

Renew Harbor Island



Work today, protect tomorrow.

3rd Quarter 2025 Groundwater Monitoring Report

For Michigan Part 115 CCR Solid Waste
Regulations

Former J.B. Sims Generating Station

October 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 through 2025 and 2026 to further support the remedy selection process.

This Groundwater Monitoring Report presents the activities completed in the third quarter of 2025.

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 the 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 three quarters of 2025.



Figure 1 | Site Vicinity Map

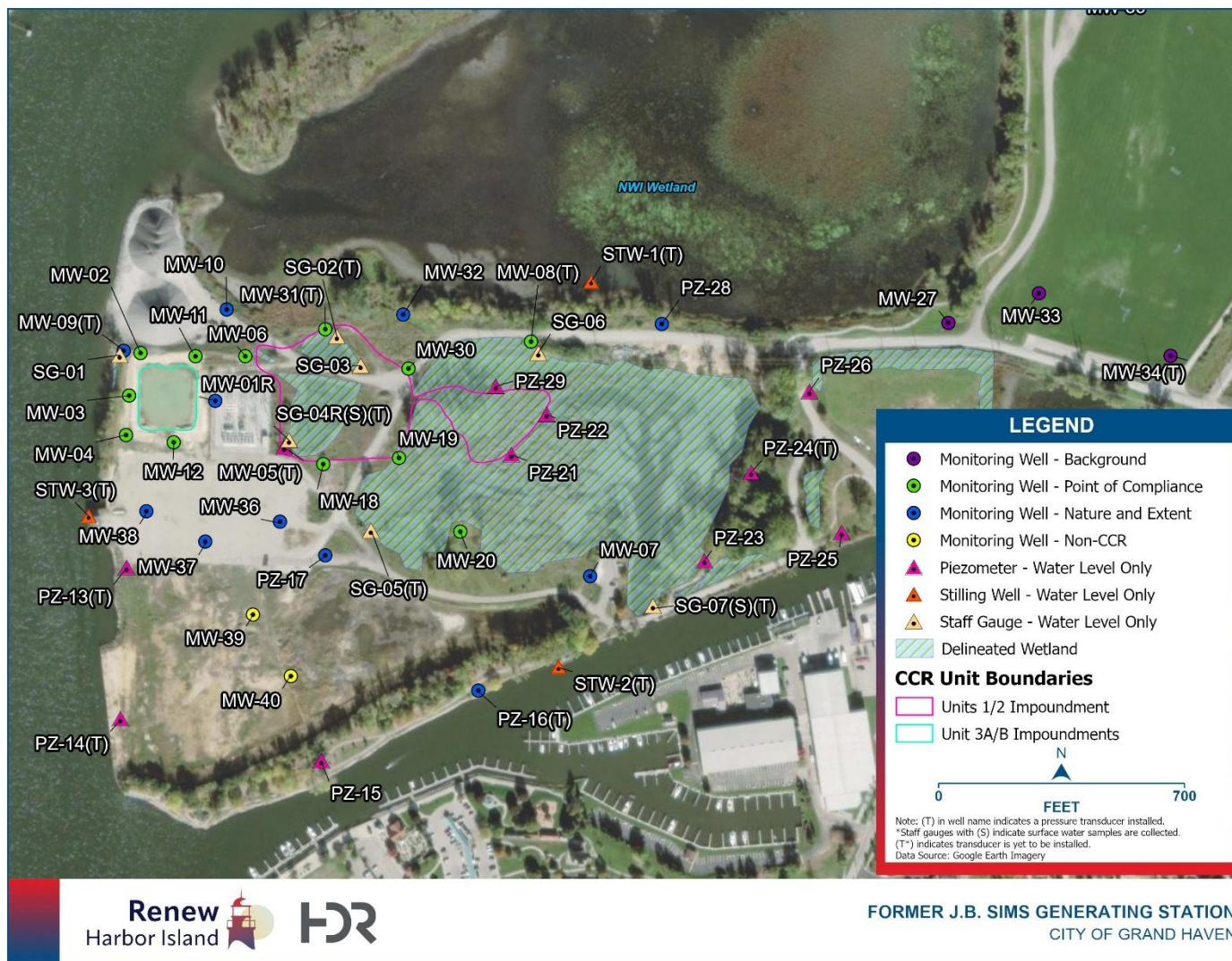


Figure 2 | Former J.B. Sims CCR Units and Monitoring Wells

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 of 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 is not associated with Units 1/2 Impoundment. EGLE and EPA indicated that the North Channel ash will be evaluated 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 (**Figure 2**). 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 is being conducted in 2025 to define the extent of any residual CCR on roadways adjacent to the Unit 3A/B Impoundments from ash removal construction trucks.

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 continuous clay observed between 20.8 and 39.0 feet below surface. The clay has been observed between these depths in borings MW-12, MW-17, PZ-16, PZ-26, PZ-24, PZ-25, and MW-30.

The Grand River is located on the western side of Harbor Island, and the South Channel of the Grand River is located on the south side of Harbor Island. The northern side of Harbor Island is bordered by the Northern wetland, which is typically embayed by the Grand River during high

river stages. The center of Harbor Island is the Internal Wetland. Other influences to groundwater flow on the island include:

- Fill materials observed in boring logs
- Surface water features, such as the inactive Units 1/2 Impoundment and Internal Wetland
- The former coal pile area, which may have lower infiltration rates than other areas on the Island due to compaction from heavy equipment and former stockpiling of coal.

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 typically present around monitoring well MW-01R, consistent with observations made by Golder in 2021 (Golder, 2022). A groundwater contour map from the third quarter 2025 sampling is in **Appendix C**. 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 C**). The Internal Wetland east of the Units 1/2 Impoundment provides 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 of 172.51 feet per day at MW-17 and 242.25 feet per day at MW-20 were observed in wells near the Internal Wetland (Golder, 2022), potentially related to trash and loose sand in the screened intervals. Additional slug tests were performed in July and August 2024 at wells MW-10, MW-12, PZ-15, MW-16, MW-32, MW-36, and MW-40, while re-testing wells MW-17 and MW-20. Excluding wells MW-17 and MW-20, the hydraulic conductivity values ranged from 0.36 to 24.4 feet per day, which is a similar range measured by Golder (2022). Tests at wells MW-17 and MW-20 confirmed the anomalously high conductivity values that were 53% and 35% higher than measured in 2022. 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 for each impoundment is described below.

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, PZ-13, MW-38, and MW-39

Wells MW-01R and MW-04 were identified as having ash constituents in soils above their screened intervals, and therefore have been identified for replacement. In the fourth quarter 2025, new boreholes will be drilled a short distance from the existing MW-01R and MW-04 and replacement wells will be constructed if no CCR is present above the screened zone. The current MW-01R and MW-04 will be abandoned following construction of the replacement wells.

Water Level Wells

The following piezometers are monitored for water level only and are not sampled: MW-05, PZ-14, PZ-15, PZ-21, PZ-22, PZ-23, PZ-24, PZ-25, PZ-26, PZ-29, MW-35, 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 measure and record groundwater elevations at one-hour intervals, and are described in further detail in Section 4.1.

3.0 Monitoring

3.1 Groundwater Monitoring

Table 1 provides well identification numbers, well locations, the dates samples were collected during Quarter 3 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 third quarter began on August 11, 2025. Monitoring water levels across the network was completed on the same day.

Table 1. Dates of Groundwater Monitoring in Third Quarter 2025		
Monitoring Well I.D.	Date Sampled	Monitoring Purpose
Background Monitoring Wells		
MW-27	8/12/2025	Assessment Monitoring
MW-33	8/12/2025	Assessment Monitoring
MW-34	8/12/2025	Assessment Monitoring
Units 1/2 Compliance Monitoring Wells		
MW-06	8/14/2025	Detection Monitoring/Initial Assessment Monitoring
MW-08	8/14/2025	Detection Monitoring/Initial Assessment Monitoring
MW-18	8/12/2025	Detection Monitoring/Initial Assessment Monitoring
MW-19	8/12/2025	Detection Monitoring/Initial Assessment Monitoring
MW-20	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
MW-30	8/11/2025	Detection Monitoring/Initial Assessment Monitoring
MW-31	8/12/2025	Detection Monitoring/Initial Assessment Monitoring
Unit 3A/B Compliance Monitoring Wells		
MW-02	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
MW-03	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
MW-04	8/11/2025	Detection Monitoring/Initial Assessment Monitoring
MW-11	8/14/2025	Detection Monitoring/Initial Assessment Monitoring
MW-12	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
Nature and Extent Wells		
MW-01R	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
MW-07	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
MW-09	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
MW-10	8/14/2025	Detection Monitoring/Initial Assessment Monitoring
PZ-13	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
MW-16	8/13/2025	Detection Monitoring/Initial Assessment Monitoring
MW-17	8/12/2025	Detection Monitoring/Initial Assessment Monitoring
MW-28	8/14/2025	Detection Monitoring/Initial Assessment Monitoring
MW-32	8/11/2025	Detection Monitoring/Initial Assessment Monitoring
MW-36	8/12/2025	Detection Monitoring/Initial Assessment Monitoring
MW-37	8/12/2025	Detection Monitoring/Initial Assessment Monitoring
MW-38	8/12/2025	Detection Monitoring/Initial Assessment Monitoring

Table 1. Dates of Groundwater Monitoring in Third Quarter 2025

Monitoring Well I.D.	Date Sampled	Monitoring Purpose
MW-39	8/13/2025	Water Level Only
Water Level Only Wells		
MW-05	8/11/2025	Water Level Only
PZ-14	8/11/2025	Water Level Only
PZ-15	8/11/2025	Water Level Only
PZ-23	8/11/2025	Water Level Only
PZ-24	8/11/2025	Water Level Only
PZ-25	8/11/2025	Water Level Only
PZ-26	8/11/2025	Water Level Only
PZ-29	8/11/2025	Water Level Only
MW-35	8/11/2025	Water Level Only
MW-40	8/11/2025	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**), but in August 2025 only one surface water sample was collected (SG-07) due to dry conditions at SG-02, SG-04R, and SG-05. Surface water monitoring dates are shown in **Table 2**. Deviations from the work plan are outlined in **Section 3.3**.

Table 2. Dates of Surface Water Monitoring in Third Quarter 2025

Well ID	Monitoring Date
SG-01	8/11/2025 ¹
SG-02	8/11/2025 ¹
SG-03	8/11/2025 ¹
SG-04R	8/11/2025 ¹
SG-05	8/11/2025 ¹
SG-06	8/11/2025 ¹
SG-07	8/13/2025
STW-1	8/11/2025 ¹
STW-2	8/11/2025
STW-3	8/11/2025

¹ – Monitoring location was dry, no surface water level was measured at the 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; collected at monitoring wells MW-33 and MW-36). The following deviations from the Hydrogeologic Monitoring Plan for CCR Compliance were noted during the third quarter 2025 sampling event:

- Water levels were not measured in August 2025 at piezometers PZ-21 and PZ-22 due to deep water limiting access.
- In August 2025, water levels were not measured at staff gauges SG-01, SG-02, SG-03, SG-04R, SG-05, SG-06, and at stilling well STW-1 due to low surface water conditions leaving the staff gauges and stilling well dry.
- Transducers and housing at STW-2 and STW-3 are currently broken due to ice flow of the river and will be repaired in the fourth quarter 2025. Grand River water levels were measured as depths from the current top-of-casing at each point.

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 third quarter 2025 sampling event using the data provided in **Table 4**. The map displays the groundwater elevations and inferred potentiometric contours, and is provided in **Appendix C**. A hydrograph illustrating groundwater levels in monitoring wells near the Units 1/2 Impoundment for the November 2022 through August 2025 monitoring period is shown in **Figure 3**. Groundwater around the perimeter of the impoundment has ranged from approximately 578.30 to 581.50 feet above mean sea level (ft AMSL) during this period. A hydrograph illustrating groundwater levels in perimeter wells surrounding the Units 3A/B Impoundments (**Figure 4**) indicates groundwater elevation beneath the impoundment ranged from 578.93 to 582.35 ft ASML during the November 2022 through August 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**.

Groundwater beneath the former CCR impoundments is inferred to be generally radial, flowing toward the Grand River, the North Channel, and the Internal Wetland. 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 the 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. Groundwater flow near the North Channel outlet between SG-02 toward MW-31 has been inferred to be towards the north. During August 2025, some wells near the Unit 1/2 Impoundment and the Internal Wetland declined to below the stage of the Grand River, due to high rates of evapotranspiration in the Internal Wetland area, and below-average precipitation during this period.

Groundwater flow observed at background wells MW-27, MW-33, and MW-34 is consistent with previous observations. Because groundwater typically 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 Third Quarter 2025

Well ID	Groundwater Elevation (08/11/2025)
MW-01R	589.93
MW-02	579.58
MW-03	579.70
MW-04	579.69
MW-05	579.06
MW-06	579.11
MW-07	579.62
MW-08	579.26
MW-09	579.38
MW-10	579.52
MW-11	579.59
MW-12	579.98
PZ-13	579.49
PZ-14	579.53
PZ-15	579.86
MW-16	579.34
MW-17	579.66
MW-18	579.34
MW-19	579.07**
MW-20	579.30
PZ-21	Inaccessible
PZ-22	Inaccessible
PZ-23	579.84
PZ-24	578.81
PZ-25	579.76
PZ-26	579.05
MW-27	578.69
MW-28	579.73
PZ-29	579.63
MW-30	579.17
MW-31	578.30
MW-32	579.25
MW-33	579.81
MW-34	579.41
MW-35	580.43
MW-36	580.21
MW-37	579.81
MW-38	579.81
MW-39	579.84
MW-40	580.16
SG-01	DRY

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

Well ID	Groundwater Elevation (08/11/2025)
SG-02	DRY
SG-03	DRY
SG-04R	DRY
SG-05	DRY
SG-06	DRY
SG-07	579.32
STW-1	DRY
STW-2	579.46
STW-3	579.52

** - The manual water level measurement for PZ-19 was adjusted by 1.00 feet to 579.07 based on the transducer measurements.

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	579.76	0.0012	0.034
PZ-26					579.05		
PZ-25		400	0.3	8.342 ²	579.76	0.0001	0.004
PZ-23					579.84		
MW-01R	Western	247	0.3	6.233 ³	579.93	0.0004	0.008
MW-03					579.70		
MW-01R		274	0.3	6.233 ³	579.93	0.0004	0.009
MW-04					579.69		
MW-01R		226	0.3	6.233 ³	579.93	0.0015	0.0031
MW-05					579.06		
MW-01R		262	0.3	6.233 ³	579.93	0.0007	0.015
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).

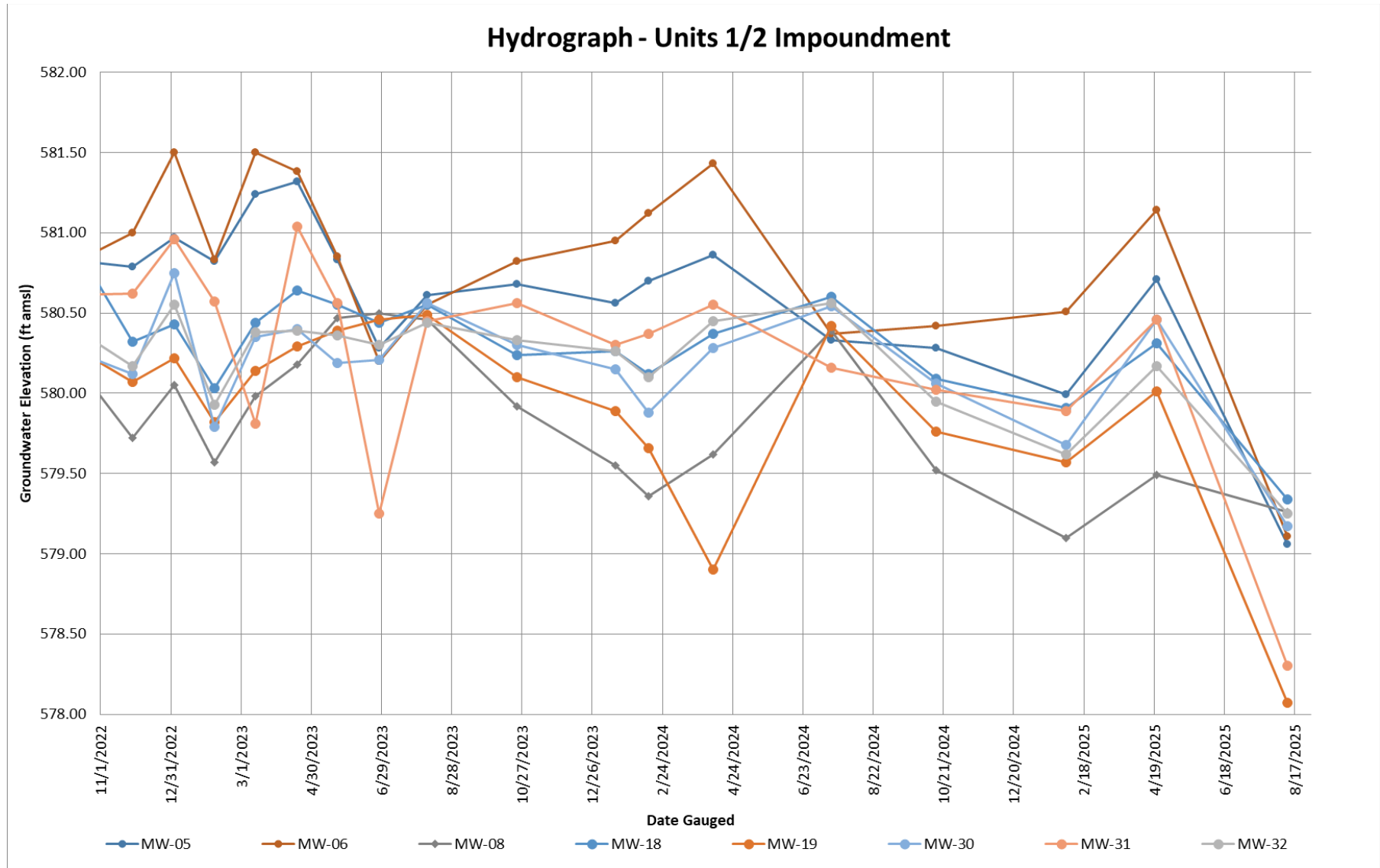


Figure 3 | Hydrograph of Wells Near Units 1/2 Impoundment

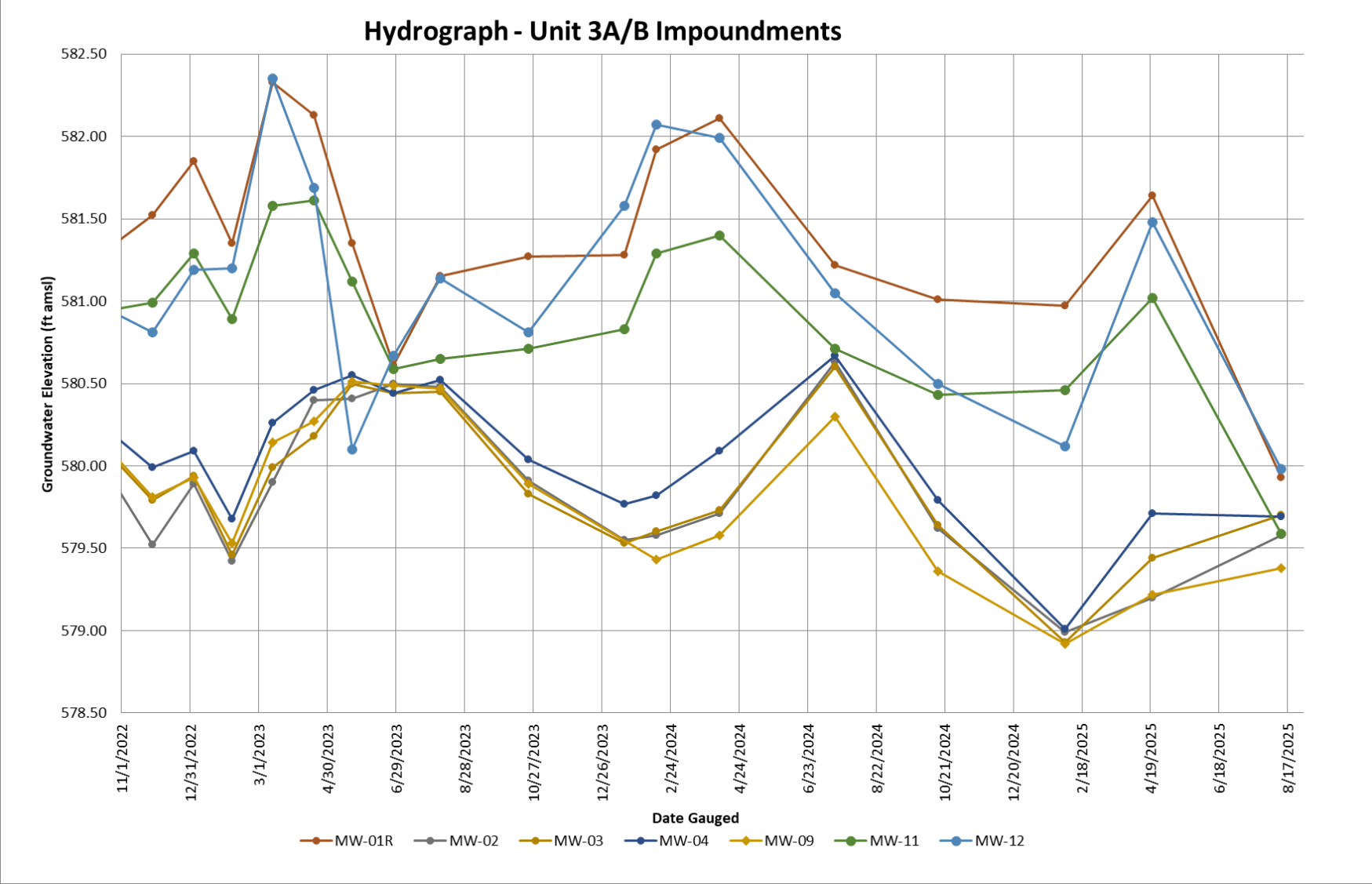


Figure 4 | Hydrograph of Wells and Piezometers Near Unit 3A/B Impoundments

Pressure transducers were installed at the locations shown in **Figure 5**. Transducer data has been collected from December 21, 2023 through the most recent download on April 21, 2025. Of note, six of the 17 transducers are not currently recording usable data due to the following:

- The SG-05 cable was severed by wildlife.
- The STW-2 cable and PVC stilling well were severed by ice flows in the Grand River.
- The STW-3 transducer experienced an internal memory failure, and the PVC stilling well was severed by ice.
- The MW-09 transducer is logging, but appears to have an internal sensor error recording anomalous data.
- The STW-1 transducer is functioning but the monitoring point is dry due to low river stage in the Northern wetland.
- The SG-07 transducer is recording data but the gauge may have shifted due to ice flows and needs to be resurveyed.

Trends observed from the limited dataset are as follows:

- The surface water elevation at SG-02 is generally higher than the groundwater elevation at MW-31, with the exception of specific dates where well MW-31 groundwater levels peak following 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 for the majority of the time, surface water at the north side of the Units 1/2 Impoundment discharges to groundwater and flows north toward the north wetland. The hydrograph also shows that in late June 2025, the pond dried up, and groundwater levels fell more than one foot below the surface of the 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, located at the southern end of Wetland 1, during periods of significant precipitation. However, for the majority of the time, and in particular since May 2025, the groundwater elevation at MW-05 is below the surface of the impoundment, indicating that surface water discharges to groundwater flow towards the south or southwest. A graph of the measurements is shown on **Figure 7**.
- Groundwater at well MW-16, located on the south side of the Island near the South Channel, is higher than surface water at stilling well STW-2 through the fall, winter and spring, indicating groundwater flow is toward the South Channel for the majority of the year. Due to the loss of the STW-2 transducer, the Lake Michigan stage data has been used to supplement the approximate stage of the Grand River¹. During summer 2024, the

¹ National Oceanic and Atmospheric Administration (NOAA) Tides and Currents website, station 9087031 (Holland, MI) - [Water Levels - NOAA Tides & Currents](#)



MW-16 groundwater elevation was approximately equal to the South Channel stage at STW-2, meaning that there is very limited groundwater flow from the Island to the river. 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, despite the close proximity. A graph of the measurements is shown on **Figure 9**.
- 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 10**.
- 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 11**.



Figure 5 | Transducer Deployment Map

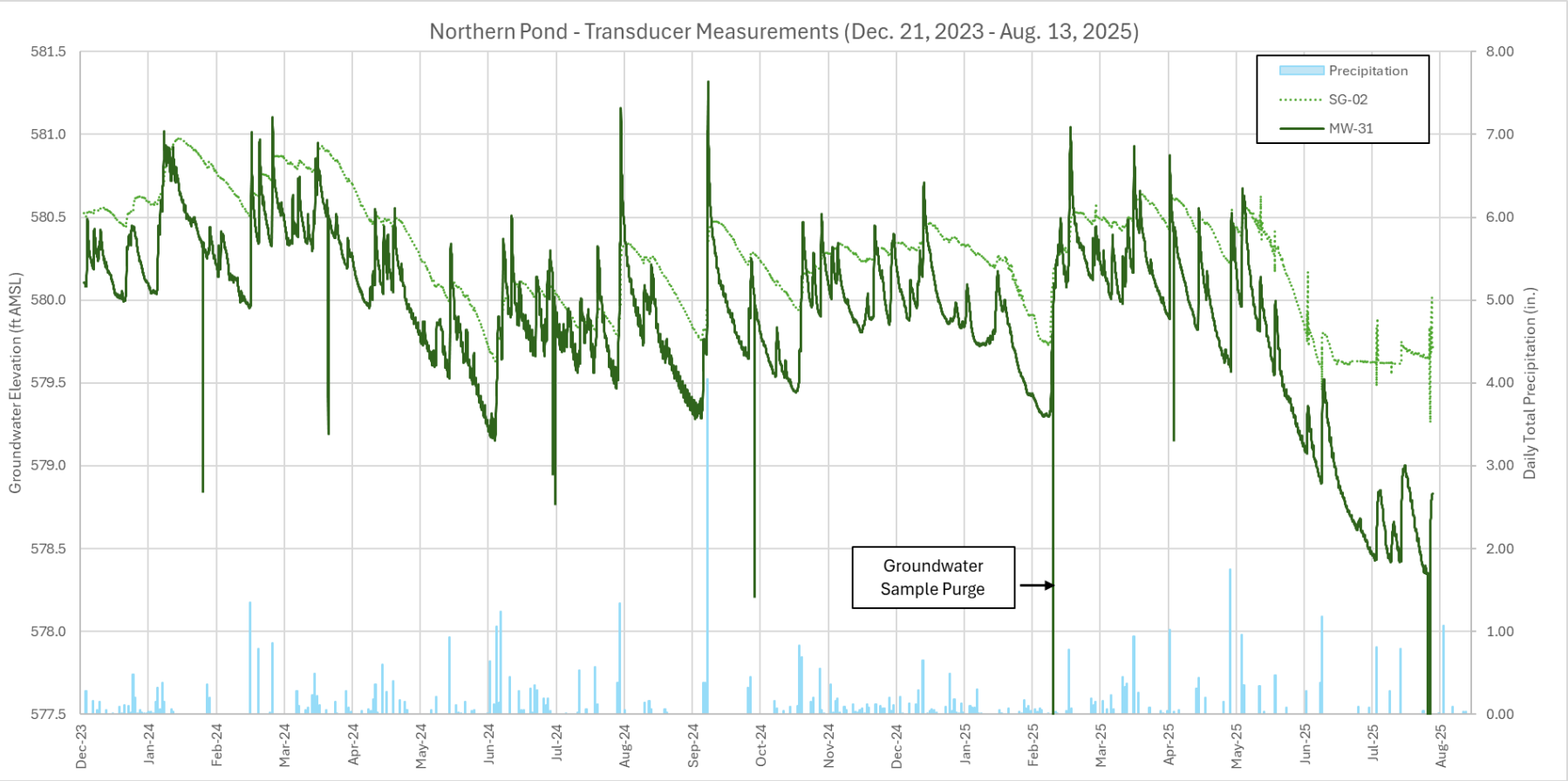


Figure 6 | Transducer Measurement Graph SG-02 and MW-31

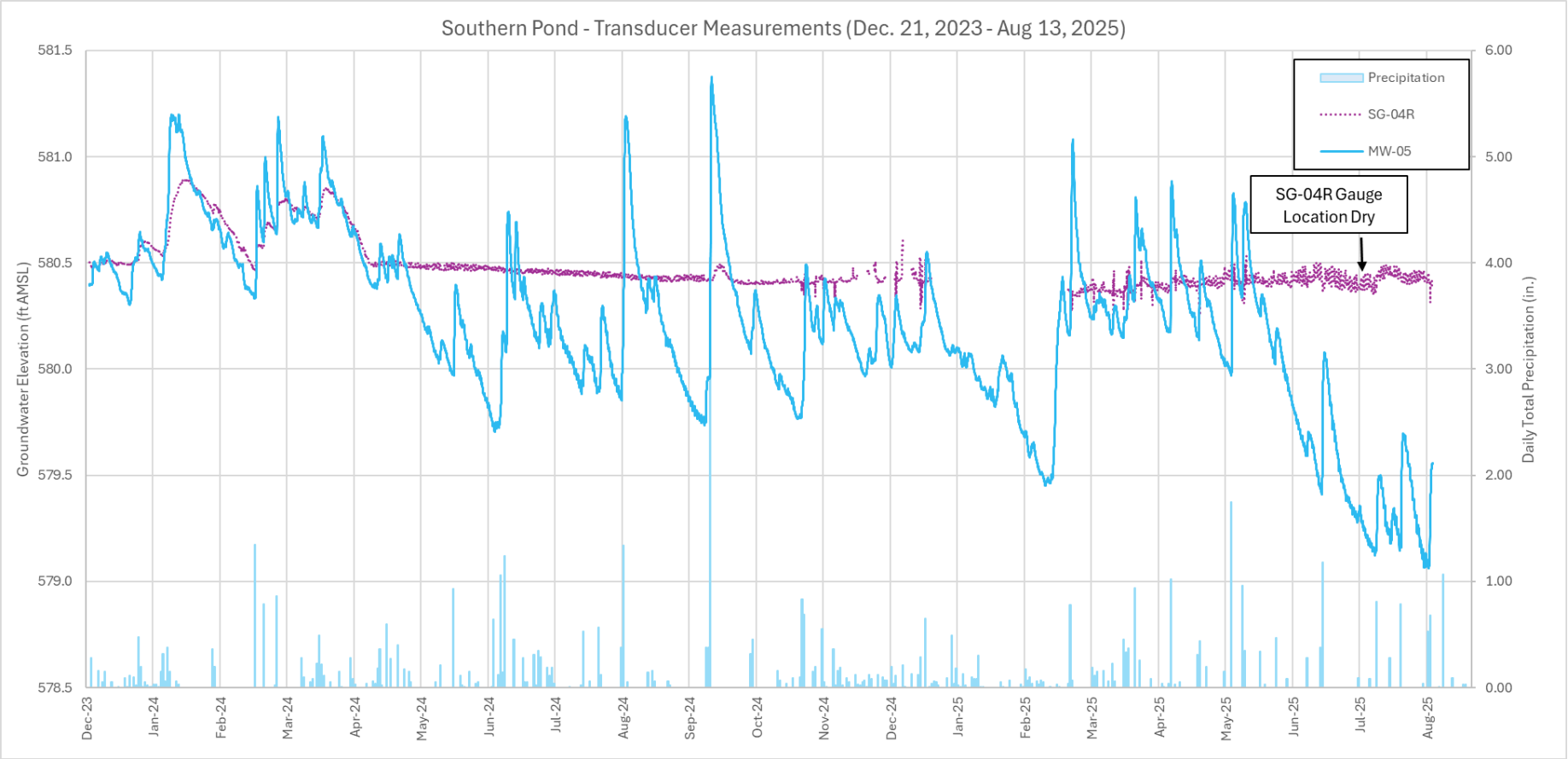


Figure 7 | Transducer Measurement Graph SG-04R and MW-05

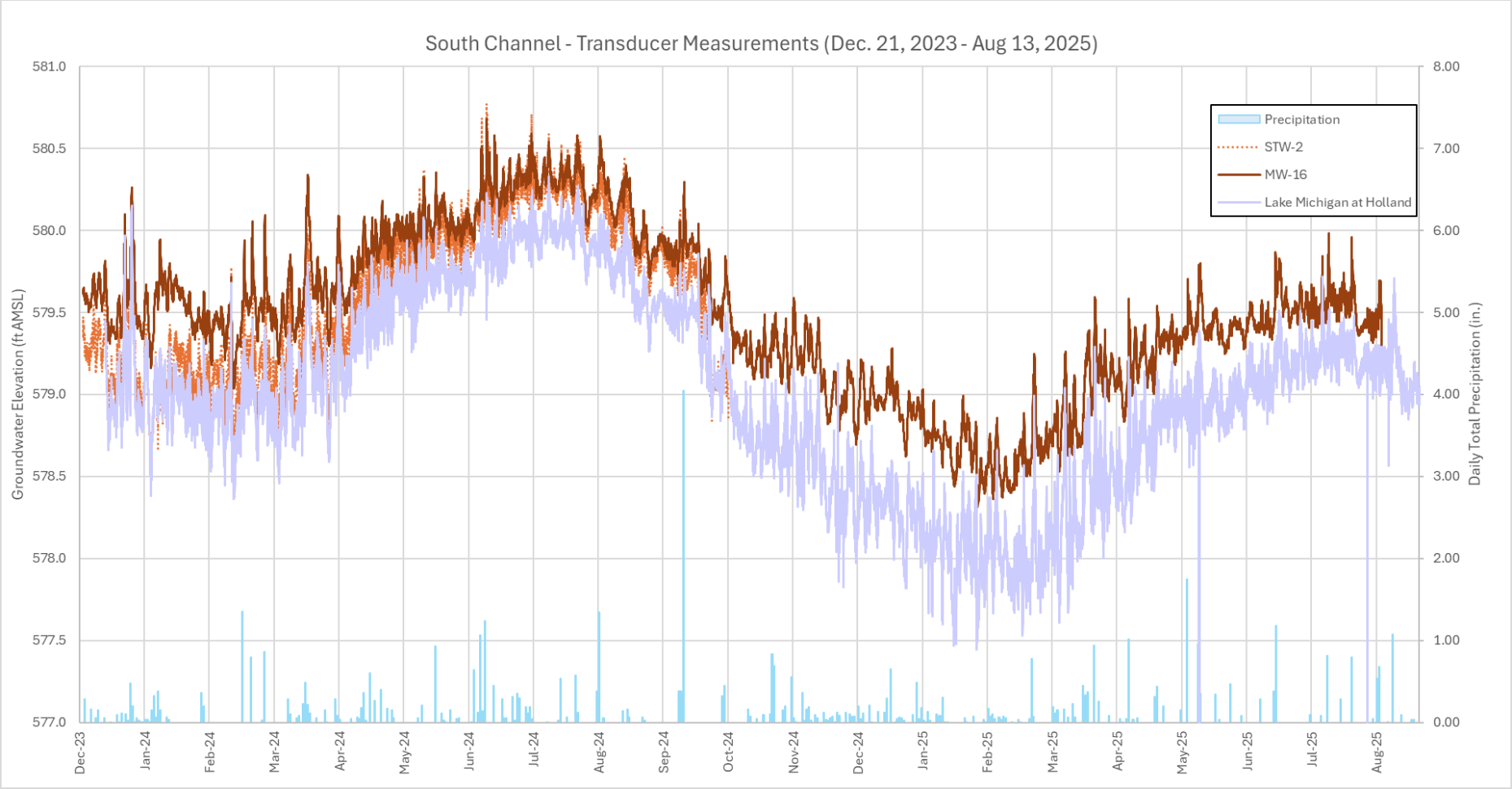


Figure 8 | Transducer Measurement Graph STW-2 and MW-16

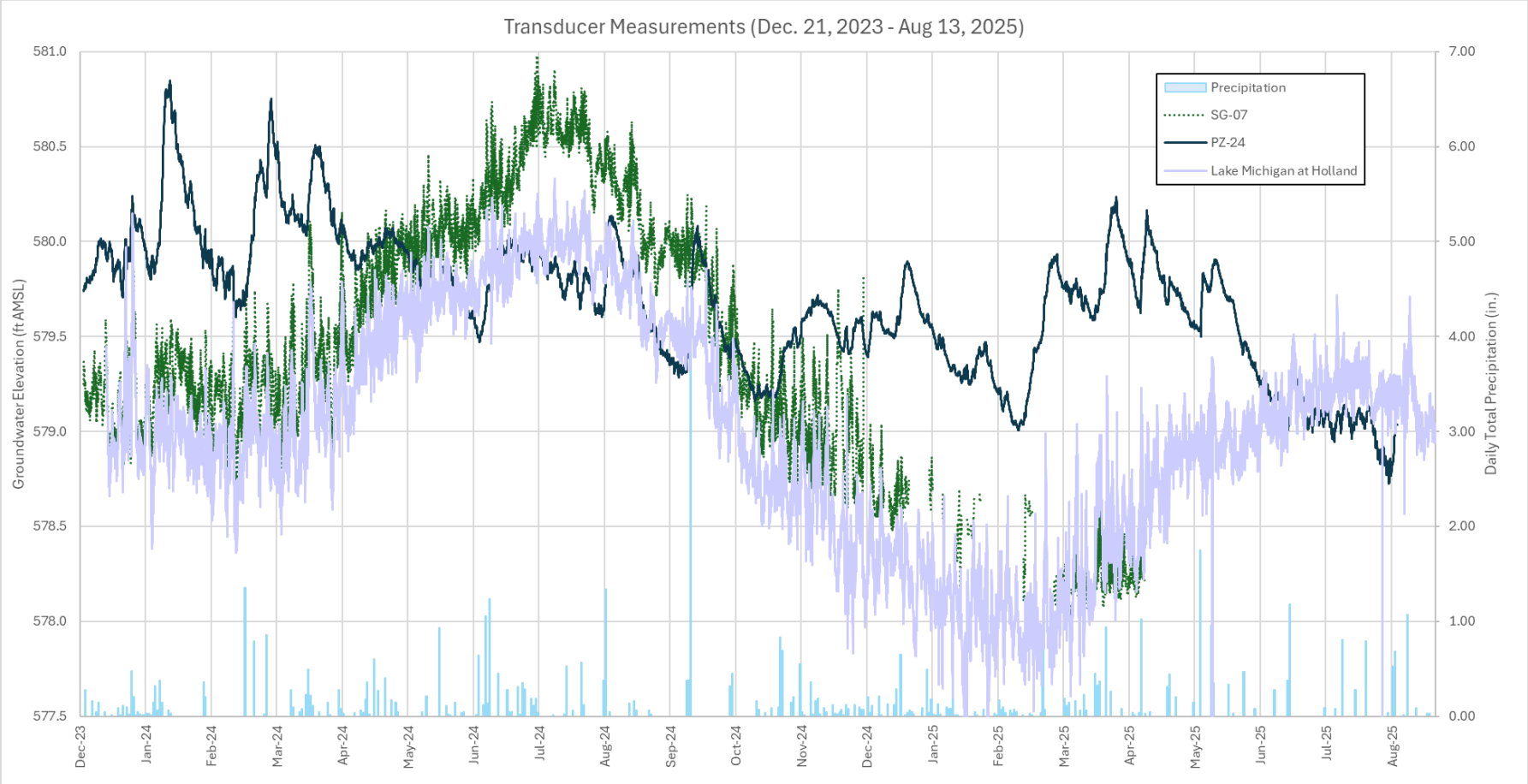


Figure 9 | Transducer Measurement Graph SG-07 and PZ-24

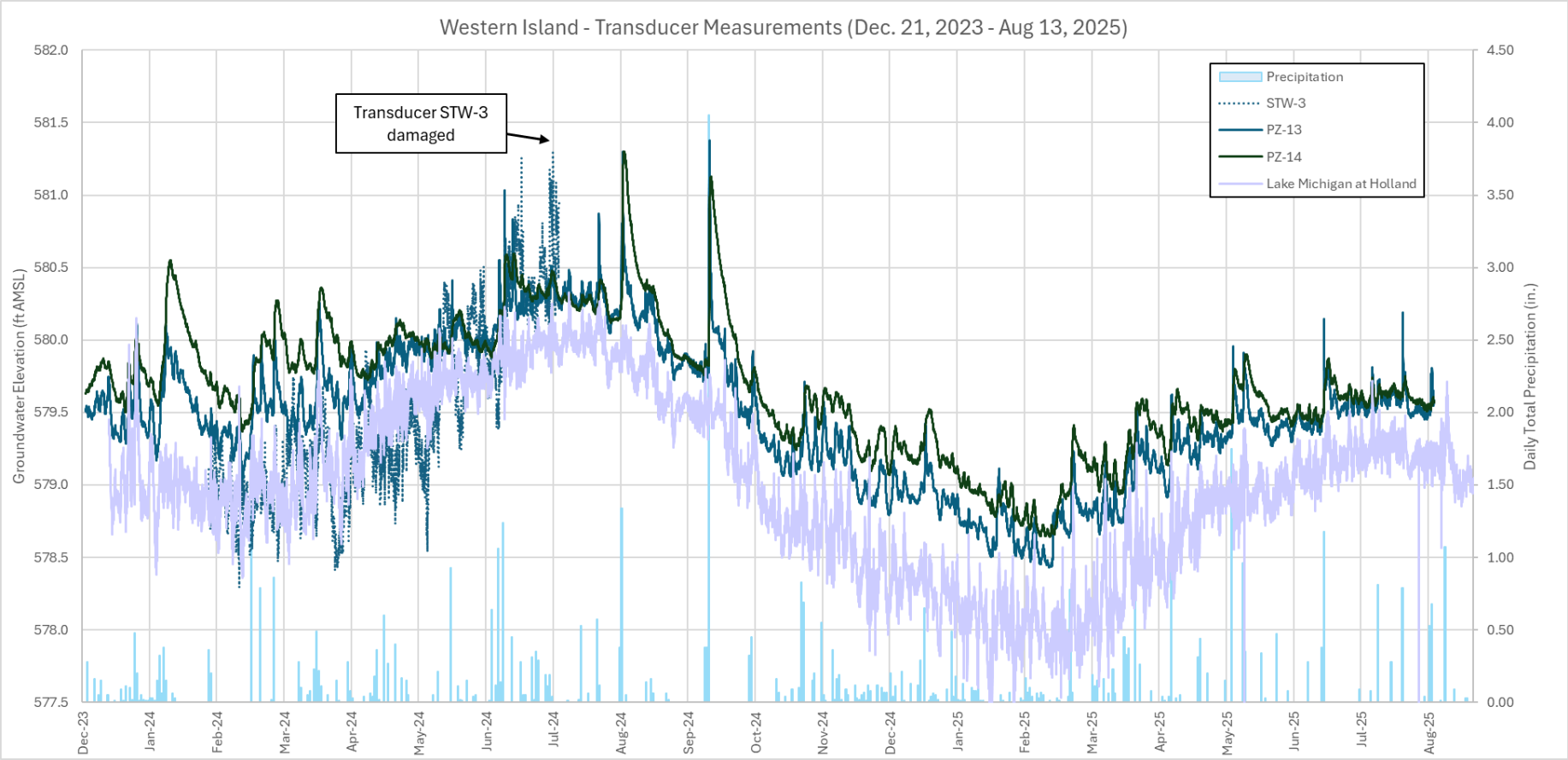


Figure 9 | Transducer Measurement Graph STW-3, PZ-13, and PZ-14

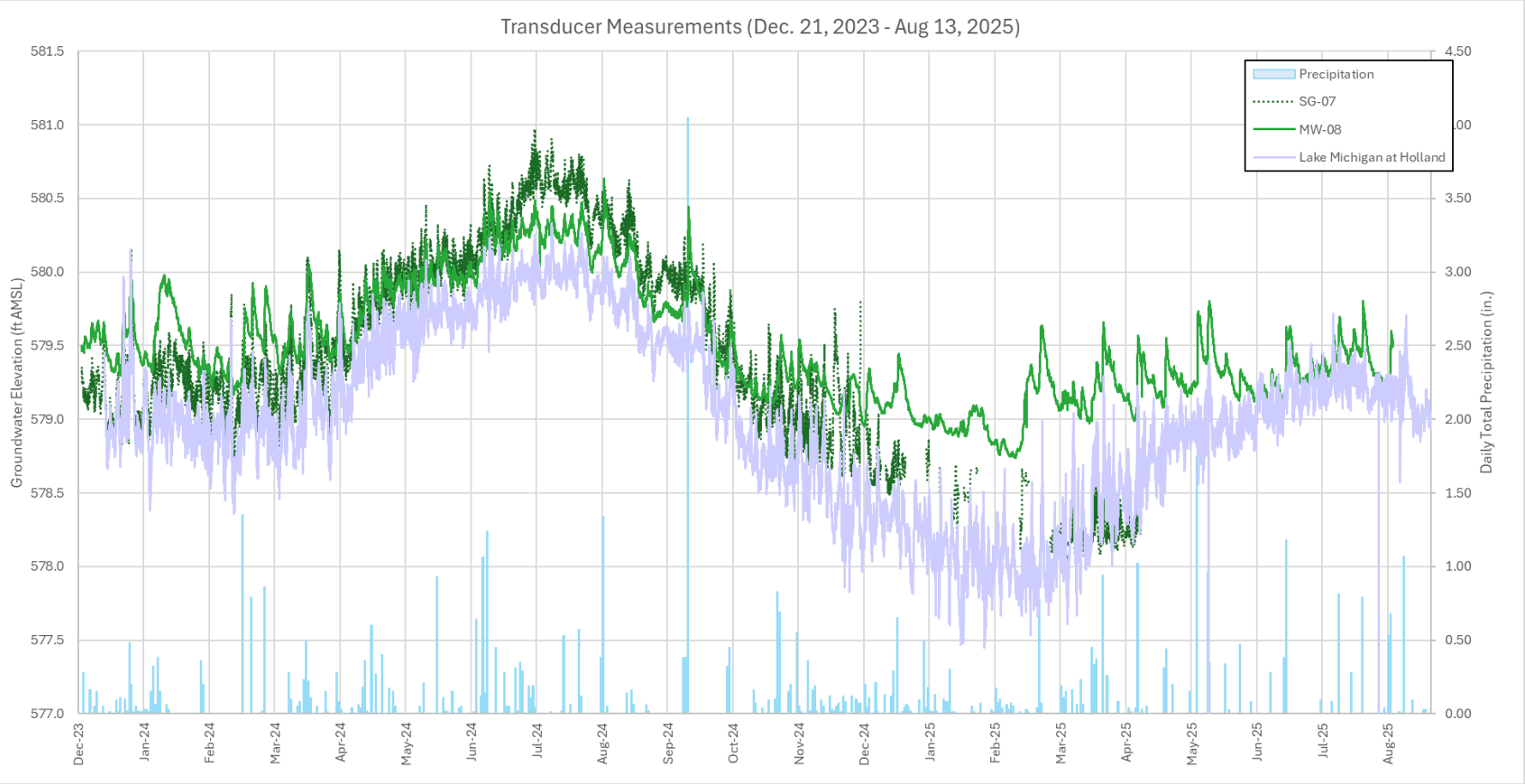


Figure 10 | Transducer Measurement Graph SG-07 and MW-08



4.2 Water Quality

In August 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 (GPS)

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


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)
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 August 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. The wells with SSLs over GPS following the August 2025 sample event are consistent with previous well and constituent observations.

Table 7. August 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	0.030	0.010
	Boron	mg/L	5.2	4.0
MW-10	Boron	mg/L	14	4.0
	Chloride (as Cl)	mg/L	220	120
	Fluoride	mg/L	4.6	2.0
	Lithium	mg/L	0.83	0.10

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

Well	Constituent*	Unit	95% LCL	State GPS
	Sulfate (as SO ₄)	mg/L	430	250
	Total Dissolved Solids	mg/L	1800	950
MW-18	Arsenic	mg/L	0.024	0.010
	Calcium	mg/L	310	250
	Fluoride	mg/L	3.6	2.0
	Sulfate (as SO ₄)	mg/L	720	250
	Total Dissolved Solids	mg/L	1300	950
MW-19	Calcium	mg/L	440	250
	Sulfate (as SO ₄)	mg/L	910	250
	Total Dissolved Solids	mg/L	1800	950
MW-30	Calcium	mg/L	440	250
	Lithium	mg/L	0.12	0.10
	Sulfate (as SO ₄)	mg/L	800	250
	Total Dissolved Solids	mg/L	2200	950
MW-31	Boron	mg/L	4.4	4.0
	Fluoride	mg/L	4.5	2.0
MW-32	Lithium	mg/L	0.12	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 has been 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 wells with SSLs over GPS following the August 2025 sample event are consistent with prior exceedances.

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

Well	Constituent*	Unit	95% LCL	State GPS
MW-01R	Boron	mg/L	93	4.0
	Fluoride	mg/L	10	2.0
	Lithium	mg/L	2.0	0.10
	Sulfate (as SO ₄)	mg/L	290	250
	Total Dissolved Solids	mg/L	2300	950
MW-02	Boron	mg/L	98	4.0
	Chloride (as Cl)	mg/L	140	120
	Fluoride	mg/L	9.4	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	130	120
	Sulfate (as SO ₄)	mg/L	260	250
	Total Dissolved Solids	mg/L	1800	950
MW-04	Calcium	mg/L	340	250
	Chloride (as Cl)	mg/L	130	120
	Sulfate (as SO ₄)	mg/L	580	250
	Total Dissolved Solids	mg/L	1800	950
MW-09	Boron	mg/L	5.5	4.0
	Calcium	mg/L	350	250
	Fluoride	mg/L	2.4	2.0
	Lithium	mg/L	0.29	0.10
	Sulfate (as SO ₄)	mg/L	390	250
	Total Dissolved Solids	mg/L	1300	950
MW-10	Boron	mg/L	14	4.0
	Chloride (as Cl)	mg/L	220	120
	Fluoride	mg/L	4.6	2.0
	Lithium	mg/L	0.83	0.10
	Sulfate (as SO ₄)	mg/L	430	250
	Total Dissolved Solids	mg/L	1800	950
MW-11	Boron	mg/L	4.4	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 has been 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

The surface water samples collected during the August 2025 sampling event were analyzed for the same list of analytes as the groundwater monitoring locations. For comparison purposes

only, the surface water sample results were compared to the GPS, even though groundwater standards are not applicable to surface water. The list of constituents that exceeded the GPS is provided in **Table 9**.

Table 9. Surface Water Sample Summary		
Surface Water Sample Location	Waterbody Monitored	Constituents that Exceeded GPS*
SG-02	Units 1/2 Impoundment	No sample – insufficient water
SG-04R	Units 1/2 Impoundment	No sample – insufficient water
SG-05	Internal Wetland South	No sample – insufficient water
SG-07	Internal Wetland North	None

*GPS criteria not for regulatory compliance, only used as a reference value for comparison to groundwater concentrations.

Based on the single sampling result, surface water collected at SG-07 did not have concentrations exceeding GPS values.

5.0 Summary

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

- One groundwater sampling event was conducted in the third quarter 2025, in August 2025.
- Groundwater flow measured in the third quarter 2025 in the vicinity of Units 1/2 Impoundment is generally radial on the western portion of the Island, 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 third 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 third quarter 2025. Transducers and housing at STW-2 and STW-3 were broken due to ice flow of the river and repairs have been proposed.
- 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 appears to be discharging to surface water (Grand River South Channel).
- The LCLs were re-calculated after the August 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 August 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.

A Remedial Investigation Site Specific Data Collection Work Plan was developed in 2025 to assist in the remediation alternatives feasibility assessment and remedy selection process (HDR 2025). 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 – 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 data collection plan began in the third quarter of 2025. Modifications to the current transducer network have been proposed to optimize data collection, including repairs to ice-damaged monitoring locations. Monitoring wells MW-01R and MW-04 will be replaced during the fourth quarter 2025. The fourth quarter 2025 assessment monitoring event was recently completed in October 2025.

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.

HDR, 2025. Former J.B. Sims Generating Station Remedial Investigation Data Collection Work Plan. July 8, 2025.

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: C4HH1 Well I.D.: MW-01R
 Sample I.D. (match bottle and COC form exactly): MW-01R
 Personnel: AB Date: 8/13/25
 Static Depth to Water (ft, btoc): 8.15 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25; 1350
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Field Duplicate Yes No Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: Total Purge: Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1314			START						
1318		7.71	3.18	3.63	0.23	18.7	67.3	8.35	
1322		7.70	3.10	1.83	0.14	18.7	43.5	8.38	
1326		7.70	3.05	1.07	0.11	18.6	27.1	8.40	
1330		7.70	3.00	1.26	0.09	18.6	16.1	8.40	
1334		7.70	3.05	1.23	0.08	18.5	8.7	8.40	
1338		7.71	3.07	1.27	0.07	18.5	-5.6	8.40	
1342		7.72	3.09	1.34	0.06	18.5	-15.3	8.41	
1346		7.72	3.08	1.14	0.07	18.4	-19.7	8.41	
1350		7.72	3.09	1.39	0.06	18.4	-23.4	8.41	

Flow Rate:
 Pump Controller Setting:
 General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-02
 Sample I.D. (match bottle and COC form exactly): MW-02
 Personnel: FDR Date: 8/13/25
 Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
 Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25 1300
 Sample Method: Peristaltic
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
 Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
 Time Completed: 1345 Total Purge: 7.25 Units: L

Field Measurements:

1145 START PUMP

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1150	0.5	7.21	3902	44.8	0.61	17.8	-134.3	16.68	125
1155	1.25	7.20	3883	38.9	0.37	17.6	-139.0	16.78	125
1200	1.75	7.20	3942	17.8	0.22	18.0	-150.0	16.81	100
1205	2.25	7.18	3938	5.10	0.16	16.5	-156.3	16.86	100
1210	2.75	7.18	3903	2.99	0.13	16.2	-156.8	16.91	100
1215	3.25	7.18	3864	6.67	0.11	15.8	-157.6	16.95	100
1220	3.75	7.19	3873	8.95	0.12	15.8	-158.2	16.99	100
1225	4.25	7.18	3878	11.7	0.10	16.0	-156.8	17.03	100
1230	4.75	7.18	3905	24.1	0.09	16.8	-158.5	17.06	100
1235	5.25	7.18	3921	11.6	0.12	16.1	-160.5	17.09	100
1240	5.75	7.18	3904	13.8	0.10	15.9	-163.2	17.15	100
1245	6.25	7.19	3866	14.7	0.07	15.3	-145.6	17.22	100
1250	6.75	7.18	3870	15.4	0.06	15.5	-150.9	17.25	100
1255	7.25	7.18	3860	15.5	0.04	15.4	-154.8	17.28	100

* Empty
YSI
flow cell

Flow Rate: 100 mL/min

Pump Controller Setting: 45-50%

General Comments:

Turbidity values stabilized within 10% after reaching/exceeding
<10 NTU

Site Name: GHHI Well I.D.: MW-03
Sample I.D. (match bottle and COC form exactly): MW-03
Personnel: FDR Date: 8/13/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25 1450
Sample Method: Peristaltic
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
Time Completed: 1515 Total Purge: 7 Units: 4

1415 START PUMP

Flow Rate: 200 ml/min
Pump Controller Setting: 50-55%
General Comments: Sulphur odor

Water Sample Collection Field Data Sheet

Site Name: CUHH1 Well I.D.: MW-04
 Sample I.D. (match bottle and COC form exactly): MW-04
 Personnel: AB Date: 8/11/25
 Static Depth to Water (ft, btoc): 11.80 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/11/25, 1810
 Sample Method: LF Peris
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: 1640 Total Purge: Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1508	START				0.48	18.4	68.6	12.11	
1512		7.22	2.53	0.02	0.48	18.4	68.6	12.11	
1516		7.23	2.53	0.02	0.36	18.3	57.7	12.18	
1520		7.23	2.55	0.02	0.29	18.0	51.8	12.35	
1524		7.24	2.60	0.02	0.35	17.9	45.6	12.40	
1528		7.24	2.60	0.02	0.25	17.6	34.4	12.45	
1532		7.24	2.61	0.02	0.30	17.7	23.2	12.48	
1536		7.24	2.61	0.02	0.25	17.8	12.0	12.51	
1540		7.24	2.63	0.02	0.24	17.9	-5.7	12.52	
1544		7.25	2.63	0.02	0.27	18.0	-19.5	12.52	
1548		7.25	2.62	0.02	0.25	17.9	-32.2	12.52	
1552		7.24	2.62	0.02	0.25	17.5	-43.8	12.52	
1556		7.25	2.61	0.02	0.25	17.7	-56.0	12.52	
1600		7.25	2.61	0.02	0.24	17.7	-65.2	12.52	
1604		7.25	2.60	0.02	0.24	17.7	-69.9	12.52	
1608		7.24	2.60	0.02	0.25	17.6	-75.5	12.52	

Flow Rate: ~250/min
 Pump Controller Setting: 45%
 General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well I.D.: MW-06
 Sample I.D. (match bottle and COC form exactly): MW-06
 Personnel: AB Date: 8/14/25
 Static Depth to Water (ft, btoc): 10.88 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/14/25 1022
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Field Duplicate Yes No Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: Total Purge: Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
0954				START					
0958		7.33	2.40	1.97	0.26	15.6	75.6	11.06	ORP = 98.1
1002		7.38	2.26	1.58	0.15	16.2	90.7	11.08	
1006		7.41	2.14	1.90	0.17	16.4	83.9	11.08	
1010		7.42	2.09	1.35	0.15	16.6	79.2	11.08	
1014		7.41	2.08	1.81	0.12	16.6	76.8	11.08	
1018		7.39	2.07	2.23	0.13	16.6	73.5	11.08	
1022		7.40	2.07	1.93	0.12	16.6	70.2	11.08	

Flow Rate: ~ 250 mL/min
 Pump Controller Setting: 45%
 General Comments:

Site Name: GHHI Well I.D.: MW-07
Sample I.D. (match bottle and COC form exactly): MW-07
Personnel: FDR Date: 8/13/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25 0855
Sample Method: Peristaltic
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
Time Completed: 0910 Total Purge: 12 Units: 2

0820 START PUMP

Flow Rate: 400 mL/min
Pump Controller Setting: 75%
General Comments:

Site Name: GHHI Well I.D.: MW-08
Sample I.D. (match bottle and COC form exactly): MW-08
Personnel: FDR Date: 8/14/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/14/25 0955
Sample Method: Peristaltic
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
Time Completed: 1015 Total Purge: 7.5 Units: L

0920 START PUMP

Flow Rate: 250 mL/min
Pump Controller Setting: 55-60%
General Comments: _____

General Comments:
Haul trucks kicking up dust on nearby road during sample collection

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-09
 Sample I.D. (match bottle and COC form exactly): MW-09
 Personnel: FDR Date: 8/13/25
 Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
 Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25 1105
 Sample Method: Peristaltic
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.: _____
 Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.: _____
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
 Time Completed: 1125 Total Purge: 6.5 Units: L

Field Measurements:

1030 START PUMP

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1035	1.25	7.15	2027	16.8	0.31	15.9	-129.5	10.61	250
1040	2.5	7.15	2014	3.20	0.25	15.8	-132.7	10.69	250
1045	3.5	7.15	2024	2.05	0.19	15.8	-135.8	10.74	200
1050	4.5	7.15	2030	0.41	0.19	15.9	-137.2	10.75	200
1055	5.5	7.15	2025	1.16	0.14	15.9	-138.4	10.76	200
1100	6.5	7.15	2024	1.41	0.14	15.8	-138.9	10.77	200

Flow Rate: 200 mL/min
 Pump Controller Setting: 50%
 General Comments: _____

Water Sample Collection Field Data Sheet

Site Name: CHHI Well I.D.: MW-10
 Sample I.D. (match bottle and COC form exactly): MW-10
 Personnel: AB Date: 8/14/25
 Static Depth to Water (ft, btoc): 7.02 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/14/25; 0740
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Field Duplicate Yes No Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: Total Purge: Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
0656			START						
0700		7.18	6.23	0.93	0.57	15.6	130.0	7.25	
0704		7.12	5.40	0.58	0.30	16.9	114.4	7.29	
0708		7.15	5.08	4.29	0.22	17.4	105.0	7.29	
0712		7.20	4.74	2.36	0.16	17.4	98.8	7.29	
0716		7.26	4.47	2.32	0.15	17.4	93.4	7.29	
0720		7.34	4.31	1.06	0.12	17.4	89.0	7.29	
0724		7.40	4.17	0.48	0.10	17.3	85.3	7.29	
0728		7.47	3.98	0.43	0.10	17.3	80.3	7.29	
0732		7.50	3.88	0.31	0.10	17.3	76.6	7.29	
0736		7.52	3.81	0.34	0.10	17.3	73.6	7.29	
0740		7.53	3.79	0.36	0.10	17.3	72.1	7.29	

Flow Rate:
 Pump Controller Setting:
 General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well I.D.: MW-11
 Sample I.D. (match bottle and COC form exactly): MW-11
 Personnel: AB Date: 8/14/25
 Static Depth to Water (ft, btoc): 15.53 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/14/25, 918
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: Total Purge: Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μS/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
838	_____	_____	_____	60.0	_____	_____	_____	_____	_____
842	_____	_____	_____	_____	_____	_____	_____	_____	_____
846	_____	_____	_____	_____	_____	_____	_____	_____	_____
850	_____	_____	_____	START	_____	_____	_____	_____	_____
854	_____	7.16	2.11	28.2	2.47	15.2	61.7	15.69	_____
858	_____	7.17	2.09	24.1	0.51	15.1	62.6	15.71	_____
902	_____	7.18	2.05	15.5	0.27	15.1	62.6	15.73	_____
906	_____	7.18	2.02	10.5	0.20	15.1	62.2	15.73	_____
910	_____	7.19	1.97	7.06	0.15	15.0	61.7	15.73	_____
914	_____	7.20	1.95	6.07	0.16	15.0	61.1	15.73	_____
918	_____	7.20	1.94	3.11	0.14	15.0	60.7	15.73	_____

Flow Rate: ~ 250 mL/min

Pump Controller Setting: 45%

General Comments:

replace tubing start @ 850

Site Name: GHHI Well I.D.: MW-12
Sample I.D. (match bottle and COC form exactly): MW-12
Personnel: FDR Date: 8/13/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25 1615
Sample Method: Peristaltic
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
Time Completed: 1630 Total Purge: 9 Units: 6

1540 START PUMP

Flow Rate: 300 mL/min
Pump Controller Setting: 60-65%
General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-13

Sample I.D. (match bottle and COC form exactly): MW-13

Personnel: AB Date: 8/13/25

Static Depth to Water (ft, btoc): 638 Well Total Depth (ft, btoc): ~~1241~~

Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25, 1202

Sample Method: LF Pers

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

Sample QC: Field Duplicate Yes ☐ No ☒ Duplicate Sample I.D.: _____

Sample QC: Equipment Blank Yes ☐ No ☒ Equip. Blank Sample I.D.:

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubin

Time Completed: _____ Total Purge: _____ Units: 1

Field Measurements:

[illegible]

Flow Rate: $\sim 250 \text{ mL/min}$

Pump Controller Setting: 457

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well I.D.: MW-16
 Sample I.D. (match bottle and COC form exactly): MW-16
 Personnel: AB Date: 8/13/2025
 Static Depth to Water (ft, btoc): 5.44 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/13/2025; 1044
 Sample Method: LF Per.
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: Total Purge: Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
0509 0956				START					
1000		6.80	1.27	11.2	0.33	21.0	70.4	6.64	
1004		6.80	1.27	6.98	0.23	21.2	62.8	6.64	
1008		6.79	1.29	5.88	0.18	21.1	55.5	6.64	
1012		6.79	1.31	8.03	0.15	21.0	46.6	6.64	
1016		6.79	1.31	1.19	0.14	21.0	40.2	6.65	
1020		6.78	1.32	1.42	0.13	21.0	31.3	6.65	
1024		6.78	1.32	1.47	0.13	20.9	25.6	6.65	
1028		6.78	1.33	2.12	0.12	20.9	18.4	6.66	
1032		6.77	1.33	1.63	0.11	20.8	6.3	6.66	
1036		6.77	1.33	2.21	0.10	20.9	-1.7	6.66	
1040		6.77	1.34	1.29	0.09	20.8	-4.3	6.67	DO = 0.09
1044		6.77	1.34	0.02	0.09	20.8	-7.7	6.67	

Flow Rate: ~250 mL/min

Pump Controller Setting: 45%

General Comments:

Site Name: GHHI Well I.D.: MW-17 (P2-17)
Sample I.D. (match bottle and COC form exactly): MW-17
Personnel: FDR Date: 8/12/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/12/25 1115
Sample Method: Peristaltic
Water level meter, pump, and tubing decontaminated prior: ☒ Yes ☐ No
Sample QC: Field Duplicate Yes ☒ No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes ☒ No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
Time Completed: 1200 Total Purge: 12 Units: 2

1040 START pump

[illegible]

Flow Rate: 400 mL/min

Pump Controller Setting: 75%

General Comments:

General Comments:
Standby for rain delay from 1120-1145

Site Name: GHHI Well I.D.: MW-18
Sample I.D. (match bottle and COC form exactly): MW-18
Personnel: FDR Date: 8/12/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/12/25 1250
Sample Method: Peristaltic
Water level meter, pump, and tubing decontaminated prior: (Yes) No
Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
Time Completed: 1305 Total Purge: 6 Units: 2

1215 START PUMP

Flow Rate: 2.00 mL/min
Pump Controller Setting: 55-60%
General Comments:

Site Name: GHHI Well I.D.: MW-19
Sample I.D. (match bottle and COC form exactly): MW-19
Personnel: FDR Date: 8/12/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/12/25 1405
Sample Method: Peristaltic
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
Time Completed: 1420 Total Purge: 9 Units: 6

1330 START PUMP

Flow Rate: 300 mL/min
Pump Controller Setting: 75%
General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-20
 Sample I.D. (match bottle and COC form exactly): MW-20
 Personnel: FDR Date: 8/13/25
 Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
 Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25 0955
 Sample Method: Peristaltic
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
 Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
 Time Completed: 1010 Total Purge: 9 Units: L

Field Measurements:

0920 START PUMP

Time (24-hour)	Amount Purged (L)	pH	COND. (μS/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
0925	1.5	7.30	983	6.06	0.60	17.9	-151.3	6.18	300
0930	3.0	7.30	975	2.84	0.32	17.9	-157.4	6.18	300
0935	4.5	7.30	969	5.45	0.20	17.9	-159.9	6.18	300
0940	6.0	7.31	968	0.57	0.15	17.8	-163.1	6.18	300
0945	7.5	7.31	967	2.52	0.13	17.8	-163.8	6.18	300
0950	9.0	7.31	966	2.03	0.13	17.8	-165.2	6.18	300

Flow Rate: 300 mL/min
 Pump Controller Setting: 60-65%
 General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well I.D.: MW-27
 Sample I.D. (match bottle and COC form exactly): MW-27
 Personnel: AB Date: 8/12/2025
 Static Depth to Water (ft, btoc): 5.90 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/12/2025, 1532
 Sample Method: LF Per
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: Total Purge: Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1500		START							
1504	1	6.87	3.47	8.35	0.19	19.1	31.3	6.39	
1508		6.86	3.44	7.32	0.22	19.9	12.1	6.41	
1512		6.85	3.40	7.20	0.21	20.4	-5.4	6.42	
1516		6.84	3.38	8.98	0.19	20.4	-20.6	6.44	
1520		6.83	3.37	3.80	0.19	20.4	-35.7	6.44	
1524		6.83	3.36	2.20	0.18	20.4	-43.9	6.44	
1528		6.83	3.36	2.11	0.17	20.4	-48.9	6.44	
1532		6.82	3.36	1.72	0.18	20.3	-53.0	6.44	

Flow Rate: ~250 mL/min

Pump Controller Setting: 45m

General Comments:

Site Name: GHHI Well I.D.: MW-28 (PZ-28)

Sample I.D. (match bottle and COC form exactly): MW-28

Personnel: FDR Date: 8/14/25

Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____

Date/Time Sample Collected (match bottle and COC form exactly): 8/14/25 1110

Sample Method: Peristaltic

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

Sample QC: Field Duplicate Yes ☐ No ☒ Duplicate Sample I.D.: _____

Sample QC: Equipment Blank Yes ☐ No ☒ Equip. Blank Sample I.D.: _____

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1130 Total Purge: _____ Units: 6

1035 START PUMP

Flow Rate: 200 mL/min
Pump Controller Setting: 60-65%
General Comments:

General Comments:
Haul trucks kicking up dust on nearby road during sample collection

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-30
 Sample I.D. (match bottle and COC form exactly): MW-30
 Personnel: F. Davis Ray Date: 8/11/25
 Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
 Date/Time Sample Collected (match bottle and COC form exactly): 8/11/25 1420
 Sample Method: Peristaltic
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.: _____
 Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.: _____
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
 Time Completed: 1440 Total Purge: 9 Units: L

Field Measurements:

1330 START Pump

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1335	1.0	6.87	4651	0.02	0.18	19.4	-127.9	6.71	200
1340	2.0	6.91	4581	0.02	0.17	18.8	-143.5	6.72	200
1345	3.0	6.93	4552	0.02	0.34	18.6	-150.8	6.73	200
1350	4.0	6.94	4488	0.02	0.17	18.5	-157.7	6.74	200
1355	5.0	6.94	4460	0.02	0.13	18.4	-167.5	6.75	200
1400	6.0	6.95	4458	0.02	0.11	18.4	-177.1	6.75	200
1405	7.0	6.95	4429	0.02	0.10	18.2	-183.9	6.76	200
1410	8.0	6.96	4425	0.02	0.10	18.3	-188.6	6.76	200
1415	9.0	6.96	4412	0.02	0.10	18.3	-192.5	6.77	200

Flow Rate: 200 mL/min
 Pump Controller Setting: 50%

General Comments:

Sulphur odor. Nearby haul trucks kicking up dust while sampling. Possible acid leak from radium bottle after collecting sample (slightly damp exterior - imperfect seal on cap?)

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-31 (P2-31)

Sample I.D. (match bottle and COC form exactly): MW-31

Personnel: F. Davis Ray Date: 8/11/25

Static Depth to Water (ft, btoc): 7.43 Well Total Depth (ft, btoc): _____

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/25 1000 (TSS/TDS, TM, LLH)

Sample Method: Peristaltic

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

Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____

Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: _____ Total Purge: 5 Units: L

Field Measurements:

1140 START PUMP

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1145	1.0	7.74	1383	2.30	1.62	21.9	-240.7	8.39	200
1150	2.0	7.71	1322	0.02	0.48	18.6	-262.6	8.82	200
1155	2.75	7.85	1297	0.02	2.01	19.2	-244.5	9.31	150
1200	No discharge - adjust pump / check tubing								-
1205	3.25	7.72	1343	0.02	0.95	18.8	-252.4	9.86	100
1210	3.75	7.99	1250	0.02	2.43	18.5	-218.8	10.37	100
1215	No discharge - stop pump (add more tubing)								-
1225	Restart pump								-
1230	4.25	7.71	1365	1.22	3.82	18.4	-255.4	10.78	100
1235	4.75	7.91	1296	13.1	3.98	19.2	-184.3	11.52	100
1240	Well purged dry								-
1000	-	7.80	1377	22.1	2.34	16.2	-123.2	7.45	
1015	Well purged dry								
1430	Grab additional recharge for radium								

Flow Rate: 100 mL/min

Pump Controller Setting: 35-40%

General Comments:

Sulphur odor. Well purged dry at lowest achievable pump rate on 8/11. Return 8/12 to grab recharge samples (TSS/TDS, Total Metals, LL Hg, radium).

Return on
8/12/25

Site Name: GHHI Well I.D.: MW-32
Sample I.D. (match bottle and COC form exactly): MW-32
Personnel: FDR Date: 8/11/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/11/25 1530
Sample Method: Peristaltic
Water level meter, pump, and tubing decontaminated prior: ☒ Yes ☐ No
Sample QC: Field Duplicate Yes ☒ No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes ☒ No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing
Time Completed: 1550 Total Purge: 6 Units: L

1455 START PUMP

Flow Rate: 200 ml/min
Pump Controller Setting: 50%
General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-33

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

Personnel: AB Date: 8/12/2025

Static Depth to Water (ft, btoc): 2.97 Well Total Depth (ft, btoc):

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/2025, 0804

Sample Method: LF Per:

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

Sample QC: Field Duplicate (Yes) No Duplicate Sample I.D.: MWT-33

Sample QC: Equipment Blank Yes ☐ No ☒ Equip. Blank Sample I.D.:

Well Purging Data (Fill in All Blanks):

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

Time Completed: _____ Total Purge: _____ Units: 1

Field Measurements:

[illegible]

Flow Rate: $\sim 250 \text{ mL/min}$

Pump Controller Setting: 45%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well I.D.: MW-34
 Sample I.D. (match bottle and COC form exactly): MW-34
 Personnel: AB Date: 8/12/2025
 Static Depth to Water (ft, btoc): 4.87 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/12/2025;
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: (Yes) No
 Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: Total Purge: Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μS/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1340	<u> </u>	<u>START</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
1344		6.67	1.94	13.8	0.77	16.6	31.9	4.98	
1348		6.67	1.97	11.3	0.42	16.6	7.4	4.98	
1352		6.67	1.98	10.7	0.31	16.5	-18.0	4.98	
1356		6.67	1.98	9.85	0.32	16.4	-31.8	4.98	
1400		6.65	1.98	7.49	0.29	16.4	-48.0	4.98	
1404		6.64	1.98	6.83	0.28	16.5	-62.1	4.98	
1408		6.65	1.99	5.52	0.28	16.4	-68.0	4.98	
1412		6.65	1.98	6.32	0.29	16.3	-71.8	4.98	

Flow Rate: ~250 mL/min
 Pump Controller Setting: 45°
 General Comments:
BTEX odor

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well I.D.: MW-36
 Sample I.D. (match bottle and COC form exactly): MW-36
 Personnel: AB Date: 8/12/2025
 Static Depth to Water (ft, btoc): 9.39 Well Total Depth (ft, btoc): 100
 Date/Time Sample Collected (match bottle and COC form exactly): 8/12/2025, 1200
 Sample Method: LF Per
 Water level meter, pump, and tubing decontaminated prior: Yes No
 Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: MWT-36
 Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
 Time Completed: _____ Total Purge: _____ Units: L

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1130			START						
1134		10.27	0.63	9.91	0.22	20.0	-22.3	9.44	
1138		9.61	0.68	6.10	0.13	20.4	-12.3	9.45	
1142		9.47	0.70	6.43	0.09	20.6	-13.2	9.45	
1146		9.19	0.74	2.68	0.09	20.5	-12.4	9.45	
1150		9.07	0.75	1.56	0.08	20.6	-13.5	9.45	
1154		9.00	0.77	2.69	0.07	20.8	-16.2	9.45	
1158		8.97	0.78	0.67	0.06	20.8	-18.2	9.45	

Flow Rate: ~750 mL/min

Pump Controller Setting: 452

General Comments:

Raining during purge

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well I.D.: MW-37

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

Personnel: AB Date: 8/12/2025

Static Depth to Water (ft, btoc): 9.79 Well Total Depth (ft, btoc): —

Date/Time Sample Collected (match bottle and COC form exactly): 8/12/2025, 1030

Sample Method: LF Deri

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

Sample QC: Field Duplicate Yes No Duplicate Sample I.D.:

Sample QC: Equipment Blank Yes ☐ No ☒ Equip. Blank Sample I.D.: _____

Well Purging Data (Fill in All Blanks):

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

Time Completed: _____ Total Purge: _____ Units: L

Field Measurements:

[illegible]

Flow Rate: $\sim 250 \text{ mL/min}$

Pump Controller Setting: 45%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: AGHH Well I.D.: MW-38
 Sample I.D. (match bottle and COC form exactly): MW-38
 Personnel: AB Date: 8/12/2025
 Static Depth to Water (ft, btoc): 10.67 Well Total Depth (ft, btoc):
 Date/Time Sample Collected (match bottle and COC form exactly): 8/12/25; 1100
 Sample Method: LF Peri
 Water level meter, pump, and tubing decontaminated prior: Yes ☐ No ☐
 Sample QC: Field Duplicate Yes ☐ No ☐ Duplicate Sample I.D.:
 Sample QC: Equipment Blank Yes ☐ No ☐ Equip. Blank Sample I.D.:
 Well Purging Data (Fill in All Blanks):
 Depth of Sample Collection (pump intake depth; ft, btoc):
 Time Completed: Total Purge: Units:

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (μ S/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
948		START						11.38	
942		8.93	0.79	4.50	0.55	20.2	39.6	12.01	
940		9.01	0.77	4.09	0.47	20.4	19.6	12.35	12.01
950		9.19	0.77	4.50	0.22	20.8	-1.7	12.35	
954		9.20	0.76	3.98	0.23	20.5	-14.3	12.90	
958		9.17	0.77	1.86	0.25	20.3	-11.7	13.10	
		DRY	ALLOW RECHARGE						
1100		8.33	0.64	2.01	0.27	23.2	12.0	10.84	
			got all but RAD ~ 0.5 L						

Flow Rate: ~ 100 mL/min

Pump Controller Setting: 252

General Comments:

Slowest pump will purge w/out shutting off

Site Name: CHH1 Well I.D.: MW-39
Sample I.D. (match bottle and COC form exactly): MW-39
Personnel: AB Date: 8/13/2025
Static Depth to Water (ft, btoc): 7.49 Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): 8/13/2025 900
Sample Method: LF Per
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): dedicated tubing
Time Completed: _____ Total Purge: _____ Units: L

[illegible]

Flow Rate: 250 mL/min
Pump Controller Setting: 450
General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: SCA-02

Sample I.D. (match bottle and COC form exactly): _____

Personnel: AB Date: 8/13/25

Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____

Date/Time Sample Collected (match bottle and COC form exactly): _____

Sample Method: Grab

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

Sample QC: Field Duplicate Yes ☐ No ☒ Duplicate Sample I.D.: _____

Sample QC: Equipment Blank Yes ☐ No ☒ Equip. Blank Sample I.D.: _____

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc): _____

Time Completed: _____ Total Purge: _____ Units: _____

Field Measurements:

[illegible]

Flow Rate: _____

Pump Controller Setting: _____

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CUHHI Well I.D.: SG-04R

Sample I.D. (match bottle and COC form exactly): SC-04R

Personnel: AB Date: 8/13/25

Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____

Date/Time Sample Collected (match bottle and COC form exactly): _____

Sample Method: Crab

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

Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.: _____

Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.:

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc): _____

Time Completed: _____ Total Purge: _____ Units: _____

Field Measurements:

[illegible]

Flow Rate: _____

Pump Controller Setting: _____

General Comments:

Site Name: CHH1 Well I.D.: SC-05
Sample I.D. (match bottle and COC form exactly): SC-05
Personnel: AB Date: 8/13/25
Static Depth to Water (ft, btoc): _____ Well Total Depth (ft, btoc): _____
Date/Time Sample Collected (match bottle and COC form exactly): _____
Sample Method: Carbo
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Field Duplicate Yes No Duplicate Sample I.D.: _____
Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.: _____
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): _____
Time Completed: _____ Total Purge: _____ Units: _____

[illegible]

Flow Rate: _____
Pump Controller Setting: _____
General Comments: _____

Site Name: CHH1 Well I.D.: SH-06

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

Personnel: AB Date: 8/13/25

Static Depth to Water (ft, btoc): Well Total Depth (ft, btoc):

Date/Time Sample Collected (match bottle and COC form exactly):

Sample Method: Grab

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

Sample QC: Field Duplicate Yes No Duplicate Sample I.D.:

Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.:

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc):

Time Completed: Total Purge: Units:

[illegible]

Flow Rate: _____
Pump Controller Setting: _____
General Comments: _____

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well I.D.: SC-07
Sample I.D. (match bottle and COC form exactly): SC-07
Personnel: AB/FDR Date: 8/13/25
Static Depth to Water (ft, btoc): Well Total Depth (ft, btoc):
Date/Time Sample Collected (match bottle and COC form exactly): 8/13/25, 1645
Sample Method: Grab
Water level meter, pump, and tubing decontaminated prior: Yes No
Sample QC: Field Duplicate Yes No Duplicate Sample I.D.:
Sample QC: Equipment Blank Yes No Equip. Blank Sample I.D.:
Well Purging Data (Fill in All Blanks):
Depth of Sample Collection (pump intake depth; ft, btoc): ~6" below surface
Time Completed: Total Purge: Units:

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. ($\mu\text{S}/\text{cm}$)	TURB. (NTU)	DO (mg/L)	TEMP ($^{\circ}\text{C}$)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1645		8.33	0.623	9.02	2.46	20.1	10.7	—	—
SW SAMPLE									

Flow Rate: _____
 Pump Controller Setting: _____
 General Comments: _____

Water Level Sweep - Measurement and Inspection Form

Site: Grand Haven Harbor Island

Sample Event: Q3 Sampling - Aug 25'

Field Personnel: AB/FDR

Date: 8/11/25

Well I.D. mw -	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
01R	8/11/25	Stickup	2"	Good		8.52		
02						16.06		
03						13.38		
04						11.80		
05						8.56		
06						11.29		
07						6.87		
08						6.08		
09						10.14		
10						7.21		
11						15.68		
12						8.05		
13						6.45		
14						6.78		
15						12.52		
16						5.57		
17						7.36		
18						7.88		
19						7.79		
20						6.44		
21								
22								
23						7.37		
24						8.44		
25						6.61		

Water Level Sweep - Measurement and Inspection Form

Site: Grand Haren Harbor Island

Sample Event: Q3 Sampling Aug 2025

Field Personnel: AB/FDR

Date: 8/11/25

Well I.D. MW-	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
26	8/11/25	Stickup	2"	Good		7.22		
27						6.40		
28						8.34		
29						3.86		
30						6.63		
31						7.43		
32						7.01		
33		Flush				3.00		
34						4.96		
35						9.29		
36		Stickup				9.49 AB		9.41
37						9.81		
38						10.70		
39						7.52		
40						6.62		
SG-01		Staff Gauge	N/A			DRY		
SG-02						DRY		
SG-03						DRY		
SG-04R						DRY		
SG-05						DRY		transducer = 1.41 btoc
SG-06						DRY		
SG-07						2.00		
STW-1		Stilling well	2"			40.50		measure estimated - blocked by veg
STW-2						12.97		
STW-3						6.70		est. no caving

STW-1 transducer @ 4.59 btoc.

Note that measurements recorded for STW-2 and STW-3 appear to have been swapped; STW-2 should be 6.70 ft, and STW-3 should be 12.97 ft

Appendix B

Data Validation Reports

Data Verification & Validation Report

Grand Haven-Harbor Island

Sampling Event (dates and purpose): Quarterly Assessment Monitoring

Data Package Number: 25H0691, 25H0692

Lab Report Date: 8/27/2025, 9/23/3035

Data Validator: Andrew Byks

Data Validation Completion Date: 9/26/2025

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-13	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
✓		Nature & Extent	MW-39	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	Metals	Mercury	Part 115 Metals	Alkalinity/ Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-04	GW	25H0691-01	8/11/2025	X	X	X	X	X	X	
MW-30	GW	25H0691-02	8/11/2025	X	X	X	X	X	X	
MW-32	GW	25H0691-03	8/11/2025	X	X	X	X	X	X	
LLHG-TB-08112025	AQ	25H0691-04	8/11/2025		X					
MW-17	GW	25H0691-05	8/12/2025	X	X	X	X	X	X	
MW-18	GW	25H0691-06	8/12/2025	X	X	X	X	X	X	
MW-19	GW	25H0691-07	8/12/2025	X	X	X	X	X	X	
MW-27	GW	25H0691-08	8/12/2025	X	X	X	X	X	X	
MW-31	GW	25H0691-09	8/12/2025	X	X	X	X	X	X	
MW-33	GW	25H0691-10	8/12/2025	X	X	X	X	X	X	
MWT-33	GW	25H0691-11	8/12/2025	X	X	X	X	X	X	
MW-34	GW	25H0691-12	8/12/2025	X	X	X	X	X	X	
MW-36	GW	25H0691-13	8/12/2025	X	X	X	X	X	X	
MWT-36	GW	25H0691-14	8/12/2025	X	X	X	X	X	X	
MW-37	GW	25H0691-15	8/12/2025	X	X	X	X	X	X	
MW-38	GW	25H0691-16	8/12/2025	X	X	X	X	X	X	
LLHG-TB-08122025	AQ	25H0691-17	8/12/2025		X					
MW-01R	GW	25H0691-18	8/13/2025	X	X	X	X	X	X	
MW-02	GW	25H0691-19	8/13/2025	X	X	X	X	X	X	
MW-03	GW	25H0691-20	8/13/2025	X	X	X	X	X	X	
MW-07	GW	25H0691-21	8/13/2025	X	X	X	X	X	X	
MW-09	GW	25H0691-22	8/13/2025	X	X	X	X	X	X	
MW-12	GW	25H0691-23	8/13/2025	X	X*	X	X	X	X	
MW-13	GW	25H0691-24	8/13/2025	X	X	X	X	X	X	
MW-16	GW	25H0691-25	8/13/2025	X	X	X	X	X	X	
MW-20	GW	25H0691-26	8/13/2025	X	X	X	X	X	X	
MW-39	GW	25H0691-27	8/13/2025	X	X	X	X	X	X	
SG-07	GW	25H0691-28	8/13/2025	X	X	X	X	X	X	
LLHG-TB-08132025	AQ	25H0691-29	8/13/2025		X					
MW-10	GW	25H0691-30	8/14/2025	X	X	X	X	X	X	
MW-11	GW	25H0691-31	8/14/2025	X	X	X	X	X	X	
MW-06	SW	25H0691-32	8/14/2025	X	X	X	X	X	X	
MW-08	SW	25H0691-33	8/14/2025	X	X	X	X	X	X	
MW-28	SW	25H0691-34	8/14/2025	X	X	X	X	X	X	
LLHG-TB-08142025	AQ	25H0691-35	8/14/2025		X					

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

Any planned sampling or analysis NOT completed? If yes, explain: Surface water samples were not collected at SG-02, SG-04R, or SG-05 sampling locations as the field conditions remained dry for the duration of the sampling event.

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		A dissolved metals sample was not collected at MW-02 with turbidity at 12.3 NTU.
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	X		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			
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 all 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			RLs as requested				RLs for the following were not met: Ba – 4 samples (results > RL) Bicarbonate alkalinity – 24 samples (results > RL) B – 3 samples (results > RL) Carbonate alkalinity – 1 sample (results > RL) Ca – 27 samples (results > RL) Chloride – 1 sample (result > RL) Fe – 1 sample (results > RL) Li – 1 sample (results > RL) Mg – 4 samples (results > RL) K – 2 samples (results > RL) Na – 6 samples (results > RL) SO ₄ – 8 samples (results > RL) Total alkalinity – 1 sample (results > RL) TDS – 31 samples (results > RL)
	X				X		
			MDLs<RLs	X			
			MDLs<GPS	X			
QC Validation							
Evaluate Accuracy							
Matrix Spike (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table		X		See Below.
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	-	-	-	

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Initial Calibration Blank	X		Laboratory-determined	-	-	-	
Continuing Calibration Blank	X		Laboratory-determined	-	-	-	
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 31 samples required qualification as estimated (J) due to analysis outside the EPA-established 24-hour hold time.

The matrix spikes for barium associated with samples MW-04 and MW-30 recovered above control criteria. Barium in sample MW-04 and MW-30 required qualification as estimated with high bias (J+).

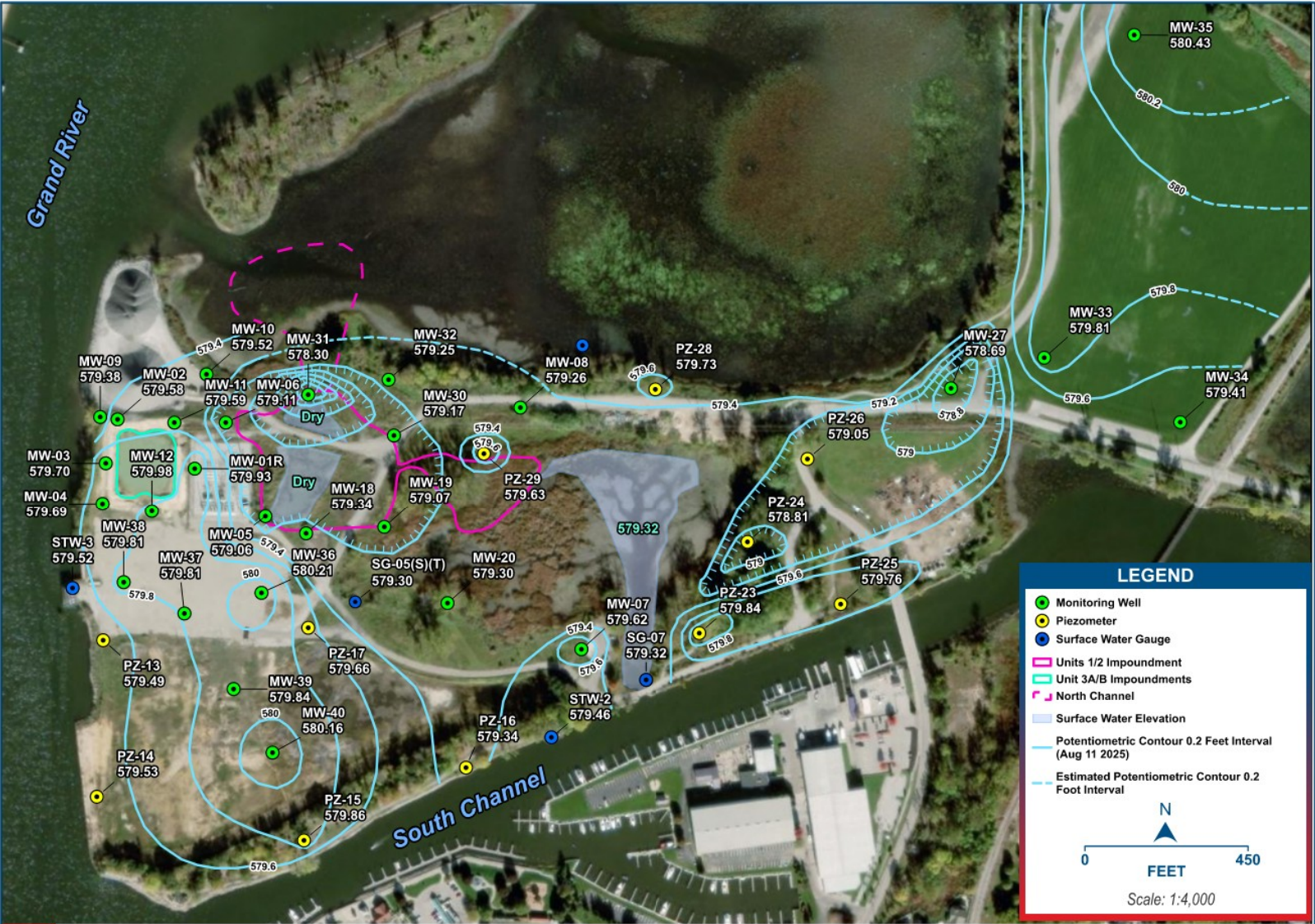
The RPD of zinc and Rad-226 between parent sample MW-33 and field duplicate MWT-33 were outside of control limits. Zinc required qualification as estimated with high bias (J+) in parent sample MW-33 and as estimated with low bias (J-) in field duplicate MWT-33. Rad-226 required qualification as estimated with low bias (J-, or UJ if non-detect) in parent sample MW-33 and as estimated with high bias (J+) in field duplicate MWT-33.

Carbonate alkalinity was not detected in parent sample MW-36, but was detected in field duplicate MWT-36. Carbonate alkalinity required qualification as estimated but not detected (UJ) in parent sample MW-36, and as estimated with high bias (J+) in field duplicate MWT-36.

The RPD of Rad-226 and Rad-228 between parent sample MW-36 and field duplicate MWT-36 were outside of control limits. Rad-226 required qualification as estimated with high bias (J+) in parent sample MW-36 and as estimated with low bias (J-) in field duplicate MWT-36. Rad-228 required qualification as estimated with low bias (J-) in parent sample MW-36 and as estimated with high bias (J+) in field duplicate MWT-36.

Appendix C

Groundwater Contour Map August 11, 2025 Measurements



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	4/20/2025	8/13/2025
			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 3A/B & 1/2															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	2.71	3.09
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	0.05	0.06
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	-203.4	-23.4
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	7.81	7.72
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	8.6	18.4
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	0.02	1.39
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	100 D	140 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	260 D	170 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	94 D	130 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	11 D	16 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	570 D	160 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	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	0.00018 J	0.00025
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	0.0013	0.0015
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	0.40	0.55
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	0.00017 J	0.00031
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	< 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	0.0017	0.0025
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	0.00098	0.0012
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	11 D	16 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	0.00038 J	0.00063
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	2.1 D	3.1
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	< 0.00000016 U	0.00000052
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	< 0.00025 U	0.00064 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	< 0.84 U	< 0.914 U	< 0.957 U
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	0.32	< 0.306 U	< 0.454 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	< 0.84 U	< 0.914 U	< 0.957 U
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	0.00045 J	0.00068
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	< 0.000075 U	< 0.000075 U
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	< 4.0 U	< 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	< 0.00020 U	0.00031
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	0.090	0.059
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	0.0018	0.0023
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	< 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	0.0021	0.0035
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	0.0012	0.028
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	1000	1500 D
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	< 0.16 U	< 0.31 UD
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	110 D	90
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	64 D	91 D
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	310 D	440 D
Total Alkalinity	mg/L	T	1100	1200	870	830	920	1100	1300 D	1400	1700 D	560 D	820 D	1500	1400	1300	1000	1500 D

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	4/19/2025	8/13/2025
			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 3A/B															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	3.03	3860
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	0.38	0.04
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	-100.8	-154.8
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	7.15	7.18
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	10.3	15.4
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	0.02	15.5
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	170 D	120 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	200 D	170 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	150 D	160 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	13 D	12 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	< 2.2 UD	1.3 JD
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	2000 D	2000 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	0.00026	0.00014 J
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	0.0059	0.0055
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	0.50	0.45
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	0.00032	0.00016 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	0.000078 J	< 0.000075 U
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	0.068	0.033
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	0.0095	0.0056
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	13 D	12 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	0.0050	0.0012 JD
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	2.0 D	1.5 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	0.0000054	0.0000023
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	0.013	0.0052
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	--	< 1.1 U	1.87
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	--	0.565	< 0.813 U
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	--	< 1.1 UG	1.35 G
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	0.0017	0.0012
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	< 0.000075 U	< 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	70	18
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	0.0037	0.0010
Iron	mg/L	T	23	22	24	30	27	27	24	20	18 D	31 D	25	22 D	19 D	21	28 D	22 D
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	0.042	0.023
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	< 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	0.0069	0.0027
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	0.0036	0.0016
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	1900	2000	1900	1800	1800	1900	460	2100	2300	1800 D	2000	2200	2200	2700	2100	2300 D
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	< 0.16 U	< 0.39 UD
Magnesium	mg/L	T	63	59	70	78	68	71	62	58 D	57 D	77 D	68	63 D	60 D	56	75 D	60 D
Potassium	mg/L	T	50	44	53	45	41	44	56 J	46 D	47 D	50 D	53	48 D	48 D	70	61 D	49 D
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	410 D	320 D
Total Alkalinity	mg/L	T	1900	2000	1900	1800	1800	1900	460	2100	2300	1800 D	2000	2200	2200	2700	2100	2300 D

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	4/21/2025	8/13/2025
			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 3A/B															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	2.6	2367
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	0.12	0.14
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	-178.7	-215
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	7.4	7.38
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	9.1	16.4
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	0.02	0.33
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	4.5 D	4.1
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	340 D	360 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	94 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	0.70 D	0.83 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	240 D	130 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	1700 D	1800 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	< 0.00010 U	< 0.00010 U
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	0.0013	0.00071
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	0.37	0.37
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	< 0.000052 U	0.000074 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	0.00011 J	< 0.00038 UD	< 0.000075 U	< 0.000075 U	< 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	0.0050	0.0040
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	0.00056	0.00070
Fluoride	mg/L	T	0.65	1.6	0.62	0.52	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	0.70 D	0.83 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	< 0.00010 U	< 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	0.030 D	0.033
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	0.00000077	0.00000039 J
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	< 0.00025 U	< 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-	0.92	--	1.34
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	< 0.16 U	--	0.758
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-	0.77	--	< 0.825 U
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	0.00041 J	0.00036 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	< 0.000075 U	< 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	< 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	< 0.00020 U	0.00022 J
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	1.2 D	0.098
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	0.0014	0.0013
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	< 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	0.0014	0.0015
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	< 0.0012 U	0.018
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	1800	690	1600	1200	1100	1100	1300 D	1300	1400 D	1300	1200	1300	1400	1500	1300	1500 D
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	< 0.16 U	< 0.31 UD
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	200 D	180 D
Potassium	mg/L	T	20	18	20	15	20	17	20	18 D	18 D	19 D	16	17	17 D	18	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	92 D	85
Total Alkalinity	mg/L	T	1800	690	1600	1200	1100	1100	1300 D	1300	1400 D	1300	1200	1300	1400	1500	1300	1500 D

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-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	4/21/2025	8/11/2025
			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 3A/B															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	2.33	2.6
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	0.16	0.25
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	-123.3	-75.5
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	7.39	7.24
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	8.1	17.6
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	0.02	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	3.7	4.0
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	250	370 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	21 D	91 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	2.3 D	1.6 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	360 D	760 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	1200 D	2100 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	0.00046	< 0.00010 U
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	0.0014	0.0010
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	0.025	0.15 J+
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	< 0.000052 U	< 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	< 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	0.0010	0.0038
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	0.00011 J	0.00030 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	2.3 D	1.6 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	0.00026 J	< 0.00050 UD
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	0.055	0.060
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	0.0000029	0.00000021 J
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	0.011	0.0011 J
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	< 0.56 U	< 0.614 U	1.75
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	0.37	< 0.457 U	< 0.482 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	< 0.56 U	< 0.614 U	1.3 G
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	0.0012	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	< 0.000075 U	< 0.00038 UD
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	< 4.0 U	9.0
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	0.00099	< 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	0.19	5.1
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	0.0028	0.013
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	< 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	0.0011 J	0.00084 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	0.0025	0.0015
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	800	1800	720	690	720	740	730	750	780	680 D	700	710	740	760	91	800 D
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	< 0.16 U	< 0.31 UD
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	36	120 D
Potassium	mg/L	T	21	20	20	18	21	24	26	23 D	24 D	21 D	23	24	23 J-	18	7.9	22
Sodium	mg/L	T	83	110	84	83	89	100	93 D	87 D	83 D	80 D	90	84	74 D	65 D	23	68 D
Total Alkalinity	mg/L	T	800	1800	720	690	720	740	730	750	780	680 D	700	710	740	760	91	800 D

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	4/20/2025	8/14/2025
			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															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	1.88	2.07
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	0.13	0.12
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	-193.1	70.2
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	7.38	7.4
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	9.4	16.6
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	0.54	1.93
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	6.9	11
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	210	230 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	29 D	57 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	1.2 D	1.5 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	15 D	5.1 JD
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	1200 D	1200 D
Appendix IV																		
Antimony	mg/L	T	0.000075 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	< 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	0.00051 J	0.00056
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	1.4 D	1.5 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	< 0.000052 U	< 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	< 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	0.00095	0.0014
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	0.00033 J	0.00045 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	1.2 D	1.5 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	< 0.00010 U	0.00023 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	0.12	0.19
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	0.00000070	0.00000053
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	< 0.00025 U	< 0.00025 U
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	1.02	2.13	1.47
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	< 0.28 U	< 0.326 U	< 0.412 U
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	0.77	1.8 G	1.09
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	0.00016 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	< 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	42	13
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	< 0.00020 U	0.00029
Iron	mg/L	T	15	17	16	26	19	18	18	14	19 D	31 D	26	17	12 D	4.6	14	6.2
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	< 0.00065 U	0.00083 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	< 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	< 0.00062 U	0.00070 J
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	0.0017	0.081
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	1100	1100	1000	1100	1100	990	1100 D	1100	1000 D	980 D	1100	1100	1000	1100	1100	1100 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	110	95	100	96	90	100	100 D	90 D	89 D	81 D	78	81	97 D	110 D	80	90
Potassium	mg/L	T	32	24	23	20	20	23	26	24 D	26 D	20 D	18	22	25 D	25	19	26
Sodium	mg/L	T	110	78	84	69	63	82	87	77 D	71 D	49 D	49	64	88 D	100 D	73	85
Total Alkalinity	mg/L	T	1100	1100	1000	1100	1100	990	1100 D	1100	1000 D	980 D	1100	1100	1000	1100	1100	1100 D

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	4/21/2025	8/13/2025
			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 3A/B & 1/2															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	0.899	1104
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	0.33	0.35
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	-56.9	-128.8
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	6.87	6.91
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	9.9	14.6
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	8.68	0.02
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	8.8	10
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	150	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	17 D	17 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	0.14	< 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	20 D	28 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	720 D	740 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	< 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	0.00020 J	0.00016 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	0.40	0.38
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	0.000062 J	< 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	< 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	< 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	0.00041	0.00031
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	0.0011	0.00097
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	0.14	< 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	< 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	0.0069	0.0066
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	< 0.00000016 U	0.00000024 J
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	< 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	1.44	1.38	1.49
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	0.53	0.681	0.61
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	0.91	< 0.778 U	< 1.05 UG
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	0.00011 J	0.00012 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	< 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	57	47
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	< 0.00020 U	< 0.00020 U
Iron	mg/L	T	16	13	13	15	14	19	17	14	18 D	15 D	15	17	17 D	19	21	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	< 0.00065 U	0.00016 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	< 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	0.00077 J	0.00075 J
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	< 0.0012 U	0.022
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	660	580	630	610	640	630	620	620	600 D	610 D	630	640	620	650	680	670 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	37	37	37	38	38	40	36	35 D	38 D	38 D	40	36	35 D	39	39	37
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	4.6	4.5
Sodium	mg/L	T	53	47	47	47	59	57	56	48 D	51 D	52 D	57	55	47 D	44	44	44
Total Alkalinity	mg/L	T	660	580	630	610	640	630	620	620	600 D	610 D	630	640	620	650	680	670 D

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	4/20/2025	8/14/2025
			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															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	0.91	1185
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	0.14	0.12
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	-125.6	-131.5
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	7.28	7.13
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	8.3	16.1
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	0.02	1.05
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	3.8	7.2
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	120	160 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	36 D	110 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	0.90 D	0.94 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	65 D	32 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	520 D	780 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	< 0.00010 U	< 0.00010 U
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	0.046	0.049
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	0.75	1.4 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	< 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	0.00011 J	< 0.000075 U	< 0.000075 U
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	0.00059	0.00043
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	0.00026 J	0.00076
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	0.90 D	0.94 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	0.00010 J+	< 0.00010 U
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	0.070	0.069
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	< 0.0000016 U	0.00000065
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	0.0029	< 0.00025 U
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	0.98	1.35	1.61
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	0.32	0.263	0.521
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	0.66	1.08	1.09
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	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	0.00013 J	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	T	62	55	49	42	36	31	30	20	43	46	36 D	18	31	44 D	45	18
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	0.00028 J+	0.00029
Iron	mg/L	T	32	30	21	22	18	18	15	13	22 D	22 D	19	14	15 D	21	19	10
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	0.0030	0.0047
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	< 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	< 0.00062 U	0.00029 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	0.0016	0.083
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	540	510	560	470	510	490	480	480	460 D	440 D	440	460	410	400	350	550 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	27	30	33	27	29	28	26	26 D	22 D	23 D	24	25	24 D	22	20	28
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	7.4	10
Sodium	mg/L	T	21	27	38	33	35	35	40	36 D	23 D	32 D	32	36	41 D	30	29	80
Total Alkalinity	mg/L	T	540	510	560	470	510	490	480	480	460 D	440 D	440	460	410	400	350	550 D

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	4/19/2025	8/13/2025
			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 3A/B & 1/2															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	1.618	2024
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	1.66	0.14
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	-72.1	-138.9
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	7.12	7.15
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	8.7	15.8
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	1.94	1.41
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	4.9	5.5
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	450	500 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	57 D	41 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	2.4 D	2.7 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	930 D	810 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	2000 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	< 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	0.0016	0.0022
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	0.10	0.12
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	< 0.00052 U	< 0.000052 U	< 0.000052 U	0.000057 J	< 0.000052 U	0.00015 J	< 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	< 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	0.0024	0.0021
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	0.00053	0.00024 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	2.4 D	2.7 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	< 0.00010 U	< 0.00010 U
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	0.31	0.31
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	< 0.00000016 U	0.00000032 J
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	0.025	0.028
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	< 0.45 U	< 0.778 U	< 0.782 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	< 0.24 U	< 0.218 U	< 0.383 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	< 0.45 U	< 0.778 U	< 0.782 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	0.00038 J	0.00027 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	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	T	45	51	52	50	56	52	46	48	39	47	50 D	57 D	47	33	64	64
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	< 0.00020 U	< 0.00020 U
Iron	mg/L	T	17	19	19	24	25	25	19	16	15 D	22 D	26	20	16 D	13	26	24
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	0.0044	0.0046
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	< 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	< 0.00062 U	0.00047 J
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	0.0045	0.0071
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	750	710	750	620	610	400	720	660	780 D	610 D	600	630	790	670	610	590 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	38	36	44	50	53	53	47	46 D	41 D	55 D	64	53	44 D	69	67	62
Potassium	mg/L	T	13	16	16	10 J	15	14	16	17	15 D	13 D	14	15	14 D	16	14	15
Sodium	mg/L	T	29	28	26	26	26	29	30	27 D	27 D	26 D	31	28	26 D	34	33	30
Total Alkalinity	mg/L	T	750	710	750	620	610	400	720	660	780 D	610 D	600	630	790	670	610	590 D

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	4/20/2025	8/14/2025
			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 3A/B & 1/2															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	2.73	3.79
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	0.12	0.1
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	-151.2	72.1
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	7.77	7.53
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	7	17.3
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	3.96	0.35
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	22 D	28 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	270 D	250 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	330 D	700 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	5.7 D	6.2 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	450 D	270 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	1800 D	2300 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	< 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	0.00074	0.0016
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	0.32	0.36
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	0.000069 J	0.00012 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	< 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	0.0048	0.0041
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	0.00027 J	0.00053
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	5.7 D	6.2 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	< 0.00010 U	< 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	0.83 D	0.99
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	< 0.00000016 U	0.00000037 J
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	0.0016	0.0022
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	< 0.83 U	< 1.12 UJ	2.06
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	0.62	< 0.29 UJ	0.495
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	< 0.83 U	< 1.12 UJ	1.57
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	0.00026 J	0.00034 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	< 0.000075 U	< 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	13	< 4.0 U
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	< 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	7.7 D	3.4
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	0.00079 J	0.00092 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	< 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	0.00089 J	0.0010 J	< 0.00062 U	< 0.00062 U	0.0012
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	< 0.0012 U	0.019
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	680	580	320	140	340	540	720	770	700 D	240 D	220	410	560	850	680	730 D
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	< 0.16 U	< 0.31 UD
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	100 D	76
Potassium	mg/L	T	44	33	31	40	42	36	46	48 D	45 D	41 D	60	63	62 D	42	38 D	50
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	220 D	440 D
Total Alkalinity	mg/L	T	680	580	320	140	340	540	720	770	700 D	240 D	220	410	560	850	680	730 D

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	4/20/2025	8/14/2025
			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 3A/B															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	0.979	1.94
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	0.2	0.14
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	-82.3	60.7
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	7.28	7.2
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	9.3	15
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	0.69	3.11
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	4.5	6.4
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	220	290 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	39 D	95 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	0.69 D	0.64 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	< 2.2 UD	5.4 JD
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	870 D	1100 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	< 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	0.0020	0.0022
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	0.57	0.68
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	< 0.000052 U	< 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	< 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	0.0010	0.0013
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	0.00027 J	0.00049 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	0.69 D	0.64 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	0.0012	0.0089
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	0.055	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	0.0011	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000088	0.0000027
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	0.00099 J	0.0022
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	1.35	--	1.1
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	0.61	--	< 0.391 U
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	0.74	--	0.832
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	0.00015 J	0.00023 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	< 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	16	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	< 0.00020 U	0.00077
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	7.6	10
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	0.0013	0.0019
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	< 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	< 0.00062 U	0.00068 J
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	0.0027	0.042
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	840	600	860	810	800	840	890	800	660 D	760 D	840	820	770	900	810	880 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	60	55	63	67	60	55	55	56 D	52 D	61 D	55	49	48 D	58	47	55
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	9.8	13
Sodium	mg/L	T	57	70	37	25	21	26	38	50 D	67 D	51 D	28	36	45 D	44	32	49
Total Alkalinity	mg/L	T	840	600	860	810	800	840	890	800	660 D	760 D	840	820	770	900	810	880 D

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	4/21/2025	8/13/2025
			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 3A/B															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	0.345	577
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	4.03	0.15
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	-21.7	-97.4
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	7.64	7.39
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	8.2	21.6
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	0.02	7.13
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	0.23	0.44
Calcium	mg/L	T	77	46	78	77	55	63	64	95 D	95 D	40 D	40	74	79 D	59	41	69
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	15 D	16 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	0.27 D	0.31 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	61 D	53 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	200 D	350 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	0.00068	0.00024 J
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	0.0016	0.0052
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	0.038	0.11
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	< 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	0.0015	0.011
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	0.00095	< 0.00020 U
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	0.00015 J	0.0013
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	0.27 D	0.31 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	0.00051 J	0.00026 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	0.0019 J	0.0055
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	0.00000083	0.0000010
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	0.0059	0.0083
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	< 0.86 U	0.589	1.12
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	< 0.3 U	< 0.306 U	< 0.325 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	< 0.86 U	< 0.487 U	0.943
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	0.0017	0.00028 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	< 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	< 4.0 U	6.0
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	0.0022	0.0018
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	0.047 J	0.40
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	0.0019	0.0062
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	< 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	0.0010 J	0.00096 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	0.0080	0.023
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	86	55	52	46	85	95	140	140	190 D	47	86	200	220	98	100	250 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	17	12	2.4	12	13	15	14	19	22 D	11 D	13	21	19 D	18	12	23
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	0.86	1.8
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	9.1	13
Total Alkalinity	mg/L	T	86	55	52	46	85	95	140	140	190 D	47	86	200	220	98	100	250 D

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:	MW-13	
	Compliance Phase:	AM/DM Round	
	Sample Date:	8/13/2025	
	Sample Type:	Field Sample	
	Unit:		
	Sample Matrix:	Groundwater	
Constituent	Unit	Fraction	
Field Parameters			
Conductivity	mS/cm	N	1.46
Dissolved Oxygen	mg/L	N	0.15
Oxidation Reduction Potential	mV	N	17.3
pH	su	N	7.45
Temperature	deg c	N	19.8
Turbidity	NTU	N	0.81
Appendix III			
Boron	mg/L	T	1.2
Calcium	mg/L	T	310 D
Chloride	mg/L	T	10 D
Fluoride	mg/L	T	0.73 D
Sulfate (as SO4)	mg/L	T	480 D
Total Dissolved Solids	mg/L	T	1100 D
Appendix IV			
Antimony	mg/L	T	< 0.00010 U
Arsenic	mg/L	T	0.00025 J
Barium	mg/L	T	0.088
Beryllium	mg/L	T	< 0.000052 U
Cadmium	mg/L	T	< 0.000075 U
Chromium, Total	mg/L	T	0.0015
Cobalt	mg/L	T	< 0.00010 U
Fluoride	mg/L	T	0.73 D
Lead	mg/L	T	< 0.00010 U
Lithium	mg/L	T	0.047
Mercury	mg/L	T	0.00000028 J
Molybdenum	mg/L	T	0.0028
Radium 226 and 228	pCi/L	T	< 0.796 U
Radium-226	pCi/L	T	< 0.353 U
Radium-228	pCi/L	T	< 0.796 U
Selenium	mg/L	T	0.00010 J
Thallium	mg/L	T	< 0.000075 U
Total Suspended Solids	mg/L	T	< 4.0 U
Michigan CCR Part 115			
Copper	mg/L	T	< 0.00020 U
Iron	mg/L	T	0.25
Nickel	mg/L	T	0.0024
Silver	mg/L	T	< 0.000050 U
Vanadium	mg/L	T	0.00064 J
Zinc	mg/L	T	0.0058
Additional Parameters			
Bicarbonate Alkalinity	mg/L	T	370 D
Carbonate Alkalinity	mg/L	T	< 0.31 UD
Magnesium	mg/L	T	16
Potassium	mg/L	T	11
Sodium	mg/L	T	25
Total Alkalinity	mg/L	T	370 D

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 analvte beind 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-16					
			AM/DM Round					
			4/8/2024	7/18/2024	10/17/2024	2/25/2025	4/21/2025	8/13/2025
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
			Unit 1/2					
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	Unit	Fraction						
Field Parameters								
Conductivity	mS/cm	N	1.1	1.36	1.36	1.36	1.25	1.34
Dissolved Oxygen	mg/L	N	0.04	0.18	0.19	0.06	0.17	0.09
Oxidation Reduction Potential	mV	N	-90.4	-15.6	-135.9	-51.2	-111.6	-7.7
pH	su	N	7.29	6.53	6.93	7.29	7.3	6.77
Temperature	deg c	N	7.1	17.6	18.2	4.5	8.1	20.8
Turbidity	NTU	N	0.02	0.02	0.02	0.59	0.02	0.02
Appendix III								
Boron	mg/L	T	0.22	0.43	0.39 D	0.27	0.29	0.50
Calcium	mg/L	T	190 D	250 D	230 D	280 D	230	260 D
Chloride	mg/L	T	14 D	21 D	20 D	18 D	17 D	23 D
Fluoride	mg/L	T	0.14 D	0.19 JD	< 0.055 UD	0.15 JD	0.18	0.13 JD
Sulfate (as SO4)	mg/L	T	60 D	< 2.2 UD	< 1.1 UD	90 D	140 D	8.7 D
Total Dissolved Solids	mg/L	T	680 D	830 D	790 D	910 D	850 D	790 D
Appendix IV								
Antimony	mg/L	T	< 0.00010 U	< 0.00010 U	0.00011 J	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	T	0.0052	0.0034	0.017	0.0012	0.0045	0.0035
Barium	mg/L	T	0.18	0.28	0.29	0.18	0.21	0.22
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 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	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	T	0.00064	0.00085	0.0013	0.00051	0.00062	0.0015
Cobalt	mg/L	T	0.00021 J	0.00017 J	0.00030 J	0.00039 J	0.00019 J	0.00018 J
Fluoride	mg/L	T	0.14 D	0.19 JD	< 0.055 UD	0.15 JD	0.18	0.13 JD
Lead	mg/L	T	< 0.00010 U	< 0.00010 U	0.00013 J	0.00019 J	< 0.00010 U	< 0.00010 U
Lithium	mg/L	T	0.016	0.025	0.024 D	0.020	0.020	0.027
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000043 J
Molybdenum	mg/L	T	< 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	1.01	< 0.623 U	2.31	< 0.62 U	1.09	1.84
Radium-226	pCi/L	T	< 0.199 U	0.296	0.371	< 0.24 U	< 0.33 U	< 0.574 U
Radium-228	pCi/L	T	0.902	< 0.623 U	1.94	< 0.62 U	0.836	1.6
Selenium	mg/L	T	0.00012 J	0.00011 J	0.00015 J	< 0.00010 U	0.00013 J	0.00015 J
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 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	17	< 4.0 U
Michigan CCR Part 115								
Copper	mg/L	T	0.00025	< 0.00020 U	< 0.00020 U	0.00031	< 0.00020 U	< 0.00020 U
Iron	mg/L	T	7.1	6.7	13 D	4.7	6.7	0.99
Nickel	mg/L	T	0.00065 J	< 0.00065 U	0.0010 J	0.0028	0.0017	0.00055 J
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 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	< 0.00062 U	0.0010 J
Zinc	mg/L	T	< 0.0012 U	< 0.0012 U	0.012	0.016	0.0012	0.013
Additional Parameters								
Bicarbonate Alkalinity	mg/L	T	550	710	760	720	620	710 D
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	23	27	26 D	33	28	26
Potassium	mg/L	T	3.9	5.1	5.2 D	5.2	5.0	5.6
Sodium	mg/L	T	17	23	21 D	25	21	25
Total Alkalinity	mg/L	T	550	710	760	720	620	710 D

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-17					
			AM/DM Round					
			4/8/2024	7/17/2024	10/16/2024	2/3/2025	4/20/2025	8/12/2025
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
			Unit 1/2					
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	Unit	Fraction						
Field Parameters								
Conductivity	mS/cm	N	1.12	0.95	1.03	1.02	0.655	1048
Dissolved Oxygen	mg/L	N	0.06	0.02	0.03	0.01	0.14	0.14
Oxidation Reduction Potential	mV	N	-157.2	-197.6	-194.5	-74.4	-128.6	-208.2
pH	su	N	7.88	7.31	7.52	7.69	7.75	7.54
Temperature	deg c	N	9.1	20.3	18.6	6.7	9	20.7
Turbidity	NTU	N	0.02	0.21	1.02	3.69	1.01	0.02
Appendix III								
Boron	mg/L	T	0.79	0.75	0.89 D	0.58	0.52	1.0
Calcium	mg/L	T	160 D	140 D	130 D	130 D	120	150 D
Chloride	mg/L	T	43 D	33 D	47 D	34 D	34 D	36 D
Fluoride	mg/L	T	0.48 D	0.56 D	0.67 D	0.38 D	0.54 D	0.65 D
Sulfate (as SO4)	mg/L	T	4.8 JD	33 D	7.3 D	27 D	4.4 JD	0.79 JD
Total Dissolved Solids	mg/L	T	620 D	620 D	580 D	600 D	560 D	620 D
Appendix IV								
Antimony	mg/L	T	< 0.00010 U	0.00016 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	T	0.0018	0.0026	0.0024	0.0012	0.0013	0.0023
Barium	mg/L	T	0.70	0.53	0.65	0.55	0.60	0.90 D
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000069 J	< 0.000052 U	< 0.000052 U
Cadmium	mg/L	T	< 0.000075 U	< 0.000075 U	< 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	0.00090	0.00059
Cobalt	mg/L	T	0.00033 J	0.00044 J	0.00052	0.00048 J	0.00030 J	0.00033 J
Fluoride	mg/L	T	0.48 D	0.56 D	0.67 D	0.38 D	0.54 D	0.65 D
Lead	mg/L	T	0.00019 J	0.00042 J	0.00017 J	0.00077	0.00045 J	0.00014 J
Lithium	mg/L	T	0.035	0.033	0.036 D	0.028	0.027	0.043
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000029 J
Molybdenum	mg/L	T	0.00079 J	0.0031	0.00077 J	0.00093 J	0.00078 J	0.00052 J
Radium 226 and 228	pCi/L	T	0.656	< 0.918 U	1.56	0.58	1.3	1.3
Radium-226	pCi/L	T	< 0.185 U	0.315	0.334	< 0.53 U	< 0.357 U	0.448
Radium-228	pCi/L	T	< 0.571 U	< 0.918 U	1.22	0.58	1.3 G	< 0.849 U
Selenium	mg/L	T	0.00014 J	0.00021 J	0.00013 J	0.00011 J	0.00021 J	0.00018 J
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	T	9.0	9.0	12	10	14	4.0
Michigan CCR Part 115								
Copper	mg/L	T	0.00088	0.0016	0.00049	0.0010	0.0011	0.00033
Iron	mg/L	T	6.6	3.5	3.8 D	4.1	4.8	4.7
Nickel	mg/L	T	0.0011 J	0.0020	0.0015	0.0011 J	0.0012	0.00092 J
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 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	0.00065 J	0.00060 J
Zinc	mg/L	T	0.0026	0.0059	0.027	0.044	0.0087	0.0029
Additional Parameters								
Bicarbonate Alkalinity	mg/L	T	530	460	500	480	500	550
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Magnesium	mg/L	T	30	24	24 D	24	24	27
Potassium	mg/L	T	15	16	16 D	12	12	17
Sodium	mg/L	T	59	39	56 D	49	47	56
Total Alkalinity	mg/L	T	530	460	500	480	500	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+ Same as J, and the reported concentration is potentially biased high.

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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-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	4/21/2025	8/12/2025
			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															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	1.49	1304
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	0.42	0.16
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	-86.7	-138.7
pH	su	N	7.05	7.02	7.2	7.12	7.19	7.16	7.16	7.25	7.16	7.27	7.18	7.31	7.17	7.18	7.27	7.31
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	7.3	18.7
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	2.18	0.02
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	3.7	4.2
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	270	250 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	19 D	26 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	3.3 D	4.7 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	770 D	570 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	1200 D	1100 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	0.00017 J	0.00010 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	0.027	0.036
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	0.013	0.021
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	< 0.000052 U	< 0.000052 U
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	0.00010 J	< 0.000075 U
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	0.00063	< 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	0.0019	0.0011
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	3.3 D	4.7 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	< 0.00010 U	0.00025 J
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	0.028	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	< 0.00000016 U	0.00000086
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	0.014	0.019
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	0.93	< 0.555 U	0.817
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	< 0.23 U	< 0.352 U	< 0.459 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	0.83	< 0.555 U	< 0.562 U
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	0.0011	0.00015 J
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	< 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	11	12
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	0.00047	0.00087
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	5.8	5.3
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	0.0056	0.0032
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	< 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	< 0.00062 U	< 0.00028 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	0.048	0.016
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	160	110	100	130	140	130	150	200	200 D	120	120	180	220	100	120	220
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	< 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	36	30
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	7.1	8.9
Sodium	mg/L	T	21	20	21	17	15	18	20	20	20 D	24 D	23	23	23 D	31	22	22
Total Alkalinity	mg/L	T	160	110	100	130	140	130	150	200	200 D	120	120	180	220	100	120	220

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:

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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-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	4/21/2025	8/12/2025
			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															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	1.162	1712
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	0.27	0.35
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	-19.3	-93.6
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	6.74	6.81
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	7.6	15.8
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	0.02	0.02
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	1.6	2.7
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	370	450 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	21 D	37 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	1.5 D	1.9 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	890 D	910 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	1600 D	1800 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	0.00019 J	0.00011 J
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	0.0037	0.0024
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	0.033	0.039
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	0.00012 J	0.000098 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	< 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	0.00027	0.00022 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	0.00092	0.00018 J
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	1.5 D	1.9 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	< 0.00010 U	< 0.00050 UD
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	0.073	0.088
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	< 0.00000016 U	0.00000026 J
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	0.019	0.0097
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	< 0.7 U	< 0.708 U	1.14
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	< 0.29 U	< 0.284 U	< 0.388 U
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	< 0.7 U	< 0.708 U	0.82
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	0.00015 J	< 0.00010 U
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	< 0.000075 U	< 0.00038 UD
Total Suspended Solids	mg/L	T	27	25	16	6.0	23	19	29	33	26	17	6.0	34	37	15 D	18	22
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	< 0.00020 U	0.00040
Iron	mg/L	T	15	18	16	13	12	13	16	15	24 D	20 D	17	21	21 D	17	14	14
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	0.0029	0.0033
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	< 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	0.00067 J	0.00055 J
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	0.0042	0.0017
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	330	340	310	280	240	260	340	330	270 D	290	270	300	260	280	280	300
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	< 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	31	39
Potassium	mg/L	T	18	22	16	20	16	16	15	17	16 D	15 D	14	14	14 D	15	13	15
Sodium	mg/L	T	48	40	44	37	38	38	36	31 D	37 D	33 D	30	29	30 D	32	25	32
Total Alkalinity	mg/L	T	330	340	310	280	240	260	340	330	270 D	290	270	300	260	280	280	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-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	4/21/2025	8/13/2025
			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															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	0.64	966
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	0.26	0.13
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	-113.7	-165.2
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	7.43	7.31
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	7.8	17.8
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	0.02	2.03
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	0.87	1.4
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	110	150 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	29 D	35 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	0.29 D	0.30 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	52 D	50 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	540 D	620 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	< 0.00010 U	< 0.00010 U
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	0.0011	0.0019
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	0.46	0.67
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	< 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	< 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	< 0.00020 U	< 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	0.00080	0.00091
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	0.29 D	0.30 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	0.0012	0.0022
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	0.034	0.062
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	0.0000051	0.0000053
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	0.0035	0.0040
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	--	0.847	0.486
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	--	< 0.326 U	< 0.306 U
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	--	0.746	< 0.479 U
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	< 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	< 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	29	41
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	0.00020 J	0.00025
Iron	mg/L	T	21	19	18	19	21	22	18	16	20 D	18 D	22	16	18 D	14	14	19
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	0.0063	0.0084
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	< 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	< 0.00062 U	< 0.00028 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	0.013	0.058
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	540	470	470	460	520	540	470	460	560 D	460	570	470	500	430	440	460 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	57	53	52	56	57	62	47	48 D	53 D	45 D	55	41	41 D	36	37	40
Potassium	mg/L	T	13	13	11	12	13	12	13	13	12 D	8.5 D	11	10	9.1 D	6.9	6.9	7.0
Sodium	mg/L	T	65	59	57	56	63	79	67	57 D	61 D	48 D	80	57	47 D	43	41	37
Total Alkalinity	mg/L	T	540	470	470	460	520	540	470	460	560 D	460	570	470	500	430	440	460 D

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-27															
			Background Monitoring							AM/DM Round								
			11/30/2022	1/5/2023	2/7/2023	3/13/2023	4/18/2023	5/22/2023	8/7/2023	10/23/2023	2/13/2024	4/8/2024	7/18/2024	10/17/2024	2/27/2025	4/21/2025	4/22/2025	8/12/2025
			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 3A/B & 1/2															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Field Parameters																		
Conductivity	mS/cm	N	2.46	2.01	1.651	1.047	1.04	1.65	2.57	2.99	1.65	1.06	2.79	3.47	2.32	0.955	--	3.36
Dissolved Oxygen	mg/L	N	1.35	0.17	0.24	0.93	0.07	0.19	0.23	0.05	1.64	0.12	0.03	0.24	1.5	0.29	--	0.18
Oxidation Reduction Potential	mV	N	-87.3	-137.6	-79.1	-134.3	-52.1	-80.9	-104.5	-191.3	-62.8	-140.2	-129.9	-80.3	155.8	-46.2	--	-53
pH	su	N	6.86	6.92	6.81	6.95	6.81	6.77	6.78	6.77	6.93	6.99	6.87	6.66	6.79	6.89	--	6.82
Temperature	deg c	N	8.7	6.7	5	4.5	7.2	11.7	20.8	15.2	5.6	7.5	19.6	16.9	4	7.6	--	20.3
Turbidity	NTU	N	0.02	0.73	1.33	0.02	4.08	3.32	8.15	9.71	3.01	2.31	7.9	9.44	6.08	1.77	--	1.72
Appendix III																		
Boron	mg/L	T	0.31	0.17	0.16	0.14	0.14	0.20	0.44	0.32 D	0.16 D	0.18	0.44	0.50 D	0.21	0.27	--	0.54
Calcium	mg/L	T	200	180	180	180	100	130	150 D	190 D	160 D	130 D	170 D	170 D	210 D	130	--	170 D
Chloride	mg/L	T	120	84	69	60	38	52	100 D	110 D	44 D	17 D	89 D	120 D	97 D	86 D	--	120 D
Fluoride	mg/L	T	0.37	0.29	0.31	0.41	0.42	0.35	0.41 D	0.43 D	0.40 D	0.71 D	0.48 D	0.23 D	0.25 D	0.44 D	--	0.58 D
Sulfate (as SO4)	mg/L	T	6.8	41	58	47	14	1.8 J	3.0 D	2.4 JD	72 D	41 D	2.3 JD	1.4 JD	40 D	27 D	--	1.0 JD
Total Dissolved Solids	mg/L	T	920	710	790	620	460	590	690 D	870 D	1300 D	560 D	890 D	910 D	900 D	640 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	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00010 J	0.00012 J	< 0.00010 U	--	< 0.00010 U
Arsenic	mg/L	T	0.00086	0.00070	0.00069	0.00069	0.00095	0.00096	0.0012	0.0011	0.00082	0.0012	0.0011	0.0012	0.00070	0.0011	--	0.0013
Barium	mg/L	T	0.21	0.17	0.16	0.12	0.074	0.15	0.25	0.31	0.16	0.10	0.28	0.32	0.25	0.14	--	0.31
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 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 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	0.018	0.016	0.0097	0.0099	0.0083	0.025	0.034	0.028	0.0090	0.0073	0.033	0.050	0.014	0.011	--	0.041
Cobalt	mg/L	T	0.00063	0.00056	0.00052	0.00043 J	0.00024 J	0.00063	0.00083	0.00075	0.00037 J	0.00016 J	0.00074	0.0011	0.00046 J	0.00035 J	--	0.00096
Fluoride	mg/L	T	0.37	0.29	0.31	0.41	0.42	0.35	0.41 D	0.43 D	0.40 D	0.71 D	0.48 D	0.23 D	0.25 D	0.44 D	--	0.58 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 U	< 0.0001 U	< 0.00010 U	< 0.00010 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	0.0093	0.0099	0.0050	0.0058	0.0099	0.0092	0.0058	0.0055	--	0.0093
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	--	< 0.00000016 U	0.00000057
Molybdenum	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00041 J	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.00026 J	< 0.00025 U	< 0.00025 U	--	< 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	1.76	< 0.857 U	< 0.774 U	1.25	0.876	< 1.24 U	--	1.07	--	2.24
Radium-226	pCi/L	T	0.367	0.23	< 0.127 U	< 0.197 U	< 0.171 U	< 0.325 U	0.477	0.464	0.22	0.549	0.429	0.34	--	< 0.559 U	--	0.545
Radium-228	pCi/L	T	< 0.679 U	< 0.639 UJ	< 0.729 U	< 0.889 U	1.03	1.47 J	1.28	< 0.857 U	< 0.774 U	< 0.85 U	< 0.709 U	< 1.24 UG	--	0.826	--	1.7
Selenium	mg/L	T	0.00023 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00016 J	0.00022 J	0.0002 J	0.00053	0.00014 J	0.00027 J	0.00032 J	0.00024 J	0.00020 J	--	0.00029 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 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	34	27	22	14	5.0	11	11	22	23	9.0	6.0	26	20	13	--	11
Michigan CCR Part 115																		
Copper	mg/L	T	0.00030	< 0.00020 U	0.0016	< 0.00020 U	0.00022 J	0.00032	0.00023 J	0.00024 J	< 0.00020 U	0.00039	< 0.00020 U	0.00022 J	< 0.00020 U	0.00037	--	0.00020 J
Iron	mg/L	T	13	11	11	8.3	5.5	7.6	8.0	11 D	9.9 D	7.7	8.4	8.1 D	11	6.4	--	8.1
Nickel	mg/L	T	0.00077 J	0.0010 J	0.0010 J	0.00077 J	< 0.00065 U	0.00087 J	0.00075 J	< 0.00065 U	0.00076 J	0.00073 J	< 0.00065 U	0.00094 J	0.00081 J	0.00089 J	--	0.00084 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	< 0.00005 U	< 0.000050 U	< 0.000050 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	0.00093 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.0018	0.0024	0.0010 J	0.0011 J	--	0.0020
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	0.012	< 0.0012 U	< 0.0012 U	--	0.0027
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	1200	880	800	590	480	770	1100	1400 D	790 D	520	1300	1700	1100	650	--	1500 D
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	< 0.31 UD	< 0.31 UD	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	--	< 0.31 UD
Magnesium	mg/L	T	45	45	47	44	26	31	35 D	40 D	55 D	39	45	44 D	52	39	--	45
Potassium	mg/L	T	7.6	7.3	6.2	5.8	4.1	6.5	12	11 D	4.9 D	3.5	9.8	11 D	8.0	5.1	--	12
Sodium	mg/L	T	92	68	59	61	41	52	80 D	82 D	59 D	41	72	82 D	99 D	69	--	90 D
Total Alkalinity	mg/L	T	1200	880	800	590	480	770	1100	1400 D	790 D	520	1300	1700	1100	650	--	1500 D

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-28					
			AM/DM Round					
			4/7/2024	7/18/2024	10/17/2024	2/27/2025	4/21/2025	8/14/2025
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
			Unit 1/2					
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	Unit	Fraction						
Field Parameters								
Conductivity	mS/cm	N	1.18	1.46	1.22	1.83	1.005	1561
Dissolved Oxygen	mg/L	N	0.08	0.01	0.17	0.16	0.29	0.07
Oxidation Reduction Potential	mV	N	-118.7	-158.8	-133.4	-32	-53.5	-121.5
pH	su	N	7.02	6.94	6.84	6.9	6.98	6.89
Temperature	deg c	N	8.1	16.8	16	6.3	7.4	18.3
Turbidity	NTU	N	3.17	4.11	0.02	6.58	1.57	3.78
Appendix III								
Boron	mg/L	T	2.2	6.1	3.8 D	2.7	2.0	5.6
Calcium	mg/L	T	170 D	160 D	180 D	230 D	160	210 D
Chloride	mg/L	T	18 D	67 D	170 D	240 D	180 D	170 D
Fluoride	mg/L	T	0.90 D	1.5 D	1.4 D	0.94 D	0.97 D	1.4 D
Sulfate (as SO4)	mg/L	T	11 D	< 2.2 UD	< 1.1 UD	41 D	57 D	0.67 JD
Total Dissolved Solids	mg/L	T	610 D	690 D	920 D	1100 D	900 D	920 D
Appendix IV								
Antimony	mg/L	T	0.00028	0.00016 J	0.00020 J	0.00073	0.00036	0.00018 J
Arsenic	mg/L	T	0.0011	0.0014	0.0019	0.0020	0.0014	0.0038
Barium	mg/L	T	0.34	0.70	0.76	0.75	0.42	0.75
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 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	0.000080 J	< 0.000075 U
Chromium, Total	mg/L	T	0.017	0.0092	0.015	0.0075	0.0078	0.0093
Cobalt	mg/L	T	0.00064	0.00046 J	0.00041 J	0.0020	0.0031	0.0013
Fluoride	mg/L	T	0.90 D	1.5 D	1.4 D	0.94 D	0.97 D	1.4 D
Lead	mg/L	T	0.0011	0.0013	0.00088	0.0052	0.0015	0.0041
Lithium	mg/L	T	0.050	0.15	0.12 D	0.084	0.054	0.13
Mercury	mg/L	T	0.00024	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000075	0.0000041
Molybdenum	mg/L	T	0.00087 J	0.00054 J	0.0020	0.0027	0.0020	0.0021
Radium 226 and 228	pCi/L	T	0.909	1.29	1.27	--	< 0.964 U	1.93
Radium-226	pCi/L	T	0.282	0.273	< 0.218 U	--	< 0.416 U	0.408
Radium-228	pCi/L	T	< 0.842 U	1.02	1.06	--	< 0.964 U	1.52
Selenium	mg/L	T	0.00032 J	0.00024 J	0.00028 J	0.00029 J	0.00028 J	0.00026 J
Thallium	mg/L	T	< 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 D	86	120	75	66	110
Michigan CCR Part 115								
Copper	mg/L	T	0.00052	0.00090	0.00037	0.0013	0.0015	0.00055
Iron	mg/L	T	30	37	47 D	43	26	47
Nickel	mg/L	T	0.0036	0.00072 J	0.0024	0.0073	0.0073	0.0017
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	< 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	< 0.00062 U	0.00071 J
Zinc	mg/L	T	0.0090	0.0067	0.031	0.083	0.11	0.047
Additional Parameters								
Bicarbonate Alkalinity	mg/L	T	560	600	590	550	480	590 D
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	27	27	33 D	39	29	28
Potassium	mg/L	T	12	13	14 D	13	10	14
Sodium	mg/L	T	29	66	51 D	80 D	65	74
Total Alkalinity	mg/L	T	560	600	590	550	480	590 D

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.

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

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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-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	4/20/2025	8/11/2025
			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															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	3.38	4412
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	0.26	0.1
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	-29.4	-192.5
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	7.02	6.96
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	7.4	18.3
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	0.02	0.02
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	1.8 D	2.0
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	710 D	610 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	1100 D	1100 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	1.1 D	1.2 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	1000 D	840 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	4000 D	4300 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	< 0.00010 U	< 0.00010 U
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	0.0030	0.0011
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	0.071	0.062 J+
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	< 0.000052 U	0.000062 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	< 0.00038 UD	< 0.000075 U	< 0.000075 U
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	0.0065	0.0080
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	0.0021	0.00047 J
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	1.1 D	1.2 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	< 0.00050 UD	< 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	0.19 D	0.18
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	< 0.00000016 U	< 0.00000016 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	0.0037	0.0012
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	1.05	< 0.695 U	1.43
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	0.53	< 0.149 U	0.381
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	0.52	< 0.695 U	1.05
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	0.00014 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	< 0.00038 UJ	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.000075 U	< 0.00038 UD	< 0.00038 UD	< 0.00038 UD	< 0.000075 U	< 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	38	15
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	0.00020 J	< 0.00020 U
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	17 D	4.5
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	0.0053	0.0013
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	< 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 UJ	< 0.00062 U	< 0.0031 UD	< 0.00062 U	0.00047 J
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	0.0027	0.0011 J
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	540	660
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	< 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	180 D	150 D
Potassium	mg/L	T	12	15	16	17	12	9.6	11	13	10 D	10 D	8.9	11	11 D	18	18 D	19
Sodium	mg/L	T	120	110	120	220	98	95	95 D	88 D	82 D	89 D	73	82	120 D	330 D	400 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	540	660

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-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	4/20/2025	8/12/2025
			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	Field Sample
			Unit 1/2																
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	0.996	1377
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	0.14	2.34
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	-105	123.2
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	7.73	7.8
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	10.4	16.2
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	0.02	22.1
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	4.4	6.4
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	200	160 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	100 D	170 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	4.5 D	4.0 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	240 D	60 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	960 D	910 D
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	< 0.00010 U	0.0011
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	0.00073	0.0019
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	0.099	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	0.000054 J	< 0.000052 U	< 0.000052 U	--	0.000096 J	< 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	0.000084 J	< 0.000075 U	< 0.000075 U	--	< 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	0.0031	0.0018
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	< 0.00010 U	0.00016 J
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	4.5 D	4.0 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	< 0.00010 U	0.00025 J
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	0.030	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	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	0.00000071	0.0000017
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	0.00040 J	0.0091
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	< 0.56 U	< 0.644 U	0.576
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	< 0.24 U	< 0.14 U	< 0.277 U
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	< 0.56 U	< 0.644 U	< 0.573 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	0.00012 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	0.000088 J	< 0.000075 U	< 0.000075 U	--	< 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	< 4.0 U	1.0 J	< 4 U	< 4.0 UD	< 3.9 UD	--	< 4.0 U	< 4.0 UD	< 4.0 U	< 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	< 0.00020 U	0.00033
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	0.15	0.84
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	0.0014	0.24
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	< 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	0.00076 J	0.00045 J
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	0.0016	0.0022
Additional Parameters																			
Bicarbonate Alkalinity	mg/L	T	410	340	350	320	290	320	340	410	440 D	340 D	350	--	410	450	410	410	500
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	< 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	37	51
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	9.9	13
Sodium	mg/L	T	60	46	51	48	50	53	64	56 D	56 D	54 D	53	54	--	61 D	57	51	71
Total Alkalinity	mg/L	T	410	340	350	320	290	320	340	410	440 D	340 D	350	--	410	450	410	410	500

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	4/20/2025	8/11/2025
			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 3A/B & 1/2															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	0.758	897
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	0.11	0.09
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	-143.2	-211.1
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	7.67	7.57
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	8.5	16.7
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	4.21	0.02
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	2.8	5.1
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	160	150 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	46 D	53 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	1.4 D	1.5 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	110 D	6.4 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	690 D	610 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	< 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	0.00042 J	0.00051 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	0.84	1.1 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	< 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	< 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	0.00035	0.00035
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	0.00032 J	0.00052
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	1.4 D	1.5 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	< 0.00010 U	0.00039 J
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	0.094	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	0.0019	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.0000012
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	0.0026	0.0026
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	0 J-	< 0.639 U	1.6
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	0 J-	0.217	0.573
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	-0.04 J-	< 0.639 U	1.02
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	< 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	< 0.000075 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	36	26
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	< 0.00020 U	0.00030
Iron	mg/L	T	20	18	18	19	18	17	15	11	11 D	17 D	16	12	13 D	14	15	15
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	0.0019	0.00089 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	< 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	< 0.00062 U	< 0.00028 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	0.0047	0.0046
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	560	490	500	450	440	430	440	440	520 D	440 D	470	440	510	480	470	500
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	< 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	28	31
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	8.2	12
Sodium	mg/L	T	36	29	29	30	27	30	33	32 D	35 D	30 D	28	30	36 D	29	25	34
Total Alkalinity	mg/L	T	560	490	500	450	440	430	440	440	520 D	440 D	470	440	510	480	470	500

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	4/19/2025	8/12/2025
			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 3A/B & 1/2															
Constituent	Unit	Fraction	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
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	0.631	1.16
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	0.26	0.26
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	-48.4	12.4
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	6.8	6.83
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	7.8	17.8
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	0.02	0.02
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	0.21	0.16
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	160	190 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	41 D	47 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	0.31 D	0.41 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	22 D	41 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	640 D	720 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	0.00036	0.00042
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	0.0056	0.0087
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	0.10	0.18
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	< 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	< 0.000075 U	< 0.000075 U
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	0.0056	0.0093
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	0.0031	0.00060
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	0.31 D	0.41 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	0.00012 J	0.00017 J
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	0.0049	0.0063
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	0.0000029	0.0000016
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	0.0048	0.0017
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	0.31 J-	< 1.46 U	1.11
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	-0.03 J-	< 0.346 U	0.0278 J-
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	0.31 J-	< 1.46 UG	1.08
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	0.00053	0.00052
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	< 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	27	70
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	0.0042	0.00090
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	8.9	25
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	0.028	0.012
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	< 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	0.00095 J	0.0015
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	0.0092	0.0029 J+
Additional Parameters																		
Bicarbonate Alkalinity	mg/L	T	460	430	400	390	440	480	440	480	420 D	330 D	430 D	550	390	320	460	520 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	22	19	18	17	16	18	16	16	19 D	16 D	19	21	17 D	12	18	19
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	4.5	6.1
Sodium	mg/L	T	38	25	24	26	22	22	23	22	30 D	25 D	17	21	26 D	19	20	24
Total Alkalinity	mg/L	T	460	430	400	390	440	480	440	480	420 D	330 D	430 D	550	390	320	460	520 D

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	4/21/2025	8/12/2025
			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 3A/B & 1/2															
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	1.86	1.98
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	0.15	0.29
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	-83.9	-71.8
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	6.62	6.65
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	8.8	6.3
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	1.26	6.32
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	1.9	2.6
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	210	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	21 D	21 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	0.32 D	0.40 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	< 2.2 UD	0.65 JD
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	750 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	0.00013 J	0.00013 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	0.00075	0.00092
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	0.54	0.57
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	< 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	< 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	0.025	0.024
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	0.0010	0.0011
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	0.32 D	0.40 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	0.00028 J	0.00054 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	0.056	0.073
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	0.0000016	0.0000020
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	< 0.00025 U	< 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	--	2.62	1.7
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	--	< 0.656 U	< 0.391 U
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	--	2.12 G	1.35
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	0.00026 J	0.00024 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	< 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	160	140
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	0.00028	0.00026
Iron	mg/L	T	73	70	83	78	75	77	77	64 D	70 D	72 D	76	65	59 D	64	69	72
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	0.012	0.011
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	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00031 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	0.0010 J	0.0010 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	0.0026	0.0025
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	930	950 D
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	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	30	23	22	21	20	24	27	26 D	29 D	23 D	25	25	22 D	23	24	25
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	8.2	9.7
Sodium	mg/L	T	34	30	28	22	23	30	38	33 D	38 D	26 D	25	29	25 D	26	24	27
Total Alkalinity	mg/L	T	1100	950	920	890	880	950	970 D	970	1000 D	830 D	950 D	960	920	900	930	950 D

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: 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	4/21/2025	8/12/2025
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
			Unit 1/2					
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	Unit	Fraction						
Field Parameters								
Conductivity	mS/cm	N	0.658	0.66	0.7	0.614	0.4807	0.78
Dissolved Oxygen	mg/L	N	0.08	0.02	0.01	0.06	0.12	0.06
Oxidation Reduction Potential	mV	N	-207.1	-331.7	-230.1	130.6	-223	-18.2
pH	su	N	10.42	9.89	8.79	9.54	8.95	8.97
Temperature	deg c	N	8.4	19.1	18.3	5.4	8.2	20.8
Turbidity	NTU	N	5.41	2.01	1.11	2.82	0.02	0.67
Appendix III								
Boron	mg/L	T	0.28	0.41	0.61 D	0.25	0.41	0.54
Calcium	mg/L	T	67	61	61 D	56	72	73
Chloride	mg/L	T	34 D	39 D	38 D	34 D	32 D	32 D
Fluoride	mg/L	T	0.61 D	0.65 D	0.92 D	0.61 D	0.72 D	0.90 D
Sulfate (as SO4)	mg/L	T	5.7 JD	21 D	10 D	10 D	6.8 D	5.9 JD
Total Dissolved Solids	mg/L	T	330 D	460 D	390 D	400 D	450 D	480 D
Appendix IV								
Antimony	mg/L	T	0.00076	0.0015	0.00075	0.0029	0.00076	0.00080
Arsenic	mg/L	T	0.029	0.029	0.013	0.012	0.0093	0.012
Barium	mg/L	T	0.15	0.17	0.20	0.13	0.25	0.25
Beryllium	mg/L	T	0.000059 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U
Cadmium	mg/L	T	0.00032	0.00082	0.00019 J	0.00046	0.000094 J	0.00020 J
Chromium, Total	mg/L	T	0.0013	0.0031	0.0018	0.0021	0.0011	0.0015
Cobalt	mg/L	T	0.00027 J	0.00027 J	0.00018 J	0.00028 J	0.00018 J	0.00017 J
Fluoride	mg/L	T	0.61 D	0.65 D	0.92 D	0.61 D	0.72 D	0.90 D
Lead	mg/L	T	0.025	0.051	0.012	0.032	0.0060	0.016
Lithium	mg/L	T	0.0057	0.0089	0.012	0.0042	0.010	0.014
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000063	0.0000099
Molybdenum	mg/L	T	0.019	0.042	0.034	0.037	0.017	0.025
Radium 226 and 228	pCi/L	T	< 0.861 U	< 1.4 UJ	1.08	--	< 0.933 U	< 0.892 U
Radium-226	pCi/L	T	0.467	< 0.207 UJ	< 0.194 U	--	< 0.319 U	0.117 J+
Radium-228	pCi/L	T	< 0.861 U	< 1.4 UJ	0.959	--	< 0.933 U	0.151 J-
Selenium	mg/L	T	0.00060	0.00072	0.00065	0.00064	0.00049 J	0.00049 J
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 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	< 4.0 U	< 4.0 U
Michigan CCR Part 115								
Copper	mg/L	T	0.0077	0.019	0.0086	0.011	0.0025	0.0041
Iron	mg/L	T	0.40	0.35	0.44	0.39	1.1	0.80
Nickel	mg/L	T	0.011	0.0084	0.0054	0.0066	0.0056	0.0048
Silver	mg/L	T	0.00021	0.00057	0.00011	0.00023	0.000051	0.00011
Vanadium	mg/L	T	0.0024	0.0052	0.0025	0.0052	0.0037	0.0032
Zinc	mg/L	T	0.0088	0.020	0.014	0.013	0.0042	0.0054
Additional Parameters								
Bicarbonate Alkalinity	mg/L	T	78	160	270	200	320	380 D
Carbonate Alkalinity	mg/L	T	120	110	34	97	39	< 0.31 UJ
Magnesium	mg/L	T	6.9	7.5	9.3 D	6.1	13	11
Potassium	mg/L	T	52	45	30 D	46	33	36
Sodium	mg/L	T	61	65	57 D	62	56	61
Total Alkalinity	mg/L	T	200	260	310	300	350	380 D

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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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	4/20/2025	8/12/2025
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
			Unit 1/2					
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	Unit	Fraction						
Field Parameters								
Conductivity	mS/cm	N	1.16	1.24	1	1.09	1	1.05
Dissolved Oxygen	mg/L	N	1.04	0.04	0.01	0.89	0.14	0.18
Oxidation Reduction Potential	mV	N	-19	65	6.7	74.1	-72.7	-8.9
pH	su	N	7.47	7.15	7.21	7.16	7.42	7.28
Temperature	deg c	N	9	17.8	18.1	7.9	9.3	19.5
Turbidity	NTU	N	0.02	0.02	7.46	0.02	0.5	1.21
Appendix III								
Boron	mg/L	T	5.2	3.9	1.9 D	5.9	4.8	4.0
Calcium	mg/L	T	160 D	160 D	120 D	160 D	140	140 D
Chloride	mg/L	T	22 D	29 D	40 D	15 D	15 D	15 D
Fluoride	mg/L	T	0.63 D	0.39 D	0.50 D	0.40 D	0.50 D	0.60 D
Sulfate (as SO4)	mg/L	T	210 D	260 D	110 D	270 D	260 D	230 D
Total Dissolved Solids	mg/L	T	790 D	840 D	630 D	780 D	700 D	720 D
Appendix IV								
Antimony	mg/L	T	0.00064	0.00040	0.00023 J	0.00011 J	0.00017 J	0.00017 J
Arsenic	mg/L	T	0.00055	0.00046 J	0.00046 J	0.00074	0.00061	0.00073
Barium	mg/L	T	0.040	0.046	0.044	0.074	0.067	0.070
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000076 J	< 0.000052 U	< 0.000052 U
Cadmium	mg/L	T	0.00012 J	0.00013 J	0.00011 J	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	T	0.00039	0.00054	0.00027	0.00028	0.00036	0.00026
Cobalt	mg/L	T	0.00075	0.00053	0.00051 J	0.00076	0.00038 J	0.00044 J
Fluoride	mg/L	T	0.63 D	0.39 D	0.50 D	0.40 D	0.50 D	0.60 D
Lead	mg/L	T	0.00017 J	0.00013 J	< 0.00010 U	< 0.00010 U	0.00058	0.00052 J
Lithium	mg/L	T	0.020	0.022	0.019	0.0093	0.0097	0.016
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000016	0.0000018
Molybdenum	mg/L	T	0.015	0.0075	0.0064	0.012	0.013	0.0094
Radium 226 and 228	pCi/L	T	< 0.569 U	< 0.764 U	< 0.96 UJ	0.95	1.09	< 0.572 U
Radium-226	pCi/L	T	< 0.142 U	0.104	< 0.226 UJ	0.67	< 0.319 U	< 0.289 U
Radium-228	pCi/L	T	< 0.569 U	< 0.764 U	< 0.96 UJ	< 0.43 U	1.09	< 0.572 U
Selenium	mg/L	T	0.0046	0.0030	0.0018	0.00065	0.00091	0.0011
Thallium	mg/L	T	< 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 UD	3.9 JD	< 4.0 UD	< 4.0 U	< 4.0 U	< 4.0 U
Michigan CCR Part 115								
Copper	mg/L	T	0.013	0.014	0.014	0.0067	0.0088	0.012
Iron	mg/L	T	0.16	< 0.026 U	0.026 J	2.1	1.7	0.90
Nickel	mg/L	T	0.0046	0.0052	0.0039	0.0029	0.0029	0.0037
Silver	mg/L	T	< 0.000050 U	< 0.000050 U	0.00017 J+	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	T	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00067 J	< 0.00062 U	0.00039 J
Zinc	mg/L	T	0.017	0.017	0.011	0.015	0.0097	0.011
Additional Parameters								
Bicarbonate Alkalinity	mg/L	T	310	340	350	340	290	330 D
Carbonate Alkalinity	mg/L	T	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 UD
Magnesium	mg/L	T	13	12	9.8 D	12	9.9	11
Potassium	mg/L	T	18	20	18 D	13	19	20
Sodium	mg/L	T	100 D	98 D	57 D	68	58	49
Total Alkalinity	mg/L	T	310	340	350	340	290	330 D

Notes:

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mg/l = milligrams per liter.
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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	4/20/2025	8/12/2025
			Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
			Unit 3A/B					
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	Unit	Fraction						
Field Parameters								
Conductivity	mS/cm	N	1.27	1.18	1.3	0.91	0.587	0.64
Dissolved Oxygen	mg/L	N	0.4	0.17	0.13	0.33	1.51	0.27
Oxidation Reduction Potential	mV	N	-207.4	-25.1	-69.8	-5.7	-102.8	12
pH	su	N	10	9.23	9	9.12	9.17	8.33
Temperature	deg c	N	11.7	20.6	16.9	6	8.1	23.2
Turbidity	NTU	N	7.83	0.02	0.02	8.46	3.32	2.01
Appendix III								
Boron	mg/L	T	1.6 D	2.4	3.0 D	1.2	0.47	2.1
Calcium	mg/L	T	150 D	96 D	110 D	74	72	91 D
Chloride	mg/L	T	51 D	57 D	58 D	42 D	11 D	34 D
Fluoride	mg/L	T	0.79 D	1.0 D	1.8 D	0.83 D	0.63 D	1.2 D
Sulfate (as SO4)	mg/L	T	280 D	170 D	210 D	130 D	210 D	120 D
Total Dissolved Solids	mg/L	T	840 D	850 D	980 D	350 D	460 D	580 D
Appendix IV								
Antimony	mg/L	T	0.00068	0.0017	0.0011	0.0018	0.0013	0.00031
Arsenic	mg/L	T	0.0050	0.0071	0.0033	0.0057	0.0050	0.0025
Barium	mg/L	T	0.16	0.12	0.17	0.070	0.036	0.11
Beryllium	mg/L	T	< 0.000052 U	0.000067 J	0.000090 J	< 0.000052 U	< 0.000052 U	< 0.000052 U
Cadmium	mg/L	T	0.000096 J	0.00037	0.00015 J	0.00049	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	T	0.0040	0.016	0.0072	0.013	0.0039	0.0044
Cobalt	mg/L	T	0.00053	0.00071	0.00055	0.00079	0.00025 J	0.00029 J
Fluoride	mg/L	T	0.79 D	1.0 D	1.8 D	0.83 D	0.63 D	1.2 D
Lead	mg/L	T	0.015	0.086	0.023	0.060	0.0076	0.0053
Lithium	mg/L	T	0.12	0.098	0.12 D	0.094	0.047	0.12
Mercury	mg/L	T	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000093	0.000021
Molybdenum	mg/L	T	0.0097	0.014	0.0095	0.023	0.025	0.0064
Radium 226 and 228	pCi/L	T	1.21	< 1.72 U	2.12	--	< 2.65 U	< 1.03 U
Radium-226	pCi/L	T	0.492	< 0.314 U	0.278	--	< 0.988 U	< 0.469 U
Radium-228	pCi/L	T	< 1.08 UG	< 1.72 UG	1.84	--	< 2.65 UG	< 1.03 UG
Selenium	mg/L	T	0.00073	0.00095	0.00059	0.0010	0.0015	0.00046 J
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U	< 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	7.0	< 4.0 U
Michigan CCR Part 115								
Copper	mg/L	T	0.0031	0.020	0.0063	0.018	0.0037	0.00098
Iron	mg/L	T	0.39	1.0	0.51	1.4	0.13	0.26
Nickel	mg/L	T	0.0053	0.0096	0.0067	0.0083	0.0038	0.0038
Silver	mg/L	T	< 0.000050 U	0.00019	0.000065	0.00015	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	T	0.0066	0.010	0.0053	0.015	0.014	0.0081
Zinc	mg/L	T	0.0066	0.020	0.015	0.021	0.0039	0.0038
Additional Parameters								
Bicarbonate Alkalinity	mg/L	T	270	300	380	230	55	260 D
Carbonate Alkalinity	mg/L	T	12	50	60	75	43	< 0.31 UD
Magnesium	mg/L	T	18	13	18 D	7.4	1.3	10
Potassium	mg/L	T	91 D	86 D	88 D	82	44	75
Sodium	mg/L	T	97 D	100 D	100 D	96 D	36	74
Total Alkalinity	mg/L	T	280	350	440	300	98	260 D

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:	MW-39
		Compliance Phase:	AM/DM Round
		Sample Date:	8/13/2025
		Sample Type:	Field Sample
		Unit:	
		Sample Matrix:	Groundwater
Constituent	Unit	Fraction	
Field Parameters			
Conductivity	mS/cm	N	1.21
Dissolved Oxygen	mg/L	N	0.14
Oxidation Reduction Potential	mV	N	74.5
pH	su	N	7.3
Temperature	deg c	N	20.4
Turbidity	NTU	N	8.5
Appendix III			
Boron	mg/L	T	1.4
Calcium	mg/L	T	200 D
Chloride	mg/L	T	13 D
Fluoride	mg/L	T	0.49 D
Sulfate (as SO4)	mg/L	T	48 D
Total Dissolved Solids	mg/L	T	710 D
Appendix IV			
Antimony	mg/L	T	0.00013 J
Arsenic	mg/L	T	0.0012
Barium	mg/L	T	0.11
Beryllium	mg/L	T	< 0.000052 U
Cadmium	mg/L	T	0.00013 J
Chromium, Total	mg/L	T	0.0069
Cobalt	mg/L	T	0.00037 J
Fluoride	mg/L	T	0.49 D
Lead	mg/L	T	0.00015 J
Lithium	mg/L	T	0.023
Mercury	mg/L	T	0.0000017
Molybdenum	mg/L	T	0.00026 J
Radium 226 and 228	pCi/L	T	1.2
Radium-226	pCi/L	T	< 0.452 U
Radium-228	pCi/L	T	1.03
Selenium	mg/L	T	0.00030 J
Thallium	mg/L	T	< 0.000075 U
Total Suspended Solids	mg/L	T	14
Michigan CCR Part 115			
Copper	mg/L	T	0.00047
Iron	mg/L	T	6.0
Nickel	mg/L	T	0.0021
Silver	mg/L	T	< 0.000050 U
Vanadium	mg/L	T	0.00097 J
Zinc	mg/L	T	0.0091
Additional Parameters			
Bicarbonate Alkalinity	mg/L	T	580 D
Carbonate Alkalinity	mg/L	T	< 0.31 UD
Magnesium	mg/L	T	33
Potassium	mg/L	T	9.7
Sodium	mg/L	T	25
Total Alkalinity	mg/L	T	580 D

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 analvte beind 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-02												
			Background Monitoring							AM/DM Round					
			12/2/2022	1/5/2023	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	4/22/2025
			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
			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	Surface Water
Constituent	Unit	Fraction													
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	0.69
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	9.53
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	33.2
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	8.38
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	14.8
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	9.08
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	2.6
Calcium	mg/L	T	210	140	140	130	150	210 D	170 D	180 D	140 D	140 D	170 D	160 D	100
Chloride	mg/L	T	75	46	41	37	40	86 D	120 D	99 D	52 D	36 D	120 D	110 D	54 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	2.5 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	270 D
Total Dissolved Solids	mg/L	T	1100	660	580	680	740	1200 D	1400 D	1100	690 D	690	1100 D	1100 D	560 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	0.00079
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	0.0014
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	0.049
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	0.000078 J
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	< 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	0.00036
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	0.00012 J
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	2.5 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	0.00063
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	0.046
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	0.0000064
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	0.014
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	0.658
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	0.382
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	< 0.565 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	0.0014
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	< 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	11
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	0.0015
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	0.10
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	0.0021
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	< 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	0.0012
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	0.0016
Additional Parameters															
Bicarbonate Alkalinity	mg/L	T	96	76	62	71	35	73	65	130 D	93	79	94	110	85
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	< 0.16 U
Magnesium	mg/L	T	48	31	28	28	33	53	63 D	57 D	37 D	34	61	56 D	28
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	6.7
Sodium	mg/L	T	40	24	22	21	27	52	62 D	58 D	31 D	28	66	60 D	27
Total Alkalinity	mg/L	T	96	76	62	71	35	73	83	130 D	93	79	94	110	85

Notes:

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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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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-04R												
			Background Monitoring							AM/DM Round					
			12/2/2022	1/5/2023	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	4/22/2025
			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
			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	Surface Water
Constituent	Unit	Fraction													
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	1.074
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	7.13
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	44.8
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	7.56
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	15.4
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	7.77
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	3.5 D
Calcium	mg/L	T	430	300	370	310	390	600 D	580 DE	500 D	340 D	370 D	510 D	390 D	410 D
Chloride	mg/L	T	27	22	21	20	22	33 D	38 D	35 D	23 D	20 D	38 D	42 D	71 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	1.6 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	750 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	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	< 0.00010 U
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	0.0014
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	0.12
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	< 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	< 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	0.0044
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	0.00024 J
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	1.6 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	< 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	0.056 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	< 0.00000016 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	0.00096 J
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	< 0.535 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	< 0.326 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	< 0.535 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	0.00020 J
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	< 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	21
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	< 0.00020 U
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	7.0 D
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	0.013
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	< 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	0.00094 J
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	< 0.0012 U
Additional Parameters															
Bicarbonate Alkalinity	mg/L	T	110	87	98	100	62	50	30	61 D	100	93	42	46	670
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	< 0.16 U
Magnesium	mg/L	T	41	30	33	29	35	53	62 D	57 D	44 D	43	61	55 D	140 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	20 D
Sodium	mg/L	T	24	20	21	19	22	39	40 D	34 D	26 D	26	39	34 D	74 D
Total Alkalinity	mg/L	T	110	87	98	100	62	50	43	61 D	100	93	43	46	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:			SG-05												
			Background Monitoring							AM/DM Round					
			12/2/2022	1/5/2023	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	4/22/2025
			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
			Surface Water												
Constituent	Unit	Fraction													
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	0.898
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	10.6
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	31.7
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	8.22
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	16.5
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	6.11
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	1.2
Calcium	mg/L	T	140	120	120	120	81	34	34	120 D	130 D	99 D	22	140 D	160
Chloride	mg/L	T	79	51	61	50	54	64 D	29 D	54 D	54 D	37 D	52 D	46 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	1.1 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	240 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	750 D
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	0.00027
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	0.0012
Barium	mg/L	T	0.58	0.23	0.35	0.039	0.20	0.11	0.16	0.51	0.50	0.26	0.10	0.63	0.37
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000026 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	< 0.000052 U
Cadmium	mg/L	T	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000016 U	< 0.000075 U	0.00011 J	0.00075	0.000094 J	0.00041	0.00013 J	< 0.000075 U	0.00067	< 0.000075 U
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	0.00050
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	0.00029 J
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	1.1 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	0.0011
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	0.044
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	0.0000019
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	0.0054
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	< 0.852 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	< 0.499 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	< 0.852 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	0.00022 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	< 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	17
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	0.00071
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	1.6
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	0.0024
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	< 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	0.0011 J
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	0.0031
Additional Parameters															
Bicarbonate Alkalinity	mg/L	T	490	270	290	290	240	65	96	400 D	400	240	63	490	320
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	< 0.16 U
Magnesium	mg/L	T	27	23	26	26	25	21	12	24 D	26 D	23	19	29 D	33
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	8.6
Sodium	mg/L	T	43	30	38	34	37	44	21	40 D	43 D	30	30	45 D	45
Total Alkalinity	mg/L	T	490	270	290	290	240	110	110	400 D	400	240	100	490	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.

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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-07		
		AM/DM Round		
		4/22/2025	8/13/2025	
		Field Sample	Field Sample	
		Surface Water	Surface Water	
Constituent	Unit	Fraction		
Field Parameters				
Conductivity	mS/cm	N	0.4727	0.623
Dissolved Oxygen	mg/L	N	12.98	2.46
Oxidation Reduction Potential	mV	N	20.4	10.7
pH	su	N	8.44	8.33
Temperature	deg c	N	13.1	20.1
Turbidity	NTU	N	5.03	9.02
Appendix III				
Boron	mg/L	T	0.076	0.088
Calcium	mg/L	T	68	48
Chloride	mg/L	T	51 D	79 D
Fluoride	mg/L	T	0.16	0.16 JD
Sulfate (as SO4)	mg/L	T	44 D	45 D
Total Dissolved Solids	mg/L	T	360 D	390 D
Appendix IV				
Antimony	mg/L	T	0.00013 J	0.00020 J
Arsenic	mg/L	T	0.00091	0.0023
Barium	mg/L	T	0.057	0.055
Beryllium	mg/L	T	< 0.000052 U	< 0.000052 U
Cadmium	mg/L	T	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	T	0.00051	0.00042
Cobalt	mg/L	T	0.00020 J	0.00020 J
Fluoride	mg/L	T	0.16	0.16 JD
Lead	mg/L	T	0.00049 J	0.00040 J
Lithium	mg/L	T	0.0035	0.0048
Mercury	mg/L	T	0.0000019	0.00000093
Molybdenum	mg/L	T	0.0017	0.0039
Radium 226 and 228	pCi/L	T	< 0.833 U	1.1
Radium-226	pCi/L	T	< 0.457 U	0.416
Radium-228	pCi/L	T	< 0.833 U	0.687
Selenium	mg/L	T	0.00027 J	0.00019 J
Thallium	mg/L	T	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	T	14	12
Michigan CCR Part 115				
Copper	mg/L	T	0.0016	0.0024
Iron	mg/L	T	0.32	0.15
Nickel	mg/L	T	0.0012	0.0016
Silver	mg/L	T	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	T	0.00067 J	0.00086 J
Zinc	mg/L	T	0.0034	0.0060
Additional Parameters				
Bicarbonate Alkalinity	mg/L	T	210	170 D
Carbonate Alkalinity	mg/L	T	6.3	< 0.31 UD
Magnesium	mg/L	T	20	21
Potassium	mg/L	T	3.3	3.8
Sodium	mg/L	T	27	43
Total Alkalinity	mg/L	T	210	170 D

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.
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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.

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

August 27, 2025

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

RE: Trace Project 25H0691
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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2241 Black Creek Road
Muskegon, MI 49444-2673



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SAMPLE SUMMARY

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
25H0691-01	MW-04	Ground Water	AS/FDR	08/11/25 16:10	08/13/25 07:43
25H0691-02	MW-30	Ground Water	AS/FDR	08/11/25 14:20	08/13/25 07:43
25H0691-03	MW-32	Ground Water	AS/FDR	08/11/25 15:30	08/13/25 07:43
25H0691-04	LLHG-TB-08112025	Aqueous	AB/FDR	08/11/25 16:45	08/13/25 07:43
25H0691-05	MW-17	Ground Water	AS/FDR	08/12/25 11:15	08/13/25 07:43
25H0691-06	MW-18	Ground Water	AS/FDR	08/12/25 12:50	08/13/25 07:43
25H0691-07	MW-19	Ground Water	AS/FDR	08/12/25 14:05	08/13/25 07:43
25H0691-08	MW-27	Ground Water	AS/FDR	08/12/25 15:32	08/13/25 07:43
25H0691-09	MW-31	Ground Water	AS/FDR	08/12/25 10:00	08/13/25 07:43
25H0691-10	MW-33	Ground Water	AS/FDR	08/12/25 08:04	08/13/25 07:43
25H0691-11	MWT-33	Ground Water	AS/FDR	08/12/25 08:09	08/13/25 07:43
25H0691-12	MW-34	Ground Water	AS/FDR	08/12/25 14:12	08/13/25 07:43
25H0691-13	MW-36	Ground Water	AS/FDR	08/12/25 12:00	08/13/25 07:43
25H0691-14	MWT-36	Ground Water	AS/FDR	08/12/25 12:00	08/13/25 07:43
25H0691-15	MW-37	Ground Water	AS/FDR	08/12/25 10:30	08/13/25 07:43
25H0691-16	MW-38	Ground Water	AS/FDR	08/12/25 11:00	08/13/25 07:43
25H0691-17	LLHG-TB-08122025	Aqueous	AB/FDR	08/12/25 16:30	08/13/25 07:43
25H0691-18	MW-01R	Ground Water	AB/FDR	08/13/25 13:50	08/14/25 13:00
25H0691-19	MW-02	Ground Water	AB/FDR	08/13/25 13:00	08/14/25 13:00
25H0691-20	MW-03	Ground Water	AB/FDR	08/13/25 14:50	08/14/25 13:00
25H0691-21	MW-07	Ground Water	AB/FDR	08/13/25 08:55	08/14/25 13:00
25H0691-22	MW-09	Ground Water	AB/FDR	08/13/25 11:05	08/14/25 13:00
25H0691-23	MW-12	Ground Water	AB/FDR	08/13/25 16:15	08/14/25 13:00
25H0691-24	MW-13	Ground Water	AB/FDR	08/13/25 12:02	08/14/25 13:00
25H0691-25	MW-16	Ground Water	AB/FDR	08/13/25 10:44	08/14/25 13:00
25H0691-26	MW-20	Ground Water	AB/FDR	08/13/25 09:55	08/14/25 13:00
25H0691-27	MW-39	Ground Water	AB/FDR	08/13/25 09:00	08/14/25 13:00
25H0691-28	SG-07	Ground Water	AB/FDR	08/13/25 16:45	08/14/25 13:00
25H0691-29	LLHG-TB-08132025	Aqueous	AB/FDR	08/13/25 16:55	08/14/25 13:00
25H0691-30	MW-10	Ground Water	AB/FDR	08/14/25 07:40	08/14/25 13:00
25H0691-31	MW-11	Ground Water	AB/FDR	08/14/25 09:18	08/14/25 13:00
25H0691-32	MW-06	Ground Water	AB/FDR	08/14/25 10:22	08/14/25 13:00
25H0691-33	MW-08	Ground Water	AB/FDR	08/14/25 09:55	08/14/25 13:00
25H0691-34	MW-28	Ground Water	AB/FDR	08/14/25 11:10	08/14/25 13:00
25H0691-35	LLHG-TB-08142025	Aqueous	AB/FDR	08/14/25 11:50	08/14/25 13:00

CERTIFICATE OF ANALYSIS

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



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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-01 Date Collected: 08/11/25 16:10 Matrix: Ground Water
Sample ID: MW-04 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	0.21 ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	4.0 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	370 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	5.1 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.060 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	120 mg/L	0.50	10	08/22/25	jrc	08/26/25	cma		0.10
Potassium	22 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	68 mg/L	1.2	10	08/22/25	jrc	08/26/25	cma		0.88

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	<0.00010 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.0010 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.15 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.0038 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00030 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	<0.00020 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	<0.00050 mg/L	0.0028	5	08/22/25	jrc	08/25/25	jma		0.00050
Molybdenum	0.0011 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00025
Nickel	0.013 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00019 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.00038 mg/L	0.0019	5	08/22/25	jrc	08/25/25	jma		0.00038
Vanadium	0.00084 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00028
Zinc	0.0015 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-01 Date Collected: 08/11/25 16:10 Matrix: Ground Water
Sample ID: MW-04 Date Received: 08/13/25 07:43

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: T171738

Fluoride	1.6 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	91 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	760 mg/L	30	50	08/14/25	aeo	08/16/25	ch		2.9

Analysis Method: SM 2320 B-21

Batch: T172085

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	800 mg/L	10	2	08/21/25	ans	08/21/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/21/25	ans	08/21/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	800 mg/L	10	2	08/21/25	ans	08/21/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	2100 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	9.0 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	7.25 pH Units		1	08/11/25	gmr	08/13/25	cn	H02, PH01	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-02 Date Collected: 08/11/25 14:20 Matrix: Ground Water
Sample ID: MW-30 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	<0.16 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	2.0 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	610 mg/L	5.1	20	08/22/25	jrc	08/26/25	cma		0.74
Iron	4.5 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.18 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	150 mg/L	1.0	20	08/22/25	jrc	08/26/25	cma		0.20
Potassium	19 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	330 mg/L	2.5	20	08/22/25	jrc	08/26/25	cma		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	<0.00010 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.0011 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.062 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	0.000062 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.0080 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00047 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	<0.00020 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	<0.00050 mg/L	0.0028	5	08/22/25	jrc	08/25/25	jma		0.00050
Molybdenum	0.0012 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.0013 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00013 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.00038 mg/L	0.0019	5	08/22/25	jrc	08/25/25	jma		0.00038
Vanadium	0.00047 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00028
Zinc	0.0011 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-02 Date Collected: 08/11/25 14:20 Matrix: Ground Water
Sample ID: MW-30 Date Received: 08/13/25 07:43

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: T171738

Fluoride	1.2 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	1100 mg/L	15	100	08/14/25	aeo	08/16/25	ch		12
Sulfate as SO ₄	840 mg/L	60	100	08/14/25	aeo	08/16/25	ch		5.8

Analysis Method: SM 2320 B-21

Batch: T172085

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	660 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	660 mg/L	5.0	1	08/21/25	ans	08/21/25	ans		0.16

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	4300 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	15 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	7.05 pH Units		1	08/11/25	gmr	08/13/25	cn	H02, PH01b	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-03 Date Collected: 08/11/25 15:30 Matrix: Ground Water
Sample ID: MW-32 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	1.2 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	5.1 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	150 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	15 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.16 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	31 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	12 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	34 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	<0.00010 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.00051 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Barium	1.1 mg/L	0.012	5	08/22/25	jrc	08/25/25	jma		0.0015
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.00035 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00052 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma		0.00010
Copper	0.00030 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.00039 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Molybdenum	0.0026 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.00089 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00015
Selenium	<0.00010 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	<0.00028 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.0046 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-03 Date Collected: 08/11/25 15:30 Matrix: Ground Water
Sample ID: MW-32 Date Received: 08/13/25 07:43

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: T171738

Fluoride	1.5 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	53 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	6.4 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172085

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	500 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	500 mg/L	5.0	1	08/21/25	ans	08/21/25	ans		0.16

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	610 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	26 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	7.41 pH Units		1	08/11/25	gmr	08/13/25	cn	H02, PH01c	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-04 Date Collected: 08/11/25 16:45 Matrix: Aqueous
Sample ID: LLHG-TB-08112025 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E
Batch: T171766

Mercury	<0.16	ng/L	0.20	1	08/18/25	jma	08/19/25	jma		0.16
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-05 Date Collected: 08/12/25 11:15 Matrix: Ground Water
Sample ID: MW-17 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	0.29 ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	1.0 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	150 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	4.7 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.043 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	27 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	17 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	56 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	<0.00010 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.0023 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.90 mg/L	0.012	5	08/22/25	jrc	08/25/25	jma		0.0015
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.00059 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00033 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	0.00033 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.00014 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Molybdenum	0.00052 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00025
Nickel	0.00092 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00015
Selenium	0.00018 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.00060 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00028
Zinc	0.0029 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-05 Date Collected: 08/12/25 11:15 Matrix: Ground Water
Sample ID: MW-17 Date Received: 08/13/25 07:43

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: T171738

Fluoride	0.65 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	36 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	0.79 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch	J	0.58

Analysis Method: SM 2320 B-21

Batch: T172085

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	550 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	550 mg/L	5.0	1	08/21/25	ans	08/21/25	ans		0.16

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	620 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	4.0 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	7.50 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01d	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-06 Date Collected: 08/12/25 12:50 Matrix: Ground Water
Sample ID: MW-18 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	0.86 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	4.2 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	250 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	5.3 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.043 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	30 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	8.9 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	22 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00010 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Arsenic	0.036 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.021 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	<0.00020 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.0011 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma		0.00010
Copper	0.00087 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.00025 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Molybdenum	0.019 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.0032 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00015 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	<0.00028 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.016 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-06 Date Collected: 08/12/25 12:50 Matrix: Ground Water
Sample ID: MW-18 Date Received: 08/13/25 07:43

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: T171738

Fluoride	4.7 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	26 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	570 mg/L	30	50	08/14/25	aeo	08/16/25	ch		2.9

Analysis Method: SM 2320 B-21

Batch: T172085

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	220 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	220 mg/L	5.0	1	08/21/25	ans	08/21/25	ans		0.16

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	1100 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	12 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	7.33 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01e	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-07 Date Collected: 08/12/25 14:05 Matrix: Ground Water
Sample ID: MW-19 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	0.26 ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	2.7 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	450 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	14 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.088 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	39 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	15 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	32 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00011 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Arsenic	0.0024 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.039 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	0.000098 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.00022 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.00020
Cobalt	0.00018 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	0.00040 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	<0.00050 mg/L	0.0028	5	08/22/25	jrc	08/25/25	jma		0.00050
Molybdenum	0.0097 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.0033 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	<0.00010 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.00038 mg/L	0.0019	5	08/22/25	jrc	08/25/25	jma		0.00038
Vanadium	0.00055 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00028
Zinc	0.0017 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-07 Date Collected: 08/12/25 14:05 Matrix: Ground Water
Sample ID: MW-19 Date Received: 08/13/25 07:43

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: T171738

Fluoride	1.9 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	37 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	910 mg/L	30	50	08/14/25	aeo	08/16/25	ch		2.9

Analysis Method: SM 2320 B-21

Batch: T172085

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	300 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	300 mg/L	5.0	1	08/21/25	ans	08/21/25	ans		0.16

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	1800 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	22 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	6.36 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01f	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-08 Date Collected: 08/12/25 15:32 Matrix: Ground Water
Sample ID: MW-27 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	0.57 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	0.54 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	170 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	8.1 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.0093 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	45 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	12 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	90 mg/L	1.2	10	08/22/25	jrc	08/26/25	cma		0.88

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	<0.00010 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.0013 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.31 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.041 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00096 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma		0.00010
Copper	0.00020 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.00020
Lead	<0.00010 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Molybdenum	<0.00025 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.00084 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00015
Selenium	0.00029 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.0020 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.0027 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-08 Date Collected: 08/12/25 15:32 Matrix: Ground Water
Sample ID: MW-27 Date Received: 08/13/25 07:43

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: T171738

Fluoride	0.58 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	120 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	1.0 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch	J	0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	1500 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	1500 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	900 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	11 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	6.36 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01g	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-09 Date Collected: 08/12/25 10:00 Matrix: Ground Water
Sample ID: MW-31 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	1.7 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	6.4 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	160 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	0.84 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.051 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	51 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	13 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	71 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.0011 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.0019 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.25 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.0018 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00016 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	0.00033 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.00025 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Molybdenum	0.0091 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.24 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00024 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.00045 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00028
Zinc	0.0022 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-09 Date Collected: 08/12/25 10:00 Matrix: Ground Water
Sample ID: MW-31 Date Received: 08/13/25 07:43

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: T171738

Fluoride	4.0 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	170 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	60 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172085

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	500 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.16 mg/L	5.0	1	08/21/25	ans	08/21/25	ans	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	500 mg/L	5.0	1	08/21/25	ans	08/21/25	ans		0.16

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	910 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	<4.0 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	7.91 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01h	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-10 Date Collected: 08/12/25 08:04 Matrix: Ground Water
Sample ID: MW-33 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	1.6 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	0.16 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	190 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	25 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.0063 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	19 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	6.1 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	24 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00042 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.0087 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.18 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.0093 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00060 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma		0.00010
Copper	0.00090 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.00017 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Molybdenum	0.0017 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.012 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00052 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.0015 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.0029 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-10 Date Collected: 08/12/25 08:04 Matrix: Ground Water
Sample ID: MW-33 Date Received: 08/13/25 07:43

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: T171738

Fluoride	0.41 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	47 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	41 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172085

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	520 mg/L	10	2	08/21/25	ans	08/21/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/21/25	ans	08/21/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	520 mg/L	10	2	08/21/25	ans	08/21/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	720 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	70 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	6.83 pH Units		1	08/12/25	gmr	08/13/25	cn	H02, PH01i	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-11 Date Collected: 08/12/25 08:09 Matrix: Ground Water
Sample ID: MWT-33 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	1.5 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	0.15 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	190 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	26 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.0062 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	20 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	6.4 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	24 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00039 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.0091 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.18 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.0097 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00062 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma		0.00010
Copper	0.00074 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.00014 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Molybdenum	0.0017 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.012 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00056 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.0017 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.0016 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-11 Date Collected: 08/12/25 08:09 Matrix: Ground Water
Sample ID: MWT-33 Date Received: 08/13/25 07:43

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: T171738

Fluoride	0.39 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	47 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	38 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	500 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	500 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	730 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	71 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	6.73 pH Units		1	08/12/25	gmr	08/13/25	cn	H02, PH01j	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-12 Date Collected: 08/12/25 14:12 Matrix: Ground Water
Sample ID: MW-34 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	2.0	ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	2.6	mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	220	mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	72	mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.073	mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	25	mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	9.7	mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	27	mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00013	mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Arsenic	0.00092	mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.57	mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052	mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.024	mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.0011	mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma		0.00010
Copper	0.00026	mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.00054	mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.011	mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00024	mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	<0.000050	mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075	mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.0010	mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00028
Zinc	0.0025	mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-12 Date Collected: 08/12/25 14:12 Matrix: Ground Water
Sample ID: MW-34 Date Received: 08/13/25 07:43

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: T171738

Fluoride	0.40 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	21 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	0.65 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch	J	0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	950 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	950 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	720 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	140 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	6.57 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01k	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-13 Date Collected: 08/12/25 12:00 Matrix: Ground Water
Sample ID: MW-36 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	9.9 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	0.54 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	73 mg/L	0.26	1	08/22/25	jrc	08/26/25	cma		0.037
Iron	0.80 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.014 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	11 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	36 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	61 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00080 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.012 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.25 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	0.00020 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.000075
Chromium	0.0015 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00017 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	0.0041 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.016 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Molybdenum	0.025 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.0048 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00049 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	0.00011 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.0032 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.0054 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-13 Date Collected: 08/12/25 12:00 Matrix: Ground Water
Sample ID: MW-36 Date Received: 08/13/25 07:43

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: T171738

Fluoride	0.90 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	32 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	5.9 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch	J	0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	380 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	380 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	480 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	<4.0 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	8.71 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01I	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-14 Date Collected: 08/12/25 12:00 Matrix: Ground Water
Sample ID: MWT-36 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	10 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	0.51 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	70 mg/L	0.26	1	08/22/25	jrc	08/26/25	cma		0.037
Iron	0.70 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.013 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	11 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	36 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	60 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00083 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.012 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.24 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	0.00019 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.000075
Chromium	0.0016 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00017 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	0.0039 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.016 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Molybdenum	0.026 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.0048 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00048 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	0.00010 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.0032 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.0054 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-14 Date Collected: 08/12/25 12:00 Matrix: Ground Water
Sample ID: MWT-36 Date Received: 08/13/25 07:43

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: T171738

Fluoride	0.89 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	33 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	6.0 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	330 mg/L	5.0	1	08/22/25	ans	08/22/25	ans	N	0.16
Carbonate Alkalinity as CaCO ₃ at pH 8.2	41 mg/L	5.0	1	08/22/25	ans	08/22/25	ans	N	0.16
Total Alkalinity as CaCO ₃ at pH 4.5	370 mg/L	5.0	1	08/22/25	ans	08/22/25	ans		0.16

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	450 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	<4.0 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	8.72 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01m	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-15 Date Collected: 08/12/25 10:30 Matrix: Ground Water
Sample ID: MW-37 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	1.8 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	4.0 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	140 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	0.90 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.016 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	11 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	20 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	49 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00017 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Arsenic	0.00073 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.070 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.00026 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00044 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	0.012 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.00052 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Molybdenum	0.0094 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.0037 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.0011 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.00039 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma	J	0.00028
Zinc	0.011 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-15 Date Collected: 08/12/25 10:30 Matrix: Ground Water
Sample ID: MW-37 Date Received: 08/13/25 07:43

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: T171738

Fluoride	0.60 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	15 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	230 mg/L	15	25	08/14/25	aeo	08/16/25	ch		1.4

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	330 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	330 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	720 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	<4.0 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	7.42 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01n	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-16 Date Collected: 08/12/25 11:00 Matrix: Ground Water
Sample ID: MW-38 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	21 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172097

Boron	2.1 mg/L	0.0088	1	08/22/25	jrc	08/26/25	cma		0.0051
Calcium	91 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	0.26 mg/L	0.050	1	08/22/25	jrc	08/26/25	cma		0.0075
Lithium	0.12 mg/L	0.0025	1	08/22/25	jrc	08/26/25	cma	N	0.0019
Magnesium	10 mg/L	0.10	1	08/22/25	jrc	08/26/25	cma		0.010
Potassium	75 mg/L	0.25	1	08/22/25	jrc	08/26/25	cma		0.036
Sodium	74 mg/L	0.12	1	08/22/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172097

Antimony	0.00031 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00010
Arsenic	0.0025 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.11 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.0044 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.00029 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Copper	0.00098 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.0053 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Molybdenum	0.0064 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.0038 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.00046 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/22/25	jrc	08/25/25	jma		0.000075
Vanadium	0.0081 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.0038 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-16 Date Collected: 08/12/25 11:00 Matrix: Ground Water
Sample ID: MW-38 Date Received: 08/13/25 07:43

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: T171738

Fluoride	1.2 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	34 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	120 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	260 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	260 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171713

Total Dissolved Solids	580 mg/L	40	4	08/14/25	cdj	08/14/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171712

Total Suspended Solids	<4.0 mg/L	4.0	1	08/14/25	cdj	08/14/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171730

pH	8.97 pH Units		1	08/12/25	gmr	08/13/25	cn	PH01k	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-17 Date Collected: 08/12/25 16:30 Matrix: Aqueous
Sample ID: LLHG-TB-08122025 Date Received: 08/13/25 07:43

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	<0.16	ng/L	0.20	1	08/18/25	jma	08/19/25	jma		0.16
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-18 Date Collected: 08/13/25 13:50 Matrix: Ground Water
Sample ID: MW-01R Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	0.52	ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	140	mg/L	0.18	20	08/21/25	jrc	08/27/25	cma		0.10
Calcium	170	mg/L	5.1	20	08/21/25	jrc	08/27/25	cma		0.74
Iron	0.059	mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	3.1	mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	90	mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	91	mg/L	5.0	20	08/21/25	jrc	08/27/25	cma		0.71
Sodium	440	mg/L	2.5	20	08/21/25	jrc	08/27/25	cma		1.8

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	0.00025	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.0015	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.55	mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	0.00031	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0025	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.0012	mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	0.00031	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	0.00063	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	0.00064	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00025
Nickel	0.0023	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00068	mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.0035	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00028
Zinc	0.028	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-18 Date Collected: 08/13/25 13:50 Matrix: Ground Water
Sample ID: MW-01R Date Received: 08/14/25 13:00

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: T171738

Fluoride	16 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	130 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	160 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	1500 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	1500 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	2400 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	<4.0 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.71 pH Units		1	08/13/25	nc	08/14/25	nc	H02, PH01o	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-19 Date Collected: 08/13/25 13:00 Matrix: Ground Water
Sample ID: MW-02 Date Received: 08/14/25 13:00

PARAMETERS	RESULTS UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL									
Analysis Method: EPA 1631E									
Batch: T171766									
Mercury	2.3 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
Analysis Method: EPA 200.7 Rev. 4.4									
Batch: T172097									
Boron	120 mg/L	0.18	20	08/22/25	jrc	08/26/25	cma		0.10
Calcium	170 mg/L	2.6	10	08/22/25	jrc	08/26/25	cma		0.37
Iron	22 mg/L	0.50	10	08/22/25	jrc	08/26/25	cma		0.075
Lithium	1.5 mg/L	0.025	10	08/22/25	jrc	08/26/25	cma	N	0.019
Magnesium	60 mg/L	0.50	10	08/22/25	jrc	08/26/25	cma		0.10
Potassium	49 mg/L	2.5	10	08/22/25	jrc	08/26/25	cma		0.36
Sodium	320 mg/L	1.2	10	08/22/25	jrc	08/26/25	cma		0.88
Analysis Method: EPA 200.8 Rev. 5.4									
Batch: T172097									
Antimony	0.00014 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.00010
Arsenic	0.0055 mg/L	0.00055	1	08/22/25	jrc	08/25/25	jma		0.00010
Barium	0.45 mg/L	0.0025	1	08/22/25	jrc	08/25/25	jma		0.00030
Beryllium	0.00016 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma	J	0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.000075
Chromium	0.033 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Cobalt	0.0056 mg/L	0.00052	1	08/22/25	jrc	08/25/25	jma		0.00010
Copper	0.0010 mg/L	0.00025	1	08/22/25	jrc	08/25/25	jma		0.00020
Lead	0.0012 mg/L	0.0028	5	08/22/25	jrc	08/25/25	jma	J	0.00050
Molybdenum	0.0052 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00025
Nickel	0.023 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00015
Selenium	0.0012 mg/L	0.00050	1	08/22/25	jrc	08/25/25	jma		0.00010
Silver	<0.000050 mg/L	0.000050	1	08/22/25	jrc	08/25/25	jma		0.000050
Thallium	<0.00038 mg/L	0.0019	5	08/22/25	jrc	08/25/25	jma		0.00038
Vanadium	0.0027 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00028
Zinc	0.0016 mg/L	0.0012	1	08/22/25	jrc	08/25/25	jma		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-19 Date Collected: 08/13/25 13:00 Matrix: Ground Water
Sample ID: MW-02 Date Received: 08/14/25 13:00

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: T171738

Fluoride	12 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	160 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	1.3 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch	J	0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	2300 mg/L	12	2.5	08/22/25	ans	08/22/25	ans	N	0.39
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.39 mg/L	12	2.5	08/22/25	ans	08/22/25	ans	N	0.39
Total Alkalinity as CaCO ₃ at pH 4.5	2300 mg/L	12	2.5	08/22/25	ans	08/22/25	ans		0.39

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	2000 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	18 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.26 pH Units		1	08/13/25	nc	08/14/25	nc	H02, PH01p	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-20 Date Collected: 08/13/25 14:50 Matrix: Ground Water
Sample ID: MW-03 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171766

Mercury	0.39 ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	4.1 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	360 mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	0.098 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.033 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	180 mg/L	0.50	10	08/21/25	jrc	08/27/25	cma		0.10
Potassium	18 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	85 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.00071 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.37 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	0.000074 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm	J	0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0040 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00070 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	0.00022 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm	J	0.00020
Lead	<0.00010 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	<0.00025 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0013 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00036 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.0015 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00028
Zinc	0.018 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-20 Date Collected: 08/13/25 14:50 Matrix: Ground Water
Sample ID: MW-03 Date Received: 08/14/25 13:00

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: T171738

Fluoride	0.83 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	110 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	130 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	1500 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	1500 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	1800 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	<4.0 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.52 pH Units		1	08/13/25	nc	08/14/25	nc	PH01q	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-21 Date Collected: 08/13/25 08:55 Matrix: Ground Water
Sample ID: MW-07 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	0.24	ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	10	mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	160	mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	19	mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.0066	mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	37	mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	4.5	mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	44	mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.00016	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Barium	0.38	mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.00031	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00097	mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.00016	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00015
Selenium	0.00012	mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050	mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00075	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.022	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-21 Date Collected: 08/13/25 08:55 Matrix: Ground Water
Sample ID: MW-07 Date Received: 08/14/25 13:00

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: T171738

Fluoride	<0.11 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	17 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	28 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	670 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	670 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	740 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	47 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	6.91 pH Units		1	08/13/25	nc	08/14/25	nc	H04, PH01r	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-22 Date Collected: 08/13/25 11:05 Matrix: Ground Water
Sample ID: MW-09 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	0.32 ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	5.5 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	500 mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	24 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.31 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	62 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	15 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	30 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.0022 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.12 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0021 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00024 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Copper	<0.00020 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	<0.00010 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	0.028 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0046 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00027 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00047 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.0071 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-22 Date Collected: 08/13/25 11:05 Matrix: Ground Water
Sample ID: MW-09 Date Received: 08/14/25 13:00

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: T171738

Fluoride	2.7 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	41 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	810 mg/L	30	50	08/14/25	aeo	08/16/25	ch		2.9

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	590 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	590 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	1900 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	64 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.04 pH Units		1	08/13/25	nc	08/14/25	nc	H04, PH01s	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-23 Date Collected: 08/13/25 16:15 Matrix: Ground Water
Sample ID: MW-12 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	1.0 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	0.44 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	69 mg/L	0.26	1	08/21/25	jrc	08/26/25	cma		0.037
Iron	0.40 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.0055 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	23 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	1.8 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	13 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	0.00024 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Arsenic	0.0052 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.11 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	0.011 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	<0.00020 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.0013 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	0.0018 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	0.00026 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Molybdenum	0.0083 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0062 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00028 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00096 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.023 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-23 Date Collected: 08/13/25 16:15 Matrix: Ground Water
Sample ID: MW-12 Date Received: 08/14/25 13:00

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: T171759

Fluoride	0.31 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	16 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	53 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	250 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	250 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	350 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	6.0 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.44 pH Units		1	08/13/25	nc	08/14/25	nc	H04, PH01u	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-24 Date Collected: 08/13/25 12:02 Matrix: Ground Water
Sample ID: MW-13 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	0.28 ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	1.2 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	310 mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	0.25 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.047 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	16 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	11 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	25 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.00025 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Barium	0.088 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0015 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	<0.00010 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	<0.00020 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	<0.00010 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	0.0028 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0024 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00010 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00064 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.0058 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-24 Date Collected: 08/13/25 12:02 Matrix: Ground Water
Sample ID: MW-13 Date Received: 08/14/25 13:00

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: T171759

Fluoride	0.73 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	10 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	480 mg/L	30	50	08/14/25	aeo	08/16/25	ch		2.9

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	370 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	370 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	1100 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	<4.0 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.61 pH Units		1	08/13/25	nc	08/14/25	nc	H04, PH01v	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-25 Date Collected: 08/13/25 10:44 Matrix: Ground Water
Sample ID: MW-16 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	0.43 ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	0.50 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	260 mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	0.99 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.027 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	26 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	5.6 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	25 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.0035 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.22 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0015 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00018 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Copper	<0.00020 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	<0.00010 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	<0.00025 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.00055 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00015
Selenium	0.00015 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.0010 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.013 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-25 Date Collected: 08/13/25 10:44 Matrix: Ground Water
Sample ID: MW-16 Date Received: 08/14/25 13:00

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: T171759

Fluoride	0.13 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	J, N	0.11
Chloride	23 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	8.7 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	710 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	710 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	790 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	<4.0 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	6.86 pH Units		1	08/13/25	nc	08/14/25	nc	H04, PH01w	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-26 Date Collected: 08/13/25 09:55 Matrix: Ground Water
Sample ID: MW-20 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E
Batch: T171768

Mercury	5.3 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4
Batch: T172027

Boron	1.4 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	150 mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	19 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.062 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	40 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	7.0 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	37 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4
Batch: T172027

Antimony	<0.00010 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.0019 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.67 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	<0.00020 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00091 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	0.00025 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	0.0022 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	0.0040 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0084 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	<0.00010 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm		0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	<0.00028 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00028
Zinc	0.058 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-26 Date Collected: 08/13/25 09:55 Matrix: Ground Water
Sample ID: MW-20 Date Received: 08/14/25 13:00

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: T171759

Fluoride	0.30 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	35 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	50 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	460 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	460 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	620 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	41 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.15 pH Units		1	08/13/25	nc	08/14/25	nc	H04, PH01x	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-27 Date Collected: 08/13/25 09:00 Matrix: Ground Water
Sample ID: MW-39 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	1.7	ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	1.4	mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	200	mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	6.0	mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.023	mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	33	mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	9.7	mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	25	mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	0.00013	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Arsenic	0.0012	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.11	mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	0.00013	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm	J	0.000075
Chromium	0.0069	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00037	mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Copper	0.00047	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	0.00015	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Molybdenum	0.00026	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00025
Nickel	0.0021	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00030	mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050	mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00097	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.0091	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-27 Date Collected: 08/13/25 09:00 Matrix: Ground Water
Sample ID: MW-39 Date Received: 08/14/25 13:00

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: T171759

Fluoride	0.49 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	13 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	48 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	580 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	580 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	710 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	14 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.52 pH Units		1	08/13/25	nc	08/14/25	nc	H04, PH01y	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-28 Date Collected: 08/13/25 16:45 Matrix: Ground Water
Sample ID: SG-07 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	0.93 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	0.088 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	48 mg/L	0.26	1	08/21/25	jrc	08/26/25	cma		0.037
Iron	0.15 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.0048 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	21 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	3.8 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	43 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	0.00020 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Arsenic	0.0023 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.055 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.00042 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00020 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Copper	0.0024 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	0.00040 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Molybdenum	0.0039 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0016 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00019 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00086 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.0060 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-28 Date Collected: 08/13/25 16:45 Matrix: Ground Water
Sample ID: SG-07 Date Received: 08/14/25 13:00

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: T171759

Fluoride	0.16 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	J, N	0.11
Chloride	79 mg/L	1.5	10	08/14/25	aeo	08/15/25	ch		1.2
Sulfate as SO ₄	45 mg/L	6.0	10	08/14/25	aeo	08/15/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	170 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	170 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	390 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	12 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	8.13 pH Units		1	08/13/25	nc	08/14/25	nc	PH01z	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-29 Date Collected: 08/13/25 16:55 Matrix: Aqueous
Sample ID: LLHG-TB-08132025 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E
Batch: T171768

Mercury	<0.16	ng/L	0.20	1	08/18/25	jma	08/19/25	jma		0.16
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-30 Date Collected: 08/14/25 07:40 Matrix: Ground Water
Sample ID: MW-10 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	0.37	ng/L	0.50	1	08/18/25	jma	08/19/25	jma	J	0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	28	mg/L	0.088	10	08/21/25	jrc	08/27/25	cma		0.051
Calcium	250	mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	3.4	mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.99	mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	76	mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	50	mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	440	mg/L	1.2	10	08/21/25	jrc	08/27/25	cma		0.88

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.0016	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.36	mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	0.00012	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm	J	0.000052
Cadmium	<0.000075	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0041	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00053	mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	0.0022	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.00092	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00015
Selenium	0.00034	mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050	mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.0012	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00028
Zinc	0.019	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-30 Date Collected: 08/14/25 07:40 Matrix: Ground Water
Sample ID: MW-10 Date Received: 08/14/25 13:00

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: T171759

Fluoride	6.2 mg/L	0.20	10	08/14/25	aeo	08/15/25	ch	N	0.11
Chloride	700 mg/L	7.5	50	08/14/25	aeo	08/16/25	ch		6.0
Sulfate as SO ₄	270 mg/L	30	50	08/14/25	aeo	08/16/25	ch		2.9

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	730 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	730 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	2300 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	<4.0 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.54 pH Units		1	08/14/25	nc	08/14/25	nc	PH01aa	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-31 Date Collected: 08/14/25 09:18 Matrix: Ground Water
Sample ID: MW-11 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	2.7 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	6.4 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	290 mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	10 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.057 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	55 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	13 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	49 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.0022 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.68 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0013 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00049 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Copper	0.00077 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	0.0089 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	0.0022 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0019 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00023 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00068 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.042 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-31 Date Collected: 08/14/25 09:18 Matrix: Ground Water
Sample ID: MW-11 Date Received: 08/14/25 13:00

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: T171759

Fluoride	0.64 mg/L	0.20	10	08/14/25	aeo	08/16/25	ch	N	0.11
Chloride	95 mg/L	1.5	10	08/14/25	aeo	08/16/25	ch		1.2
Sulfate as SO ₄	5.4 mg/L	6.0	10	08/14/25	aeo	08/16/25	ch	J	0.58

Analysis Method: SM 2320 B-21

Batch: T172131

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	880 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ans	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	880 mg/L	10	2	08/22/25	ans	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	1100 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	22 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.24 pH Units		1	08/14/25	nc	08/14/25	nc	PH01ab	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-32 Date Collected: 08/14/25 10:22 Matrix: Ground Water
Sample ID: MW-06 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	0.53 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	11 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	230 mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	6.2 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.19 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	90 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	26 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	85 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.00056 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	1.5 mg/L	0.0050	2	08/21/25	jrc	08/22/25	drm		0.00060
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0014 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00045 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Copper	0.00029 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	0.00023 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Molybdenum	<0.00025 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.00083 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00015
Selenium	0.00022 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00070 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.081 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-32 Date Collected: 08/14/25 10:22 Matrix: Ground Water
Sample ID: MW-06 Date Received: 08/14/25 13:00

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: T171759

Fluoride	1.5 mg/L	0.20	10	08/14/25	aeo	08/16/25	ch	N	0.11
Chloride	57 mg/L	1.5	10	08/14/25	aeo	08/16/25	ch		1.2
Sulfate as SO ₄	5.1 mg/L	6.0	10	08/14/25	aeo	08/16/25	ch	J	0.58

Analysis Method: SM 2320 B-21

Batch: T172138

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	1100 mg/L	10	2	08/22/25	ch	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ch	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	1100 mg/L	10	2	08/22/25	ch	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	1200 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	13 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.47 pH Units		1	08/14/25	nc	08/14/25	nc	PH01ac	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-33 Date Collected: 08/14/25 09:55 Matrix: Ground Water
Sample ID: MW-08 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	0.65	ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	7.2	mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	160	mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	10	mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.069	mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	28	mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	10	mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	80	mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	<0.00010	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00010
Arsenic	0.049	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	1.4	mg/L	0.0050	2	08/21/25	jrc	08/22/25	drm		0.00060
Beryllium	<0.000052	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.00043	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.00076	mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	0.00029	mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0047	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	<0.00010	mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00029	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.083	mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-33 Date Collected: 08/14/25 09:55 Matrix: Ground Water
Sample ID: MW-08 Date Received: 08/14/25 13:00

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: T171759

Fluoride	0.94 mg/L	0.20	10	08/14/25	aeo	08/16/25	ch	N	0.11
Chloride	110 mg/L	1.5	10	08/14/25	aeo	08/16/25	ch		1.2
Sulfate as SO ₄	32 mg/L	6.0	10	08/14/25	aeo	08/16/25	ch		0.58

Analysis Method: SM 2320 B-21

Batch: T172138

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	550 mg/L	10	2	08/22/25	ch	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ch	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	550 mg/L	10	2	08/22/25	ch	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	780 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	18 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	7.18 pH Units		1	08/14/25	nc	08/14/25	nc	PH01ad	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-34 Date Collected: 08/14/25 11:10 Matrix: Ground Water
Sample ID: MW-28 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	4.1 ng/L	0.50	1	08/18/25	jma	08/19/25	jma		0.16
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Analysis Method: EPA 200.7 Rev. 4.4

Batch: T172027

Boron	5.6 mg/L	0.0088	1	08/21/25	jrc	08/26/25	cma		0.0051
Calcium	210 mg/L	2.6	10	08/21/25	jrc	08/27/25	cma		0.37
Iron	47 mg/L	0.050	1	08/21/25	jrc	08/26/25	cma		0.0075
Lithium	0.13 mg/L	0.0025	1	08/21/25	jrc	08/26/25	cma	N	0.0019
Magnesium	28 mg/L	0.10	1	08/21/25	jrc	08/26/25	cma		0.010
Potassium	14 mg/L	0.25	1	08/21/25	jrc	08/26/25	cma		0.036
Sodium	74 mg/L	0.12	1	08/21/25	jrc	08/26/25	cma		0.088

Analysis Method: EPA 200.8 Rev. 5.4

Batch: T172027

Antimony	0.00018 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Arsenic	0.0038 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Barium	0.75 mg/L	0.0025	1	08/21/25	jrc	08/22/25	drm		0.00030
Beryllium	<0.000052 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000052
Cadmium	<0.000075 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.000075
Chromium	0.0093 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Cobalt	0.0013 mg/L	0.00052	1	08/21/25	jrc	08/22/25	drm		0.00010
Copper	0.00055 mg/L	0.00025	1	08/21/25	jrc	08/22/25	drm		0.00020
Lead	0.0041 mg/L	0.00055	1	08/21/25	jrc	08/22/25	drm		0.00010
Molybdenum	0.0021 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00025
Nickel	0.0017 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00015
Selenium	0.00026 mg/L	0.00050	1	08/21/25	jrc	08/22/25	drm	J	0.00010
Silver	<0.000050 mg/L	0.000050	1	08/21/25	jrc	08/22/25	drm		0.000050
Thallium	<0.000075 mg/L	0.00038	1	08/21/25	jrc	08/22/25	drm		0.000075
Vanadium	0.00071 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm	J	0.00028
Zinc	0.047 mg/L	0.0012	1	08/21/25	jrc	08/22/25	drm		0.00048

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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-34 Date Collected: 08/14/25 11:10 Matrix: Ground Water
Sample ID: MW-28 Date Received: 08/14/25 13:00

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: T171759

Fluoride	1.4 mg/L	0.20	10	08/14/25	aeo	08/16/25	ch	N	0.11
Chloride	170 mg/L	1.5	10	08/14/25	aeo	08/16/25	ch		1.2
Sulfate as SO ₄	0.67 mg/L	6.0	10	08/14/25	aeo	08/16/25	ch	J	0.58

Analysis Method: SM 2320 B-21

Batch: T172138

Bicarbonate Alkalinity as CaCO ₃ at pH 4.5	590 mg/L	10	2	08/22/25	ch	08/22/25	ans	N	0.31
Carbonate Alkalinity as CaCO ₃ at pH 8.2	<0.31 mg/L	10	2	08/22/25	ch	08/22/25	ans	N	0.31
Total Alkalinity as CaCO ₃ at pH 4.5	590 mg/L	10	2	08/22/25	ch	08/22/25	ans		0.31

Analysis Method: SM 2540 C-20

Batch: T171793

Total Dissolved Solids	920 mg/L	40	4	08/15/25	cdj	08/15/25	cdj		
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Analysis Method: SM 2540 D-20

Batch: T171790

Total Suspended Solids	110 mg/L	4.0	1	08/15/25	cdj	08/15/25	cdj		4.0
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Analysis Method: SM 4500-H+ B-11

Batch: T171821

pH	6.89 pH Units		1	08/14/25	nc	08/14/25	nc	PH01ae	
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ANALYTICAL RESULTS

Trace Project ID: 25H0691
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 25H0691-35 Date Collected: 08/14/25 11:50 Matrix: Aqueous
Sample ID: LLHG-TB-08142025 Date Received: 08/14/25 13:00

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

Analysis Method: EPA 1631E

Batch: T171768

Mercury	<0.16	ng/L	0.20	1	08/18/25	jma	08/19/25	jma		0.16
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QUALITY CONTROL RESULTS

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171766

Analysis Description: Mercury, Total, Low Level

QC Batch Method: EPA 1631E

Analysis Method: EPA 1631E

METHOD BLANK: T171766-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T171766-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T171766-BLK3

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

LABORATORY CONTROL SAMPLE: T171766-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	ng/L	5.00	5.59	112	77-123	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T171766-MSD1

Original: 25H0691-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	0.214	10.0	11.0	11.1	108	109	71-125	0.2	24	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T171766-MSD2

Original: 25H0691-02

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	0	10.0	11.2	11.2	112	112	71-125	0	24	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171768

Analysis Description: Mercury, Total, Low Level

QC Batch Method: EPA 1631E

Analysis Method: EPA 1631E

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METHOD BLANK: T171768-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T171768-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T171768-BLK3

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

LABORATORY CONTROL SAMPLE: T171768-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	ng/L	5.00	5.59	112	77-123	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T171768-MSD1

Original: 25H0691-21

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	0.243	10.0	10.8	10.9	106	107	71-125	0.7	24	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T171768-MSD2

Original: 25H0691-22

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	0.321	10.0	10.5	10.6	102	103	71-125	1	24	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T172027

Analysis Description: Potassium, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T172027-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	

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METHOD BLANK: T172027-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Lithium	mg/L	<0.0025	0.0025	
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T172027-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	0.160	0.153	95	85-115	
Calcium	mg/L	16.0	14.5	91	85-115	
Iron	mg/L	16.0	15.9	99	85-115	
Potassium	mg/L	16.0	15.6	97	85-115	
Lithium	mg/L	1.60	1.61	101	85-115	
Magnesium	mg/L	16.0	15.2	95	85-115	
Sodium	mg/L	16.0	15.1	94	85-115	

MATRIX SPIKE: T172027-MS2 Original: **25H0691-18**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	143	0.160	146	2150	70-130	MS09
Calcium	mg/L	169	16.0	165	-24	70-130	MS09
Iron	mg/L	0.0586	16.0	15.5	97	70-130	
Potassium	mg/L	91.3	16.0	109	113	70-130	
Lithium	mg/L	3.10	1.60	4.59	93	70-130	
Magnesium	mg/L	90.0	16.0	111	130	70-130	
Sodium	mg/L	437	16.0	470	204	70-130	MS09

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T172097

Analysis Description: Boron, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T172097-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	

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METHOD BLANK: T172097-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T172097-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	0.160	0.137	86	85-115	
Calcium	mg/L	16.0	15.4	96	85-115	
Iron	mg/L	16.0	15.8	99	85-115	
Potassium	mg/L	16.0	15.6	98	85-115	
Lithium	mg/L	1.60	1.58	99	85-115	
Magnesium	mg/L	16.0	15.7	98	85-115	
Sodium	mg/L	16.0	15.6	97	85-115	

MATRIX SPIKE: T172097-MS1

Original: 25H0691-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	3.99	0.160	3.99	5	70-130	MS09
Calcium	mg/L	368	16.0	375	44	70-130	MS09
Iron	mg/L	5.10	16.0	20.7	98	70-130	
Potassium	mg/L	21.7	16.0	36.3	91	70-130	
Lithium	mg/L	0.0599	1.60	1.72	103	70-130	
Magnesium	mg/L	122	16.0	133	68	70-130	MS09
Sodium	mg/L	67.7	16.0	81.2	85	70-130	

MATRIX SPIKE: T172097-MS2

Original: 25H0691-02

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	1.99	0.160	2.16	106	70-130	
Calcium	mg/L	606	16.0	660	332	70-130	MS09
Iron	mg/L	4.54	16.0	20.2	98	70-130	
Potassium	mg/L	18.6	16.0	34.7	101	70-130	
Lithium	mg/L	0.185	1.60	1.81	102	70-130	
Magnesium	mg/L	147	16.0	168	133	70-130	MS09
Sodium	mg/L	326	16.0	360	211	70-130	MS09

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

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QC Batch: T172027

Analysis Description: Beryllium, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T172027-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: T172027-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	0.0562	112	85-115	
Arsenic	mg/L	0.100	0.0992	99	85-115	
Barium	mg/L	1.60	1.81	113	85-115	
Beryllium	mg/L	0.200	0.188	94	85-115	
Cadmium	mg/L	0.0500	0.0516	103	85-115	
Cobalt	mg/L	1.60	1.47	92	85-115	
Chromium	mg/L	0.0500	0.0475	95	85-115	
Copper	mg/L	1.60	1.47	92	85-115	
Molybdenum	mg/L	1.60	1.68	105	85-115	
Nickel	mg/L	1.60	1.48	93	85-115	
Lead	mg/L	0.100	0.103	103	85-115	
Antimony	mg/L	0.100	0.105	105	85-115	
Selenium	mg/L	0.100	0.0978	98	85-115	
Thallium	mg/L	0.100	0.103	103	85-115	
Vanadium	mg/L	1.60	1.57	98	85-115	

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LABORATORY CONTROL SAMPLE: T172027-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Zinc	mg/L	1.60	1.51	94	85-115	

MATRIX SPIKE: T172027-MS2 Original: **25H0691-18**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0526	105	70-130	
Arsenic	mg/L	0.00154	0.100	0.101	99	70-130	
Barium	mg/L	0.547	1.60	2.49	122	70-130	
Beryllium	mg/L	0.000313	0.200	0.203	101	70-130	
Cadmium	mg/L	0	0.0500	0.0549	110	70-130	
Cobalt	mg/L	0.00125	1.60	1.60	100	70-130	
Chromium	mg/L	0.00246	0.0500	0.0527	100	70-130	
Copper	mg/L	0	1.60	1.44	90	70-130	
Molybdenum	mg/L	0	1.60	1.85	116	70-130	
Nickel	mg/L	0.00225	1.60	1.54	96	70-130	
Lead	mg/L	0.000629	0.100	0.110	109	70-130	
Antimony	mg/L	0	0.100	0.108	108	70-130	
Selenium	mg/L	0.000682	0.100	0.0801	79	70-130	
Thallium	mg/L	0	0.100	0.111	111	70-130	
Vanadium	mg/L	0.00349	1.60	1.72	107	70-130	
Zinc	mg/L	0.0282	1.60	1.41	86	70-130	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T172097

Analysis Description: Lead, Total

QC Batch Method: EPA 200.2

Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T172097-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	0.000440	0.0012	J

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METHOD BLANK: T172097-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
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	0.00114	0.0012	J

LABORATORY CONTROL SAMPLE: T172097-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	0.0571	114	85-115	
Arsenic	mg/L	0.100	0.0999	100	85-115	
Barium	mg/L	1.60	1.58	99	85-115	
Beryllium	mg/L	0.200	0.207	104	85-115	
Cadmium	mg/L	0.0500	0.0534	107	85-115	
Cobalt	mg/L	1.60	1.52	95	85-115	
Chromium	mg/L	0.0500	0.0507	101	85-115	
Copper	mg/L	1.60	1.47	92	85-115	
Molybdenum	mg/L	1.60	1.57	98	85-115	
Nickel	mg/L	1.60	1.53	96	85-115	
Lead	mg/L	0.100	0.101	101	85-115	
Antimony	mg/L	0.100	0.104	104	85-115	
Selenium	mg/L	0.100	0.0985	99	85-115	
Thallium	mg/L	0.100	0.100	100	85-115	
Vanadium	mg/L	1.60	1.52	95	85-115	
Zinc	mg/L	1.60	1.81	113	85-115	

MATRIX SPIKE: T172097-MS1

Original: 25H0691-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0553	111	70-130	
Arsenic	mg/L	0.00100	0.100	0.106	105	70-130	
Barium	mg/L	0.148	1.60	2.20	128	70-130	
Beryllium	mg/L	0	0.200	0.212	106	70-130	
Cadmium	mg/L	0	0.0500	0.0527	105	70-130	
Cobalt	mg/L	0	1.60	1.60	100	70-130	
Chromium	mg/L	0.00378	0.0500	0.0607	114	70-130	

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MATRIX SPIKE: T172097-MS1 Original: **25H0691-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Copper	mg/L	0	1.60	1.46	91	70-130	
Molybdenum	mg/L	0.00113	1.60	1.65	103	70-130	
Nickel	mg/L	0.0127	1.60	1.56	97	70-130	
Lead	mg/L	0	0.100	0.107	107	70-130	
Antimony	mg/L	0	0.100	0.102	102	70-130	
Selenium	mg/L	0	0.100	0.100	100	70-130	
Thallium	mg/L	0	0.100	0.108	108	70-130	
Vanadium	mg/L	0	1.60	1.81	113	70-130	
Zinc	mg/L	0	1.60	1.71	107	70-130	

MATRIX SPIKE: T172097-MS2 Original: **25H0691-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0529	106	70-130	
Arsenic	mg/L	0.00112	0.100	0.102	101	70-130	
Barium	mg/L	0.0617	1.60	2.15	130	70-130	
Beryllium	mg/L	0	0.200	0.221	110	70-130	
Cadmium	mg/L	0	0.0500	0.0491	98	70-130	
Cobalt	mg/L	0.000469	1.60	1.60	100	70-130	
Chromium	mg/L	0.00803	0.0500	0.0662	116	70-130	
Copper	mg/L	0	1.60	1.42	88	70-130	
Molybdenum	mg/L	0.00117	1.60	1.67	104	70-130	
Nickel	mg/L	0.00133	1.60	1.51	95	70-130	
Lead	mg/L	0	0.100	0.108	108	70-130	
Antimony	mg/L	0	0.100	0.0961	96	70-130	
Selenium	mg/L	0	0.100	0.0961	96	70-130	
Thallium	mg/L	0	0.100	0.110	110	70-130	
Vanadium	mg/L	0	1.60	1.90	119	70-130	
Zinc	mg/L	0	1.60	1.61	100	70-130	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171738

Analysis Description: Chloride

QC Batch Method: IC Prep W

Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T171738-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
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METHOD BLANK: T171738-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: T171738-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	mg/L	5.00	<10	102	90-110	J
Fluoride	mg/L	1.00	0.991	99	90-110	
Sulfate as SO4	mg/L	5.00	5.13	103	90-110	

MATRIX SPIKE: T171738-MS1 Original: **25H0691-03**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	53.1	50.0	108	110	80-120	
Fluoride	mg/L	1.50	10.0	13.3	118	80-120	
Sulfate as SO4	mg/L	6.40	50.0	61.2	110	80-120	

MATRIX SPIKE: T171738-MS2 Original: **25H0691-05**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	35.7	50.0	88.5	106	80-120	
Fluoride	mg/L	0.655	10.0	11.0	104	80-120	
Sulfate as SO4	mg/L	0.787	50.0	52.4	103	80-120	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171759

Analysis Description: Chloride

QC Batch Method: IC Prep W

Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T171759-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: T171759-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
-----------	-------	-------------	------------	-----------	-------------	-------

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LABORATORY CONTROL SAMPLE: T171759-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	mg/L	5.00	<10	102	90-110	J
Fluoride	mg/L	1.00	0.987	99	90-110	
Sulfate as SO4	mg/L	5.00	5.13	103	90-110	

MATRIX SPIKE: T171759-MS1 Original: **25H0691-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	16.0	50.0	67.3	103	80-120	
Fluoride	mg/L	0.309	10.0	10.6	103	80-120	
Sulfate as SO4	mg/L	53.2	50.0	106	105	80-120	

MATRIX SPIKE: T171759-MS2 Original: **25H0691-25**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	22.7	50.0	74.7	104	80-120	
Fluoride	mg/L	0.133	10.0	10.5	103	80-120	
Sulfate as SO4	mg/L	8.68	50.0	59.8	102	80-120	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T172085

Analysis Description: Alkalinity, Carbonate

QC Batch Method: SM 2320 B-21

Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T172085-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100	92.5	92	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100	92.5	92	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100	92.5	92	88-112	

SAMPLE DUPLICATE: T172085-DUP1 Original: **25H0691-01**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	799	794	0.7	20	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	0	<5.0		20	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	799	794	0.7	20	

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Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T172131

QC Batch Method: SM 2320 B-21

Analysis Description: Alkalinity, Bicarbonate

Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T172131-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100	93.4	93	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100	93.4	93	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100	93.4	93	88-112	

SAMPLE DUPLICATE: T172131-DUP1

Original: 25H0691-28

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	169	176	4	20	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	0	176		20	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	169	176	4	20	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T172138

QC Batch Method: SM 2320 B-21

Analysis Description: Alkalinity, Total

Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T172138-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100	93.4	93	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100	93.4	93	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100	93.4	93	88-112	

SAMPLE DUPLICATE: T172138-DUP1

Original: 25H0691-32

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	1120	1170	5	20	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	0	<10		20	

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SAMPLE DUPLICATE: T172138-DUP1

Original: **25H0691-32**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Alkalinity as CaCO ₃ at pH 4.5	mg/L	1120	1170	5	20	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171713

Analysis Description: Total Dissolved Solids

QC Batch Method: SM 2540 C-20

Analysis Method: SM 2540 C-20

METHOD BLANK: T171713-BLK1

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

LABORATORY CONTROL SAMPLE: T171713-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: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171793

Analysis Description: Total Dissolved Solids

QC Batch Method: SM 2540 C-20

Analysis Method: SM 2540 C-20

METHOD BLANK: T171793-BLK1

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

LABORATORY CONTROL SAMPLE: T171793-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500	486	97	80-120	

SAMPLE DUPLICATE: T171793-DUP1

Original: **25H0691-33**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	780	780	0	10	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

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QC Batch: T171712

QC Batch Method: SM 2540 D-20

Analysis Description: Total Suspended Solids

Analysis Method: SM 2540 D-20

METHOD BLANK: T171712-BLK1

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

LABORATORY CONTROL SAMPLE: T171712-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100	94.0	94	85-115	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171790

QC Batch Method: SM 2540 D-20

Analysis Description: Total Suspended Solids

Analysis Method: SM 2540 D-20

METHOD BLANK: T171790-BLK1

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

LABORATORY CONTROL SAMPLE: T171790-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100	94.0	94	85-115	

SAMPLE DUPLICATE: T171790-DUP1

Original: 25H0691-31

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Suspended Solids	mg/L	22.0	21.0	5	10	

Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171730

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

Analysis Description: pH, SM 4500

Analysis Method: SM 4500-H+ B-11

SAMPLE DUPLICATE: T171730-DUP1

Original: 25H0691-01

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	pH Units	7.25	7.25	0	20	PH01a

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Trace Project ID: 25H0691

Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T171821

Analysis Description: pH, SM 4500

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

Analysis Method: SM 4500-H+ B-11

SAMPLE DUPLICATE: T171821-DUP1

Original: **25H0691-22**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	pH Units	7.04	7.01	0.4	20	PH01t

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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: 25H0691-01

Analysis: SM 4500-H+ B-11

pH	Note H02 : The sample result and reporting limit must be considered estimated. The analysis was performed beyond the analyte EPA established hold time .
pH	Note PH01 : The pH was analyzed at 10:02

Trace ID: 25H0691-02

Analysis: SM 4500-H+ B-11

pH	Note H02 : The sample result and reporting limit must be considered estimated. The analysis was performed beyond the analyte EPA established hold time .
pH	Note PH01b : The pH was analyzed at 10:06

Trace ID: 25H0691-03

Analysis: SM 4500-H+ B-11

pH	Note H02 : The sample result and reporting limit must be considered estimated. The analysis was performed beyond the analyte EPA established hold time .
pH	Note PH01c : The pH was analyzed at 10:16

Trace ID: 25H0691-05

Analysis: SM 4500-H+ B-11

pH	Note PH01d : The pH was analyzed at 10:18
----	---

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Trace ID: 25H0691-06

Analysis: SM 4500-H+ B-11

pH Note PH01e : The pH was analyzed at 10:20

Trace ID: 25H0691-07

Analysis: SM 4500-H+ B-11

pH Note PH01f : The pH was analyzed at 10:23

Trace ID: 25H0691-08

Analysis: SM 4500-H+ B-11

pH Note PH01g : The pH was analyzed at 10:25

Trace ID: 25H0691-09

Analysis: SM 4500-H+ B-11

pH Note PH01h : The pH was analyzed at 10:28

Trace ID: 25H0691-10

Analysis: SM 4500-H+ B-11

pH Note H02 : The sample result and reporting limit must be considered estimated. The analysis was performed beyond the analyte EPA established hold time .

pH Note PH01i : The pH was analyzed at 10:29

Trace ID: 25H0691-11

Analysis: SM 4500-H+ B-11

pH Note H02 : The sample result and reporting limit must be considered estimated. The analysis was performed beyond the analyte EPA established hold time .

pH Note PH01j : The pH was analyzed at 10:30

Trace ID: 25H0691-12

Analysis: SM 4500-H+ B-11

pH Note PH01k : The pH was analyzed at 10:33

Trace ID: 25H0691-13

Analysis: SM 4500-H+ B-11

pH Note PH01l : The pH was analyzed at 10:34

Trace ID: 25H0691-14

Analysis: SM 4500-H+ B-11

pH Note PH01m : The pH was analyzed at 10:35

Trace ID: 25H0691-15

Analysis: SM 4500-H+ B-11

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pH	Note PH01n : The pH was analyzed at 10:36
----	---

Trace ID: 25H0691-16

Analysis: SM 4500-H+ B-11

pH	Note PH01k : The pH was analyzed at 10:33
----	---

Trace ID: 25H0691-18

Analysis: SM 4500-H+ B-11

pH	Note H02 : The sample result and reporting limit must be considered estimated. The analysis was performed beyond the analyte EPA established hold time .
----	--

pH	Note PH01o : The pH was analyzed at 14:36
----	---

Trace ID: 25H0691-19

Analysis: SM 4500-H+ B-11

pH	Note H02 : The sample result and reporting limit must be considered estimated. The analysis was performed beyond the analyte EPA established hold time .
----	--

pH	Note PH01p : The pH was analyzed at 14:39
----	---

Trace ID: 25H0691-20

Analysis: SM 4500-H+ B-11

pH	Note PH01q : The pH was analyzed at 14:42
----	---

Trace ID: 25H0691-21

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 PH01r : The pH was analyzed at 14:44
----	---

Trace ID: 25H0691-22

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 PH01s : The pH was analyzed at 14:50
----	---

Trace ID: 25H0691-23

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 PH01u : The pH was analyzed at 15:01
----	---

Trace ID: 25H0691-24

Analysis: SM 4500-H+ B-11

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pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time. The result must be considered estimated.
----	--

pH	Note PH01v : The pH was analyzed at 15:03
----	---

Trace ID: 25H0691-25

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 PH01w : The pH was analyzed at 15:04
----	---

Trace ID: 25H0691-26

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 PH01x : The pH was analyzed at 15:05
----	---

Trace ID: 25H0691-27

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 PH01y : The pH was analyzed at 15:08
----	---

Trace ID: 25H0691-28

Analysis: SM 4500-H+ B-11

pH	Note PH01z : The pH was analyzed at 15:10
----	---

Trace ID: 25H0691-30

Analysis: SM 4500-H+ B-11

pH	Note PH01aa : The pH was analyzed at 15:11
----	--

Trace ID: 25H0691-31

Analysis: SM 4500-H+ B-11

pH	Note PH01ab : The pH was analyzed at 15:12
----	--

Trace ID: 25H0691-32

Analysis: SM 4500-H+ B-11

pH	Note PH01ac : The pH was analyzed at 15:14
----	--

Trace ID: 25H0691-33

Analysis: SM 4500-H+ B-11

pH	Note PH01ad : The pH was analyzed at 15:15
----	--

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Trace ID: 25H0691-34

Analysis: SM 4500-H+ B-11

pH Note PH01ae : The pH was analyzed at 15:16

Trace ID: T171730-DUP1

Analysis: SM 4500-H+ B-11

pH Note PH01a : The pH was analyzed at 10:04

Trace ID: T171821-DUP1

Analysis: SM 4500-H+ B-11

pH Note PH01t : The pH was analyzed at 14:51

Trace ID: T172027-MS2

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.

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: T172097-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.

Trace ID: T172097-MS2

Analysis: EPA 200.7 Rev. 4.4

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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Trace ID No.
25H0691

Page 1 of 2

Report Results To:

Bill To:

Trace Use:

Company Name: HDR	PO #: 10331505006
Report To: Andrew Byles / Molly Reeves	Contact Name: Lera Zawaidah
Mailing Address: ON FILE	Billing Address (if different): ON FILE
City, State, Zip Code:	City, State, Zip Code:
Office Phone:	Cell Phone:
Email Address:	Billing Email Address:

Logged By: MS
Checked By: Jie
Soil Vials Preserved (circle if applicable):
MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

Matrix Key:

W = Wipes

LW = Liquid Waste

Part 115 Metals

Elv3i Hg - low level

TSS

Analysis Requested

Remarks

Possible Health Hazards?

*Results provided end of business day, requires prior approval.

S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
D = Drinking Water

Project Name: Grand Haven Harbor Island	Sampled By: AS/FDR									
Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y/N)	Matrix	Number of Containers	Preservation	Analysis Requested	Remarks	
1	8/11/25	1610	MW-04	N	W	4	2	40 CFR Part 257 App IV		
2	8/11/25	1420	MW-30	N	W	4	2	40 CFR Part 257 App IV		
3	8/11/25	1530	MW-32	N	W	4	2	Part 115 Metals		
4	8/11/25	1630	LHG-TB-08112025	N	W	4	2	Elv3i Hg - low level		
5	8/12/25	1115	MW-17	N	W	4	2	TSS	1 bottle	
6	8/12/25	1250	MW-18	N	W	4	2			
7	8/12/25	1405	MW-19	N	W	4	2			
8	8/12/25	1532	MW-27	N	W	4	2			
9	8/12/25	1000	MW-31	N	W	4	2			
10	8/12/25	0604	MW-33	N	W	4	2			
Released By: Jie				Date: 8.13	Time: 7:42	Received By: Jie				Date: 8.13

Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads. Form 70-Z.1

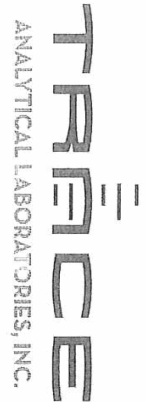
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Page 2 of 2

Trace ID No.

25H0691

Report Results To:

Bill To:

Trace Use:

Company Name: HDR	PO #: 10837505 006
Report To: Andrew Byles/Molly Reeves	Contact Name: Lara Zawadowski
Mailing Address: DN FILE	Billing Address (if different): DN FILE
City, State, Zip Code:	City, State, Zip Code:
Office Phone:	Phone Number:
Email Address:	Billing Email Address:

Logged By: MS
Checked By: AC
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

Matrix Key:

☒ Standard 5-10 Days
☐ 3 Day*
☐ 1 Day*
S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

*Results provided end of business day, requires prior approval.

Project Name: Grand Haven Harbor Island		Sampled By: AB/FDR	
Trace No.	Date Collected	Time Collected	Client Sample ID
11	8/12/25	0804	MWT-33
12	8/12/25	1412	MW-34
13	8/12/25	1200	MW-36
14	8/12/25	1200	MWT-36
15	8/12/25	1030	MW-37
16	8/12/25	1100	MW-38
17	8/12/25	1630	LLHG-TB-08122025
Metals Field Filtered (Y / N)			
Matrix			
Number of Containers			
Preservation			
Cool			
HCl			
HNO ₃			
H ₂ SO ₄			
NaOH			
Other			
40 CFR P. 267 App III			
40 CFR P. 267 App IV			
Part 115 Metals			
Low Level Hg El631			
TSS			
Analysis Requested			
Remarks			
Possible Health Hazards?			

Please Sign

Released By: Andrew Byles

Received By: Molly Reeves

Date: 8-13

Time: 2:12 PM

Released By:

Received By:

Date:

Time:

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Form 70-Z.1

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



CHAIN-OF-CUSTODY RECORD

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2241 Black Creek Road
Muskegon, MI 49444-2673
Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.
25H0855
014
5A

Page 1 of 2

Report Results To:

Bill To:

Trace Use:

Company Name: HDR

PO #: 10337505.0060

Logged By: MT

Report To: Andrew Byks / Molly Reeves

Contact Name: Lara Zarnich

Checked By: NJ

Mailing Address: ON FILE

Billing Address (if different): ON FILE

Soil Volatiles Preserved (circle if applicable):
MeOH Low Level Lab

City, State, Zip Code:

City, State, Zip Code:

Sampling Time:

Office Phone:

Phone Number:

Sampling Time:

Email Address:

Billing Email Address:

Turnaround Requirements:

Matrix Key:

Analysis Requested

☒ Standard, 5-10 Days
☐ 3 Day*
☐ 1 Day*

*Results provided end of business day, requires prior approval.

S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

Project Name: Grand Haven Harbor Island

Sampled By: AB/EDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation	Analysis Requested	Remarks
18	8/13/25	1350	MW-01R	N	W	4	2	40 CFR Part 257 App III	
19	8/13/25	1300	MW-02	N	W	4	2	40 CFR Part 257 App IV	
20	8/13/25	1450	MW-03	N	W	4	2	Part 115 Metals	
21	8/13/25	0855	MW-07	N	W	4	2	E1631 - Low Level Hg	
22	8/13/25	1105	MW-09	N	W	4	2	TSS	
23	8/13/25	1015	MW-12	N	W	4	2		
24	8/13/25	1202	MW-13	N	W	4	2		
25	8/13/25	1044	MW-16	N	W	4	2		
26	8/13/25	0955	MW-20	N	W	4	2		
27	8/13/25	0900	MW-39	N	W	4	2		
Released By: Andrew Byks				Received By: [Signature]		Date: 8/14/25		Time: 2	
3)				4)					

Please Sign

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Form 70-Z.1

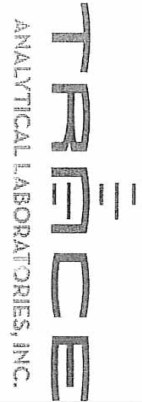
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Trace ID No. 25H0855
814-25

Page 2 of 2

Report Results To:

Company Name: HDR

Report To: Andrew Byks/Molly Reeves

Mailing Address: ON FILE

City, State, Zip Code:

Office Phone:

Email Address:

Bill To:

PO # 10337505.006

Contact Name: Lara Zavaradan

Billing Address (if different): ON FILE

City, State, Zip Code:

Phone Number:

Billing Email Address:

Trace Use:

Logged By: MJ

Checked By: MJ

Soil Volatiles Preserved (circle if applicable):
MeOH Low Level Lab

Sampling Time:

Turnaround Requirements:

- ☐ Standard, 5-10 Days
☐ 3 Day*
☐ 1 Day*

*Results provided end of business day, requires prior approval.

Matrix Key:

- S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

Project Name:

Sampled By:

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation										Released By	Date	Time	Released By	Date	Time
							Cool	HCl	HNO ₃	H ₂ SO ₄	NaOH	Other										
28	8/13/25	1645	SA-01	N	W	4	4	2														
29	8/13/25	1655	LHG-TB-08132025	N	W	1	1															
30	8/14/25	0740	MW-10	N	W	4	4	2														
31	8/14/25	0918	MW-11	N	W	4	4	2														
32	8/14/25	1022	MW-06	N	W	4	4	2														
33	8/14/25	0955	MW-08	N	W	4	4	2														
34	8/14/25	1110	MW-28	N	W	4	4	2														
35	8/14/25	1150	LHG-TB-08142025	N	W	4	4	2														

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) Ben G. Kov	2) [Signature]	8/14/25		3) [Signature]	4) [Signature]		

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☐

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25H0691

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/13/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 8:40										
Initials: CN										
Package Description: Cooler										
Package Temp °C	0.9	0.7	x							
Representative Sample Temp °C	3.9	3.7	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: HC331173) ☐ 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:

HDR MW-33, 30, 04, 32 MW-LLHG TB LLHG

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25H0691
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/13/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 8:31										
Initials: CN										
Package Description: Cooler										
Package Temp °C	0.9	0.7	x							
Representative Sample Temp °C	5.1	4.9	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: HC331173) ☐ 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:

HDR MW-33, 34, 27, 33, 27, 27, 34

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25H0691
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/13/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 8:35										
Initials: CM										
Package Description: Cooler										
Package Temp °C	0.0	-0.2	x							
Representative Sample Temp °C	3.9	3.7	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: HC331173)
☐	☐	☐	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:

HDR-MW-19, 31, 32, 37, 36, 38, 39, 36, 36, 37

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25H0691

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/13/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 8:30										
Initials: CN										
Package Description: Cooler										
Package Temp °C	0.0	-0.2	x							
Representative Sample Temp °C	4.6	4.4	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: HC331173)

☐ 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:

HDR - MW-17, 19, 31, 17, 18, 18

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25H0691

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 1300										
Initials: m5										
Package Description: Cooler										
Package Temp °C	0.0	0.0								
Representative Sample Temp °C	21.6	21.6								

Sample Receipt

Yes No

☒ ☐ Received on ice or other coolant

☒ ☐ Ice still present upon receipt

☐ ☒ Custody seals present

☒ Trace Courier
m5 8/14/25

☒ 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: HC331173)

☐ 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-13

MW-16

MW-39

LLHG-TB-08132025

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25H0691
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 13:00										
Initials: m5										
Package Description: Cooler										
Package Temp °C	0.0	0.0								
Representative Sample Temp °C	5.7	5.7								

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: HC331173) ☐ 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:

Form 70-A.58
Effective 5/29/25

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25H0691

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 1300										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.0	0.0								
Representative Sample Temp °C	11.3	11.3								

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: HC331173) ☐ 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-28
MW-20
MW-09

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25H0691

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 1300										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.2	0.0								
Representative Sample Temp °C	11.2	11.0								

Sample Receipt

Yes No

☒ ☐ Received on ice or other coolant

☒ ☐ Ice still present upon receipt

☐ ☒ Custody seals present

☒ Trace Courier
MJ 8/14/25

☒ 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: HC331173)

☐ 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-03

MW-12

SG-07

MW-08

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25H0691
HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/05	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 1300										
Initials: m.j										
Package Description: Cooler										
Package Temp °C	0.2	0.0	/							
Representative Sample Temp °C	21.3	21.1	/							

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: HC331173) ☐ 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-06
MW-012
MW-10
MW-11

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September 24, 2025

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

RE: Trace Project 25H0692
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.

The results were obtained from Eurofins Eaton East Analytical.

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", with a stylized flourish at the end.

Jon Mink
Senior Project Manager

Enclosures

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



231-773-5998 Phone
888-979-4469 Fax
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SAMPLE SUMMARY

Trace Project ID: 25H0692
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
25H0692-01	MW-04	Aqueous	AB/FDR	08/11/25 16:10	08/13/25 07:45
25H0692-02	MW-30	Aqueous	AB/FDR	08/11/25 14:20	08/13/25 07:45
25H0692-03	MW-32	Aqueous	AB/FDR	08/11/25 15:30	08/13/25 07:45
25H0692-04	MW-17	Aqueous	AB/FDR	08/12/25 11:15	08/13/25 07:45
25H0692-05	MW-18	Aqueous	AB/FDR	08/12/25 12:50	08/13/25 07:45
25H0692-06	MW-19	Aqueous	AB/FDR	08/12/25 14:05	08/13/25 07:45
25H0692-07	MW-27	Aqueous	AB/FDR	08/12/25 15:32	08/13/25 07:45
25H0692-08	MW-31	Aqueous	AB/FDR	08/12/25 10:00	08/13/25 07:45
25H0692-09	MW-33	Aqueous	AB/FDR	08/12/25 08:04	08/13/25 07:45
25H0692-10	MWT-33	Aqueous	AB/FDR	08/12/25 08:04	08/13/25 07:45
25H0692-11	MW-34	Aqueous	AB/FDR	08/12/25 14:12	08/13/25 07:45
25H0692-12	MW-36	Aqueous	AB/FDR	08/12/25 12:00	08/13/25 07:45
25H0692-13	MWT-36	Aqueous	AB/FDR	08/12/25 12:00	08/13/25 07:45
25H0692-14	MW-37	Aqueous	AB/FDR	08/12/25 10:30	08/13/25 07:45
25H0692-15	MW-38	Aqueous	AB/FDR	08/12/25 11:00	08/13/25 07:45
25H0692-16	MW-01R	Aqueous	AB/FDR	08/13/25 13:50	08/13/25 07:45
25H0692-17	MW-02	Aqueous	AB/FDR	08/13/25 13:00	08/13/25 07:45
25H0692-18	MW-03	Aqueous	AB/FDR	08/13/25 14:50	08/13/25 07:45
25H0692-19	MW-07	Aqueous	AB/FDR	08/13/25 08:55	08/13/25 07:45
25H0692-20	MW-09	Aqueous	AB/FDR	08/13/25 11:05	08/13/25 07:45
25H0692-21	MW-12	Aqueous	AB/FDR	08/13/25 16:15	08/13/25 07:45

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



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

25H0692-22	MW-13	Aqueous	AB/FDR	08/13/25 12:02	08/13/25 07:45
25H0692-23	MW-16	Aqueous	AB/FDR	08/13/25 10:44	08/13/25 07:45
25H0692-24	MW-20	Aqueous	AB/FDR	08/13/25 09:55	08/13/25 07:45
25H0692-25	MW-39	Aqueous	AB/FDR	08/13/25 09:00	08/13/25 07:45
25H0692-26	SG-07	Aqueous	AB/FDR	08/13/25 16:45	08/13/25 07:45
25H0692-27	MW-10	Aqueous	AB/FDR	08/14/25 07:40	08/13/25 07:45
25H0692-28	MW-11	Aqueous	AB/FDR	08/14/25 09:18	08/13/25 07:45
25H0692-29	MW-06	Aqueous	AB/FDR	08/14/25 10:22	08/13/25 07:45
25H0692-30	MW-08	Aqueous	AB/FDR	08/14/25 09:55	08/13/25 07:45
25H0692-31	MW-28	Aqueous	AB/FDR	08/14/25 11:10	08/13/25 07:45

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CHAIN-OF-CUSTODY RECORD

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Page 1 of 2

Trace ID No.
25H0692

Report Results To:

Bill To:

Trace Use:

Company Name: HDR	PO #: 10337505006
Report To: Andrew Byles / Molly Reeves	Contact Name: Lara Zawadows
Mailing Address: ON FILE	Billing Address (if different): ON FILE
City, State, Zip Code:	City, State, Zip Code:
Office Phone:	Phone Number:
Email Address:	Billing Email Address:

Logged By: MT
Checked By: CN
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

Matrix Key:

- ☒ Standard, 5-10 Days
☐ 3 Day*
☐ 1 Day*
- S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

*Results provided end of business day, requires prior approval.

Project Name: Grand Haven Harbor Island		Sampled By: AB/FDR	
Trace No.	Date Collected	Time Collected	Client Sample ID
1	8/11/25	1610	MW-04
2	8/11/25	1420	MW-30
3	8/11/25	1530	MW-32
4	8/11/25	1630	LHG-TB-08112025
5	8/12/25	1115	MW-17
6	8/12/25	1250	MW-18
7	8/12/25	1405	MW-19
8	8/12/25	1532	MW-27
9	8/12/25	1000	MW-31
10	8/12/25	0804	MW-33
Please Sign		Released By: [Signature]	Received By: [Signature]
3)		Date: 8.13	Time: 7:42

Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation	Analysis Requested	Remarks
			Cool HCl HNO ₃ H ₂ SO ₄ NaOH Other		
				40 CFR Part 257 App II	
				40 CFR Part 257 App IX	
				Part 115 Metals	
				El631 Hg - low level	
				TSS	
					1 bottle

☐

Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

Form 70-Z-1

ANALYTICAL REPORT

PREPARED FOR

Attn: Jon Mink
Trace Analytical Laboratories
2241 Black Creek Road
Muskegon, Michigan 49444

Generated 9/24/2025 10:05:13 AM

JOB DESCRIPTION

25H0692

JOB NUMBER

810-160645-1

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
9/24/2025 10:05:13 AM

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: 25H0692

Job ID: 810-160645-1

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
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

Case Narrative

Client: Trace Analytical Laboratories
Project: 25H0692

Job ID: 810-160645-1

Job ID: 810-160645-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-160645-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/18/2025 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-36 (810-160645-12). The container label lists MW-36 along with the COC matching, but MW-35 is logged in.

Gas Flow Proportional Counter

Method 904.0: Radium-228 prep batch 160-733168:

The detection goal was not met for the following samples due to the reduced sample volume attributed to the presence of matrix interferences: MW-38 (810-160645-15), MW-02 (810-160645-17) and MW-07 (810-160645-19) . Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 prep batch 160-733166:

The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: MW-04 (810-160645-1) . Analytical results are reported with the detection limit achieved.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-04	Lab Sample ID: 810-160645-1
No Detections.	
Client Sample ID: MW-30	Lab Sample ID: 810-160645-2
No Detections.	
Client Sample ID: MW-32	Lab Sample ID: 810-160645-3
No Detections.	
Client Sample ID: MW-17	Lab Sample ID: 810-160645-4
No Detections.	
Client Sample ID: MW-18	Lab Sample ID: 810-160645-5
No Detections.	
Client Sample ID: MW-19	Lab Sample ID: 810-160645-6
No Detections.	
Client Sample ID: MW-27	Lab Sample ID: 810-160645-7
No Detections.	
Client Sample ID: MW-31	Lab Sample ID: 810-160645-8
No Detections.	
Client Sample ID: MW-33	Lab Sample ID: 810-160645-9
No Detections.	
Client Sample ID: MWT-33	Lab Sample ID: 810-160645-10
No Detections.	
Client Sample ID: MW-34	Lab Sample ID: 810-160645-11
No Detections.	
Client Sample ID: MW-36	Lab Sample ID: 810-160645-12
No Detections.	
Client Sample ID: MWT-36	Lab Sample ID: 810-160645-13
No Detections.	
Client Sample ID: MW-37	Lab Sample ID: 810-160645-14
No Detections.	
Client Sample ID: MW-38	Lab Sample ID: 810-160645-15
No Detections.	
Client Sample ID: MW-01R	Lab Sample ID: 810-160645-16
No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-02

Lab Sample ID: 810-160645-17

☐ No Detections.

Client Sample ID: MW-03

Lab Sample ID: 810-160645-18

☐ No Detections.

Client Sample ID: MW-07

Lab Sample ID: 810-160645-19

☐ No Detections.

Client Sample ID: MW-09

Lab Sample ID: 810-160645-20

☐ No Detections.

Client Sample ID: MW-12

Lab Sample ID: 810-160645-21

☐ No Detections.

Client Sample ID: MW-13

Lab Sample ID: 810-160645-22

☐ No Detections.

Client Sample ID: MW-16

Lab Sample ID: 810-160645-23

☐ No Detections.

Client Sample ID: MW-20

Lab Sample ID: 810-160645-24

☐ No Detections.

Client Sample ID: MW-39

Lab Sample ID: 810-160645-25

☐ No Detections.

Client Sample ID: SG-07

Lab Sample ID: 810-160645-26

☐ No Detections.

Client Sample ID: MW-10

Lab Sample ID: 810-160645-27

☐ No Detections.

Client Sample ID: MW-11

Lab Sample ID: 810-160645-28

☐ No Detections.

Client Sample ID: MW-06

Lab Sample ID: 810-160645-29

☐ No Detections.

Client Sample ID: MW-08

Lab Sample ID: 810-160645-30

☐ No Detections.

Client Sample ID: MW-28

Lab Sample ID: 810-160645-31

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-04

Date Collected: 08/11/25 16:10

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.451	U	0.340	0.342	1.00	0.482	pCi/L	08/22/25 07:55	09/22/25 15:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					08/22/25 07:55	09/22/25 15:47	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.30	G	0.731	0.741	1.00	1.06	pCi/L	08/22/25 08:06	09/22/25 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					08/22/25 08:06	09/22/25 12:21	1
Y Carrier	73.6		30 - 110					08/22/25 08:06	09/22/25 12:21	1

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	1.75		0.806	0.816	5.00	1.06	pCi/L		09/23/25 12:45	1

Client Sample ID: MW-30

Date Collected: 08/11/25 14:20

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.381		0.274	0.276	1.00	0.380	pCi/L	08/22/25 07:55	09/22/25 15:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		30 - 110					08/22/25 07:55	09/22/25 15:47	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.05		0.567	0.575	1.00	0.813	pCi/L	08/22/25 08:06	09/22/25 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		30 - 110					08/22/25 08:06	09/22/25 12:21	1
Y Carrier	79.3		30 - 110					08/22/25 08:06	09/22/25 12:21	1

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	1.43		0.630	0.638	5.00	0.813	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-32

Date Collected: 08/11/25 15:30

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.573		0.357	0.361	1.00	0.499	pCi/L	08/22/25 07:55	09/22/25 15:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.4		30 - 110					08/22/25 07:55	09/22/25 15:47	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.02		0.574	0.582	1.00	0.837	pCi/L	08/22/25 08:06	09/22/25 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.4		30 - 110					08/22/25 08:06	09/22/25 12:22	1
Y Carrier	74.8		30 - 110					08/22/25 08:06	09/22/25 12:22	1

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	1.60		0.676	0.685	5.00	0.837	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-17

Date Collected: 08/12/25 11:15

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-4

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.448		0.288	0.291	1.00	0.390	pCi/L	08/22/25 07:55	09/22/25 15:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		30 - 110					08/22/25 07:55	09/22/25 15:47	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.848	U	0.562	0.568	1.00	0.849	pCi/L	08/22/25 08:06	09/22/25 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		30 - 110					08/22/25 08:06	09/22/25 12:20	1
Y Carrier	77.4		30 - 110					08/22/25 08:06	09/22/25 12:20	1

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	1.30		0.631	0.638	5.00	0.849	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-18

Lab Sample ID: 810-160645-5

Date Collected: 08/12/25 12:50

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.300	U	0.292	0.293	1.00	0.459	pCi/L	08/22/25 07:55	09/22/25 15:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					08/22/25 07:55	09/22/25 15:47	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.517	U	0.376	0.379	1.00	0.562	pCi/L	08/22/25 08:06	09/22/25 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					08/22/25 08:06	09/22/25 12:20	1
Y Carrier	79.6		30 - 110					08/22/25 08:06	09/22/25 12:20	1

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	0.817		0.476	0.479	5.00	0.562	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-19

Lab Sample ID: 810-160645-6

Date Collected: 08/12/25 14:05

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.316	U	0.260	0.262	1.00	0.388	pCi/L	08/22/25 07:55	09/22/25 15:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					08/22/25 07:55	09/22/25 15:47	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.820		0.422	0.428	1.00	0.587	pCi/L	08/22/25 08:06	09/22/25 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					08/22/25 08:06	09/22/25 12:19	1
Y Carrier	87.5		30 - 110					08/22/25 08:06	09/22/25 12:19	1

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	1.14		0.496	0.502	5.00	0.587	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-27

Date Collected: 08/12/25 15:32

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.545		0.347	0.351	1.00	0.482	pCi/L	08/22/25 08:07	09/19/25 20:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		30 - 110					08/22/25 08:07	09/19/25 20:41	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.70		0.622	0.641	1.00	0.786	pCi/L	08/22/25 08:14	09/19/25 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		30 - 110					08/22/25 08:14	09/19/25 12:02	1
Y Carrier	82.6		30 - 110					08/22/25 08:14	09/19/25 12:02	1

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	2.24		0.712	0.731	5.00	0.786	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-31

Date Collected: 08/12/25 10:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-8

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.254	U	0.195	0.196	1.00	0.277	pCi/L	08/22/25 08:07	09/19/25 20:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					08/22/25 08:07	09/19/25 20:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.322	U	0.351	0.352	1.00	0.573	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	78.5		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	0.576		0.402	0.403	5.00	0.573	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-33

Lab Sample ID: 810-160645-9

Date Collected: 08/12/25 08:04

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0278	U	0.223	0.223	1.00	0.447	pCi/L	08/22/25 08:07	09/19/25 20:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					08/22/25 08:07	09/19/25 20:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08		0.590	0.599	1.00	0.844	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	82.2		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	1.11		0.631	0.639	5.00	0.844	pCi/L		09/23/25 12:48	1

Client Sample ID: MWT-33

Lab Sample ID: 810-160645-10

Date Collected: 08/12/25 08:09

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.218	U	0.258	0.258	1.00	0.421	pCi/L	08/22/25 08:07	09/19/25 20:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/25 08:07	09/19/25 20:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.962		0.533	0.541	1.00	0.764	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	79.3		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	1.18		0.592	0.599	5.00	0.764	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-34

Date Collected: 08/12/25 14:12

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-11

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.349	U	0.271	0.273	1.00	0.391	pCi/L	08/22/25 08:07	09/19/25 20:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/25 08:07	09/19/25 20:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.35		0.592	0.605	1.00	0.806	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	82.2		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	1.70		0.651	0.664	5.00	0.806	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-36

Date Collected: 08/12/25 12:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-12

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.117	U	0.191	0.191	1.00	0.333	pCi/L	08/22/25 08:07	09/19/25 20:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					08/22/25 08:07	09/19/25 20:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.151	U	0.499	0.499	1.00	0.892	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	75.1		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	0.268	U	0.534	0.534	5.00	0.892	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MWT-36

Date Collected: 08/12/25 12:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-13

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0291	U	0.189	0.189	1.00	0.372	pCi/L	08/22/25 08:07	09/19/25 20:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					08/22/25 08:07	09/19/25 20:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.224	U	0.359	0.359	1.00	0.612	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	83.0		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	0.253	U	0.406	0.406	5.00	0.612	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-37

Date Collected: 08/12/25 10:30

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-14

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.169	0.170	1.00	0.289	pCi/L	08/22/25 08:07	09/19/25 20:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		30 - 110					08/22/25 08:07	09/19/25 20:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.128	U	0.323	0.323	1.00	0.572	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	78.5		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	0.244	U	0.365	0.365	5.00	0.572	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-38

Date Collected: 08/12/25 11:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-15

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.332	U	0.308	0.309	1.00	0.469	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.8		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.426	U G	0.613	0.614	1.00	1.03	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.8		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	73.6		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	0.758	U	0.686	0.687	5.00	1.03	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-01R

Date Collected: 08/13/25 13:50

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-16

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0511	U	0.235	0.235	1.00	0.454	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.540	U	0.586	0.588	1.00	0.957	pCi/L	08/22/25 08:14	09/19/25 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					08/22/25 08:14	09/19/25 12:03	1
Y Carrier	78.9		30 - 110					08/22/25 08:14	09/19/25 12:03	1

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	0.591	U	0.631	0.633	5.00	0.957	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-02

Date Collected: 08/13/25 13:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-17

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.524	U	0.513	0.515	1.00	0.813	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.35	G	0.830	0.840	1.00	1.23	pCi/L	08/22/25 08:14	09/19/25 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/25 08:14	09/19/25 12:04	1
Y Carrier	81.5		30 - 110					08/22/25 08:14	09/19/25 12:04	1

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	1.87		0.976	0.985	5.00	1.23	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-03

Date Collected: 08/13/25 14:50

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-18

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.758		0.407	0.413	1.00	0.530	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.578	U	0.523	0.525	1.00	0.825	pCi/L	08/22/25 08:14	09/19/25 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		30 - 110					08/22/25 08:14	09/19/25 12:04	1
Y Carrier	77.4		30 - 110					08/22/25 08:14	09/19/25 12:04	1

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	1.34		0.663	0.668	5.00	0.825	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-07

Date Collected: 08/13/25 08:55

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-19

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.610		0.378	0.382	1.00	0.521	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.881	U G	0.675	0.679	1.00	1.05	pCi/L	08/22/25 08:14	09/19/25 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		30 - 110					08/22/25 08:14	09/19/25 12:04	1
Y Carrier	75.1		30 - 110					08/22/25 08:14	09/19/25 12:04	1

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	1.49		0.774	0.779	5.00	1.05	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-09

Date Collected: 08/13/25 11:05

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-20

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0651	U	0.203	0.203	1.00	0.383	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.4		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.547	U	0.495	0.497	1.00	0.782	pCi/L	08/22/25 08:14	09/19/25 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.4		30 - 110					08/22/25 08:14	09/19/25 12:04	1
Y Carrier	69.9		30 - 110					08/22/25 08:14	09/19/25 12:04	1

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	0.612	U	0.535	0.537	5.00	0.782	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-12

Date Collected: 08/13/25 16:15

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-21

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.180	U	0.202	0.203	1.00	0.325	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.943		0.447	0.456	1.00	0.614	pCi/L	08/22/25 08:14	09/19/25 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					08/22/25 08:14	09/19/25 12:04	1
Y Carrier	79.3		30 - 110					08/22/25 08:14	09/19/25 12:04	1

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	1.12		0.491	0.499	5.00	0.614	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-13

Date Collected: 08/13/25 12:02

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-22

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0416	U	0.180	0.180	1.00	0.353	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.9		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.620	U	0.507	0.510	1.00	0.796	pCi/L	08/22/25 08:14	09/19/25 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.9		30 - 110					08/22/25 08:14	09/19/25 11:52	1
Y Carrier	81.1		30 - 110					08/22/25 08:14	09/19/25 11:52	1

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	0.661	U	0.538	0.541	5.00	0.796	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-16

Date Collected: 08/13/25 10:44

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-23

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.241	U	0.340	0.341	1.00	0.574	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.60		0.593	0.611	1.00	0.754	pCi/L	08/22/25 08:14	09/19/25 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					08/22/25 08:14	09/19/25 11:52	1
Y Carrier	87.1		30 - 110					08/22/25 08:14	09/19/25 11:52	1

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	1.84		0.684	0.700	5.00	0.754	pCi/L		09/23/25 12:48	1

Client Sample ID: MW-20

Date Collected: 08/13/25 09:55

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-24

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0635	U	0.165	0.165	1.00	0.306	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.422	U	0.315	0.317	1.00	0.479	pCi/L	08/22/25 08:14	09/19/25 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					08/22/25 08:14	09/19/25 11:52	1
Y Carrier	87.5		30 - 110					08/22/25 08:14	09/19/25 11:52	1

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	0.486		0.356	0.357	5.00	0.479	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-39

Lab Sample ID: 810-160645-25

Date Collected: 08/13/25 09:00

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.165	U	0.261	0.262	1.00	0.452	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.496	0.505	1.00	0.667	pCi/L	08/22/25 08:14	09/19/25 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					08/22/25 08:14	09/19/25 11:52	1
Y Carrier	84.1		30 - 110					08/22/25 08:14	09/19/25 11:52	1

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	1.20		0.560	0.569	5.00	0.667	pCi/L		09/23/25 12:48	1

Client Sample ID: SG-07

Lab Sample ID: 810-160645-26

Date Collected: 08/13/25 16:45

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.416		0.261	0.264	1.00	0.357	pCi/L	08/22/25 08:07	09/19/25 20:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					08/22/25 08:07	09/19/25 20:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.687		0.373	0.379	1.00	0.525	pCi/L	08/22/25 08:14	09/19/25 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					08/22/25 08:14	09/19/25 11:52	1
Y Carrier	84.5		30 - 110					08/22/25 08:14	09/19/25 11:52	1

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	1.10		0.455	0.462	5.00	0.525	pCi/L		09/23/25 12:48	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-10

Lab Sample ID: 810-160645-27

Date Collected: 08/14/25 07:40

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.495		0.283	0.286	1.00	0.374	pCi/L	08/25/25 08:36	09/17/25 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					08/25/25 08:36	09/17/25 07:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.57		0.579	0.597	1.00	0.732	pCi/L	08/25/25 08:47	09/16/25 10:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					08/25/25 08:47	09/16/25 10:00	1
Y Carrier	84.5		30 - 110					08/25/25 08:47	09/16/25 10:00	1

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	2.06		0.644	0.662	5.00	0.732	pCi/L		09/22/25 11:52	1

Client Sample ID: MW-11

Lab Sample ID: 810-160645-28

Date Collected: 08/14/25 09:18

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.271	U	0.253	0.254	1.00	0.391	pCi/L	08/25/25 08:36	09/17/25 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		30 - 110					08/25/25 08:36	09/17/25 07:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.832		0.537	0.543	1.00	0.796	pCi/L	08/25/25 08:47	09/16/25 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		30 - 110					08/25/25 08:47	09/16/25 10:02	1
Y Carrier	82.2		30 - 110					08/25/25 08:47	09/16/25 10:02	1

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	1.10		0.594	0.599	5.00	0.796	pCi/L		09/22/25 11:52	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-06

Date Collected: 08/14/25 10:22

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-29

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.380	U	0.281	0.283	1.00	0.412	pCi/L	08/25/25 08:36	09/17/25 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					08/25/25 08:36	09/17/25 07:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.566	0.575	1.00	0.798	pCi/L	08/25/25 08:47	09/16/25 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					08/25/25 08:47	09/16/25 10:02	1
Y Carrier	80.0		30 - 110					08/25/25 08:47	09/16/25 10:02	1

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	1.47		0.632	0.641	5.00	0.798	pCi/L		09/22/25 11:52	1

Client Sample ID: MW-08

Date Collected: 08/14/25 09:55

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-30

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.521		0.286	0.290	1.00	0.357	pCi/L	08/25/25 08:36	09/17/25 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		30 - 110					08/25/25 08:36	09/17/25 07:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.651	0.659	1.00	0.964	pCi/L	08/25/25 08:47	09/16/25 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		30 - 110					08/25/25 08:47	09/16/25 10:02	1
Y Carrier	80.4		30 - 110					08/25/25 08:47	09/16/25 10:02	1

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	1.61		0.711	0.720	5.00	0.964	pCi/L		09/22/25 11:52	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-28

Lab Sample ID: 810-160645-31

Date Collected: 08/14/25 11:10

Matrix: Water

Date Received: 08/18/25 08:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.408		0.236	0.239	1.00	0.293	pCi/L	08/25/25 08:36	09/17/25 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					08/25/25 08:36	09/17/25 07:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.566	0.583	1.00	0.700	pCi/L	08/25/25 08:47	09/16/25 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					08/25/25 08:47	09/16/25 10:02	1
Y Carrier	82.6		30 - 110					08/25/25 08:47	09/16/25 10:02	1

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	1.93		0.613	0.630	5.00	0.700	pCi/L		09/22/25 11:52	1

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)			
		Ba			
Lab Sample ID	Client Sample ID	(30-110)			
810-160645-1	MW-04	80.7			
810-160645-2	MW-30	75.3			
810-160645-3	MW-32	82.4			
810-160645-4	MW-17	77.5			
810-160645-5	MW-18	86.8			
810-160645-6	MW-19	85.1			
810-160645-7	MW-27	85.6			
810-160645-8	MW-31	90.7			
810-160645-8 DU	MW-31	88.3			
810-160645-9	MW-33	79.2			
810-160645-10	MWT-33	90.2			
810-160645-11	MW-34	90.2			
810-160645-12	MW-36	80.2			
810-160645-13	MWT-36	78.2			
810-160645-14	MW-37	82.9			
810-160645-15	MW-38	73.8			
810-160645-16	MW-01R	84.1			
810-160645-17	MW-02	90.0			
810-160645-18	MW-03	80.9			
810-160645-19	MW-07	81.2			
810-160645-20	MW-09	70.4			
810-160645-21	MW-12	85.1			
810-160645-22	MW-13	70.9			
810-160645-23	MW-16	84.6			
810-160645-24	MW-20	91.2			
810-160645-25	MW-39	87.5			
810-160645-26	SG-07	85.3			
810-160645-27	MW-10	89.7			
810-160645-28	MW-11	81.7			
810-160645-29	MW-06	86.1			
810-160645-30	MW-08	80.0			
810-160645-31	MW-28	88.3			
LCS 160-733165/2-A	Lab Control Sample	74.3			
LCS 160-733167/2-A	Lab Control Sample	89.2			
LCS 160-733438/2-A	Lab Control Sample	84.6			
MB 160-733165/1-A	Method Blank	75.1			
MB 160-733167/1-A	Method Blank	87.8			
MB 160-733438/1-A	Method Blank	86.1			

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)			
		Ba		Y	
Lab Sample ID	Client Sample ID	(30-110)	(30-110)	(30-110)	(30-110)
810-160645-1	MW-04	80.7	73.6		
810-160645-2	MW-30	75.3	79.3		

Eurofins Eaton Analytical South Bend

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
810-160645-3	MW-32	82.4	74.8
810-160645-4	MW-17	77.5	77.4
810-160645-5	MW-18	86.8	79.6
810-160645-6	MW-19	85.1	87.5
810-160645-7	MW-27	85.6	82.6
810-160645-8	MW-31	90.7	78.5
810-160645-8 DU	MW-31	88.3	84.1
810-160645-9	MW-33	79.2	82.2
810-160645-10	MWT-33	90.2	79.3
810-160645-11	MW-34	90.2	82.2
810-160645-12	MW-36	80.2	75.1
810-160645-13	MWT-36	78.2	83.0
810-160645-14	MW-37	82.9	78.5
810-160645-15	MW-38	73.8	73.6
810-160645-16	MW-01R	84.1	78.9
810-160645-17	MW-02	90.0	81.5
810-160645-18	MW-03	80.9	77.4
810-160645-19	MW-07	81.2	75.1
810-160645-20	MW-09	70.4	69.9
810-160645-21	MW-12	85.1	79.3
810-160645-22	MW-13	70.9	81.1
810-160645-23	MW-16	84.6	87.1
810-160645-24	MW-20	91.2	87.5
810-160645-25	MW-39	87.5	84.1
810-160645-26	SG-07	85.3	84.5
810-160645-27	MW-10	89.7	84.5
810-160645-28	MW-11	81.7	82.2
810-160645-29	MW-06	86.1	80.0
810-160645-30	MW-08	80.0	80.4
810-160645-31	MW-28	88.3	82.6
LCS 160-733166/2-A	Lab Control Sample	74.3	78.9
LCS 160-733168/2-A	Lab Control Sample	89.2	84.5
LCS 160-733439/2-A	Lab Control Sample	84.6	80.0
MB 160-733166/1-A	Method Blank	75.1	80.0
MB 160-733168/1-A	Method Blank	87.8	81.9
MB 160-733439/1-A	Method Blank	86.1	77.8

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-733165/1-A

Matrix: Water

Analysis Batch: 737130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 733165

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.2257	U	0.285	0.286	1.00	0.474	pCi/L	08/22/25 07:55	09/22/25 15:39	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		30 - 110					08/22/25 07:55	09/22/25 15:39	1

Lab Sample ID: LCS 160-733165/2-A

Matrix: Water

Analysis Batch: 737130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 733165

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226			9.57	11.60		1.56	1.00	0.458	pCi/L	121	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits								
Ba Carrier	74.3		30 - 110								

Lab Sample ID: MB 160-733167/1-A

Matrix: Water

Analysis Batch: 736731

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 733167

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01507	U	0.149	0.149	1.00	0.303	pCi/L	08/22/25 08:07	09/19/25 20:41	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					08/22/25 08:07	09/19/25 20:41	1

Lab Sample ID: LCS 160-733167/2-A

Matrix: Water

Analysis Batch: 736731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 733167

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226			9.57	8.535		1.17	1.00	0.401	pCi/L	89	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits								
Ba Carrier	89.2		30 - 110								

Lab Sample ID: 810-160645-8 DU

Matrix: Water

Analysis Batch: 736731

Client Sample ID: MW-31

Prep Type: Total/NA

Prep Batch: 733167

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.254	U	0.01921	U	0.173	1.00	0.341	pCi/L	0.64	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 810-160645-8 DU

Matrix: Water

Analysis Batch: 736731

Client Sample ID: MW-31

Prep Type: Total/NA

Prep Batch: 733167

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.3		30 - 110

Lab Sample ID: MB 160-733438/1-A

Matrix: Water

Analysis Batch: 736242

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 733438

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.5357		0.268	0.273	1.00	0.335	pCi/L	08/25/25 08:36	09/16/25 22:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					08/25/25 08:36	09/16/25 22:17	1

Lab Sample ID: LCS 160-733438/2-A

Matrix: Water

Analysis Batch: 736242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 733438

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.57	9.622		1.26	1.00	0.299	pCi/L	100	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	84.6		30 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-733166/1-A

Matrix: Water

Analysis Batch: 737100

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 733166

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.8612		0.491	0.498	1.00	0.709	pCi/L	08/22/25 08:06	09/22/25 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		30 - 110					08/22/25 08:06	09/22/25 12:29	1
Y Carrier	80.0		30 - 110					08/22/25 08:06	09/22/25 12:29	1

Lab Sample ID: LCS 160-733166/2-A

Matrix: Water

Analysis Batch: 737100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 733166

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.05	10.67		1.54	1.00	0.741	pCi/L	118	75 - 125

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-733166/2-A
Matrix: Water
Analysis Batch: 737100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733166

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	74.3		30 - 110
Y Carrier	78.9		30 - 110

Lab Sample ID: MB 160-733168/1-A
Matrix: Water
Analysis Batch: 736732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733168

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3555	U	0.356	0.358	1.00	0.574	pCi/L	08/22/25 08:14	09/19/25 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					08/22/25 08:14	09/19/25 12:02	1
Y Carrier	81.9		30 - 110					08/22/25 08:14	09/19/25 12:02	1

Lab Sample ID: LCS 160-733168/2-A
Matrix: Water
Analysis Batch: 736732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733168

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.06	9.889		1.33	1.00	0.494	pCi/L	109	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	89.2		30 - 110						
Y Carrier	84.5		30 - 110						

Lab Sample ID: 810-160645-8 DU
Matrix: Water
Analysis Batch: 736732

Client Sample ID: MW-31
Prep Type: Total/NA
Prep Batch: 733168

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.322	U	0.5528	U	0.393	1.00	0.593	pCi/L	0.31	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.3		30 - 110							
Y Carrier	84.1		30 - 110							

Lab Sample ID: MB 160-733439/1-A
Matrix: Water
Analysis Batch: 736253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733439

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4874	U	0.404	0.407	1.00	0.633	pCi/L	08/25/25 08:47	09/16/25 10:09	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-733439/1-A
Matrix: Water
Analysis Batch: 736253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733439

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.1		30 - 110
Y Carrier	77.8		30 - 110

Prepared	Analyzed	Dil Fac
08/25/25 08:47	09/16/25 10:09	1
08/25/25 08:47	09/16/25 10:09	1

Lab Sample ID: LCS 160-733439/2-A
Matrix: Water
Analysis Batch: 736253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733439

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.07	10.97		1.48	1.00	0.618	pCi/L	121	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.6		30 - 110
Y Carrier	80.0		30 - 110

QC Association Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Rad

Prep Batch: 733165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-160645-1	MW-04	Total/NA	Water	PrecSep-21	
810-160645-2	MW-30	Total/NA	Water	PrecSep-21	
810-160645-3	MW-32	Total/NA	Water	PrecSep-21	
810-160645-4	MW-17	Total/NA	Water	PrecSep-21	
810-160645-5	MW-18	Total/NA	Water	PrecSep-21	
810-160645-6	MW-19	Total/NA	Water	PrecSep-21	
MB 160-733165/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-733165/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 733166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-160645-1	MW-04	Total/NA	Water	PrecSep_0	
810-160645-2	MW-30	Total/NA	Water	PrecSep_0	
810-160645-3	MW-32	Total/NA	Water	PrecSep_0	
810-160645-4	MW-17	Total/NA	Water	PrecSep_0	
810-160645-5	MW-18	Total/NA	Water	PrecSep_0	
810-160645-6	MW-19	Total/NA	Water	PrecSep_0	
MB 160-733166/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-733166/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 733167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-160645-7	MW-27	Total/NA	Water	PrecSep-21	
810-160645-8	MW-31	Total/NA	Water	PrecSep-21	
810-160645-9	MW-33	Total/NA	Water	PrecSep-21	
810-160645-10	MWT-33	Total/NA	Water	PrecSep-21	
810-160645-11	MW-34	Total/NA	Water	PrecSep-21	
810-160645-12	MW-36	Total/NA	Water	PrecSep-21	
810-160645-13	MWT-36	Total/NA	Water	PrecSep-21	
810-160645-14	MW-37	Total/NA	Water	PrecSep-21	
810-160645-15	MW-38	Total/NA	Water	PrecSep-21	
810-160645-16	MW-01R	Total/NA	Water	PrecSep-21	
810-160645-17	MW-02	Total/NA	Water	PrecSep-21	
810-160645-18	MW-03	Total/NA	Water	PrecSep-21	
810-160645-19	MW-07	Total/NA	Water	PrecSep-21	
810-160645-20	MW-09	Total/NA	Water	PrecSep-21	
810-160645-21	MW-12	Total/NA	Water	PrecSep-21	
810-160645-22	MW-13	Total/NA	Water	PrecSep-21	
810-160645-23	MW-16	Total/NA	Water	PrecSep-21	
810-160645-24	MW-20	Total/NA	Water	PrecSep-21	
810-160645-25	MW-39	Total/NA	Water	PrecSep-21	
810-160645-26	SG-07	Total/NA	Water	PrecSep-21	
MB 160-733167/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-733167/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
810-160645-8 DU	MW-31	Total/NA	Water	PrecSep-21	

Prep Batch: 733168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-160645-7	MW-27	Total/NA	Water	PrecSep_0	
810-160645-8	MW-31	Total/NA	Water	PrecSep_0	
810-160645-9	MW-33	Total/NA	Water	PrecSep_0	

Eurofins Eaton Analytical South Bend

QC Association Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Rad (Continued)

Prep Batch: 733168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-160645-10	MWT-33	Total/NA	Water	PrecSep_0	
810-160645-11	MW-34	Total/NA	Water	PrecSep_0	
810-160645-12	MW-36	Total/NA	Water	PrecSep_0	
810-160645-13	MWT-36	Total/NA	Water	PrecSep_0	
810-160645-14	MW-37	Total/NA	Water	PrecSep_0	
810-160645-15	MW-38	Total/NA	Water	PrecSep_0	
810-160645-16	MW-01R	Total/NA	Water	PrecSep_0	
810-160645-17	MW-02	Total/NA	Water	PrecSep_0	
810-160645-18	MW-03	Total/NA	Water	PrecSep_0	
810-160645-19	MW-07	Total/NA	Water	PrecSep_0	
810-160645-20	MW-09	Total/NA	Water	PrecSep_0	
810-160645-21	MW-12	Total/NA	Water	PrecSep_0	
810-160645-22	MW-13	Total/NA	Water	PrecSep_0	
810-160645-23	MW-16	Total/NA	Water	PrecSep_0	
810-160645-24	MW-20	Total/NA	Water	PrecSep_0	
810-160645-25	MW-39	Total/NA	Water	PrecSep_0	
810-160645-26	SG-07	Total/NA	Water	PrecSep_0	
MB 160-733168/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-733168/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
810-160645-8 DU	MW-31	Total/NA	Water	PrecSep_0	

Prep Batch: 733438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-160645-27	MW-10	Total/NA	Water	PrecSep-21	
810-160645-28	MW-11	Total/NA	Water	PrecSep-21	
810-160645-29	MW-06	Total/NA	Water	PrecSep-21	
810-160645-30	MW-08	Total/NA	Water	PrecSep-21	
810-160645-31	MW-28	Total/NA	Water	PrecSep-21	
MB 160-733438/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-733438/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 733439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-160645-27	MW-10	Total/NA	Water	PrecSep_0	
810-160645-28	MW-11	Total/NA	Water	PrecSep_0	
810-160645-29	MW-06	Total/NA	Water	PrecSep_0	
810-160645-30	MW-08	Total/NA	Water	PrecSep_0	
810-160645-31	MW-28	Total/NA	Water	PrecSep_0	
MB 160-733439/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-733439/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-04

Date Collected: 08/11/25 16:10

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733165	JTR	EET SL	08/22/25 07:55
Total/NA	Analysis	903.0		1	737100	SCB	EET SL	09/22/25 15:47
Total/NA	Prep	PrecSep_0			733166	JTR	EET SL	08/22/25 08:06
Total/NA	Analysis	904.0		1	737126	SCB	EET SL	09/22/25 12:21
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:45

Client Sample ID: MW-30

Date Collected: 08/11/25 14:20

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733165	JTR	EET SL	08/22/25 07:55
Total/NA	Analysis	903.0		1	737100	SCB	EET SL	09/22/25 15:47
Total/NA	Prep	PrecSep_0			733166	JTR	EET SL	08/22/25 08:06
Total/NA	Analysis	904.0		1	737126	SCB	EET SL	09/22/25 12:21
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-32

Date Collected: 08/11/25 15:30

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733165	JTR	EET SL	08/22/25 07:55
Total/NA	Analysis	903.0		1	737100	SCB	EET SL	09/22/25 15:47
Total/NA	Prep	PrecSep_0			733166	JTR	EET SL	08/22/25 08:06
Total/NA	Analysis	904.0		1	737126	SCB	EET SL	09/22/25 12:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-17

Date Collected: 08/12/25 11:15

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733165	JTR	EET SL	08/22/25 07:55
Total/NA	Analysis	903.0		1	737100	SCB	EET SL	09/22/25 15:47
Total/NA	Prep	PrecSep_0			733166	JTR	EET SL	08/22/25 08:06
Total/NA	Analysis	904.0		1	737126	SCB	EET SL	09/22/25 12:20
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-18

Date Collected: 08/12/25 12:50

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733165	JTR	EET SL	08/22/25 07:55
Total/NA	Analysis	903.0		1	737100	SCB	EET SL	09/22/25 15:47
Total/NA	Prep	PrecSep_0			733166	JTR	EET SL	08/22/25 08:06
Total/NA	Analysis	904.0		1	737126	SCB	EET SL	09/22/25 12:20
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-19

Date Collected: 08/12/25 14:05

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733165	JTR	EET SL	08/22/25 07:55
Total/NA	Analysis	903.0		1	737100	SCB	EET SL	09/22/25 15:47
Total/NA	Prep	PrecSep_0			733166	JTR	EET SL	08/22/25 08:06
Total/NA	Analysis	904.0		1	737126	SCB	EET SL	09/22/25 12:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-27

Date Collected: 08/12/25 15:32

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736731	SWS	EET SL	09/19/25 20:41
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-31

Date Collected: 08/12/25 10:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736731	SWS	EET SL	09/19/25 20:42
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-33

Date Collected: 08/12/25 08:04

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736731	SWS	EET SL	09/19/25 20:42
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MWT-33

Date Collected: 08/12/25 08:09

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736731	SWS	EET SL	09/19/25 20:42
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-34

Date Collected: 08/12/25 14:12

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736731	SWS	EET SL	09/19/25 20:43
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-36

Date Collected: 08/12/25 12:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736731	SWS	EET SL	09/19/25 20:43
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MWT-36

Lab Sample ID: 810-160645-13

Date Collected: 08/12/25 12:00

Matrix: Water

Date Received: 08/18/25 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736731	SWS	EET SL	09/19/25 20:43
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-37

Lab Sample ID: 810-160645-14

Date Collected: 08/12/25 10:30

Matrix: Water

Date Received: 08/18/25 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736731	SWS	EET SL	09/19/25 20:43
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-38

Lab Sample ID: 810-160645-15

Date Collected: 08/12/25 11:00

Matrix: Water

Date Received: 08/18/25 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-01R

Lab Sample ID: 810-160645-16

Date Collected: 08/13/25 13:50

Matrix: Water

Date Received: 08/18/25 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:03
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-02

Date Collected: 08/13/25 13:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:04
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-03

Date Collected: 08/13/25 14:50

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:04
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-07

Date Collected: 08/13/25 08:55

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:04
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-09

Date Collected: 08/13/25 11:05

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:04
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-12

Date Collected: 08/13/25 16:15

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736732	SWS	EET SL	09/19/25 12:04
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-13

Date Collected: 08/13/25 12:02

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736731	SWS	EET SL	09/19/25 11:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-16

Date Collected: 08/13/25 10:44

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736731	SWS	EET SL	09/19/25 11:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-20

Date Collected: 08/13/25 09:55

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736731	SWS	EET SL	09/19/25 11:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-39

Date Collected: 08/13/25 09:00

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736731	SWS	EET SL	09/19/25 11:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: SG-07

Date Collected: 08/13/25 16:45

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733167	JTR	EET SL	08/22/25 08:07
Total/NA	Analysis	903.0		1	736732	SWS	EET SL	09/19/25 20:51
Total/NA	Prep	PrecSep_0			733168	JTR	EET SL	08/22/25 08:14
Total/NA	Analysis	904.0		1	736731	SWS	EET SL	09/19/25 11:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	737148	SCB	EET SL	09/23/25 12:48

Client Sample ID: MW-10

Date Collected: 08/14/25 07:40

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733438	JTR	EET SL	08/25/25 08:36
Total/NA	Analysis	903.0		1	736395	SWS	EET SL	09/17/25 07:36
Total/NA	Prep	PrecSep_0			733439	JTR	EET SL	08/25/25 08:47
Total/NA	Analysis	904.0		1	736240	SWS	EET SL	09/16/25 10:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	737120	SCB	EET SL	09/22/25 11:52

Client Sample ID: MW-11

Date Collected: 08/14/25 09:18

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733438	JTR	EET SL	08/25/25 08:36
Total/NA	Analysis	903.0		1	736395	SWS	EET SL	09/17/25 07:36
Total/NA	Prep	PrecSep_0			733439	JTR	EET SL	08/25/25 08:47
Total/NA	Analysis	904.0		1	736240	SWS	EET SL	09/16/25 10:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	737120	SCB	EET SL	09/22/25 11:52

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Client Sample ID: MW-06

Date Collected: 08/14/25 10:22

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733438	JTR	EET SL	08/25/25 08:36
Total/NA	Analysis	903.0		1	736395	SWS	EET SL	09/17/25 07:36
Total/NA	Prep	PrecSep_0			733439	JTR	EET SL	08/25/25 08:47
Total/NA	Analysis	904.0		1	736240	SWS	EET SL	09/16/25 10:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	737120	SCB	EET SL	09/22/25 11:52

Client Sample ID: MW-08

Date Collected: 08/14/25 09:55

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733438	JTR	EET SL	08/25/25 08:36
Total/NA	Analysis	903.0		1	736395	SWS	EET SL	09/17/25 07:36
Total/NA	Prep	PrecSep_0			733439	JTR	EET SL	08/25/25 08:47
Total/NA	Analysis	904.0		1	736240	SWS	EET SL	09/16/25 10:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	737120	SCB	EET SL	09/22/25 11:52

Client Sample ID: MW-28

Date Collected: 08/14/25 11:10

Date Received: 08/18/25 08:45

Lab Sample ID: 810-160645-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			733438	JTR	EET SL	08/25/25 08:36
Total/NA	Analysis	903.0		1	736395	SWS	EET SL	09/17/25 07:36
Total/NA	Prep	PrecSep_0			733439	JTR	EET SL	08/25/25 08:47
Total/NA	Analysis	904.0		1	736240	SWS	EET SL	09/16/25 10:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	737120	SCB	EET SL	09/22/25 11:52

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-27
ANAB	Dept. of Energy	L2305.01	04-06-27
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-25
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25 *
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-26
HI - RadChem Recognition	State	n/a	06-30-26
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25
Louisiana (All)	NELAP	106151	06-30-26
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	10-01-26
Massachusetts	State	M-MO054	06-30-26
MI - RadChem Recognition	State	9005	06-30-26
Missouri	State	780	06-30-28
Nevada	State	MO00054	07-31-26
New Jersey	NELAP	MO002	06-30-26
New Mexico	State	MO00054	06-30-26
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	06-30-26
North Dakota	State	R-207	06-30-25 *
Oklahoma	NELAP	9997	12-31-25
Oregon	NELAP	4157	09-01-26
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25 *
Texas	NELAP	T104704193	07-31-26
US Fish & Wildlife	US Federal Programs	058448	07-31-26
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-26
Virginia	NELAP	460230	06-14-26
Washington	State	C592	08-31-26
West Virginia DEP	State	381	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton Analytical South Bend

Method Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Trace Analytical Laboratories
Project/Site: 25H0692

Job ID: 810-160645-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
810-160645-1	MW-04	Water	08/11/25 16:10	08/18/25 08:45	Michigan
810-160645-2	MW-30	Water	08/11/25 14:20	08/18/25 08:45	Michigan
810-160645-3	MW-32	Water	08/11/25 15:30	08/18/25 08:45	Michigan
810-160645-4	MW-17	Water	08/12/25 11:15	08/18/25 08:45	Michigan
810-160645-5	MW-18	Water	08/12/25 12:50	08/18/25 08:45	Michigan
810-160645-6	MW-19	Water	08/12/25 14:05	08/18/25 08:45	Michigan
810-160645-7	MW-27	Water	08/12/25 15:32	08/18/25 08:45	Michigan
810-160645-8	MW-31	Water	08/12/25 10:00	08/18/25 08:45	Michigan
810-160645-9	MW-33	Water	08/12/25 08:04	08/18/25 08:45	Michigan
810-160645-10	MWT-33	Water	08/12/25 08:09	08/18/25 08:45	Michigan
810-160645-11	MW-34	Water	08/12/25 14:12	08/18/25 08:45	Michigan
810-160645-12	MW-36	Water	08/12/25 12:00	08/18/25 08:45	Michigan
810-160645-13	MWT-36	Water	08/12/25 12:00	08/18/25 08:45	Michigan
810-160645-14	MW-37	Water	08/12/25 10:30	08/18/25 08:45	Michigan
810-160645-15	MW-38	Water	08/12/25 11:00	08/18/25 08:45	Michigan
810-160645-16	MW-01R	Water	08/13/25 13:50	08/18/25 08:45	Michigan
810-160645-17	MW-02	Water	08/13/25 13:00	08/18/25 08:45	Michigan
810-160645-18	MW-03	Water	08/13/25 14:50	08/18/25 08:45	Michigan
810-160645-19	MW-07	Water	08/13/25 08:55	08/18/25 08:45	Michigan
810-160645-20	MW-09	Water	08/13/25 11:05	08/18/25 08:45	Michigan
810-160645-21	MW-12	Water	08/13/25 16:15	08/18/25 08:45	Michigan
810-160645-22	MW-13	Water	08/13/25 12:02	08/18/25 08:45	Michigan
810-160645-23	MW-16	Water	08/13/25 10:44	08/18/25 08:45	Michigan
810-160645-24	MW-20	Water	08/13/25 09:55	08/18/25 08:45	Michigan
810-160645-25	MW-39	Water	08/13/25 09:00	08/18/25 08:45	Michigan
810-160645-26	SG-07	Water	08/13/25 16:45	08/18/25 08:45	Michigan
810-160645-27	MW-10	Water	08/14/25 07:40	08/18/25 08:45	Michigan
810-160645-28	MW-11	Water	08/14/25 09:18	08/18/25 08:45	Michigan
810-160645-29	MW-06	Water	08/14/25 10:22	08/18/25 08:45	Michigan
810-160645-30	MW-08	Water	08/14/25 09:55	08/18/25 08:45	Michigan
810-160645-31	MW-28	Water	08/14/25 11:10	08/18/25 08:45	Michigan



Eaton Analytical



810-160645 Chain of Custody

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order #

Batch #

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page ____ of ____

Shaded area for EEA use only

REPORT TO: Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998				SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444				COMPLIANCE MONITORING		POPULATION SERVED	SOURCE WATER	25H0692	25H0692			
				Yes No								
				X								
LAB Number	COLLECTION			SAMPLING SITE		TEST NAME		SAMPLE REMARKS	CHLORINATED			
	DATE	TIME	AM PM						YES NO			
1	08/11/25	16:10		MW-04		Radium 226/228					1	W SW
2	08/11/25	14:20		MW-30		Radium 226/228					1	W SW
3	08/11/25	15:30		MW-32		Radium 226/228					1	W SW
4	08/12/25	11:15		MW-17		Radium 226/228					1	W SW
5	08/12/25	12:50		MW-18		Radium 226/228					1	W SW
6	08/12/25	14:05		MW-19		Radium 226/228					1	W SW
7	08/12/25	15:32		MW-27		Radium 226/228					1	W SW
8	08/12/25	10:00		MW-31		Radium 226/228					1	W SW
9	08/12/25	8:04		MW-33		Radium 226/228					1	W SW
10	08/12/25	8:09		MWT-33		Radium 226/228					1	W SW
11	08/12/25	14:12		MW-34		Radium 226/228					1	W SW
12	08/12/25	12:00		MW-36		Radium 226/228					1	W SW
13	08/12/25	12:00		MWT-36		Radium 226/228					1	W SW
14	08/12/25	10:30		MW-37		Radium 226/228					1	W SW

RELINQUISHED BY: (Signature) Michelle Johnson	DATE	TIME AM PM	RECEIVED BY: (Signature) Fedex	DATE	TIME AM PM	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT LAB COMMENTS Level IV St. Louis EDD
RELINQUISHED BY: (Signature) Fedex	DATE	TIME AM PM	RECEIVED BY: (Signature) M. Pinette	DATE	TIME AM PM	
RELINQUISHED BY: (Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: Meadow Pinette	DATE	TIME AM PM	
CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue _____ Ambient _____ °C Upon Receipt _____ N/A						

MATRIX CODES: DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER	TURN-AROUND TIME (TAT) - SURCHARGES SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days) 50% RW* = Rush Written: (5 working days) 75% * 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	Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
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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.

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

2 of 4



Eaton Analytical

 110 S. Hill Street
 South Bend, IN 46617
 T: 1.800.332.4345
 F: 1.574.233.8207

Order #

Batch #

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page ____ of ____

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REPORT TO:				SAMPLER (Signature)				PWS ID #		STATE (sample origin)		PROJECT NAME		PO#		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME		
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998										MI										
BILL TO:				COMPLIANCE MONITORING				Yes		No		POPULATION SERVED		SOURCE WATER						
Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444				x								25H0692		25H0692						
LAB Number		COLLECTION				SAMPLING SITE				TEST NAME				SAMPLE REMARKS		CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
		DATE	TIME	AM	PM											YES	NO			
1		08/12/25	11:00			MW-38				Radium 226/228								1	W	SW
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT LAB COMMENTS Level IV St. Louis EDD
Michelle Johnson			Fedex			
		AM PM			AM PM	
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	CONDITIONS UPON RECEIPT (check one): ____ Iced: Wet/Blue ____ Ambient ____ °C Upon Receipt ____ N/A
Fedex			<i>M. Pinette</i>	8/18/25	0845	
		AM PM			AM PM	
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	
			Meadow Pinette			
		AM PM			AM PM	

MATRIX CODES:

 DW-DRINKING WATER
 RW-REAGENT WATER
 GW-GROUND WATER
 EW-EXPOSURE WATER
 SW-SURFACE WATER
 PW-POOL WATER
 WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

 SW = Standard Written: (15 working days) 0%
 RV* = Rush Verbal: (5 working days) 50%
 RW* = Rush Written: (5 working days) 75%

 IV* = Immediate Verbal: (3 working days) 100%
 IW* = Immediate Written: (3 working days) 125%
 SP* = Weekend, Holiday CALL
 STAT* = Less than 48 hours CALL

 Samples received unannounced with less
 than 48 hours holding time remaining
 may be subject to additional charges.

* Please call, expedited service not available for all testing

06-LO-FD435 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.



Eaton Analytical

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South Bend, IN 46617
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F: 1.574.233.8207

Order #

Batch #

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CHAIN OF CUSTODY RECORD

Page ____ of ____

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REPORT TO:				SAMPLER (Signature)				PWS ID #		STATE (sample origin)		PROJECT NAME		PO#		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME	
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998										MI									
BILL TO:				COMPLIANCE MONITORING				POPULATION SERVED		SOURCE WATER		25H0691		25H0691					
Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444								Yes		No									
				X															

LAB Number	COLLECTION				SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME	AM	PM				YES	NO			
1	08/13/25	13:50			MW-01R	Radium 226/228				1	W	SW
2	08/13/25	13:00			MW-02	Radium 226/228				1	W	SW
3	08/13/25	14:50			MW-03	Radium 226/228				1	W	SW
4	08/13/25	8:55			MW-07	Radium 226/228				1	W	SW
5	08/13/25	11:05			MW-09	Radium 226/228				1	W	SW
6	08/13/25	16:15			MW-12	Radium 226/228				1	W	SW
7	08/13/25	12:02			MW-13	Radium 226/228				1	W	SW
8	08/13/25	10:44			MW-16	Radium 226/228				1	W	SW
9	08/13/25	9:55			MW-20	Radium 226/228				1	W	SW
10	08/13/25	9:00			MW-39	Radium 226/228				1	W	SW
11	08/13/25	16:45			SG-07	Radium 226/228				1	W	SW
12	08/14/25	7:40			MW-10	Radium 226/228				1	W	SW
13	08/14/25	9:18			MW-11	Radium 226/228				1	W	SW
14	08/14/25	10:22			MW-06	Radium 226/228				1	W	SW

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT
Michelle Johnson			Fedex			
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME	LAB COMMENTS
Fedex			M. Pinette	8/18/25	0845	
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	CONDITIONS UPON RECEIPT (check one):
			Meadow Pinette			
						☐ Iced: Wet/Blue ☐ Ambient ☐ °C Upon Receipt ☐ N/A

MATRIX CODES: DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER	TURN-AROUND TIME (TAT) - SURCHARGES SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days) 50% RW* = Rush Written: (5 working days) 75%	IV* = Immediate Verbal: (3 working days) 100% IW* = Immediate Written: (3 working days) 125% SP* = Weekend, Holiday CALL STAT* = Less than 48 hours CALL	Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
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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.

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20



Eaton Analytical

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South Bend, IN 46617
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F: 1.574.233.8207

Order #

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CHAIN OF CUSTODY RECORD

Page ____ of ____

REPORT TO:					SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
BILL TO:					COMPLIANCE MONITORING		POPULATION SERVED	SOURCE WATER	25H0691	25H0691			
LAB Number	COLLECTION				SAMPLING SITE		TEST NAME		SAMPLE REMARKS	CHLORINATED			
	DATE	TIME	AM	PM						YES	NO		
1	08/14/25	9:55			MW-08		Radium 226/228					1	W
2	08/14/25	11:10			MW-28		Radium 226/228					1	W
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
Michelle Johnson			Fedex		
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
Fedex			M. Pinette	8/18/25	0843
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
			Meadow Pinette		

LAB COMMENTS	
Level IV St. Louis EDD	

CONDITIONS UPON RECEIPT (check one):	
☐ Iced: Wet/Blue	☐ Ambient
☐ °C Upon Receipt	N/A

MATRIX CODES:	
DW-DRINKING WATER	
RW-REAGENT WATER	
GW-GROUND WATER	
EW-EXPOSURE WATER	
SW-SURFACE WATER	
PW-POOL WATER	
WW-WASTE WATER	

TURN-AROUND TIME (TAT) - SURCHARGES	
SW = Standard Written: (15 working days)	0%
RV* = Rush Verbal: (5 working days)	50%
RW* = Rush Written: (5 working days)	75%
* 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

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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.

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-160645-1

Login Number: 160645

List Number: 1

Creator: Williams, Kameron

List Source: Eurofins Eaton Analytical South Bend

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-160645-1

Login Number: 160645

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/20/25 02:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TRIPLE
ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratory
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Page 2 of 2

Trace ID No.

2540692

Report Results To:

Bill To:

Company Name: HDR	PO #: 10837505 006
Report To: Andrew Buys / Molly Rivers	Contact Name: Lara Zawaidoh
Mailing Address: ON FILE	Billing Address (if different): ON FILE
City, State, Zip Code:	City, State, Zip Code:
Office Phone:	Cell Phone:
Email Address:	Billing Email Address:

Trace Use:

Logged By:	me
Checked By:	me
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level
Lab	
Sampling Time:	

Turnaround Requirements:

☒ Standard, 5-10 Days
☐ 3 Day*
☐ 1 Day*

Matrix Key:

S = Soil / Solid	WI = Wipes
W = Water	LW = Liquid Waste
SL = Sludge	A = Air
Ol = Oil	D = Drinking Water

*Results provided end of business day, requires prior approval

Project Name: Grand Haven Harbor Island

Sampled By: AB/FDR

[illegible]

7

Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads

Form 70-Z.1

TRENDS
ANALYTICAL LABORATORIES, INC.

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Page 1 of 2

Trace ID No. ~~25H0855~~ 14.25
58 m51

Trace Use:

Logged By:

Checked By:

Soil Volatiles Preserved (circle if applicable):

MI0011

Sampling Time

Analysis Requested

WI = Wipes

A = Air

Oil = Oil D = Drinking Water

Sampled By: AB/FDR

Part 257 App III	
Part 257 App IV	
5 Metals	
- Low Level Hg	

Trace No.	Date Collected	Time Collected	Client Sample ID
Metals Field Filtered (Y / N)			Preservation Cool HCl HNO₃ H₂SO₄ NaOH Other
Matrix			
Number of Containers			
Cool			
HCl			
HNO ₃			
H ₂ SO ₄			
NaOH			
Other			

40 CFR Part 257 App III	III
40 CFR Part 257 App IV	IV
Part 115 Metals	
E1631 - Low Level Hg	
TSS	

[illegible]

Please Sign		In executing this Chain of Custody, the client acknowledges the terms set forth at www.trio-jlabs.com/terms-of-agreement													
	Released By	Received By	Date	Time	Released By				Received By				Date	Time	
16	8/13/25 1350	MMW-01R	N	W	4	4	2		X	X	X	X			
17	8/13/25 1300	MMW-02	N	W	4	4	2		X	X	X	X			
18	8/13/25 1450	MMW-03	N	W	4	4	2		X	X	X	X			
19	8/13/25 0855	MMW-07	N	W	4	4	2		X	X	X	X			
20	8/13/25 1105	MMW-09	N	W	4	4	2		X	X	X	X			
21	8/13/25 1015	MMW-12	N	W	4	4	2		X	X	X	X			
22	8/13/25 1202	MMW-13	N	W	4	4	2		X	X	X	X			
23	8/13/25 1044	MMW-16	N	W	4	4	2		X	X	X	X			
24	8/13/25 0955	MMW-20	N	W	4	4	2		X	X	X	X			
25	8/13/25 0900	MMW-39	N	W	4	4	2		X	X	X	X			
1) <i>Ann J Br</i>		<i>[Signature]</i>	8/14/25		2)										
3)					4)										

Form 70-Z.1

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



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

25H0692

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/13/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 3:31										
Initials: CN										
Package Description: Cooler										
Package Temp °C	0.9	0.7	x							
Representative Sample Temp °C	5.1	4.9	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: HC331173)

☐ 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:

HDR MW-33, 34, 27, 33, 27, 27, 34

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



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

25H0692
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/13/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 8:35										
Initials: CM										
Package Description: Cooler										
Package Temp °C	0.0	-0.2	x							
Representative Sample Temp °C	3.9	3.7	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: HC331173)

☐ 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:

HDR-MW-19, 31, 32, 37, 36, 38, 36, 36, 36, 37

25H0692

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 9/13/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 8:30										
Initials: CN										
Package Description: Cooler										
Package Temp °C	0.0	-0.2	x							
Representative Sample Temp °C	4.6	4.4	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: HC331173) ☐ 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:

HDR - MW-17, 19, 31, 17, 13, 18

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



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

25H0692

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/13/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 8:40										
Initials: CM										
Package Description: Cooler										
Package Temp °C	0.9	0.7	X							
Representative Sample Temp °C	3.9	3.7	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: HC331173)

☐ 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:

HDR MW-33, 30, 04, 32 MW-LLHG TB, LLHG

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



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

25H0692

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 1300										
Initials: MS										
Package Description: Cooler										
Package Temp °C	0.0	0.0								
Representative Sample Temp °C	21.6	21.6								

Sample Receipt

Yes No

☒ ☐ Received on ice or other coolant

☒ ☐ Ice still present upon receipt

☐ ☒ Custody seals present

☒ Trace Courier
MS 8/14/25

☒ 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: HC331173)

☐ 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-13

MW-16

MW-39

LLHG-TB-08132025

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



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

25H0692
HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 13:00										
Initials: m5										
Package Description: Cooler										
Package Temp °C	0.0	0.0	/							
Representative Sample Temp °C	5.7	5.7	/							

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: HC331173)

☐ 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:

25H0692

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 1300										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.0	0.0								
Representative Sample Temp °C	11.3	11.3								

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: HC331173)

☐ 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-28

MW-20

MW-09

25H0692

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 1300										
Initials: MJ										
Package Description: Cooler										
Package Temp °C	0.2	0.0	/							
Representative Sample Temp °C	11.2	11.0	/							

Sample Receipt

Yes No

☒ ☐ Received on ice or other coolant

☒ ☐ Ice still present upon receipt

☐ ☒ Custody seals present

☒ Trace Courier MJ 8/14/25 ☒ 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: HC331173)

☐ 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-03

MW-12

SG-07

MW-08

25H0692

HDR Michigan Inc.

Project Manager: Jon Mink

Sample Log In Checklist

Date: 8/14/05	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-12 (CF: -0.2°C)	IR-13 (CF: -1.4°C)	IR-14 (CF: -1.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Time: 1300										
Initials: m.j										
Package Description: Cooler										
Package Temp °C	0.2	0.0								
Representative Sample Temp °C	2.3	2.1								

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: HC331173) ☐ 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-06
 MW-01R
 MW-10
 MW-11

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
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	108	110	38.0	160	36.0	0.332	-0.335
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	234	225	130	400	76.5	0.326	0.685
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Normal	Normal	131	140	49.0	210	46.4	0.353	-0.475
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Normal	Normal	11.9	14.0	4.80	16.0	3.53	0.296	-0.657
11_2_3_120	MW-01R	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	7.62	7.74	6.02	7.81	0.432	0.0568	-3.79
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Gamma	432	375	8.80	980	299	0.693	0.321
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	2350	2400	2100	2600	121	0.0515	-0.129
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.000357	0.000250	0.000170	0.00120	0.000270	0.757	2.38
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00156	0.00135	0.000730	0.00410	0.000754	0.485	2.74
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.351	0.315	0.200	0.560	0.119	0.338	0.632
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	16	2	12%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000200	0.000200	0.0000520	0.000360	0.0000977	0.488	0.215
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	16	13	81%	2022-11-29 to 2025-08-13		Nonparametric	0.000139	0.0000750	0.0000320	0.000380	0.000118	0.848	1.50
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00344	0.00200	0.00130	0.0220	0.00503	1.46	3.80
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00158	0.00110	0.000640	0.00450	0.00112	0.707	2.02
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Normal	Normal	11.9	14.0	4.80	16.0	3.53	0.296	-0.657
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	16	2	12%	2022-11-29 to 2025-08-13	Lognormal	Lognormal	0.00112	0.000810	0.000350	0.00530	0.00117	1.04	3.39
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	2.35	2.45	0.770	3.40	0.774	0.329	-0.433
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-29 to 2025-08-13		Nonparametric	140	160	0.160	160	54.5	0.389	-2.51
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-29 to 2025-08-13	Lognormal	Lognormal	0.00123	0.000750	0.000250	0.00560	0.00138	1.12	2.51
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.915	0.877	0.601	1.28	0.228	0.249	0.307
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal	Gamma	0.000709	0.000650	0.000300	0.00180	0.000329	0.464	2.61
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-29 to 2025-08-13		Nonparametric	0.000247	0.000380	0.0000750	0.000380	0.000156	0.634	-0.279
11_2_5_111	MW-01R	Part 115	Copper	mg/L	16	6	38%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.000382	0.000290	0.000200	0.00130	0.000314	0.821	2.38
11_2_5_114	MW-01R	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Normal	Gamma	0.466	0.490	0.0590	1.10	0.356	0.764	0.367
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00340	0.00195	0.00120	0.0220	0.00505	1.49	3.78
11_2_5_123	MW-01R	Part 115	Silver	mg/L	16	16	100%	2022-11-29 to 2025-08-13		Nonparametric	0.000100	0.0000500	0.0000500	0.000250	0.0000894	0.894	1.28
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	16	2	12%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00201	0.00180	0.000620	0.00460	0.00127	0.629	0.832
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	16	3	19%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00829	0.00145	0.00120	0.0330	0.0108	1.31	1.37
12_2_3_105	MW-02	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	109	105	73.0	170	26.3	0.241	1.55
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	199	200	170	240	18.1	0.0906	0.416
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	140	140	67.0	160	21.2	0.151	-3.03
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	10.1	9.85	4.50	16.0	2.36	0.234	0.301
12_2_3_120	MW-02	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.20	7.16	7.06	7.45	0.108	0.0150	0.852
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	16	10	62%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	1.42	1.01	0.410	5.50	1.32	0.926	2.11
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1919	1900	1600	2600	237	0.124	1.49
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.000246	0.000215	0.000100	0.000630	0.000138	0.559	1.92
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.00748	0.00770	0.000440	0.0120	0.00247	0.330	-1.26
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.465	0.465	0.320	0.730	0.0998	0.215	0.919
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	16	1	6%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000263	0.000250	0.0000520	0.000520	0.000126	0.479	0.405
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	16	11	69%	2022-11-28 to 2025-08-13	Lognormal	Nonparametric	0.000124	0.0000750	0.0000320	0.000490	0.000128	1.03	2.30
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.0416	0.0425	0.000380	0.0680	0.0190	0.457	-0.425
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.00607	0.00620	0.000240	0.00970	0.00248	0.409	-0.621

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	10.1	9.85	4.50	16.0	2.36	0.234	0.301
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	16	1	6%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00280	0.00235	0.000100	0.00600	0.00169	0.604	0.564
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1.47	1.45	0.870	2.30	0.336	0.229	0.938
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-28 to 2025-08-13		Nonparametric	140	160	2.30	160	53.3	0.380	-2.51
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.00735	0.00570	0.00380	0.0160	0.00356	0.484	1.33
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	15	5	33%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1.58	1.23	0.686	3.35	0.791	0.501	1.02
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00126	0.00120	0.000500	0.00230	0.000444	0.352	0.438
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000243	0.000228	0.0000750	0.000620	0.000182	0.752	0.432
12_2_5_111	MW-02	Part 115	Copper	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00201	0.00190	0.000230	0.00440	0.00107	0.533	0.617
12_2_5_114	MW-02	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	23.9	23.5	18.0	31.0	3.82	0.160	0.358
12_2_5_119	MW-02	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.0244	0.0225	0.000930	0.0530	0.0129	0.527	0.684
12_2_5_123	MW-02	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.0000875	0.0000500	0.0000500	0.000250	0.0000806	0.921	1.77
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	16	1	6%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00388	0.00355	0.000620	0.00690	0.00192	0.495	-0.00994
12_2_5_129	MW-02	Part 115	Zinc	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.00861	0.00330	0.00160	0.0360	0.0109	1.26	1.61
13_2_3_105	MW-03	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	4.12	4.15	3.30	4.50	0.321	0.0779	-1.11
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	363	360	290	430	36.6	0.101	-0.0160
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	157	145	94.0	300	55	0.350	1.29
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.682	0.615	0.520	1.60	0.255	0.374	3.51
13_2_3_120	MW-03	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.37	7.36	7.20	7.59	0.0962	0.0131	0.556
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	354	335	34.0	760	214	0.604	0.283
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	2044	2100	1700	2300	253	0.124	-0.227
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	16	10	62%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Nonparametric	0.000211	0.000105	0.0000870	0.000500	0.000170	0.804	1.13
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000945	0.000940	0.000490	0.00140	0.000263	0.278	-0.160
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.356	0.370	0.130	0.500	0.0857	0.241	-1.05
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	16	10	62%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.0000810	0.0000520	0.0000520	0.000260	0.0000613	0.756	2.24
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000118	0.0000750	0.0000320	0.000380	0.000109	0.924	1.99
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00459	0.00455	0.00300	0.00730	0.00120	0.262	0.693
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000772	0.000655	0.000370	0.00130	0.000316	0.409	0.556
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.682	0.615	0.520	1.60	0.255	0.374	3.51
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000460	0.000500	0.000100	0.00110	0.000359	0.780	0.923
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.0383	0.0350	0.0290	0.0650	0.00926	0.242	1.78
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-28 to 2025-08-13		Nonparametric	145	160	0.390	240	59.8	0.412	-1.83
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	16	12	75%	2022-11-28 to 2025-08-13		Nonparametric	0.000781	0.000320	0.000250	0.00310	0.000943	1.21	2.16
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	15	1	7%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1.06	0.959	0.540	1.92	0.401	0.377	0.892
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	16	3	19%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000437	0.000405	0.000170	0.00110	0.000213	0.487	2.05
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000253	0.000380	0.0000750	0.000380	0.000151	0.595	-0.355
13_2_5_111	MW-03	Part 115	Copper	mg/L	16	7	44%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.000408	0.000245	0.000200	0.00100	0.000322	0.789	1.27
13_2_5_114	MW-03	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Gamma	1.36	0.705	0.0980	5.90	1.57	1.16	1.95
13_2_5_119	MW-03	Part 115	Nickel	mg/L	16	1	6%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.00234	0.00145	0.000850	0.0150	0.00343	1.46	3.81
13_2_5_123	MW-03	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.000100	0.0000500	0.0000500	0.000250	0.0000894	0.894	1.28
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	16	9	56%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.00118	0.000910	0.000620	0.00310	0.000725	0.615	1.42
13_2_5_129	MW-03	Part 115	Zinc	mg/L	16	9	56%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.00554	0.00125	0.00120	0.0190	0.00703	1.27	1.29

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
14_2_3_105	MW-04	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	4.06	4.00	3.50	4.70	0.342	0.0844	0.552
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	358	360	250	430	42.3	0.118	-0.787
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	156	155	21.0	300	67.5	0.434	0.121
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Lognormal	Lognormal	1.40	1.35	0.760	2.30	0.340	0.243	1.10
14_2_3_120	MW-04	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	7.35	7.34	7.22	7.66	0.114	0.0155	1.18
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Nonparametric	Nonparametric	587	620	1.80	810	199	0.339	-1.82
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Normal	Normal	1862	1850	1200	2100	236	0.127	-1.36
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	16	11	69%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000222	0.000110	0.0000500	0.000500	0.000182	0.821	0.760
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal	Gamma	0.00106	0.000960	0.000470	0.00280	0.000531	0.500	2.48
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Nonparametric	Nonparametric	0.135	0.120	0.0250	0.460	0.0922	0.682	3.17
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	16	14	88%	2022-11-28 to 2025-08-11		Nonparametric	0.0000530	0.0000520	0.0000520	0.0000660	0.00000350	0.0661	3.87
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-28 to 2025-08-11		Nonparametric	0.000116	0.0000750	0.0000320	0.000380	0.000109	0.946	2.02
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.00374	0.00395	0.00100	0.00600	0.00129	0.346	-0.295
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.000429	0.000350	0.000110	0.000930	0.000222	0.516	0.825
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Lognormal	Lognormal	1.40	1.35	0.760	2.30	0.340	0.243	1.10
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	16	15	94%	2022-11-28 to 2025-08-11		Nonparametric	0.000407	0.000380	0.000100	0.00110	0.000318	0.780	1.26
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.0610	0.0615	0.0310	0.0740	0.0119	0.196	-1.03
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-28 to 2025-08-11		Nonparametric	140	160	0.210	160	54.1	0.386	-2.51
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-28 to 2025-08-11	Lognormal	Lognormal	0.00180	0.00115	0.000370	0.0110	0.00256	1.42	3.51
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	16	5	31%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.991	0.964	0.560	1.55	0.341	0.344	0.312
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	16	5	31%	2022-11-28 to 2025-08-11	Nonparametric	Nonparametric	0.000298	0.000220	0.000100	0.00120	0.000254	0.853	3.34
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-28 to 2025-08-11		Nonparametric	0.000228	0.000228	0.0000750	0.000380	0.000158	0.692	0
14_2_5_111	MW-04	Part 115	Copper	mg/L	16	13	81%	2022-11-28 to 2025-08-11		Nonparametric	0.000261	0.000200	0.000200	0.000990	0.000197	0.755	3.82
14_2_5_114	MW-04	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Nonparametric	Nonparametric	5.12	5.60	0.190	6.80	1.97	0.384	-1.92
14_2_5_119	MW-04	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Normal	Normal	0.0137	0.0130	0.00190	0.0220	0.00567	0.413	-0.785
14_2_5_123	MW-04	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-11		Nonparametric	0.000100	0.0000500	0.0000500	0.000250	0.0000894	0.894	1.28
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	16	10	62%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000760	0.000620	0.000620	0.00120	0.000212	0.278	1.18
14_2_5_129	MW-04	Part 115	Zinc	mg/L	16	10	62%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.00206	0.00120	0.00120	0.00590	0.00158	0.771	1.75
16_1_3_105	MW-06	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	9.28	9.60	6.40	12.0	1.64	0.176	-0.264
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	249	245	200	310	34	0.136	0.575
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	68.2	65.0	13.0	160	38.5	0.564	0.770
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.20	1.15	0.980	1.60	0.192	0.160	0.767
16_1_3_120	MW-06	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	7.24	7.28	6.42	7.49	0.237	0.0327	-3.05
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	16	2	12%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Gamma	10.3	9.30	0.410	30.0	8.50	0.822	0.771
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14		Nonparametric	1200	1200	1100	1300	63.2	0.0527	0
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000168	0.000100	0.0000500	0.000500	0.000151	0.900	1.64
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000673	0.000635	0.000470	0.00100	0.000165	0.245	0.848
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Normal	Normal	1.42	1.40	0.990	1.70	0.163	0.114	-0.955
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-29 to 2025-08-14		Nonparametric	0.0000521	0.0000520	0.0000520	0.0000540	0.000000500	0.00959	4.0
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-29 to 2025-08-14		Nonparametric	0.000116	0.0000750	0.0000320	0.000380	0.000109	0.946	2.02
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.00160	0.00140	0.000950	0.00300	0.000553	0.346	1.24
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000505	0.000465	0.000330	0.000800	0.000142	0.282	0.838

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.20	1.15	0.980	1.60	0.192	0.160	0.767
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	16	10	62%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Nonparametric	0.000332	0.000225	0.000100	0.00110	0.000327	0.984	1.81
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.176	0.180	0.110	0.230	0.0393	0.224	-0.137
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	140	160	0.530	160	54.4	0.389	-2.51
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	16	10	62%	2022-11-29 to 2025-08-14	Lognormal	Nonparametric	0.000556	0.000275	0.000250	0.00310	0.000698	1.26	3.63
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.855	0.811	0.460	1.91	0.335	0.392	2.24
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	16	5	31%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.000231	0.000220	0.000160	0.000470	0.0000689	0.298	3.09
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-29 to 2025-08-14		Nonparametric	0.000151	0.0000750	0.0000750	0.000380	0.000136	0.901	1.28
16_1_5_111	MW-06	Part 115	Copper	mg/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.000225	0.000200	0.000200	0.000380	0.0000513	0.228	2.26
16_1_5_114	MW-06	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Normal	Normal	17.1	17.0	4.60	31.0	6.76	0.397	0.188
16_1_5_119	MW-06	Part 115	Nickel	mg/L	16	6	38%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000850	0.000865	0.000650	0.00120	0.000189	0.222	0.350
16_1_5_123	MW-06	Part 115	Silver	mg/L	16	16	100%	2022-11-29 to 2025-08-14		Nonparametric	0.000100	0.0000500	0.0000500	0.000250	0.0000894	0.893	1.28
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000628	0.000620	0.000620	0.000700	0.0000205	0.0327	3.36
16_1_5_129	MW-06	Part 115	Zinc	mg/L	16	2	12%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.0194	0.00175	0.00120	0.0940	0.0330	1.70	1.49
17_1_3_105	MW-07	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	11.1	11.0	8.80	13.0	1.11	0.100	-0.0529
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	146	150	120	160	12.1	0.0830	-0.554
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	14.5	14.0	13.0	17.0	1.26	0.0872	0.904
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	16	4	25%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.106	0.110	0.0550	0.190	0.0381	0.360	0.496
17_1_3_120	MW-07	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	6.88	6.88	6.58	7.05	0.124	0.0180	-1.18
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	25.6	27.0	15.0	37.0	7.76	0.304	0.00175
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Normal	Normal	655	670	470	740	77.1	0.118	-1.39
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	16	15	94%	2022-11-30 to 2025-08-13		Nonparametric	0.0000857	0.000100	0.0000500	0.000100	0.0000225	0.262	-1.03
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000209	0.000210	0.000130	0.000290	0.0000365	0.175	-0.0738
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.351	0.350	0.250	0.420	0.0392	0.112	-0.818
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-30 to 2025-08-13		Nonparametric	0.0000537	0.0000520	0.0000520	0.0000660	0.00000416	0.0775	2.52
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-30 to 2025-08-13		Nonparametric	0.0000616	0.0000750	0.0000320	0.0000750	0.0000206	0.334	-0.895
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal	Gamma	0.000366	0.000335	0.000280	0.000740	0.000110	0.300	2.87
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000922	0.000960	0.000710	0.00110	0.000115	0.125	-0.282
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	16	4	25%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.106	0.110	0.0550	0.190	0.0381	0.360	0.496
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	16	16	100%	2022-11-30 to 2025-08-13		Nonparametric	0.000138	0.000100	0.000100	0.000220	0.0000574	0.418	0.895
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00609	0.00570	0.00310	0.0100	0.00158	0.259	0.705
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-13		Nonparametric	140	160	0.160	160	54.6	0.390	-2.51
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	16	16	100%	2022-11-30 to 2025-08-13		Nonparametric	0.000366	0.000250	0.000250	0.000620	0.000177	0.484	0.895
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	16	2	12%	2022-11-30 to 2025-08-13	Gamma; Lognormal	Gamma	0.976	0.885	0.570	2.36	0.418	0.428	2.63
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	16	9	56%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000154	0.000125	0.000100	0.000230	0.0000566	0.366	0.343
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-13		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
17_1_5_111	MW-07	Part 115	Copper	mg/L	16	12	75%	2022-11-30 to 2025-08-13		Nonparametric	0.000234	0.000200	0.000200	0.000620	0.000105	0.448	3.79
17_1_5_114	MW-07	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	16.4	16.5	13.0	21.0	2.39	0.146	0.260
17_1_5_119	MW-07	Part 115	Nickel	mg/L	16	14	88%	2022-11-30 to 2025-08-13		Nonparametric	0.000623	0.000650	0.000160	0.000710	0.000124	0.200	-3.89
17_1_5_123	MW-07	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-13		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	16	12	75%	2022-11-30 to 2025-08-13		Nonparametric	0.000669	0.000620	0.000620	0.000950	0.0000963	0.144	2.06
17_1_5_129	MW-07	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.00599	0.00120	0.00120	0.0250	0.00847	1.41	1.48

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
18_1_3_105	MW-08	Appendix III	Boron	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Lognormal; Normal	Normal	6.07	6.80	2.50	9.30	1.87	0.309	-0.336
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	138	135	120	160	14.4	0.105	0.192
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Nonparametric	Nonparametric	37.3	29.5	17.0	110	27	0.723	2.29
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Normal	Normal	0.913	0.970	0.400	1.30	0.255	0.279	-0.701
18_1_3_120	MW-08	Appendix III	pH (field)	su	16	0	0%	2022-12-01 to 2025-08-14	Nonparametric	Nonparametric	7.18	7.25	6.21	7.51	0.285	0.0397	-2.86
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	16	4	25%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Gamma	15.9	6.30	0.410	65.0	19.2	1.20	1.45
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	561	550	440	780	81.6	0.145	1.23
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	16	8	50%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Nonparametric	0.000123	0.000100	0.0000540	0.000280	0.0000538	0.437	1.94
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Normal	Normal	0.0356	0.0395	0.00690	0.0500	0.0135	0.380	-0.933
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.19	1.20	0.750	1.50	0.203	0.170	-0.550
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	16	15	94%	2022-12-01 to 2025-08-14		Nonparametric	0.0000562	0.0000520	0.0000520	0.000120	0.0000170	0.302	4.00
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	16	15	94%	2022-12-01 to 2025-08-14		Nonparametric	0.0000638	0.0000750	0.0000320	0.000110	0.0000237	0.372	-0.267
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000814	0.000730	0.000430	0.00150	0.000260	0.320	1.22
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000509	0.000480	0.000260	0.000980	0.000195	0.383	0.914
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Normal	Normal	0.913	0.970	0.400	1.30	0.255	0.279	-0.701
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	16	10	62%	2022-12-01 to 2025-08-14	Gamma; Lognormal	Nonparametric	0.000361	0.000105	0.000100	0.00290	0.000703	1.95	3.59
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.100	0.104	0.0630	0.140	0.0254	0.254	0.113
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	16	15	94%	2022-12-01 to 2025-08-14		Nonparametric	140	160	0.160	160	54.5	0.389	-2.51
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	16	1	6%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00141	0.00155	0.000250	0.00290	0.000886	0.627	0.187
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.03	0.958	0.550	2.10	0.408	0.395	1.32
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	16	6	38%	2022-12-01 to 2025-08-14	Lognormal	Lognormal	0.000187	0.000170	0.000100	0.000340	0.0000668	0.357	0.917
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	16	15	94%	2022-12-01 to 2025-08-14		Nonparametric	0.0000784	0.0000750	0.0000750	0.000130	0.0000138	0.175	4.00
18_1_5_111	MW-08	Part 115	Copper	mg/L	16	5	31%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000344	0.000285	0.000200	0.000800	0.000177	0.513	1.46
18_1_5_114	MW-08	Part 115	Iron	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	19.4	19.0	10.0	32.0	5.76	0.296	0.705
18_1_5_119	MW-08	Part 115	Nickel	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Nonparametric	Nonparametric	0.00270	0.00130	0.000850	0.0130	0.00307	1.14	2.85
18_1_5_123	MW-08	Part 115	Silver	mg/L	16	16	100%	2022-12-01 to 2025-08-14		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	16	14	88%	2022-12-01 to 2025-08-14		Nonparametric	0.000617	0.000620	0.000290	0.000910	0.000113	0.184	-0.528
18_1_5_129	MW-08	Part 115	Zinc	mg/L	16	3	19%	2022-12-01 to 2025-08-14	Nonparametric	Nonparametric	0.0275	0.00175	0.00120	0.160	0.0502	1.82	1.87
19_2_3_105	MW-09	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	5.69	5.75	4.90	6.90	0.556	0.0976	0.323
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	387	405	230	510	86.1	0.222	-0.237
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Lognormal	Lognormal	23.9	17.5	11.0	67.0	16.9	0.706	1.75
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	2.56	2.55	2.10	2.90	0.250	0.0979	-0.128
19_2_3_120	MW-09	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.21	7.21	7.00	7.52	0.118	0.0164	1.09
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Normal	Normal	502	540	83.0	930	261	0.520	-0.204
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1469	1550	740	2000	357	0.243	-0.472
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	16	11	69%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000171	0.000100	0.0000500	0.000500	0.000149	0.872	1.69
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.00214	0.00230	0.00130	0.00300	0.000525	0.246	-0.447
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Lognormal	Lognormal	0.376	0.200	0.0970	2.40	0.554	1.47	3.68
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-28 to 2025-08-13		Nonparametric	0.0000588	0.0000520	0.0000520	0.000150	0.0000244	0.415	3.96
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.000108	0.0000750	0.0000320	0.000380	0.000111	1.03	2.17
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00237	0.00230	0.00160	0.00320	0.000507	0.213	0.171
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000498	0.000495	0.000230	0.000990	0.000222	0.447	0.585

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	2.56	2.55	2.10	2.90	0.250	0.0979	-0.128
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.000347	0.000220	0.000100	0.00110	0.000337	0.970	1.50
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.303	0.305	0.260	0.340	0.0265	0.0875	-0.189
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-28 to 2025-08-13		Nonparametric	401	160	0.160	2400	726	1.81	2.51
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.0220	0.0210	0.00970	0.0330	0.00633	0.287	-0.262
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.757	0.774	0.450	0.980	0.119	0.158	-0.694
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	16	2	12%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.000291	0.000265	0.000120	0.000640	0.000114	0.392	1.99
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.000189	0.0000750	0.0000750	0.000380	0.000152	0.805	0.571
19_2_5_111	MW-09	Part 115	Copper	mg/L	16	11	69%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Nonparametric	0.000303	0.000200	0.000200	0.00130	0.000274	0.905	3.62
19_2_5_114	MW-09	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	20.4	19.5	13.0	26.0	4.27	0.210	-0.114
19_2_5_119	MW-09	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Lognormal	Nonparametric	0.00926	0.00200	0.000720	0.100	0.0243	2.63	3.92
19_2_5_123	MW-09	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.0000875	0.0000500	0.0000500	0.000250	0.0000806	0.921	1.77
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000611	0.000620	0.000470	0.000620	0.0000375	0.0614	-4.0
19_2_5_129	MW-09	Part 115	Zinc	mg/L	16	8	50%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.00578	0.00135	0.00120	0.0250	0.00748	1.29	1.66
20_3_3_105	MW-10	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	17.5	19.0	4.50	28.0	8.00	0.456	-0.241
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	296	275	160	590	114	0.385	1.36
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	301	275	92.0	700	183	0.607	1.11
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	5.30	5.70	2.70	7.70	1.58	0.298	-0.315
20_3_3_120	MW-10	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	Lognormal; Normal	Normal	7.77	7.78	7.05	8.81	0.379	0.0488	1.03
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	608	470	140	1700	397	0.653	1.43
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	2050	1850	1500	3200	487	0.238	1.23
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.000171	0.000100	0.0000500	0.000500	0.000147	0.860	1.67
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000767	0.000640	0.000200	0.00200	0.000504	0.657	1.20
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.296	0.280	0.140	0.570	0.111	0.373	0.980
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	16	7	44%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.0000786	0.0000540	0.0000520	0.000220	0.0000473	0.602	2.23
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-29 to 2025-08-14		Nonparametric	0.000116	0.0000750	0.0000320	0.000380	0.000109	0.946	2.02
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00384	0.00405	0.00130	0.00850	0.00195	0.509	0.910
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.000484	0.000390	0.000100	0.00180	0.000404	0.836	2.54
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	5.30	5.70	2.70	7.70	1.58	0.298	-0.315
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000409	0.000225	0.000100	0.00110	0.000379	0.927	1.12
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.938	0.940	0.540	1.60	0.247	0.263	0.955
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	249	160	0.160	1900	444	1.78	3.89
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00308	0.00305	0.000650	0.00720	0.00174	0.565	0.795
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.839	0.788	0.590	1.36	0.207	0.247	1.20
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	16	1	6%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.000355	0.000330	0.000190	0.000830	0.000144	0.405	2.56
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-29 to 2025-08-14		Nonparametric	0.000208	0.0000755	0.0000750	0.000380	0.000156	0.749	0.279
20_3_5_111	MW-10	Part 115	Copper	mg/L	16	13	81%	2022-11-29 to 2025-08-14		Nonparametric	0.000298	0.000200	0.000200	0.00130	0.000280	0.938	3.49
20_3_5_114	MW-10	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	5.06	4.85	2.40	7.70	1.71	0.337	0.156
20_3_5_119	MW-10	Part 115	Nickel	mg/L	16	7	44%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.000844	0.000775	0.000650	0.00180	0.000297	0.352	2.52
20_3_5_123	MW-10	Part 115	Silver	mg/L	16	16	100%	2022-11-29 to 2025-08-14		Nonparametric	0.000100	0.0000500	0.0000500	0.000250	0.0000894	0.893	1.28
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.000741	0.000620	0.000620	0.00130	0.000229	0.309	1.74
20_3_5_129	MW-10	Part 115	Zinc	mg/L	16	7	44%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.00478	0.00120	0.00120	0.0190	0.00622	1.30	1.43

(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
21_2_3_105	MW-11	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	5.88	5.00	1.50	13.0	3.34	0.568	0.823
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	262	270	130	380	68.5	0.262	-0.323
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	68.4	71.5	38.0	95.0	17.6	0.258	-0.173
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.624	0.625	0.210	1.40	0.342	0.548	0.851
21_2_3_120	MW-11	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	7.30	7.32	7.09	7.47	0.104	0.0143	-0.365
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	16	6	38%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	36.8	7.70	0.410	210	65.8	1.79	2.10
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	1055	1000	680	1800	244	0.232	1.83
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.000177	0.000100	0.0000500	0.000690	0.000180	1.01	2.13
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00167	0.00155	0.000610	0.00410	0.000789	0.473	2.0
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.647	0.580	0.360	1.20	0.203	0.314	1.31
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-29 to 2025-08-14		Nonparametric	0.0000809	0.0000520	0.0000520	0.000440	0.0000966	1.19	3.89
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000138	0.0000750	0.0000320	0.000730	0.000179	1.30	2.89
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.00140	0.000890	0.000450	0.00860	0.00195	1.40	3.81
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.000598	0.000400	0.000230	0.00240	0.000540	0.904	2.83
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.624	0.625	0.210	1.40	0.342	0.548	0.851
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16	3	19%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.00564	0.000465	0.000170	0.0680	0.0168	2.97	3.89
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.0660	0.0535	0.00590	0.220	0.0553	0.837	1.66
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-29 to 2025-08-14		Nonparametric	199	160	0.880	1100	246	1.24	3.65
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00129	0.000995	0.000430	0.00300	0.000807	0.625	1.14
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	15	4	27%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.972	0.852	0.460	1.76	0.376	0.387	0.952
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16	3	19%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.000244	0.000215	0.000140	0.000710	0.000141	0.580	2.75
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-29 to 2025-08-14		Nonparametric	0.000141	0.0000750	0.0000750	0.000380	0.000123	0.877	1.54
21_2_5_111	MW-11	Part 115	Copper	mg/L	16	4	25%	2022-11-29 to 2025-08-14	Lognormal	Nonparametric	0.00169	0.000295	0.000200	0.0190	0.00465	2.75	3.91
21_2_5_114	MW-11	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	7.22	7.35	3.60	11.0	2.36	0.327	-0.103
21_2_5_119	MW-11	Part 115	Nickel	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.00190	0.00140	0.000650	0.00940	0.00206	1.09	3.61
21_2_5_123	MW-11	Part 115	Silver	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.0000881	0.0000500	0.0000500	0.000250	0.0000727	0.825	1.69
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	16	13	81%	2022-11-29 to 2025-08-14		Nonparametric	0.000772	0.000620	0.000620	0.00300	0.000594	0.769	4.0
21_2_5_129	MW-11	Part 115	Zinc	mg/L	16	4	25%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Gamma	0.0193	0.00420	0.00120	0.100	0.0268	1.38	2.02
22_2_3_105	MW-12	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.311	0.300	0.190	0.440	0.0866	0.279	0.0901
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	65.8	66.5	40.0	95.0	18.0	0.274	-0.0121
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Lognormal	Lognormal	19.0	17.5	12.0	27.0	4.69	0.247	0.700
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.324	0.285	0.200	0.540	0.105	0.325	0.836
22_2_3_120	MW-12	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.66	7.66	7.00	8.32	0.327	0.0427	0.184
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	104	105	52.0	180	40.5	0.388	0.495
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	279	285	100	420	86.3	0.310	-0.305
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000684	0.000660	0.000240	0.00150	0.000325	0.475	0.996
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00246	0.00215	0.00140	0.00520	0.00100	0.408	1.34
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.0452	0.0350	0.0170	0.110	0.0280	0.620	1.31
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.0000520	0.0000520	0.0000520	0.0000520	0	0	NA
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.00206	0.00130	0.000540	0.0110	0.00251	1.22	3.36
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	16	6	38%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000452	0.000375	0.000200	0.000990	0.000292	0.645	0.938
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	16	5	31%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000347	0.000170	0.000100	0.00130	0.000349	1.01	1.75

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.324	0.285	0.200	0.540	0.105	0.325	0.836
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	16	6	38%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000254	0.000220	0.000100	0.000510	0.000120	0.470	1.04
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00371	0.00370	0.00190	0.00640	0.00149	0.402	0.315
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	16	12	75%	2022-11-28 to 2025-08-13		Nonparametric	144	160	0.830	230	58.7	0.406	-1.98
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.00777	0.00705	0.00460	0.0180	0.00311	0.400	2.52
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.647	0.608	0.459	1.09	0.163	0.251	1.52
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Gamma	0.00119	0.000910	0.000130	0.00430	0.00110	0.932	1.57
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
22_2_5_111	MW-12	Part 115	Copper	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00141	0.00125	0.000550	0.00340	0.000690	0.488	1.65
22_2_5_114	MW-12	Part 115	Iron	mg/L	16	6	38%	2022-11-28 to 2025-08-13	Lognormal	Lognormal	0.0805	0.0350	0.0210	0.400	0.106	1.31	2.42
22_2_5_119	MW-12	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00274	0.00255	0.00140	0.00620	0.00116	0.423	1.75
22_2_5_123	MW-12	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-13		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	16	6	38%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000956	0.000860	0.000620	0.00210	0.000420	0.440	1.63
22_2_5_129	MW-12	Part 115	Zinc	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.00906	0.00800	0.00270	0.0230	0.00492	0.543	1.74
28_1_3_105	MW-18	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	3.02	2.85	1.80	4.40	0.904	0.299	0.116
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	334	335	240	450	63.5	0.190	0.0326
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	23.2	24.0	16.0	32.0	4.52	0.195	-0.0111
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	3.90	3.80	2.70	5.10	0.688	0.176	0.180
28_1_3_120	MW-18	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	7.19	7.18	7.02	7.31	0.0824	0.0115	-0.358
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	809	765	480	1200	210	0.260	0.735
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	1381	1400	1100	1800	207	0.150	0.542
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-30 to 2025-08-12	Lognormal	Lognormal	0.000204	0.000135	0.000100	0.000500	0.000133	0.653	1.54
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0279	0.0285	0.0150	0.0440	0.00779	0.279	0.518
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0191	0.0195	0.0120	0.0280	0.00497	0.261	0.0876
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	16	14	88%	2022-11-30 to 2025-08-12		Nonparametric	0.0000525	0.0000520	0.0000520	0.0000590	0.00000175	0.0334	3.87
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	16	7	44%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.000177	0.000135	0.0000750	0.000440	0.000119	0.673	1.06
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	16	14	88%	2022-11-30 to 2025-08-12		Nonparametric	0.000224	0.000200	0.000180	0.000630	0.000110	0.490	3.84
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Lognormal	Lognormal	0.00269	0.00215	0.00110	0.00600	0.00147	0.545	1.33
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	3.90	3.80	2.70	5.10	0.688	0.176	0.180
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	16	10	62%	2022-11-30 to 2025-08-12	Lognormal	Nonparametric	0.000278	0.000220	0.000100	0.00110	0.000252	0.909	2.62
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Lognormal; Normal	Normal	0.0349	0.0355	0.0200	0.0450	0.00798	0.229	-0.264
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-12		Nonparametric	140	160	0.160	160	54.5	0.389	-2.51
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0152	0.0140	0.00900	0.0210	0.00390	0.257	0.239
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	2022-11-30 to 2025-08-12	Gamma; Lognormal	Nonparametric	0.652	0.605	0.462	1.27	0.194	0.298	2.37
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.000582	0.000375	0.000140	0.00200	0.000522	0.896	1.49
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-12		Nonparametric	0.000132	0.0000750	0.0000750	0.000380	0.000123	0.930	1.77
28_1_5_111	MW-18	Part 115	Copper	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Nonparametric	Nonparametric	0.000662	0.000475	0.000330	0.00170	0.000399	0.603	1.91
28_1_5_114	MW-18	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	6.57	6.50	4.30	10.0	1.50	0.229	0.697
28_1_5_119	MW-18	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal	Gamma	0.00626	0.00545	0.00320	0.0110	0.00238	0.380	1.07
28_1_5_123	MW-18	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-12		Nonparametric	0.0000875	0.0000500	0.0000500	0.000250	0.0000806	0.921	1.77
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	16	16	100%	2022-11-30 to 2025-08-12		Nonparametric	0.000599	0.000620	0.000280	0.000620	0.0000850	0.142	-4.00
28_1_5_129	MW-18	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0469	0.0440	0.0160	0.0880	0.0199	0.424	0.336

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
29_1_3_105	MW-19	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	2.06	2.00	1.50	2.70	0.416	0.202	0.120
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	464	470	360	550	52.9	0.114	-0.546
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	42.4	39.5	21.0	75.0	15.1	0.355	0.807
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	1.85	1.90	1.40	2.30	0.271	0.146	-0.0115
29_1_3_120	MW-19	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	6.83	6.85	6.39	7.07	0.156	0.0229	-1.33
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	992	980	600	1300	187	0.189	-0.0672
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	1856	1800	1600	2200	231	0.124	0.392
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-30 to 2025-08-12		Nonparametric	0.000218	0.000100	0.0000500	0.000720	0.000208	0.958	1.36
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.00496	0.00495	0.00240	0.00730	0.00167	0.337	-0.0997
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0390	0.0380	0.0300	0.0500	0.00540	0.139	0.553
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	16	3	19%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0000879	0.0000745	0.0000520	0.000260	0.0000501	0.570	2.99
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-30 to 2025-08-12		Nonparametric	0.000116	0.0000750	0.0000320	0.000380	0.000109	0.946	2.02
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	16	5	31%	2022-11-30 to 2025-08-12	Gamma; Lognormal	Gamma	0.000307	0.000270	0.000180	0.000880	0.000175	0.571	2.71
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	16	1	6%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.000523	0.000460	0.000100	0.00120	0.000326	0.622	0.546
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	1.85	1.90	1.40	2.30	0.271	0.146	-0.0115
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	16	16	100%	2022-11-30 to 2025-08-12		Nonparametric	0.000427	0.000360	0.000100	0.00110	0.000375	0.878	0.988
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0899	0.0895	0.0730	0.110	0.0114	0.126	0.210
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-12		Nonparametric	140	160	0.160	160	54.6	0.390	-2.51
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0110	0.0105	0.00390	0.0190	0.00404	0.367	0.504
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	16	7	44%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.763	0.663	0.514	1.17	0.237	0.310	0.640
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	16	11	69%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000206	0.000125	0.000100	0.00110	0.000244	1.18	3.71
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-12		Nonparametric	0.000228	0.000228	0.0000750	0.000380	0.000158	0.692	0
29_1_5_111	MW-19	Part 115	Copper	mg/L	16	13	81%	2022-11-30 to 2025-08-12		Nonparametric	0.000273	0.000200	0.000200	0.00100	0.000203	0.743	3.48
29_1_5_114	MW-19	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	16.6	16.0	12.0	24.0	3.40	0.205	0.716
29_1_5_119	MW-19	Part 115	Nickel	mg/L	16	1	6%	2022-11-30 to 2025-08-12	Lognormal	Lognormal	0.00320	0.00245	0.00110	0.0170	0.00378	1.18	3.67
29_1_5_123	MW-19	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-12		Nonparametric	0.000100	0.0000500	0.0000500	0.000250	0.0000894	0.894	1.28
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	16	14	88%	2022-11-30 to 2025-08-12		Nonparametric	0.000774	0.000620	0.000550	0.00310	0.000621	0.802	3.99
29_1_5_129	MW-19	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Nonparametric	0.00222	0.00120	0.00120	0.00590	0.00157	0.704	1.36
30_1_3_105	MW-20	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.976	0.895	0.720	1.40	0.200	0.205	0.712
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Normal	Normal	124	125	58.0	170	23.7	0.191	-1.02
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Normal	Normal	60.4	64.0	29.0	92.0	19.5	0.324	-0.290
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	0.259	0.245	0.120	0.550	0.0886	0.342	2.36
30_1_3_120	MW-20	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.35	7.34	7.14	7.50	0.105	0.0142	-0.510
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	57.2	51.0	18.0	120	31.5	0.550	0.596
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	652	650	510	840	86.6	0.133	0.448
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	16	6	38%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000102	0.000100	0.0000540	0.000160	0.0000268	0.264	0.193
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00144	0.00140	0.00100	0.00190	0.000301	0.209	0.225
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Lognormal	Lognormal	0.521	0.465	0.310	0.940	0.165	0.317	1.49
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-30 to 2025-08-13		Nonparametric	0.0000524	0.0000520	0.0000520	0.0000590	0.00000175	0.0334	4.00
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-30 to 2025-08-13		Nonparametric	0.0000616	0.0000750	0.0000320	0.0000750	0.0000206	0.334	-0.895
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	16	8	50%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000214	0.000200	0.000180	0.000290	0.0000287	0.134	1.59
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00115	0.00110	0.000690	0.00160	0.000274	0.238	0.118

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	0.259	0.245	0.120	0.550	0.0886	0.342	2.36
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00192	0.00180	0.00120	0.00280	0.000492	0.256	0.448
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.0583	0.0610	0.0290	0.0830	0.0156	0.268	-0.454
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-30 to 2025-08-13		Nonparametric	141	160	5.10	160	52.9	0.376	-2.51
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00438	0.00430	0.00330	0.00580	0.000696	0.159	0.301
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	15	7	47%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.688	0.581	0.467	1.47	0.275	0.400	2.01
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	16	10	62%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	0.000152	0.000120	0.000100	0.000260	0.0000608	0.399	0.588
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-30 to 2025-08-13		Nonparametric	0.0000772	0.0000750	0.0000750	0.000110	0.00000875	0.113	4.00
30_1_5_111	MW-20	Part 115	Copper	mg/L	16	2	12%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000338	0.000270	0.000200	0.000820	0.000167	0.494	1.86
30_1_5_114	MW-20	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	18.4	18.5	14.0	22.0	2.50	0.136	-0.368
30_1_5_119	MW-20	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00801	0.00820	0.00450	0.00990	0.00158	0.198	-0.711
30_1_5_123	MW-20	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-13		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	16	16	100%	2022-11-30 to 2025-08-13		Nonparametric	0.000599	0.000620	0.000280	0.000620	0.0000850	0.142	-4.00
30_1_5_129	MW-20	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Lognormal	Lognormal	0.0326	0.0265	0.0130	0.0710	0.0181	0.554	1.10
40_1_3_105	MW-30	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Lognormal	Lognormal	1.96	1.90	1.40	3.50	0.456	0.232	2.72
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	522	465	390	960	152	0.290	1.96
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	340	165	82.0	1200	402	1.18	1.63
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	1.09	1.10	0.570	1.40	0.178	0.163	-1.55
40_1_3_120	MW-30	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	7.04	7.07	6.48	7.25	0.188	0.0267	-1.94
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Normal	Normal	862	900	440	1000	153	0.177	-1.72
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	2575	2250	1800	4300	787	0.306	1.53
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	16	14	88%	2022-11-30 to 2025-08-11		Nonparametric	0.000228	0.000100	0.0000500	0.000650	0.000207	0.905	0.941
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	16	2	12%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	0.000756	0.000480	0.000100	0.00300	0.000783	1.04	2.12
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.0675	0.0640	0.0410	0.100	0.0202	0.300	0.516
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-30 to 2025-08-11		Nonparametric	0.0000823	0.0000520	0.0000520	0.000260	0.0000708	0.861	2.34
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-30 to 2025-08-11		Nonparametric	0.000135	0.0000750	0.0000320	0.000380	0.000127	0.943	1.46
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.00880	0.00840	0.00310	0.0140	0.00323	0.367	-0.0384
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.00413	0.00110	0.000470	0.0460	0.0112	2.72	3.94
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	1.09	1.10	0.570	1.40	0.178	0.163	-1.55
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	0.000602	0.000500	0.000100	0.00170	0.000434	0.721	1.23
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	0.141	0.125	0.100	0.270	0.0429	0.304	2.04
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	154	160	0.160	390	83.1	0.538	0.763
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	16	3	19%	2022-11-30 to 2025-08-11	Lognormal	Nonparametric	0.00264	0.00115	0.000320	0.0190	0.00451	1.71	3.58
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	16	8	50%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.696	0.641	0.445	1.12	0.183	0.264	0.802
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	16	7	44%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	0.000257	0.000195	0.000100	0.00110	0.000250	0.973	2.91
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-11		Nonparametric	0.000285	0.000380	0.0000750	0.000380	0.000146	0.513	-0.895
40_1_5_111	MW-30	Part 115	Copper	mg/L	16	11	69%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000339	0.000200	0.000200	0.00100	0.000273	0.806	2.07
40_1_5_114	MW-30	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	4.18	2.90	0.870	17.0	3.97	0.951	2.54
40_1_5_119	MW-30	Part 115	Nickel	mg/L	16	3	19%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.00885	0.00180	0.000650	0.110	0.0270	3.05	3.98
40_1_5_123	MW-30	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-11		Nonparametric	0.000112	0.0000500	0.0000500	0.000250	0.0000957	0.851	0.895
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	0.000921	0.000620	0.000470	0.00310	0.000852	0.925	2.50
40_1_5_129	MW-30	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-11	Lognormal	Nonparametric	0.00838	0.00120	0.00110	0.100	0.0245	2.92	3.97

(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
41_1_3_105	MW-31	Appendix III	Boron	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	4.72	4.50	3.60	6.40	0.744	0.158	0.696
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	170	170	130	200	20.3	0.120	0
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Nonparametric	Nonparametric	107	100	87.0	170	18.9	0.177	2.71
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	4.66	4.65	4.00	5.20	0.324	0.0697	-0.260
41_1_3_120	MW-31	Appendix III	pH (field)	su	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	7.83	7.81	7.67	8.02	0.106	0.0136	0.659
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	152	155	45.0	250	72	0.472	0.0620
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	818	810	730	960	72.8	0.0890	0.646
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	16	7	44%	2022-12-01 to 2025-08-12	Gamma; Lognormal	Gamma	0.000233	0.000100	0.0000500	0.00110	0.000287	1.23	2.33
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.00127	0.00120	0.000730	0.00190	0.000317	0.249	0.526
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.173	0.160	0.0990	0.290	0.0523	0.302	0.779
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	16	14	88%	2022-12-01 to 2025-08-12		Nonparametric	0.0000549	0.0000520	0.0000520	0.0000960	0.0000110	0.200	3.99
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	16	15	94%	2022-12-01 to 2025-08-12		Nonparametric	0.0000621	0.0000750	0.0000320	0.0000840	0.0000211	0.340	-0.852
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.00237	0.00225	0.00170	0.00410	0.000627	0.265	1.53
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	2022-12-01 to 2025-08-12	Gamma; Lognormal	Gamma	0.000171	0.000160	0.000100	0.000360	0.0000698	0.408	1.47
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	4.66	4.65	4.00	5.20	0.324	0.0697	-0.260
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	16	13	81%	2022-12-01 to 2025-08-12		Nonparametric	0.000169	0.000160	0.000100	0.000310	0.0000749	0.442	0.328
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0488	0.0515	0.0300	0.0630	0.00795	0.163	-0.770
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	16	14	88%	2022-12-01 to 2025-08-12		Nonparametric	140	160	0.710	160	54.2	0.387	-2.51
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Nonparametric	Nonparametric	0.00168	0.00115	0.000400	0.00910	0.00202	1.20	3.72
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	16	6	38%	2022-12-01 to 2025-08-12	Gamma; Lognormal	Gamma	0.696	0.642	0.497	1.23	0.208	0.298	1.84
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	16	6	38%	2022-12-01 to 2025-08-12	Nonparametric	Nonparametric	0.000201	0.000155	0.000100	0.000740	0.000152	0.760	3.28
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	16	15	94%	2022-12-01 to 2025-08-12		Nonparametric	0.0000758	0.0000750	0.0000750	0.0000880	0.00000325	0.0429	4.00
41_1_5_111	MW-31	Part 115	Copper	mg/L	16	10	62%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000242	0.000200	0.000200	0.000440	0.0000695	0.287	1.86
41_1_5_114	MW-31	Part 115	Iron	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Nonparametric	Nonparametric	0.726	0.500	0.120	2.50	0.687	0.945	1.21
41_1_5_119	MW-31	Part 115	Nickel	mg/L	16	10	62%	2022-12-01 to 2025-08-12	Lognormal	Nonparametric	0.0174	0.000650	0.000650	0.240	0.0596	3.43	3.94
41_1_5_123	MW-31	Part 115	Silver	mg/L	16	16	100%	2022-12-01 to 2025-08-12		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	16	12	75%	2022-12-01 to 2025-08-12		Nonparametric	0.000633	0.000620	0.000450	0.000830	0.0000777	0.123	0.597
41_1_5_129	MW-31	Part 115	Zinc	mg/L	16	9	56%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Nonparametric	0.00358	0.00120	0.00120	0.0130	0.00412	1.15	1.45
42_1_3_105	MW-32	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	3.60	3.10	2.60	5.60	0.916	0.254	1.12
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	171	170	130	220	24.7	0.144	0.169
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	45.9	46.5	38.0	53.0	4.51	0.0984	-0.279
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Lognormal; Normal	Normal	1.52	1.50	1.20	1.90	0.164	0.108	0.691
42_1_3_120	MW-32	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	7.61	7.61	7.50	7.75	0.0717	0.00943	0.156
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Gamma	76.1	68.5	5.90	190	61.4	0.807	0.417
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	682	685	550	800	86.7	0.127	-0.0612
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-30 to 2025-08-11		Nonparametric	0.000130	0.000100	0.0000500	0.000700	0.000154	1.18	3.85
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.000639	0.000535	0.000390	0.00240	0.000476	0.744	3.82
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.621	0.585	0.0590	1.30	0.324	0.522	0.491
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	0.0000531	0.0000520	0.0000520	0.0000700	0.00000450	0.0847	4.00
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	0.0000688	0.0000750	0.0000320	0.000190	0.0000382	0.555	2.11
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.000576	0.000380	0.000310	0.00300	0.000655	1.14	3.84
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	0.000502	0.000385	0.000210	0.00190	0.000395	0.786	3.31

(Table continues on next page)

^a Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit ^a	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Lognormal; Normal	Normal	1.52	1.50	1.20	1.90	0.164	0.108	0.691
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	16	11	69%	2022-11-30 to 2025-08-11	Lognormal; Normal	Nonparametric	0.000197	0.000180	0.000100	0.000420	0.000112	0.570	0.994
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.130	0.125	0.0940	0.200	0.0327	0.252	0.913
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-30 to 2025-08-11		Nonparametric	249	160	0.160	1900	444	1.78	3.89
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.00405	0.00405	0.00250	0.00730	0.00119	0.295	1.13
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.664	0.605	0.497	0.985	0.146	0.219	1.04
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	16	13	81%	2022-11-30 to 2025-08-11		Nonparametric	0.000198	0.000115	0.000100	0.00100	0.000221	1.11	3.60
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-11		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	16	9	56%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.00122	0.000200	0.000200	0.0160	0.00394	3.22	4.0
42_1_5_114	MW-32	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	15.6	15.5	11.0	20.0	2.80	0.180	-0.273
42_1_5_119	MW-32	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.00245	0.000980	0.000680	0.0230	0.00549	2.24	3.98
42_1_5_123	MW-32	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-11		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	16	16	100%	2022-11-30 to 2025-08-11		Nonparametric	0.000599	0.000620	0.000280	0.000620	0.0000850	0.142	-4.00
42_1_5_129	MW-32	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.0141	0.00360	0.00220	0.0680	0.0213	1.51	1.85

^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
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	108	110	38.0	160	36.0	0.332	-0.335
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	234	225	130	400	76.5	0.326	0.685
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Normal	Normal	131	140	49.0	210	46.4	0.353	-0.475
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Normal	Normal	11.9	14.0	4.80	16.0	3.53	0.296	-0.657
11_2_3_120	MW-01R	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	7.62	7.74	6.02	7.81	0.432	0.0568	-3.79
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Gamma	432	375	8.80	980	299	0.693	0.321
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	2350	2400	2100	2600	121	0.0515	-0.129
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.000343	0.000230	0.000170	0.00120	0.000294	0.858	2.53
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00156	0.00135	0.000730	0.00410	0.000754	0.485	2.74
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.351	0.315	0.200	0.560	0.119	0.338	0.632
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	16	2	12%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000221	0.000200	0.000120	0.000360	0.0000846	0.382	0.462
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	16	13	81%	2022-11-29 to 2025-08-13		Nonparametric	0.000171	0.000110	0.0000620	0.000340	0.000149	0.871	1.53
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00344	0.00200	0.00130	0.0220	0.00503	1.46	3.80
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00158	0.00110	0.000640	0.00450	0.00112	0.707	2.02
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Normal	Normal	11.9	14.0	4.80	16.0	3.53	0.296	-0.657
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	16	2	12%	2022-11-29 to 2025-08-13	Lognormal	Lognormal	0.00112	0.000770	0.000350	0.00530	0.00126	1.12	3.22
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	2.35	2.45	0.770	3.40	0.774	0.329	-0.433
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-29 to 2025-08-13		Nonparametric	0.520	0.520	0.520	0.520	NA	NA	NA
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-29 to 2025-08-13	Lognormal	Lognormal	0.00117	0.000750	0.000330	0.00560	0.00136	1.16	3.05
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	1.00	1.06	0.601	1.28	0.274	0.273	-0.629
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Lognormal	Gamma	0.000709	0.000650	0.000300	0.00180	0.000329	0.464	2.61
11_2_5_111	MW-01R	Part 115	Copper	mg/L	16	6	38%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.000492	0.000305	0.000270	0.00130	0.000359	0.730	1.83
11_2_5_114	MW-01R	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Gamma; Normal	Gamma	0.466	0.490	0.0590	1.10	0.356	0.764	0.367
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	16	0	0%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00340	0.00195	0.00120	0.0220	0.00505	1.49	3.78
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	16	2	12%	2022-11-29 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00221	0.00185	0.000670	0.00460	0.00123	0.556	0.762
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	16	3	19%	2022-11-29 to 2025-08-13	Nonparametric	Nonparametric	0.00992	0.00180	0.00120	0.0330	0.0114	1.15	1.06
12_2_3_105	MW-02	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	109	105	73.0	170	26.3	0.241	1.55
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	199	200	170	240	18.1	0.0906	0.416
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	140	140	67.0	160	21.2	0.151	-3.03
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	10.1	9.85	4.50	16.0	2.36	0.234	0.301
12_2_3_120	MW-02	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.20	7.16	7.06	7.45	0.108	0.0150	0.852
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	16	10	62%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	1.36	1.20	0.860	2.20	0.530	0.388	0.875
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1919	1900	1600	2600	237	0.124	1.49
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.000238	0.000190	0.000140	0.000630	0.000128	0.539	2.69
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.00748	0.00770	0.000440	0.0120	0.00247	0.330	-1.26
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.465	0.465	0.320	0.730	0.0998	0.215	0.919
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	16	1	6%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000277	0.000280	0.000120	0.000520	0.000116	0.421	0.620
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	16	11	69%	2022-11-28 to 2025-08-13	Lognormal	Nonparametric	0.000147	0.0000780	0.0000410	0.000490	0.000193	1.31	2.19
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.0416	0.0425	0.000380	0.0680	0.0190	0.457	-0.425
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.00607	0.00620	0.000240	0.00970	0.00248	0.409	-0.621
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	10.1	9.85	4.50	16.0	2.36	0.234	0.301
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	16	1	6%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00298	0.00240	0.00100	0.00600	0.00158	0.531	0.756
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1.47	1.45	0.870	2.30	0.336	0.229	0.938

(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
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-28 to 2025-08-13		Nonparametric	3.85	3.85	2.30	5.40	2.19	0.569	NA
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.00735	0.00570	0.00380	0.0160	0.00356	0.484	1.33
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	15	5	33%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1.57	1.40	0.708	3.35	0.798	0.508	1.39
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00126	0.00120	0.000500	0.00230	0.000444	0.352	0.438
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000620	0.000620	0.000620	0.000620	NA	NA	NA
12_2_5_111	MW-02	Part 115	Copper	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00201	0.00190	0.000230	0.00440	0.00107	0.533	0.617
12_2_5_114	MW-02	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	23.9	23.5	18.0	31.0	3.82	0.160	0.358
12_2_5_119	MW-02	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.0244	0.0225	0.000930	0.0530	0.0129	0.527	0.684
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	16	1	6%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00410	0.00360	0.00130	0.00690	0.00177	0.433	0.0723
12_2_5_129	MW-02	Part 115	Zinc	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.00861	0.00330	0.00160	0.0360	0.0109	1.26	1.61
13_2_3_105	MW-03	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	4.12	4.15	3.30	4.50	0.321	0.0779	-1.11
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	363	360	290	430	36.6	0.101	-0.0160
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	157	145	94.0	300	55	0.350	1.29
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.682	0.615	0.520	1.60	0.255	0.374	3.51
13_2_3_120	MW-03	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.37	7.36	7.20	7.59	0.0962	0.0131	0.556
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	354	335	34.0	760	214	0.604	0.283
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	2044	2100	1700	2300	253	0.124	-0.227
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	16	10	62%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Nonparametric	0.000171	0.000120	0.0000870	0.000450	0.000139	0.811	2.25
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000945	0.000940	0.000490	0.00140	0.000263	0.278	-0.160
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.356	0.370	0.130	0.500	0.0857	0.241	-1.05
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	16	10	62%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.0000947	0.0000655	0.0000530	0.000180	0.0000558	0.590	1.02
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00459	0.00455	0.00300	0.00730	0.00120	0.262	0.693
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000772	0.000655	0.000370	0.00130	0.000316	0.409	0.556
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.682	0.615	0.520	1.60	0.255	0.374	3.51
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000220	0.000220	0.000220	0.000220	NA	NA	NA
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.0383	0.0350	0.0290	0.0650	0.00926	0.242	1.78
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-28 to 2025-08-13		Nonparametric	80.4	0.770	0.390	240	138	1.72	1.73
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	16	12	75%	2022-11-28 to 2025-08-13		Nonparametric	0.000765	0.000785	0.000390	0.00110	0.000296	0.386	-0.377
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	15	1	7%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1.04	0.938	0.540	1.92	0.410	0.392	1.05
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	16	3	19%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000419	0.000410	0.000170	0.000620	0.000108	0.258	-0.446
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000180	0.000180	0.000180	0.000180	NA	NA	NA
13_2_5_111	MW-03	Part 115	Copper	mg/L	16	7	44%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.000481	0.000300	0.000220	0.00100	0.000335	0.695	0.878
13_2_5_114	MW-03	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Gamma	1.36	0.705	0.0980	5.90	1.57	1.16	1.95
13_2_5_119	MW-03	Part 115	Nickel	mg/L	16	1	6%	2022-11-28 to 2025-08-13	Nonparametric	Nonparametric	0.00228	0.00140	0.000850	0.0150	0.00354	1.55	3.80
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	16	9	56%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.00154	0.00150	0.00120	0.00220	0.000355	0.230	1.13
13_2_5_129	MW-03	Part 115	Zinc	mg/L	16	9	56%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.0105	0.0130	0.00130	0.0190	0.00838	0.802	-0.198
14_2_3_105	MW-04	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	4.06	4.00	3.50	4.70	0.342	0.0844	0.552
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	358	360	250	430	42.3	0.118	-0.787
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	156	155	21.0	300	67.5	0.434	0.121
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Lognormal	Lognormal	1.40	1.35	0.760	2.30	0.340	0.243	1.10
14_2_3_120	MW-04	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	7.35	7.34	7.22	7.66	0.114	0.0155	1.18
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Nonparametric	Nonparametric	587	620	1.80	810	199	0.339	-1.82

(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
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Normal	Normal	1862	1850	1200	2100	236	0.127	-1.36
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	16	11	69%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000240	0.000140	0.0000710	0.000460	0.000180	0.751	0.562
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal	Gamma	0.00106	0.000960	0.000470	0.00280	0.000531	0.500	2.48
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Nonparametric	Nonparametric	0.135	0.120	0.0250	0.460	0.0922	0.682	3.17
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	16	14	88%	2022-11-28 to 2025-08-11		Nonparametric	0.0000600	0.0000600	0.0000540	0.0000660	0.00000849	0.141	NA
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.00374	0.00395	0.00100	0.00600	0.00129	0.346	-0.295
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.000429	0.000350	0.000110	0.000930	0.000222	0.516	0.825
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Lognormal	Lognormal	1.40	1.35	0.760	2.30	0.340	0.243	1.10
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	16	15	94%	2022-11-28 to 2025-08-11		Nonparametric	0.000260	0.000260	0.000260	0.000260	NA	NA	NA
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.0610	0.0615	0.0310	0.0740	0.0119	0.196	-1.03
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-28 to 2025-08-11		Nonparametric	1.55	1.55	0.210	2.90	1.90	1.22	NA
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-28 to 2025-08-11	Lognormal	Lognormal	0.00179	0.00115	0.000370	0.0110	0.00270	1.51	3.50
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	16	5	31%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Normal	1.12	1.20	0.634	1.55	0.325	0.289	-0.396
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	16	5	31%	2022-11-28 to 2025-08-11	Nonparametric	Nonparametric	0.000345	0.000230	0.000170	0.00120	0.000297	0.862	2.83
14_2_5_111	MW-04	Part 115	Copper	mg/L	16	13	81%	2022-11-28 to 2025-08-11		Nonparametric	0.000527	0.000320	0.000270	0.000990	0.000402	0.763	1.70
14_2_5_114	MW-04	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Nonparametric	Nonparametric	5.12	5.60	0.190	6.80	1.97	0.384	-1.92
14_2_5_119	MW-04	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-11	Normal	Normal	0.0137	0.0130	0.00190	0.0220	0.00567	0.413	-0.785
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	16	10	62%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000993	0.00103	0.000750	0.00120	0.000172	0.174	-0.396
14_2_5_129	MW-04	Part 115	Zinc	mg/L	16	10	62%	2022-11-28 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.00348	0.00345	0.00150	0.00590	0.00190	0.547	0.111
16_1_3_105	MW-06	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	9.28	9.60	6.40	12.0	1.64	0.176	-0.264
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	249	245	200	310	34	0.136	0.575
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	68.2	65.0	13.0	160	38.5	0.564	0.770
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.20	1.15	0.980	1.60	0.192	0.160	0.767
16_1_3_120	MW-06	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	7.24	7.28	6.42	7.49	0.237	0.0327	-3.05
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	16	2	12%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Gamma	11.6	9.50	0.980	30.0	8.30	0.713	0.665
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14		Nonparametric	1200	1200	1100	1300	63.2	0.0527	0
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000218	0.000218	0.0000750	0.000360	0.000202	0.927	NA
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000673	0.000635	0.000470	0.00100	0.000165	0.245	0.848
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Normal	Normal	1.42	1.40	0.990	1.70	0.163	0.114	-0.955
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-29 to 2025-08-14		Nonparametric	0.0000520	0.0000520	0.0000520	0.0000520	NA	NA	NA
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.00160	0.00140	0.000950	0.00300	0.000553	0.346	1.24
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000505	0.000465	0.000330	0.000800	0.000142	0.282	0.838
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.20	1.15	0.980	1.60	0.192	0.160	0.767
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	16	10	62%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Nonparametric	0.000233	0.000240	0.000120	0.000350	0.0000787	0.337	0.0212
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.176	0.180	0.110	0.230	0.0393	0.224	-0.137
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.615	0.615	0.530	0.700	0.120	0.195	NA
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	16	10	62%	2022-11-29 to 2025-08-14	Lognormal	Nonparametric	0.000342	0.000275	0.000250	0.000560	0.000126	0.369	1.37
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.900	0.850	0.460	1.91	0.359	0.398	1.98
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	16	5	31%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.000236	0.000220	0.000160	0.000470	0.0000838	0.355	2.53
16_1_5_111	MW-06	Part 115	Copper	mg/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.000300	0.000285	0.000250	0.000380	0.0000560	0.187	1.44
16_1_5_114	MW-06	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Normal	Normal	17.1	17.0	4.60	31.0	6.76	0.397	0.188
16_1_5_119	MW-06	Part 115	Nickel	mg/L	16	6	38%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000970	0.000935	0.000790	0.00120	0.000130	0.134	0.468
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000670	0.000670	0.000640	0.000700	0.0000424	0.0633	NA

(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
16_1_5_129	MW-06	Part 115	Zinc	mg/L	16	2	12%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.0220	0.00180	0.00120	0.0940	0.0346	1.57	1.28
17_1_3_105	MW-07	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	11.1	11.0	8.80	13.0	1.11	0.100	-0.0529
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	146	150	120	160	12.1	0.0830	-0.554
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	14.5	14.0	13.0	17.0	1.26	0.0872	0.904
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	16	4	25%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.113	0.115	0.0680	0.190	0.0380	0.335	0.491
17_1_3_120	MW-07	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	6.88	6.88	6.58	7.05	0.124	0.0180	-1.18
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	25.6	27.0	15.0	37.0	7.76	0.304	0.00175
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Normal	Normal	655	670	470	740	77.1	0.118	-1.39
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	16	15	94%	2022-11-30 to 2025-08-13		Nonparametric	0.0000710	0.0000710	0.0000710	0.0000710	NA	NA	NA
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000209	0.000210	0.000130	0.000290	0.0000365	0.175	-0.0738
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.351	0.350	0.250	0.420	0.0392	0.112	-0.818
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-30 to 2025-08-13		Nonparametric	0.0000610	0.0000620	0.0000550	0.0000660	0.00000557	0.0913	-0.782
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal	Gamma	0.000366	0.000335	0.000280	0.000740	0.000110	0.300	2.87
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000922	0.000960	0.000710	0.00110	0.000115	0.125	-0.282
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	16	4	25%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.113	0.115	0.0680	0.190	0.0380	0.335	0.491
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00609	0.00570	0.00310	0.0100	0.00158	0.259	0.705
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-13		Nonparametric	0.240	0.240	0.240	0.240	NA	NA	NA
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	16	2	12%	2022-11-30 to 2025-08-13	Gamma; Lognormal	Gamma	0.999	0.903	0.570	2.36	0.441	0.442	2.46
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	16	9	56%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000139	0.000120	0.000100	0.000230	0.0000463	0.334	1.60
17_1_5_111	MW-07	Part 115	Copper	mg/L	16	12	75%	2022-11-30 to 2025-08-13		Nonparametric	0.000335	0.000255	0.000210	0.000620	0.000192	0.572	1.90
17_1_5_114	MW-07	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	16.4	16.5	13.0	21.0	2.39	0.146	0.260
17_1_5_119	MW-07	Part 115	Nickel	mg/L	16	14	88%	2022-11-30 to 2025-08-13		Nonparametric	0.000435	0.000435	0.000160	0.000710	0.000389	0.894	NA
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	16	12	75%	2022-11-30 to 2025-08-13		Nonparametric	0.000815	0.000780	0.000750	0.000950	0.0000915	0.112	1.81
17_1_5_129	MW-07	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.0140	0.0160	0.00130	0.0250	0.00964	0.690	-0.436
18_1_3_105	MW-08	Appendix III	Boron	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Lognormal; Normal	Normal	6.07	6.80	2.50	9.30	1.87	0.309	-0.336
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	138	135	120	160	14.4	0.105	0.192
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Nonparametric	Nonparametric	37.3	29.5	17.0	110	27	0.723	2.29
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Normal	Normal	0.913	0.970	0.400	1.30	0.255	0.279	-0.701
18_1_3_120	MW-08	Appendix III	pH (field)	su	16	0	0%	2022-12-01 to 2025-08-14	Nonparametric	Nonparametric	7.18	7.25	6.21	7.51	0.285	0.0397	-2.86
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	16	4	25%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Gamma	21	17.0	1.70	65.0	19.8	0.943	1.16
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	561	550	440	780	81.6	0.145	1.23
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	16	8	50%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Nonparametric	0.000146	0.000135	0.0000540	0.000280	0.0000706	0.483	0.839
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Normal	Normal	0.0356	0.0395	0.00690	0.0500	0.0135	0.380	-0.933
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.19	1.20	0.750	1.50	0.203	0.170	-0.550
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	16	15	94%	2022-12-01 to 2025-08-14		Nonparametric	0.000120	0.000120	0.000120	0.000120	NA	NA	NA
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	16	15	94%	2022-12-01 to 2025-08-14		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000814	0.000730	0.000430	0.00150	0.000260	0.320	1.22
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000509	0.000480	0.000260	0.000980	0.000195	0.383	0.914
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Normal	Normal	0.913	0.970	0.400	1.30	0.255	0.279	-0.701
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	16	10	62%	2022-12-01 to 2025-08-14	Gamma; Lognormal	Nonparametric	0.000735	0.000220	0.000100	0.00290	0.00110	1.49	2.13
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.100	0.104	0.0630	0.140	0.0254	0.254	0.113
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	16	15	94%	2022-12-01 to 2025-08-14		Nonparametric	0.650	0.650	0.650	0.650	NA	NA	NA
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	16	1	6%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00149	0.00160	0.000310	0.00290	0.000859	0.577	0.113

(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
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.09	0.984	0.550	2.10	0.427	0.391	1.08
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	16	6	38%	2022-12-01 to 2025-08-14	Lognormal	Lognormal	0.000179	0.000145	0.000120	0.000340	0.0000769	0.430	1.62
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	16	15	94%	2022-12-01 to 2025-08-14		Nonparametric	0.000130	0.000130	0.000130	0.000130	NA	NA	NA
18_1_5_111	MW-08	Part 115	Copper	mg/L	16	5	31%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000410	0.000350	0.000210	0.000800	0.000178	0.434	1.20
18_1_5_114	MW-08	Part 115	Iron	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Gamma; Lognormal; Normal	Normal	19.4	19.0	10.0	32.0	5.76	0.296	0.705
18_1_5_119	MW-08	Part 115	Nickel	mg/L	16	0	0%	2022-12-01 to 2025-08-14	Nonparametric	Nonparametric	0.00270	0.00130	0.000850	0.0130	0.00307	1.14	2.85
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	16	14	88%	2022-12-01 to 2025-08-14		Nonparametric	0.000600	0.000600	0.000290	0.000910	0.000438	0.731	NA
18_1_5_129	MW-08	Part 115	Zinc	mg/L	16	3	19%	2022-12-01 to 2025-08-14	Nonparametric	Nonparametric	0.0336	0.00250	0.00130	0.160	0.0542	1.61	1.56
19_2_3_105	MW-09	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	5.69	5.75	4.90	6.90	0.556	0.0976	0.323
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	387	405	230	510	86.1	0.222	-0.237
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Lognormal	Lognormal	23.9	17.5	11.0	67.0	16.9	0.706	1.75
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	2.56	2.55	2.10	2.90	0.250	0.0979	-0.128
19_2_3_120	MW-09	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.21	7.21	7.00	7.52	0.118	0.0164	1.09
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Normal	Normal	502	540	83.0	930	261	0.520	-0.204
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	1469	1550	740	2000	357	0.243	-0.472
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	16	11	69%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000177	0.000120	0.0000730	0.000370	0.000124	0.700	1.19
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Normal	Normal	0.00214	0.00230	0.00130	0.00300	0.000525	0.246	-0.447
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Lognormal	Lognormal	0.376	0.200	0.0970	2.40	0.554	1.47	3.68
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-28 to 2025-08-13		Nonparametric	0.0000883	0.0000580	0.0000570	0.000150	0.0000534	0.605	1.73
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00237	0.00230	0.00160	0.00320	0.000507	0.213	0.171
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000498	0.000495	0.000230	0.000990	0.000222	0.447	0.585
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	2.56	2.55	2.10	2.90	0.250	0.0979	-0.128
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.303	0.305	0.260	0.340	0.0265	0.0875	-0.189
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-28 to 2025-08-13		Nonparametric	1500	2100	0.320	2400	1307	0.872	-1.63
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.0220	0.0210	0.00970	0.0330	0.00633	0.287	-0.262
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.789	0.789	0.789	0.789	NA	NA	NA
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	16	2	12%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.000301	0.000270	0.000120	0.000640	0.000119	0.394	1.81
19_2_5_111	MW-09	Part 115	Copper	mg/L	16	11	69%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Nonparametric	0.000530	0.000340	0.000290	0.00130	0.000434	0.819	2.14
19_2_5_114	MW-09	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	20.4	19.5	13.0	26.0	4.27	0.210	-0.114
19_2_5_119	MW-09	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Lognormal	Nonparametric	0.00926	0.00200	0.000720	0.100	0.0243	2.63	3.92
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	16	15	94%	2022-11-28 to 2025-08-13		Nonparametric	0.000470	0.000470	0.000470	0.000470	NA	NA	NA
19_2_5_129	MW-09	Part 115	Zinc	mg/L	16	8	50%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.0104	0.00810	0.00150	0.0250	0.00849	0.819	0.677
20_3_3_105	MW-10	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	17.5	19.0	4.50	28.0	8.00	0.456	-0.241
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	296	275	160	590	114	0.385	1.36
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	301	275	92.0	700	183	0.607	1.11
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	5.30	5.70	2.70	7.70	1.58	0.298	-0.315
20_3_3_120	MW-10	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	Lognormal; Normal	Normal	7.77	7.78	7.05	8.81	0.379	0.0488	1.03
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	608	470	140	1700	397	0.653	1.43
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	2050	1850	1500	3200	487	0.238	1.23
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.000172	0.000120	0.000110	0.000340	0.000112	0.650	1.96
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.000767	0.000640	0.000200	0.00200	0.000504	0.657	1.20
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.296	0.280	0.140	0.570	0.111	0.373	0.980
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	16	7	44%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.0000990	0.0000710	0.0000520	0.000220	0.0000558	0.564	1.50

(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
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00384	0.00405	0.00130	0.00850	0.00195	0.509	0.910
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.000509	0.000400	0.000100	0.00180	0.000405	0.795	2.59
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	5.30	5.70	2.70	7.70	1.58	0.298	-0.315
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000145	0.000145	0.000120	0.000170	0.0000354	0.244	NA
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.938	0.940	0.540	1.60	0.247	0.263	0.955
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	950	950	0.370	1900	1343	1.41	NA
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00308	0.00305	0.000650	0.00720	0.00174	0.565	0.795
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.971	0.896	0.732	1.36	0.278	0.287	1.29
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	16	1	6%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.000364	0.000340	0.000190	0.000830	0.000144	0.396	2.61
20_3_5_111	MW-10	Part 115	Copper	mg/L	16	13	81%	2022-11-29 to 2025-08-14		Nonparametric	0.000723	0.000490	0.000380	0.00130	0.000502	0.695	1.64
20_3_5_114	MW-10	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	5.06	4.85	2.40	7.70	1.71	0.337	0.156
20_3_5_119	MW-10	Part 115	Nickel	mg/L	16	7	44%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.000996	0.000880	0.000760	0.00180	0.000327	0.328	2.30
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.00110	0.00110	0.000890	0.00130	0.000186	0.170	-0.0496
20_3_5_129	MW-10	Part 115	Zinc	mg/L	16	7	44%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.00757	0.00250	0.00120	0.0190	0.00725	0.959	0.469
21_2_3_105	MW-11	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	5.88	5.00	1.50	13.0	3.34	0.568	0.823
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	262	270	130	380	68.5	0.262	-0.323
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	68.4	71.5	38.0	95.0	17.6	0.258	-0.173
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.624	0.625	0.210	1.40	0.342	0.548	0.851
21_2_3_120	MW-11	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	7.30	7.32	7.09	7.47	0.104	0.0143	-0.365
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	16	6	38%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	58.0	15.5	1.80	210	76.7	1.32	1.44
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	1055	1000	680	1800	244	0.232	1.83
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-29 to 2025-08-14		Nonparametric	0.000333	0.000280	0.0000820	0.000690	0.000256	0.768	1.17
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00167	0.00155	0.000610	0.00410	0.000789	0.473	2.0
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.647	0.580	0.360	1.20	0.203	0.314	1.31
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-29 to 2025-08-14		Nonparametric	0.000206	0.0000910	0.0000880	0.000440	0.000202	0.981	1.73
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000445	0.000445	0.000160	0.000730	0.000403	0.906	NA
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.00140	0.000890	0.000450	0.00860	0.00195	1.40	3.81
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.000598	0.000400	0.000230	0.00240	0.000540	0.904	2.83
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.624	0.625	0.210	1.40	0.342	0.548	0.851
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16	3	19%	2022-11-29 to 2025-08-14	Gamma; Lognormal	Gamma	0.00681	0.000430	0.000170	0.0680	0.0185	2.72	3.50
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.0660	0.0535	0.00590	0.220	0.0553	0.837	1.66
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-29 to 2025-08-14		Nonparametric	368	2.70	0.880	1100	634	1.72	1.73
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	0.00139	0.00115	0.000430	0.00300	0.000820	0.591	0.967
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	15	4	27%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	1.03	0.852	0.460	1.76	0.418	0.406	0.645
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16	3	19%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.000249	0.000200	0.000140	0.000710	0.000158	0.632	2.45
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-29 to 2025-08-14		Nonparametric	0.000210	0.000210	0.000210	0.000210	NA	NA	NA
21_2_5_111	MW-11	Part 115	Copper	mg/L	16	4	25%	2022-11-29 to 2025-08-14	Lognormal	Nonparametric	0.00218	0.000450	0.000200	0.0190	0.00533	2.44	3.39
21_2_5_114	MW-11	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Normal	7.22	7.35	3.60	11.0	2.36	0.327	-0.103
21_2_5_119	MW-11	Part 115	Nickel	mg/L	16	0	0%	2022-11-29 to 2025-08-14	Nonparametric	Nonparametric	0.00190	0.00140	0.000650	0.00940	0.00206	1.09	3.61
21_2_5_123	MW-11	Part 115	Silver	mg/L	16	14	88%	2022-11-29 to 2025-08-14		Nonparametric	0.000155	0.000155	0.000140	0.000170	0.0000212	0.137	NA
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	16	13	81%	2022-11-29 to 2025-08-14		Nonparametric	0.00143	0.000680	0.000620	0.00300	0.00136	0.947	1.73
21_2_5_129	MW-11	Part 115	Zinc	mg/L	16	4	25%	2022-11-29 to 2025-08-14	Gamma; Lognormal; Normal	Gamma	0.0254	0.0203	0.00180	0.100	0.0286	1.13	1.71
22_2_3_105	MW-12	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.311	0.300	0.190	0.440	0.0866	0.279	0.0901

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ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	65.8	66.5	40.0	95.0	18.0	0.274	-0.0121
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Lognormal	Lognormal	19.0	17.5	12.0	27.0	4.69	0.247	0.700
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.324	0.285	0.200	0.540	0.105	0.325	0.836
22_2_3_120	MW-12	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.66	7.66	7.00	8.32	0.327	0.0427	0.184
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	104	105	52.0	180	40.5	0.388	0.495
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	279	285	100	420	86.3	0.310	-0.305
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000684	0.000660	0.000240	0.00150	0.000325	0.475	0.996
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00246	0.00215	0.00140	0.00520	0.00100	0.408	1.34
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.0452	0.0350	0.0170	0.110	0.0280	0.620	1.31
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.00206	0.00130	0.000540	0.0110	0.00251	1.22	3.36
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	16	6	38%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000604	0.000510	0.000250	0.000990	0.000272	0.450	0.452
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	16	5	31%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000459	0.000380	0.000110	0.00130	0.000372	0.810	1.35
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.324	0.285	0.200	0.540	0.105	0.325	0.836
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	16	6	38%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000287	0.000235	0.000140	0.000510	0.000139	0.485	0.509
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00371	0.00370	0.00190	0.00640	0.00149	0.402	0.315
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	16	12	75%	2022-11-28 to 2025-08-13		Nonparametric	98	80.5	0.830	230	116	1.18	0.307
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.00777	0.00705	0.00460	0.0180	0.00311	0.400	2.52
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.691	0.619	0.487	1.09	0.225	0.326	1.34
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Gamma	0.00119	0.000910	0.000130	0.00430	0.00110	0.932	1.57
22_2_5_111	MW-12	Part 115	Copper	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00141	0.00125	0.000550	0.00340	0.000690	0.488	1.65
22_2_5_114	MW-12	Part 115	Iron	mg/L	16	6	38%	2022-11-28 to 2025-08-13	Lognormal	Lognormal	0.0898	0.0490	0.0210	0.400	0.115	1.28	2.65
22_2_5_119	MW-12	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00274	0.00255	0.00140	0.00620	0.00116	0.423	1.75
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	16	6	38%	2022-11-28 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00116	0.000980	0.000740	0.00210	0.000417	0.360	1.50
22_2_5_129	MW-12	Part 115	Zinc	mg/L	16	0	0%	2022-11-28 to 2025-08-13	Gamma; Lognormal	Gamma	0.00906	0.00800	0.00270	0.0230	0.00492	0.543	1.74
28_1_3_105	MW-18	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	3.02	2.85	1.80	4.40	0.904	0.299	0.116
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	334	335	240	450	63.5	0.190	0.0326
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	23.2	24.0	16.0	32.0	4.52	0.195	-0.0111
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	3.90	3.80	2.70	5.10	0.688	0.176	0.180
28_1_3_120	MW-18	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	7.19	7.18	7.02	7.31	0.0824	0.0115	-0.358
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	809	765	480	1200	210	0.260	0.735
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	1381	1400	1100	1800	207	0.150	0.542
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-30 to 2025-08-12	Lognormal	Lognormal	0.000167	0.000130	0.000100	0.000320	0.0000725	0.434	1.37
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0279	0.0285	0.0150	0.0440	0.00779	0.279	0.518
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0191	0.0195	0.0120	0.0280	0.00497	0.261	0.0876
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	16	14	88%	2022-11-30 to 2025-08-12		Nonparametric	0.0000560	0.0000560	0.0000530	0.0000590	0.00000424	0.0758	NA
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	16	7	44%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.000213	0.000180	0.0000890	0.000440	0.000116	0.544	0.868
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	16	14	88%	2022-11-30 to 2025-08-12		Nonparametric	0.000440	0.000440	0.000250	0.000630	0.000269	0.611	NA
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Lognormal	Lognormal	0.00269	0.00215	0.00110	0.00600	0.00147	0.545	1.33
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	3.90	3.80	2.70	5.10	0.688	0.176	0.180
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	16	10	62%	2022-11-30 to 2025-08-12	Lognormal	Nonparametric	0.000193	0.000155	0.000140	0.000320	0.0000747	0.387	1.29
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Lognormal; Normal	Normal	0.0349	0.0355	0.0200	0.0450	0.00798	0.229	-0.264
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-12		Nonparametric	0.860	0.860	0.860	0.860	NA	NA	NA
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0152	0.0140	0.00900	0.0210	0.00390	0.257	0.239

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ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	2022-11-30 to 2025-08-12	Gamma; Lognormal	Nonparametric	0.701	0.618	0.462	1.27	0.266	0.380	2.03
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.000582	0.000375	0.000140	0.00200	0.000522	0.896	1.49
28_1_5_111	MW-18	Part 115	Copper	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Nonparametric	Nonparametric	0.000662	0.000475	0.000330	0.00170	0.000399	0.603	1.91
28_1_5_114	MW-18	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	6.57	6.50	4.30	10.0	1.50	0.229	0.697
28_1_5_119	MW-18	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal	Gamma	0.00626	0.00545	0.00320	0.0110	0.00238	0.380	1.07
28_1_5_129	MW-18	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0469	0.0440	0.0160	0.0880	0.0199	0.424	0.336
29_1_3_105	MW-19	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	2.06	2.00	1.50	2.70	0.416	0.202	0.120
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	464	470	360	550	52.9	0.114	-0.546
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	42.4	39.5	21.0	75.0	15.1	0.355	0.807
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	1.85	1.90	1.40	2.30	0.271	0.146	-0.0115
29_1_3_120	MW-19	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	6.83	6.85	6.39	7.07	0.156	0.0229	-1.33
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	992	980	600	1300	187	0.189	-0.0672
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	1856	1800	1600	2200	231	0.124	0.392
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-30 to 2025-08-12		Nonparametric	0.000370	0.000325	0.000110	0.000720	0.000277	0.749	0.632
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.00496	0.00495	0.00240	0.00730	0.00167	0.337	-0.0997
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0390	0.0380	0.0300	0.0500	0.00540	0.139	0.553
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	16	3	19%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0000802	0.0000770	0.0000570	0.000120	0.0000198	0.247	0.733
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	16	5	31%	2022-11-30 to 2025-08-12	Gamma; Lognormal	Gamma	0.000295	0.000270	0.000200	0.000530	0.0000896	0.303	2.02
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	16	1	6%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.000551	0.000460	0.000130	0.00120	0.000316	0.573	0.533
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	1.85	1.90	1.40	2.30	0.271	0.146	-0.0115
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0899	0.0895	0.0730	0.110	0.0114	0.126	0.210
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-12		Nonparametric	0.260	0.260	0.260	0.260	NA	NA	NA
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0110	0.0105	0.00390	0.0190	0.00404	0.367	0.504
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	16	7	44%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.822	0.904	0.514	1.17	0.253	0.308	0.0106
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	16	11	69%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000144	0.000130	0.000120	0.000200	0.0000336	0.233	1.60
29_1_5_111	MW-19	Part 115	Copper	mg/L	16	13	81%	2022-11-30 to 2025-08-12		Nonparametric	0.000323	0.000350	0.000220	0.000400	0.0000929	0.287	-1.19
29_1_5_114	MW-19	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Normal	16.6	16.0	12.0	24.0	3.40	0.205	0.716
29_1_5_119	MW-19	Part 115	Nickel	mg/L	16	1	6%	2022-11-30 to 2025-08-12	Lognormal	Lognormal	0.00320	0.00240	0.00110	0.0170	0.00391	1.22	3.58
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	16	14	88%	2022-11-30 to 2025-08-12		Nonparametric	0.000610	0.000610	0.000550	0.000670	0.0000849	0.139	NA
29_1_5_129	MW-19	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-12	Gamma; Lognormal; Normal	Nonparametric	0.00315	0.00325	0.00170	0.00460	0.00132	0.419	-0.0330
30_1_3_105	MW-20	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.976	0.895	0.720	1.40	0.200	0.205	0.712
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Normal	Normal	124	125	58.0	170	23.7	0.191	-1.02
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Normal	Normal	60.4	64.0	29.0	92.0	19.5	0.324	-0.290
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	0.259	0.245	0.120	0.550	0.0886	0.342	2.36
30_1_3_120	MW-20	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	7.35	7.34	7.14	7.50	0.105	0.0142	-0.510
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	57.2	51.0	18.0	120	31.5	0.550	0.596
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	652	650	510	840	86.6	0.133	0.448
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	16	6	38%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000103	0.000105	0.0000540	0.000160	0.0000346	0.336	0.0500
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00144	0.00140	0.00100	0.00190	0.000301	0.209	0.225
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Lognormal	Lognormal	0.521	0.465	0.310	0.940	0.165	0.317	1.49
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-30 to 2025-08-13		Nonparametric	0.0000590	0.0000590	0.0000590	0.0000590	NA	NA	NA
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	16	8	50%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Nonparametric	0.000231	0.000220	0.000190	0.000290	0.0000327	0.141	0.767
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00115	0.00110	0.000690	0.00160	0.000274	0.238	0.118

(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
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	0.259	0.245	0.120	0.550	0.0886	0.342	2.36
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00192	0.00180	0.00120	0.00280	0.000492	0.256	0.448
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.0583	0.0610	0.0290	0.0830	0.0156	0.268	-0.454
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-30 to 2025-08-13		Nonparametric	5.20	5.20	5.10	5.30	0.141	0.0272	NA
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00438	0.00430	0.00330	0.00580	0.000696	0.159	0.301
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	15	7	47%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.771	0.610	0.479	1.47	0.343	0.444	1.49
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	16	10	62%	2022-11-30 to 2025-08-13	Nonparametric	Nonparametric	0.000140	0.000120	0.000100	0.000260	0.0000600	0.429	2.23
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-30 to 2025-08-13		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
30_1_5_111	MW-20	Part 115	Copper	mg/L	16	2	12%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.000358	0.000315	0.000200	0.000820	0.000170	0.474	1.77
30_1_5_114	MW-20	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	18.4	18.5	14.0	22.0	2.50	0.136	-0.368
30_1_5_119	MW-20	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Gamma; Lognormal; Normal	Normal	0.00801	0.00820	0.00450	0.00990	0.00158	0.198	-0.711
30_1_5_129	MW-20	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-13	Lognormal	Lognormal	0.0326	0.0265	0.0130	0.0710	0.0181	0.554	1.10
40_1_3_105	MW-30	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Lognormal	Lognormal	1.96	1.90	1.40	3.50	0.456	0.232	2.72
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	522	465	390	960	152	0.290	1.96
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	340	165	82.0	1200	402	1.18	1.63
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	1.09	1.10	0.570	1.40	0.178	0.163	-1.55
40_1_3_120	MW-30	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	7.04	7.07	6.48	7.25	0.188	0.0267	-1.94
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Normal	Normal	862	900	440	1000	153	0.177	-1.72
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	2575	2250	1800	4300	787	0.306	1.53
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	16	14	88%	2022-11-30 to 2025-08-11		Nonparametric	0.000525	0.000525	0.000400	0.000650	0.000177	0.337	NA
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	16	2	12%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	0.000821	0.000520	0.000120	0.00300	0.000815	0.993	1.98
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.0675	0.0640	0.0410	0.100	0.0202	0.300	0.516
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-30 to 2025-08-11		Nonparametric	0.0000750	0.0000620	0.0000530	0.000110	0.0000306	0.409	1.57
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.00880	0.00840	0.00310	0.0140	0.00323	0.367	-0.0384
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.00413	0.00110	0.000470	0.0460	0.0112	2.72	3.94
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	1.09	1.10	0.570	1.40	0.178	0.163	-1.55
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	0.00170	0.00170	0.00170	0.00170	NA	NA	NA
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	0.141	0.125	0.100	0.270	0.0429	0.304	2.04
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	390	390	390	390	NA	NA	NA
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	16	3	19%	2022-11-30 to 2025-08-11	Lognormal	Nonparametric	0.00273	0.00110	0.000320	0.0190	0.00501	1.83	3.33
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	16	8	50%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.661	0.595	0.445	0.911	0.178	0.269	0.448
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	16	7	44%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	0.000170	0.000130	0.000100	0.000390	0.0000925	0.544	2.06
40_1_5_111	MW-30	Part 115	Copper	mg/L	16	11	69%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.000326	0.000280	0.000200	0.000540	0.000135	0.415	1.21
40_1_5_114	MW-30	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	4.18	2.90	0.870	17.0	3.97	0.951	2.54
40_1_5_119	MW-30	Part 115	Nickel	mg/L	16	3	19%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.0105	0.00180	0.000700	0.110	0.0299	2.84	3.59
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	0.000470	0.000470	0.000470	0.000470	NA	NA	NA
40_1_5_129	MW-30	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-11	Lognormal	Nonparametric	0.0196	0.00410	0.00110	0.100	0.0394	2.02	2.44
41_1_3_105	MW-31	Appendix III	Boron	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	4.72	4.50	3.60	6.40	0.744	0.158	0.696
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	170	170	130	200	20.3	0.120	0
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Nonparametric	Nonparametric	107	100	87.0	170	18.9	0.177	2.71
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	4.66	4.65	4.00	5.20	0.324	0.0697	-0.260
41_1_3_120	MW-31	Appendix III	pH (field)	su	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	7.83	7.81	7.67	8.02	0.106	0.0136	0.659
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	152	155	45.0	250	72	0.472	0.0620

(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
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	818	810	730	960	72.8	0.0890	0.646
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	16	7	44%	2022-12-01 to 2025-08-12	Gamma; Lognormal	Gamma	0.000342	0.000130	0.0000690	0.00110	0.000351	1.03	1.51
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.00127	0.00120	0.000730	0.00190	0.000317	0.249	0.526
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.173	0.160	0.0990	0.290	0.0523	0.302	0.779
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	16	14	88%	2022-12-01 to 2025-08-12		Nonparametric	0.0000750	0.0000750	0.0000540	0.0000960	0.0000297	0.396	NA
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	16	15	94%	2022-12-01 to 2025-08-12		Nonparametric	0.0000840	0.0000840	0.0000840	0.0000840	NA	NA	NA
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.00237	0.00225	0.00170	0.00410	0.000627	0.265	1.53
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	2022-12-01 to 2025-08-12	Gamma; Lognormal	Gamma	0.000188	0.000180	0.000100	0.000360	0.0000673	0.359	1.58
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	4.66	4.65	4.00	5.20	0.324	0.0697	-0.260
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	16	13	81%	2022-12-01 to 2025-08-12		Nonparametric	0.000270	0.000250	0.000250	0.000310	0.0000346	0.128	1.73
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Normal	0.0488	0.0515	0.0300	0.0630	0.00795	0.163	-0.770
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	16	14	88%	2022-12-01 to 2025-08-12		Nonparametric	1.21	1.21	0.710	1.70	0.700	0.581	NA
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Nonparametric	Nonparametric	0.00168	0.00115	0.000400	0.00910	0.00202	1.20	3.72
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	16	6	38%	2022-12-01 to 2025-08-12	Gamma; Lognormal	Gamma	0.733	0.632	0.502	1.23	0.251	0.342	1.43
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	16	6	38%	2022-12-01 to 2025-08-12	Nonparametric	Nonparametric	0.000201	0.000135	0.000100	0.000740	0.000193	0.962	2.94
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	16	15	94%	2022-12-01 to 2025-08-12		Nonparametric	0.0000880	0.0000880	0.0000880	0.0000880	NA	NA	NA
41_1_5_111	MW-31	Part 115	Copper	mg/L	16	10	62%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Nonparametric	0.000312	0.000300	0.000230	0.000440	0.0000717	0.230	1.22
41_1_5_114	MW-31	Part 115	Iron	mg/L	16	0	0%	2022-12-01 to 2025-08-12	Nonparametric	Nonparametric	0.726	0.500	0.120	2.50	0.687	0.945	1.21
41_1_5_119	MW-31	Part 115	Nickel	mg/L	16	10	62%	2022-12-01 to 2025-08-12	Lognormal	Nonparametric	0.0452	0.00250	0.00140	0.240	0.0958	2.12	2.41
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	16	12	75%	2022-12-01 to 2025-08-12		Nonparametric	0.000670	0.000700	0.000450	0.000830	0.000166	0.248	-0.847
41_1_5_129	MW-31	Part 115	Zinc	mg/L	16	9	56%	2022-12-01 to 2025-08-12	Gamma; Lognormal; Normal	Nonparametric	0.00663	0.00820	0.00140	0.0130	0.00480	0.724	-0.0376
42_1_3_105	MW-32	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	3.60	3.10	2.60	5.60	0.916	0.254	1.12
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	171	170	130	220	24.7	0.144	0.169
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	45.9	46.5	38.0	53.0	4.51	0.0984	-0.279
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Lognormal; Normal	Normal	1.52	1.50	1.20	1.90	0.164	0.108	0.691
42_1_3_120	MW-32	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	7.61	7.61	7.50	7.75	0.0717	0.00943	0.156
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Gamma	76.1	68.5	5.90	190	61.4	0.807	0.417
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	682	685	550	800	86.7	0.127	-0.0612
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-30 to 2025-08-11		Nonparametric	0.000245	0.000106	0.0000670	0.000700	0.000305	1.25	1.93
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.000639	0.000535	0.000390	0.00240	0.000476	0.744	3.82
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.621	0.585	0.0590	1.30	0.324	0.522	0.491
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	0.0000700	0.0000700	0.0000700	0.0000700	NA	NA	NA
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	16	15	94%	2022-11-30 to 2025-08-11		Nonparametric	0.000190	0.000190	0.000190	0.000190	NA	NA	NA
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.000576	0.000380	0.000310	0.00300	0.000655	1.14	3.84
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal	Gamma	0.000502	0.000385	0.000210	0.00190	0.000395	0.786	3.31
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Lognormal; Normal	Normal	1.52	1.50	1.20	1.90	0.164	0.108	0.691
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	16	11	69%	2022-11-30 to 2025-08-11	Lognormal; Normal	Nonparametric	0.000290	0.000380	0.000120	0.000420	0.000147	0.507	-0.573
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.130	0.125	0.0940	0.200	0.0327	0.252	0.913
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-30 to 2025-08-11		Nonparametric	951	951	1.20	1900	1343	1.41	NA
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	0.00405	0.00405	0.00250	0.00730	0.00119	0.295	1.13
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Nonparametric	0.759	0.837	0.550	0.985	0.167	0.220	-0.0814
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	16	13	81%	2022-11-30 to 2025-08-11		Nonparametric	0.000423	0.000140	0.000130	0.00100	0.000499	1.18	1.73
42_1_5_111	MW-32	Part 115	Copper	mg/L	16	9	56%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.00254	0.000310	0.000200	0.0160	0.00593	2.33	2.64

(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
42_1_5_114	MW-32	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Gamma; Lognormal; Normal	Normal	15.6	15.5	11.0	20.0	2.80	0.180	-0.273
42_1_5_119	MW-32	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.00245	0.000980	0.000680	0.0230	0.00549	2.24	3.98
42_1_5_129	MW-32	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-11	Nonparametric	Nonparametric	0.0141	0.00360	0.00220	0.0680	0.0213	1.51	1.85

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	16	0	0%	0.955	0.580	0.123	0.745	0.905	0.095	0.171	0.239	0.146	>= 0.10	0.423	>= 0.10	0.393	Gamma; Lognormal; Normal	Normal
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	16	0	0%	0.945	0.409	0.125	0.724	0.971	0.861	0.115	0.830	0.123	>= 0.10	0.252	>= 0.10	0.321	Gamma; Lognormal; Normal	Normal
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.944	0.406	0.156	0.374	0.860	0.019	0.237	0.016	0.210	0.05 <= p < 0.10	0.760	0.01 <= p < 0.05	0.437	Gamma; Normal	Normal
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	16	0	0%	0.891	0.059	0.284	0.001	0.852	0.015	0.288	0.001	0.295	< 0.01	0.902	0.01 <= p < 0.05	0.352	Normal	Normal
11_2_3_120	MW-01R	Appendix III	pH (field)	su	16	0	0%	0.418	0.000	0.372	0.000	0.401	0.000	0.376	0.000	0.381	< 0.01	3.983	< 0.01	0.063	Nonparametric	Nonparametric
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.942	0.378	0.131	0.658	0.831	0.007	0.190	0.127	0.148	>= 0.10	0.412	>= 0.10	1.191	Gamma; Lognormal; Normal	Gamma
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.928	0.225	0.223	0.033	0.926	0.207	0.229	0.025	0.233	0.01 <= p < 0.05	0.721	0.05 <= p < 0.10	0.052	Gamma; Lognormal; Normal	Normal
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	16	3	19%	0.611	0.000	0.350	0.000	0.781	0.004	0.271	0.010	0.301	< 0.01	1.520	< 0.01	0.580	Nonparametric	Nonparametric
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	0.675	0.000	0.280	0.002	0.854	0.015	0.271	0.003	0.251	< 0.01	1.221	< 0.01	0.385	Nonparametric	Nonparametric
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	16	0	0%	0.908	0.110	0.167	0.271	0.944	0.407	0.124	0.732	0.145	>= 0.10	0.365	>= 0.10	0.333	Gamma; Lognormal; Normal	Normal
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	16	2	12%	0.903	0.126	0.197	0.150	0.924	0.255	0.138	0.663	0.151	>= 0.10	0.424	>= 0.10	0.387	Gamma; Lognormal; Normal	Normal
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	16	13	81%	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	16	0	0%	0.420	0.000	0.370	0.000	0.754	0.001	0.223	0.032	0.287	< 0.01	2.144	< 0.01	0.695	Nonparametric	Nonparametric
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	0.687	0.000	0.321	0.000	0.855	0.016	0.272	0.003	0.300	< 0.01	1.435	< 0.01	0.537	Nonparametric	Nonparametric
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.891	0.059	0.284	0.001	0.852	0.015	0.288	0.001	0.295	< 0.01	0.902	0.01 <= p < 0.05	0.352	Normal	Normal
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	16	2	12%	0.556	0.000	0.325	0.000	0.886	0.071	0.193	0.171	0.249	0.01 <= p < 0.05	1.103	< 0.01	0.692	Lognormal	Lognormal
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	16	0	0%	0.949	0.468	0.124	0.730	0.882	0.042	0.159	0.341	0.156	>= 0.10	0.477	>= 0.10	0.399	Gamma; Lognormal; Normal	Normal
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	0.582	0.000	0.316	0.001	0.893	0.088	0.223	0.057	0.276	< 0.01	1.054	< 0.01	0.757	Lognormal	Lognormal
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	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	16	0	0%	0.723	0.000	0.277	0.002	0.911	0.119	0.190	0.129	0.213	0.05 <= p < 0.10	0.817	0.01 <= p < 0.05	0.378	Gamma; Lognormal	Gamma
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_5_111	MW-01R	Part 115	Copper	mg/L	16	6	38%	0.661	0.000	0.347	0.001	0.739	0.003	0.298	0.012	0.311	0.01 <= p < 0.05	1.400	< 0.01	0.562	Nonparametric	Nonparametric
11_2_5_114	MW-01R	Part 115	Iron	mg/L	16	0	0%	0.898	0.074	0.192	0.117	0.887	0.049	0.226	0.029	0.188	>= 0.10	0.688	0.05 <= p < 0.10	1.014	Gamma; Normal	Gamma
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	16	0	0%	0.409	0.000	0.430	0.000	0.713	0.000	0.293	0.001	0.371	< 0.01	2.577	< 0.01	0.690	Nonparametric	Nonparametric
11_2_5_123	MW-01R	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	16	2	12%	0.895	0.097	0.250	0.017	0.934	0.349	0.147	0.565	0.180	>= 0.10	0.422	>= 0.10	0.589	Gamma; Lognormal; Normal	Normal
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	16	3	19%	0.781	0.004	0.299	0.002	0.795	0.006	0.280	0.006	0.306	< 0.01	1.142	< 0.01	1.391	Nonparametric	Nonparametric
12_2_3_105	MW-02	Appendix III	Boron	mg/L	16	0	0%	0.801	0.003	0.302	0.000	0.880	0.039	0.258	0.006	0.272	< 0.01	1.017	< 0.01	0.218	Nonparametric	Nonparametric
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	16	0	0%	0.946	0.424	0.159	0.341	0.953	0.534	0.170	0.249	0.172	>= 0.10	0.430	>= 0.10	0.090	Gamma; Lognormal; Normal	Normal
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.617	0.000	0.367	0.000	0.518	0.000	0.400	0.000	0.391	< 0.01	2.672	< 0.01	0.201	Nonparametric	Nonparametric
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	16	0	0%	0.851	0.014	0.270	0.003	0.790	0.002	0.274	0.002	0.252	< 0.01	1.270	< 0.01	0.259	Nonparametric	Nonparametric
12_2_3_120	MW-02	Appendix III	pH (field)	su	16	0	0%	0.921	0.177	0.193	0.116	0.924	0.194	0.192	0.119	0.197	0.05 <= p < 0.10	0.537	>= 0.10	0.015	Gamma; Lognormal; Normal	Normal
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	16	10	62%	0.898	0.364	0.215	0.516	0.933	0.605	0.163	0.887	0.189	>= 0.10	0.315	>= 0.10	0.372	Gamma; Lognormal; Normal	Nonparametric
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.870	0.027	0.179	0.189	0.913	0.132	0.153	0.409	0.156	>= 0.10	0.520	>= 0.10	0.117	Gamma; Lognormal; Normal	Normal
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16	3	19%	0.674	0.000	0.265	0.013	0.859	0.038	0.169	0.391	0.187	>= 0.10	0.827	0.01 <= p < 0.05	0.403	Gamma; Lognormal	Gamma
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	16	0	0%	0.888	0.051	0.175	0.212	0.528	0.000	0.348	0.000	0.286	< 0.01	2.043	< 0.01	0.745	Normal	Normal
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	16	0	0%	0.918	0.155	0.139	0.566	0.950	0.482	0.164	0.294	0.150	>= 0.10	0.376	>= 0.10	0.209	Gamma; Lognormal; Normal	Normal
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	16	1	6%	0.946	0.458	0.153	0.447	0.973	0.903	0.122	0.794	0.125	>= 0.10	0.229	>= 0.10	0.429	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	16	11	69%	0.631	0.002	0.439	0.002	0.793	0.070	0.353	0.041	0.411	0.01 <= p < 0.05	0.798	0.01 <= p < 0.05	0.998	Lognormal	Nonparametric
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.960	0.666	0.118	0.797	0.561	0.000	0.303	0.000	0.247	0.01 <= p < 0.05	1.393	< 0.01	1.234	Normal	Normal
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	16	0	0%	0.953	0.538	0.159	0.343	0.618	0.000	0.292	0.001	0.266	< 0.01	1.276	< 0.01	0.873	Normal	Normal
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.851	0.014	0.270	0.003	0.790	0.002	0.274	0.002	0.252	< 0.01	1.270	< 0.01	0.259	Nonparametric	Nonparametric
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	16	1	6%	0.909	0.131	0.176	0.239	0.966	0.796	0.105	0.929	0.129	>= 0.10	0.290	>= 0.10	0.541	Gamma; Lognormal; Normal	Normal
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	16	0	0%	0.920	0.170	0.211	0.056	0.951	0.513	0.169	0.259	0.180	>= 0.10	0.446	>= 0.10	0.223	Gamma; Lognormal; Normal	Normal
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.604		Nonparametric
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	16	0	0%	0.809	0.004	0.293	0.001	0.884	0.045	0.231	0.022	0.258	< 0.01	1.083	< 0.01	0.424	Nonparametric	Nonparametric
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	15	5	33%	0.872	0.105	0.251	0.074	0.971	0.898	0.163	0.631	0.187	>= 0.10	0.300	>= 0.10	0.466	Gamma; Lognormal; Normal	Normal
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	16	0	0%	0.948	0.459	0.191	0.121	0.915	0.141	0.201	0.082	0.178	>= 0.10	0.499	>= 0.10	0.389	Gamma; Lognormal; Normal	Normal
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_5_111	MW-02	Part 115	Copper	mg/L	16	0	0%	0.968	0.801	0.128	0.686	0.891	0.057	0.163	0.304	0.129	>= 0.10	0.262	>= 0.10	0.701	Gamma; Lognormal; Normal	Normal
12_2_5_114	MW-02	Part 115	Iron	mg/L	16	0	0%	0.965	0.755	0.131	0.649	0.975	0.914	0.114	0.839	0.126	>= 0.10	0.208	>= 0.10	0.159	Gamma; Lognormal; Normal	Normal
12_2_5_119	MW-02	Part 115	Nickel	mg/L	16	0	0%	0.922	0.181	0.232	0.021	0.690	0.000	0.293	0.001	0.223	0.01 <= p < 0.05	0.905	0.01 <= p < 0.05	0.901	Normal	Normal
12_2_5_123	MW-02	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	16	1	6%	0.956	0.625	0.144	0.547	0.914	0.155	0.127	0.741	0.110	>= 0.10	0.316	>= 0.10	0.512	Gamma; Lognormal; Normal	Normal
12_2_5_129	MW-02	Part 115	Zinc	mg/L	16	0	0%	0.659	0.000	0.411	0.000	0.791	0.002	0.304	0.000	0.365	< 0.01	2.052	< 0.01	1.040	Nonparametric	Nonparametric
13_2_3_105	MW-03	Appendix III	Boron	mg/L	16	0	0%	0.909	0.112	0.164	0.296	0.885	0.047	0.180	0.180	0.173	>= 0.10	0.559	>= 0.10	0.082	Gamma; Lognormal; Normal	Normal
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	16	0	0%	0.980	0.966	0.159	0.344	0.977	0.934	0.140	0.551	0.147	>= 0.10	0.221	>= 0.10	0.102	Gamma; Lognormal; Normal	Normal
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.894	0.065	0.150	0.441	0.963	0.714	0.126	0.715	0.135	>= 0.10	0.303	>= 0.10	0.322	Gamma; Lognormal; Normal	Normal
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	16	0	0%	0.504	0.000	0.362	0.000	0.633	0.000	0.324	0.000	0.342	< 0.01	2.488	< 0.01	0.262	Nonparametric	Nonparametric
13_2_3_120	MW-03	Appendix III	pH (field)	su	16	0	0%	0.962	0.697	0.144	0.498	0.964	0.735	0.143	0.516	0.148	>= 0.10	0.299	>= 0.10	0.013	Gamma; Lognormal; Normal	Normal
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.972	0.870	0.081	0.996	0.865	0.023	0.188	0.138	0.149	>= 0.10	0.406	>= 0.10	0.904	Gamma; Lognormal; Normal	Normal
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.813	0.004	0.232	0.022	0.815	0.004	0.240	0.015	0.244	0.01 <= p < 0.05	1.227	< 0.01	0.126	Nonparametric	Nonparametric
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	16	10	62%	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	16	0	0%	0.967	0.782	0.160	0.338	0.927	0.222	0.173	0.227	0.177	>= 0.10	0.356	>= 0.10	0.307	Gamma; Lognormal; Normal	Normal
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	16	0	0%	0.930	0.241	0.145	0.488	0.791	0.002	0.201	0.082	0.179	>= 0.10	0.808	0.01 <= p < 0.05	0.308	Gamma; Lognormal; Normal	Normal
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	16	10	62%	0.778	0.037	0.311	0.071	0.806	0.067	0.254	0.260	0.284	>= 0.10	0.693	0.05 <= p < 0.10	0.546	Gamma; Lognormal; Normal	Nonparametric
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.942	0.370	0.145	0.496	0.964	0.738	0.139	0.562	0.149	>= 0.10	0.289	>= 0.10	0.256	Gamma; Lognormal; Normal	Normal
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	16	0	0%	0.904	0.094	0.196	0.101	0.942	0.378	0.150	0.434	0.173	>= 0.10	0.418	>= 0.10	0.409	Gamma; Lognormal; Normal	Normal
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.504	0.000	0.362	0.000	0.633	0.000	0.324	0.000	0.342	< 0.01	2.488	< 0.01	0.262	Nonparametric	Nonparametric
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	16	0	0%	0.831	0.007	0.202	0.080	0.905	0.095	0.186	0.148	0.197	>= 0.10	0.625	0.05 <= p < 0.10	0.214	Gamma; Lognormal; Normal	Normal
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		3.528		Nonparametric
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	16	12	75%	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	15	1	7%	0.903	0.124	0.190	0.186	0.970	0.872	0.123	0.814	0.147	>= 0.10	0.303	>= 0.10	0.370	Gamma; Lognormal; Normal	Normal
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	16	3	19%	0.938	0.433	0.189	0.228	0.830	0.016	0.213	0.110	0.183	>= 0.10	0.640	0.05 <= p < 0.10	0.309	Gamma; Lognormal; Normal	Normal
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	16	15	94%	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				
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value							
																			S-W	Lilliefors	S-W	Lilliefors
13_2_5_111	MW-03	Part 115	Copper	mg/L	16	7	44%	0.718	0.002	0.373	0.001	0.756	0.006	0.331	0.005	0.360	< 0.01	1.224	< 0.01	0.645	Nonparametric	Nonparametric
13_2_5_114	MW-03	Part 115	Iron	mg/L	16	0	0%	0.770	0.001	0.211	0.054	0.978	0.948	0.095	0.963	0.130	>= 0.10	0.281	>= 0.10	1.190	Gamma; Lognormal; Normal	Gamma
13_2_5_119	MW-03	Part 115	Nickel	mg/L	16	1	6%	0.379	0.000	0.443	0.000	0.674	0.000	0.283	0.002	0.363	< 0.01	2.672	< 0.01	0.684	Nonparametric	Nonparametric
13_2_5_123	MW-03	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	16	9	56%	0.886	0.254	0.262	0.154	0.917	0.448	0.227	0.335	0.242	>= 0.10	0.360	>= 0.10	0.218	Gamma; Lognormal; Normal	Nonparametric
13_2_5_129	MW-03	Part 115	Zinc	mg/L	16	9	56%	0.782	0.027	0.272	0.121	0.771	0.021	0.292	0.072	0.281	>= 0.10	0.869	0.01 <= p < 0.05	1.238	Gamma; Lognormal; Normal	Nonparametric
14_2_3_105	MW-04	Appendix III	Boron	mg/L	16	0	0%	0.950	0.496	0.137	0.588	0.963	0.710	0.121	0.771	0.124	>= 0.10	0.275	>= 0.10	0.083	Gamma; Lognormal; Normal	Normal
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	16	0	0%	0.949	0.481	0.147	0.473	0.906	0.101	0.174	0.222	0.153	>= 0.10	0.404	>= 0.10	0.126	Gamma; Lognormal; Normal	Normal
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.977	0.940	0.107	0.894	0.823	0.006	0.185	0.154	0.140	>= 0.10	0.481	>= 0.10	0.610	Gamma; Lognormal; Normal	Normal
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	16	0	0%	0.880	0.038	0.247	0.010	0.910	0.115	0.203	0.078	0.216	0.01 <= p < 0.05	0.756	0.01 <= p < 0.05	0.238	Lognormal	Lognormal
14_2_3_120	MW-04	Appendix III	pH (field)	su	16	0	0%	0.883	0.043	0.167	0.274	0.887	0.050	0.168	0.264	0.174	>= 0.10	0.562	>= 0.10	0.015	Gamma; Lognormal; Normal	Normal
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.834	0.008	0.236	0.018	0.399	0.000	0.392	0.000	0.364	< 0.01	3.226	< 0.01	1.474	Nonparametric	Nonparametric
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.835	0.008	0.183	0.160	0.781	0.002	0.217	0.043	0.182	>= 0.10	0.924	0.01 <= p < 0.05	0.141	Gamma; Normal	Normal
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	16	11	69%	0.829	0.136	0.311	0.116	0.895	0.382	0.238	0.466	0.285	>= 0.10	0.456	>= 0.10	0.813	Gamma; Lognormal; Normal	Nonparametric
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	0.743	0.001	0.271	0.003	0.931	0.250	0.180	0.182	0.204	0.05 <= p < 0.10	0.621	>= 0.10	0.412	Gamma; Lognormal	Gamma
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	16	0	0%	0.593	0.000	0.332	0.000	0.794	0.002	0.224	0.031	0.246	0.01 <= p < 0.05	1.557	< 0.01	0.562	Nonparametric	Nonparametric
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.142		Nonparametric
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	16	16	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	16	0	0%	0.949	0.469	0.141	0.537	0.848	0.013	0.190	0.128	0.157	>= 0.10	0.621	>= 0.10	0.434	Gamma; Lognormal; Normal	Normal
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	16	0	0%	0.920	0.166	0.248	0.010	0.956	0.587	0.158	0.355	0.193	>= 0.10	0.392	>= 0.10	0.548	Gamma; Lognormal; Normal	Normal
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.880	0.038	0.247	0.010	0.910	0.115	0.203	0.078	0.216	0.01 <= p < 0.05	0.756	0.01 <= p < 0.05	0.238	Lognormal	Lognormal
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	16	0	0%	0.904	0.092	0.154	0.393	0.835	0.008	0.197	0.099	0.184	>= 0.10	0.657	0.05 <= p < 0.10	0.228	Gamma; Lognormal; Normal	Normal
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.856		Nonparametric
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	16	2	12%	0.473	0.000	0.400	0.000	0.878	0.054	0.227	0.049	0.311	< 0.01	1.298	< 0.01	0.848	Lognormal	Lognormal
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	16	5	31%	0.920	0.318	0.151	0.688	0.881	0.109	0.208	0.205	0.186	>= 0.10	0.516	>= 0.10	0.321	Gamma; Lognormal; Normal	Normal
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	16	5	31%	0.591	0.000	0.296	0.008	0.796	0.008	0.253	0.047	0.276	0.01 <= p < 0.05	1.194	< 0.01	0.569	Nonparametric	Nonparametric
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_5_111	MW-04	Part 115	Copper	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.706		Nonparametric
14_2_5_114	MW-04	Part 115	Iron	mg/L	16	0	0%	0.728	0.000	0.291	0.001	0.528	0.000	0.435	0.000	0.414	< 0.01	3.062	< 0.01	0.994	Nonparametric	Nonparametric
14_2_5_119	MW-04	Part 115	Nickel	mg/L	16	0	0%	0.912	0.127	0.149	0.443	0.724	0.000	0.278	0.002	0.227	0.01 <= p < 0.05	1.299	< 0.01	0.682	Normal	Normal
14_2_5_123	MW-04	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	16	10	62%	0.939	0.655	0.232	0.397	0.928	0.562	0.238	0.354	0.260	>= 0.10	0.343	>= 0.10	0.181	Gamma; Lognormal; Normal	Nonparametric
14_2_5_129	MW-04	Part 115	Zinc	mg/L	16	10	62%	0.886	0.297	0.197	0.657	0.863	0.201	0.232	0.396	0.237	>= 0.10	0.448	>= 0.10	0.613	Gamma; Lognormal; Normal	Nonparametric
16_1_3_105	MW-06	Appendix III	Boron	mg/L	16	0	0%	0.953	0.544	0.180	0.181	0.937	0.311	0.210	0.059	0.203	0.05 <= p < 0.10	0.476	>= 0.10	0.185	Gamma; Lognormal; Normal	Normal
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	16	0	0%	0.932	0.266	0.180	0.178	0.950	0.490	0.155	0.386	0.162	>= 0.10	0.364	>= 0.10	0.133	Gamma; Lognormal; Normal	Normal
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.940	0.348	0.173	0.227	0.925	0.203	0.250	0.009	0.210	0.05 <= p < 0.10	0.391	>= 0.10	0.675	Gamma; Lognormal; Normal	Normal
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	16	0	0%	0.904	0.092	0.195	0.105	0.920	0.170	0.184	0.157	0.188	>= 0.10	0.519	>= 0.10	0.155	Gamma; Lognormal; Normal	Normal
16_1_3_120	MW-06	Appendix III	pH (field)	su	16	0	0%	0.642	0.000	0.316	0.000	0.621	0.000	0.327	0.000	0.316	< 0.01	1.970	< 0.01	0.034	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			
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	16	2	12%	0.942	0.446	0.169	0.346	0.905	0.134	0.189	0.193	0.153	>= 0.10	0.325	>= 0.10	1.012	Gamma; Lognormal; Normal	Gamma
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.053		Nonparametric
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.109		Nonparametric
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	16	0	0%	0.898	0.074	0.179	0.184	0.935	0.288	0.138	0.572	0.153	>= 0.10	0.503	>= 0.10	0.234	Gamma; Lognormal; Normal	Normal
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	16	0	0%	0.911	0.120	0.191	0.125	0.863	0.021	0.216	0.045	0.203	0.05 <= p < 0.10	0.663	0.05 <= p < 0.10	0.123	Gamma; Normal	Normal
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	16	16	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	16	0	0%	0.873	0.030	0.257	0.006	0.938	0.322	0.204	0.074	0.225	0.01 <= p < 0.05	0.606	>= 0.10	0.317	Gamma; Lognormal	Gamma
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	16	0	0%	0.905	0.096	0.202	0.082	0.945	0.420	0.151	0.429	0.168	>= 0.10	0.475	>= 0.10	0.268	Gamma; Lognormal; Normal	Normal
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.904	0.092	0.195	0.105	0.920	0.170	0.184	0.157	0.188	>= 0.10	0.519	>= 0.10	0.155	Gamma; Lognormal; Normal	Normal
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	16	10	62%	0.989	0.987	0.154	0.927	0.959	0.811	0.208	0.571	0.192	>= 0.10	0.212	>= 0.10	0.370	Gamma; Lognormal; Normal	Nonparametric
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	16	0	0%	0.943	0.389	0.143	0.518	0.936	0.302	0.170	0.246	0.167	>= 0.10	0.363	>= 0.10	0.235	Gamma; Lognormal; Normal	Normal
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.197		Nonparametric
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	16	10	62%	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	16	3	19%	0.812	0.010	0.256	0.020	0.943	0.501	0.182	0.282	0.201	>= 0.10	0.500	>= 0.10	0.346	Gamma; Lognormal	Gamma
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	16	5	31%	0.675	0.000	0.348	0.001	0.796	0.008	0.298	0.007	0.318	< 0.01	1.170	< 0.01	0.282	Nonparametric	Nonparametric
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_111	MW-06	Part 115	Copper	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.177		Nonparametric
16_1_5_114	MW-06	Part 115	Iron	mg/L	16	0	0%	0.948	0.456	0.199	0.090	0.869	0.027	0.228	0.025	0.194	>= 0.10	0.643	0.05 <= p < 0.10	0.487	Gamma; Normal	Normal
16_1_5_119	MW-06	Part 115	Nickel	mg/L	16	6	38%	0.952	0.694	0.161	0.650	0.963	0.823	0.145	0.801	0.154	>= 0.10	0.261	>= 0.10	0.132	Gamma; Lognormal; Normal	Normal
16_1_5_123	MW-06	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.063		Nonparametric
16_1_5_129	MW-06	Part 115	Zinc	mg/L	16	2	12%	0.640	0.000	0.434	0.000	0.667	0.000	0.399	0.000	0.434	< 0.01	2.461	< 0.01	1.818	Nonparametric	Nonparametric
17_1_3_105	MW-07	Appendix III	Boron	mg/L	16	0	0%	0.923	0.188	0.228	0.026	0.919	0.161	0.229	0.025	0.221	0.01 <= p < 0.05	0.684	0.05 <= p < 0.10	0.102	Gamma; Lognormal; Normal	Normal
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	16	0	0%	0.906	0.100	0.204	0.075	0.898	0.075	0.213	0.051	0.217	0.01 <= p < 0.05	0.669	0.05 <= p < 0.10	0.085	Gamma; Lognormal; Normal	Normal
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.857	0.017	0.279	0.002	0.870	0.028	0.270	0.003	0.275	< 0.01	0.928	0.01 <= p < 0.05	0.085	Nonparametric	Nonparametric
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	16	4	25%	0.897	0.145	0.205	0.176	0.905	0.184	0.198	0.215	0.211	>= 0.10	0.591	>= 0.10	0.337	Gamma; Lognormal; Normal	Normal
17_1_3_120	MW-07	Appendix III	pH (field)	su	16	0	0%	0.863	0.021	0.237	0.017	0.857	0.018	0.241	0.014	0.236	0.01 <= p < 0.05	0.940	0.01 <= p < 0.05	0.018	Nonparametric	Nonparametric
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.910	0.118	0.201	0.084	0.903	0.090	0.171	0.242	0.189	>= 0.10	0.622	>= 0.10	0.320	Gamma; Lognormal; Normal	Normal
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.843	0.011	0.200	0.087	0.803	0.003	0.231	0.022	0.205	0.05 <= p < 0.10	1.118	< 0.01	0.129	Gamma; Normal	Normal
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	16	0	0%	0.954	0.562	0.155	0.381	0.932	0.258	0.190	0.125	0.173	>= 0.10	0.460	>= 0.10	0.184	Gamma; Lognormal; Normal	Normal
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	16	0	0%	0.933	0.270	0.206	0.069	0.892	0.059	0.231	0.022	0.220	0.01 <= p < 0.05	0.583	>= 0.10	0.119	Gamma; Lognormal; Normal	Normal
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.093		Nonparametric
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	16	16	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	16	0	0%	0.668	0.000	0.250	0.009	0.804	0.003	0.178	0.194	0.195	>= 0.10	1.084	< 0.01	0.237	Gamma; Lognormal	Gamma
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	16	0	0%	0.947	0.447	0.162	0.314	0.937	0.319	0.178	0.193	0.179	>= 0.10	0.457	>= 0.10	0.128	Gamma; Lognormal; Normal	Normal
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	16	4	25%	0.897	0.145	0.205	0.176	0.905	0.184	0.198	0.215	0.211	>= 0.10	0.591	>= 0.10	0.337	Gamma; Lognormal; Normal	Normal
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	16	16	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	16	0	0%	0.935	0.292	0.161	0.326	0.941	0.359	0.191	0.123	0.173	>= 0.10	0.457	>= 0.10	0.265	Gamma; Lognormal; Normal	Normal
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	16	16	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	16	2	12%	0.737	0.001	0.249	0.019	0.907	0.143	0.162	0.412	0.186	>= 0.10	0.631	0.05 <= p < 0.10	0.353	Gamma; Lognormal	Gamma
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	16	9	56%	0.808	0.049	0.288	0.083	0.867	0.174	0.246	0.228	0.265	>= 0.10	0.573	>= 0.10	0.296	Gamma; Lognormal; Normal	Nonparametric
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_111	MW-07	Part 115	Copper	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.488		Nonparametric
17_1_5_114	MW-07	Part 115	Iron	mg/L	16	0	0%	0.949	0.479	0.155	0.385	0.952	0.522	0.140	0.543	0.151	>= 0.10	0.335	>= 0.10	0.146	Gamma; Lognormal; Normal	Normal
17_1_5_119	MW-07	Part 115	Nickel	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.054		Nonparametric
17_1_5_123	MW-07	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.107		Nonparametric
17_1_5_129	MW-07	Part 115	Zinc	mg/L	16	10	62%	0.899	0.366	0.250	0.282	0.819	0.086	0.342	0.027	0.340	0.01 <= p < 0.05	0.567	>= 0.10	1.195	Gamma; Lognormal; Normal	Nonparametric
18_1_3_105	MW-08	Appendix III	Boron	mg/L	16	0	0%	0.927	0.221	0.216	0.044	0.888	0.051	0.260	0.005	0.251	< 0.01	0.821	0.01 <= p < 0.05	0.354	Lognormal; Normal	Normal
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	16	0	0%	0.888	0.051	0.199	0.090	0.888	0.051	0.188	0.139	0.197	>= 0.10	0.718	0.05 <= p < 0.10	0.104	Gamma; Lognormal; Normal	Normal
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.623	0.000	0.350	0.000	0.814	0.004	0.236	0.018	0.271	< 0.01	1.704	< 0.01	0.517	Nonparametric	Nonparametric
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	16	0	0%	0.913	0.131	0.229	0.024	0.851	0.014	0.287	0.001	0.271	< 0.01	0.991	0.01 <= p < 0.05	0.330	Normal	Normal
18_1_3_120	MW-08	Appendix III	pH (field)	su	16	0	0%	0.677	0.000	0.300	0.000	0.651	0.000	0.311	0.000	0.303	< 0.01	1.856	< 0.01	0.042	Nonparametric	Nonparametric
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	16	4	25%	0.875	0.075	0.177	0.379	0.941	0.507	0.171	0.426	0.149	>= 0.10	0.250	>= 0.10	1.197	Gamma; Lognormal; Normal	Gamma
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.920	0.168	0.194	0.112	0.960	0.667	0.167	0.270	0.175	>= 0.10	0.341	>= 0.10	0.138	Gamma; Lognormal; Normal	Normal
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	16	8	50%	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	Nonparametric
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	16	0	0%	0.886	0.047	0.169	0.253	0.763	0.001	0.248	0.010	0.207	0.05 <= p < 0.10	1.139	< 0.01	0.568	Gamma; Normal	Normal
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	16	0	0%	0.958	0.619	0.141	0.538	0.926	0.213	0.172	0.232	0.163	>= 0.10	0.424	>= 0.10	0.183	Gamma; Lognormal; Normal	Normal
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.911	0.121	0.159	0.342	0.974	0.902	0.121	0.772	0.139	>= 0.10	0.317	>= 0.10	0.302	Gamma; Lognormal; Normal	Normal
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	16	0	0%	0.908	0.109	0.200	0.087	0.945	0.417	0.192	0.119	0.204	0.05 <= p < 0.10	0.498	>= 0.10	0.370	Gamma; Lognormal; Normal	Normal
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.913	0.131	0.229	0.024	0.851	0.014	0.287	0.001	0.271	< 0.01	0.991	0.01 <= p < 0.05	0.330	Normal	Normal
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	16	10	62%	0.671	0.003	0.347	0.023	0.874	0.244	0.289	0.119	0.344	0.05 <= p < 0.10	0.617	0.05 <= p < 0.10	1.312	Gamma; Lognormal	Nonparametric
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	16	0	0%	0.931	0.255	0.153	0.403	0.929	0.236	0.186	0.147	0.181	>= 0.10	0.466	>= 0.10	0.262	Gamma; Lognormal; Normal	Normal
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	16	1	6%	0.940	0.385	0.135	0.653	0.888	0.063	0.217	0.055	0.189	>= 0.10	0.504	>= 0.10	0.751	Gamma; Lognormal; Normal	Normal
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	0.925	0.292	0.190	0.226	0.981	0.986	0.123	0.855	0.139	>= 0.10	0.198	>= 0.10	0.377	Gamma; Lognormal; Normal	Normal
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	16	6	38%	0.727	0.002	0.298	0.012	0.801	0.015	0.251	0.075	0.273	0.01 <= p < 0.05	1.073	< 0.01	0.362	Lognormal	Lognormal
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_5_111	MW-08	Part 115	Copper	mg/L	16	5	31%	0.895	0.161	0.186	0.357	0.971	0.896	0.125	0.900	0.151	>= 0.10	0.271	>= 0.10	0.403	Gamma; Lognormal; Normal	Normal
18_1_5_114	MW-08	Part 115	Iron	mg/L	16	0	0%	0.936	0.301	0.203	0.076	0.965	0.760	0.165	0.291	0.170	>= 0.10	0.326	>= 0.10	0.297	Gamma; Lognormal; Normal	Normal
18_1_5_119	MW-08	Part 115	Nickel	mg/L	16	0	0%	0.616	0.000	0.277	0.002	0.854	0.016	0.248	0.009	0.276	< 0.01	1.297	< 0.01	0.777	Nonparametric	Nonparametric
18_1_5_123	MW-08	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.809		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	16	3	19%	0.669	0.000	0.400	0.000	0.759	0.002	0.295	0.003	0.365	< 0.01	1.685	< 0.01	1.908	Nonparametric	Nonparametric
19_2_3_105	MW-09	Appendix III	Boron	mg/L	16	0	0%	0.962	0.697	0.107	0.891	0.965	0.744	0.112	0.855	0.117	>= 0.10	0.235	>= 0.10	0.097	Gamma; Lognormal; Normal	Normal
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	16	0	0%	0.946	0.424	0.139	0.555	0.931	0.248	0.181	0.175	0.169	>= 0.10	0.443	>= 0.10	0.237	Gamma; Lognormal; Normal	Normal
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.743	0.001	0.286	0.001	0.876	0.034	0.199	0.089	0.232	0.01 <= p < 0.05	1.019	< 0.01	0.572	Lognormal	Lognormal
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	16	0	0%	0.951	0.502	0.109	0.880	0.950	0.490	0.100	0.939	0.110	>= 0.10	0.291	>= 0.10	0.099	Gamma; Lognormal; Normal	Normal
19_2_3_120	MW-09	Appendix III	pH (field)	su	16	0	0%	0.897	0.071	0.227	0.027	0.902	0.085	0.224	0.032	0.224	0.01 <= p < 0.05	0.735	0.05 <= p < 0.10	0.016	Gamma; Lognormal; Normal	Normal
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.952	0.521	0.126	0.717	0.867	0.024	0.234	0.020	0.198	>= 0.10	0.663	0.05 <= p < 0.10	0.729	Gamma; Normal	Normal
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.961	0.681	0.143	0.510	0.917	0.153	0.167	0.272	0.166	>= 0.10	0.422	>= 0.10	0.273	Gamma; Lognormal; Normal	Normal
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	16	11	69%	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	16	0	0%	0.888	0.051	0.246	0.010	0.852	0.015	0.277	0.002	0.272	< 0.01	1.114	< 0.01	0.270	Normal	Normal
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	16	0	0%	0.461	0.000	0.372	0.000	0.852	0.015	0.174	0.216	0.257	< 0.01	1.624	< 0.01	0.773	Lognormal	Lognormal
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.554		Nonparametric
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	16	16	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	16	0	0%	0.946	0.436	0.144	0.505	0.951	0.513	0.136	0.600	0.134	>= 0.10	0.351	>= 0.10	0.216	Gamma; Lognormal; Normal	Normal
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	16	0	0%	0.934	0.284	0.127	0.701	0.931	0.252	0.162	0.312	0.160	>= 0.10	0.363	>= 0.10	0.466	Gamma; Lognormal; Normal	Normal
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.951	0.502	0.109	0.880	0.950	0.490	0.100	0.939	0.110	>= 0.10	0.291	>= 0.10	0.099	Gamma; Lognormal; Normal	Normal
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	16	0	0%	0.926	0.214	0.157	0.362	0.922	0.185	0.154	0.396	0.165	>= 0.10	0.472	>= 0.10	0.089	Gamma; Lognormal; Normal	Normal
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		5.113		Nonparametric
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	16	0	0%	0.965	0.754	0.139	0.557	0.914	0.134	0.189	0.134	0.163	>= 0.10	0.428	>= 0.10	0.327	Gamma; Lognormal; Normal	Normal
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	16	2	12%	0.811	0.007	0.250	0.018	0.896	0.099	0.217	0.074	0.208	>= 0.10	0.777	0.01 <= p < 0.05	0.367	Gamma; Lognormal	Gamma
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_111	MW-09	Part 115	Copper	mg/L	16	11	69%	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	16	0	0%	0.926	0.209	0.177	0.199	0.926	0.210	0.177	0.197	0.185	>= 0.10	0.477	>= 0.10	0.218	Gamma; Lognormal; Normal	Normal
19_2_5_119	MW-09	Part 115	Nickel	mg/L	16	0	0%	0.359	0.000	0.427	0.000	0.867	0.024	0.190	0.129	0.265	0.01 <= p < 0.05	2.047	< 0.01	1.224	Lognormal	Nonparametric
19_2_5_123	MW-09	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_129	MW-09	Part 115	Zinc	mg/L	16	8	50%	0.916	0.400	0.184	0.588	0.920	0.430	0.160	0.789	0.171	>= 0.10	0.257	>= 0.10	1.058	Gamma; Lognormal; Normal	Nonparametric
20_3_3_105	MW-10	Appendix III	Boron	mg/L	16	0	0%	0.921	0.175	0.168	0.267	0.888	0.052	0.207	0.065	0.205	0.05 <= p < 0.10	0.622	>= 0.10	0.570	Gamma; Lognormal; Normal	Normal
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	16	0	0%	0.878	0.037	0.202	0.080	0.961	0.688	0.131	0.655	0.152	>= 0.10	0.426	>= 0.10	0.349	Gamma; Lognormal; Normal	Normal
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.877	0.035	0.145	0.490	0.962	0.698	0.127	0.697	0.144	>= 0.10	0.337	>= 0.10	0.597	Gamma; Lognormal; Normal	Normal
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	16	0	0%	0.950	0.489	0.163	0.311	0.907	0.103	0.204	0.075	0.196	>= 0.10	0.473	>= 0.10	0.335	Gamma; Lognormal; Normal	Normal
20_3_3_120	MW-10	Appendix III	pH (field)	su	16	0	0%	0.888	0.052	0.229	0.025	0.903	0.088	0.219	0.039	0.220	0.01 <= p < 0.05	0.747	0.01 <= p < 0.05	0.048	Lognormal; Normal	Normal
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.881	0.041	0.179	0.186	0.987	0.996	0.098	0.949	0.118	>= 0.10	0.193	>= 0.10	0.651	Gamma; Lognormal; Normal	Normal
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.843	0.011	0.308	0.000	0.886	0.049	0.282	0.001	0.295	< 0.01	0.995	0.01 <= p < 0.05	0.218	Nonparametric	Nonparametric
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.542		Nonparametric
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	16	0	0%	0.894	0.065	0.167	0.277	0.985	0.991	0.093	0.971	0.121	>= 0.10	0.184	>= 0.10	0.655	Gamma; Lognormal; Normal	Normal
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	16	0	0%	0.937	0.314	0.165	0.290	0.983	0.984	0.115	0.831	0.117	>= 0.10	0.197	>= 0.10	0.367	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
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	16	7	44%	0.826	0.040	0.248	0.115	0.913	0.334	0.223	0.219	0.246	>= 0.10	0.477	>= 0.10	0.494	Gamma; Lognormal; Normal	Normal
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	16	16	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	16	0	0%	0.922	0.182	0.151	0.425	0.960	0.665	0.186	0.147	0.161	>= 0.10	0.306	>= 0.10	0.530	Gamma; Lognormal; Normal	Normal
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	0.707	0.000	0.280	0.003	0.943	0.415	0.158	0.400	0.201	>= 0.10	0.667	0.05 <= p < 0.10	0.645	Gamma; Lognormal	Gamma
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.950	0.489	0.163	0.311	0.907	0.103	0.204	0.075	0.196	>= 0.10	0.473	>= 0.10	0.335	Gamma; Lognormal; Normal	Normal
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.246		Nonparametric
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	16	0	0%	0.903	0.091	0.212	0.052	0.928	0.225	0.178	0.194	0.178	>= 0.10	0.557	>= 0.10	0.262	Gamma; Lognormal; Normal	Normal
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		6.041		Nonparametric
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	16	0	0%	0.947	0.439	0.174	0.216	0.946	0.430	0.150	0.434	0.122	>= 0.10	0.237	>= 0.10	0.656	Gamma; Lognormal; Normal	Normal
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.271		Nonparametric
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	16	1	6%	0.720	0.000	0.244	0.016	0.891	0.068	0.180	0.211	0.204	>= 0.10	0.873	0.01 <= p < 0.05	0.320	Gamma; Lognormal	Gamma
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_5_111	MW-10	Part 115	Copper	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.649		Nonparametric
20_3_5_114	MW-10	Part 115	Iron	mg/L	16	0	0%	0.922	0.185	0.189	0.129	0.931	0.250	0.161	0.329	0.175	>= 0.10	0.519	>= 0.10	0.354	Gamma; Lognormal; Normal	Normal
20_3_5_119	MW-10	Part 115	Nickel	mg/L	16	7	44%	0.678	0.001	0.369	0.001	0.757	0.007	0.340	0.003	0.357	< 0.01	1.129	< 0.01	0.269	Nonparametric	Nonparametric
20_3_5_123	MW-10	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.172		Nonparametric
20_3_5_129	MW-10	Part 115	Zinc	mg/L	16	7	44%	0.786	0.014	0.313	0.011	0.798	0.019	0.267	0.064	0.273	0.05 <= p < 0.10	0.957	0.01 <= p < 0.05	1.214	Gamma; Lognormal	Gamma
21_2_3_105	MW-11	Appendix III	Boron	mg/L	16	0	0%	0.930	0.243	0.143	0.511	0.972	0.874	0.119	0.788	0.101	>= 0.10	0.172	>= 0.10	0.612	Gamma; Lognormal; Normal	Normal
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	16	0	0%	0.978	0.948	0.110	0.873	0.929	0.232	0.154	0.397	0.143	>= 0.10	0.343	>= 0.10	0.293	Gamma; Lognormal; Normal	Normal
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.959	0.644	0.122	0.760	0.930	0.244	0.164	0.295	0.154	>= 0.10	0.318	>= 0.10	0.280	Gamma; Lognormal; Normal	Normal
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	16	0	0%	0.927	0.221	0.113	0.843	0.958	0.628	0.148	0.453	0.117	>= 0.10	0.228	>= 0.10	0.578	Gamma; Lognormal; Normal	Normal
21_2_3_120	MW-11	Appendix III	pH (field)	su	16	0	0%	0.976	0.924	0.121	0.770	0.975	0.905	0.123	0.741	0.120	>= 0.10	0.205	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	16	6	38%	0.733	0.002	0.304	0.010	0.955	0.725	0.178	0.492	0.252	>= 0.10	0.484	>= 0.10	1.535	Gamma; Lognormal	Gamma
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.830	0.007	0.214	0.049	0.918	0.154	0.174	0.217	0.179	>= 0.10	0.601	>= 0.10	0.210	Gamma; Lognormal	Gamma
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.875		Nonparametric
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	0.828	0.007	0.172	0.233	0.968	0.797	0.106	0.904	0.115	>= 0.10	0.349	>= 0.10	0.424	Gamma; Lognormal; Normal	Normal
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	16	0	0%	0.898	0.076	0.217	0.042	0.966	0.763	0.171	0.238	0.191	>= 0.10	0.401	>= 0.10	0.295	Gamma; Lognormal; Normal	Normal
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.920		Nonparametric
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	16	14	88%	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	16	0	0%	0.419	0.000	0.395	0.000	0.771	0.001	0.248	0.010	0.305	< 0.01	2.177	< 0.01	0.671	Nonparametric	Nonparametric
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	0.637	0.000	0.285	0.001	0.894	0.065	0.175	0.213	0.202	0.05 <= p < 0.10	0.984	0.01 <= p < 0.05	0.620	Gamma; Lognormal	Gamma
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.927	0.221	0.113	0.843	0.958	0.628	0.148	0.453	0.117	>= 0.10	0.228	>= 0.10	0.578	Gamma; Lognormal; Normal	Normal
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16	3	19%	0.400	0.000	0.411	0.000	0.885	0.083	0.243	0.035	0.256	0.05 <= p < 0.10	1.547	< 0.01	1.738	Gamma; Lognormal	Gamma
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	16	0	0%	0.849	0.013	0.195	0.107	0.949	0.476	0.164	0.297	0.111	>= 0.10	0.211	>= 0.10	0.953	Gamma; Lognormal; Normal	Normal
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		3.835		Nonparametric
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	16	2	12%	0.887	0.073	0.181	0.243	0.964	0.787	0.124	0.812	0.145	>= 0.10	0.294	>= 0.10	0.591	Gamma; Lognormal; Normal	Normal
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	15	4	27%	0.930	0.407	0.209	0.195	0.967	0.857	0.154	0.659	0.181	>= 0.10	0.255	>= 0.10	0.411	Gamma; Lognormal; Normal	Normal
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16	3	19%	0.679	0.000	0.318	0.001	0.841	0.022	0.234	0.050	0.270	0.01 <= p < 0.05	1.050	< 0.01	0.465	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	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_2_5_111	MW-11	Part 115	Copper	mg/L	16	4	25%	0.411	0.000	0.423	0.000	0.810	0.012	0.213	0.139	0.312	< 0.01	1.797	< 0.01	1.295	Lognormal	Nonparametric
21_2_5_114	MW-11	Part 115	Iron	mg/L	16	0	0%	0.955	0.581	0.099	0.945	0.930	0.242	0.133	0.628	0.129	>= 0.10	0.348	>= 0.10	0.359	Gamma; Lognormal; Normal	Normal
21_2_5_119	MW-11	Part 115	Nickel	mg/L	16	0	0%	0.486	0.000	0.375	0.000	0.821	0.005	0.244	0.012	0.292	< 0.01	1.723	< 0.01	0.609	Nonparametric	Nonparametric
21_2_5_123	MW-11	Part 115	Silver	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.137		Nonparametric	
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.885		Nonparametric	
21_2_5_129	MW-11	Part 115	Zinc	mg/L	16	4	25%	0.778	0.005	0.223	0.103	0.892	0.126	0.256	0.028	0.221	>= 0.10	0.660	0.05 <= p < 0.10	1.369	Gamma; Lognormal; Normal	Gamma
22_2_3_105	MW-12	Appendix III	Boron	mg/L	16	0	0%	0.908	0.106	0.181	0.176	0.912	0.127	0.178	0.191	0.177	>= 0.10	0.616	>= 0.10	0.287	Gamma; Lognormal; Normal	Normal
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	16	0	0%	0.934	0.282	0.114	0.836	0.914	0.133	0.142	0.527	0.140	>= 0.10	0.467	>= 0.10	0.291	Gamma; Lognormal; Normal	Normal
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.876	0.034	0.272	0.003	0.912	0.128	0.232	0.021	0.248	0.01 <= p < 0.05	0.777	0.01 <= p < 0.05	0.239	Lognormal	Lognormal
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	16	0	0%	0.883	0.043	0.239	0.015	0.925	0.201	0.184	0.157	0.204	0.05 <= p < 0.10	0.655	0.05 <= p < 0.10	0.308	Gamma; Lognormal	Gamma
22_2_3_120	MW-12	Appendix III	pH (field)	su	16	0	0%	0.979	0.955	0.102	0.925	0.980	0.965	0.097	0.955	0.103	>= 0.10	0.209	>= 0.10	0.043	Gamma; Lognormal; Normal	Normal
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.923	0.187	0.138	0.575	0.934	0.282	0.146	0.483	0.135	>= 0.10	0.389	>= 0.10	0.401	Gamma; Lognormal; Normal	Normal
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.951	0.508	0.162	0.315	0.885	0.047	0.168	0.263	0.176	>= 0.10	0.533	>= 0.10	0.364	Gamma; Lognormal; Normal	Normal
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	16	0	0%	0.935	0.294	0.120	0.778	0.985	0.992	0.116	0.821	0.127	>= 0.10	0.171	>= 0.10	0.478	Gamma; Lognormal; Normal	Normal
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	16	0	0%	0.859	0.018	0.212	0.052	0.925	0.206	0.195	0.107	0.210	0.05 <= p < 0.10	0.579	>= 0.10	0.374	Gamma; Lognormal; Normal	Normal
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	16	0	0%	0.842	0.010	0.181	0.173	0.944	0.396	0.155	0.385	0.161	>= 0.10	0.515	>= 0.10	0.564	Gamma; Lognormal; Normal	Normal
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	16	0	0%	0.556	0.000	0.272	0.003	0.920	0.172	0.138	0.578	0.201	>= 0.10	0.912	0.01 <= p < 0.05	0.764	Gamma; Lognormal	Gamma
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	16	6	38%	0.889	0.164	0.198	0.321	0.936	0.510	0.179	0.481	0.199	>= 0.10	0.374	>= 0.10	0.468	Gamma; Lognormal; Normal	Normal
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	16	5	31%	0.853	0.047	0.211	0.185	0.954	0.693	0.133	0.844	0.149	>= 0.10	0.304	>= 0.10	0.810	Gamma; Lognormal; Normal	Normal
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.883	0.043	0.239	0.015	0.925	0.201	0.184	0.157	0.204	0.05 <= p < 0.10	0.655	0.05 <= p < 0.10	0.308	Gamma; Lognormal	Gamma
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	16	6	38%	0.881	0.136	0.210	0.241	0.899	0.213	0.185	0.432	0.189	>= 0.10	0.485	>= 0.10	0.493	Gamma; Lognormal; Normal	Normal
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	16	0	0%	0.926	0.212	0.166	0.284	0.918	0.157	0.146	0.480	0.162	>= 0.10	0.462	>= 0.10	0.422	Gamma; Lognormal; Normal	Normal
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA		NA		3.093		Nonparametric	
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	16	0	0%	0.737	0.000	0.246	0.011	0.905	0.098	0.164	0.294	0.186	>= 0.10	0.653	0.05 <= p < 0.10	0.323	Gamma; Lognormal	Gamma
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	0.867	0.214	0.285	0.132	0.919	0.499	0.251	0.277	0.273	>= 0.10	0.375	>= 0.10	0.300	Gamma; Lognormal; Normal	Nonparametric
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	16	0	0%	0.847	0.012	0.170	0.251	0.946	0.424	0.131	0.653	0.138	>= 0.10	0.283	>= 0.10	1.073	Gamma; Lognormal; Normal	Gamma
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
22_2_5_111	MW-12	Part 115	Copper	mg/L	16	0	0%	0.872	0.029	0.144	0.507	0.988	0.998	0.103	0.921	0.103	>= 0.10	0.225	>= 0.10	0.447	Gamma; Lognormal; Normal	Normal
22_2_5_114	MW-12	Part 115	Iron	mg/L	16	6	38%	0.607	0.000	0.375	0.000	0.896	0.199	0.228	0.148	0.299	0.01 <= p < 0.05	0.875	0.01 <= p < 0.05	0.873	Lognormal	Lognormal
22_2_5_119	MW-12	Part 115	Nickel	mg/L	16	0	0%	0.845	0.011	0.192	0.117	0.953	0.536	0.142	0.528	0.148	>= 0.10	0.330	>= 0.10	0.384	Gamma; Lognormal; Normal	Normal
22_2_5_123	MW-12	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	16	6	38%	0.847	0.054	0.247	0.085	0.924	0.392	0.218	0.195	0.237	>= 0.10	0.481	>= 0.10	0.320	Gamma; Lognormal; Normal	Normal
22_2_5_129	MW-12	Part 115	Zinc	mg/L	16	0	0%	0.824	0.006	0.236	0.017	0.941	0.360	0.186	0.147	0.169	>= 0.10	0.608	>= 0.10	0.511	Gamma; Lognormal	Gamma
28_1_3_105	MW-18	Appendix III	Boron	mg/L	16	0	0%	0.907	0.106	0.164	0.302	0.912	0.127	0.168	0.265	0.165	>= 0.10	0.595	>= 0.10	0.309	Gamma; Lognormal; Normal	Normal
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	16	0	0%	0.946	0.423	0.164	0.298	0.933	0.275	0.200	0.086	0.188	>= 0.10	0.468	>= 0.10	0.195	Gamma; Lognormal; Normal	Normal
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.959	0.640	0.135	0.603	0.944	0.401	0.166	0.279	0.159	>= 0.10	0.384	>= 0.10	0.202	Gamma; Lognormal; Normal	Normal
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	16	0	0%	0.951	0.511	0.157	0.364	0.956	0.585	0.151	0.421	0.156	>= 0.10	0.394	>= 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.

