCL around the Median
17_1_5_114	MW-07	Part 115	Iron	mg/L	14	0%	15	Normal LCL
17_1_5_119	MW-07	Part 115	Nickel	mg/L	14	93%	0.00065	Nonparametric LCL around the Median
17_1_5_123	MW-07	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	14	86%	0.00062	Nonparametric LCL around the Median
17_1_5_129	MW-07	Part 115	Zinc	mg/L	14	64%	0.0012	Nonparametric LCL around the Median
18_1_3_105	MW-08	Appendix III	Boron	mg/L	14	0%	5.3	Normal LCL
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	14	0%	130	Normal LCL
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	14	0%	24	Nonparametric LCL around the Median
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	14	0%	0.78	Normal LCL
18_1_3_120	MW-08	Appendix III	pH (field)	su	14	0%	7.2	Nonparametric LCL around the Median
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	14	29%	3.4	Gamma MLE Normal Approx. LCL
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	14	0%	520	Normal LCL

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	14	43%	0.000045	Normal MLE LCL
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	14	0%	0.027	Normal LCL
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	14	0%	1.1	Normal LCL
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	14	93%	0.000052	Nonparametric LCL around the Median
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	14	93%	0.000032	Nonparametric LCL around the Median
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	14	0%	0.00074	Normal LCL
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	14	0%	0.00042	Normal LCL
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	14	0%	0.78	Normal LCL
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	14	64%	0.00010	Nonparametric LCL around the Median
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	14	0%	0.093	Normal LCL
18_1_4_117	MW-08	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	14	0%	0.0010	Normal LCL
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	13	23%	0.73	Normal MLE LCL
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	14	36%	0.00014	Gamma MLE Normal Approx. LCL
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	14	93%	0.000075	Nonparametric LCL around the Median
18_1_5_111	MW-08	Part 115	Copper	mg/L	14	36%	0.00014	Normal MLE LCL
18_1_5_114	MW-08	Part 115	Iron	mg/L	14	0%	18	Normal LCL
18_1_5_119	MW-08	Part 115	Nickel	mg/L	14	0%	0.0011	Nonparametric LCL around the Median
18_1_5_123	MW-08	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	14	93%	0.00062	Nonparametric LCL around the Median
18_1_5_129	MW-08	Part 115	Zinc	mg/L	14	21%	0.0013	Nonparametric LCL around the Median
19_2_3_105	MW-09	Appendix III	Boron	mg/L	14	0%	5.5	Normal LCL
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	14	0%	330	Normal LCL
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	14	0%	16	Lognormal H-LCL
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	14	0%	2.4	Normal LCL
19_2_3_120	MW-09	Appendix III	pH (field)	su	14	0%	7.2	Normal LCL
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	14	0%	340	Normal LCL
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	14	0%	1200	Normal LCL
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	14	64%	0.00010	Nonparametric LCL around the Median
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	14	0%	0.0015	Nonparametric LCL around the Median
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	14	0%	0.26	Lognormal H-LCL
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	14	79%	0.000052	Nonparametric LCL around the Median
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	14	100%	0.000032	Nonparametric LCL around the Median
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	14	0%	0.0021	Normal LCL
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	14	0%	0.00041	Normal LCL
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	14	0%	2.4	Normal LCL
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	14	100%	0.00010	Nonparametric LCL around the Median
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	14	0%	0.29	Normal LCL
19_2_4_117	MW-09	Appendix IV	Mercury	mg/L	14	86%	0.00016	Nonparametric LCL around the Median
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	14	0%	0.018	Normal LCL
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	13	92%	0.69	Nonparametric LCL around the Median
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	14	14%	0.00023	Gamma MLE Normal Approx. LCL
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
19_2_5_111	MW-09	Part 115	Copper	mg/L	14	64%	0.00020	Nonparametric LCL around the Median
19_2_5_114	MW-09	Part 115	Iron	mg/L	14	0%	18	Normal LCL
19_2_5_119	MW-09	Part 115	Nickel	mg/L	14	0%	0.0012	Nonparametric LCL around the Median
19_2_5_123	MW-09	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	14	100%	0.00062	Nonparametric LCL around the Median
19_2_5_129	MW-09	Part 115	Zinc	mg/L	14	57%	0.0012	Nonparametric LCL around the Median
20_3_3_105	MW-10	Appendix III	Boron	mg/L	14	0%	13	Normal LCL
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	14	0%	240	Normal LCL