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	16	0	0%	0.940	0.355	0.182	0.169	0.939	0.343	0.184	0.157	0.179	>= 0.10	0.432	>= 0.10	0.011	Gamma; Lognormal; Normal	Normal
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.897	0.071	0.267	0.003	0.935	0.297	0.219	0.038	0.235	0.01 <= p < 0.05	0.622	>= 0.10	0.254	Gamma; Lognormal; Normal	Normal
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.931	0.256	0.214	0.049	0.944	0.397	0.186	0.147	0.194	>= 0.10	0.439	>= 0.10	0.147	Gamma; Lognormal; Normal	Normal
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	16	3	19%	0.795	0.006	0.260	0.016	0.870	0.052	0.223	0.077	0.243	0.01 <= p < 0.05	0.901	0.01 <= p < 0.05	0.379	Lognormal	Lognormal
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	16	0	0%	0.958	0.632	0.157	0.368	0.975	0.907	0.132	0.642	0.125	>= 0.10	0.250	>= 0.10	0.283	Gamma; Lognormal; Normal	Normal
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	16	0	0%	0.938	0.327	0.168	0.264	0.930	0.242	0.185	0.150	0.180	>= 0.10	0.496	>= 0.10	0.270	Gamma; Lognormal; Normal	Normal
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.076		Nonparametric
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	16	7	44%	0.910	0.314	0.168	0.654	0.943	0.617	0.165	0.685	0.176	>= 0.10	0.295	>= 0.10	0.551	Gamma; Lognormal; Normal	Normal
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.654		Nonparametric
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	16	0	0%	0.819	0.005	0.293	0.001	0.931	0.255	0.221	0.036	0.252	< 0.01	0.768	0.01 <= p < 0.05	0.484	Lognormal	Lognormal
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.951	0.511	0.157	0.364	0.956	0.585	0.151	0.421	0.156	>= 0.10	0.394	>= 0.10	0.178	Gamma; Lognormal; Normal	Normal
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	16	10	62%	0.779	0.038	0.339	0.030	0.802	0.062	0.317	0.060	0.340	0.01 <= p < 0.05	0.700	0.01 <= p < 0.05	0.349	Lognormal	Nonparametric
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	16	0	0%	0.891	0.059	0.216	0.044	0.887	0.050	0.218	0.041	0.225	0.01 <= p < 0.05	0.832	0.01 <= p < 0.05	0.244	Lognormal; Normal	Normal
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	16	0	0%	0.917	0.151	0.182	0.167	0.934	0.279	0.155	0.386	0.158	>= 0.10	0.511	>= 0.10	0.261	Gamma; Lognormal; Normal	Normal
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	0.771	0.021	0.314	0.035	0.879	0.221	0.248	0.217	0.265	>= 0.10	0.569	>= 0.10	0.322	Gamma; Lognormal	Nonparametric
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	16	0	0%	0.821	0.005	0.198	0.092	0.903	0.091	0.195	0.107	0.197	>= 0.10	0.644	0.05 <= p < 0.10	0.886	Gamma; Lognormal; Normal	Normal
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_5_111	MW-18	Part 115	Copper	mg/L	16	0	0%	0.715	0.000	0.292	0.001	0.848	0.013	0.226	0.029	0.240	0.01 <= p < 0.05	1.332	< 0.01	0.474	Nonparametric	Nonparametric
28_1_5_114	MW-18	Part 115	Iron	mg/L	16	0	0%	0.959	0.635	0.137	0.583	0.984	0.987	0.111	0.861	0.125	>= 0.10	0.210	>= 0.10	0.224	Gamma; Lognormal; Normal	Normal
28_1_5_119	MW-18	Part 115	Nickel	mg/L	16	0	0%	0.856	0.017	0.264	0.004	0.928	0.231	0.204	0.074	0.227	0.01 <= p < 0.05	0.708	0.05 <= p < 0.10	0.354	Gamma; Lognormal	Gamma
28_1_5_123	MW-18	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_5_129	MW-18	Part 115	Zinc	mg/L	16	0	0%	0.977	0.935	0.104	0.917	0.944	0.397	0.157	0.367	0.124	>= 0.10	0.211	>= 0.10	0.481	Gamma; Lognormal; Normal	Normal
29_1_3_105	MW-19	Appendix III	Boron	mg/L	16	0	0%	0.925	0.203	0.122	0.755	0.926	0.209	0.124	0.732	0.131	>= 0.10	0.428	>= 0.10	0.204	Gamma; Lognormal; Normal	Normal
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	16	0	0%	0.953	0.539	0.147	0.464	0.930	0.243	0.171	0.240	0.157	>= 0.10	0.448	>= 0.10	0.119	Gamma; Lognormal; Normal	Normal
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.916	0.148	0.199	0.090	0.954	0.550	0.161	0.329	0.155	>= 0.10	0.429	>= 0.10	0.352	Gamma; Lognormal; Normal	Normal
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	16	0	0%	0.961	0.679	0.136	0.599	0.957	0.609	0.160	0.330	0.156	>= 0.10	0.301	>= 0.10	0.149	Gamma; Lognormal; Normal	Normal
29_1_3_120	MW-19	Appendix III	pH (field)	su	16	0	0%	0.903	0.091	0.139	0.562	0.893	0.062	0.143	0.514	0.136	>= 0.10	0.494	>= 0.10	0.023	Gamma; Lognormal; Normal	Normal
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.969	0.830	0.109	0.879	0.951	0.511	0.104	0.917	0.107	>= 0.10	0.225	>= 0.10	0.198	Gamma; Lognormal; Normal	Normal
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.871	0.028	0.188	0.135	0.877	0.035	0.182	0.166	0.189	>= 0.10	0.706	0.05 <= p < 0.10	0.123	Gamma; Lognormal; Normal	Normal
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.848		Nonparametric
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	16	0	0%	0.923	0.190	0.135	0.611	0.915	0.139	0.172	0.236	0.164	>= 0.10	0.497	>= 0.10	0.369	Gamma; Lognormal; Normal	Normal
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	16	0	0%	0.953	0.542	0.177	0.201	0.969	0.823	0.151	0.423	0.157	>= 0.10	0.329	>= 0.10	0.136	Gamma; Lognormal; Normal	Normal
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	16	3	19%	0.926	0.298	0.155	0.535	0.949	0.585	0.123	0.854	0.131	>= 0.10	0.296	>= 0.10	0.239	Gamma; Lognormal; Normal	Normal
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	16	16	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	16	5	31%	0.785	0.006	0.254	0.046	0.886	0.123	0.221	0.138	0.237	0.05 <= p < 0.10	0.727	0.05 <= p < 0.10	0.261	Gamma; Lognormal	Gamma
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	16	1	6%	0.945	0.448	0.165	0.336	0.943	0.425	0.179	0.220	0.137	>= 0.10	0.300	>= 0.10	0.662	Gamma; Lognormal; Normal	Normal
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.961	0.679	0.136	0.599	0.957	0.609	0.160	0.330	0.156	>= 0.10	0.301	>= 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	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		Nonparametric		
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	16	0	0%	0.930	0.241	0.185	0.150	0.930	0.241	0.162	0.319	0.169	>= 0.10	0.453	>= 0.10	0.127	Gamma; Lognormal; Normal	Normal
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	16	0	0%	0.925	0.201	0.186	0.144	0.910	0.116	0.185	0.150	0.157	>= 0.10	0.508	>= 0.10	0.406	Gamma; Lognormal; Normal	Normal
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	16	7	44%	0.889	0.195	0.225	0.212	0.879	0.155	0.224	0.213	0.225	>= 0.10	0.560	>= 0.10	0.321	Gamma; Lognormal; Normal	Normal
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	16	11	69%	0.807	0.093	0.261	0.315	0.838	0.160	0.250	0.384	0.272	>= 0.10	0.511	>= 0.10	0.215	Gamma; Lognormal; Normal	Nonparametric
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_5_111	MW-19	Part 115	Copper	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.314		Nonparametric
29_1_5_114	MW-19	Part 115	Iron	mg/L	16	0	0%	0.940	0.344	0.144	0.507	0.965	0.750	0.105	0.905	0.116	>= 0.10	0.302	>= 0.10	0.198	Gamma; Lognormal; Normal	Normal
29_1_5_119	MW-19	Part 115	Nickel	mg/L	16	1	6%	0.480	0.000	0.362	0.000	0.831	0.009	0.181	0.206	0.252	0.01 <= p < 0.05	1.465	< 0.01	0.674	Lognormal	Lognormal
29_1_5_123	MW-19	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.140		Nonparametric
29_1_5_129	MW-19	Part 115	Zinc	mg/L	16	10	62%	0.825	0.097	0.287	0.126	0.835	0.118	0.294	0.106	0.314	0.05 <= p < 0.10	0.615	0.05 <= p < 0.10	0.448	Gamma; Lognormal; Normal	Nonparametric
30_1_3_105	MW-20	Appendix III	Boron	mg/L	16	0	0%	0.897	0.072	0.201	0.083	0.919	0.163	0.196	0.104	0.197	0.05 <= p < 0.10	0.701	0.05 <= p < 0.10	0.198	Gamma; Lognormal; Normal	Normal
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	16	0	0%	0.883	0.043	0.212	0.054	0.766	0.001	0.269	0.003	0.243	0.01 <= p < 0.05	1.047	< 0.01	0.230	Normal	Normal
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.931	0.252	0.180	0.180	0.884	0.044	0.243	0.012	0.225	0.01 <= p < 0.05	0.722	0.05 <= p < 0.10	0.370	Gamma; Normal	Normal
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	16	0	0%	0.729	0.000	0.261	0.005	0.848	0.013	0.227	0.027	0.216	0.01 <= p < 0.05	1.099	< 0.01	0.301	Nonparametric	Nonparametric
30_1_3_120	MW-20	Appendix III	pH (field)	su	16	0	0%	0.926	0.209	0.208	0.063	0.925	0.201	0.208	0.062	0.216	0.01 <= p < 0.05	0.569	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.934	0.282	0.128	0.690	0.956	0.590	0.145	0.496	0.141	>= 0.10	0.238	>= 0.10	0.597	Gamma; Lognormal; Normal	Normal
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.957	0.602	0.153	0.405	0.966	0.777	0.154	0.398	0.145	>= 0.10	0.341	>= 0.10	0.132	Gamma; Lognormal; Normal	Normal
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	16	6	38%	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	16	0	0%	0.924	0.197	0.176	0.204	0.932	0.266	0.151	0.421	0.163	>= 0.10	0.471	>= 0.10	0.210	Gamma; Lognormal; Normal	Normal
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	16	0	0%	0.841	0.010	0.261	0.005	0.923	0.186	0.216	0.044	0.235	0.01 <= p < 0.05	0.794	0.01 <= p < 0.05	0.283	Lognormal	Lognormal
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	16	8	50%	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	Nonparametric
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	16	0	0%	0.959	0.650	0.142	0.523	0.961	0.681	0.164	0.298	0.164	>= 0.10	0.273	>= 0.10	0.246	Gamma; Lognormal; Normal	Normal
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.729	0.000	0.261	0.005	0.848	0.013	0.227	0.027	0.216	0.01 <= p < 0.05	1.099	< 0.01	0.301	Nonparametric	Nonparametric
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	16	0	0%	0.939	0.336	0.158	0.354	0.959	0.638	0.118	0.794	0.132	>= 0.10	0.313	>= 0.10	0.256	Gamma; Lognormal; Normal	Normal
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	16	0	0%	0.952	0.522	0.119	0.785	0.896	0.068	0.178	0.194	0.155	>= 0.10	0.577	>= 0.10	0.305	Gamma; Lognormal; Normal	Normal
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.027		Nonparametric
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	16	0	0%	0.966	0.763	0.154	0.398	0.971	0.856	0.138	0.575	0.143	>= 0.10	0.271	>= 0.10	0.159	Gamma; Lognormal; Normal	Normal
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	15	7	47%	0.816	0.042	0.287	0.051	0.886	0.215	0.259	0.117	0.281	0.05 <= p < 0.10	0.570	>= 0.10	0.389	Gamma; Lognormal; Normal	Normal
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	16	10	62%	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	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_5_111	MW-20	Part 115	Copper	mg/L	16	2	12%	0.805	0.006	0.209	0.098	0.912	0.170	0.182	0.239	0.188	>= 0.10	0.643	0.05 <= p < 0.10	0.403	Gamma; Lognormal; Normal	Normal
30_1_5_114	MW-20	Part 115	Iron	mg/L	16	0	0%	0.936	0.302	0.181	0.176	0.918	0.159	0.208	0.063	0.195	>= 0.10	0.480	>= 0.10	0.141	Gamma; Lognormal; Normal	Normal
30_1_5_119	MW-20	Part 115	Nickel	mg/L	16	0	0%	0.921	0.174	0.193	0.116	0.884	0.045	0.189	0.132	0.198	0.05 <= p < 0.10	0.596	>= 0.10	0.220	Gamma; Lognormal; Normal	Normal
30_1_5_123	MW-20	Part 115	Silver	mg/L	16	16	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.

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	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		Nonparametric		
30_1_5_129	MW-20	Part 115	Zinc	mg/L	16	0	0%	0.821	0.005	0.306	0.000	0.916	0.148	0.214	0.049	0.248	0.01 <= p < 0.05	0.862	0.01 <= p < 0.05	0.513	Lognormal	Lognormal
40_1_3_105	MW-30	Appendix III	Boron	mg/L	16	0	0%	0.699	0.000	0.256	0.006	0.821	0.005	0.213	0.050	0.226	0.01 <= p < 0.05	1.196	< 0.01	0.195	Lognormal	Lognormal
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	16	0	0%	0.745	0.001	0.307	0.000	0.818	0.005	0.271	0.003	0.284	< 0.01	1.402	< 0.01	0.247	Nonparametric	Nonparametric
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.630	0.000	0.396	0.000	0.795	0.002	0.289	0.001	0.347	< 0.01	1.917	< 0.01	0.932	Nonparametric	Nonparametric
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	16	0	0%	0.830	0.007	0.267	0.003	0.731	0.000	0.296	0.001	0.289	< 0.01	1.390	< 0.01	0.196	Nonparametric	Nonparametric
40_1_3_120	MW-30	Appendix III	pH (field)	su	16	0	0%	0.819	0.005	0.200	0.088	0.806	0.003	0.206	0.068	0.201	0.05 <= p < 0.10	0.943	0.01 <= p < 0.05	0.027	Gamma; Lognormal; Normal	Normal
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.807	0.003	0.203	0.077	0.729	0.000	0.255	0.007	0.236	0.01 <= p < 0.05	1.367	< 0.01	0.216	Normal	Normal
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.718	0.000	0.338	0.000	0.780	0.002	0.301	0.000	0.318	< 0.01	1.878	< 0.01	0.265	Nonparametric	Nonparametric
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.343		Nonparametric
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	16	2	12%	0.742	0.001	0.273	0.006	0.976	0.942	0.123	0.820	0.182	>= 0.10	0.498	>= 0.10	0.862	Gamma; Lognormal	Gamma
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	16	0	0%	0.908	0.109	0.135	0.609	0.939	0.334	0.108	0.884	0.119	>= 0.10	0.393	>= 0.10	0.296	Gamma; Lognormal; Normal	Normal
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.384		Nonparametric
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.965	0.748	0.152	0.416	0.939	0.334	0.134	0.624	0.150	>= 0.10	0.287	>= 0.10	0.418	Gamma; Lognormal; Normal	Normal
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	16	0	0%	0.341	0.000	0.428	0.000	0.781	0.002	0.215	0.047	0.321	< 0.01	2.705	< 0.01	1.133	Nonparametric	Nonparametric
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.830	0.007	0.267	0.003	0.731	0.000	0.296	0.001	0.289	< 0.01	1.390	< 0.01	0.196	Nonparametric	Nonparametric
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	16	0	0%	0.781	0.002	0.228	0.025	0.876	0.033	0.200	0.087	0.214	0.05 <= p < 0.10	0.888	0.01 <= p < 0.05	0.257	Gamma; Lognormal	Gamma
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	16	3	19%	0.481	0.000	0.351	0.000	0.898	0.127	0.200	0.167	0.275	0.01 <= p < 0.05	1.296	< 0.01	1.062	Lognormal	Nonparametric
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	16	8	50%	0.886	0.213	0.251	0.144	0.910	0.356	0.213	0.351	0.234	>= 0.10	0.462	>= 0.10	0.266	Gamma; Lognormal; Normal	Nonparametric
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	16	7	44%	0.732	0.003	0.294	0.024	0.853	0.079	0.256	0.092	0.280	0.05 <= p < 0.10	0.781	0.01 <= p < 0.05	0.433	Gamma; Lognormal	Gamma
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_5_111	MW-30	Part 115	Copper	mg/L	16	11	69%	0.906	0.443	0.233	0.496	0.964	0.836	0.190	0.797	0.219	>= 0.10	0.262	>= 0.10	0.389	Gamma; Lognormal; Normal	Nonparametric
40_1_5_114	MW-30	Part 115	Iron	mg/L	16	0	0%	0.714	0.000	0.240	0.014	0.978	0.946	0.097	0.952	0.146	>= 0.10	0.417	>= 0.10	0.769	Gamma; Lognormal	Gamma
40_1_5_119	MW-30	Part 115	Nickel	mg/L	16	3	19%	0.351	0.000	0.493	0.000	0.762	0.003	0.252	0.024	0.384	< 0.01	2.524	< 0.01	1.290	Nonparametric	Nonparametric
40_1_5_123	MW-30	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_5_129	MW-30	Part 115	Zinc	mg/L	16	10	62%	0.534	0.000	0.474	0.000	0.828	0.104	0.339	0.030	0.434	< 0.01	1.011	< 0.01	1.535	Lognormal	Nonparametric
41_1_3_105	MW-31	Appendix III	Boron	mg/L	16	0	0%	0.956	0.592	0.181	0.172	0.977	0.933	0.159	0.344	0.167	>= 0.10	0.252	>= 0.10	0.154	Gamma; Lognormal; Normal	Normal
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	16	0	0%	0.934	0.281	0.188	0.139	0.935	0.288	0.165	0.289	0.172	>= 0.10	0.455	>= 0.10	0.121	Gamma; Lognormal; Normal	Normal
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.696	0.000	0.308	0.000	0.786	0.002	0.268	0.003	0.279	< 0.01	1.280	< 0.01	0.152	Nonparametric	Nonparametric
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	16	0	0%	0.929	0.238	0.196	0.101	0.922	0.182	0.201	0.083	0.190	>= 0.10	0.582	>= 0.10	0.071	Gamma; Lognormal; Normal	Normal
41_1_3_120	MW-31	Appendix III	pH (field)	su	16	0	0%	0.920	0.166	0.166	0.279	0.922	0.184	0.164	0.302	0.162	>= 0.10	0.515	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.921	0.178	0.138	0.568	0.916	0.144	0.143	0.518	0.129	>= 0.10	0.417	>= 0.10	0.553	Gamma; Lognormal; Normal	Normal
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.924	0.195	0.169	0.253	0.934	0.280	0.154	0.393	0.160	>= 0.10	0.394	>= 0.10	0.087	Gamma; Lognormal; Normal	Normal
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	16	7	44%	0.791	0.016	0.283	0.037	0.903	0.272	0.256	0.092	0.288	0.01 <= p < 0.05	0.559	>= 0.10	0.994	Gamma; Lognormal	Gamma
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	16	0	0%	0.944	0.397	0.217	0.043	0.961	0.687	0.174	0.218	0.191	>= 0.10	0.384	>= 0.10	0.249	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
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	16	0	0%	0.945	0.408	0.161	0.325	0.979	0.958	0.113	0.843	0.133	>= 0.10	0.244	>= 0.10	0.294	Gamma; Lognormal; Normal	Normal
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.407		Nonparametric
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.861	0.020	0.169	0.259	0.929	0.233	0.127	0.704	0.143	>= 0.10	0.490	>= 0.10	0.239	Gamma; Lognormal; Normal	Normal
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	0.853	0.031	0.238	0.043	0.949	0.576	0.181	0.289	0.202	>= 0.10	0.508	>= 0.10	0.323	Gamma; Lognormal	Gamma
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.929	0.238	0.196	0.101	0.922	0.182	0.201	0.083	0.190	>= 0.10	0.582	>= 0.10	0.071	Gamma; Lognormal; Normal	Normal
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	16	13	81%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.124		Nonparametric
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	16	0	0%	0.937	0.309	0.171	0.242	0.889	0.053	0.189	0.130	0.193	>= 0.10	0.697	0.05 <= p < 0.10	0.179	Gamma; Lognormal; Normal	Normal
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.617		Nonparametric
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	16	0	0%	0.459	0.000	0.355	0.000	0.822	0.005	0.234	0.019	0.284	< 0.01	1.861	< 0.01	0.668	Nonparametric	Nonparametric
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	16	6	38%	0.779	0.008	0.268	0.040	0.845	0.051	0.212	0.228	0.224	>= 0.10	0.850	0.01 <= p < 0.05	0.302	Gamma; Lognormal	Gamma
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	16	6	38%	0.530	0.000	0.384	0.000	0.723	0.002	0.308	0.008	0.350	< 0.01	1.523	< 0.01	0.587	Nonparametric	Nonparametric
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_5_111	MW-31	Part 115	Copper	mg/L	16	10	62%	0.919	0.498	0.232	0.393	0.966	0.865	0.194	0.680	0.195	>= 0.10	0.260	>= 0.10	0.218	Gamma; Lognormal; Normal	Nonparametric
41_1_5_114	MW-31	Part 115	Iron	mg/L	16	0	0%	0.832	0.008	0.265	0.004	0.874	0.032	0.236	0.017	0.264	< 0.01	0.895	0.01 <= p < 0.05	1.058	Nonparametric	Nonparametric
41_1_5_119	MW-31	Part 115	Nickel	mg/L	16	10	62%	0.553	0.000	0.425	0.001	0.794	0.052	0.345	0.025	0.382	0.01 <= p < 0.05	0.926	0.01 <= p < 0.05	2.005	Lognormal	Nonparametric
41_1_5_123	MW-31	Part 115	Silver	mg/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.271		Nonparametric
41_1_5_129	MW-31	Part 115	Zinc	mg/L	16	9	56%	0.857	0.141	0.251	0.202	0.818	0.062	0.286	0.087	0.277	>= 0.10	0.679	0.05 <= p < 0.10	0.974	Gamma; Lognormal; Normal	Nonparametric
42_1_3_105	MW-32	Appendix III	Boron	mg/L	16	0	0%	0.839	0.009	0.270	0.003	0.878	0.037	0.261	0.005	0.271	< 0.01	0.983	0.01 <= p < 0.05	0.235	Nonparametric	Nonparametric
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	16	0	0%	0.952	0.528	0.175	0.209	0.954	0.563	0.159	0.340	0.168	>= 0.10	0.452	>= 0.10	0.145	Gamma; Lognormal; Normal	Normal
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.937	0.310	0.195	0.108	0.931	0.257	0.192	0.118	0.204	0.05 <= p < 0.10	0.513	>= 0.10	0.100	Gamma; Lognormal; Normal	Normal
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	16	0	0%	0.901	0.084	0.233	0.020	0.915	0.139	0.214	0.048	0.221	0.01 <= p < 0.05	0.749	0.01 <= p < 0.05	0.106	Lognormal; Normal	Normal
42_1_3_120	MW-32	Appendix III	pH (field)	su	16	0	0%	0.956	0.586	0.118	0.802	0.956	0.589	0.118	0.797	0.125	>= 0.10	0.353	>= 0.10	0.009	Gamma; Lognormal; Normal	Normal
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.912	0.125	0.163	0.307	0.893	0.061	0.188	0.135	0.168	>= 0.10	0.517	>= 0.10	1.194	Gamma; Lognormal; Normal	Gamma
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.926	0.214	0.158	0.357	0.927	0.217	0.155	0.388	0.165	>= 0.10	0.425	>= 0.10	0.129	Gamma; Lognormal; Normal	Normal
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	16	12	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.090		Nonparametric
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	0.424	0.000	0.437	0.000	0.629	0.000	0.324	0.000	0.373	< 0.01	2.619	< 0.01	0.413	Nonparametric	Nonparametric
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	16	0	0%	0.967	0.780	0.176	0.206	0.848	0.013	0.177	0.198	0.146	>= 0.10	0.355	>= 0.10	0.724	Gamma; Lognormal; Normal	Normal
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.404	0.000	0.392	0.000	0.645	0.000	0.242	0.013	0.293	< 0.01	2.661	< 0.01	0.553	Nonparametric	Nonparametric
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	0.579	0.000	0.297	0.001	0.872	0.029	0.160	0.334	0.201	0.05 <= p < 0.10	1.133	< 0.01	0.512	Gamma; Lognormal	Gamma
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.901	0.084	0.233	0.020	0.915	0.139	0.214	0.048	0.221	0.01 <= p < 0.05	0.749	0.01 <= p < 0.05	0.106	Lognormal; Normal	Normal
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	16	11	69%	0.781	0.056	0.330	0.080	0.769	0.044	0.345	0.052	0.365	0.01 <= p < 0.05	0.721	0.01 <= p < 0.05	0.616	Lognormal; Normal	Nonparametric
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	16	0	0%	0.901	0.083	0.137	0.585	0.932	0.267	0.147	0.467	0.150	>= 0.10	0.409	>= 0.10	0.239	Gamma; Lognormal; Normal	Normal
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		5.209		Nonparametric
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	16	0	0%	0.895	0.066	0.168	0.264	0.942	0.371	0.135	0.603	0.134	>= 0.10	0.418	>= 0.10	0.283	Gamma; Lognormal; Normal	Normal
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	0.892	0.285	0.251	0.201	0.883	0.238	0.272	0.121	0.280	>= 0.10	0.528	>= 0.10	0.227	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.

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			
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	16	13	81%	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	16	16	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	16	9	56%	0.464	0.000	0.497	0.000	0.608	0.000	0.417	0.001	0.495	< 0.01	1.755	< 0.01	1.533	Nonparametric	Nonparametric
42_1_5_114	MW-32	Part 115	Iron	mg/L	16	0	0%	0.950	0.485	0.133	0.626	0.930	0.245	0.148	0.463	0.150	>= 0.10	0.398	>= 0.10	0.189	Gamma; Lognormal; Normal	Normal
42_1_5_119	MW-32	Part 115	Nickel	mg/L	16	0	0%	0.320	0.000	0.477	0.000	0.579	0.000	0.298	0.000	0.384	< 0.01	3.756	< 0.01	0.820	Nonparametric	Nonparametric
42_1_5_123	MW-32	Part 115	Silver	mg/L	16	16	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	16	16	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	16	0	0%	0.617	0.000	0.418	0.000	0.747	0.001	0.319	0.000	0.383	< 0.01	2.285	< 0.01	1.221	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	16	0	0%	0.198	0.386	
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	16	0	0%	0.166	0.468	
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.090	0.694	
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	16	0	0%	0.284	0.213	
11_2_3_120	MW-01R	Appendix III	pH (field)	su	16	0	0%	-0.083	0.717	
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.169	0.459	
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.011	0.960	
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	16	3	19%	0.407	0.101	
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	-0.062	0.787	
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	16	0	0%	0.388	0.089	
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	16	2	12%	0.377	0.117	
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	16	13	81%	-0.267	0.464	
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.112	0.623	
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	-0.230	0.314	
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.284	0.213	
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	16	2	12%	-0.042	0.861	
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	16	0	0%	0.179	0.433	
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	0.035	0.884	
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	-0.747	0.021	*
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	16	0	0%	-0.126	0.581	
11_2_5_111	MW-01R	Part 115	Copper	mg/L	16	6	38%	-0.262	0.339	
11_2_5_114	MW-01R	Part 115	Iron	mg/L	16	0	0%	0.427	0.062	
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	16	0	0%	-0.126	0.581	
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	16	2	12%	0.200	0.407	
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	16	3	19%	0.048	0.847	
12_2_3_105	MW-02	Appendix III	Boron	mg/L	16	0	0%	0.585	0.010	*
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	16	0	0%	-0.040	0.862	
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.091	0.691	
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	16	0	0%	0.421	0.065	
12_2_3_120	MW-02	Appendix III	pH (field)	su	16	0	0%	0.088	0.700	
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	16	10	62%	-0.530	0.100	
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.310	0.174	
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16	3	19%	-0.047	0.849	
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	16	0	0%	0.177	0.438	
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	16	0	0%	0.181	0.429	
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	16	1	6%	0.215	0.359	
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	16	11	69%	-0.299	0.376	
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.125	0.584	
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	16	0	0%	0.125	0.584	
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.421	0.065	
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	16	1	6%	-0.082	0.725	

(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_116	MW-02	Appendix IV	Lithium	mg/L	16	0	0%	0.223	0.328	
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	16	14	88%	-0.500	0.157	
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	16	0	0%	0.356	0.119	
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	15	5	33%	0.154	0.575	
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	16	0	0%	0.180	0.430	
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	
12_2_5_111	MW-02	Part 115	Copper	mg/L	16	0	0%	-0.061	0.790	
12_2_5_114	MW-02	Part 115	Iron	mg/L	16	0	0%	0.096	0.673	
12_2_5_119	MW-02	Part 115	Nickel	mg/L	16	0	0%	0.261	0.252	
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	16	1	6%	0.186	0.427	
12_2_5_129	MW-02	Part 115	Zinc	mg/L	16	0	0%	0.055	0.809	
13_2_3_105	MW-03	Appendix III	Boron	mg/L	16	0	0%	-0.415	0.069	
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	16	0	0%	0.086	0.707	
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.489	0.032	*
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	16	0	0%	0.010	0.965	
13_2_3_120	MW-03	Appendix III	pH (field)	su	16	0	0%	-0.194	0.396	
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.509	0.026	*
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.591	0.010	**
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	16	10	62%	-0.085	0.792	
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	16	0	0%	0.095	0.677	
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	16	0	0%	-0.374	0.102	
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	16	10	62%	-0.657	0.042	*
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	16	15	94%	NA	NA	
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.037	0.873	
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	16	0	0%	-0.151	0.507	
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.010	0.965	
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	16	15	94%	NA	NA	
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	16	0	0%	0.344	0.132	
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	16	13	81%	-0.166	0.650	
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	16	12	75%	-0.385	0.276	
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	15	1	7%	-0.142	0.557	
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	16	3	19%	0.177	0.475	
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	
13_2_5_111	MW-03	Part 115	Copper	mg/L	16	7	44%	-0.557	0.050	
13_2_5_114	MW-03	Part 115	Iron	mg/L	16	0	0%	0.597	0.009	**
13_2_5_119	MW-03	Part 115	Nickel	mg/L	16	1	6%	-0.028	0.905	
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	16	9	56%	0.003	0.992	
13_2_5_129	MW-03	Part 115	Zinc	mg/L	16	9	56%	0.345	0.263	
14_2_3_105	MW-04	Appendix III	Boron	mg/L	16	0	0%	0.180	0.431	
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	16	0	0%	-0.074	0.746	
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.694	0.002	**
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	16	0	0%	0.059	0.796	

(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_120	MW-04	Appendix III	pH (field)	su	16	0	0%	0.051	0.823	
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.272	0.234	
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.148	0.517	
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	16	11	69%	-0.454	0.179	
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	0.117	0.608	
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	16	0	0%	-0.082	0.720	
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	16	14	88%	-0.500	0.157	
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.129	0.571	
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	16	0	0%	0.341	0.135	
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.059	0.796	
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	16	15	94%	NA	NA	
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	16	0	0%	-0.058	0.798	
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	16	14	88%	-0.500	0.157	
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	16	2	12%	0.061	0.799	
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	16	5	31%	0.386	0.145	
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	16	5	31%	-0.265	0.316	
14_2_5_111	MW-04	Part 115	Copper	mg/L	16	13	81%	-0.132	0.717	
14_2_5_114	MW-04	Part 115	Iron	mg/L	16	0	0%	0.540	0.018	*
14_2_5_119	MW-04	Part 115	Nickel	mg/L	16	0	0%	0.120	0.598	
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	16	10	62%	-0.491	0.128	
14_2_5_129	MW-04	Part 115	Zinc	mg/L	16	10	62%	-0.299	0.354	
16_1_3_105	MW-06	Appendix III	Boron	mg/L	16	0	0%	0.044	0.849	
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	16	0	0%	0.383	0.093	
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.586	0.010	*
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	16	0	0%	0.033	0.885	
16_1_3_120	MW-06	Appendix III	pH (field)	su	16	0	0%	0.100	0.661	
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	16	2	12%	-0.053	0.824	
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.167	0.465	
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	16	14	88%	-0.500	0.157	
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	16	0	0%	0.290	0.203	
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	16	0	0%	0.190	0.405	
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	16	15	94%	NA	NA	
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.383	0.093	
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	16	0	0%	0.514	0.024	*
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.033	0.885	
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	16	10	62%	0.149	0.643	
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	16	0	0%	0.406	0.075	
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	16	14	88%	-0.500	0.157	
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	16	10	62%	0.402	0.213	
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	-0.294	0.235	
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	16	5	31%	-0.100	0.705	
16_1_5_111	MW-06	Part 115	Copper	mg/L	16	12	75%	-0.543	0.125	

(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.
16_1_5_114	MW-06	Part 115	Iron	mg/L	16	0	0%	0.419	0.066	
16_1_5_119	MW-06	Part 115	Nickel	mg/L	16	6	38%	0.381	0.164	
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	16	14	88%	-0.500	0.157	
16_1_5_129	MW-06	Part 115	Zinc	mg/L	16	2	12%	-0.222	0.356	
17_1_3_105	MW-07	Appendix III	Boron	mg/L	16	0	0%	-0.048	0.832	
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	16	0	0%	-0.331	0.147	
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.740	0.001	**
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	16	4	25%	-0.079	0.759	
17_1_3_120	MW-07	Appendix III	pH (field)	su	16	0	0%	0.145	0.524	
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.179	0.434	
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.241	0.291	
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	16	15	94%	NA	NA	
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	16	0	0%	0.031	0.893	
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	16	0	0%	0.511	0.025	*
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	16	13	81%	-0.403	0.269	
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.021	0.928	
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	16	0	0%	0.126	0.581	
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	16	4	25%	-0.079	0.759	
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	16	0	0%	-0.280	0.221	
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	16	2	12%	-0.238	0.324	
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	16	9	56%	-0.507	0.101	
17_1_5_111	MW-07	Part 115	Copper	mg/L	16	12	75%	-0.160	0.652	
17_1_5_114	MW-07	Part 115	Iron	mg/L	16	0	0%	0.417	0.068	
17_1_5_119	MW-07	Part 115	Nickel	mg/L	16	14	88%	-0.500	0.157	
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	16	12	75%	-0.260	0.462	
17_1_5_129	MW-07	Part 115	Zinc	mg/L	16	10	62%	-0.521	0.107	
18_1_3_105	MW-08	Appendix III	Boron	mg/L	16	0	0%	0.147	0.519	
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	16	0	0%	0.200	0.382	
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.083	0.718	
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	16	0	0%	0.294	0.197	
18_1_3_120	MW-08	Appendix III	pH (field)	su	16	0	0%	0.074	0.746	
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	16	4	25%	0.530	0.038	*
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.118	0.607	
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	16	8	50%	-0.048	0.871	
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	16	0	0%	0.353	0.122	
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	16	0	0%	0.214	0.348	
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	16	15	94%	NA	NA	
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	16	15	94%	NA	NA	
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.507	0.026	*
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	16	0	0%	-0.251	0.272	
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.294	0.197	

(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_4_115	MW-08	Appendix IV	Lead	mg/L	16	10	62%	-0.313	0.333	
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	16	0	0%	0.471	0.039	*
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	16	1	6%	0.256	0.274	
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	0.165	0.506	
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	16	6	38%	-0.224	0.413	
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	
18_1_5_111	MW-08	Part 115	Copper	mg/L	16	5	31%	0.292	0.269	
18_1_5_114	MW-08	Part 115	Iron	mg/L	16	0	0%	0.399	0.081	
18_1_5_119	MW-08	Part 115	Nickel	mg/L	16	0	0%	0.221	0.333	
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	16	14	88%	-0.500	0.157	
18_1_5_129	MW-08	Part 115	Zinc	mg/L	16	3	19%	-0.274	0.269	
19_2_3_105	MW-09	Appendix III	Boron	mg/L	16	0	0%	0.058	0.799	
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	16	0	0%	0.378	0.097	
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.695	0.002	**
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	16	0	0%	0.282	0.216	
19_2_3_120	MW-09	Appendix III	pH (field)	su	16	0	0%	0.345	0.130	
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.485	0.034	*
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.566	0.013	*
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	16	11	69%	-0.610	0.071	
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	16	0	0%	0.064	0.779	
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	16	0	0%	0.171	0.454	
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	16	13	81%	-0.172	0.637	
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.102	0.656	
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	16	0	0%	0.031	0.892	
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.282	0.216	
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	16	0	0%	0.164	0.471	
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	16	13	81%	-0.105	0.773	
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	16	0	0%	0.370	0.105	
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	16	15	94%	NA	NA	
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	16	2	12%	0.449	0.063	
19_2_5_111	MW-09	Part 115	Copper	mg/L	16	11	69%	-0.398	0.239	
19_2_5_114	MW-09	Part 115	Iron	mg/L	16	0	0%	0.270	0.236	
19_2_5_119	MW-09	Part 115	Nickel	mg/L	16	0	0%	-0.066	0.773	
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	16	15	94%	NA	NA	
19_2_5_129	MW-09	Part 115	Zinc	mg/L	16	8	50%	-0.542	0.067	
20_3_3_105	MW-10	Appendix III	Boron	mg/L	16	0	0%	0.539	0.018	*
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	16	0	0%	0.454	0.047	*
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.403	0.077	
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	16	0	0%	0.556	0.015	*
20_3_3_120	MW-10	Appendix III	pH (field)	su	16	0	0%	0.056	0.808	
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.382	0.094	

(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_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.373	0.102	
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	16	12	75%	-0.363	0.304	
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	16	0	0%	0.254	0.266	
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	16	0	0%	0.291	0.203	
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	16	7	44%	-0.226	0.426	
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.529	0.020	*
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	0.102	0.663	
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.556	0.015	*
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	16	14	88%	-0.500	0.157	
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	16	0	0%	-0.115	0.614	
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	16	14	88%	-0.500	0.157	
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	16	0	0%	0.188	0.410	
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	16	12	75%	0.163	0.646	
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	16	1	6%	0.017	0.941	
20_3_5_111	MW-10	Part 115	Copper	mg/L	16	13	81%	-0.659	0.071	
20_3_5_114	MW-10	Part 115	Iron	mg/L	16	0	0%	0.409	0.073	
20_3_5_119	MW-10	Part 115	Nickel	mg/L	16	7	44%	-0.202	0.477	
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	16	12	75%	-0.305	0.388	
20_3_5_129	MW-10	Part 115	Zinc	mg/L	16	7	44%	0.098	0.730	
21_2_3_105	MW-11	Appendix III	Boron	mg/L	16	0	0%	0.411	0.071	
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	16	0	0%	0.262	0.251	
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.081	0.724	
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	16	0	0%	0.259	0.257	
21_2_3_120	MW-11	Appendix III	pH (field)	su	16	0	0%	0.218	0.339	
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	16	6	38%	0.563	0.040	*
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.189	0.407	
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	16	12	75%	-0.539	0.127	
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	0.178	0.434	
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	16	0	0%	0.232	0.309	
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	16	13	81%	-0.667	0.068	
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	16	14	88%	-0.500	0.157	
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.067	0.770	
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	-0.210	0.357	
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.259	0.257	
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16	3	19%	-0.063	0.800	
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	16	0	0%	0.322	0.158	
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	16	13	81%	-0.167	0.646	
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	16	2	12%	-0.013	0.958	
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	15	4	27%	-0.070	0.792	
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16	3	19%	0.232	0.351	
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	
21_2_5_111	MW-11	Part 115	Copper	mg/L	16	4	25%	-0.126	0.622	

(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.
21_2_5_114	MW-11	Part 115	Iron	mg/L	16	0	0%	0.396	0.083	
21_2_5_119	MW-11	Part 115	Nickel	mg/L	16	0	0%	-0.070	0.760	
21_2_5_123	MW-11	Part 115	Silver	mg/L	16	14	88%	-0.500	0.157	
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	16	13	81%	-0.666	0.068	
21_2_5_129	MW-11	Part 115	Zinc	mg/L	16	4	25%	-0.036	0.887	
22_2_3_105	MW-12	Appendix III	Boron	mg/L	16	0	0%	0.142	0.535	
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	16	0	0%	0.040	0.860	
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.088	0.700	
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	16	0	0%	0.092	0.686	
22_2_3_120	MW-12	Appendix III	pH (field)	su	16	0	0%	0.130	0.569	
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.509	0.026	*
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.010	0.966	
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	16	0	0%	0.252	0.269	
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	16	0	0%	0.026	0.909	
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	16	0	0%	0.270	0.236	
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	16	0	0%	0.028	0.904	
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	16	6	38%	0.037	0.892	
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	16	5	31%	-0.100	0.705	
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.092	0.686	
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	16	6	38%	-0.032	0.907	
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	16	0	0%	0.102	0.656	
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	16	12	75%	0.119	0.736	
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	16	0	0%	0.078	0.732	
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	0.082	0.800	
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	16	0	0%	0.165	0.469	
22_2_5_111	MW-12	Part 115	Copper	mg/L	16	0	0%	0.585	0.010	*
22_2_5_114	MW-12	Part 115	Iron	mg/L	16	6	38%	-0.053	0.848	
22_2_5_119	MW-12	Part 115	Nickel	mg/L	16	0	0%	-0.060	0.793	
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	16	6	38%	0.004	0.988	
22_2_5_129	MW-12	Part 115	Zinc	mg/L	16	0	0%	0.035	0.879	
28_1_3_105	MW-18	Appendix III	Boron	mg/L	16	0	0%	0.790	0.001	***
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	16	0	0%	0.311	0.174	
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.007	0.976	
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	16	0	0%	0.180	0.430	
28_1_3_120	MW-18	Appendix III	pH (field)	su	16	0	0%	0.205	0.370	
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.079	0.729	
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.283	0.215	
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	16	3	19%	-0.280	0.259	
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	16	0	0%	0.255	0.265	
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	16	0	0%	0.284	0.214	
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	16	14	88%	-0.500	0.157	
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	16	7	44%	0.229	0.420	

(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_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	16	14	88%	-0.500	0.157	
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	16	0	0%	0.641	0.005	**
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.180	0.430	
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	16	10	62%	-0.336	0.298	
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	16	0	0%	0.238	0.297	
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	16	0	0%	0.262	0.252	
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	-0.013	0.967	
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	16	0	0%	0.150	0.510	
28_1_5_111	MW-18	Part 115	Copper	mg/L	16	0	0%	-0.004	0.987	
28_1_5_114	MW-18	Part 115	Iron	mg/L	16	0	0%	0.450	0.049	*
28_1_5_119	MW-18	Part 115	Nickel	mg/L	16	0	0%	0.597	0.009	**
28_1_5_129	MW-18	Part 115	Zinc	mg/L	16	0	0%	0.353	0.122	
29_1_3_105	MW-19	Appendix III	Boron	mg/L	16	0	0%	-0.083	0.717	
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	16	0	0%	0.283	0.215	
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.591	0.010	**
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	16	0	0%	0.311	0.172	
29_1_3_120	MW-19	Appendix III	pH (field)	su	16	0	0%	-0.194	0.395	
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.012	0.959	
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.699	0.002	**
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	16	12	75%	0.269	0.446	
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	16	0	0%	0.288	0.208	
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	16	0	0%	0.413	0.070	
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	16	3	19%	0.075	0.762	
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	16	5	31%	0.266	0.314	
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	16	1	6%	0.205	0.381	
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.311	0.172	
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	16	0	0%	0.359	0.116	
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	16	0	0%	0.359	0.116	
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	16	7	44%	0.275	0.334	
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	16	11	69%	-0.362	0.284	
29_1_5_111	MW-19	Part 115	Copper	mg/L	16	13	81%	-0.041	0.910	
29_1_5_114	MW-19	Part 115	Iron	mg/L	16	0	0%	0.452	0.048	*
29_1_5_119	MW-19	Part 115	Nickel	mg/L	16	1	6%	0.093	0.690	
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	16	14	88%	-0.500	0.157	
29_1_5_129	MW-19	Part 115	Zinc	mg/L	16	10	62%	-0.462	0.152	
30_1_3_105	MW-20	Appendix III	Boron	mg/L	16	0	0%	0.055	0.811	
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	16	0	0%	0.138	0.547	
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.567	0.013	*
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	16	0	0%	0.070	0.758	
30_1_3_120	MW-20	Appendix III	pH (field)	su	16	0	0%	-0.019	0.934	

(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_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.622	0.006	**
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.413	0.070	
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	16	6	38%	0.197	0.472	
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	16	0	0%	0.080	0.726	
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	16	0	0%	0.192	0.399	
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	16	15	94%	NA	NA	
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	16	8	50%	-0.184	0.534	
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	16	0	0%	0.759	0.001	***
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.070	0.758	
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	16	0	0%	0.278	0.223	
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	16	0	0%	0.320	0.161	
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	16	14	88%	-0.500	0.157	
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	16	0	0%	0.288	0.206	
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	15	7	47%	0.083	0.779	
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	16	10	62%	-0.117	0.718	
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	
30_1_5_111	MW-20	Part 115	Copper	mg/L	16	2	12%	0.103	0.669	
30_1_5_114	MW-20	Part 115	Iron	mg/L	16	0	0%	0.176	0.442	
30_1_5_119	MW-20	Part 115	Nickel	mg/L	16	0	0%	0.669	0.003	**
30_1_5_129	MW-20	Part 115	Zinc	mg/L	16	0	0%	-0.178	0.436	
40_1_3_105	MW-30	Appendix III	Boron	mg/L	16	0	0%	-0.039	0.865	
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	16	0	0%	0.111	0.625	
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.737	0.001	**
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	16	0	0%	-0.260	0.254	
40_1_3_120	MW-30	Appendix III	pH (field)	su	16	0	0%	0.028	0.901	
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.206	0.366	
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.577	0.012	*
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	16	14	88%	-0.500	0.157	
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	16	2	12%	0.613	0.011	*
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	16	0	0%	0.347	0.128	
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	16	13	81%	-0.652	0.074	
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.187	0.413	
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	16	0	0%	-0.076	0.738	
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.260	0.254	
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	16	15	94%	NA	NA	
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	16	0	0%	-0.007	0.976	
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	16	15	94%	NA	NA	
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	16	3	19%	0.016	0.949	
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	16	8	50%	-0.415	0.161	
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	16	7	44%	-0.294	0.301	
40_1_5_111	MW-30	Part 115	Copper	mg/L	16	11	69%	0.010	0.975	
40_1_5_114	MW-30	Part 115	Iron	mg/L	16	0	0%	-0.065	0.774	

(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.
40_1_5_119	MW-30	Part 115	Nickel	mg/L	16	3	19%	-0.067	0.788	
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	16	15	94%	NA	NA	
40_1_5_129	MW-30	Part 115	Zinc	mg/L	16	10	62%	-0.245	0.448	
41_1_3_105	MW-31	Appendix III	Boron	mg/L	16	0	0%	0.193	0.398	
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	16	0	0%	0.145	0.525	
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.001	0.996	
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	16	0	0%	0.318	0.163	
41_1_3_120	MW-31	Appendix III	pH (field)	su	16	0	0%	-0.225	0.323	
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.315	0.167	
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.105	0.646	
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	16	7	44%	0.505	0.076	
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	16	0	0%	-0.017	0.941	
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	16	0	0%	-0.080	0.725	
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	16	14	88%	-0.500	0.157	
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	16	15	94%	NA	NA	
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.105	0.646	
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	-0.597	0.016	*
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.318	0.163	
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	16	13	81%	-0.167	0.648	
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	16	0	0%	0.155	0.496	
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	16	14	88%	-0.500	0.157	
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.096	0.674	
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	16	6	38%	-0.378	0.168	
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	16	6	38%	-0.132	0.630	
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	16	15	94%	NA	NA	
41_1_5_111	MW-31	Part 115	Copper	mg/L	16	10	62%	-0.384	0.235	
41_1_5_114	MW-31	Part 115	Iron	mg/L	16	0	0%	0.581	0.011	*
41_1_5_119	MW-31	Part 115	Nickel	mg/L	16	10	62%	-0.064	0.843	
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	16	12	75%	-0.123	0.728	
41_1_5_129	MW-31	Part 115	Zinc	mg/L	16	9	56%	-0.132	0.668	
42_1_3_105	MW-32	Appendix III	Boron	mg/L	16	0	0%	0.002	0.994	
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	16	0	0%	0.456	0.046	*
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.470	0.039	*
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	16	0	0%	-0.237	0.298	
42_1_3_120	MW-32	Appendix III	pH (field)	su	16	0	0%	0.127	0.578	
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.350	0.126	
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.370	0.105	
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	16	12	75%	0.004	0.991	
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	-0.065	0.776	
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	16	0	0%	0.364	0.111	
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	16	15	94%	NA	NA	
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	16	15	94%	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.
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.111	0.626	
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	-0.202	0.377	
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.237	0.298	
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	16	11	69%	0.425	0.209	
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	16	0	0%	0.027	0.907	
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	16	14	88%	-0.500	0.157	
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	16	0	0%	0.216	0.343	
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	-0.035	0.911	
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	16	13	81%	-0.172	0.637	
42_1_5_111	MW-32	Part 115	Copper	mg/L	16	9	56%	-0.183	0.554	
42_1_5_114	MW-32	Part 115	Iron	mg/L	16	0	0%	0.563	0.014	*
42_1_5_119	MW-32	Part 115	Nickel	mg/L	16	0	0%	-0.092	0.686	
42_1_5_129	MW-32	Part 115	Zinc	mg/L	16	0	0%	0.274	0.230	

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 5: Outlier Counts by Date

Date	Count
2022-11-30	2
2023-01-03	9
2023-01-04	7
2023-01-05	1
2023-02-06	1
2023-02-08	1
2023-03-13	1
2023-03-14	2
2023-04-18	6
2023-05-22	1
2023-05-23	3
2023-06-27	1
2023-06-28	3
2023-08-07	1
2023-10-24	3
2024-02-12	7
2024-02-13	10
2024-04-07	3
2024-07-17	2
2024-07-18	1
2024-10-15	1
2024-10-16	7
2025-02-25	10
2025-02-26	2
2025-04-20	2
2025-04-21	5
2025-08-12	3
2025-08-13	3
2025-08-14	1

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	16	0	0%	16	2023-01-03	NA	6.02
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	16	3	19%	13	2023-04-18	5	0.00120
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	16	2024-02-13	1	0.00410
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	16	0	0%	16	2024-02-13	1	0.0220
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	16	2023-06-28	1	0.00450
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	16	2	12%	14	2023-06-28	5	0.00530
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	14	2024-02-13	1	0.00560
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	16	0	0%	16	2024-02-13	1	0.00180

(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
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	16	0	0%	16	2024-02-13	1	0.0220
12_2_3_105	MW-02	Appendix III	Boron	mg/L	16	0	0%	16	2025-02-25	20	170
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	16	2023-02-08	50	67.0
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16	3	19%	13	2023-04-18	5	0.000630
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	16	0	0%	16	2024-02-13	1	0.000440
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	16	11	69%	5	2023-10-24	1	0.000490
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	16	0	0%	16	2023-01-04	5	1.60
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	16	10	62%	6	2023-04-18	5	0.000450
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	16	2023-01-04	5	1.60
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	16	13	81%	3	2023-10-24	1	240
13_2_5_114	MW-03	Part 115	Iron	mg/L	16	0	0%	16	2023-01-04	1	5.90
13_2_5_119	MW-03	Part 115	Nickel	mg/L	16	1	6%	15	2023-01-04	1	0.0150
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	16	0	0%	16	2025-04-21	10	2.30
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	16	2025-02-26	1	0.00280
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	16	0	0%	16	2023-01-04	1	0.460
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	16	2025-04-21	10	2.30
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	16	2	12%	14	2025-04-21	1	0.0110
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	16	5	31%	11	2025-04-21	1	0.00120
14_2_5_114	MW-04	Part 115	Iron	mg/L	16	0	0%	16	2025-04-21	1	0.190
16_1_3_120	MW-06	Appendix III	pH (field)	su	16	0	0%	16	2023-02-06	NA	6.42
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	13	2023-03-14	NA	1.91
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	16	5	31%	11	2024-02-13	1	0.000470
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	16	2023-01-04	4	470
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	16	0	0%	16	2023-04-18	10	0.250
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	16	0	0%	16	2024-07-17	1	0.000740
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	16	0	0%	16	2023-06-27	1	0.0100
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	16	2	12%	14	2023-08-07	1	2.36
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	16	2025-08-14	10	110
18_1_3_120	MW-08	Appendix III	pH (field)	su	16	0	0%	16	2023-01-05	NA	6.21
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	16	10	62%	6	2024-10-16	1	0.00290
18_1_5_119	MW-08	Part 115	Nickel	mg/L	16	0	0%	16	2024-10-16	1	0.0130
19_2_3_120	MW-09	Appendix III	pH (field)	su	16	0	0%	16	2023-05-23	NA	7.52
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	16	0	0%	16	2023-01-04	5	2.40
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	16	13	81%	3	2025-02-25	1	0.000150
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	16	2	12%	14	2025-02-25	1	0.000640
19_2_5_111	MW-09	Part 115	Copper	mg/L	16	11	69%	5	2024-07-17	1	0.00130
19_2_5_119	MW-09	Part 115	Nickel	mg/L	16	0	0%	16	2025-02-25	1	0.100
20_3_3_120	MW-10	Appendix III	pH (field)	su	16	0	0%	16	2023-05-23	NA	8.81
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	16	12	75%	4	2023-04-18	5	0.000340
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	15	2023-05-23	1	0.00180
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	16	0	0%	16	2023-03-14	50	1.60
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	16	1	6%	15	2024-02-13	1	0.000830
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	16	2023-10-24	4	1800

(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
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	16	2023-01-03	1	0.00410
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	16	13	81%	3	2024-04-07	1	0.000440
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	16	0	0%	16	2023-01-03	1	0.00860
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	16	2024-04-07	1	0.00240
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16	3	19%	13	2023-01-03	1	0.0680
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	16	0	0%	16	2023-01-03	1	0.220
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	16	13	81%	3	2024-04-07	1	1100
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16	3	19%	13	2024-02-13	1	0.000710
21_2_5_111	MW-11	Part 115	Copper	mg/L	16	4	25%	12	2023-01-03	1	0.0190
21_2_5_119	MW-11	Part 115	Nickel	mg/L	16	0	0%	16	2023-01-03	1	0.00940
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	16	0	0%	16	2025-08-13	1	0.0110
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	16	0	0%	16	2024-10-16	1	0.0180
22_2_5_111	MW-12	Part 115	Copper	mg/L	16	0	0%	16	2025-02-26	1	0.00340
22_2_5_114	MW-12	Part 115	Iron	mg/L	16	6	38%	10	2025-08-13	1	0.400
22_2_5_129	MW-12	Part 115	Zinc	mg/L	16	0	0%	16	2025-08-13	1	0.0230
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	7	2023-04-18	NA	1.27
28_1_5_111	MW-18	Part 115	Copper	mg/L	16	0	0%	16	2024-10-16	1	0.00170
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	16	5	31%	11	2023-01-03	1	0.000530
29_1_5_119	MW-19	Part 115	Nickel	mg/L	16	1	6%	15	2024-07-18	1	0.0170
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	16	0	0%	16	2023-06-28	1	58.0
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	16	0	0%	16	2022-11-30	25	0.550
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	16	2022-11-30	25	0.550
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	16	10	62%	6	2024-02-13	1	0.000260
40_1_3_105	MW-30	Appendix III	Boron	mg/L	16	0	0%	16	2023-03-13	50	3.50
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	16	0	0%	16	2025-02-25	10	0.570
40_1_3_120	MW-30	Appendix III	pH (field)	su	16	0	0%	16	2023-01-03	NA	6.48
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	16	2024-10-16	25	440
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	16	2	12%	14	2025-04-20	1	0.00300
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	16	0	0%	16	2025-02-25	5	0.0460
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	16	2025-02-25	10	0.570
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	16	3	19%	13	2025-02-25	5	0.0190
40_1_5_114	MW-30	Part 115	Iron	mg/L	16	0	0%	16	2025-04-20	10	17.0
40_1_5_119	MW-30	Part 115	Nickel	mg/L	16	3	19%	13	2025-02-25	5	0.110
40_1_5_129	MW-30	Part 115	Zinc	mg/L	16	10	62%	6	2025-02-25	5	0.100
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	16	2025-08-12	10	170
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	13	2024-10-15	1	0.000360
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	16	13	81%	3	2023-05-22	1	0.000310
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	16	0	0%	16	2025-08-12	1	0.00910
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	16	6	38%	10	2024-02-12	1	0.000740
41_1_5_119	MW-31	Part 115	Nickel	mg/L	16	10	62%	6	2025-08-12	1	0.240
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	16	0	0%	16	2024-10-16	5	1.90
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	16	2024-02-12	1	0.00240
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	16	2024-02-12	1	0.00300

(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
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	16	2024-02-12	1	0.00190
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	16	2024-10-16	5	1.90
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	16	13	81%	3	2024-02-12	1	0.00100
42_1_5_111	MW-32	Part 115	Copper	mg/L	16	9	56%	7	2024-02-12	1	0.0160
42_1_5_119	MW-32	Part 115	Nickel	mg/L	16	0	0%	16	2024-02-12	1	0.0230

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full										Without Non-Detects											
						Sample Size					p-Value				Log ANOVA	Sample Size					p-Value				Log ANOVA		
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Winter	Spring		Summer	Fall	Total	Kruskal-Wallis	ANOVA							
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.025	*	0.009	**	0.034	*	4	5	4	3	16	0.025	*	0.009	**	0.034	*
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.036	*	0.036	*	0.019	*	4	5	4	3	16	0.036	*	0.036	*	0.019	*
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.052		0.044	*	0.065		4	5	4	3	16	0.052		0.044	*	0.065	
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.019	*	0.009	**	0.035	*	4	5	4	3	16	0.019	*	0.009	**	0.035	*
11_2_3_120	MW-01R	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.389		0.329		0.337		4	5	4	3	16	0.389		0.329		0.337	
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.033	*	0.015	*	0.037	*	4	5	4	3	16	0.033	*	0.015	*	0.037	*
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.121		0.139		0.144		4	5	4	3	16	0.121		0.139		0.144	
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19%	4	5	4	3	16	0.944		0.681		0.807		2	4	4	3	13	0.948		0.749		0.847	
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.053		0.310		0.141		4	5	4	3	16	0.053		0.310		0.141	
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.143		0.232		0.155		4	5	4	3	16	0.143		0.232		0.155	
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	12%	4	5	4	3	16	0.269		0.185		0.349		4	4	4	2	14	0.267		0.259		0.367	
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	81%	4	5	4	3	16	0.989		0.863		0.912		1	0	1	1	3	0.368		NA		NA	
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.032	*	0.431		0.190		4	5	4	3	16	0.032	*	0.431		0.190	
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.238		0.574		0.511		4	5	4	3	16	0.238		0.574		0.511	
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.019	*	0.009	**	0.035	*	4	5	4	3	16	0.019	*	0.009	**	0.035	*
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	12%	4	5	4	3	16	0.254		0.476		0.299		3	4	4	3	14	0.126		0.517		0.234	
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.032	*	0.022	*	0.069		4	5	4	3	16	0.032	*	0.022	*	0.069	
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	94%	4	5	4	3	16	0.644		0.679		0.693		0	0	1	0	1	NA		NA		NA	
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	12%	4	5	4	3	16	0.951		0.571		0.727		4	3	4	3	14	0.910		0.597		0.651	
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	62%	4	5	4	3	16	0.641		0.680		0.733		2	1	2	1	6	0.463		0.840		0.859	
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	0%	4	5	4	3	16	0.203		0.519		0.378		4	5	4	3	16	0.203		0.519		0.378	
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	0.537		0.582		0.582		NA	NA	NA	NA	NA	NA		NA		NA	
11_2_5_111	MW-01R	Part 115	Copper	mg/L	38%	4	5	4	3	16	0.072		0.335		0.194		2	1	4	3	10	0.180		0.588		0.413	
11_2_5_114	MW-01R	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.154		0.229		0.244		4	5	4	3	16	0.154		0.229		0.244	
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.184		0.452		0.367		4	5	4	3	16	0.184		0.452		0.367	
11_2_5_123	MW-01R	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.261		0.276		0.276		NA	NA	NA	NA	NA	NA		NA		NA	
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	12%	4	5	4	3	16	0.031	*	0.000	***	0.010	**	3	4	4	3	14	0.045	*	0.000	***	0.011	*
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19%	4	5	4	3	16	0.541		0.721		0.655		4	3	3	3	13	0.794		0.876		0.796	
12_2_3_105	MW-02	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.780		0.966		0.971		4	5	4	3	16	0.780		0.966		0.971	
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.491		0.440		0.436		4	5	4	3	16	0.491		0.440		0.436	
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.647		0.395		0.395		4	5	4	3	16	0.647		0.395		0.395	
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.746		0.994		0.925		4	5	4	3	16	0.746		0.994		0.925	
12_2_3_120	MW-02	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.243		0.342		0.342		4	5	4	3	16	0.243		0.342		0.342	
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	62%	4	5	4	3	16	0.951		0.805		0.970		1	1	2	2	6	0.543		0.492		0.619	
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.199		0.363		0.319		4	5	4	3	16	0.199		0.363		0.319	
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19%	4	5	4	3	16	0.190		0.133		0.133		2	4	4	3	13	0.295		0.408		0.335	
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.933		0.804		0.580		4	5	4	3	16	0.933		0.804		0.580	
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.253		0.330		0.409		4	5	4	3	16	0.253		0.330		0.409	
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	6%	4	5	4	3	16	0.771		0.736		0.800		3	5	4	3	15	0.467		0.545		0.523	

(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	69%	4	5	4	3	16	0.828	0.603	0.882	2	2	0	1	5	0.331	0.008	**	0.087					
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.353	0.565	0.680	4	5	4	3	16	0.353	0.565		0.680					
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.633	0.813	0.704	4	5	4	3	16	0.633	0.813		0.704					
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.746	0.994	0.925	4	5	4	3	16	0.746	0.994		0.925					
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	6%	4	5	4	3	16	0.249	0.326	0.555	3	5	4	3	15	0.102	0.155		0.107					
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.227	0.419	0.423	4	5	4	3	16	0.227	0.419		0.423					
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	88%	4	5	4	3	16	0.620	0.677	0.654	0	1	1	0	2	0.317	NA		NA					
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	0%	4	5	4	3	16	0.125	0.196	0.181	4	5	4	3	16	0.125	0.196		0.181					
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	33%	3	5	4	3	15	0.465	0.329	0.582	2	3	3	2	10	0.515	0.658		0.711					
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	0%	4	5	4	3	16	0.727	0.843	0.771	4	5	4	3	16	0.727	0.843		0.771					
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	94%	4	5	4	3	16	0.750	0.709	0.859	0	0	0	1	1	NA	NA		NA					
12_2_5_111	MW-02	Part 115	Copper	mg/L	0%	4	5	4	3	16	0.847	0.866	0.914	4	5	4	3	16	0.847	0.866		0.914					
12_2_5_114	MW-02	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.034	*	0.017	*	0.012	*	4	5	4	3	16	0.034	*	0.017	*	0.012	*
12_2_5_119	MW-02	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.522	0.626	0.870	4	5	4	3	16	0.522	0.626		0.870					
12_2_5_123	MW-02	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.392	0.426	0.426	NA	NA	NA	NA	NA	NA	NA		NA					
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	6%	4	5	4	3	16	0.600	0.526	0.594	3	5	4	3	15	0.632	0.622		0.614					
12_2_5_129	MW-02	Part 115	Zinc	mg/L	0%	4	5	4	3	16	0.349	0.480	0.297	4	5	4	3	16	0.349	0.480		0.297					
13_2_3_105	MW-03	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.375	0.379	0.365	4	5	4	3	16	0.375	0.379		0.365					
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.759	0.676	0.630	4	5	4	3	16	0.759	0.676		0.630					
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.520	0.381	0.446	4	5	4	3	16	0.520	0.381		0.446					
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.295	0.423	0.415	4	5	4	3	16	0.295	0.423		0.415					
13_2_3_120	MW-03	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.339	0.304	0.307	4	5	4	3	16	0.339	0.304		0.307					
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.168	0.132	0.222	4	5	4	3	16	0.168	0.132		0.222					
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.683	0.788	0.780	4	5	4	3	16	0.683	0.788		0.780					
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	62%	4	5	4	3	16	0.227	0.611	0.475	2	3	0	1	6	0.213	0.592		0.475					
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.272	0.478	0.526	4	5	4	3	16	0.272	0.478		0.526					
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.961	0.986	0.902	4	5	4	3	16	0.961	0.986		0.902					
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	62%	4	5	4	3	16	0.956	0.788	0.866	1	2	2	1	6	0.836	0.678		0.683					
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	94%	4	5	4	3	16	0.836	0.599	0.775	0	0	0	1	1	NA	NA		NA					
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.396	0.524	0.458	4	5	4	3	16	0.396	0.524		0.458					
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.233	0.373	0.293	4	5	4	3	16	0.233	0.373		0.293					
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.295	0.423	0.415	4	5	4	3	16	0.295	0.423		0.415					
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	94%	4	5	4	3	16	0.973	0.795	0.992	0	0	0	1	1	NA	NA		NA					
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.856	0.789	0.824	4	5	4	3	16	0.856	0.789		0.824					
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	81%	4	5	4	3	16	0.305	0.462	0.637	0	1	1	1	3	0.368	NA		NA					
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	75%	4	5	4	3	16	0.207	0.575	0.375	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	7%	4	4	4	3	15	0.509	0.495	0.490	3	4	4	3	14	0.295	0.341		0.292					
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19%	4	5	4	3	16	0.217	0.342	0.398	2	4	4	3	13	0.153	0.258		0.375					
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	94%	4	5	4	3	16	0.865	0.877	0.910	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									ANOVA	Log ANOVA					
						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	44%	4	5	4	3	16	0.782	0.489	0.533	1	2	4	2	9	0.303	0.104	0.098						
13_2_5_114	MW-03	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.044	*	0.205	0.039	*	4	5	4	3	16	0.044	*	0.205	0.039	*		
13_2_5_119	MW-03	Part 115	Nickel	mg/L	6%	4	5	4	3	16	0.863	0.357	0.426	3	5	4	3	15	0.952	0.344	0.611						
13_2_5_123	MW-03	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.261	0.276	0.276	NA	NA	NA	NA	NA	NA	NA	NA	NA					
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	56%	4	5	4	3	16	0.987	0.946	0.986	1	2	2	2	7	0.396	0.553	0.508						
13_2_5_129	MW-03	Part 115	Zinc	mg/L	56%	4	5	4	3	16	0.191	0.437	0.372	0	2	2	3	7	0.754	0.981	0.935						
14_2_3_105	MW-04	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.156	0.064	0.072	4	5	4	3	16	0.156	0.064	0.072						
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.484	0.770	0.817	4	5	4	3	16	0.484	0.770	0.817						
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.821	0.866	0.922	4	5	4	3	16	0.821	0.866	0.922						
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.374	0.356	0.262	4	5	4	3	16	0.374	0.356	0.262						
14_2_3_120	MW-04	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.110	0.088	0.087	4	5	4	3	16	0.110	0.088	0.087						
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.395	0.380	0.422	4	5	4	3	16	0.395	0.380	0.422						
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.151	0.433	0.503	4	5	4	3	16	0.151	0.433	0.503						
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	69%	4	5	4	3	16	0.552	0.492	0.596	1	2	1	1	5	0.284	0.125	0.064						
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.932	0.713	0.886	4	5	4	3	16	0.932	0.713	0.886						
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.207	0.249	0.252	4	5	4	3	16	0.207	0.249	0.252						
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	88%	4	5	4	3	16	0.428	0.462	0.465	0	0	1	1	2	0.317	NA	NA						
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	100%	4	5	4	3	16	0.653	0.544	0.662	NA	NA	NA	NA	NA	NA	NA	NA	NA					
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.688	0.548	0.487	4	5	4	3	16	0.688	0.548	0.487						
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.908	0.702	0.791	4	5	4	3	16	0.908	0.702	0.791						
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.374	0.356	0.262	4	5	4	3	16	0.374	0.356	0.262						
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	94%	4	5	4	3	16	0.891	0.880	0.927	0	1	0	0	1	NA	NA	NA						
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.043	*	0.011	*	0.015	*	4	5	4	3	16	0.043	*	0.011	*	0.015	*
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	88%	4	5	4	3	16	0.620	0.677	0.614	0	1	1	0	2	0.317	NA	NA						
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	12%	4	5	4	3	16	0.450	0.526	0.607	3	4	4	3	14	0.513	0.667	0.848						
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	31%	4	5	4	3	16	0.922	0.956	0.916	2	3	3	3	11	0.585	0.617	0.514						
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	31%	4	5	4	3	16	0.361	0.761	0.809	3	2	4	2	11	0.303	0.283	0.321						
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	0.697	0.739	0.739	NA	NA	NA	NA	NA	NA	NA	NA	NA					
14_2_5_111	MW-04	Part 115	Copper	mg/L	81%	4	5	4	3	16	0.305	0.469	0.394	0	2	0	1	3	0.221	0.627	0.590						
14_2_5_114	MW-04	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.393	0.896	0.833	4	5	4	3	16	0.393	0.896	0.833						
14_2_5_119	MW-04	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.185	0.281	0.406	4	5	4	3	16	0.185	0.281	0.406						
14_2_5_123	MW-04	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.261	0.276	0.276	NA	NA	NA	NA	NA	NA	NA	NA	NA					
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	62%	4	5	4	3	16	0.834	0.746	0.767	1	2	2	1	6	0.290	0.394	0.378						
14_2_5_129	MW-04	Part 115	Zinc	mg/L	62%	4	5	4	3	16	0.069	0.130	0.078	0	2	1	3	6	0.414	0.612	0.550						
16_1_3_105	MW-06	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.022	*	0.008	**	0.012	*	4	5	4	3	16	0.022	*	0.008	**	0.012	*
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.352	0.347	0.374	4	5	4	3	16	0.352	0.347	0.374						
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.508	0.370	0.527	4	5	4	3	16	0.508	0.370	0.527						
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.265	0.211	0.218	4	5	4	3	16	0.265	0.211	0.218						
16_1_3_120	MW-06	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.849	0.580	0.566	4	5	4	3	16	0.849	0.580	0.566						

(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							ANOVA	Log ANOVA	
						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	12%	4	5	4	3	16	0.369	0.389	0.295	4	5	3	2	14	0.647	0.684	0.646	
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.692	0.735	0.699	4	5	4	3	16	0.692	0.735	0.699	
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	88%	4	5	4	3	16	0.743	0.464	0.653	0	1	0	1	2	0.317	NA	NA	
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.067	0.016 *	0.016 *	4	5	4	3	16	0.067	0.016 *	0.016 *	
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.065	0.077	0.087	4	5	4	3	16	0.065	0.077	0.087	
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	94%	4	5	4	3	16	0.228	0.236	0.236	1	0	0	0	1	NA	NA	NA	
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	100%	4	5	4	3	16	0.653	0.544	0.662	NA	NA	NA	NA	NA	NA	NA	NA	
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.589	0.885	0.794	4	5	4	3	16	0.589	0.885	0.794	
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.929	0.761	0.832	4	5	4	3	16	0.929	0.761	0.832	
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.265	0.211	0.218	4	5	4	3	16	0.265	0.211	0.218	
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	62%	4	5	4	3	16	0.443	0.448	0.388	2	0	2	2	6	0.867	0.941	0.906	
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.470	0.436	0.357	4	5	4	3	16	0.470	0.436	0.357	
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	88%	4	5	4	3	16	0.620	0.679	0.674	0	1	1	0	2	0.317	NA	NA	
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	62%	4	5	4	3	16	0.613	0.620	0.539	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	19%	4	5	4	3	16	0.409	0.339	0.325	3	4	3	3	13	0.279	0.267	0.222	
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	31%	4	5	4	3	16	0.427	0.364	0.335	2	3	4	2	11	0.429	0.213	0.221	
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	0.423	0.277	0.278	NA	NA	NA	NA	NA	NA	NA	NA	
16_1_5_111	MW-06	Part 115	Copper	mg/L	75%	4	5	4	3	16	0.329	0.269	0.283	1	0	2	1	4	0.259	0.656	0.622	
16_1_5_114	MW-06	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.422	0.518	0.576	4	5	4	3	16	0.422	0.518	0.576	
16_1_5_119	MW-06	Part 115	Nickel	mg/L	38%	4	5	4	3	16	0.171	0.146	0.141	3	1	3	3	10	0.547	0.516	0.545	
16_1_5_123	MW-06	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.423	0.277	0.279	NA	NA	NA	NA	NA	NA	NA	NA	
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	88%	4	5	4	3	16	0.184	0.260	0.255	0	0	2	0	2	NA	NA	NA	
16_1_5_129	MW-06	Part 115	Zinc	mg/L	12%	4	5	4	3	16	0.362	0.548	0.337	3	4	4	3	14	0.539	0.656	0.482	
17_1_3_105	MW-07	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.276	0.382	0.396	4	5	4	3	16	0.276	0.382	0.396	
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.660	0.846	0.868	4	5	4	3	16	0.660	0.846	0.868	
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.621	0.954	0.926	4	5	4	3	16	0.621	0.954	0.926	
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	25%	4	5	4	3	16	0.842	0.862	0.916	3	4	3	2	12	0.262	0.510	0.416	
17_1_3_120	MW-07	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.698	0.620	0.624	4	5	4	3	16	0.698	0.620	0.624	
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.060	0.026 *	0.024 *	4	5	4	3	16	0.060	0.026 *	0.024 *	
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.390	0.615	0.635	4	5	4	3	16	0.390	0.615	0.635	
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	94%	4	5	4	3	16	0.465	0.501	0.498	0	1	0	0	1	NA	NA	NA	
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.337	0.247	0.315	4	5	4	3	16	0.337	0.247	0.315	
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.488	0.426	0.385	4	5	4	3	16	0.488	0.426	0.385	
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	81%	4	5	4	3	16	0.665	0.657	0.664	1	0	1	1	3	0.368	NA	NA	
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	100%	4	5	4	3	16	0.477	0.519	0.519	NA	NA	NA	NA	NA	NA	NA	NA	
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.416	0.589	0.583	4	5	4	3	16	0.416	0.589	0.583	
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.823	0.661	0.665	4	5	4	3	16	0.823	0.661	0.665	
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	25%	4	5	4	3	16	0.842	0.862	0.916	3	4	3	2	12	0.262	0.510	0.416	
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	100%	4	5	4	3	16	0.477	0.519	0.519	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	5	4	3	16	0.375	0.514	0.471	4	5	4	3	16	0.375	0.514	0.471			
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	94%	4	5	4	3	16	0.644	0.679	0.684	0	0	1	0	1	NA	NA	NA			
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	100%	4	5	4	3	16	0.477	0.519	0.519	NA	NA	NA	NA	NA	NA	NA	NA			
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	12%	4	5	4	3	16	0.781	0.486	0.580	4	4	3	3	14	0.490	0.251	0.278			
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	56%	4	5	4	3	16	0.128	0.131	0.125	2	2	2	1	7	0.167	0.368	0.283			
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	NA	NA	0.236	NA	NA	NA	NA	NA	NA	NA	NA			
17_1_5_111	MW-07	Part 115	Copper	mg/L	75%	4	5	4	3	16	0.952	0.511	0.568	1	1	1	1	4	0.392	NA	NA			
17_1_5_114	MW-07	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.596	0.664	0.599	4	5	4	3	16	0.596	0.664	0.599			
17_1_5_119	MW-07	Part 115	Nickel	mg/L	88%	4	5	4	3	16	0.224	0.391	0.408	0	0	1	1	2	0.317	NA	NA			
17_1_5_123	MW-07	Part 115	Silver	mg/L	100%	4	5	4	3	16	NA	0.236	0.236	NA	NA	NA	NA	NA	NA	NA	NA			
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	75%	4	5	4	3	16	0.465	0.475	0.488	0	1	2	1	4	0.407	0.179	0.198			
17_1_5_129	MW-07	Part 115	Zinc	mg/L	62%	4	5	4	3	16	0.213	0.479	0.170	1	1	1	3	6	0.207	0.317	0.306			
18_1_3_105	MW-08	Appendix III	Boron	mg/L	0%	5	5	4	2	16	0.105	0.220	0.226	5	5	4	2	16	0.105	0.220	0.226			
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	0%	5	5	4	2	16	0.673	0.647	0.674	5	5	4	2	16	0.673	0.647	0.674			
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	0%	5	5	4	2	16	0.665	0.398	0.551	5	5	4	2	16	0.665	0.398	0.551			
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	0%	5	5	4	2	16	0.208	0.082	0.087	5	5	4	2	16	0.208	0.082	0.087			
18_1_3_120	MW-08	Appendix III	pH (field)	su	0%	5	5	4	2	16	0.083	0.349	0.370	5	5	4	2	16	0.083	0.349	0.370			
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	25%	5	5	4	2	16	0.561	0.820	0.430	5	4	1	2	12	0.576	0.851	0.764			
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	0%	5	5	4	2	16	0.477	0.429	0.446	5	5	4	2	16	0.477	0.429	0.446			
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	50%	5	5	4	2	16	0.857	0.642	0.728	4	2	1	1	8	0.505	0.480	0.606			
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	0%	5	5	4	2	16	0.099	0.039	*	0.096	5	5	4	2	16	0.099	0.039	*		
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	0%	5	5	4	2	16	0.428	0.485	0.490	5	5	4	2	16	0.428	0.485	0.490			
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	94%	5	5	4	2	16	0.532	0.577	0.577	1	0	0	0	1	NA	NA	NA			
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	94%	5	5	4	2	16	0.503	0.583	0.410	1	0	0	0	1	NA	NA	NA			
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	0%	5	5	4	2	16	0.419	0.584	0.547	5	5	4	2	16	0.419	0.584	0.547			
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	0%	5	5	4	2	16	0.306	0.484	0.448	5	5	4	2	16	0.306	0.484	0.448			
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	0%	5	5	4	2	16	0.208	0.082	0.087	5	5	4	2	16	0.208	0.082	0.087			
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	62%	5	5	4	2	16	0.069	0.080	0.144	3	2	0	1	6	0.252	0.013	*			
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	0%	5	5	4	2	16	0.670	0.616	0.633	5	5	4	2	16	0.670	0.616	0.633			
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	94%	5	5	4	2	16	0.644	0.679	0.694	0	0	1	0	1	NA	NA	NA			
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	6%	5	5	4	2	16	0.026	*	0.012	*	0.000	***	5	5	3	2	15	0.053	0.036	*
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19%	5	5	4	2	16	0.431	0.868	0.809	3	5	3	2	13	0.567	0.736	0.804			
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	38%	5	5	4	2	16	0.015	*	0.004	**	0.003	**	2	3	3	2	10	0.088	0.000	***
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	94%	5	5	4	2	16	0.532	0.577	0.577	1	0	0	0	1	NA	NA	NA			
18_1_5_111	MW-08	Part 115	Copper	mg/L	31%	5	5	4	2	16	0.867	0.729	0.841	3	4	2	2	11	0.572	0.609	0.650			
18_1_5_114	MW-08	Part 115	Iron	mg/L	0%	5	5	4	2	16	0.014	*	0.003	**	0.001	**	5	5	4	2	16	0.014	*	0.003
18_1_5_119	MW-08	Part 115	Nickel	mg/L	0%	5	5	4	2	16	0.962	0.231	0.770	5	5	4	2	16	0.962	0.231	0.770			
18_1_5_123	MW-08	Part 115	Silver	mg/L	100%	5	5	4	2	16	NA	0.577	0.577	NA	NA	NA	NA	NA	NA	NA	NA			
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	88%	5	5	4	2	16	0.337	0.358	0.352	1	0	1	0	2	0.317	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	19%	5	5	4	2	16	0.560	0.464		0.747	3	5	3	2	13	0.309	0.659		0.783				
19_2_3_105	MW-09	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.051	0.024	*	0.026	*	4	5	4	3	16	0.051	0.024	*	0.026	*		
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.172	0.128		0.110	4	5	4	3	16	0.172	0.128		0.110				
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.743	0.831		0.857	4	5	4	3	16	0.743	0.831		0.857				
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.124	0.153		0.180	4	5	4	3	16	0.124	0.153		0.180				
19_2_3_120	MW-09	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.271	0.192		0.192	4	5	4	3	16	0.271	0.192		0.192				
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.116	0.045	*	0.040	*	4	5	4	3	16	0.116	0.045	*	0.040	*		
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.130	0.119		0.118	4	5	4	3	16	0.130	0.119		0.118				
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	69%	4	5	4	3	16	0.663	0.438		0.512	1	2	1	1	5	0.532	0.891		0.841				
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.202	0.250		0.205	4	5	4	3	16	0.202	0.250		0.205				
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.226	0.387		0.344	4	5	4	3	16	0.226	0.387		0.344				
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	81%	4	5	4	3	16	0.830	0.460		0.485	1	1	1	0	3	0.368	NA		NA				
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	100%	4	5	4	3	16	0.705	0.704		0.795	NA	NA	NA	NA	NA	NA	NA		NA				
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.895	0.933		0.936	4	5	4	3	16	0.895	0.933		0.936				
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.119	0.165		0.096	4	5	4	3	16	0.119	0.165		0.096				
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.124	0.153		0.180	4	5	4	3	16	0.124	0.153		0.180				
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	100%	4	5	4	3	16	0.150	0.283		0.157	NA	NA	NA	NA	NA	NA	NA		NA				
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.132	0.170		0.195	4	5	4	3	16	0.132	0.170		0.195				
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	81%	4	5	4	3	16	0.523	0.494		0.646	0	1	1	1	3	0.368	NA		NA				
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	0%	4	5	4	3	16	0.362	0.594		0.729	4	5	4	3	16	0.362	0.594		0.729				
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	94%	4	5	4	3	16	0.543	0.659		0.502	0	0	0	1	1	NA	NA		NA				
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	12%	4	5	4	3	16	0.891	0.740		0.766	3	4	4	3	14	0.924	0.601		0.694				
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	0.241	0.251		0.251	NA	NA	NA	NA	NA	NA	NA		NA				
19_2_5_111	MW-09	Part 115	Copper	mg/L	69%	4	5	4	3	16	0.597	0.311		0.307	1	1	2	1	5	0.285	0.819		0.736				
19_2_5_114	MW-09	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.012	*	0.002	**	0.004	**	4	5	4	3	16	0.012	*	0.002	**	0.004	**
19_2_5_119	MW-09	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.210	0.422		0.275	4	5	4	3	16	0.210	0.422		0.275				
19_2_5_123	MW-09	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.392	0.426		0.426	NA	NA	NA	NA	NA	NA	NA		NA				
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	94%	4	5	4	3	16	0.392	0.426		0.426	0	0	1	0	1	NA	NA		NA				
19_2_5_129	MW-09	Part 115	Zinc	mg/L	50%	4	5	4	3	16	0.722	0.493		0.632	2	2	2	2	8	0.475	0.618		0.628				
20_3_3_105	MW-10	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.045	*	0.032	*	0.051	4	5	4	3	16	0.045	*	0.032	*	0.051		
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.543	0.521		0.544	4	5	4	3	16	0.543	0.521		0.544				
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.061	0.042	*	0.027	*	4	5	4	3	16	0.061	0.042	*	0.027	*		
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.182	0.211		0.233	4	5	4	3	16	0.182	0.211		0.233				
20_3_3_120	MW-10	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.126	0.112		0.114	4	5	4	3	16	0.126	0.112		0.114				
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.402	0.557		0.275	4	5	4	3	16	0.402	0.557		0.275				
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.780	0.774		0.797	4	5	4	3	16	0.780	0.774		0.797				
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	75%	4	5	4	3	16	0.992	0.543		0.802	0	1	2	1	4	0.223	0.000	***	0.000	***			
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.044	*	0.035	*	0.022	*	4	5	4	3	16	0.044	*	0.035	*	0.022	*
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.122	0.121		0.105	4	5	4	3	16	0.122	0.121		0.105				

(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	44%	4	5	4	3	16	0.378	0.446	0.305	1	3	3	2	9	0.261	0.660	0.499						
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	100%	4	5	4	3	16	0.653	0.544	0.662	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.472	0.191	0.254	4	5	4	3	16	0.472	0.191	0.254						
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	6%	4	5	4	3	16	0.556	0.690	0.626	3	5	4	3	15	0.735	0.831	0.866						
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.182	0.211	0.233	4	5	4	3	16	0.182	0.211	0.233						
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	88%	4	5	4	3	16	0.633	0.504	0.619	0	0	1	1	2	0.317	NA	NA						
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.137	0.242	0.128	4	5	4	3	16	0.137	0.242	0.128						
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	88%	4	5	4	3	16	0.849	0.633	0.809	0	1	1	0	2	0.317	NA	NA						
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	0%	4	5	4	3	16	0.631	0.464	0.395	4	5	4	3	16	0.631	0.464	0.395						
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	75%	4	5	4	3	16	0.424	0.553	0.614	2	0	1	1	4	0.259	0.565	0.502						
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	6%	4	5	4	3	16	0.599	0.889	0.949	4	4	4	3	15	0.652	0.940	0.989						
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	0.765	0.787	0.787	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_5_111	MW-10	Part 115	Copper	mg/L	81%	4	5	4	3	16	0.155	0.604	0.450	0	1	0	2	3	0.221	0.070	0.125						
20_3_5_114	MW-10	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.030	*	0.014	*	0.023	*	4	5	4	3	16	0.030	*	0.014	*	0.023	*
20_3_5_119	MW-10	Part 115	Nickel	mg/L	44%	4	5	4	3	16	0.298	0.764	0.696	1	2	3	3	9	0.490	0.550	0.597						
20_3_5_123	MW-10	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.423	0.277	0.279	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	75%	4	5	4	3	16	0.359	0.662	0.623	0	1	2	1	4	0.407	0.679	0.709						
20_3_5_129	MW-10	Part 115	Zinc	mg/L	44%	4	5	4	3	16	0.068	0.300	0.151	1	2	3	3	9	0.408	0.836	0.654						
21_2_3_105	MW-11	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.016	*	0.014	*	0.004	**	4	5	4	3	16	0.016	*	0.014	*	0.004	**
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.112	0.076	0.089	4	5	4	3	16	0.112	0.076	0.089						
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.020	*	0.004	**	0.003	**	4	5	4	3	16	0.020	*	0.004	**	0.003	**
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.070	0.099	0.101	4	5	4	3	16	0.070	0.099	0.101						
21_2_3_120	MW-11	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.148	0.216	0.216	4	5	4	3	16	0.148	0.216	0.216						
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	38%	4	5	4	3	16	0.134	0.071	0.114	2	4	3	1	10	0.167	0.177	0.106						
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.833	0.557	0.586	4	5	4	3	16	0.833	0.557	0.586						
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	75%	4	5	4	3	16	0.640	0.527	0.605	1	2	0	1	4	0.223	0.000	***	0.000	***				
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.212	0.425	0.258	4	5	4	3	16	0.212	0.425	0.258						
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.037	*	0.046	*	0.027	*	4	5	4	3	16	0.037	*	0.046	*	0.027	*
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	81%	4	5	4	3	16	0.755	0.644	0.737	1	1	0	1	3	0.368	NA	NA						
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	88%	4	5	4	3	16	0.563	0.586	0.658	1	1	0	0	2	0.317	NA	NA						
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.076	0.446	0.298	4	5	4	3	16	0.076	0.446	0.298						
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.387	0.620	0.536	4	5	4	3	16	0.387	0.620	0.536						
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.070	0.099	0.101	4	5	4	3	16	0.070	0.099	0.101						
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19%	4	5	4	3	16	0.946	0.465	0.741	4	2	4	3	13	0.953	0.630	0.887						
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.044	*	0.099	0.023	*	4	5	4	3	16	0.044	*	0.099	0.023	*		
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	81%	4	5	4	3	16	0.849	0.679	0.836	0	2	1	0	3	1.000	0.668	0.760						
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	12%	4	5	4	3	16	0.628	0.941	0.802	4	3	4	3	14	0.996	0.980	0.990						
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	27%	4	4	4	3	15	0.884	0.854	0.843	3	3	2	3	11	0.621	0.640	0.636						
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19%	4	5	4	3	16	0.482	0.346	0.351	3	3	4	3	13	0.456	0.319	0.358						

(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	94%	4	5	4	3	16	0.175	0.240	0.193	0	1	0	0	1	NA	NA	NA																			
21_2_5_111	MW-11	Part 115	Copper	mg/L	25%	4	5	4	3	16	0.255	0.481	0.611	4	2	4	2	12	0.750	0.706	0.923																			
21_2_5_114	MW-11	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.064	0.051	0.073	4	5	4	3	16	0.064	0.051	0.073																			
21_2_5_119	MW-11	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.541	0.472	0.496	4	5	4	3	16	0.541	0.472	0.496																			
21_2_5_123	MW-11	Part 115	Silver	mg/L	88%	4	5	4	3	16	0.119	0.083	0.096	1	1	0	0	2	0.317	NA	NA																			
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	81%	4	5	4	3	16	0.644	0.585	0.597	1	1	1	0	3	0.368	NA	NA																			
21_2_5_129	MW-11	Part 115	Zinc	mg/L	25%	4	5	4	3	16	0.594	0.427	0.535	3	3	3	3	12	0.440	0.428	0.576																			
22_2_3_105	MW-12	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.014	*	0.000	***	0.000	***	4	5	4	3	16	0.014	*	0.000	***	0.000	***													
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.065	0.047	*	0.055	4	5	4	3	16	0.065	0.047	*	0.055	4	5	4	3	16	0.065	0.047	*	0.055								
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.068	0.065	0.055	4	5	4	3	16	0.068	0.065	0.055	4	5	4	3	16	0.068	0.065	0.055											
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.853	0.806	0.872	4	5	4	3	16	0.853	0.806	0.872	4	5	4	3	16	0.853	0.806	0.872											
22_2_3_120	MW-12	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.079	0.196	0.203	4	5	4	3	16	0.079	0.196	0.203	4	5	4	3	16	0.079	0.196	0.203											
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.612	0.522	0.609	4	5	4	3	16	0.612	0.522	0.609	4	5	4	3	16	0.612	0.522	0.609											
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.058	0.042	*	0.113	4	5	4	3	16	0.058	0.042	*	0.113	4	5	4	3	16	0.058	0.042	*	0.113								
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	0%	4	5	4	3	16	0.165	0.171	0.158	4	5	4	3	16	0.165	0.171	0.158	4	5	4	3	16	0.165	0.171	0.158											
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.009	**	0.001	***	0.000	***	4	5	4	3	16	0.009	**	0.001	***	0.000	***													
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.031	*	0.037	*	0.017	*	4	5	4	3	16	0.031	*	0.037	*	0.017	*													
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	100%	4	5	4	3	16	NA	0.236	0.236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	0%	4	5	4	3	16	0.055	0.098	0.019	*	4	5	4	3	16	0.055	0.098	0.019	*	4	5	4	3	16	0.055	0.098	0.019	*								
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	38%	4	5	4	3	16	0.027	*	0.031	*	0.009	**	4	4	0	2	10	0.072	0.108	0.036	*	4	4	0	2	10	0.072	0.108	0.036	*						
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	31%	4	5	4	3	16	0.011	*	0.012	*	0.000	***	2	2	4	3	11	0.063	0.206	0.035	*	2	2	4	3	11	0.063	0.206	0.035	*						
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.853	0.806	0.872	4	5	4	3	16	0.853	0.806	0.872	4	5	4	3	16	0.853	0.806	0.872	4	5	4	3	16	0.853	0.806	0.872			
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	38%	4	5	4	3	16	0.473	0.428	0.351	1	3	4	2	10	0.519	0.613	0.628	1	3	4	2	10	0.519	0.613	0.628	1	3	4	2	10	0.519	0.613	0.628			
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.022	*	0.003	**	0.004	**	4	5	4	3	16	0.022	*	0.003	**	0.004	**													
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	75%	4	5	4	3	16	0.849	0.796	0.706	0	2	1	1	4	0.861	0.809	0.742	0	2	1	1	4	0.861	0.809	0.742	0	2	1	1	4	0.861	0.809	0.742			
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	0%	4	5	4	3	16	0.023	*	0.019	*	0.008	**	4	5	4	3	16	0.023	*	0.019	*	0.008	**													
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	62%	4	5	4	3	16	0.695	0.590	0.659	0	4	1	1	6	0.931	0.908	0.949	0	4	1	1	6	0.931	0.908	0.949	0	4	1	1	6	0.931	0.908	0.949			
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	0%	4	5	4	3	16	0.011	*	0.012	*	0.000	***	4	5	4	3	16	0.011	*	0.012	*	0.000	***													
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	NA	NA	0.236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
22_2_5_111	MW-12	Part 115	Copper	mg/L	0%	4	5	4	3	16	0.573	0.752	0.532	4	5	4	3	16	0.573	0.752	0.532	4	5	4	3	16	0.573	0.752	0.532	4	5	4	3	16	0.573	0.752	0.532			
22_2_5_114	MW-12	Part 115	Iron	mg/L	38%	4	5	4	3	16	0.012	*	0.170	0.014	*	2	2	4	2	10	0.113	0.661	0.314	2	2	4	2	10	0.113	0.661	0.314	2	2	4	2	10	0.113	0.661	0.314	
22_2_5_119	MW-12	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.039	*	0.050	*	0.032	*	4	5	4	3	16	0.039	*	0.050	*	0.032	*													
22_2_5_123	MW-12	Part 115	Silver	mg/L	100%	4	5	4	3	16	NA	0.236	0.236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	38%	4	5	4	3	16	0.110	0.320	0.199	1	4	4	1	10	0.179	0.035	*	0.062	1	4	4	1	10	0.179	0.035	*	0.062	1	4	4	1	10	0.179	0.035	*	0.062
22_2_5_129	MW-12	Part 115	Zinc	mg/L	0%	4	5	4	3	16	0.105	0.163	0.155	4	5	4	3	16	0.105	0.163	0.155	4	5	4	3	16	0.105	0.163	0.155	4	5	4	3	16	0.105	0.163	0.155			
28_1_3_105	MW-18	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.791	0.913	0.883	4	5	4	3	16	0.791	0.913	0.883	4	5	4	3	16	0.791	0.913	0.883	4	5	4	3	16	0.791	0.913	0.883			
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.012	*	0.004	**	0.003	**	4	5	4	3	16	0.012	*	0.004	**	0.003	**													
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.018	*	0.002	**	0.001	***	4	5	4	3	16	0.018	*	0.002	**	0.001	***													
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.023	*	0.003	**	0.005	**	4	5	4	3	16	0.023	*	0.003	**	0.005	**													

(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	5	4	3	16	0.240	0.190	0.193	4	5	4	3	16	0.240	0.190	0.193						
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.253	0.234	0.351	4	5	4	3	16	0.253	0.234	0.351						
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.048	*	0.024	*	0.023	*	4	5	4	3	16	0.048	*	0.024	*	0.023	*
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19%	4	5	4	3	16	0.009	**	0.103	0.023	*	3	4	3	3	13	0.025	*	0.109	0.050	*		
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.014	*	0.005	**	0.009	**	4	5	4	3	16	0.014	*	0.005	**	0.009	**
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.024	*	0.003	**	0.003	**	4	5	4	3	16	0.024	*	0.003	**	0.003	**
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	88%	4	5	4	3	16	0.644	0.624	0.626	1	1	0	0	2	0.317	NA	NA						
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	44%	4	5	4	3	16	0.338	0.565	0.442	2	4	2	1	9	0.959	0.995	0.984						
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	88%	4	5	4	3	16	0.630	0.515	0.497	0	2	0	0	2	NA	NA	NA						
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.315	0.335	0.320	4	5	4	3	16	0.315	0.335	0.320						
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.023	*	0.003	**	0.005	**	4	5	4	3	16	0.023	*	0.003	**	0.005	**
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	62%	4	5	4	3	16	0.600	0.337	0.533	0	0	4	2	6	0.060	0.255	0.213						
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.024	*	0.002	**	0.004	**	4	5	4	3	16	0.024	*	0.002	**	0.004	**
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	94%	4	5	4	3	16	0.644	0.679	0.696	0	0	1	0	1	NA	NA	NA						
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	0%	4	5	4	3	16	0.032	*	0.002	**	0.004	**	4	5	4	3	16	0.032	*	0.002	**	0.004	**
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	56%	4	5	4	3	16	0.530	0.671	0.649	1	2	2	2	7	0.956	0.860	0.935						
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	0%	4	5	4	3	16	0.076	0.106	0.040	*	4	5	4	3	16	0.076	0.106	0.040	*				
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	0.270	0.286	0.286	NA	NA	NA	NA	NA	NA	NA	NA						
28_1_5_111	MW-18	Part 115	Copper	mg/L	0%	4	5	4	3	16	0.020	*	0.118	0.038	*	4	5	4	3	16	0.020	*	0.118	0.038	*		
28_1_5_114	MW-18	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.023	*	0.007	**	0.006	**	4	5	4	3	16	0.023	*	0.007	**	0.006	**
28_1_5_119	MW-18	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.176	0.279	0.231	4	5	4	3	16	0.176	0.279	0.231						
28_1_5_123	MW-18	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.270	0.286	0.286	NA	NA	NA	NA	NA	NA	NA	NA						
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	100%	4	5	4	3	16	0.392	0.426	0.426	NA	NA	NA	NA	NA	NA	NA	NA						
28_1_5_129	MW-18	Part 115	Zinc	mg/L	0%	4	5	4	3	16	0.274	0.227	0.101	4	5	4	3	16	0.274	0.227	0.101						
29_1_3_105	MW-19	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.010	**	0.001	***	0.000	***	4	5	4	3	16	0.010	**	0.001	***	0.000	***
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.118	0.230	0.258	4	5	4	3	16	0.118	0.230	0.258						
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.178	0.177	0.218	4	5	4	3	16	0.178	0.177	0.218						
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.138	0.170	0.171	4	5	4	3	16	0.138	0.170	0.171						
29_1_3_120	MW-19	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.327	0.280	0.274	4	5	4	3	16	0.327	0.280	0.274						
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.233	0.407	0.431	4	5	4	3	16	0.233	0.407	0.431						
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.291	0.319	0.318	4	5	4	3	16	0.291	0.319	0.318						
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	75%	4	5	4	3	16	0.370	0.232	0.293	1	2	1	0	4	0.407	0.780	0.641						
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.104	0.058	0.148	4	5	4	3	16	0.104	0.058	0.148						
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.095	0.058	0.052	4	5	4	3	16	0.095	0.058	0.052						
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	19%	4	5	4	3	16	0.627	0.649	0.740	3	5	4	1	13	0.422	0.383	0.380						
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	100%	4	5	4	3	16	0.653	0.544	0.662	NA	NA	NA	NA	NA	NA	NA	NA						
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	31%	4	5	4	3	16	0.727	0.313	0.483	2	3	4	2	11	0.996	0.723	0.892						
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	6%	4	5	4	3	16	0.090	0.069	0.063	4	5	3	3	15	0.135	0.122	0.093						
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.138	0.170	0.171	4	5	4	3	16	0.138	0.170	0.171						

(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	5	4	3	16	0.825	0.645	0.866	NA	NA	NA	NA	NA	NA	NA	NA						
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.839	0.896	0.855	4	5	4	3	16	0.839	0.896	0.855						
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	94%	4	5	4	3	16	0.644	0.679	0.685	0	0	1	0	1	NA	NA	NA						
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	0%	4	5	4	3	16	0.714	0.980	0.906	4	5	4	3	16	0.714	0.980	0.906						
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	44%	4	5	4	3	16	0.823	0.905	0.864	3	4	2	0	9	0.801	0.814	0.833						
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	69%	4	5	4	3	16	0.183	0.380	0.279	2	1	1	1	5	0.317	0.134	0.167						
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	0.919	0.935	0.935	NA	NA	NA	NA	NA	NA	NA	NA						
29_1_5_111	MW-19	Part 115	Copper	mg/L	81%	4	5	4	3	16	0.501	0.507	0.497	0	1	2	0	3	0.221	0.173	0.136						
29_1_5_114	MW-19	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.066	0.056	0.045	*	4	5	4	3	16	0.066	0.056	0.045	*				
29_1_5_119	MW-19	Part 115	Nickel	mg/L	6%	4	5	4	3	16	0.853	0.498	0.734	3	5	4	3	15	0.914	0.525	0.726						
29_1_5_123	MW-19	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.261	0.276	0.276	NA	NA	NA	NA	NA	NA	NA	NA						
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	88%	4	5	4	3	16	0.357	0.424	0.418	0	1	1	0	2	0.317	NA	NA						
29_1_5_129	MW-19	Part 115	Zinc	mg/L	62%	4	5	4	3	16	0.602	0.387	0.518	1	2	1	2	6	0.183	0.014	*	0.027	*				
30_1_3_105	MW-20	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.009	**	0.000	***	0.000	***	4	5	4	3	16	0.009	**	0.000	***	0.000	***
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.526	0.458	0.420	4	5	4	3	16	0.526	0.458	0.420						
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.470	0.562	0.690	4	5	4	3	16	0.470	0.562	0.690						
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.928	0.865	0.994	4	5	4	3	16	0.928	0.865	0.994						
30_1_3_120	MW-20	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.176	0.125	0.127	4	5	4	3	16	0.176	0.125	0.127						
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.020	*	0.012	*	0.004	**	4	5	4	3	16	0.020	*	0.012	*	0.004	**
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.284	0.255	0.330	4	5	4	3	16	0.284	0.255	0.330						
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	38%	4	5	4	3	16	0.605	0.555	0.446	3	2	3	2	10	0.698	0.665	0.589						
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.008	**	0.000	***	0.000	***	4	5	4	3	16	0.008	**	0.000	***	0.000	***
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.027	*	0.008	**	0.009	**	4	5	4	3	16	0.027	*	0.008	**	0.009	**
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	94%	4	5	4	3	16	0.392	0.426	0.426	1	0	0	0	1	NA	NA	NA						
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	100%	4	5	4	3	16	0.477	0.519	0.519	NA	NA	NA	NA	NA	NA	NA	NA						
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	50%	4	5	4	3	16	0.586	0.422	0.446	2	3	1	2	8	0.418	0.458	0.448						
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.789	0.826	0.881	4	5	4	3	16	0.789	0.826	0.881						
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.928	0.865	0.994	4	5	4	3	16	0.928	0.865	0.994						
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	0%	4	5	4	3	16	0.165	0.190	0.177	4	5	4	3	16	0.165	0.190	0.177						
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.048	*	0.026	*	0.040	*	4	5	4	3	16	0.048	*	0.026	*	0.040	*
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	88%	4	5	4	3	16	0.644	0.679	0.680	0	1	1	0	2	0.317	NA	NA						
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	0%	4	5	4	3	16	0.118	0.116	0.092	4	5	4	3	16	0.118	0.116	0.092						
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	47%	3	5	4	3	15	0.747	0.601	0.668	1	3	2	2	8	0.881	0.741	0.803						
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	62%	4	5	4	3	16	0.168	0.144	0.143	1	2	2	1	6	0.199	0.004	**	0.011	*				
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	94%	4	5	4	3	16	0.392	0.426	0.426	1	0	0	0	1	NA	NA	NA						
30_1_5_111	MW-20	Part 115	Copper	mg/L	12%	4	5	4	3	16	0.109	0.185	0.146	3	4	4	3	14	0.232	0.356	0.325						
30_1_5_114	MW-20	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.207	0.330	0.402	4	5	4	3	16	0.207	0.330	0.402						
30_1_5_119	MW-20	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.621	0.614	0.555	4	5	4	3	16	0.621	0.614	0.555						
30_1_5_123	MW-20	Part 115	Silver	mg/L	100%	4	5	4	3	16	NA	0.236	0.236	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	5	4	3	16	0.392	0.426	0.426	NA	NA	NA	NA	NA	NA	NA	NA						
30_1_5_129	MW-20	Part 115	Zinc	mg/L	0%	4	5	4	3	16	0.316	0.199	0.213	4	5	4	3	16	0.316	0.199	0.213						
40_1_3_105	MW-30	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.367	0.756	0.720	4	5	4	3	16	0.367	0.756	0.720						
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.629	0.517	0.529	4	5	4	3	16	0.629	0.517	0.529						
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.691	0.950	0.939	4	5	4	3	16	0.691	0.950	0.939						
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.746	0.780	0.665	4	5	4	3	16	0.746	0.780	0.665						
40_1_3_120	MW-30	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.501	0.328	0.326	4	5	4	3	16	0.501	0.328	0.326						
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.051	0.002	**	0.003	**	4	5	4	3	16	0.051	0.002	**	0.003	**		
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.204	0.605	0.524	4	5	4	3	16	0.204	0.605	0.524						
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	88%	4	5	4	3	16	0.481	0.386	0.467	1	1	0	0	2	0.317	NA	NA						
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	12%	4	5	4	3	16	0.559	0.960	0.799	3	4	4	3	14	0.821	0.888	0.962						
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.038	*	0.009	**	0.011	*	4	5	4	3	16	0.038	*	0.009	**	0.011	*
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	81%	4	5	4	3	16	0.007	**	0.018	*	0.007	**	2	0	1	0	3	1.000	0.760	0.797			
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	100%	4	5	4	3	16	0.410	0.209	0.375	NA	NA	NA	NA	NA	NA	NA	NA						
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.108	0.099	0.121	4	5	4	3	16	0.108	0.099	0.121						
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.084	0.354	0.125	4	5	4	3	16	0.084	0.354	0.125						
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.746	0.780	0.665	4	5	4	3	16	0.746	0.780	0.665						
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	94%	4	5	4	3	16	0.917	0.953	0.919	0	0	0	1	1	NA	NA	NA						
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.857	0.735	0.821	4	5	4	3	16	0.857	0.735	0.821						
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	94%	4	5	4	3	16	0.810	0.836	0.720	0	1	0	0	1	NA	NA	NA						
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19%	4	5	4	3	16	0.085	0.235	0.091	3	4	4	2	13	0.253	0.273	0.227						
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	50%	4	5	4	3	16	0.271	0.215	0.218	3	1	4	0	8	0.213	0.168	0.162						
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	44%	4	5	4	3	16	0.035	*	0.033	*	0.005	**	1	2	4	2	9	0.309	0.012	*	0.049	*	
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	0.310	0.334	0.334	NA	NA	NA	NA	NA	NA	NA	NA						
40_1_5_111	MW-30	Part 115	Copper	mg/L	69%	4	5	4	3	16	0.025	*	0.039	*	0.025	*	2	2	0	1	5	0.301	0.159	0.248			
40_1_5_114	MW-30	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.026	*	0.114	0.017	*	4	5	4	3	16	0.026	*	0.114	0.017	*		
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19%	4	5	4	3	16	0.033	*	0.386	0.064	3	5	4	1	13	0.209	0.357	0.193					
40_1_5_123	MW-30	Part 115	Silver	mg/L	100%	4	5	4	3	16	0.090	0.070	0.070	NA	NA	NA	NA	NA	NA	NA	NA						
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	94%	4	5	4	3	16	0.105	0.070	0.066	0	0	1	0	1	NA	NA	NA						
40_1_5_129	MW-30	Part 115	Zinc	mg/L	62%	4	5	4	3	16	0.183	0.406	0.329	1	2	1	2	6	0.277	0.001	***	0.037	*				
41_1_3_105	MW-31	Appendix III	Boron	mg/L	0%	5	5	4	2	16	0.015	*	0.003	**	0.003	**	5	5	4	2	16	0.015	*	0.003	**	0.003	**
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	0%	5	5	4	2	16	0.106	0.065	0.070	5	5	4	2	16	0.106	0.065	0.070						
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	0%	5	5	4	2	16	0.033	*	0.159	0.105	5	5	4	2	16	0.033	*	0.159	0.105				
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	0%	5	5	4	2	16	0.565	0.625	0.642	5	5	4	2	16	0.565	0.625	0.642						
41_1_3_120	MW-31	Appendix III	pH (field)	su	0%	5	5	4	2	16	0.670	0.743	0.740	5	5	4	2	16	0.670	0.743	0.740						
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	0%	5	5	4	2	16	0.028	*	0.006	**	0.004	**	5	5	4	2	16	0.028	*	0.006	**	0.004	**
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	0%	5	5	4	2	16	0.158	0.348	0.304	5	5	4	2	16	0.158	0.348	0.304						
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	44%	5	5	4	2	16	0.255	0.463	0.410	3	2	3	1	9	0.582	0.714	0.636						
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	0%	5	5	4	2	16	0.110	0.085	0.095	5	5	4	2	16	0.110	0.085	0.095						

(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	5	4	2	16	0.033	*	0.034	*	0.021	*	5	5	4	2	16	0.033	*	0.034	*	0.021	*
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	88%	5	5	4	2	16	0.242		0.052		0.053		1	0	0	1	2	0.317		NA		NA	
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	94%	5	5	4	2	16	0.503		0.298		0.265		1	0	0	0	1	NA		NA		NA	
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	0%	5	5	4	2	16	0.333		0.134		0.193		5	5	4	2	16	0.333		0.134		0.193	
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19%	5	5	4	2	16	0.913		0.438		0.638		4	3	4	2	13	0.842		0.539		0.650	
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	0%	5	5	4	2	16	0.565		0.625		0.642		5	5	4	2	16	0.565		0.625		0.642	
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	81%	5	5	4	2	16	0.553		0.592		0.585		0	1	2	0	3	0.157		0.000	***	0.000	***
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	0%	5	5	4	2	16	0.254		0.192		0.227		5	5	4	2	16	0.254		0.192		0.227	
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	88%	5	5	4	2	16	0.644		0.680		0.692		0	1	1	0	2	0.317		NA		NA	
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	0%	5	5	4	2	16	0.166		0.382		0.224		5	5	4	2	16	0.166		0.382		0.224	
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	38%	5	5	4	2	16	0.939		0.822		0.858		3	3	4	0	10	0.943		0.923		0.963	
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	38%	5	5	4	2	16	0.384		0.388		0.322		1	3	4	2	10	0.155		0.000	***	0.002	**
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	94%	5	5	4	2	16	0.532		0.577		0.577		1	0	0	0	1	NA		NA		NA	
41_1_5_111	MW-31	Part 115	Copper	mg/L	62%	5	5	4	2	16	0.649		0.625		0.608		1	2	2	1	6	0.543		0.741		0.684	
41_1_5_114	MW-31	Part 115	Iron	mg/L	0%	5	5	4	2	16	0.359		0.324		0.460		5	5	4	2	16	0.359		0.324		0.460	
41_1_5_119	MW-31	Part 115	Nickel	mg/L	62%	5	5	4	2	16	0.649		0.452		0.583		2	1	2	1	6	0.543		0.767		0.828	
41_1_5_123	MW-31	Part 115	Silver	mg/L	100%	5	5	4	2	16	NA		0.577		0.577		NA	NA	NA	NA	NA	NA		NA		NA	
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	75%	5	5	4	2	16	0.496		0.184		0.212		0	1	2	1	4	0.259		0.466		0.531	
41_1_5_129	MW-31	Part 115	Zinc	mg/L	56%	5	5	4	2	16	0.814		0.579		0.652		2	3	1	1	7	0.461		0.414		0.428	
42_1_3_105	MW-32	Appendix III	Boron	mg/L	0%	4	5	4	3	16	0.009	**	0.001	***	0.000	***	4	5	4	3	16	0.009	**	0.001	***	0.000	***
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	0%	4	5	4	3	16	0.027	*	0.015	*	0.010	**	4	5	4	3	16	0.027	*	0.015	*	0.010	**
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	0%	4	5	4	3	16	0.538		0.645		0.642		4	5	4	3	16	0.538		0.645		0.642	
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	0%	4	5	4	3	16	0.174		0.039	*	0.050		4	5	4	3	16	0.174		0.039	*	0.050	
42_1_3_120	MW-32	Appendix III	pH (field)	su	0%	4	5	4	3	16	0.508		0.526		0.529		4	5	4	3	16	0.508		0.526		0.529	
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	0%	4	5	4	3	16	0.010	*	0.001	***	0.005	**	4	5	4	3	16	0.010	*	0.001	***	0.005	**
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	0%	4	5	4	3	16	0.021	*	0.003	**	0.002	**	4	5	4	3	16	0.021	*	0.003	**	0.002	**
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	75%	4	5	4	3	16	0.752		0.606		0.956		1	2	0	1	4	0.259		0.091		0.249	
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	0%	4	5	4	3	16	0.091		0.551		0.608		4	5	4	3	16	0.091		0.551		0.608	
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	0%	4	5	4	3	16	0.244		0.327		0.487		4	5	4	3	16	0.244		0.327		0.487	
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	94%	4	5	4	3	16	0.392		0.426		0.426		1	0	0	0	1	NA		NA		NA	
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	94%	4	5	4	3	16	0.717		0.801		0.813		1	0	0	0	1	NA		NA		NA	
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	0%	4	5	4	3	16	0.122		0.280		0.141		4	5	4	3	16	0.122		0.280		0.141	
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	0%	4	5	4	3	16	0.106		0.539		0.414		4	5	4	3	16	0.106		0.539		0.414	
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	0%	4	5	4	3	16	0.174		0.039	*	0.050		4	5	4	3	16	0.174		0.039	*	0.050	
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	69%	4	5	4	3	16	0.715		0.659		0.681		1	1	2	1	5	0.362		0.717		0.703	
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	0%	4	5	4	3	16	0.006	**	0.000	***	0.000	***	4	5	4	3	16	0.006	**	0.000	***	0.000	***
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	88%	4	5	4	3	16	0.849		0.633		0.850		0	1	1	0	2	0.317		NA		NA	
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	0%	4	5	4	3	16	0.282		0.455		0.453		4	5	4	3	16	0.282		0.455		0.453	
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	56%	4	5	4	3	16	0.081		0.121		0.099		1	2	2	2	7	0.185		0.030	*	0.016	*

(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	81%	4	5	4	3	16	0.141	0.278	0.157	1	1	0	1	3	0.368	NA	NA
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	100%	4	5	4	3	16	NA	NA	0.236	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	56%	4	5	4	3	16	0.214	0.434	0.496	2	1	2	2	7	0.375	0.612	0.675
42_1_5_114	MW-32	Part 115	Iron	mg/L	0%	4	5	4	3	16	0.183	0.163	0.136	4	5	4	3	16	0.183	0.163	0.136
42_1_5_119	MW-32	Part 115	Nickel	mg/L	0%	4	5	4	3	16	0.580	0.412	0.400	4	5	4	3	16	0.580	0.412	0.400
42_1_5_123	MW-32	Part 115	Silver	mg/L	100%	4	5	4	3	16	NA	0.236	0.236	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	100%	4	5	4	3	16	0.392	0.426	0.426	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_129	MW-32	Part 115	Zinc	mg/L	0%	4	5	4	3	16	0.403	0.347	0.288	4	5	4	3	16	0.403	0.347	0.288

*** 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	16	0	0%	Parametric	Lognormal MLE	0.000263	0.379	↔
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000257	0.288	↔
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000118	0.727	↔
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000217	0.420	↔
11_2_3_120	MW-01R	Appendix III	pH (field)	su	16	0	0%	Nonparametric	MK	0.00000611	0.856	↔
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000682	0.455	↔
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000271	0.496	↔
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	Nonparametric	MK	0	0.889	↔
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000575	0.008	↑
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	16	2	12%	Parametric	Lognormal MLE	-0.000679	0.171	↔
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	16	0	0%	Nonparametric	MK	0.000000502	0.365	↔
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	Nonparametric	MK	-0.000000198	0.413	↔
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000217	0.420	↔
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	16	2	12%	Parametric	Lognormal MLE	-0.000585	0.254	↔
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000200	0.515	↔
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	Parametric	Lognormal MLE	-0.000842	0.187	↔
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000619	0.833	↔
11_2_5_111	MW-01R	Part 115	Copper	mg/L	16	6	38%	Nonparametric	MK	0.0000000474	0.124	↔
11_2_5_114	MW-01R	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00249	0.000	↓
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	16	0	0%	Nonparametric	MK	0.0000000914	0.928	↔
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	16	2	12%	Parametric	Lognormal MLE	0.00134	0.005	↑
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	16	3	19%	Nonparametric	MK	0	0.509	↔
12_2_3_105	MW-02	Appendix III	Boron	mg/L	16	0	0%	Nonparametric	MK	0.0418	0.000	↑
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000120	0.057	↔
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Nonparametric	MK	0.0135	0.048	↔
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	16	0	0%	Nonparametric	MK	0.00338	0.001	↑
12_2_3_120	MW-02	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	-0.0000126	0.258	↔
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000230	0.001	↑
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16	3	19%	Parametric	Lognormal MLE	-0.0000705	0.849	↔
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000461	0.418	↔
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000244	0.107	↔
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	16	1	6%	Parametric	Lognormal MLE	-0.000575	0.202	↔
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000107	0.911	↔
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000269	0.691	↔
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Nonparametric	MK	0.00338	0.001	↑
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	16	1	6%	Parametric	Lognormal MLE	0.000225	0.779	↔
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000323	0.036	↔
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	16	0	0%	Nonparametric	MK	-0.00000129	0.339	↔
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	15	5	33%	Parametric	Lognormal MLE	-0.000673	0.140	↔
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000548	0.043	↔
12_2_5_111	MW-02	Part 115	Copper	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000361	0.503	↔
12_2_5_114	MW-02	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000863	0.479	↔
12_2_5_119	MW-02	Part 115	Nickel	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000266	0.704	↔

(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_128	MW-02	Part 115	Vanadium	mg/L	16	1	6%	Parametric	Lognormal MLE	0.000574	0.278	↔
12_2_5_129	MW-02	Part 115	Zinc	mg/L	16	0	0%	Nonparametric	MK	-0.00000482	0.892	↔
13_2_3_105	MW-03	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000259	0.681	↔
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000128	0.078	↔
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000842	0.000	↓
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	16	0	0%	Nonparametric	MK	0.0000816	0.122	↔
13_2_3_120	MW-03	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	0.00000533	0.596	↔
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00113	0.080	↔
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Nonparametric	MK	-0.608	0.007	↓
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000145	0.539	↔
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000280	0.907	↔
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000278	0.137	↔
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000193	0.540	↔
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Nonparametric	MK	0.0000816	0.122	↔
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000468	0.000	↓
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	15	1	7%	Parametric	Lognormal MLE	-0.000732	0.003	↓
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	16	3	19%	Parametric	Lognormal MLE	0.000503	0.100	↔
13_2_5_114	MW-03	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00240	0.001	↓
13_2_5_119	MW-03	Part 115	Nickel	mg/L	16	1	6%	Nonparametric	MK	-0.00000558	0.259	↔
14_2_3_105	MW-04	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000300	0.642	↔
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000803	0.404	↔
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00156	0.000	↓
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000370	0.021	↔
14_2_3_120	MW-04	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	-0.0000187	0.090	↔
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Nonparametric	MK	0.222	0.052	↔
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000103	0.334	↔
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000489	0.099	↔
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	16	0	0%	Nonparametric	MK	-0.0000369	0.335	↔
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000469	0.139	↔
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00110	0.001	↓
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000370	0.021	↔
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000206	0.225	↔
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	16	2	12%	Parametric	Lognormal MLE	0.00163	0.004	↑
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	16	5	31%	Parametric	Lognormal MLE	-0.000911	0.002	↓
14_2_5_114	MW-04	Part 115	Iron	mg/L	16	0	0%	Nonparametric	MK	-0.00194	0.124	↔
14_2_5_119	MW-04	Part 115	Nickel	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000128	0.810	↔
16_1_3_105	MW-06	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000898	0.527	↔
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000162	0.090	↔
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00115	0.009	↓
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000135	0.243	↔
16_1_3_120	MW-06	Appendix III	pH (field)	su	16	0	0%	Nonparametric	MK	0.000162	0.087	↔
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	16	2	12%	Parametric	Lognormal MLE	-0.000435	0.685	↔
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Nonparametric	MK	0	0.092	↔

(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_4_102	MW-06	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000768	0.671	↔
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000555	0.558	↔
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000624	0.001	↓
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000554	0.000	↓
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000135	0.243	↔
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000357	0.025	↔
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	Parametric	Lognormal MLE	-0.0000649	0.829	↔
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	16	5	31%	Nonparametric	MK	0	0.771	↔
16_1_5_114	MW-06	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000887	0.004	↓
16_1_5_119	MW-06	Part 115	Nickel	mg/L	16	6	38%	Parametric	Lognormal MLE	-0.000337	0.176	↔
16_1_5_129	MW-06	Part 115	Zinc	mg/L	16	2	12%	Nonparametric	MK	0	0.819	↔
17_1_3_105	MW-07	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000168	0.012	↔
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000100	0.103	↔
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Nonparametric	MK	0.00167	0.116	↔
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	16	4	25%	Parametric	Lognormal MLE	-0.000175	0.662	↔
17_1_3_120	MW-07	Appendix III	pH (field)	su	16	0	0%	Nonparametric	MK	0	0.928	↔
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000206	0.397	↔
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000255	0.001	↑
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000845	0.552	↔
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000239	0.001	↑
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000111	0.542	↔
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000629	0.524	↔
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	16	4	25%	Parametric	Lognormal MLE	-0.000175	0.662	↔
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000629	0.759	↔
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	16	2	12%	Parametric	Lognormal MLE	-0.000278	0.311	↔
17_1_5_114	MW-07	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000313	0.000	↑
18_1_3_105	MW-08	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000767	0.781	↔
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000960	0.216	↔
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Nonparametric	MK	0.0193	0.024	↔
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000129	0.612	↔
18_1_3_120	MW-08	Appendix III	pH (field)	su	16	0	0%	Nonparametric	MK	0.0000349	0.893	↔
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	16	4	25%	Parametric	Lognormal MLE	0.00266	0.085	↔
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000187	0.054	↔
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000596	0.152	↔
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000230	0.078	↔
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000712	0.000	↓
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000348	0.904	↔
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000129	0.612	↔
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000466	0.005	↓
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	16	1	6%	Parametric	Lognormal MLE	-0.000649	0.340	↔
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	Parametric	Lognormal MLE	-0.000479	0.109	↔
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	16	6	38%	Parametric	Lognormal MLE	0.0000989	0.787	↔
18_1_5_111	MW-08	Part 115	Copper	mg/L	16	5	31%	Parametric	Lognormal MLE	0.000999	0.026	↔

(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_5_114	MW-08	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000514	0.008	↓
18_1_5_119	MW-08	Part 115	Nickel	mg/L	16	0	0%	Nonparametric	MK	0.00000322	0.033	↔
18_1_5_129	MW-08	Part 115	Zinc	mg/L	16	3	19%	Nonparametric	MK	0.000000507	0.527	↔
19_2_3_105	MW-09	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000861	0.235	↔
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000472	0.001	↑
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.00150	0.000	↑
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000296	0.700	↔
19_2_3_120	MW-09	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	-0.0000299	0.004	↓
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.00141	0.002	↑
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000597	0.000	↑
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000916	0.661	↔
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00163	0.000	↓
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000170	0.297	↔
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000583	0.079	↔
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000296	0.700	↔
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000177	0.797	↔
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000477	0.851	↔
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	16	2	12%	Parametric	Lognormal MLE	0.000765	0.001	↑
19_2_5_114	MW-09	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000107	0.950	↔
19_2_5_119	MW-09	Part 115	Nickel	mg/L	16	0	0%	Nonparametric	MK	0.00000420	0.042	↔
20_3_3_105	MW-10	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000593	0.156	↔
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000287	0.274	↔
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.00133	0.000	↑
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000277	0.915	↔
20_3_3_120	MW-10	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	-0.0000376	0.298	↔
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000264	0.958	↔
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Nonparametric	MK	0.467	0.132	↔
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	0.00119	0.004	↑
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000169	0.550	↔
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	16	7	44%	Parametric	Lognormal MLE	0.0000686	0.906	↔
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000656	0.874	↔
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	Parametric	Lognormal MLE	-0.000645	0.255	↔
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000277	0.915	↔
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000104	0.959	↔
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00120	0.004	↓
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	16	1	6%	Parametric	Lognormal MLE	-0.000155	0.561	↔
20_3_5_114	MW-10	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000230	0.394	↔
20_3_5_119	MW-10	Part 115	Nickel	mg/L	16	7	44%	Nonparametric	MK	0	0.777	↔
20_3_5_129	MW-10	Part 115	Zinc	mg/L	16	7	44%	Parametric	Lognormal MLE	-0.000123	0.933	↔
21_2_3_105	MW-11	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000197	0.677	↔
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000398	0.861	↔
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000170	0.427	↔
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000357	0.418	↔

(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_120	MW-11	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	-0.0000265	0.003	↓
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	16	6	38%	Parametric	Lognormal MLE	-0.00564	0.008	↓
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000771	0.635	↔
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000186	0.569	↔
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000000131	1.000	↔
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	16	0	0%	Nonparametric	MK	0.000000199	0.588	↔
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000557	0.228	↔
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000357	0.418	↔
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16	3	19%	Parametric	Lognormal MLE	-0.000133	0.928	↔
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000259	0.726	↔
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	16	2	12%	Parametric	Lognormal MLE	0.000216	0.677	↔
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	15	4	27%	Parametric	Lognormal MLE	-0.000765	0.013	↔
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16	3	19%	Nonparametric	MK	-0.0000000575	0.275	↔
21_2_5_111	MW-11	Part 115	Copper	mg/L	16	4	25%	Nonparametric	MK	0	0.748	↔
21_2_5_114	MW-11	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000459	0.072	↔
21_2_5_119	MW-11	Part 115	Nickel	mg/L	16	0	0%	Nonparametric	MK	0.000000190	0.584	↔
21_2_5_129	MW-11	Part 115	Zinc	mg/L	16	4	25%	Parametric	Lognormal MLE	0.000473	0.763	↔
22_2_3_105	MW-12	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000327	0.116	↔
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000192	0.386	↔
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000130	0.476	↔
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000244	0.293	↔
22_2_3_120	MW-12	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	-0.0000162	0.623	↔
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00104	0.000	↓
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000172	0.952	↔
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000370	0.304	↔
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000233	0.415	↔
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.00118	0.000	↑
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.00133	0.007	↑
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	16	6	38%	Parametric	Lognormal MLE	-0.0000803	0.915	↔
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	16	5	31%	Parametric	Lognormal MLE	0.00144	0.105	↔
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000244	0.293	↔
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	16	6	38%	Parametric	Lognormal MLE	0.00127	0.007	↑
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000676	0.837	↔
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000176	0.477	↔
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000415	0.616	↔
22_2_5_111	MW-12	Part 115	Copper	mg/L	16	0	0%	Parametric	Lognormal MLE	0.00105	0.000	↑
22_2_5_114	MW-12	Part 115	Iron	mg/L	16	6	38%	Parametric	Lognormal MLE	0.00190	0.012	↔
22_2_5_119	MW-12	Part 115	Nickel	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000330	0.251	↔
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	16	6	38%	Parametric	Lognormal MLE	0.000851	0.049	↔
22_2_5_129	MW-12	Part 115	Zinc	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000614	0.094	↔
28_1_3_105	MW-18	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000862	0.000	↑
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000172	0.238	↔
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000120	0.437	↔

(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	16	0	0%	Parametric	Lognormal MLE	0.0000464	0.737	↔
28_1_3_120	MW-18	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	0.0000239	0.000	↑
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000838	0.670	↔
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000189	0.071	↔
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	16	3	19%	Parametric	Lognormal MLE	-0.000155	0.624	↔
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000472	0.011	↔
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000700	0.738	↔
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	16	7	44%	Parametric	Lognormal MLE	-0.00165	0.003	↓
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00112	0.000	↓
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000464	0.737	↔
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000281	0.883	↔
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000330	0.076	↔
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000440	0.949	↔
28_1_5_111	MW-18	Part 115	Copper	mg/L	16	0	0%	Nonparametric	MK	0.000000132	0.219	↔
28_1_5_114	MW-18	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000540	0.756	↔
28_1_5_119	MW-18	Part 115	Nickel	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000758	0.000	↓
28_1_5_129	MW-18	Part 115	Zinc	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000980	0.001	↓
29_1_3_105	MW-19	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000113	0.471	↔
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000195	0.013	↔
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000800	0.000	↓
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000244	0.014	↔
29_1_3_120	MW-19	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	-0.0000183	0.294	↔
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000167	0.262	↔
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000263	0.000	↓
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000368	0.176	↔
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000183	0.056	↔
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	16	3	19%	Parametric	Lognormal MLE	0.000606	0.001	↑
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	16	5	31%	Parametric	Lognormal MLE	-0.000237	0.401	↔
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	16	1	6%	Parametric	Lognormal MLE	-0.000645	0.277	↔
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000244	0.014	↔
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000242	0.002	↓
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000330	0.279	↔
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	16	7	44%	Parametric	Lognormal MLE	-0.000674	0.032	↔
29_1_5_114	MW-19	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000117	0.441	↔
29_1_5_119	MW-19	Part 115	Nickel	mg/L	16	1	6%	Parametric	Lognormal MLE	0.000894	0.066	↔
30_1_3_105	MW-20	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000173	0.244	↔
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00000609	0.973	↔
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000918	0.000	↓
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	16	0	0%	Nonparametric	MK	0.0000236	0.651	↔
30_1_3_120	MW-20	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	0.0000103	0.342	↔
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000679	0.117	↔
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000223	0.010	↓
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	16	6	38%	Parametric	Lognormal MLE	0.000114	0.704	↔

(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_102	MW-20	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000684	0.675	↔
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000129	0.554	↔
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000661	0.000	↓
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Nonparametric	MK	0.0000236	0.651	↔
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000241	0.205	↔
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000433	0.041	↔
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000649	0.597	↔
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	15	7	47%	Parametric	Lognormal MLE	-0.000297	0.445	↔
30_1_5_111	MW-20	Part 115	Copper	mg/L	16	2	12%	Parametric	Lognormal MLE	0.0000929	0.797	↔
30_1_5_114	MW-20	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000237	0.010	↔
30_1_5_119	MW-20	Part 115	Nickel	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000457	0.000	↓
30_1_5_129	MW-20	Part 115	Zinc	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000393	0.310	↔
40_1_3_105	MW-30	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000220	0.120	↔
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	16	0	0%	Nonparametric	MK	0.0816	0.342	↔
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Nonparametric	MK	0.109	0.524	↔
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	16	0	0%	Nonparametric	MK	0	0.741	↔
40_1_3_120	MW-30	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	-0.0000105	0.621	↔
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000664	0.692	↔
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Nonparametric	MK	0.962	0.100	↔
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	16	2	12%	Parametric	Lognormal MLE	0.00215	0.000	↑
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000203	0.930	↔
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000512	0.087	↔
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	16	0	0%	Nonparametric	MK	-0.000000201	0.556	↔
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Nonparametric	MK	0	0.741	↔
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000172	0.379	↔
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	16	7	44%	Parametric	Lognormal MLE	0.000590	0.213	↔
40_1_5_114	MW-30	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.00101	0.063	↔
41_1_3_105	MW-31	Appendix III	Boron	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000265	0.008	↑
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000393	0.676	↔
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Nonparametric	MK	0	0.746	↔
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000158	0.000	↓
41_1_3_120	MW-31	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	0.00000317	0.764	↔
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000987	0.005	↓
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000139	0.838	↔
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	16	7	44%	Parametric	Lognormal MLE	0.00233	0.001	↑
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000182	0.337	↔
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000166	0.461	↔
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000180	0.318	↔
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	Parametric	Lognormal MLE	-0.000463	0.186	↔
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000158	0.000	↓
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000207	0.109	↔
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	16	0	0%	Nonparametric	MK	-0.000000518	0.232	↔
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	16	6	38%	Parametric	Lognormal MLE	-0.000425	0.123	↔

(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
41_1_5_114	MW-31	Part 115	Iron	mg/L	16	0	0%	Nonparametric	MK	-0.00151	0.006	↓
42_1_3_105	MW-32	Appendix III	Boron	mg/L	16	0	0%	Nonparametric	MK	0.000496	0.275	↔
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000227	0.020	↔
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000390	0.615	↔
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000252	0.761	↔
42_1_3_120	MW-32	Appendix III	pH (field)	su	16	0	0%	Parametric	Lognormal MLE	0.00000268	0.714	↔
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.00209	0.007	↓
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000192	0.030	↔
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	Nonparametric	MK	0.000000109	1.000	↔
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.000895	0.084	↔
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	Nonparametric	MK	-0.000000157	0.058	↔
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000117	0.977	↔
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.0000252	0.761	↔
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	16	0	0%	Parametric	Lognormal MLE	0.0000729	0.695	↔
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000461	0.014	↔
42_1_5_114	MW-32	Part 115	Iron	mg/L	16	0	0%	Parametric	Lognormal MLE	-0.000271	0.038	↔
42_1_5_119	MW-32	Part 115	Nickel	mg/L	16	0	0%	Nonparametric	MK	-0.000000414	0.104	↔
42_1_5_129	MW-32	Part 115	Zinc	mg/L	16	0	0%	Nonparametric	MK	0.00000234	0.299	↔

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_107	MW-01R	Appendix III	Calcium	mg/L	16	0	0%	0.0736	0.715	↔	-0.174	0.396	↔	2024-02-21	0.109	↔
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.121	0.662	↔	-0.0588	0.417	↔	2023-08-07	0.072	↔
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	16	0	0%	-0.00654	0.585	↔	0.0113	0.137	↔	2024-02-12	0.209	↔
11_2_3_120	MW-01R	Appendix III	pH (field)	su	16	0	0%	0.00515	0.360	↔	0.00000540	0.990	↔	2023-04-07	0.227	↔
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.469	0.412	↔	-0.103	0.633	↔	2023-10-01	0.116	↔
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	16	3	19%	0.00000280	0.228	↔	-0.000000594	0.051	↔	2023-04-18	0.348	↔
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	0.00000219	0.266	↔	-0.00000186	0.344	↔	2024-02-13	0.163	↔
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	16	0	0%	0.000499	0.298	↔	0.0000672	0.707	↔	2023-10-23	0.363	↔
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	16	2	12%	-0.000000264	0.031	↔	0.00000114	0.120	↔	2025-01-13	0.423	↔
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	16	13	81%	0.00000102	0.204	↔	-0.000000238	0.110	↔	2023-05-23	0.285	↔
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.0000196	0.238	↔	-0.0000161	0.119	↔	2024-02-12	0.286	↔
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000666	0.400	↔	-0.00000207	0.159	↔	2023-06-27	0.202	↔
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00654	0.585	↔	0.0113	0.137	↔	2024-02-12	0.209	↔
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	16	2	12%	0.00000573	0.490	↔	-0.00000221	0.155	↔	2023-06-27	0.191	↔
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	16	0	0%	-0.000453	0.785	↔	0.00157	0.574	↔	2024-04-10	0.073	↔
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	16	15	94%	-0.0000000000658	1.000	↔	-0.795	0.002	↓	2024-12-27	0.830	↔
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	0.00000354	0.447	↔	-0.00000461	0.118	↔	2024-02-12	0.226	↔
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	0.00491	0.622	↔	-0.0000570	0.797	↔	2023-01-30	0.112	↔

(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_122	MW-01R	Appendix IV	Selenium	mg/L	16	0	0%	0.00000114	0.306	↔	-0.000000962	0.165	↔	2024-02-12	0.232	↔
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	16	16	100%	0.000000392	0.488	↔	-0.000000320	0.356	↔	2024-01-05	0.107	↔
11_2_5_111	MW-01R	Part 115	Copper	mg/L	16	6	38%	0.00000255	0.147	↔	-0.000000480	0.283	↔	2023-06-28	0.247	↔
11_2_5_114	MW-01R	Part 115	Iron	mg/L	16	0	0%	-0.00288	0.637	↔	-0.000606	0.056	↔	2023-03-09	0.437	↔
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	16	0	0%	0.0000179	0.293	↔	-0.0000156	0.139	↔	2024-02-12	0.248	↔
11_2_5_123	MW-01R	Part 115	Silver	mg/L	16	16	100%	0.000000641	0.580	↔	-0.000000158	0.110	↔	2023-04-17	0.216	↔
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	16	2	12%	0.0000123	0.050	↔	-0.000000249	0.868	↔	2023-06-28	0.453	↔
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	16	3	19%	-0.0000164	0.596	↔	0.0000451	0.030	↔	2024-01-27	0.439	↔
12_2_3_105	MW-02	Appendix III	Boron	mg/L	16	0	0%	0.0414	0.372	↔	0.0880	0.073	↔	2024-03-22	0.613	↔
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	16	0	0%	0.00550	0.874	↔	-0.0604	0.306	↔	2024-04-10	0.256	↔
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.366	0.632	↔	0.0407	0.039	↔	2023-02-07	0.322	↔
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	16	0	0%	-0.0254	0.703	↔	0.00619	0.002	↑	2023-02-07	0.586	↔
12_2_3_120	MW-02	Appendix III	pH (field)	su	16	0	0%	0.00301	0.134	↔	-0.000185	0.067	↔	2023-02-11	0.375	↔
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	16	10	62%	0.00399	0.136	↔	-0.00141	0.740	↔	2024-04-10	0.244	↔
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.646	0.008	↑	-1.61	0.496	↔	2025-02-25	0.494	↔
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16	3	19%	0.00000164	0.335	↔	-0.000000249	0.086	↔	2023-04-17	0.295	↔
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	16	0	0%	-0.00000860	0.300	↔	0.00000228	0.646	↔	2024-02-12	0.250	↔
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	16	0	0%	-0.000179	0.203	↔	0.000425	0.619	↔	2025-01-10	0.169	↔
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	16	1	6%	-0.000000314	0.229	↔	0.0000000709	0.866	↔	2024-04-10	0.185	↔
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	16	11	69%	0.00000113	0.333	↔	-0.000000220	0.140	↔	2023-05-22	0.243	↔
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.0000350	0.606	↔	0.0000468	0.266	↔	2024-02-12	0.122	↔
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	16	0	0%	-0.00000322	0.710	↔	0.00000678	0.212	↔	2024-02-12	0.160	↔
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.0254	0.703	↔	0.00619	0.002	↑	2023-02-07	0.586	↔
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	16	0	0%	0.000142	0.822	↔	0.00128	0.235	↔	2024-07-13	0.291	↔
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	16	14	88%	0.000000000000297	1.000	↔	-0.785	0.002	↓	2024-12-28	0.835	↔
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.00000935	0.291	↔	0.0000121	0.182	↔	2024-02-13	0.233	↔
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	15	5	33%	-0.00413	0.080	↔	0.000559	0.685	↔	2023-12-24	0.480	↔
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	16	0	0%	0.00000103	0.030	↔	-0.00000431	0.383	↔	2025-03-28	0.383	↔
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	16	15	94%	0.00000281	0.708	↔	0.0000000563	0.750	↔	2023-02-07	0.121	↔
12_2_5_114	MW-02	Part 115	Iron	mg/L	16	0	0%	0.0322	0.694	↔	-0.00377	0.355	↔	2023-03-13	0.091	↔
12_2_5_119	MW-02	Part 115	Nickel	mg/L	16	0	0%	-0.0000317	0.448	↔	0.0000482	0.074	↔	2024-02-12	0.282	↔
12_2_5_129	MW-02	Part 115	Zinc	mg/L	16	0	0%	-0.0000430	0.503	↔	0.0000146	0.383	↔	2023-07-23	0.098	↔
13_2_3_105	MW-03	Appendix III	Boron	mg/L	16	0	0%	0.000733	0.638	↔	-0.000200	0.736	↔	2023-10-23	0.047	↔
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	16	0	0%	0.368	0.603	↔	-0.0708	0.055	↔	2023-03-13	0.286	↔
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.808	0.027	↔	-0.0752	0.014	↔	2023-04-17	0.832	↔
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	16	0	0%	-0.00327	0.158	↔	0.000244	0.384	↔	2023-04-28	0.285	↔
13_2_3_120	MW-03	Appendix III	pH (field)	su	16	0	0%	0.000182	0.485	↔	-0.0000927	0.720	↔	2024-02-14	0.063	↔
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	3.72	0.032	↔	-0.668	0.000	↓	2023-04-08	0.746	↔
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2.46	0.230	↔	-0.803	0.000	↓	2023-04-07	0.707	↔
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	16	10	62%	0.00000211	0.137	↔	-0.000000380	0.040	↔	2023-04-26	0.397	↔
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	16	0	0%	0.000334	0.609	↔	-0.0000713	0.548	↔	2023-05-23	0.052	↔
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	16	10	62%	0.000000882	0.730	↔	-0.0000000530	0.385	↔	2023-02-06	0.093	↔

(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_106	MW-03	Appendix IV	Cadmium	mg/L	16	15	94%	0.000000975	0.332	↔	-0.000000168	0.186	↔	2023-05-22	0.227	↔
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.00000436	0.297	↔	-0.000000338	0.989	↔	2023-10-24	0.198	↔
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000131	0.360	↔	-0.000000724	0.192	↔	2023-09-17	0.194	↔
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00327	0.158	↔	0.000244	0.384	↔	2023-04-28	0.285	↔
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	16	15	94%	-0.000000497	0.366	↔	-0.00000100	0.529	↔	2024-10-14	0.300	↔
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	16	0	0%	-0.0000386	0.042	↔	0.00000370	0.831	↔	2024-03-26	0.544	↔
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	16	13	81%	0.00774	0.861	↔	-0.803	0.013	↔	2024-12-17	0.752	↔
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	16	12	75%	0.0000124	0.728	↔	-0.00000161	0.074	↔	2023-02-06	0.248	↔
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	15	1	7%	-0.0162	0.177	↔	-0.000628	0.053	↔	2023-01-10	0.578	↔
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	16	3	19%	0.00000209	0.819	↔	-0.000000852	0.693	↔	2023-02-06	0.033	↔
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	16	15	94%	0.00000423	0.081	↔	-0.000000339	0.008	↓	2023-02-24	0.562	↔
13_2_5_111	MW-03	Part 115	Copper	mg/L	16	7	44%	0.000000509	0.251	↔	-0.00000192	0.486	↔	2024-10-15	0.189	↔
13_2_5_114	MW-03	Part 115	Iron	mg/L	16	0	0%	-0.0220	0.002	↓	0.000105	0.919	↔	2023-06-07	0.784	↔
13_2_5_119	MW-03	Part 115	Nickel	mg/L	16	1	6%	-0.0000407	0.182	↔	-0.000000132	0.971	↔	2023-04-23	0.307	↔
13_2_5_123	MW-03	Part 115	Silver	mg/L	16	16	100%	0.000000630	0.586	↔	-0.000000157	0.112	↔	2023-04-17	0.213	↔
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	16	9	56%	-0.00000188	0.724	↔	0.000000984	0.317	↔	2023-05-23	0.114	↔
14_2_3_105	MW-04	Appendix III	Boron	mg/L	16	0	0%	0.000960	0.069	↔	-0.00241	0.114	↔	2024-09-16	0.367	↔
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	16	0	0%	0.607	0.483	↔	-0.0566	0.188	↔	2023-03-13	0.207	↔
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	16	0	0%	0.00124	0.384	↔	0.000214	0.690	↔	2023-10-23	0.301	↔
14_2_3_120	MW-04	Appendix III	pH (field)	su	16	0	0%	0.000699	0.482	↔	-0.000248	0.062	↔	2023-05-22	0.287	↔
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	3.21	0.142	↔	-0.0480	0.778	↔	2023-04-18	0.473	↔
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	16	11	69%	0.00000192	0.256	↔	-0.000000227	0.283	↔	2023-05-04	0.220	↔
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	-0.00000275	0.557	↔	0.00000111	0.075	↔	2023-05-22	0.266	↔
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	16	0	0%	-0.000920	0.277	↔	-0.0000238	0.818	↔	2023-04-19	0.236	↔
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	16	14	88%	0.0000000109	0.053	↔	-0.0000000162	0.298	↔	2024-07-18	0.325	↔
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000934	0.357	↔	-0.000000161	0.211	↔	2023-05-22	0.207	↔
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.000000303	0.865	↔	-0.00000468	0.684	↔	2024-10-15	0.132	↔
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	16	0	0%	-0.000000741	0.128	↔	-0.000000139	0.765	↔	2024-02-22	0.434	↔
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.00124	0.384	↔	0.000214	0.690	↔	2023-10-23	0.301	↔
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	16	15	94%	0.00000578	0.653	↔	-0.000000355	0.252	↔	2023-02-06	0.151	↔
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	16	0	0%	0.00000185	0.927	↔	-0.0000368	0.537	↔	2024-07-26	0.120	↔
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	16	14	88%	-0.000000000205	1.000	↔	-0.821	0.002	↓	2025-01-01	0.839	↔
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	16	5	31%	-0.00114	0.002	↓	0.00316	0.120	↔	2025-02-05	0.648	↔
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	16	5	31%	-0.000000848	0.636	↔	0.000000442	0.189	↔	2023-05-23	0.187	↔
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	16	16	100%	0.00000318	0.622	↔	-0.0000000432	0.775	↔	2023-02-06	0.131	↔
14_2_5_111	MW-04	Part 115	Copper	mg/L	16	13	81%	0.0000000988	0.756	↔	0.000000588	0.532	↔	2024-07-18	0.200	↔
14_2_5_119	MW-04	Part 115	Nickel	mg/L	16	0	0%	0.0000885	0.444	↔	-0.00000689	0.226	↔	2023-03-13	0.216	↔
14_2_5_123	MW-04	Part 115	Silver	mg/L	16	16	100%	0.000000624	0.590	↔	-0.000000157	0.112	↔	2023-04-18	0.213	↔
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	16	10	62%	0.000000770	0.001	↑	-0.000000625	0.599	↔	2024-10-15	0.657	↔
14_2_5_129	MW-04	Part 115	Zinc	mg/L	16	10	62%	-0.00000585	0.445	↔	0.00000118	0.685	↔	2023-08-07	0.070	↔
16_1_3_105	MW-06	Appendix III	Boron	mg/L	16	0	0%	-0.00520	0.123	↔	0.00475	0.379	↔	2024-04-07	0.230	↔
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	16	0	0%	0.626	0.305	↔	-0.0738	0.020	↔	2023-03-13	0.436	↔

(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_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.233	0.001	↓	0.0666	0.211	↔	2024-02-19	0.768	↔
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	16	0	0%	-0.00294	0.442	↔	0.000338	0.075	↔	2023-03-13	0.292	↔
16_1_3_120	MW-06	Appendix III	pH (field)	su	16	0	0%	-0.00406	0.659	↔	0.000440	0.048	↔	2023-02-05	0.299	↔
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	16	2	12%	-0.0387	0.187	↔	0.0206	0.241	↔	2023-12-01	0.233	↔
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.375	0.055	↔	0.110	0.324	↔	2023-12-10	0.433	↔
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	16	14	88%	0.00000156	0.270	↔	-0.000000232	0.192	↔	2023-04-18	0.216	↔
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	16	0	0%	0.000000372	0.153	↔	-0.000000924	0.219	↔	2024-07-18	0.298	↔
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	16	0	0%	-0.00179	0.405	↔	0.000231	0.191	↔	2023-04-17	0.215	↔
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	16	15	94%	-0.0000000883	0.099	↔	0.00000000223	0.586	↔	2023-04-17	0.523	↔
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000934	0.362	↔	-0.000000162	0.210	↔	2023-05-22	0.207	↔
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000257	0.591	↔	-0.000000336	0.007	↓	2023-01-26	0.475	↔
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00294	0.442	↔	0.000338	0.075	↔	2023-03-13	0.292	↔
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	16	10	62%	-0.000000793	0.135	↔	0.000000301	0.839	↔	2024-08-07	0.262	↔
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	16	0	0%	-0.000185	0.008	↓	0.0000863	0.392	↔	2024-04-07	0.534	↔
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	16	14	88%	-0.0000000000777	1.000	↔	-0.790	0.002	↓	2024-12-27	0.829	↔
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	16	10	62%	-0.00000174	0.486	↔	0.000000128	0.932	↔	2024-01-08	0.130	↔
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	0.00251	0.742	↔	-0.000259	0.472	↔	2023-03-12	0.060	↔
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	16	5	31%	0.000000241	0.302	↔	-0.000000203	0.159	↔	2024-02-12	0.236	↔
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	16	16	100%	0.000000950	0.594	↔	-0.000000239	0.112	↔	2023-04-17	0.213	↔
16_1_5_111	MW-06	Part 115	Copper	mg/L	16	12	75%	0.000000161	0.049	↔	-0.000000120	0.586	↔	2024-07-18	0.343	↔
16_1_5_114	MW-06	Part 115	Iron	mg/L	16	0	0%	0.0199	0.109	↔	-0.0365	0.008	↓	2024-02-13	0.610	↔
16_1_5_119	MW-06	Part 115	Nickel	mg/L	16	6	38%	-0.00000104	0.071	↔	0.000000319	0.335	↔	2024-01-02	0.438	↔
16_1_5_123	MW-06	Part 115	Silver	mg/L	16	16	100%	0.00000190	0.593	↔	-0.000000146	0.083	↔	2023-02-05	0.265	↔
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	16	14	88%	-0.00000000314	0.710	↔	0.000000652	0.000	↑	2025-04-14	0.887	↔
17_1_3_105	MW-07	Appendix III	Boron	mg/L	16	0	0%	-0.00000525	0.998	↔	-0.00399	0.246	↔	2024-04-08	0.341	↔
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	16	0	0%	0.00000538	1.000	↔	0.0186	0.304	↔	2023-08-04	0.161	↔
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0102	0.001	↓	0.00545	0.000	↑	2023-07-10	0.911	↔
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	16	4	25%	-0.0000685	0.816	↔	0.0000312	0.557	↔	2023-06-26	0.035	↔
17_1_3_120	MW-07	Appendix III	pH (field)	su	16	0	0%	-0.00140	0.611	↔	0.000119	0.360	↔	2023-03-12	0.114	↔
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.0884	0.379	↔	0.0136	0.102	↔	2023-04-17	0.268	↔
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.416	0.349	↔	0.112	0.171	↔	2023-06-26	0.481	↔
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	16	15	94%	0.000000279	0.000	↑	-0.000000000000211	1.000	↔	2023-07-09	0.906	↔
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	16	0	0%	0.0000000726	0.313	↔	-0.000000172	0.159	↔	2024-06-04	0.252	↔
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	16	0	0%	-0.000202	0.619	↔	0.000103	0.006	↑	2023-04-03	0.521	↔
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	16	13	81%	0.0000000127	0.511	↔	-0.00000000768	0.299	↔	2023-08-07	0.150	↔
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000221	0.001	↑	0.000000000000250	1.000	↔	2023-07-30	0.846	↔
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.000000296	0.103	↔	-0.000000453	0.374	↔	2024-07-17	0.248	↔
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000486	0.298	↔	-0.0000000192	0.850	↔	2023-01-17	0.261	↔
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	16	4	25%	-0.0000685	0.816	↔	0.0000312	0.557	↔	2023-06-26	0.035	↔
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	16	16	100%	-0.000000618	0.001	↓	-0.000000000000313	1.000	↔	2023-07-30	0.846	↔
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	16	0	0%	-0.00000426	0.311	↔	0.00000282	0.497	↔	2024-02-13	0.125	↔
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	16	15	94%	-0.0000000000153	1.000	↔	-0.803	0.002	↓	2024-12-29	0.832	↔

(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			
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	16	16	100%	-0.00000190	0.001	↓	-0.000000000000105	1.000	↔	2023-07-30	0.846	↔
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	16	2	12%	-0.000569	0.249	↔	0.00239	0.668	↔	2025-03-13	0.125	↔
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	16	9	56%	-0.000000586	0.029	↔	0.00000000790	0.899	↔	2023-06-27	0.522	↔
17_1_5_111	MW-07	Part 115	Copper	mg/L	16	12	75%	-0.000000000000309	1.000	↔	0.000000132	0.301	↔	2023-05-09	0.135	↔
17_1_5_114	MW-07	Part 115	Iron	mg/L	16	0	0%	0.00268	0.476	↔	0.00822	0.198	↔	2024-04-08	0.513	↔
17_1_5_119	MW-07	Part 115	Nickel	mg/L	16	14	88%	0.0000000274	0.119	↔	-0.00000428	0.000	↓	2025-04-15	0.988	↔
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	16	12	75%	0.000000000000860	1.000	↔	0.000000219	0.087	↔	2023-06-30	0.389	↔
18_1_3_105	MW-08	Appendix III	Boron	mg/L	16	0	0%	0.0763	0.222	↔	-0.00273	0.061	↔	2023-02-06	0.510	↔
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	16	0	0%	-0.0647	0.009	↓	0.0767	0.046	↔	2024-06-11	0.561	↔
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	16	0	0%	0.0102	0.030	↔	-0.000241	0.233	↔	2023-02-09	0.509	↔
18_1_3_120	MW-08	Appendix III	pH (field)	su	16	0	0%	0.00560	0.136	↔	-0.000144	0.611	↔	2023-03-14	0.297	↔
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	16	4	25%	-0.0639	0.148	↔	0.0921	0.003	↑	2023-11-24	0.668	↔
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.172	0.486	↔	0.315	0.049	↔	2023-12-28	0.385	↔
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	16	8	50%	0.00000123	0.293	↔	-0.0000000633	0.245	↔	2023-02-07	0.196	↔
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	16	0	0%	0.000473	0.328	↔	0.00000100	0.924	↔	2023-02-06	0.425	↔
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.00000743	0.299	↔	-0.000000719	0.001	↓	2023-01-26	0.660	↔
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	16	0	0%	-0.000000347	0.380	↔	0.0000000915	0.172	↔	2024-07-14	0.208	↔
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.0102	0.030	↔	-0.000241	0.233	↔	2023-02-09	0.509	↔
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	16	10	62%	0.00000140	0.234	↔	-0.00000367	0.282	↔	2024-10-15	0.192	↔
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	16	0	0%	0.00134	0.036	↔	-0.0000685	0.000	↓	2023-01-18	0.755	↔
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	16	15	94%	-0.000000000241	1.000	↔	-0.788	0.002	↓	2024-12-27	0.827	↔
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	16	1	6%	-0.00000818	0.199	↔	0.0000000918	0.409	↔	2023-06-02	0.228	↔
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	-0.000902	0.099	↔	0.00207	0.525	↔	2025-01-29	0.283	↔
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	16	6	38%	0.00000000621	0.934	↔	-0.000000629	0.467	↔	2025-02-26	0.156	↔
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	16	15	94%	0.000000000000114	1.000	↔	0.0000000266	0.370	↔	2024-01-07	0.147	↔
18_1_5_111	MW-08	Part 115	Copper	mg/L	16	5	31%	0.000000454	0.036	↔	-0.00000203	0.118	↔	2025-02-25	0.442	↔
18_1_5_114	MW-08	Part 115	Iron	mg/L	16	0	0%	-0.113	0.040	↔	-0.00249	0.533	↔	2023-04-03	0.660	↔
18_1_5_119	MW-08	Part 115	Nickel	mg/L	16	0	0%	0.00000913	0.044	↔	-0.00000769	0.529	↔	2024-10-15	0.437	↔
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	16	14	88%	0.000000170	0.034	↔	-0.00000284	0.004	↓	2025-03-12	0.725	↔
18_1_5_129	MW-08	Part 115	Zinc	mg/L	16	3	19%	-0.0000932	0.610	↔	0.0000878	0.429	↔	2023-10-25	0.096	↔
19_2_3_105	MW-09	Appendix III	Boron	mg/L	16	0	0%	0.00132	0.598	↔	-0.00132	0.180	↔	2023-10-23	0.180	↔
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	16	0	0%	1.30	0.130	↔	0.119	0.092	↔	2023-03-14	0.574	↔
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0252	0.529	↔	0.0681	0.001	↑	2023-09-23	0.773	↔
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	16	0	0%	0.00261	0.126	↔	-0.000322	0.285	↔	2023-06-06	0.310	↔
19_2_3_120	MW-09	Appendix III	pH (field)	su	16	0	0%	0.00133	0.507	↔	-0.000297	0.007	↓	2023-03-13	0.475	↔
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	3.51	0.155	↔	0.370	0.072	↔	2023-03-27	0.613	↔
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	4.73	0.113	↔	0.542	0.033	↔	2023-04-05	0.705	↔
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	16	11	69%	0.00000163	0.396	↔	-0.000000240	0.136	↔	2023-04-17	0.240	↔
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	16	0	0%	0.000000401	0.660	↔	-0.00000149	0.580	↔	2024-07-17	0.076	↔
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	16	0	0%	-0.00777	0.217	↔	-0.000130	0.792	↔	2023-04-17	0.430	↔
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	16	13	81%	0.0000000500	0.067	↔	-0.000000228	0.434	↔	2025-02-25	0.282	↔
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	16	16	100%	0.00000110	0.278	↔	-0.000000153	0.225	↔	2023-05-22	0.251	↔

(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			
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.00000159	0.376	↔	0.000000242	0.822	↔	2023-12-08	0.147	↔
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000328	0.452	↔	-0.000000418	0.059	↔	2023-03-04	0.296	↔
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.00261	0.126	↔	-0.000322	0.285	↔	2023-06-06	0.310	↔
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	16	16	100%	0.00000544	0.444	↔	-0.000000472	0.175	↔	2023-02-06	0.184	↔
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	16	0	0%	-0.0000839	0.222	↔	0.0000641	0.346	↔	2024-02-13	0.182	↔
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	16	13	81%	4.27	0.158	↔	-2.08	0.079	↔	2023-10-23	0.345	↔
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.0000971	0.008	↓	0.0000133	0.033	↔	2023-05-23	0.599	↔
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	16	15	94%	0.000417	0.465	↔	-0.000159	0.466	↔	2023-08-19	0.087	↔
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	16	2	12%	0.000000338	0.003	↑	-0.000000114	0.283	↔	2025-02-25	0.574	↔
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	16	16	100%	0.000000887	0.683	↔	-0.000000121	0.383	↔	2025-02-24	0.087	↔
19_2_5_111	MW-09	Part 115	Copper	mg/L	16	11	69%	0.000000889	0.041	↔	-0.000000130	0.277	↔	2024-07-17	0.352	↔
19_2_5_114	MW-09	Part 115	Iron	mg/L	16	0	0%	-0.00289	0.556	↔	0.0424	0.448	↔	2025-02-25	0.136	↔
19_2_5_119	MW-09	Part 115	Nickel	mg/L	16	0	0%	-0.00000210	0.985	↔	0.0000433	0.307	↔	2023-09-19	0.181	↔
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	16	15	94%	0.00000000236	0.117	↔	-0.000000126	0.000	↓	2025-04-14	0.999	↔
20_3_3_105	MW-10	Appendix III	Boron	mg/L	16	0	0%	-0.306	0.331	↔	0.0122	0.104	↔	2023-01-09	0.262	↔
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	16	0	0%	0.331	0.145	↔	-0.462	0.212	↔	2024-07-15	0.276	↔
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	16	0	0%	-0.00386	0.245	↔	0.00473	0.382	↔	2024-04-16	0.165	↔
20_3_3_120	MW-10	Appendix III	pH (field)	su	16	0	0%	0.00207	0.566	↔	-0.000620	0.178	↔	2023-05-22	0.166	↔
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	1.17	0.135	↔	-1.79	0.166	↔	2024-05-18	0.289	↔
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	1.55	0.045	↔	-1.79	0.396	↔	2024-08-11	0.347	↔
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	16	12	75%	0.00000119	0.393	↔	-0.000000234	0.185	↔	2023-05-01	0.188	↔
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	16	0	0%	0.00000135	0.072	↔	-0.000000563	0.783	↔	2024-10-15	0.407	↔
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	16	0	0%	-0.00157	0.267	↔	0.000148	0.198	↔	2023-04-10	0.277	↔
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	16	7	44%	0.000000361	0.299	↔	-0.0000000562	0.368	↔	2023-05-23	0.155	↔
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000934	0.234	↔	-0.000000162	0.253	↔	2023-05-23	0.206	↔
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.00000272	0.522	↔	0.00000449	0.523	↔	2024-06-17	0.067	↔
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	0.00000274	0.463	↔	-0.000000746	0.121	↔	2023-05-22	0.219	↔
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00386	0.245	↔	0.00473	0.382	↔	2024-04-16	0.165	↔
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	16	14	88%	0.00000838	0.540	↔	-0.000000753	0.029	↔	2023-02-05	0.363	↔
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	16	0	0%	0.00250	0.651	↔	-0.000195	0.456	↔	2023-03-13	0.089	↔
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	16	14	88%	1.47	0.095	↔	-1.77	0.212	↔	2024-04-07	0.303	↔
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.0000119	0.065	↔	-0.000000506	0.824	↔	2023-09-01	0.521	↔
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	16	12	75%	-0.000275	0.546	↔	0.000328	0.662	↔	2024-05-05	0.047	↔
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	16	1	6%	0.000000487	0.164	↔	-0.000000531	0.131	↔	2024-02-13	0.296	↔
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	16	16	100%	0.000000115	0.654	↔	-0.000000896	0.243	↔	2024-10-15	0.180	↔
20_3_5_111	MW-10	Part 115	Copper	mg/L	16	13	81%	0.000000819	0.834	↔	-0.000000314	0.329	↔	2023-04-09	0.089	↔
20_3_5_119	MW-10	Part 115	Nickel	mg/L	16	7	44%	-0.000000301	0.484	↔	0.000000140	0.602	↔	2025-02-25	0.070	↔
20_3_5_123	MW-10	Part 115	Silver	mg/L	16	16	100%	0.00000190	0.584	↔	-0.000000145	0.085	↔	2023-02-05	0.263	↔
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	16	12	75%	-0.0000000232	0.969	↔	0.000000479	0.422	↔	2024-02-20	0.137	↔
21_2_3_105	MW-11	Appendix III	Boron	mg/L	16	0	0%	-0.0620	0.350	↔	0.00246	0.438	↔	2023-03-13	0.267	↔
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	16	0	0%	1.08	0.440	↔	-0.0844	0.219	↔	2023-03-13	0.219	↔
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	16	0	0%	-0.00630	0.358	↔	0.000350	0.293	↔	2023-03-10	0.250	↔

(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_3_120	MW-11	Appendix III	pH (field)	su	16	0	0%	0.00156	0.386	↔	-0.000240	0.014	↔	2023-02-08	0.444	↔
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	16	6	38%	0.907	0.450	↔	-0.142	0.026	↔	2023-03-13	0.373	↔
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2.62	0.422	↔	-0.319	0.236	↔	2023-04-09	0.181	↔
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	16	12	75%	-0.000000432	0.606	↔	-0.0000000776	0.806	↔	2023-10-10	0.123	↔
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	-0.0000123	0.214	↔	0.000000926	0.246	↔	2023-04-08	0.305	↔
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	16	0	0%	-0.00296	0.248	↔	0.000185	0.368	↔	2023-04-14	0.295	↔
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	16	13	81%	0.000000307	0.204	↔	-0.000000318	0.189	↔	2024-04-06	0.245	↔
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	16	14	88%	-0.000000612	0.463	↔	-0.0000000367	0.907	↔	2023-08-26	0.133	↔
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.0000225	0.372	↔	0.000000257	0.898	↔	2023-04-17	0.239	↔
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	0.000000707	0.620	↔	-0.00000138	0.340	↔	2024-04-06	0.105	↔
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00630	0.358	↔	0.000350	0.293	↔	2023-03-10	0.250	↔
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16	3	19%	-0.000203	0.188	↔	0.00000388	0.833	↔	2023-04-20	0.264	↔
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	16	0	0%	-0.00105	0.329	↔	0.0000189	0.711	↔	2023-03-13	0.301	↔
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	16	13	81%	0.817	0.157	↔	-1.10	0.065	↔	2024-04-06	0.348	↔
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	16	2	12%	-0.0000132	0.207	↔	0.000000816	0.330	↔	2023-03-24	0.257	↔
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	15	4	27%	-0.00106	0.070	↔	0.000117	0.942	↔	2024-07-18	0.378	↔
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16	3	19%	0.000000481	0.172	↔	-0.000000473	0.178	↔	2024-02-13	0.259	↔
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	16	15	94%	0.00000260	0.588	↔	-0.000000218	0.058	↔	2023-02-07	0.300	↔
21_2_5_111	MW-11	Part 115	Copper	mg/L	16	4	25%	-0.0000553	0.356	↔	-0.000000167	0.972	↔	2023-04-10	0.241	↔
21_2_5_114	MW-11	Part 115	Iron	mg/L	16	0	0%	-0.0539	0.202	↔	0.00491	0.026	↔	2023-02-22	0.420	↔
21_2_5_119	MW-11	Part 115	Nickel	mg/L	16	0	0%	-0.0000246	0.357	↔	0.000000660	0.757	↔	2023-04-17	0.236	↔
21_2_5_123	MW-11	Part 115	Silver	mg/L	16	14	88%	0.000000541	0.424	↔	-0.000000125	0.148	↔	2023-04-18	0.209	↔
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	16	13	81%	0.00000192	0.115	↔	-0.00000192	0.325	↔	2024-04-07	0.248	↔
21_2_5_129	MW-11	Part 115	Zinc	mg/L	16	4	25%	-0.000297	0.089	↔	0.0000442	0.154	↔	2023-06-13	0.384	↔
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0315	0.496	↔	0.000199	0.972	↔	2023-04-19	0.086	↔
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	16	0	0%	-0.00335	0.370	↔	-0.0000119	0.888	↔	2023-02-06	0.394	↔
22_2_3_120	MW-12	Appendix III	pH (field)	su	16	0	0%	0.00436	0.329	↔	-0.000362	0.315	↔	2023-03-13	0.162	↔
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.414	0.069	↔	-0.0734	0.015	↔	2023-04-19	0.737	↔
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.187	0.415	↔	0.183	0.425	↔	2024-02-13	0.105	↔
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	16	0	0%	-0.00000136	0.243	↔	0.000000486	0.483	↔	2023-10-23	0.154	↔
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	16	6	38%	0.000000488	0.538	↔	-0.000000399	0.613	↔	2024-04-07	0.062	↔
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00335	0.370	↔	-0.0000119	0.888	↔	2023-02-06	0.394	↔
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	16	12	75%	0.0266	0.523	↔	-0.800	0.009	↓	2024-12-07	0.776	↔
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.0000417	0.757	↔	0.00000279	0.372	↔	2023-01-16	0.075	↔
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	0.00165	0.290	↔	-0.000170	0.378	↔	2023-04-19	0.166	↔
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	16	0	0%	-0.00000743	0.220	↔	0.00000211	0.182	↔	2023-08-06	0.253	↔
22_2_5_111	MW-12	Part 115	Copper	mg/L	16	0	0%	0.000000482	0.780	↔	0.00000226	0.047	↔	2023-12-12	0.568	↔
22_2_5_114	MW-12	Part 115	Iron	mg/L	16	6	38%	-0.0000270	0.722	↔	0.00310	0.004	↑	2025-04-20	0.657	↔
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	16	6	38%	0.00000127	0.021	↔	-0.00000239	0.444	↔	2024-10-16	0.391	↔
22_2_5_129	MW-12	Part 115	Zinc	mg/L	16	0	0%	-0.00000540	0.607	↔	0.0000202	0.072	↔	2024-02-18	0.415	↔
28_1_3_105	MW-18	Appendix III	Boron	mg/L	16	0	0%	0.00383	0.000	↑	0.000586	0.578	↔	2024-05-27	0.903	↔
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	16	0	0%	-1.14	0.128	↔	0.0225	0.690	↔	2023-04-07	0.437	↔

(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_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0854	0.342	↔	0.00697	0.115	↔	2023-03-06	0.286	↔
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	16	0	0%	0.00433	0.282	↔	-0.000630	0.535	↔	2023-07-12	0.160	↔
28_1_3_120	MW-18	Appendix III	pH (field)	su	16	0	0%	0.00209	0.098	↔	0.000122	0.048	↔	2023-02-08	0.611	↔
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-8.29	0.231	↔	0.117	0.455	↔	2023-02-07	0.491	↔
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-5.16	0.112	↔	-0.0240	0.870	↔	2023-03-12	0.587	↔
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	16	3	19%	0.00000244	0.401	↔	-0.000000138	0.318	↔	2023-02-08	0.140	↔
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	16	0	0%	0.0000206	0.045	↔	-0.0000169	0.778	↔	2024-10-16	0.346	↔
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	16	0	0%	0.0000211	0.480	↔	-0.00000391	0.608	↔	2023-08-07	0.092	↔
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	16	7	44%	0.000000151	0.886	↔	-0.000000236	0.086	↔	2023-05-21	0.286	↔
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	16	14	88%	0.0000000454	0.833	↔	0.000000368	0.313	↔	2024-07-15	0.230	↔
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	16	0	0%	-0.0000284	0.000	↓	-0.000000986	0.089	↔	2023-04-18	0.916	↔
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.00433	0.282	↔	-0.000630	0.535	↔	2023-07-12	0.160	↔
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	16	10	62%	-0.000000402	0.168	↔	0.00000133	0.684	↔	2025-04-01	0.184	↔
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	16	0	0%	-0.000201	0.533	↔	0.00000602	0.420	↔	2023-02-07	0.199	↔
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	16	15	94%	0.000000000404	1.000	↔	-0.806	0.002	↓	2024-12-29	0.831	↔
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	16	0	0%	0.0000243	0.250	↔	-0.000000520	0.922	↔	2023-08-07	0.285	↔
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	0.00241	0.329	↔	-0.000355	0.083	↔	2023-04-17	0.303	↔
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	16	0	0%	0.00000160	0.226	↔	-0.00000161	0.225	↔	2024-04-09	0.225	↔
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	16	16	100%	0.00000205	0.686	↔	-0.000000151	0.211	↔	2023-02-07	0.155	↔
28_1_5_111	MW-18	Part 115	Copper	mg/L	16	0	0%	0.000000639	0.267	↔	-0.00000121	0.735	↔	2024-10-16	0.109	↔
28_1_5_114	MW-18	Part 115	Iron	mg/L	16	0	0%	-0.0456	0.051	↔	0.00150	0.159	↔	2023-03-08	0.615	↔
28_1_5_119	MW-18	Part 115	Nickel	mg/L	16	0	0%	-0.0000442	0.006	↓	-0.00000156	0.166	↔	2023-04-17	0.850	↔
28_1_5_129	MW-18	Part 115	Zinc	mg/L	16	0	0%	-0.000238	0.078	↔	-0.0000191	0.229	↔	2023-05-09	0.634	↔
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	16	0	0%	-0.393	0.116	↔	-0.0106	0.862	↔	2023-08-06	0.476	↔
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.241	0.003	↓	-0.0147	0.094	↔	2023-04-21	0.815	↔
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	16	0	0%	-0.00435	0.382	↔	-0.000271	0.258	↔	2023-03-01	0.384	↔
29_1_3_120	MW-19	Appendix III	pH (field)	su	16	0	0%	0.00104	0.488	↔	-0.000246	0.193	↔	2023-04-28	0.168	↔
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-5.54	0.435	↔	-0.0698	0.647	↔	2023-02-07	0.379	↔
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-2.47	0.002	↓	-0.0655	0.688	↔	2023-07-16	0.805	↔
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	16	12	75%	0.00000220	0.440	↔	-0.000000198	0.385	↔	2023-04-17	0.168	↔
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	16	0	0%	0.00000115	0.590	↔	-0.0000113	0.411	↔	2024-10-16	0.265	↔
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	16	0	0%	-0.0000950	0.103	↔	-0.00000115	0.794	↔	2023-04-07	0.528	↔
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	16	3	19%	-0.000000119	0.628	↔	0.0000000514	0.580	↔	2023-09-22	0.046	↔
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000952	0.356	↔	-0.000000162	0.207	↔	2023-05-21	0.209	↔
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	16	5	31%	-0.00000156	0.188	↔	-0.0000000487	0.812	↔	2023-05-23	0.316	↔
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	16	1	6%	-0.00000147	0.189	↔	0.000000764	0.256	↔	2023-12-10	0.235	↔
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00435	0.382	↔	-0.000271	0.258	↔	2023-03-01	0.384	↔
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	16	16	100%	0.00000760	0.627	↔	-0.000000575	0.107	↔	2023-02-07	0.238	↔
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	16	0	0%	-0.0000567	0.062	↔	0.00000944	0.582	↔	2024-02-12	0.575	↔
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	16	15	94%	0.0000000000915	1.000	↔	-0.810	0.002	↓	2024-12-30	0.832	↔
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.00000781	0.538	↔	0.0000158	0.055	↔	2024-02-12	0.327	↔
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	16	7	44%	0.00607	0.491	↔	-0.000473	0.025	↔	2023-02-07	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			
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	16	11	69%	-0.00000150	0.267	↔	0.0000000465	0.891	↔	2023-07-28	0.241	↔
29_1_5_111	MW-19	Part 115	Copper	mg/L	16	13	81%	-0.000000795	0.416	↔	0.000000150	0.683	↔	2023-08-20	0.086	↔
29_1_5_114	MW-19	Part 115	Iron	mg/L	16	0	0%	0.0109	0.031	↔	-0.0247	0.085	↔	2024-09-11	0.441	↔
29_1_5_119	MW-19	Part 115	Nickel	mg/L	16	1	6%	0.0000103	0.101	↔	-0.0000125	0.477	↔	2024-07-18	0.239	↔
29_1_5_123	MW-19	Part 115	Silver	mg/L	16	16	100%	0.000000646	0.584	↔	-0.000000158	0.109	↔	2023-04-17	0.217	↔
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	16	14	88%	-0.00000248	0.494	↔	-0.0000000258	0.978	↔	2023-07-31	0.123	↔
29_1_5_129	MW-19	Part 115	Zinc	mg/L	16	10	62%	-0.00000589	0.277	↔	0.00000431	0.194	↔	2023-12-03	0.211	↔
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	16	0	0%	-0.157	0.368	↔	0.0240	0.443	↔	2023-06-25	0.154	↔
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.0964	0.390	↔	-0.0648	0.000	↓	2023-05-22	0.706	↔
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	16	0	0%	-0.00829	0.001	↓	0.0000363	0.400	↔	2023-01-08	0.783	↔
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.0812	0.106	↔	0.0932	0.506	↔	2024-10-13	0.300	↔
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.0129	0.935	↔	-0.320	0.233	↔	2024-04-08	0.341	↔
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	16	6	38%	0.000000369	0.277	↔	-0.00000000959	0.715	↔	2023-04-17	0.312	↔
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	16	0	0%	-0.00682	0.009	↓	0.000259	0.028	↔	2023-02-15	0.659	↔
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	16	15	94%	0.00000000637	0.148	↔	-0.00000000529	0.223	↔	2024-02-13	0.252	↔
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000221	0.001	↑	0.000000000000259	1.000	↔	2023-07-31	0.846	↔
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	16	8	50%	0.000000738	0.229	↔	-0.0000000306	0.283	↔	2023-02-07	0.220	↔
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	16	0	0%	-0.000000875	0.000	↓	0.000000965	0.603	↔	2025-02-27	0.774	↔
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00829	0.001	↓	0.0000363	0.400	↔	2023-01-08	0.783	↔
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	16	0	0%	0.0000282	0.737	↔	-0.0000317	0.161	↔	2023-06-28	0.247	↔
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	16	14	88%	-0.000000000000582	1.000	↔	-0.778	0.002	↓	2024-12-29	0.831	↔
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	16	0	0%	0.00000395	0.324	↔	-0.000000600	0.557	↔	2023-08-06	0.169	↔
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	15	7	47%	-0.0185	0.028	↔	-0.0000793	0.658	↔	2023-01-13	0.661	↔
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	16	10	62%	-0.000000588	0.580	↔	-0.000000100	0.060	↔	2023-03-06	0.451	↔
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	16	15	94%	0.0000000318	0.148	↔	-0.0000000265	0.223	↔	2024-02-13	0.252	↔
30_1_5_111	MW-20	Part 115	Copper	mg/L	16	2	12%	0.000000505	0.013	↔	-0.00000148	0.202	↔	2024-10-16	0.491	↔
30_1_5_119	MW-20	Part 115	Nickel	mg/L	16	0	0%	-0.00000526	0.000	↓	0.0000184	0.137	↔	2025-03-03	0.722	↔
40_1_3_105	MW-30	Appendix III	Boron	mg/L	16	0	0%	-0.000759	0.231	↔	0.00260	0.510	↔	2025-02-24	0.180	↔
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	16	0	0%	-0.484	0.341	↔	0.464	0.143	↔	2023-11-22	0.250	↔
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.208	0.408	↔	2.67	0.000	↑	2024-04-27	0.924	↔
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	16	0	0%	-0.000255	0.219	↔	0.00156	0.507	↔	2025-02-25	0.158	↔
40_1_3_120	MW-30	Appendix III	pH (field)	su	16	0	0%	0.00346	0.161	↔	-0.000261	0.181	↔	2023-03-13	0.285	↔
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.213	0.331	↔	0.675	0.623	↔	2024-10-18	0.111	↔
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.122	0.808	↔	6.94	0.000	↑	2024-08-22	0.874	↔
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	16	14	88%	0.00000203	0.310	↔	-0.000000192	0.431	↔	2023-05-02	0.176	↔
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	16	2	12%	-0.000000326	0.858	↔	0.00000354	0.006	↑	2024-02-11	0.627	↔
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	16	0	0%	-0.000452	0.045	↔	0.0000272	0.116	↔	2023-03-31	0.530	↔
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	16	13	81%	-0.000000220	0.606	↔	0.0000000740	0.504	↔	2023-07-15	0.059	↔
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000871	0.487	↔	-0.0000000565	0.712	↔	2023-05-21	0.119	↔
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.0000759	0.555	↔	-0.00000220	0.433	↔	2023-02-05	0.306	↔
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.000255	0.219	↔	0.00156	0.507	↔	2025-02-25	0.158	↔
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	16	15	94%	0.00000892	0.364	↔	-0.000000203	0.651	↔	2023-02-06	0.123	↔

(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			
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	16	0	0%	-0.000119	0.256	↔	0.000166	0.123	↔	2024-03-08	0.271	↔
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	16	15	94%	0.241	0.118	↔	-0.508	0.004	↓	2024-04-06	0.599	↔
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	16	3	19%	-0.00000584	0.709	↔	0.0000110	0.259	↔	2023-12-07	0.172	↔
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	16	7	44%	-0.00000144	0.437	↔	0.000000118	0.721	↔	2023-06-26	0.130	↔
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	16	16	100%	0.00000449	0.140	↔	-0.000000810	0.548	↔	2023-02-08	0.302	↔
40_1_5_111	MW-30	Part 115	Copper	mg/L	16	11	69%	0.000000164	0.617	↔	-0.00000169	0.658	↔	2025-02-25	0.054	↔
40_1_5_114	MW-30	Part 115	Iron	mg/L	16	0	0%	-0.00197	0.884	↔	0.00967	0.251	↔	2023-12-29	0.199	↔
40_1_5_119	MW-30	Part 115	Nickel	mg/L	16	3	19%	-0.00000724	0.939	↔	0.0000544	0.351	↔	2023-12-18	0.152	↔
40_1_5_123	MW-30	Part 115	Silver	mg/L	16	16	100%	0.00000180	0.674	↔	-0.000000854	0.363	↔	2023-02-05	0.124	↔
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	16	15	94%	-0.00000253	0.539	↔	0.000000985	0.529	↔	2023-09-01	0.064	↔
40_1_5_129	MW-30	Part 115	Zinc	mg/L	16	10	62%	-0.0000108	0.900	↔	0.0000487	0.359	↔	2023-12-10	0.143	↔
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	16	0	0%	-0.152	0.194	↔	0.0204	0.486	↔	2023-06-27	0.199	↔
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0214	0.349	↔	0.180	0.016	↔	2024-10-02	0.564	↔
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	16	0	0%	0.00204	0.311	↔	-0.00106	0.001	↓	2023-05-18	0.665	↔
41_1_3_120	MW-31	Appendix III	pH (field)	su	16	0	0%	0.0000860	0.501	↔	-0.000656	0.654	↔	2025-02-25	0.063	↔
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.454	0.117	↔	-0.00784	0.940	↔	2023-09-02	0.412	↔
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.143	0.109	↔	0.787	0.158	↔	2024-11-26	0.392	↔
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	16	14	88%	0.0000000284	0.106	↔	-0.0000000648	0.198	↔	2024-10-14	0.299	↔
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	16	15	94%	0.000000217	0.000	↑	-0.0000000522	0.741	↔	2023-08-17	0.843	↔
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.00000168	0.091	↔	-0.00000365	0.198	↔	2024-10-14	0.316	↔
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	0.0000000592	0.550	↔	-0.000000324	0.604	↔	2024-10-15	0.109	↔
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.00204	0.311	↔	-0.00106	0.001	↓	2023-05-18	0.665	↔
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	16	13	81%	-0.000000151	0.057	↔	0.00000132	0.137	↔	2025-04-09	0.368	↔
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	16	0	0%	0.00000277	0.963	↔	-0.0000102	0.343	↔	2023-06-26	0.116	↔
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	16	14	88%	-0.000000000365	1.000	↔	-0.795	0.002	↓	2024-12-27	0.830	↔
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	16	6	38%	0.000794	0.693	↔	-0.000323	0.203	↔	2023-05-20	0.147	↔
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	16	6	38%	0.000000292	0.474	↔	-0.000000340	0.404	↔	2024-02-12	0.104	↔
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	16	15	94%	0.0000000119	0.147	↔	-0.00000000986	0.222	↔	2024-02-12	0.253	↔
41_1_5_111	MW-31	Part 115	Copper	mg/L	16	10	62%	0.000000261	0.056	↔	-0.000000115	0.583	↔	2024-04-08	0.346	↔
41_1_5_114	MW-31	Part 115	Iron	mg/L	16	0	0%	-0.00664	0.000	↓	0.000675	0.182	↔	2023-09-26	0.858	↔
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	16	0	0%	-0.185	0.059	↔	-0.00185	0.957	↔	2023-08-08	0.459	↔
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0204	0.021	↔	0.0259	0.006	↑	2024-03-14	0.609	↔
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	16	0	0%	0.000245	0.277	↔	-0.00105	0.459	↔	2024-10-21	0.195	↔
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.217	0.414	↔	-0.0361	0.716	↔	2023-10-16	0.266	↔
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.570	0.113	↔	-0.0166	0.897	↔	2023-08-08	0.378	↔
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	16	12	75%	0.000000638	0.093	↔	-0.000000480	0.194	↔	2024-02-12	0.307	↔
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	0.00000182	0.123	↔	-0.00000161	0.167	↔	2024-02-12	0.291	↔
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	16	0	0%	-0.00245	0.287	↔	0.000938	0.005	↑	2023-04-23	0.559	↔
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	16	15	94%	0.0000000165	0.147	↔	-0.0000000137	0.223	↔	2024-02-12	0.253	↔
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.00000197	0.244	↔	-0.00000189	0.260	↔	2024-02-12	0.196	↔
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000141	0.295	↔	-0.00000117	0.155	↔	2024-02-11	0.241	↔
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.000245	0.277	↔	-0.00105	0.459	↔	2024-10-21	0.195	↔

(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			
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	16	0	0%	-0.000429	0.554	↔	0.0000279	0.421	↔	2023-02-18	0.092	↔
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	16	14	88%	1.48	0.170	↔	-1.78	0.103	↔	2024-04-06	0.305	↔
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	16	0	0%	0.00000293	0.389	↔	-0.00000557	0.016	↔	2024-02-11	0.457	↔
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	-0.000185	0.261	↔	0.00175	0.357	↔	2025-03-04	0.194	↔
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	16	13	81%	0.000000535	0.489	↔	-0.000000639	0.183	↔	2024-02-11	0.173	↔
42_1_5_111	MW-32	Part 115	Copper	mg/L	16	9	56%	0.0000146	0.271	↔	-0.0000120	0.143	↔	2024-02-11	0.258	↔
42_1_5_114	MW-32	Part 115	Iron	mg/L	16	0	0%	-0.0280	0.005	↓	0.00178	0.576	↔	2023-08-08	0.640	↔
42_1_5_119	MW-32	Part 115	Nickel	mg/L	16	0	0%	0.0000190	0.312	↔	-0.0000159	0.168	↔	2024-02-11	0.228	↔
42_1_5_129	MW-32	Part 115	Zinc	mg/L	16	0	0%	-0.0000565	0.647	↔	0.0000366	0.259	↔	2023-07-23	0.139	↔

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_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-1.13	0.581	↔	0.533	0.259	↔	-0.0763	0.294	↔	2023-02-07	2023-07-01	0.249	↔
11_2_3_120	MW-01R	Appendix III	pH (field)	su	16	0	0%	0.00509	0.248	↔	-0.000790	0.723	↔	0.000392	0.734	↔	2023-04-29	2024-02-13	0.247	↔
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	16	3	19%	0.00000380	0.246	↔	-0.00000143	0.173	↔	0.0000000755	0.901	↔	2023-04-17	2024-04-01	0.465	↔
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	-0.00000520	0.460	↔	0.00000543	0.425	↔	-0.00000265	0.110	↔	2023-05-13	2024-02-12	0.345	↔
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	16	2	12%	0.000000327	0.443	↔	-0.000000598	0.017	↔	0.000000941	0.162	↔	2023-08-07	2024-10-24	0.596	↔
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	16	13	81%	0.00000132	0.134	↔	-0.00000111	0.791	↔	-0.000000125	0.537	↔	2023-05-31	2023-09-24	0.330	↔
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000333	0.416	↔	-0.0000128	0.254	↔	0.00000137	0.807	↔	2024-02-12	2024-07-20	0.255	↔
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	16	2	12%	-0.0000206	0.691	↔	0.0000108	0.358	↔	-0.00000252	0.179	↔	2023-01-21	2023-06-28	0.248	↔
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	16	0	0%	0.00453	0.223	↔	0.0127	0.140	↔	0.00282	0.305	↔	2024-04-17	2023-08-18	0.281	↔
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	16	15	94%	0.000000000756	1.000	↔	-0.00000000213	1.000	↔	-0.795	0.005	↓	2023-11-03	2024-12-27	0.830	↔
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	0.00000572	0.108	↔	-0.0000162	0.414	↔	0.00000203	0.749	↔	2024-02-13	2024-08-21	0.377	↔
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	0.00515	0.320	↔	-0.00127	0.566	↔	0.000319	0.453	↔	2023-02-23	2023-10-23	0.220	↔
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	16	0	0%	0.00000144	0.231	↔	-0.00000249	0.433	↔	0.0000000170	0.992	↔	2024-02-12	2024-09-01	0.284	↔
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	16	16	100%	0.00000158	0.290	↔	0.00000000295	0.993	↔	-0.00000105	0.435	↔	2023-04-24	2024-12-14	0.328	↔
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	16	0	0%	0.0000258	0.052	↔	-0.0000573	0.423	↔	0.00000875	0.702	↔	2024-02-13	2024-08-23	0.396	↔
11_2_5_123	MW-01R	Part 115	Silver	mg/L	16	16	100%	0.00000245	0.208	↔	-0.000000645	0.589	↔	-0.0000000903	0.496	↔	2023-02-10	2023-07-02	0.306	↔
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	16	2	12%	0.0000151	0.023	↔	-0.0000136	0.492	↔	0.00000193	0.379	↔	2023-07-23	2023-11-27	0.551	↔
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.639	0.402	↔	0.221	0.231	↔	0.0151	0.585	↔	2023-02-07	2023-07-16	0.458	↔
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	16	0	0%	-0.0338	0.640	↔	0.0111	0.383	↔	0.00516	0.120	↔	2023-02-07	2023-08-22	0.599	↔
12_2_3_120	MW-02	Appendix III	pH (field)	su	16	0	0%	0.00155	0.042	↔	-0.00213	0.533	↔	-0.0000536	0.747	↔	2023-05-23	2023-08-18	0.454	↔
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	16	10	62%	-0.00485	0.336	↔	0.0169	0.253	↔	-0.00401	0.169	↔	2023-09-23	2024-04-09	0.531	↔
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.0601	0.924	↔	1.28	0.220	↔	-2.48	0.131	↔	2023-12-09	2025-02-24	0.600	↔
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16	3	19%	0.00000281	0.011	↔	-0.00000743	0.096	↔	0.00000000377	0.979	↔	2023-05-16	2023-07-02	0.647	↔
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	16	0	0%	0.000192	0.407	↔	-0.00134	0.332	↔	0.000576	0.200	↔	2024-02-13	2024-08-30	0.443	↔
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	16	11	69%	0.000000754	0.101	↔	-0.000000840	0.476	↔	0.000000263	0.660	↔	2023-10-24	2024-09-16	0.353	↔
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.0000513	0.305	↔	0.0000984	0.261	↔	-0.000243	0.331	↔	2024-02-13	2025-04-02	0.297	↔

(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				
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.0338	0.640	↔	0.0111	0.383	↔	0.00516	0.120	↔	2023-02-07	2023-08-22	0.599	↔
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	16	0	0%	-0.000294	0.712	↔	-0.00452	0.241	↔	-0.00198	0.465	↔	2025-01-29	2024-03-04	0.400	↔
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	16	14	88%	-0.00000000899	1.000	↔	0.00000000106	1.000	↔	-0.785	0.005	↓	2023-06-06	2024-12-28	0.835	↔
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.00000728	0.050	↔	0.0000842	0.003	↑	-0.0000672	0.024	↔	2024-09-28	2025-02-28	0.774	↔
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	15	5	33%	-0.00413	0.111	↔	0.00653	0.717	↔	0.0000581	0.980	↔	2024-02-12	2024-04-19	0.490	↔
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	16	0	0%	0.00000431	0.489	↔	0.00000460	0.283	↔	-0.00000639	0.199	↔	2024-08-29	2025-03-06	0.509	↔
12_2_5_111	MW-02	Part 115	Copper	mg/L	16	0	0%	-0.000000270	0.897	↔	-0.0000271	0.176	↔	-0.0000129	0.162	↔	2025-01-06	2024-06-26	0.366	↔
12_2_5_114	MW-02	Part 115	Iron	mg/L	16	0	0%	0.0648	0.231	↔	-0.0484	0.340	↔	0.00206	0.763	↔	2023-03-24	2023-08-08	0.265	↔
12_2_5_119	MW-02	Part 115	Nickel	mg/L	16	0	0%	-0.0000255	0.249	↔	0.000165	0.034	↔	-0.000164	0.238	↔	2024-07-12	2025-03-01	0.540	↔
12_2_5_129	MW-02	Part 115	Zinc	mg/L	16	0	0%	-0.0000166	0.406	↔	0.000122	0.447	↔	-0.000188	0.042	↔	2024-06-30	2025-02-20	0.452	↔
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	16	0	0%	0.215	0.384	↔	-0.145	0.100	↔	0.228	0.442	↔	2023-06-08	2025-01-12	0.405	↔
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.861	0.005	↓	0.556	0.604	↔	-0.0946	0.028	↔	2023-05-11	2023-07-05	0.846	↔
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	16	0	0%	-0.00372	0.289	↔	0.000112	0.771	↔	0.00114	0.732	↔	2023-04-06	2025-03-03	0.300	↔
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	3.72	0.033	↔	-0.887	0.002	↓	0.333	0.740	↔	2023-04-17	2024-12-31	0.795	↔
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2.23	0.131	↔	-1.10	0.005	↓	0.639	0.618	↔	2023-05-04	2025-01-22	0.764	↔
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	16	10	62%	0.00000211	0.166	↔	-0.000000593	0.174	↔	-0.0000000140	0.985	↔	2023-05-11	2024-09-02	0.428	↔
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	16	0	0%	-0.00000226	0.385	↔	0.00000138	0.313	↔	-0.000000493	0.481	↔	2023-05-21	2024-04-06	0.262	↔
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	16	0	0%	0.000237	0.457	↔	-0.000956	0.275	↔	0.000349	0.430	↔	2024-01-27	2024-08-01	0.228	↔
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	16	10	62%	0.0000000701	0.625	↔	-0.000000325	0.779	↔	0.000000210	0.728	↔	2024-04-07	2024-12-20	0.102	↔
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	16	15	94%	0.00000102	0.356	↔	-0.000000207	0.402	↔	-0.0000000423	0.966	↔	2023-05-22	2024-11-22	0.231	↔
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.00000659	0.802	↔	-0.00000714	0.538	↔	0.000000405	0.852	↔	2023-03-03	2023-10-23	0.238	↔
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000146	0.338	↔	-0.00000150	0.245	↔	0.000000723	0.798	↔	2023-10-23	2024-11-26	0.255	↔
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00372	0.289	↔	0.000112	0.771	↔	0.00114	0.732	↔	2023-04-06	2025-03-03	0.300	↔
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	16	15	94%	0.0000153	0.138	↔	-0.00000254	0.050	↔	-0.000000278	0.590	↔	2023-01-30	2023-10-24	0.680	↔
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	16	0	0%	-0.0000717	0.470	↔	-0.0000292	0.226	↔	0.00000143	0.954	↔	2023-04-17	2024-04-08	0.562	↔
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	16	13	81%	0.118	0.444	↔	-0.0915	0.476	↔	-0.732	0.026	↔	2023-10-23	2024-12-28	0.784	↔
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	16	3	19%	-0.00000149	0.509	↔	0.00000141	0.520	↔	-0.000000347	0.491	↔	2023-05-22	2023-12-02	0.140	↔
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	16	15	94%	0.00000419	0.096	↔	-0.000000174	0.477	↔	-0.000000817	0.153	↔	2023-02-18	2024-10-14	0.614	↔
13_2_5_119	MW-03	Part 115	Nickel	mg/L	16	1	6%	-0.0000406	0.226	↔	-0.000000147	0.979	↔	0.0000000549	0.999	↔	2023-04-23	2025-02-26	0.307	↔
13_2_5_123	MW-03	Part 115	Silver	mg/L	16	16	100%	0.00000237	0.223	↔	-0.000000649	0.589	↔	-0.0000000892	0.503	↔	2023-02-11	2023-07-03	0.299	↔
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	16	9	56%	-0.00000249	0.483	↔	0.00000427	0.530	↔	-0.000000788	0.764	↔	2023-08-07	2024-04-19	0.213	↔
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	16	11	69%	0.00000207	0.243	↔	-0.000000624	0.357	↔	0.000000294	0.639	↔	2023-05-22	2024-07-16	0.302	↔
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	-0.000000424	0.644	↔	0.00000477	0.127	↔	-0.00000969	0.123	↔	2024-06-19	2025-04-08	0.509	↔
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	16	14	88%	-0.0000000607	0.543	↔	0.0000000362	0.650	↔	-0.0000000251	0.024	↔	2023-11-11	2024-07-17	0.542	↔
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000481	0.221	↔	-0.00000276	0.374	↔	0.0000000861	0.817	↔	2024-02-13	2024-05-04	0.312	↔
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	16	0	0%	-0.0000000994	0.928	↔	-0.00000112	0.309	↔	0.0000000401	0.952	↔	2023-07-17	2024-04-21	0.463	↔
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	16	15	94%	0.0000101	0.414	↔	-0.00000266	0.227	↔	0.000000296	0.576	↔	2023-02-06	2023-09-25	0.364	↔
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	16	14	88%	0.000000000148	1.000	↔	-0.000000000130	1.000	↔	-0.821	0.004	↓	2023-04-29	2025-01-01	0.839	↔
14_2_5_119	MW-04	Part 115	Nickel	mg/L	16	0	0%	0.0000355	0.298	↔	-0.00000447	0.844	↔	-0.0000194	0.503	↔	2023-06-28	2024-08-28	0.245	↔
14_2_5_123	MW-04	Part 115	Silver	mg/L	16	16	100%	0.00000237	0.224	↔	-0.000000645	0.592	↔	-0.0000000897	0.501	↔	2023-02-11	2023-07-03	0.298	↔
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	16	10	62%	0.0000000000255	1.000	↔	0.00000285	0.014	↔	-0.000000979	0.075	↔	2024-01-17	2024-08-05	0.832	↔
14_2_5_129	MW-04	Part 115	Zinc	mg/L	16	10	62%	-0.00000545	0.359	↔	0.0000117	0.465	↔	-0.00000811	0.330	↔	2024-01-28	2024-10-14	0.225	↔

(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				
16_1_3_105	MW-06	Appendix III	Boron	mg/L	16	0	0%	-0.00641	0.155	↔	0.0108	0.411	↔	-0.00129	0.928	↔	2024-03-26	2024-11-04	0.271	↔
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	16	0	0%	0.0969	0.108	↔	-0.375	0.416	↔	0.169	0.478	↔	2024-04-07	2024-12-27	0.544	↔
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.657	0.014	↔	-0.138	0.025	↔	0.0573	0.333	↔	2023-03-19	2024-04-07	0.864	↔
16_1_3_120	MW-06	Appendix III	pH (field)	su	16	0	0%	-0.0110	0.009	↓	0.00752	0.285	↔	0.000136	0.478	↔	2023-02-06	2023-04-26	0.678	↔
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	16	2	12%	-0.0362	0.079	↔	0.0612	0.084	↔	-0.0984	0.315	↔	2024-03-07	2025-02-26	0.464	↔
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	16	14	88%	0.00000203	0.170	↔	-0.00000277	0.652	↔	-0.000000754	0.730	↔	2023-05-19	2023-08-03	0.325	↔
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	16	0	0%	-0.00000240	0.212	↔	0.00000278	0.130	↔	-0.000000539	0.042	↔	2023-04-07	2023-09-13	0.517	↔
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	16	0	0%	-0.00238	0.266	↔	0.000662	0.096	↔	-0.000434	0.563	↔	2023-04-17	2024-07-18	0.378	↔
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	16	15	94%	-0.0000000131	0.022	↔	0.00000000415	0.641	↔	-0.00000000233	0.896	↔	2023-03-19	2024-08-16	0.621	↔
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000397	0.189	↔	-0.00000114	0.494	↔	0.0000000971	0.859	↔	2024-02-13	2024-07-29	0.252	↔
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.0000127	0.189	↔	-0.0000135	0.465	↔	-0.000000642	0.223	↔	2023-02-28	2023-05-19	0.576	↔
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000287	0.230	↔	-0.000000696	0.039	↔	0.0000000869	0.812	↔	2023-02-09	2024-05-10	0.604	↔
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	16	10	62%	0.00000156	0.721	↔	0.00000337	0.503	↔	0.000000106	0.876	↔	2024-01-30	2023-04-13	0.319	↔
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	16	0	0%	-0.000297	0.492	↔	-0.000156	0.143	↔	0.0000774	0.479	↔	2023-04-17	2024-04-08	0.544	↔
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	16	14	88%	0.000000000183	1.000	↔	-0.0000000000596	1.000	↔	-0.790	0.006	↓	2023-01-30	2024-12-27	0.829	↔
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	0.00391	0.622	↔	-0.00104	0.324	↔	0.000688	0.584	↔	2023-03-13	2024-05-25	0.167	↔
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	16	5	31%	-0.000000391	0.675	↔	0.000000369	0.224	↔	-0.000000238	0.194	↔	2023-03-20	2024-02-13	0.301	↔
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	16	16	100%	0.00000323	0.291	↔	-0.00000113	0.701	↔	-0.000000138	0.446	↔	2023-02-19	2023-06-27	0.285	↔
16_1_5_111	MW-06	Part 115	Copper	mg/L	16	12	75%	-0.00000000549	0.979	↔	0.000000364	0.379	↔	-0.000000197	0.229	↔	2023-10-18	2024-07-17	0.430	↔
16_1_5_114	MW-06	Part 115	Iron	mg/L	16	0	0%	0.0211	0.096	↔	-0.0733	0.062	↔	-0.00304	0.939	↔	2024-04-01	2024-11-21	0.673	↔
16_1_5_119	MW-06	Part 115	Nickel	mg/L	16	6	38%	-0.00000311	0.061	↔	0.000000144	0.962	↔	-0.0000000220	0.936	↔	2023-04-18	2023-08-14	0.503	↔
16_1_5_123	MW-06	Part 115	Silver	mg/L	16	16	100%	0.00000203	0.601	↔	-0.000000184	0.221	↔	0.0000000651	0.934	↔	2023-02-05	2025-01-01	0.278	↔
17_1_3_105	MW-07	Appendix III	Boron	mg/L	16	0	0%	-0.0531	0.202	↔	0.00142	0.551	↔	-0.00456	0.174	↔	2023-01-05	2024-04-08	0.501	↔
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0104	0.002	↓	0.00312	0.061	↔	0.00769	0.000	↑	2023-06-10	2024-07-16	0.946	↔
17_1_3_120	MW-07	Appendix III	pH (field)	su	16	0	0%	-0.000694	0.226	↔	0.00134	0.411	↔	-0.000320	0.311	↔	2023-08-07	2024-02-15	0.339	↔
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-0.100	0.064	↔	0.0702	0.411	↔	-0.00693	0.633	↔	2023-05-25	2024-01-07	0.458	↔
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	16	15	94%	0.000000276	0.000	↑	-0.00000000476	0.976	↔	0.000000000295	0.986	↔	2023-07-14	2024-02-07	0.906	↔
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	16	0	0%	-0.000000376	0.417	↔	0.000000210	0.156	↔	-0.000000167	0.071	↔	2023-04-10	2024-03-07	0.419	↔
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	16	0	0%	-0.000208	0.622	↔	0.000131	0.016	↔	-0.000176	0.662	↔	2023-04-17	2025-03-19	0.571	↔
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	16	13	81%	0.0000000195	0.444	↔	-0.0000000179	0.305	↔	0.00000000430	0.840	↔	2023-08-06	2024-08-02	0.220	↔
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.000000261	0.418	↔	0.00000140	0.570	↔	-0.000000794	0.024	↔	2023-12-12	2024-07-16	0.527	↔
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000119	0.043	↔	-0.00000123	0.109	↔	0.000000443	0.083	↔	2023-07-06	2024-02-13	0.550	↔
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	16	16	100%	-0.000000617	0.002	↓	-0.00000000000000328	1.000	↔	0.00000000000000155	1.000	↔	2023-07-30	2024-01-29	0.846	↔
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	16	0	0%	0.00000938	0.298	↔	-0.0000218	0.462	↔	0.00000417	0.217	↔	2023-06-27	2023-11-30	0.337	↔
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	16	15	94%	-0.0000000000229	1.000	↔	0.00000000618	1.000	↔	-0.803	0.005	↓	2024-07-10	2024-12-29	0.832	↔
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	16	16	100%	0.000000259	0.599	↔	-0.00000629	0.002	↓	0.0000000327	0.487	↔	2023-04-05	2023-06-09	0.972	↔
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	16	2	12%	0.000659	0.800	↔	-0.00106	0.431	↔	0.00267	0.504	↔	2023-08-03	2025-02-14	0.166	↔
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	16	9	56%	-0.000000597	0.038	↔	0.0000000973	0.579	↔	-0.000000151	0.493	↔	2023-07-20	2024-10-14	0.557	↔
17_1_5_111	MW-07	Part 115	Copper	mg/L	16	12	75%	-0.0000000366	0.881	↔	0.000000573	0.195	↔	-0.00000162	0.213	↔	2024-02-20	2025-03-11	0.415	↔
17_1_5_119	MW-07	Part 115	Nickel	mg/L	16	14	88%	-0.0000000220	0.806	↔	0.000000143	0.128	↔	-0.00000374	0.000	↓	2024-01-11	2025-03-23	0.971	↔
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	16	12	75%	-0.000000000000123	1.000	↔	0.00000170	0.083	↔	-0.000000587	0.068	↔	2024-04-07	2024-09-10	0.720	↔
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	16	0	0%	-0.0897	0.037	↔	-0.0127	0.901	↔	0.0823	0.142	↔	2023-10-26	2024-09-07	0.595	↔

(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				
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	16	0	0%	0.0102	0.031	↔	-0.00571	0.488	↔	-0.0000809	0.721	↔	2023-03-08	2023-05-13	0.604	↔
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	16	4	25%	-0.0930	0.226	↔	0.0283	0.693	↔	0.106	0.033	↔	2023-07-11	2024-06-09	0.684	↔
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	16	0	0%	0.000617	0.007	↑	-0.000122	0.144	↔	0.0000354	0.036	↔	2023-02-16	2023-10-06	0.714	↔
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	16	0	0%	0.00000792	0.315	↔	-0.000000740	0.009	↓	-0.000000448	0.847	↔	2023-01-24	2025-03-15	0.661	↔
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000504	0.224	↔	-0.000000891	0.203	↔	0.000000760	0.125	↔	2023-02-07	2024-03-11	0.389	↔
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.0102	0.031	↔	-0.00571	0.488	↔	-0.0000809	0.721	↔	2023-03-08	2023-05-13	0.604	↔
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	16	10	62%	-0.00000229	0.293	↔	0.00000606	0.298	↔	-0.00000648	0.046	↔	2023-11-30	2024-10-15	0.483	↔
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	16	15	94%	0.000000000292	1.000	↔	-0.000000000628	1.000	↔	-0.788	0.006	↓	2023-01-09	2024-12-27	0.827	↔
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	-0.00516	0.766	↔	-0.000814	0.321	↔	0.000553	0.779	↔	2023-02-06	2024-09-13	0.302	↔
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	16	6	38%	-0.000000103	0.362	↔	0.000000457	0.544	↔	-0.00000102	0.248	↔	2024-07-18	2025-02-26	0.300	↔
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	16	15	94%	-0.0000000226	0.594	↔	0.0000000817	0.237	↔	-0.000000195	0.081	↔	2024-01-04	2025-02-25	0.468	↔
18_1_5_111	MW-08	Part 115	Copper	mg/L	16	5	31%	-0.00000000219	0.994	↔	0.00000191	0.386	↔	-0.00000250	0.046	↔	2024-04-07	2024-12-30	0.615	↔
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	16	14	88%	-0.000000142	0.464	↔	0.000000519	0.018	↔	-0.00000311	0.001	↓	2024-01-05	2025-03-01	0.838	↔
18_1_5_129	MW-08	Part 115	Zinc	mg/L	16	3	19%	-0.000106	0.439	↔	0.000457	0.553	↔	-0.000189	0.462	↔	2024-03-13	2024-10-15	0.238	↔
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	16	0	0%	1.19	0.067	↔	-0.964	0.432	↔	0.188	0.106	↔	2023-05-15	2023-08-08	0.630	↔
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.00793	0.533	↔	-0.340	0.003	↓	-0.178	0.042	↔	2025-04-01	2024-07-03	0.908	↔
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	16	0	0%	0.00314	0.013	↔	-0.00280	0.450	↔	0.000486	0.242	↔	2023-07-24	2024-02-12	0.599	↔
19_2_3_120	MW-09	Appendix III	pH (field)	su	16	0	0%	0.00122	0.072	↔	-0.00175	0.572	↔	-0.0000999	0.512	↔	2023-05-23	2023-09-26	0.624	↔
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	3.94	0.113	↔	0.00625	0.985	↔	1.39	0.362	↔	2023-04-03	2024-10-17	0.690	↔
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	5.50	0.013	↔	-2.59	0.502	↔	1.00	0.013	↔	2023-05-05	2023-09-18	0.785	↔
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	16	11	69%	0.00000168	0.267	↔	-0.000000282	0.621	↔	-0.000000195	0.714	↔	2023-04-18	2024-05-19	0.241	↔
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	16	0	0%	-0.00000541	0.467	↔	0.00000196	0.274	↔	-0.00000165	0.387	↔	2023-04-17	2024-04-19	0.238	↔
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	16	0	0%	-0.00789	0.117	↔	0.000603	0.895	↔	-0.000330	0.755	↔	2023-04-27	2023-12-02	0.434	↔
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	16	13	81%	-0.0000000150	0.700	↔	0.000000263	0.057	↔	-0.000000426	0.101	↔	2024-06-19	2025-02-25	0.579	↔
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000476	0.237	↔	-0.00000122	0.260	↔	0.0000000925	0.865	↔	2024-02-12	2024-07-24	0.292	↔
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.00000184	0.340	↔	0.00000203	0.504	↔	-0.00000180	0.700	↔	2024-01-30	2024-11-08	0.203	↔
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000540	0.235	↔	-0.00000399	0.374	↔	-0.000000263	0.339	↔	2023-03-09	2023-05-23	0.395	↔
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.00314	0.013	↔	-0.00280	0.450	↔	0.000486	0.242	↔	2023-07-24	2024-02-12	0.599	↔
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	16	16	100%	0.00000393	0.214	↔	-0.00000598	0.662	↔	0.000000175	0.711	↔	2023-04-18	2023-08-07	0.366	↔
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.0000853	0.067	↔	-0.00000434	0.916	↔	0.0000221	0.038	↔	2023-05-18	2024-02-12	0.647	↔
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	16	15	94%	0.000441	0.331	↔	-0.000444	0.532	↔	0.000959	0.389	↔	2023-11-09	2025-02-24	0.209	↔
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	16	2	12%	-0.000000193	0.532	↔	0.000000662	0.003	↑	-0.00000161	0.083	↔	2023-10-12	2025-02-25	0.757	↔
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	16	16	100%	0.00000260	0.700	↔	0.00000000975	0.964	↔	-0.00000105	0.626	↔	2023-02-01	2025-02-25	0.156	↔
19_2_5_111	MW-09	Part 115	Copper	mg/L	16	11	69%	-0.000000224	0.781	↔	0.00000258	0.686	↔	-0.00000189	0.033	↔	2023-11-12	2024-07-16	0.505	↔
19_2_5_114	MW-09	Part 115	Iron	mg/L	16	0	0%	0.0600	0.151	↔	-0.171	0.345	↔	0.00610	0.332	↔	2023-05-13	2023-07-06	0.331	↔
19_2_5_119	MW-09	Part 115	Nickel	mg/L	16	0	0%	-0.0000376	0.615	↔	0.000119	0.327	↔	-0.000318	0.106	↔	2023-11-02	2025-02-24	0.462	↔
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	16	15	94%	-0.0000000314	0.765	↔	0.0000000360	0.322	↔	-0.000000817	0.000	↓	2023-06-10	2025-02-07	0.893	↔
20_3_3_105	MW-10	Appendix III	Boron	mg/L	16	0	0%	0.0370	0.258	↔	-0.127	0.186	↔	0.0384	0.050	↔	2023-10-15	2024-02-19	0.473	↔
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	16	0	0%	-0.369	0.342	↔	1.90	0.106	↔	-0.568	0.021	↔	2023-10-21	2024-04-06	0.627	↔
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	16	0	0%	0.00741	0.260	↔	-0.0239	0.212	↔	0.00668	0.084	↔	2023-09-14	2024-02-23	0.451	↔
20_3_3_120	MW-10	Appendix III	pH (field)	su	16	0	0%	0.00469	0.180	↔	-0.00729	0.294	↔	0.000140	0.818	↔	2023-05-22	2023-09-03	0.403	↔
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	16	12	75%	0.000000380	0.489	↔	-0.00000140	0.351	↔	0.000000145	0.847	↔	2024-02-12	2024-08-06	0.221	↔

(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				
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	16	0	0%	0.000000693	0.553	↔	0.00000279	0.433	↔	-0.00000140	0.721	↔	2024-02-13	2024-10-24	0.436	↔
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	16	7	44%	0.000000567	0.089	↔	-0.000000272	0.164	↔	0.000000160	0.288	↔	2023-05-23	2024-05-26	0.425	↔
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000399	0.188	↔	-0.00000115	0.494	↔	0.0000000986	0.857	↔	2024-02-13	2024-07-29	0.253	↔
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	0.00000493	0.058	↔	-0.00000342	0.104	↔	0.000000761	0.372	↔	2023-05-23	2024-02-28	0.540	↔
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	0.00741	0.260	↔	-0.0239	0.212	↔	0.00668	0.084	↔	2023-09-14	2024-02-23	0.451	↔
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	16	14	88%	0.0000113	0.422	↔	-0.00000182	0.274	↔	-0.0000000426	0.952	↔	2023-02-04	2024-01-26	0.454	↔
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	16	14	88%	-0.946	0.754	↔	2.48	0.192	↔	-2.08	0.166	↔	2023-05-27	2024-04-07	0.373	↔
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	16	12	75%	0.00481	0.622	↔	-0.000467	0.434	↔	0.000364	0.649	↔	2023-01-11	2024-04-07	0.104	↔
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	16	1	6%	0.000000722	0.047	↔	-0.00000187	0.331	↔	0.000000101	0.870	↔	2024-02-13	2024-08-02	0.449	↔
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	16	16	100%	0.000000335	0.605	↔	-0.0000000302	0.922	↔	-0.000000749	0.333	↔	2023-02-05	2024-10-14	0.301	↔
20_3_5_111	MW-10	Part 115	Copper	mg/L	16	13	81%	-0.00000487	0.446	↔	0.00000449	0.475	↔	-0.000000506	0.201	↔	2023-02-17	2023-05-23	0.237	↔
20_3_5_114	MW-10	Part 115	Iron	mg/L	16	0	0%	0.0307	0.048	↔	-0.0486	0.442	↔	0.00392	0.092	↔	2023-04-25	2023-07-18	0.484	↔
20_3_5_119	MW-10	Part 115	Nickel	mg/L	16	7	44%	0.00000296	0.304	↔	-0.00000228	0.409	↔	0.000000403	0.521	↔	2023-05-22	2024-01-17	0.313	↔
20_3_5_123	MW-10	Part 115	Silver	mg/L	16	16	100%	0.00000196	0.605	↔	-0.000000162	0.187	↔	0.000000140	0.905	↔	2023-02-05	2025-04-12	0.270	↔
21_2_3_105	MW-11	Appendix III	Boron	mg/L	16	0	0%	-0.0692	0.016	↔	0.0683	0.188	↔	-0.00590	0.204	↔	2023-05-03	2023-09-04	0.585	↔
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	16	0	0%	1.33	0.155	↔	-0.210	0.206	↔	0.230	0.478	↔	2023-03-14	2024-09-20	0.347	↔
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	16	0	0%	-0.00653	0.026	↔	0.00621	0.251	↔	-0.000551	0.257	↔	2023-05-06	2023-09-21	0.560	↔
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	16	12	75%	-0.000000441	0.632	↔	-0.0000000233	0.983	↔	-0.000000131	0.893	↔	2023-10-23	2024-09-08	0.124	↔
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	-0.0000121	0.261	↔	0.000000620	0.599	↔	0.00000346	0.729	↔	2023-04-04	2025-02-25	0.319	↔
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	16	0	0%	-0.00391	0.033	↔	0.00228	0.166	↔	-0.000272	0.457	↔	2023-05-03	2023-10-24	0.509	↔
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	16	13	81%	-0.000000502	0.696	↔	0.000000468	0.264	↔	-0.000000374	0.147	↔	2023-03-31	2024-04-06	0.313	↔
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	16	14	88%	-0.00000122	0.769	↔	-0.000000224	0.846	↔	-0.0000000404	0.923	↔	2023-03-13	2024-01-26	0.136	↔
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.00000204	0.303	↔	0.0000118	0.888	↔	-0.000000214	0.943	↔	2023-05-22	2023-07-29	0.236	↔
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000118	0.336	↔	-0.00000446	0.643	↔	0.00000132	0.790	↔	2024-04-07	2024-11-01	0.192	↔
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00653	0.026	↔	0.00621	0.251	↔	-0.000551	0.257	↔	2023-05-06	2023-09-21	0.560	↔
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16	3	19%	-0.000210	0.368	↔	-0.00000184	0.943	↔	0.0000664	0.762	↔	2023-04-10	2025-04-01	0.276	↔
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	16	0	0%	-0.00109	0.028	↔	0.00114	0.216	↔	-0.0000820	0.315	↔	2023-05-08	2023-08-17	0.518	↔
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	16	13	81%	0.950	0.067	↔	-1.94	0.614	↔	-0.180	0.927	↔	2024-04-07	2024-11-23	0.384	↔
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	15	4	27%	0.000181	0.908	↔	-0.00204	0.505	↔	0.000401	0.745	↔	2023-08-08	2024-06-12	0.436	↔
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16	3	19%	-0.000000484	0.488	↔	0.00000160	0.502	↔	-0.000000670	0.023	↔	2023-08-03	2024-02-12	0.481	↔
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	16	15	94%	0.00000401	0.110	↔	-0.00000106	0.311	↔	-0.0000000620	0.750	↔	2023-02-08	2023-08-11	0.421	↔
21_2_5_114	MW-11	Part 115	Iron	mg/L	16	0	0%	-0.0654	0.126	↔	0.0174	0.330	↔	0.00119	0.722	↔	2023-03-03	2023-10-23	0.536	↔
21_2_5_119	MW-11	Part 115	Nickel	mg/L	16	0	0%	-0.00000265	0.211	↔	0.00000225	0.774	↔	-0.000000655	0.929	↔	2023-04-18	2024-04-07	0.244	↔
21_2_5_123	MW-11	Part 115	Silver	mg/L	16	14	88%	0.000000171	0.958	↔	0.000000653	0.847	↔	-0.000000128	0.149	↔	2023-01-13	2023-04-17	0.211	↔
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	16	13	81%	0.00000240	0.128	↔	-0.00000489	0.290	↔	0.00000171	0.731	↔	2024-04-06	2024-12-05	0.332	↔
21_2_5_129	MW-11	Part 115	Zinc	mg/L	16	4	25%	-0.000437	0.200	↔	-0.0000802	0.649	↔	0.0000584	0.272	↔	2023-03-14	2023-10-29	0.417	↔
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0110	0.295	↔	0.0244	0.765	↔	-0.0479	0.283	↔	2024-04-22	2025-02-16	0.207	↔
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	16	0	0%	-0.00402	0.054	↔	0.000261	0.439	↔	-0.000213	0.368	↔	2023-02-07	2024-02-13	0.484	↔
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	16	0	0%	-0.00000188	0.039	↔	0.00000209	0.024	↔	-0.00000594	0.072	↔	2023-12-10	2025-02-26	0.643	↔
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00402	0.054	↔	0.000261	0.439	↔	-0.000213	0.368	↔	2023-02-07	2024-02-13	0.484	↔
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	16	6	38%	-0.000000111	0.755	↔	0.00000157	0.124	↔	-0.000000474	0.347	↔	2024-02-06	2024-08-05	0.495	↔
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	16	0	0%	0.00000963	0.273	↔	-0.00000315	0.341	↔	0.0000235	0.247	↔	2023-06-27	2025-04-12	0.286	↔

(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				
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	0.00265	0.020	↔	-0.00466	0.362	↔	0.000151	0.532	↔	2023-05-23	2023-08-09	0.496	↔
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	16	0	0%	-0.00000312	0.082	↔	0.0000147	0.018	↔	-0.0000198	0.082	↔	2024-06-30	2025-02-26	0.627	↔
22_2_5_111	MW-12	Part 115	Copper	mg/L	16	0	0%	0.00000000599	0.995	↔	0.00000489	0.126	↔	-0.00000687	0.062	↔	2024-02-18	2025-02-25	0.780	↔
22_2_5_114	MW-12	Part 115	Iron	mg/L	16	6	38%	-0.00450	0.071	↔	0.0000214	0.808	↔	0.00180	0.003	↑	2023-01-15	2025-02-18	0.808	↔
22_2_5_123	MW-12	Part 115	Silver	mg/L	16	16	100%	-0.00000000000000000000565	0.053	↔	0.00000000000000000000978	0.846	↔	0.00000000000000000000539	0.785	↔	2023-09-03	2024-06-15	0.470	↔
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	16	6	38%	0.000000222	0.791	↔	0.00000680	0.181	↔	-0.00000375	0.036	↔	2024-04-06	2024-09-08	0.577	↔
28_1_3_105	MW-18	Appendix III	Boron	mg/L	16	0	0%	-0.00170	0.649	↔	0.00502	0.000	↑	0.000516	0.580	↔	2023-03-30	2024-04-10	0.937	↔
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	16	0	0%	-0.908	0.003	↓	1.43	0.098	↔	-0.155	0.101	↔	2023-07-22	2023-11-10	0.701	↔
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0814	0.204	↔	0.00939	0.184	↔	-0.0148	0.802	↔	2023-03-15	2025-03-03	0.312	↔
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-9.11	0.147	↔	0.361	0.074	↔	-2.30	0.241	↔	2023-02-07	2025-02-26	0.671	↔
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-5.48	0.009	↓	0.224	0.260	↔	-2.21	0.207	↔	2023-03-17	2025-02-26	0.734	↔
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	16	3	19%	0.000000325	0.390	↔	-0.00000111	0.617	↔	0.000000155	0.826	↔	2024-02-13	2024-08-18	0.176	↔
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	16	7	44%	0.000000758	0.356	↔	-0.00000228	0.562	↔	-0.000000977	0.612	↔	2023-05-27	2023-08-08	0.400	↔
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	16	14	88%	0.000000231	0.782	↔	-0.000000353	0.943	↔	0.000000372	0.352	↔	2023-05-22	2024-06-02	0.237	↔
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	16	0	0%	-0.0000283	0.002	↓	-0.00000115	0.596	↔	-0.000000876	0.507	↔	2023-04-17	2024-03-09	0.916	↔
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	16	10	62%	0.00000452	0.669	↔	-0.000000687	0.189	↔	0.000000443	0.722	↔	2023-02-07	2024-10-05	0.286	↔
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	16	0	0%	-0.000223	0.196	↔	0.000113	0.289	↔	-0.00000218	0.849	↔	2023-03-08	2023-06-27	0.334	↔
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	0.00351	0.149	↔	-0.00150	0.229	↔	0.000122	0.733	↔	2023-04-17	2023-12-24	0.478	↔
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	16	16	100%	0.00000211	0.705	↔	-0.000000169	0.437	↔	0.0000000187	0.987	↔	2023-02-07	2025-02-18	0.158	↔
28_1_5_114	MW-18	Part 115	Iron	mg/L	16	0	0%	-0.0385	0.001	↓	0.0238	0.180	↔	-0.00125	0.424	↔	2023-04-30	2023-09-08	0.755	↔
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.220	0.010	↔	-0.164	0.115	↔	0.0355	0.587	↔	2025-02-23	2023-04-30	0.829	↔
29_1_3_120	MW-19	Appendix III	pH (field)	su	16	0	0%	0.00120	0.330	↔	-0.000724	0.725	↔	-0.0000457	0.896	↔	2023-05-22	2024-01-25	0.214	↔
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	-6.05	0.433	↔	0.169	0.841	↔	-0.216	0.560	↔	2023-02-07	2024-01-15	0.396	↔
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	16	16	100%	0.000000400	0.187	↔	-0.00000115	0.495	↔	0.0000000981	0.859	↔	2024-02-13	2024-07-29	0.254	↔
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	16	5	31%	-0.00000106	0.202	↔	0.000000290	0.758	↔	-0.000000122	0.885	↔	2023-10-02	2024-07-23	0.317	↔
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	16	1	6%	-0.000000979	0.008	↓	0.00000744	0.004	↑	-0.00000655	0.020	↔	2024-09-26	2025-03-03	0.775	↔
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	16	16	100%	0.0000119	0.448	↔	-0.00000169	0.160	↔	0.000000438	0.630	↔	2023-01-31	2024-03-16	0.380	↔
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	16	0	0%	-0.00000733	0.192	↔	0.0000486	0.017	↔	-0.0000823	0.034	↔	2024-06-22	2025-03-30	0.706	↔
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	16	11	69%	-0.00000156	0.292	↔	0.000000151	0.837	↔	-0.000000241	0.913	↔	2023-07-31	2024-12-01	0.245	↔
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	16	16	100%	0.00000753	0.332	↔	-0.000000738	0.655	↔	0.000000110	0.667	↔	2023-01-06	2023-08-06	0.152	↔
29_1_5_111	MW-19	Part 115	Copper	mg/L	16	13	81%	0.0000115	0.172	↔	-0.00000496	0.227	↔	0.000000170	0.439	↔	2023-01-20	2023-05-07	0.426	↔
29_1_5_114	MW-19	Part 115	Iron	mg/L	16	0	0%	-0.0349	0.114	↔	0.0597	0.173	↔	-0.0117	0.009	↓	2023-05-02	2023-10-23	0.717	↔
29_1_5_119	MW-19	Part 115	Nickel	mg/L	16	1	6%	-0.00000876	0.370	↔	0.0000651	0.026	↔	-0.0000277	0.059	↔	2024-01-20	2024-07-18	0.632	↔
29_1_5_123	MW-19	Part 115	Silver	mg/L	16	16	100%	0.00000249	0.207	↔	-0.000000647	0.586	↔	-0.0000000908	0.493	↔	2023-02-10	2023-06-30	0.307	↔
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	16	14	88%	-0.00000253	0.527	↔	0.0000000378	0.980	↔	-0.000000717	0.937	↔	2023-08-02	2025-04-12	0.124	↔
29_1_5_129	MW-19	Part 115	Zinc	mg/L	16	10	62%	-0.00000470	0.225	↔	0.0000106	0.120	↔	-0.0000221	0.264	↔	2024-04-07	2025-04-08	0.395	↔
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	0.120	0.340	↔	-0.0560	0.386	↔	-0.0669	0.062	↔	2023-04-23	2024-03-29	0.701	↔
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	16	0	0%	-0.00829	0.001	↓	-0.0000361	0.608	↔	0.000416	0.289	↔	2023-01-06	2024-12-27	0.828	↔
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	1.13	0.015	↔	-0.700	0.014	↔	0.0121	0.656	↔	2023-02-16	2023-06-29	0.760	↔
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	0.101	0.495	↔	-0.879	0.456	↔	0.662	0.296	↔	2024-04-18	2025-01-15	0.528	↔
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	16	6	38%	0.000000361	0.176	↔	-0.00000000480	0.913	↔	-0.0000000676	0.845	↔	2023-04-18	2025-03-29	0.317	↔
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	16	15	94%	0.00000000877	0.060	↔	-0.0000000176	0.480	↔	0.00000000269	0.739	↔	2024-02-13	2024-09-03	0.372	↔

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear (*continued*)

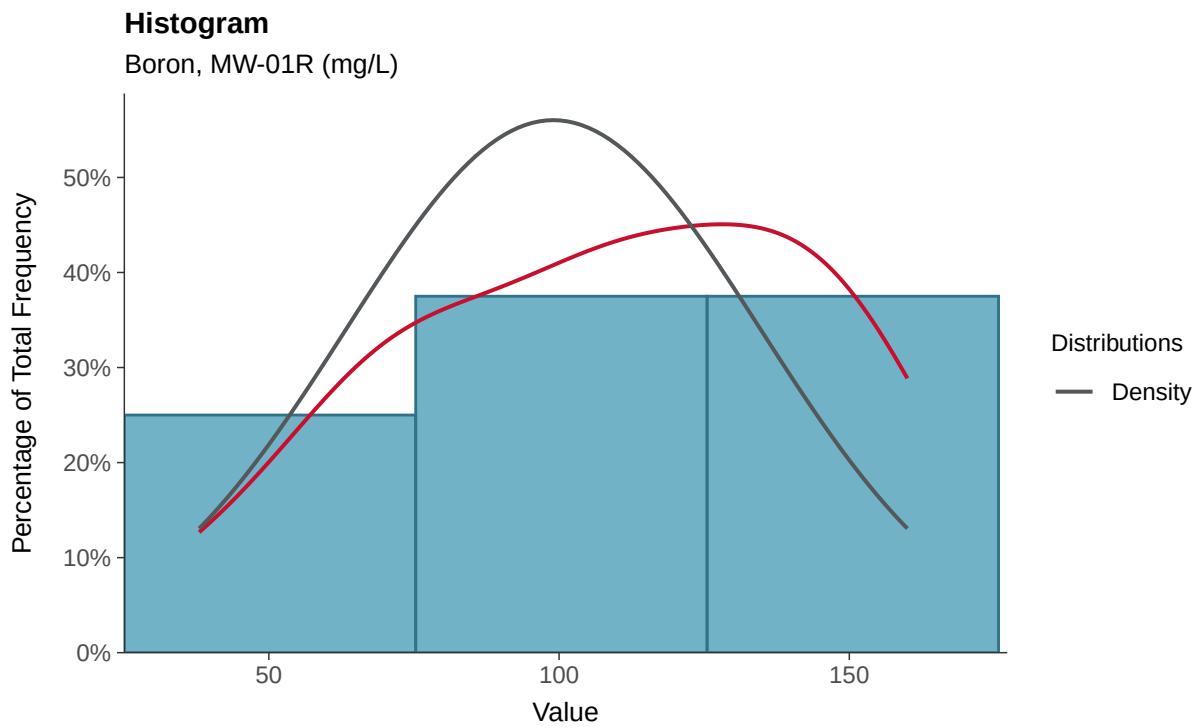
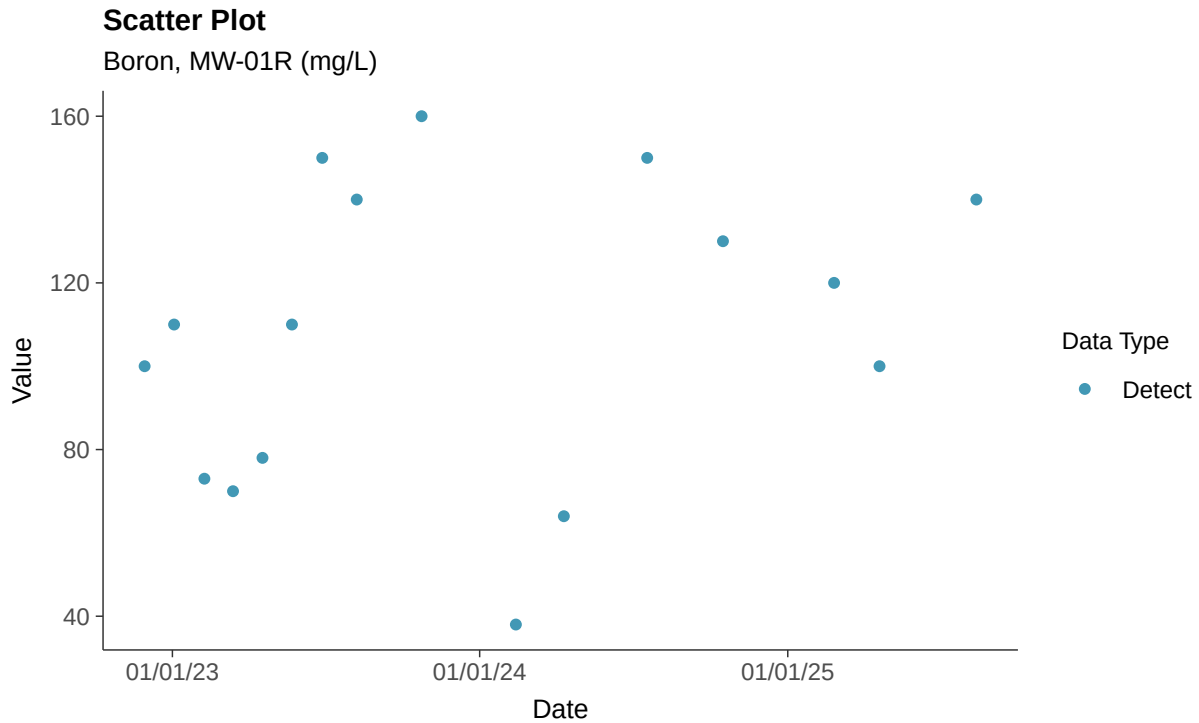
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	16	8	50%	0.000000726	0.280	↔	-0.0000000273	0.606	↔	-0.0000000582	0.825	↔	2023-02-07	2025-02-11	0.222	↔
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000433	0.096	↔	-0.00000276	0.020	↔	-0.000000381	0.073	↔	2023-02-21	2023-09-05	0.883	↔
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	-0.00829	0.001	↓	-0.0000361	0.608	↔	0.000416	0.289	↔	2023-01-06	2024-12-27	0.828	↔
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	16	0	0%	0.00000323	0.487	↔	-0.00000135	0.110	↔	0.00000700	0.275	↔	2023-05-11	2025-04-13	0.341	↔
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	16	0	0%	-0.000358	0.270	↔	0.000154	0.431	↔	-0.0000386	0.094	↔	2023-02-10	2023-06-28	0.391	↔
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	16	14	88%	-0.000000000493	1.000	↔	0.000000000304	1.000	↔	-0.778	0.005	↓	2023-03-24	2024-12-29	0.831	↔
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	16	0	0%	0.000000281	0.870	↔	0.00000550	0.305	↔	-0.00000850	0.165	↔	2024-04-07	2024-12-05	0.349	↔
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	15	7	47%	-0.0150	0.050	↔	0.00197	0.211	↔	-0.000430	0.107	↔	2023-02-05	2023-08-06	0.774	↔
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	16	10	62%	-0.000000636	0.025	↔	0.000000341	0.681	↔	-0.000000165	0.094	↔	2023-07-12	2024-01-10	0.644	↔
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	16	15	94%	0.0000000438	0.060	↔	-0.0000000880	0.480	↔	0.0000000134	0.739	↔	2024-02-13	2024-09-03	0.372	↔
30_1_5_111	MW-20	Part 115	Copper	mg/L	16	2	12%	0.000000236	0.496	↔	0.00000125	0.534	↔	-0.00000185	0.015	↔	2024-03-02	2024-10-15	0.552	↔
30_1_5_114	MW-20	Part 115	Iron	mg/L	16	0	0%	-0.0000732	0.989	↔	-0.0162	0.092	↔	0.0406	0.146	↔	2024-04-07	2025-04-02	0.543	↔
30_1_5_119	MW-20	Part 115	Nickel	mg/L	16	0	0%	0.00000576	0.779	↔	-0.00000586	0.001	↓	0.0000188	0.151	↔	2023-02-25	2025-02-26	0.746	↔
40_1_3_105	MW-30	Appendix III	Boron	mg/L	16	0	0%	0.00927	0.124	↔	-0.0115	0.529	↔	0.0000216	0.968	↔	2023-03-13	2023-06-05	0.426	↔
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	16	0	0%	2.56	0.167	↔	-1.94	0.248	↔	0.527	0.036	↔	2023-03-13	2023-09-06	0.495	↔
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.245	0.036	↔	4.44	0.000	↑	-0.248	0.578	↔	2024-06-22	2025-02-24	0.989	↔
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.416	0.719	↔	1.24	0.689	↔	6.94	0.001	↑	2024-02-11	2024-09-22	0.877	↔
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	16	0	0%	-0.000475	0.046	↔	0.0000419	0.097	↔	-0.000101	0.623	↔	2023-04-01	2025-02-25	0.584	↔
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	16	13	81%	0.00000299	0.345	↔	-0.00000173	0.259	↔	0.000000858	0.317	↔	2023-01-26	2023-04-24	0.300	↔
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.0000482	0.282	↔	0.00000111	0.854	↔	-0.0000102	0.715	↔	2023-03-21	2024-10-16	0.321	↔
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	16	15	94%	0.0000129	0.177	↔	-0.00000483	0.221	↔	0.000000637	0.389	↔	2023-02-23	2023-08-22	0.350	↔
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	16	3	19%	-0.0000172	0.370	↔	0.0000202	0.087	↔	-0.0000542	0.330	↔	2023-09-08	2025-02-25	0.416	↔
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	16	7	44%	-0.00000159	0.314	↔	0.000000360	0.646	↔	-0.00000146	0.538	↔	2023-07-09	2025-02-24	0.181	↔
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	16	16	100%	0.00000306	0.118	↔	-0.00000123	0.474	↔	0.000000178	0.451	↔	2023-04-08	2023-10-22	0.410	↔
40_1_5_111	MW-30	Part 115	Copper	mg/L	16	11	69%	-0.00000115	0.506	↔	0.000000562	0.395	↔	-0.00000236	0.555	↔	2023-07-15	2025-02-25	0.151	↔
40_1_5_119	MW-30	Part 115	Nickel	mg/L	16	3	19%	-0.0000960	0.704	↔	0.0000784	0.180	↔	-0.000289	0.226	↔	2023-05-12	2025-02-24	0.335	↔
40_1_5_123	MW-30	Part 115	Silver	mg/L	16	16	100%	0.00000109	0.447	↔	-0.000000846	0.521	↔	0.0000000440	0.807	↔	2023-04-17	2023-09-17	0.182	↔
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	16	15	94%	-0.00000288	0.355	↔	0.00000381	0.437	↔	-0.00000987	0.213	↔	2023-12-10	2025-02-24	0.266	↔
40_1_5_129	MW-30	Part 115	Zinc	mg/L	16	10	62%	-0.0000364	0.494	↔	0.000169	0.084	↔	-0.000379	0.180	↔	2024-02-16	2025-02-25	0.509	↔
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	16	0	0%	-0.217	0.076	↔	0.263	0.498	↔	-0.0239	0.568	↔	2023-07-17	2023-11-27	0.348	↔
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.467	0.554	↔	-2.65	0.303	↔	0.00115	0.988	↔	2023-04-14	2023-06-08	0.557	↔
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	-0.539	0.265	↔	-0.0379	0.808	↔	0.847	0.150	↔	2023-05-22	2025-01-12	0.454	↔
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	16	0	0%	-0.0000130	0.252	↔	-0.000000457	0.178	↔	0.00000631	0.076	↔	2023-01-05	2025-03-27	0.560	↔
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	16	14	88%	-0.00000000970	0.669	↔	0.000000119	0.105	↔	-0.000000112	0.162	↔	2024-02-14	2024-10-15	0.552	↔
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	-0.0000000322	0.907	↔	0.000000153	0.727	↔	-0.000000384	0.574	↔	2023-11-01	2024-10-15	0.125	↔
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	16	13	81%	0.000000144	0.813	↔	-0.00000160	0.202	↔	0.000000153	0.184	↔	2023-05-21	2023-08-31	0.501	↔
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	16	14	88%	-0.000000000698	1.000	↔	0.000000000322	1.000	↔	-0.795	0.006	↓	2023-02-27	2024-12-27	0.830	↔
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	16	6	38%	0.000000523	0.350	↔	-0.00000142	0.344	↔	0.000000543	0.479	↔	2024-02-11	2024-09-27	0.269	↔
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	16	15	94%	0.0000000164	0.059	↔	-0.0000000326	0.481	↔	0.00000000500	0.738	↔	2024-02-12	2024-09-02	0.374	↔
41_1_5_111	MW-31	Part 115	Copper	mg/L	16	10	62%	0.000000307	0.023	↔	0.00000174	0.060	↔	0.00000111	0.157	↔	2025-04-19	2024-04-15	0.529	↔
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	16	12	75%	0.00000000000246	1.000	↔	0.00000211	0.021	↔	-0.00000128	0.010	↔	2024-07-07	2024-10-28	0.732	↔
41_1_5_129	MW-31	Part 115	Zinc	mg/L	16	9	56%	-0.0000118	0.376	↔	0.0000326	0.139	↔	-0.0000535	0.120	↔	2024-02-08	2025-01-27	0.425	↔

(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				
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	-0.0229	0.014	↔	0.0491	0.061	↔	0.00959	0.723	↔	2024-03-30	2024-10-16	0.672	↔
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	0.317	0.810	↔	-0.162	0.244	↔	0.0802	0.792	↔	2023-02-27	2024-10-12	0.283	↔
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	16	12	75%	0.000000864	0.031	↔	-0.00000168	0.415	↔	0.000000228	0.735	↔	2024-02-12	2024-08-23	0.440	↔
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	0.00000241	0.057	↔	-0.00000468	0.482	↔	0.000000281	0.898	↔	2024-02-12	2024-08-27	0.386	↔
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	16	0	0%	-0.000600	0.439	↔	0.00328	0.019	↔	-0.000483	0.799	↔	2024-02-11	2024-10-16	0.685	↔
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	16	15	94%	0.0000000226	0.060	↔	-0.0000000451	0.478	↔	0.00000000691	0.741	↔	2024-02-12	2024-09-02	0.372	↔
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	-0.00000262	0.580	↔	0.00000452	0.578	↔	-0.00000247	0.094	↔	2023-06-01	2024-02-11	0.314	↔
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	0.00000195	0.163	↔	-0.00000416	0.259	↔	0.000000418	0.821	↔	2024-02-11	2024-08-12	0.354	↔
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	16	0	0%	-0.000409	0.230	↔	0.000833	0.559	↔	-0.0000128	0.800	↔	2023-05-06	2023-07-11	0.230	↔
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	16	14	88%	1.77	0.065	↔	-3.62	0.605	↔	0.281	0.940	↔	2024-04-07	2024-11-25	0.358	↔
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	0.00219	0.078	↔	-0.000956	0.048	↔	0.000565	0.186	↔	2023-04-29	2024-05-04	0.531	↔
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	16	13	81%	-0.00000100	0.528	↔	0.00000163	0.228	↔	-0.000000873	0.138	↔	2023-06-21	2024-02-12	0.325	↔
42_1_5_114	MW-32	Part 115	Iron	mg/L	16	0	0%	-0.00849	0.623	↔	-0.0569	0.448	↔	0.00344	0.210	↔	2023-05-06	2023-08-07	0.714	↔
42_1_5_119	MW-32	Part 115	Nickel	mg/L	16	0	0%	-0.0000204	0.785	↔	0.0000303	0.215	↔	-0.0000189	0.202	↔	2023-04-12	2024-02-12	0.289	↔
42_1_5_129	MW-32	Part 115	Zinc	mg/L	16	0	0%	-0.0000265	0.386	↔	0.000611	0.025	↔	-0.000322	0.027	↔	2024-07-09	2024-11-21	0.672	↔

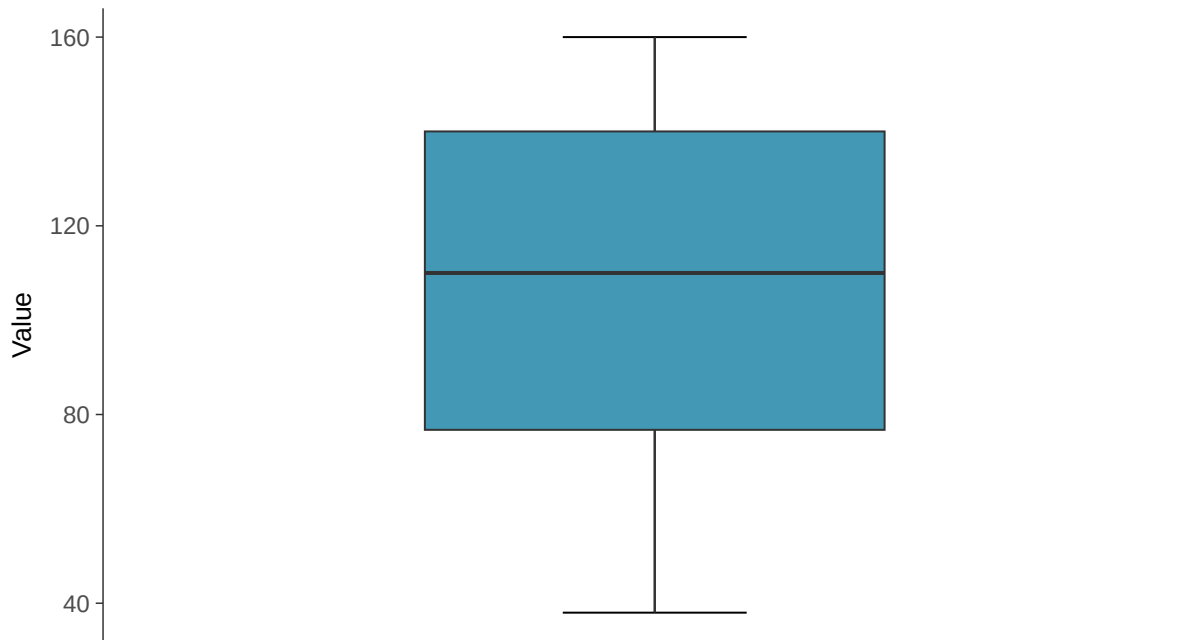
Appendix III: Boron, MW-01R

ID: 11_2_3_105



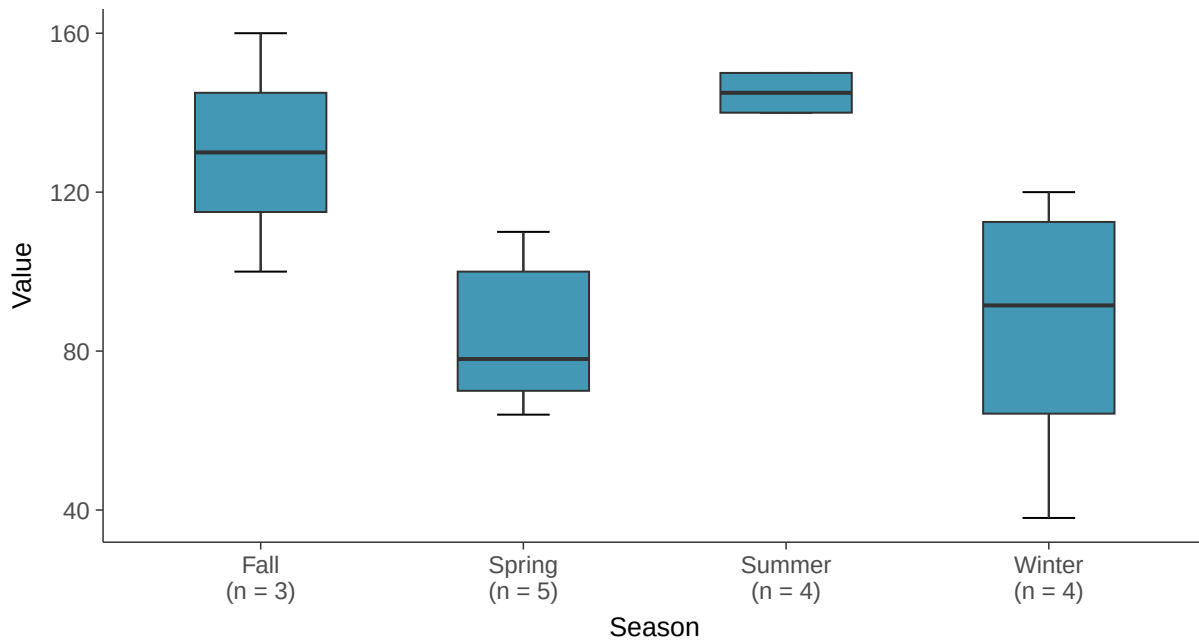
Boxplot

Boron, MW-01R (mg/L)



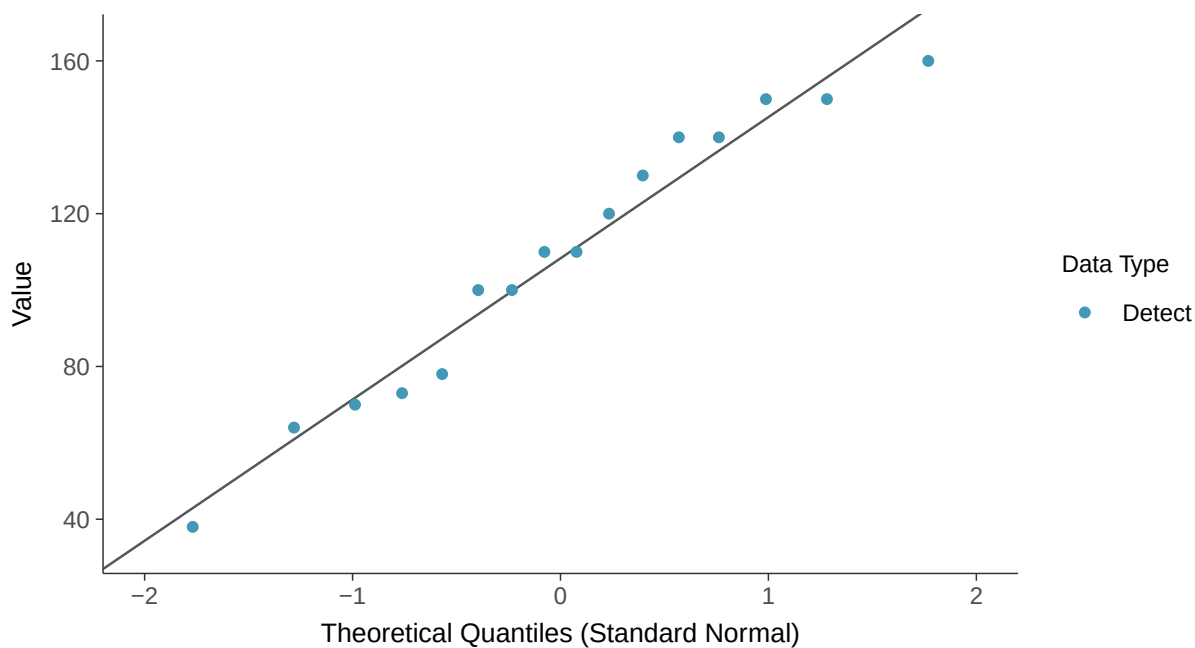
Boxplot by Season

Boron, MW-01R (mg/L)



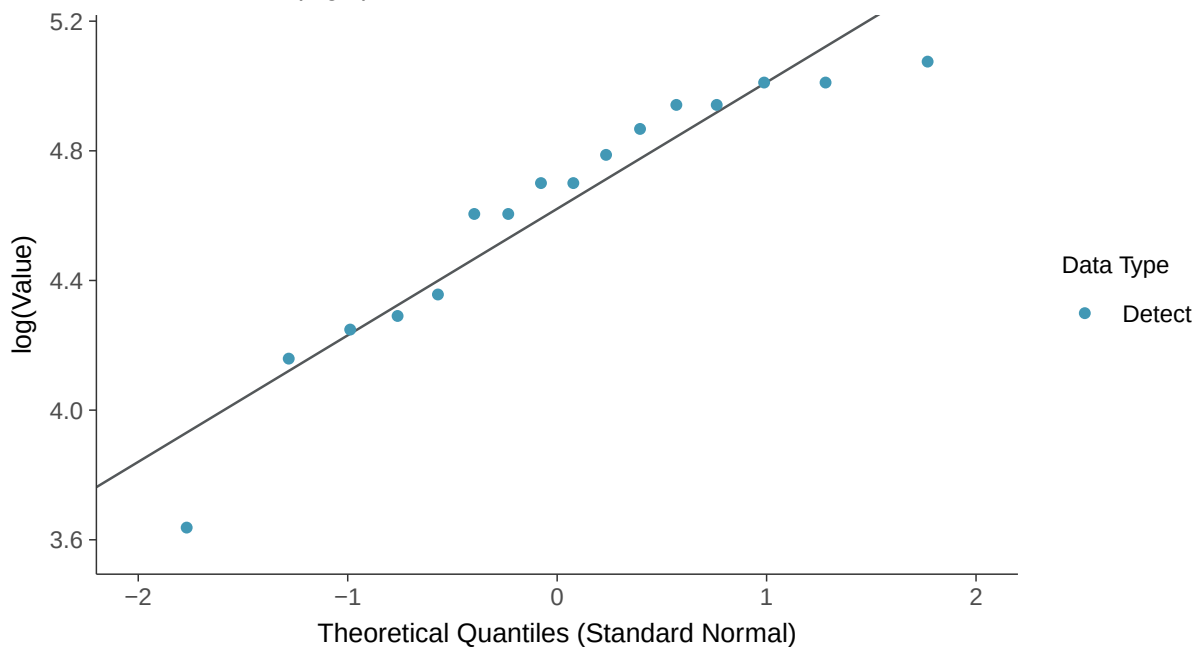
Normal Q-Q plot

Boron, MW-01R (mg/L)



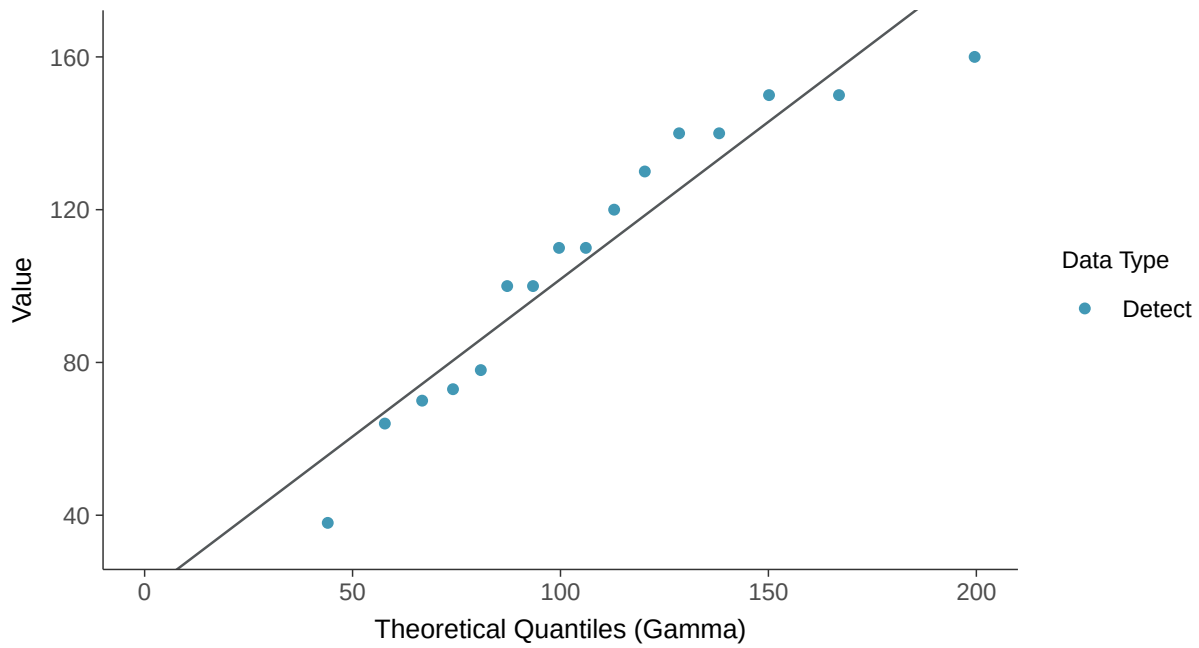
Lognormal Q-Q plot

Boron, MW-01R (mg/L)



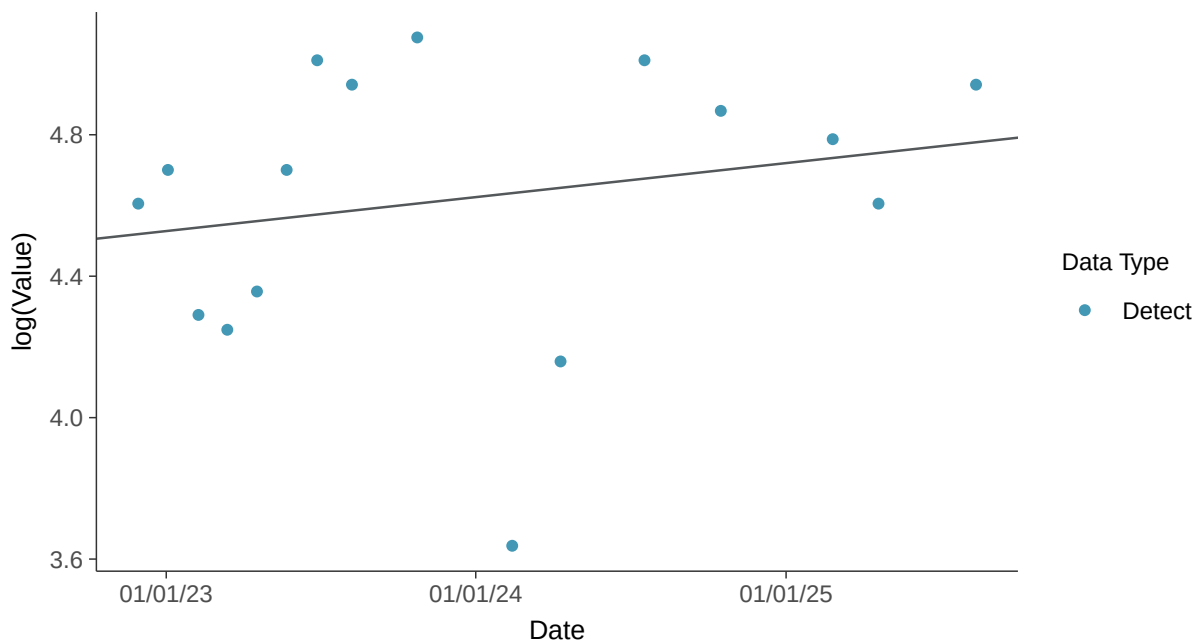
Gamma Q-Q plot

Boron, MW-01R (mg/L)



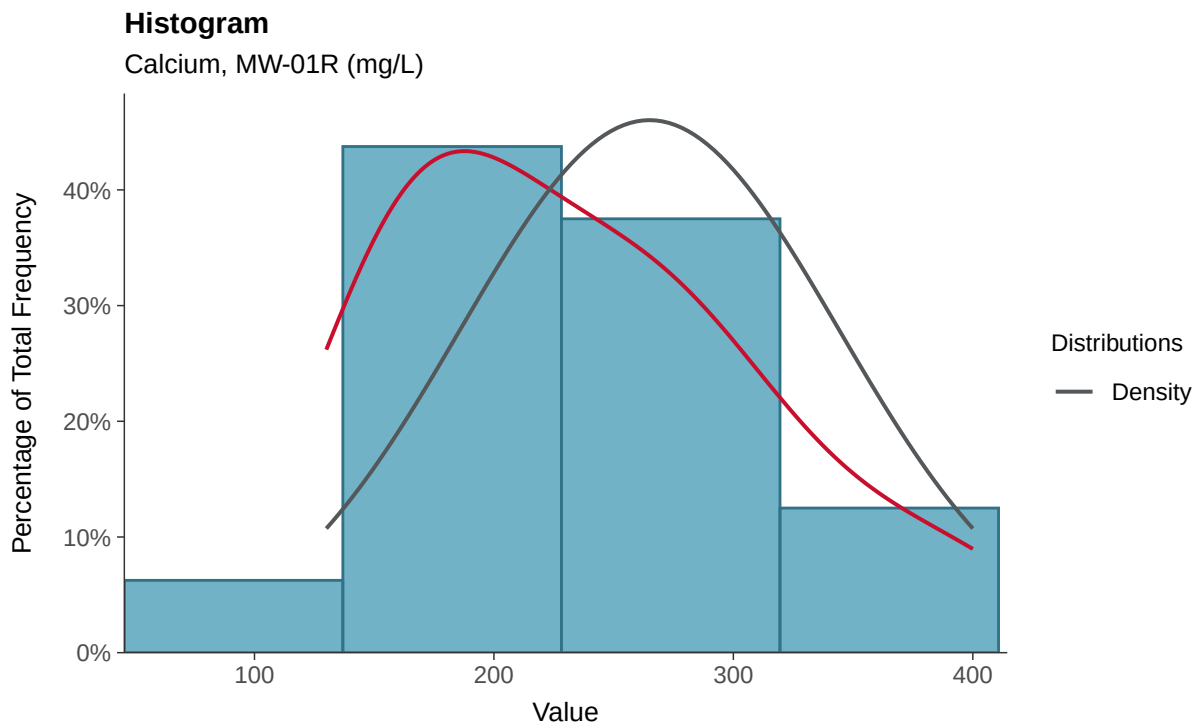
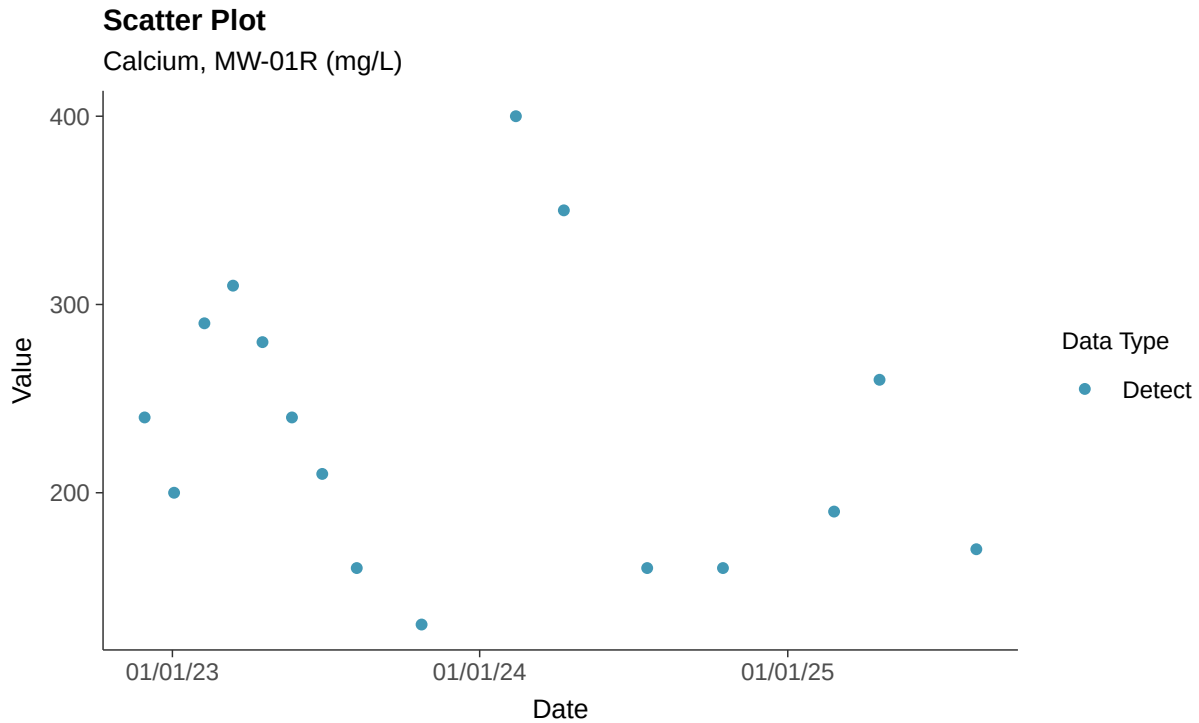
Trend Regression: Lognormal MLE

Boron, MW-01R (mg/L)



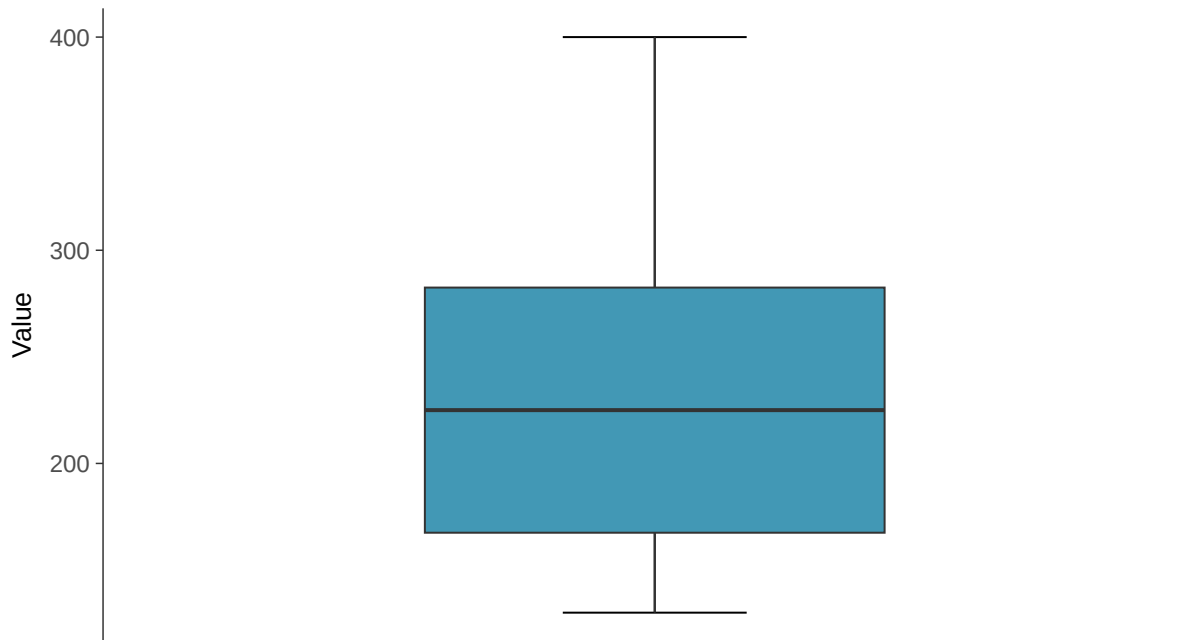
Appendix III: Calcium, MW-01R

ID: 11_2_3_107



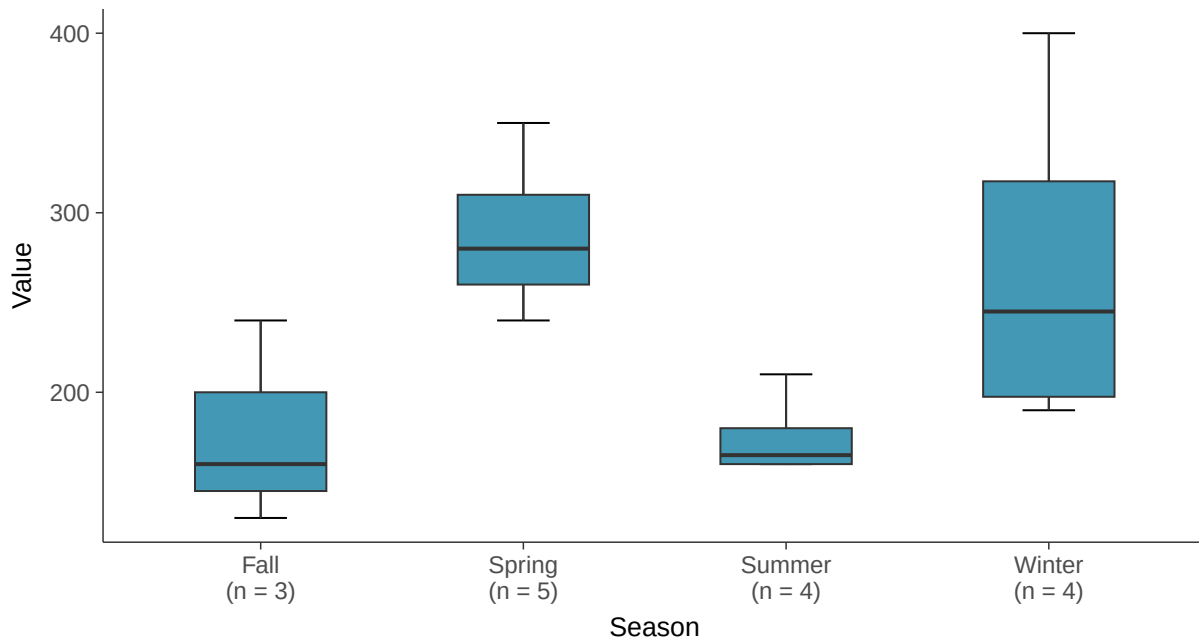
Boxplot

Calcium, MW-01R (mg/L)



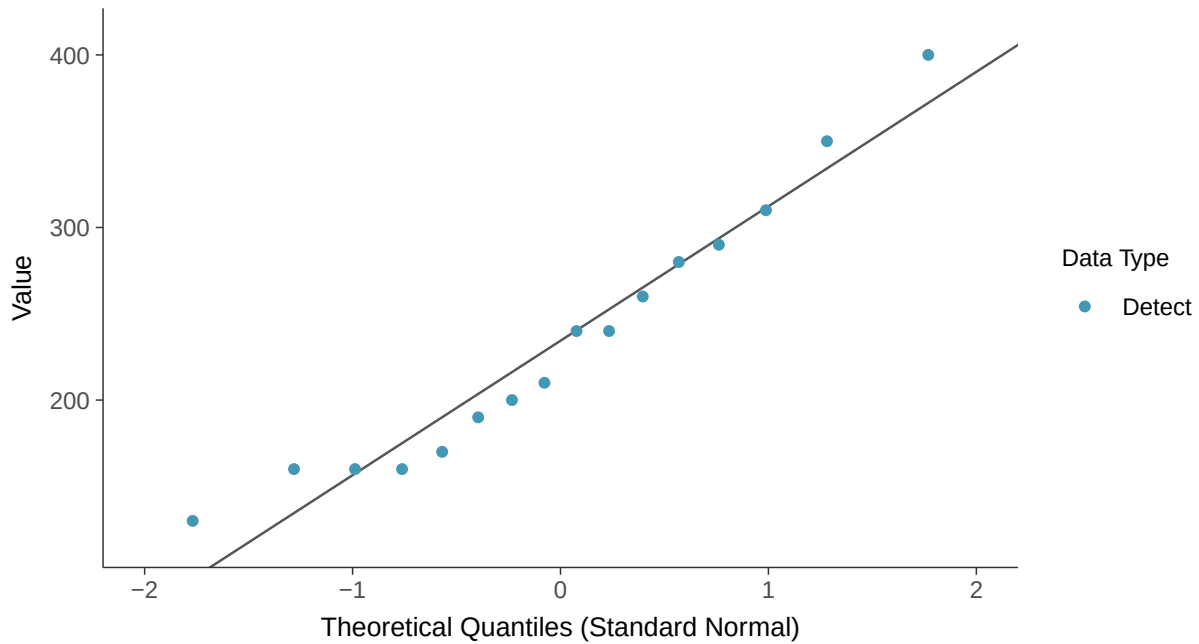
Boxplot by Season

Calcium, MW-01R (mg/L)



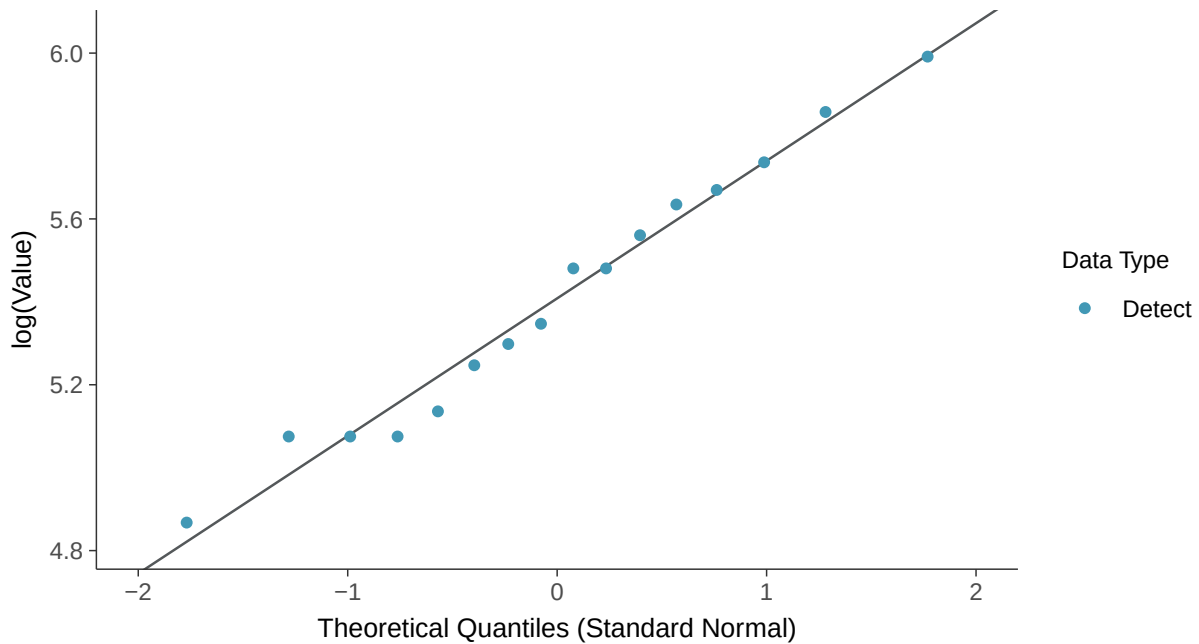
Normal Q-Q plot

Calcium, MW-01R (mg/L)



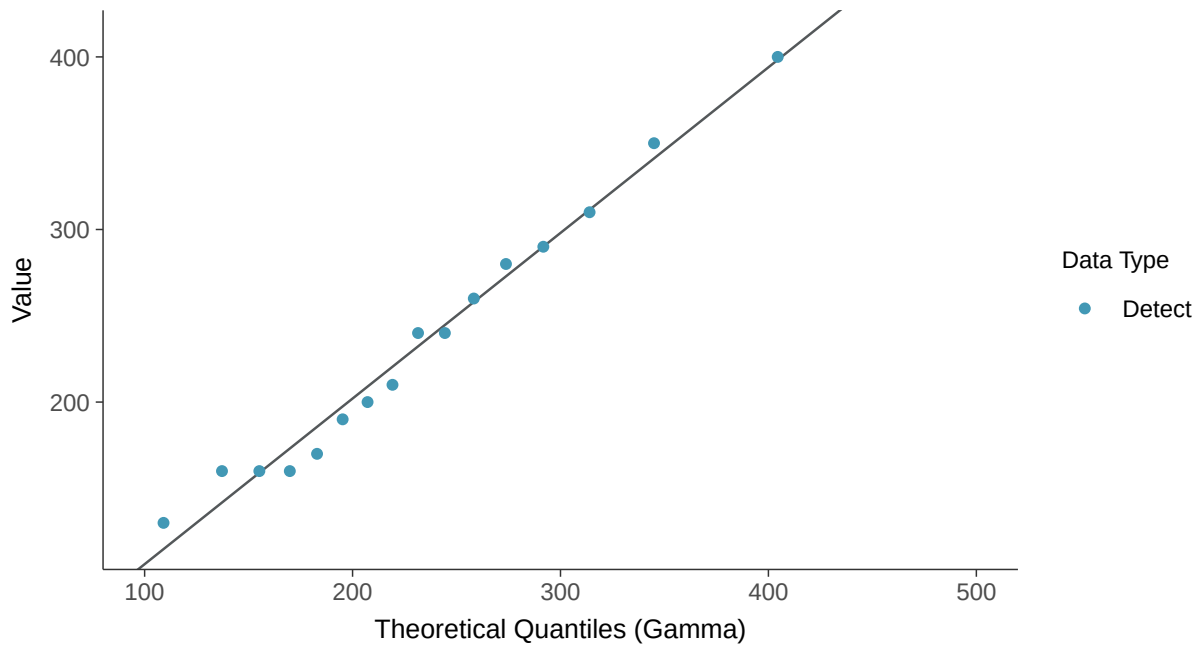
Lognormal Q-Q plot

Calcium, MW-01R (mg/L)



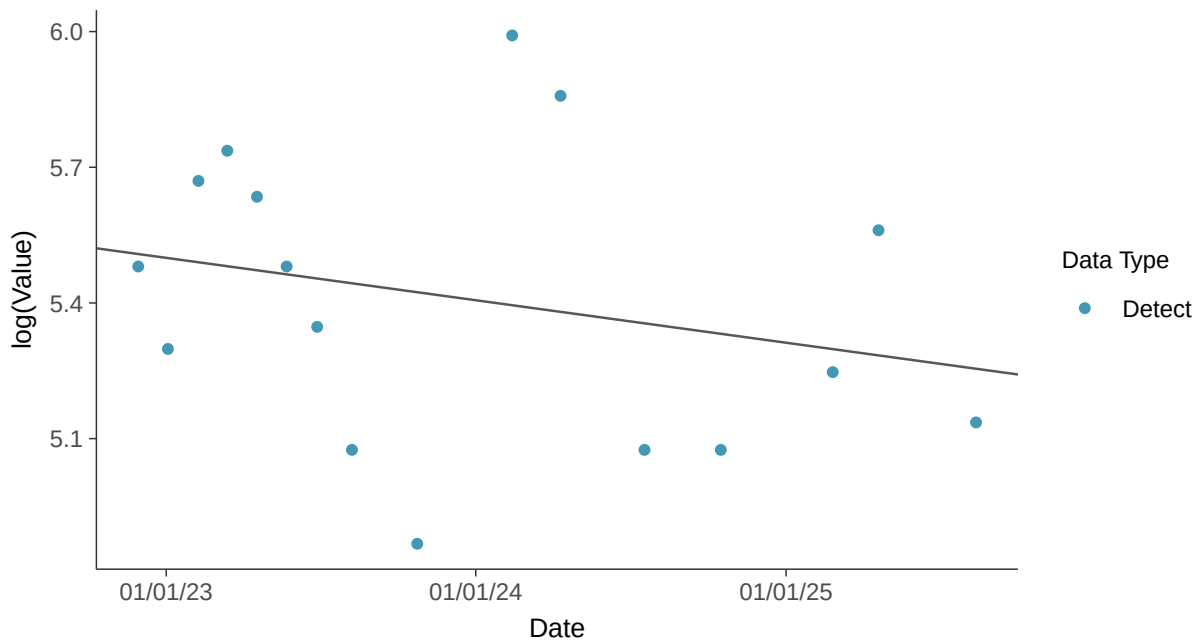
Gamma Q-Q plot

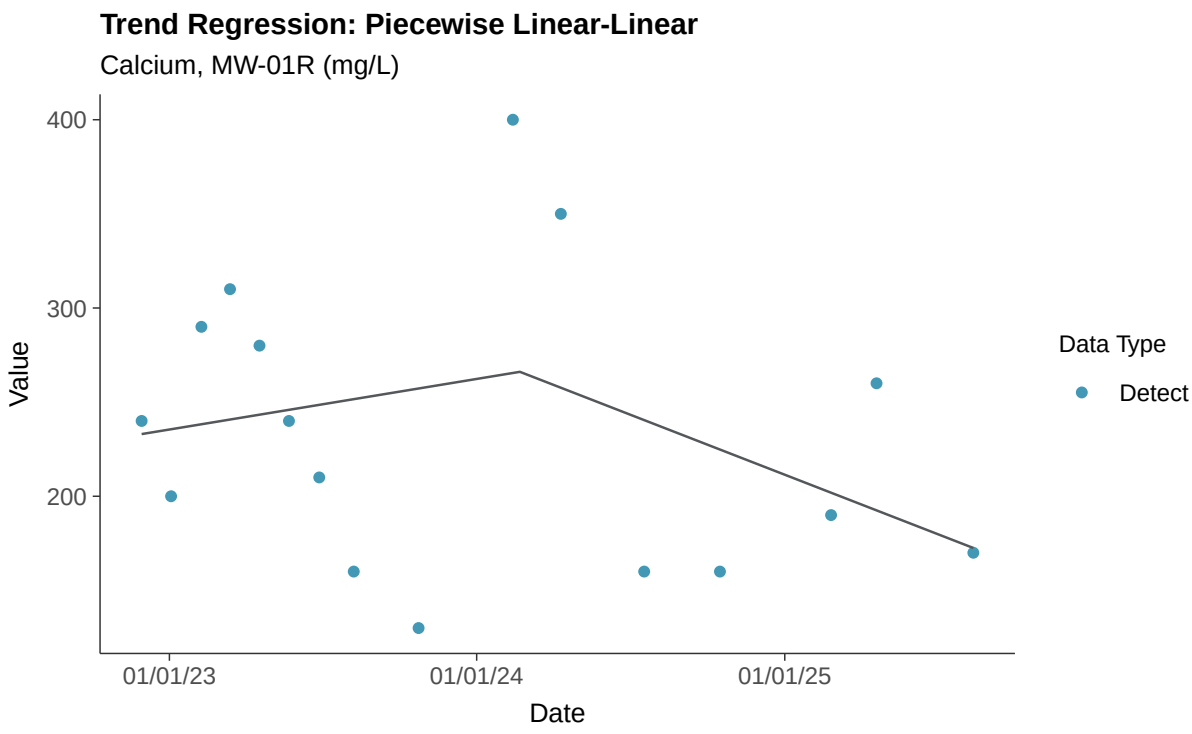
Calcium, MW-01R (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-01R (mg/L)



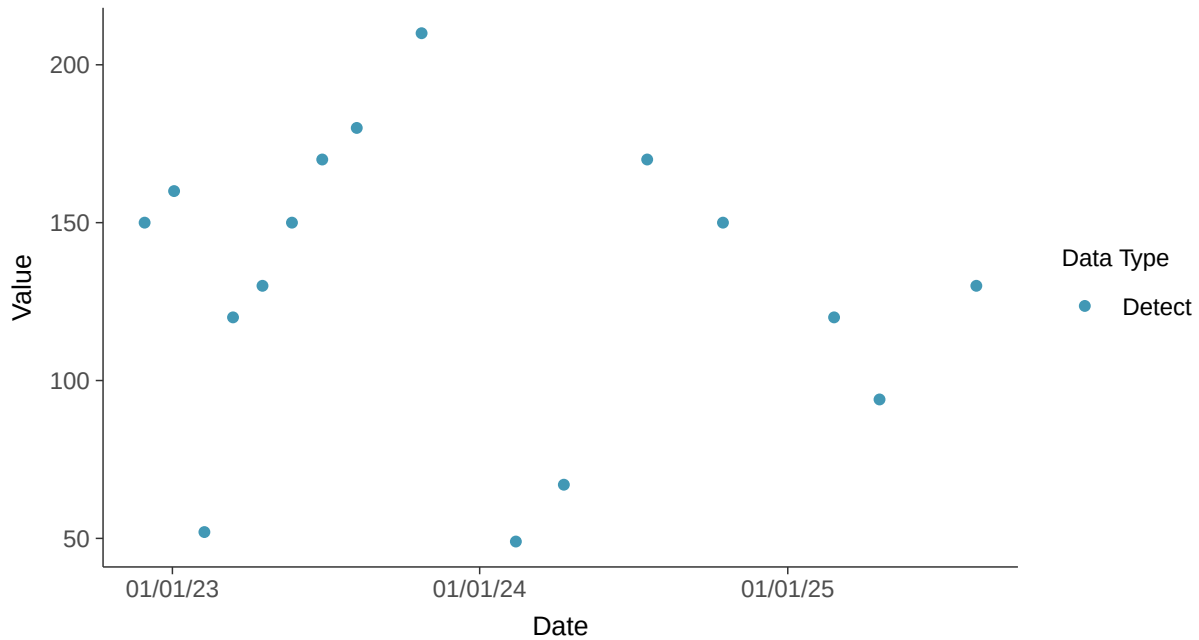


Appendix III: Chloride (as Cl), MW-01R

ID: 11_2_3_108

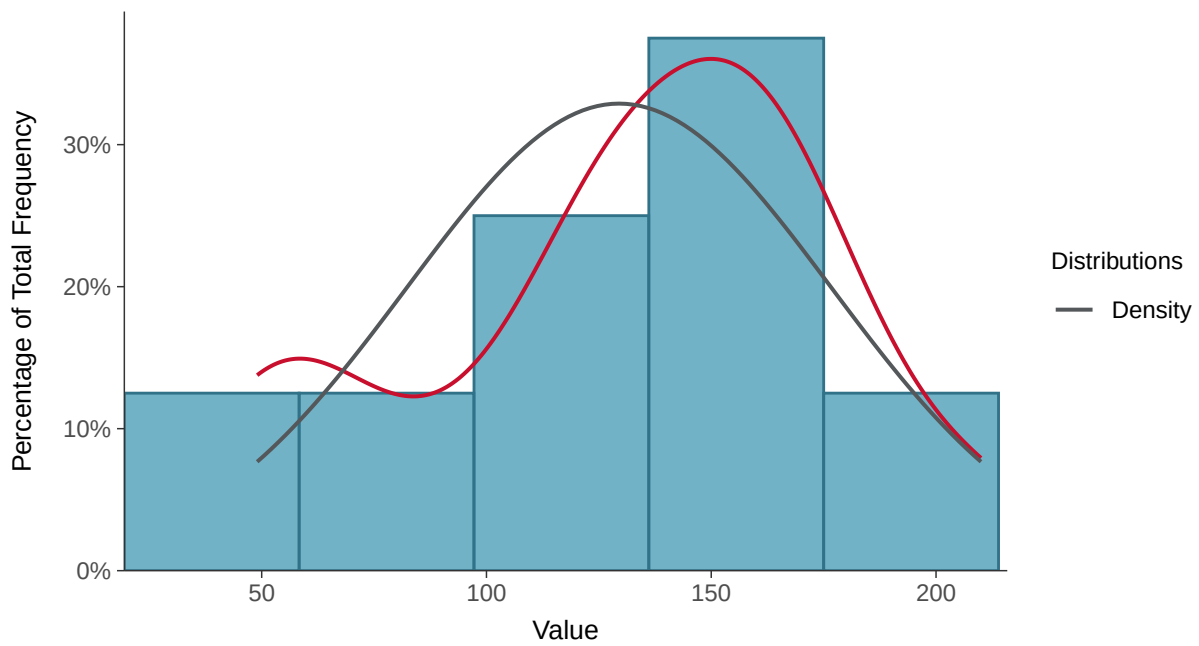
Scatter Plot

Chloride (as Cl), MW-01R (mg/L)



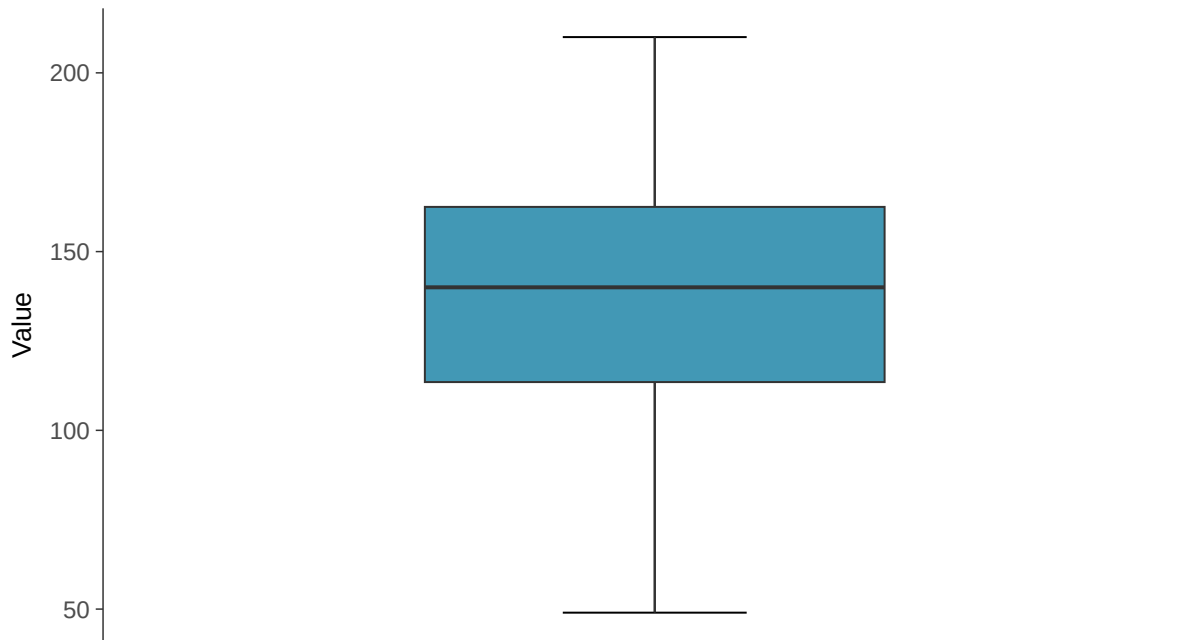
Histogram

Chloride (as Cl), MW-01R (mg/L)



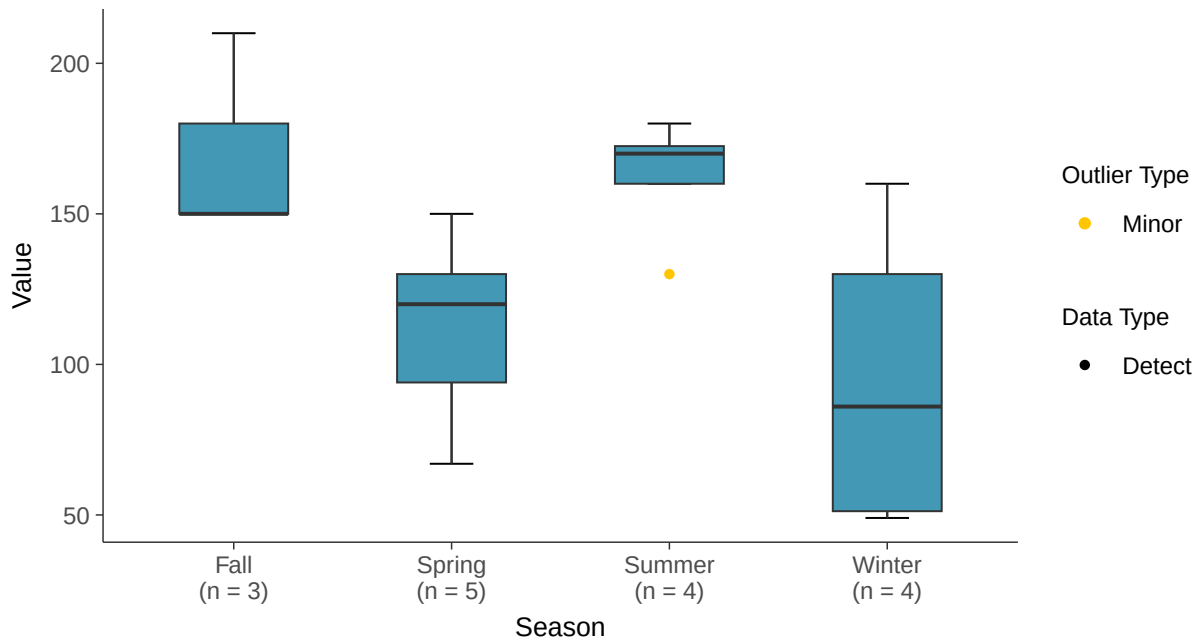
Boxplot

Chloride (as Cl), MW-01R (mg/L)



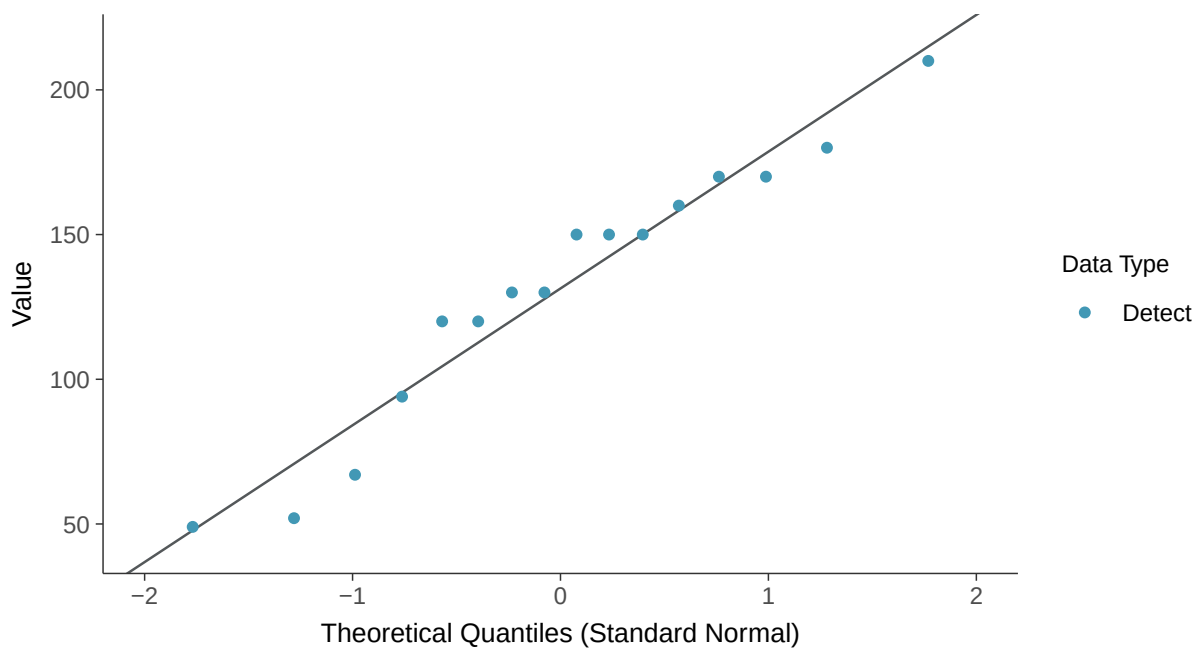
Boxplot by Season

Chloride (as Cl), MW-01R (mg/L)



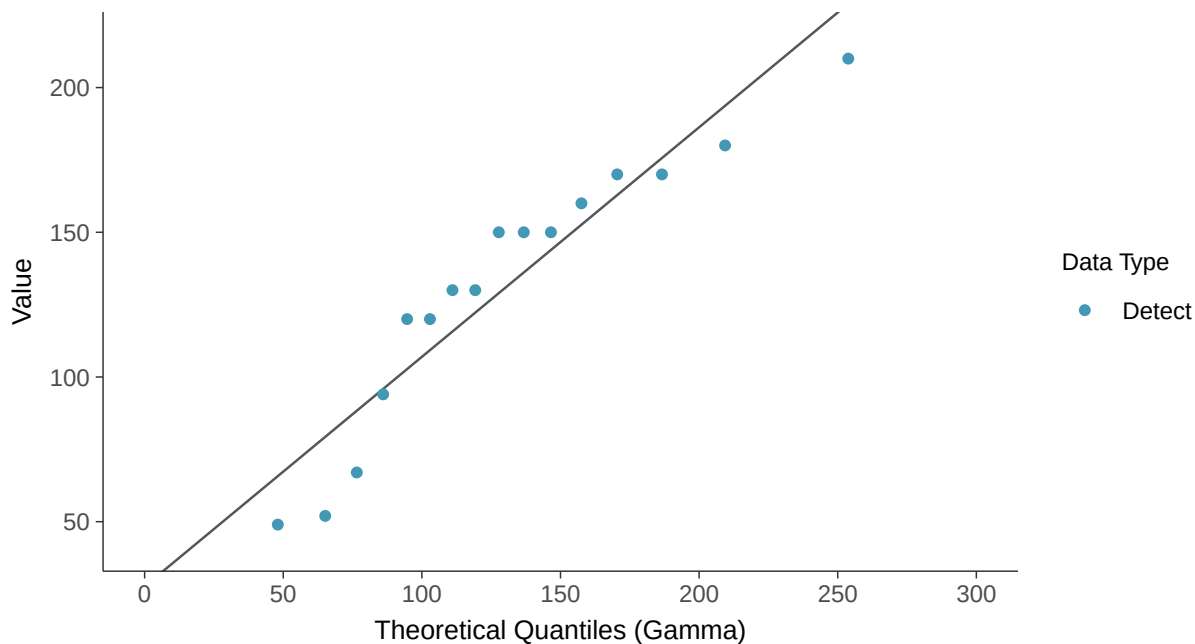
Normal Q-Q plot

Chloride (as Cl), MW-01R (mg/L)



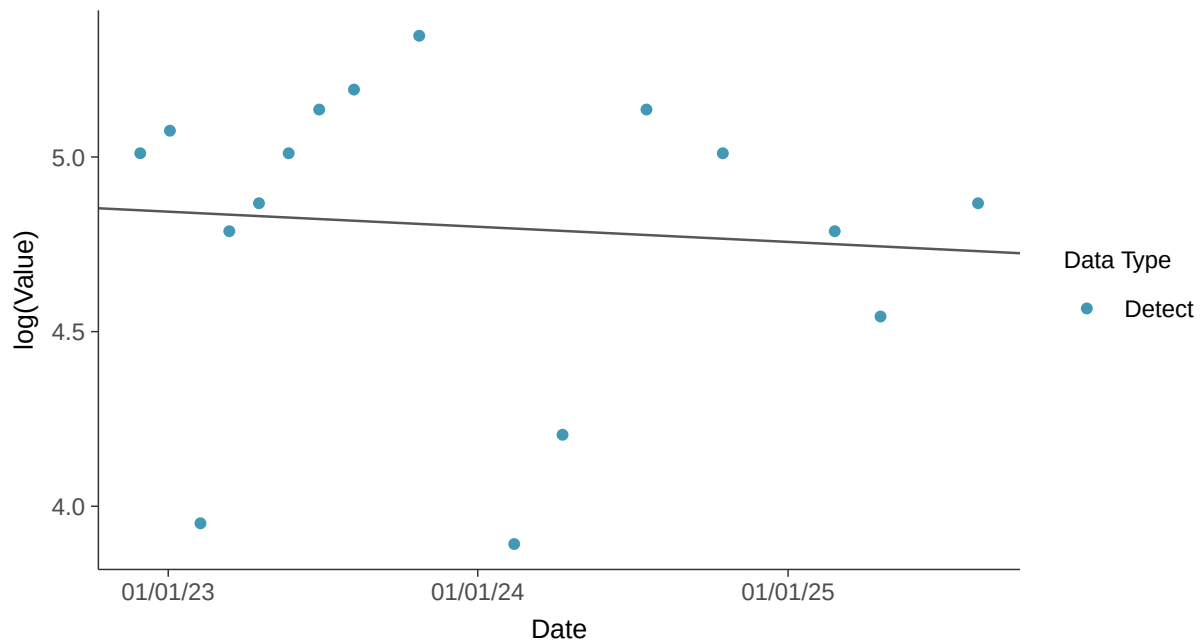
Gamma Q-Q plot

Chloride (as Cl), MW-01R (mg/L)



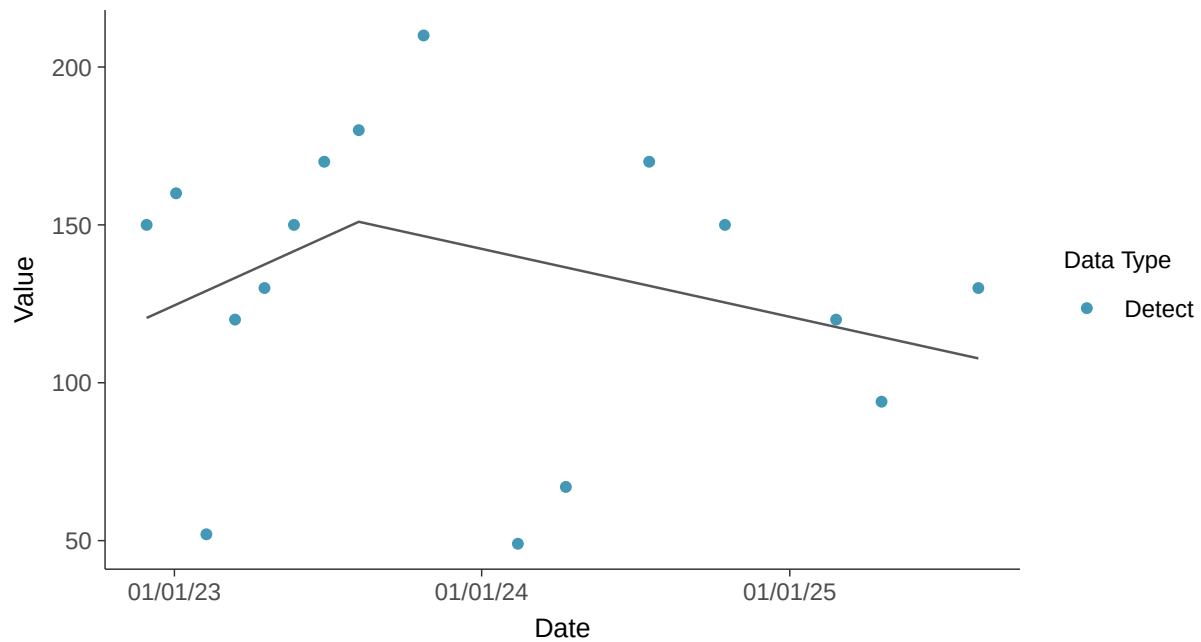
Trend Regression: Lognormal MLE

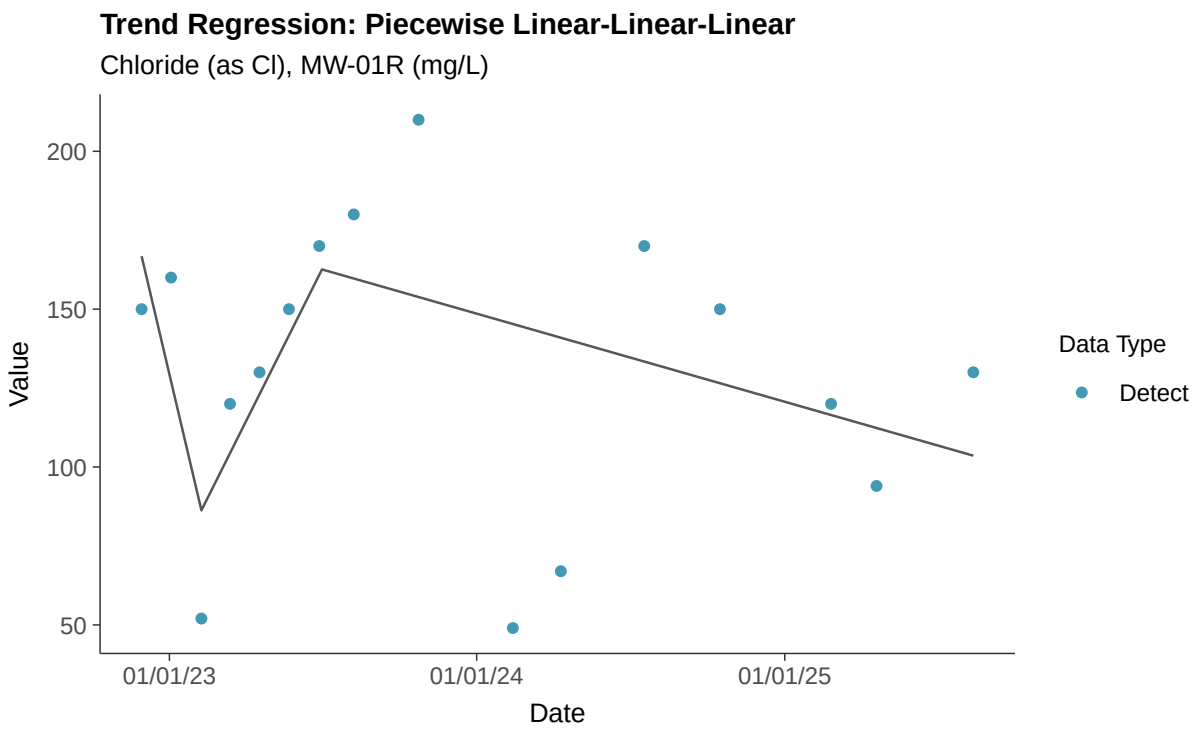
Chloride (as Cl), MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-01R (mg/L)

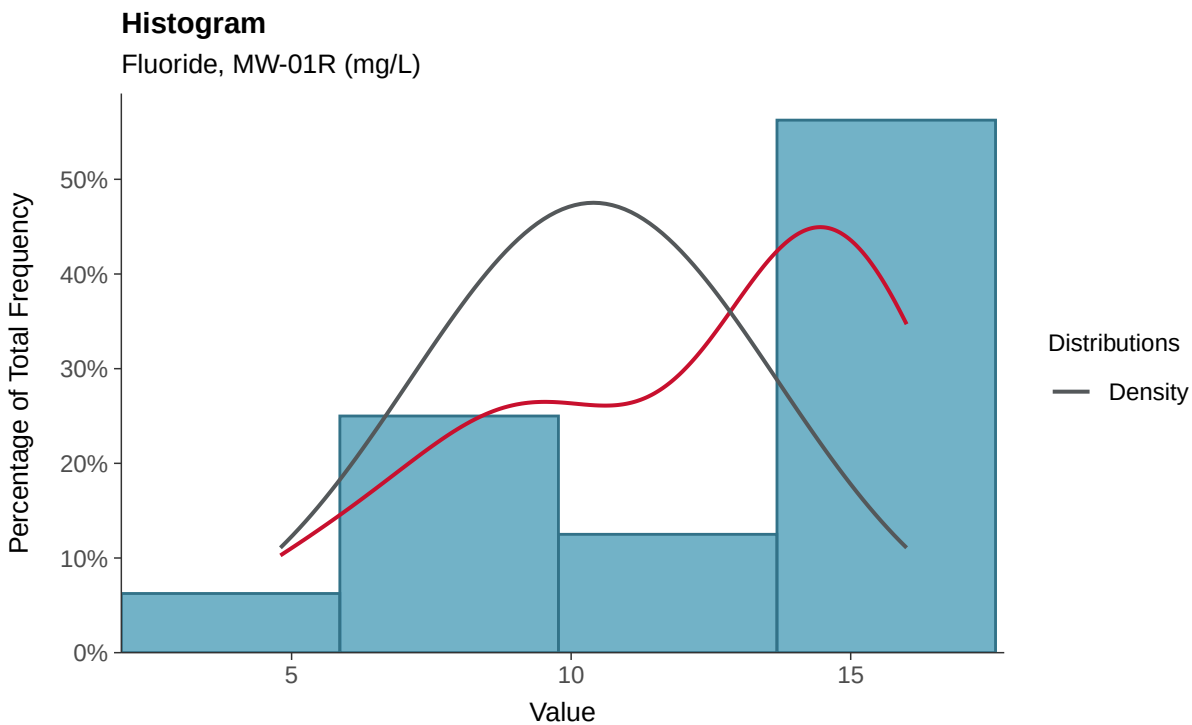
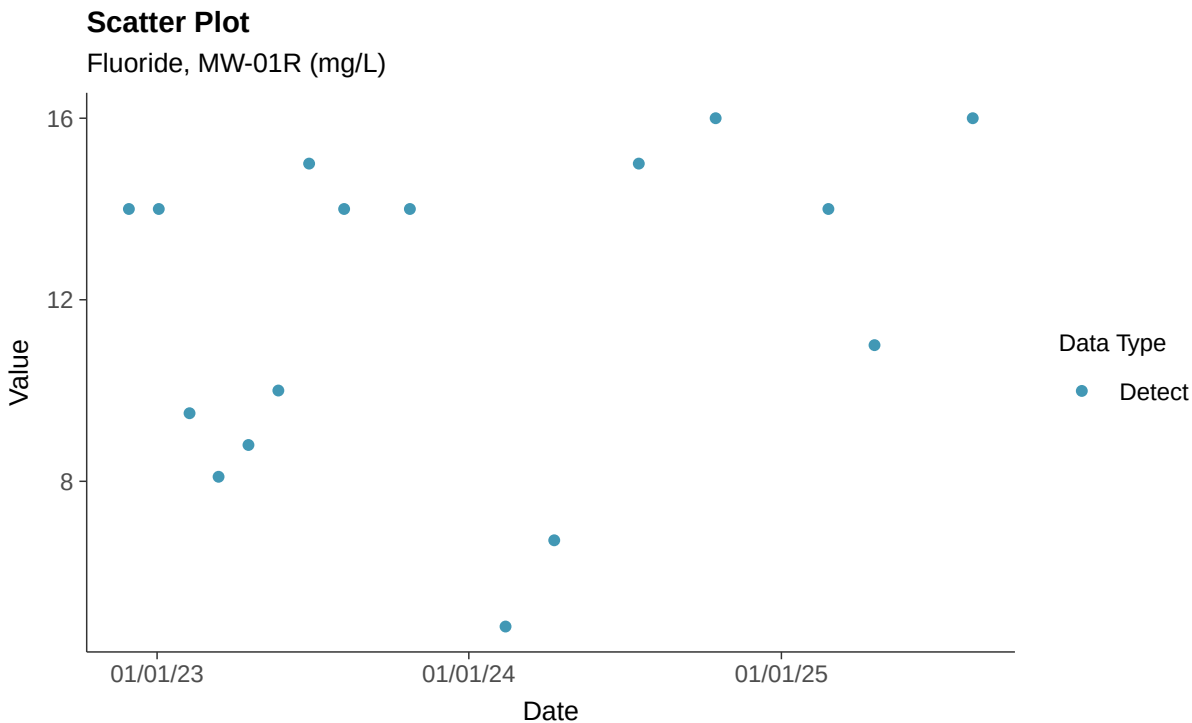






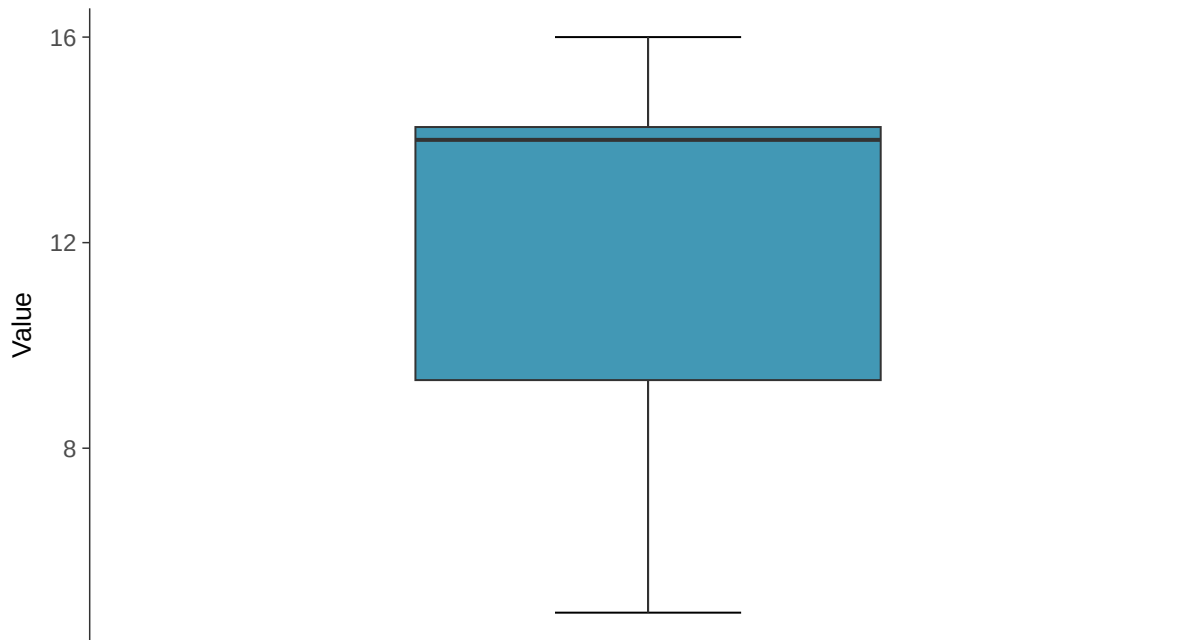
Appendix III: Fluoride, MW-01R

ID: 11_2_3_112



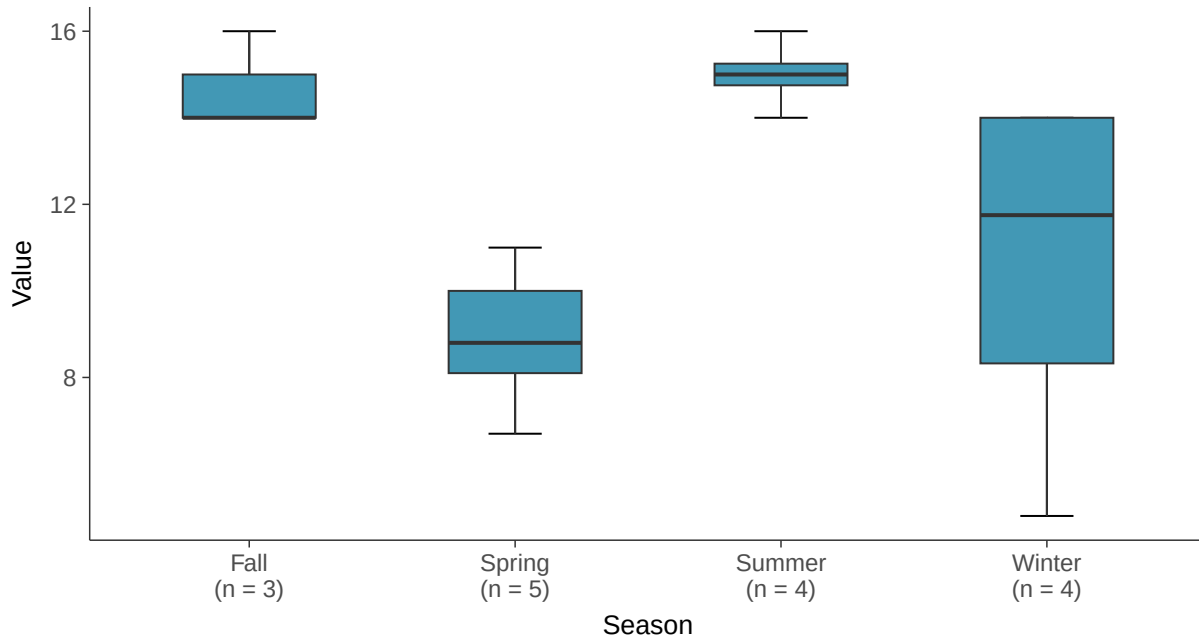
Boxplot

Fluoride, MW-01R (mg/L)



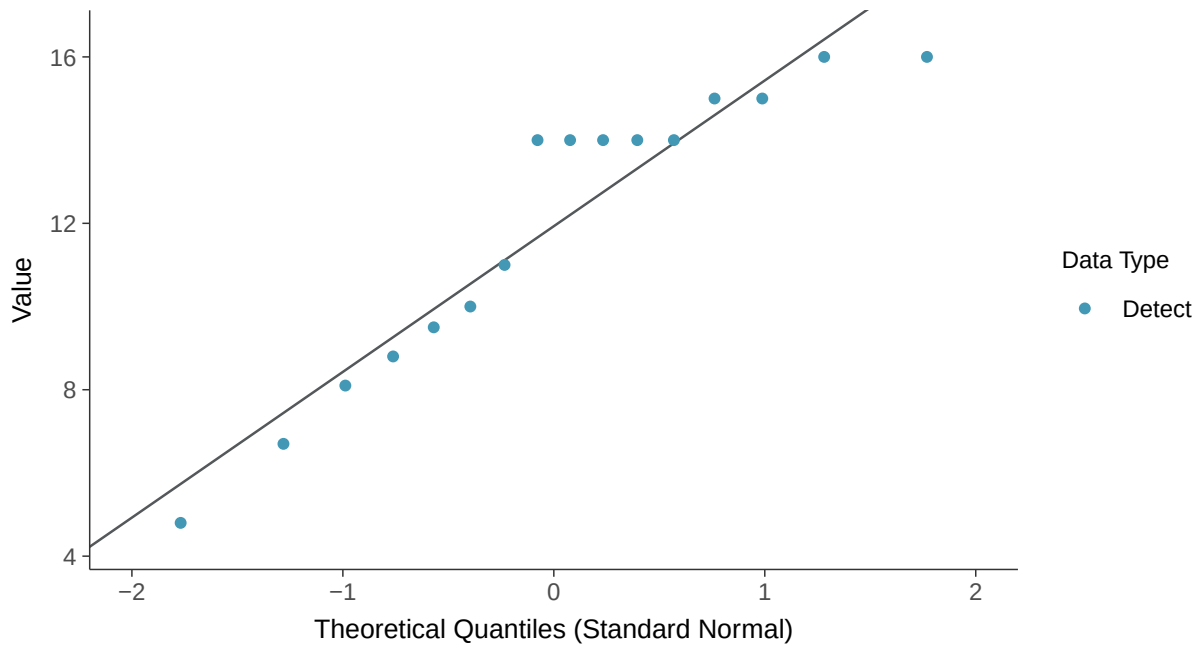
Boxplot by Season

Fluoride, MW-01R (mg/L)



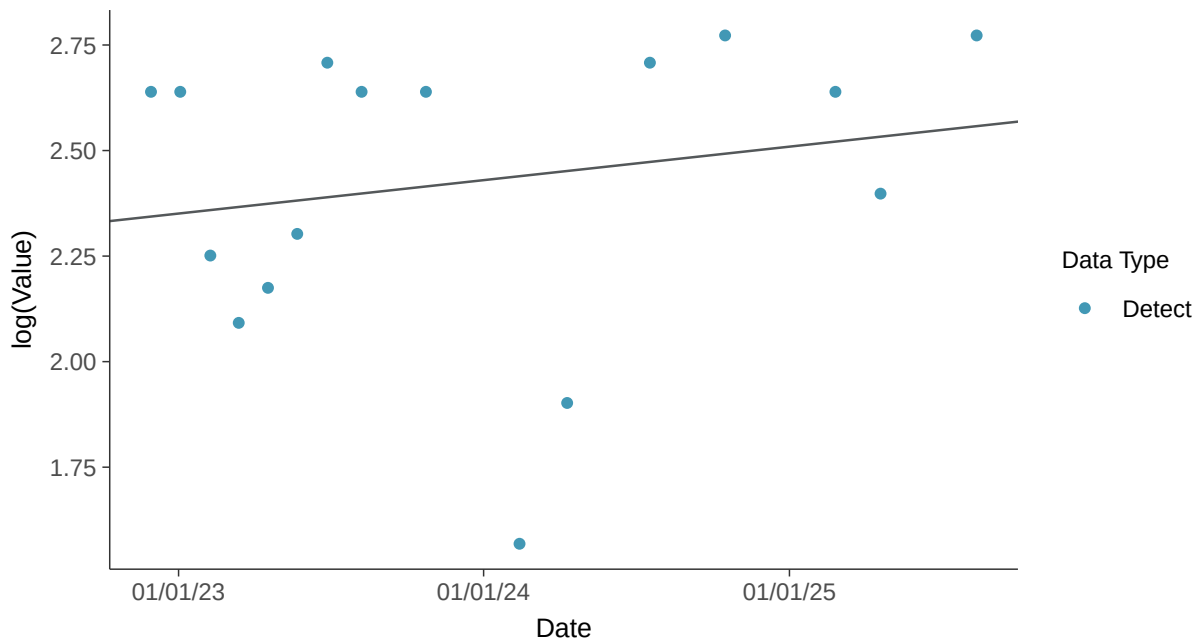
Normal Q-Q plot

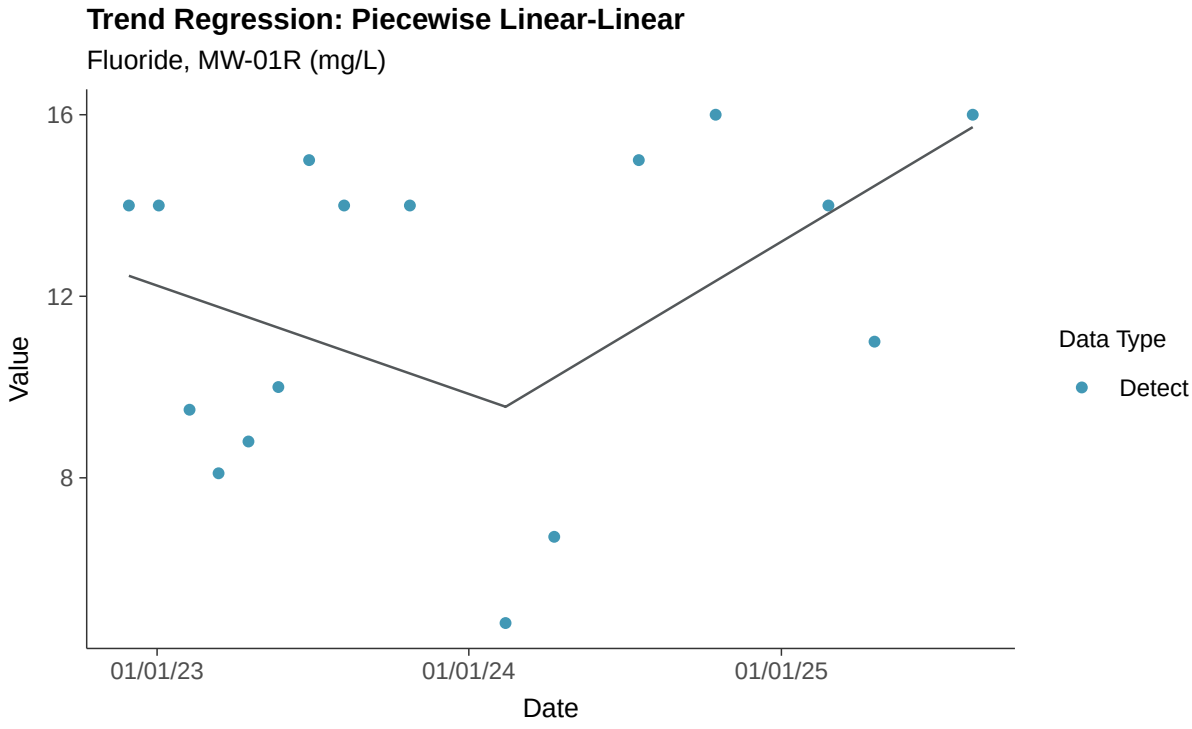
Fluoride, MW-01R (mg/L)



Trend Regression: Lognormal MLE

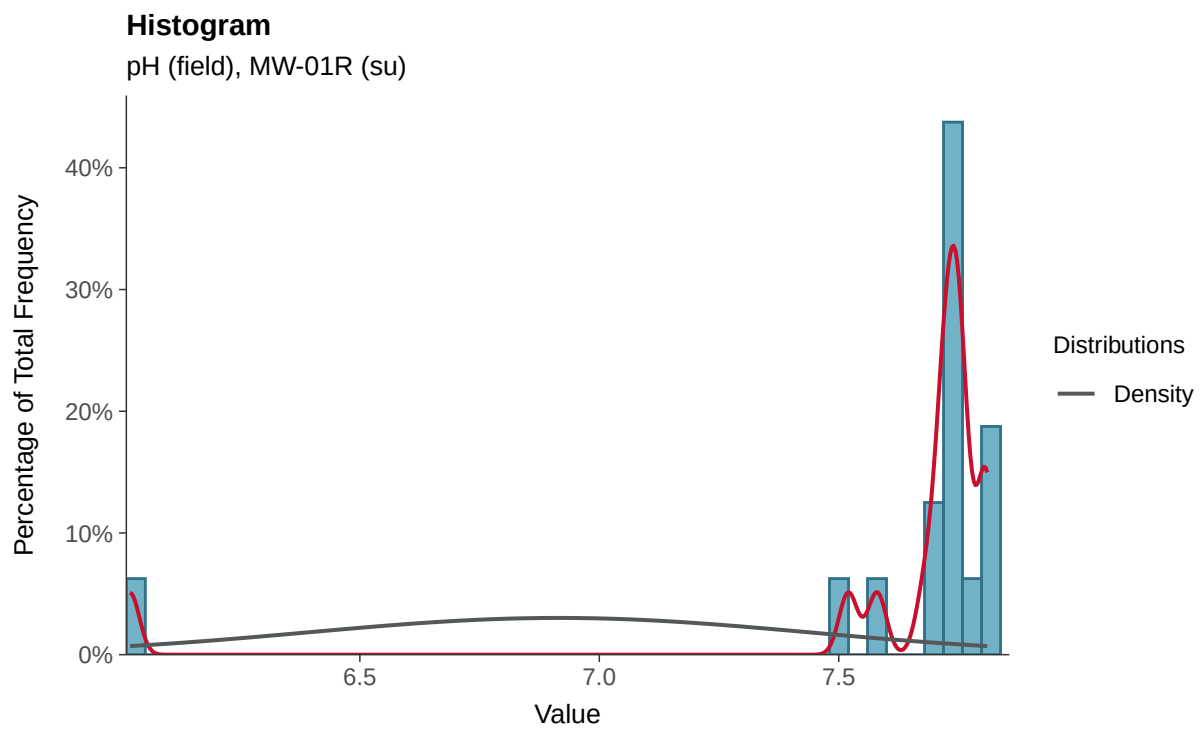
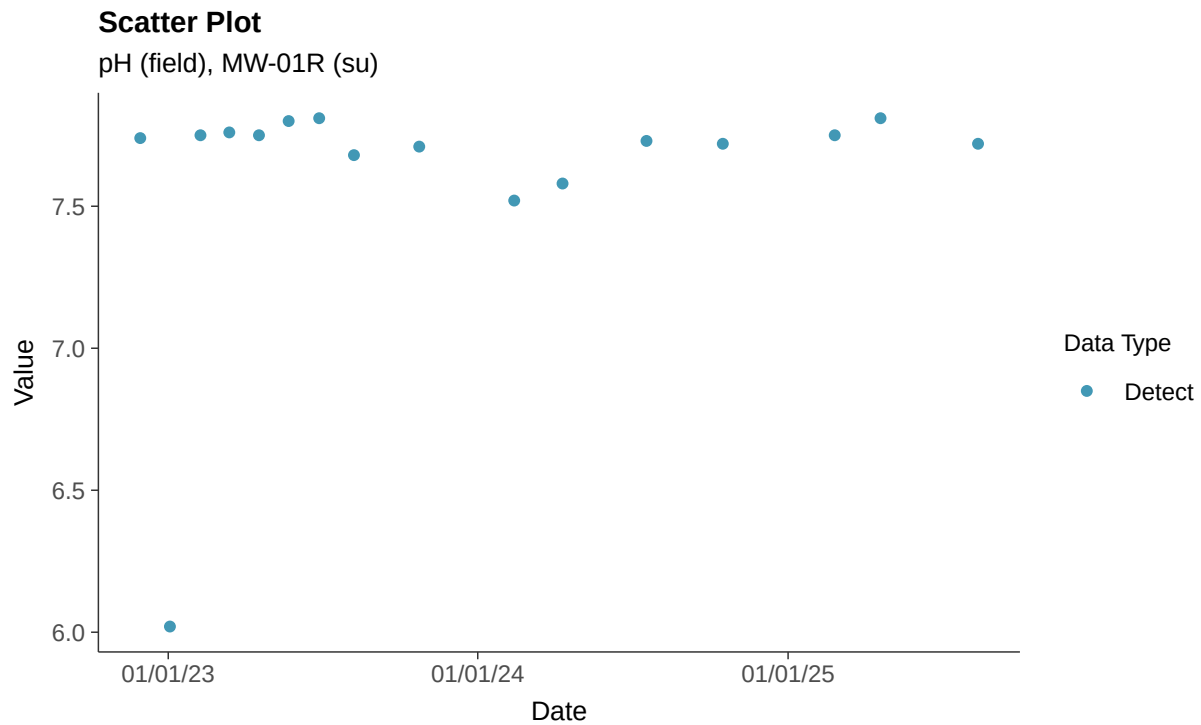
Fluoride, MW-01R (mg/L)





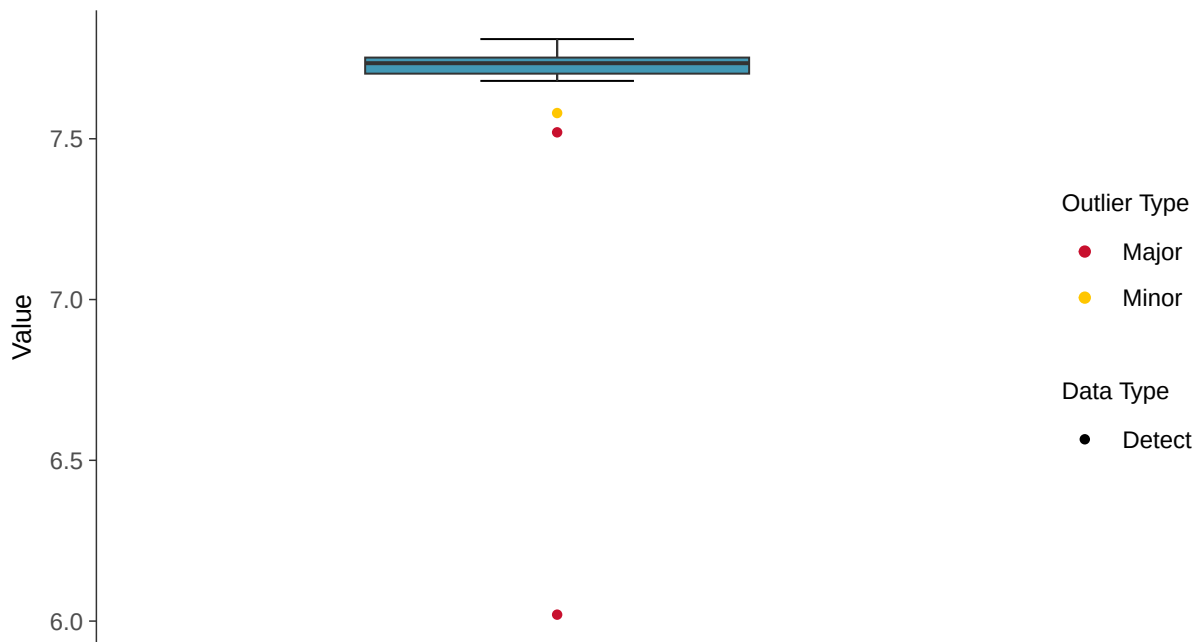
Appendix III: pH (field), MW-01R

ID: 11_2_3_120



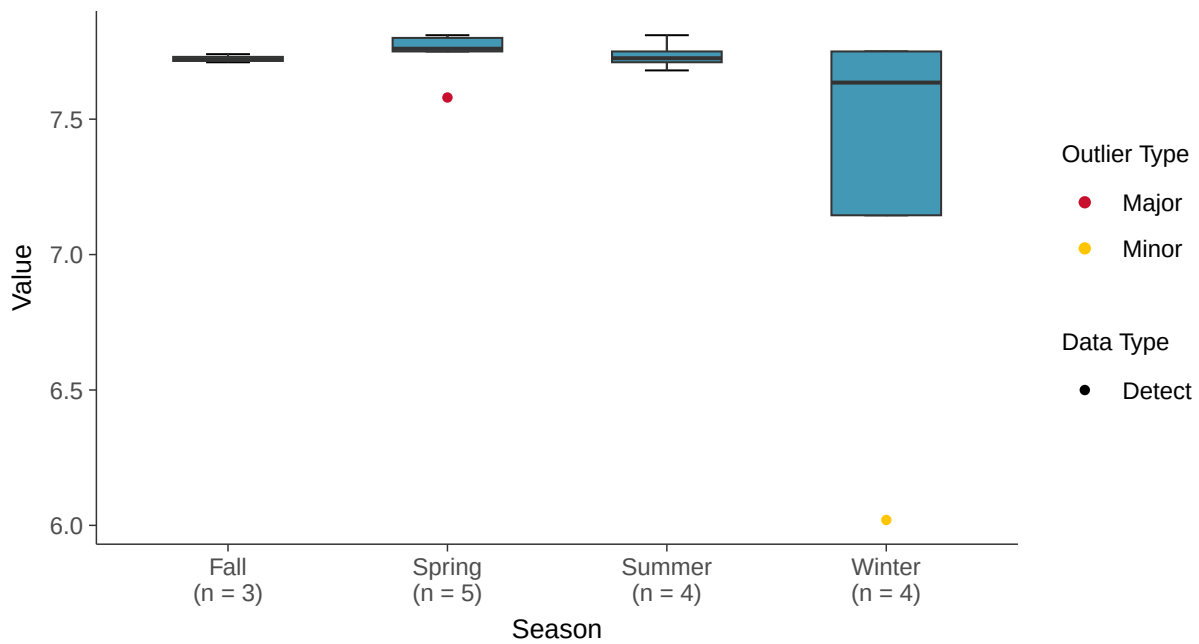
Boxplot

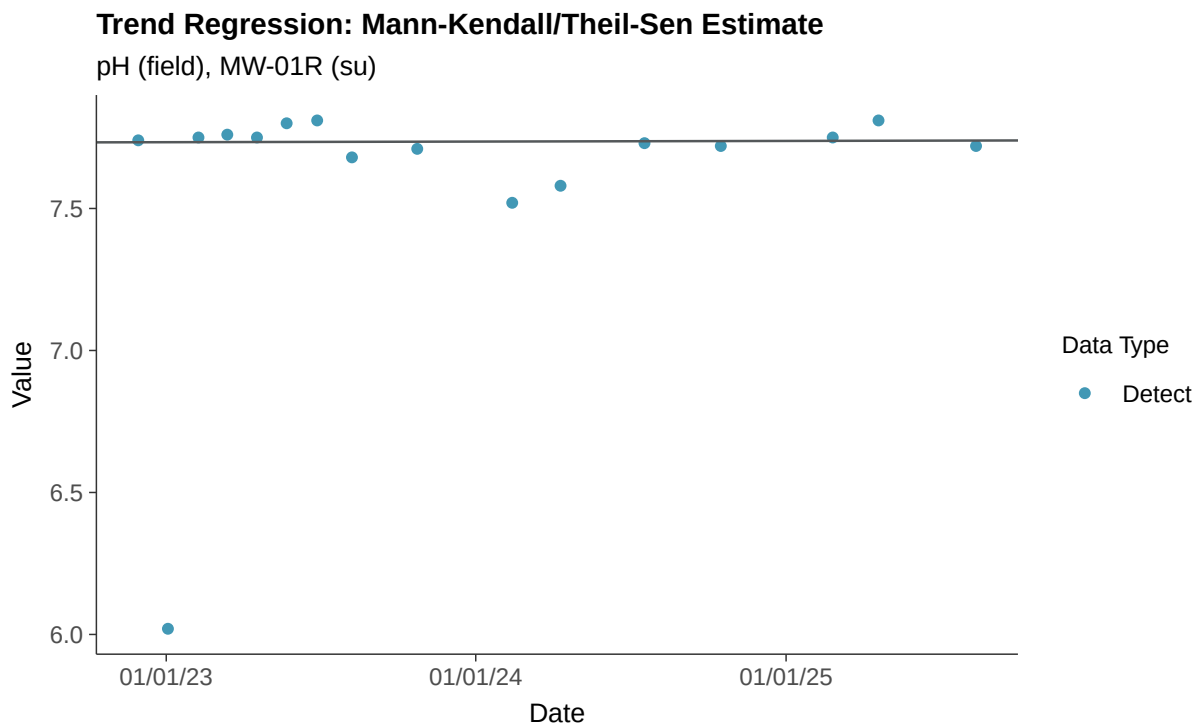
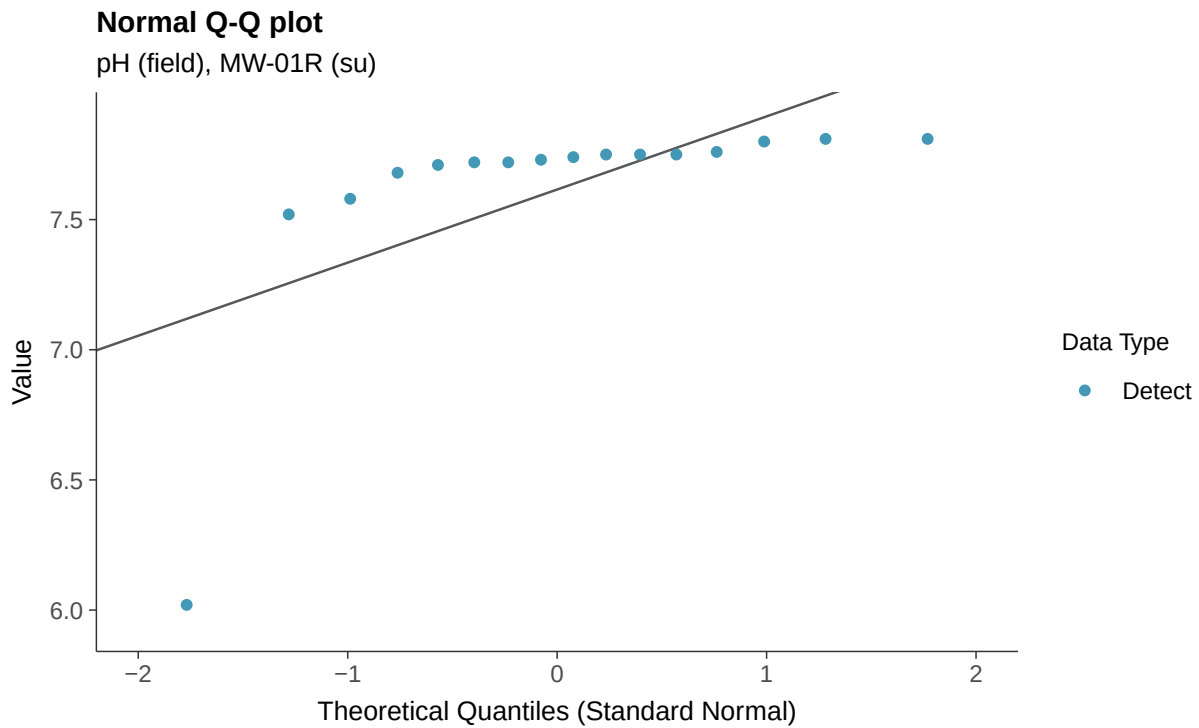
pH (field), MW-01R (su)



Boxplot by Season

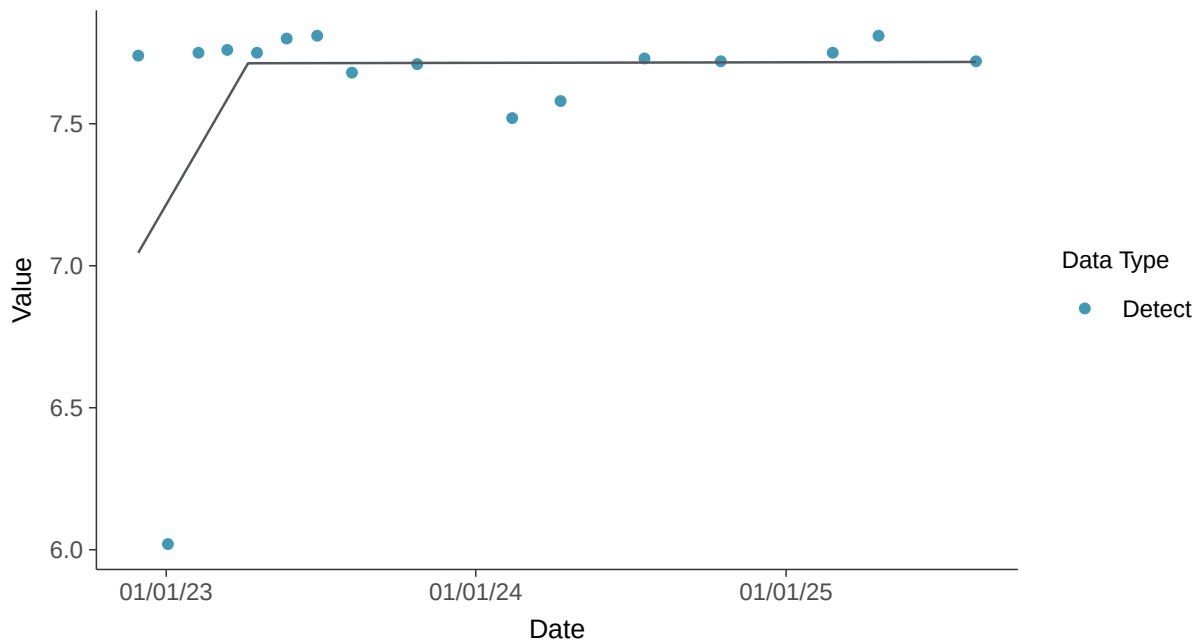
pH (field), MW-01R (su)





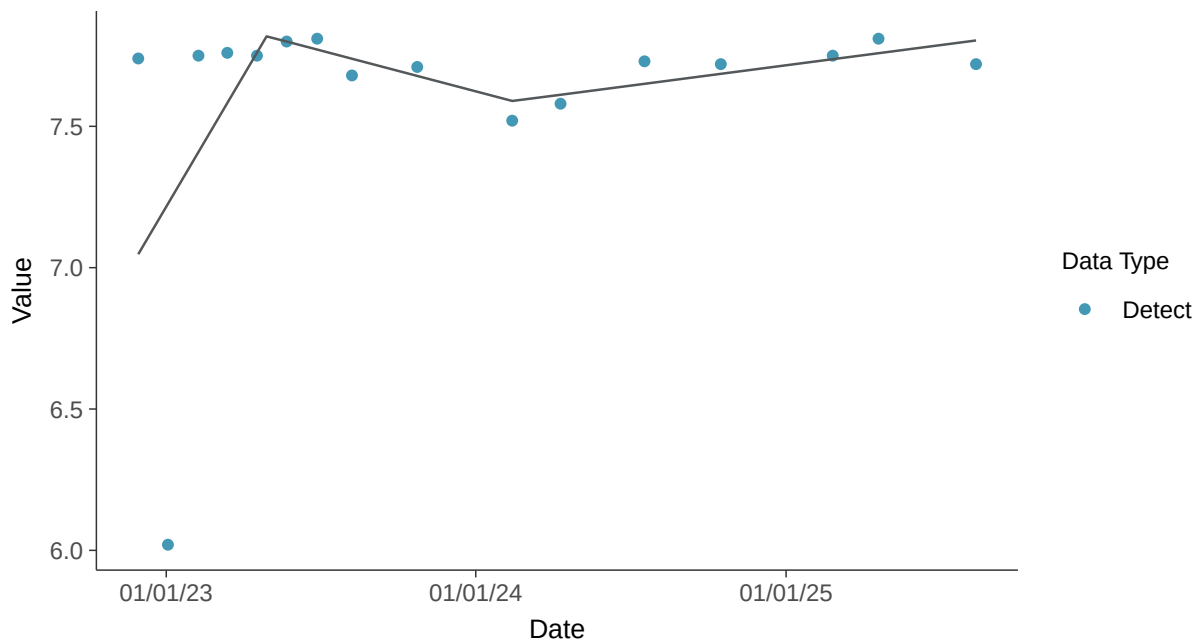
Trend Regression: Piecewise Linear-Linear

pH (field), MW-01R (su)



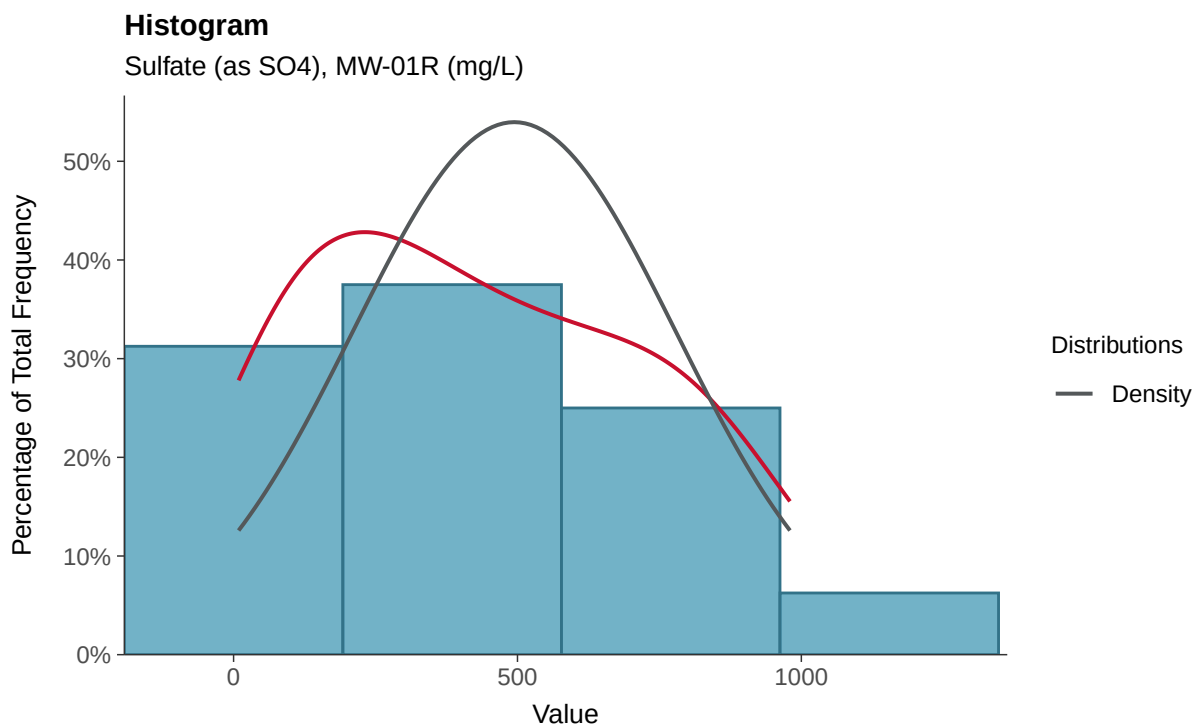
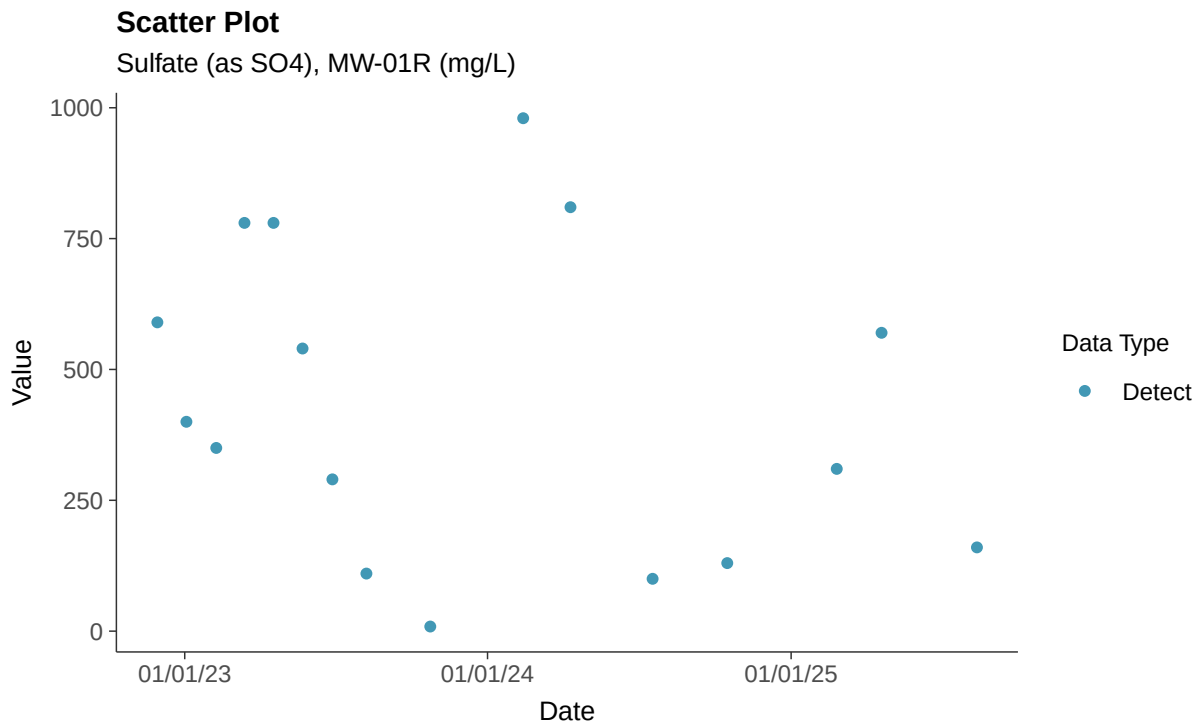
Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-01R (su)



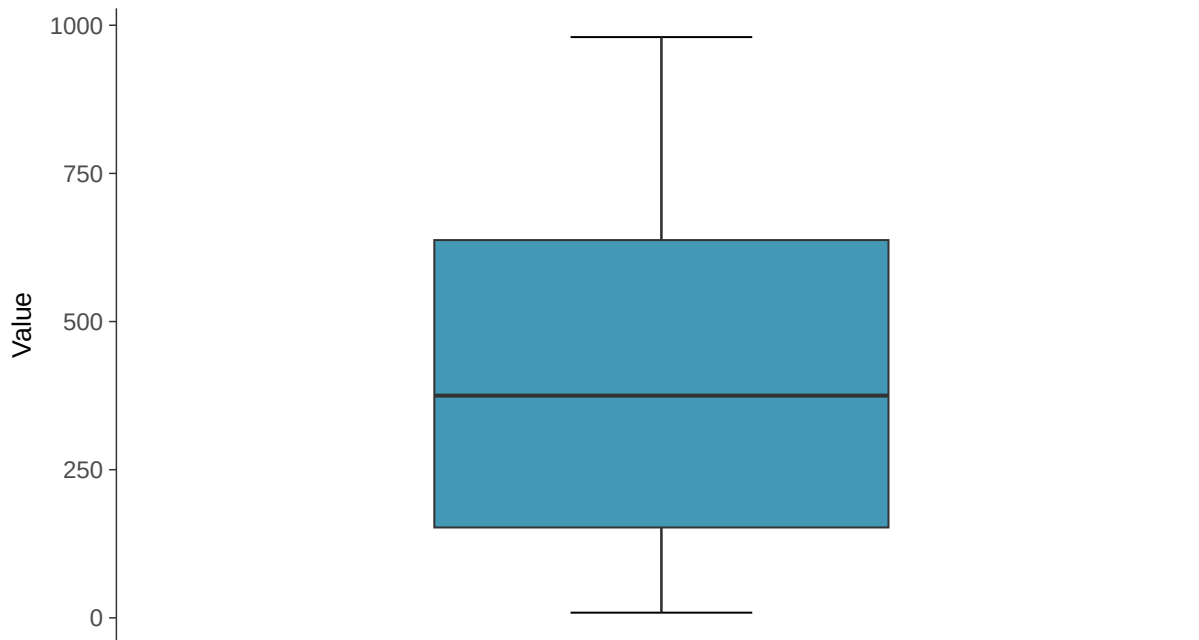
Appendix III: Sulfate (as SO₄), MW-01R

ID: 11_2_3_124



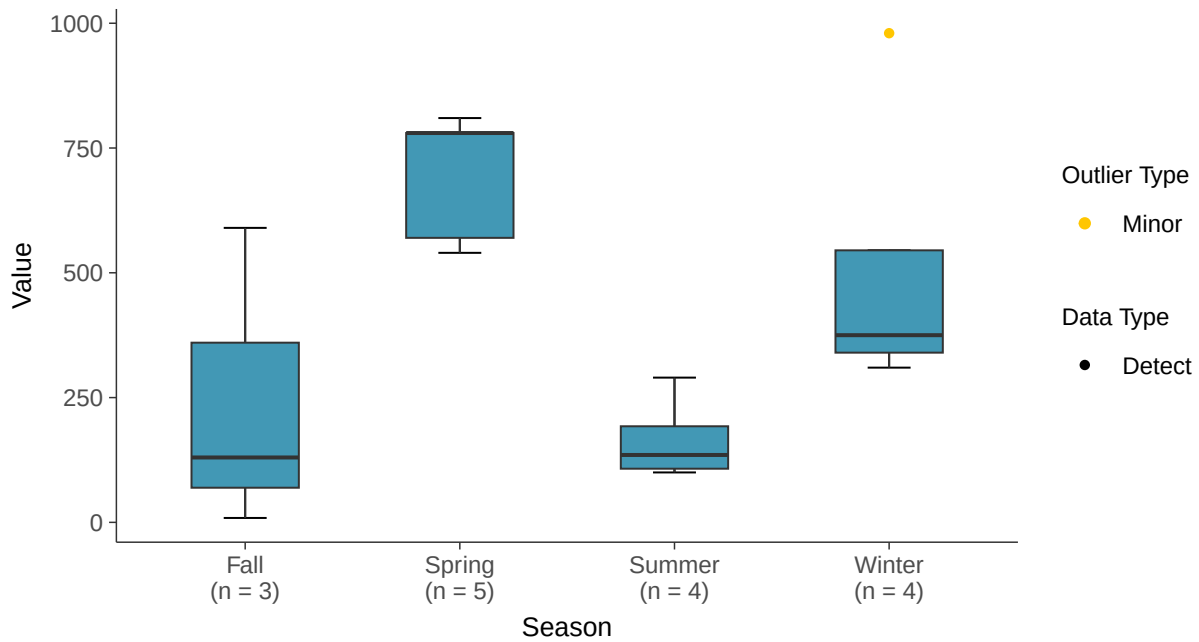
Boxplot

Sulfate (as SO₄), MW-01R (mg/L)



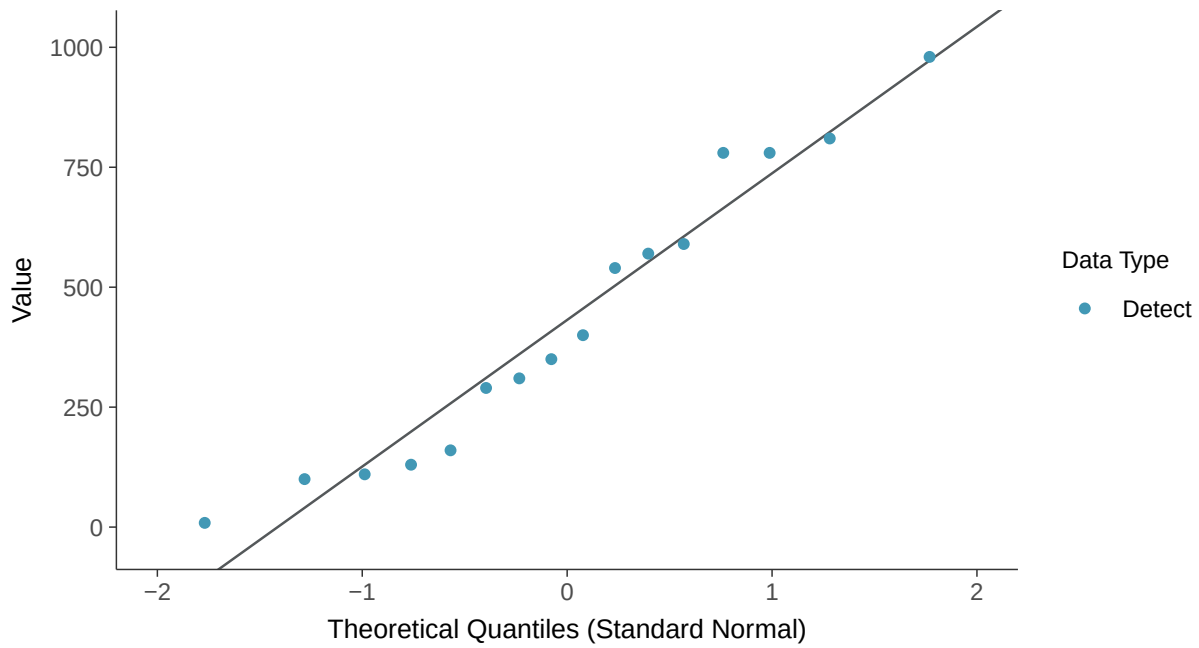
Boxplot by Season

Sulfate (as SO₄), MW-01R (mg/L)



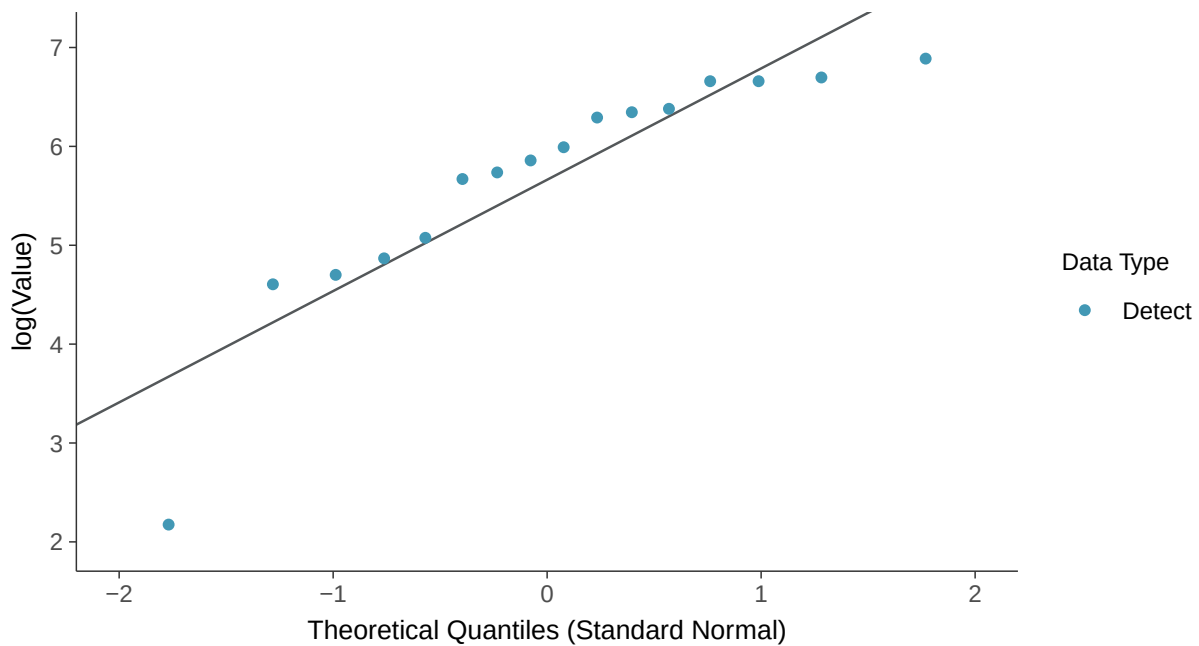
Normal Q-Q plot

Sulfate (as SO₄), MW-01R (mg/L)



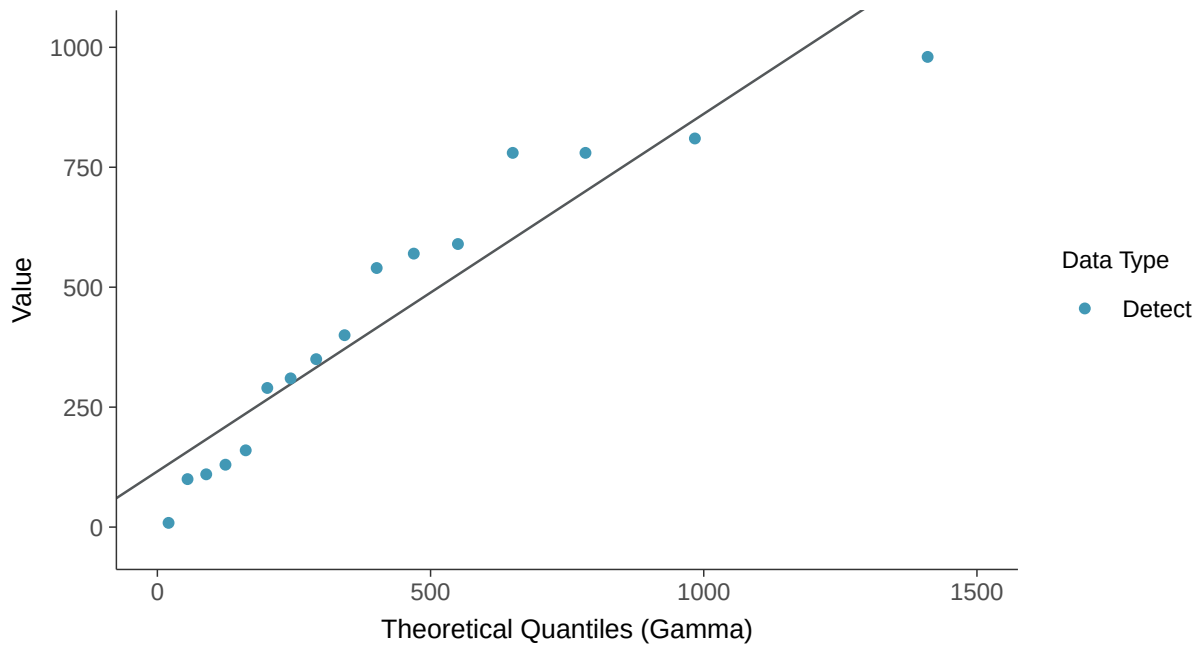
Lognormal Q-Q plot

Sulfate (as SO₄), MW-01R (mg/L)



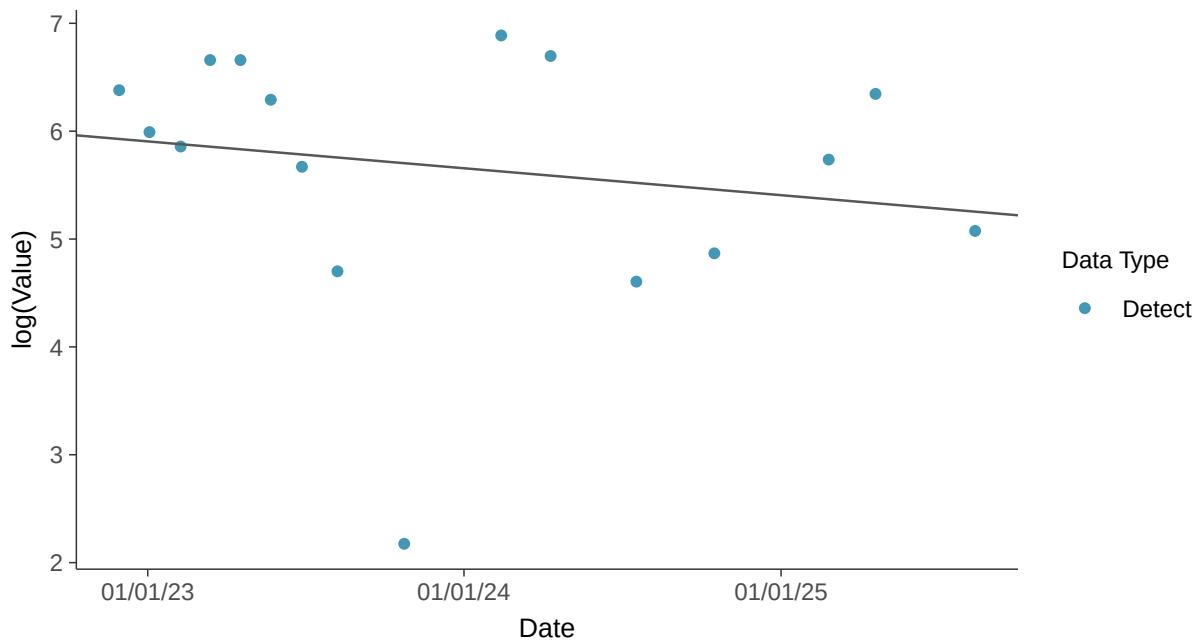
Gamma Q-Q plot

Sulfate (as SO₄), MW-01R (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-01R (mg/L)

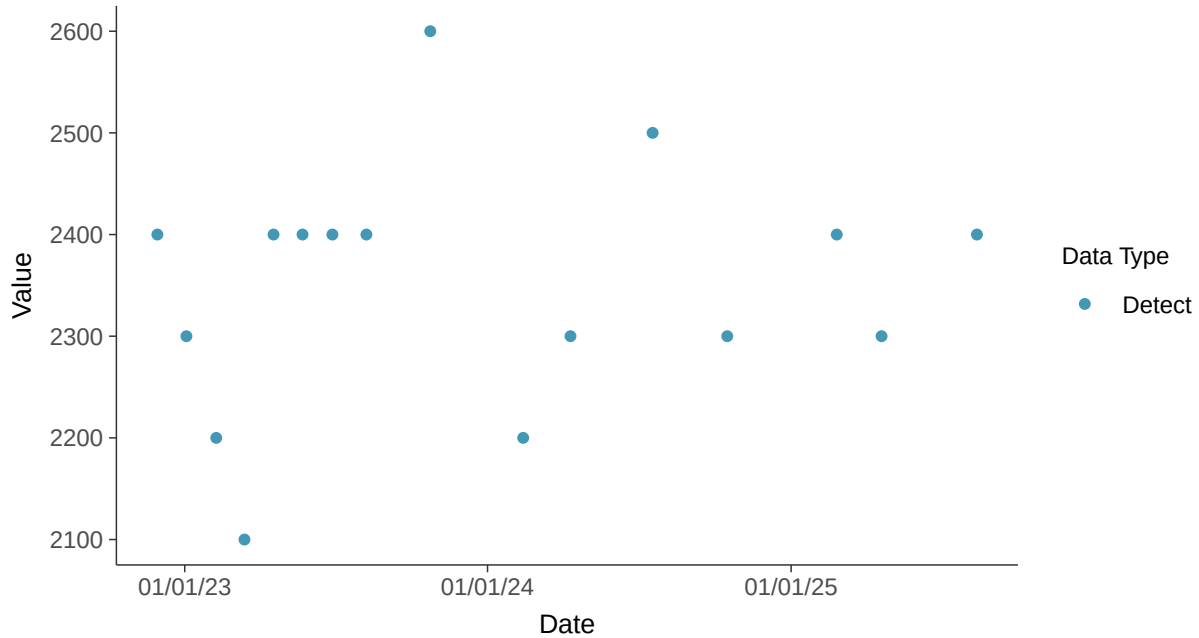


Appendix III: Total Dissolved Solids, MW-01R

ID: 11_2_3_126

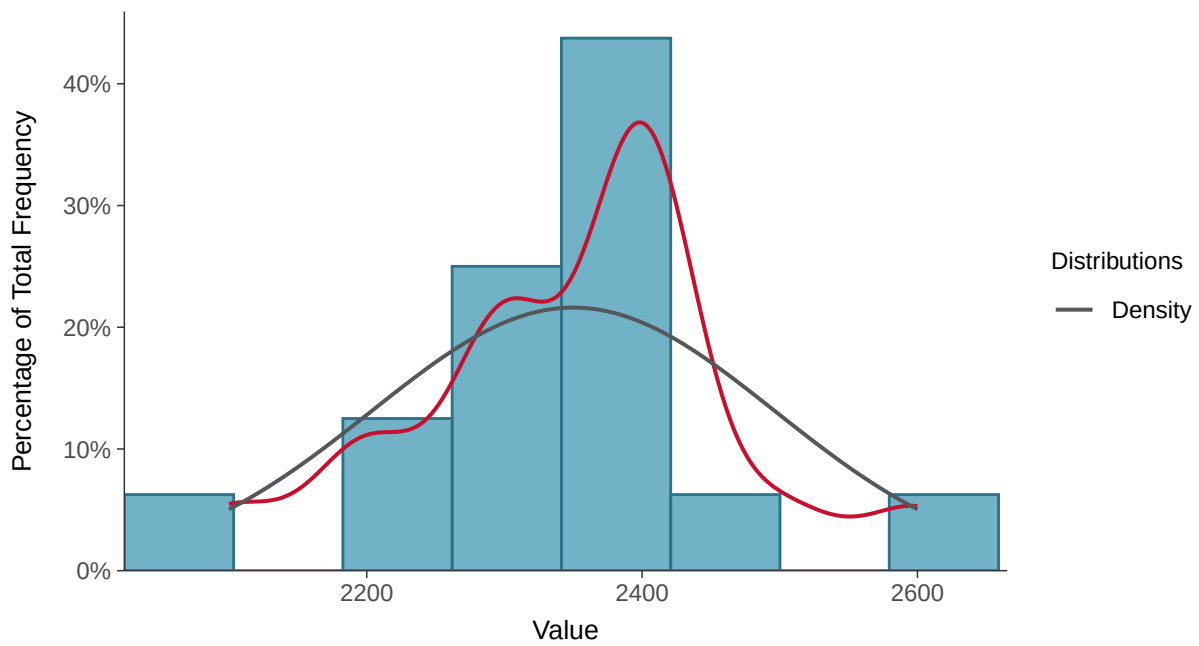
Scatter Plot

Total Dissolved Solids, MW-01R (mg/L)



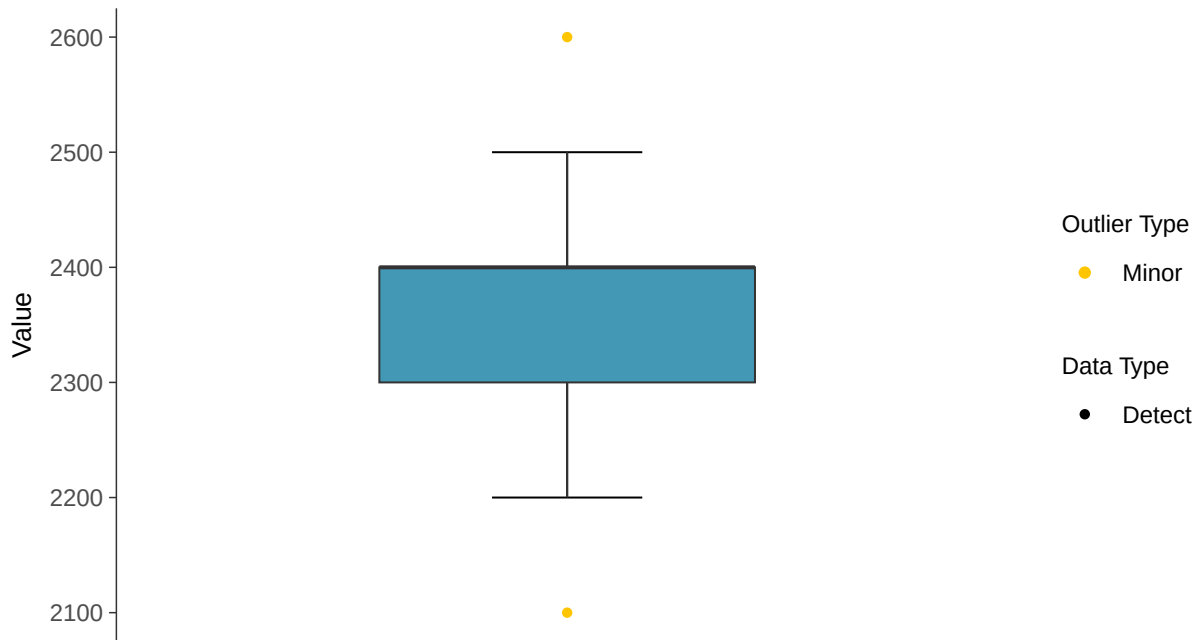
Histogram

Total Dissolved Solids, MW-01R (mg/L)



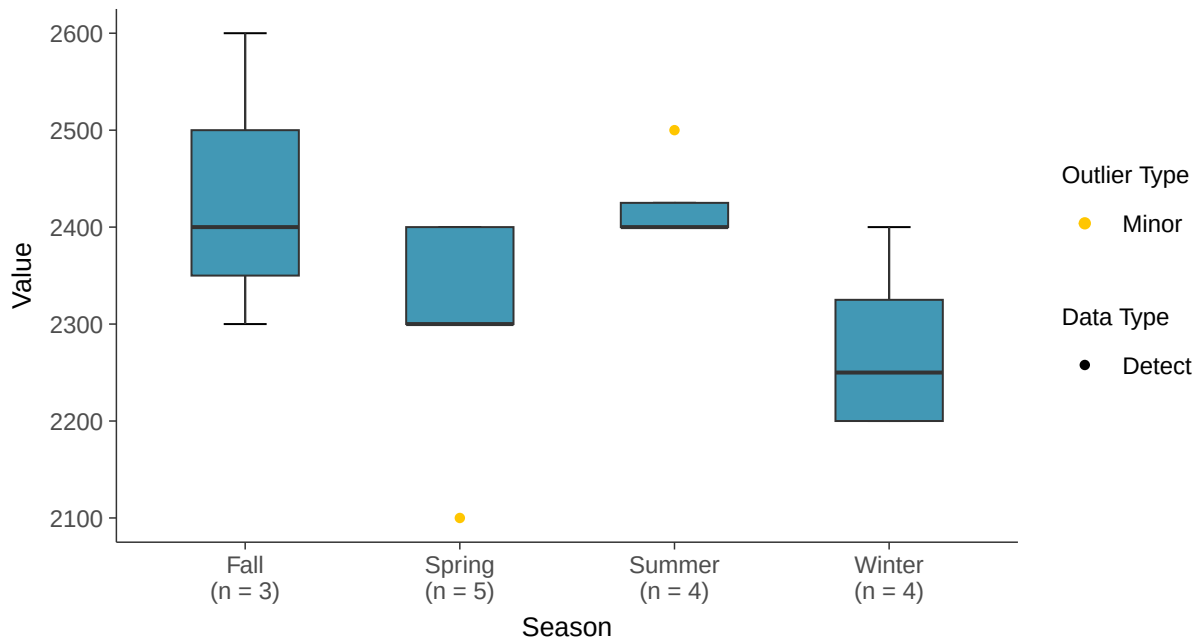
Boxplot

Total Dissolved Solids, MW-01R (mg/L)



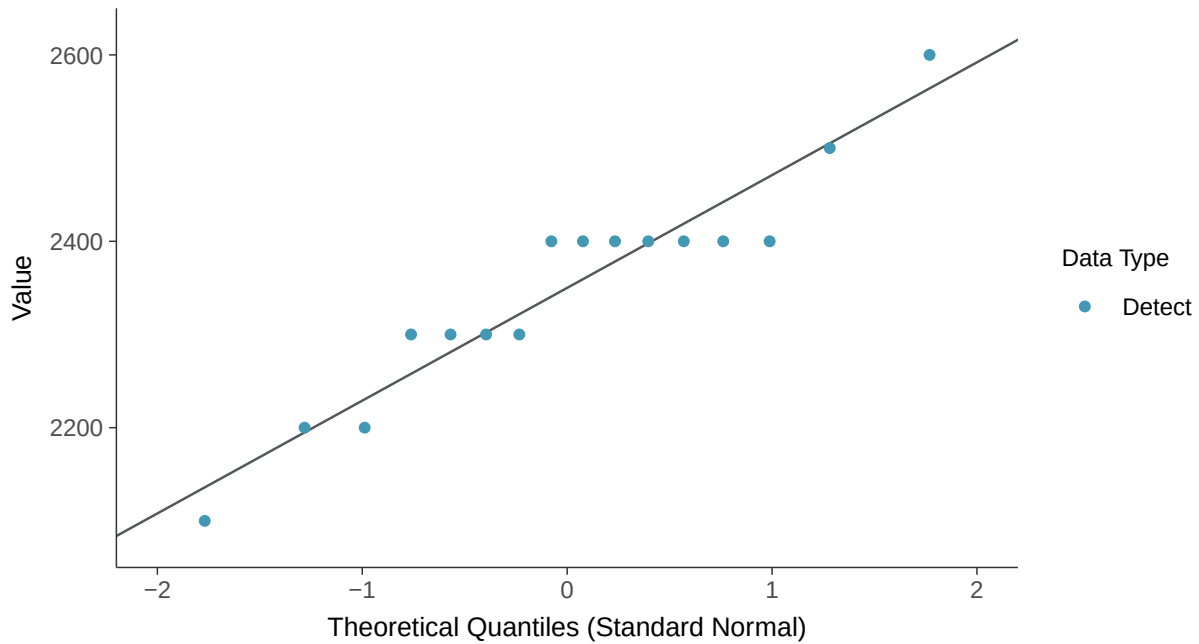
Boxplot by Season

Total Dissolved Solids, MW-01R (mg/L)



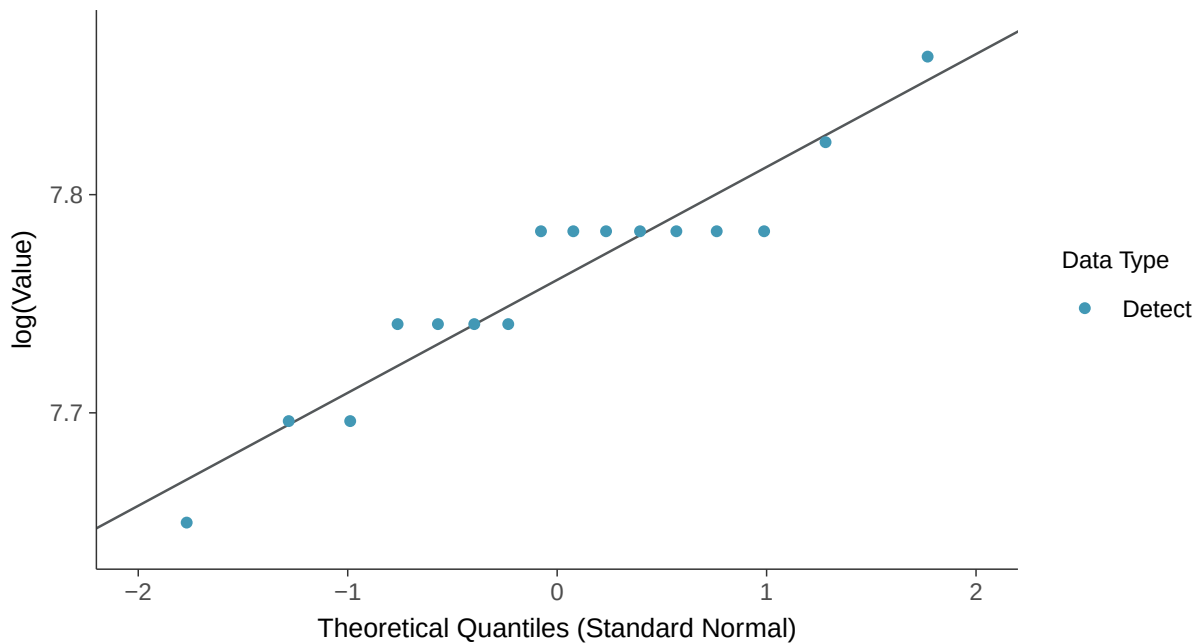
Normal Q-Q plot

Total Dissolved Solids, MW-01R (mg/L)



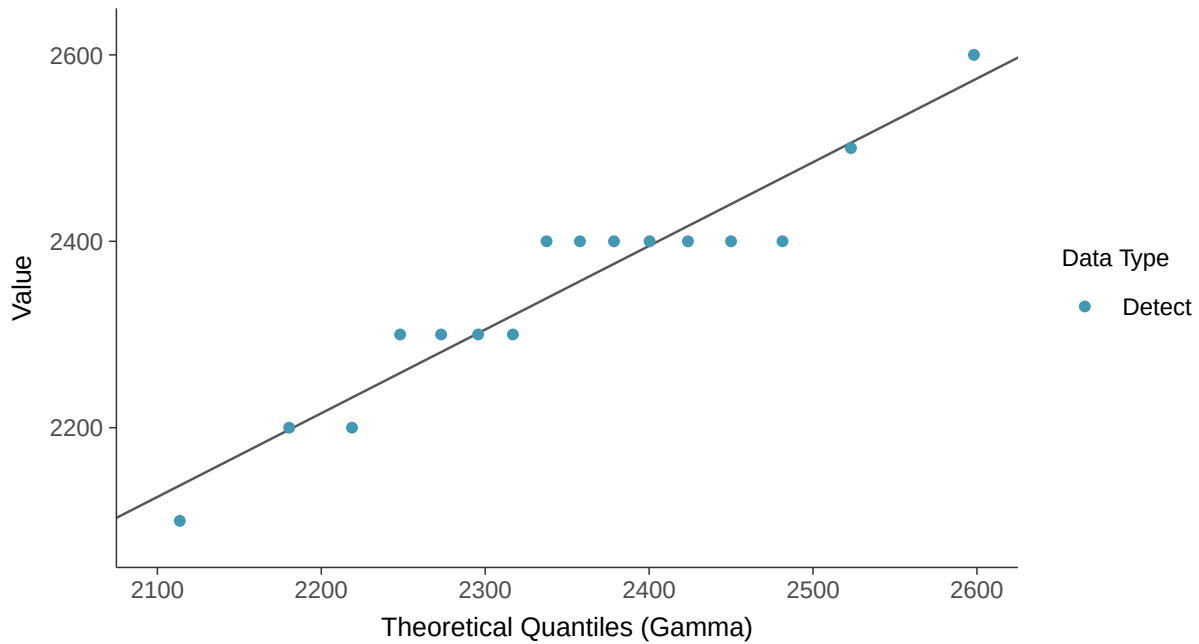
Lognormal Q-Q plot

Total Dissolved Solids, MW-01R (mg/L)



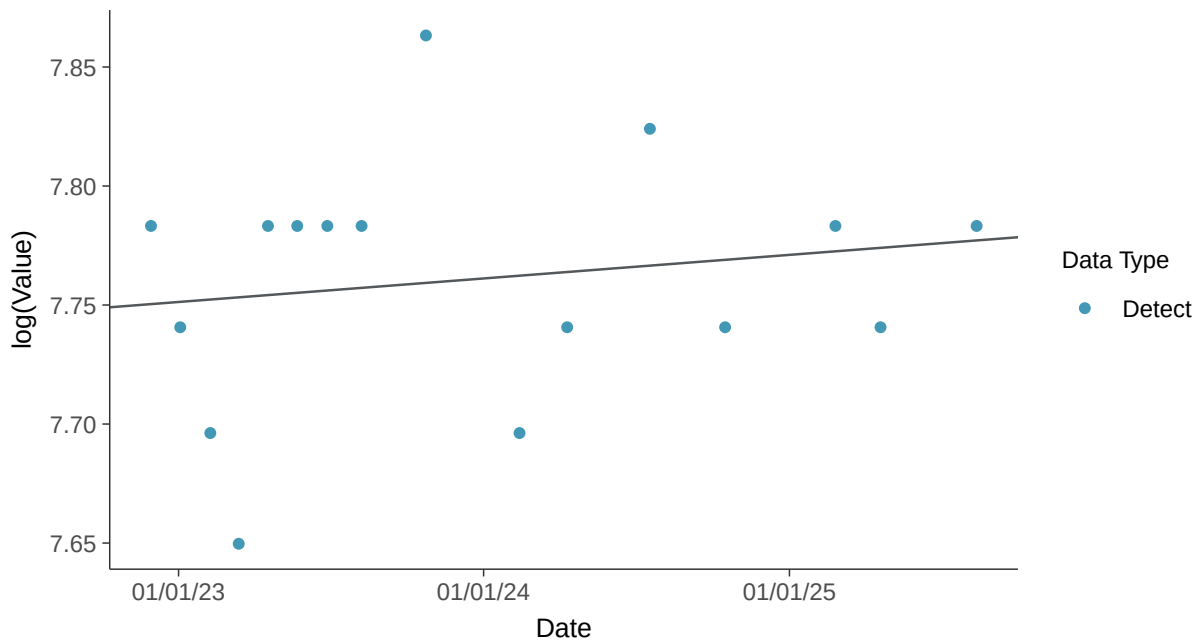
Gamma Q-Q plot

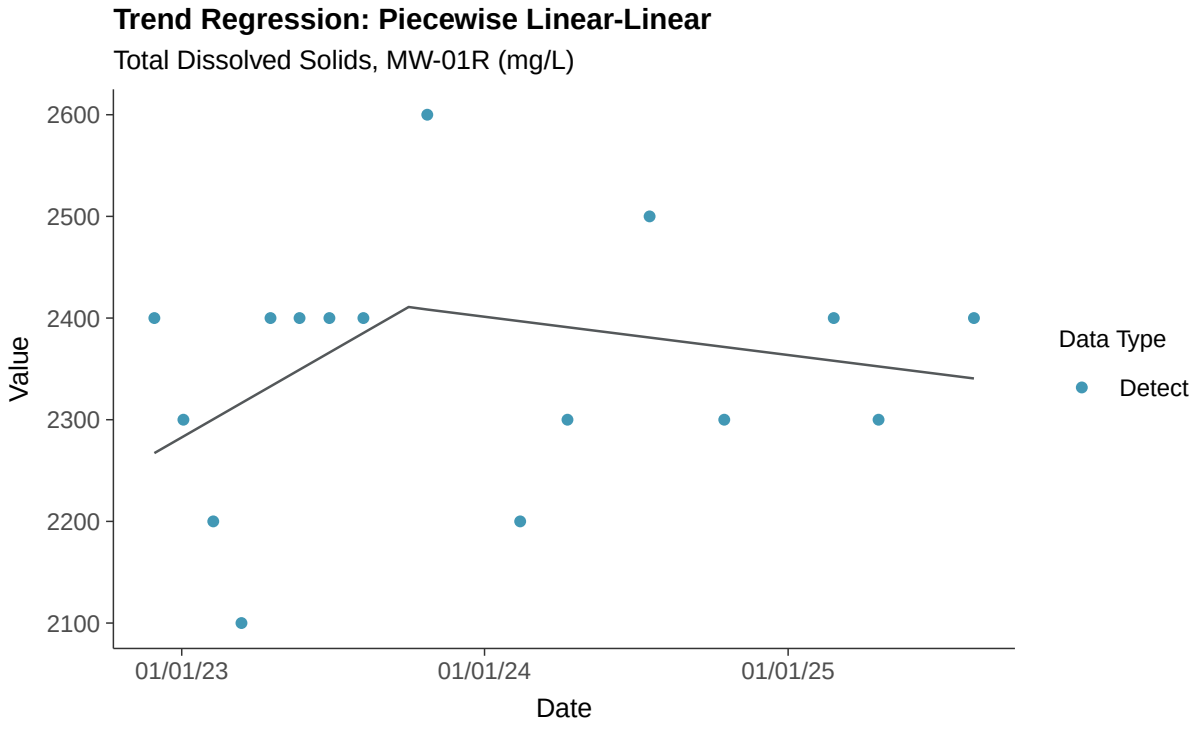
Total Dissolved Solids, MW-01R (mg/L)



Trend Regression: Lognormal MLE

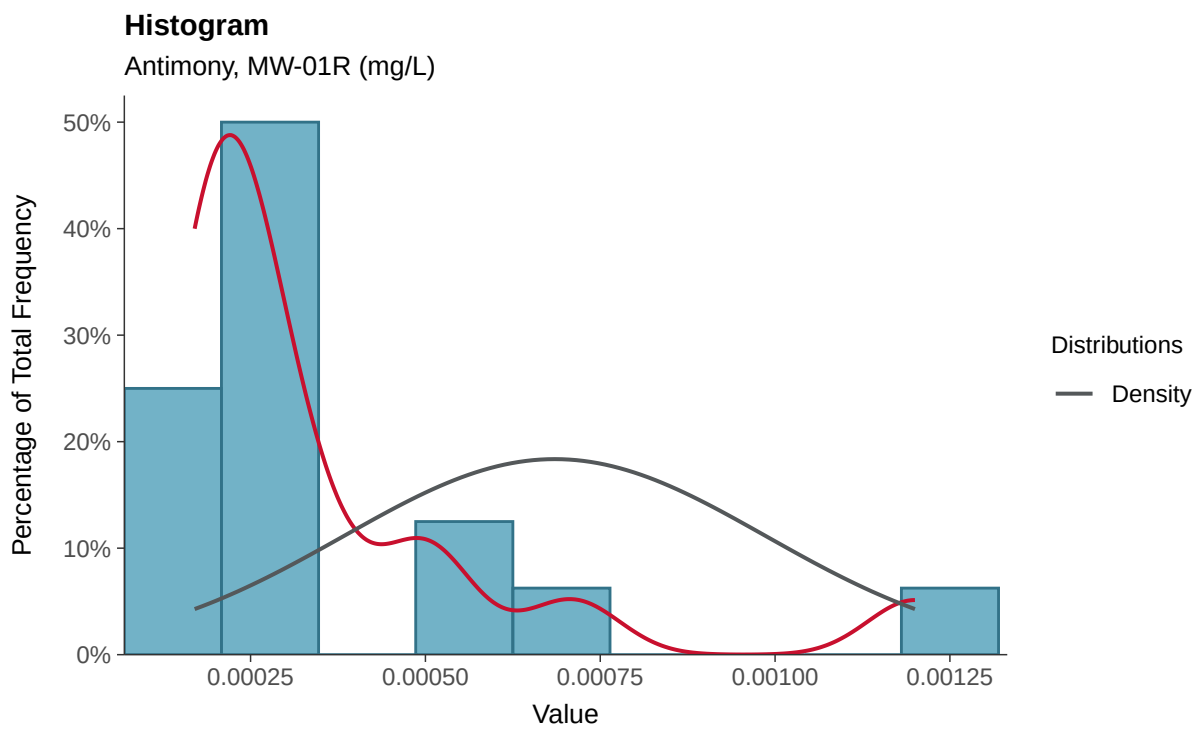
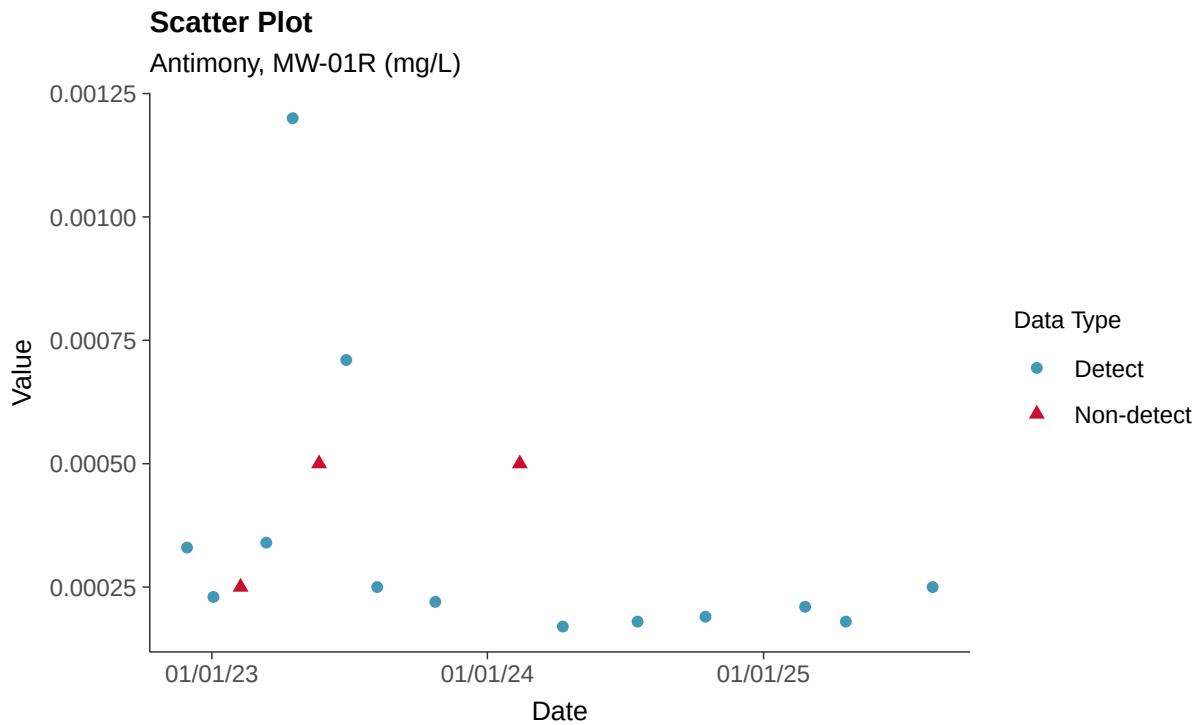
Total Dissolved Solids, MW-01R (mg/L)

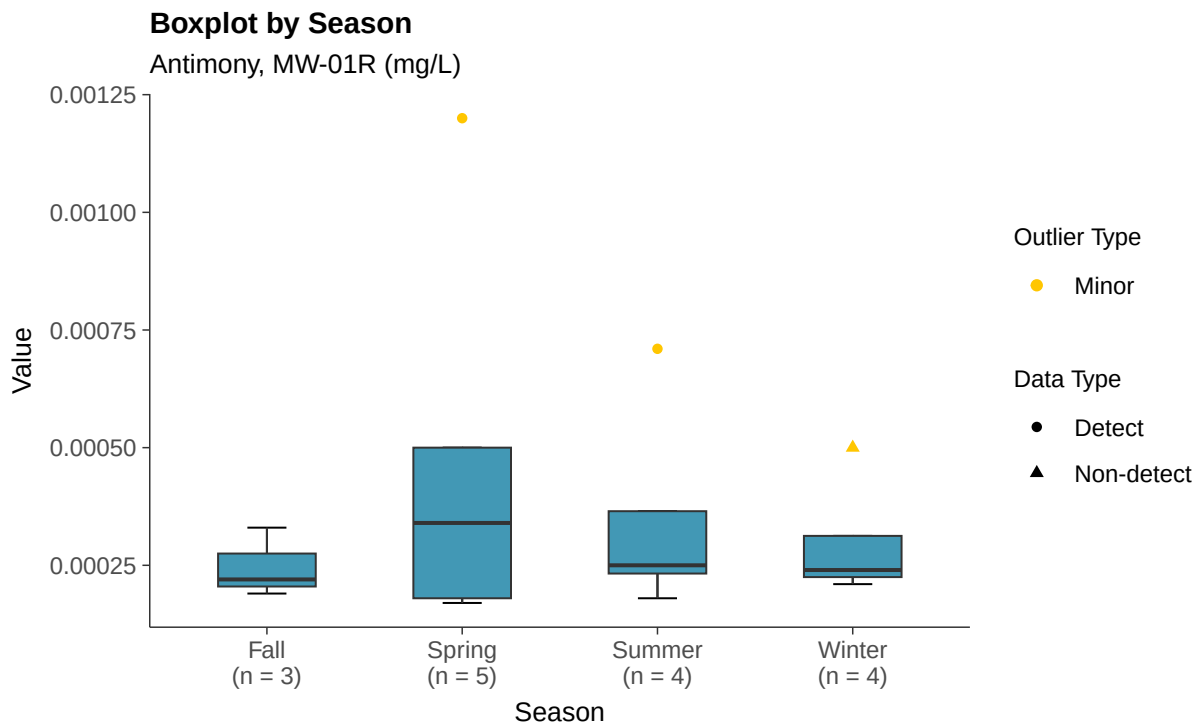
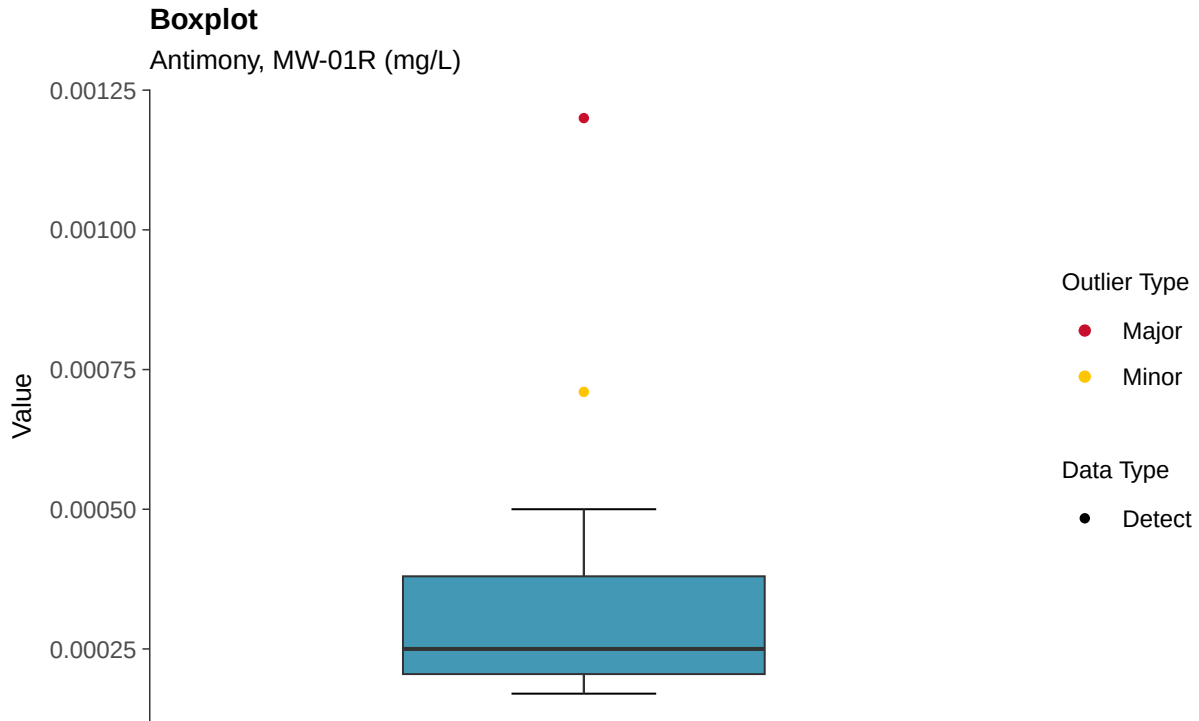




Appendix IV: Antimony, MW-01R

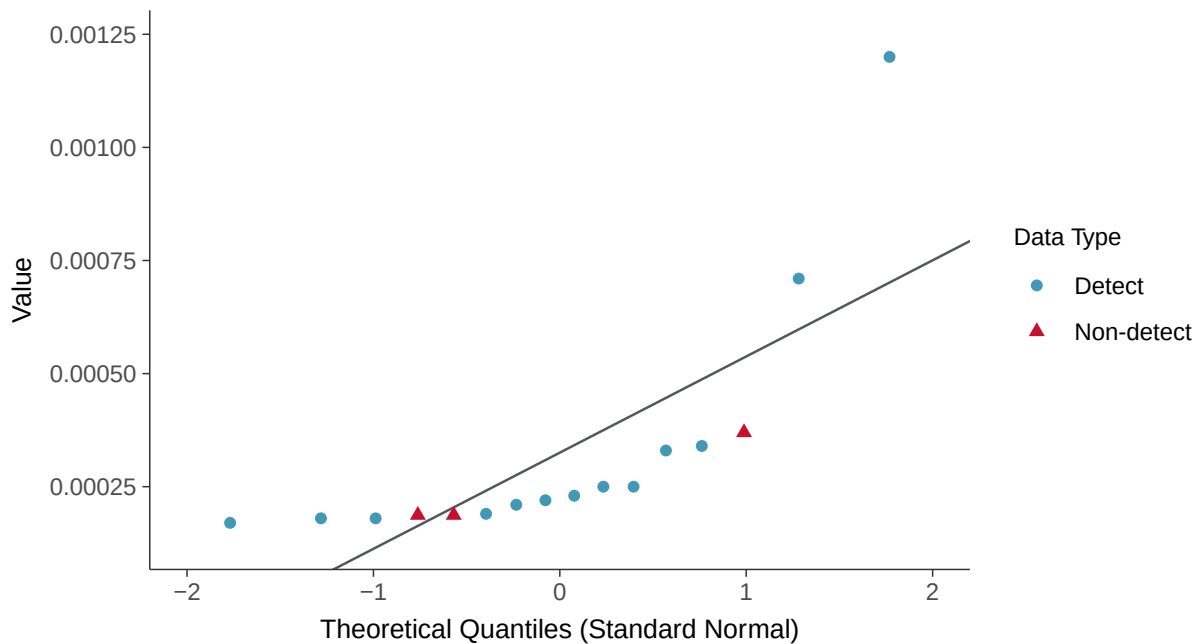
ID: 11_2_4_101





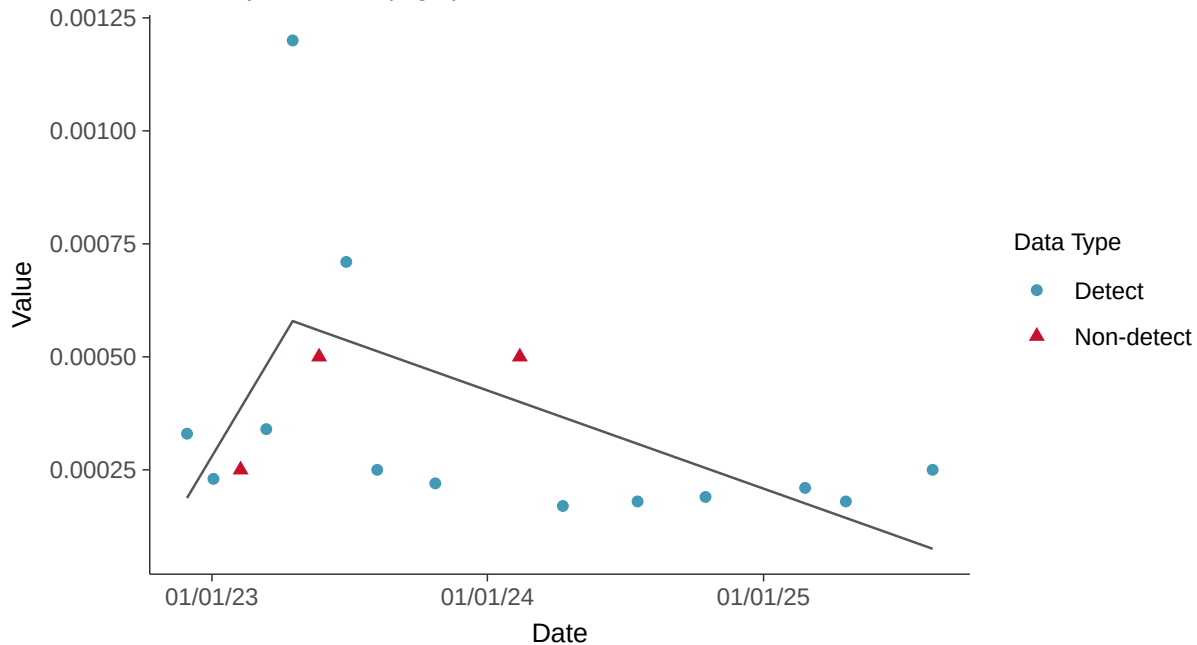
Normal Q-Q plot using ROS Imputed Estimates

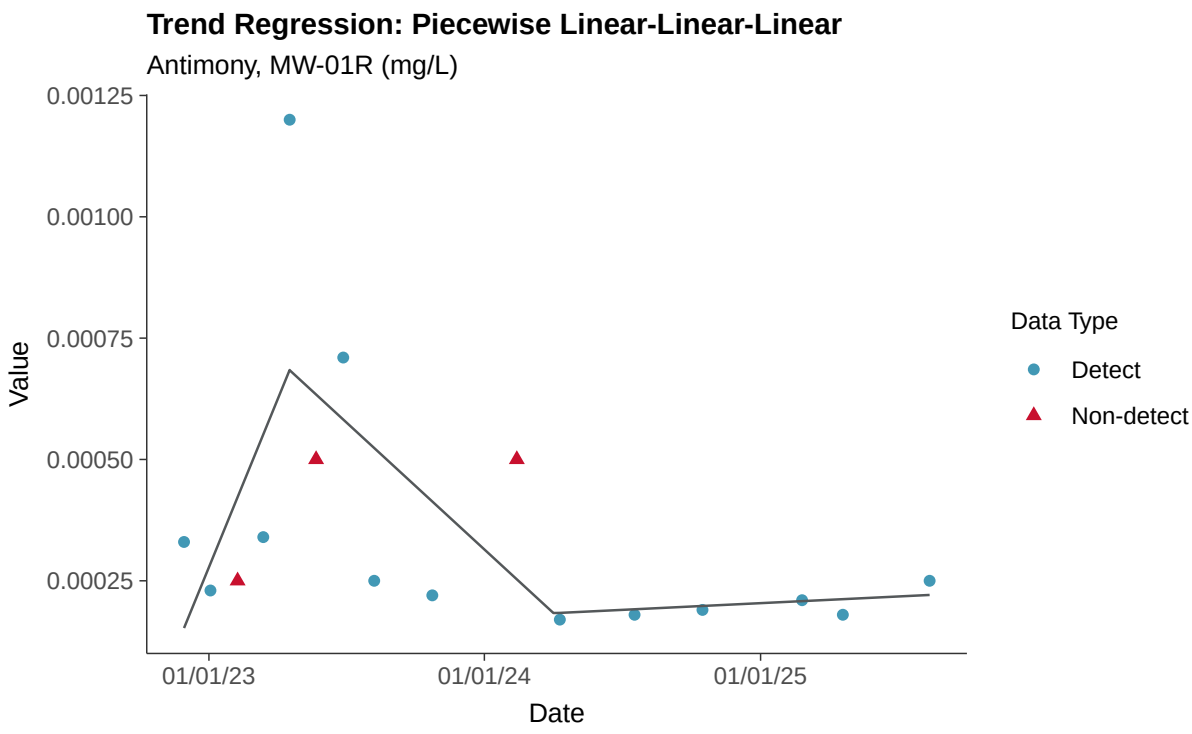
Antimony, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-01R (mg/L)



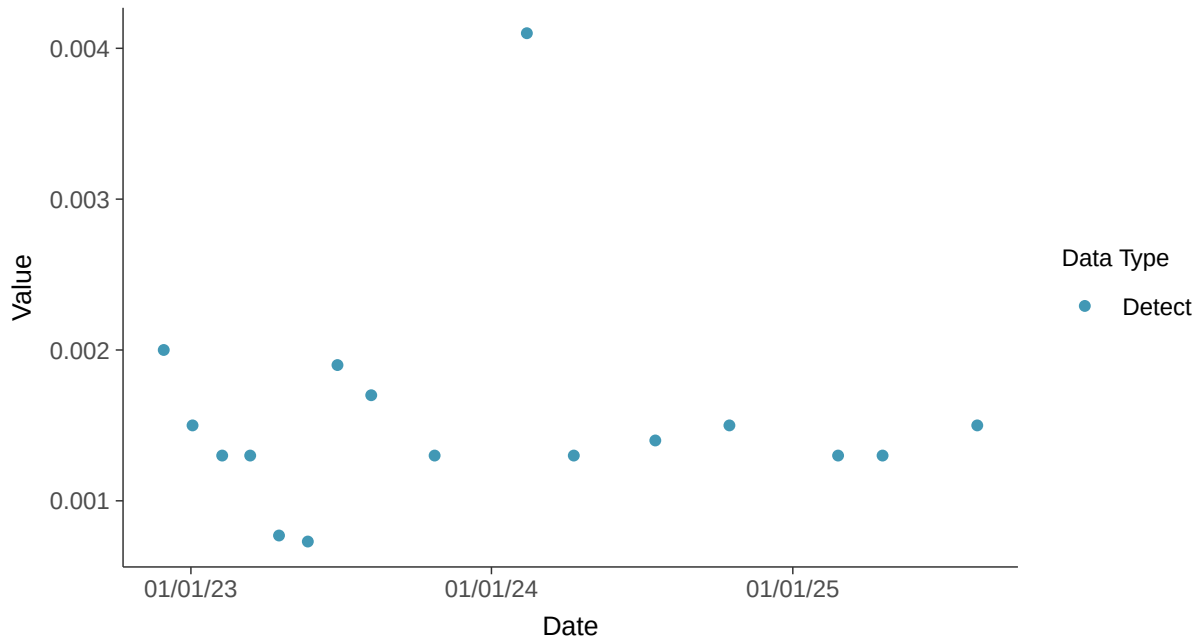


Appendix IV: Arsenic, MW-01R

ID: 11_2_4_102

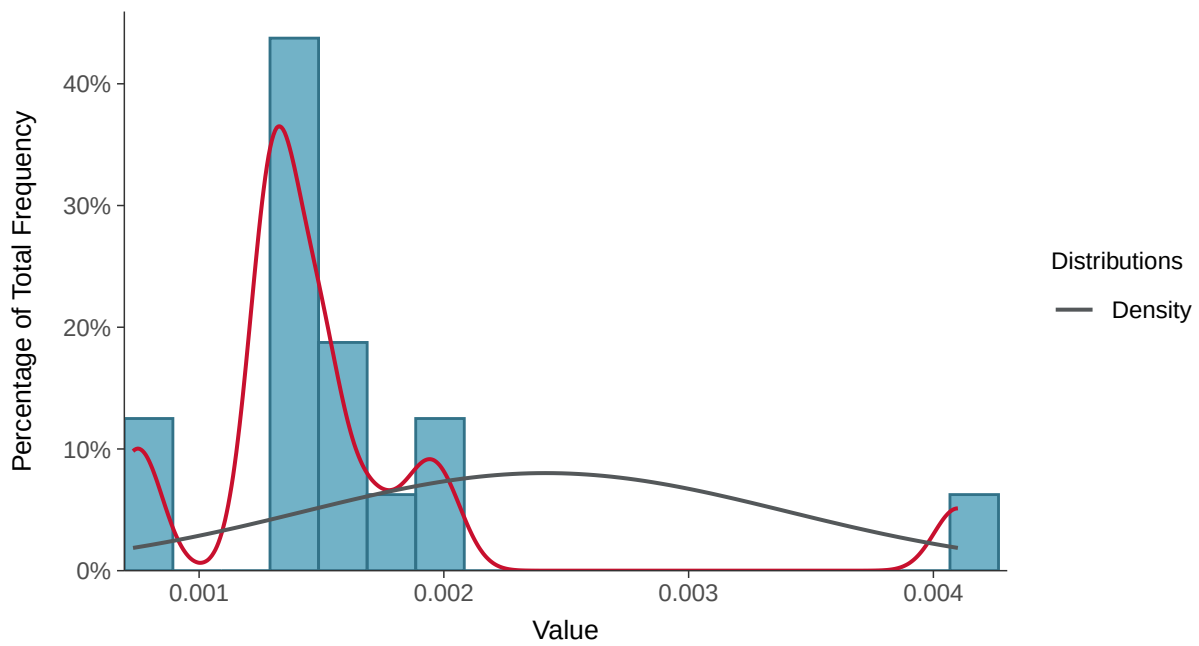
Scatter Plot

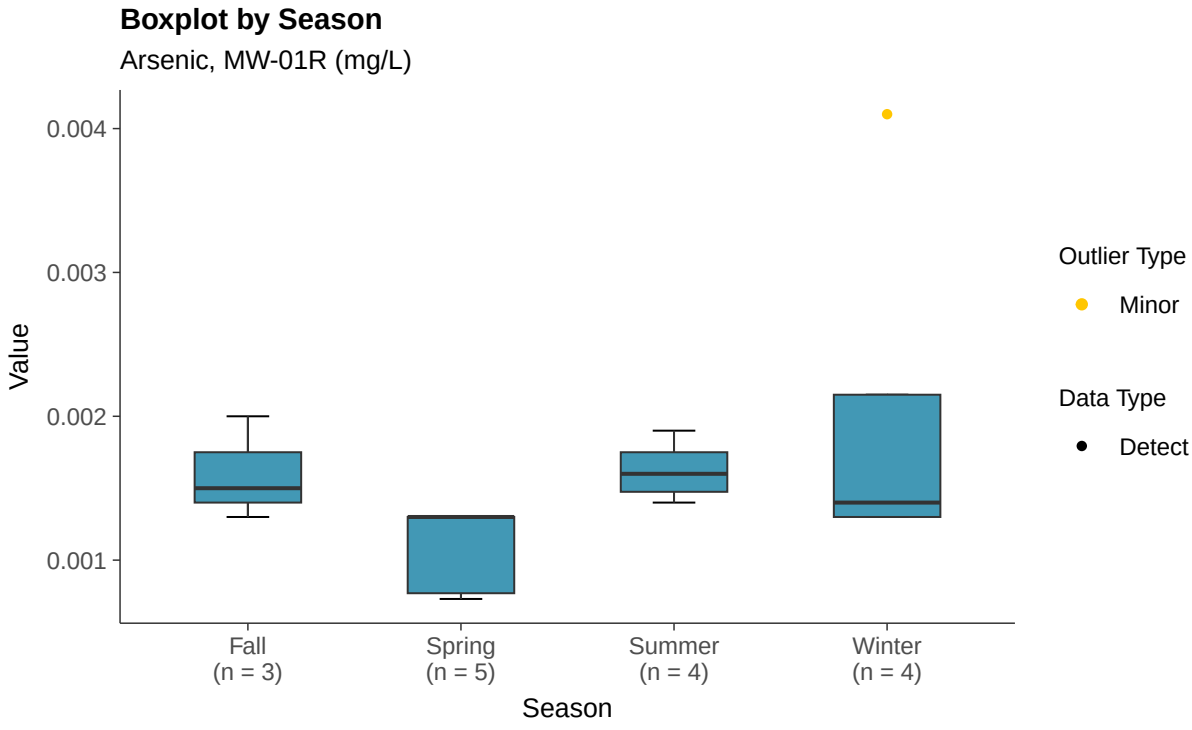
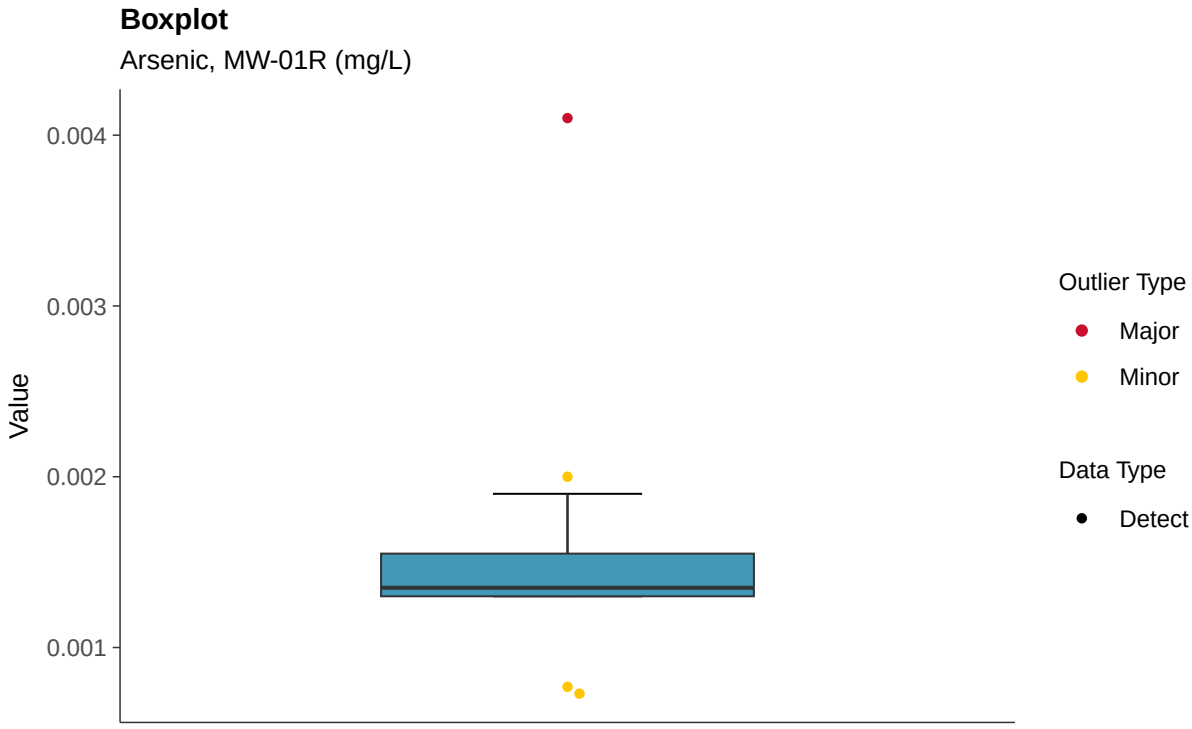
Arsenic, MW-01R (mg/L)



Histogram

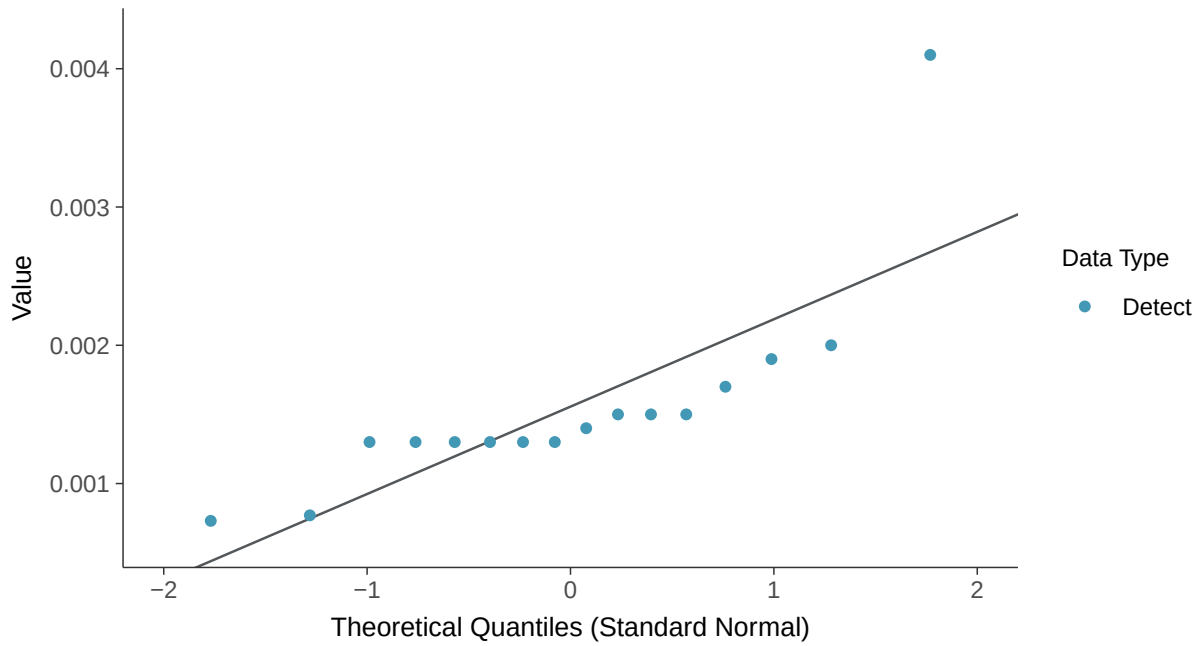
Arsenic, MW-01R (mg/L)





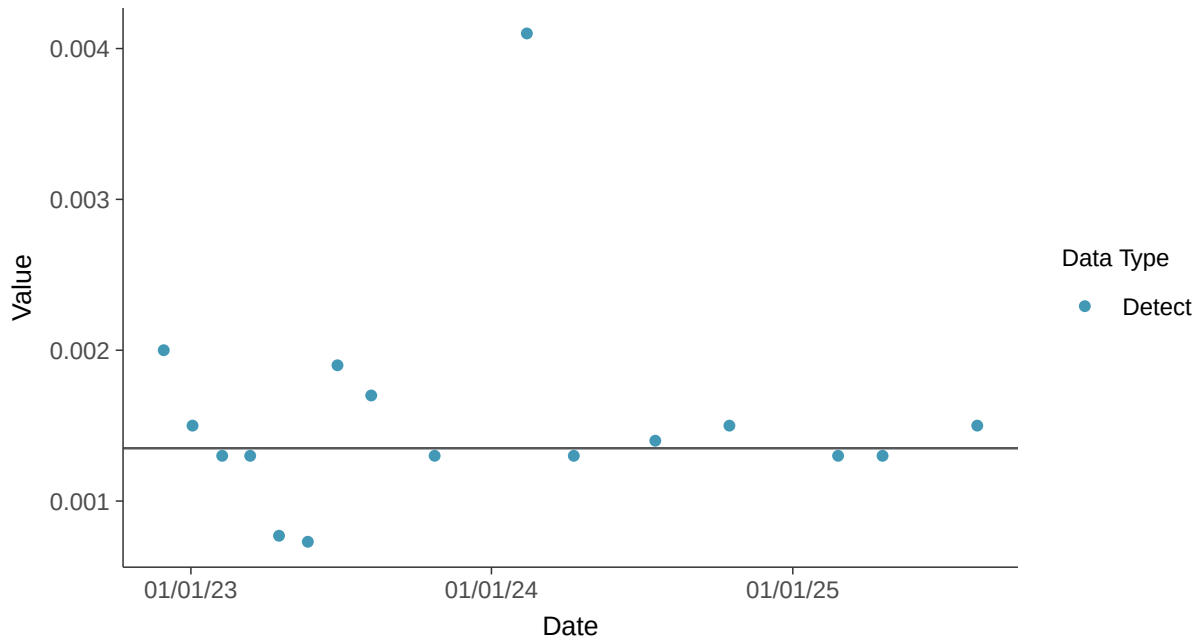
Normal Q-Q plot

Arsenic, MW-01R (mg/L)



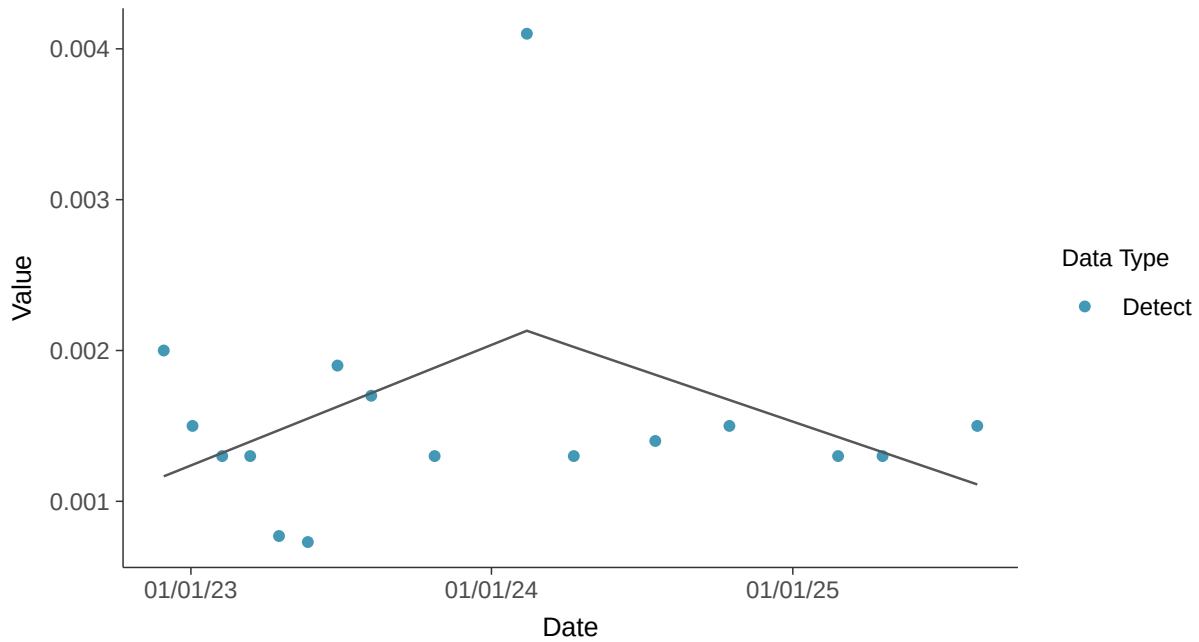
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-01R (mg/L)



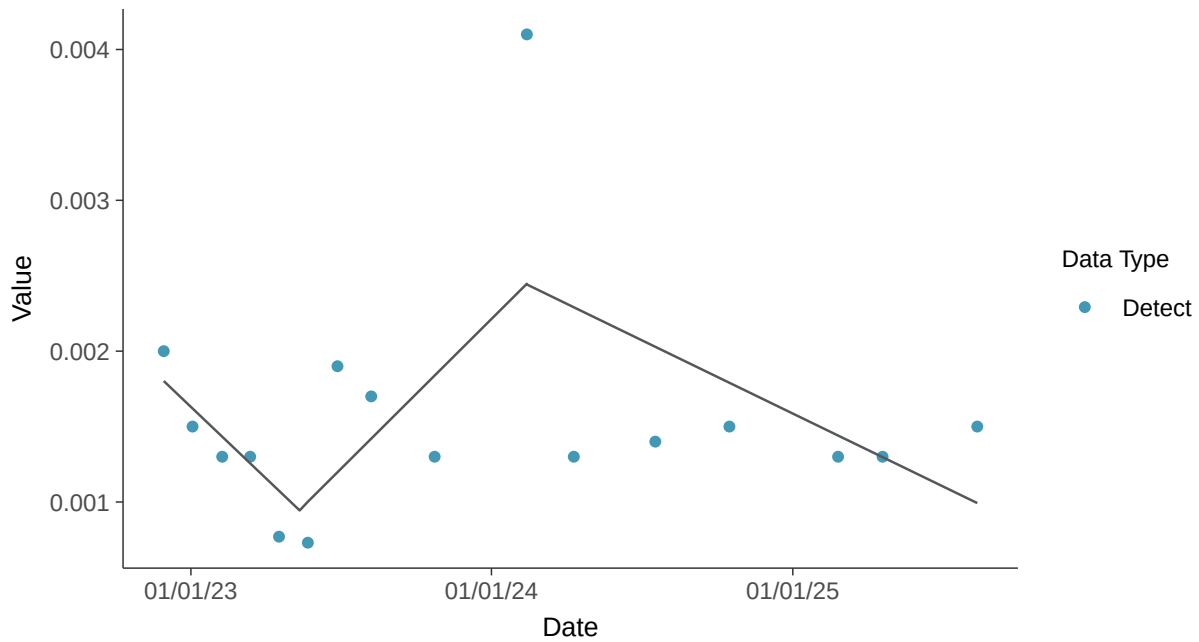
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-01R (mg/L)



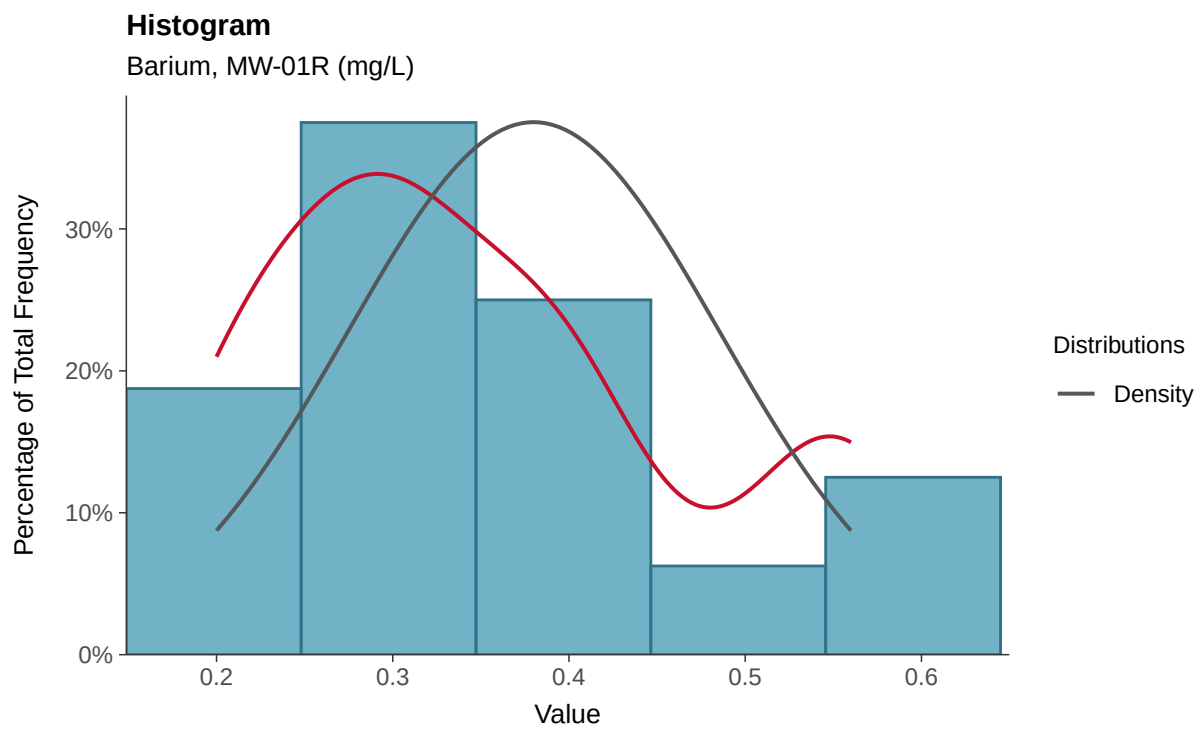
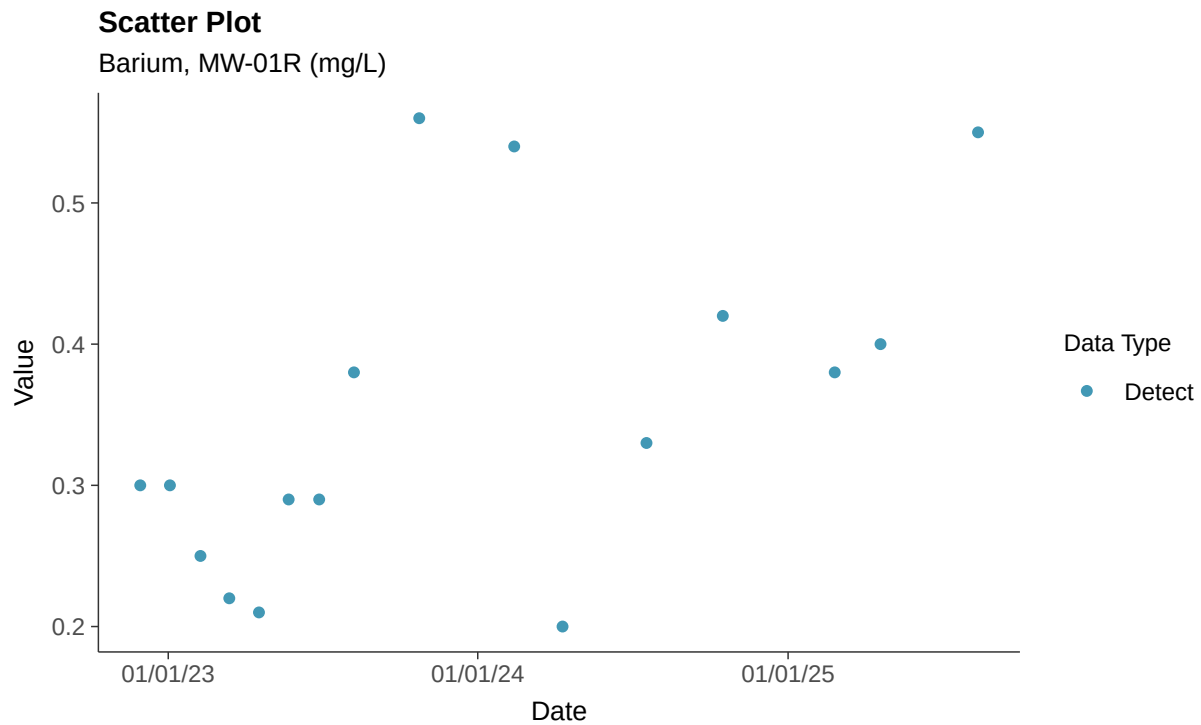
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-01R (mg/L)



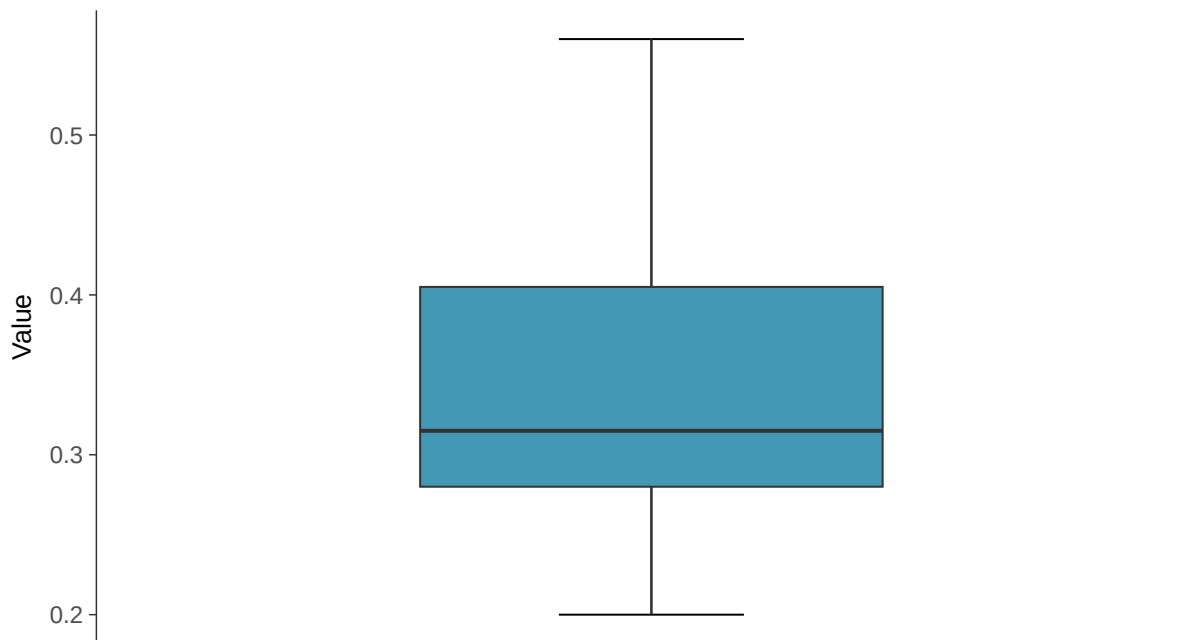
Appendix IV: Barium, MW-01R

ID: 11_2_4_103



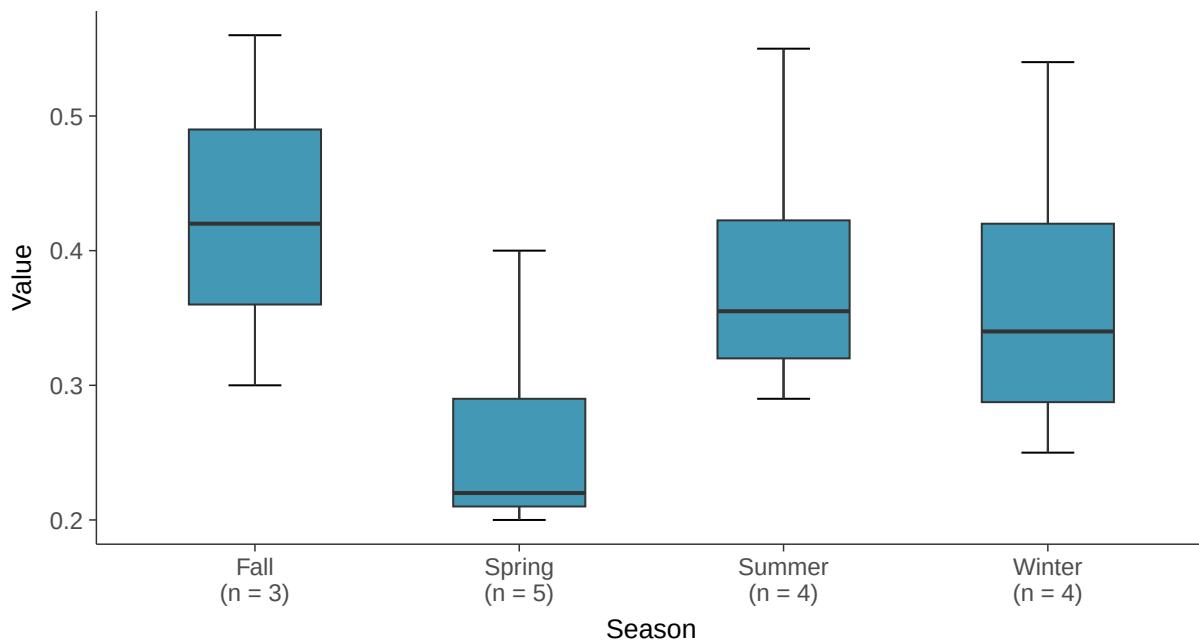
Boxplot

Barium, MW-01R (mg/L)



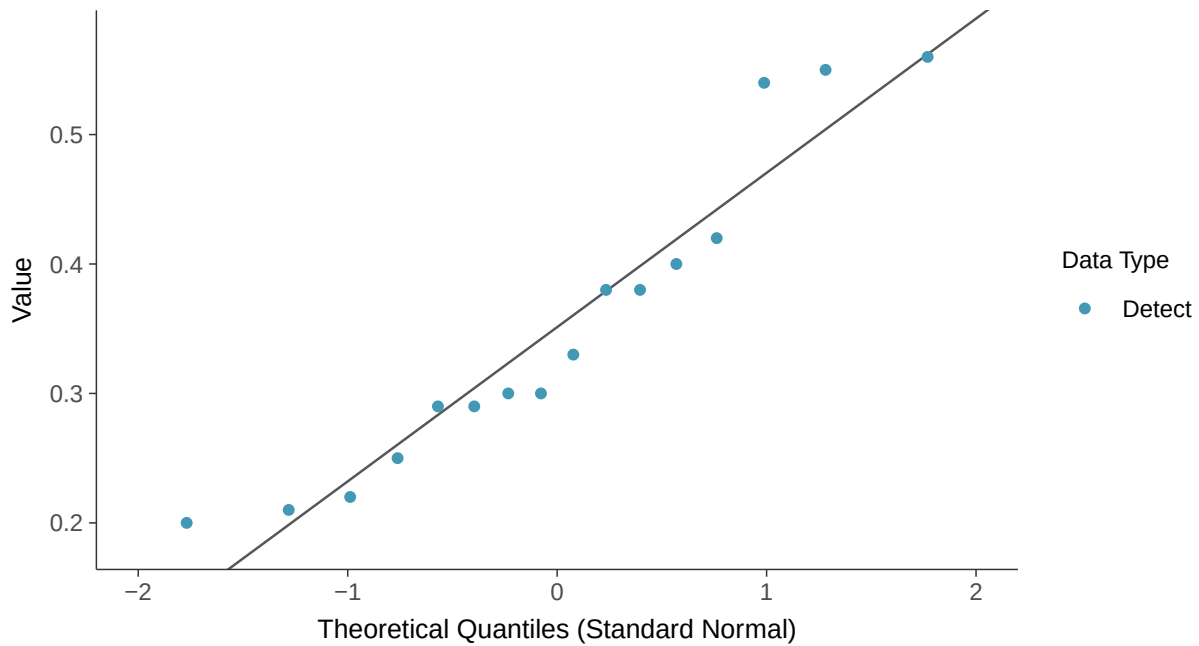
Boxplot by Season

Barium, MW-01R (mg/L)



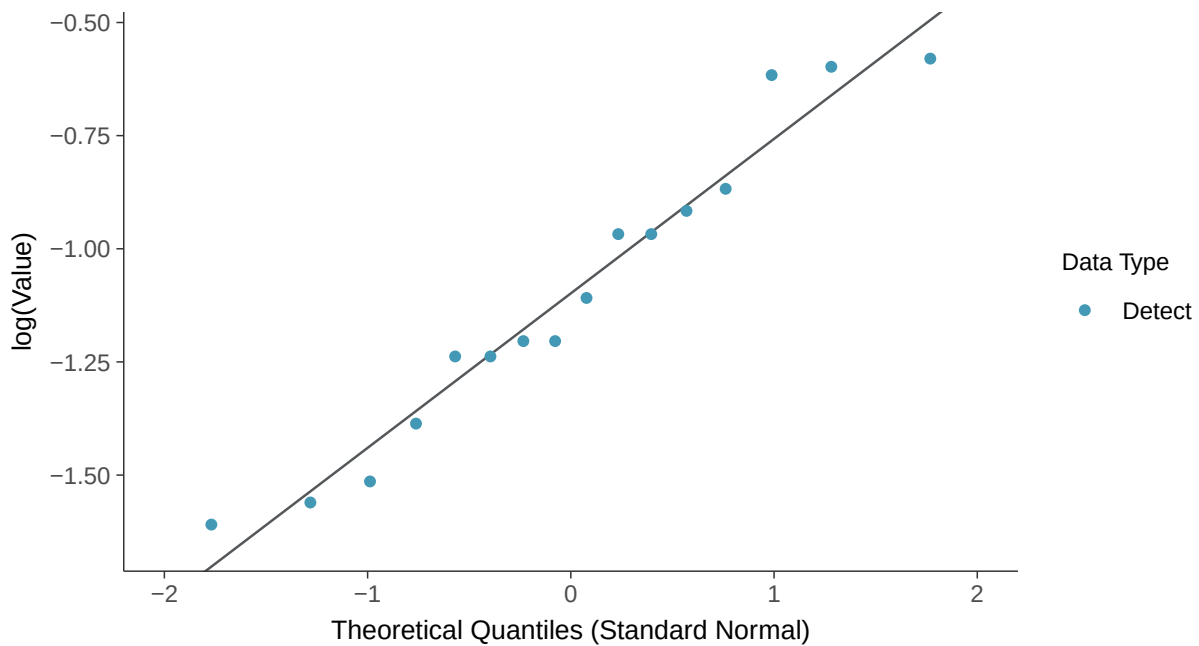
Normal Q-Q plot

Barium, MW-01R (mg/L)



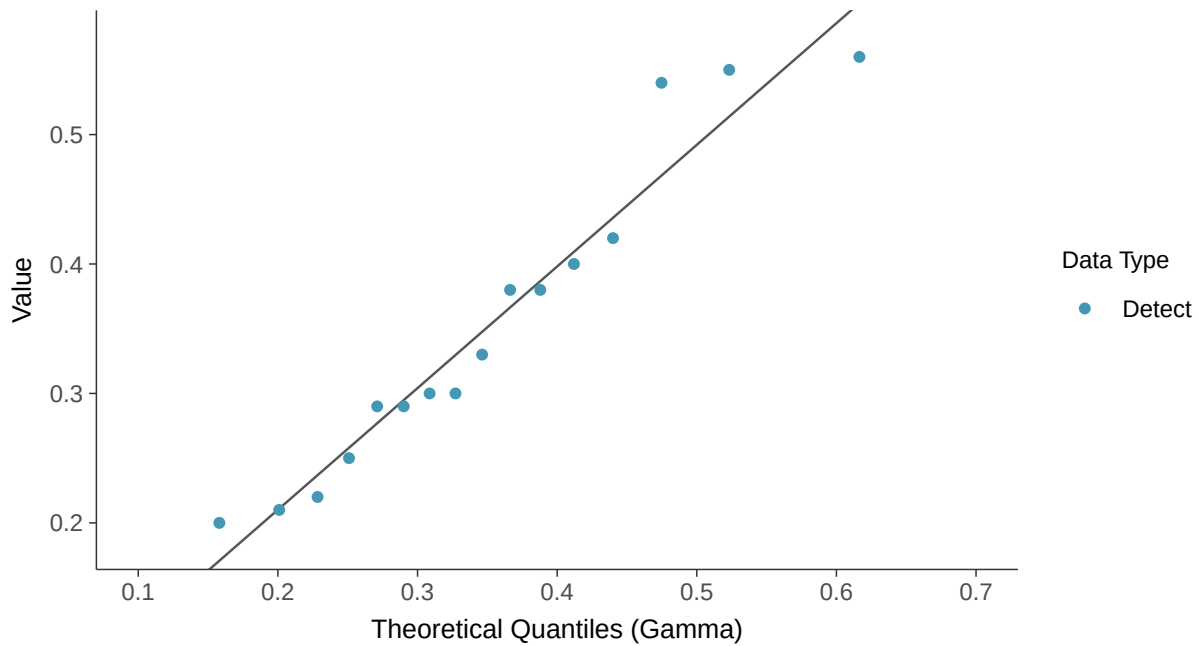
Lognormal Q-Q plot

Barium, MW-01R (mg/L)



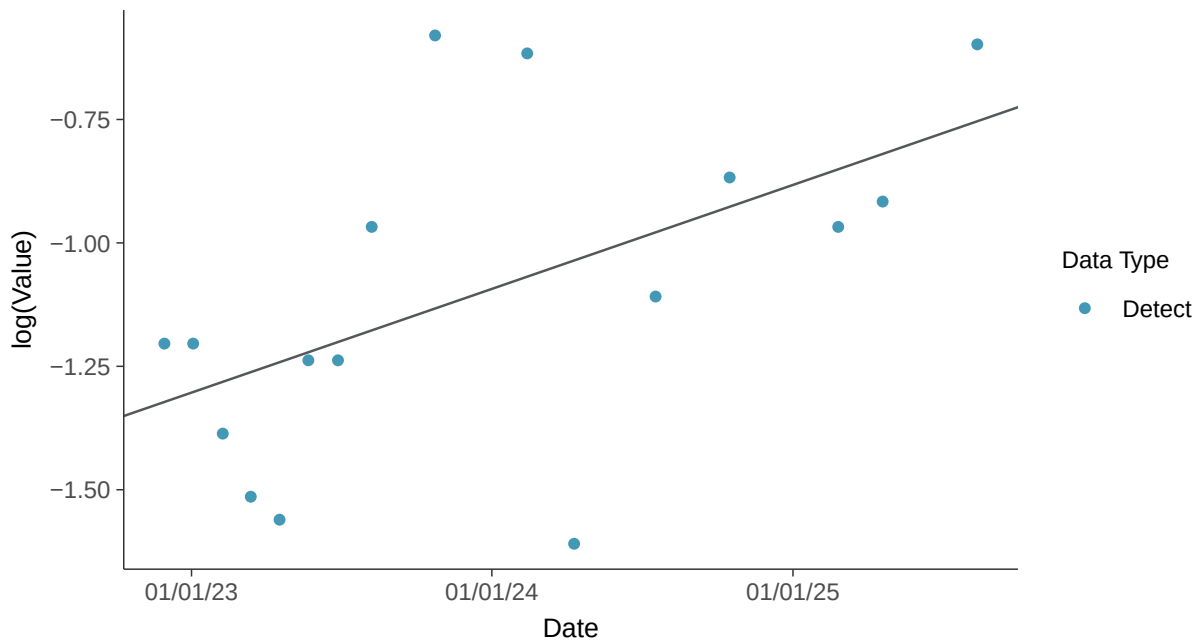
Gamma Q-Q plot

Barium, MW-01R (mg/L)



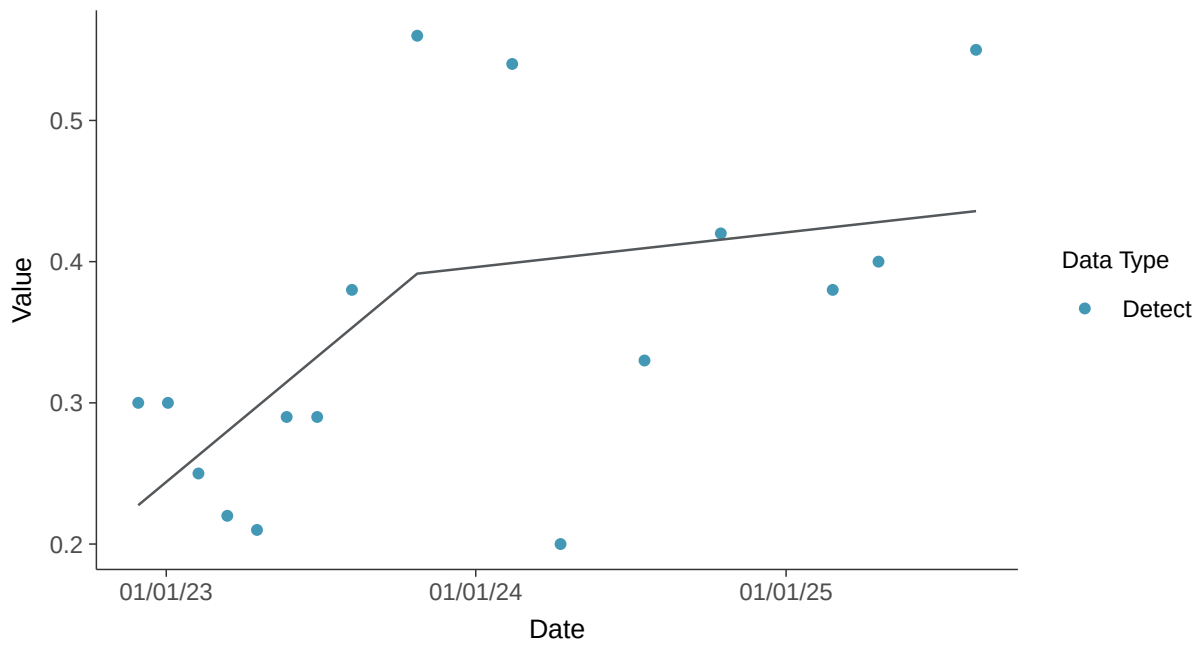
Trend Regression: Lognormal MLE

Barium, MW-01R (mg/L)



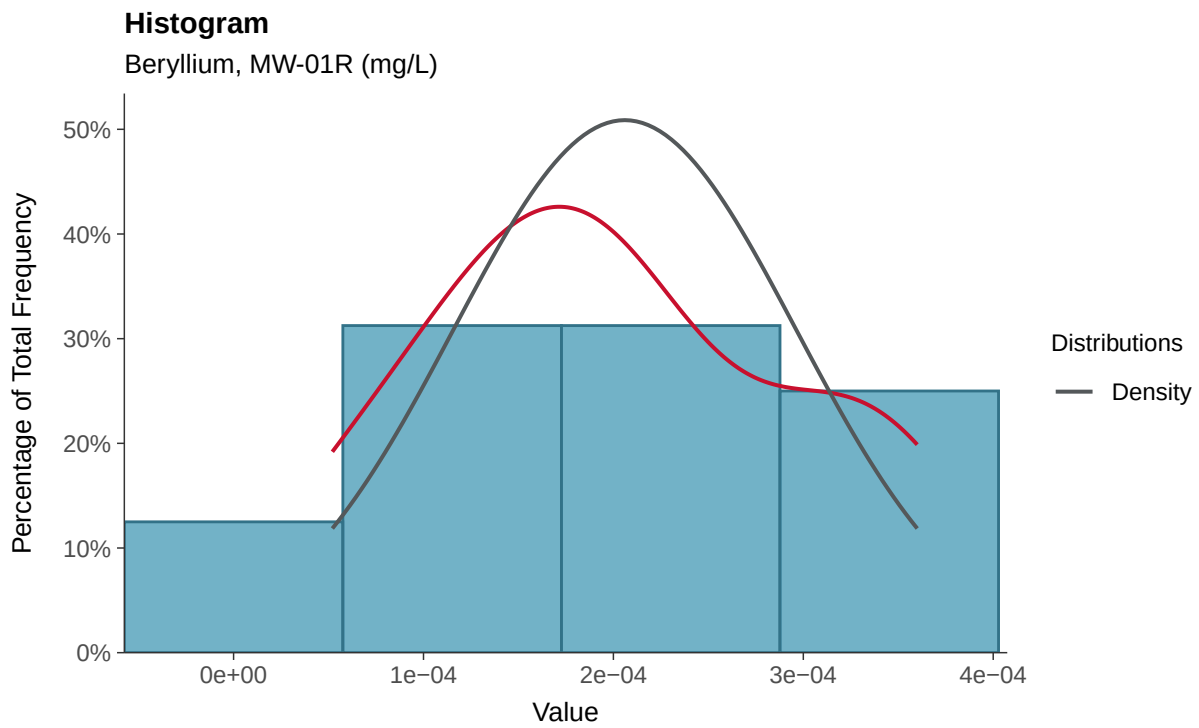
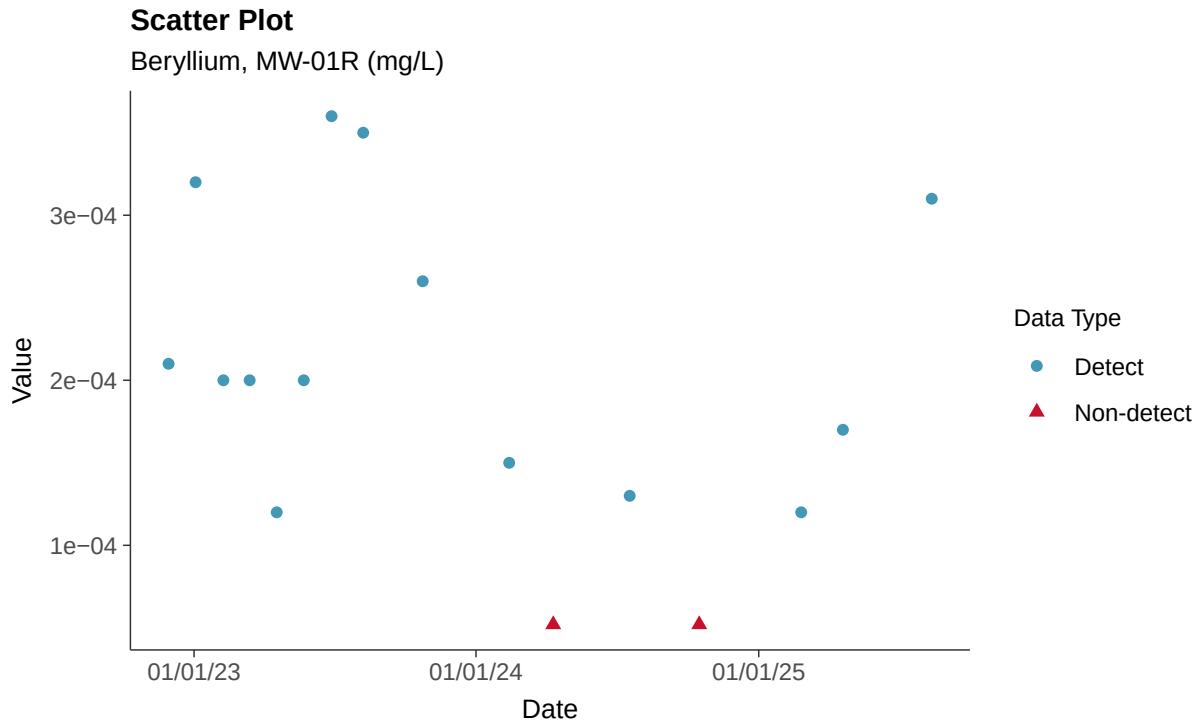


Trend Regression: Piecewise Linear-Linear
Barium, MW-01R (mg/L)



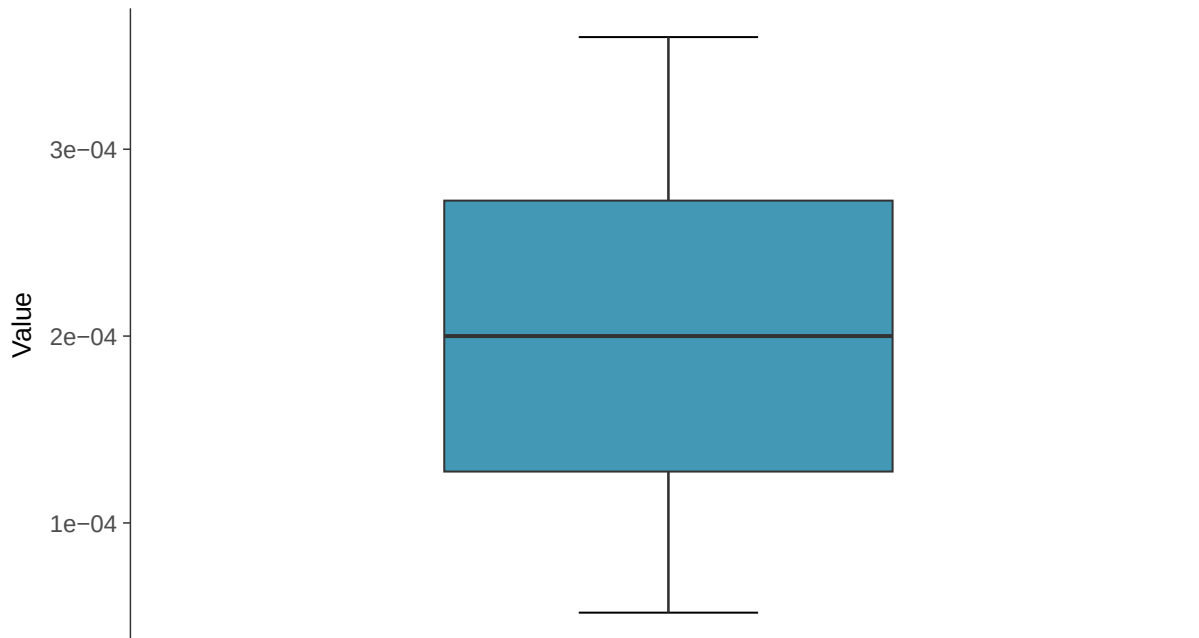
Appendix IV: Beryllium, MW-01R

ID: 11_2_4_104



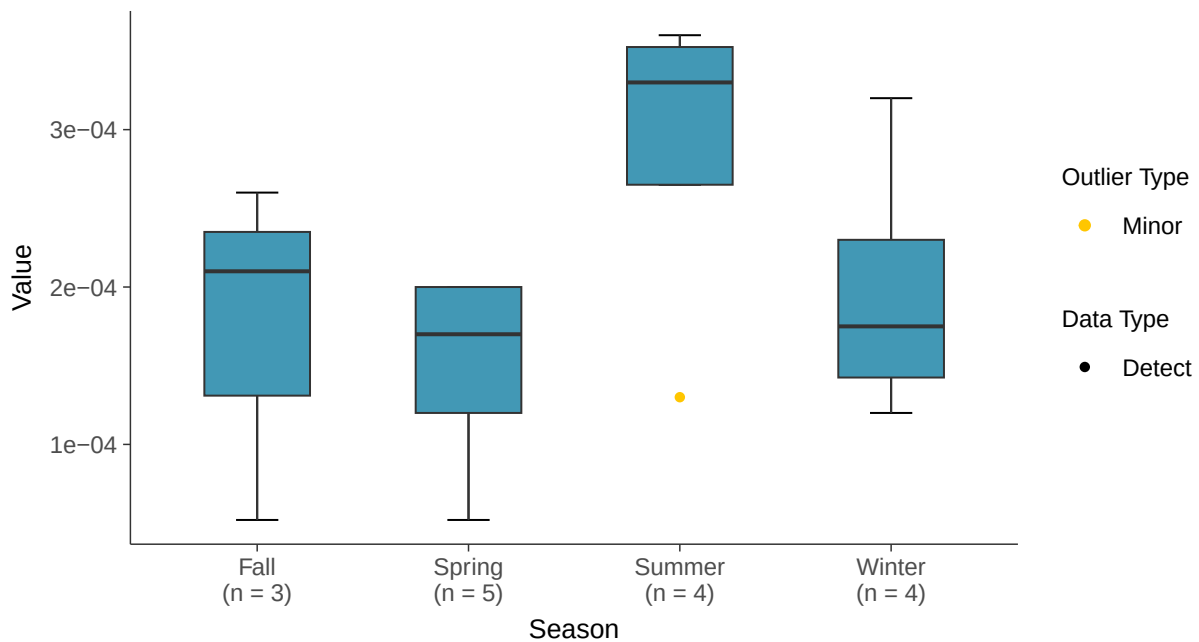
Boxplot

Beryllium, MW-01R (mg/L)



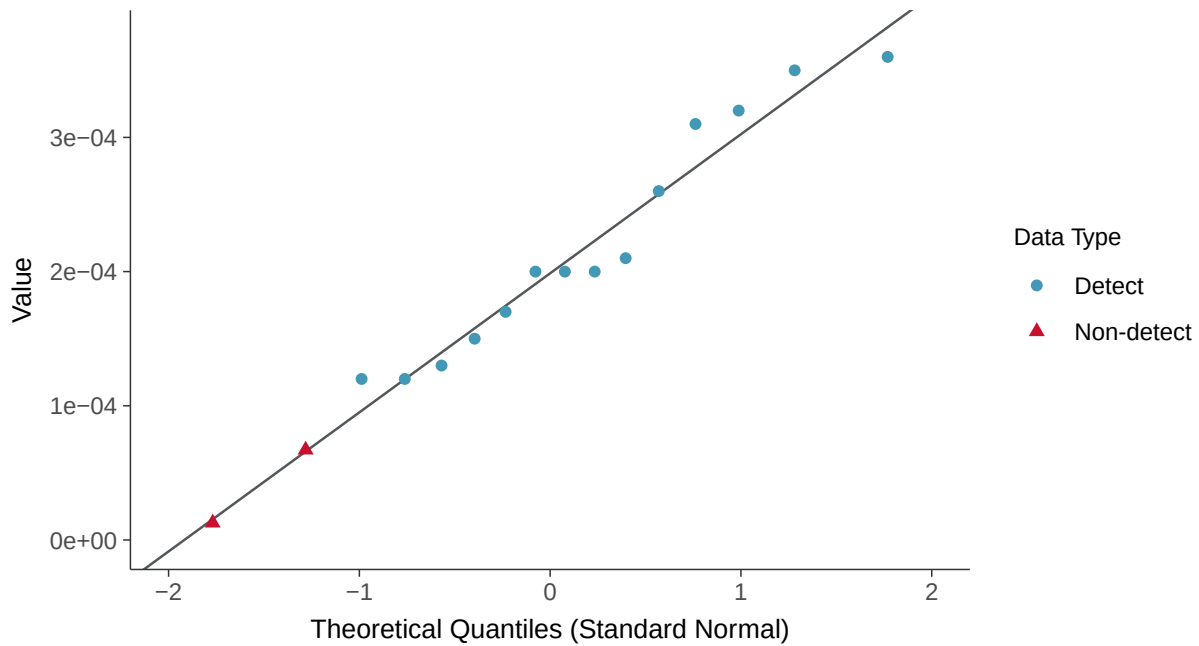
Boxplot by Season

Beryllium, MW-01R (mg/L)



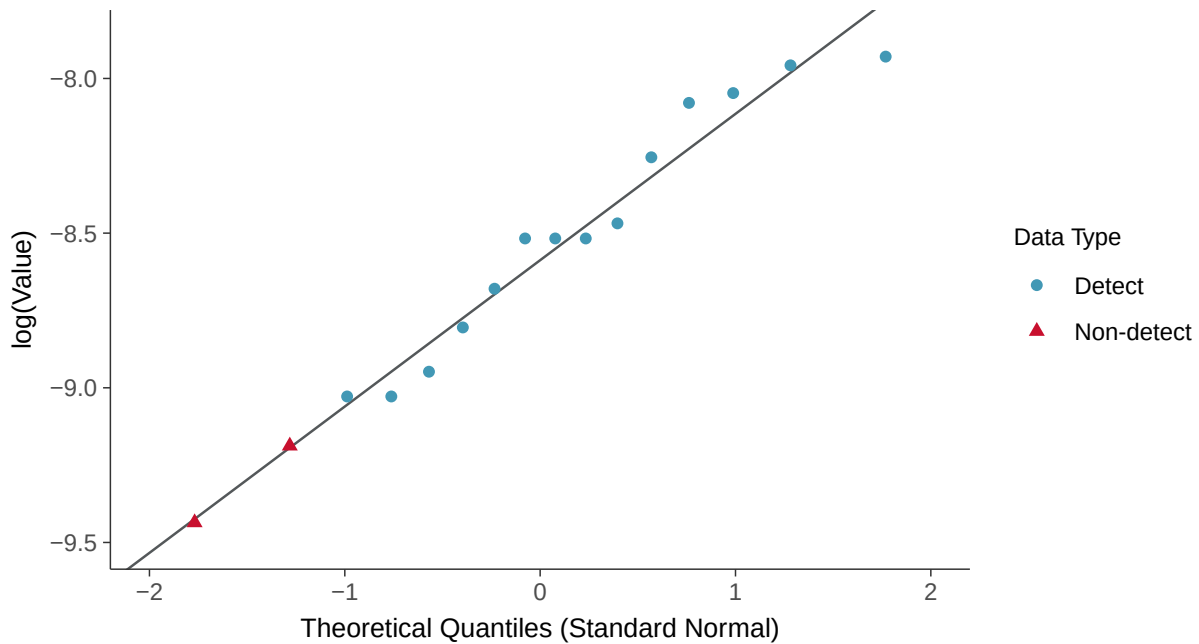
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-01R (mg/L)

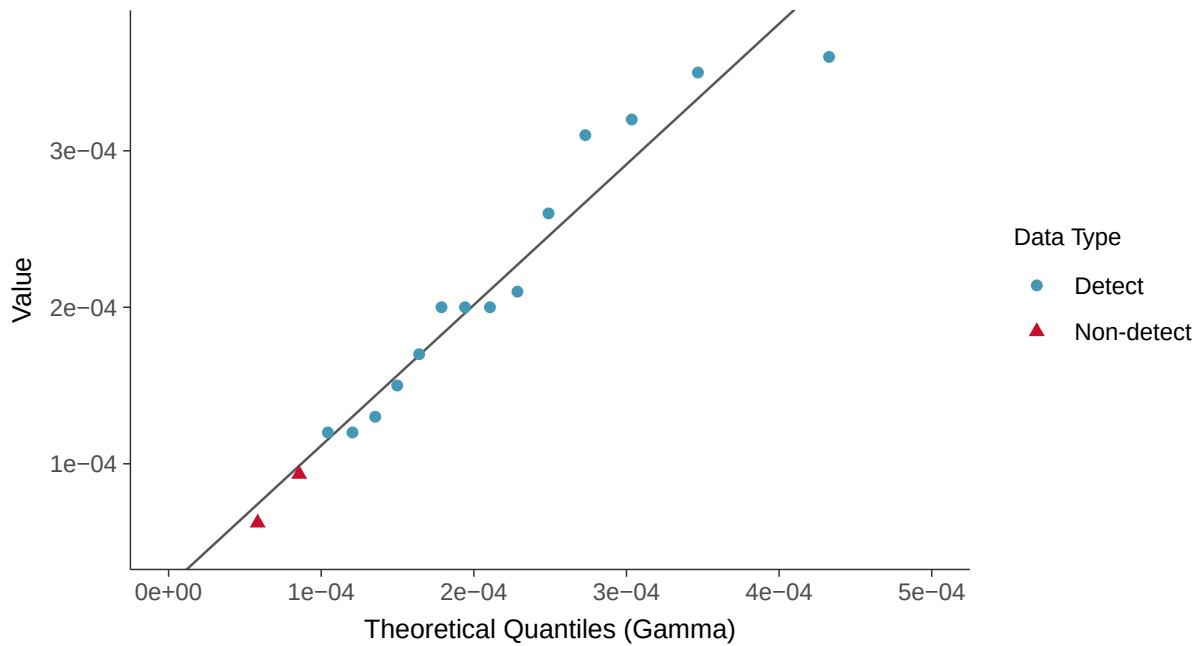


Lognormal Q-Q plot using ROS Imputed Estimates

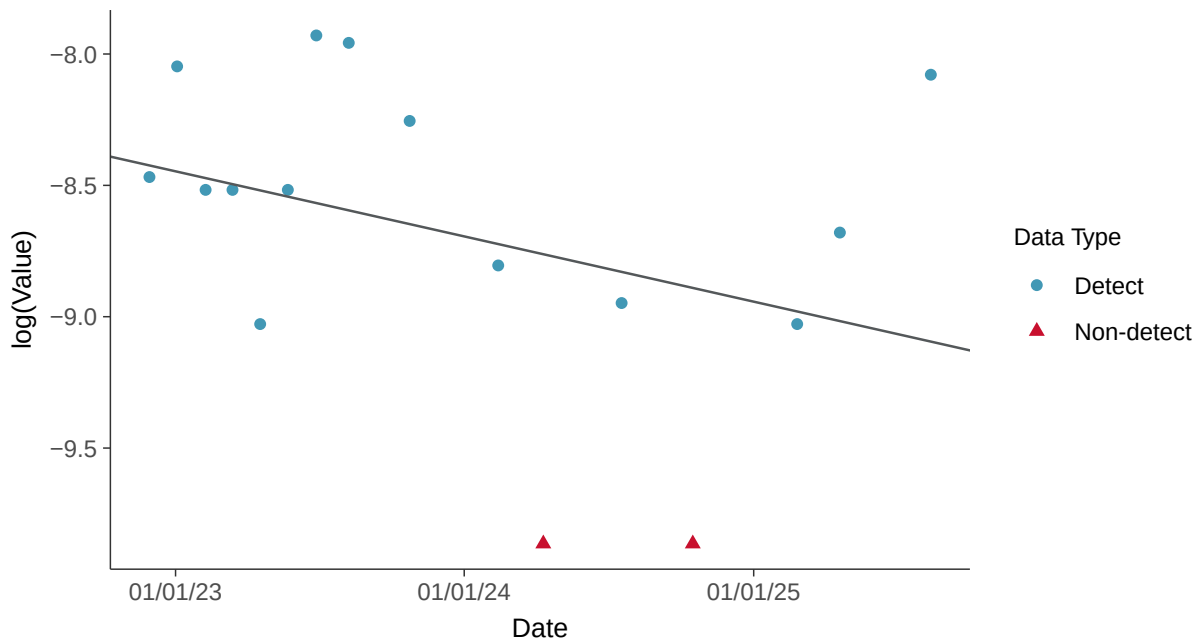
Beryllium, MW-01R (mg/L)



Beryllium, MW-01R (mg/L)

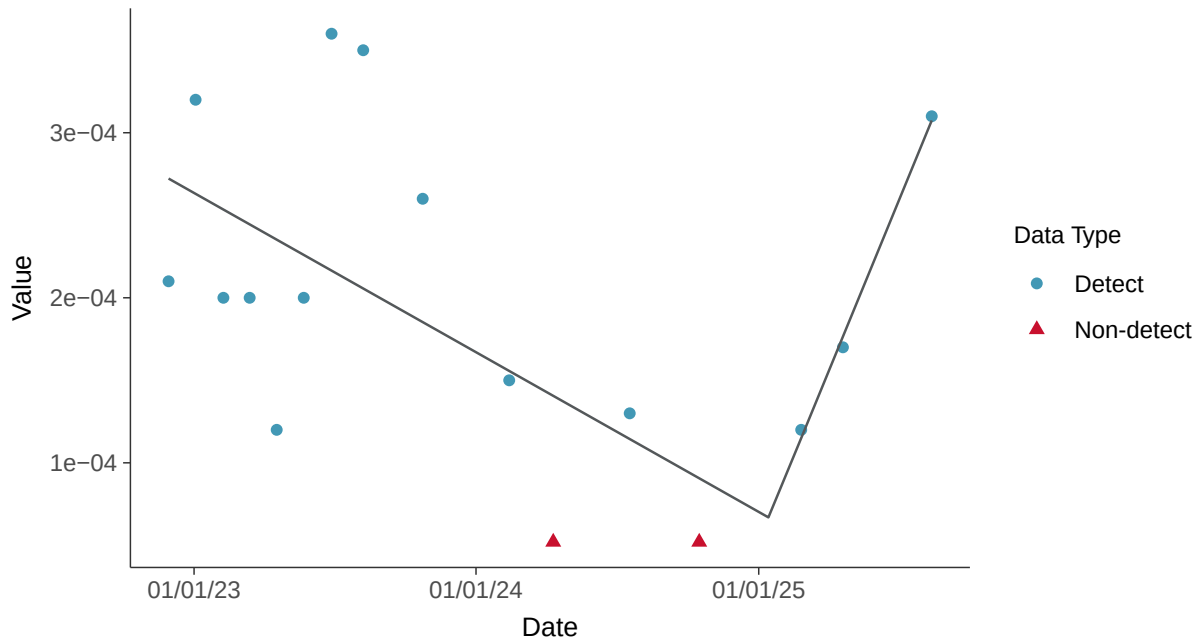


Beryllium, MW-01R (mg/L)



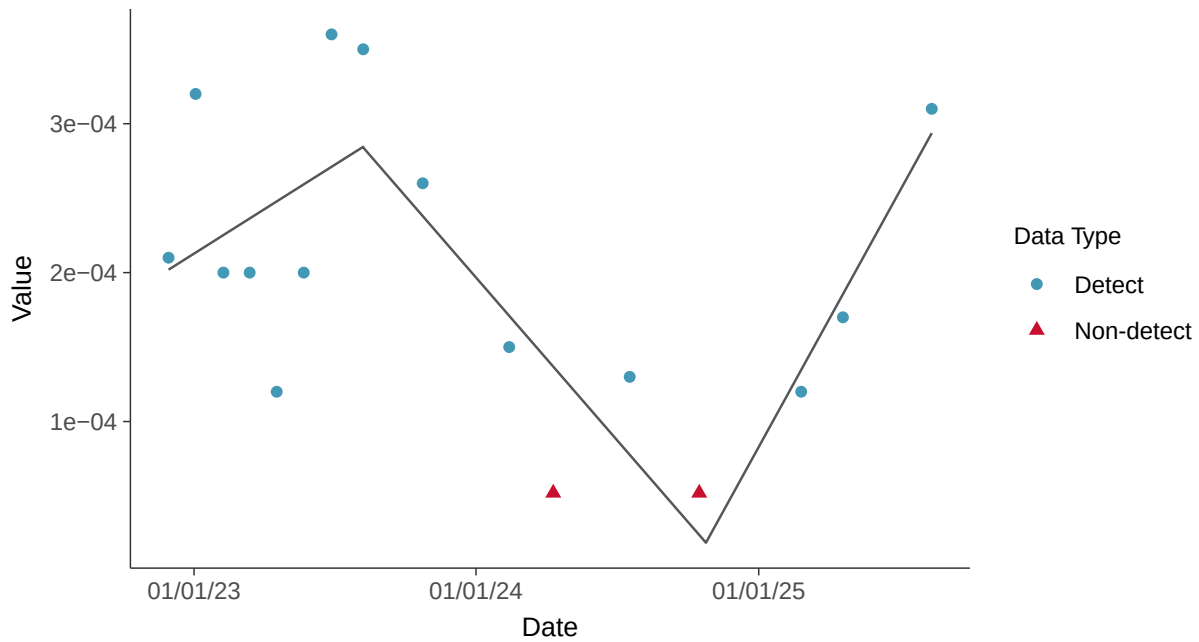
Trend Regression: Piecewise Linear-Linear

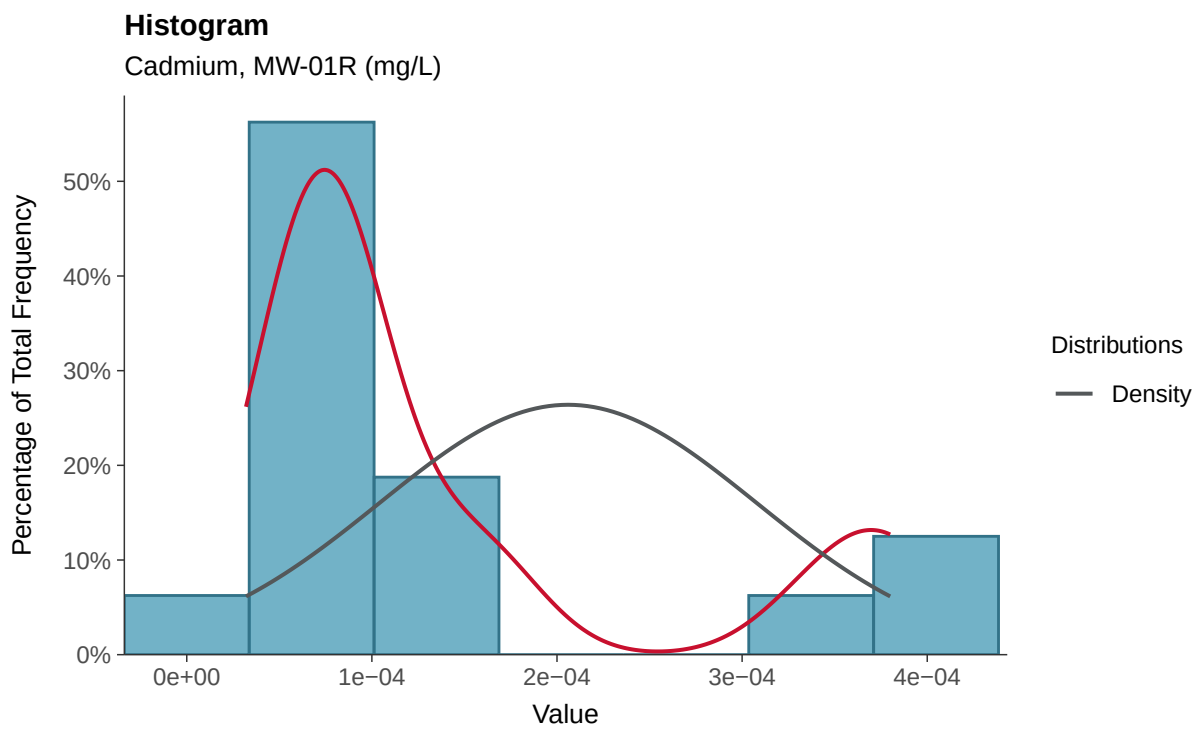
Beryllium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

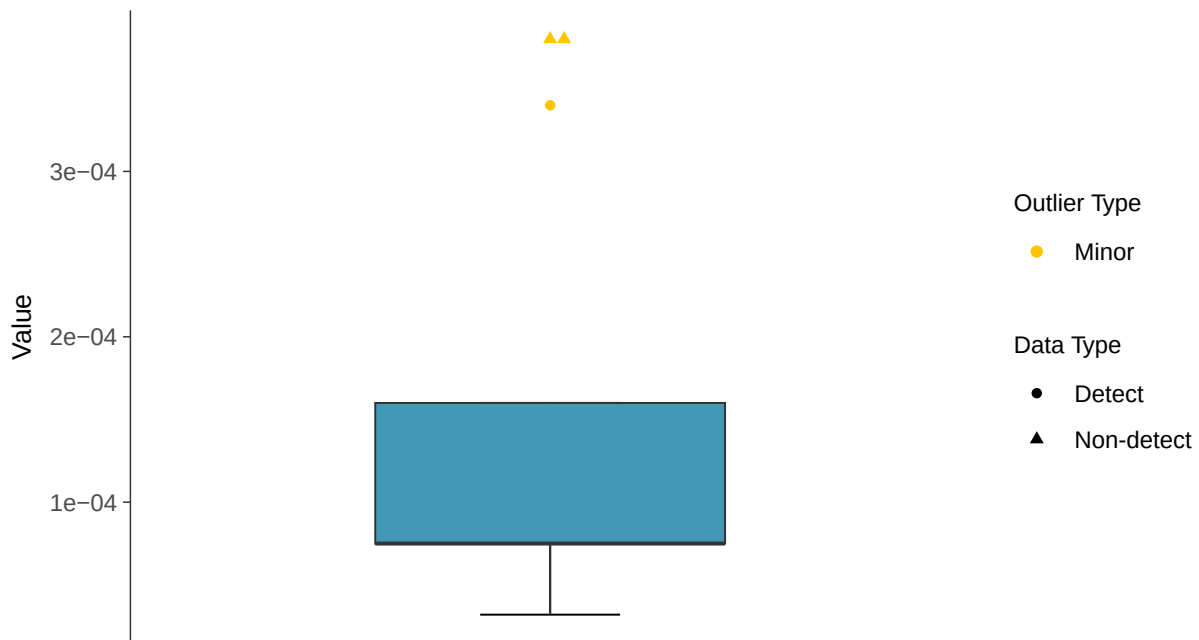
Beryllium, MW-01R (mg/L)





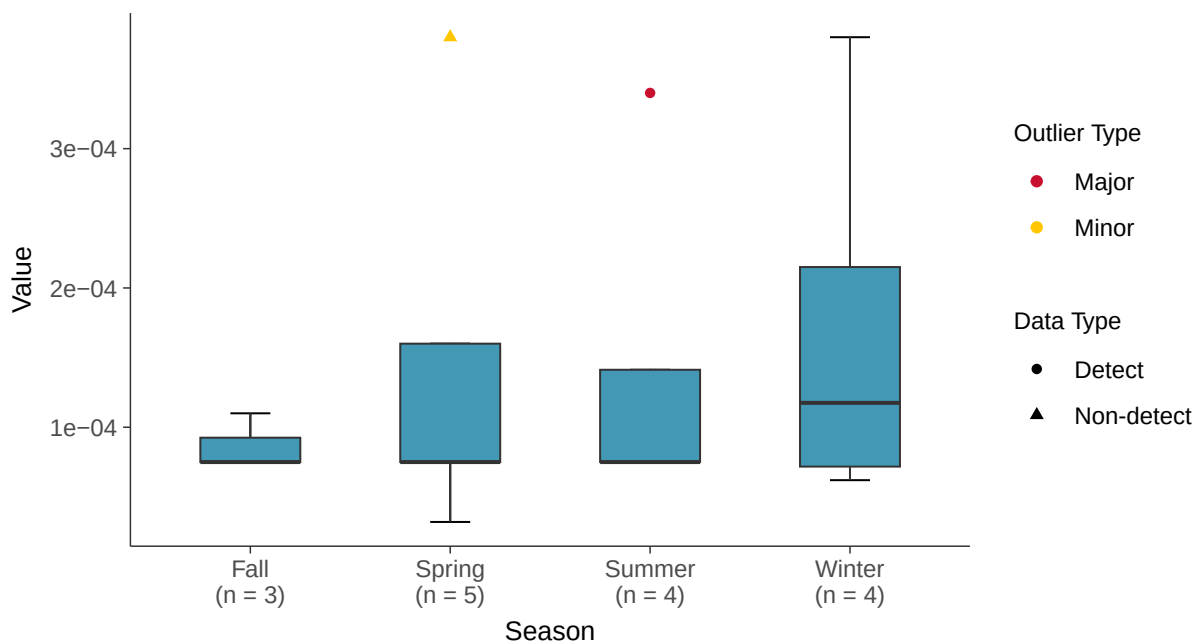
Boxplot

Cadmium, MW-01R (mg/L)



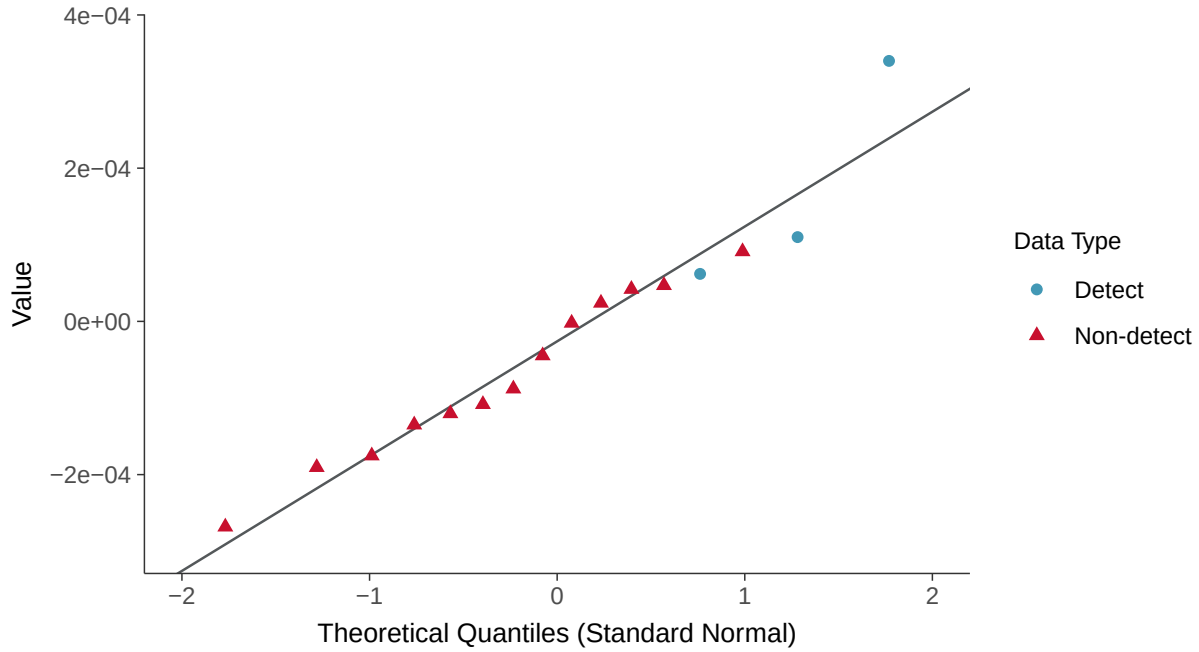
Boxplot by Season

Cadmium, MW-01R (mg/L)



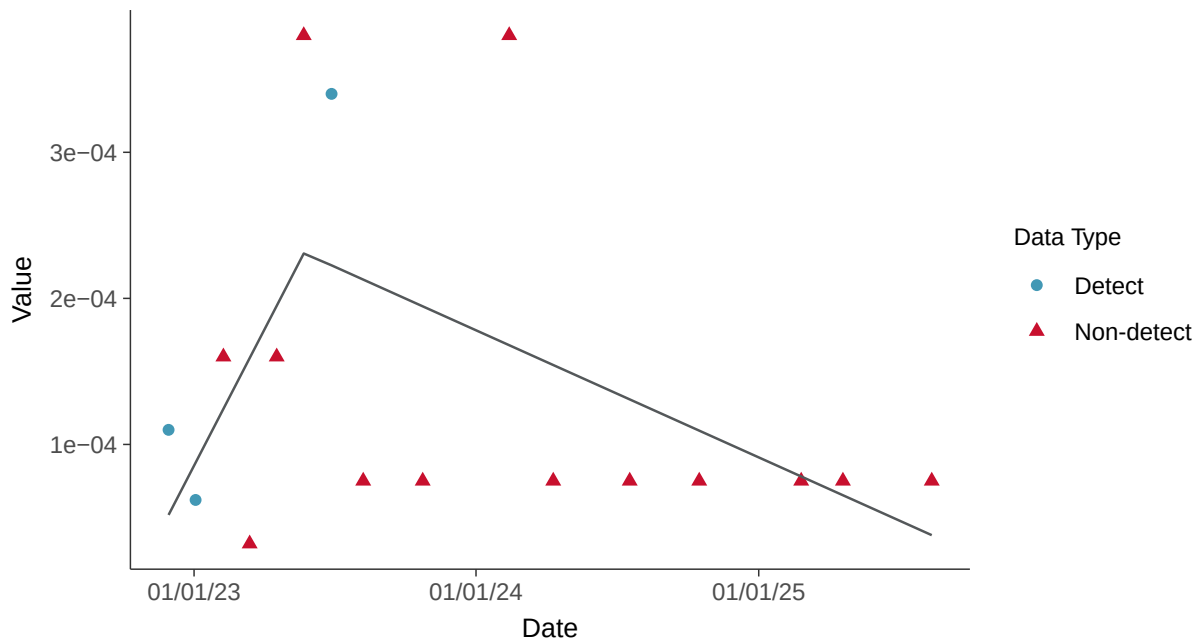
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-01R (mg/L)



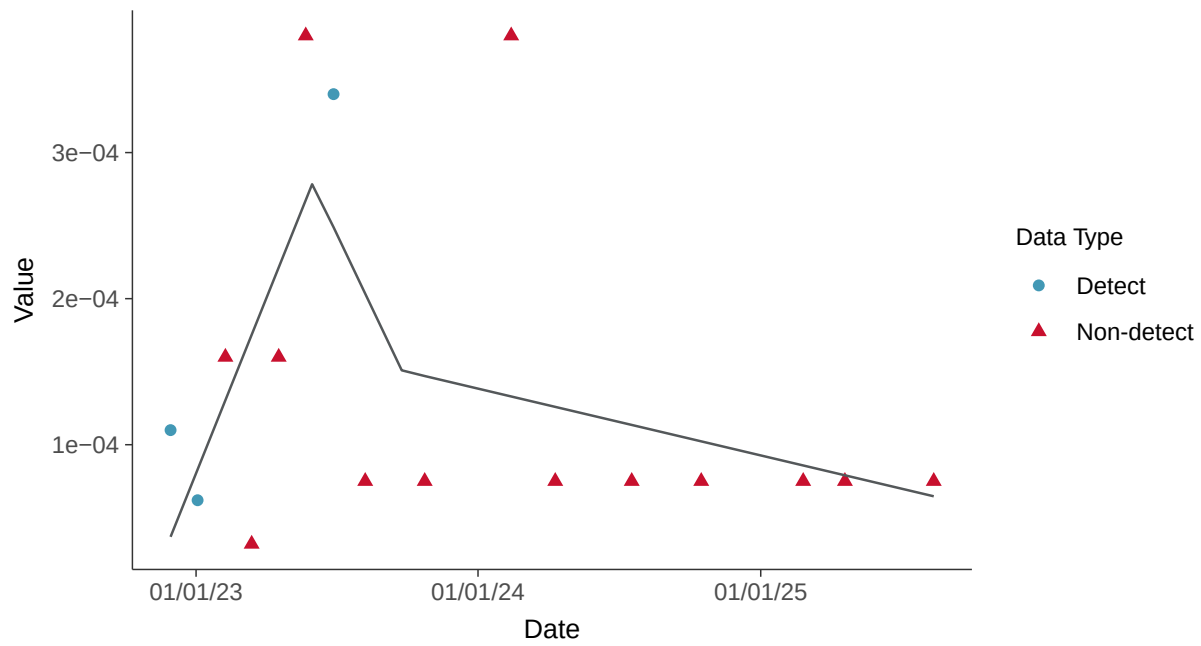
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-01R (mg/L)

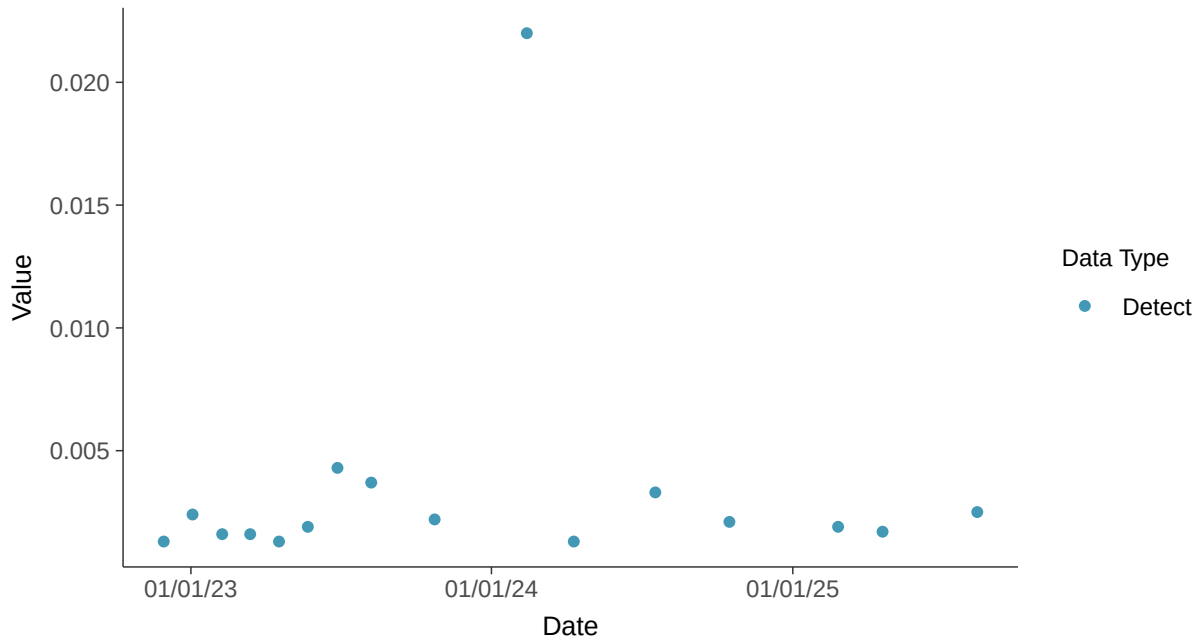


Appendix IV: Chromium, Total, MW-01R

ID: 11_2_4_109

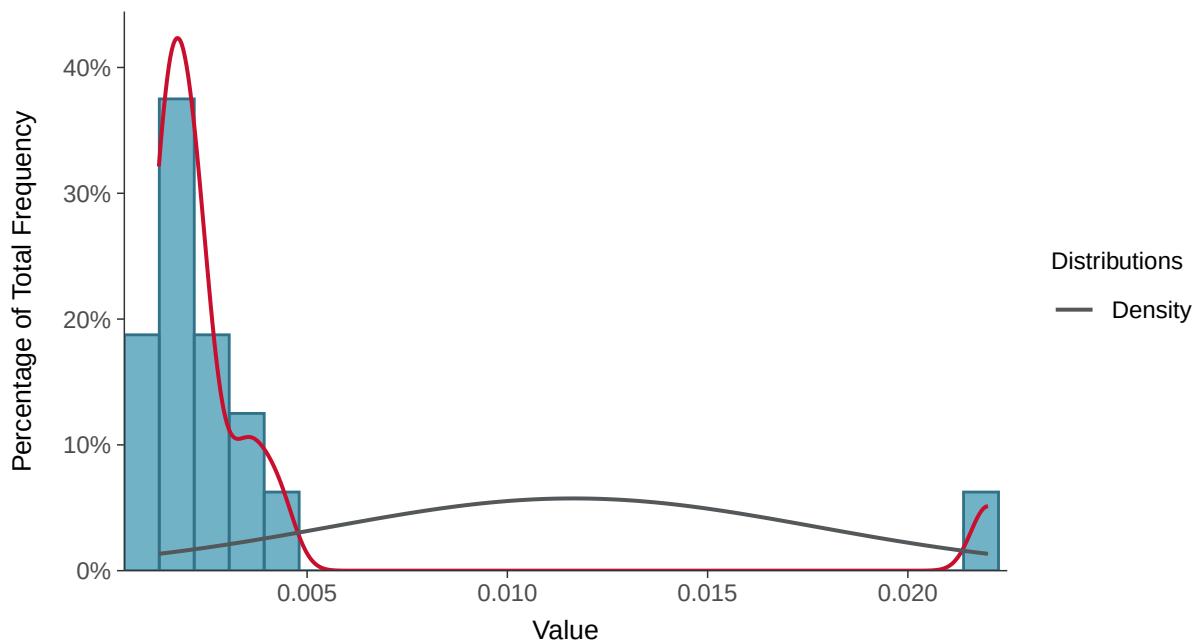
Scatter Plot

Chromium, Total, MW-01R (mg/L)



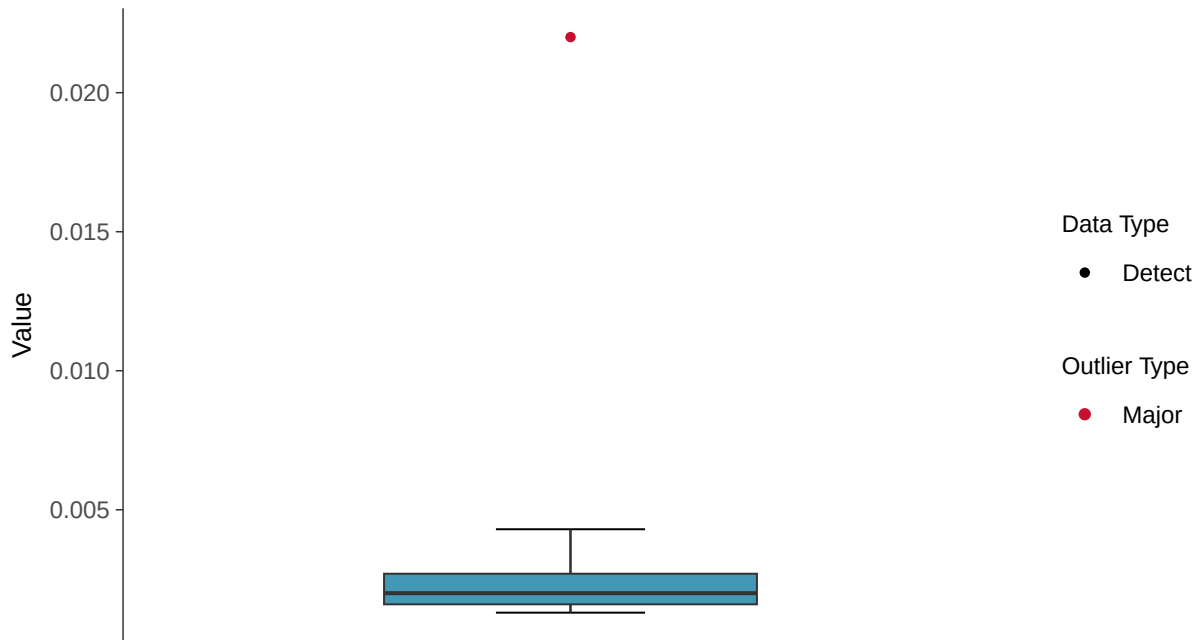
Histogram

Chromium, Total, MW-01R (mg/L)



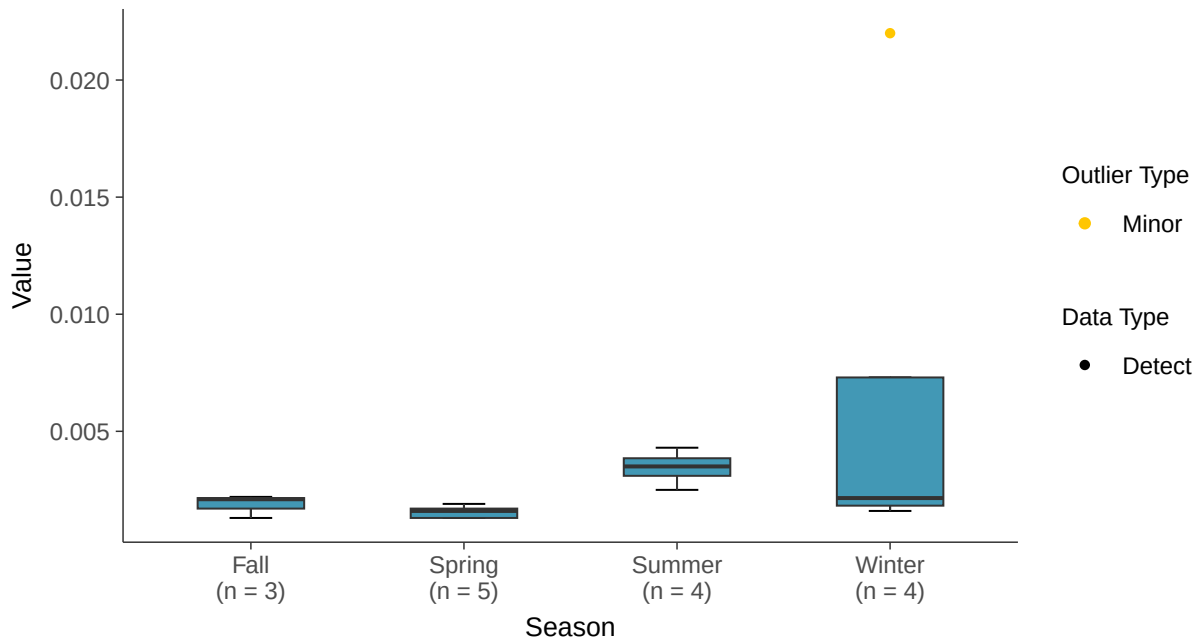
Boxplot

Chromium, Total, MW-01R (mg/L)



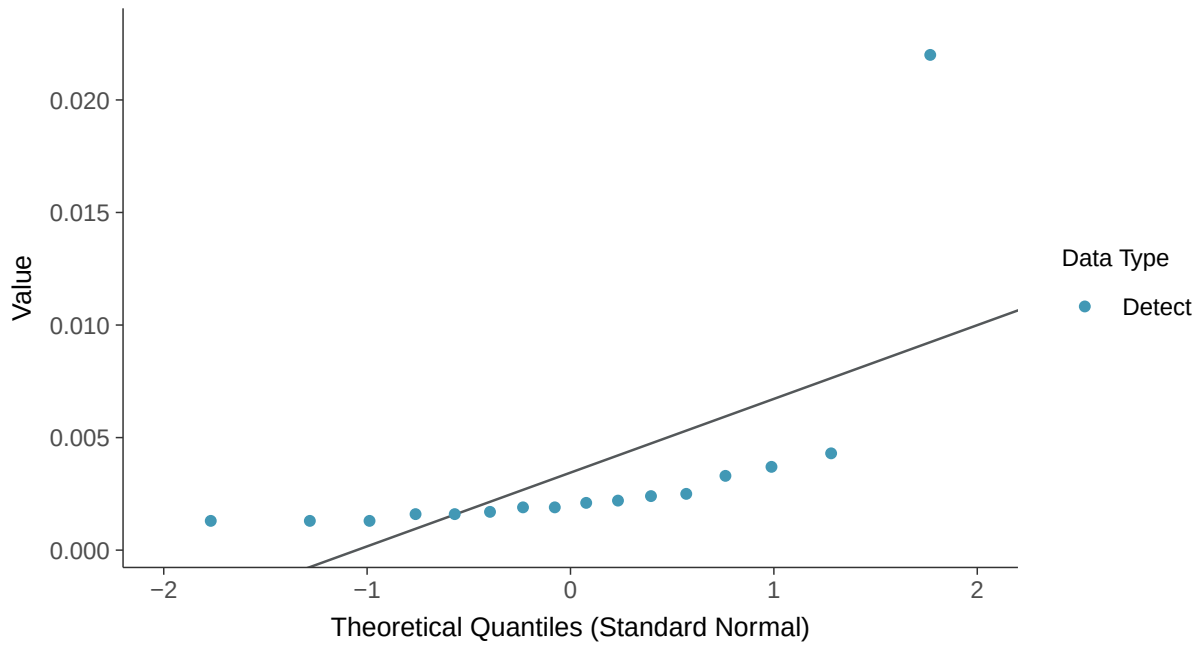
Boxplot by Season

Chromium, Total, MW-01R (mg/L)



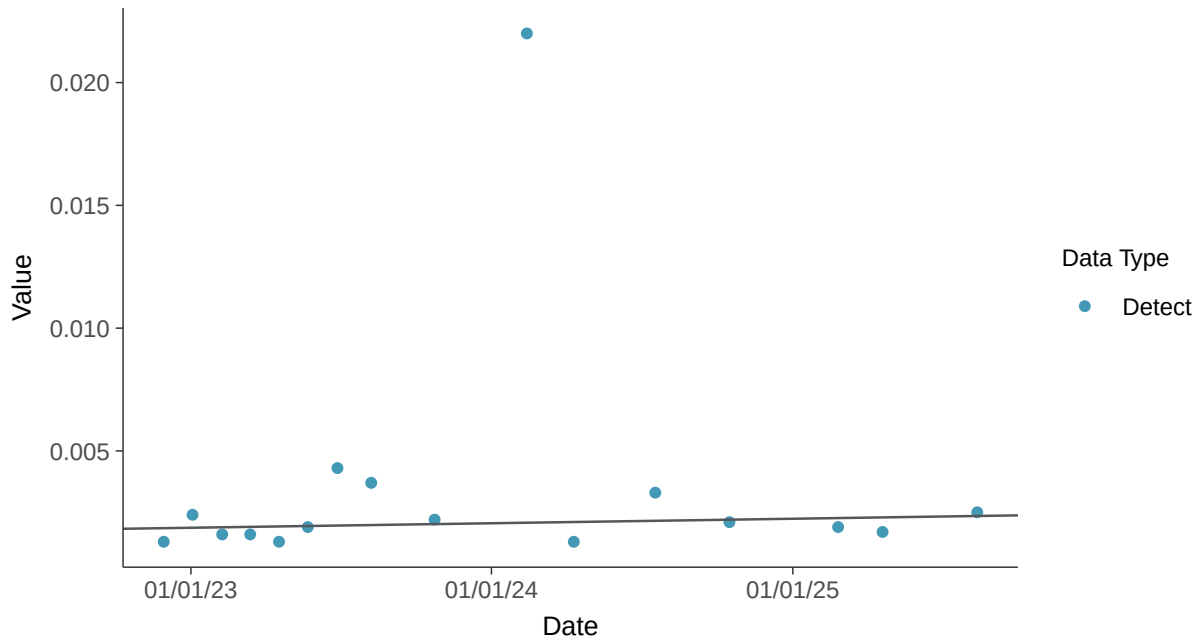
Normal Q-Q plot

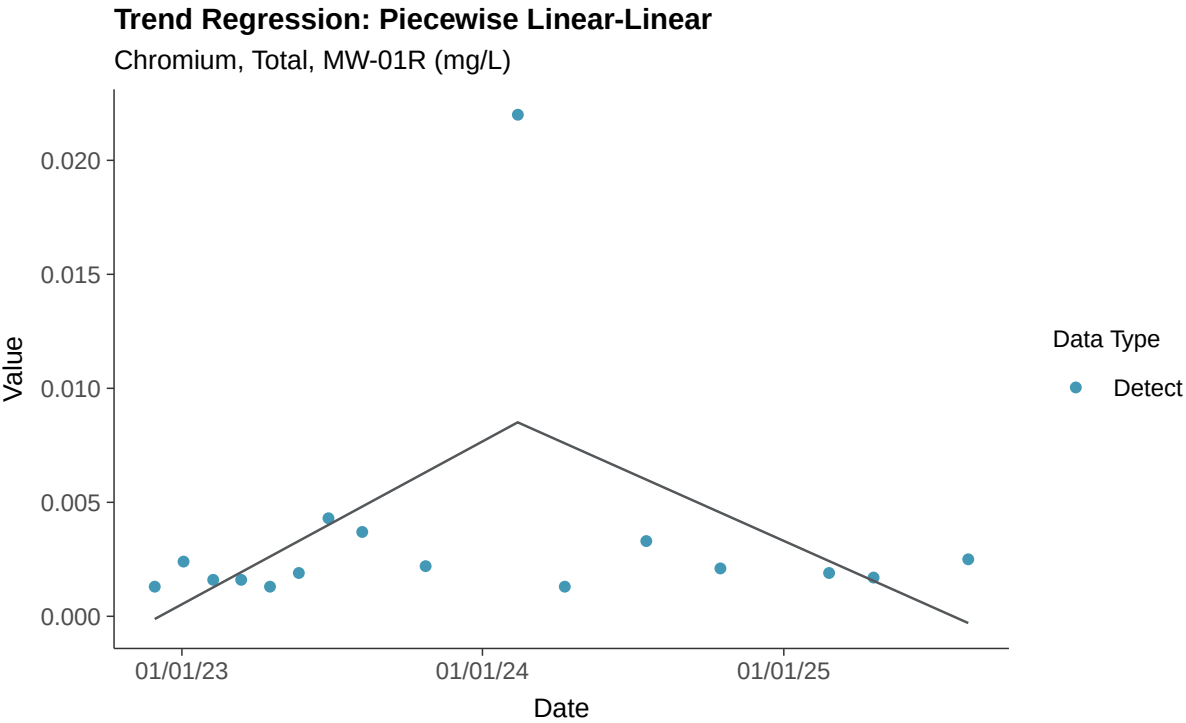
Chromium, Total, MW-01R (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

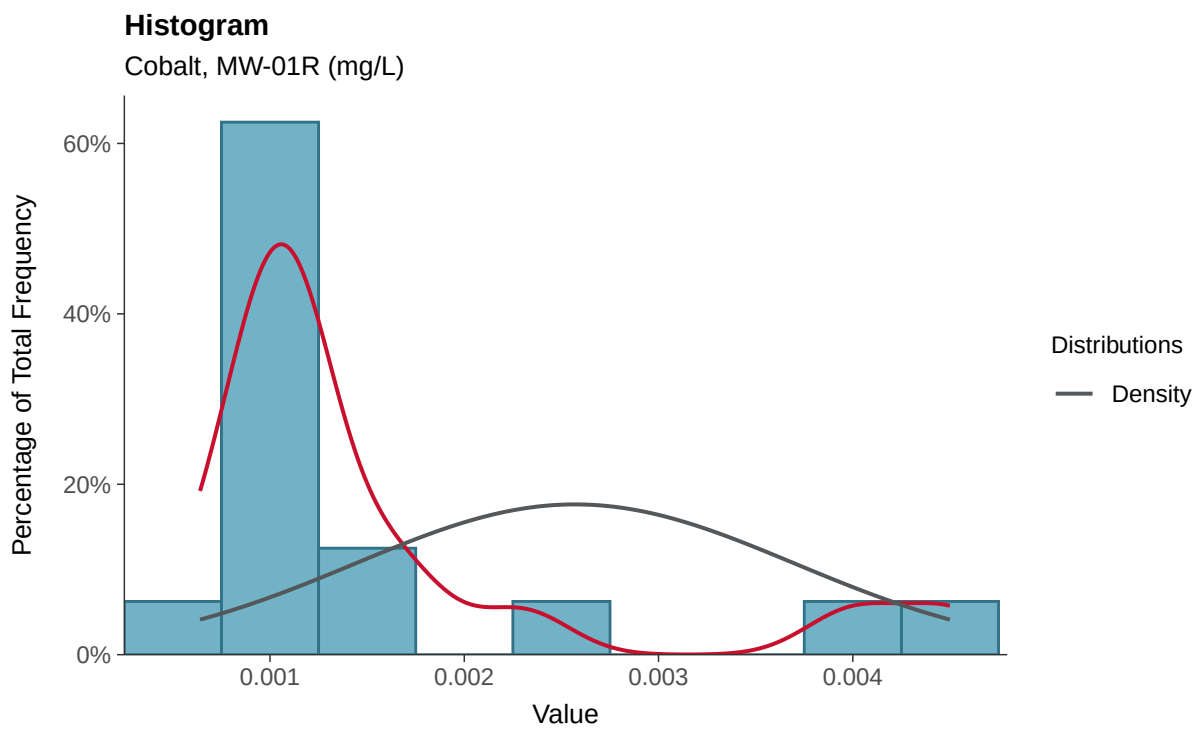
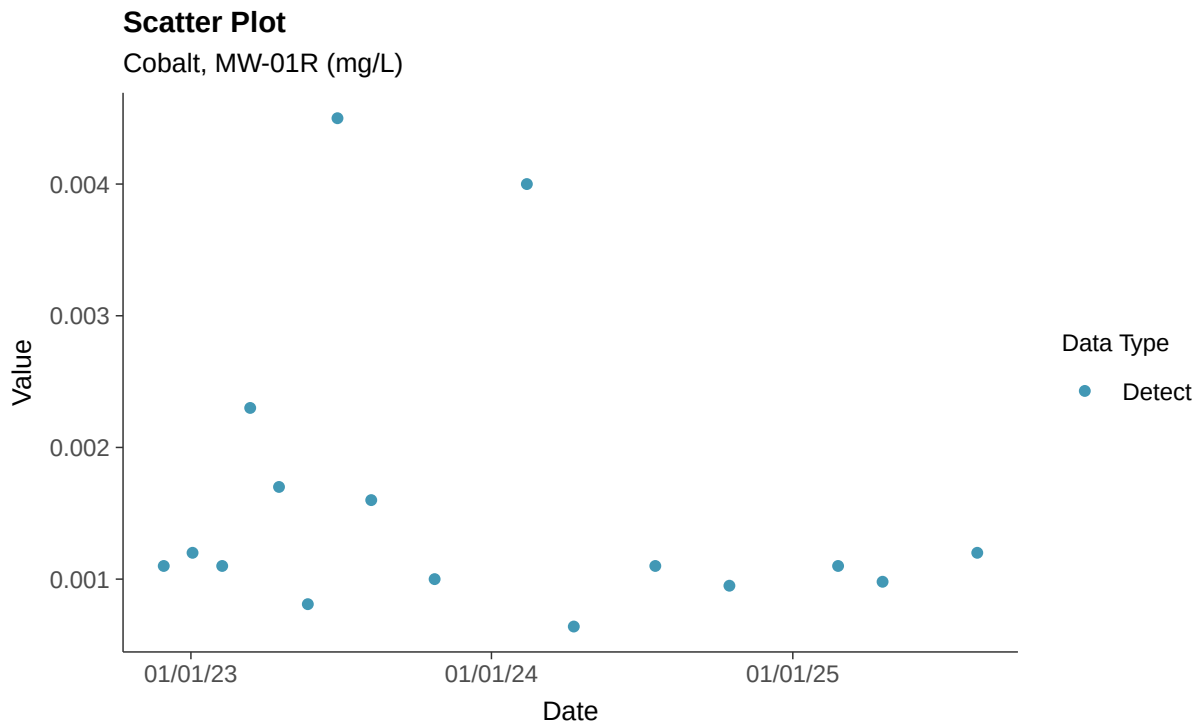
Chromium, Total, MW-01R (mg/L)





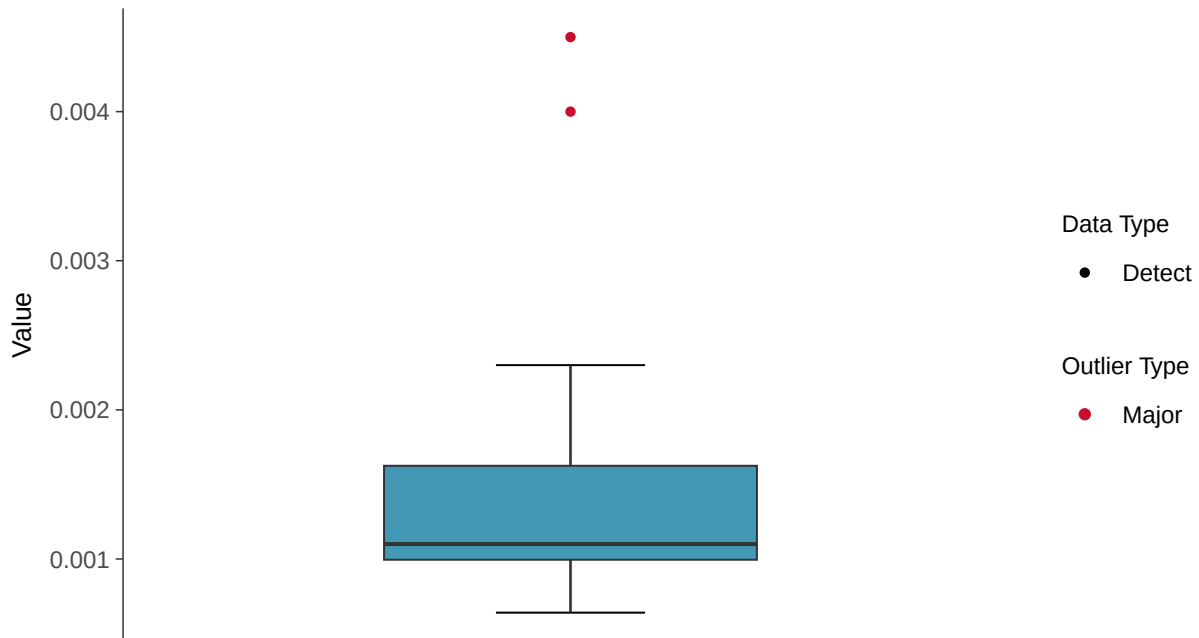
Appendix IV: Cobalt, MW-01R

ID: 11_2_4_110



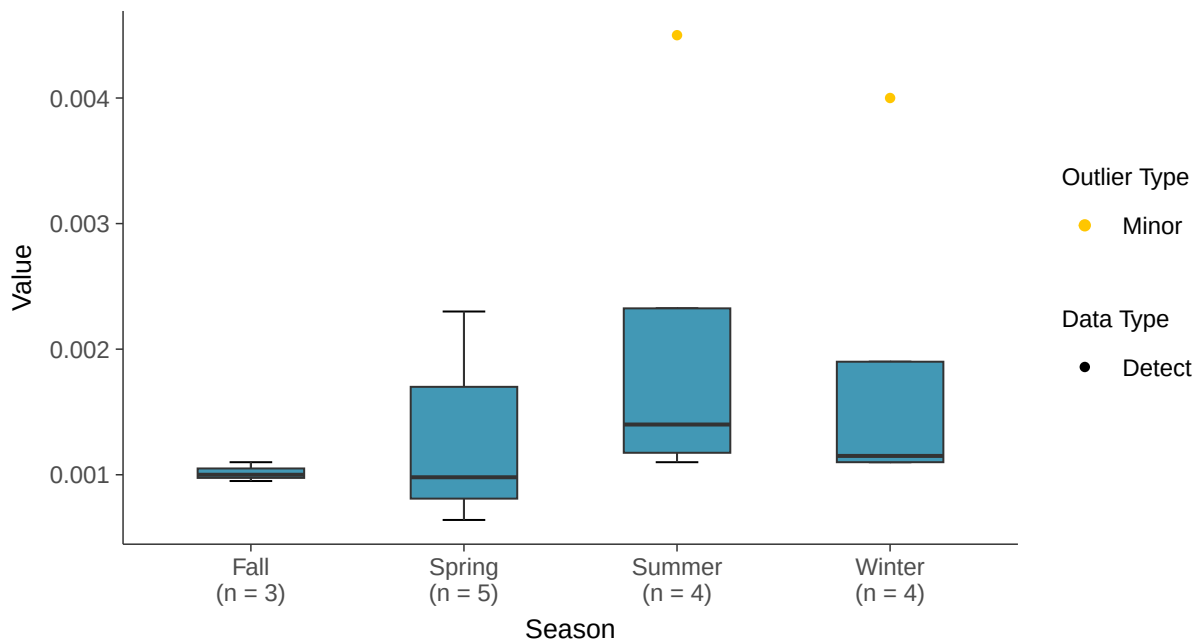
Boxplot

Cobalt, MW-01R (mg/L)



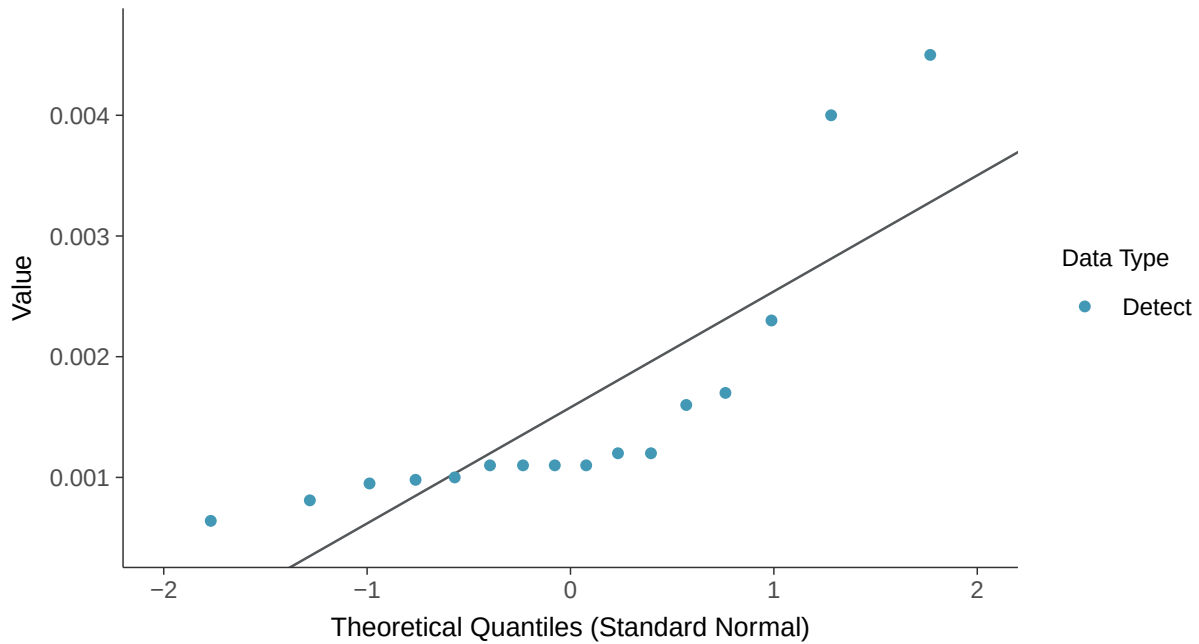
Boxplot by Season

Cobalt, MW-01R (mg/L)



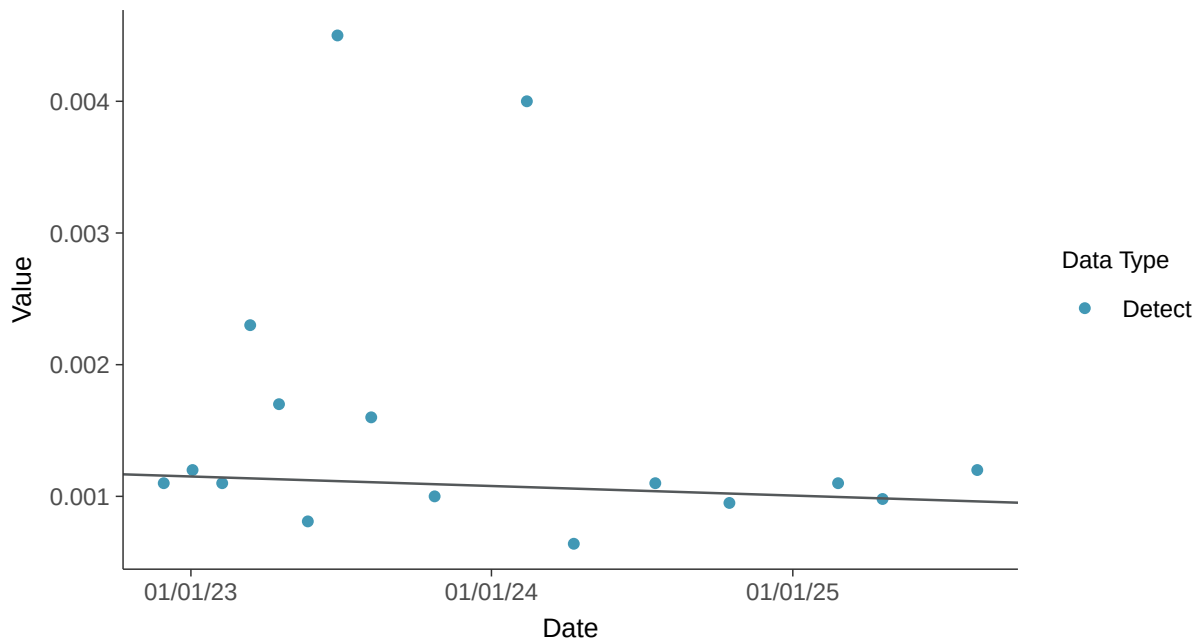
Normal Q-Q plot

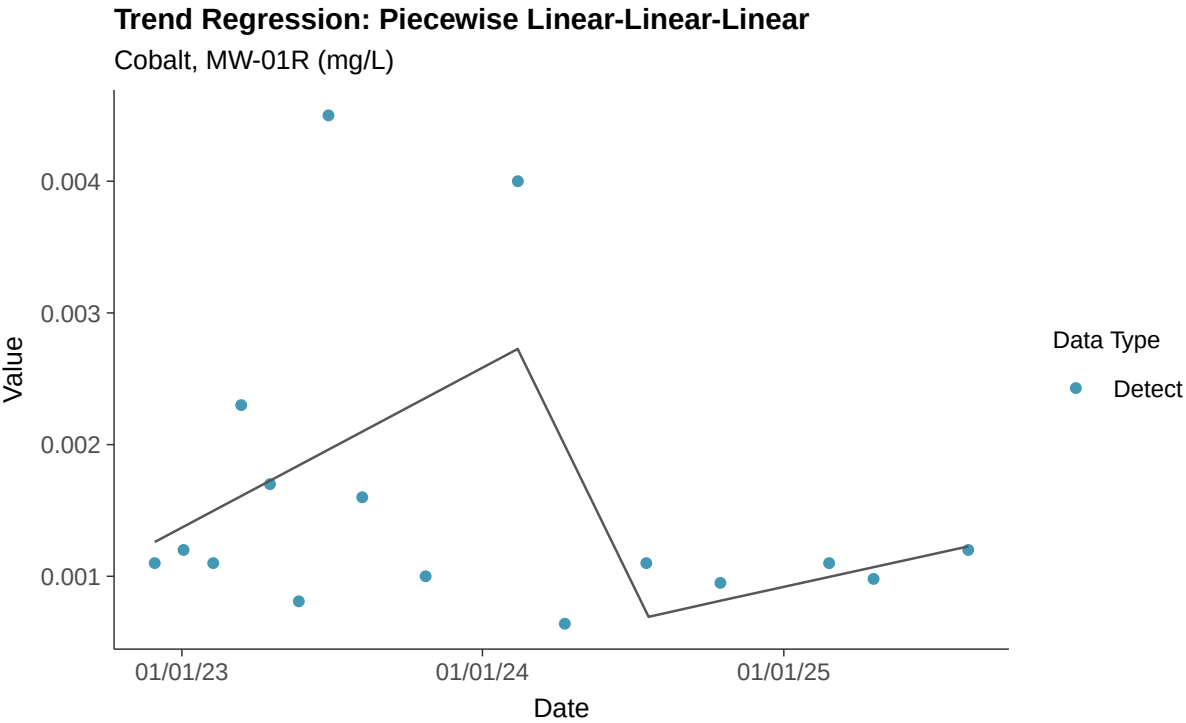
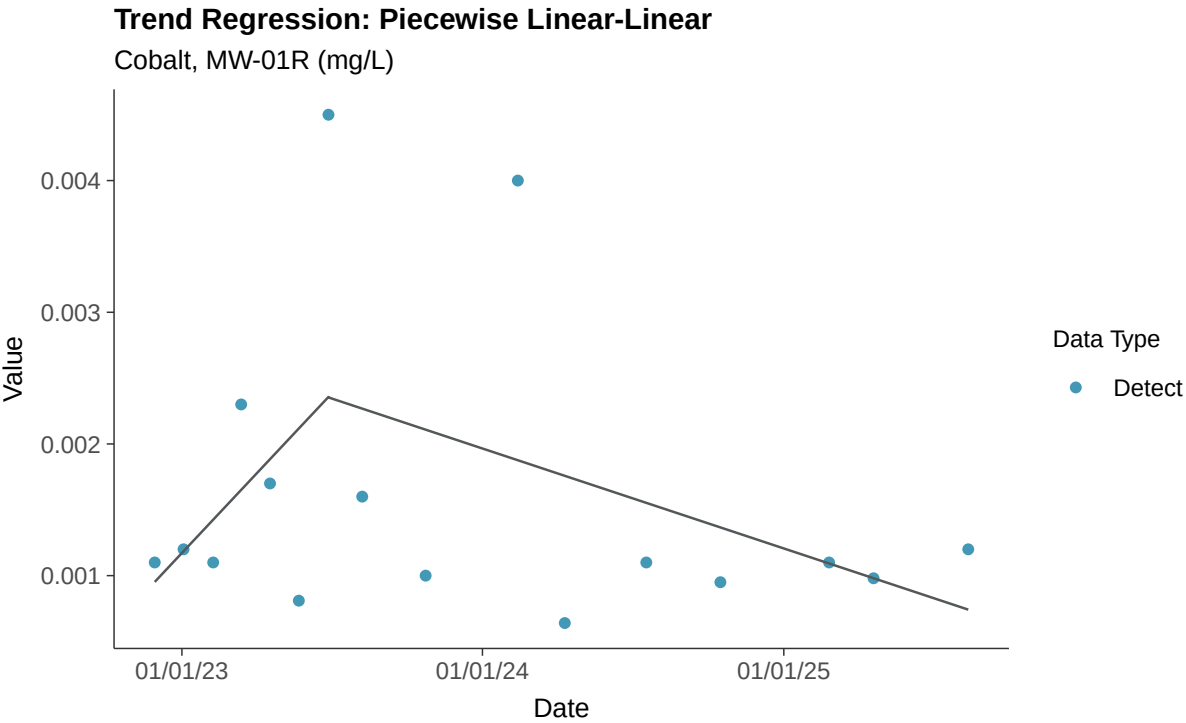
Cobalt, MW-01R (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-01R (mg/L)

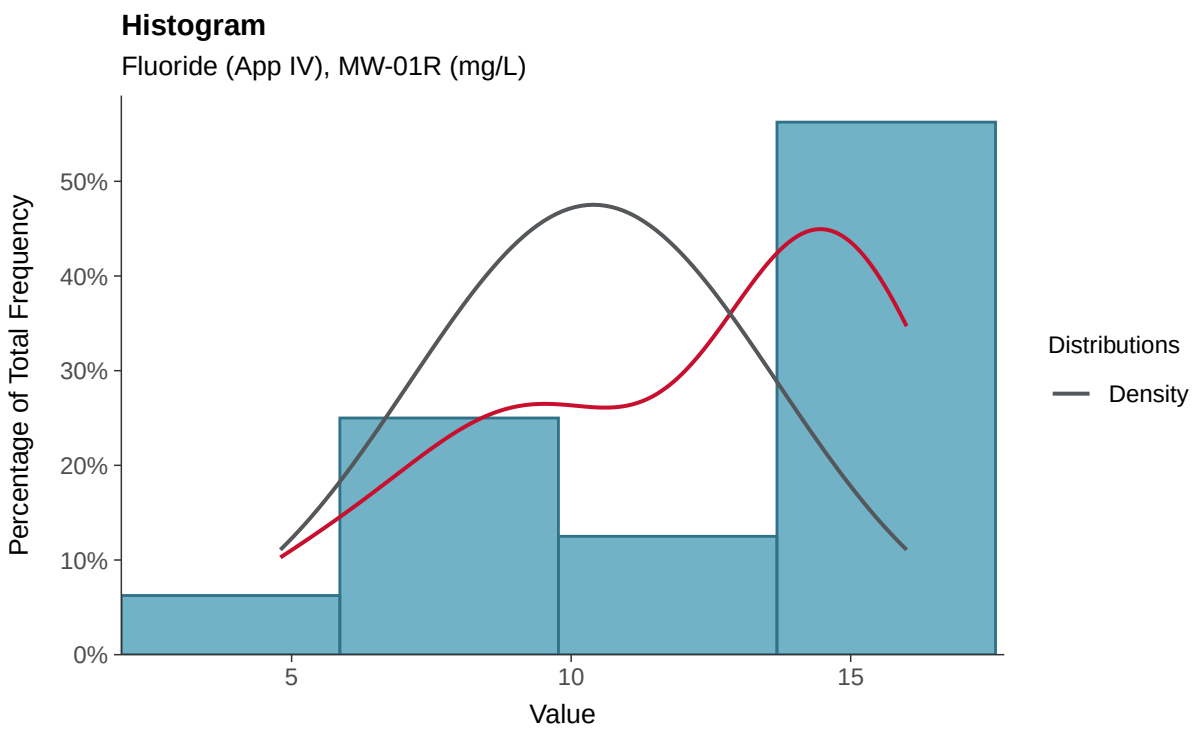
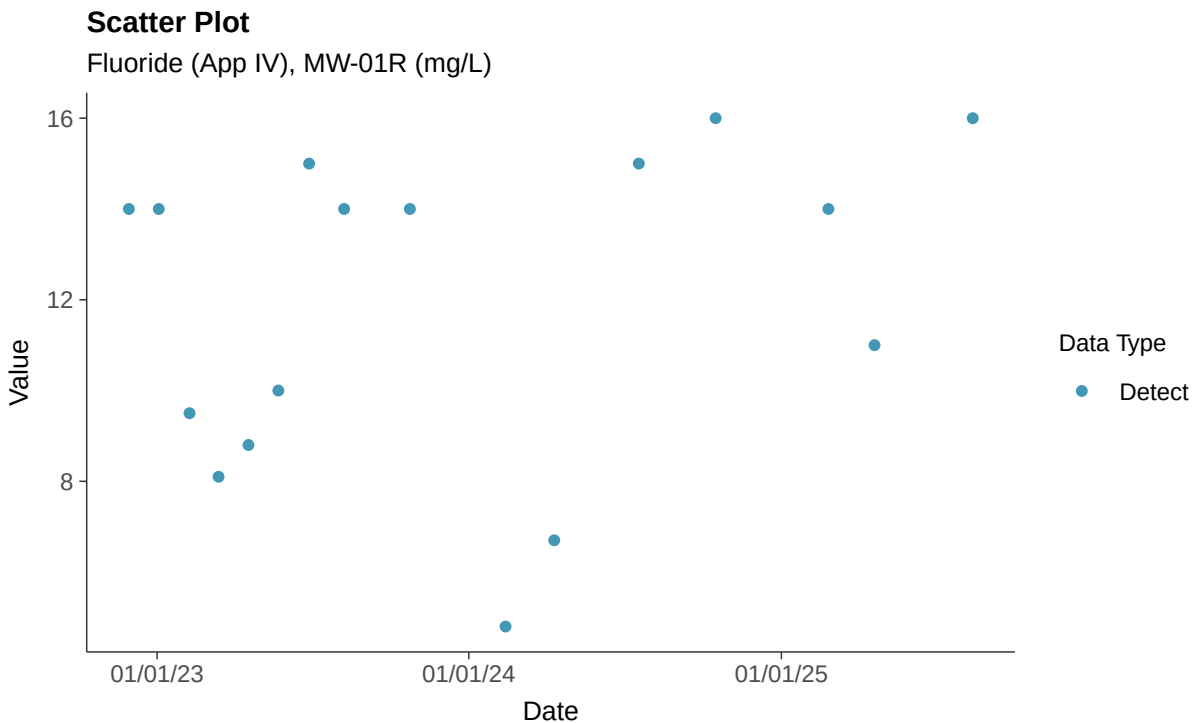






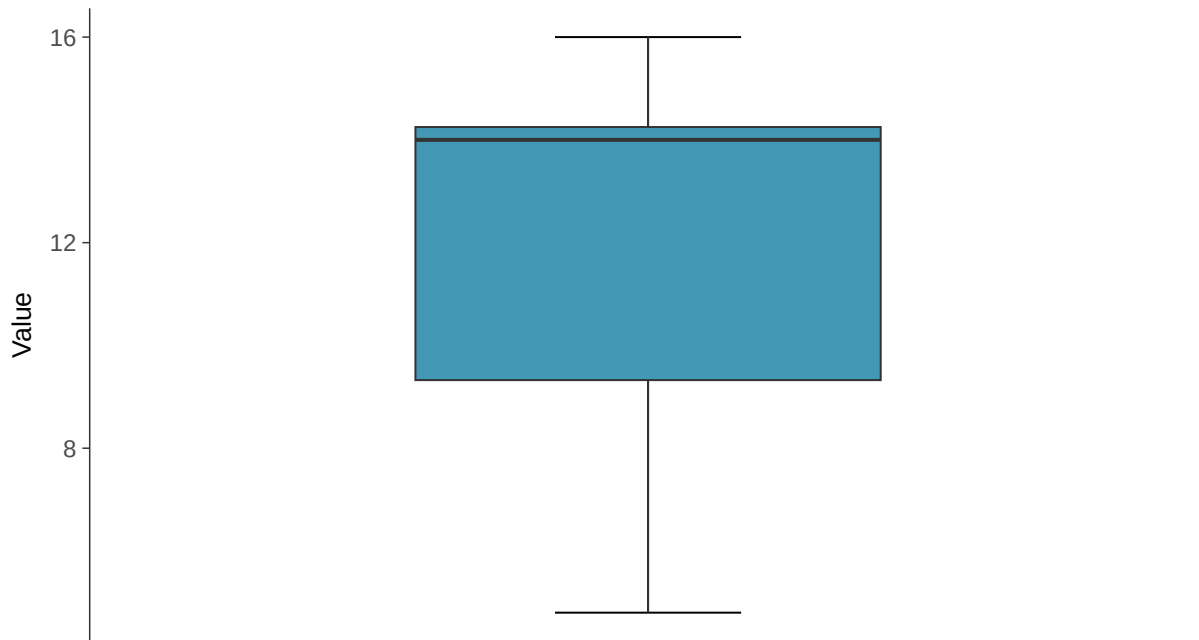
Appendix IV: Fluoride (App IV), MW-01R

ID: 11_2_4_113



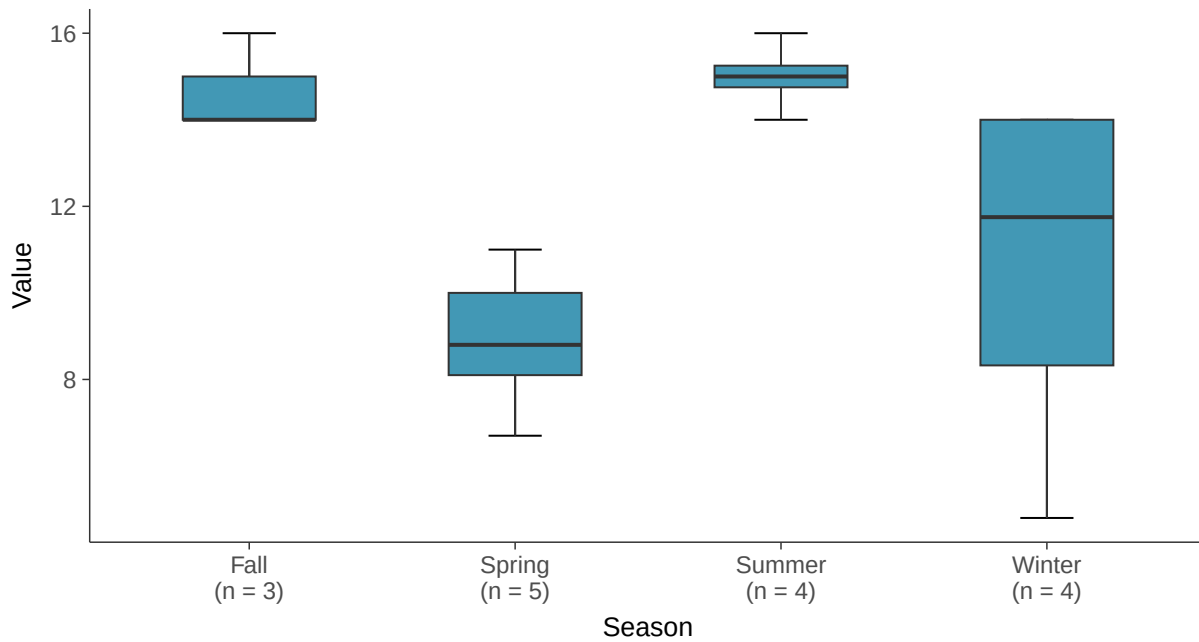
Boxplot

Fluoride (App IV), MW-01R (mg/L)



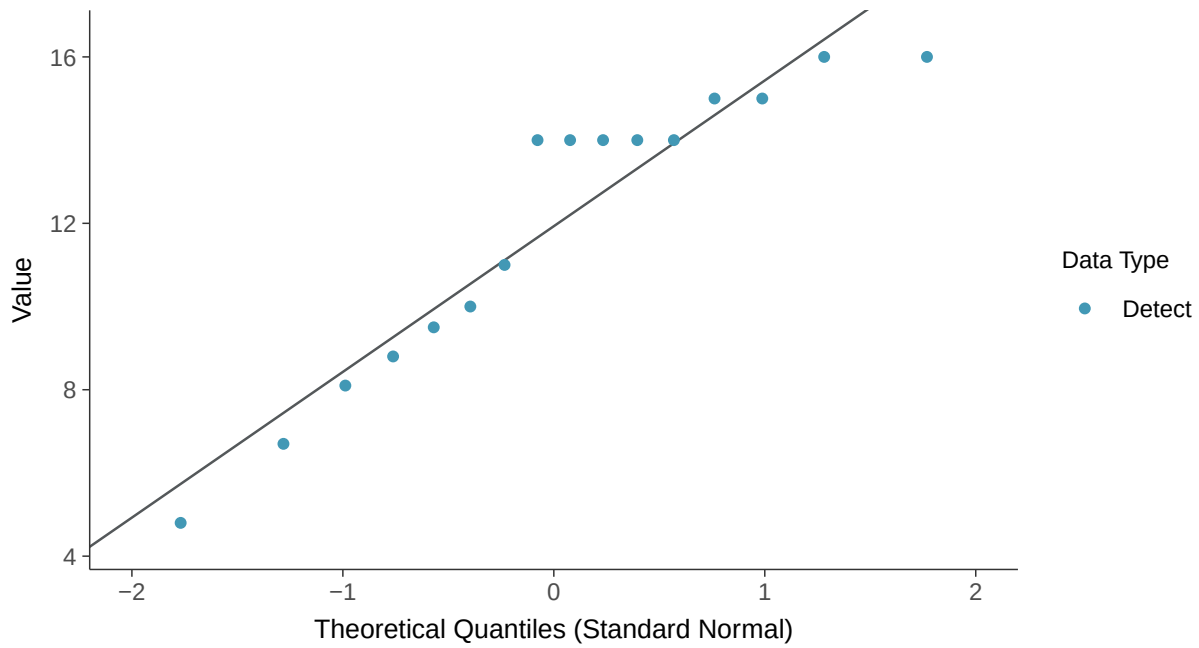
Boxplot by Season

Fluoride (App IV), MW-01R (mg/L)



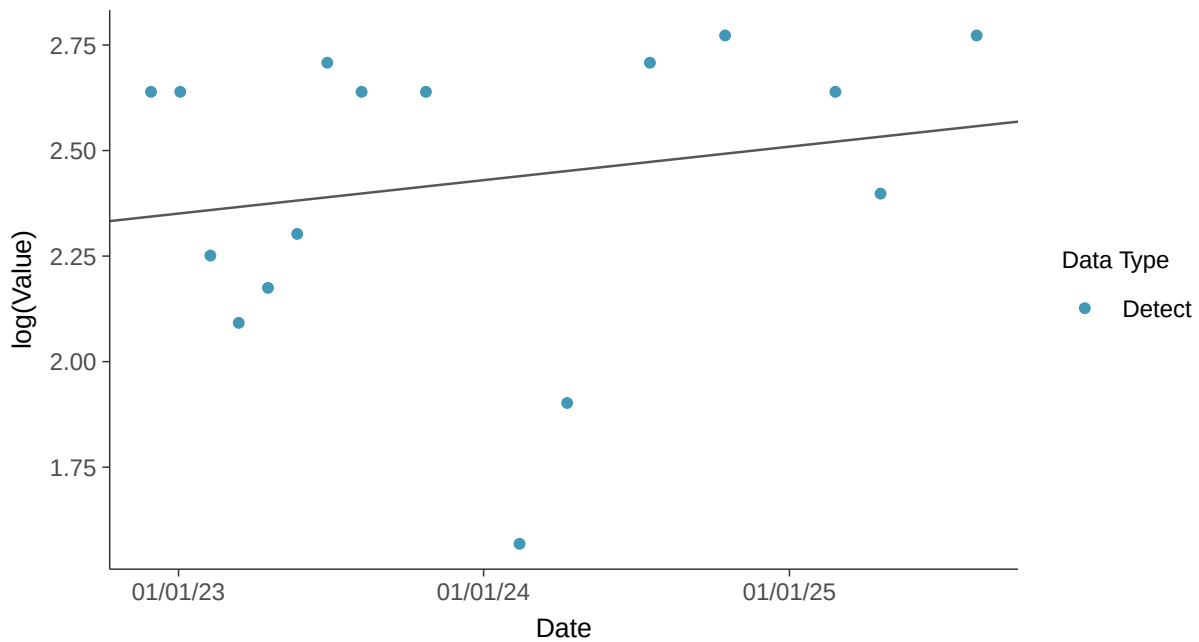
Normal Q-Q plot

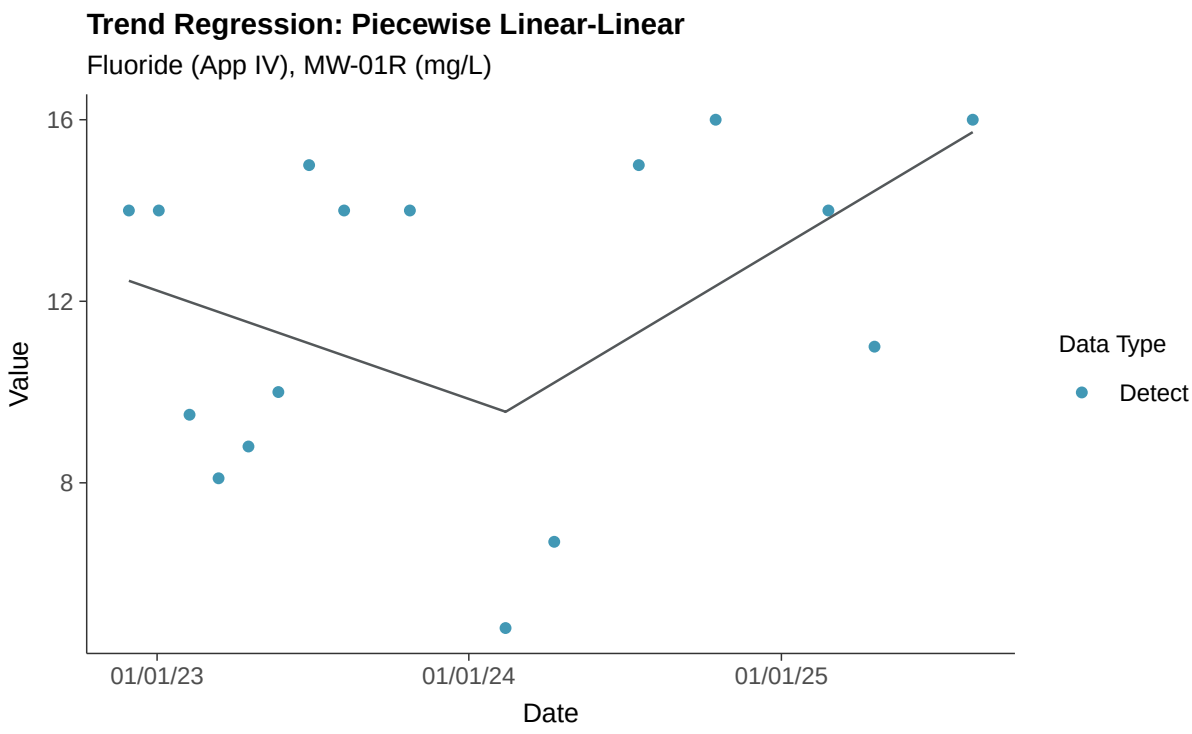
Fluoride (App IV), MW-01R (mg/L)



Trend Regression: Lognormal MLE

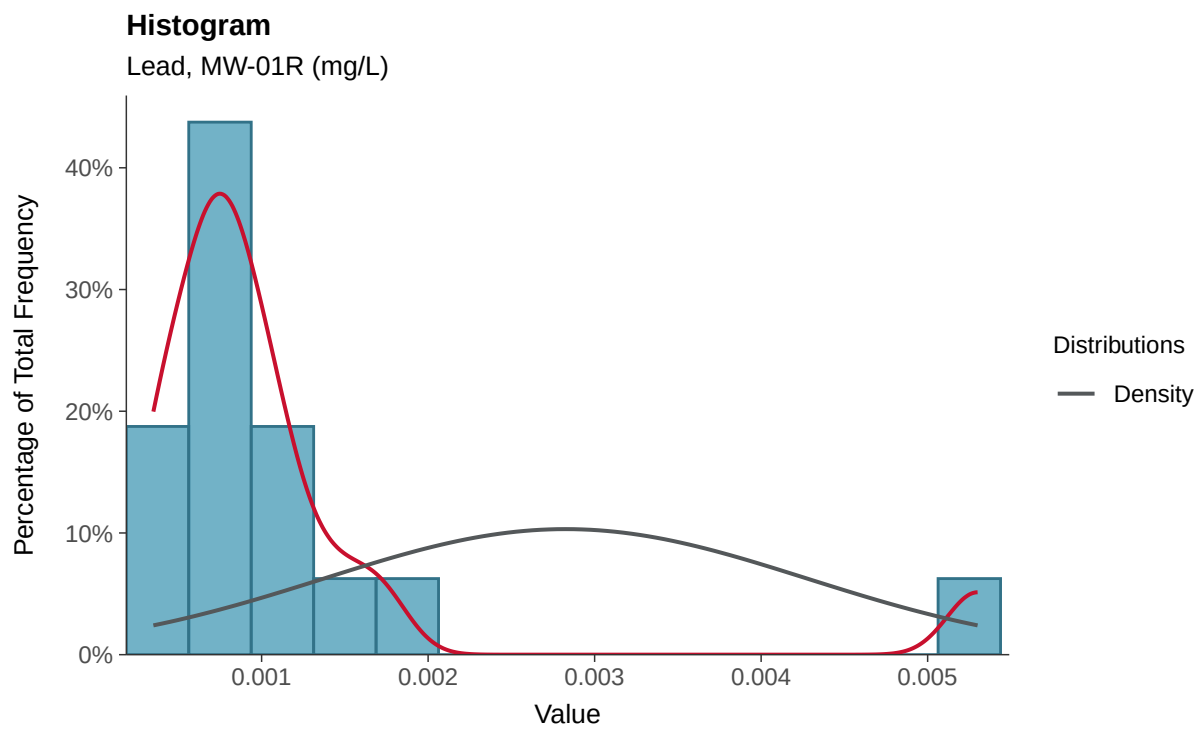
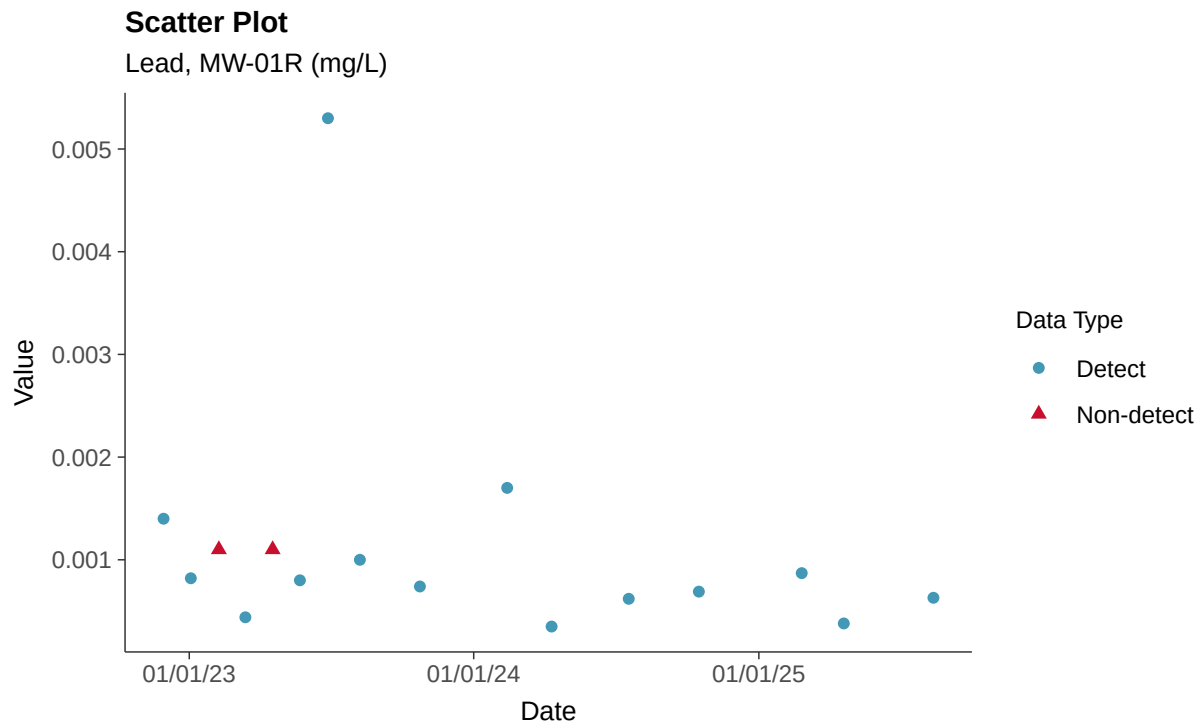
Fluoride (App IV), MW-01R (mg/L)





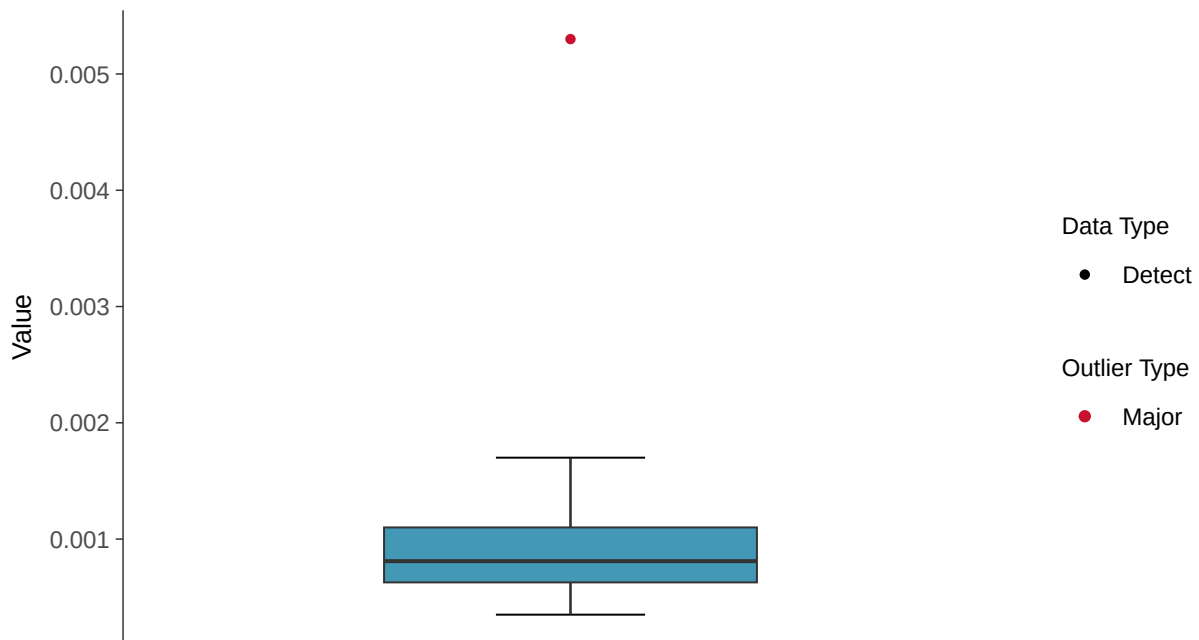
Appendix IV: Lead, MW-01R

ID: 11_2_4_115



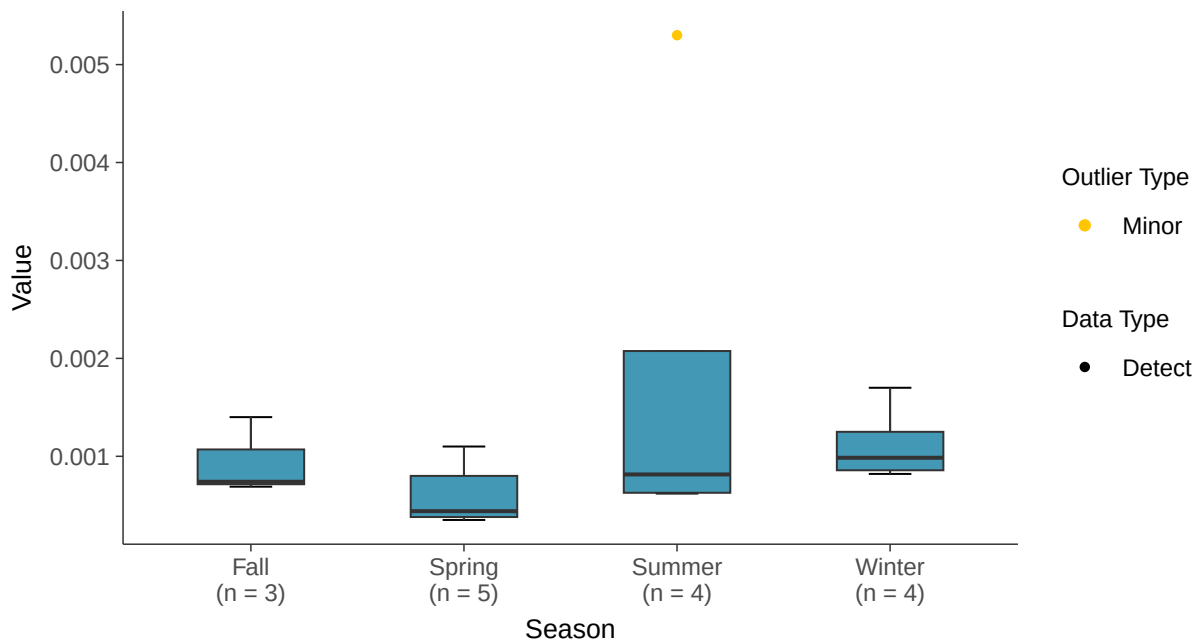
Boxplot

Lead, MW-01R (mg/L)



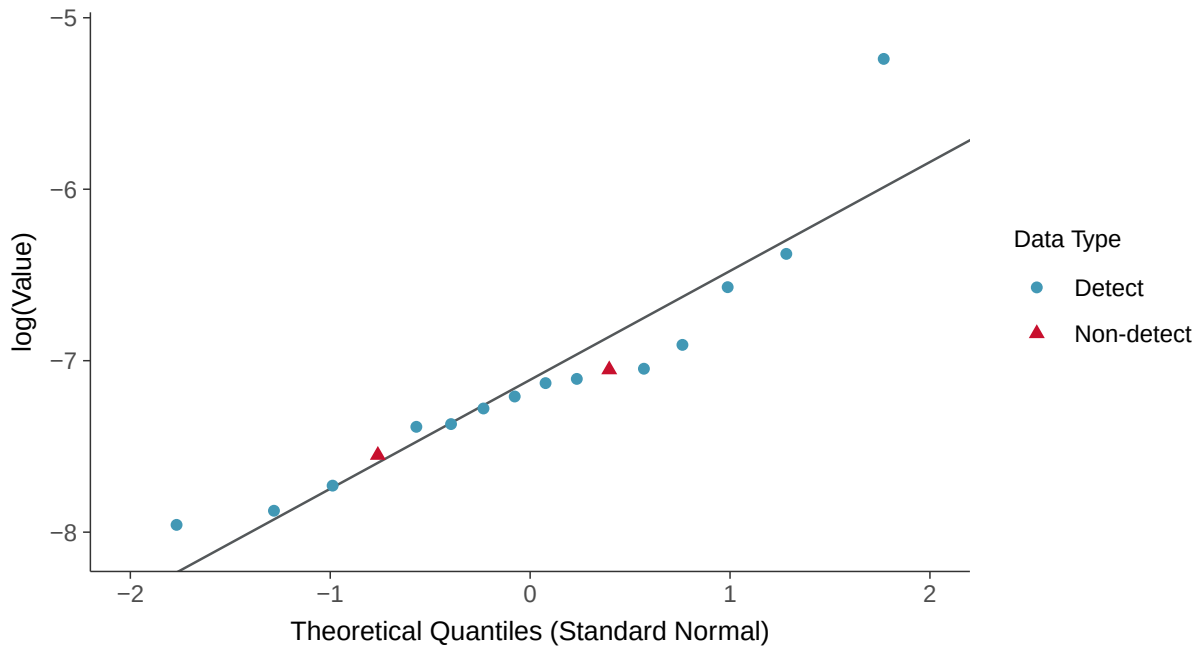
Boxplot by Season

Lead, MW-01R (mg/L)



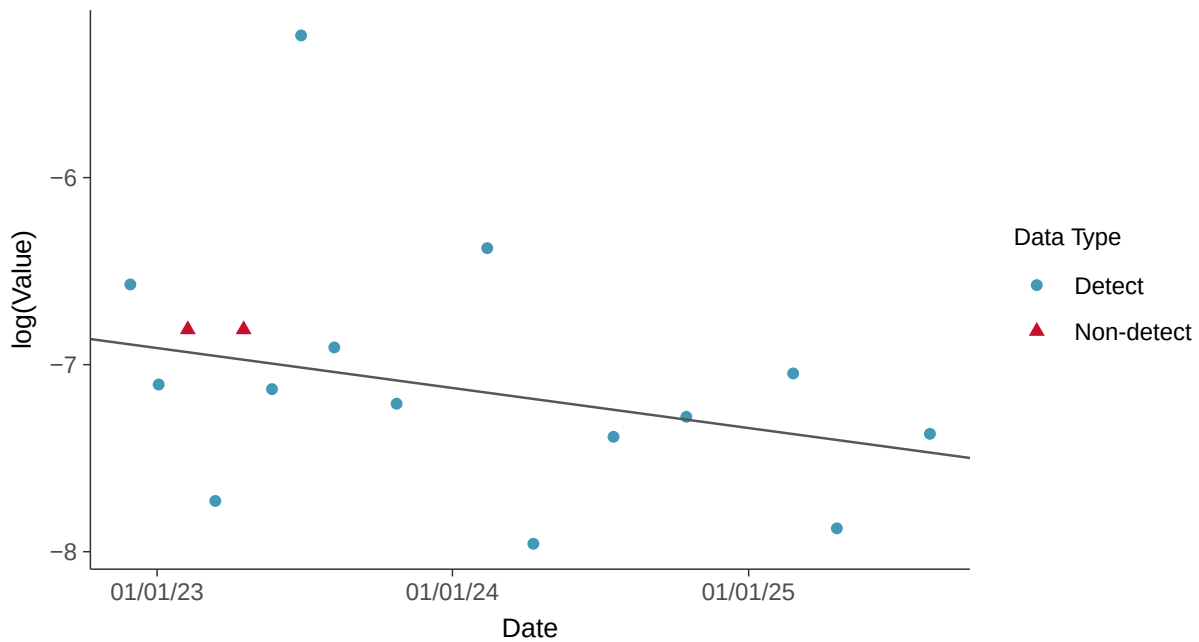
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-01R (mg/L)



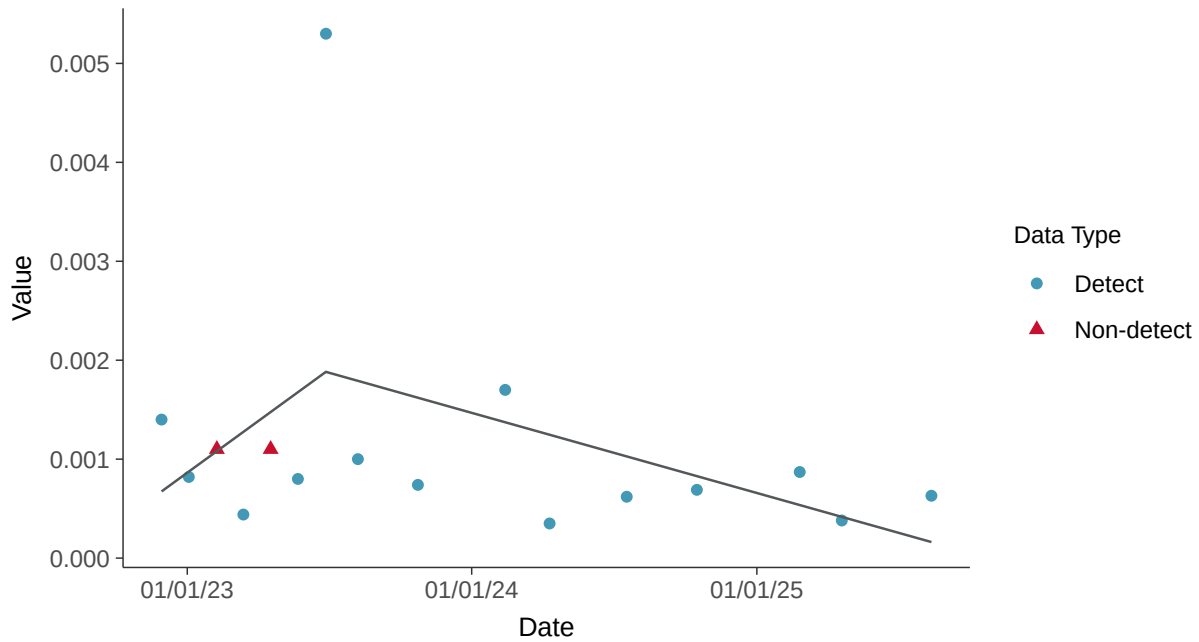
Trend Regression: Lognormal MLE

Lead, MW-01R (mg/L)



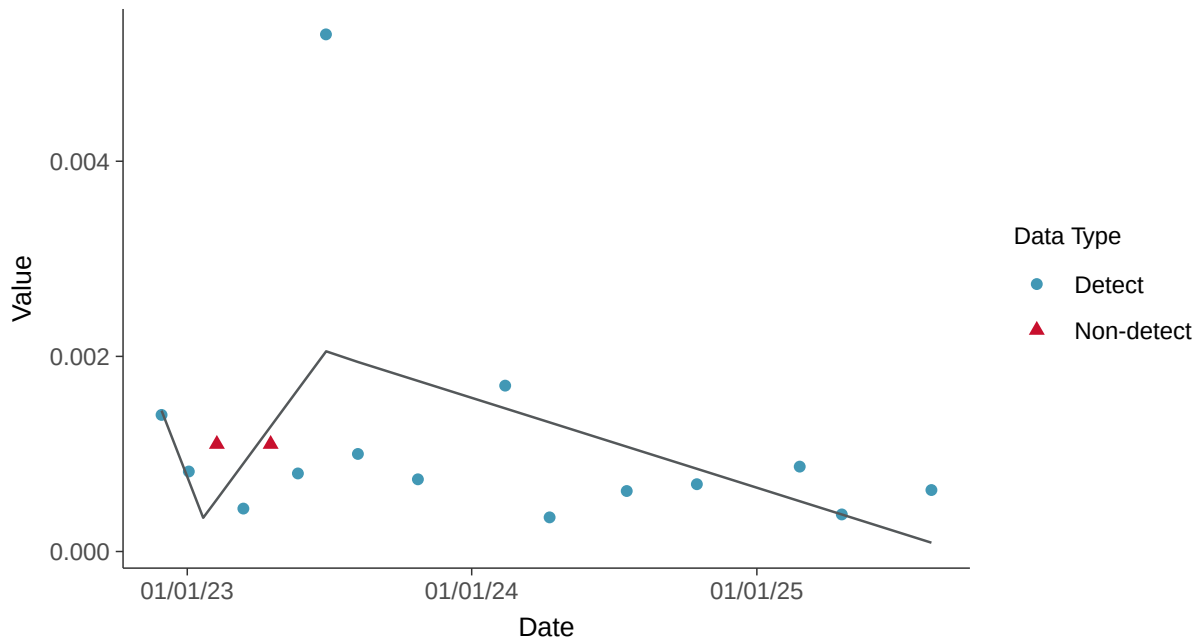
Trend Regression: Piecewise Linear-Linear

Lead, MW-01R (mg/L)



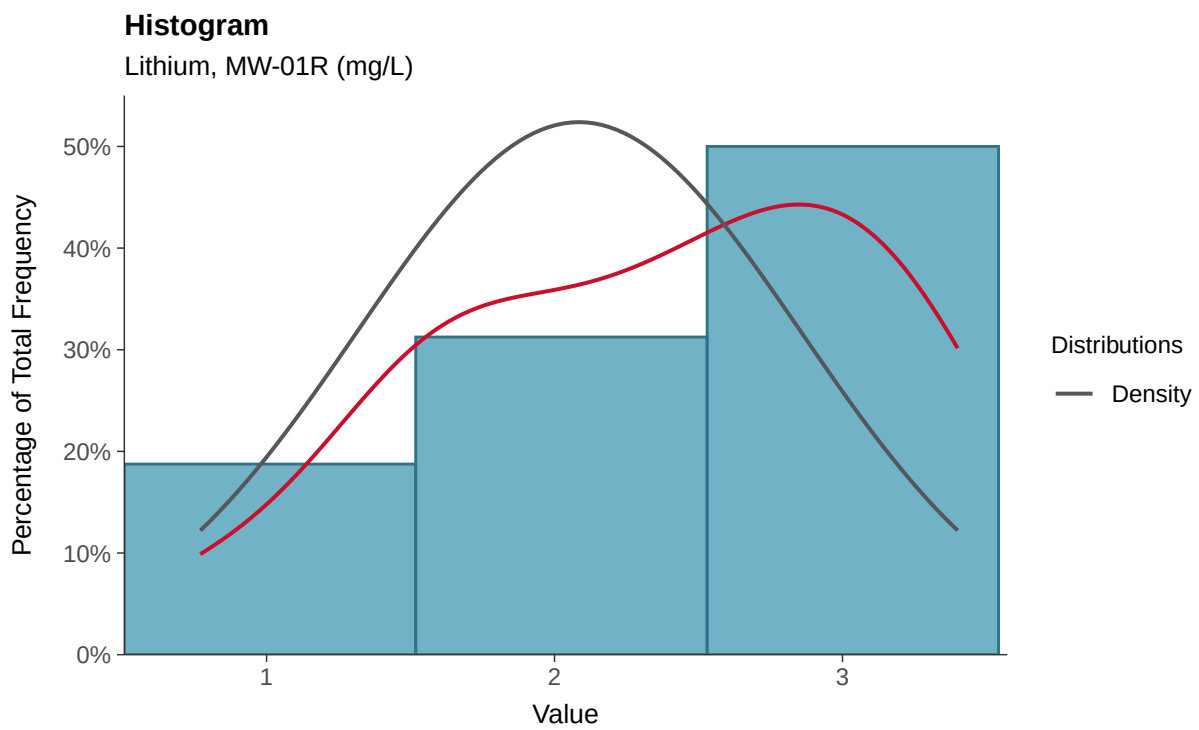
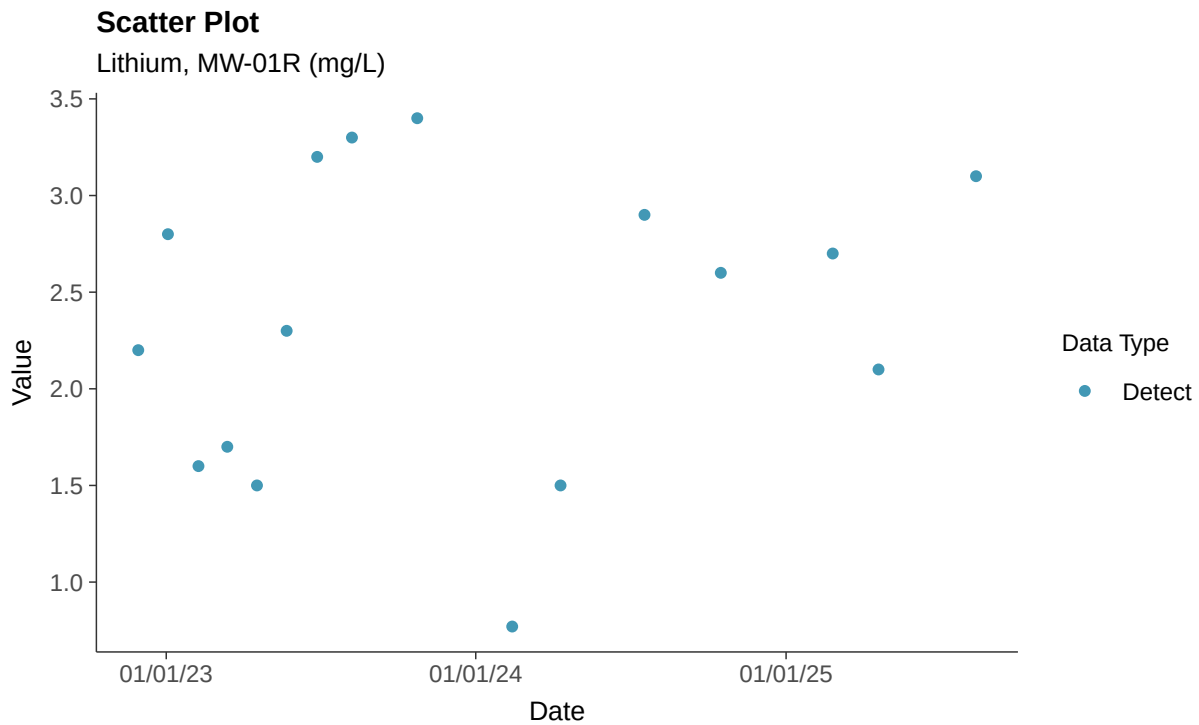
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-01R (mg/L)



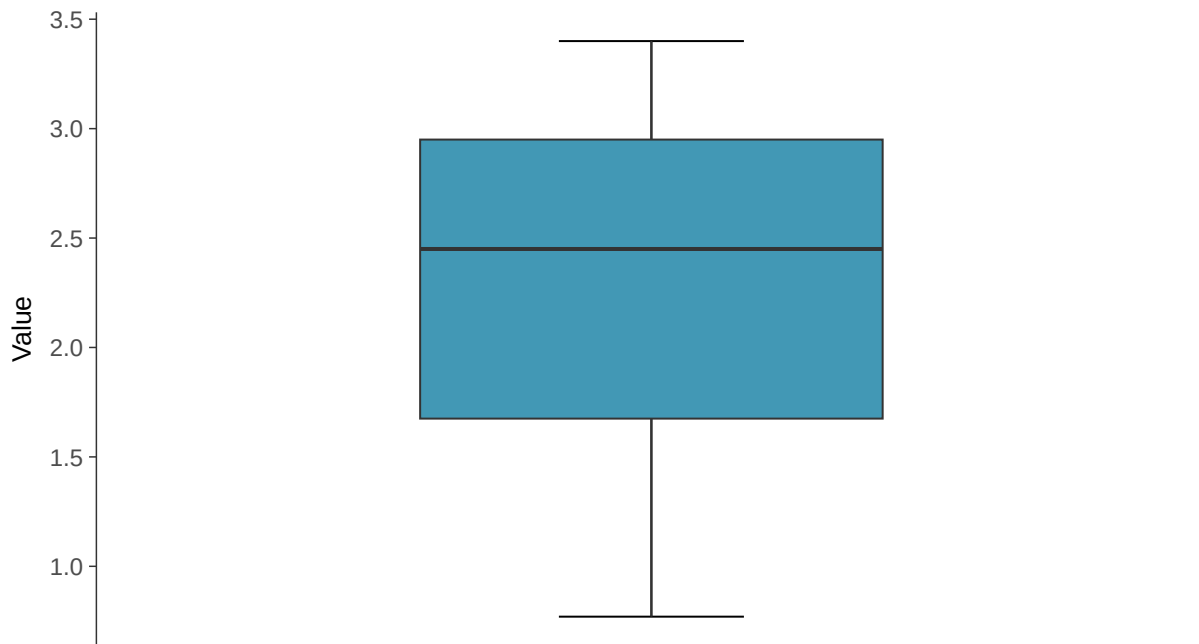
Appendix IV: Lithium, MW-01R

ID: 11_2_4_116



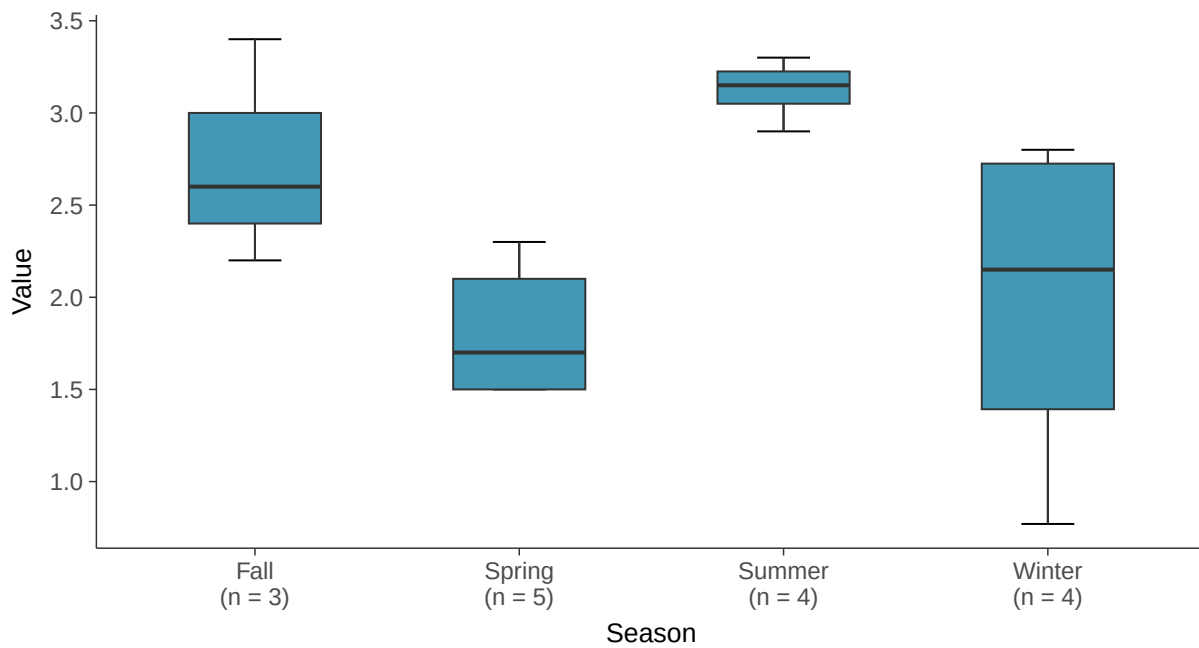
Boxplot

Lithium, MW-01R (mg/L)



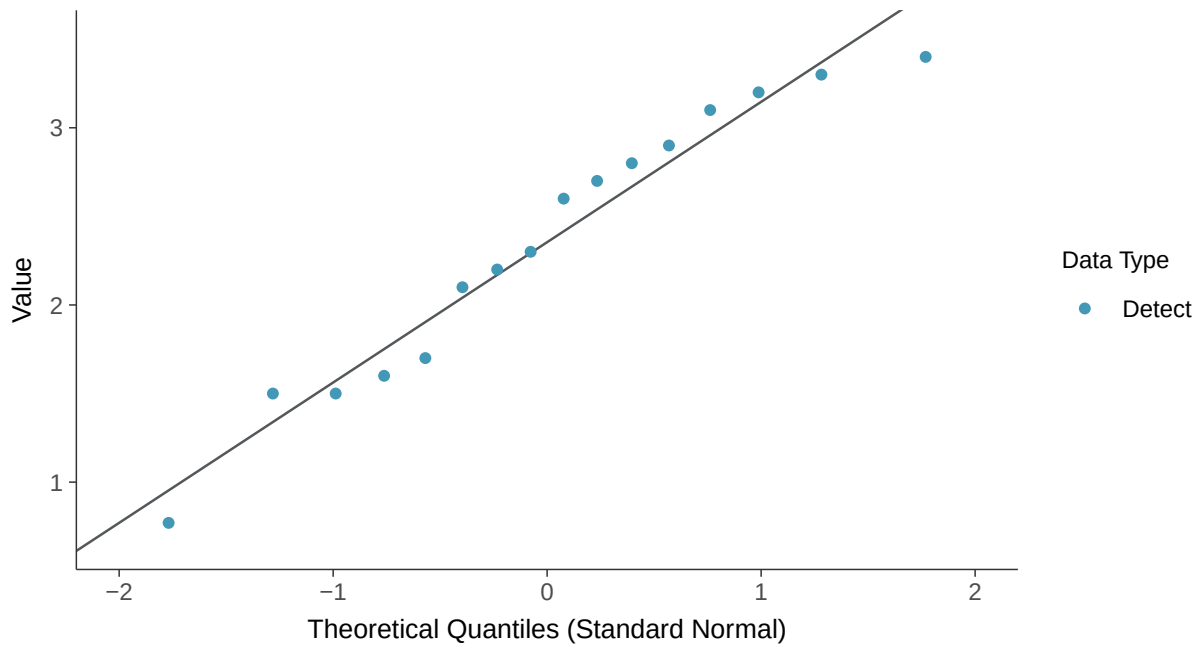
Boxplot by Season

Lithium, MW-01R (mg/L)



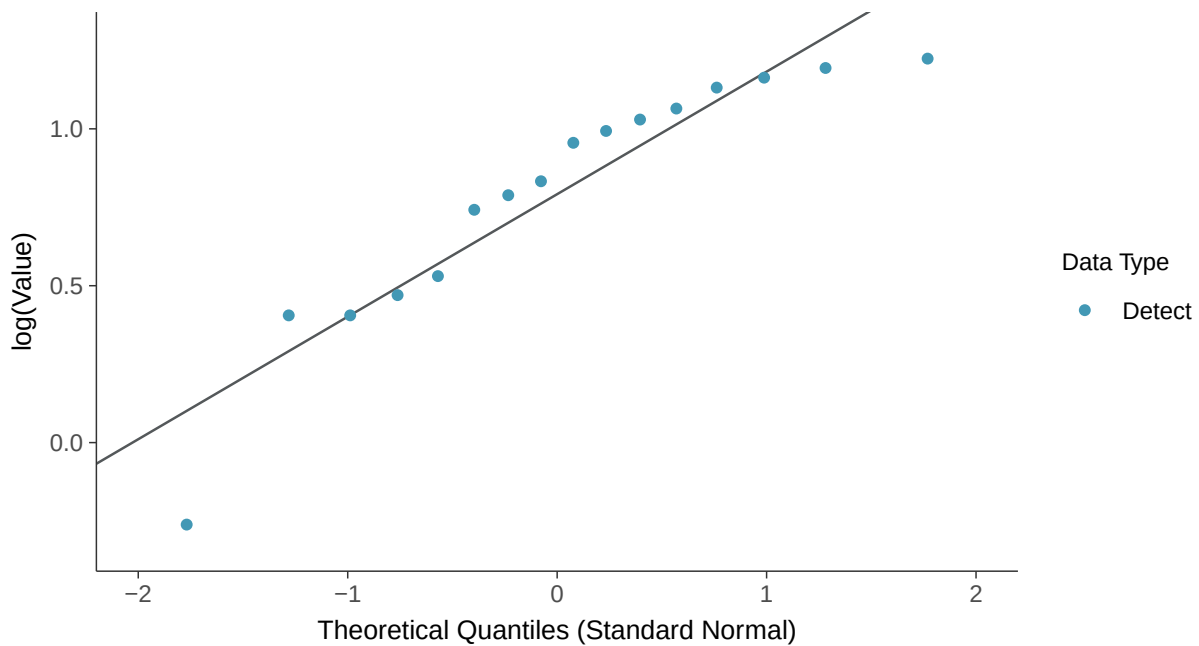
Normal Q-Q plot

Lithium, MW-01R (mg/L)



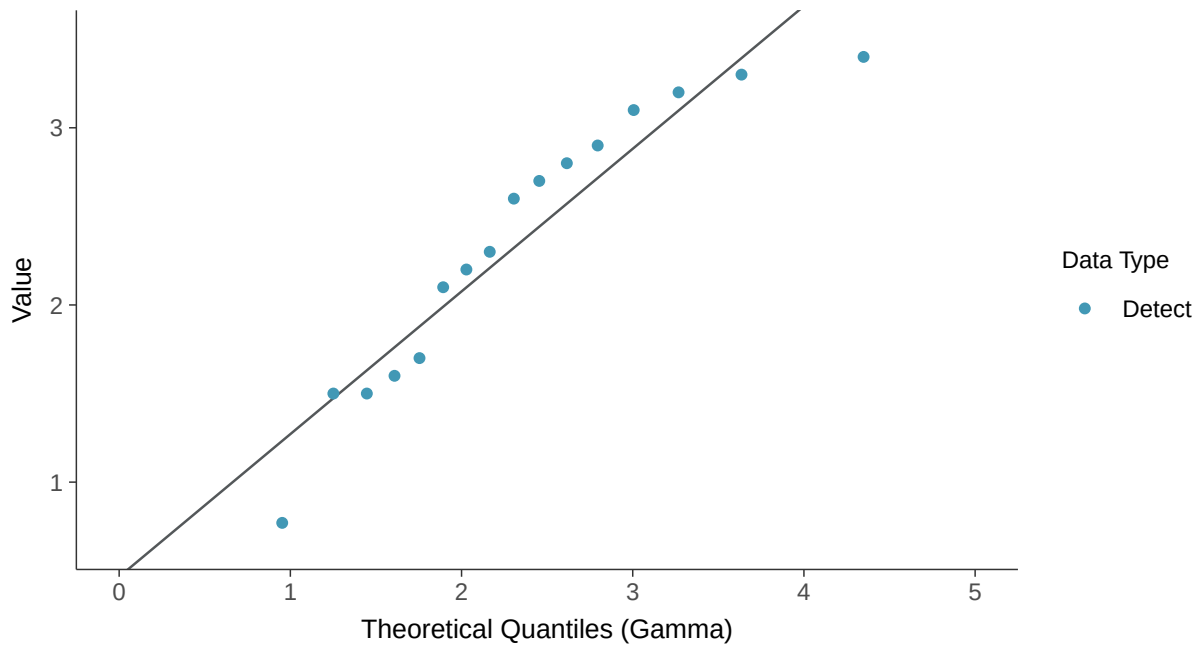
Lognormal Q-Q plot

Lithium, MW-01R (mg/L)



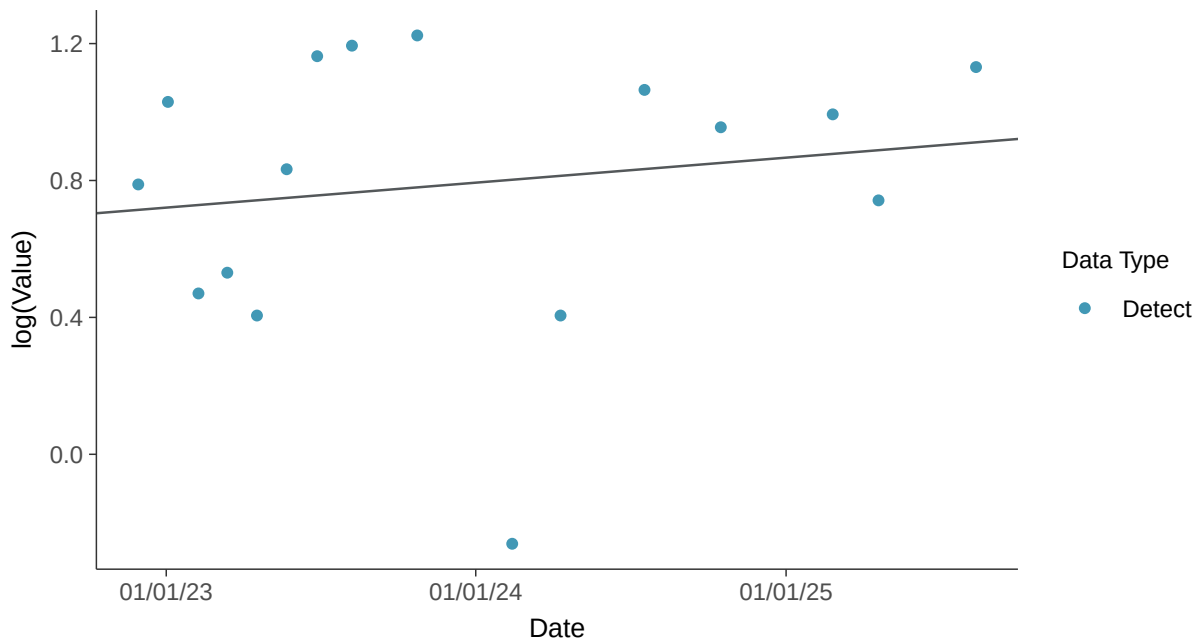
Gamma Q-Q plot

Lithium, MW-01R (mg/L)



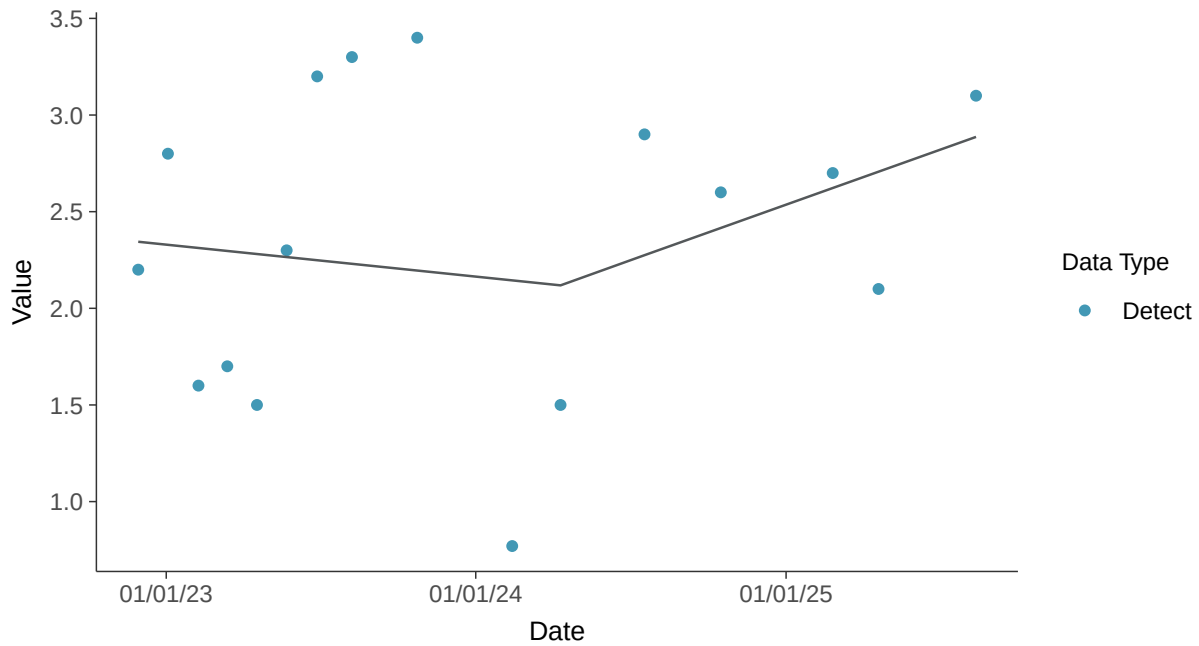
Trend Regression: Lognormal MLE

Lithium, MW-01R (mg/L)



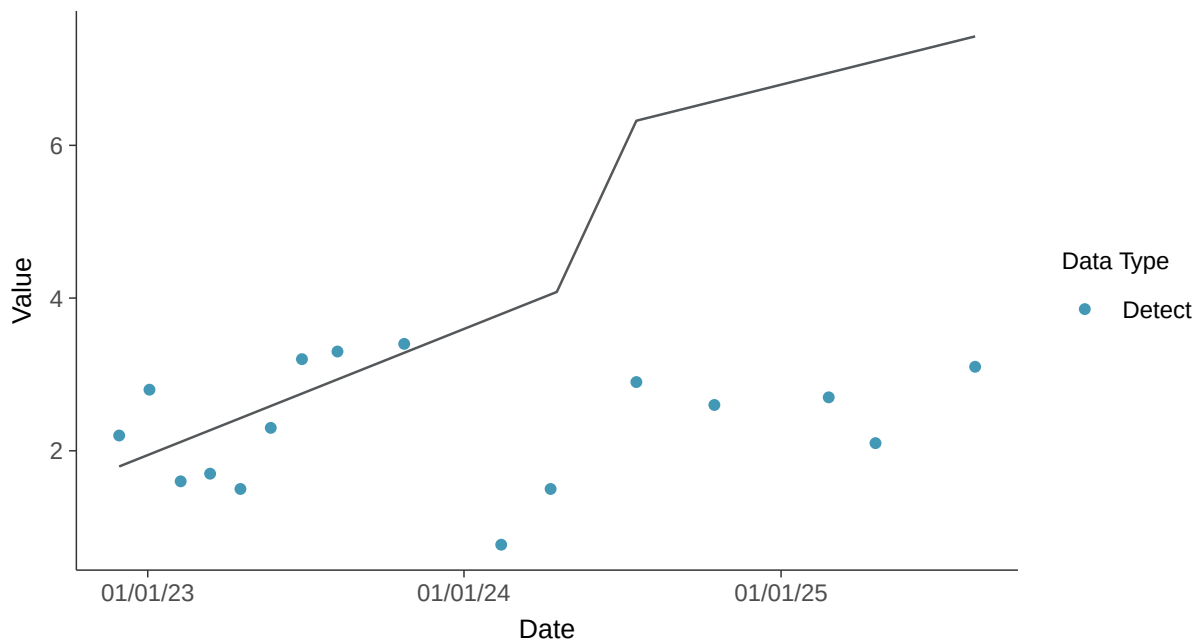
Trend Regression: Piecewise Linear-Linear

Lithium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

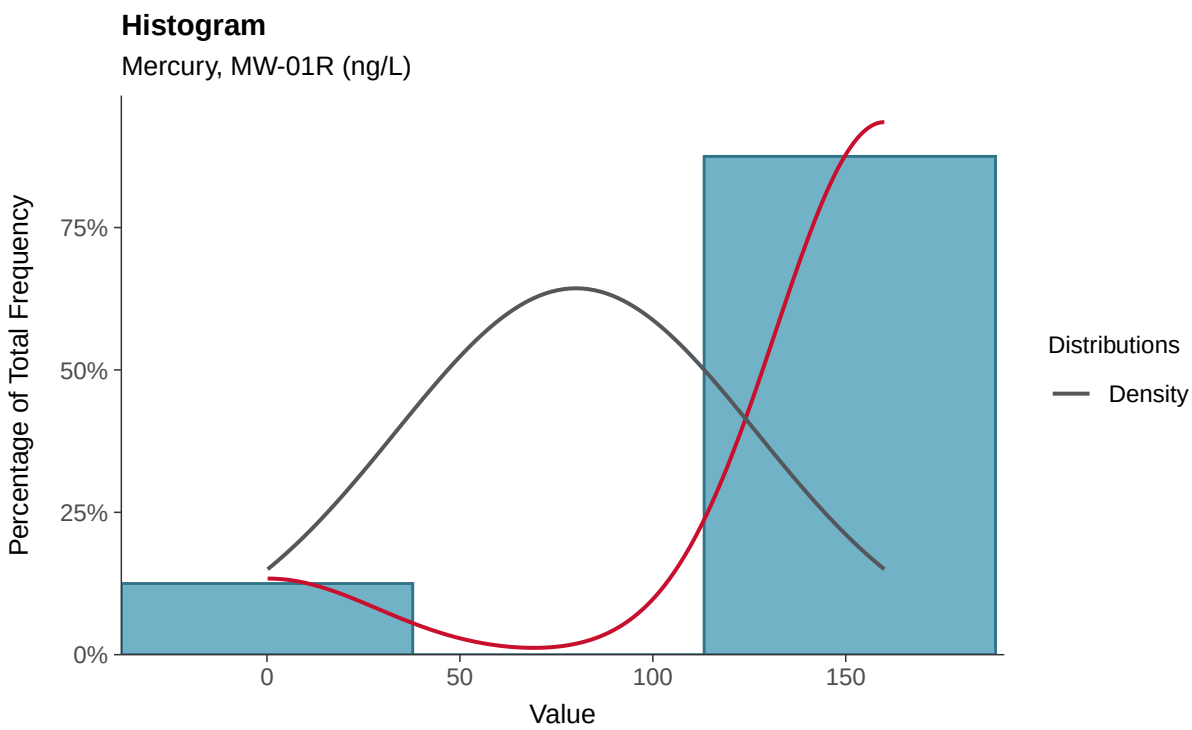
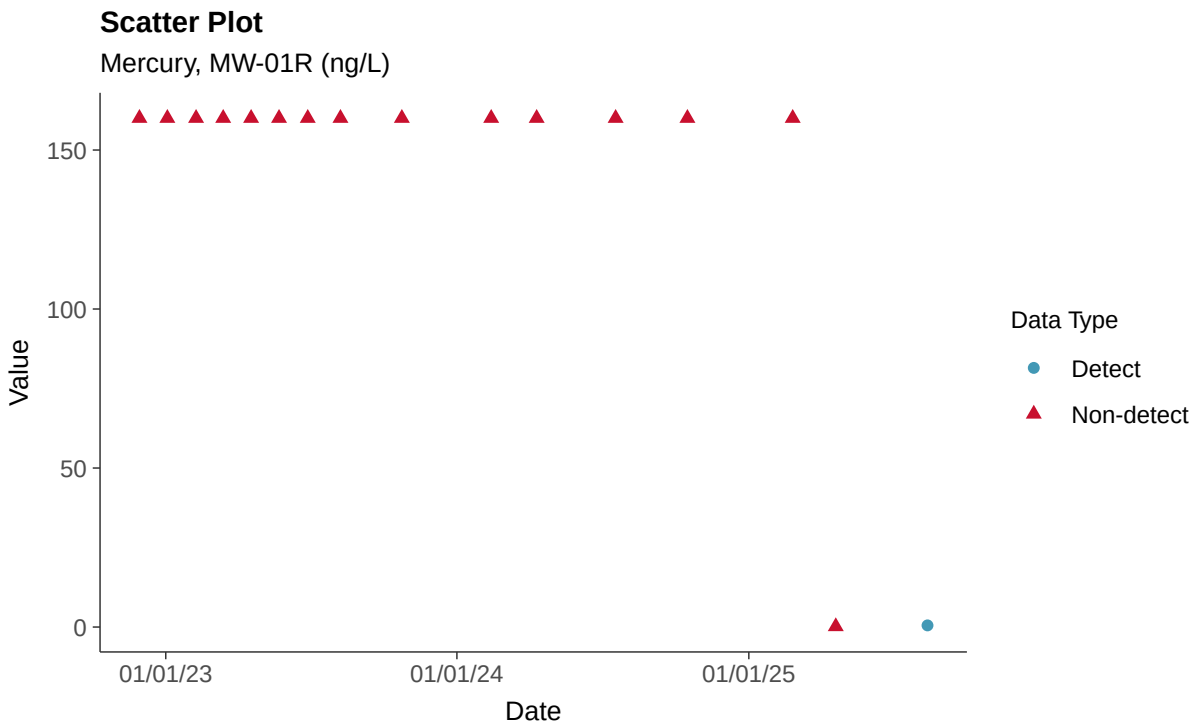
Lithium, MW-01R (mg/L)





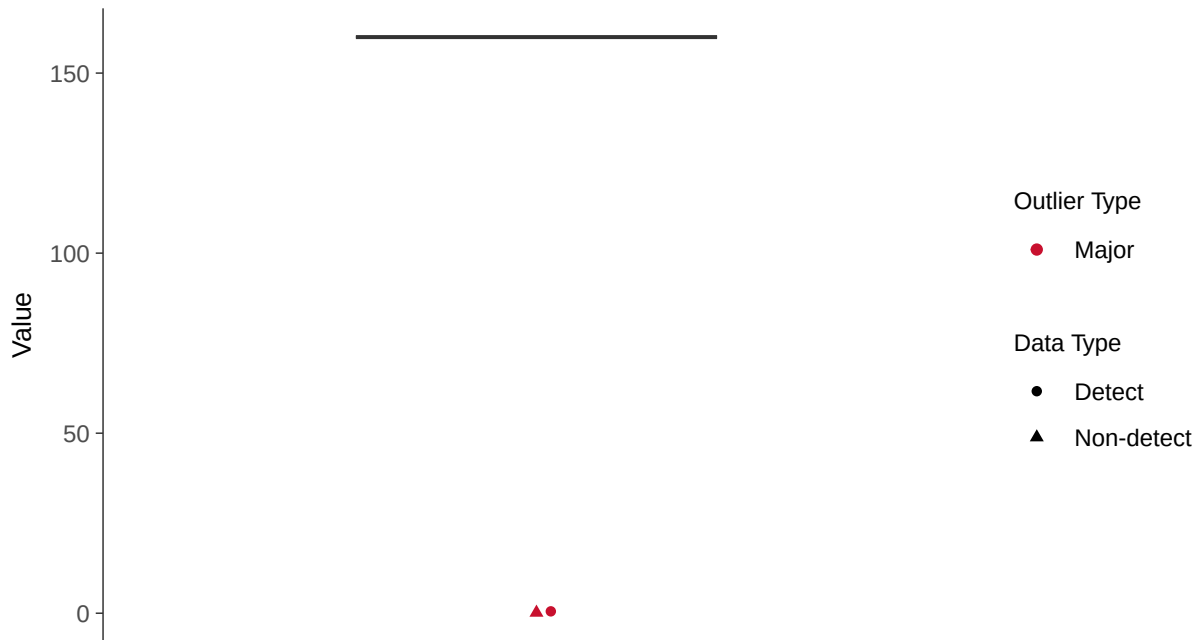
Appendix IV: Mercury, MW-01R

ID: 11_2_4_117



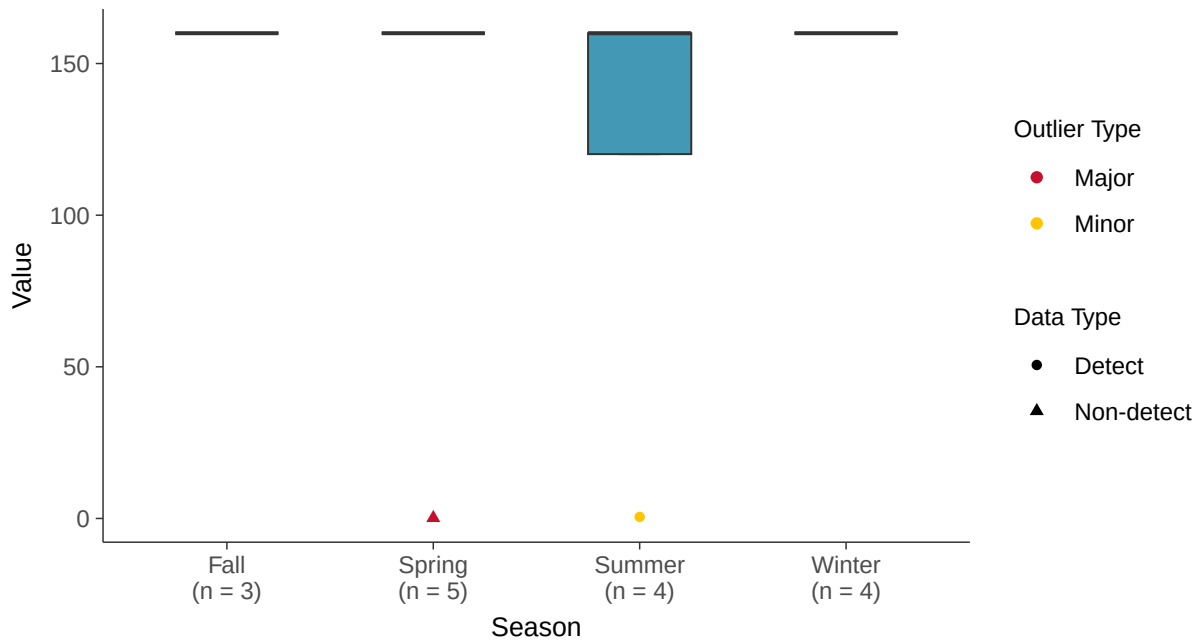
Boxplot

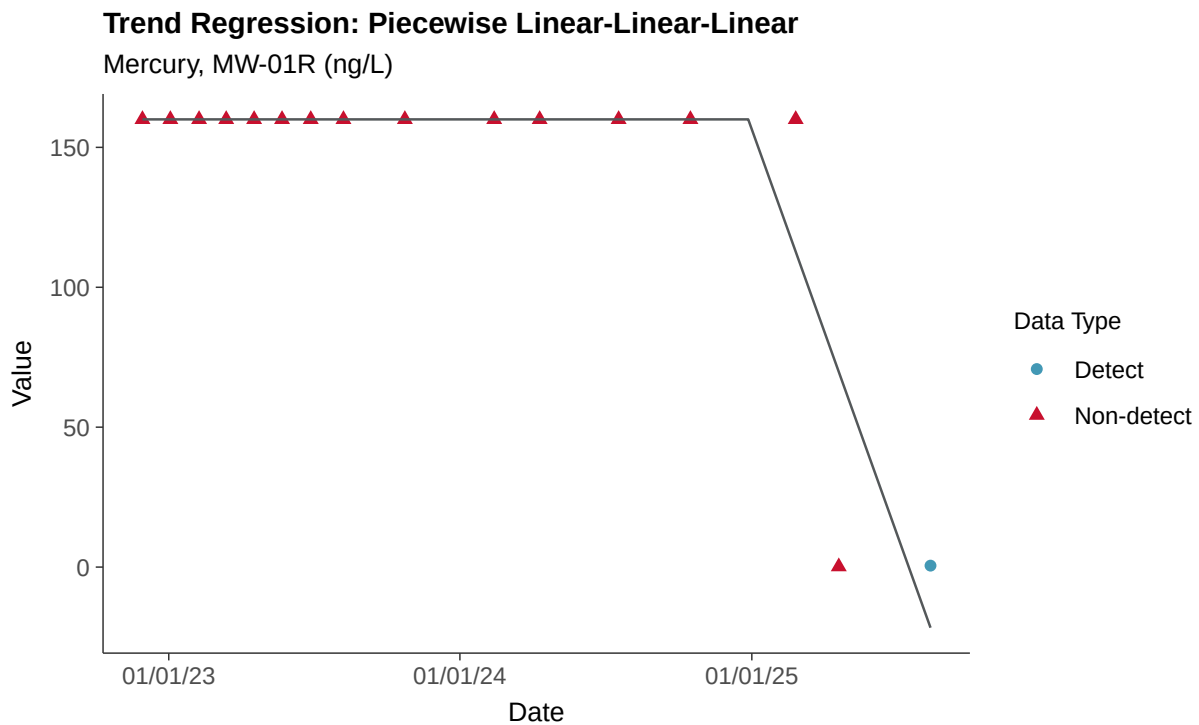
Mercury, MW-01R (ng/L)



Boxplot by Season

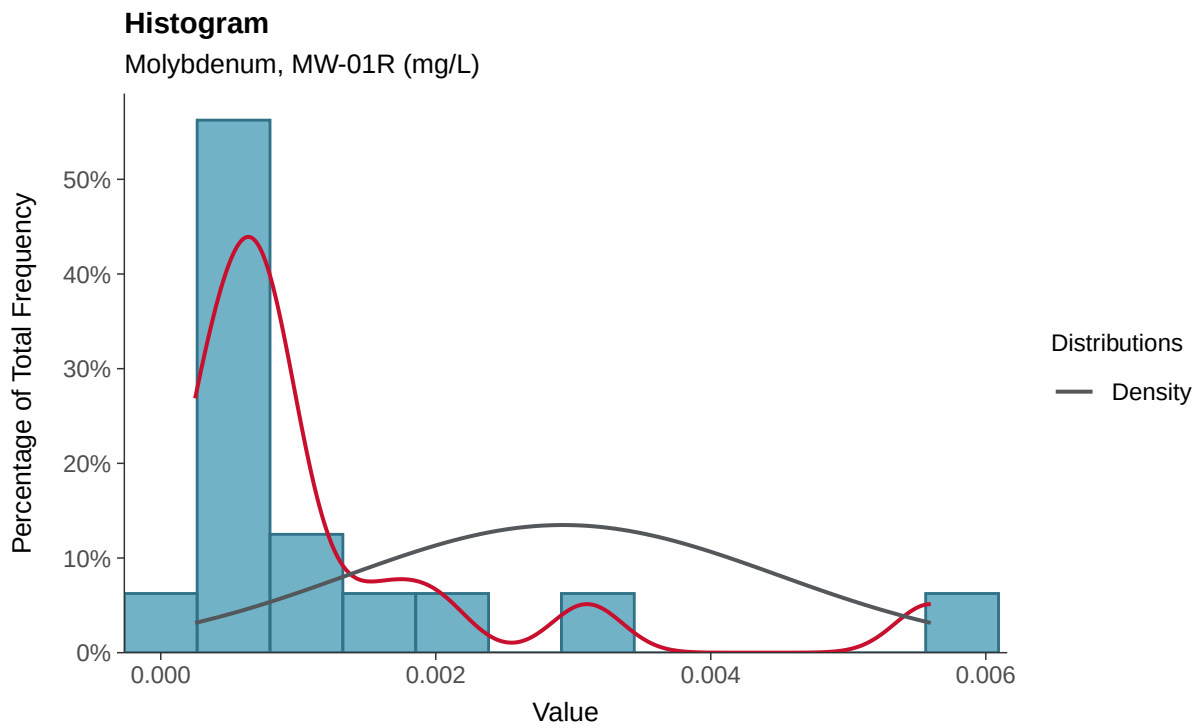
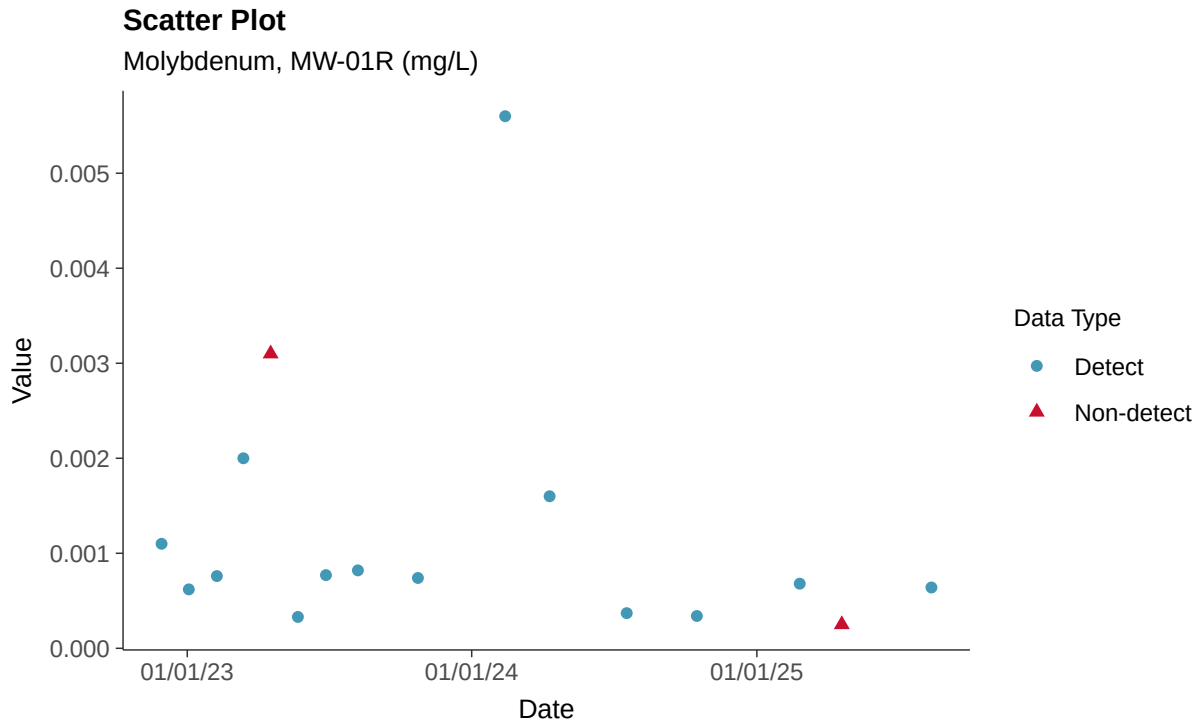
Mercury, MW-01R (ng/L)





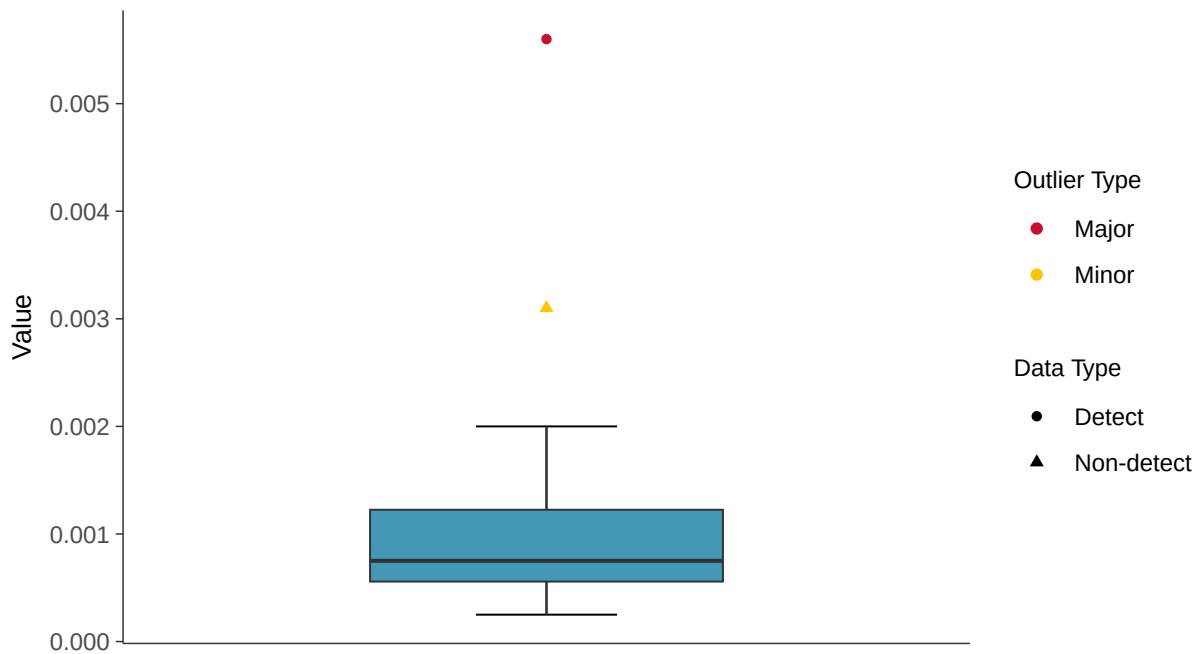
Appendix IV: Molybdenum, MW-01R

ID: 11_2_4_118



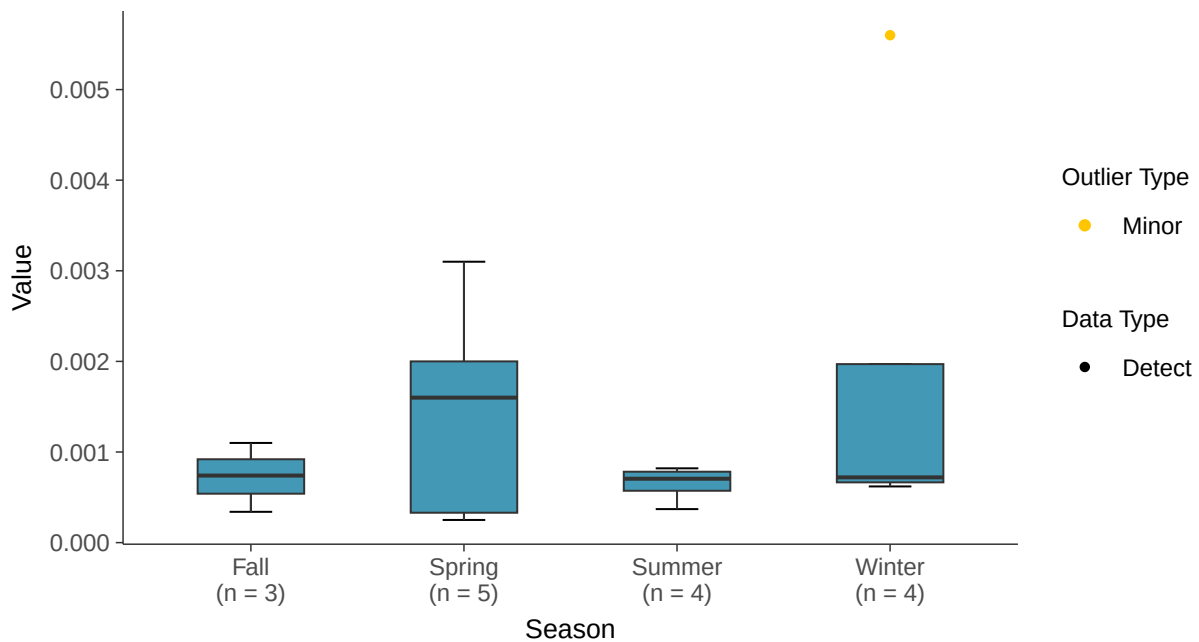
Boxplot

Molybdenum, MW-01R (mg/L)



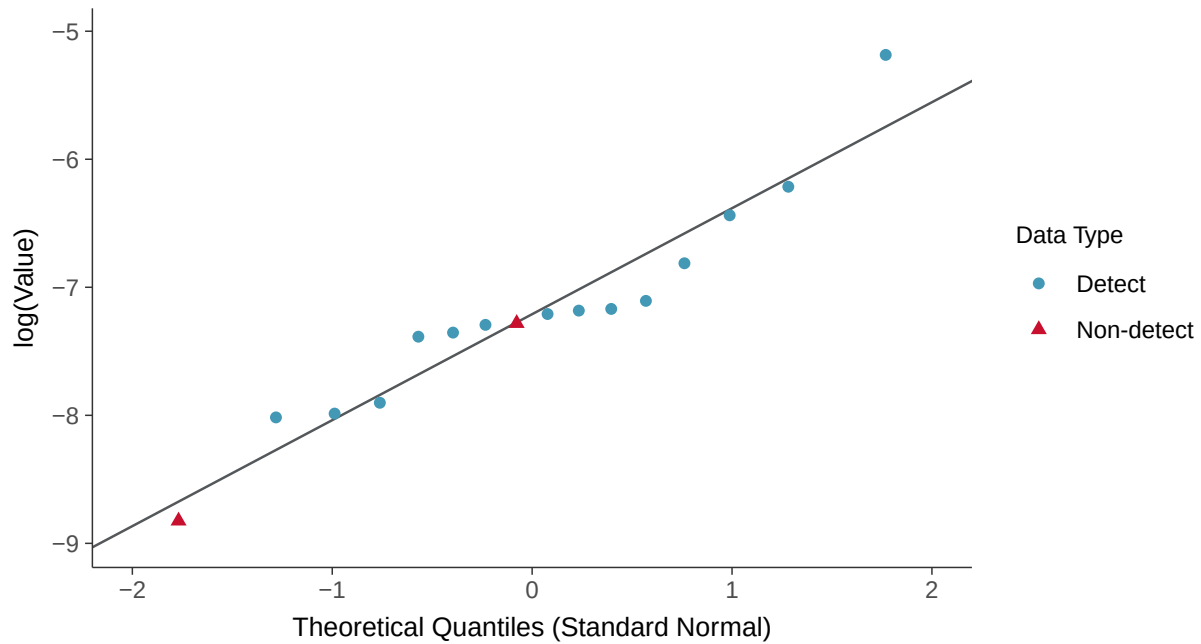
Boxplot by Season

Molybdenum, MW-01R (mg/L)



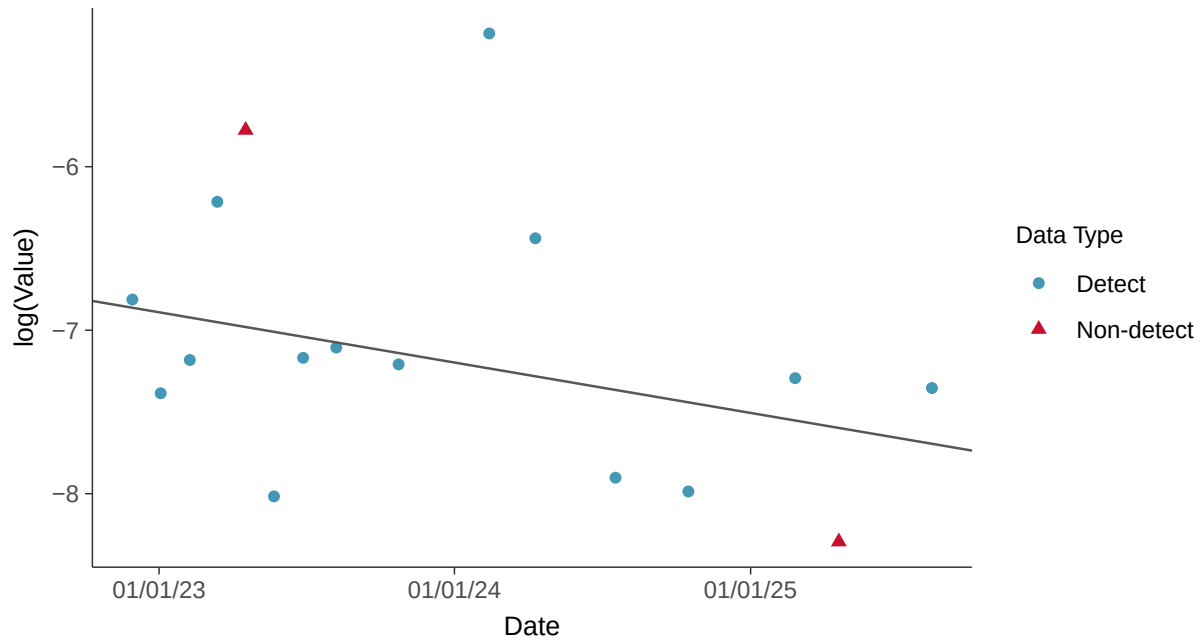
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-01R (mg/L)



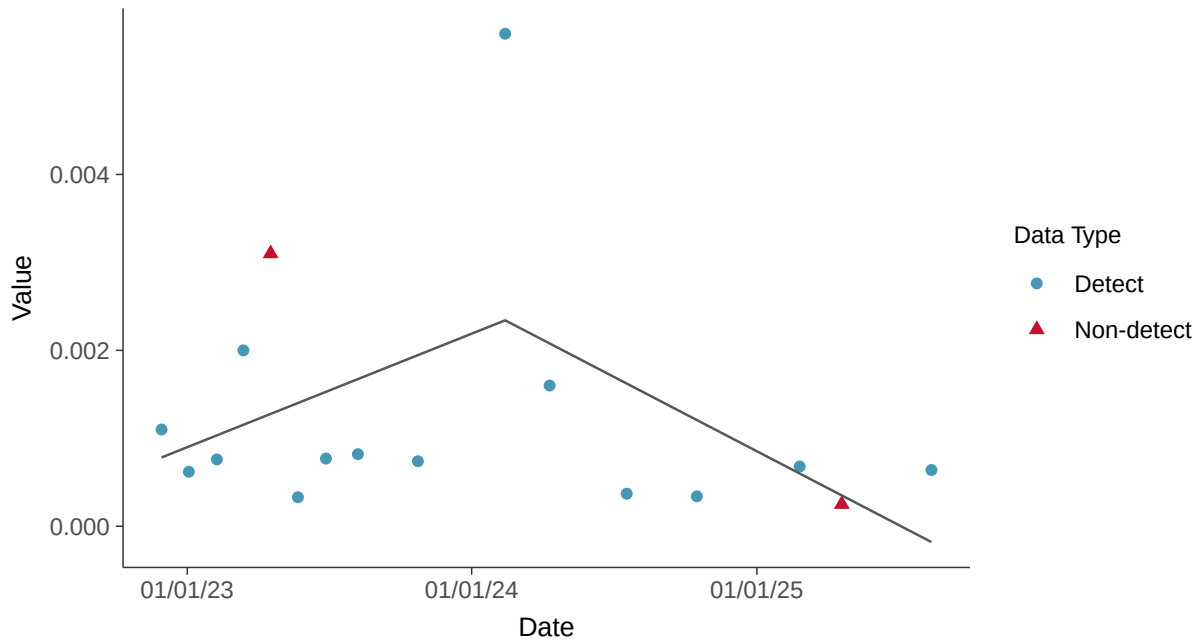
Trend Regression: Lognormal MLE

Molybdenum, MW-01R (mg/L)



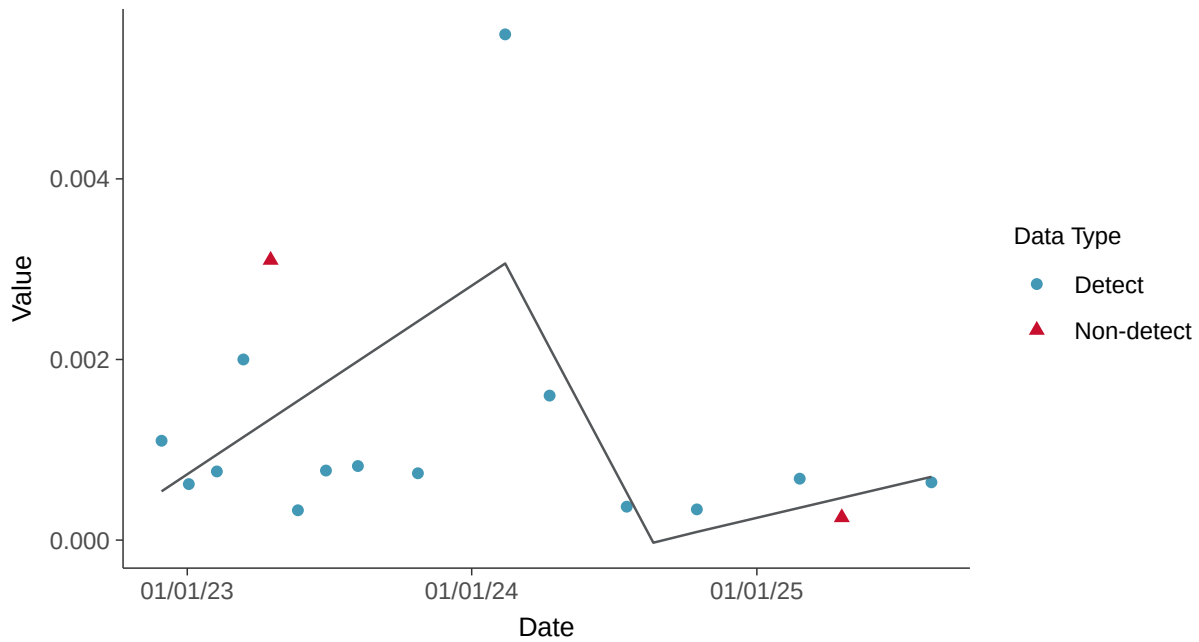
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-01R (mg/L)

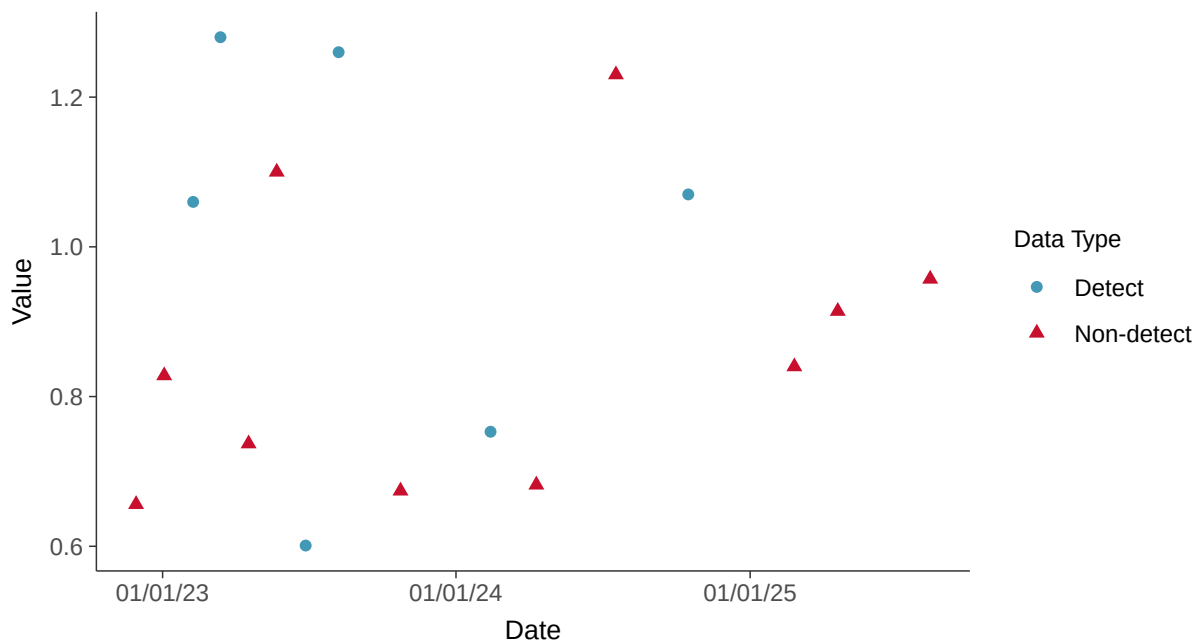


Appendix IV: Radium 226 and 228, MW-01R

ID: 11_2_4_121

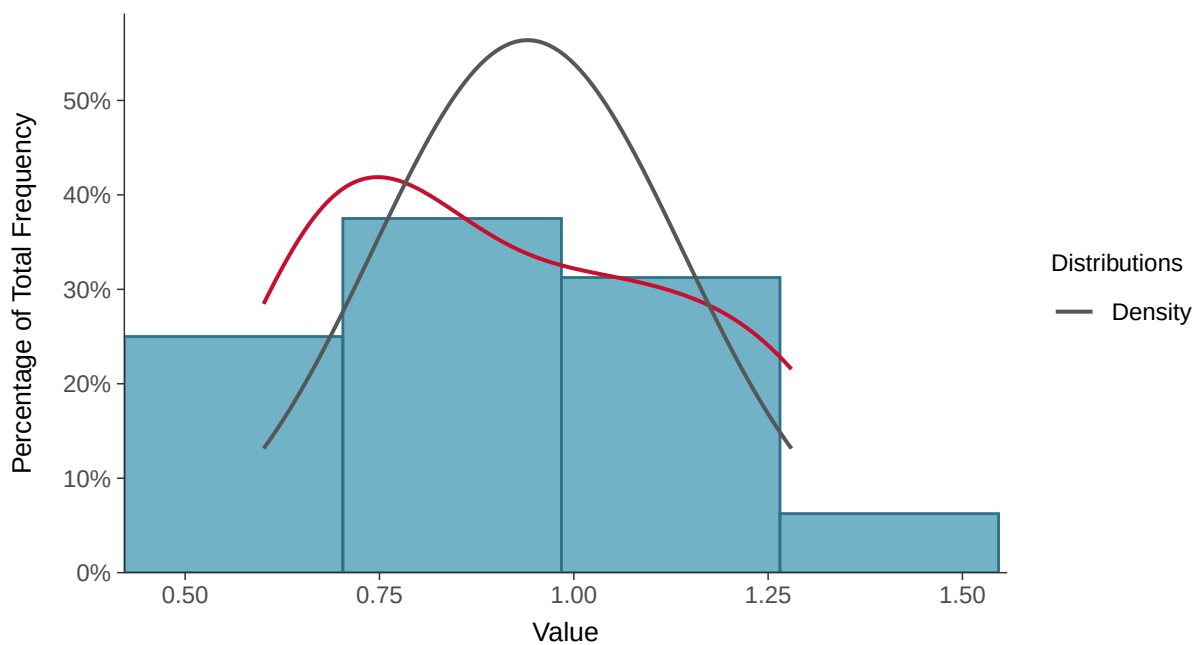
Scatter Plot

Radium 226 and 228, MW-01R (pCi/L)



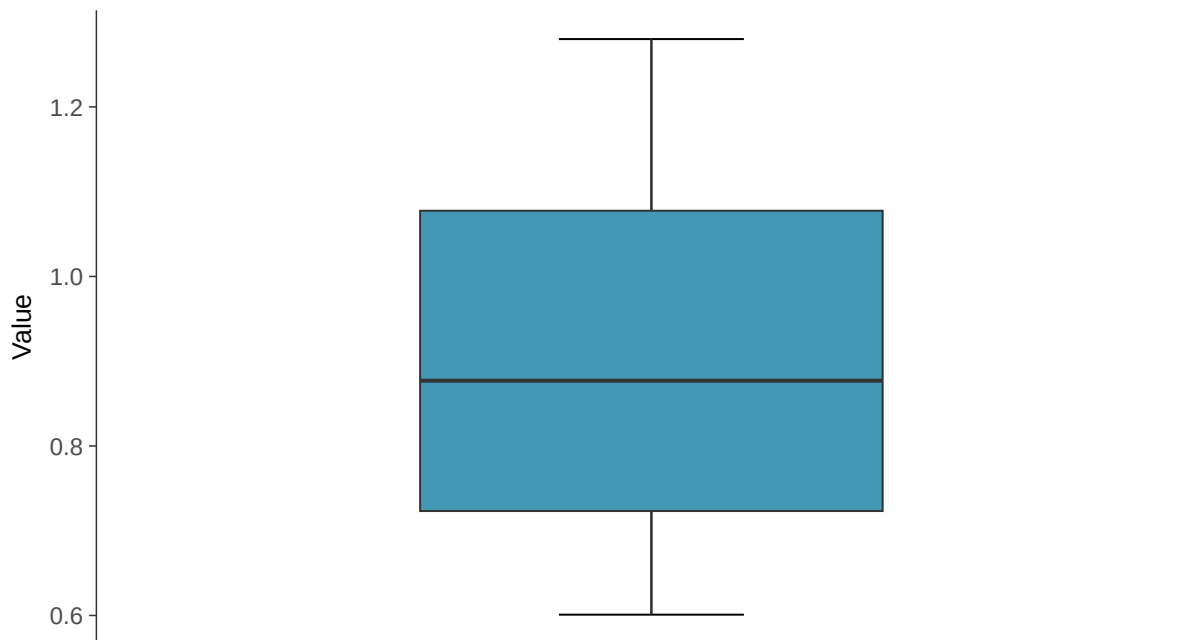
Histogram

Radium 226 and 228, MW-01R (pCi/L)



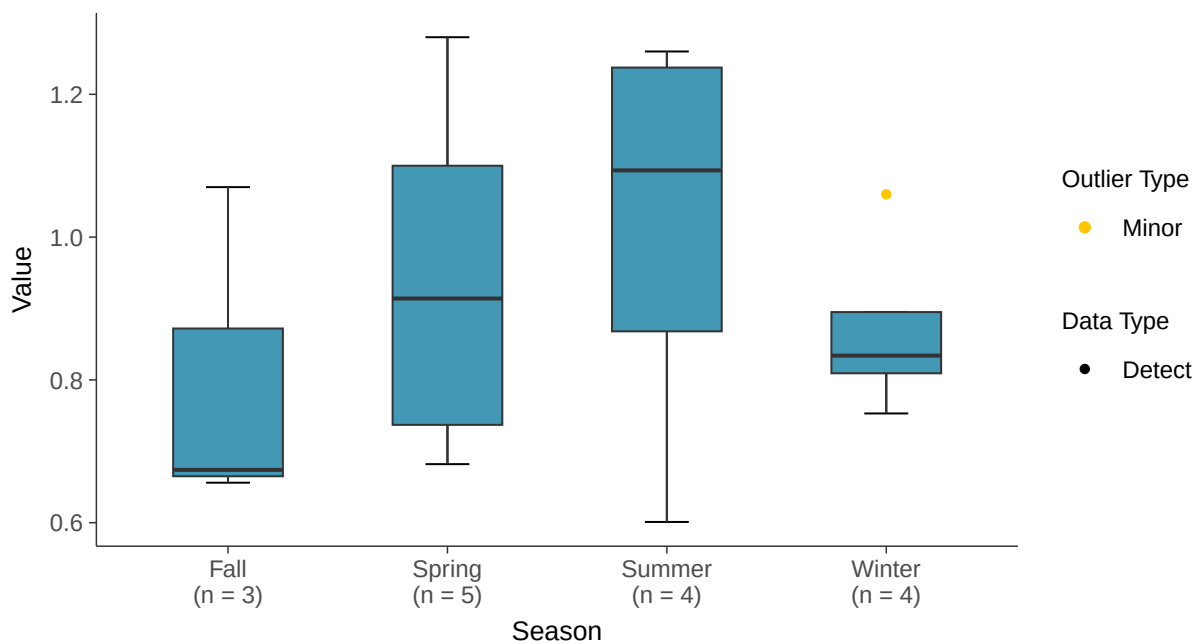
Boxplot

Radium 226 and 228, MW-01R (pCi/L)



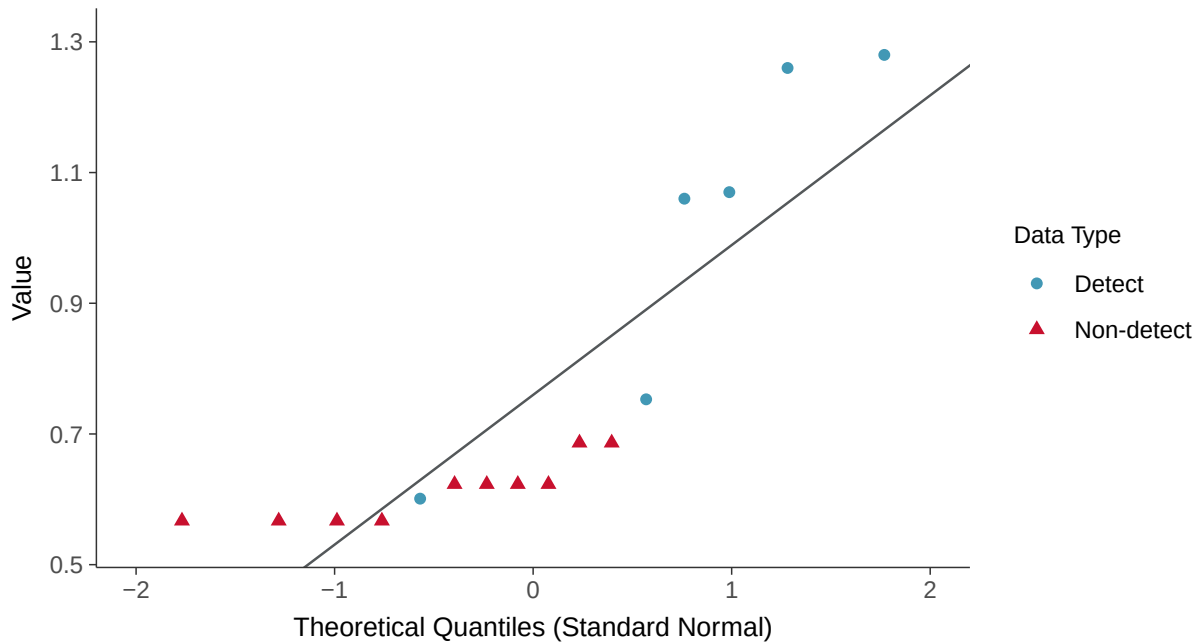
Boxplot by Season

Radium 226 and 228, MW-01R (pCi/L)



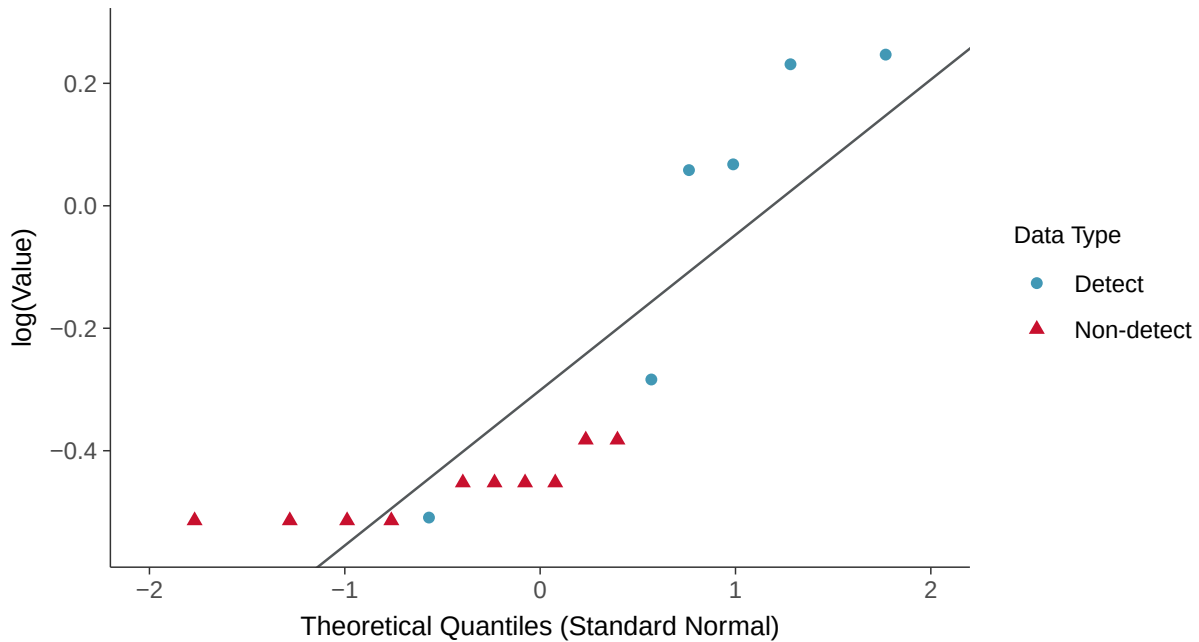
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



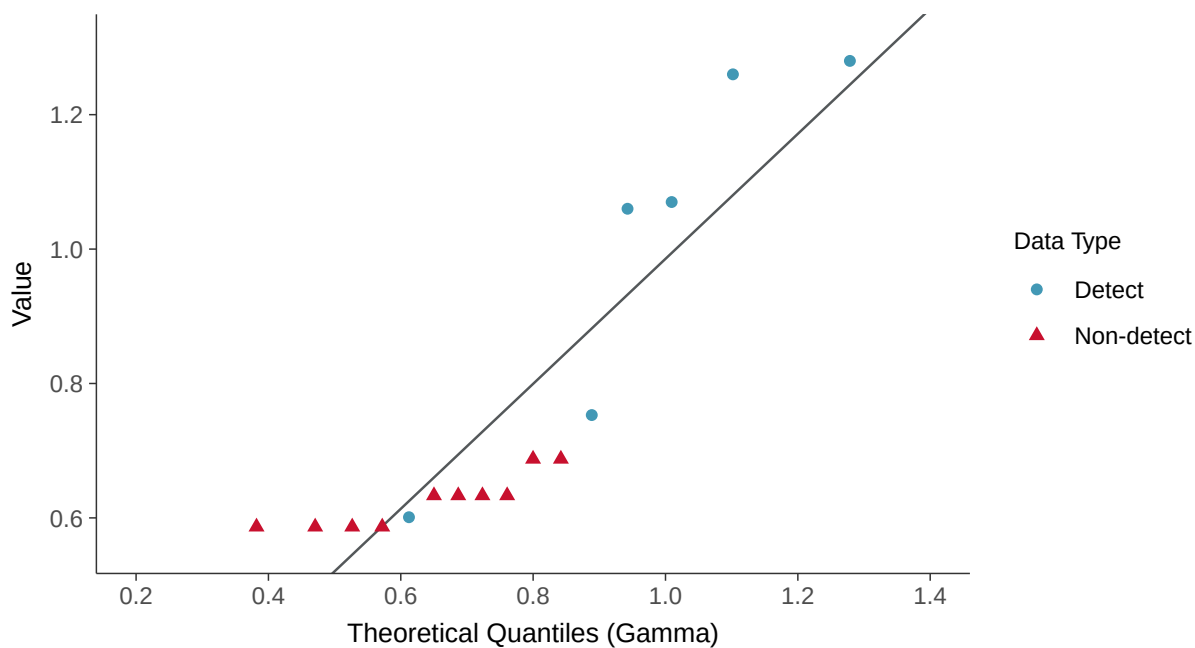
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



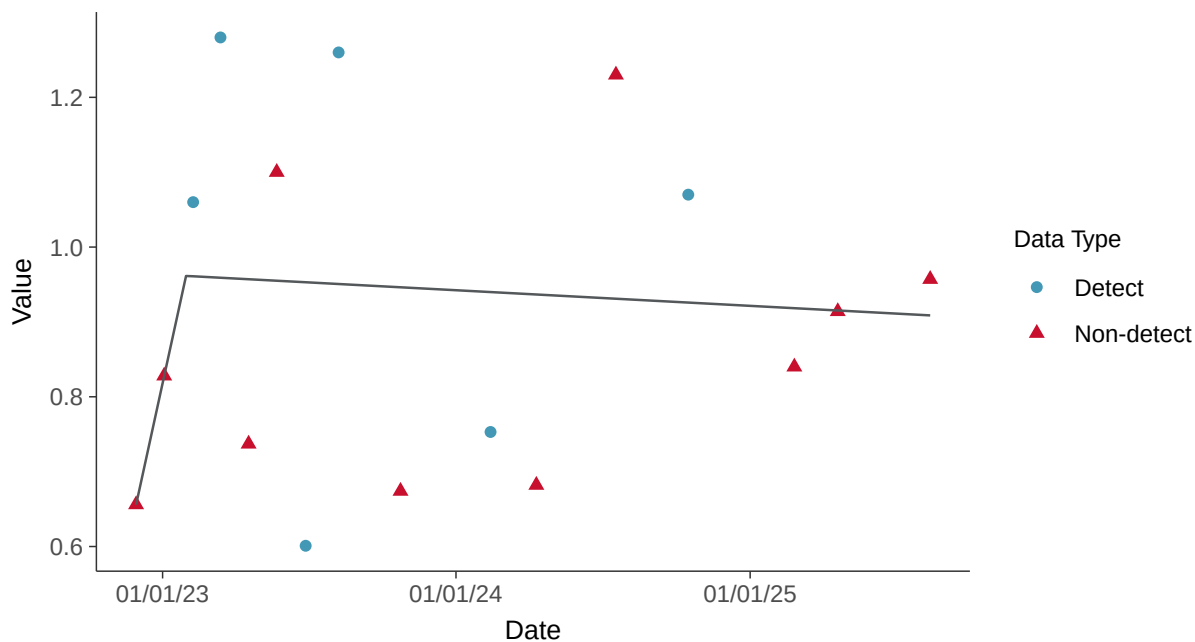
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



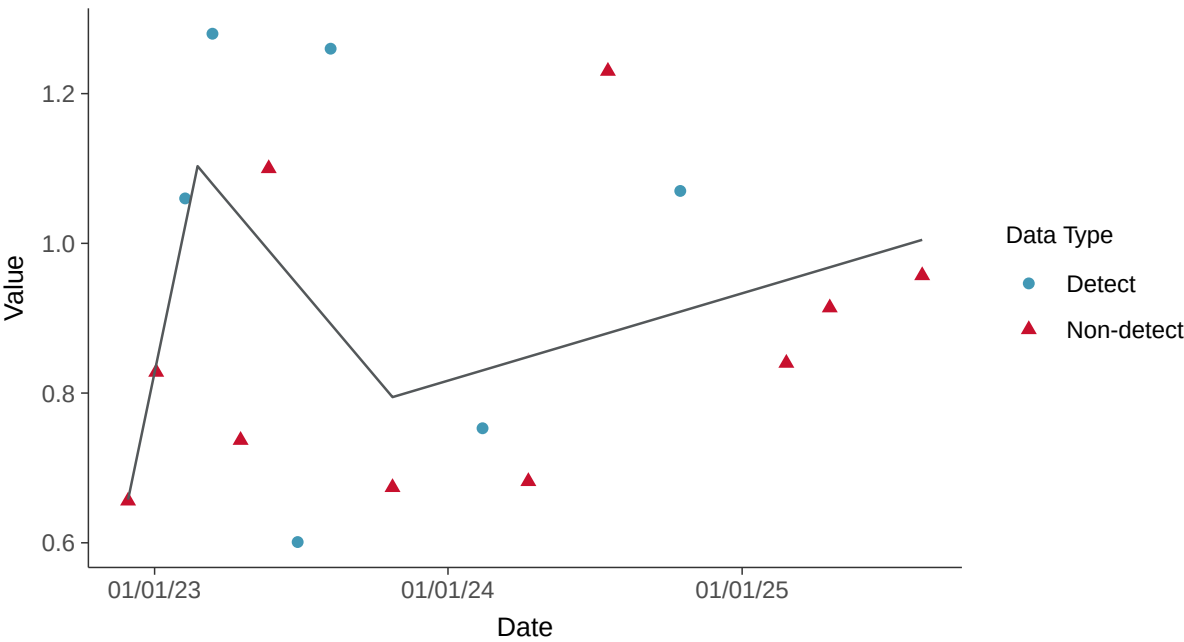
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-01R (pCi/L)



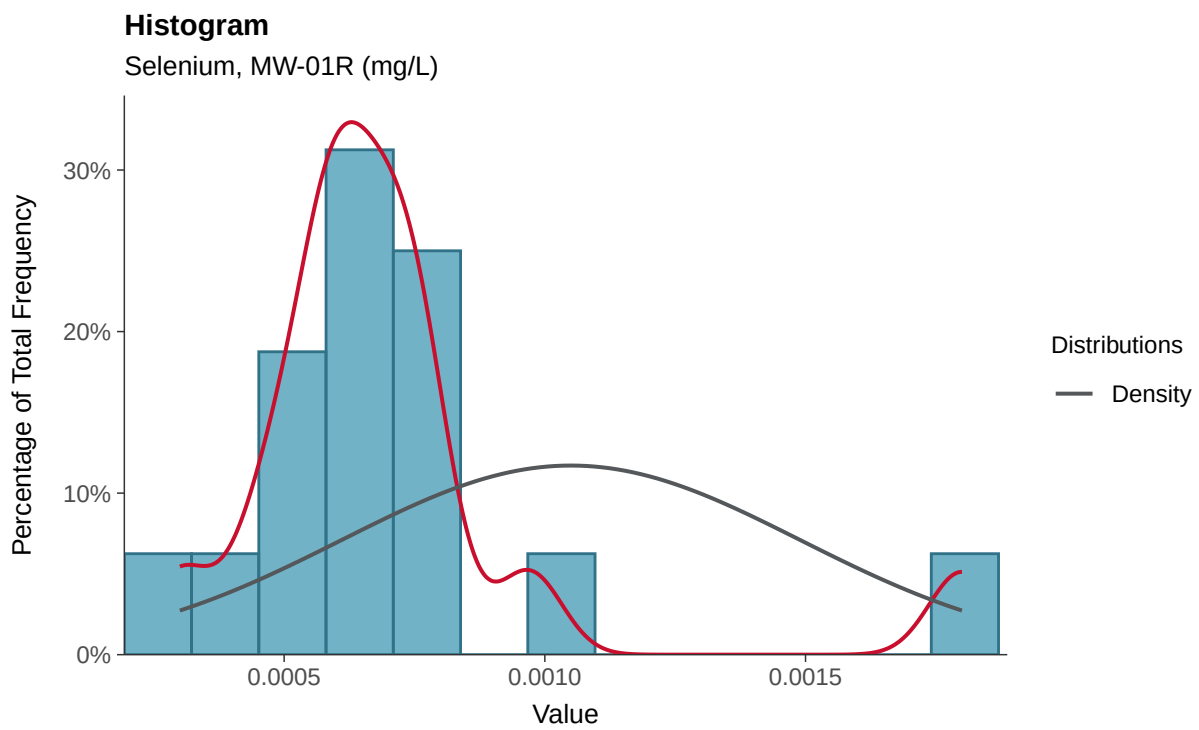
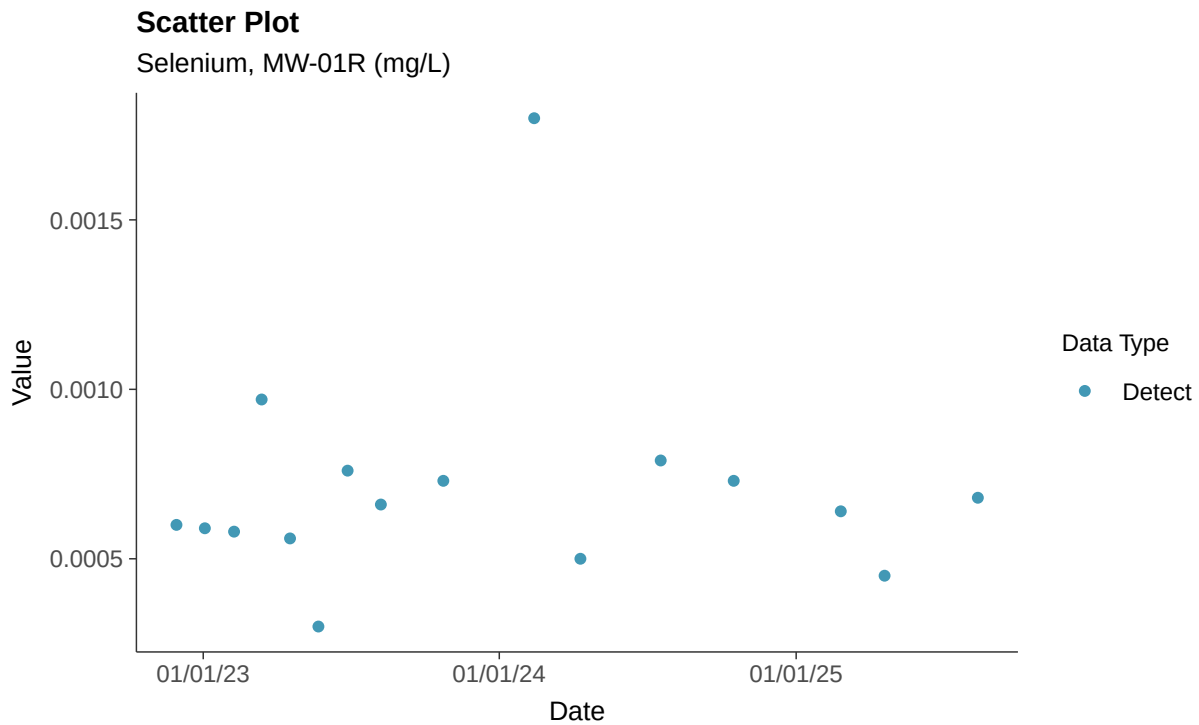


Trend Regression: Piecewise Linear-Linear-Linear
Radium 226 and 228, MW-01R (pCi/L)



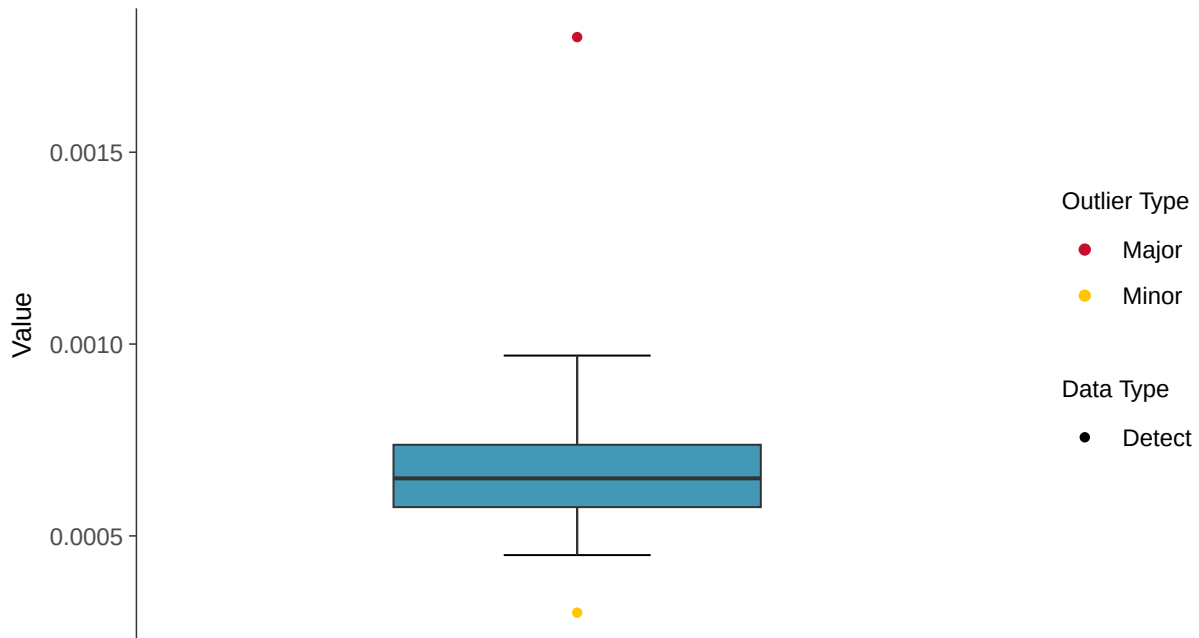
Appendix IV: Selenium, MW-01R

ID: 11_2_4_122



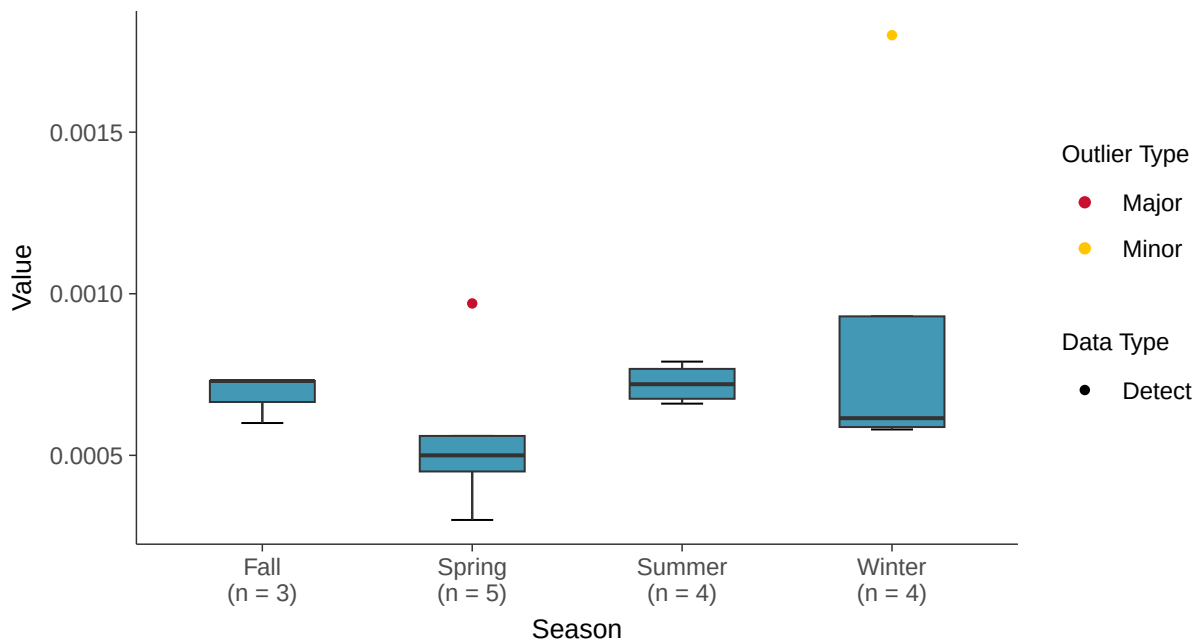
Boxplot

Selenium, MW-01R (mg/L)



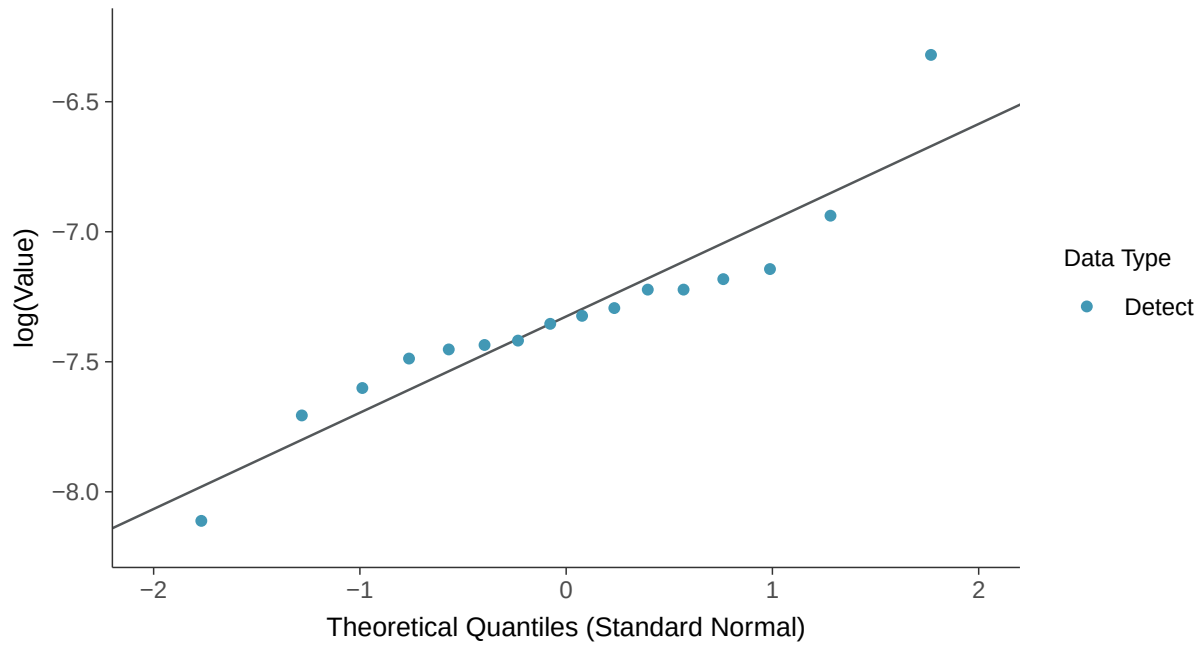
Boxplot by Season

Selenium, MW-01R (mg/L)



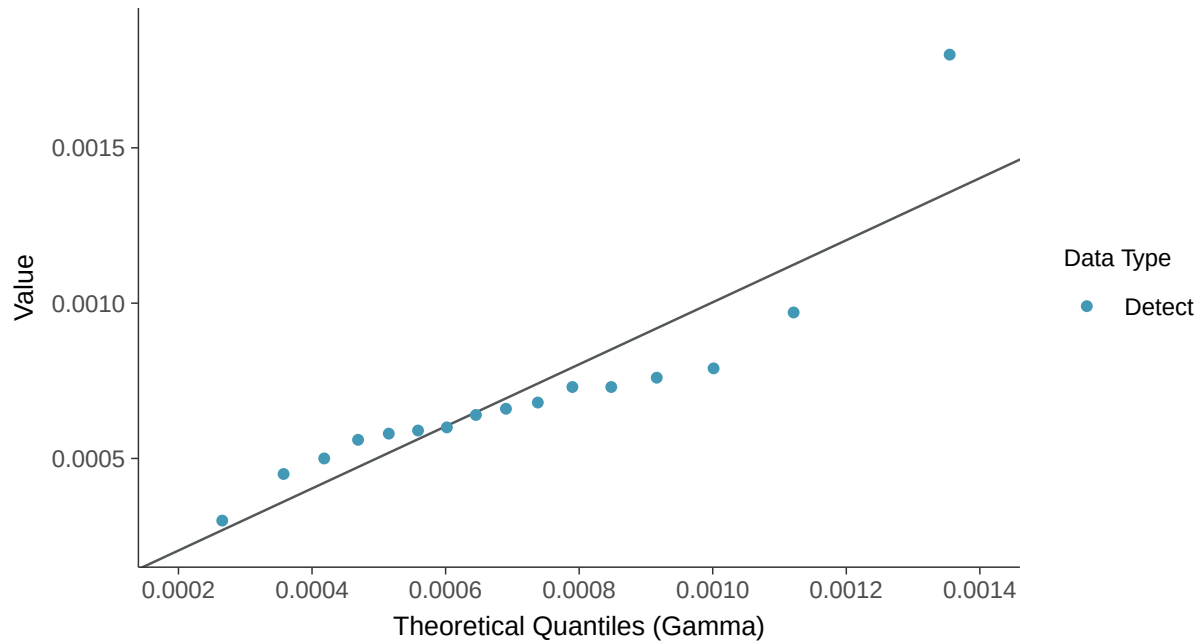
Lognormal Q-Q plot

Selenium, MW-01R (mg/L)



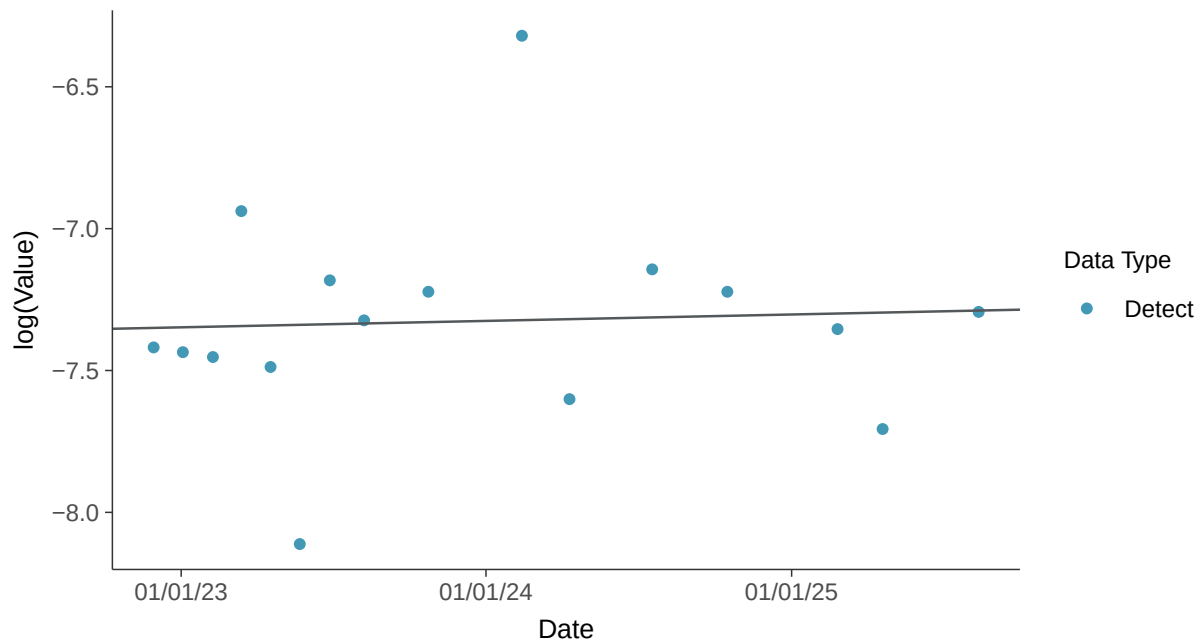
Gamma Q-Q plot

Selenium, MW-01R (mg/L)



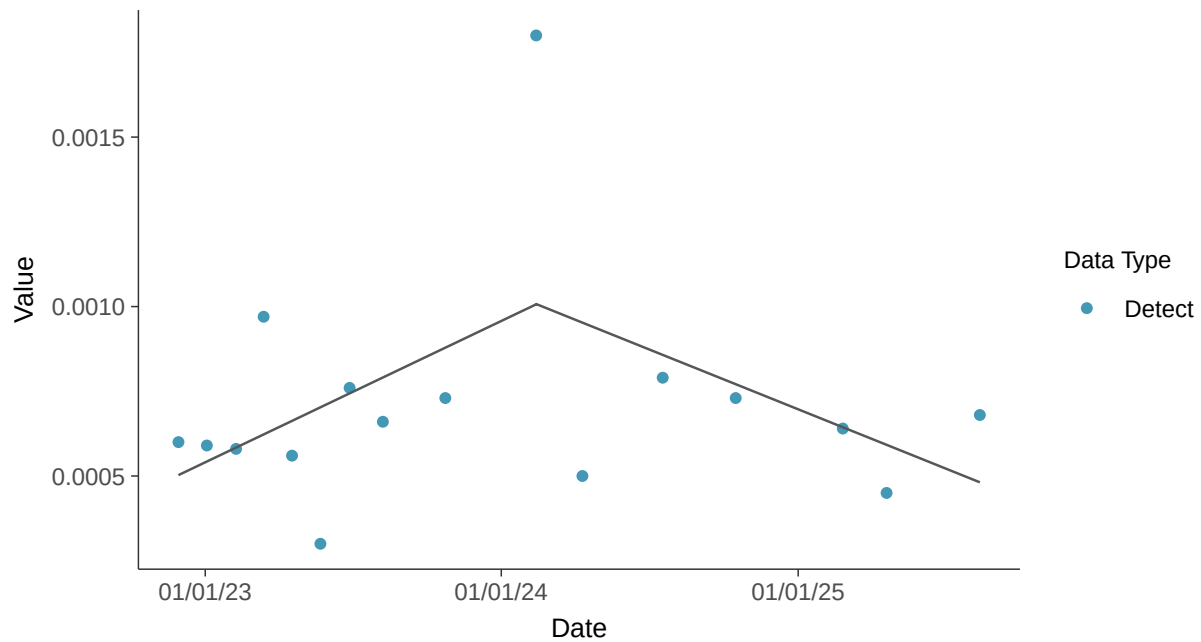
Trend Regression: Lognormal MLE

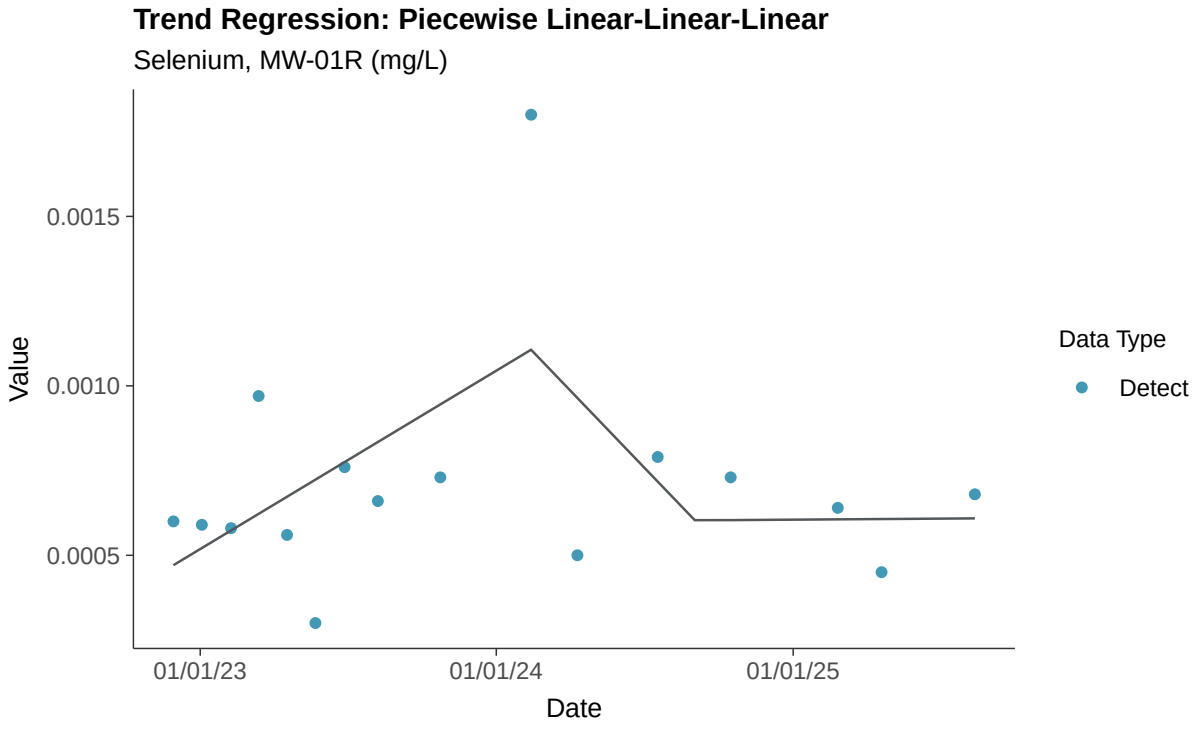
Selenium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

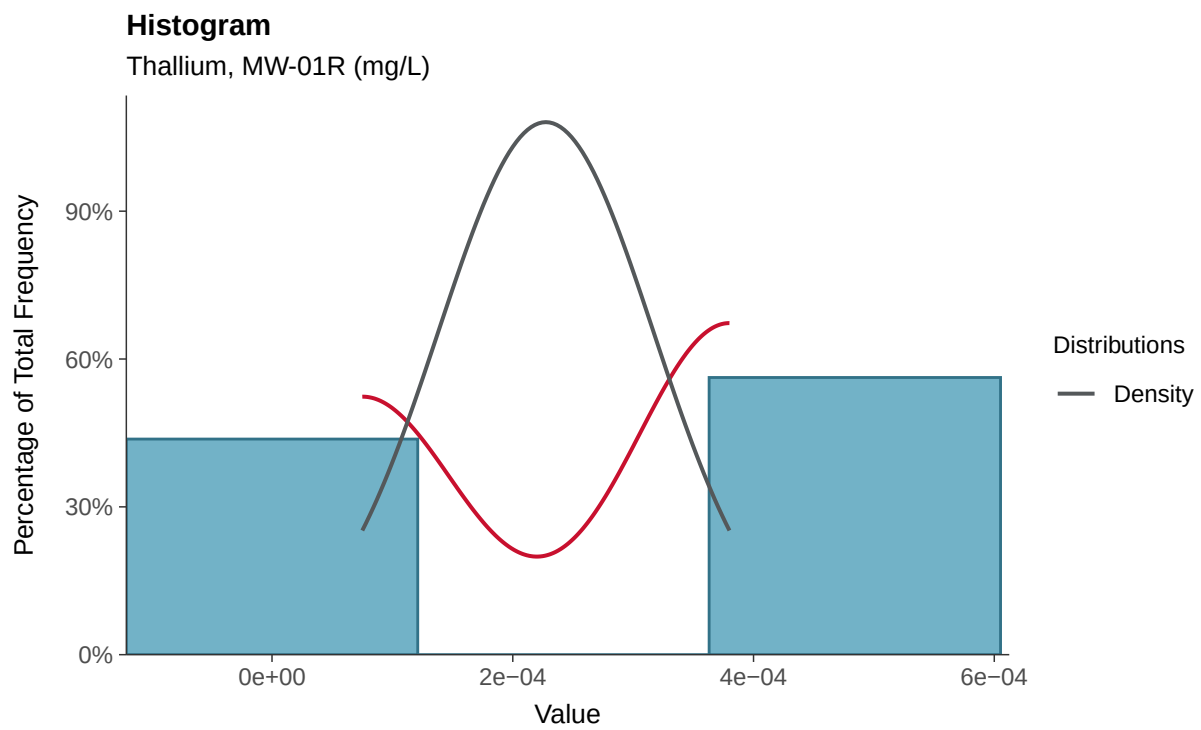
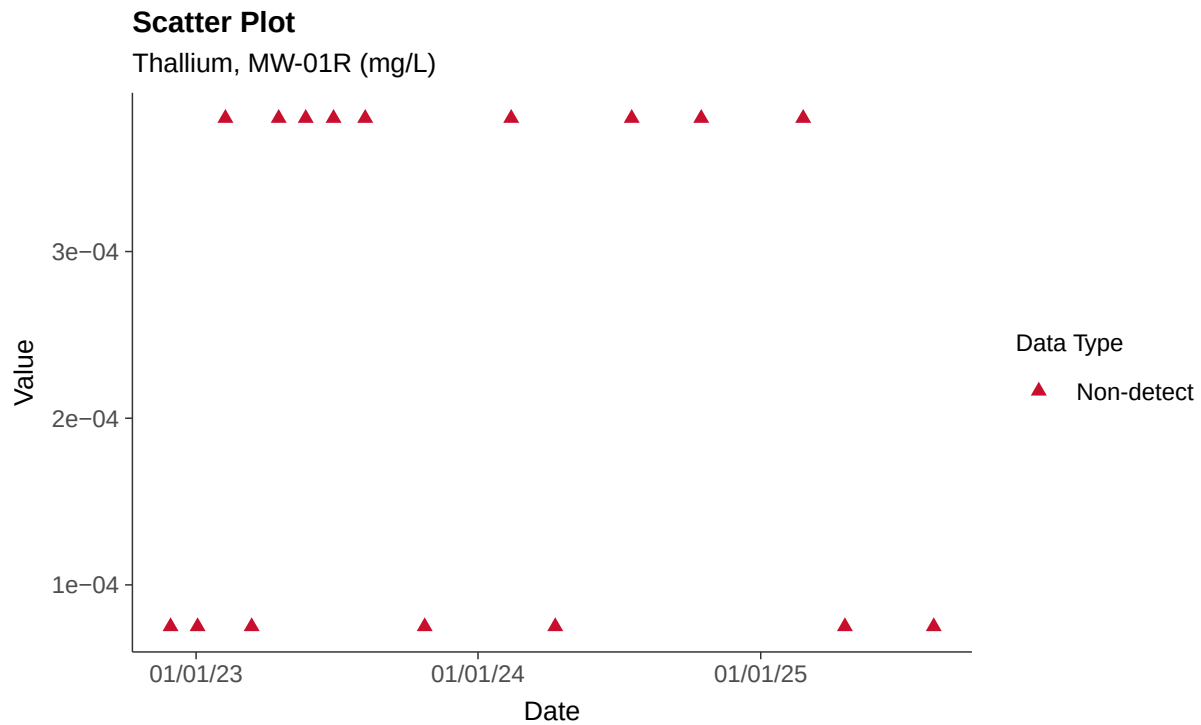
Selenium, MW-01R (mg/L)





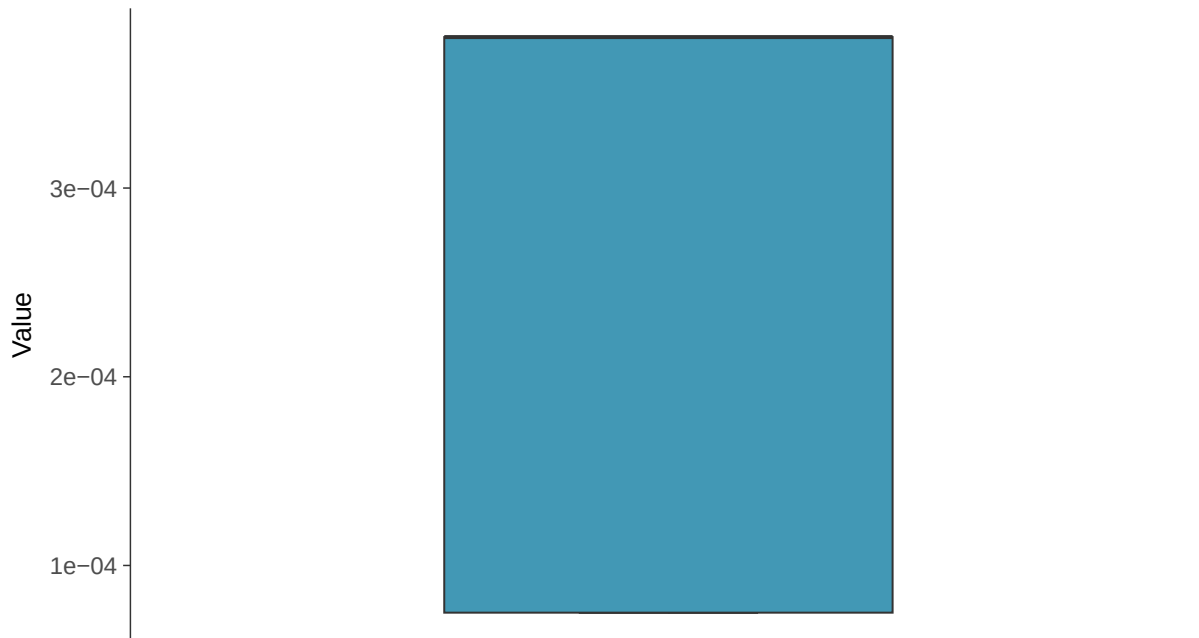
Appendix IV: Thallium, MW-01R

ID: 11_2_4_125



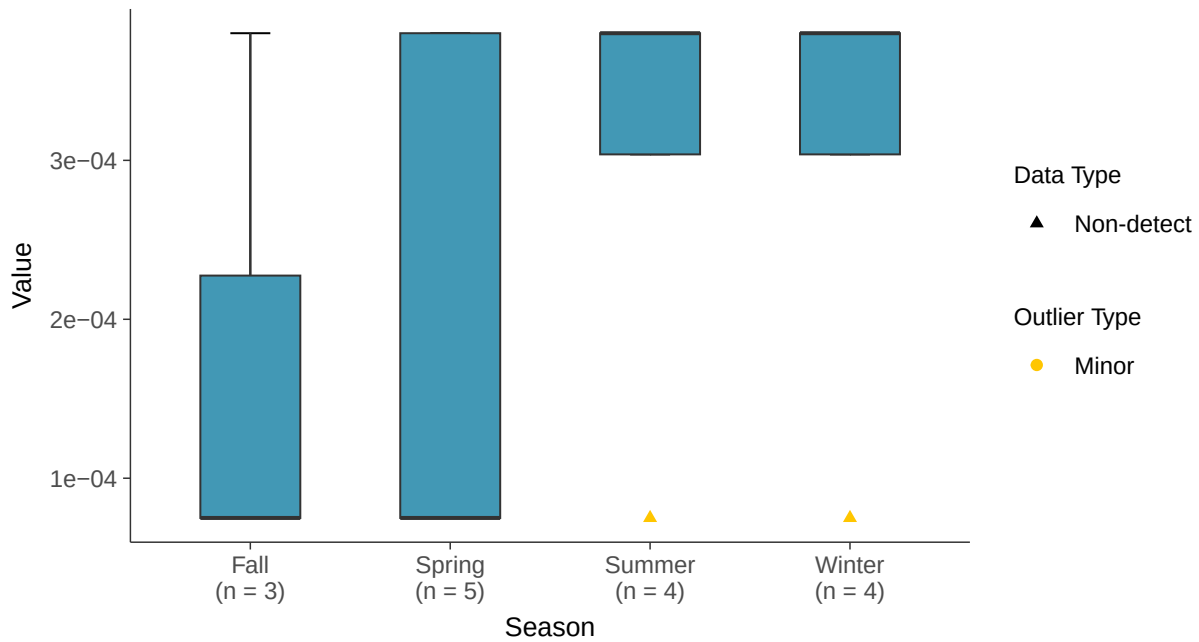
Boxplot

Thallium, MW-01R (mg/L)



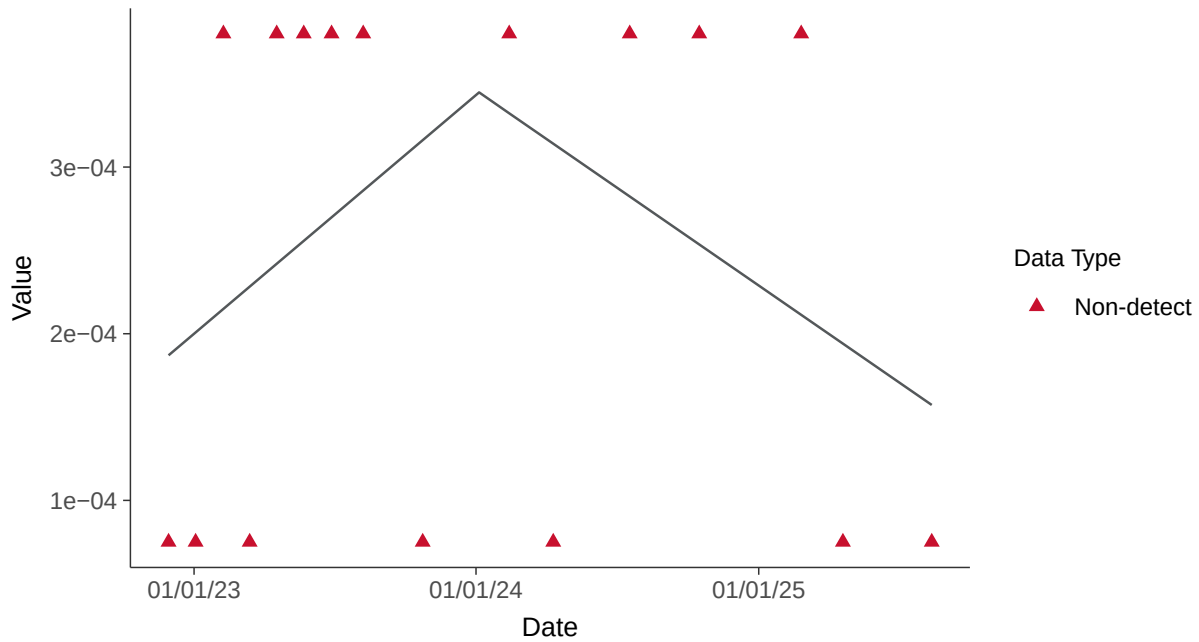
Boxplot by Season

Thallium, MW-01R (mg/L)



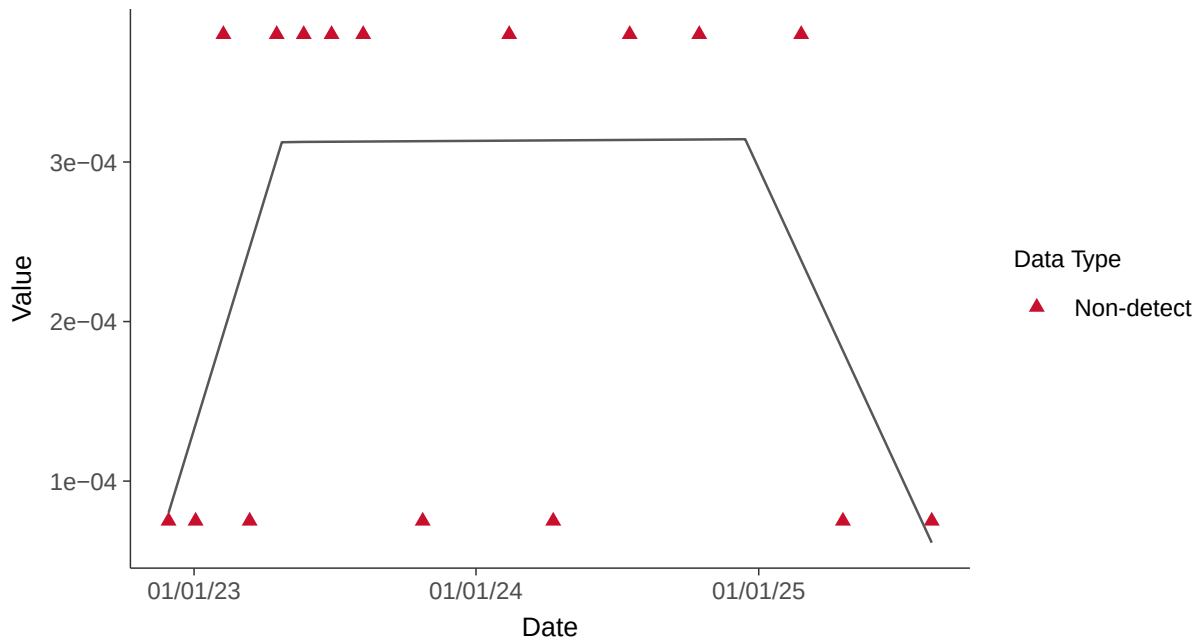
Trend Regression: Piecewise Linear-Linear

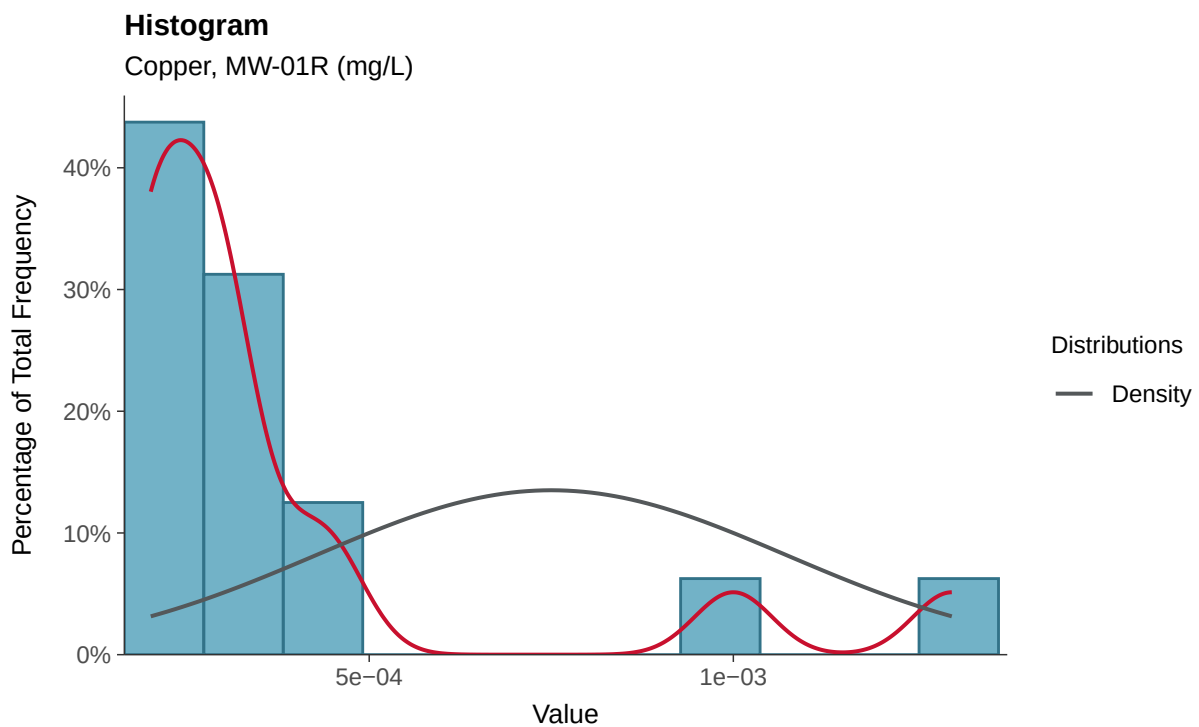
Thallium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

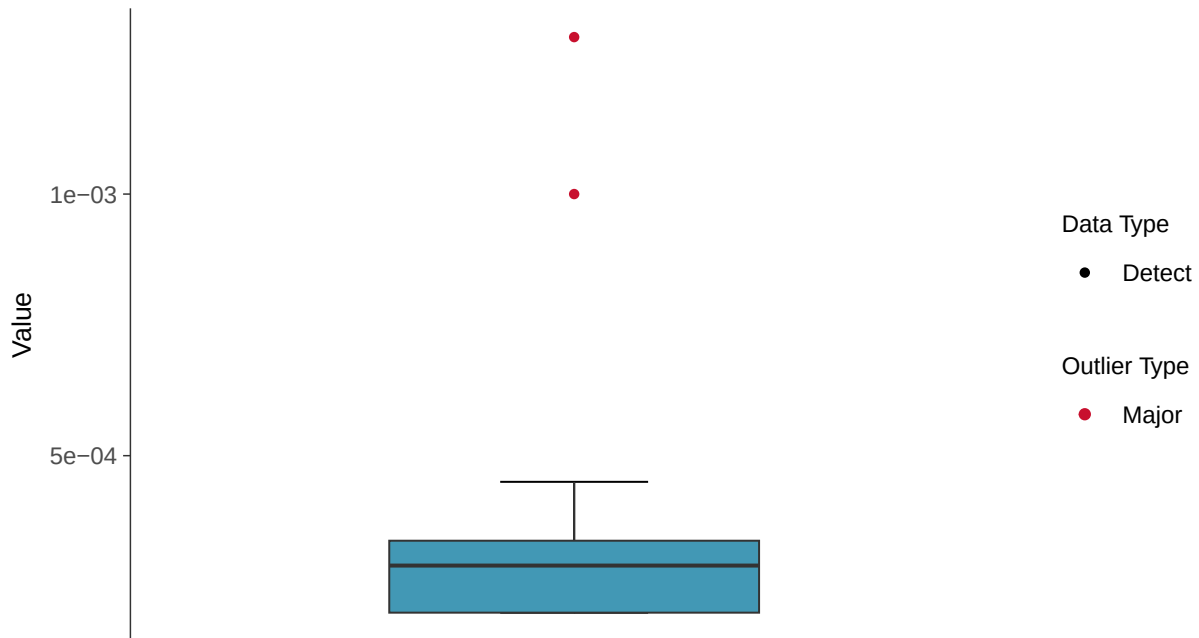
Thallium, MW-01R (mg/L)





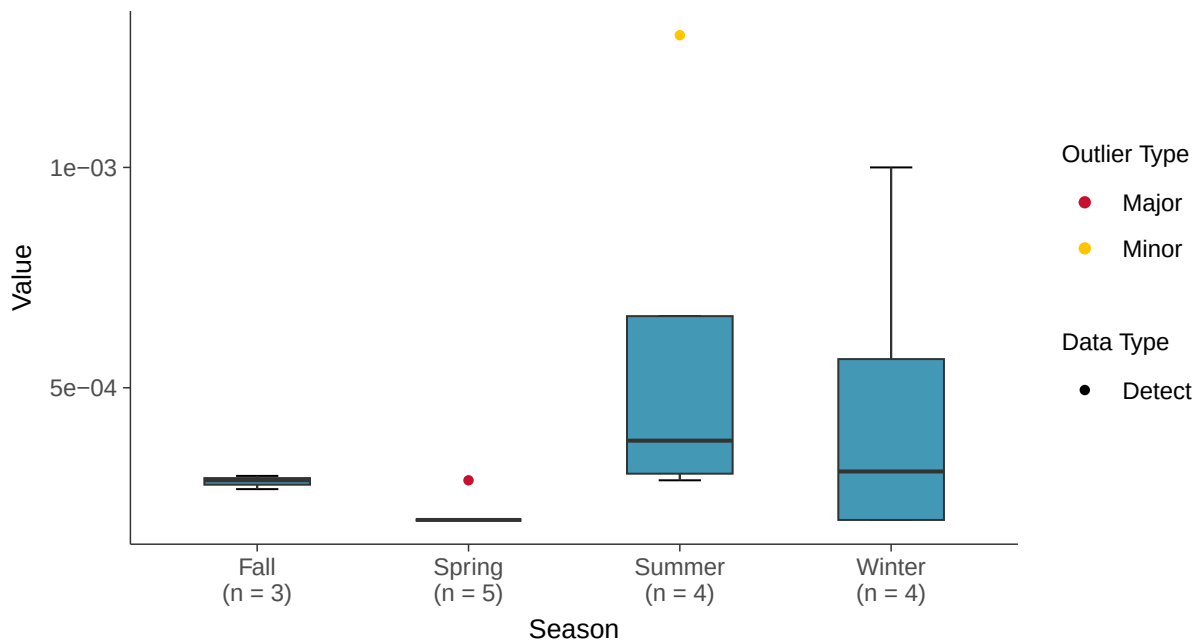
Boxplot

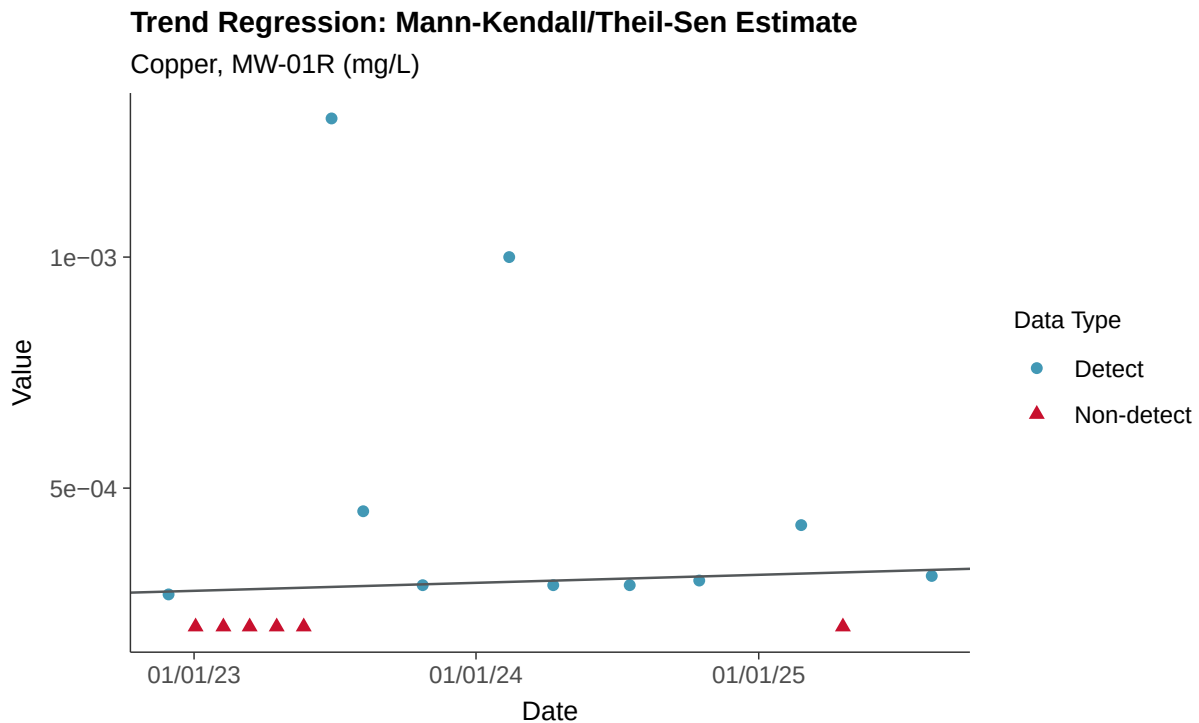
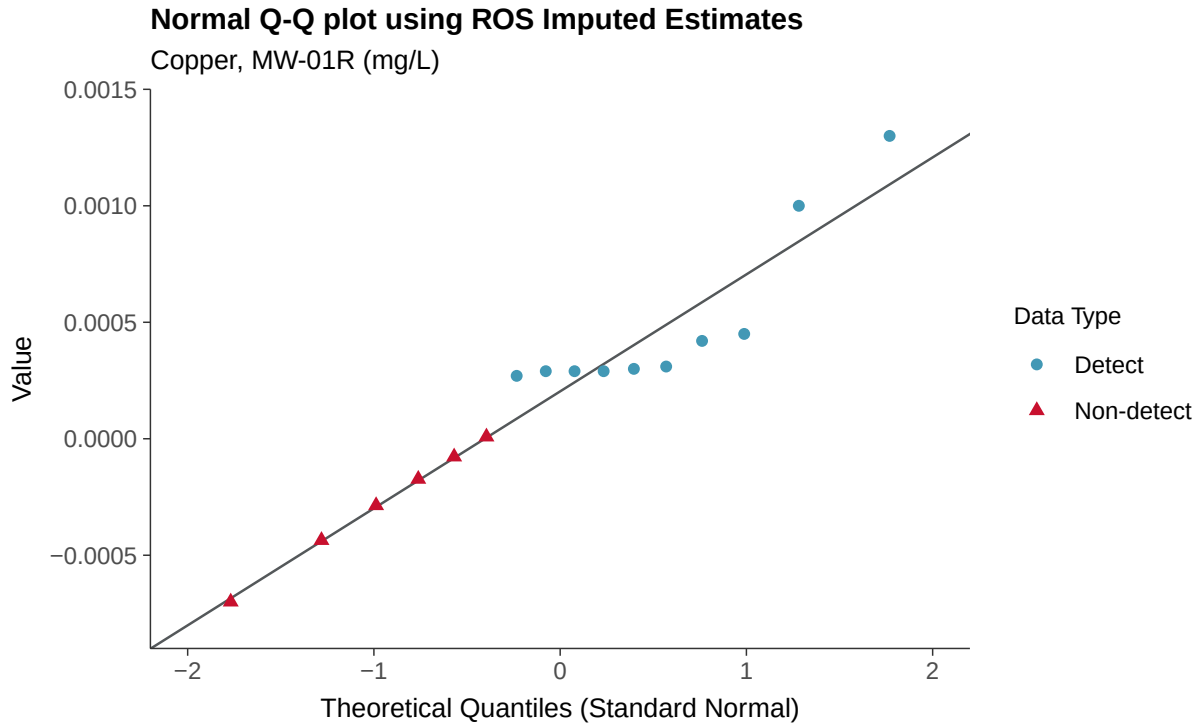
Copper, MW-01R (mg/L)

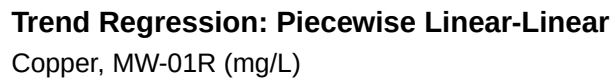


Boxplot by Season

Copper, MW-01R (mg/L)

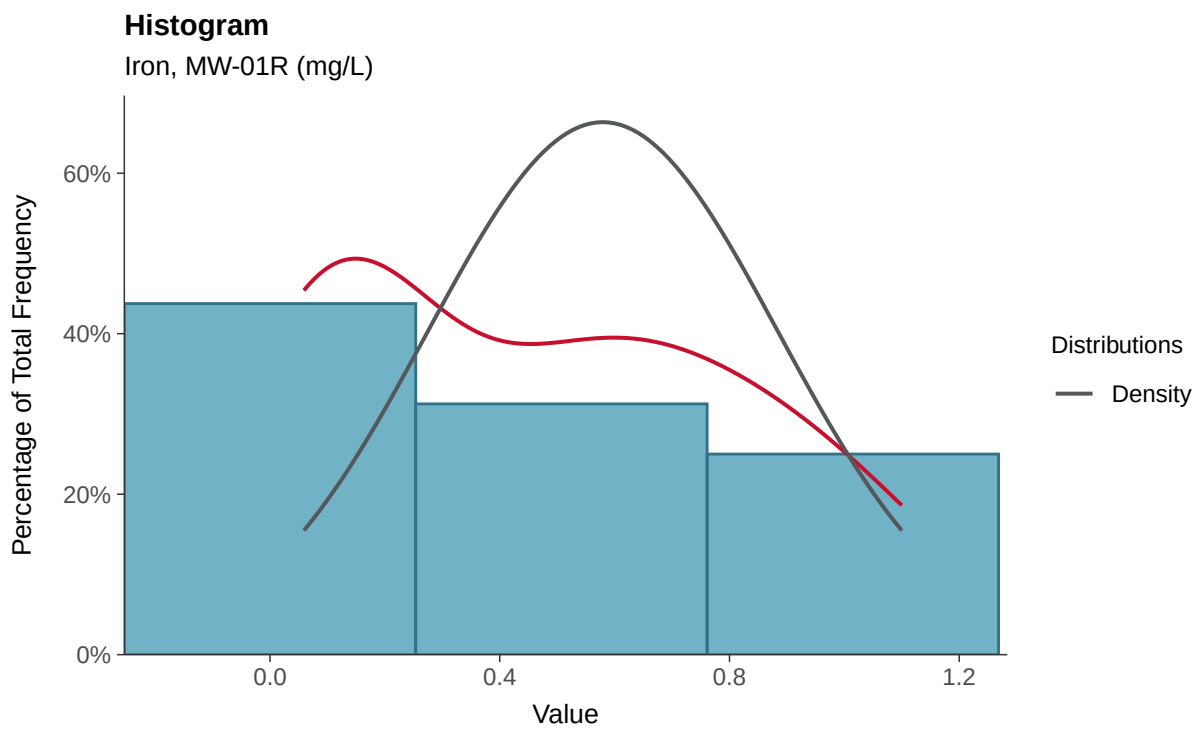
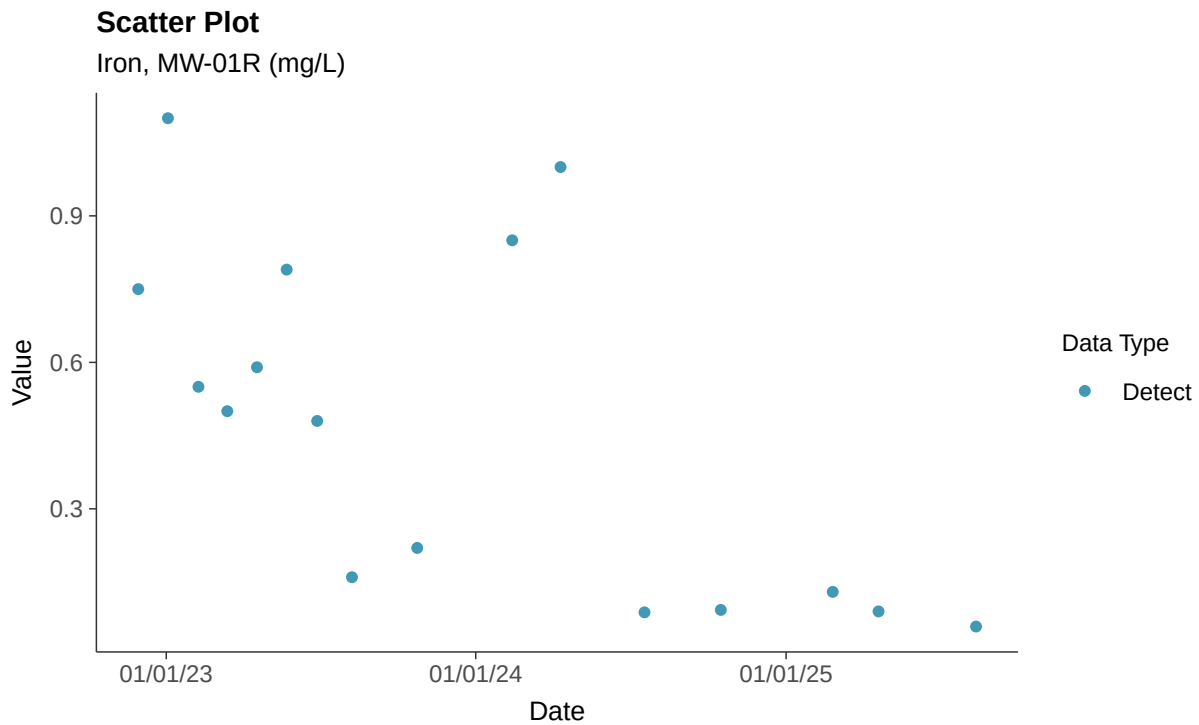






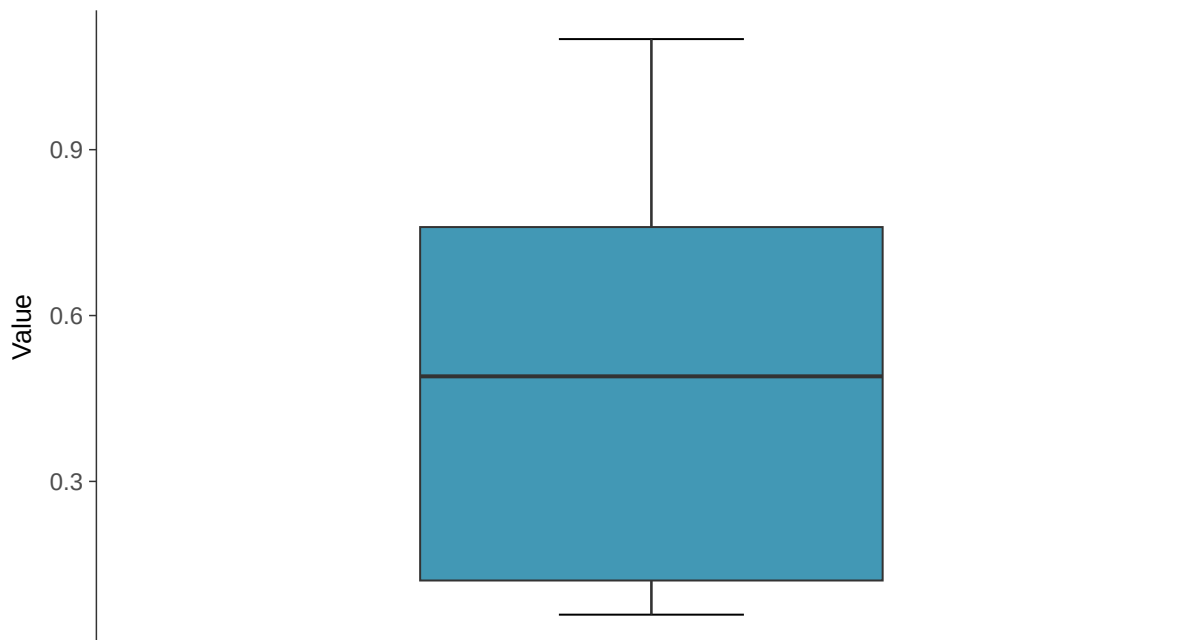
Part 115: Iron, MW-01R

ID: 11_2_5_114



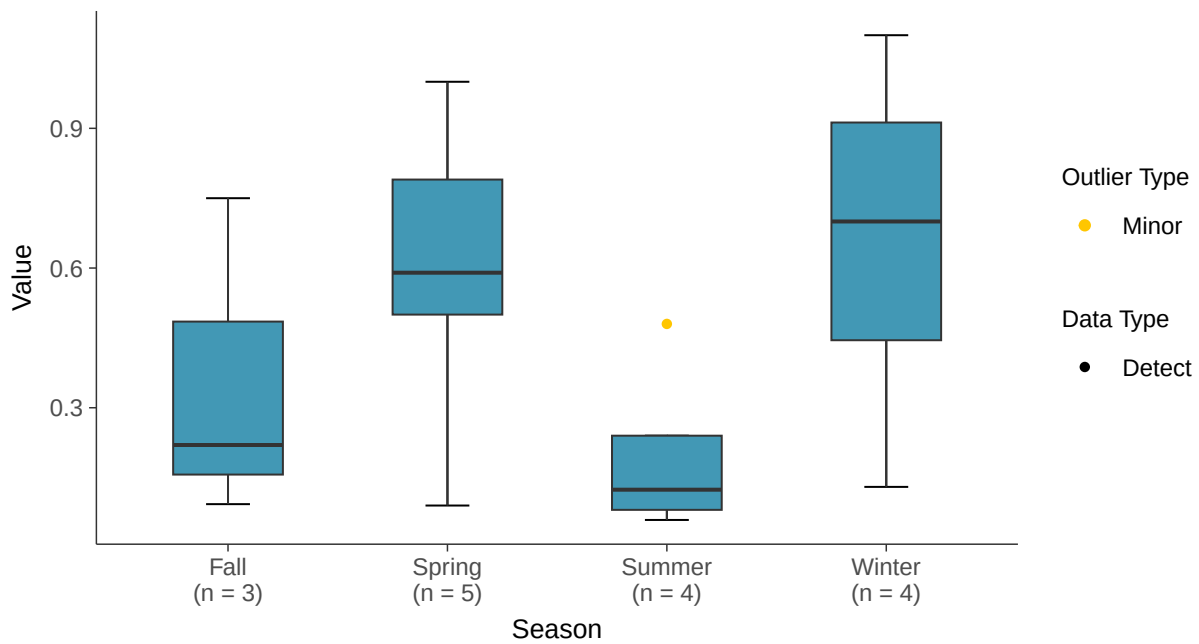
Boxplot

Iron, MW-01R (mg/L)

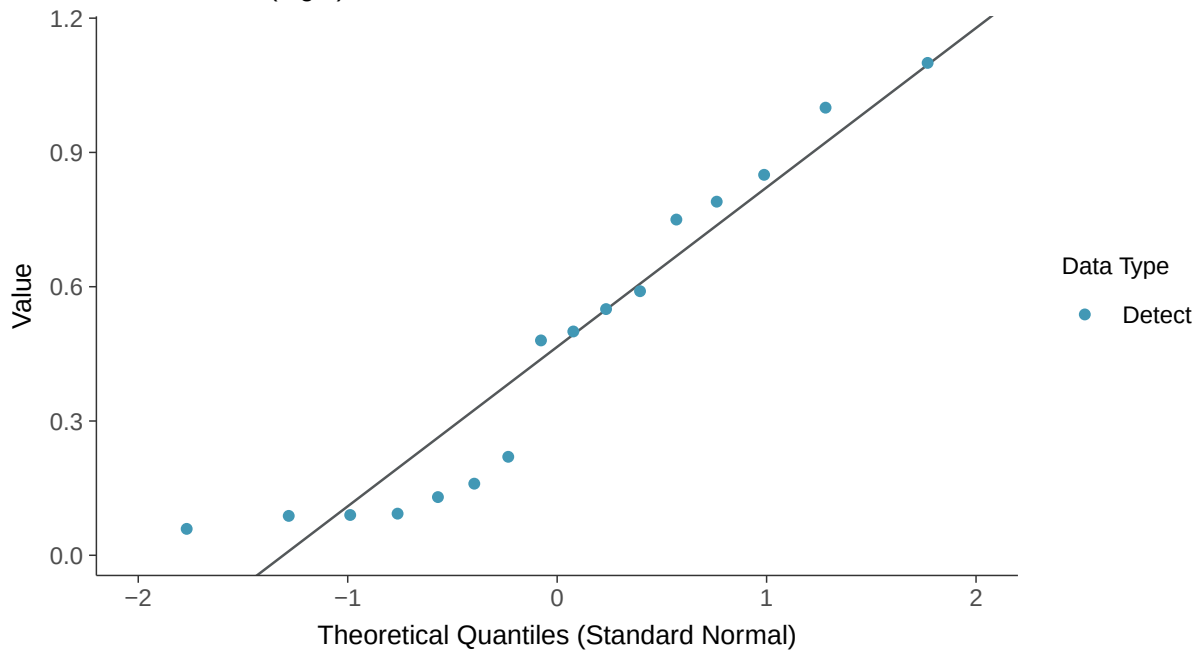


Boxplot by Season

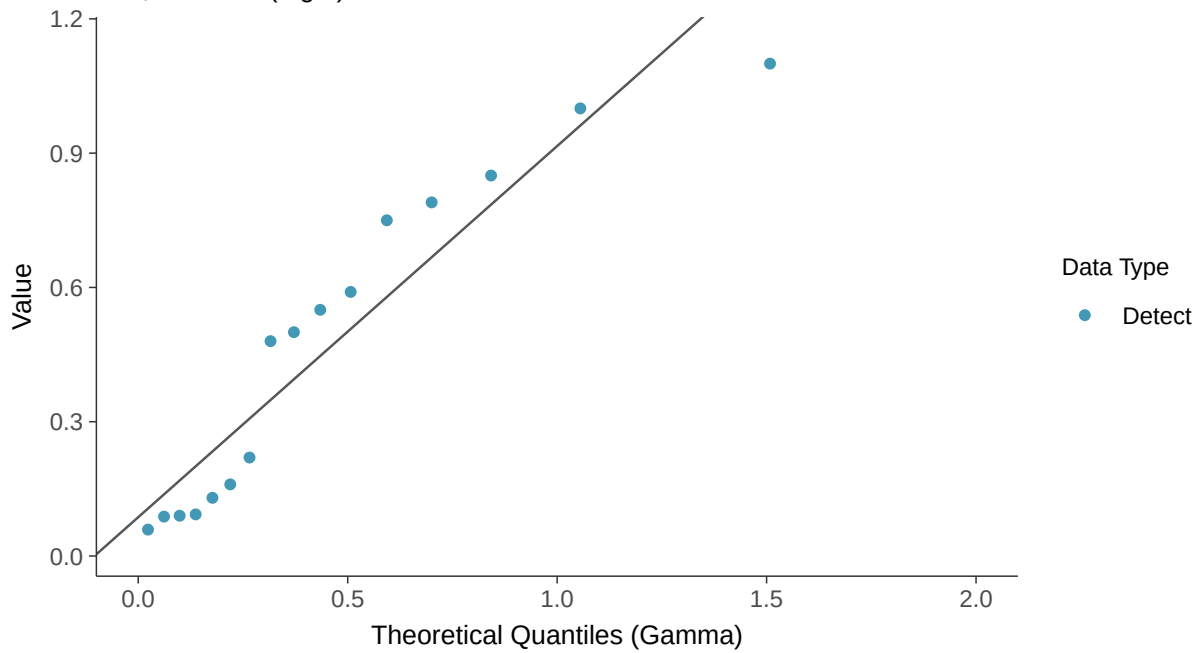
Iron, MW-01R (mg/L)



Normal Q-Q plot
Iron, MW-01R (mg/L)

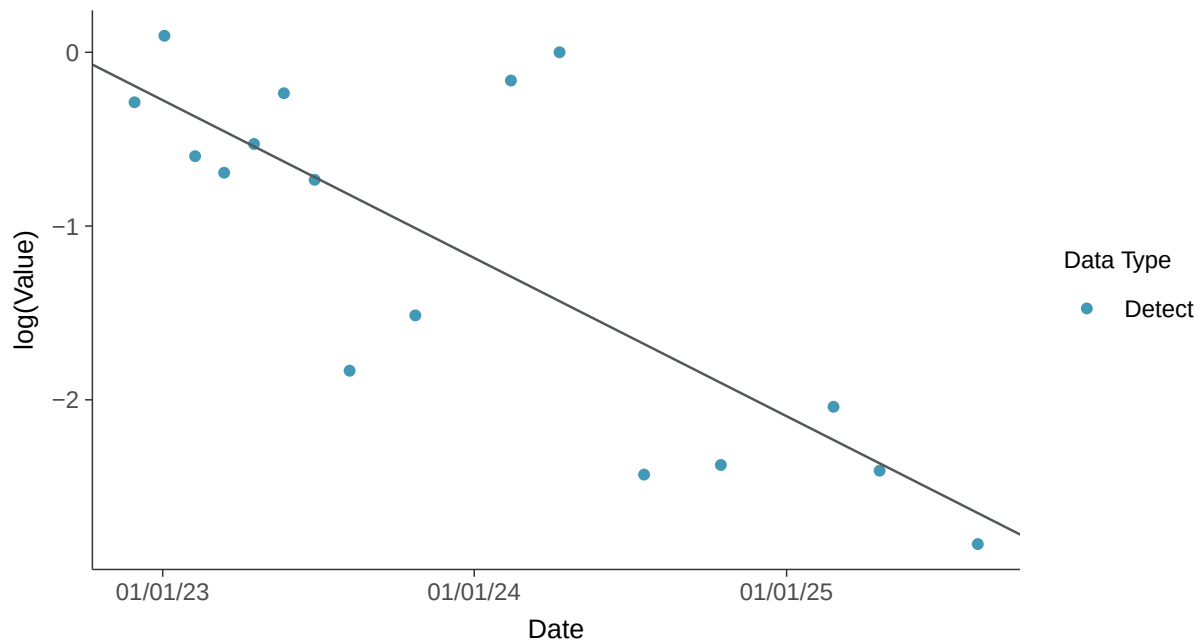


Gamma Q-Q plot
Iron, MW-01R (mg/L)



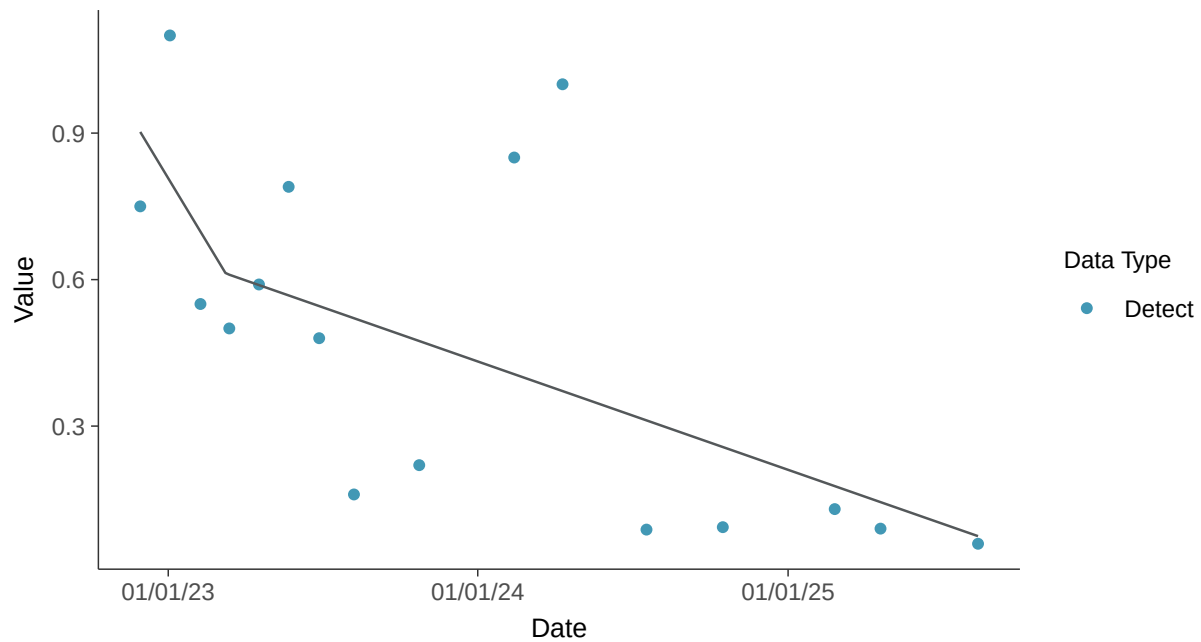
Trend Regression: Lognormal MLE

Iron, MW-01R (mg/L)



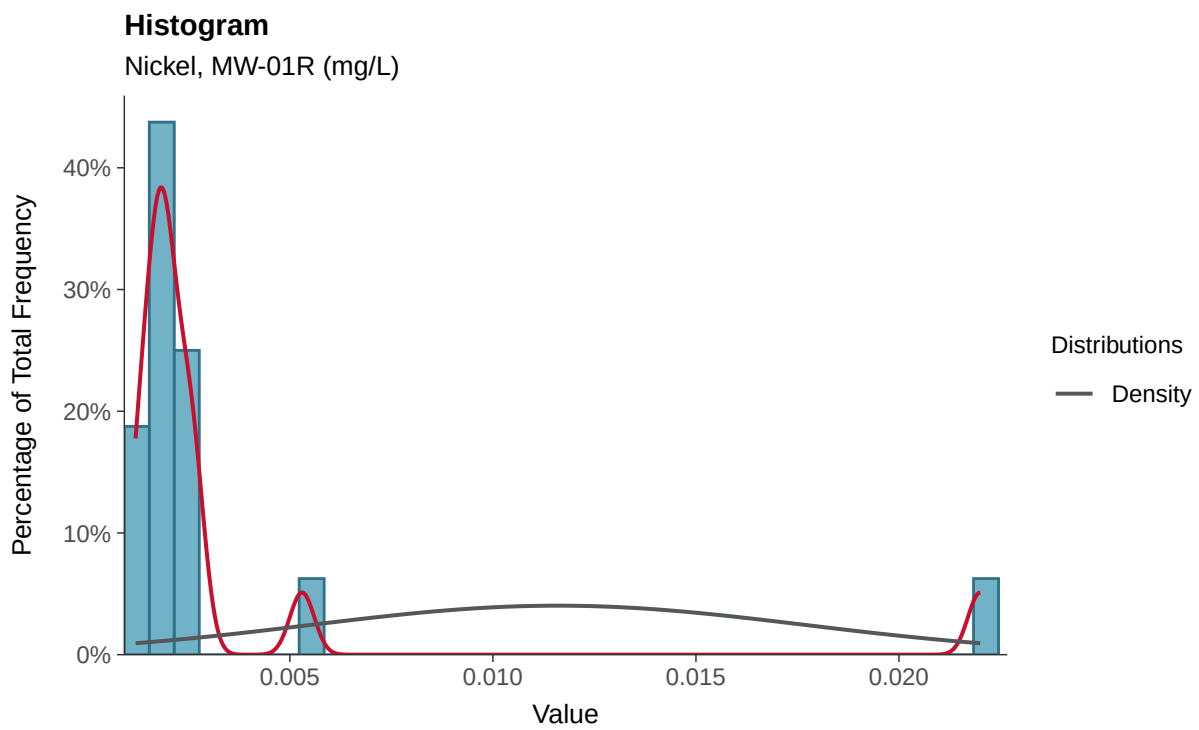
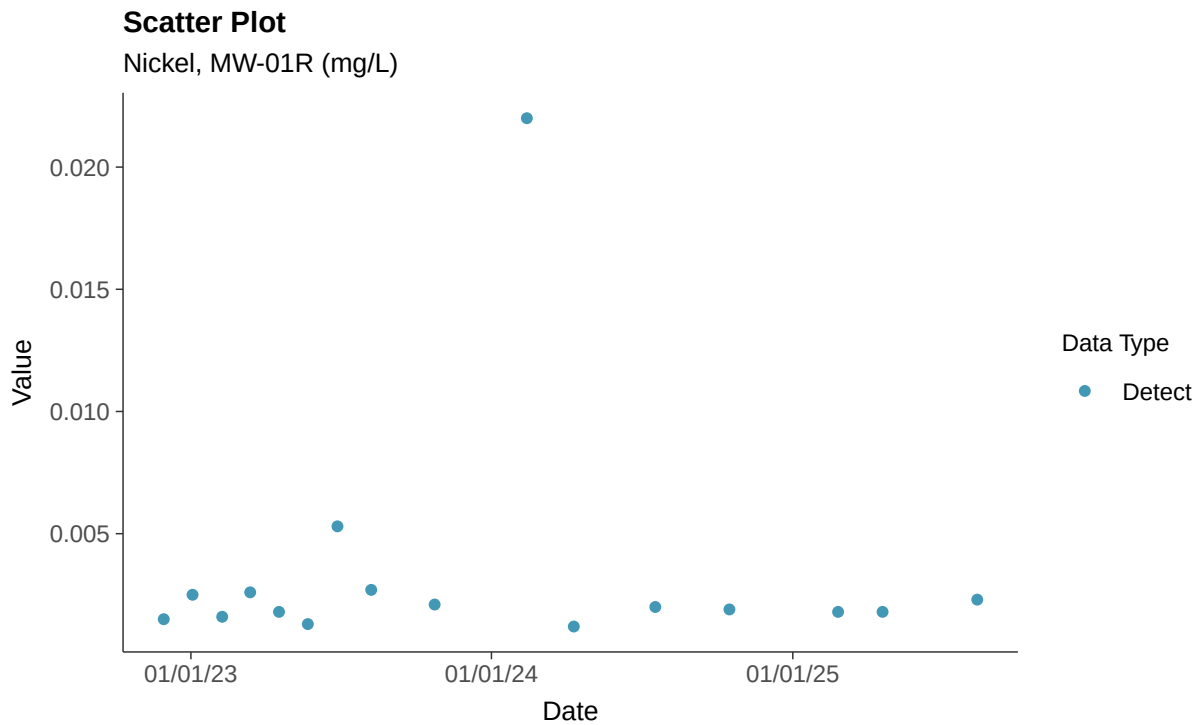
Trend Regression: Piecewise Linear-Linear

Iron, MW-01R (mg/L)



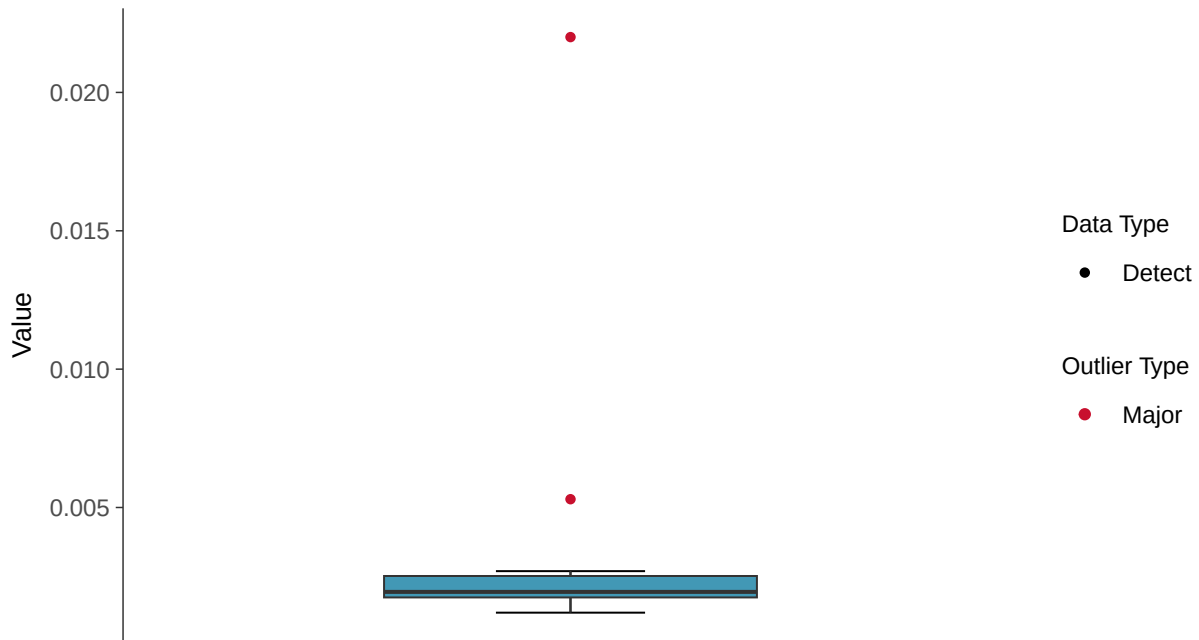
Part 115: Nickel, MW-01R

ID: 11_2_5_119



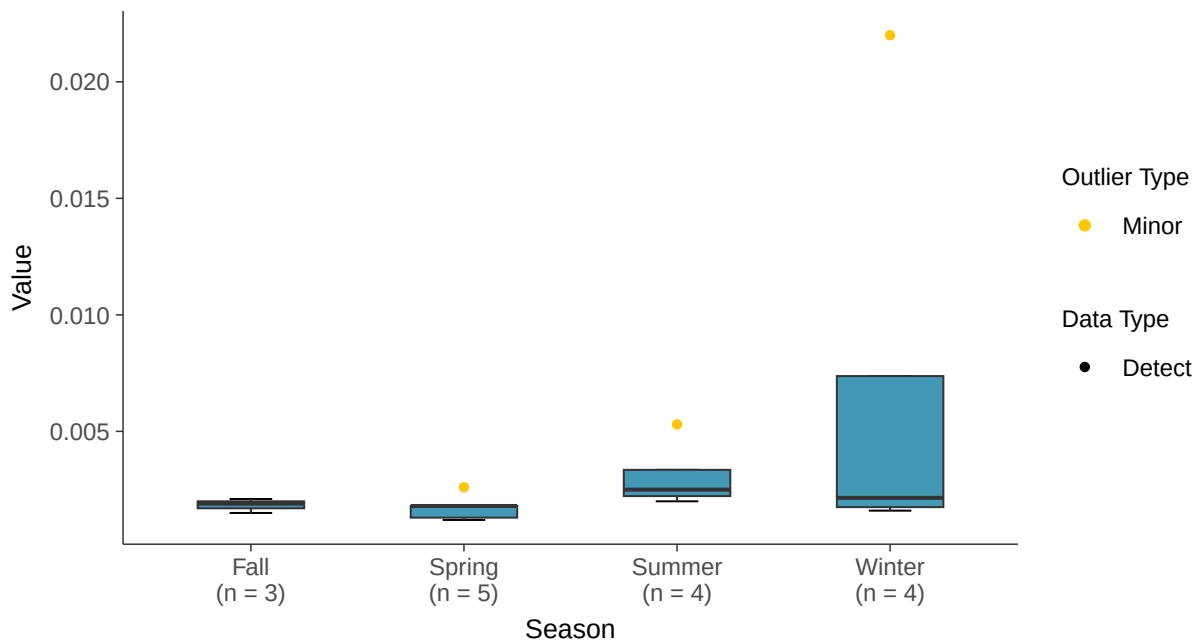
Boxplot

Nickel, MW-01R (mg/L)

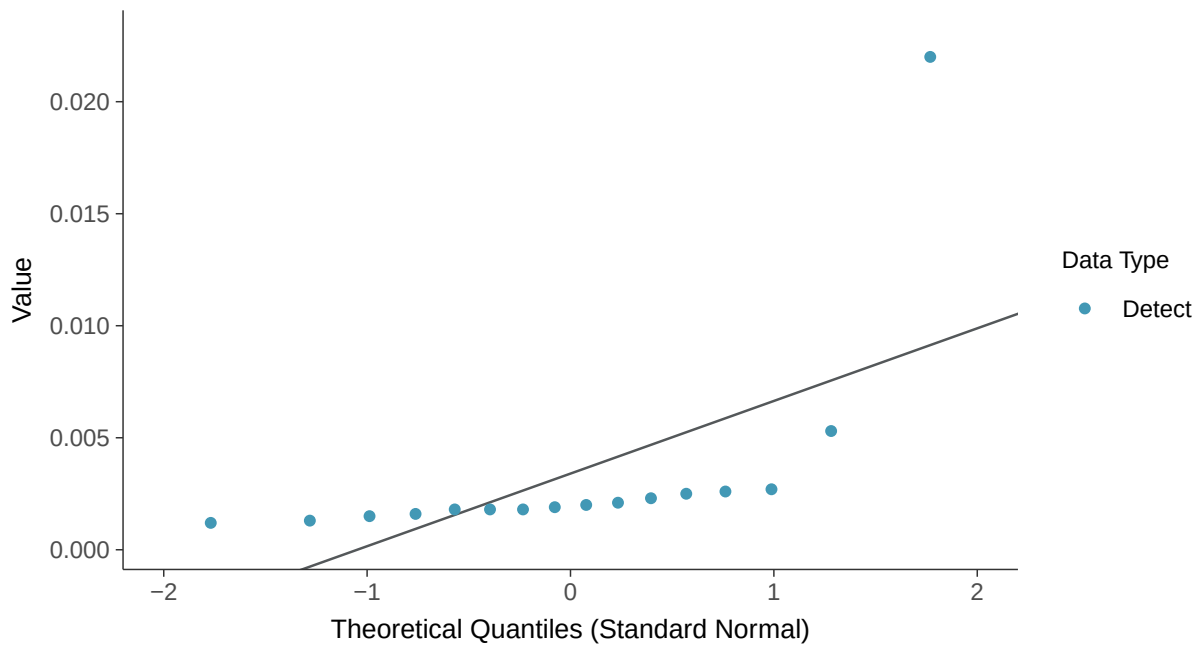


Boxplot by Season

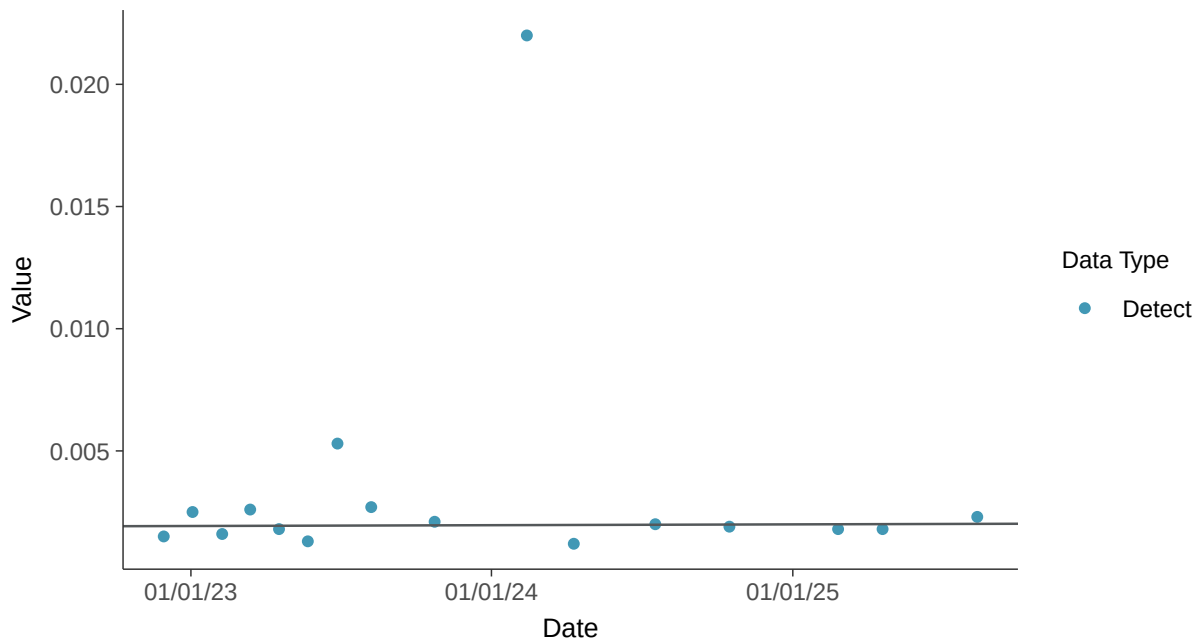
Nickel, MW-01R (mg/L)



Nickel, MW-01R (mg/L)

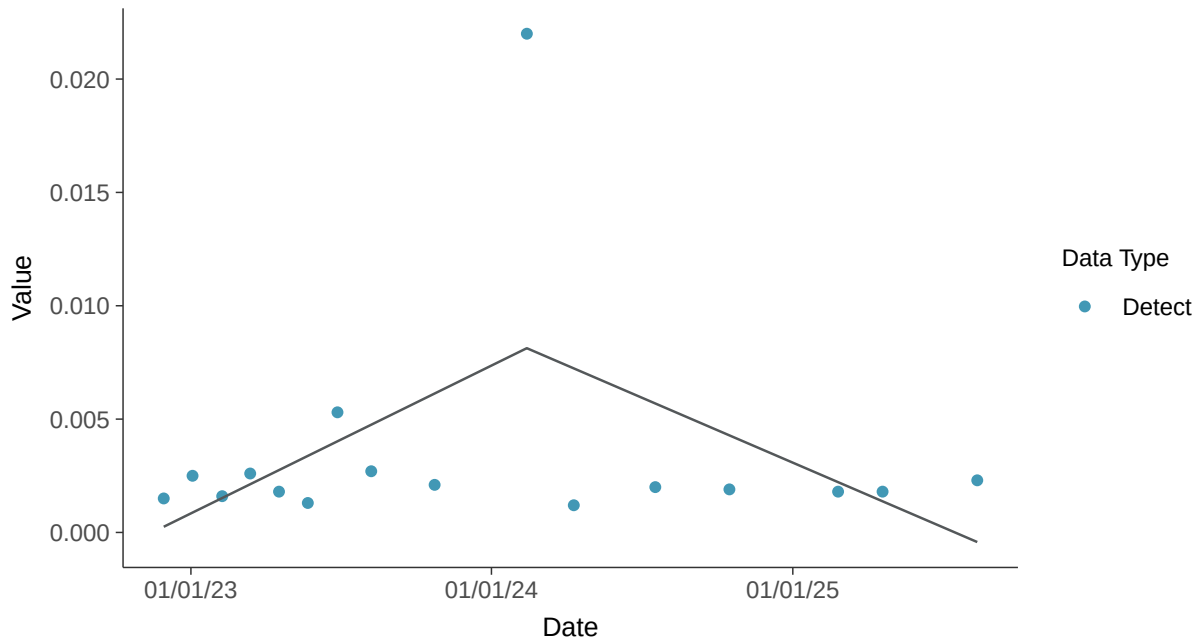


Nickel, MW-01R (mg/L)



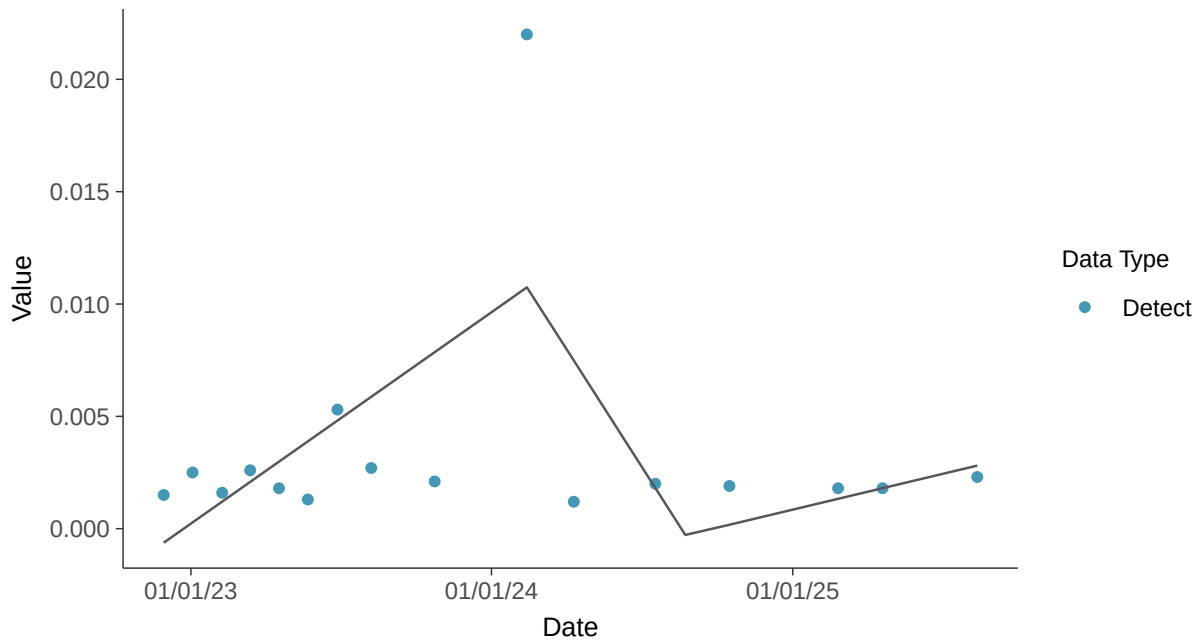
Trend Regression: Piecewise Linear-Linear

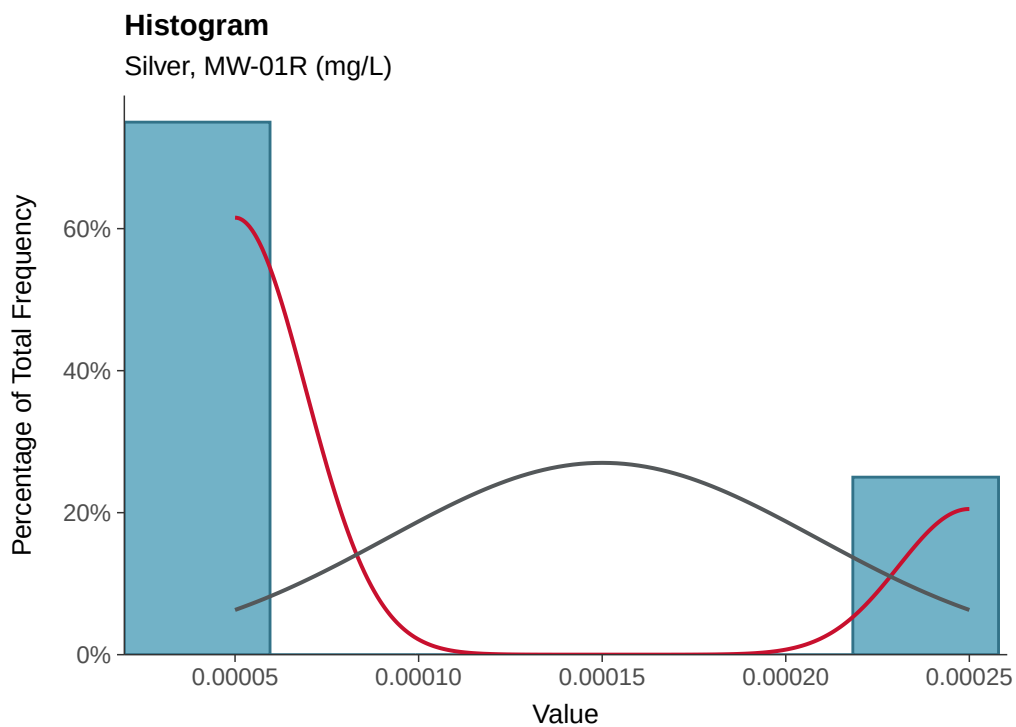
Nickel, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

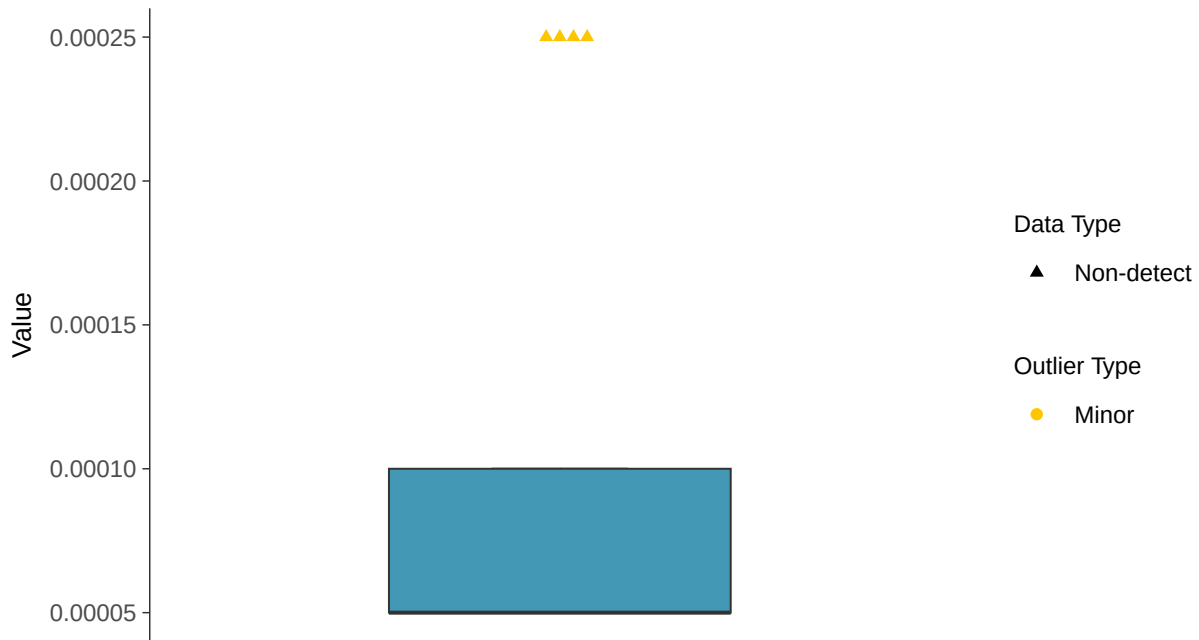
Nickel, MW-01R (mg/L)





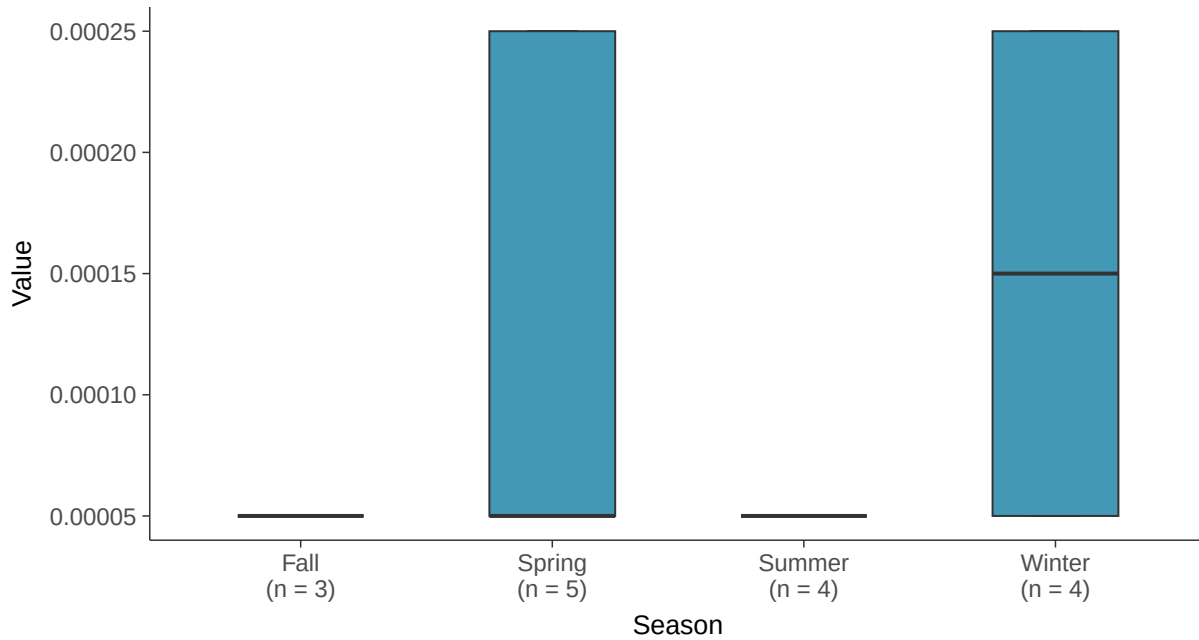
Boxplot

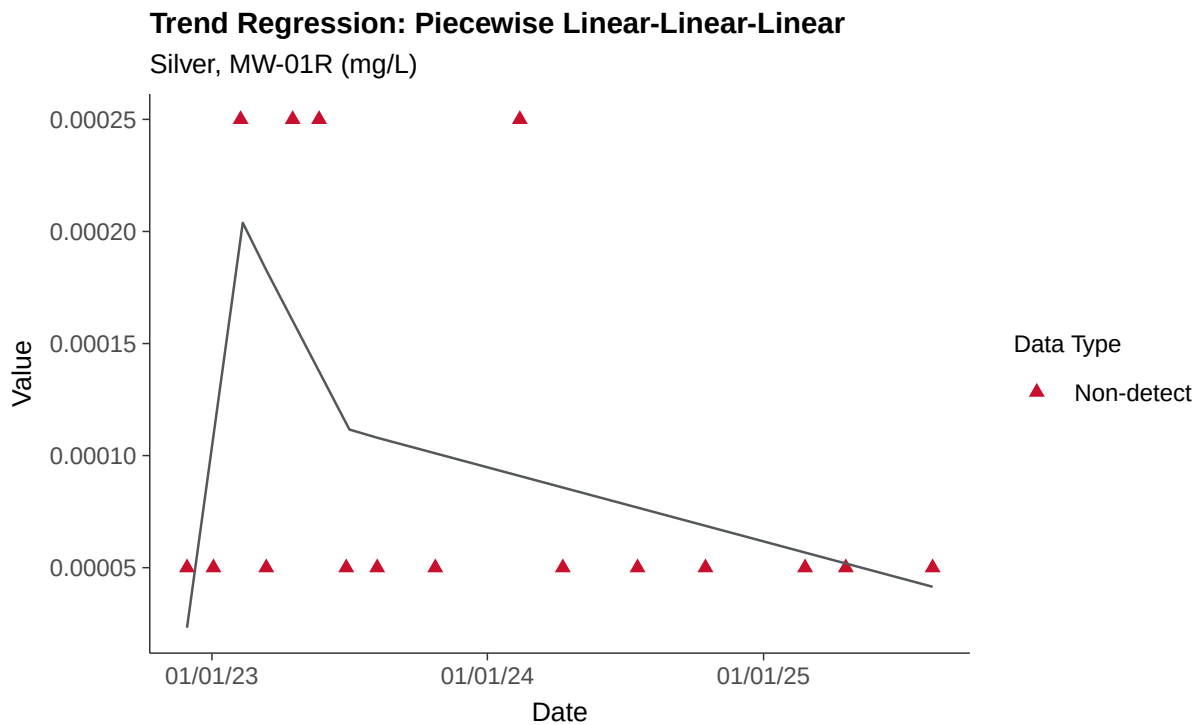
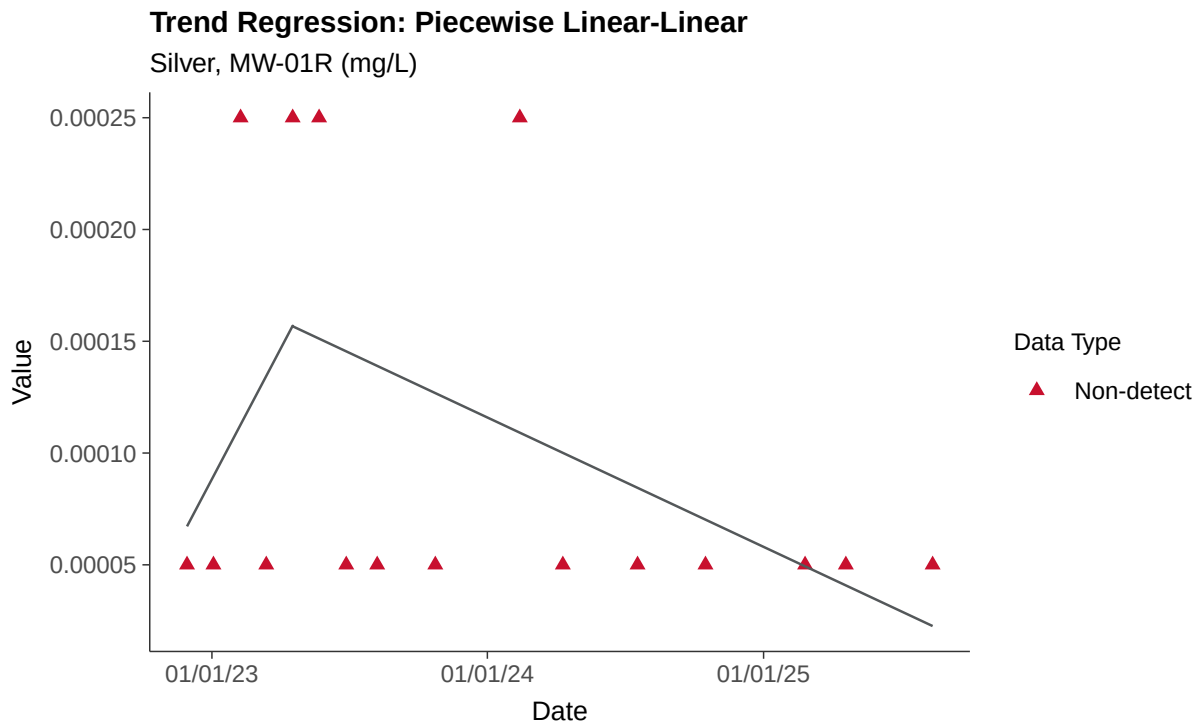
Silver, MW-01R (mg/L)



Boxplot by Season

Silver, MW-01R (mg/L)



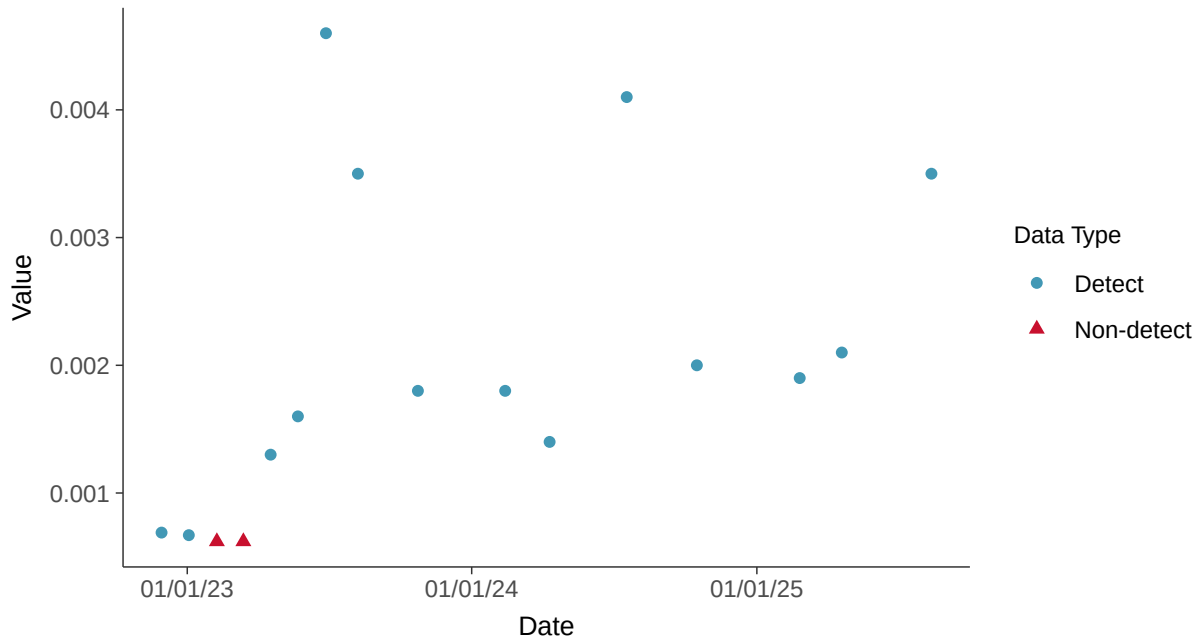


Part 115: Vanadium, MW-01R

ID: 11_2_5_128

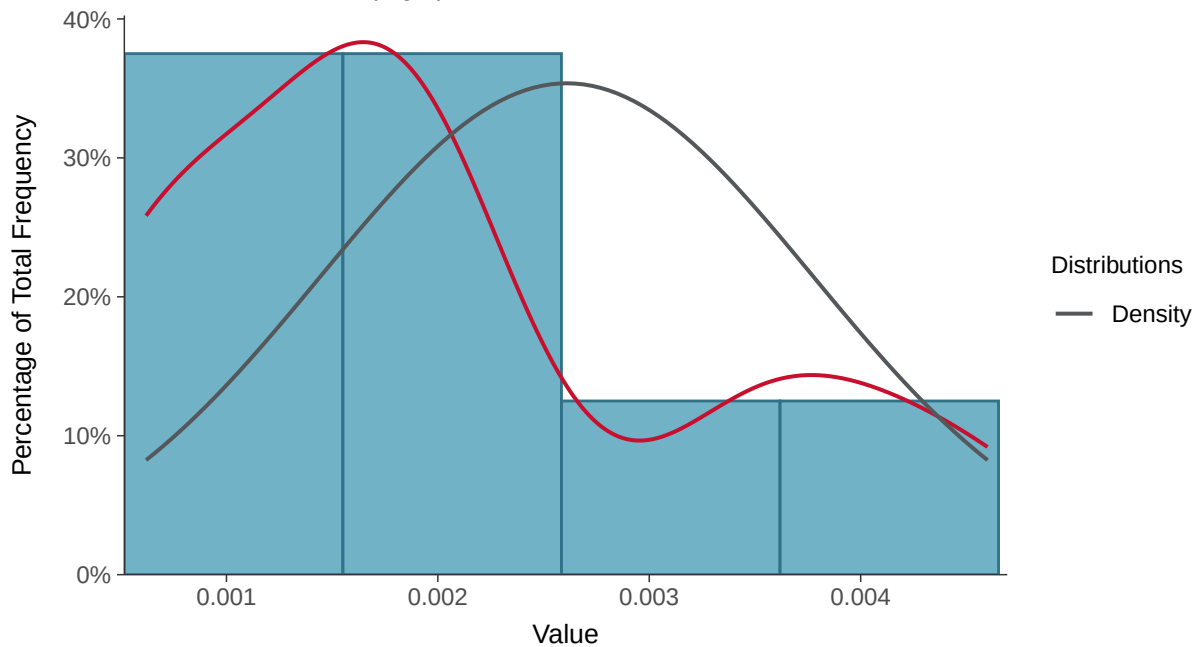
Scatter Plot

Vanadium, MW-01R (mg/L)



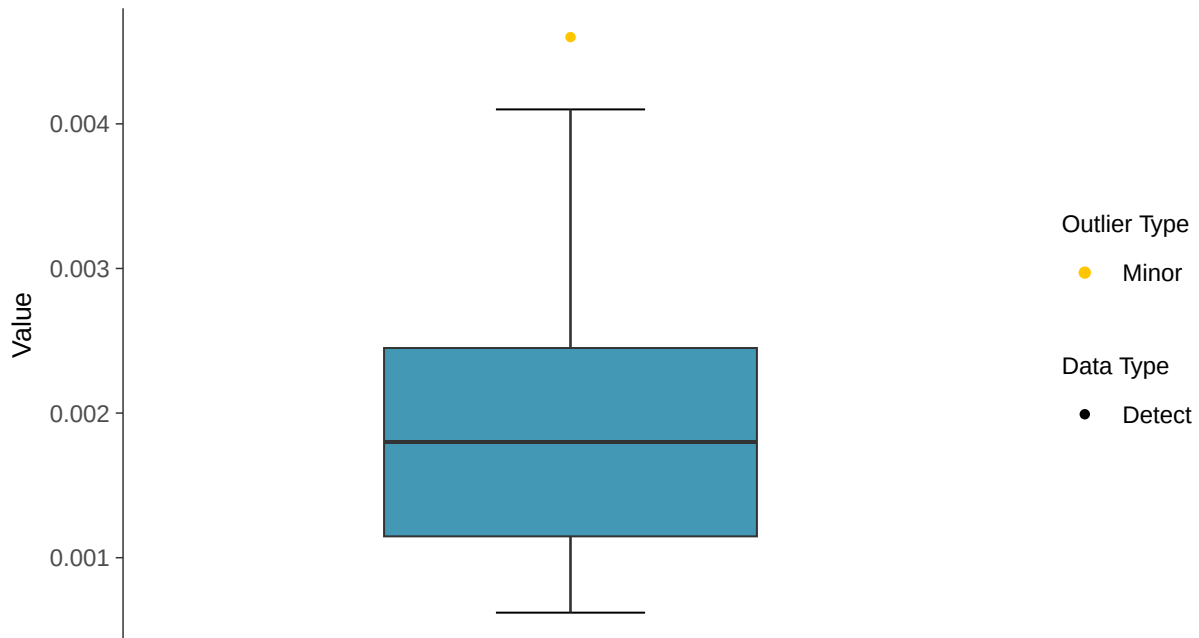
Histogram

Vanadium, MW-01R (mg/L)



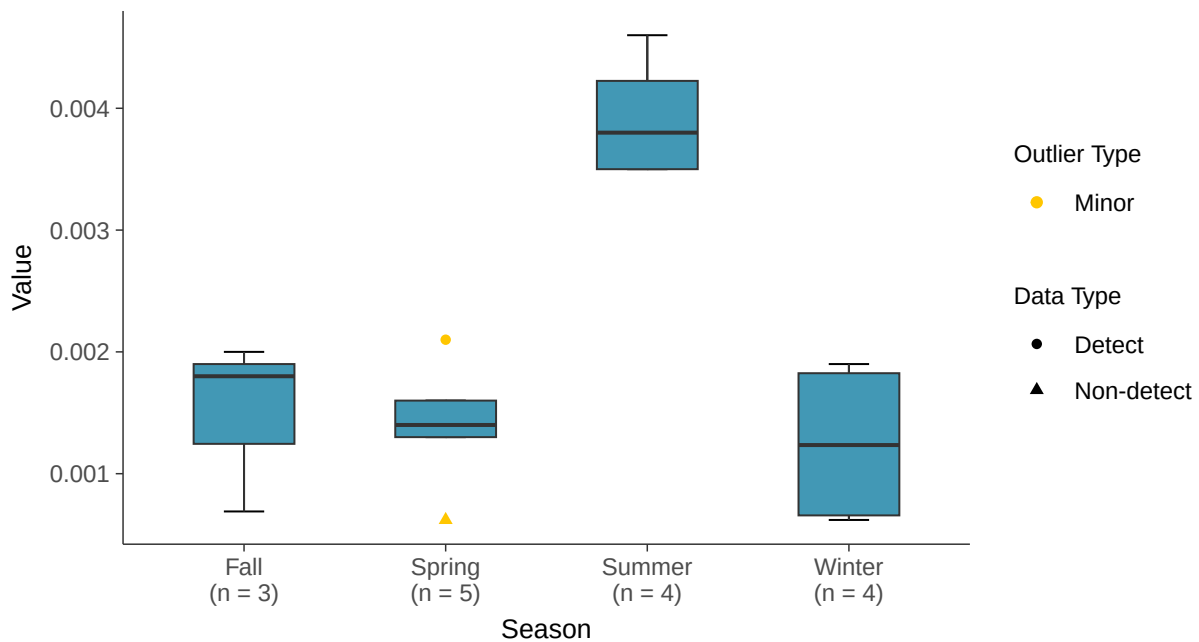
Boxplot

Vanadium, MW-01R (mg/L)



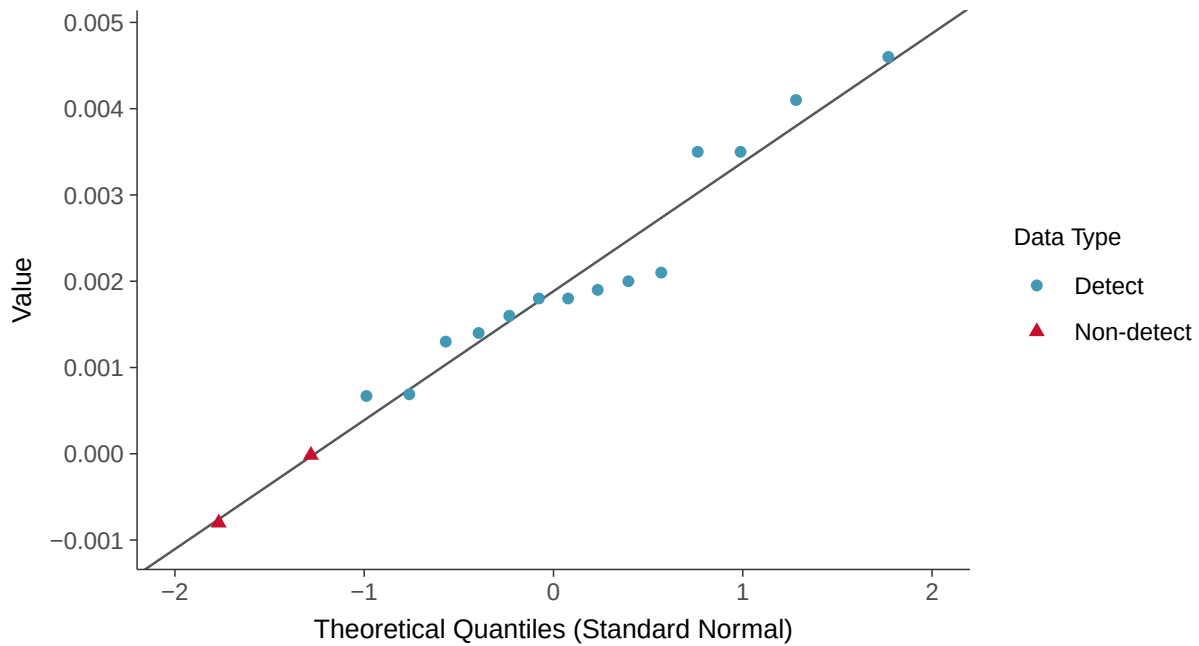
Boxplot by Season

Vanadium, MW-01R (mg/L)



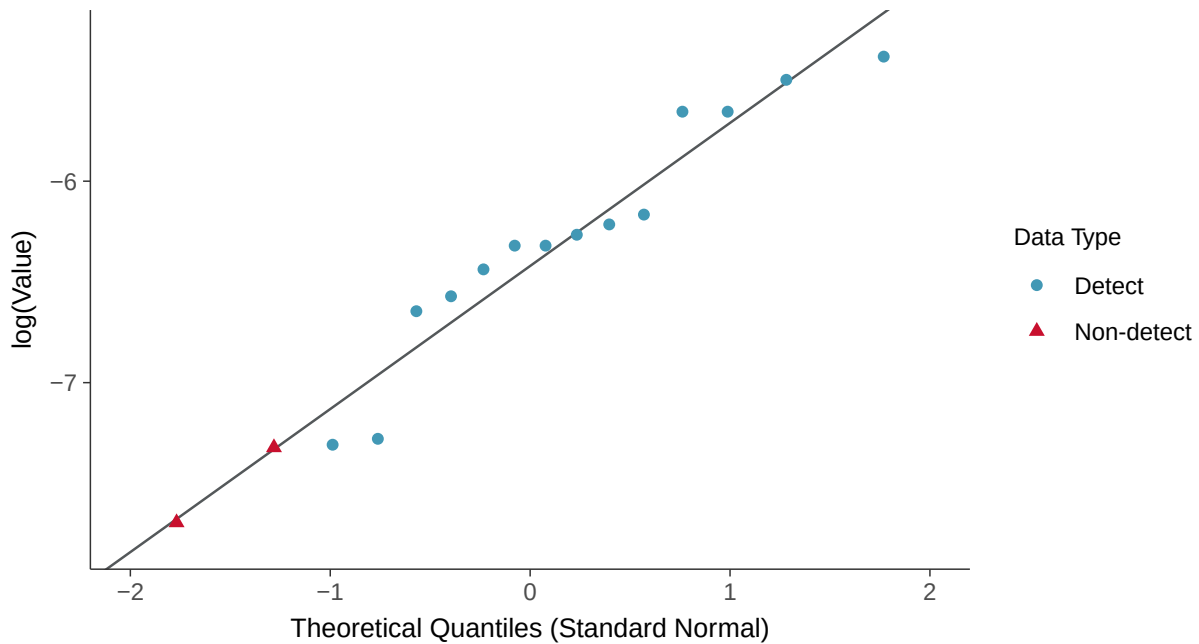
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



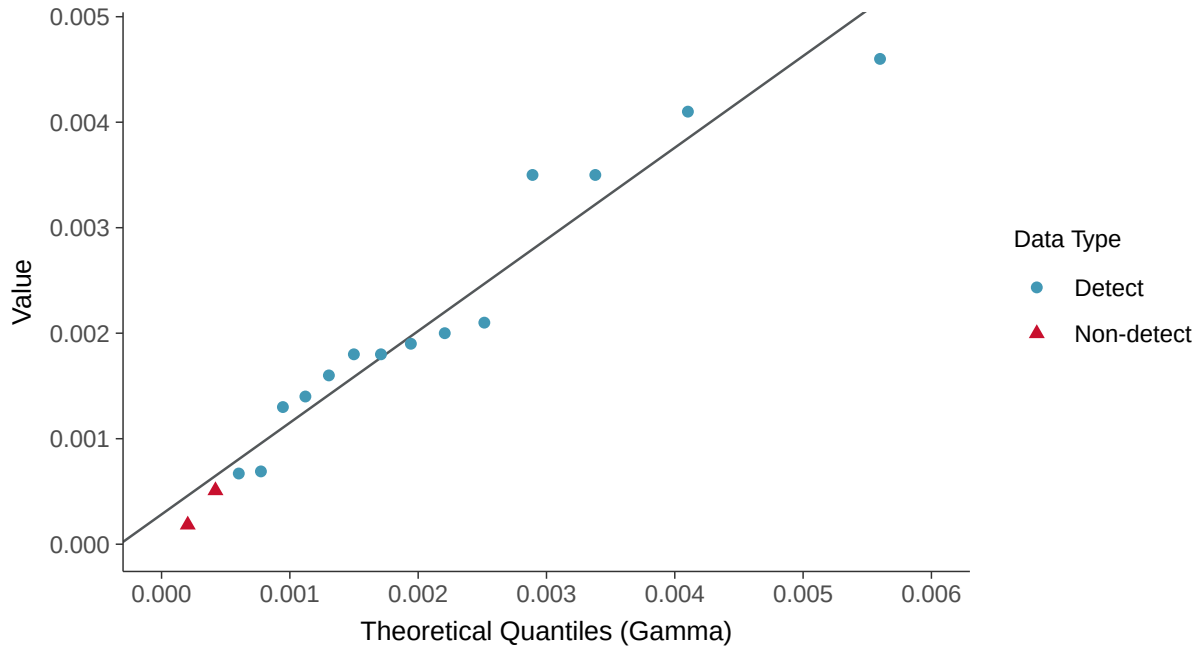
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



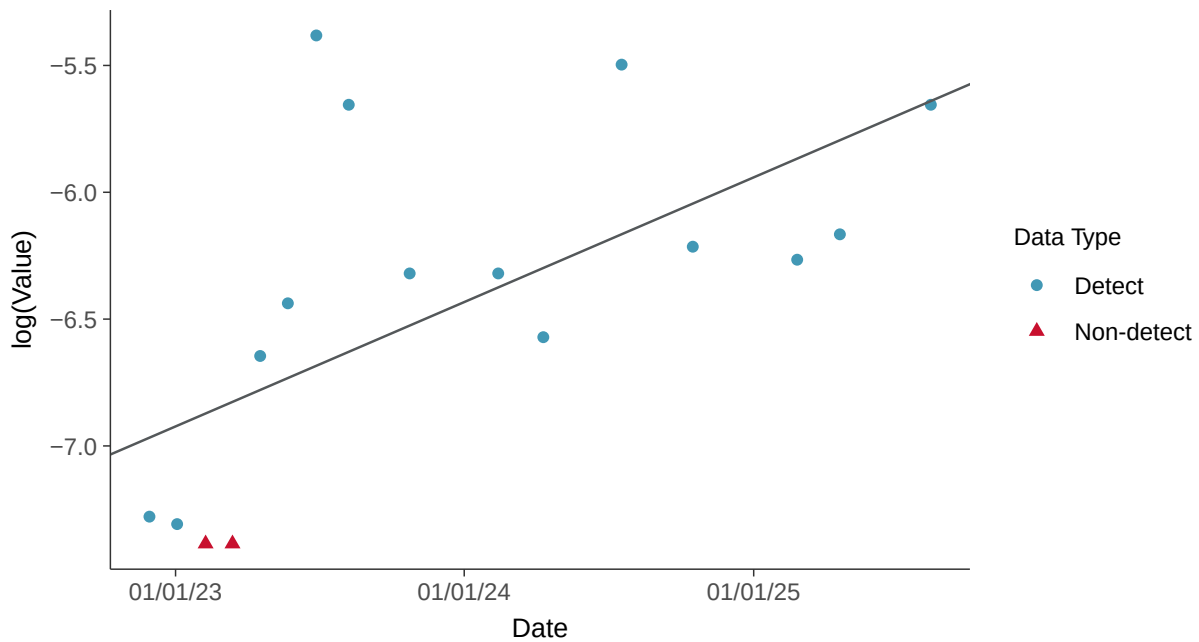
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



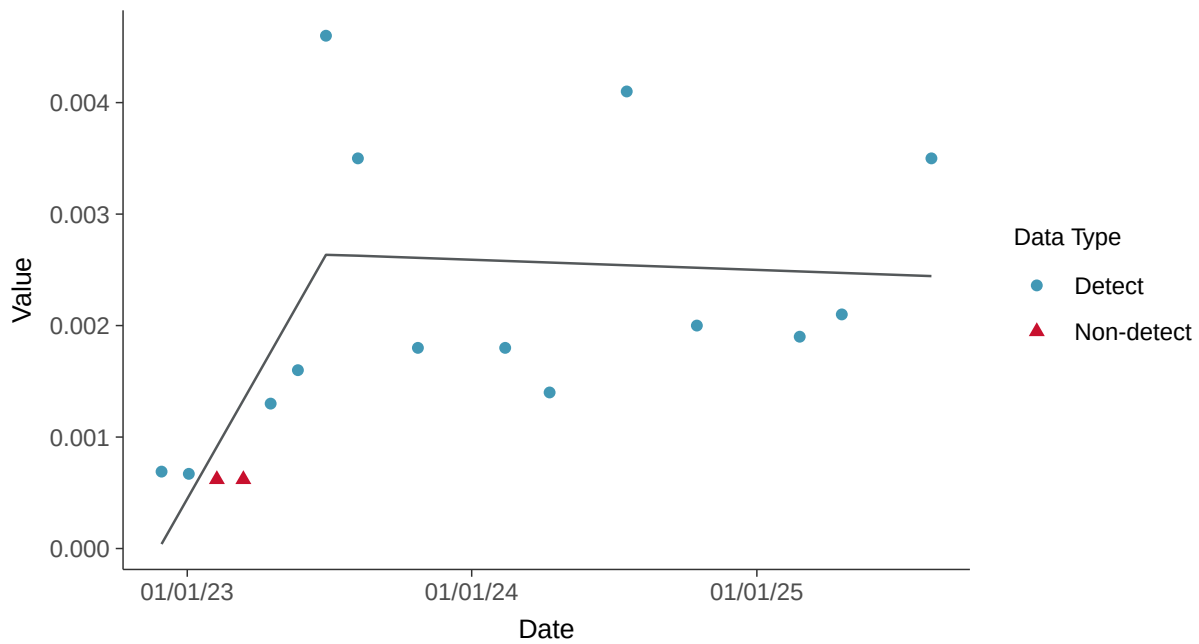
Trend Regression: Lognormal MLE

Vanadium, MW-01R (mg/L)



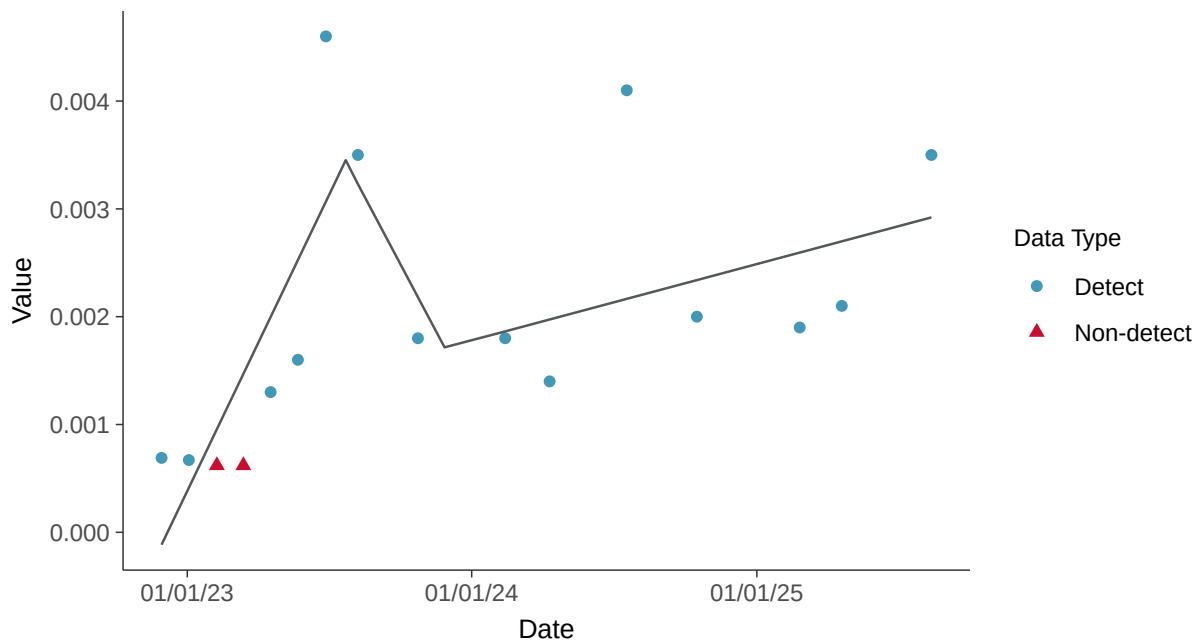
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-01R (mg/L)



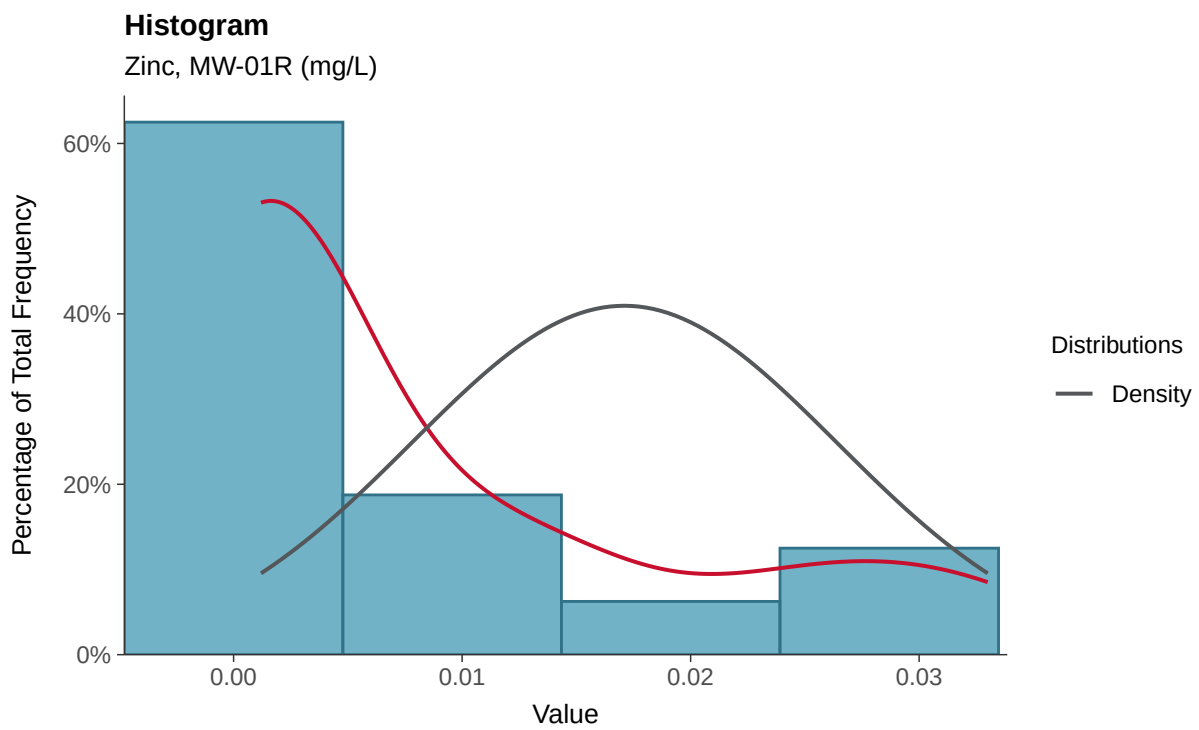
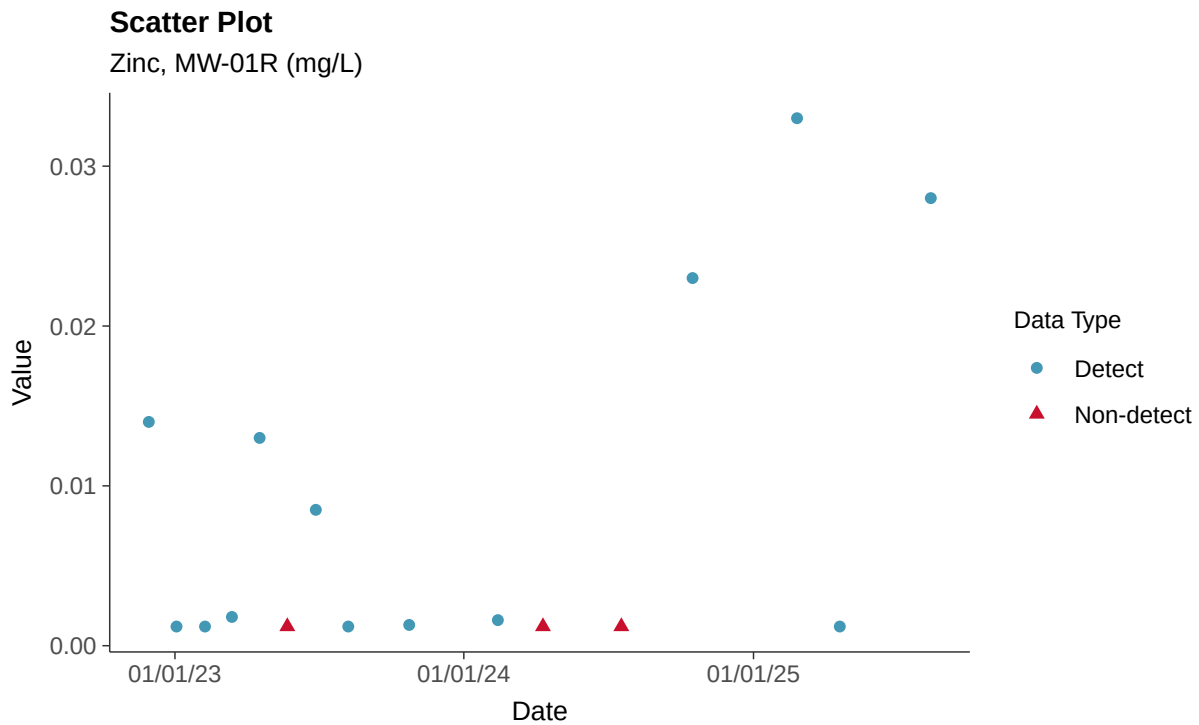
Trend Regression: Piecewise Linear-Linear-Linear

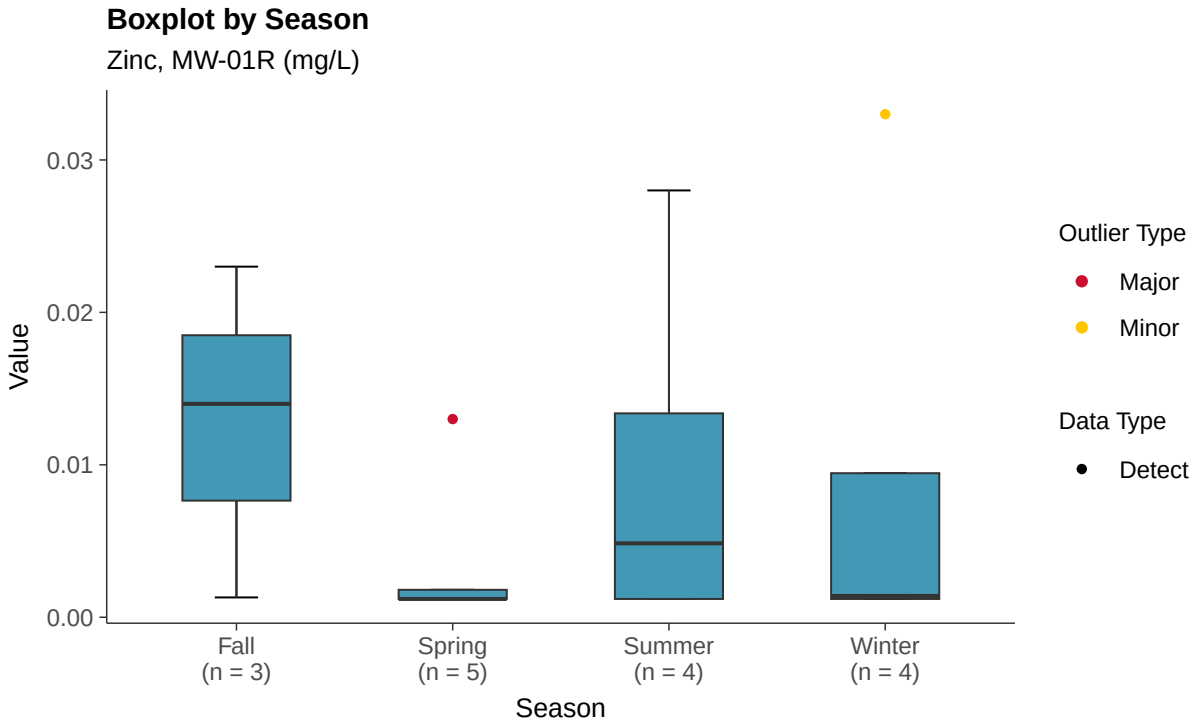
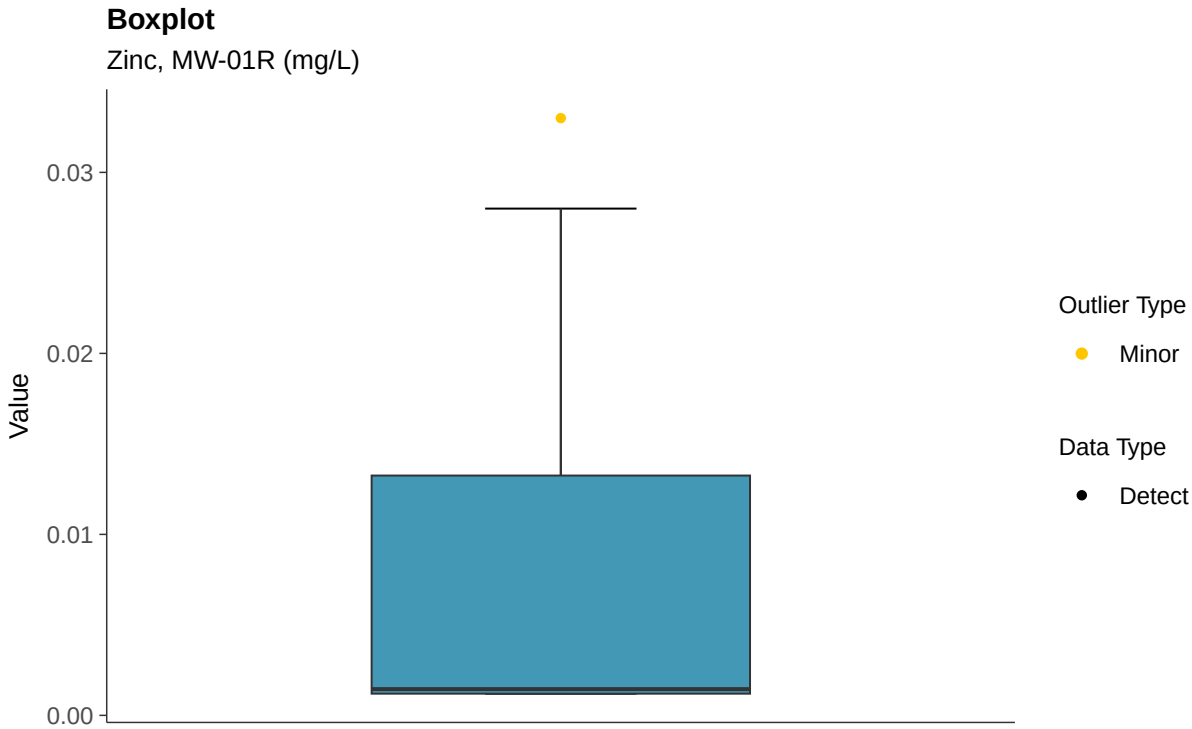
Vanadium, MW-01R (mg/L)



Part 115: Zinc, MW-01R

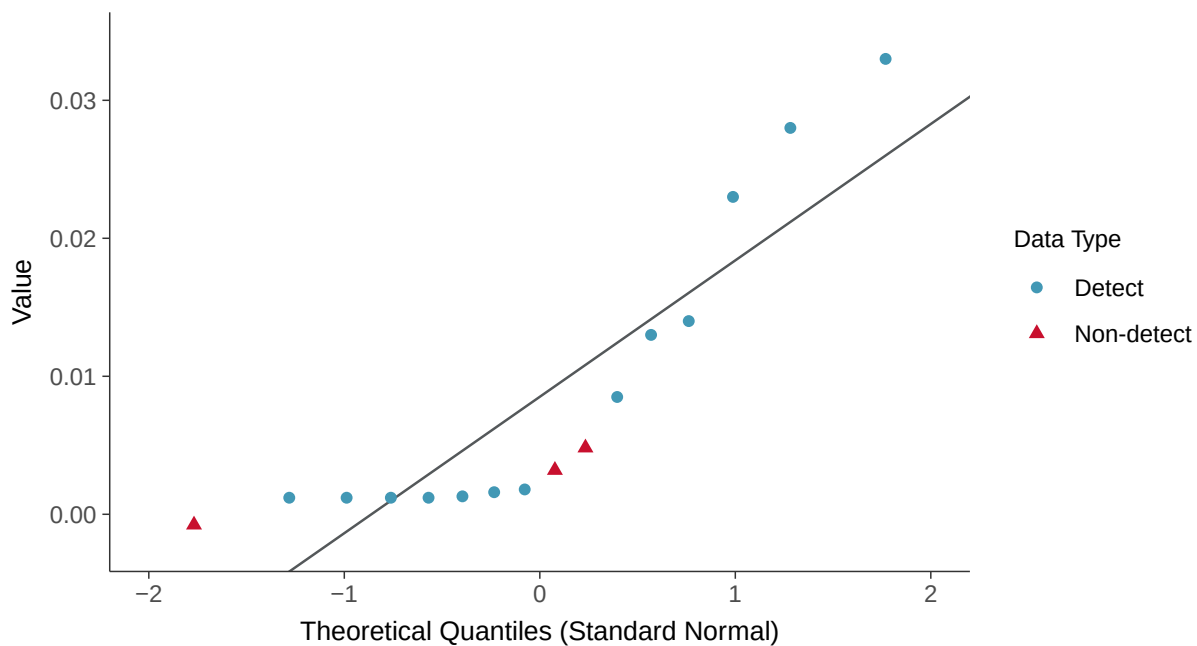
ID: 11_2_5_129





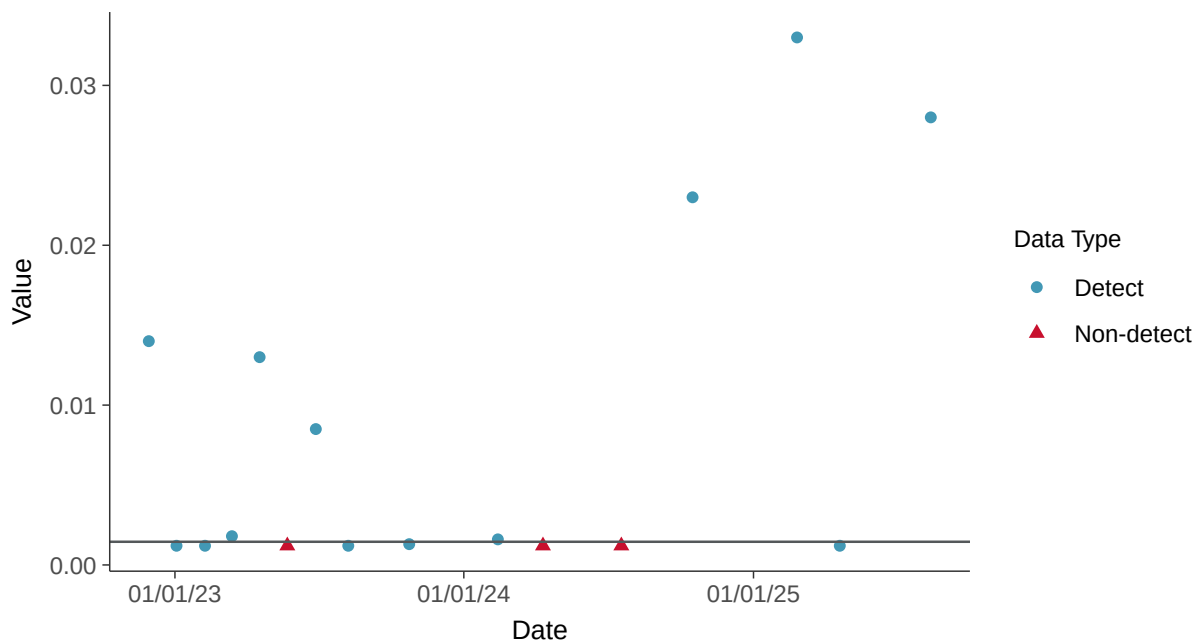
Normal Q-Q plot using ROS Imputed Estimates

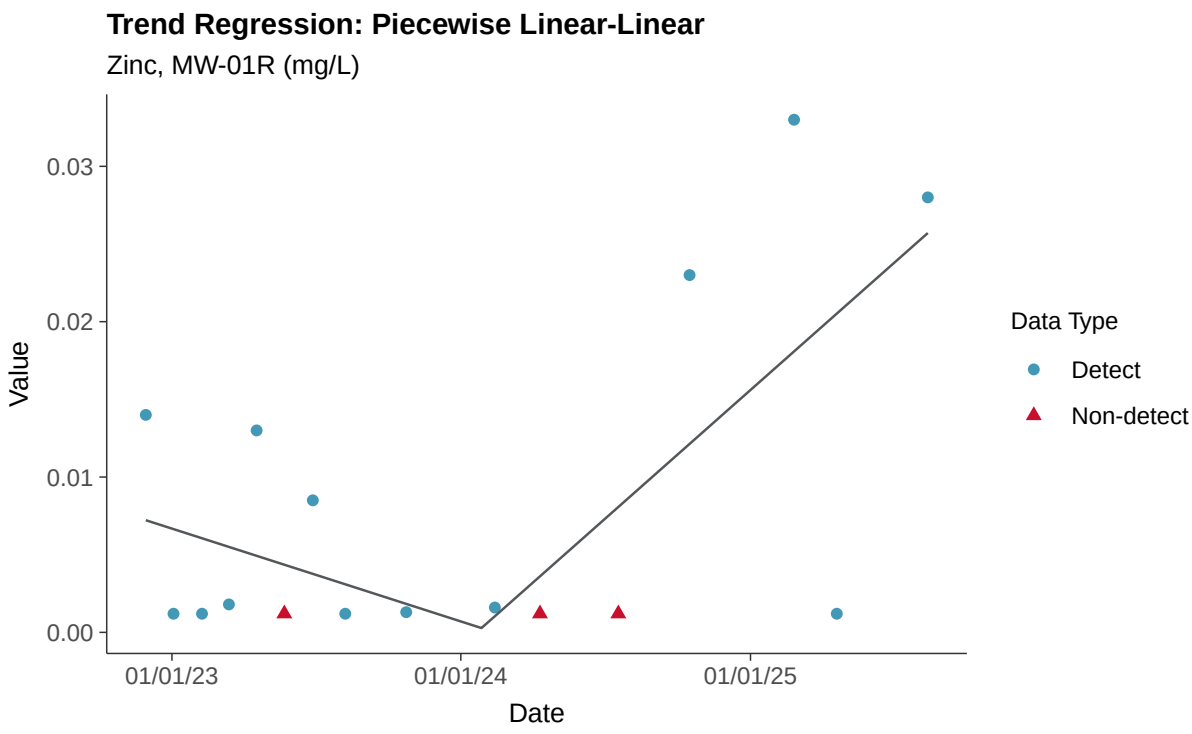
Zinc, MW-01R (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-01R (mg/L)



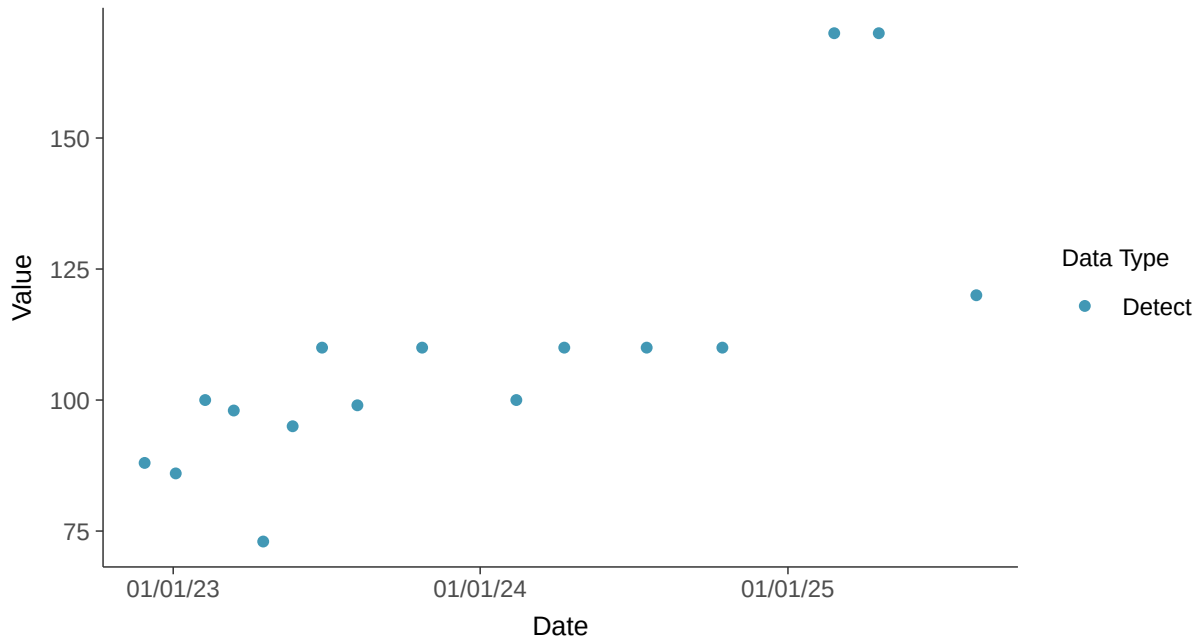


Appendix III: Boron, MW-02

ID: 12_2_3_105

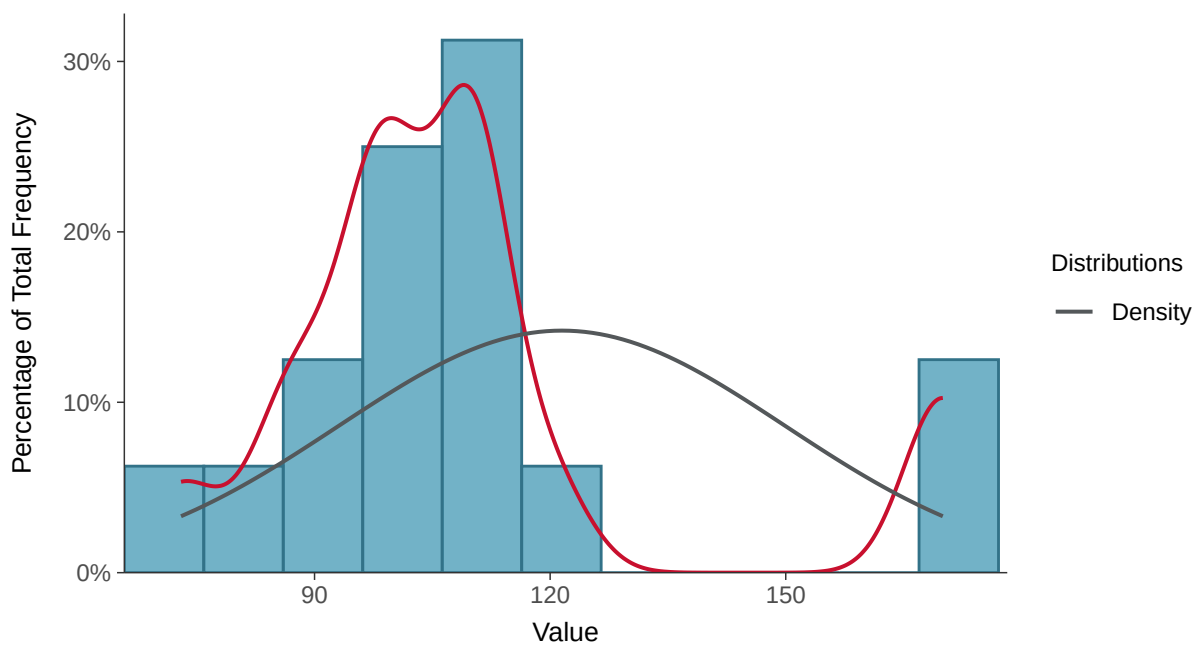
Scatter Plot

Boron, MW-02 (mg/L)



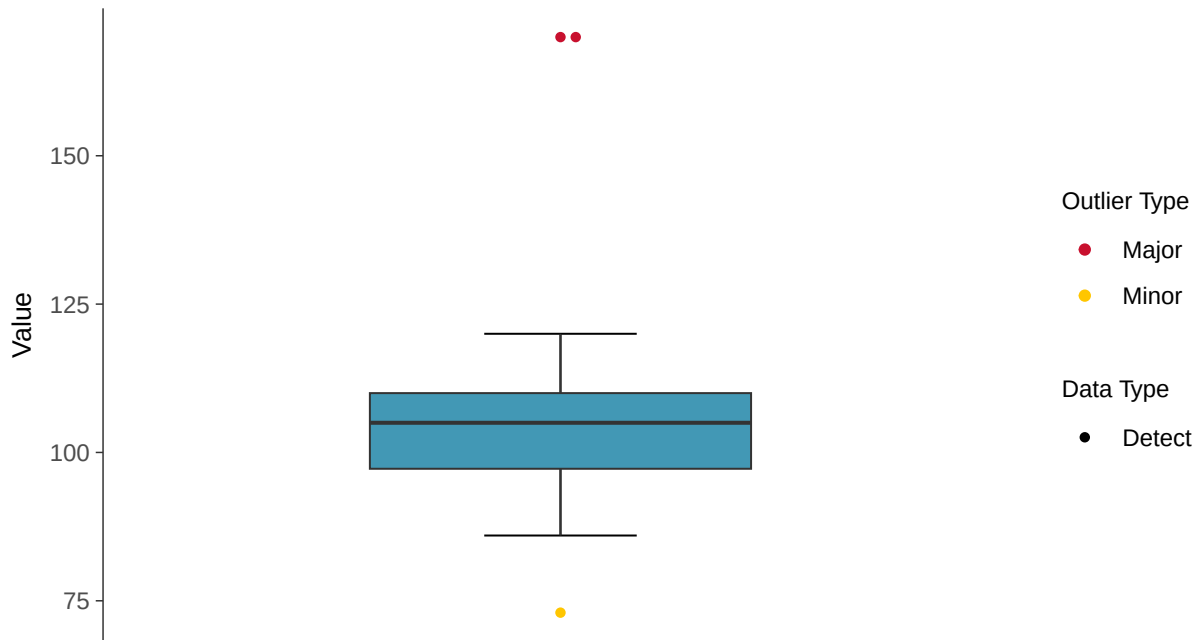
Histogram

Boron, MW-02 (mg/L)



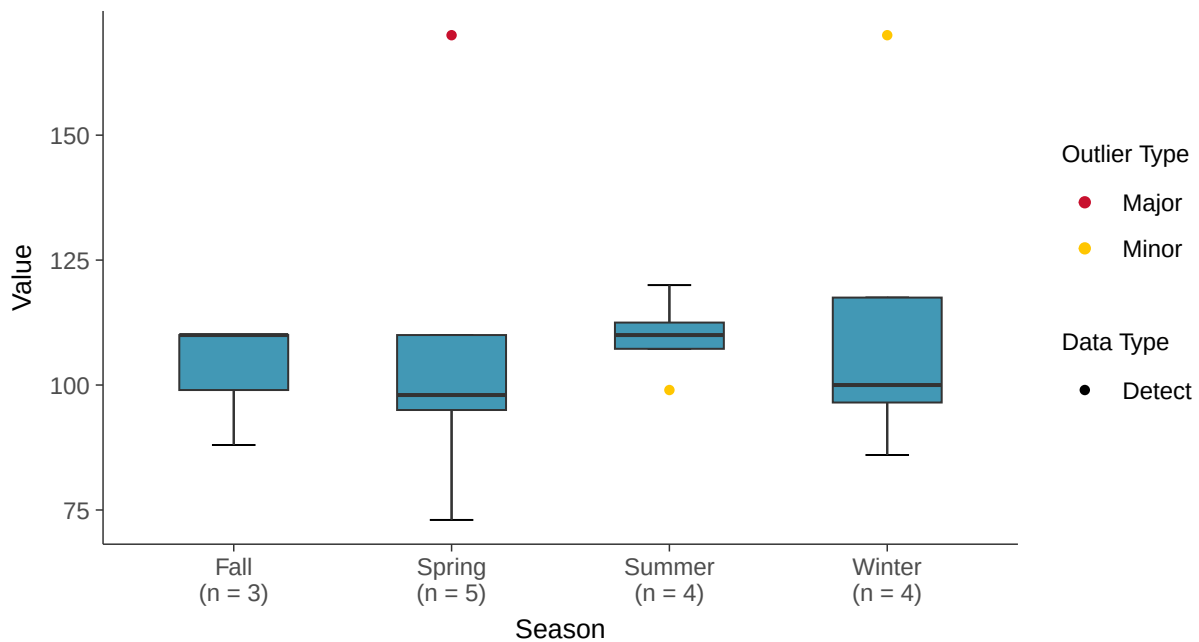
Boxplot

Boron, MW-02 (mg/L)



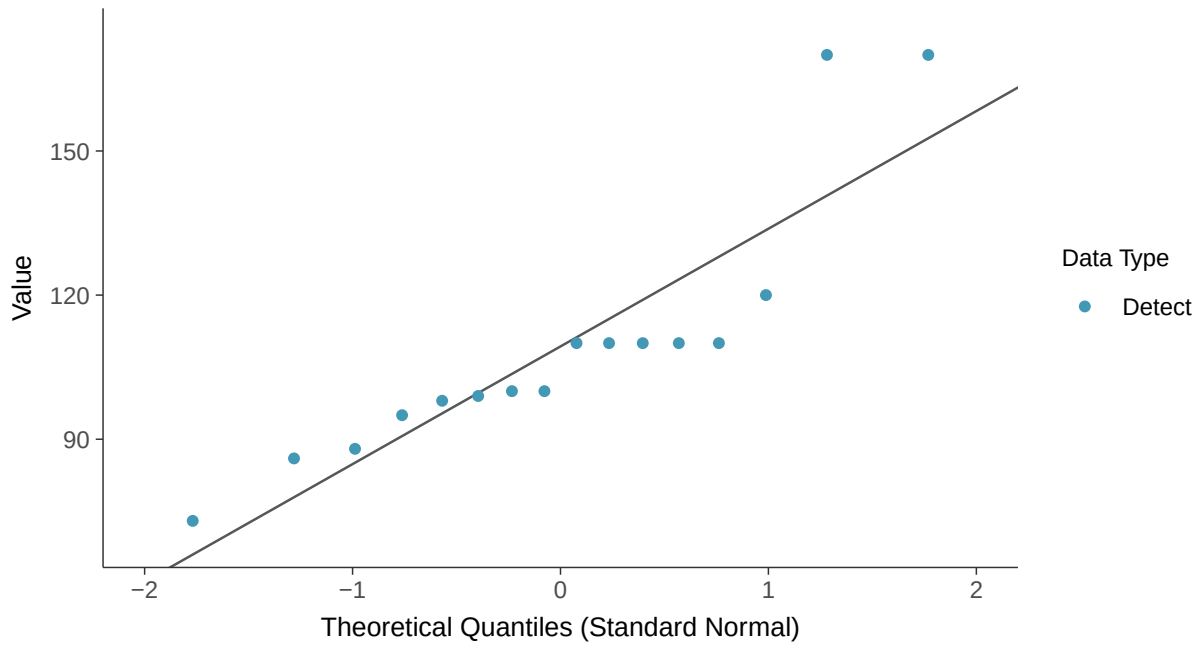
Boxplot by Season

Boron, MW-02 (mg/L)



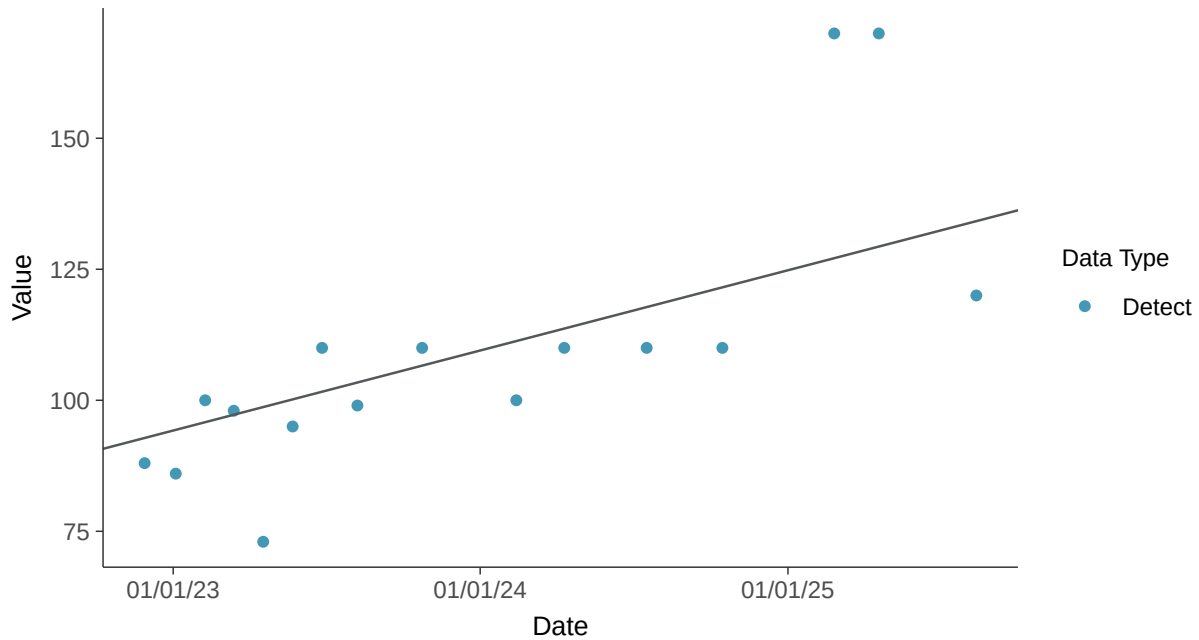
Normal Q-Q plot

Boron, MW-02 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

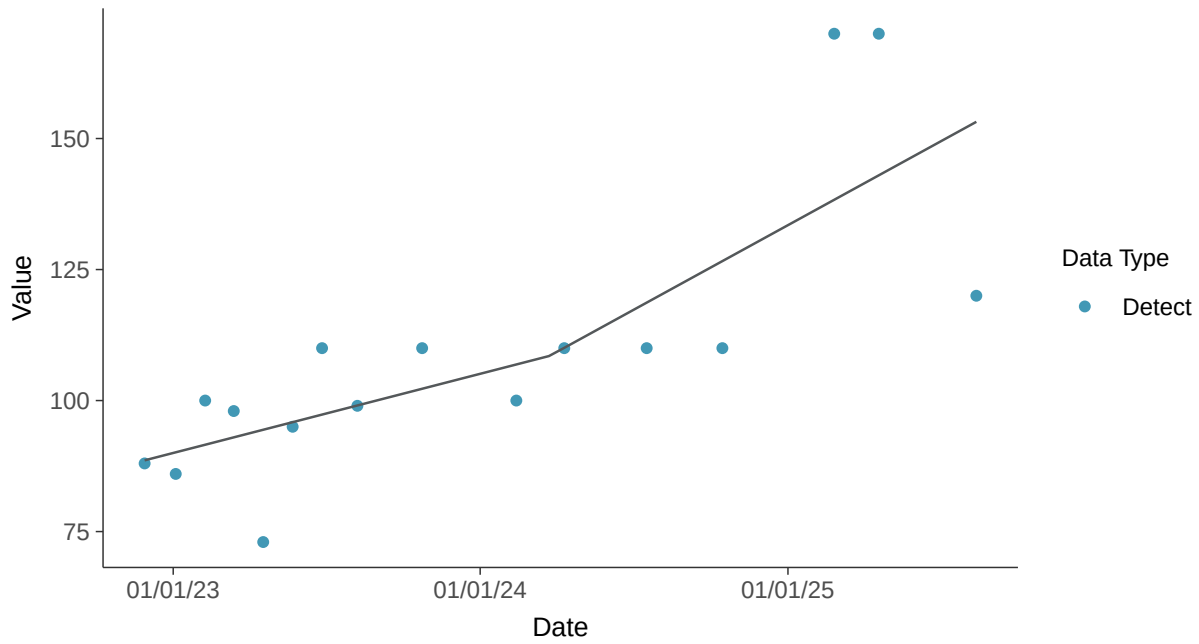
Boron, MW-02 (mg/L)





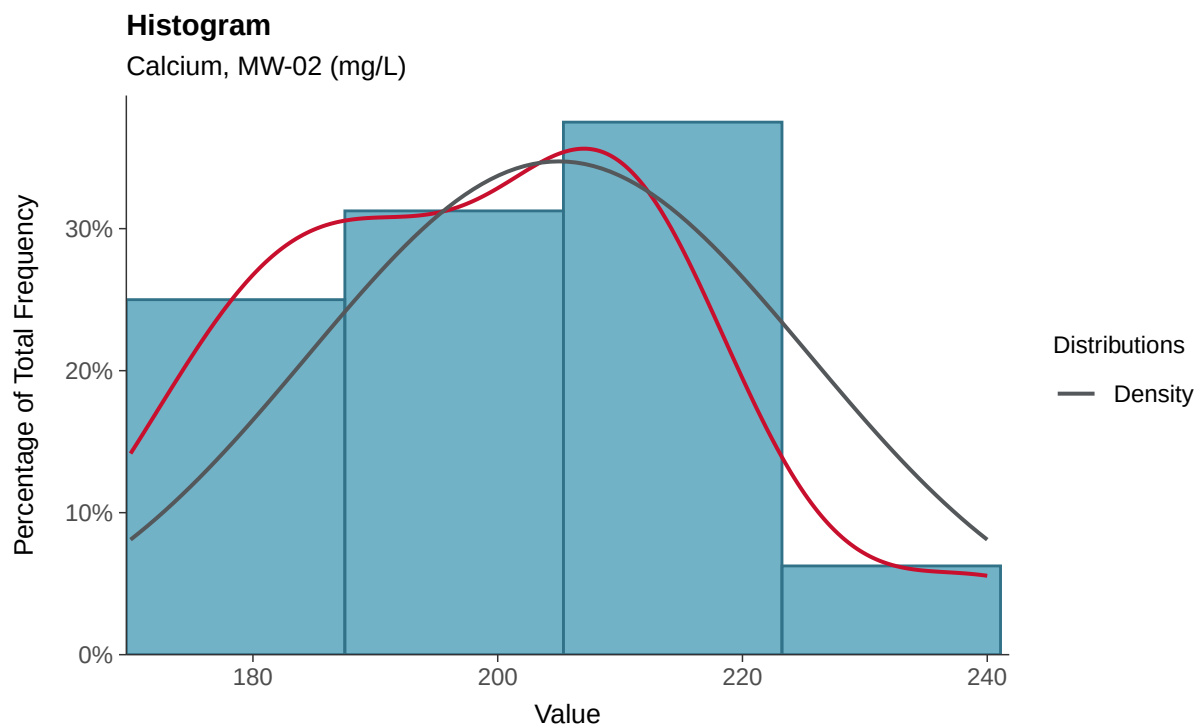
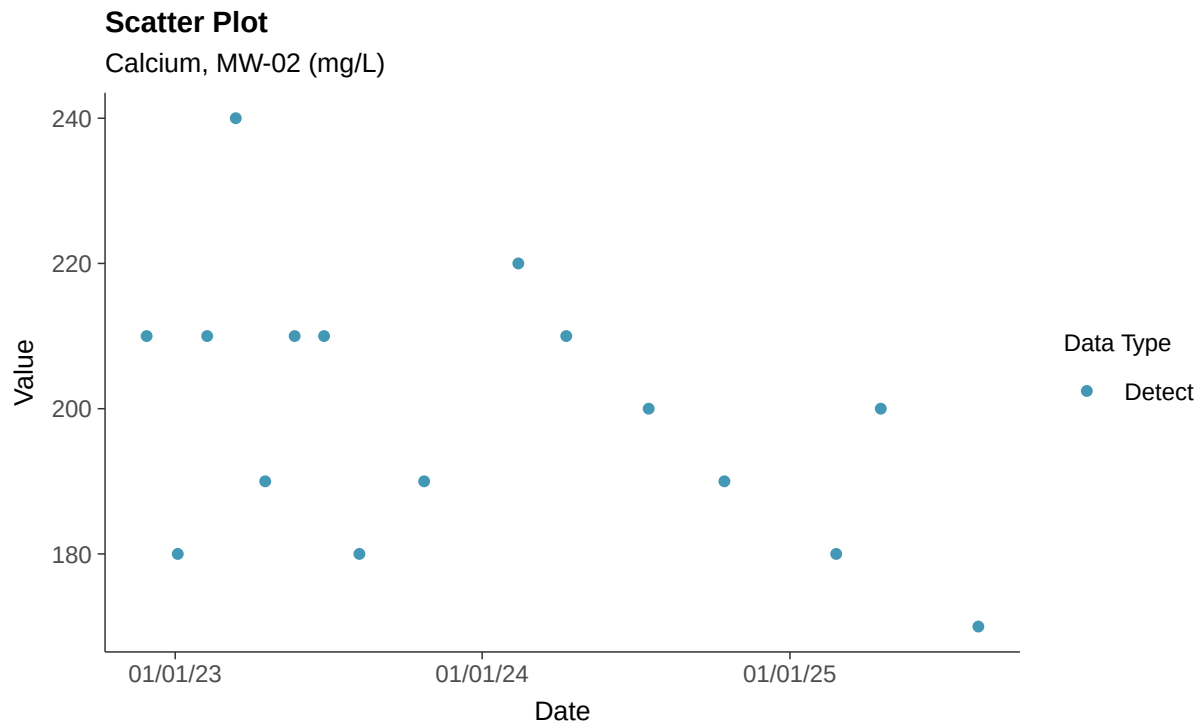
Trend Regression: Piecewise Linear-Linear

Boron, MW-02 (mg/L)



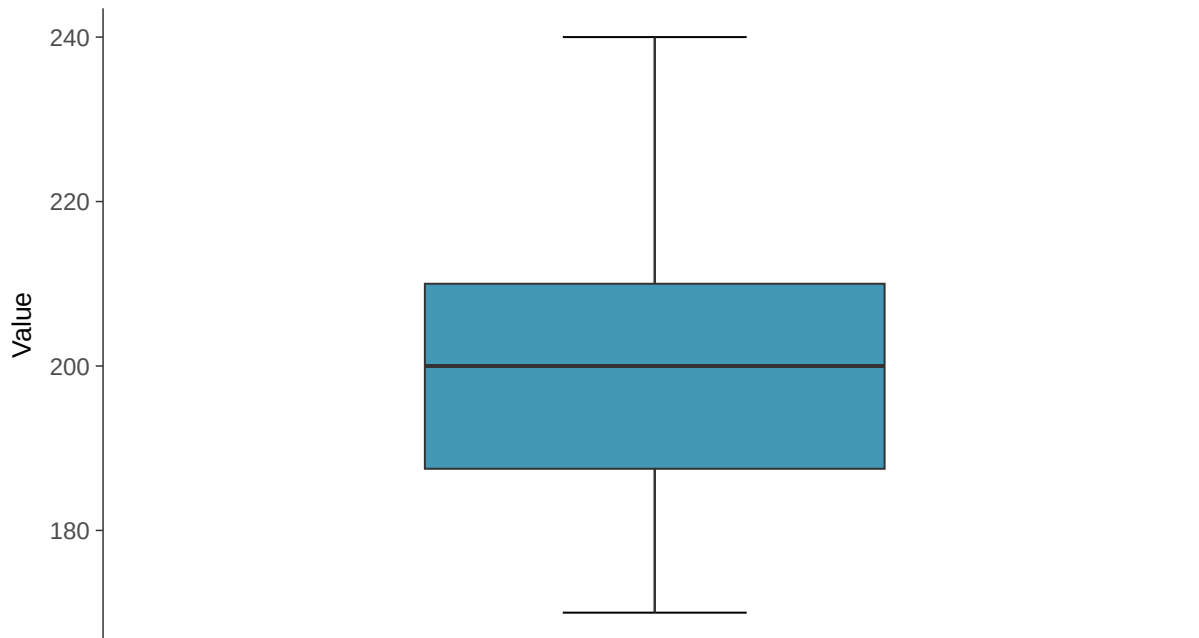
Appendix III: Calcium, MW-02

ID: 12_2_3_107



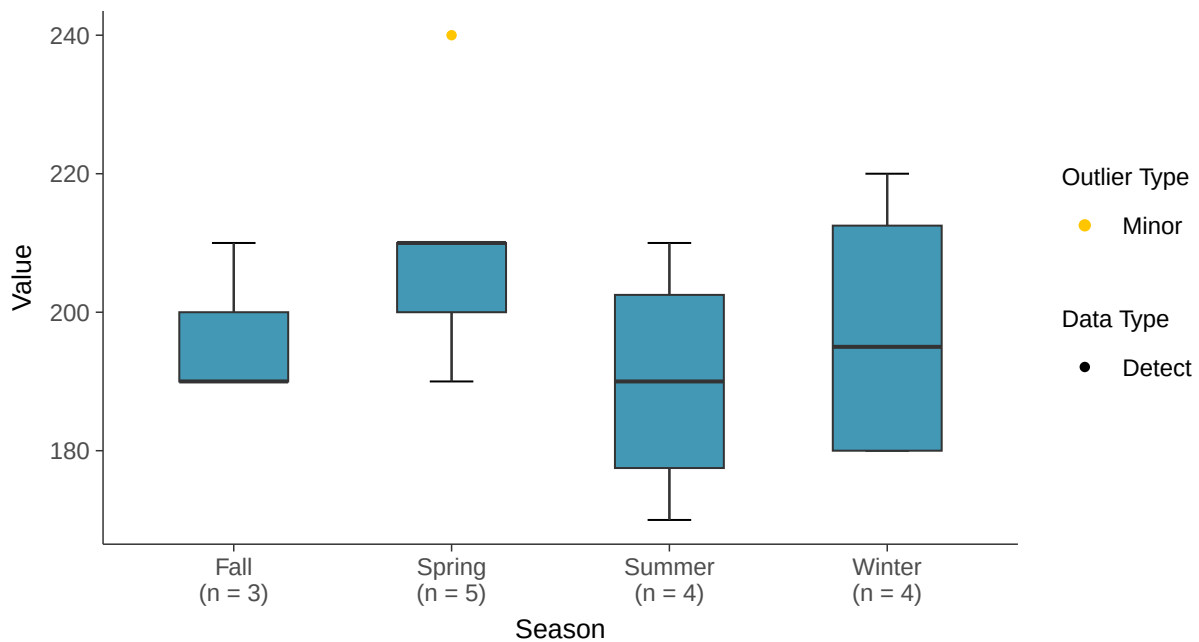
Boxplot

Calcium, MW-02 (mg/L)



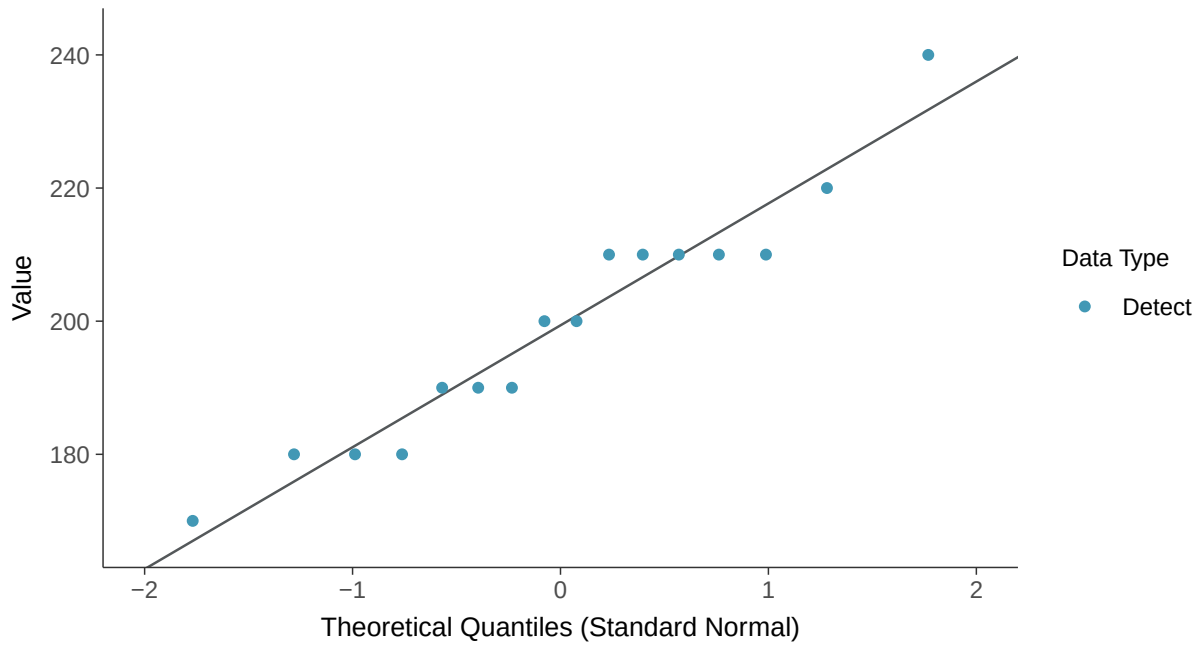
Boxplot by Season

Calcium, MW-02 (mg/L)



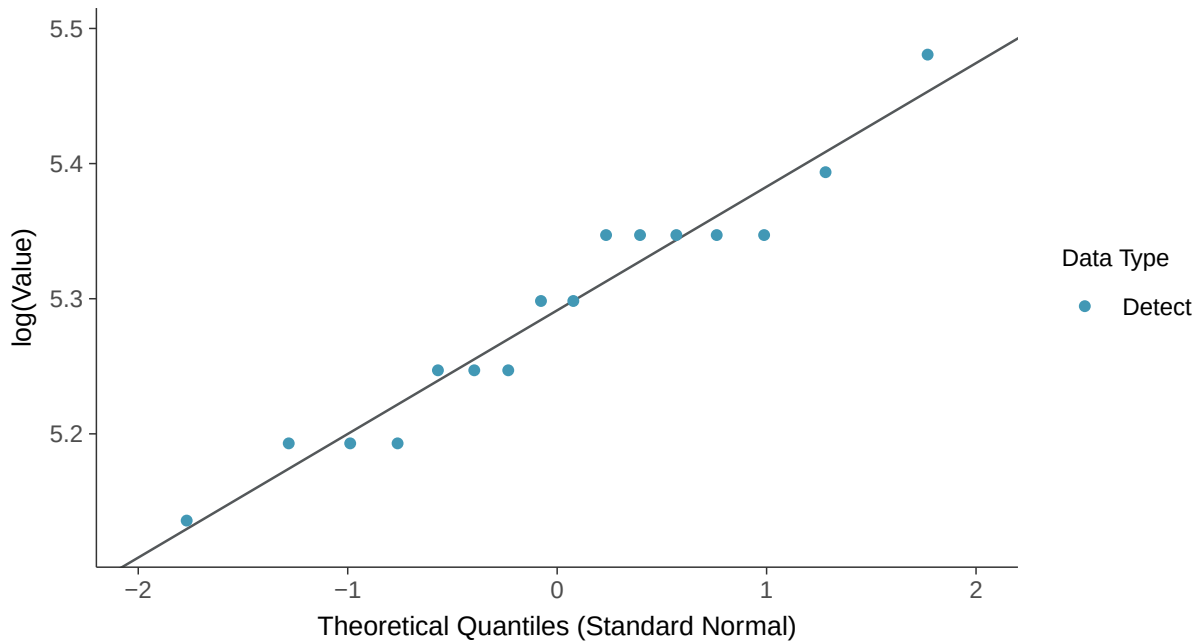
Normal Q-Q plot

Calcium, MW-02 (mg/L)



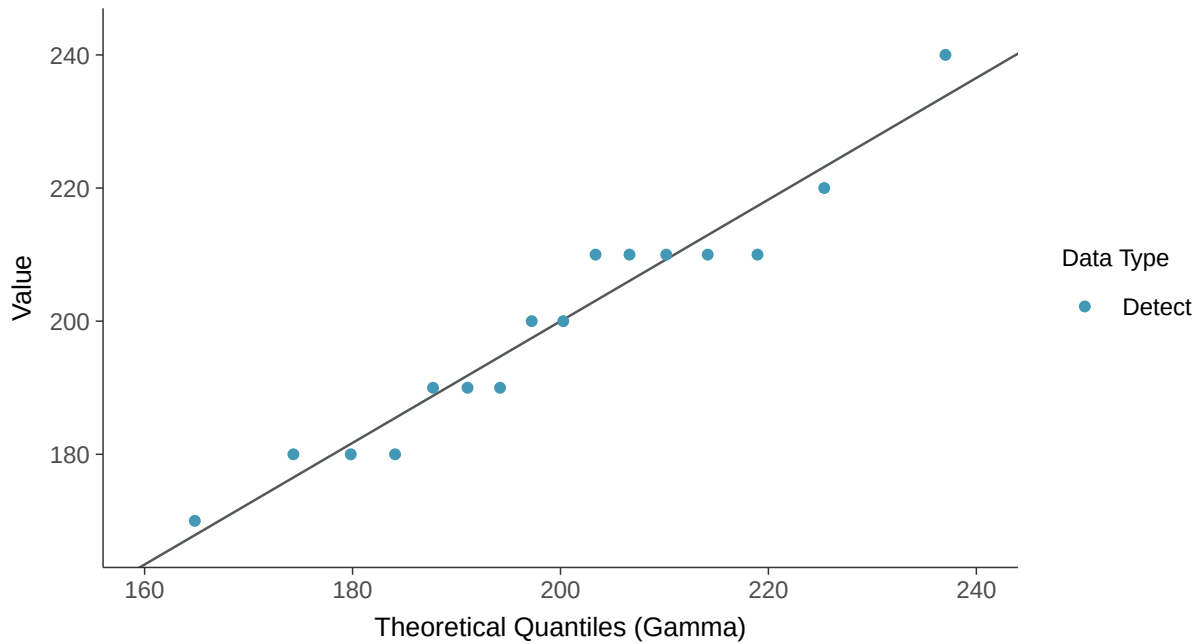
Lognormal Q-Q plot

Calcium, MW-02 (mg/L)



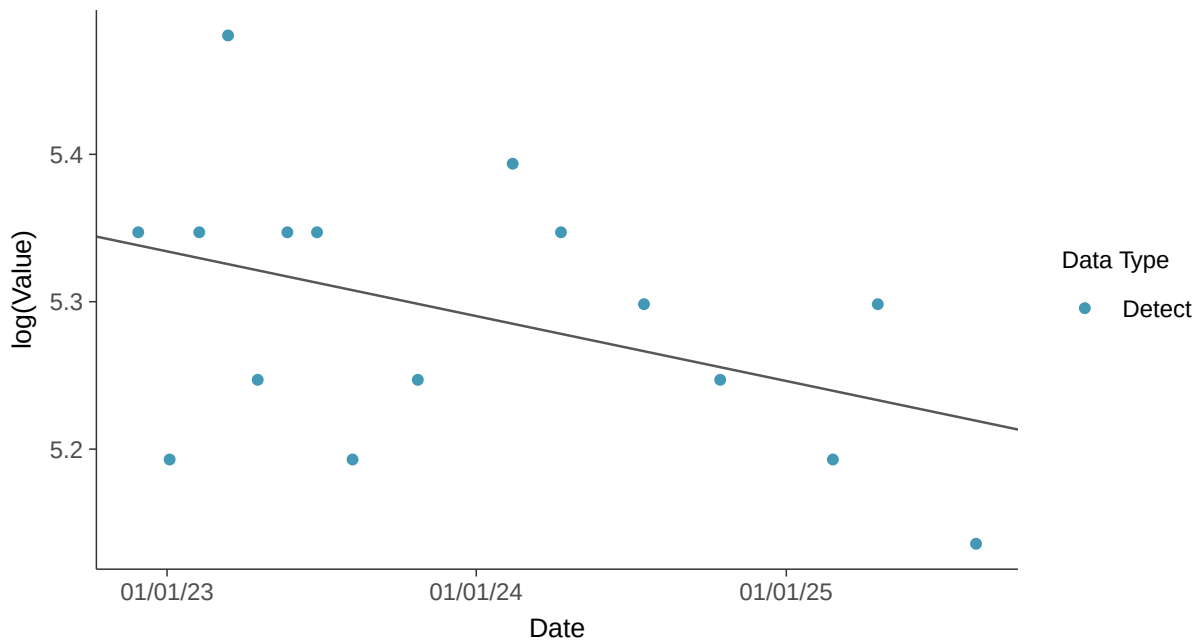
Gamma Q-Q plot

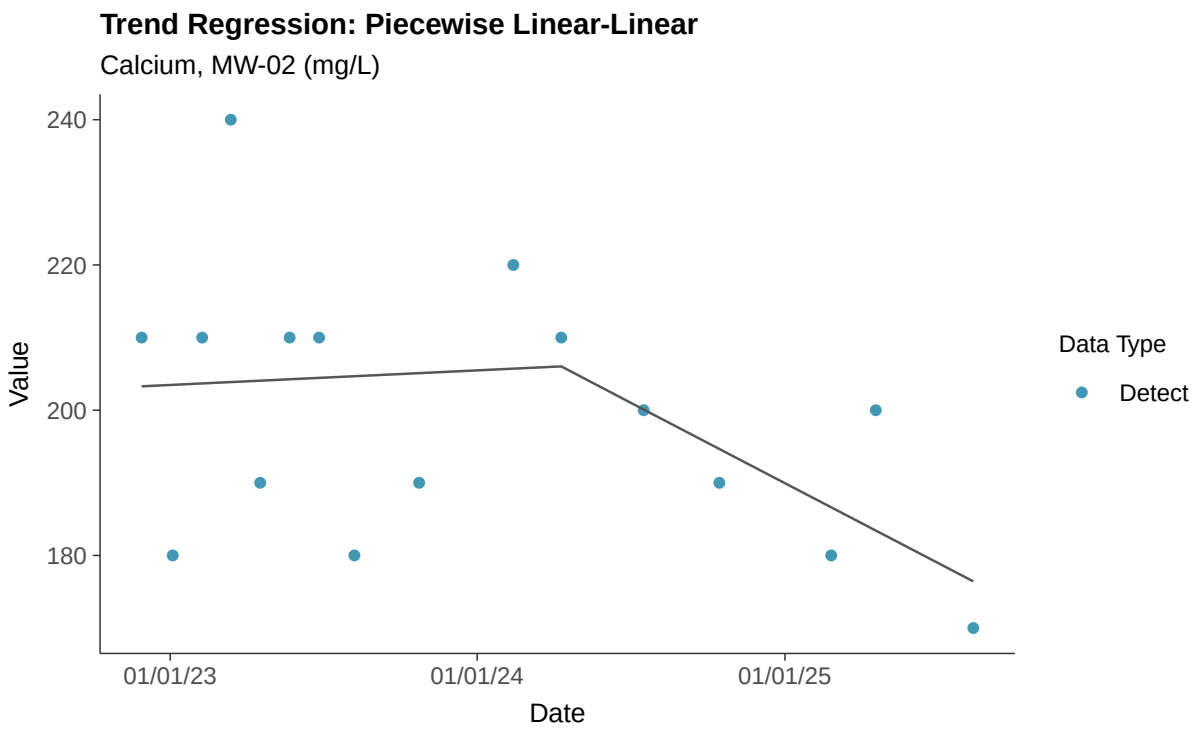
Calcium, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-02 (mg/L)