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	14	0%	200	Normal LCL
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	14	0%	4.4	Normal LCL
20_3_3_120	MW-10	Appendix III	pH (field)	su	14	0%	7.6	Normal LCL
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	14	0%	450	Normal LCL
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	14	0%	1700	Nonparametric LCL around the Median
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	14	71%	0.00010	Nonparametric LCL around the Median
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	14	0%	0.00048	Normal LCL
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	14	0%	0.23	Normal LCL

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	14	50%	0.000052	Nonparametric LCL around the Median
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	14	0%	0.0028	Normal LCL
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	14	7%	0.00033	Gamma MLE Normal Approx. LCL
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	14	0%	4.4	Normal LCL
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	14	86%	0.00012	Nonparametric LCL around the Median
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	14	0%	0.82	Normal LCL
20_3_4_117	MW-10	Appendix IV	Mercury	mg/L	14	93%	0.00016	Nonparametric LCL around the Median
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	14	0%	0.0024	Normal LCL
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	13	77%	0.70	Nonparametric LCL around the Median
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	14	7%	0.00030	Gamma MLE Normal Approx. LCL
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
20_3_5_111	MW-10	Part 115	Copper	mg/L	14	79%	0.00020	Nonparametric LCL around the Median
20_3_5_114	MW-10	Part 115	Iron	mg/L	14	0%	4.2	Normal LCL
20_3_5_119	MW-10	Part 115	Nickel	mg/L	14	50%	0.00065	Nonparametric LCL around the Median
20_3_5_123	MW-10	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	14	79%	0.00062	Nonparametric LCL around the Median
20_3_5_129	MW-10	Part 115	Zinc	mg/L	14	43%	0.0012	Gamma MLE Normal Approx. LCL
21_2_3_105	MW-11	Appendix III	Boron	mg/L	14	0%	4.3	Normal LCL
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	14	0%	230	Normal LCL
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	14	0%	61	Normal LCL
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	14	0%	0.44	Normal LCL
21_2_3_120	MW-11	Appendix III	pH (field)	su	14	0%	7.3	Normal LCL
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	14	36%	3.2	Gamma MLE Normal Approx. LCL
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	14	0%	950	Adjusted Gamma LCL
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	14	71%	0.00010	Nonparametric LCL around the Median
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	14	0%	0.0013	Adjusted Gamma LCL
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	14	0%	0.55	Normal LCL
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	14	79%	0.000052	Nonparametric LCL around the Median
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	14	86%	0.000075	Nonparametric LCL around the Median
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	14	0%	0.00063	Nonparametric LCL around the Median
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	14	0%	0.00045	Adjusted Gamma LCL
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	14	0%	0.44	Normal LCL
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	14	21%	0.00031	Nonparametric LCL around the Median
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	14	0%	0.045	Adjusted Gamma LCL
21_2_4_117	MW-11	Appendix IV	Mercury	mg/L	14	93%	0.00016	Nonparametric LCL around the Median
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	14	14%	0.00073	Normal MLE LCL
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	13	31%	0.65	Normal MLE LCL
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	14	21%	0.00017	Nonparametric LCL around the Median
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	14	93%	0.000075	Nonparametric LCL around the Median
21_2_5_111	MW-11	Part 115	Copper	mg/L	14	21%	0.00020	Nonparametric LCL around the Median
21_2_5_114	MW-11	Part 115	Iron	mg/L	14	0%	5.9	Normal LCL
21_2_5_119	MW-11	Part 115	Nickel	mg/L	14	0%	0.0011	Nonparametric LCL around the Median
21_2_5_123	MW-11	Part 115	Silver	mg/L	14	86%	0.000050	Nonparametric LCL around the Median
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	14	86%	0.00062	Nonparametric LCL around the Median
21_2_5_129	MW-11	Part 115	Zinc	mg/L	14	29%	0.0050	Gamma MLE Normal Approx. LCL
22_2_3_105	MW-12	Appendix III	Boron	mg/L	14	0%	0.27	Normal LCL
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	14	0%	59	Normal LCL
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	14	0%	17	Normal LCL
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	14	0%	0.28	Normal LCL
22_2_3_120	MW-12	Appendix III	pH (field)	su	14	0%	7.5	Normal LCL
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	14	0%	93	Normal LCL
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	14	0%	240	Normal LCL
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	14	0%	0.00056	Normal LCL