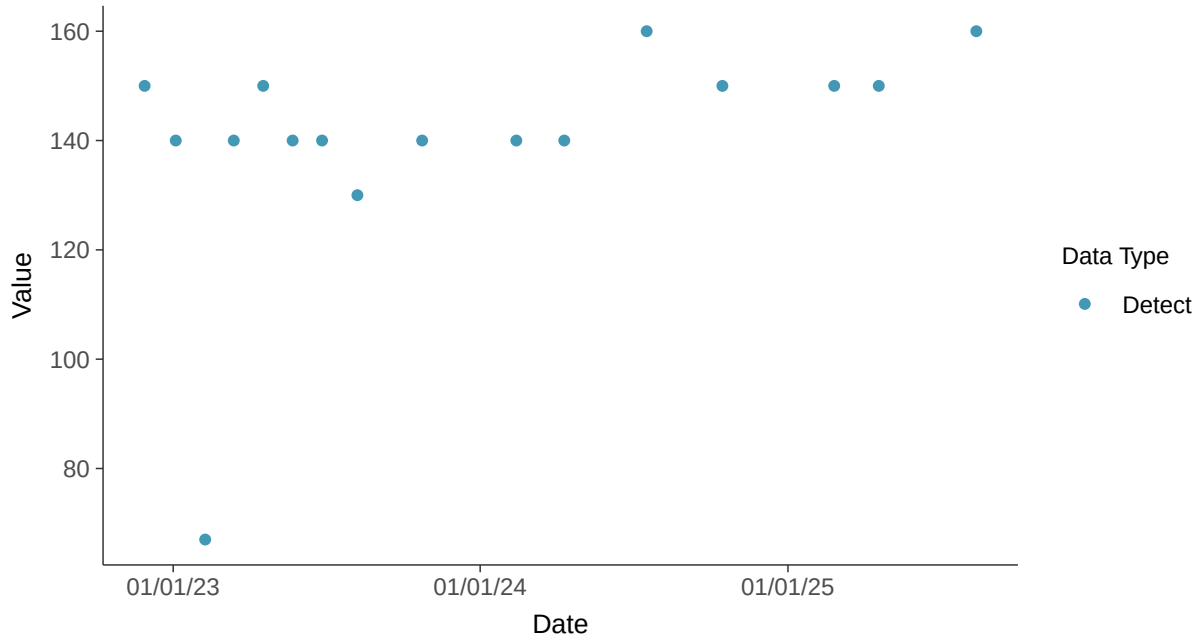


Appendix III: Chloride (as Cl), MW-02

ID: 12_2_3_108

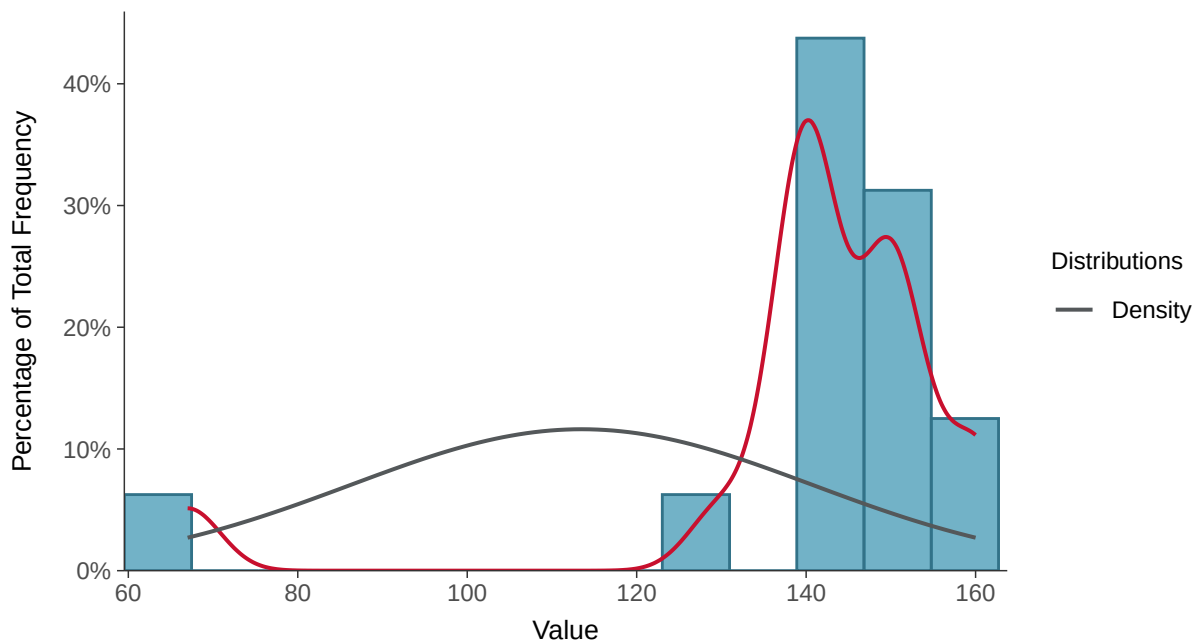
Scatter Plot

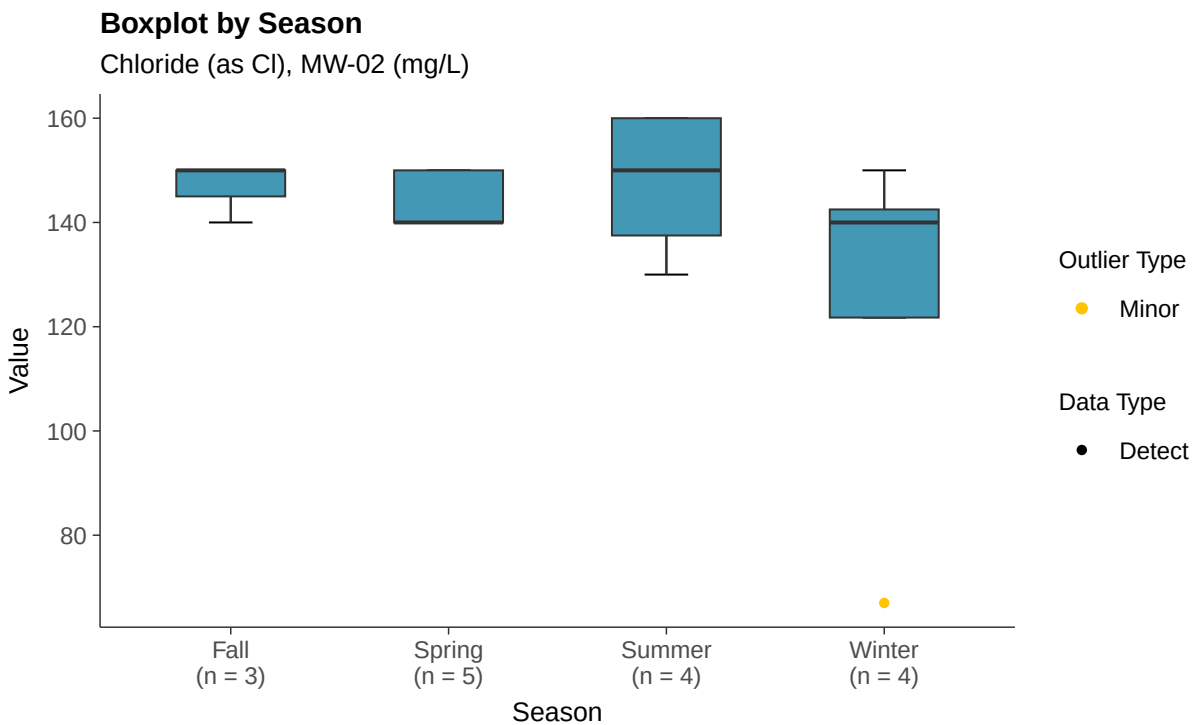
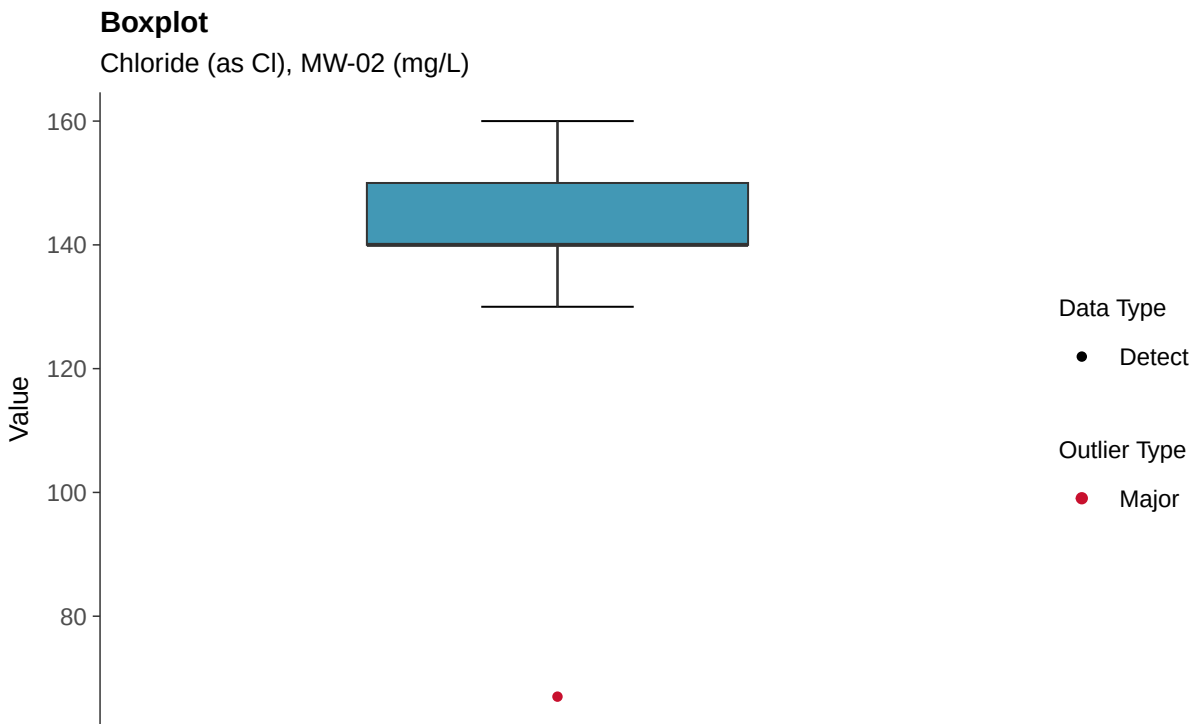
Chloride (as Cl), MW-02 (mg/L)



Histogram

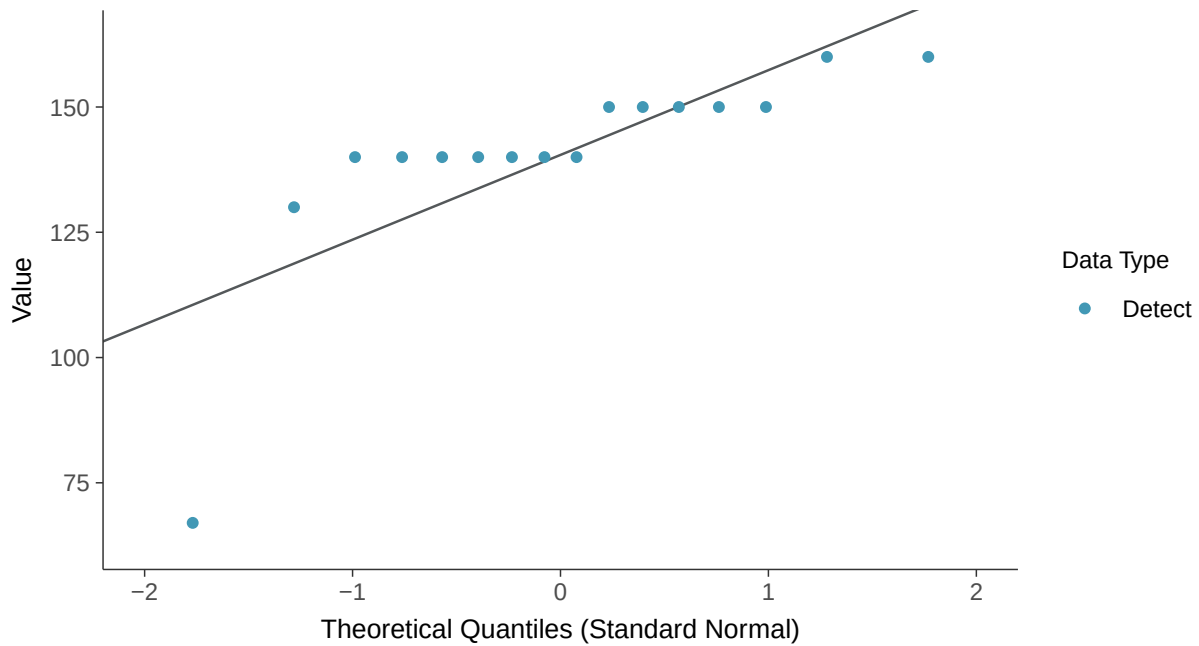
Chloride (as Cl), MW-02 (mg/L)





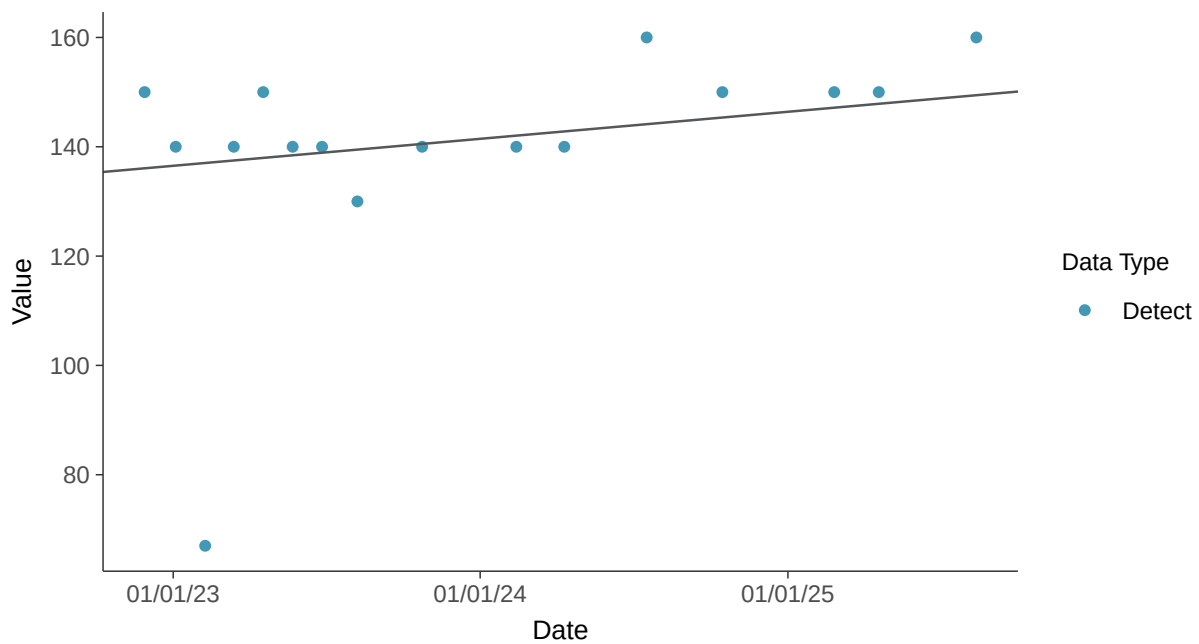
Normal Q-Q plot

Chloride (as Cl), MW-02 (mg/L)



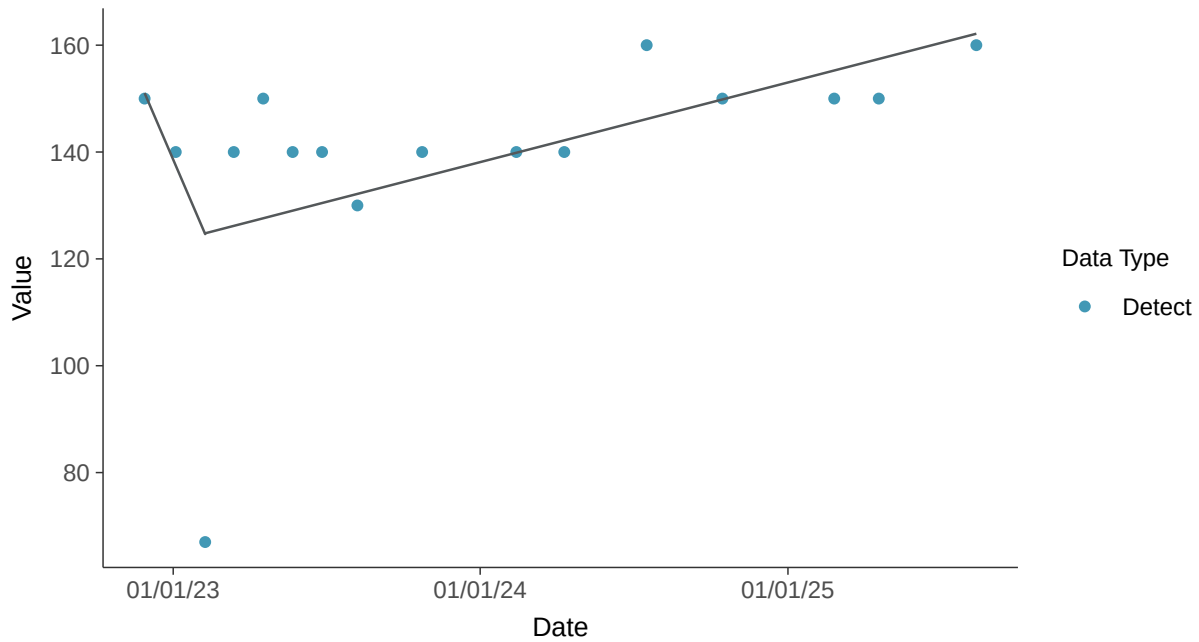
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-02 (mg/L)



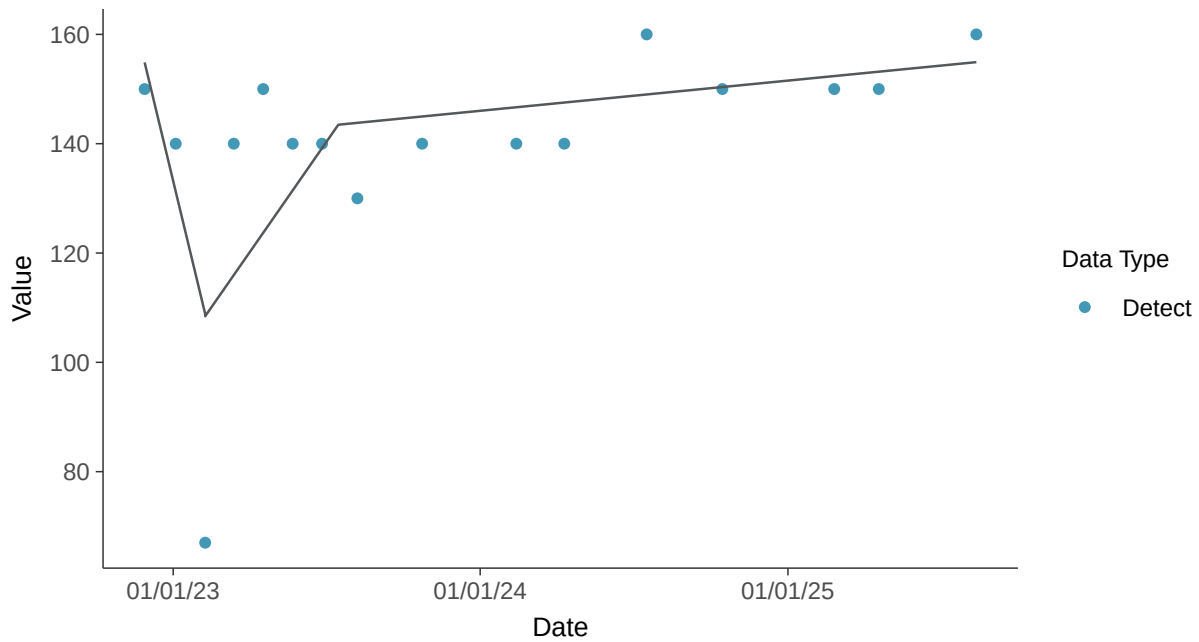
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-02 (mg/L)

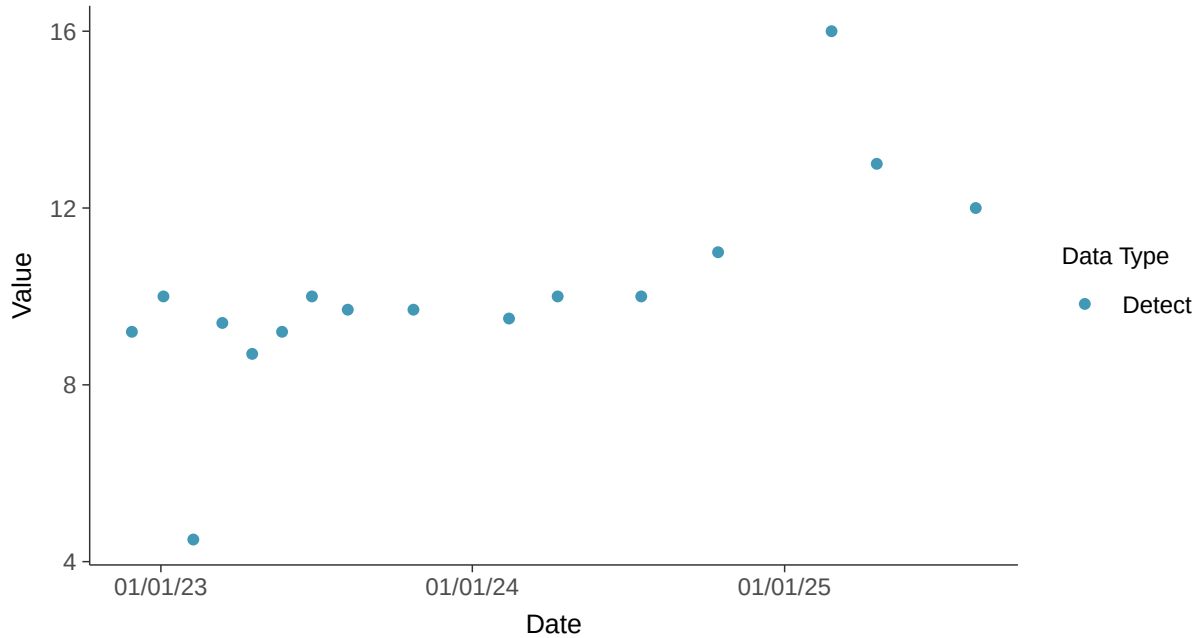


Appendix III: Fluoride, MW-02

ID: 12_2_3_112

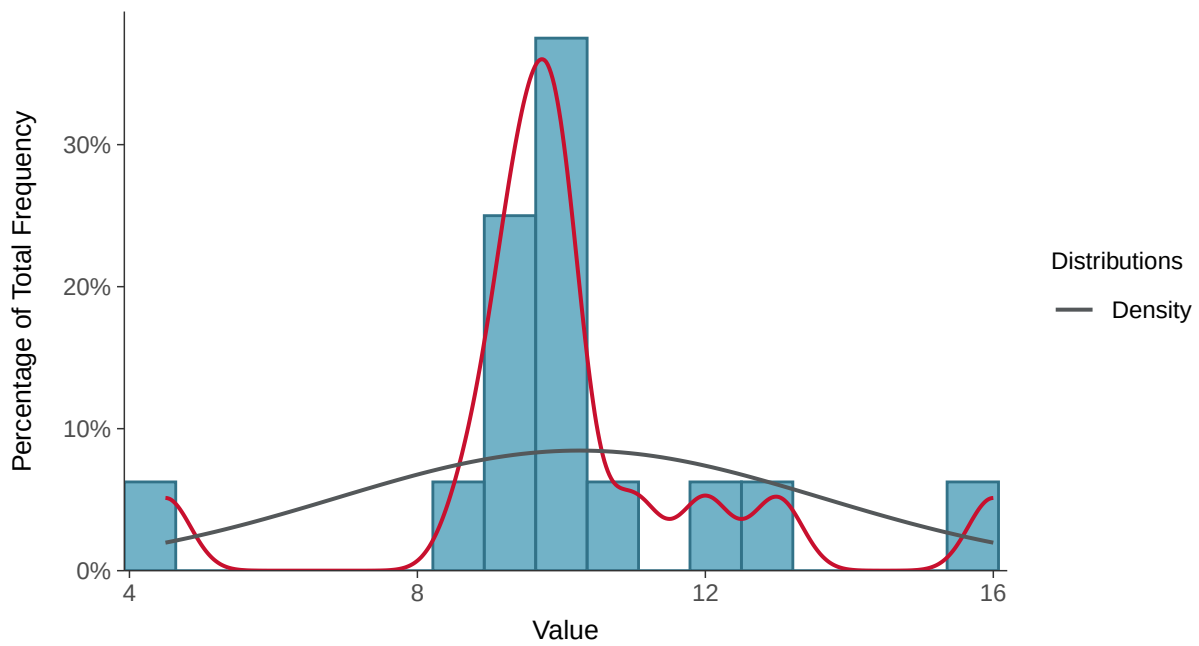
Scatter Plot

Fluoride, MW-02 (mg/L)



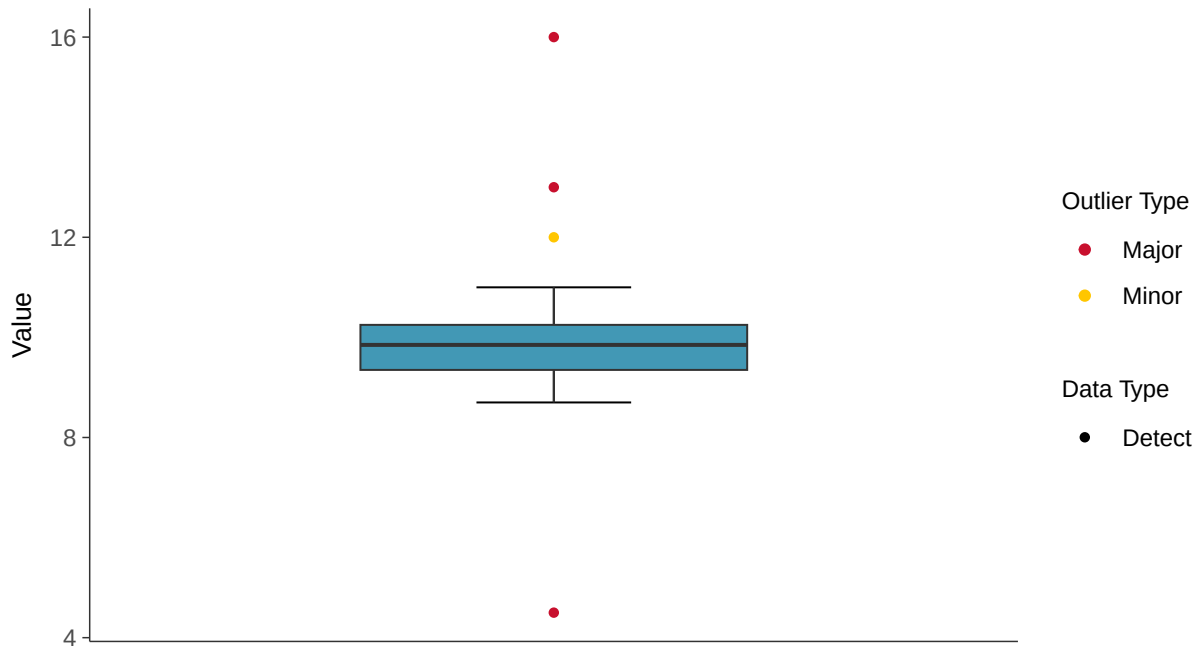
Histogram

Fluoride, MW-02 (mg/L)



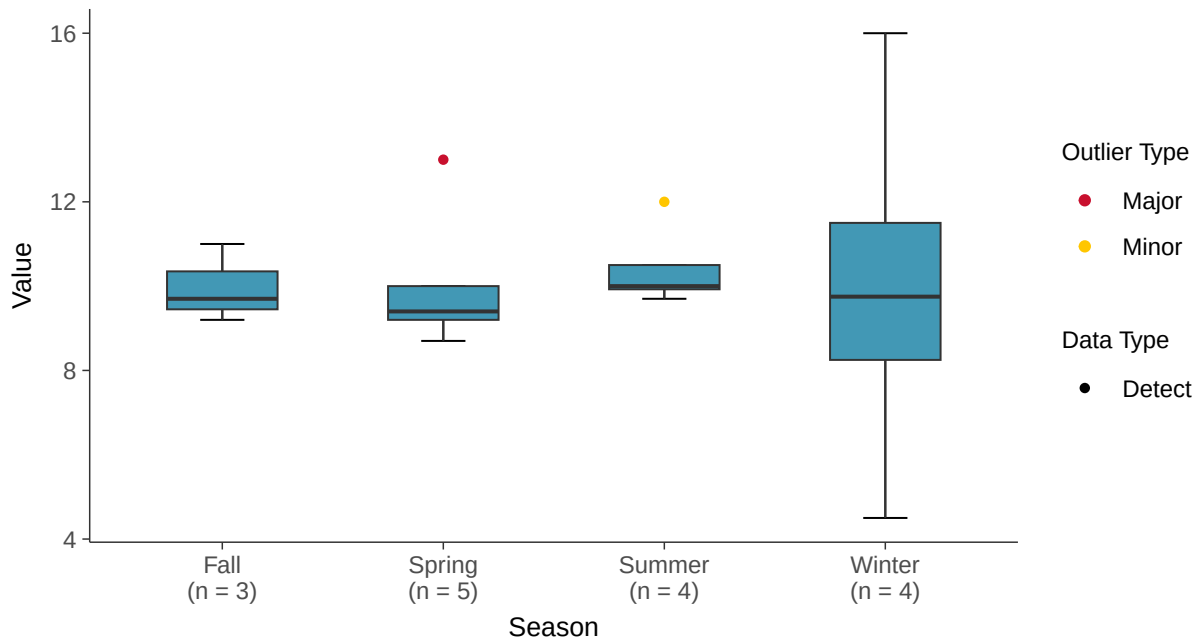
Boxplot

Fluoride, MW-02 (mg/L)



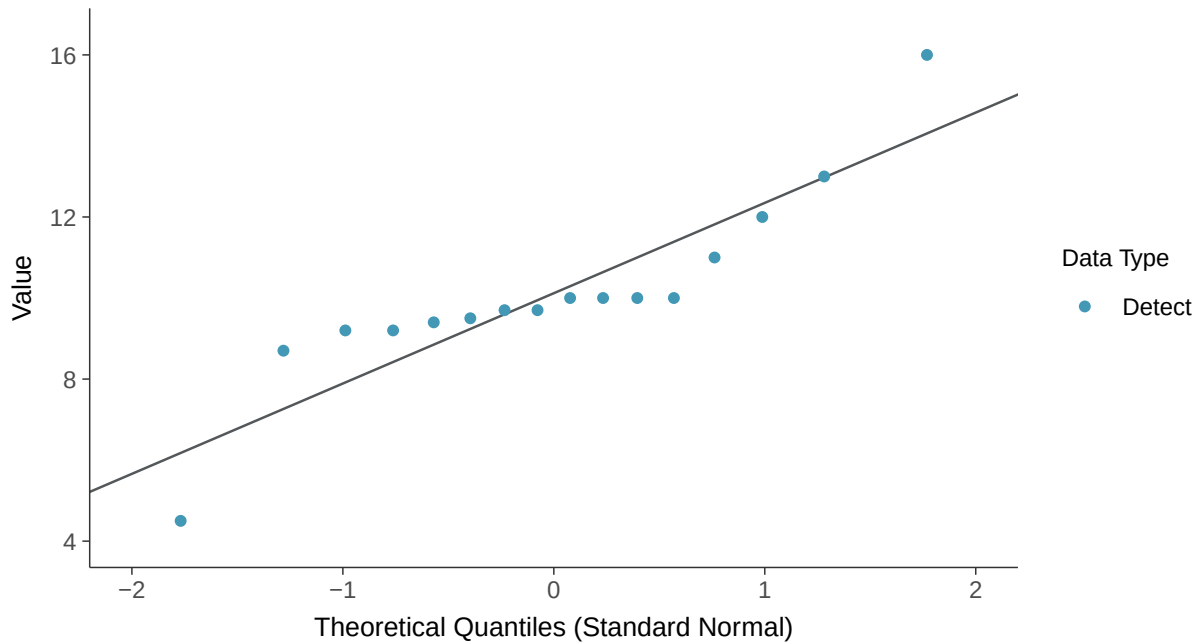
Boxplot by Season

Fluoride, MW-02 (mg/L)



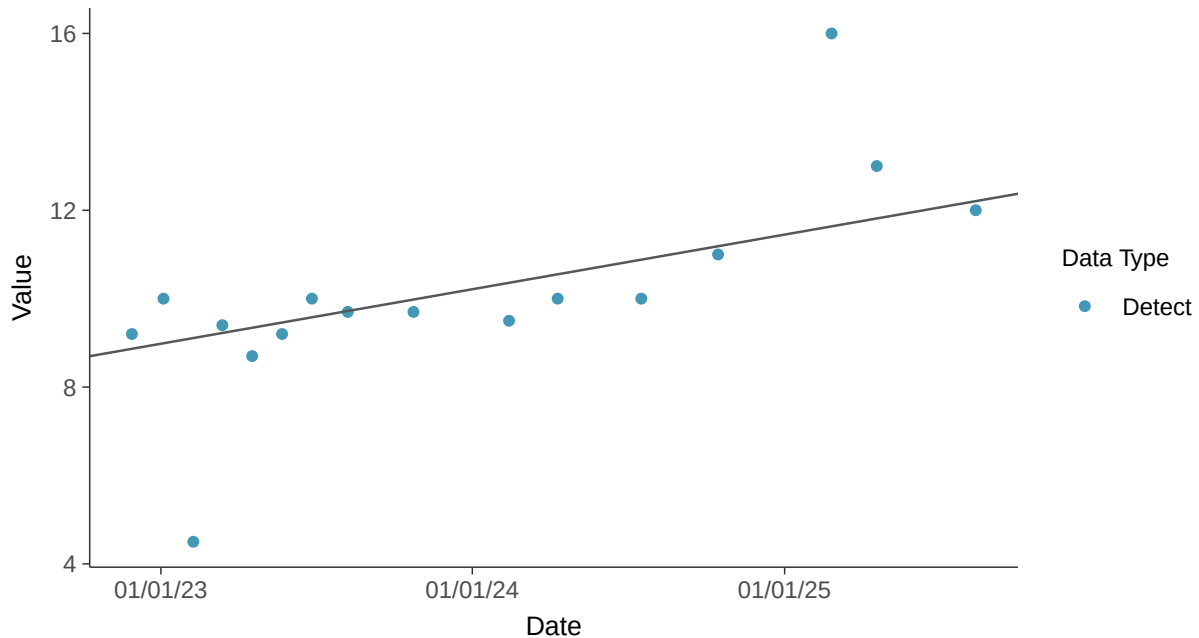
Normal Q-Q plot

Fluoride, MW-02 (mg/L)



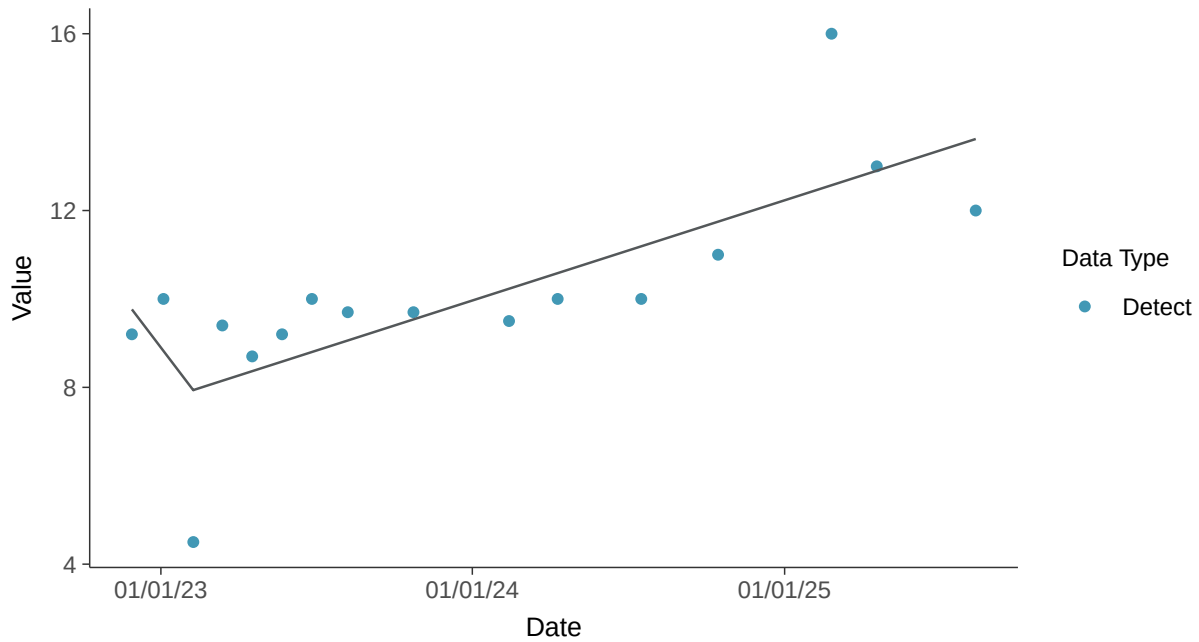
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride, MW-02 (mg/L)



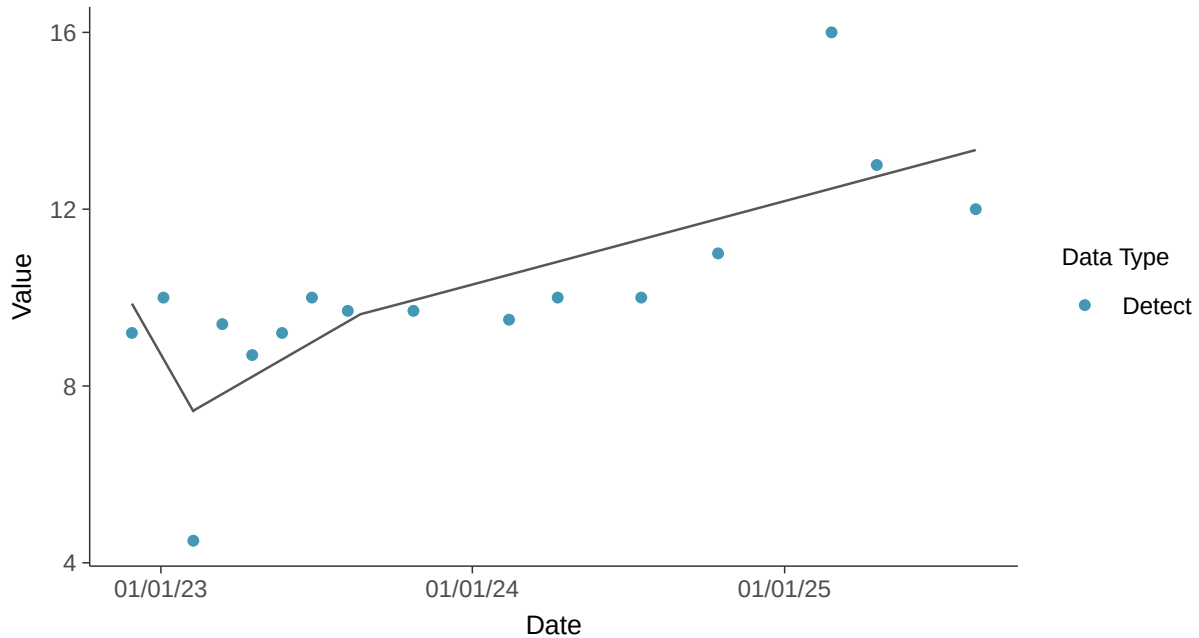
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-02 (mg/L)



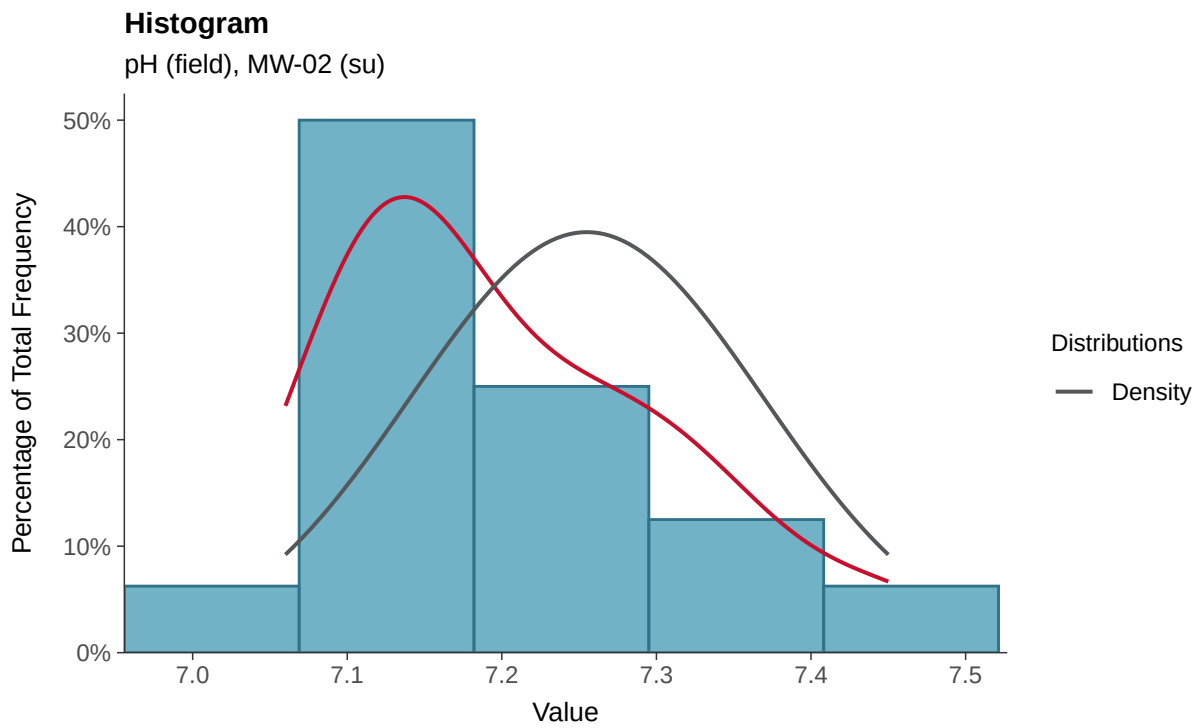
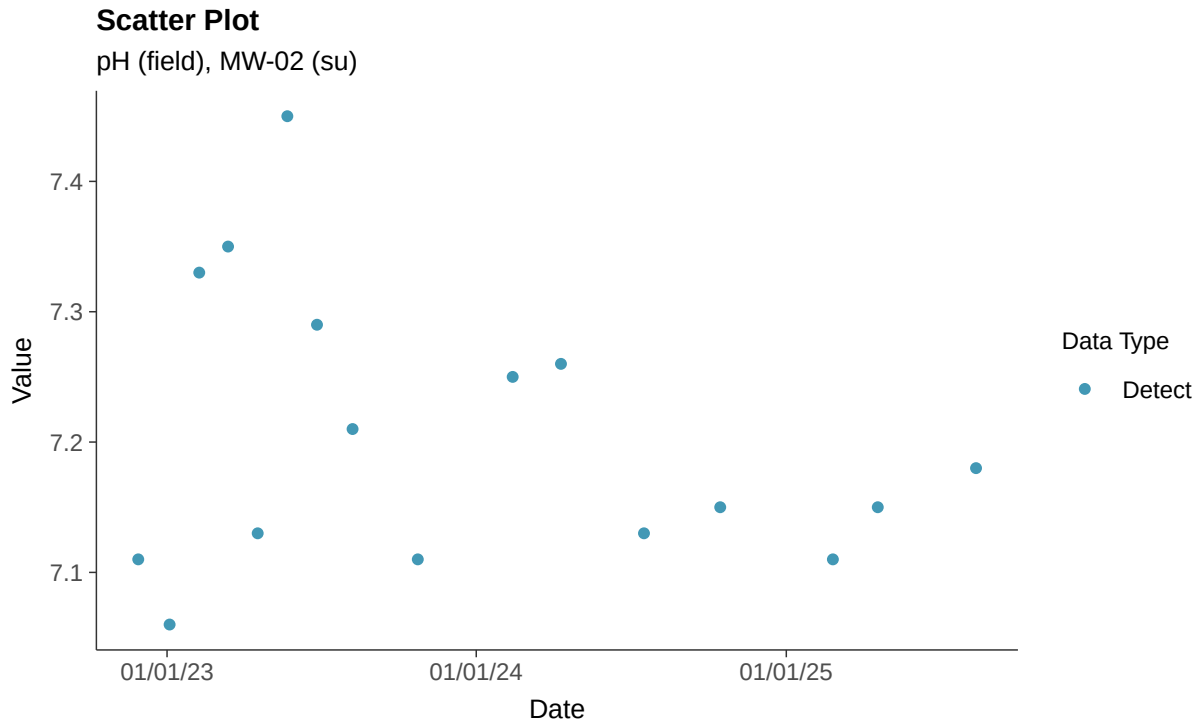
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-02 (mg/L)



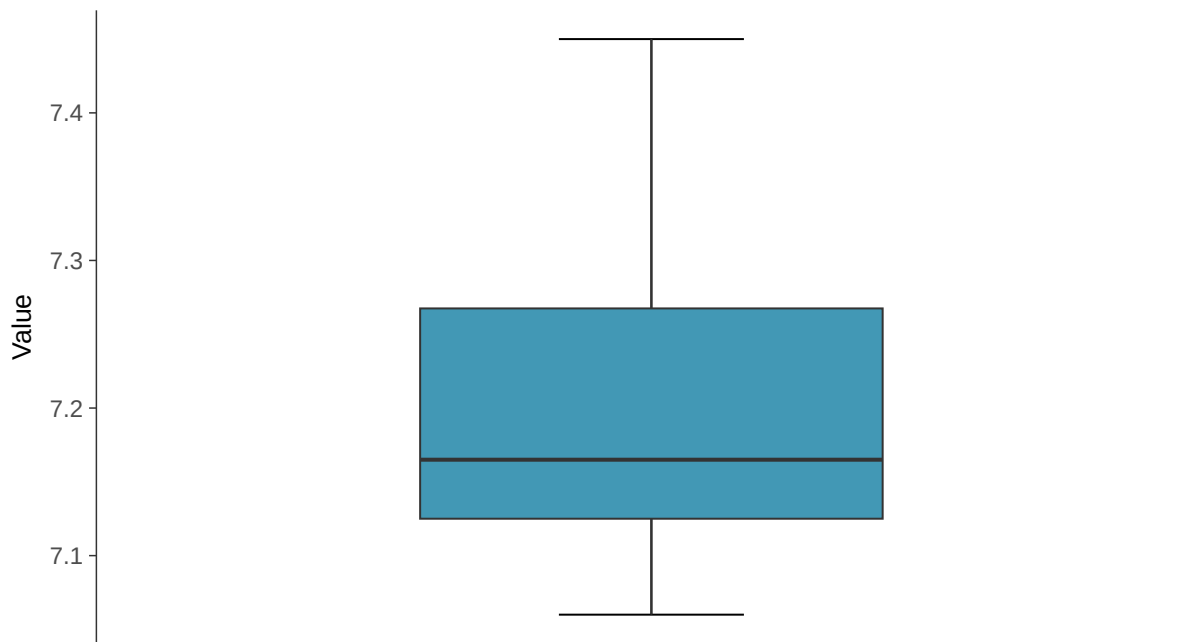
Appendix III: pH (field), MW-02

ID: 12_2_3_120



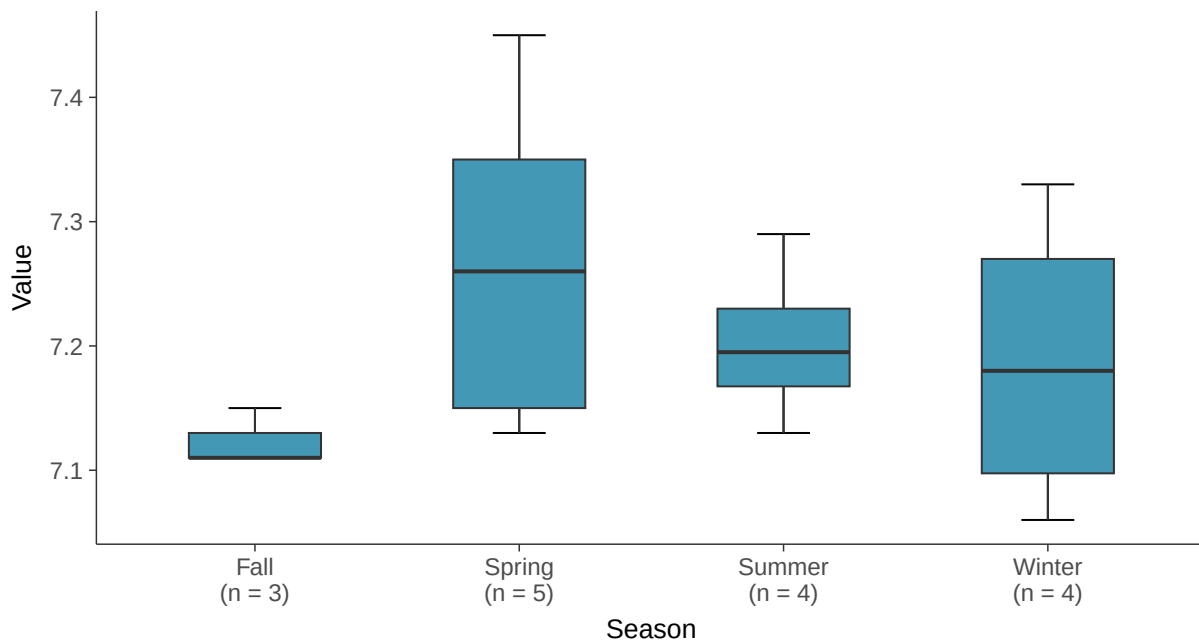
Boxplot

pH (field), MW-02 (su)

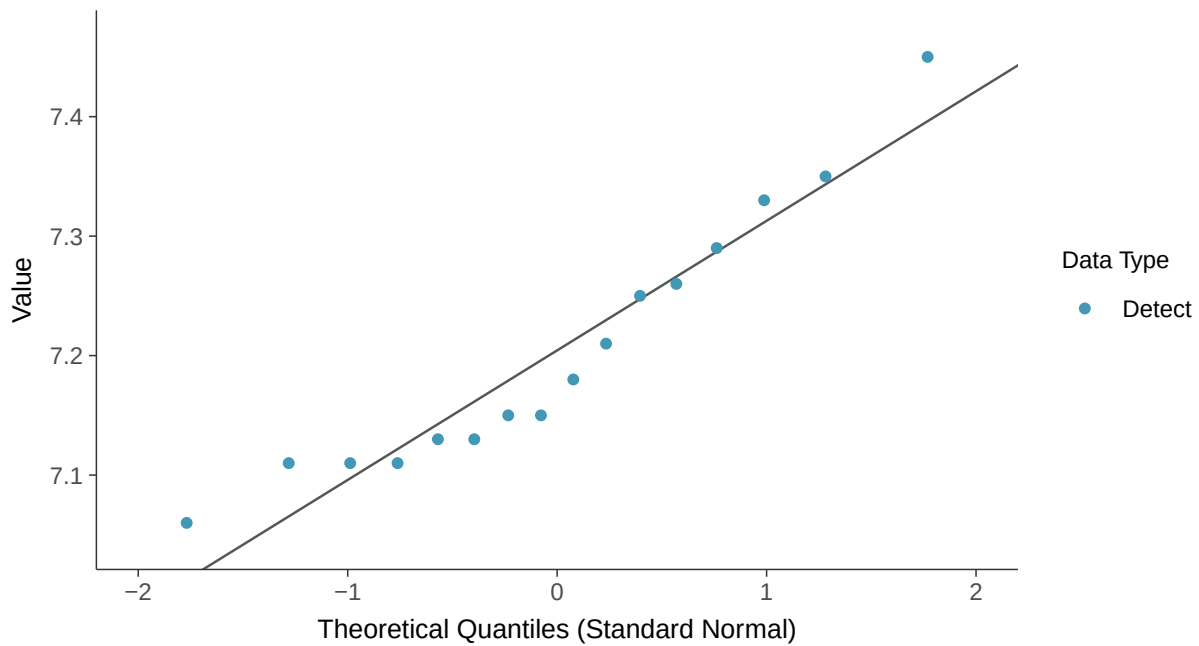


Boxplot by Season

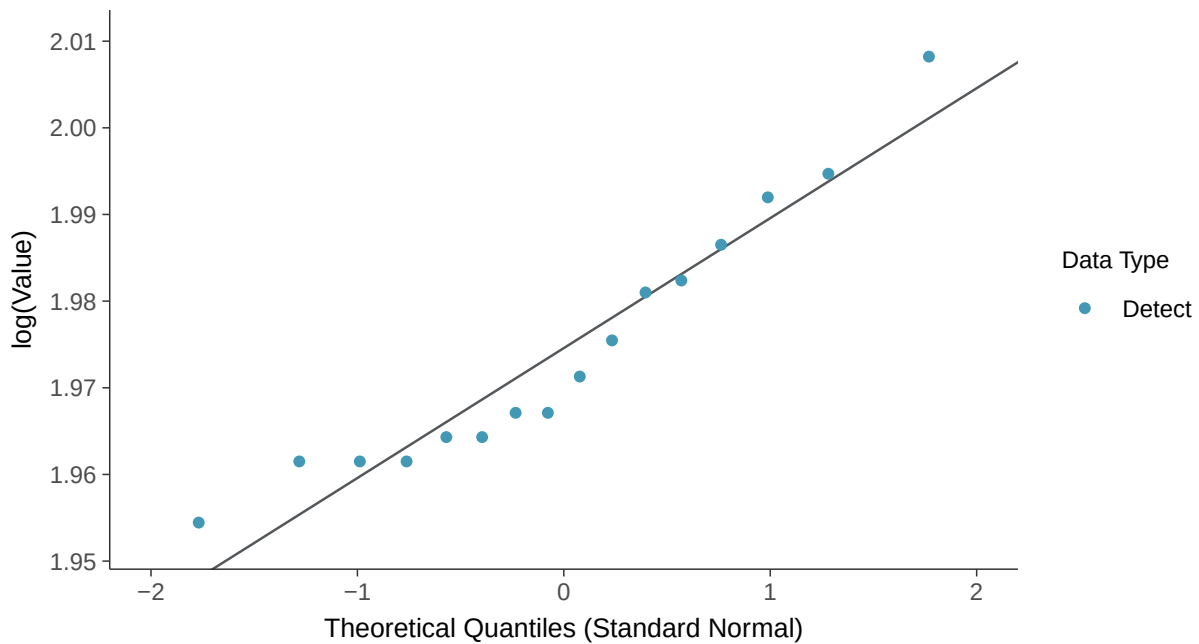
pH (field), MW-02 (su)

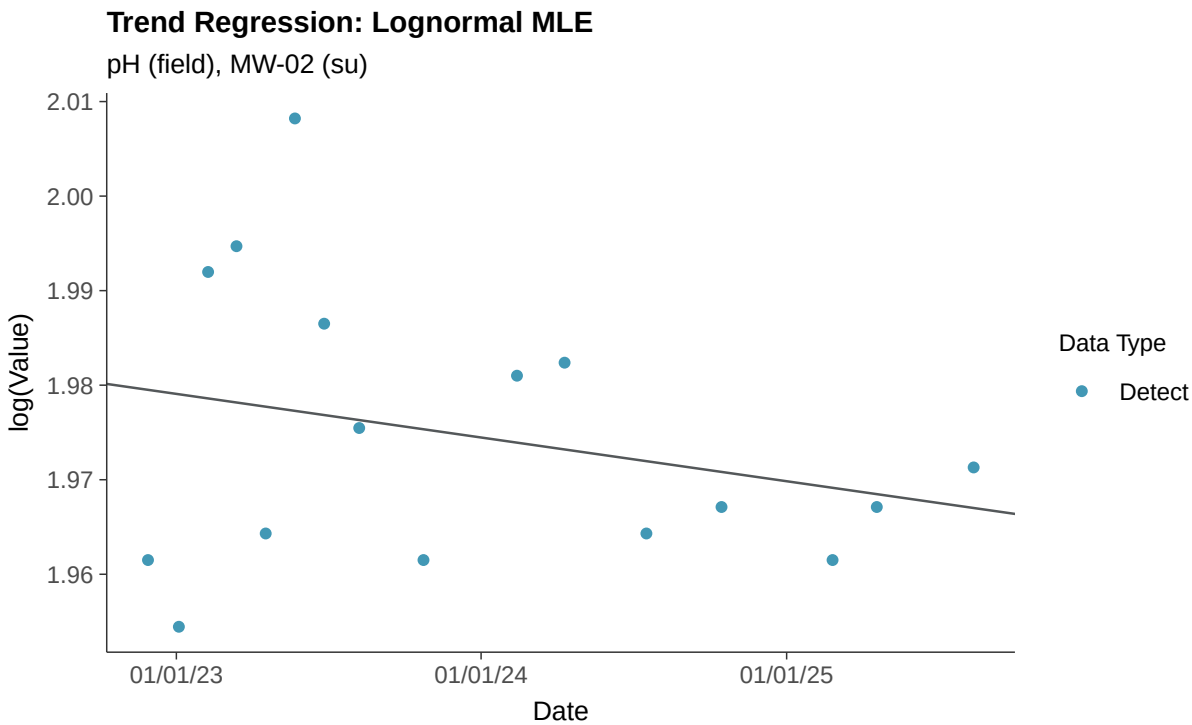
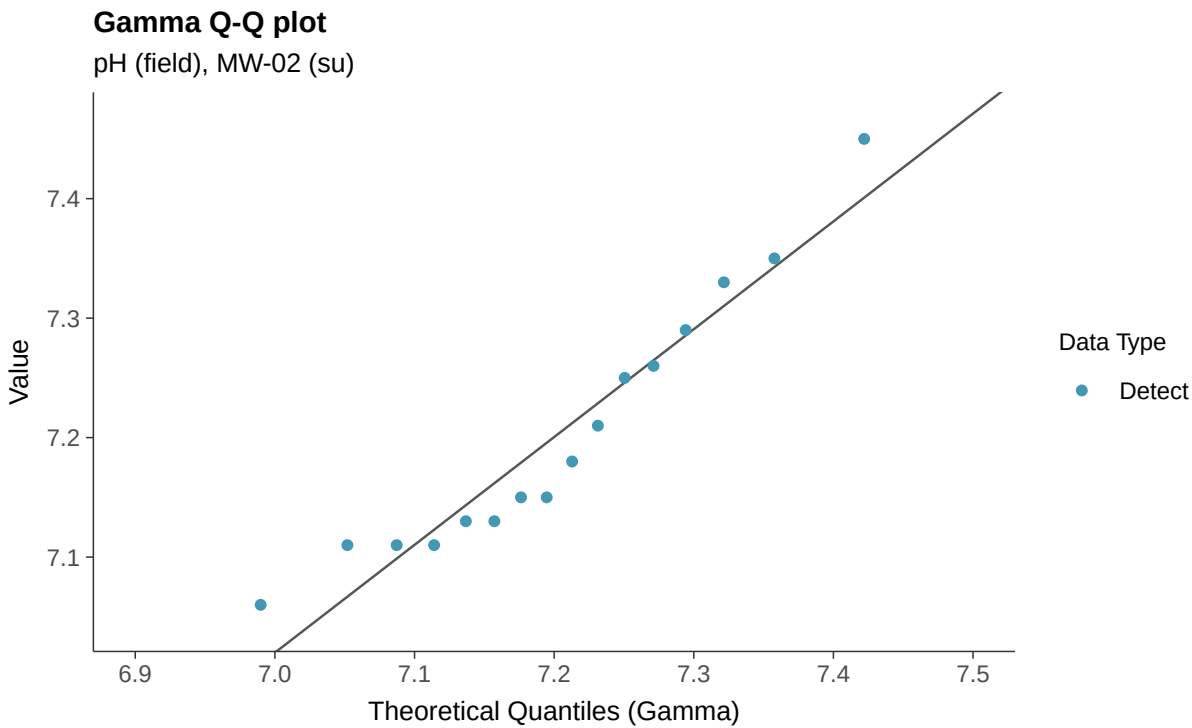


Normal Q-Q plot
pH (field), MW-02 (su)



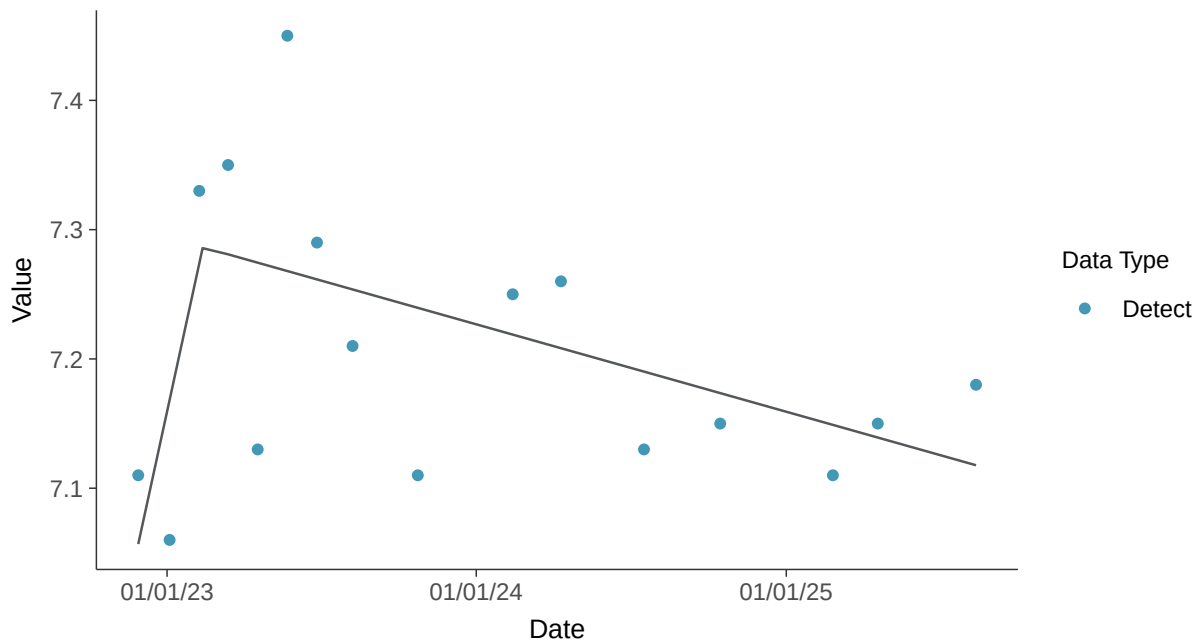
Lognormal Q-Q plot
pH (field), MW-02 (su)





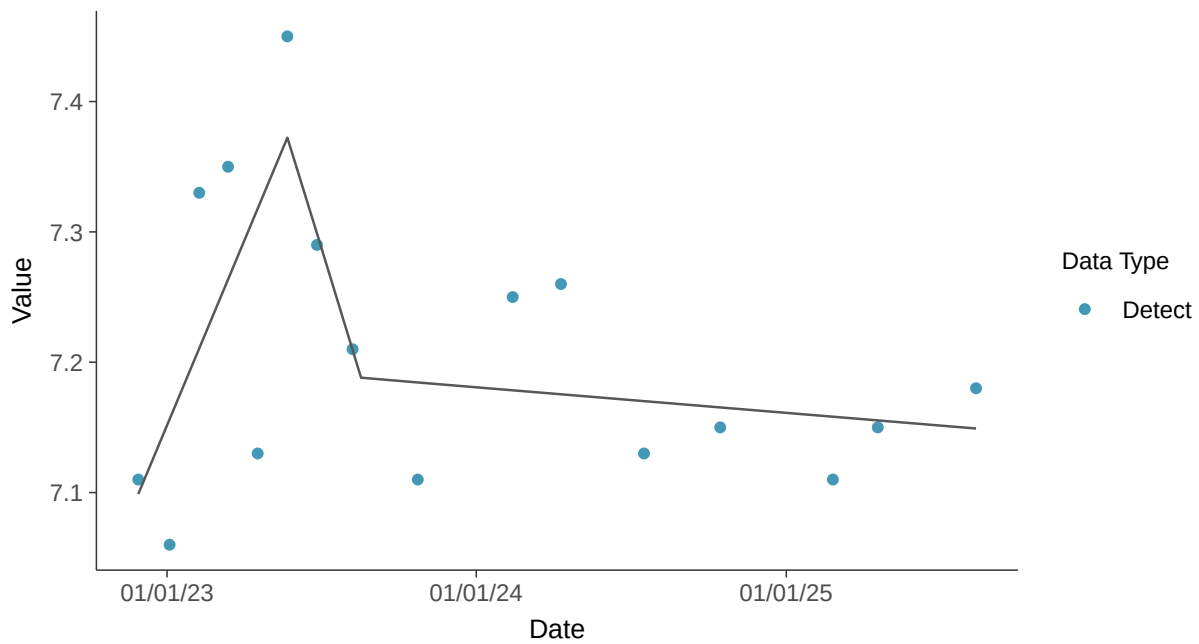
Trend Regression: Piecewise Linear-Linear

pH (field), MW-02 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-02 (su)

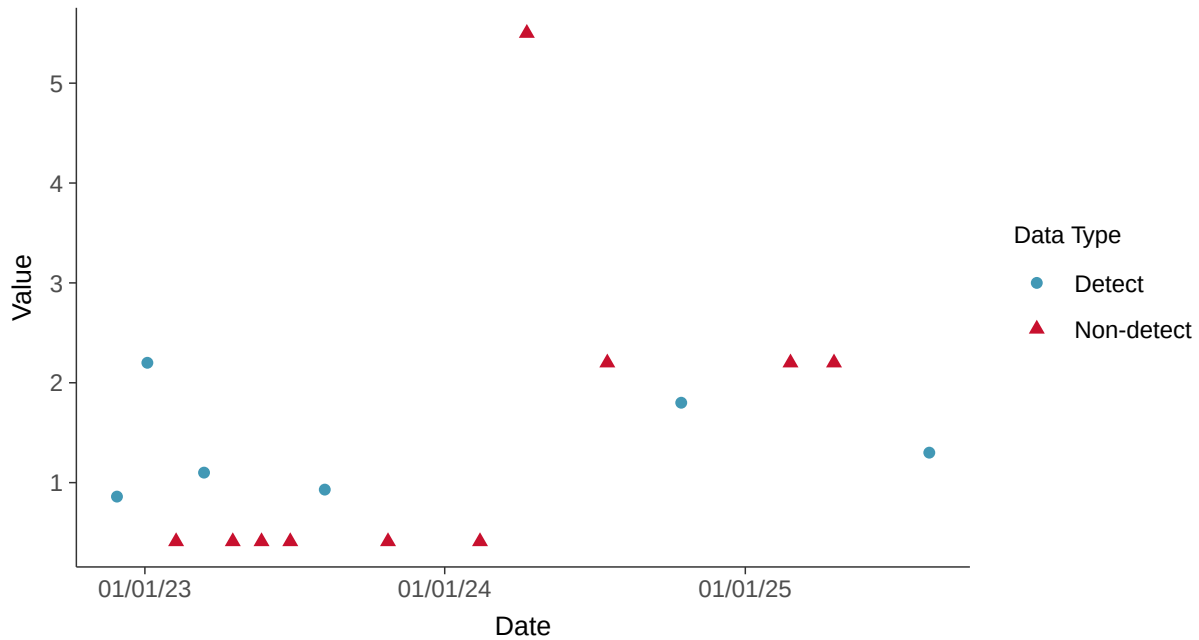


Appendix III: Sulfate (as SO₄), MW-02

ID: 12_2_3_124

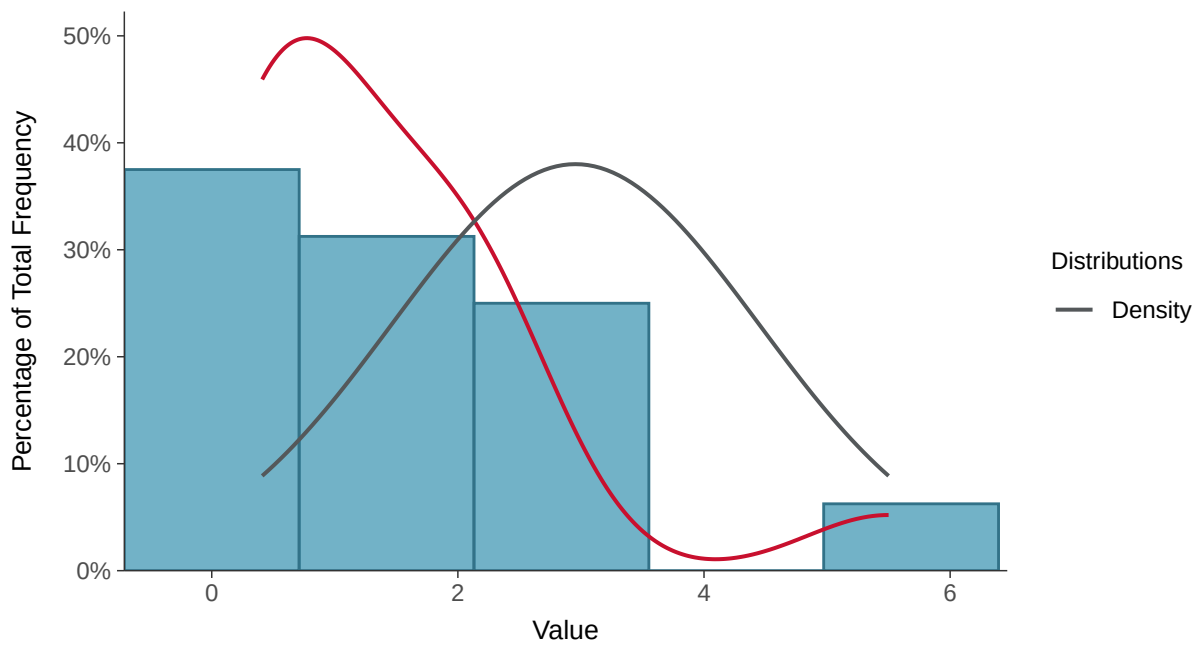
Scatter Plot

Sulfate (as SO₄), MW-02 (mg/L)



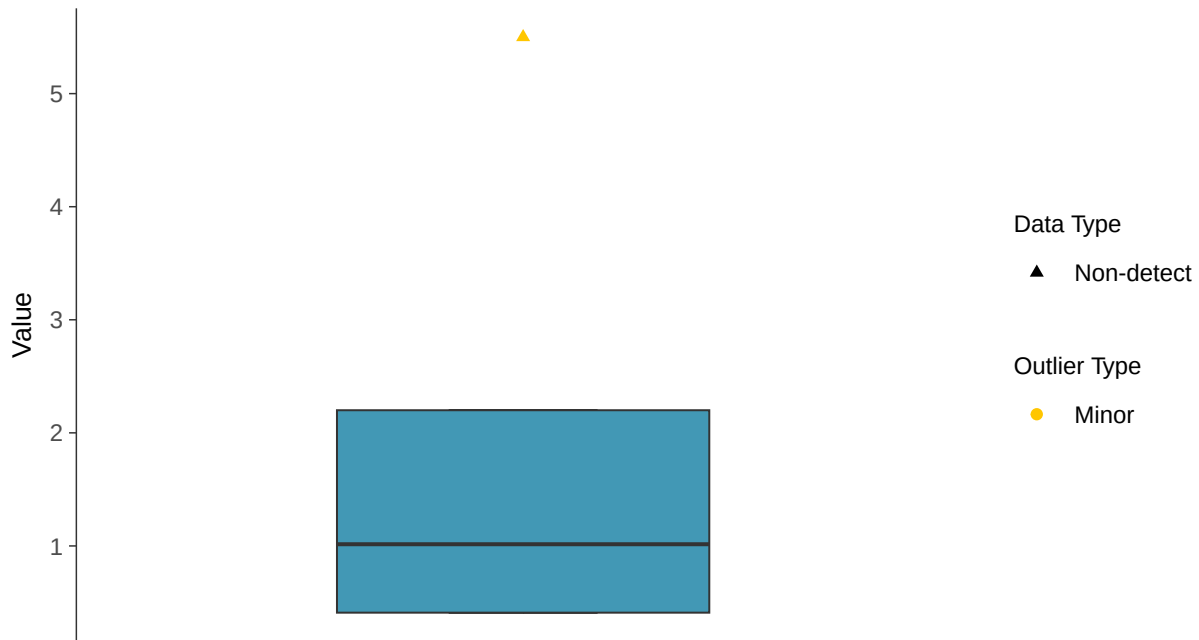
Histogram

Sulfate (as SO₄), MW-02 (mg/L)



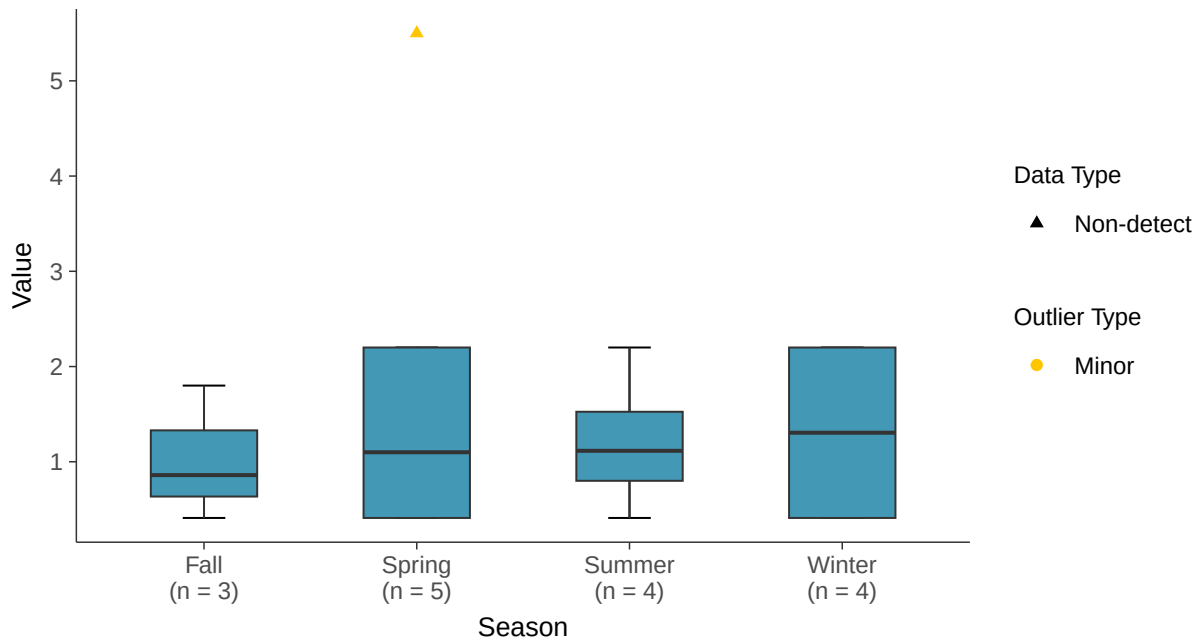
Boxplot

Sulfate (as SO₄), MW-02 (mg/L)



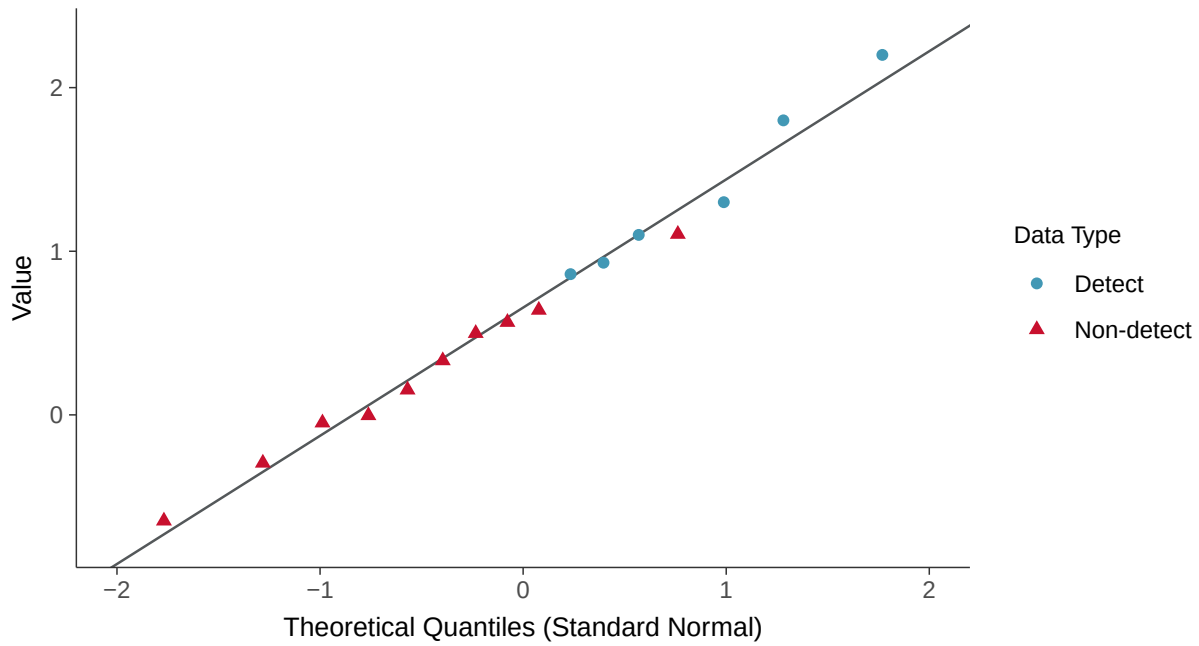
Boxplot by Season

Sulfate (as SO₄), MW-02 (mg/L)



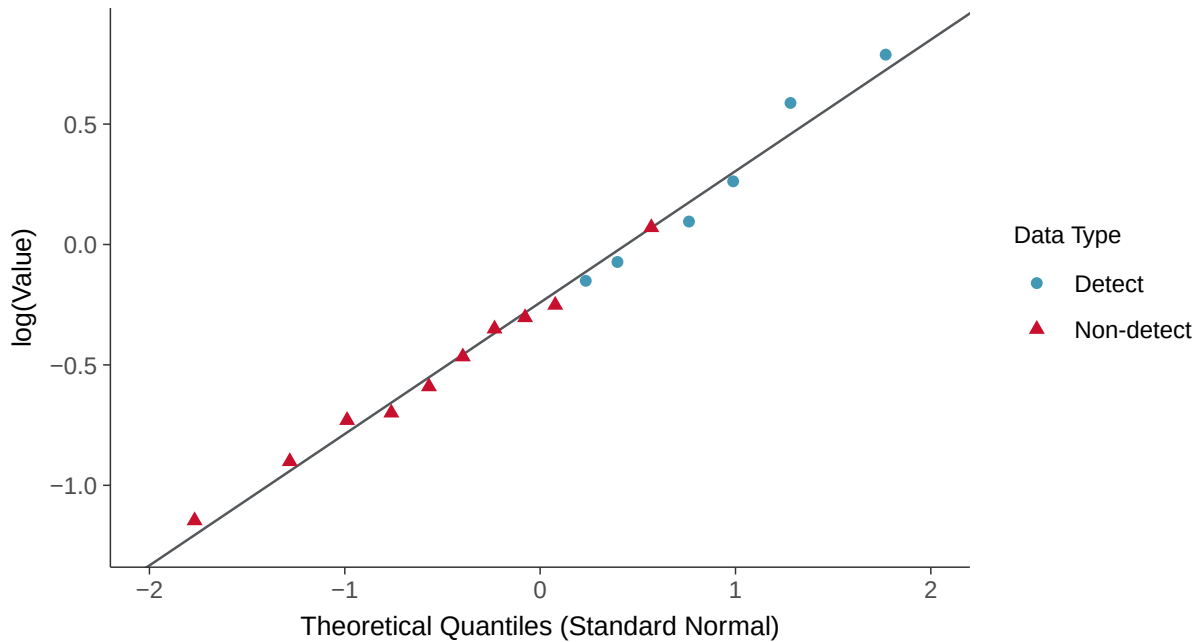
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-02 (mg/L)



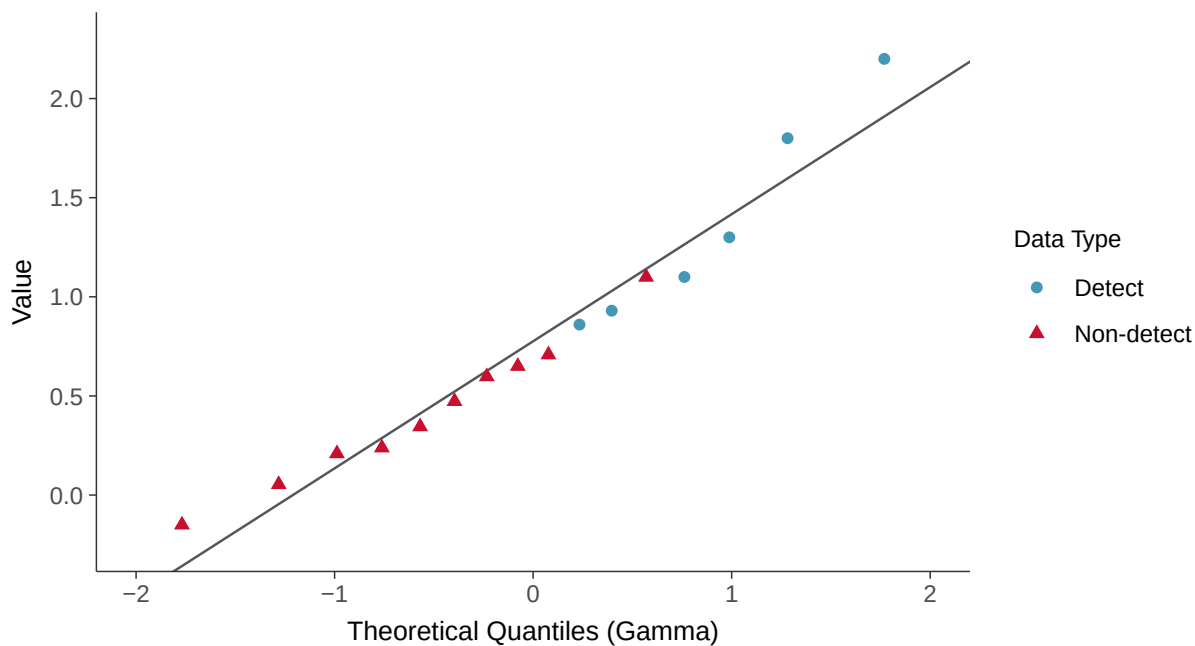
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-02 (mg/L)



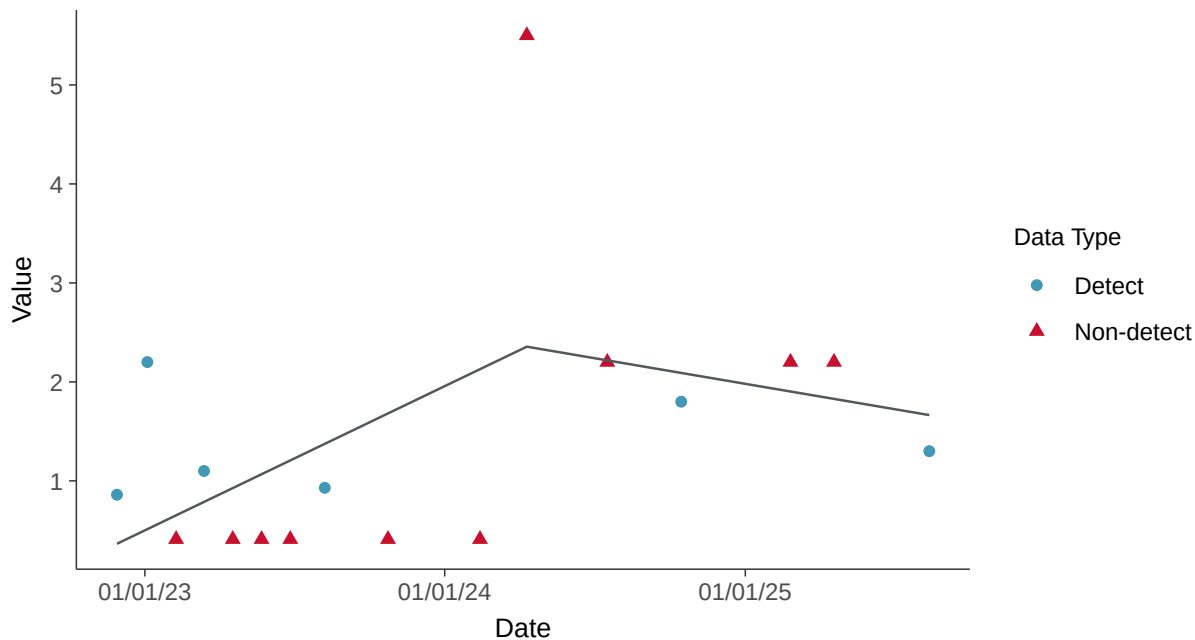
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

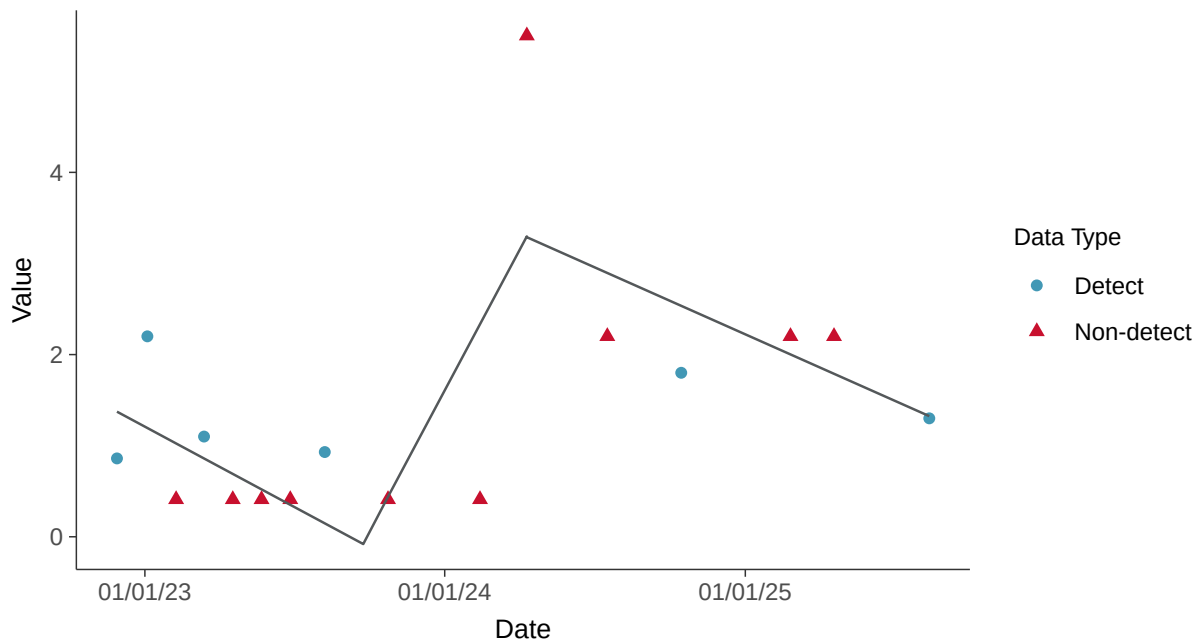
Sulfate (as SO₄), MW-02 (mg/L)





Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-02 (mg/L)

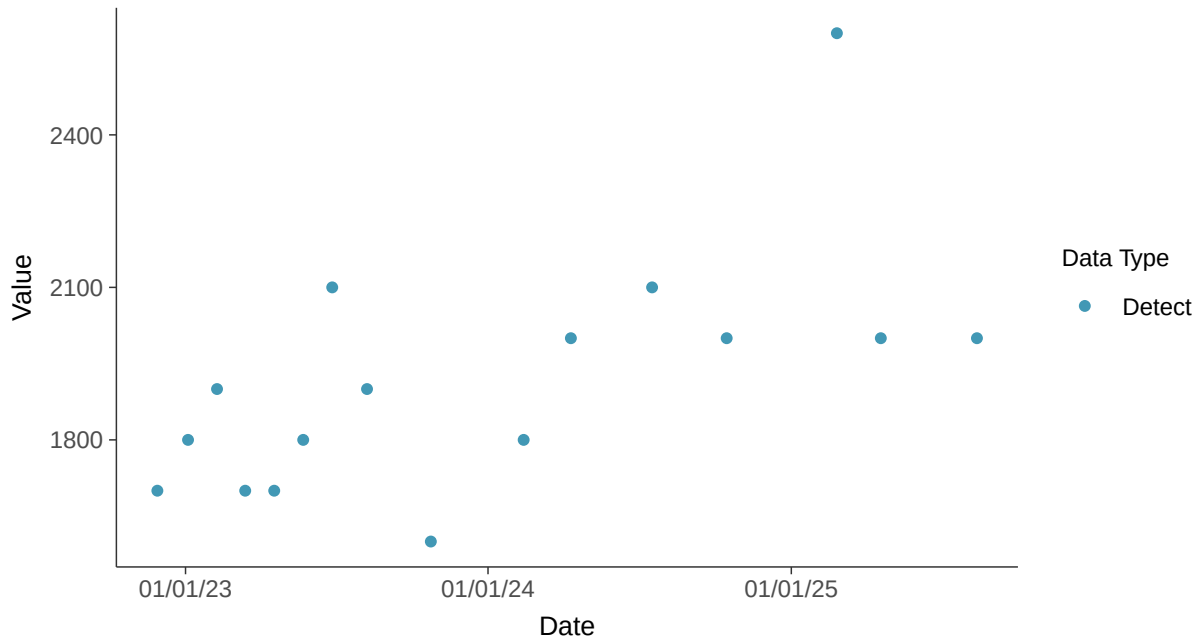


Appendix III: Total Dissolved Solids, MW-02

ID: 12_2_3_126

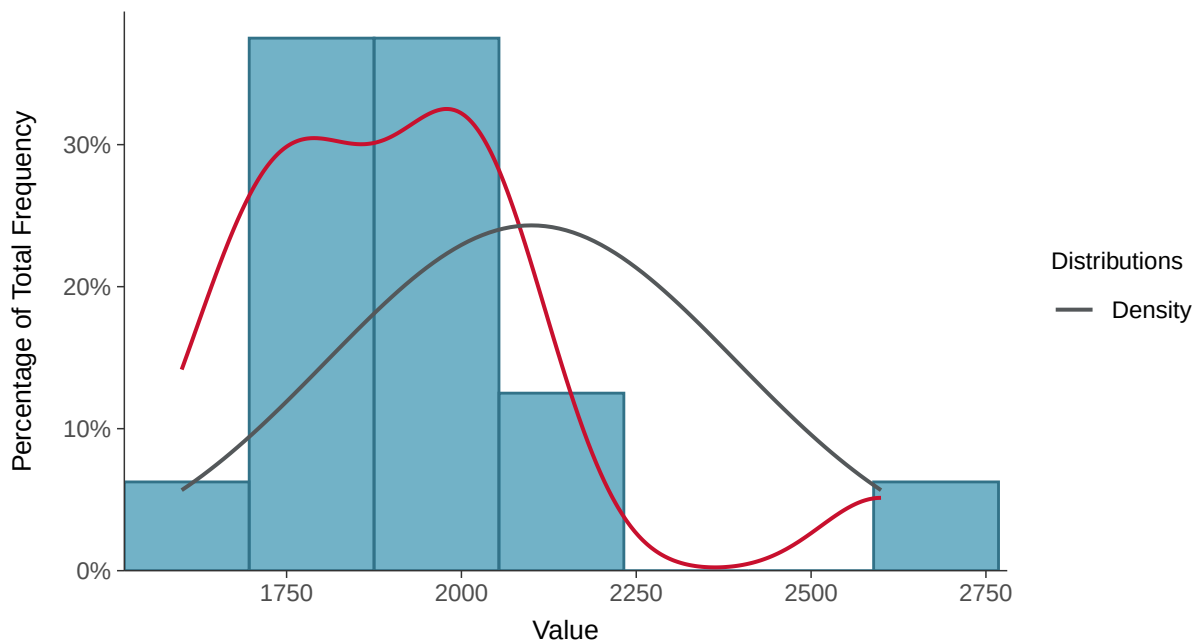
Scatter Plot

Total Dissolved Solids, MW-02 (mg/L)



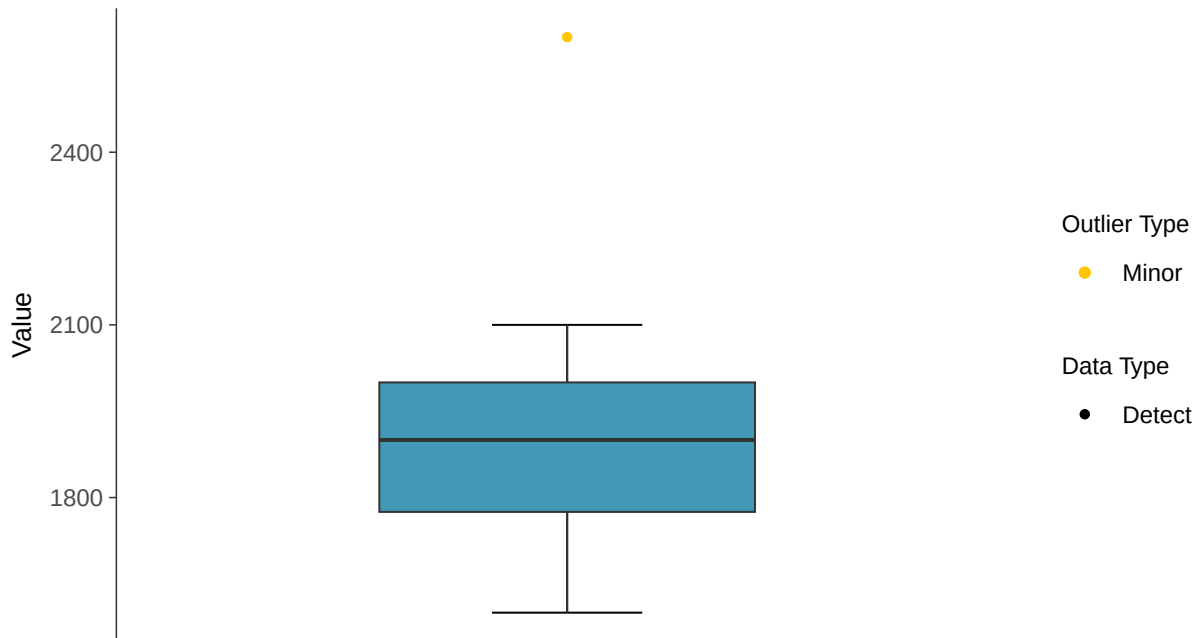
Histogram

Total Dissolved Solids, MW-02 (mg/L)



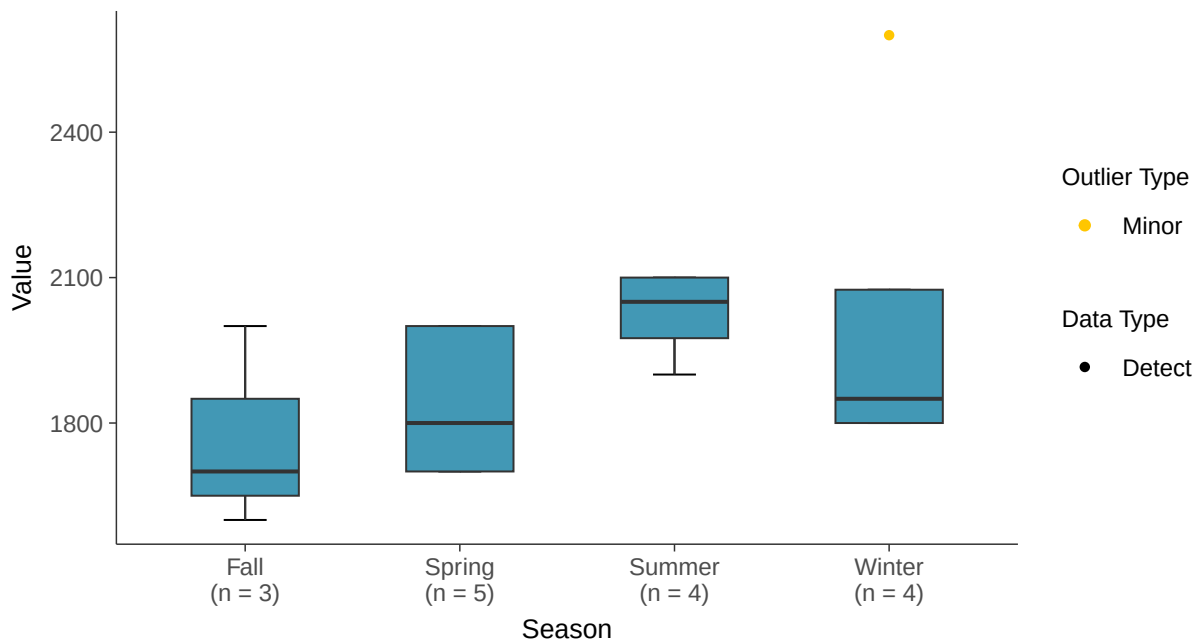
Boxplot

Total Dissolved Solids, MW-02 (mg/L)



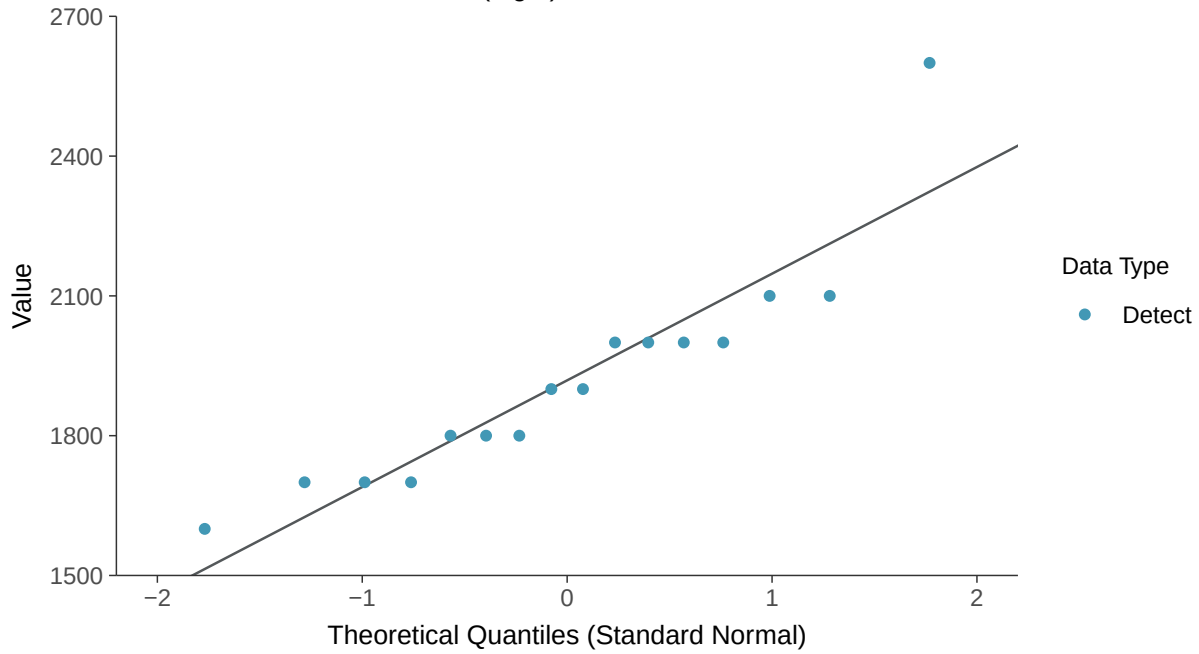
Boxplot by Season

Total Dissolved Solids, MW-02 (mg/L)



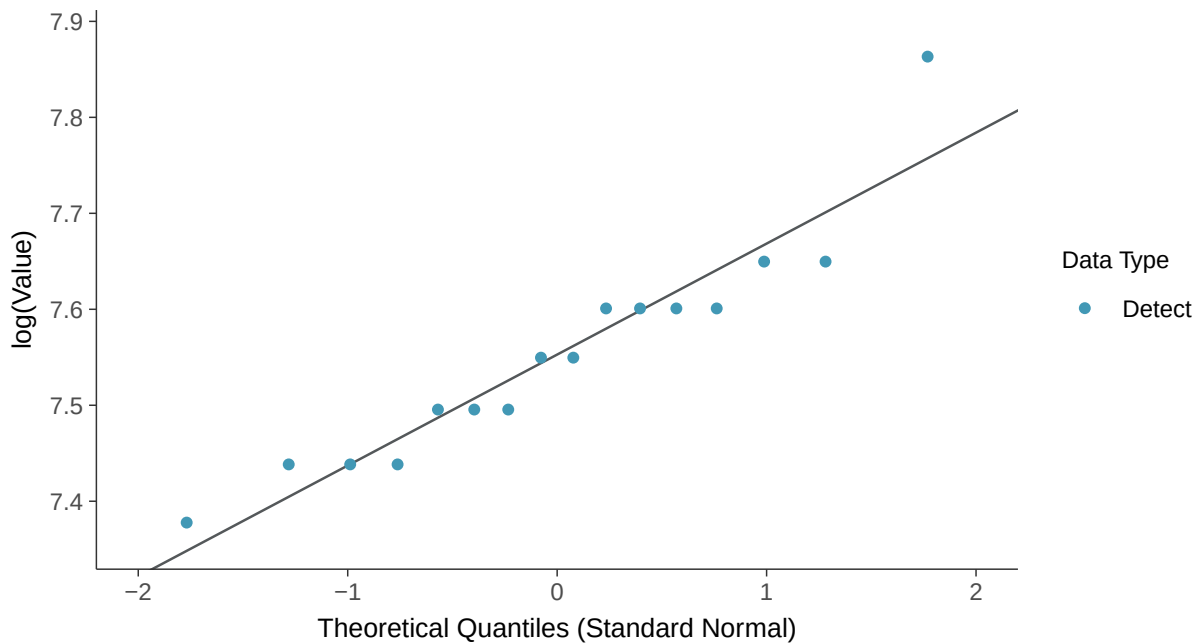
Normal Q-Q plot

Total Dissolved Solids, MW-02 (mg/L)



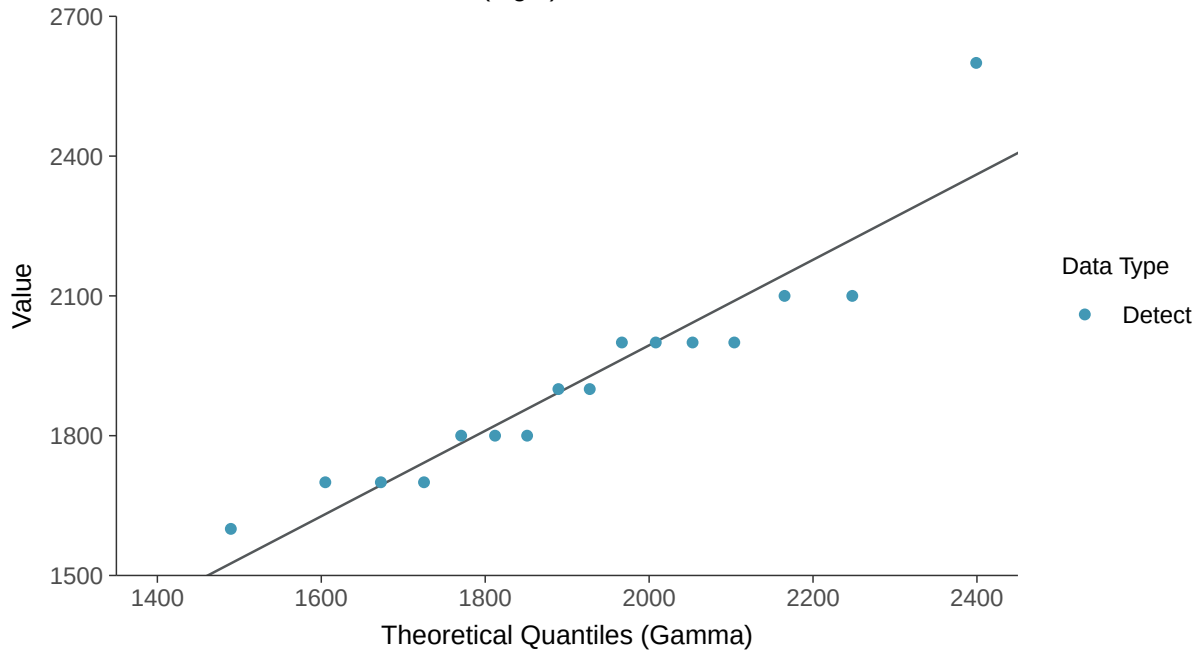
Lognormal Q-Q plot

Total Dissolved Solids, MW-02 (mg/L)



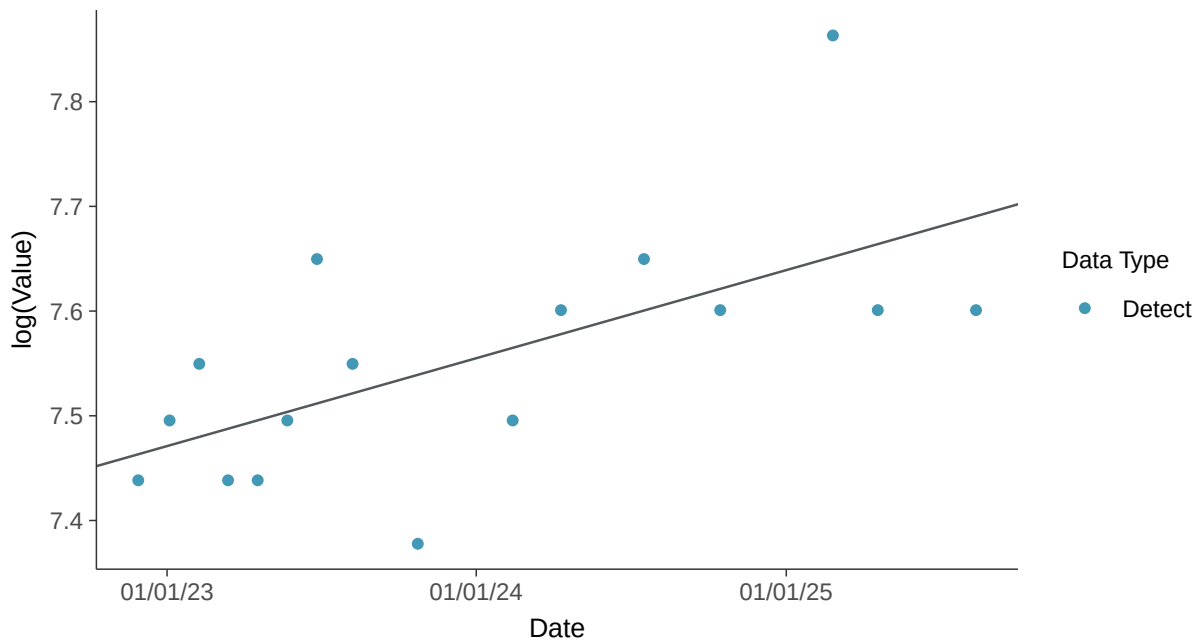
Gamma Q-Q plot

Total Dissolved Solids, MW-02 (mg/L)



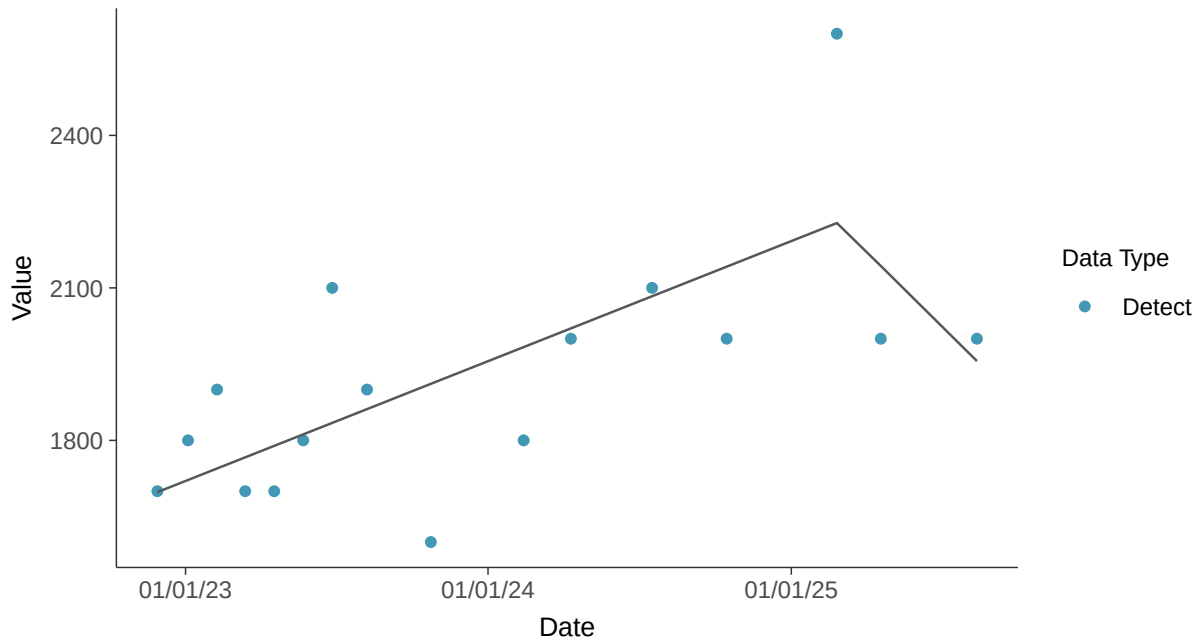
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-02 (mg/L)



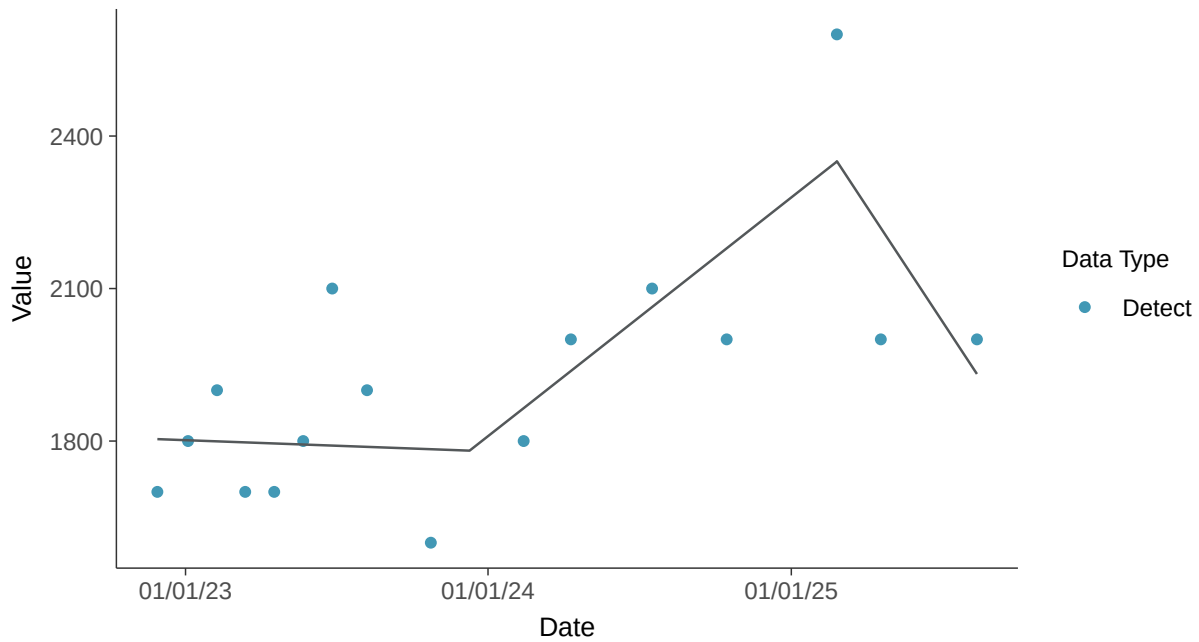
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-02 (mg/L)



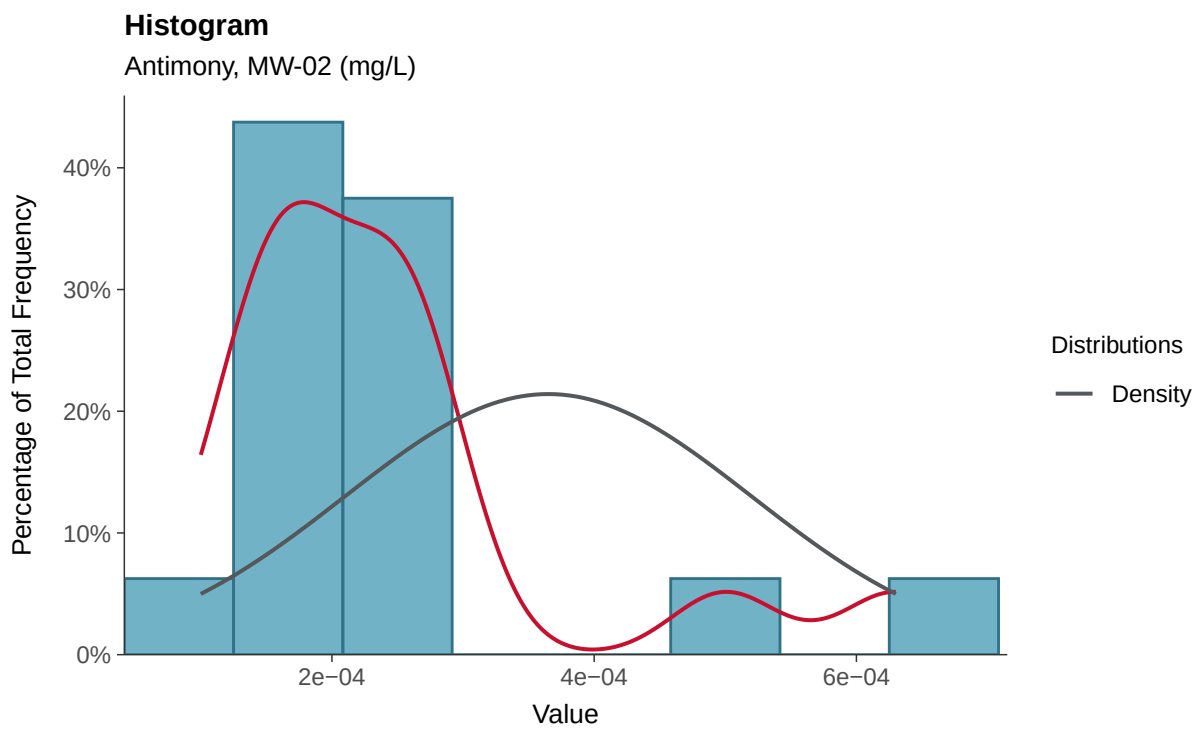
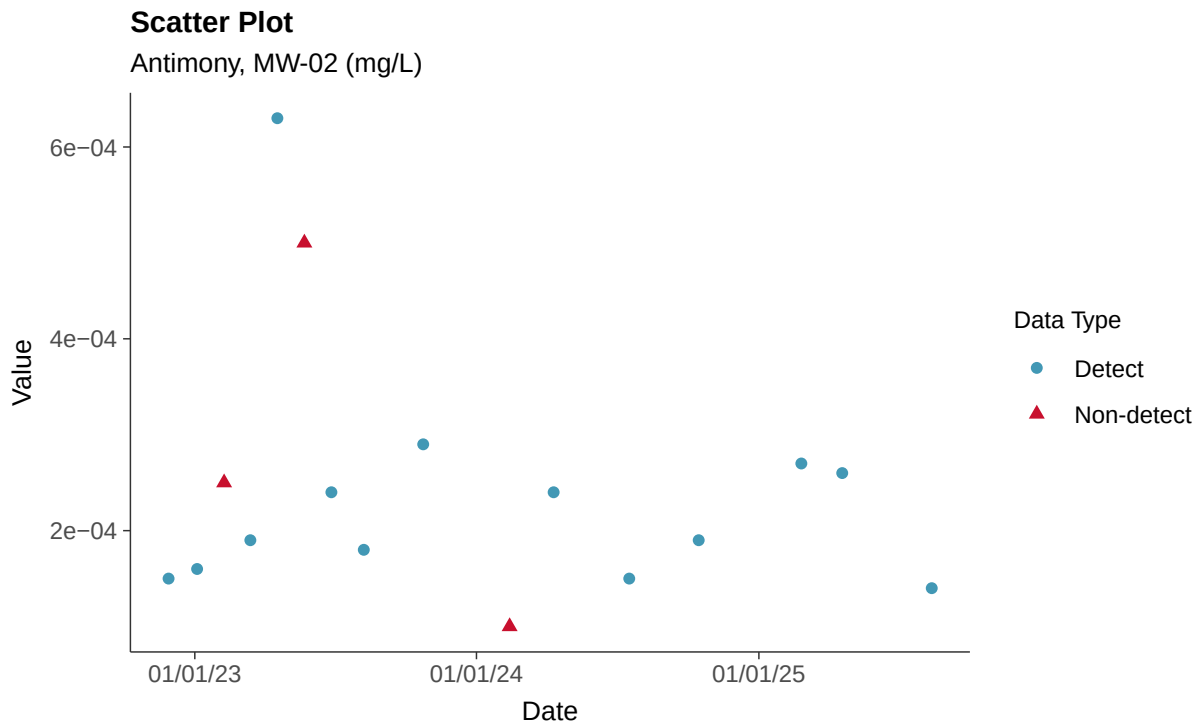
Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-02 (mg/L)



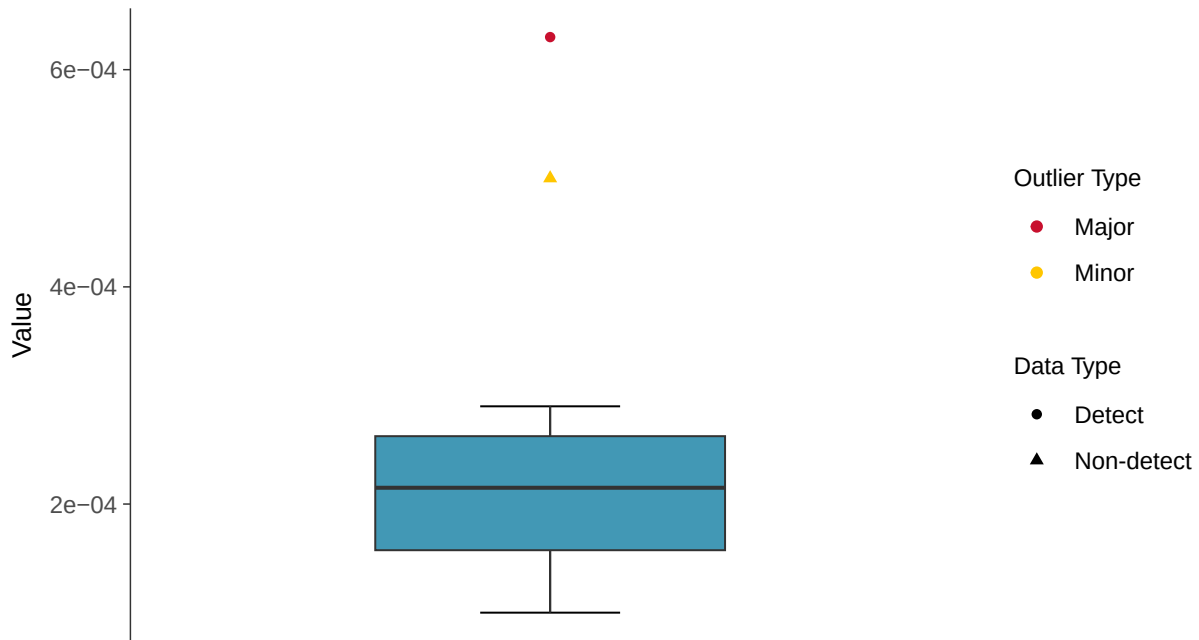
Appendix IV: Antimony, MW-02

ID: 12_2_4_101



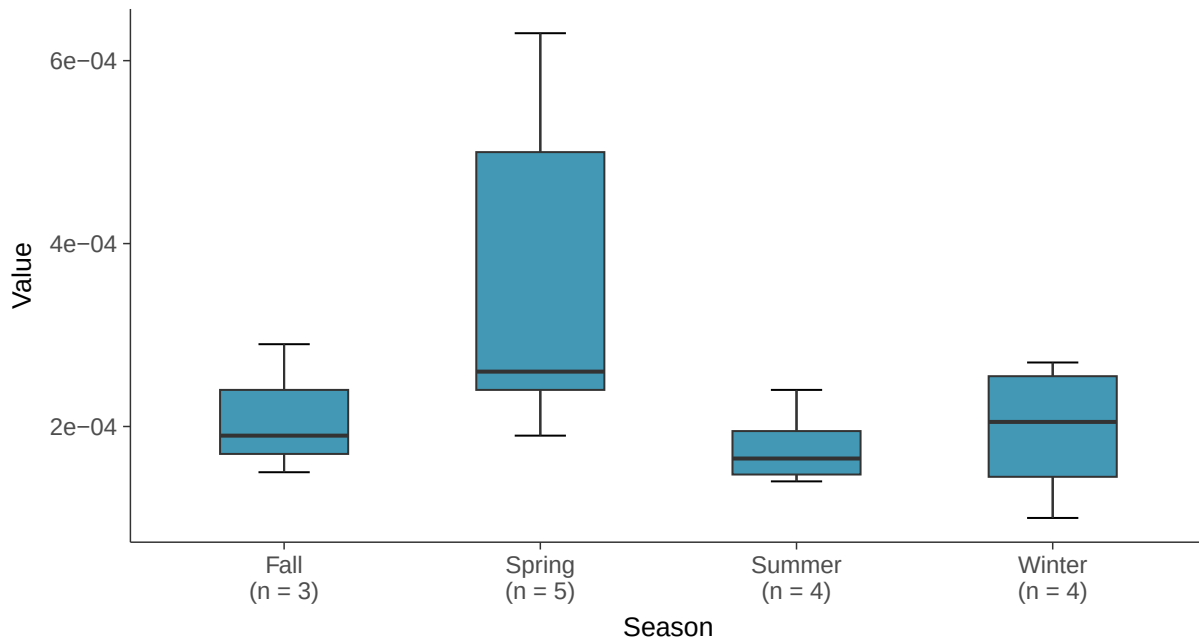
Boxplot

Antimony, MW-02 (mg/L)



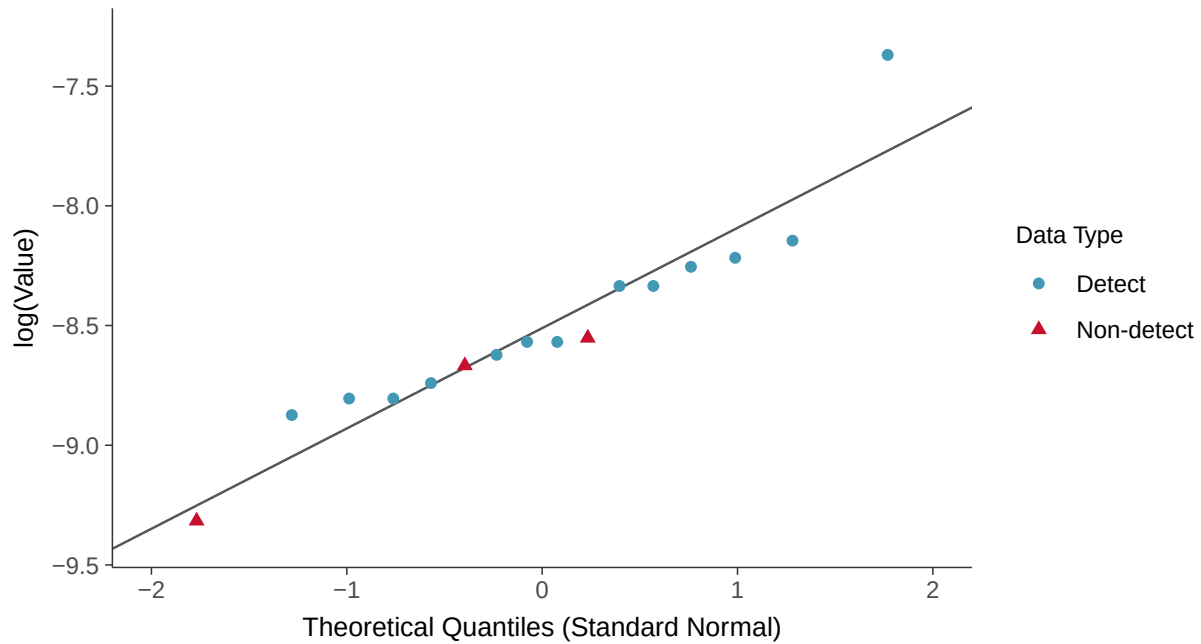
Boxplot by Season

Antimony, MW-02 (mg/L)



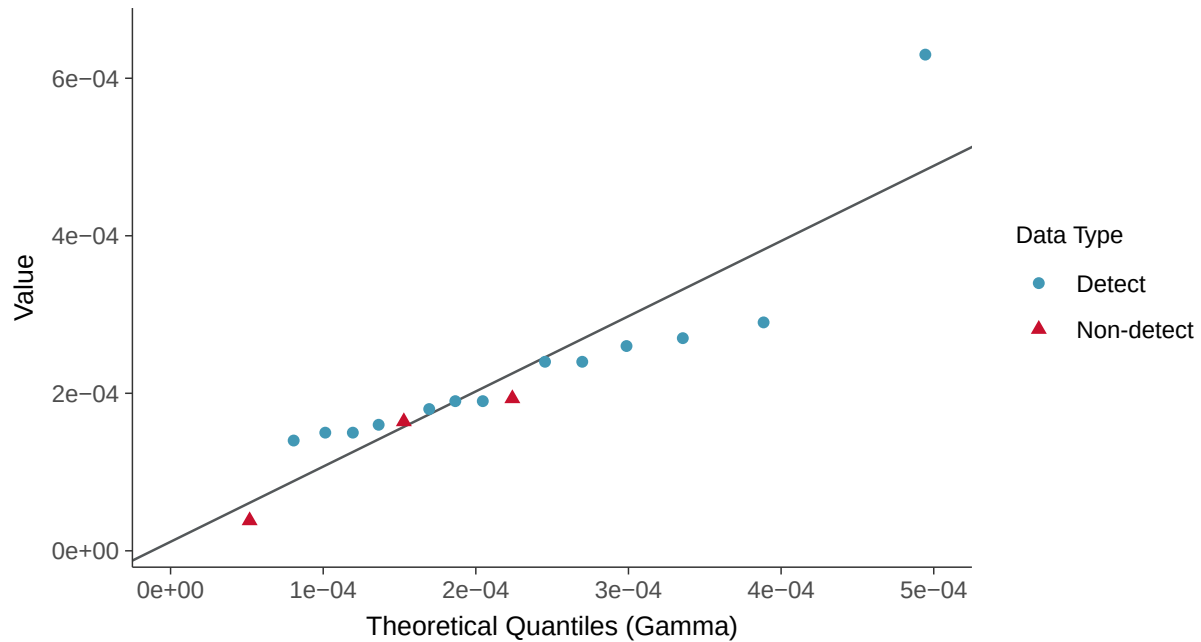
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-02 (mg/L)



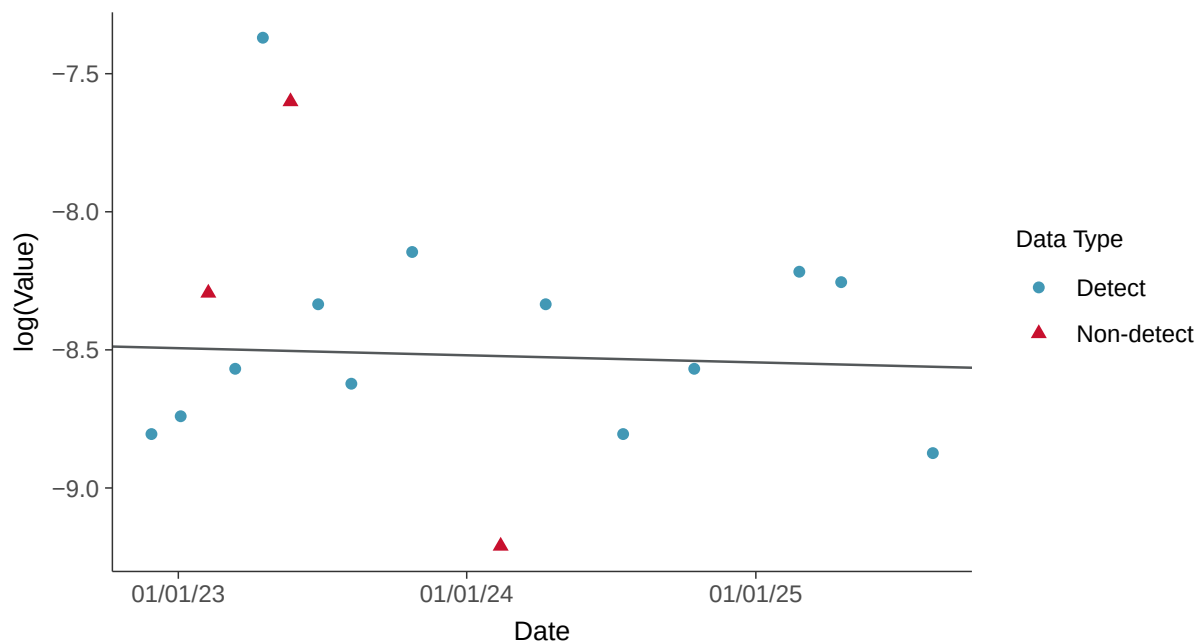
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-02 (mg/L)



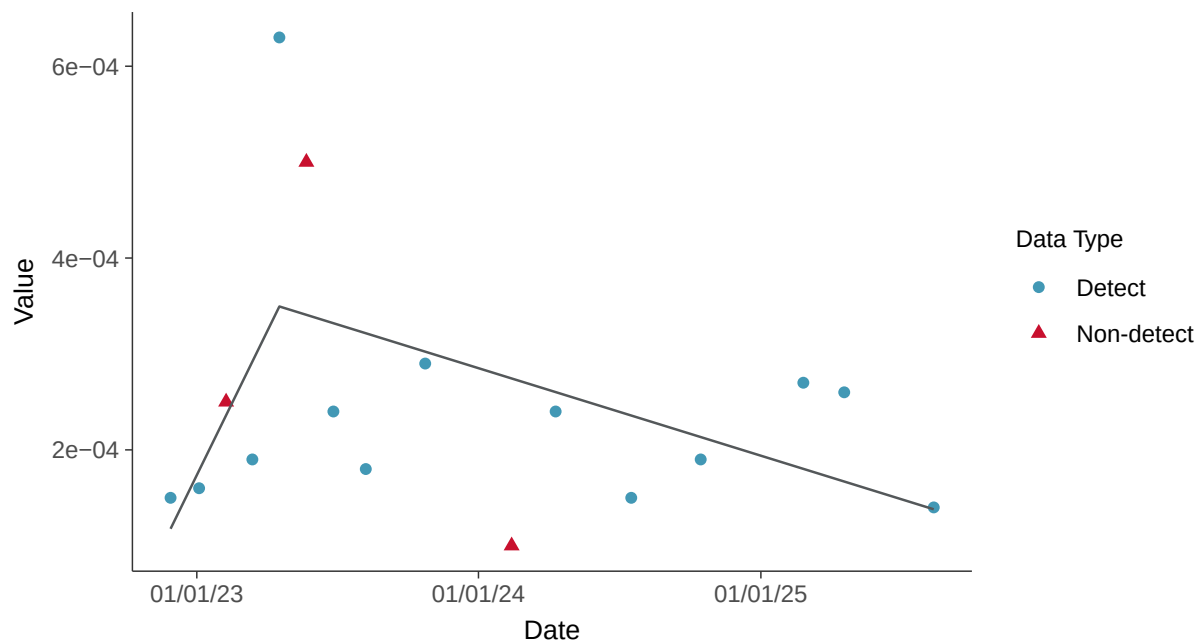
Trend Regression: Lognormal MLE

Antimony, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

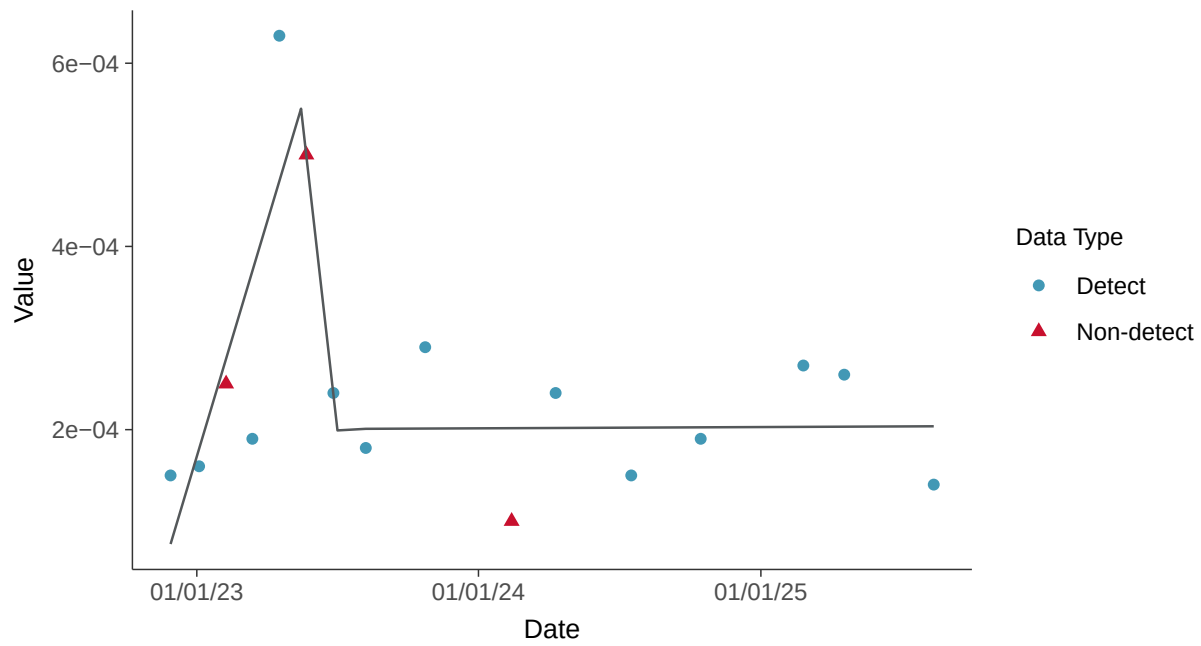
Antimony, MW-02 (mg/L)





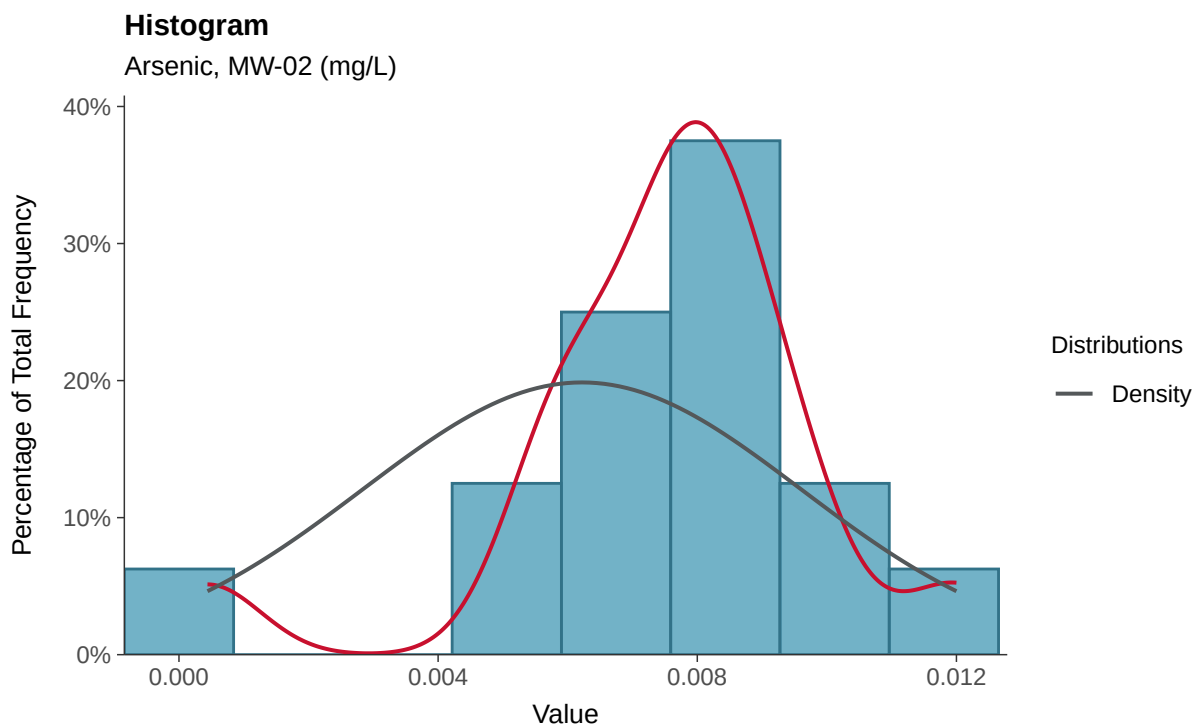
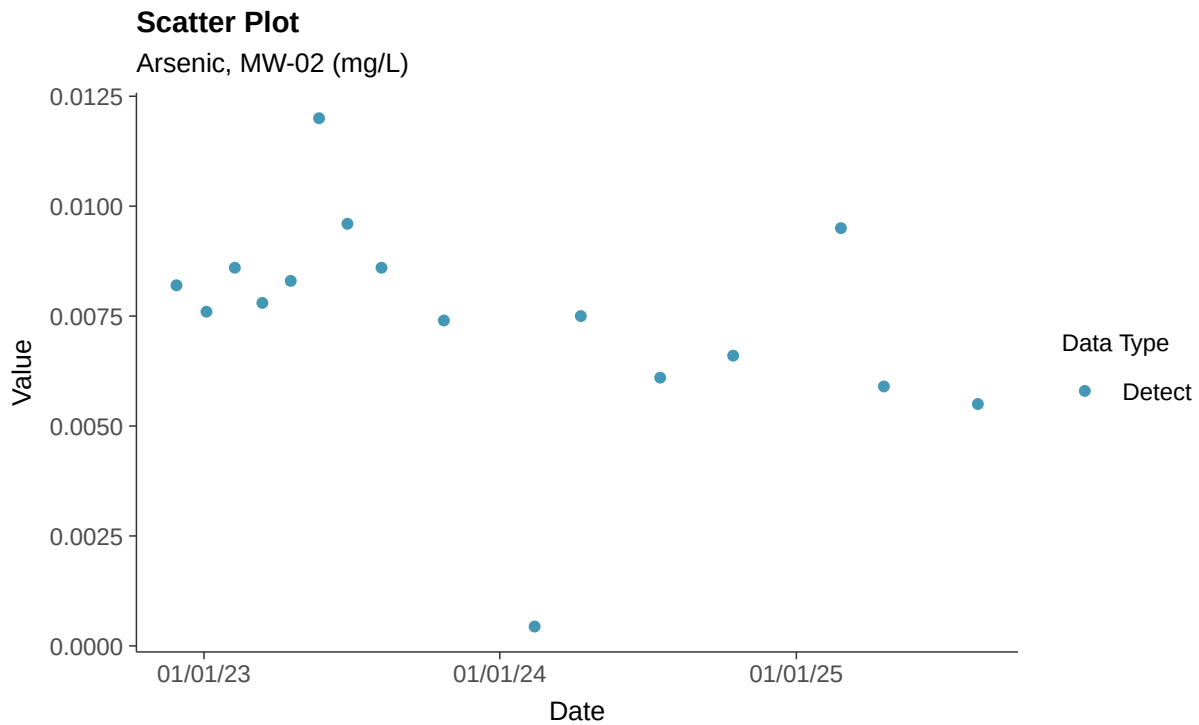
Trend Regression: Piecewise Linear-Linear-Linear

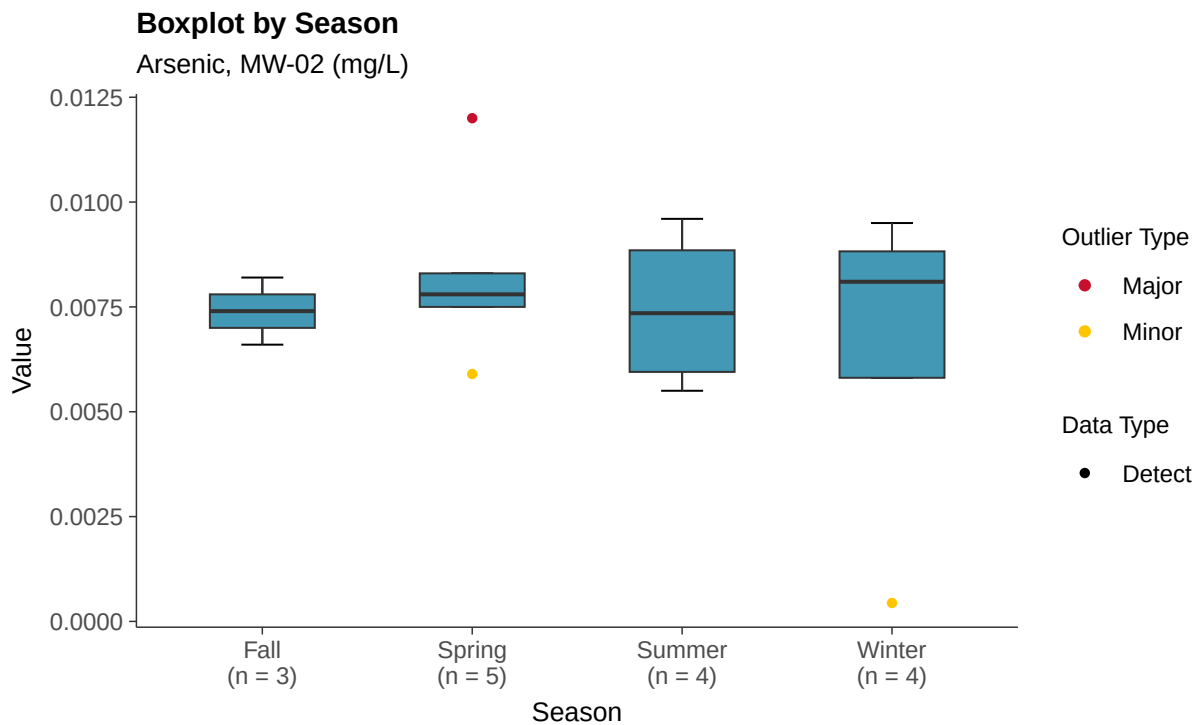
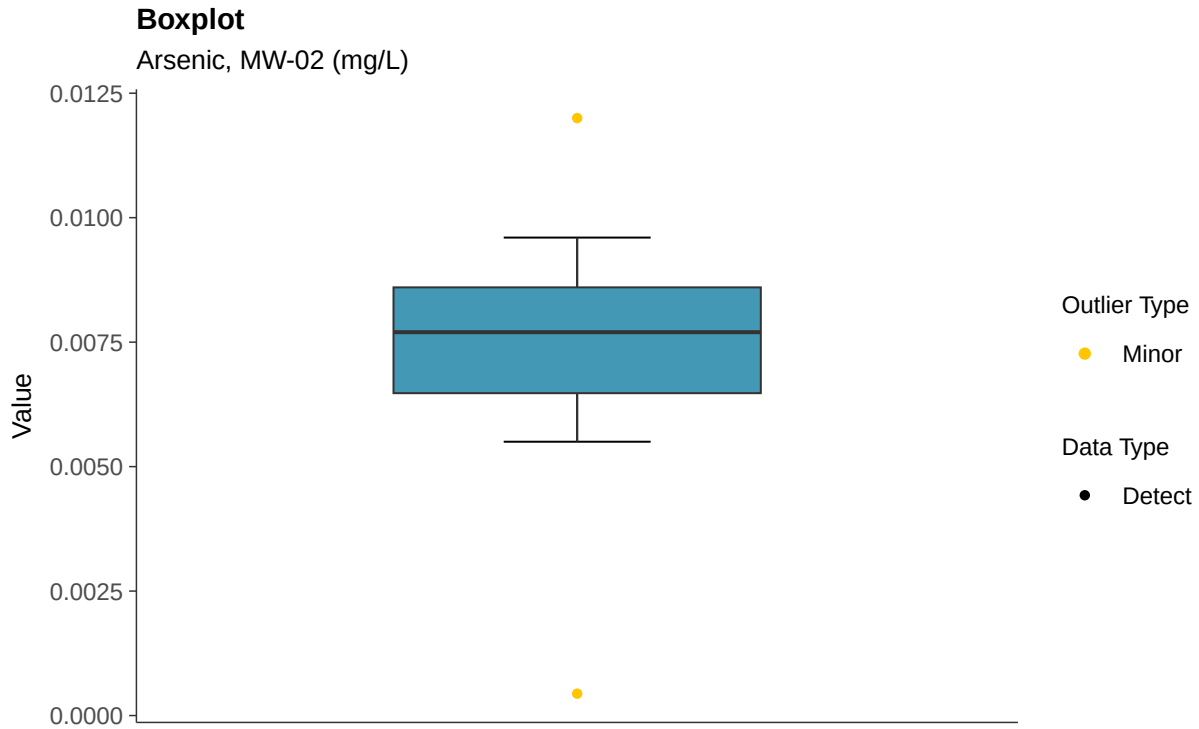
Antimony, MW-02 (mg/L)



Appendix IV: Arsenic, MW-02

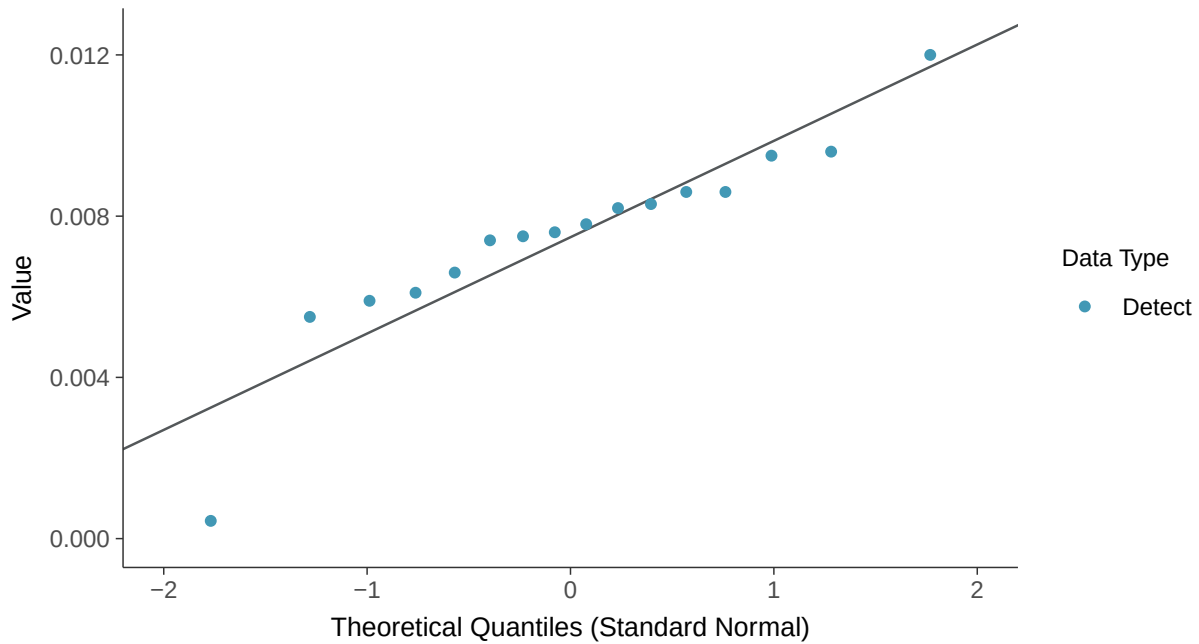
ID: 12_2_4_102





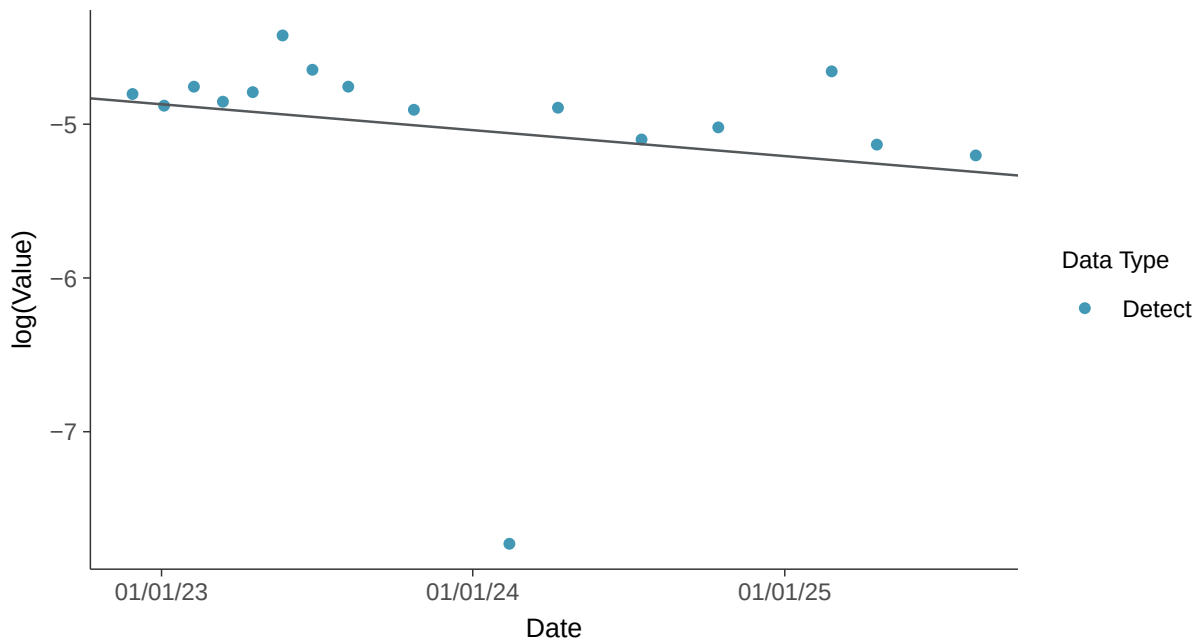
Normal Q-Q plot

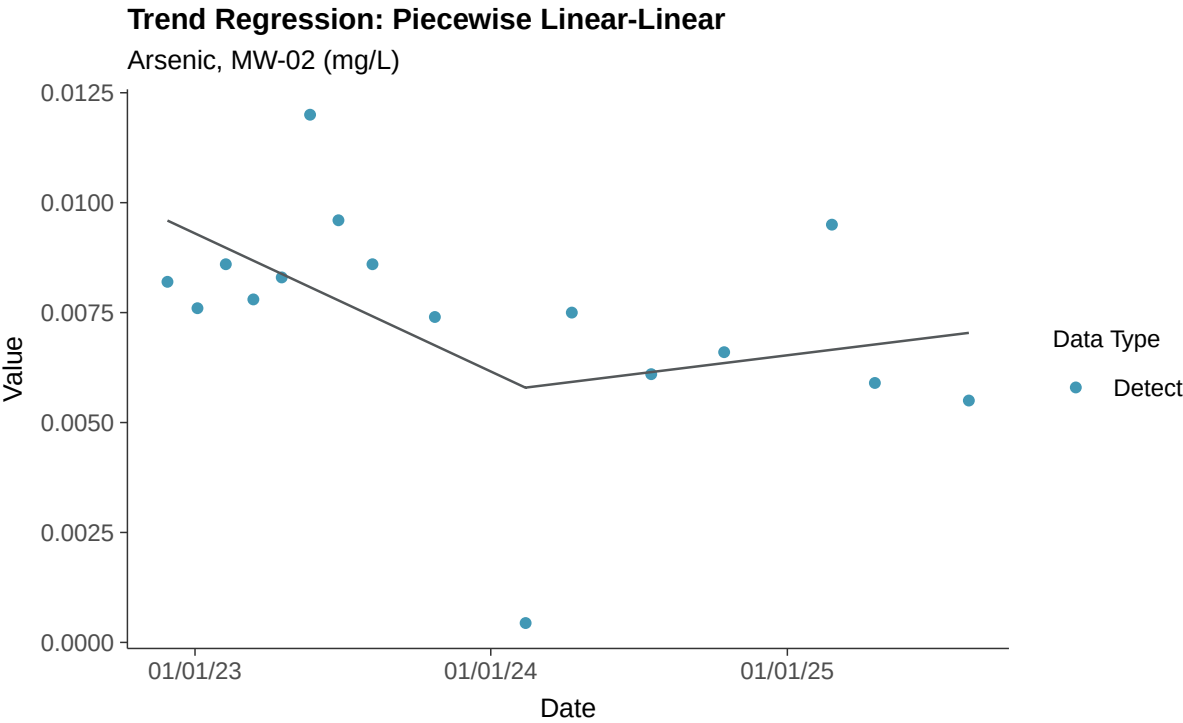
Arsenic, MW-02 (mg/L)



Trend Regression: Lognormal MLE

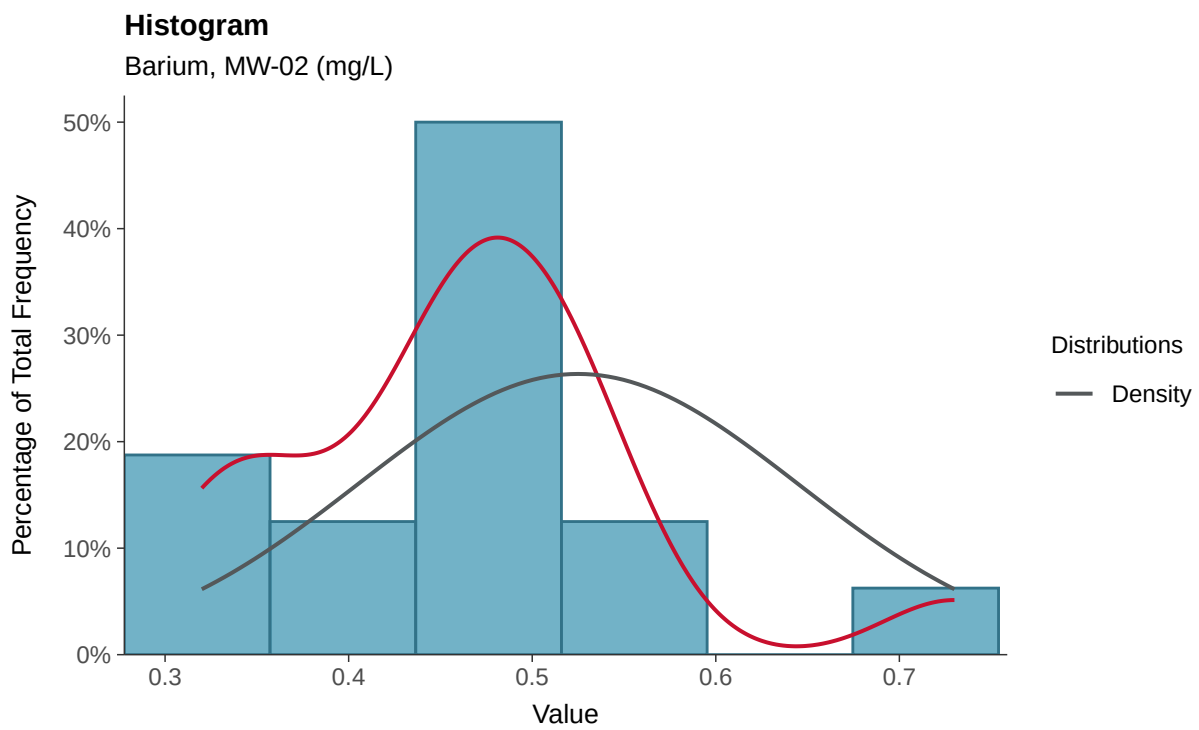
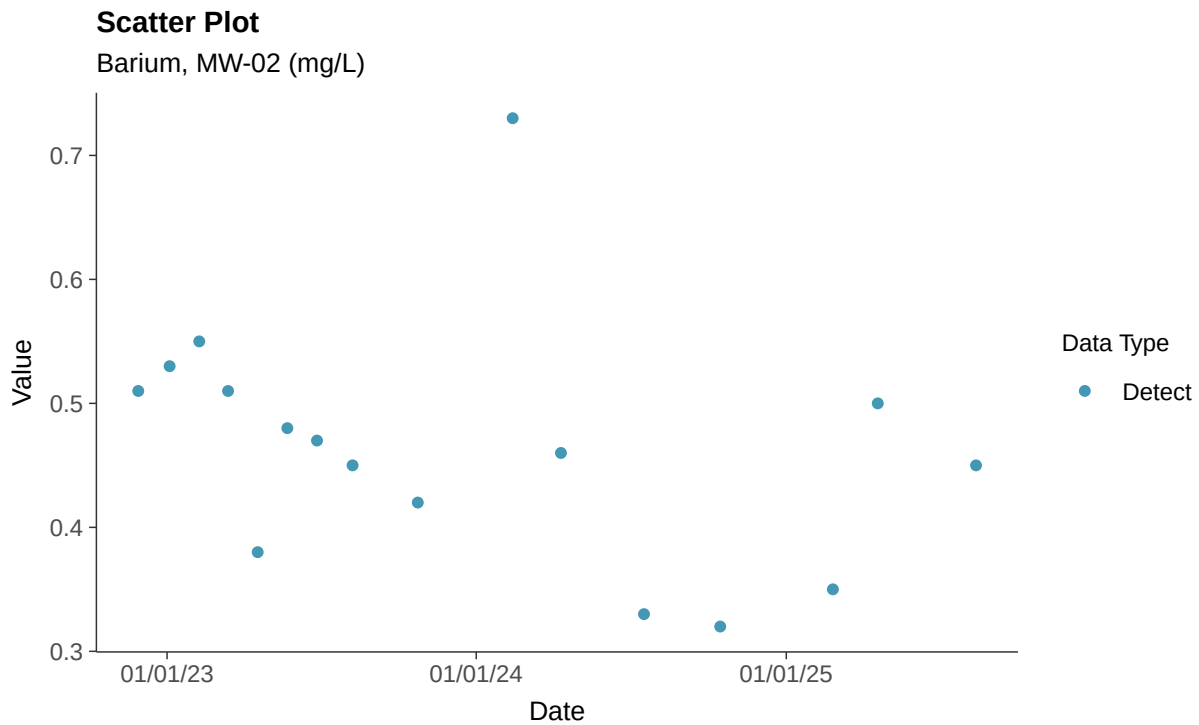
Arsenic, MW-02 (mg/L)





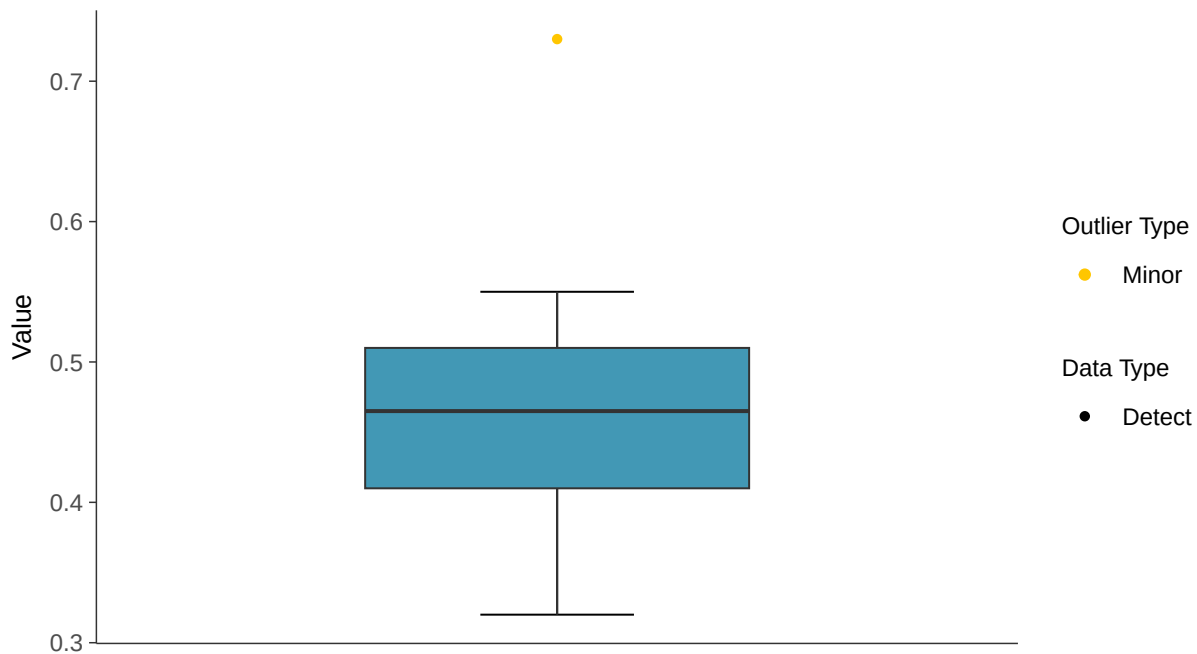
Appendix IV: Barium, MW-02

ID: 12_2_4_103



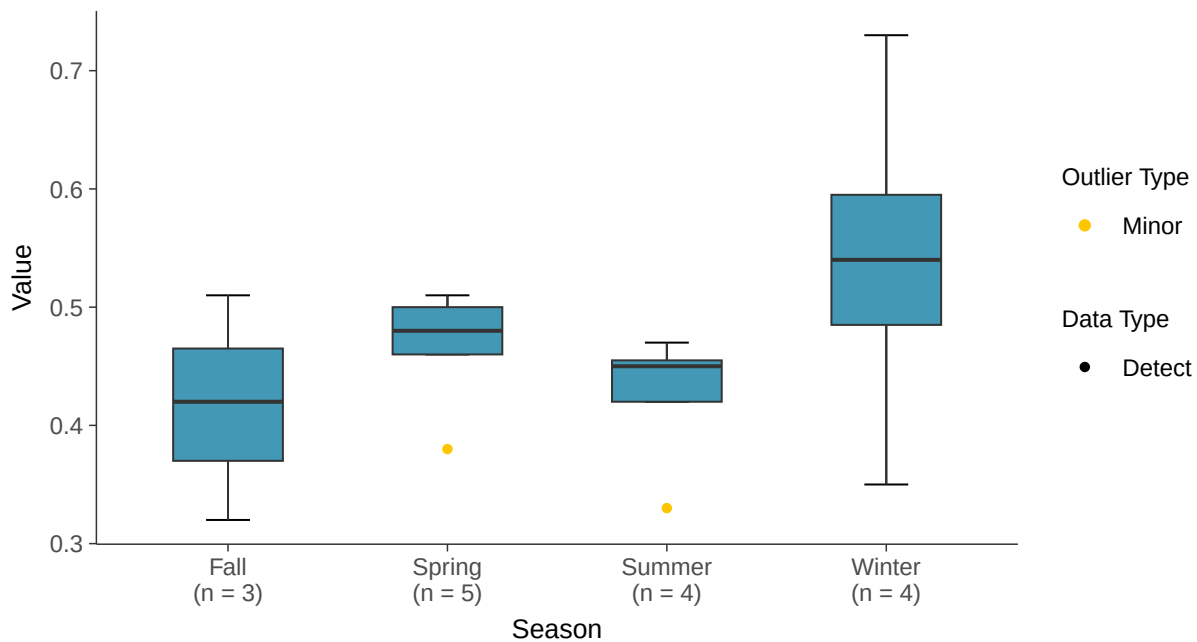
Boxplot

Barium, MW-02 (mg/L)

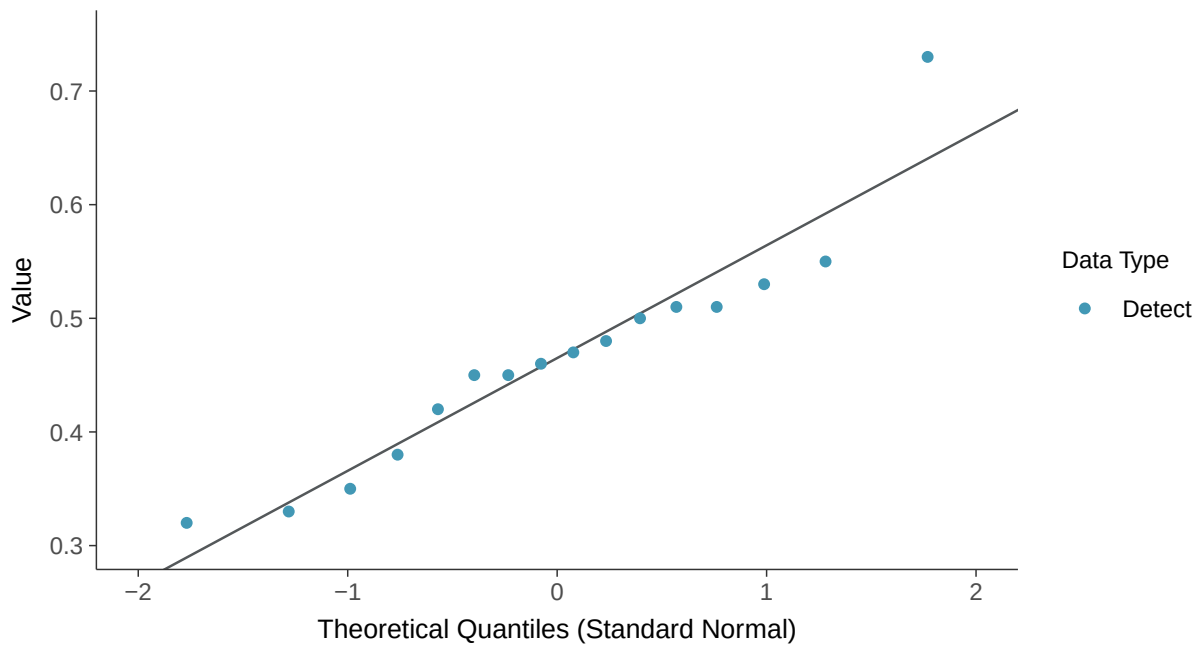


Boxplot by Season

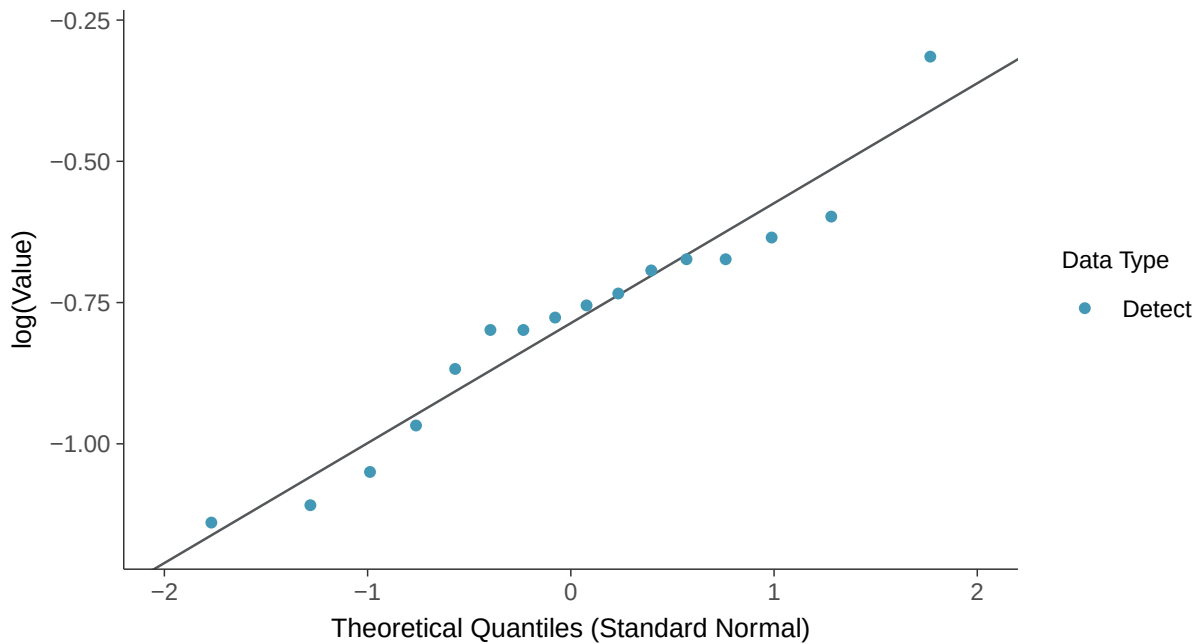
Barium, MW-02 (mg/L)



Normal Q-Q plot
Barium, MW-02 (mg/L)

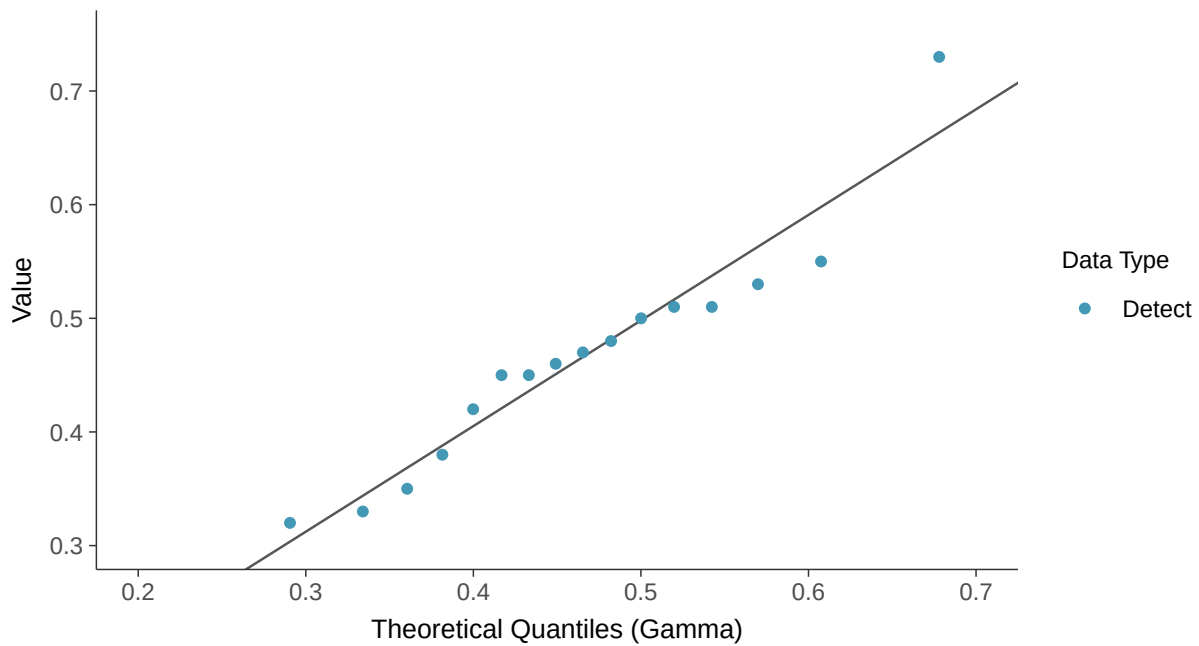


Lognormal Q-Q plot
Barium, MW-02 (mg/L)



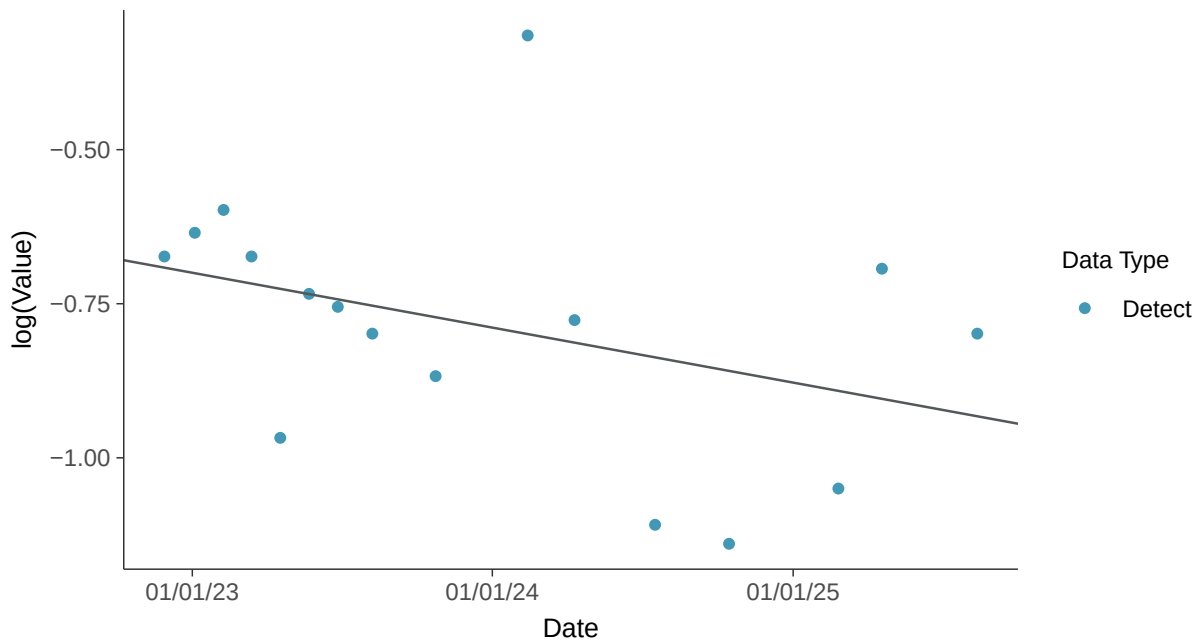
Gamma Q-Q plot

Barium, MW-02 (mg/L)



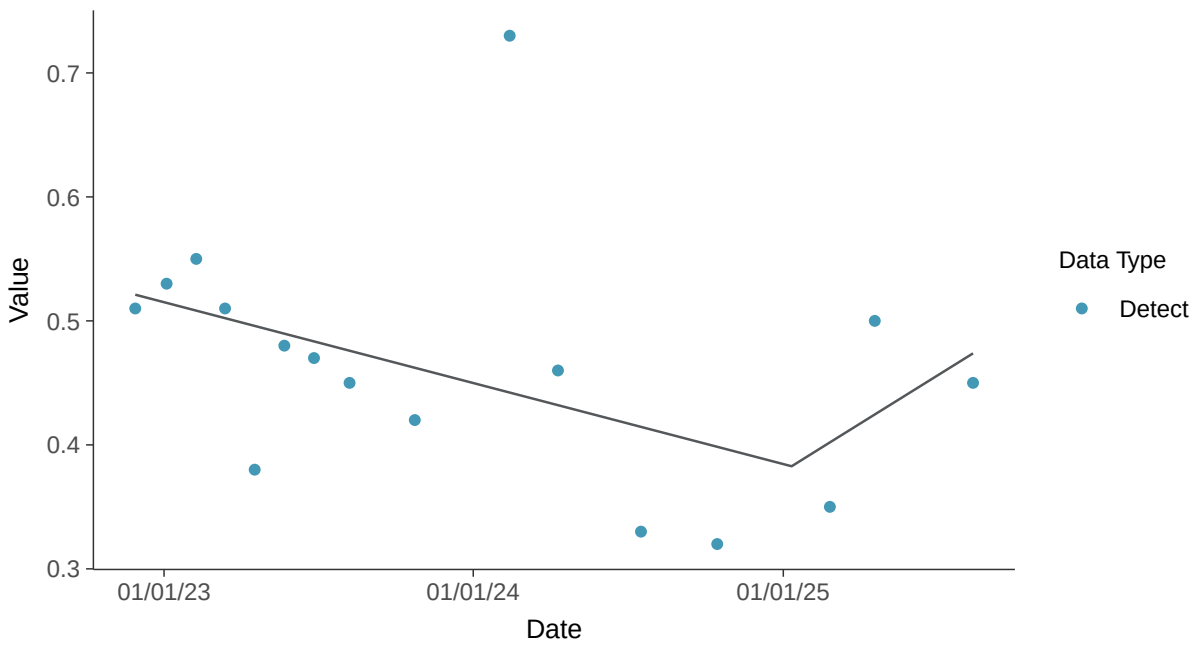
Trend Regression: Lognormal MLE

Barium, MW-02 (mg/L)

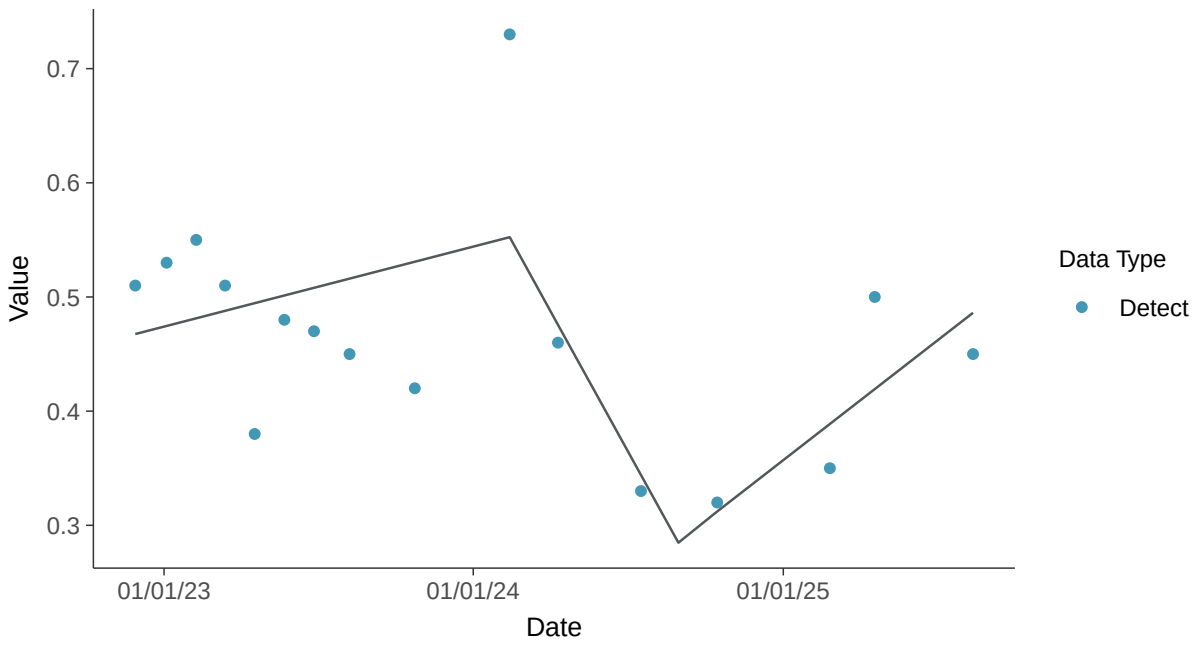




Trend Regression: Piecewise Linear-Linear
Barium, MW-02 (mg/L)

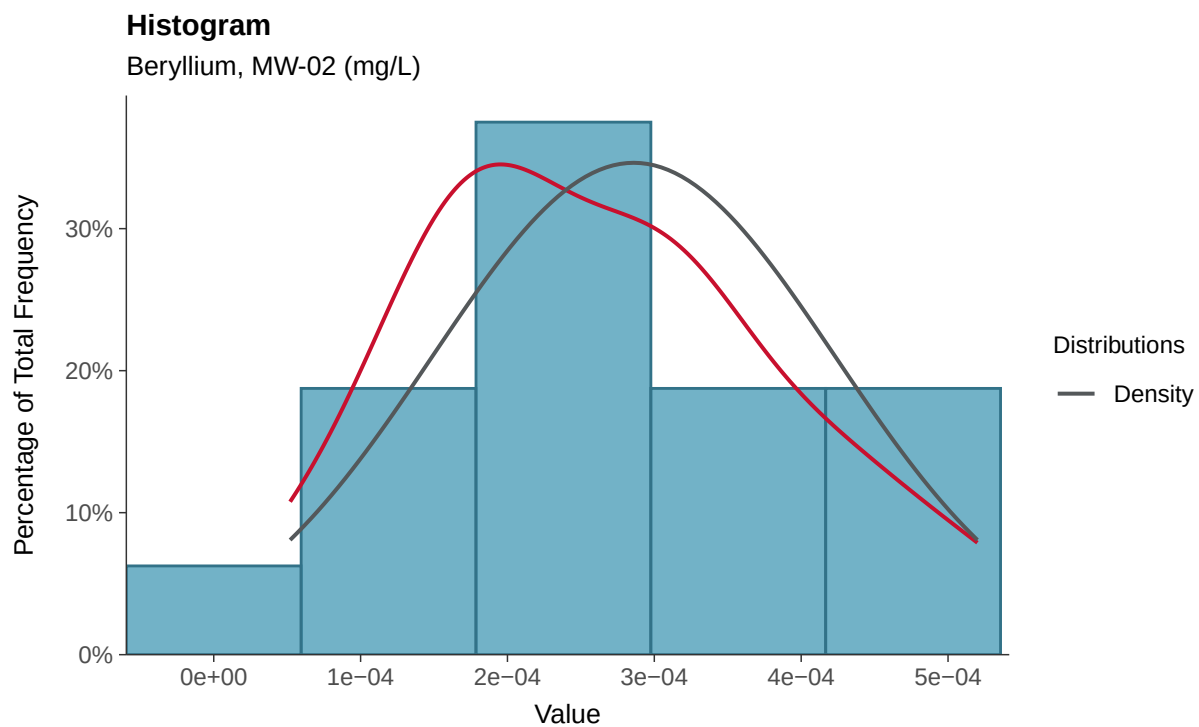
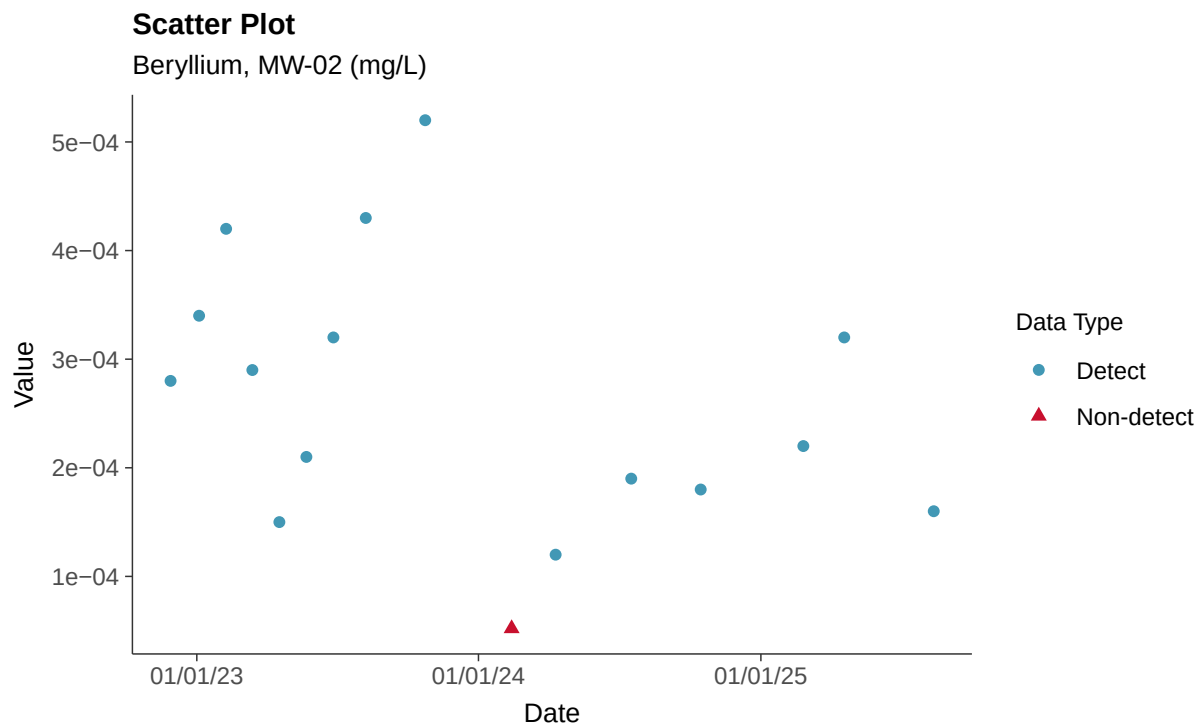


Trend Regression: Piecewise Linear-Linear-Linear
Barium, MW-02 (mg/L)



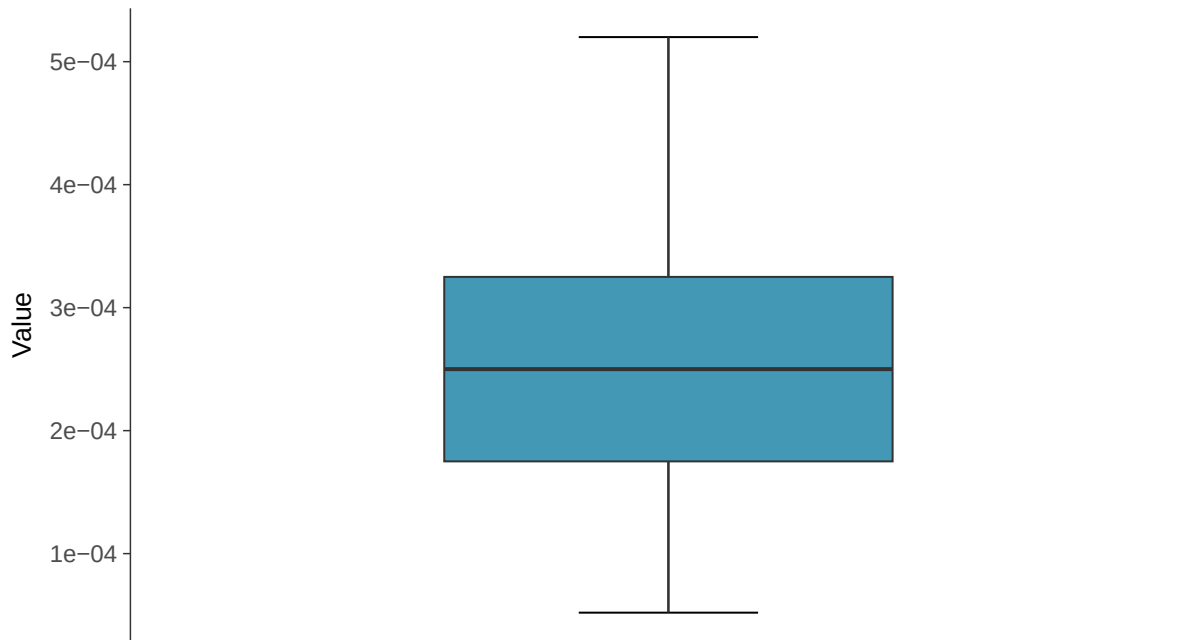
Appendix IV: Beryllium, MW-02

ID: 12_2_4_104



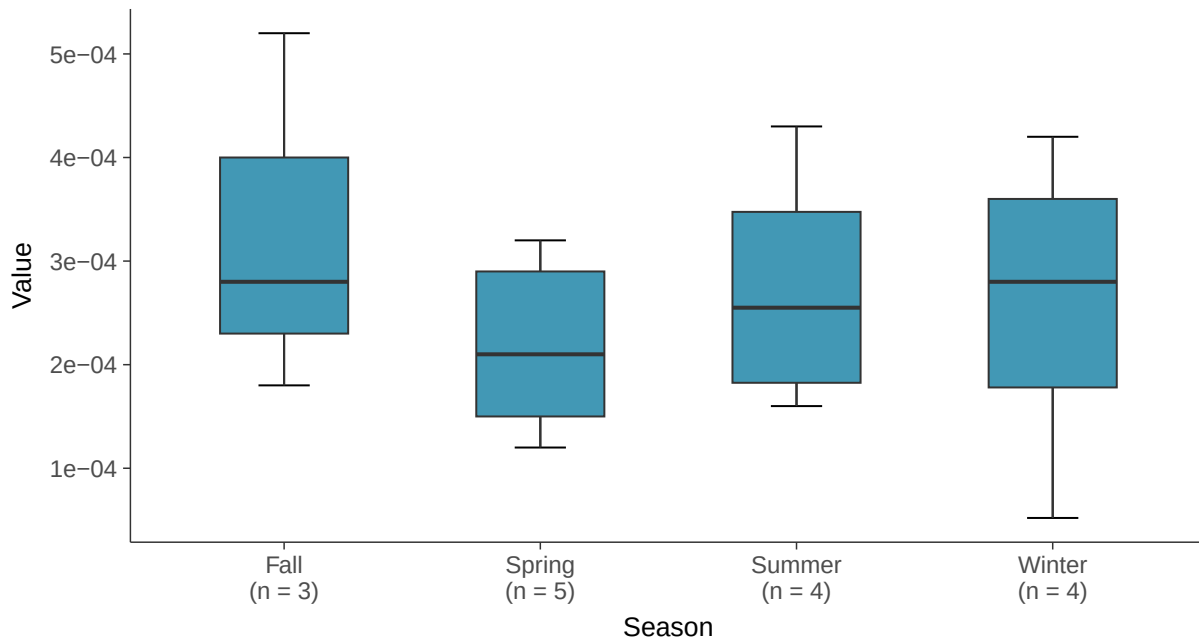
Boxplot

Beryllium, MW-02 (mg/L)



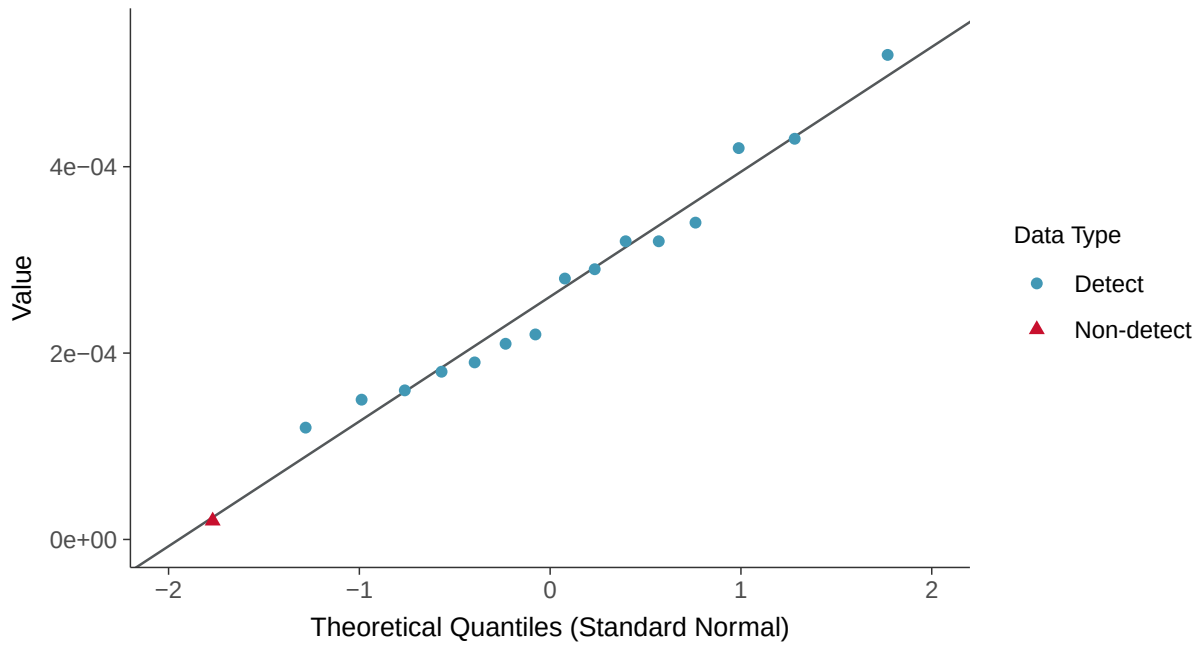
Boxplot by Season

Beryllium, MW-02 (mg/L)



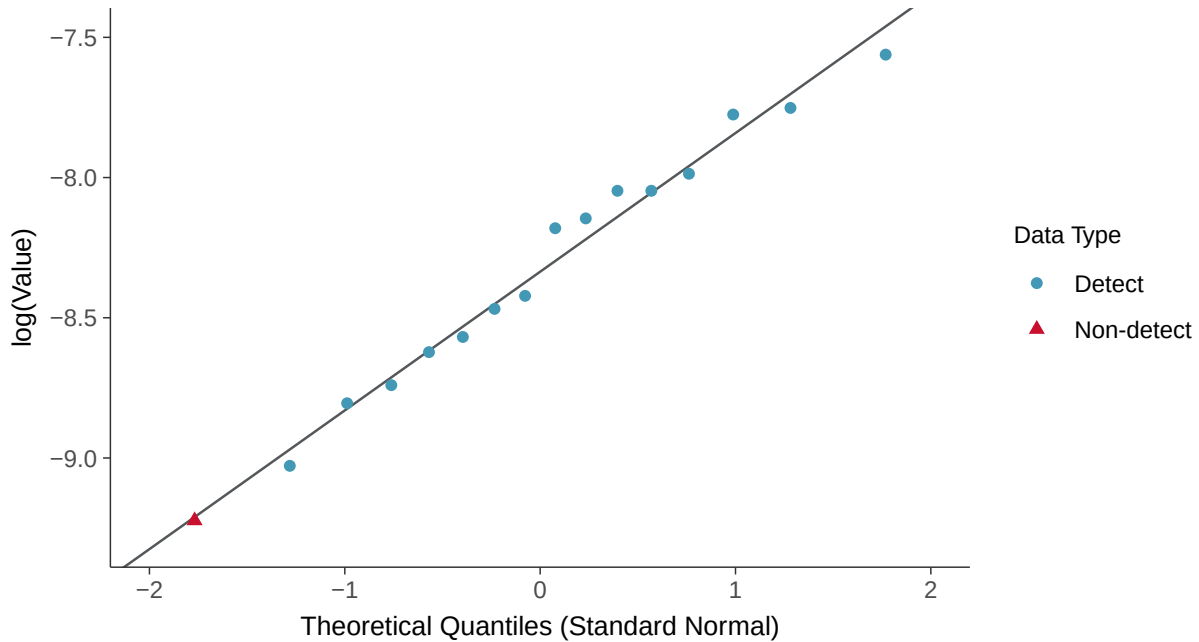
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



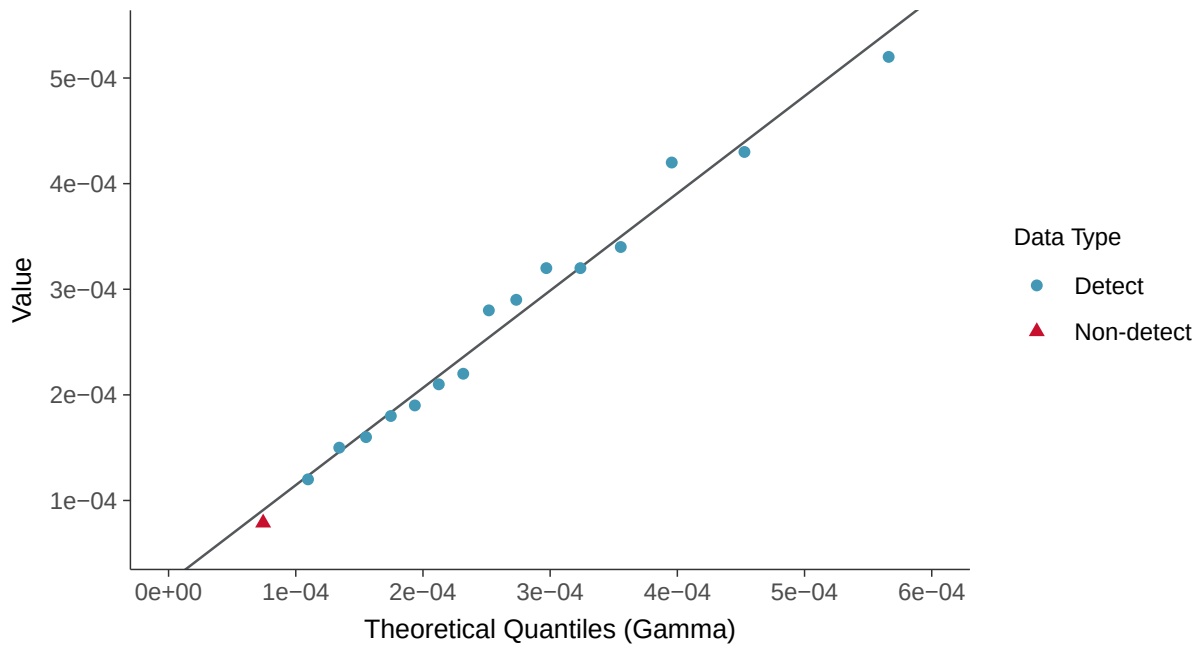
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



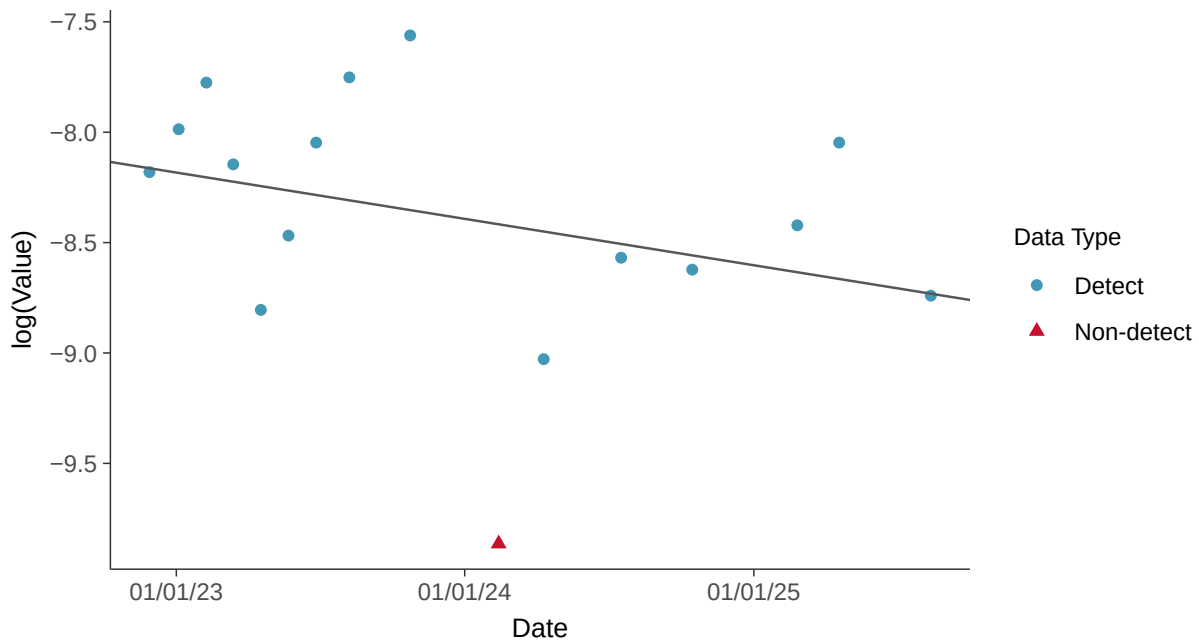
Gamma Q-Q plot using ROS Imputed Estimates

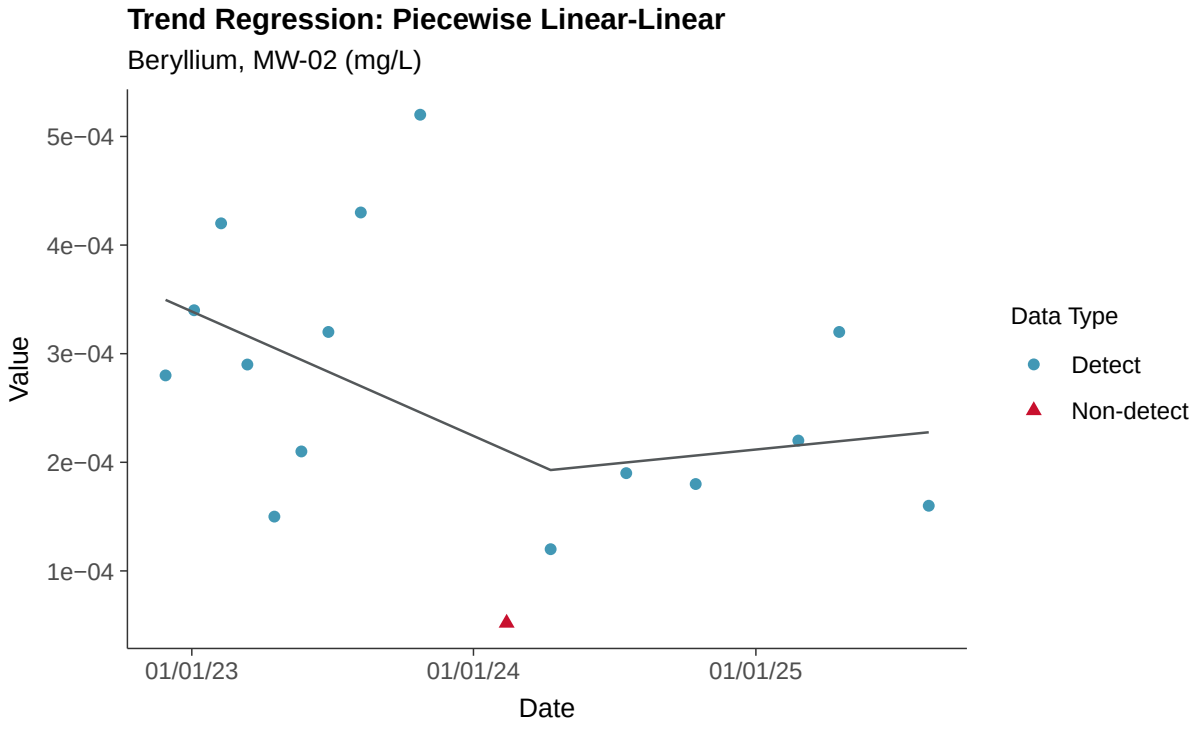
Beryllium, MW-02 (mg/L)



Trend Regression: Lognormal MLE

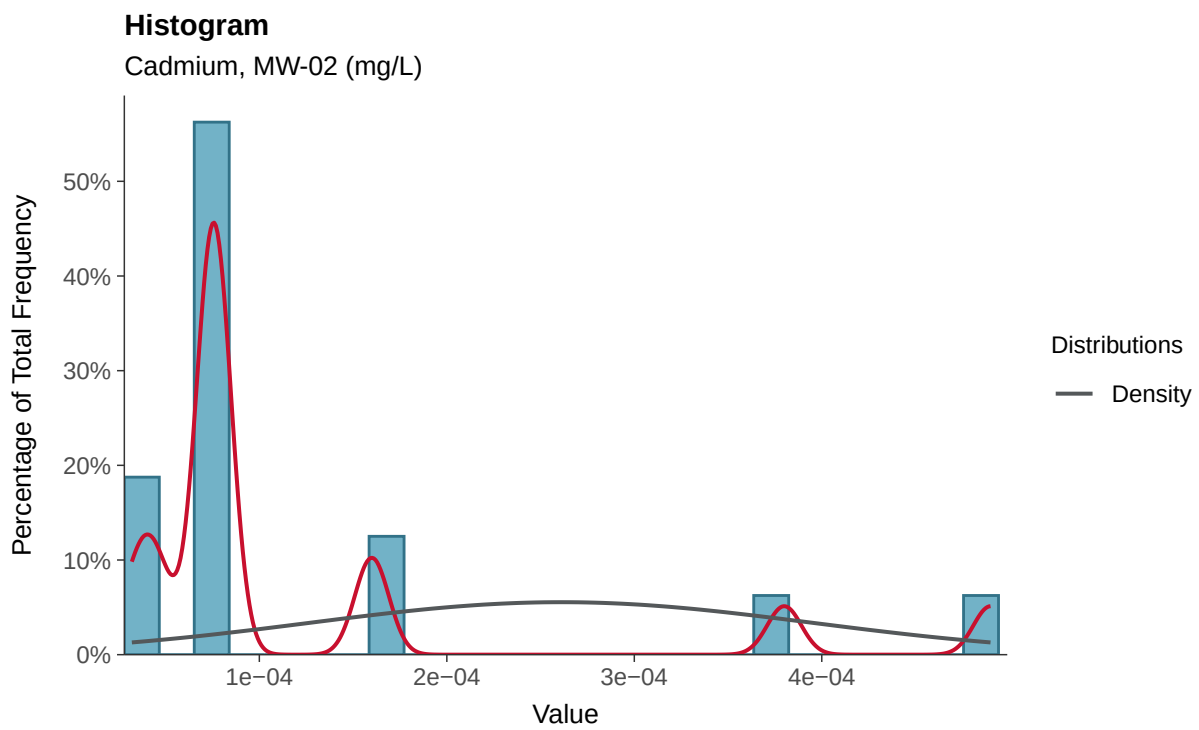
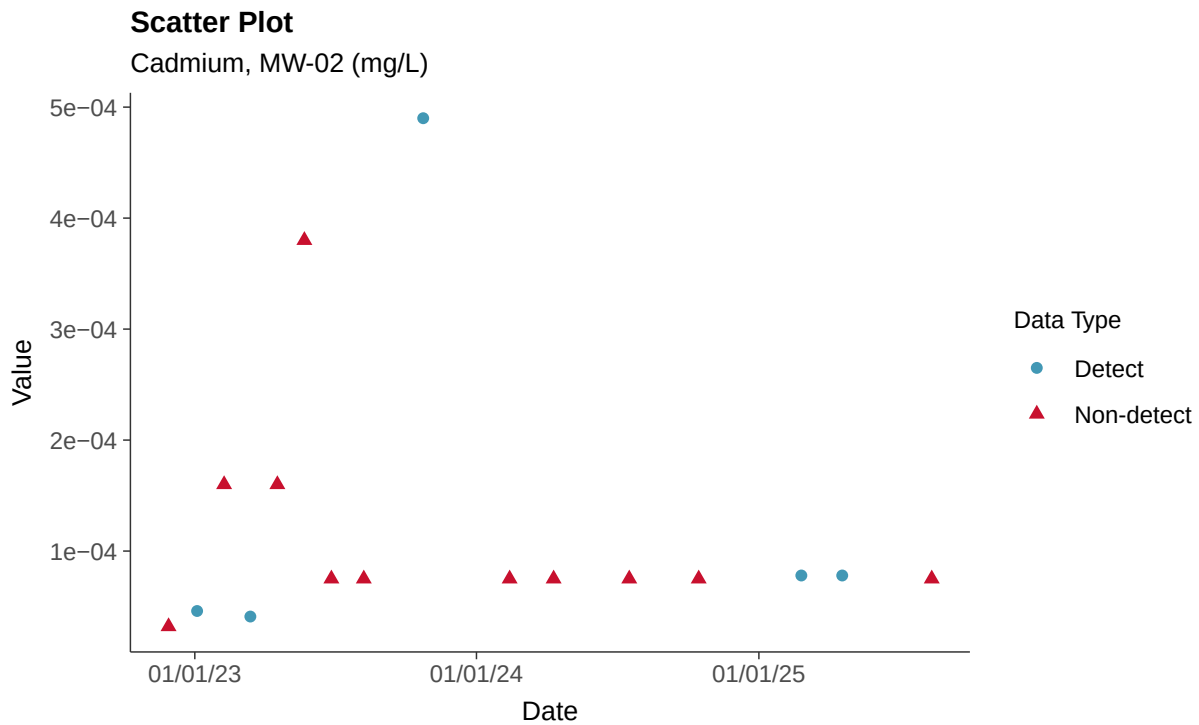
Beryllium, MW-02 (mg/L)





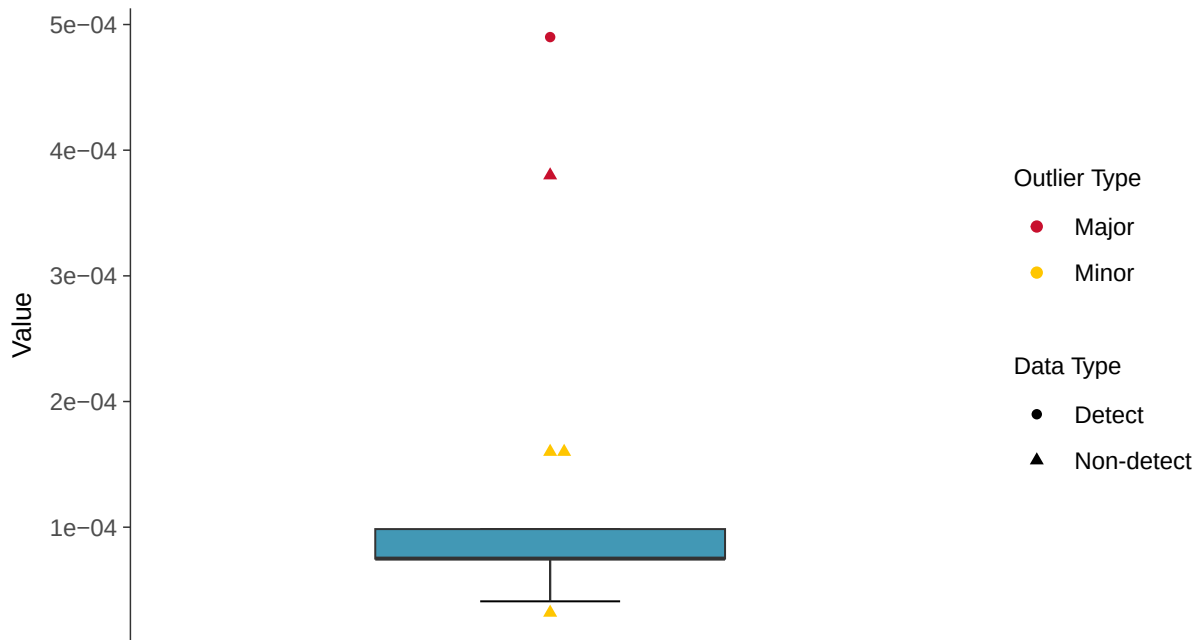
Appendix IV: Cadmium, MW-02

ID: 12_2_4_106



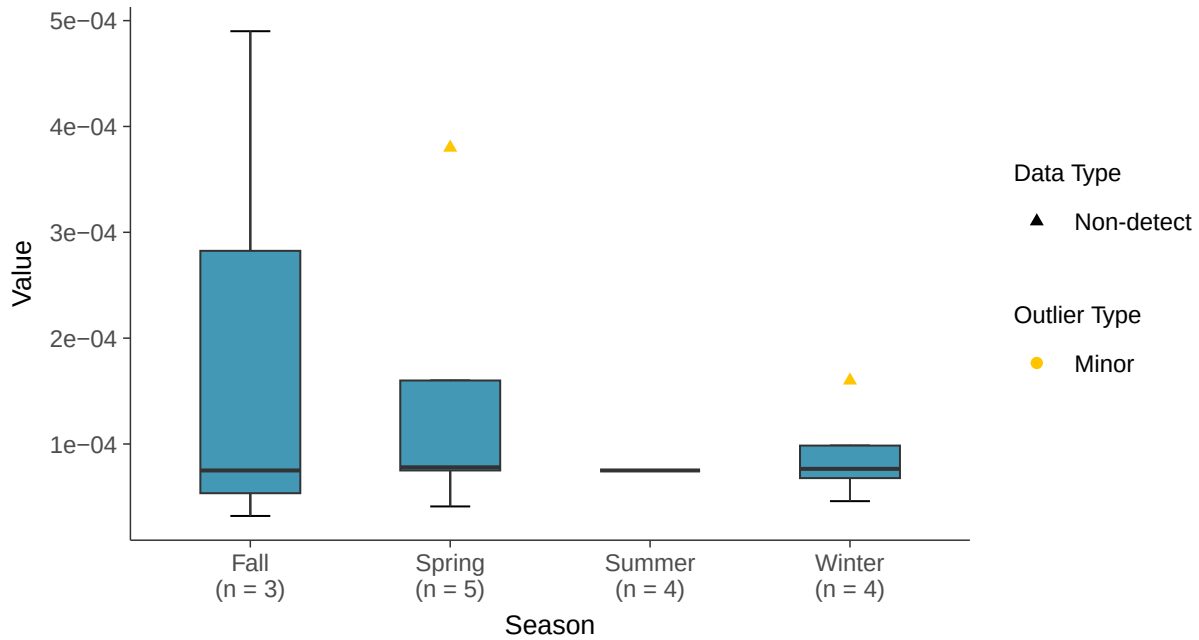
Boxplot

Cadmium, MW-02 (mg/L)



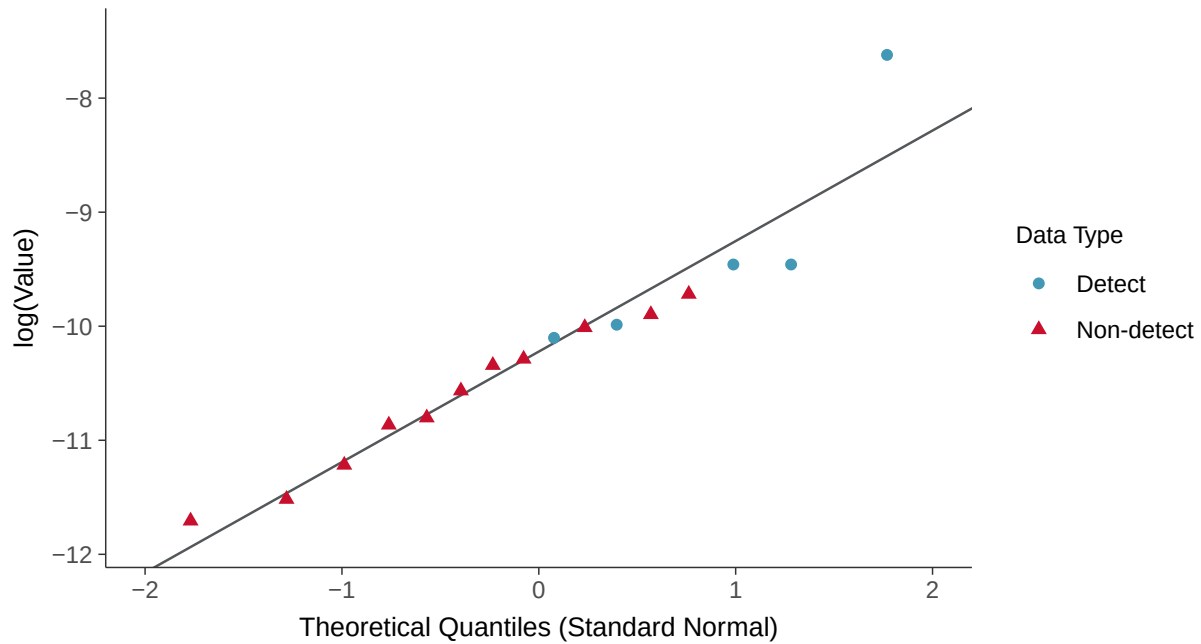
Boxplot by Season

Cadmium, MW-02 (mg/L)



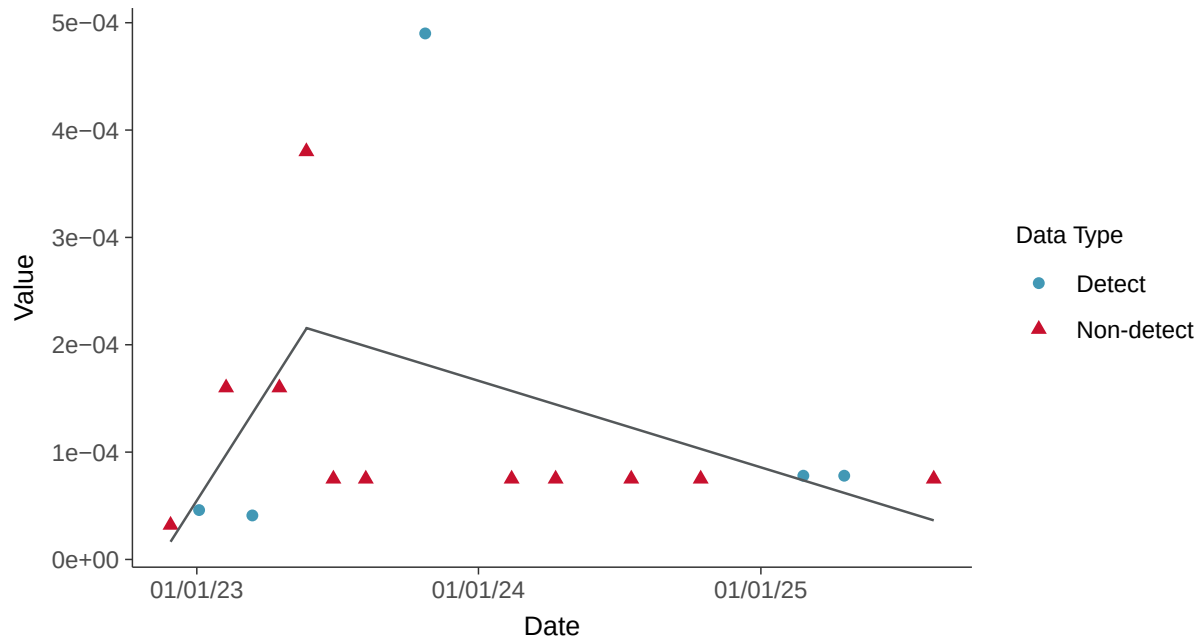
Lognormal Q-Q plot using ROS Imputed Estimates

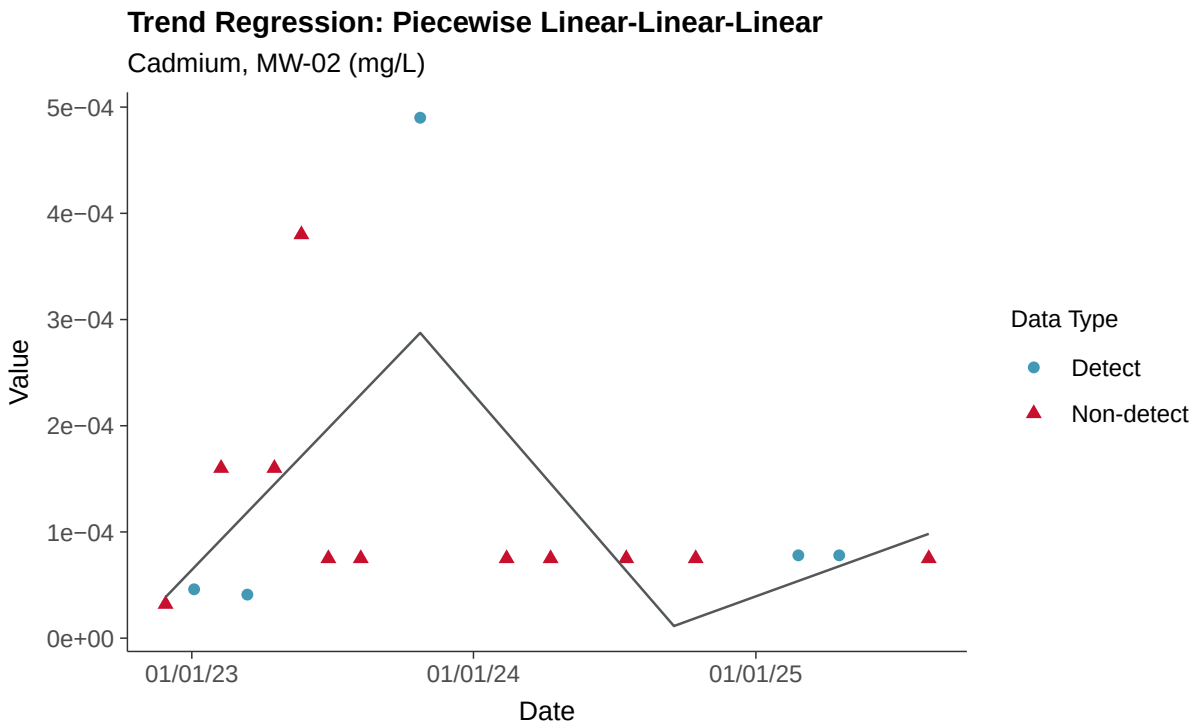
Cadmium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-02 (mg/L)



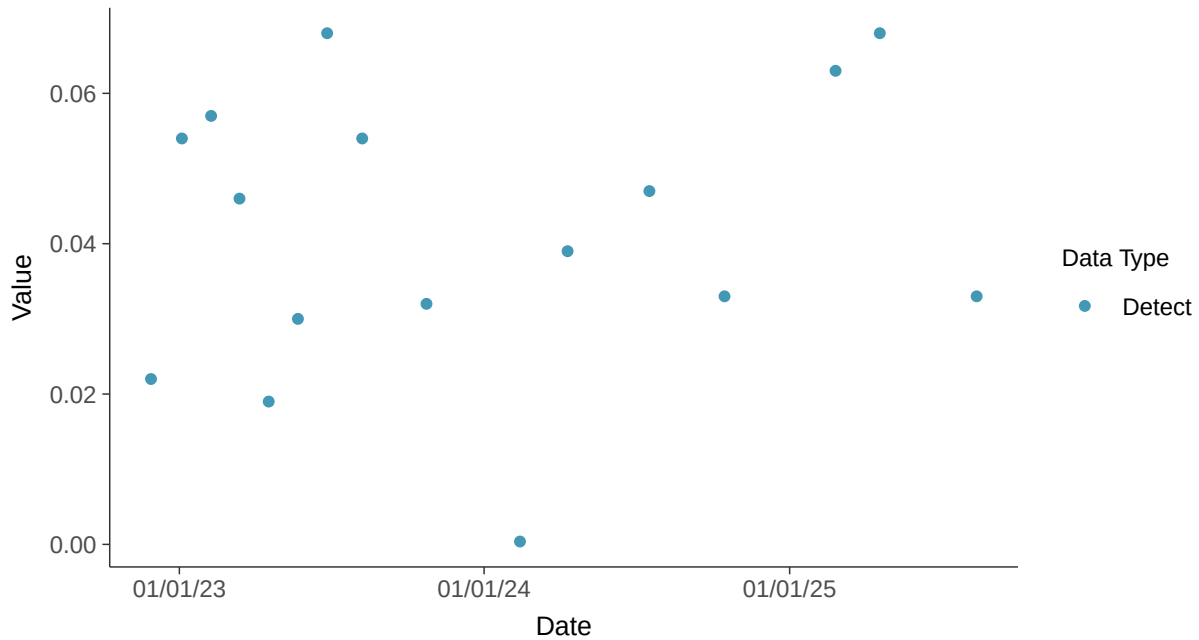


Appendix IV: Chromium, Total, MW-02

ID: 12_2_4_109

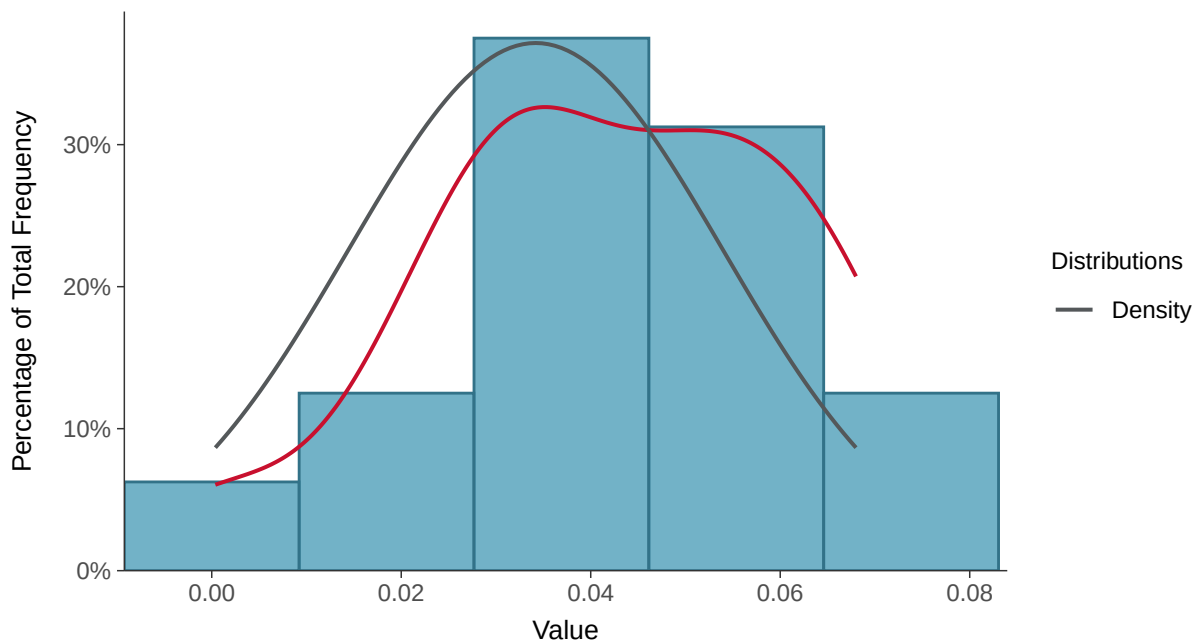
Scatter Plot

Chromium, Total, MW-02 (mg/L)



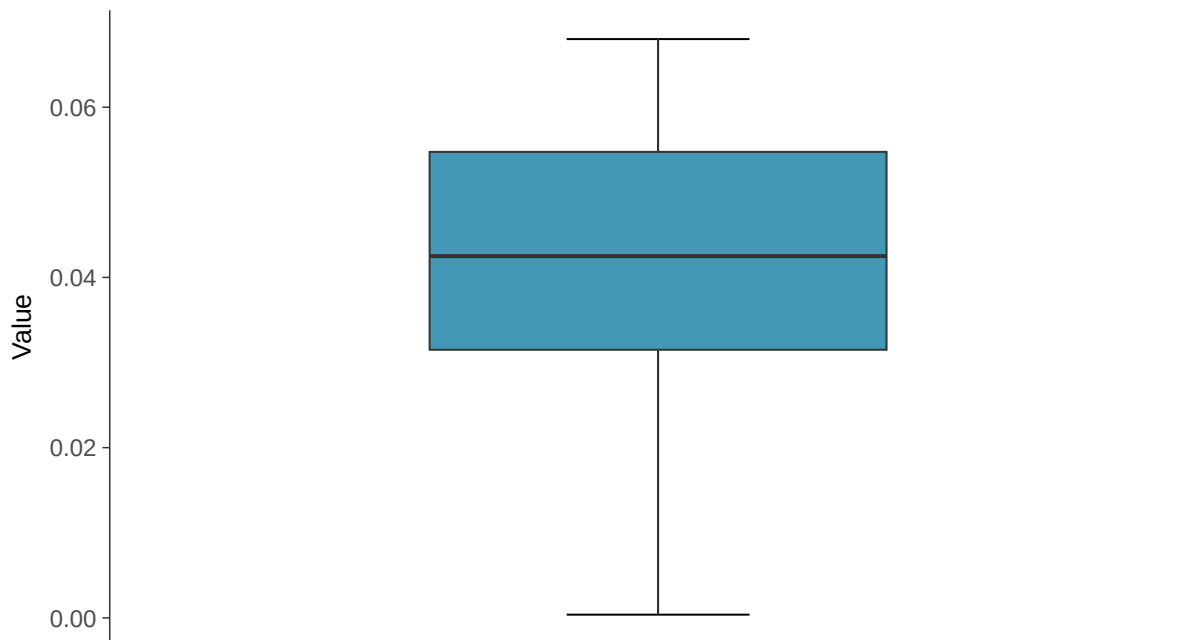
Histogram

Chromium, Total, MW-02 (mg/L)



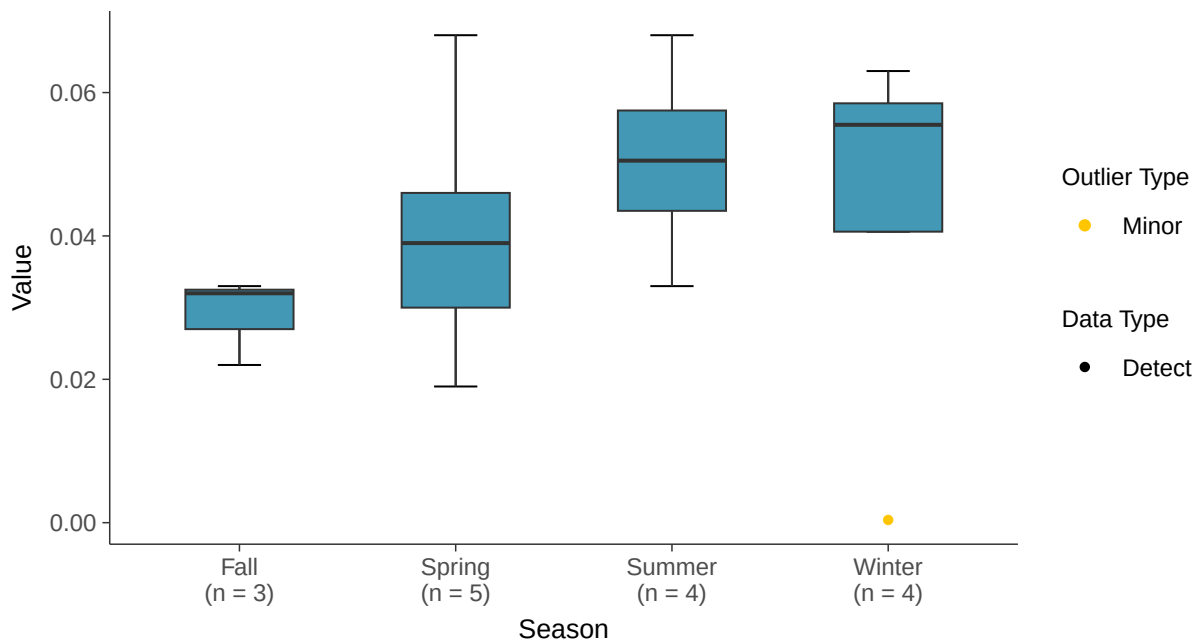
Boxplot

Chromium, Total, MW-02 (mg/L)



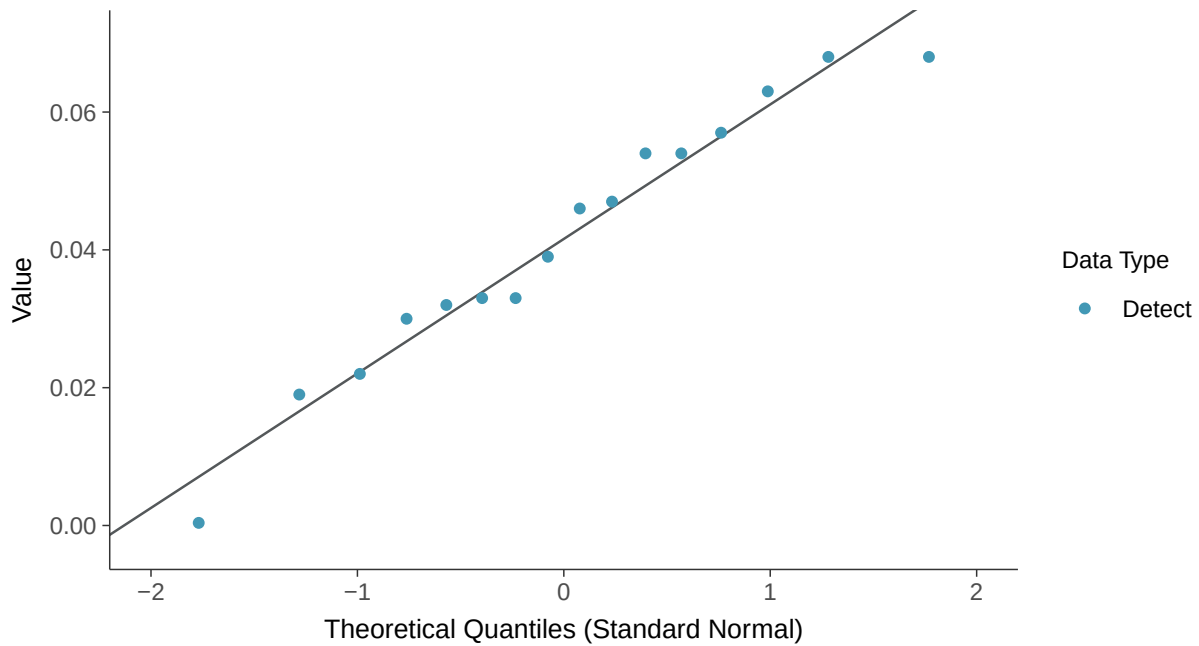
Boxplot by Season

Chromium, Total, MW-02 (mg/L)



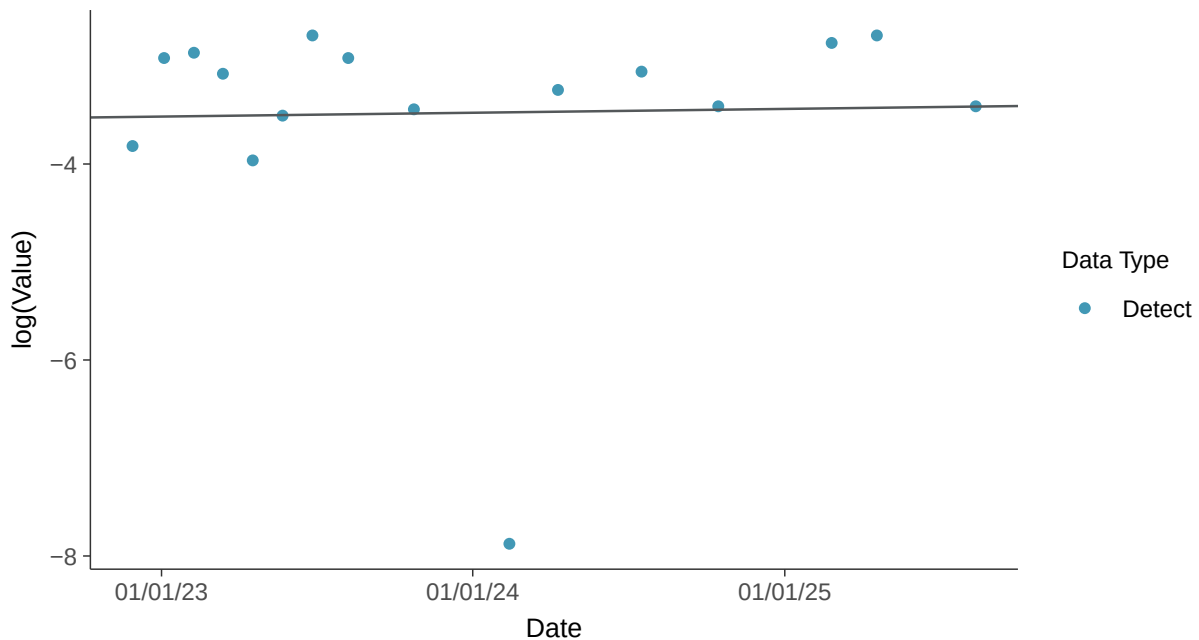
Normal Q-Q plot

Chromium, Total, MW-02 (mg/L)



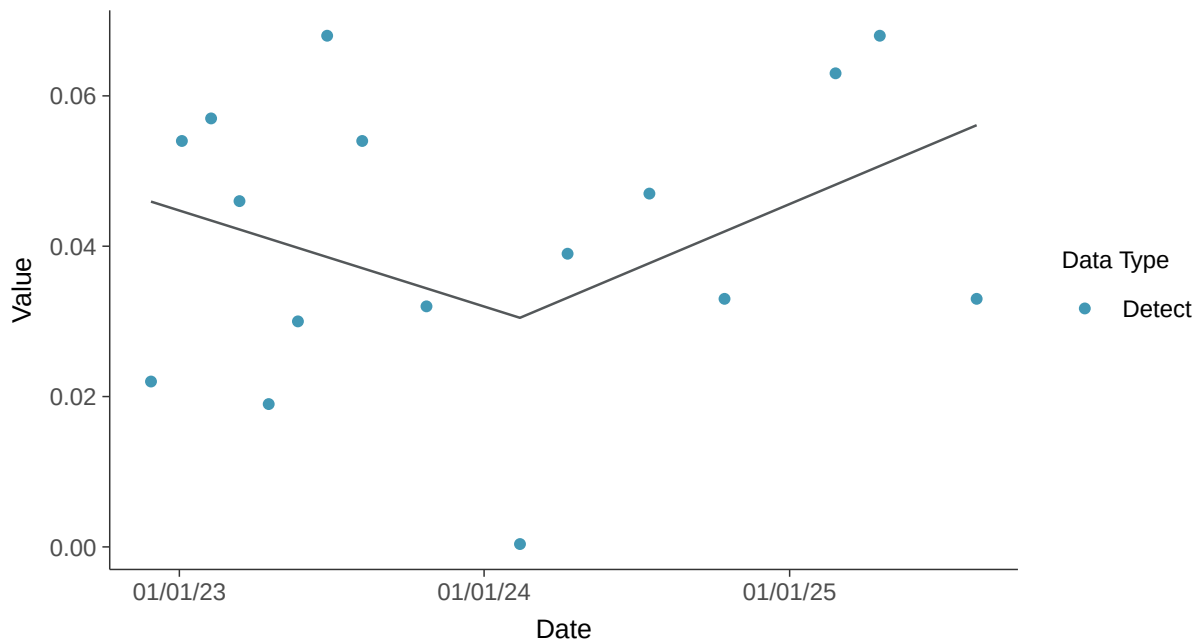
Trend Regression: Lognormal MLE

Chromium, Total, MW-02 (mg/L)



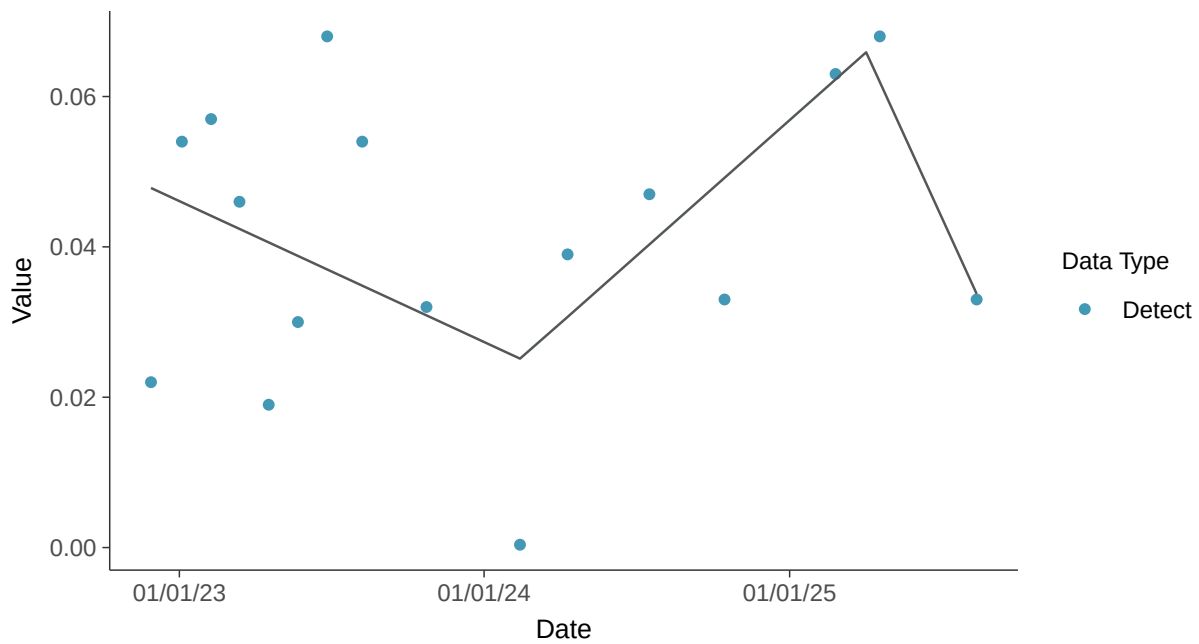
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-02 (mg/L)



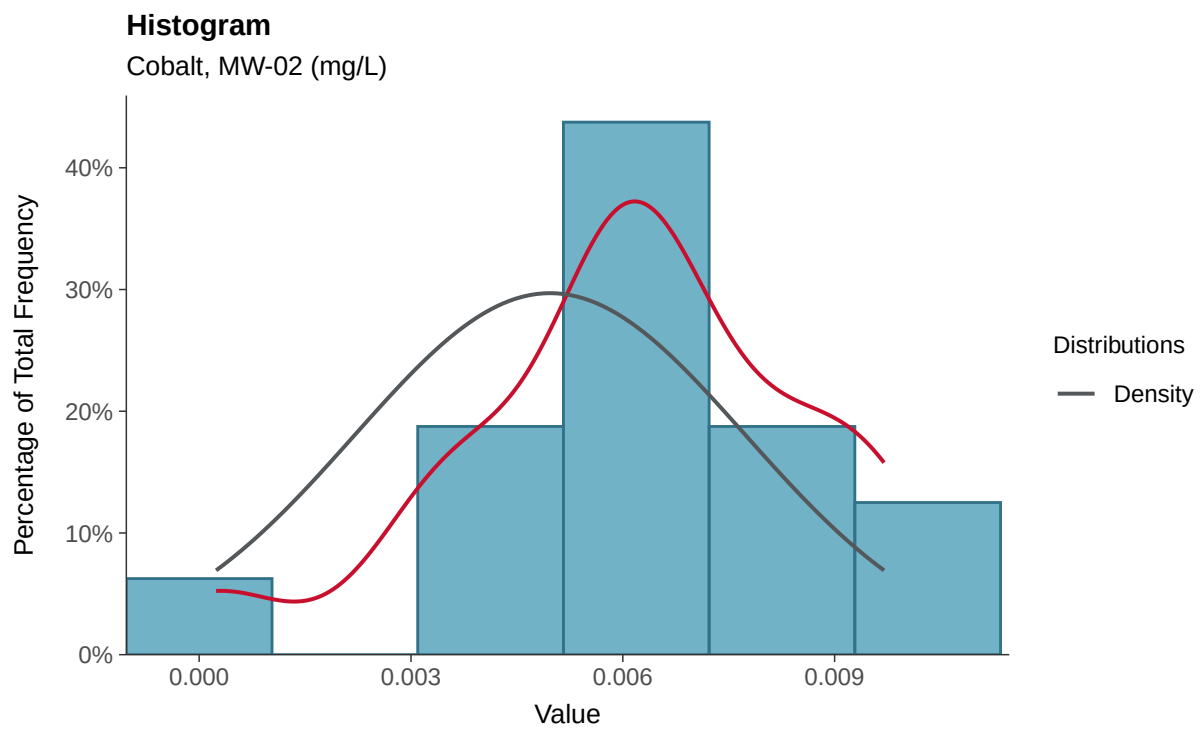
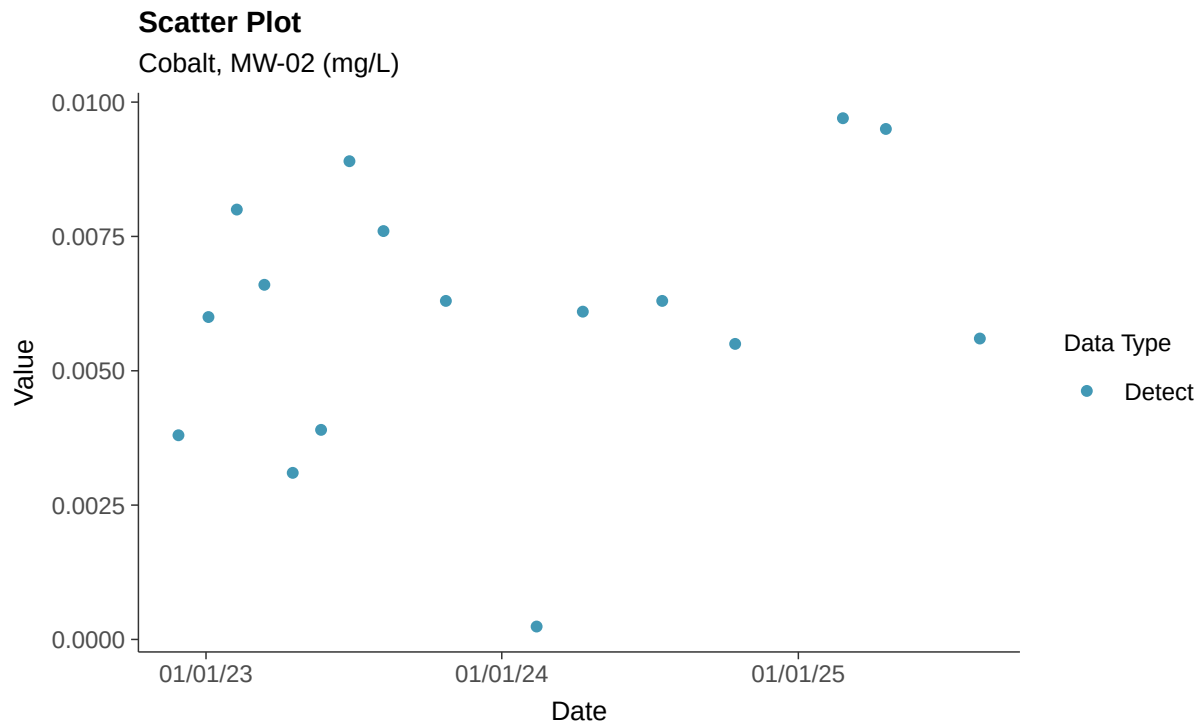
Trend Regression: Piecewise Linear-Linear-Linear

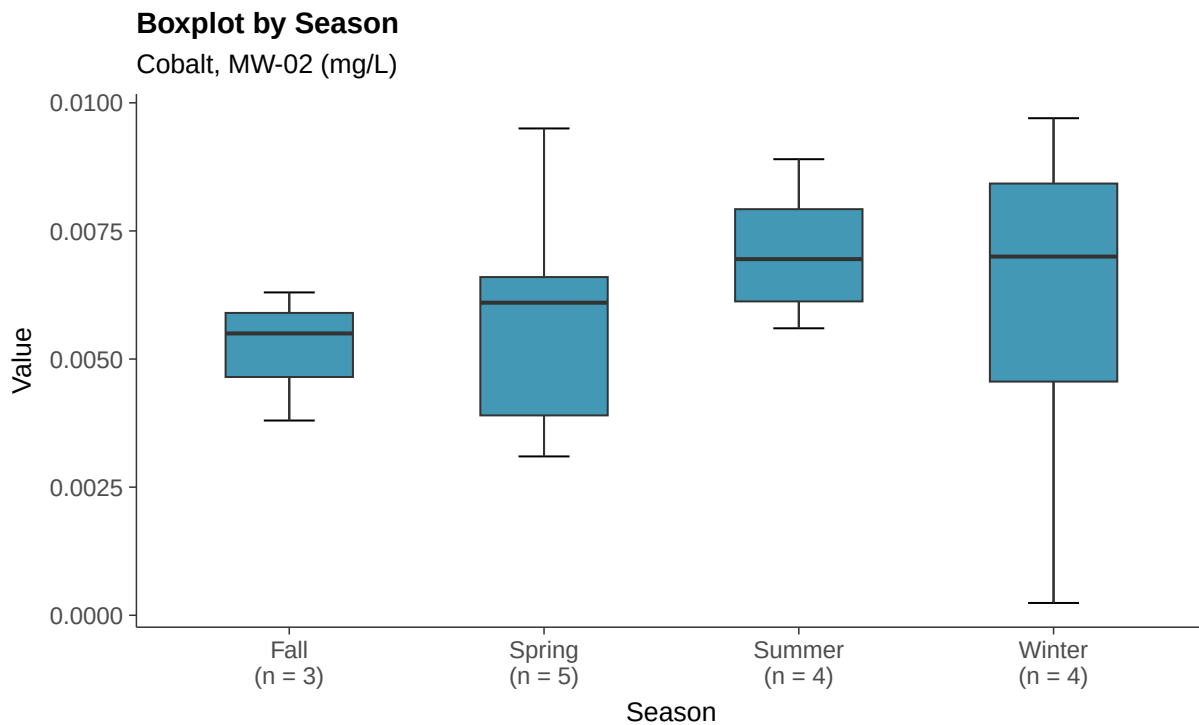
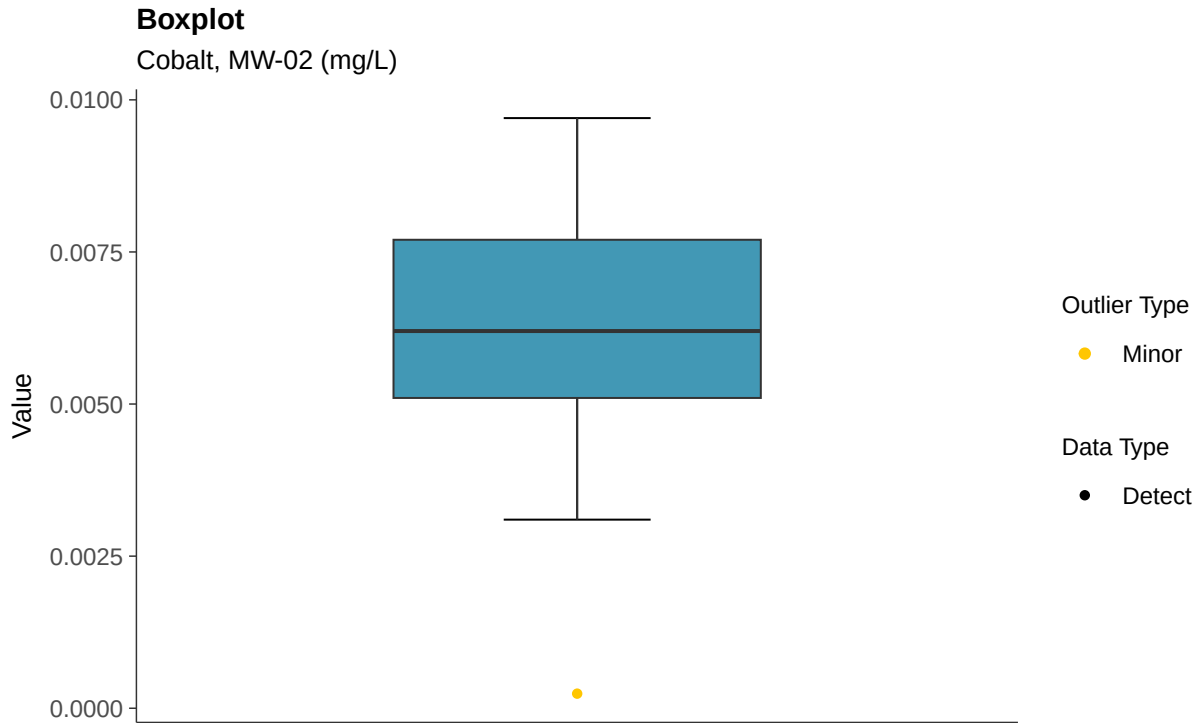
Chromium, Total, MW-02 (mg/L)

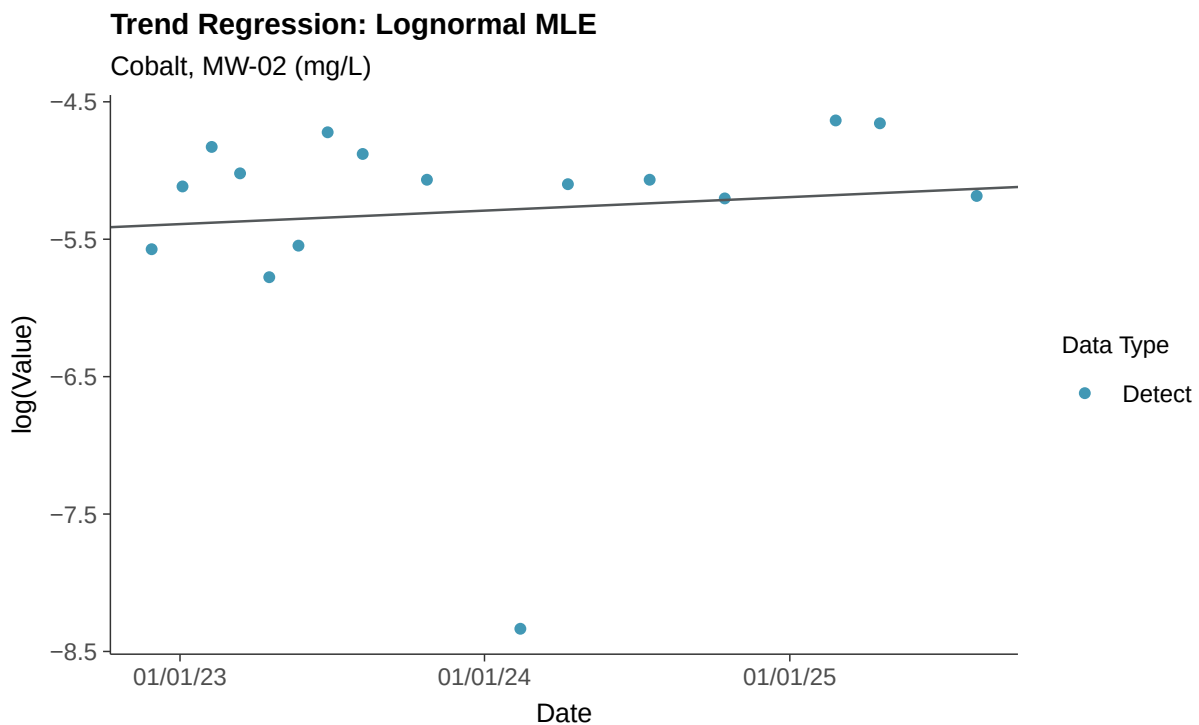
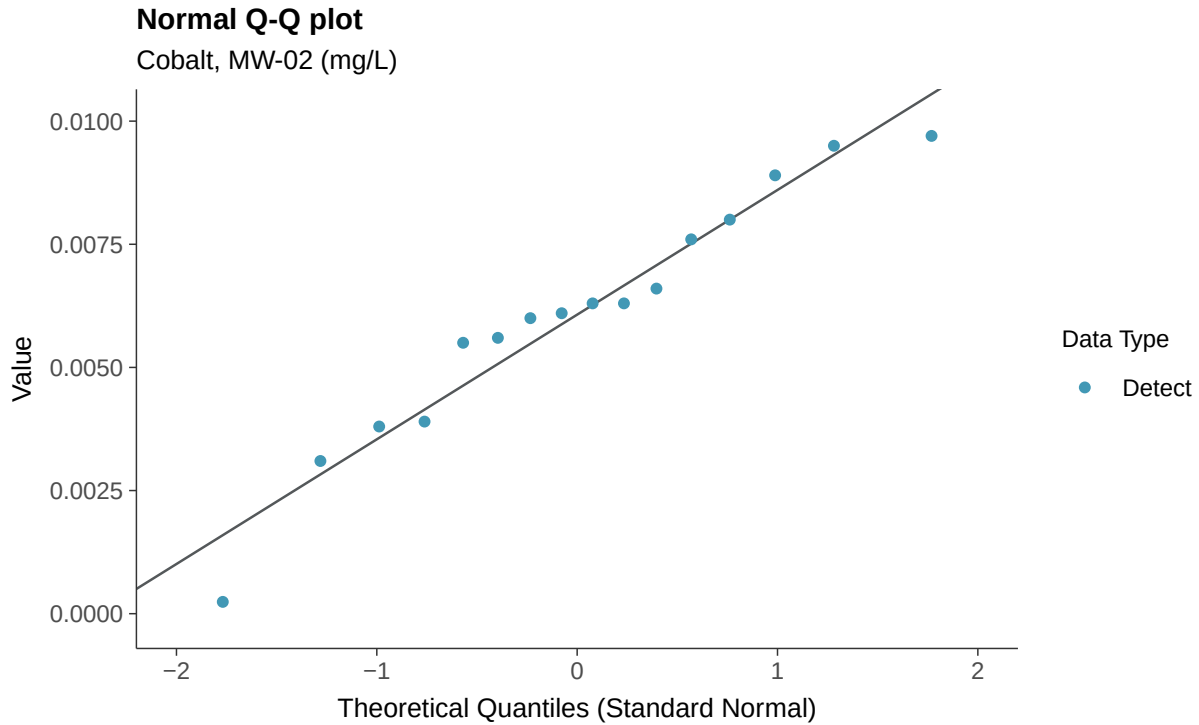


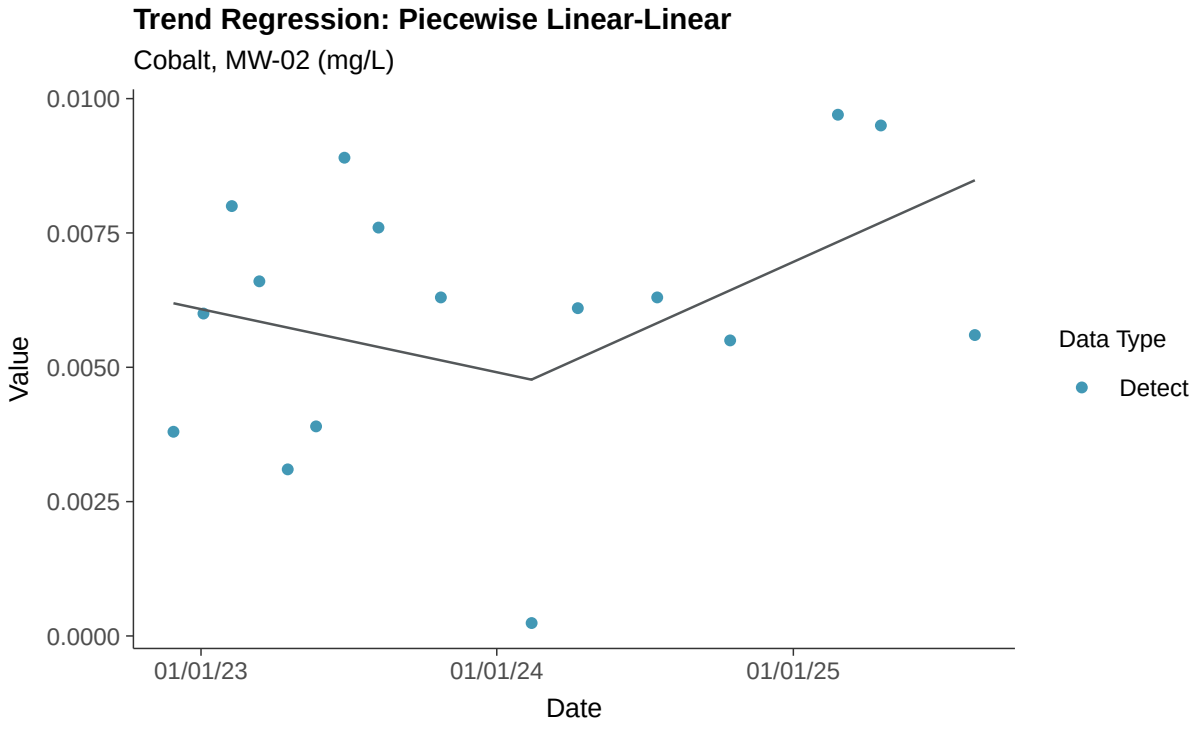
Appendix IV: Cobalt, MW-02

ID: 12_2_4_110







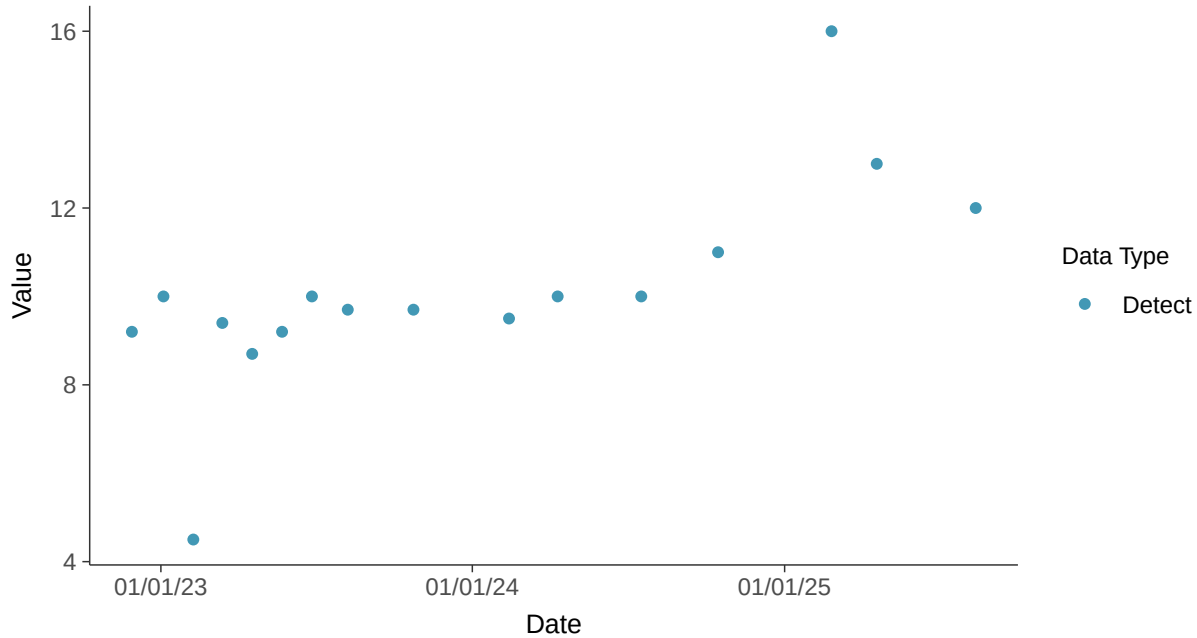


Appendix IV: Fluoride (App IV), MW-02

ID: 12_2_4_113

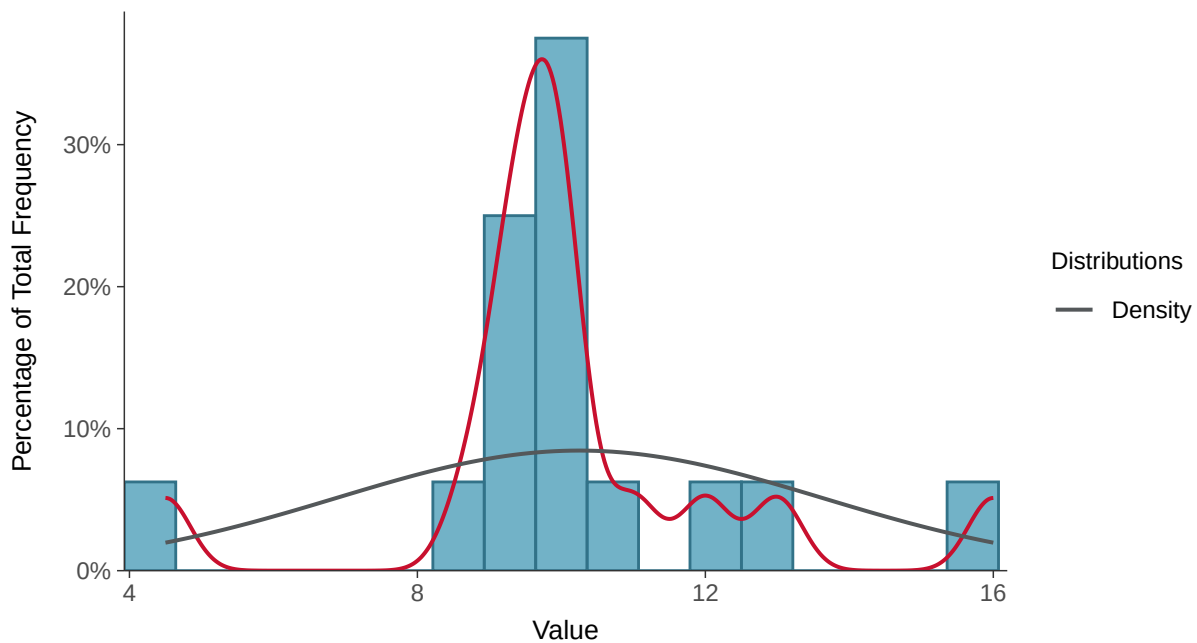
Scatter Plot

Fluoride (App IV), MW-02 (mg/L)



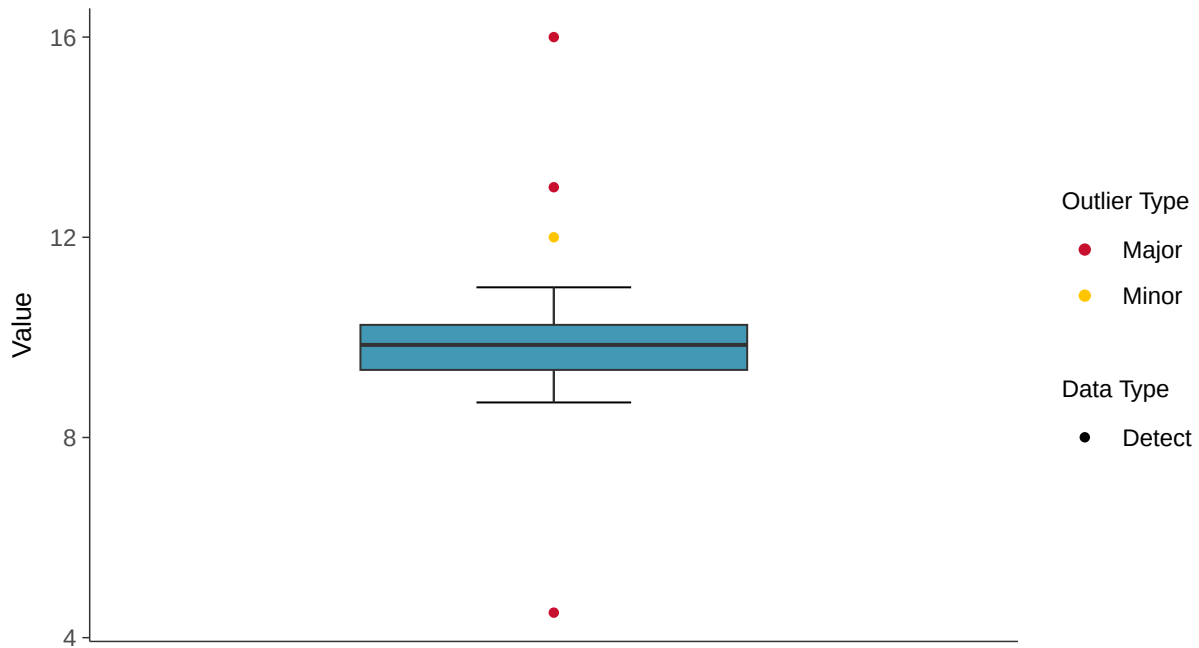
Histogram

Fluoride (App IV), MW-02 (mg/L)



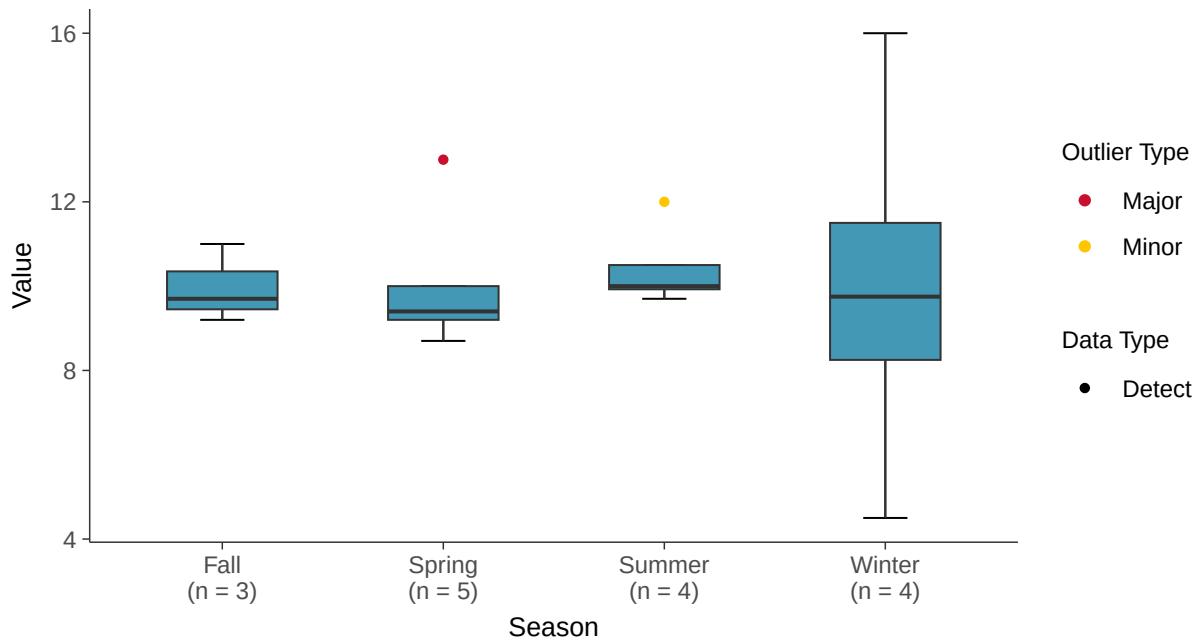
Boxplot

Fluoride (App IV), MW-02 (mg/L)



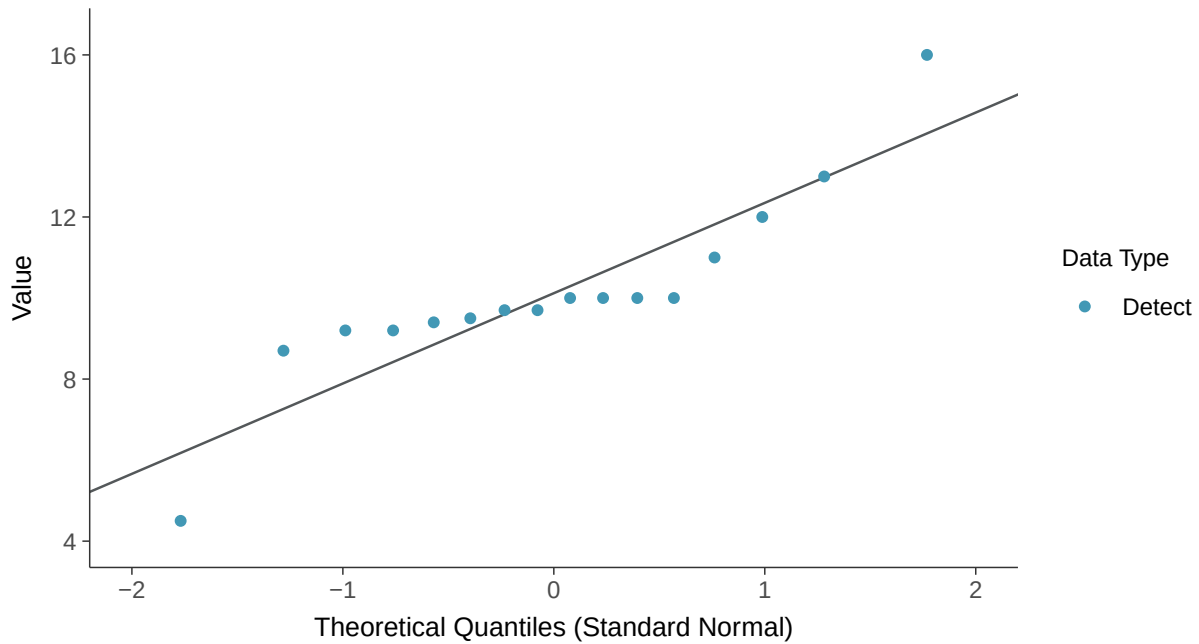
Boxplot by Season

Fluoride (App IV), MW-02 (mg/L)



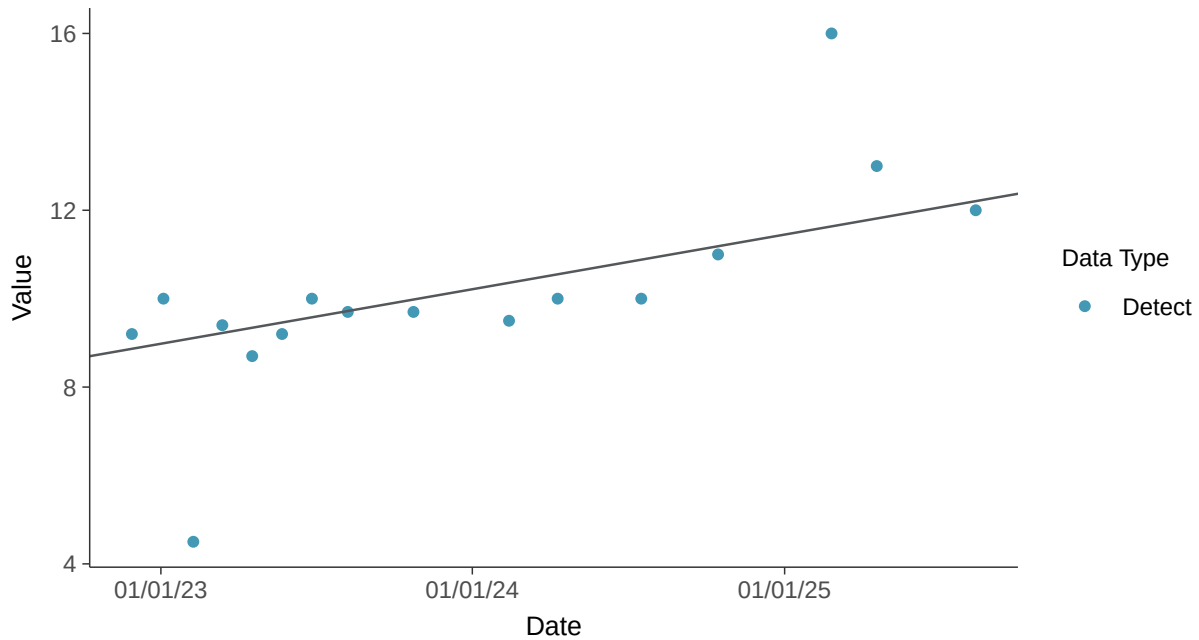
Normal Q-Q plot

Fluoride (App IV), MW-02 (mg/L)

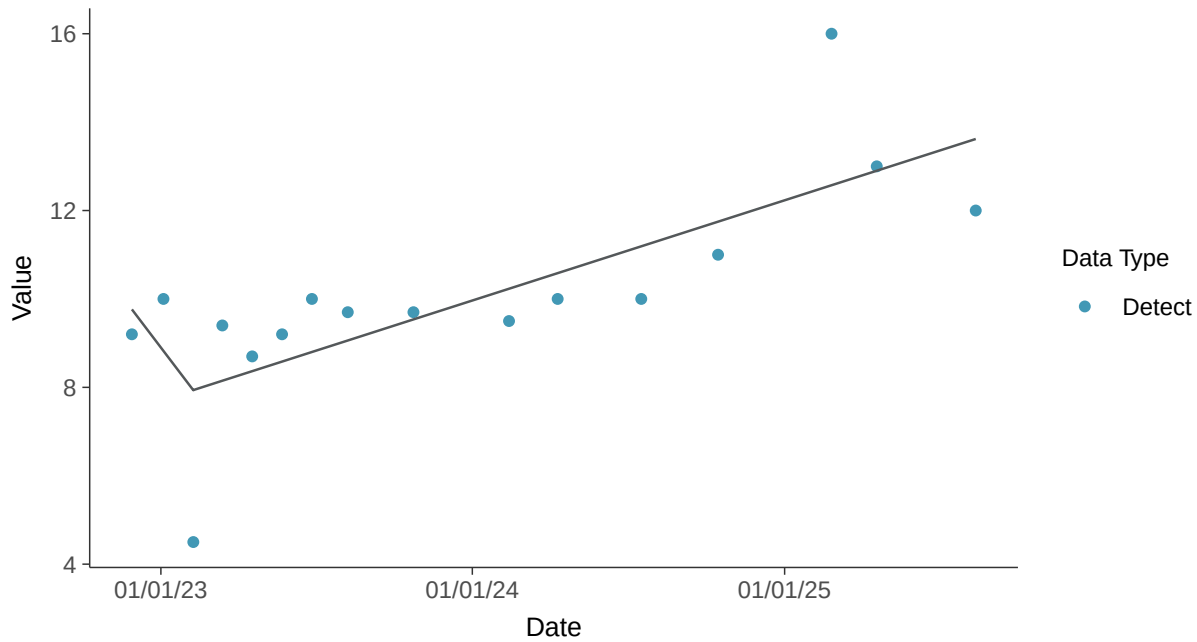


Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-02 (mg/L)

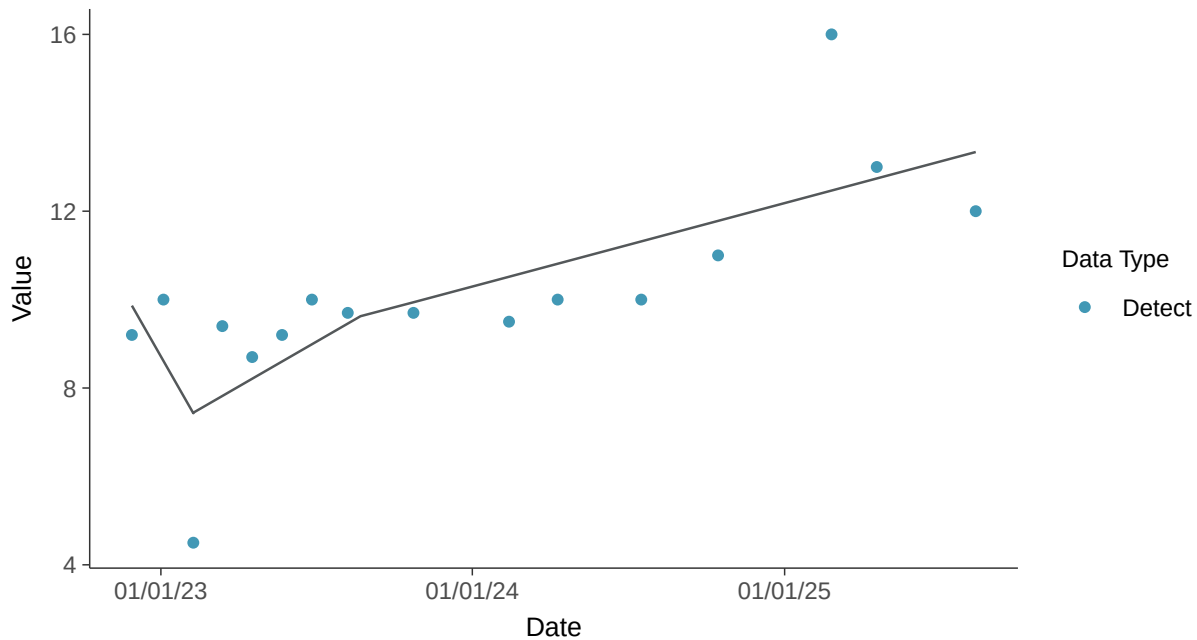


Fluoride (App IV), MW-02 (mg/L)



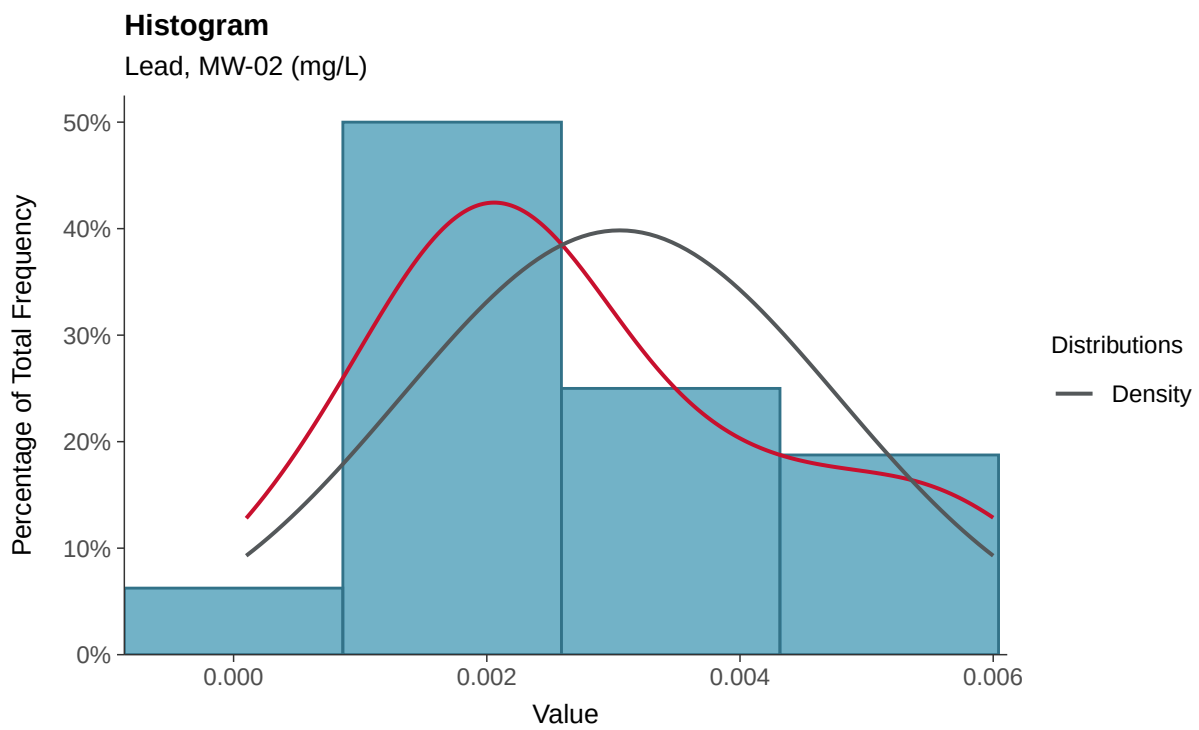
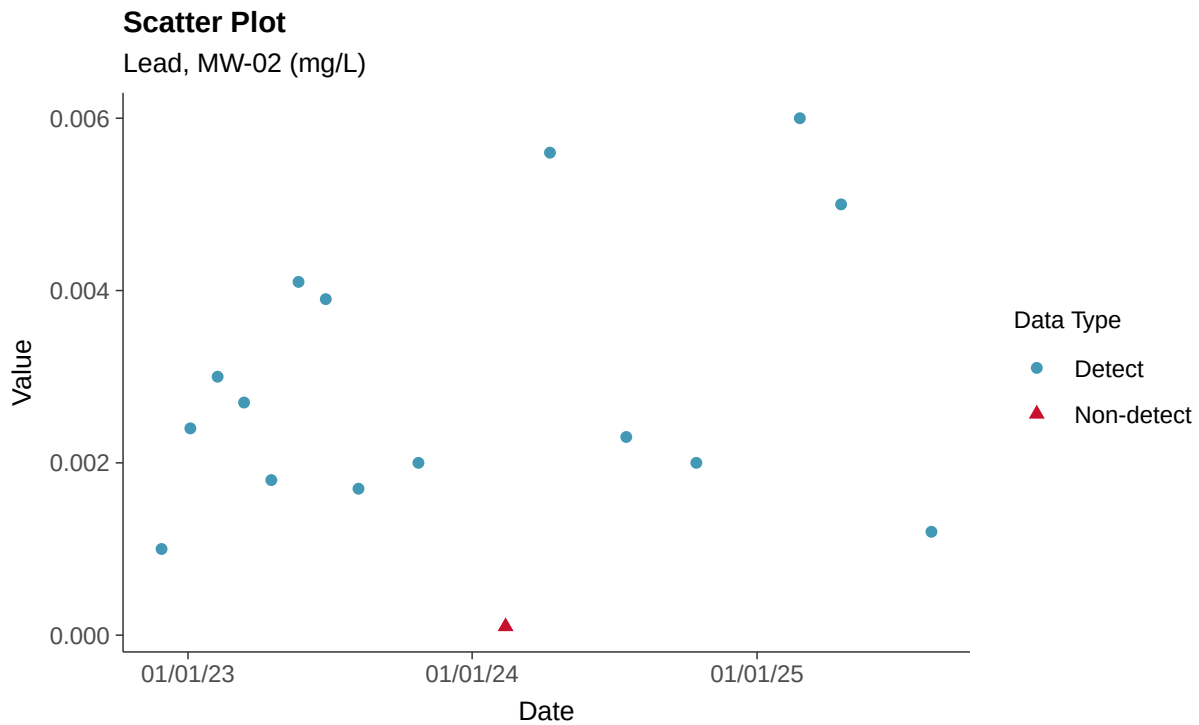
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-02 (mg/L)



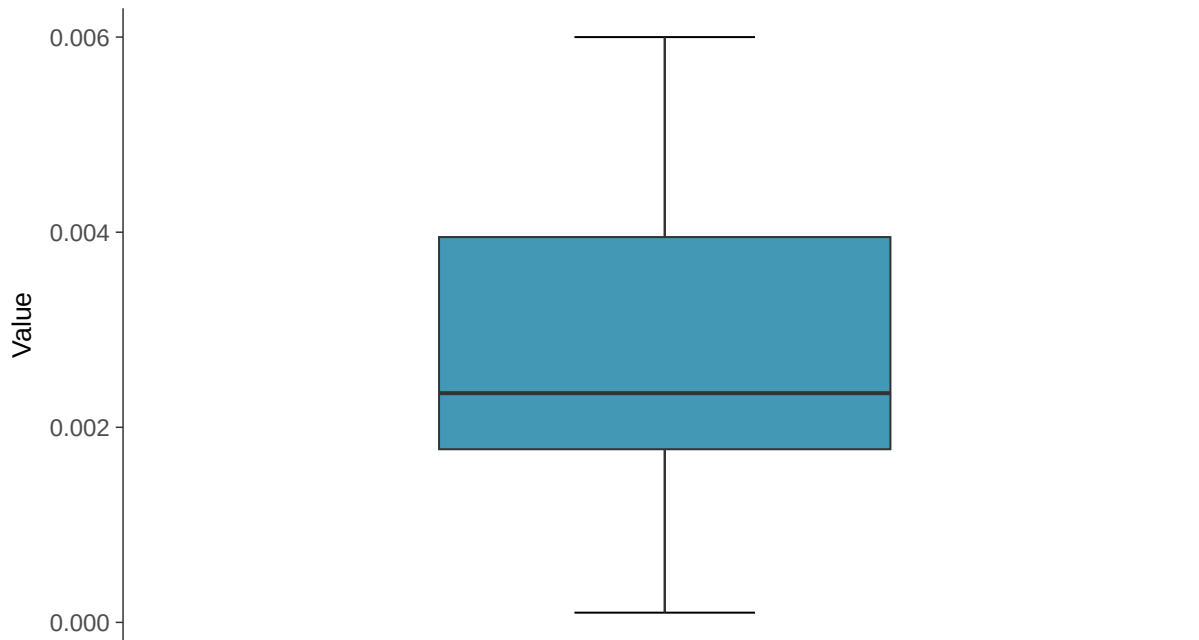
Appendix IV: Lead, MW-02

ID: 12_2_4_115



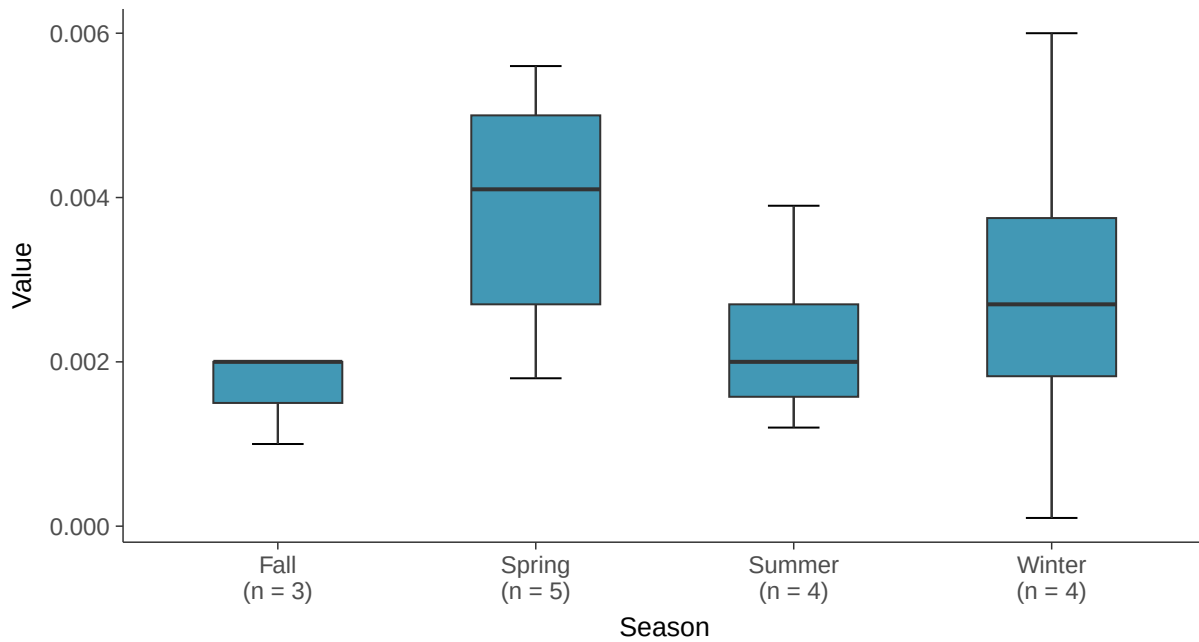
Boxplot

Lead, MW-02 (mg/L)



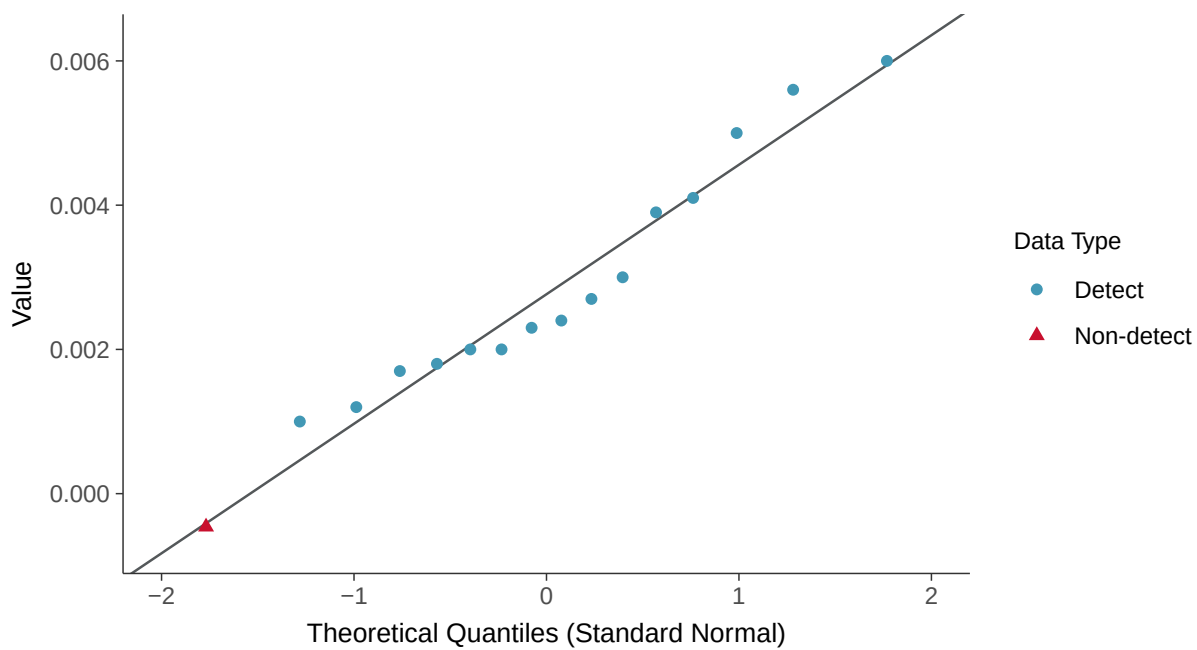
Boxplot by Season

Lead, MW-02 (mg/L)



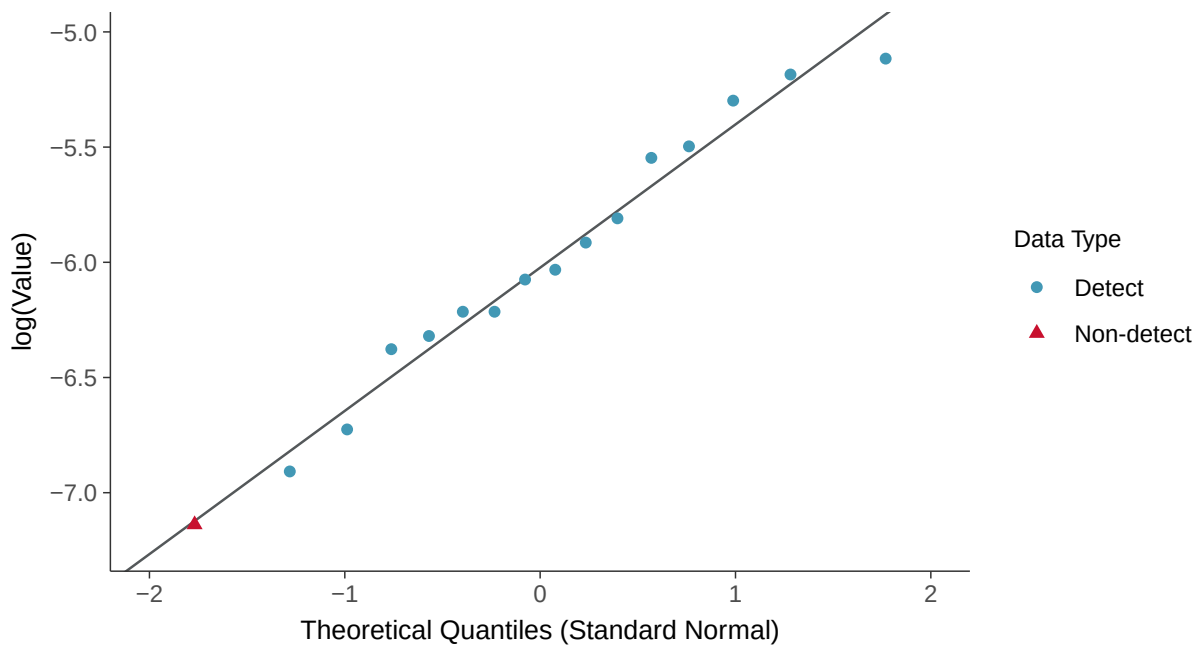
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-02 (mg/L)



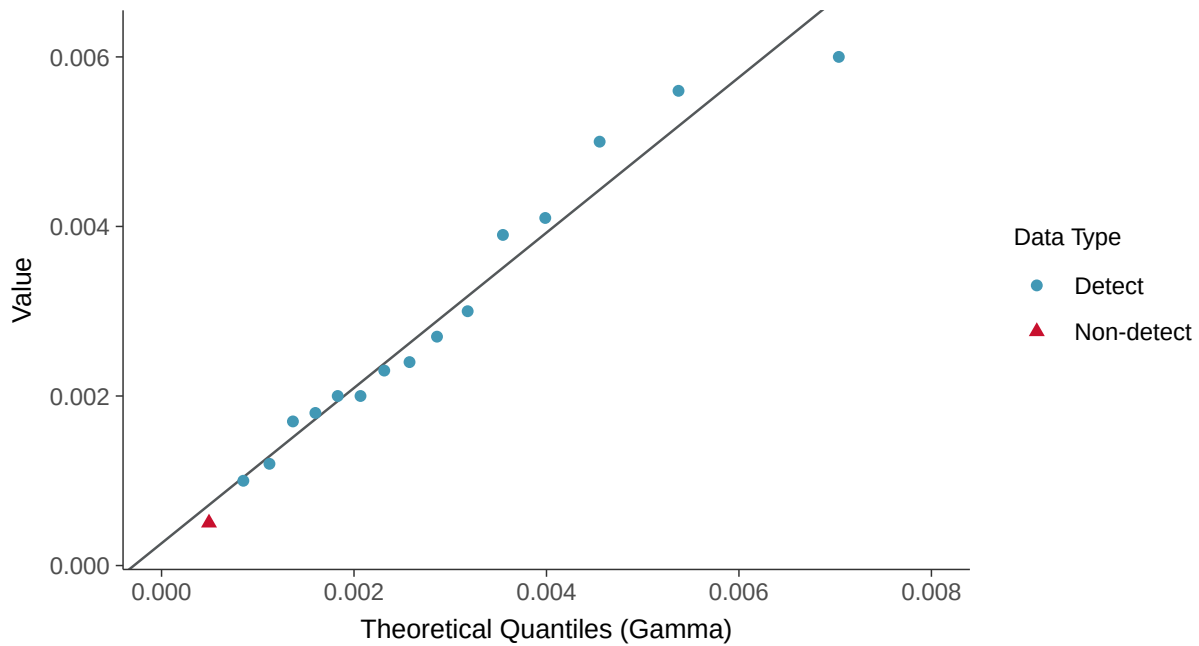
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-02 (mg/L)



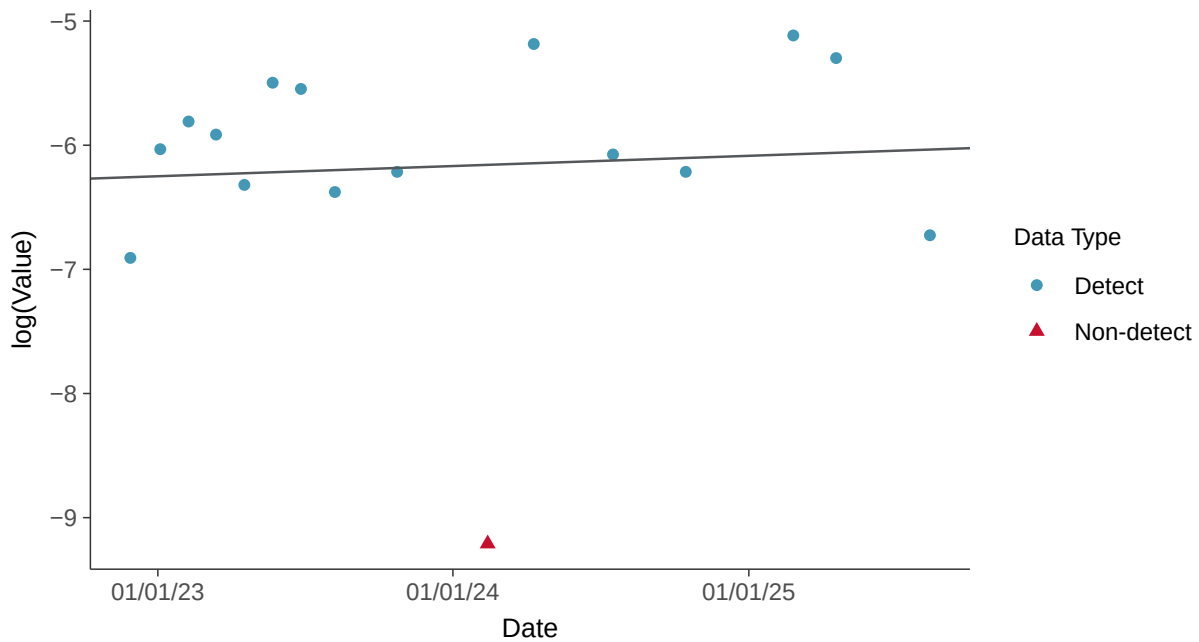
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-02 (mg/L)



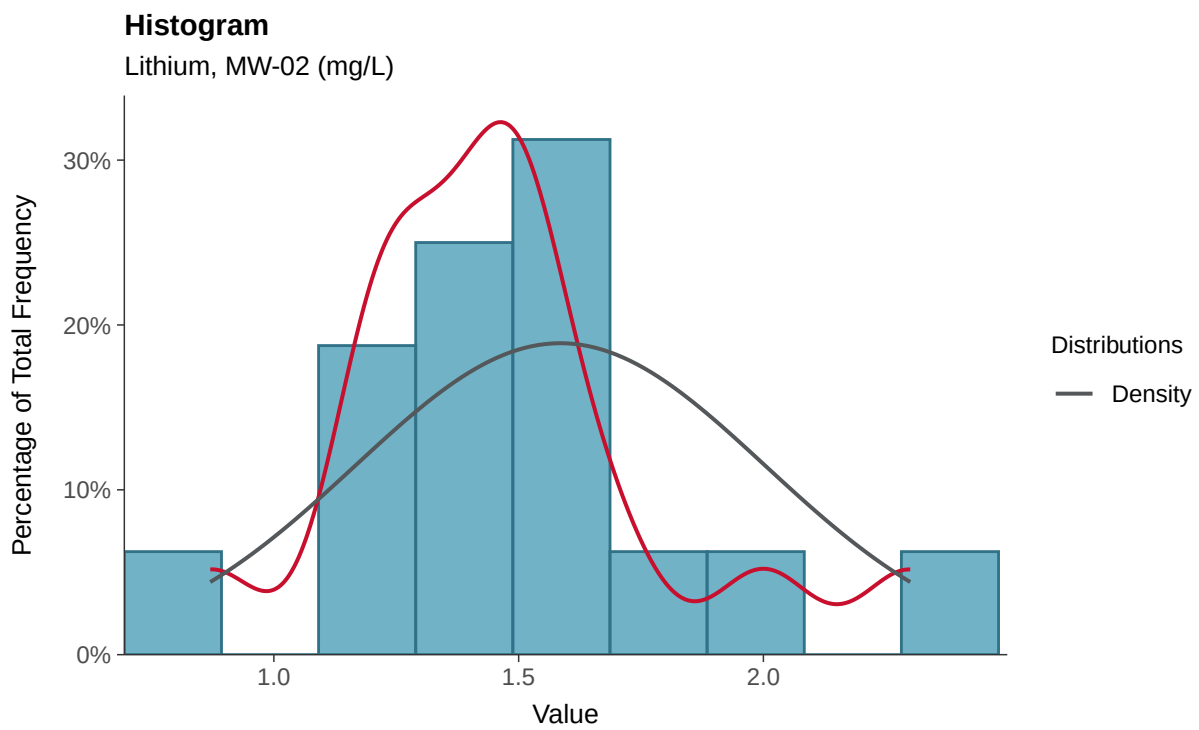
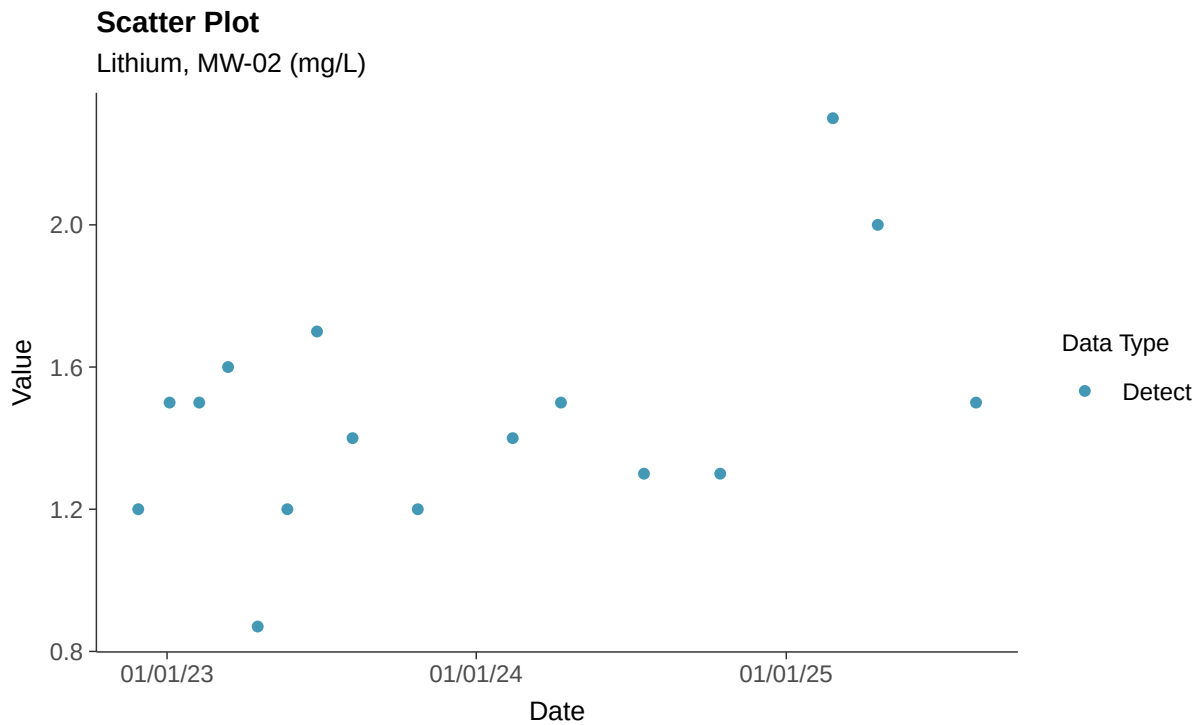
Trend Regression: Lognormal MLE

Lead, MW-02 (mg/L)



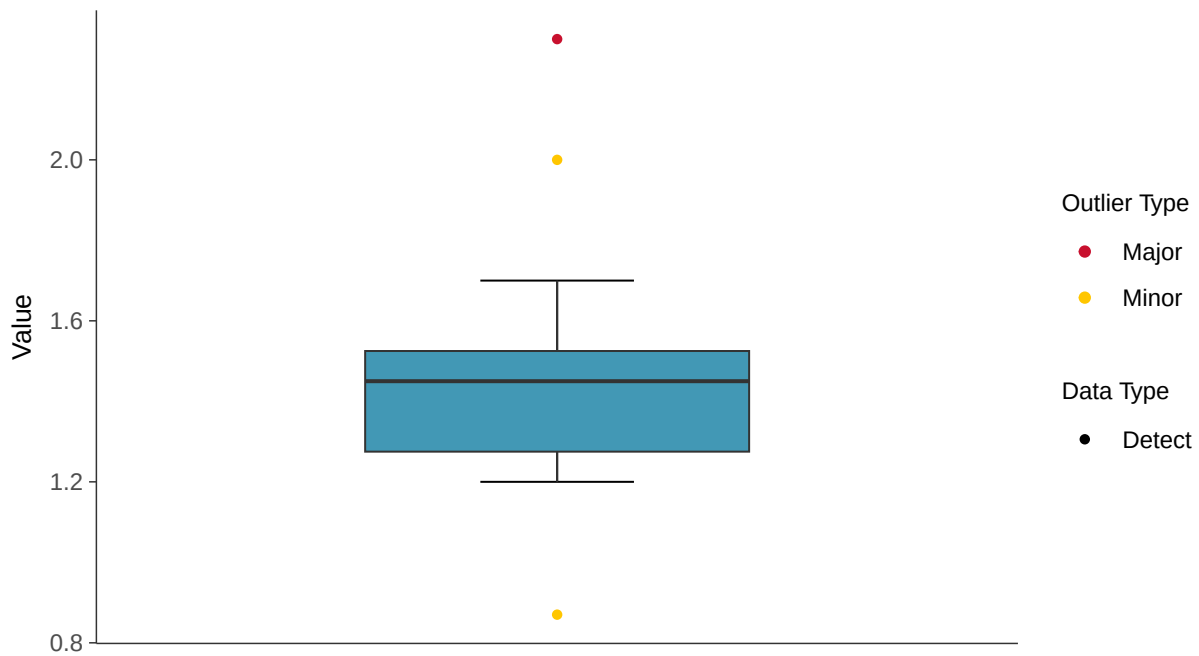
Appendix IV: Lithium, MW-02

ID: 12_2_4_116



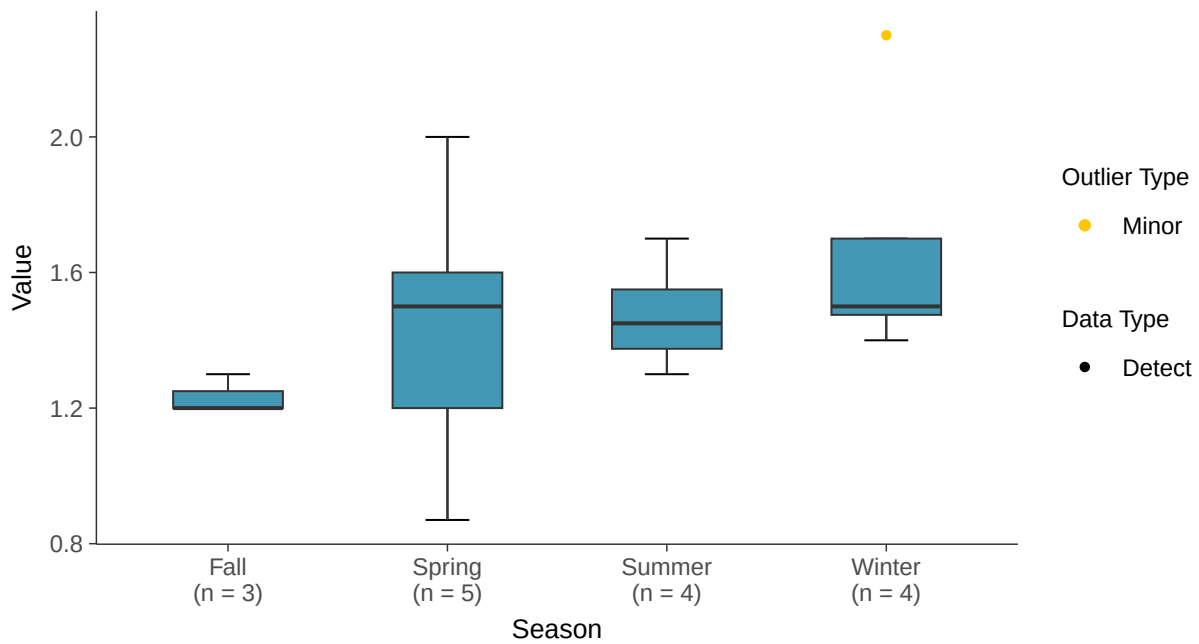
Boxplot

Lithium, MW-02 (mg/L)

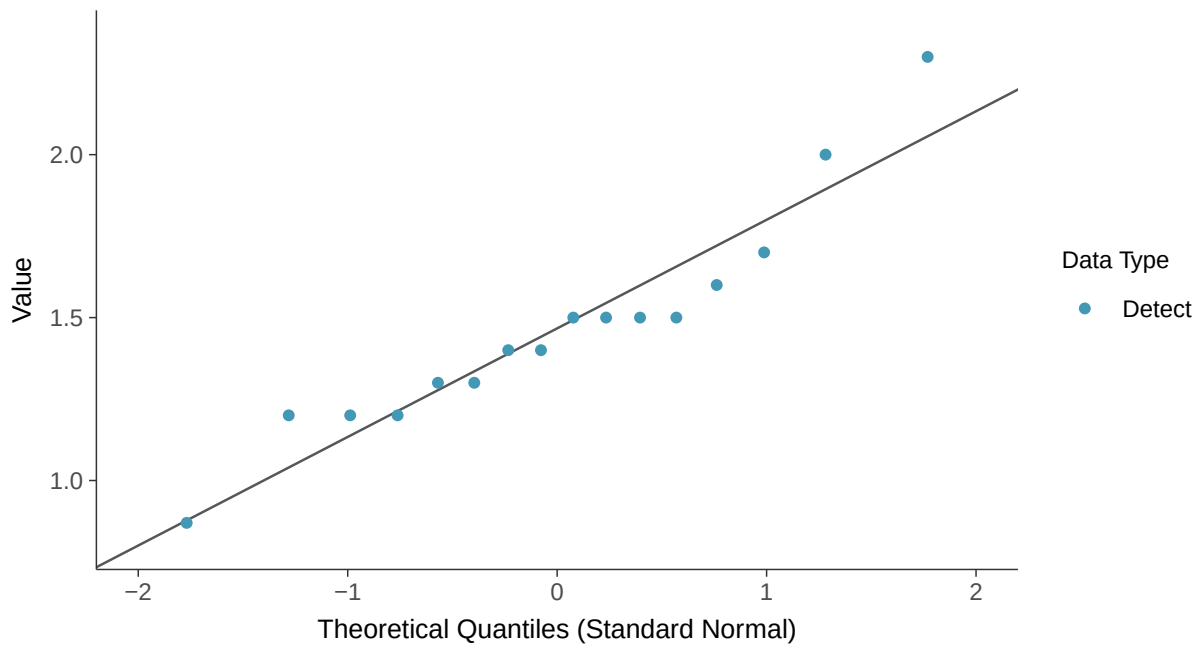


Boxplot by Season

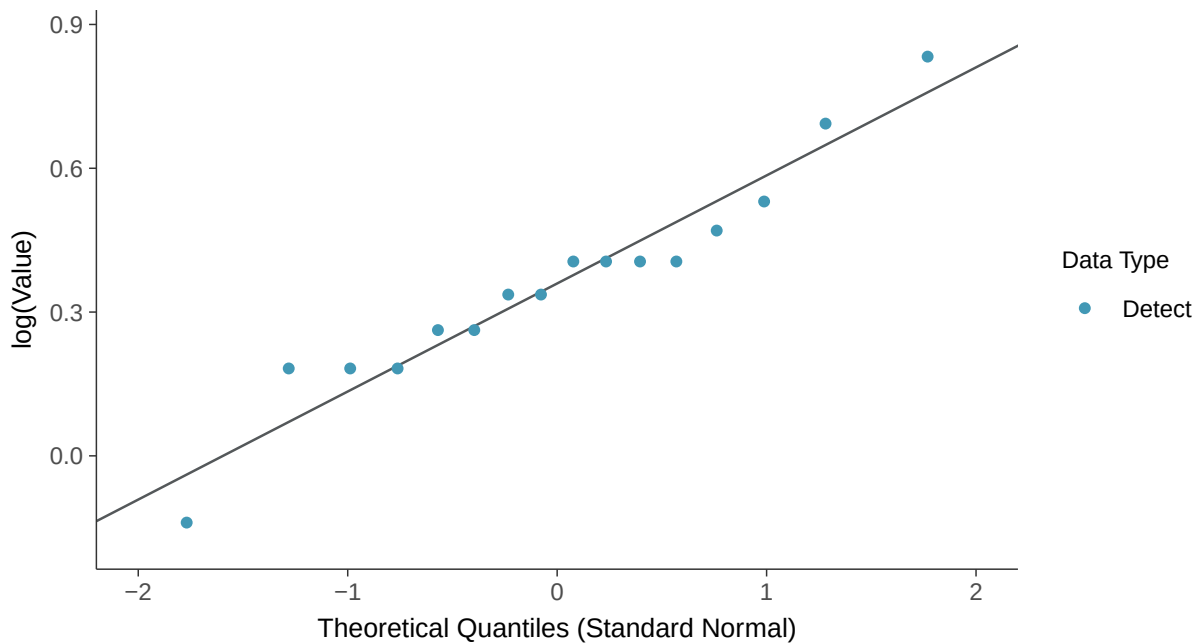
Lithium, MW-02 (mg/L)



Normal Q-Q plot
Lithium, MW-02 (mg/L)

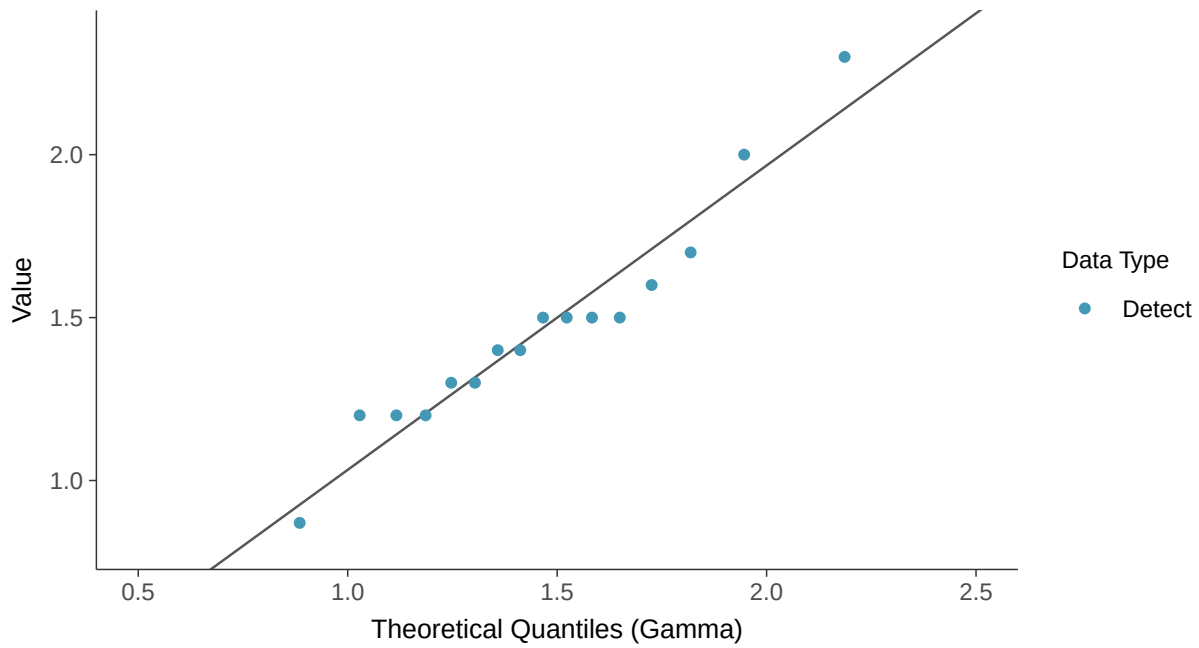


Lognormal Q-Q plot
Lithium, MW-02 (mg/L)



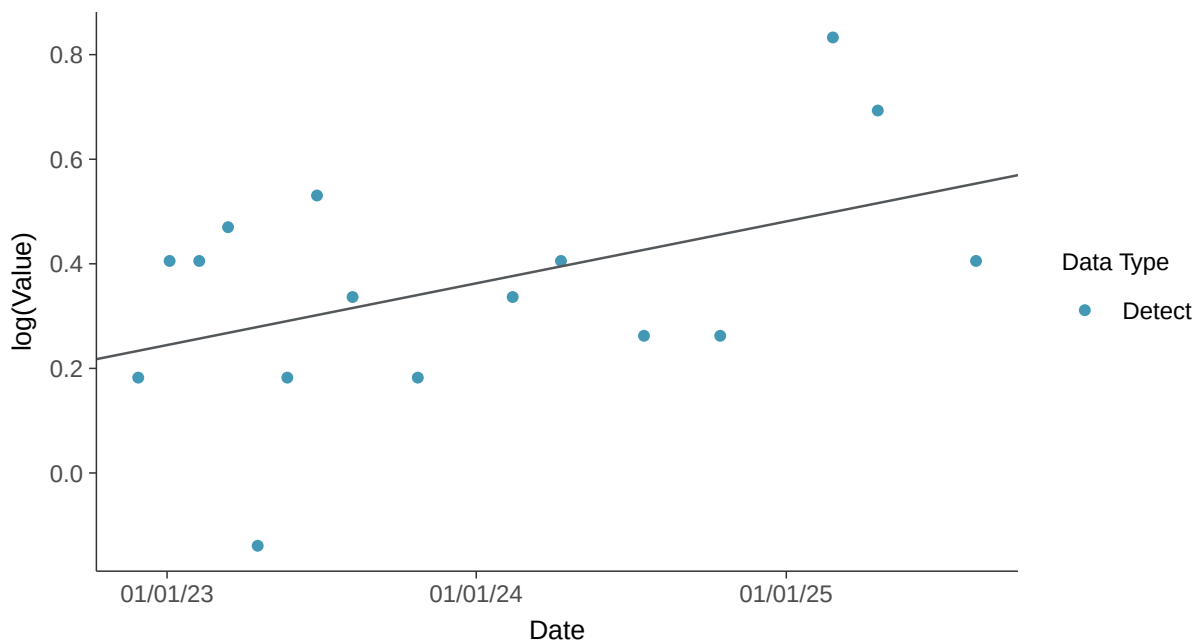
Gamma Q-Q plot

Lithium, MW-02 (mg/L)



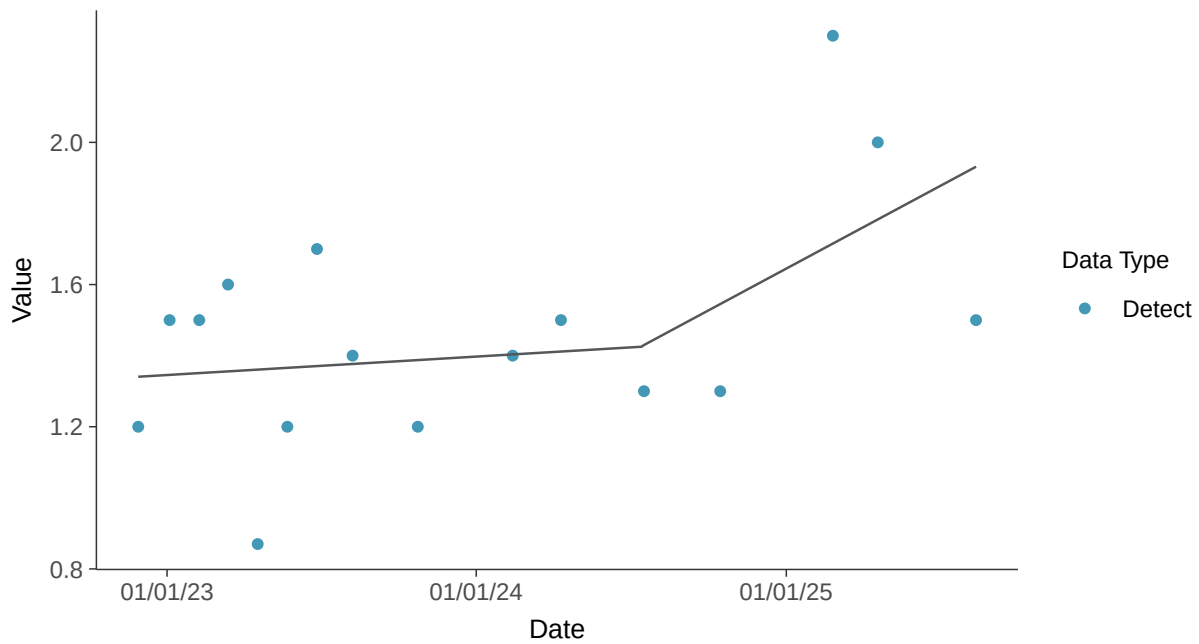
Trend Regression: Lognormal MLE

Lithium, MW-02 (mg/L)



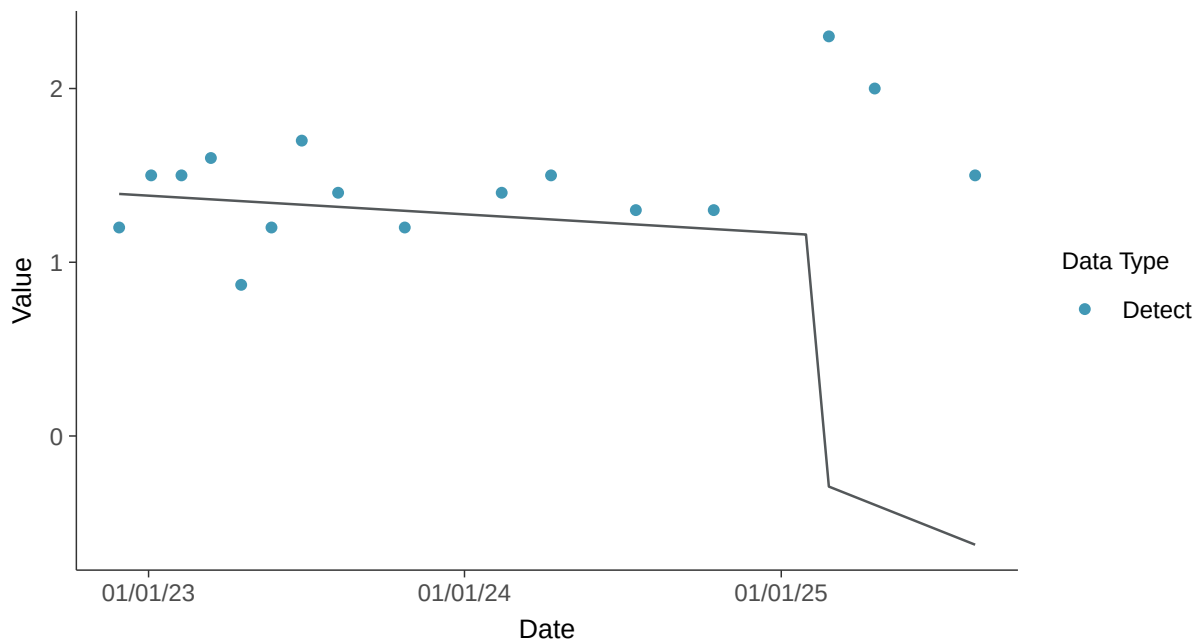
Trend Regression: Piecewise Linear-Linear

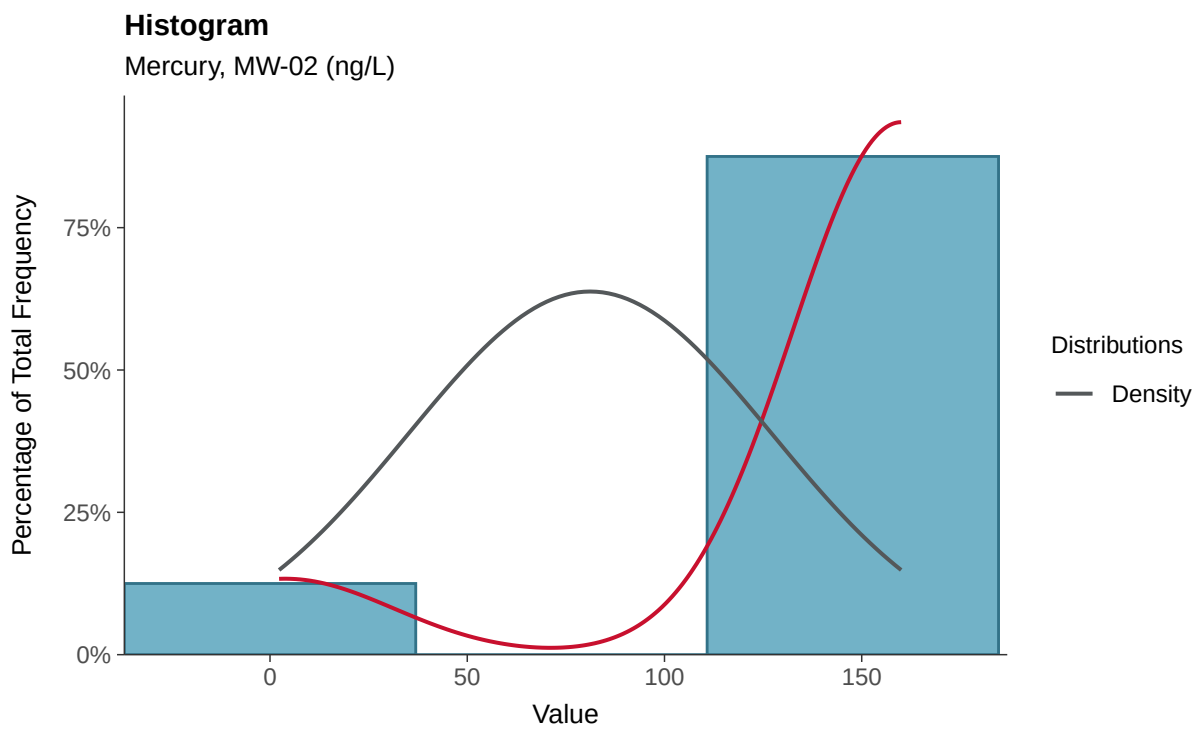
Lithium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

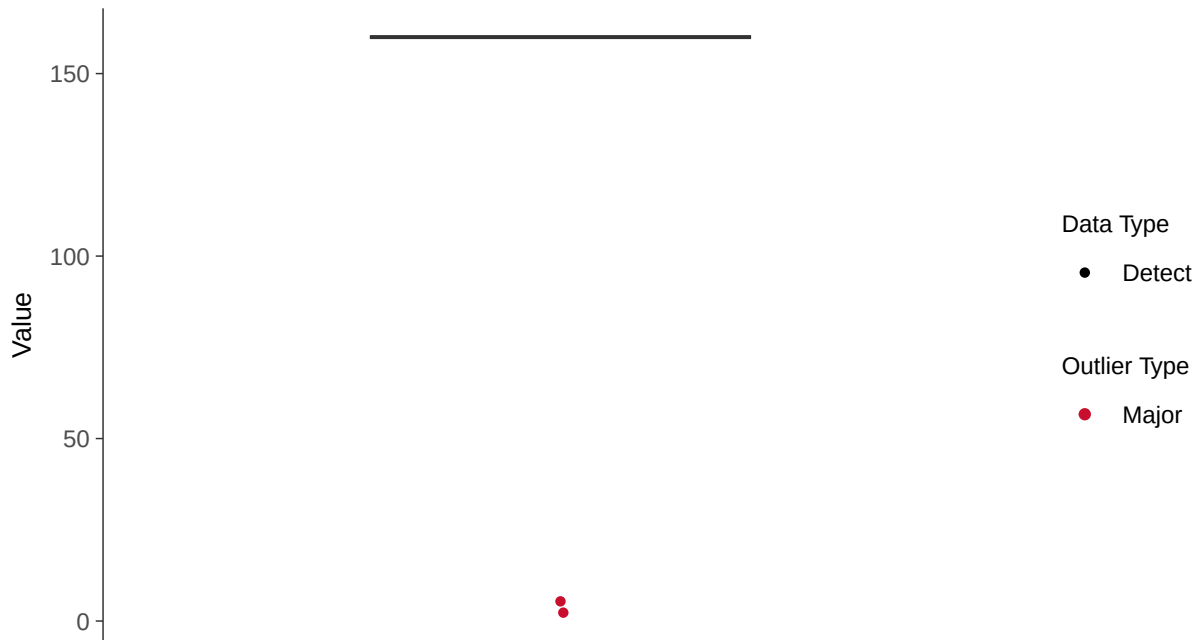
Lithium, MW-02 (mg/L)





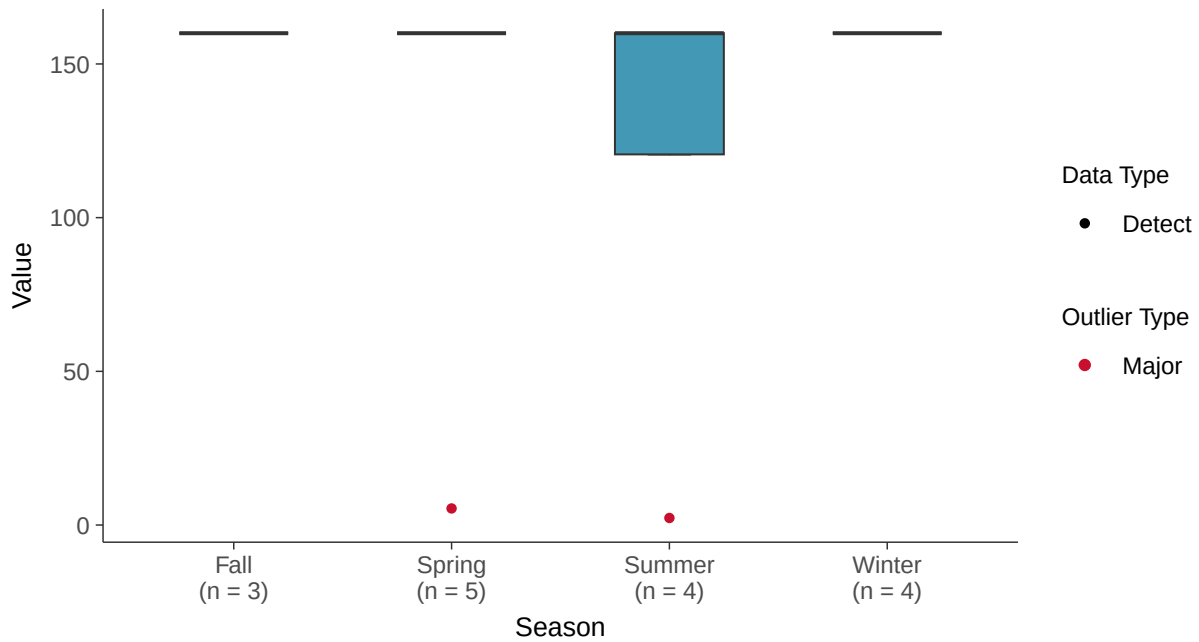
Boxplot

Mercury, MW-02 (ng/L)



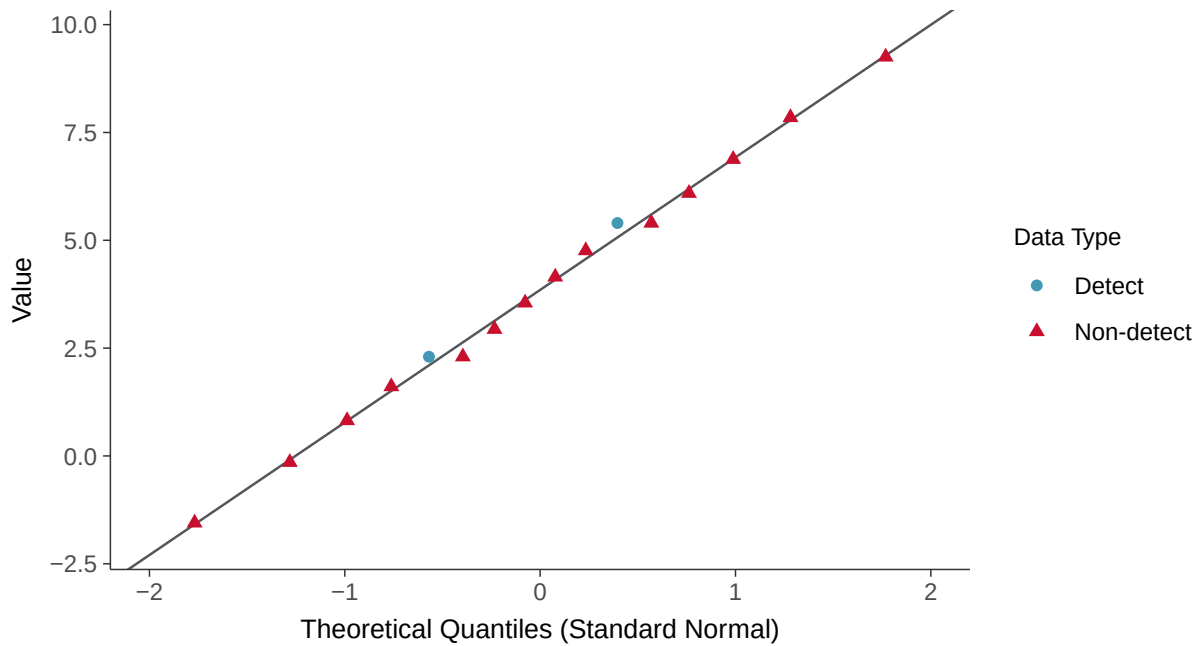
Boxplot by Season

Mercury, MW-02 (ng/L)



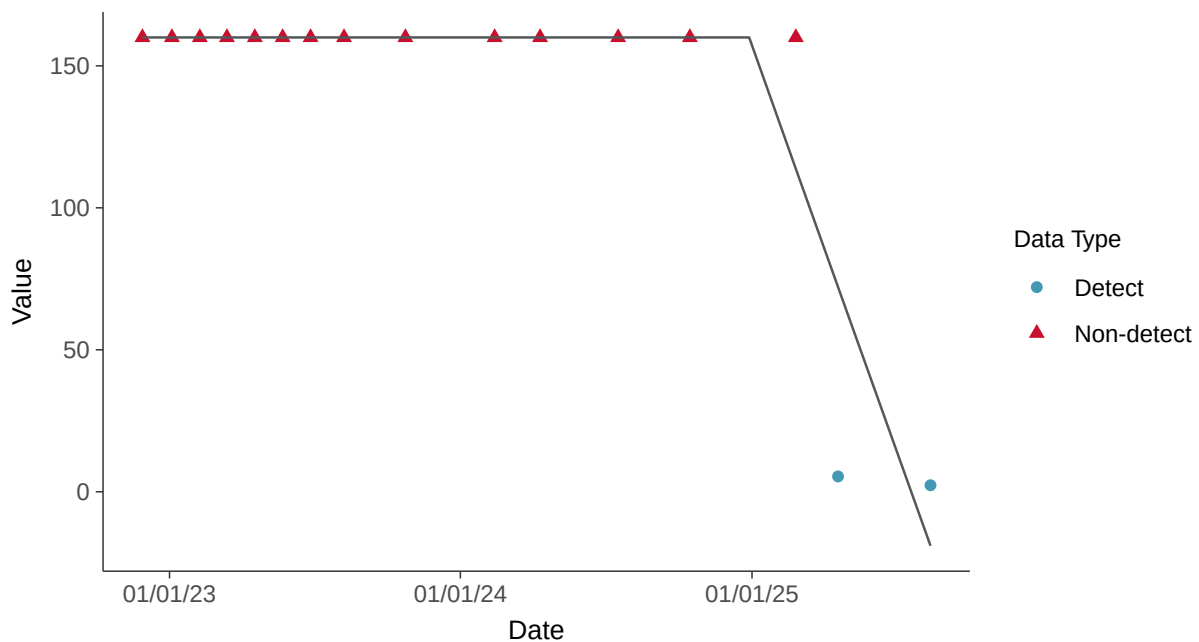
Normal Q-Q plot using ROS Imputed Estimates

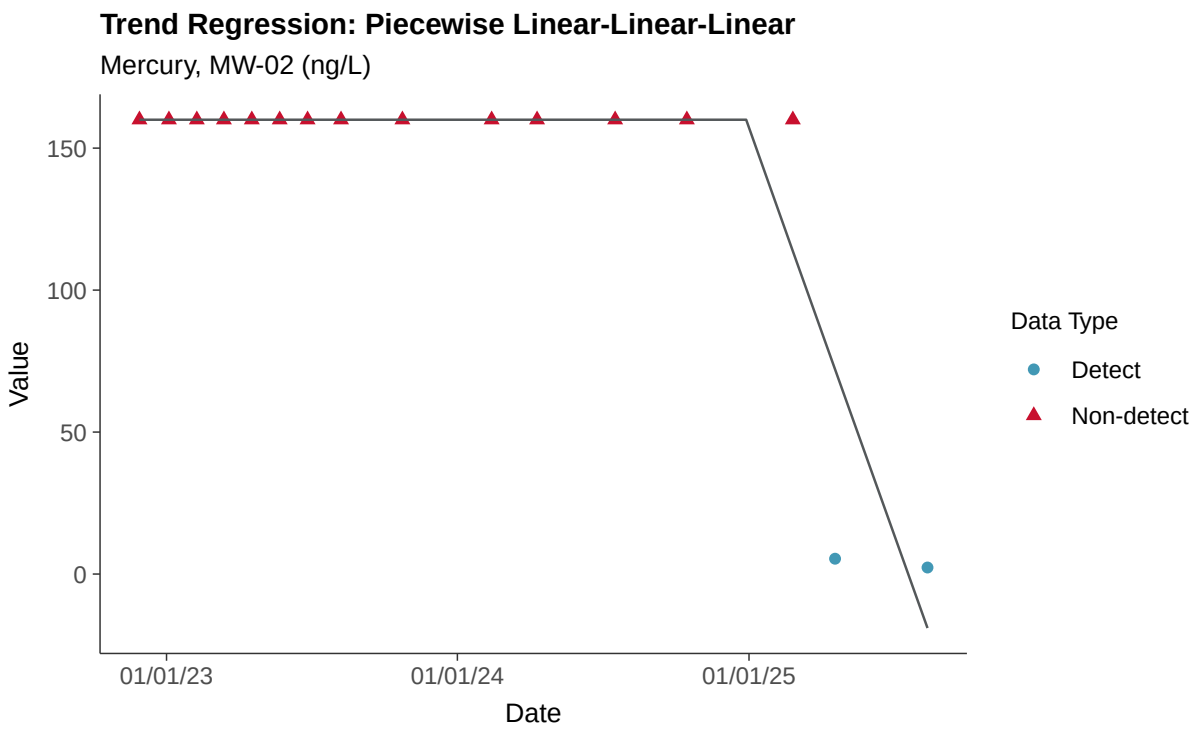
Mercury, MW-02 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-02 (ng/L)



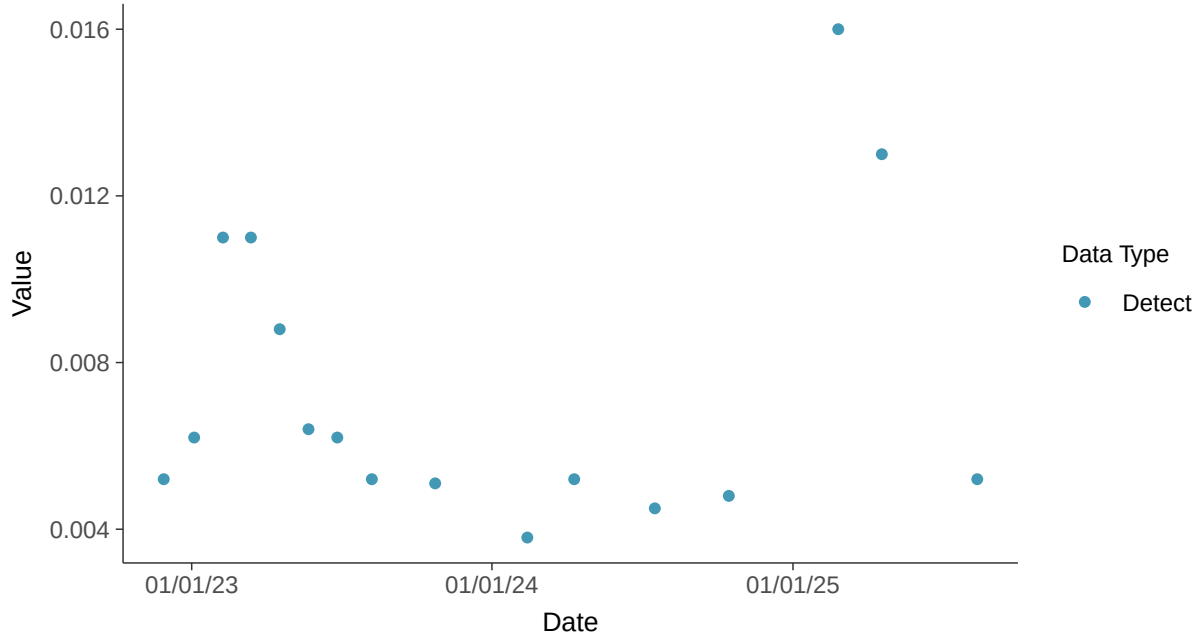


Appendix IV: Molybdenum, MW-02

ID: 12_2_4_118

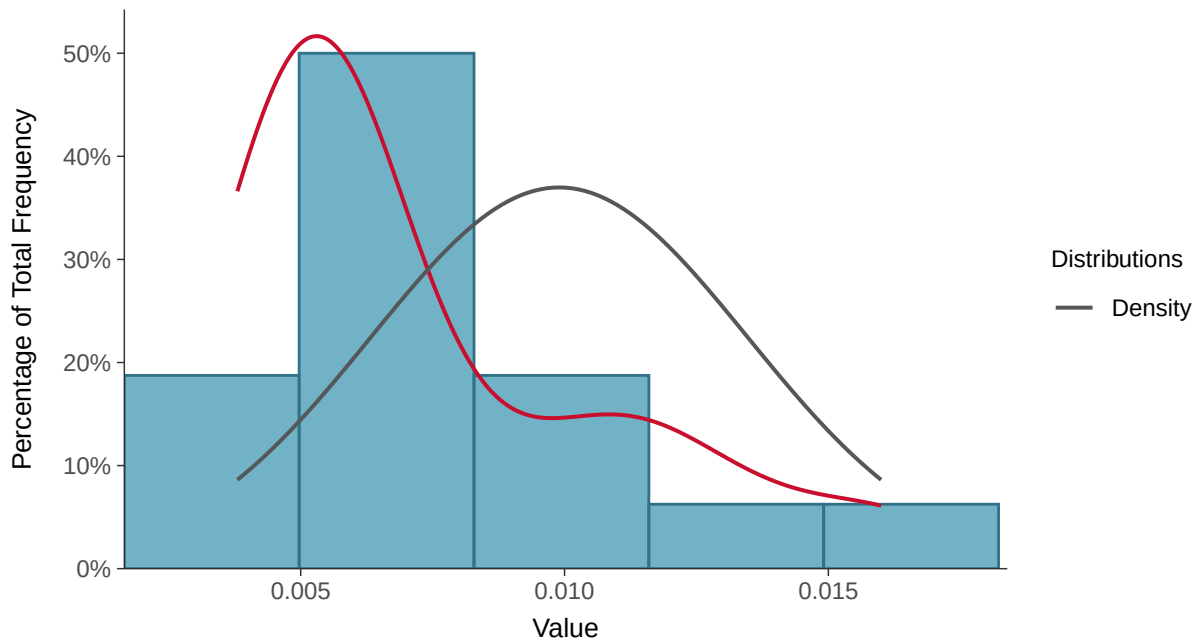
Scatter Plot

Molybdenum, MW-02 (mg/L)



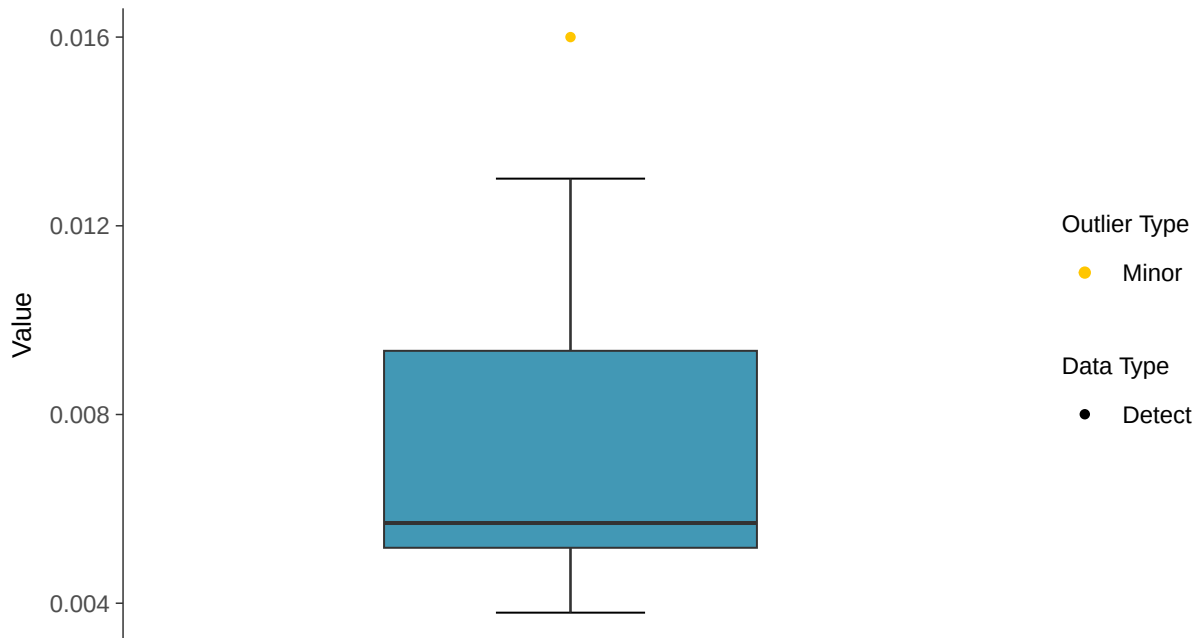
Histogram

Molybdenum, MW-02 (mg/L)



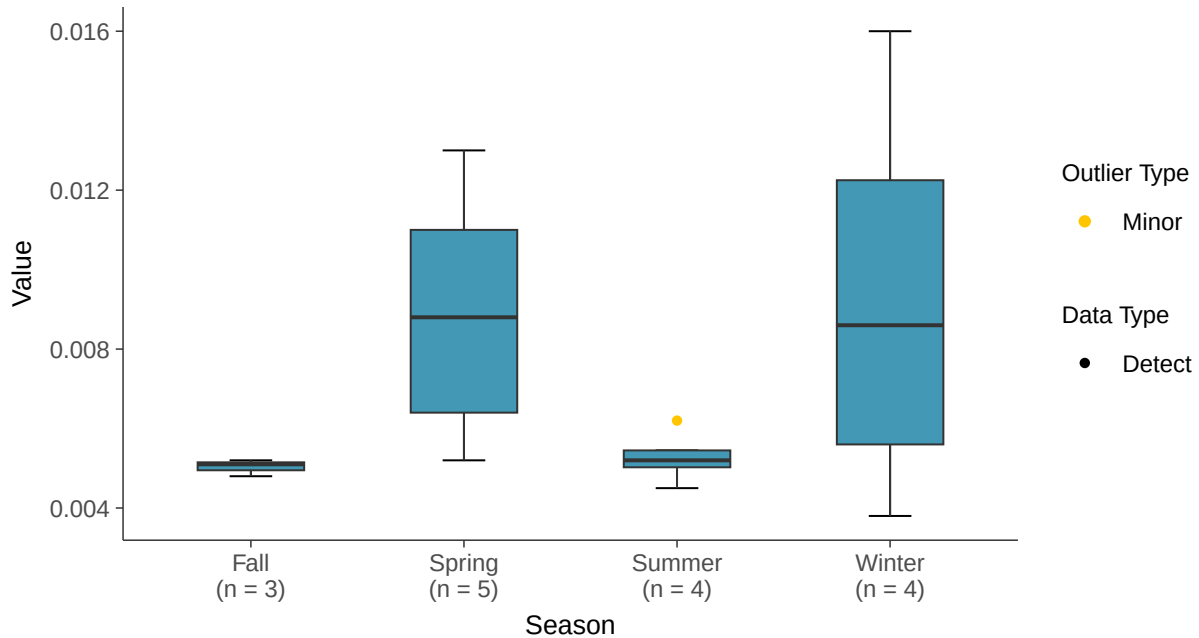
Boxplot

Molybdenum, MW-02 (mg/L)



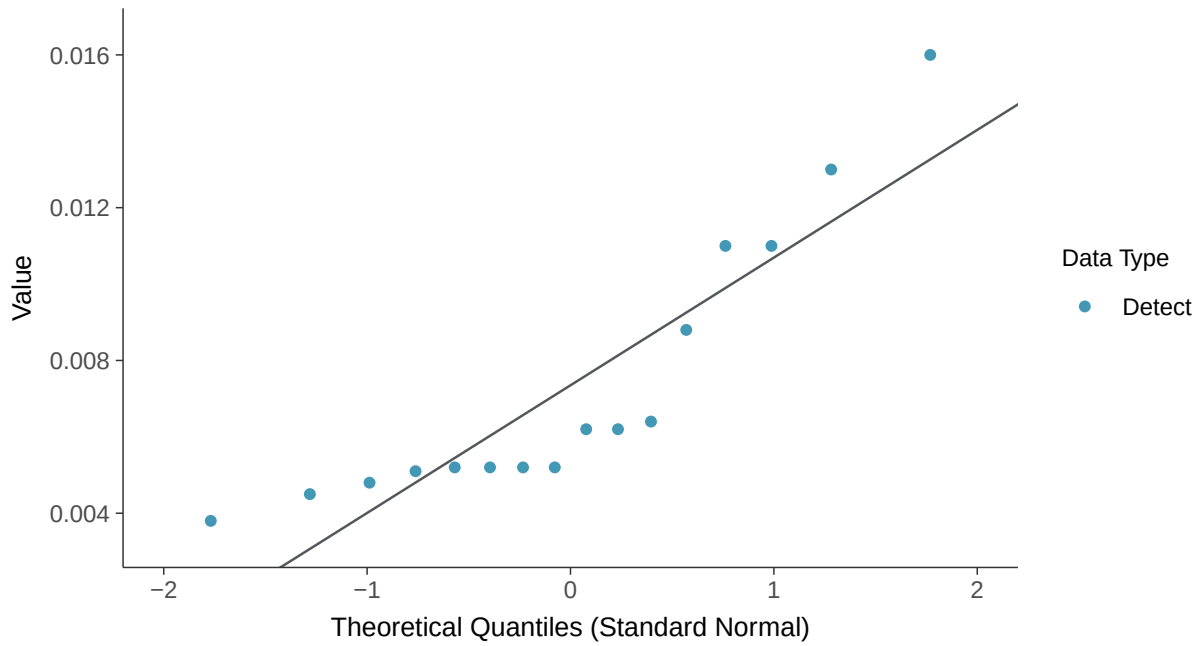
Boxplot by Season

Molybdenum, MW-02 (mg/L)



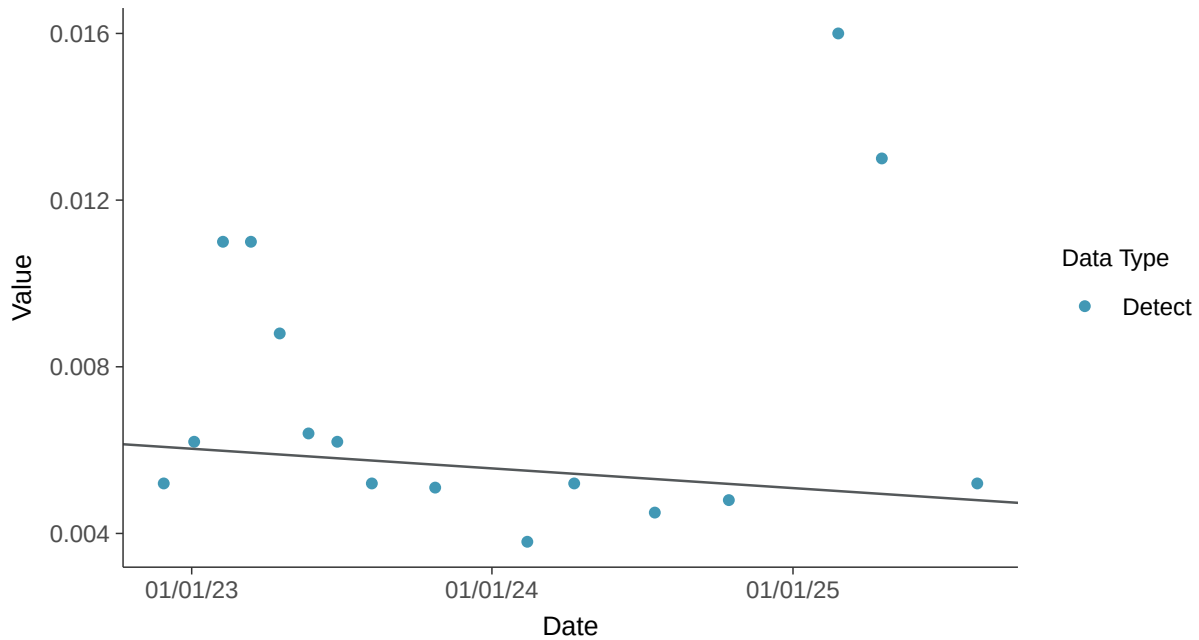
Normal Q-Q plot

Molybdenum, MW-02 (mg/L)



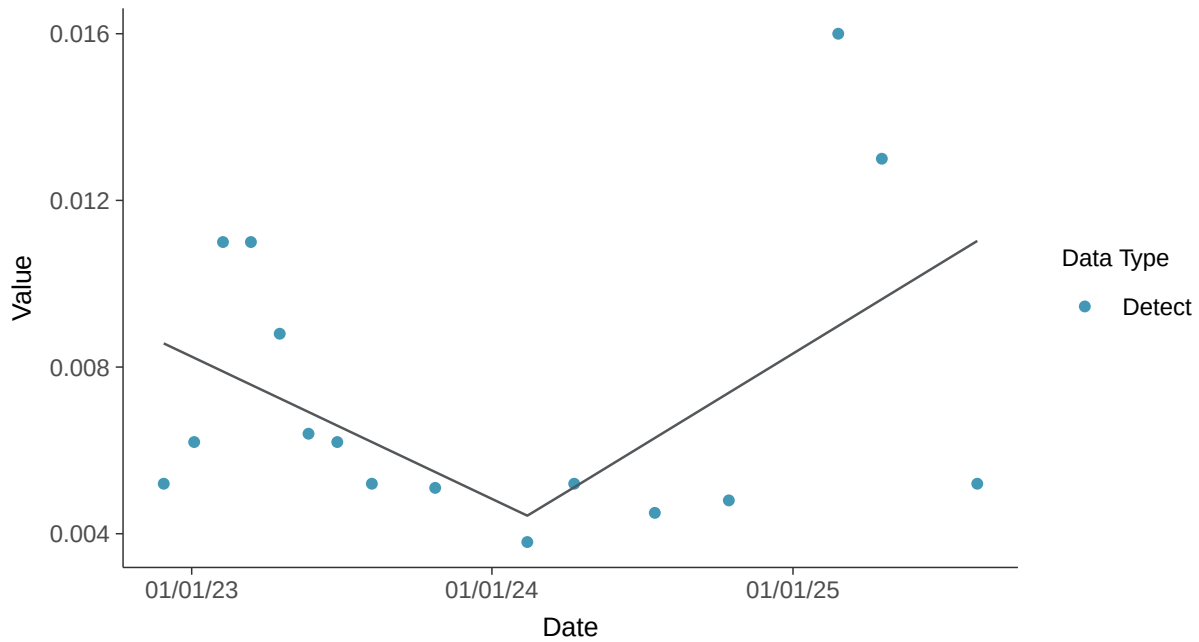
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Molybdenum, MW-02 (mg/L)



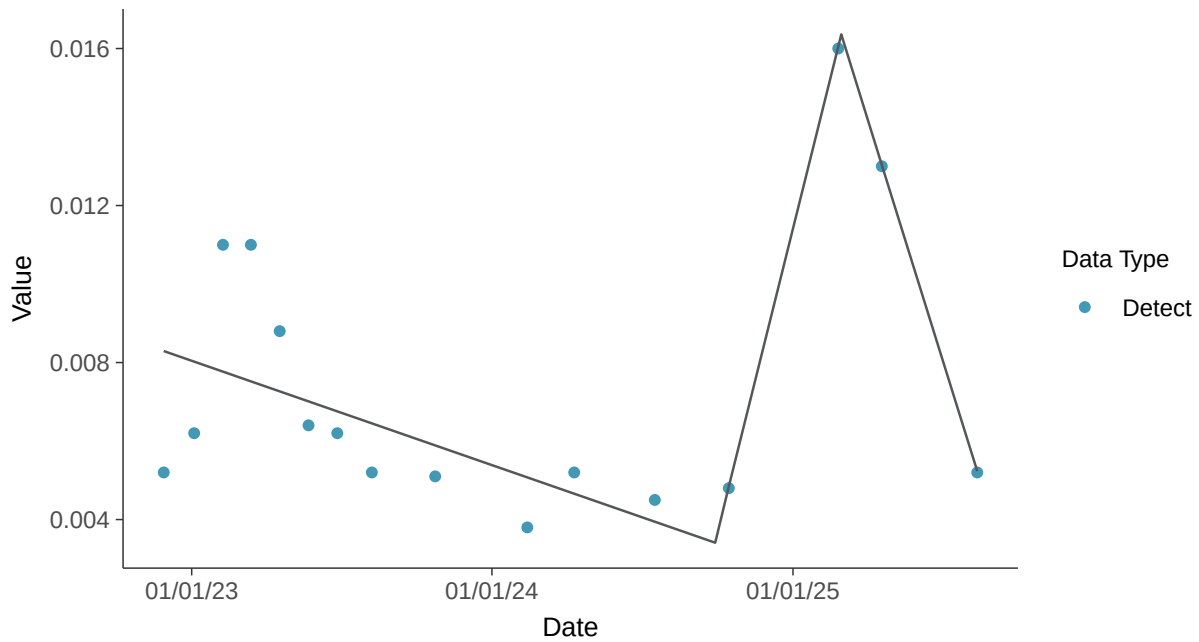
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-02 (mg/L)

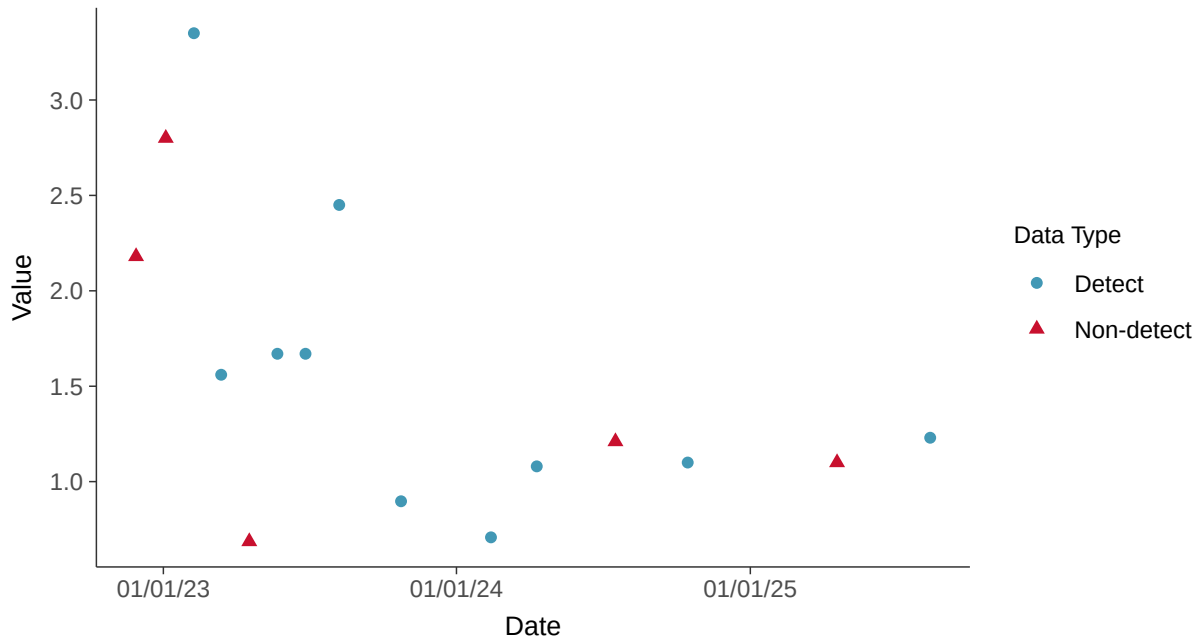


Appendix IV: Radium 226 and 228, MW-02

ID: 12_2_4_121

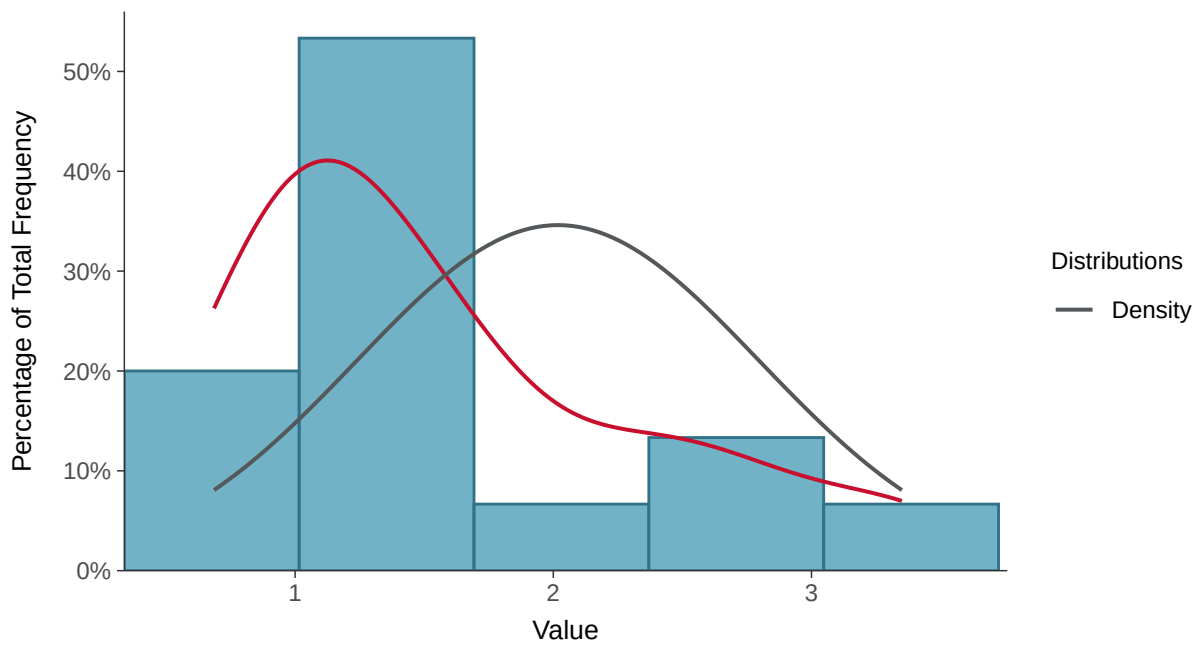
Scatter Plot

Radium 226 and 228, MW-02 (pCi/L)



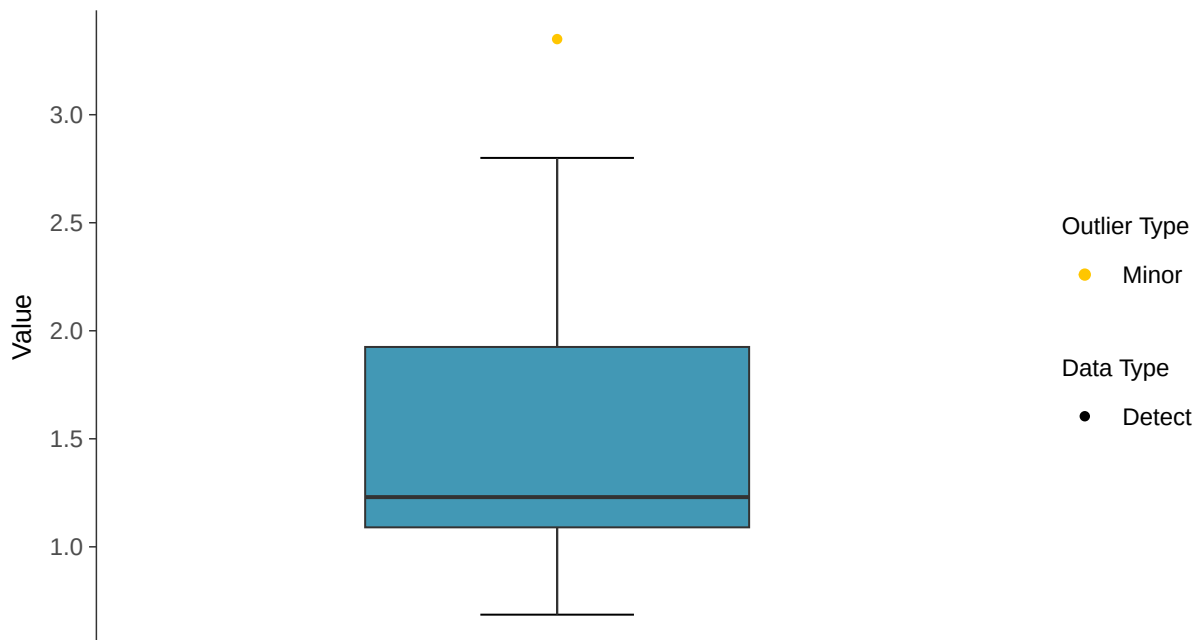
Histogram

Radium 226 and 228, MW-02 (pCi/L)



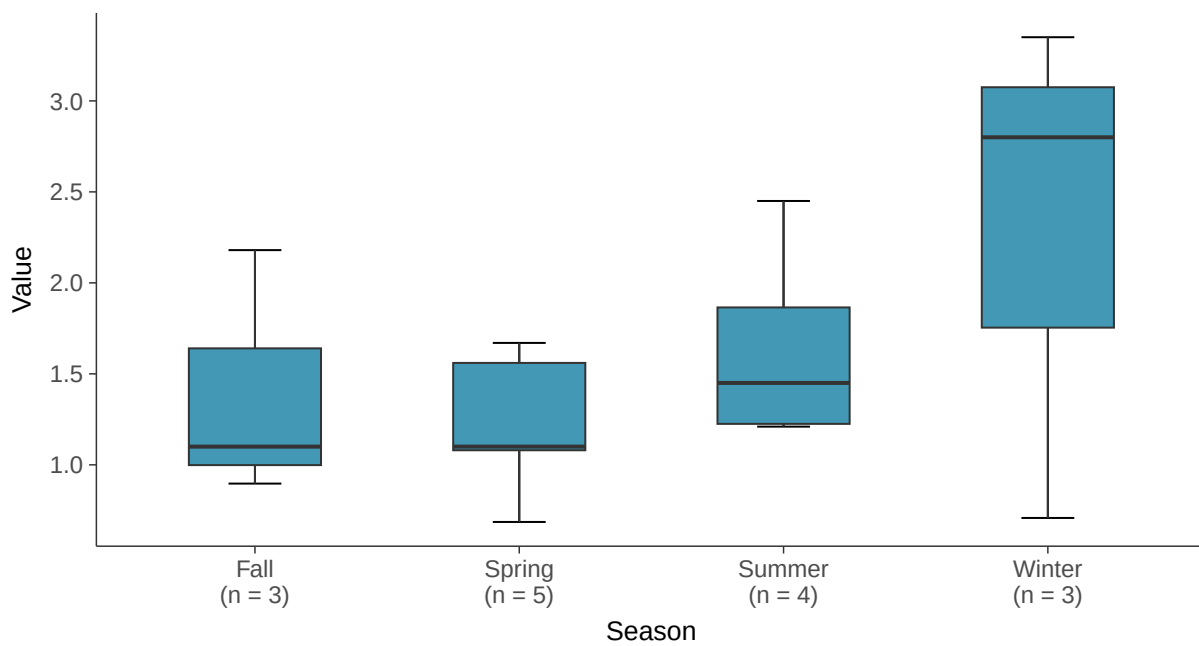
Boxplot

Radium 226 and 228, MW-02 (pCi/L)



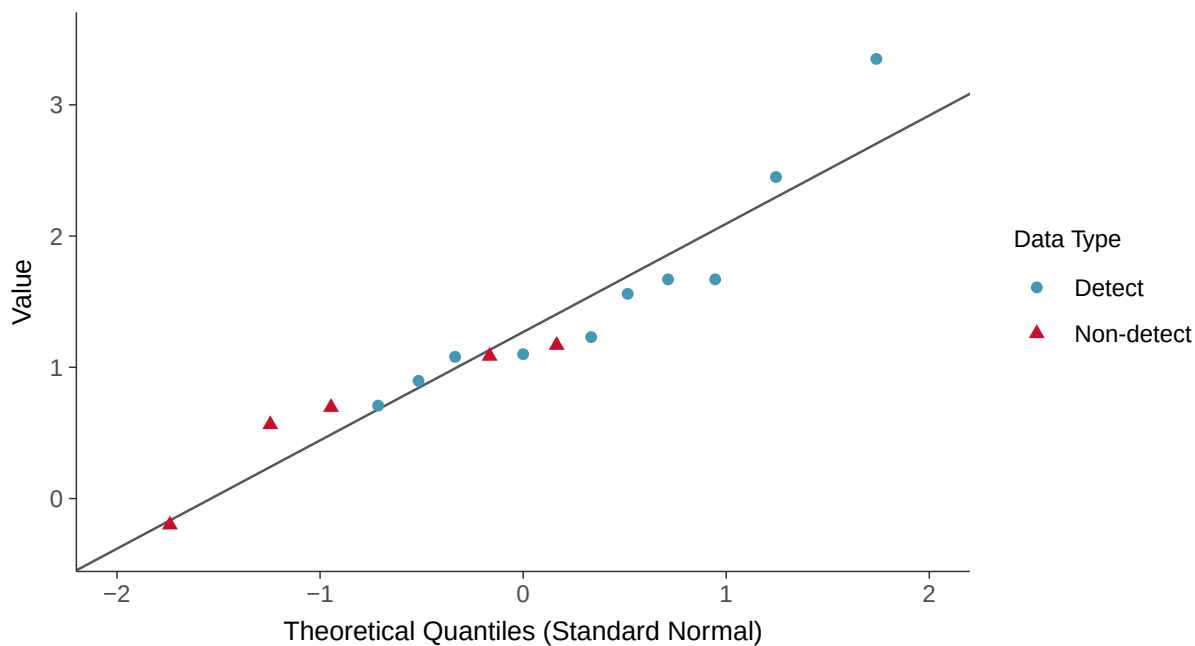
Boxplot by Season

Radium 226 and 228, MW-02 (pCi/L)



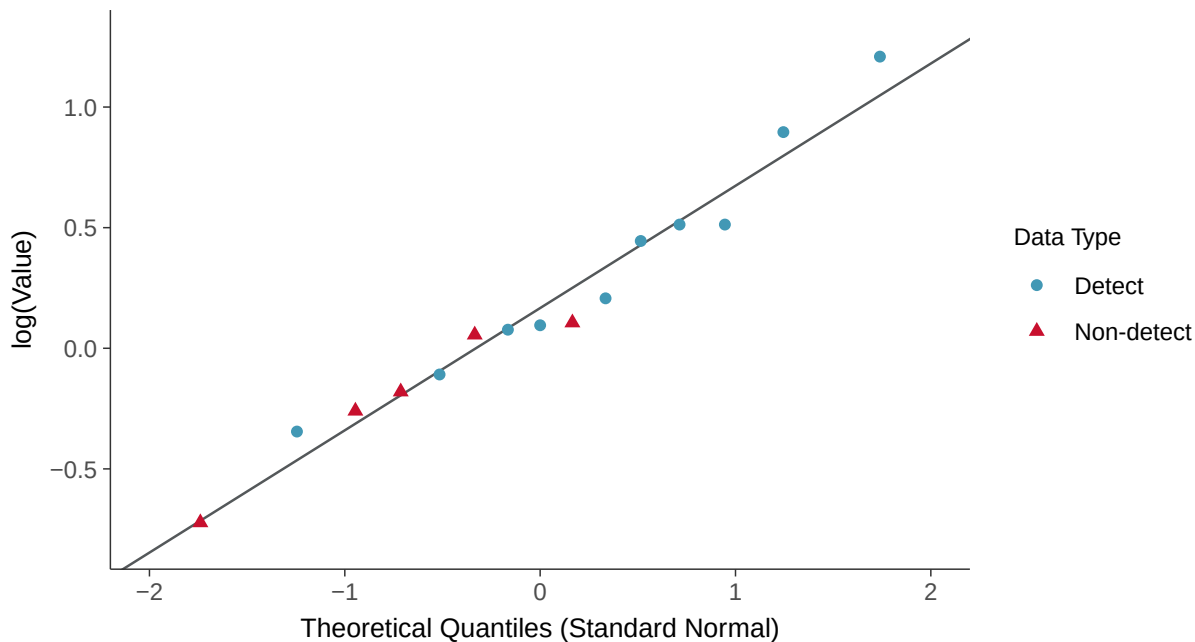
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



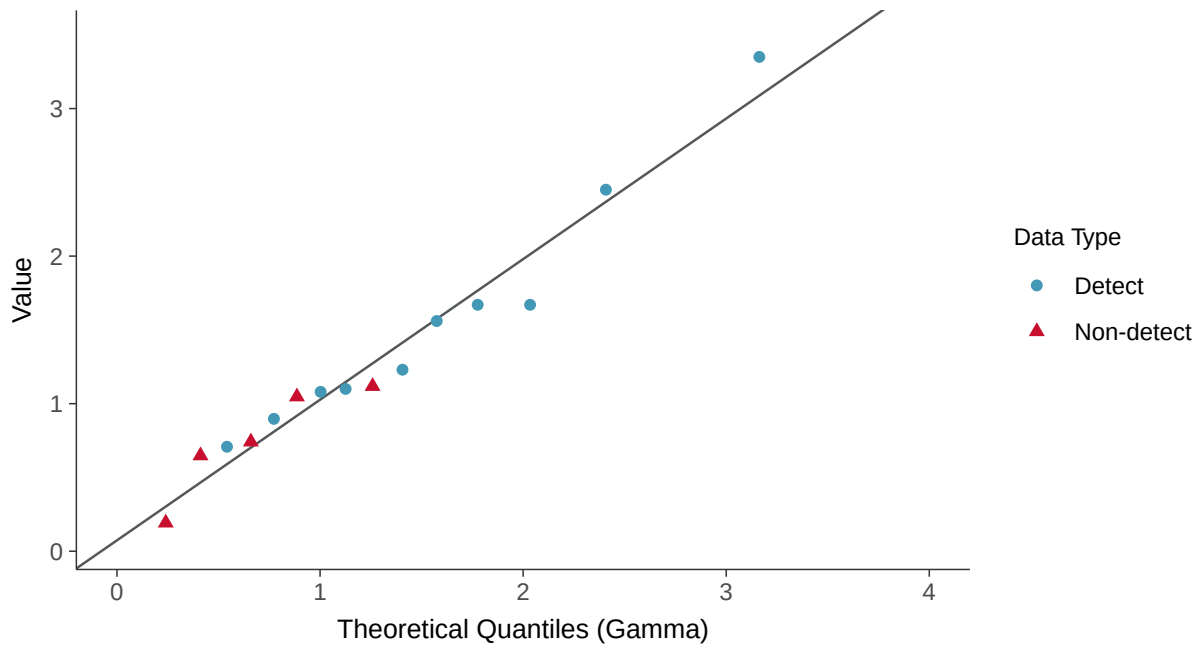
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



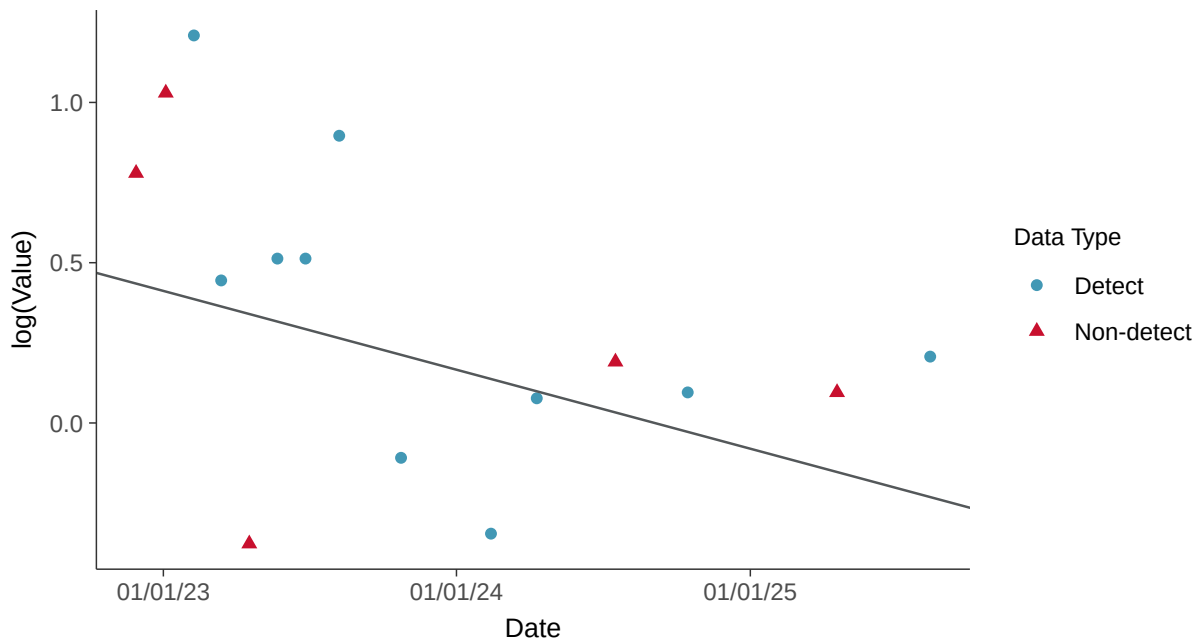
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



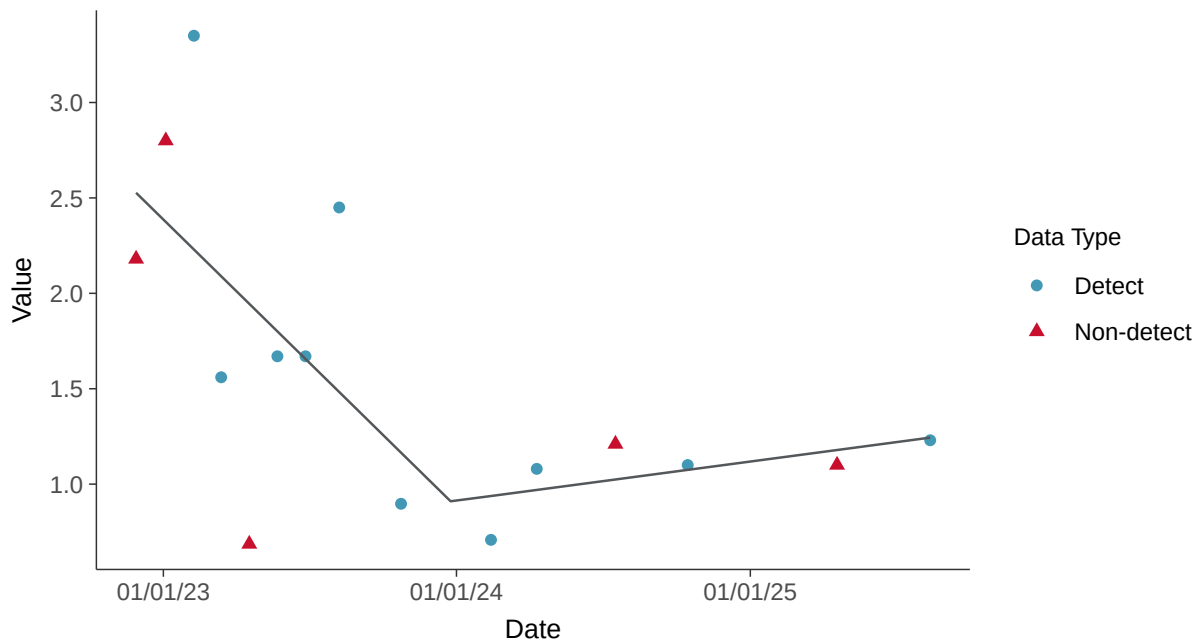
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-02 (pCi/L)



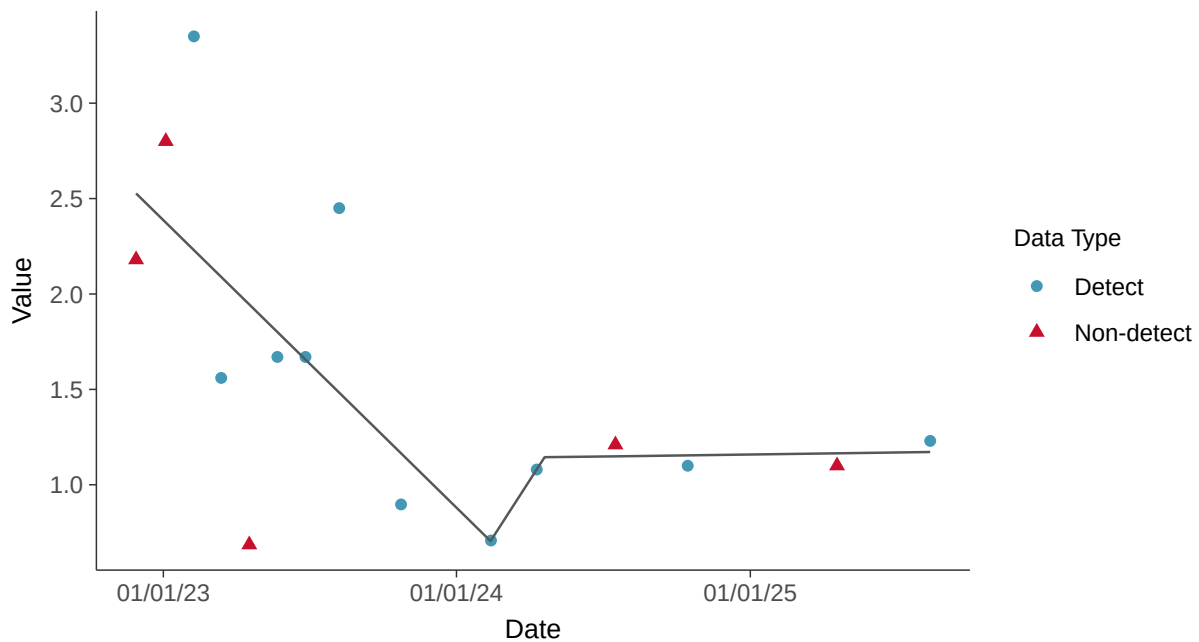
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-02 (pCi/L)



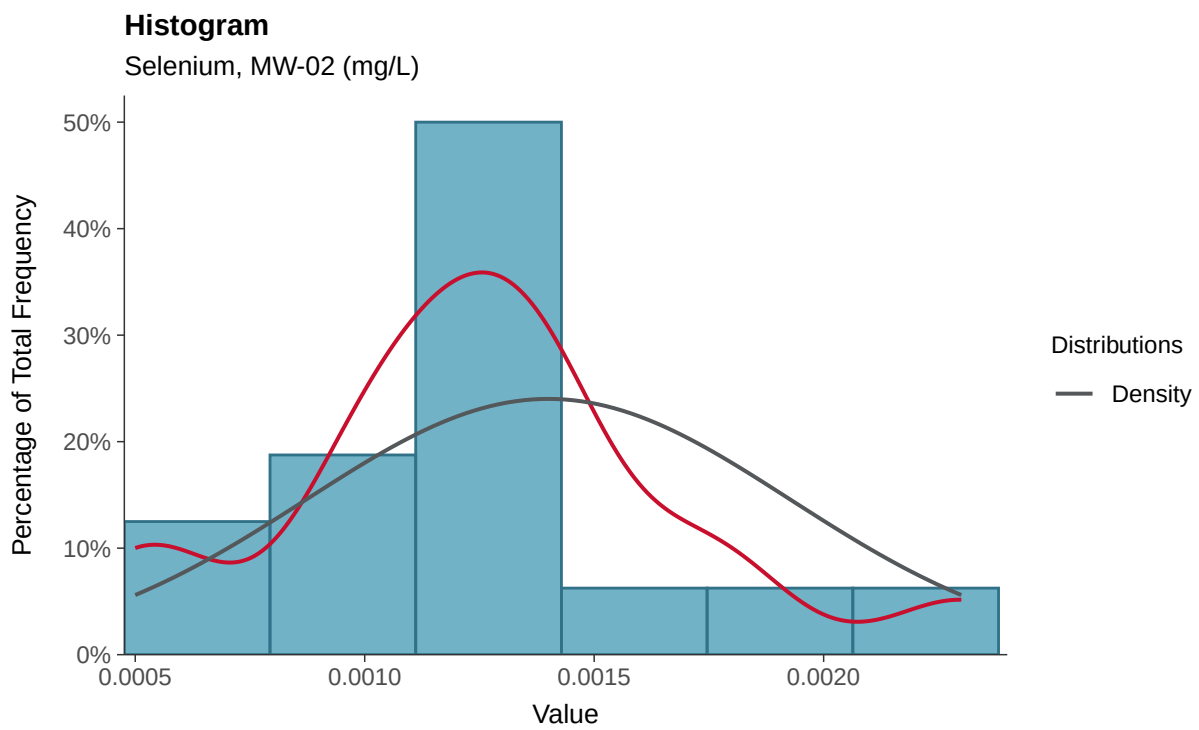
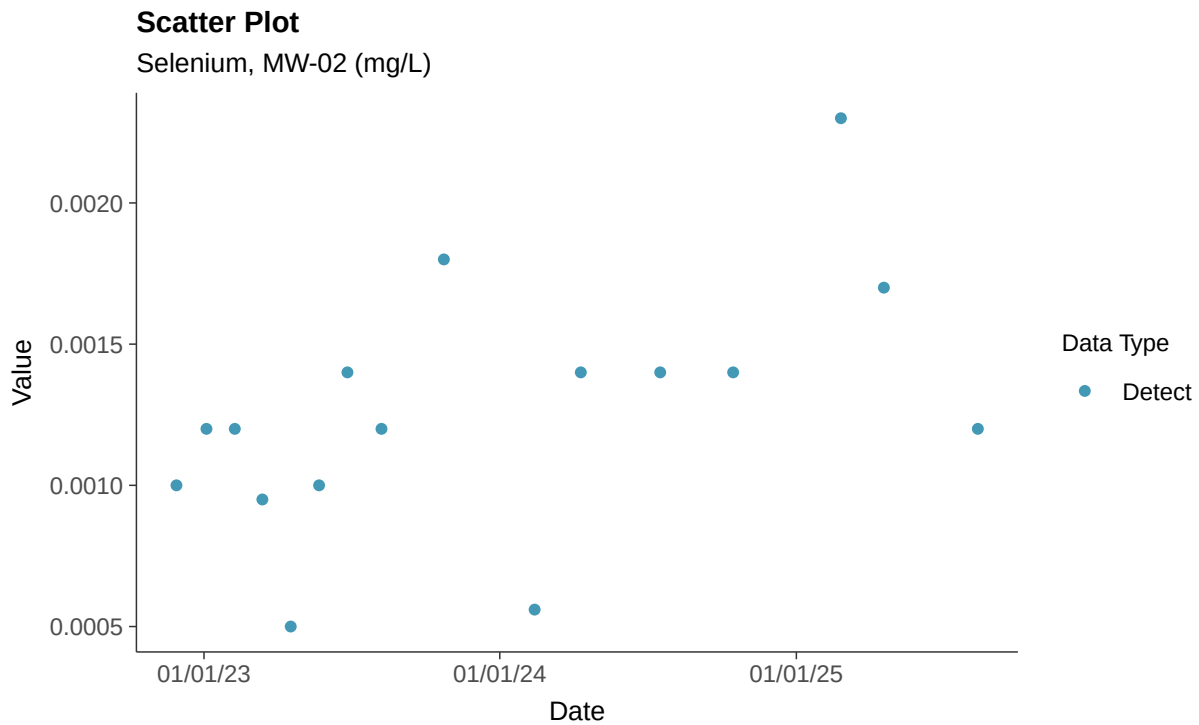
Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-02 (pCi/L)



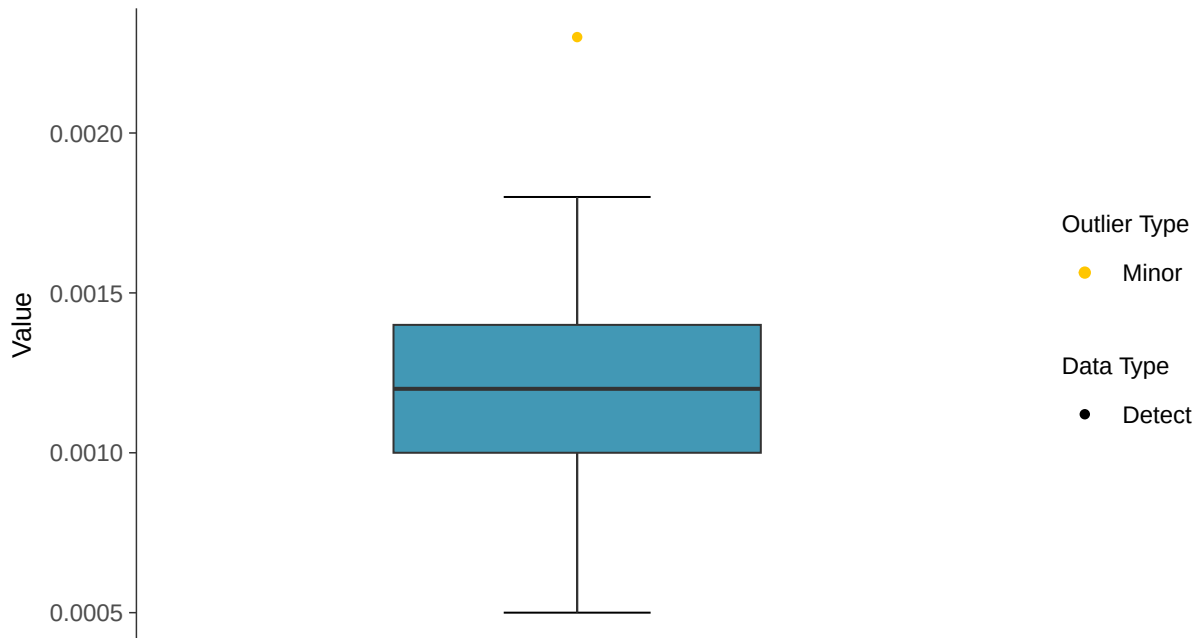
Appendix IV: Selenium, MW-02

ID: 12_2_4_122



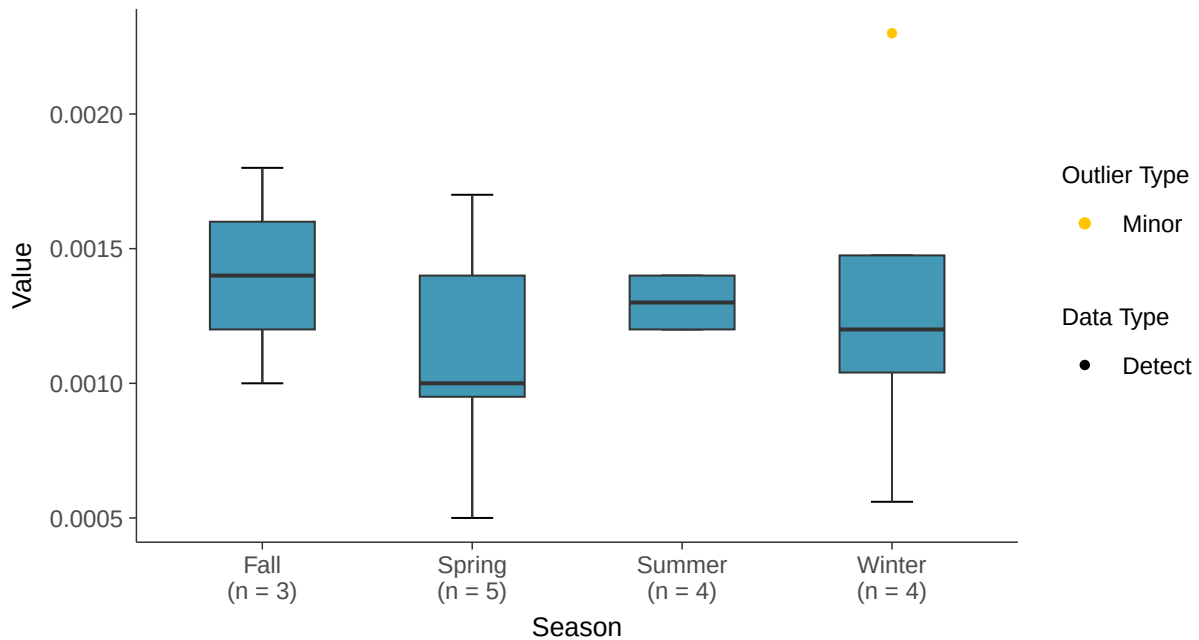
Boxplot

Selenium, MW-02 (mg/L)



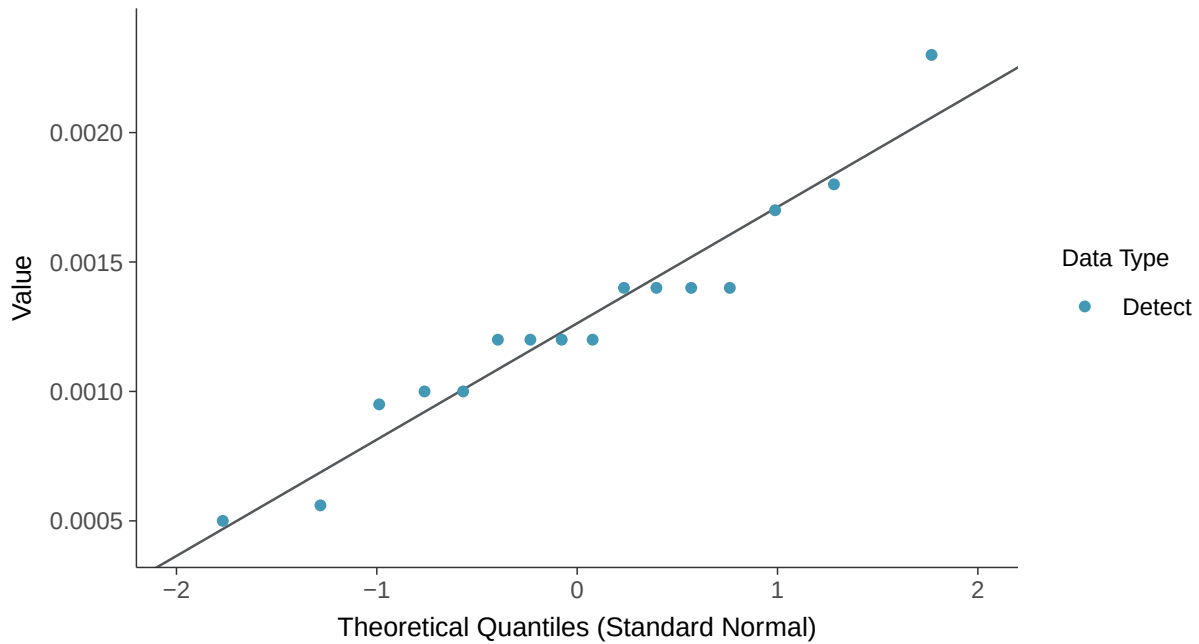
Boxplot by Season

Selenium, MW-02 (mg/L)



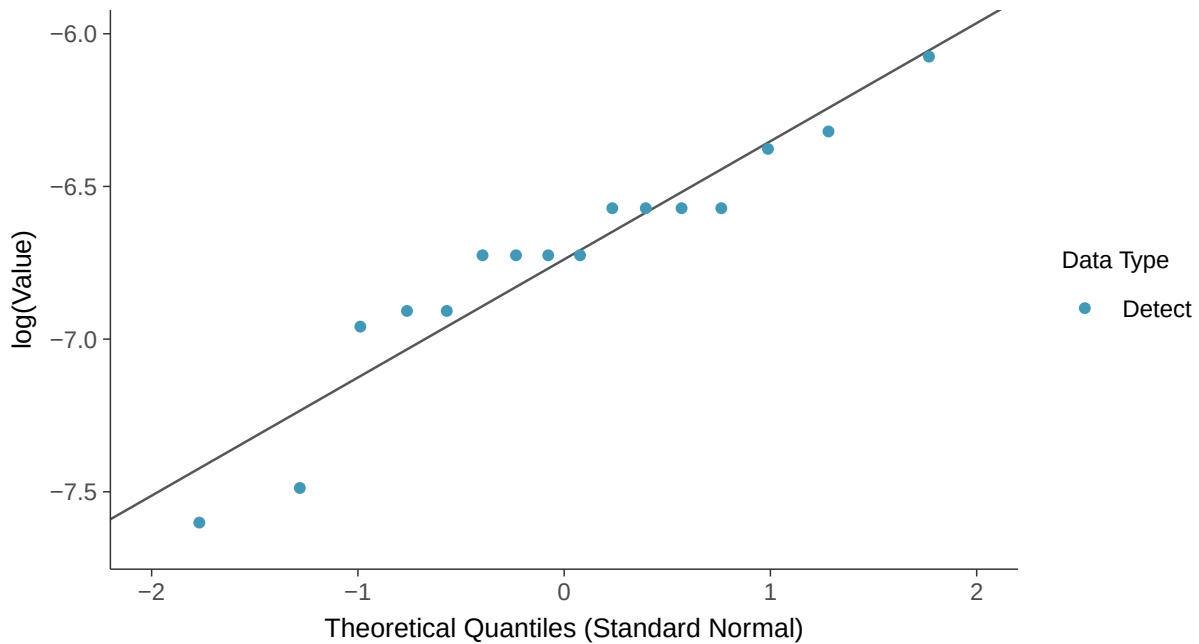
Normal Q-Q plot

Selenium, MW-02 (mg/L)



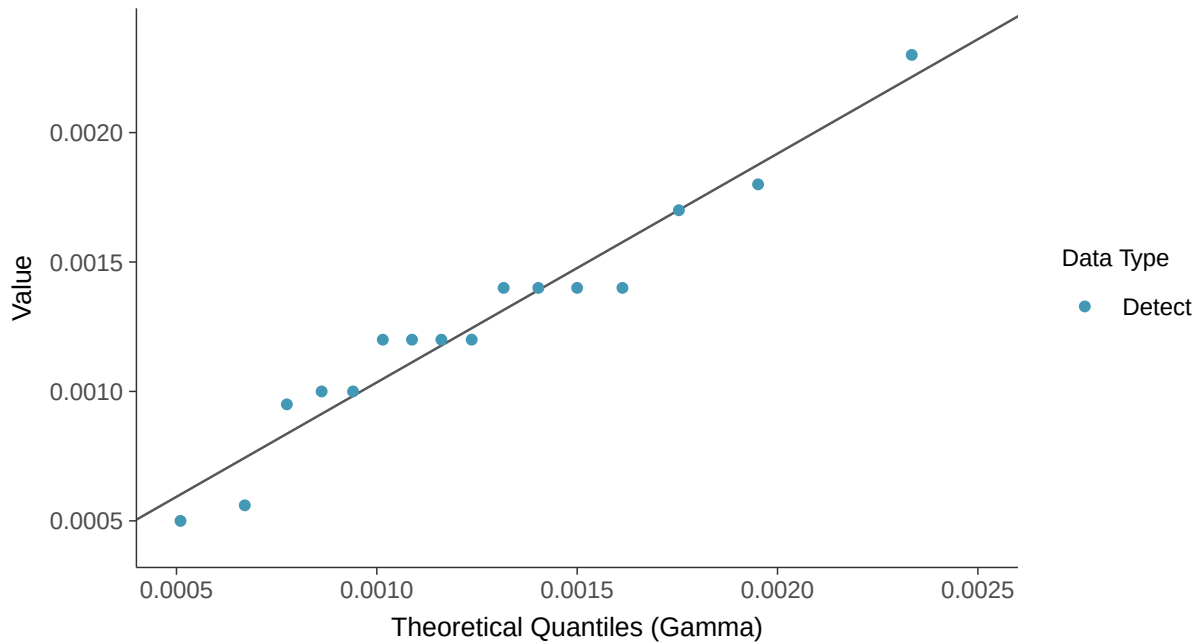
Lognormal Q-Q plot

Selenium, MW-02 (mg/L)



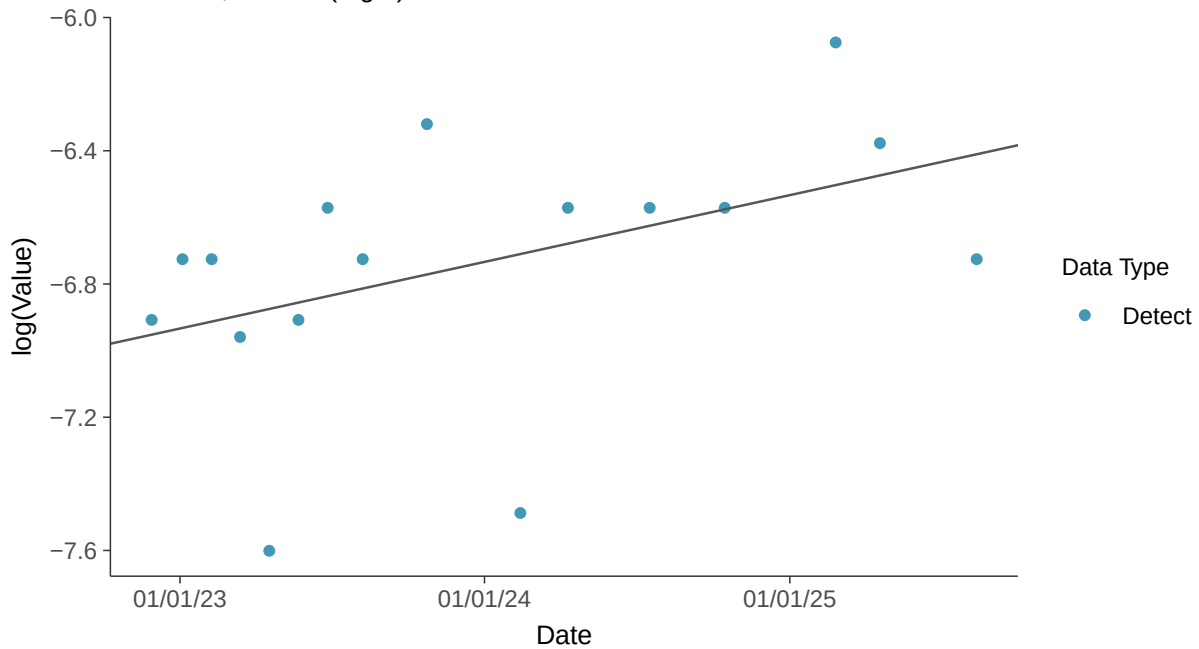
Gamma Q-Q plot

Selenium, MW-02 (mg/L)



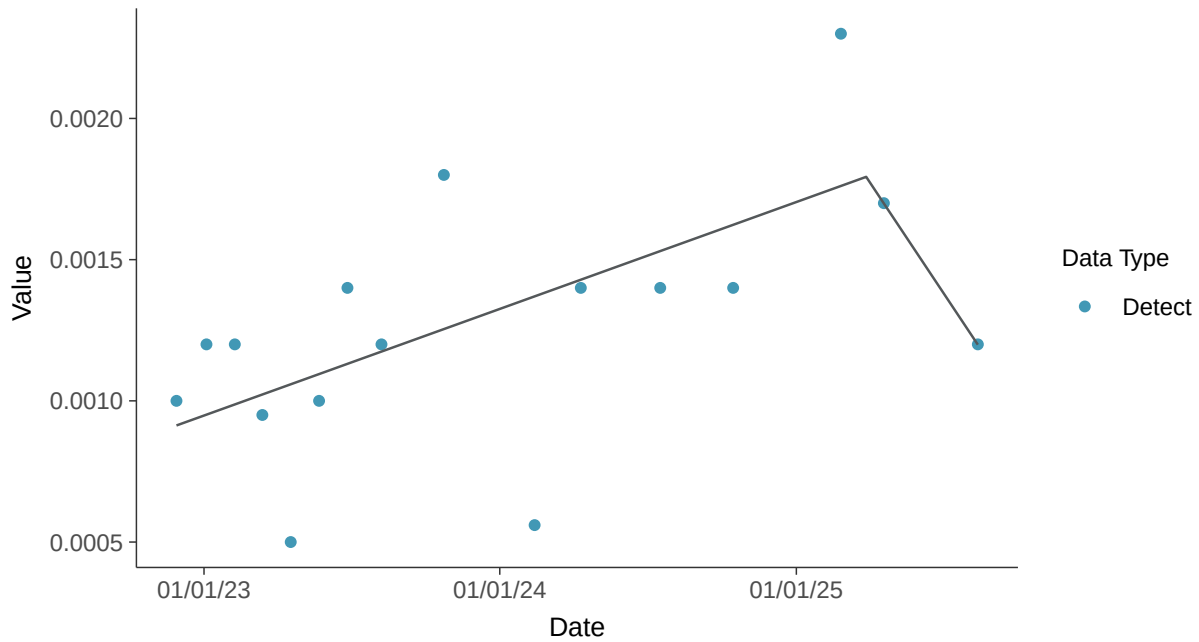
Trend Regression: Lognormal MLE

Selenium, MW-02 (mg/L)



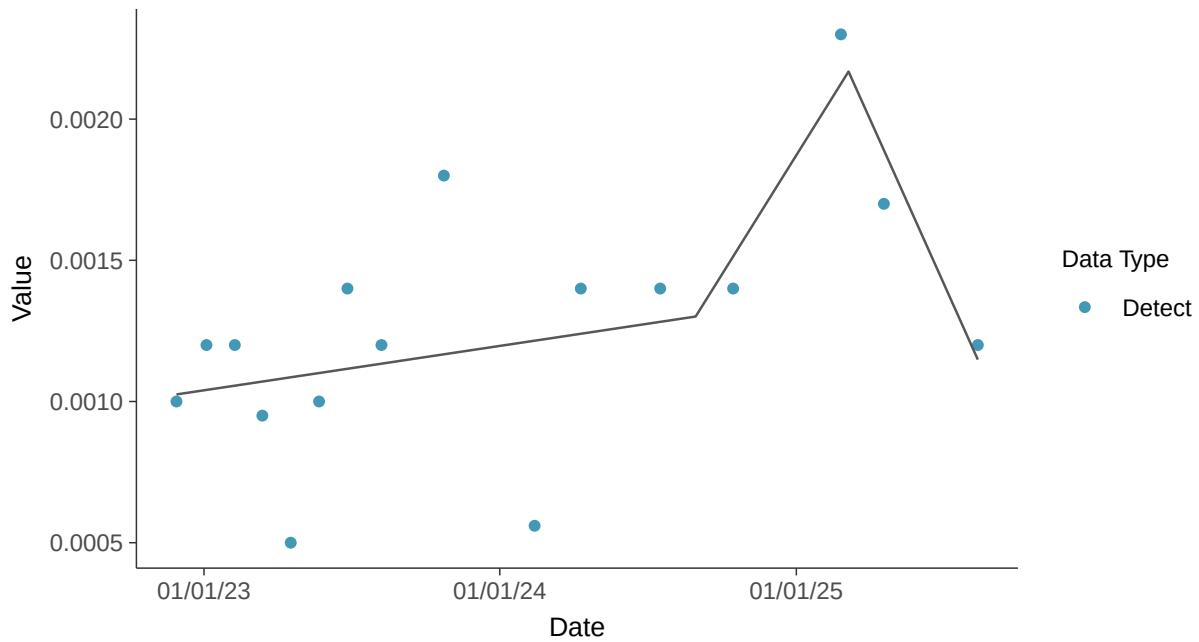
Trend Regression: Piecewise Linear-Linear

Selenium, MW-02 (mg/L)



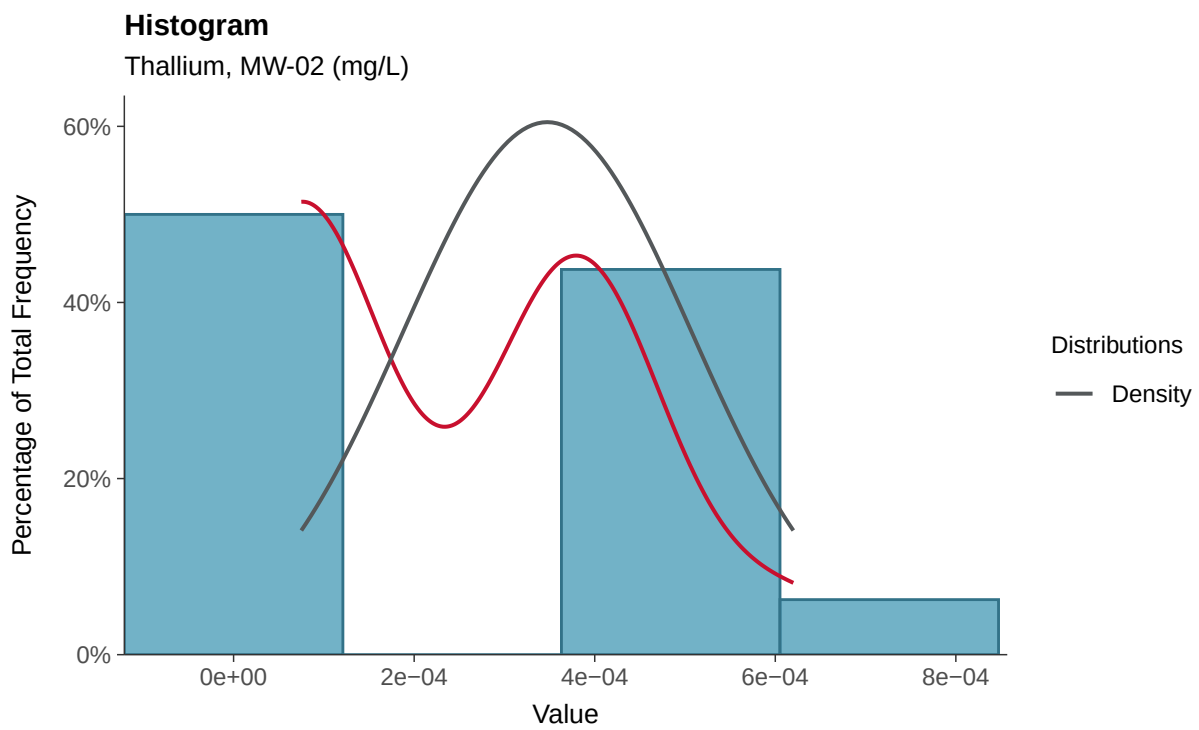
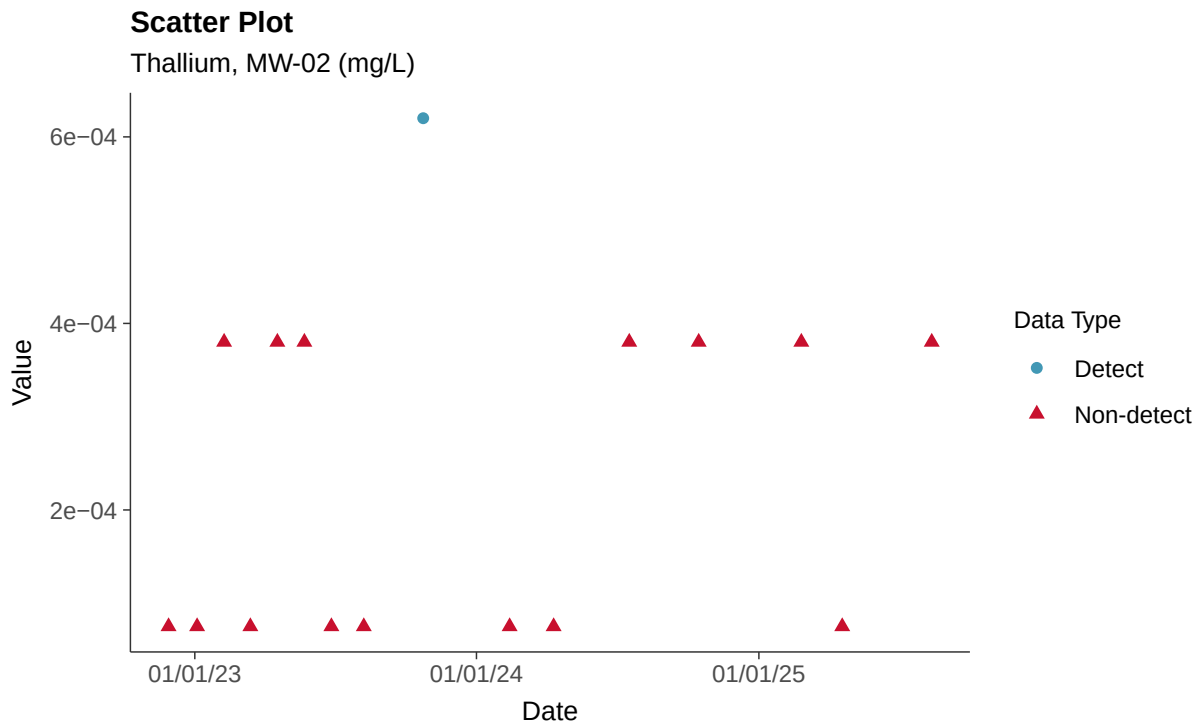
Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-02 (mg/L)



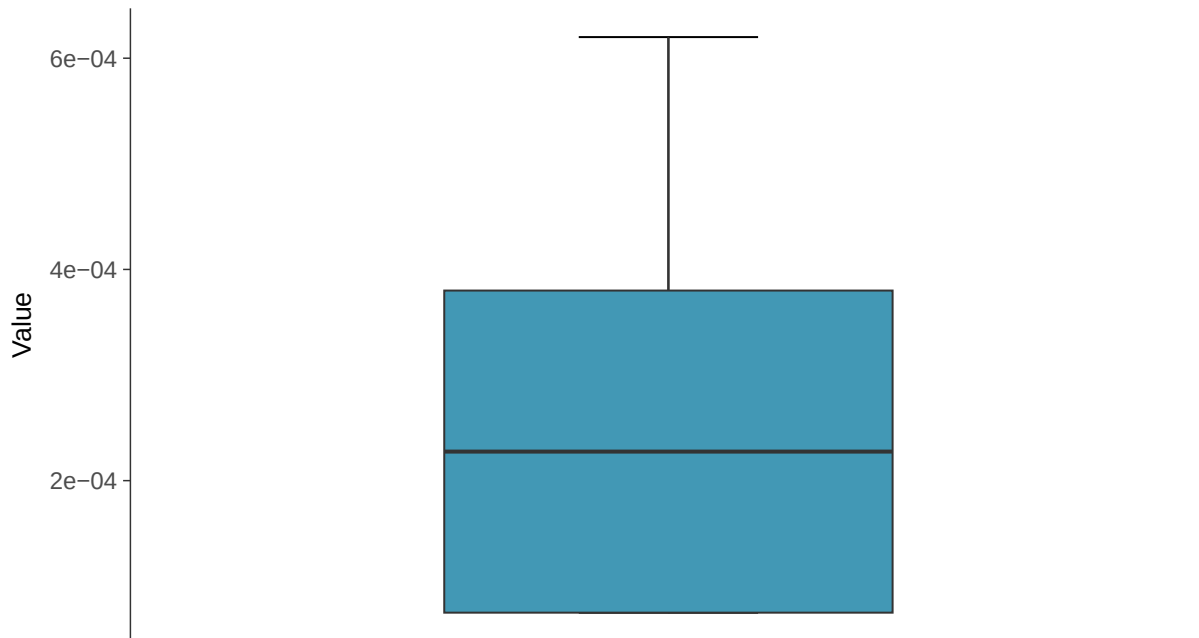
Appendix IV: Thallium, MW-02

ID: 12_2_4_125



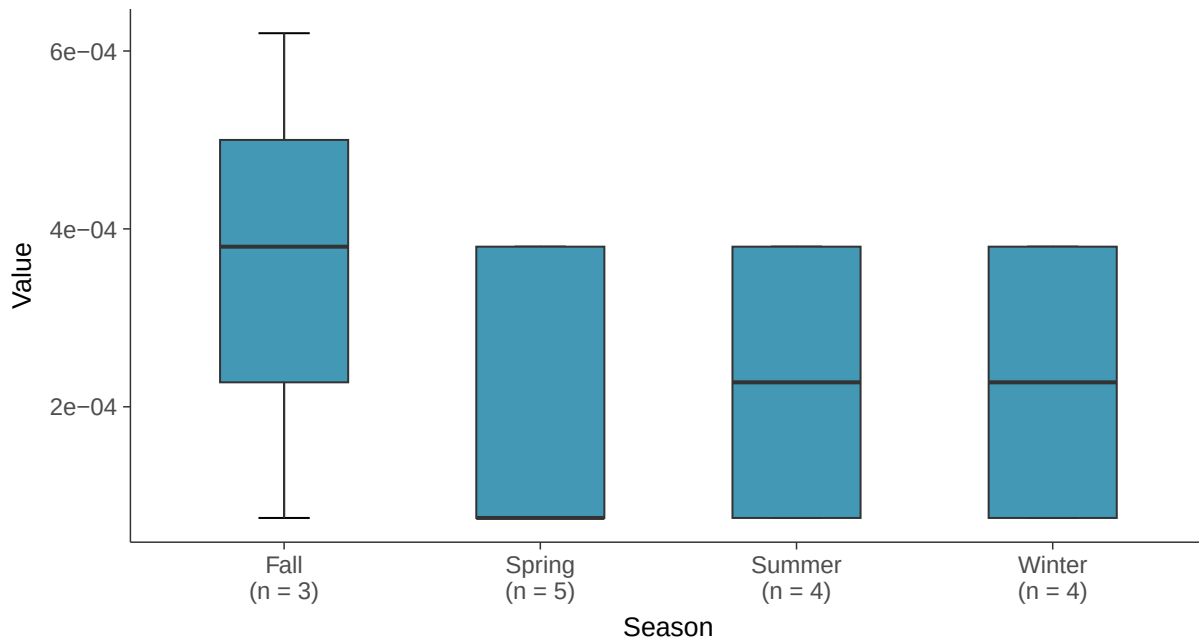
Boxplot

Thallium, MW-02 (mg/L)



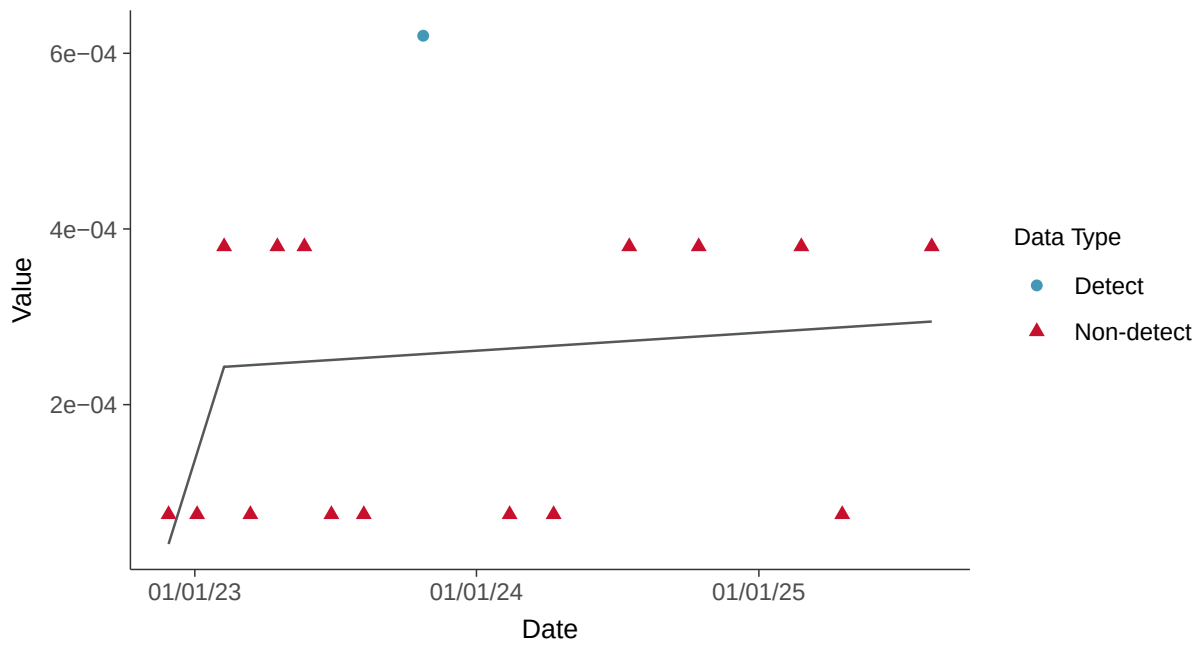
Boxplot by Season

Thallium, MW-02 (mg/L)





Trend Regression: Piecewise Linear-Linear
Thallium, MW-02 (mg/L)

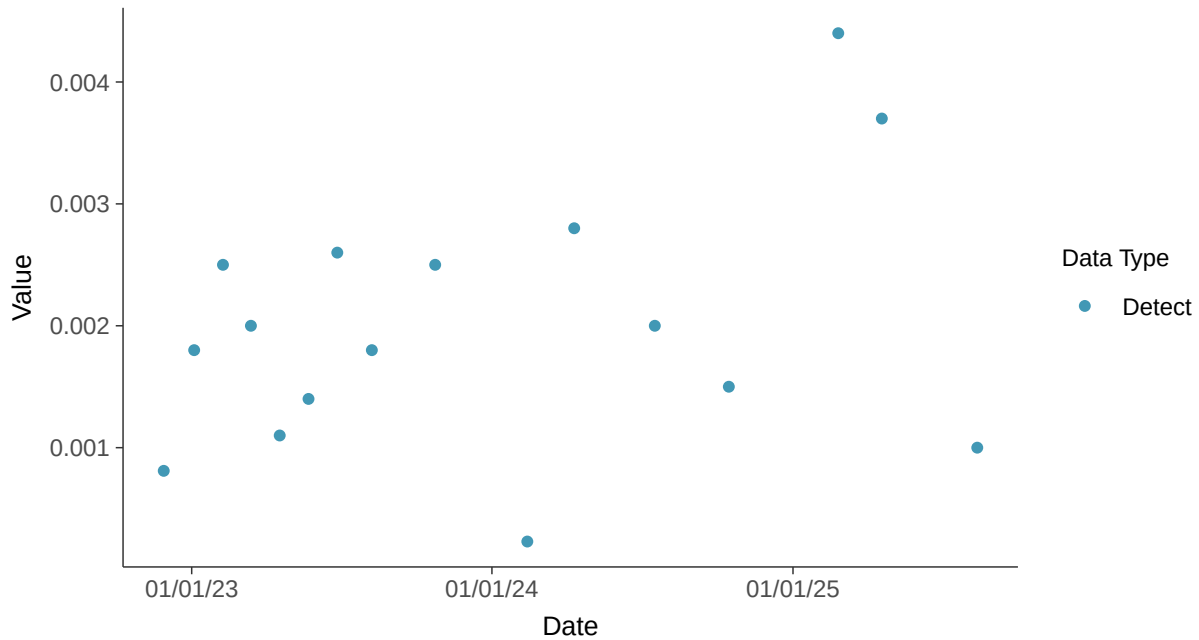


Part 115: Copper, MW-02

ID: 12_2_5_111

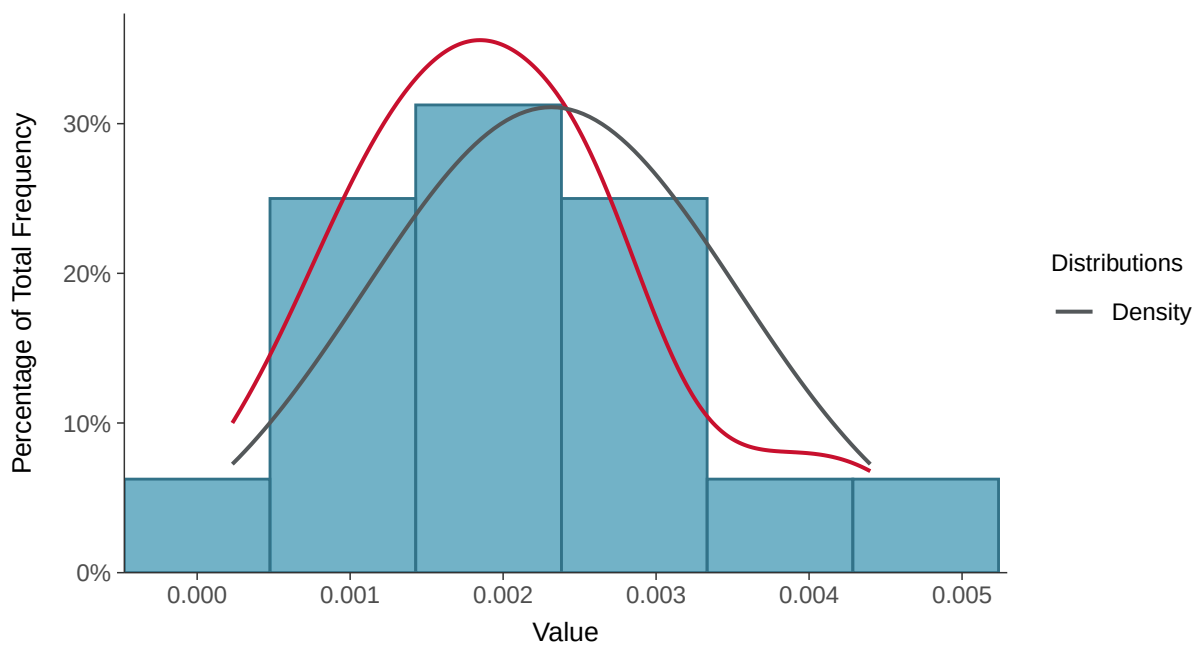
Scatter Plot

Copper, MW-02 (mg/L)



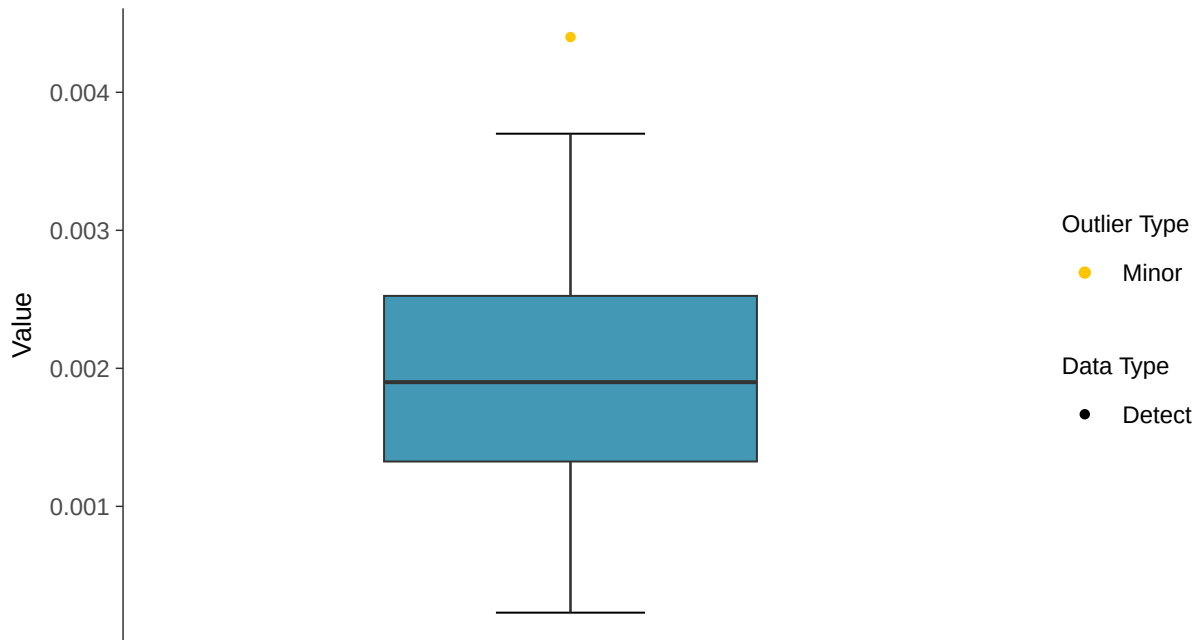
Histogram

Copper, MW-02 (mg/L)



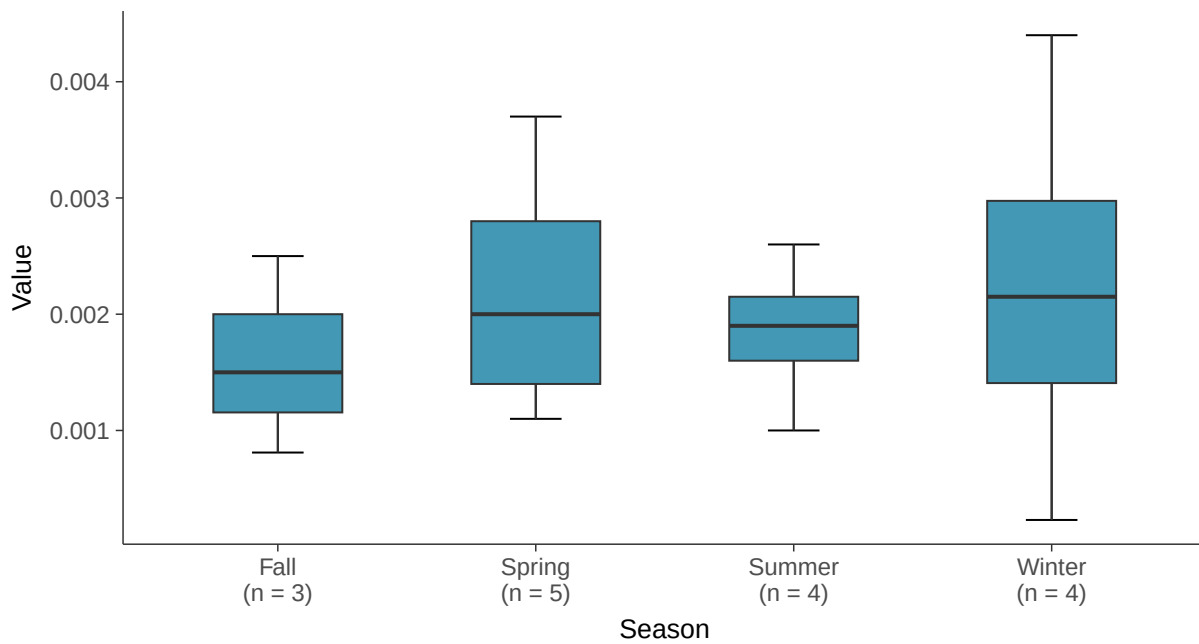
Boxplot

Copper, MW-02 (mg/L)



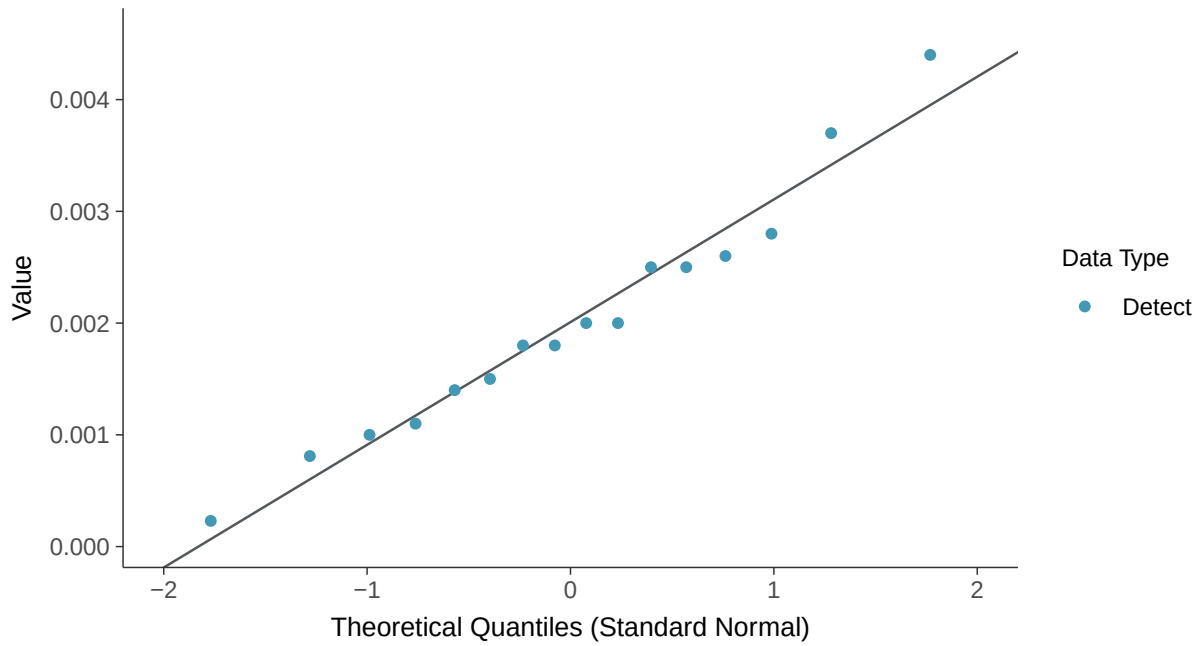
Boxplot by Season

Copper, MW-02 (mg/L)



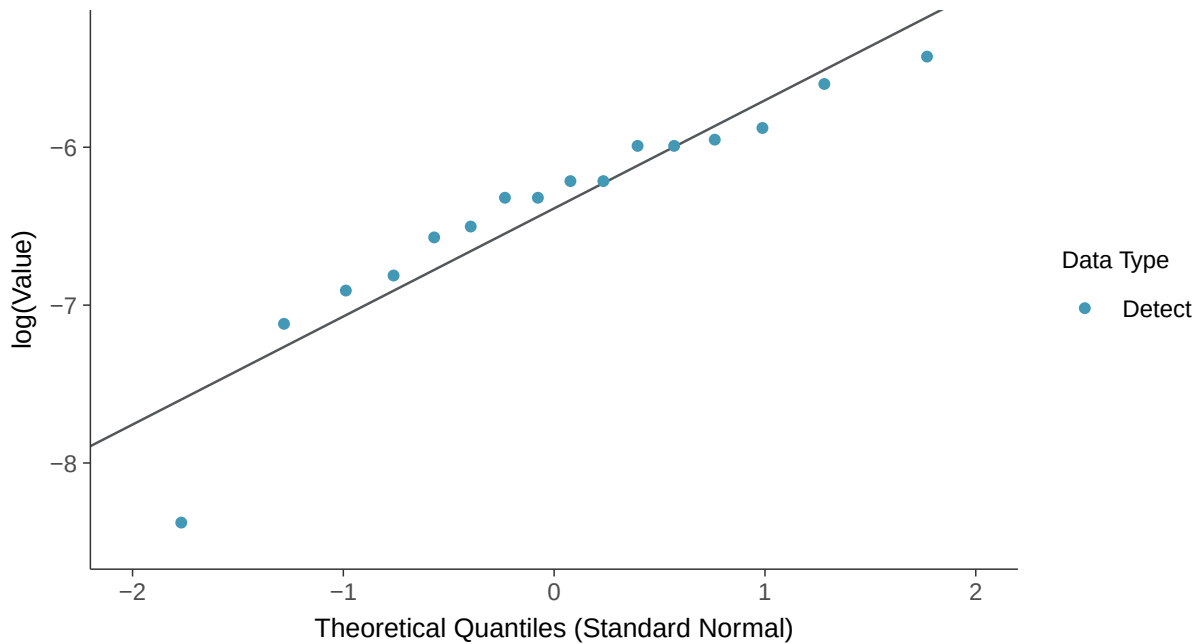
Normal Q-Q plot

Copper, MW-02 (mg/L)



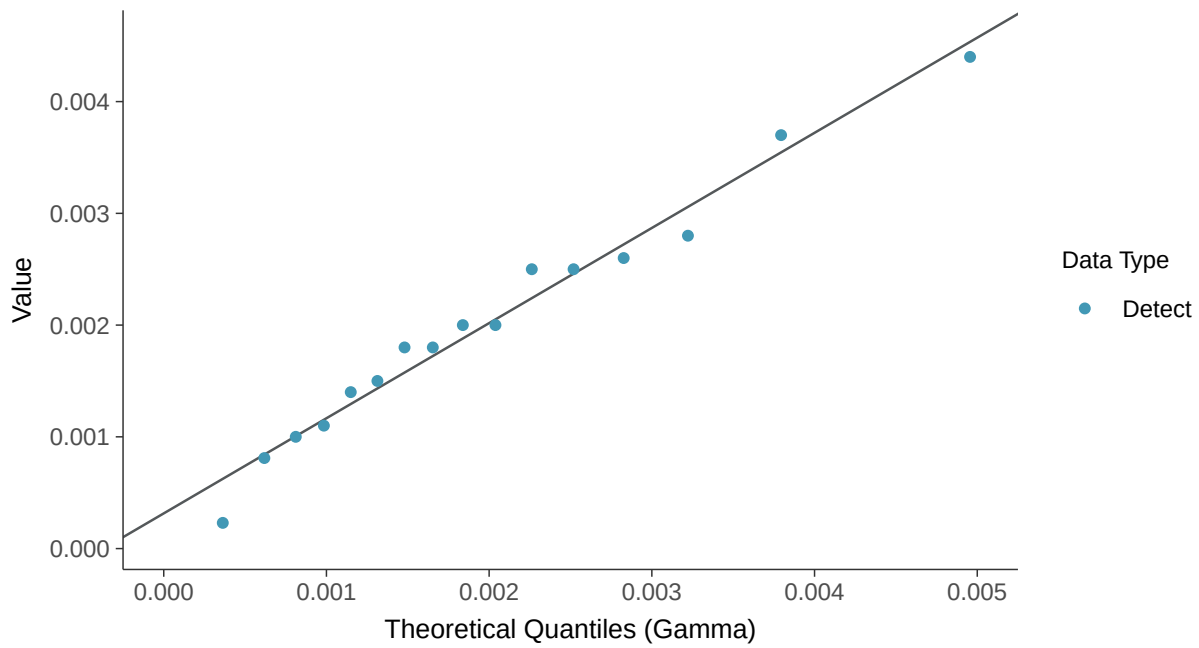
Lognormal Q-Q plot

Copper, MW-02 (mg/L)



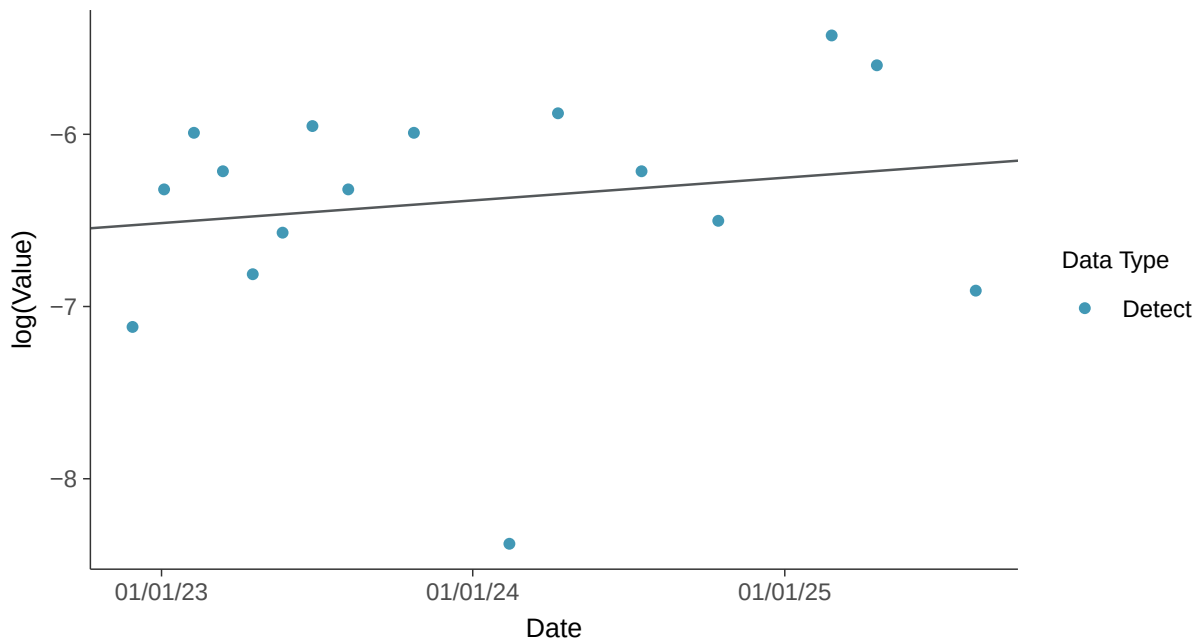
Gamma Q-Q plot

Copper, MW-02 (mg/L)



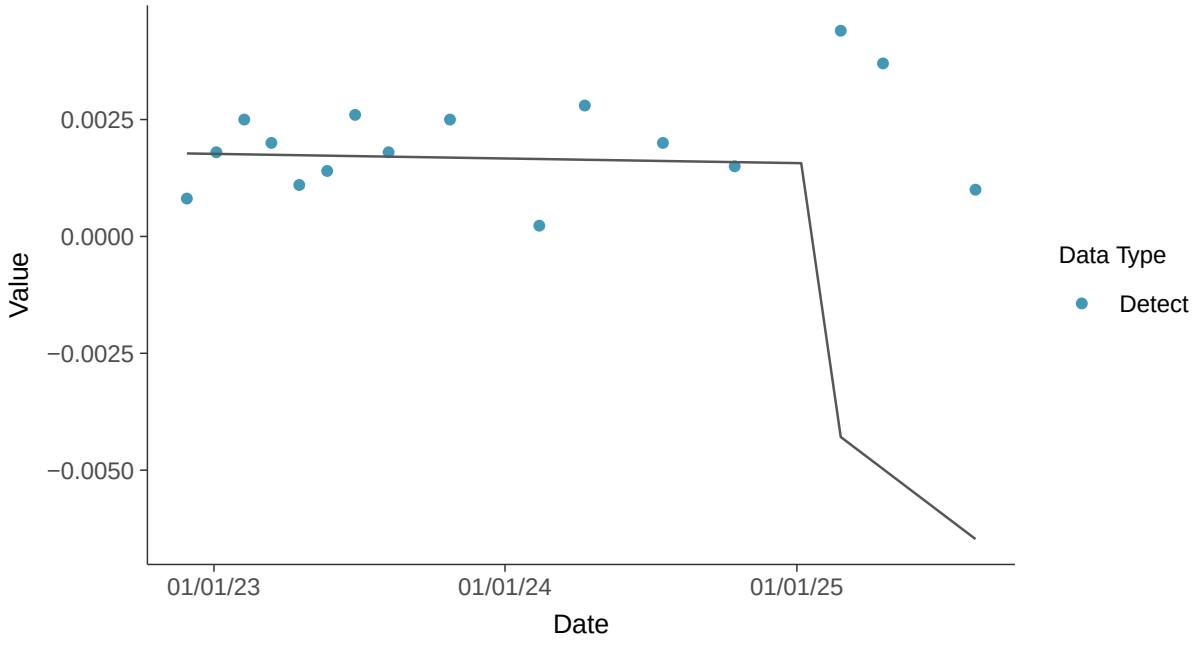
Trend Regression: Lognormal MLE

Copper, MW-02 (mg/L)



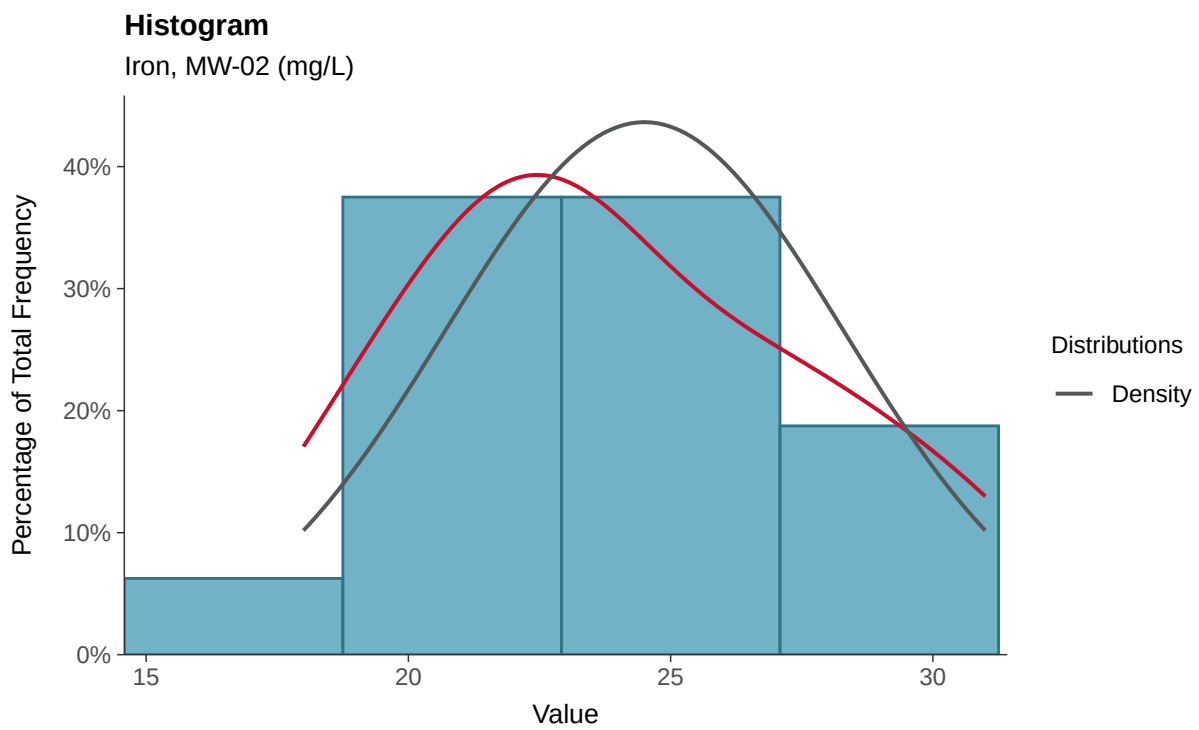
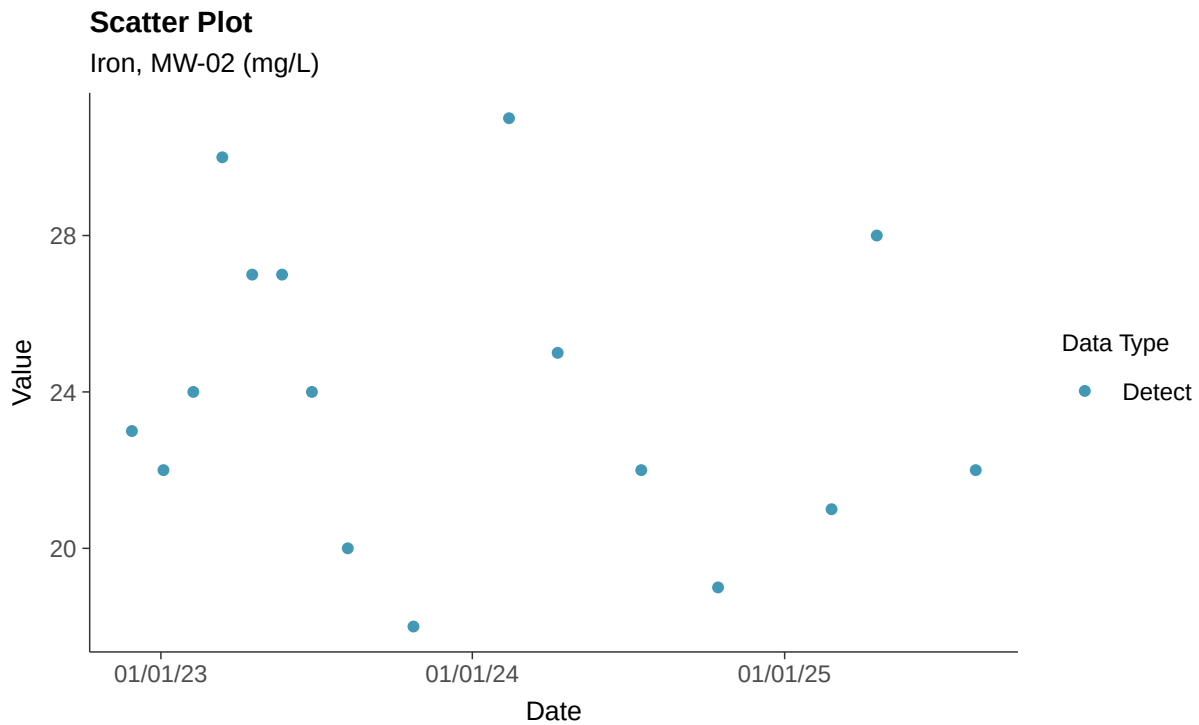


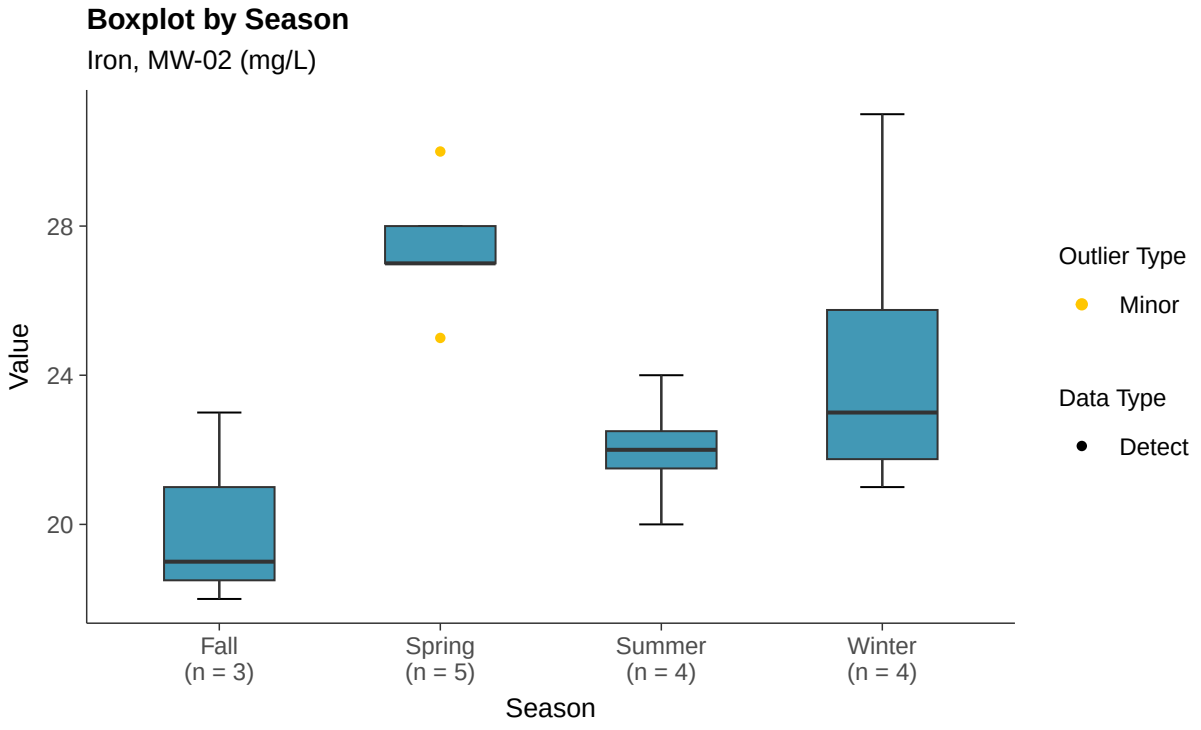
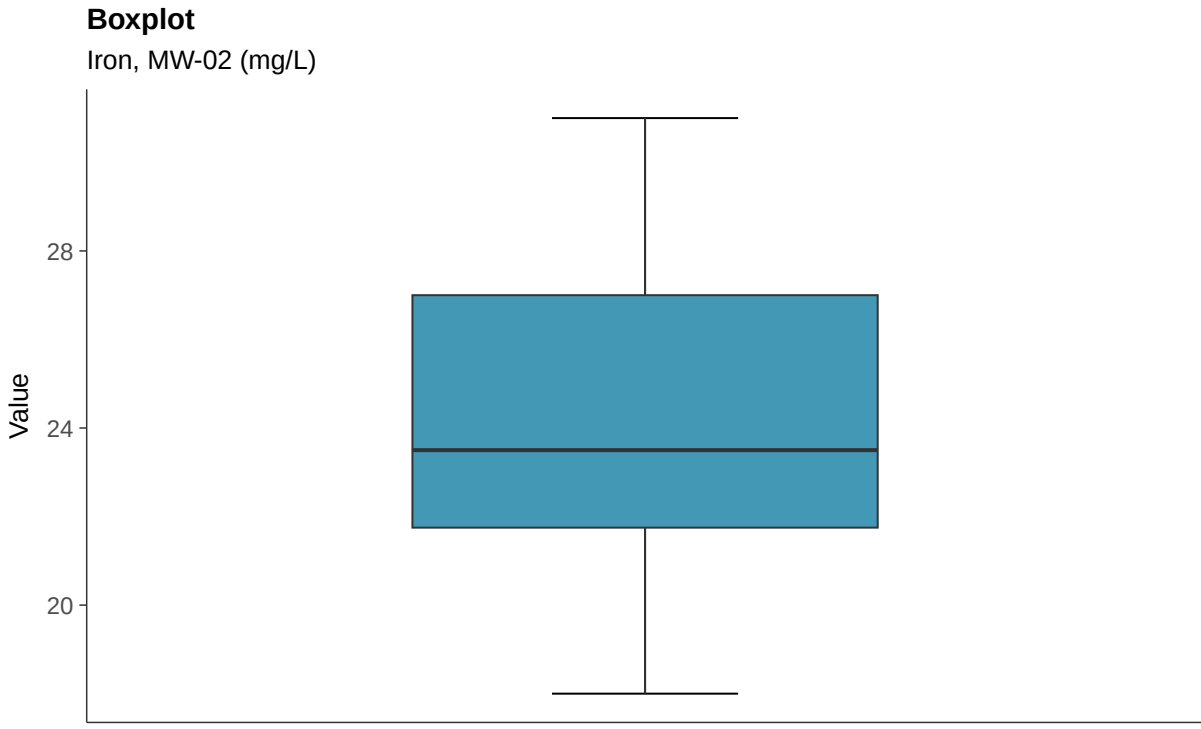
Trend Regression: Piecewise Linear-Linear-Linear
Copper, MW-02 (mg/L)



Part 115: Iron, MW-02

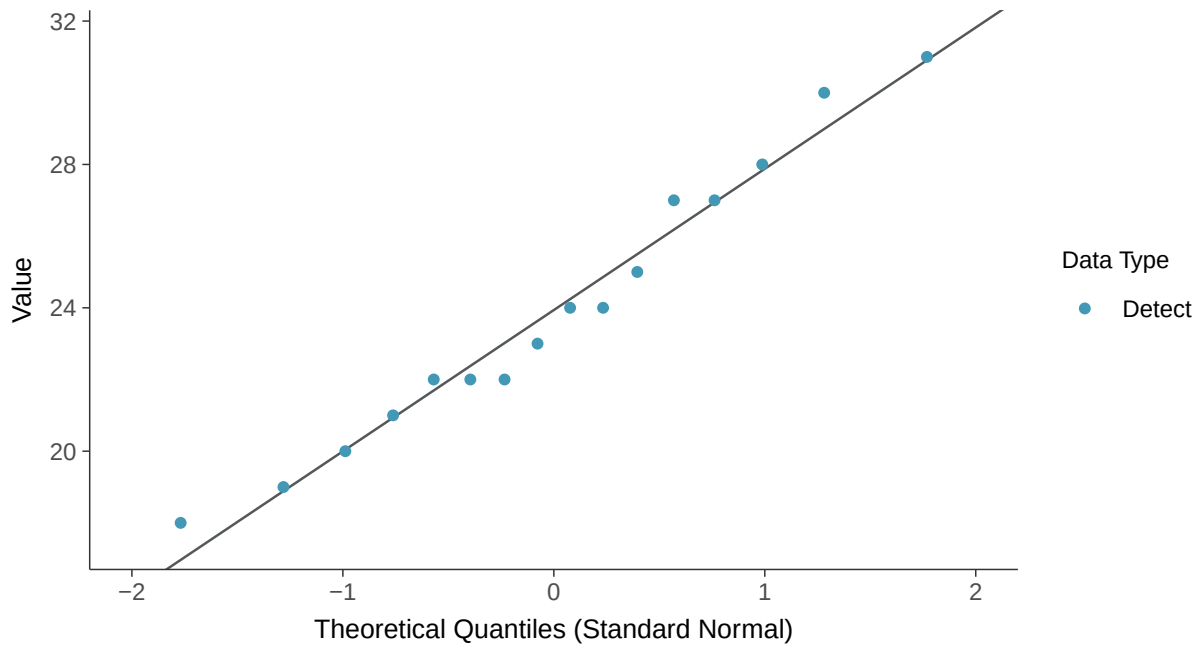
ID: 12_2_5_114





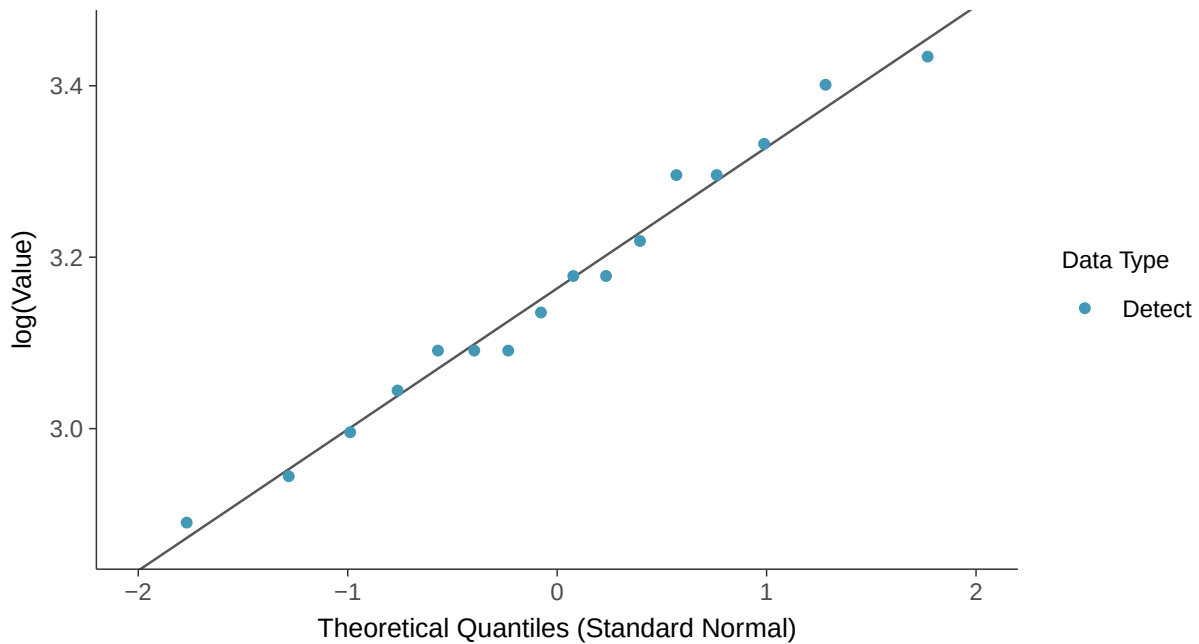
Normal Q-Q plot

Iron, MW-02 (mg/L)



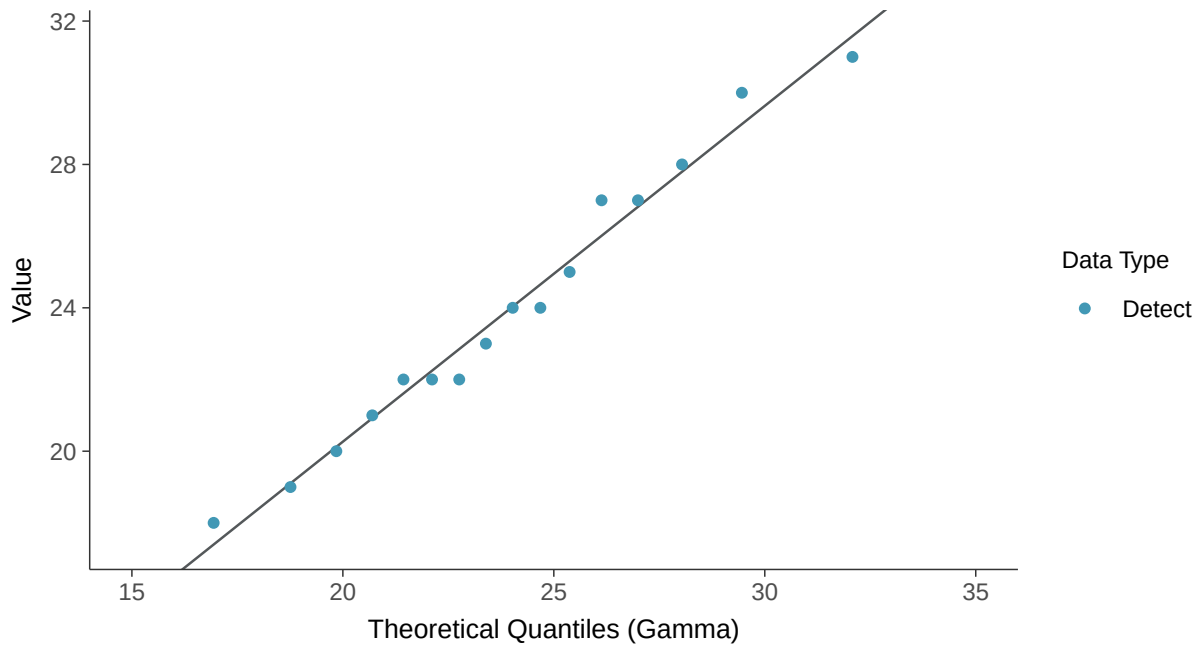
Lognormal Q-Q plot

Iron, MW-02 (mg/L)



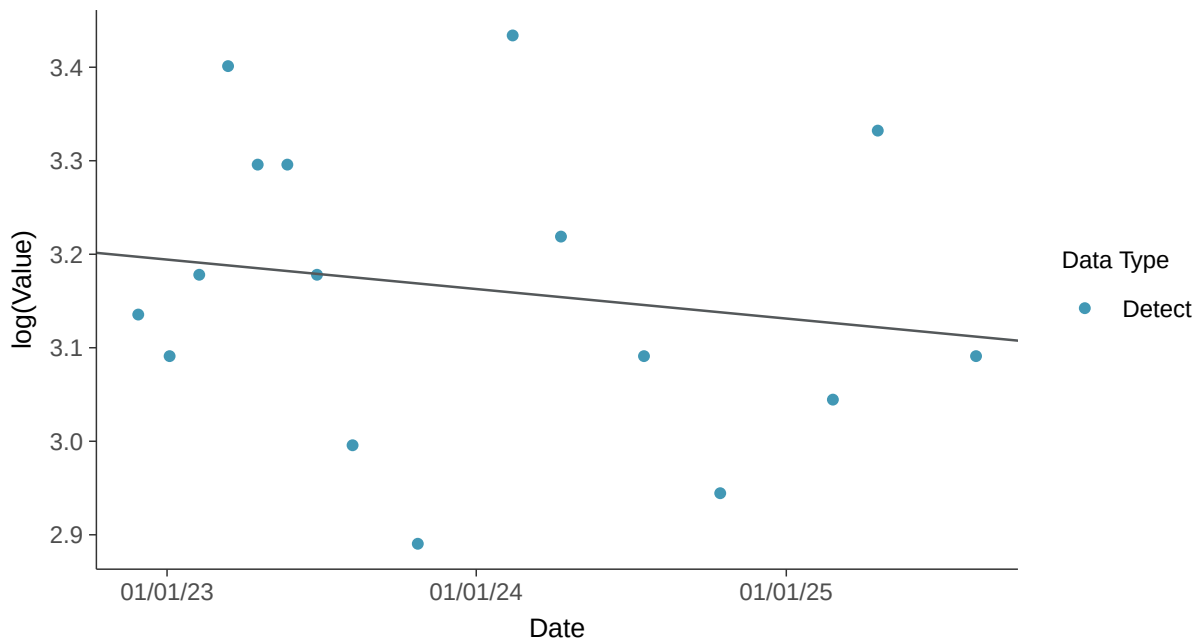
Gamma Q-Q plot

Iron, MW-02 (mg/L)



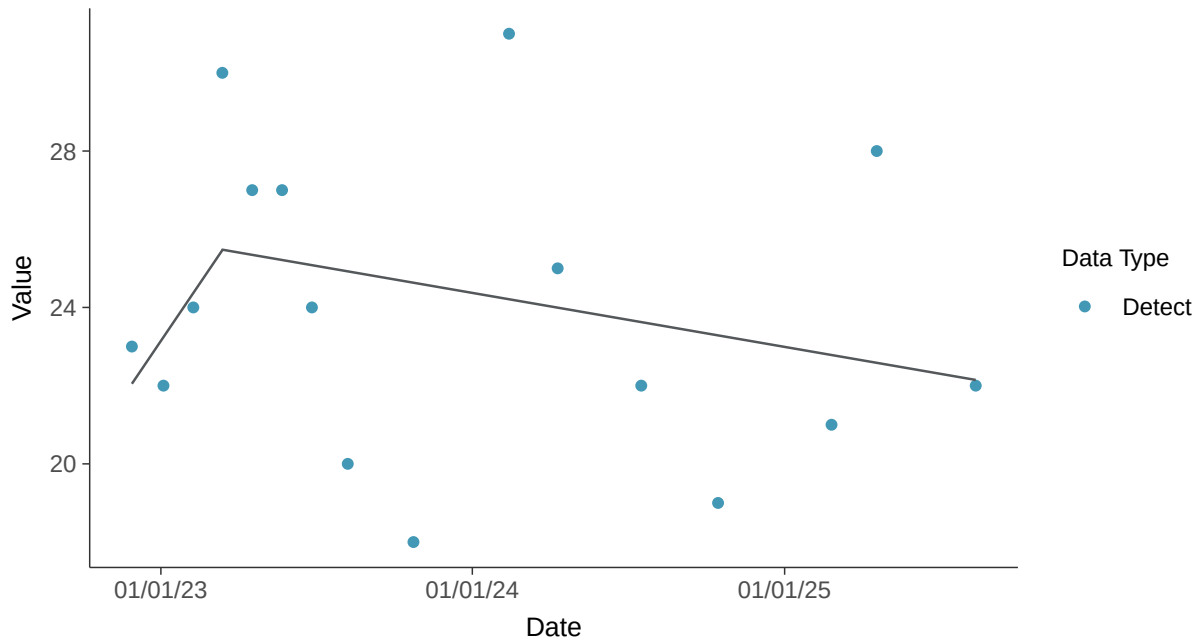
Trend Regression: Lognormal MLE

Iron, MW-02 (mg/L)



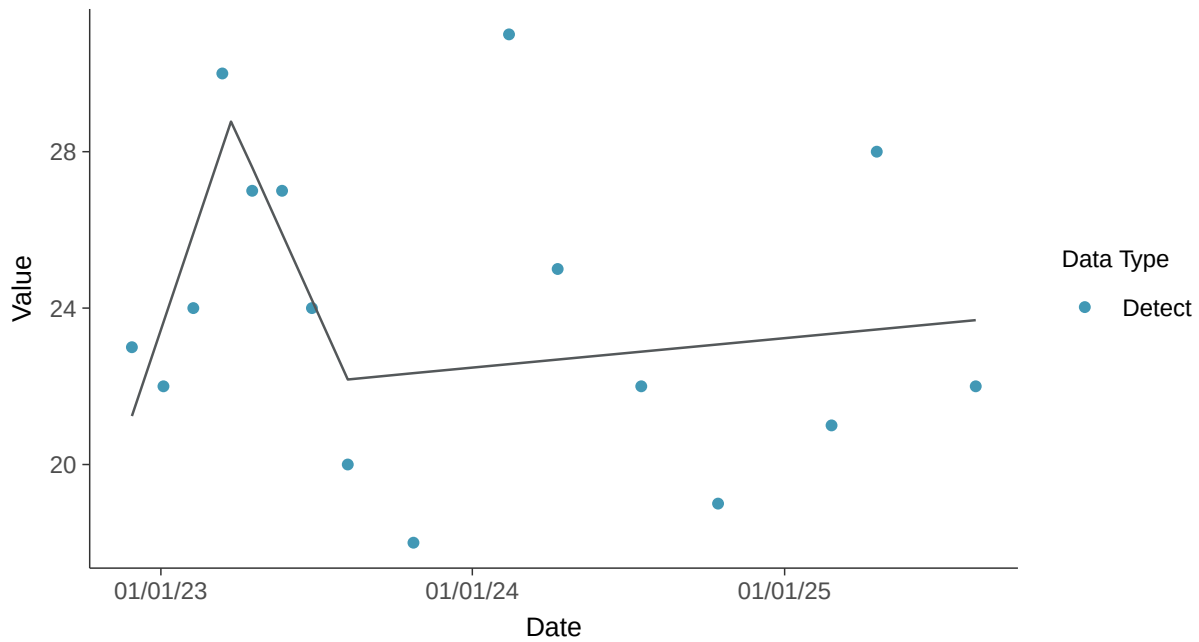
Trend Regression: Piecewise Linear-Linear

Iron, MW-02 (mg/L)



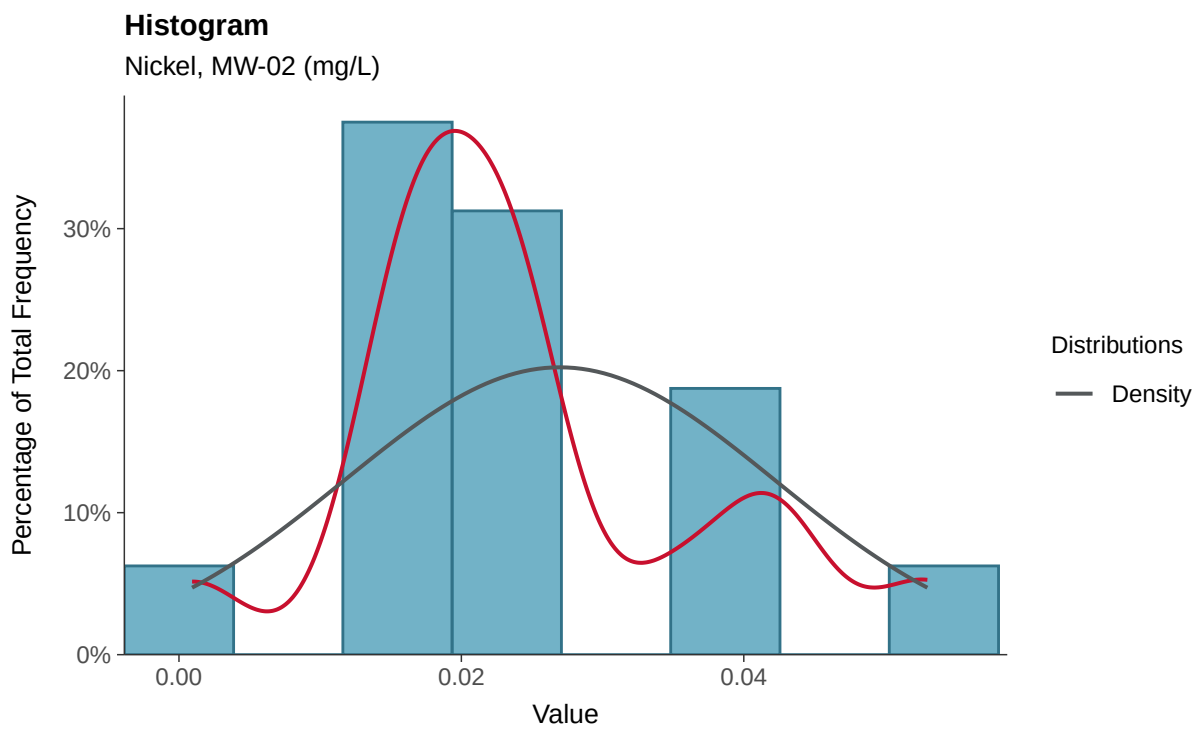
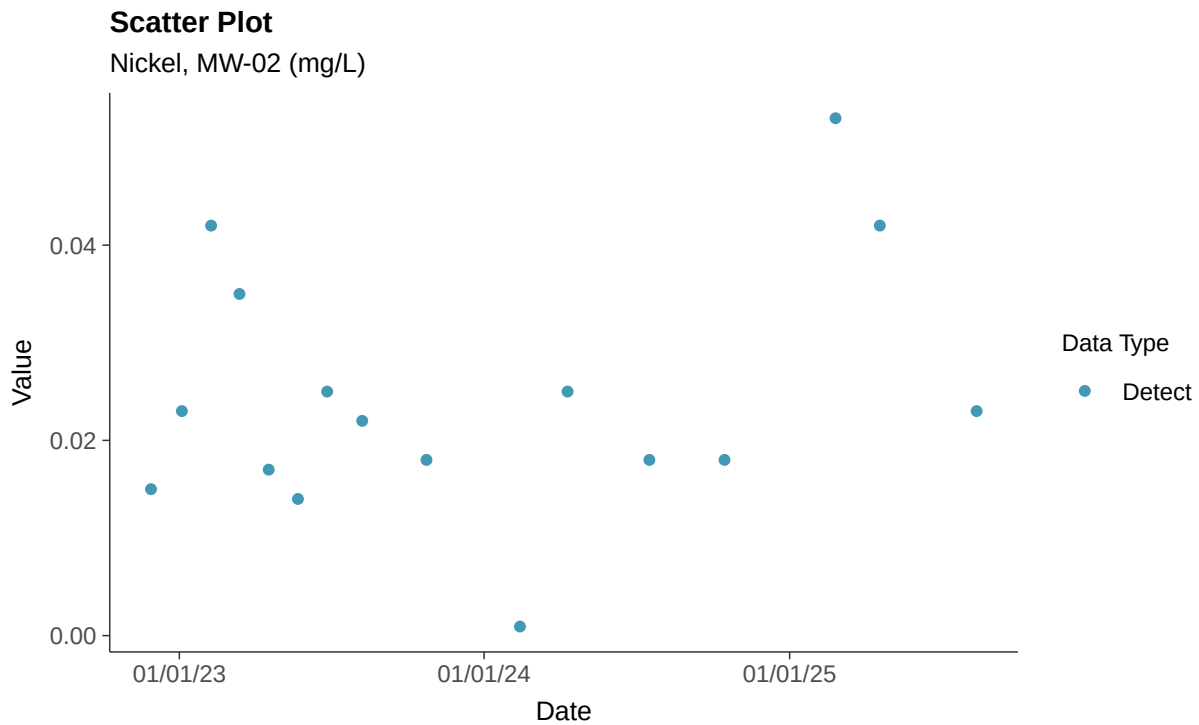
Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-02 (mg/L)



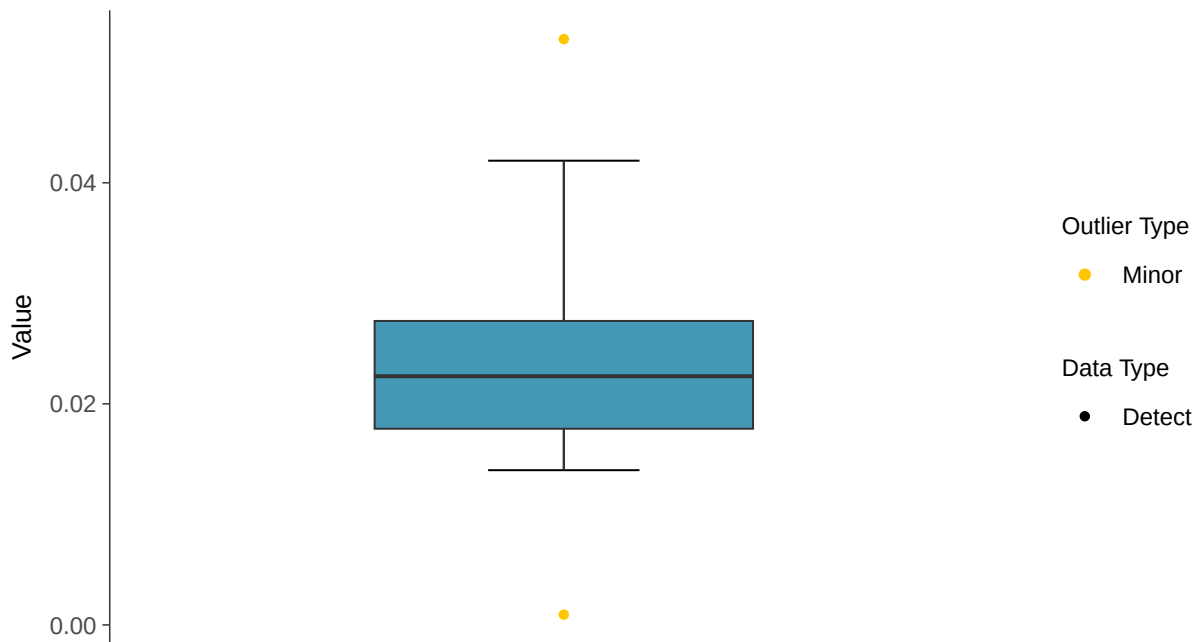
Part 115: Nickel, MW-02

ID: 12_2_5_119



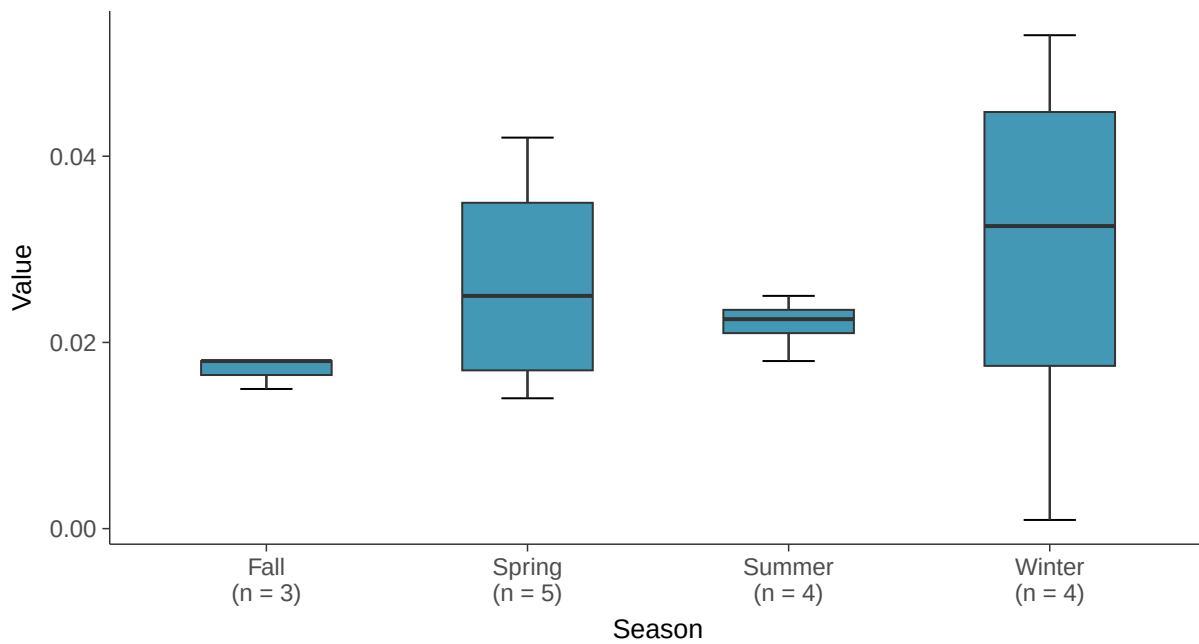
Boxplot

Nickel, MW-02 (mg/L)

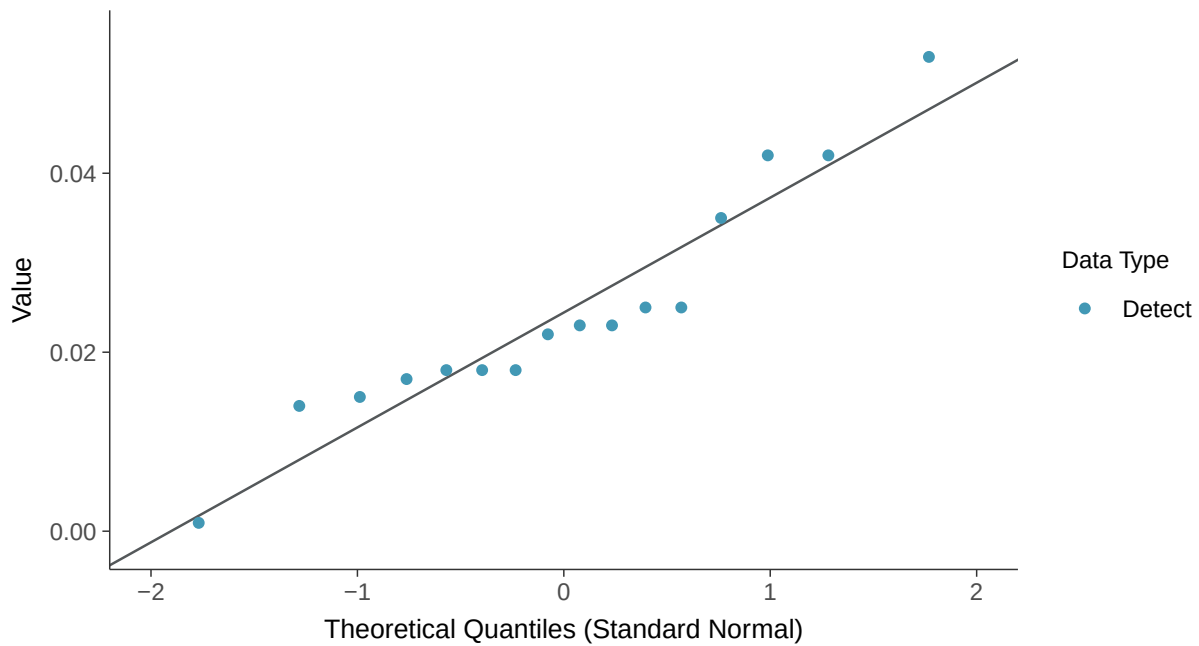


Boxplot by Season

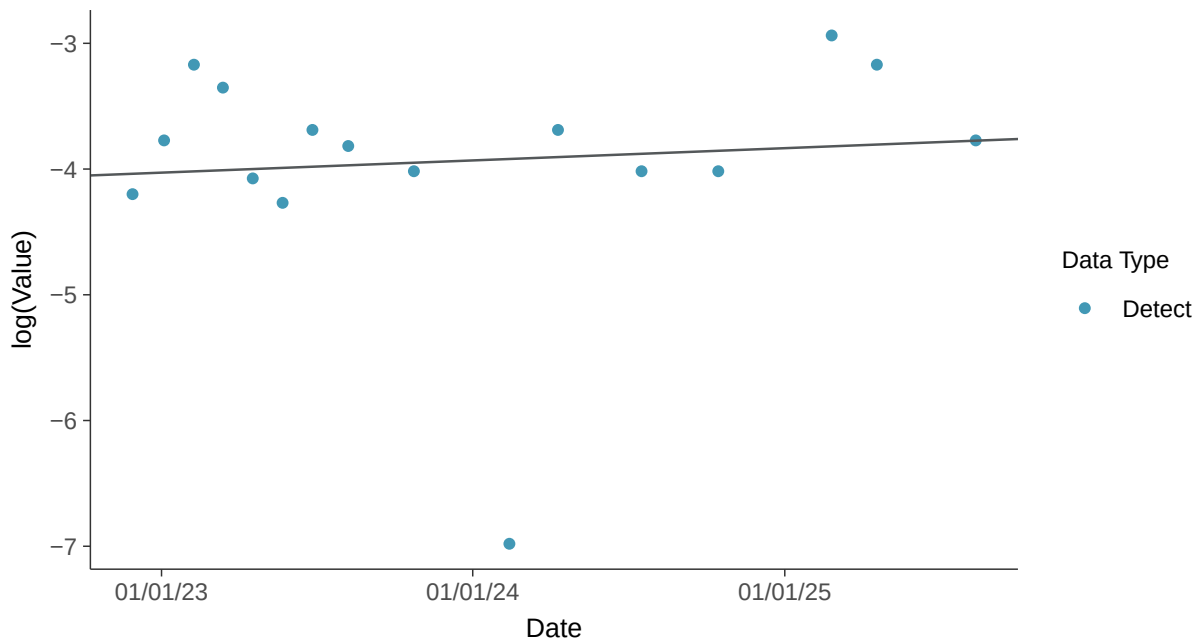
Nickel, MW-02 (mg/L)



Normal Q-Q plot
Nickel, MW-02 (mg/L)

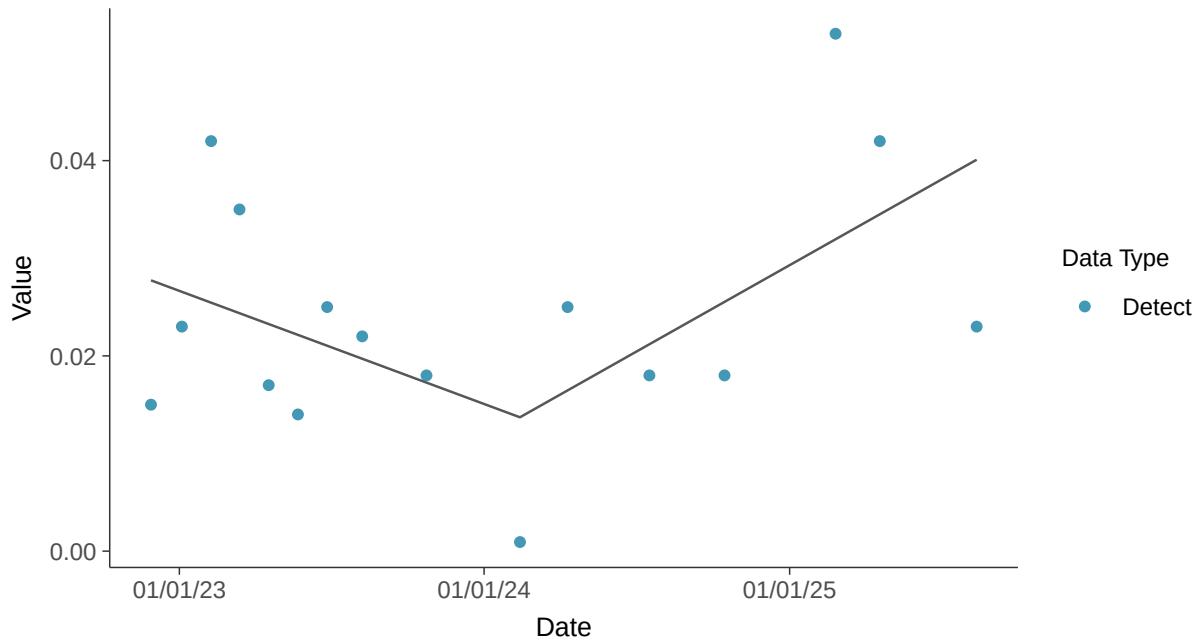


Trend Regression: Lognormal MLE
Nickel, MW-02 (mg/L)



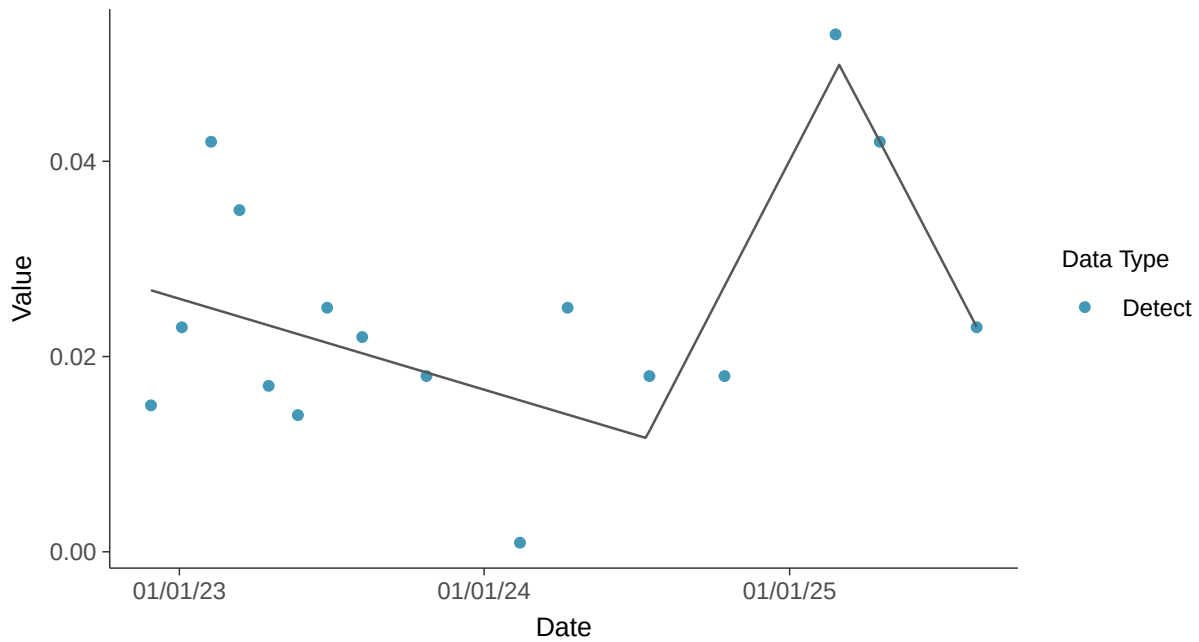
Trend Regression: Piecewise Linear-Linear

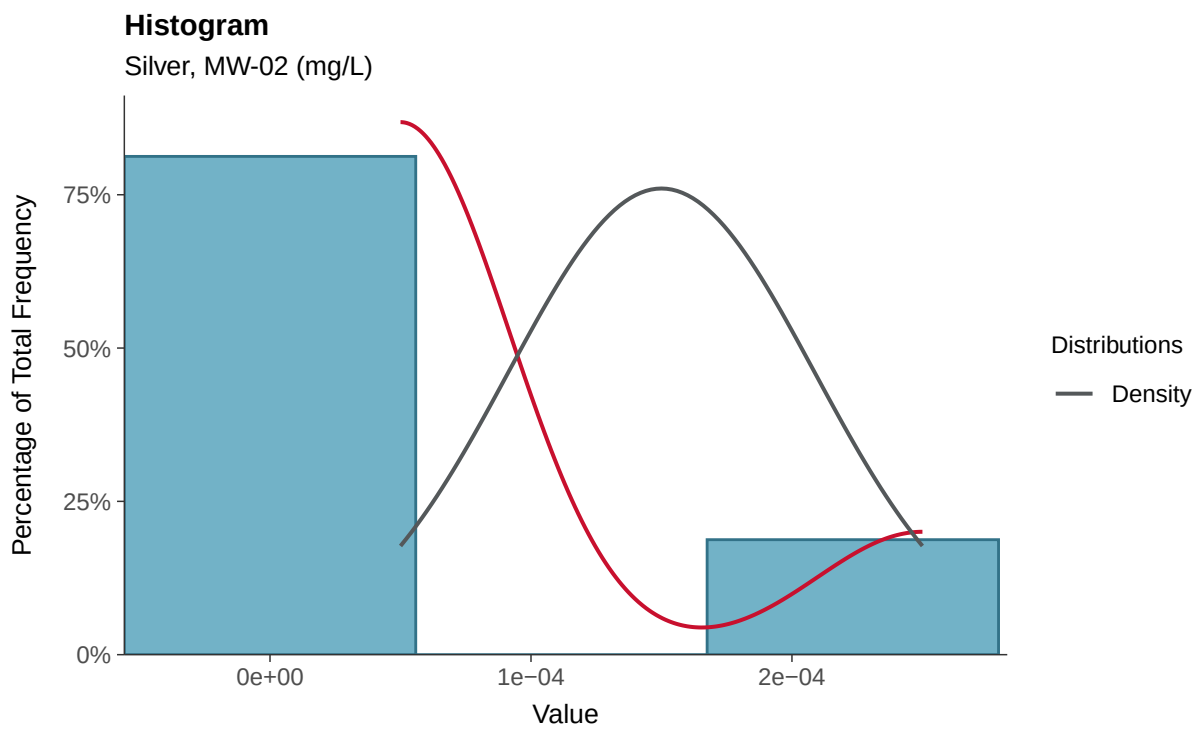
Nickel, MW-02 (mg/L)

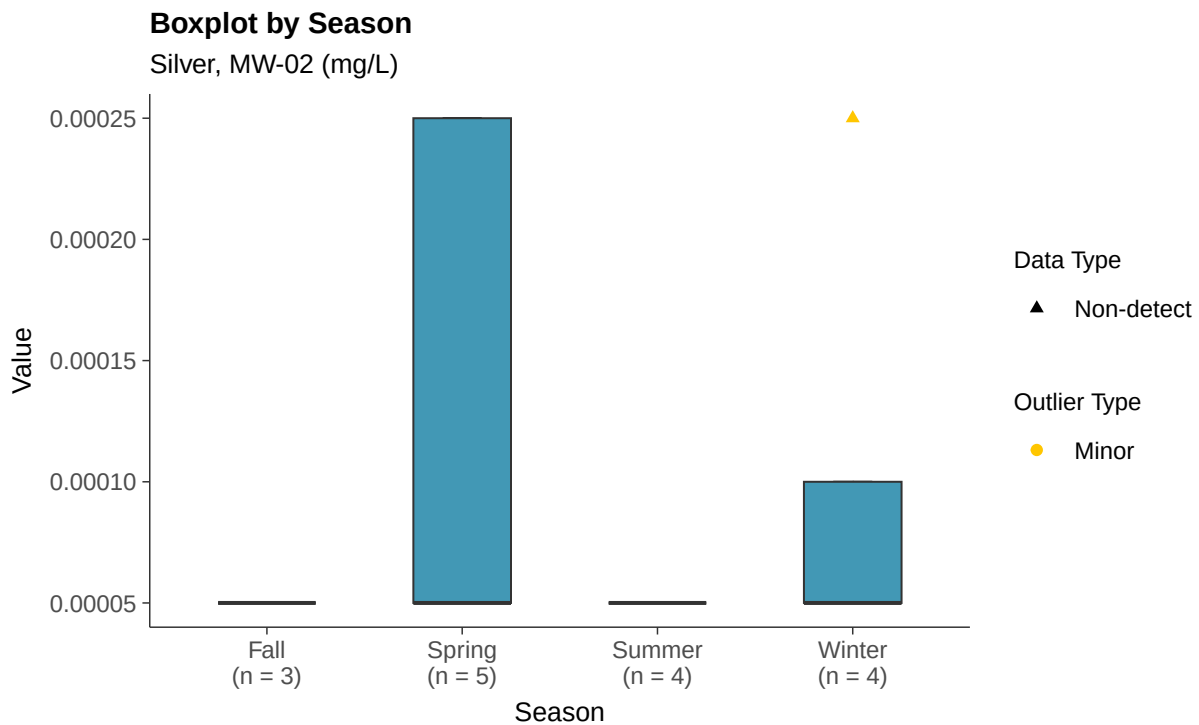
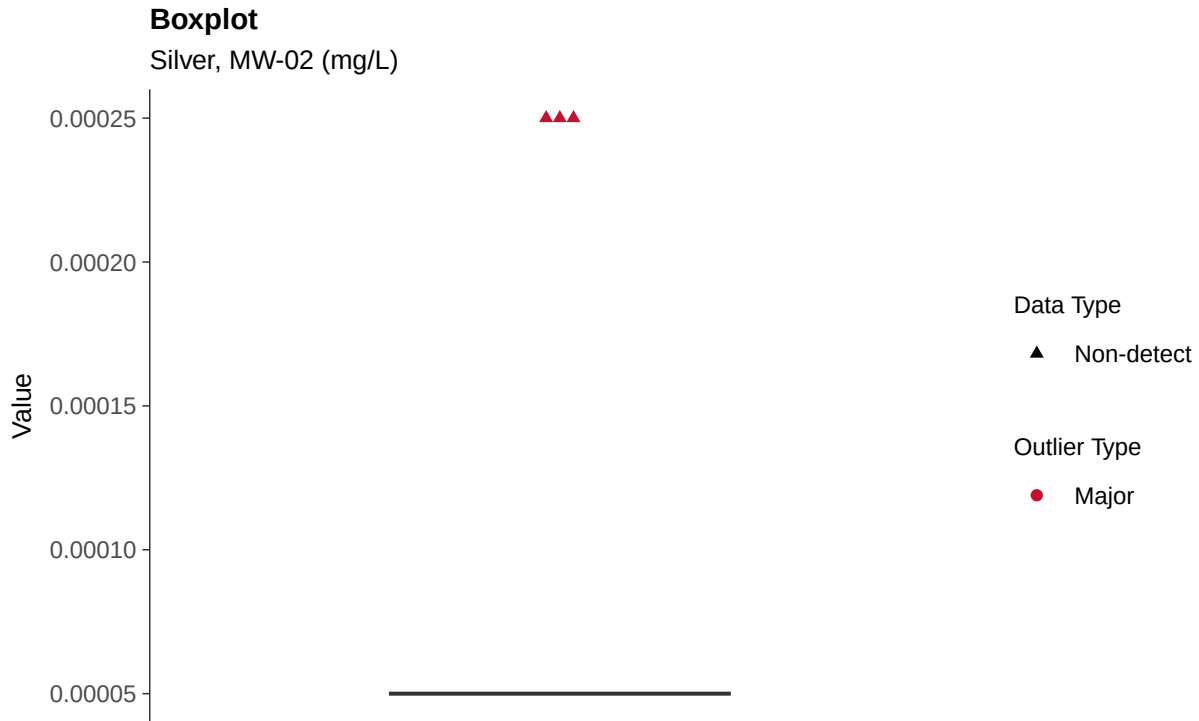


Trend Regression: Piecewise Linear-Linear-Linear

Nickel, MW-02 (mg/L)





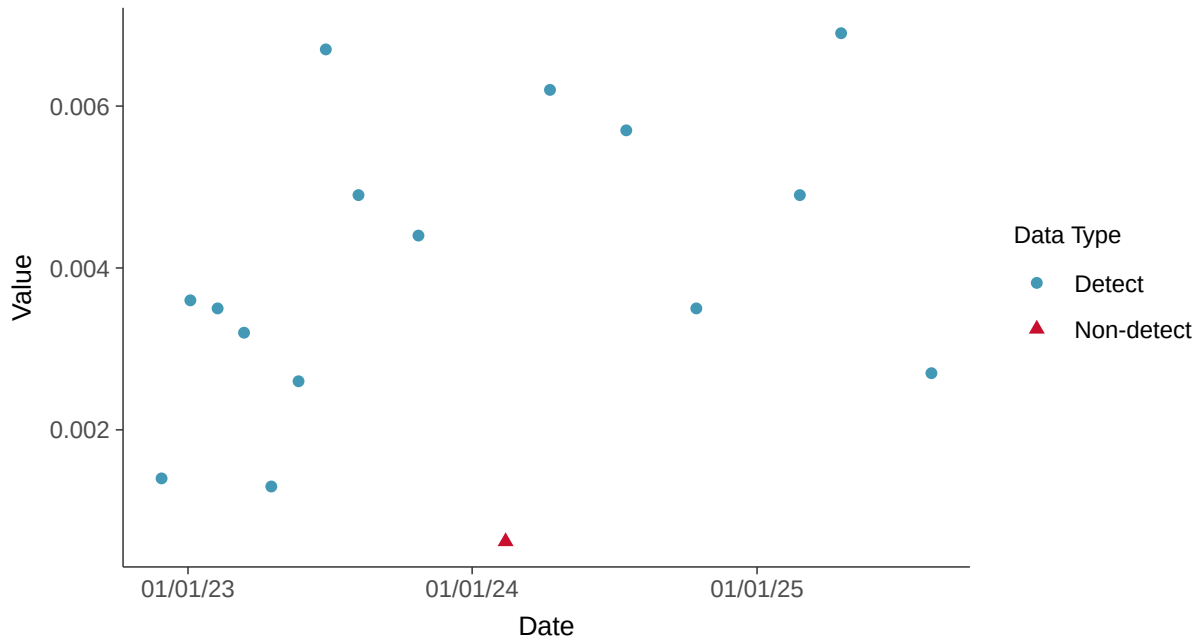


Part 115: Vanadium, MW-02

ID: 12_2_5_128

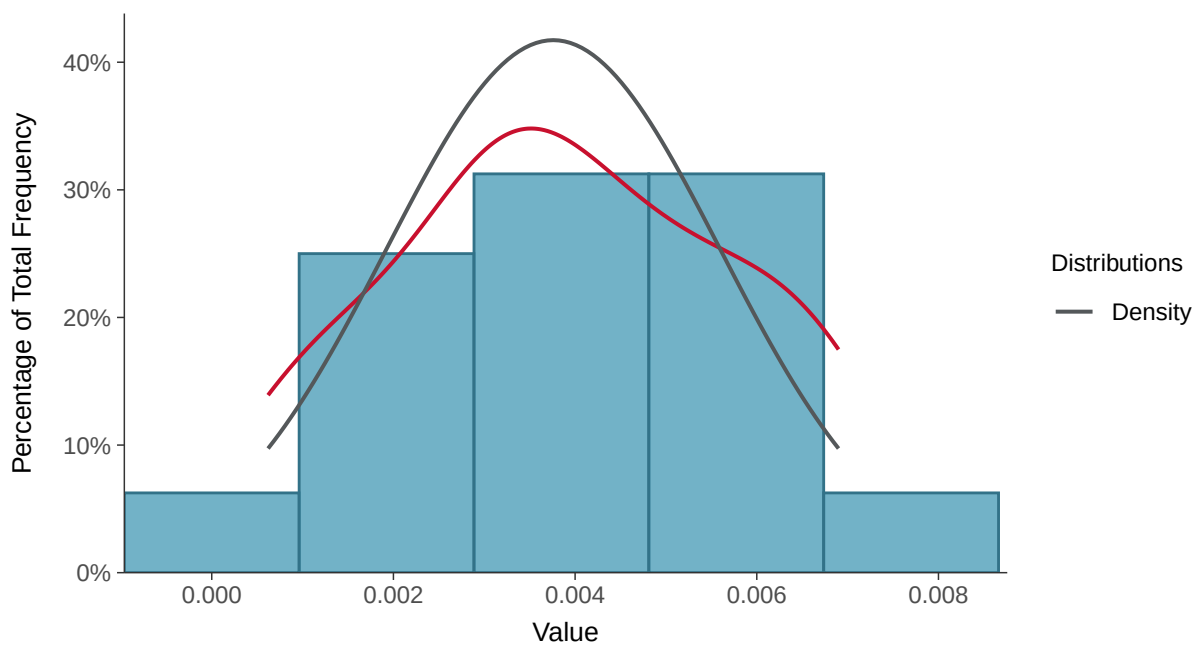
Scatter Plot

Vanadium, MW-02 (mg/L)



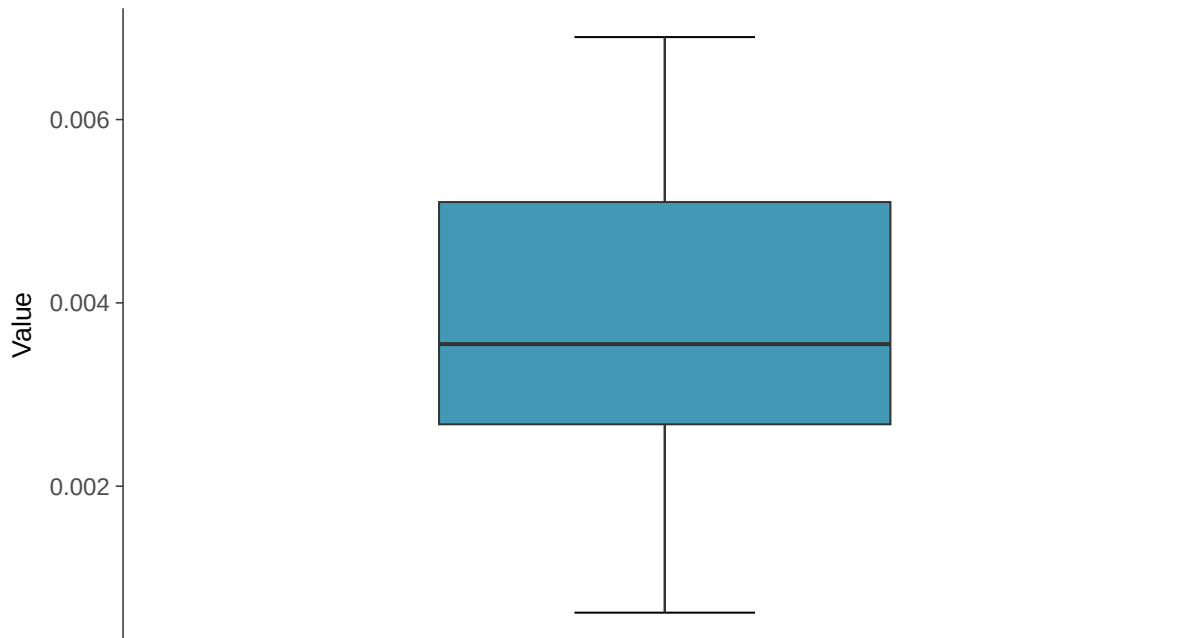
Histogram

Vanadium, MW-02 (mg/L)



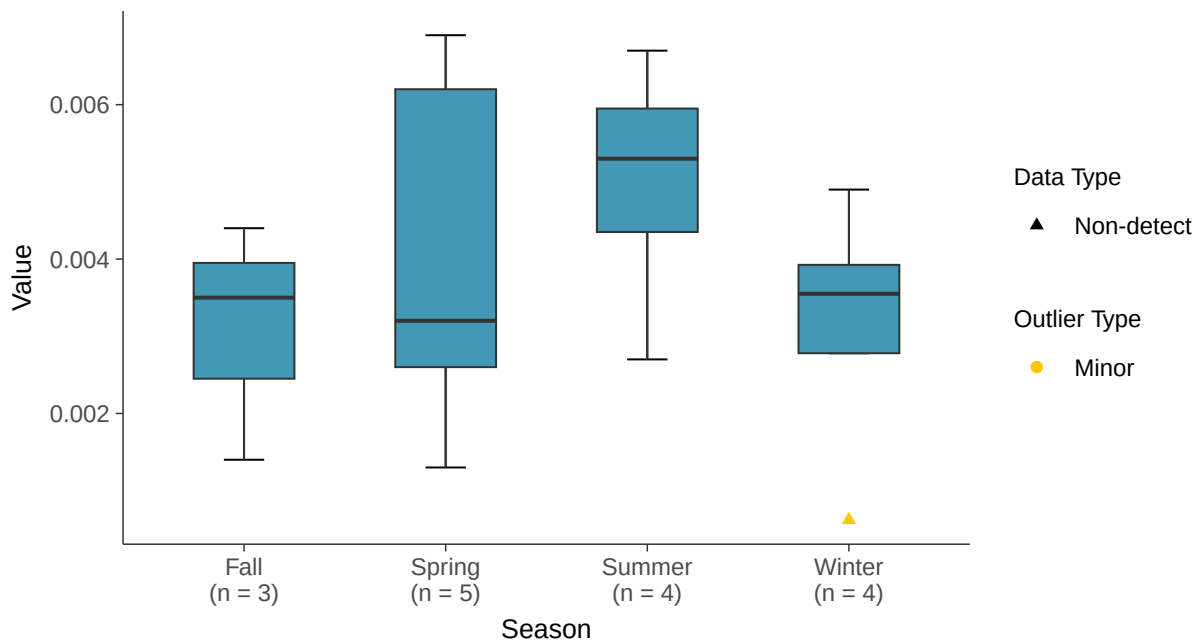
Boxplot

Vanadium, MW-02 (mg/L)



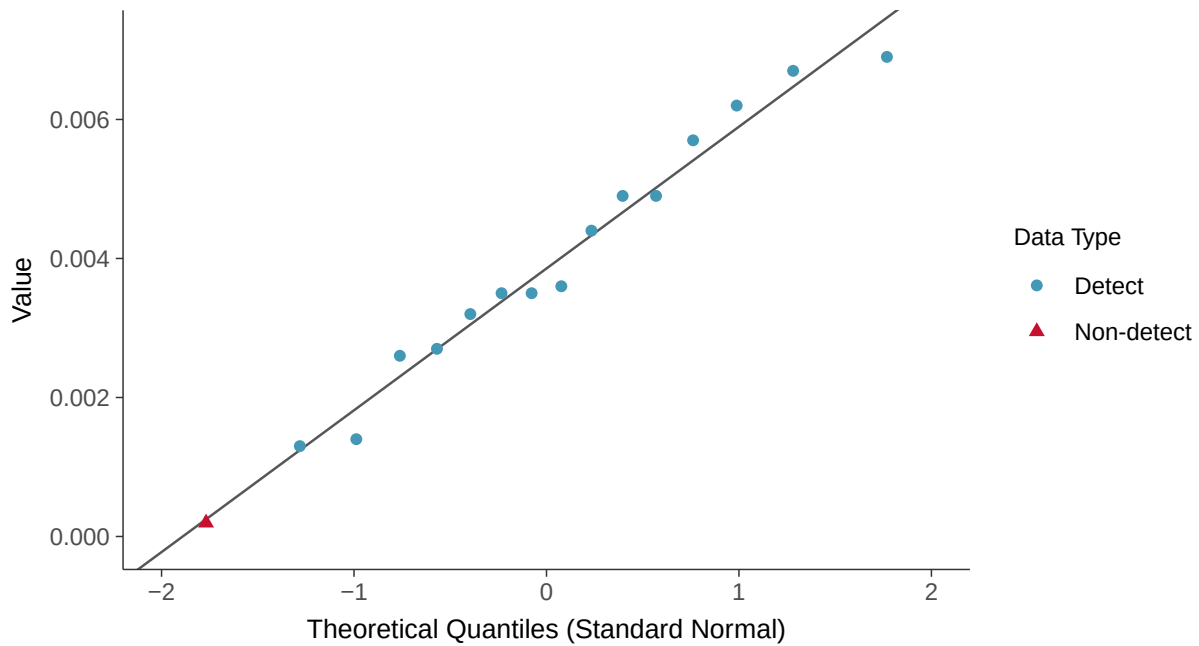
Boxplot by Season

Vanadium, MW-02 (mg/L)



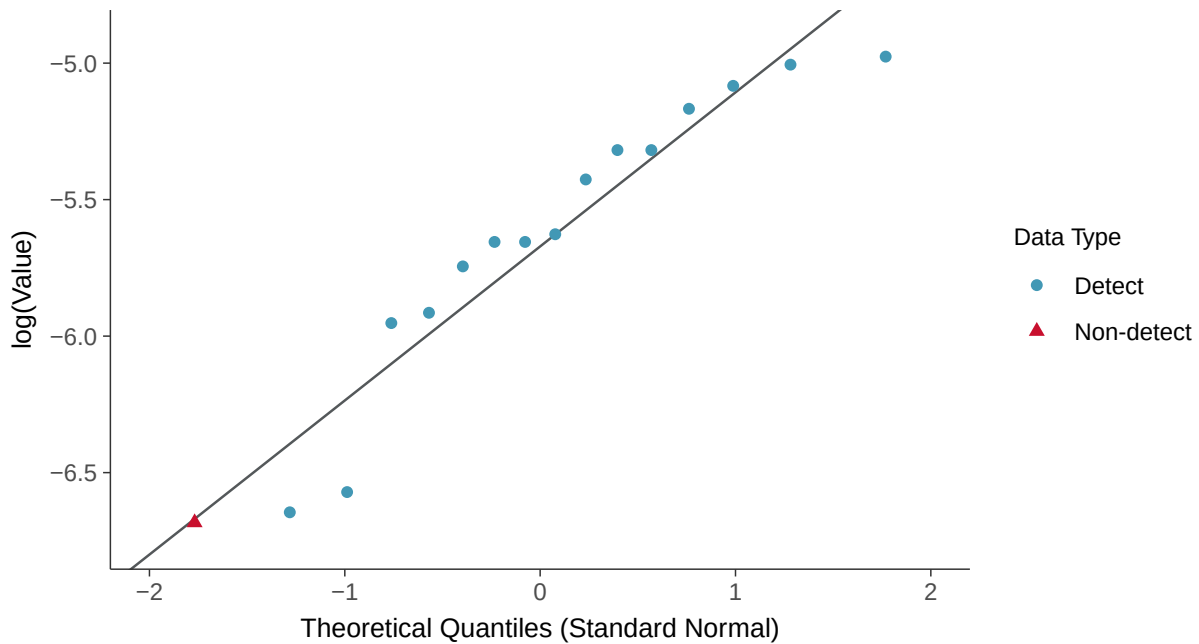
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



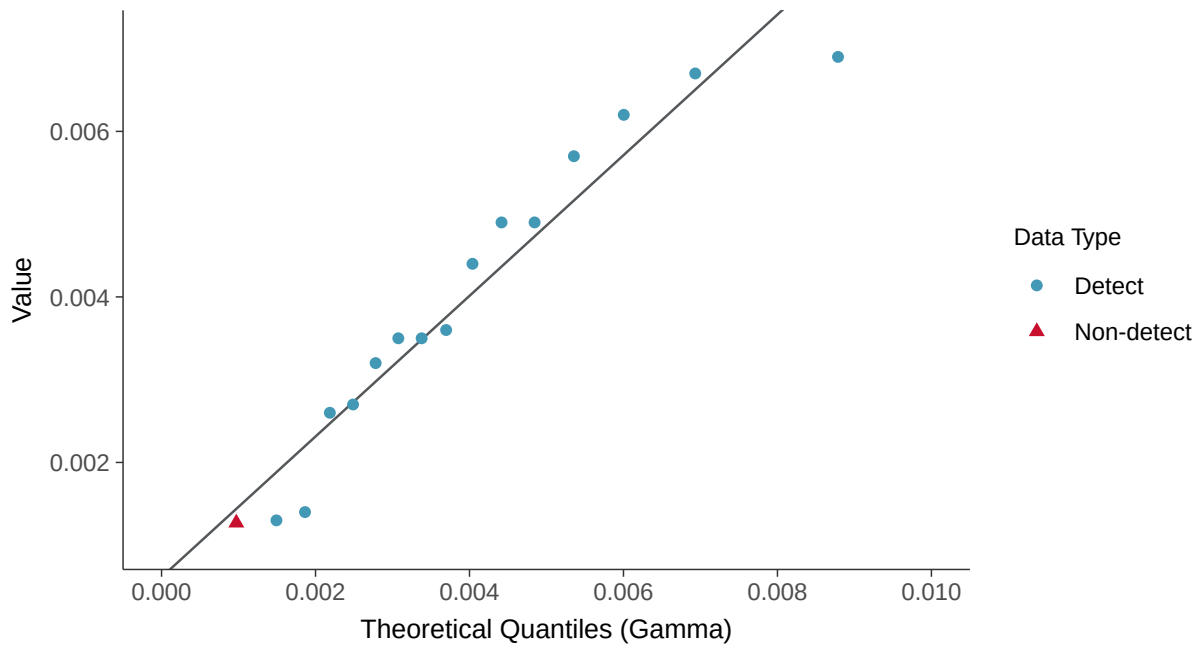
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



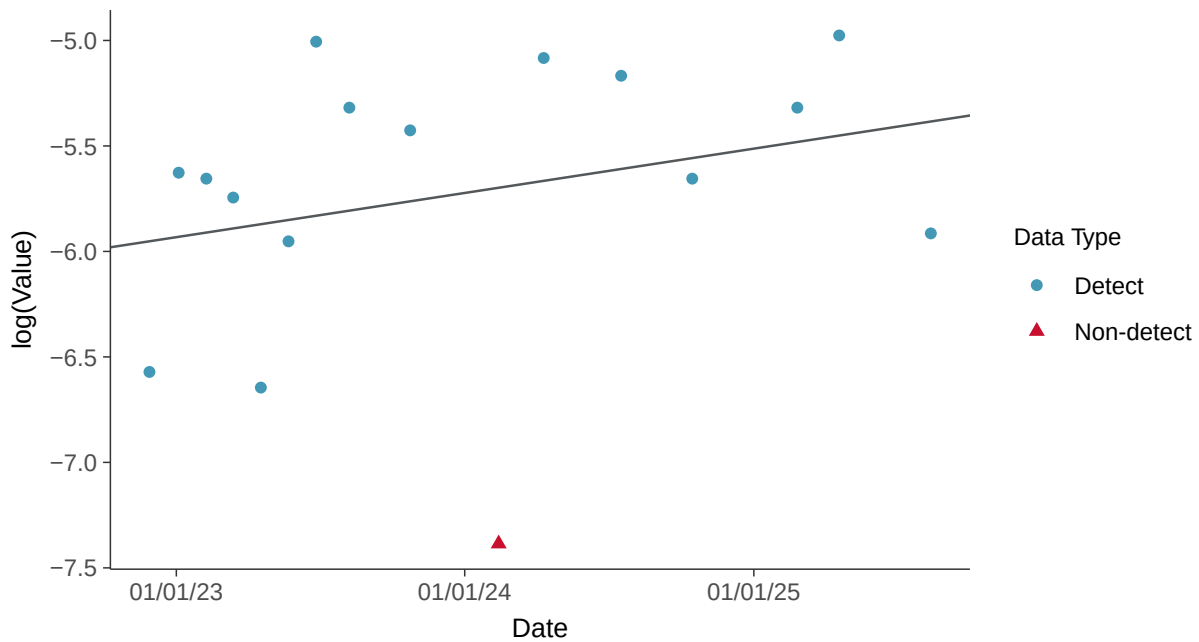
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



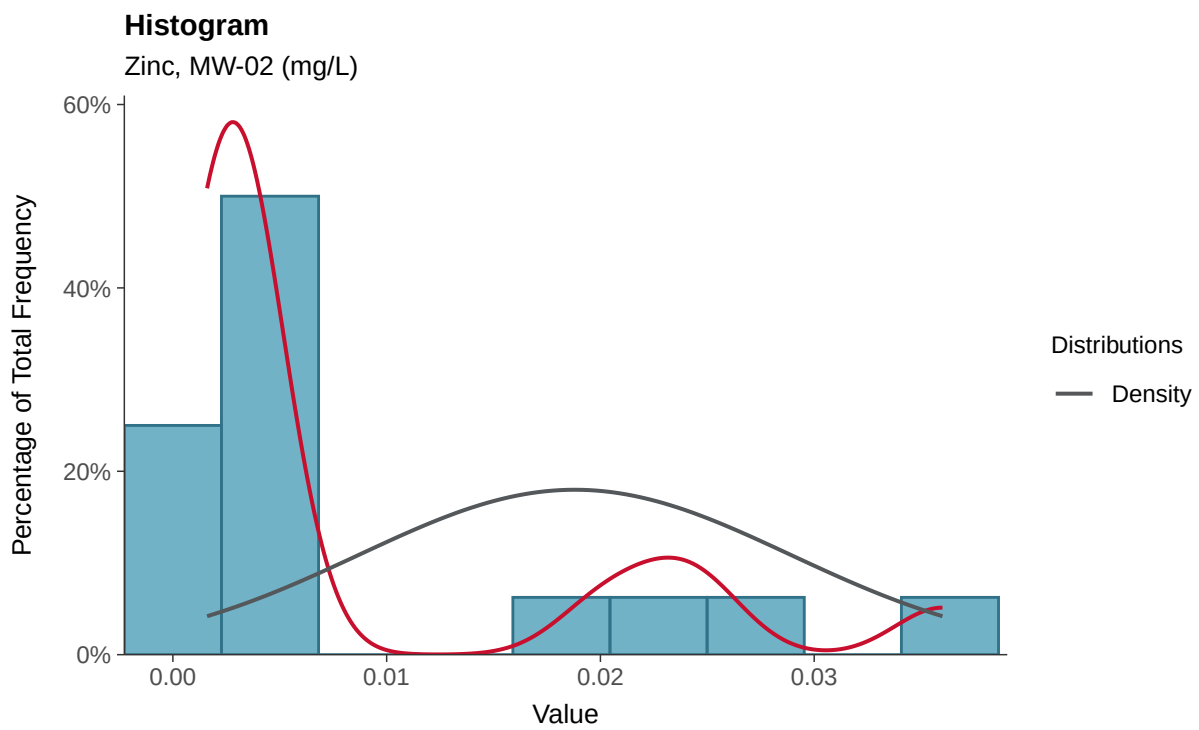
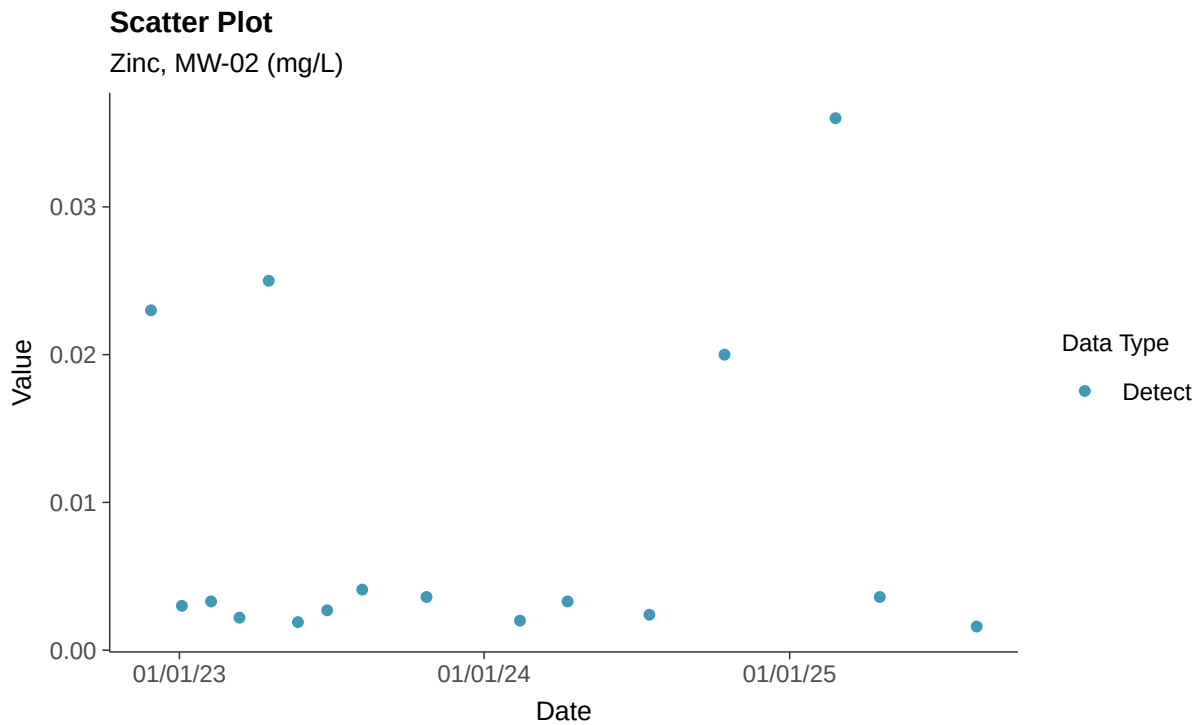
Trend Regression: Lognormal MLE

Vanadium, MW-02 (mg/L)



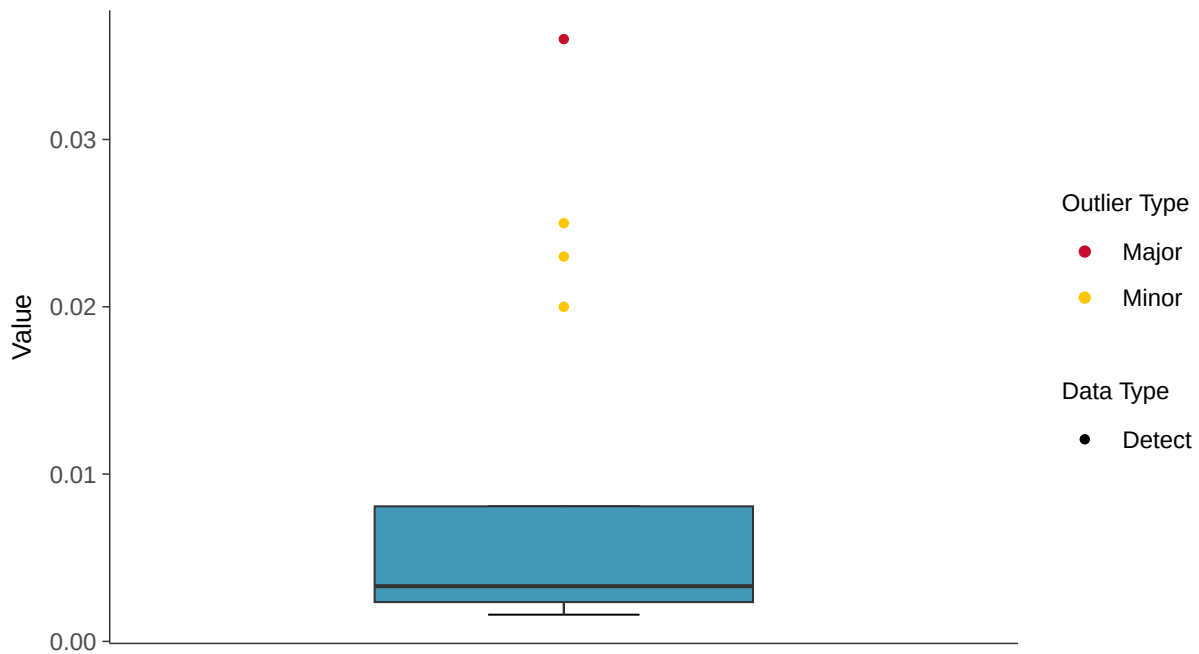
Part 115: Zinc, MW-02

ID: 12_2_5_129



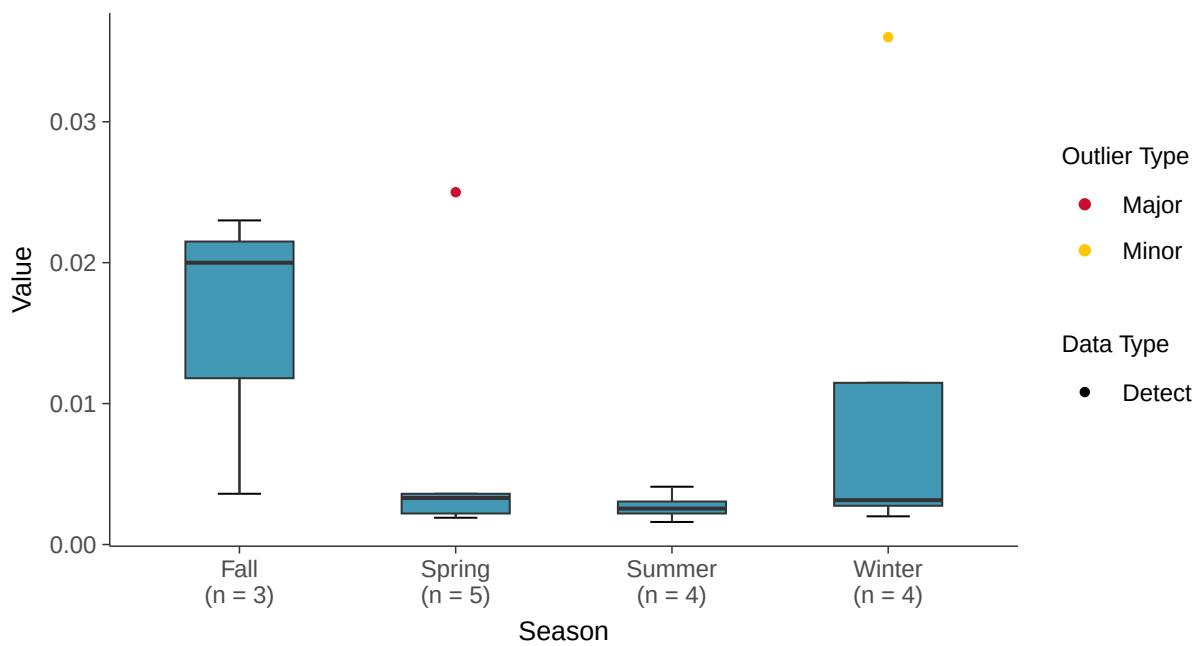
Boxplot

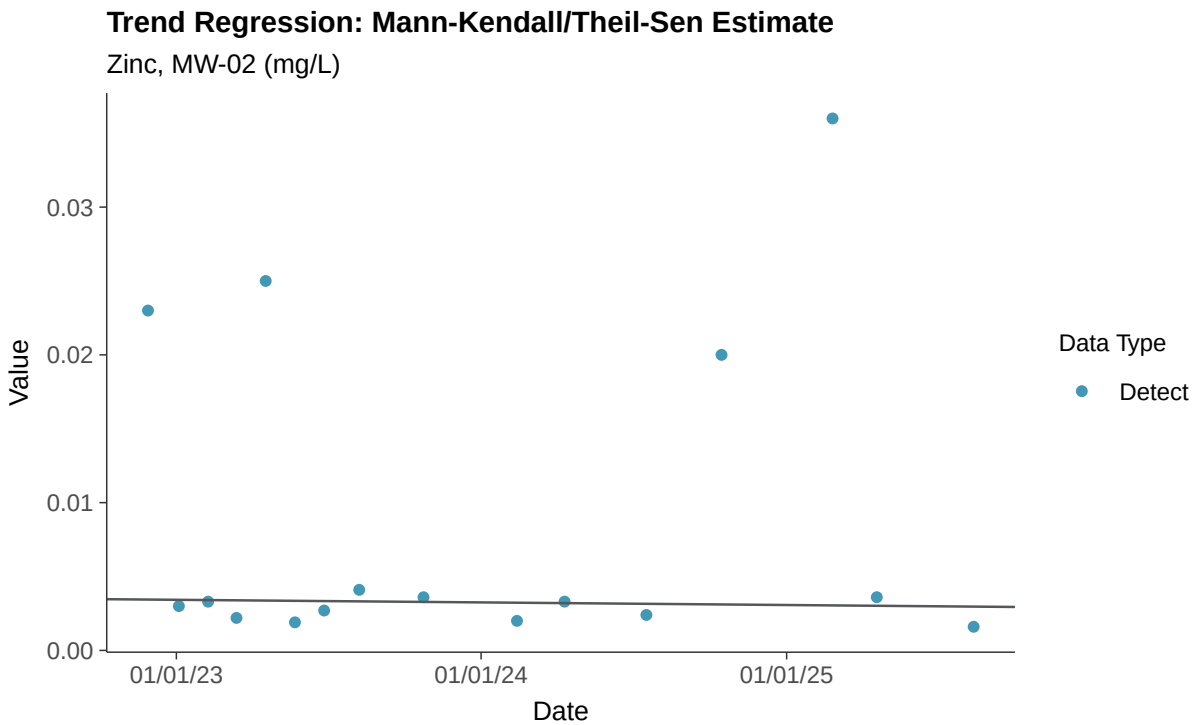
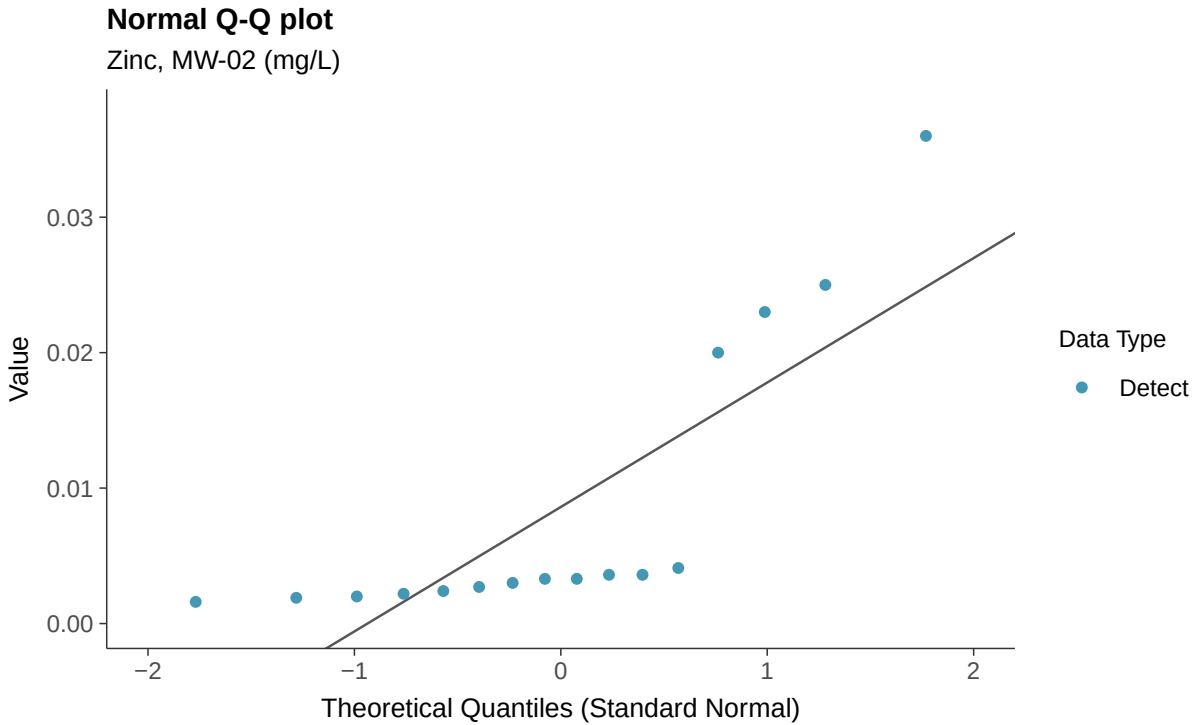
Zinc, MW-02 (mg/L)



Boxplot by Season

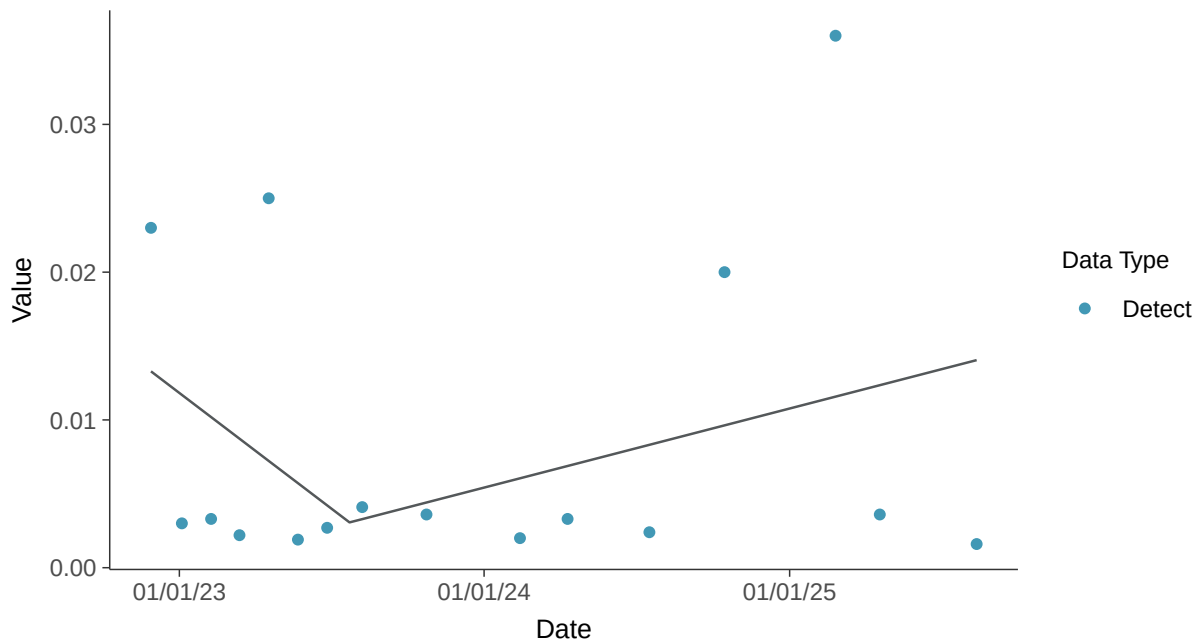
Zinc, MW-02 (mg/L)





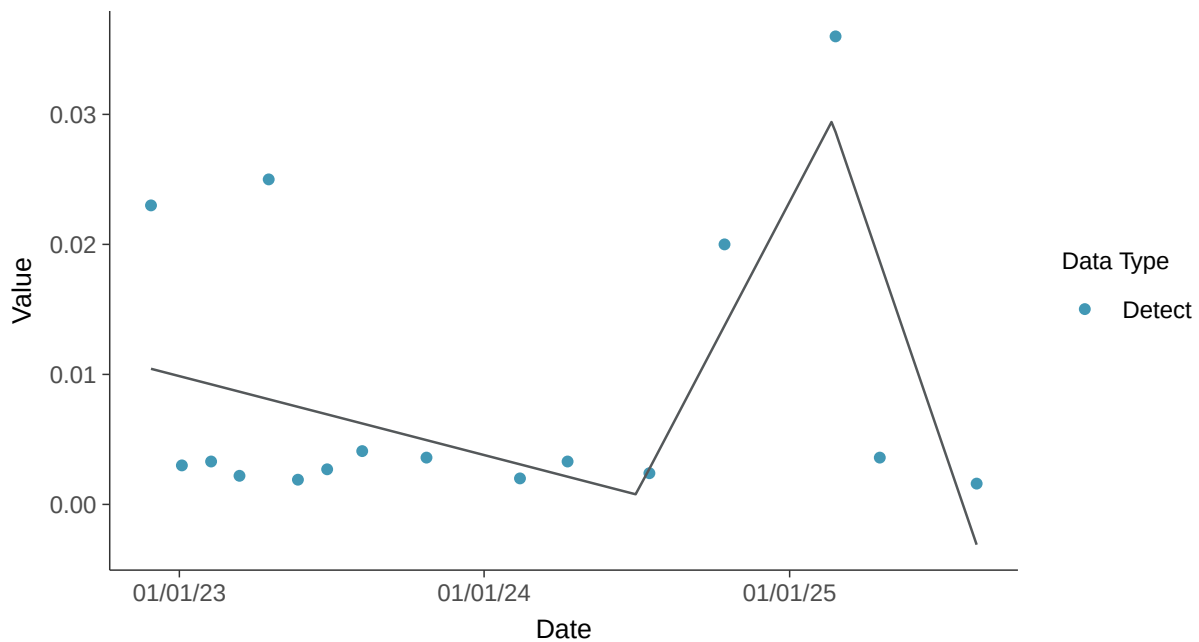
Trend Regression: Piecewise Linear-Linear

Zinc, MW-02 (mg/L)



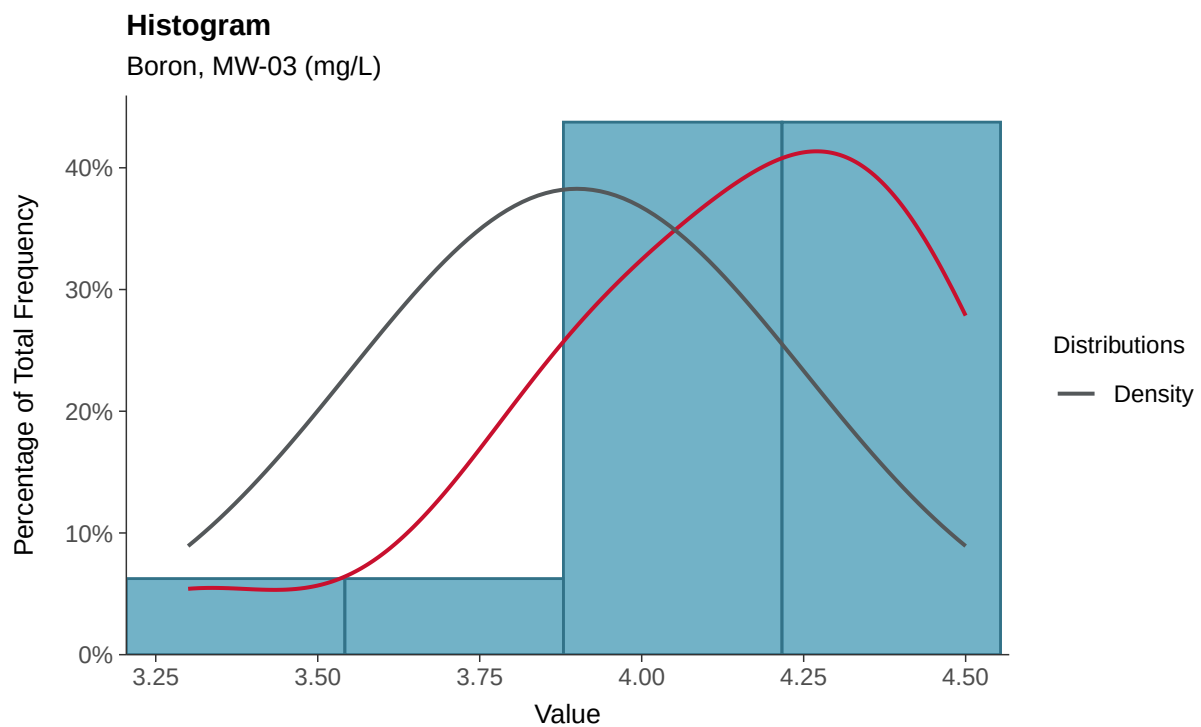
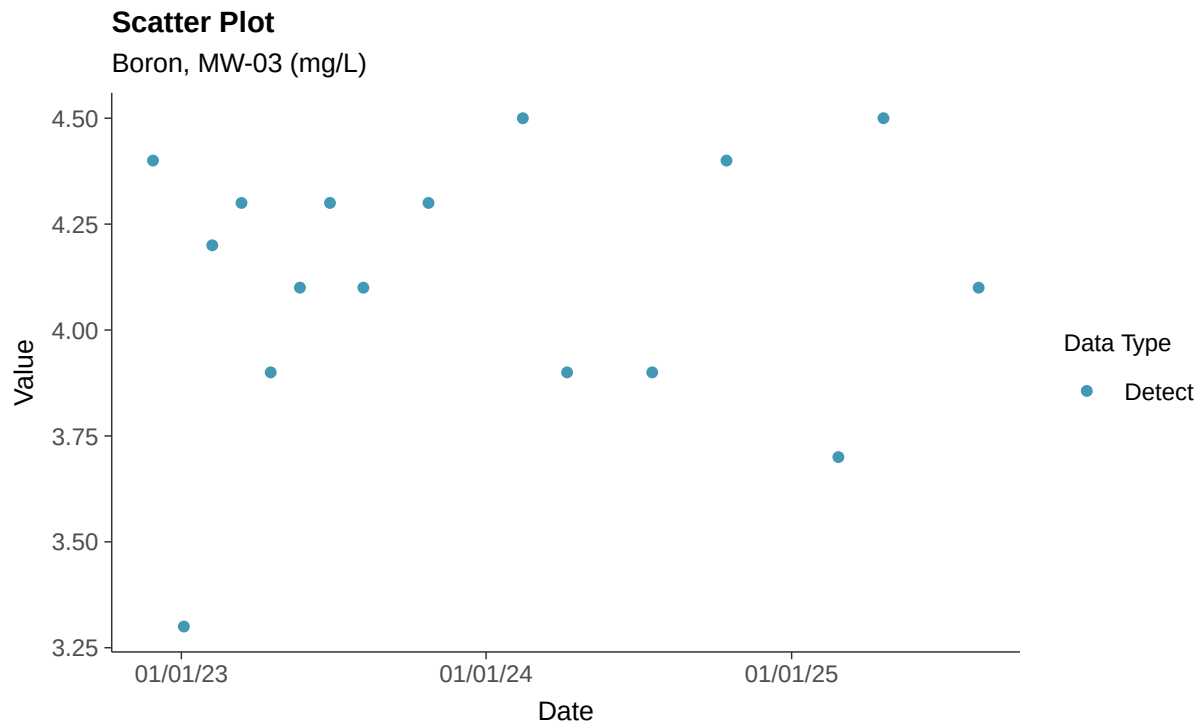
Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-02 (mg/L)



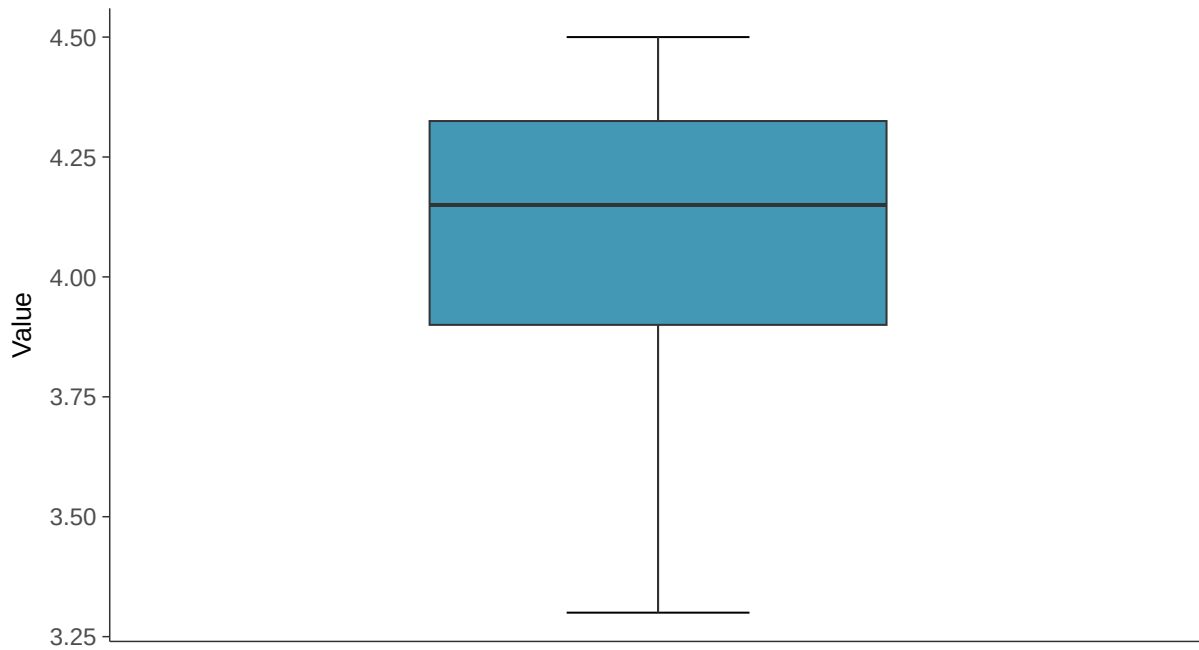
Appendix III: Boron, MW-03

ID: 13_2_3_105



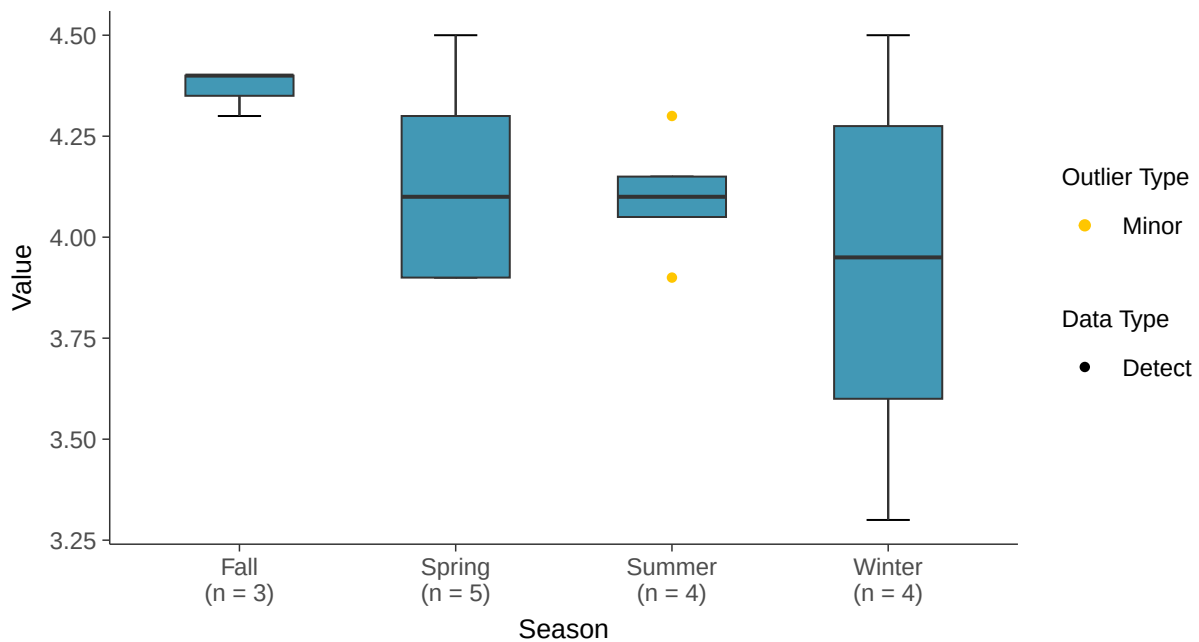
Boxplot

Boron, MW-03 (mg/L)

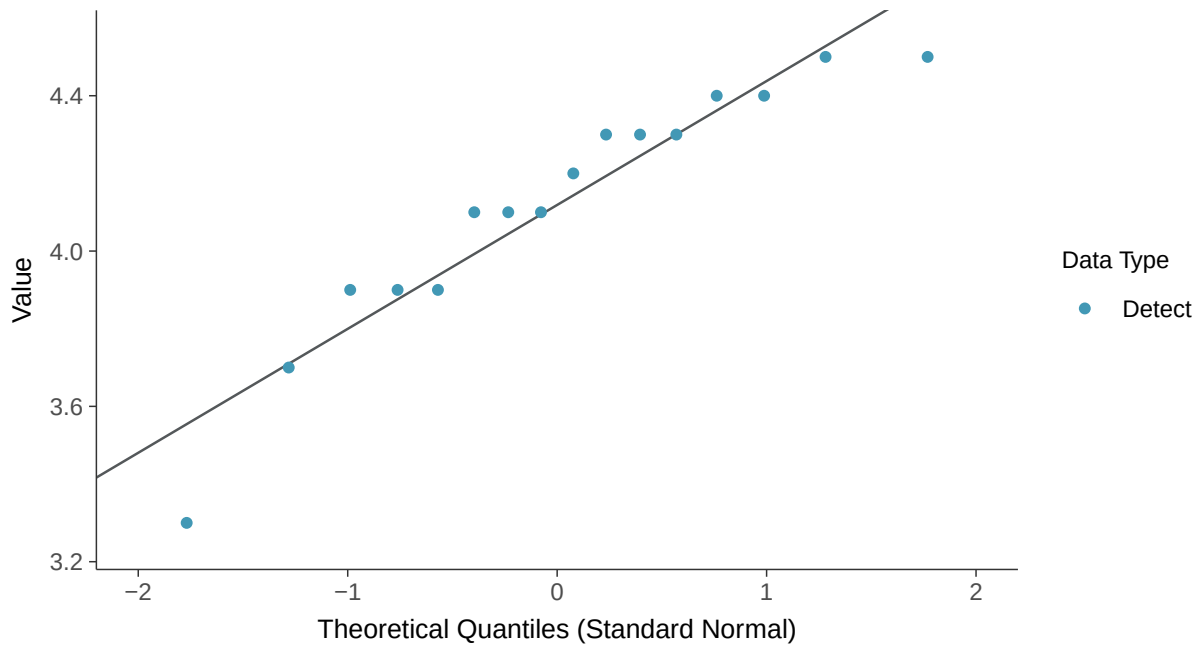


Boxplot by Season

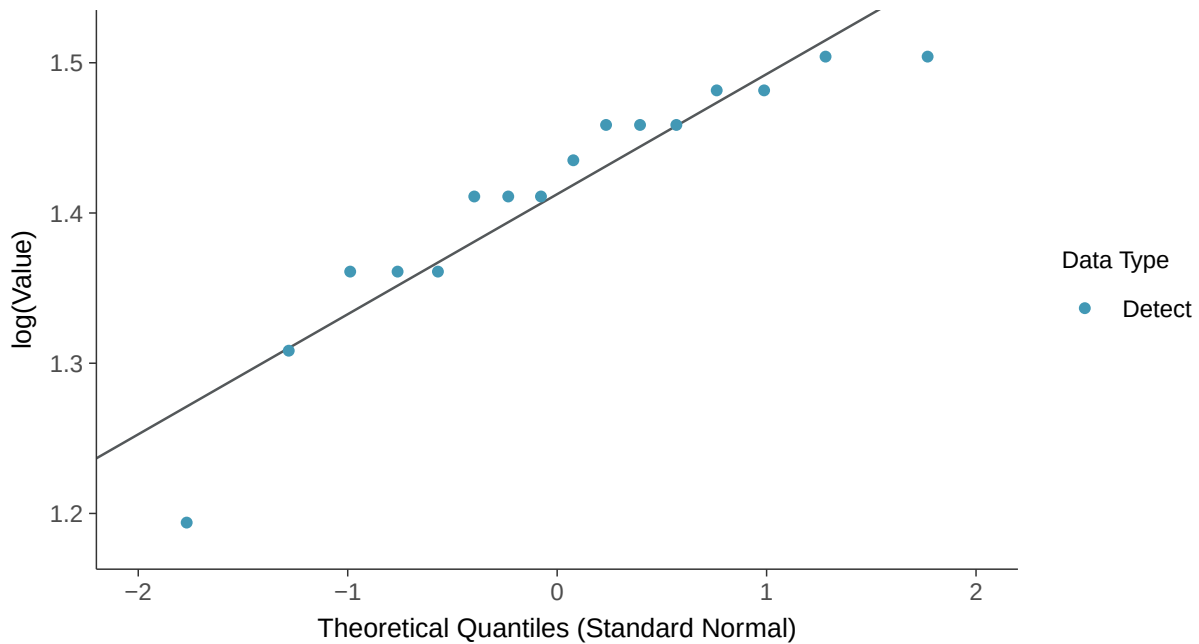
Boron, MW-03 (mg/L)



Normal Q-Q plot
Boron, MW-03 (mg/L)

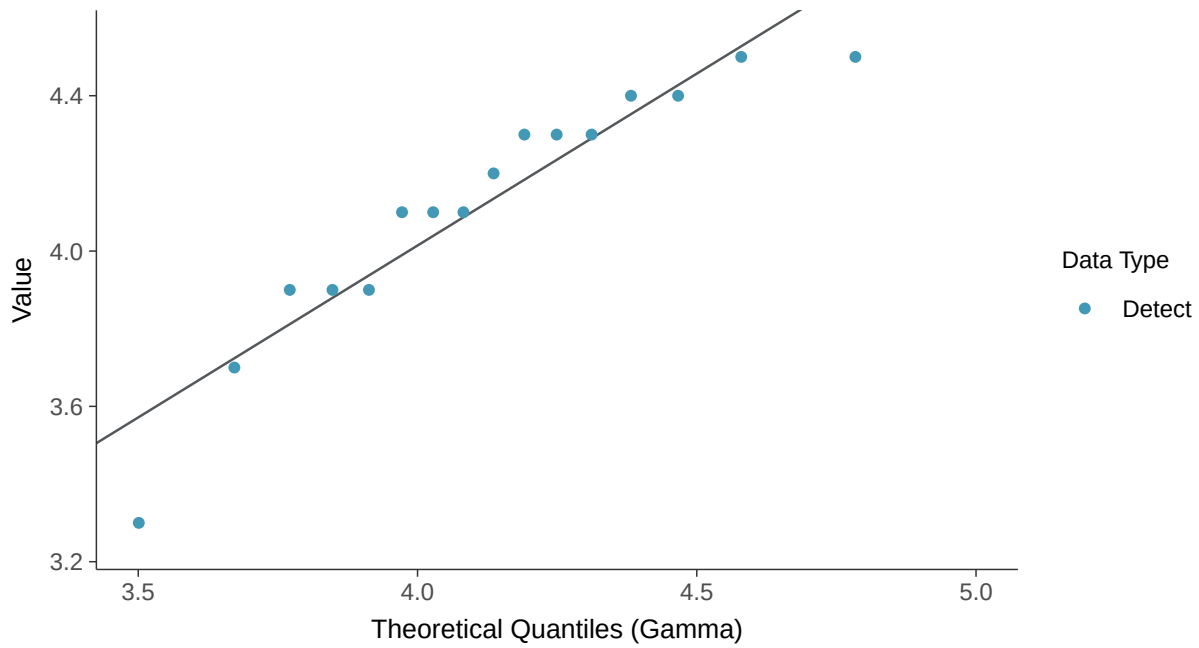


Lognormal Q-Q plot
Boron, MW-03 (mg/L)



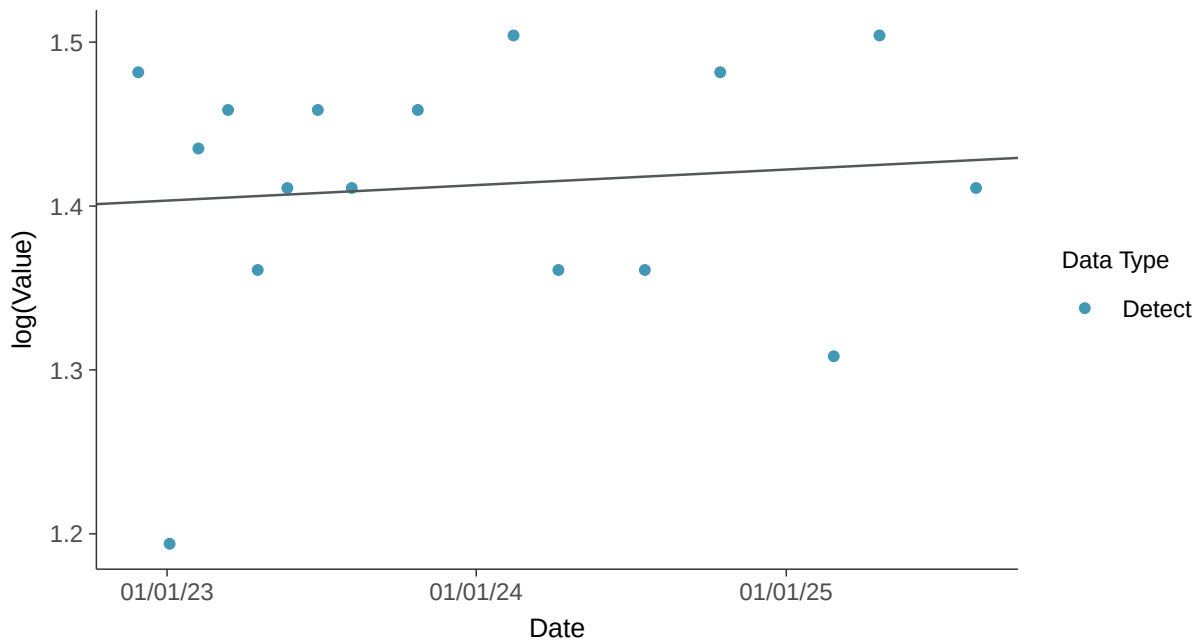
Gamma Q-Q plot

Boron, MW-03 (mg/L)



Trend Regression: Lognormal MLE

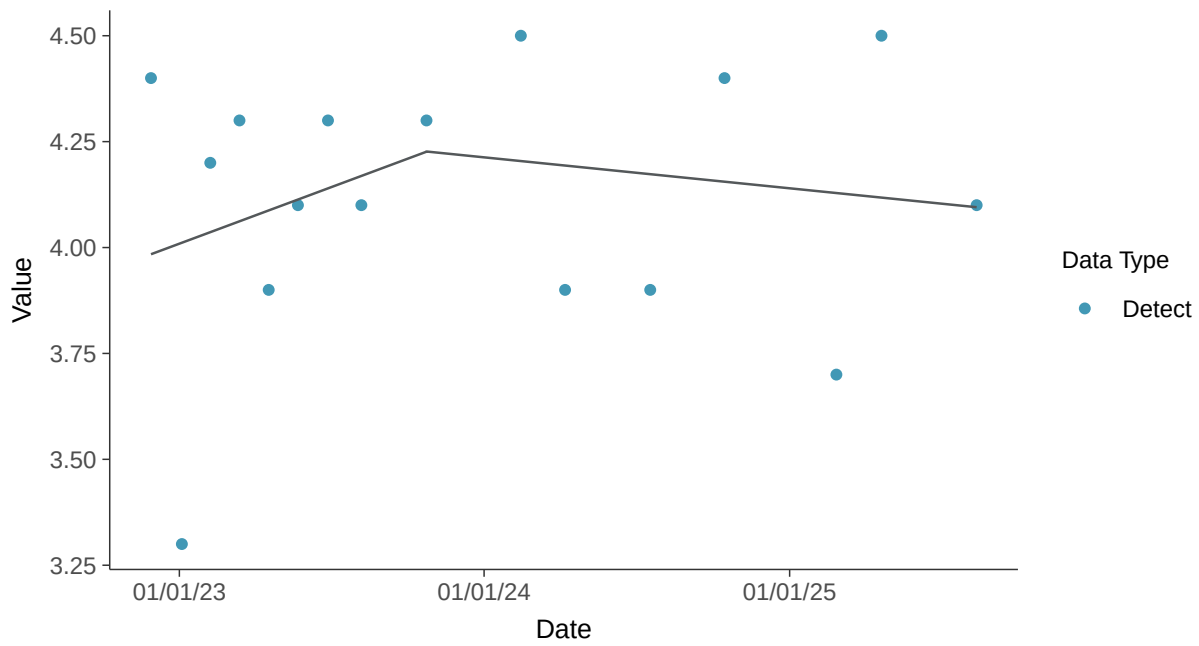
Boron, MW-03 (mg/L)





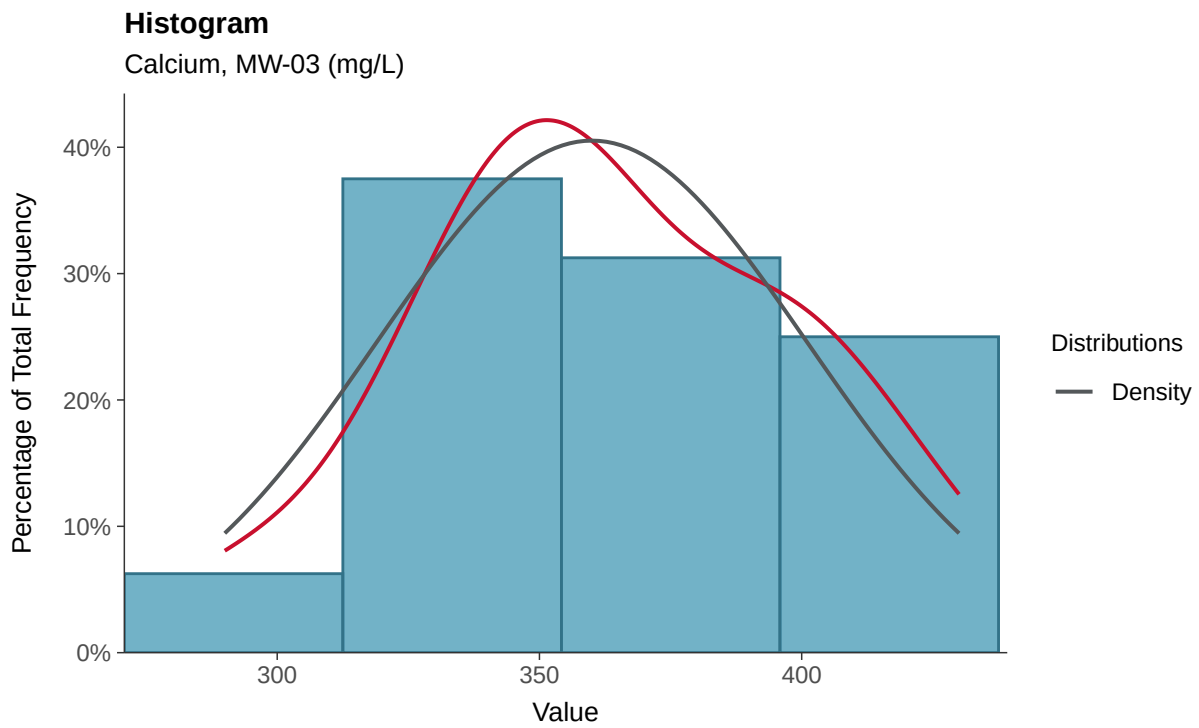
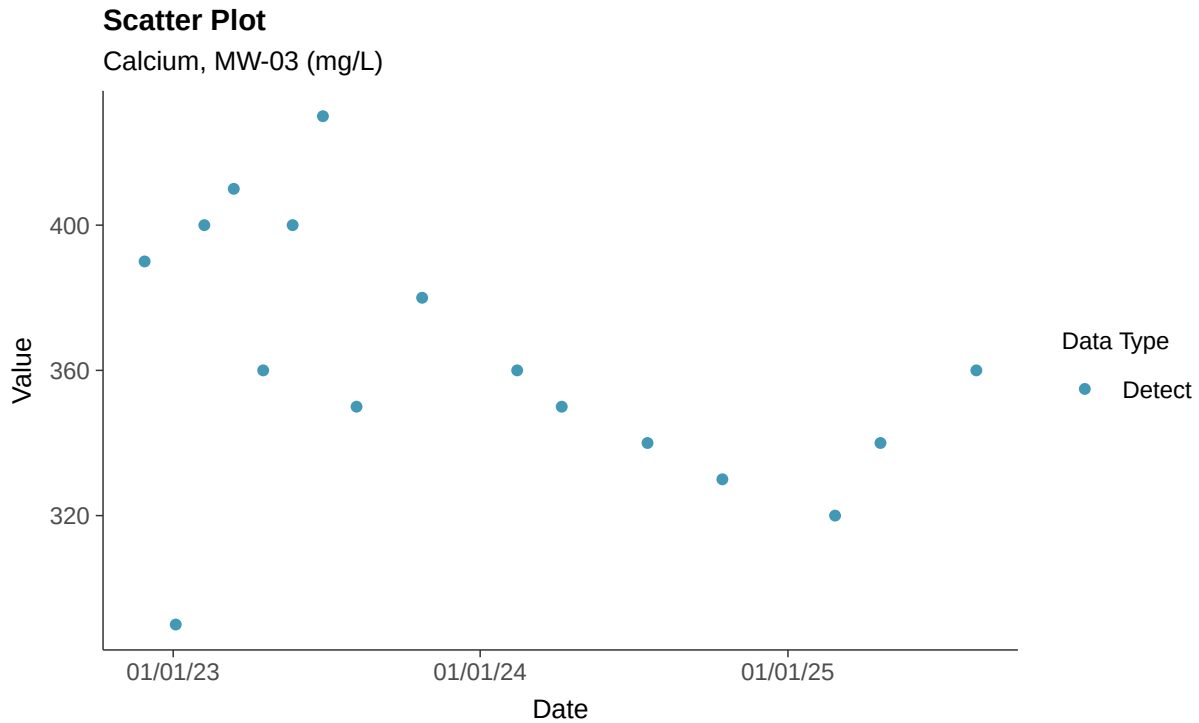
Trend Regression: Piecewise Linear-Linear

Boron, MW-03 (mg/L)



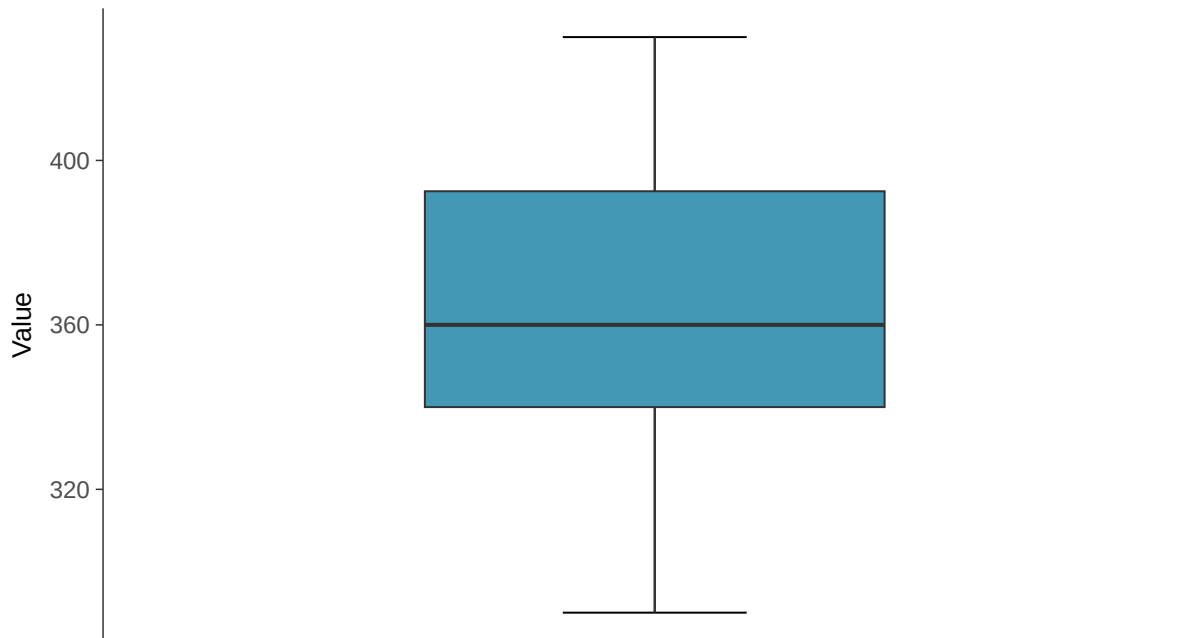
Appendix III: Calcium, MW-03

ID: 13_2_3_107



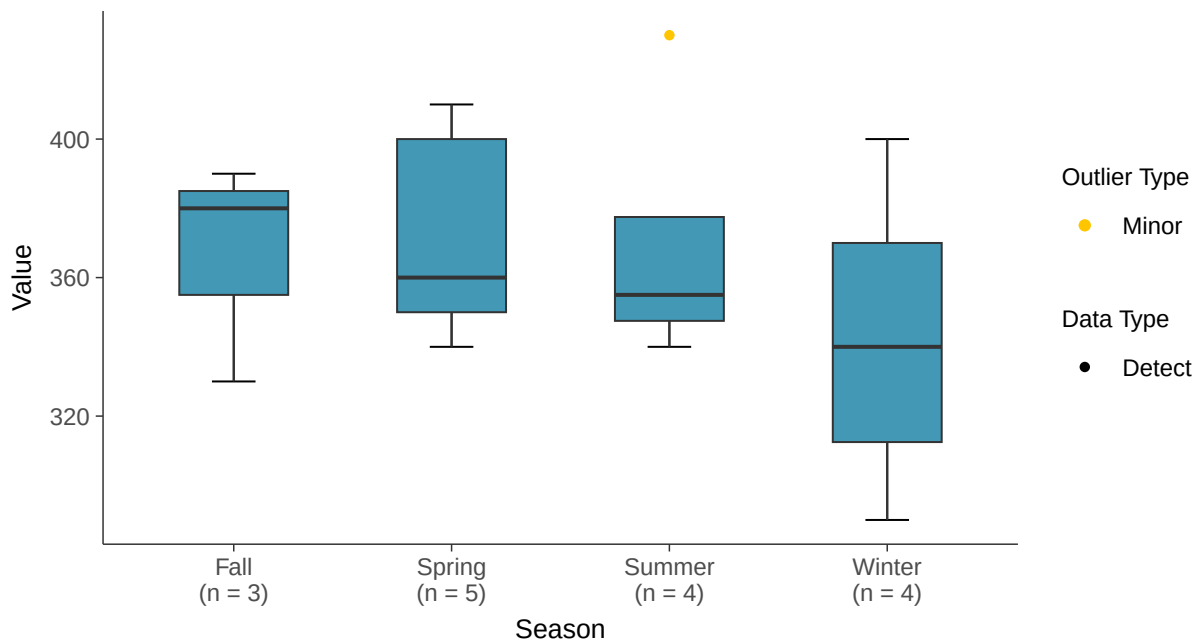
Boxplot

Calcium, MW-03 (mg/L)



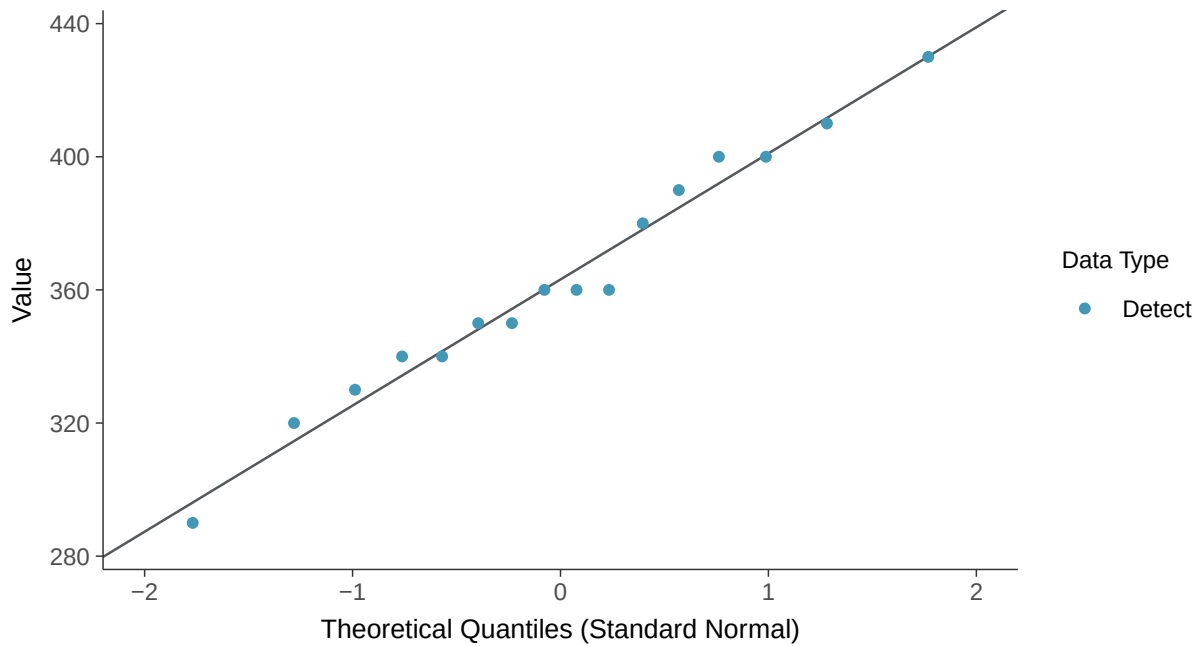
Boxplot by Season

Calcium, MW-03 (mg/L)



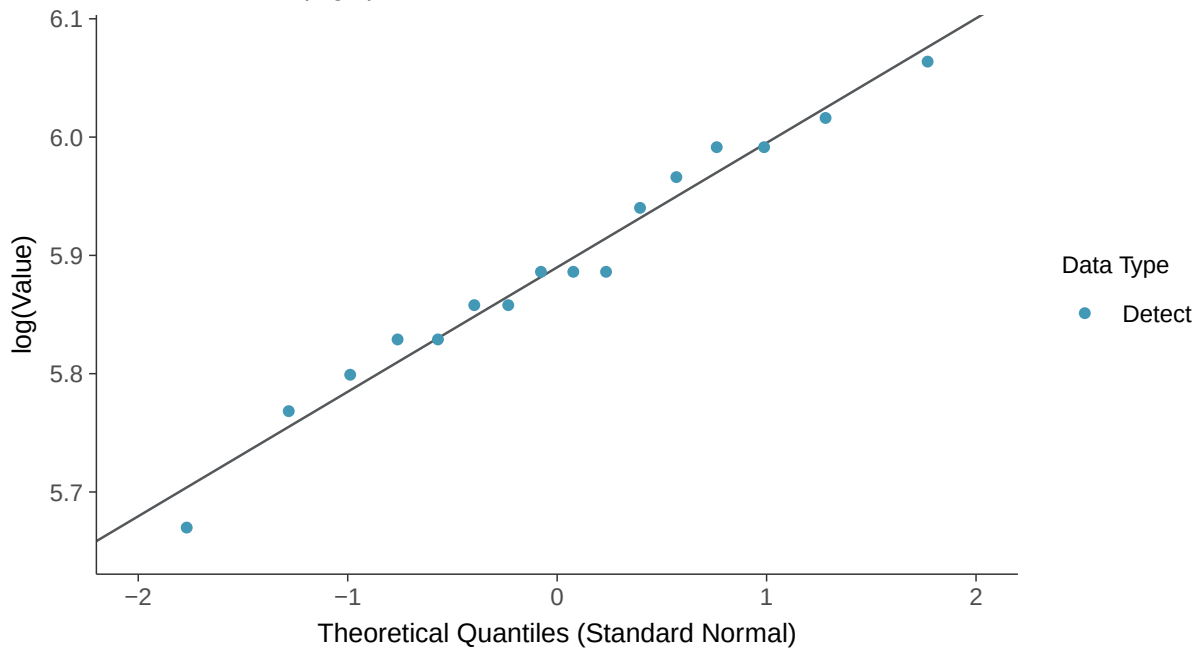
Normal Q-Q plot

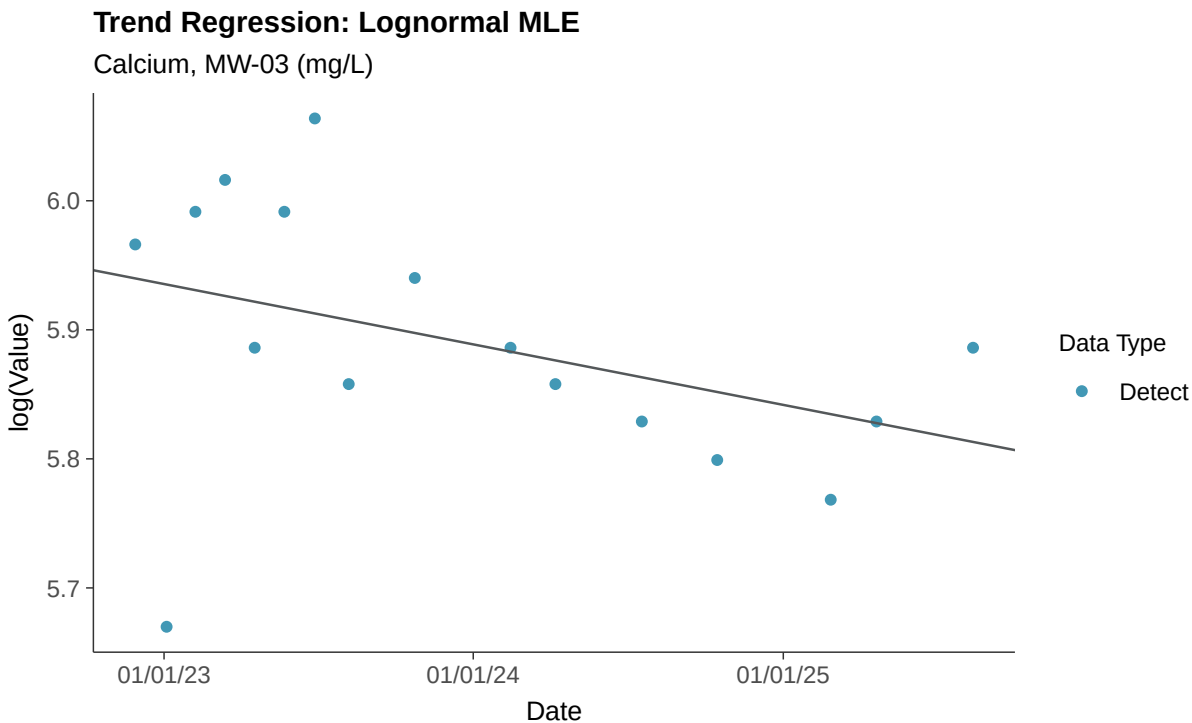
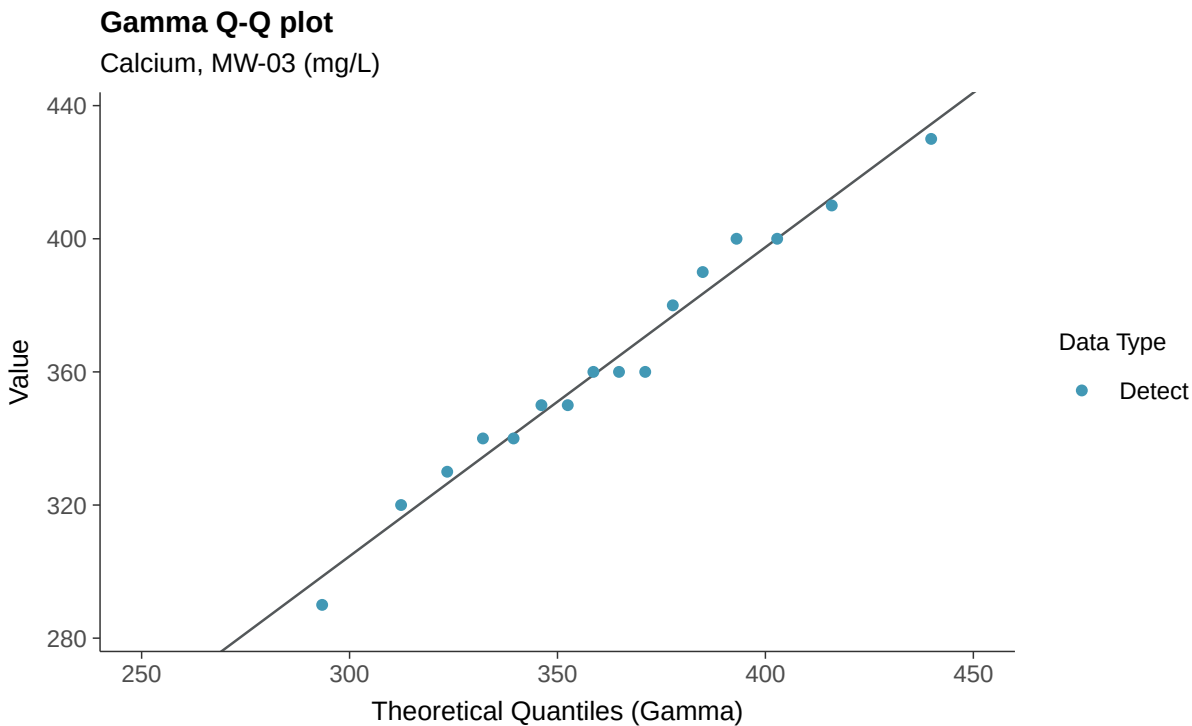
Calcium, MW-03 (mg/L)



Lognormal Q-Q plot

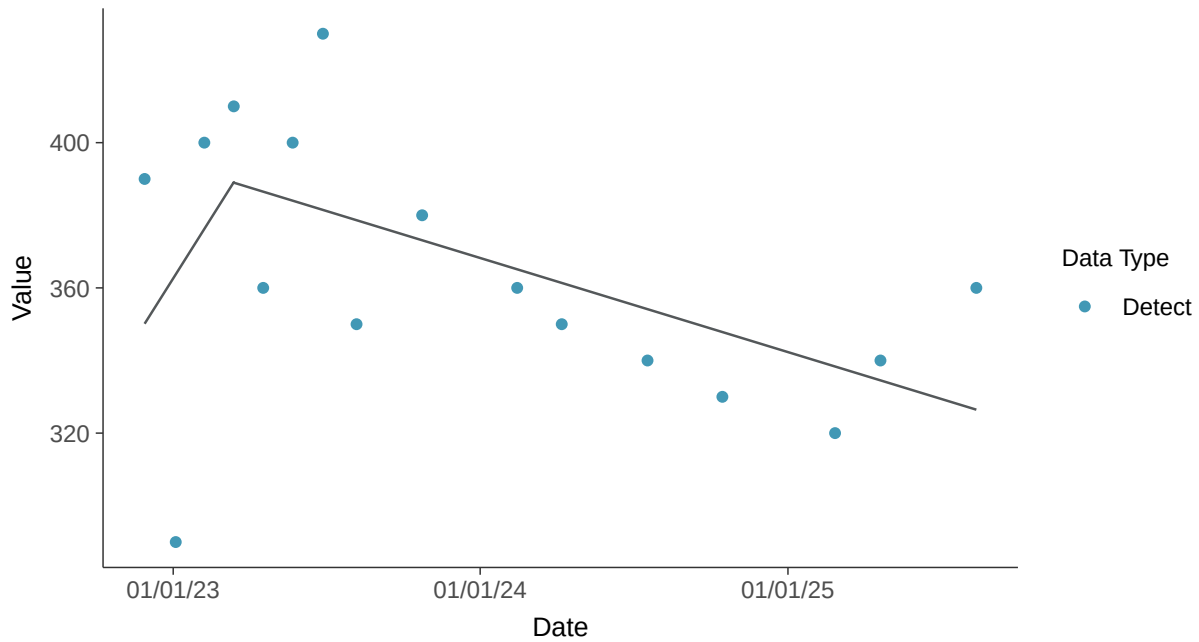
Calcium, MW-03 (mg/L)





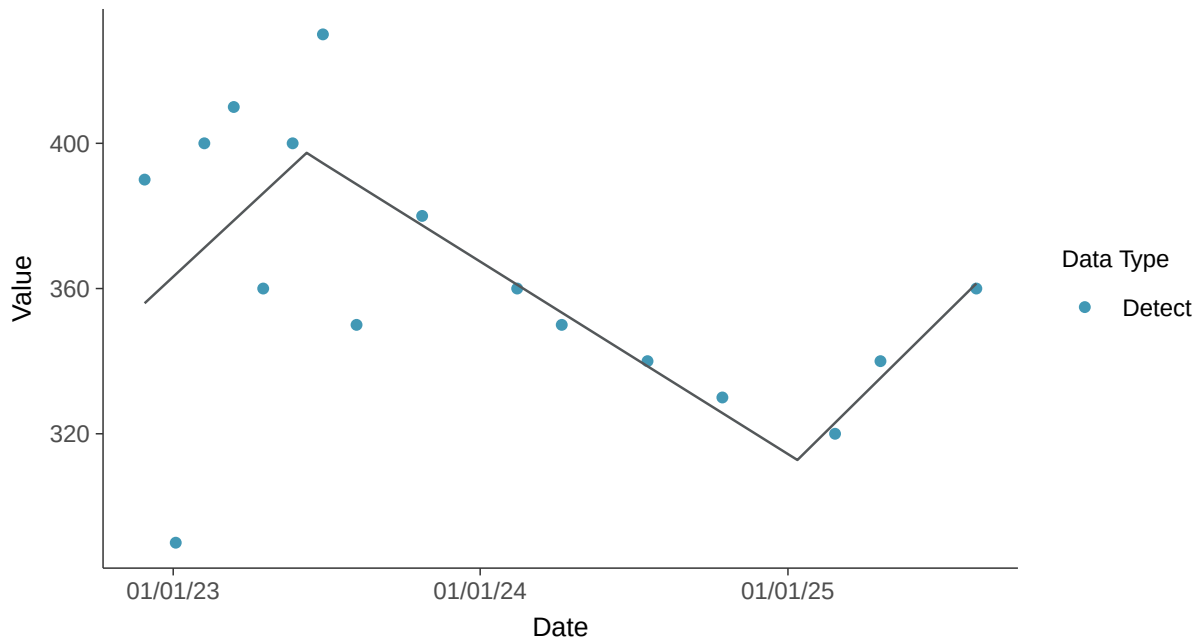
Trend Regression: Piecewise Linear-Linear

Calcium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-03 (mg/L)

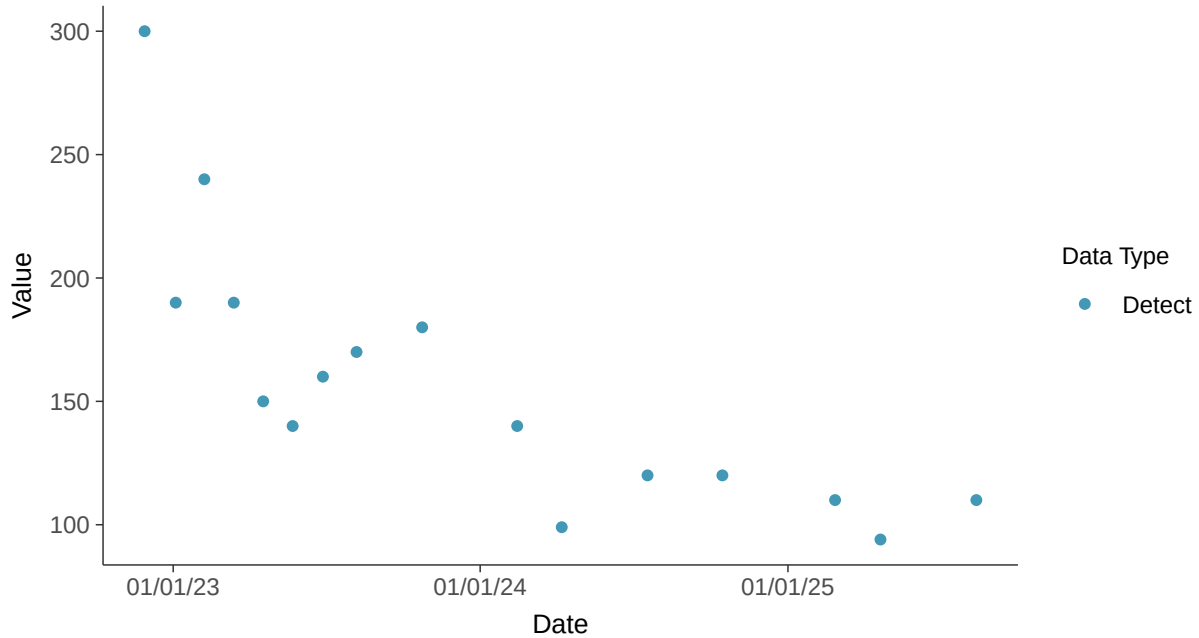


Appendix III: Chloride (as Cl), MW-03

ID: 13_2_3_108

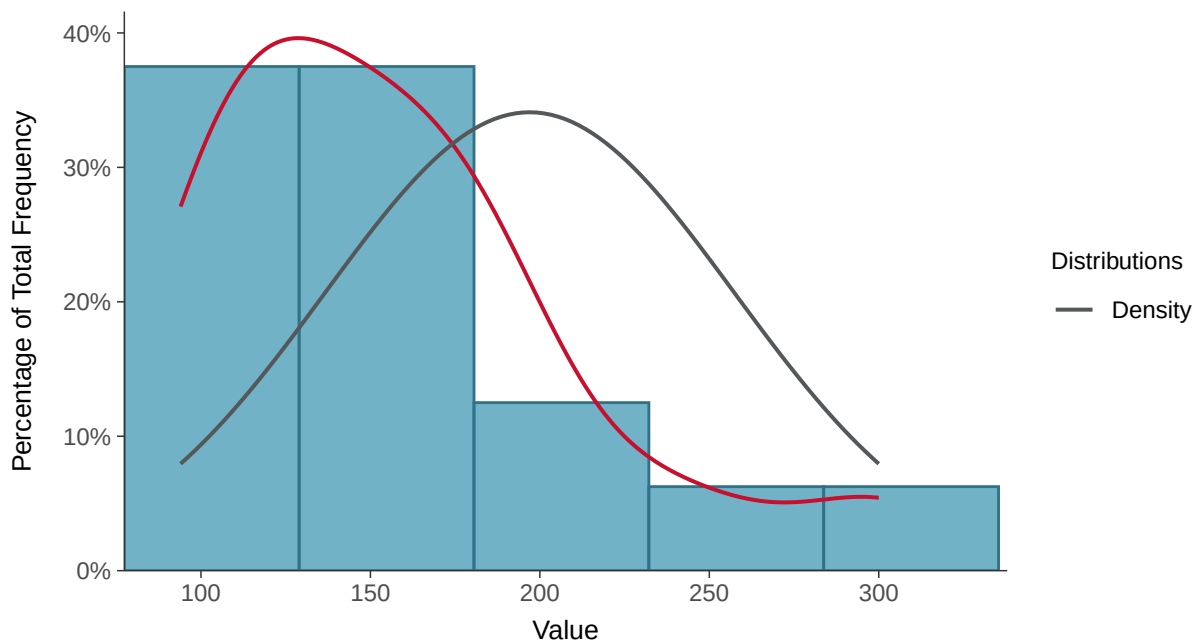
Scatter Plot

Chloride (as Cl), MW-03 (mg/L)



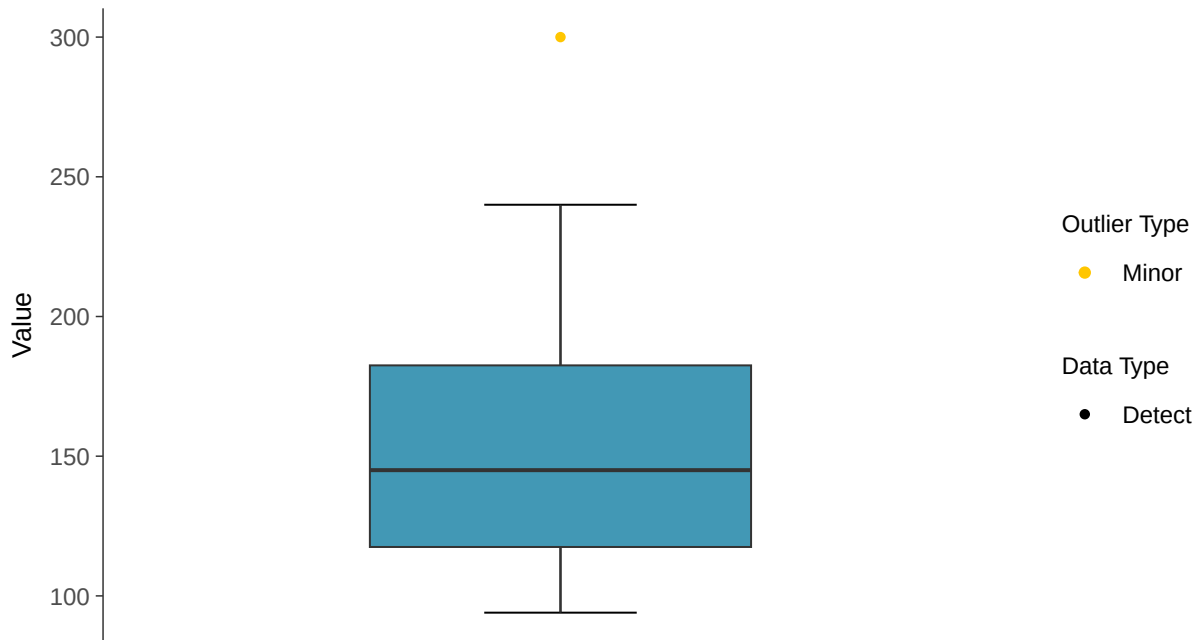
Histogram

Chloride (as Cl), MW-03 (mg/L)



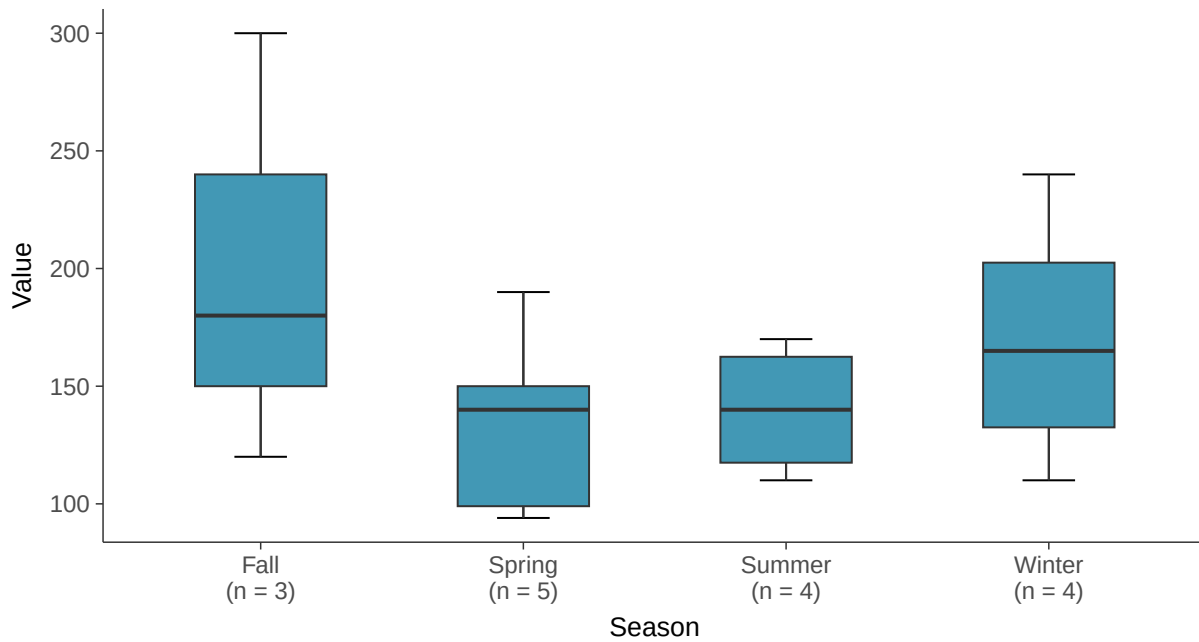
Boxplot

Chloride (as Cl), MW-03 (mg/L)



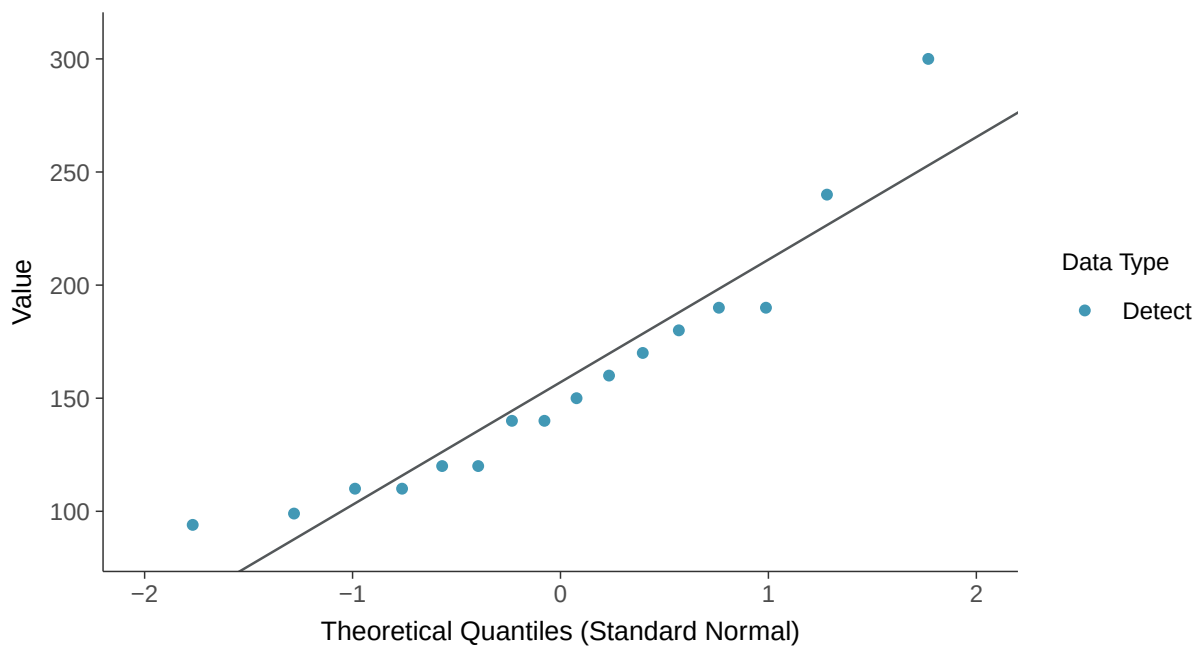
Boxplot by Season

Chloride (as Cl), MW-03 (mg/L)



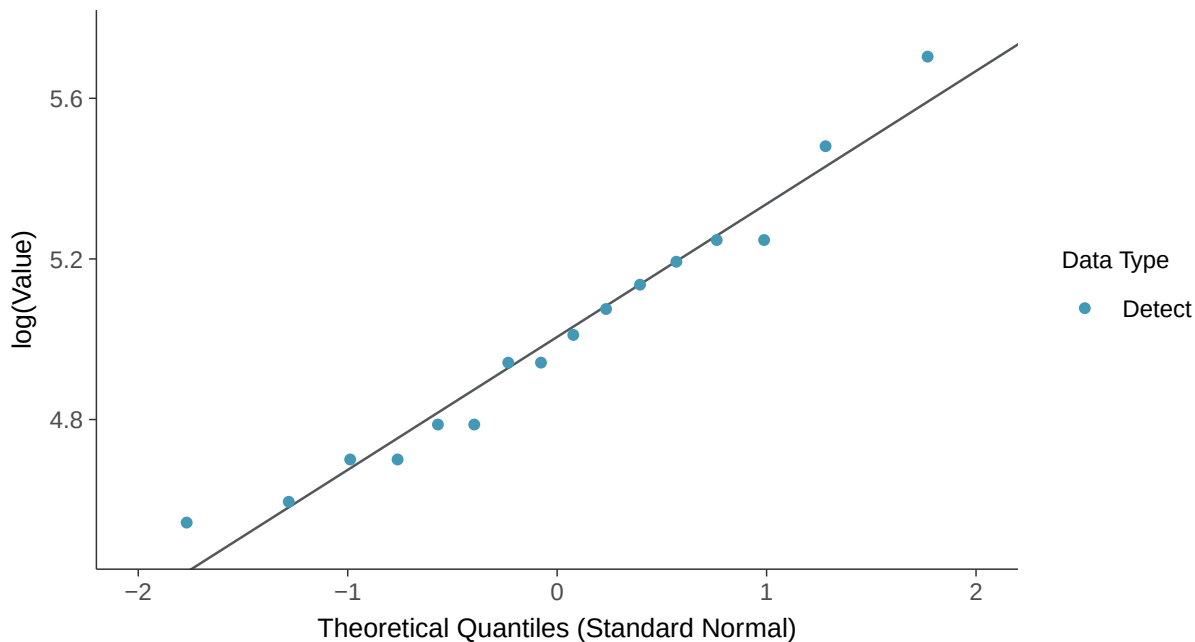
Normal Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



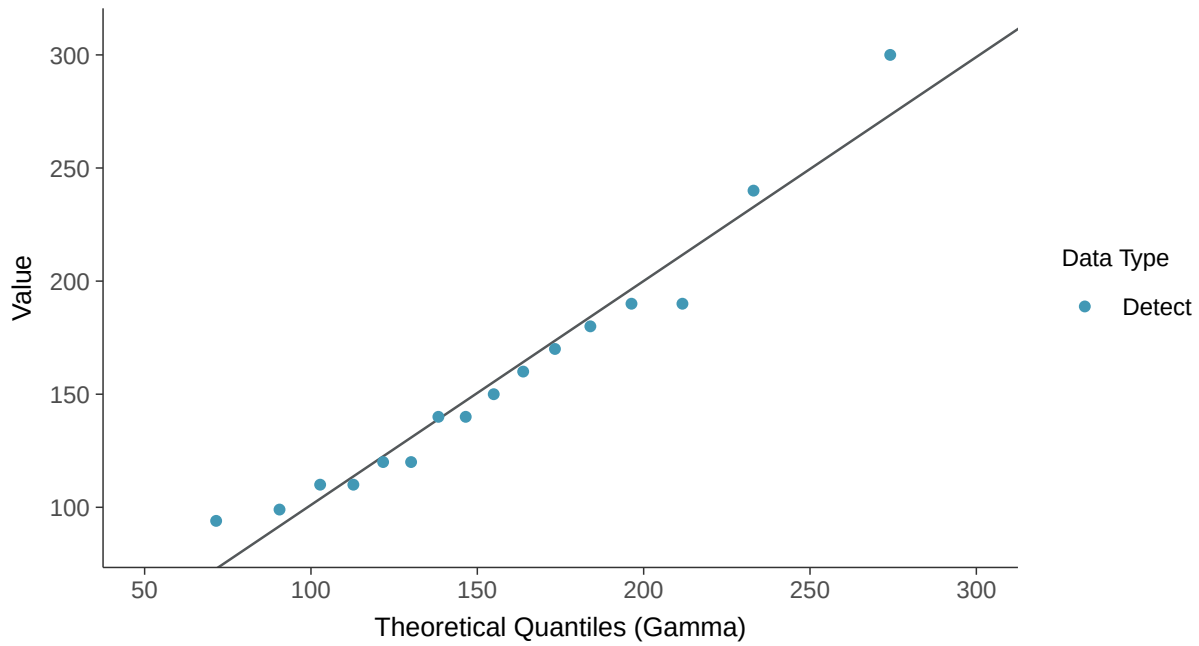
Lognormal Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



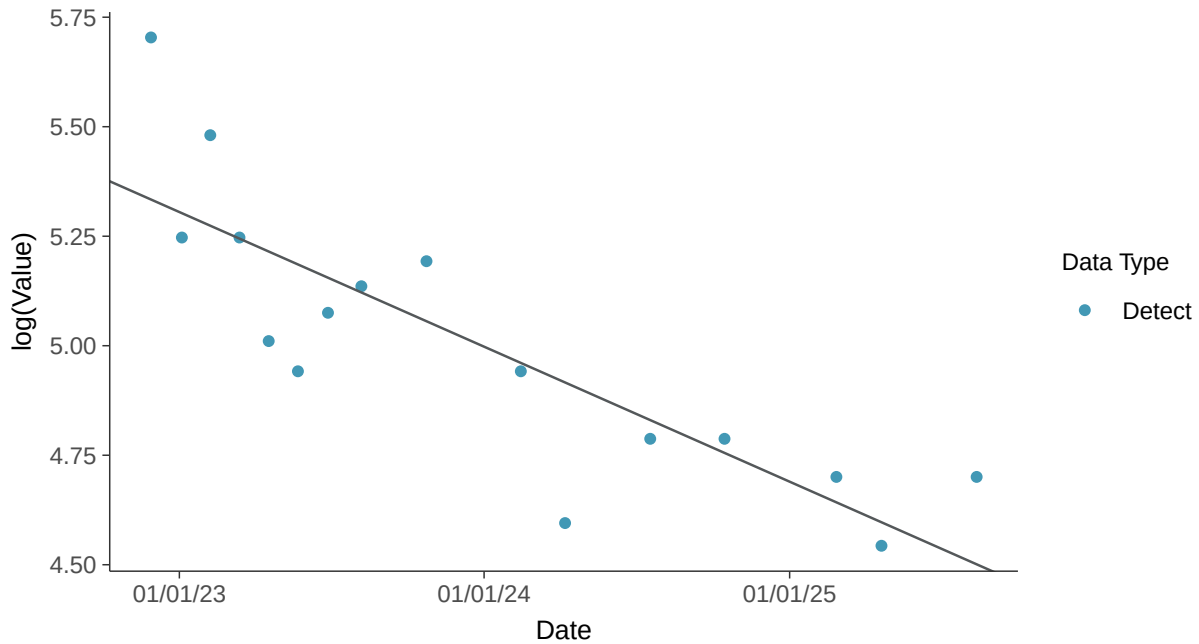
Gamma Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



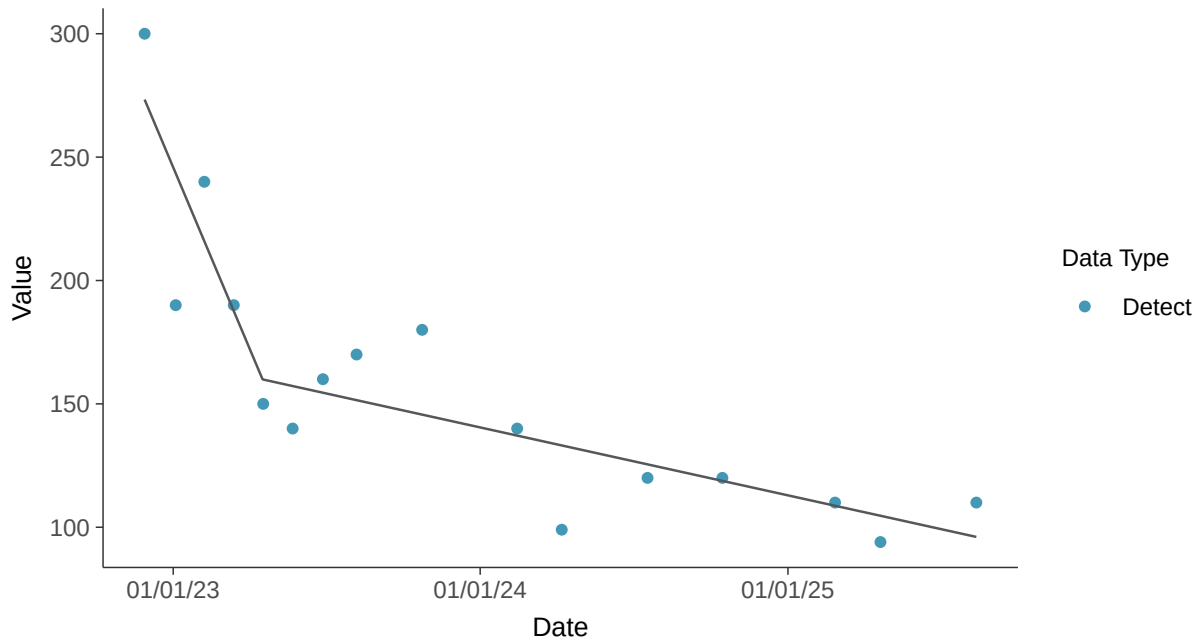
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-03 (mg/L)



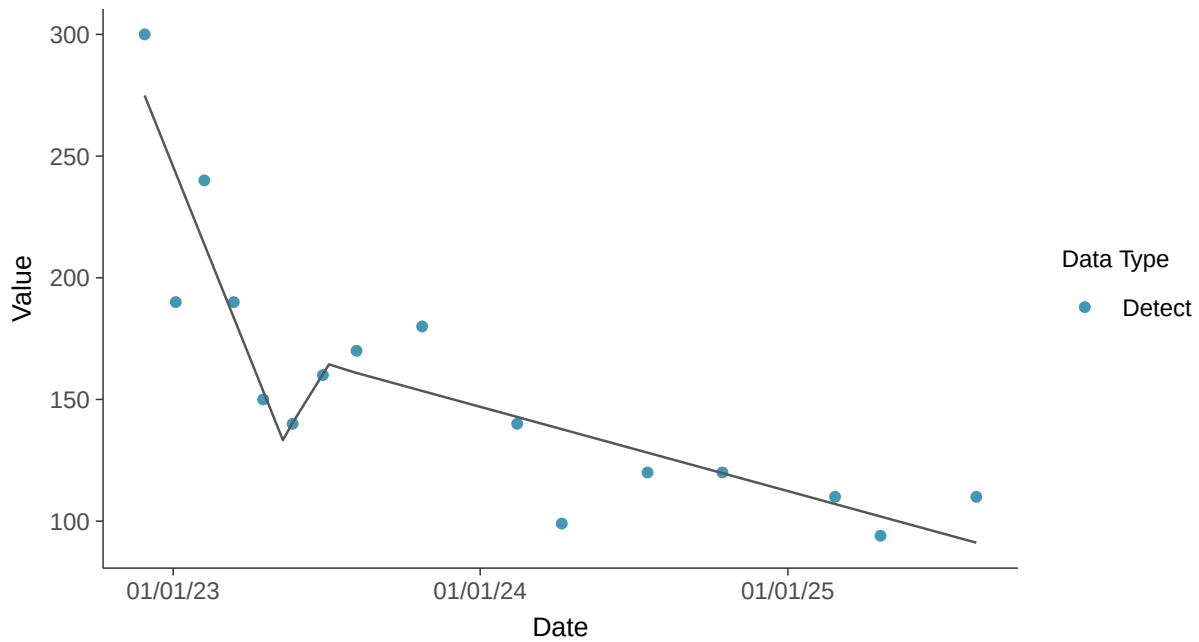
Trend Regression: Piecewise Linear-Linear

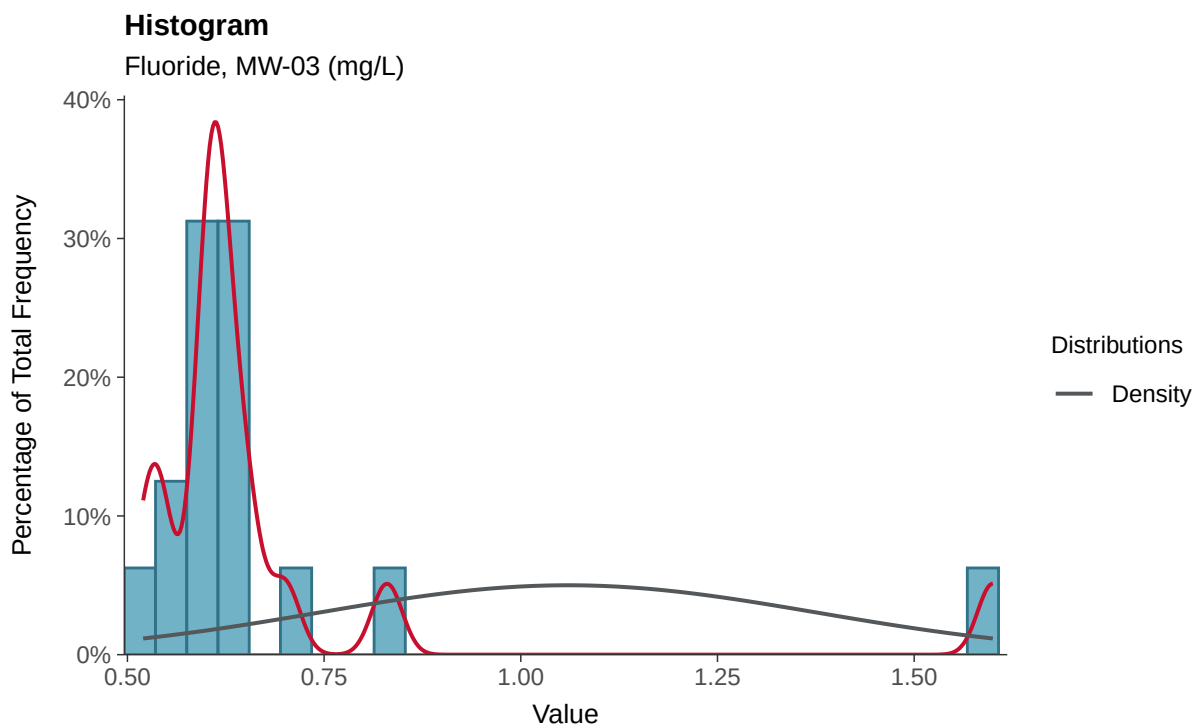
Chloride (as Cl), MW-03 (mg/L)

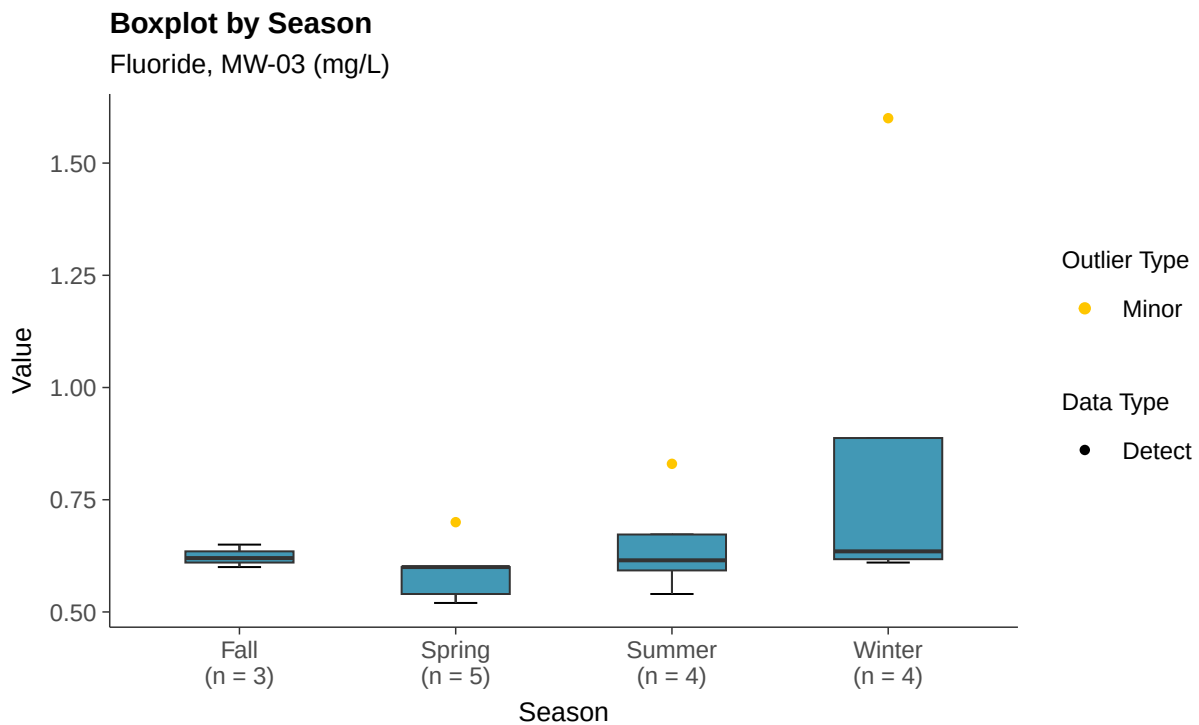
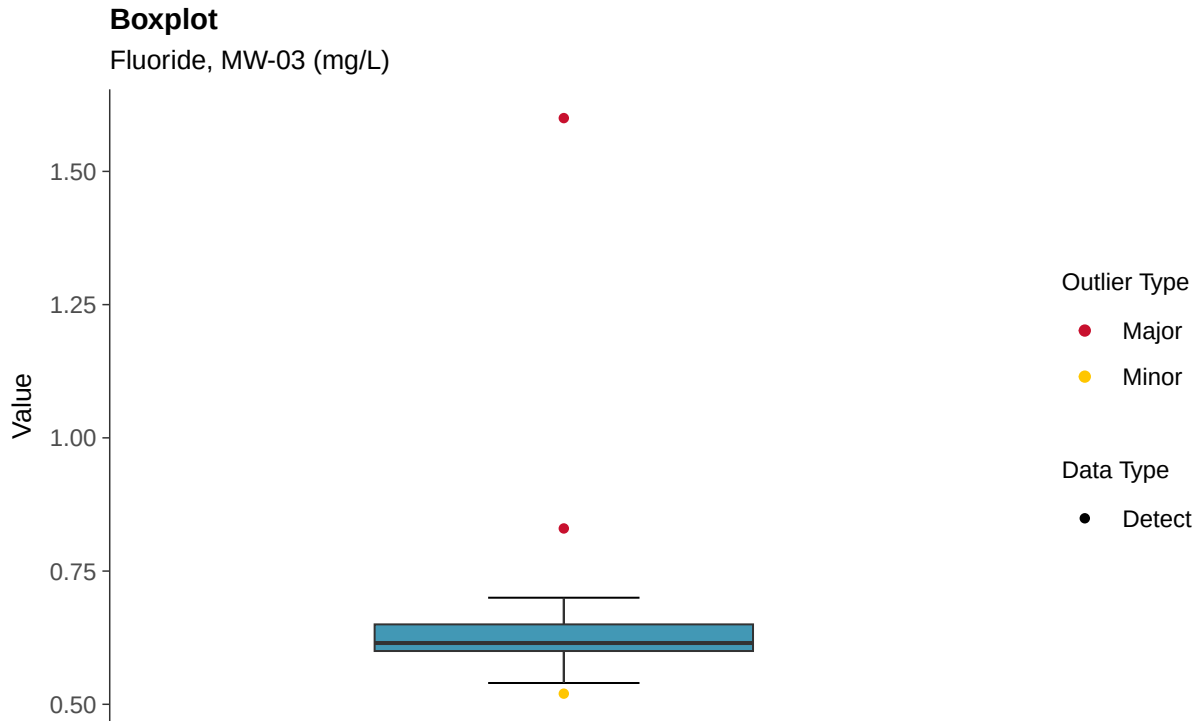


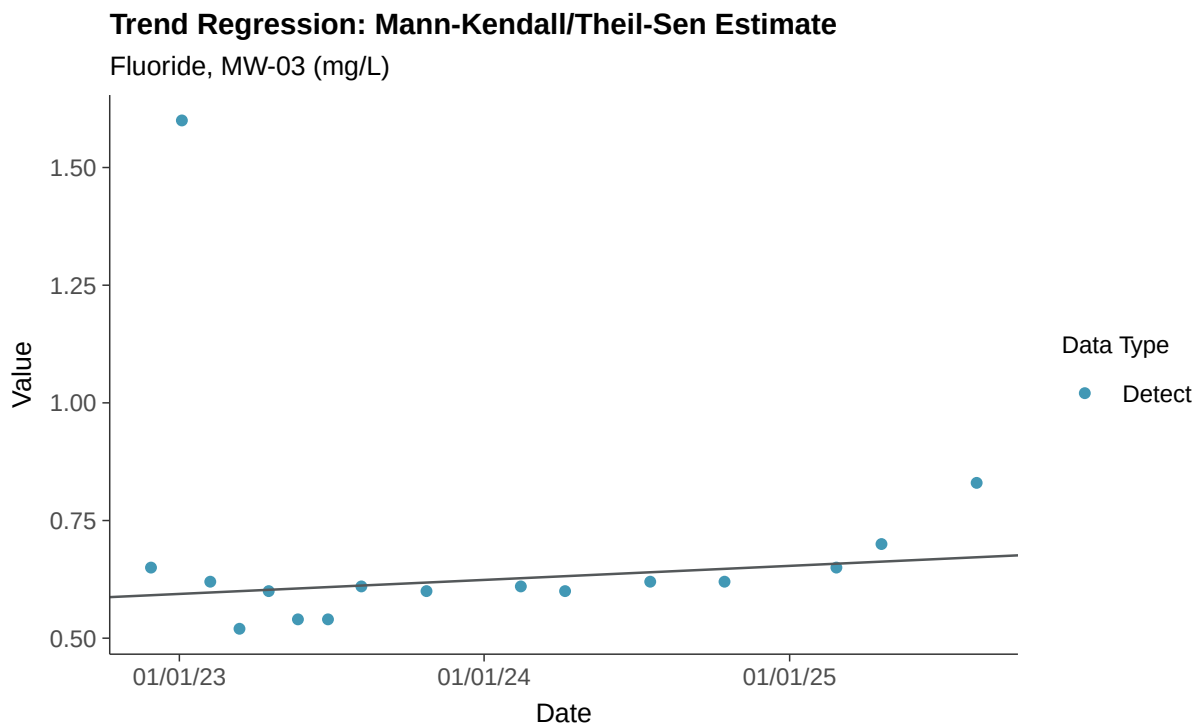
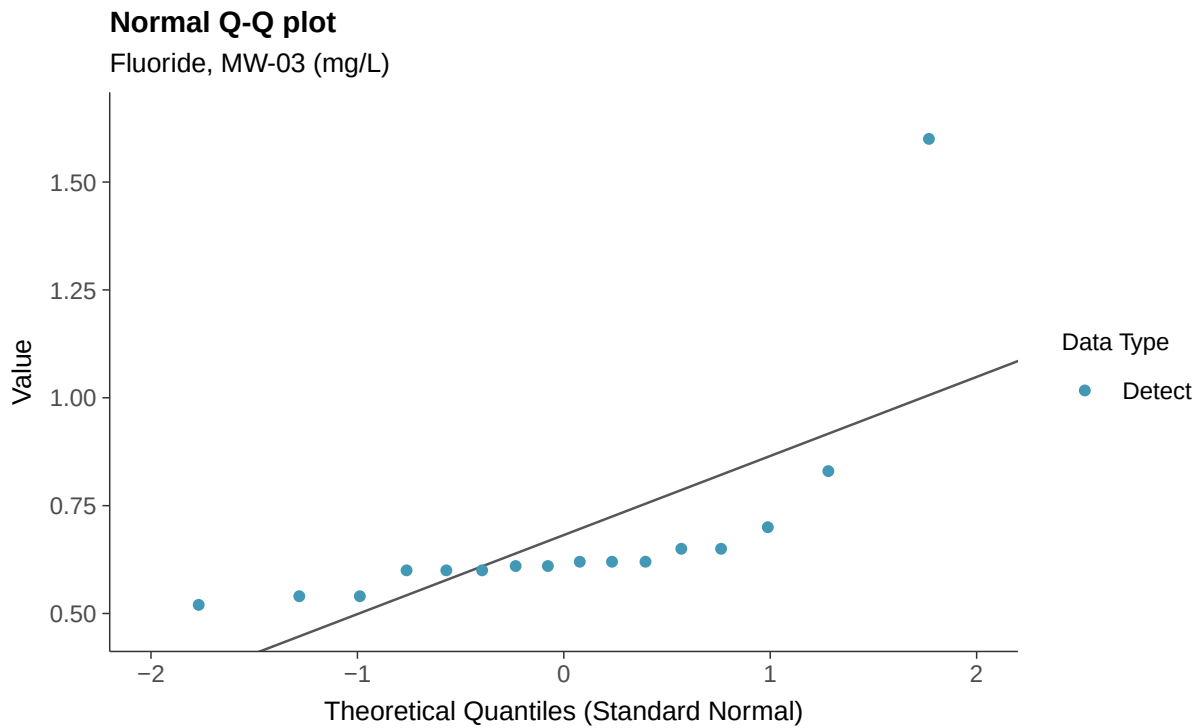
Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-03 (mg/L)



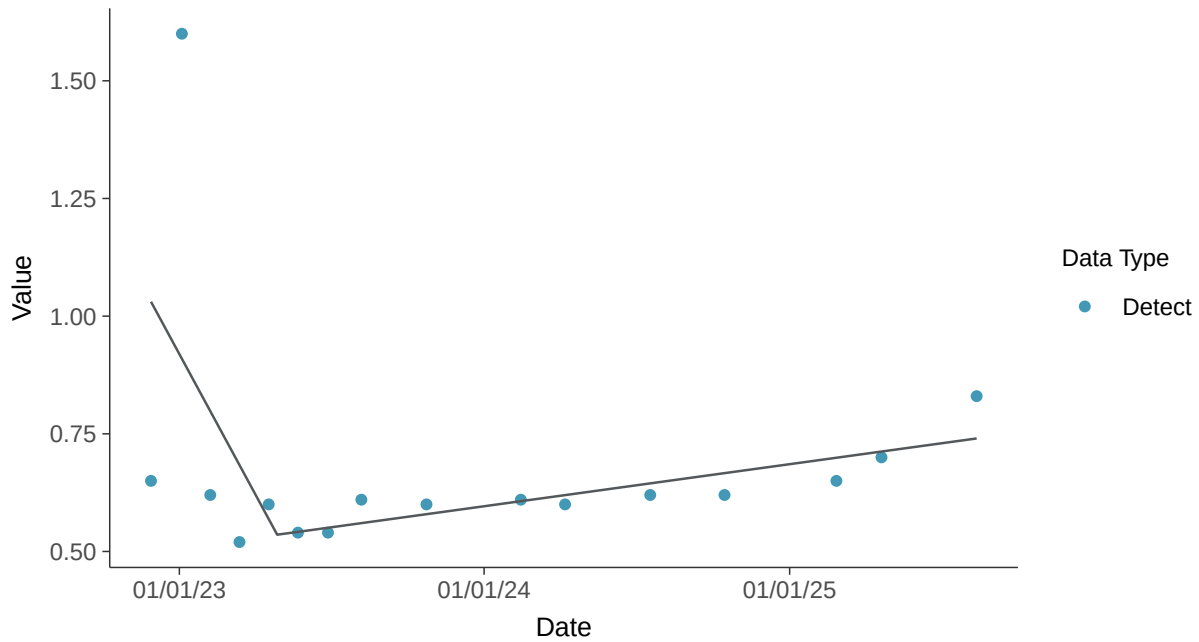






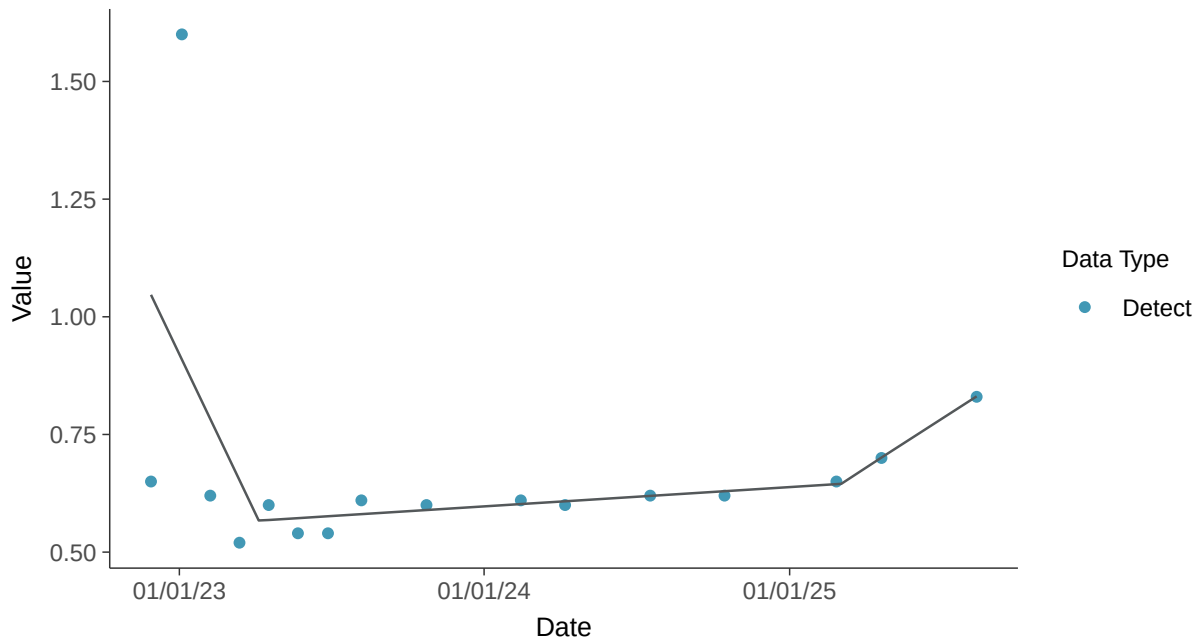
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-03 (mg/L)



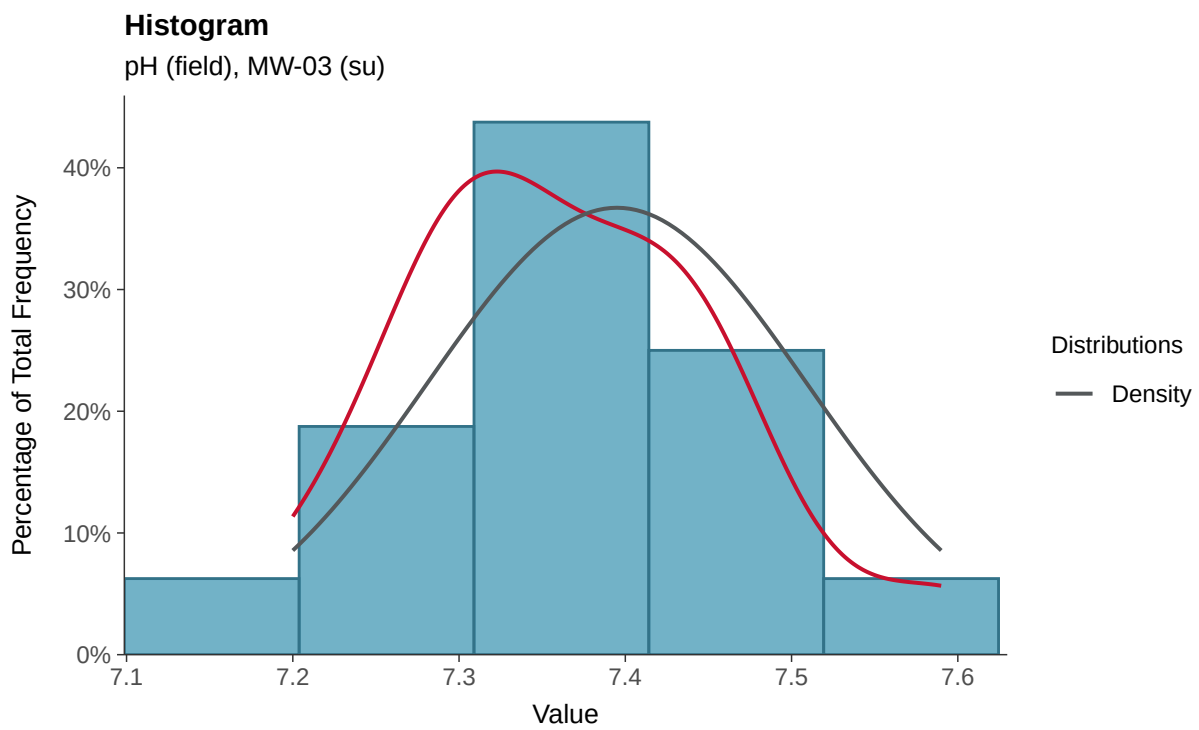
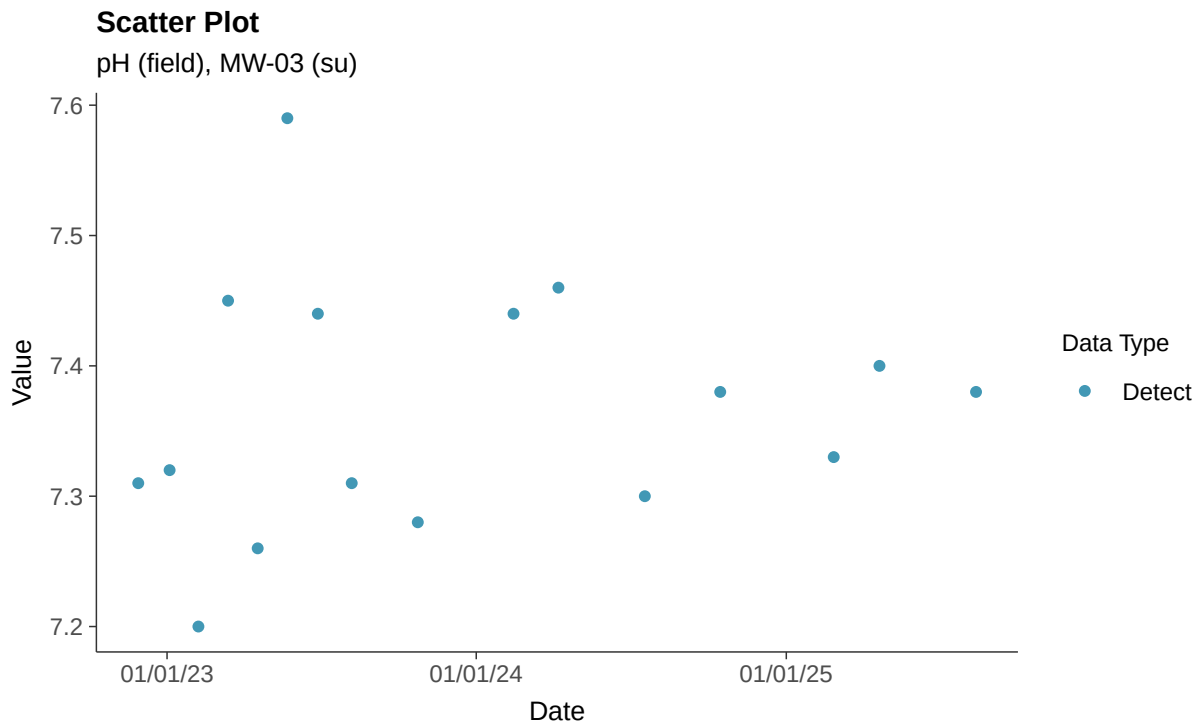
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-03 (mg/L)



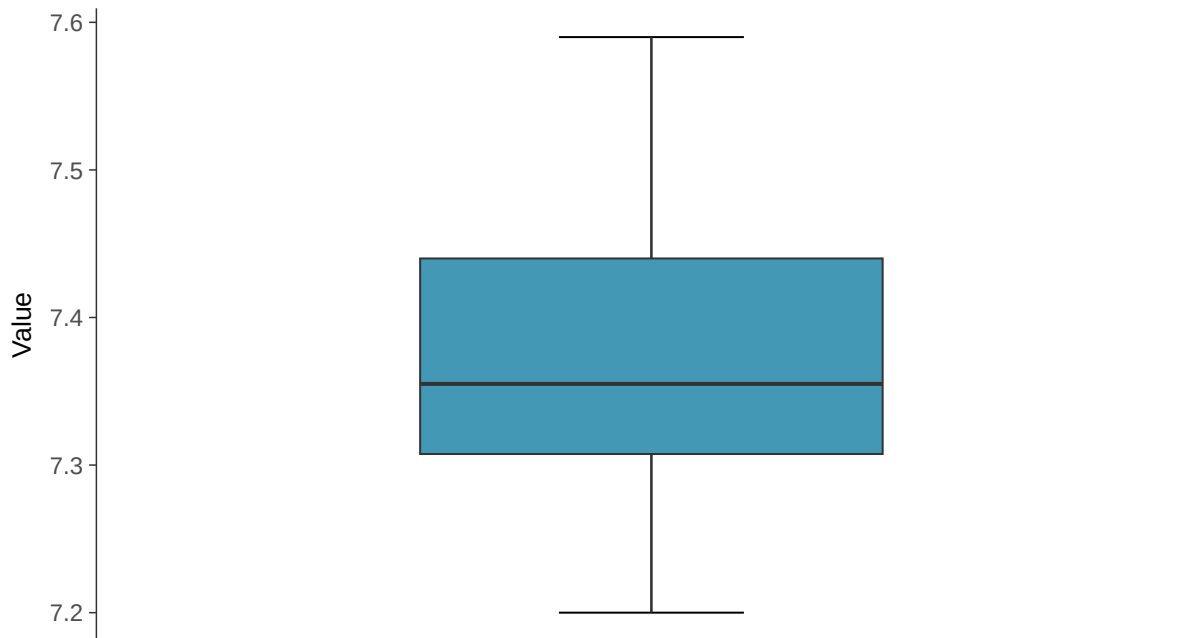
Appendix III: pH (field), MW-03

ID: 13_2_3_120



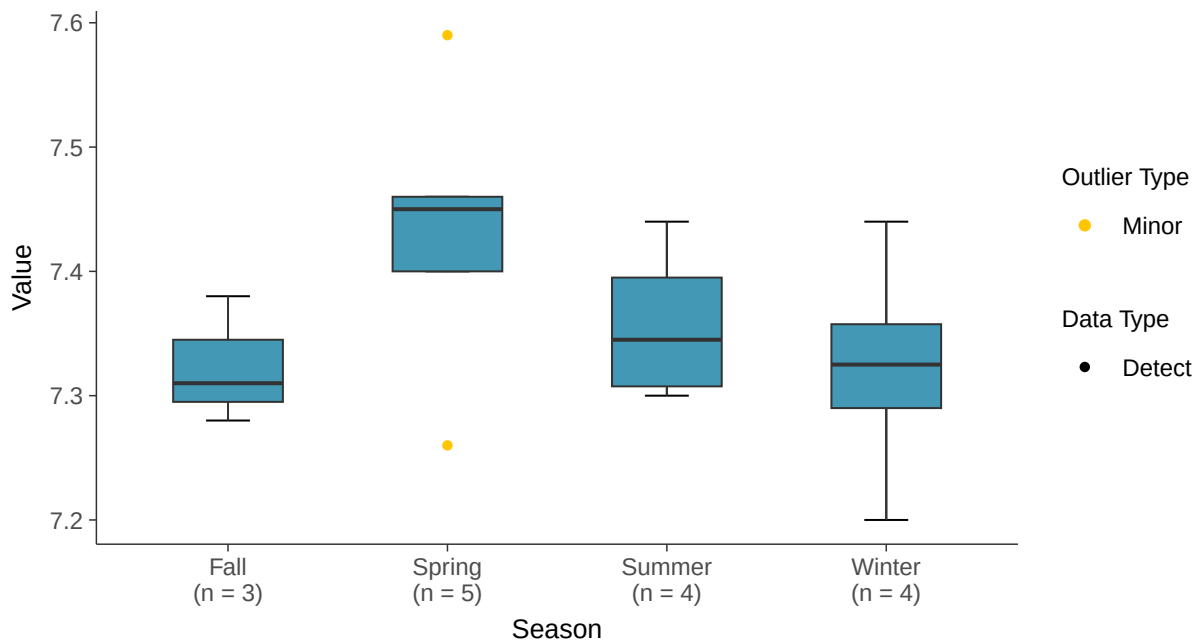
Boxplot

pH (field), MW-03 (su)



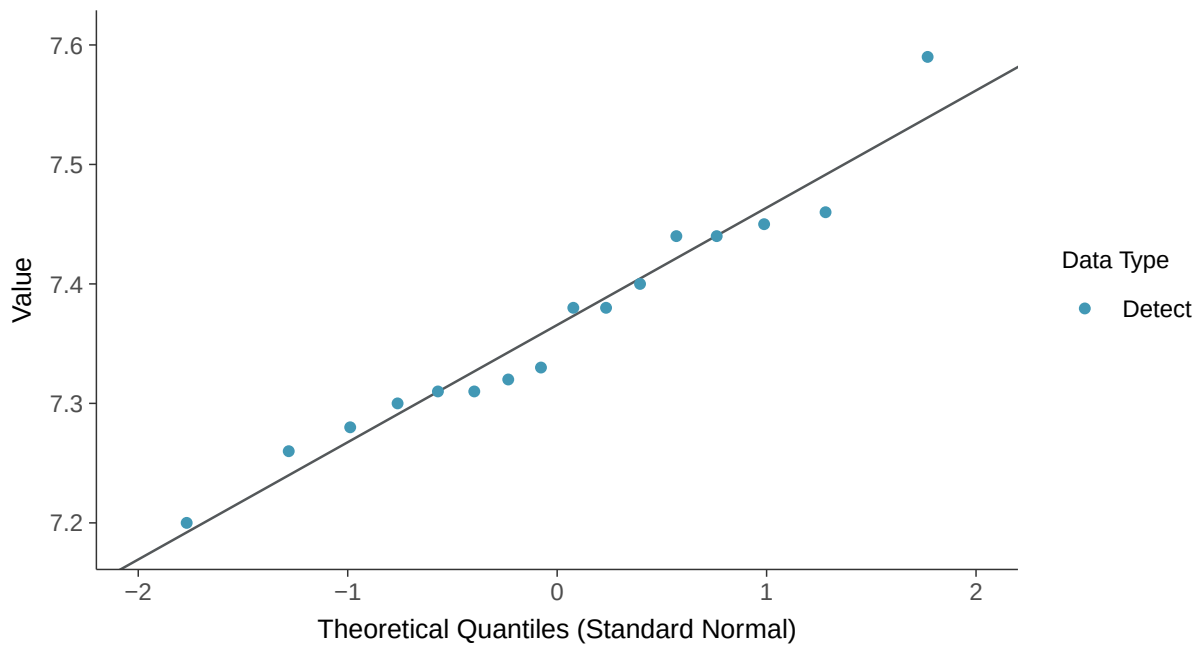
Boxplot by Season

pH (field), MW-03 (su)



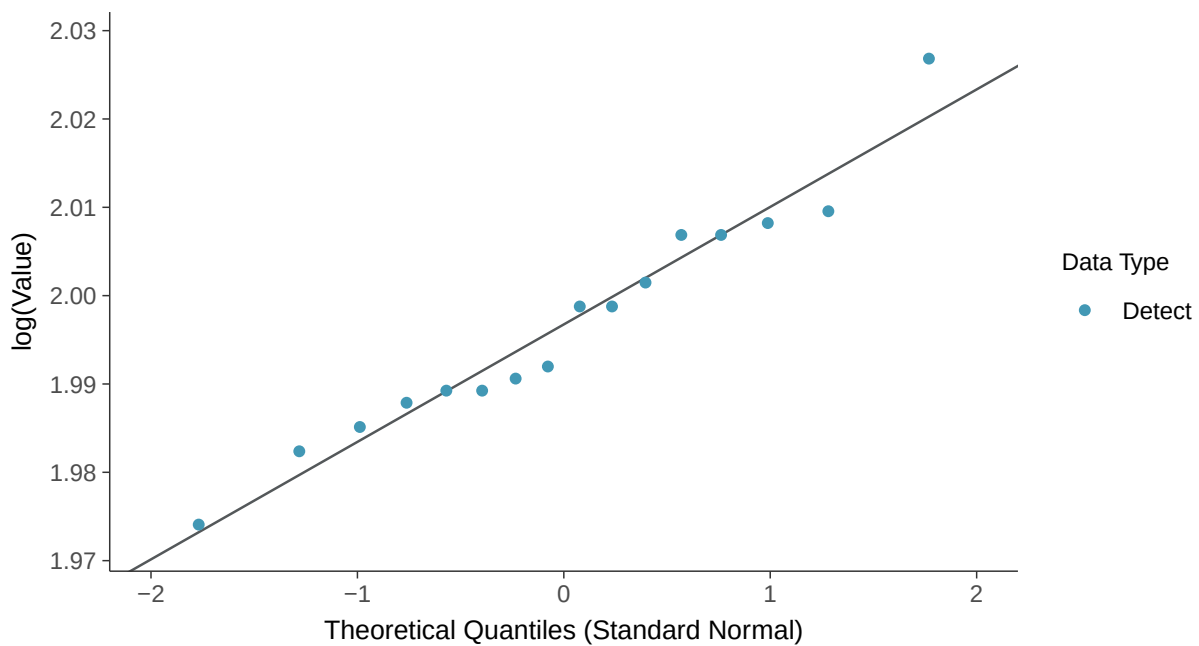
Normal Q-Q plot

pH (field), MW-03 (su)



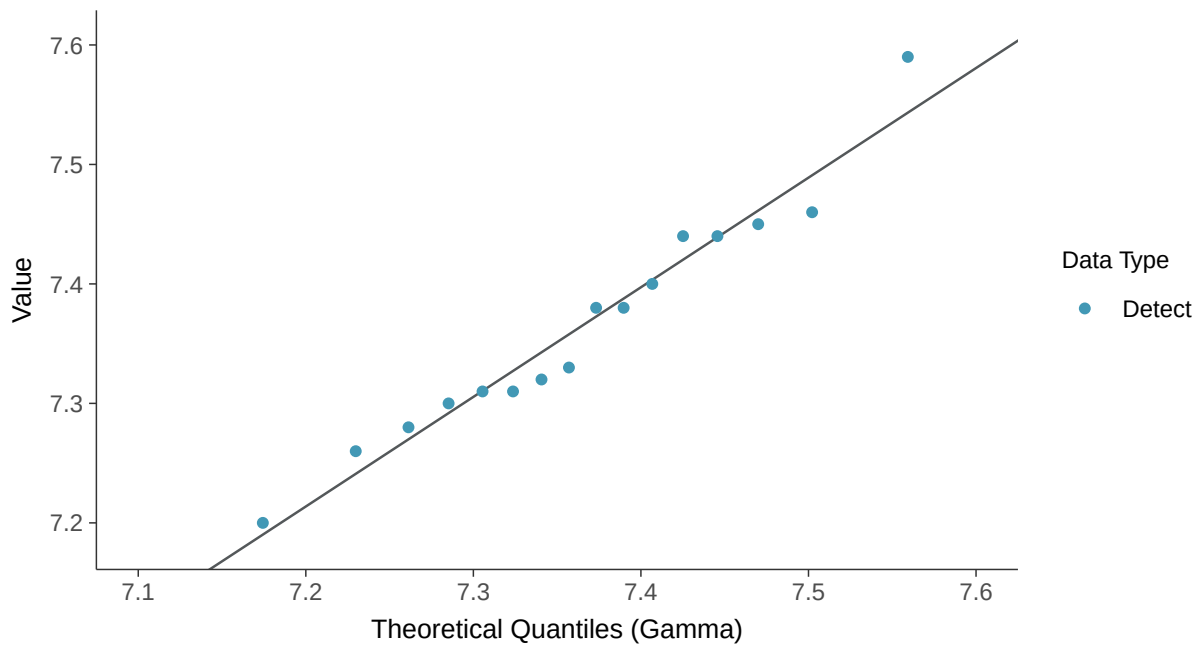
Lognormal Q-Q plot

pH (field), MW-03 (su)



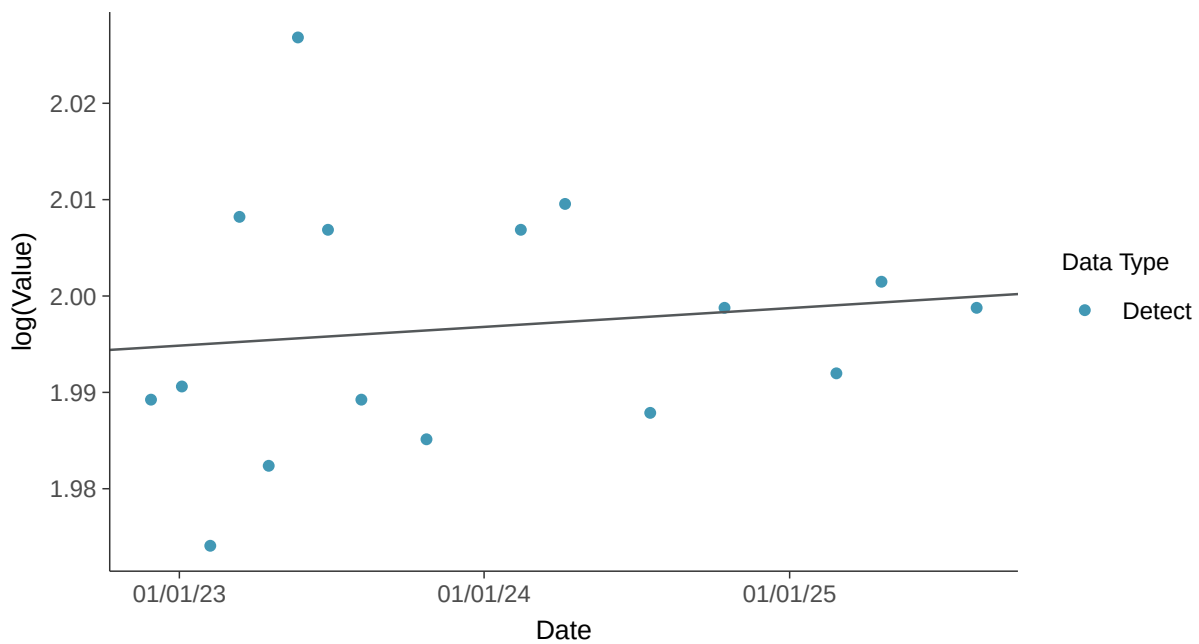
Gamma Q-Q plot

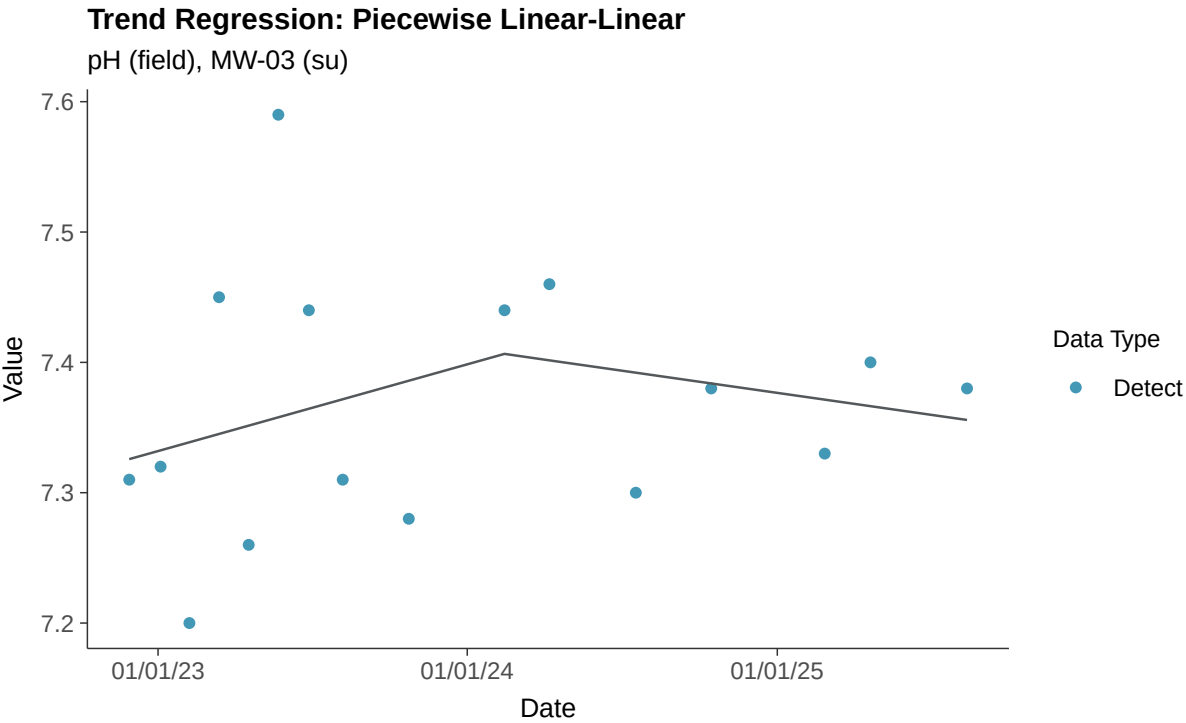
pH (field), MW-03 (su)



Trend Regression: Lognormal MLE

pH (field), MW-03 (su)



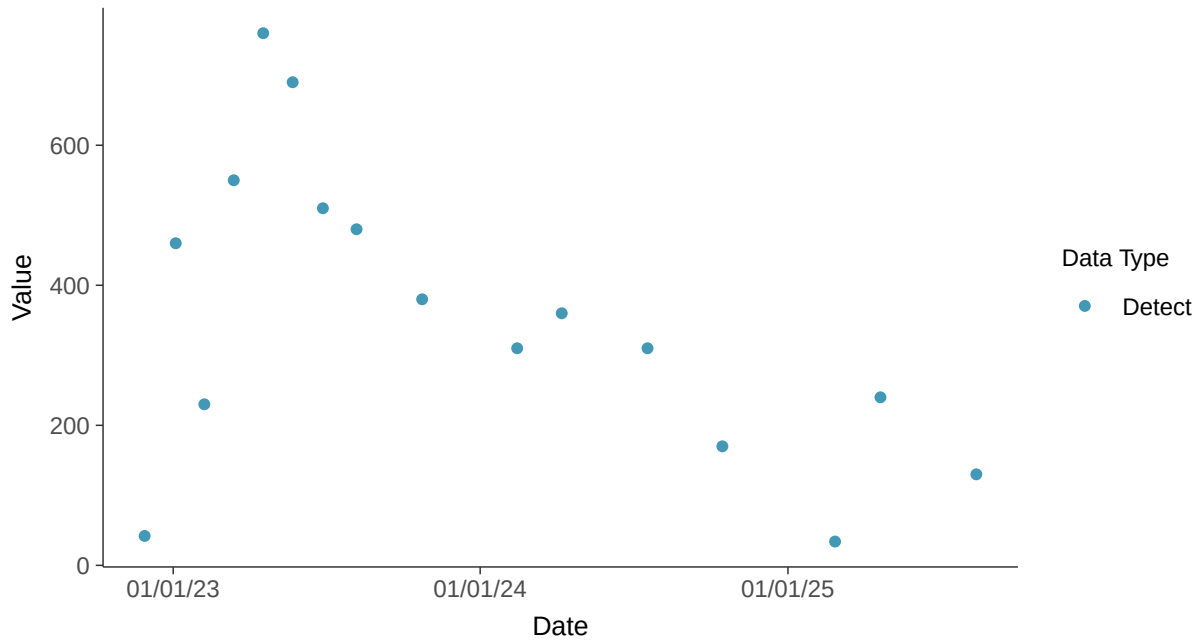


Appendix III: Sulfate (as SO₄), MW-03

ID: 13_2_3_124

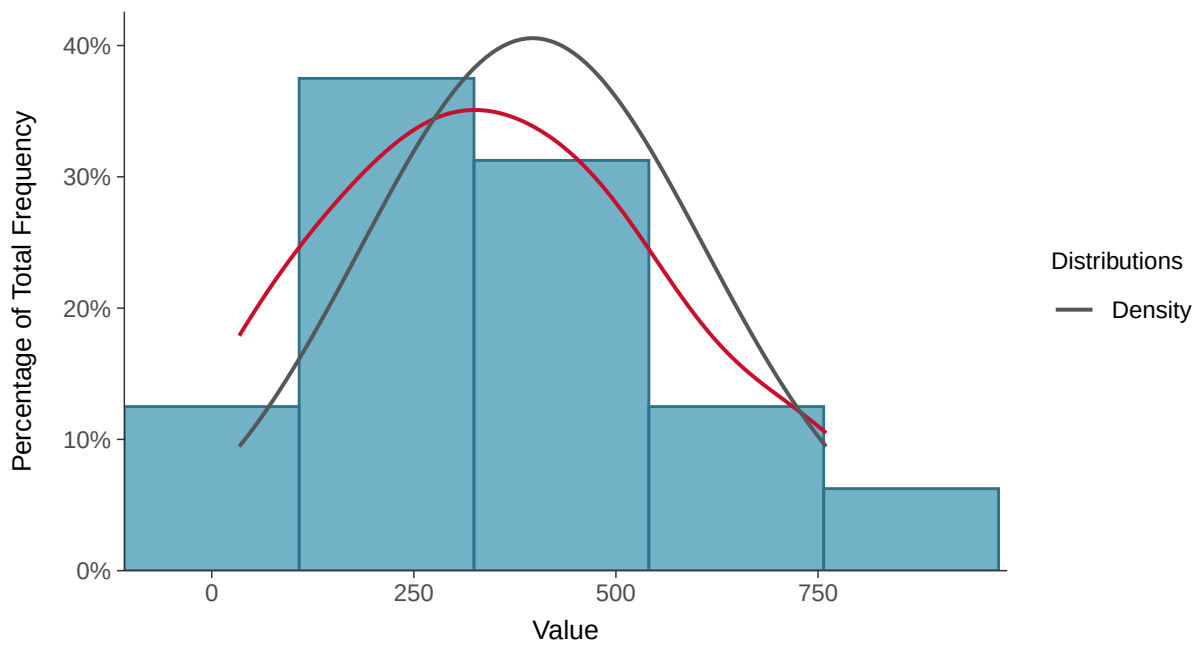
Scatter Plot

Sulfate (as SO₄), MW-03 (mg/L)



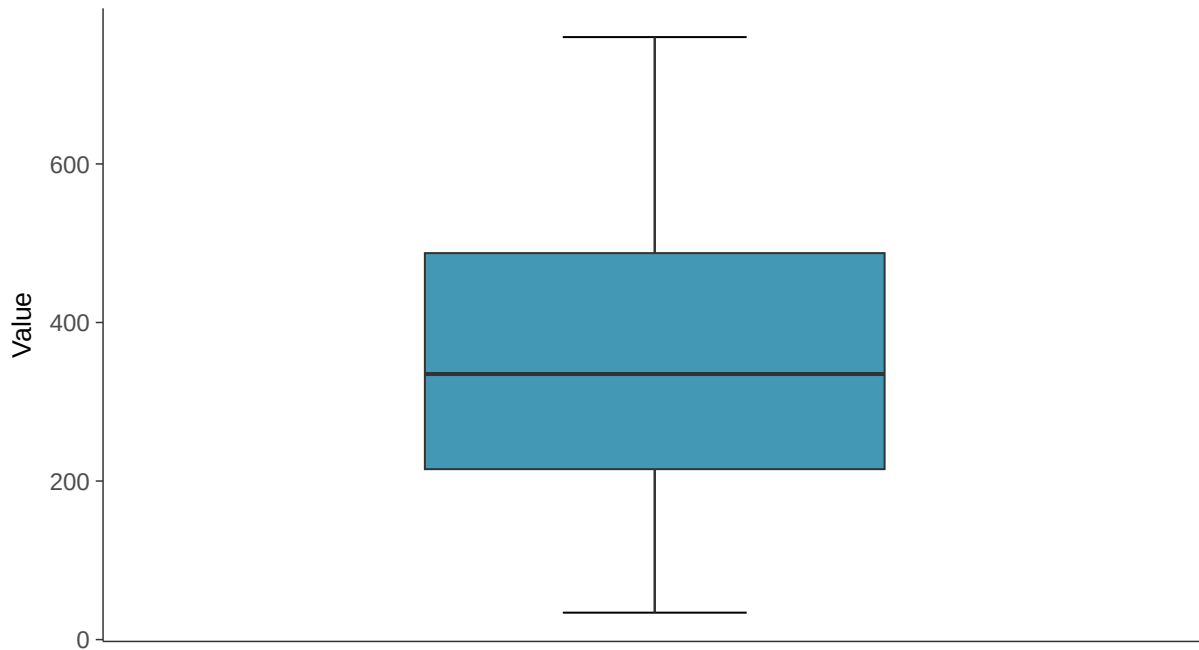
Histogram

Sulfate (as SO₄), MW-03 (mg/L)



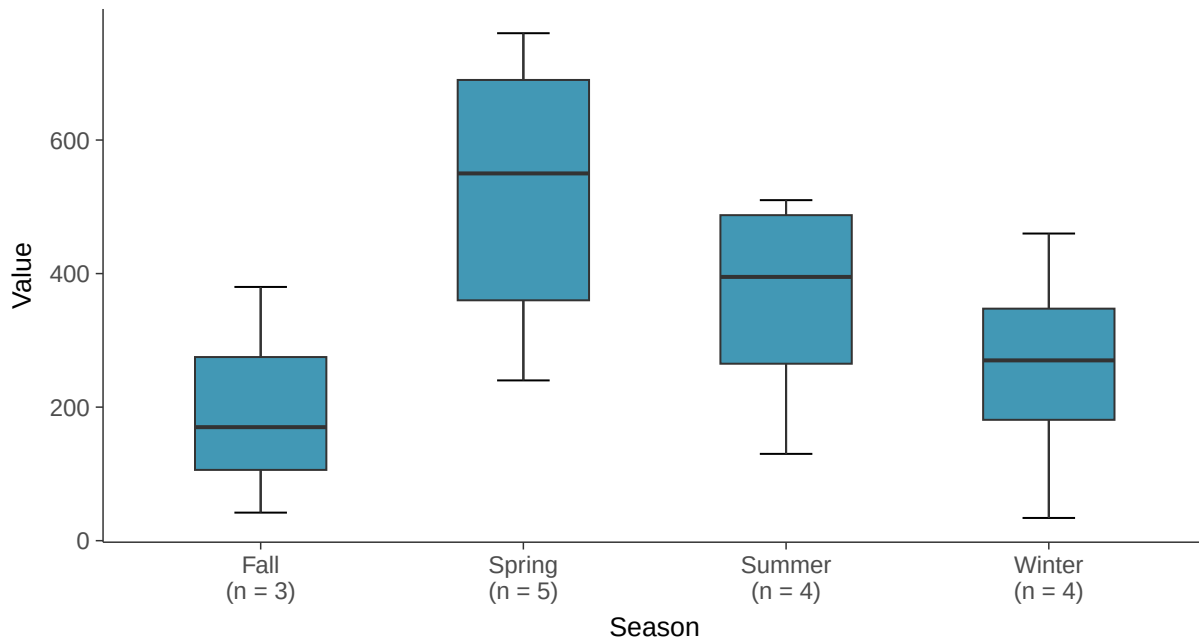
Boxplot

Sulfate (as SO₄), MW-03 (mg/L)



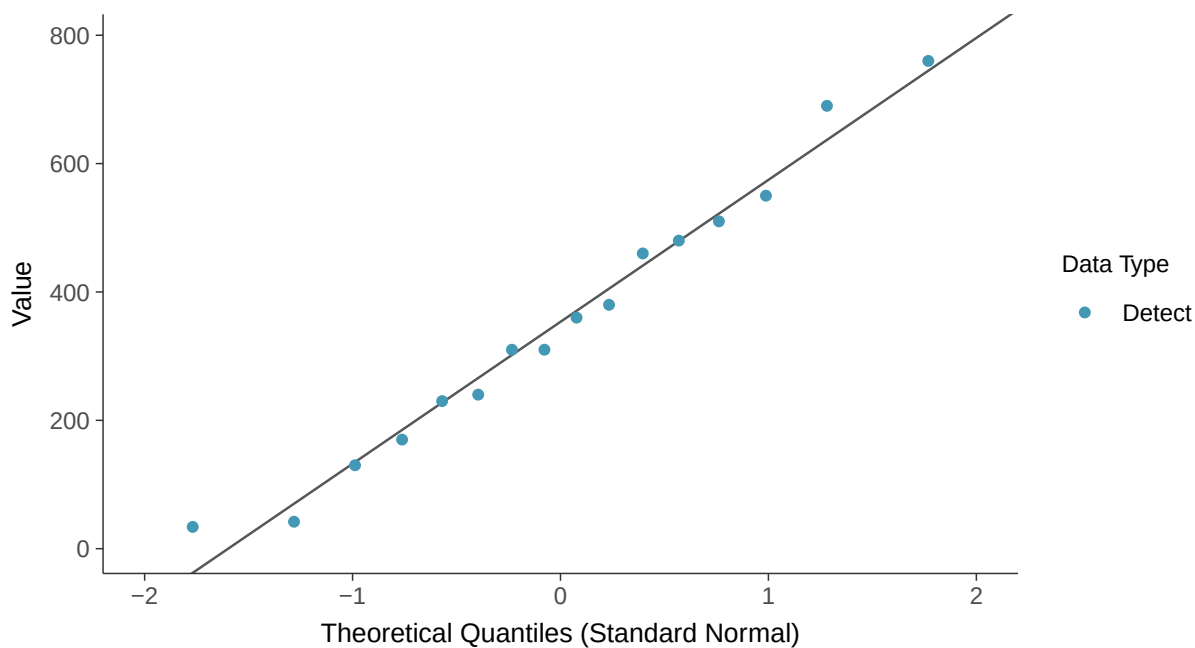
Boxplot by Season

Sulfate (as SO₄), MW-03 (mg/L)



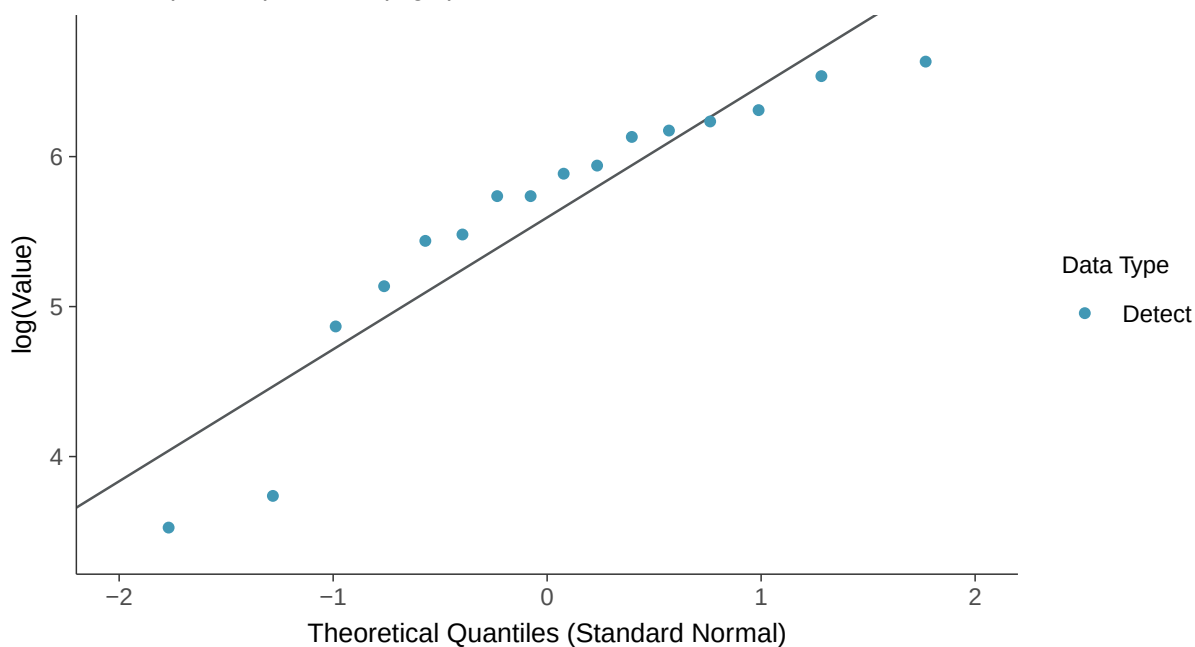
Normal Q-Q plot

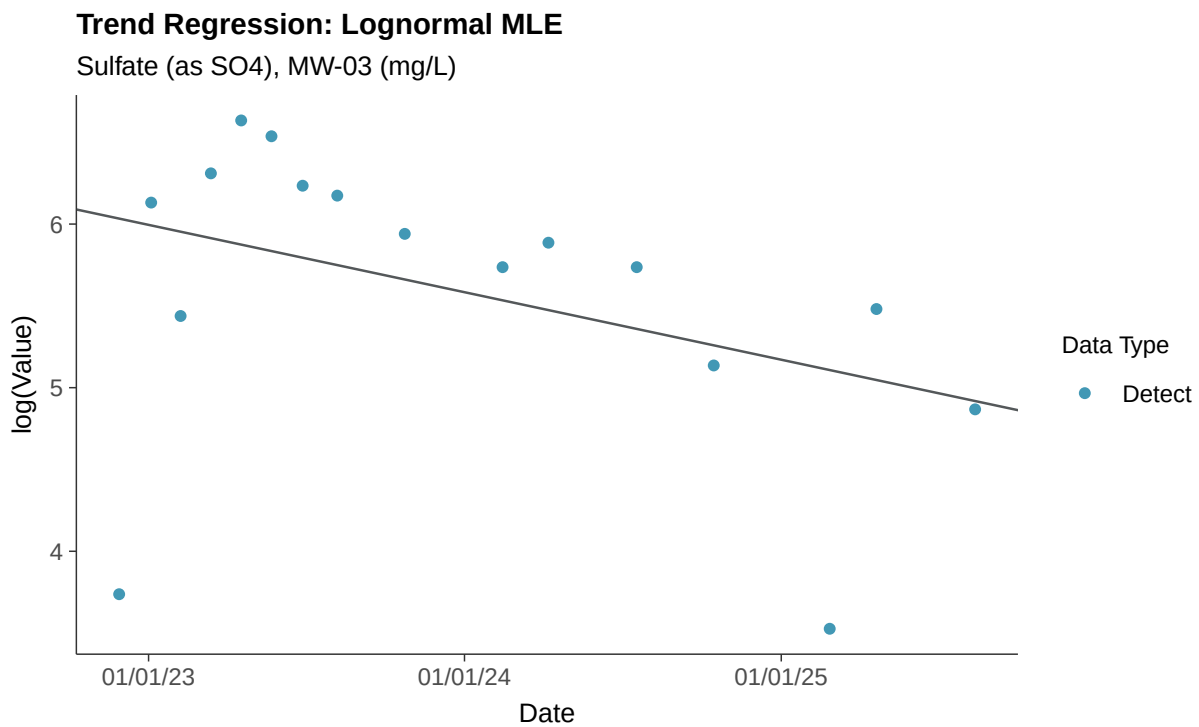
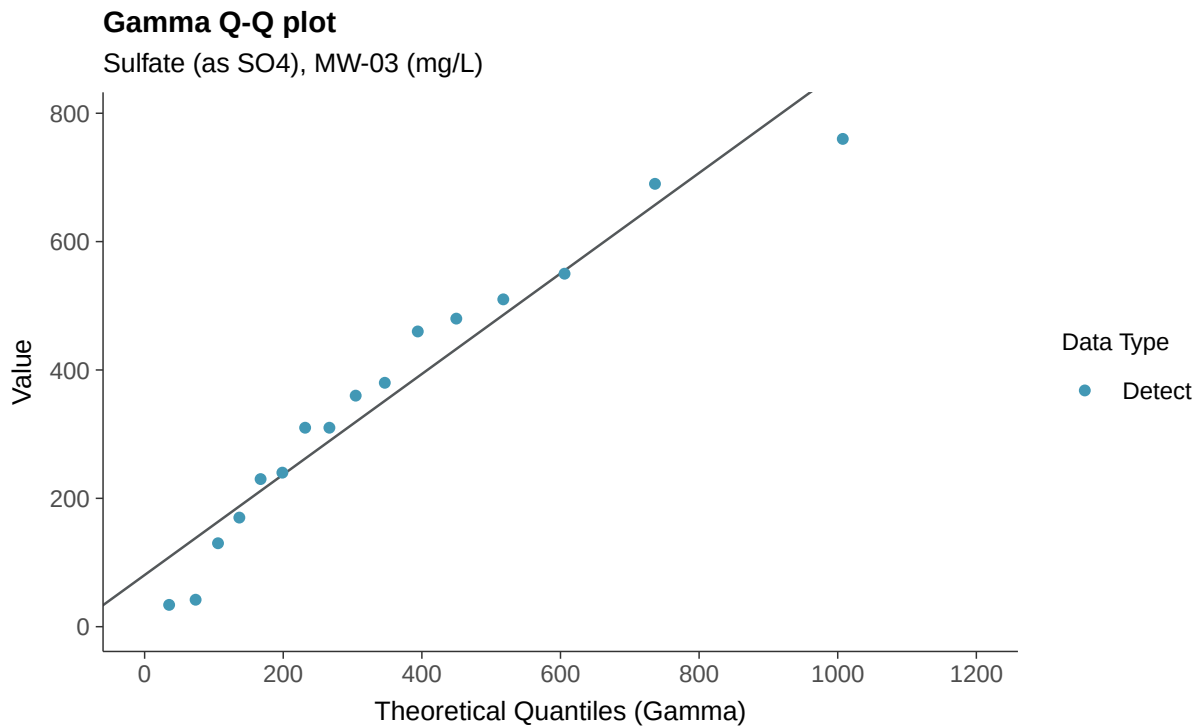
Sulfate (as SO₄), MW-03 (mg/L)



Lognormal Q-Q plot

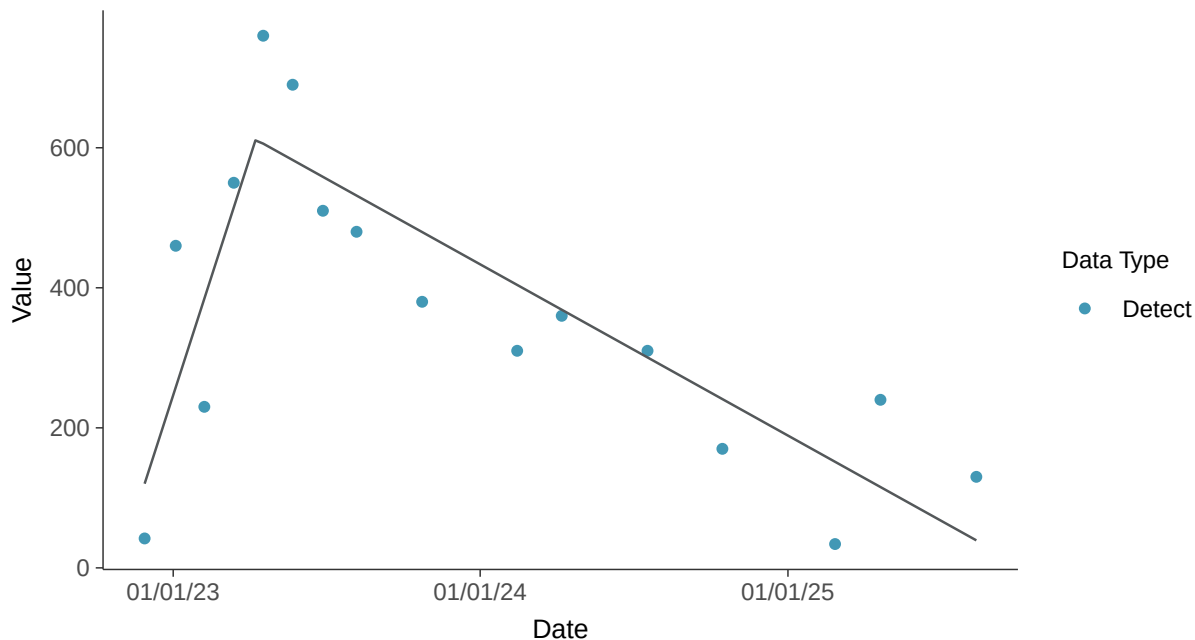
Sulfate (as SO₄), MW-03 (mg/L)





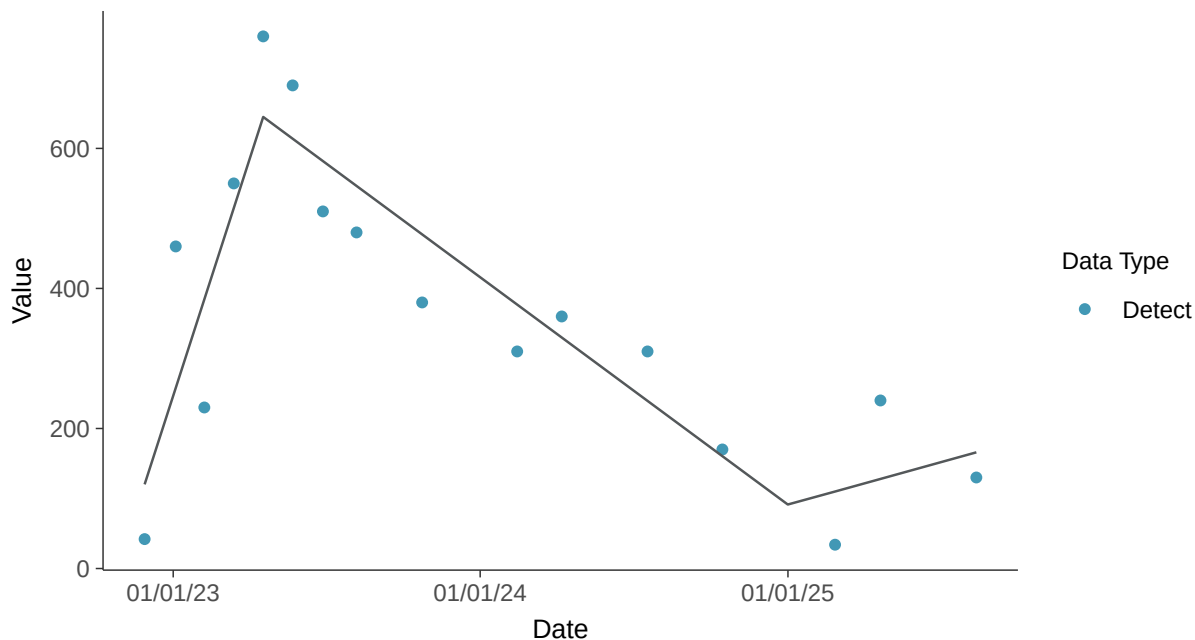
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-03 (mg/L)

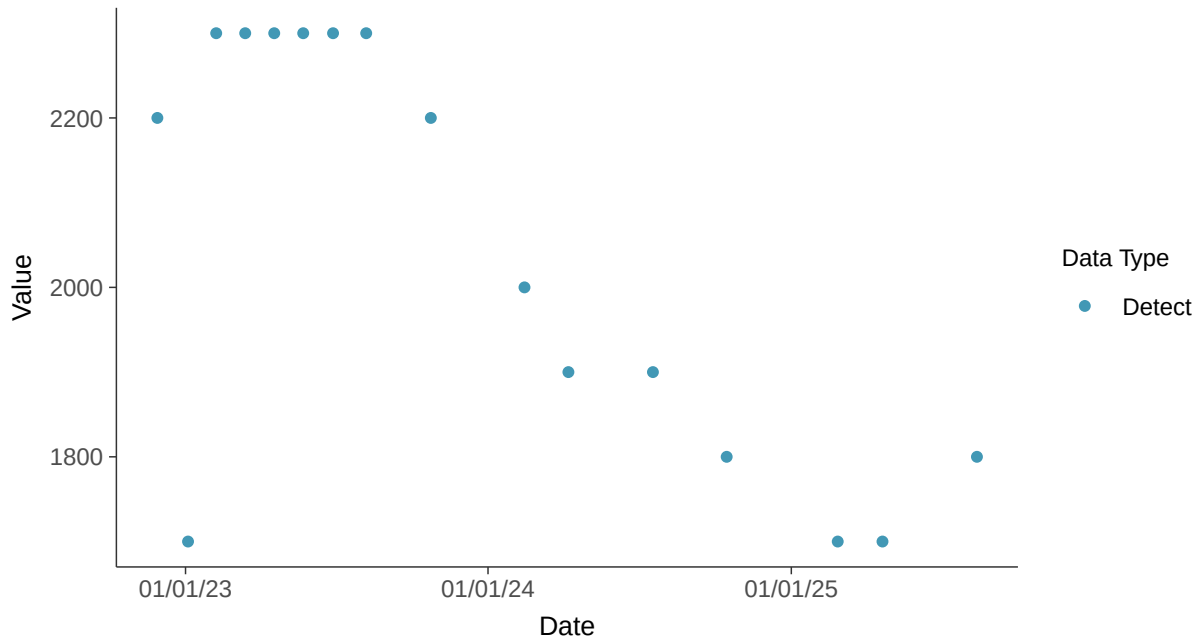


Appendix III: Total Dissolved Solids, MW-03

ID: 13_2_3_126

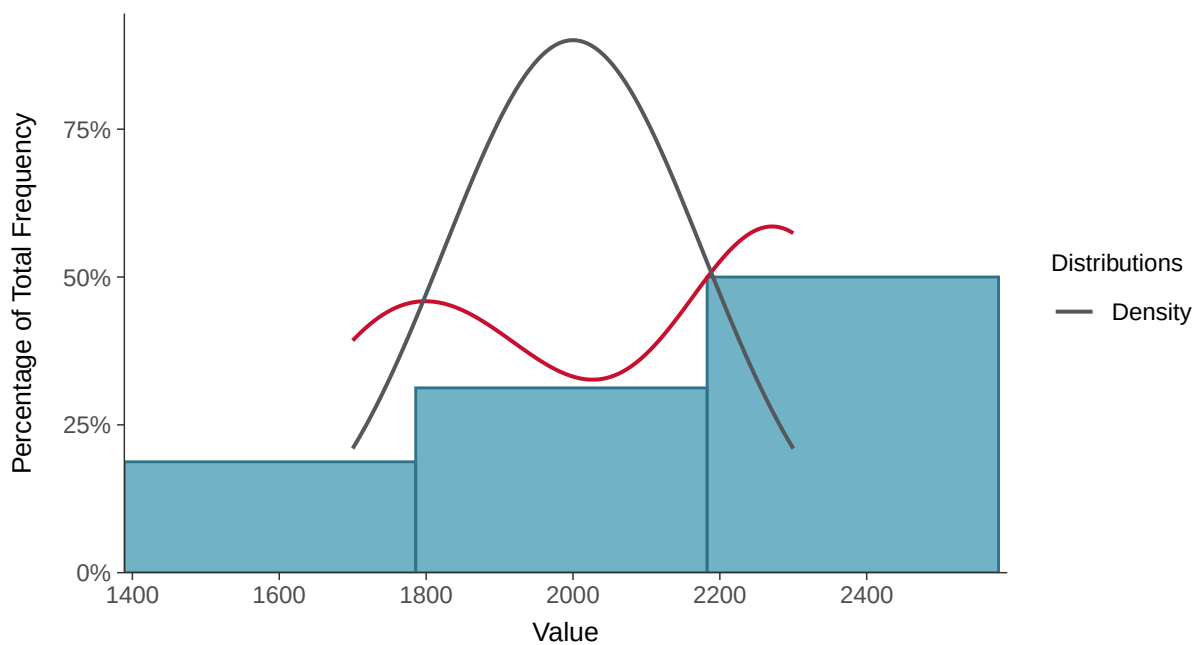
Scatter Plot

Total Dissolved Solids, MW-03 (mg/L)



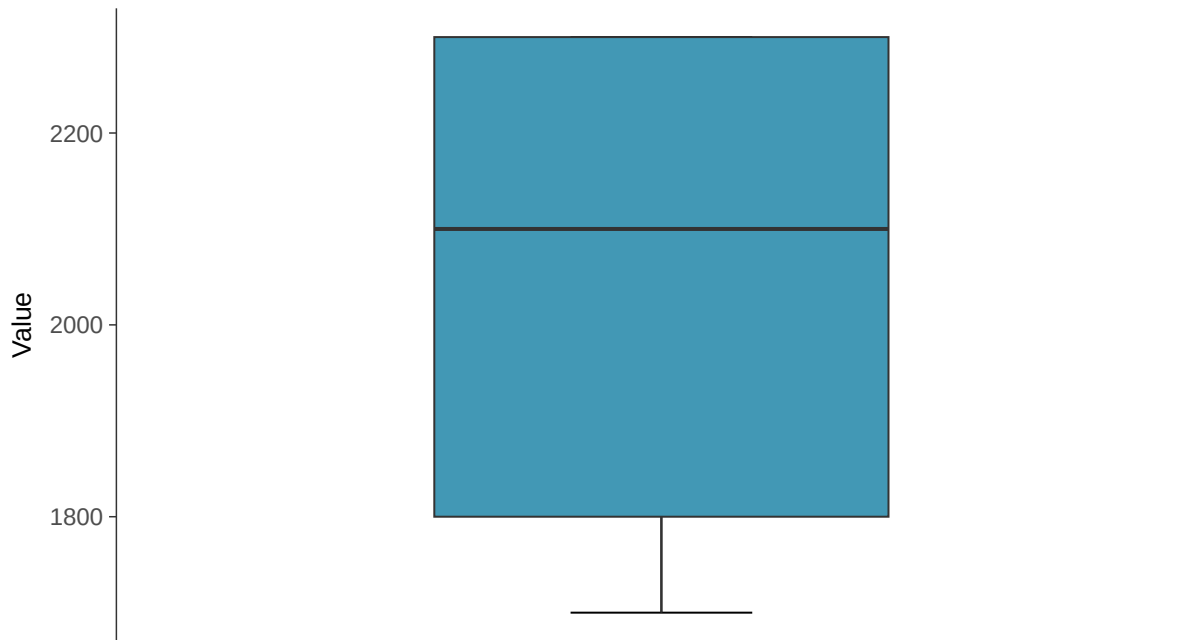
Histogram

Total Dissolved Solids, MW-03 (mg/L)



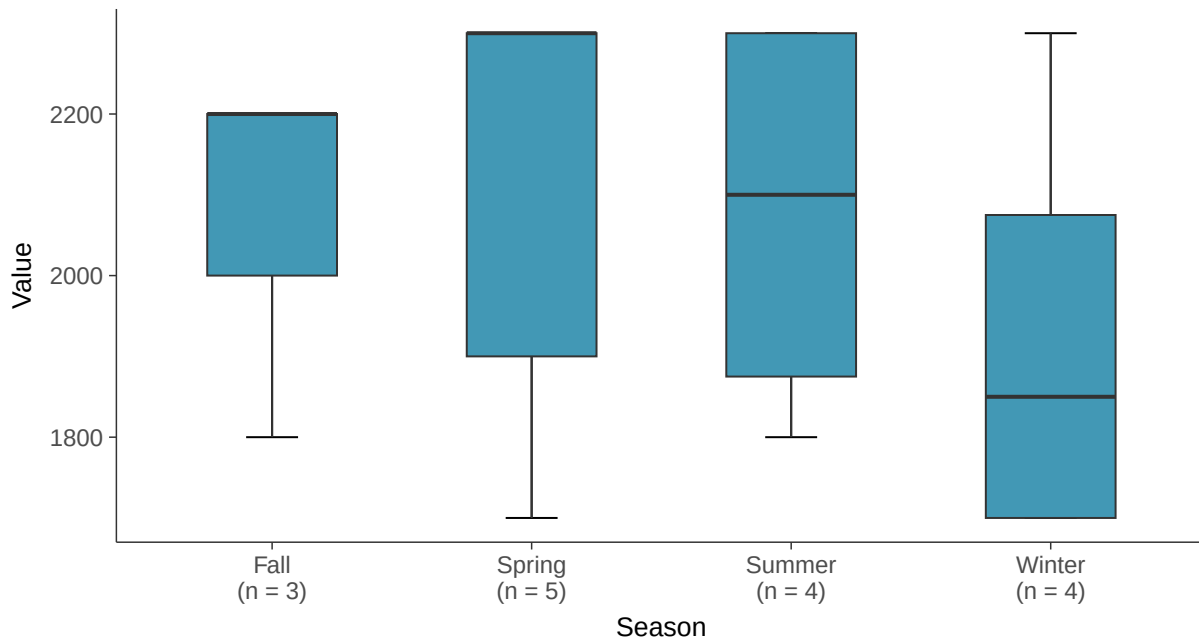
Boxplot

Total Dissolved Solids, MW-03 (mg/L)



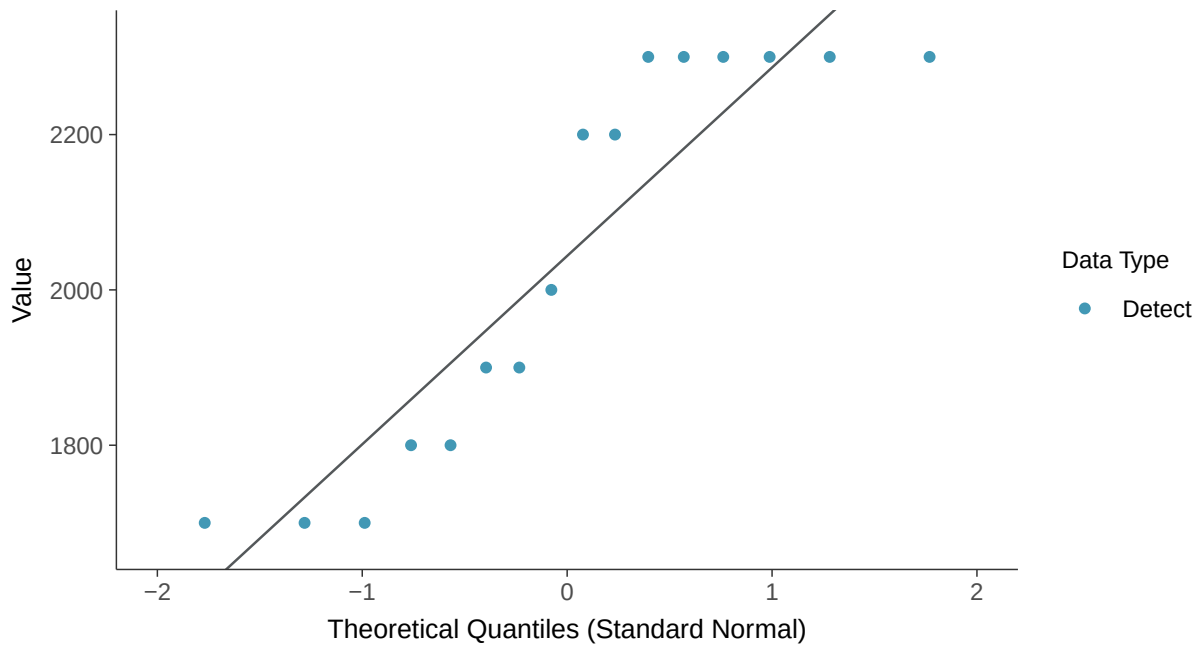
Boxplot by Season

Total Dissolved Solids, MW-03 (mg/L)



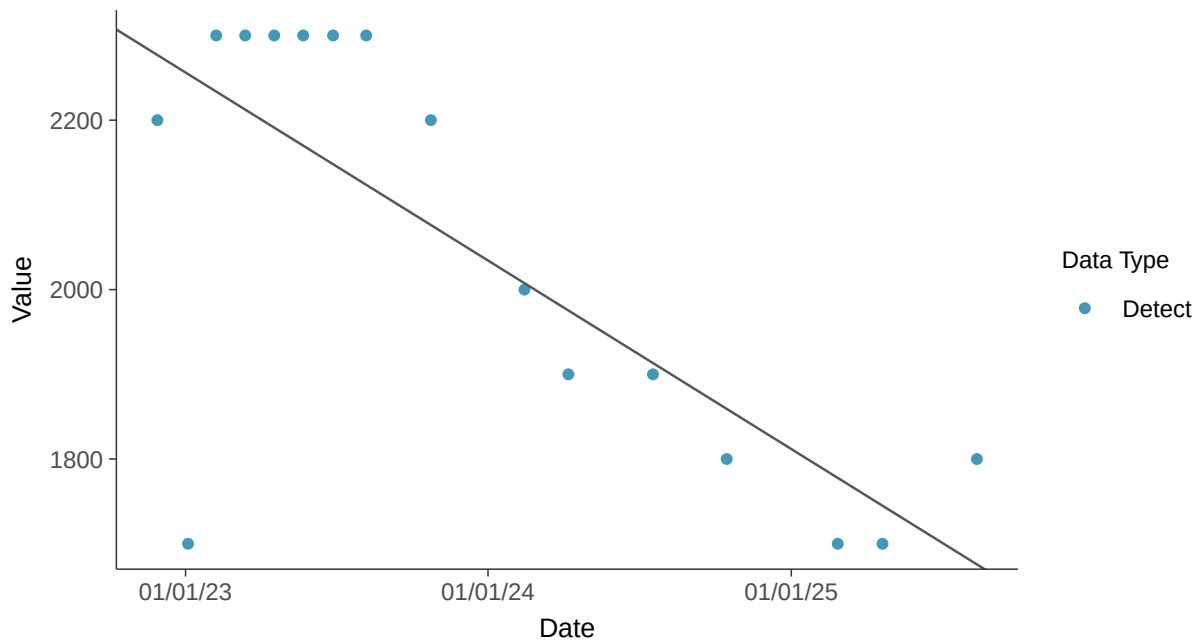
Normal Q-Q plot

Total Dissolved Solids, MW-03 (mg/L)



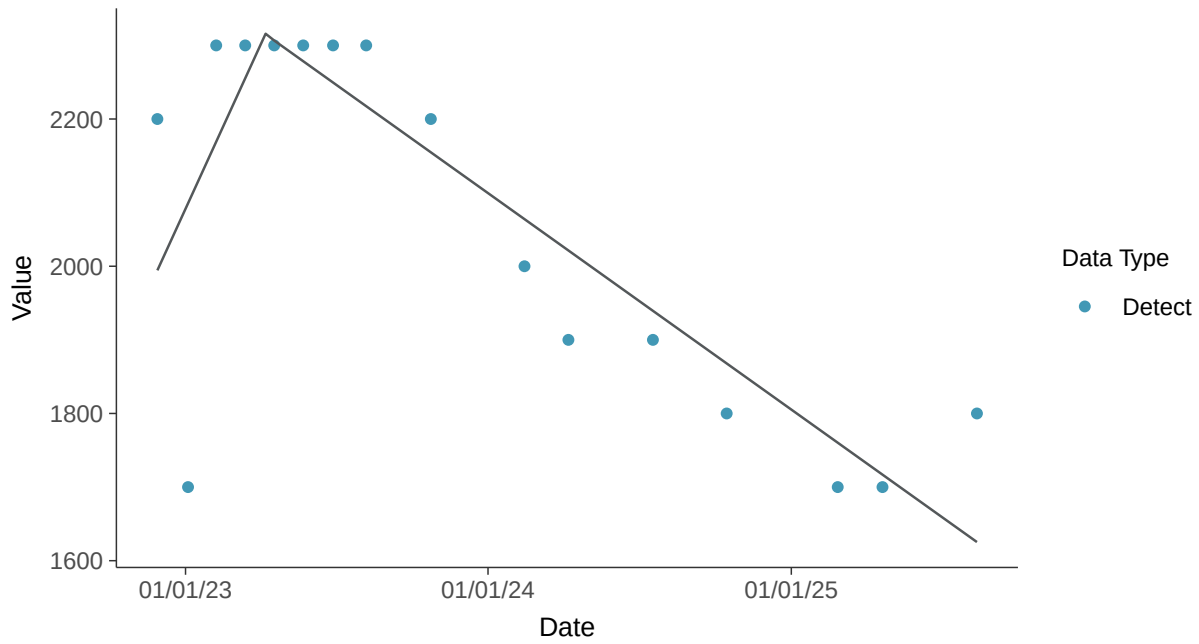
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-03 (mg/L)



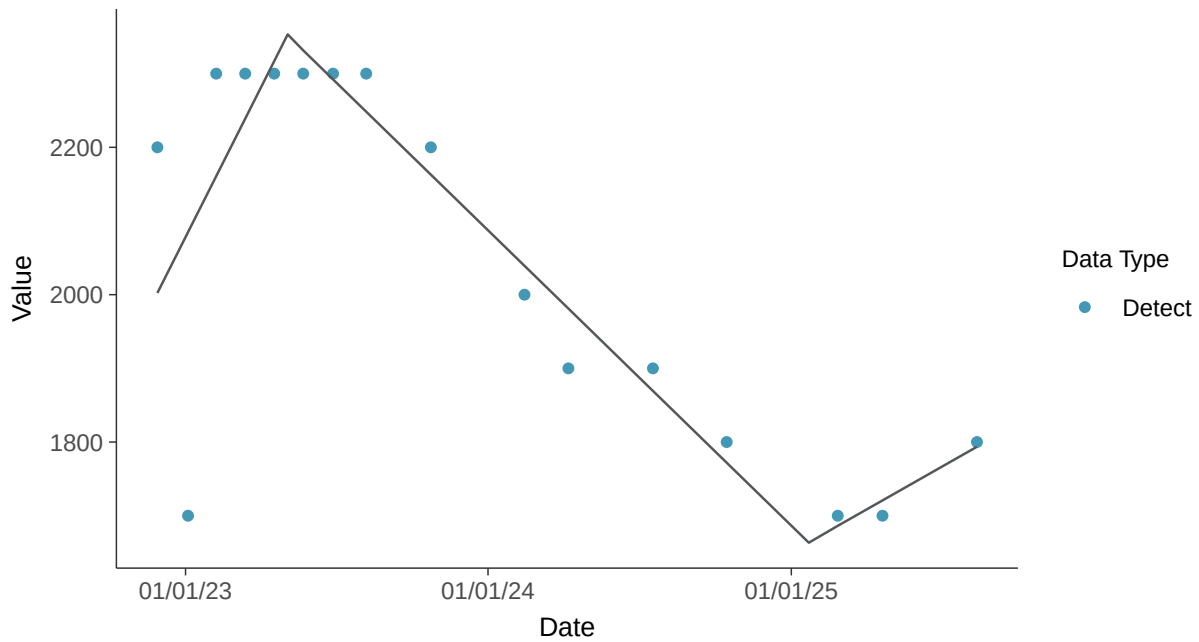
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-03 (mg/L)



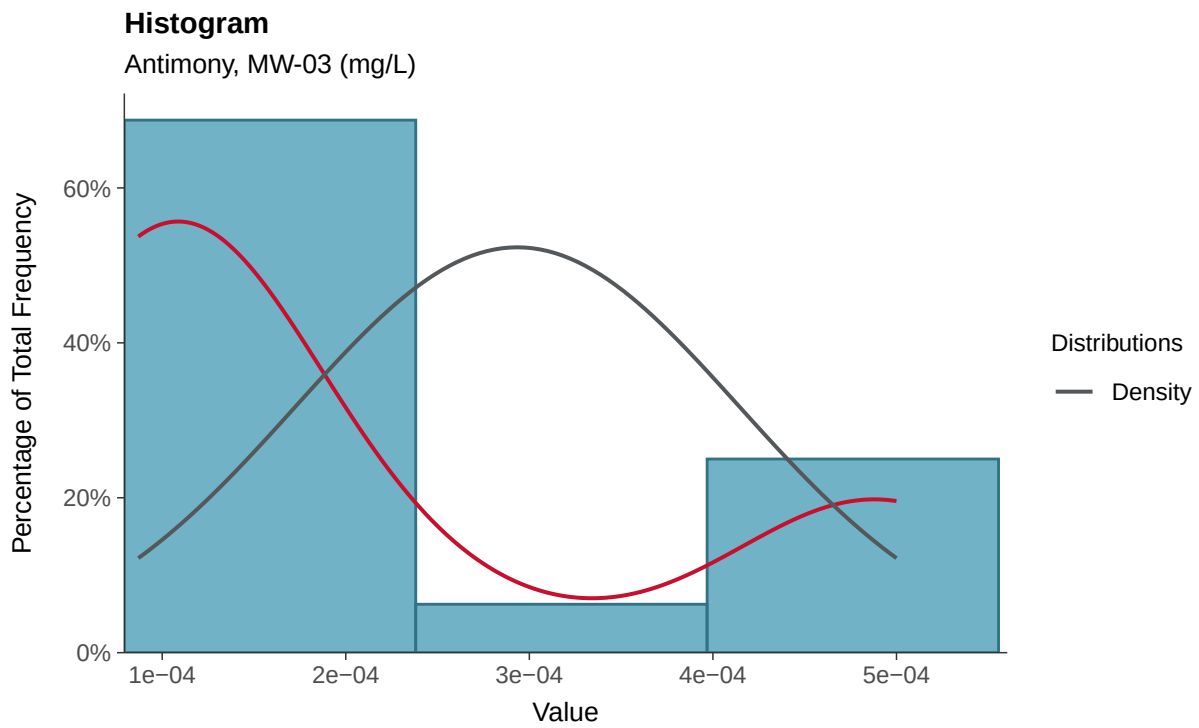
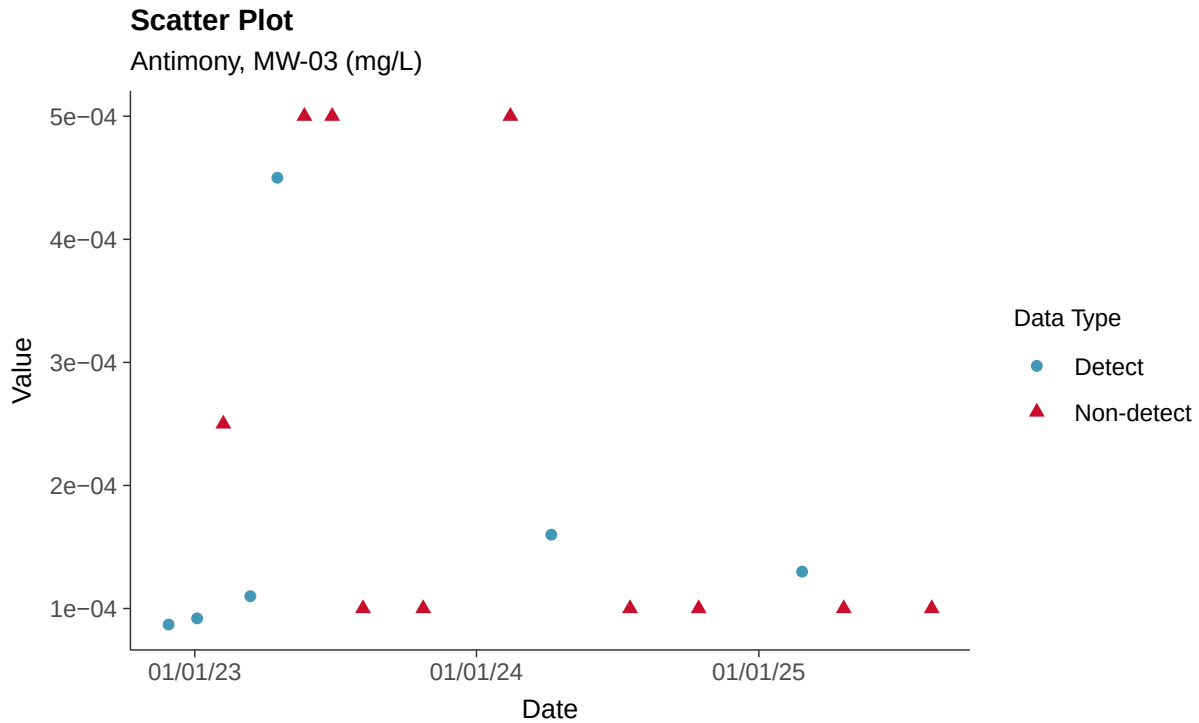
Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-03 (mg/L)



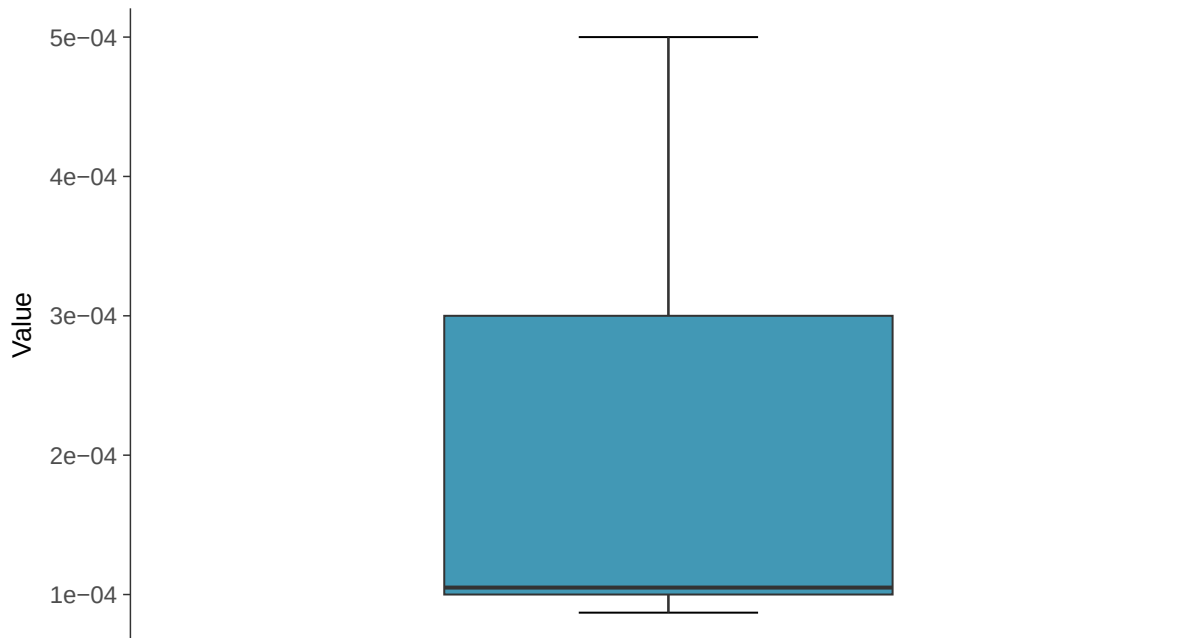
Appendix IV: Antimony, MW-03

ID: 13_2_4_101



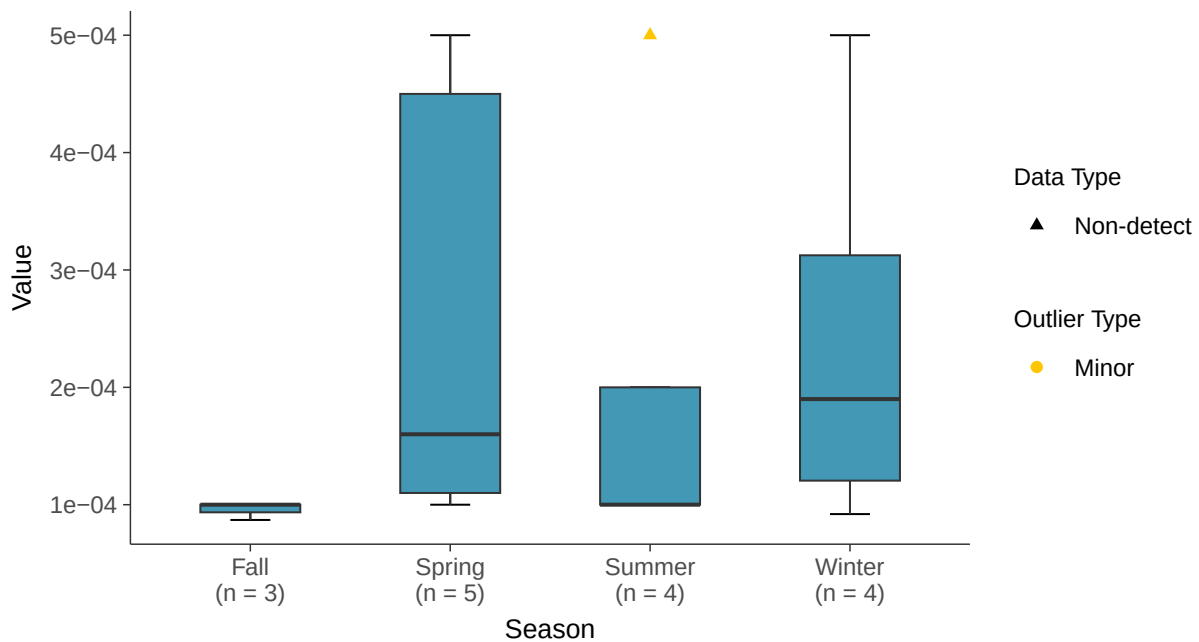
Boxplot

Antimony, MW-03 (mg/L)



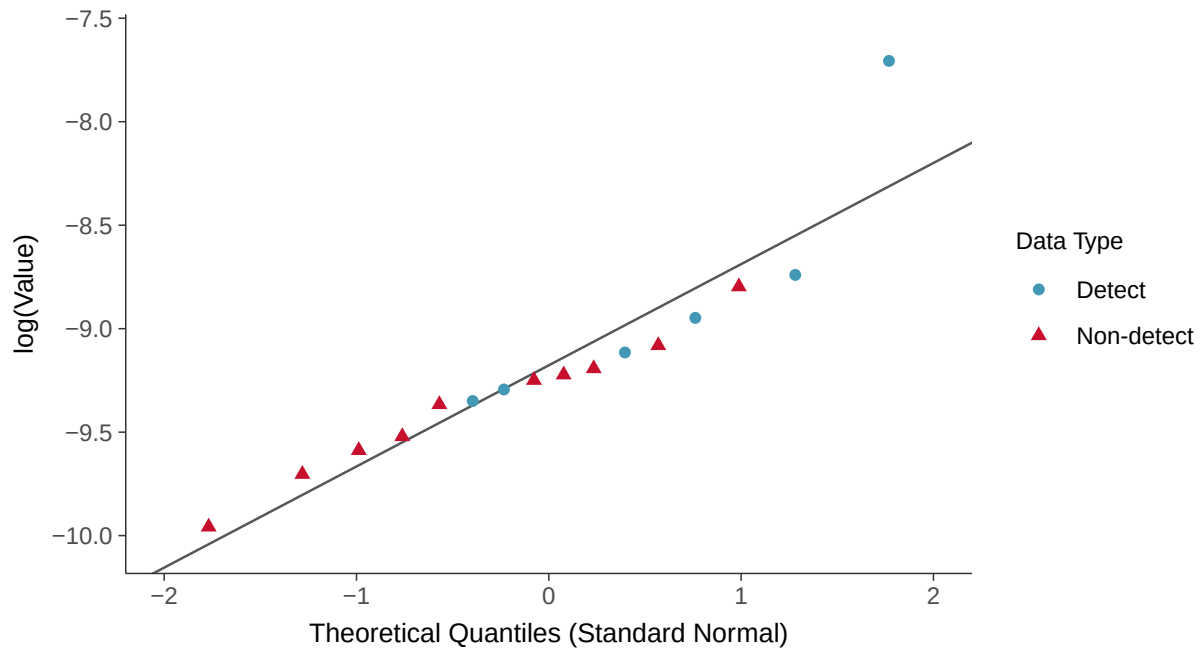
Boxplot by Season

Antimony, MW-03 (mg/L)



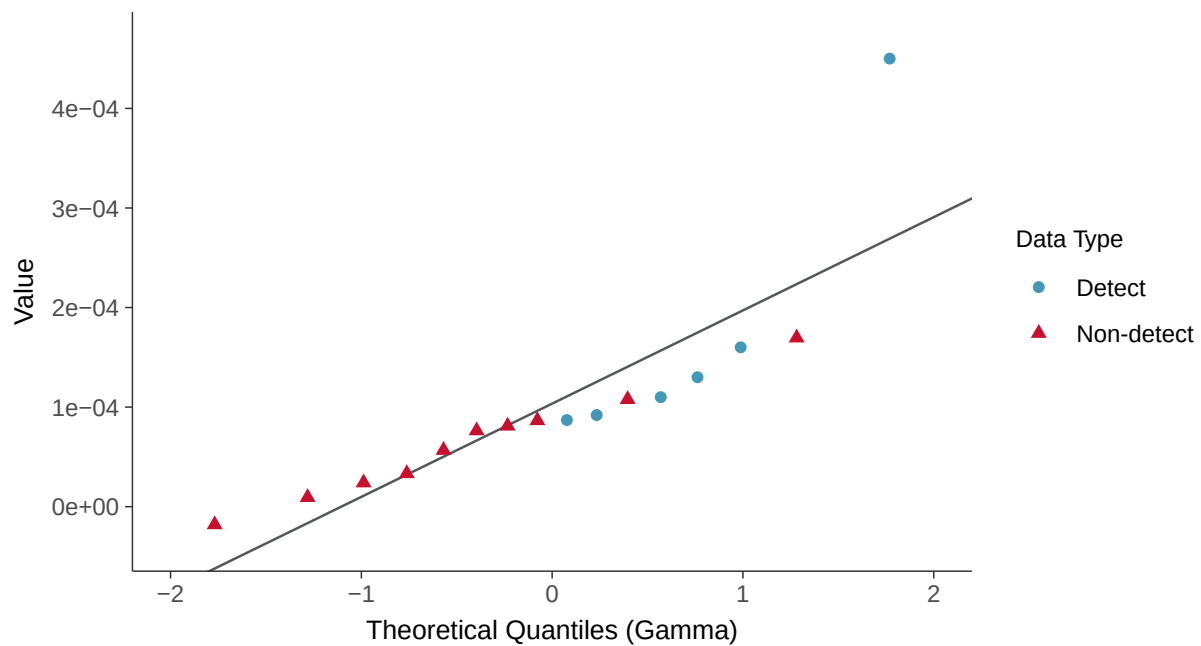
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-03 (mg/L)



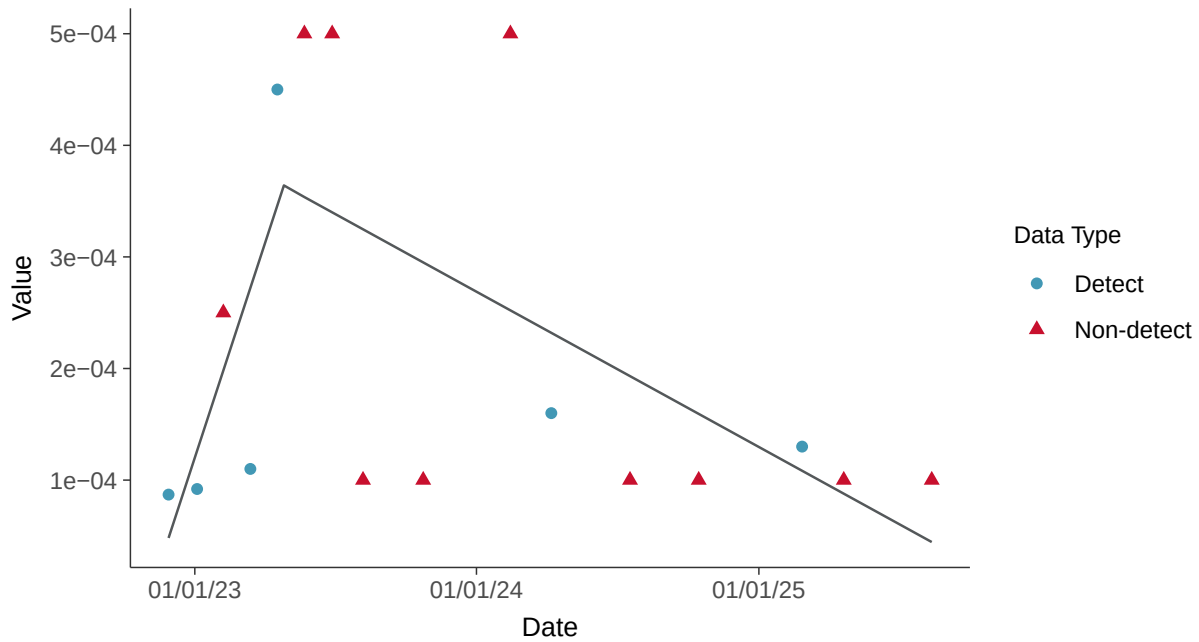
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-03 (mg/L)



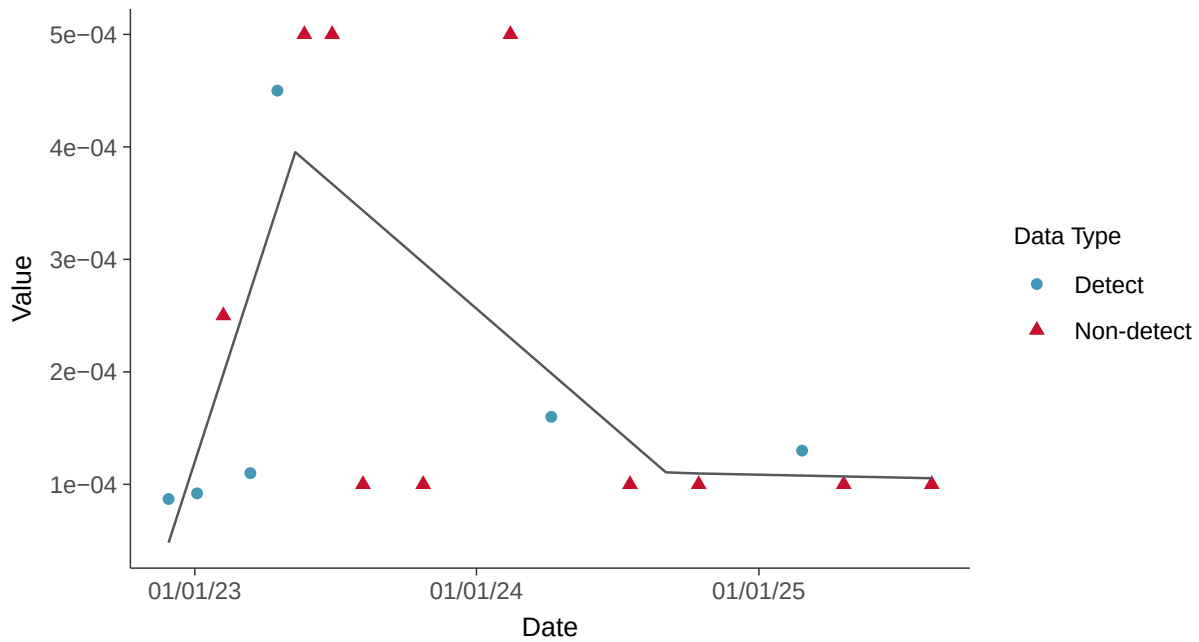
Trend Regression: Piecewise Linear-Linear

Antimony, MW-03 (mg/L)



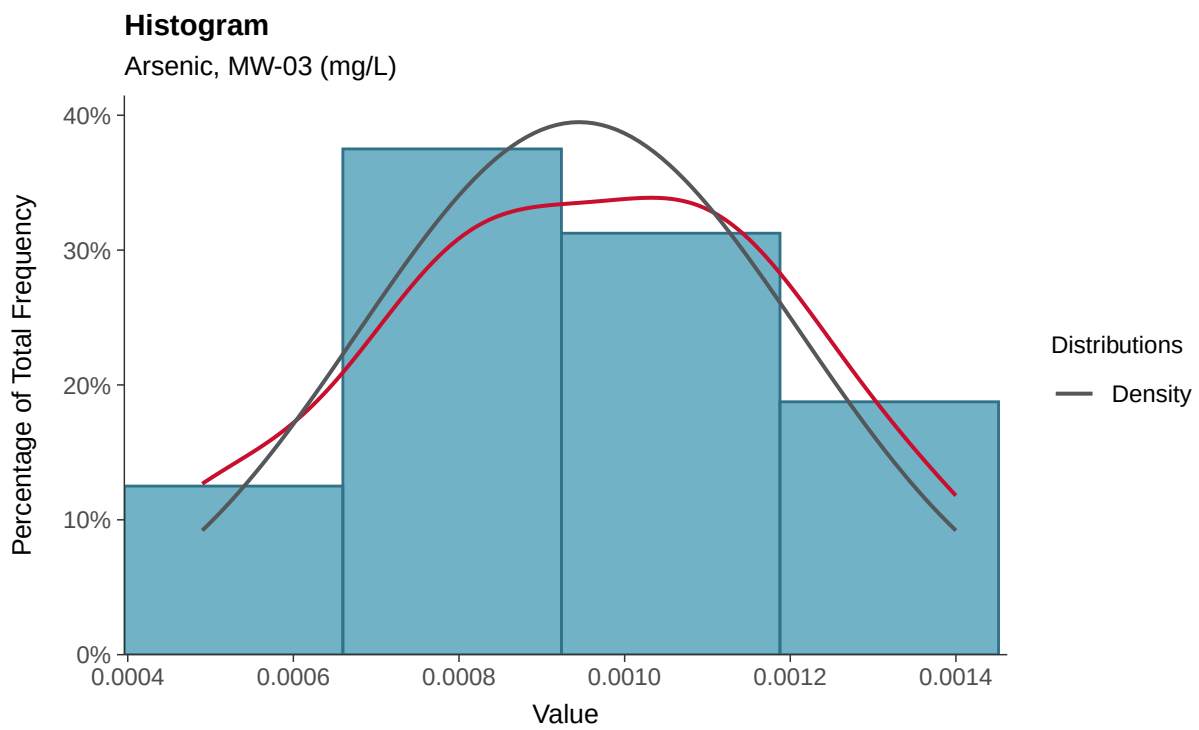
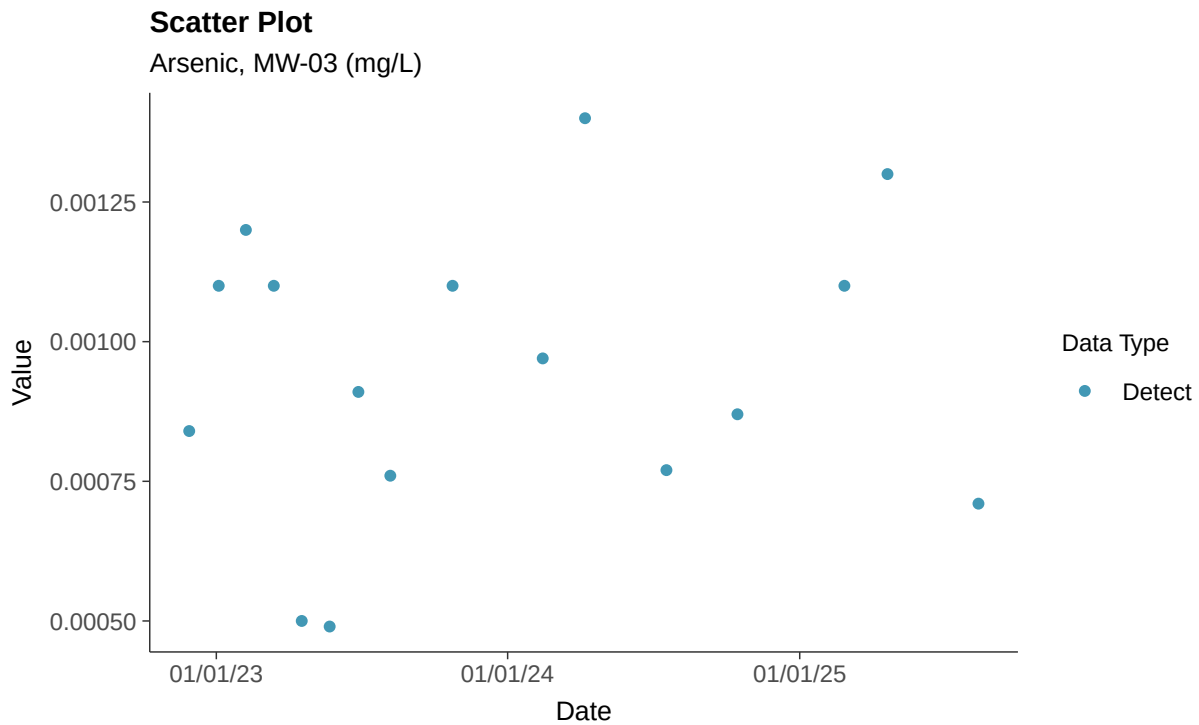
Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-03 (mg/L)



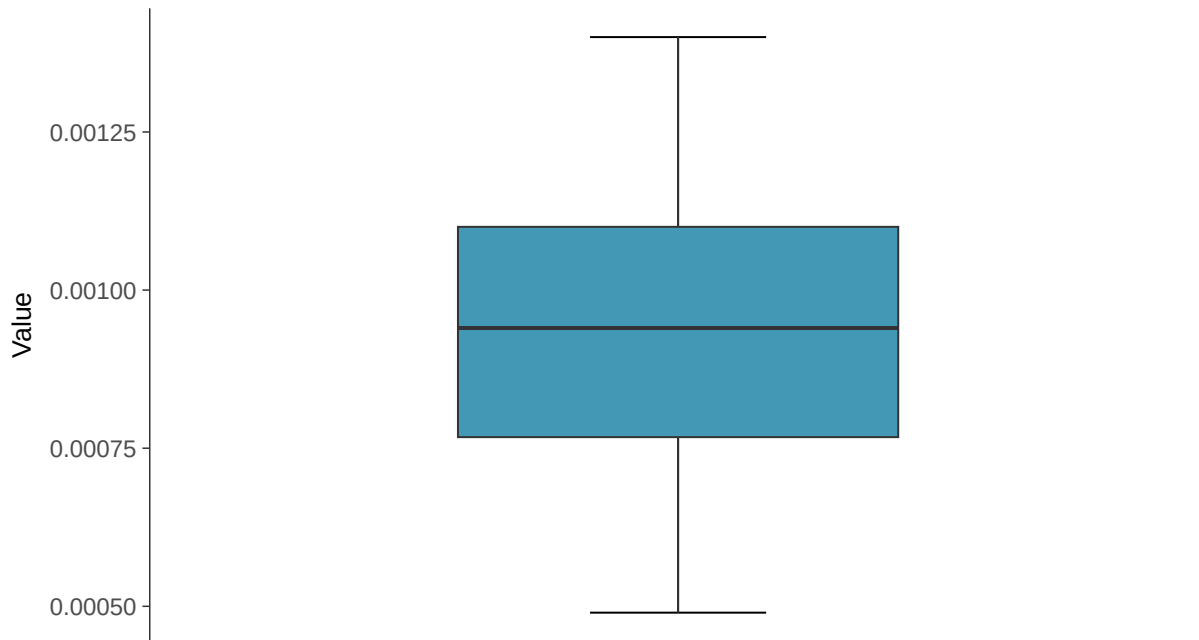
Appendix IV: Arsenic, MW-03

ID: 13_2_4_102



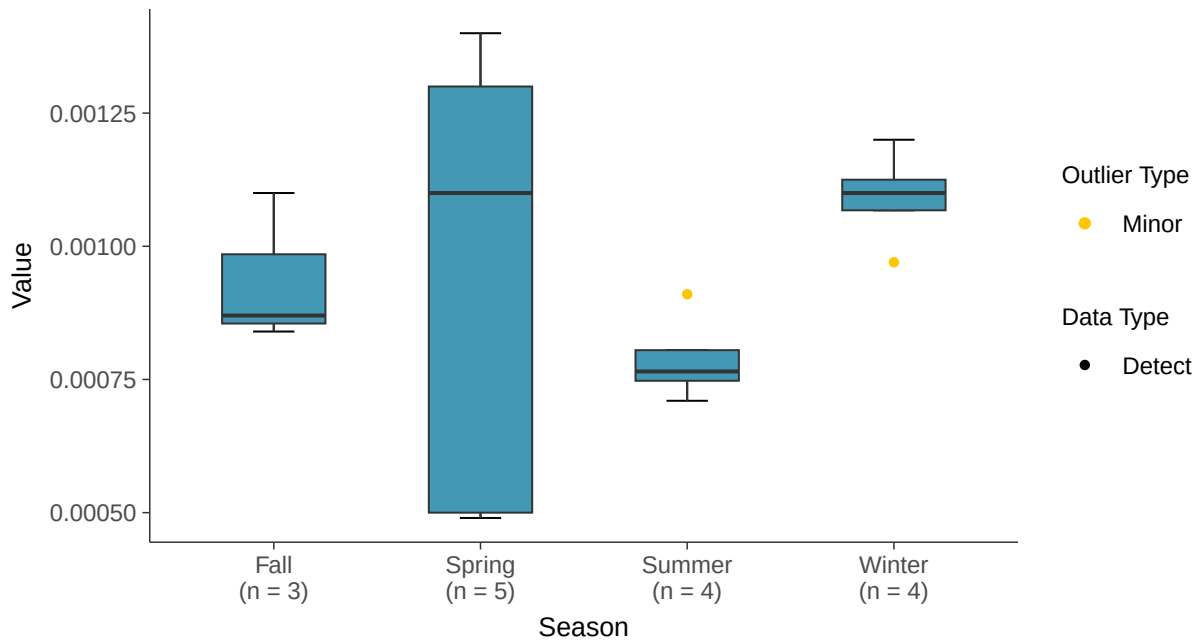
Boxplot

Arsenic, MW-03 (mg/L)



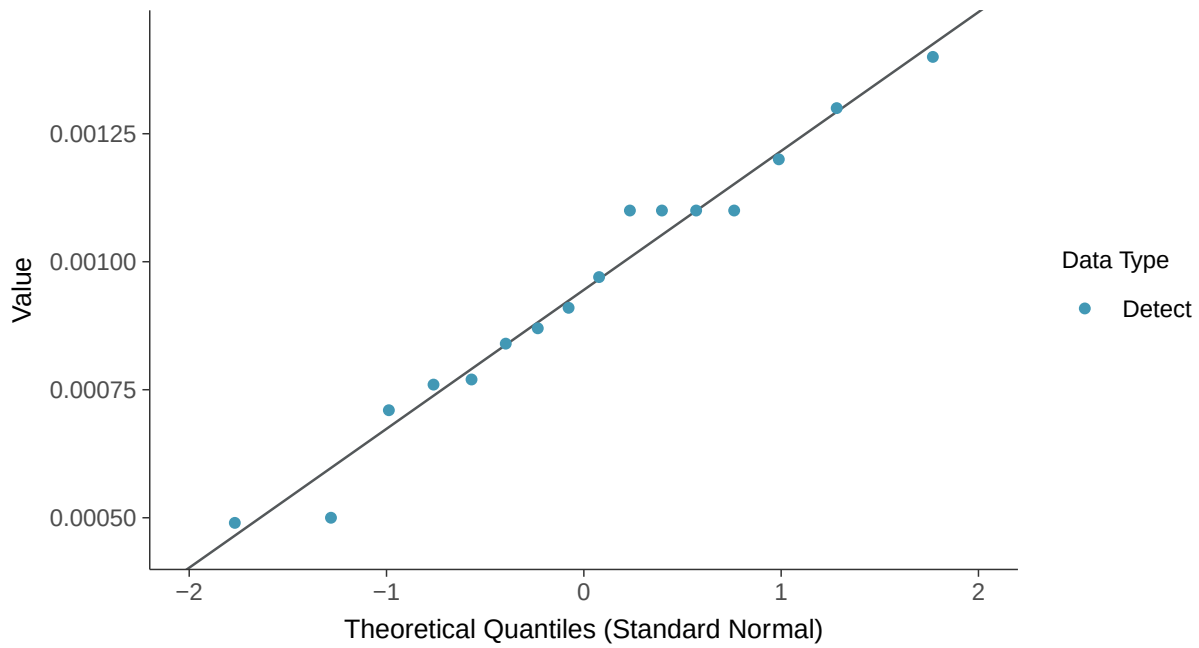
Boxplot by Season

Arsenic, MW-03 (mg/L)



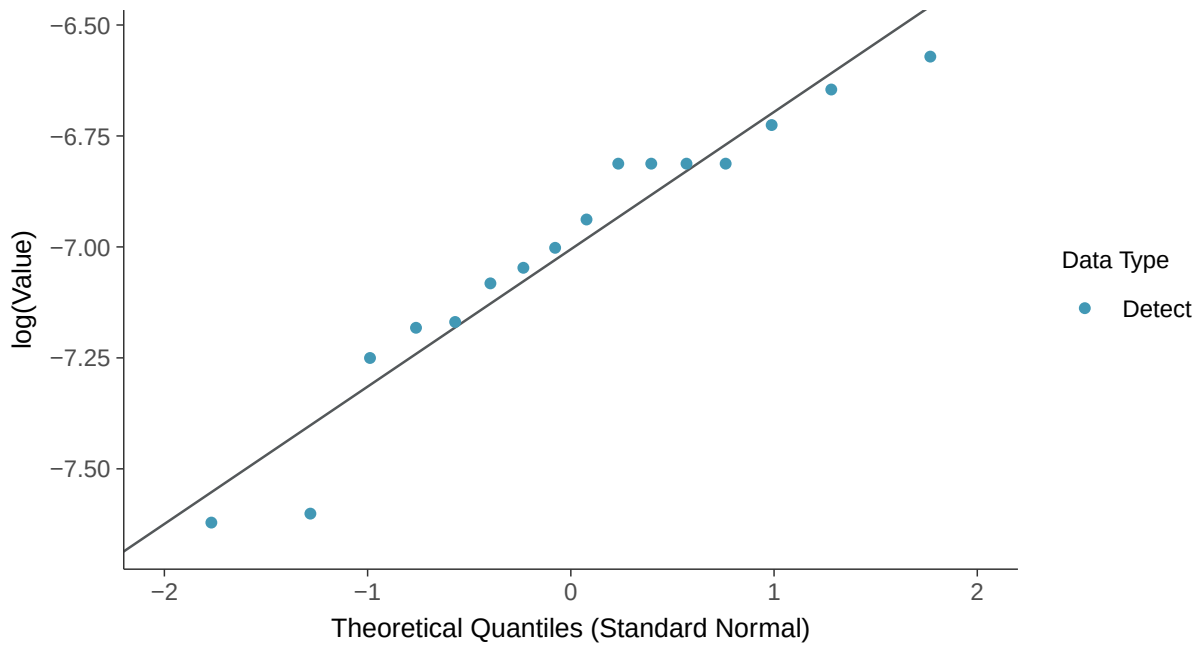
Normal Q-Q plot

Arsenic, MW-03 (mg/L)



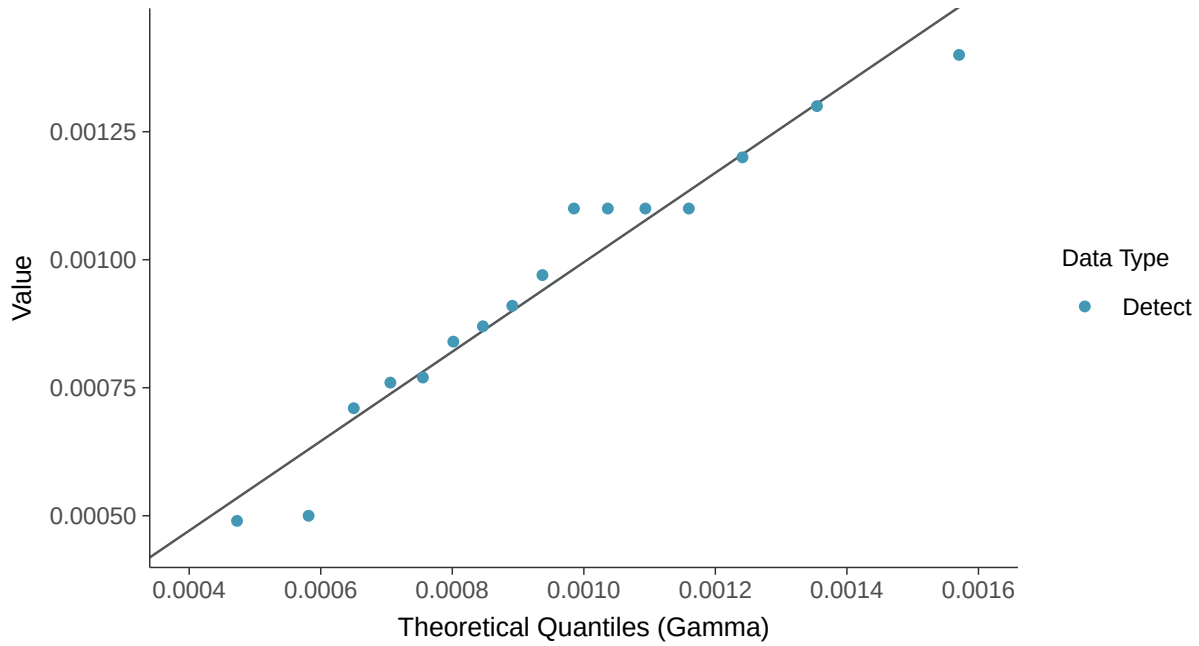
Lognormal Q-Q plot

Arsenic, MW-03 (mg/L)



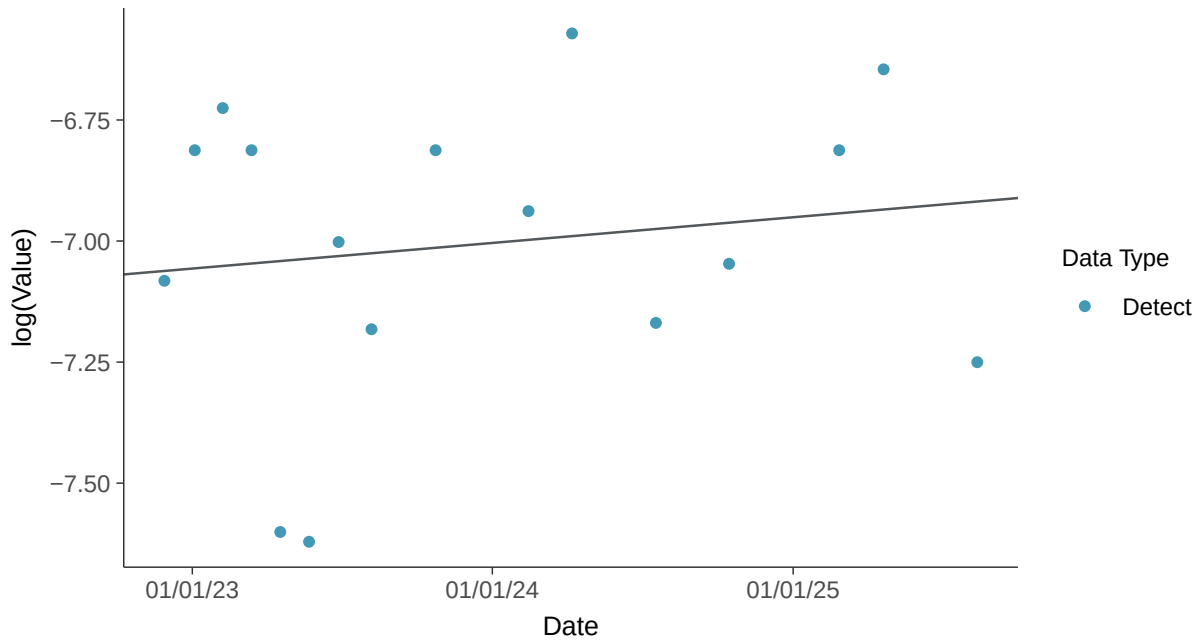
Gamma Q-Q plot

Arsenic, MW-03 (mg/L)



Trend Regression: Lognormal MLE

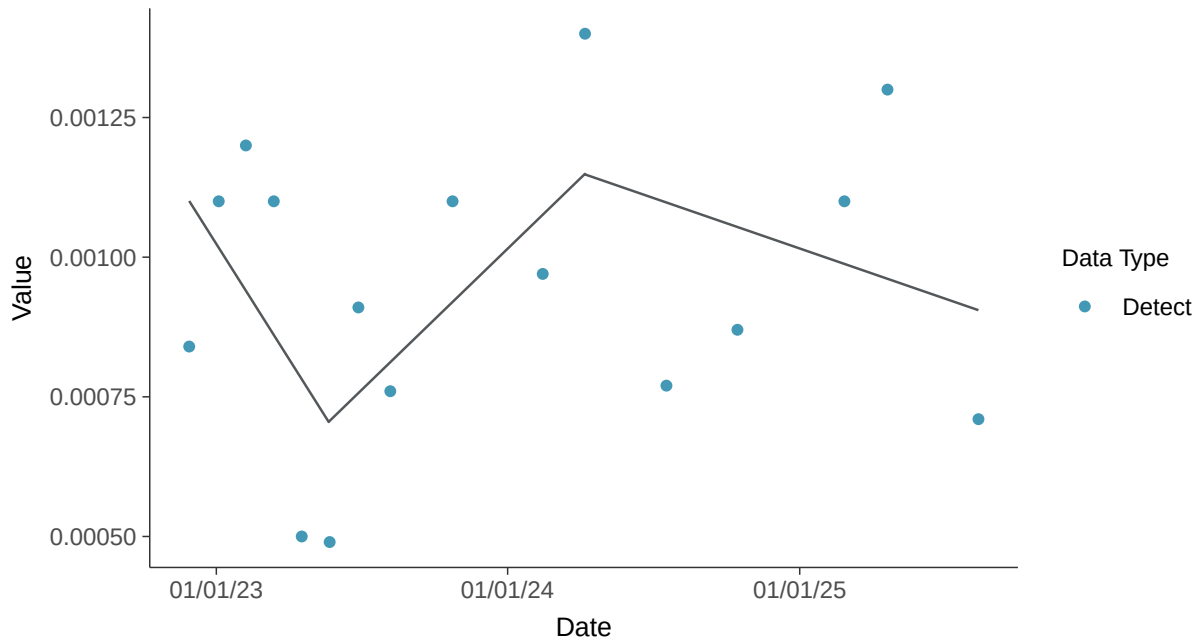
Arsenic, MW-03 (mg/L)





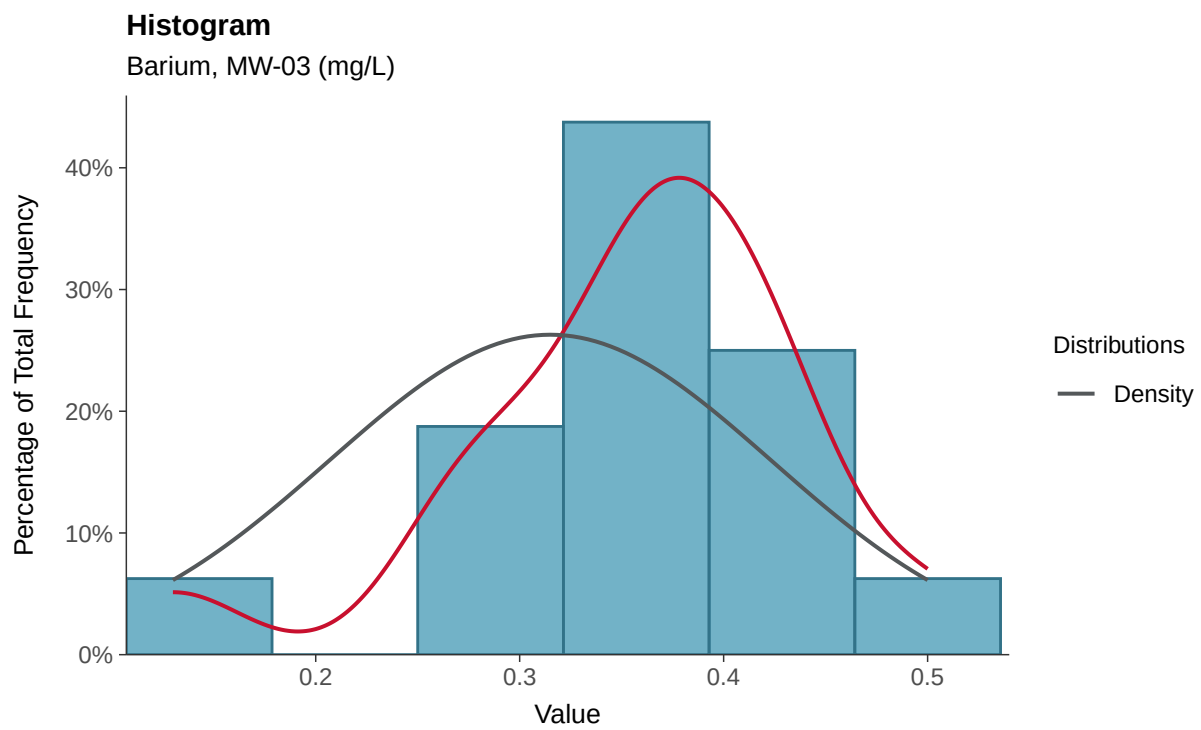
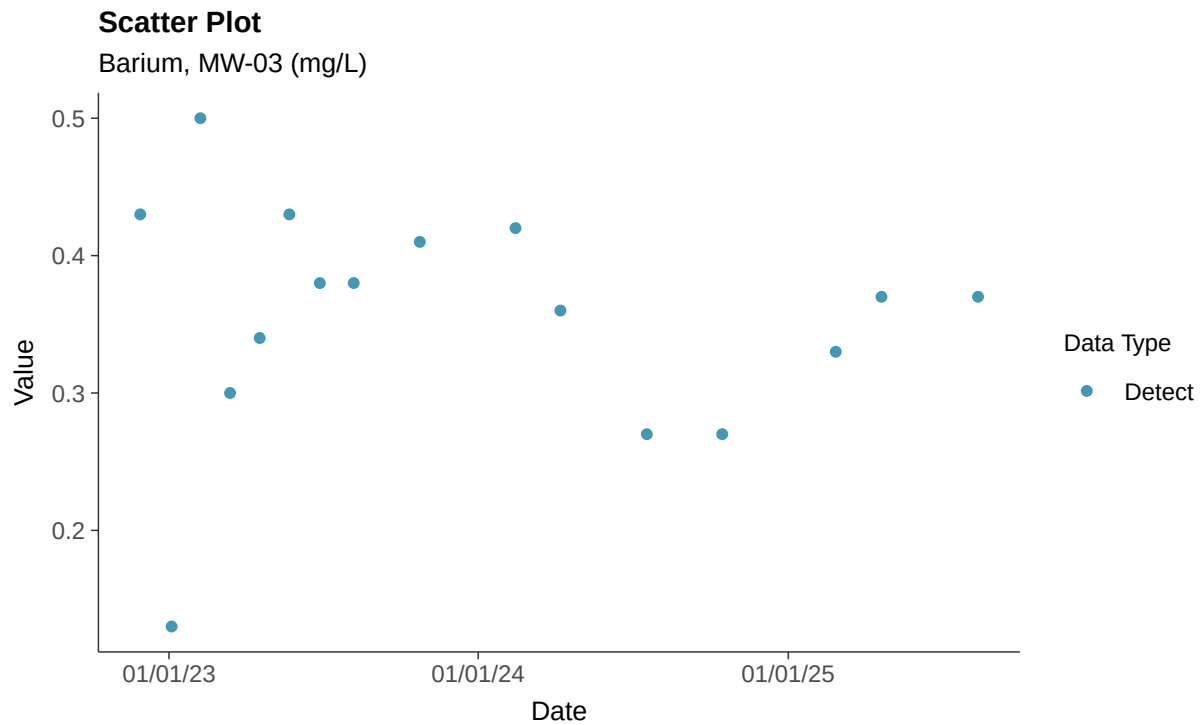
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-03 (mg/L)



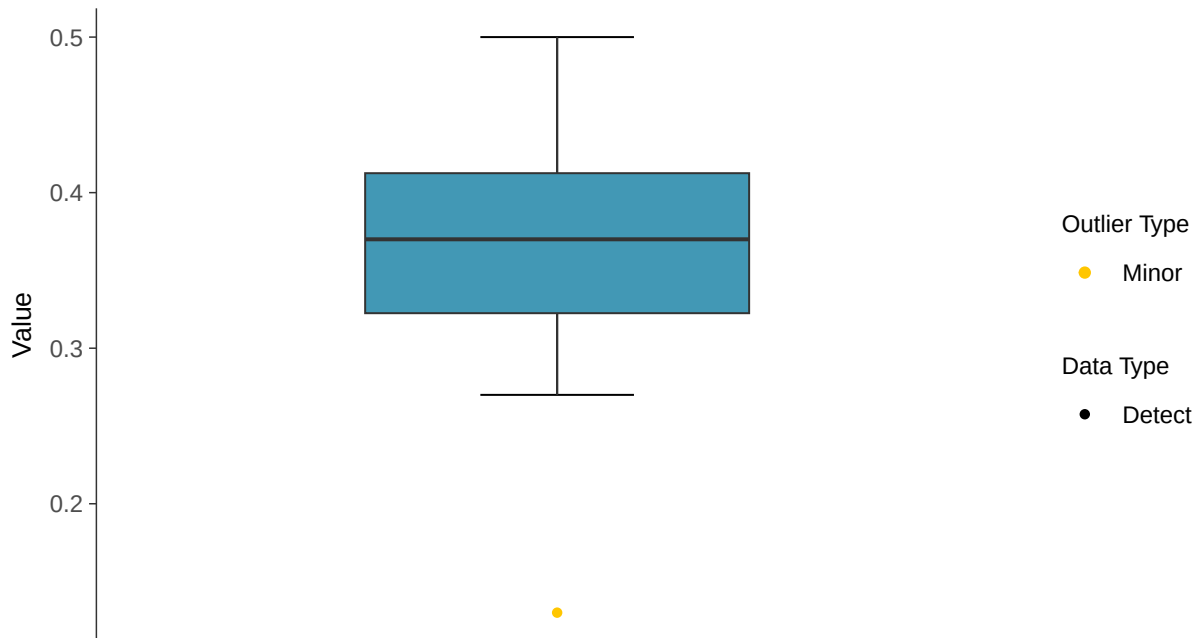
Appendix IV: Barium, MW-03

ID: 13_2_4_103



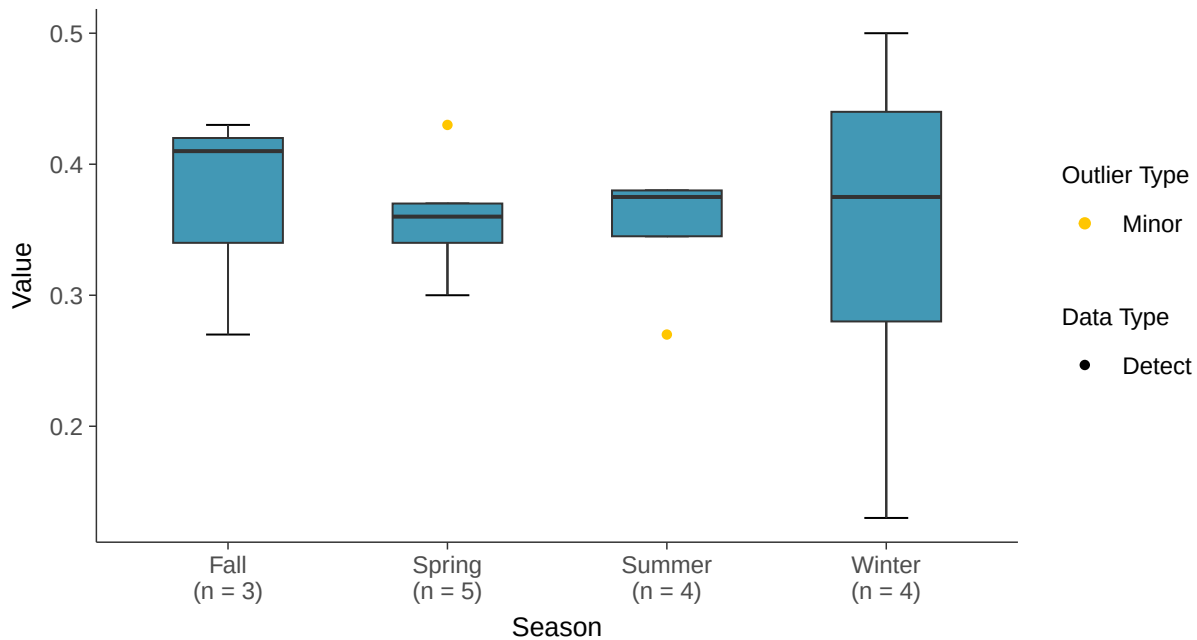
Boxplot

Barium, MW-03 (mg/L)

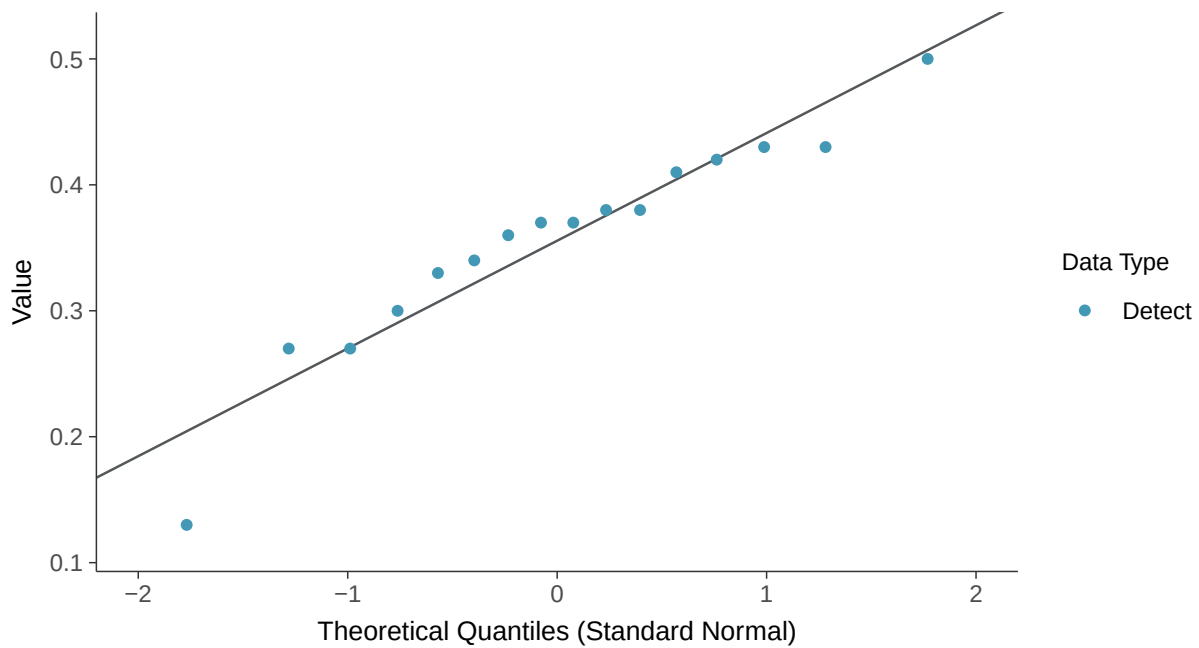


Boxplot by Season

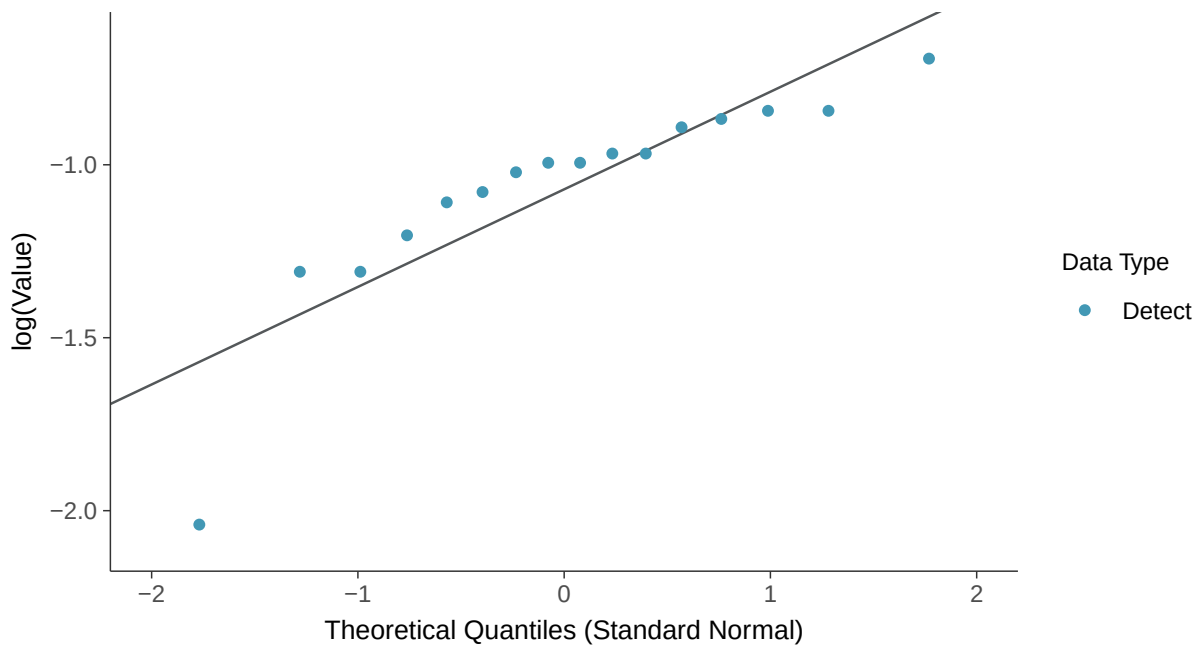
Barium, MW-03 (mg/L)



Normal Q-Q plot
Barium, MW-03 (mg/L)

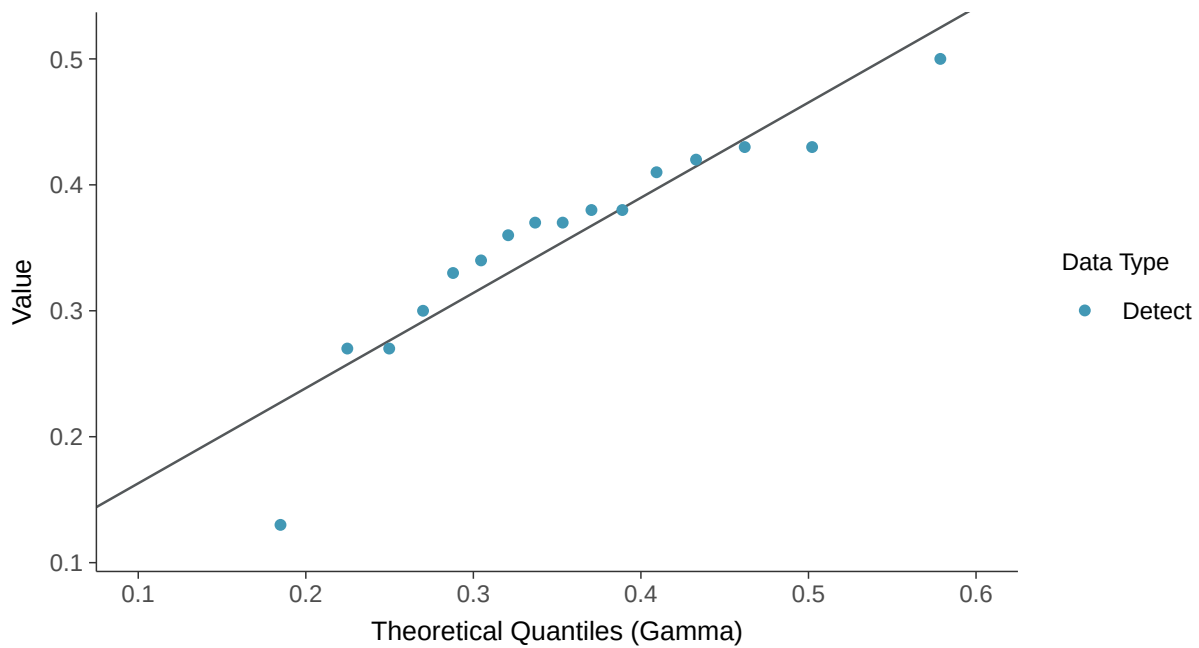


Lognormal Q-Q plot
Barium, MW-03 (mg/L)



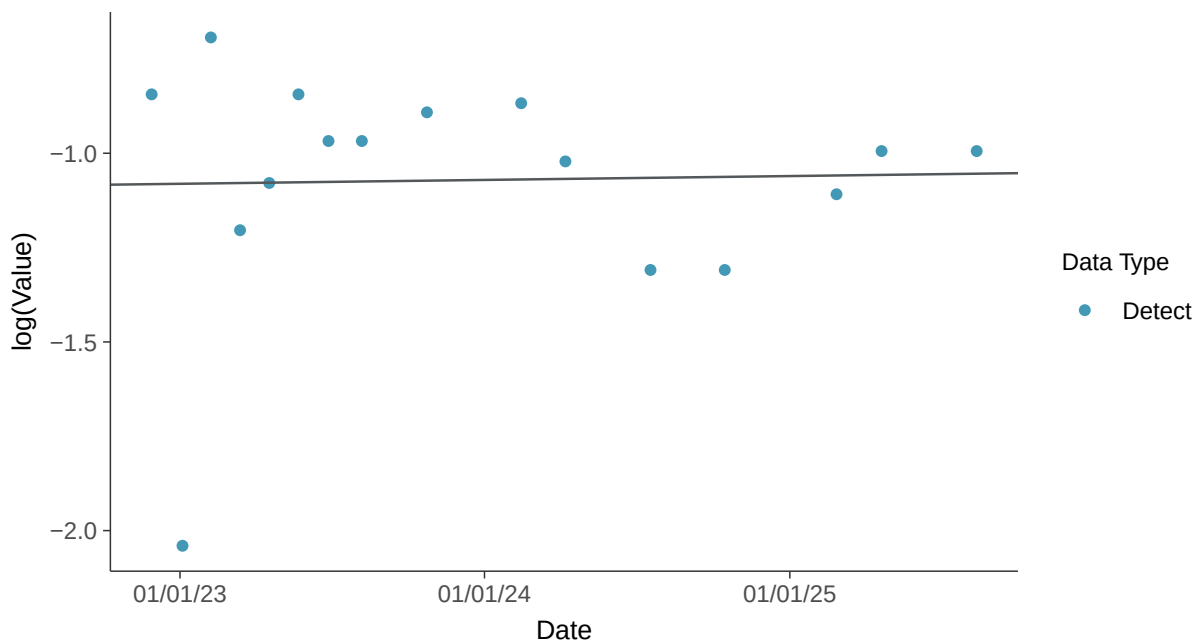
Gamma Q-Q plot

Barium, MW-03 (mg/L)



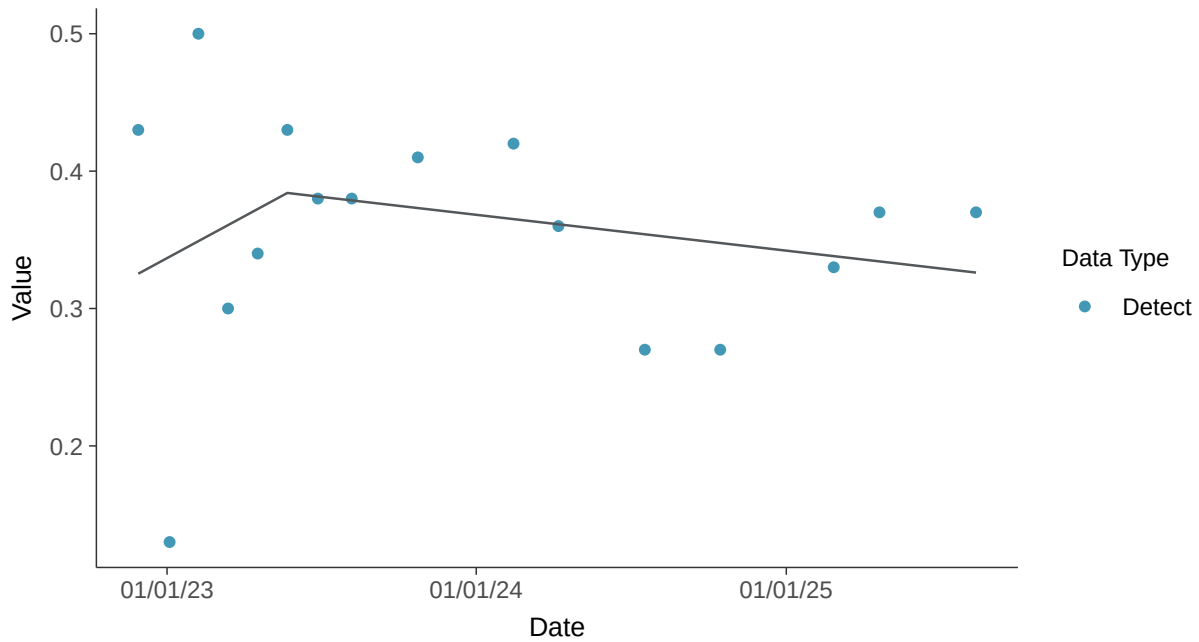
Trend Regression: Lognormal MLE

Barium, MW-03 (mg/L)



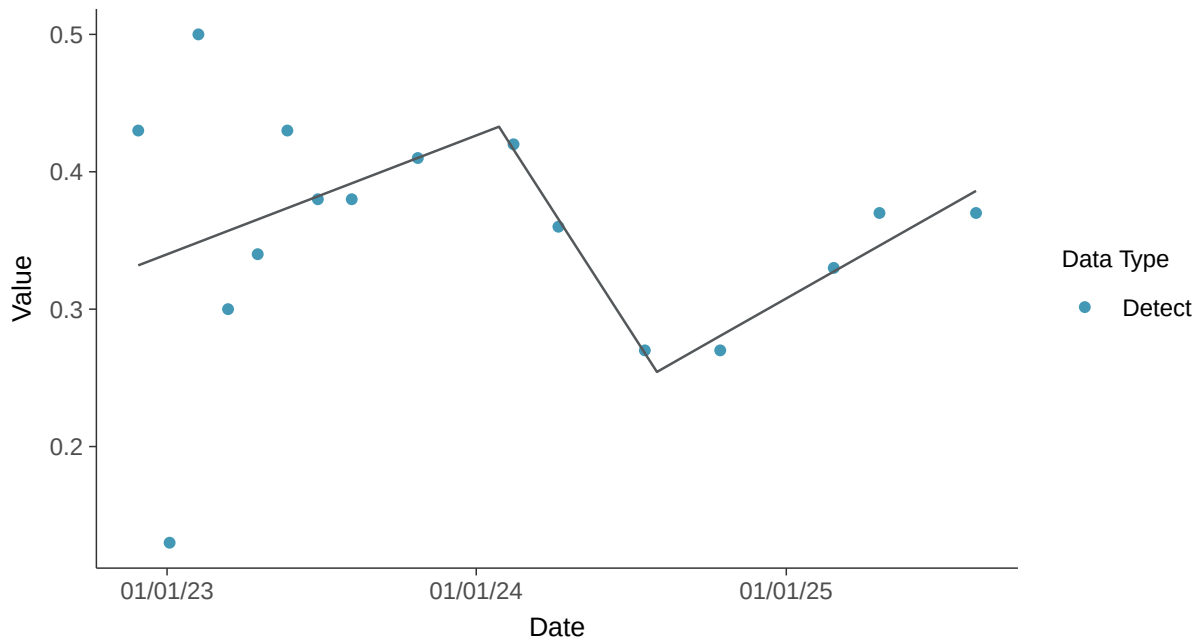
Trend Regression: Piecewise Linear-Linear

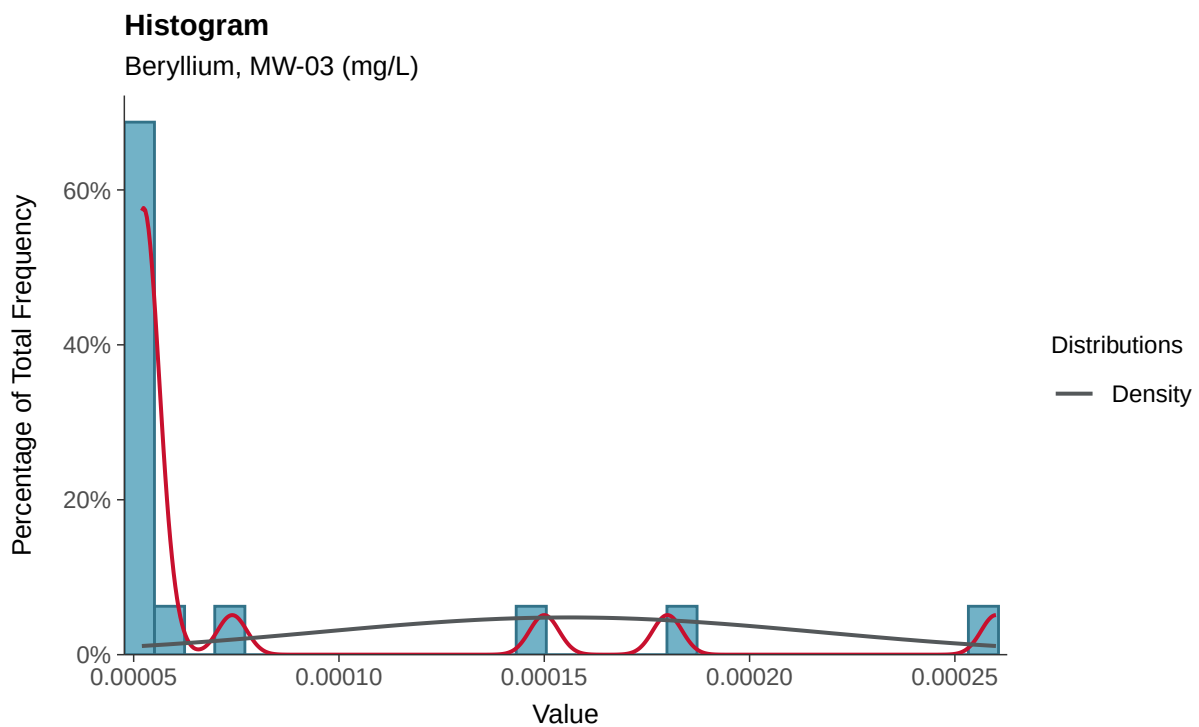
Barium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

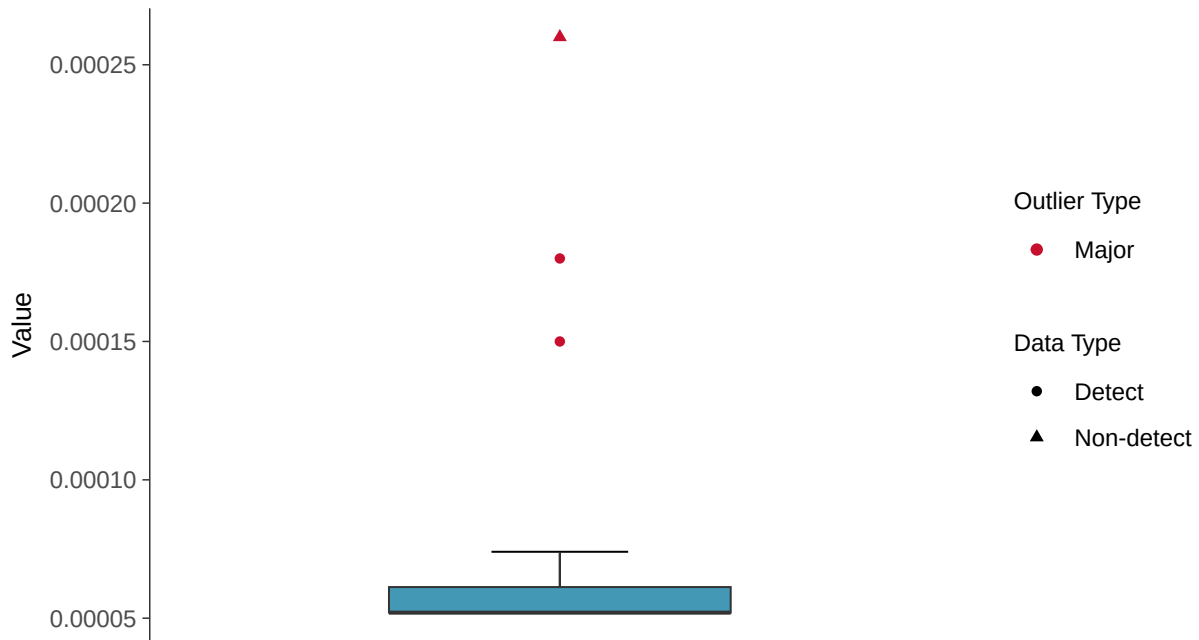
Barium, MW-03 (mg/L)





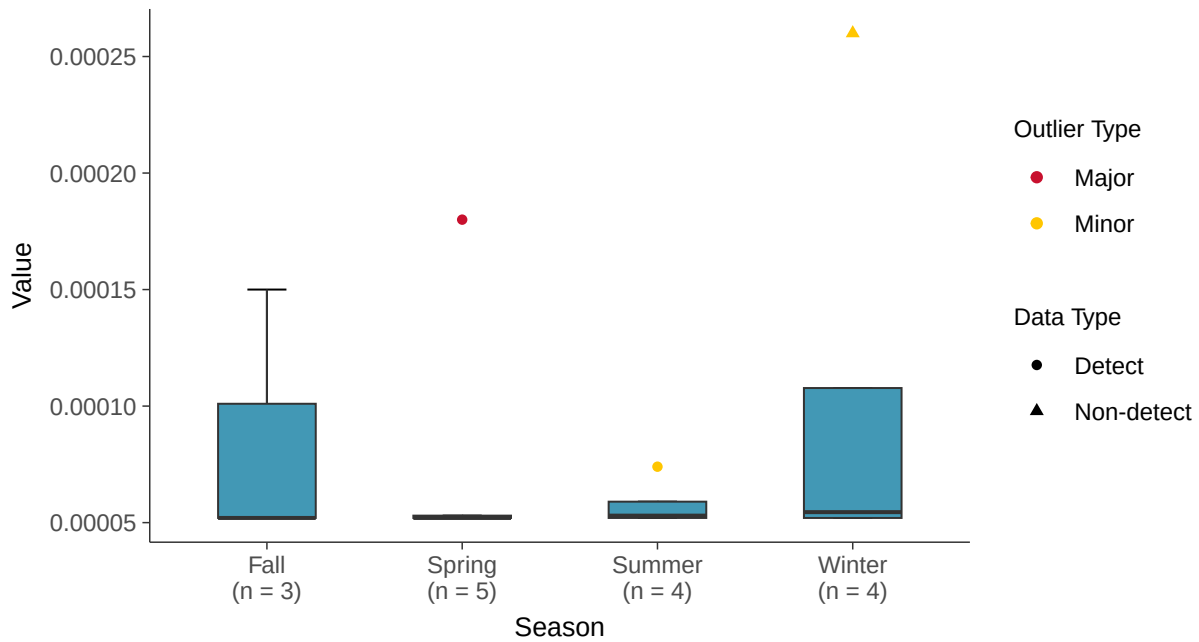
Boxplot

Beryllium, MW-03 (mg/L)



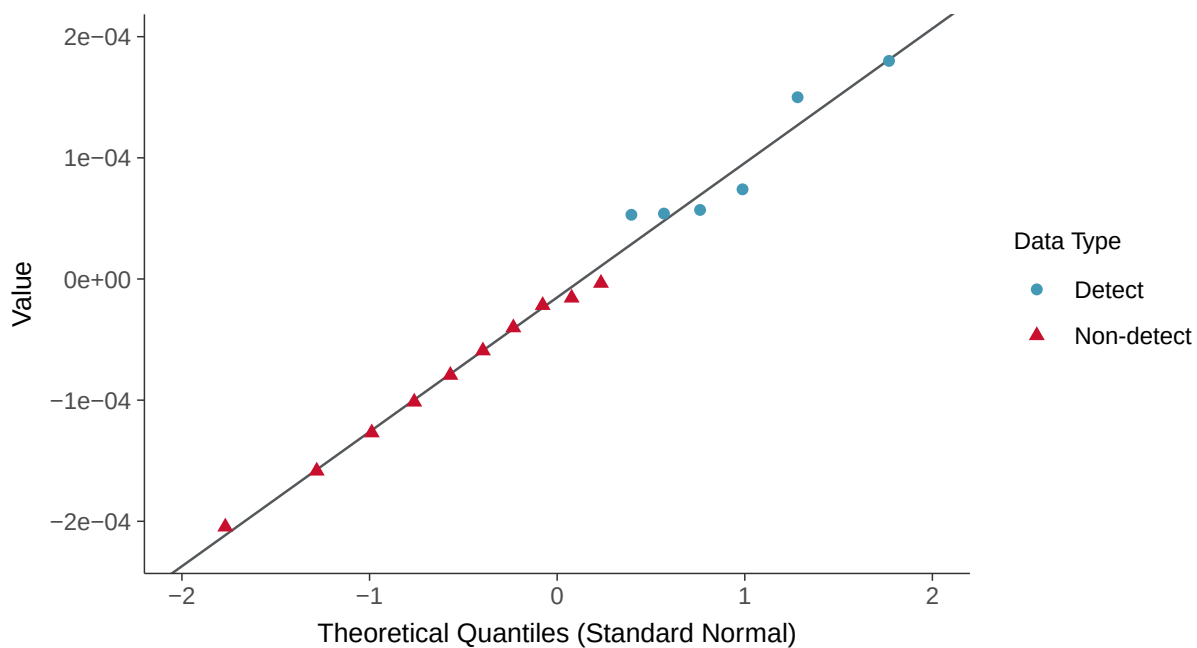
Boxplot by Season

Beryllium, MW-03 (mg/L)



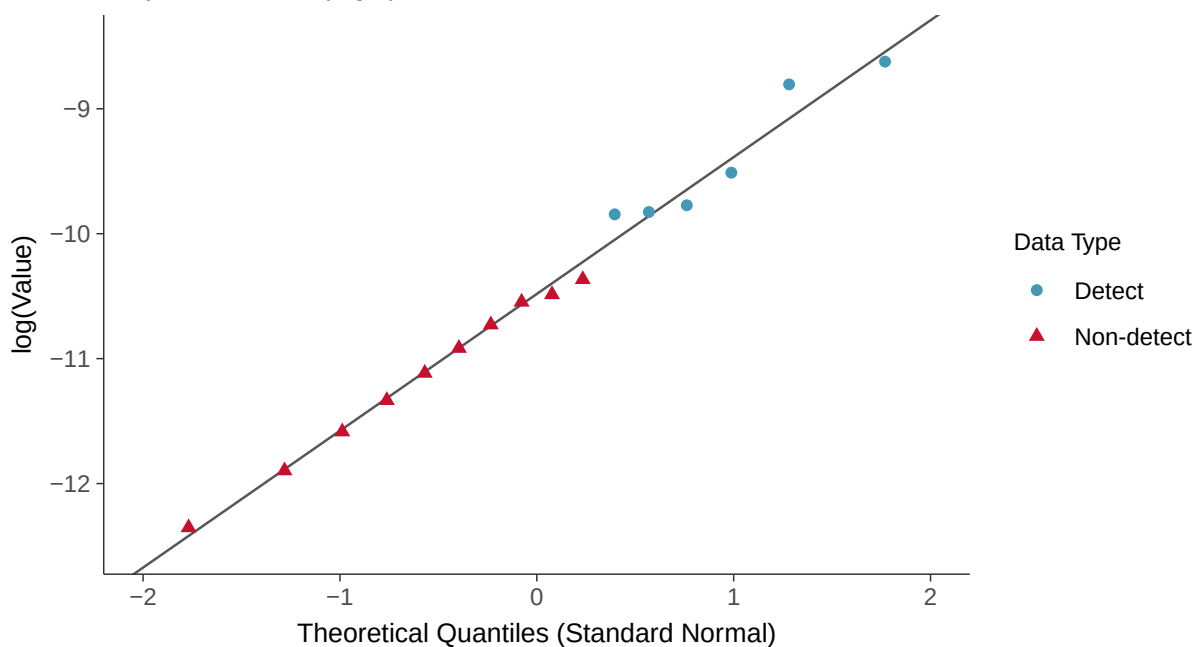
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-03 (mg/L)



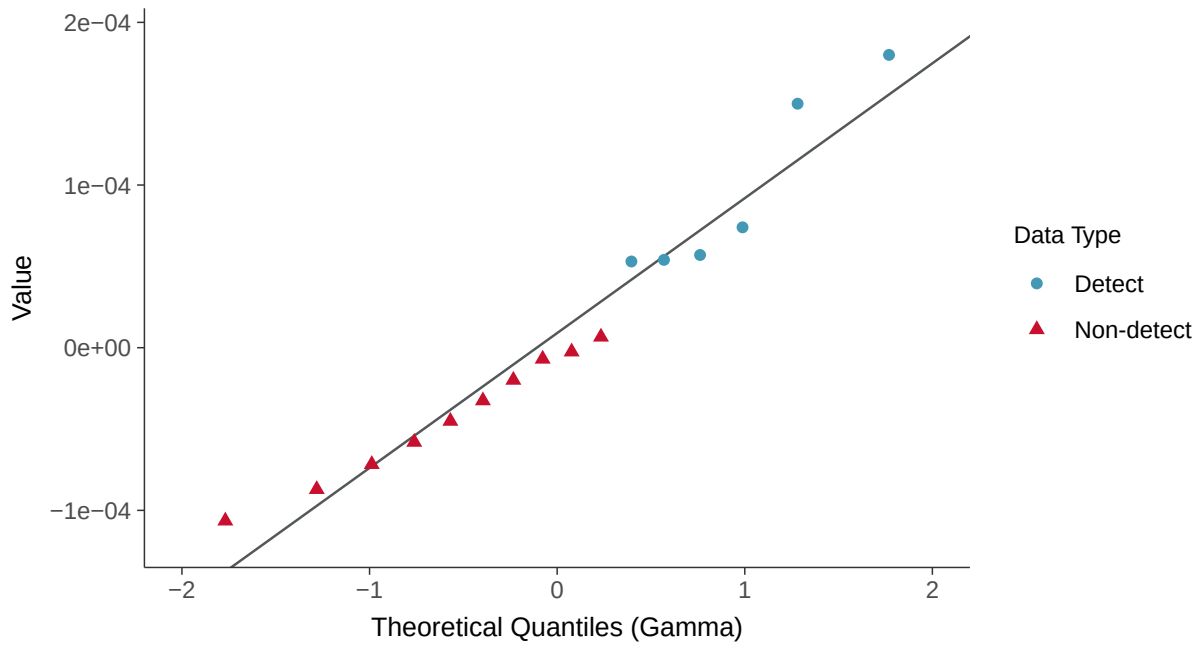
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-03 (mg/L)



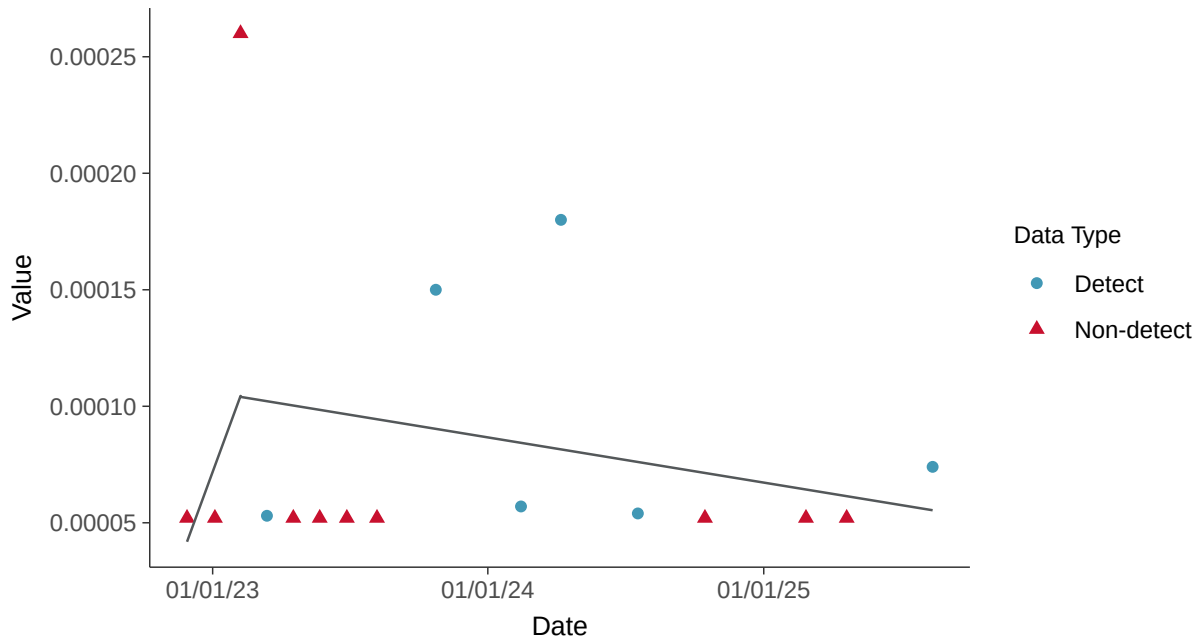
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

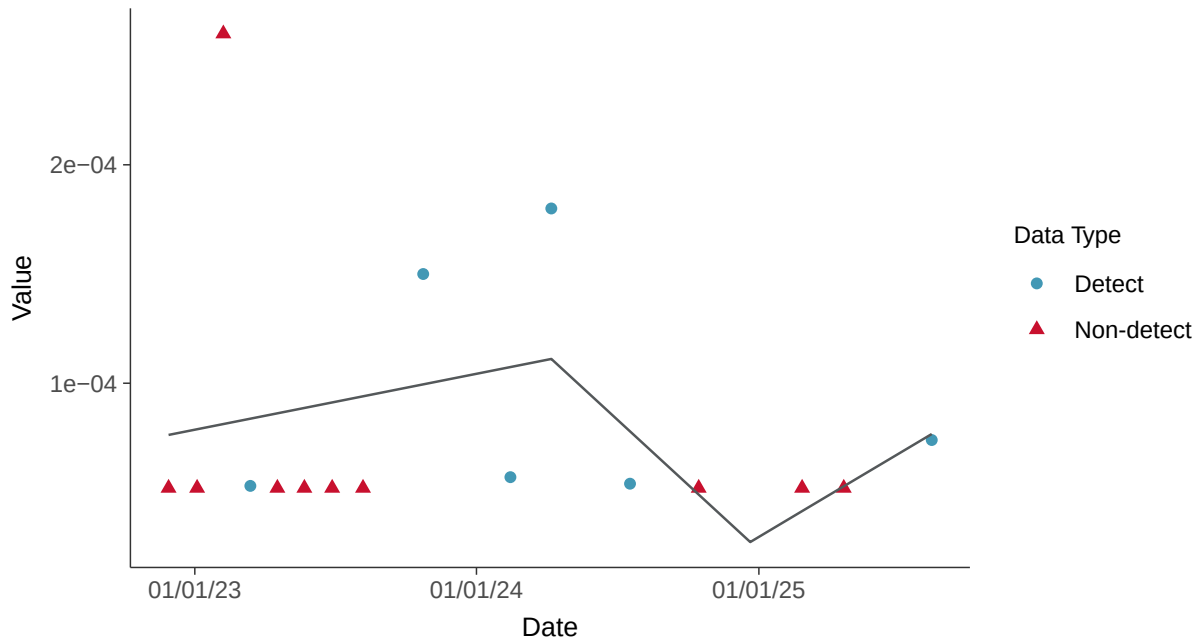
Beryllium, MW-03 (mg/L)

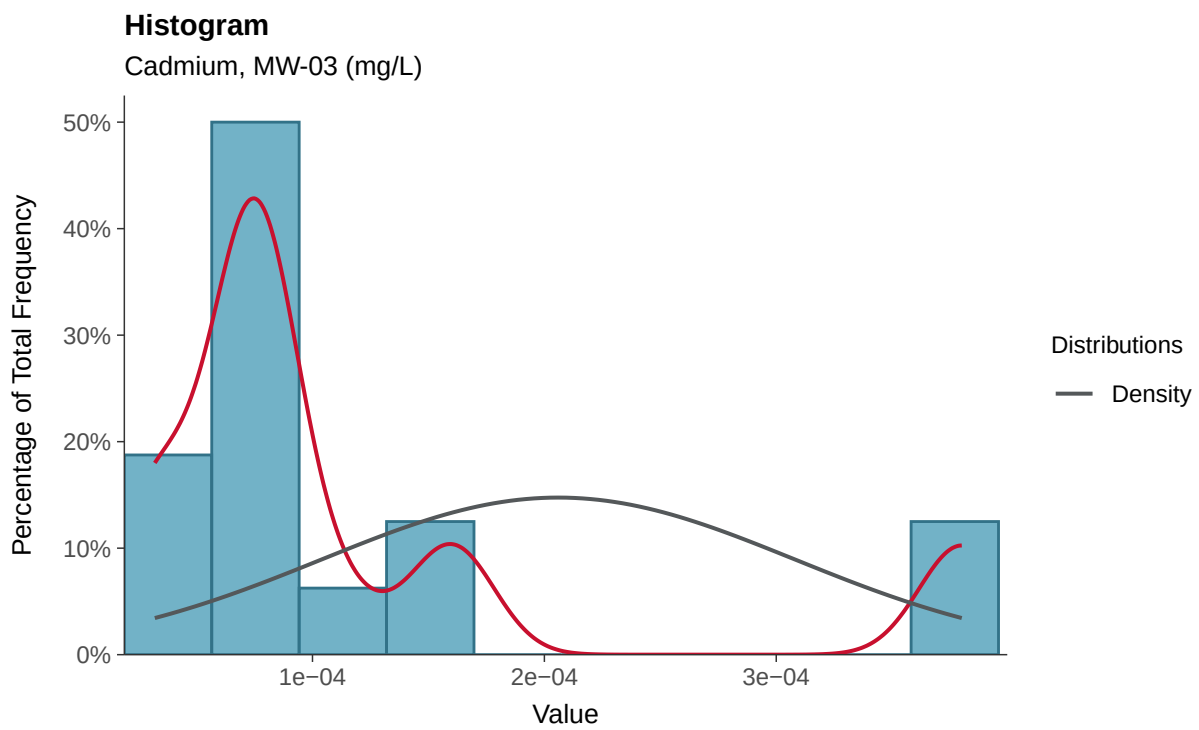




Trend Regression: Piecewise Linear-Linear-Linear

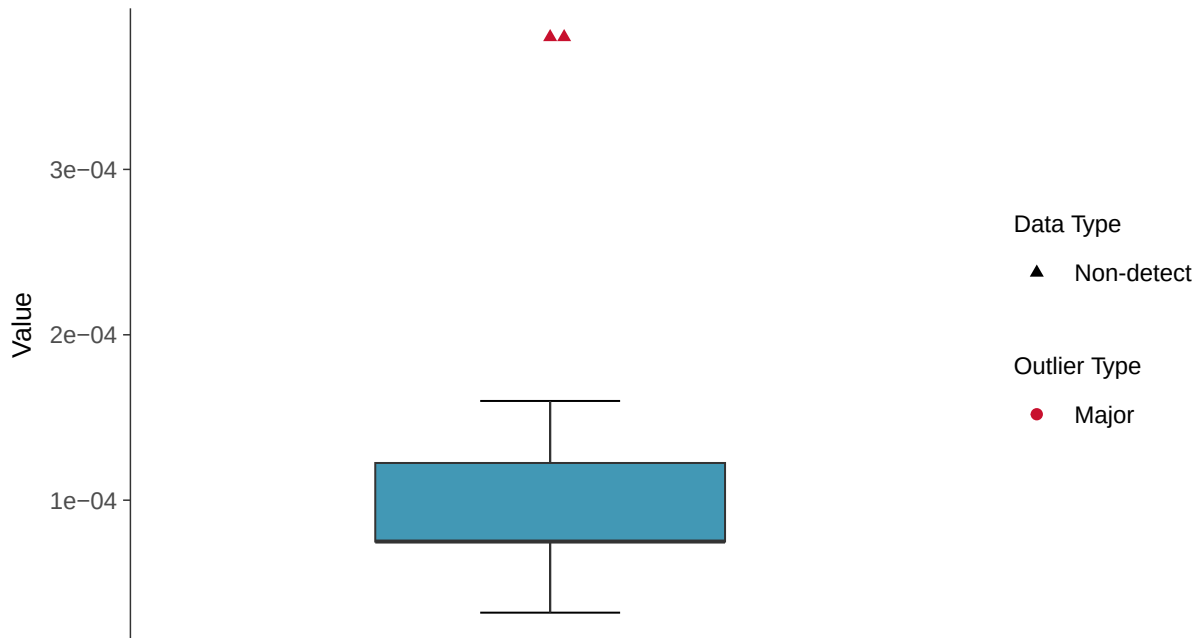
Beryllium, MW-03 (mg/L)





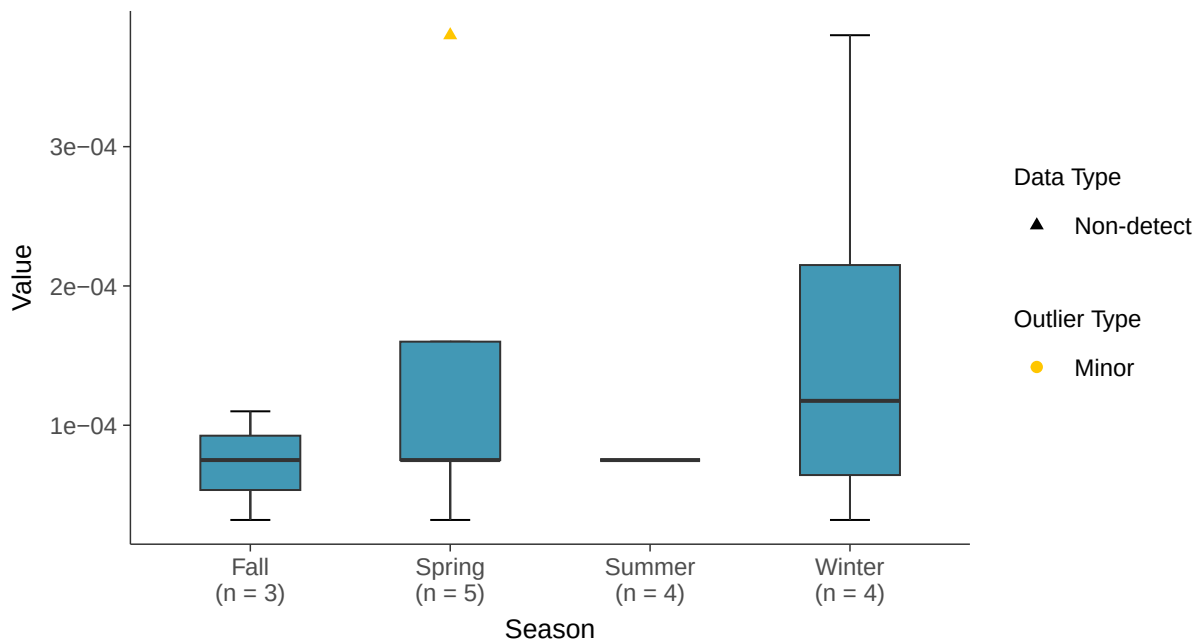
Boxplot

Cadmium, MW-03 (mg/L)

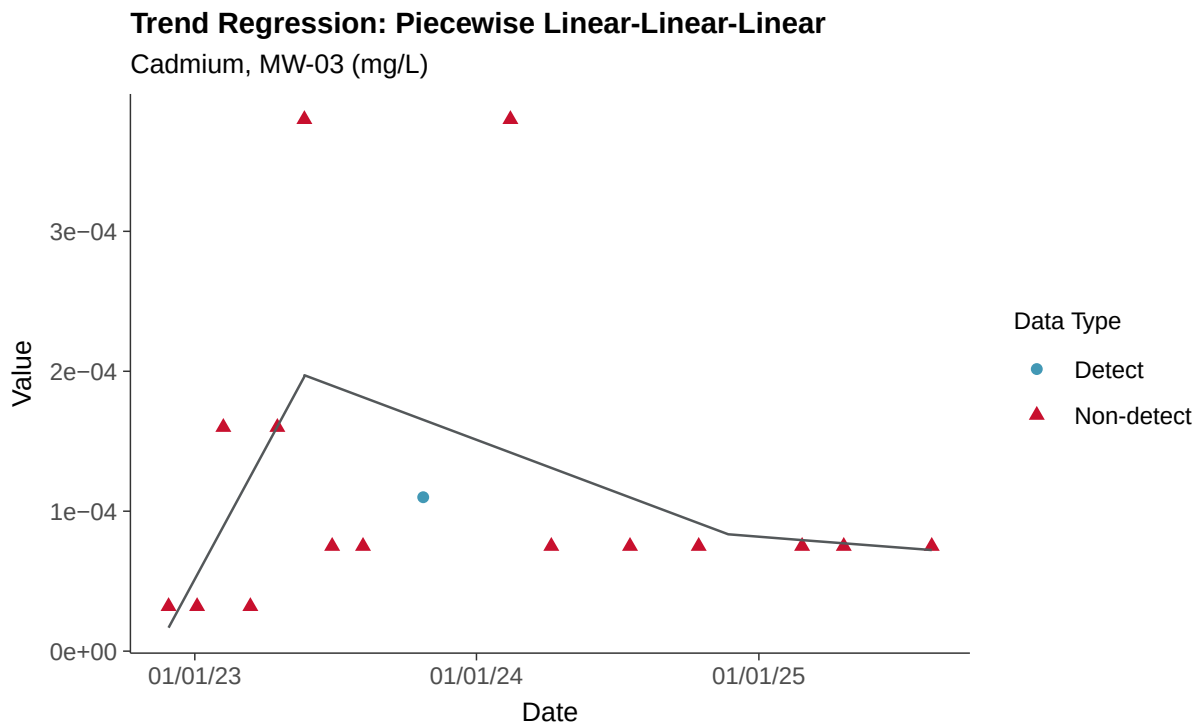


Boxplot by Season

Cadmium, MW-03 (mg/L)

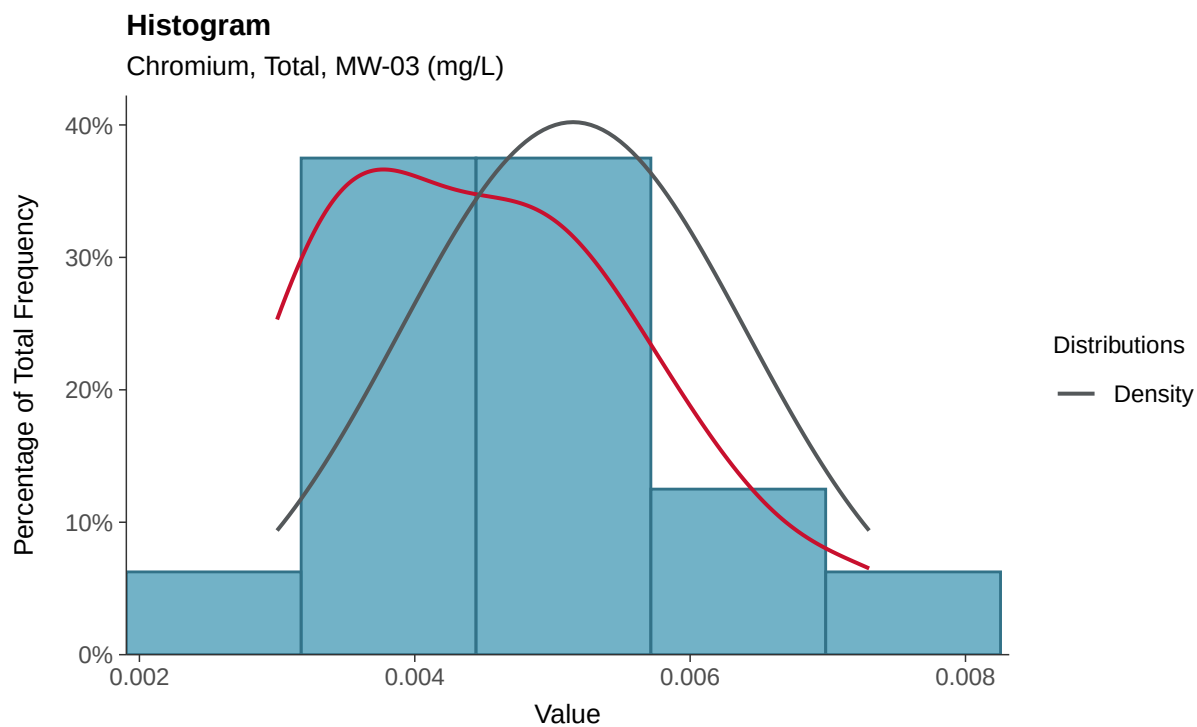
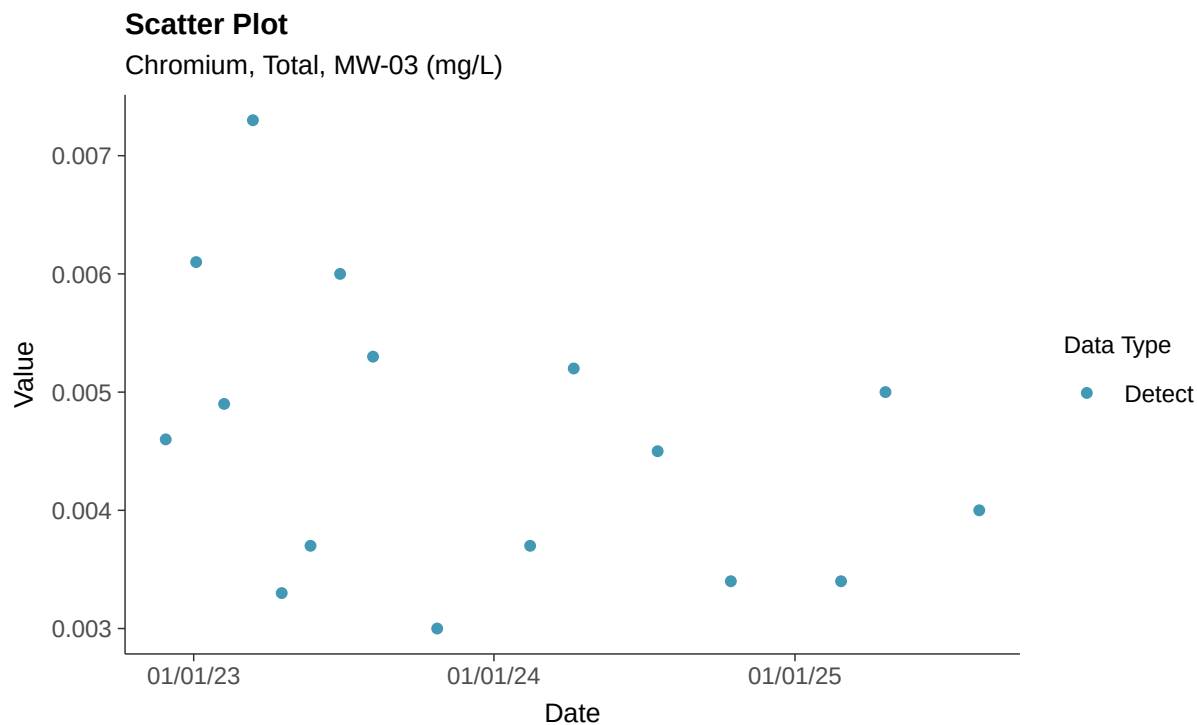


Cadmium, MW-03 (mg/L)



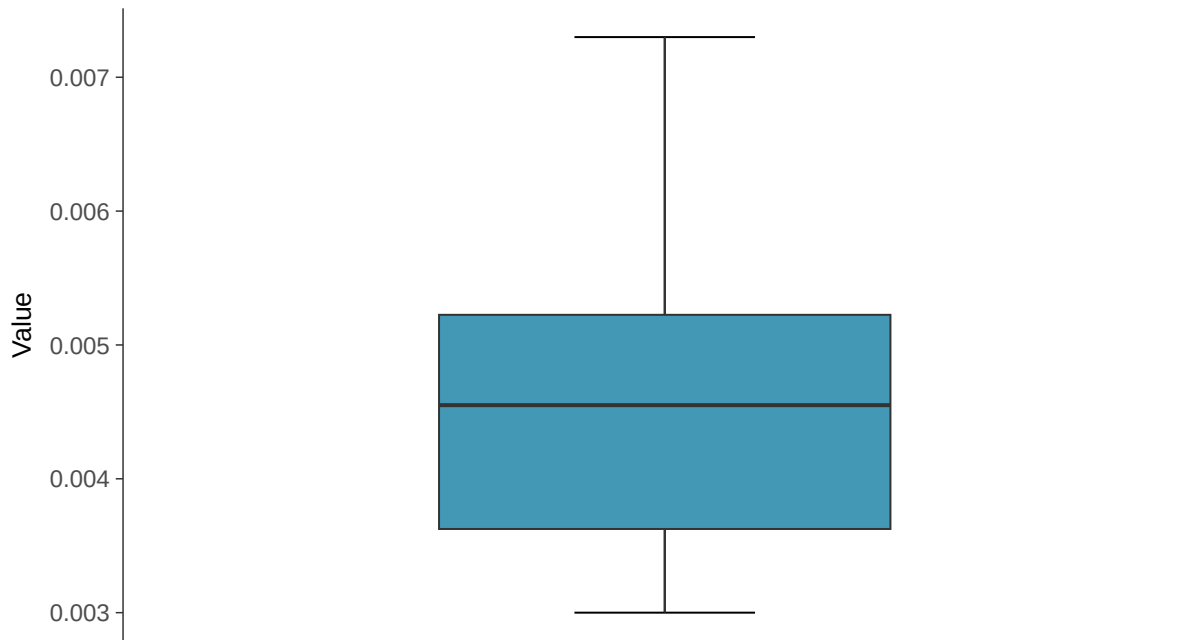
Appendix IV: Chromium, Total, MW-03

ID: 13_2_4_109



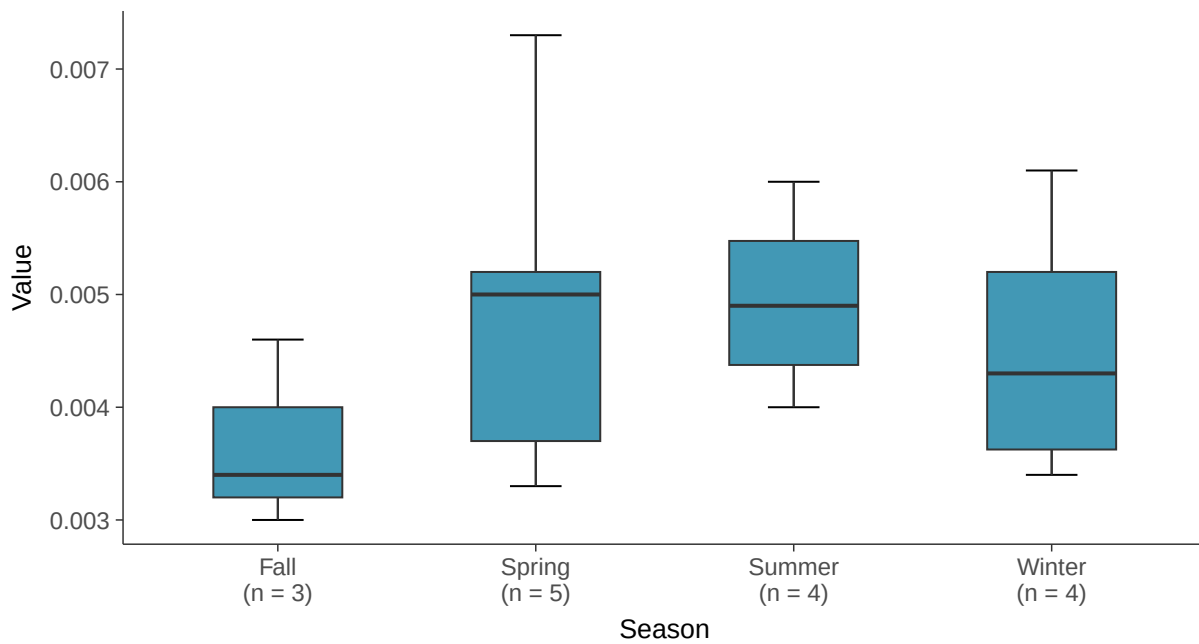
Boxplot

Chromium, Total, MW-03 (mg/L)



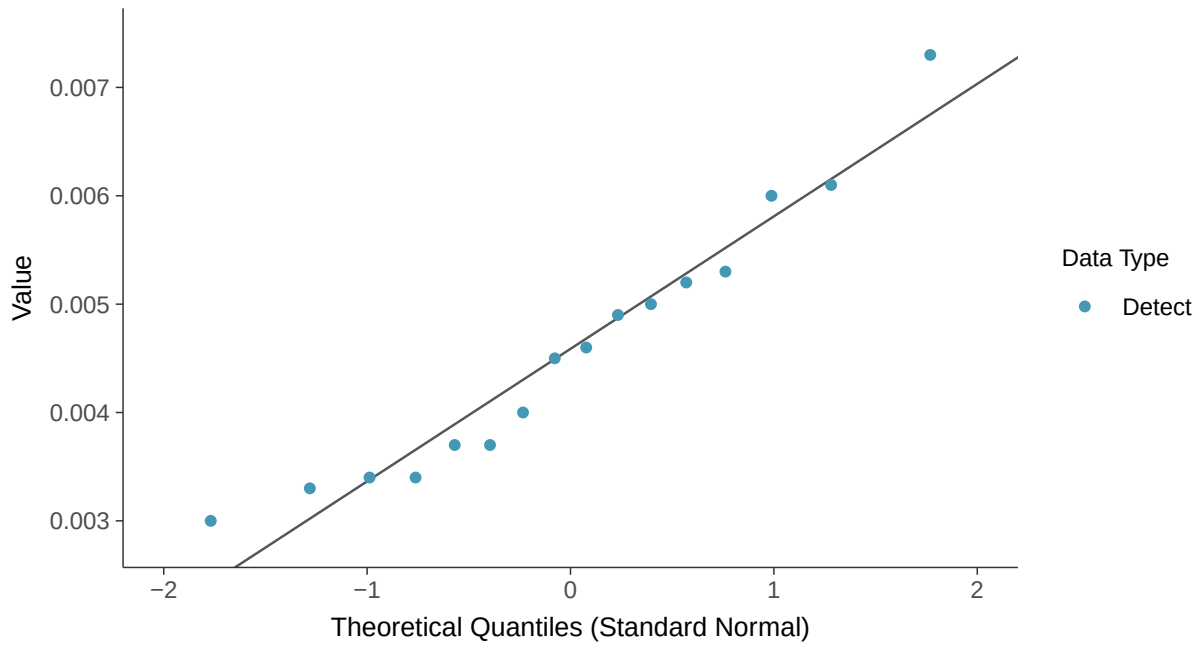
Boxplot by Season

Chromium, Total, MW-03 (mg/L)



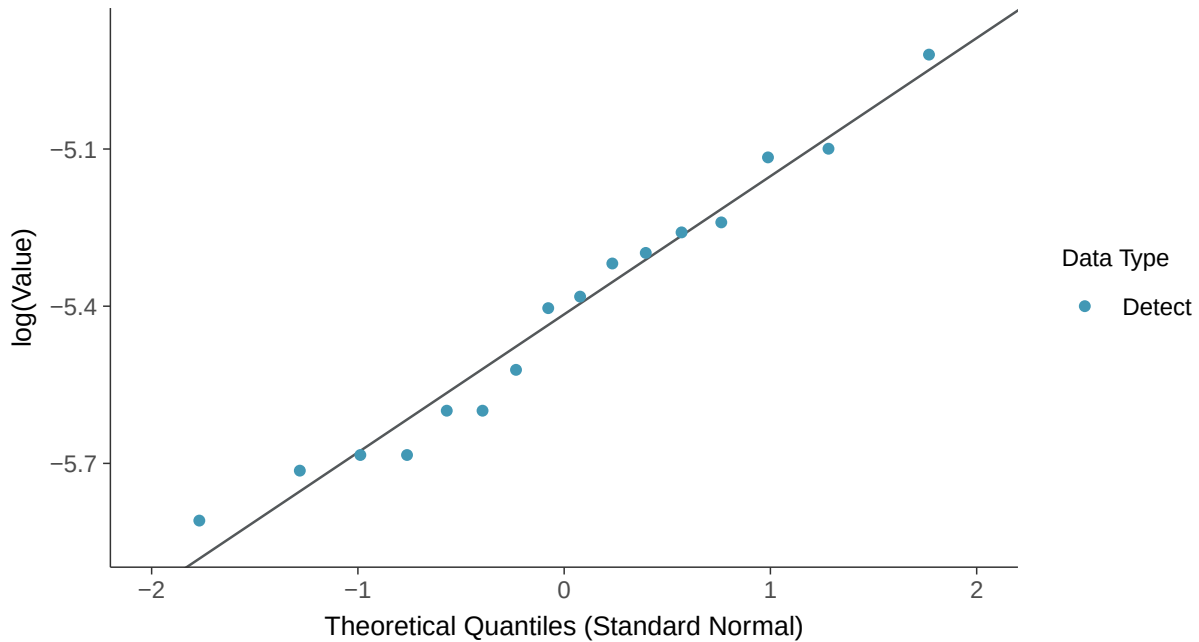
Normal Q-Q plot

Chromium, Total, MW-03 (mg/L)



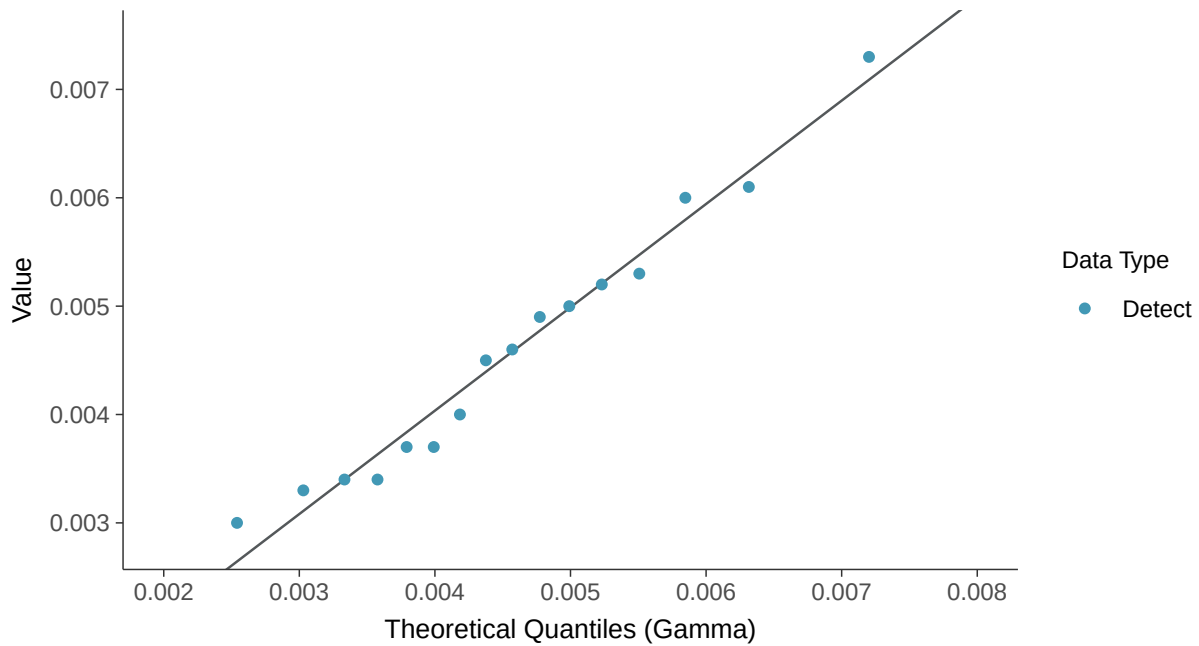
Lognormal Q-Q plot

Chromium, Total, MW-03 (mg/L)



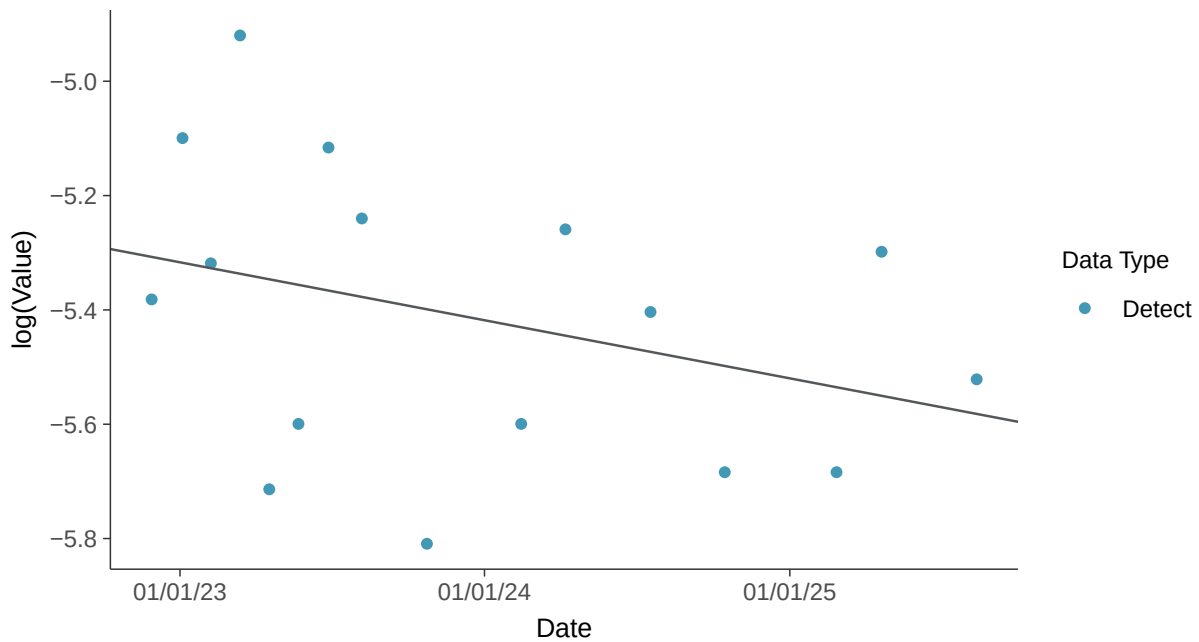
Gamma Q-Q plot

Chromium, Total, MW-03 (mg/L)



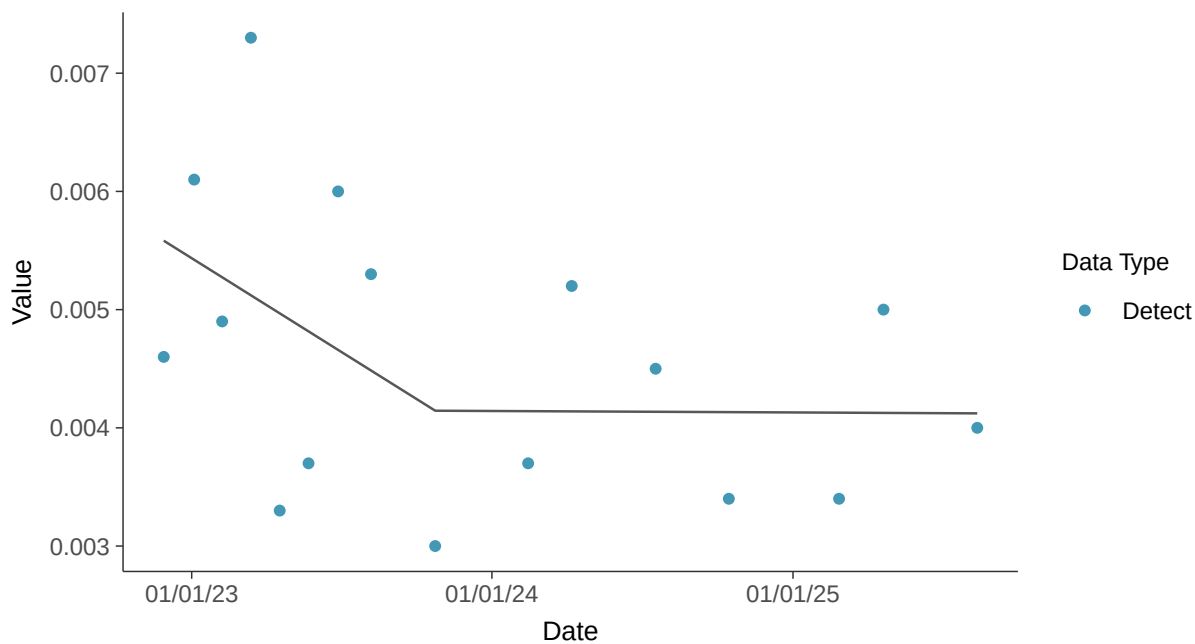
Trend Regression: Lognormal MLE

Chromium, Total, MW-03 (mg/L)



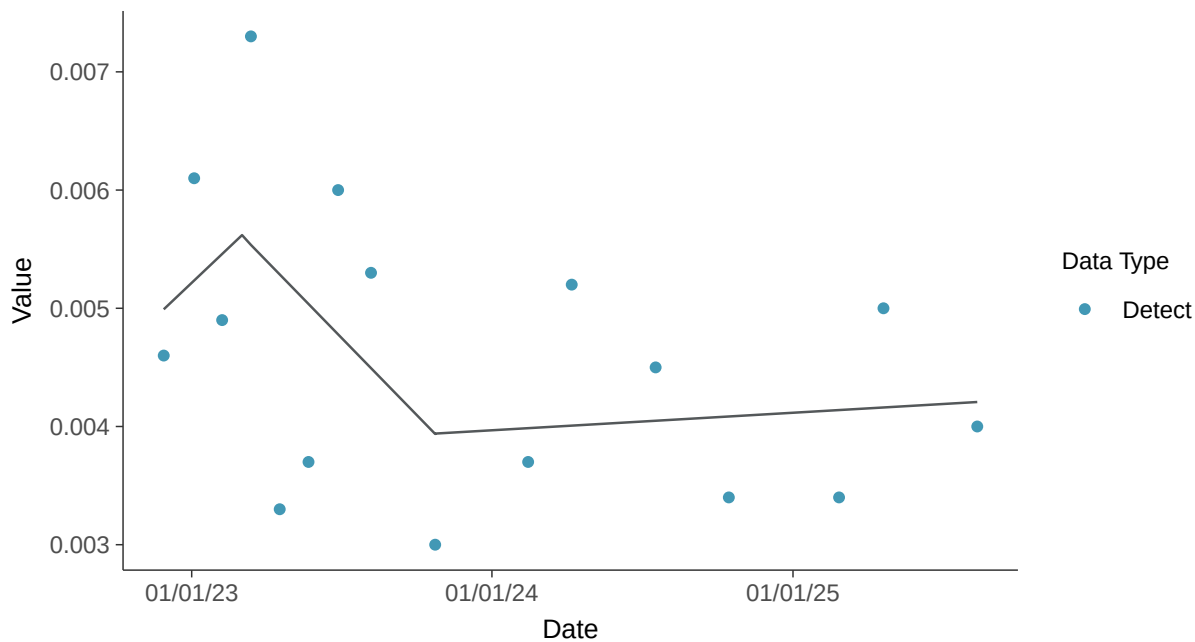
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-03 (mg/L)



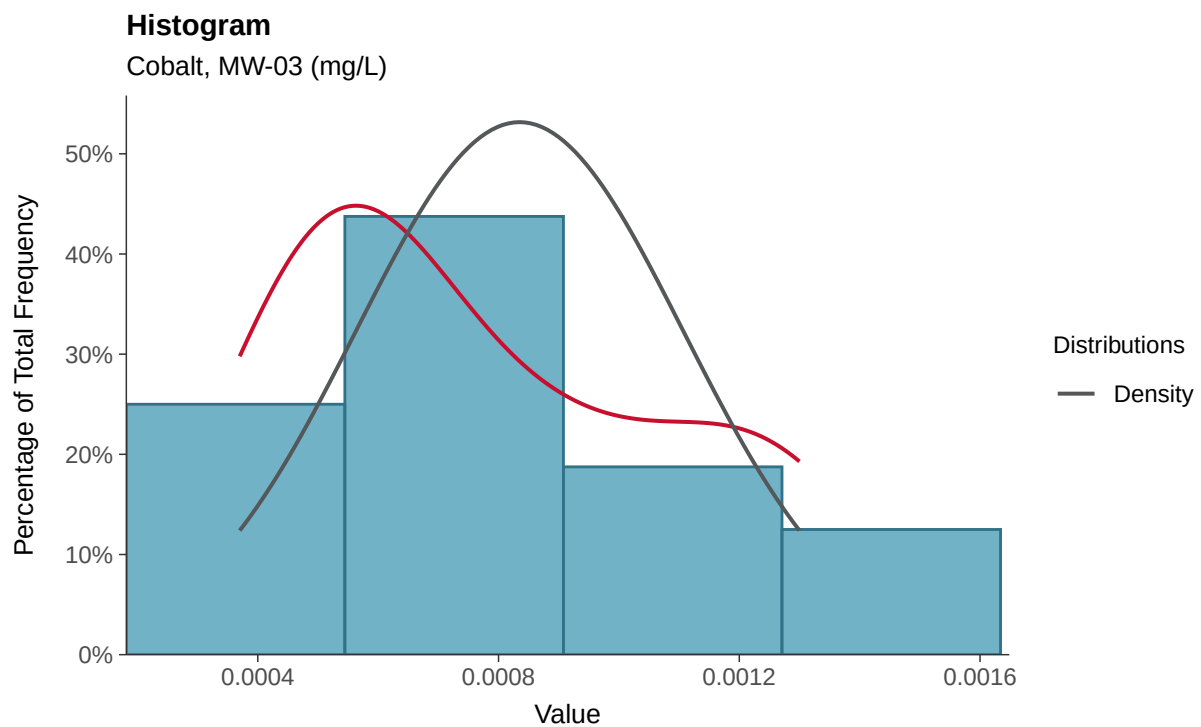
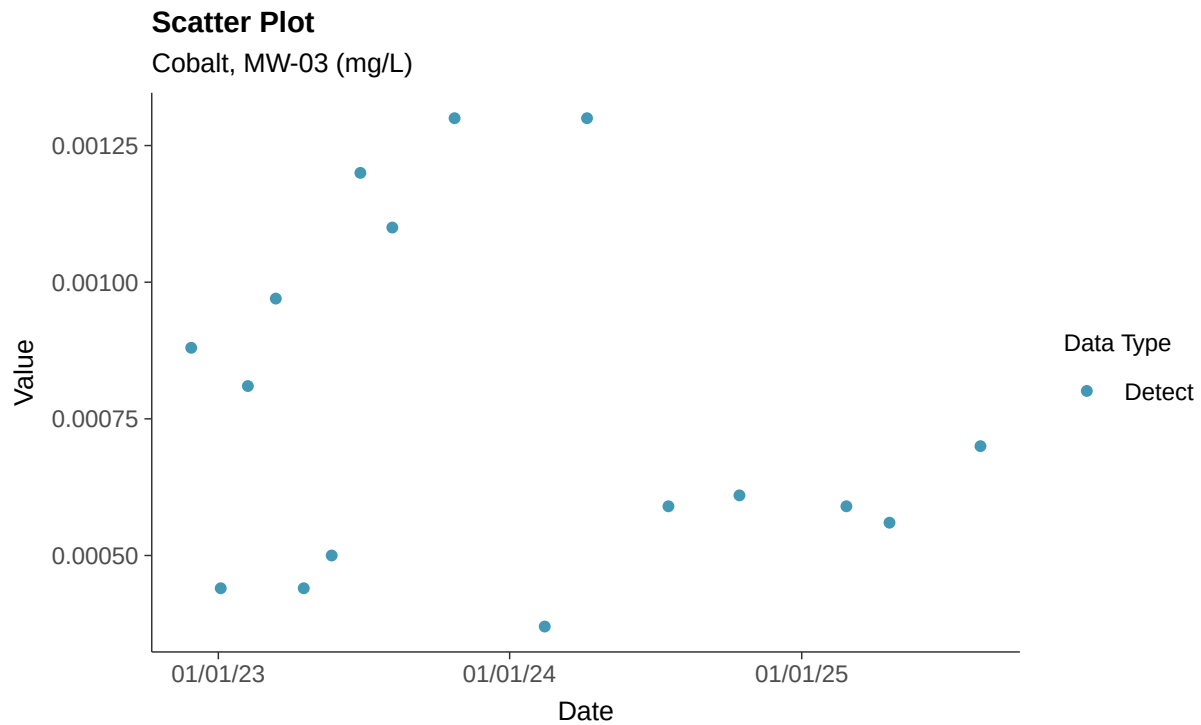
Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-03 (mg/L)



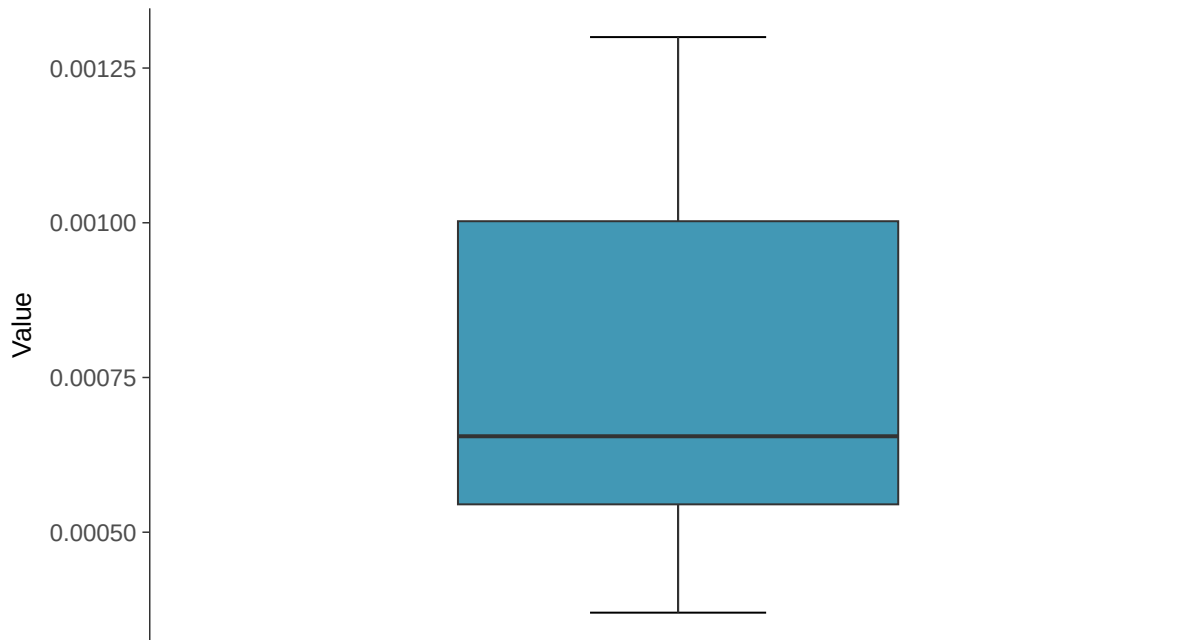
Appendix IV: Cobalt, MW-03

ID: 13_2_4_110



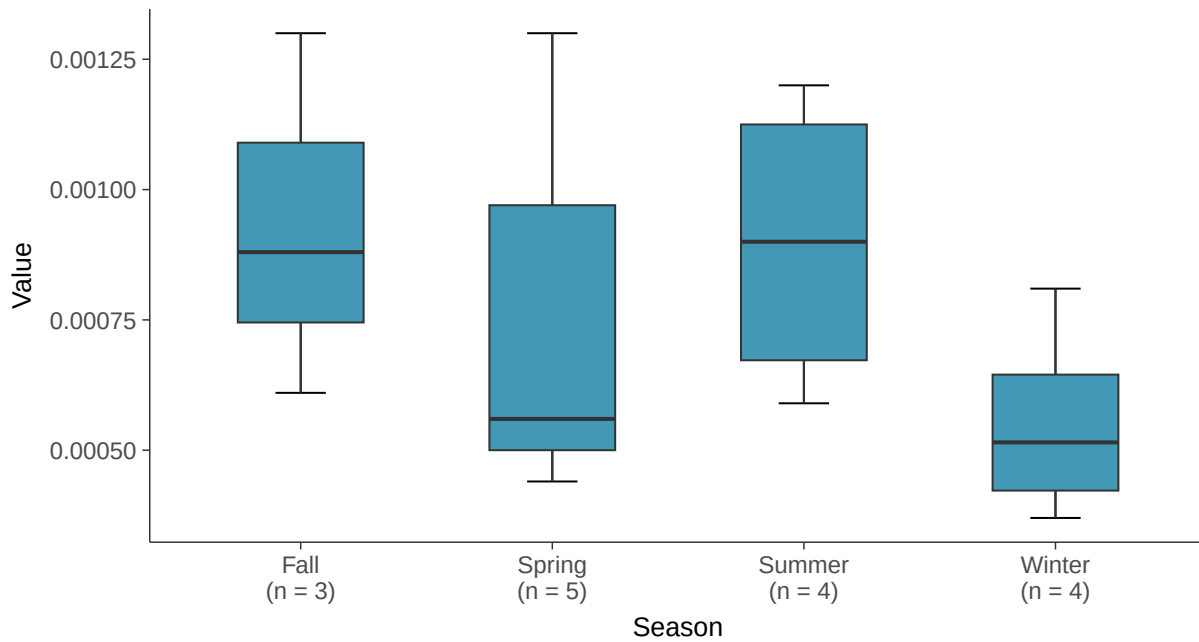
Boxplot

Cobalt, MW-03 (mg/L)

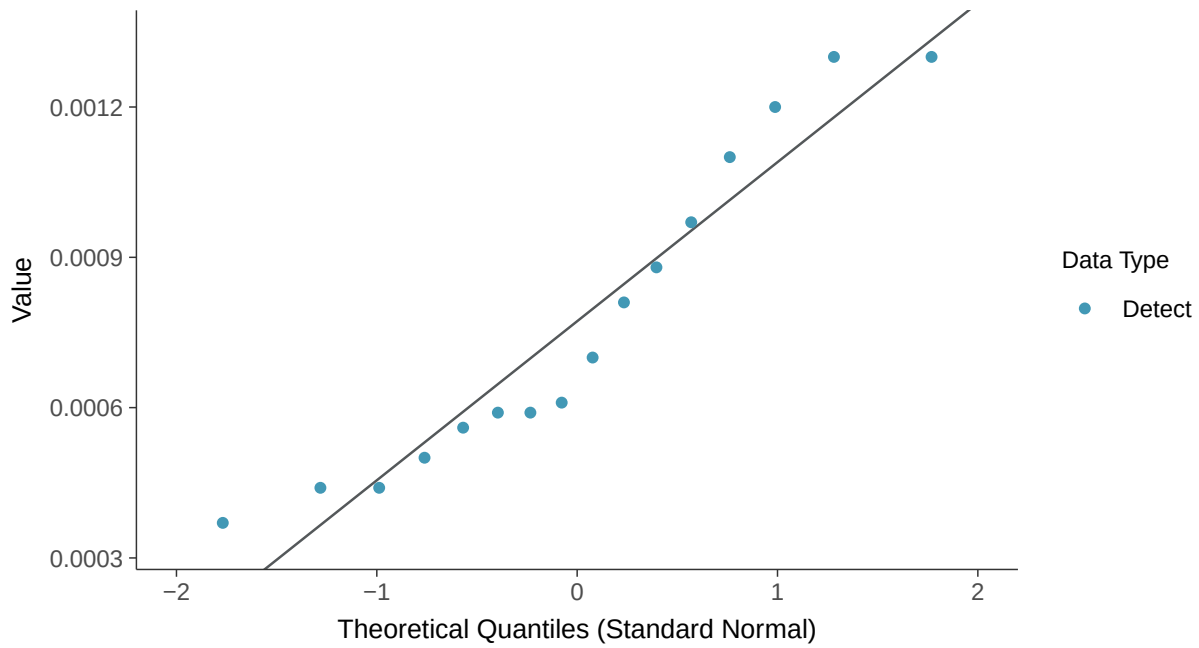


Boxplot by Season

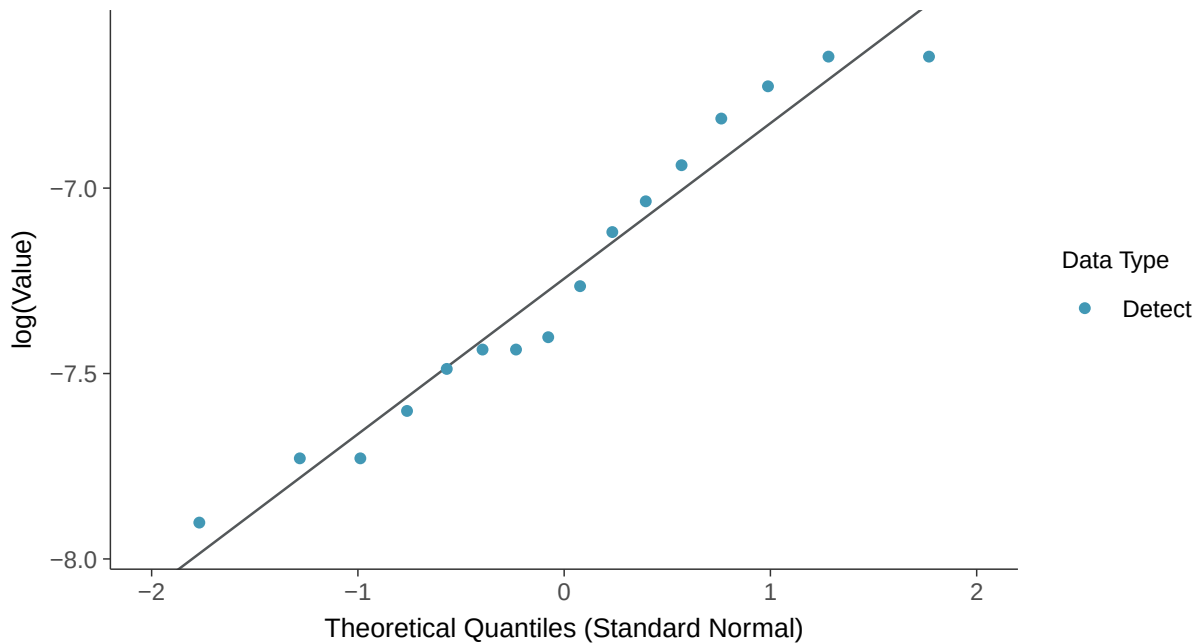
Cobalt, MW-03 (mg/L)

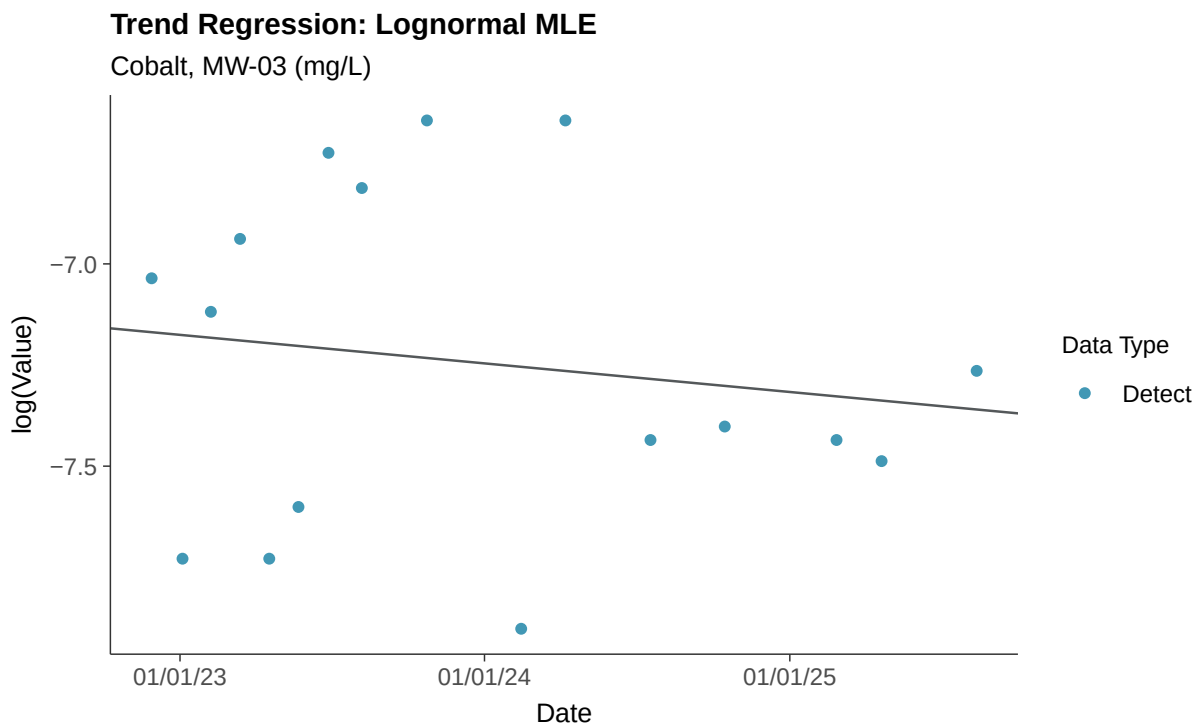
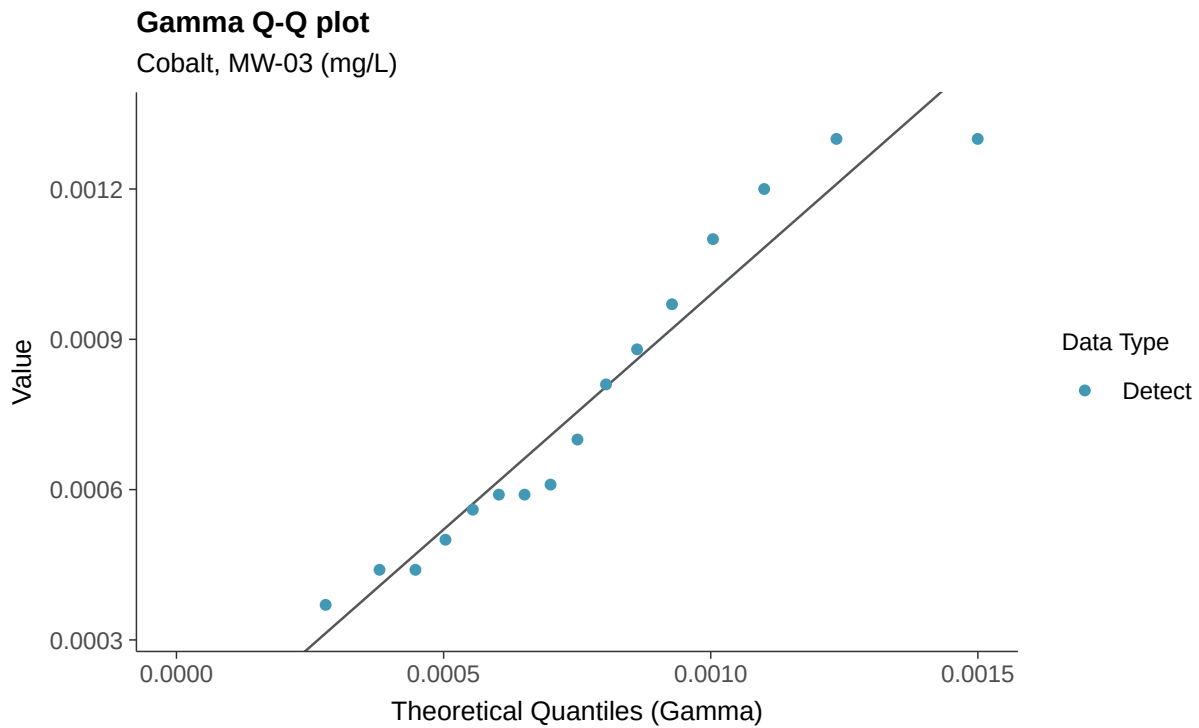


Normal Q-Q plot
Cobalt, MW-03 (mg/L)



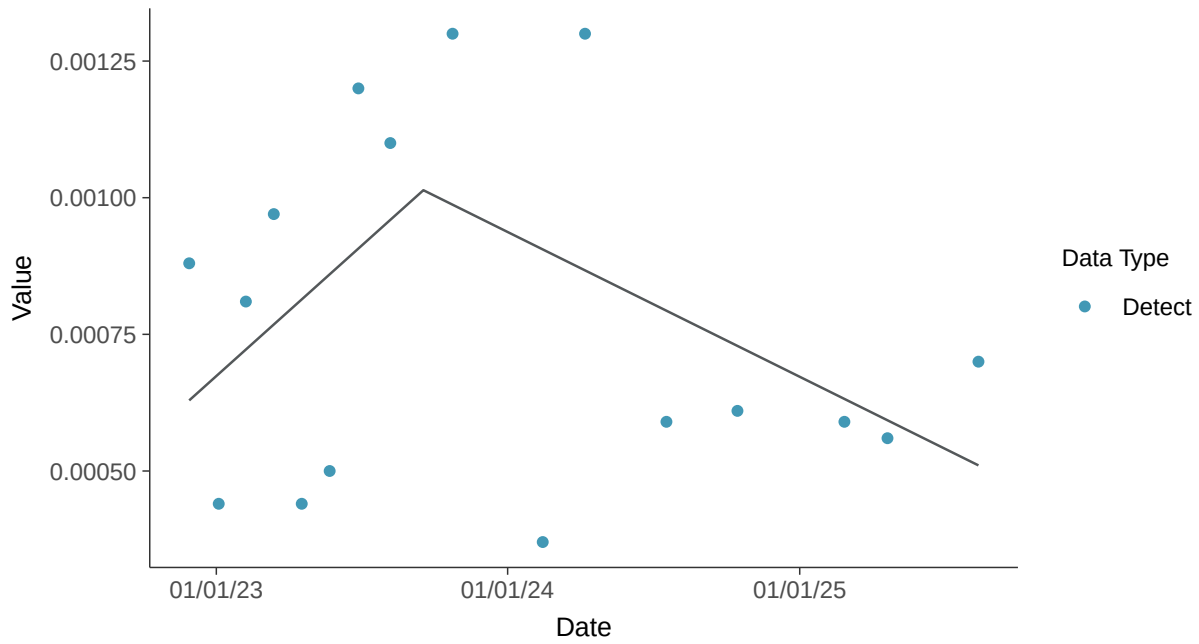
Lognormal Q-Q plot
Cobalt, MW-03 (mg/L)