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	14	0%	0.0020	Normal LCL
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	14	0%	0.030	Normal LCL
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	14	100%	0.000052	Nonparametric LCL around the Median
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	14	0%	0.0011	Normal LCL
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	14	36%	0.00012	Normal MLE LCL

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	14	36%	0.0000028	Normal MLE LCL
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	14	0%	0.28	Normal LCL
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	14	43%	0.000088	Normal MLE LCL
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	14	0%	0.0030	Normal LCL
22_2_4_117	MW-12	Appendix IV	Mercury	mg/L	14	86%	0.00016	Nonparametric LCL around the Median
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	14	0%	0.0066	Adjusted Gamma LCL
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	13	69%	0.54	Nonparametric LCL around the Median
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	14	0%	0.00078	Adjusted Gamma LCL
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
22_2_5_111	MW-12	Part 115	Copper	mg/L	14	0%	0.0010	Normal LCL
22_2_5_114	MW-12	Part 115	Iron	mg/L	14	43%	0.026	Nonparametric LCL around the Median*
22_2_5_119	MW-12	Part 115	Nickel	mg/L	14	0%	0.0022	Normal LCL
22_2_5_123	MW-12	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	14	43%	0.00030	Normal MLE LCL
22_2_5_129	MW-12	Part 115	Zinc	mg/L	14	0%	0.0065	Normal LCL
28_1_3_105	MW-18	Appendix III	Boron	mg/L	14	0%	2.5	Normal LCL
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	14	0%	320	Normal LCL
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	14	0%	21	Normal LCL
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	14	0%	3.6	Normal LCL
28_1_3_120	MW-18	Appendix III	pH (field)	su	14	0%	7.1	Normal LCL
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	14	0%	730	Normal LCL
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	14	0%	1300	Normal LCL
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	14	21%	0.00012	Nonparametric LCL around the Median
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	14	0%	0.024	Normal LCL
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	14	0%	0.017	Normal LCL
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	14	86%	0.000052	Nonparametric LCL around the Median
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	14	43%	0.000026	Normal MLE LCL
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	14	93%	0.00018	Nonparametric LCL around the Median
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	14	0%	0.0023	Lognormal H-LCL
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	14	0%	3.6	Normal LCL
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	14	64%	0.00014	Nonparametric LCL around the Median
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	14	0%	0.031	Normal LCL
28_1_4_117	MW-18	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	14	0%	0.013	Normal LCL
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	13	62%	0.57	Nonparametric LCL around the Median
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	14	0%	0.00033	Normal LCL
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
28_1_5_111	MW-18	Part 115	Copper	mg/L	14	0%	0.00043	Nonparametric LCL around the Median
28_1_5_114	MW-18	Part 115	Iron	mg/L	14	0%	6.0	Normal LCL
28_1_5_119	MW-18	Part 115	Nickel	mg/L	14	0%	0.0056	Lognormal H-LCL
28_1_5_123	MW-18	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	14	100%	0.00062	Nonparametric LCL around the Median
28_1_5_129	MW-18	Part 115	Zinc	mg/L	14	0%	0.040	Normal LCL
29_1_3_105	MW-19	Appendix III	Boron	mg/L	14	0%	1.9	Normal LCL
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	14	0%	450	Normal LCL
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	14	0%	37	Normal LCL
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	14	0%	1.7	Normal LCL
29_1_3_120	MW-19	Appendix III	pH (field)	su	14	0%	6.8	Normal LCL
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	14	0%	910	Normal LCL
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	14	0%	1800	Normal LCL
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	14	86%	0.00010	Nonparametric LCL around the Median
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	14	0%	0.0045	Normal LCL
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	14	0%	0.037	Normal LCL
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	14	21%	0.000060	Normal MLE LCL
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	14	36%	0.00017	Normal MLE LCL
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	14	7%	0.00035	Normal MLE LCL
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	14	0%	1.7	Normal LCL
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	14	100%	0.00010	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	14	0%	0.086	Normal LCL
29_1_4_117	MW-19	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	14	0%	0.0088	Normal LCL
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	13	38%	0.48	Normal MLE LCL