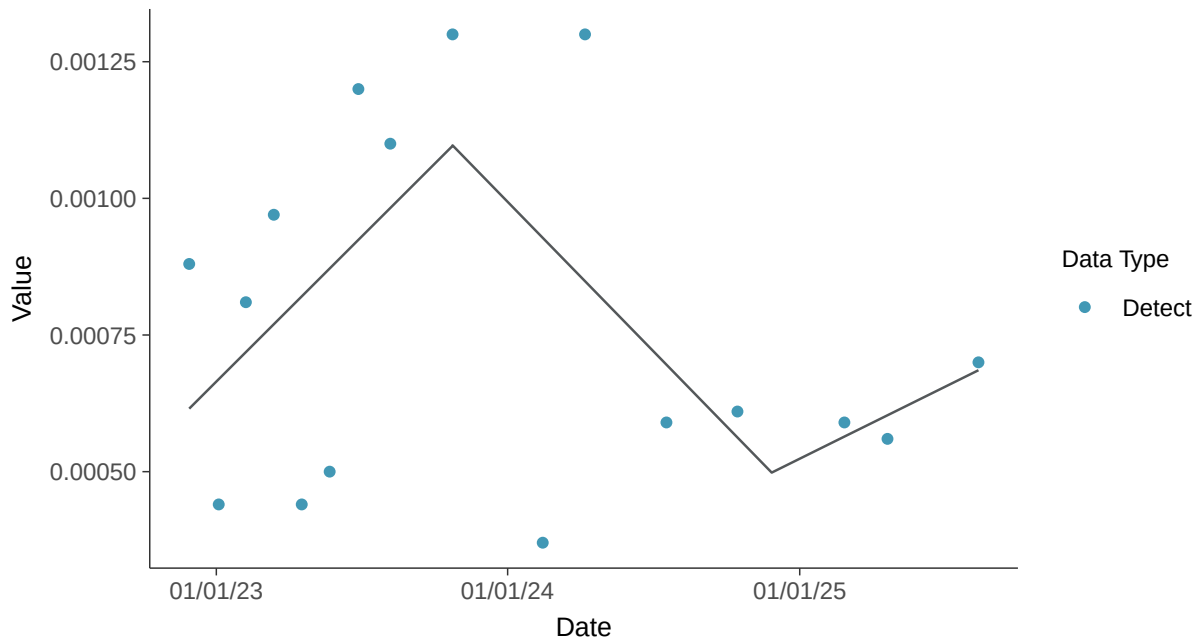
Trend Regression: Piecewise Linear-Linear

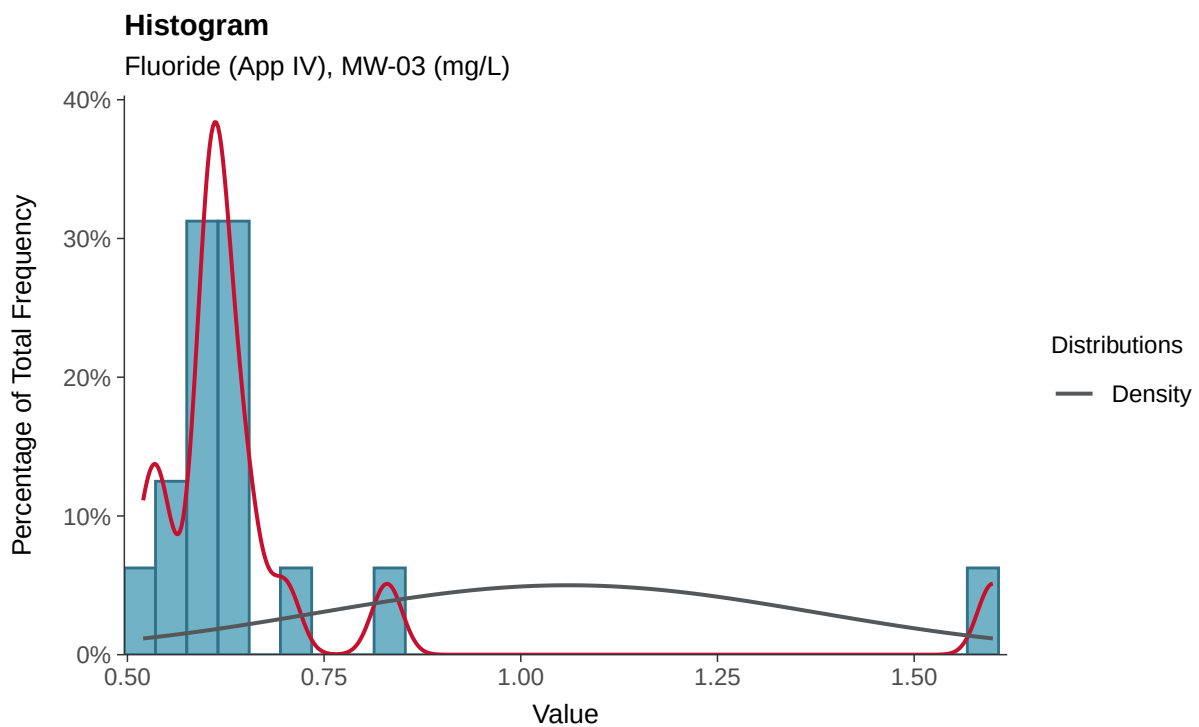
Cobalt, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

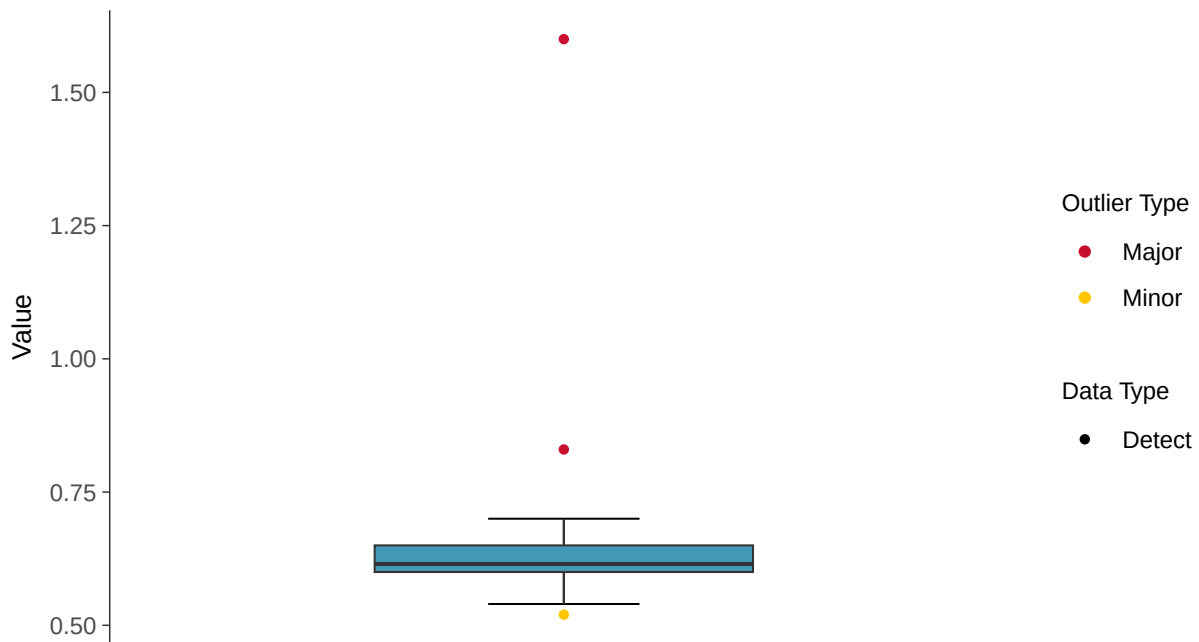
Cobalt, MW-03 (mg/L)





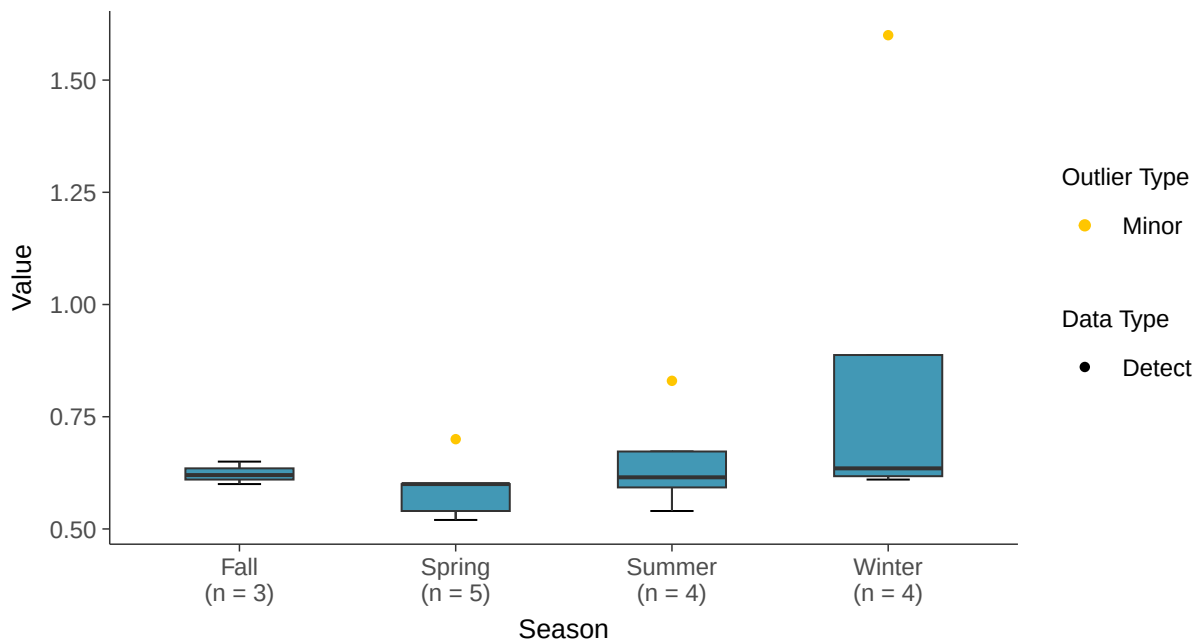
Boxplot

Fluoride (App IV), MW-03 (mg/L)

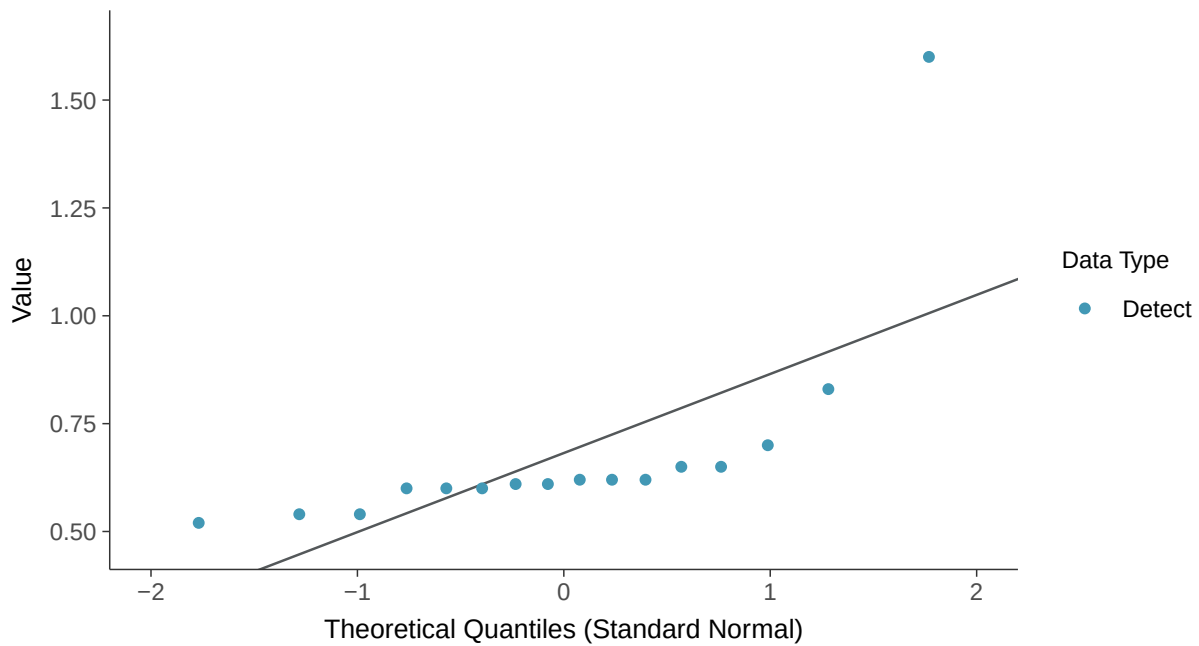


Boxplot by Season

Fluoride (App IV), MW-03 (mg/L)

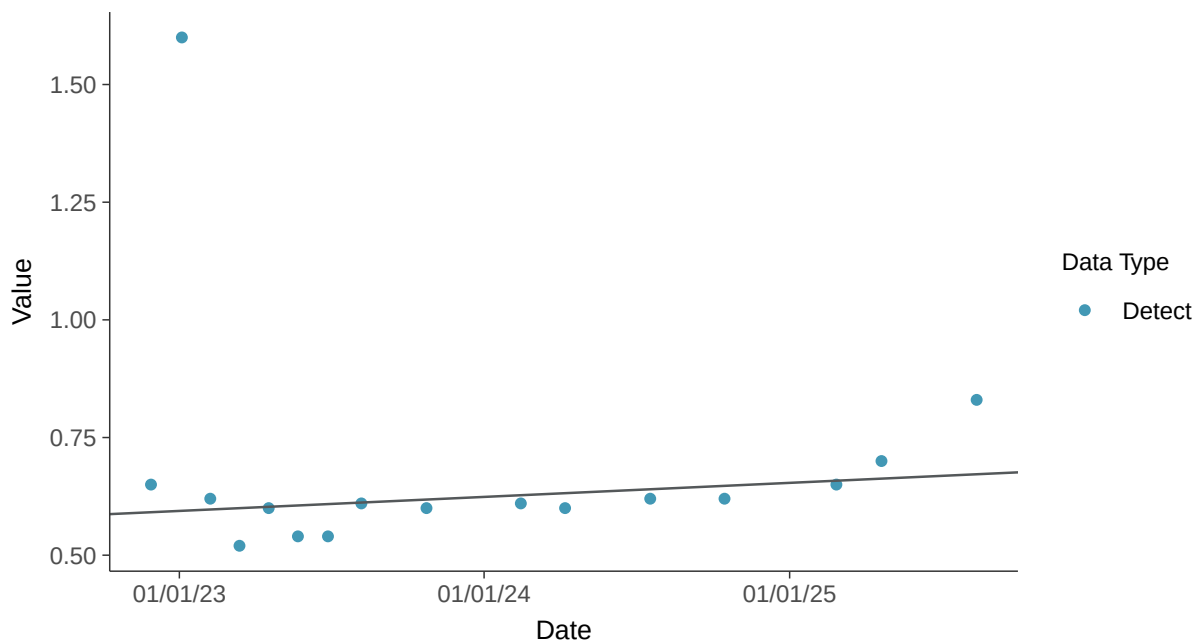


Fluoride (App IV), MW-03 (mg/L)



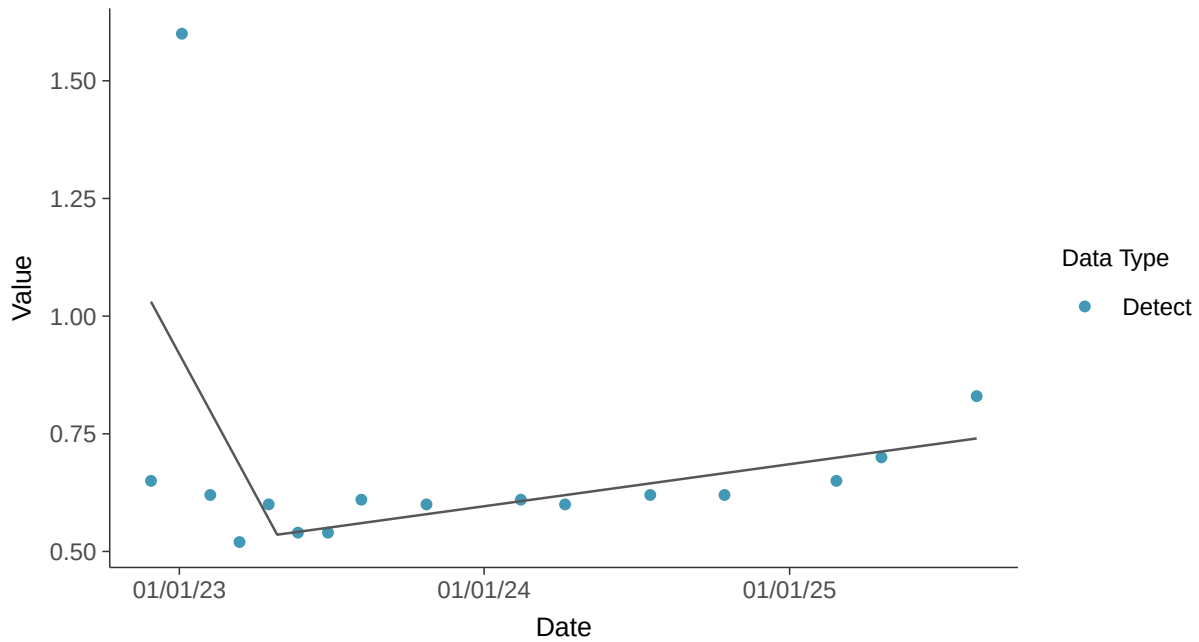
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-03 (mg/L)



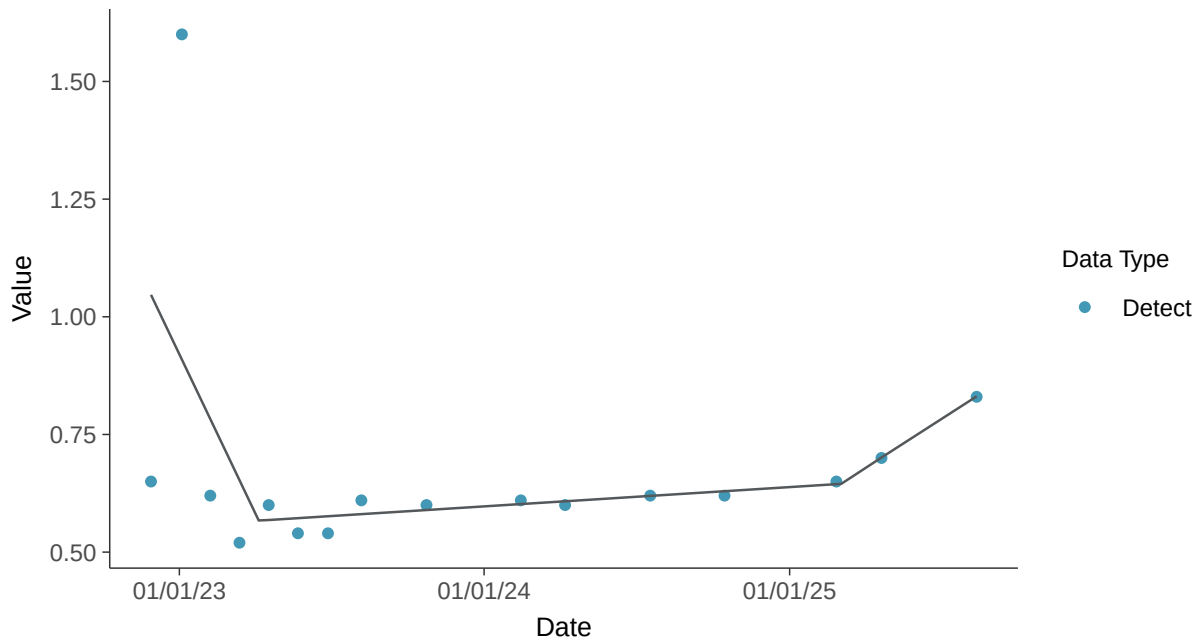
Trend Regression: Piecewise Linear-Linear

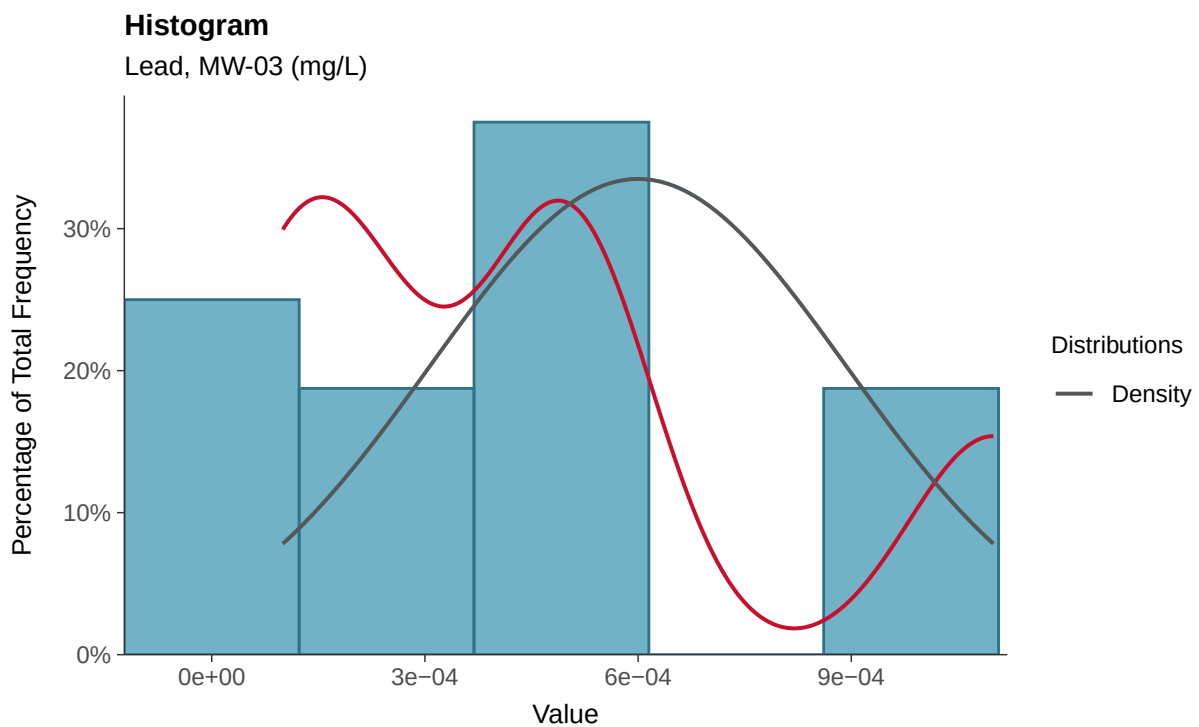
Fluoride (App IV), MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

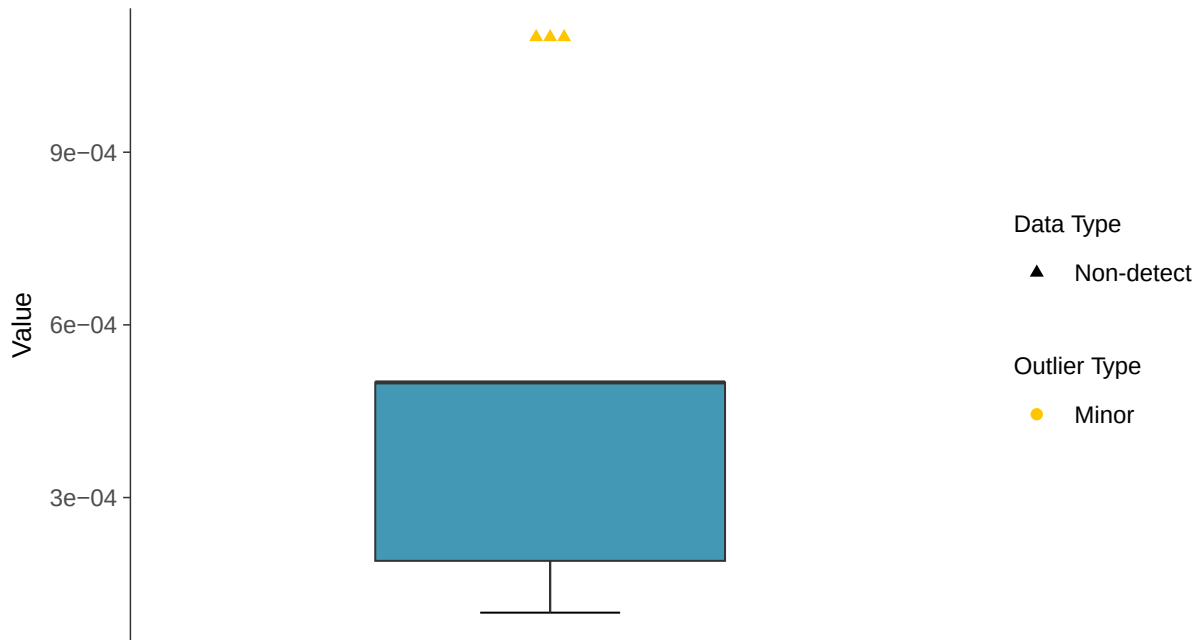
Fluoride (App IV), MW-03 (mg/L)





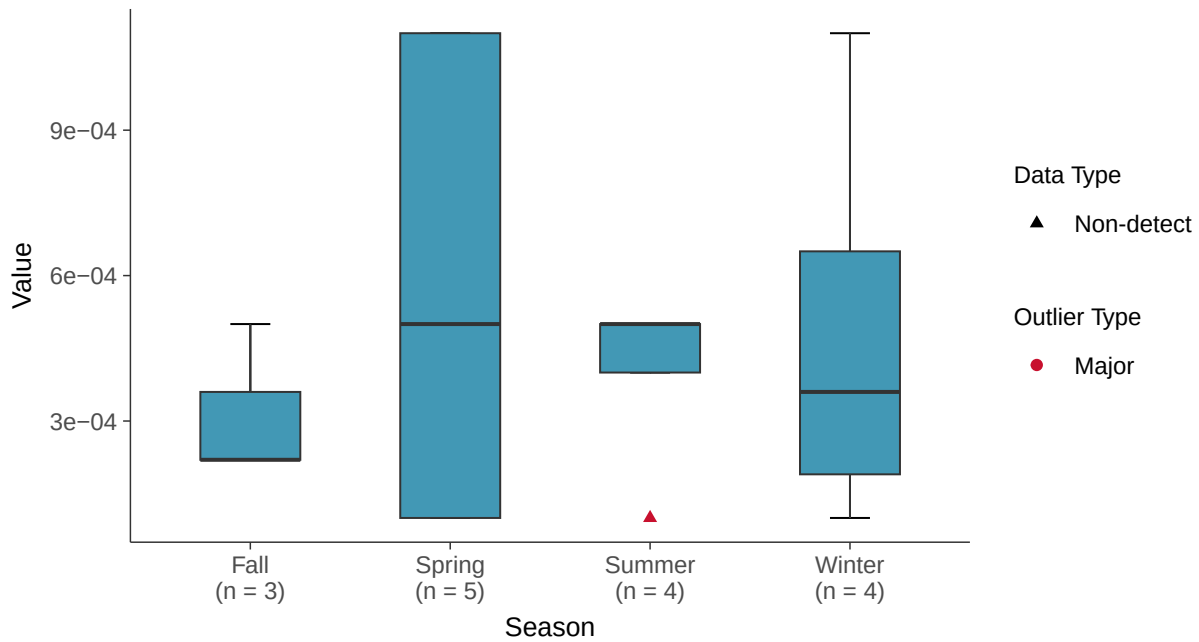
Boxplot

Lead, MW-03 (mg/L)



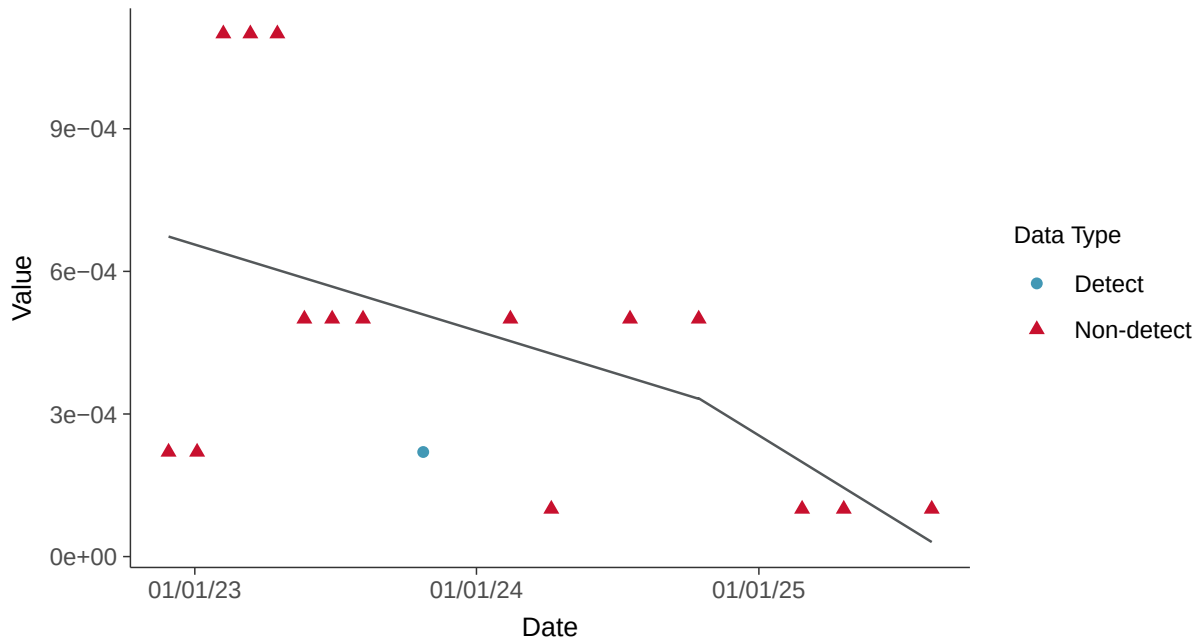
Boxplot by Season

Lead, MW-03 (mg/L)



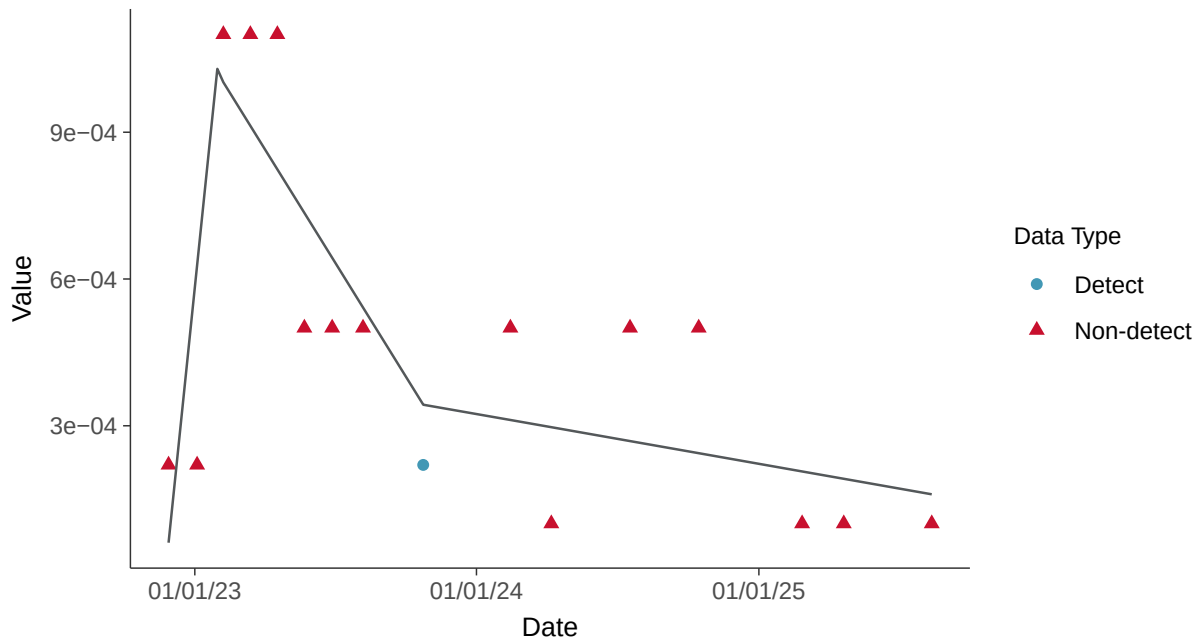
Trend Regression: Piecewise Linear-Linear

Lead, MW-03 (mg/L)



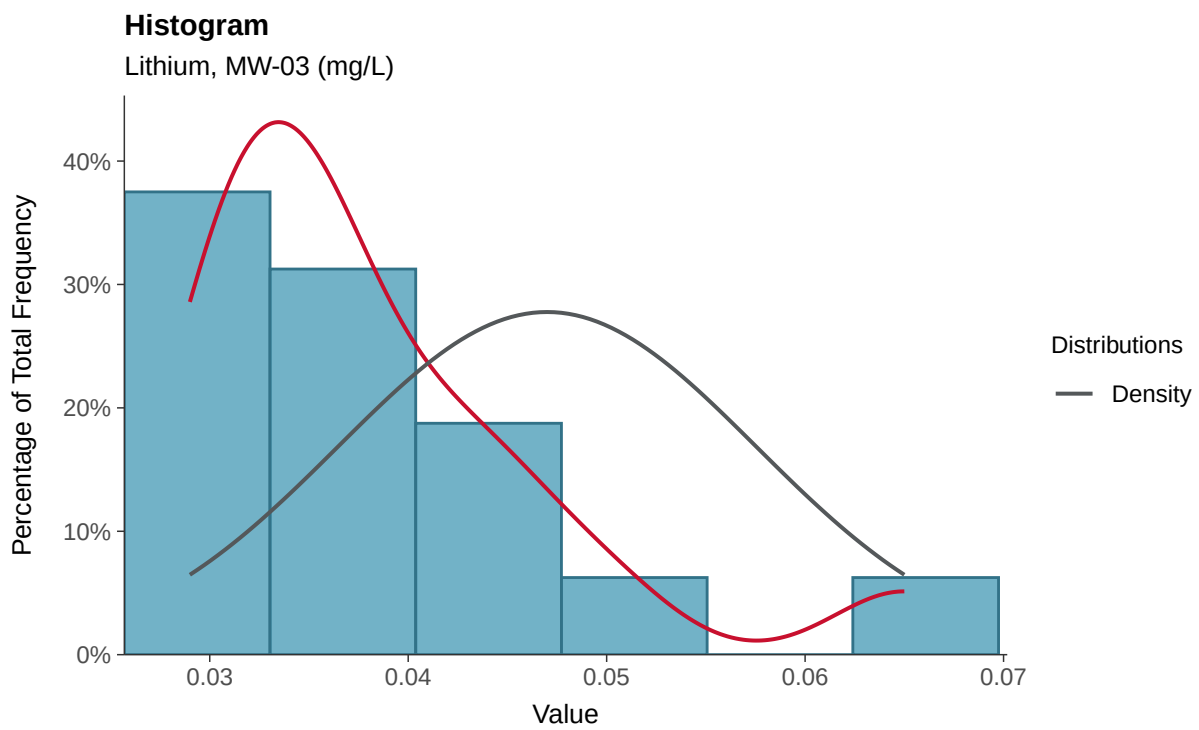
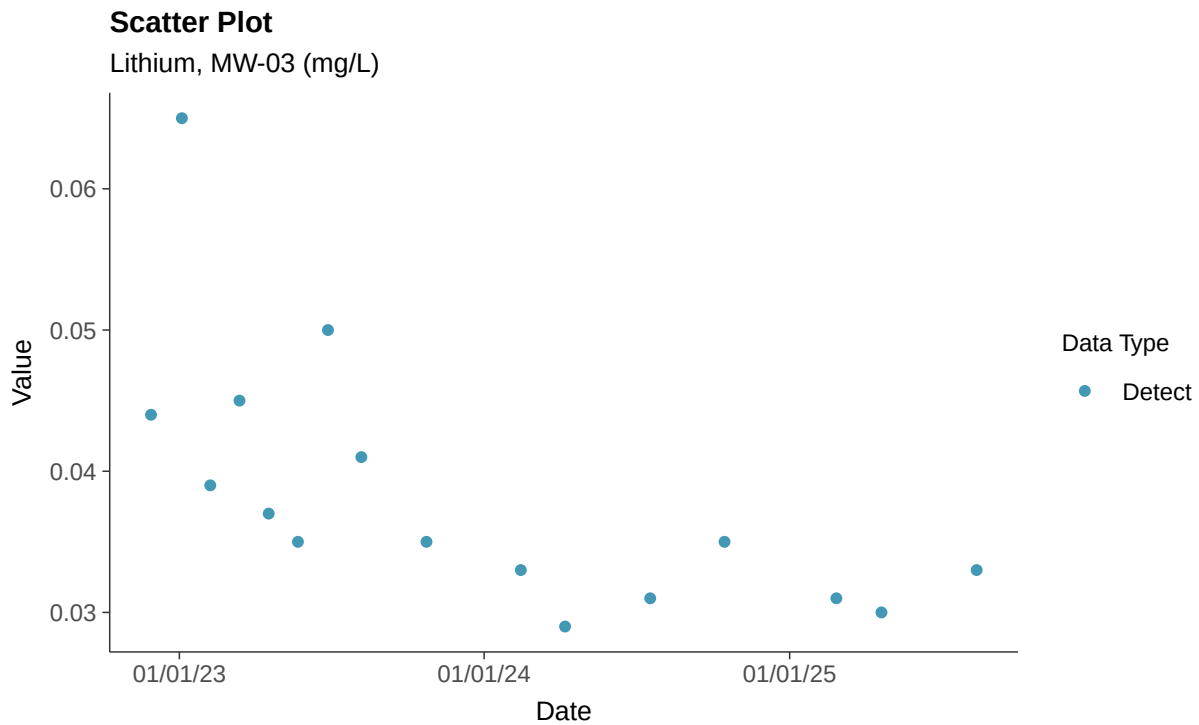
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-03 (mg/L)



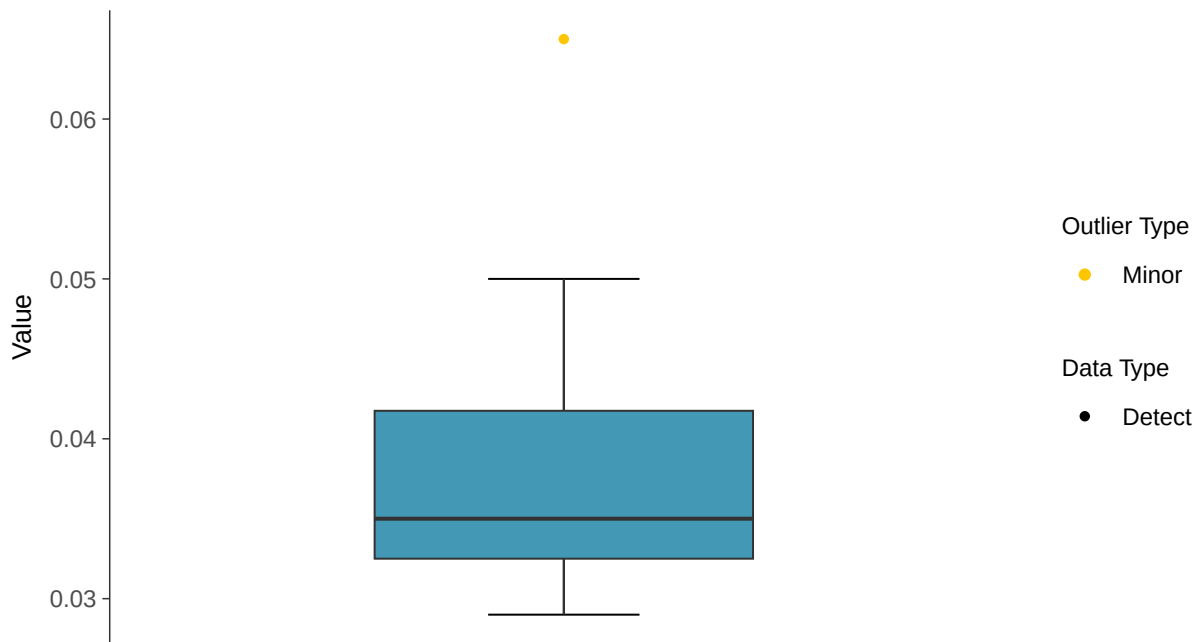
Appendix IV: Lithium, MW-03

ID: 13_2_4_116



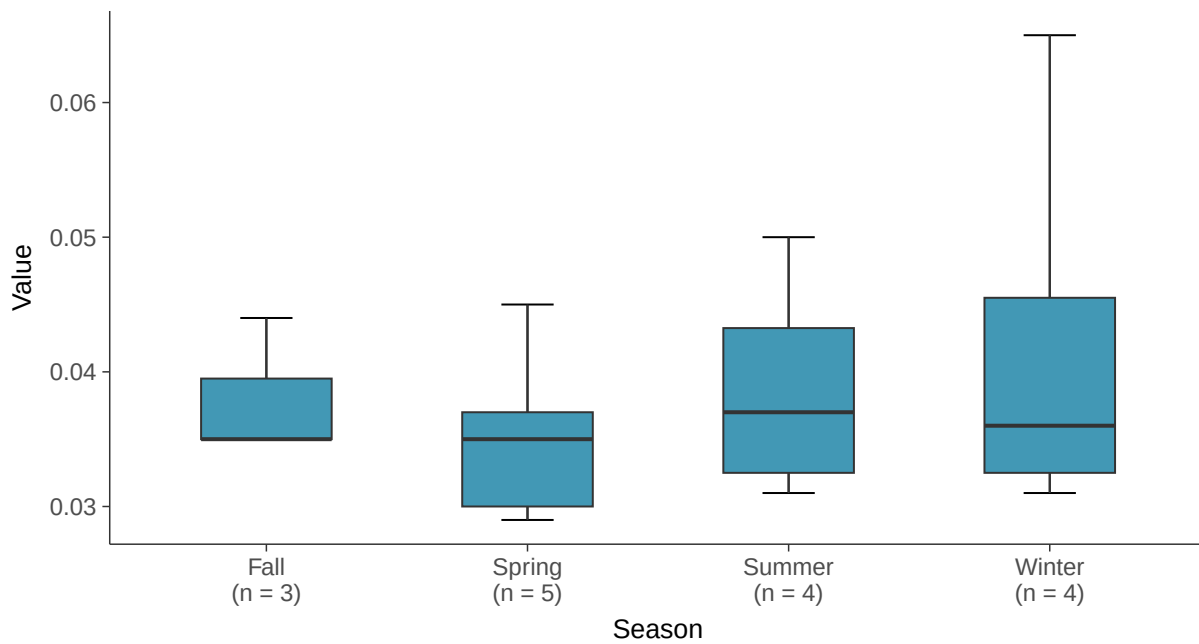
Boxplot

Lithium, MW-03 (mg/L)



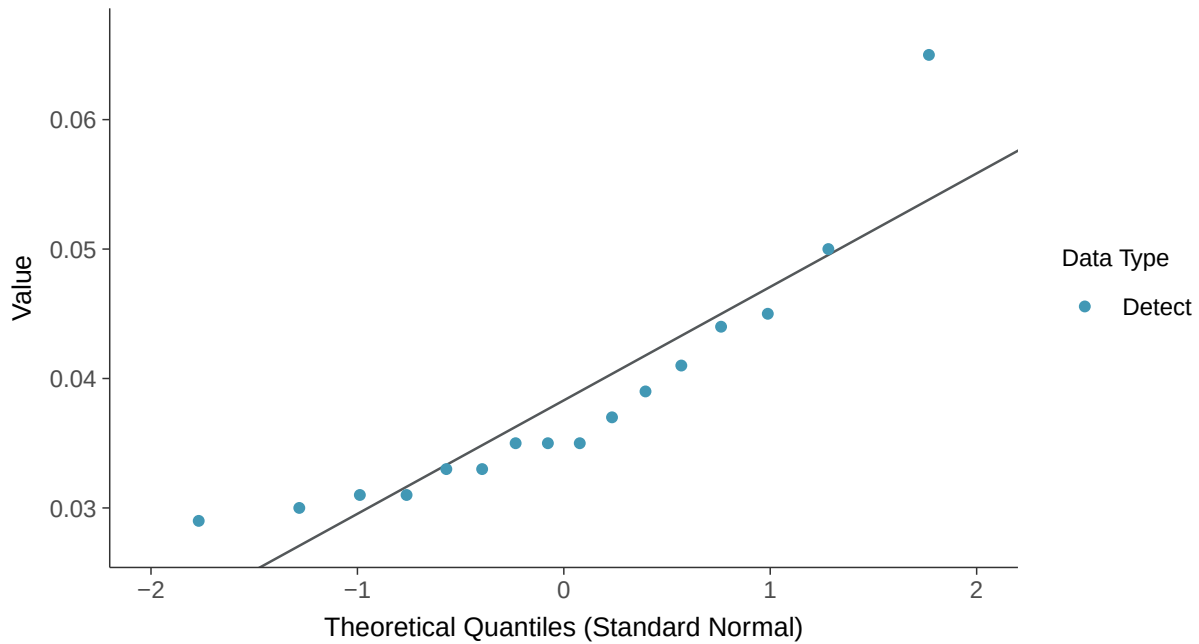
Boxplot by Season

Lithium, MW-03 (mg/L)



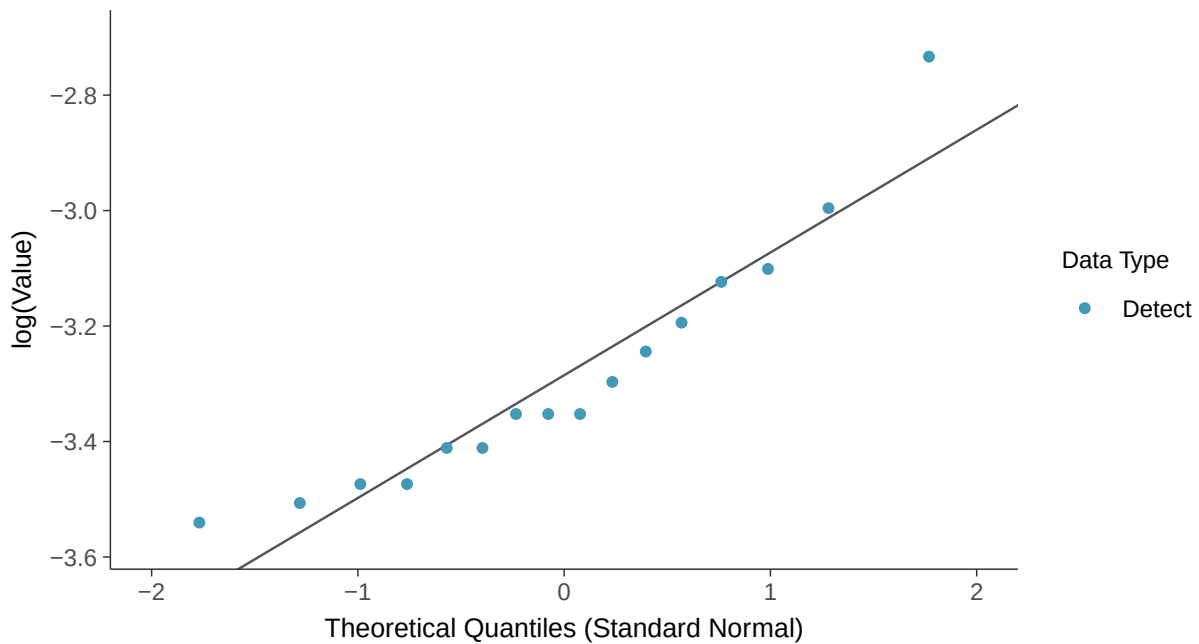
Normal Q-Q plot

Lithium, MW-03 (mg/L)



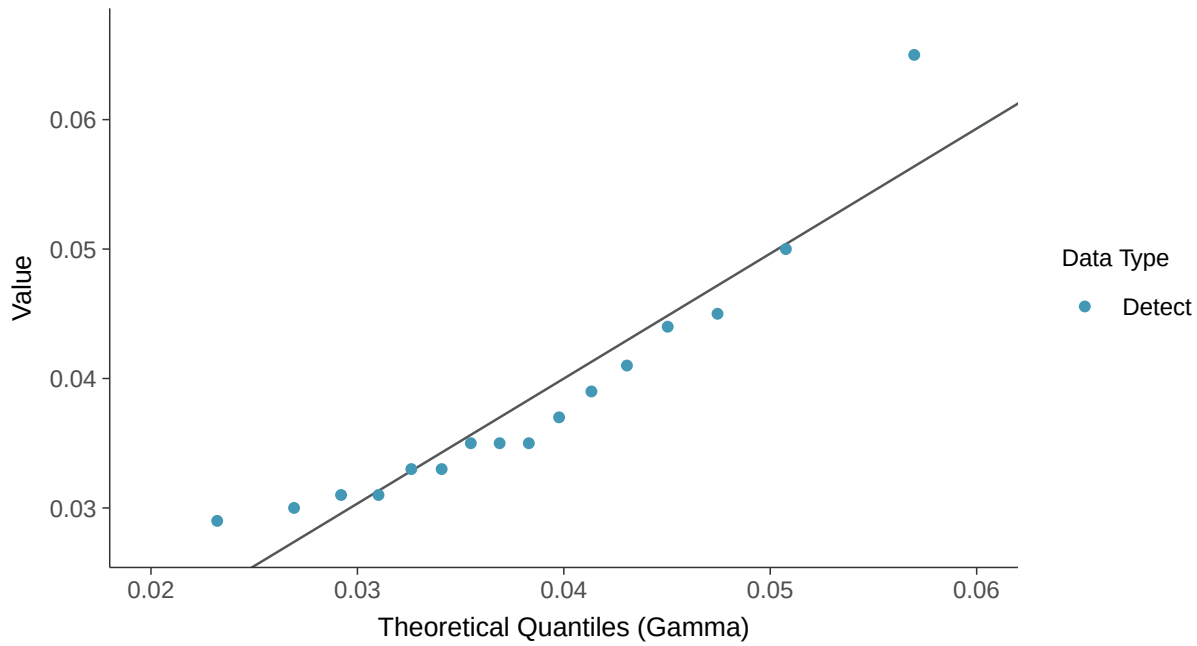
Lognormal Q-Q plot

Lithium, MW-03 (mg/L)



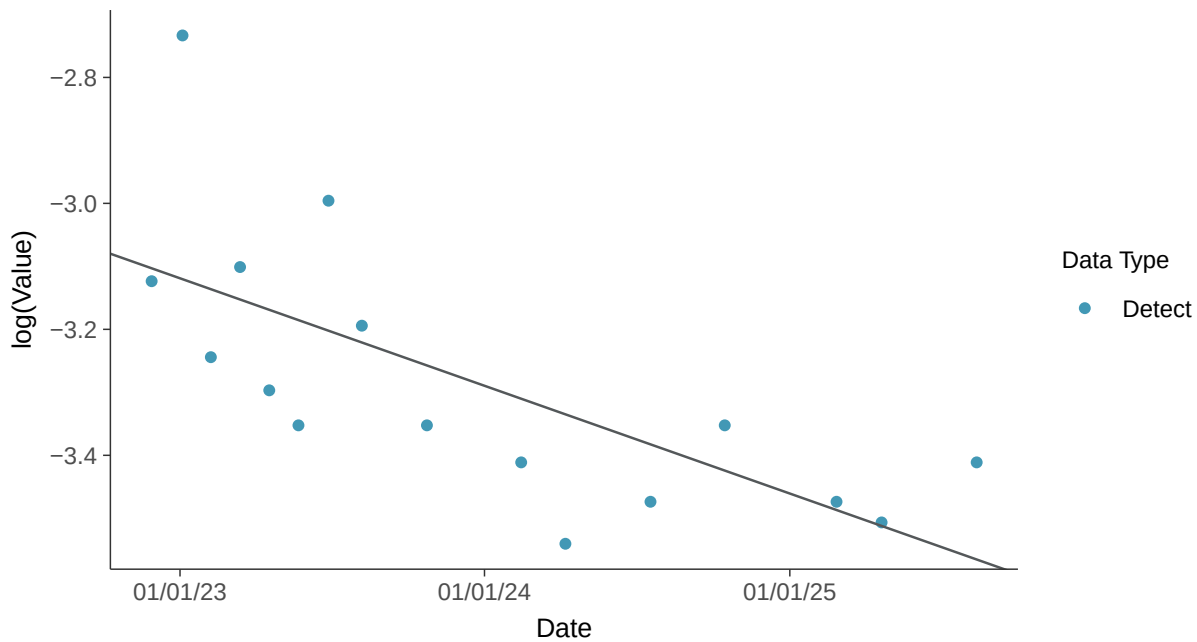
Gamma Q-Q plot

Lithium, MW-03 (mg/L)



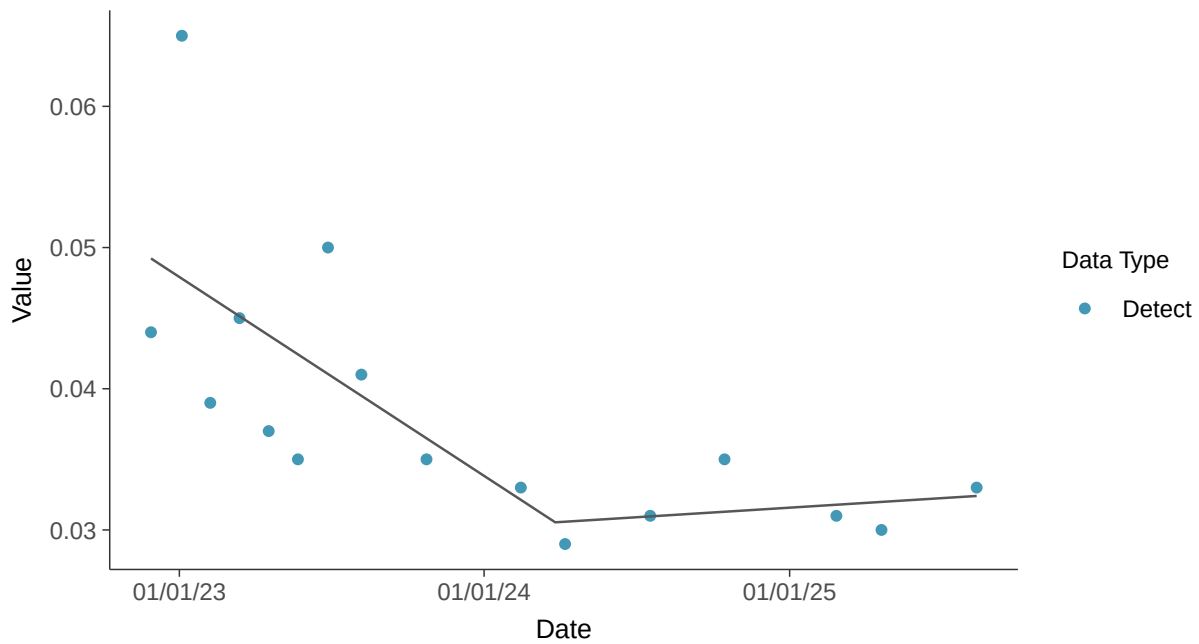
Trend Regression: Lognormal MLE

Lithium, MW-03 (mg/L)



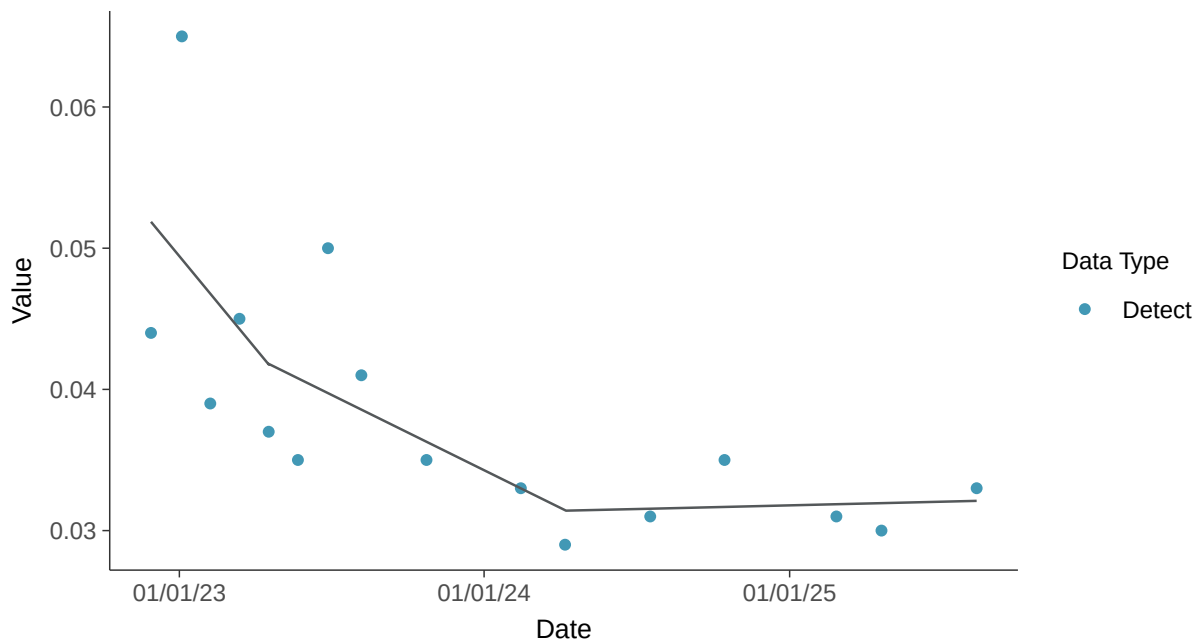
Trend Regression: Piecewise Linear-Linear

Lithium, MW-03 (mg/L)



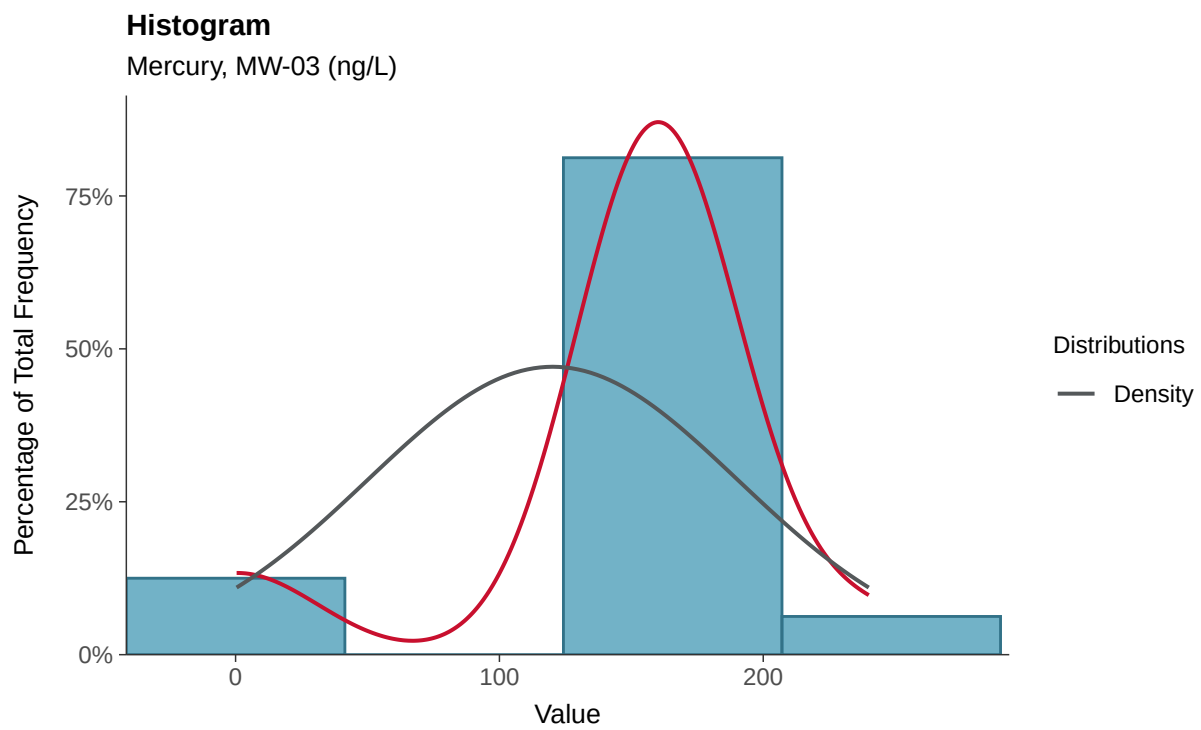
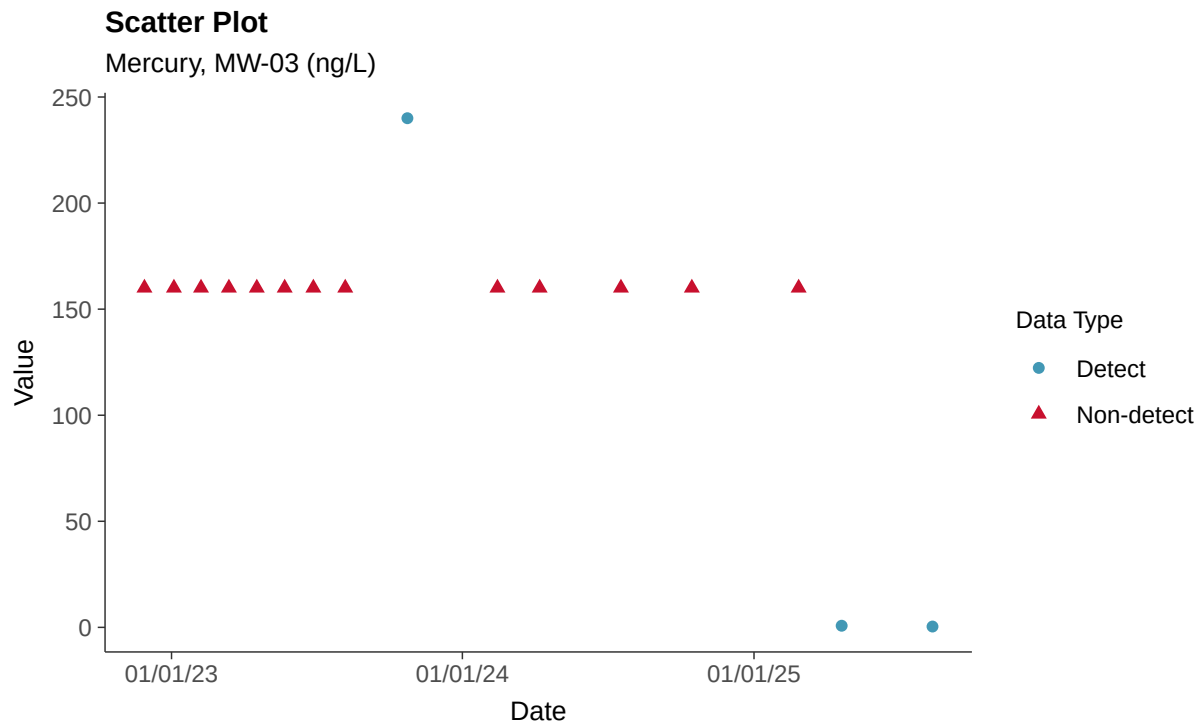
Trend Regression: Piecewise Linear-Linear-Linear

Lithium, MW-03 (mg/L)



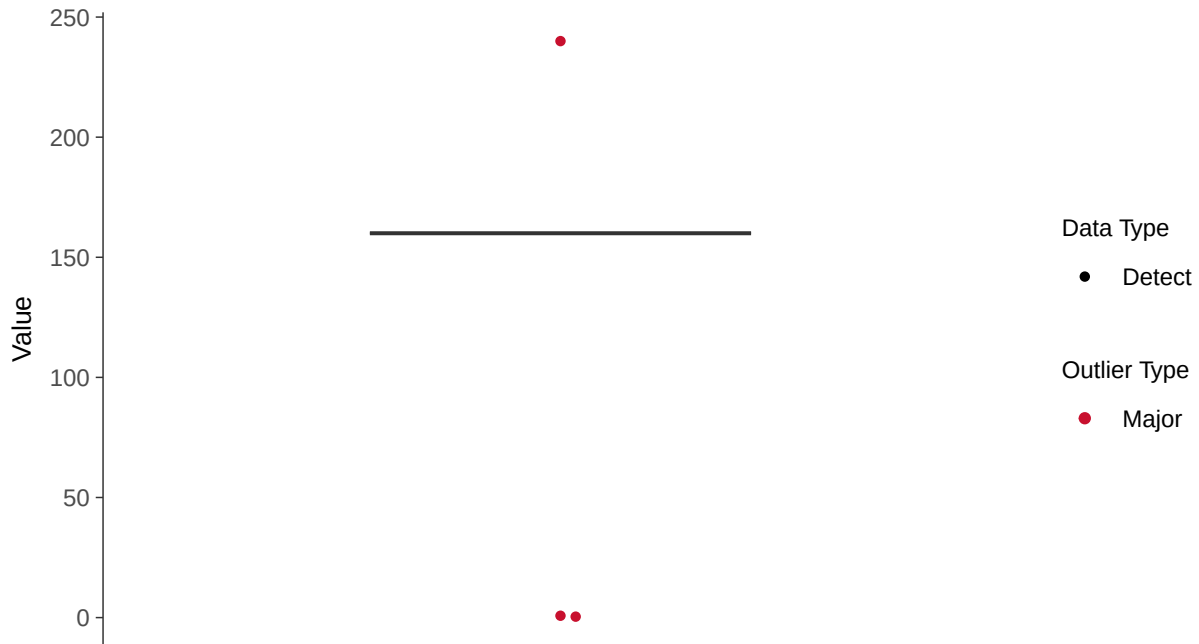
Appendix IV: Mercury, MW-03

ID: 13_2_4_117



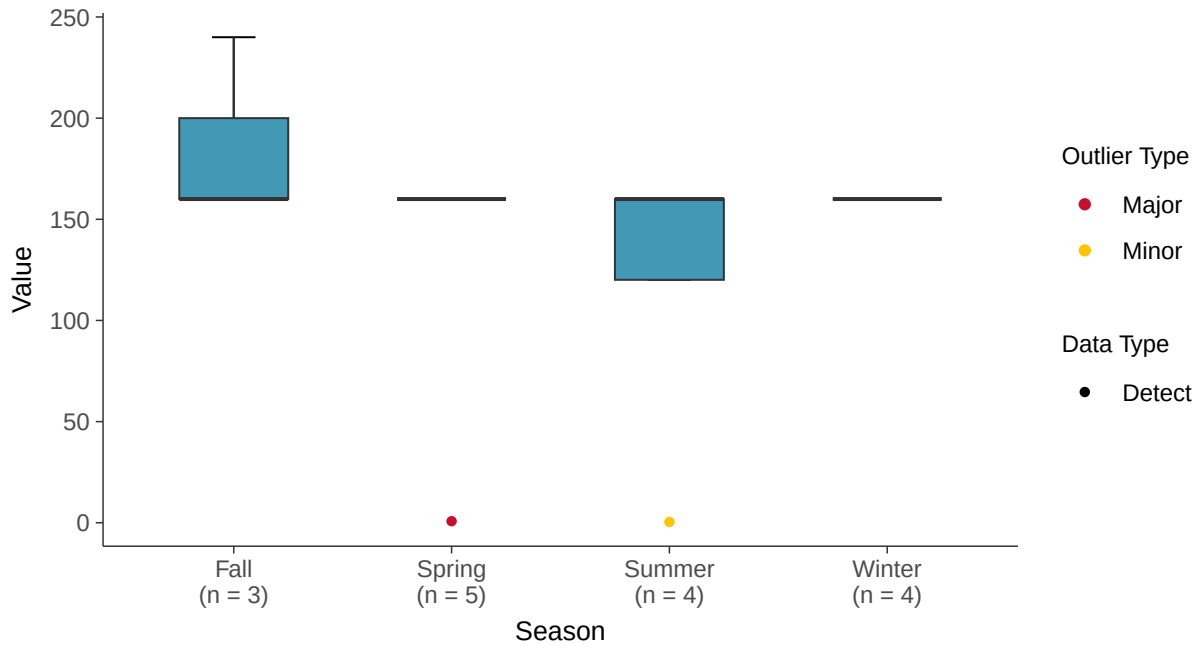
Boxplot

Mercury, MW-03 (ng/L)

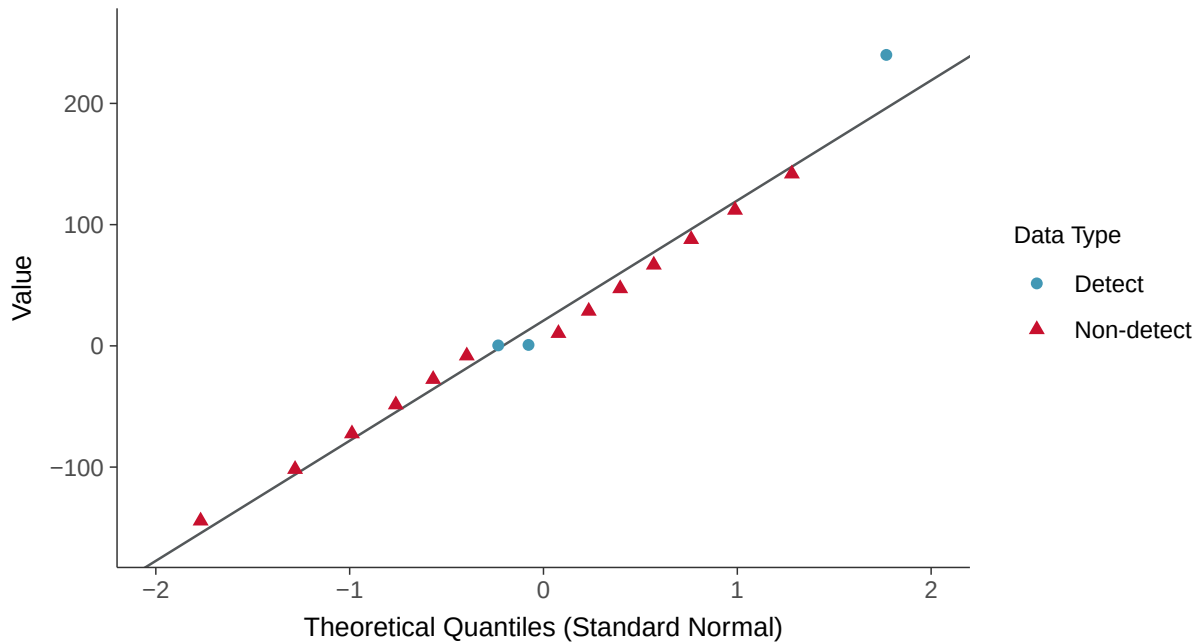


Boxplot by Season

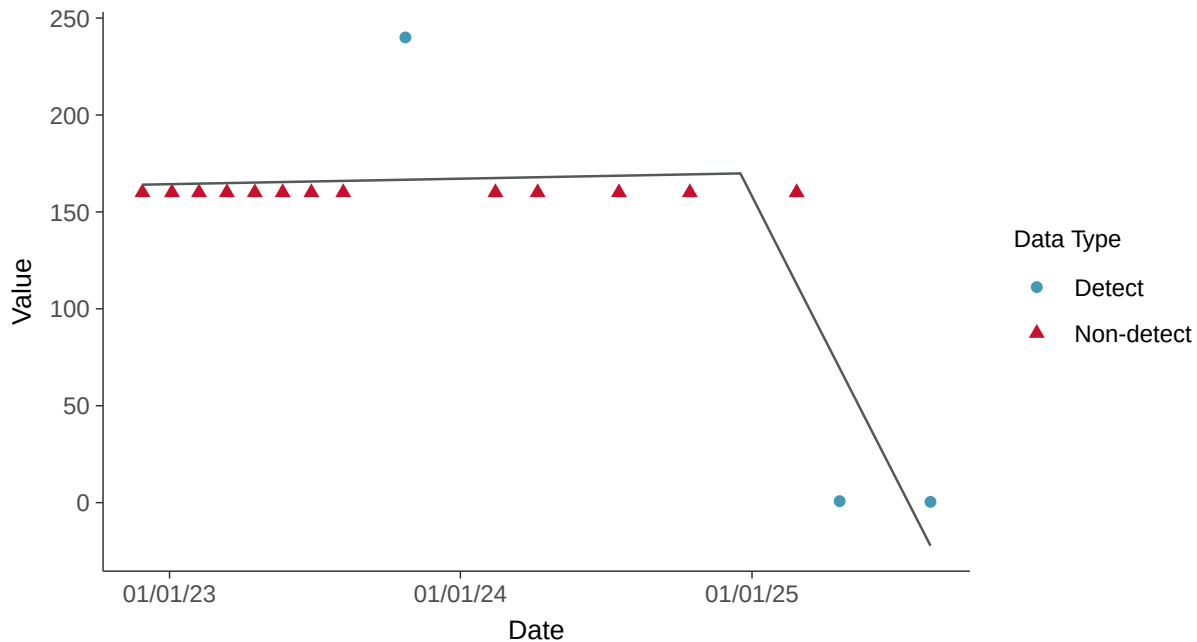
Mercury, MW-03 (ng/L)



Mercury, MW-03 (ng/L)



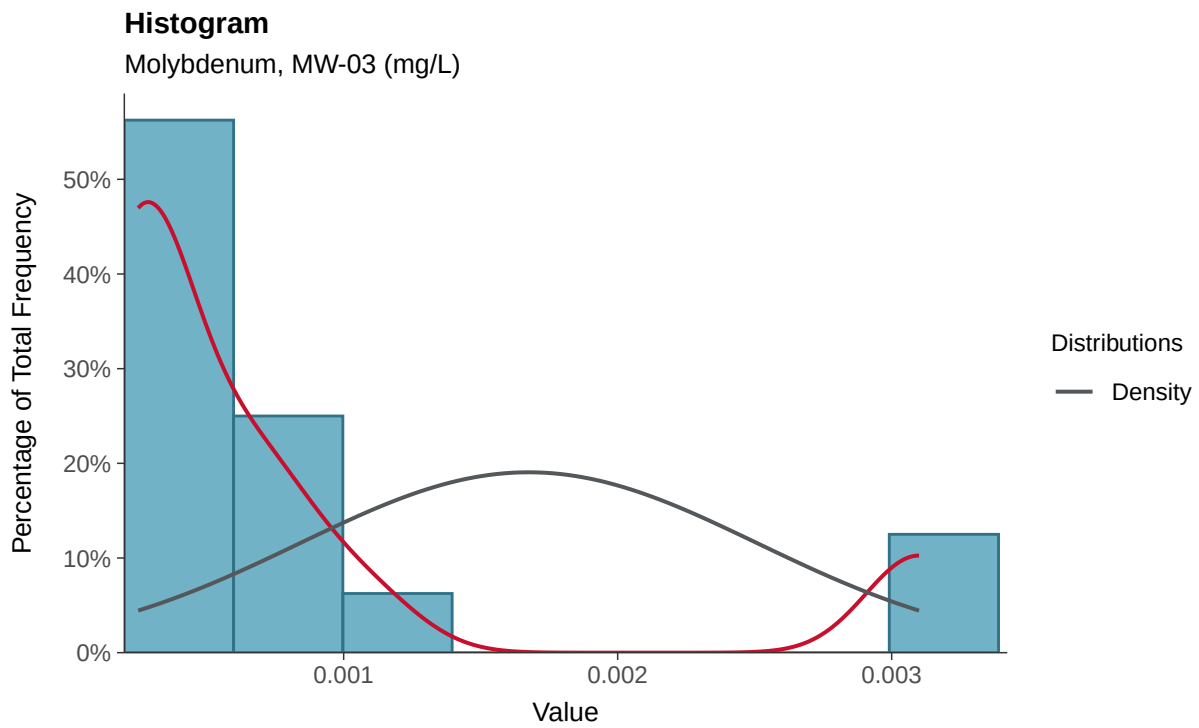
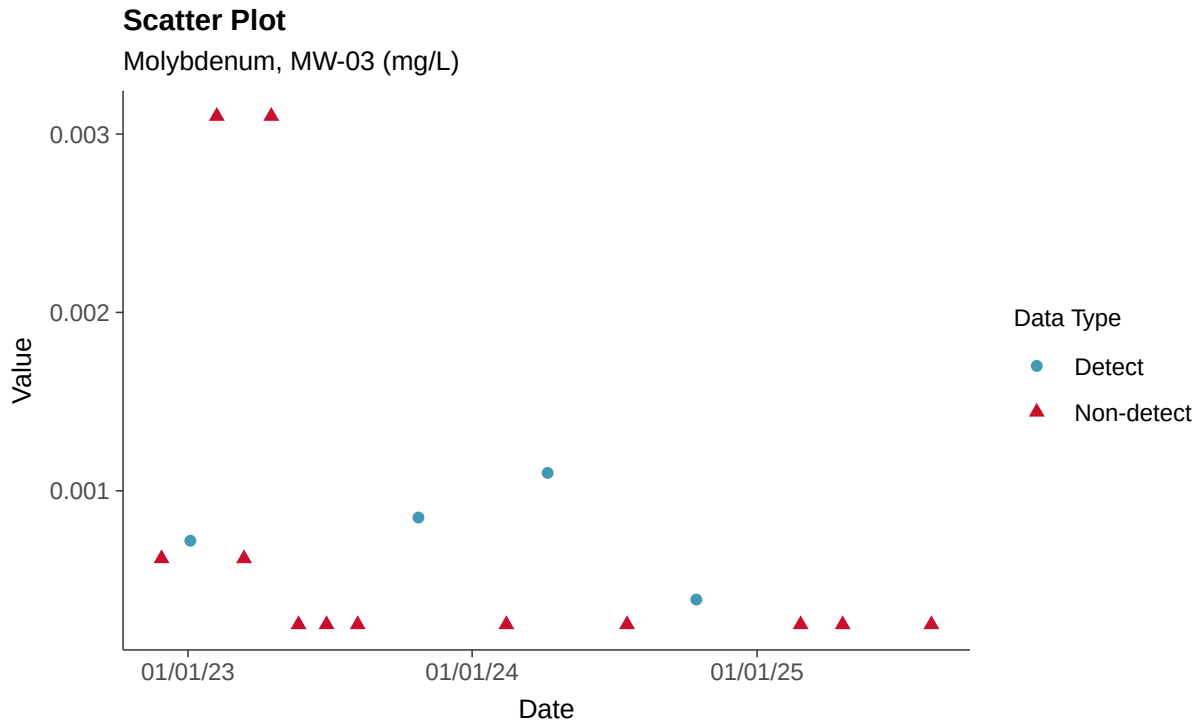
Mercury, MW-03 (ng/L)

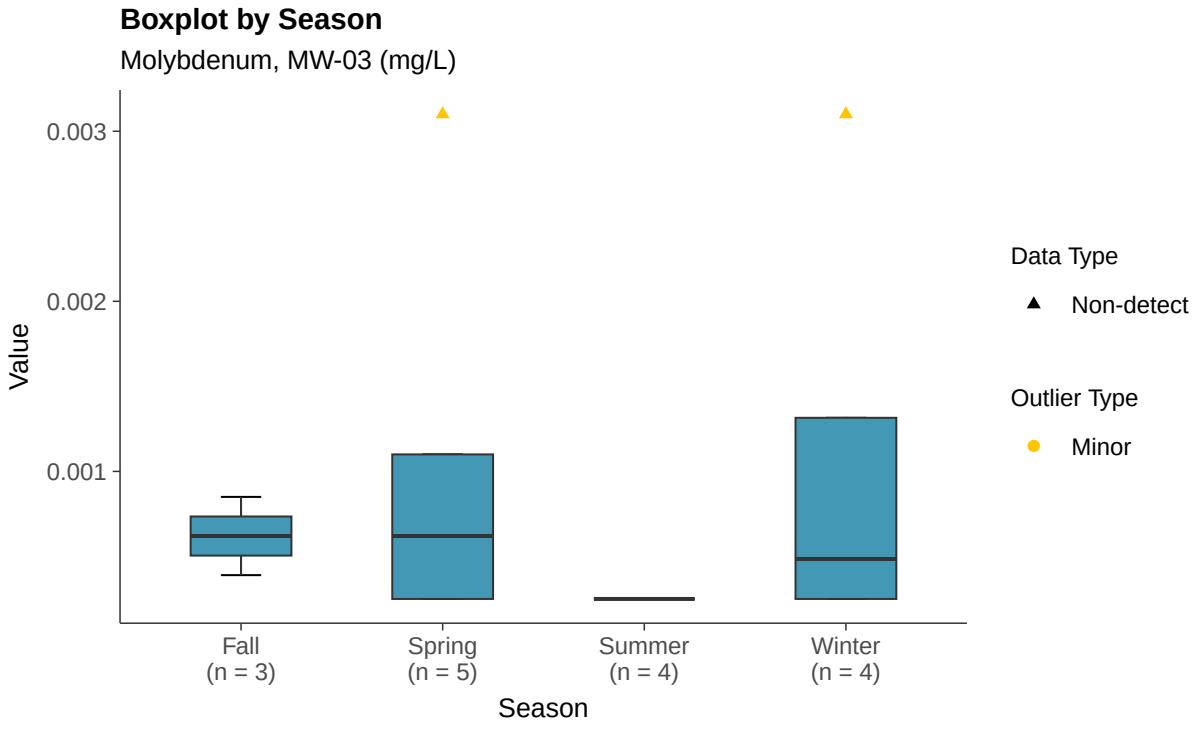
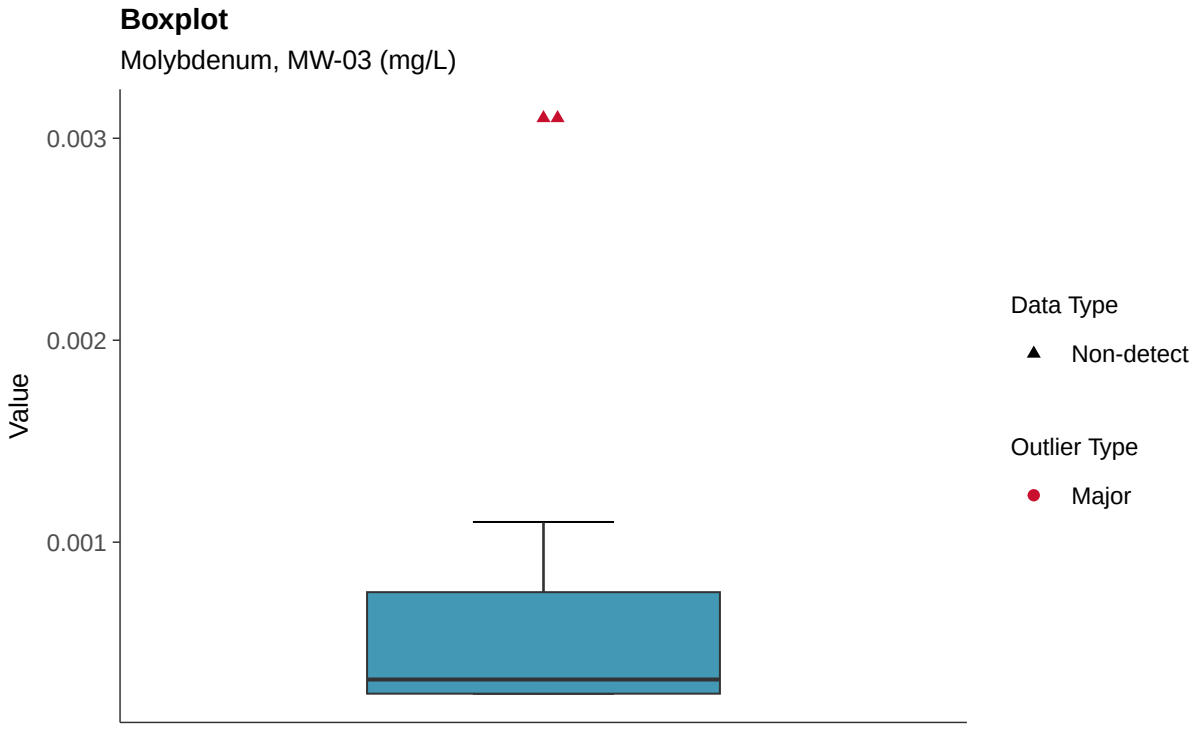




Appendix IV: Molybdenum, MW-03

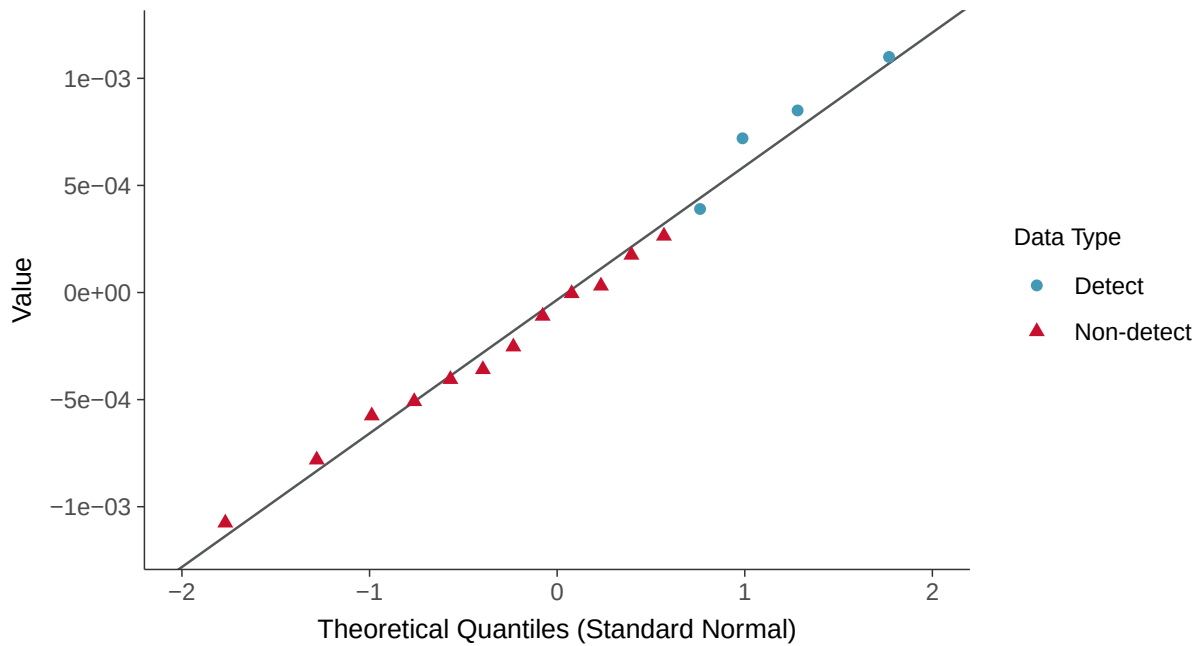
ID: 13_2_4_118





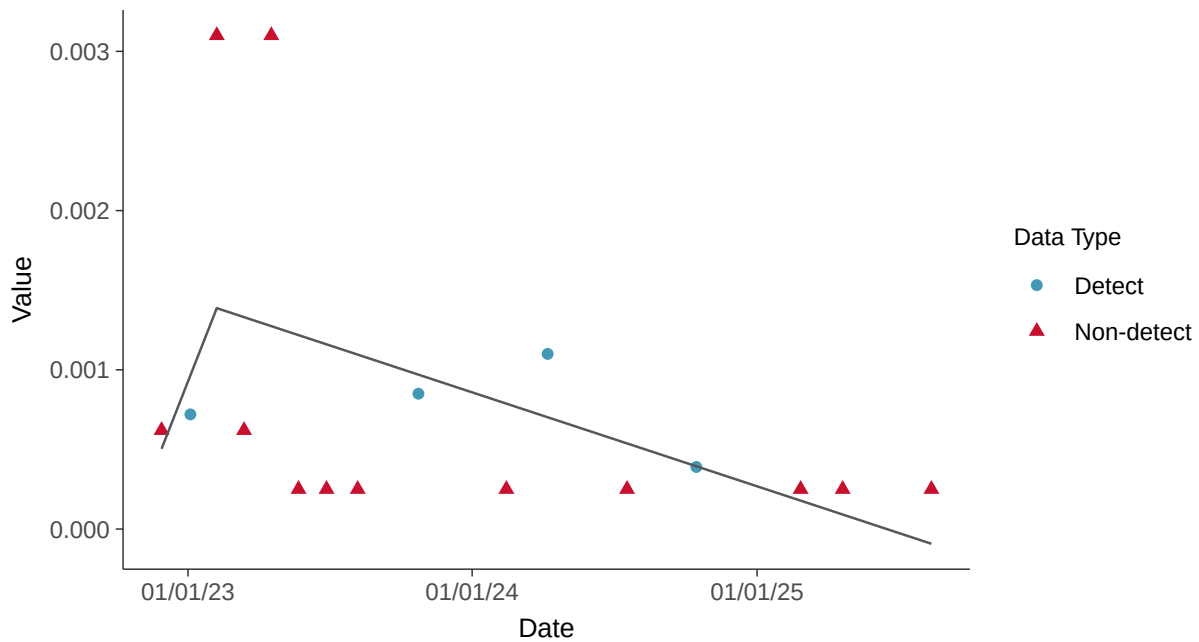
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-03 (mg/L)

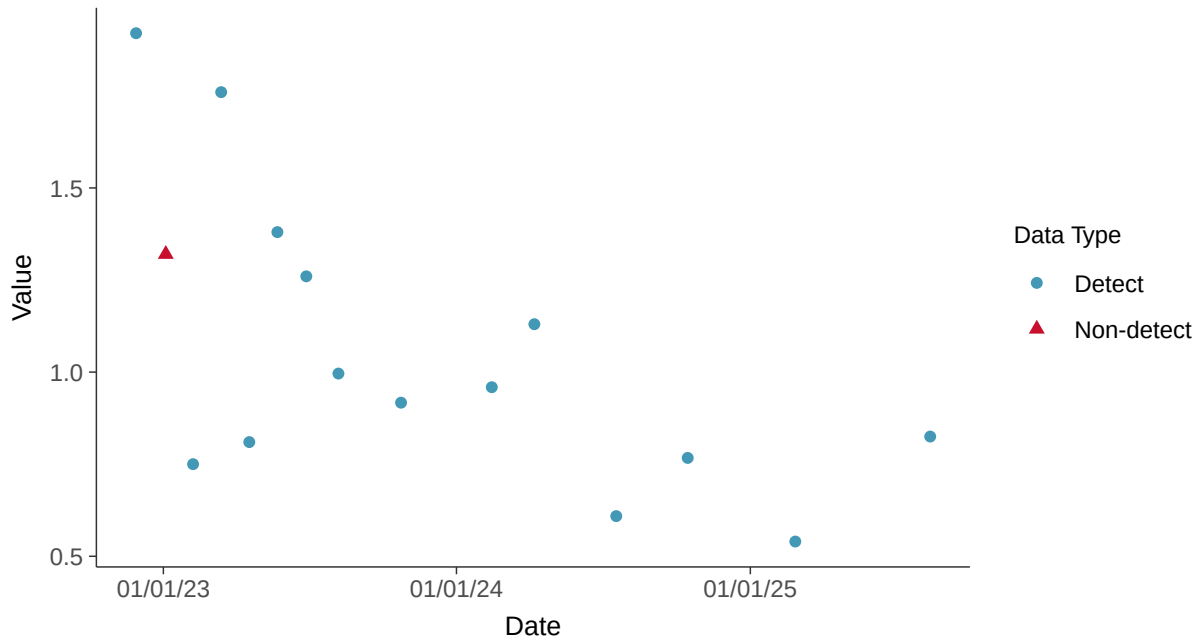


Appendix IV: Radium 226 and 228, MW-03

ID: 13_2_4_121

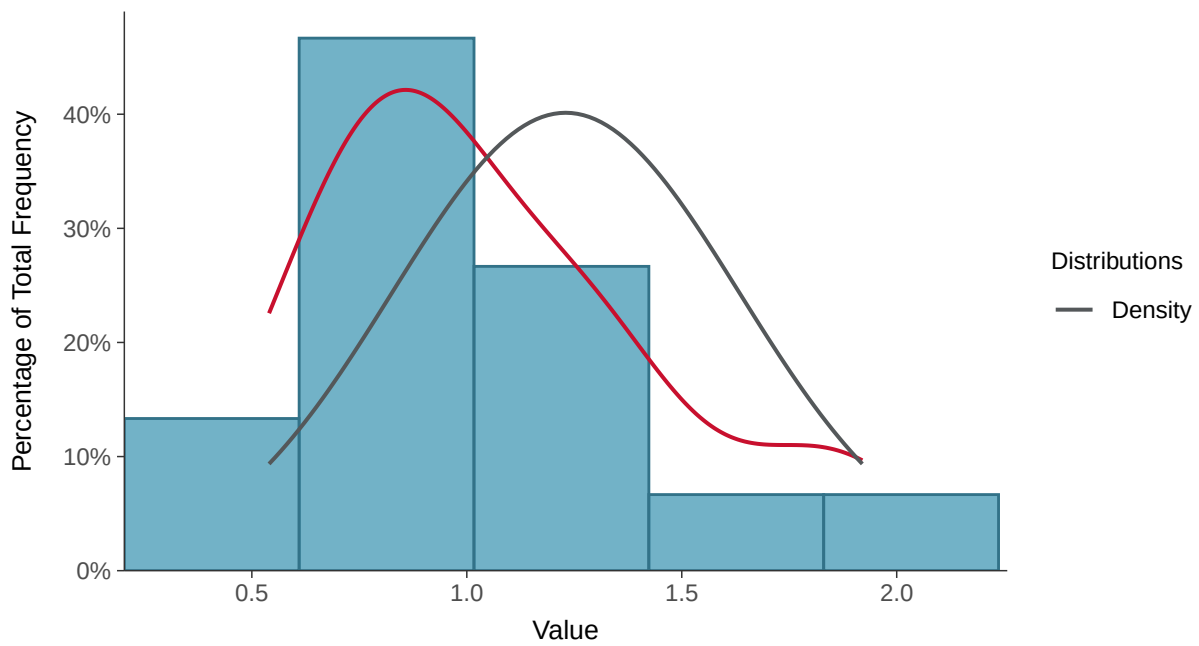
Scatter Plot

Radium 226 and 228, MW-03 (pCi/L)



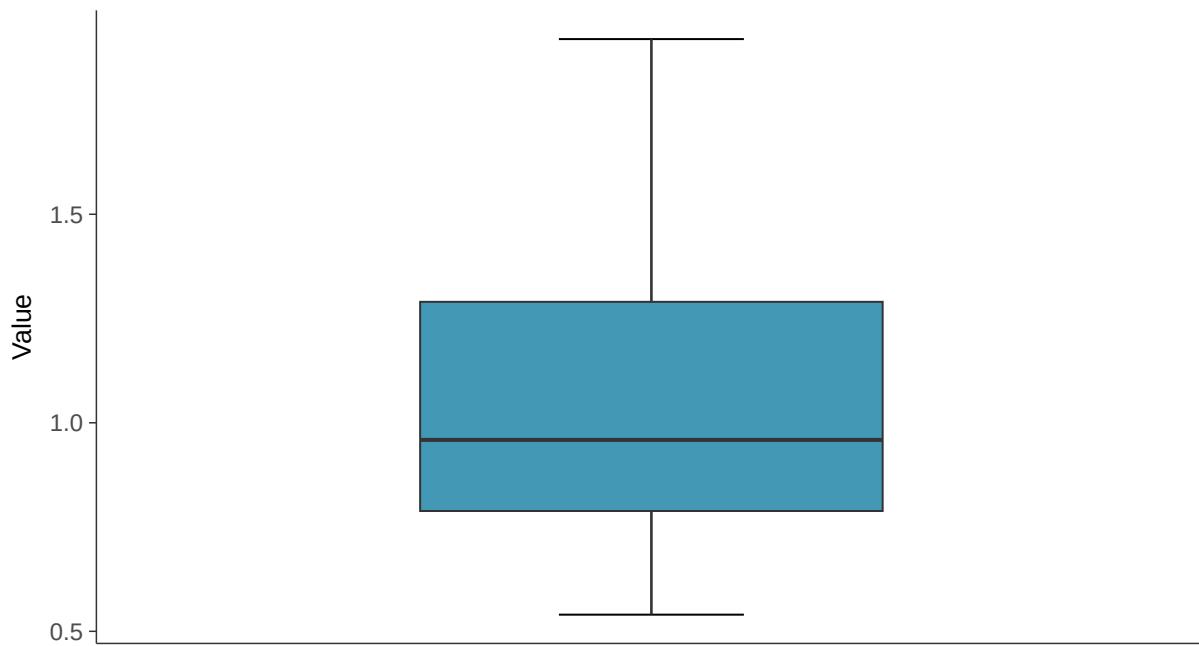
Histogram

Radium 226 and 228, MW-03 (pCi/L)



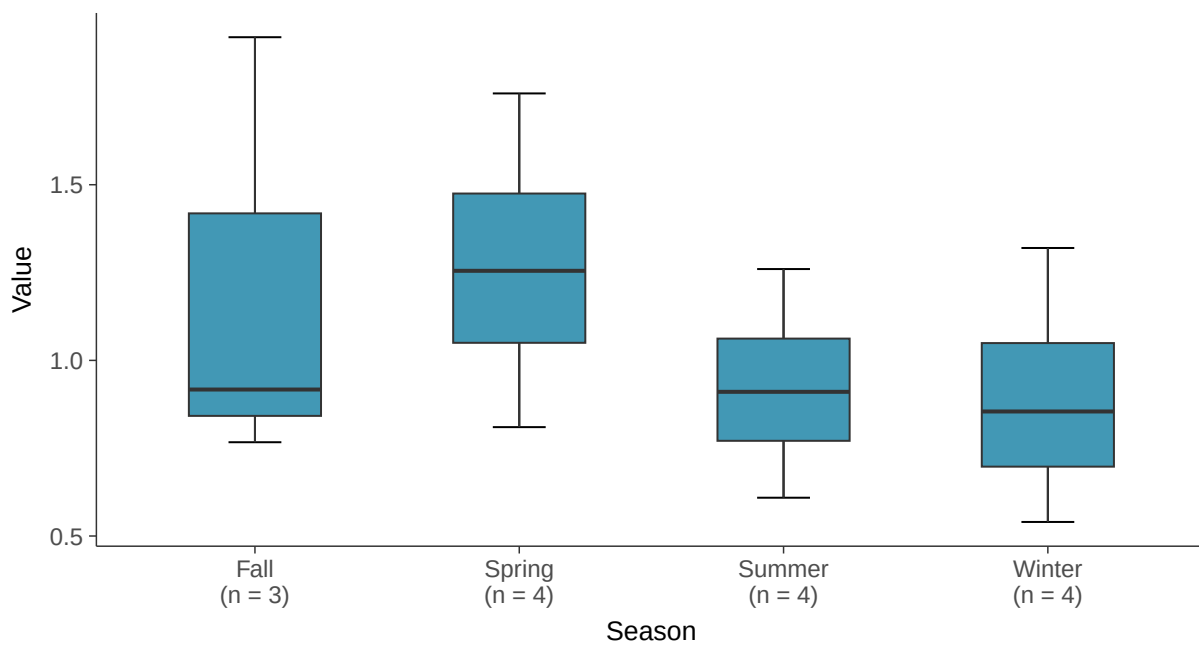
Boxplot

Radium 226 and 228, MW-03 (pCi/L)



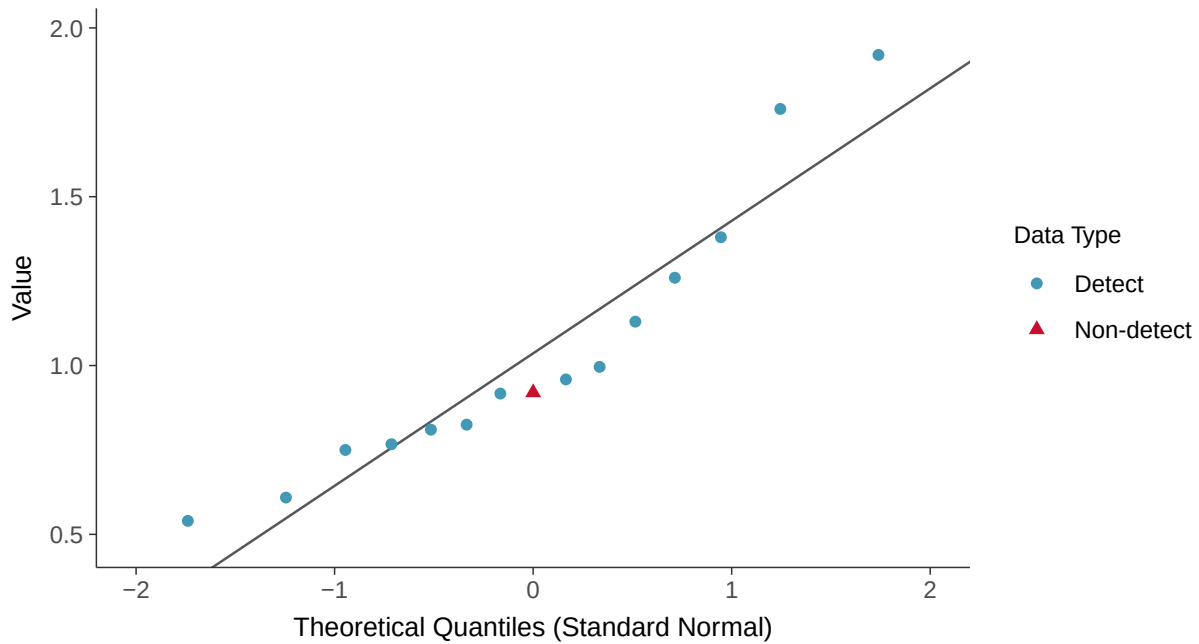
Boxplot by Season

Radium 226 and 228, MW-03 (pCi/L)



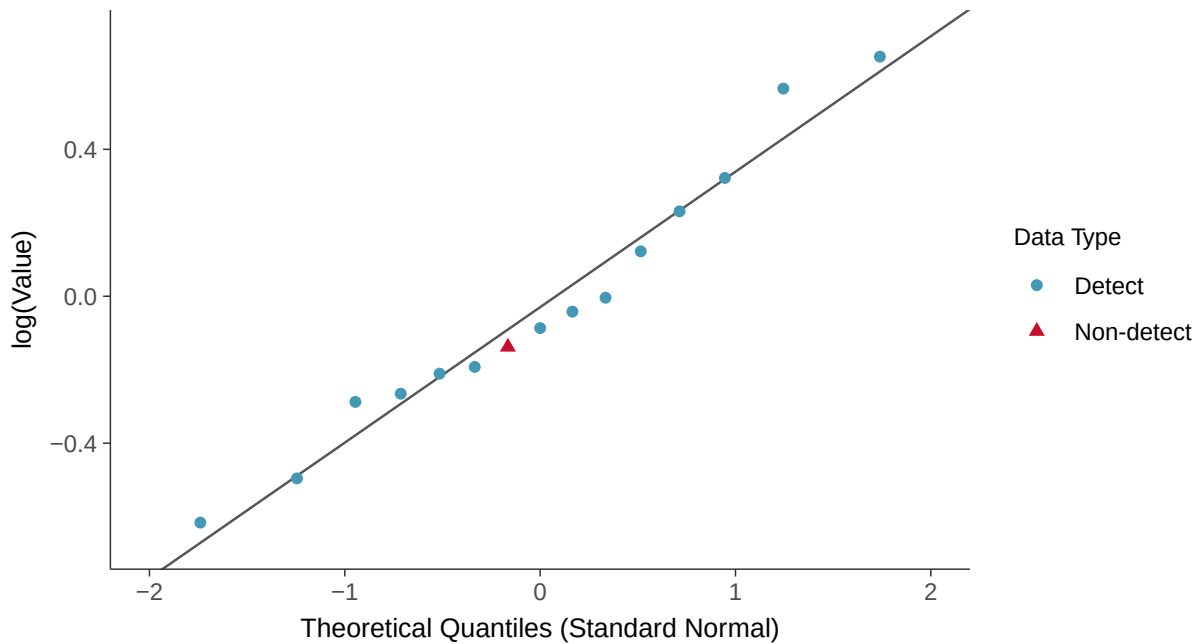
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)

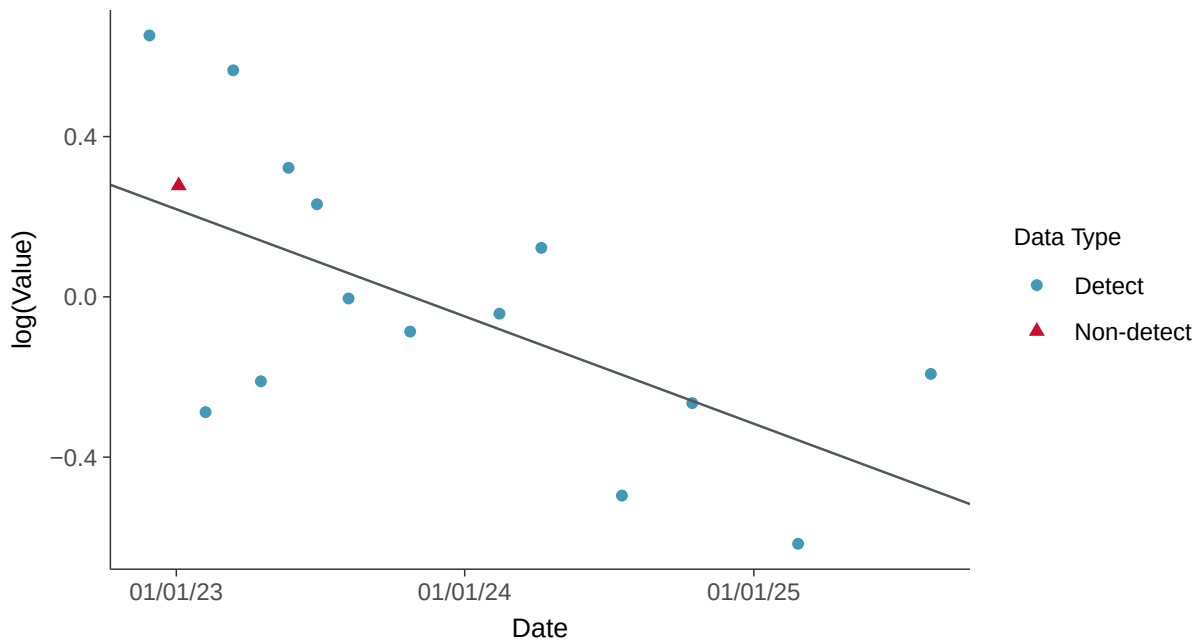
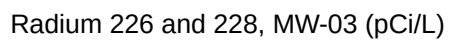


Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)

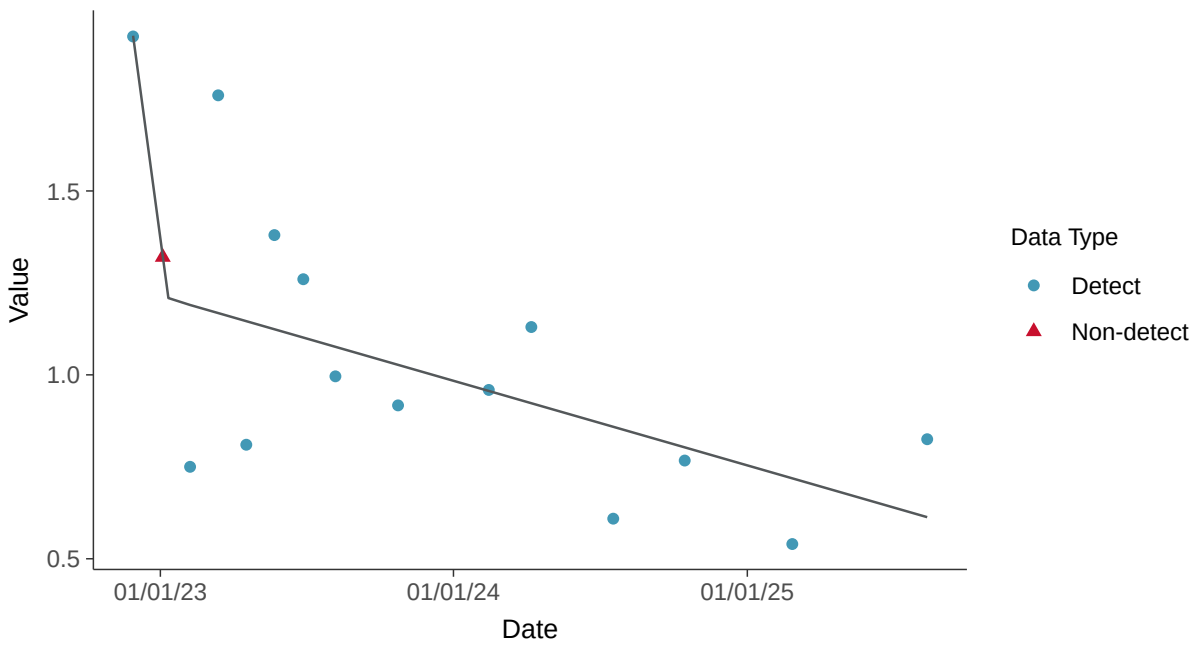


Radium 226 and 228, MW-03 (pCi/L)



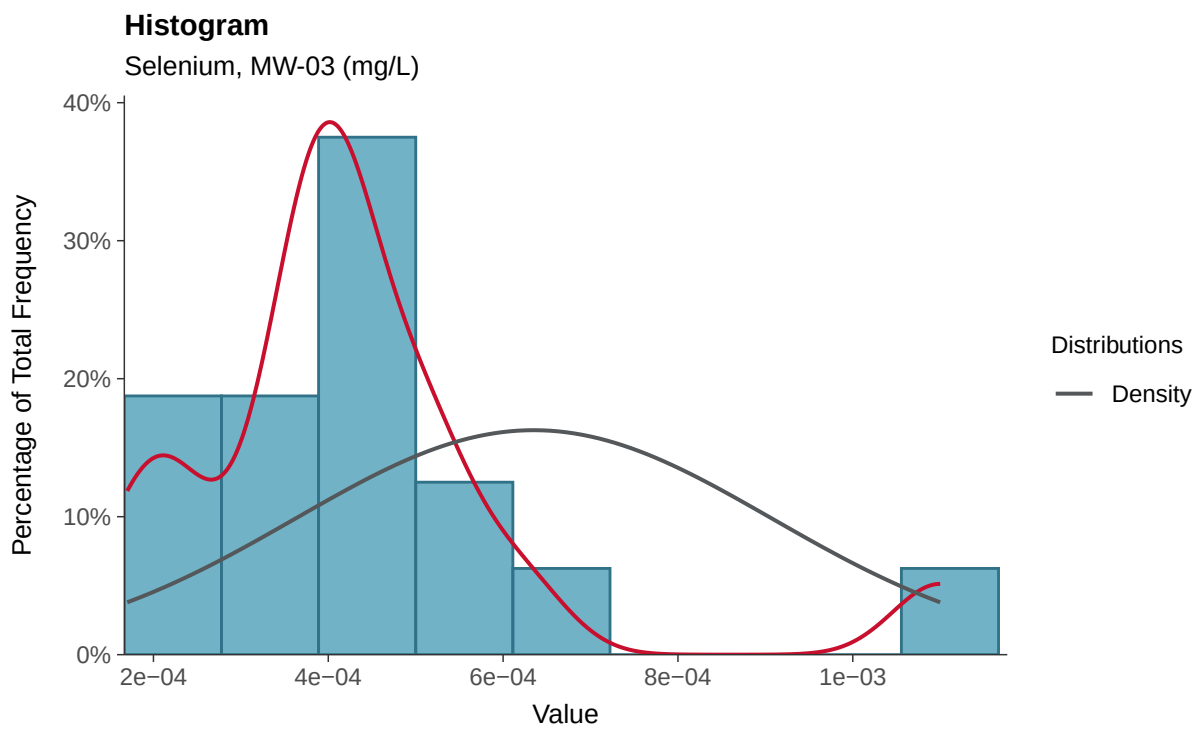
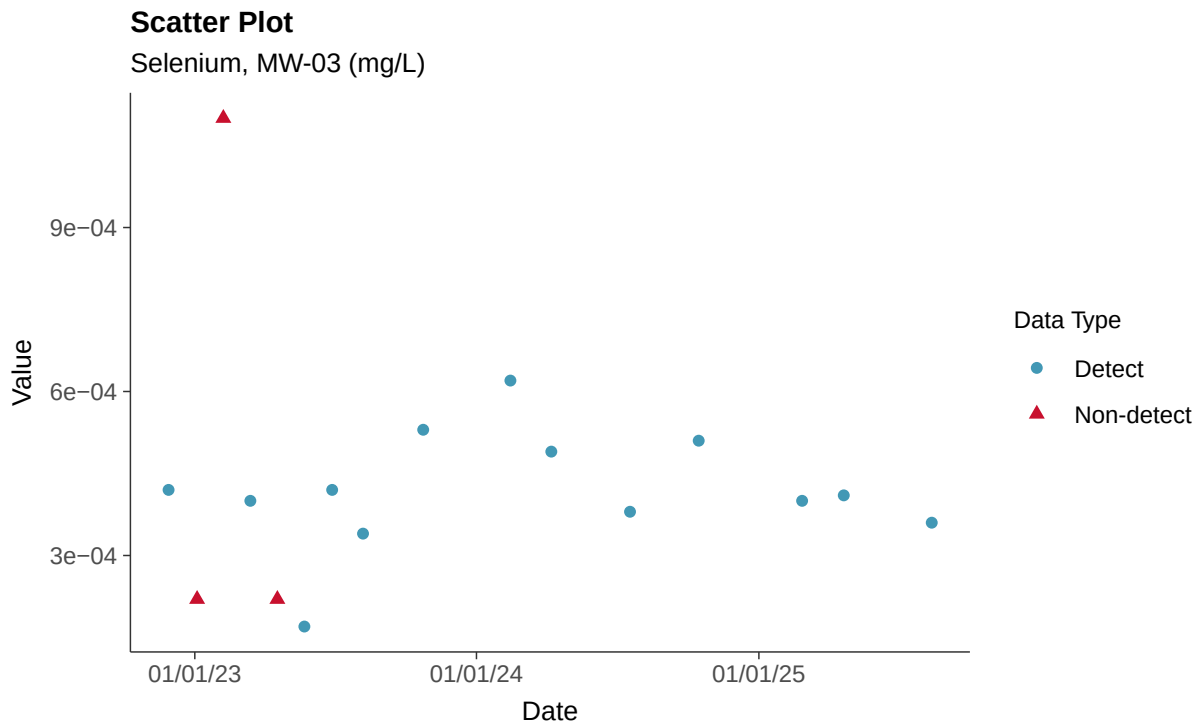


Trend Regression: Piecewise Linear-Linear
Radium 226 and 228, MW-03 (pCi/L)



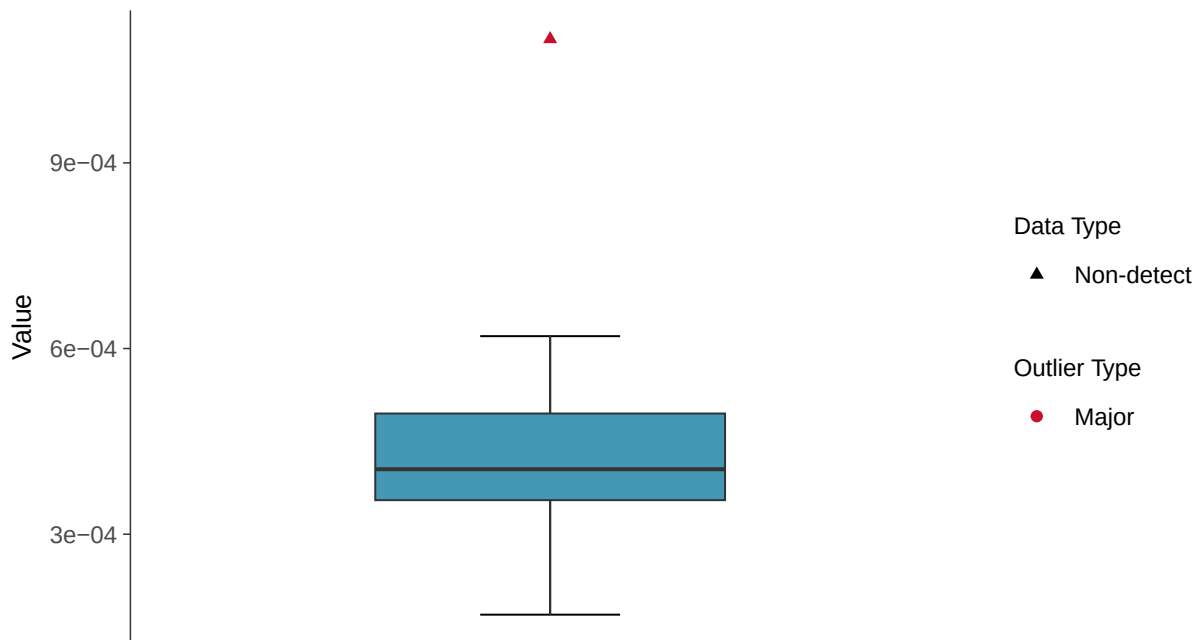
Appendix IV: Selenium, MW-03

ID: 13_2_4_122



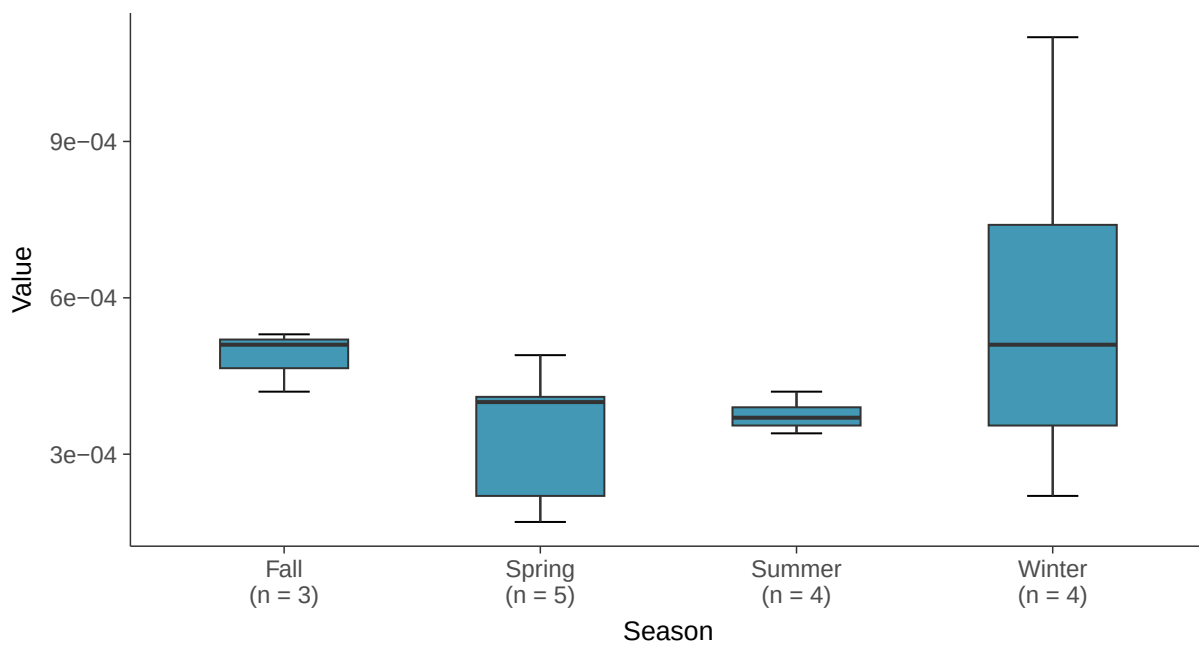
Boxplot

Selenium, MW-03 (mg/L)



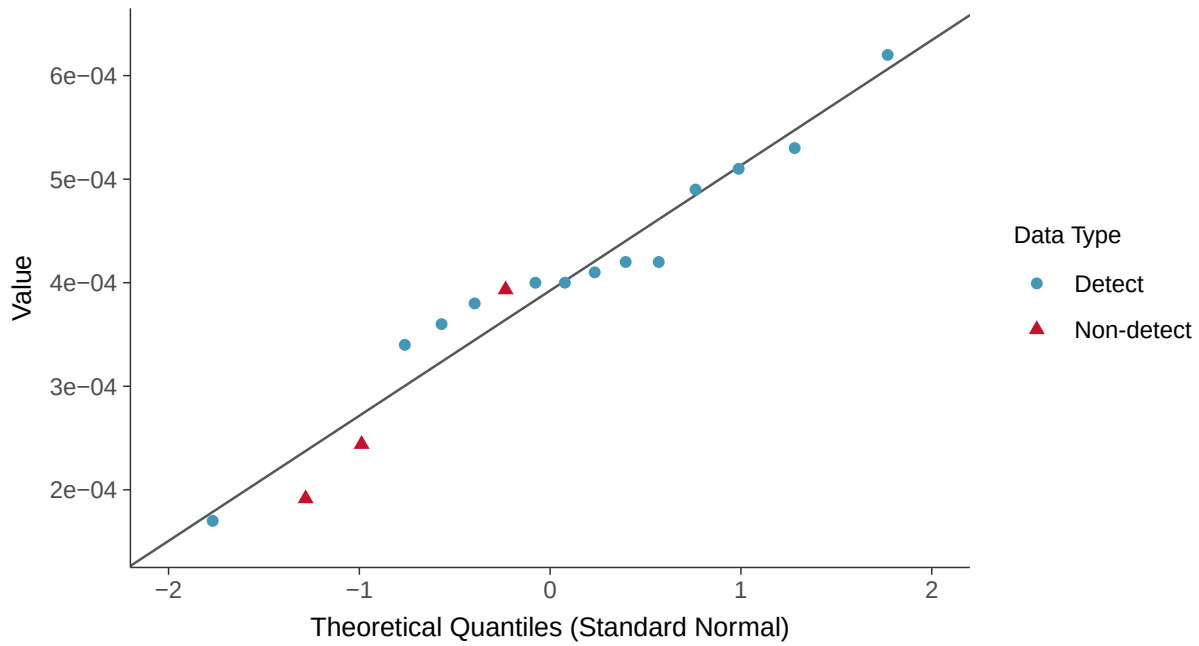
Boxplot by Season

Selenium, MW-03 (mg/L)



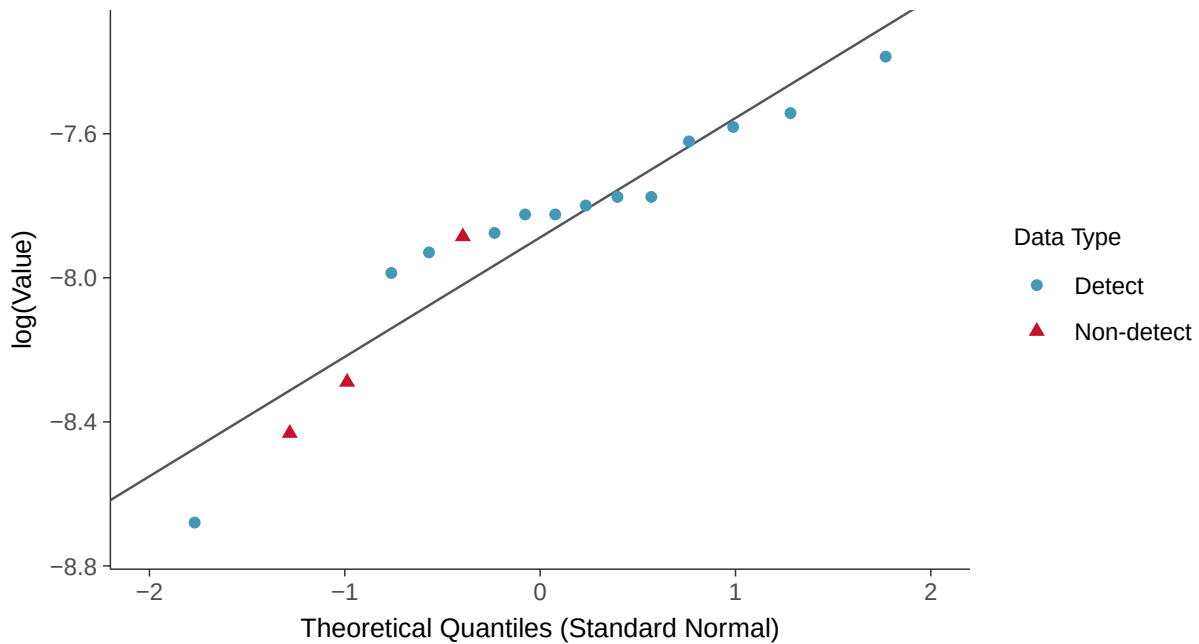
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



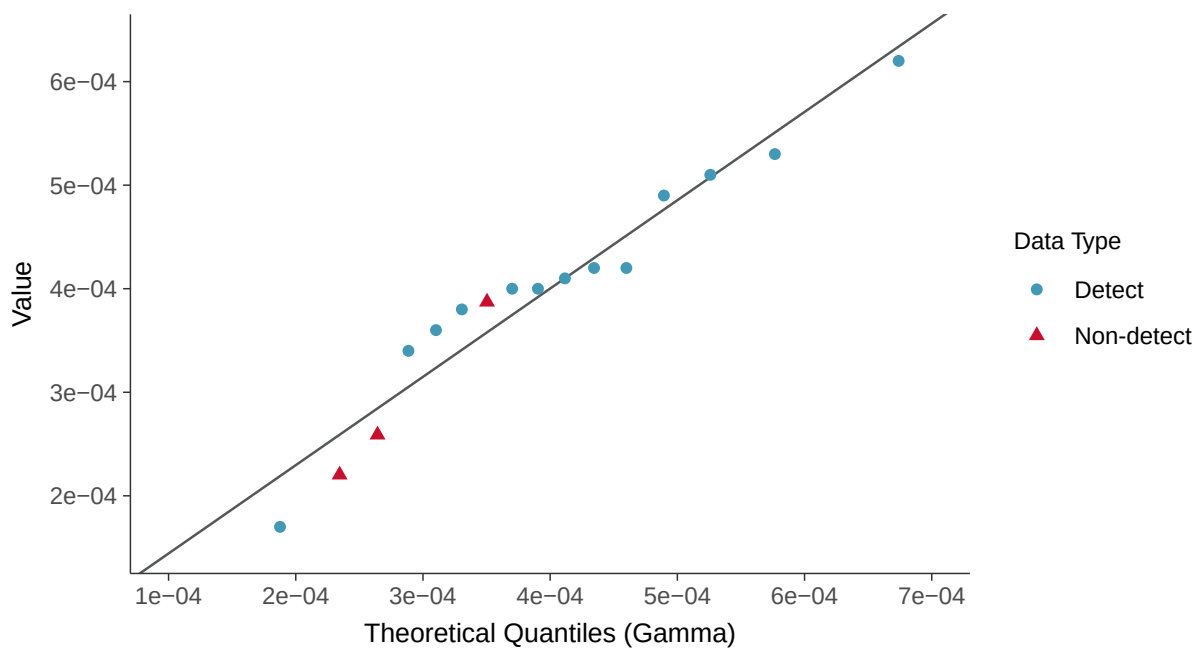
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



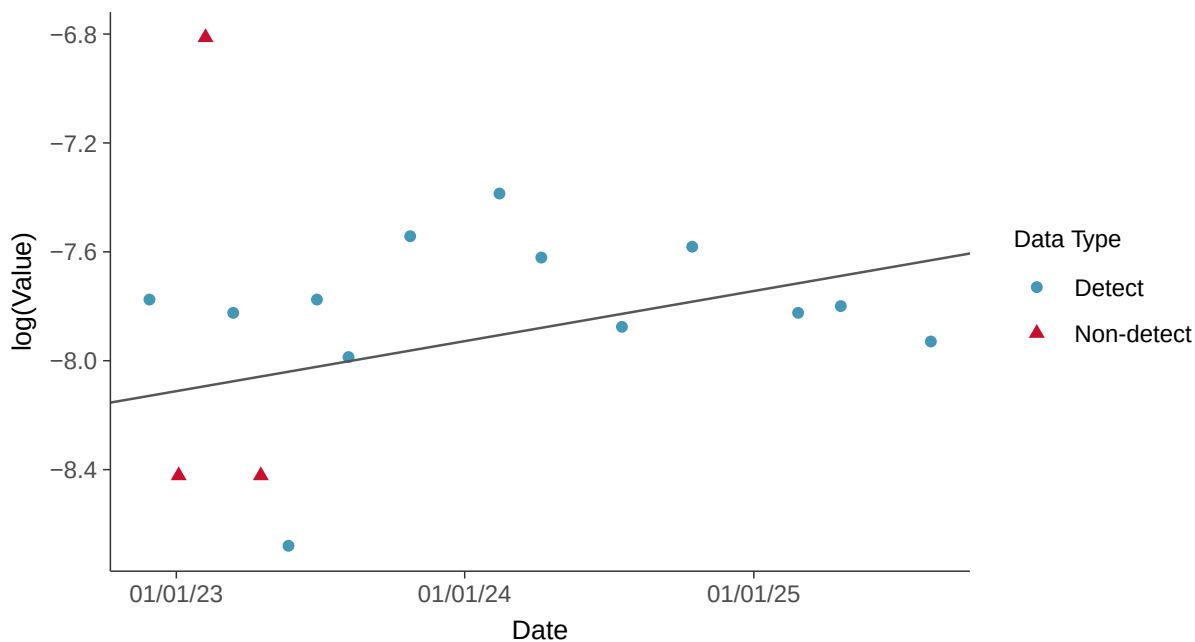
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



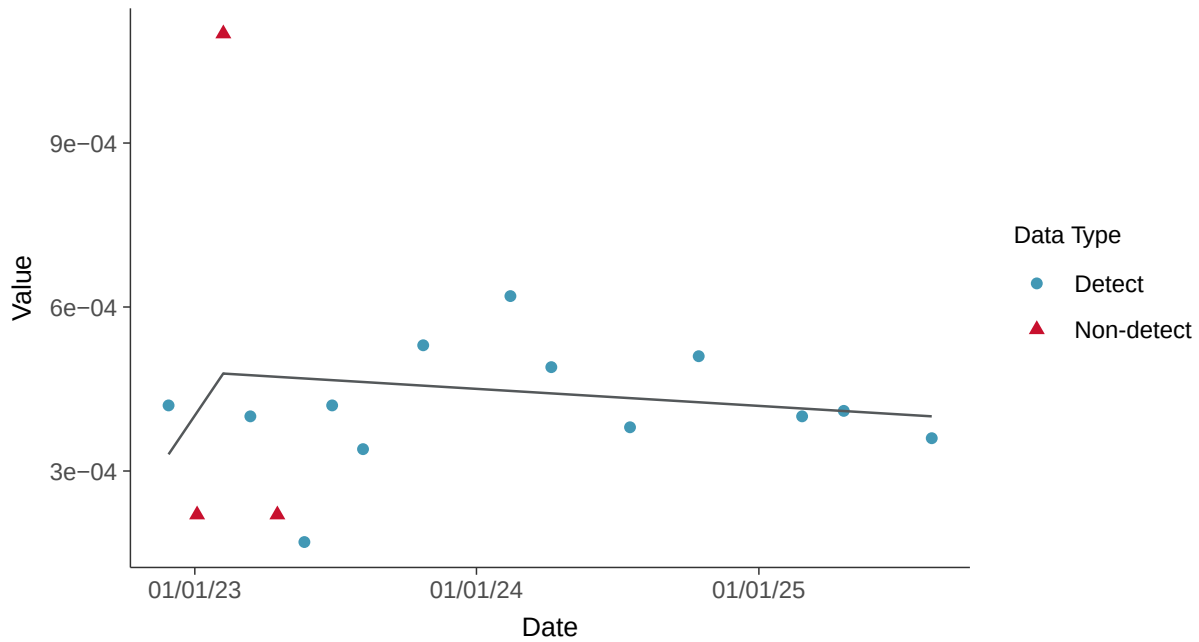
Trend Regression: Lognormal MLE

Selenium, MW-03 (mg/L)



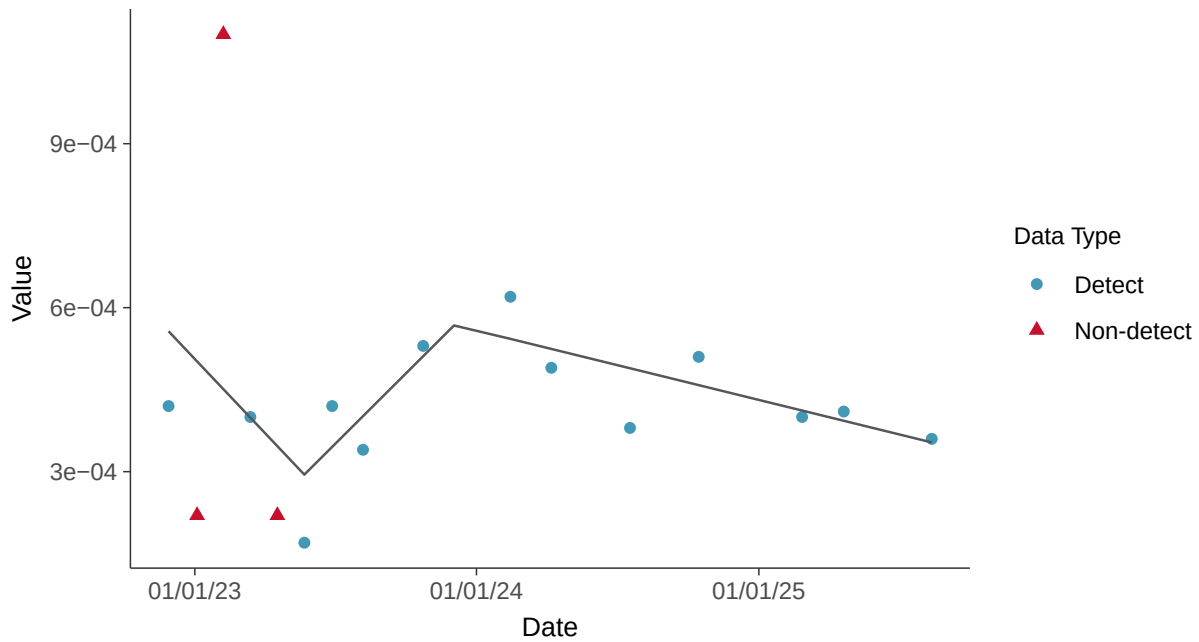
Trend Regression: Piecewise Linear-Linear

Selenium, MW-03 (mg/L)



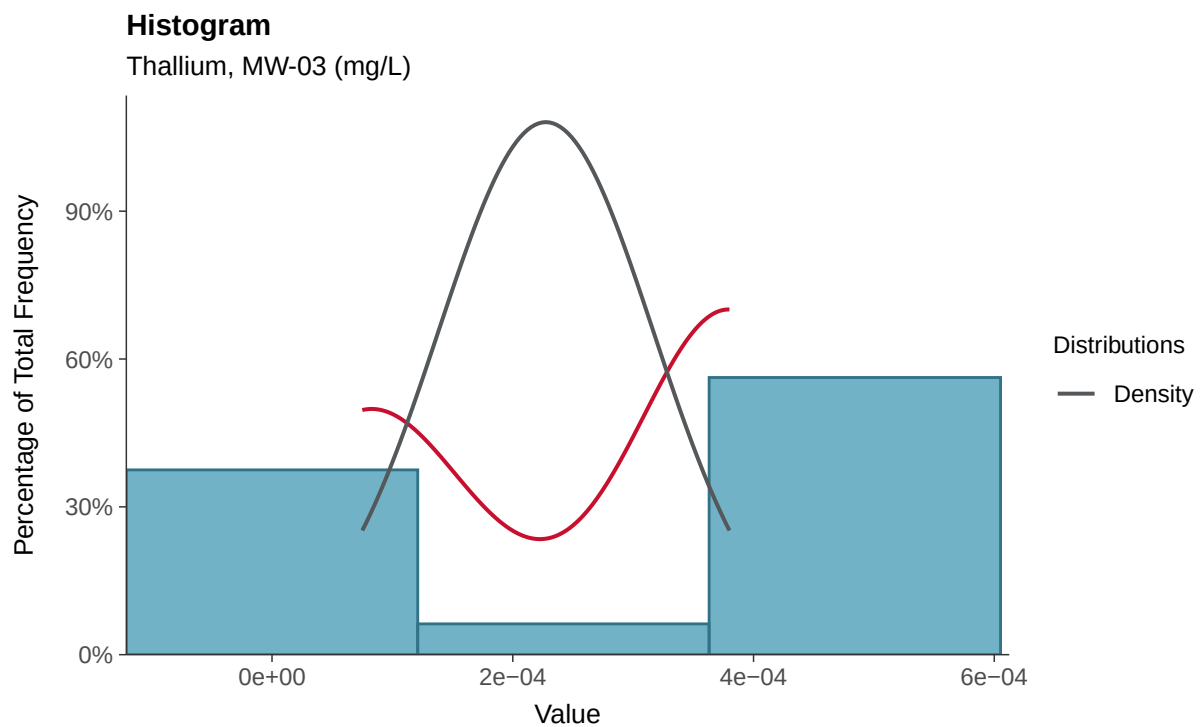
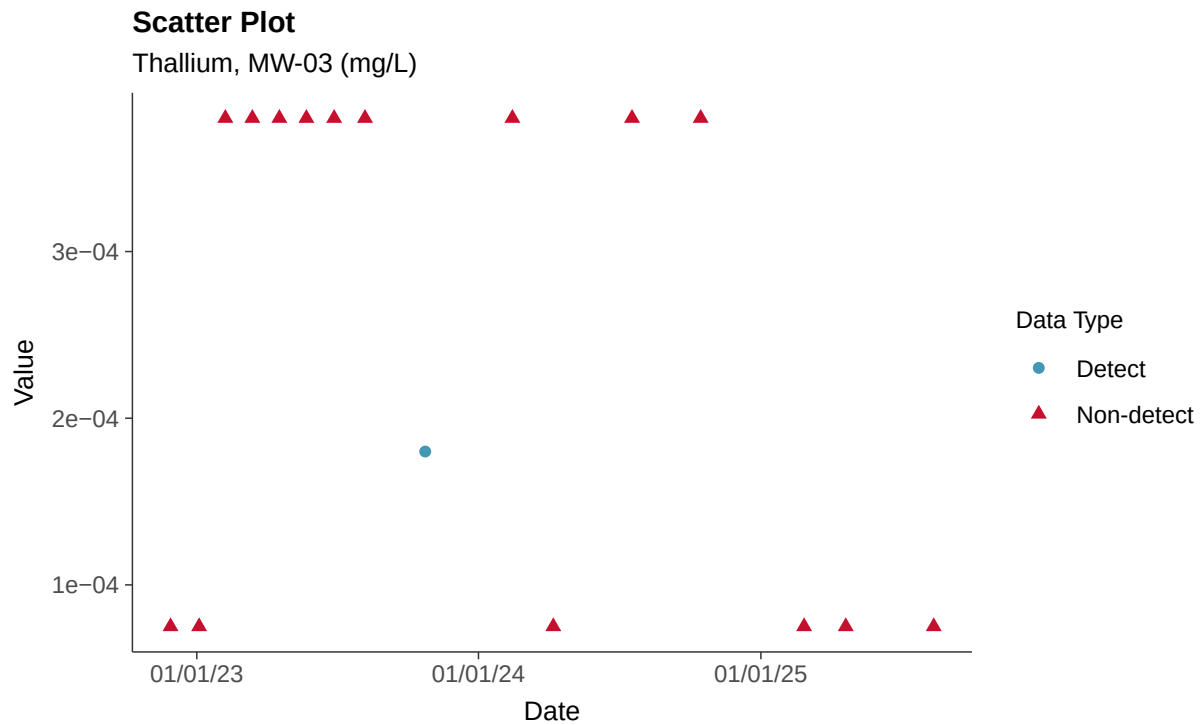
Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-03 (mg/L)



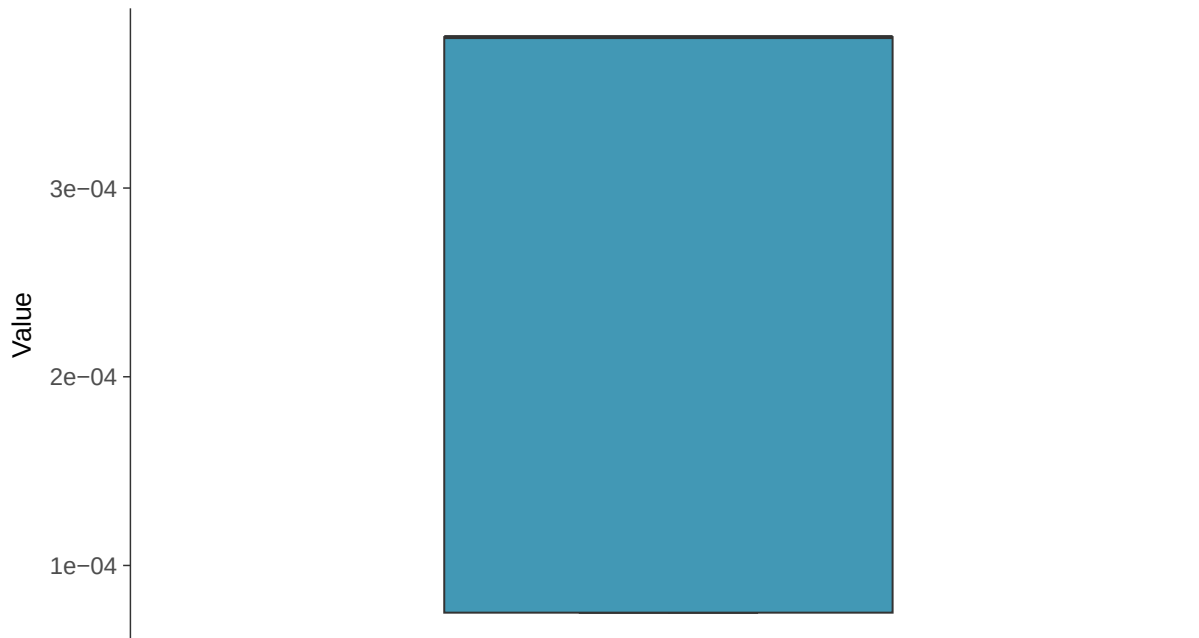
Appendix IV: Thallium, MW-03

ID: 13_2_4_125



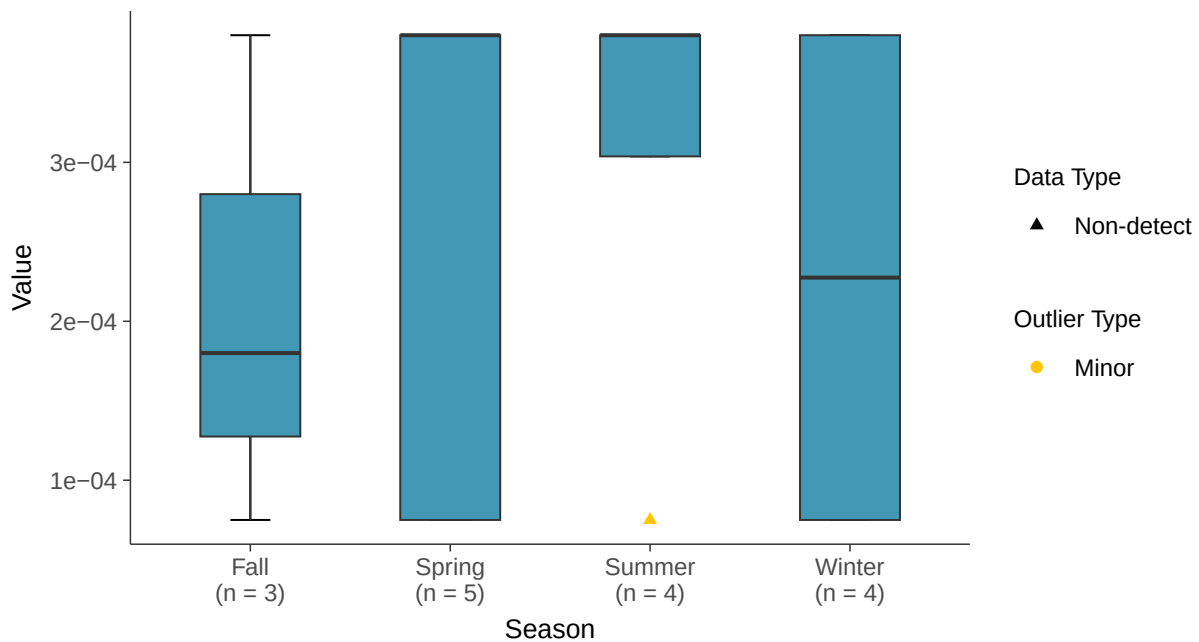
Boxplot

Thallium, MW-03 (mg/L)



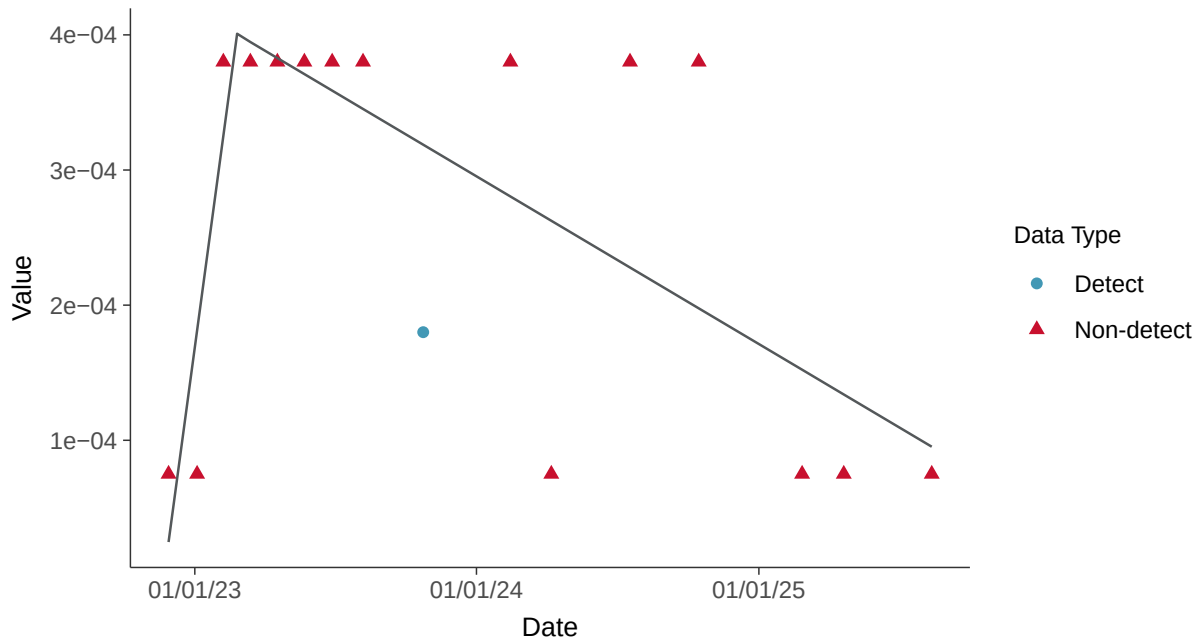
Boxplot by Season

Thallium, MW-03 (mg/L)



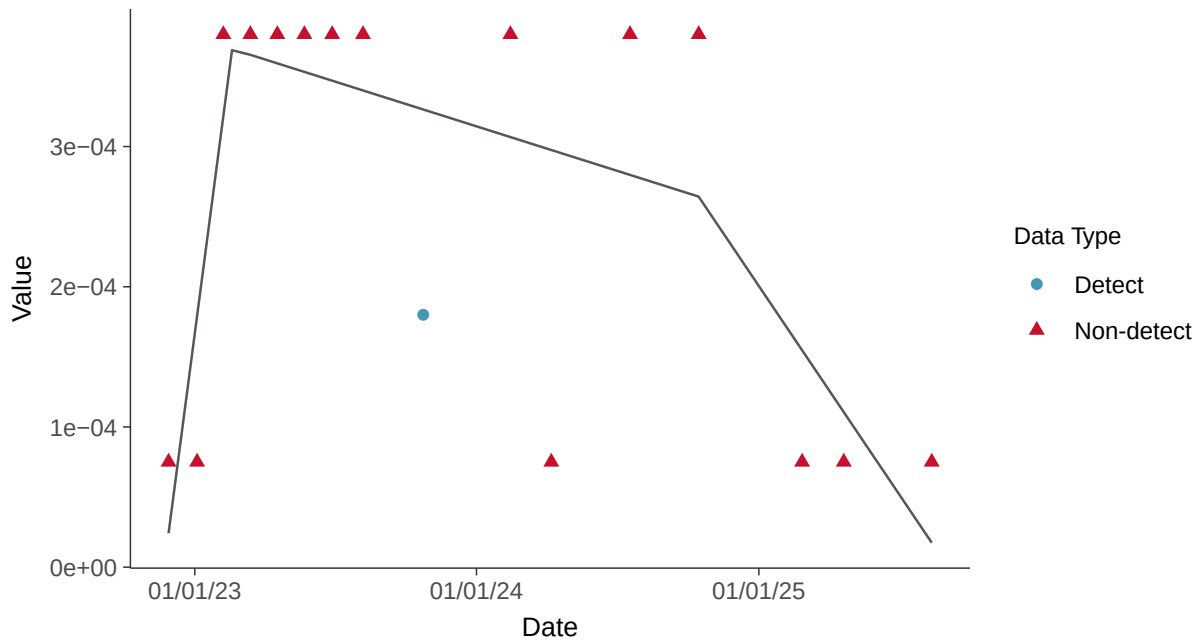
Trend Regression: Piecewise Linear-Linear

Thallium, MW-03 (mg/L)



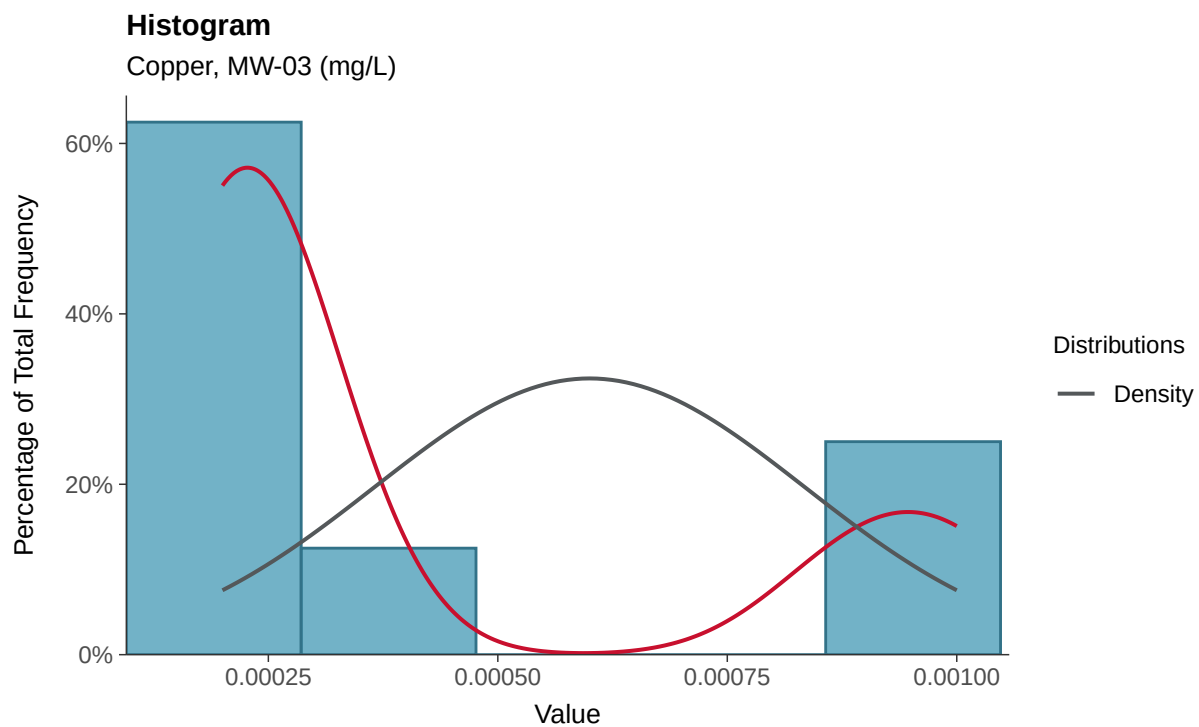
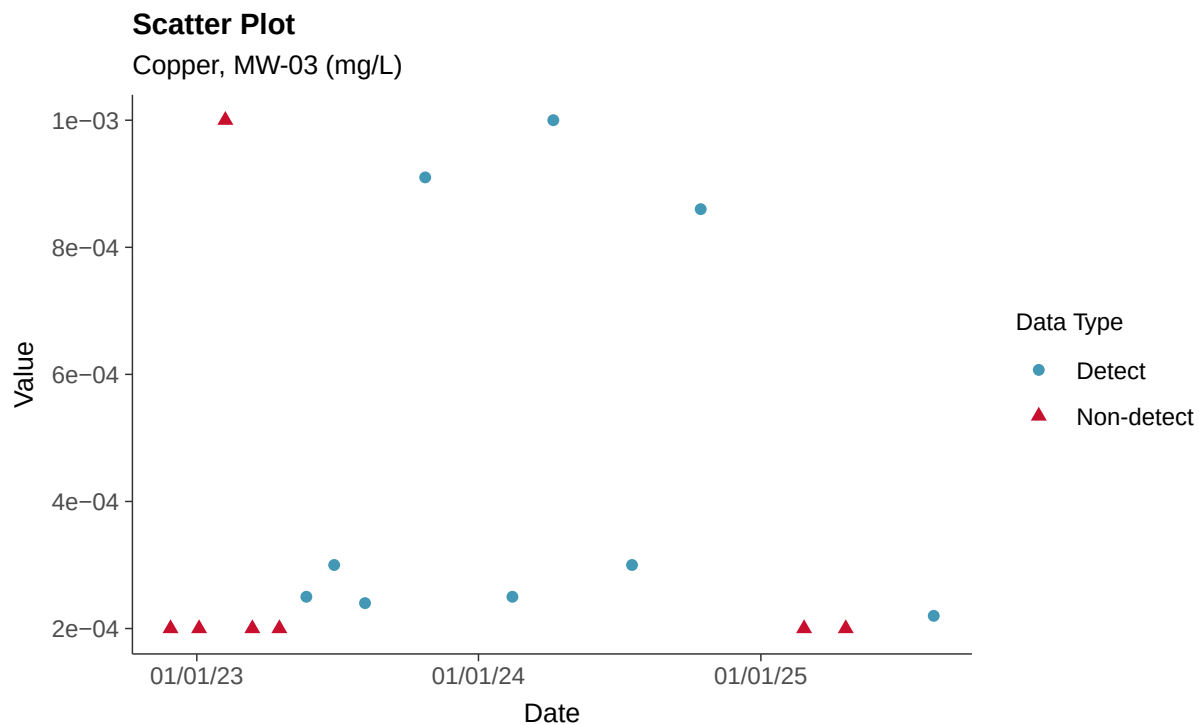
Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-03 (mg/L)



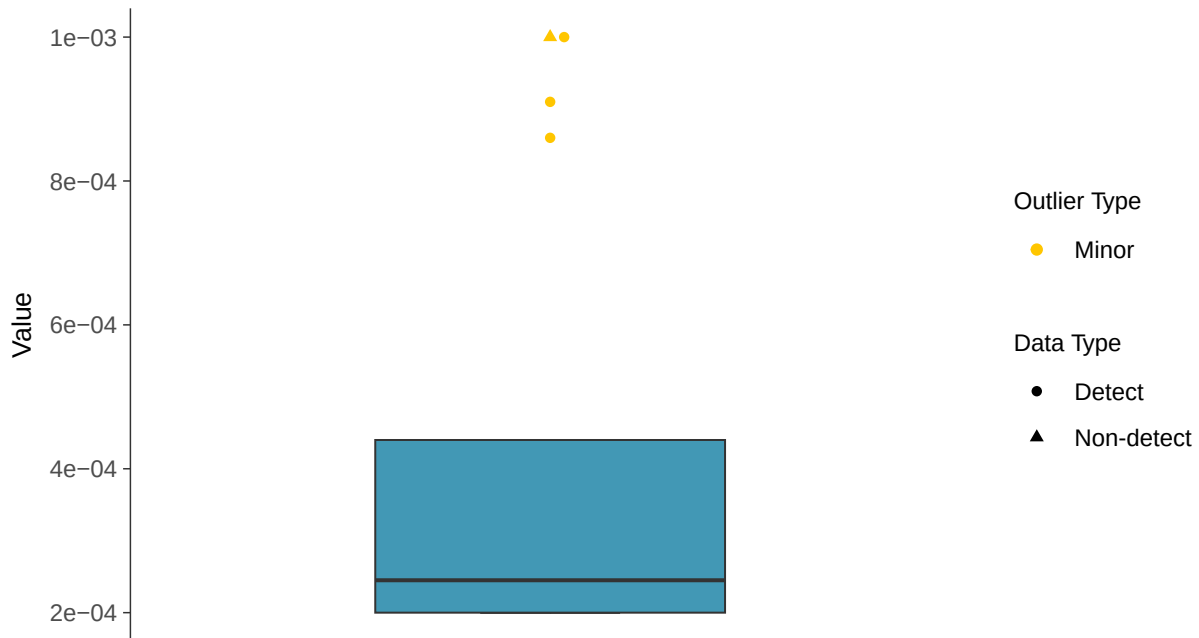
Part 115: Copper, MW-03

ID: 13_2_5_111



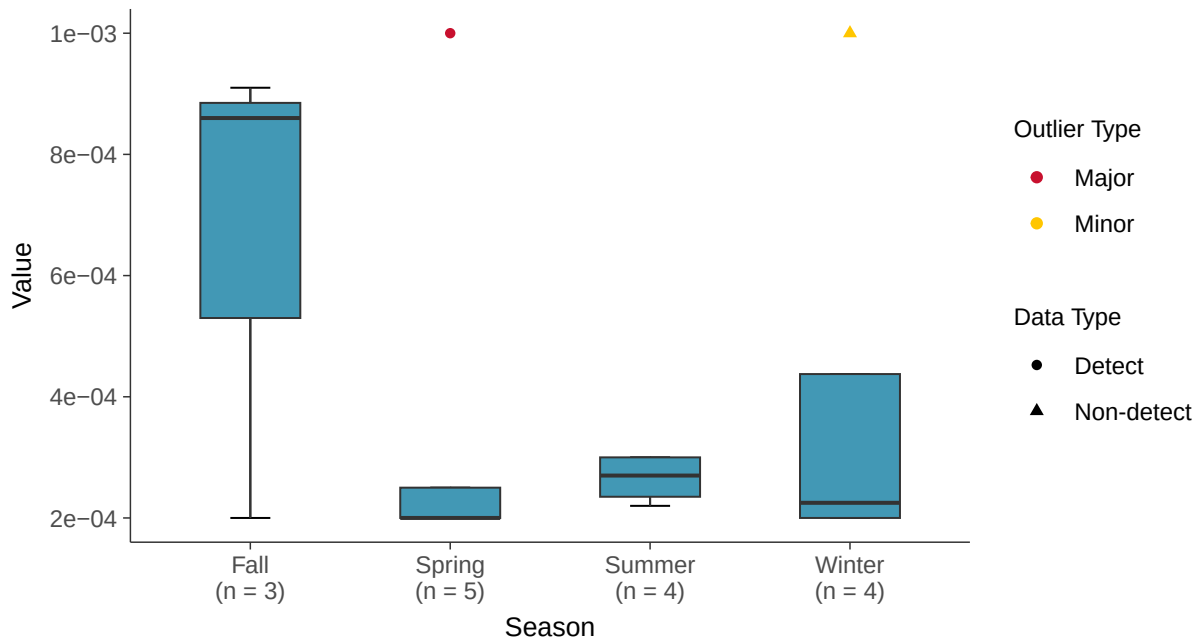
Boxplot

Copper, MW-03 (mg/L)



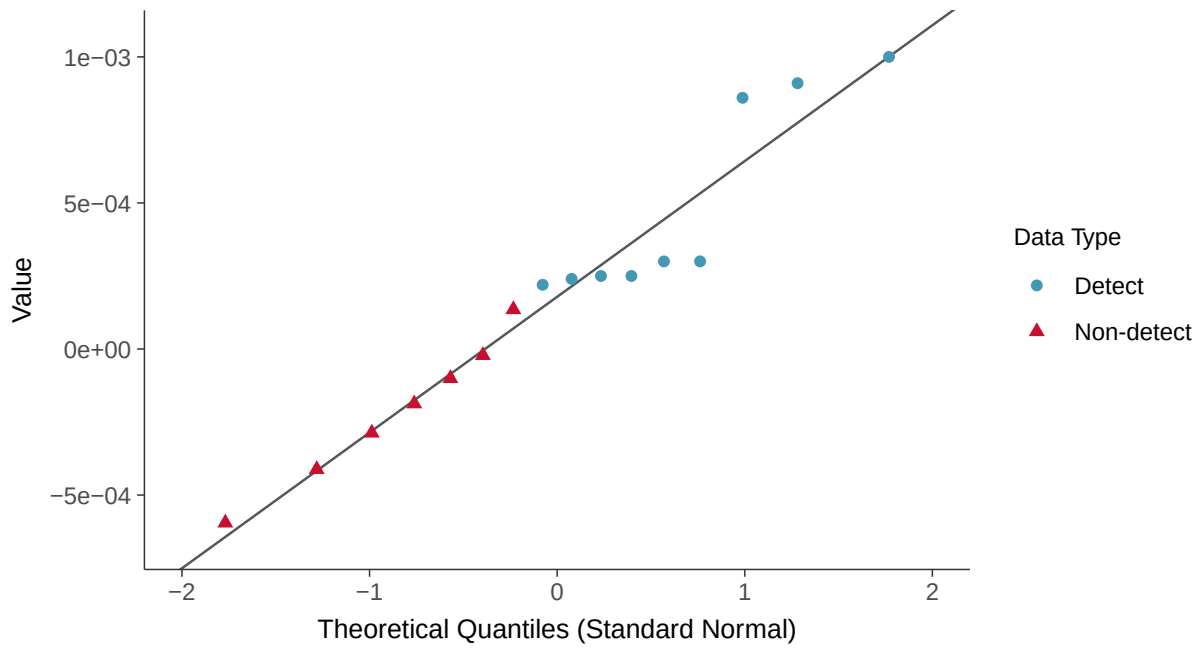
Boxplot by Season

Copper, MW-03 (mg/L)



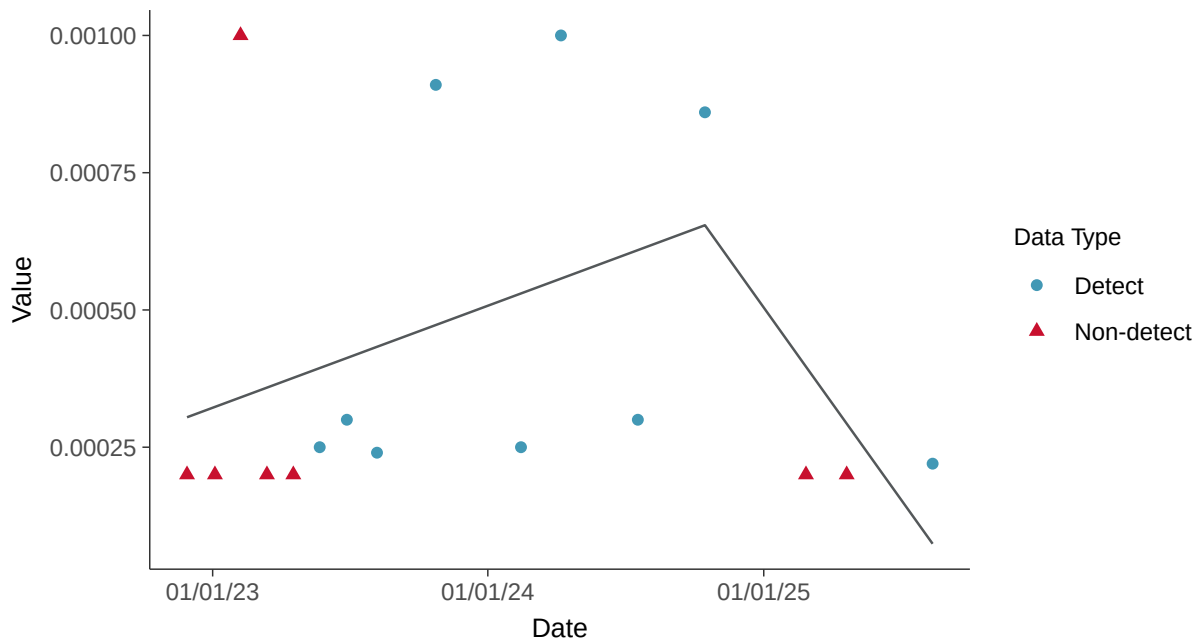
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-03 (mg/L)



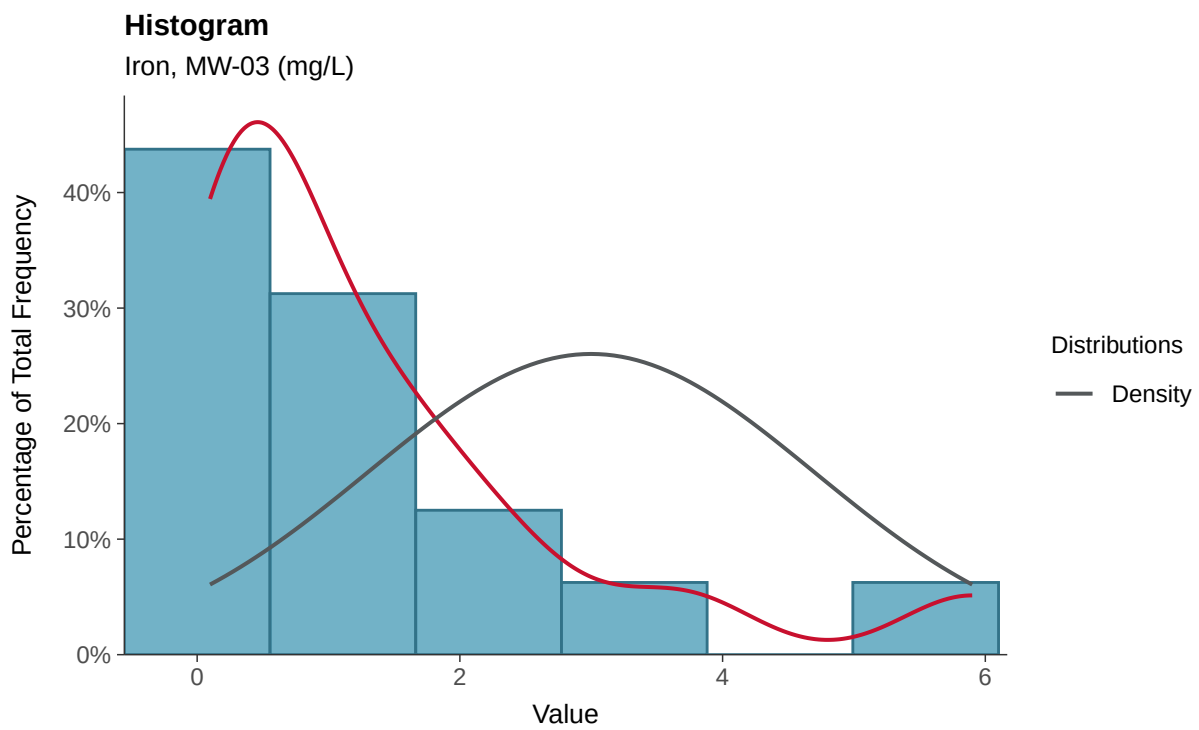
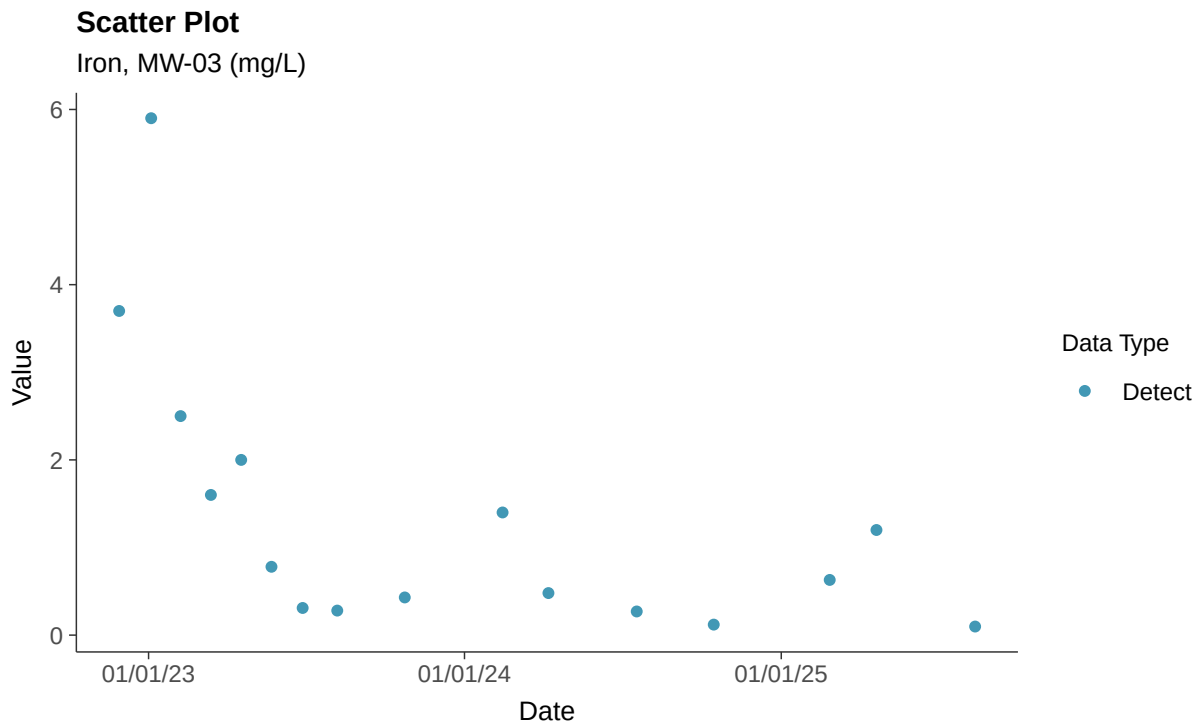
Trend Regression: Piecewise Linear-Linear

Copper, MW-03 (mg/L)



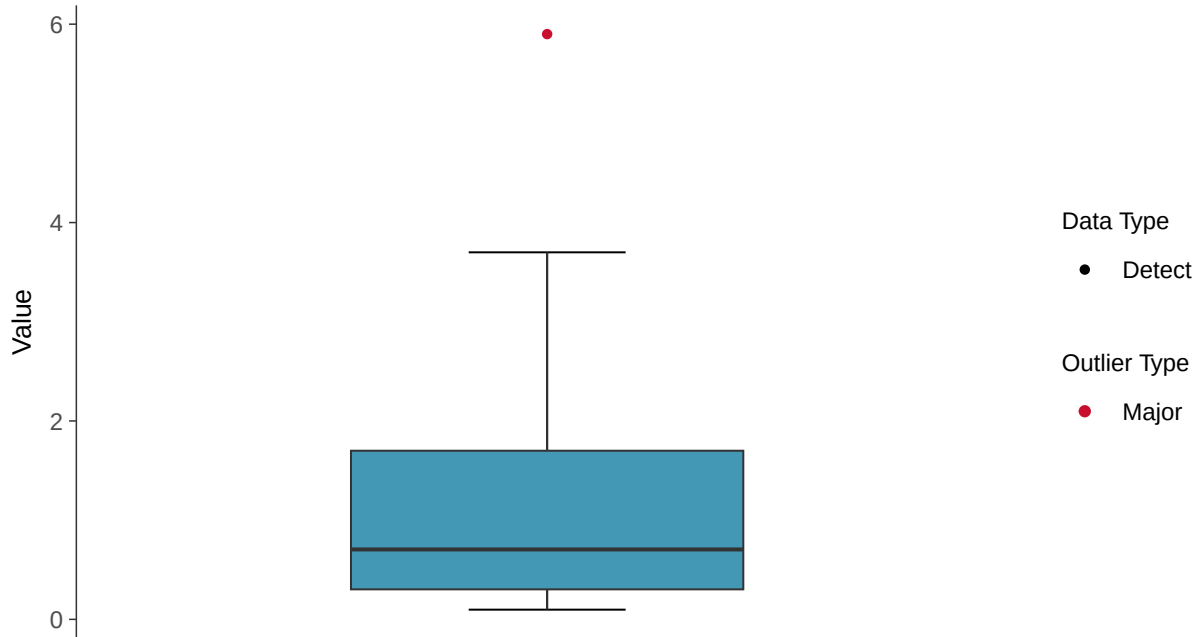
Part 115: Iron, MW-03

ID: 13_2_5_114



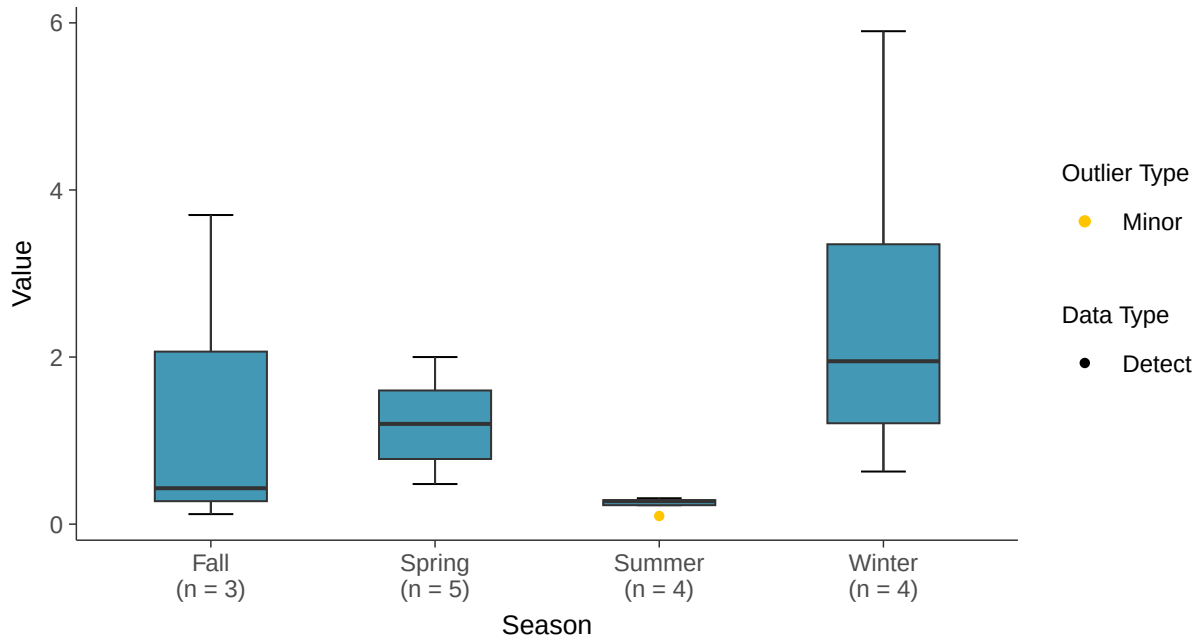
Boxplot

Iron, MW-03 (mg/L)



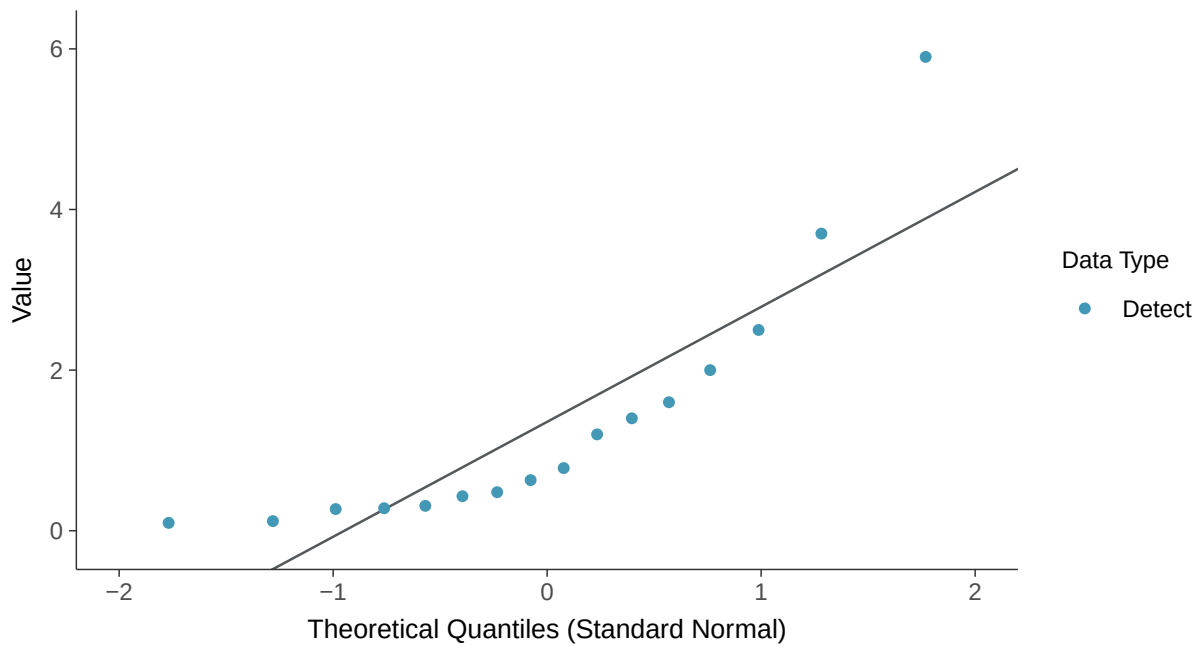
Boxplot by Season

Iron, MW-03 (mg/L)



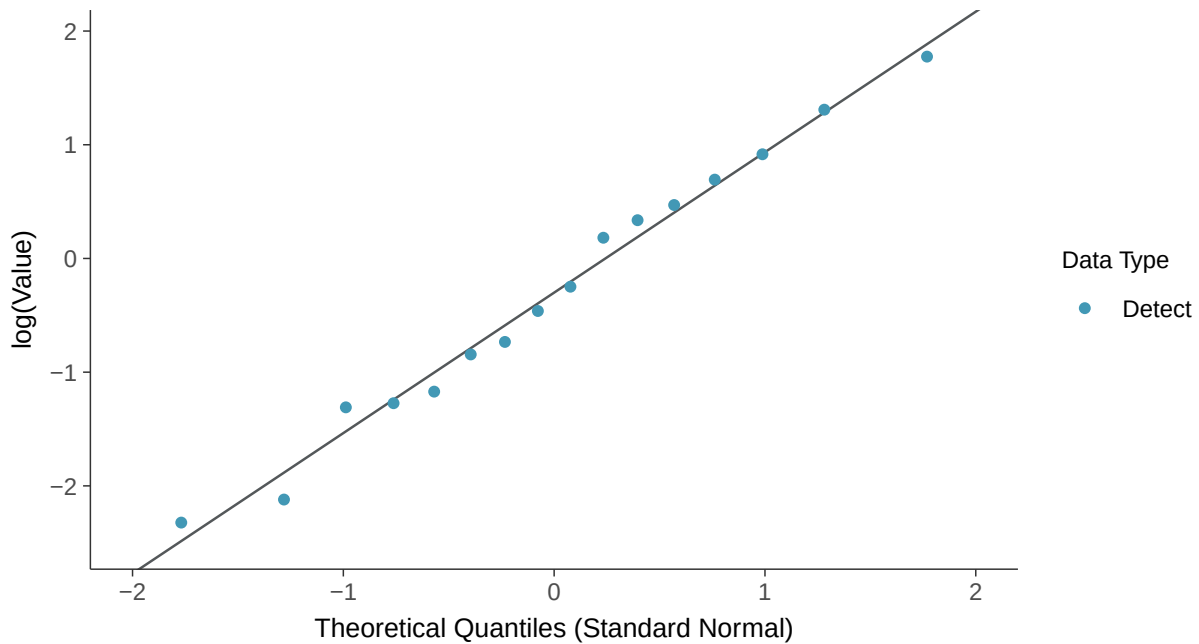
Normal Q-Q plot

Iron, MW-03 (mg/L)



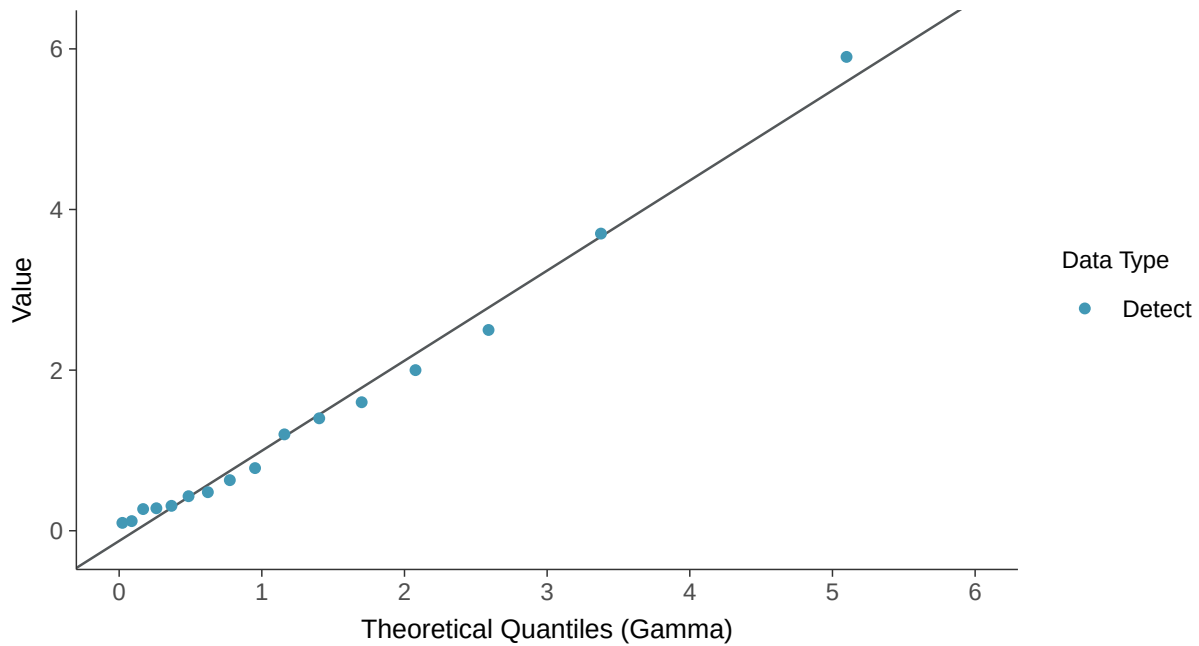
Lognormal Q-Q plot

Iron, MW-03 (mg/L)



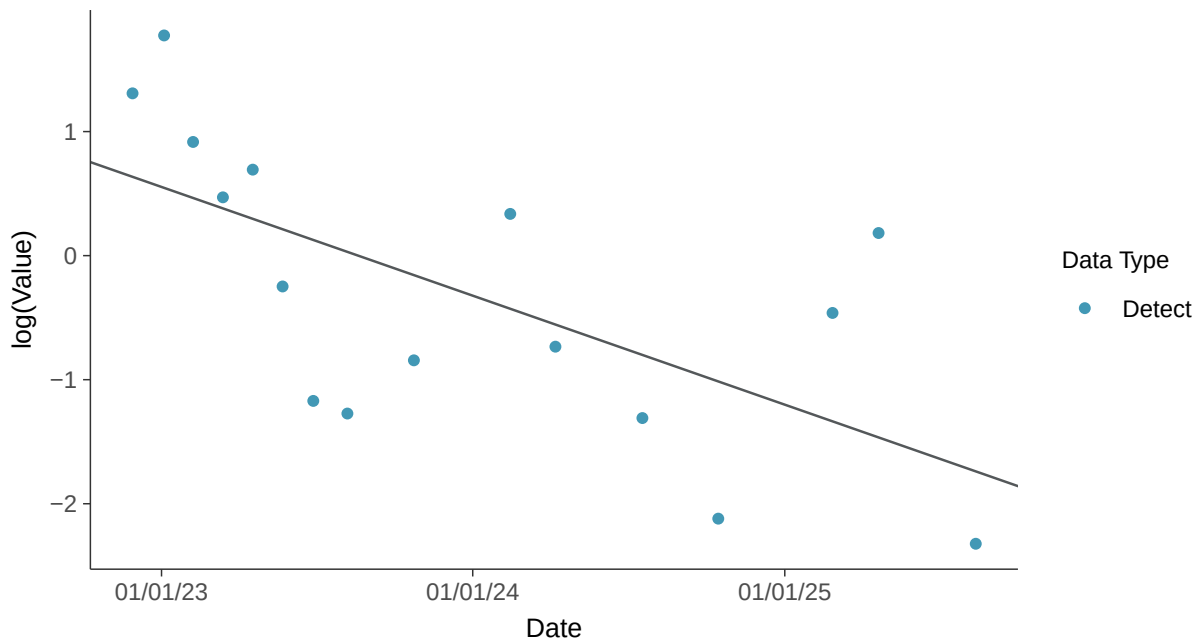
Gamma Q-Q plot

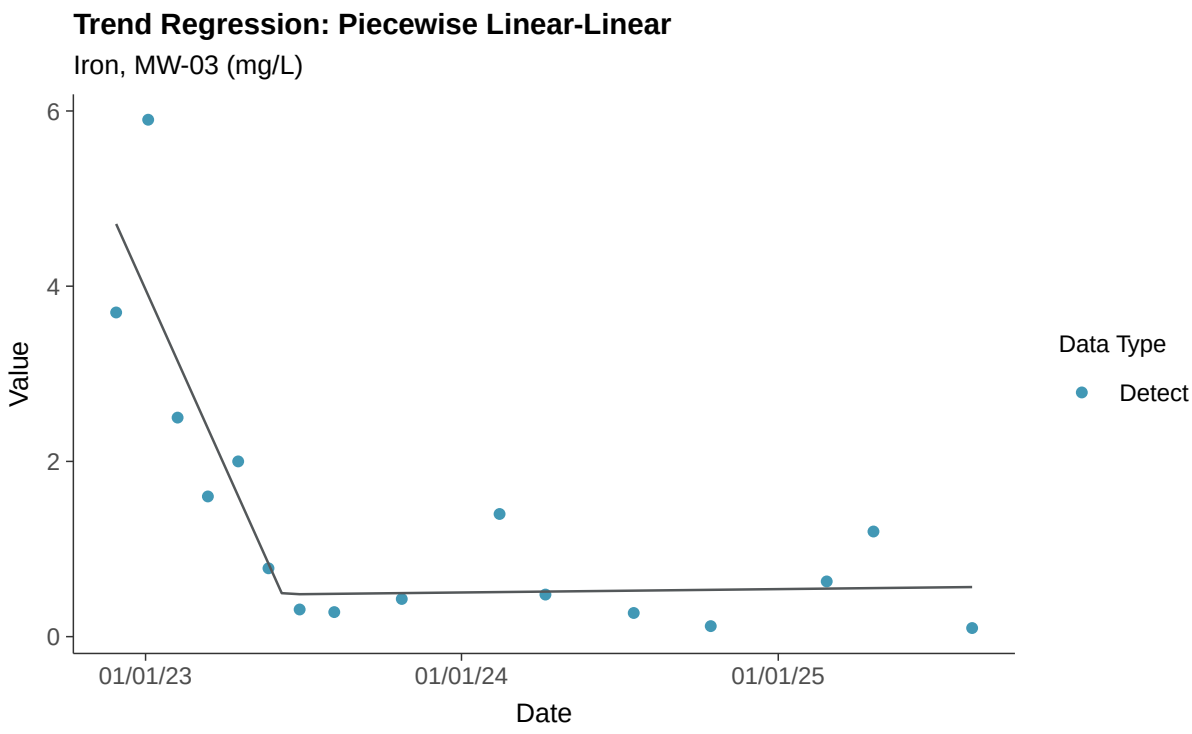
Iron, MW-03 (mg/L)



Trend Regression: Lognormal MLE

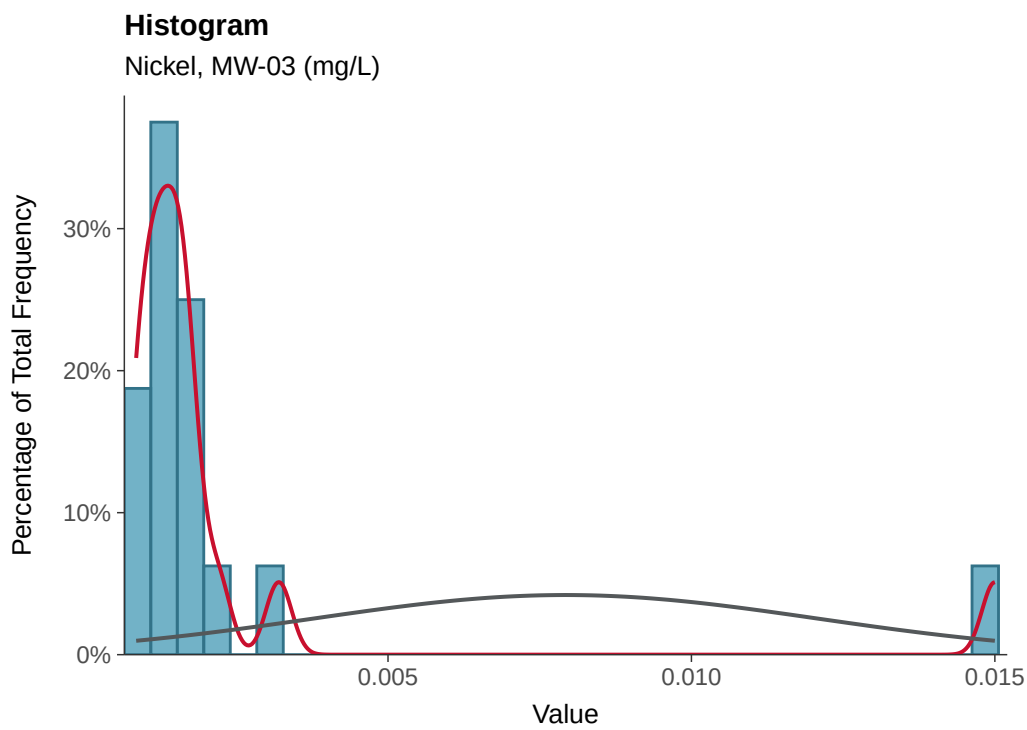
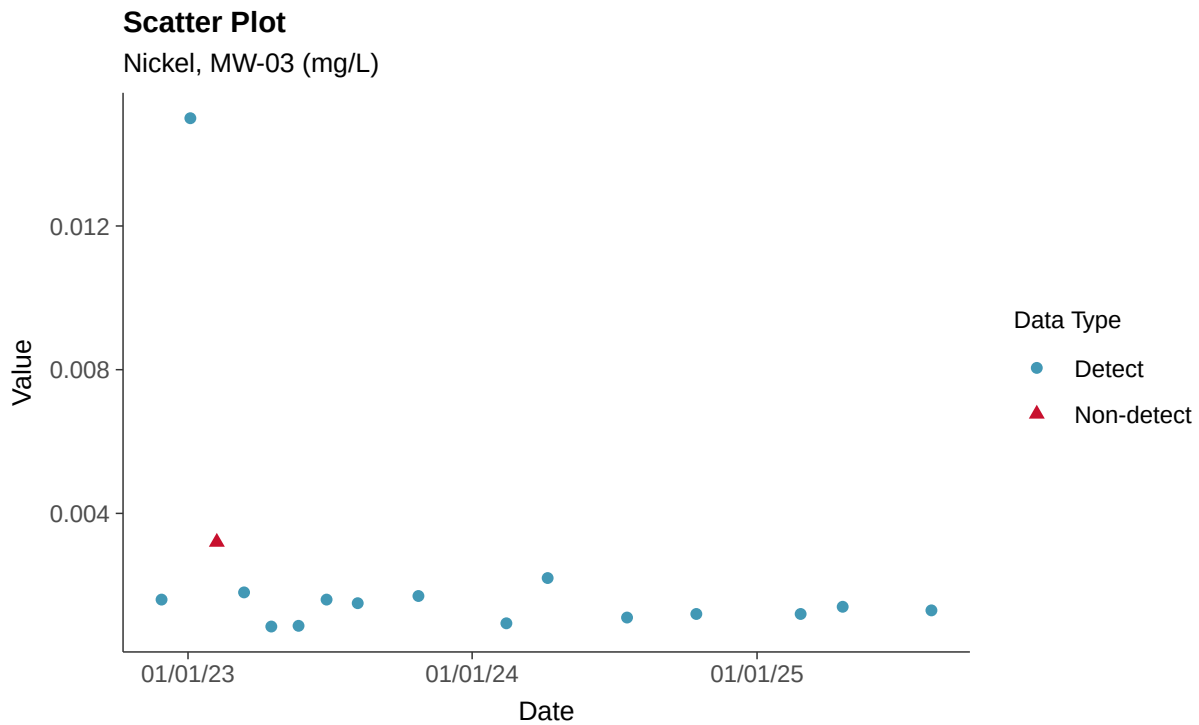
Iron, MW-03 (mg/L)





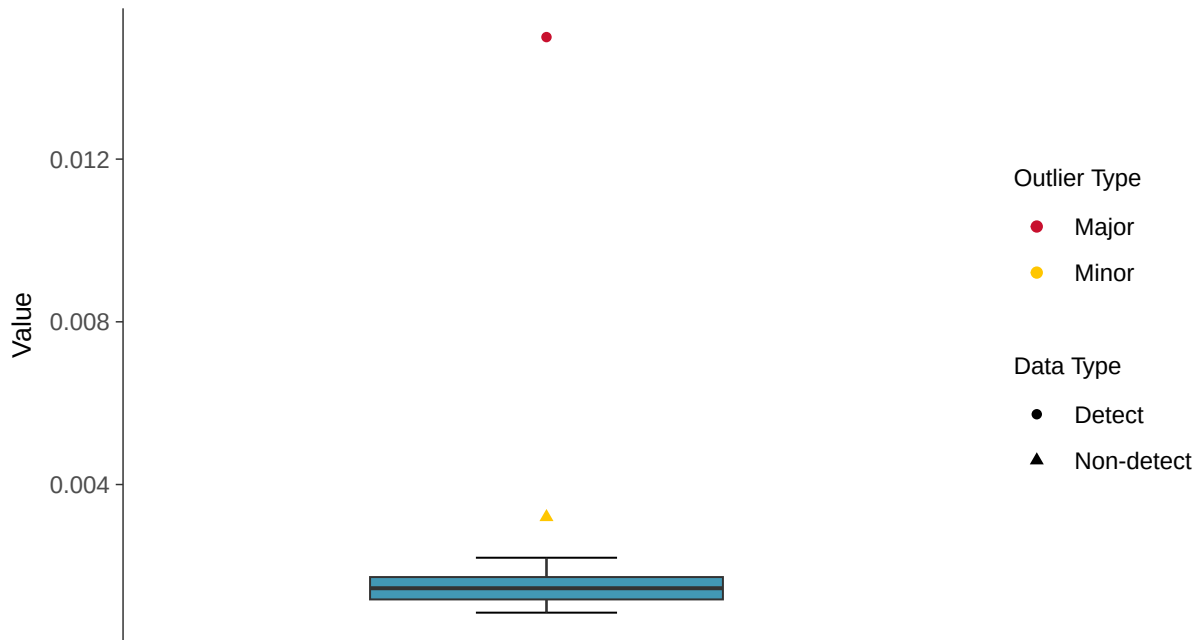
Part 115: Nickel, MW-03

ID: 13_2_5_119



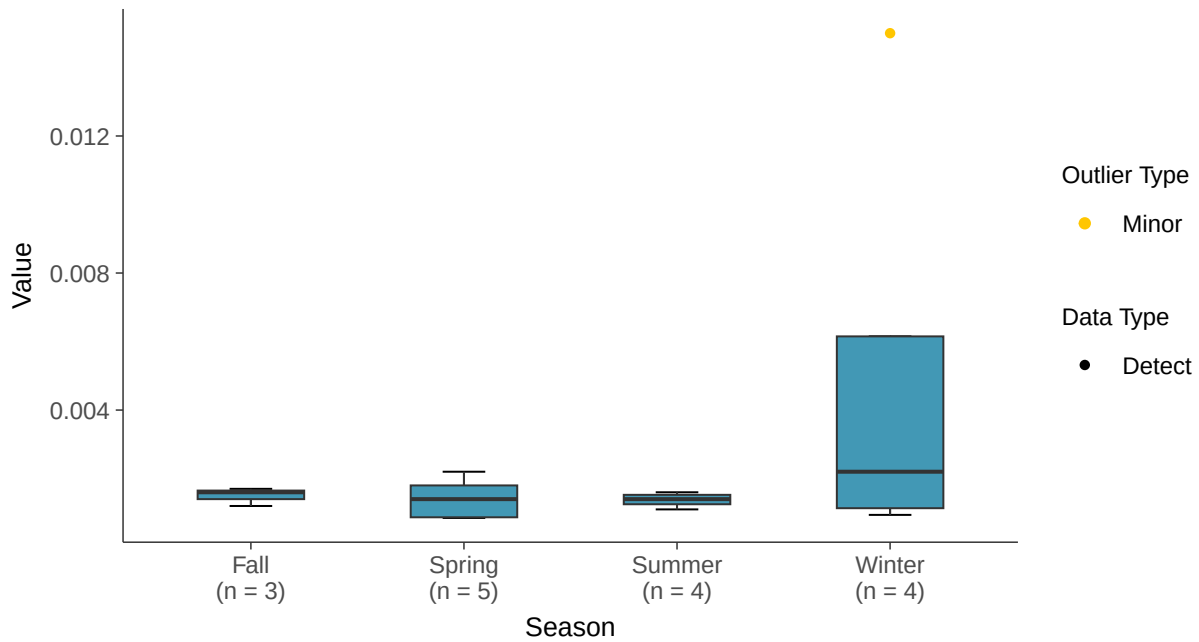
Boxplot

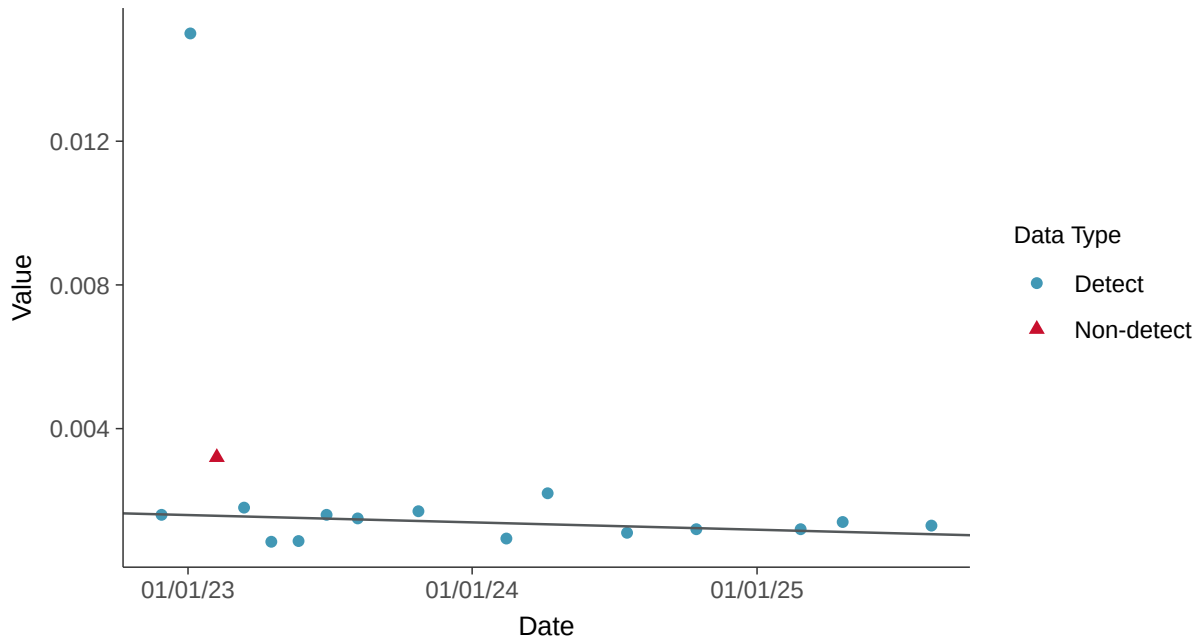
Nickel, MW-03 (mg/L)



Boxplot by Season

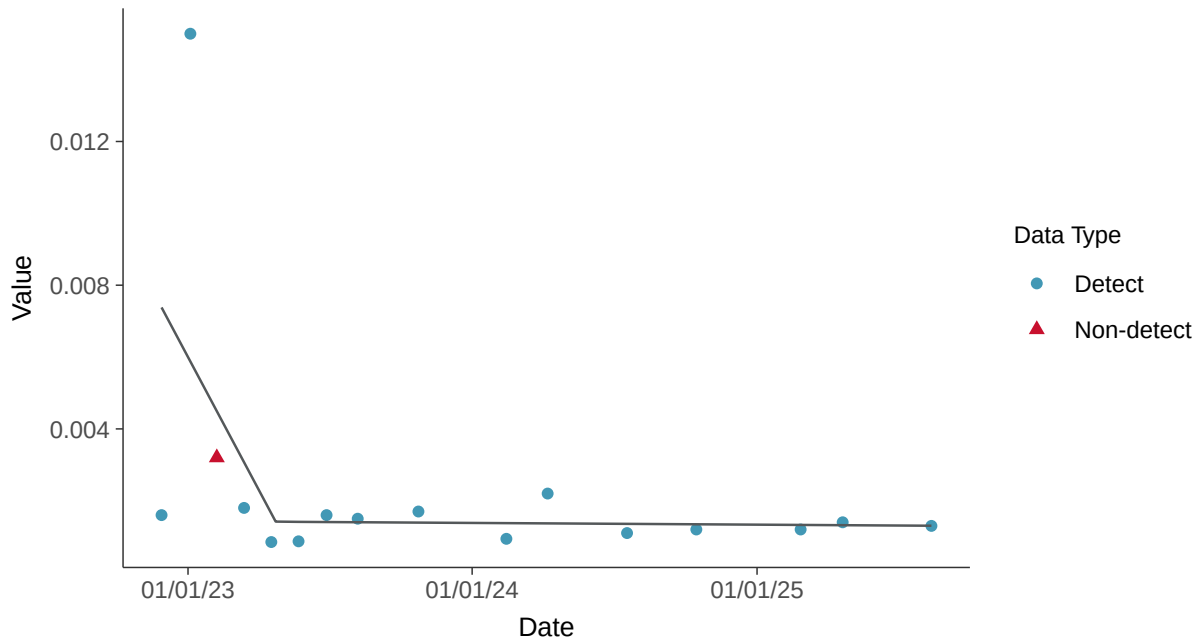
Nickel, MW-03 (mg/L)





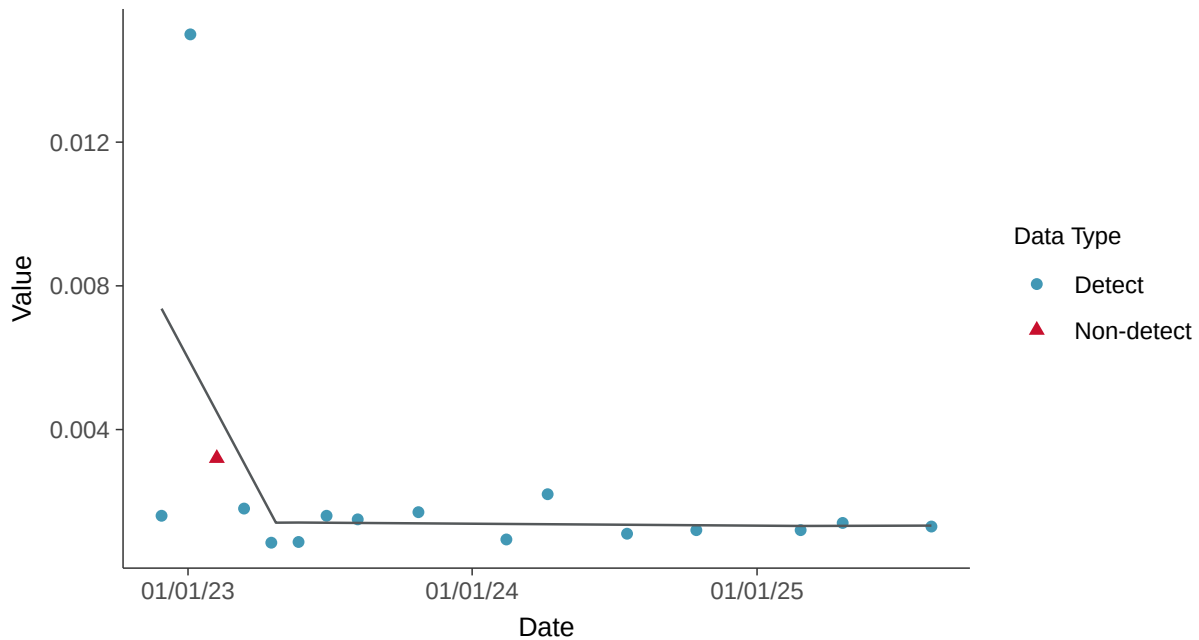
Trend Regression: Piecewise Linear-Linear

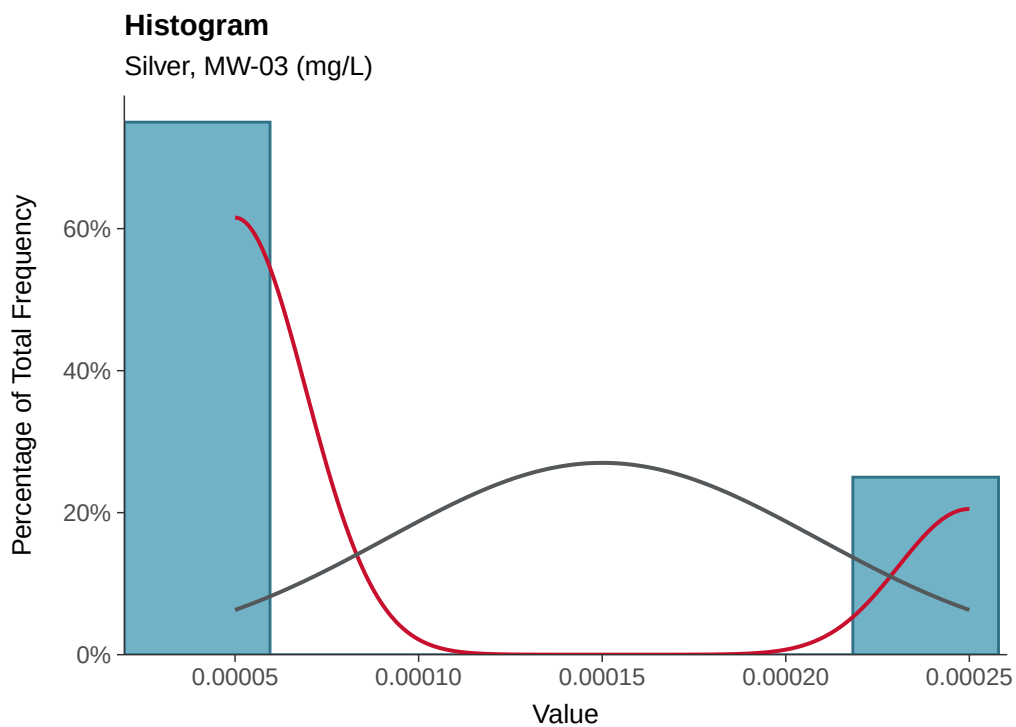
Nickel, MW-03 (mg/L)

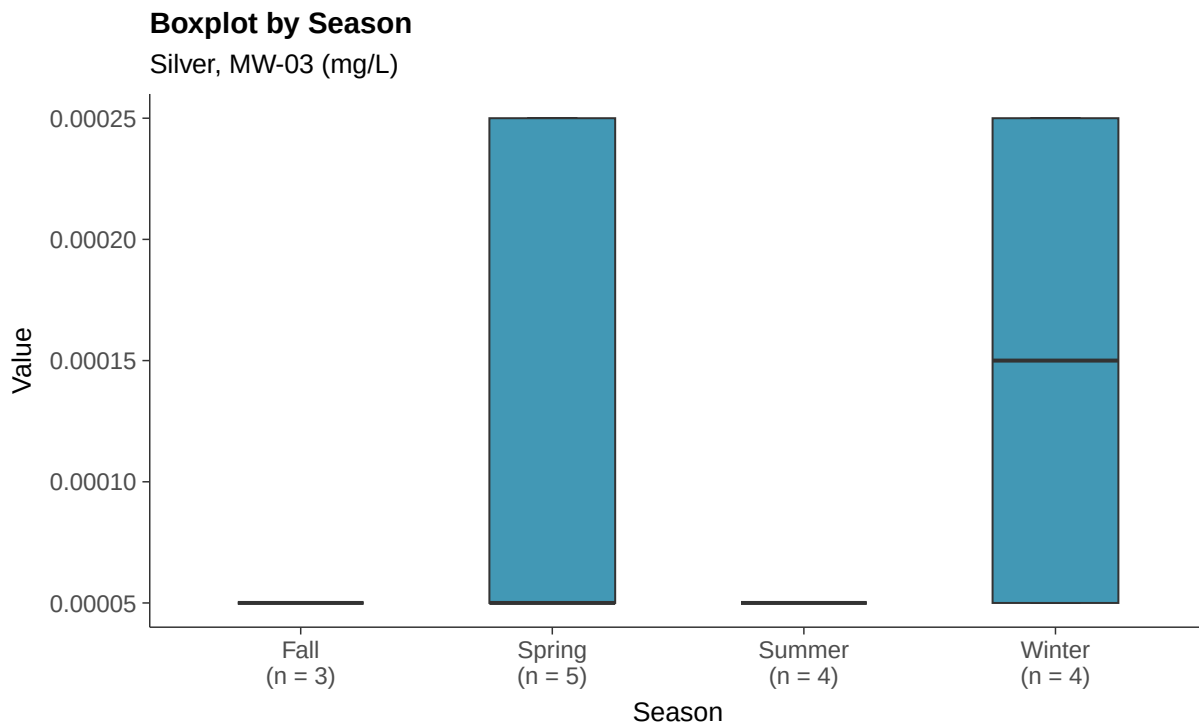
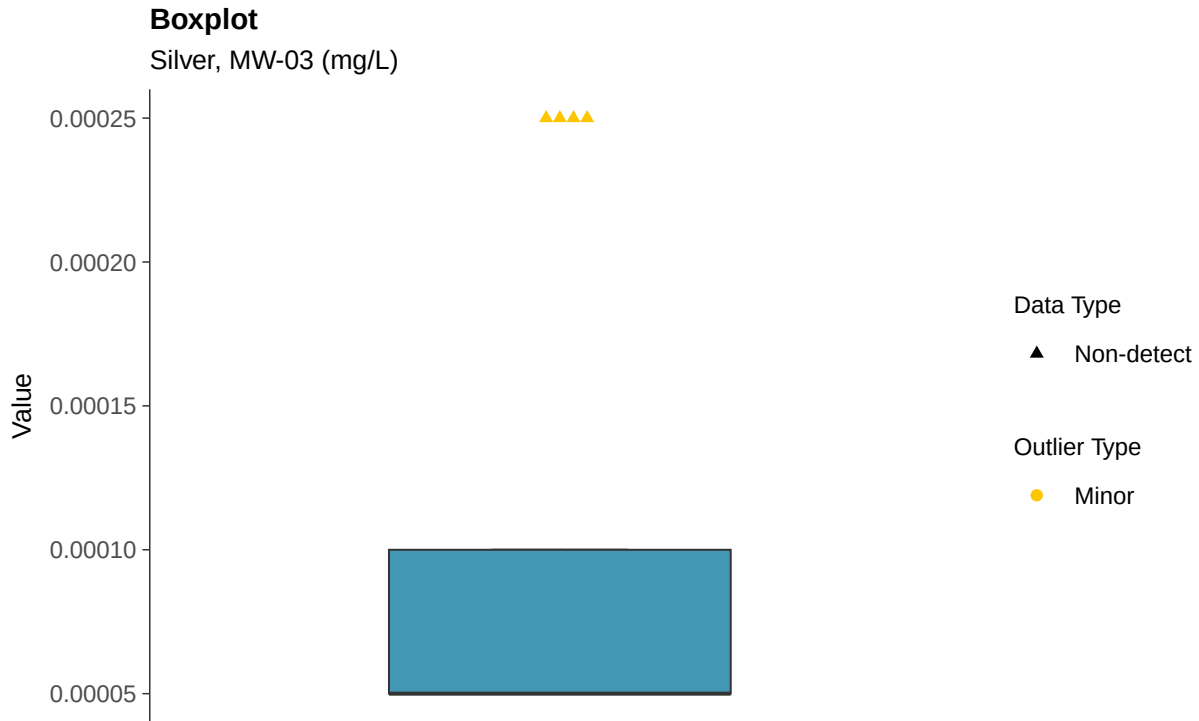


Trend Regression: Piecewise Linear-Linear-Linear

Nickel, MW-03 (mg/L)



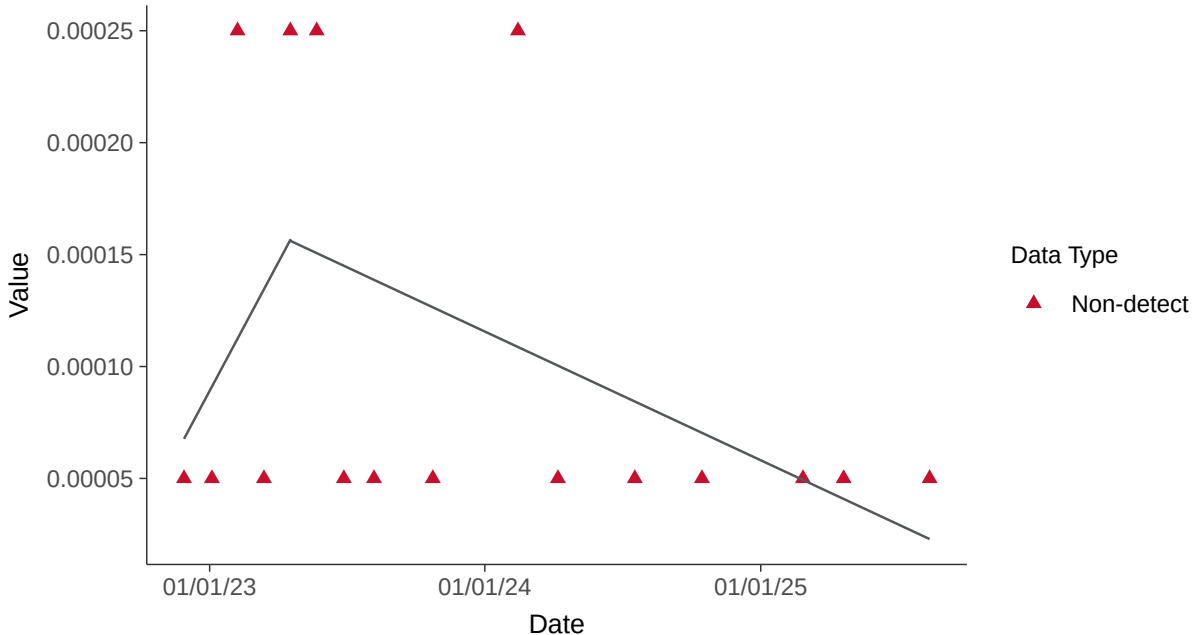






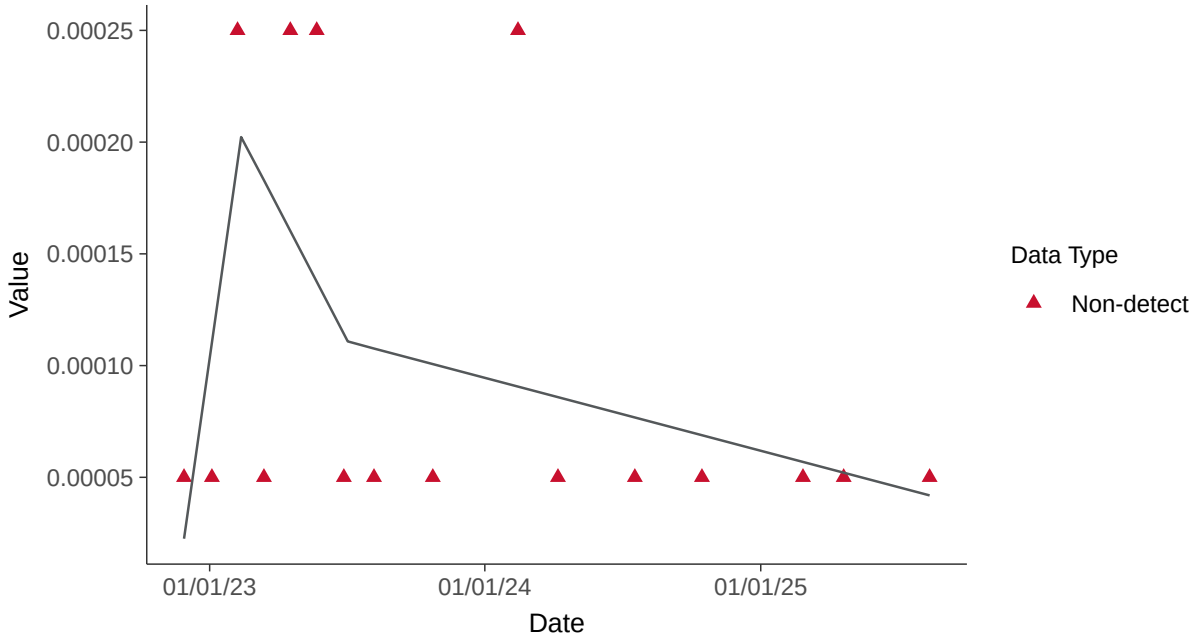
Trend Regression: Piecewise Linear-Linear

Silver, MW-03 (mg/L)



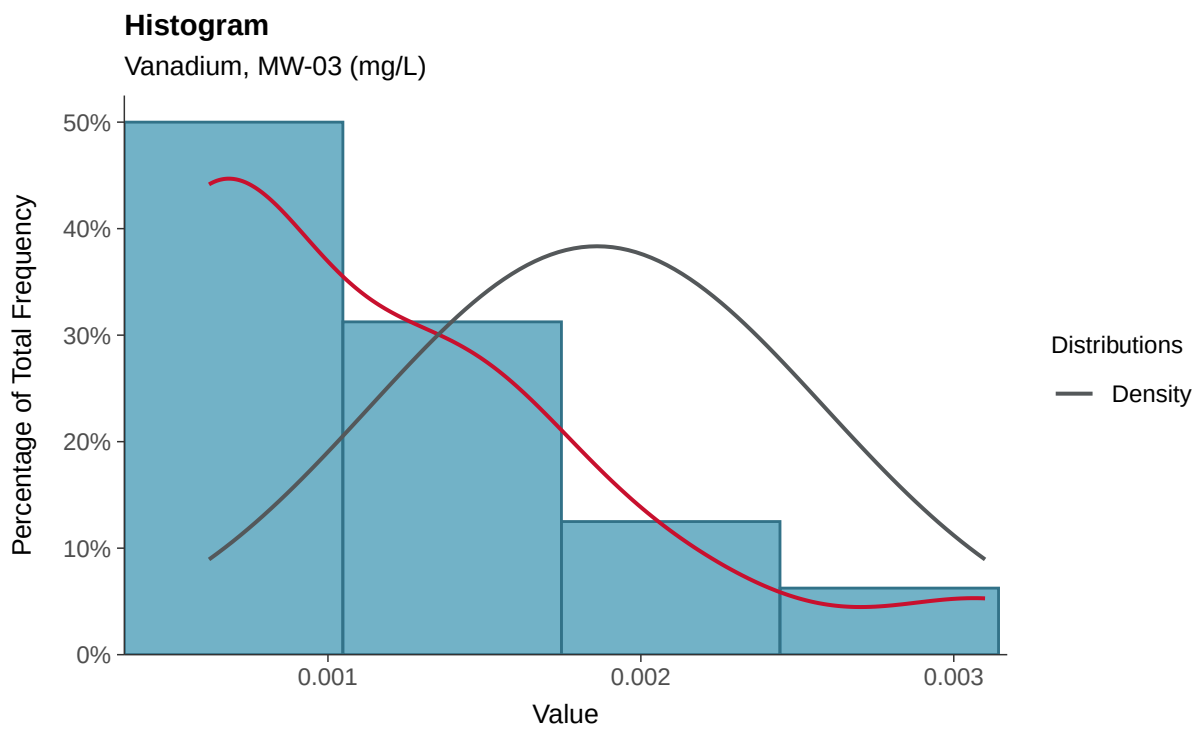
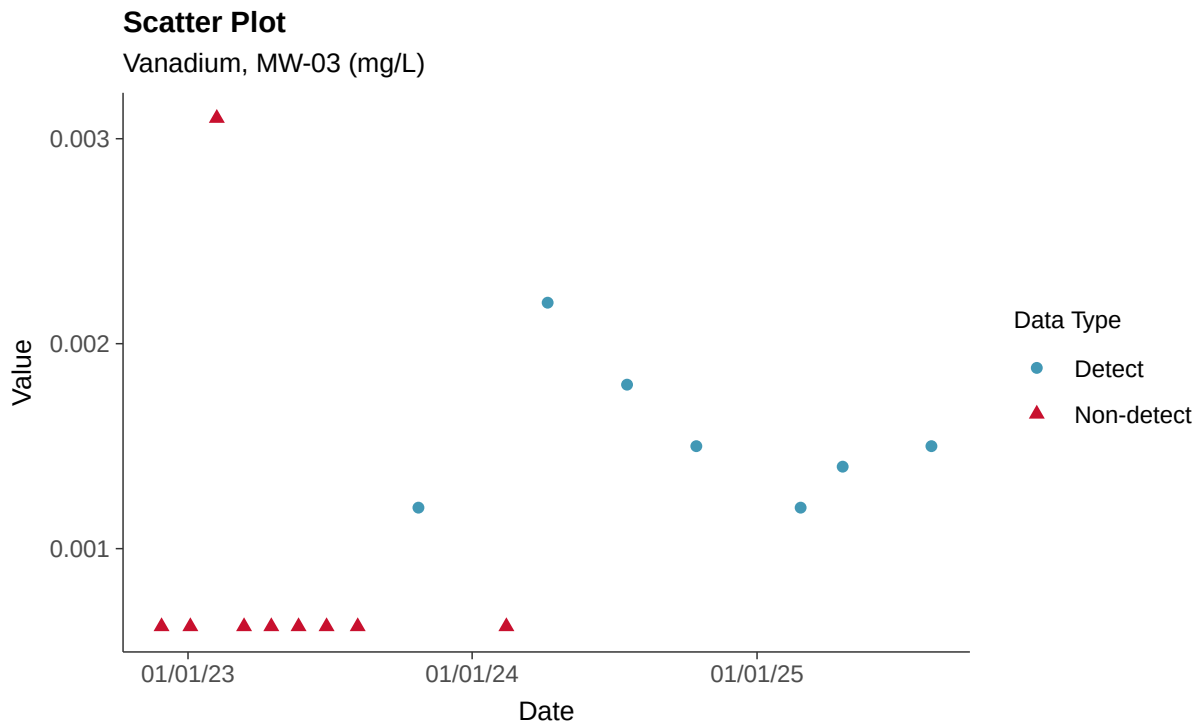
Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-03 (mg/L)



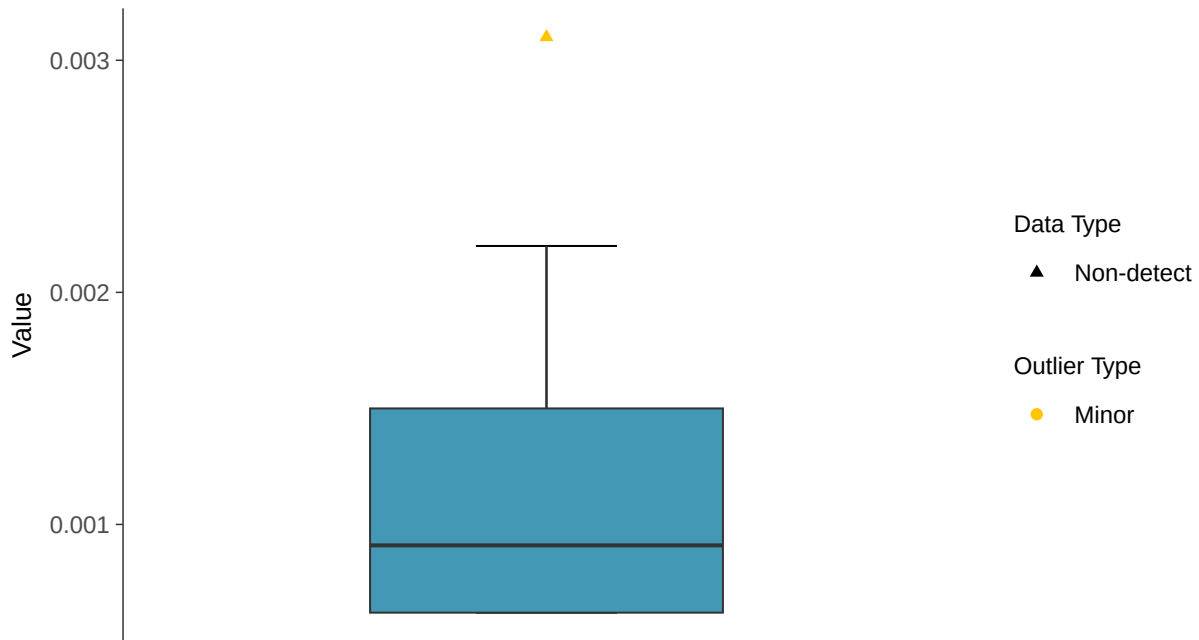
Part 115: Vanadium, MW-03

ID: 13_2_5_128



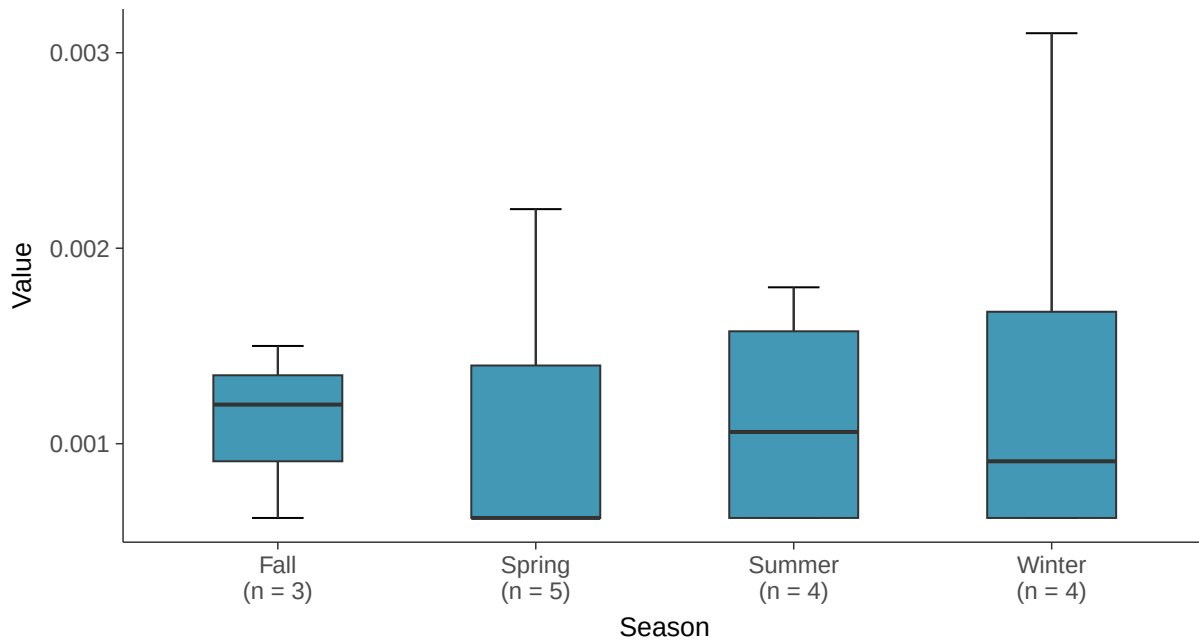
Boxplot

Vanadium, MW-03 (mg/L)



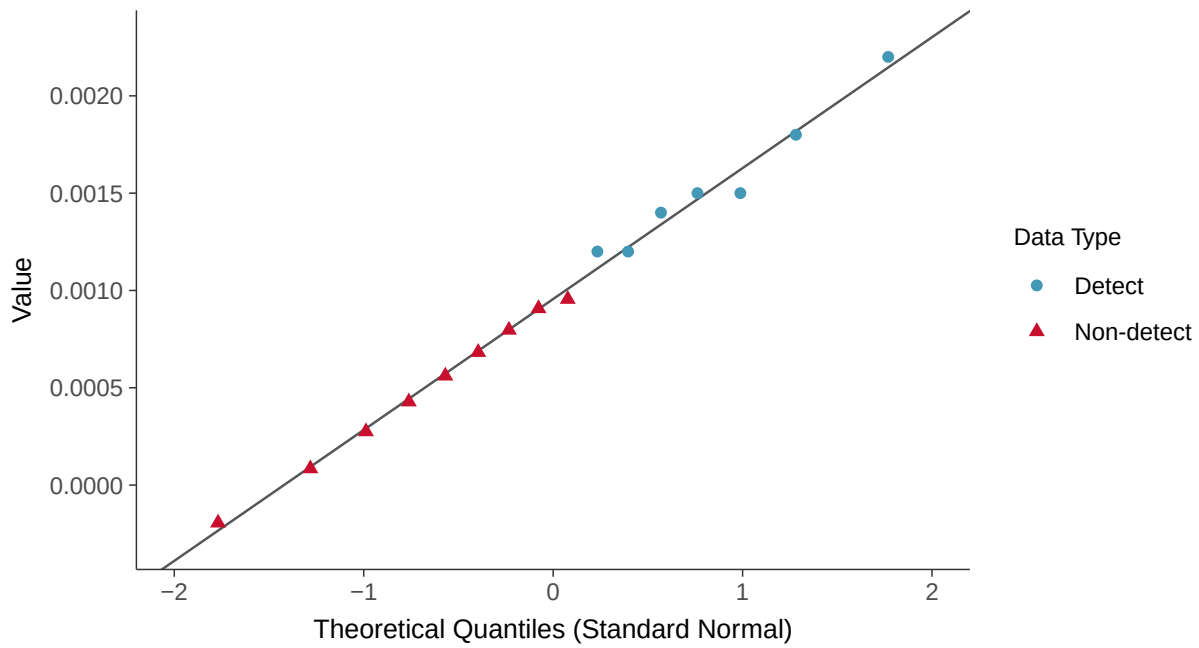
Boxplot by Season

Vanadium, MW-03 (mg/L)



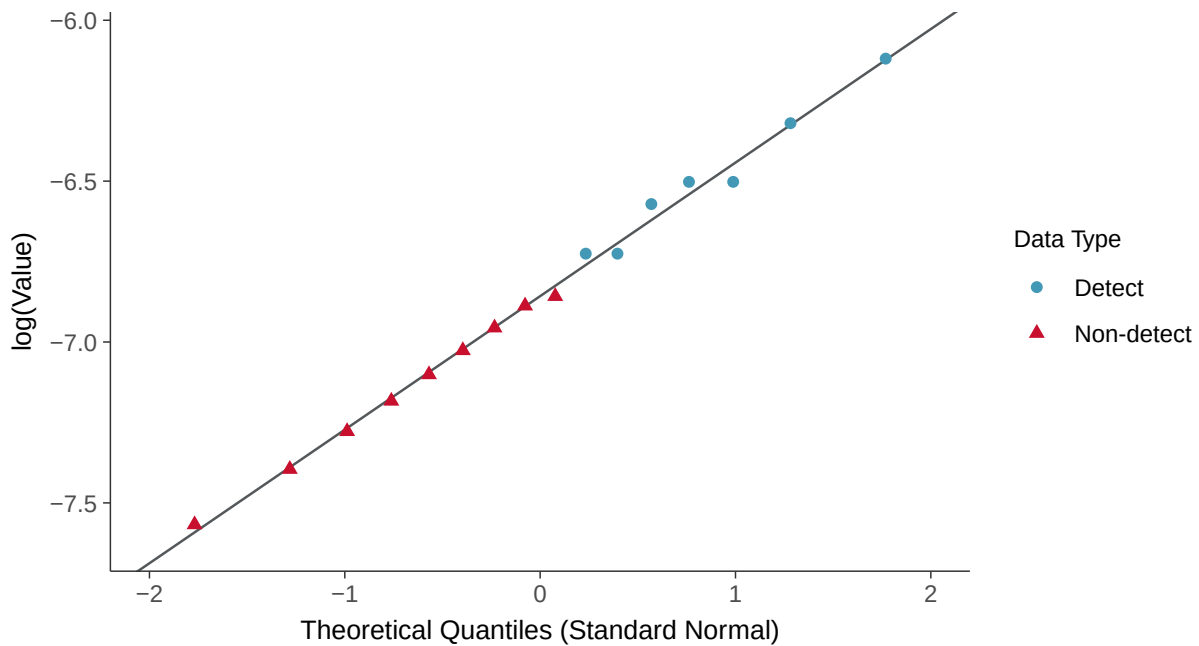
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-03 (mg/L)



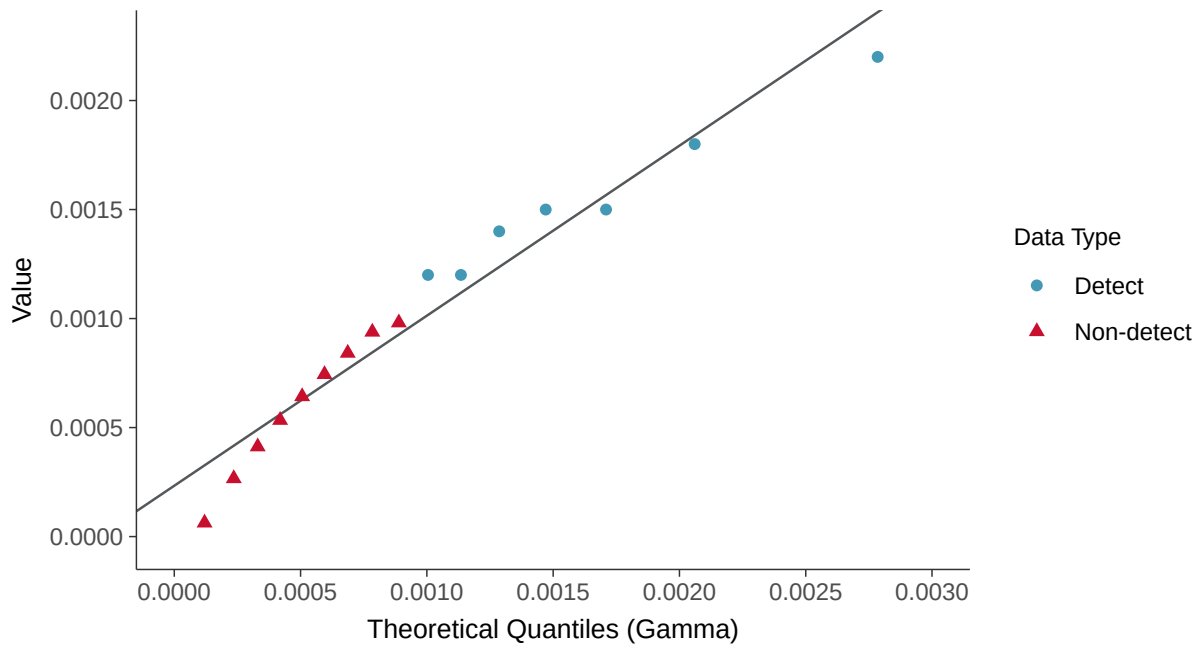
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-03 (mg/L)



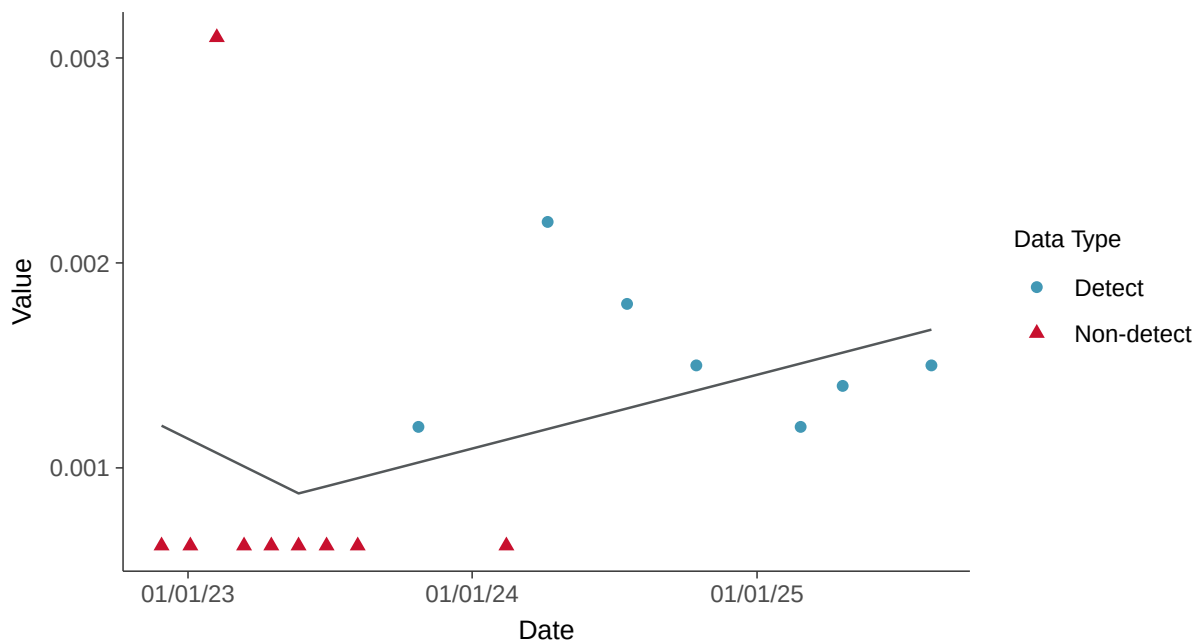
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

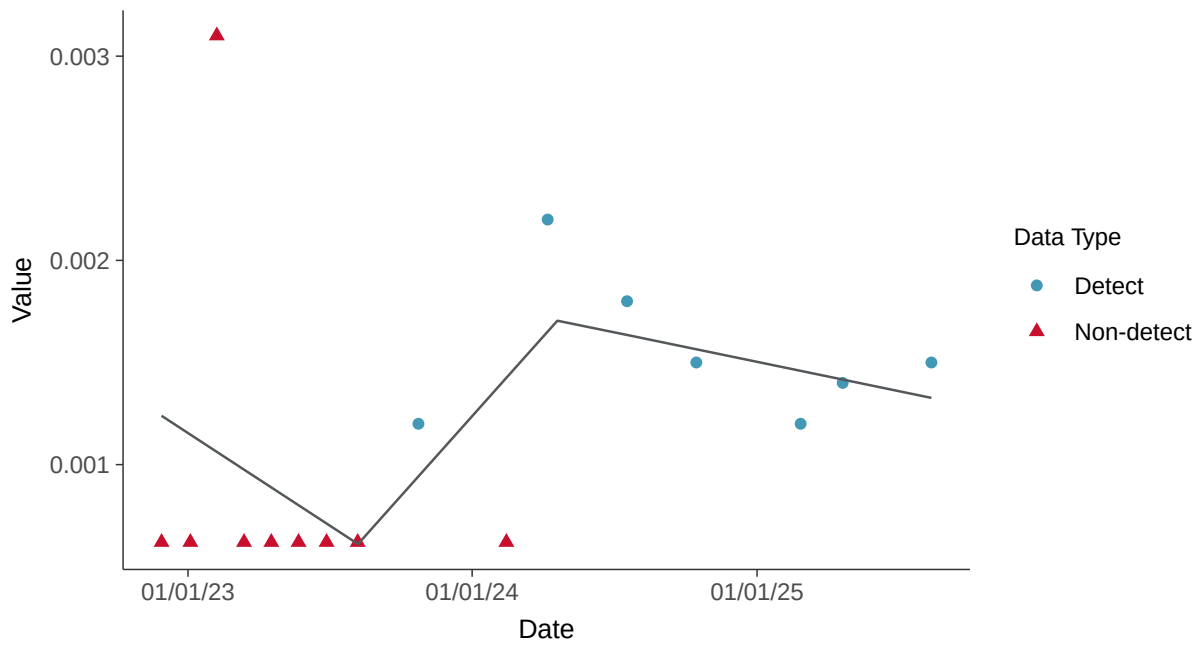
Vanadium, MW-03 (mg/L)

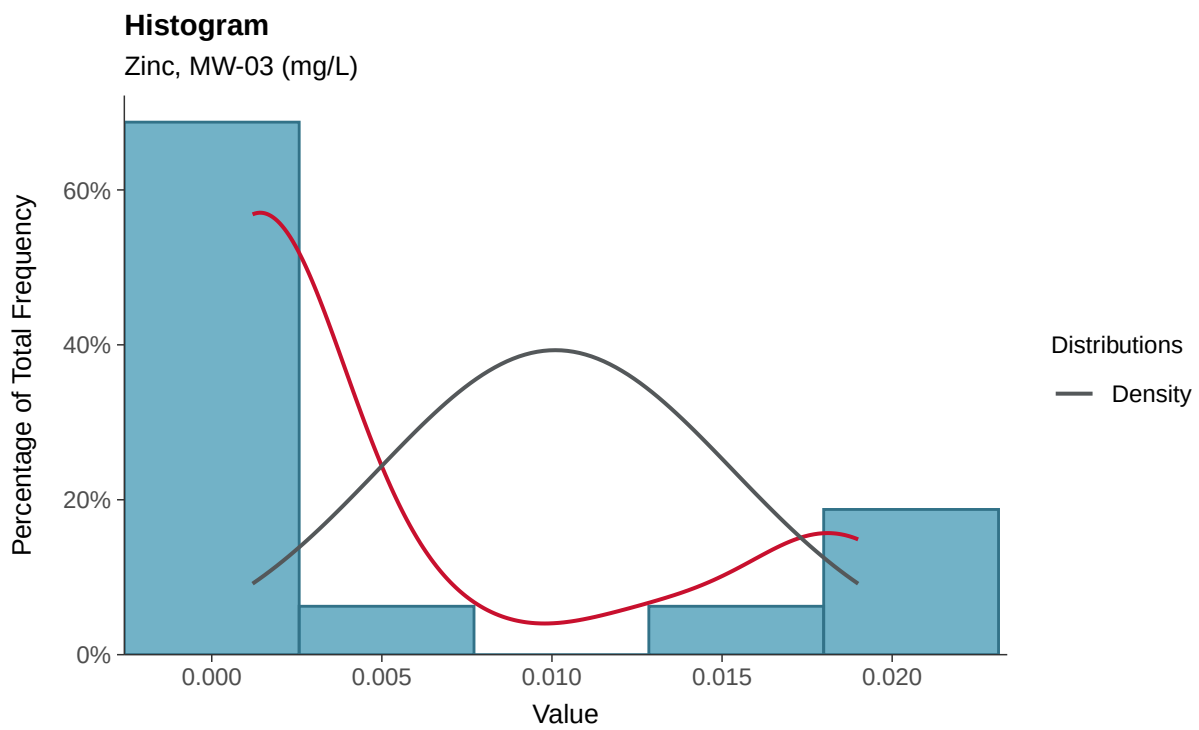




Trend Regression: Piecewise Linear-Linear-Linear

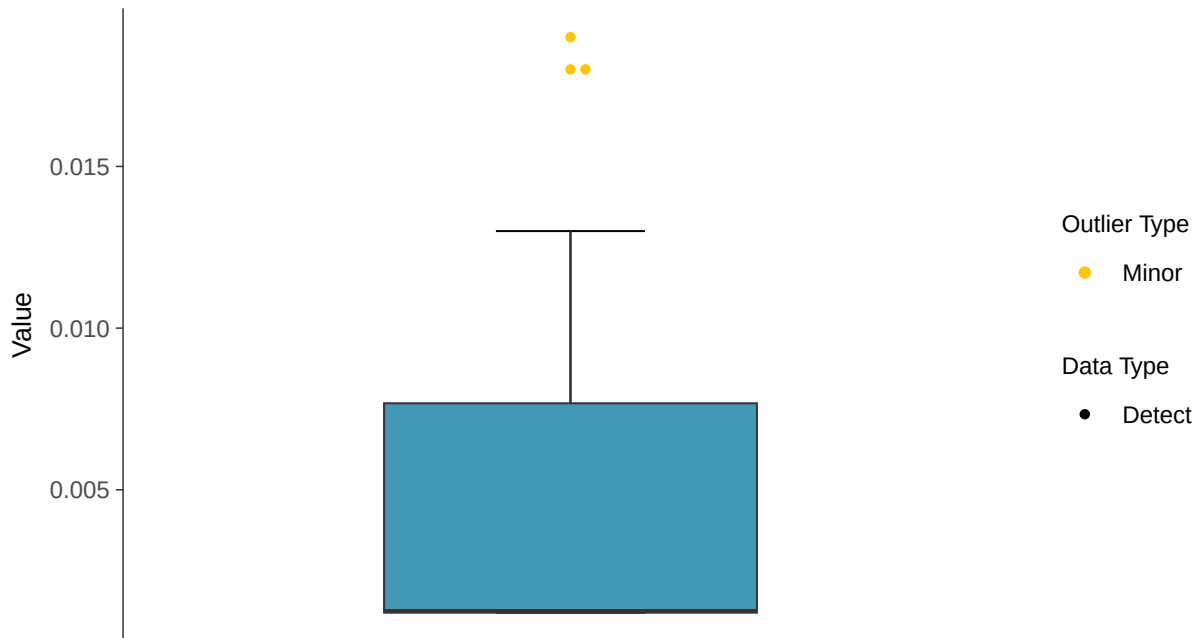
Vanadium, MW-03 (mg/L)





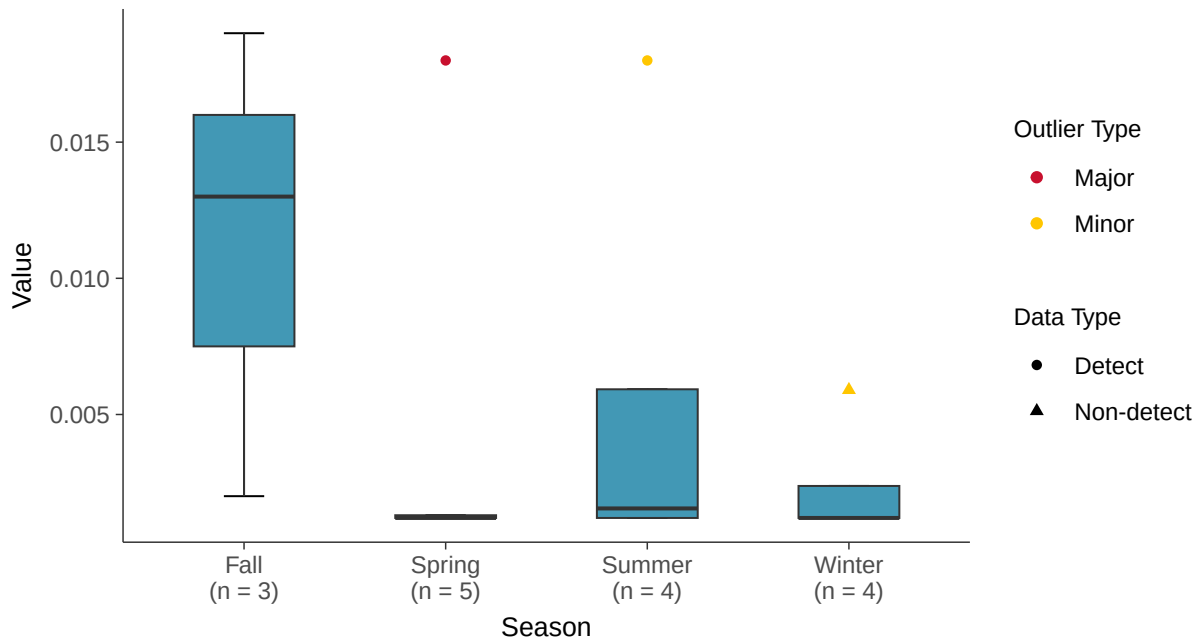
Boxplot

Zinc, MW-03 (mg/L)



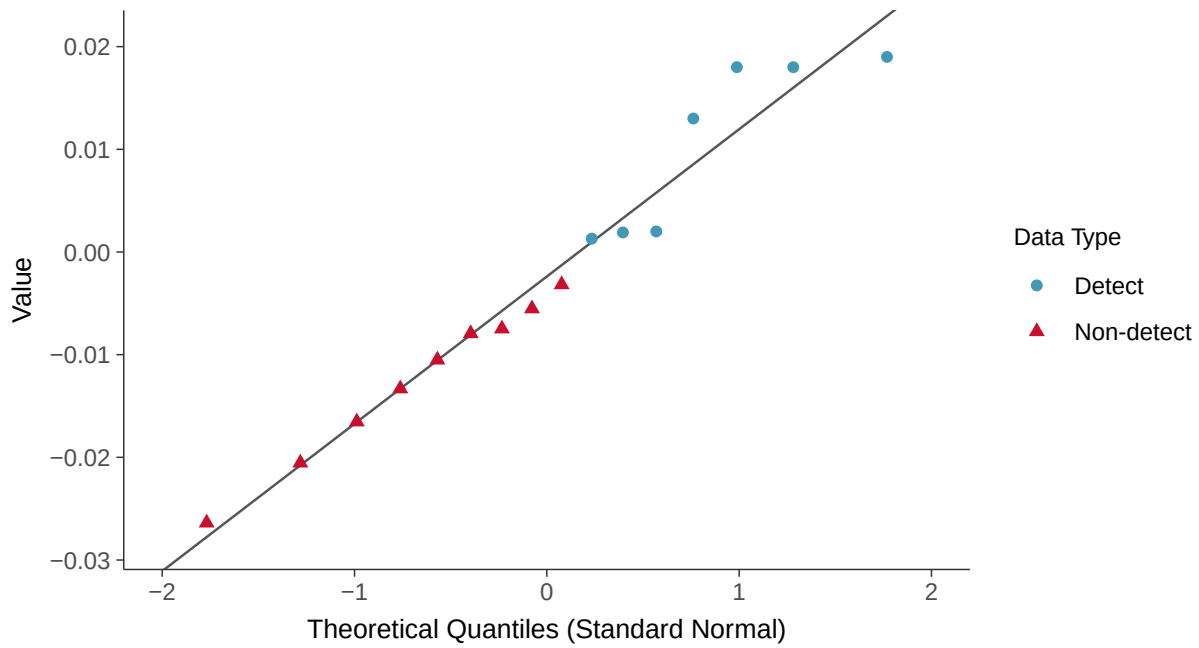
Boxplot by Season

Zinc, MW-03 (mg/L)



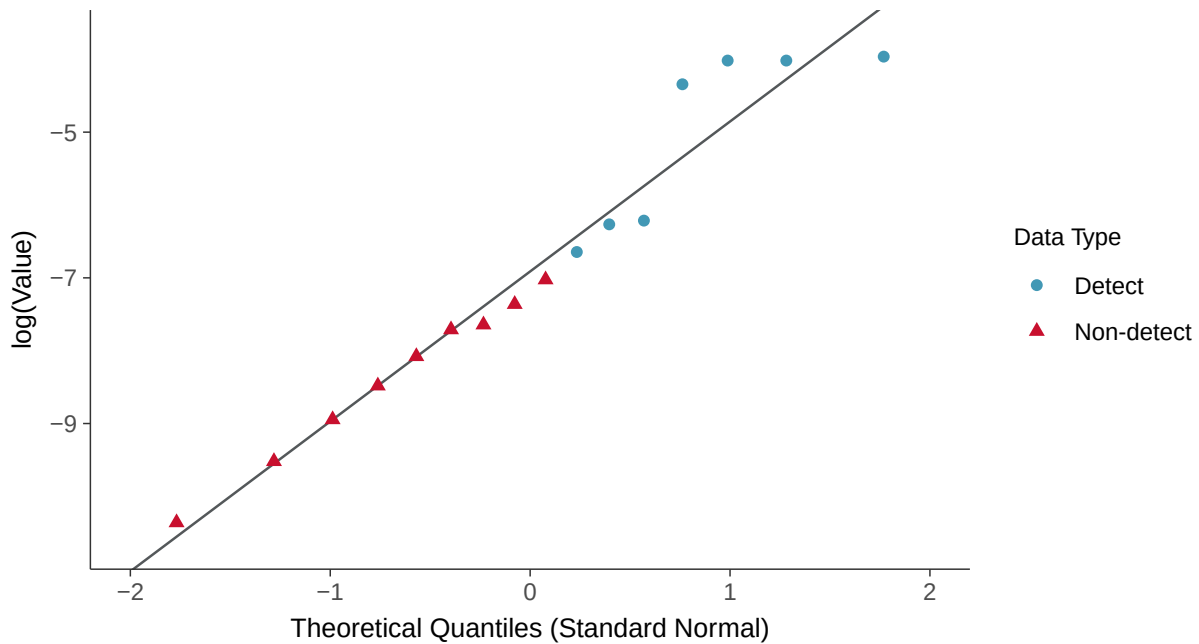
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-03 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

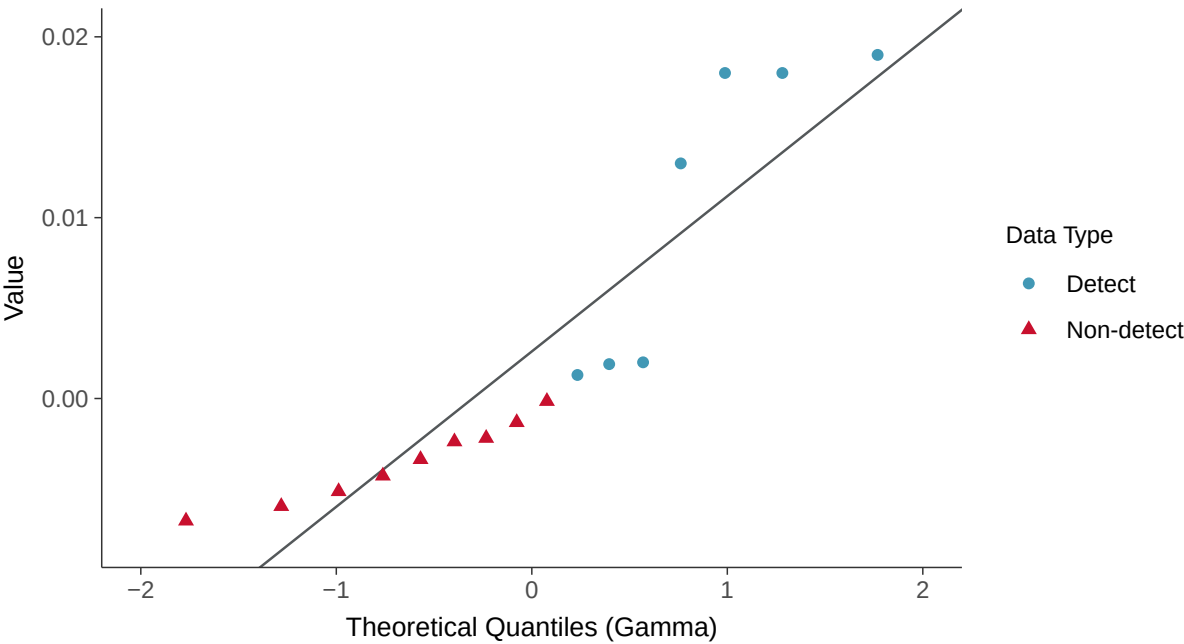
Zinc, MW-03 (mg/L)





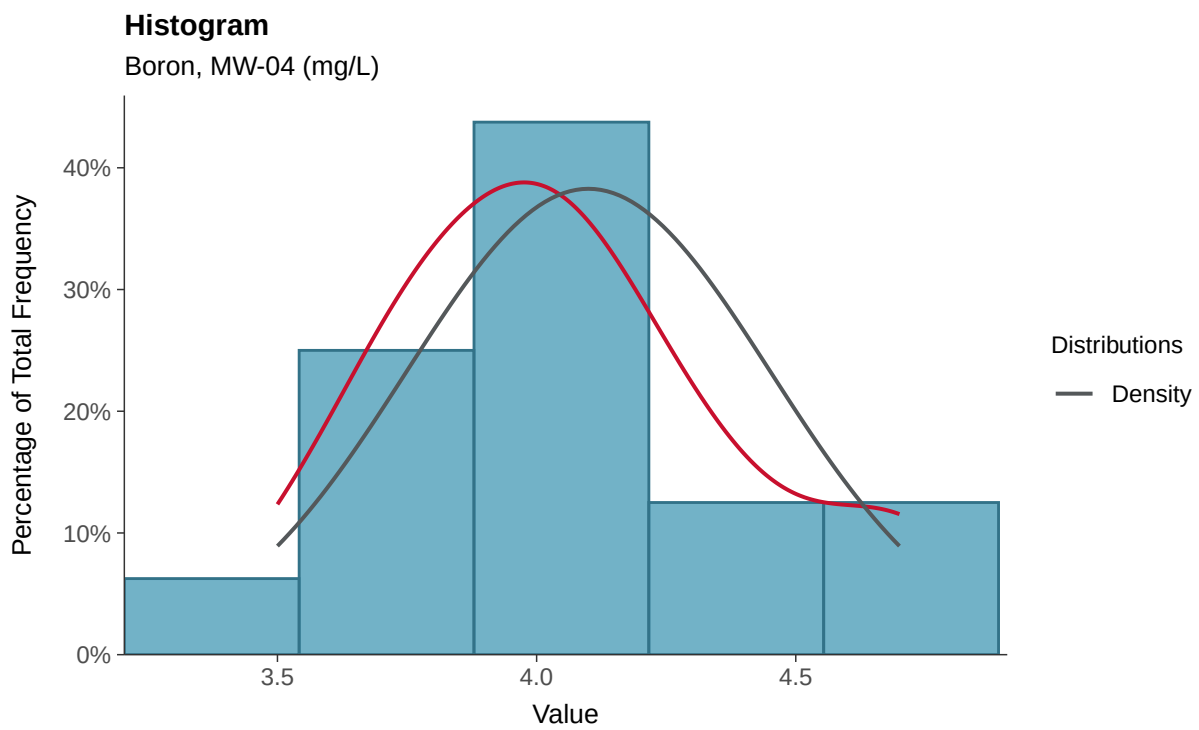
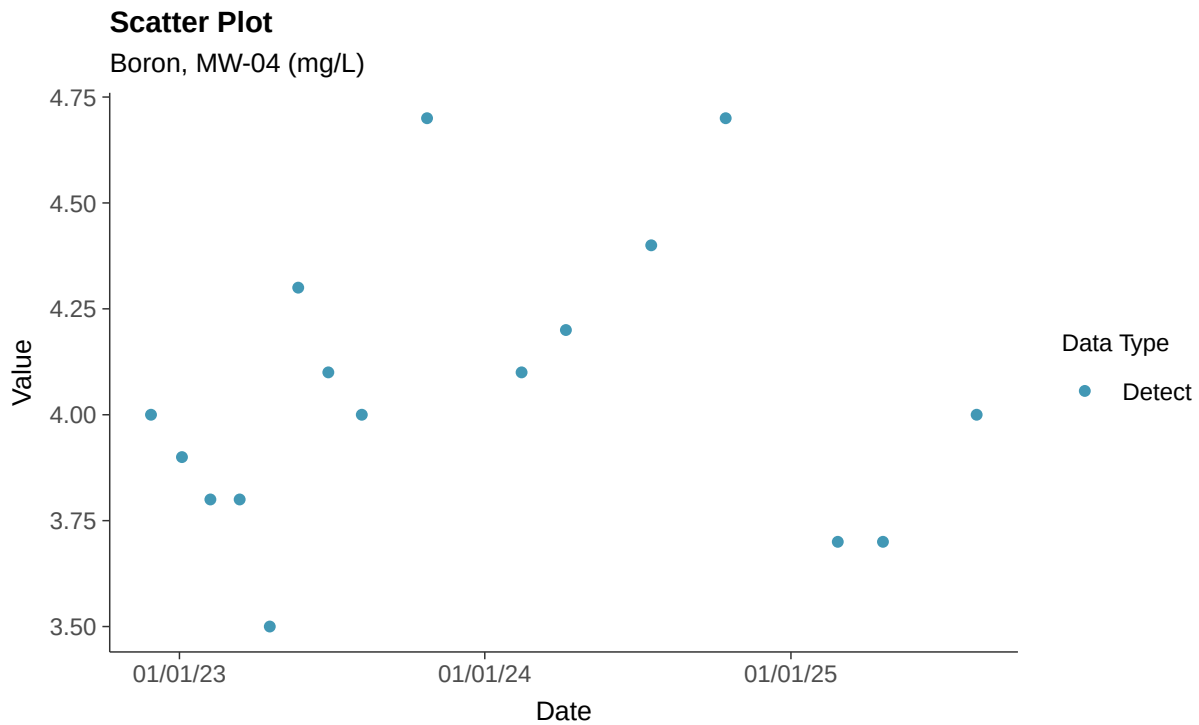
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-03 (mg/L)



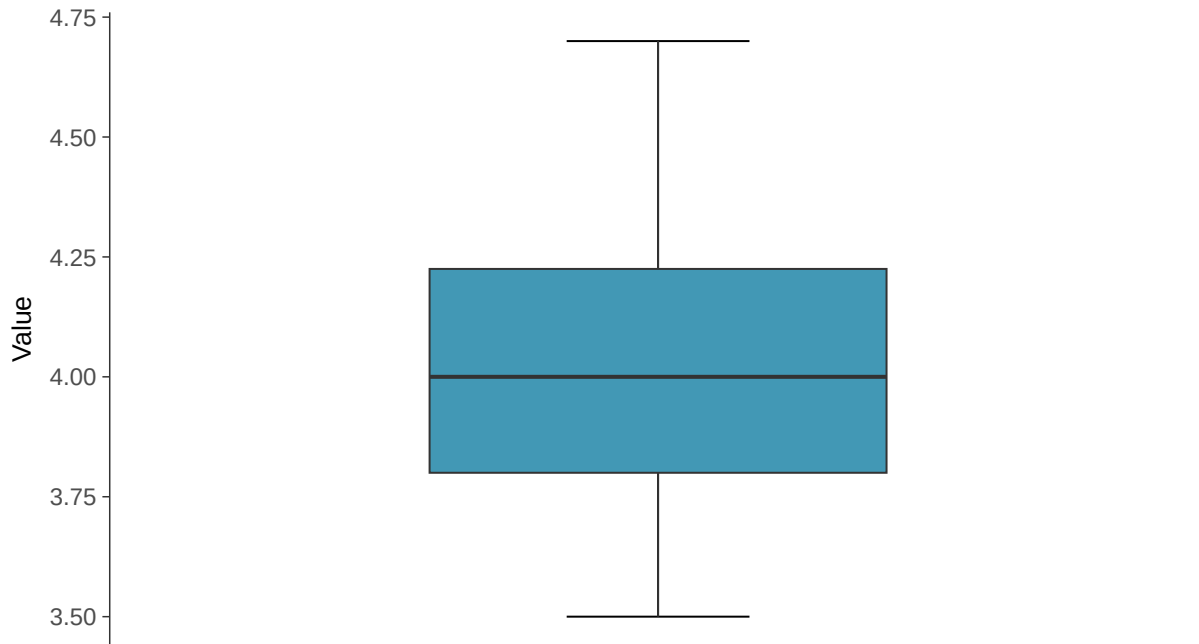
Appendix III: Boron, MW-04

ID: 14_2_3_105



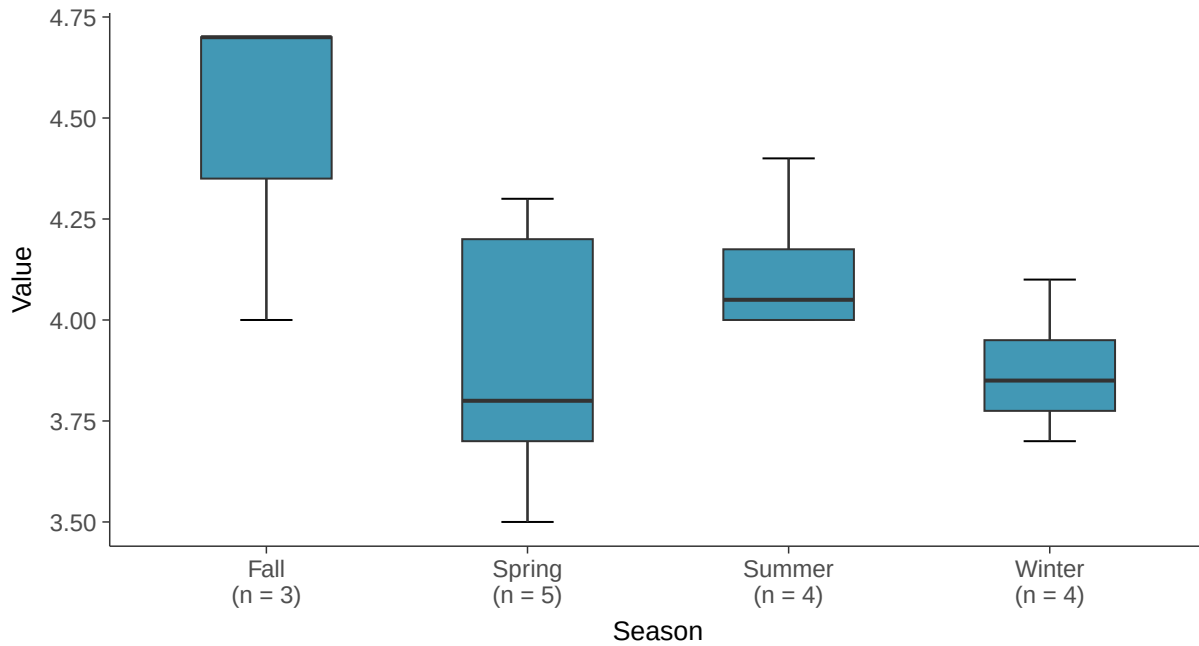
Boxplot

Boron, MW-04 (mg/L)



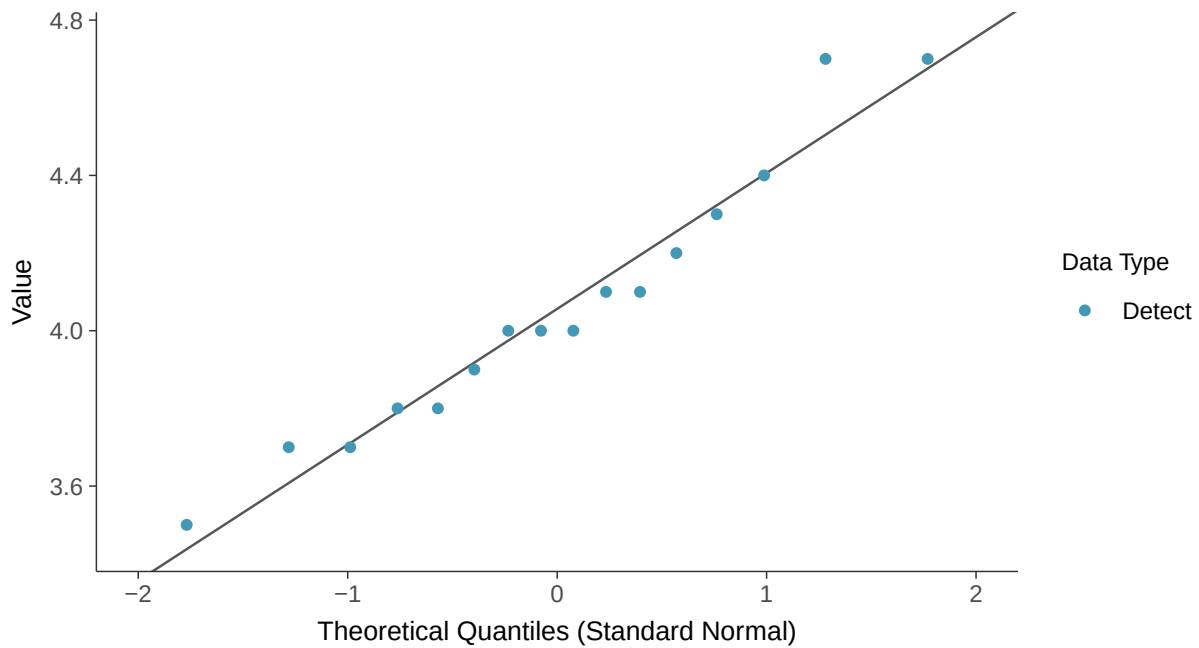
Boxplot by Season

Boron, MW-04 (mg/L)



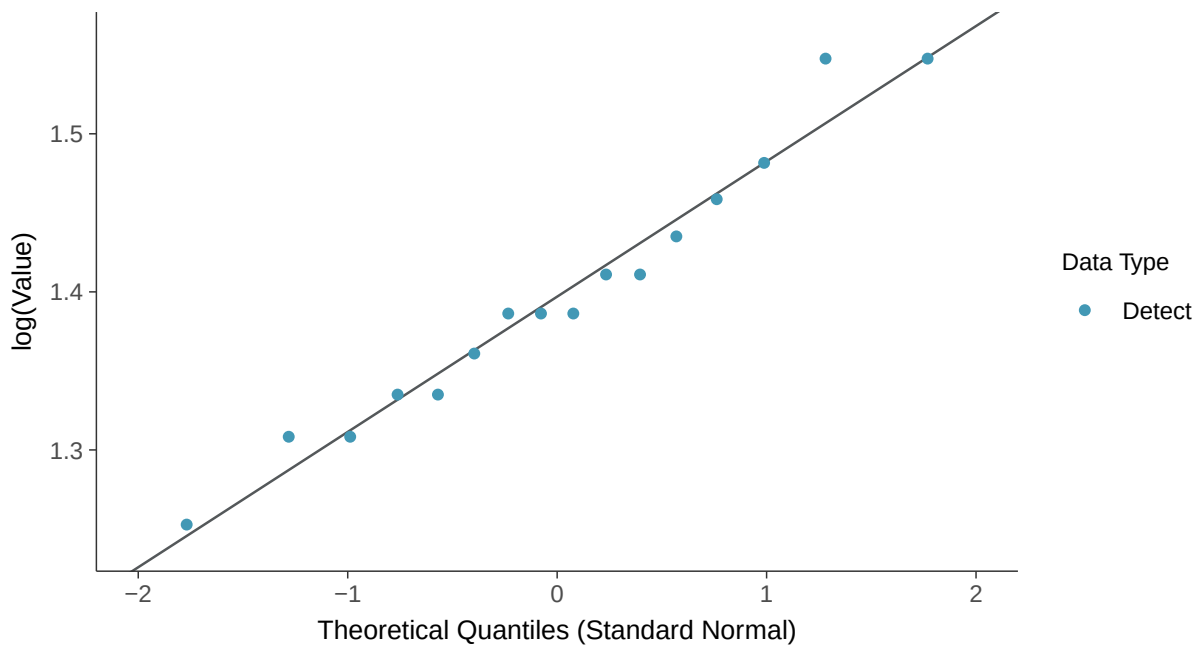
Normal Q-Q plot

Boron, MW-04 (mg/L)



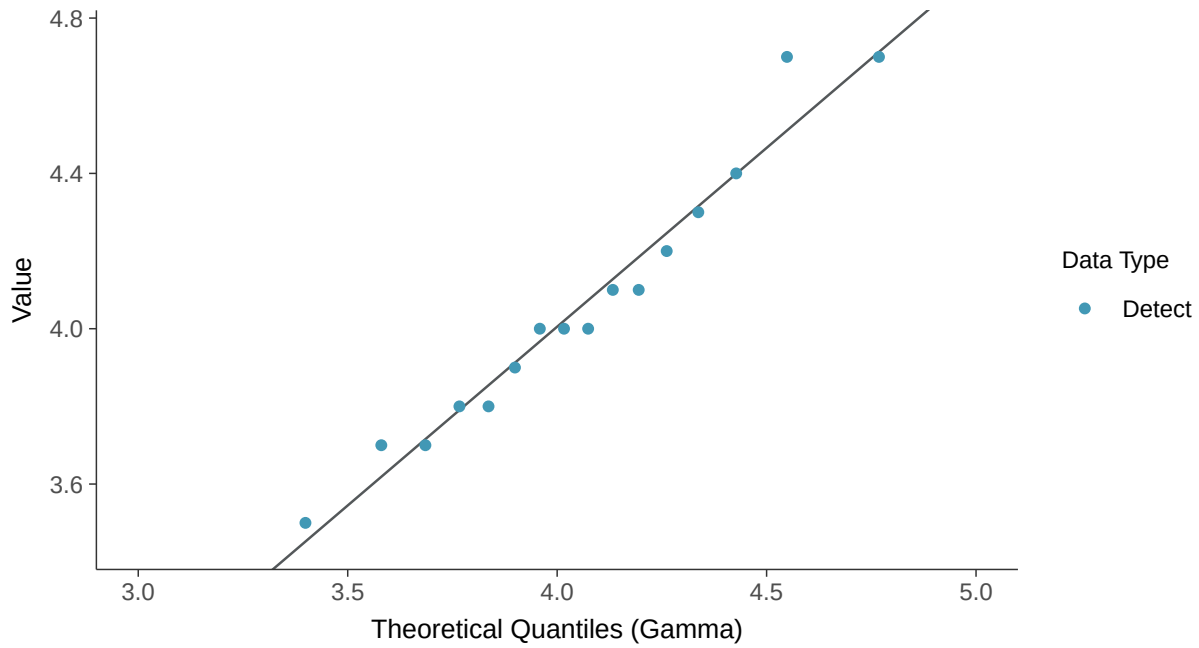
Lognormal Q-Q plot

Boron, MW-04 (mg/L)



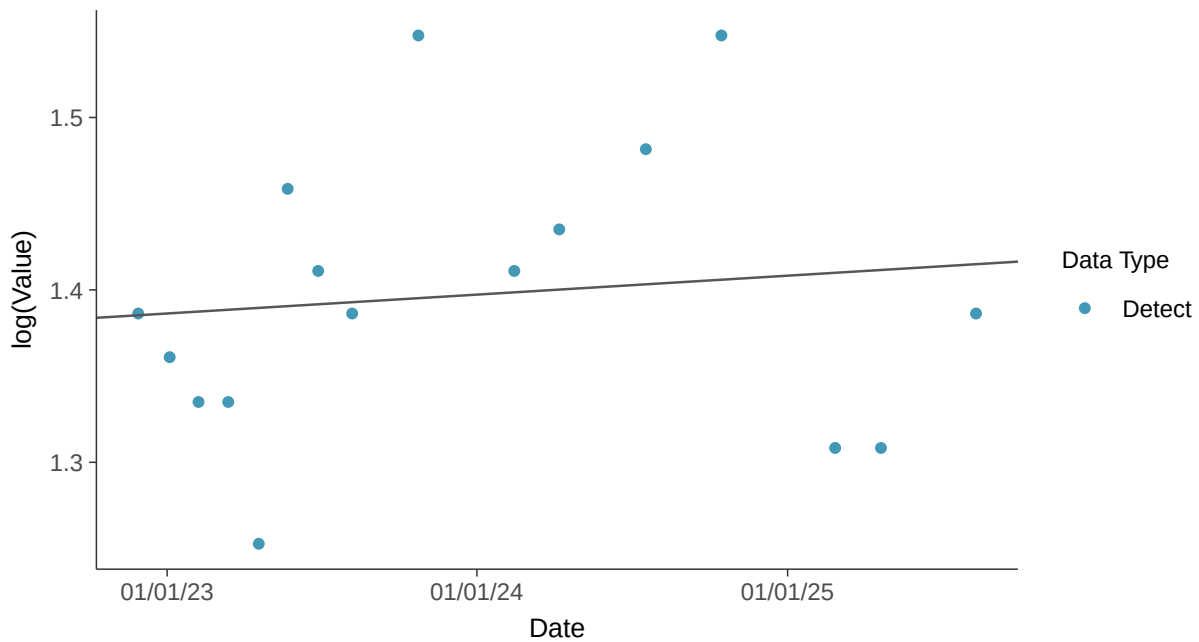
Gamma Q-Q plot

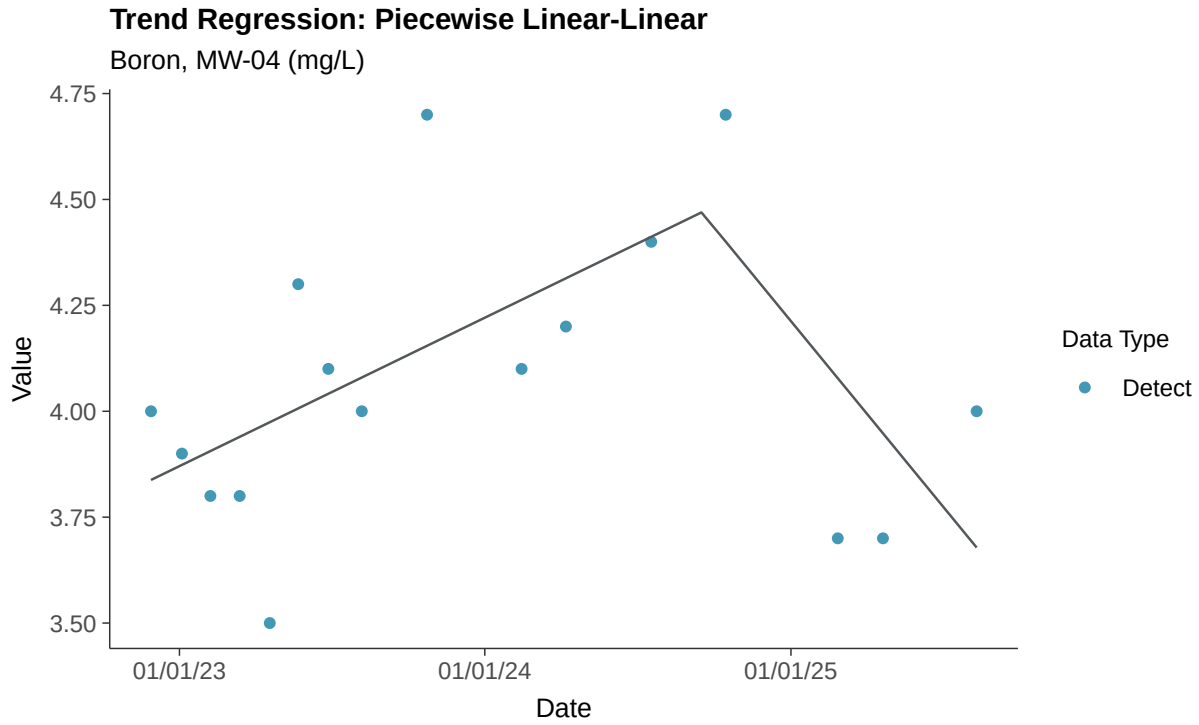
Boron, MW-04 (mg/L)



Trend Regression: Lognormal MLE

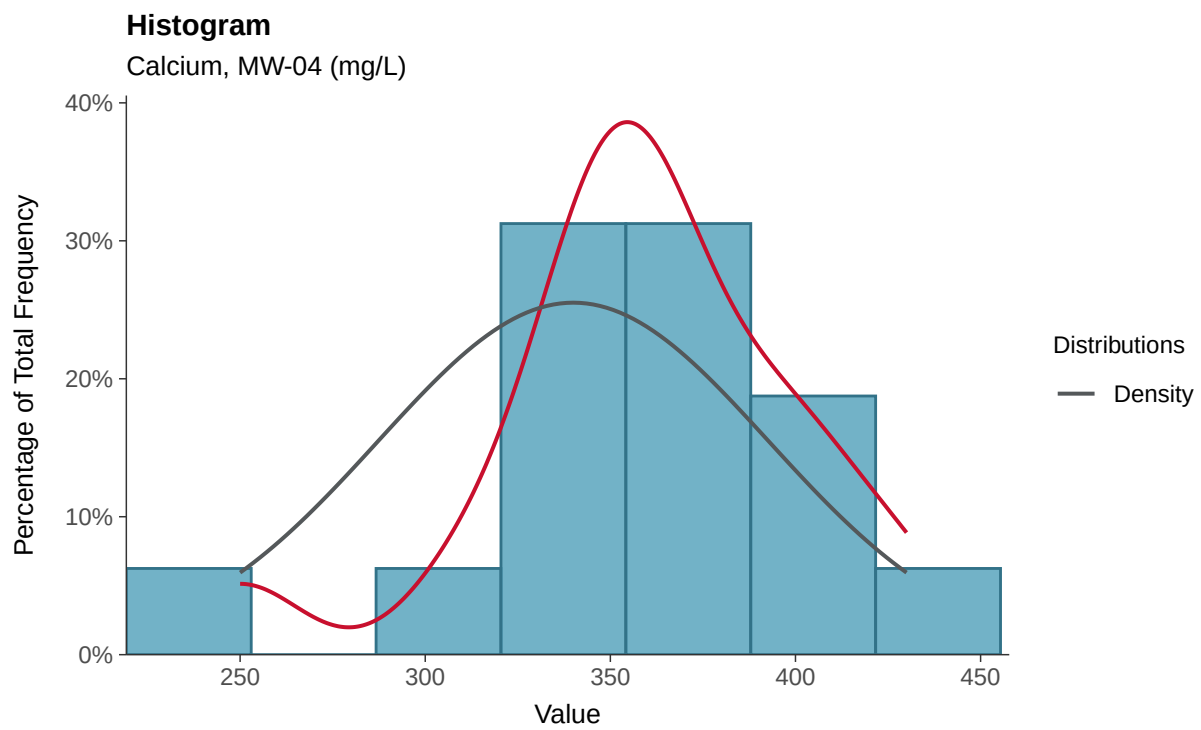
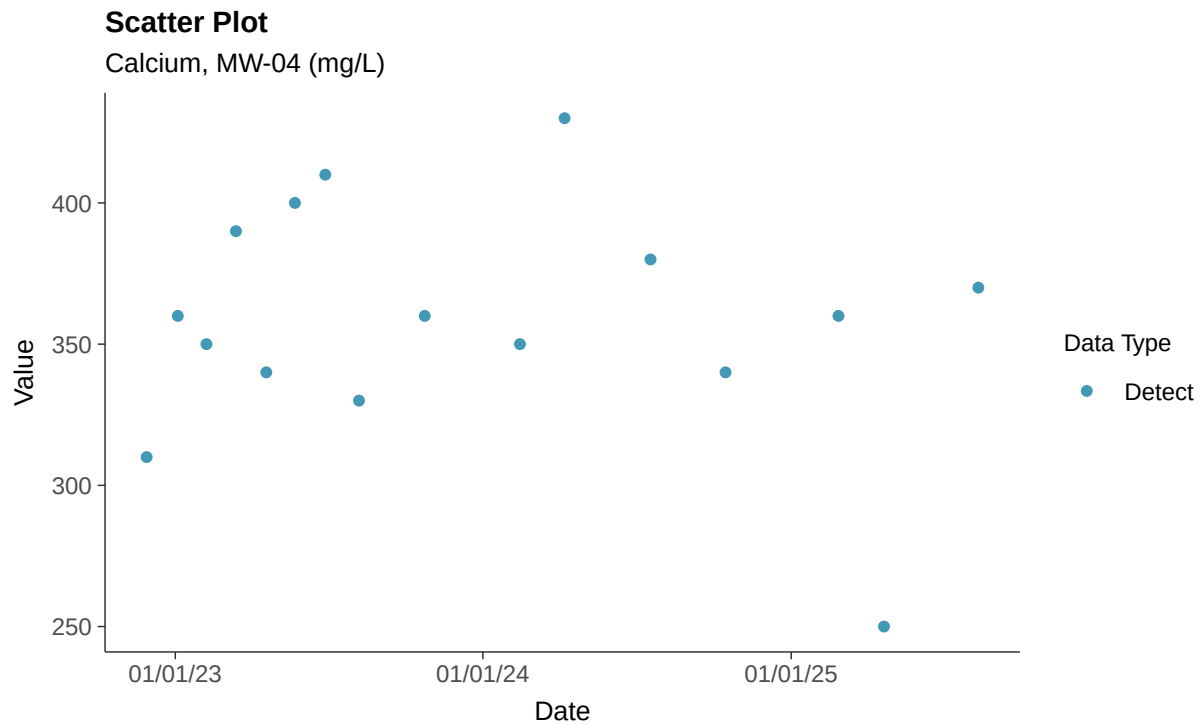
Boron, MW-04 (mg/L)





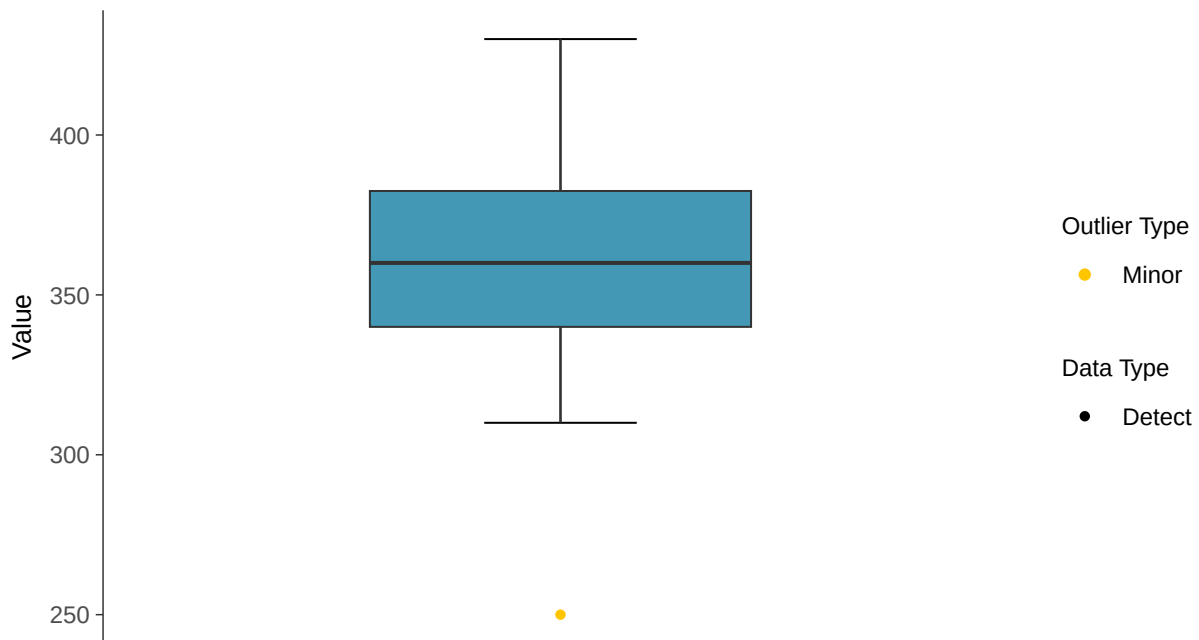
Appendix III: Calcium, MW-04

ID: 14_2_3_107



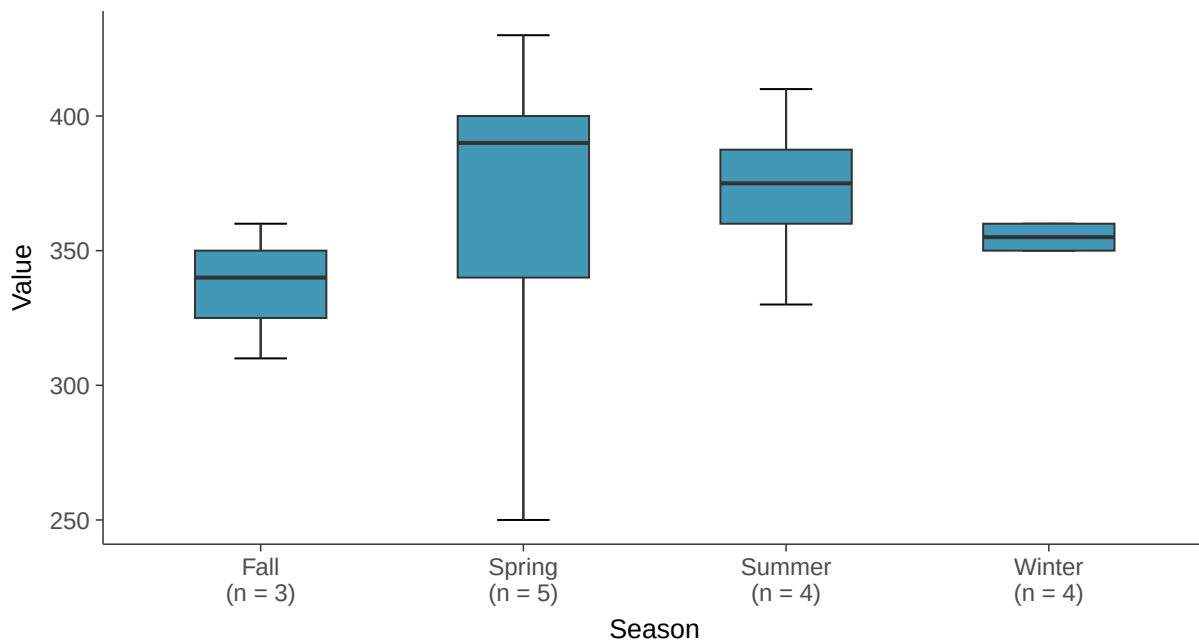
Boxplot

Calcium, MW-04 (mg/L)



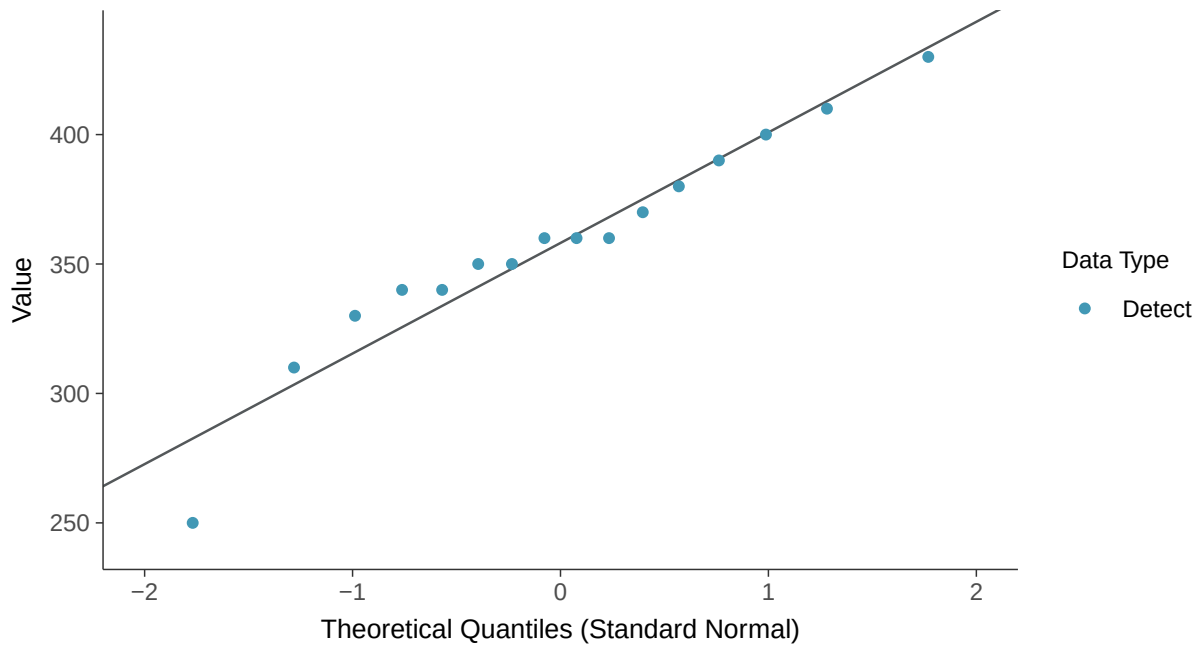
Boxplot by Season

Calcium, MW-04 (mg/L)



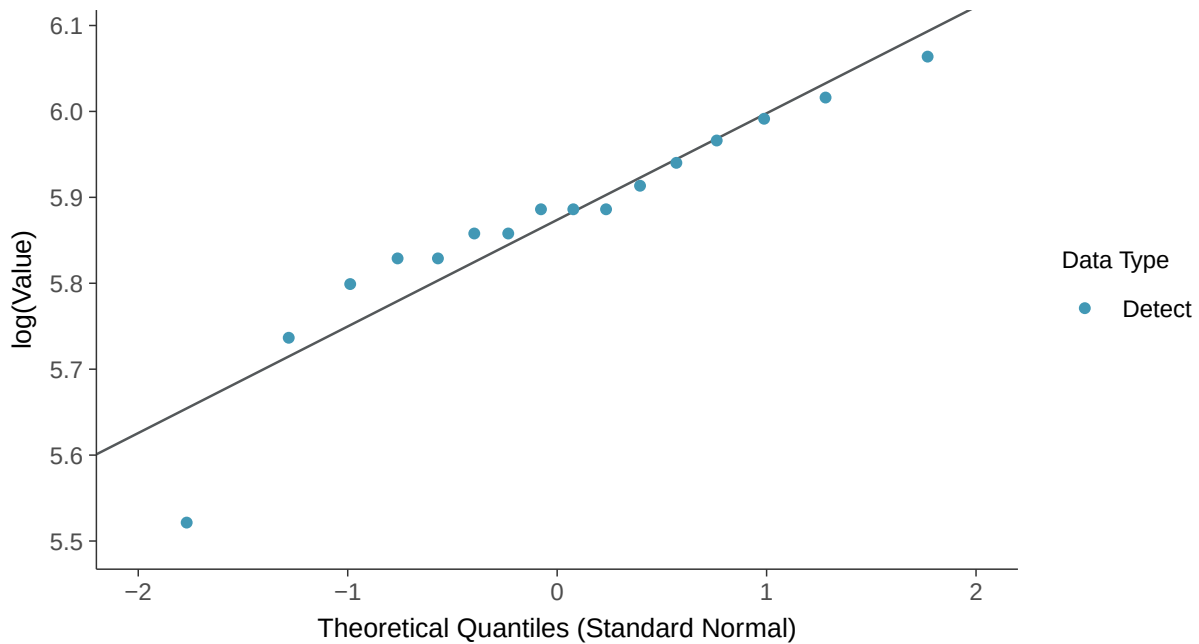
Normal Q-Q plot

Calcium, MW-04 (mg/L)



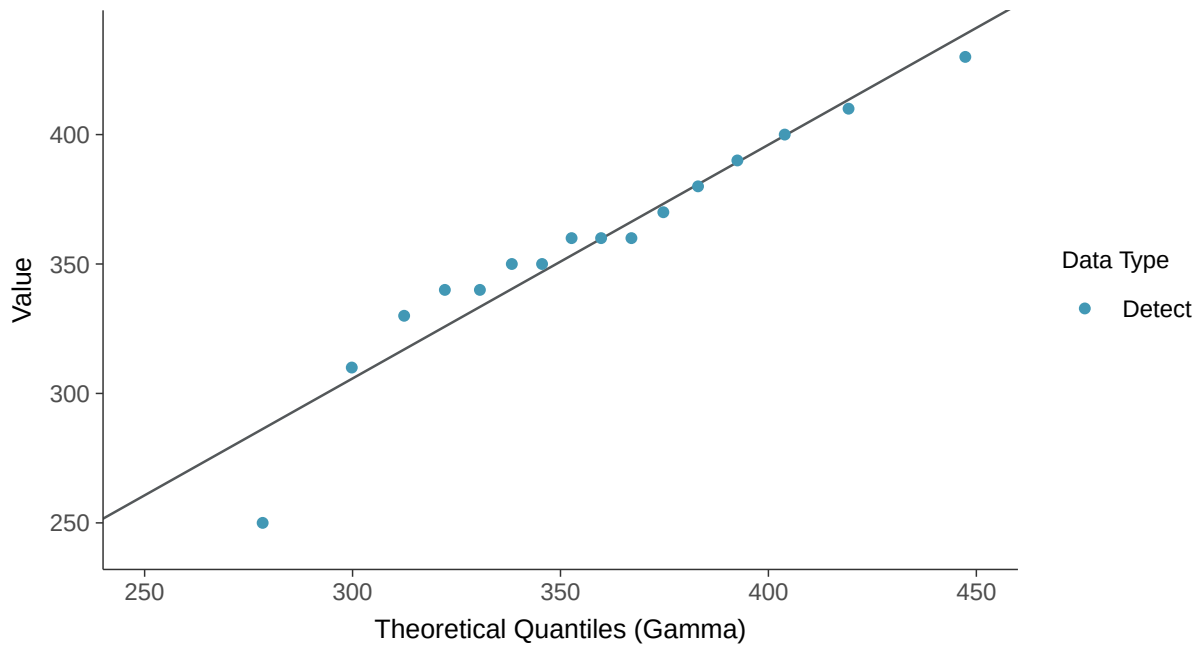
Lognormal Q-Q plot

Calcium, MW-04 (mg/L)



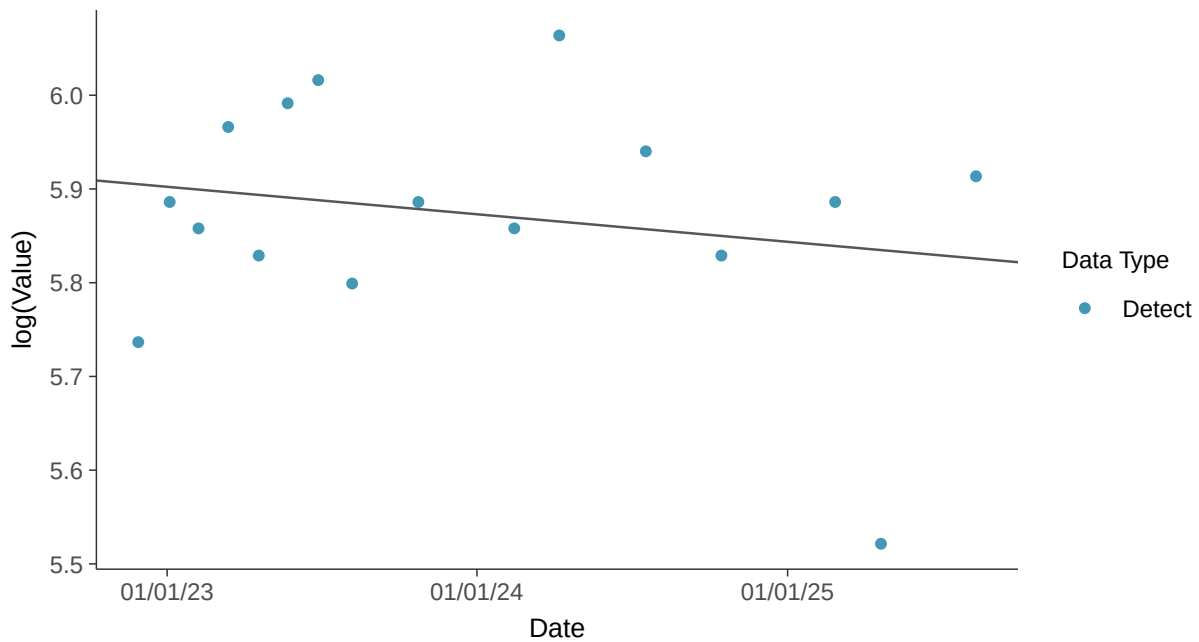
Gamma Q-Q plot

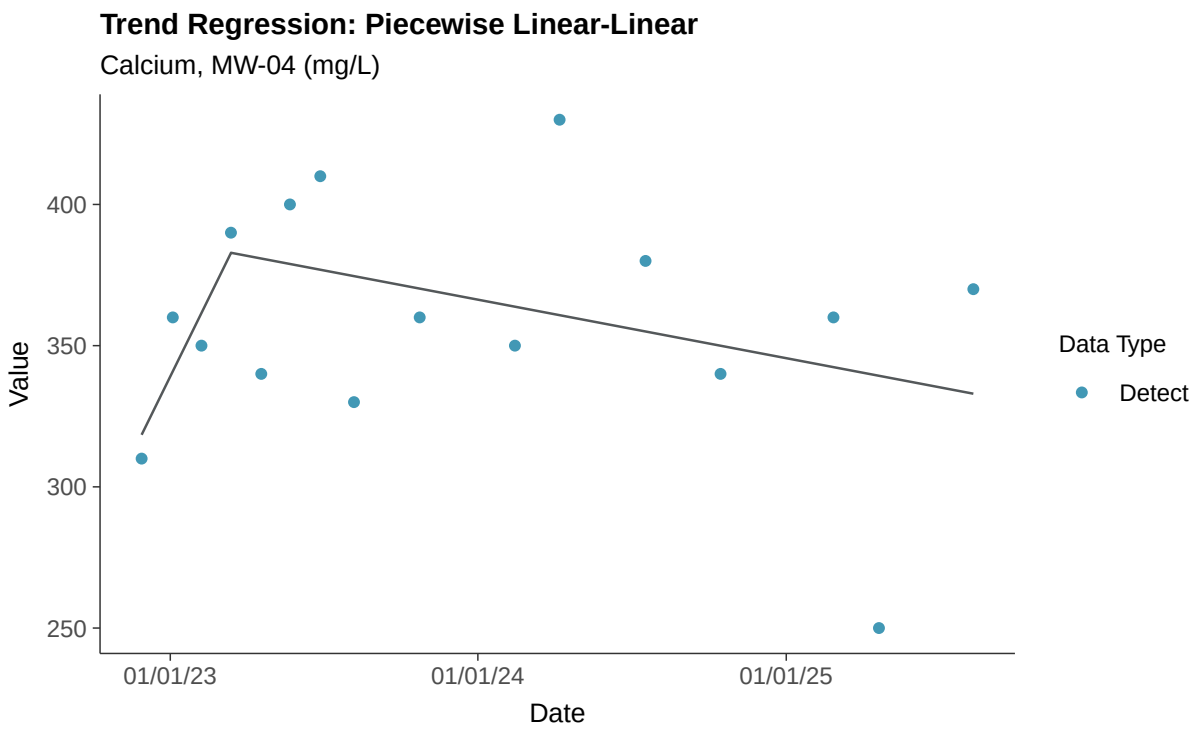
Calcium, MW-04 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-04 (mg/L)



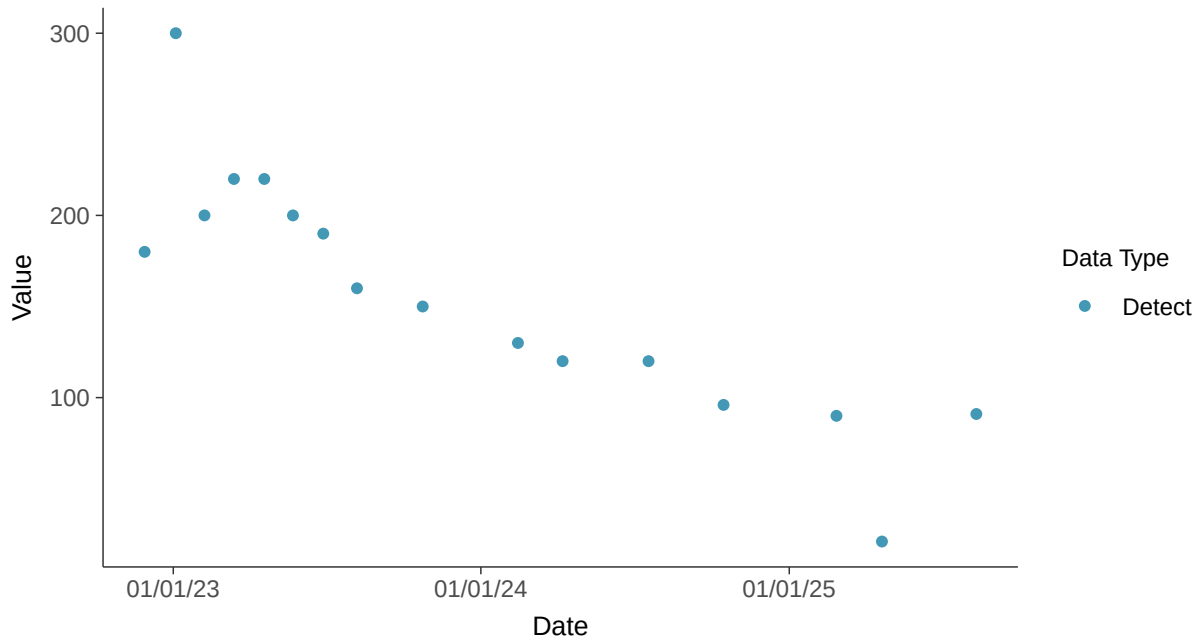


Appendix III: Chloride (as Cl), MW-04

ID: 14_2_3_108

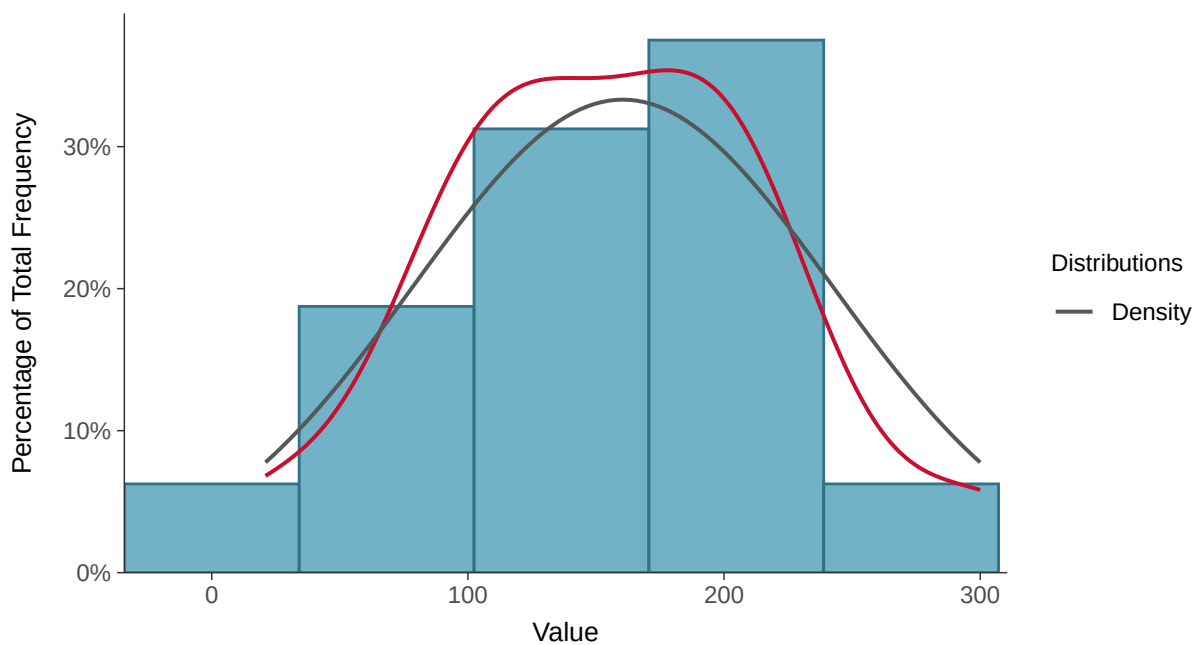
Scatter Plot

Chloride (as Cl), MW-04 (mg/L)



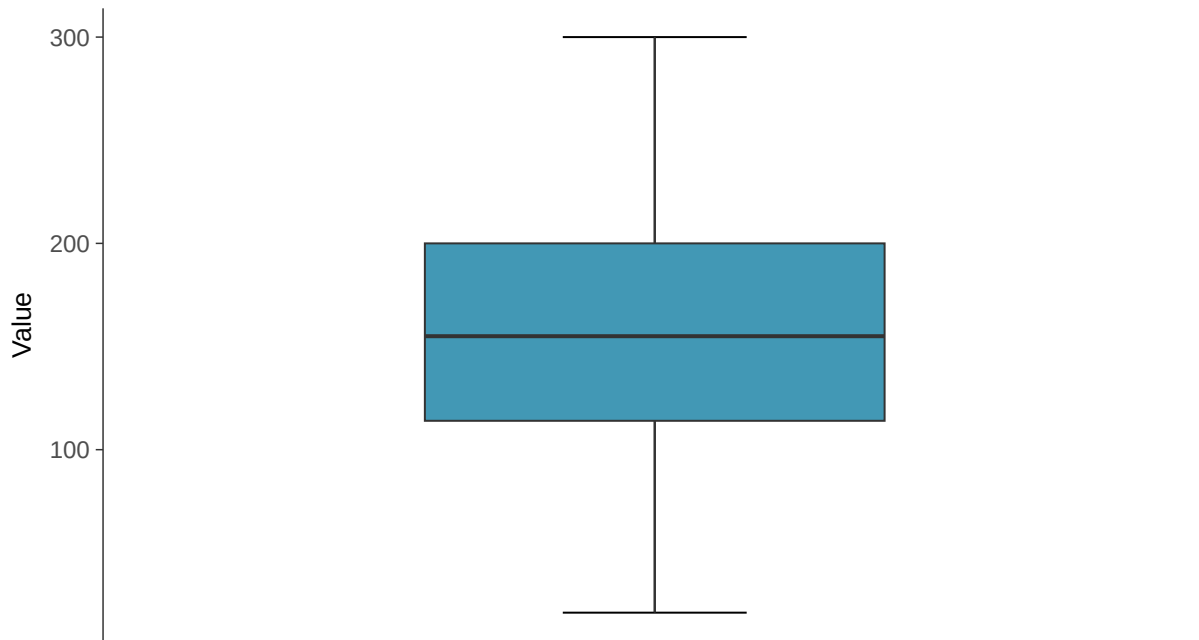
Histogram

Chloride (as Cl), MW-04 (mg/L)



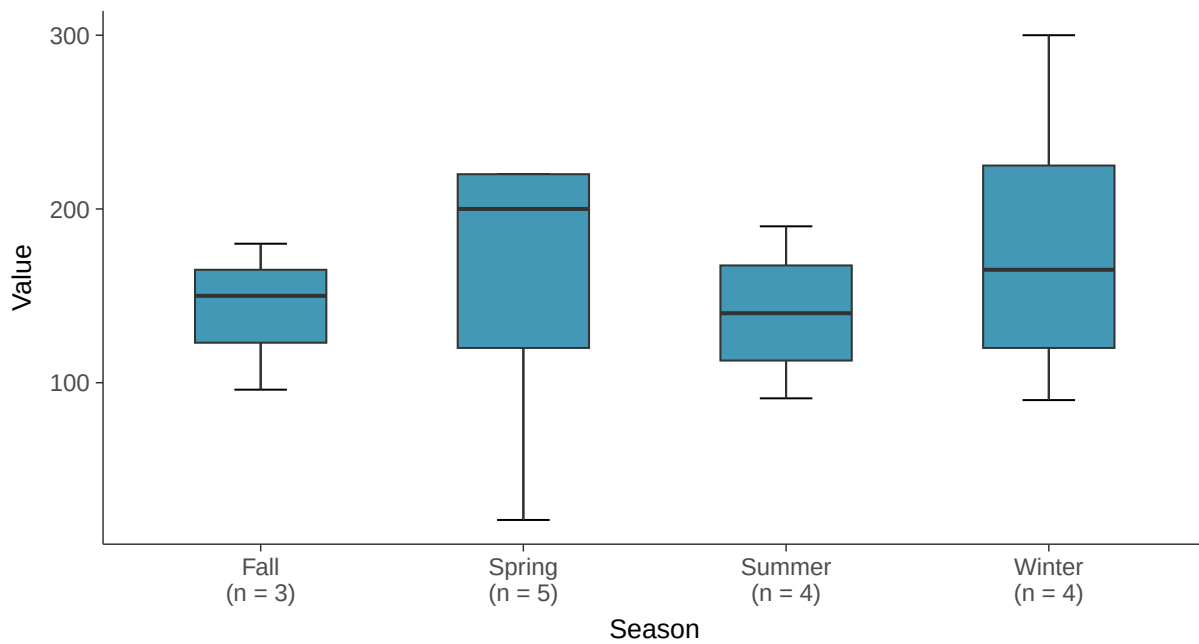
Boxplot

Chloride (as Cl), MW-04 (mg/L)



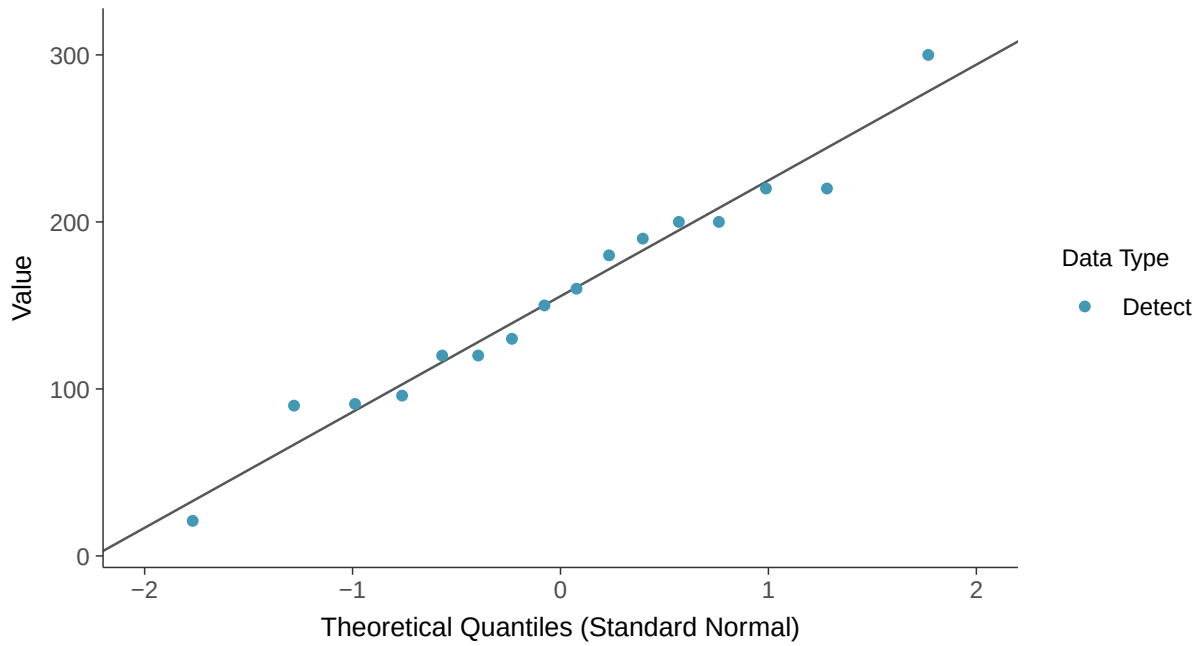
Boxplot by Season

Chloride (as Cl), MW-04 (mg/L)



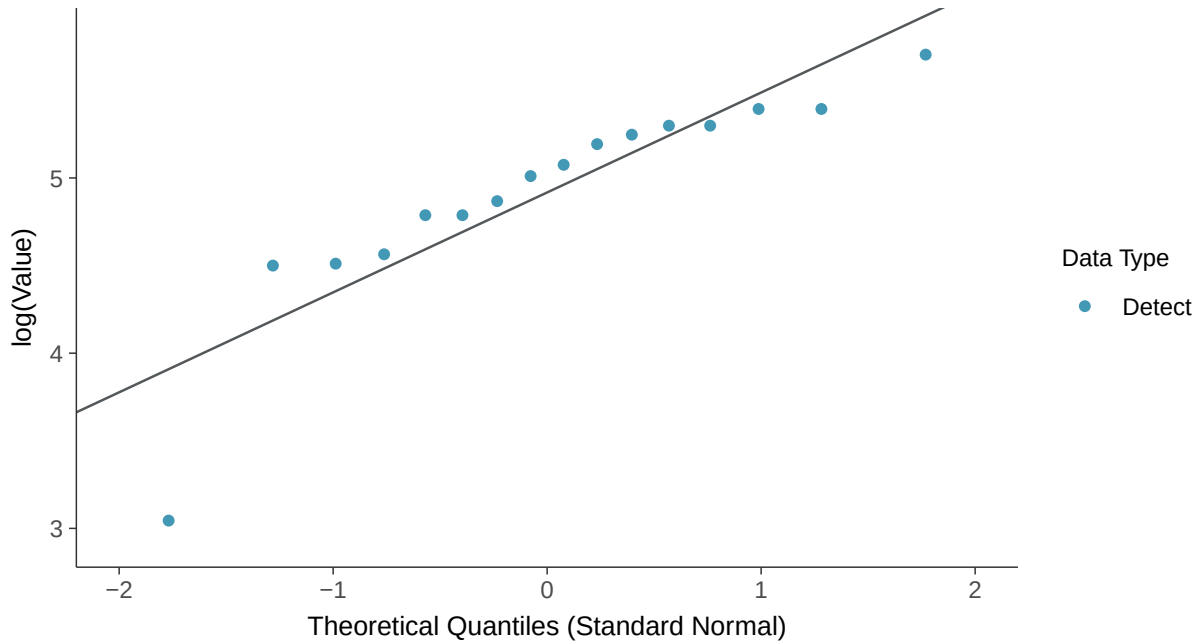
Normal Q-Q plot

Chloride (as Cl), MW-04 (mg/L)



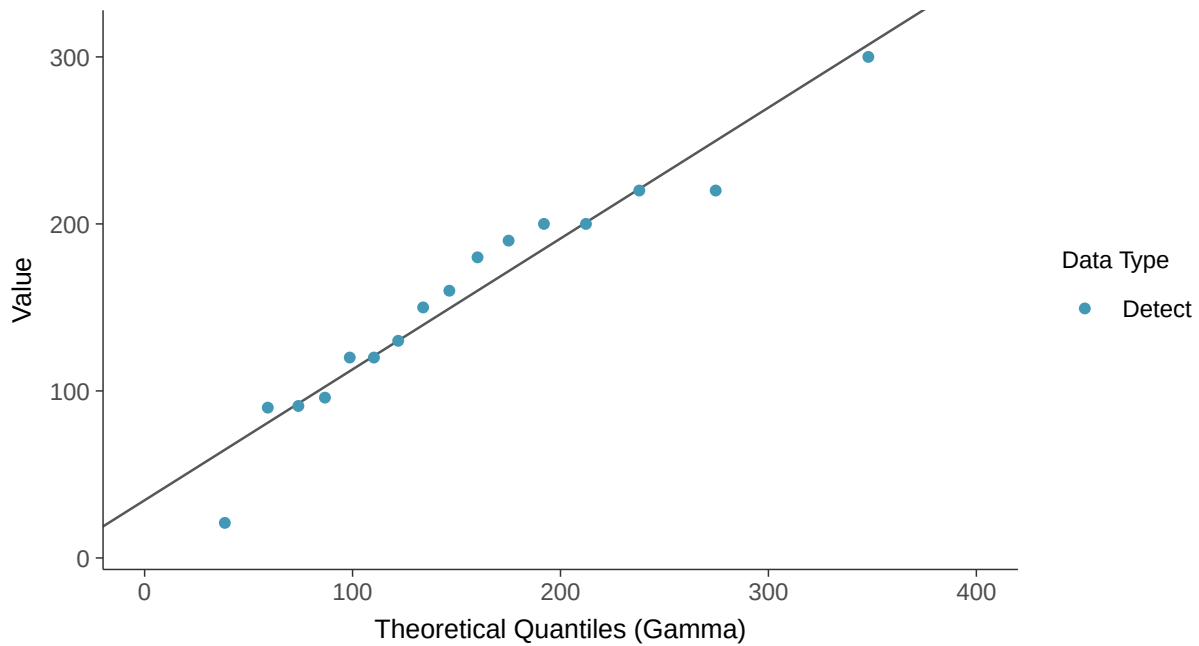
Lognormal Q-Q plot

Chloride (as Cl), MW-04 (mg/L)



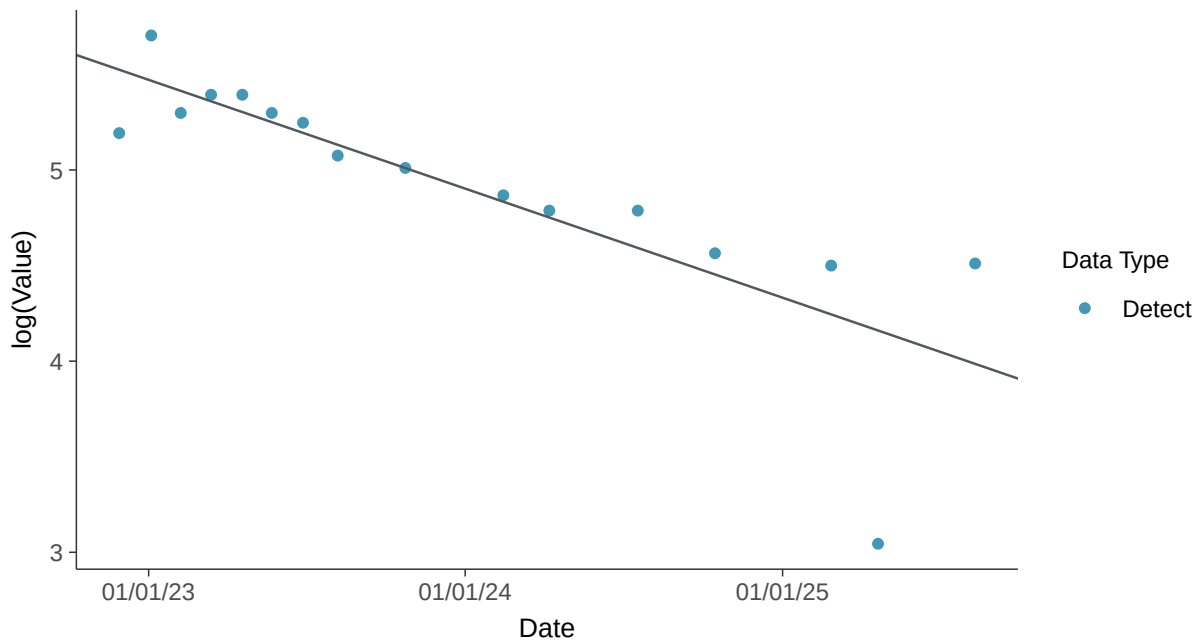
Gamma Q-Q plot

Chloride (as Cl), MW-04 (mg/L)



Trend Regression: Lognormal MLE

Chloride (as Cl), MW-04 (mg/L)

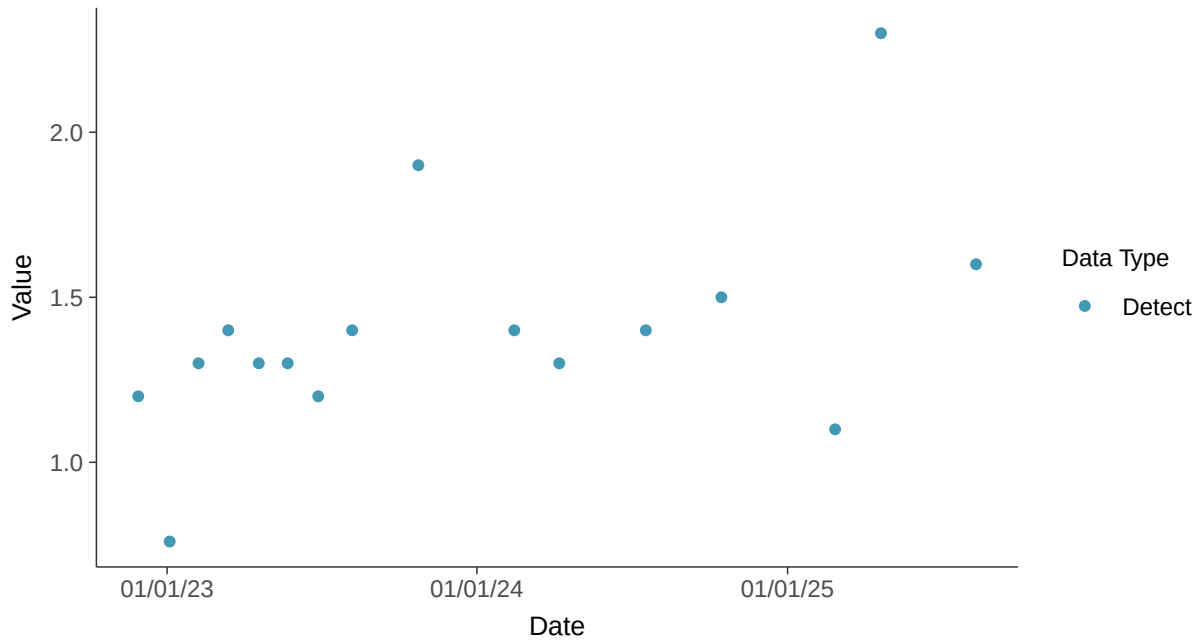


Appendix III: Fluoride, MW-04

ID: 14_2_3_112

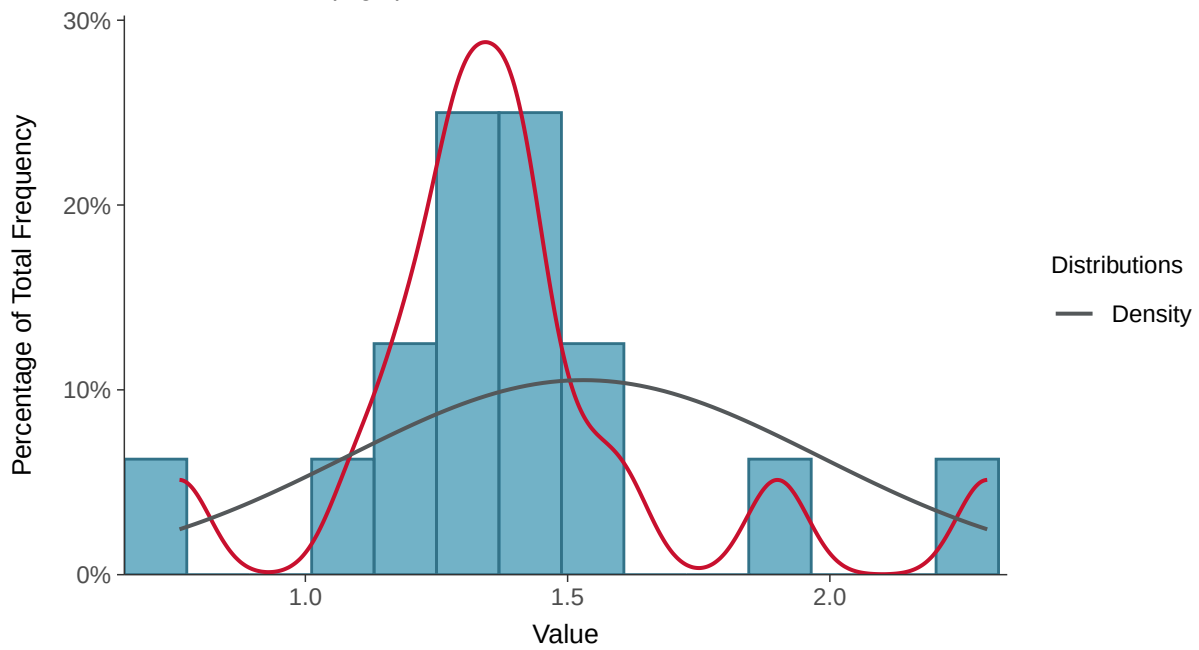
Scatter Plot

Fluoride, MW-04 (mg/L)



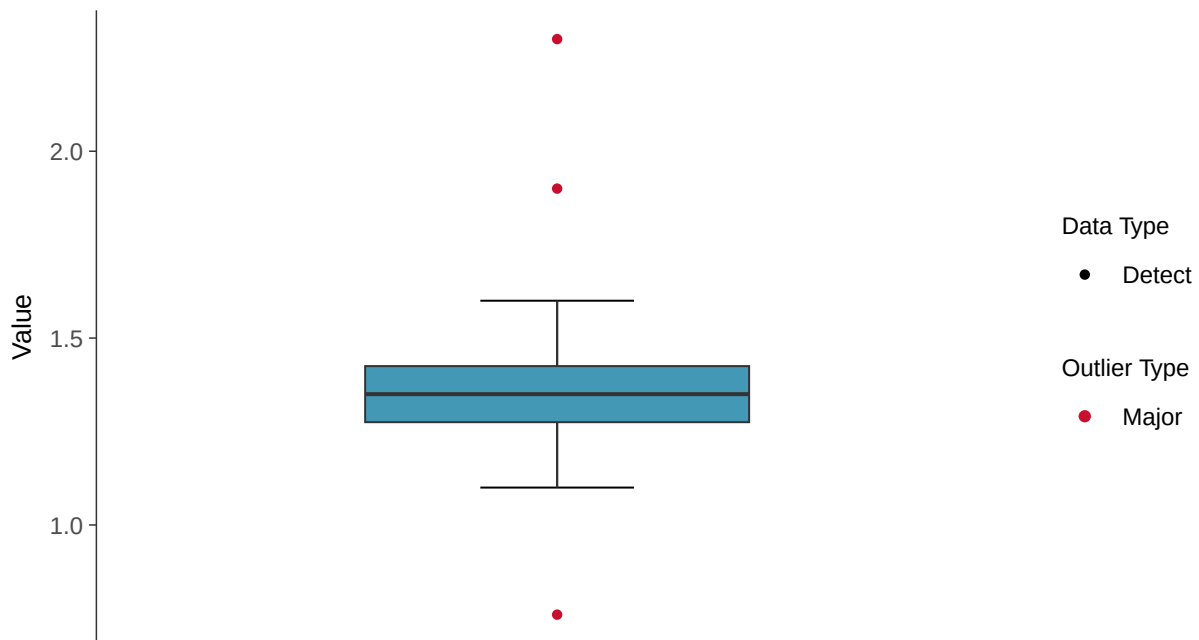
Histogram

Fluoride, MW-04 (mg/L)



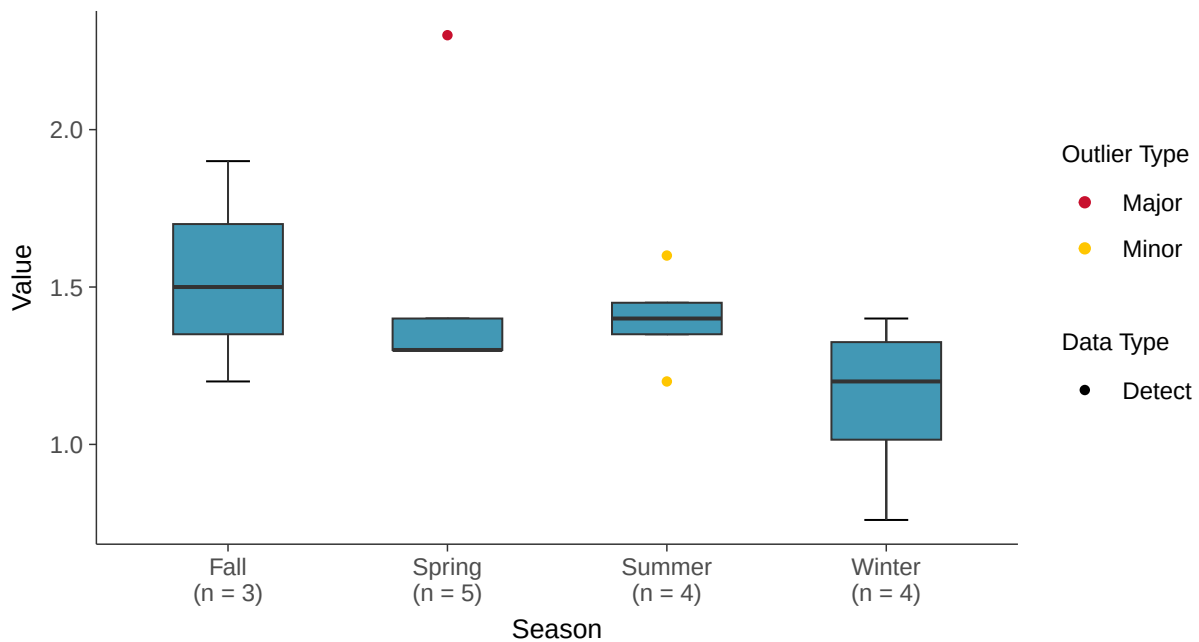
Boxplot

Fluoride, MW-04 (mg/L)



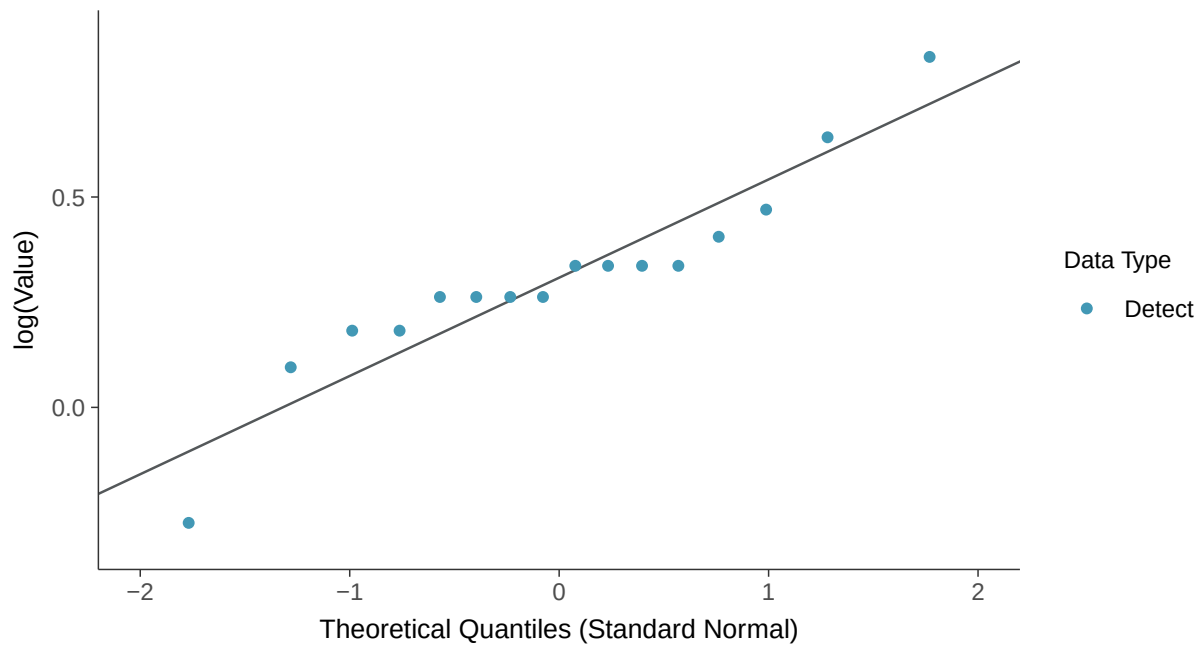
Boxplot by Season

Fluoride, MW-04 (mg/L)



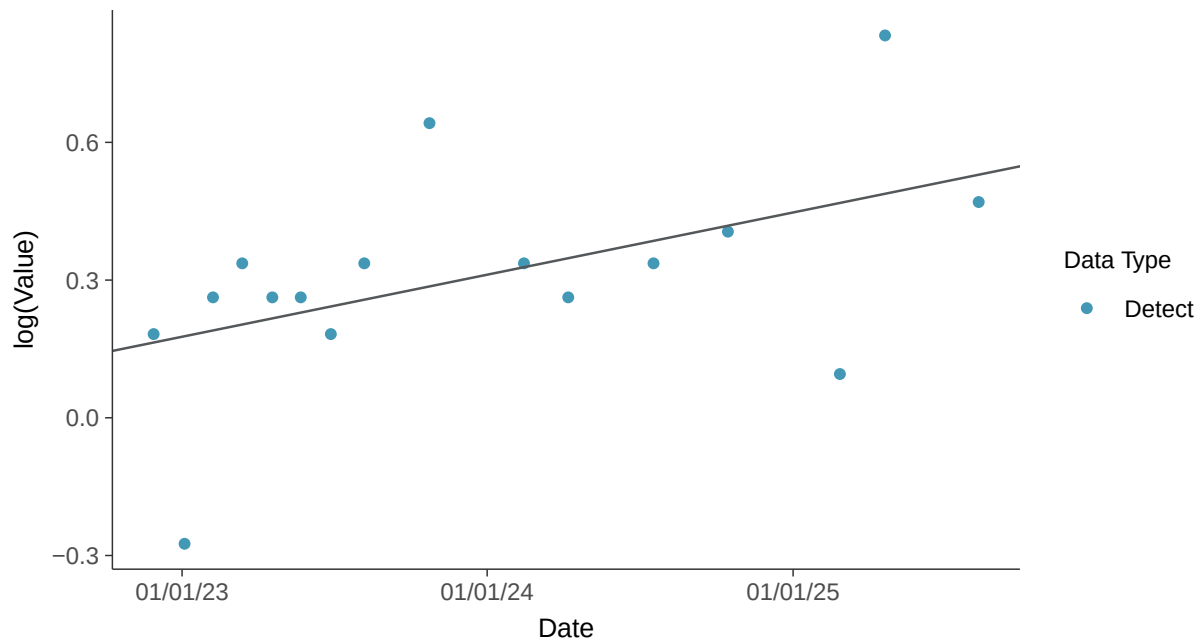
Lognormal Q-Q plot

Fluoride, MW-04 (mg/L)



Trend Regression: Lognormal MLE

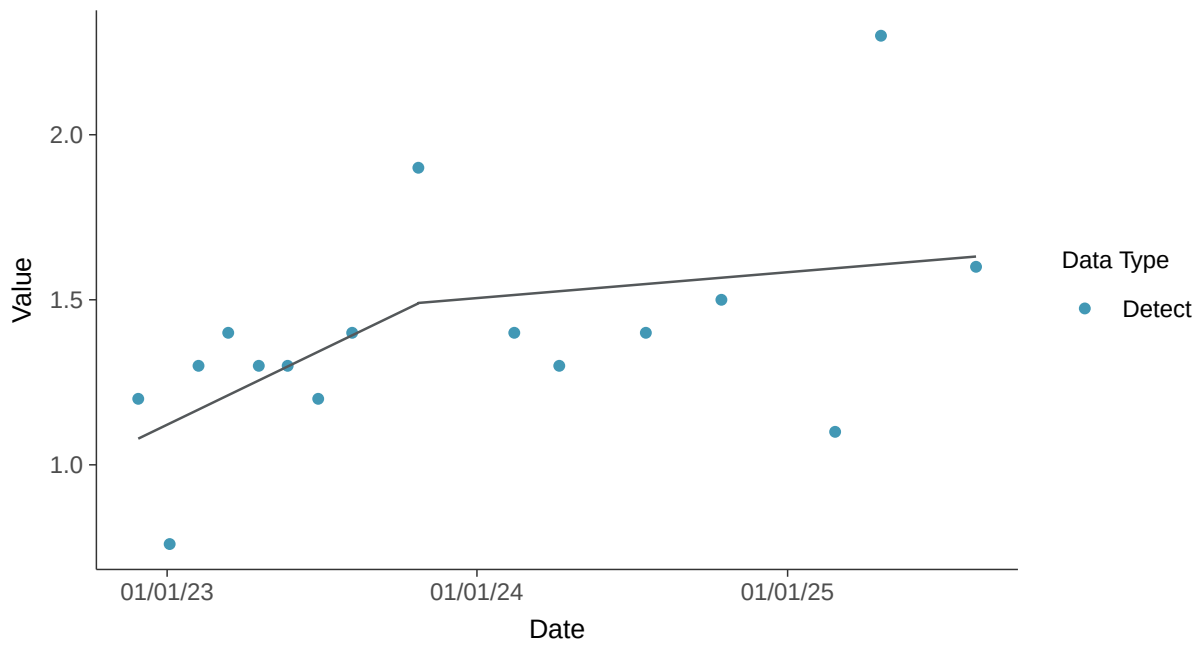
Fluoride, MW-04 (mg/L)





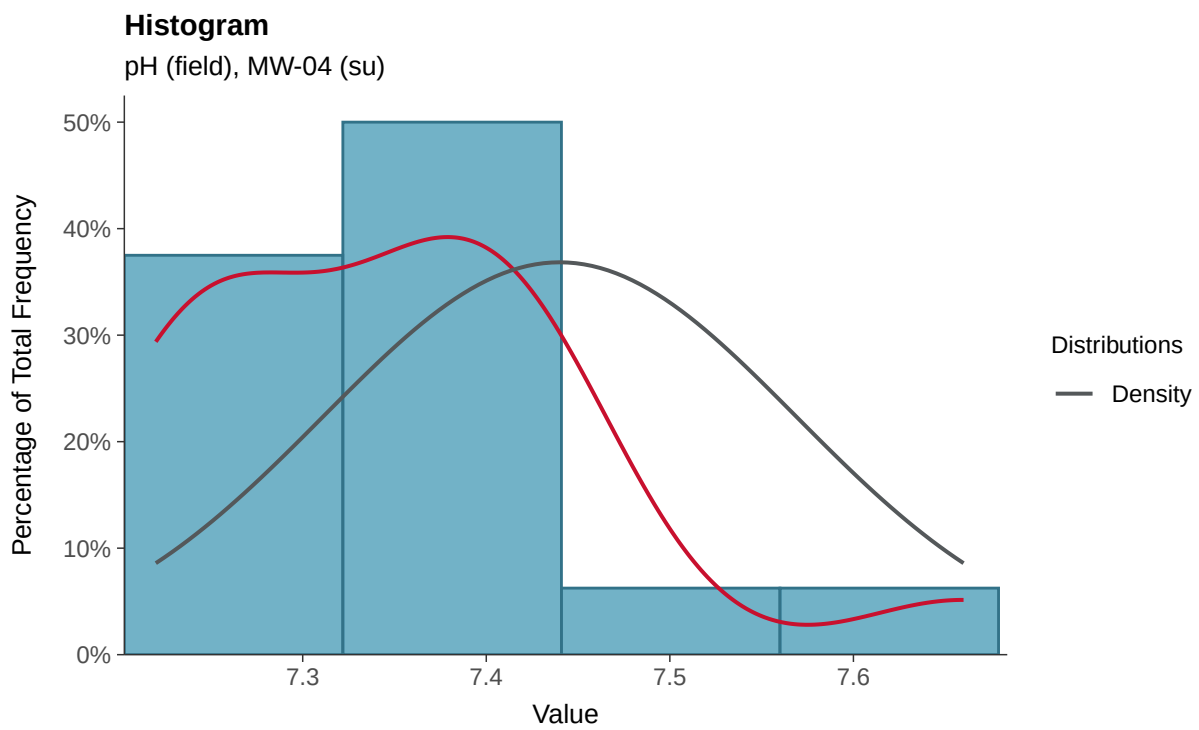
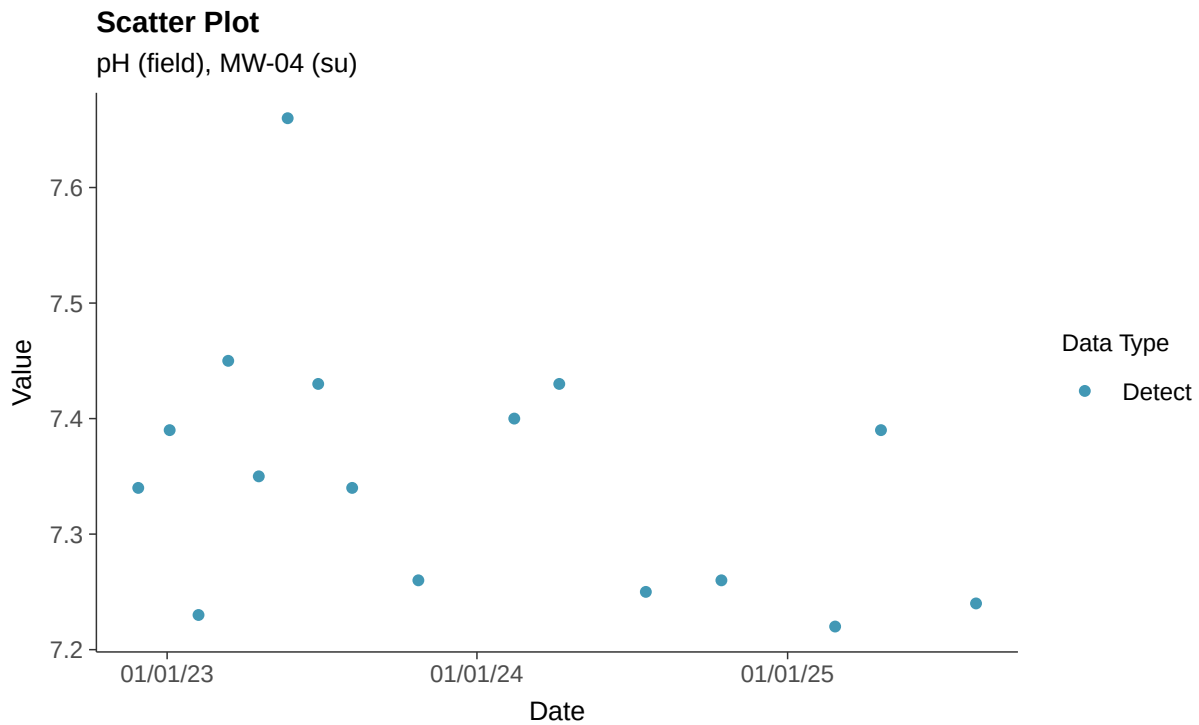
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-04 (mg/L)



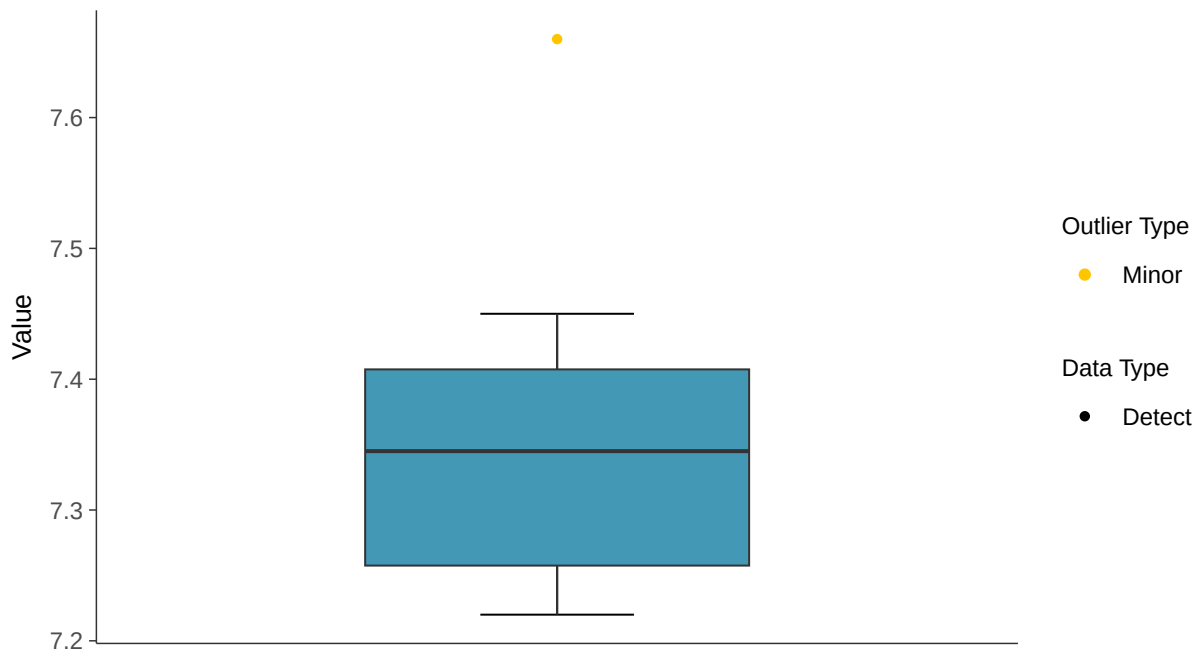
Appendix III: pH (field), MW-04

ID: 14_2_3_120



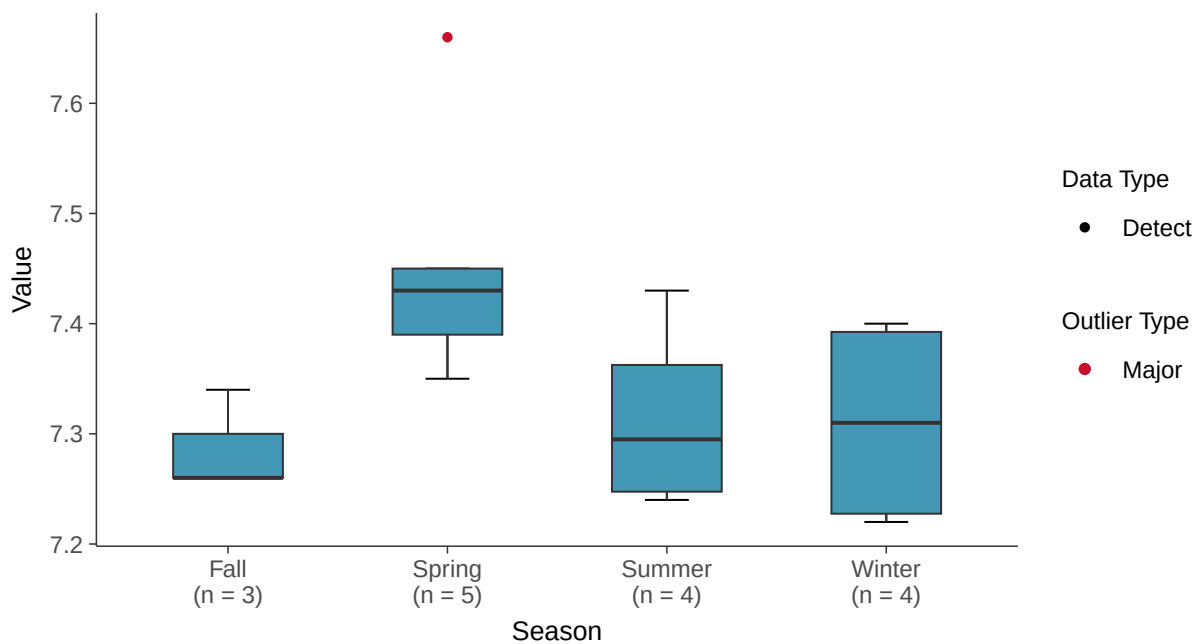
Boxplot

pH (field), MW-04 (su)



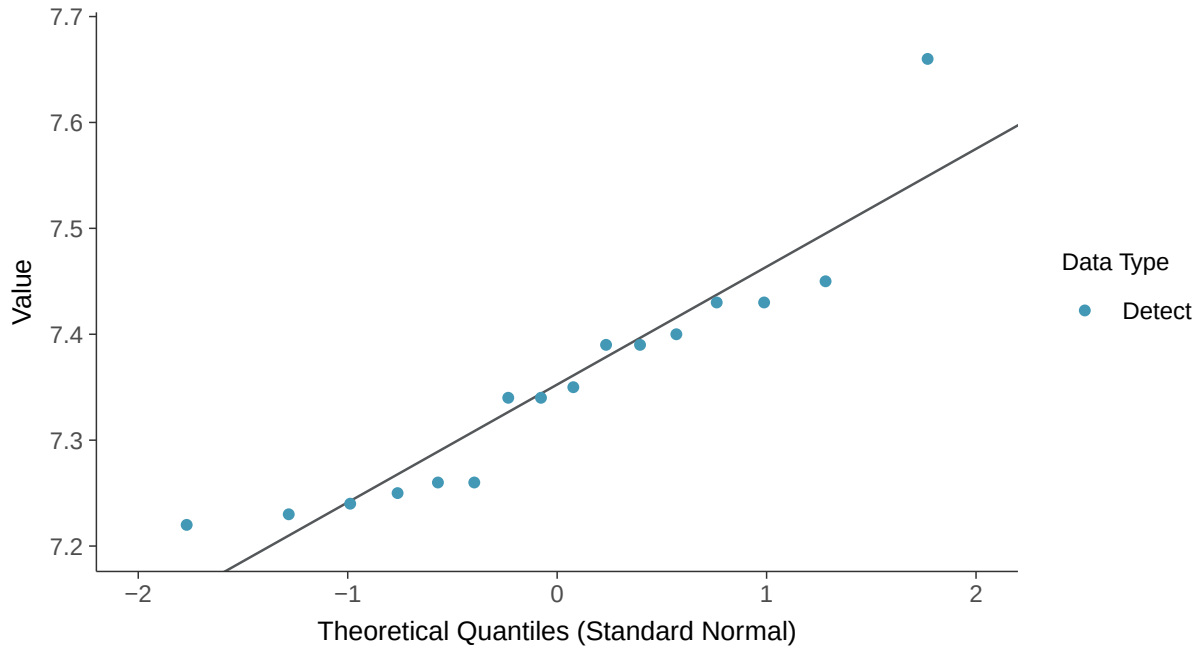
Boxplot by Season

pH (field), MW-04 (su)



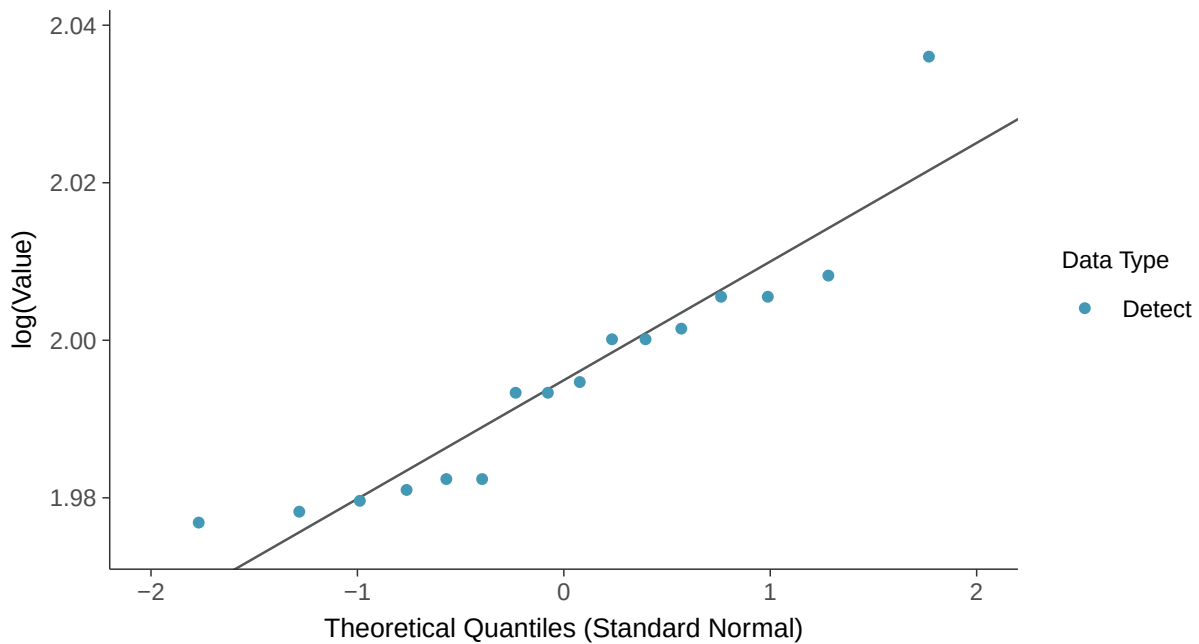
Normal Q-Q plot

pH (field), MW-04 (su)



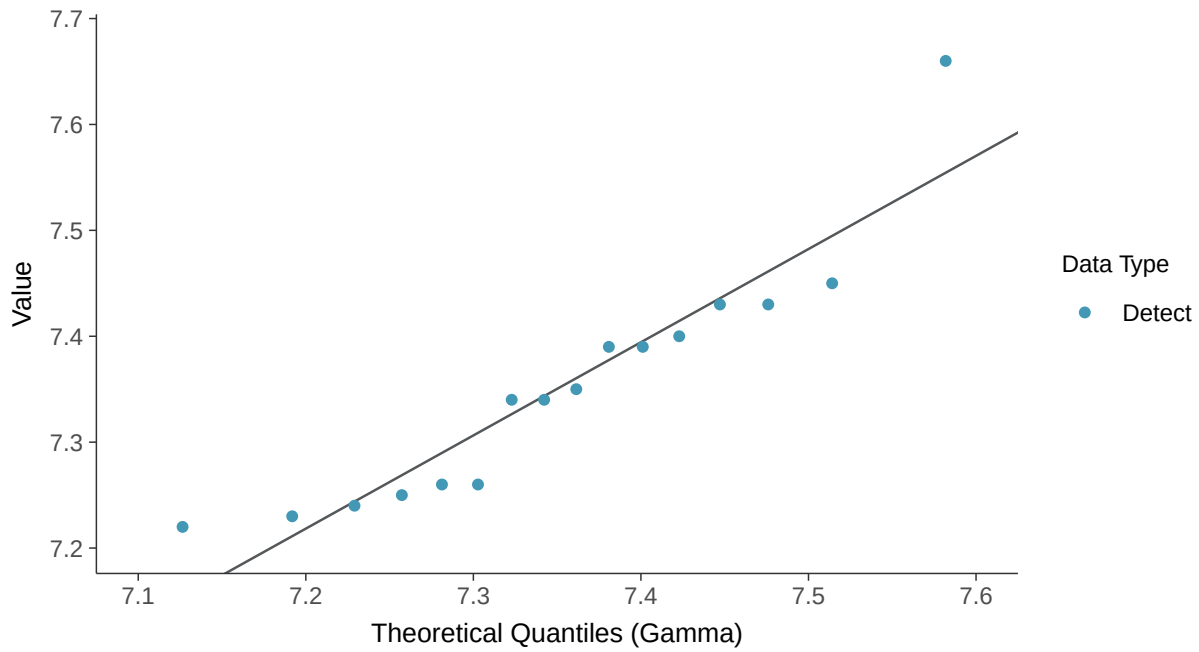
Lognormal Q-Q plot

pH (field), MW-04 (su)



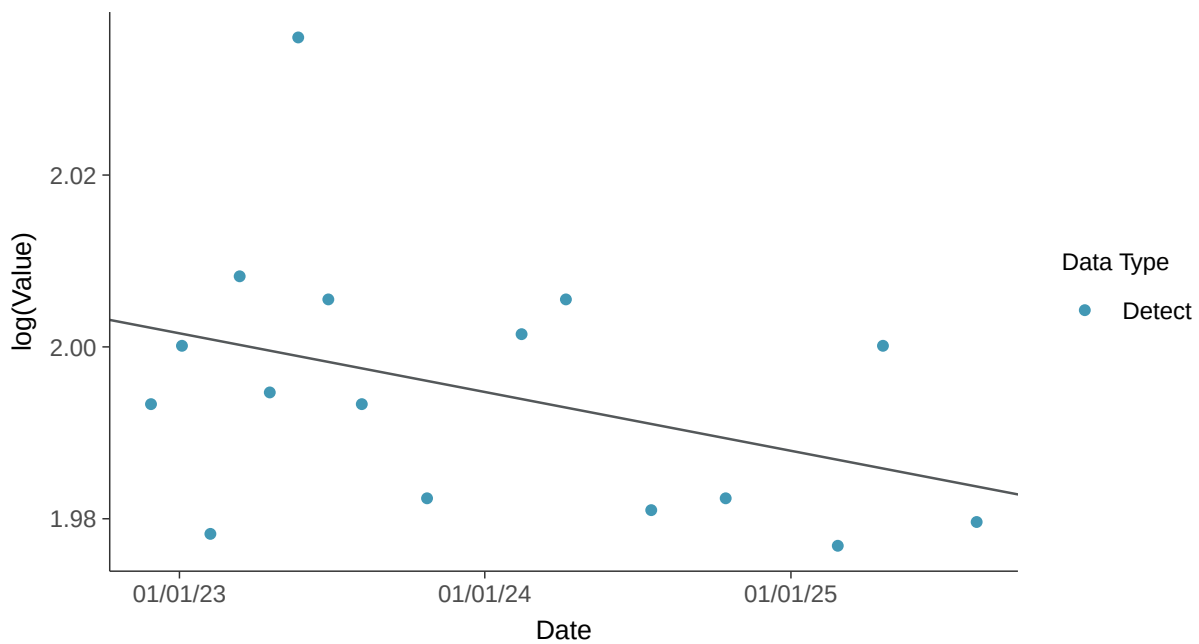
Gamma Q-Q plot

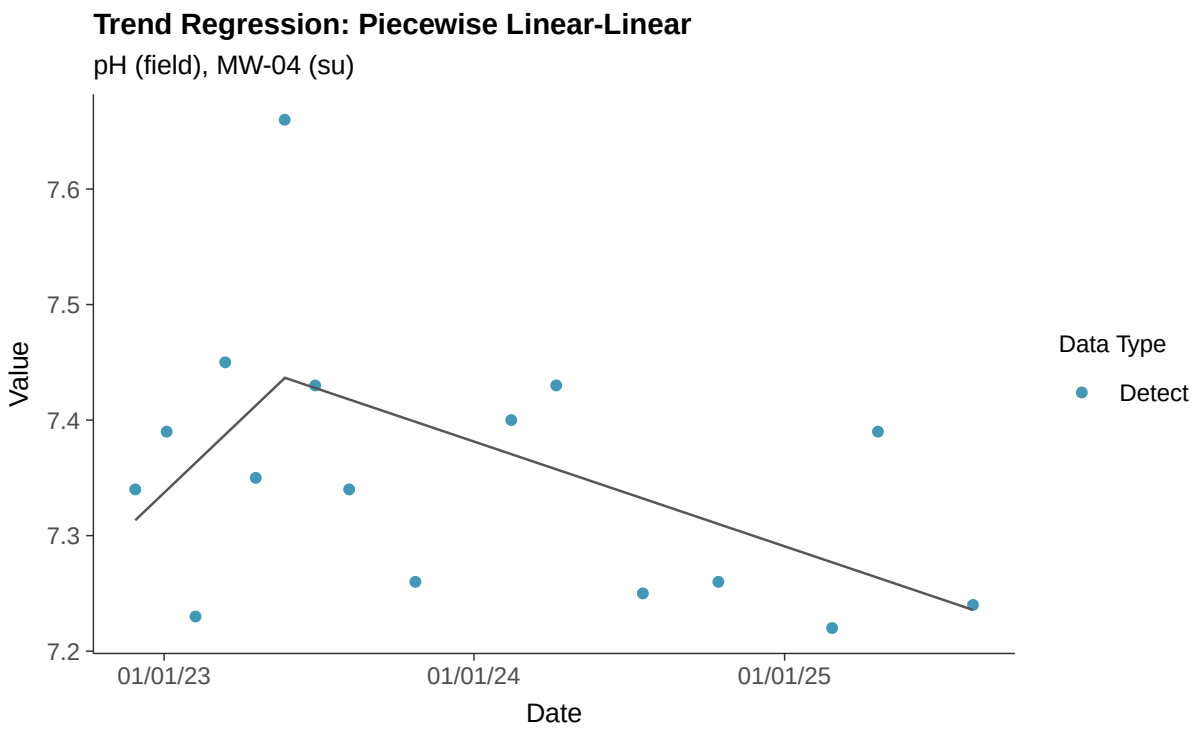
pH (field), MW-04 (su)



Trend Regression: Lognormal MLE

pH (field), MW-04 (su)



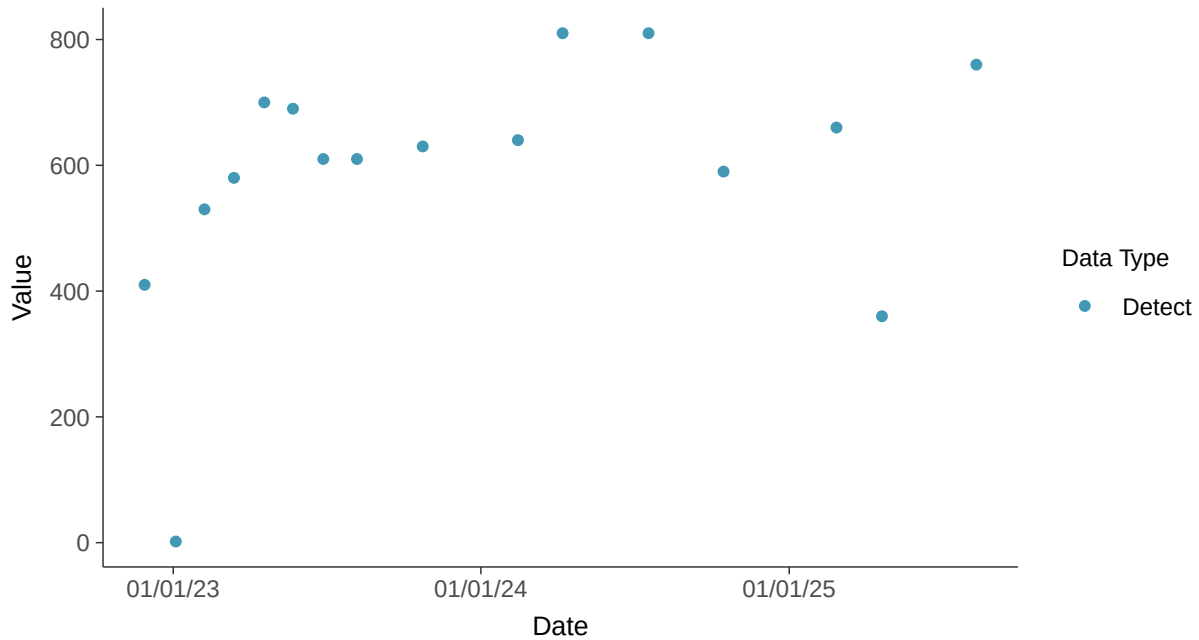


Appendix III: Sulfate (as SO₄), MW-04

ID: 14_2_3_124

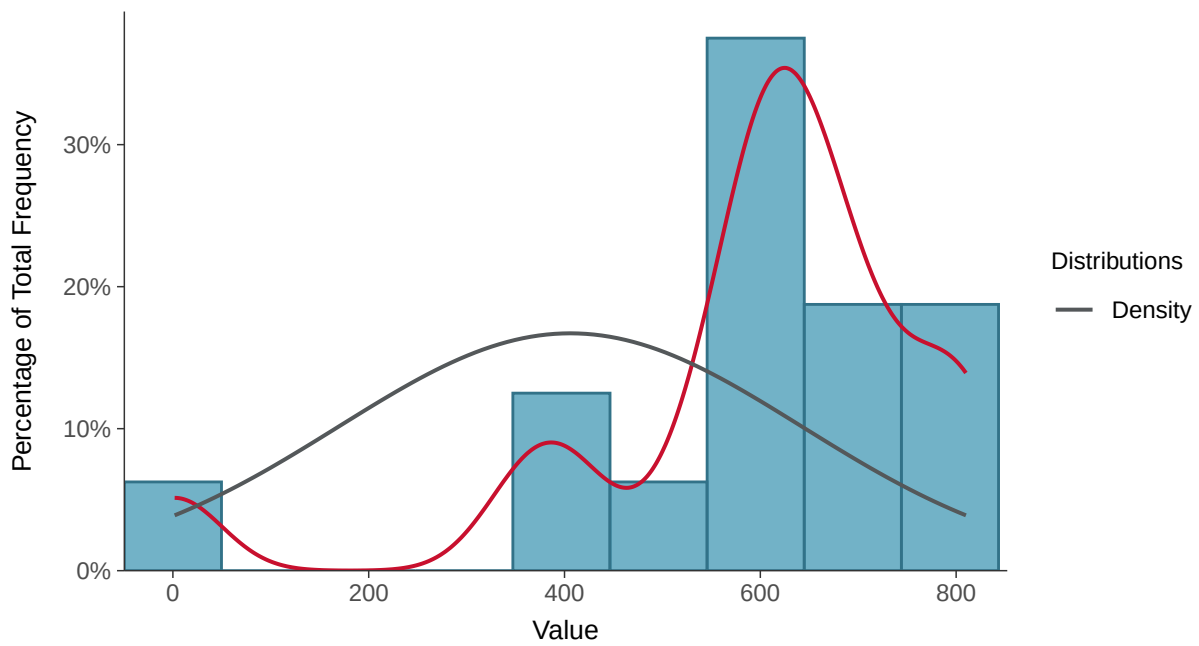
Scatter Plot

Sulfate (as SO₄), MW-04 (mg/L)



Histogram

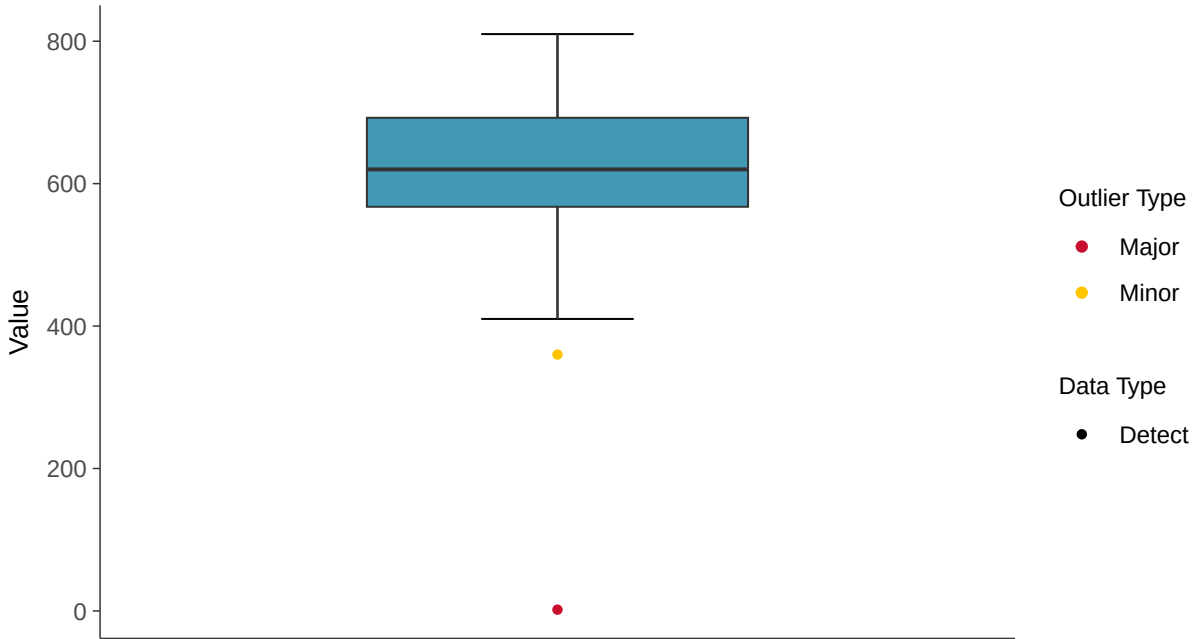
Sulfate (as SO₄), MW-04 (mg/L)





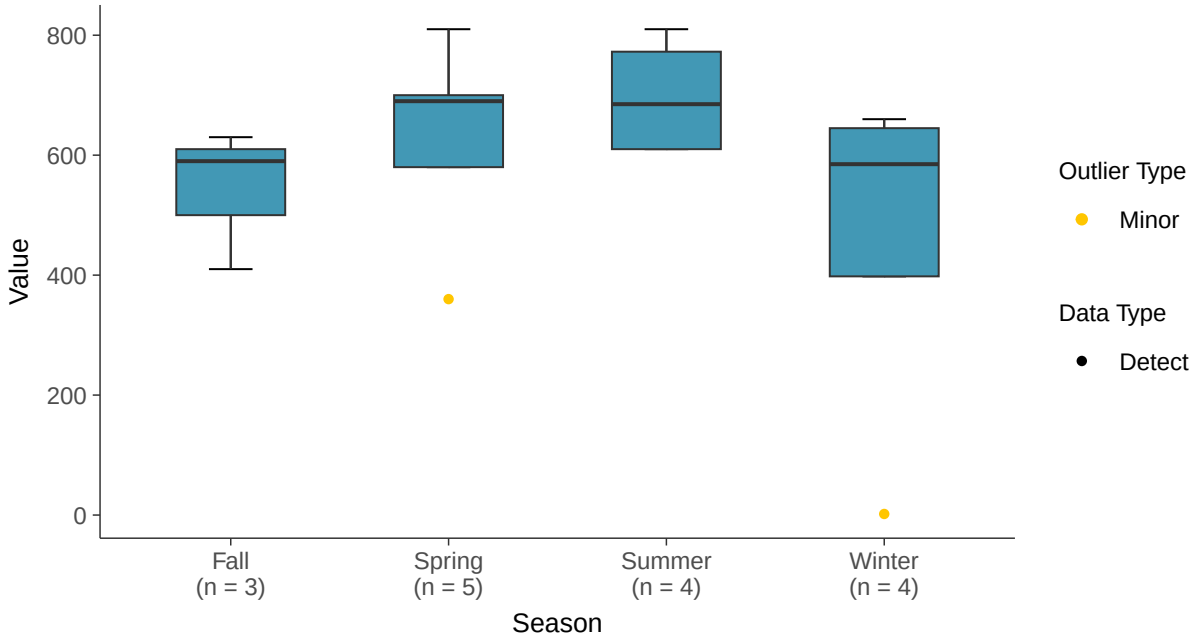
Boxplot

Sulfate (as SO₄), MW-04 (mg/L)



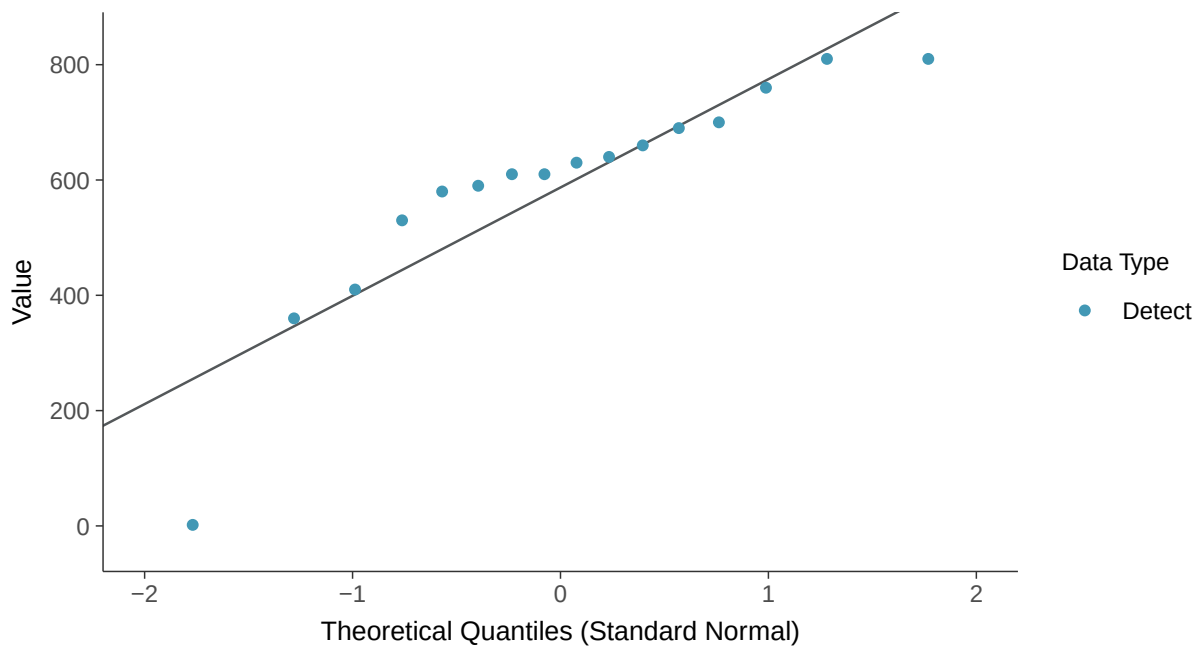
Boxplot by Season

Sulfate (as SO₄), MW-04 (mg/L)



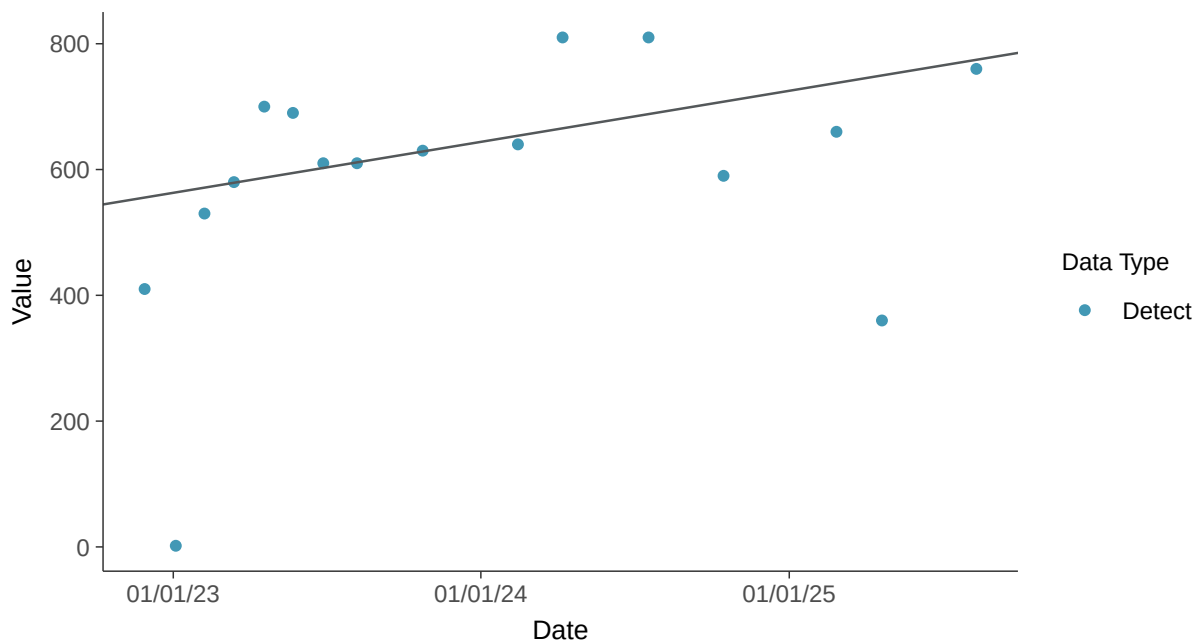
Normal Q-Q plot

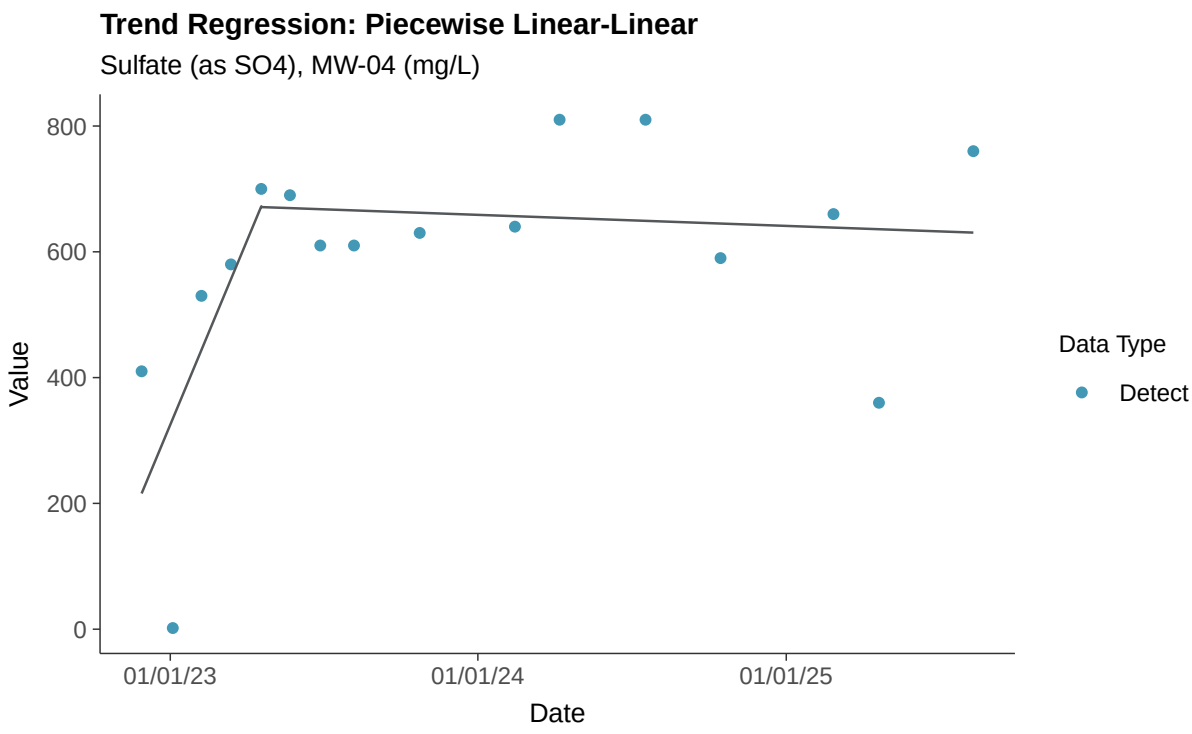
Sulfate (as SO₄), MW-04 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

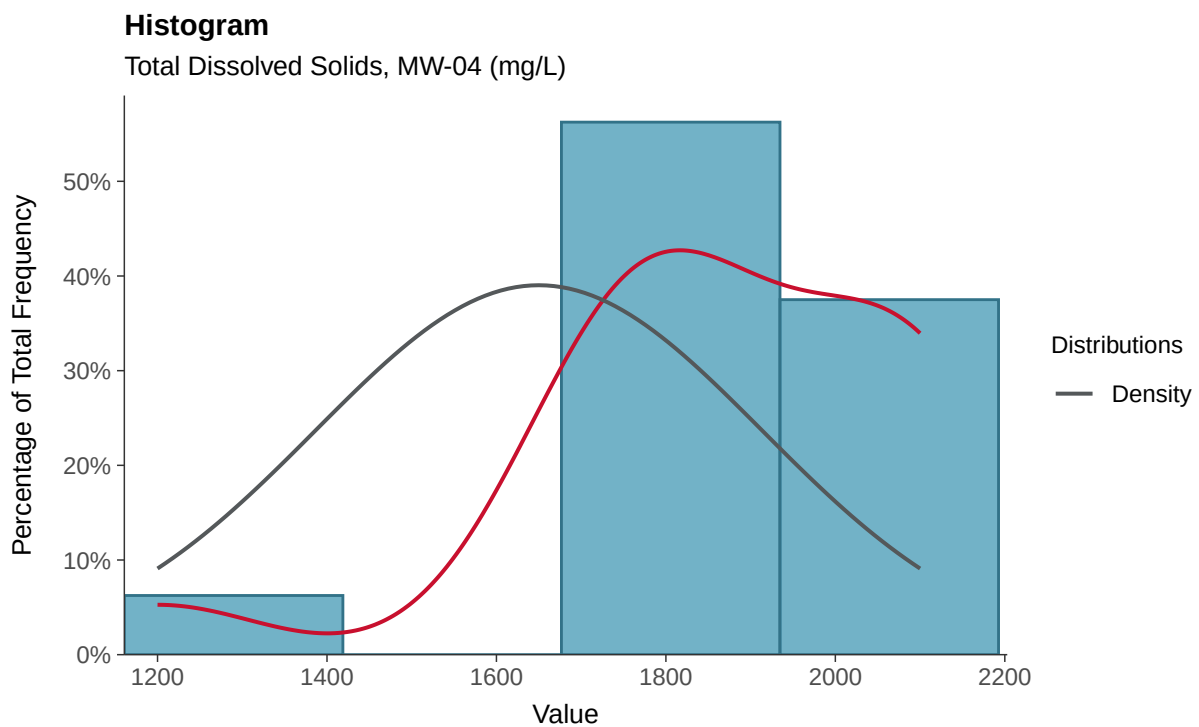
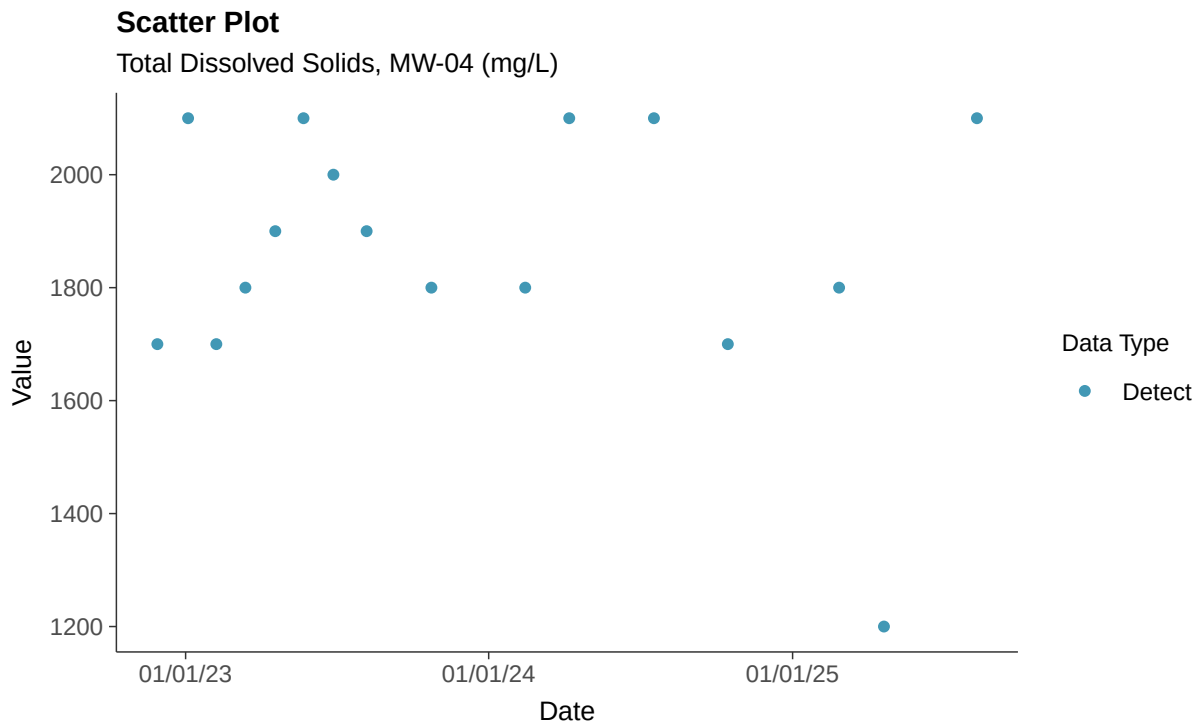
Sulfate (as SO₄), MW-04 (mg/L)





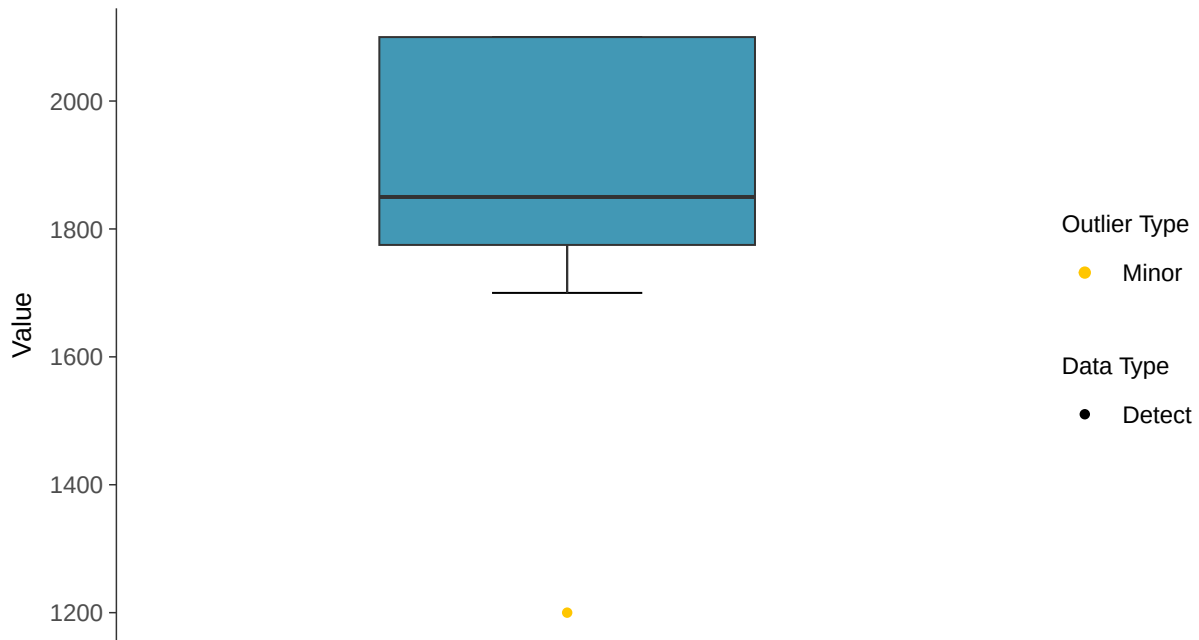
Appendix III: Total Dissolved Solids, MW-04

ID: 14_2_3_126



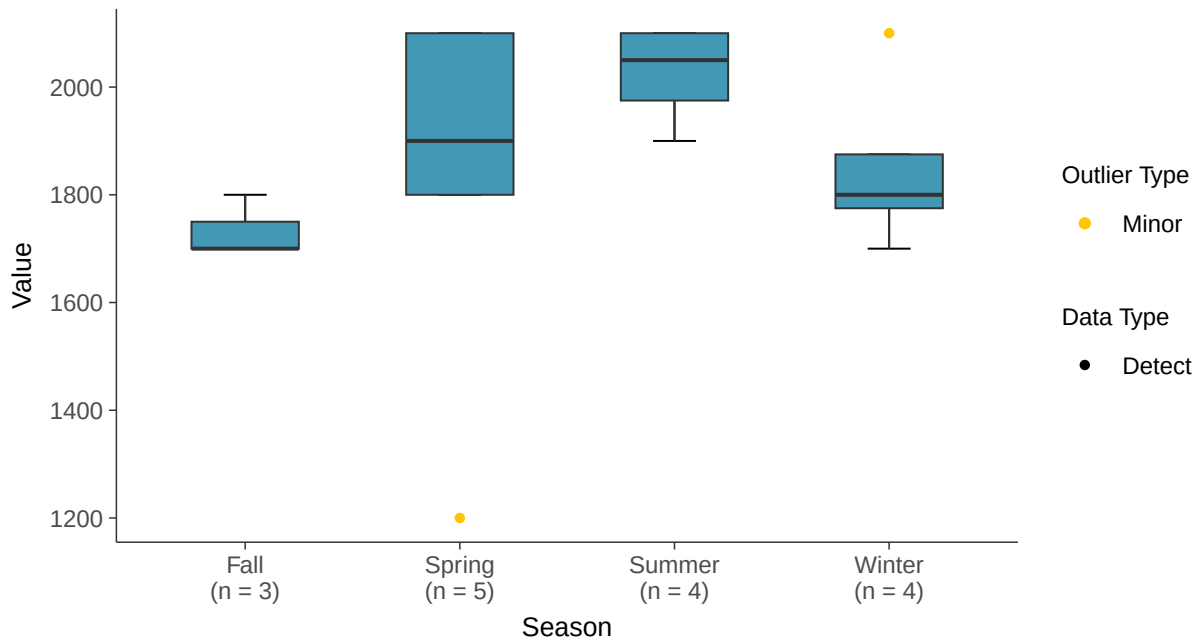
Boxplot

Total Dissolved Solids, MW-04 (mg/L)



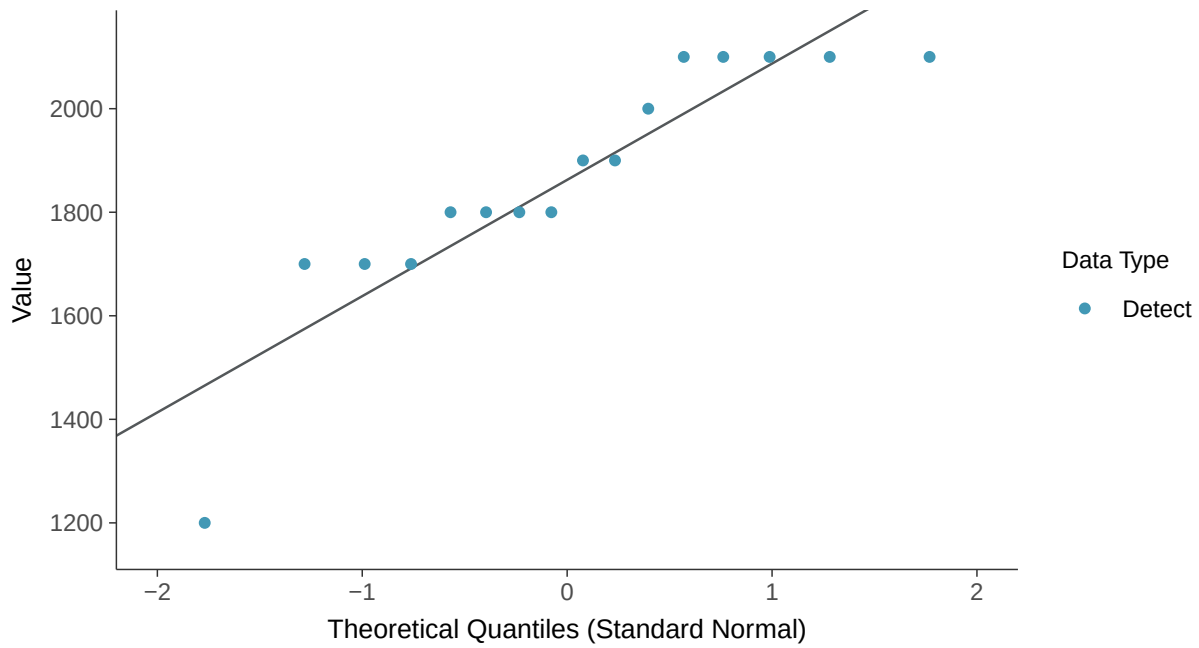
Boxplot by Season

Total Dissolved Solids, MW-04 (mg/L)



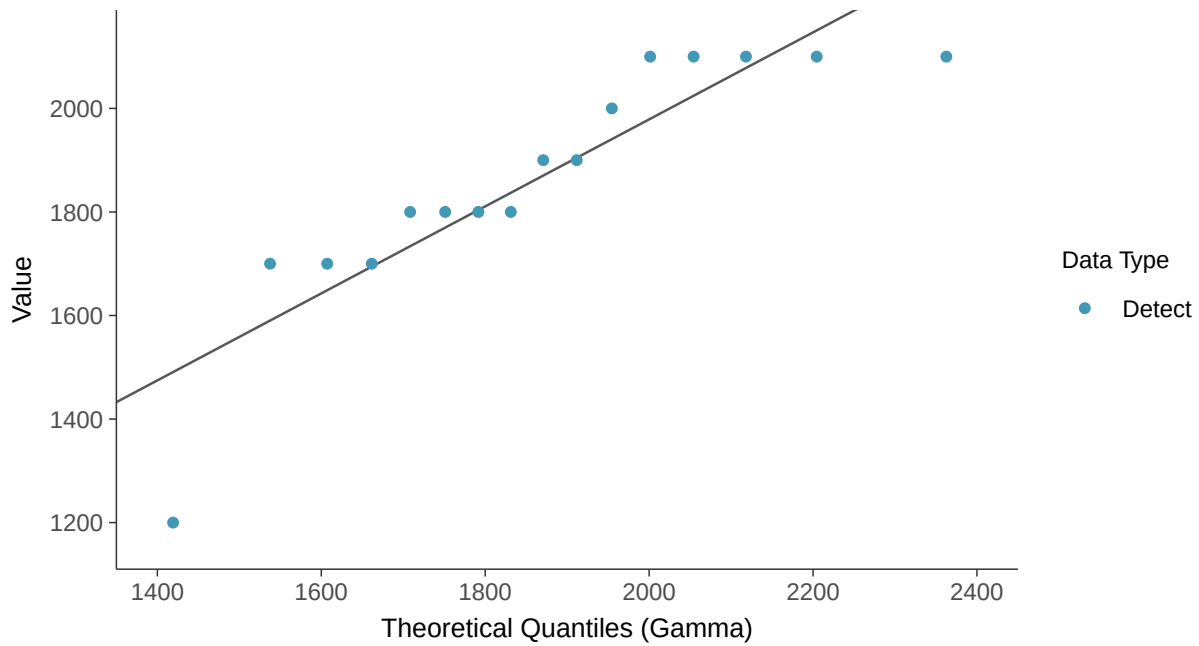
Normal Q-Q plot

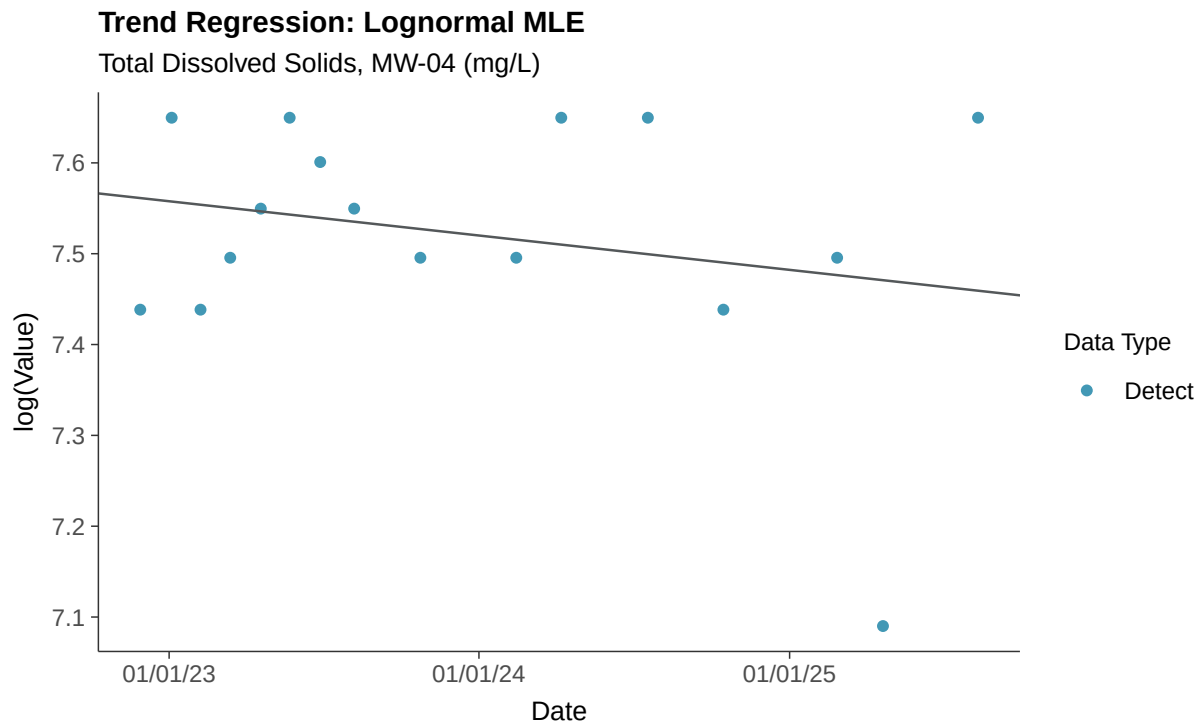
Total Dissolved Solids, MW-04 (mg/L)



Gamma Q-Q plot

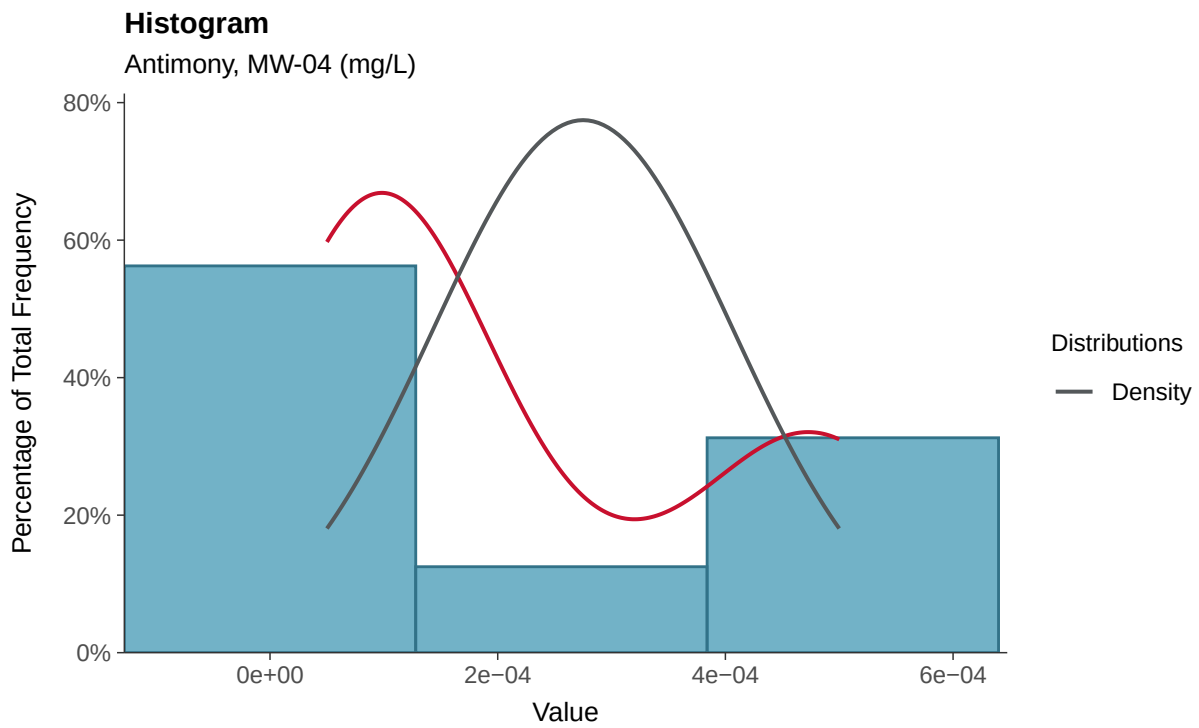
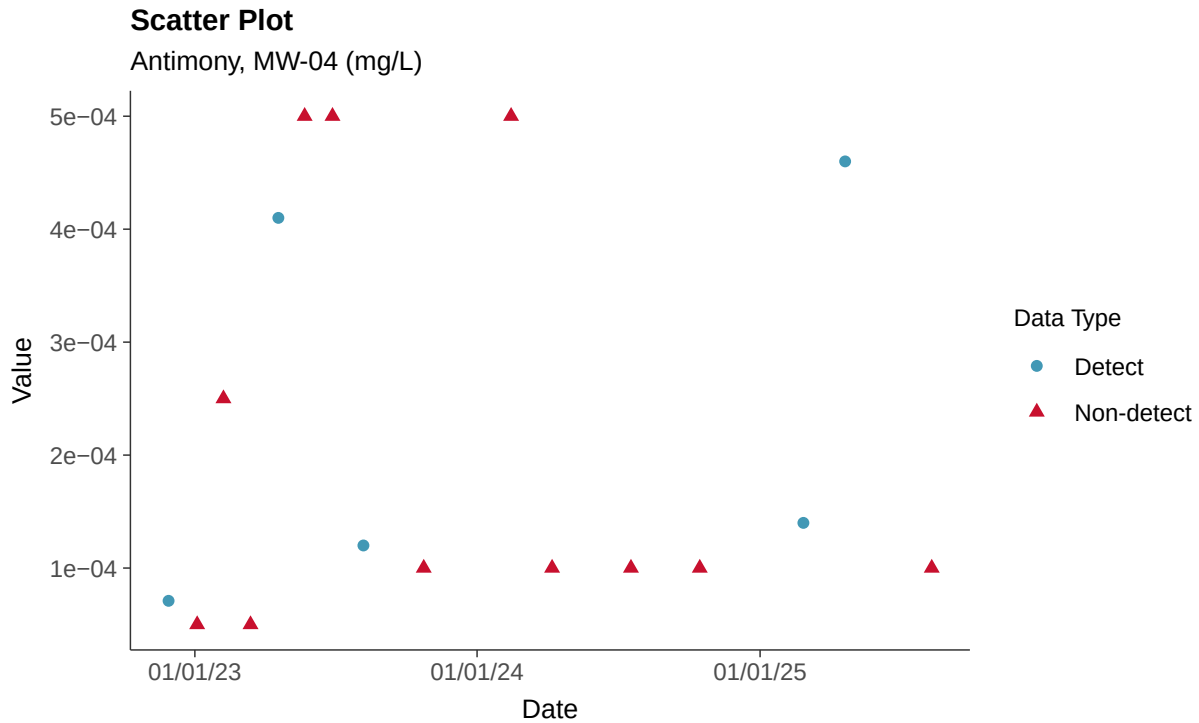
Total Dissolved Solids, MW-04 (mg/L)





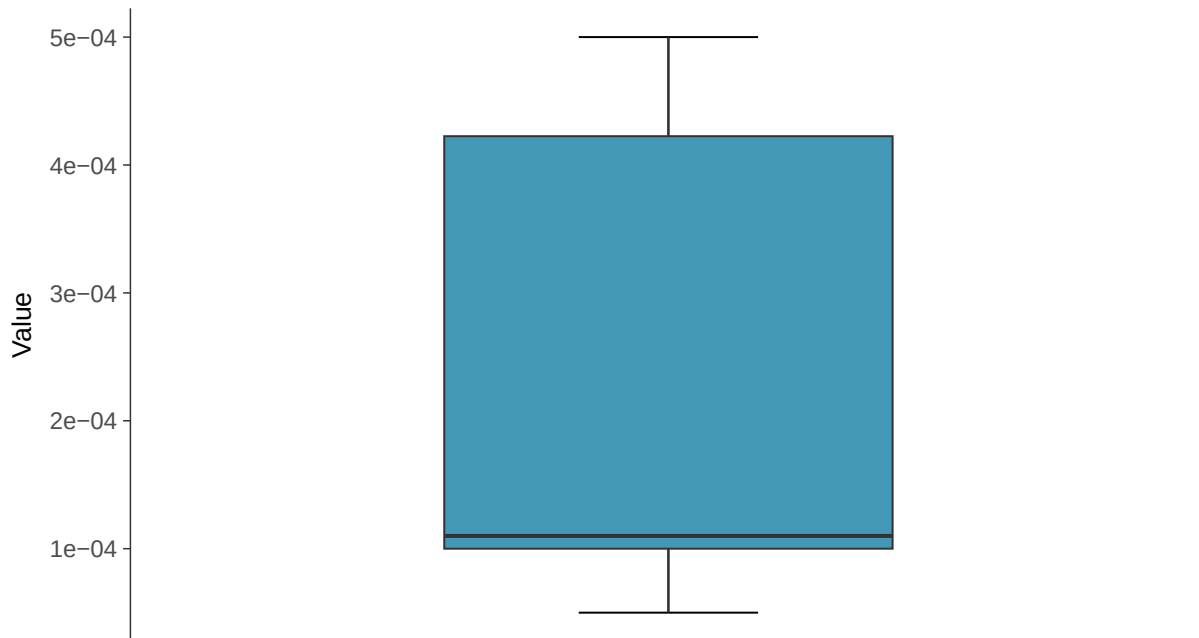
Appendix IV: Antimony, MW-04

ID: 14_2_4_101



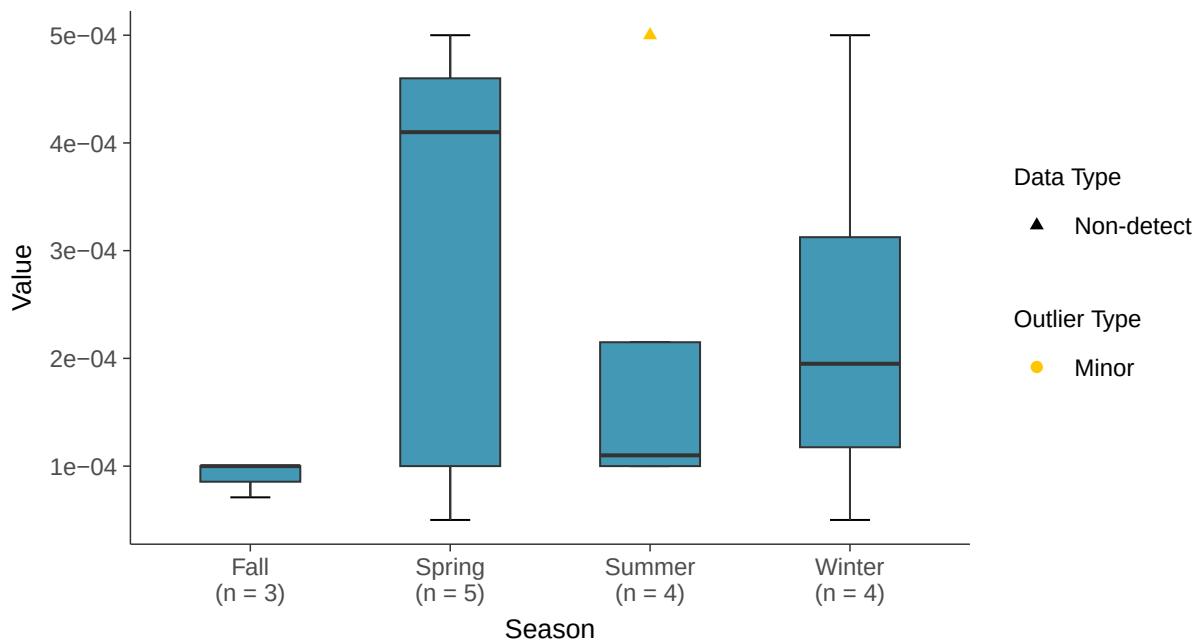
Boxplot

Antimony, MW-04 (mg/L)



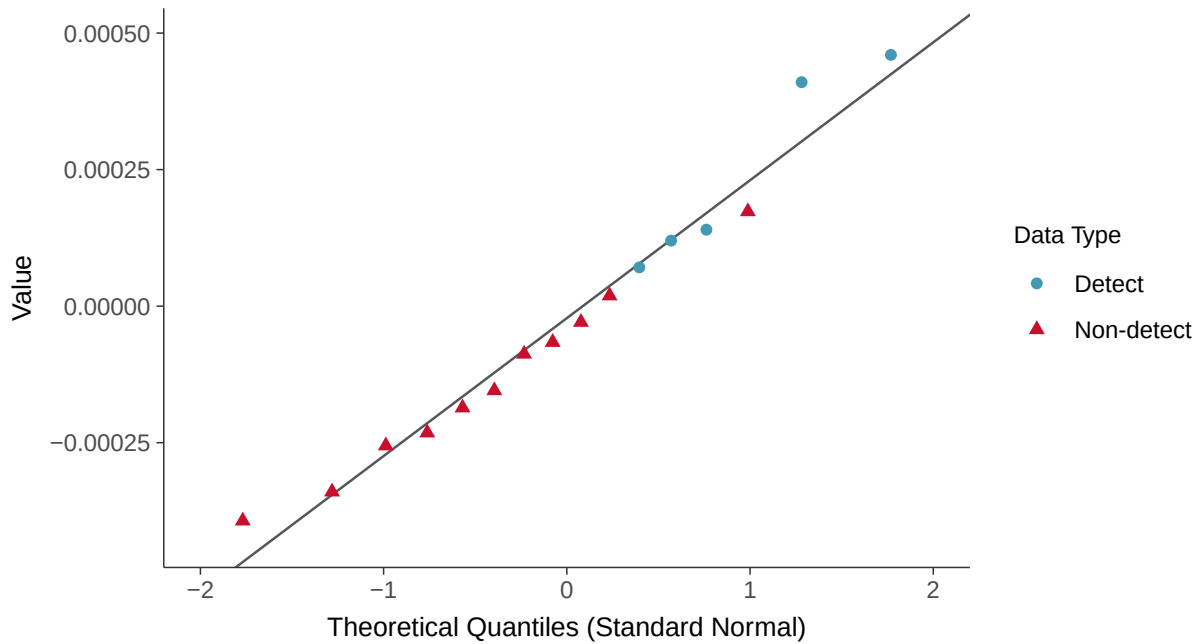
Boxplot by Season

Antimony, MW-04 (mg/L)



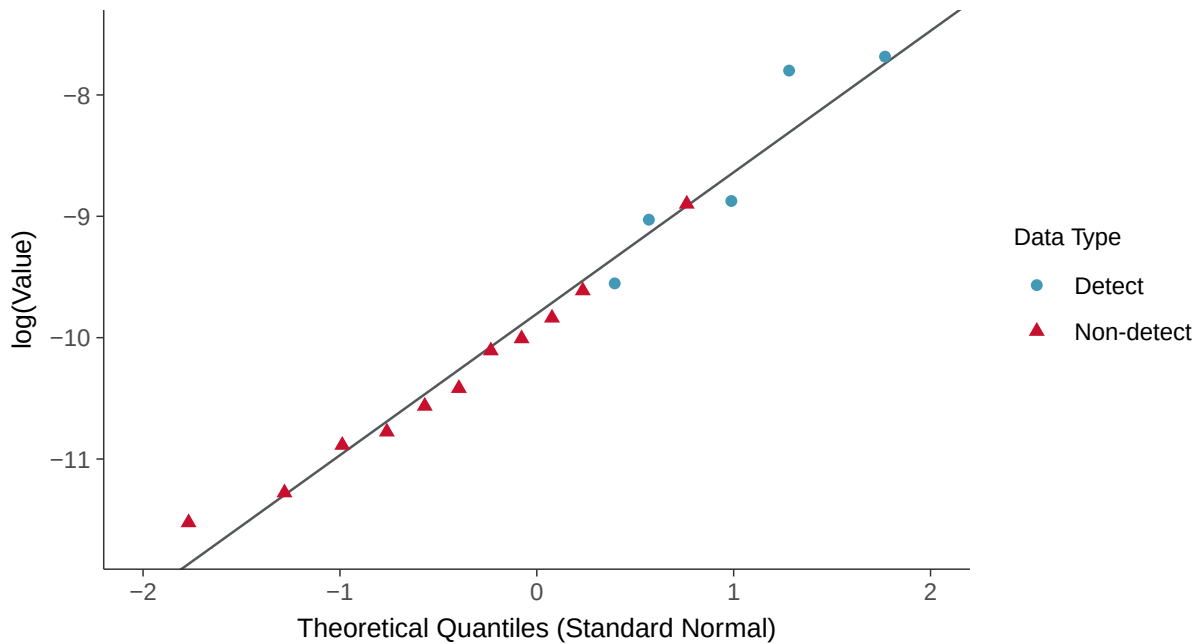
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-04 (mg/L)



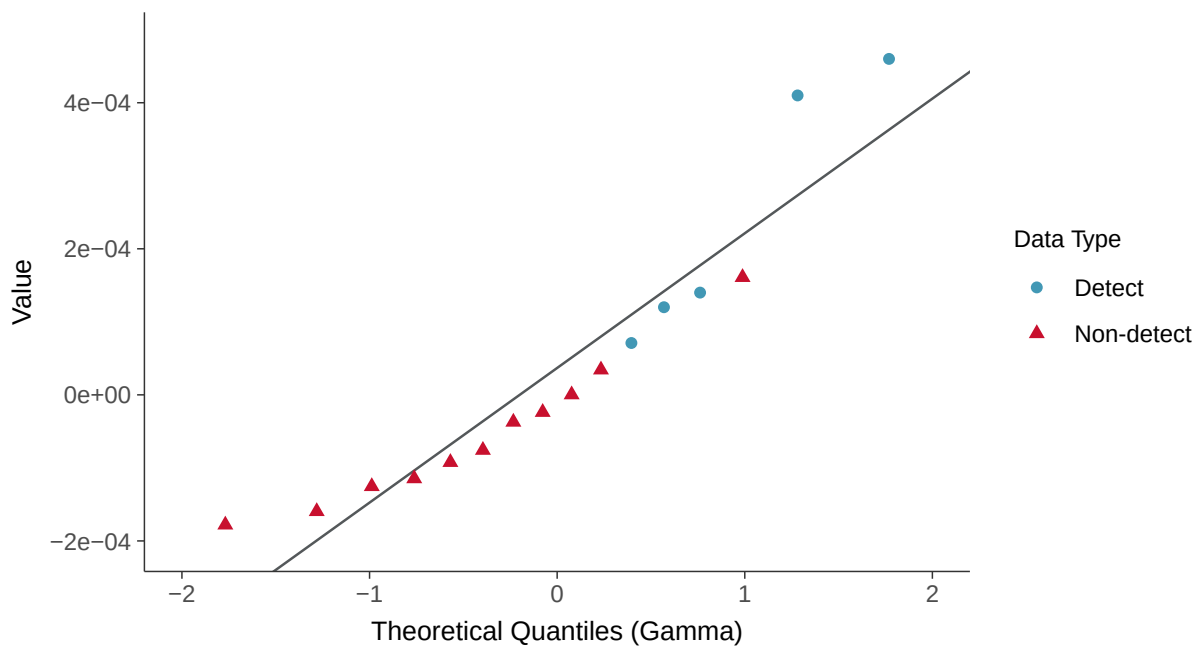
Lognormal Q-Q plot using ROS Imputed Estimates

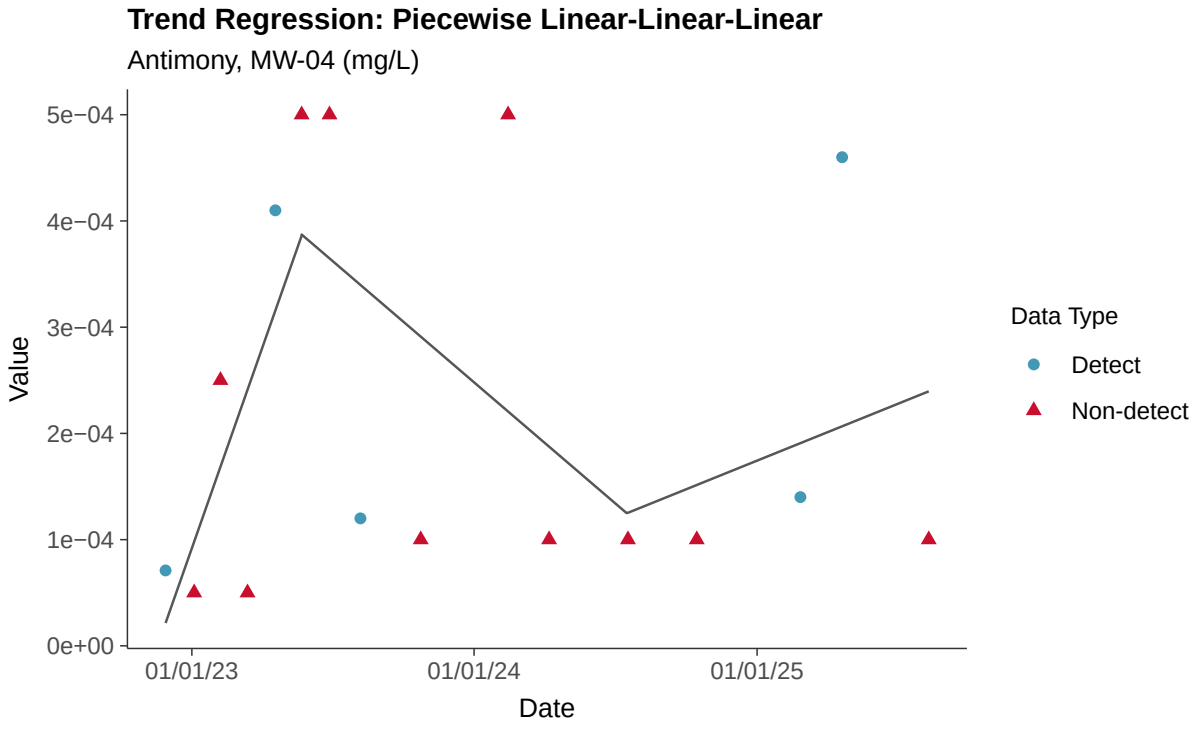
Antimony, MW-04 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-04 (mg/L)



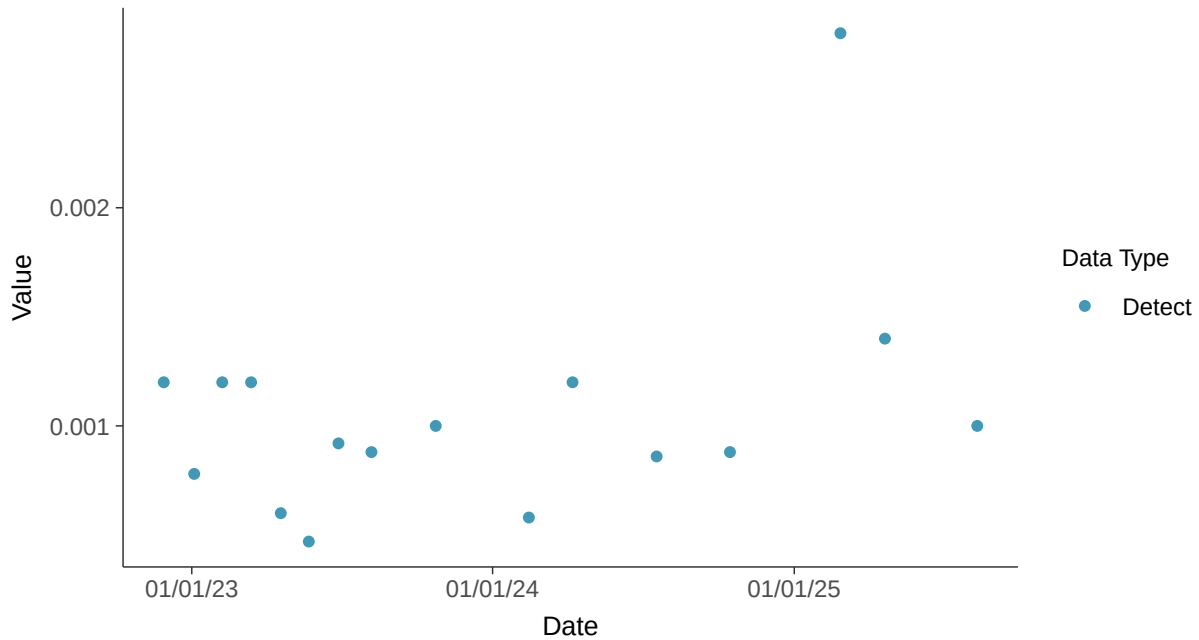


Appendix IV: Arsenic, MW-04

ID: 14_2_4_102

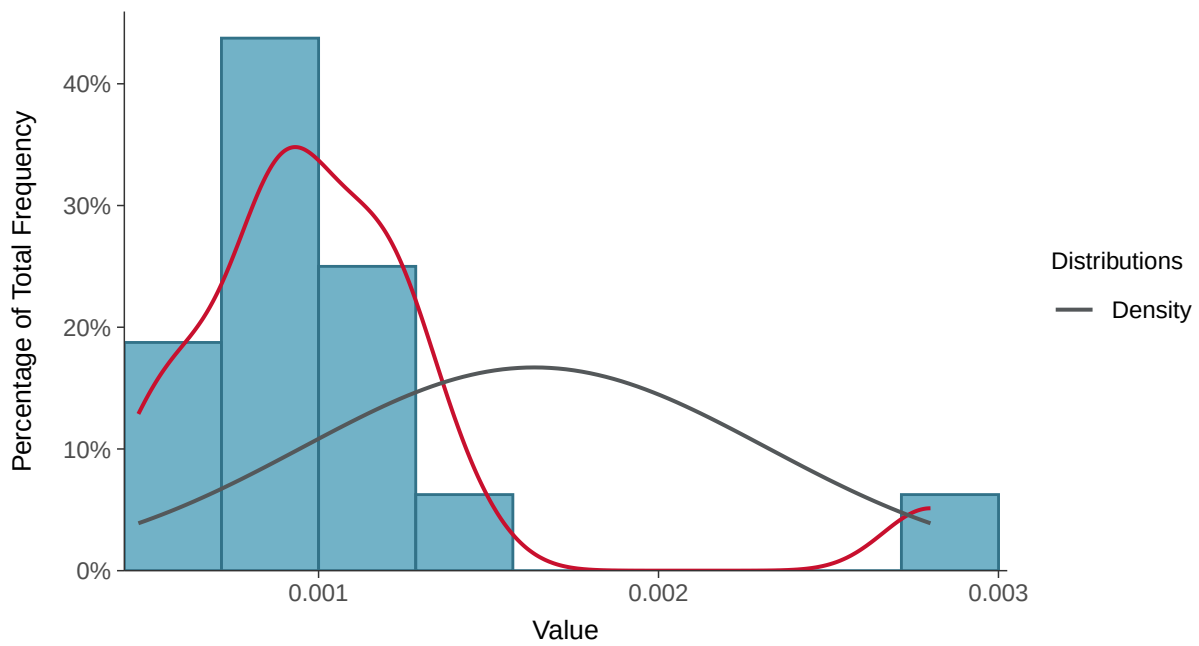
Scatter Plot

Arsenic, MW-04 (mg/L)