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	14	71%	0.00010	Nonparametric LCL around the Median
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
29_1_5_111	MW-19	Part 115	Copper	mg/L	14	86%	0.00020	Nonparametric LCL around the Median
29_1_5_114	MW-19	Part 115	Iron	mg/L	14	0%	15	Normal LCL
29_1_5_119	MW-19	Part 115	Nickel	mg/L	14	7%	0.0021	Lognormal MLE Likelihood Profile LCL
29_1_5_123	MW-19	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	14	100%	0.00062	Nonparametric LCL around the Median
29_1_5_129	MW-19	Part 115	Zinc	mg/L	14	71%	0.0012	Nonparametric LCL around the Median
30_1_3_105	MW-20	Appendix III	Boron	mg/L	14	0%	0.87	Normal LCL
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	14	0%	120	Nonparametric LCL around the Median
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	14	0%	56	Normal LCL
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	14	0%	0.22	Nonparametric LCL around the Median
30_1_3_120	MW-20	Appendix III	pH (field)	su	14	0%	7.3	Normal LCL
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	14	0%	42	Normal LCL
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	14	0%	620	Normal LCL
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	14	29%	0.000075	Normal MLE LCL
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	14	0%	0.0013	Normal LCL
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	14	0%	0.45	Lognormal H-LCL
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	14	93%	0.000052	Nonparametric LCL around the Median
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	14	100%	0.000032	Nonparametric LCL around the Median
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	14	43%	0.00017	Normal MLE LCL
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	14	0%	0.0011	Normal LCL
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	14	0%	0.22	Nonparametric LCL around the Median
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	14	0%	0.0017	Normal LCL
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	14	0%	0.053	Normal LCL
30_1_4_117	MW-20	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	14	0%	0.0041	Normal LCL
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	13	54%	0.54	Nonparametric LCL around the Median
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	14	57%	0.00010	Nonparametric LCL around the Median
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	14	93%	0.000075	Nonparametric LCL around the Median
30_1_5_111	MW-20	Part 115	Copper	mg/L	14	14%	0.00024	Normal MLE LCL
30_1_5_114	MW-20	Part 115	Iron	mg/L	14	0%	18	Normal LCL
30_1_5_119	MW-20	Part 115	Nickel	mg/L	14	0%	0.0073	Normal LCL
30_1_5_123	MW-20	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	14	100%	0.00062	Nonparametric LCL around the Median
30_1_5_129	MW-20	Part 115	Zinc	mg/L	14	0%	0.026	Lognormal H-LCL
40_1_3_105	MW-30	Appendix III	Boron	mg/L	14	0%	1.7	Nonparametric LCL around the Median
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	14	0%	430	Nonparametric LCL around the Median
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	14	0%	98	Nonparametric LCL around the Median
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	14	0%	1.0	Nonparametric LCL around the Median
40_1_3_120	MW-30	Appendix III	pH (field)	su	14	0%	7.0	Normal LCL
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	14	0%	780	Normal LCL
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	14	0%	2100	Nonparametric LCL around the Median
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	14	86%	0.00010	Nonparametric LCL around the Median
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	14	14%	0.00035	Gamma MLE Normal Approx. LCL
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	14	0%	0.057	Normal LCL
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	14	86%	0.000052	Nonparametric LCL around the Median
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	14	0%	0.0074	Normal LCL
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	14	0%	0.00077	Nonparametric LCL around the Median
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	14	0%	1.0	Nonparametric LCL around the Median
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	14	93%	0.00022	Nonparametric LCL around the Median
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	14	0%	0.12	Lognormal H-LCL
40_1_4_117	MW-30	Appendix IV	Mercury	mg/L	14	93%	0.00016	Nonparametric LCL around the Median
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	14	21%	0.00062	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	13	54%	0.56	Nonparametric LCL around the Median
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	14	50%	0.00012	Nonparametric LCL around the Median
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median
40_1_5_111	MW-30	Part 115	Copper	mg/L	14	71%	0.00020	Nonparametric LCL around the Median
40_1_5_114	MW-30	Part 115	Iron	mg/L	14	0%	2.2	Normal LCL
40_1_5_119	MW-30	Part 115	Nickel	mg/L	14	21%	0.00080	Nonparametric LCL around the Median
40_1_5_123	MW-30	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	14	100%	0.00062	Nonparametric LCL around the Median