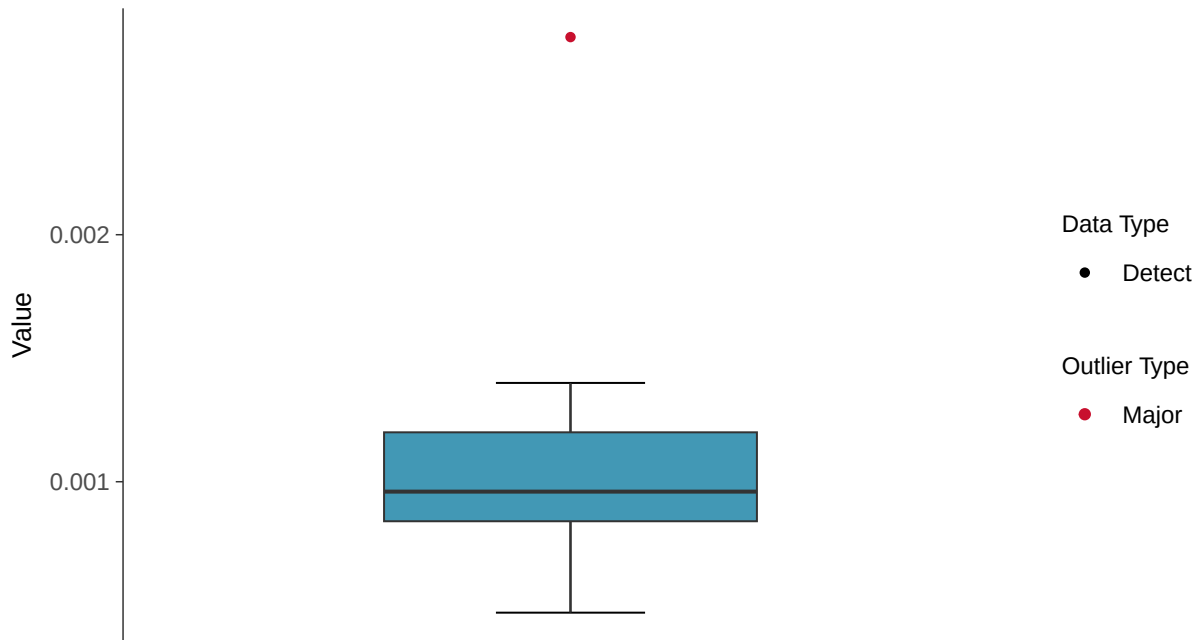
Histogram

Arsenic, MW-04 (mg/L)



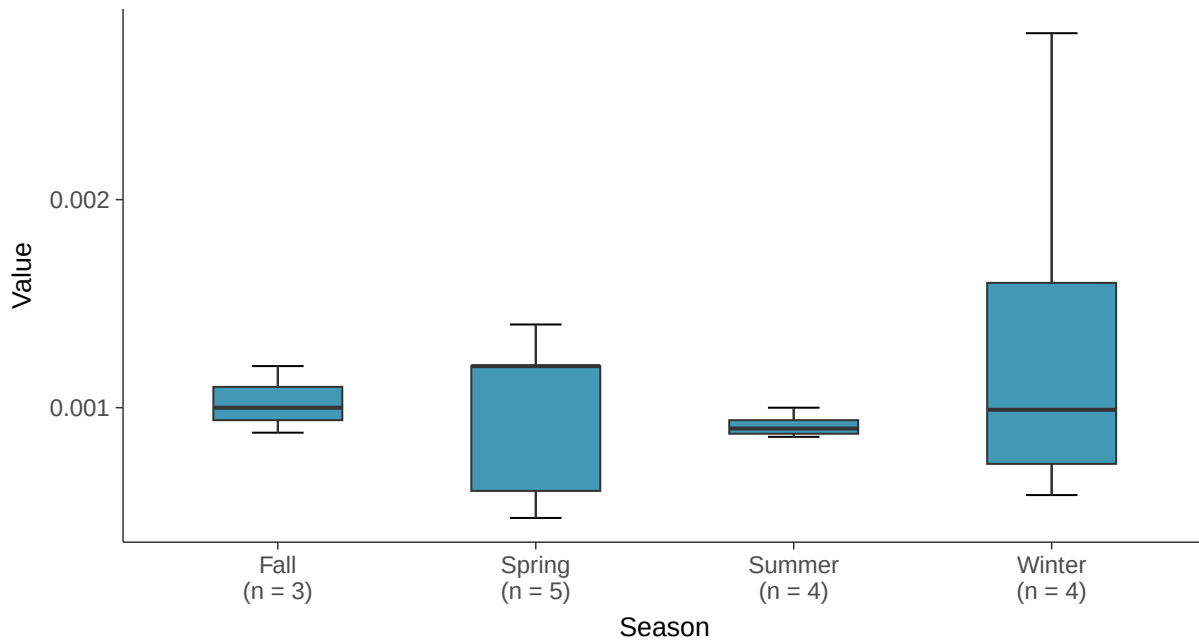
Boxplot

Arsenic, MW-04 (mg/L)



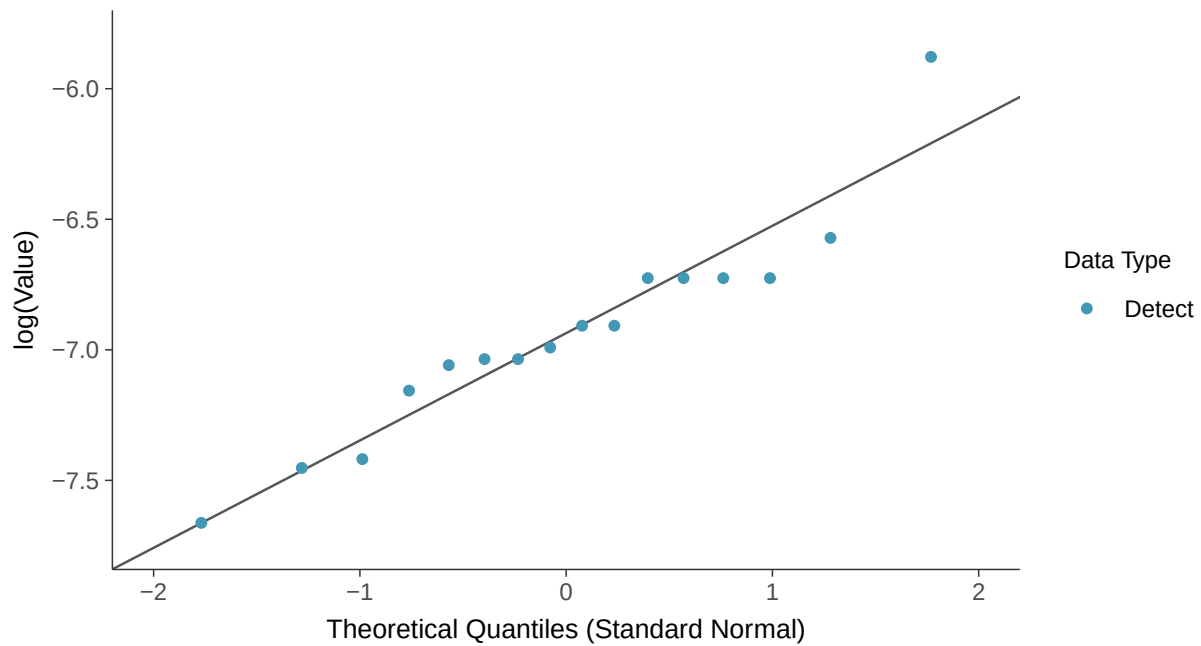
Boxplot by Season

Arsenic, MW-04 (mg/L)



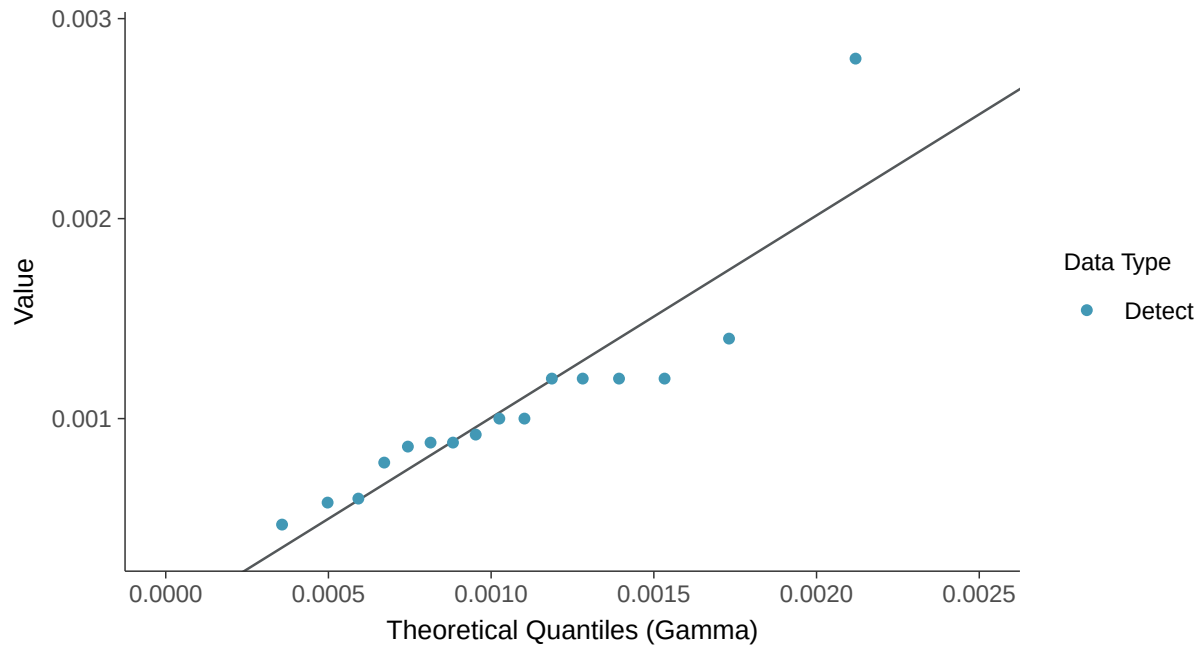
Lognormal Q-Q plot

Arsenic, MW-04 (mg/L)



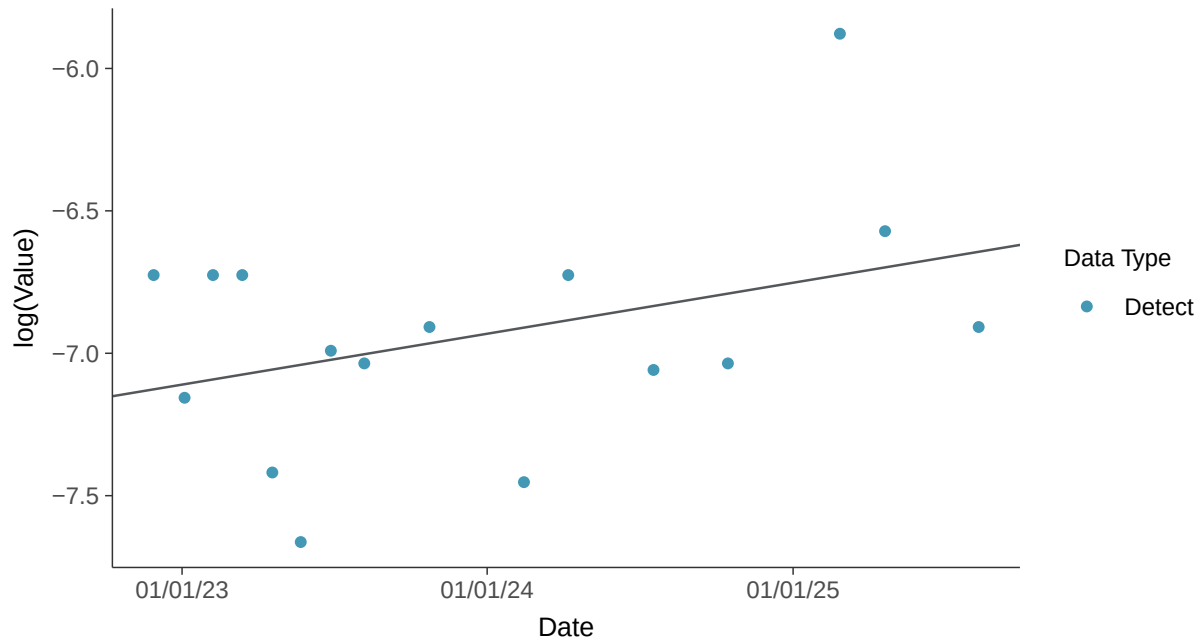
Gamma Q-Q plot

Arsenic, MW-04 (mg/L)



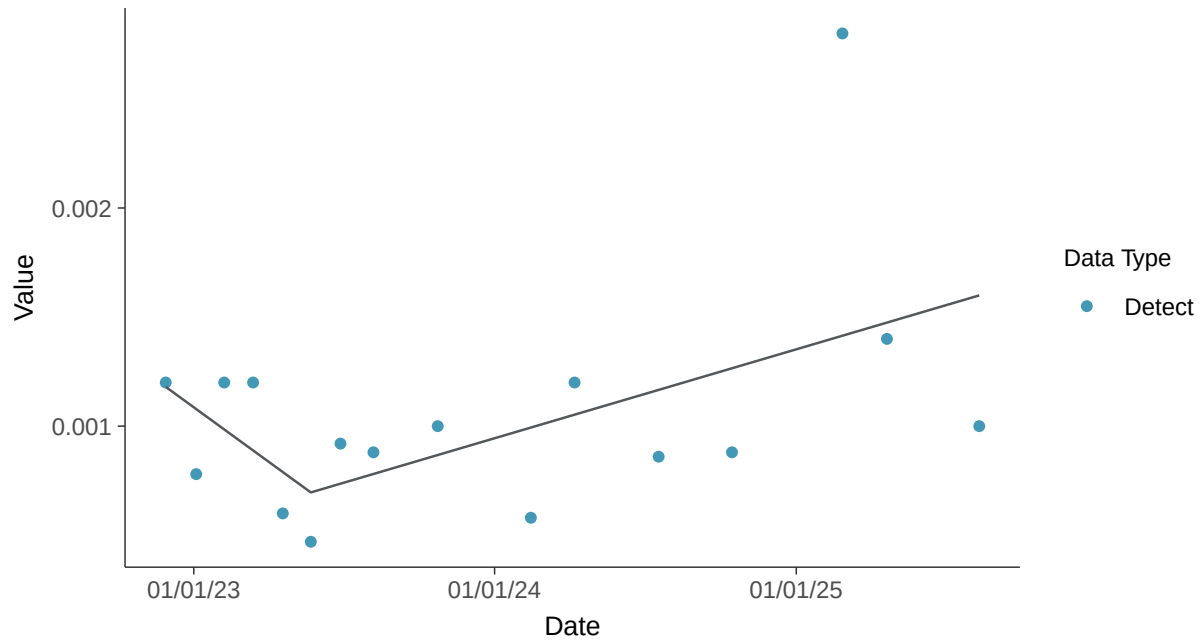
Trend Regression: Lognormal MLE

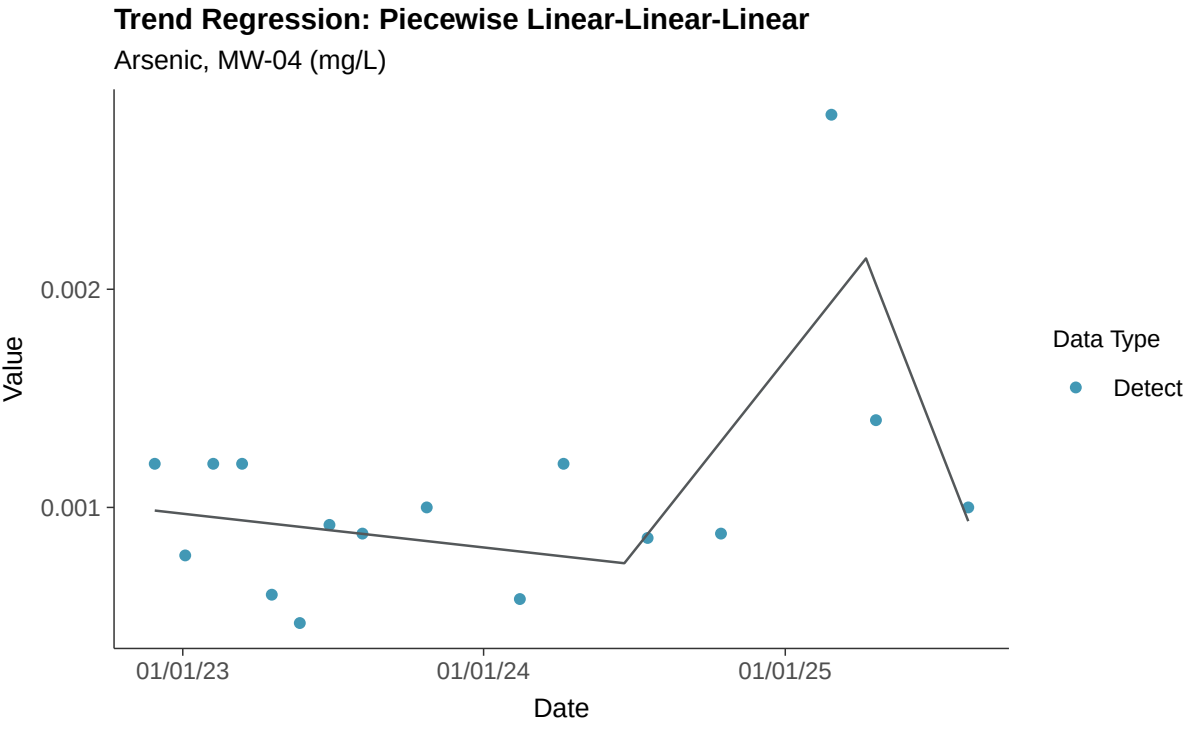
Arsenic, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

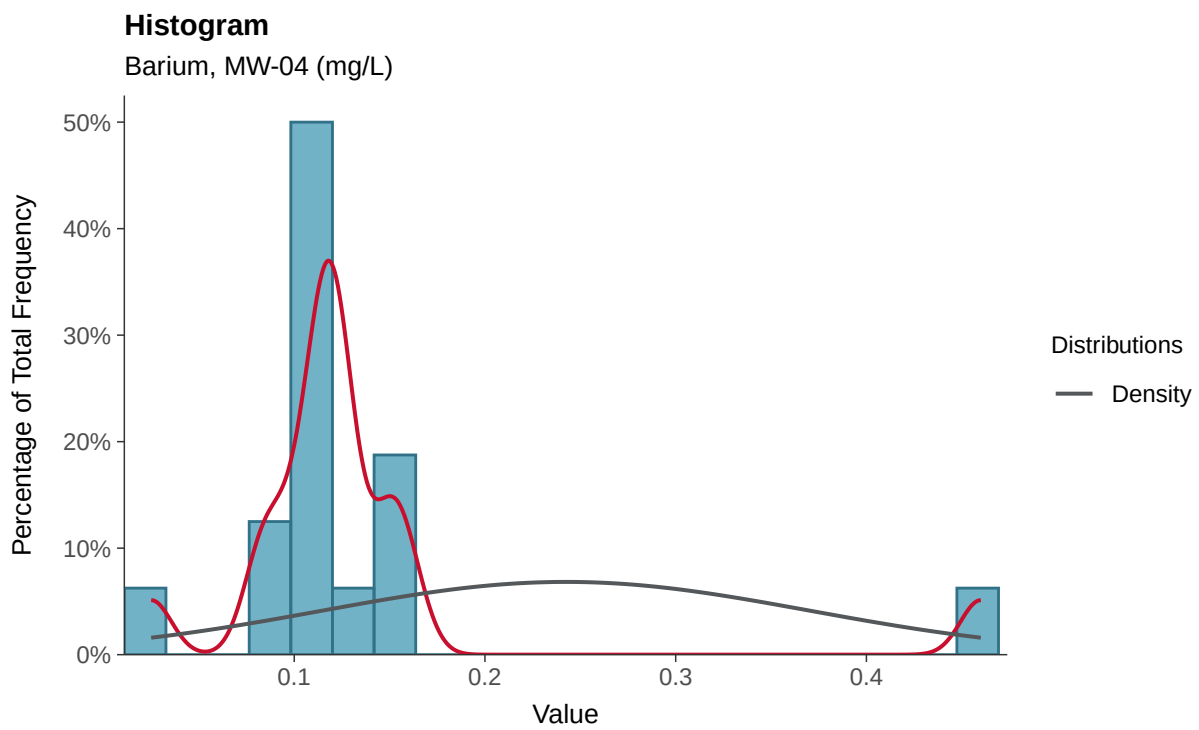
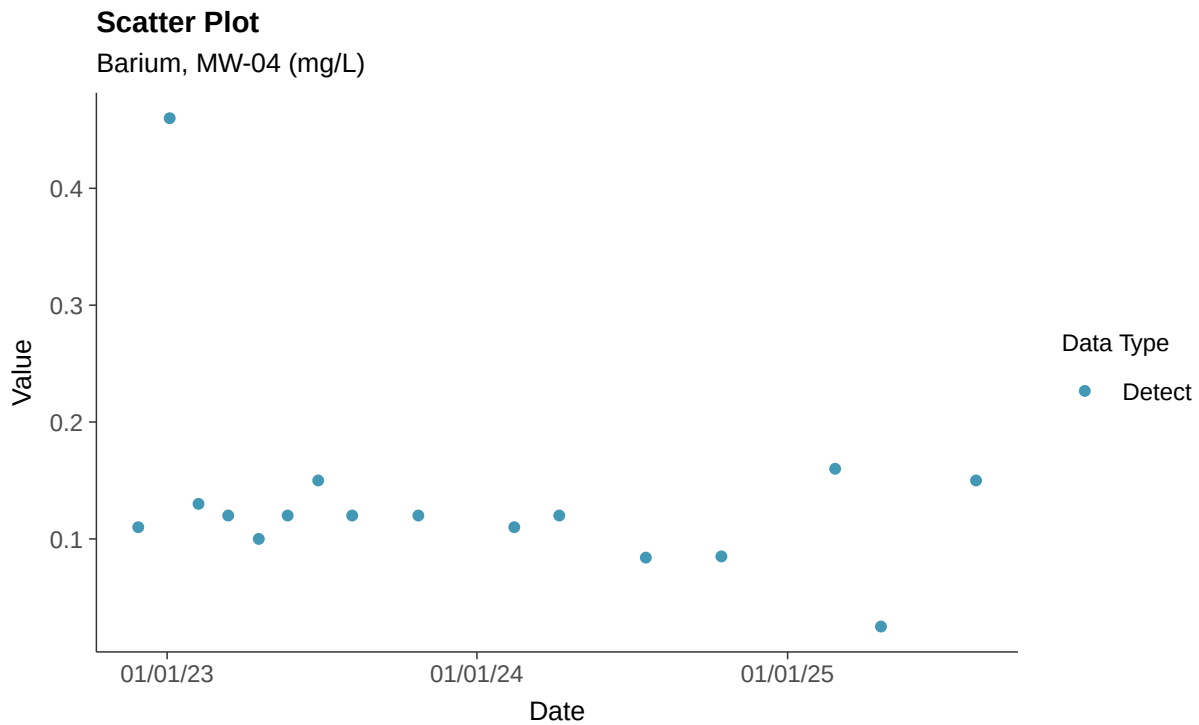
Arsenic, MW-04 (mg/L)





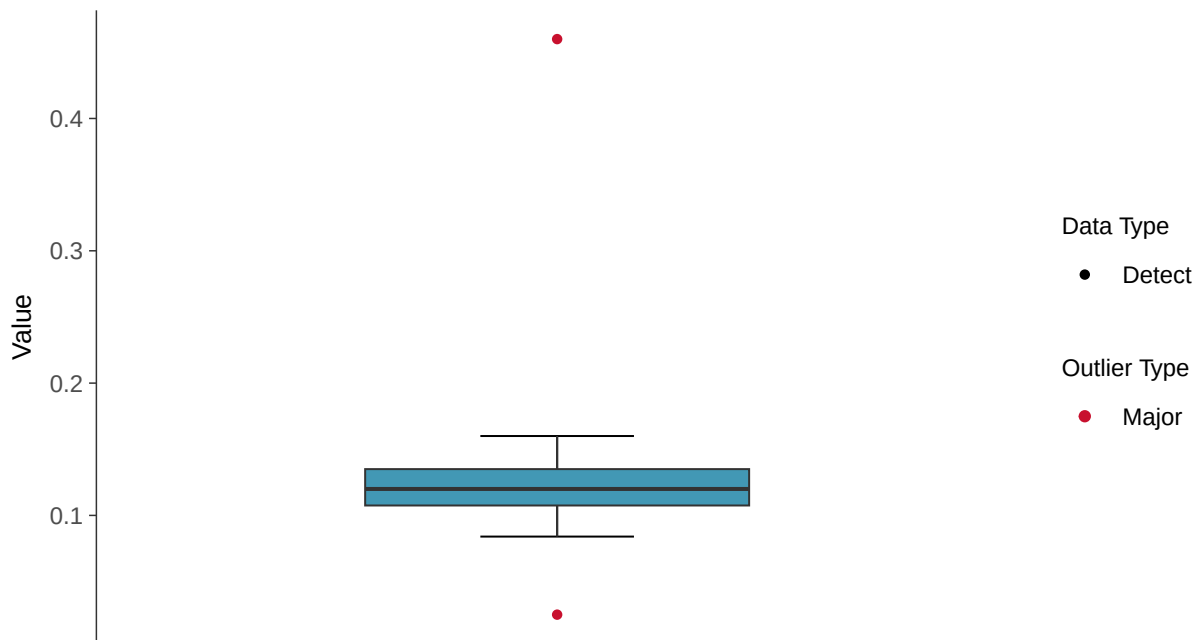
Appendix IV: Barium, MW-04

ID: 14_2_4_103



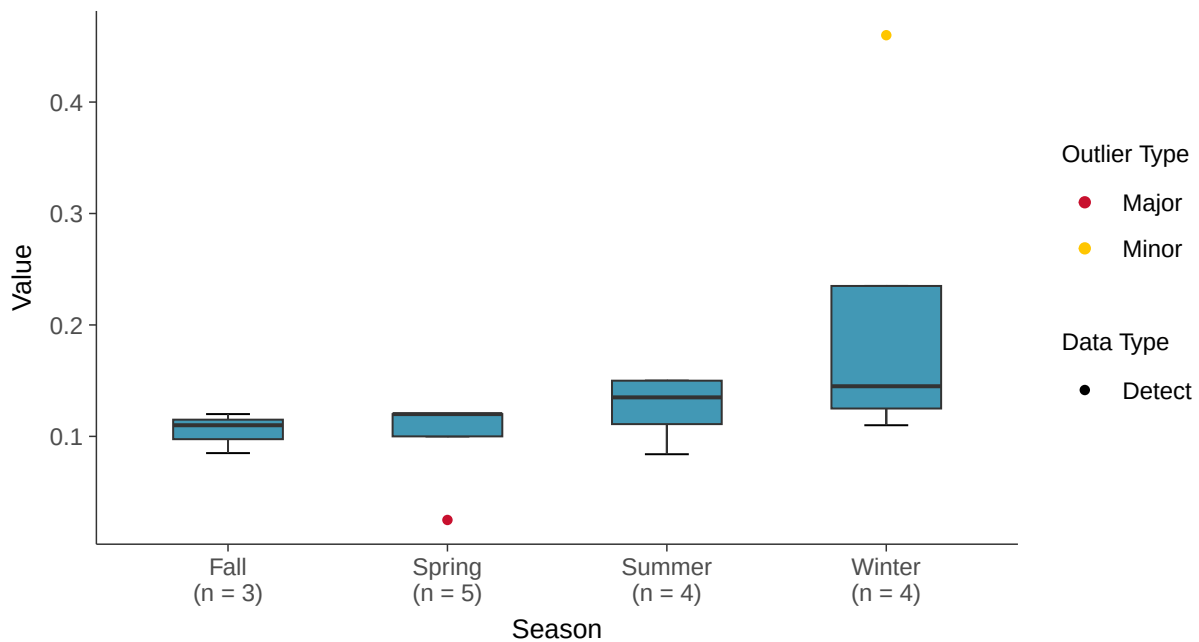
Boxplot

Barium, MW-04 (mg/L)



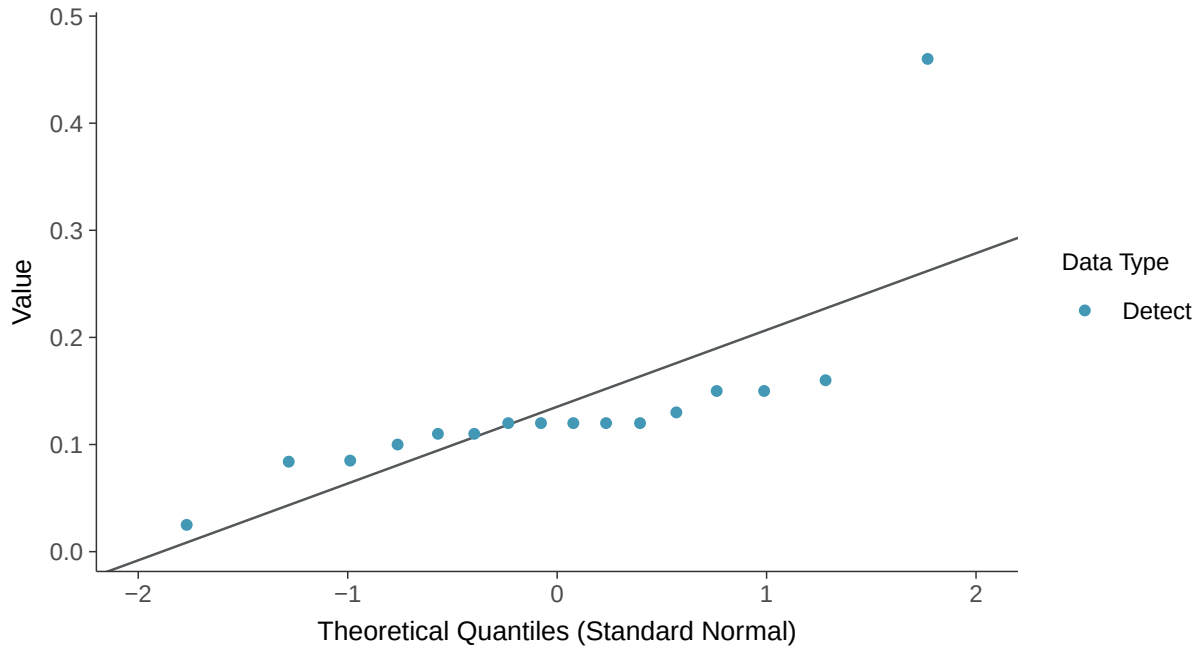
Boxplot by Season

Barium, MW-04 (mg/L)



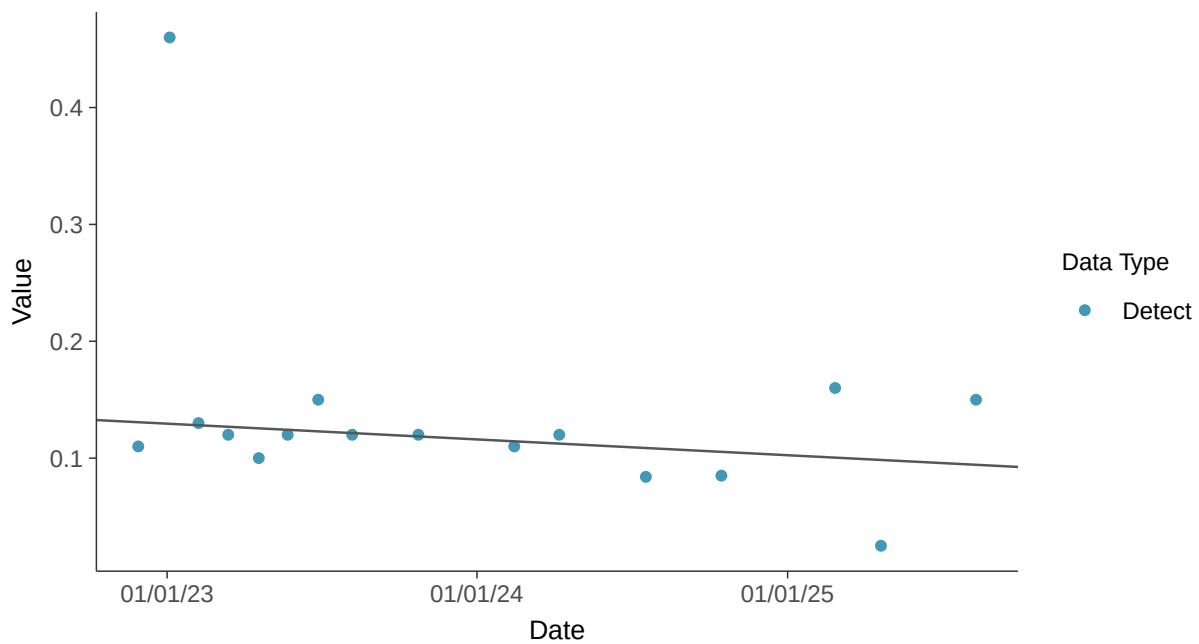
Normal Q-Q plot

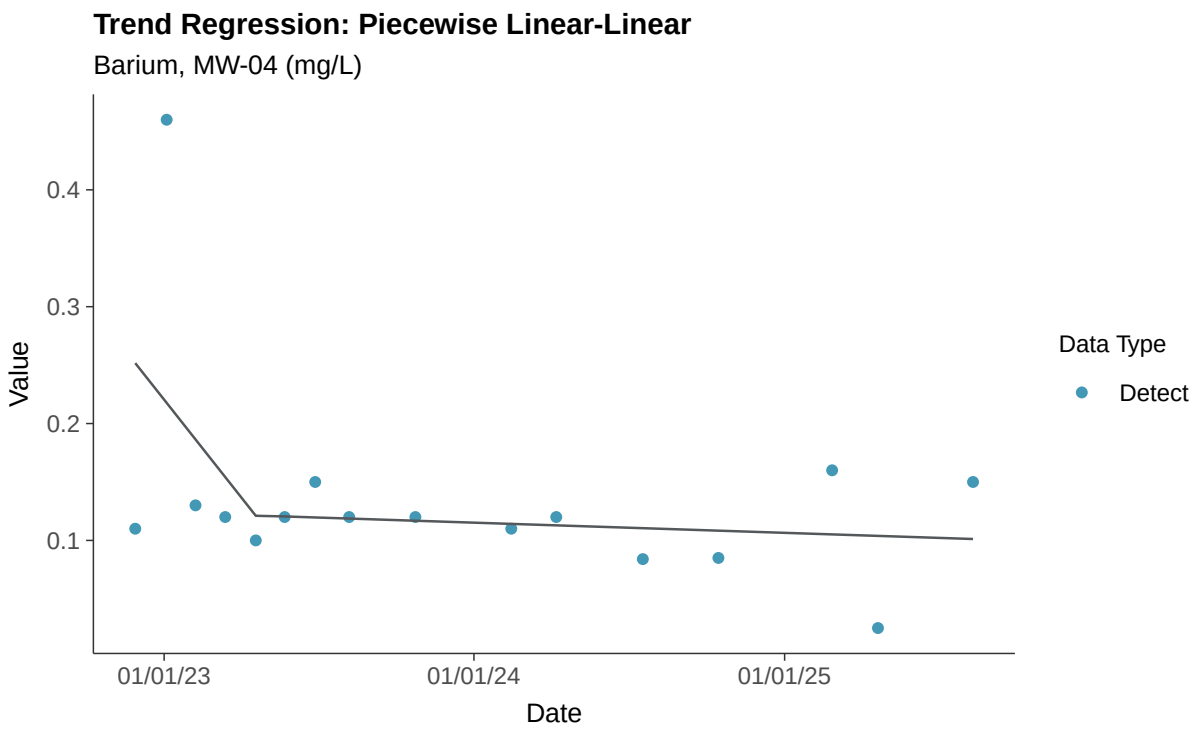
Barium, MW-04 (mg/L)

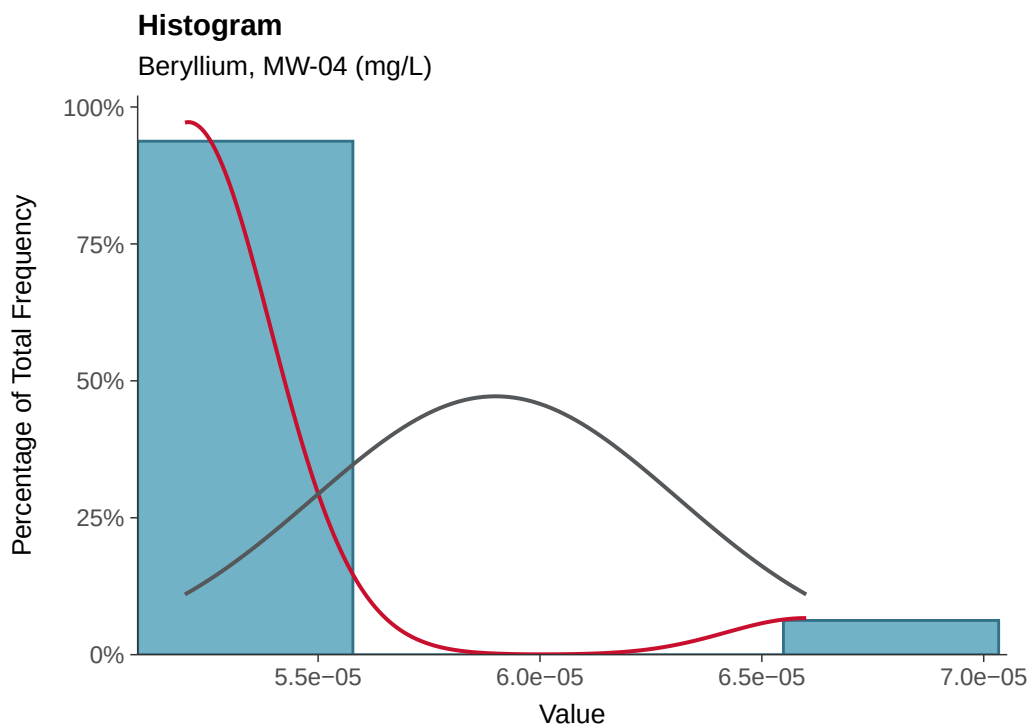


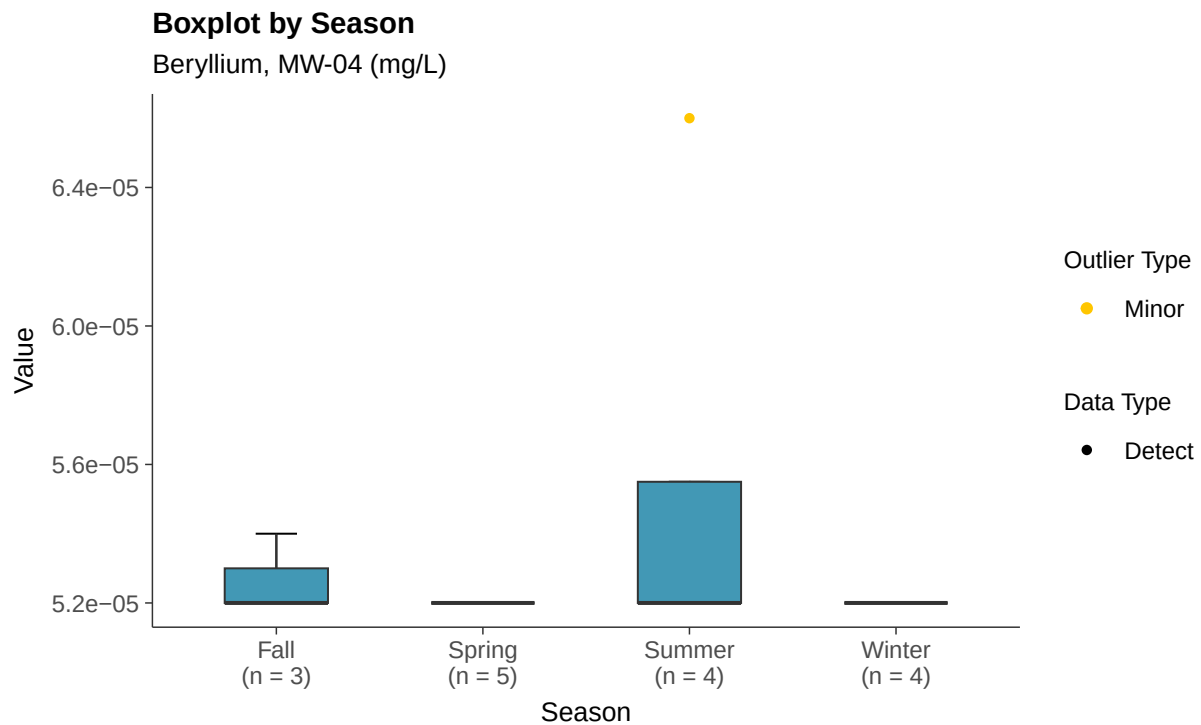
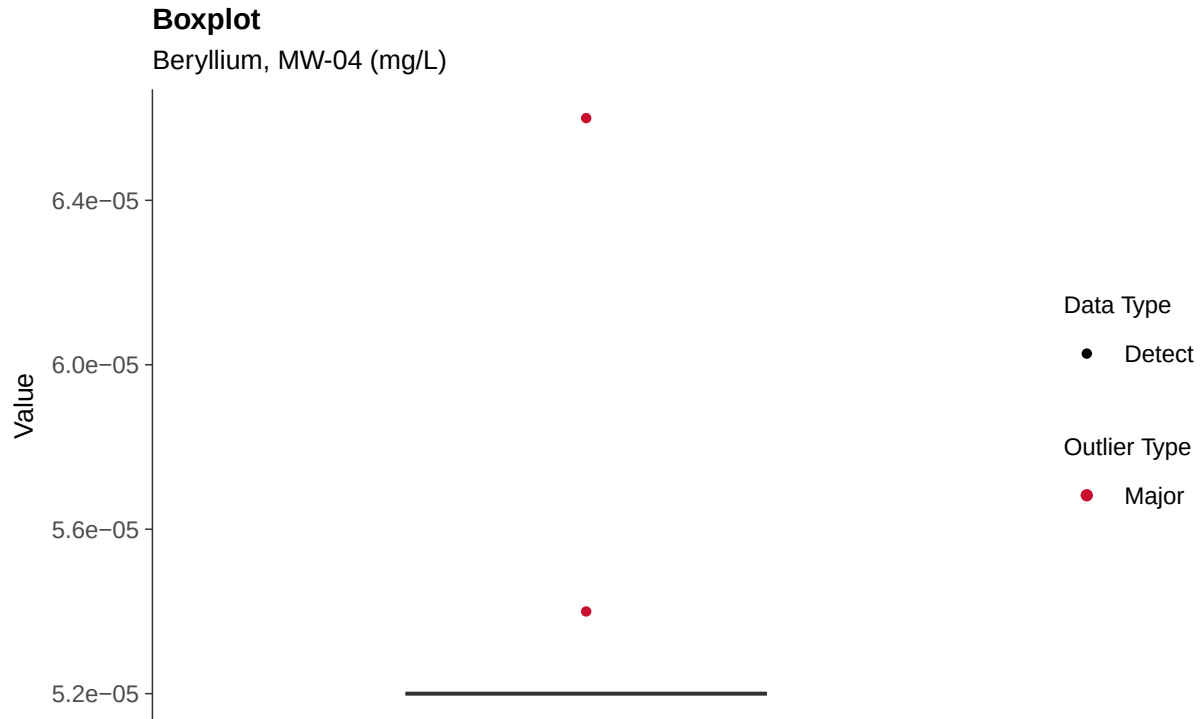
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-04 (mg/L)

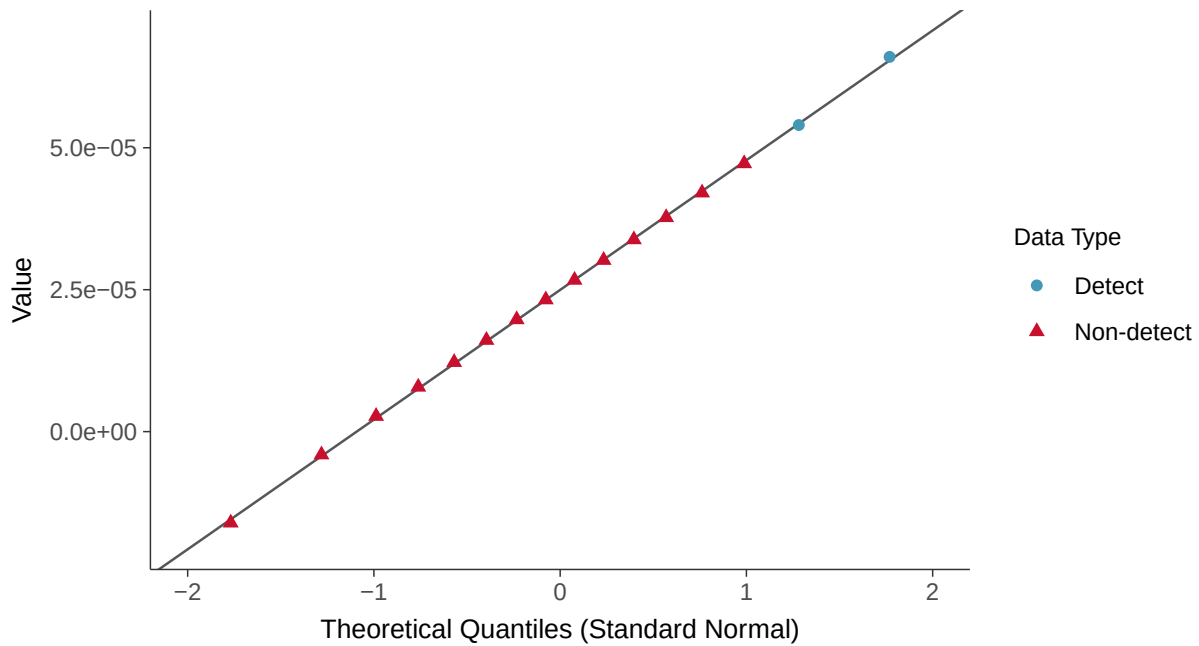




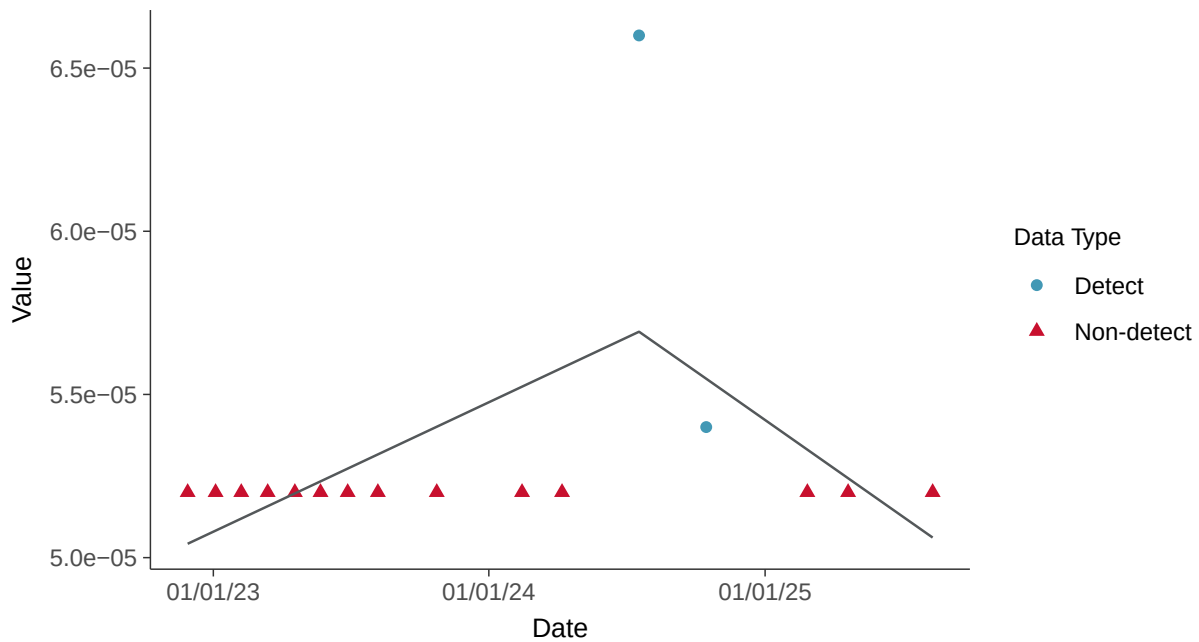




Beryllium, MW-04 (mg/L)



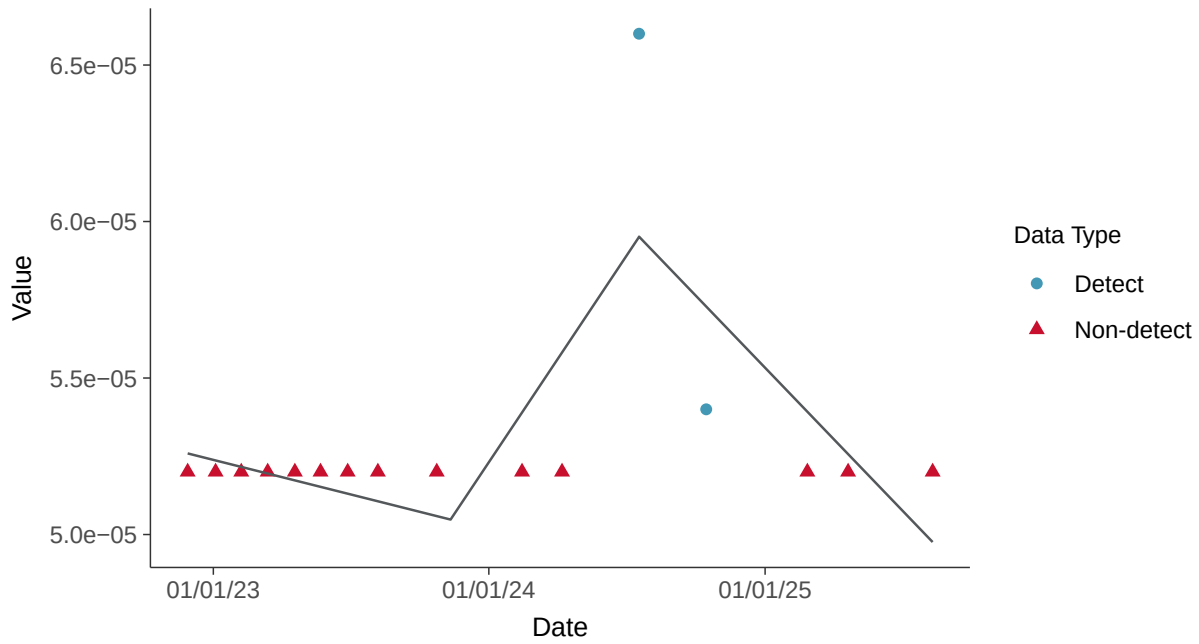
Beryllium, MW-04 (mg/L)





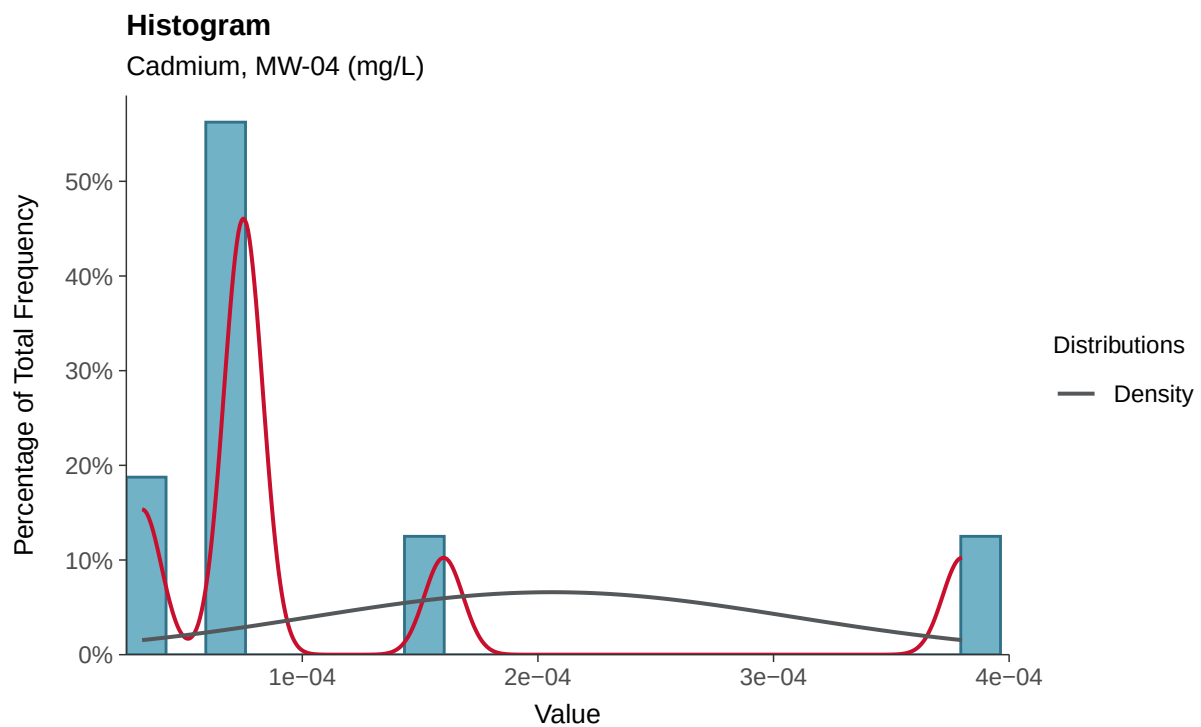
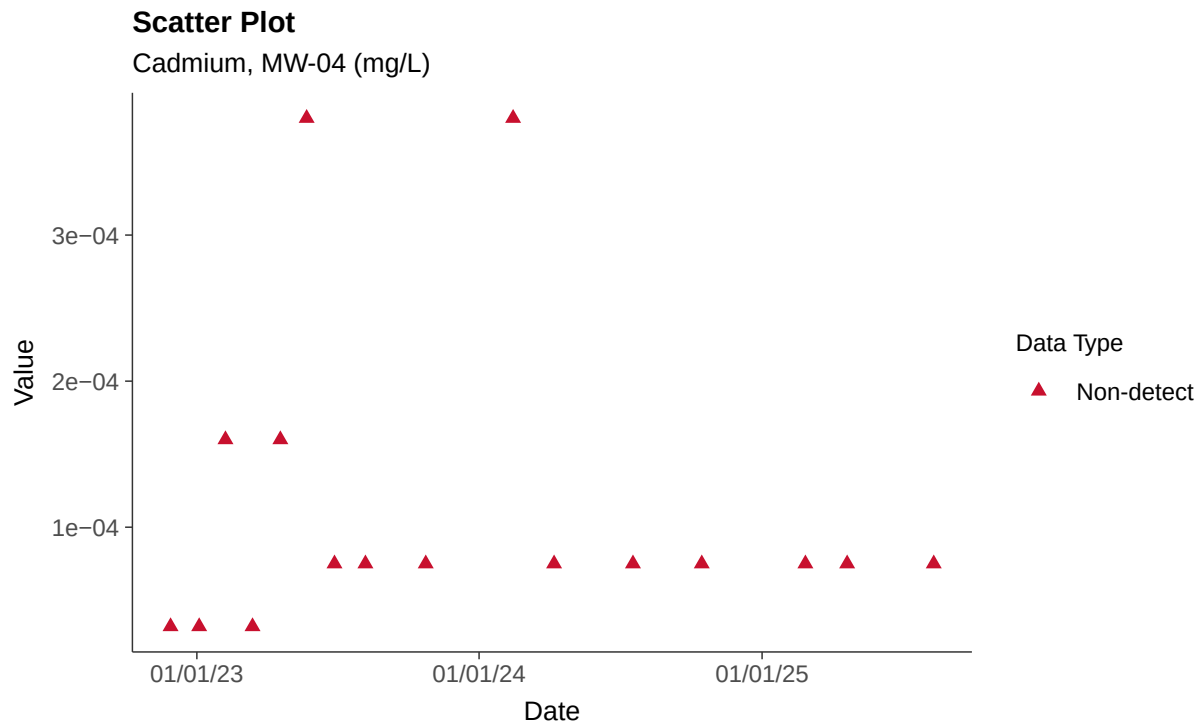
Trend Regression: Piecewise Linear-Linear-Linear

Beryllium, MW-04 (mg/L)



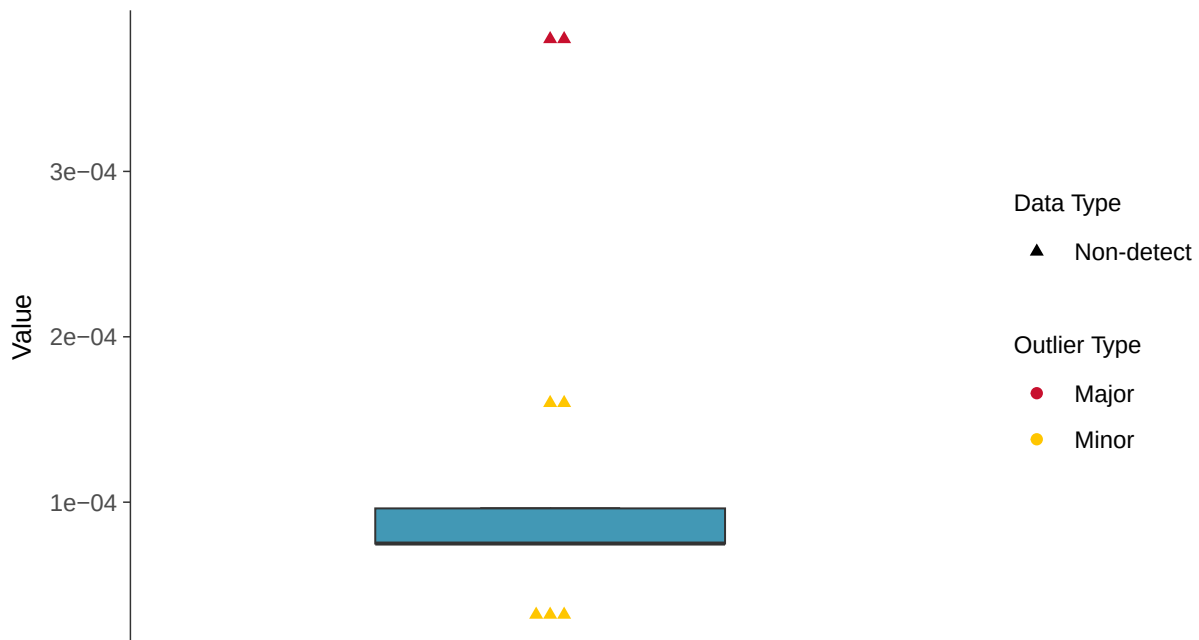
Appendix IV: Cadmium, MW-04

ID: 14_2_4_106



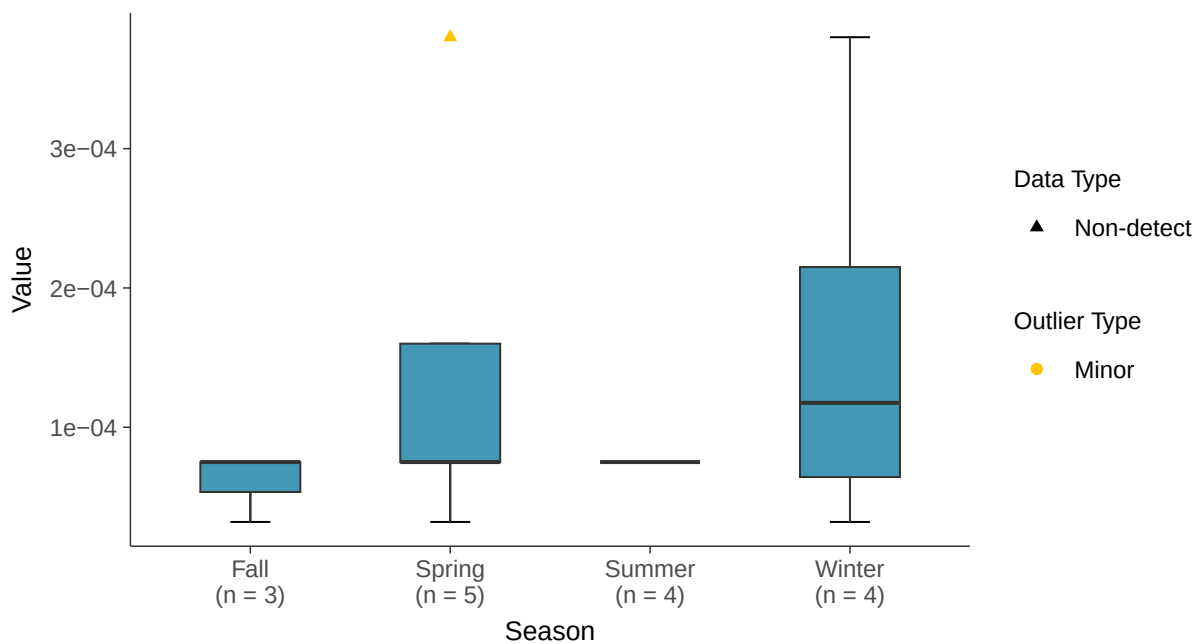
Boxplot

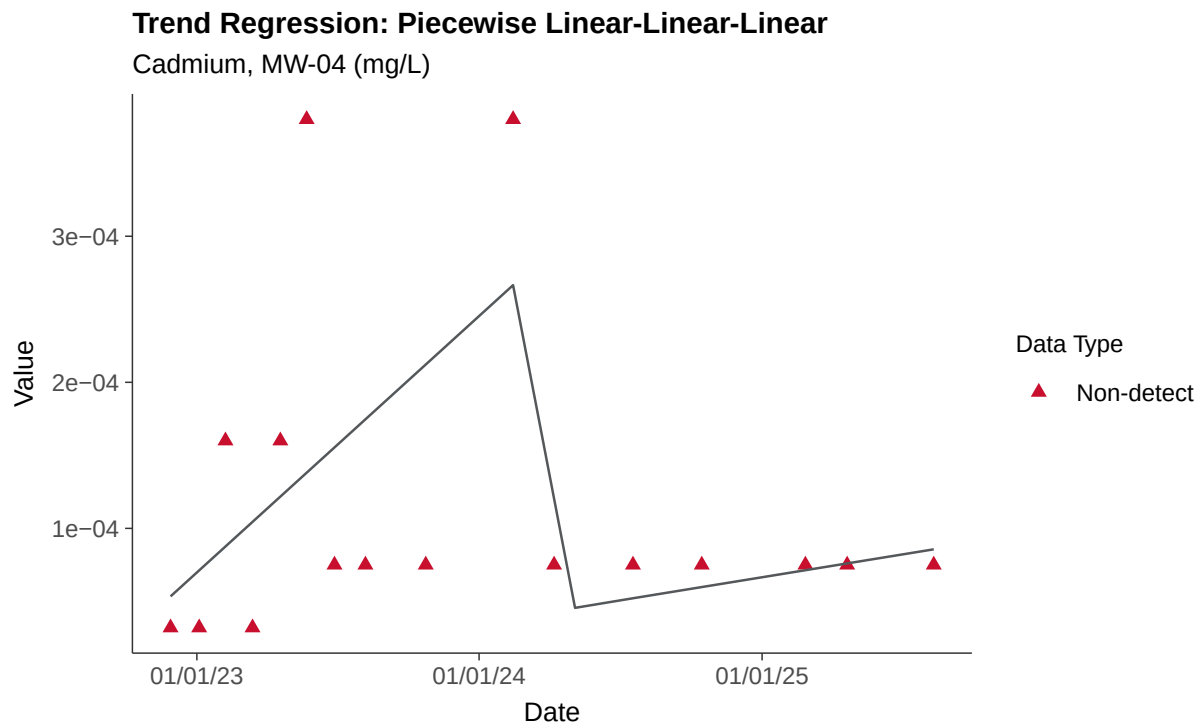
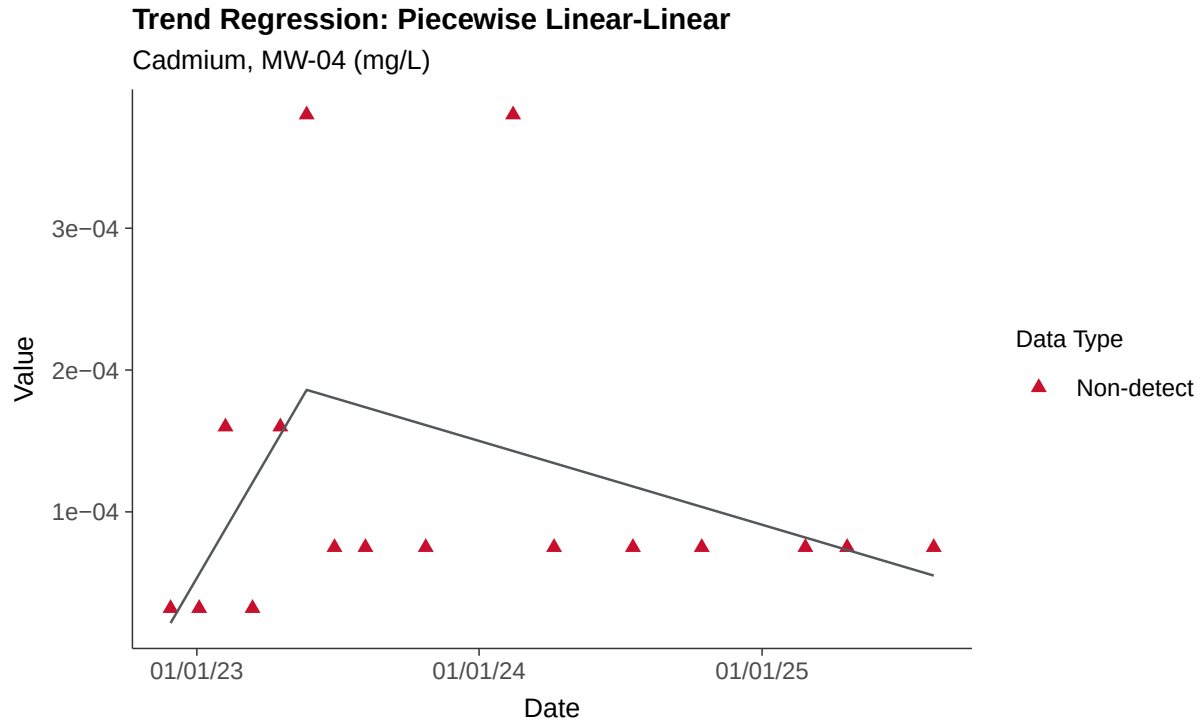
Cadmium, MW-04 (mg/L)



Boxplot by Season

Cadmium, MW-04 (mg/L)



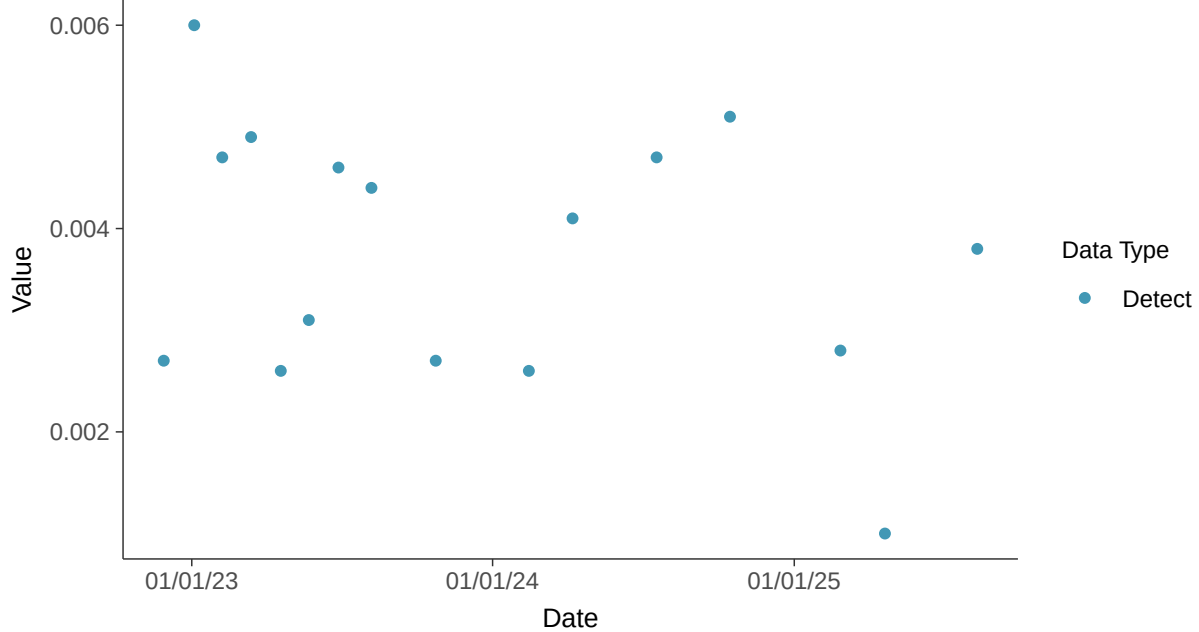


Appendix IV: Chromium, Total, MW-04

ID: 14_2_4_109

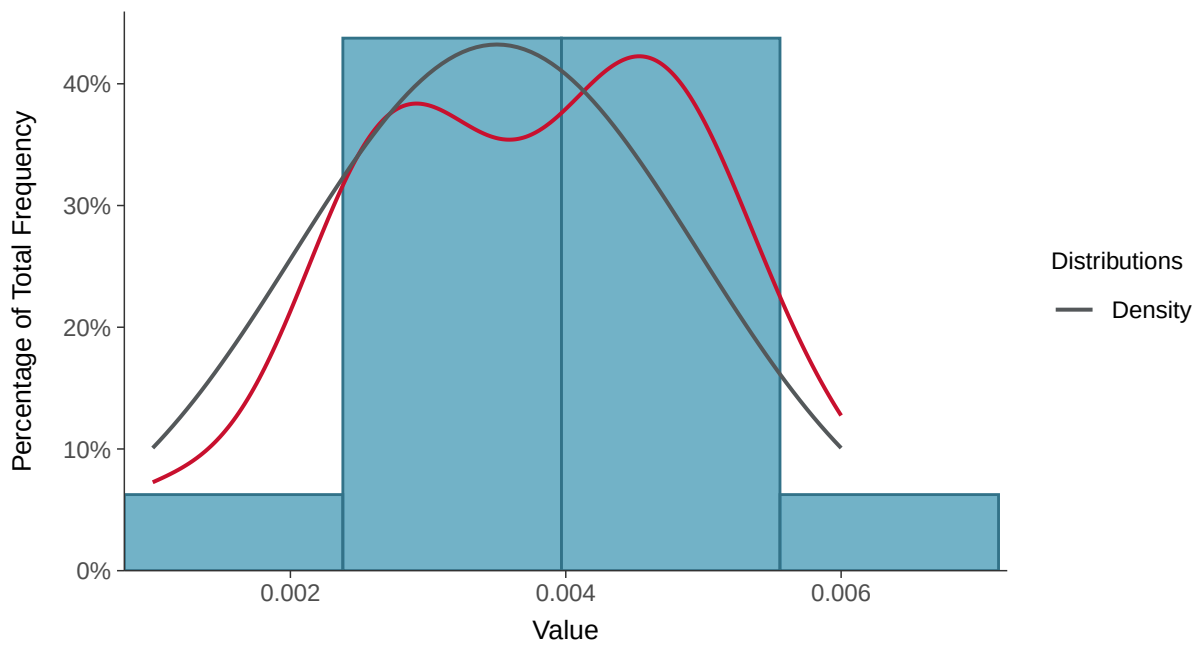
Scatter Plot

Chromium, Total, MW-04 (mg/L)



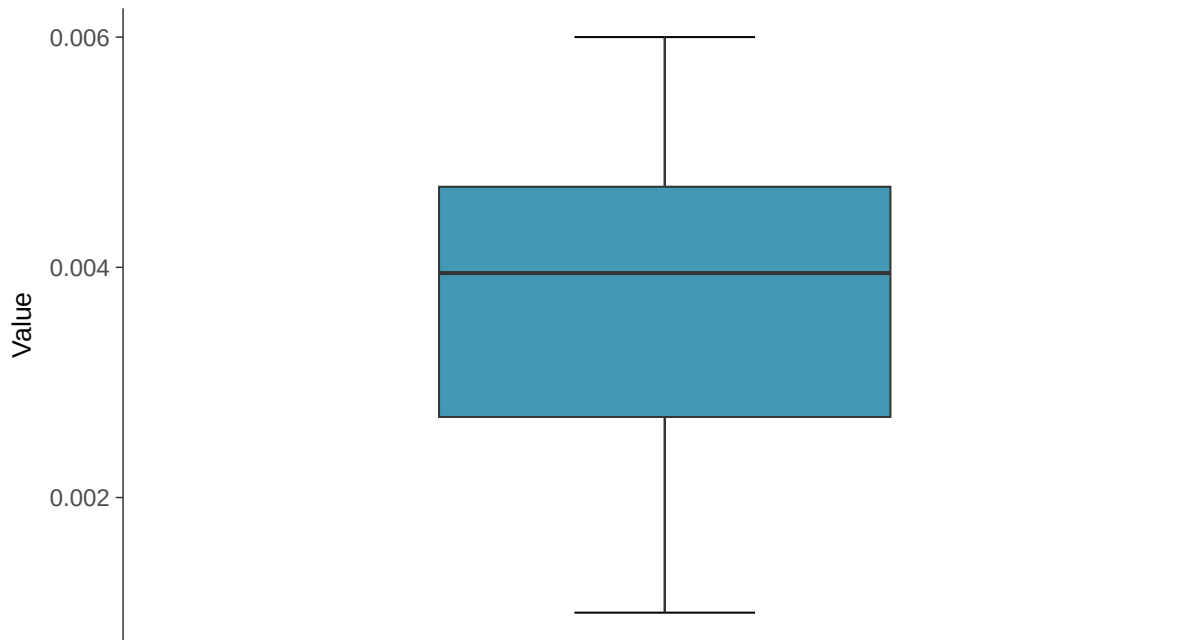
Histogram

Chromium, Total, MW-04 (mg/L)



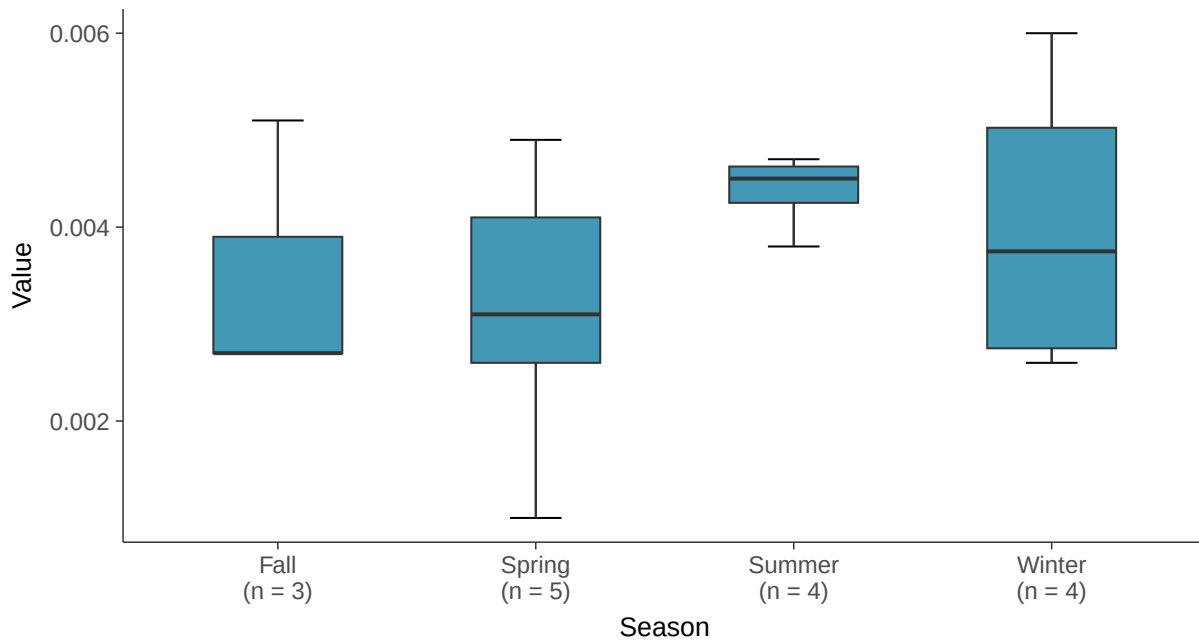
Boxplot

Chromium, Total, MW-04 (mg/L)



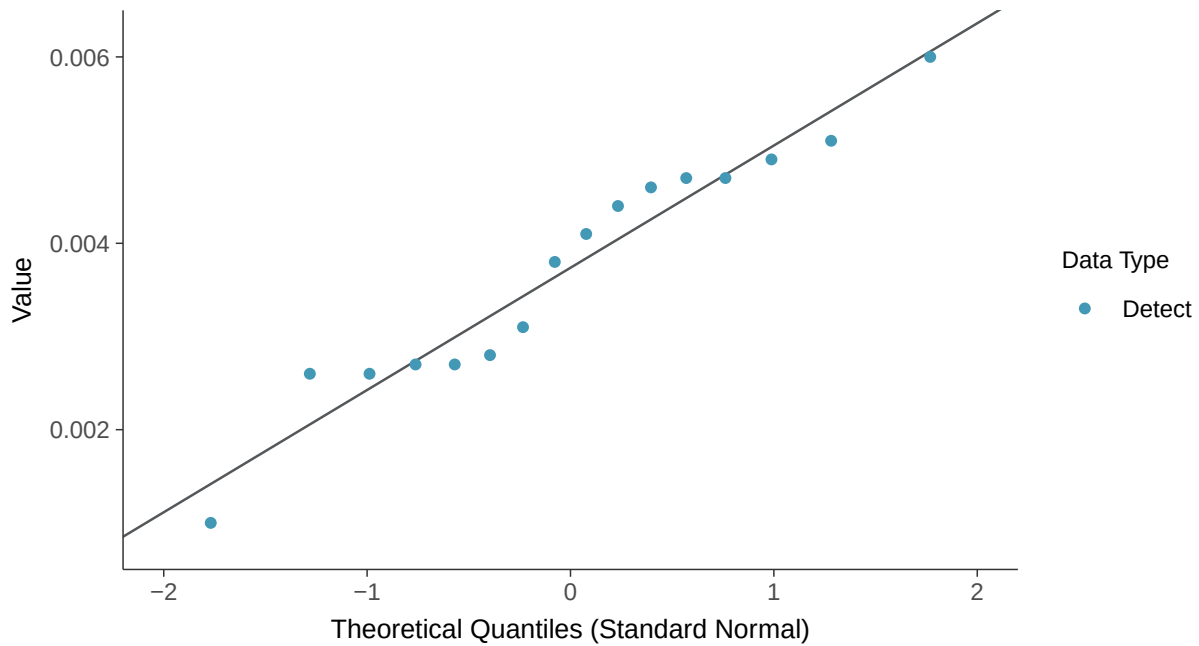
Boxplot by Season

Chromium, Total, MW-04 (mg/L)



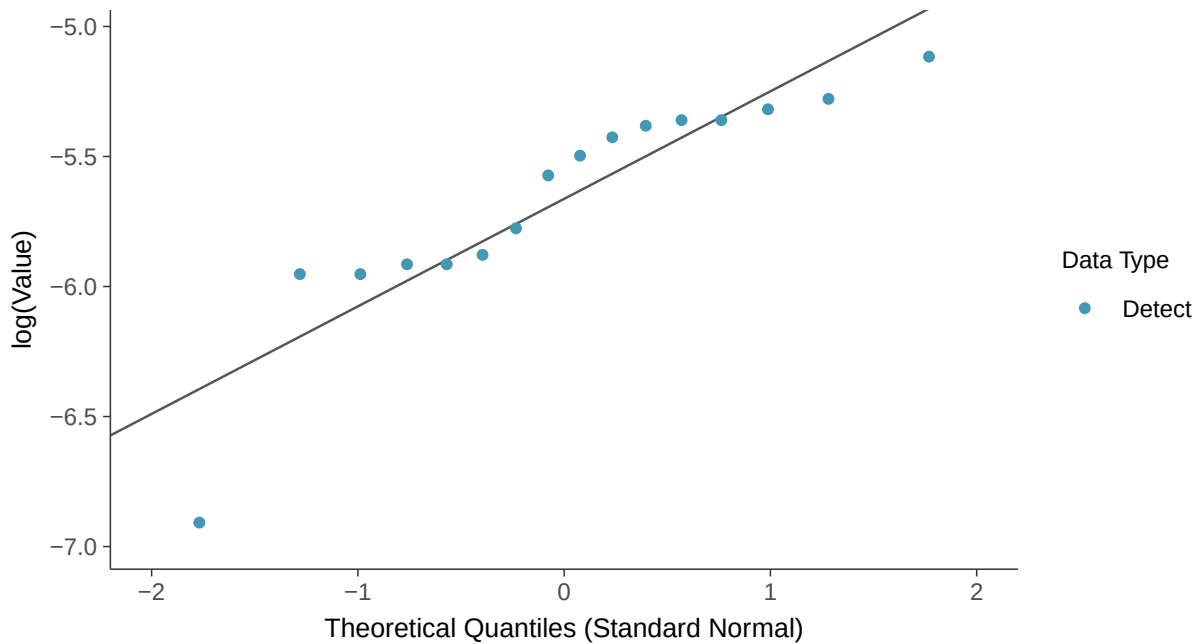
Normal Q-Q plot

Chromium, Total, MW-04 (mg/L)



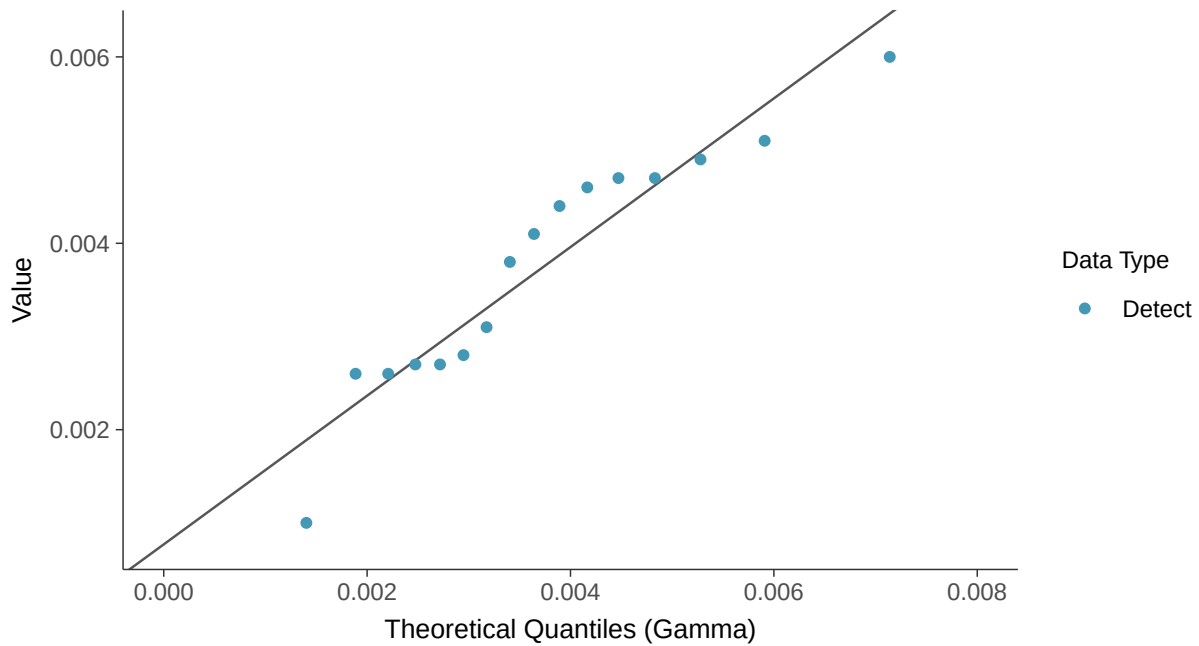
Lognormal Q-Q plot

Chromium, Total, MW-04 (mg/L)



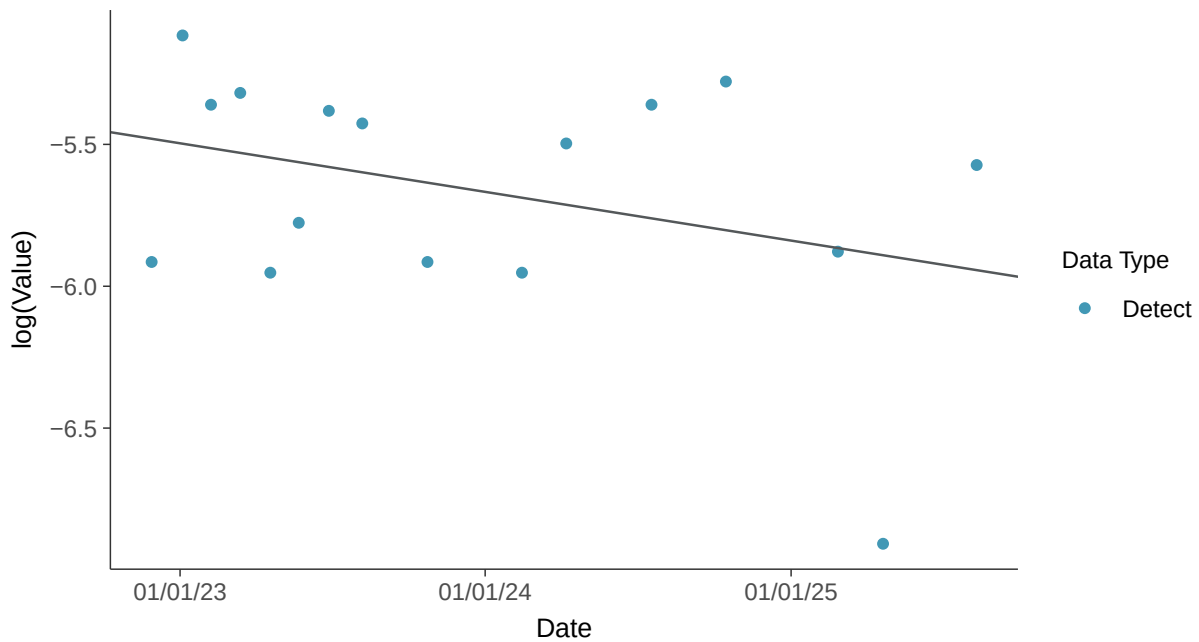
Gamma Q-Q plot

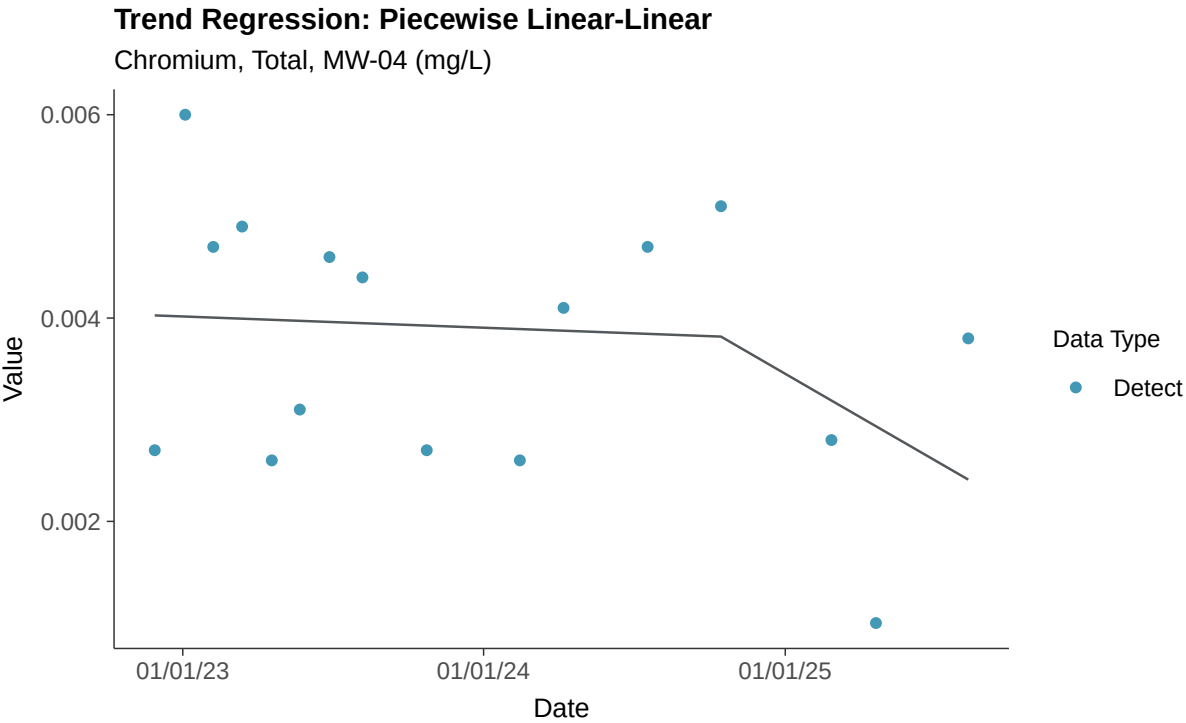
Chromium, Total, MW-04 (mg/L)



Trend Regression: Lognormal MLE

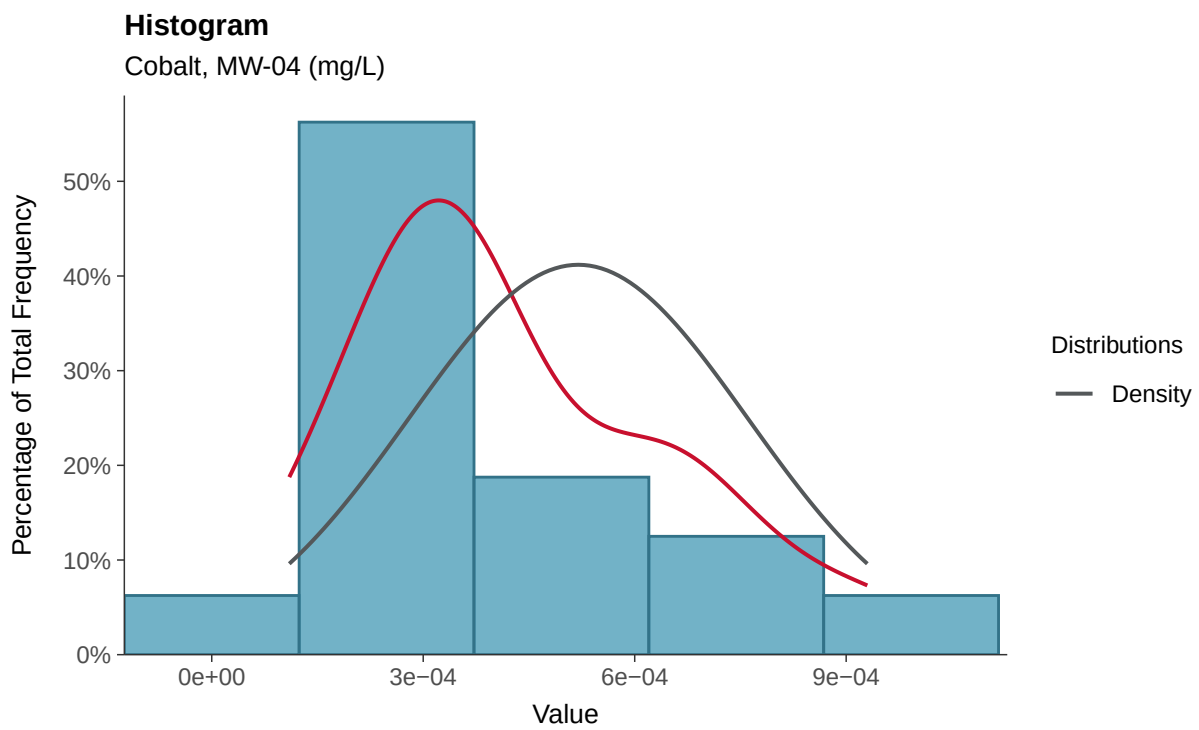
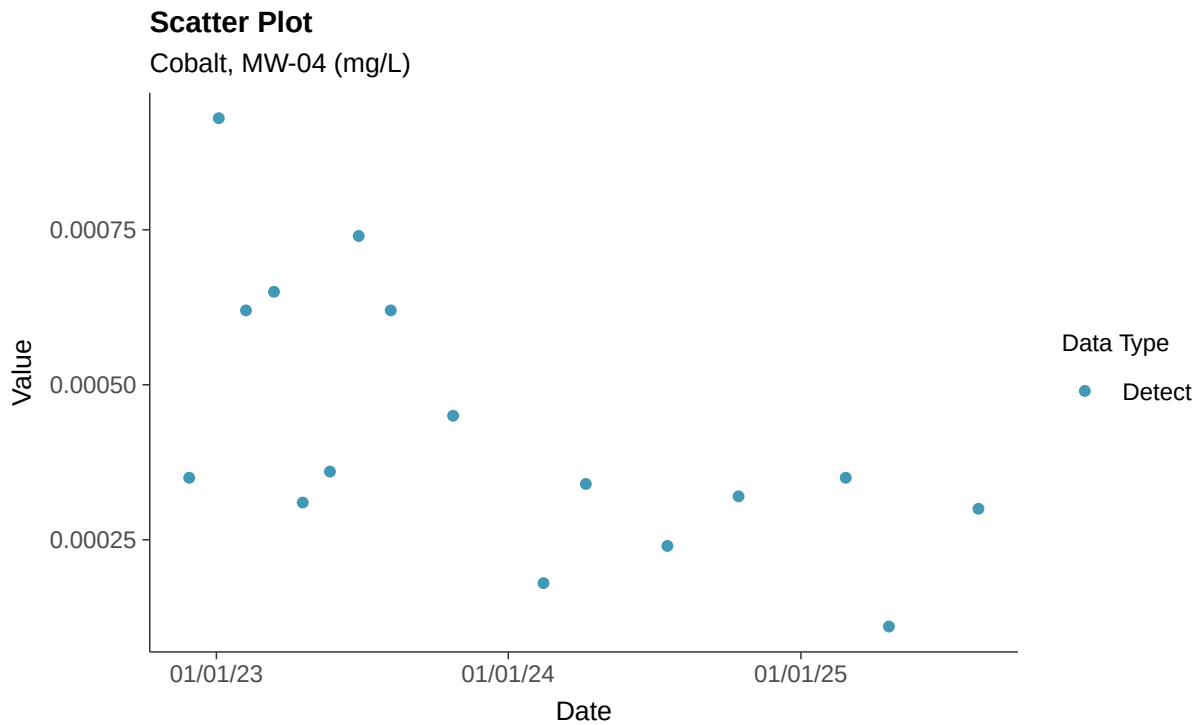
Chromium, Total, MW-04 (mg/L)





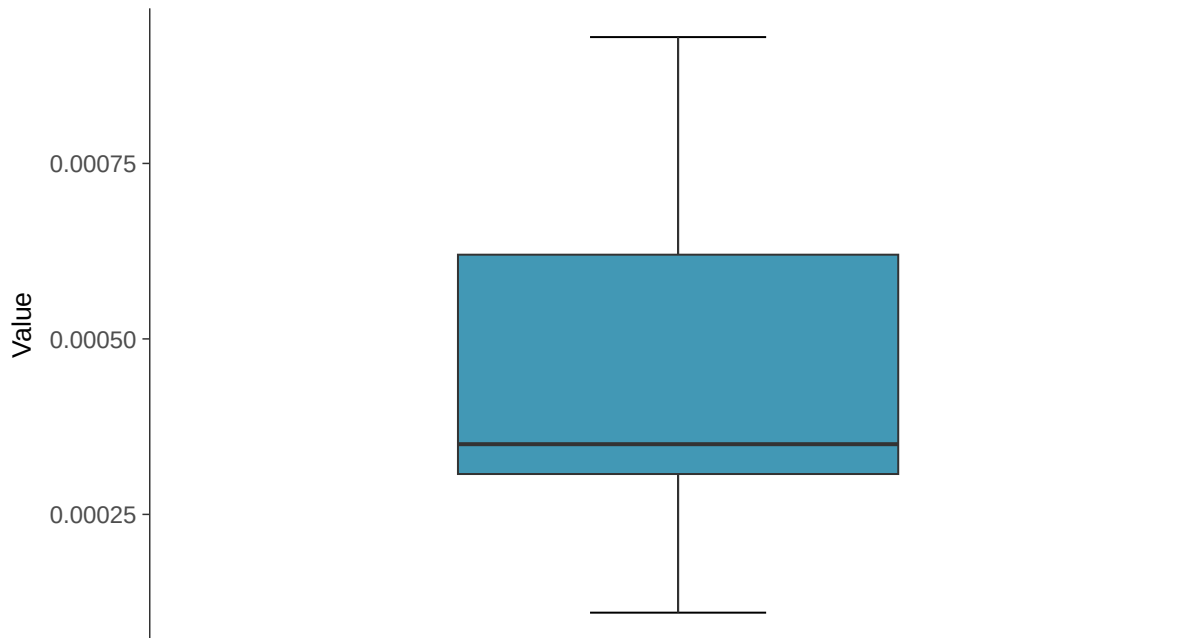
Appendix IV: Cobalt, MW-04

ID: 14_2_4_110



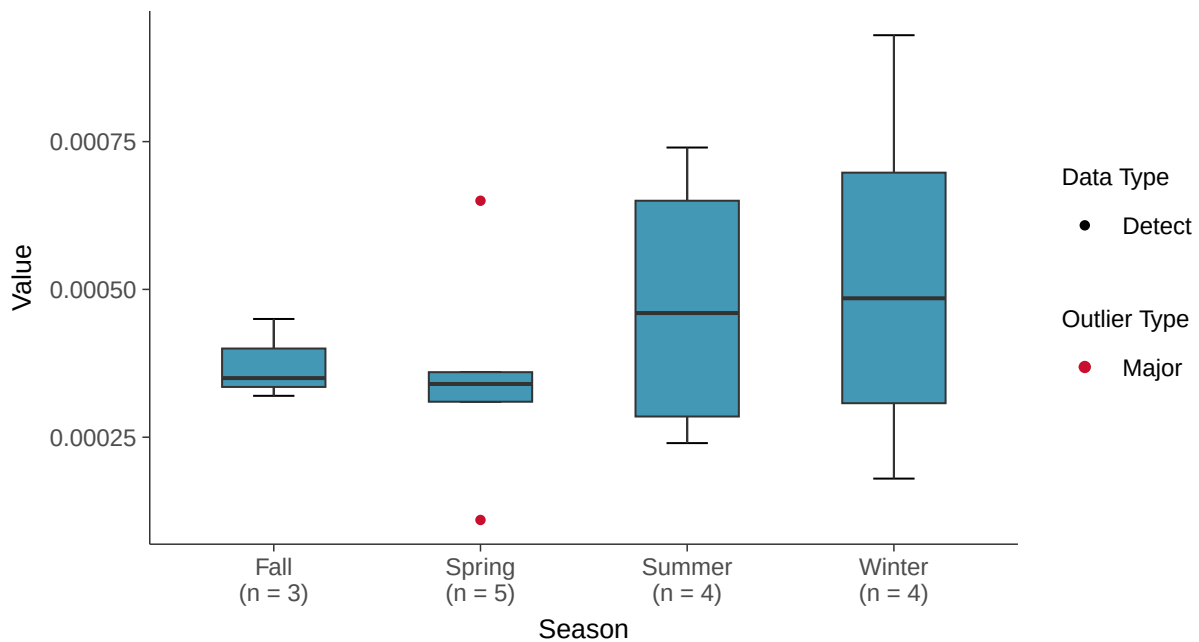
Boxplot

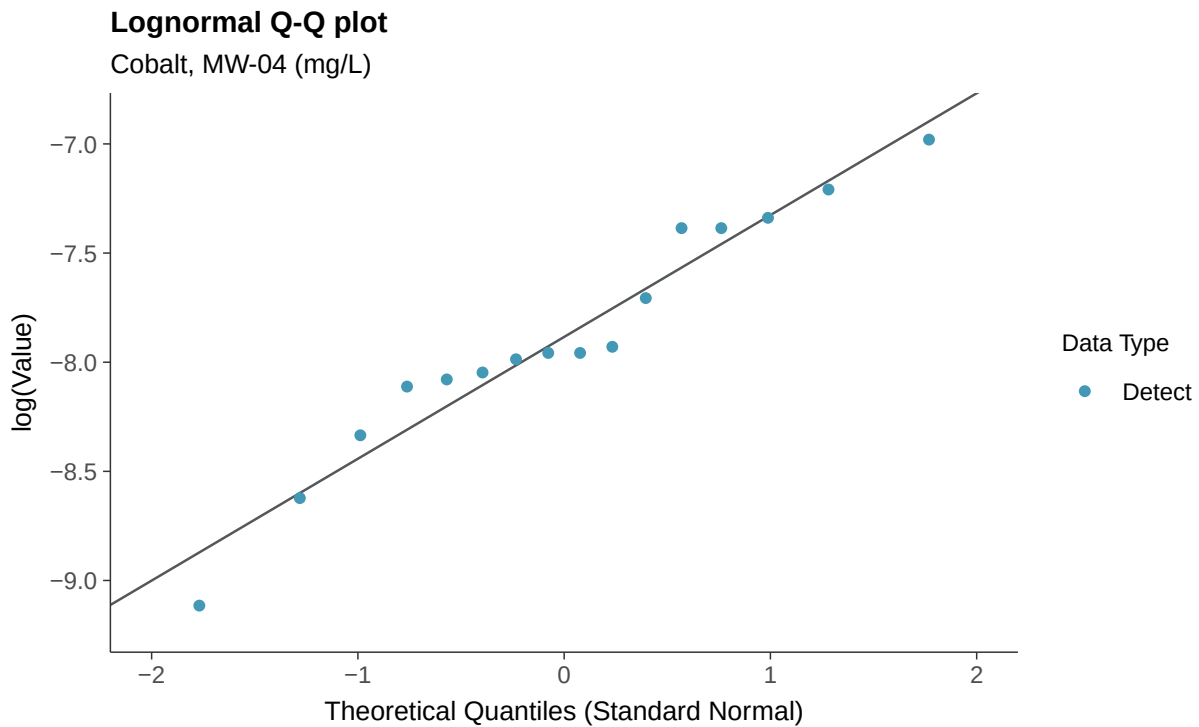
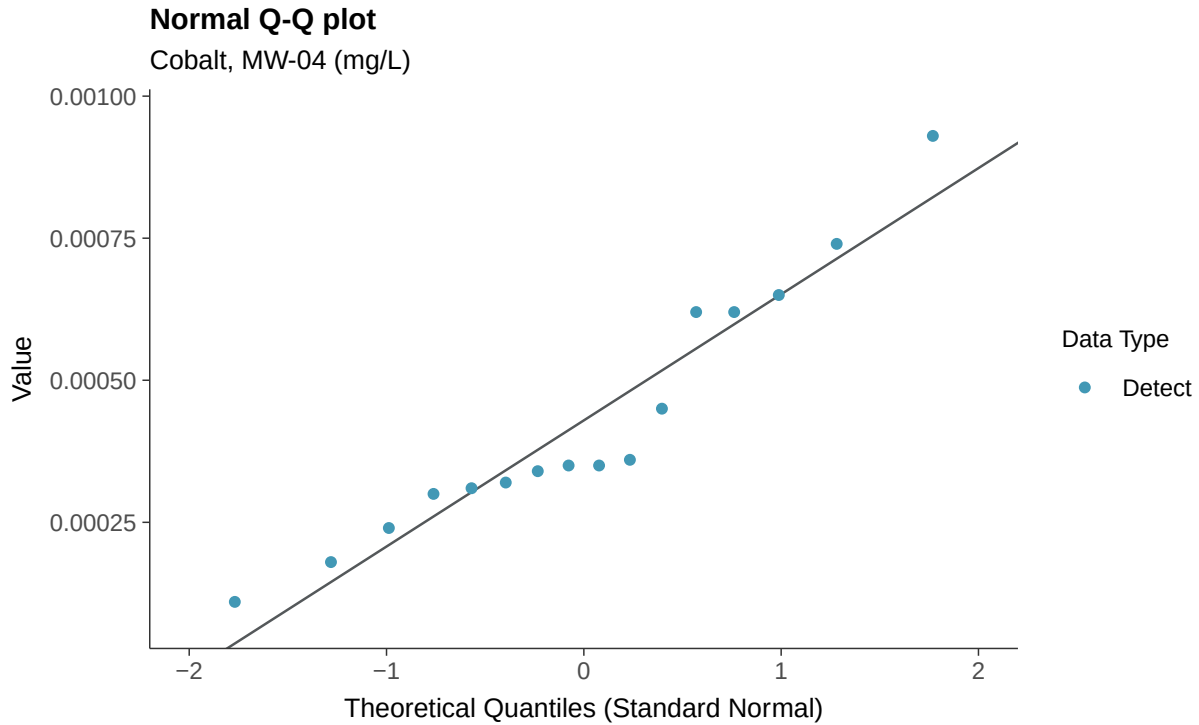
Cobalt, MW-04 (mg/L)

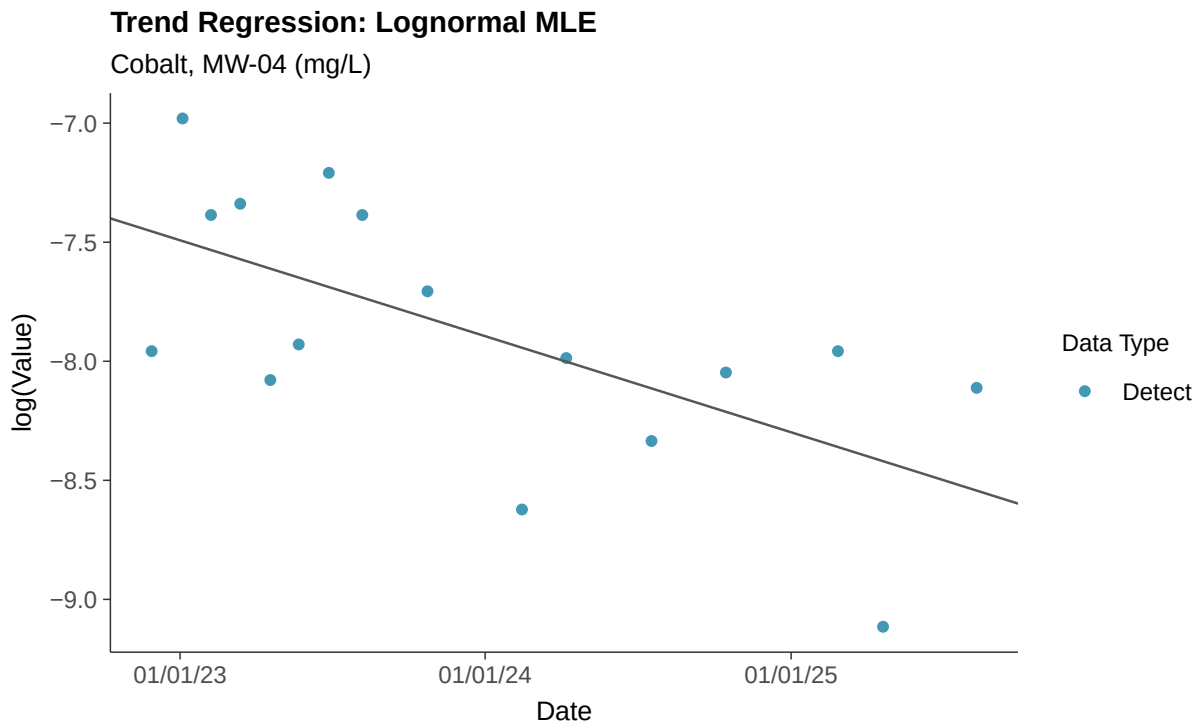
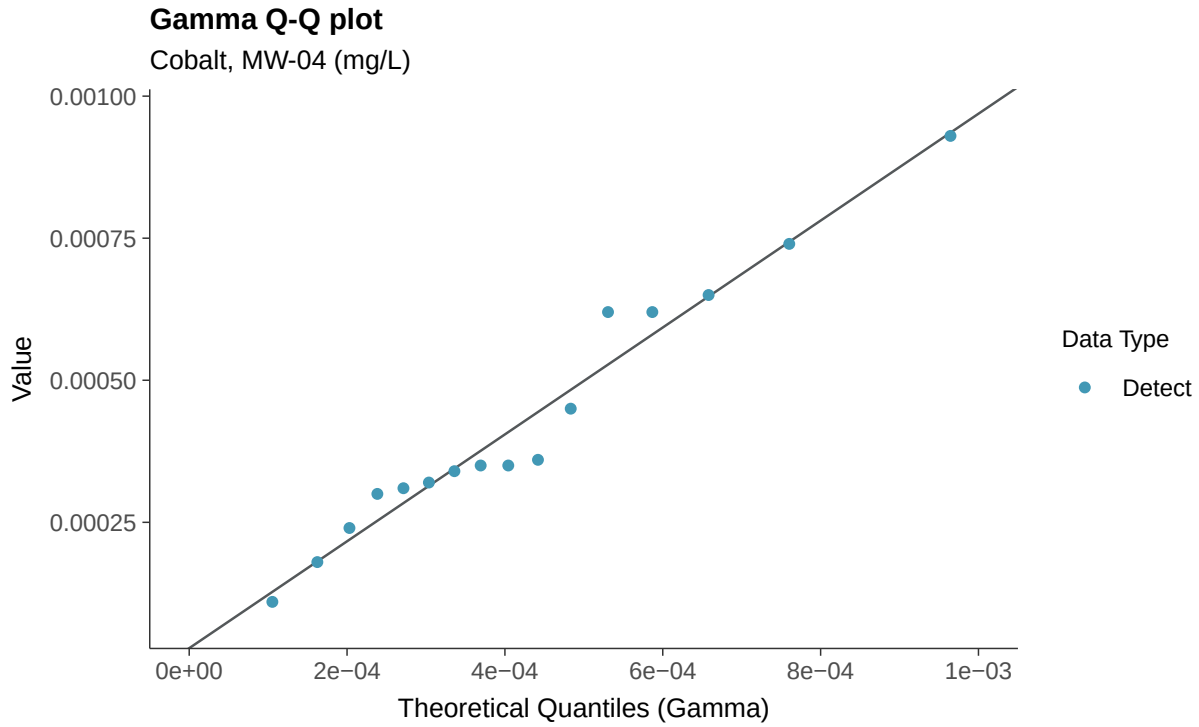


Boxplot by Season

Cobalt, MW-04 (mg/L)

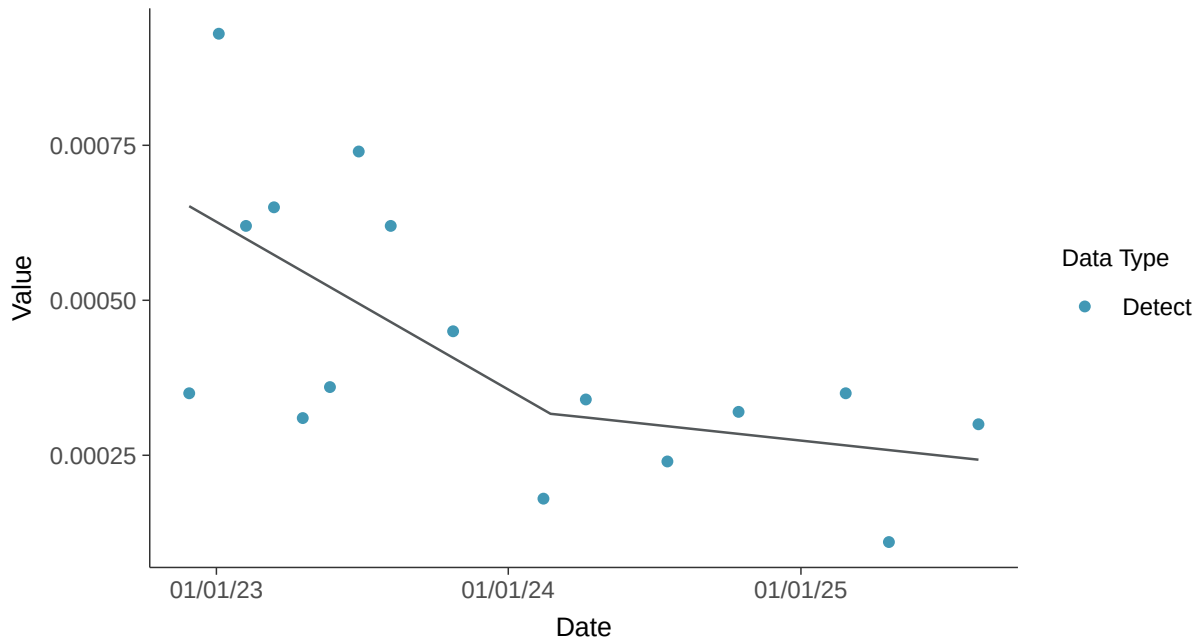






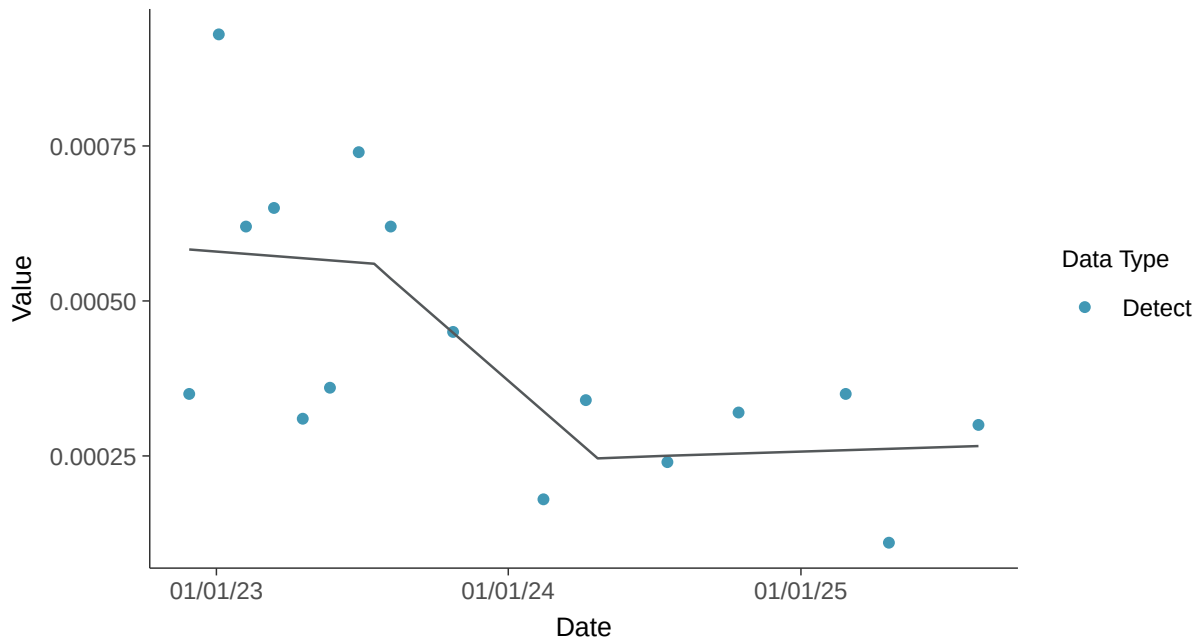
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-04 (mg/L)

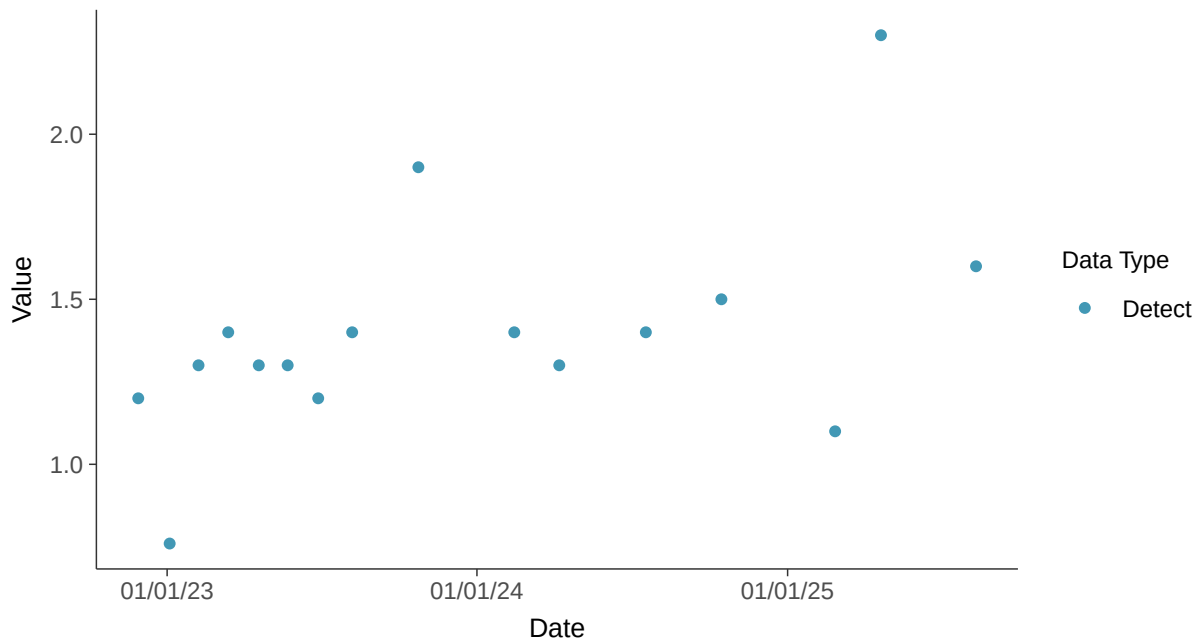


Appendix IV: Fluoride (App IV), MW-04

ID: 14_2_4_113

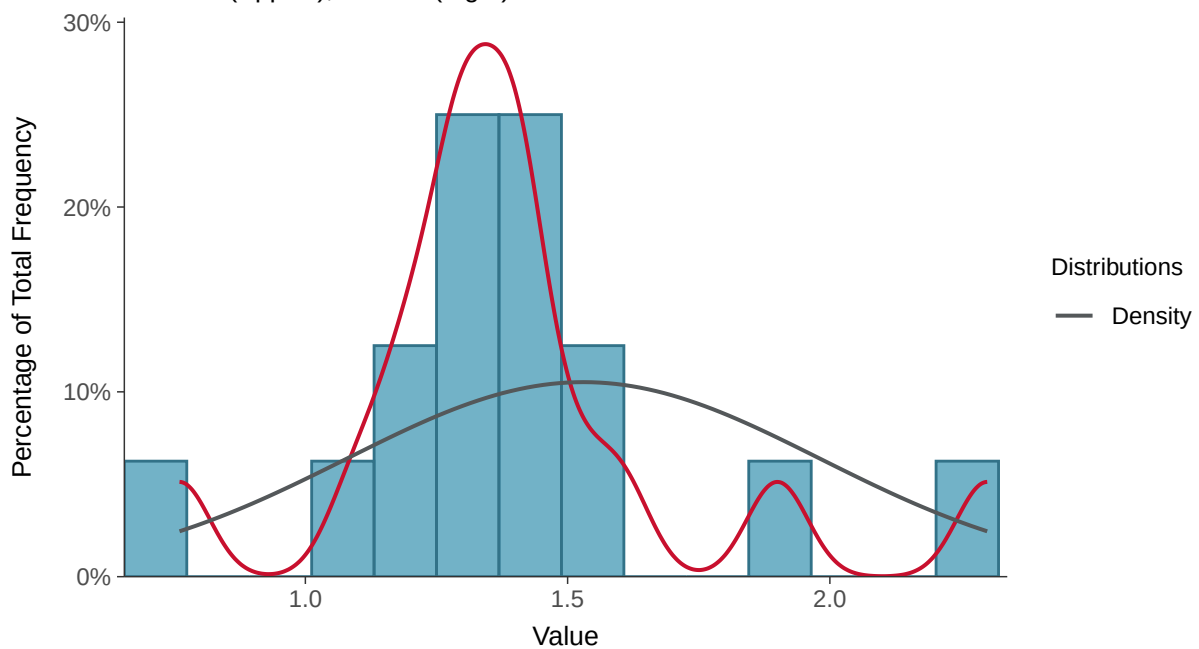
Scatter Plot

Fluoride (App IV), MW-04 (mg/L)



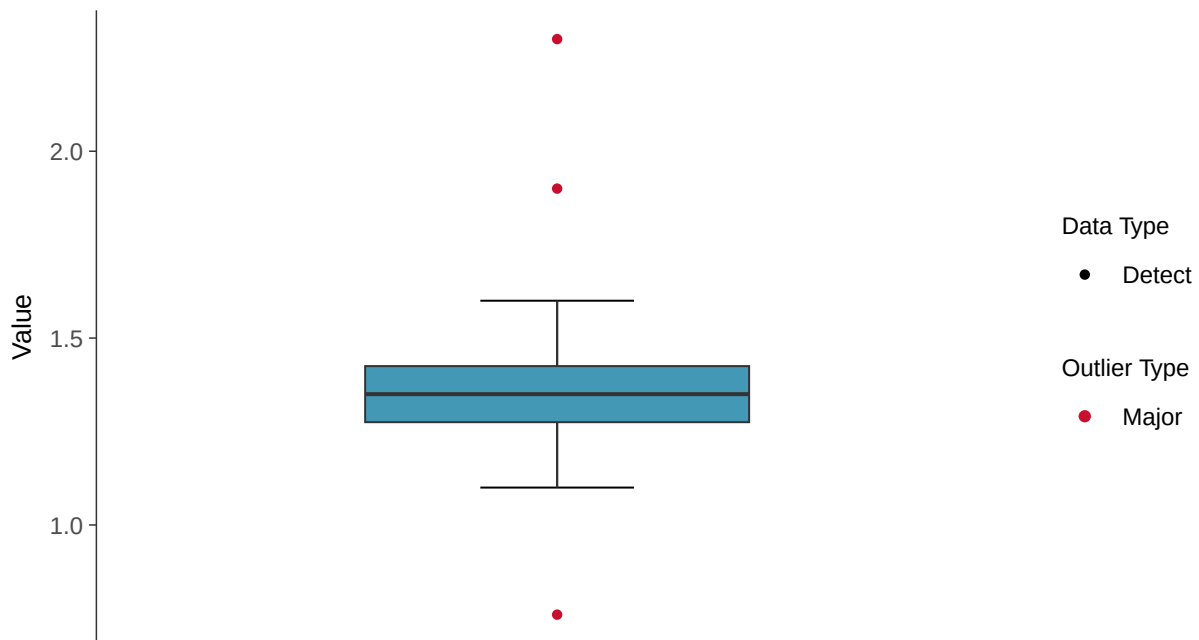
Histogram

Fluoride (App IV), MW-04 (mg/L)



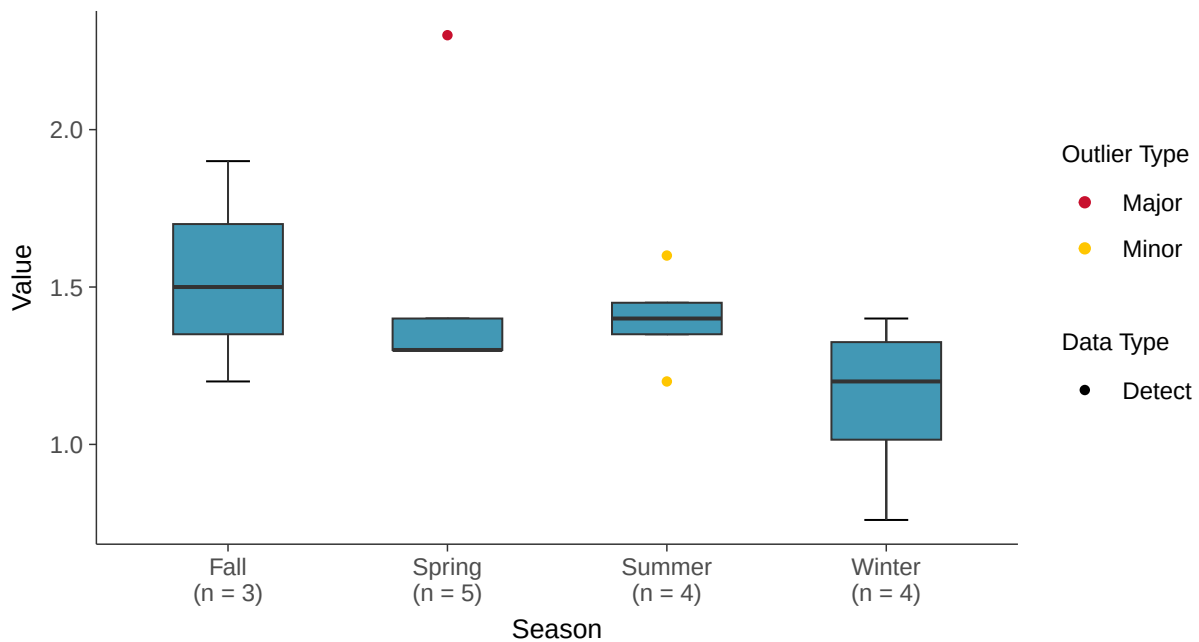
Boxplot

Fluoride (App IV), MW-04 (mg/L)



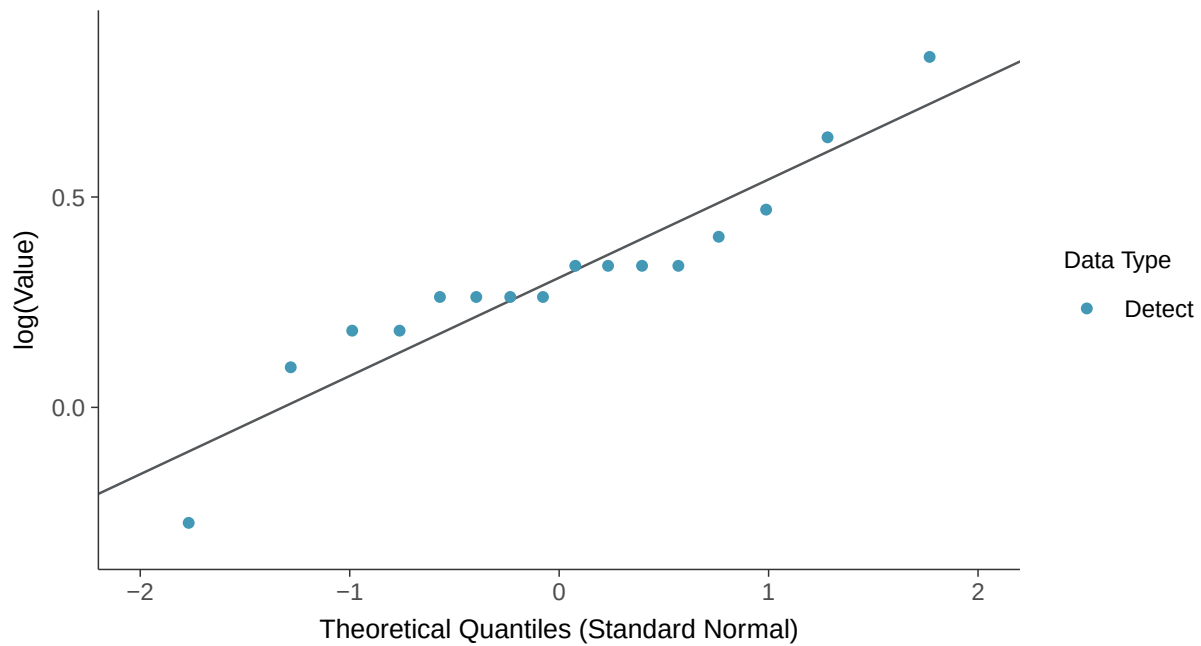
Boxplot by Season

Fluoride (App IV), MW-04 (mg/L)



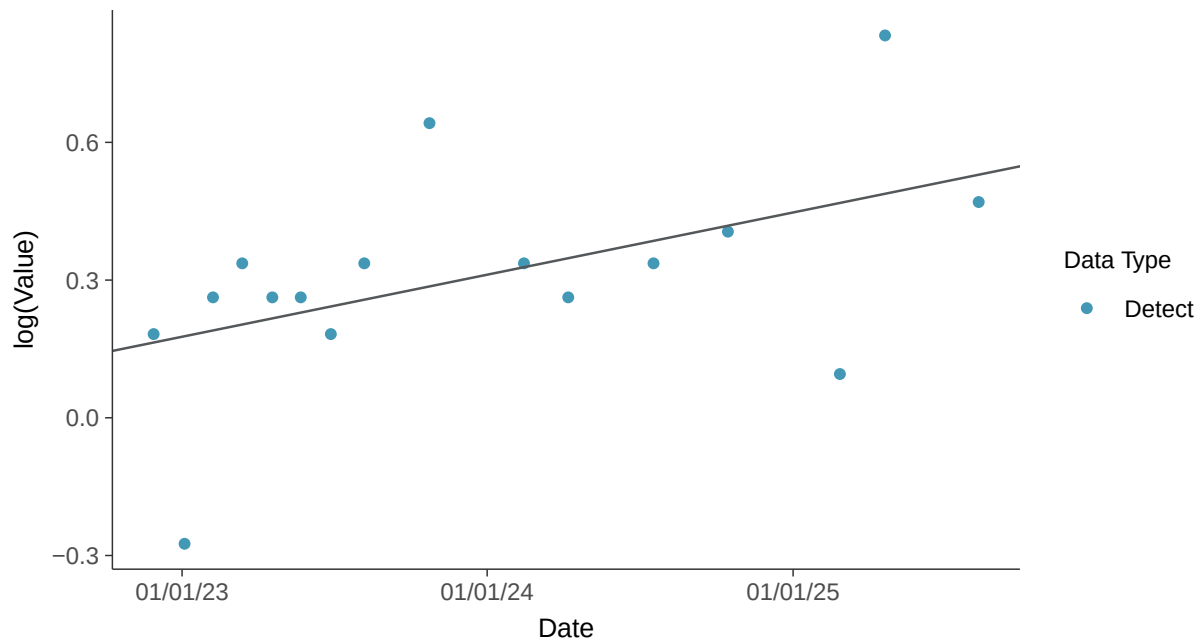
Lognormal Q-Q plot

Fluoride (App IV), MW-04 (mg/L)



Trend Regression: Lognormal MLE

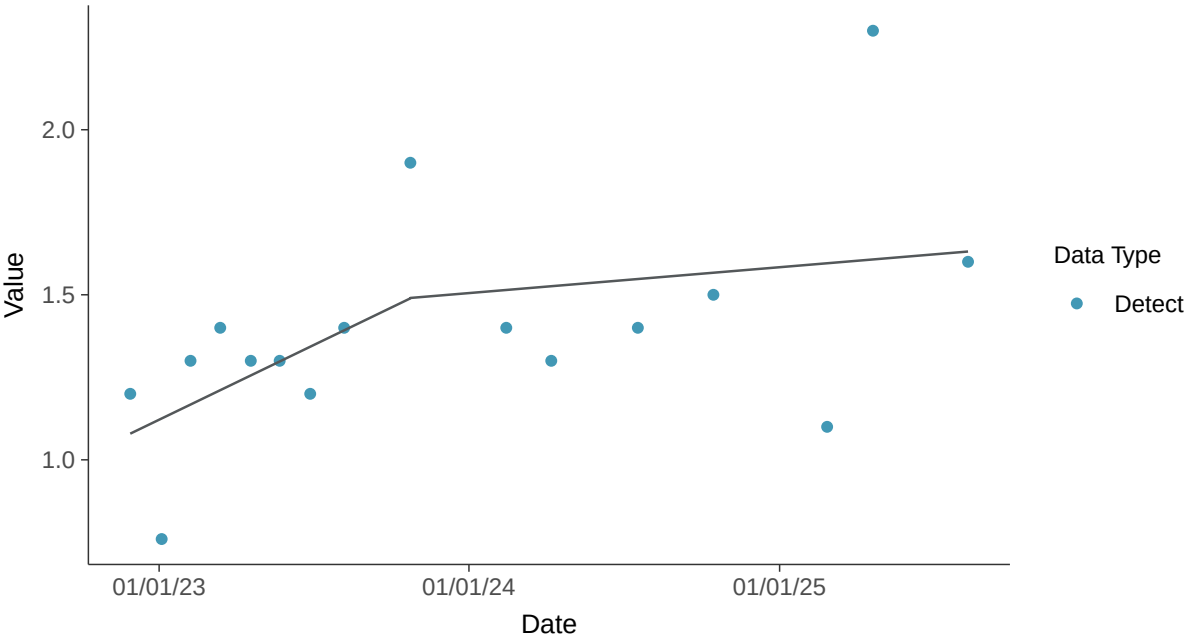
Fluoride (App IV), MW-04 (mg/L)





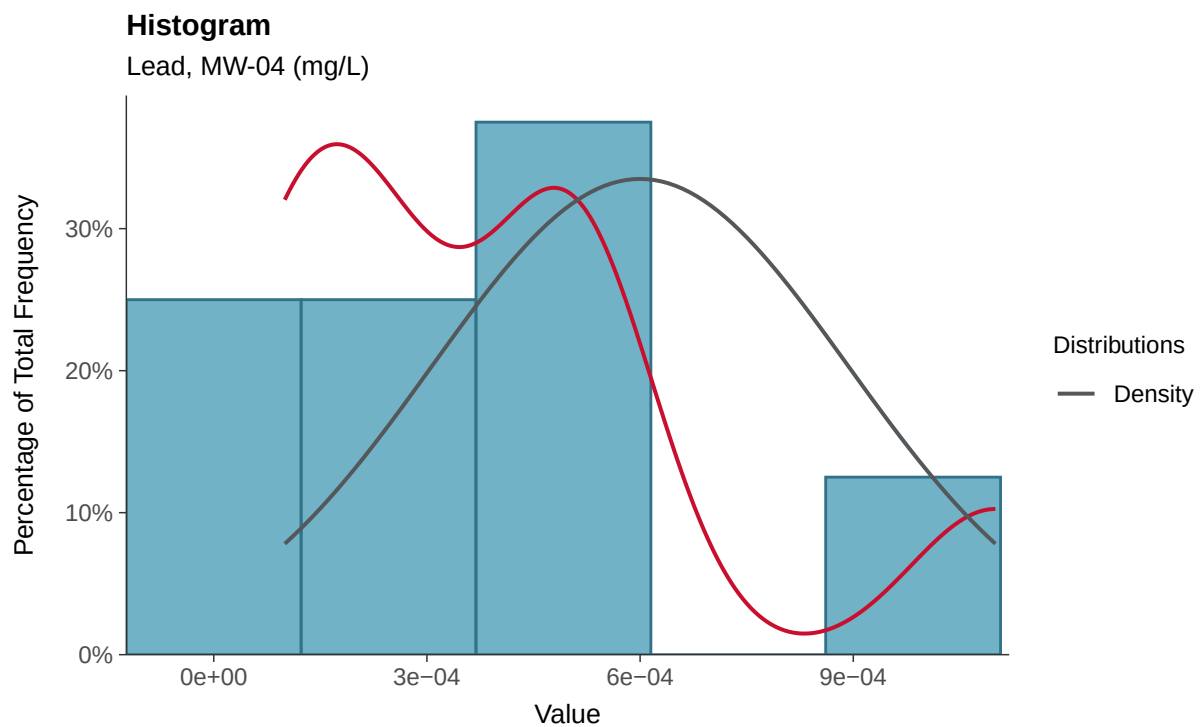
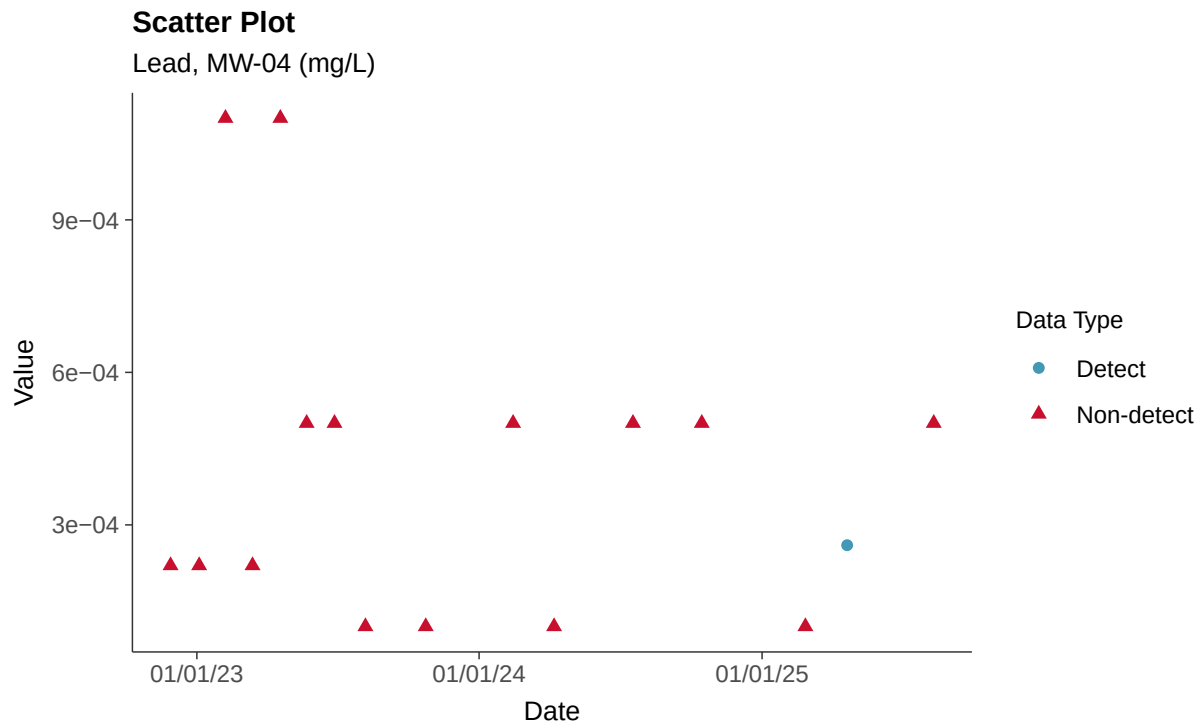
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-04 (mg/L)



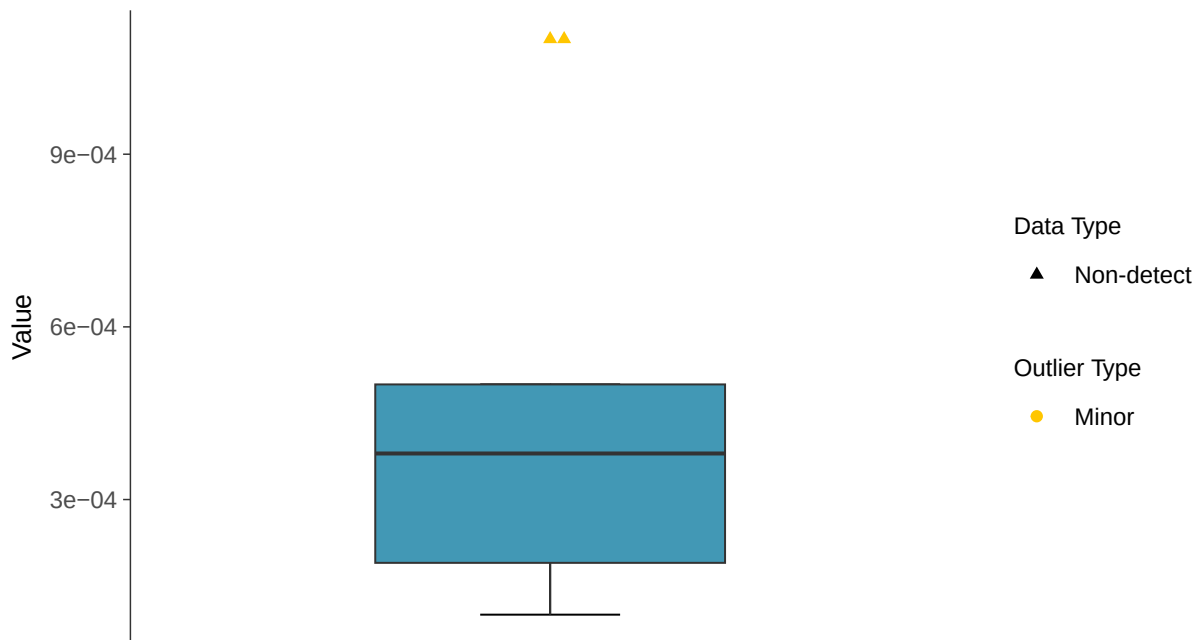
Appendix IV: Lead, MW-04

ID: 14_2_4_115



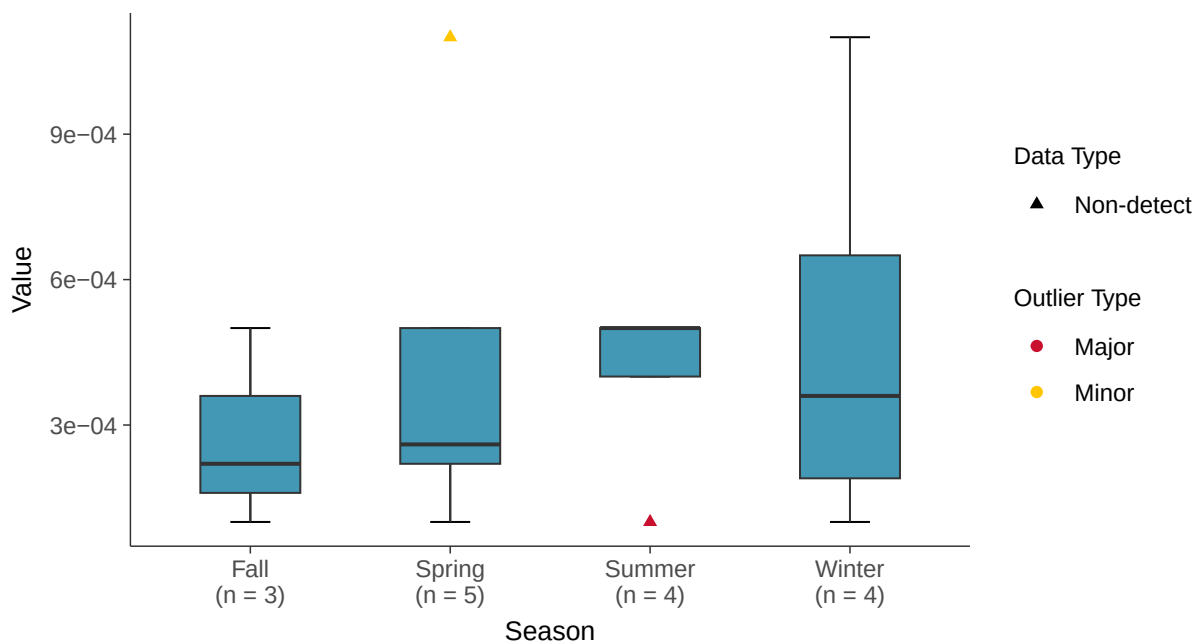
Boxplot

Lead, MW-04 (mg/L)



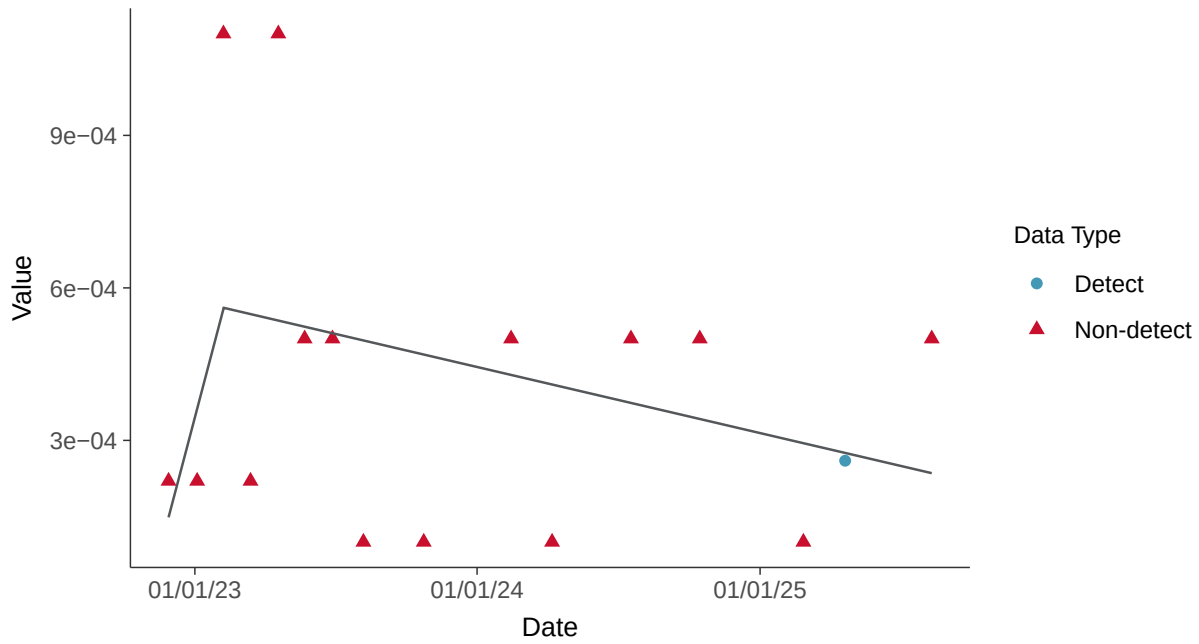
Boxplot by Season

Lead, MW-04 (mg/L)



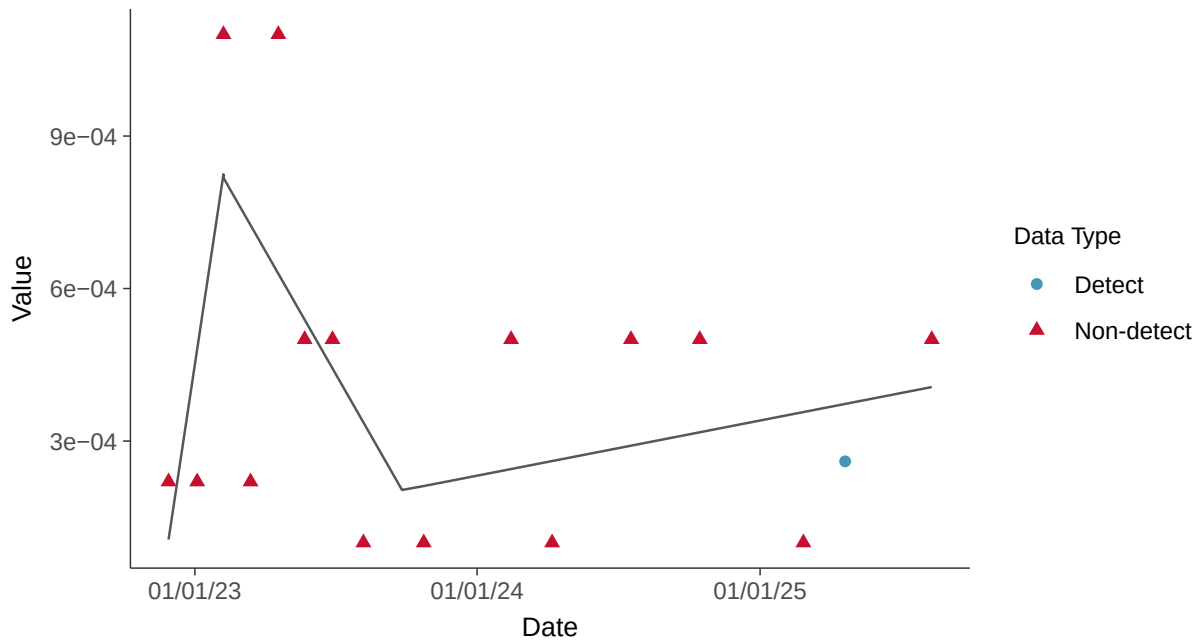
Trend Regression: Piecewise Linear-Linear

Lead, MW-04 (mg/L)



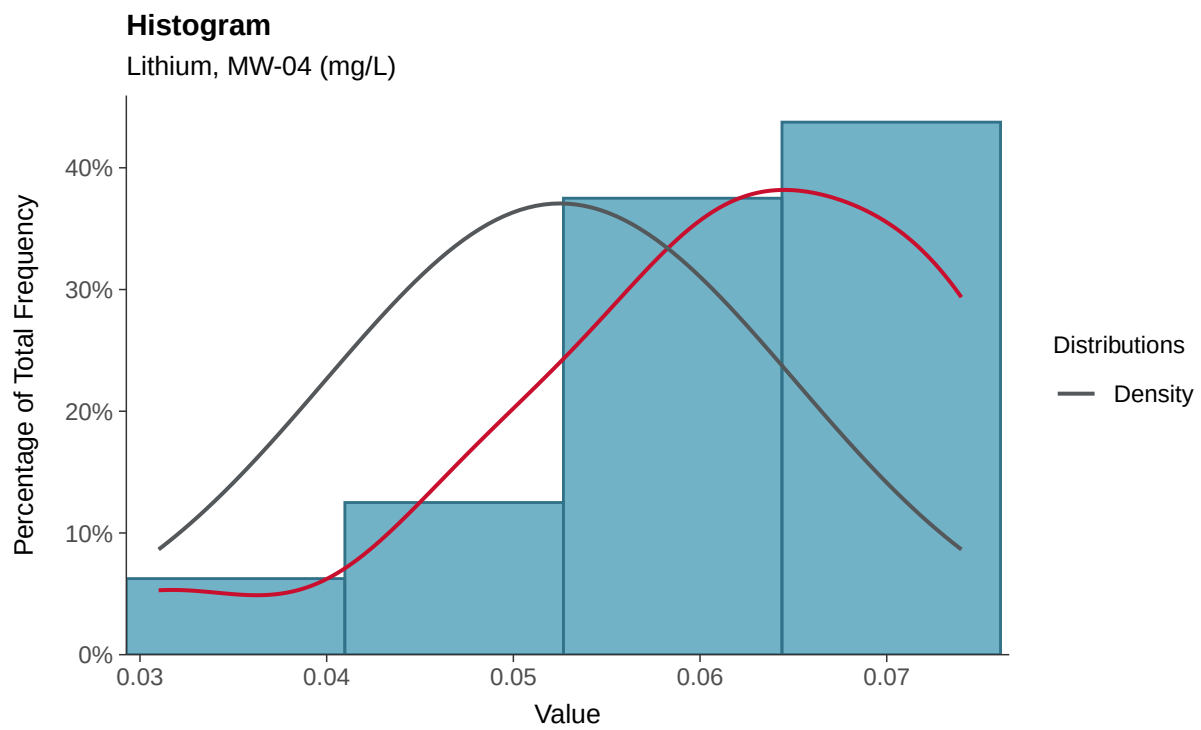
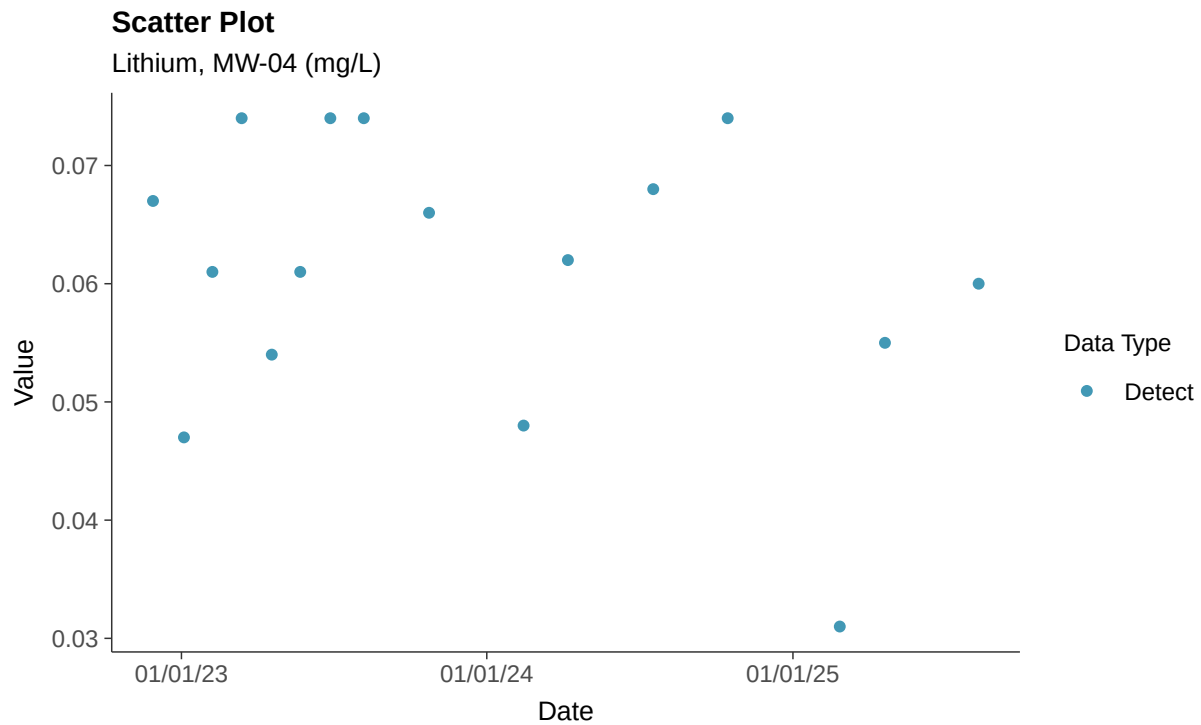
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-04 (mg/L)



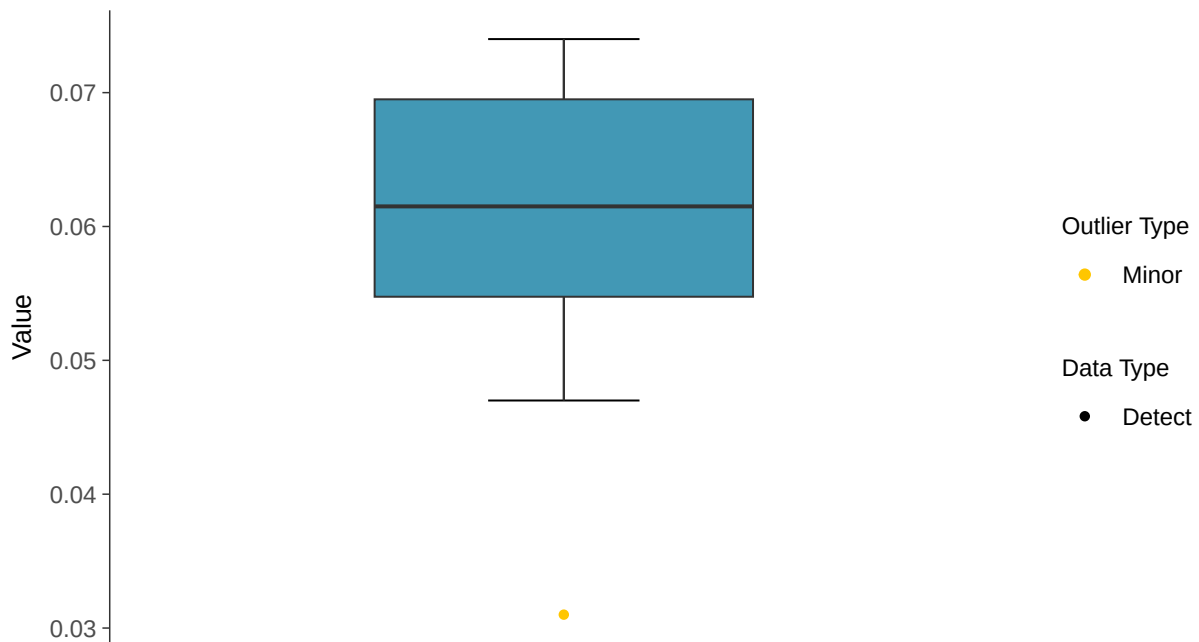
Appendix IV: Lithium, MW-04

ID: 14_2_4_116



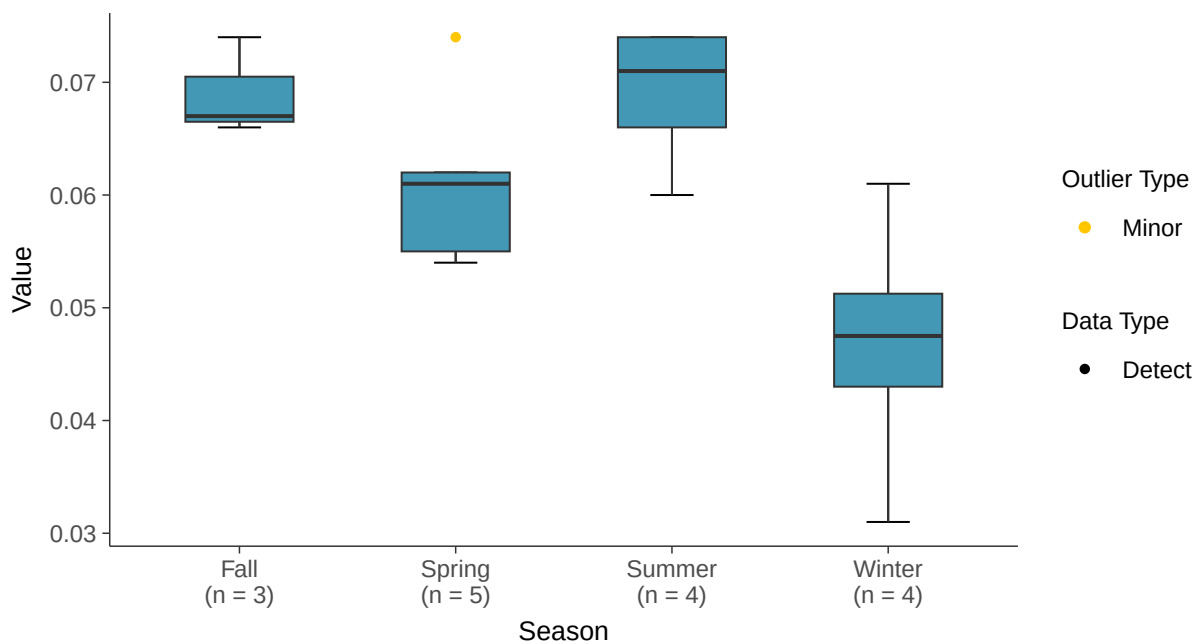
Boxplot

Lithium, MW-04 (mg/L)



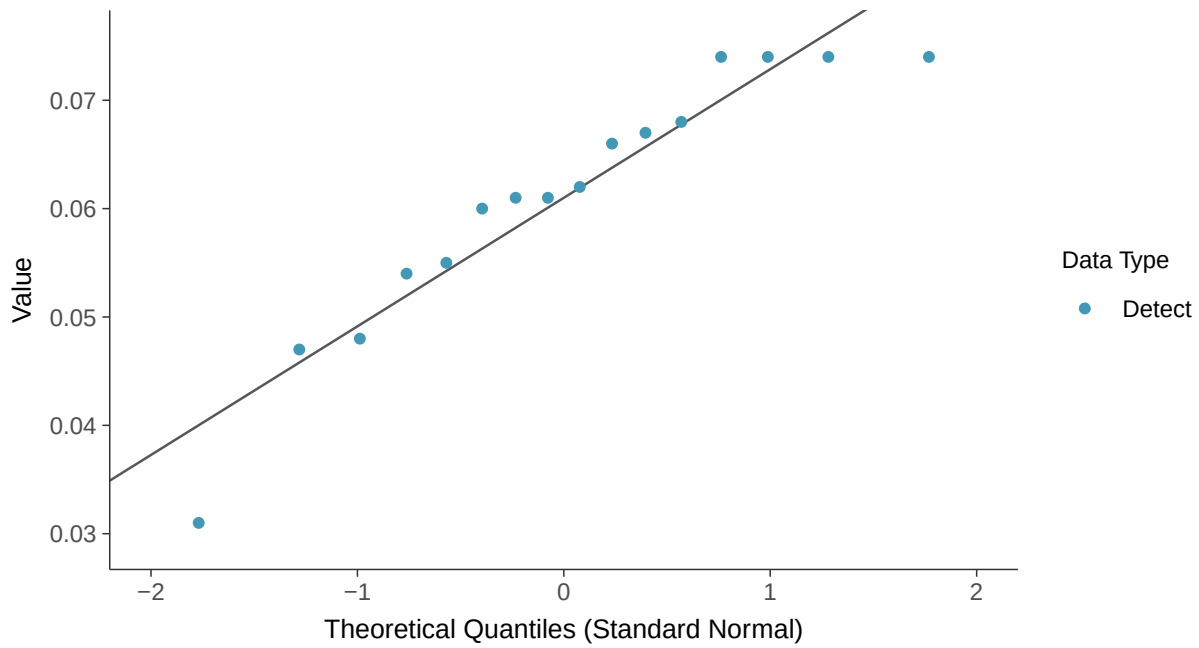
Boxplot by Season

Lithium, MW-04 (mg/L)



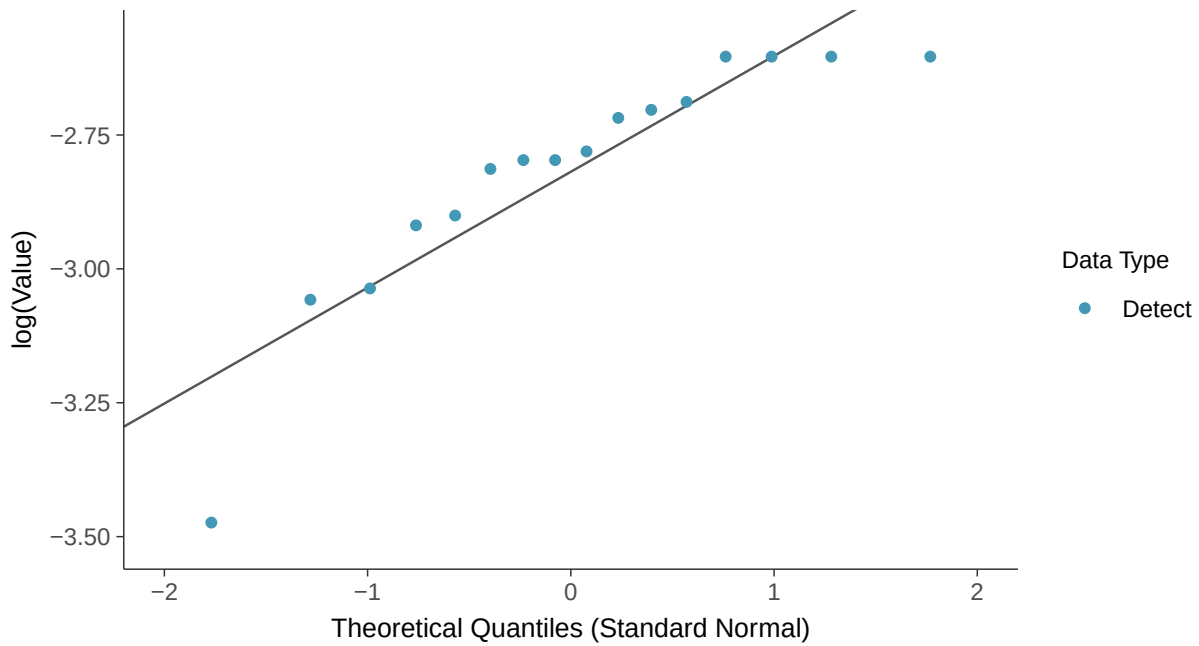
Normal Q-Q plot

Lithium, MW-04 (mg/L)



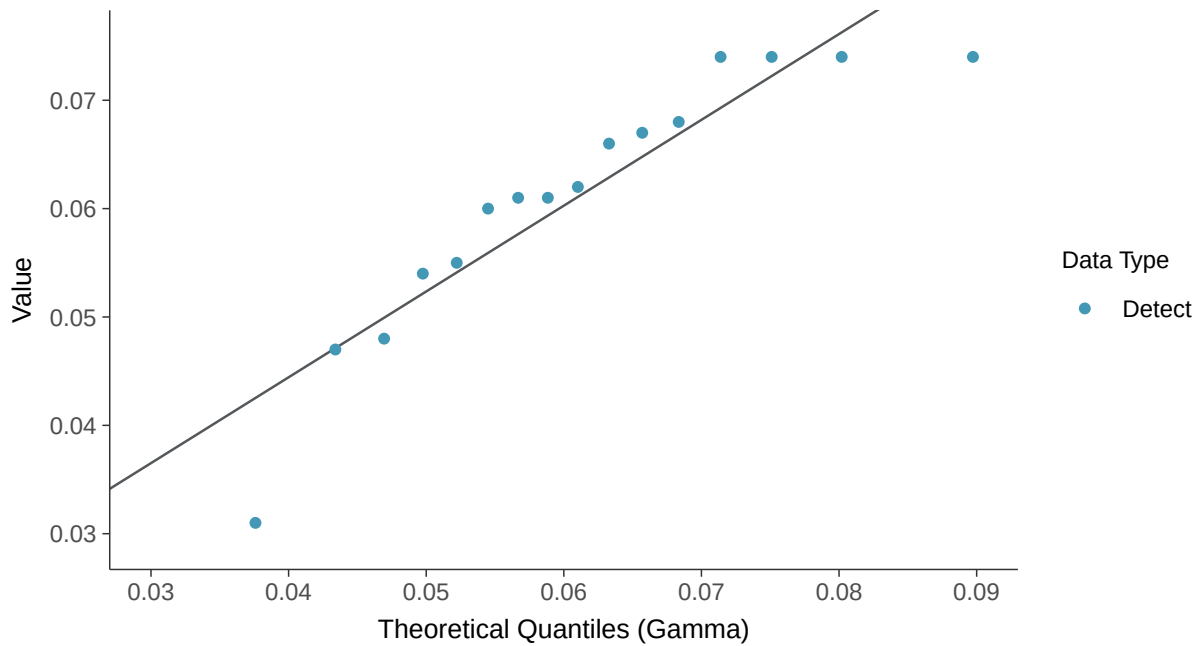
Lognormal Q-Q plot

Lithium, MW-04 (mg/L)



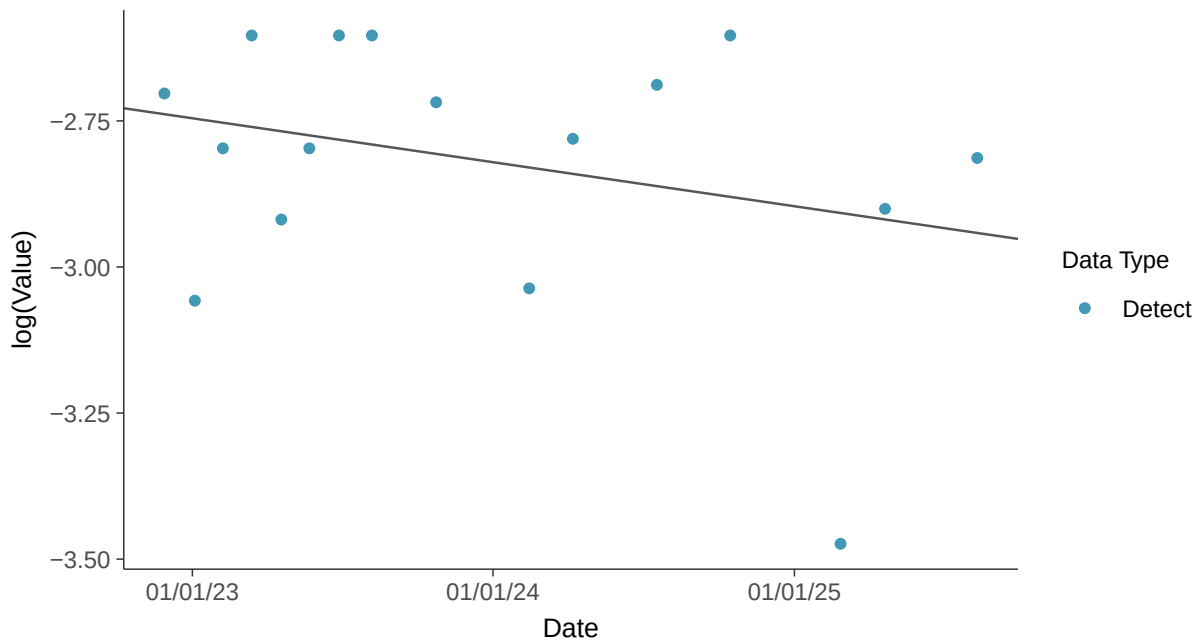
Gamma Q-Q plot

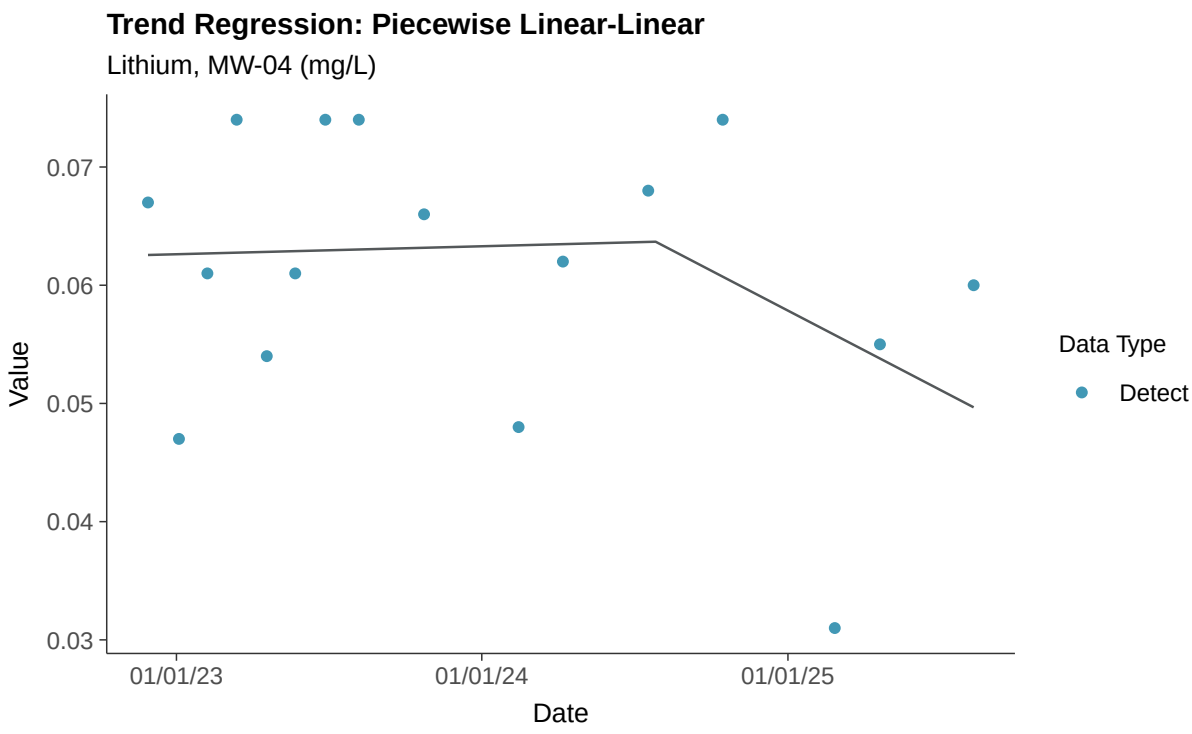
Lithium, MW-04 (mg/L)

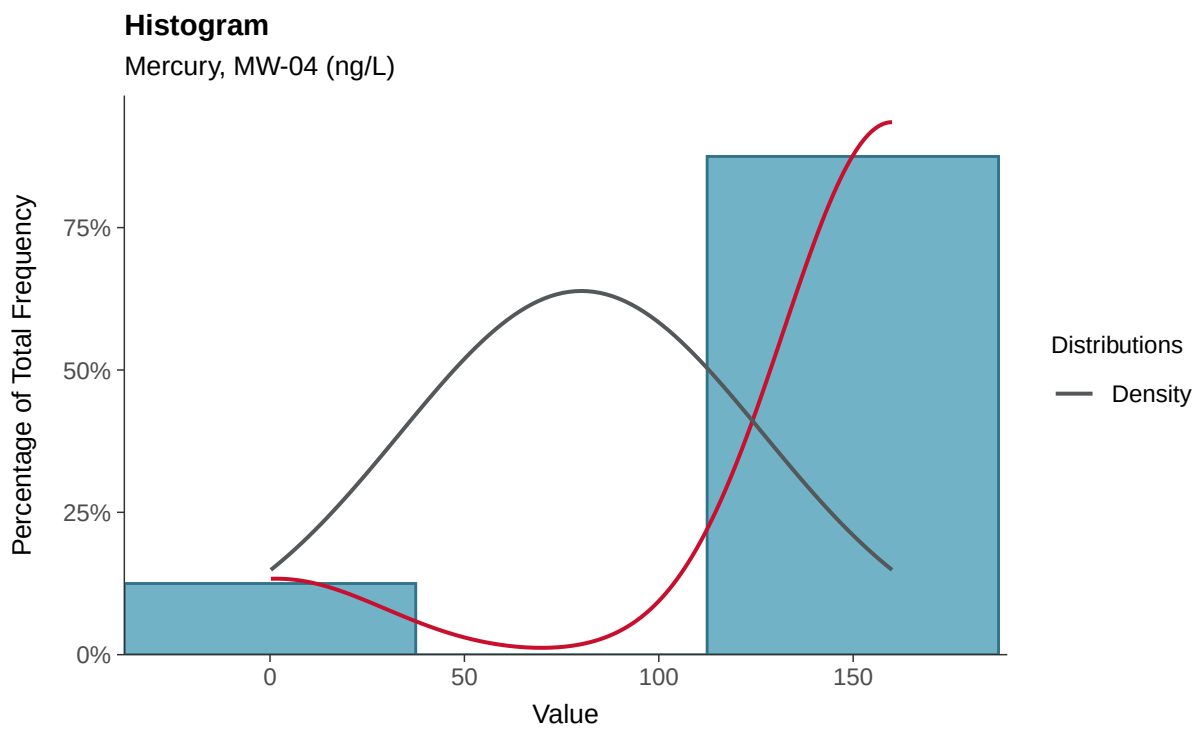


Trend Regression: Lognormal MLE

Lithium, MW-04 (mg/L)

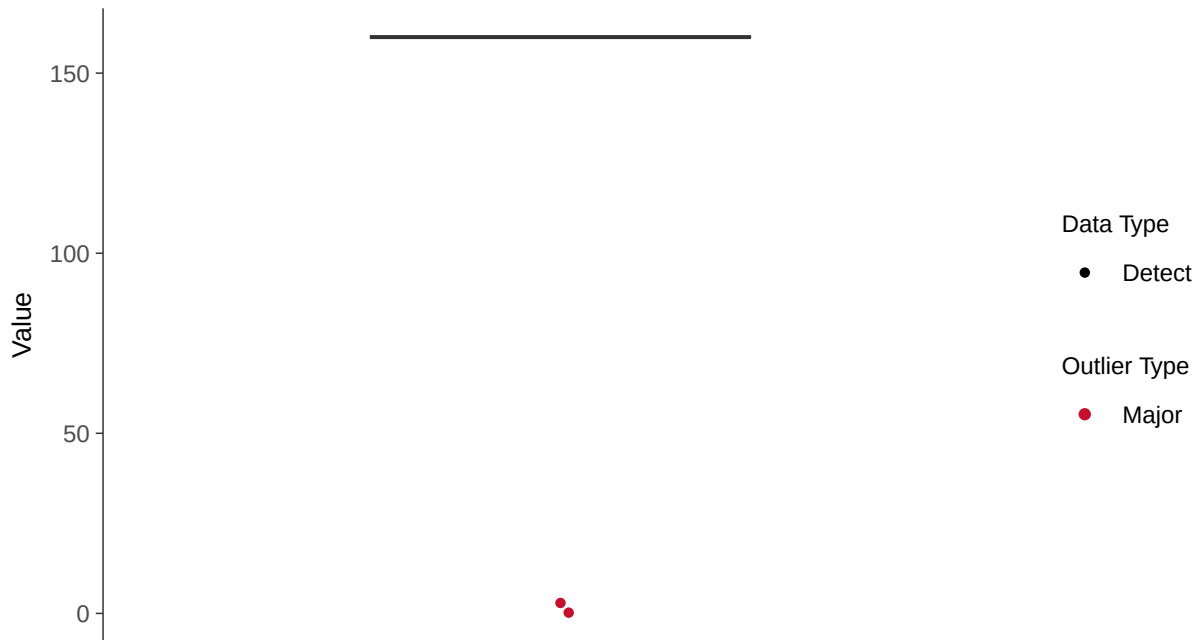






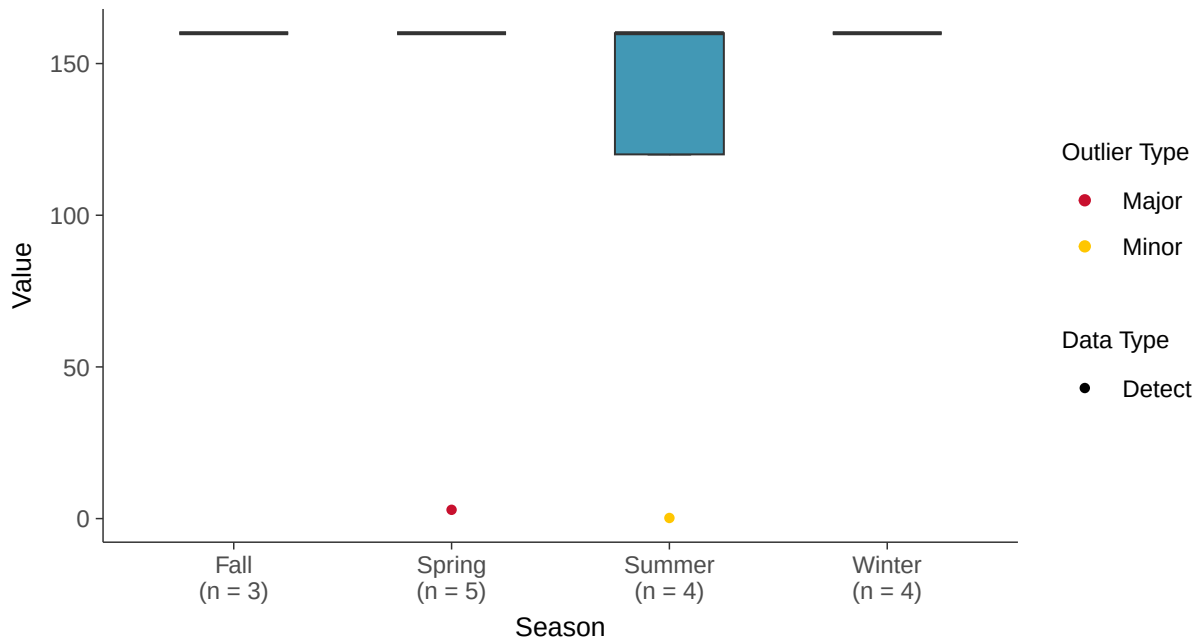
Boxplot

Mercury, MW-04 (ng/L)

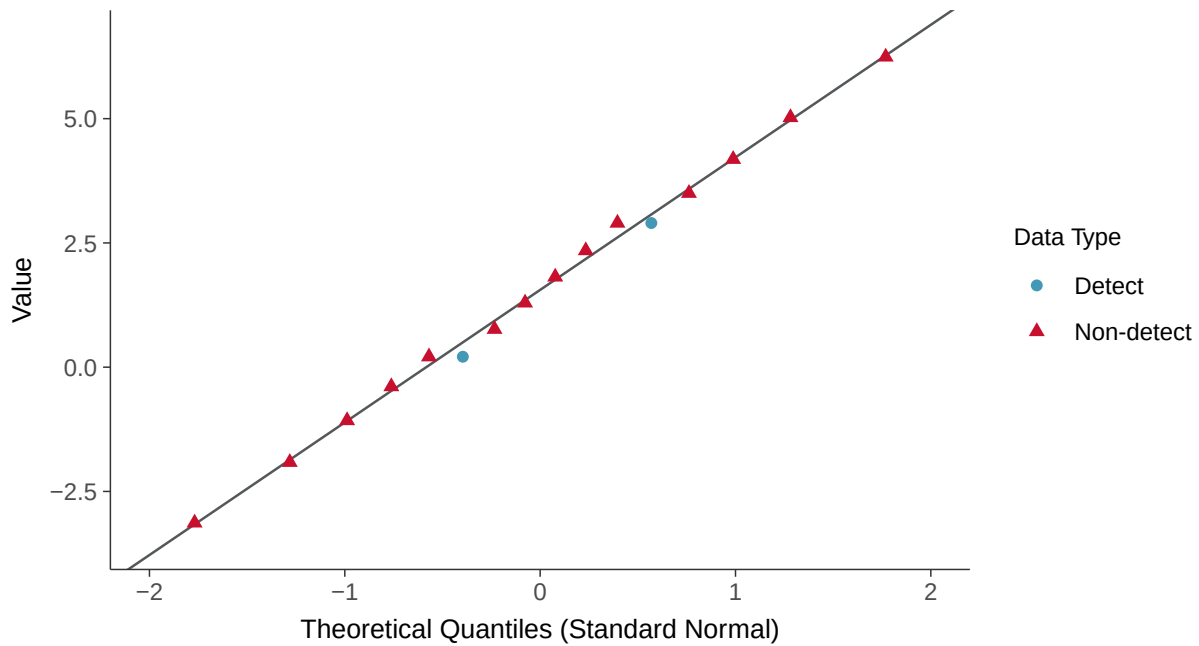


Boxplot by Season

Mercury, MW-04 (ng/L)

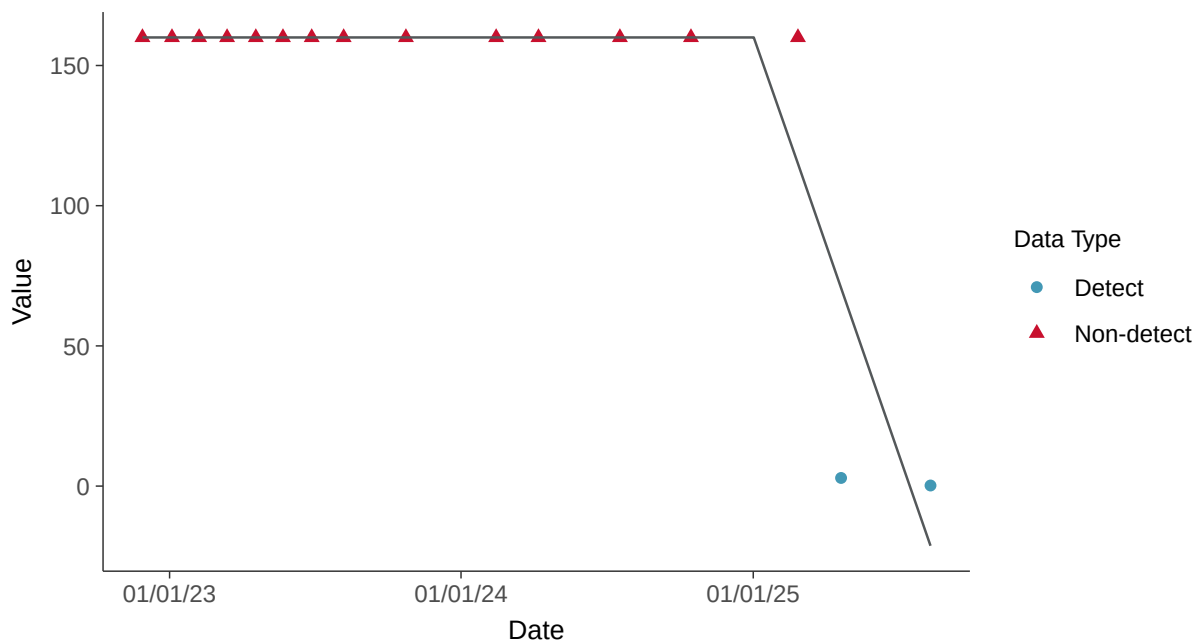


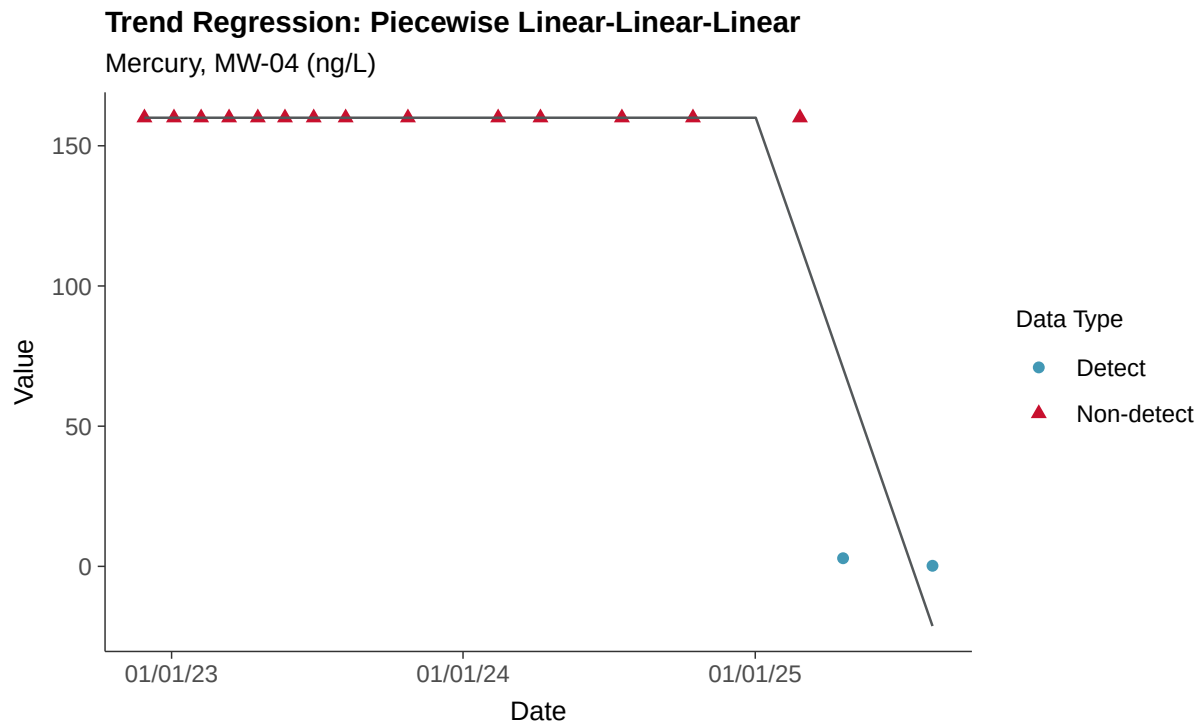
Mercury, MW-04 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-04 (ng/L)



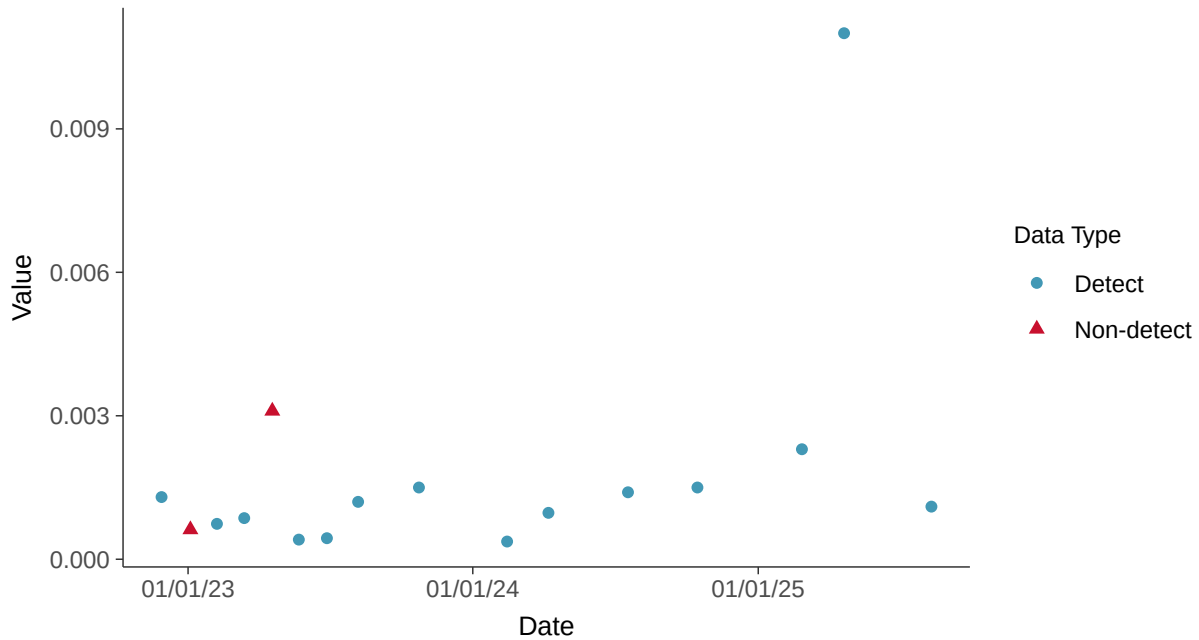


Appendix IV: Molybdenum, MW-04

ID: 14_2_4_118

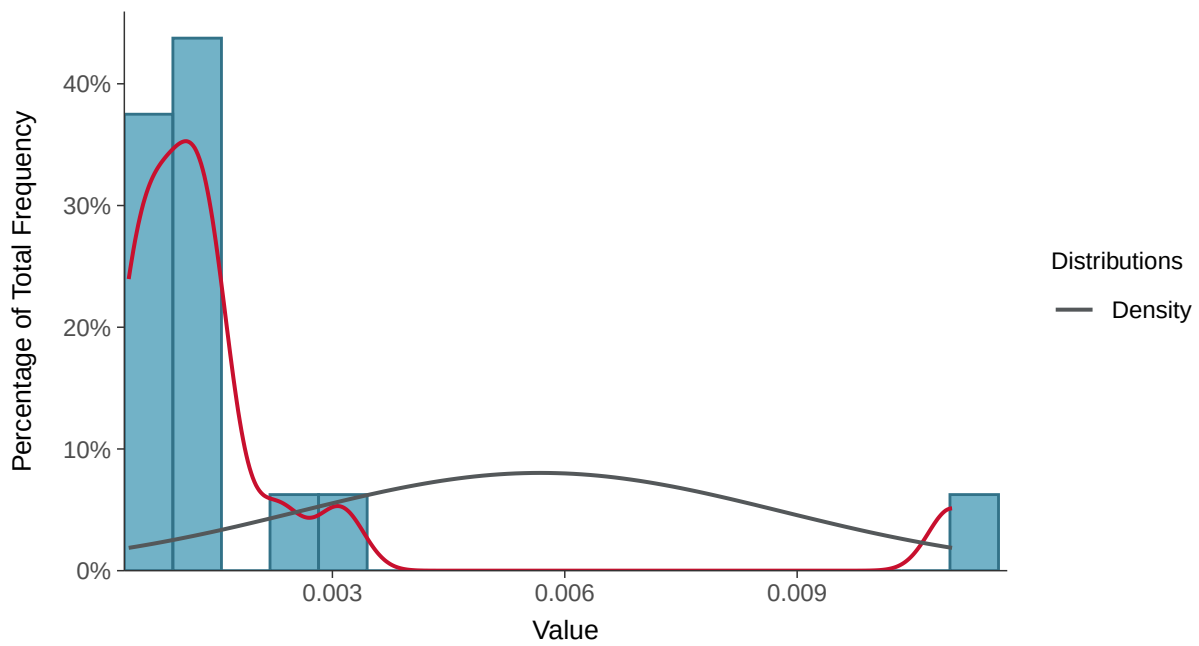
Scatter Plot

Molybdenum, MW-04 (mg/L)



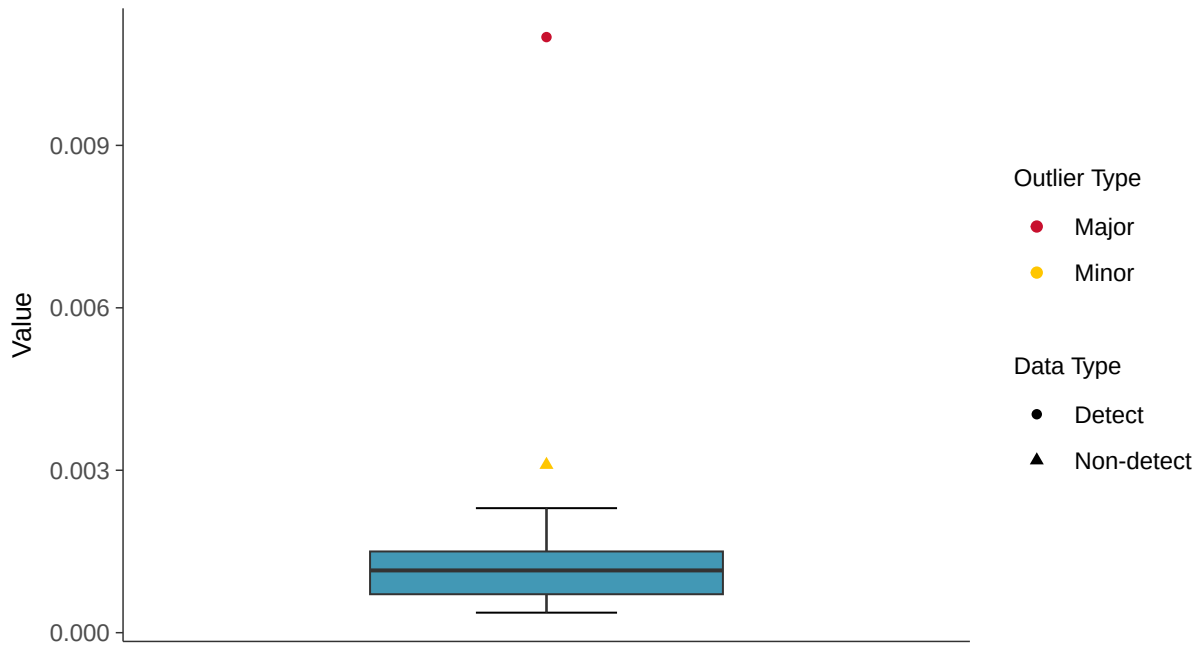
Histogram

Molybdenum, MW-04 (mg/L)



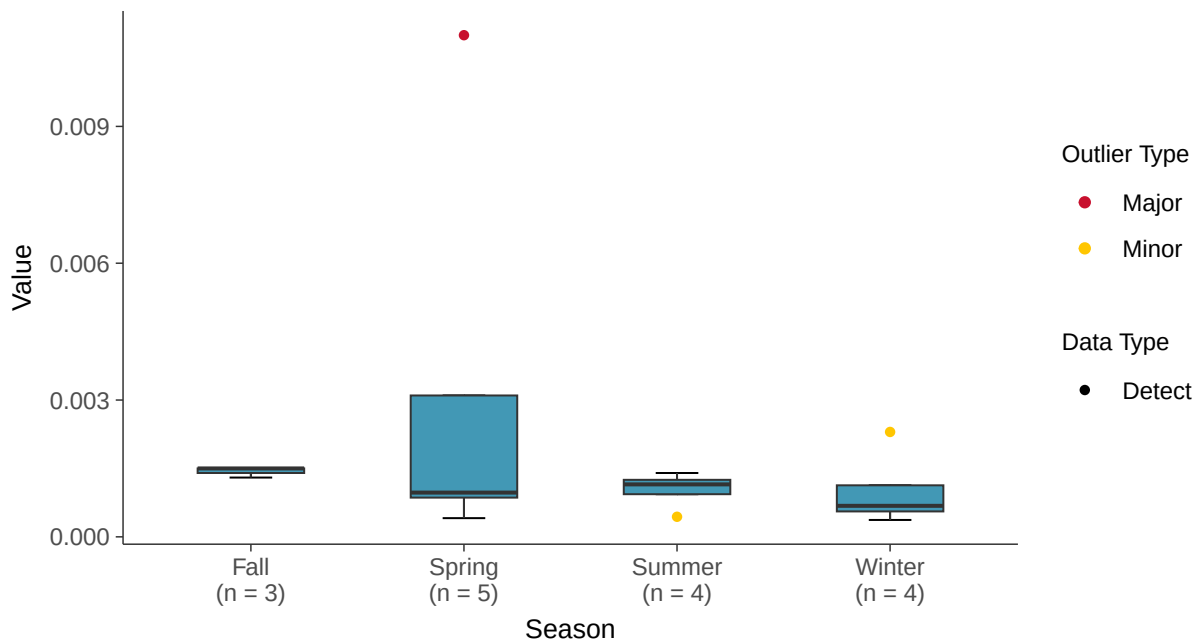
Boxplot

Molybdenum, MW-04 (mg/L)

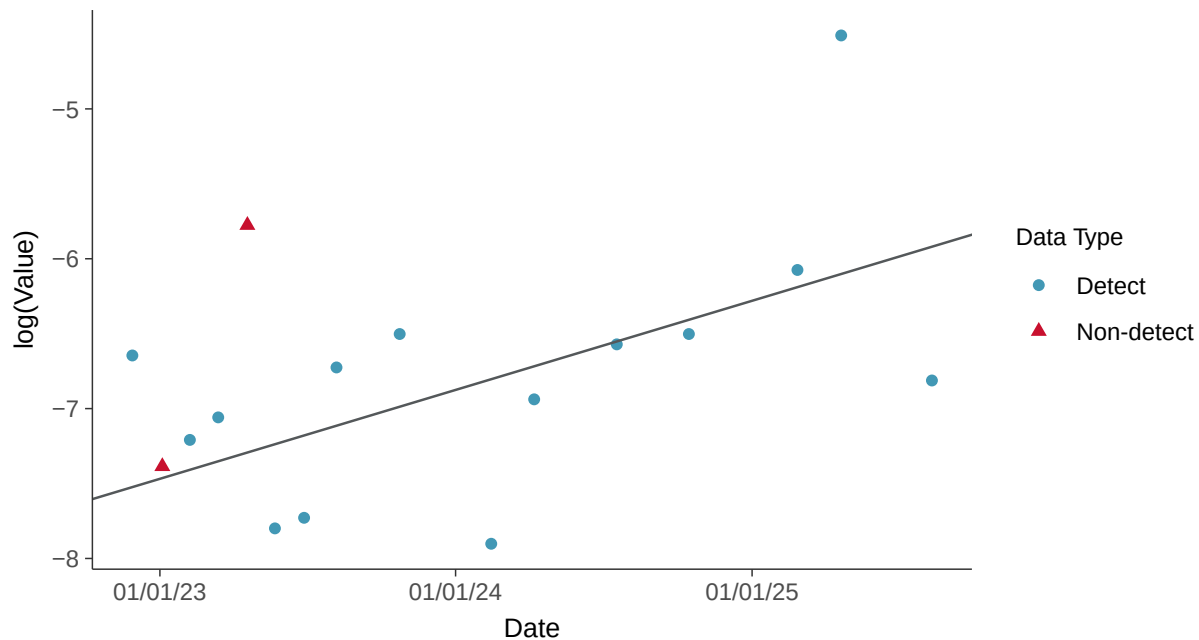
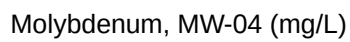


Boxplot by Season

Molybdenum, MW-04 (mg/L)



Molybdenum, MW-04 (mg/L)

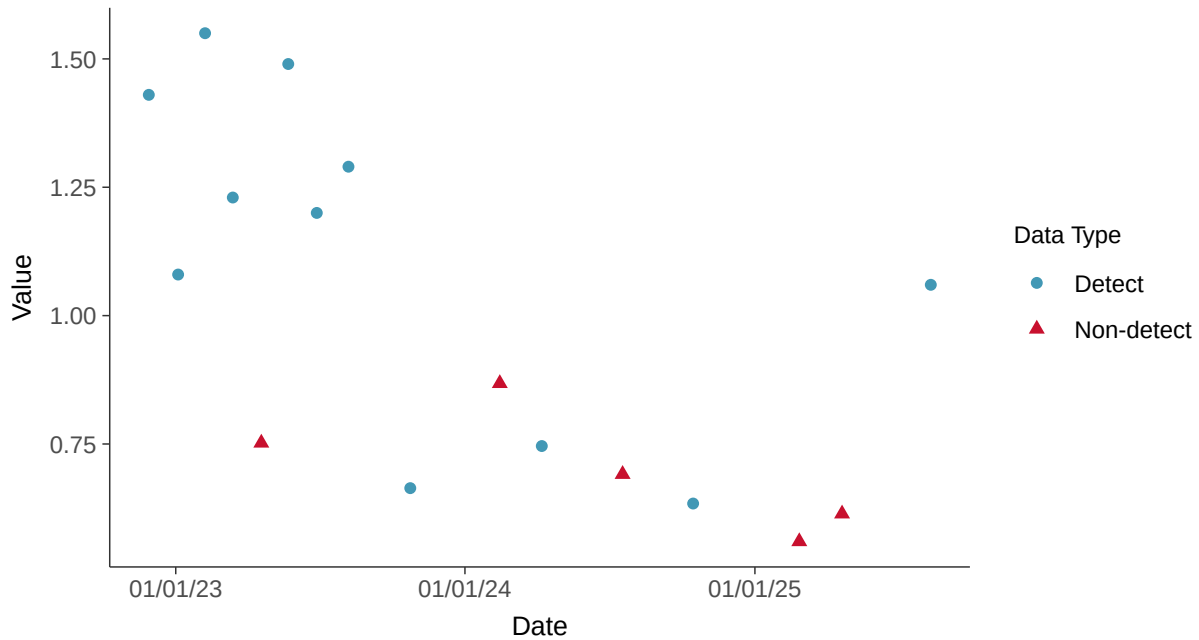


Appendix IV: Radium 226 and 228, MW-04

ID: 14_2_4_121

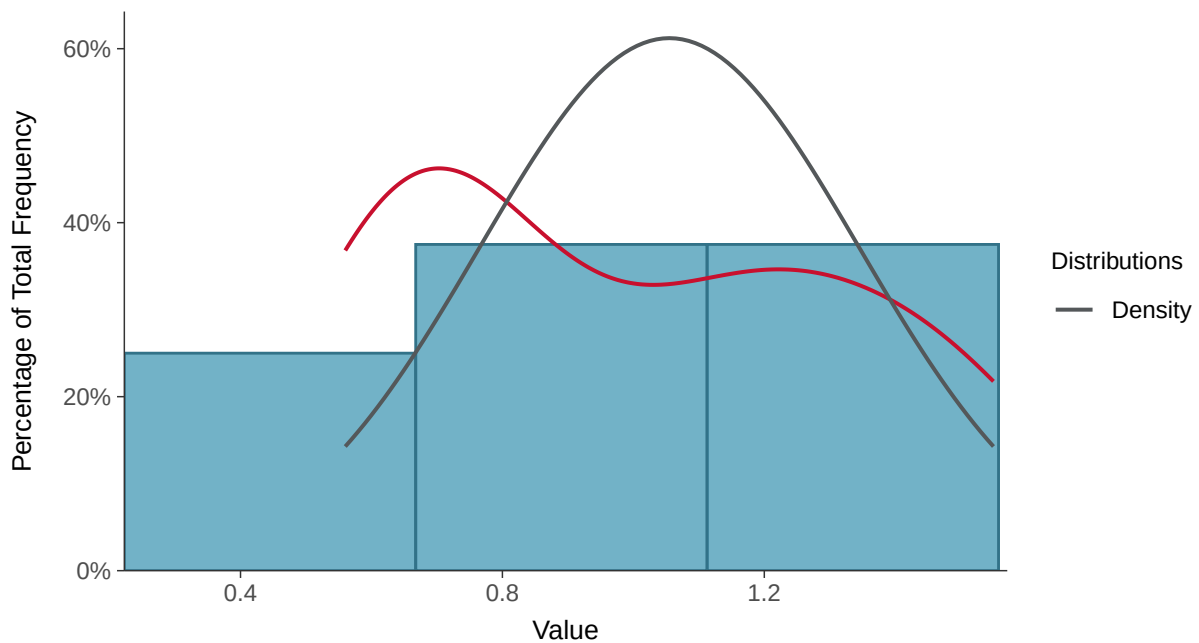
Scatter Plot

Radium 226 and 228, MW-04 (pCi/L)



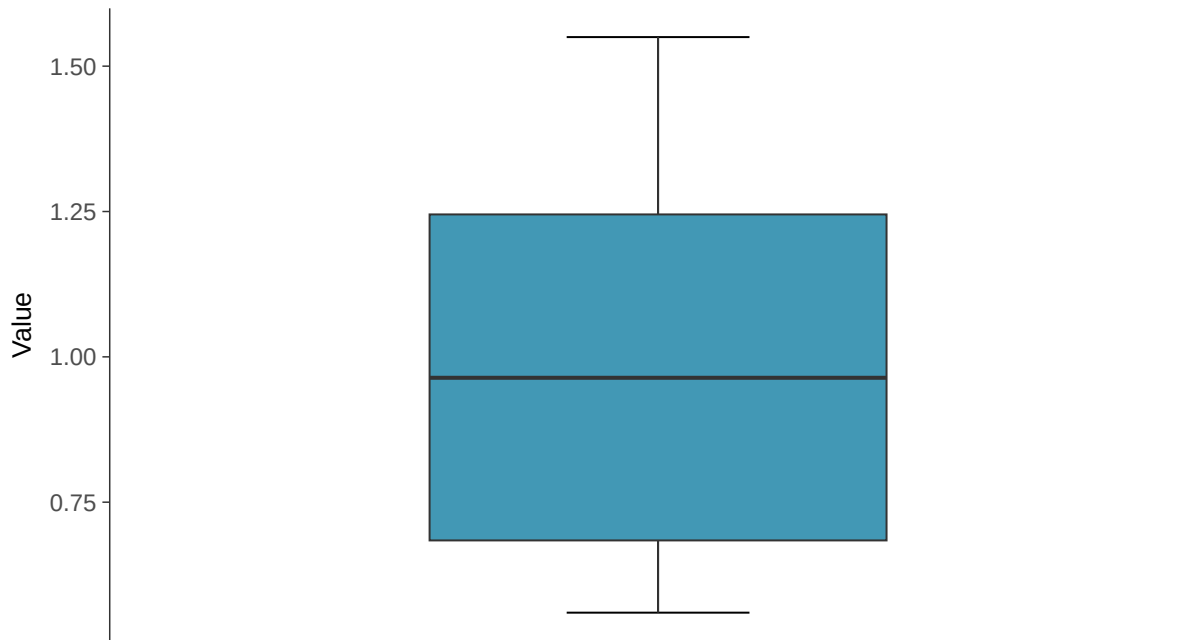
Histogram

Radium 226 and 228, MW-04 (pCi/L)



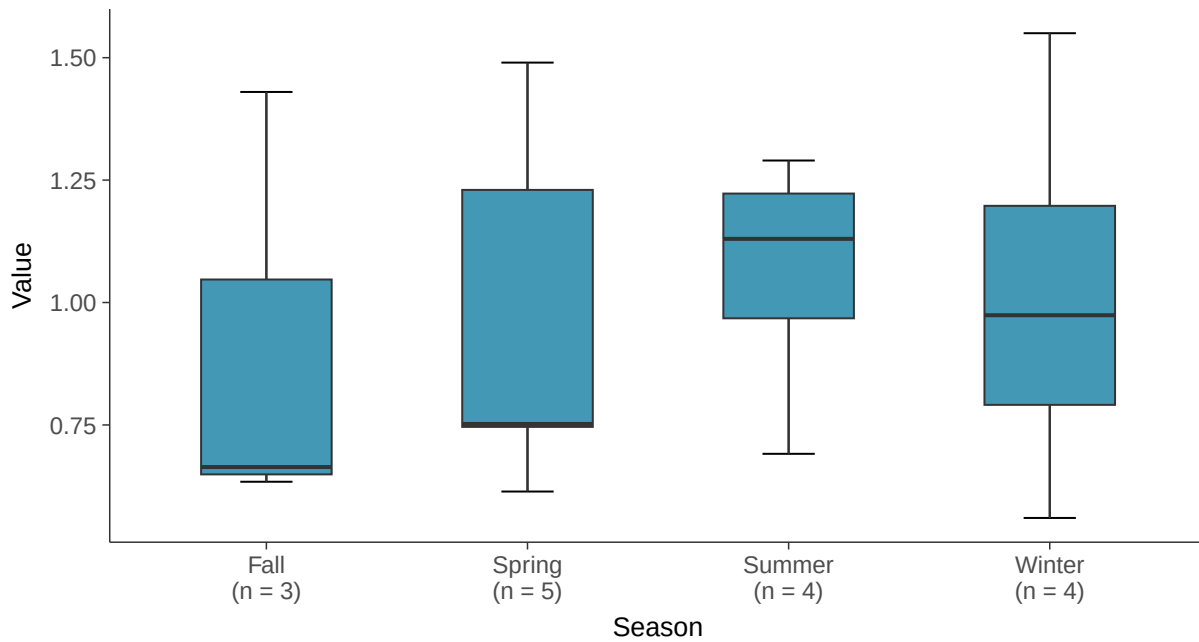
Boxplot

Radium 226 and 228, MW-04 (pCi/L)



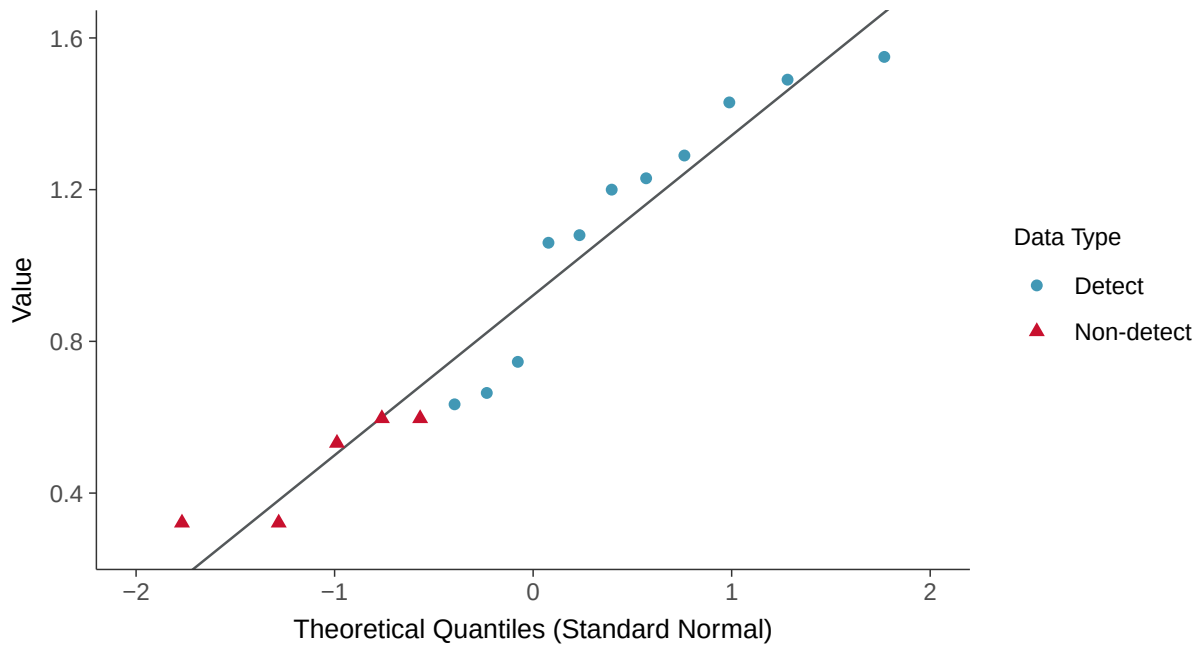
Boxplot by Season

Radium 226 and 228, MW-04 (pCi/L)



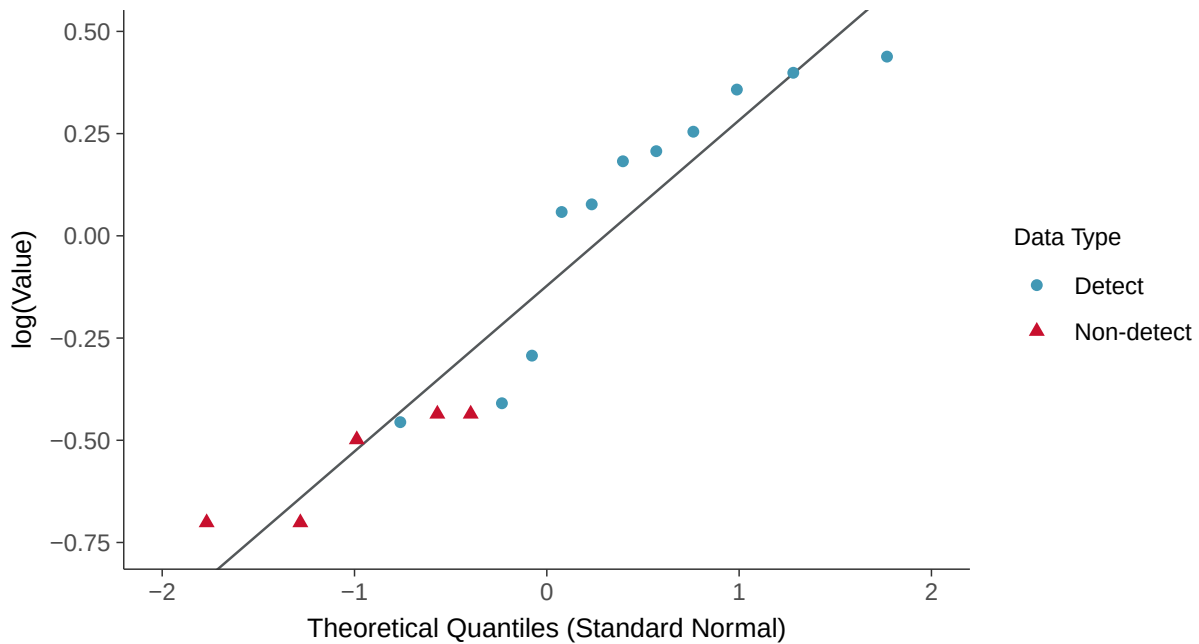
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



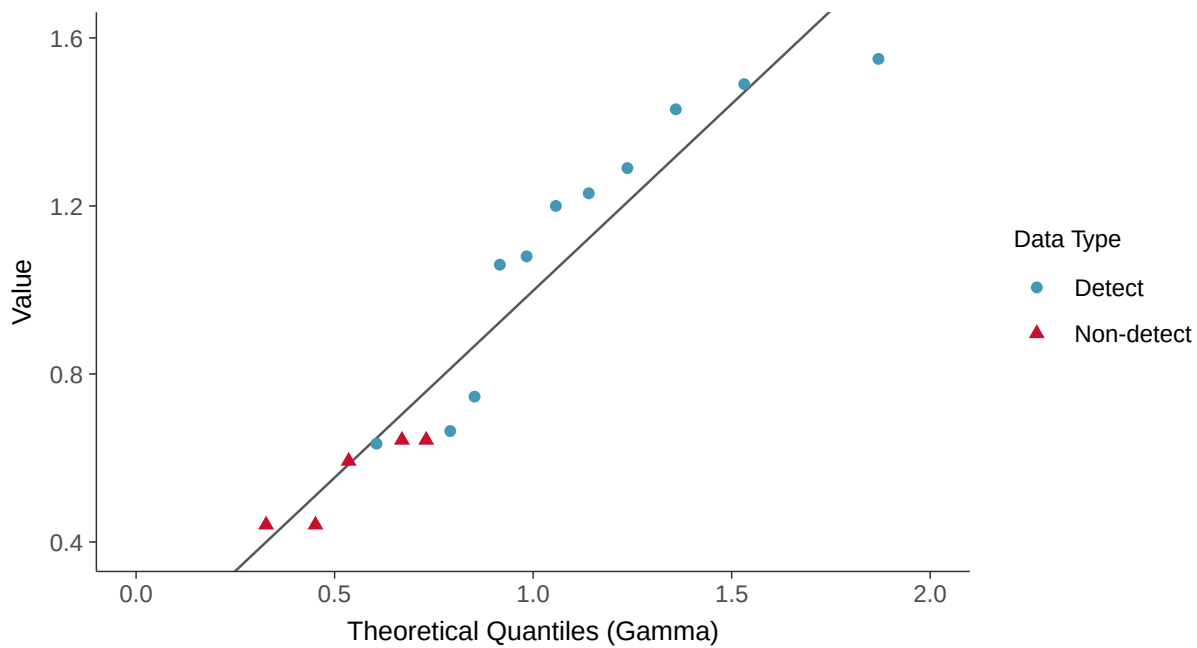
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



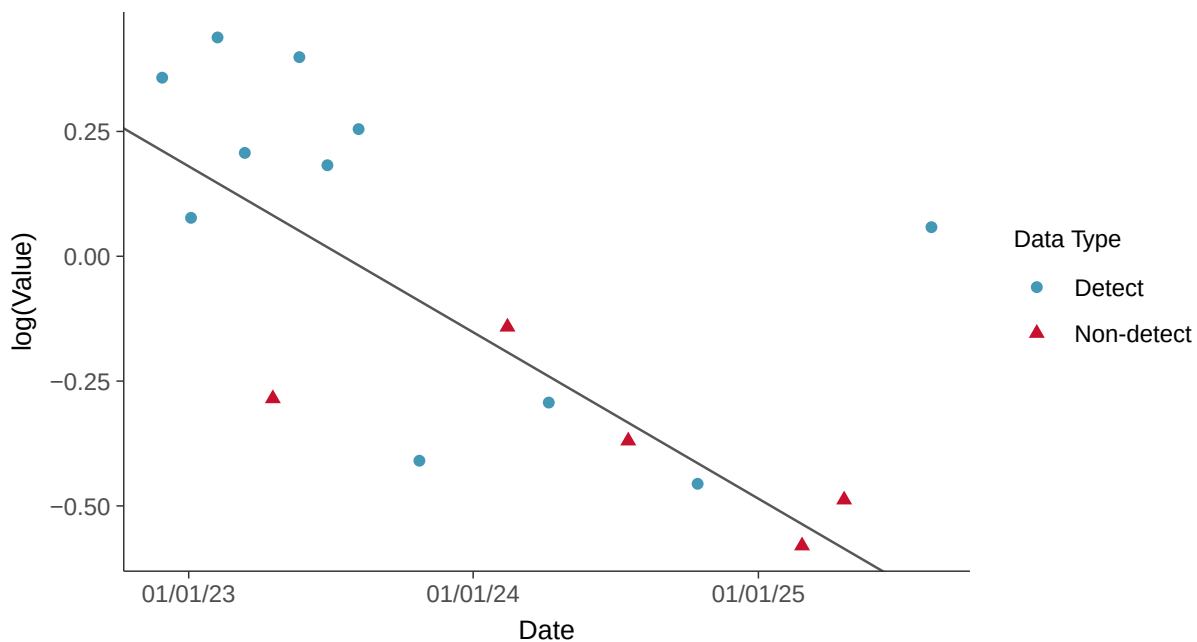
Gamma Q-Q plot using ROS Imputed Estimates

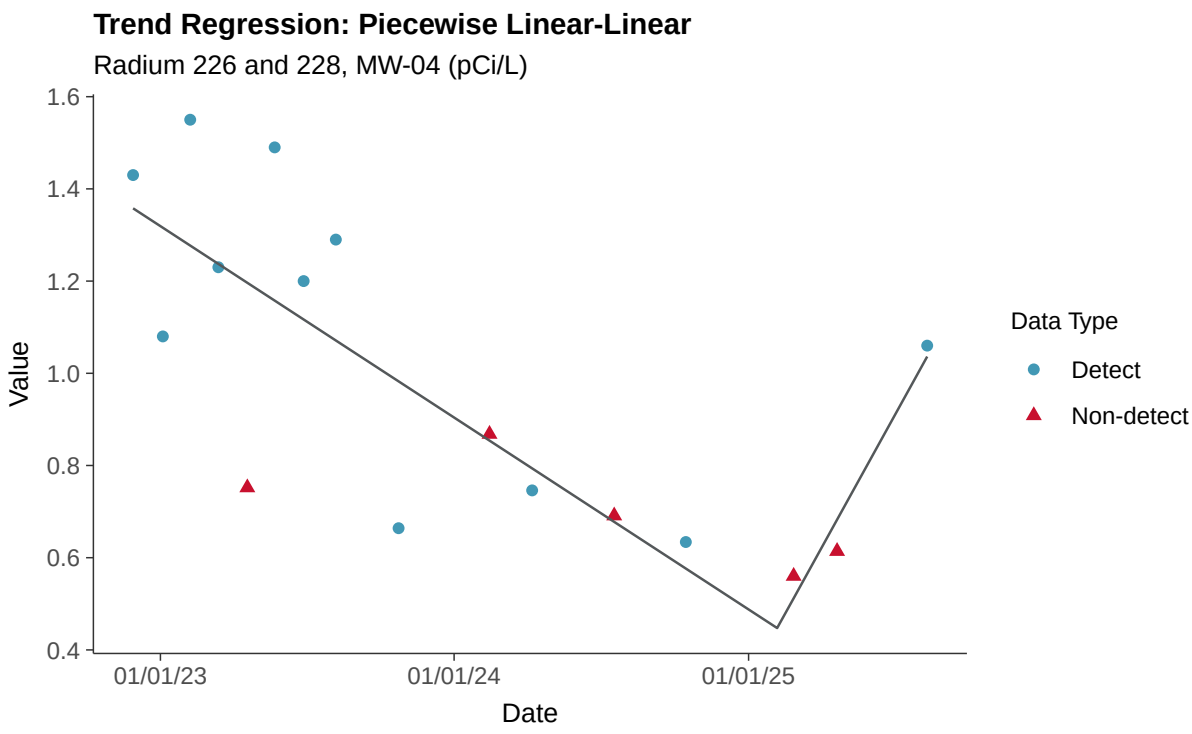
Radium 226 and 228, MW-04 (pCi/L)



Trend Regression: Lognormal MLE

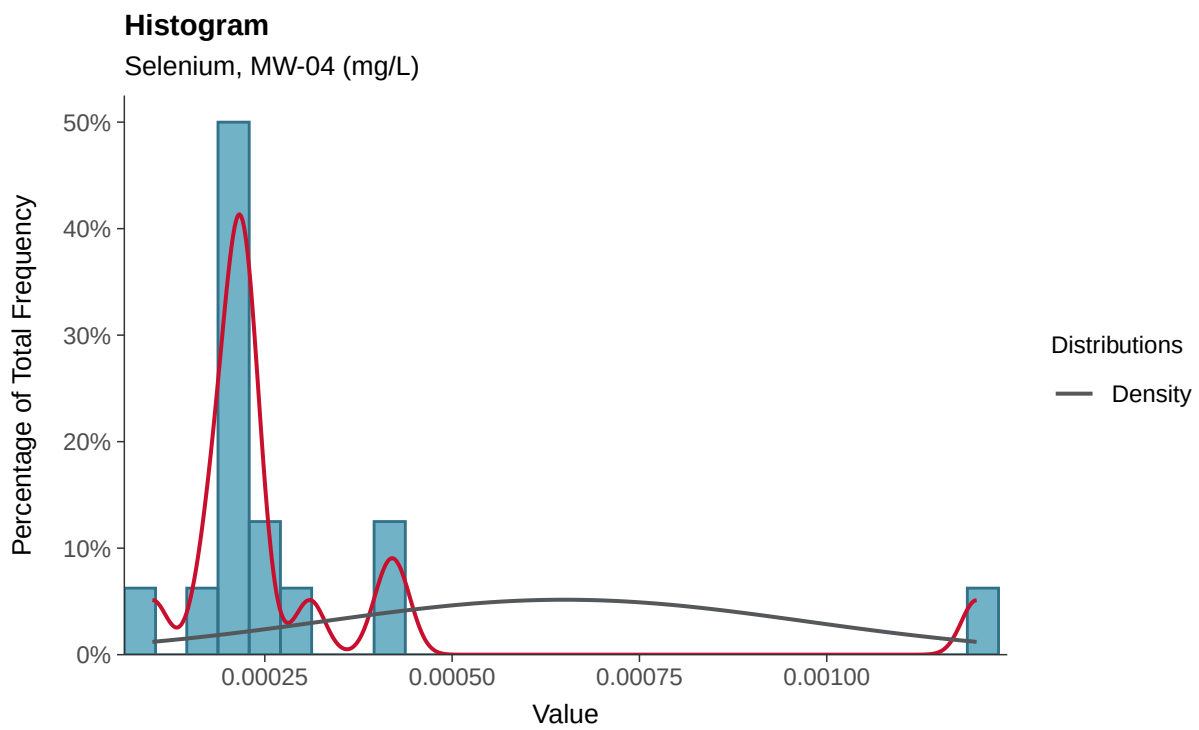
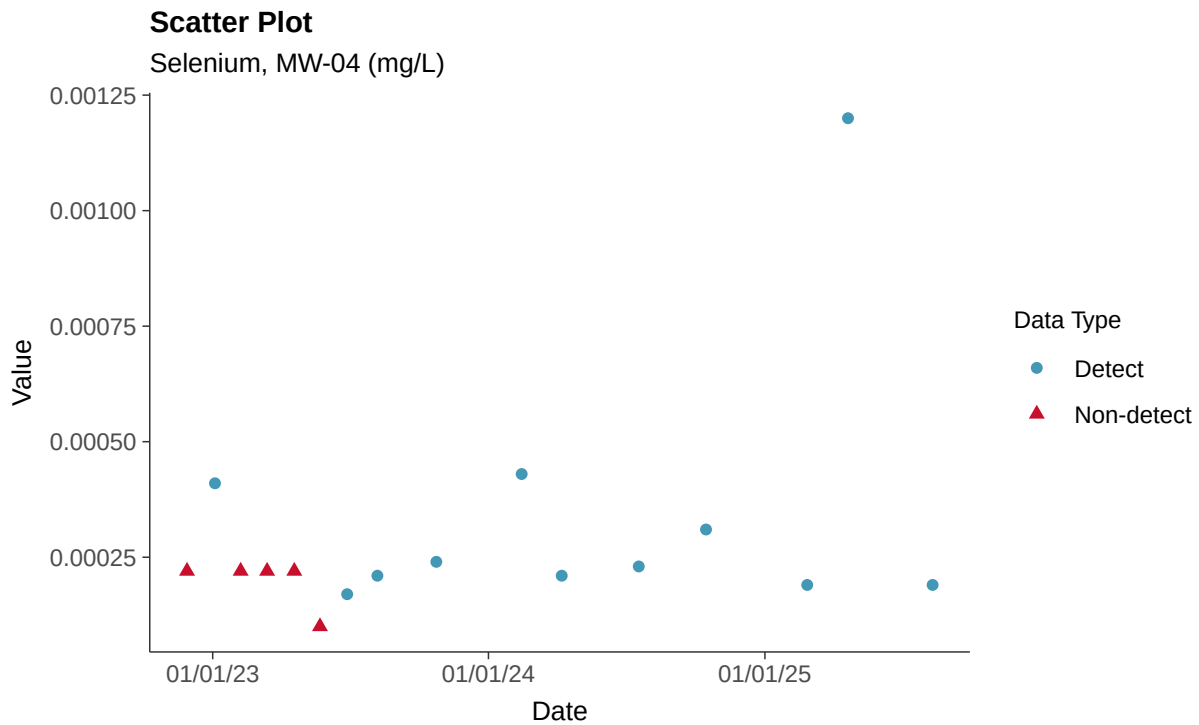
Radium 226 and 228, MW-04 (pCi/L)

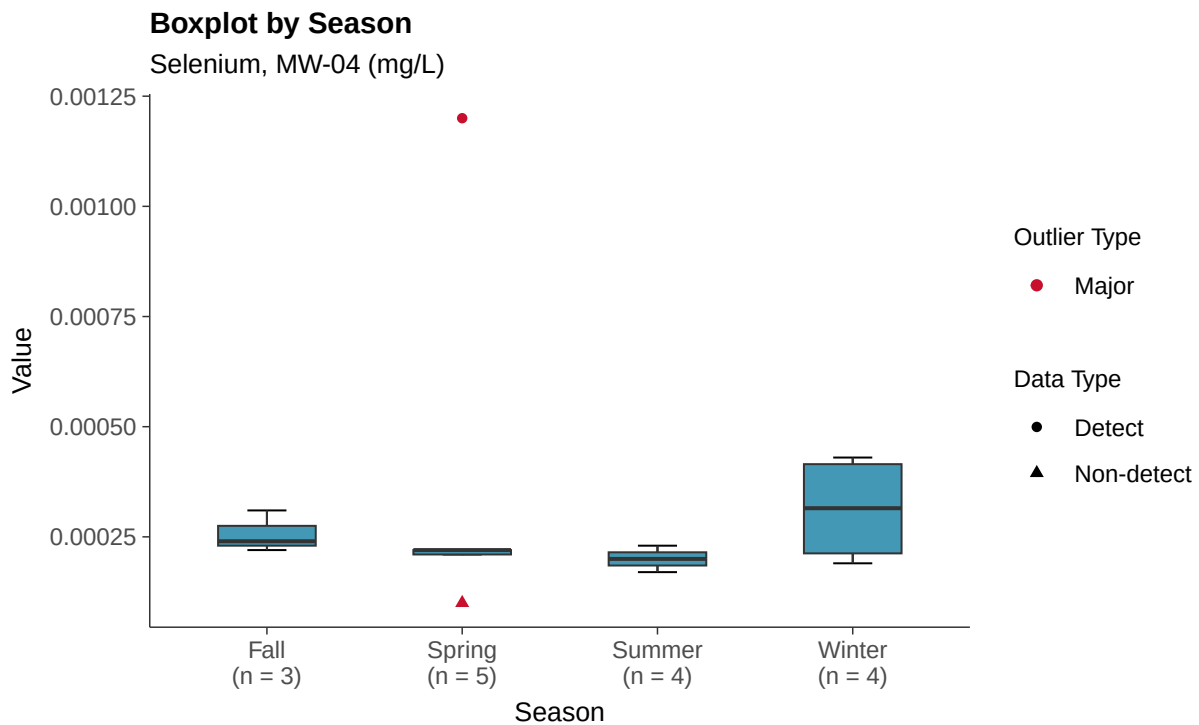
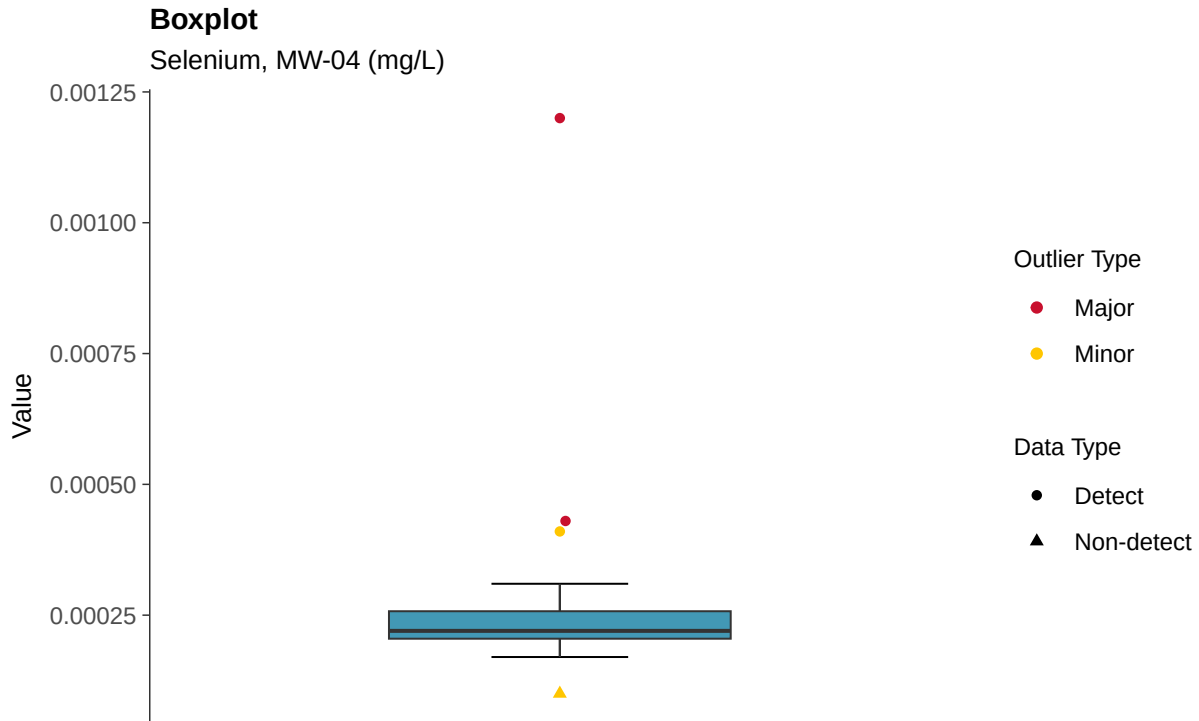




Appendix IV: Selenium, MW-04

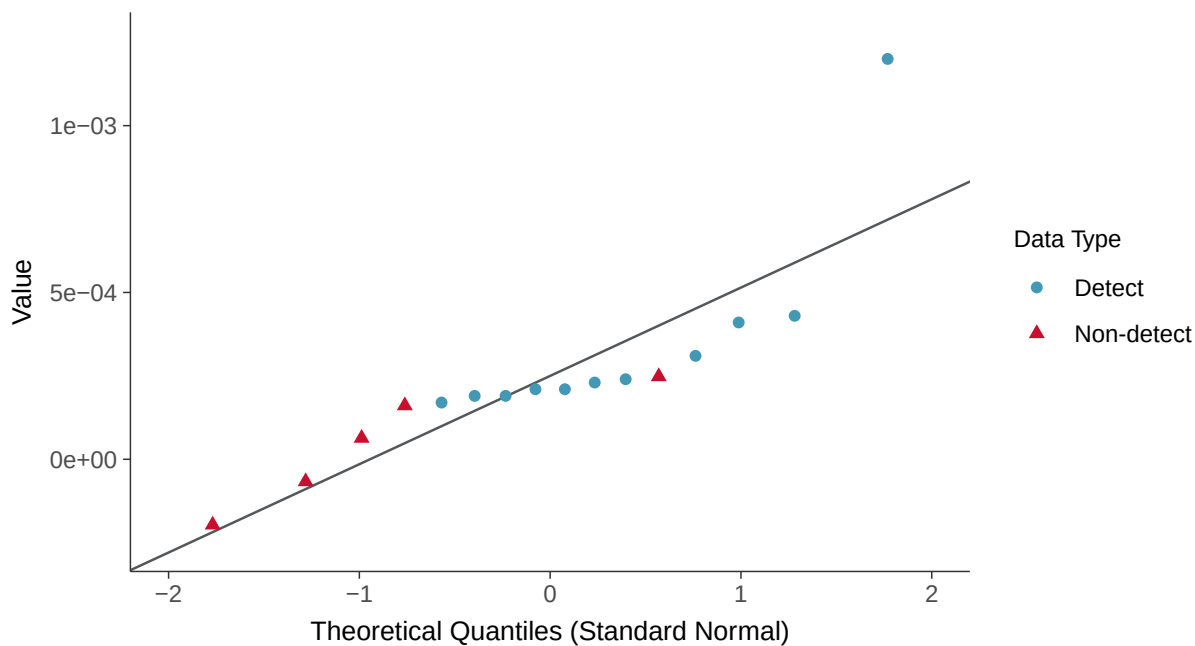
ID: 14_2_4_122





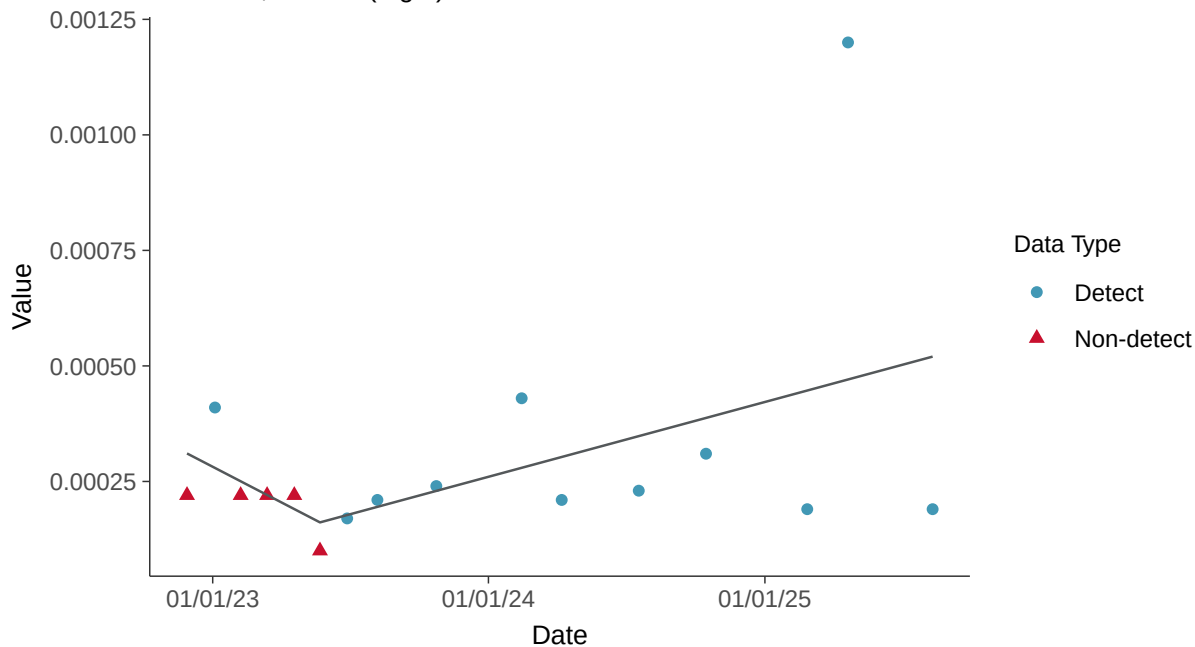
Normal Q-Q plot using ROS Imputed Estimates

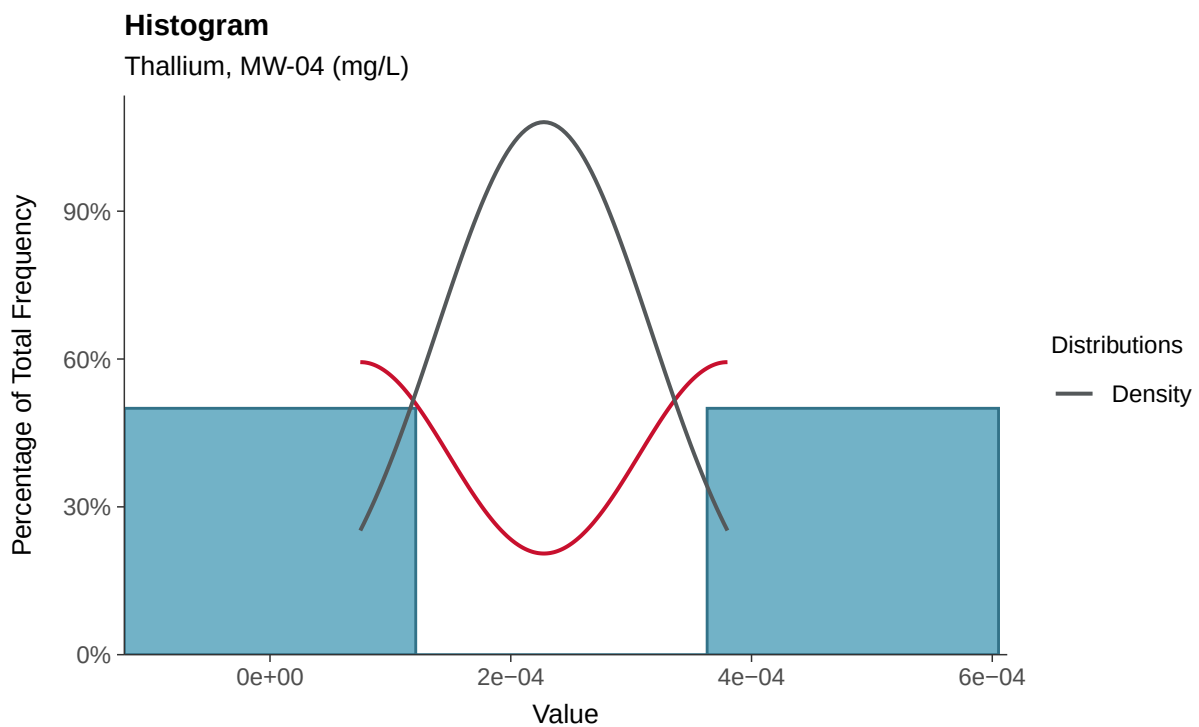
Selenium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

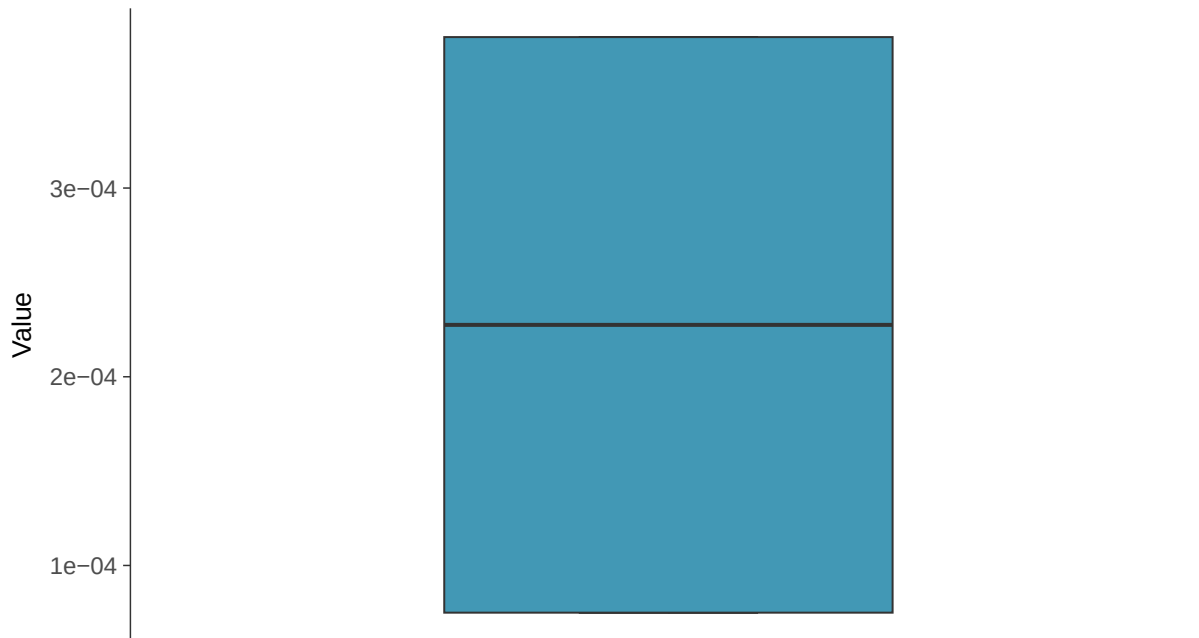
Selenium, MW-04 (mg/L)





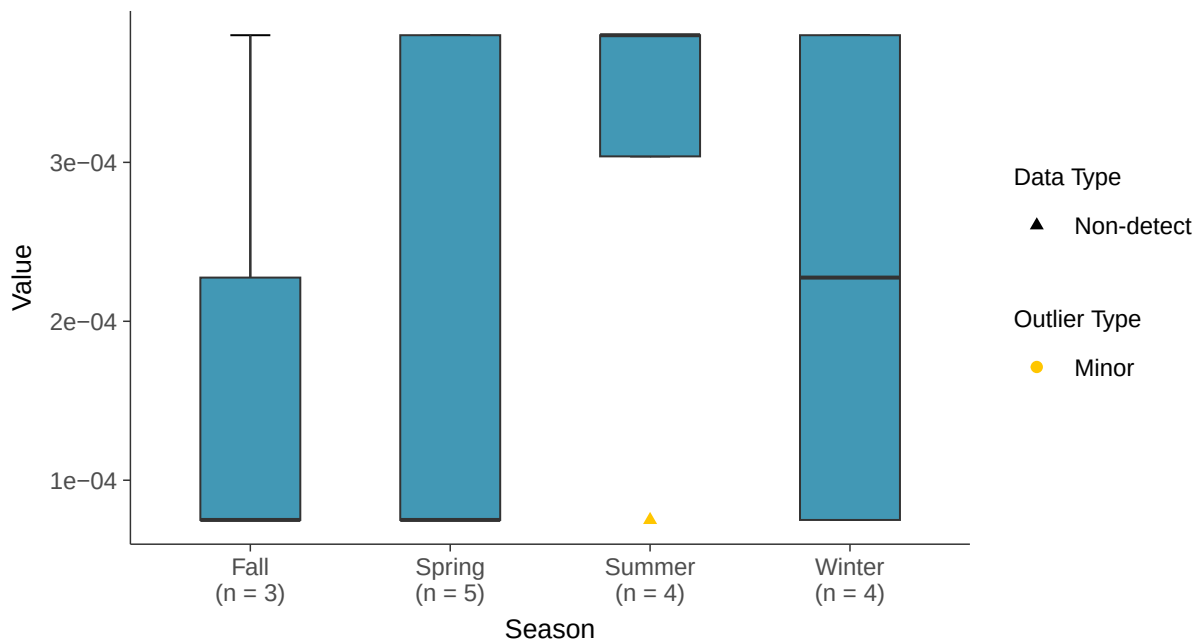
Boxplot

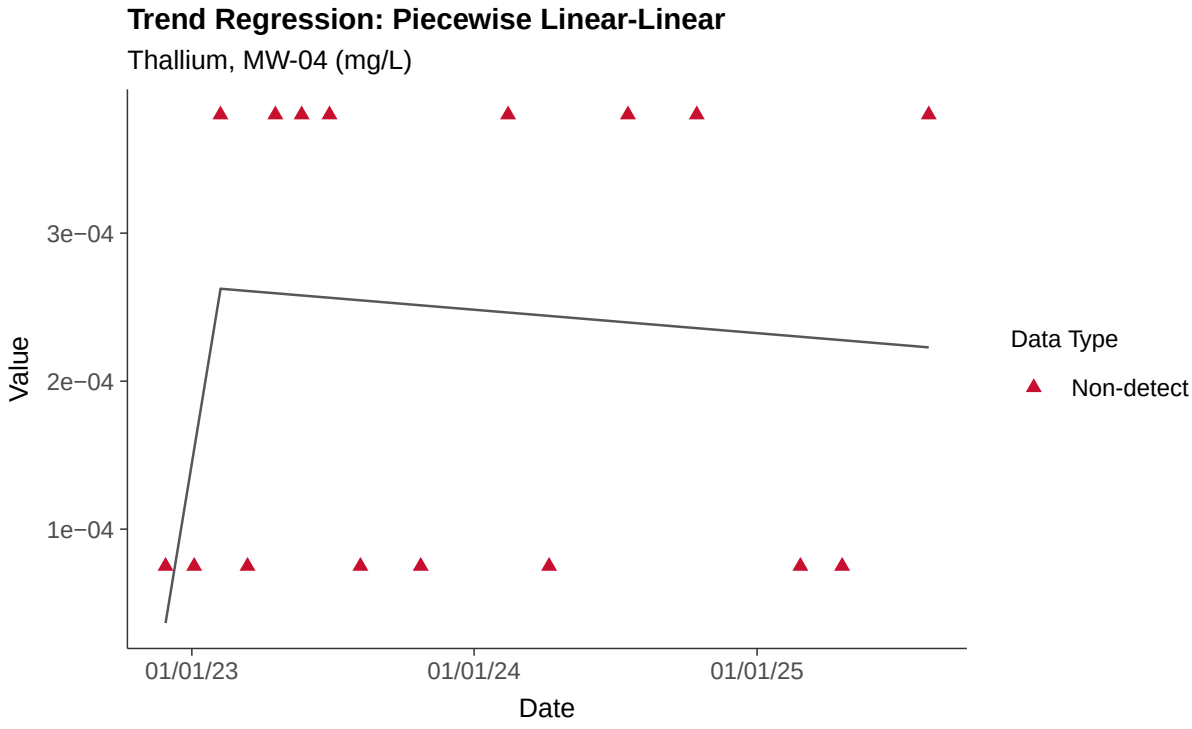
Thallium, MW-04 (mg/L)



Boxplot by Season

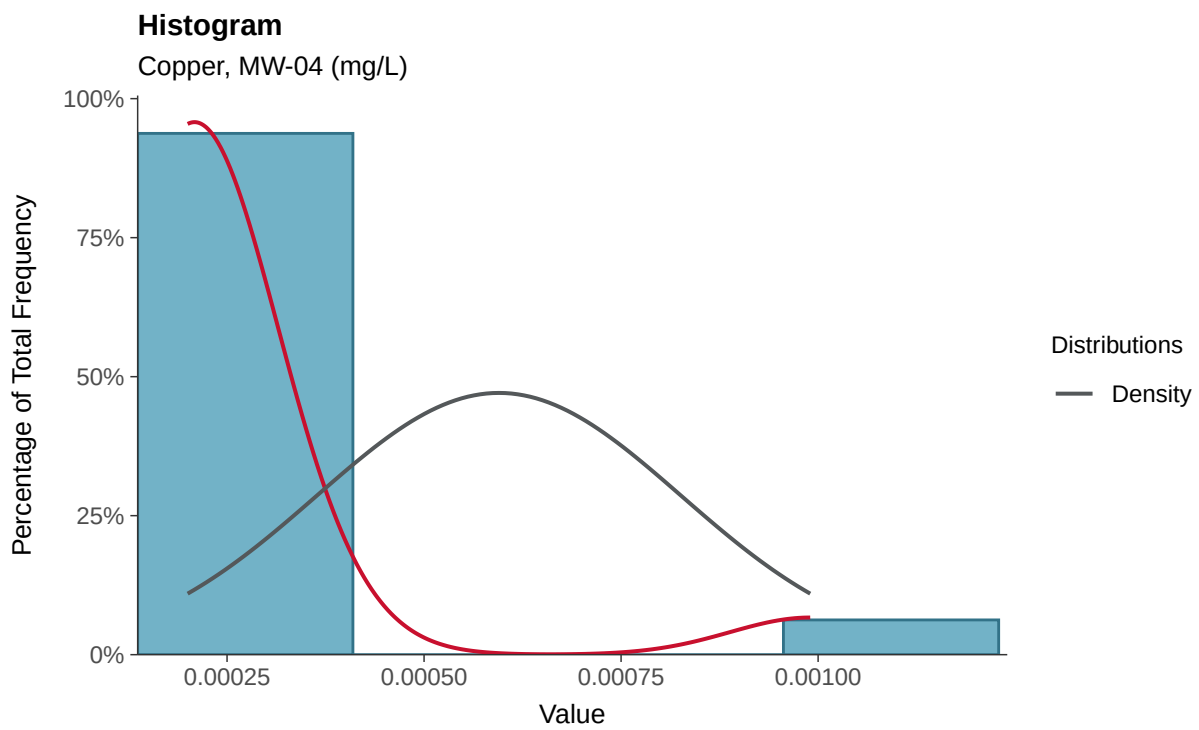
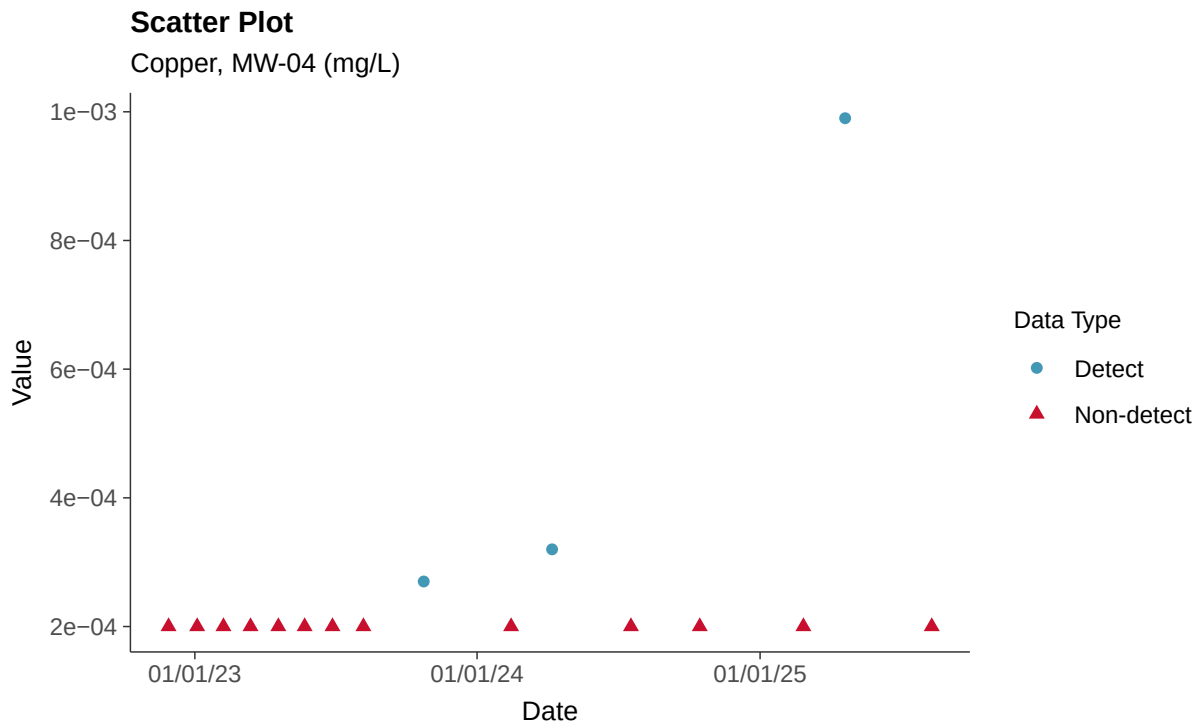
Thallium, MW-04 (mg/L)





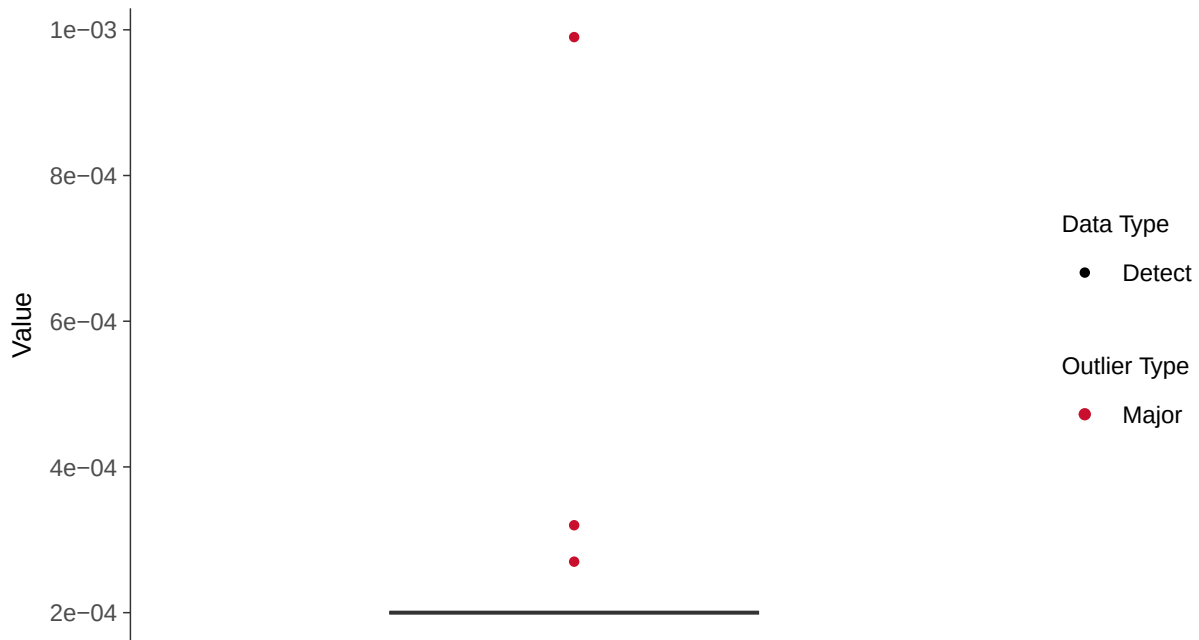
Part 115: Copper, MW-04

ID: 14_2_5_111



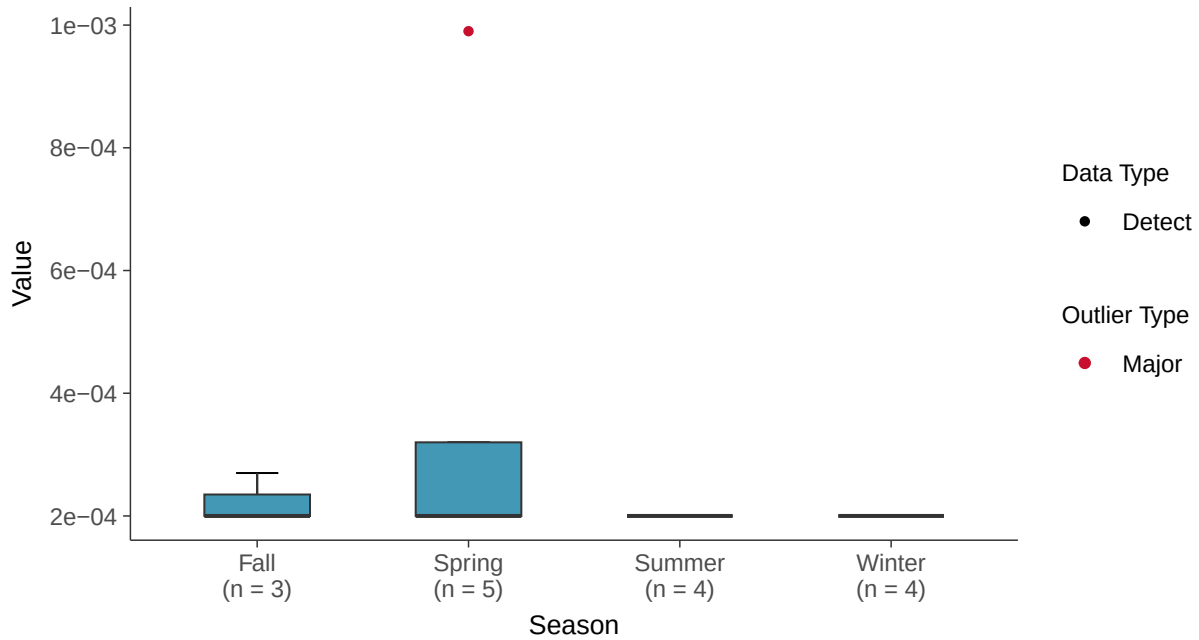
Boxplot

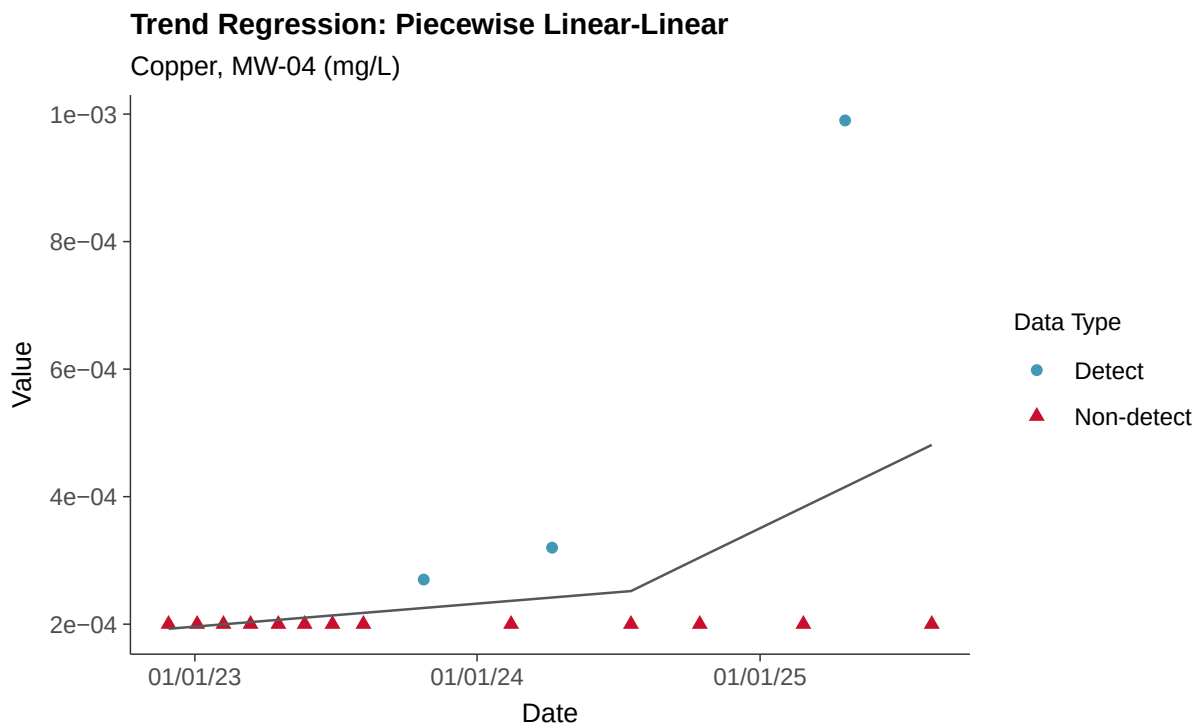
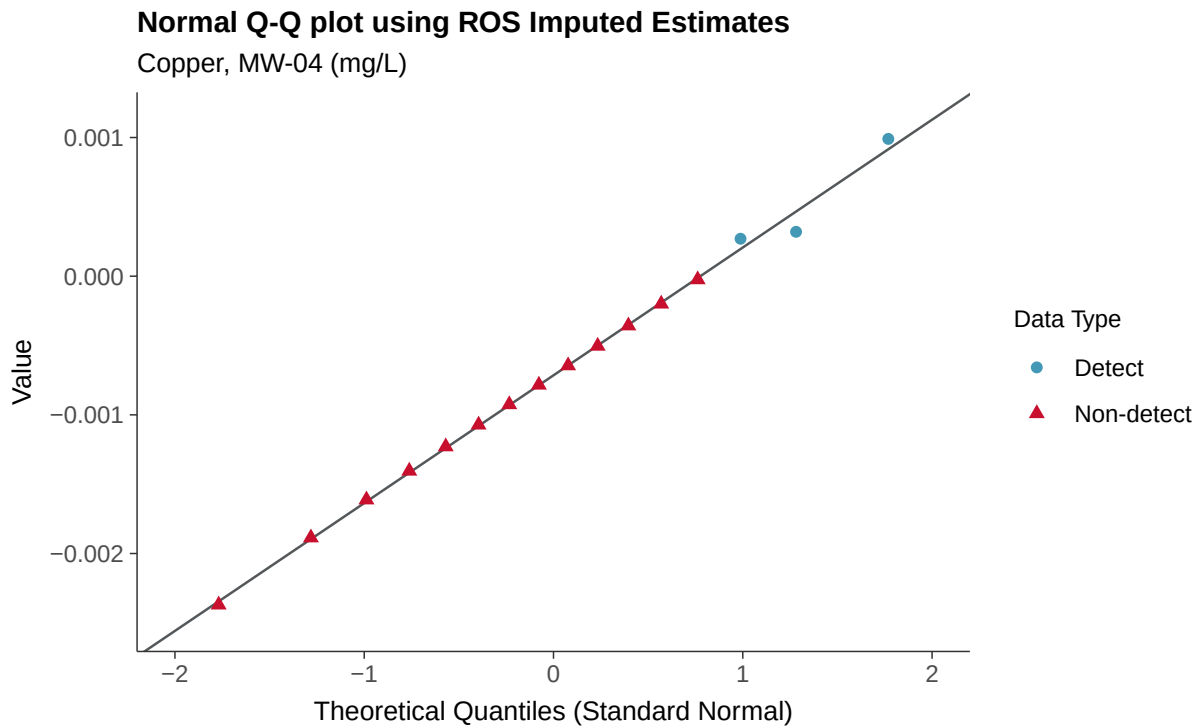
Copper, MW-04 (mg/L)



Boxplot by Season

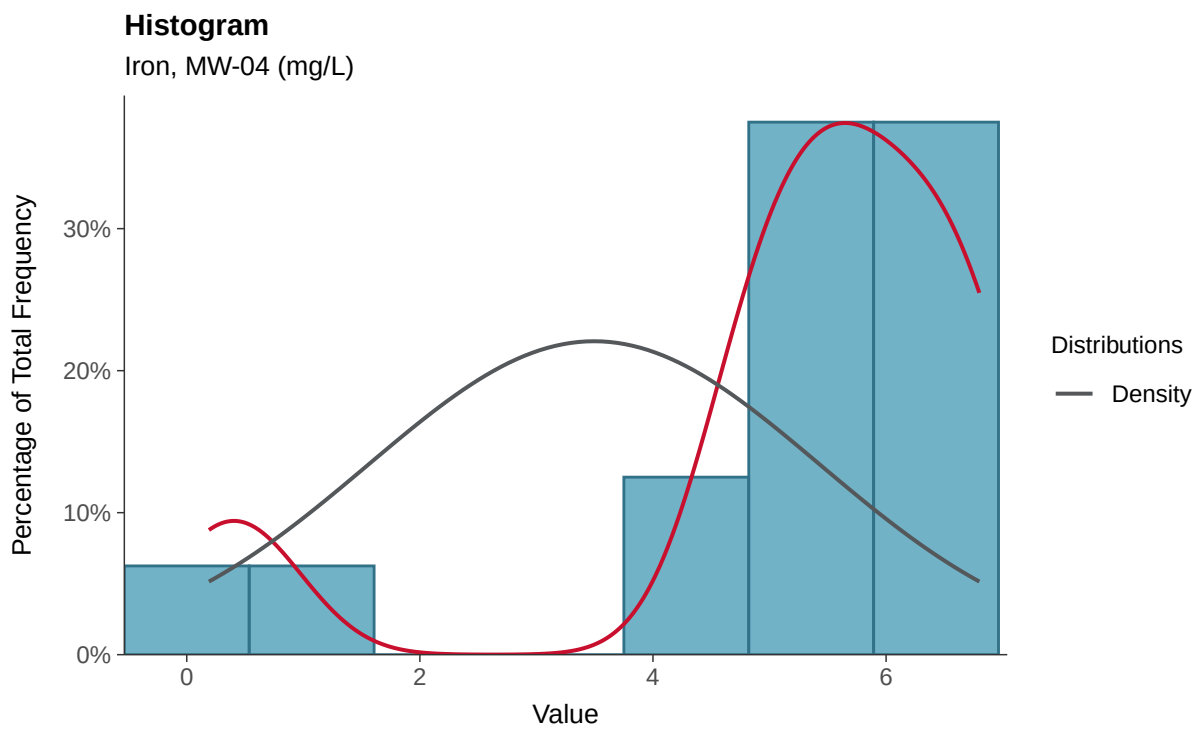
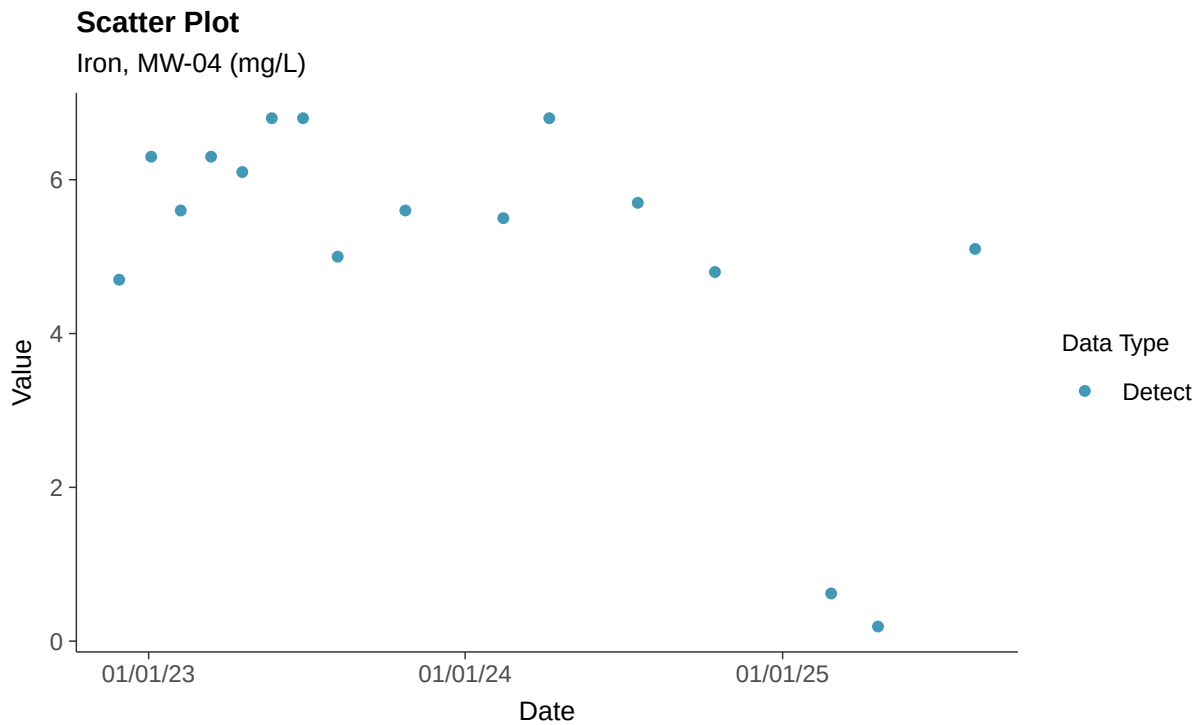
Copper, MW-04 (mg/L)





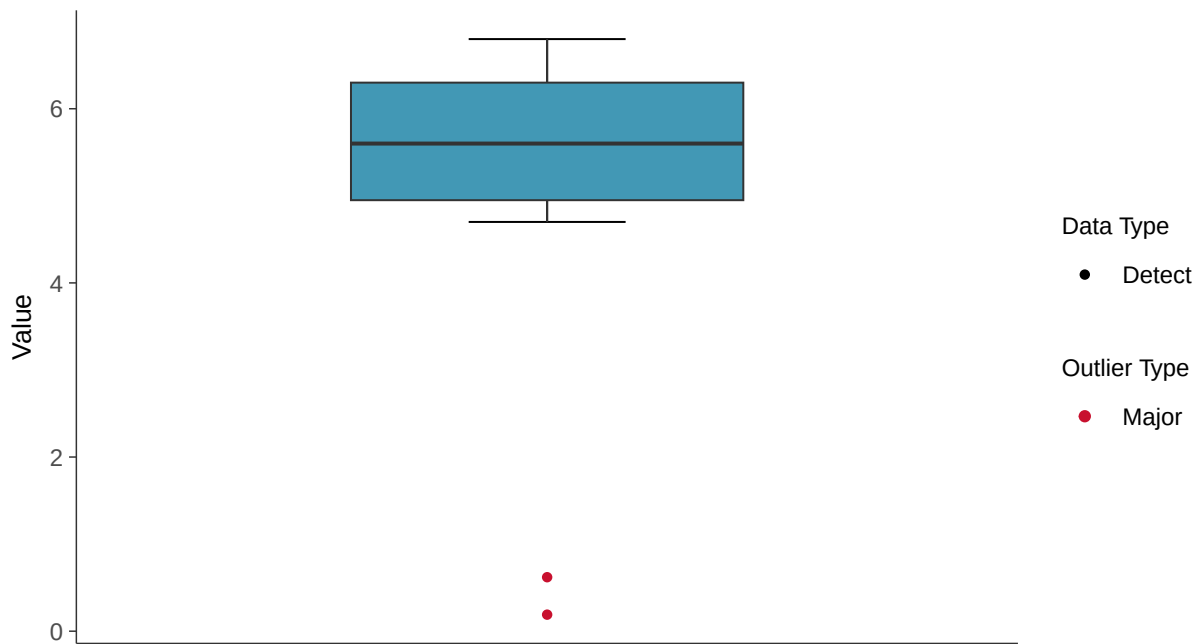
Part 115: Iron, MW-04

ID: 14_2_5_114



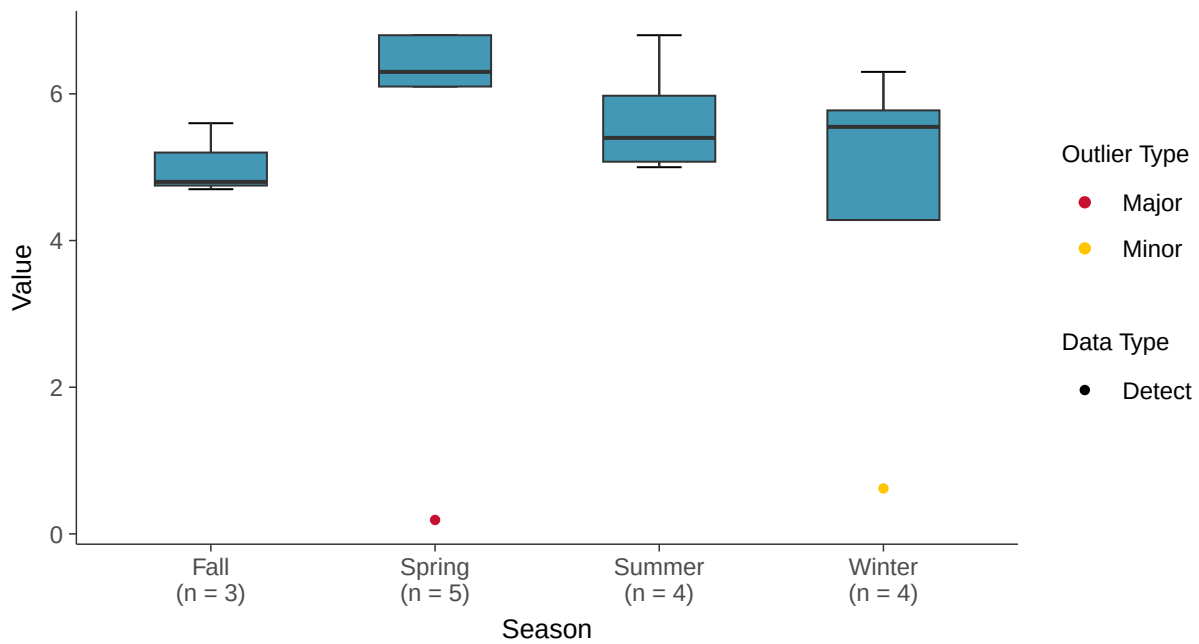
Boxplot

Iron, MW-04 (mg/L)



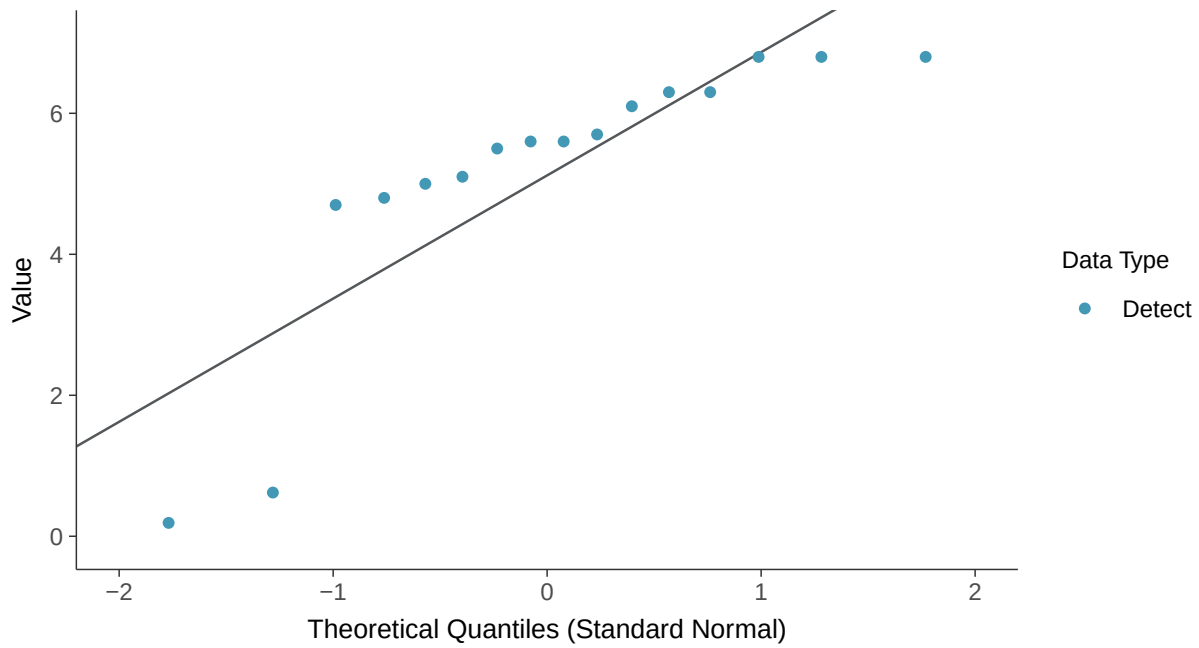
Boxplot by Season

Iron, MW-04 (mg/L)



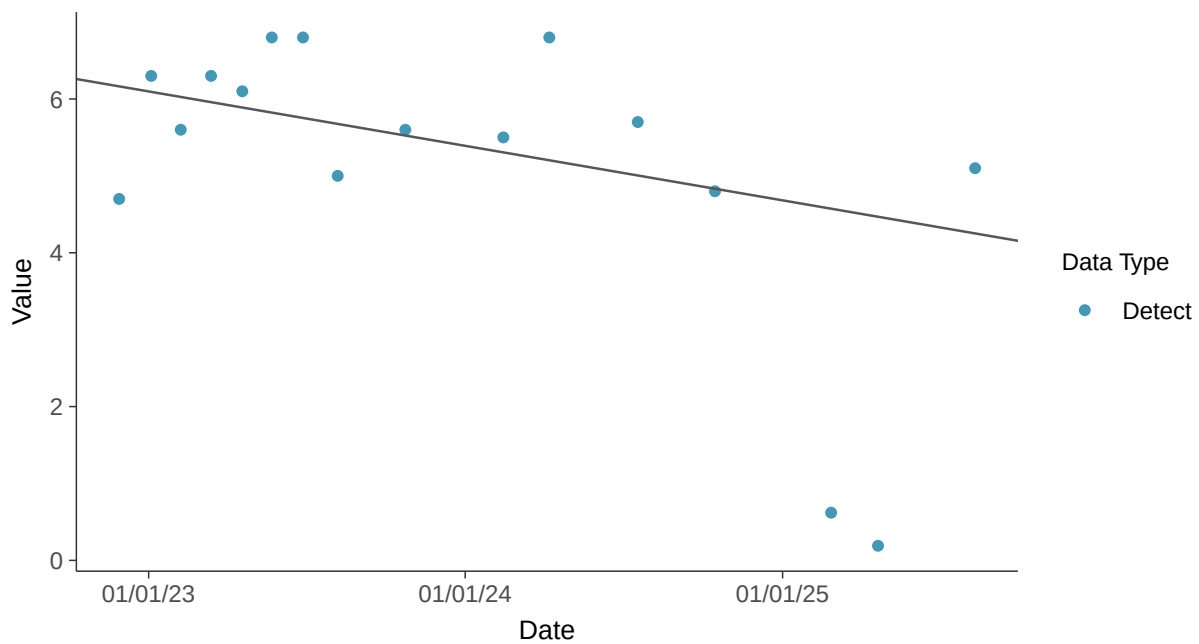
Normal Q-Q plot

Iron, MW-04 (mg/L)



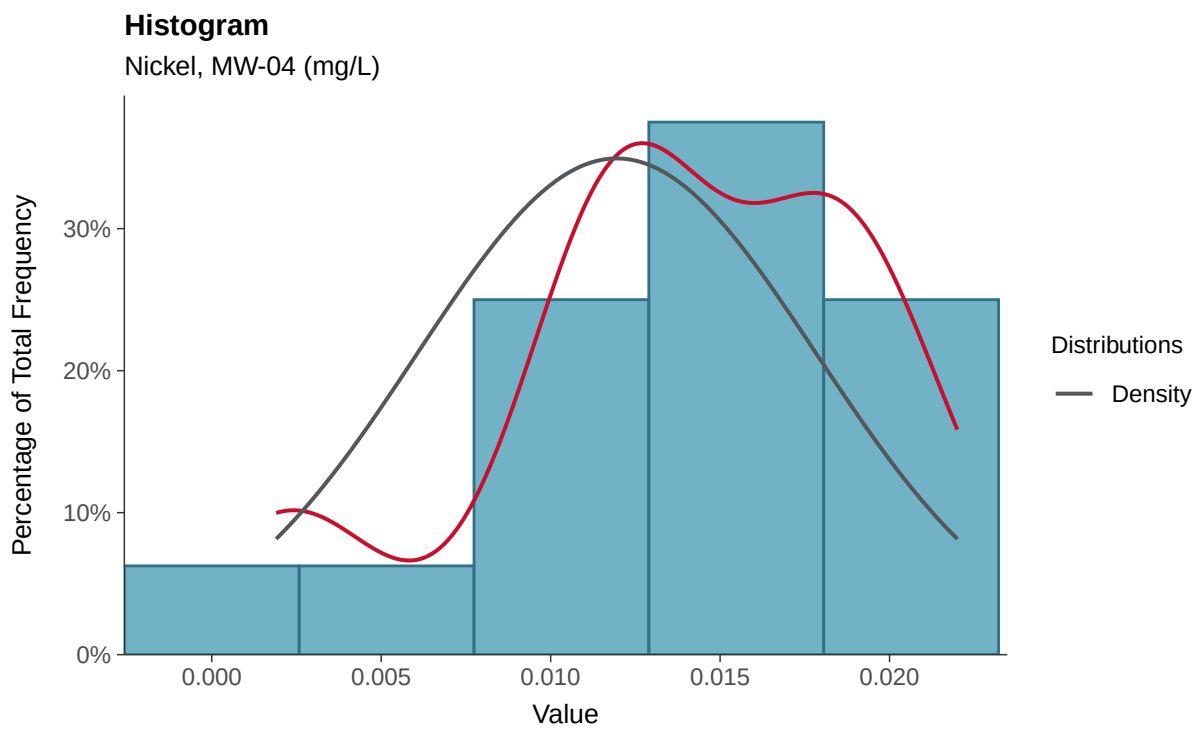
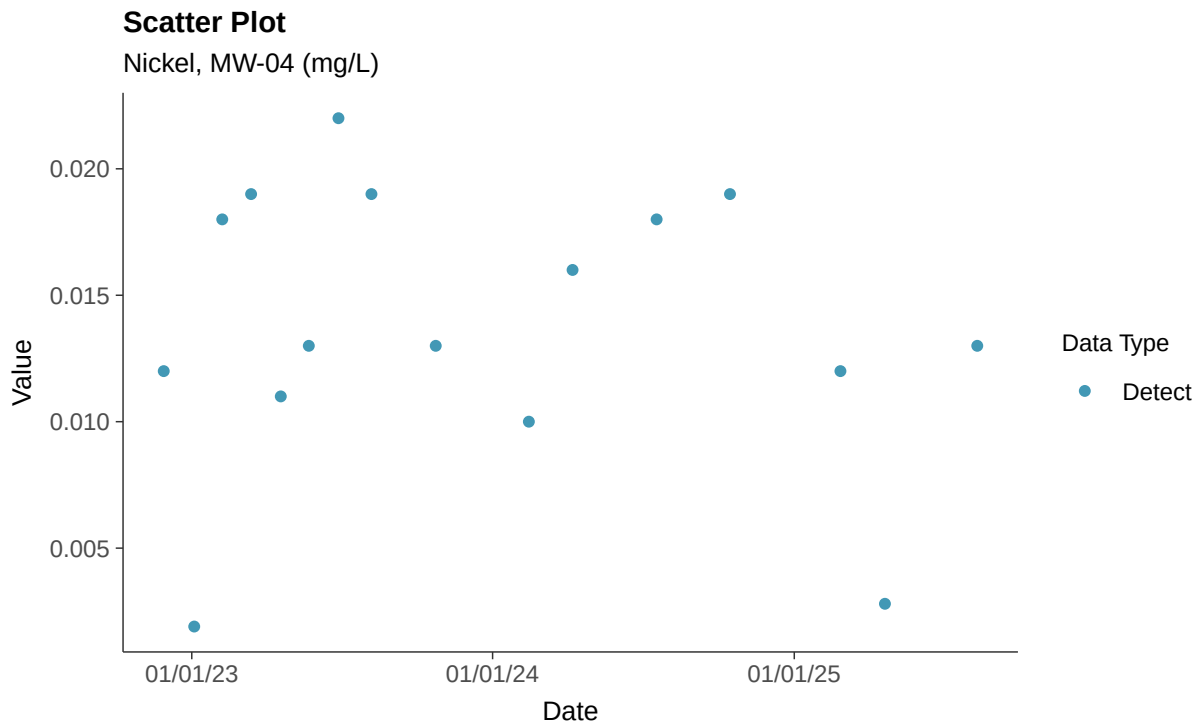
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Iron, MW-04 (mg/L)



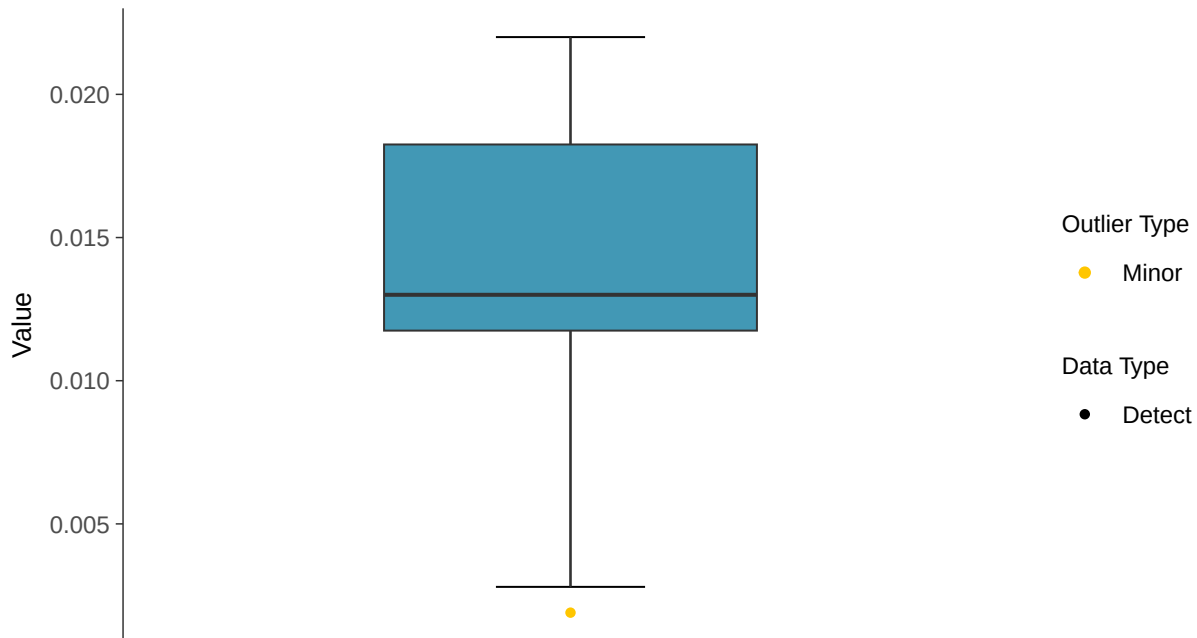
Part 115: Nickel, MW-04

ID: 14_2_5_119



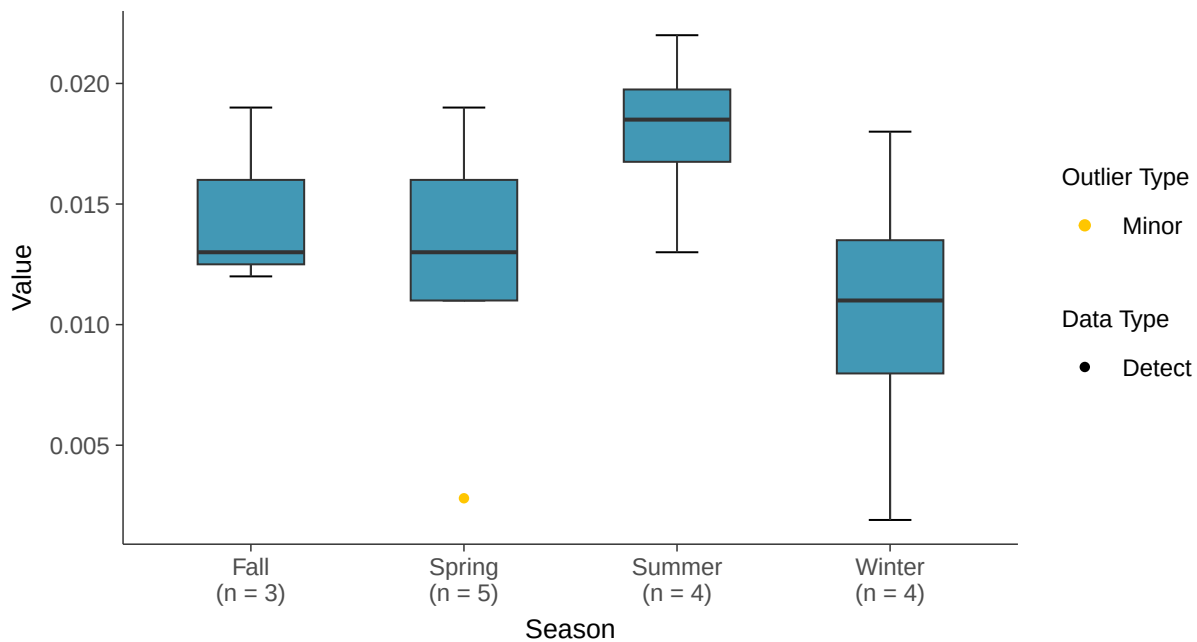
Boxplot

Nickel, MW-04 (mg/L)



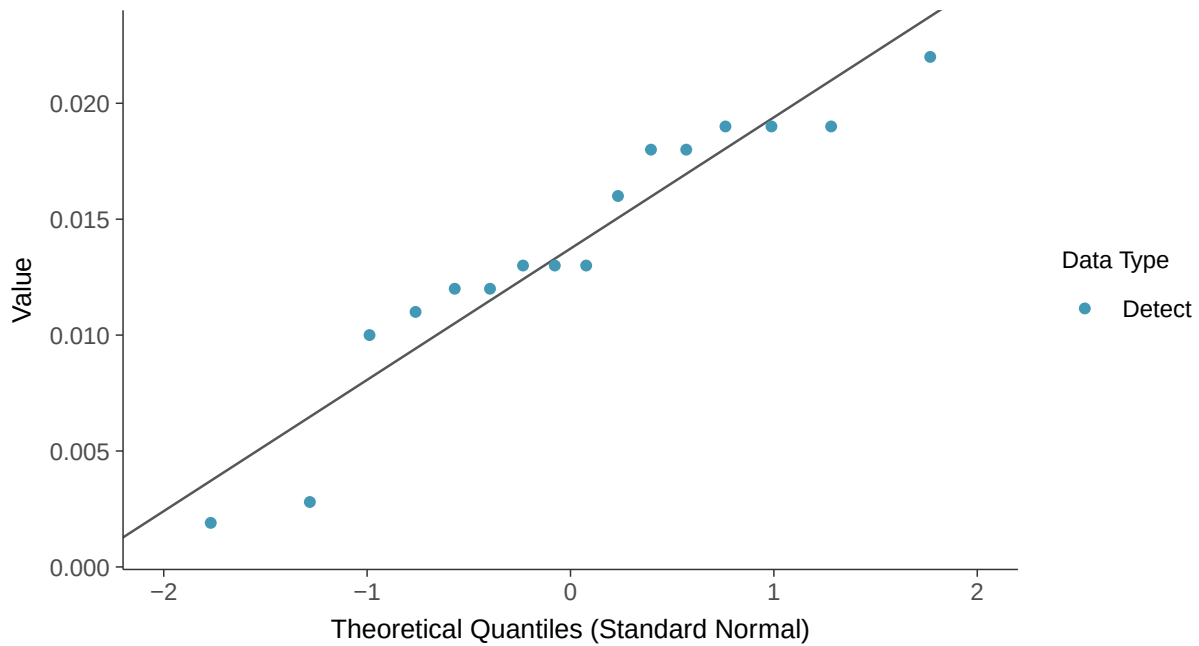
Boxplot by Season

Nickel, MW-04 (mg/L)



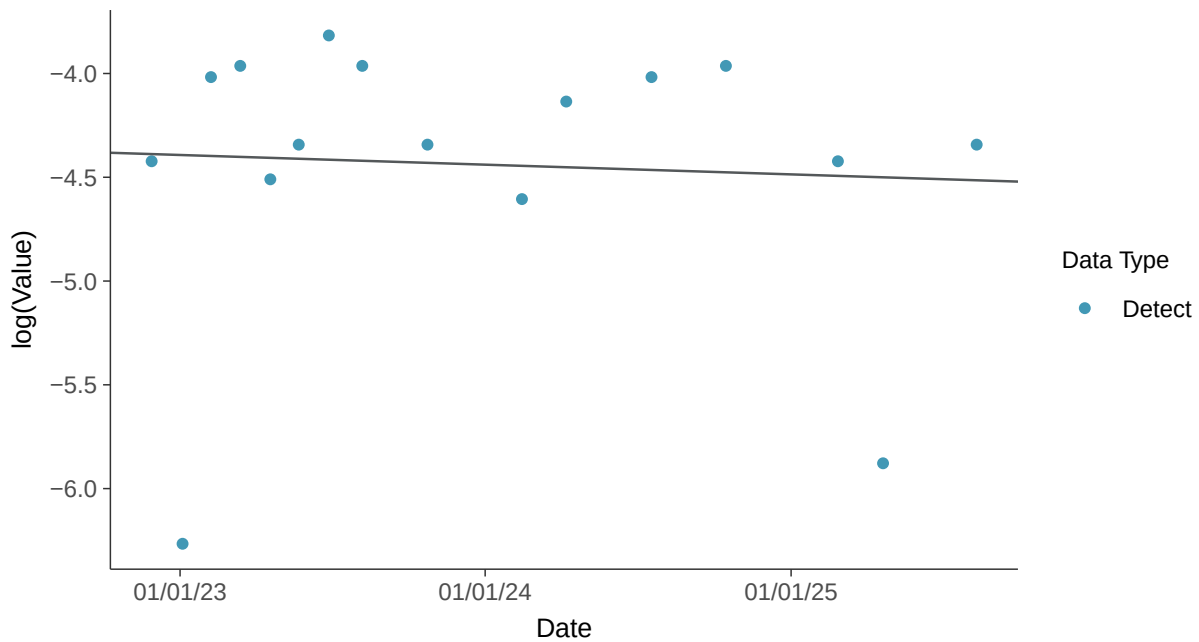
Normal Q-Q plot

Nickel, MW-04 (mg/L)



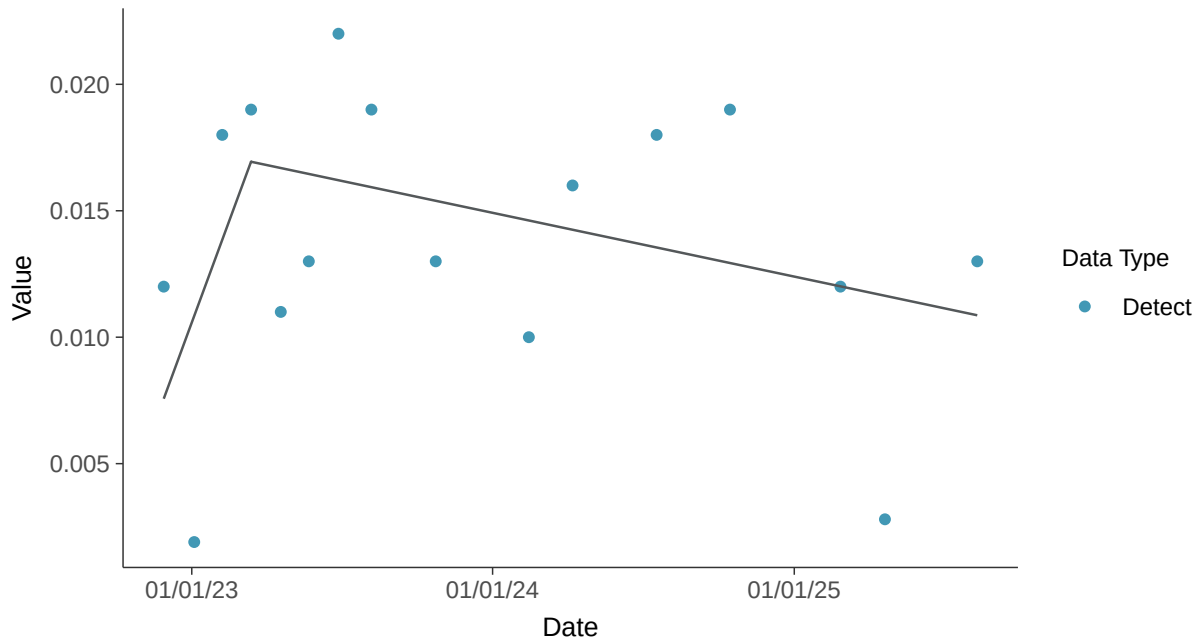
Trend Regression: Lognormal MLE

Nickel, MW-04 (mg/L)



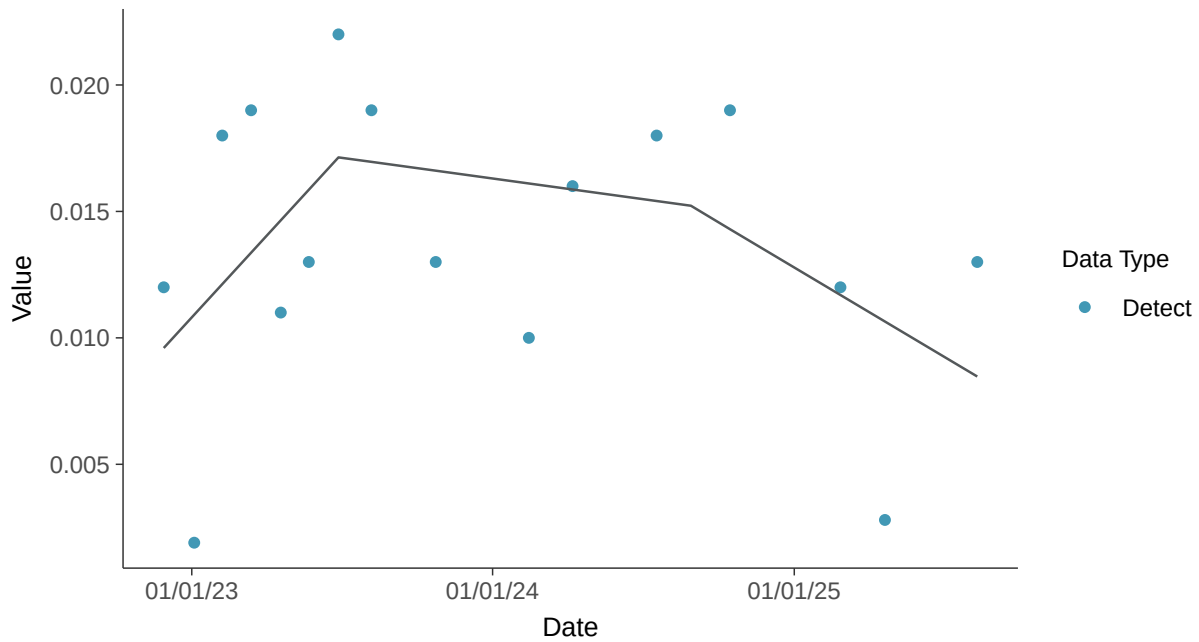
Trend Regression: Piecewise Linear-Linear

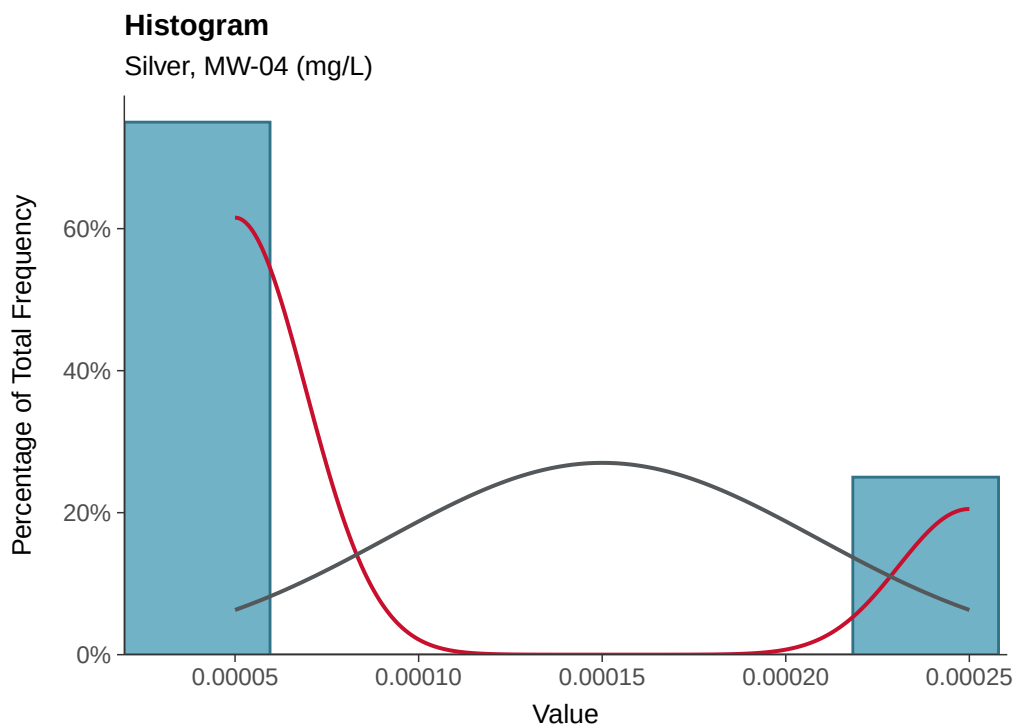
Nickel, MW-04 (mg/L)

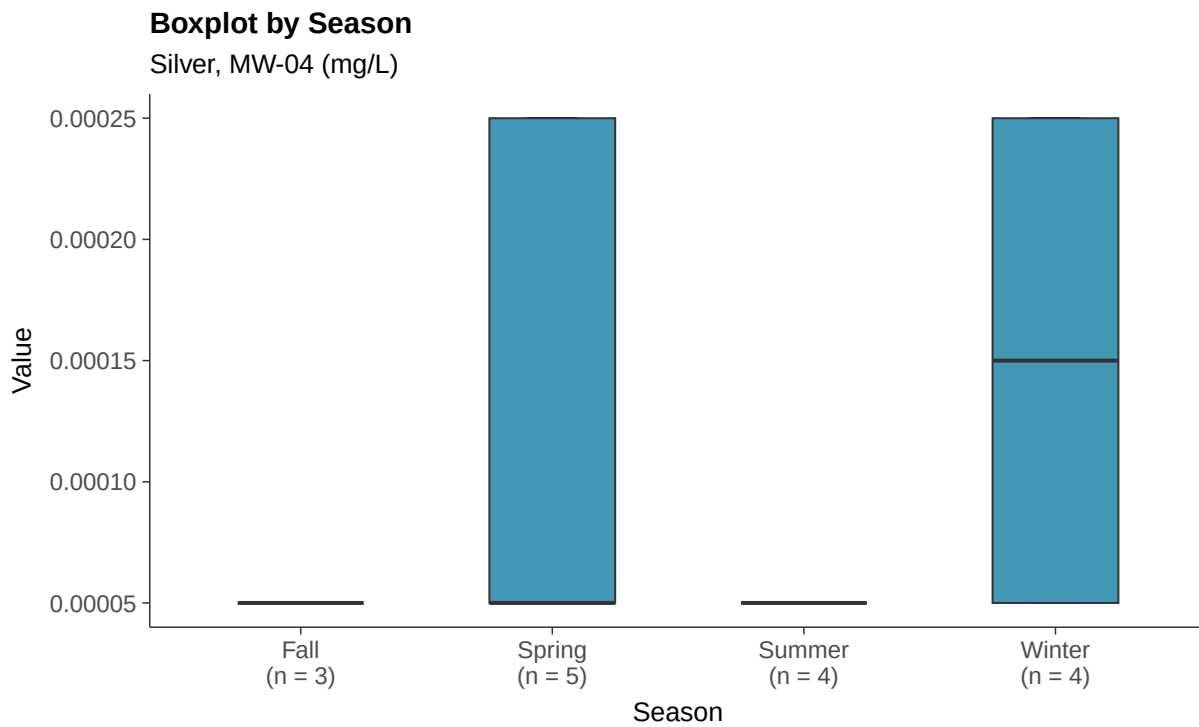
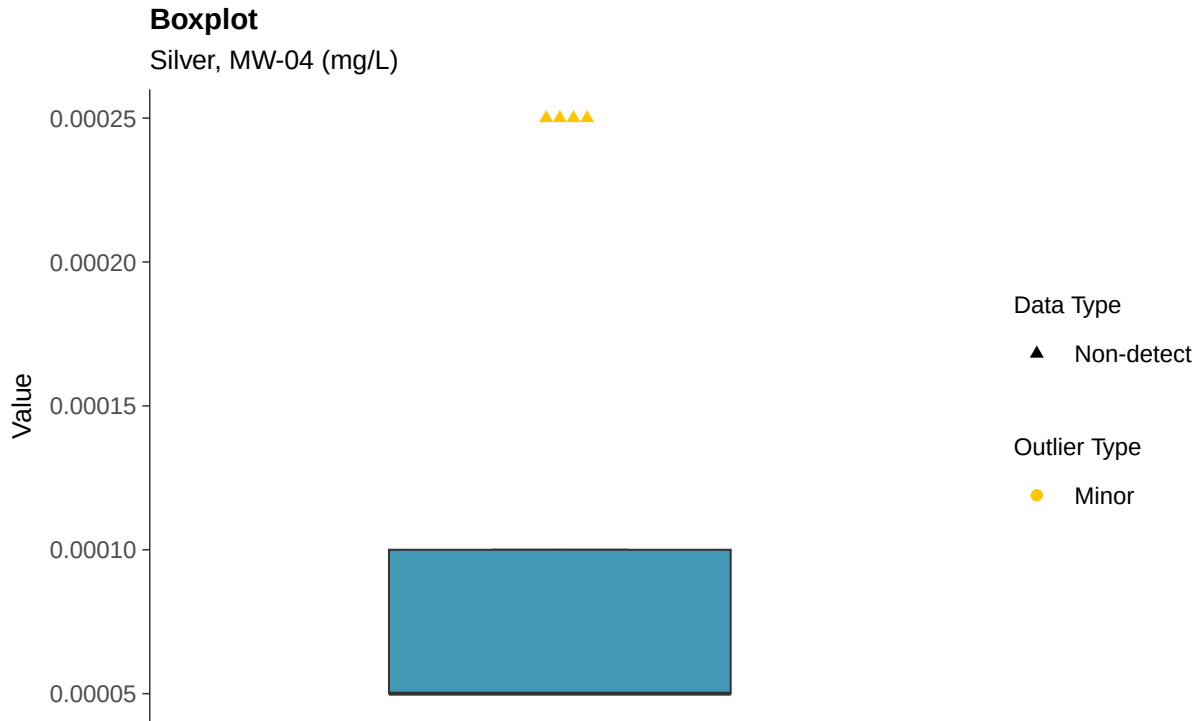


Trend Regression: Piecewise Linear-Linear-Linear

Nickel, MW-04 (mg/L)

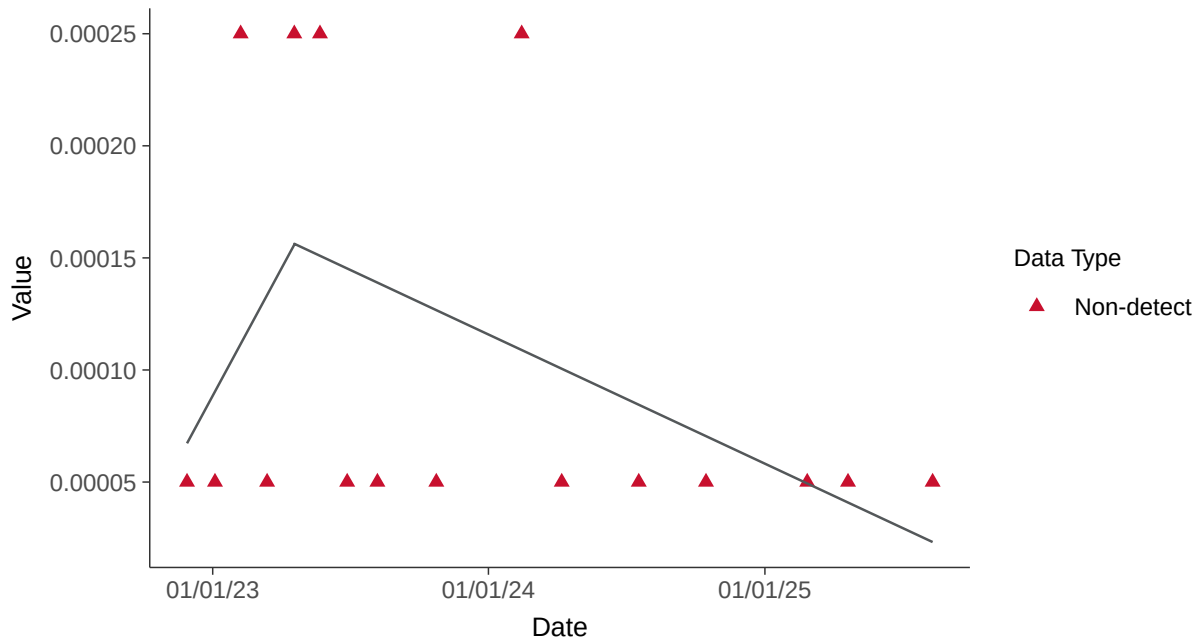






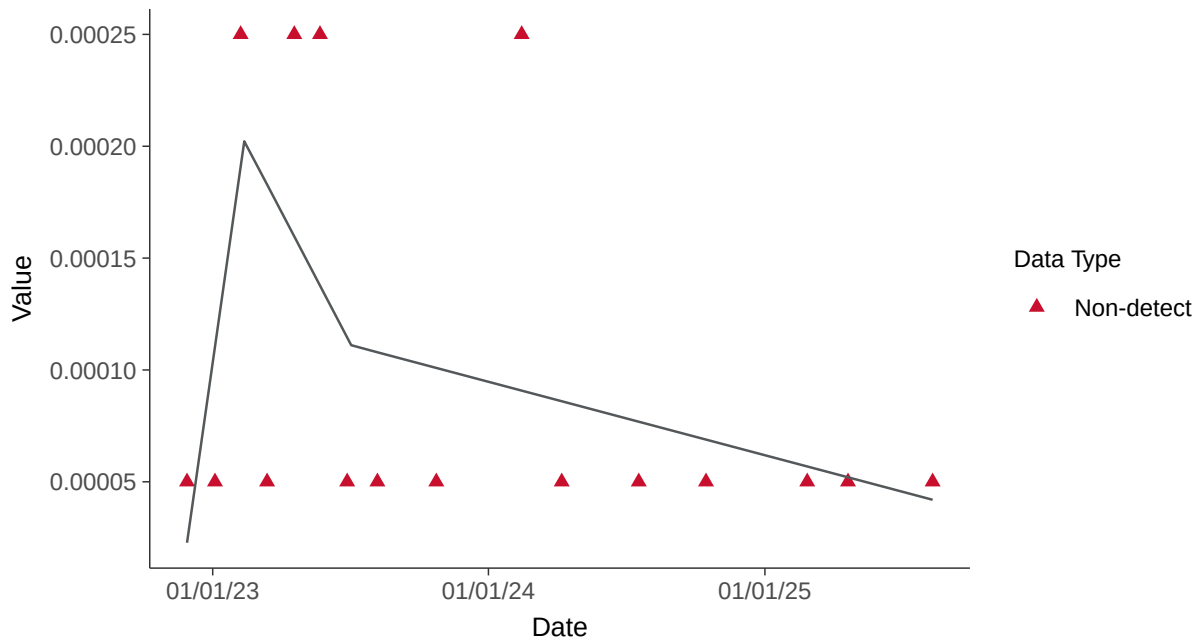
Trend Regression: Piecewise Linear-Linear

Silver, MW-04 (mg/L)



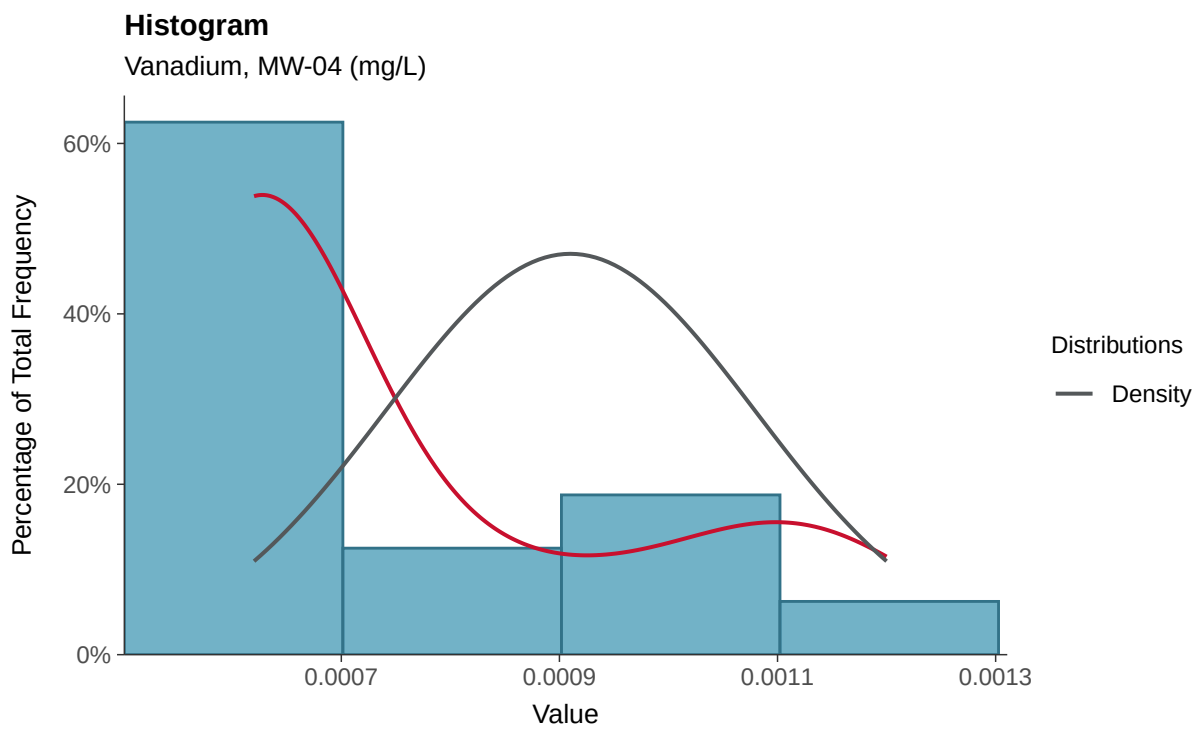
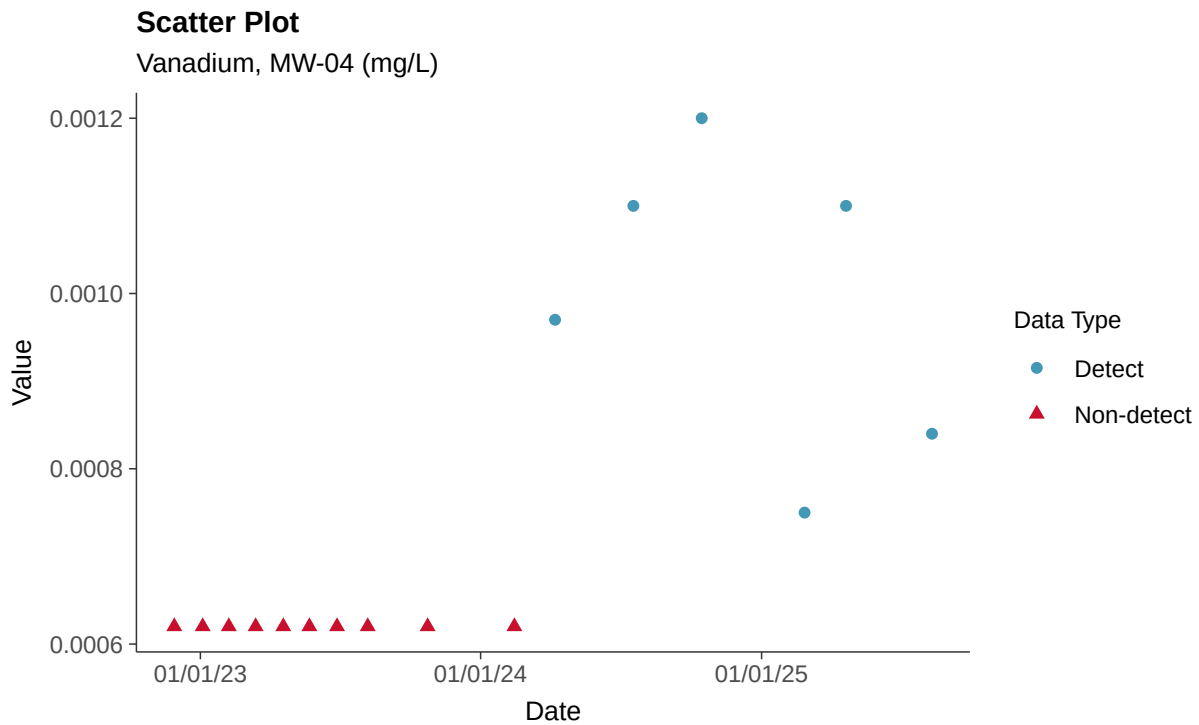
Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-04 (mg/L)



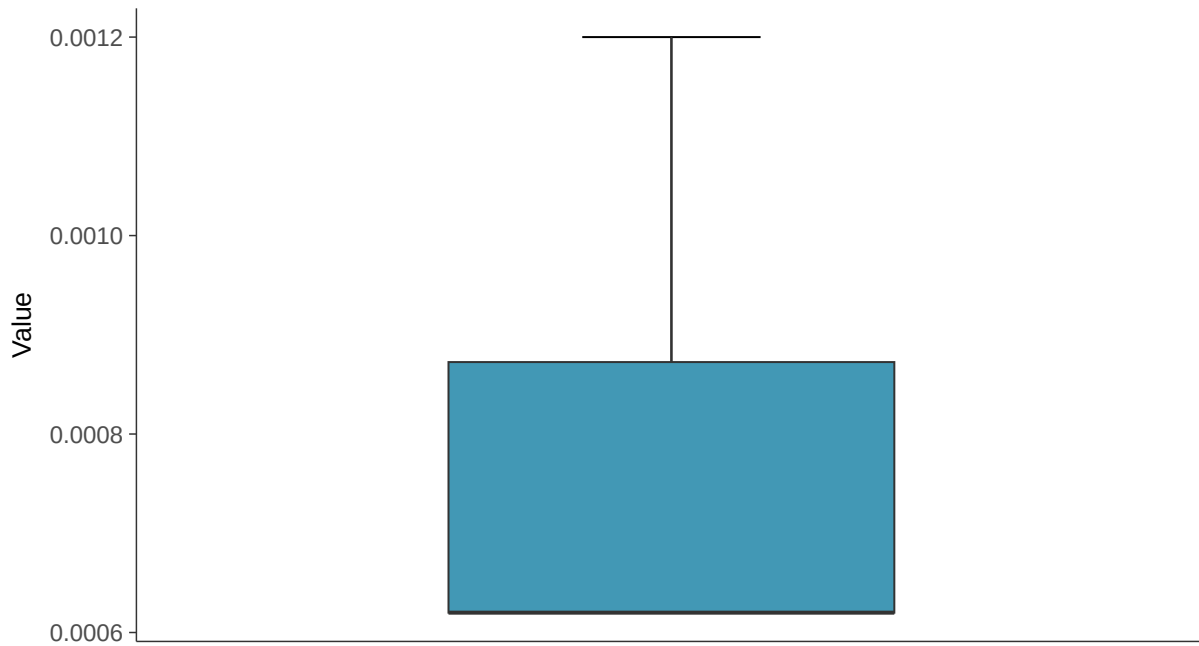
Part 115: Vanadium, MW-04

ID: 14_2_5_128



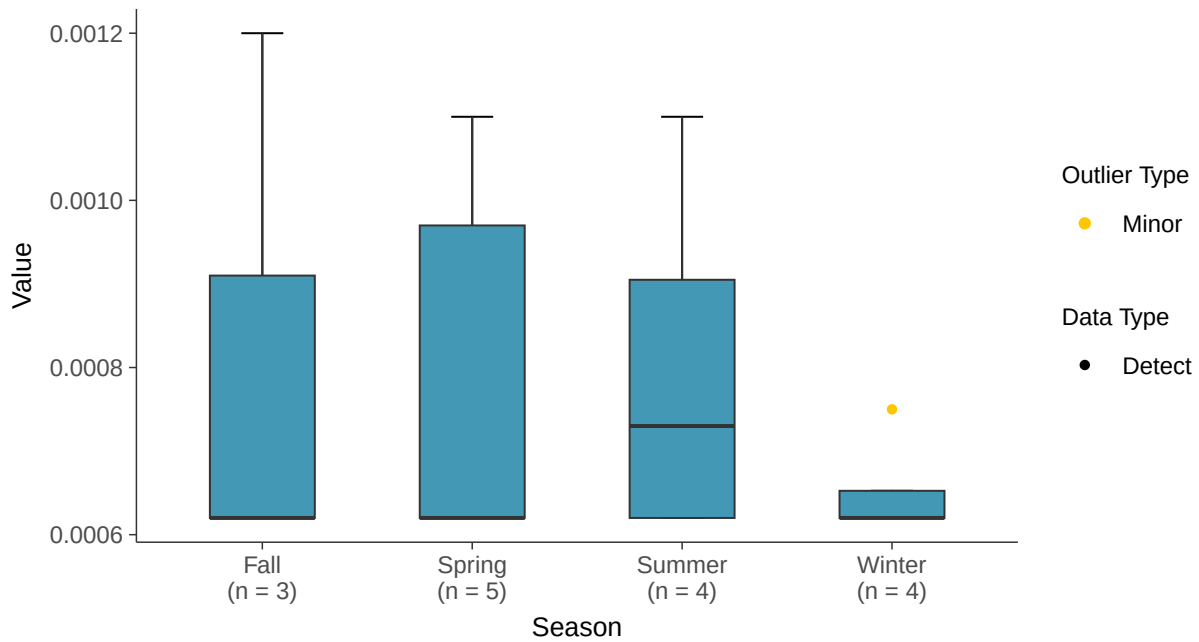
Boxplot

Vanadium, MW-04 (mg/L)



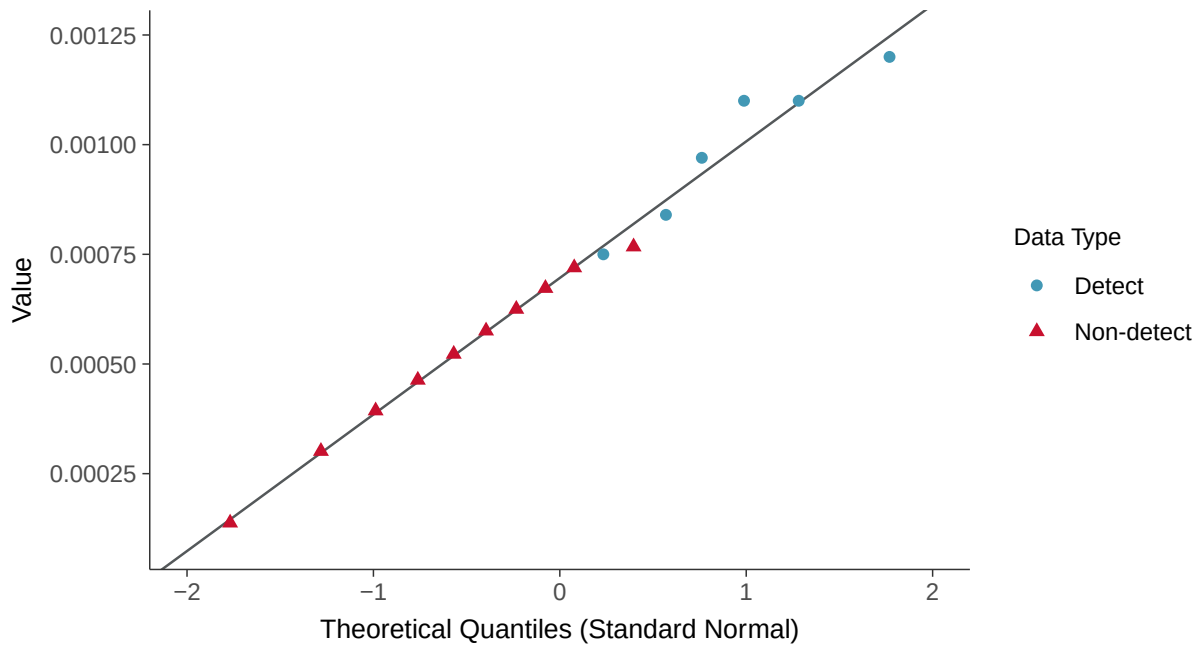
Boxplot by Season

Vanadium, MW-04 (mg/L)



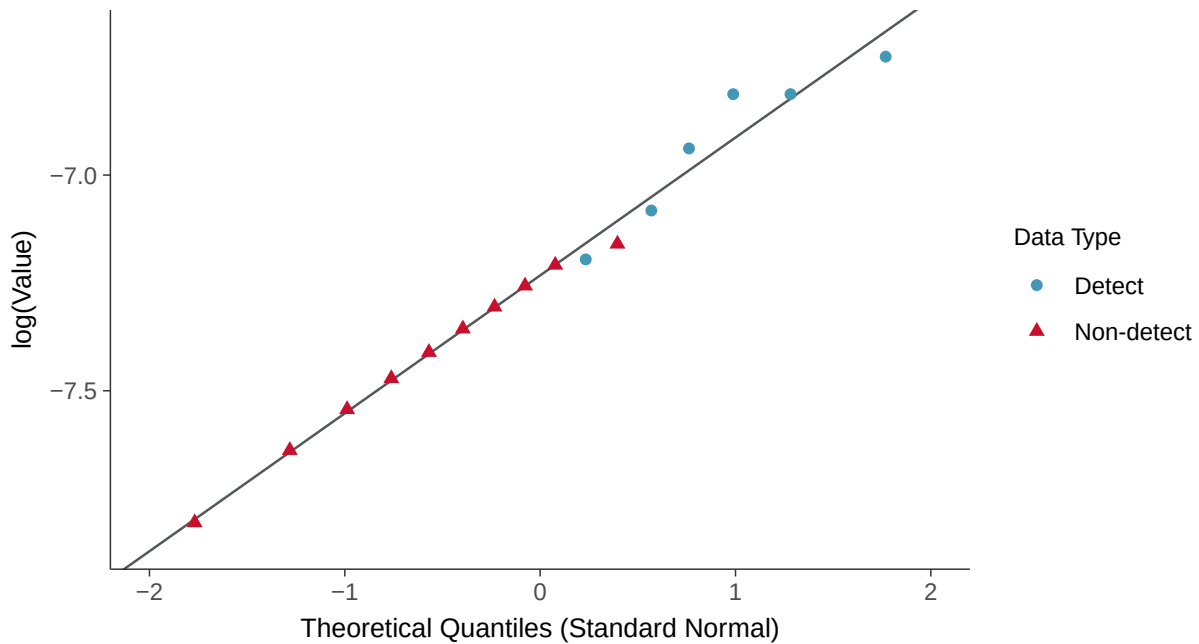
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-04 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-04 (mg/L)



Vanadium, MW-04 (mg/L)

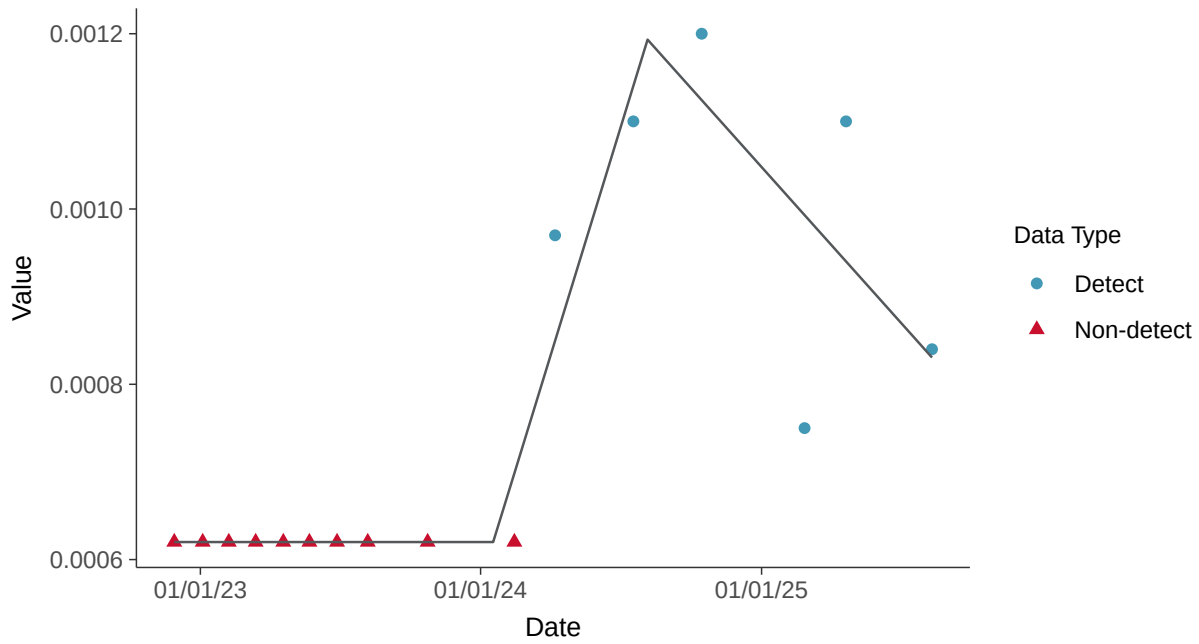


Vanadium, MW-04 (mg/L)



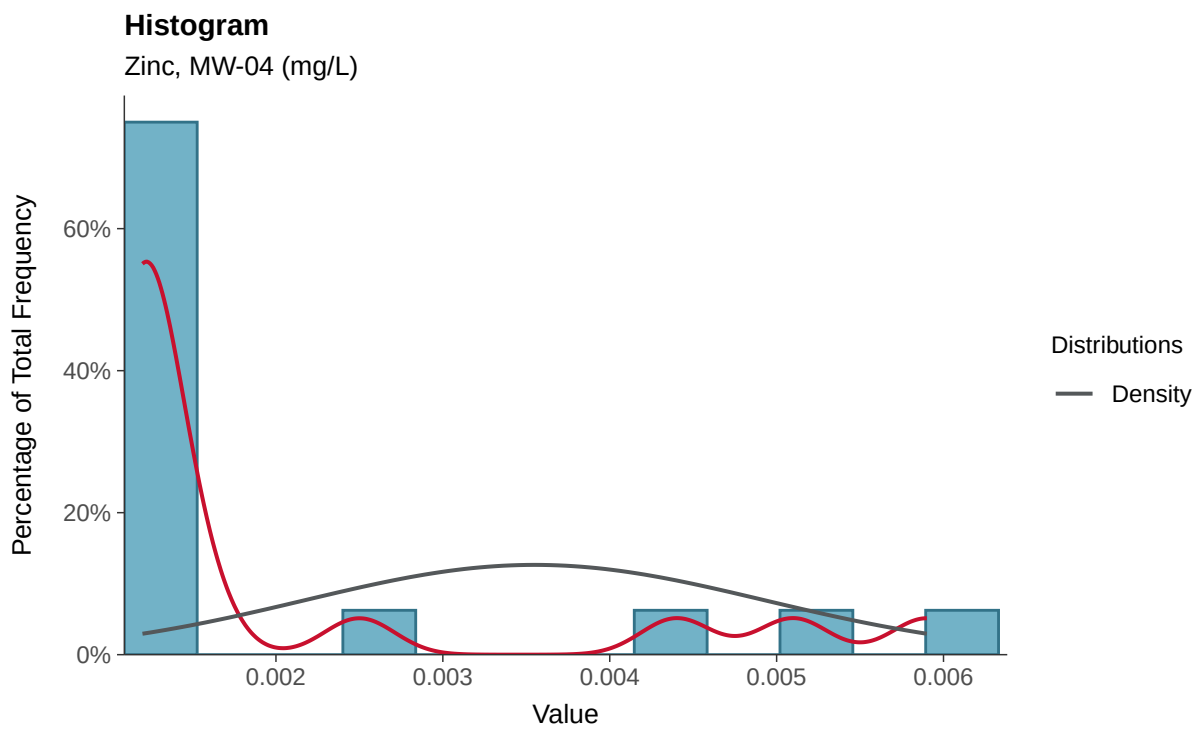
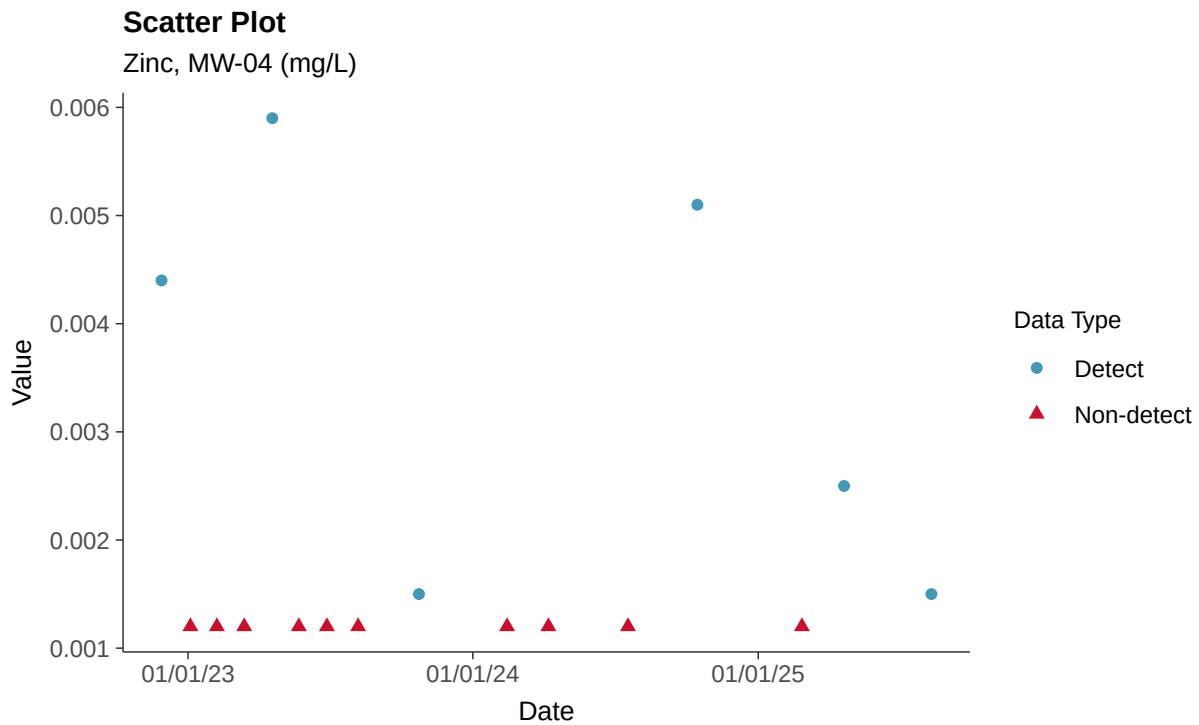
Trend Regression: Piecewise Linear-Linear-Linear

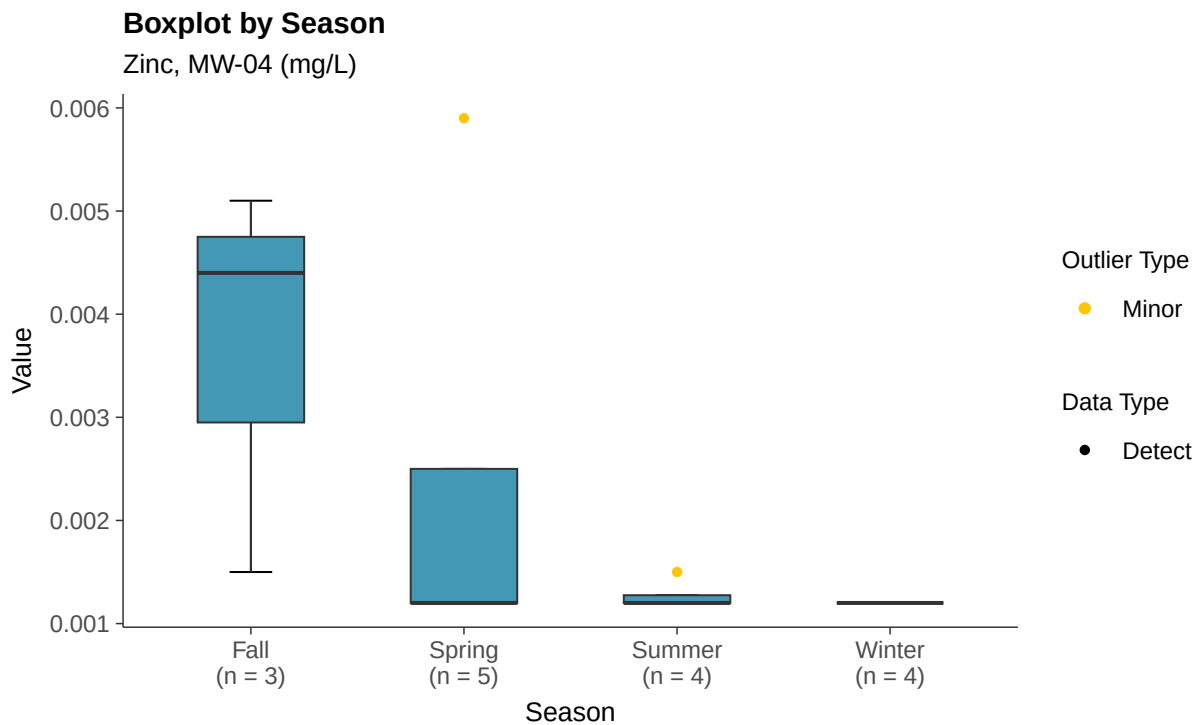
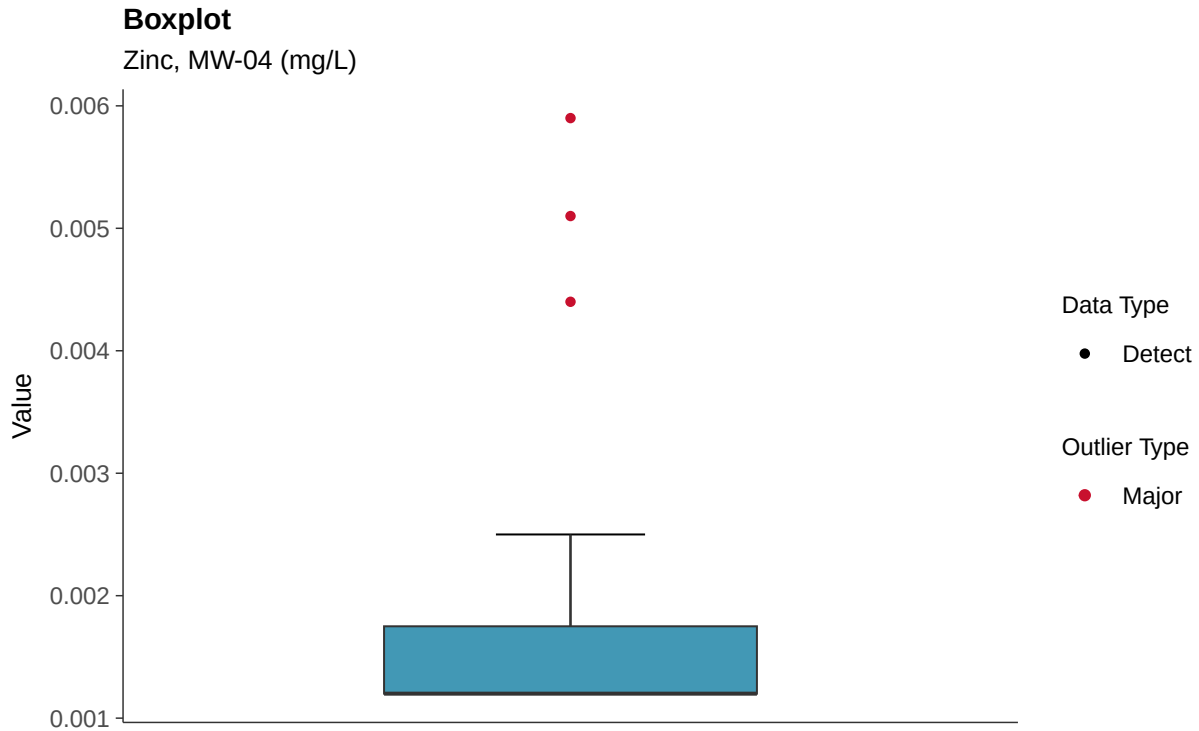
Vanadium, MW-04 (mg/L)



Part 115: Zinc, MW-04

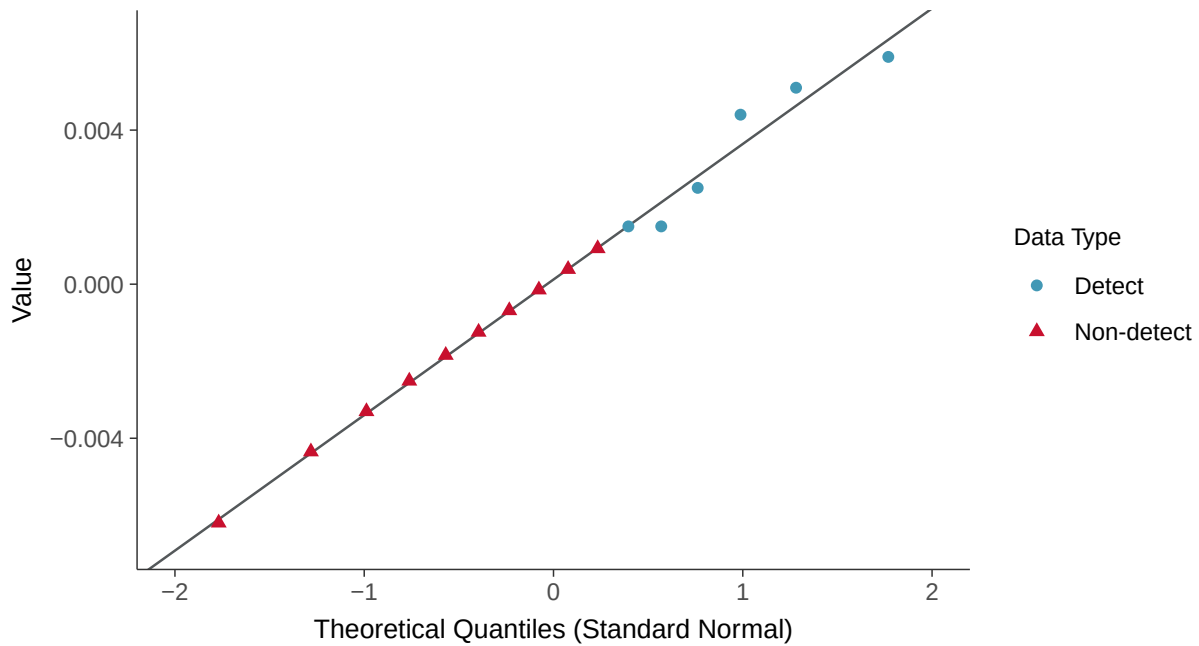
ID: 14_2_5_129





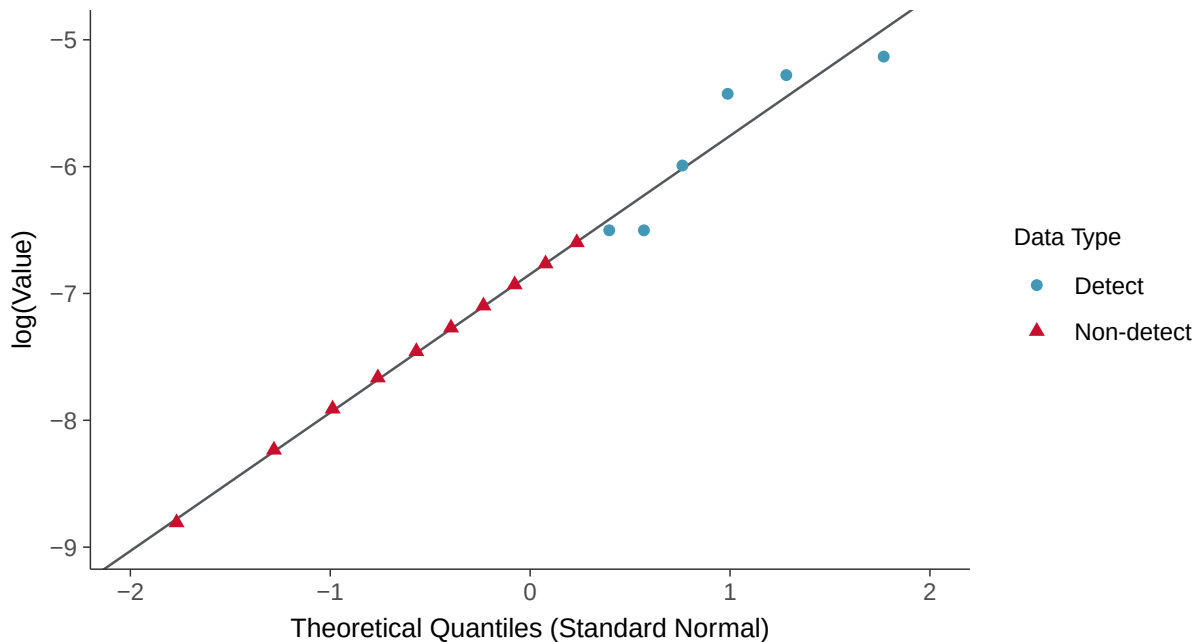
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-04 (mg/L)



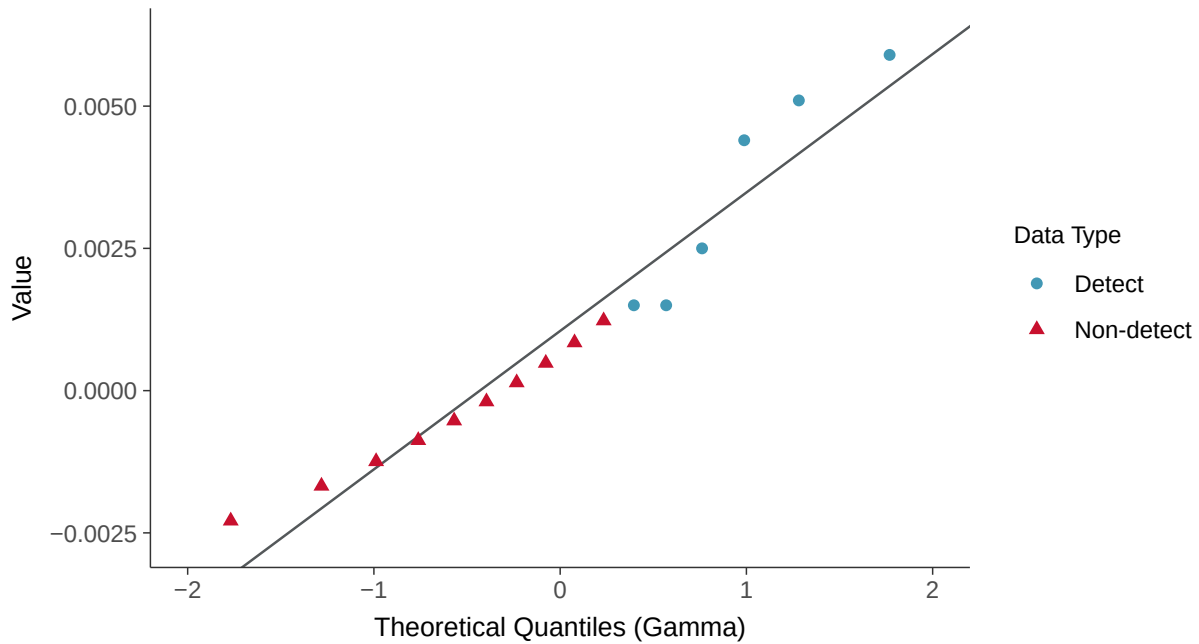
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-04 (mg/L)



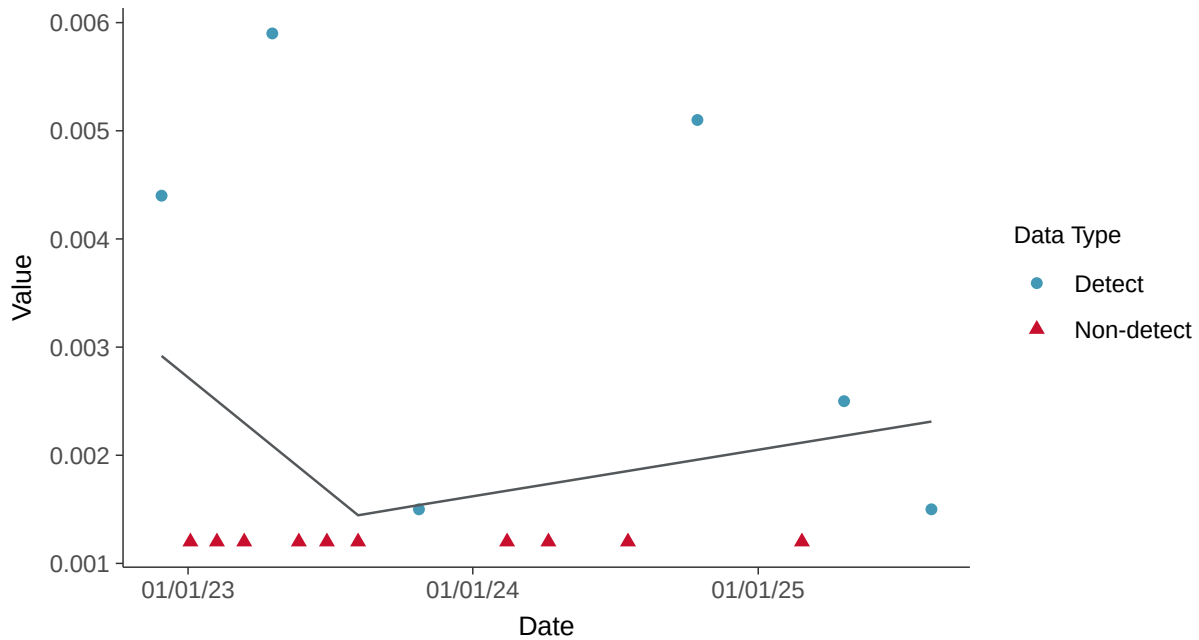
Gamma Q-Q plot using ROS Imputed Estimates

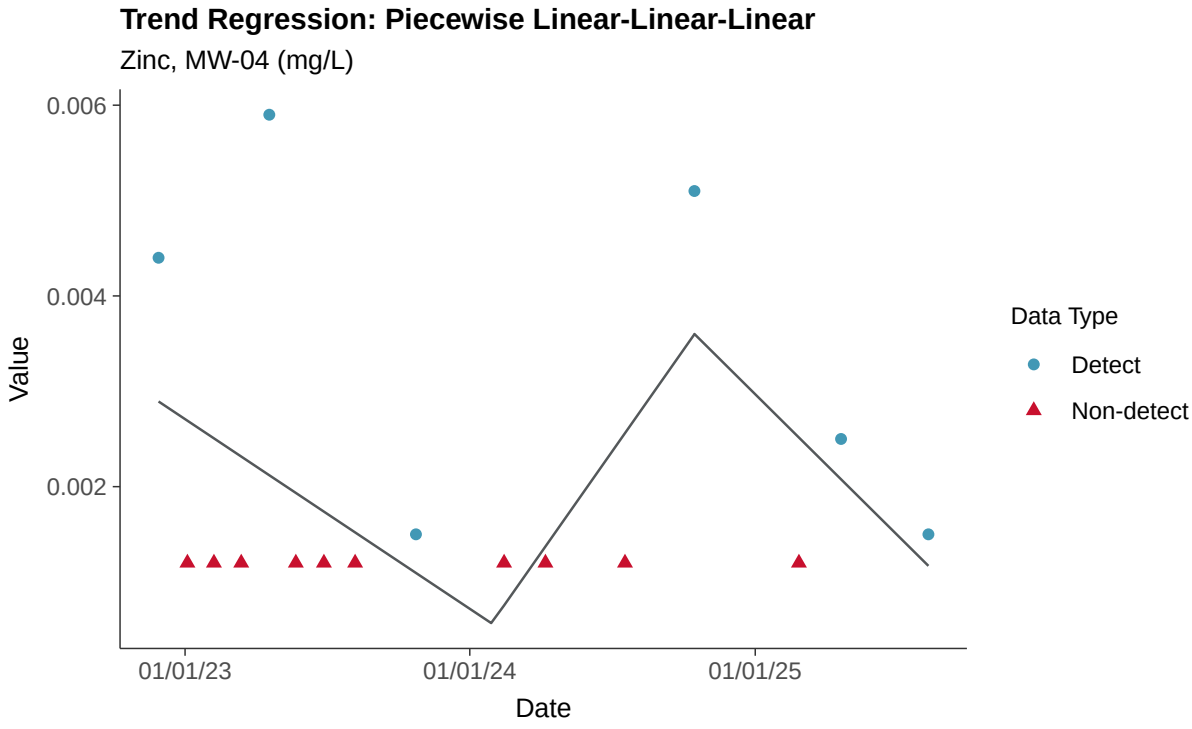
Zinc, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

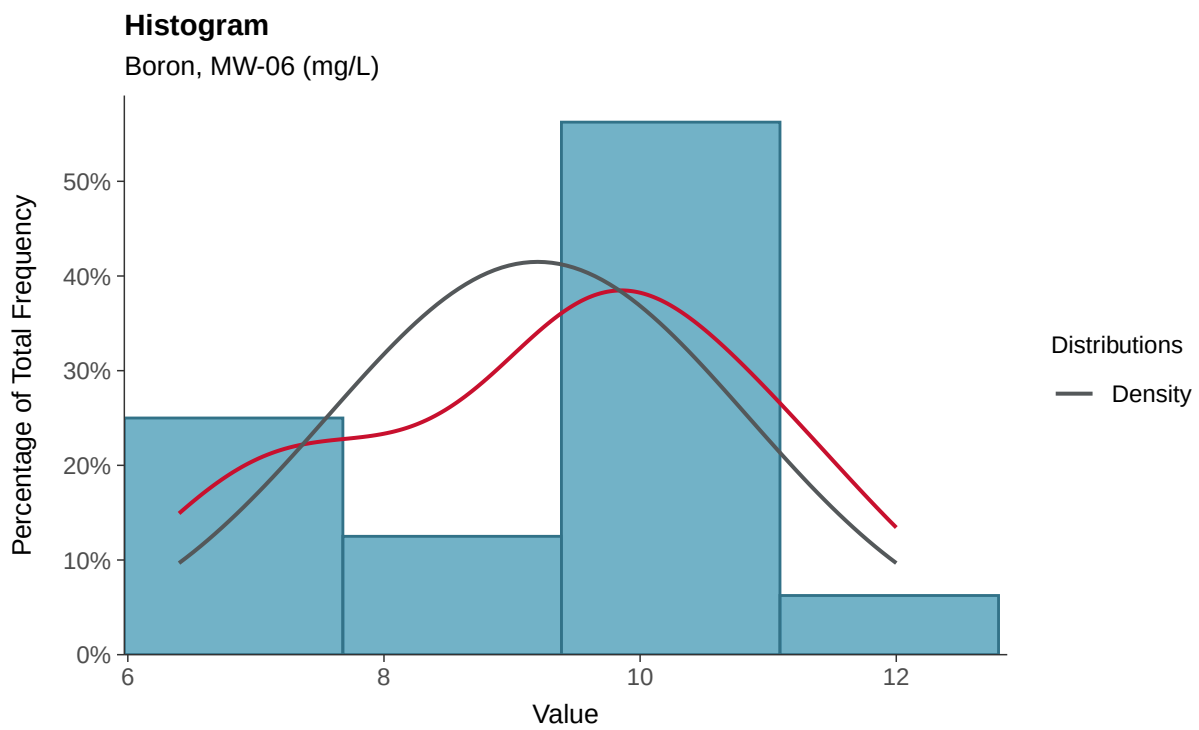
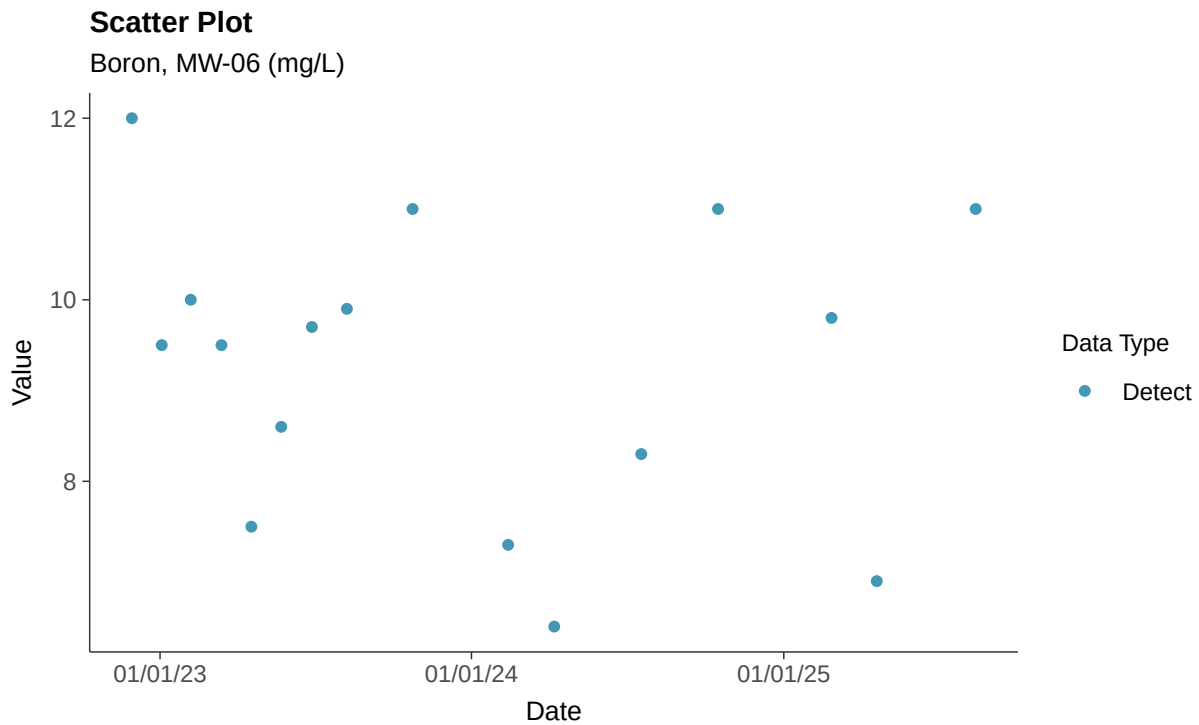
Zinc, MW-04 (mg/L)





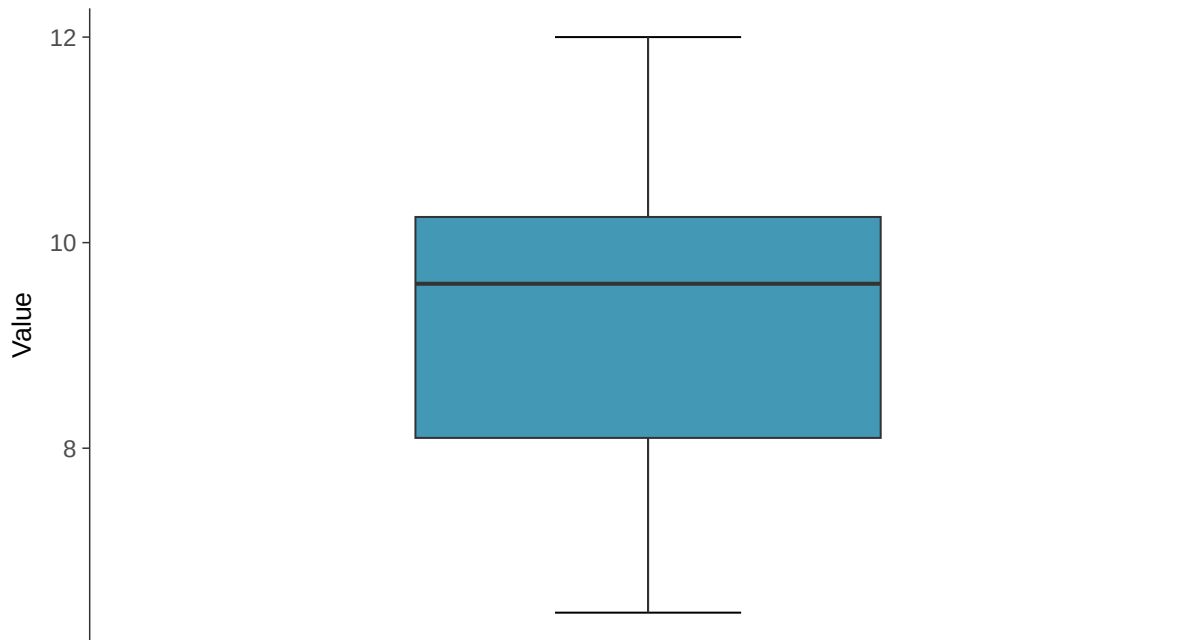
Appendix III: Boron, MW-06

ID: 16_1_3_105



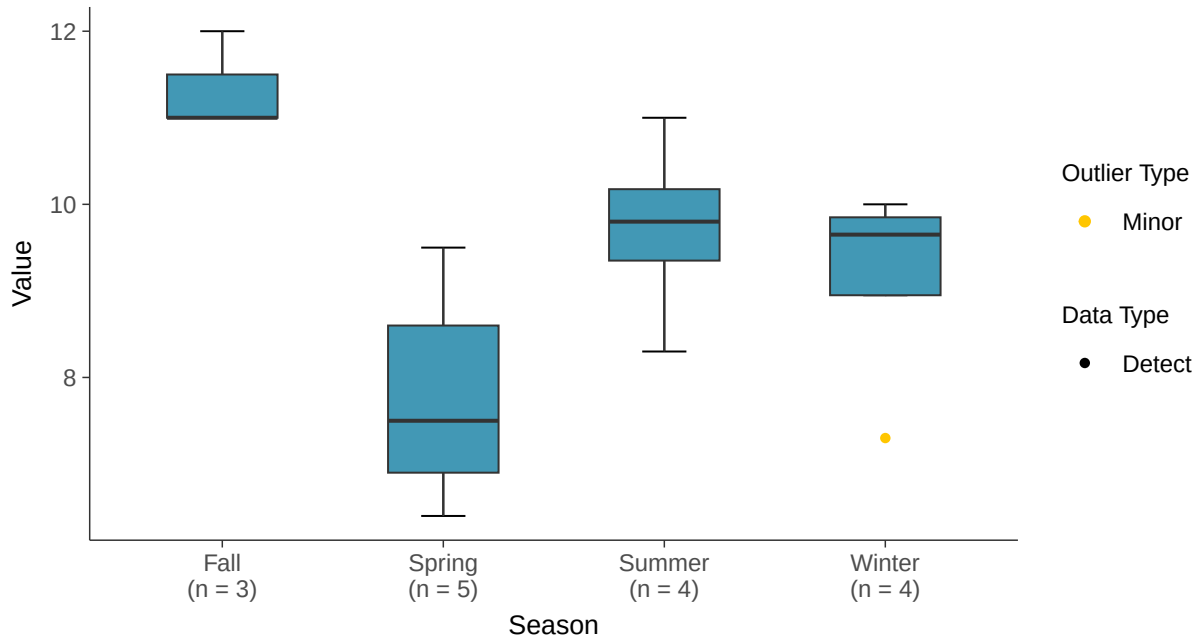
Boxplot

Boron, MW-06 (mg/L)



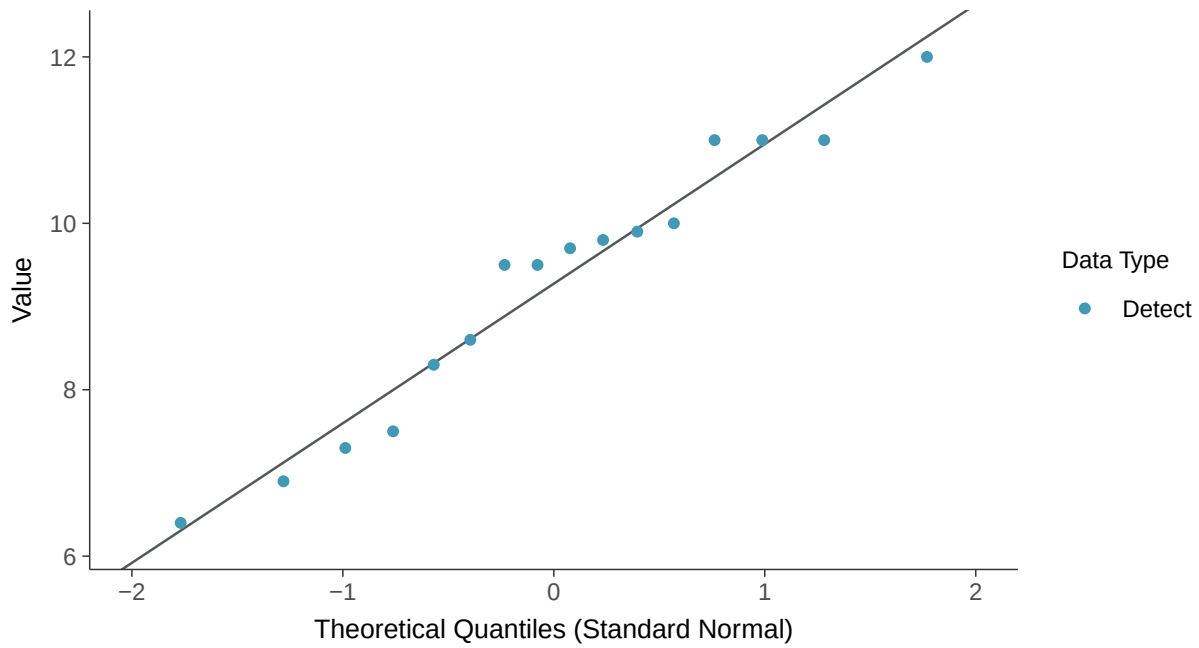
Boxplot by Season

Boron, MW-06 (mg/L)



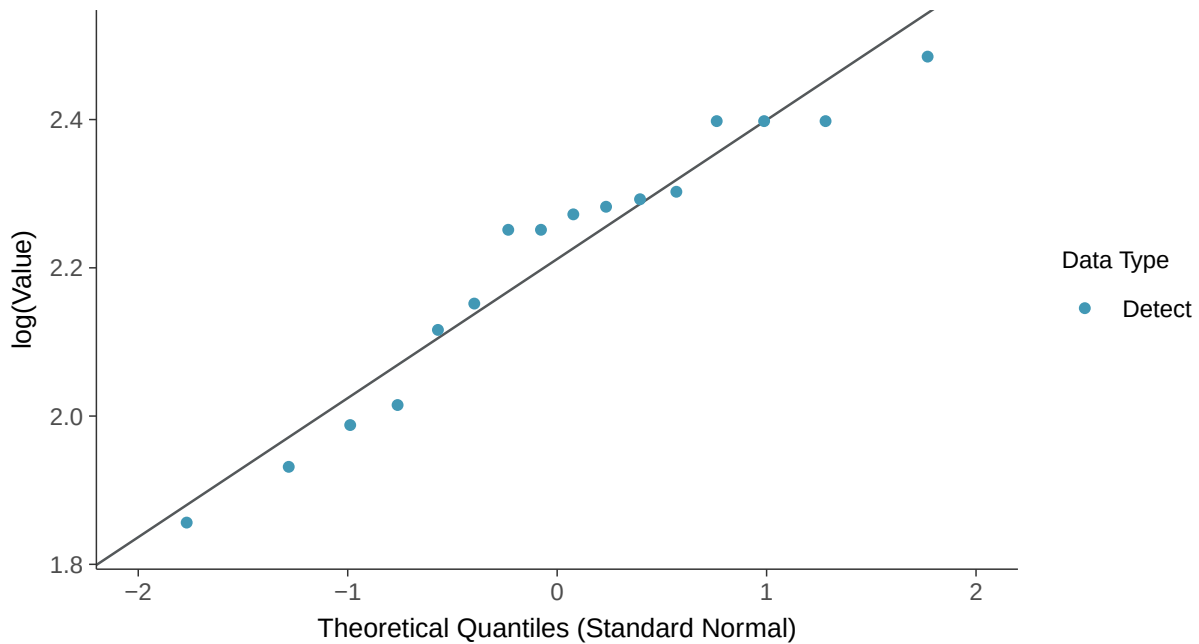
Normal Q-Q plot

Boron, MW-06 (mg/L)

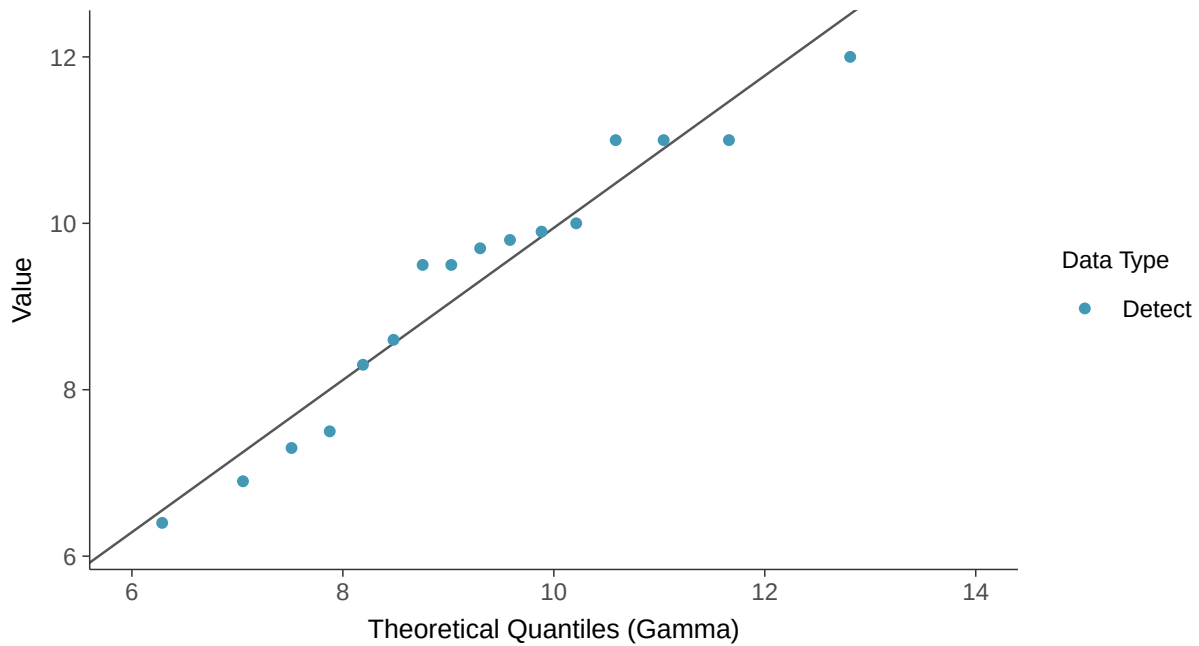


Lognormal Q-Q plot

Boron, MW-06 (mg/L)

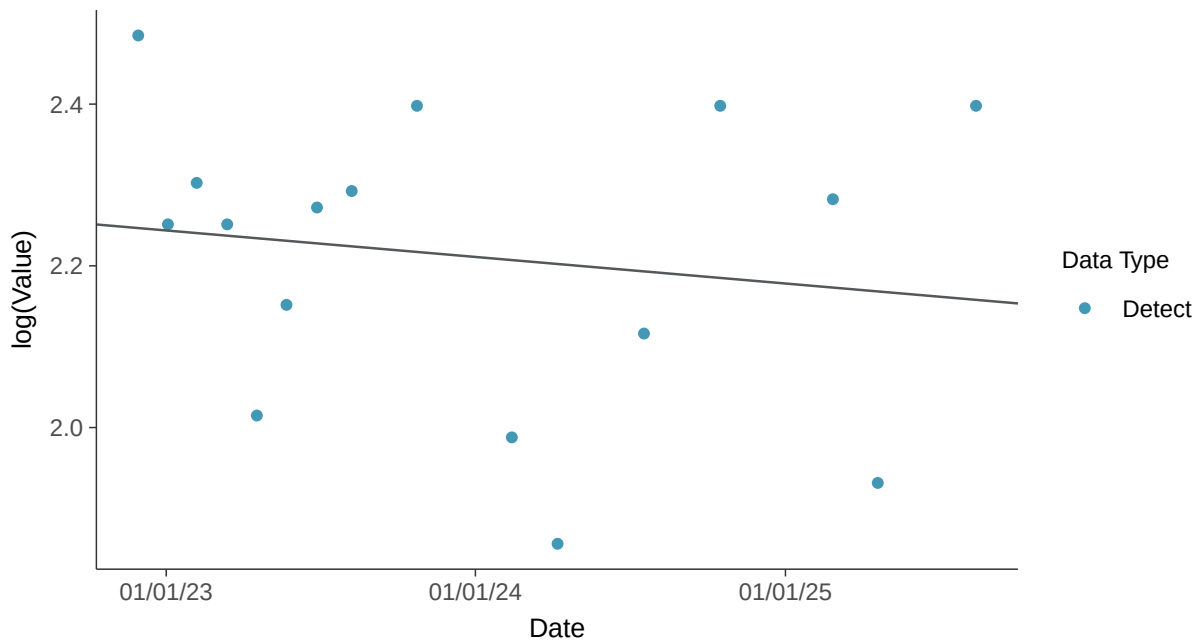


Gamma Q-Q plot
Boron, MW-06 (mg/L)



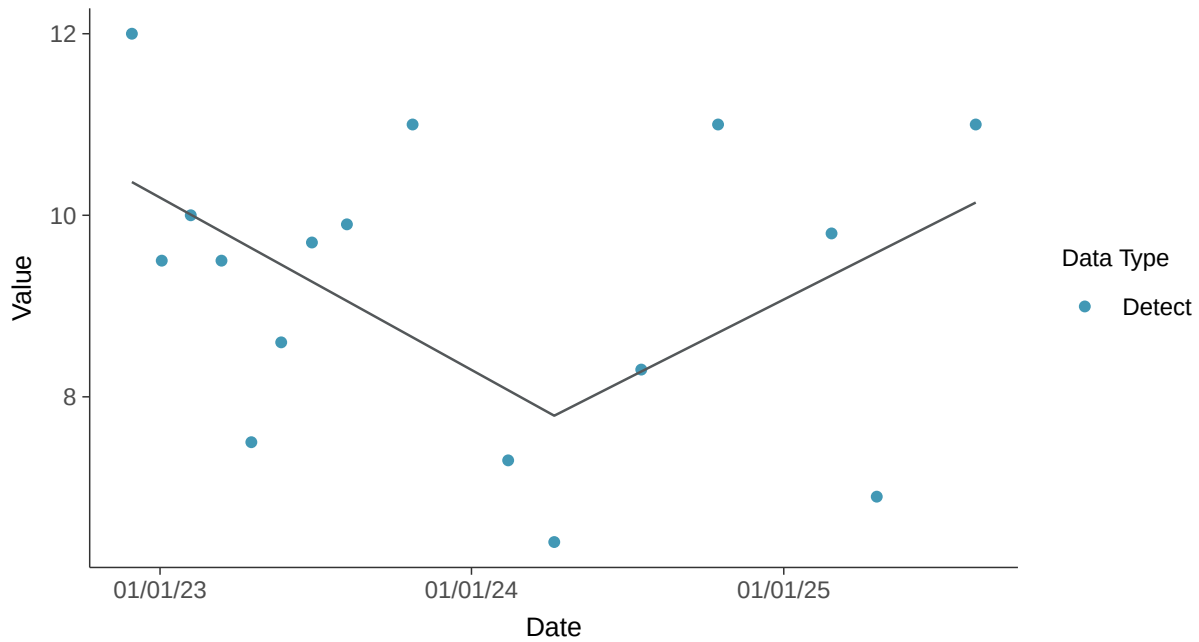
Trend Regression: Lognormal MLE

Boron, MW-06 (mg/L)



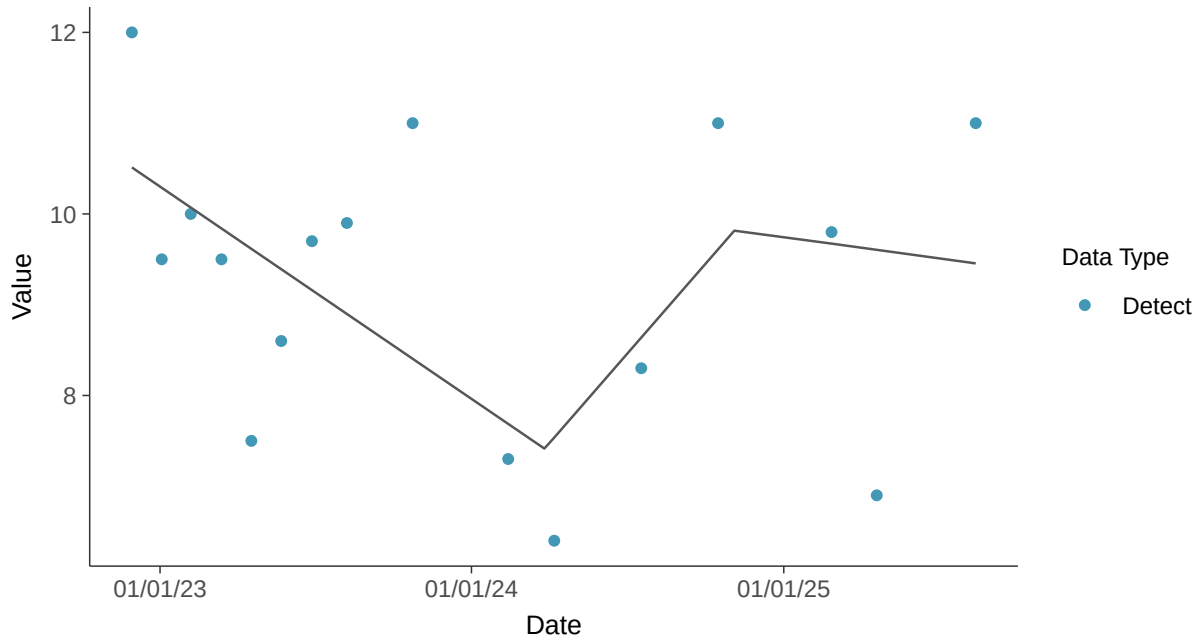
Trend Regression: Piecewise Linear-Linear

Boron, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-06 (mg/L)

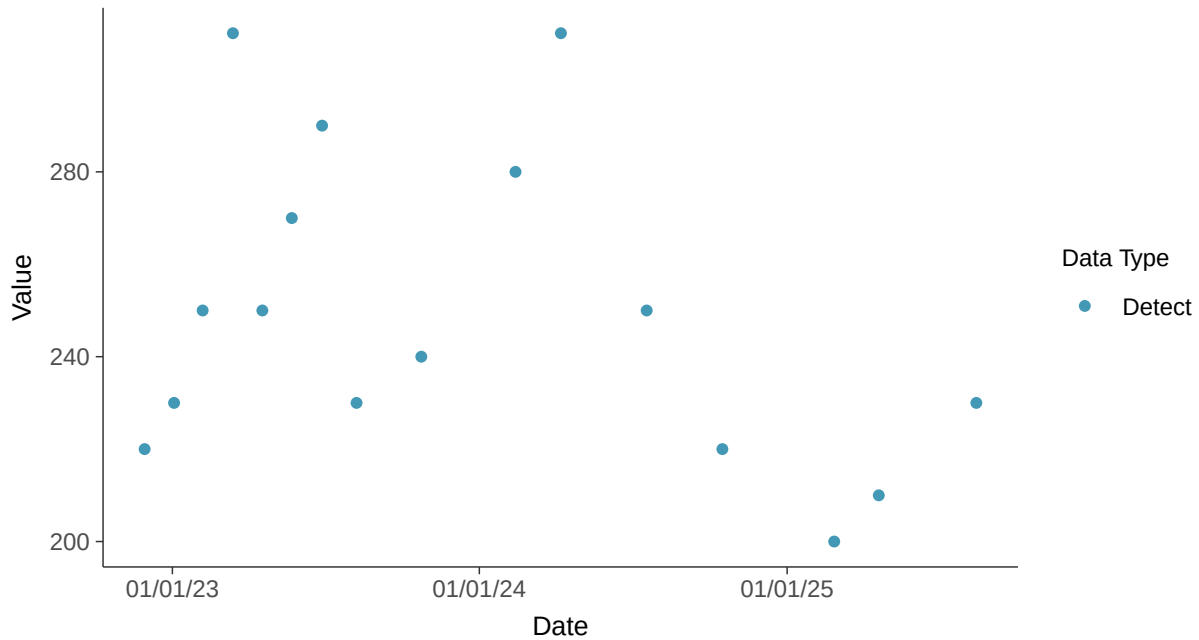


Appendix III: Calcium, MW-06

ID: 16_1_3_107

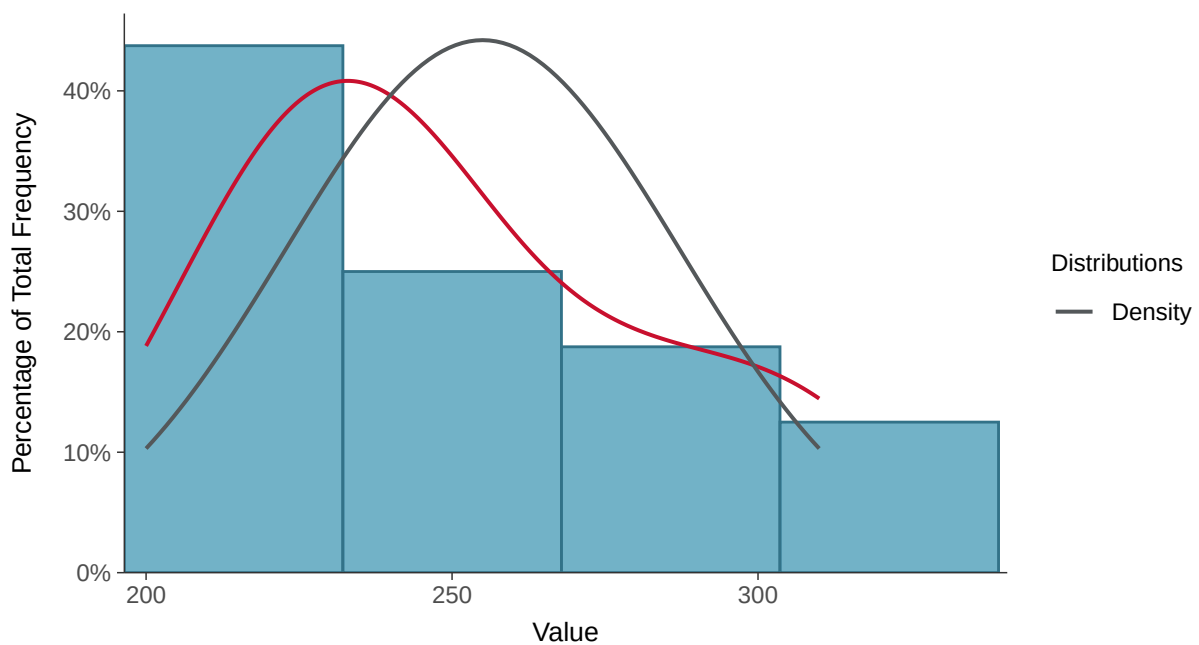
Scatter Plot

Calcium, MW-06 (mg/L)



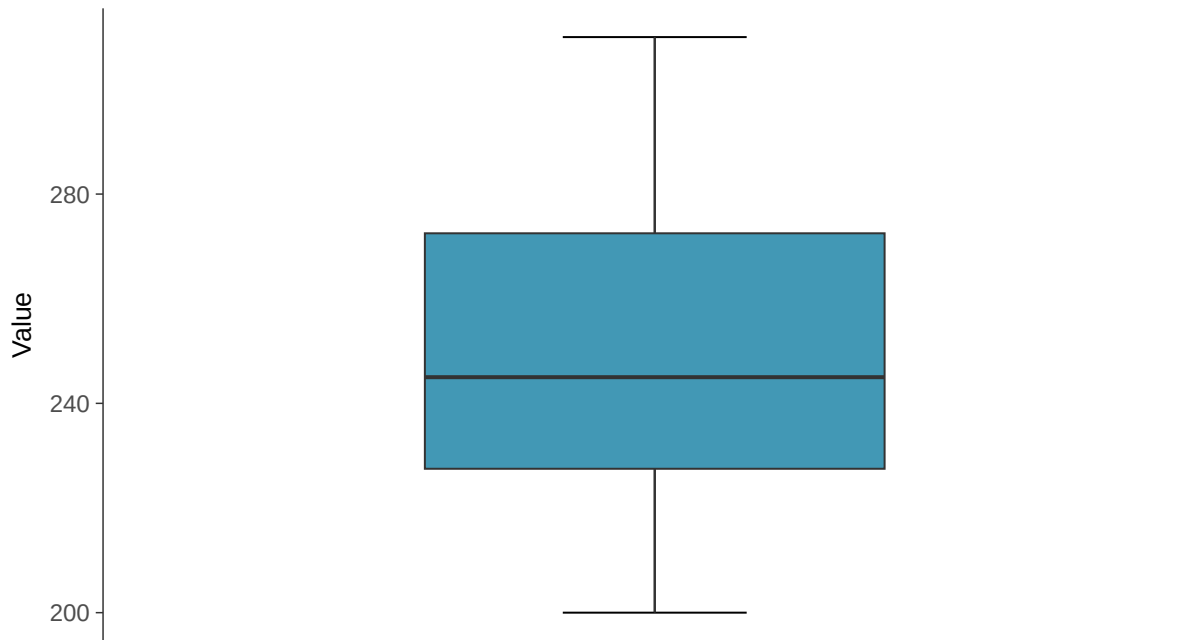
Histogram

Calcium, MW-06 (mg/L)



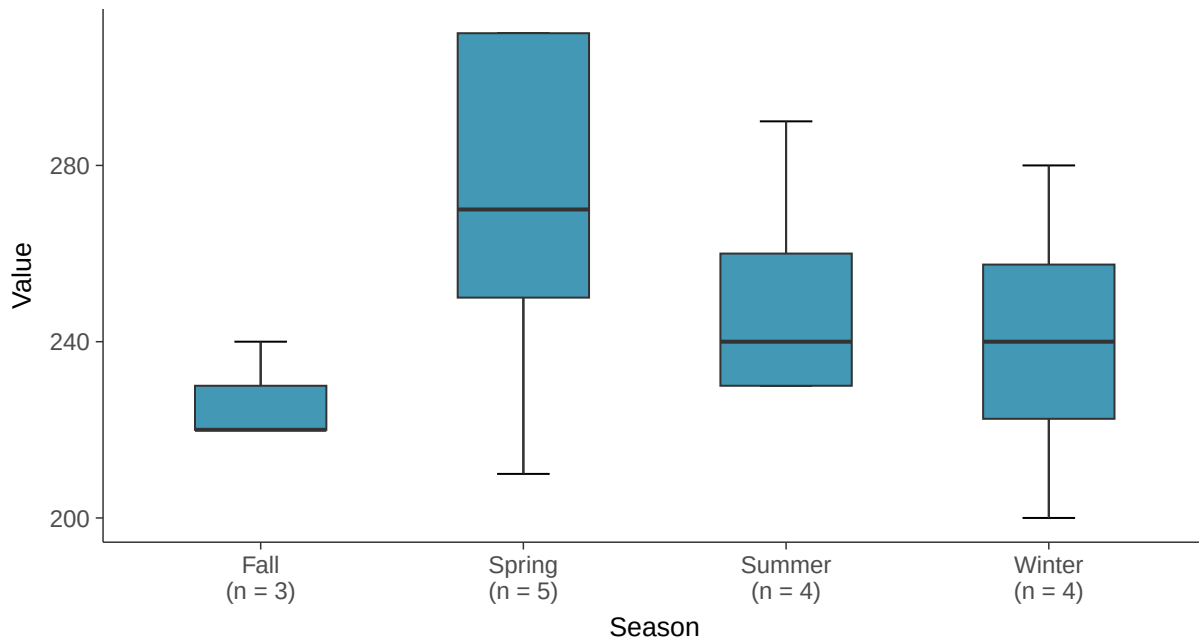
Boxplot

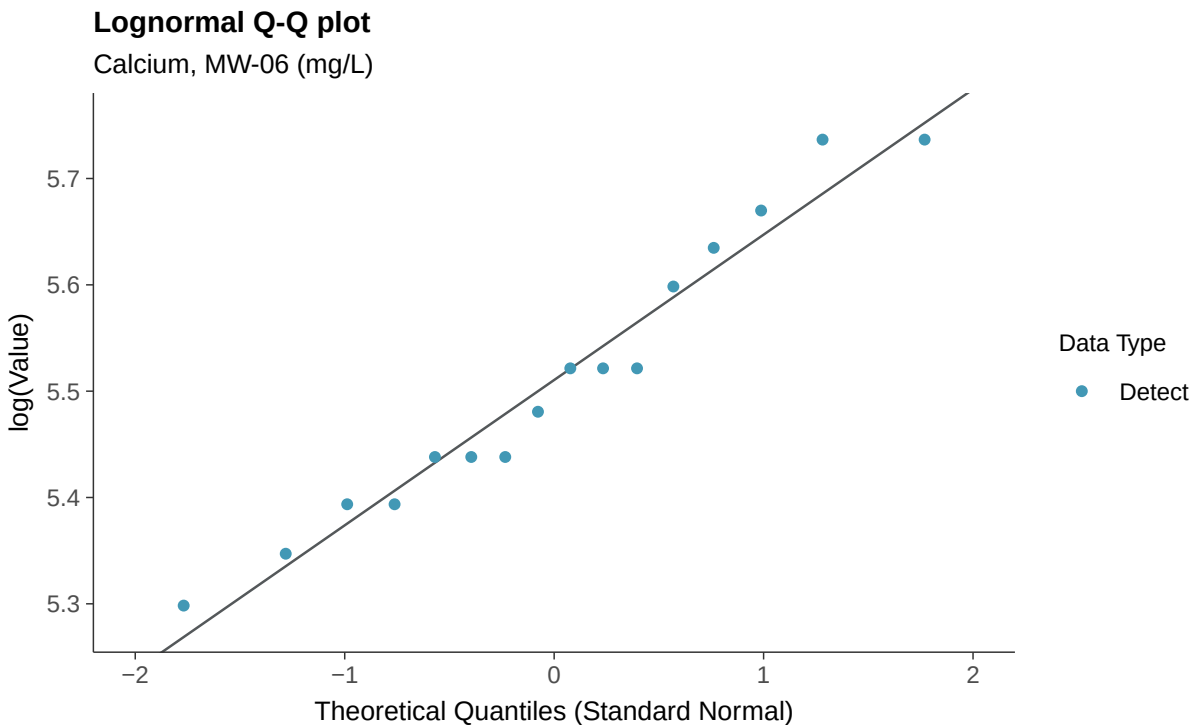
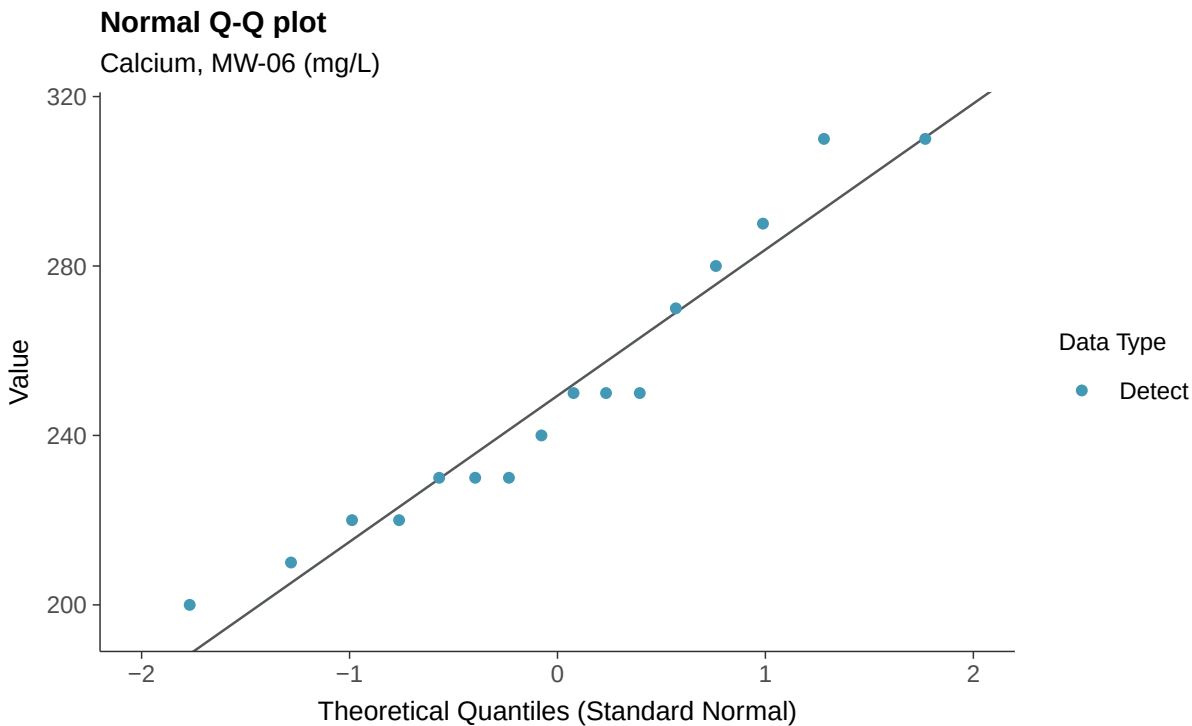
Calcium, MW-06 (mg/L)



Boxplot by Season

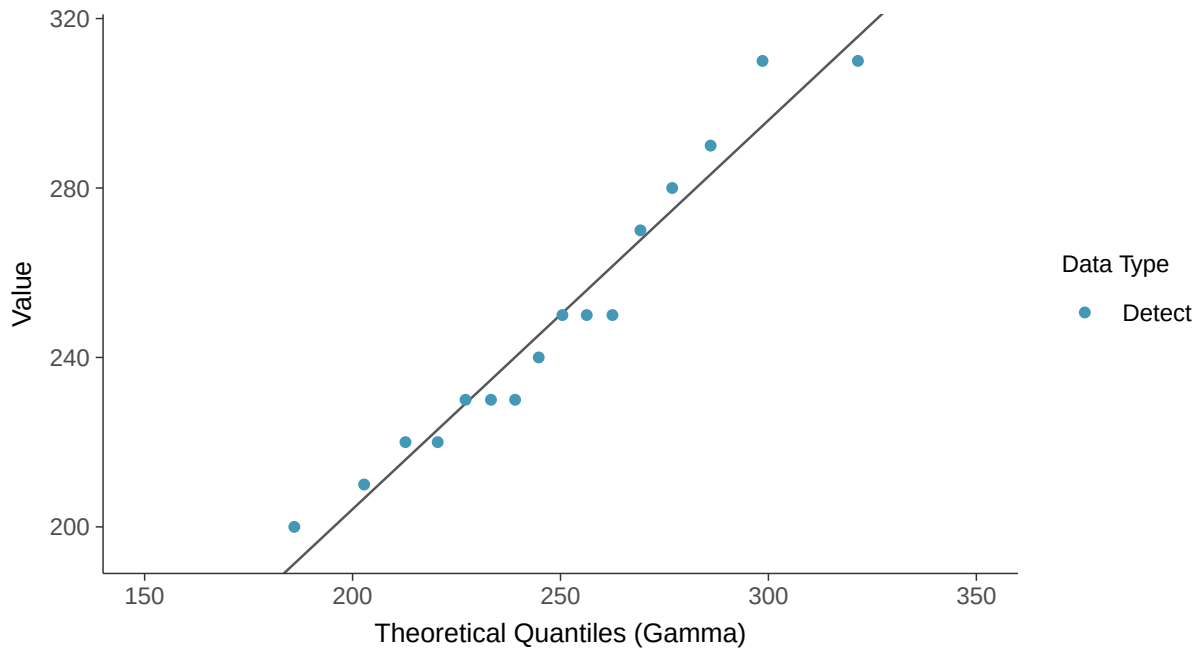
Calcium, MW-06 (mg/L)





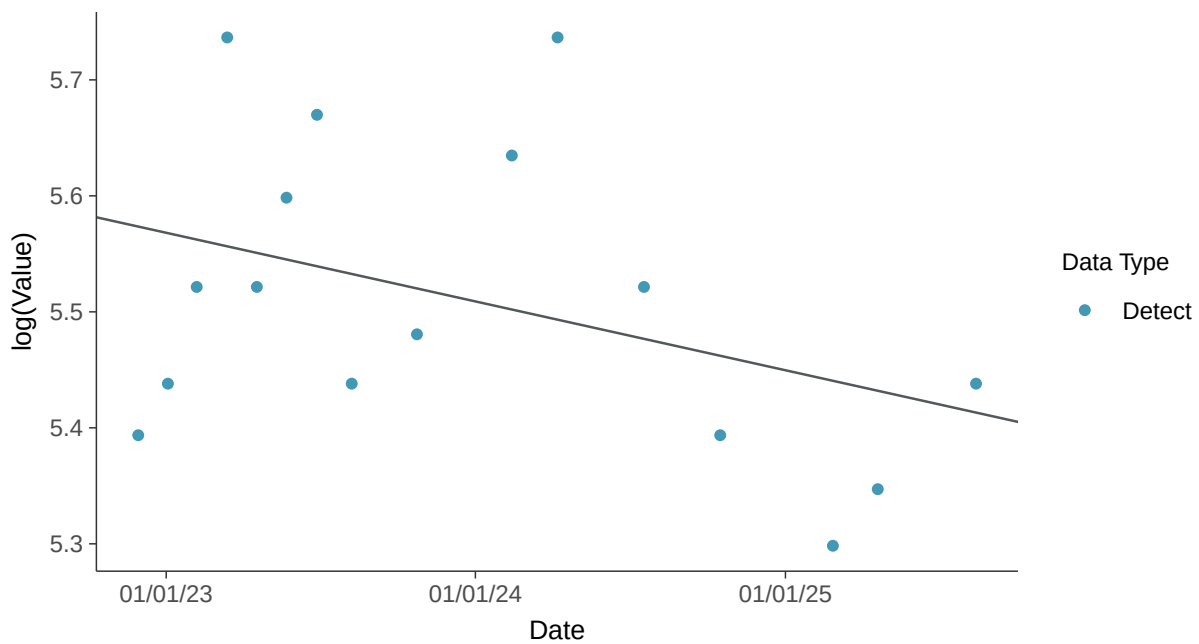
Gamma Q-Q plot

Calcium, MW-06 (mg/L)



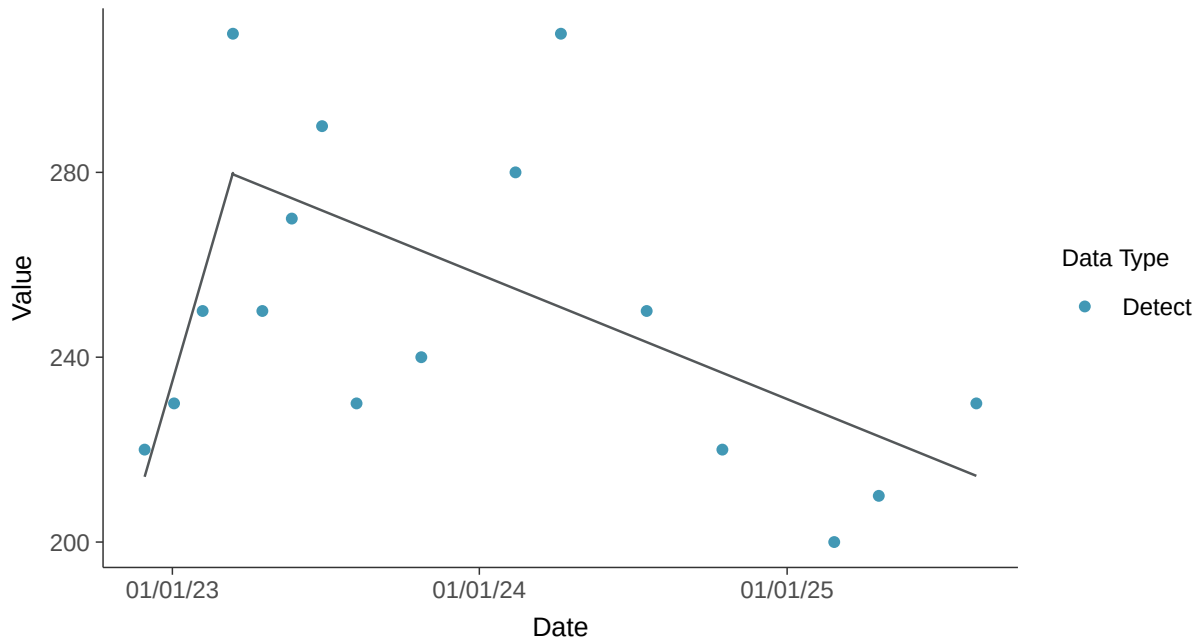
Trend Regression: Lognormal MLE

Calcium, MW-06 (mg/L)



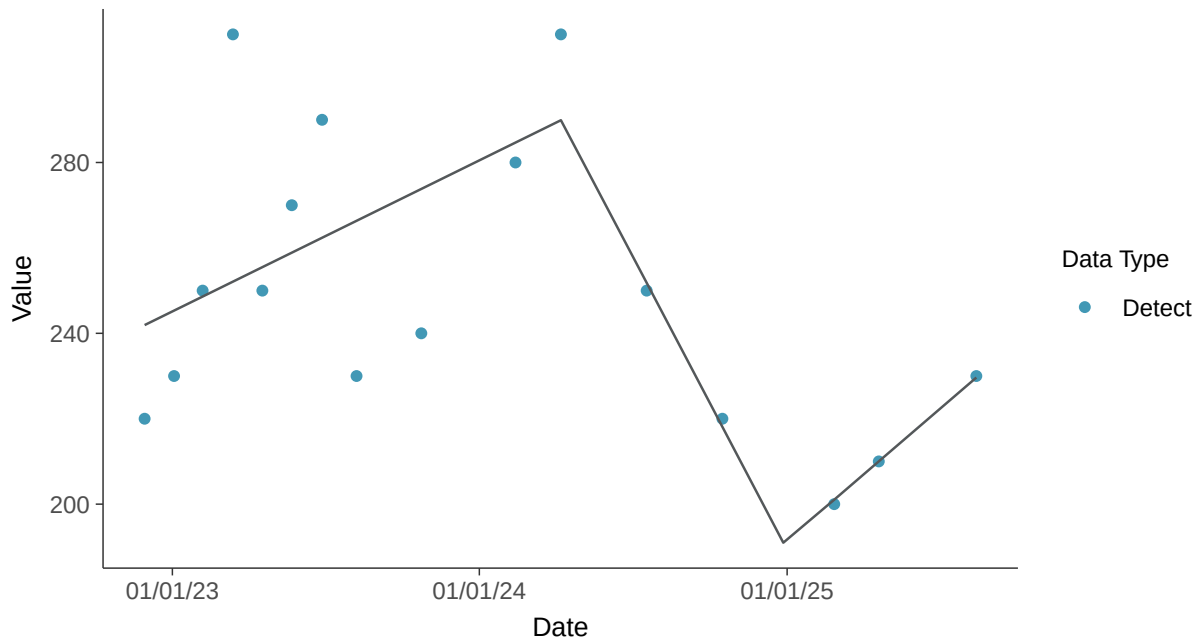
Trend Regression: Piecewise Linear-Linear

Calcium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-06 (mg/L)

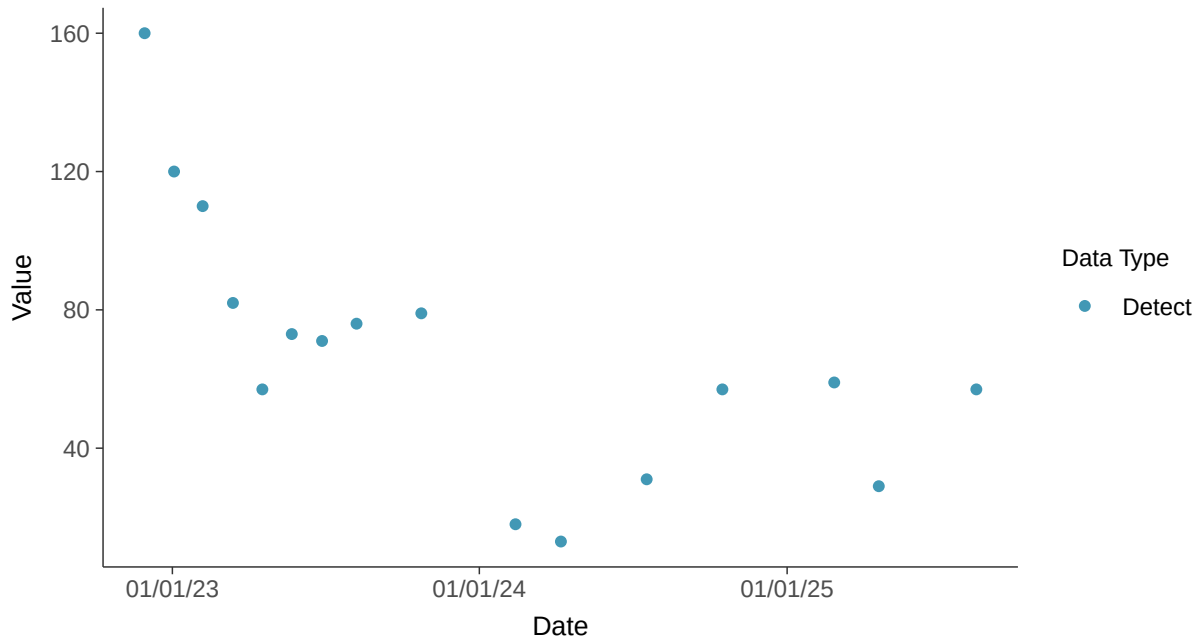


Appendix III: Chloride (as Cl), MW-06

ID: 16_1_3_108

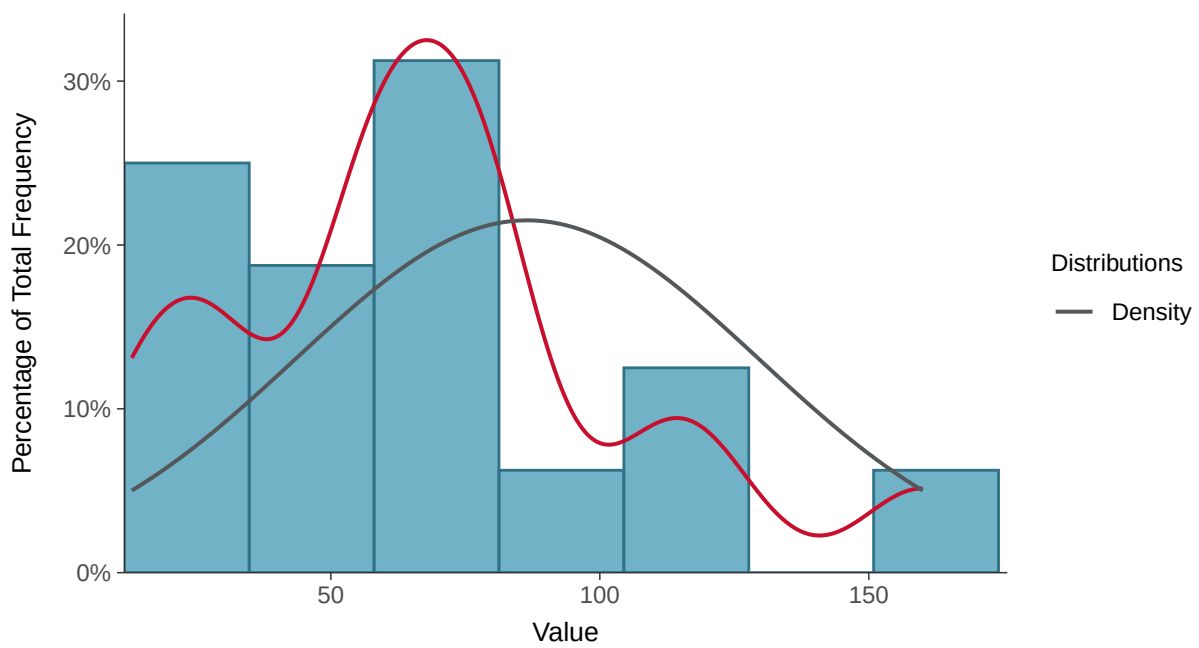
Scatter Plot

Chloride (as Cl), MW-06 (mg/L)



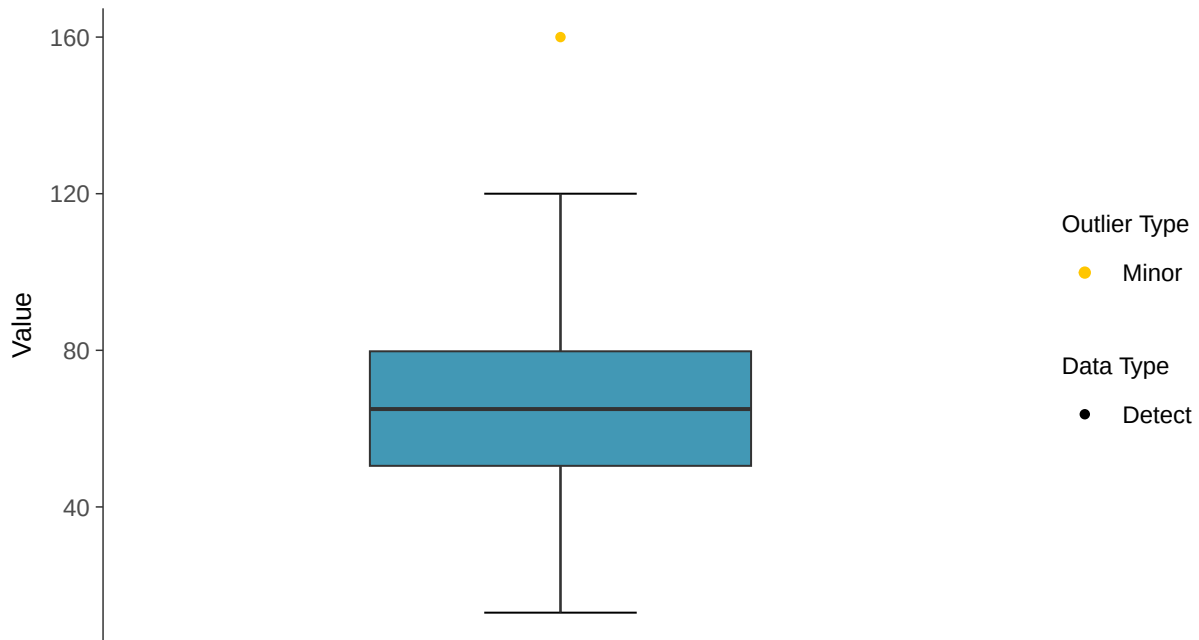
Histogram

Chloride (as Cl), MW-06 (mg/L)



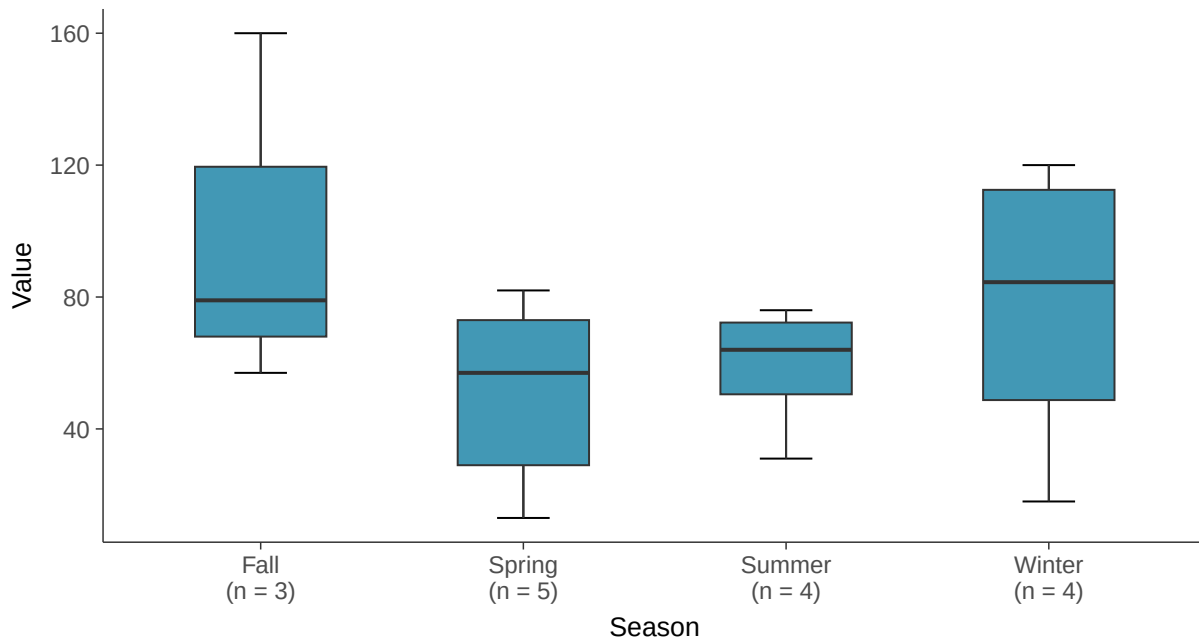
Boxplot

Chloride (as Cl), MW-06 (mg/L)



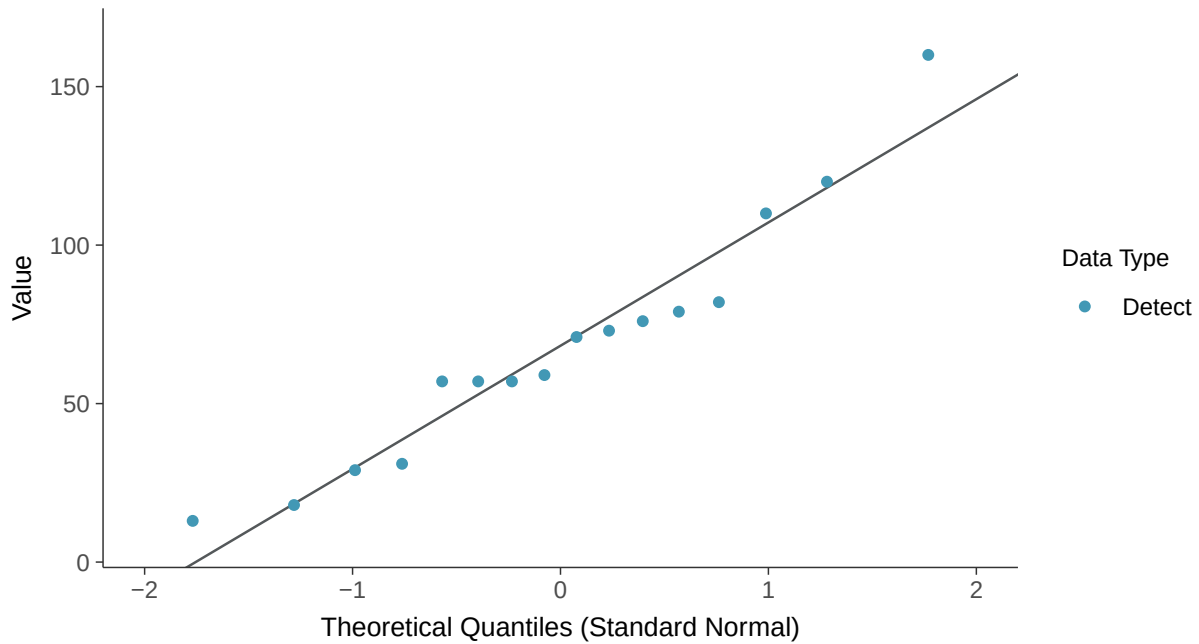
Boxplot by Season

Chloride (as Cl), MW-06 (mg/L)



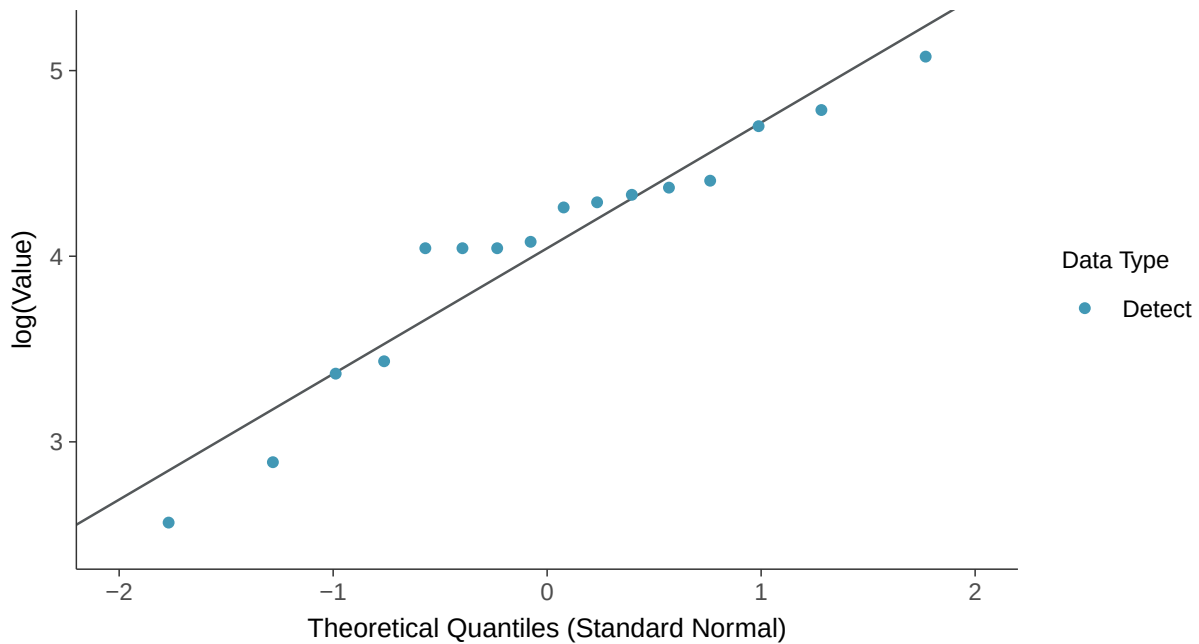
Normal Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



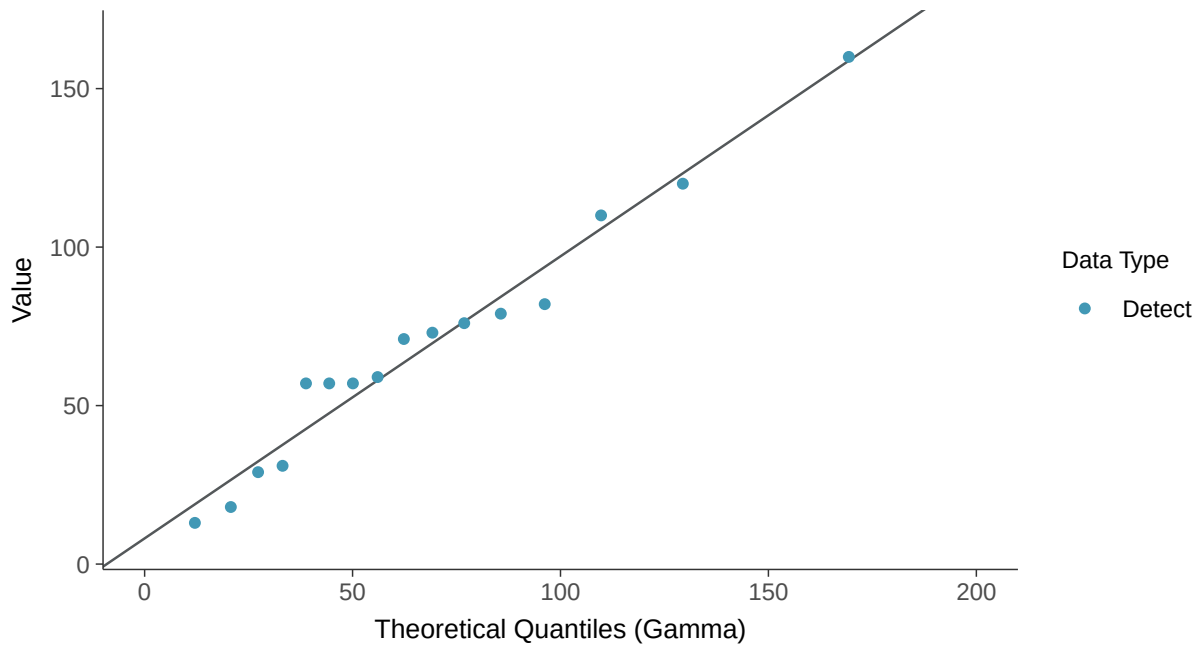
Lognormal Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



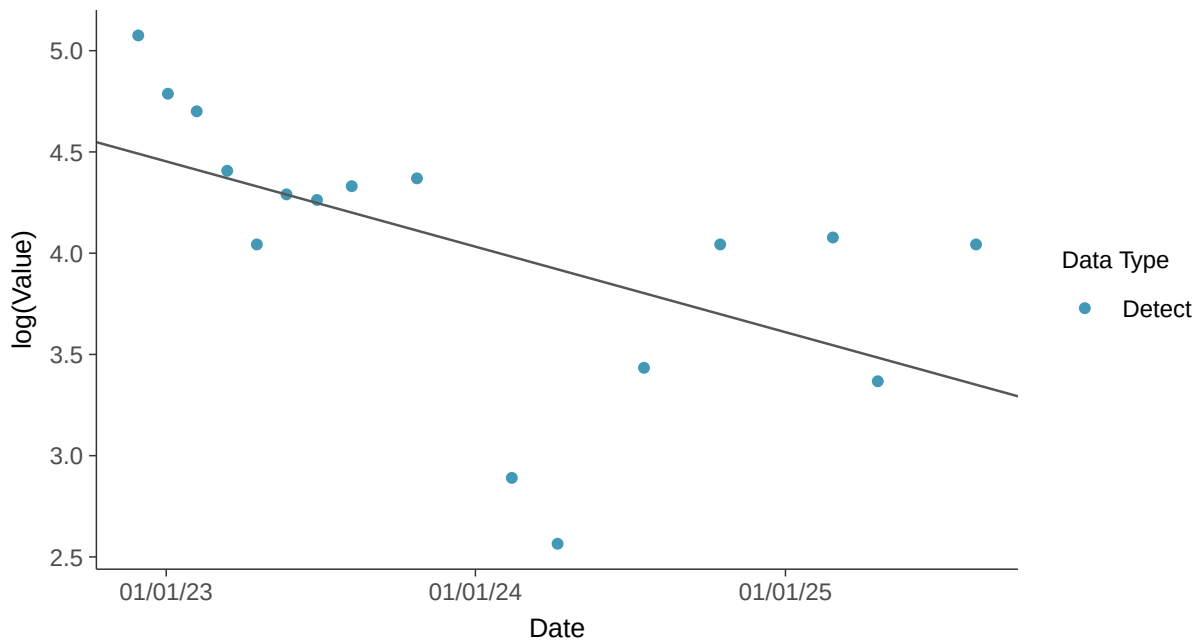
Gamma Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