40_1_5_129	MW-30	Part 115	Zinc	mg/L	14	71%	0.0012	Nonparametric LCL around the Median
41_1_3_105	MW-31	Appendix III	Boron	mg/L	14	0%	4.3	Normal LCL
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	14	0%	160	Normal LCL
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	14	0%	98	Normal LCL
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	14	0%	4.6	Normal LCL
41_1_3_120	MW-31	Appendix III	pH (field)	su	14	0%	7.8	Normal LCL
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	14	0%	120	Normal LCL
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	14	0%	770	Normal LCL
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	14	43%	0.000076	Gamma MLE Normal Approx. LCL
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	14	0%	0.0011	Normal LCL
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	14	0%	0.15	Normal LCL
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	14	86%	0.000052	Nonparametric LCL around the Median
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	14	93%	0.000032	Nonparametric LCL around the Median
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	14	0%	0.0021	Normal LCL
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	14	14%	0.00013	Normal MLE LCL
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	14	0%	4.6	Normal LCL
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	14	86%	0.00010	Nonparametric LCL around the Median
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	14	0%	0.047	Normal LCL
41_1_4_117	MW-31	Appendix IV	Mercury	mg/L	14	100%	0.00016	Nonparametric LCL around the Median
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	14	0%	0.0011	Normal LCL
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	13	31%	0.56	Gamma MLE Normal Approx. LCL
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	14	43%	0.00012	Nonparametric LCL around the Median
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	14	93%	0.000075	Nonparametric LCL around the Median
41_1_5_111	MW-31	Part 115	Copper	mg/L	14	64%	0.00020	Nonparametric LCL around the Median
41_1_5_114	MW-31	Part 115	Iron	mg/L	14	0%	0.19	Nonparametric LCL around the Median
41_1_5_119	MW-31	Part 115	Nickel	mg/L	14	71%	0.00065	Nonparametric LCL around the Median
41_1_5_123	MW-31	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	14	86%	0.00062	Nonparametric LCL around the Median
41_1_5_129	MW-31	Part 115	Zinc	mg/L	14	64%	0.0012	Nonparametric LCL around the Median
42_1_3_105	MW-32	Appendix III	Boron	mg/L	14	0%	3.2	Lognormal H-LCL
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	14	0%	160	Normal LCL
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	14	0%	43	Normal LCL
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	14	0%	1.4	Normal LCL
42_1_3_120	MW-32	Appendix III	pH (field)	su	14	0%	7.6	Normal LCL
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	14	0%	51	Adjusted Gamma LCL
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	14	0%	640	Normal LCL
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	14	71%	0.000072	Nonparametric LCL around the Median
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	14	0%	0.00046	Nonparametric LCL around the Median
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	14	0%	0.42	Normal LCL
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	14	93%	0.000052	Nonparametric LCL around the Median
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	14	93%	0.000032	Nonparametric LCL around the Median
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	14	0%	0.00033	Nonparametric LCL around the Median
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	14	0%	0.00038	Adjusted Gamma LCL
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	14	0%	1.4	Normal LCL
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	14	71%	0.00010	Nonparametric LCL around the Median
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	14	0%	0.11	Normal LCL
42_1_4_117	MW-32	Appendix IV	Mercury	mg/L	14	93%	0.00016	Nonparametric LCL around the Median
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	14	0%	0.0037	Normal LCL
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	13	62%	0.57	Nonparametric LCL around the Median
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	14	79%	0.00010	Nonparametric LCL around the Median
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	14	100%	0.000075	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	% NDs	LCL	Method
42_1_5_111	MW-32	Part 115	Copper	mg/L	14	57%	0.00020	Nonparametric LCL around the Median
42_1_5_114	MW-32	Part 115	Iron	mg/L	14	0%	14	Normal LCL
42_1_5_119	MW-32	Part 115	Nickel	mg/L	14	0%	0.00086	Nonparametric LCL around the Median
42_1_5_123	MW-32	Part 115	Silver	mg/L	14	100%	0.000050	Nonparametric LCL around the Median
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	14	100%	0.00062	Nonparametric LCL around the Median
42_1_5_129	MW-32	Part 115	Zinc	mg/L	14	0%	0.0025	Nonparametric LCL around the Median

* Due to non-convergence of the estimator or negative parametric lower confidence limit, non-parametric methods were used