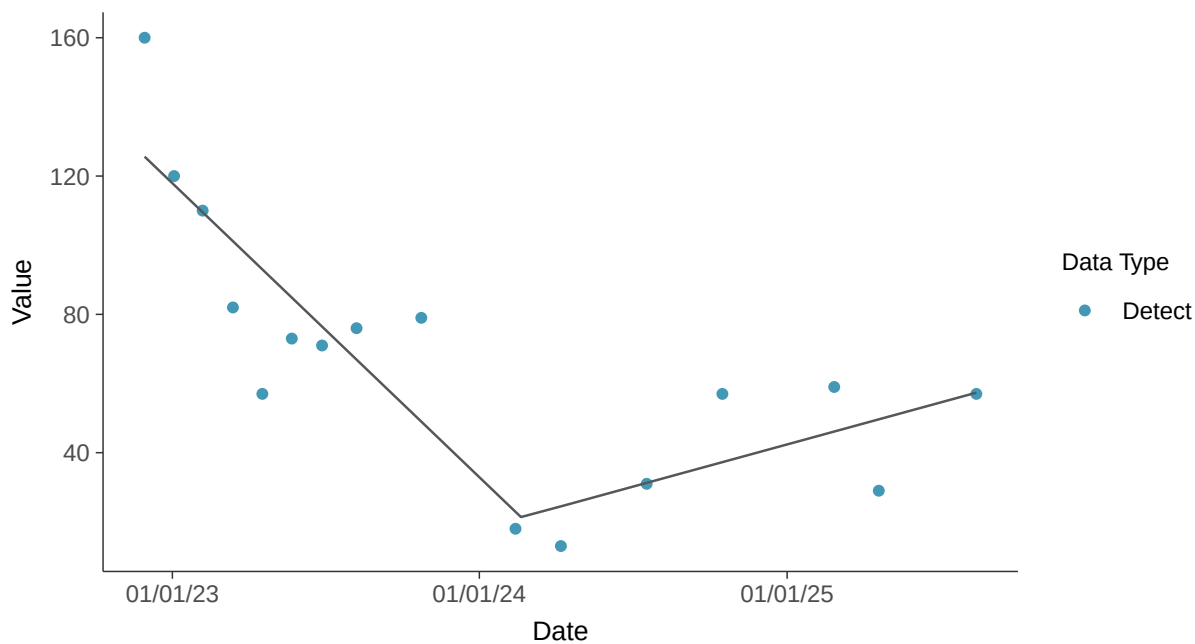
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-06 (mg/L)



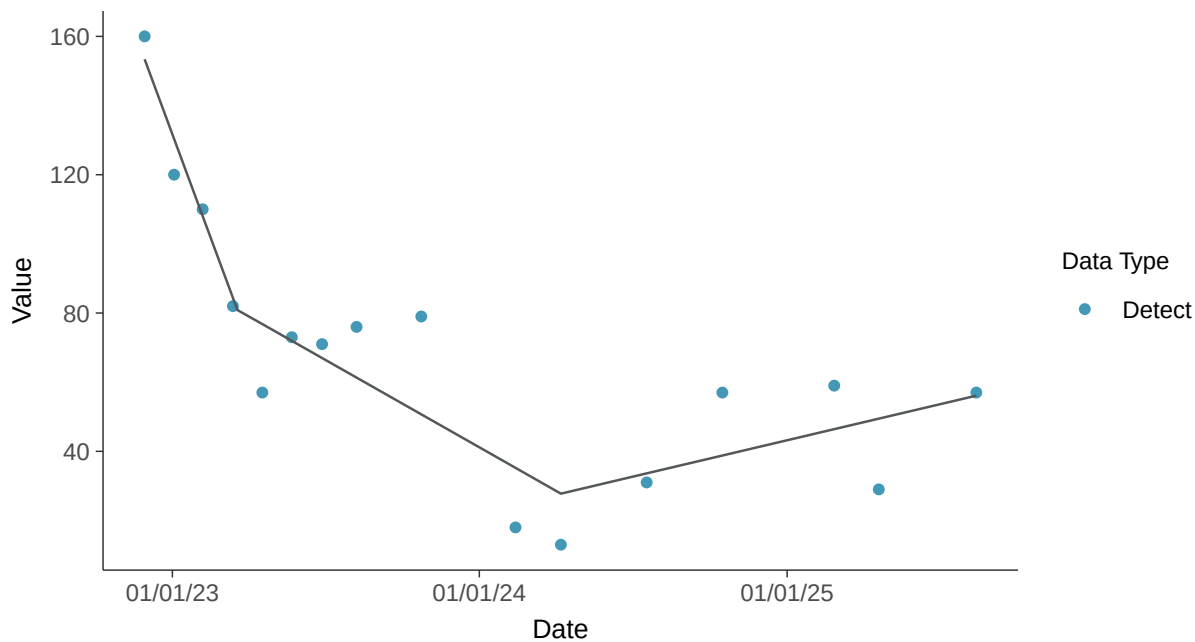
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-06 (mg/L)



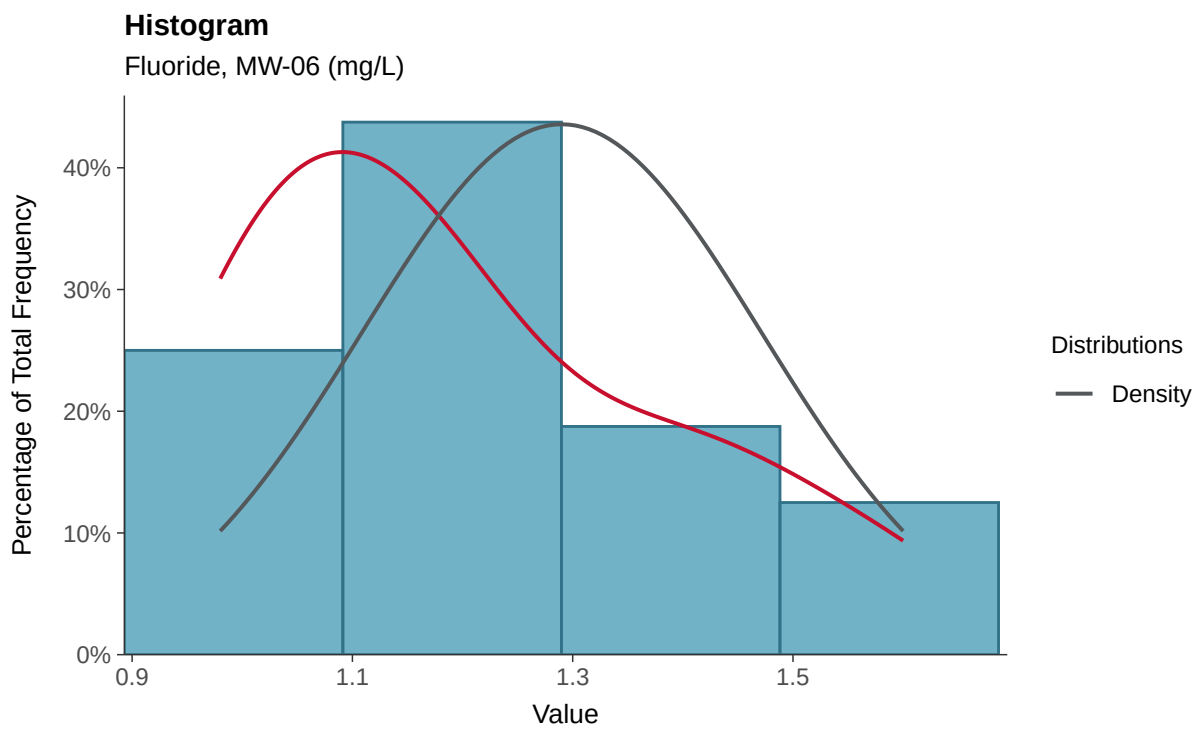
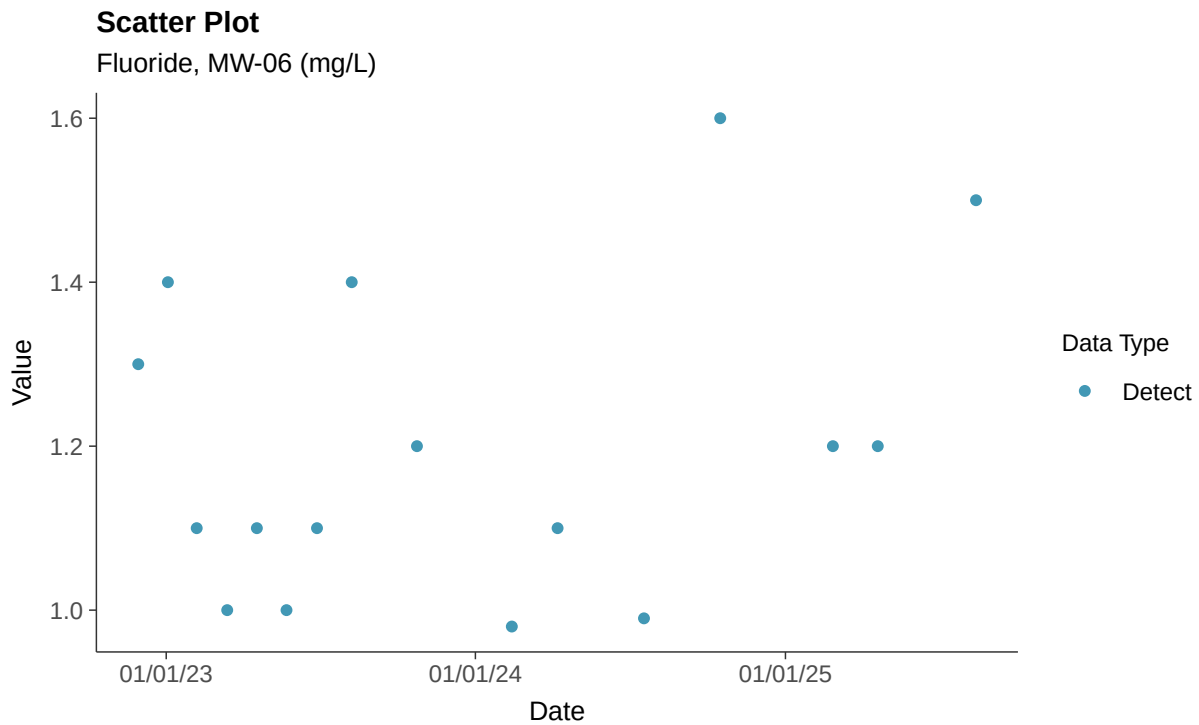
Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-06 (mg/L)



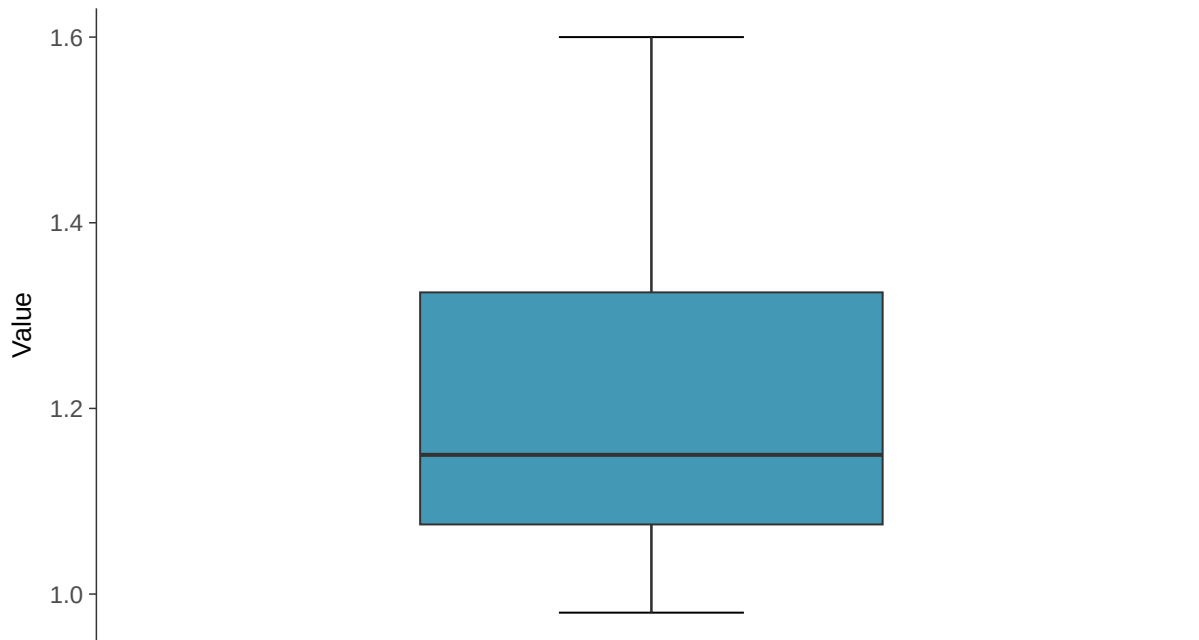
Appendix III: Fluoride, MW-06

ID: 16_1_3_112



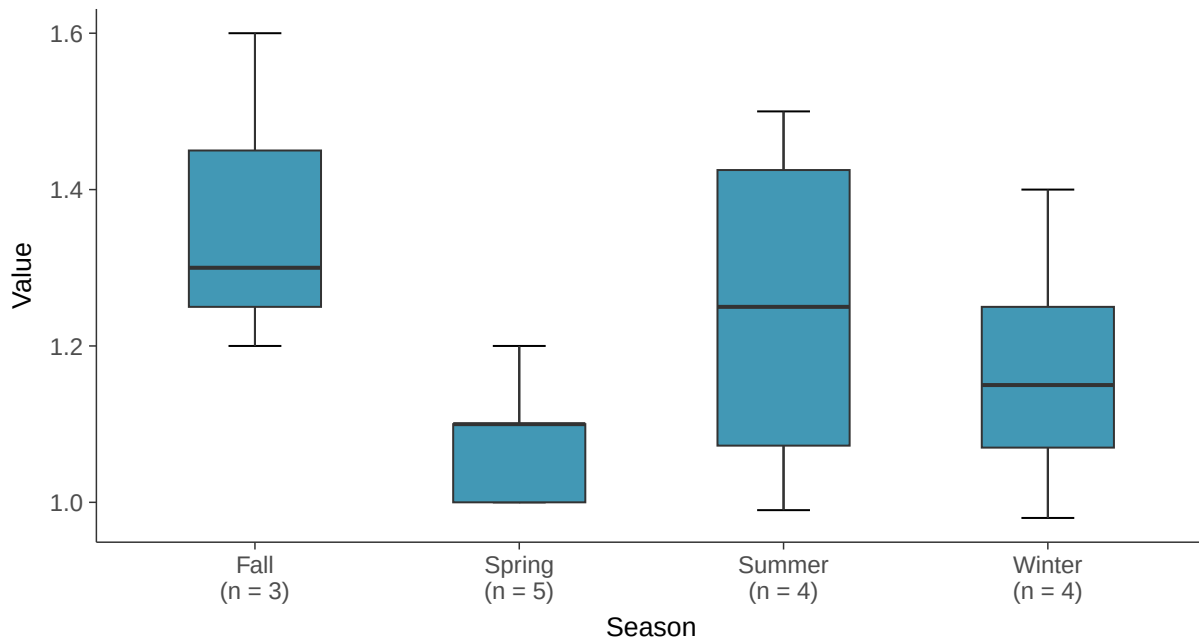
Boxplot

Fluoride, MW-06 (mg/L)



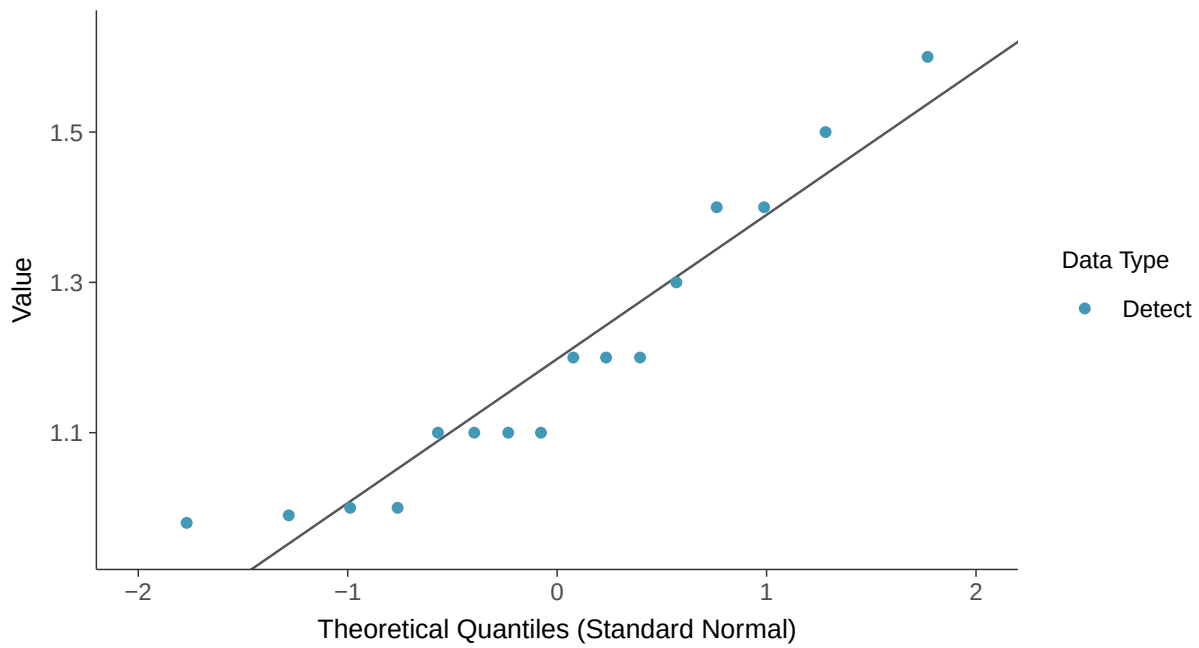
Boxplot by Season

Fluoride, MW-06 (mg/L)



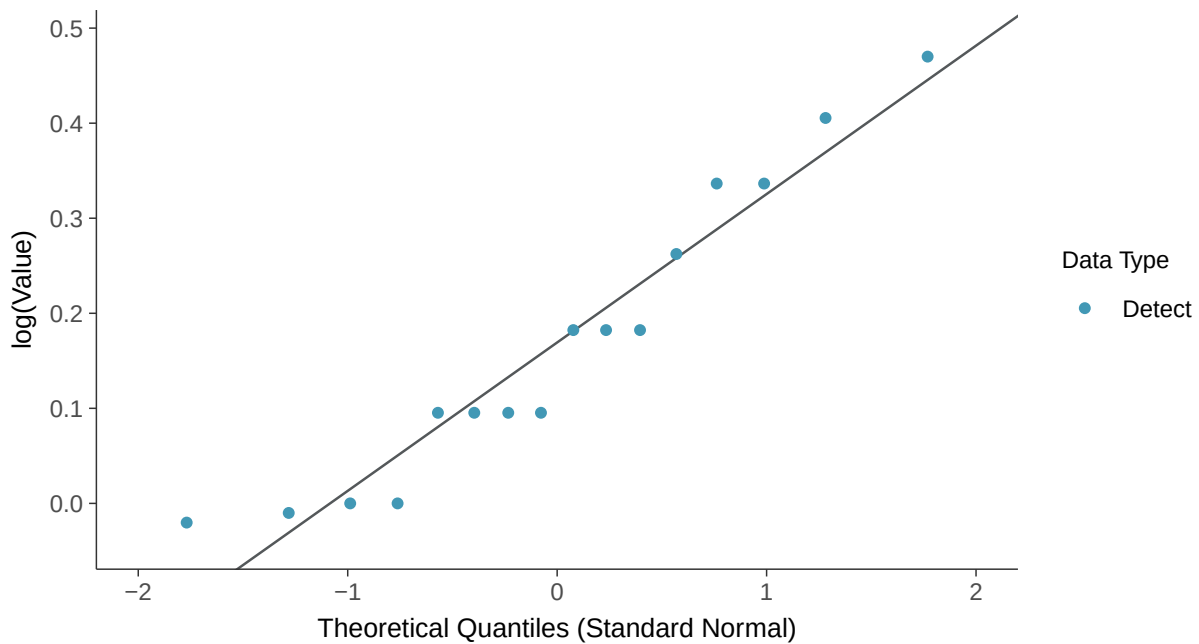
Normal Q-Q plot

Fluoride, MW-06 (mg/L)



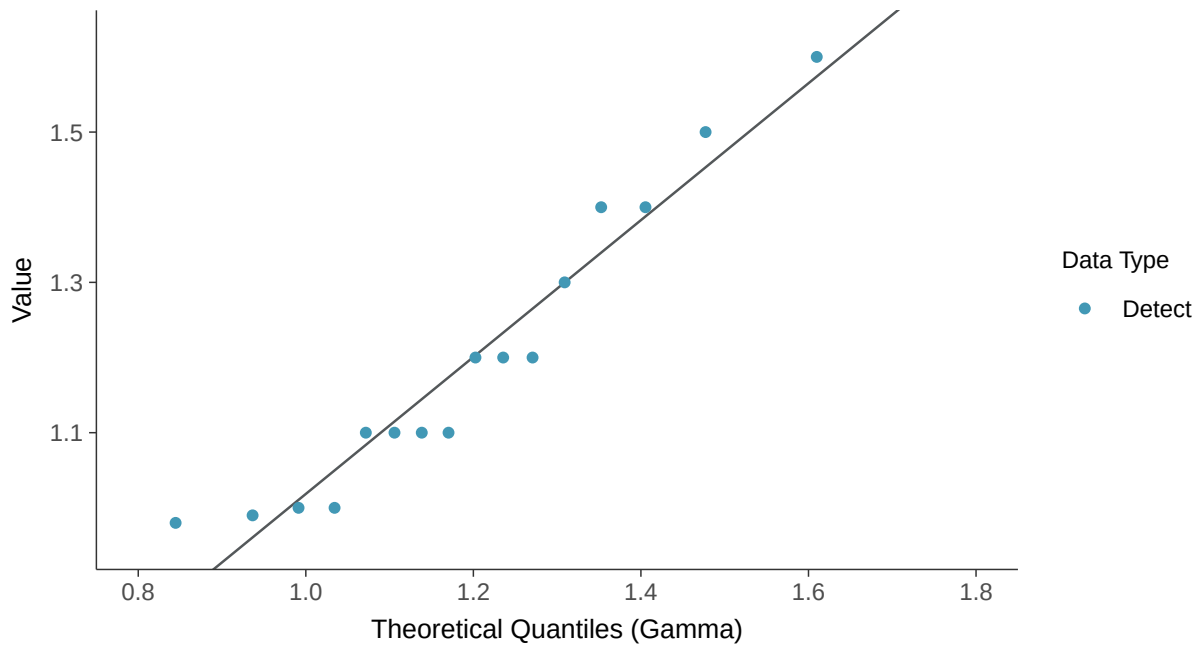
Lognormal Q-Q plot

Fluoride, MW-06 (mg/L)



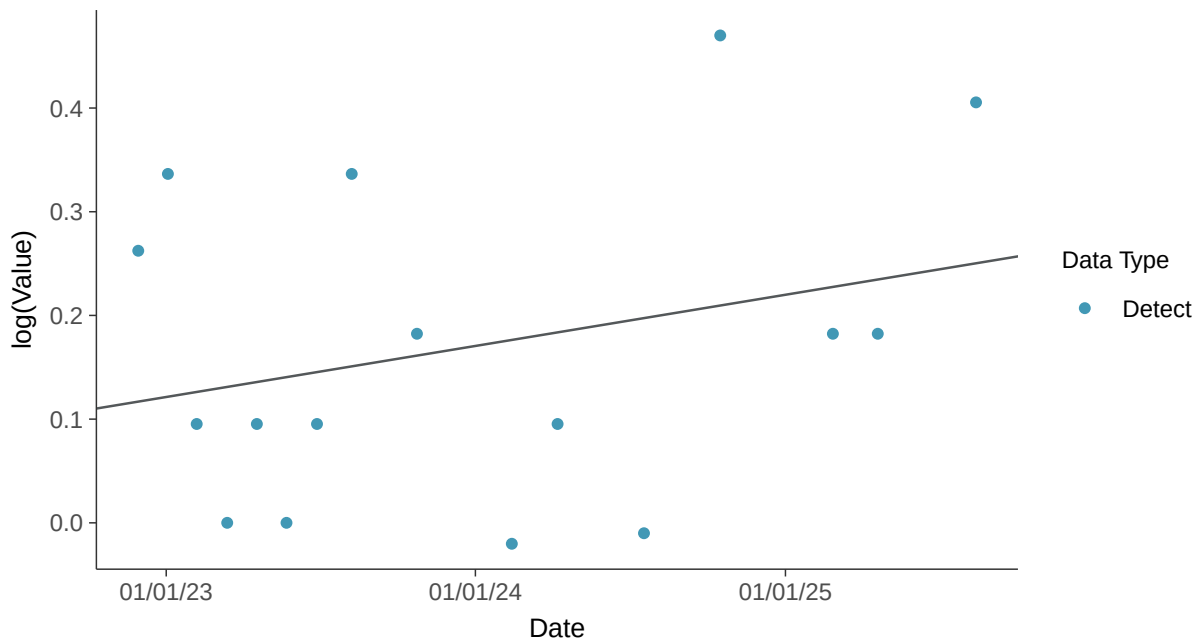
Gamma Q-Q plot

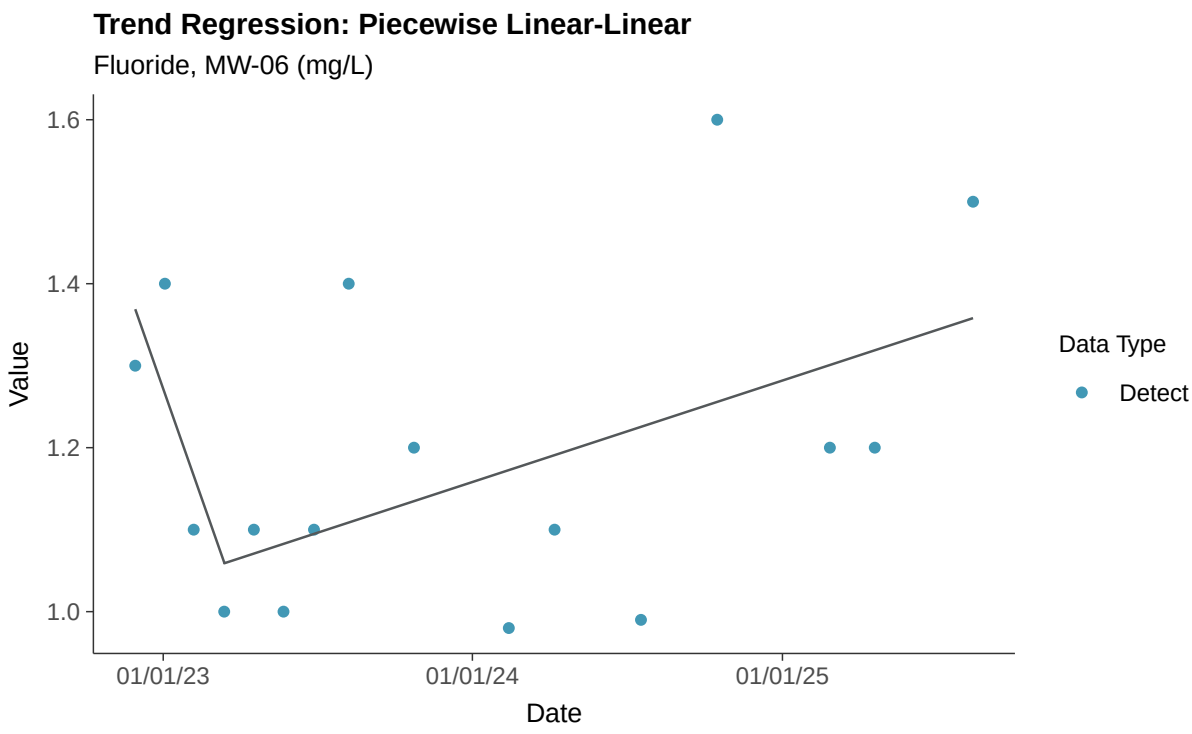
Fluoride, MW-06 (mg/L)



Trend Regression: Lognormal MLE

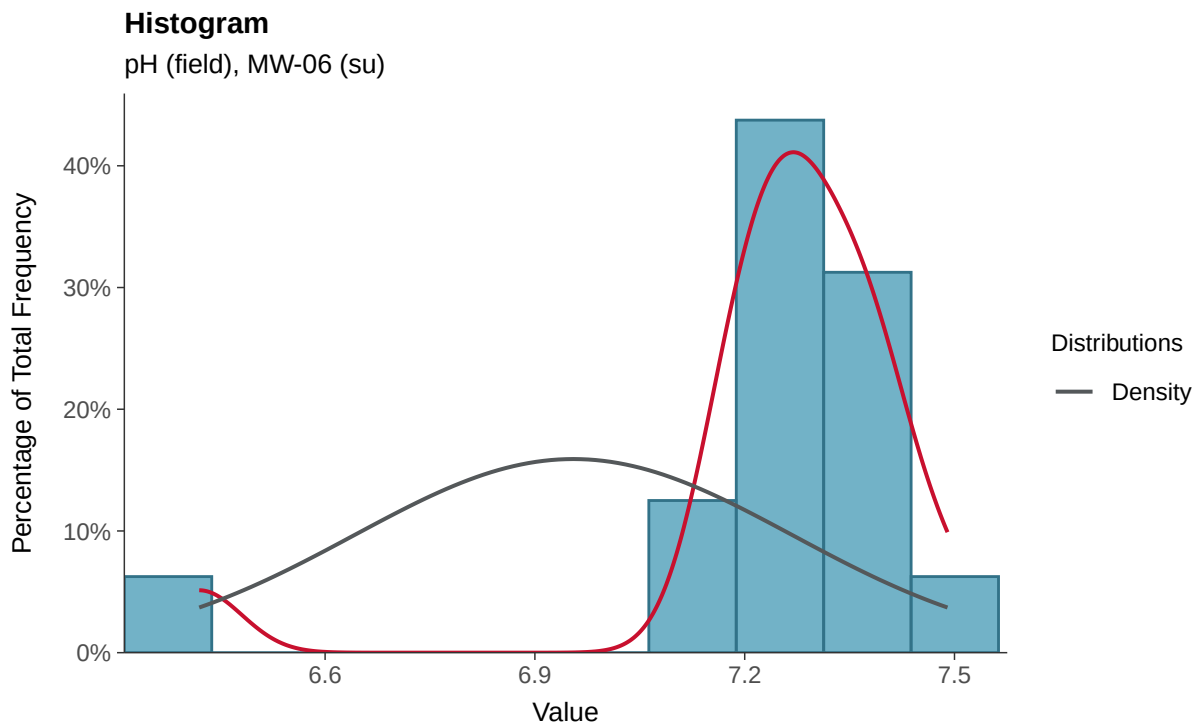
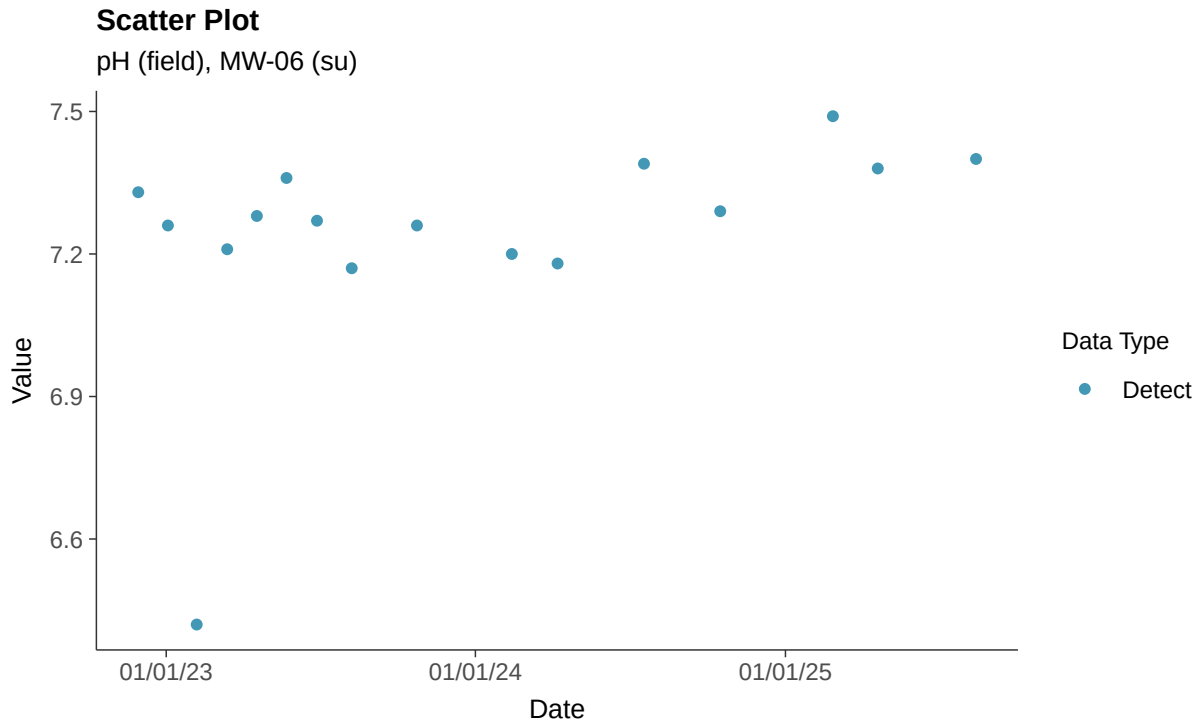
Fluoride, MW-06 (mg/L)





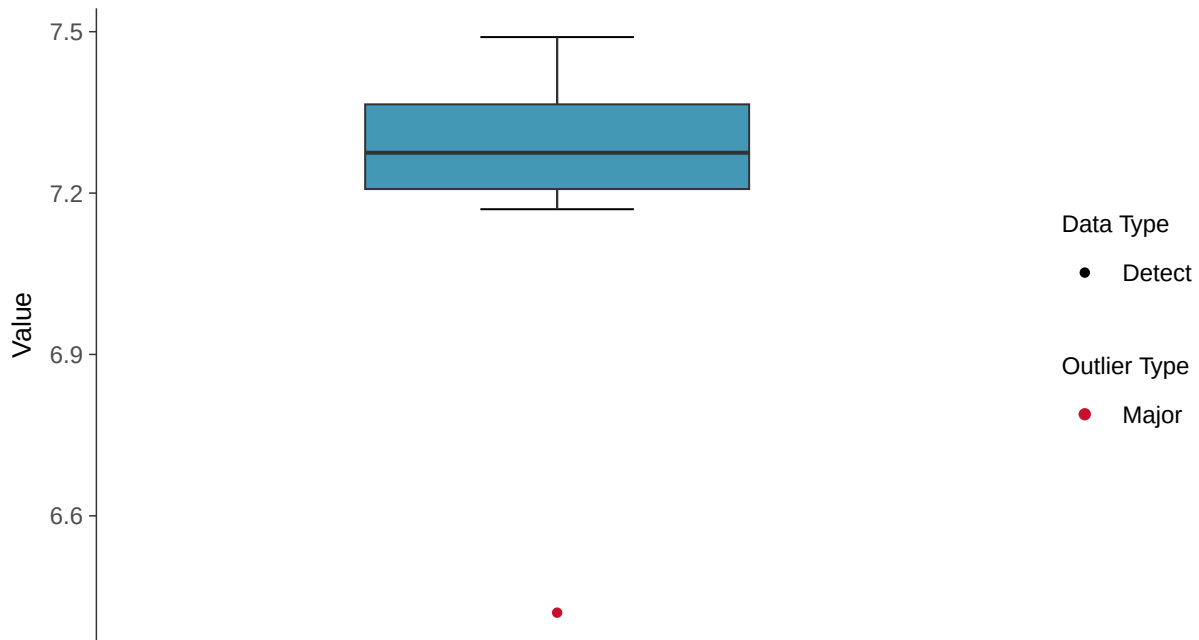
Appendix III: pH (field), MW-06

ID: 16_1_3_120



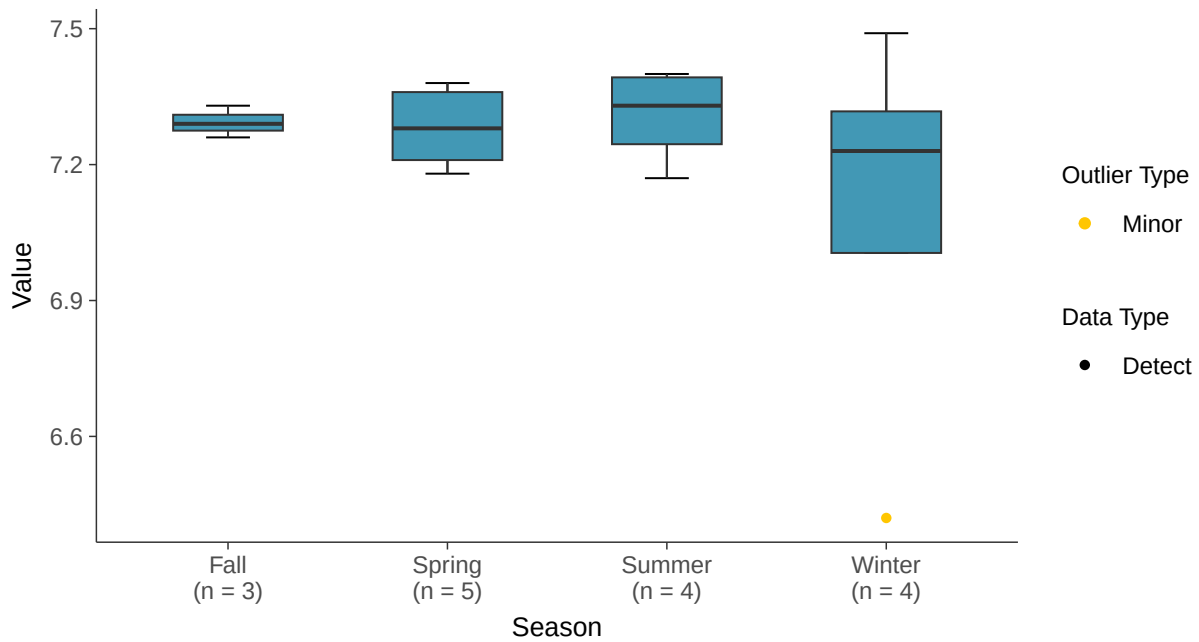
Boxplot

pH (field), MW-06 (su)



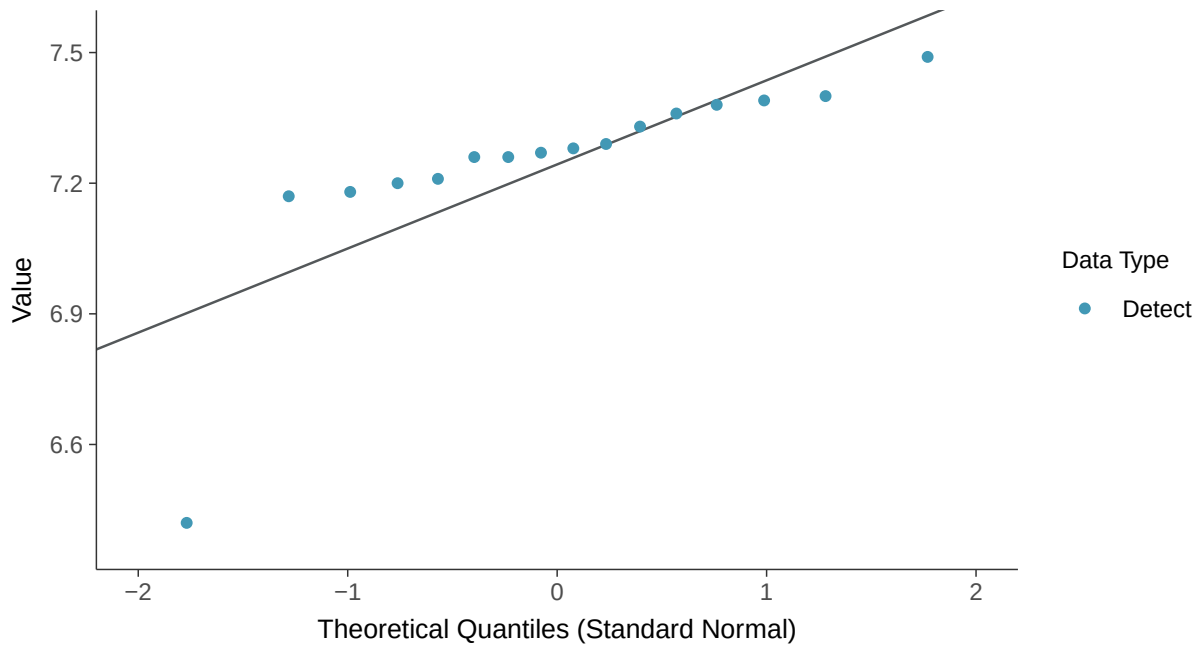
Boxplot by Season

pH (field), MW-06 (su)



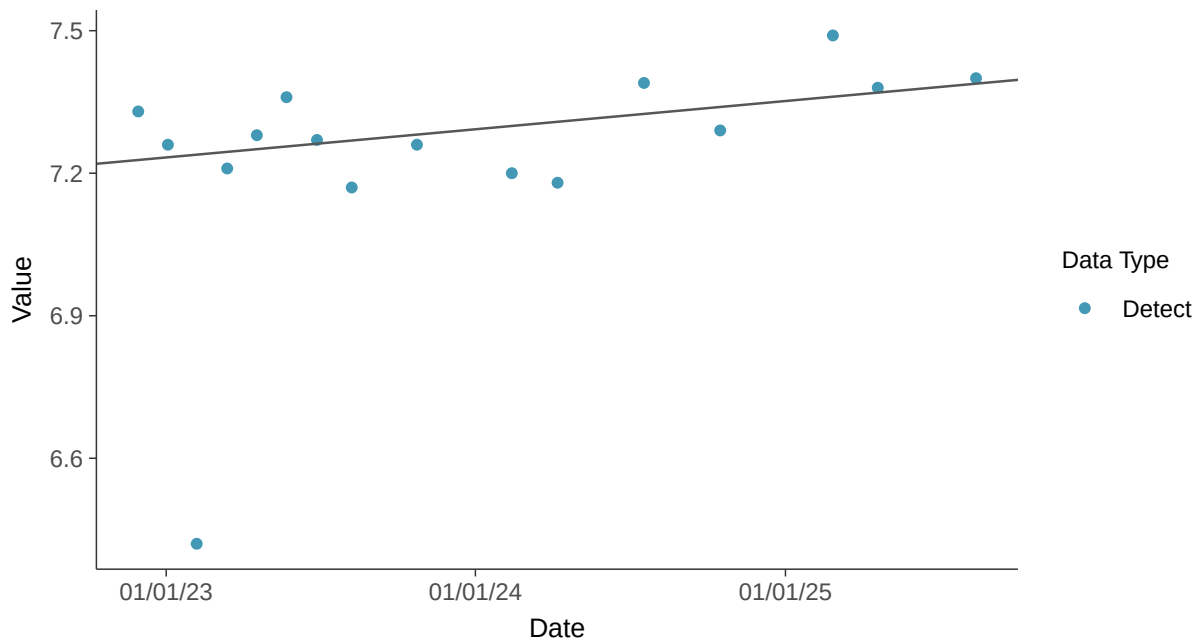
Normal Q-Q plot

pH (field), MW-06 (su)



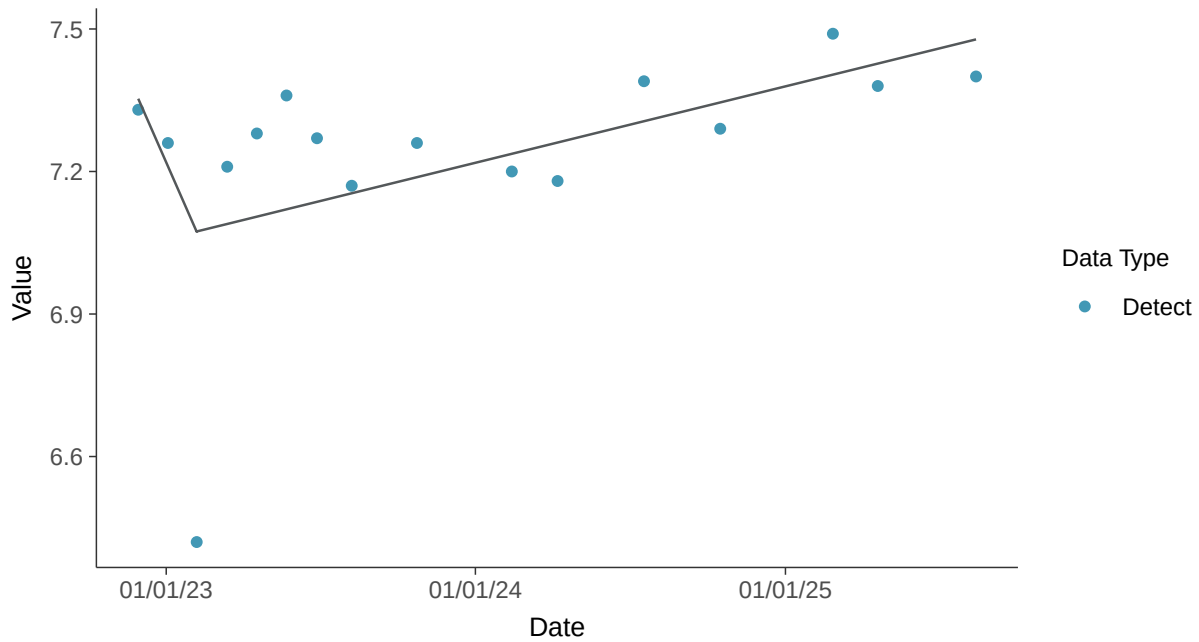
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-06 (su)



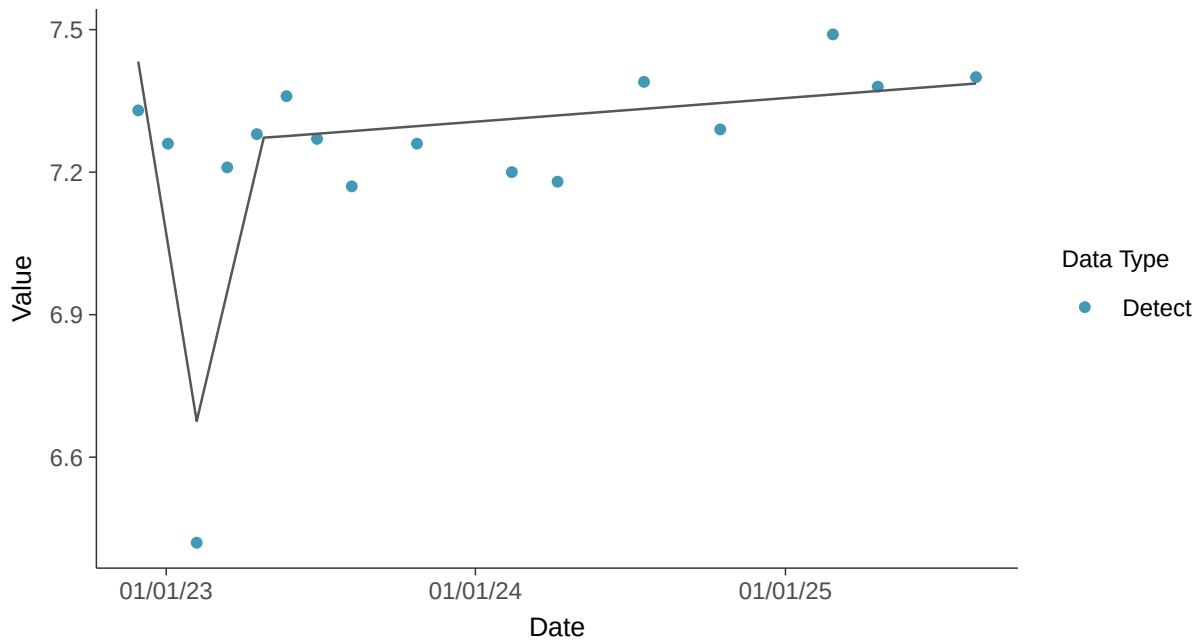
Trend Regression: Piecewise Linear-Linear

pH (field), MW-06 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-06 (su)

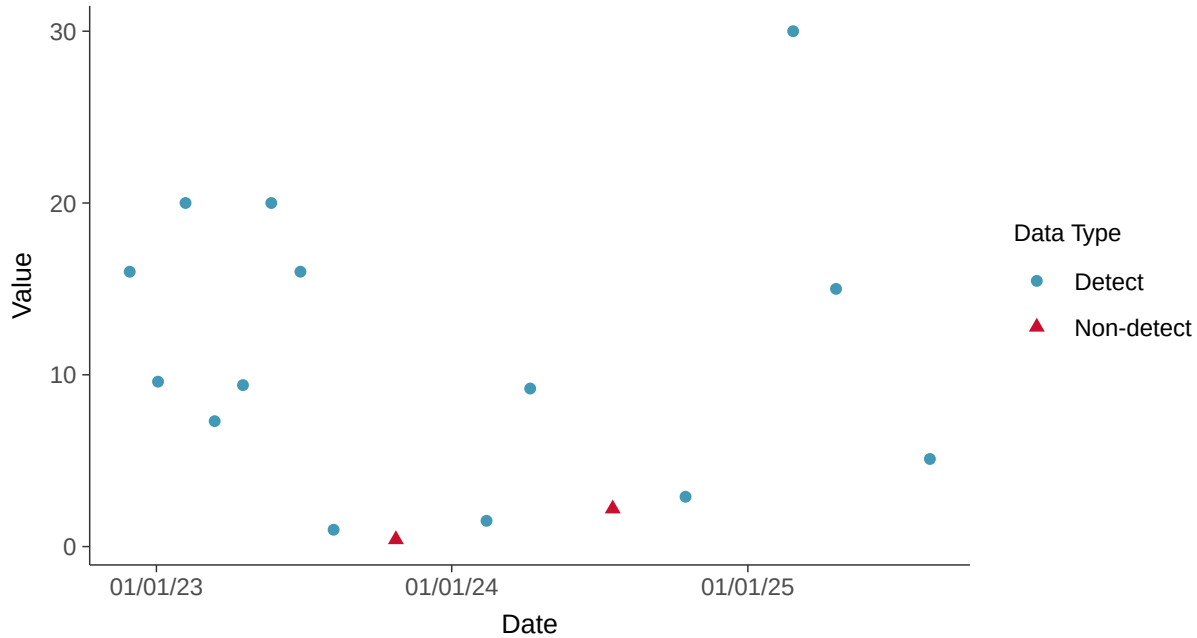


Appendix III: Sulfate (as SO₄), MW-06

ID: 16_1_3_124

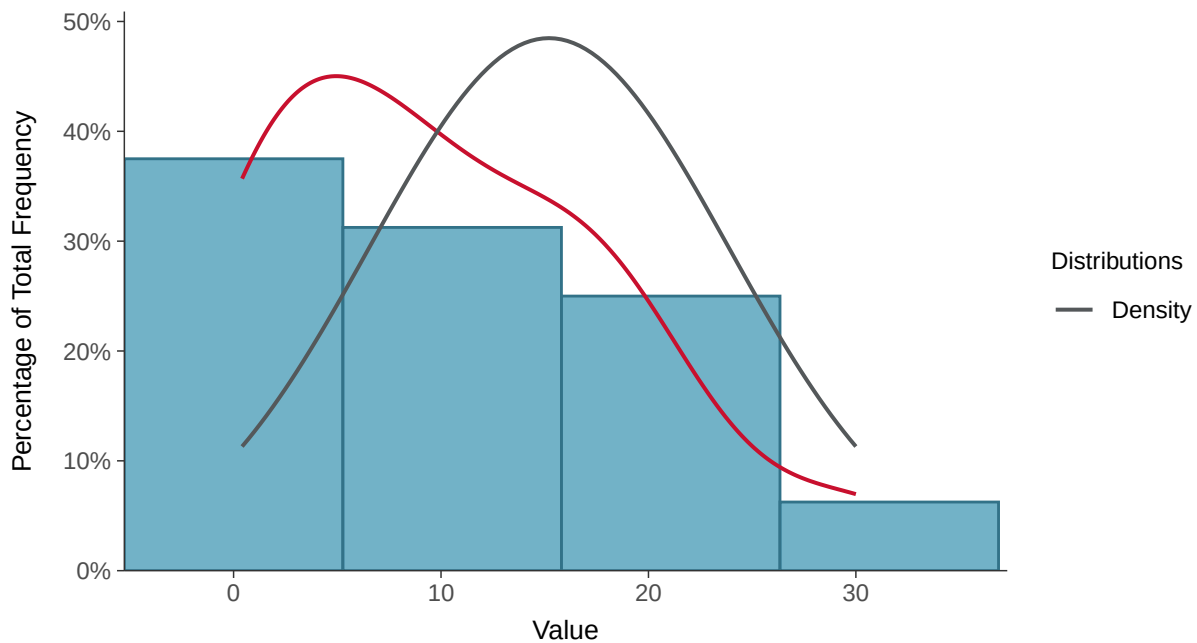
Scatter Plot

Sulfate (as SO₄), MW-06 (mg/L)



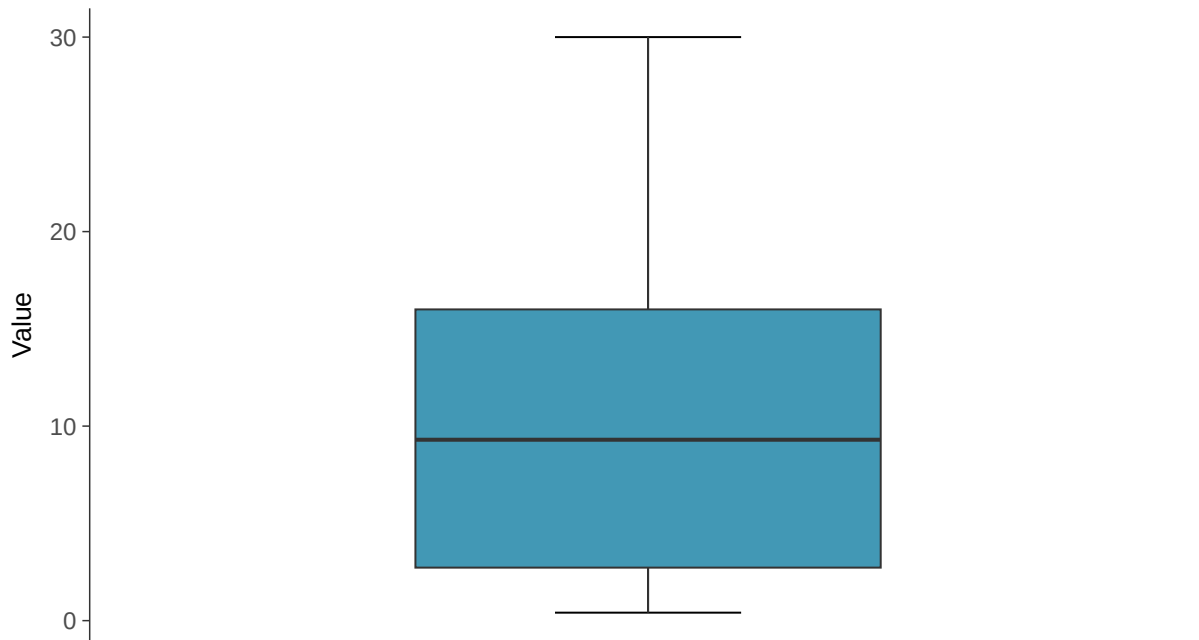
Histogram

Sulfate (as SO₄), MW-06 (mg/L)



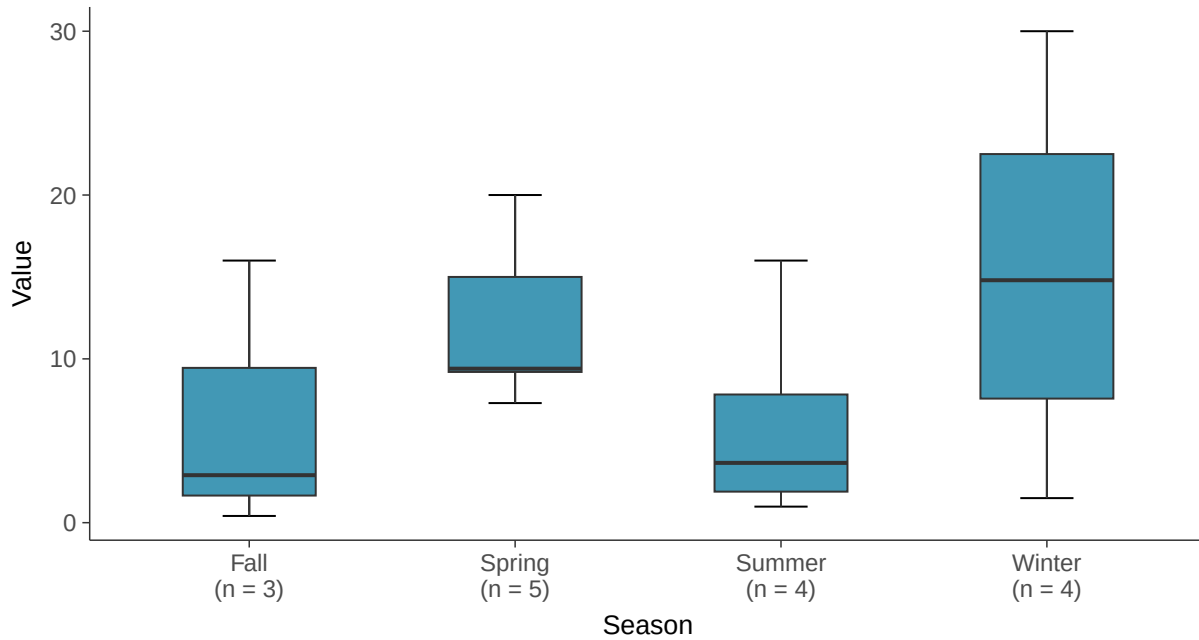
Boxplot

Sulfate (as SO₄), MW-06 (mg/L)



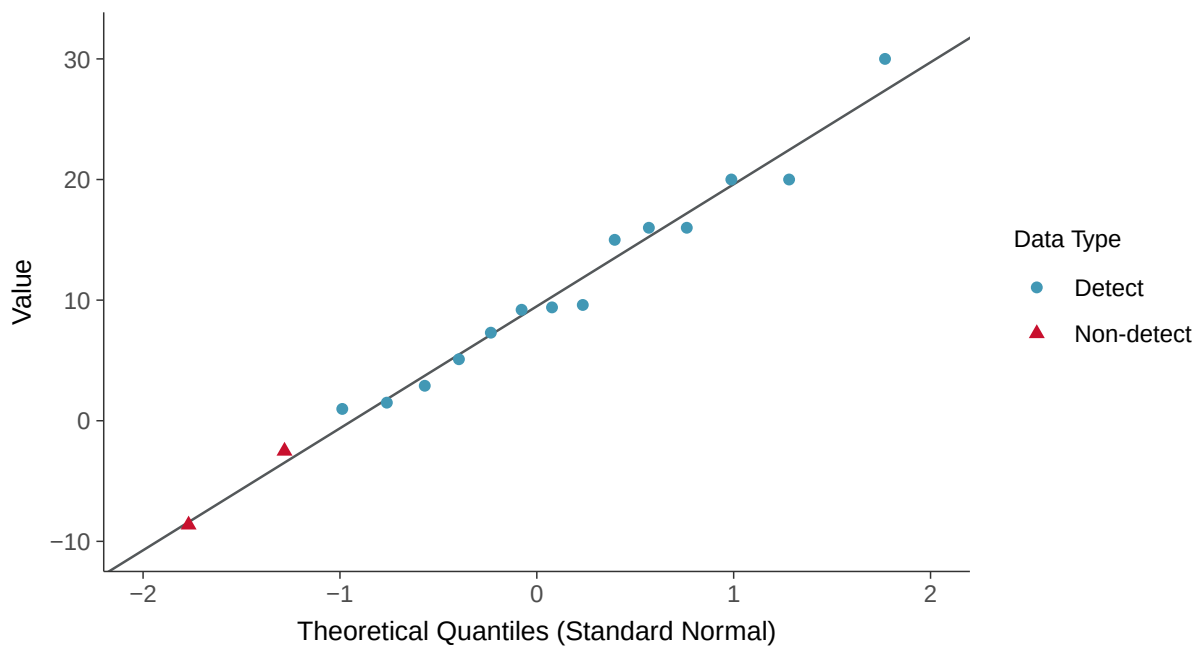
Boxplot by Season

Sulfate (as SO₄), MW-06 (mg/L)



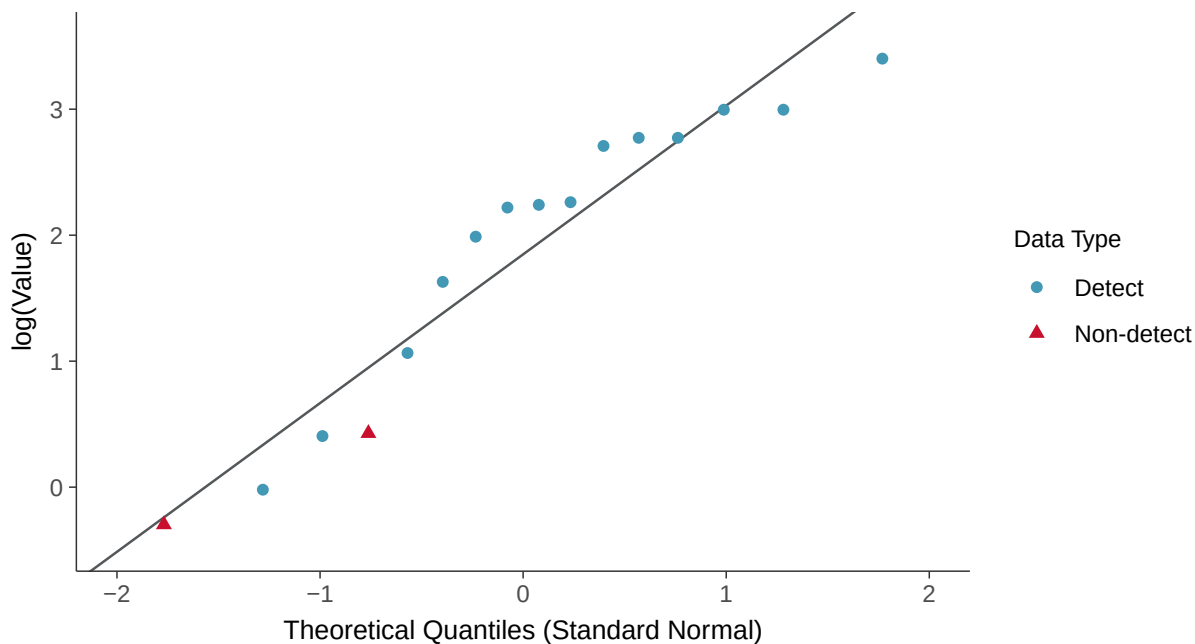
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-06 (mg/L)



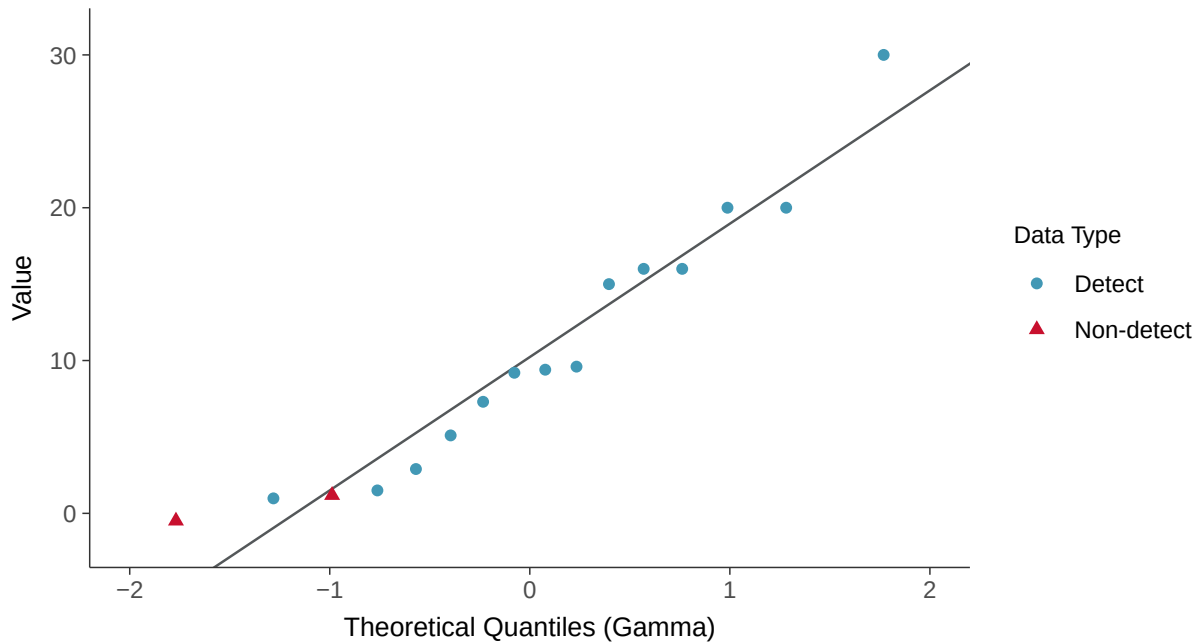
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-06 (mg/L)



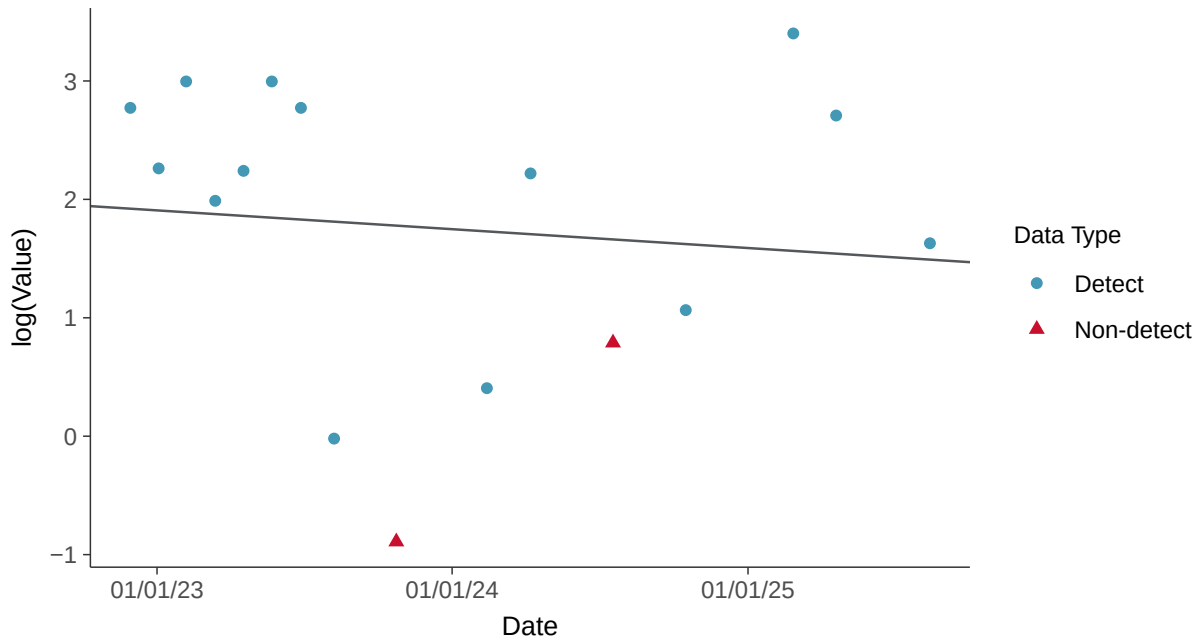
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-06 (mg/L)



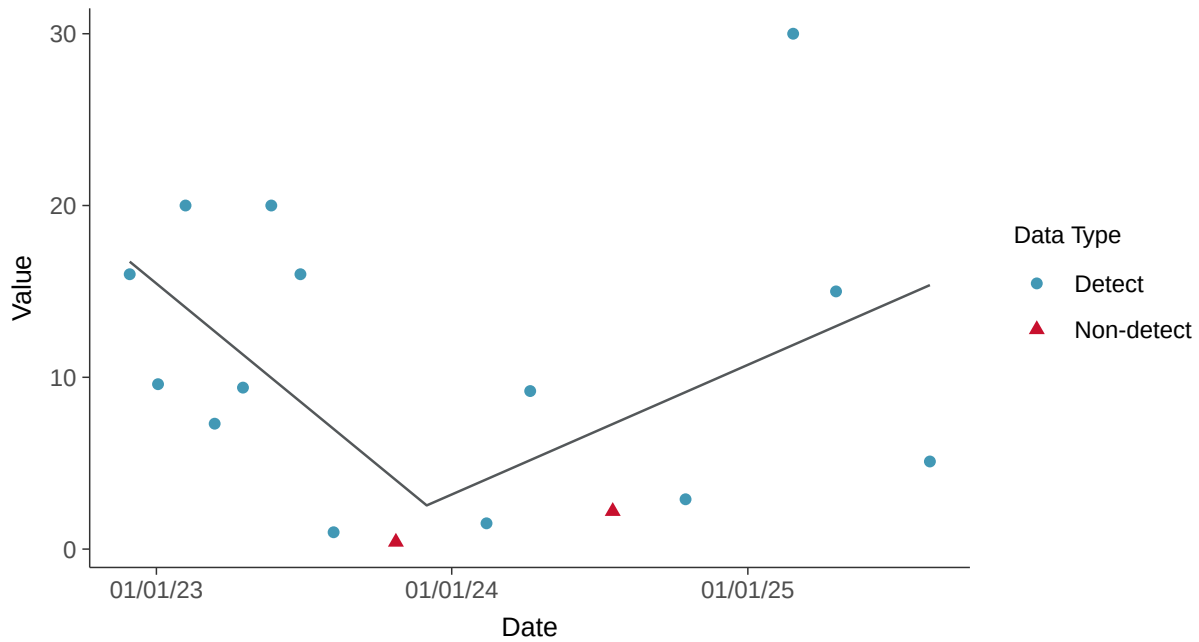
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-06 (mg/L)



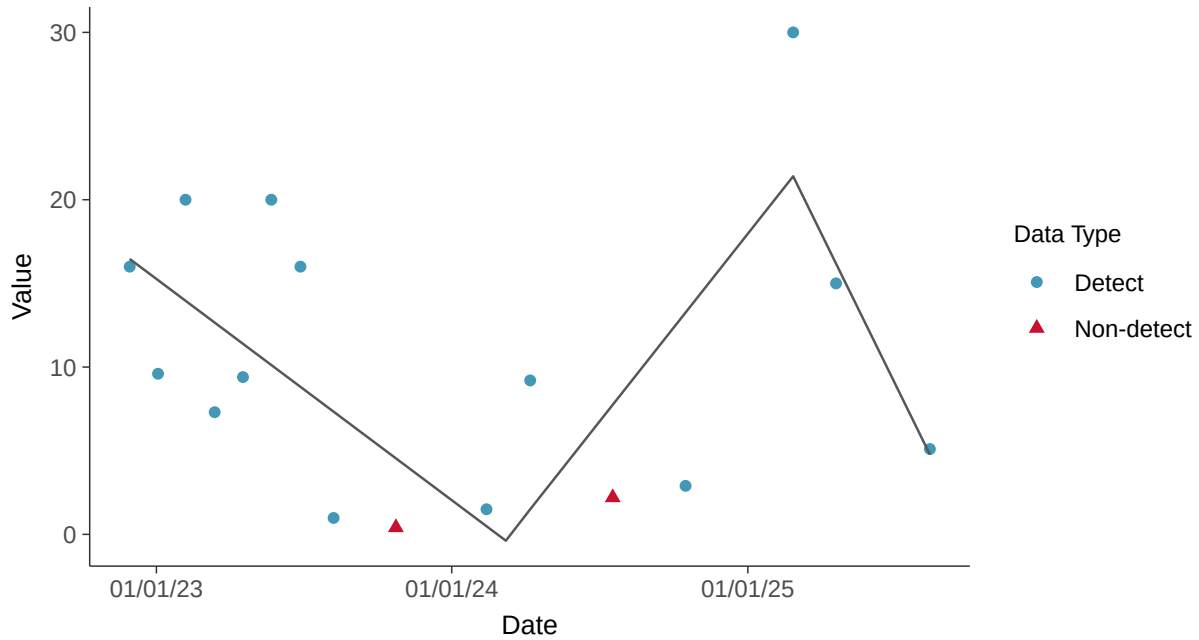
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-06 (mg/L)



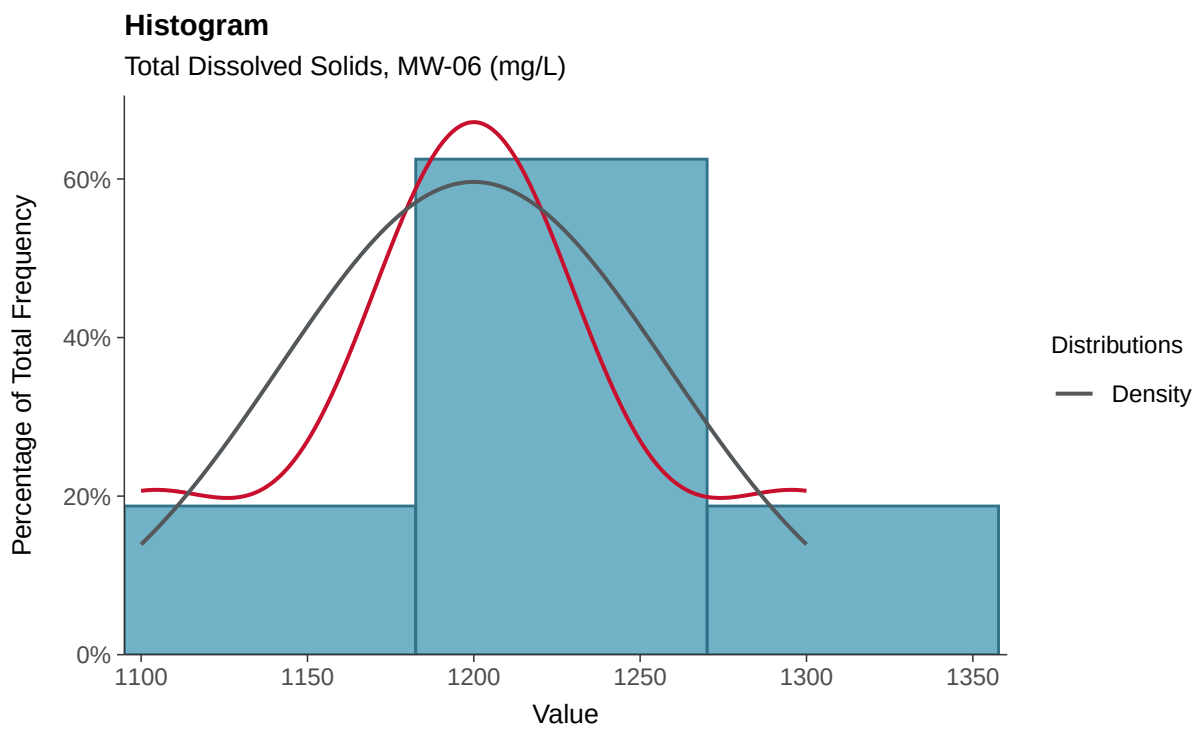
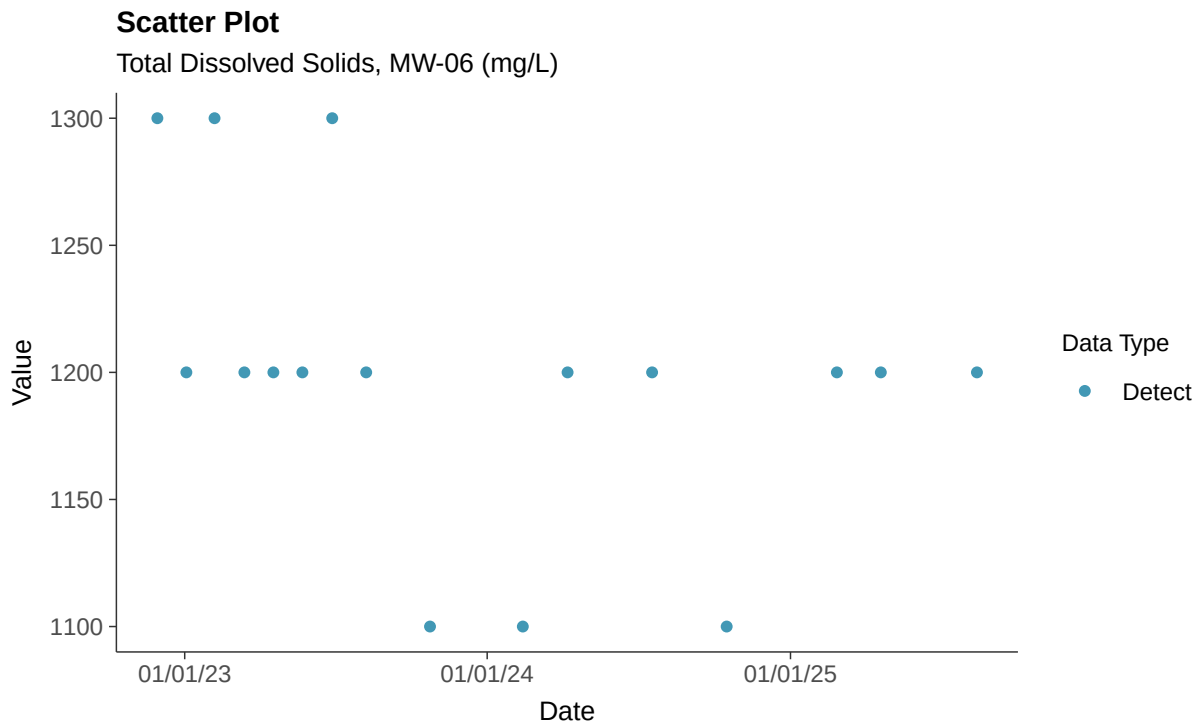
Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-06 (mg/L)



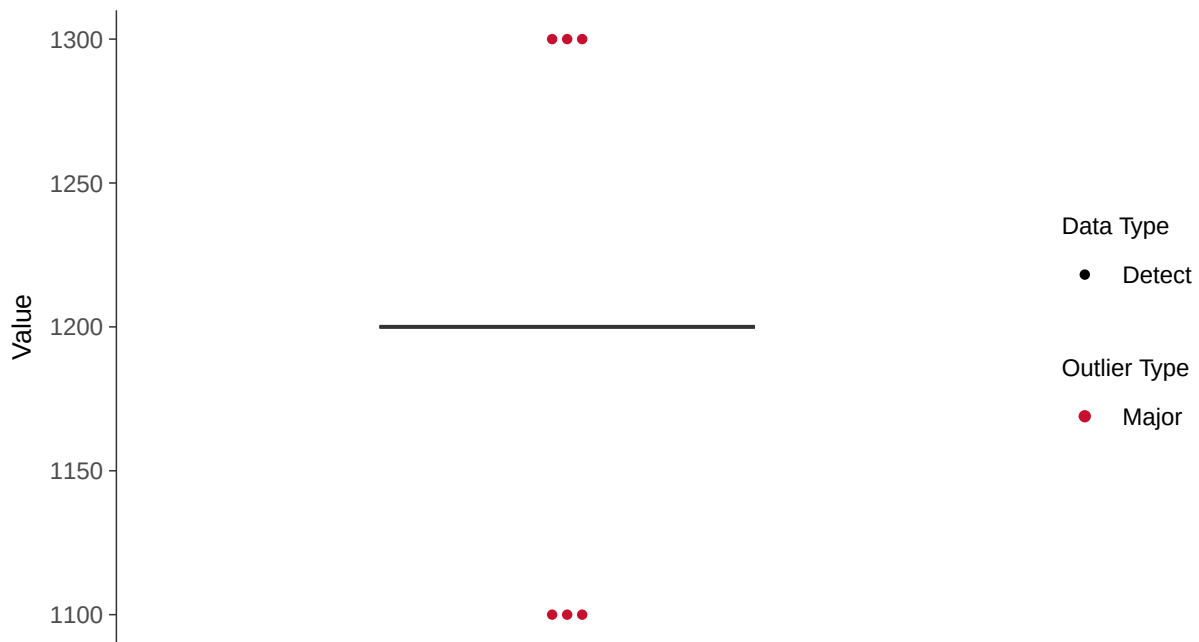
Appendix III: Total Dissolved Solids, MW-06

ID: 16_1_3_126



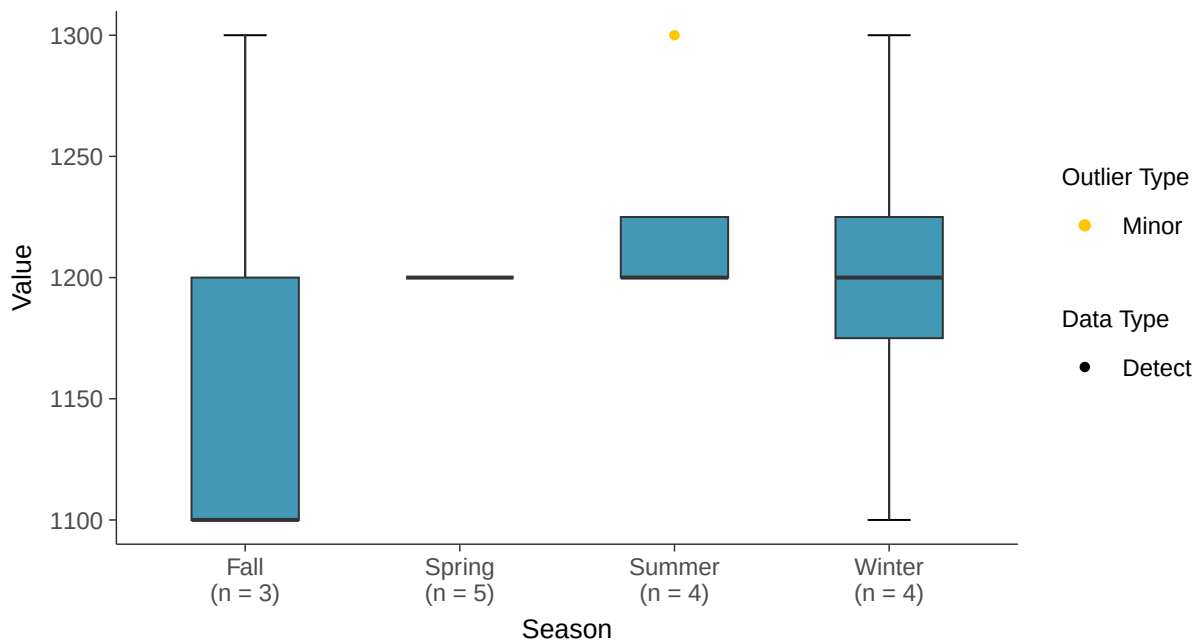
Boxplot

Total Dissolved Solids, MW-06 (mg/L)



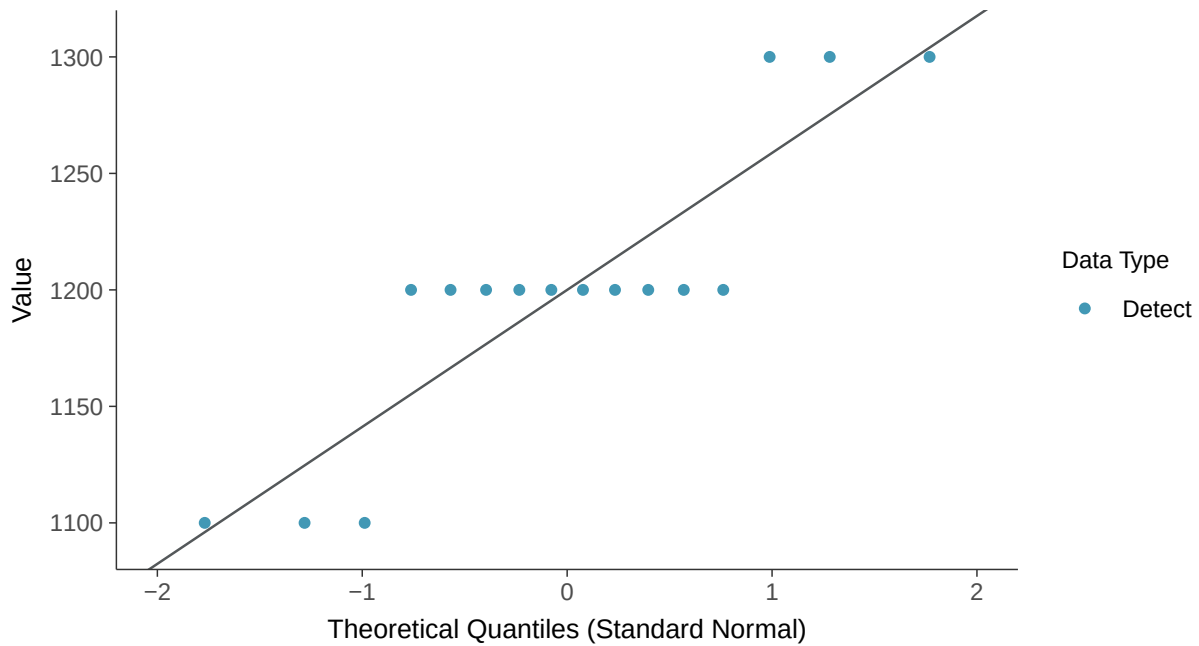
Boxplot by Season

Total Dissolved Solids, MW-06 (mg/L)



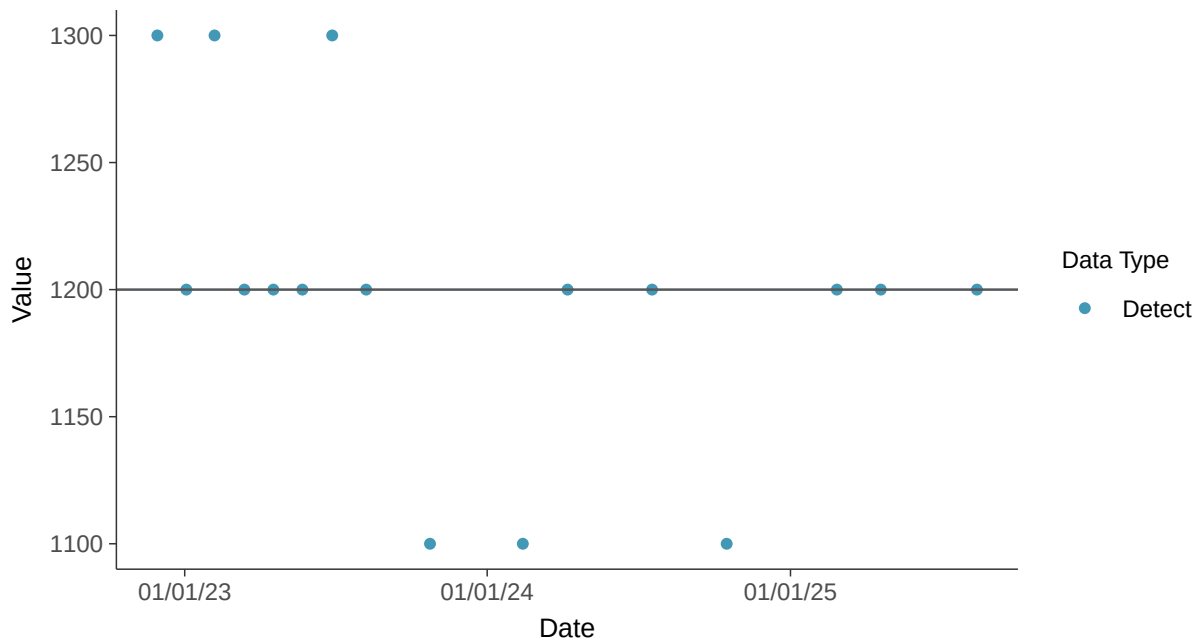
Normal Q-Q plot

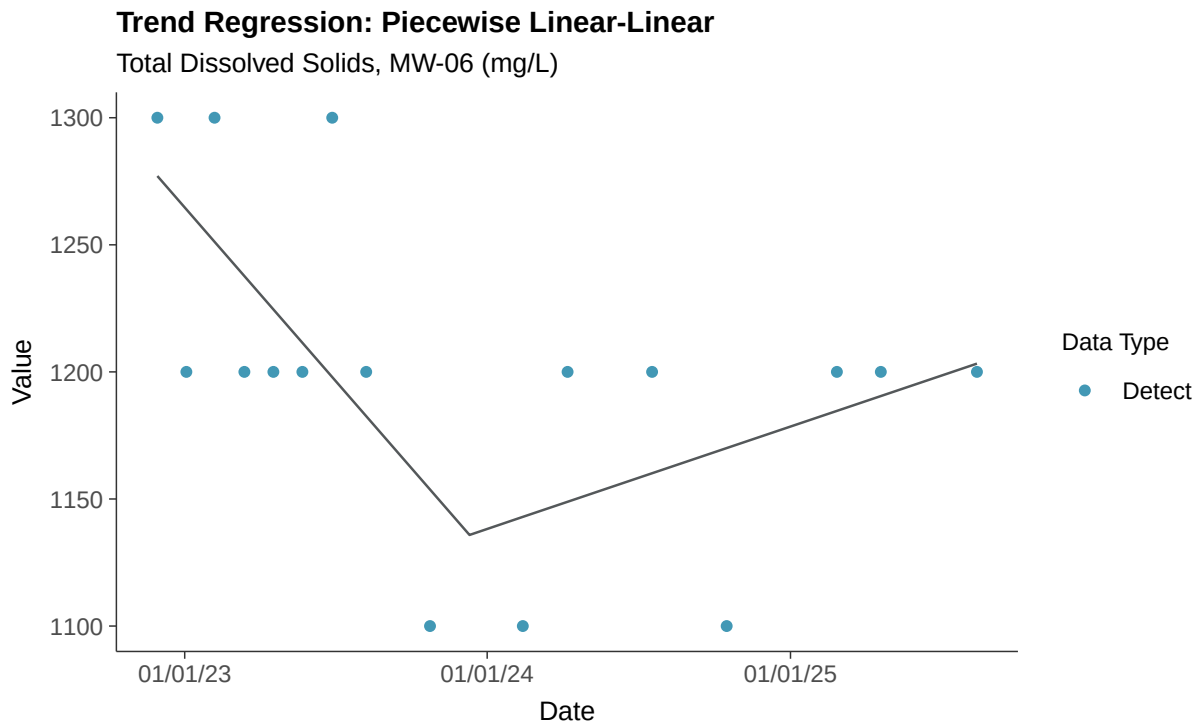
Total Dissolved Solids, MW-06 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

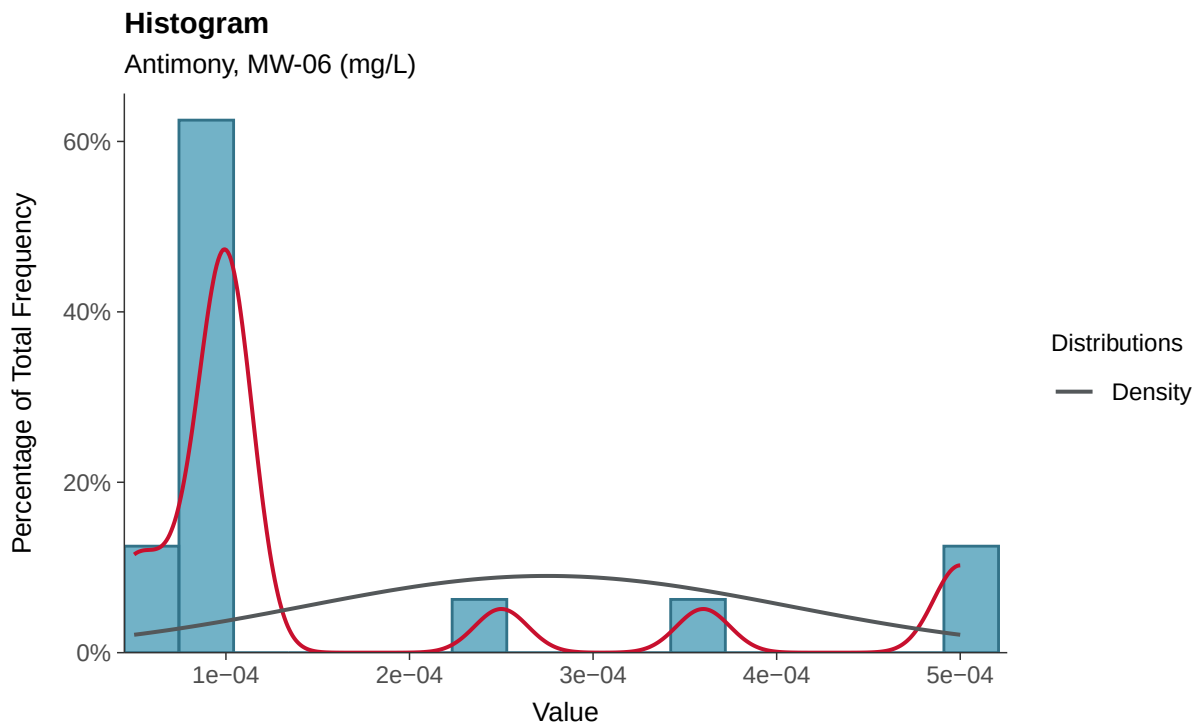
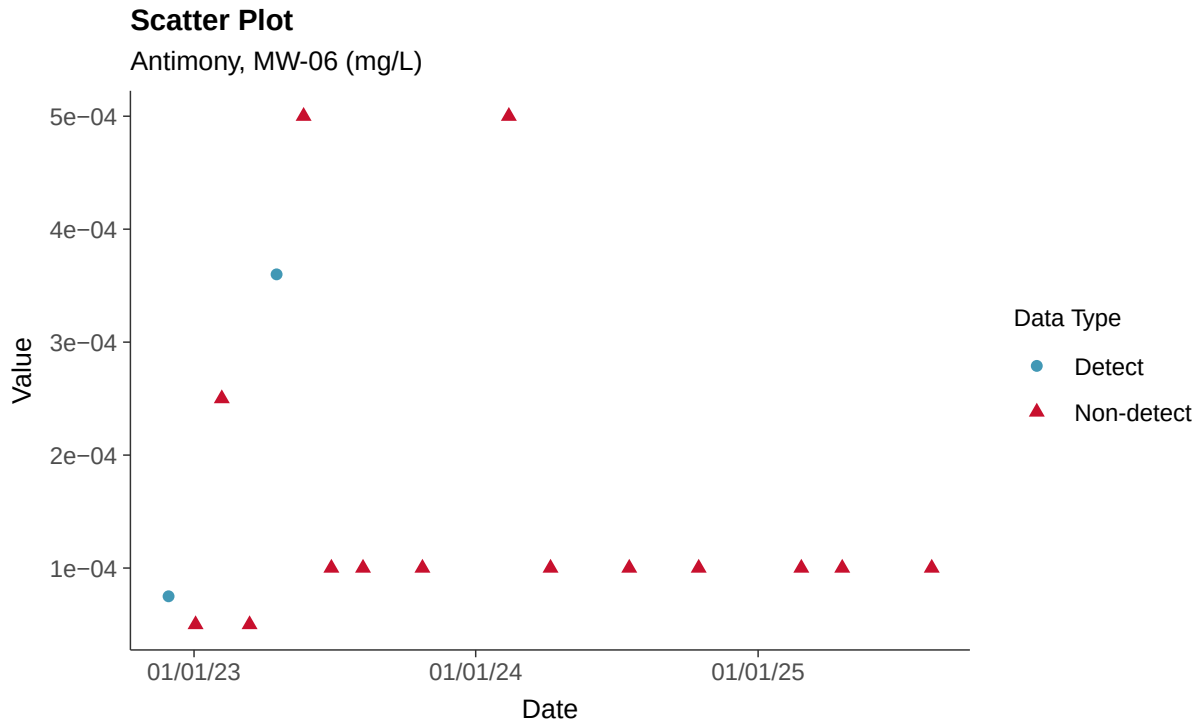
Total Dissolved Solids, MW-06 (mg/L)





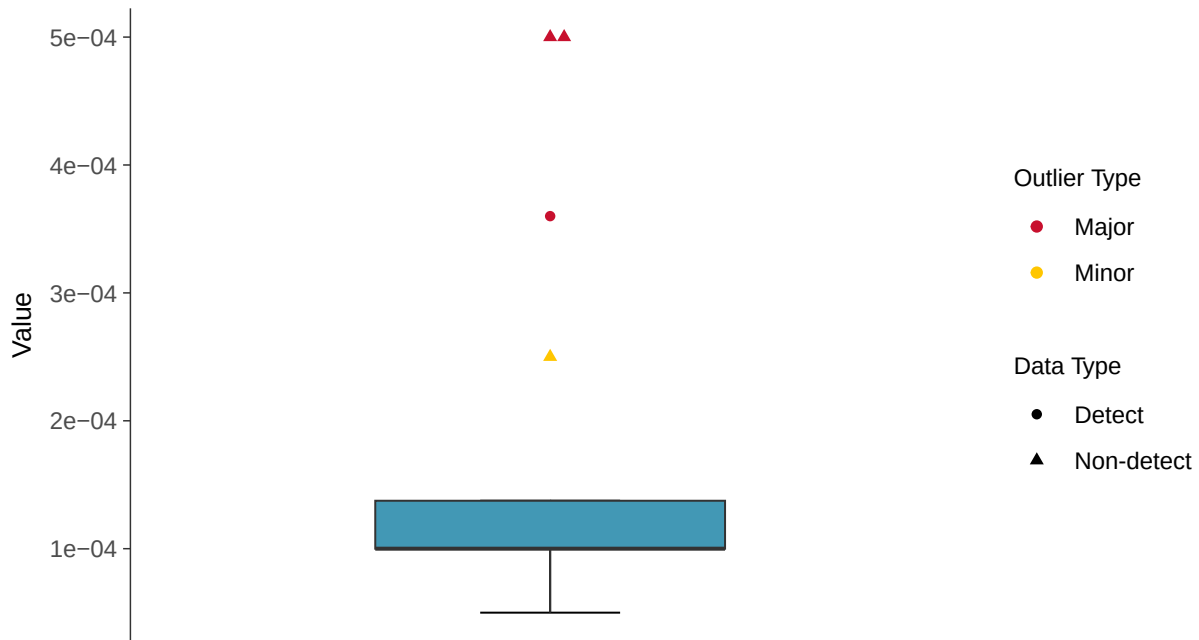
Appendix IV: Antimony, MW-06

ID: 16_1_4_101



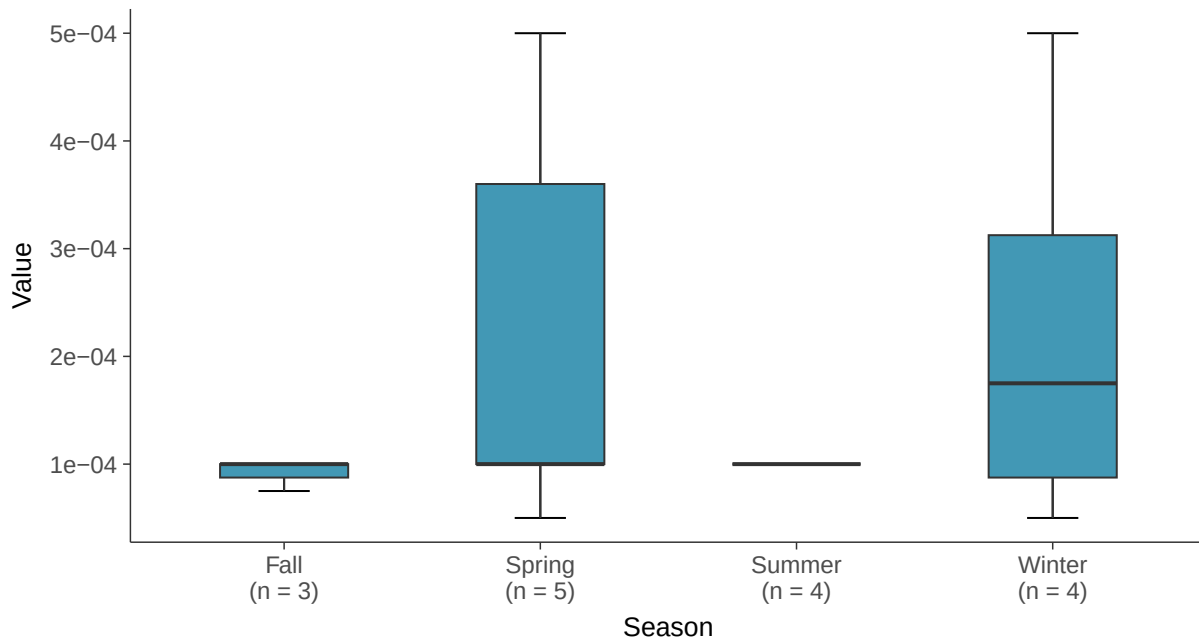
Boxplot

Antimony, MW-06 (mg/L)



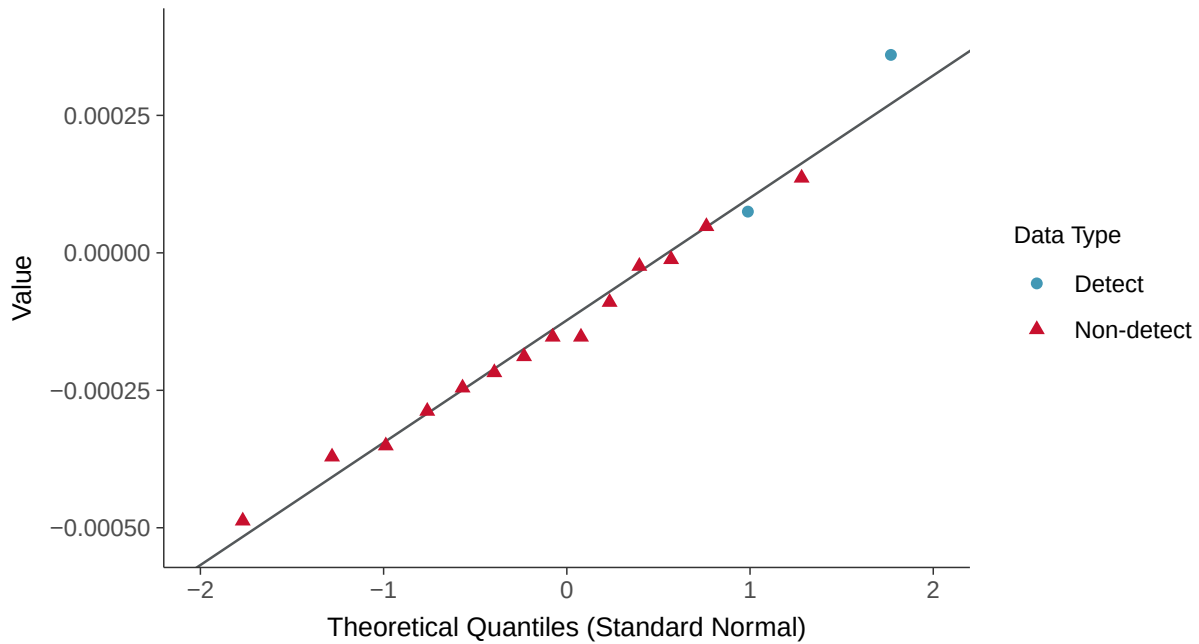
Boxplot by Season

Antimony, MW-06 (mg/L)



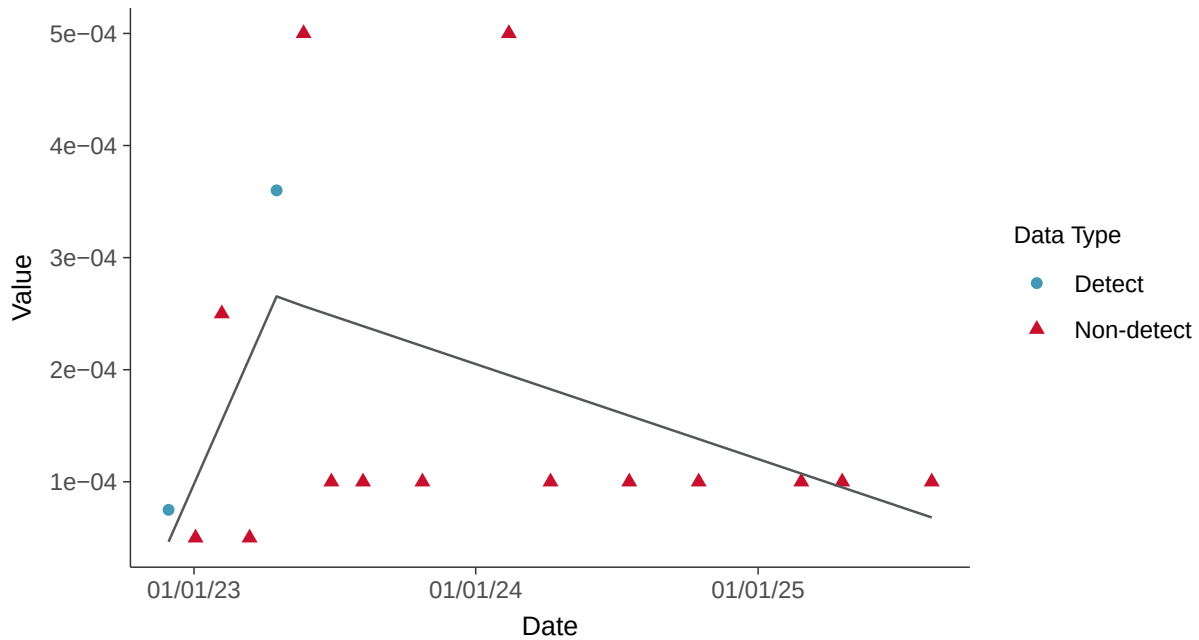
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-06 (mg/L)

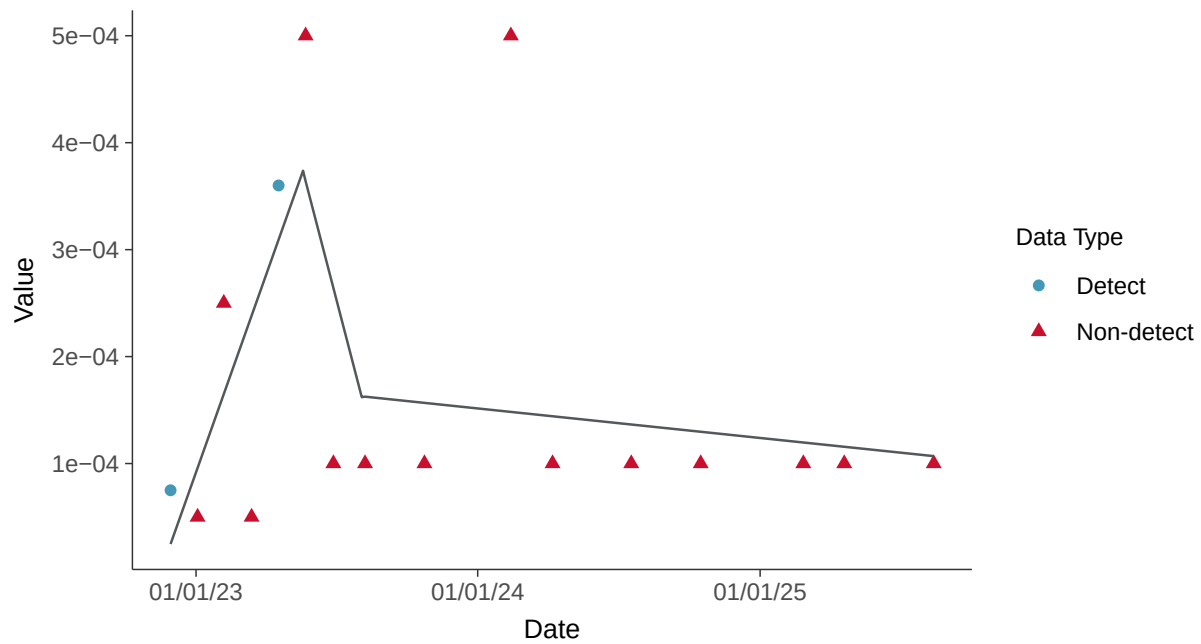


Trend Regression: Piecewise Linear-Linear

Antimony, MW-06 (mg/L)

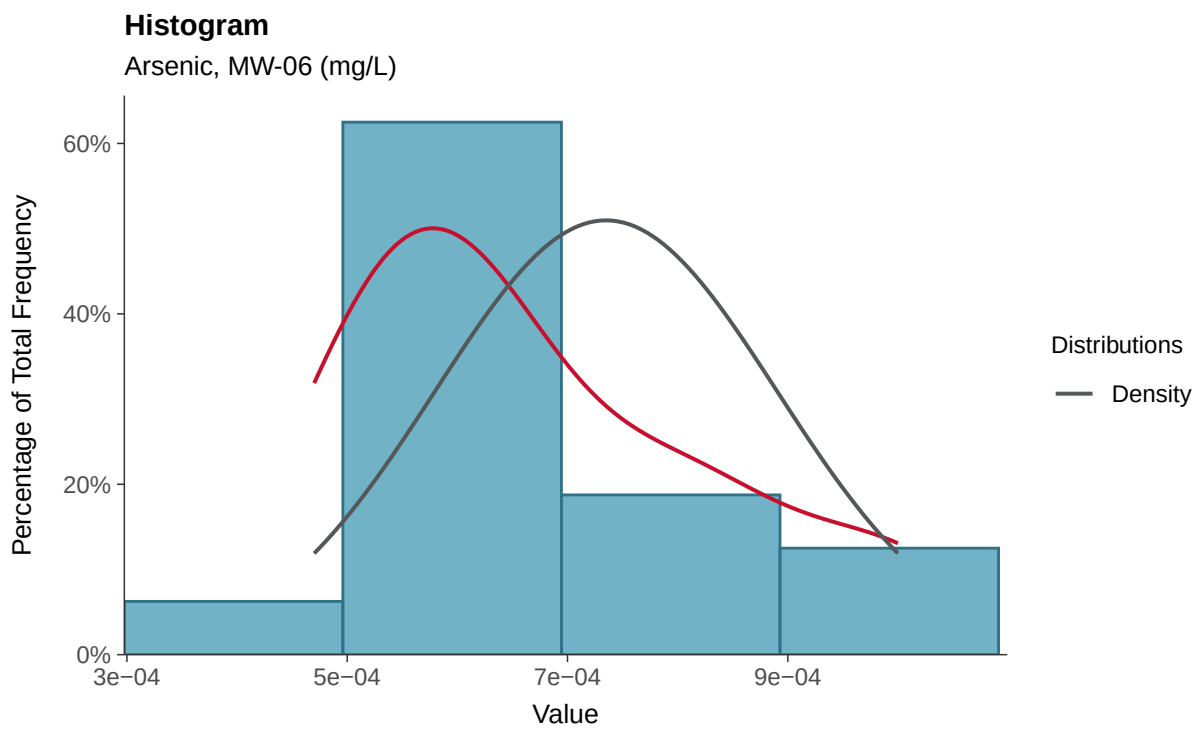
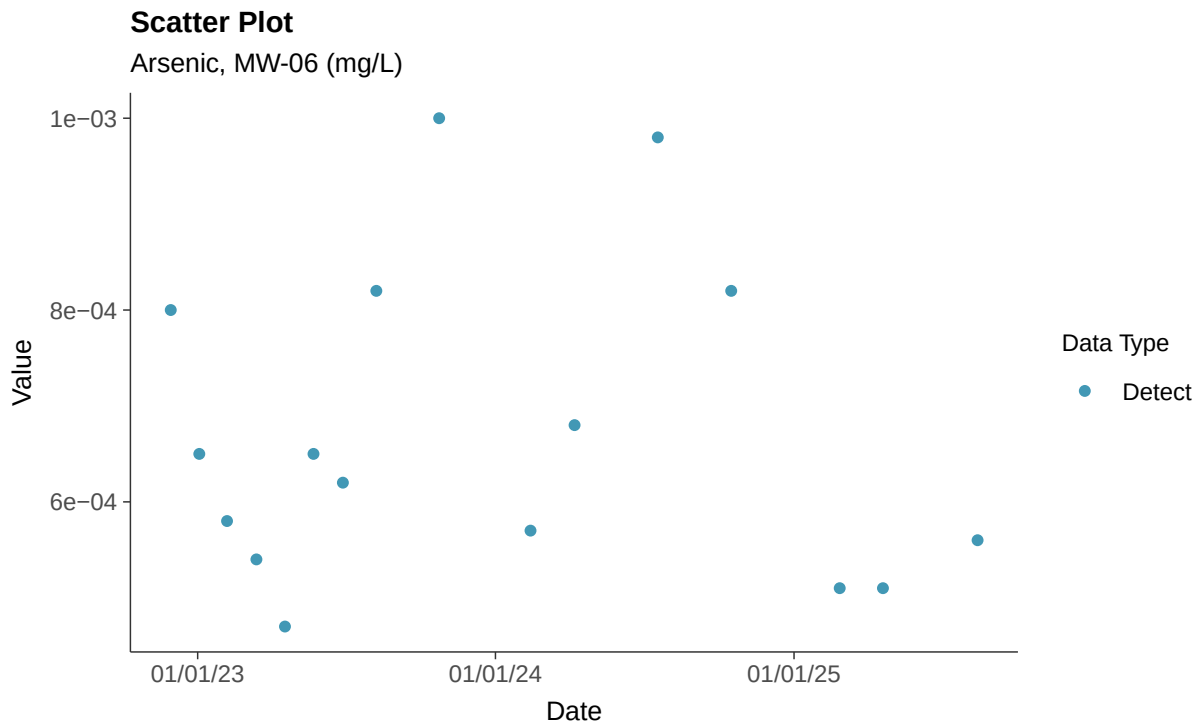


Antimony, MW-06 (mg/L)



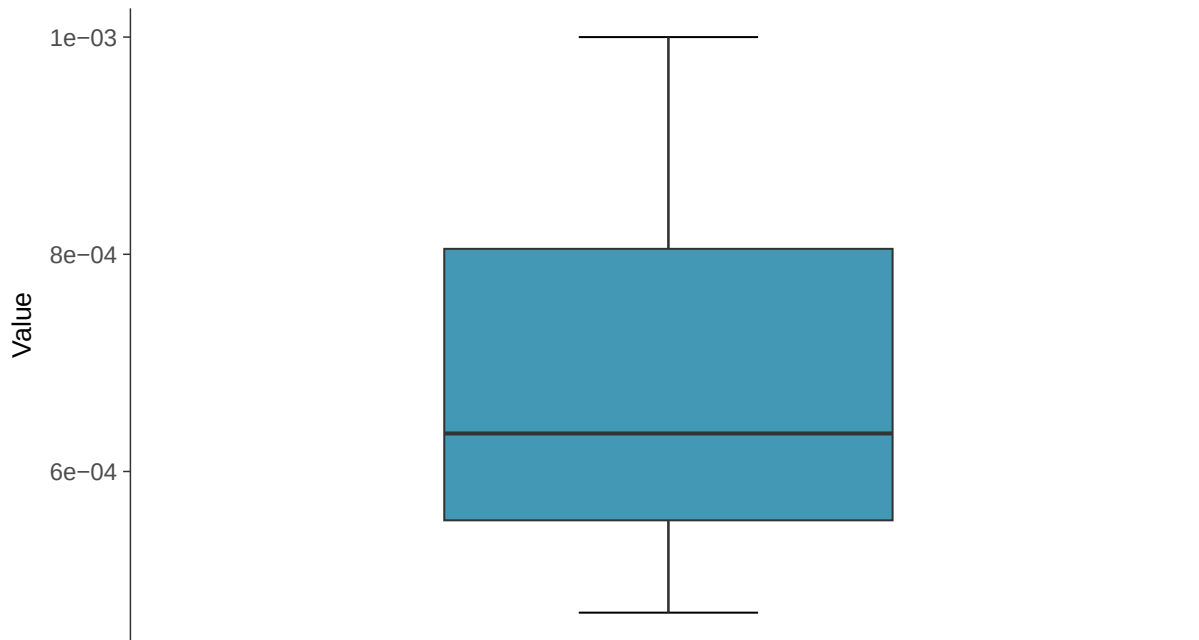
Appendix IV: Arsenic, MW-06

ID: 16_1_4_102



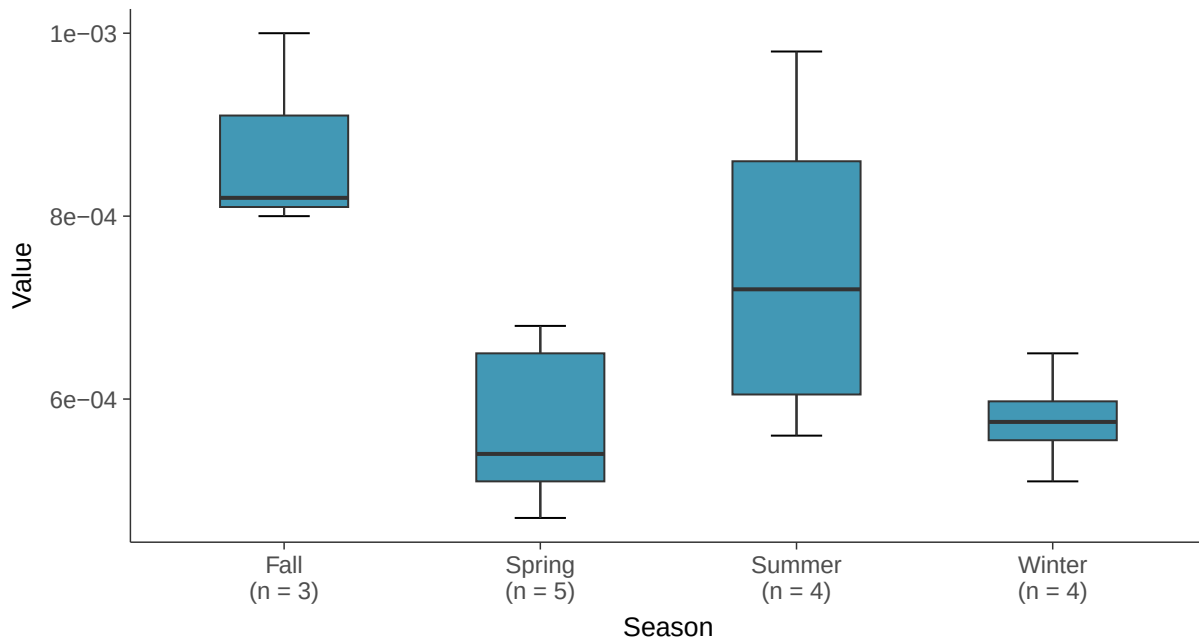
Boxplot

Arsenic, MW-06 (mg/L)



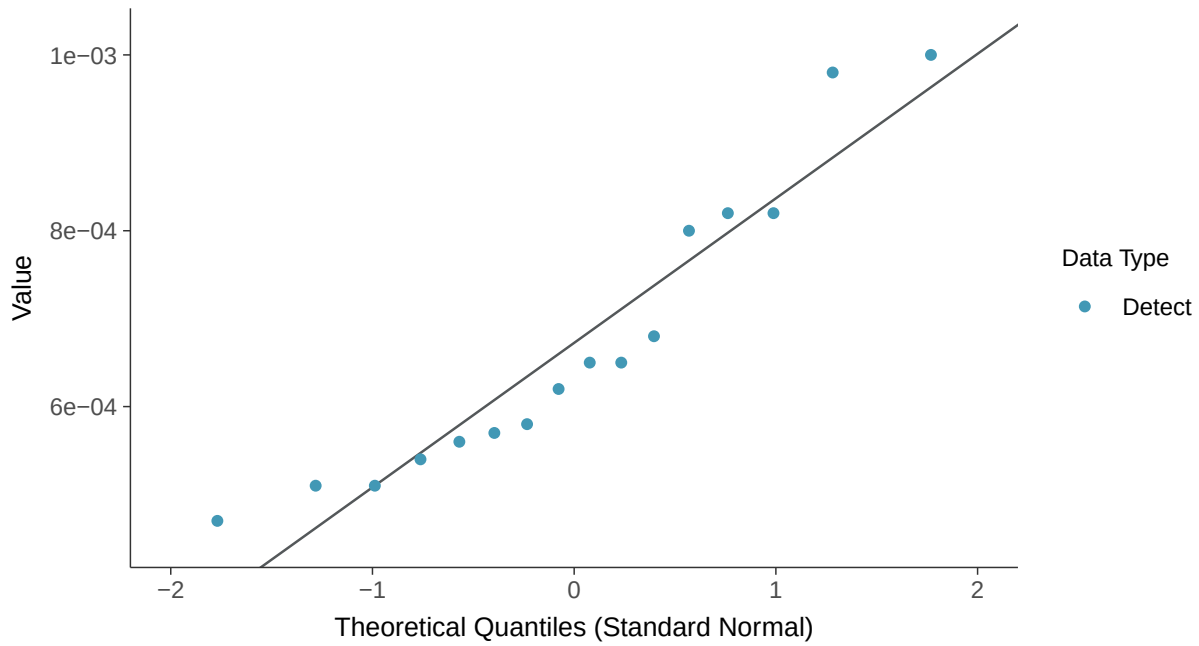
Boxplot by Season

Arsenic, MW-06 (mg/L)



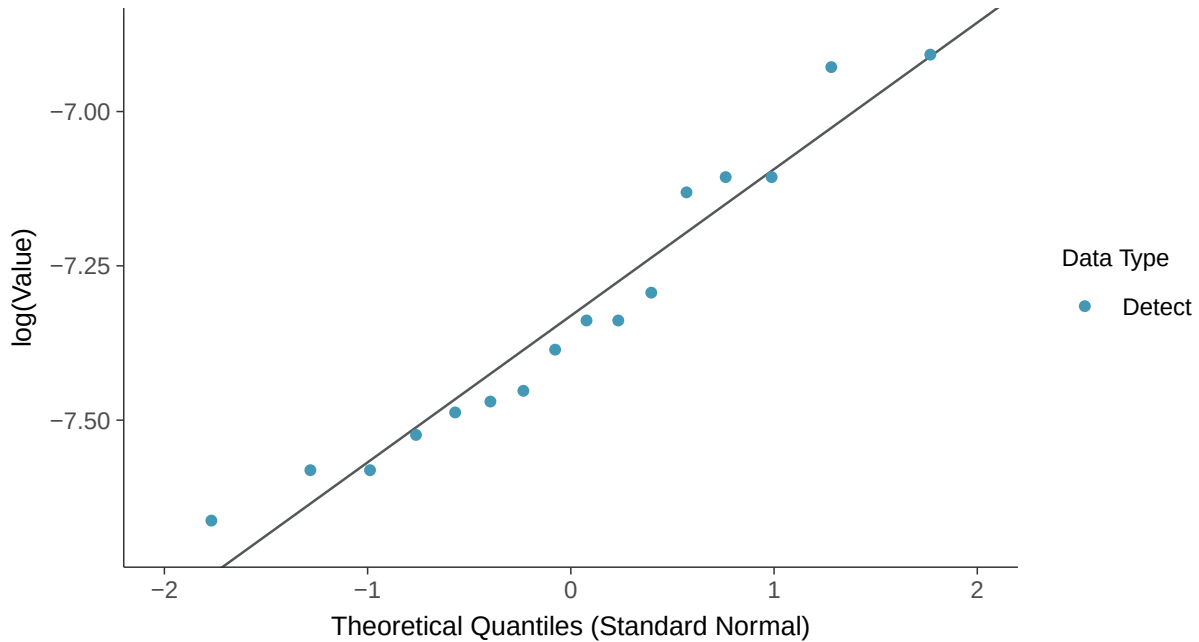
Normal Q-Q plot

Arsenic, MW-06 (mg/L)



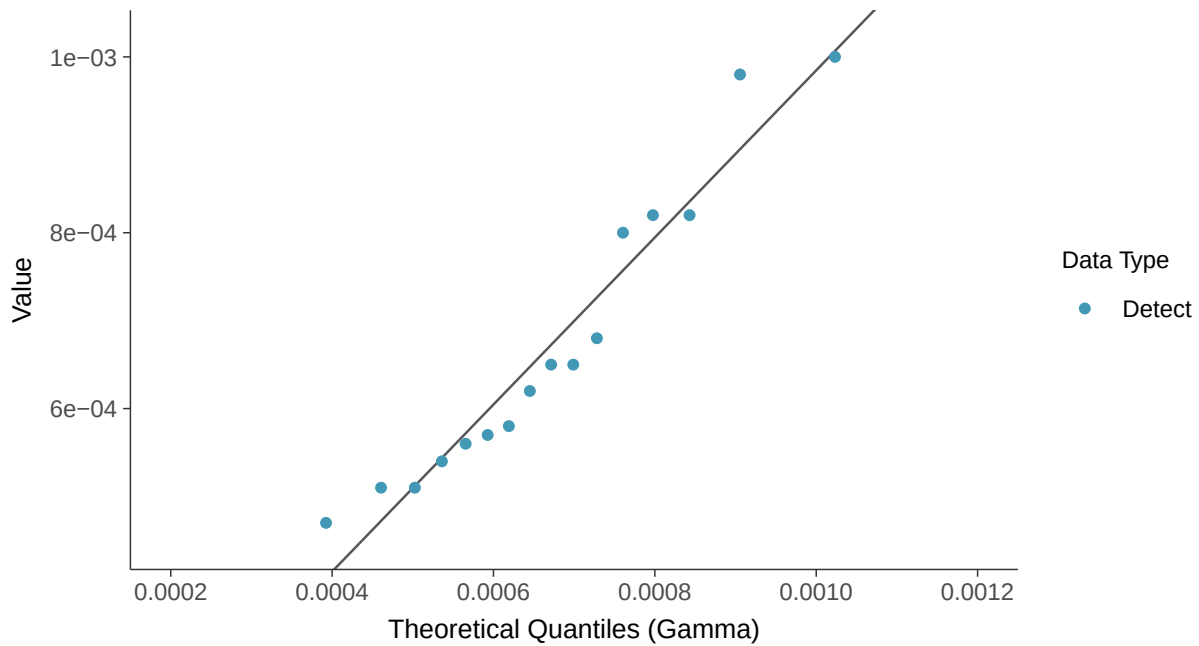
Lognormal Q-Q plot

Arsenic, MW-06 (mg/L)



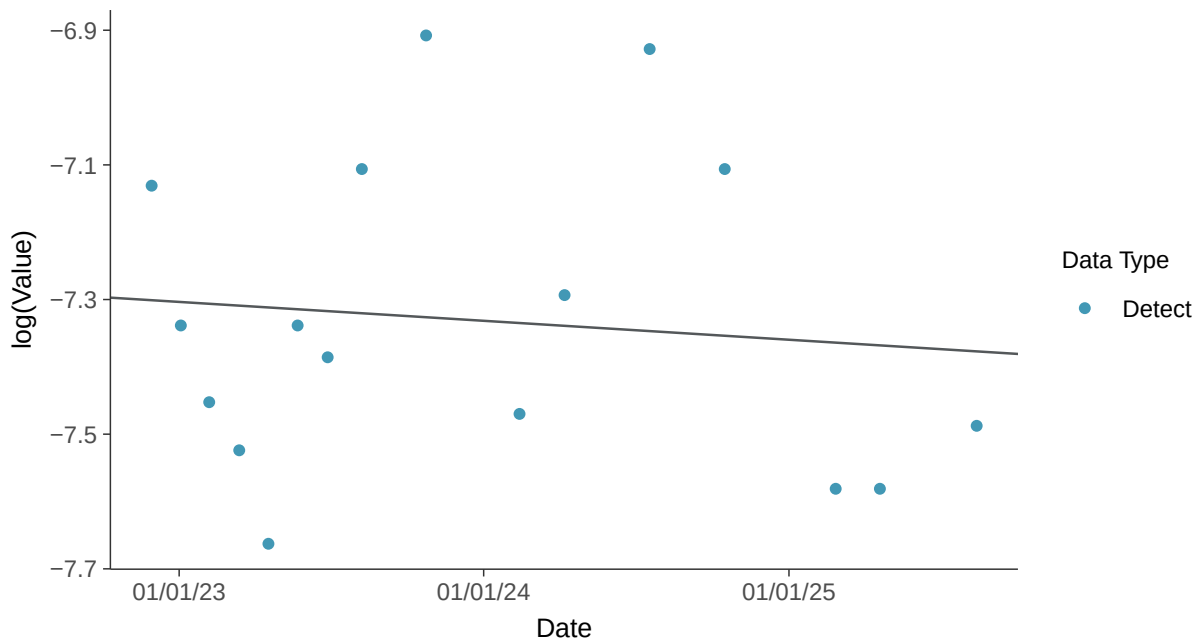
Gamma Q-Q plot

Arsenic, MW-06 (mg/L)



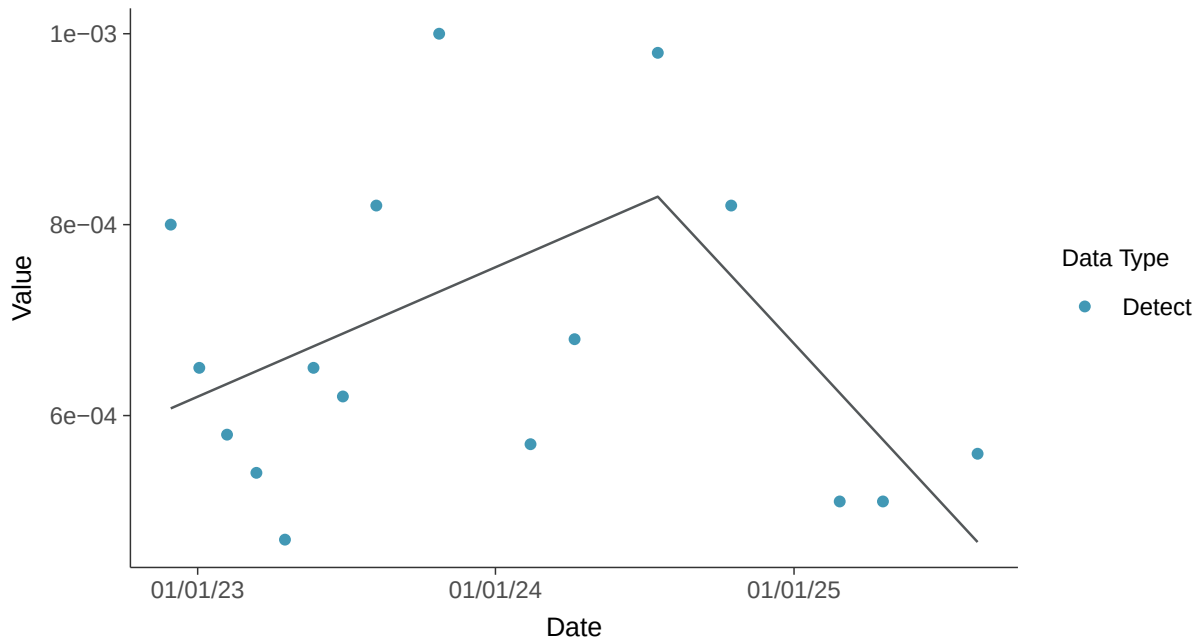
Trend Regression: Lognormal MLE

Arsenic, MW-06 (mg/L)



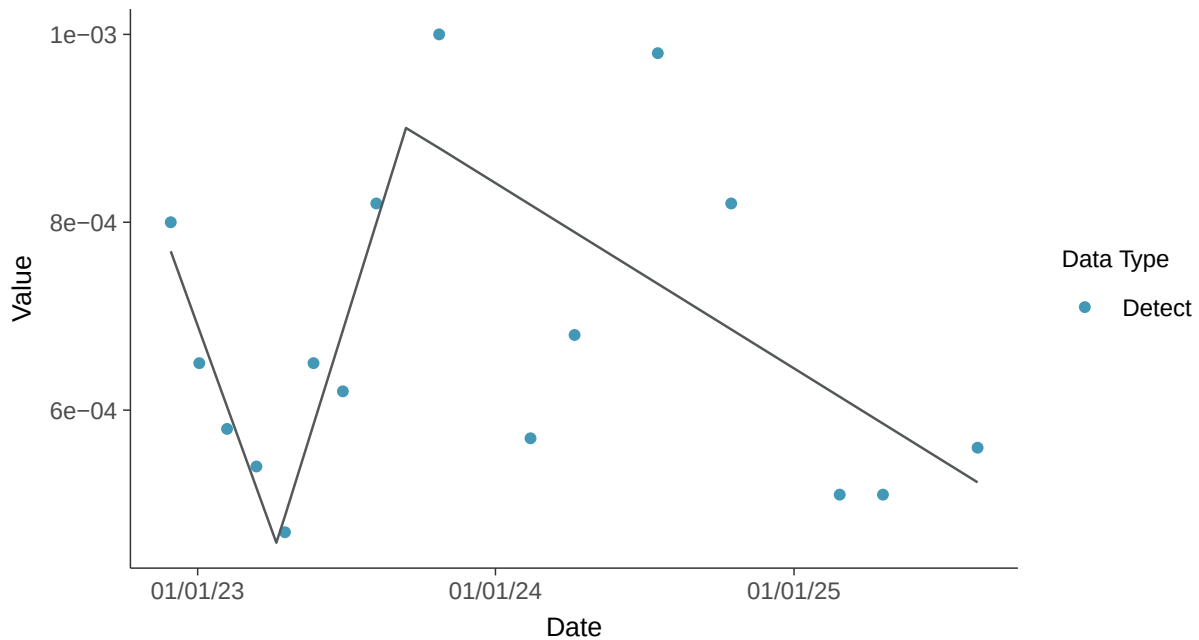
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-06 (mg/L)



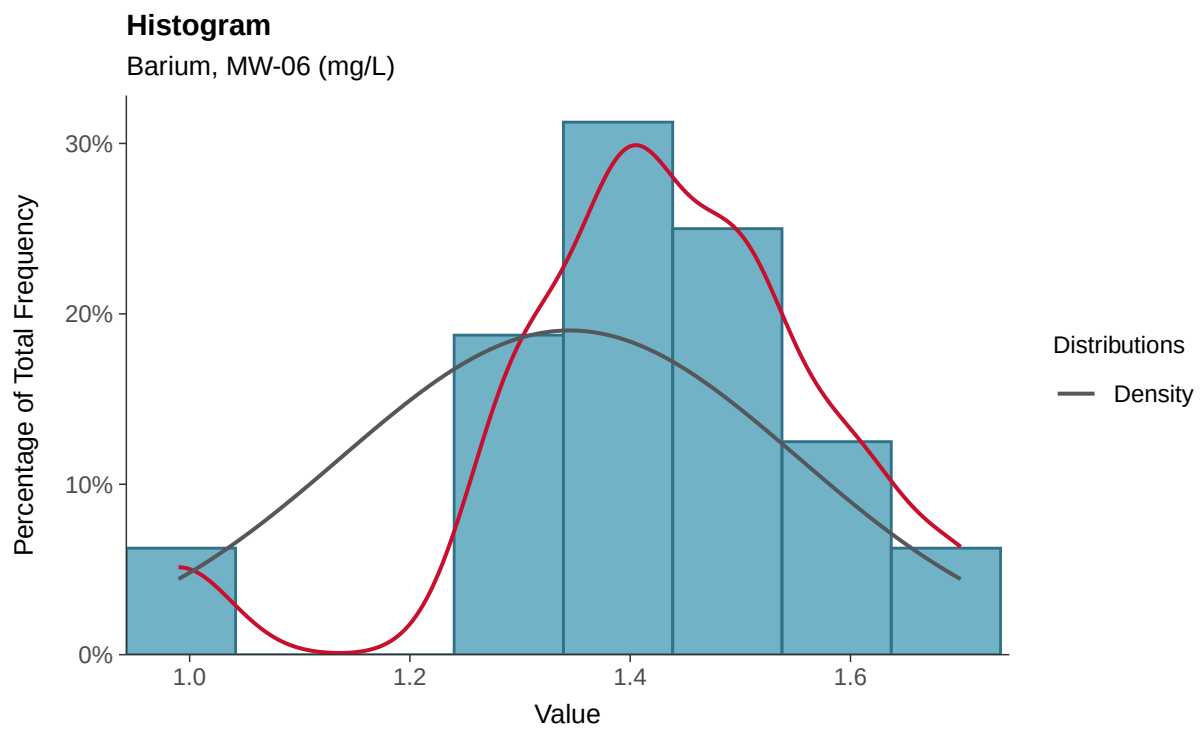
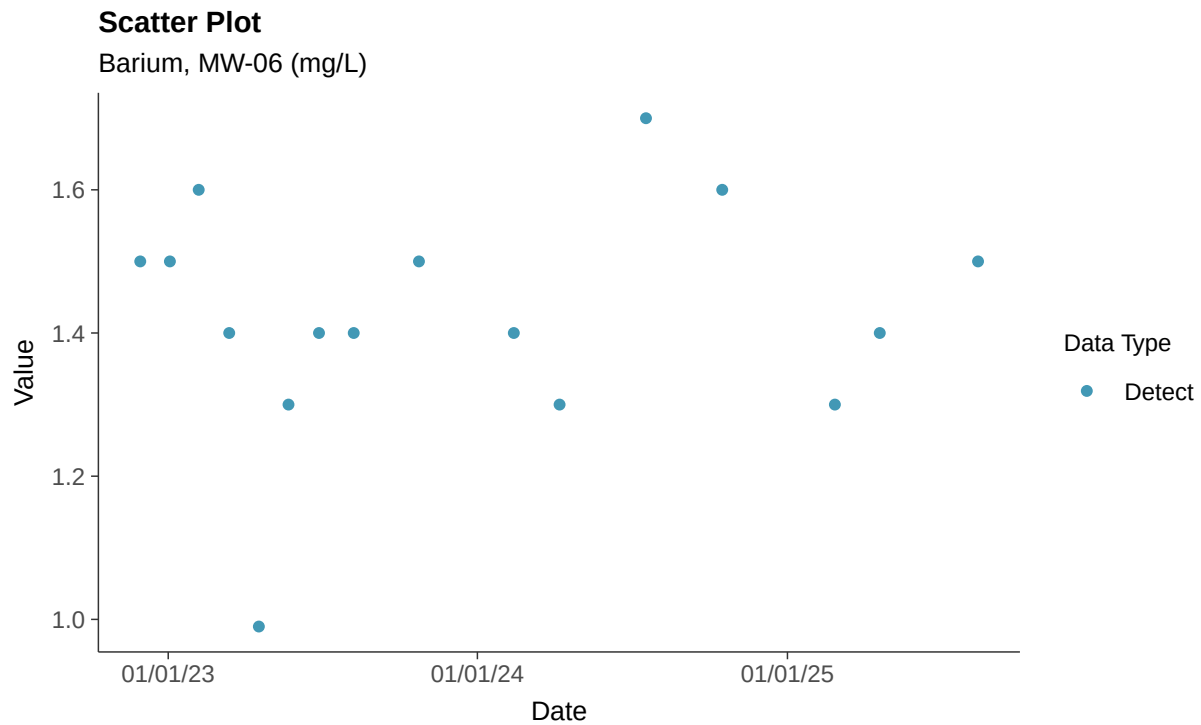
Trend Regression: Piecewise Linear-Linear-Linear

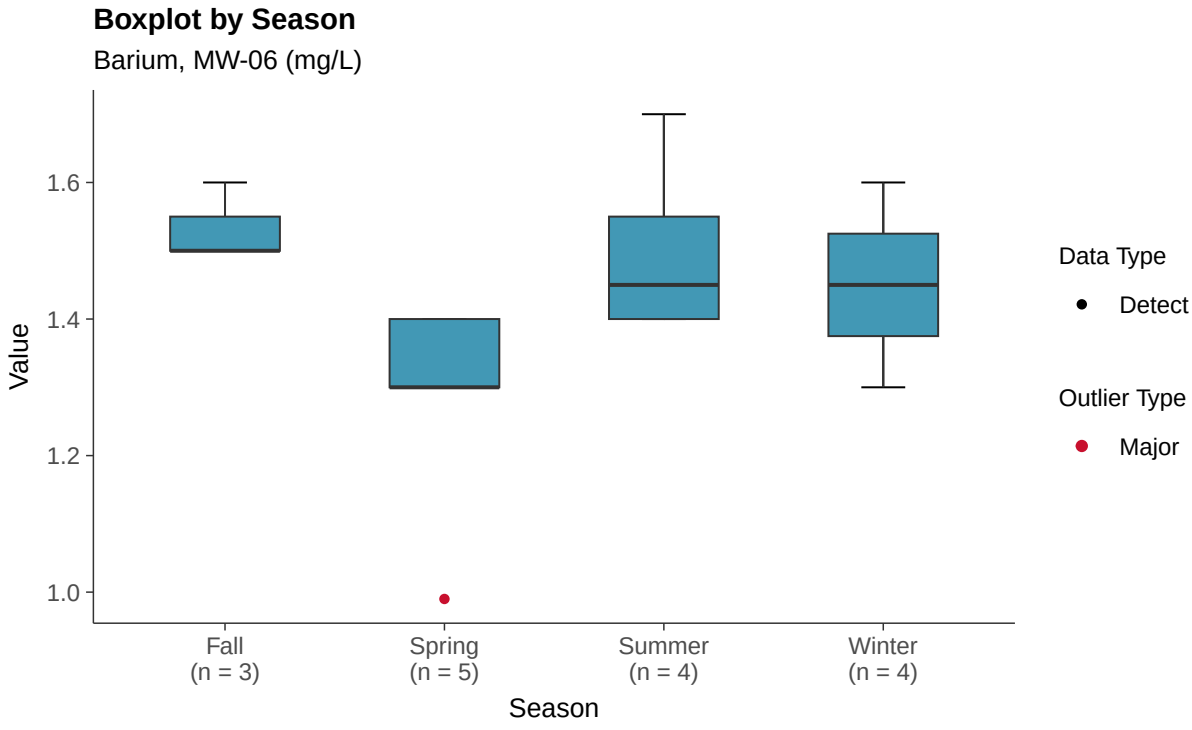
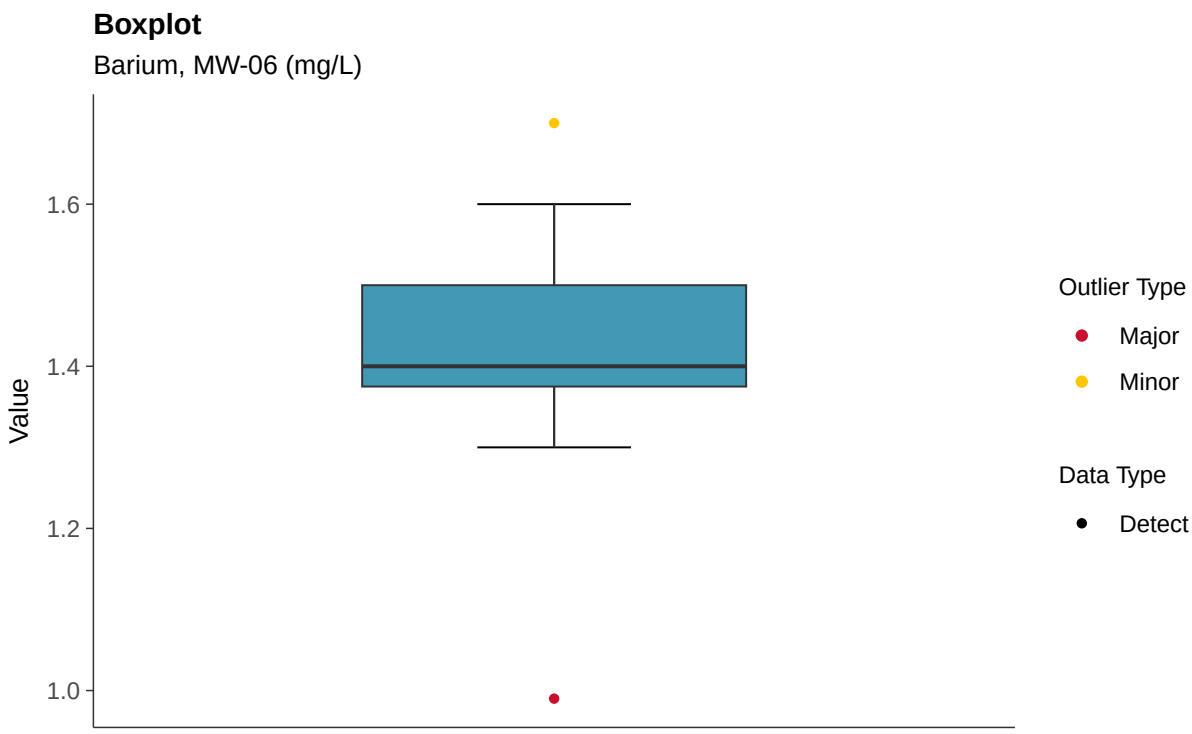
Arsenic, MW-06 (mg/L)



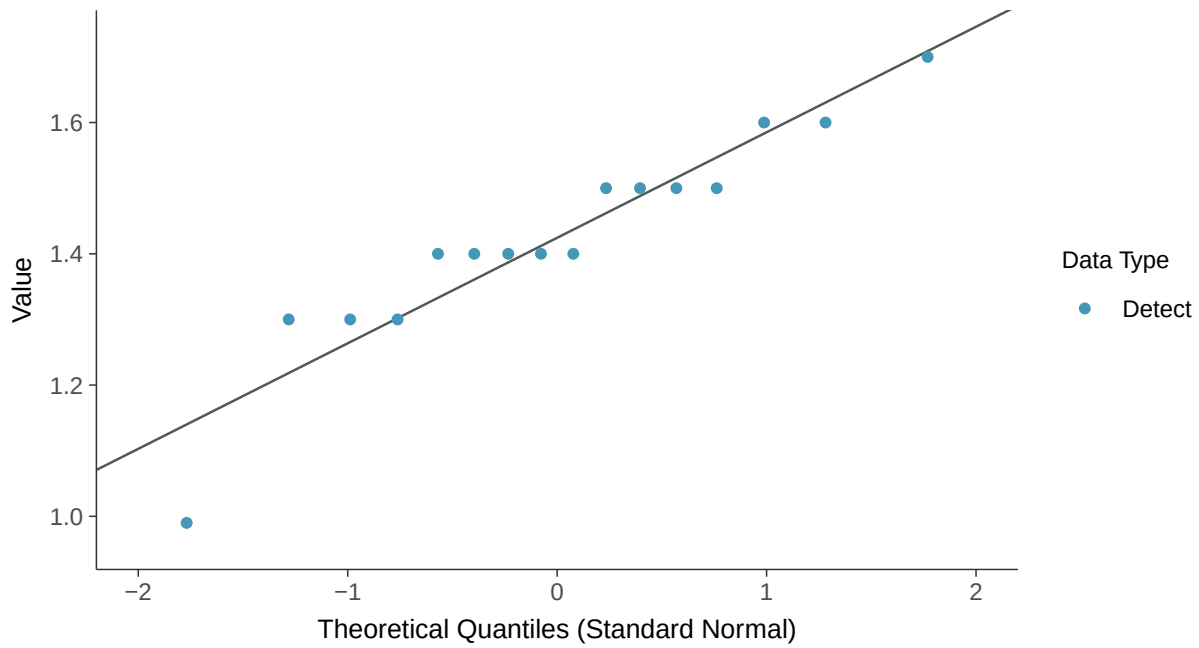
Appendix IV: Barium, MW-06

ID: 16_1_4_103

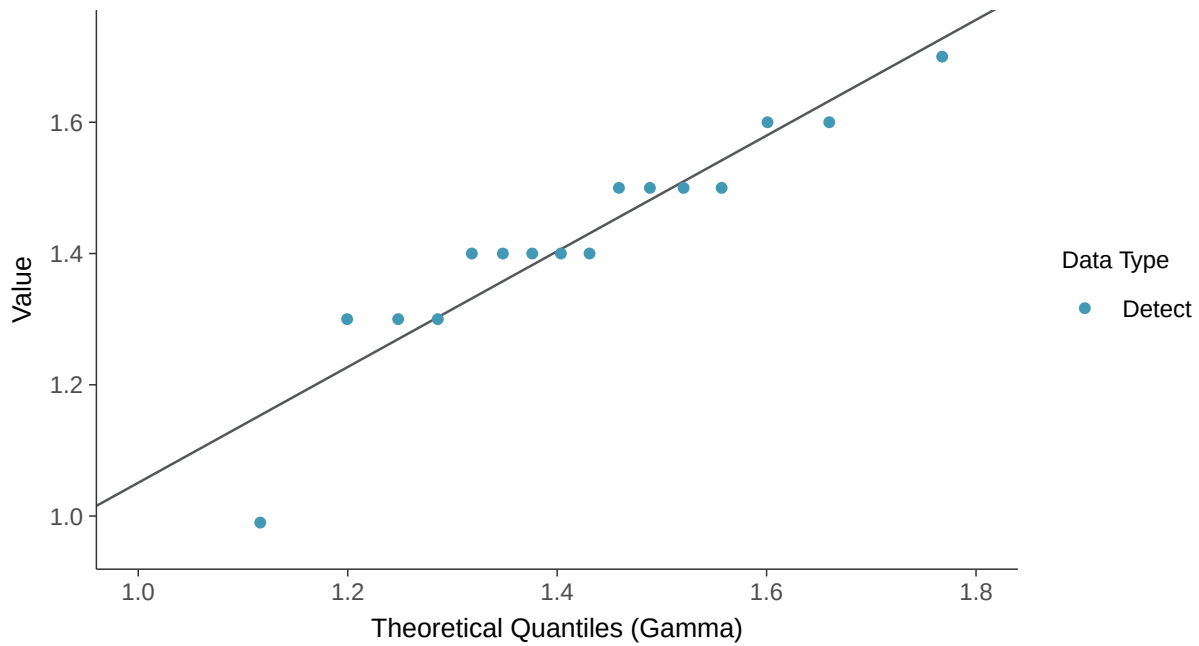




Normal Q-Q plot
Barium, MW-06 (mg/L)

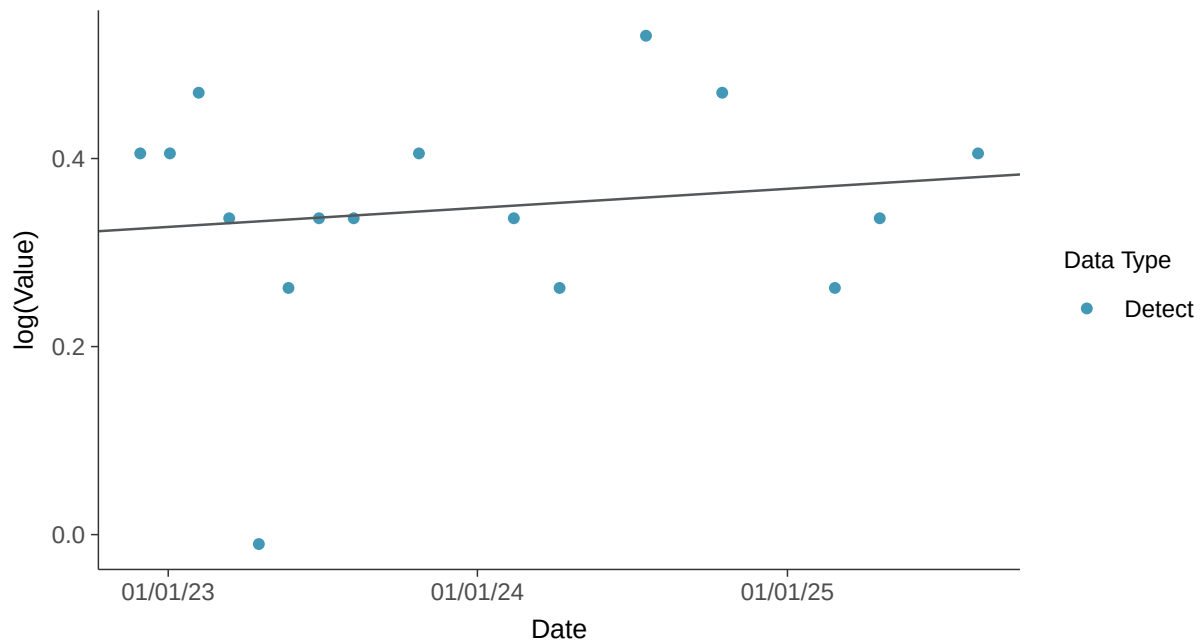


Gamma Q-Q plot
Barium, MW-06 (mg/L)



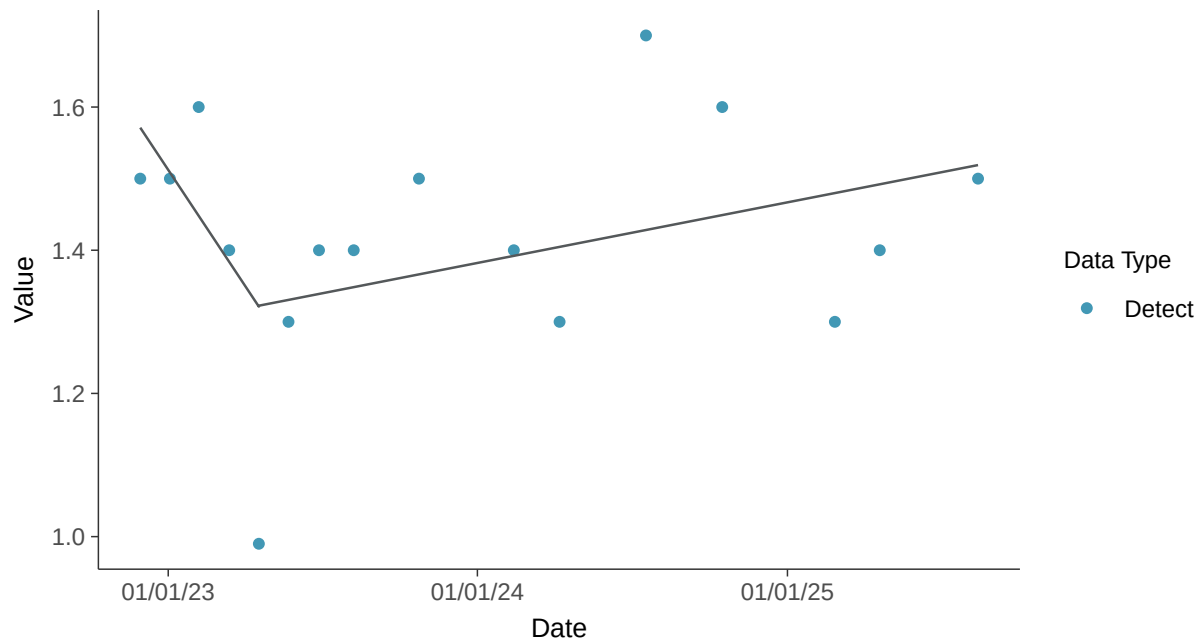
Trend Regression: Lognormal MLE

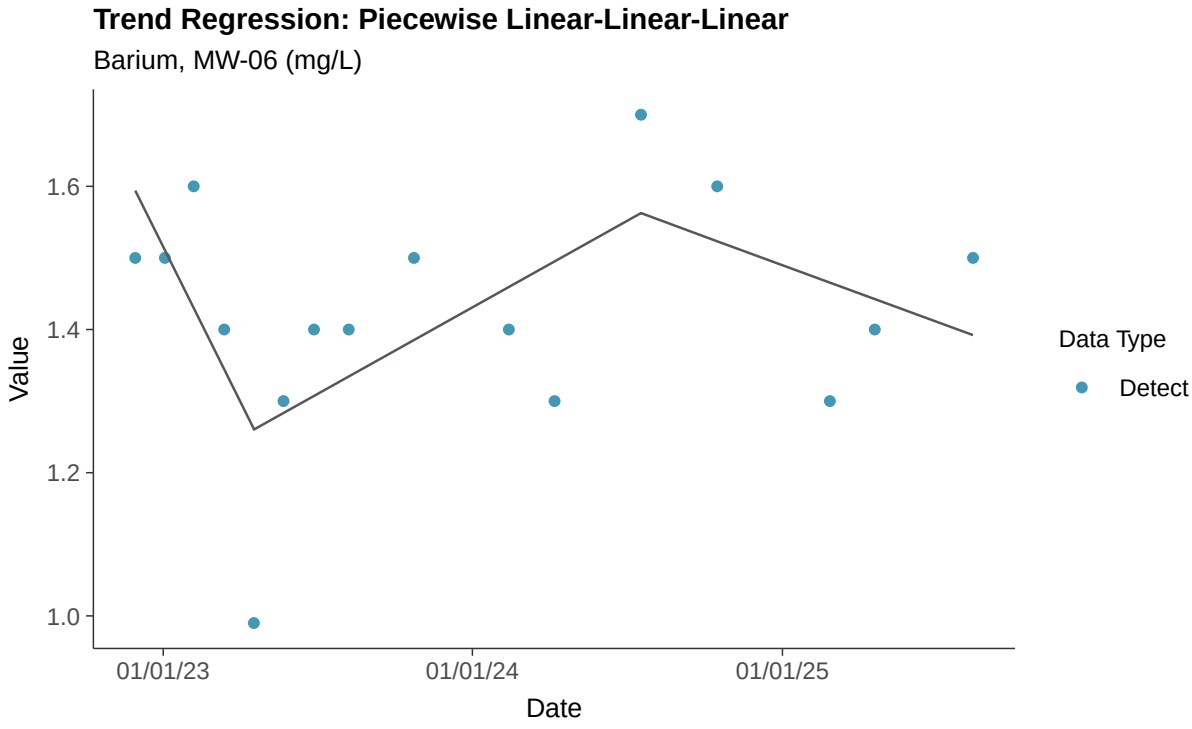
Barium, MW-06 (mg/L)

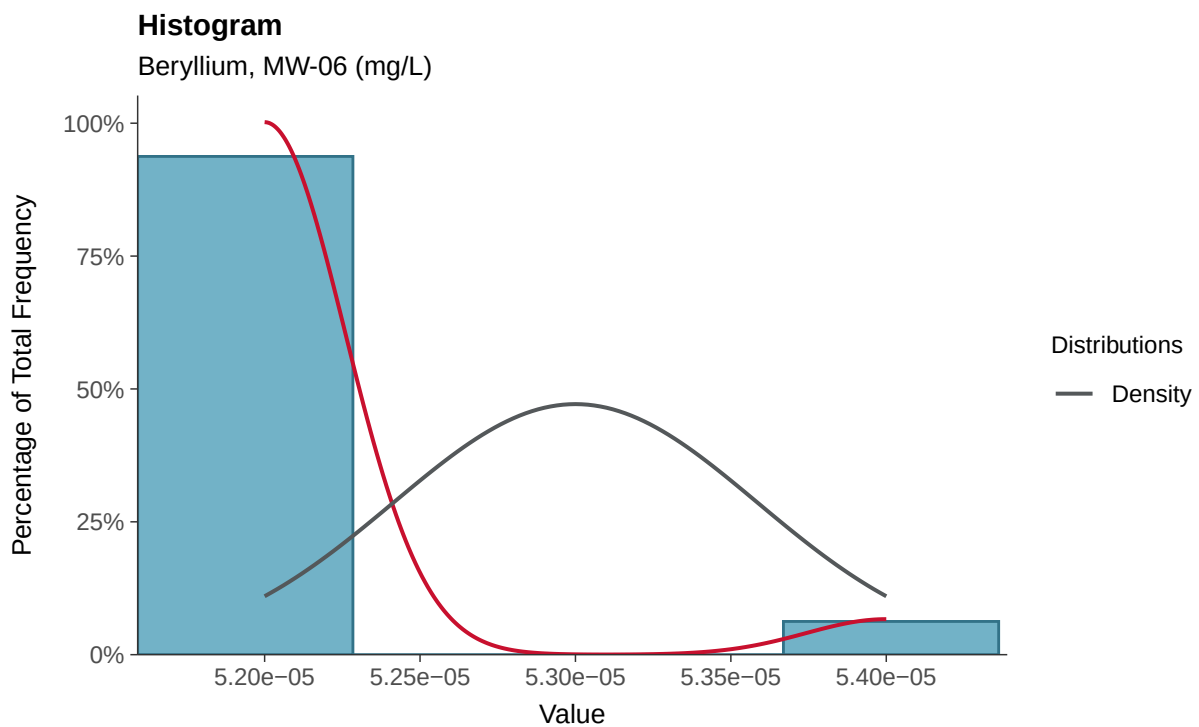


Trend Regression: Piecewise Linear-Linear

Barium, MW-06 (mg/L)

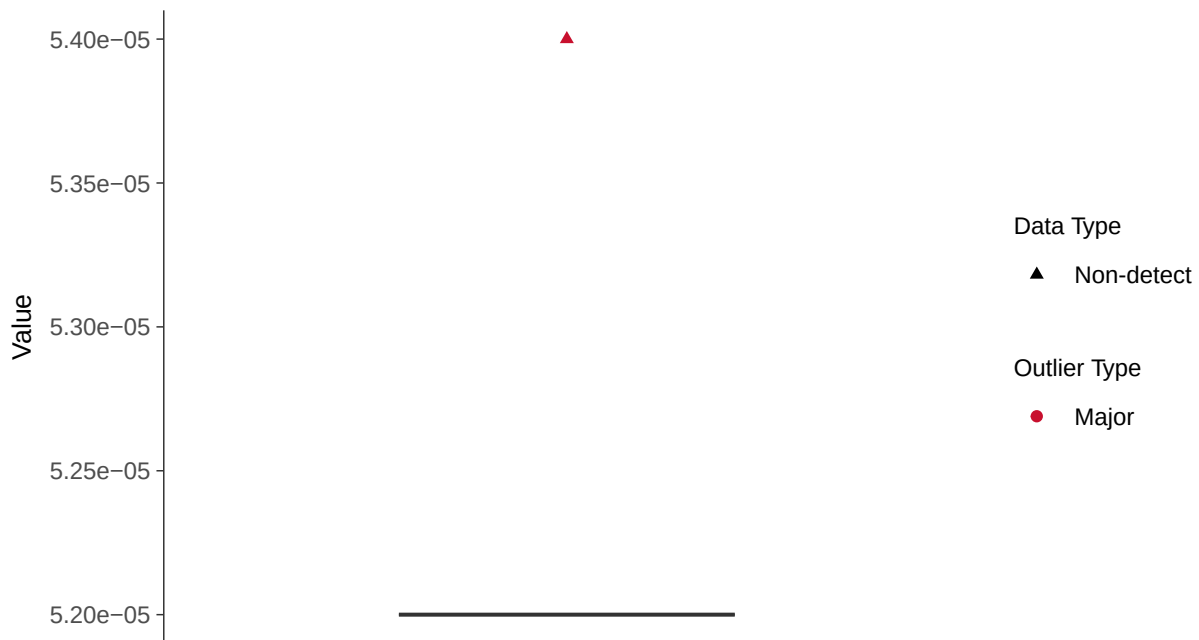






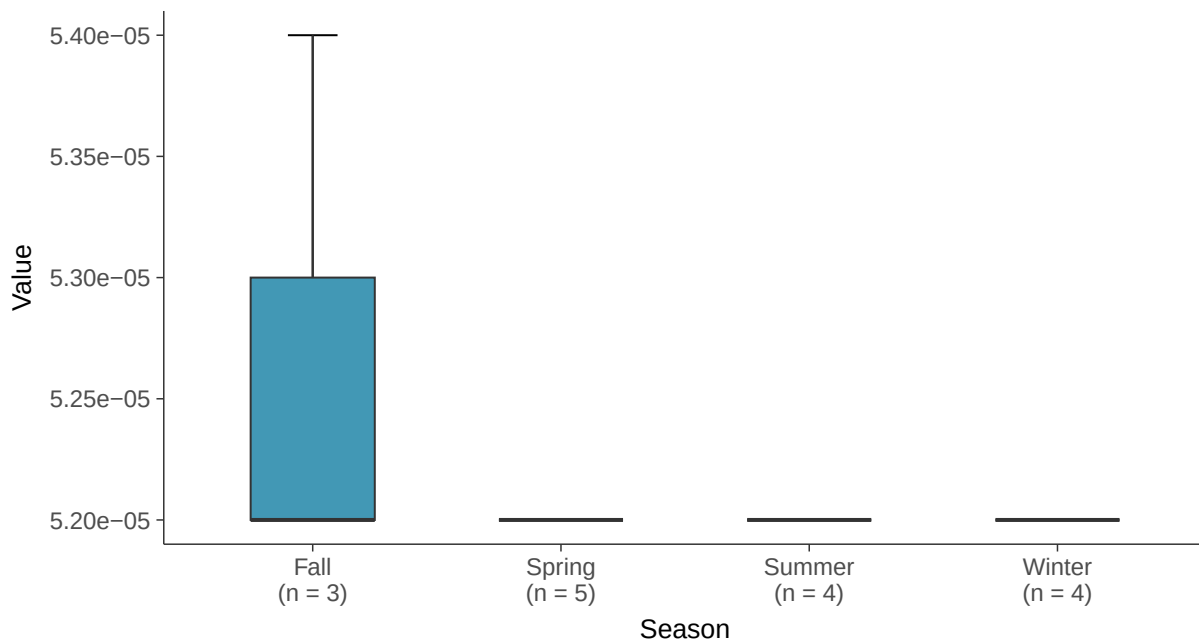
Boxplot

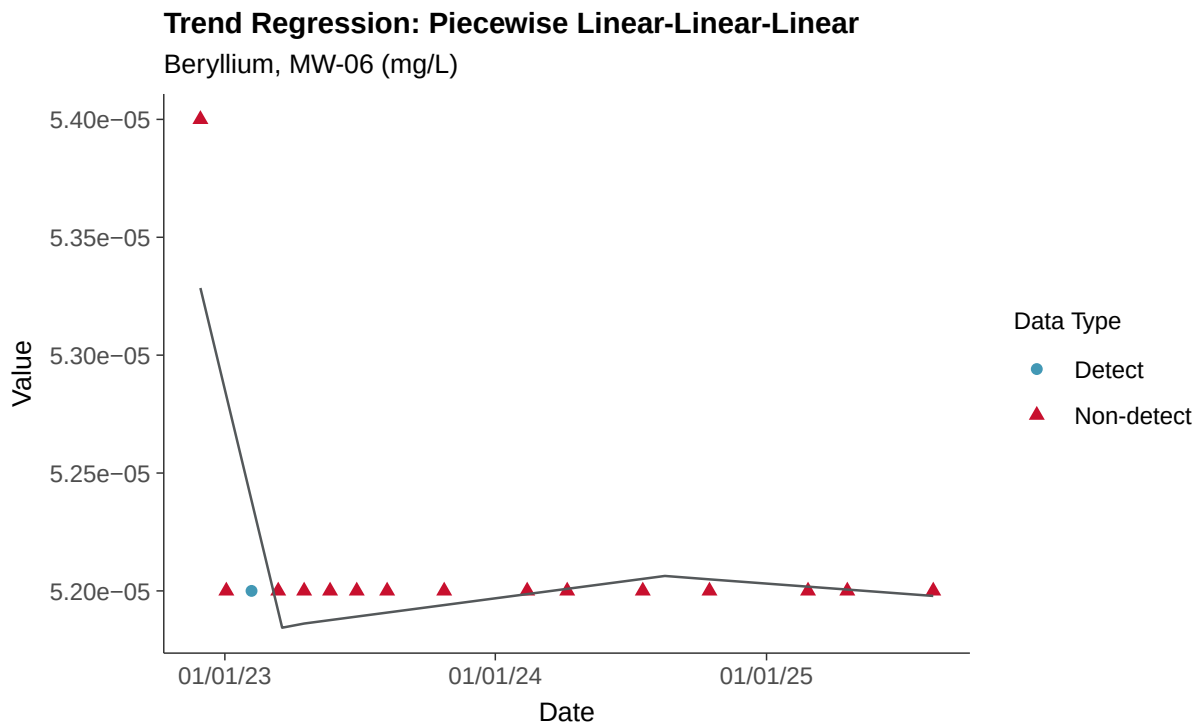
Beryllium, MW-06 (mg/L)



Boxplot by Season

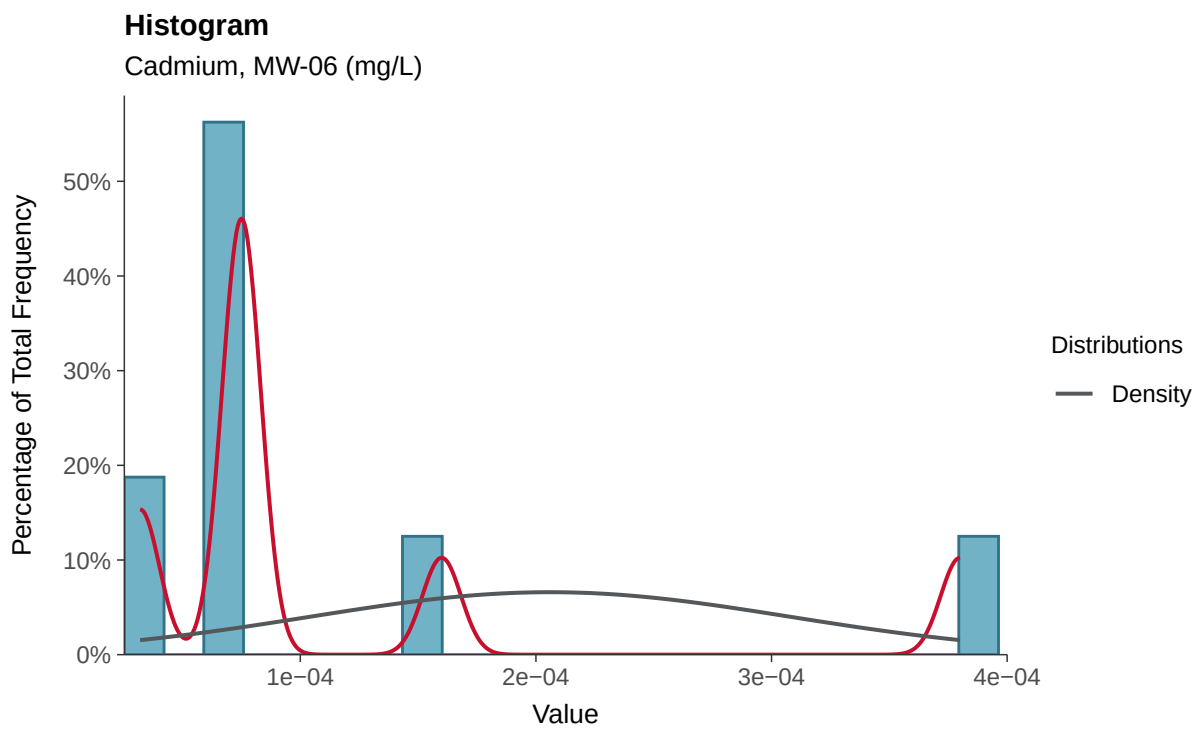
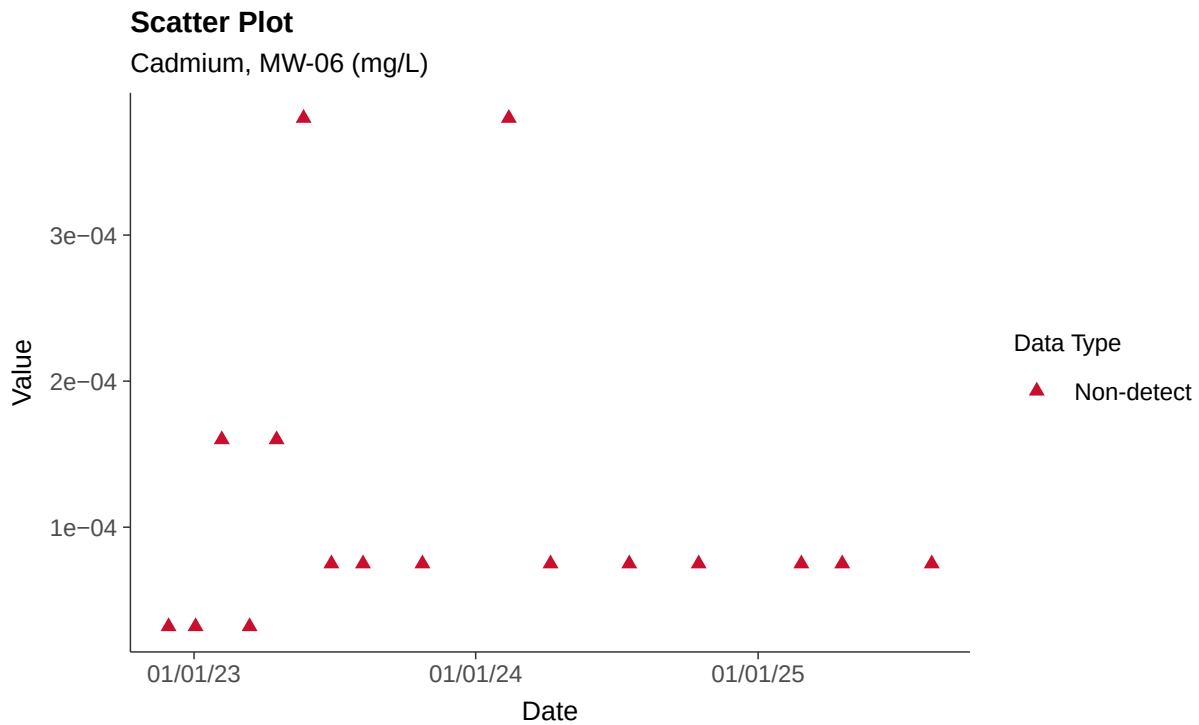
Beryllium, MW-06 (mg/L)





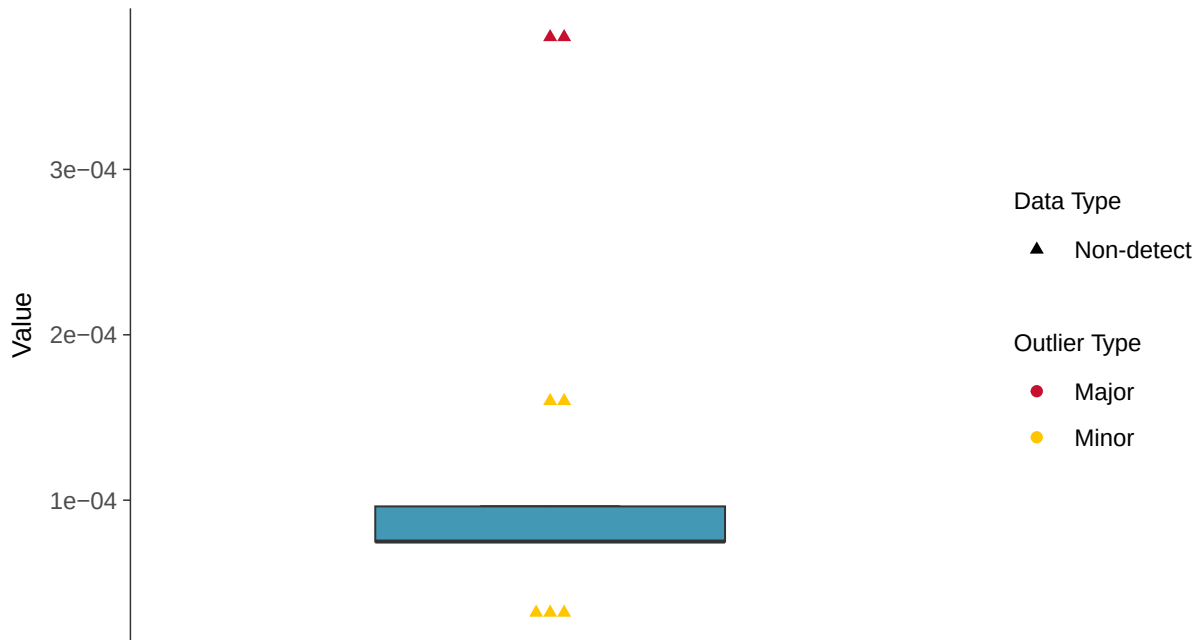
Appendix IV: Cadmium, MW-06

ID: 16_1_4_106



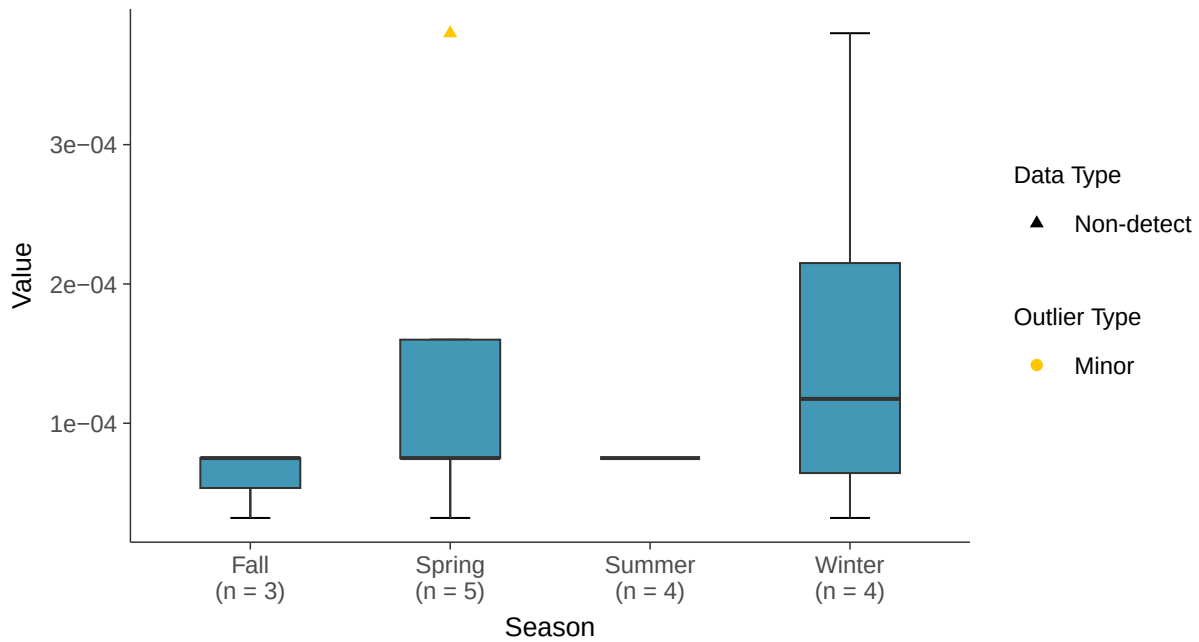
Boxplot

Cadmium, MW-06 (mg/L)

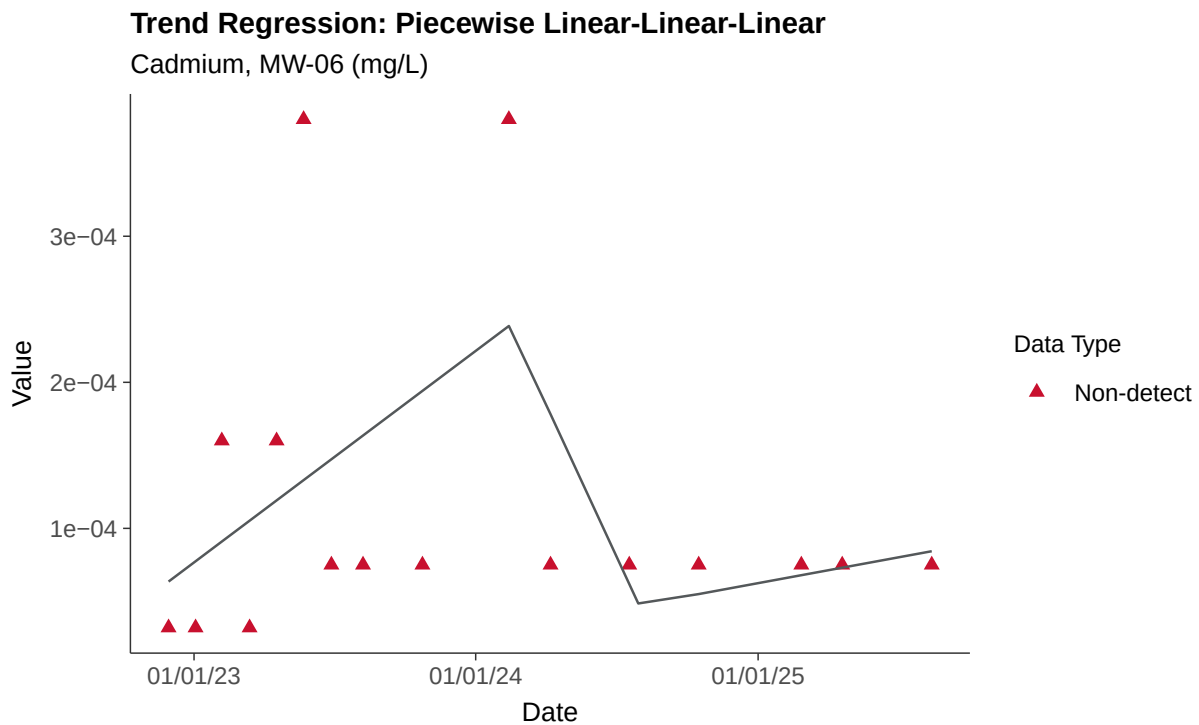


Boxplot by Season

Cadmium, MW-06 (mg/L)

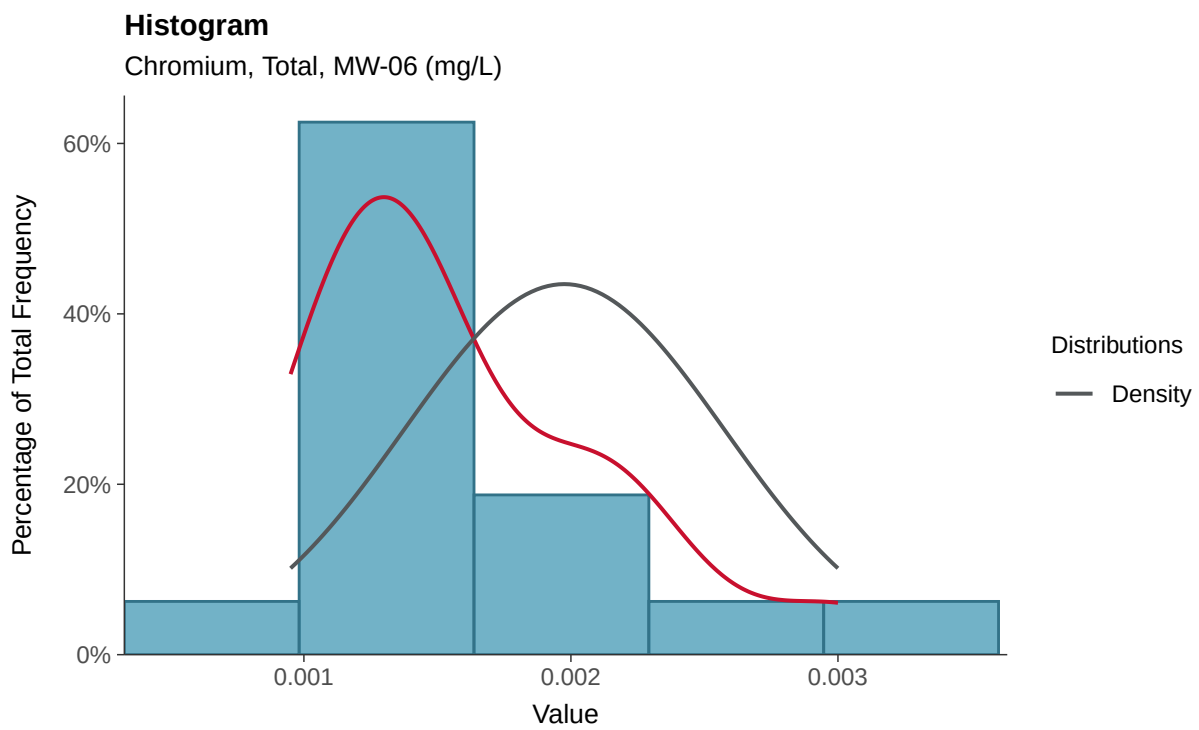
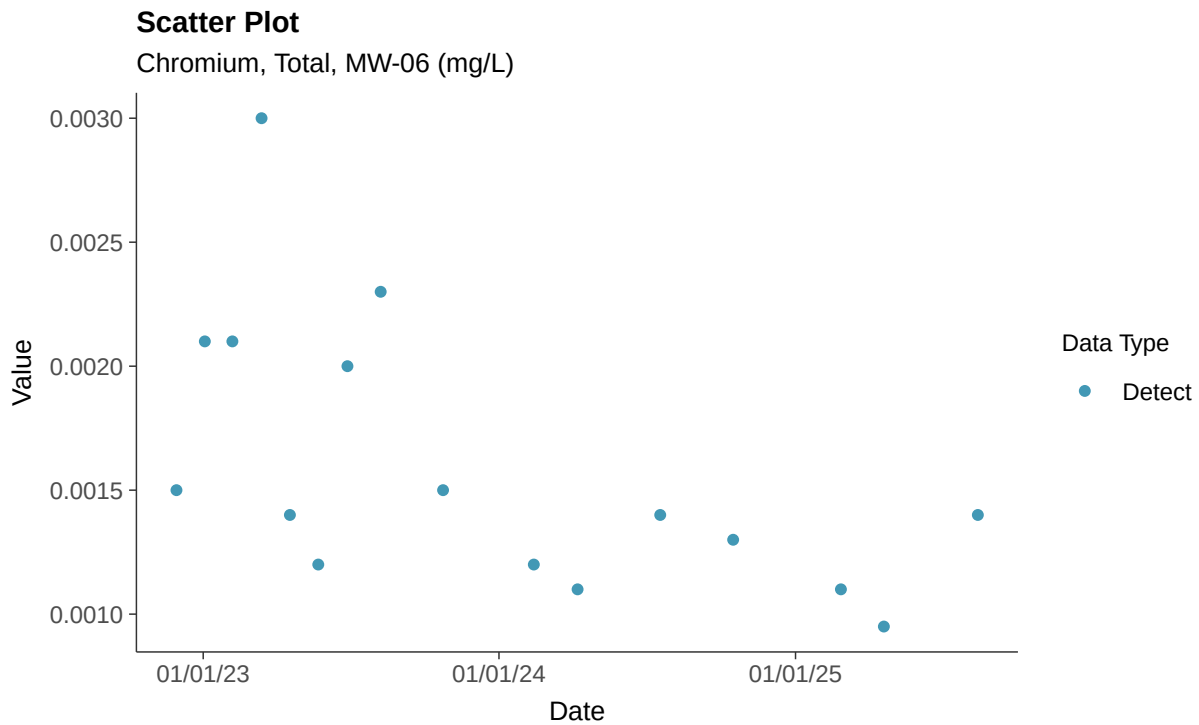


Cadmium, MW-06 (mg/L)



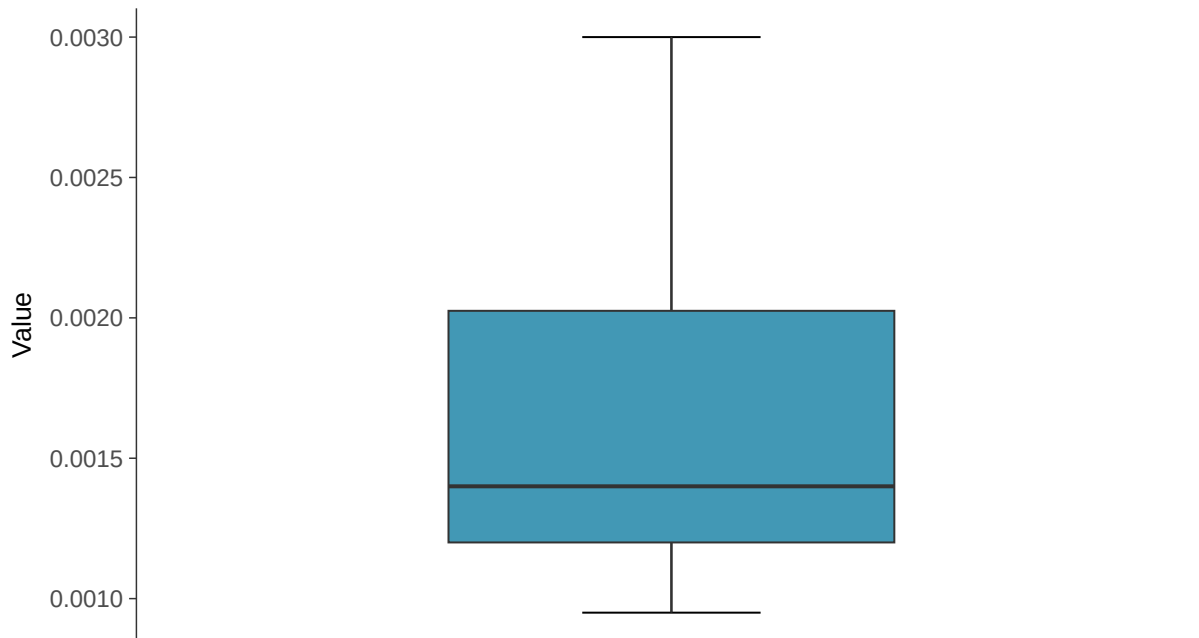
Appendix IV: Chromium, Total, MW-06

ID: 16_1_4_109



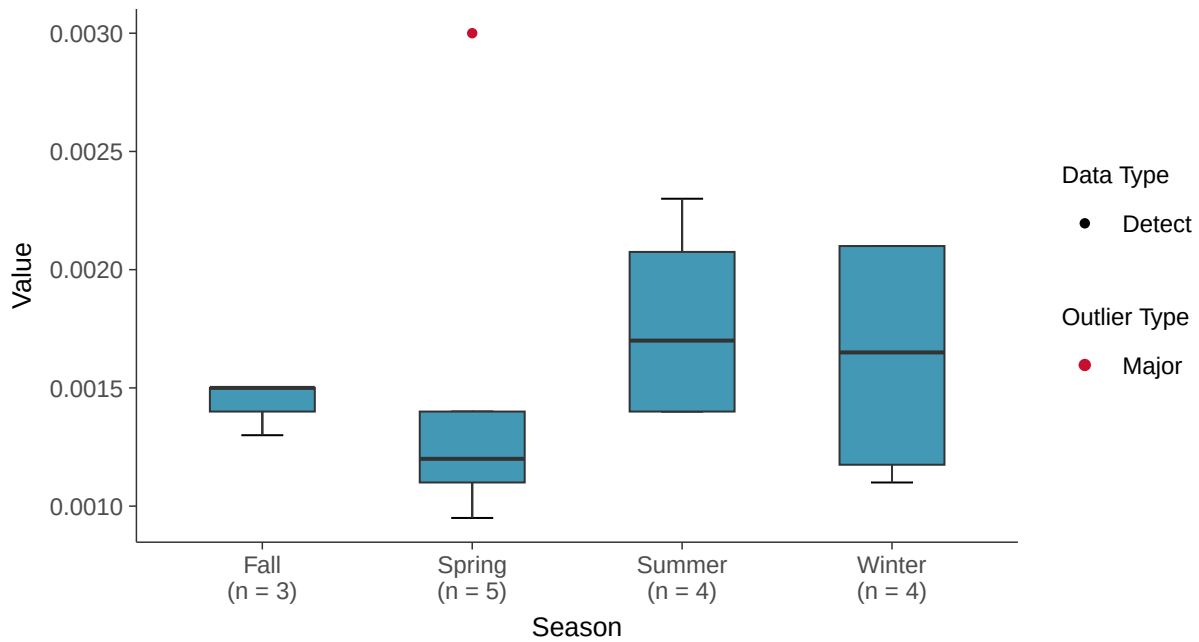
Boxplot

Chromium, Total, MW-06 (mg/L)



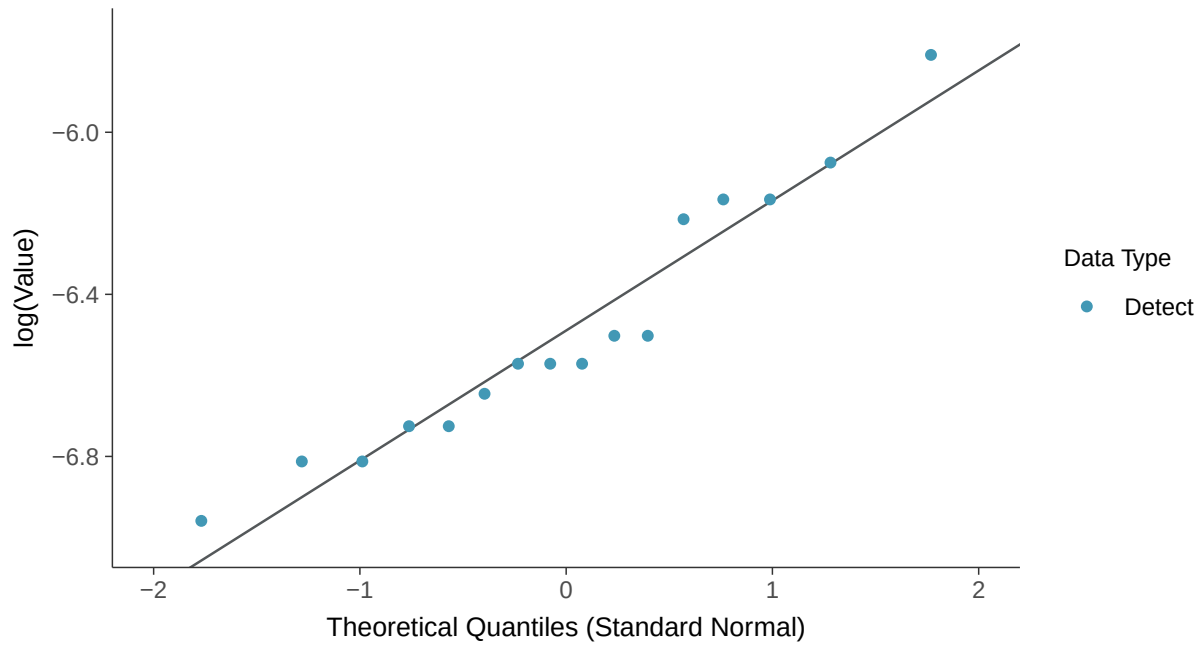
Boxplot by Season

Chromium, Total, MW-06 (mg/L)



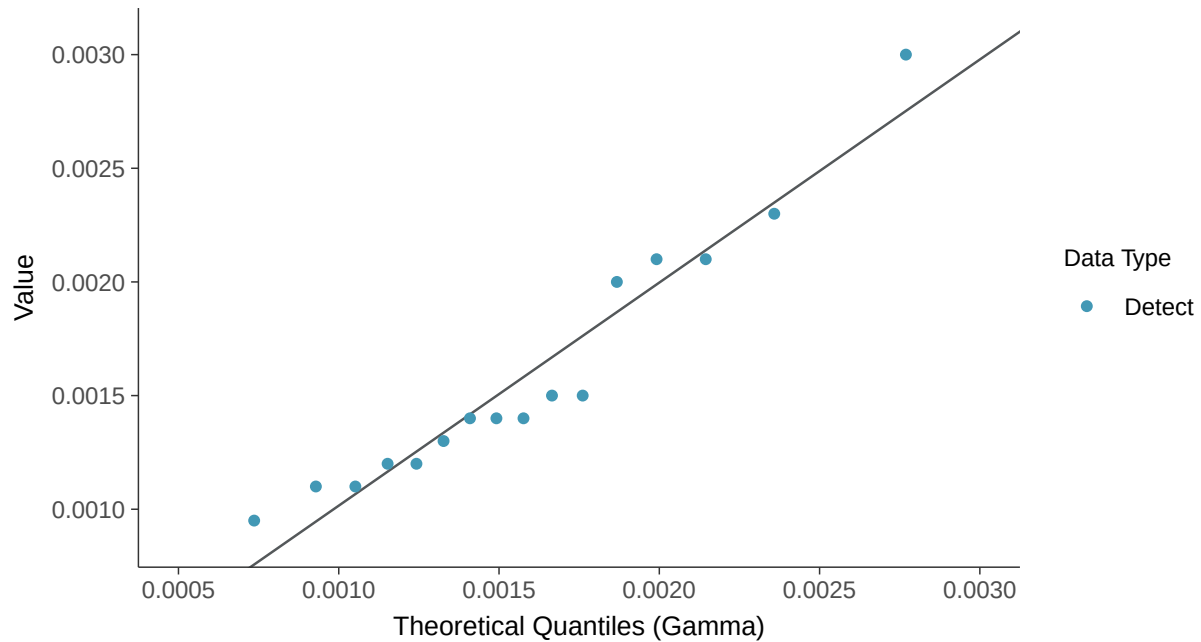
Lognormal Q-Q plot

Chromium, Total, MW-06 (mg/L)



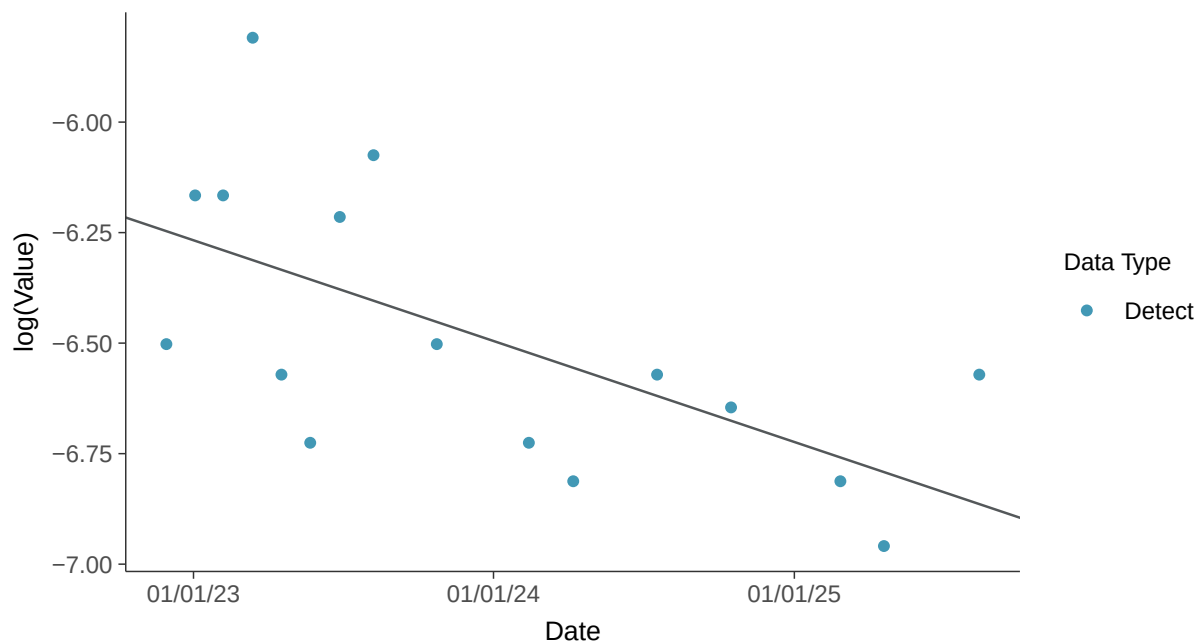
Gamma Q-Q plot

Chromium, Total, MW-06 (mg/L)



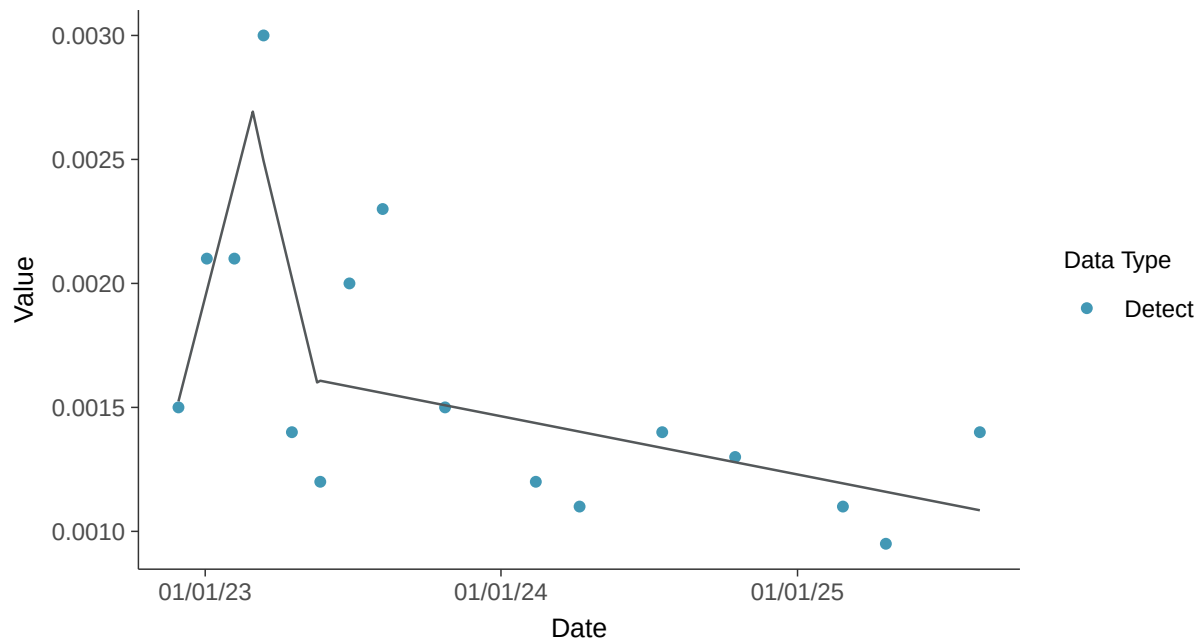
Trend Regression: Lognormal MLE

Chromium, Total, MW-06 (mg/L)



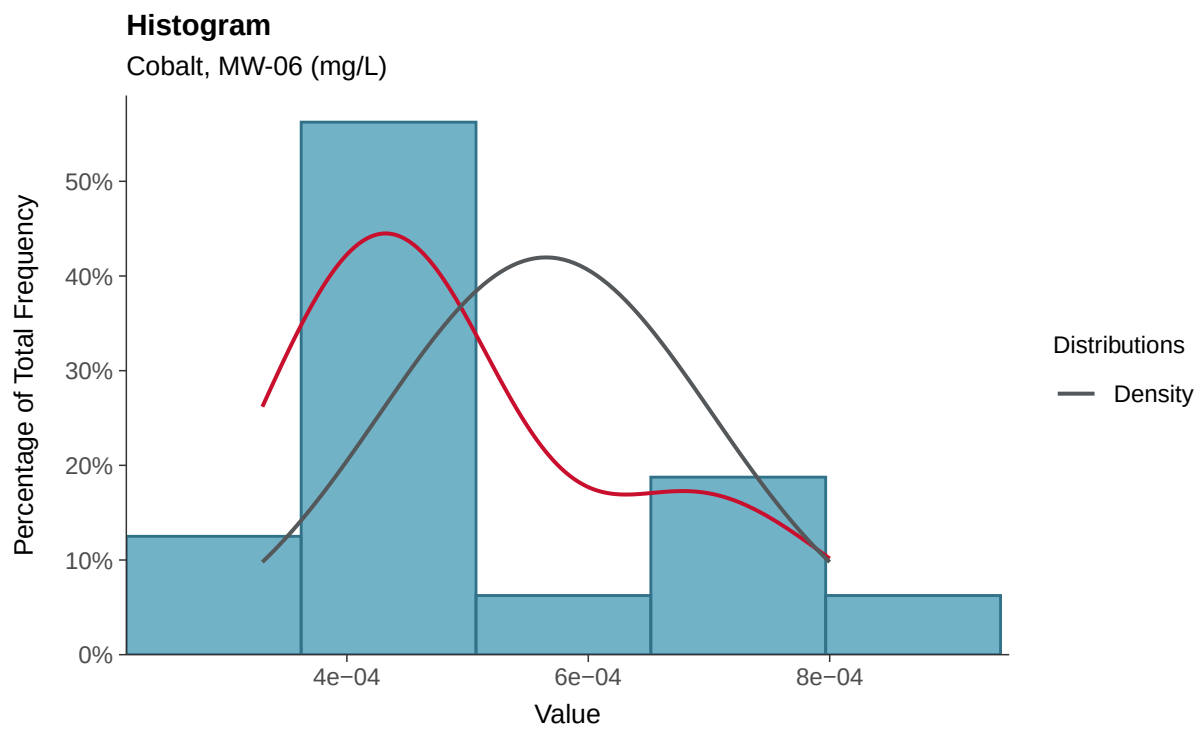
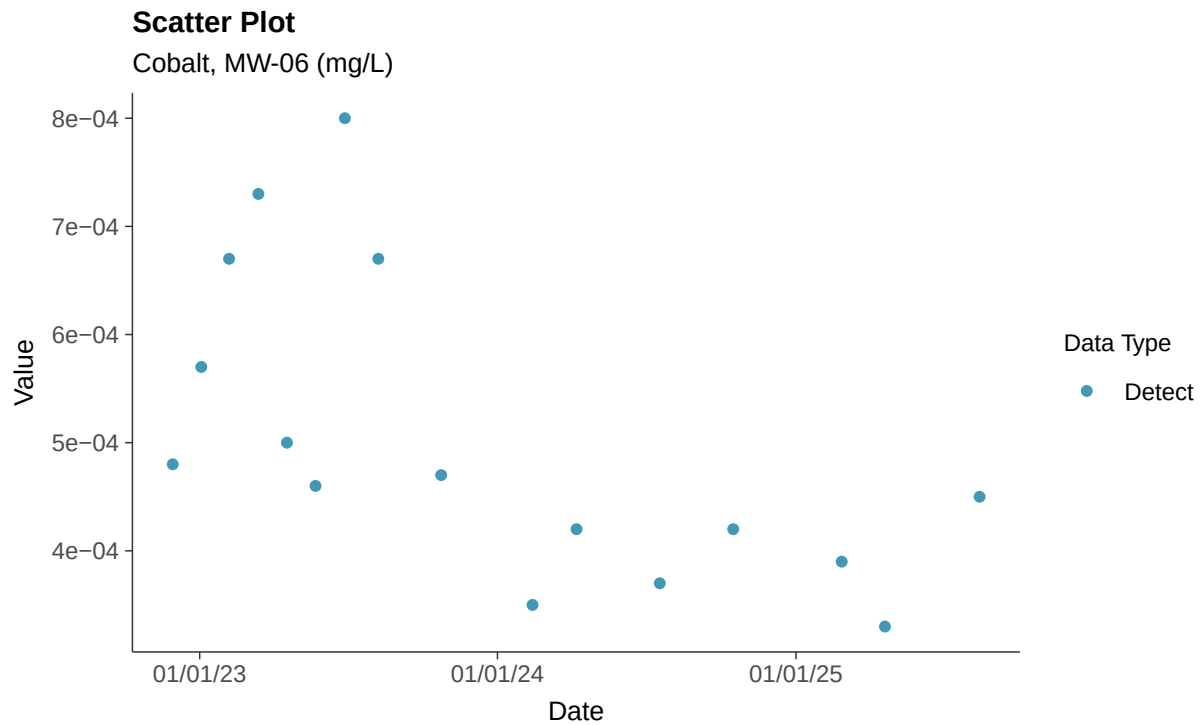
Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-06 (mg/L)



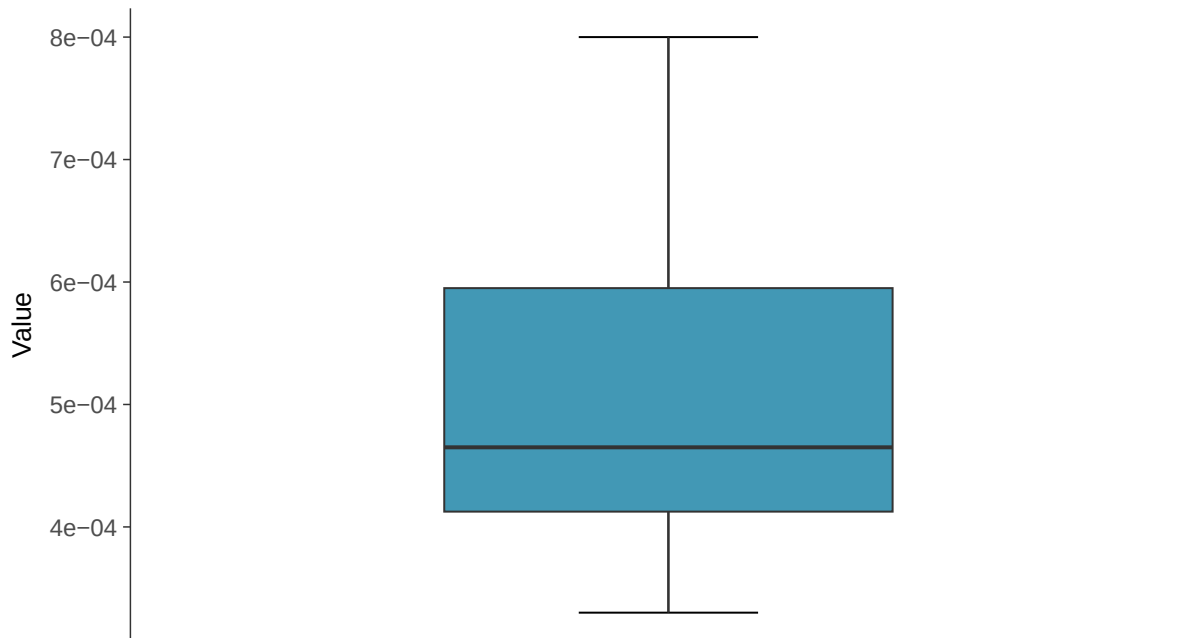
Appendix IV: Cobalt, MW-06

ID: 16_1_4_110



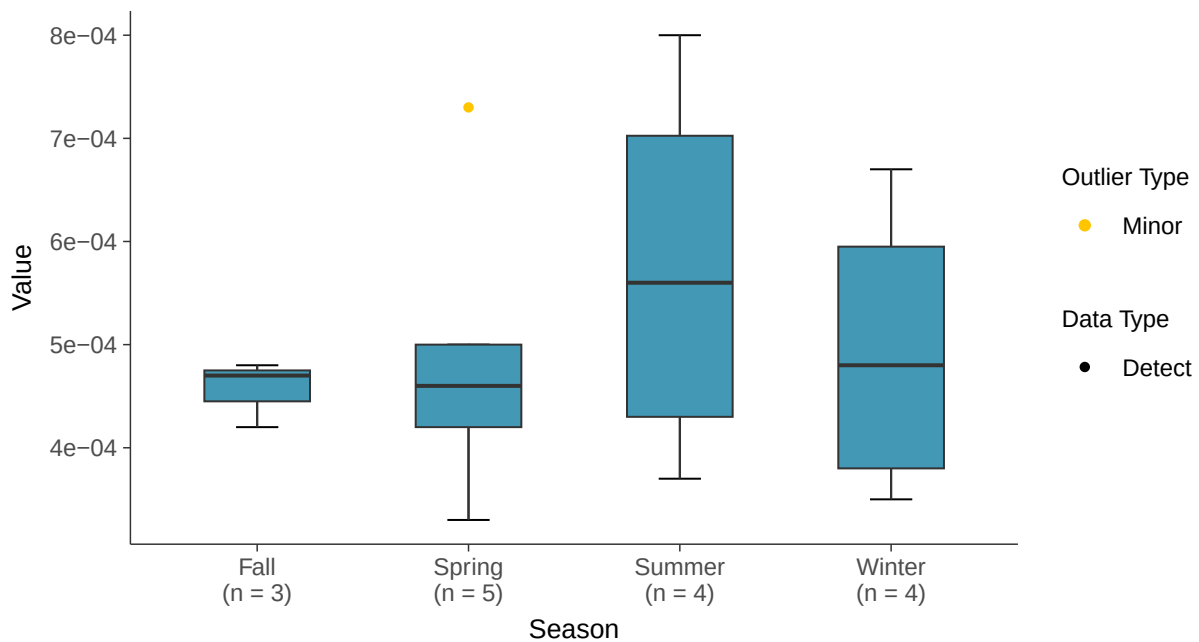
Boxplot

Cobalt, MW-06 (mg/L)



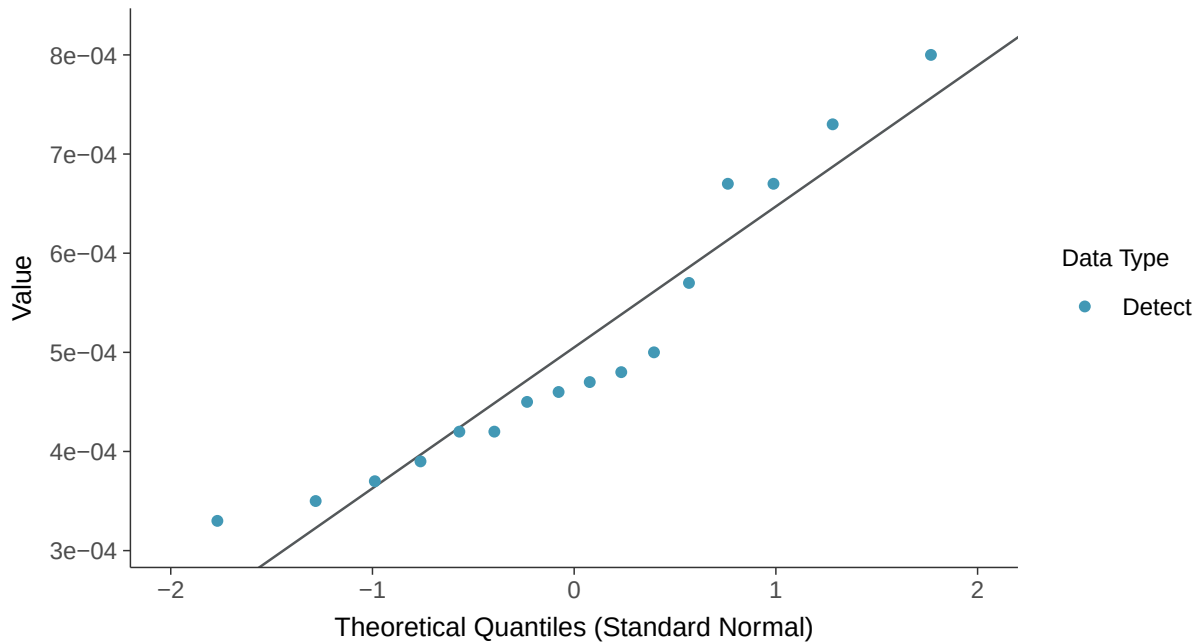
Boxplot by Season

Cobalt, MW-06 (mg/L)



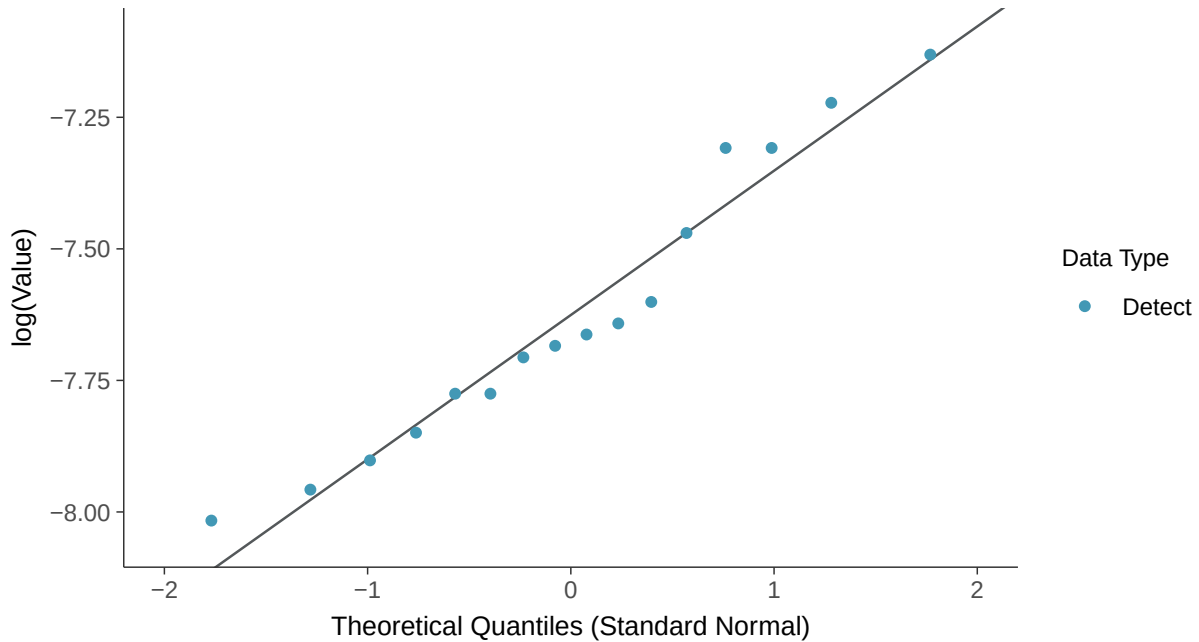
Normal Q-Q plot

Cobalt, MW-06 (mg/L)



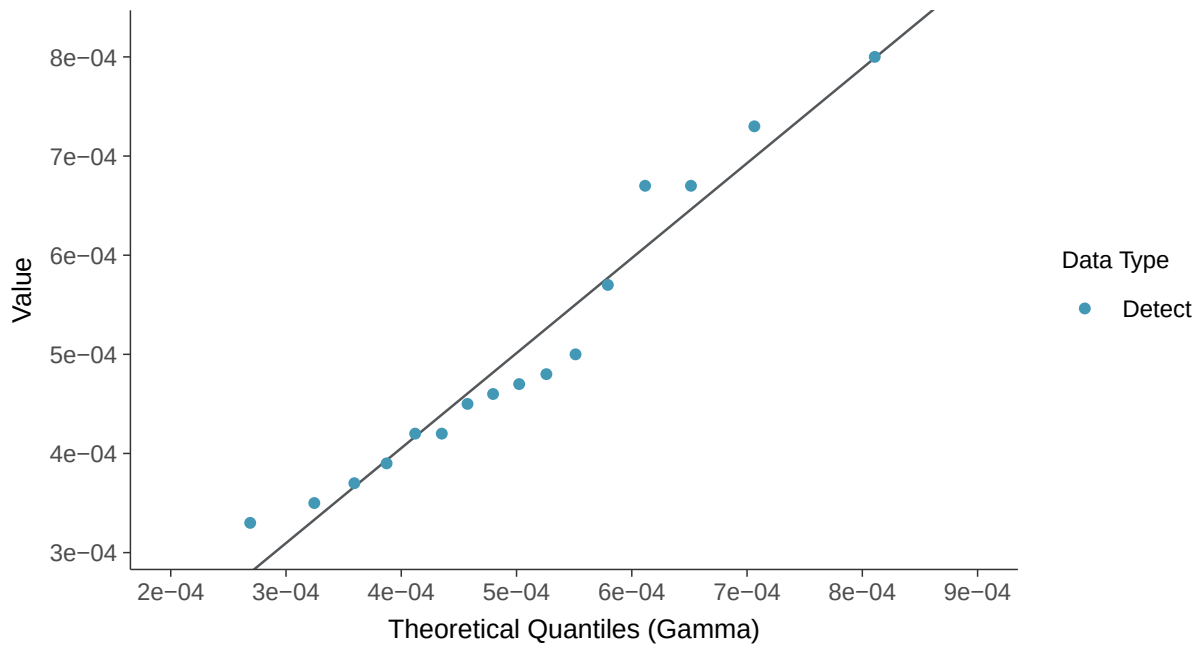
Lognormal Q-Q plot

Cobalt, MW-06 (mg/L)



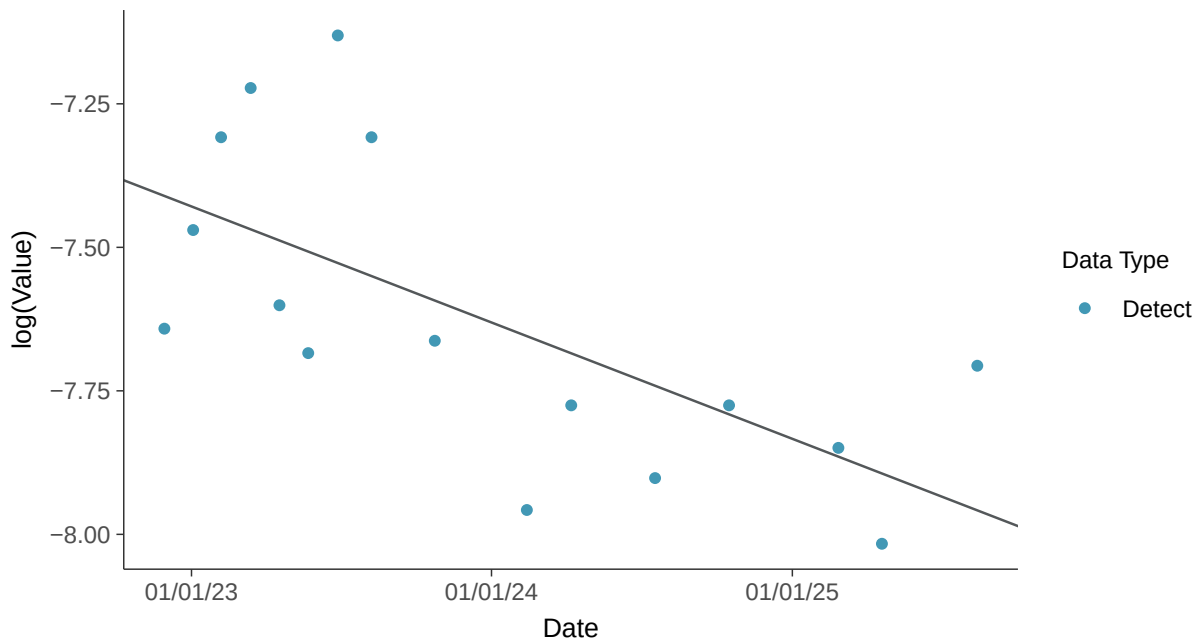
Gamma Q-Q plot

Cobalt, MW-06 (mg/L)



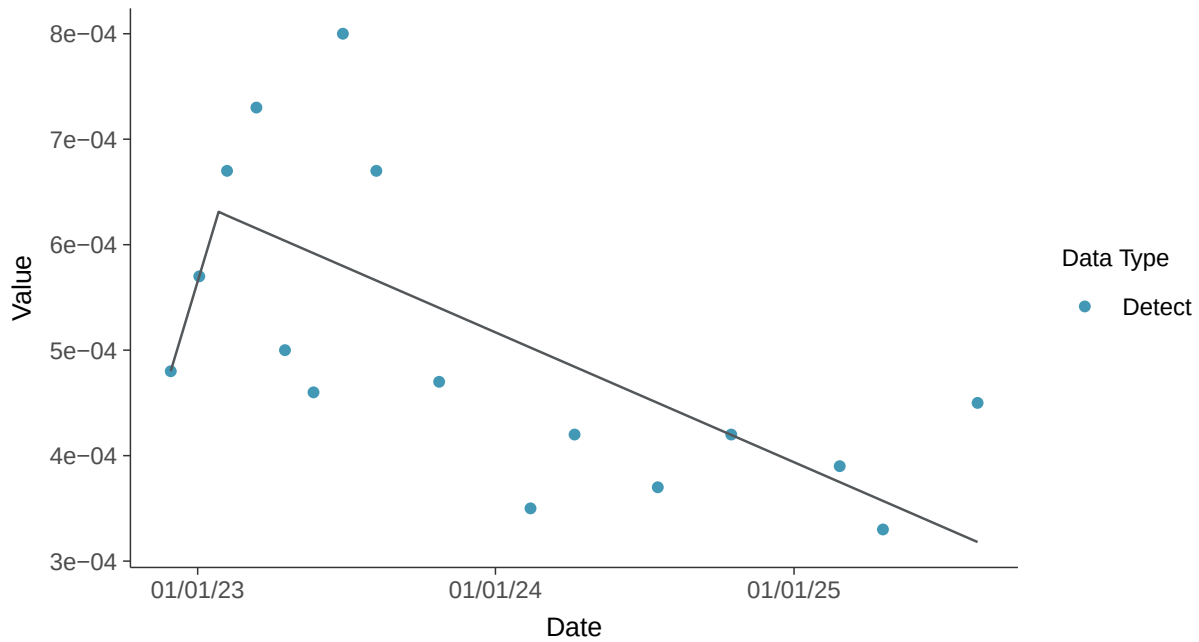
Trend Regression: Lognormal MLE

Cobalt, MW-06 (mg/L)



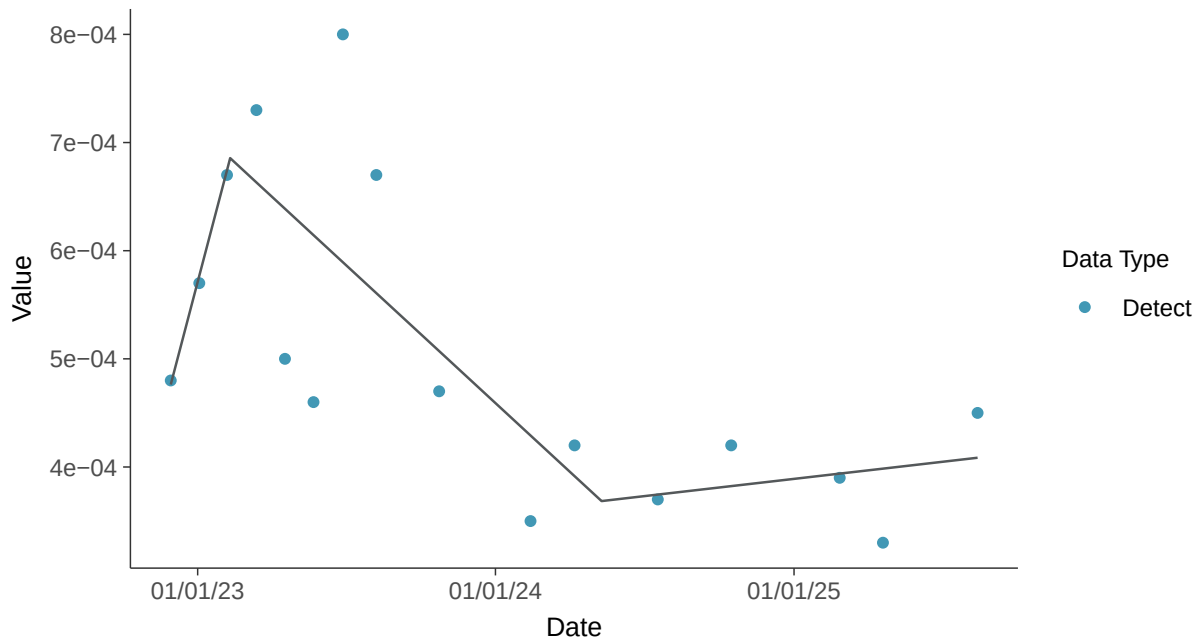
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-06 (mg/L)

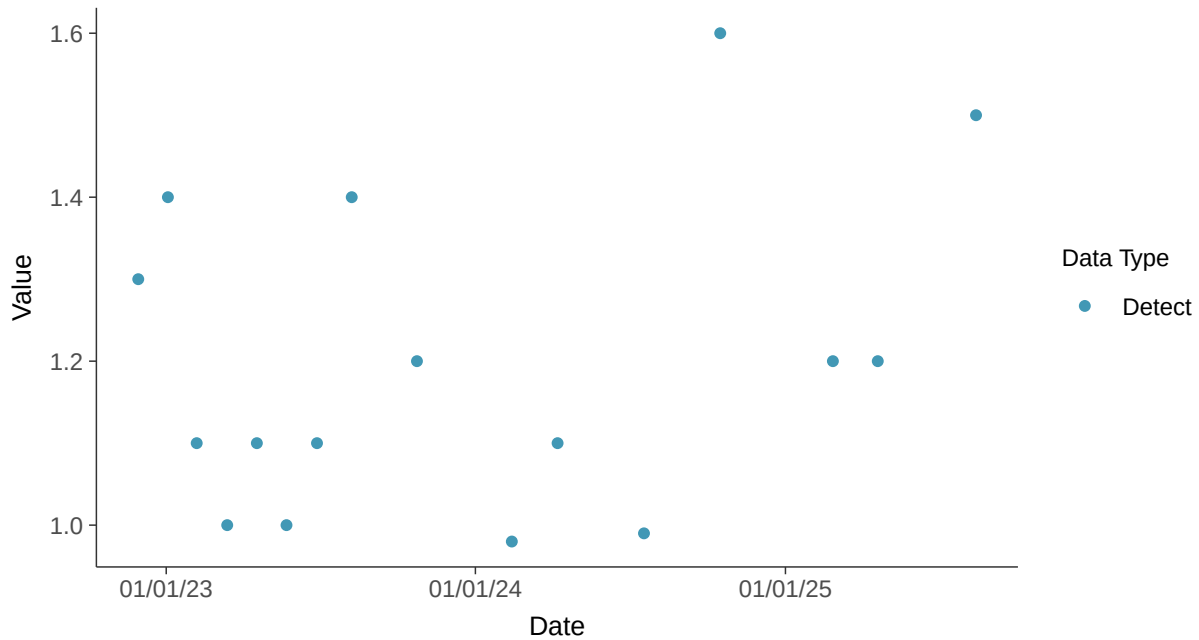


Appendix IV: Fluoride (App IV), MW-06

ID: 16_1_4_113

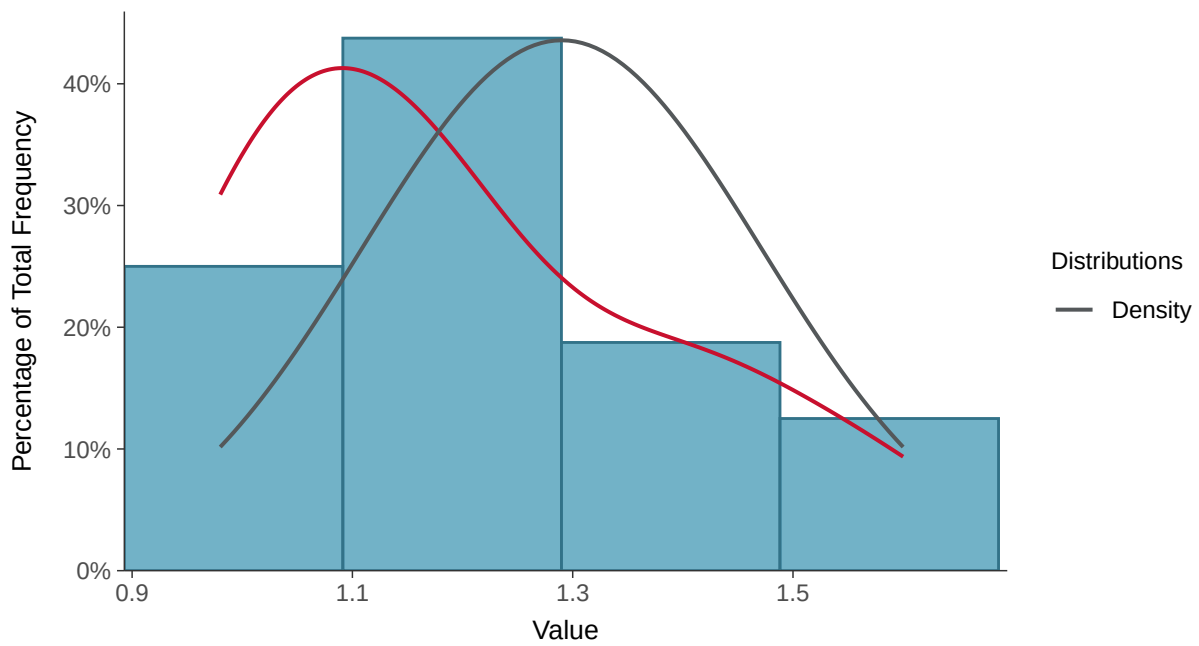
Scatter Plot

Fluoride (App IV), MW-06 (mg/L)



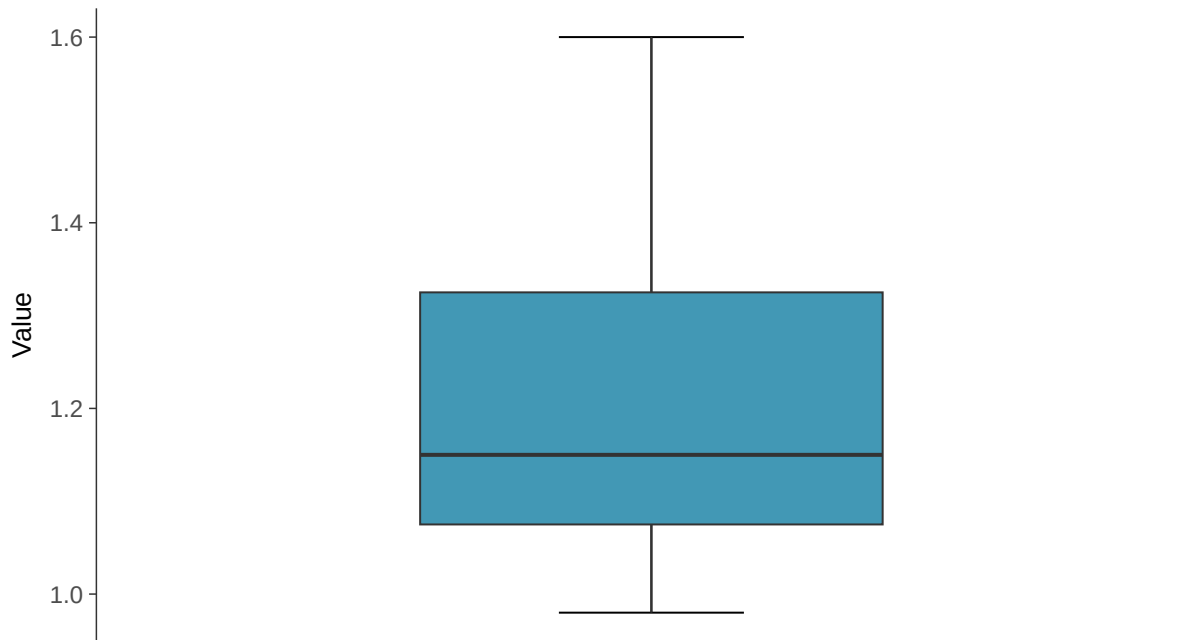
Histogram

Fluoride (App IV), MW-06 (mg/L)



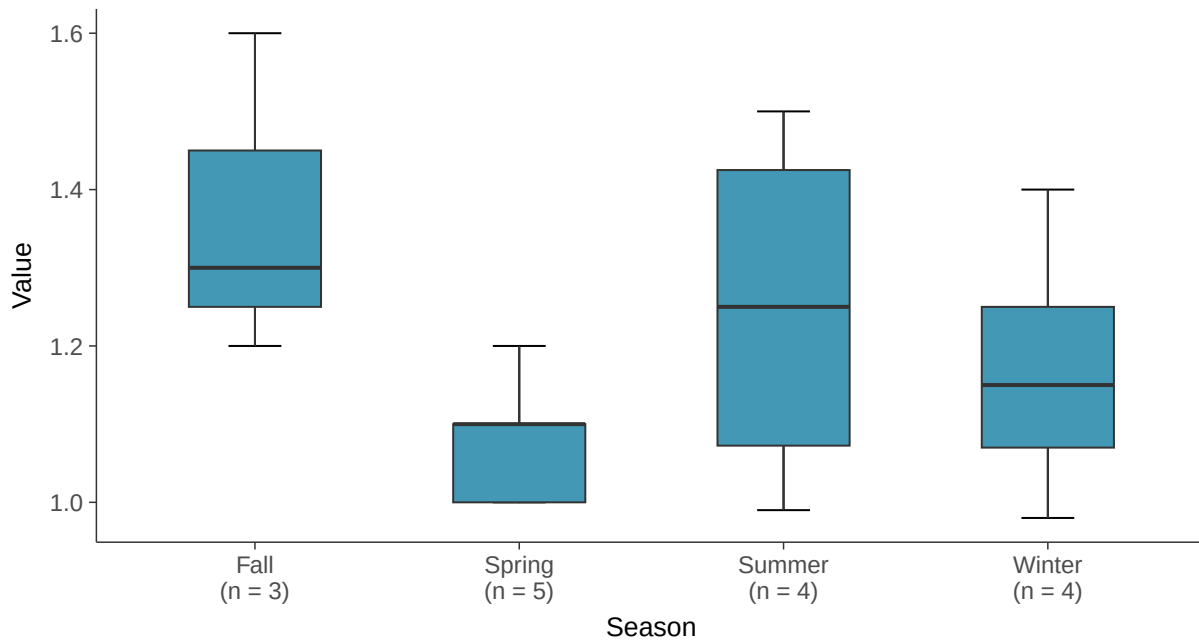
Boxplot

Fluoride (App IV), MW-06 (mg/L)



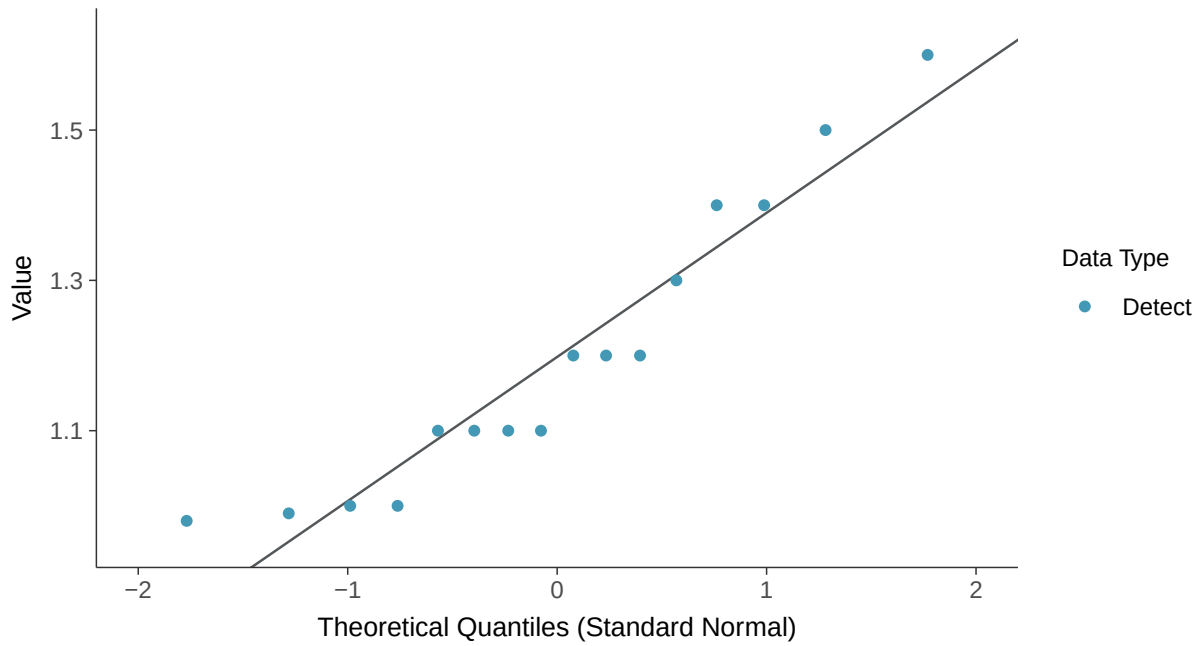
Boxplot by Season

Fluoride (App IV), MW-06 (mg/L)



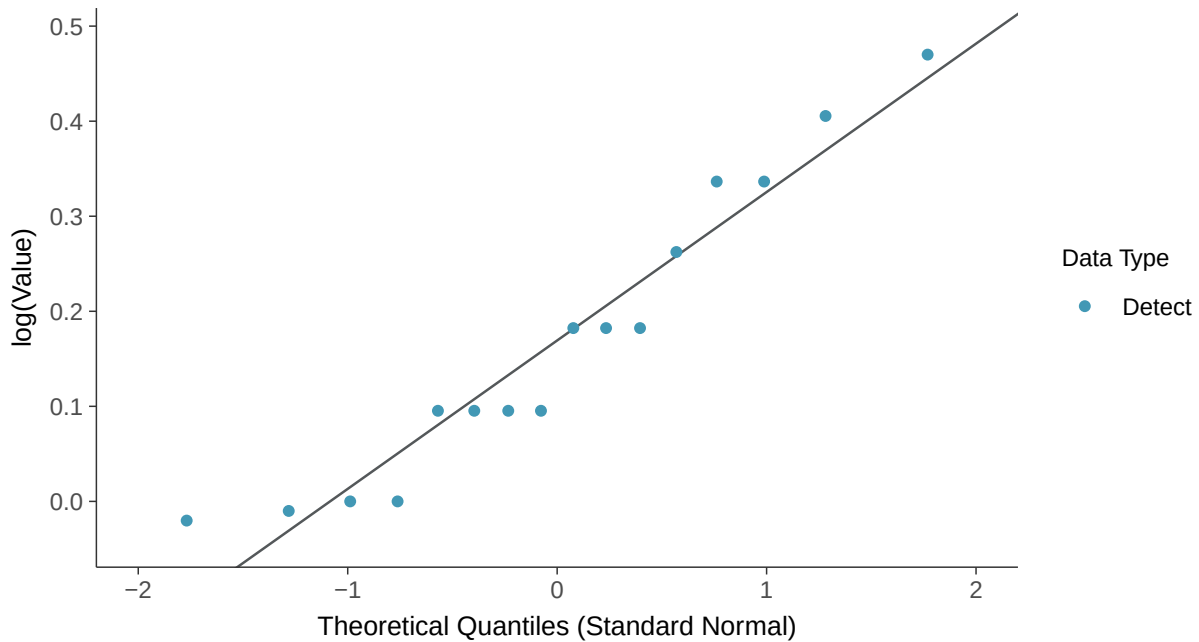
Normal Q-Q plot

Fluoride (App IV), MW-06 (mg/L)



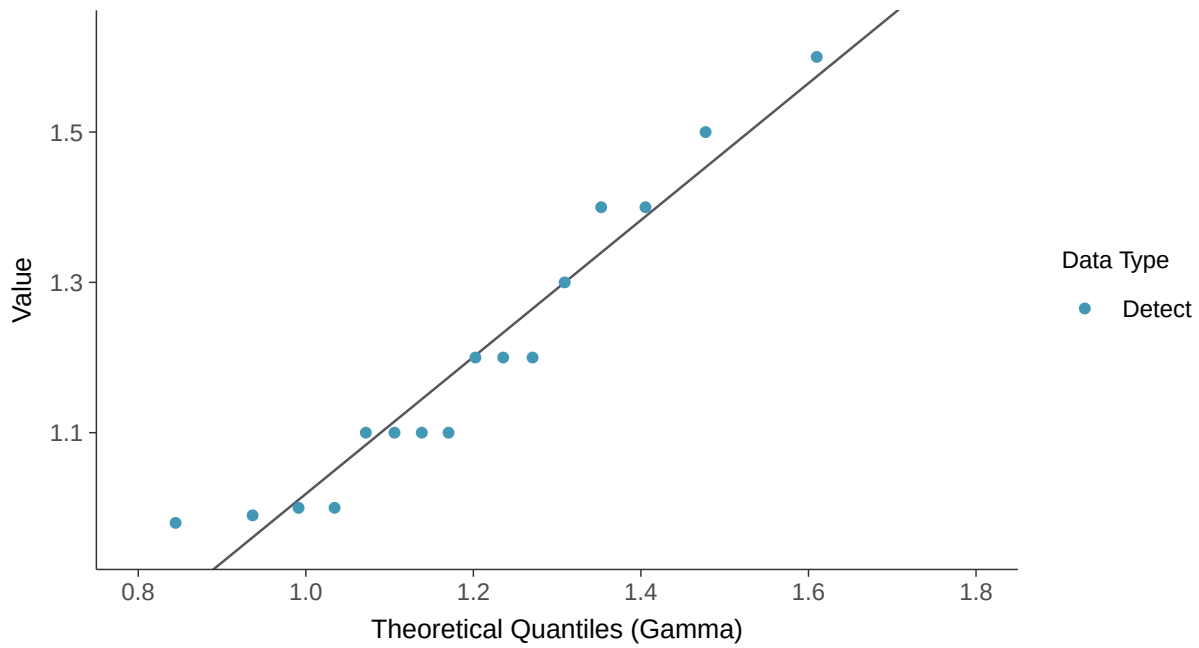
Lognormal Q-Q plot

Fluoride (App IV), MW-06 (mg/L)



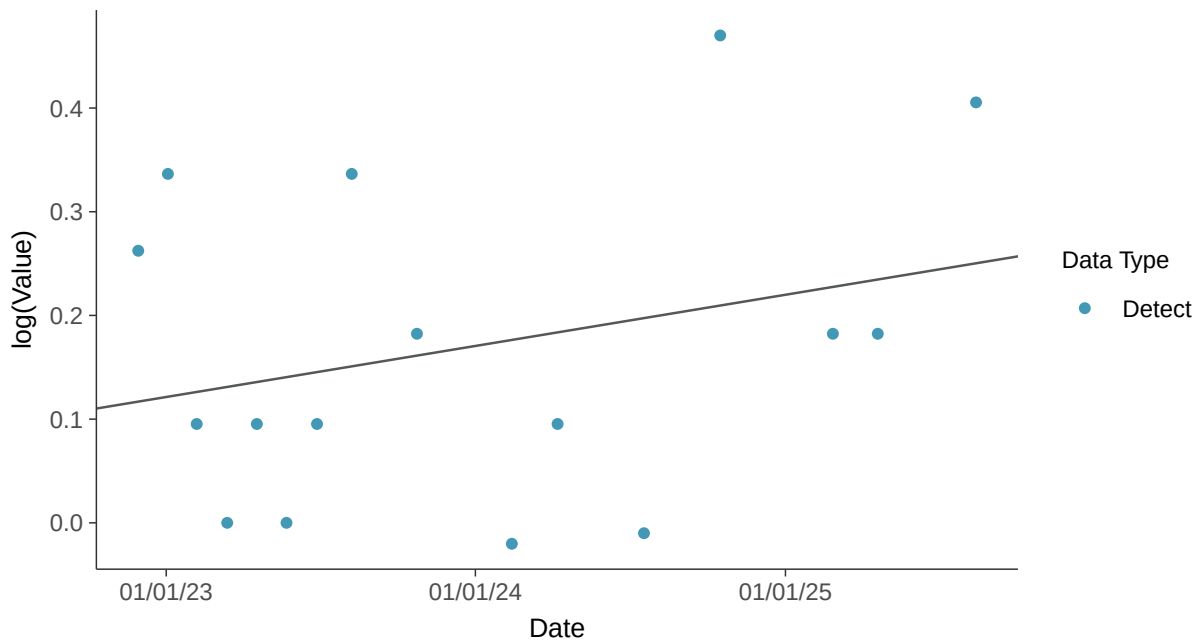
Gamma Q-Q plot

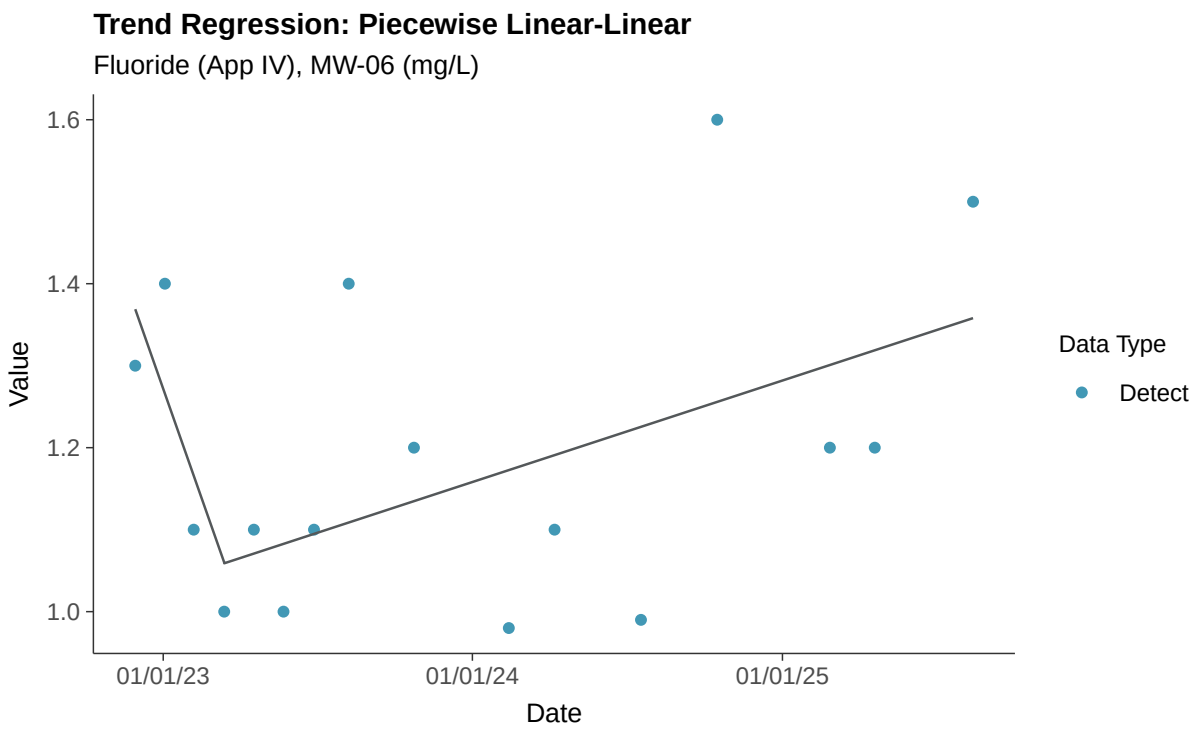
Fluoride (App IV), MW-06 (mg/L)

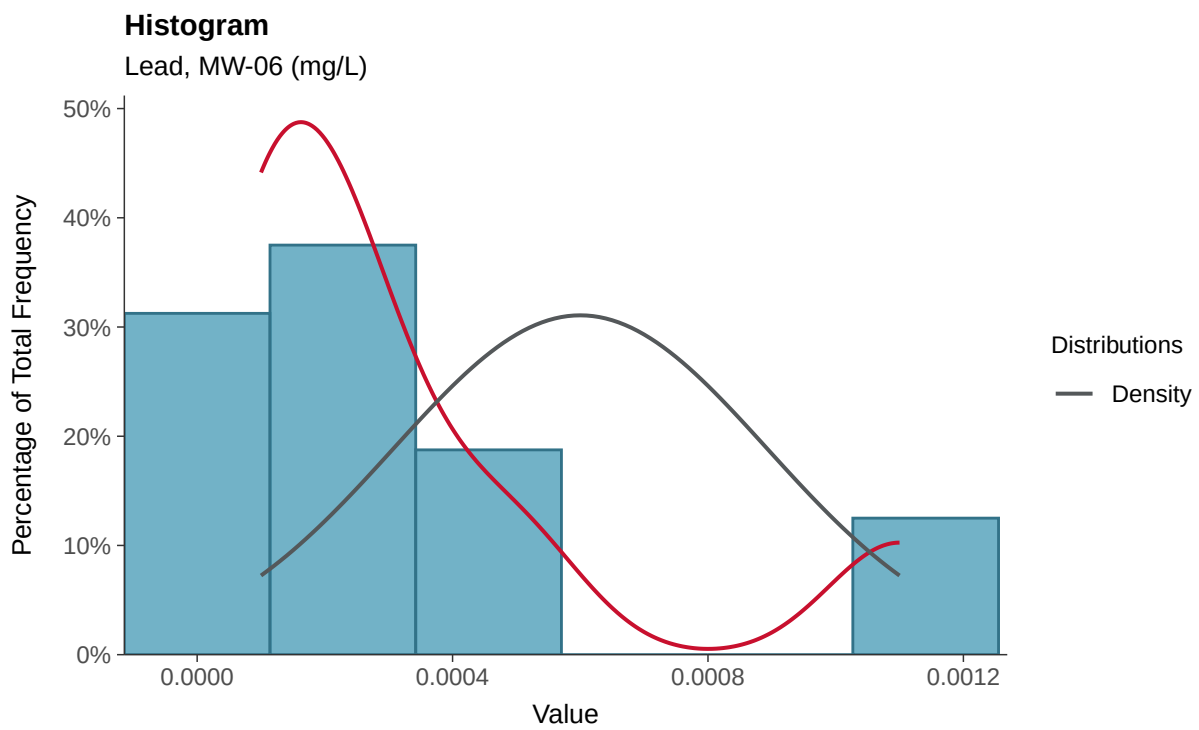


Trend Regression: Lognormal MLE

Fluoride (App IV), MW-06 (mg/L)

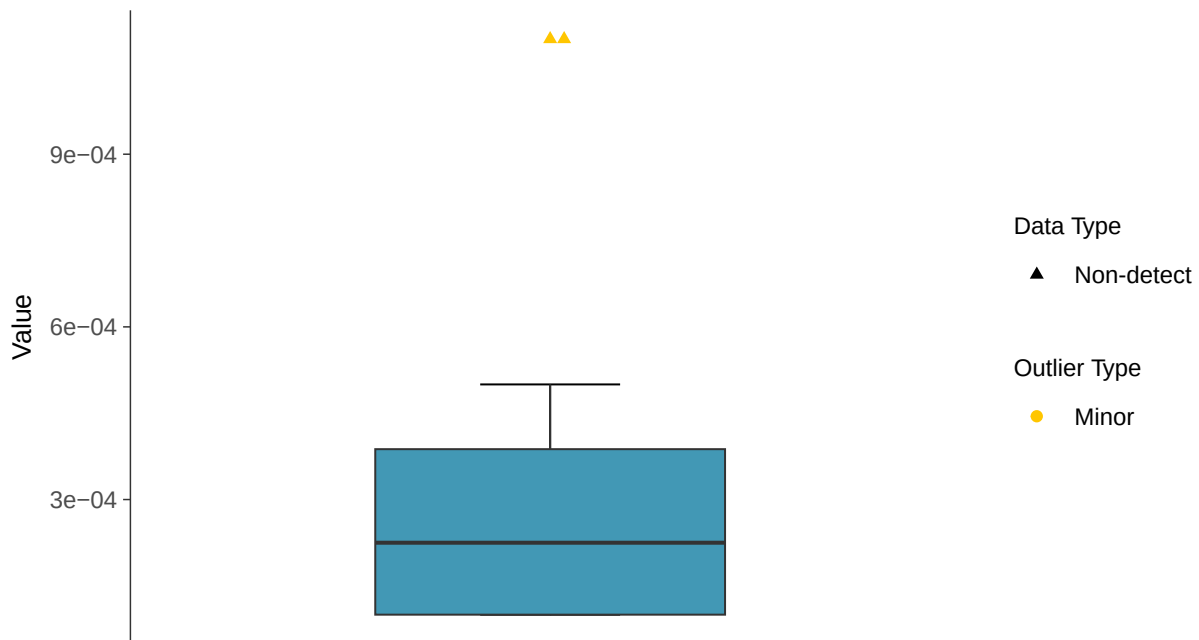






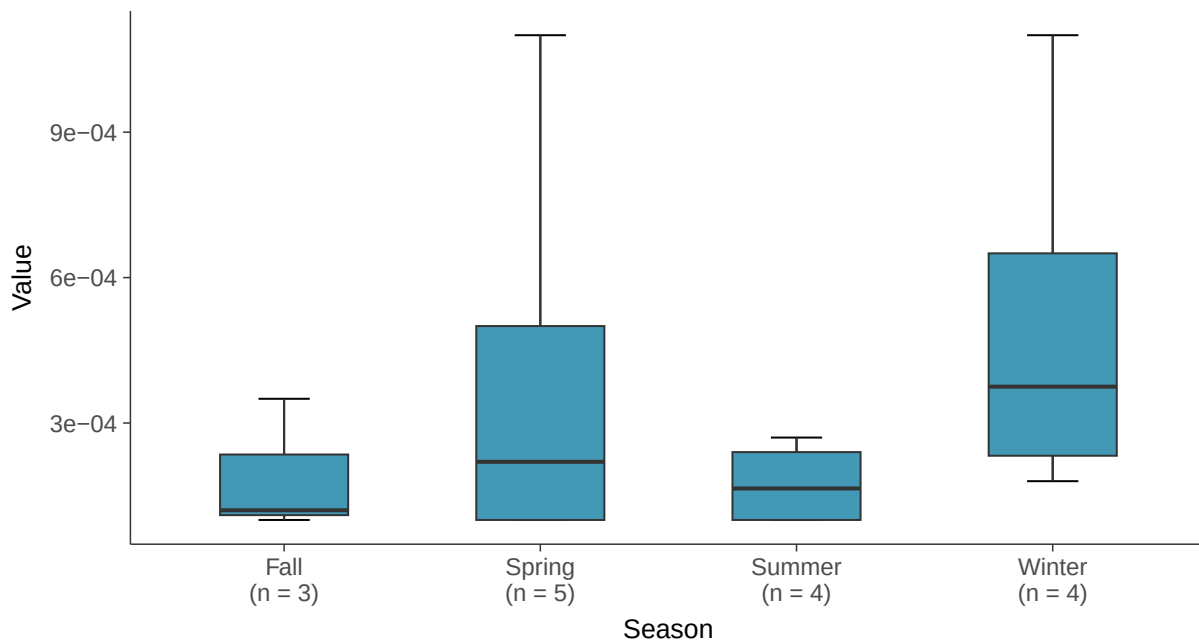
Boxplot

Lead, MW-06 (mg/L)



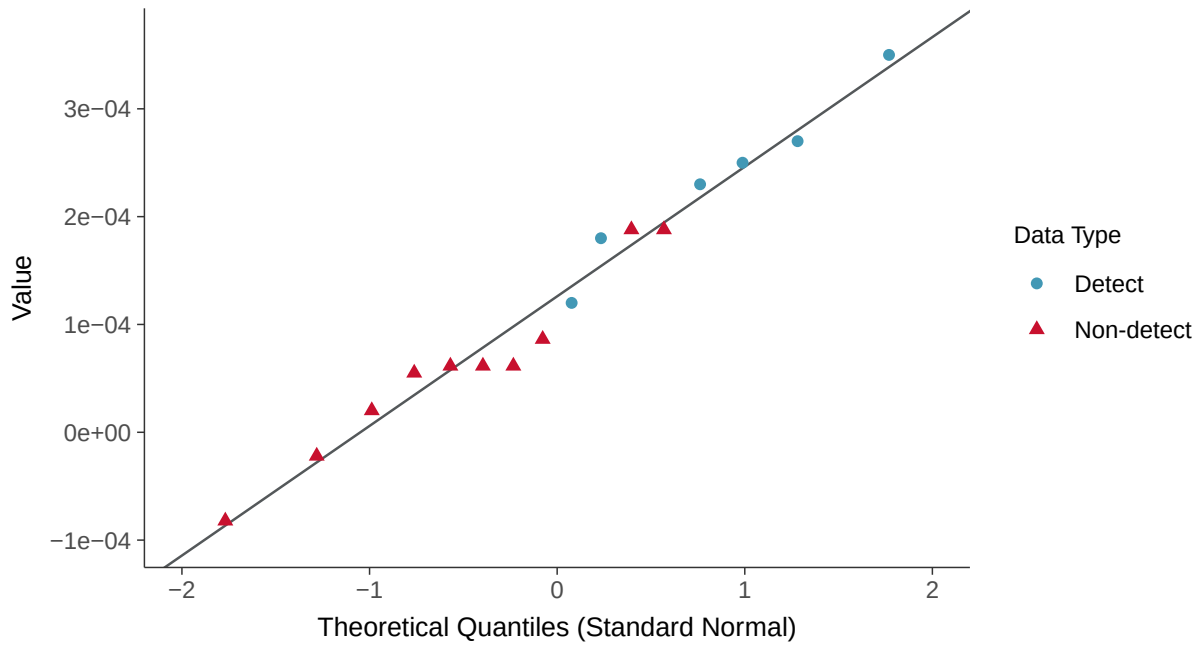
Boxplot by Season

Lead, MW-06 (mg/L)



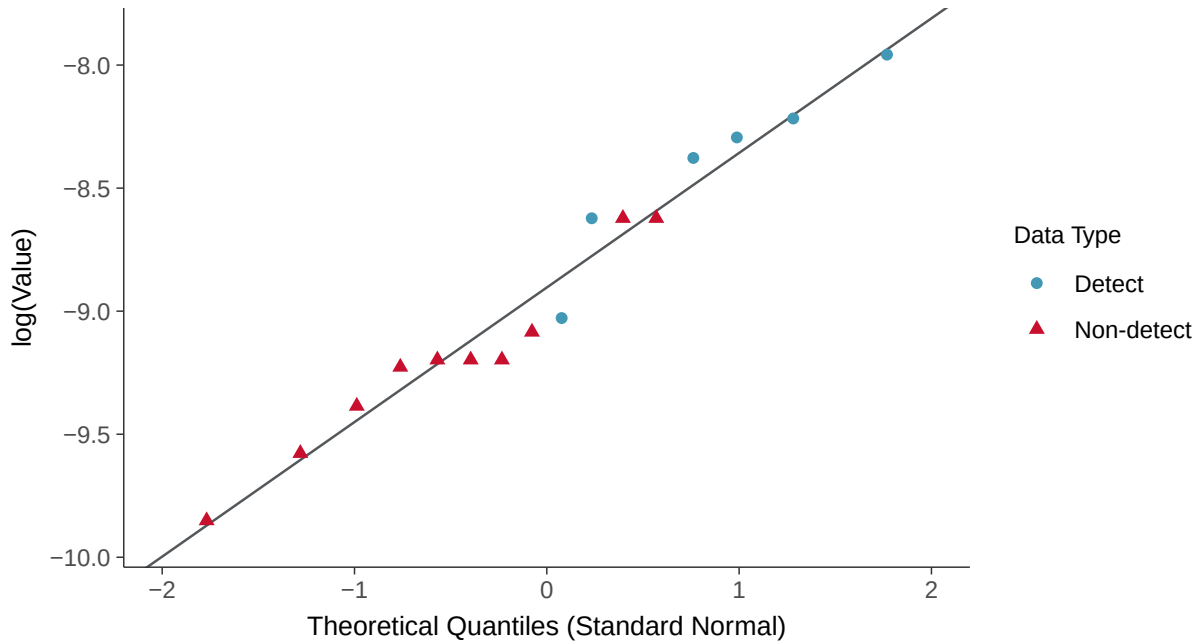
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-06 (mg/L)

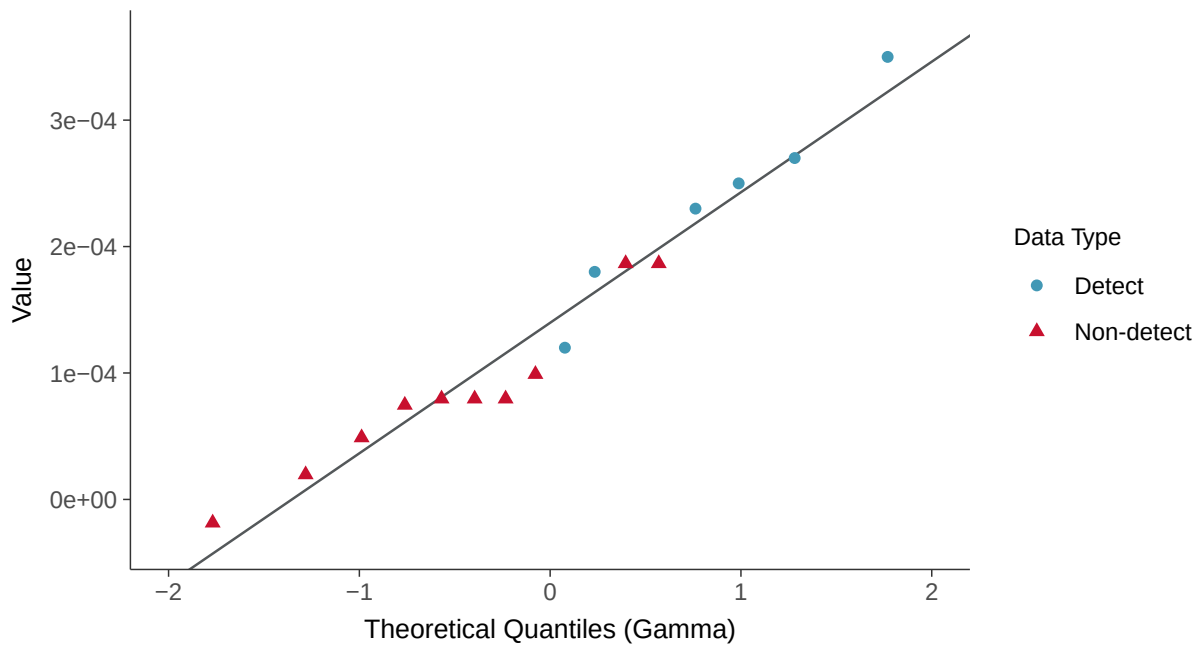


Lognormal Q-Q plot using ROS Imputed Estimates

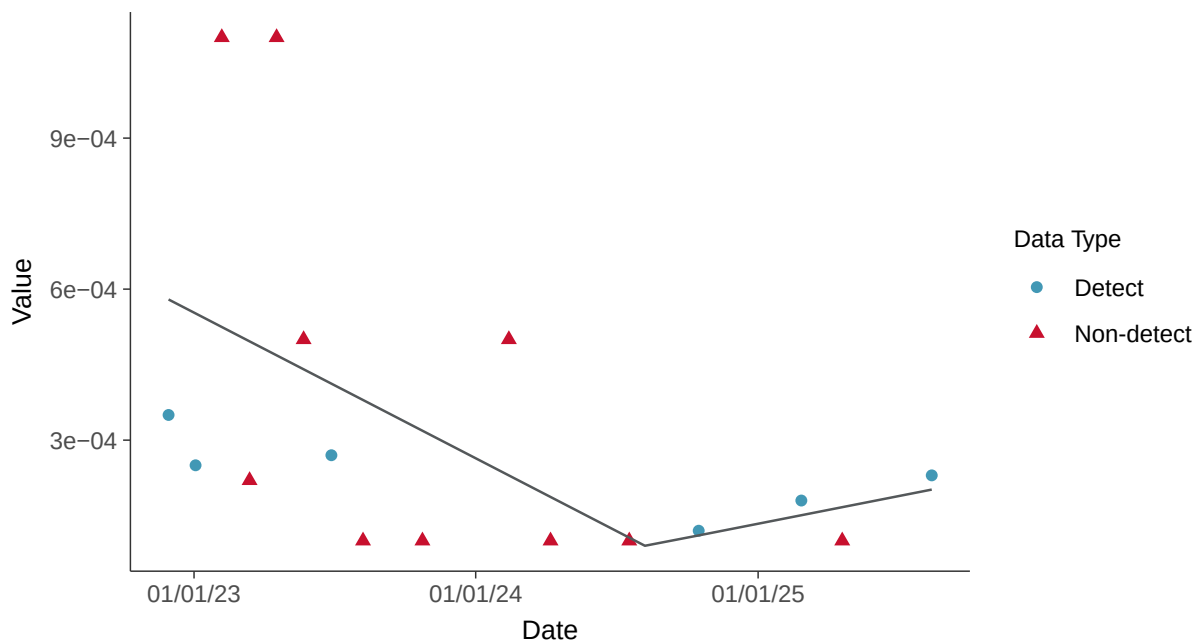
Lead, MW-06 (mg/L)



Lead, MW-06 (mg/L)



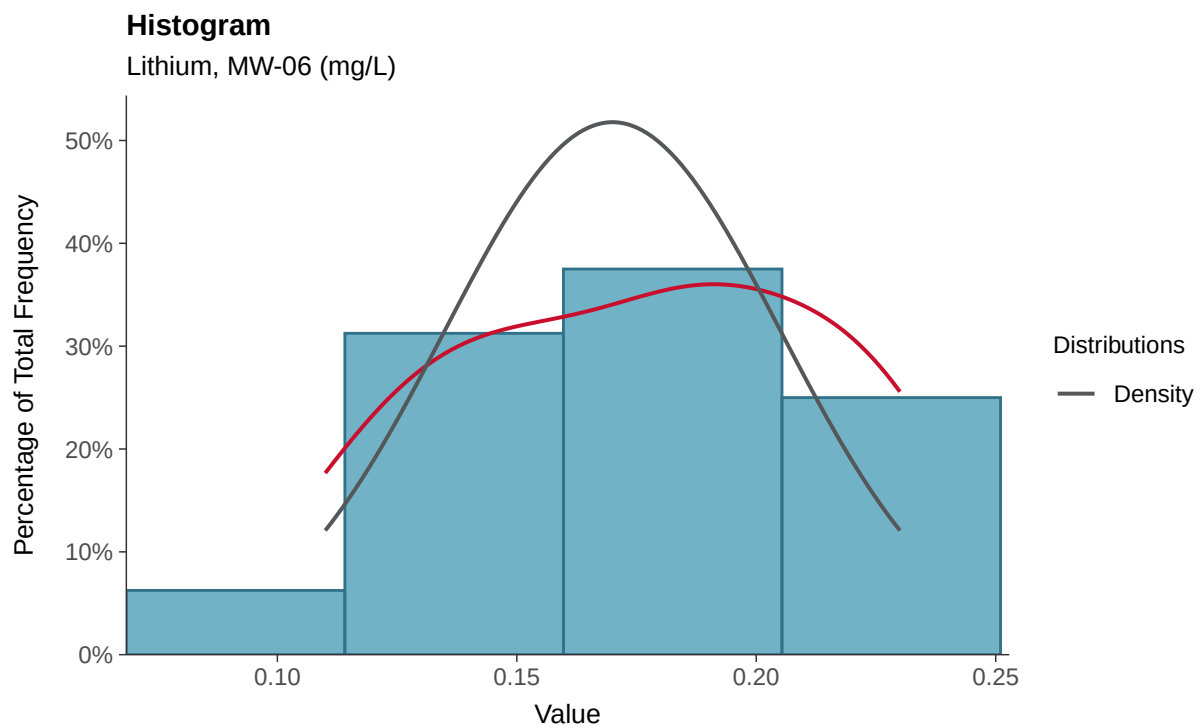
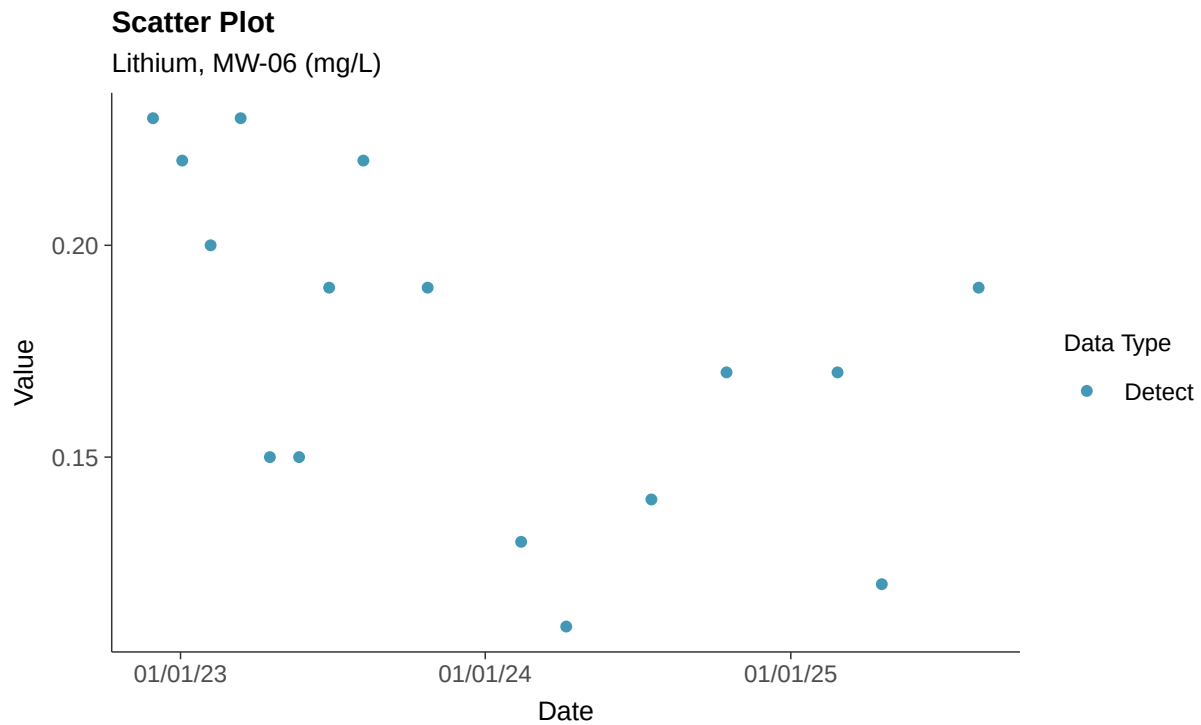
Lead, MW-06 (mg/L)





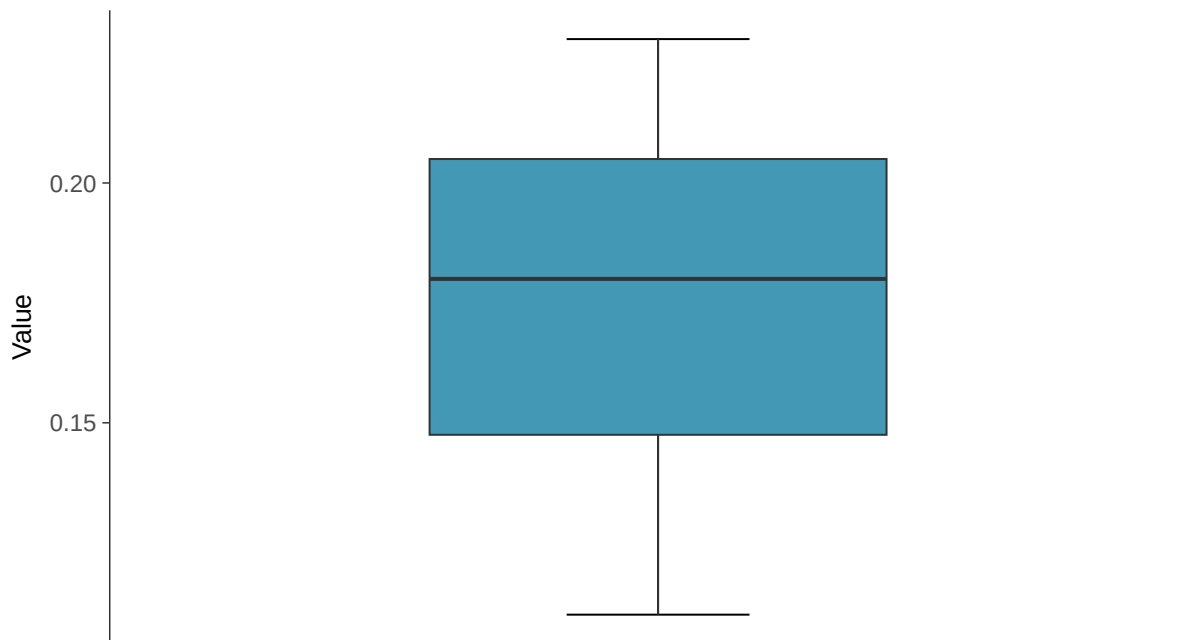
Appendix IV: Lithium, MW-06

ID: 16_1_4_116



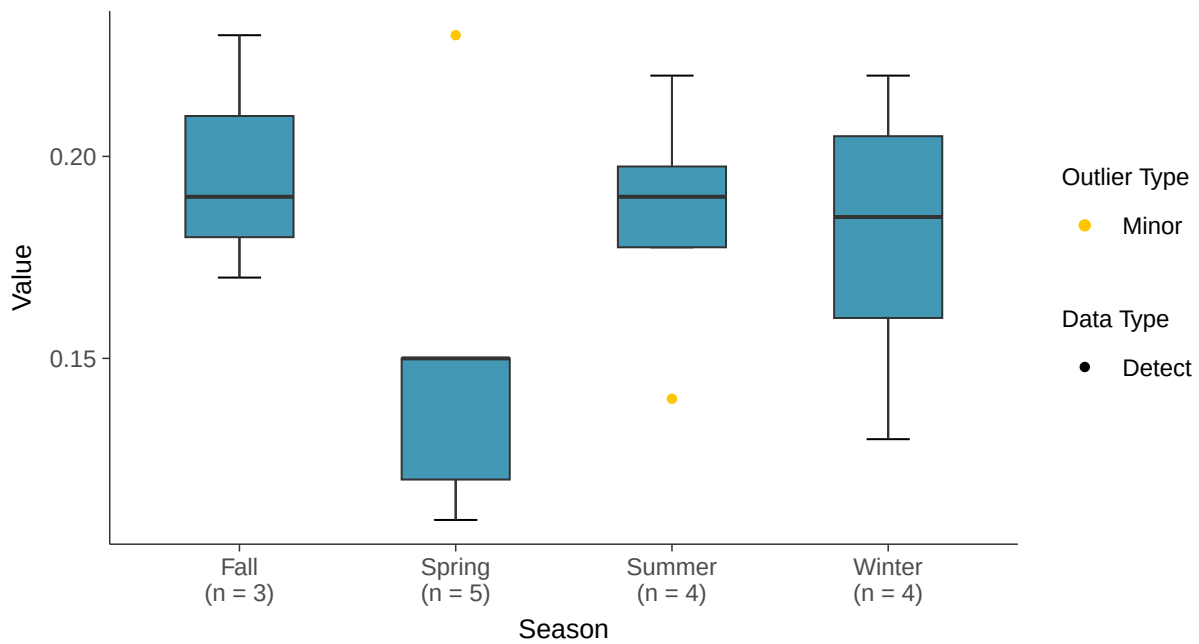
Boxplot

Lithium, MW-06 (mg/L)



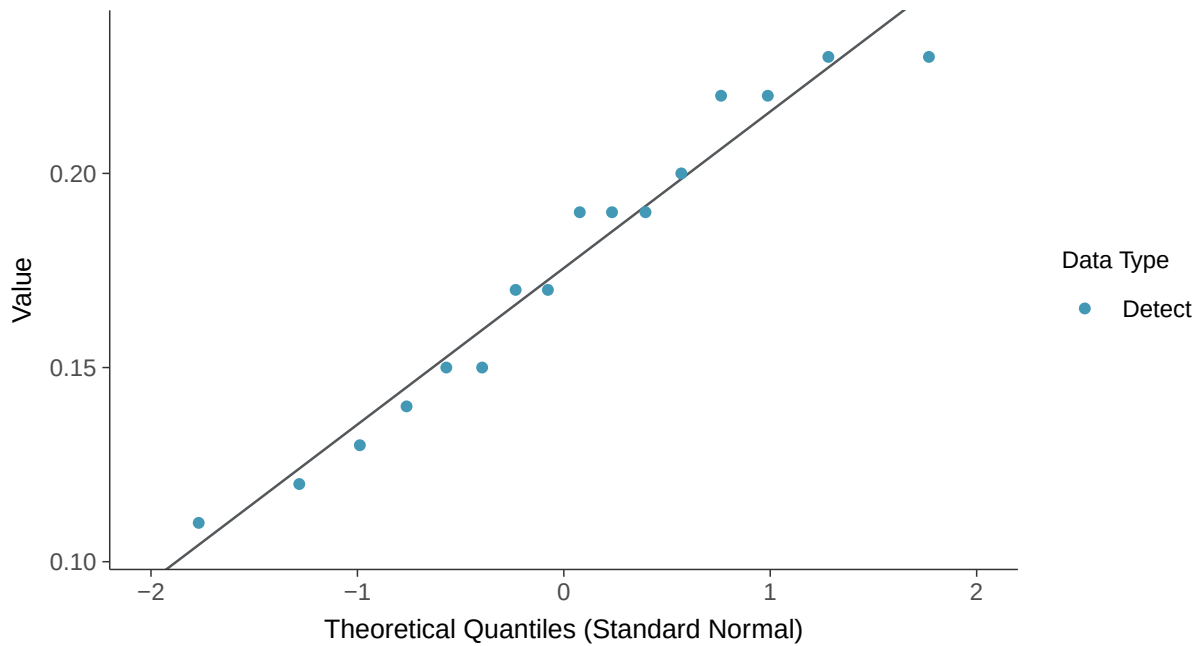
Boxplot by Season

Lithium, MW-06 (mg/L)



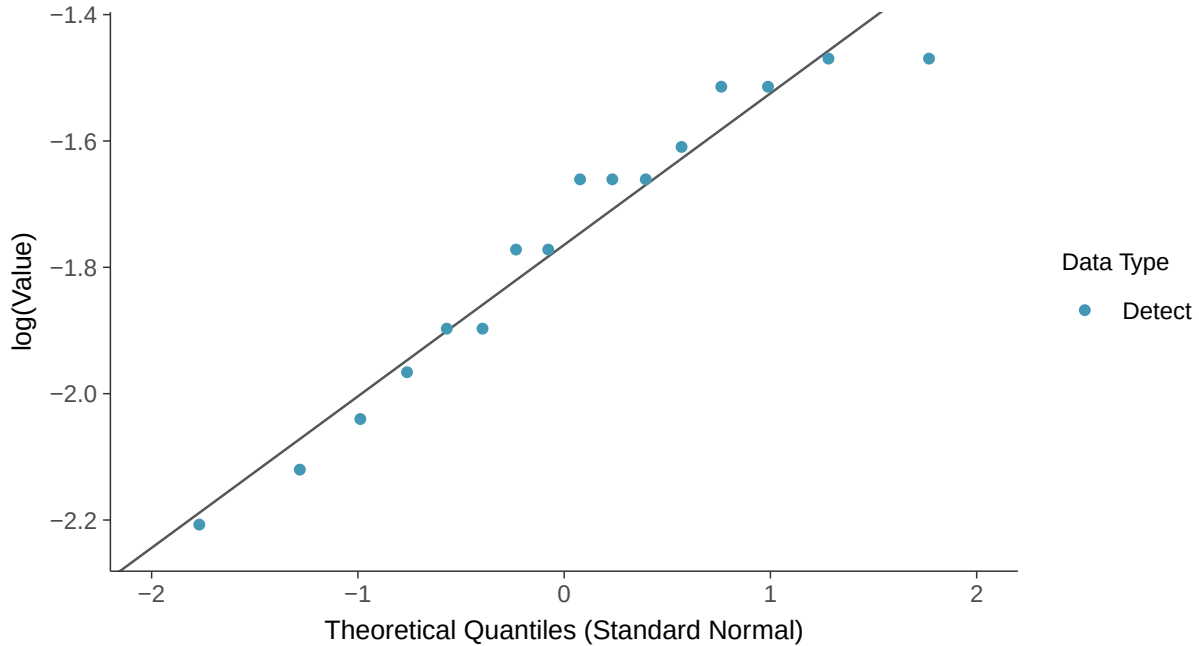
Normal Q-Q plot

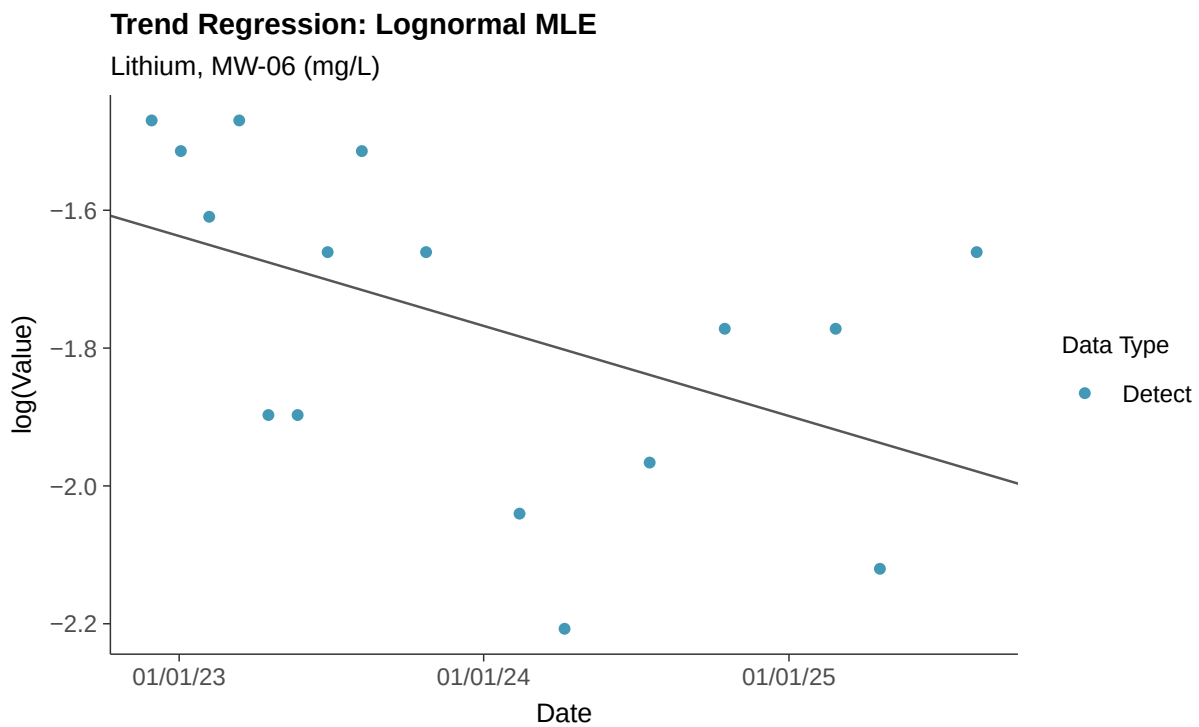
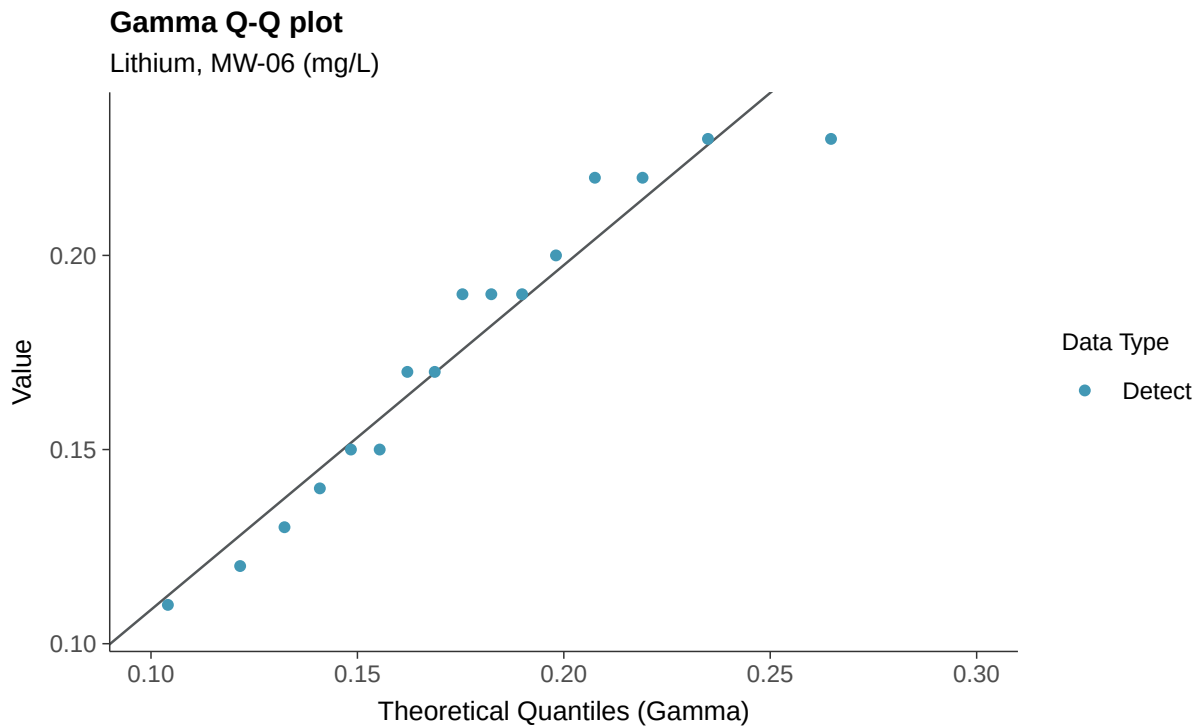
Lithium, MW-06 (mg/L)



Lognormal Q-Q plot

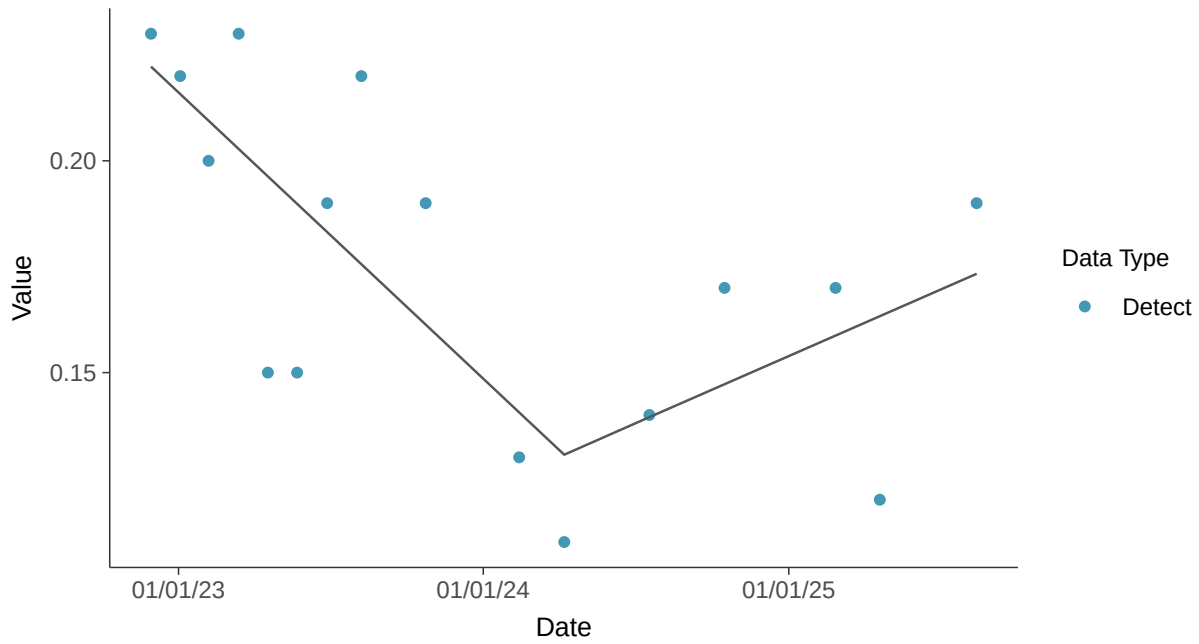
Lithium, MW-06 (mg/L)





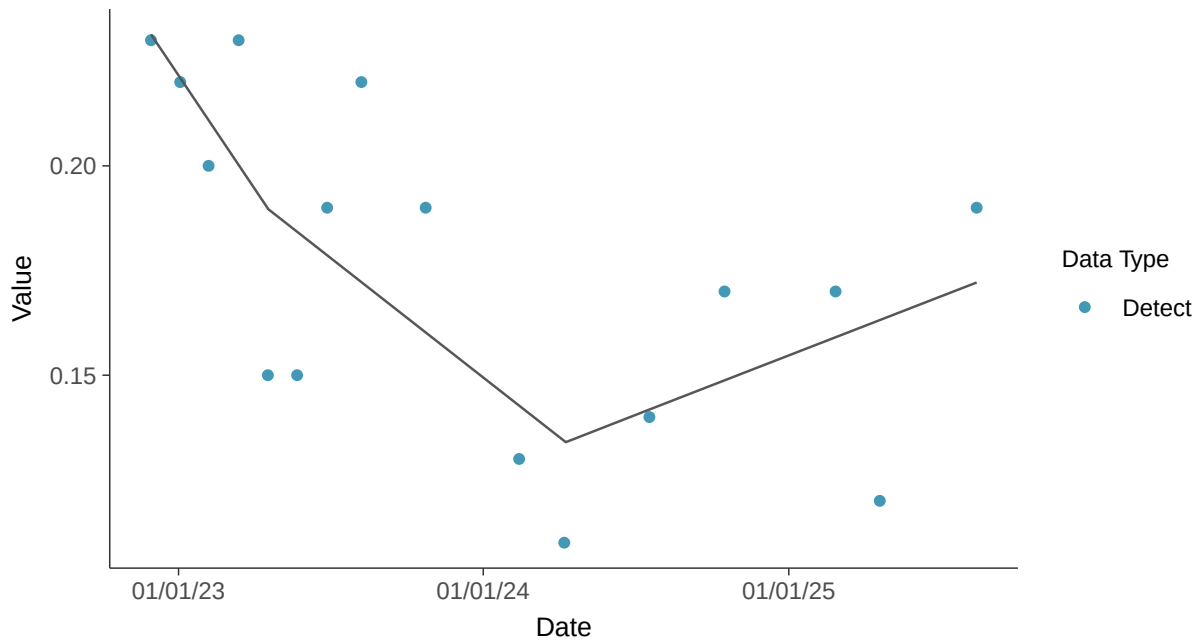
Trend Regression: Piecewise Linear-Linear

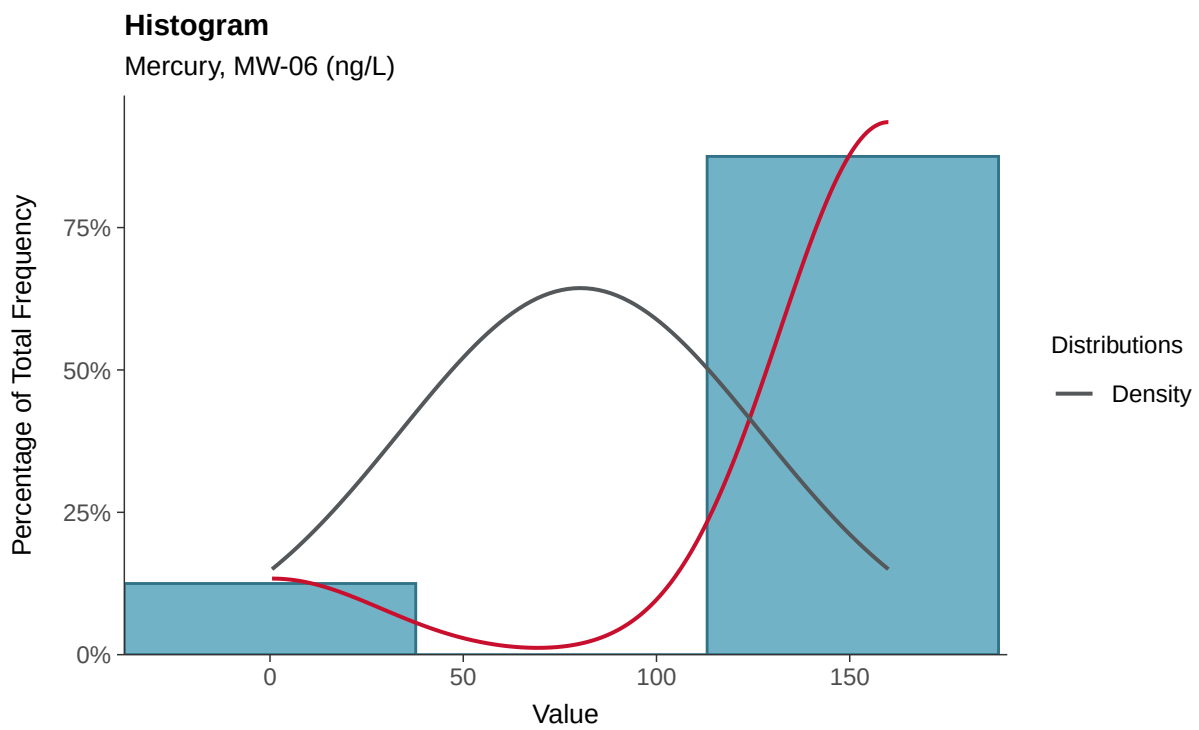
Lithium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

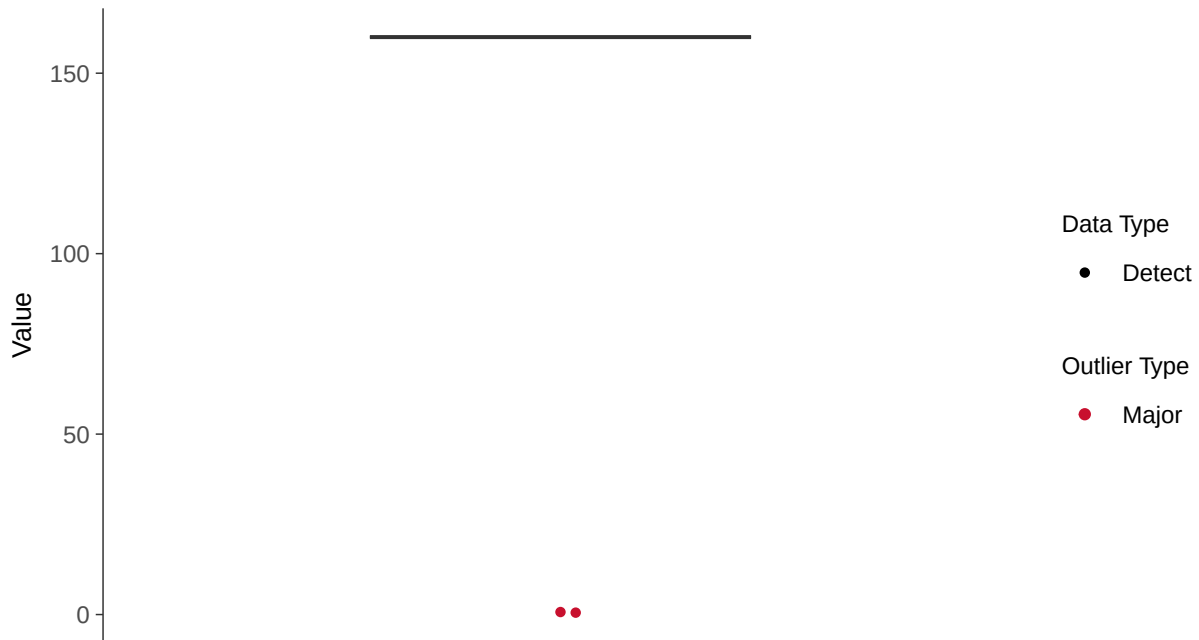
Lithium, MW-06 (mg/L)





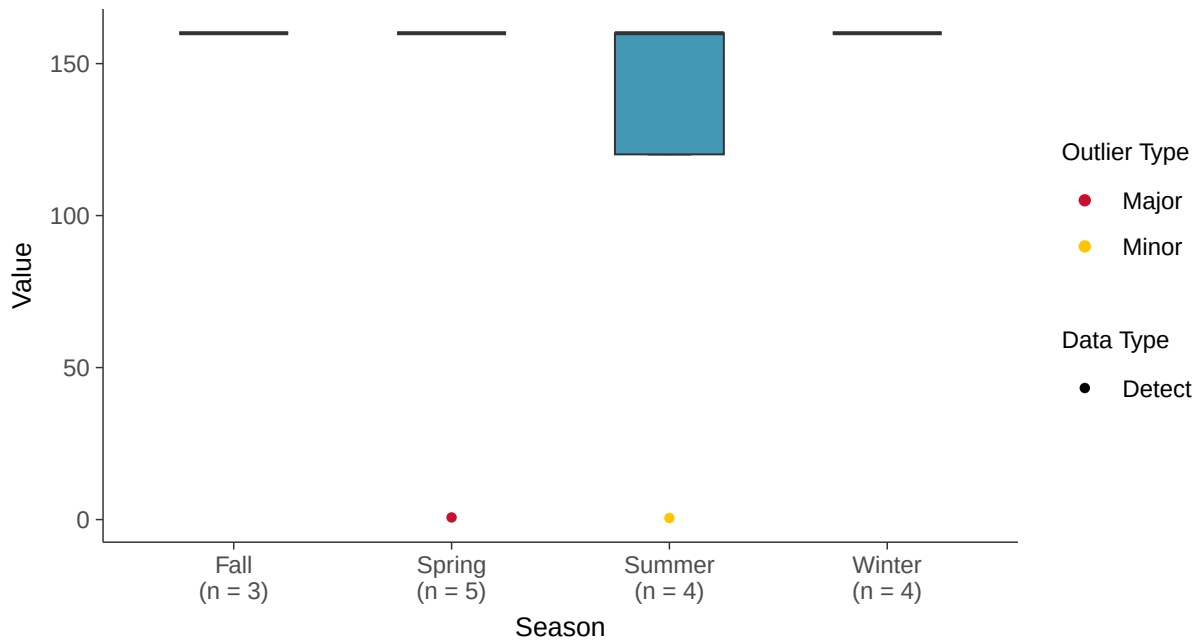
Boxplot

Mercury, MW-06 (ng/L)



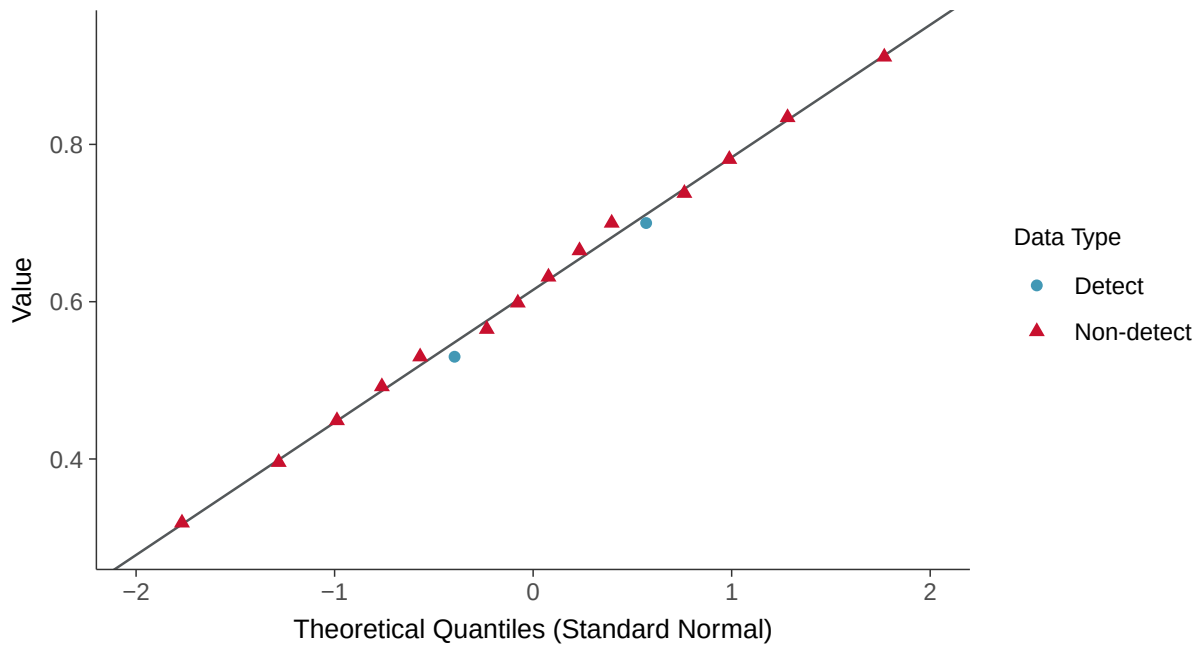
Boxplot by Season

Mercury, MW-06 (ng/L)



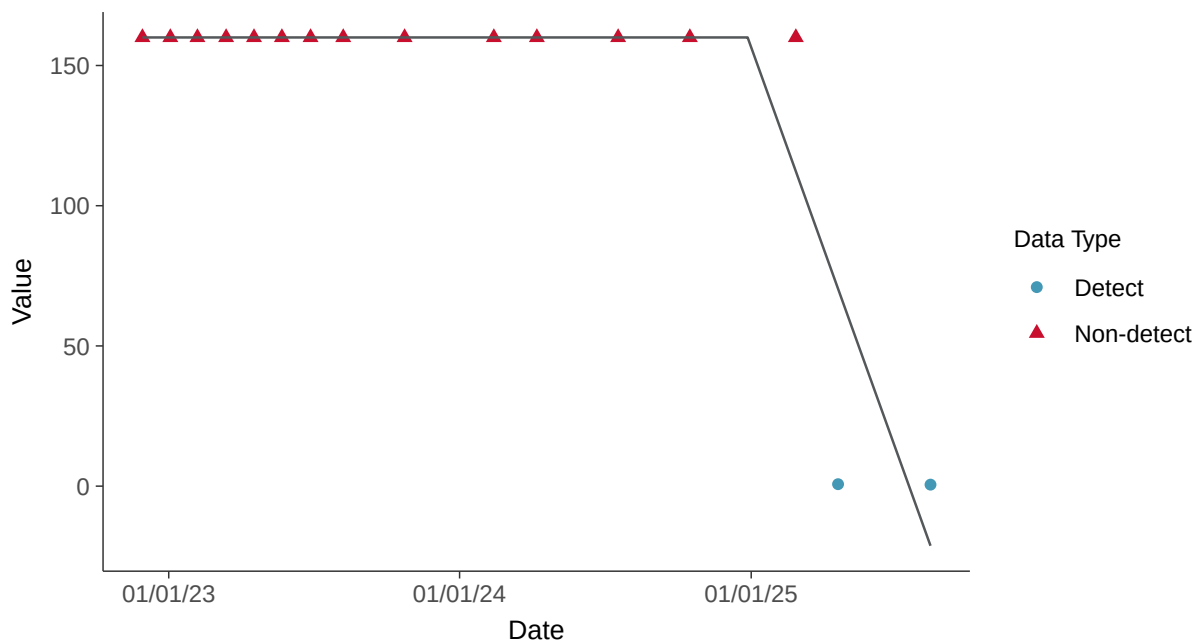
Normal Q-Q plot using ROS Imputed Estimates

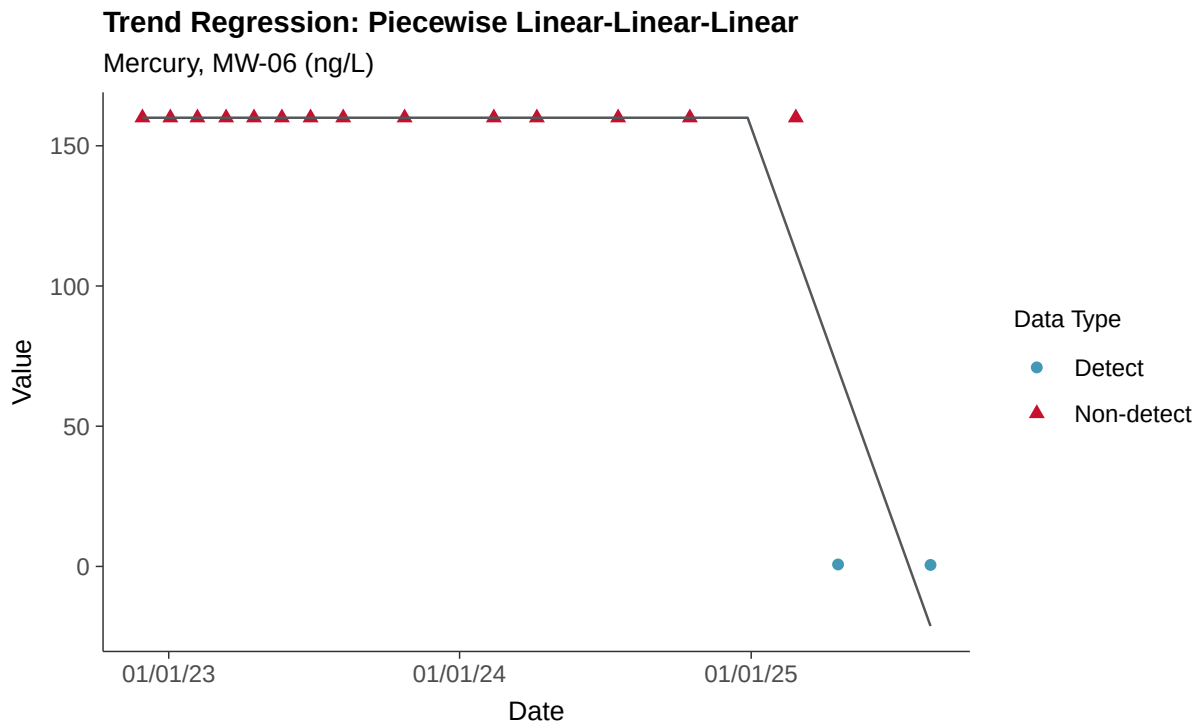
Mercury, MW-06 (ng/L)



Trend Regression: Piecewise Linear-Linear

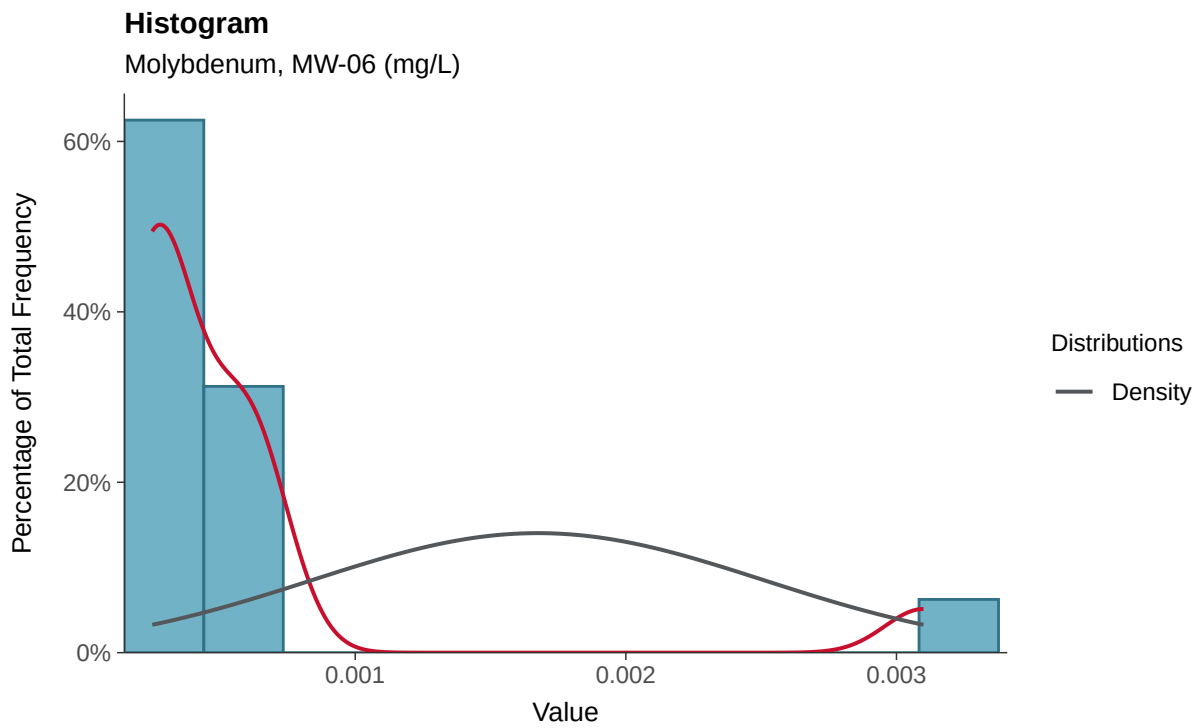
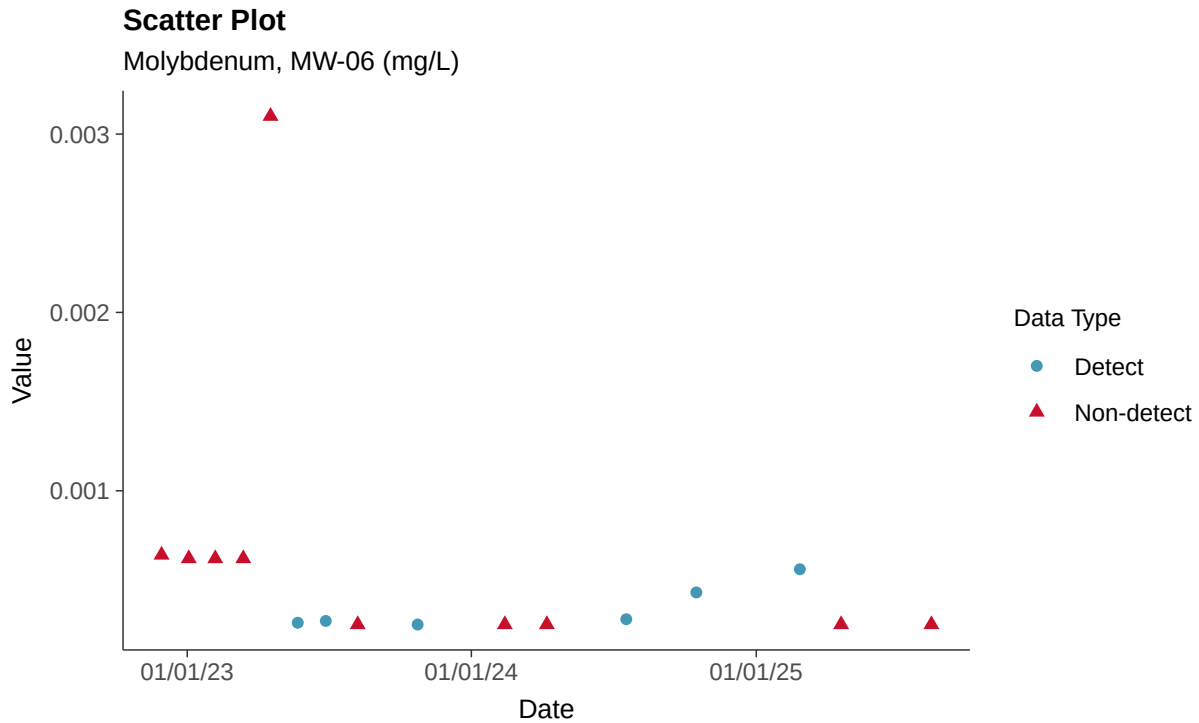
Mercury, MW-06 (ng/L)





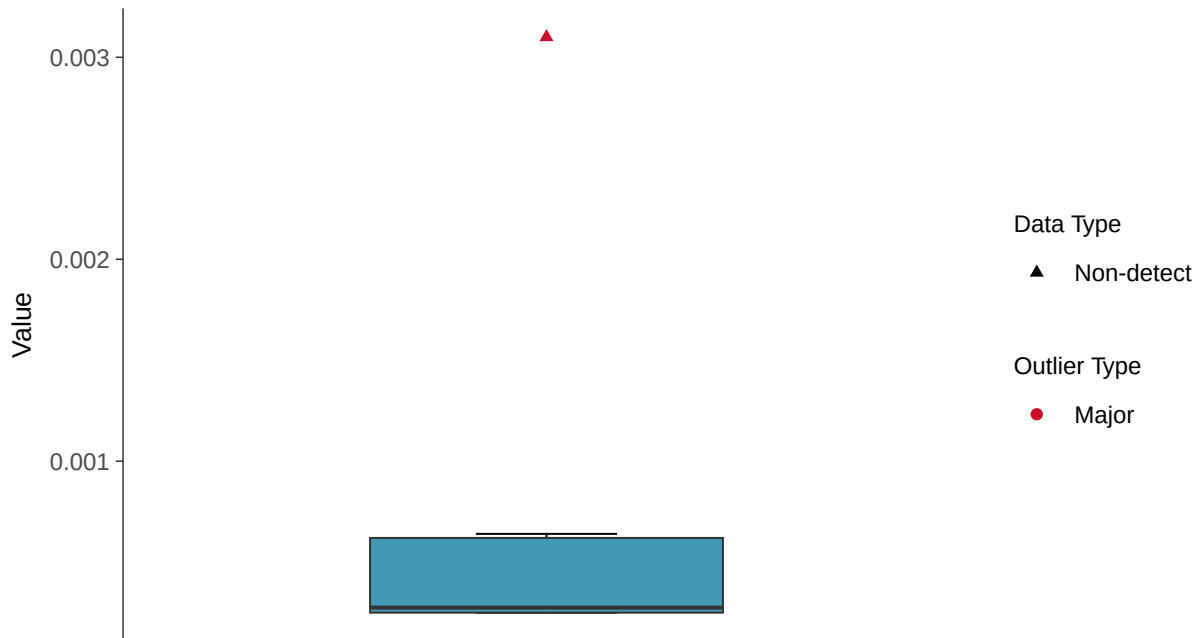
Appendix IV: Molybdenum, MW-06

ID: 16_1_4_118



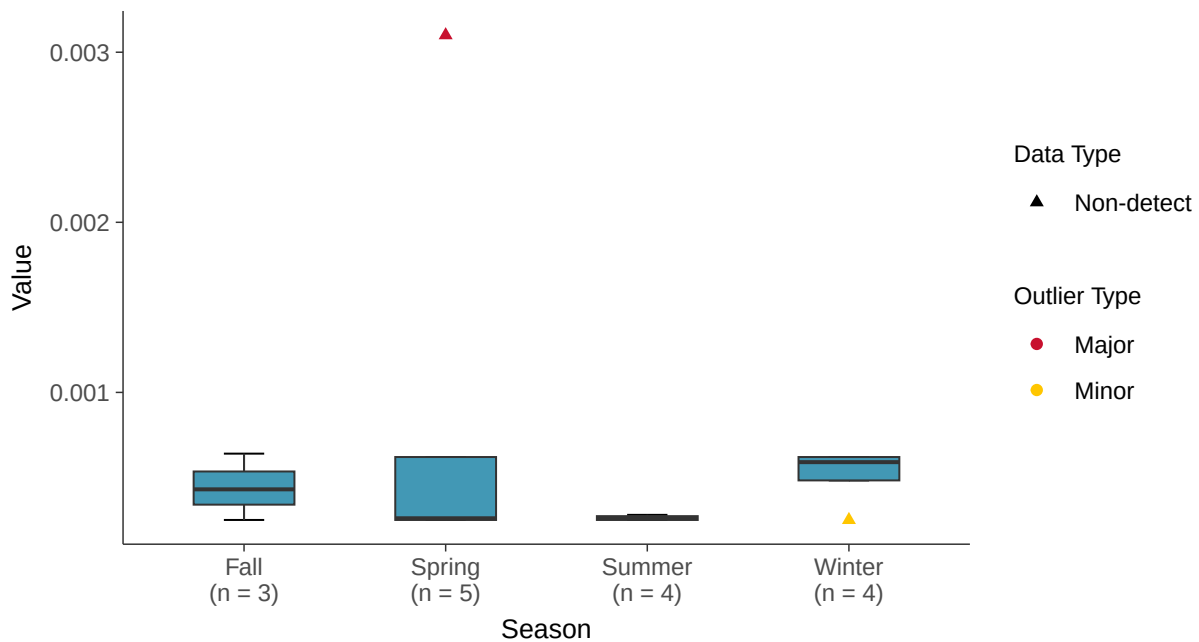
Boxplot

Molybdenum, MW-06 (mg/L)



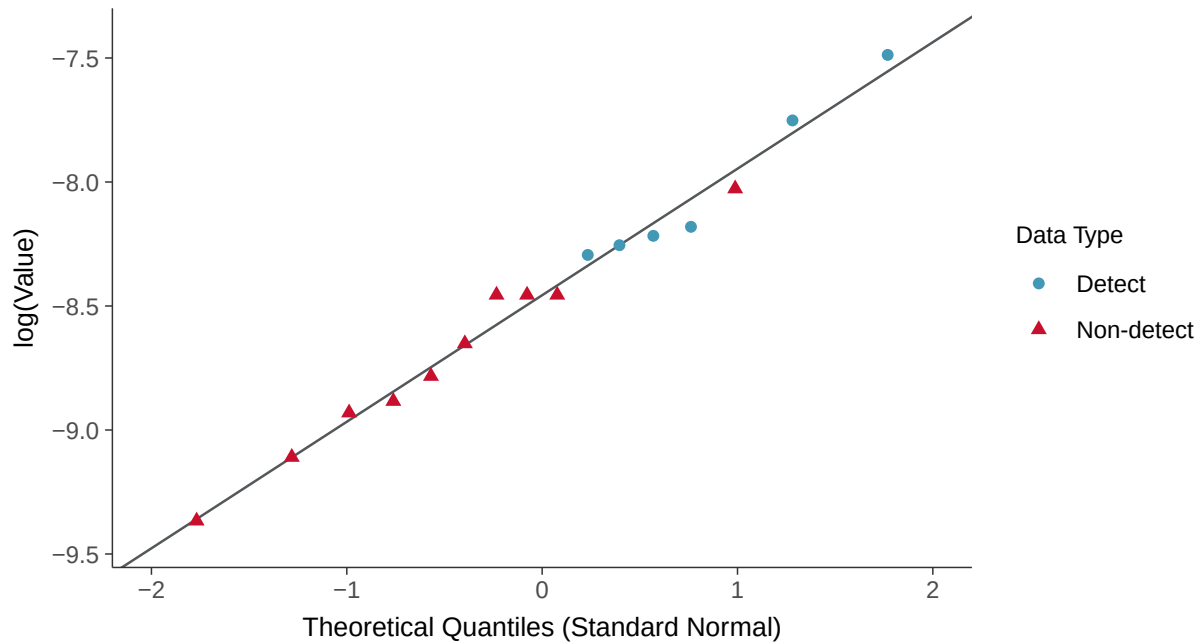
Boxplot by Season

Molybdenum, MW-06 (mg/L)



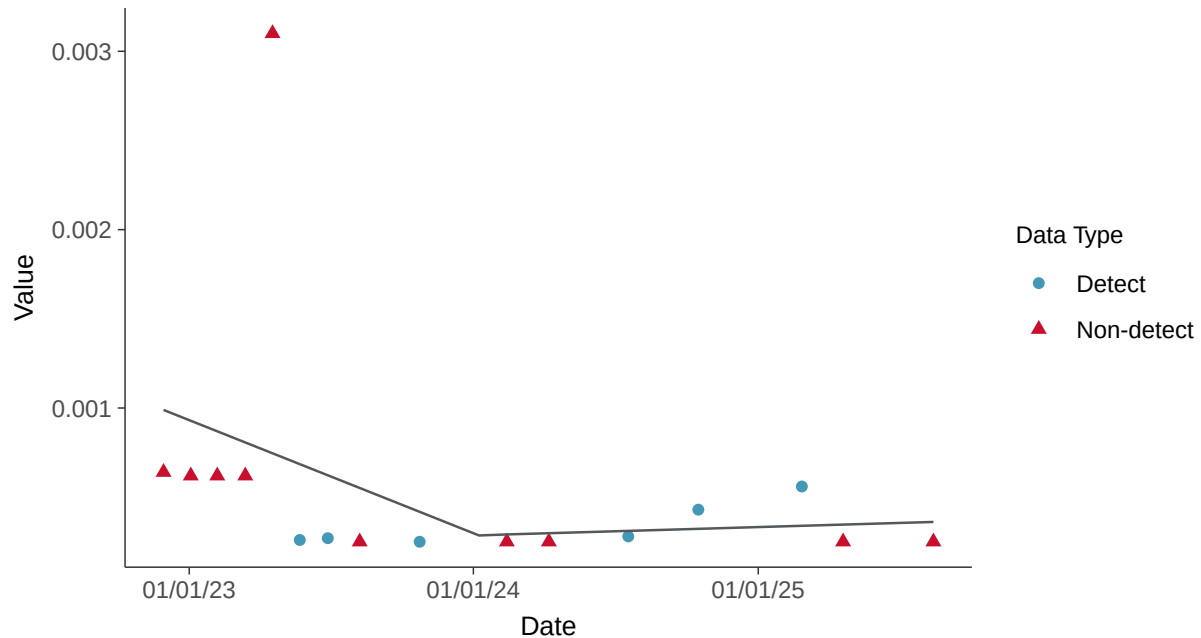
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-06 (mg/L)

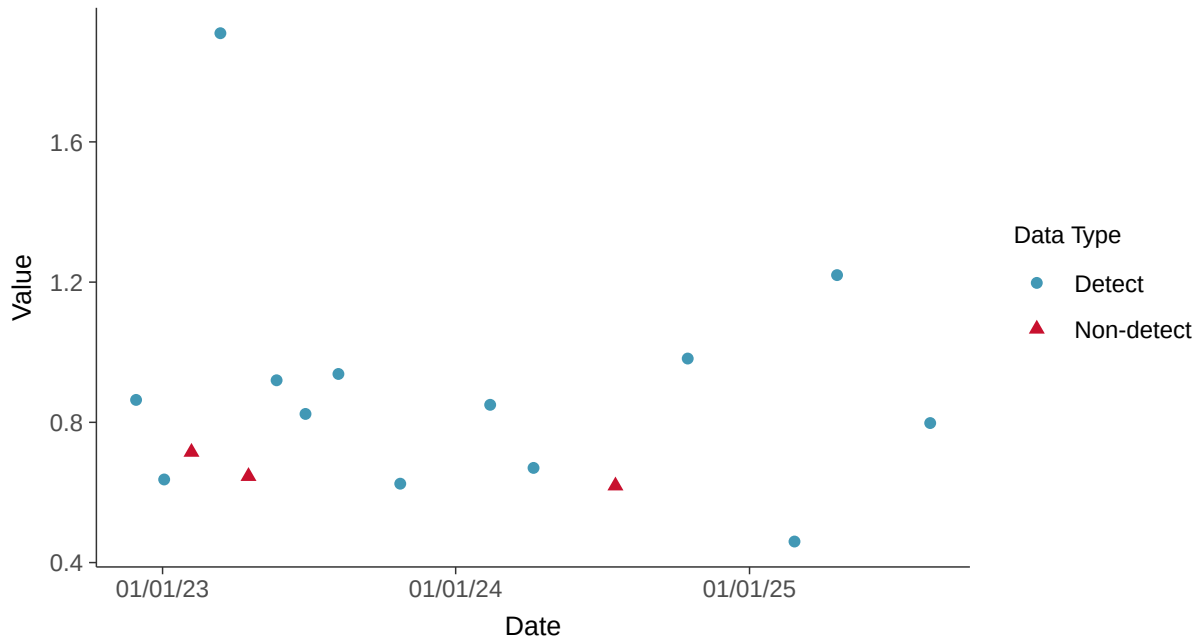


Appendix IV: Radium 226 and 228, MW-06

ID: 16_1_4_121

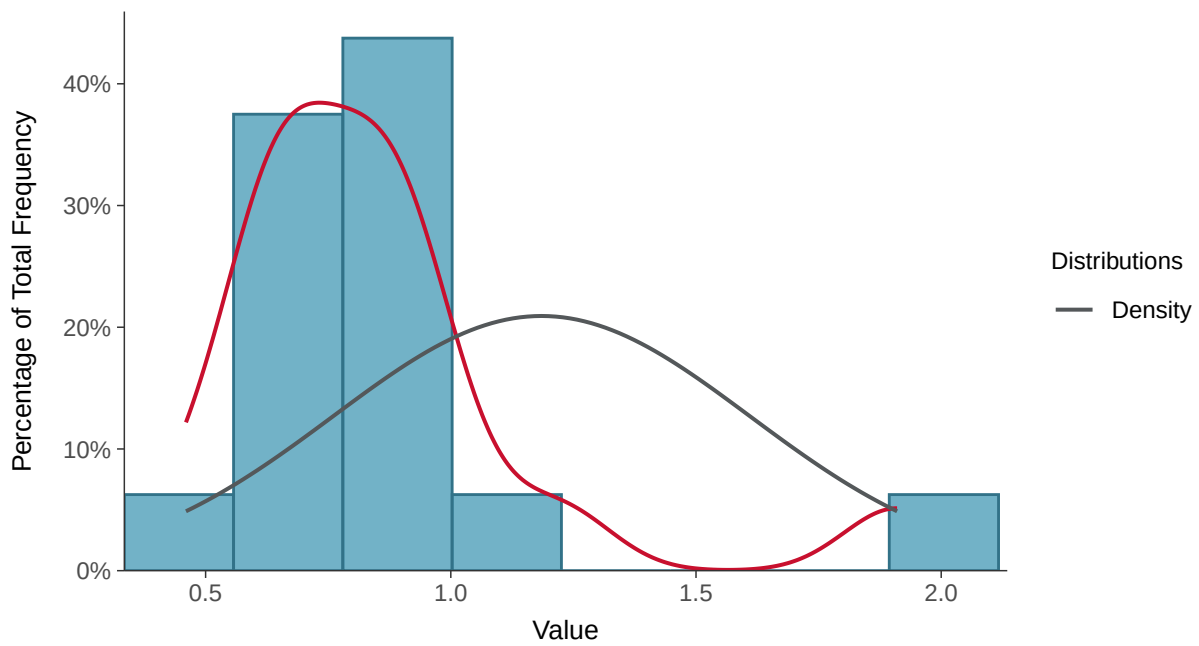
Scatter Plot

Radium 226 and 228, MW-06 (pCi/L)



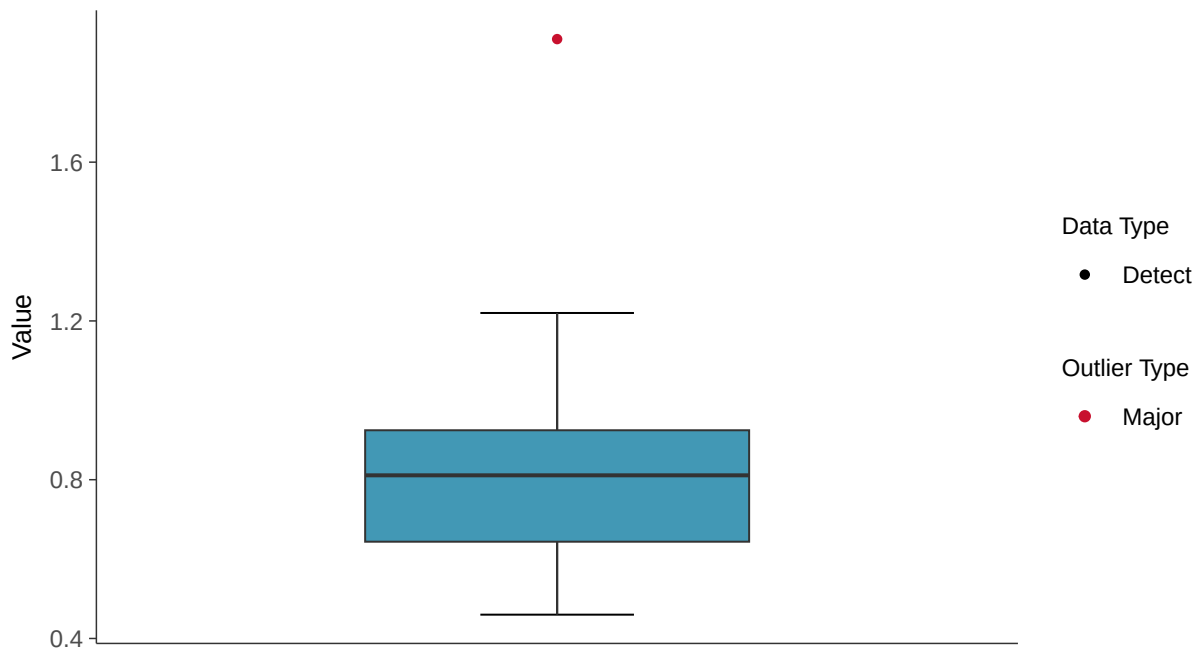
Histogram

Radium 226 and 228, MW-06 (pCi/L)



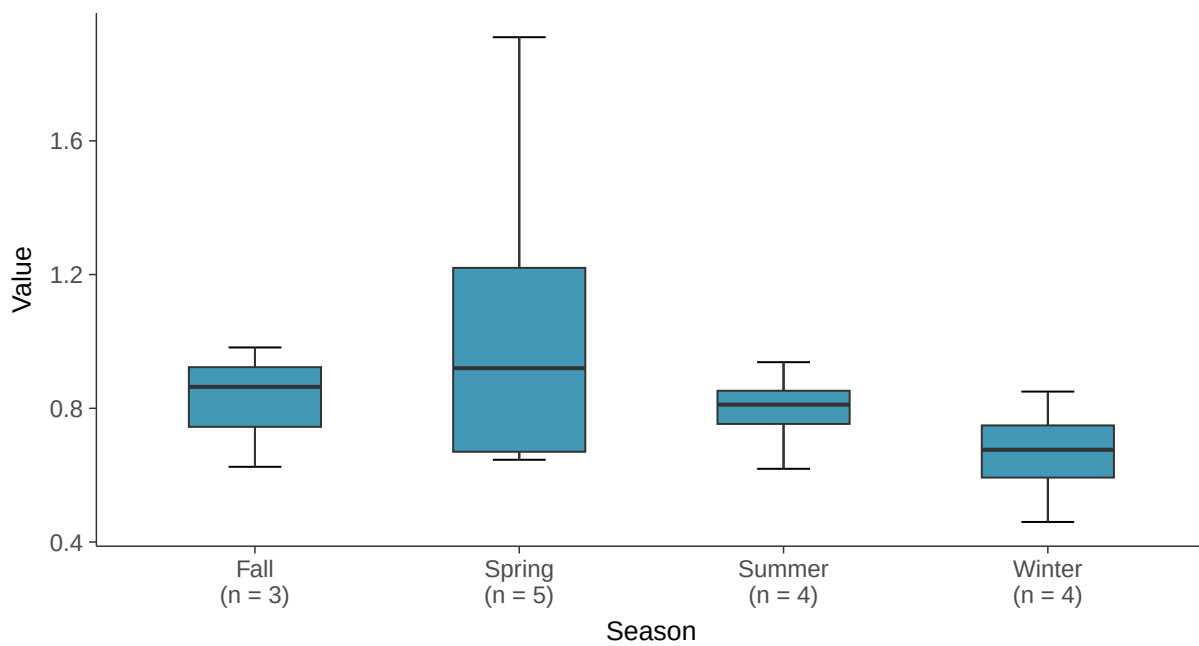
Boxplot

Radium 226 and 228, MW-06 (pCi/L)



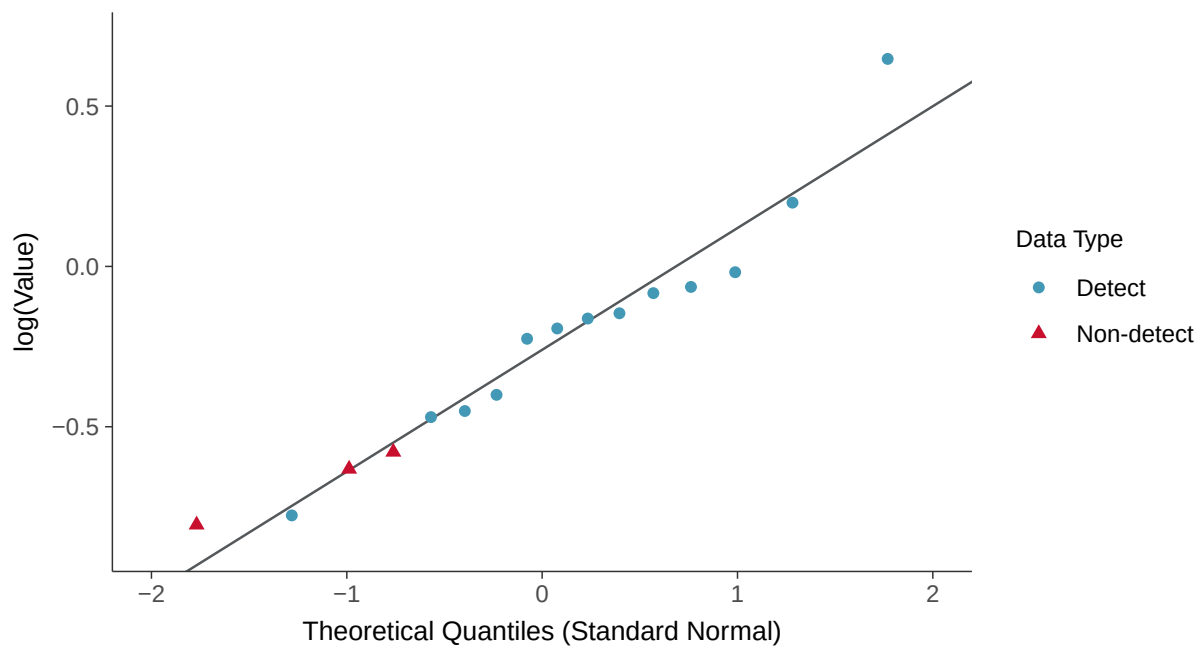
Boxplot by Season

Radium 226 and 228, MW-06 (pCi/L)



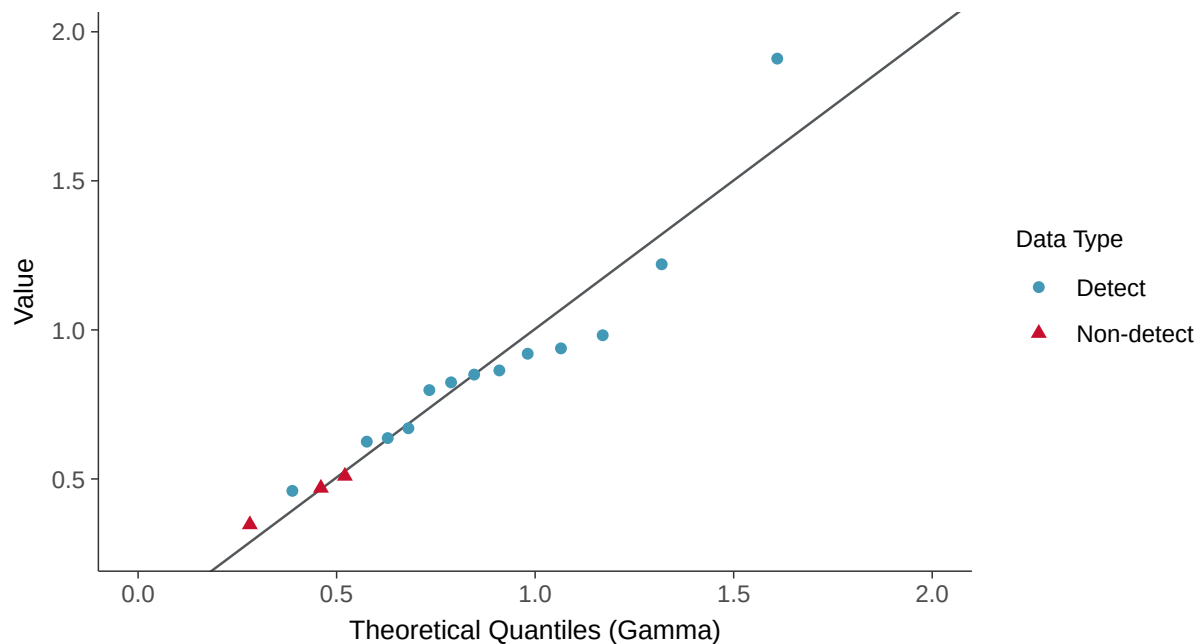
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-06 (pCi/L)



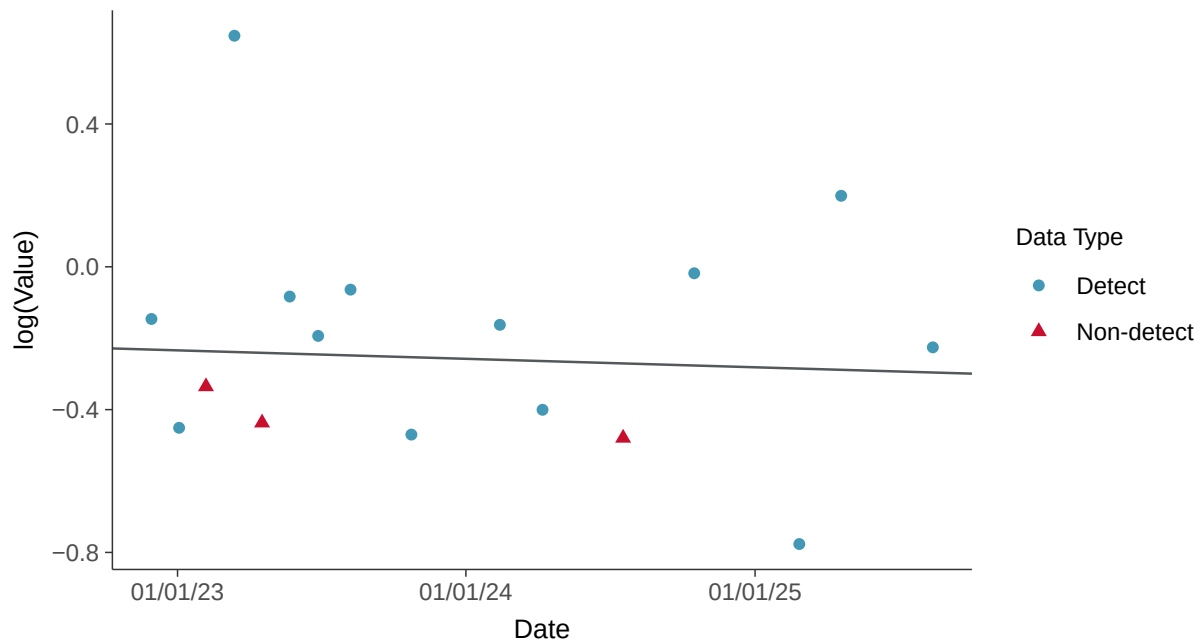
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-06 (pCi/L)



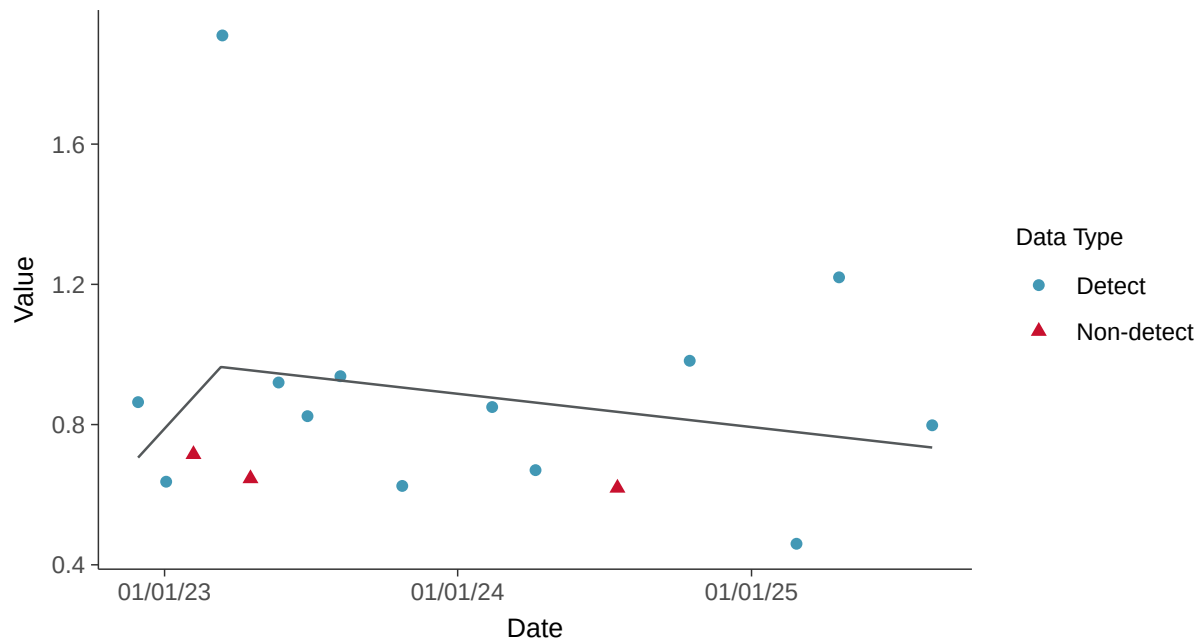
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-06 (pCi/L)



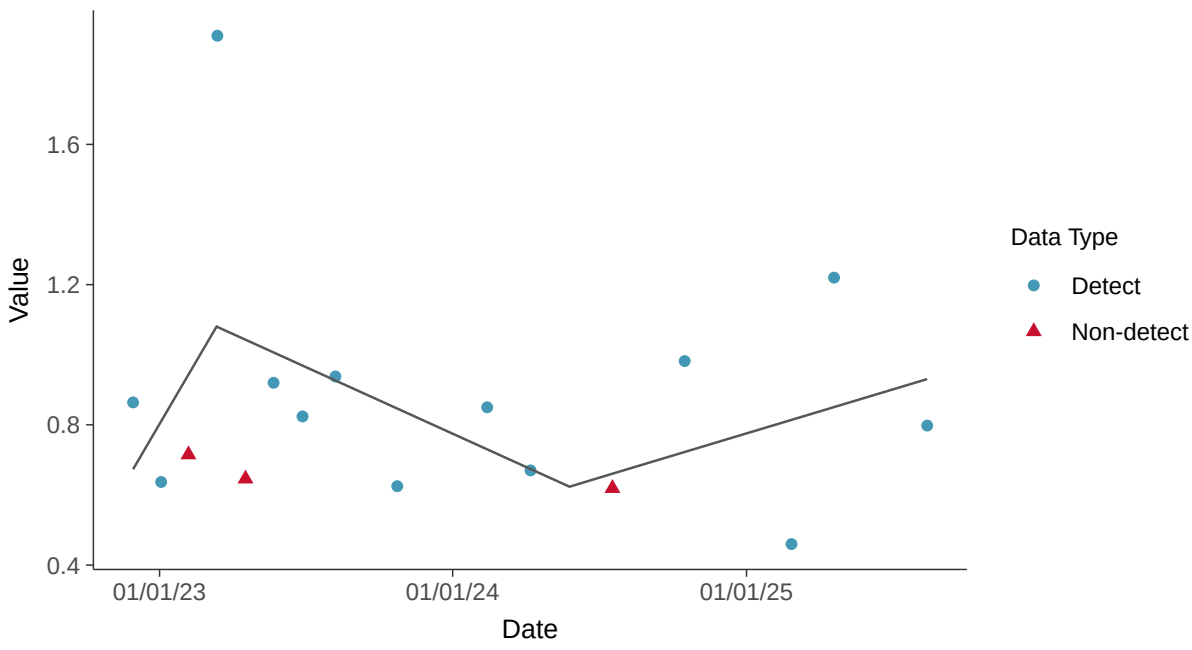
Trend Regression: Piecewise Linear-Linear

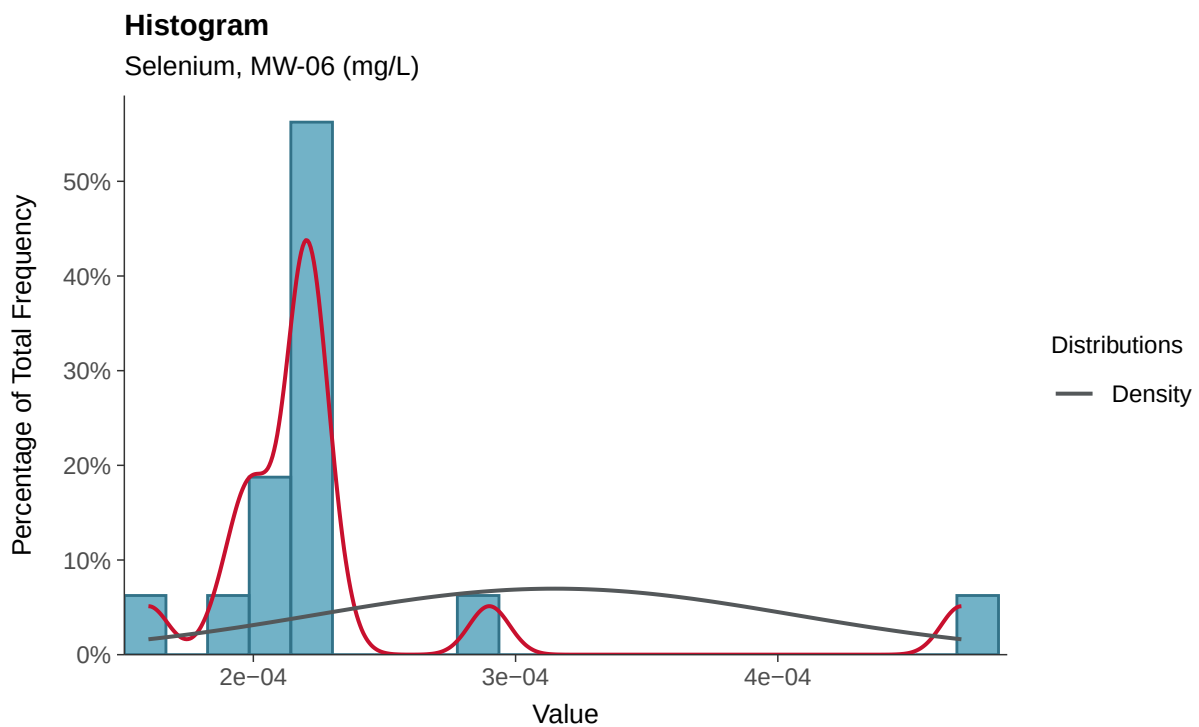
Radium 226 and 228, MW-06 (pCi/L)





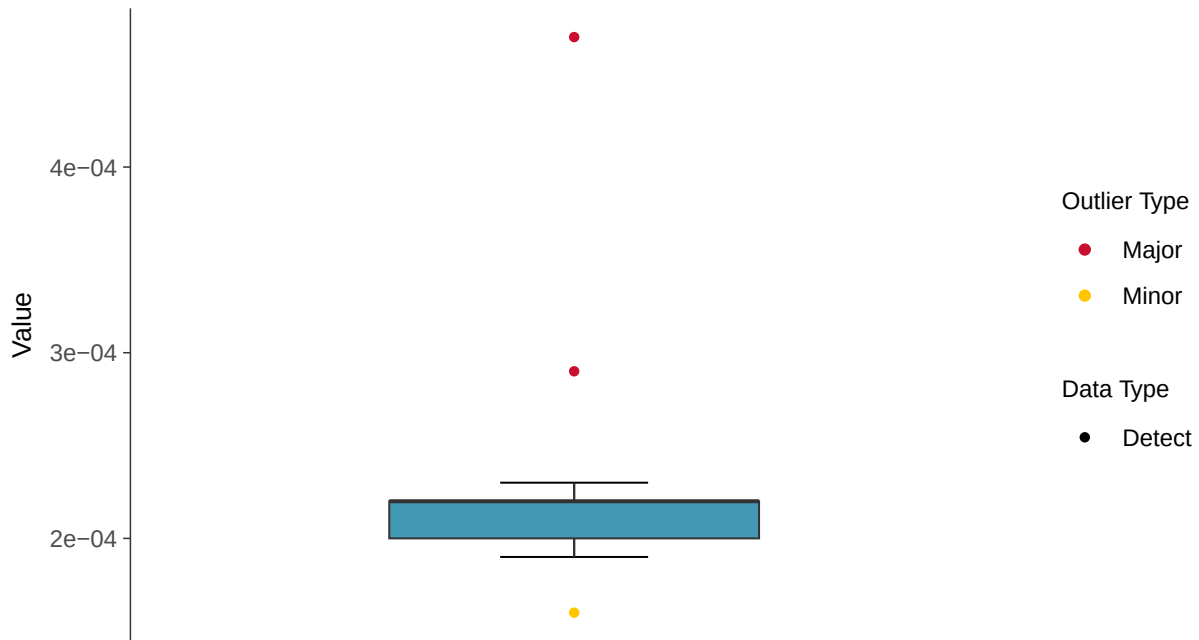
Trend Regression: Piecewise Linear-Linear-Linear
Radium 226 and 228, MW-06 (pCi/L)





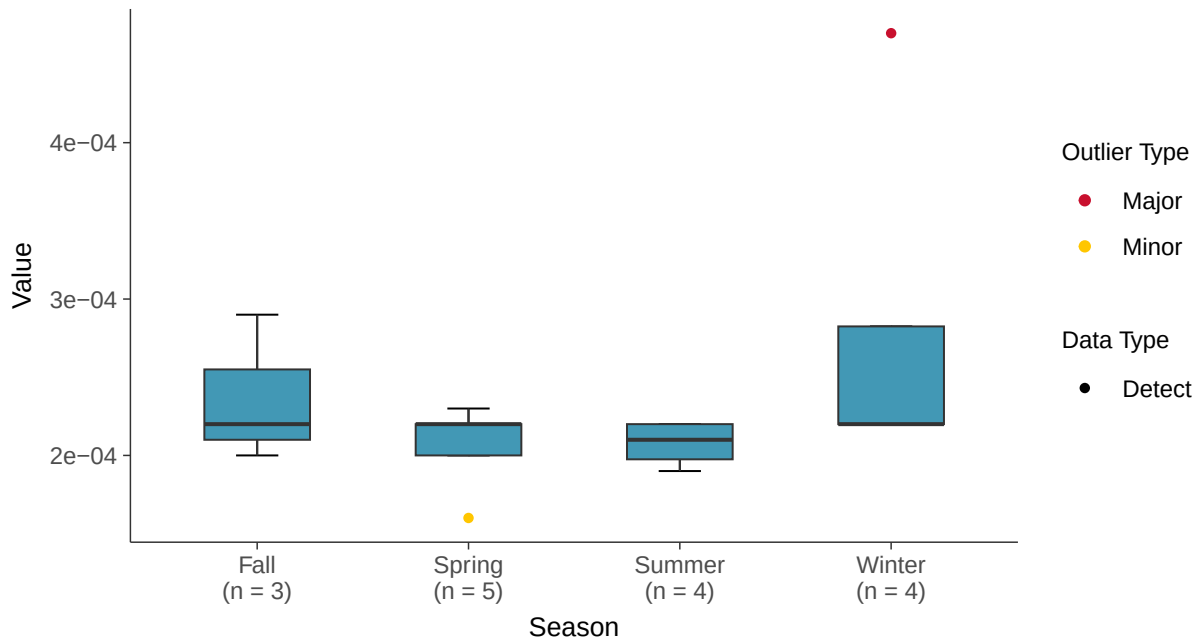
Boxplot

Selenium, MW-06 (mg/L)



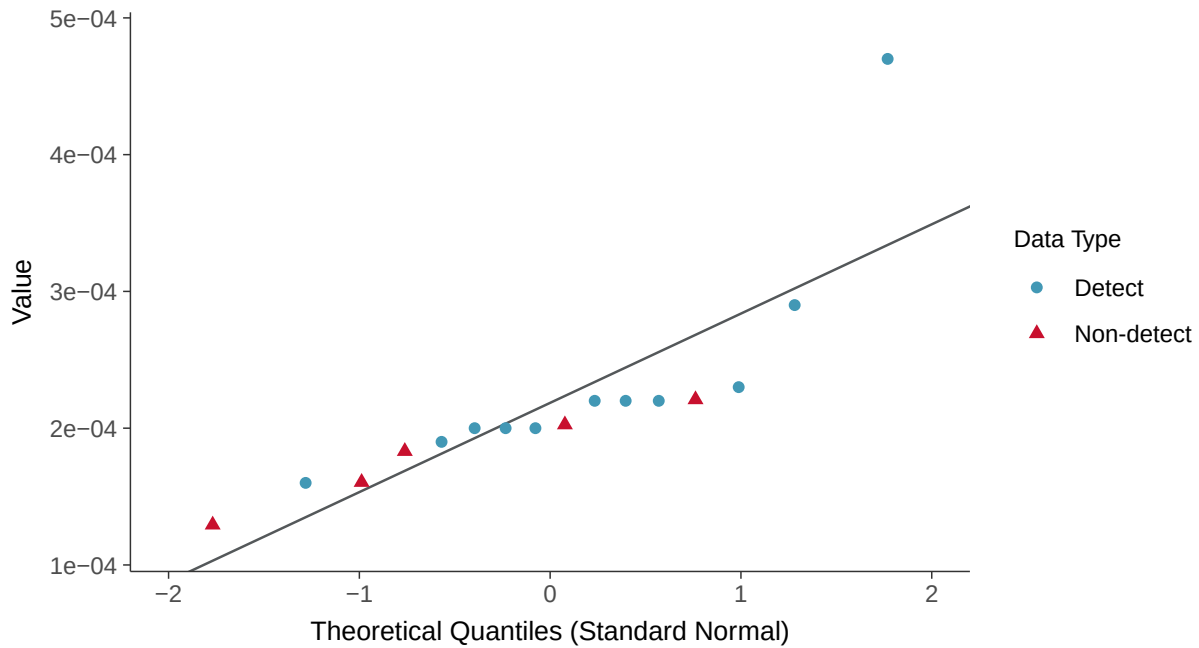
Boxplot by Season

Selenium, MW-06 (mg/L)



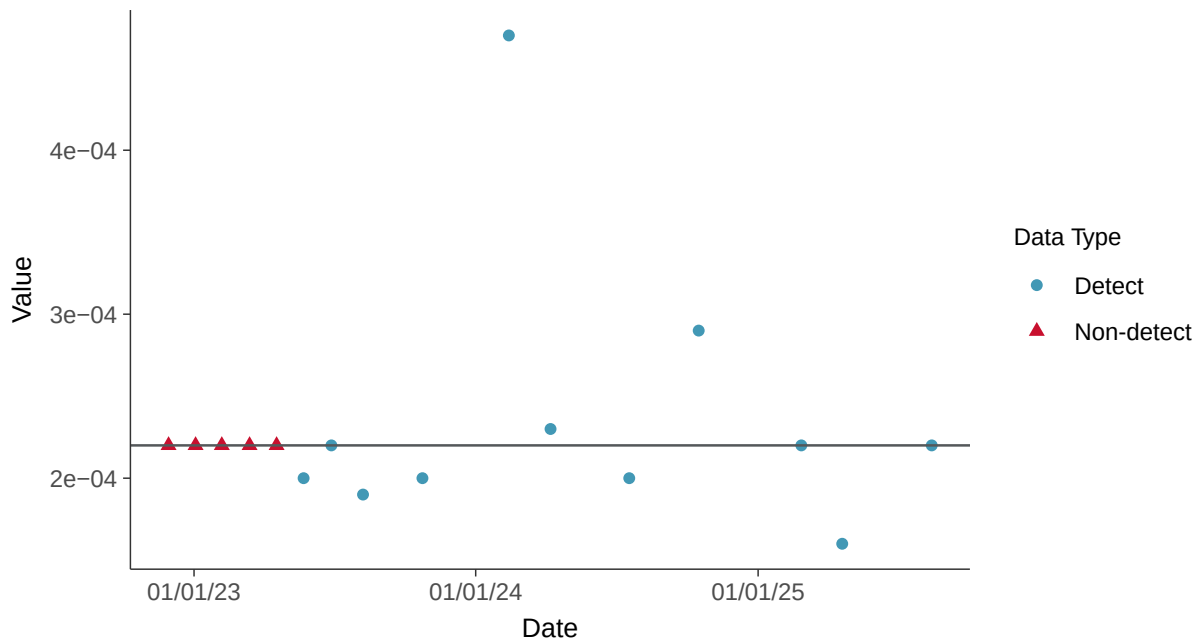
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-06 (mg/L)



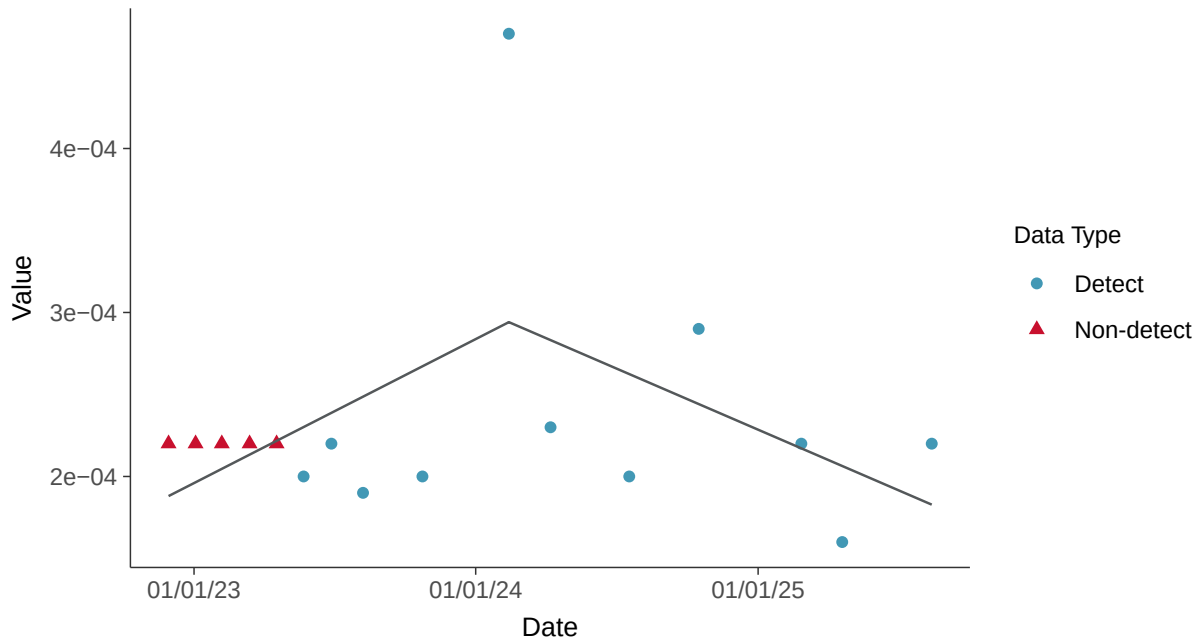
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-06 (mg/L)



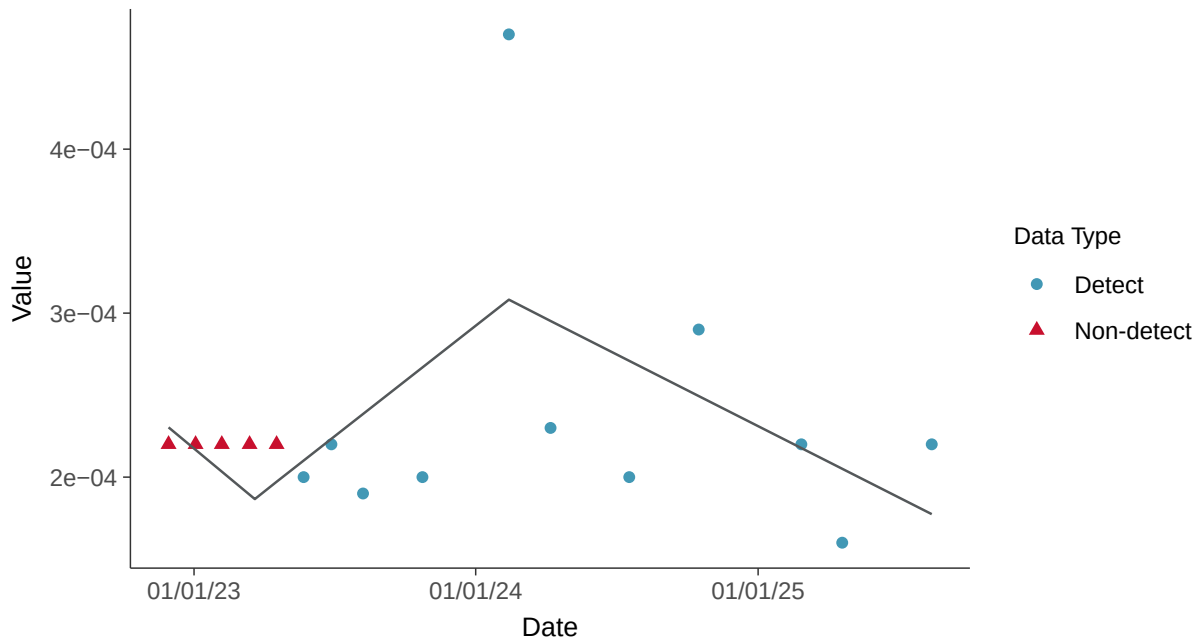
Trend Regression: Piecewise Linear-Linear

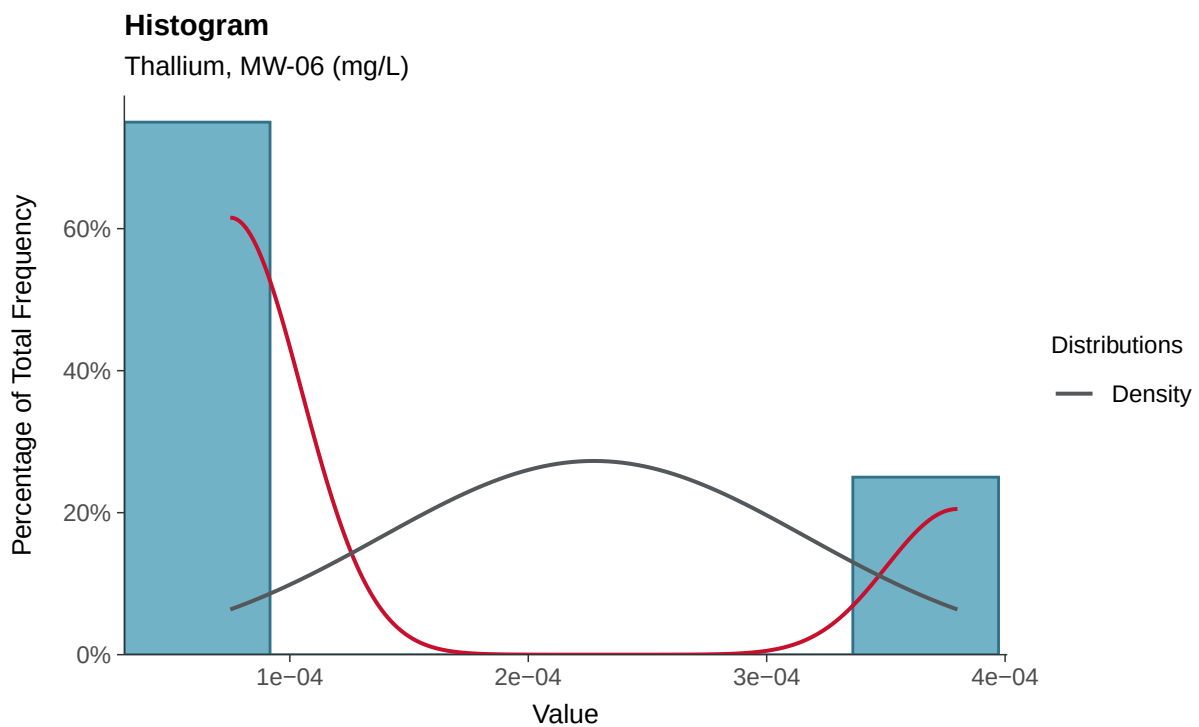
Selenium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

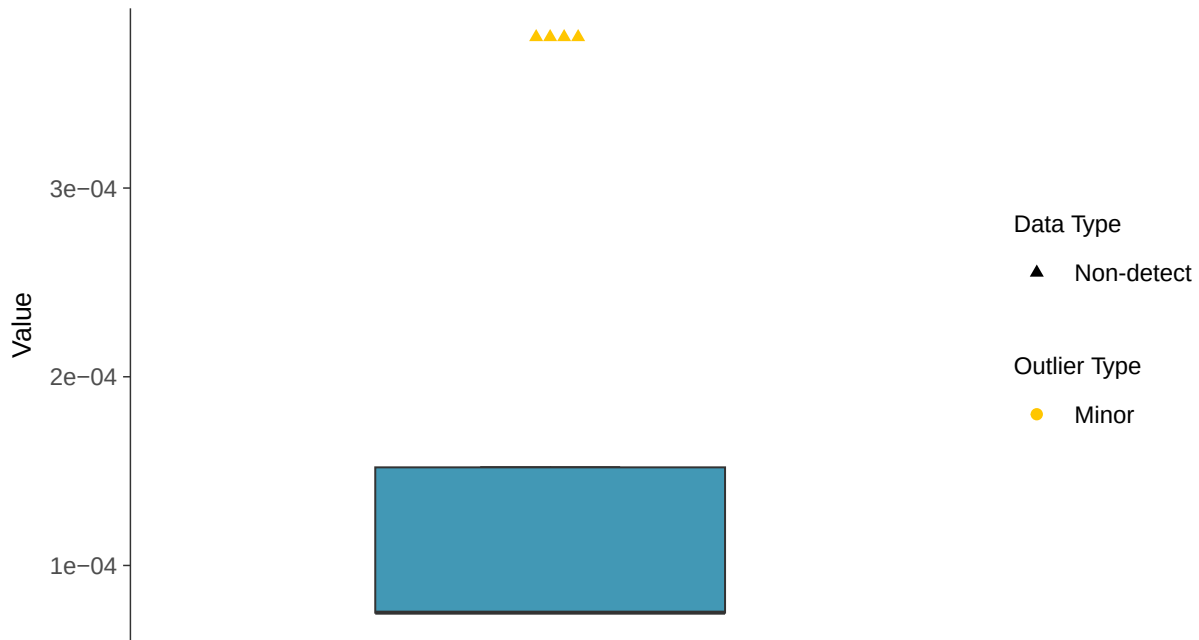
Selenium, MW-06 (mg/L)





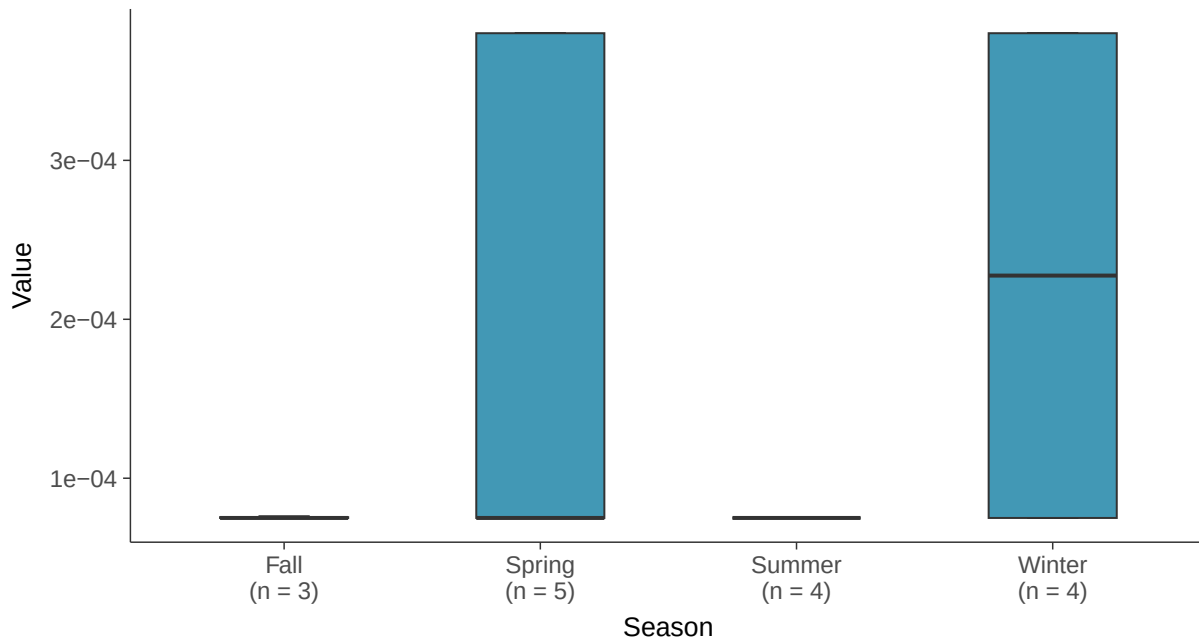
Boxplot

Thallium, MW-06 (mg/L)

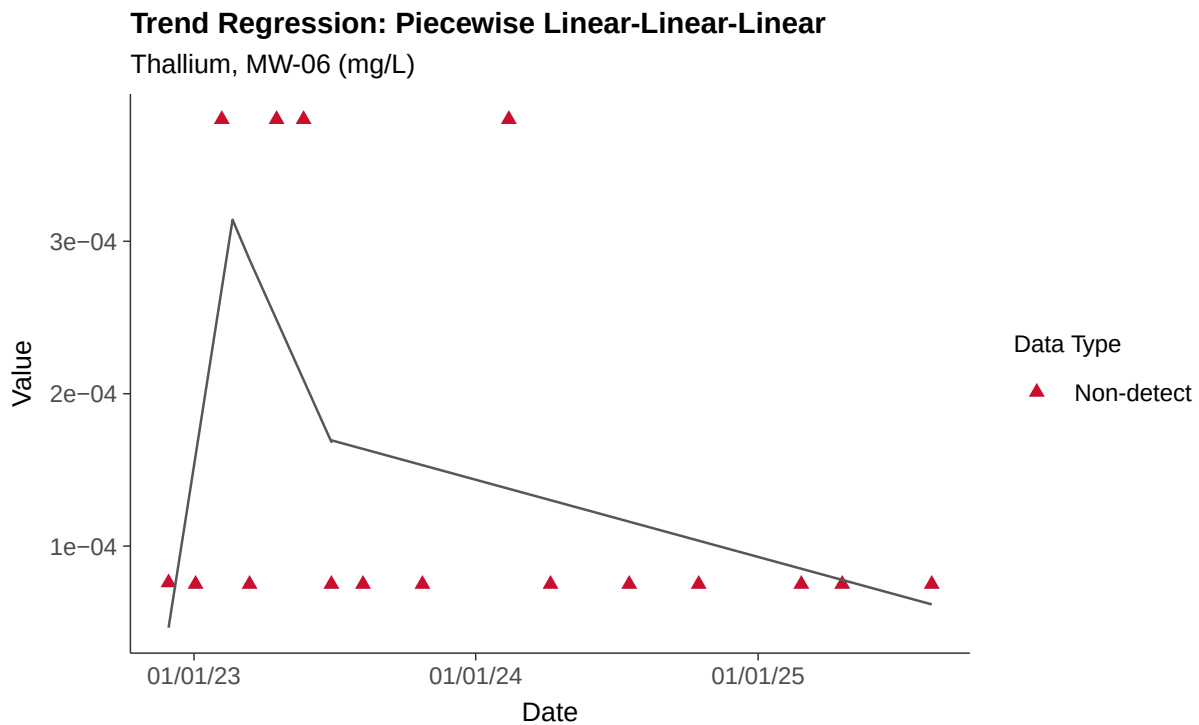


Boxplot by Season

Thallium, MW-06 (mg/L)

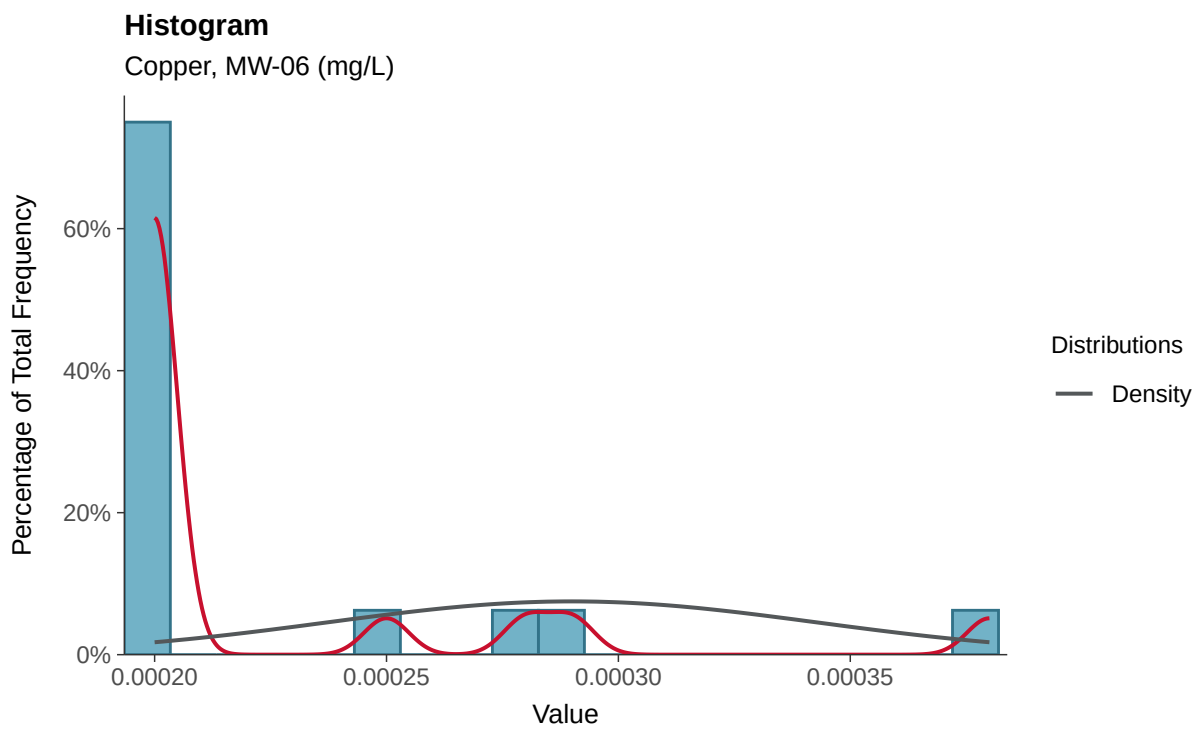
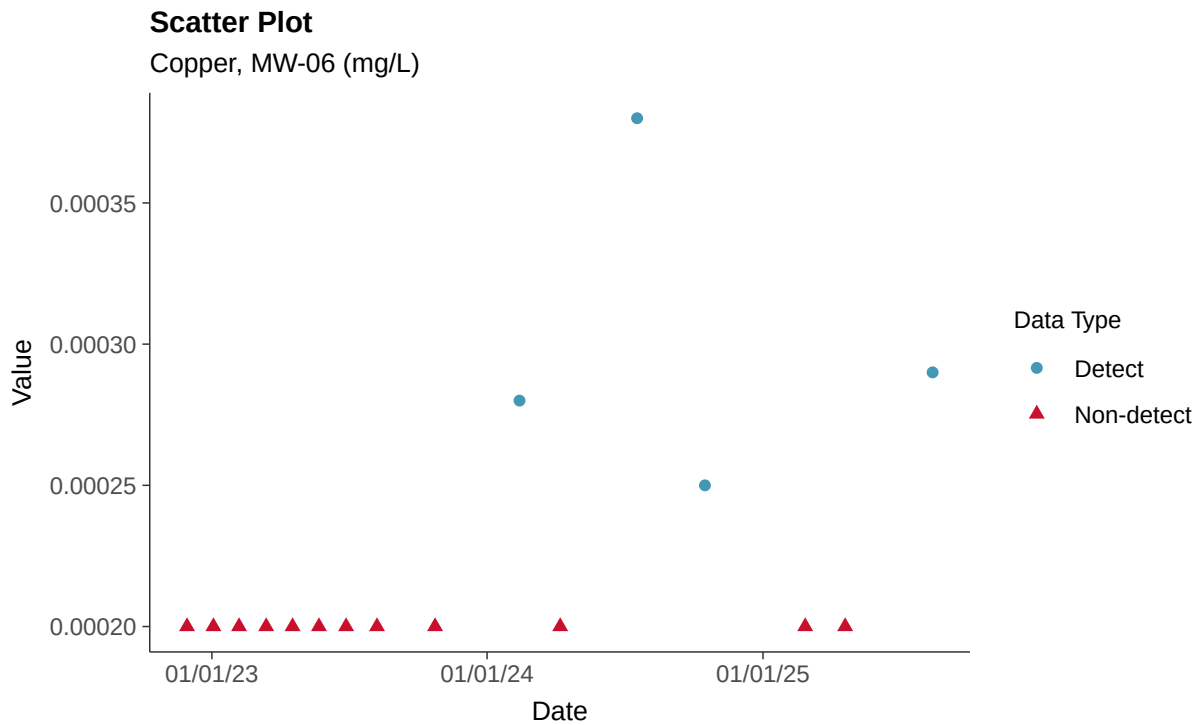


Thallium, MW-06 (mg/L)



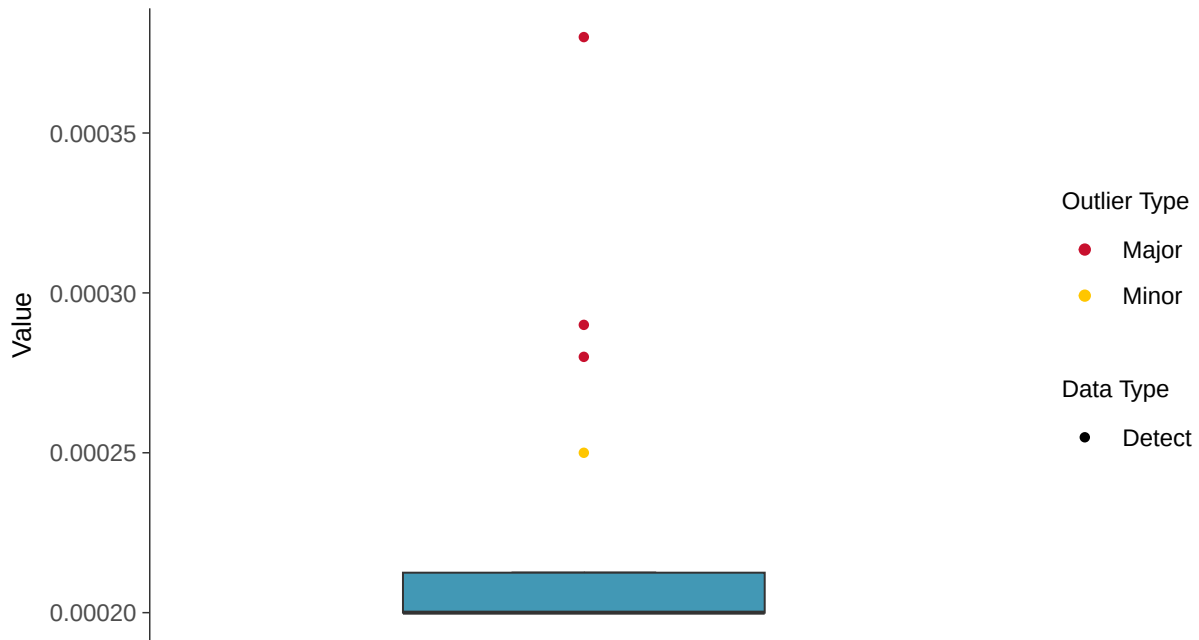
Part 115: Copper, MW-06

ID: 16_1_5_111



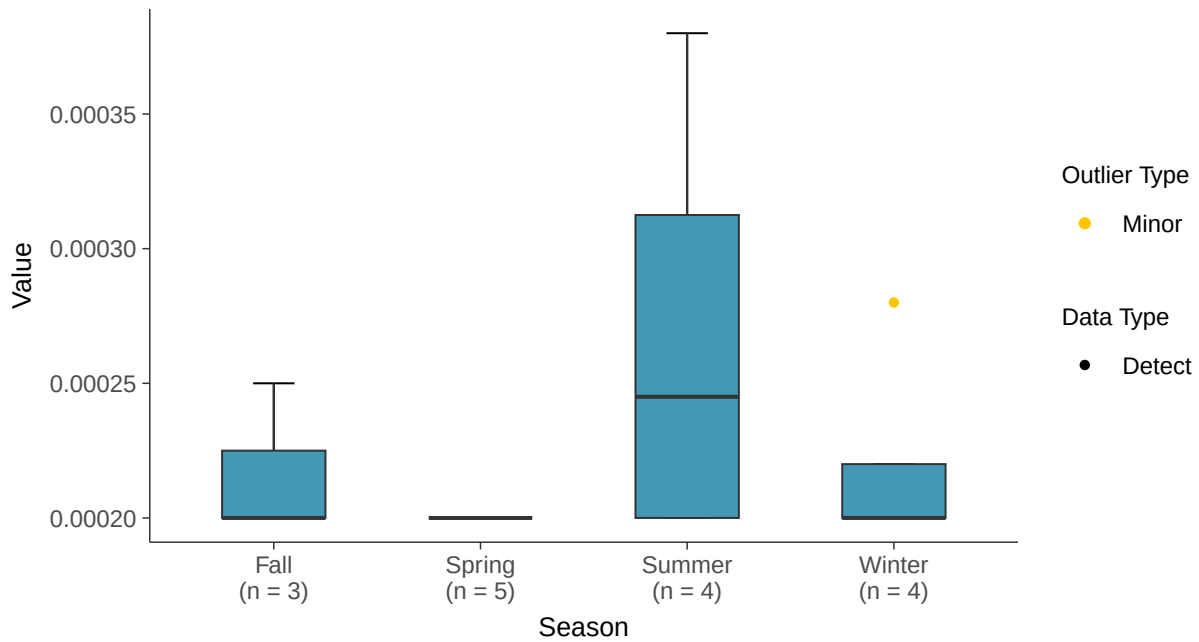
Boxplot

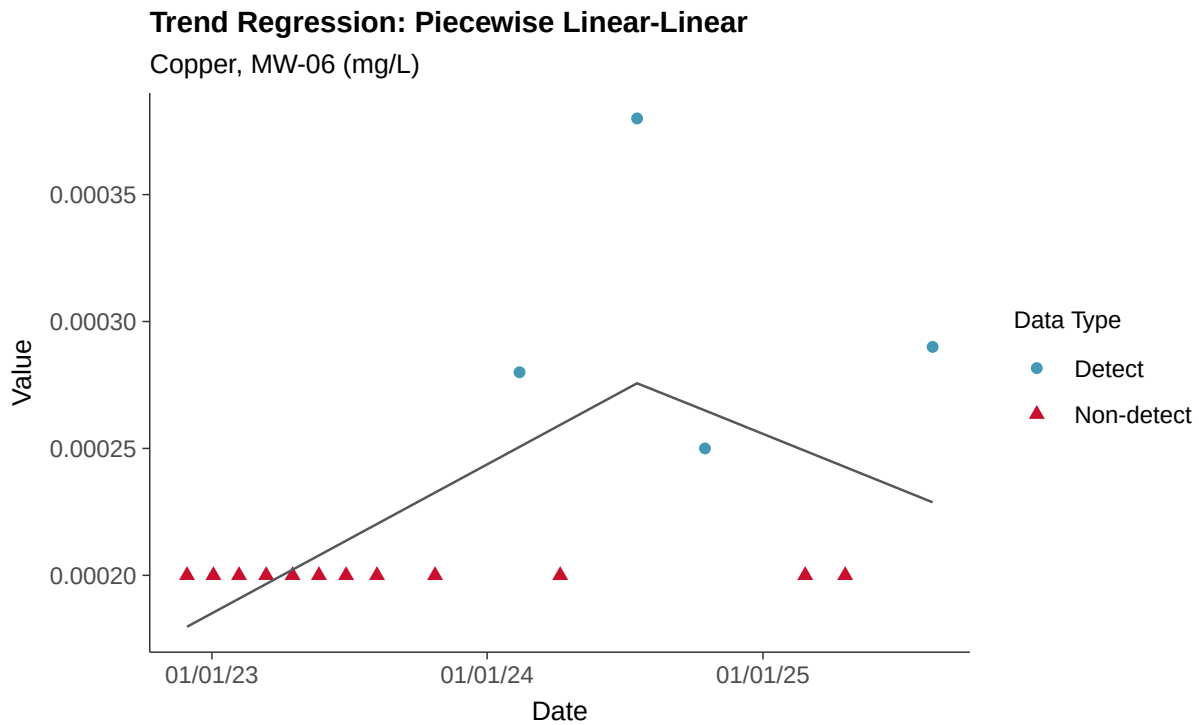
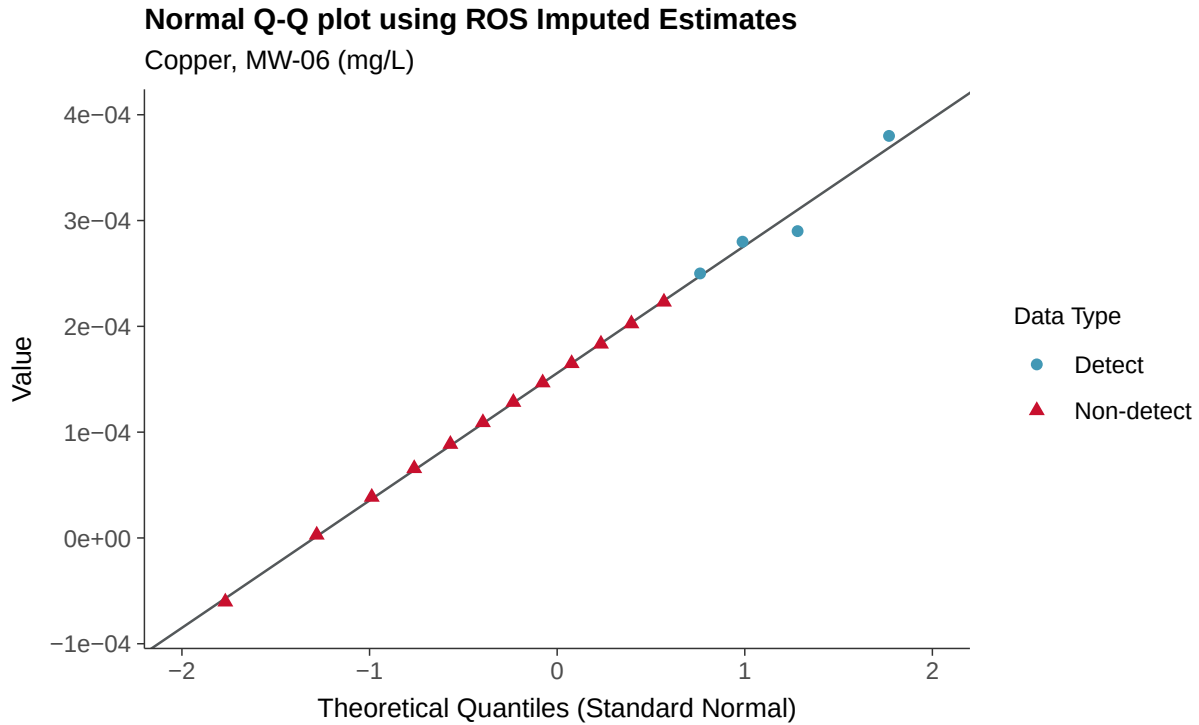
Copper, MW-06 (mg/L)



Boxplot by Season

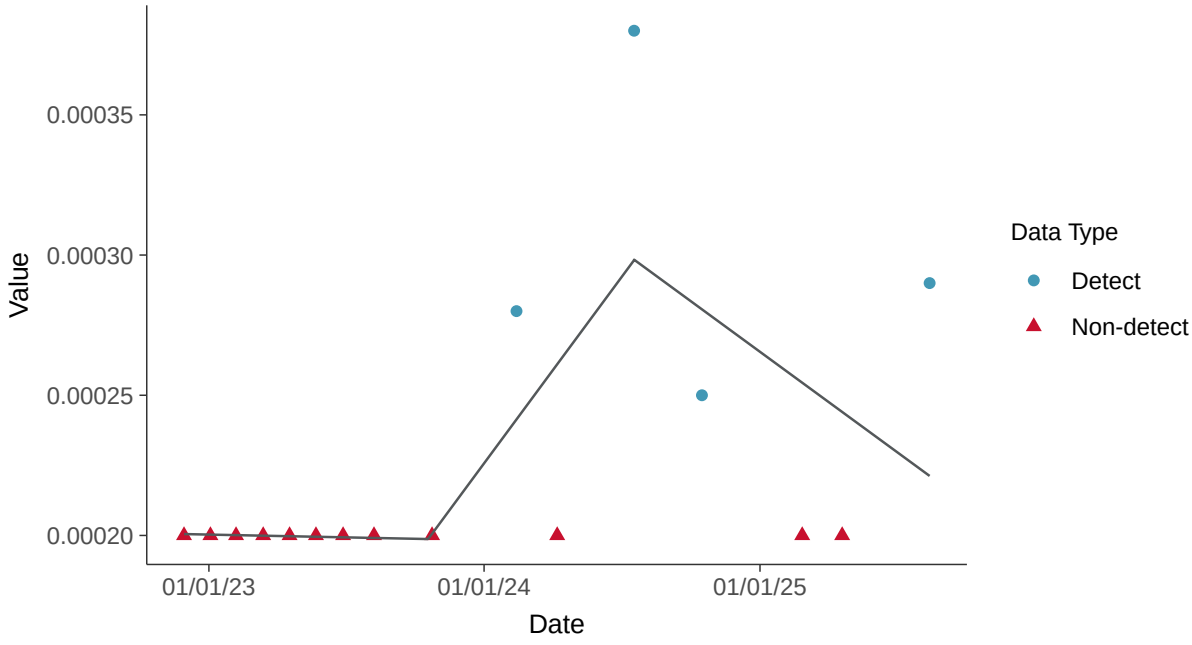
Copper, MW-06 (mg/L)





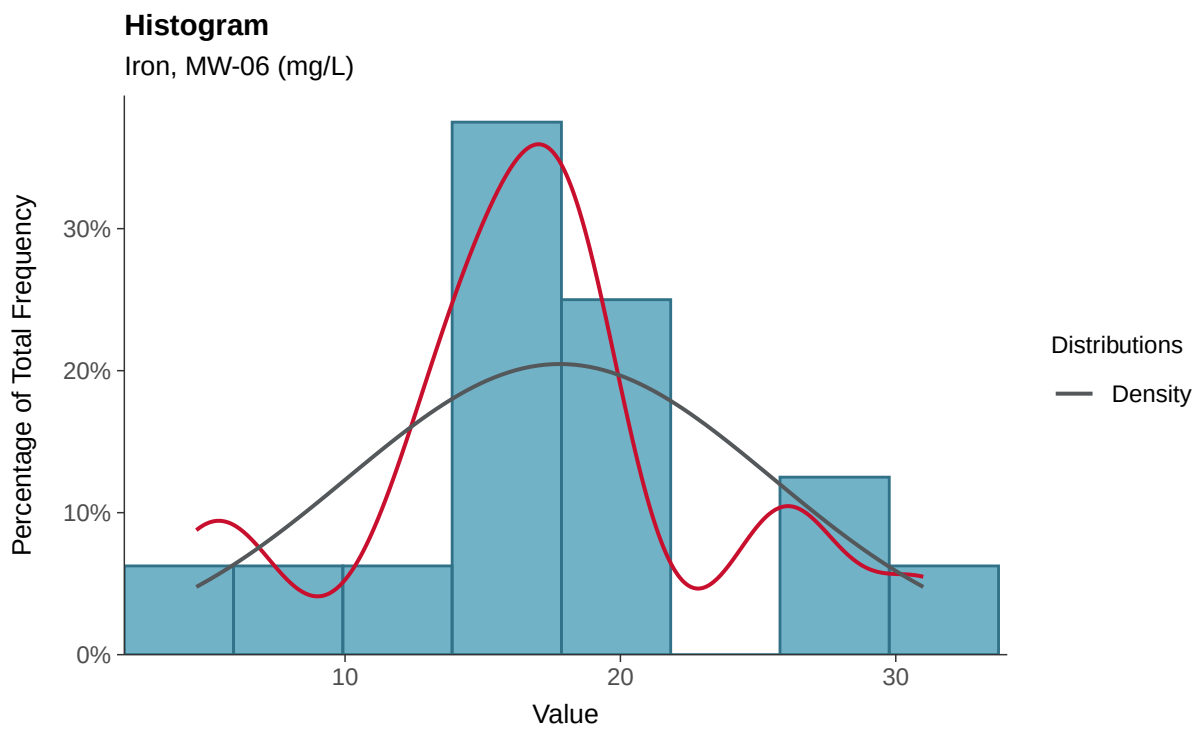
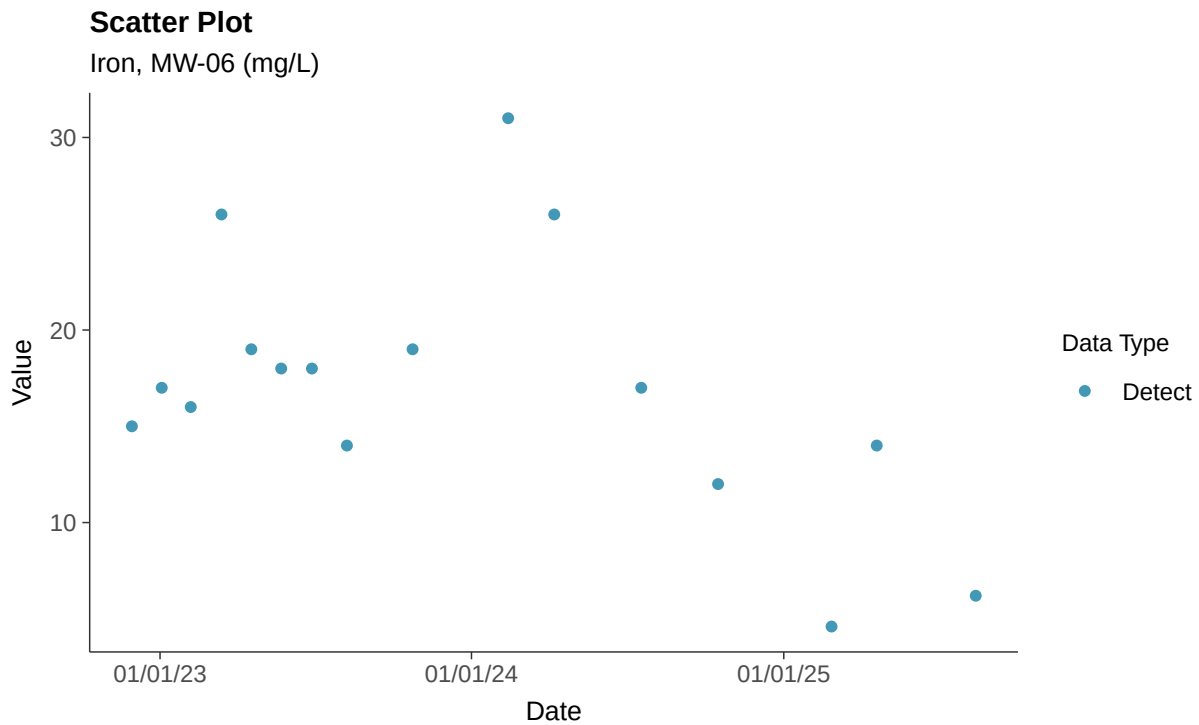


Trend Regression: Piecewise Linear-Linear-Linear
Copper, MW-06 (mg/L)



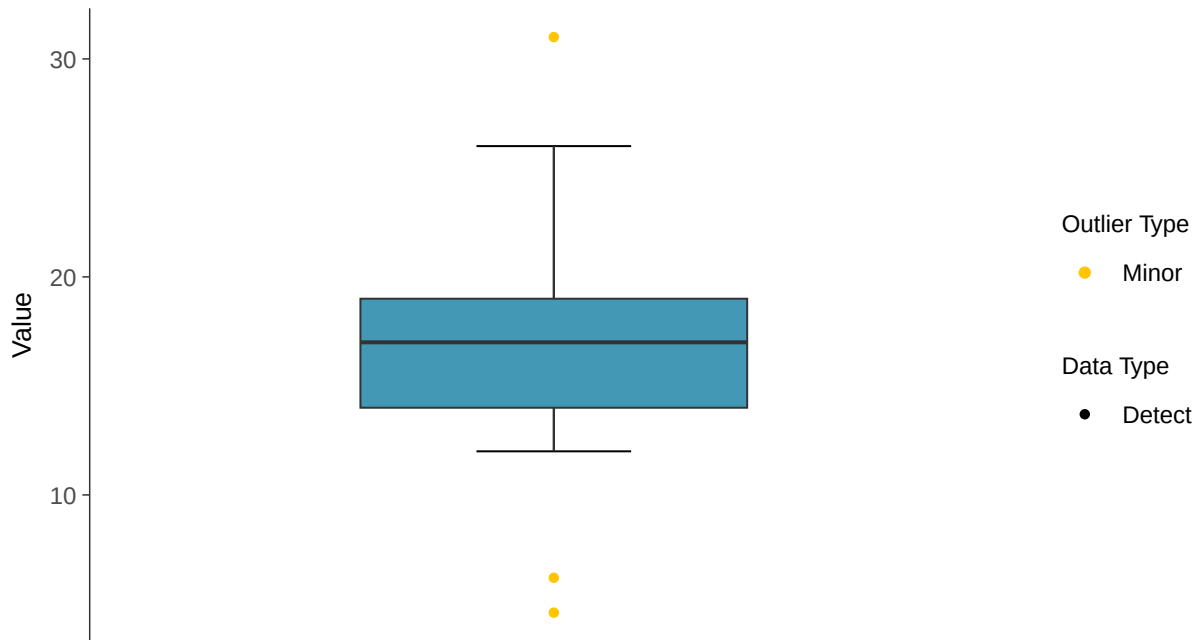
Part 115: Iron, MW-06

ID: 16_1_5_114



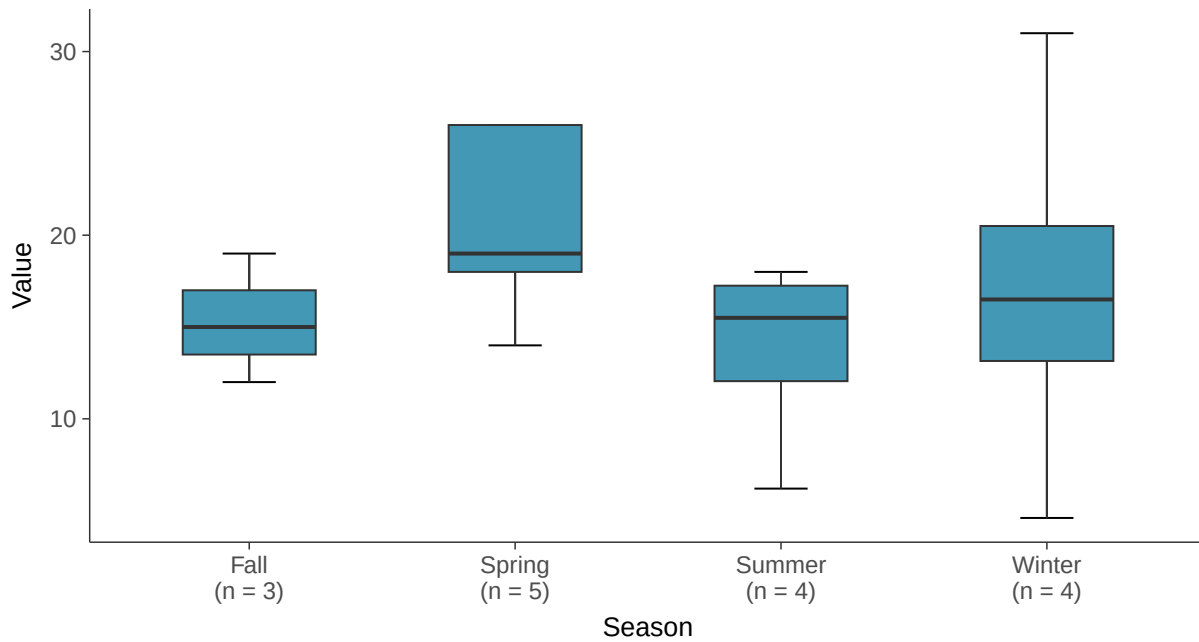
Boxplot

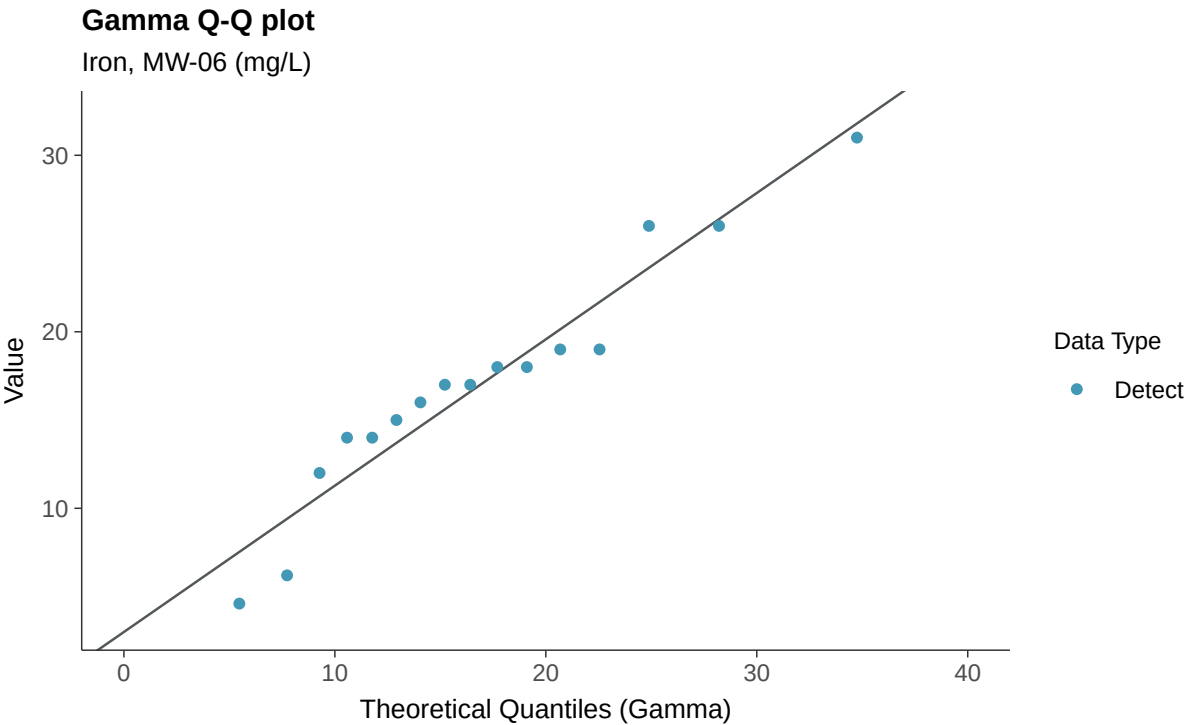
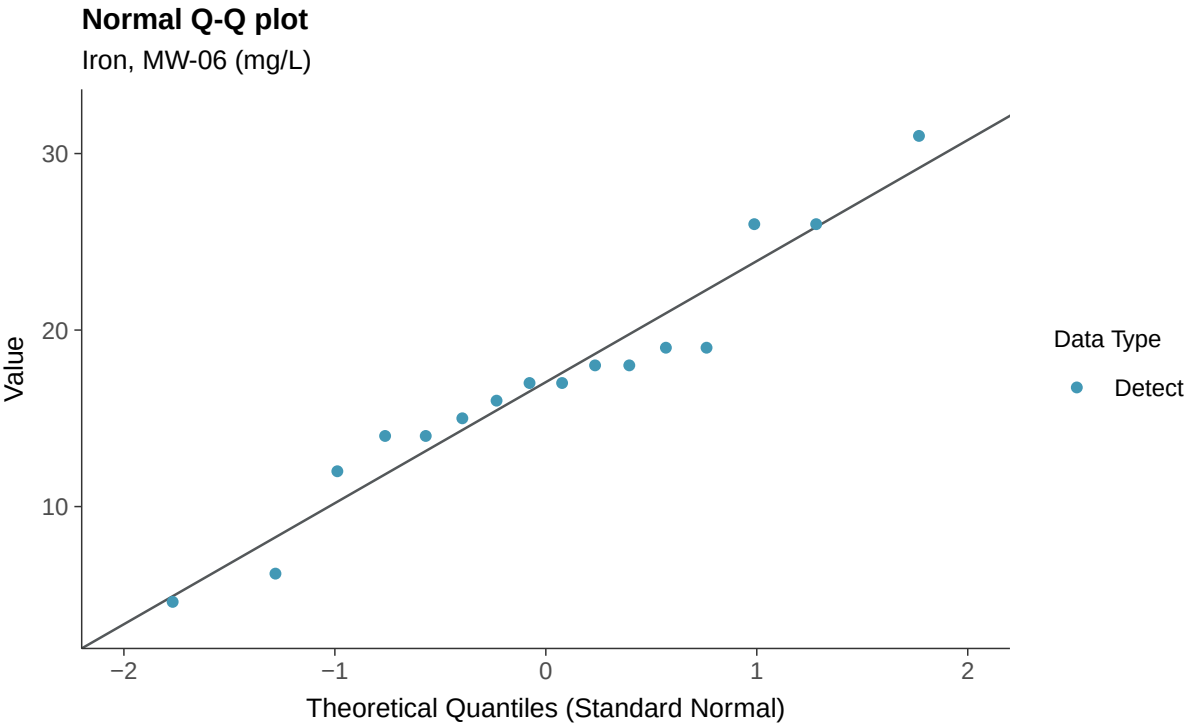
Iron, MW-06 (mg/L)



Boxplot by Season

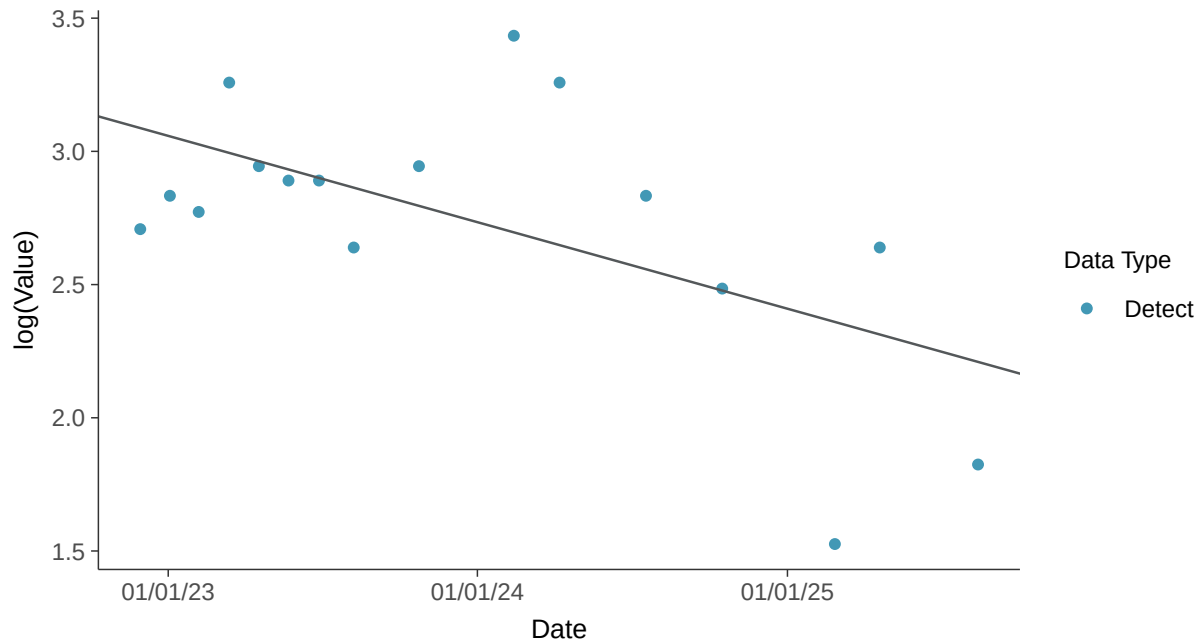
Iron, MW-06 (mg/L)





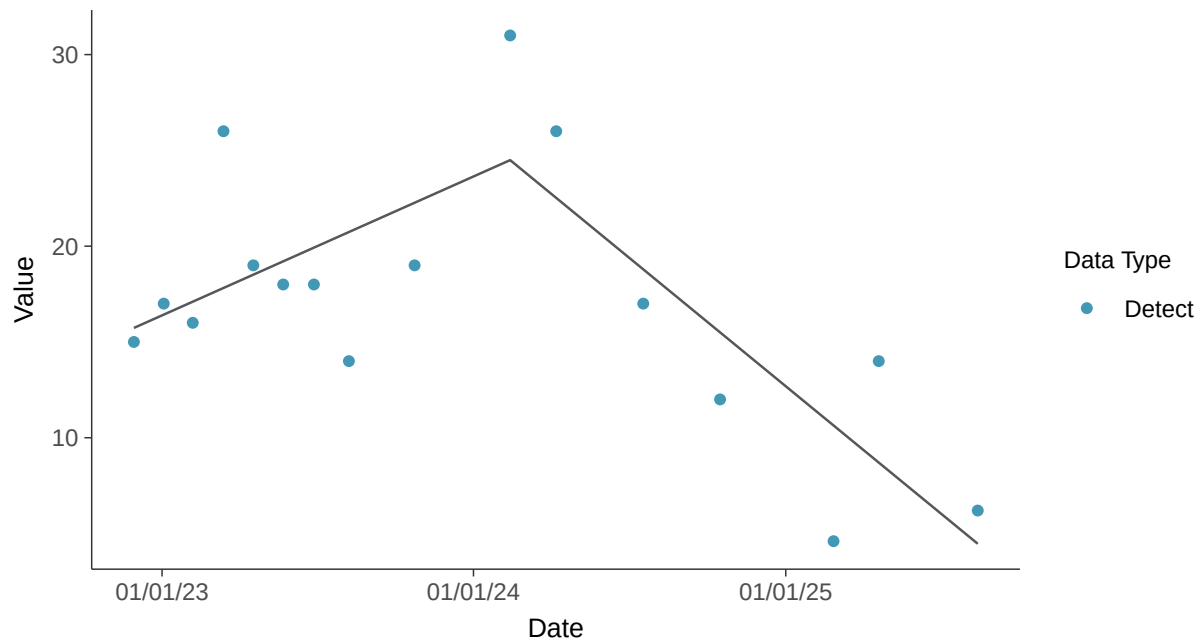
Trend Regression: Lognormal MLE

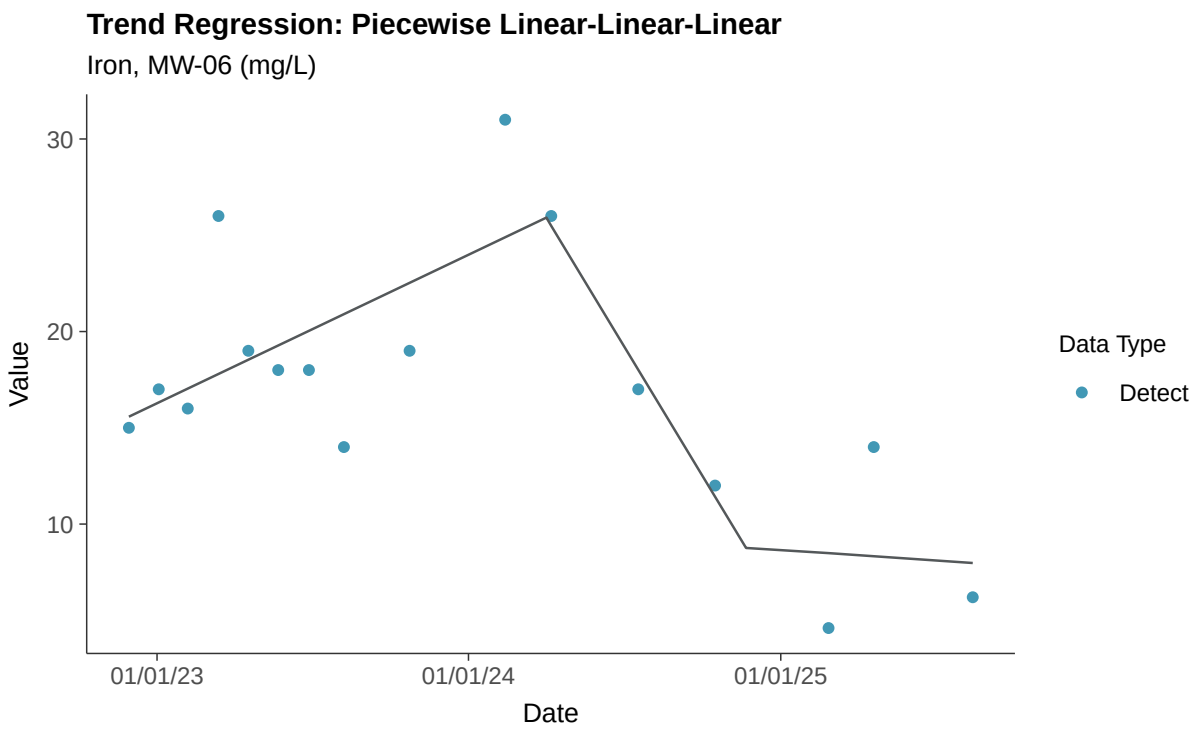
Iron, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

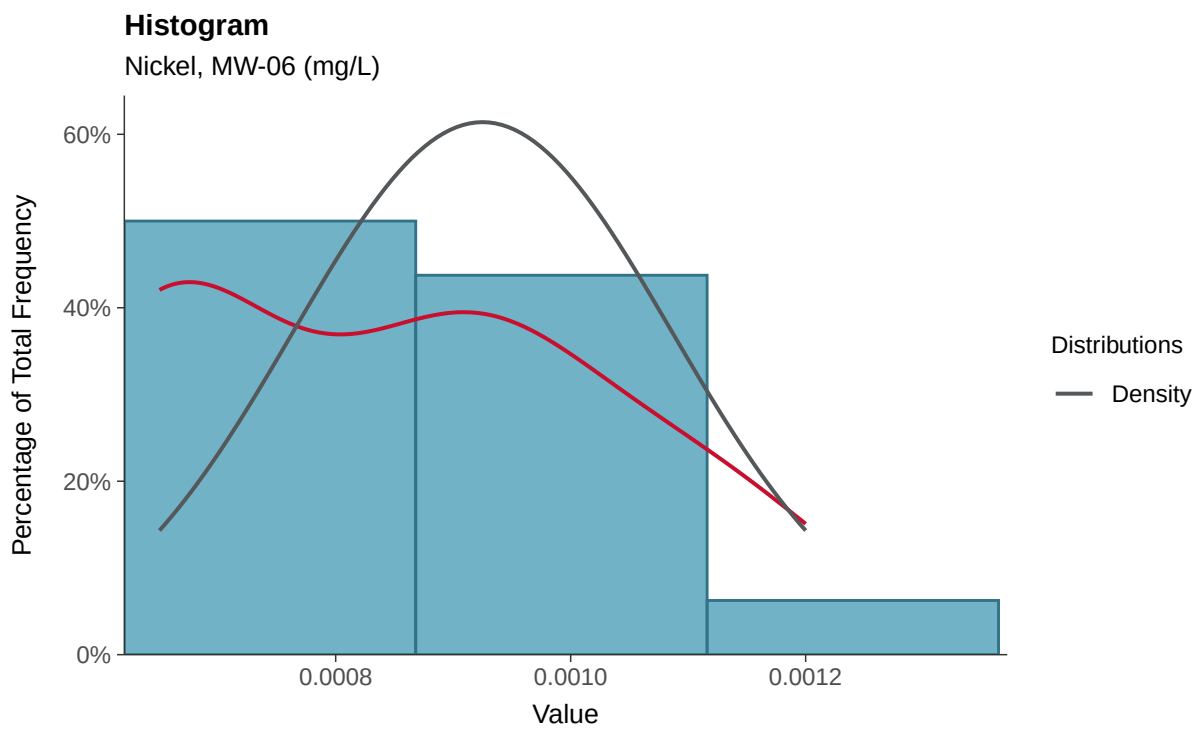
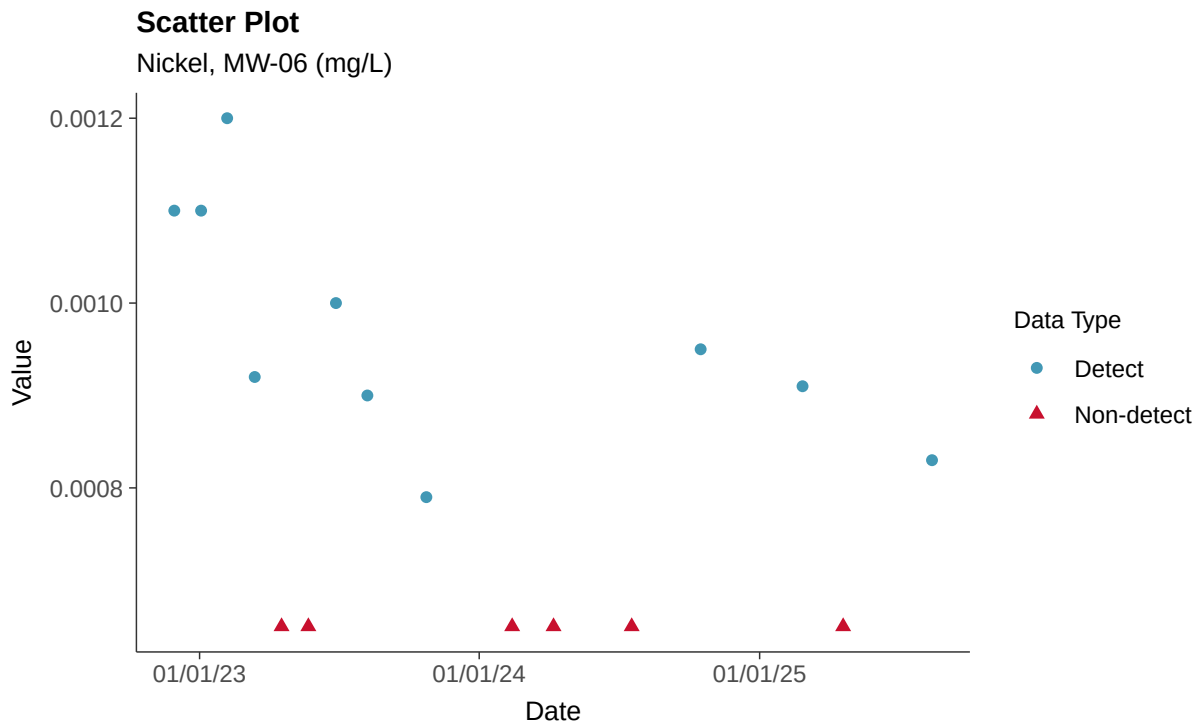
Iron, MW-06 (mg/L)





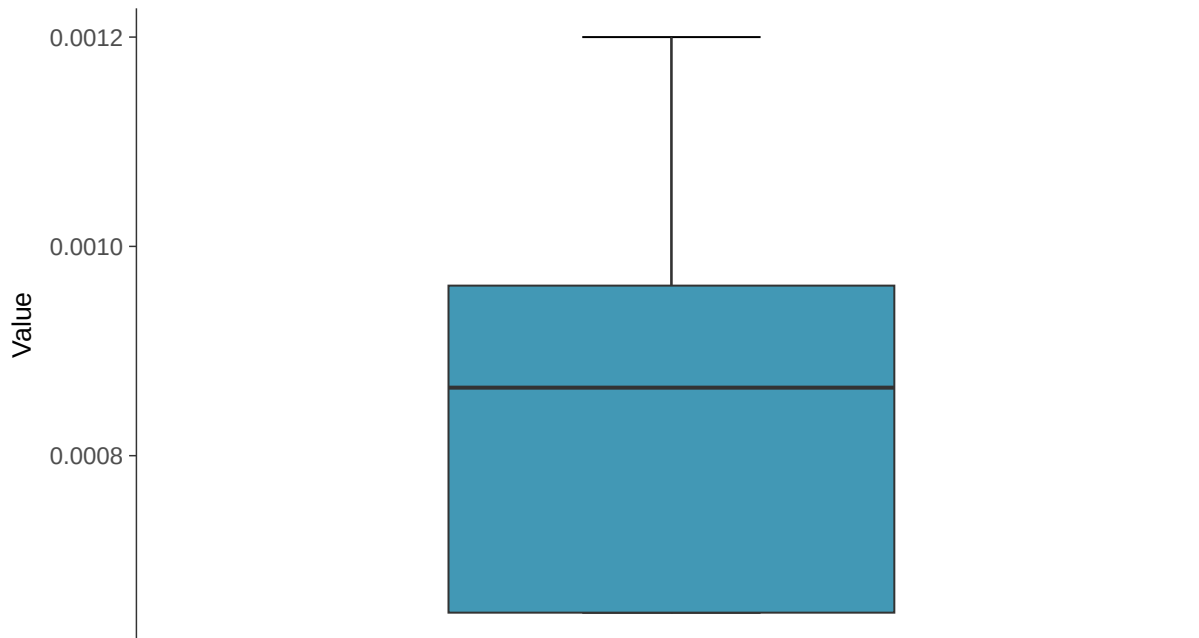
Part 115: Nickel, MW-06

ID: 16_1_5_119



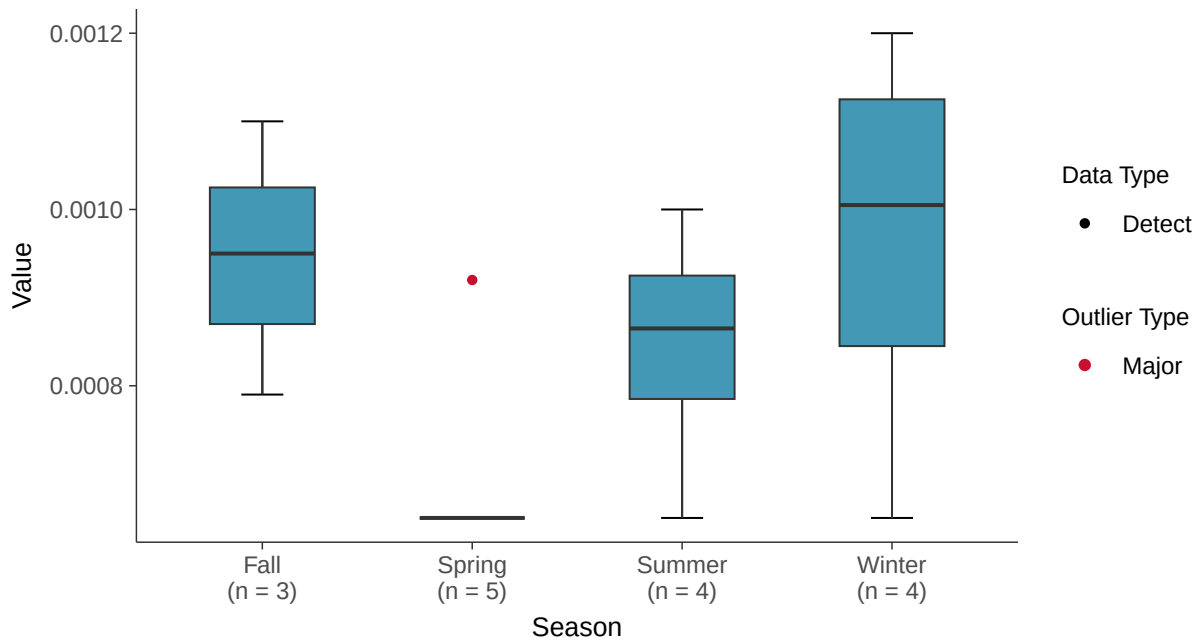
Boxplot

Nickel, MW-06 (mg/L)



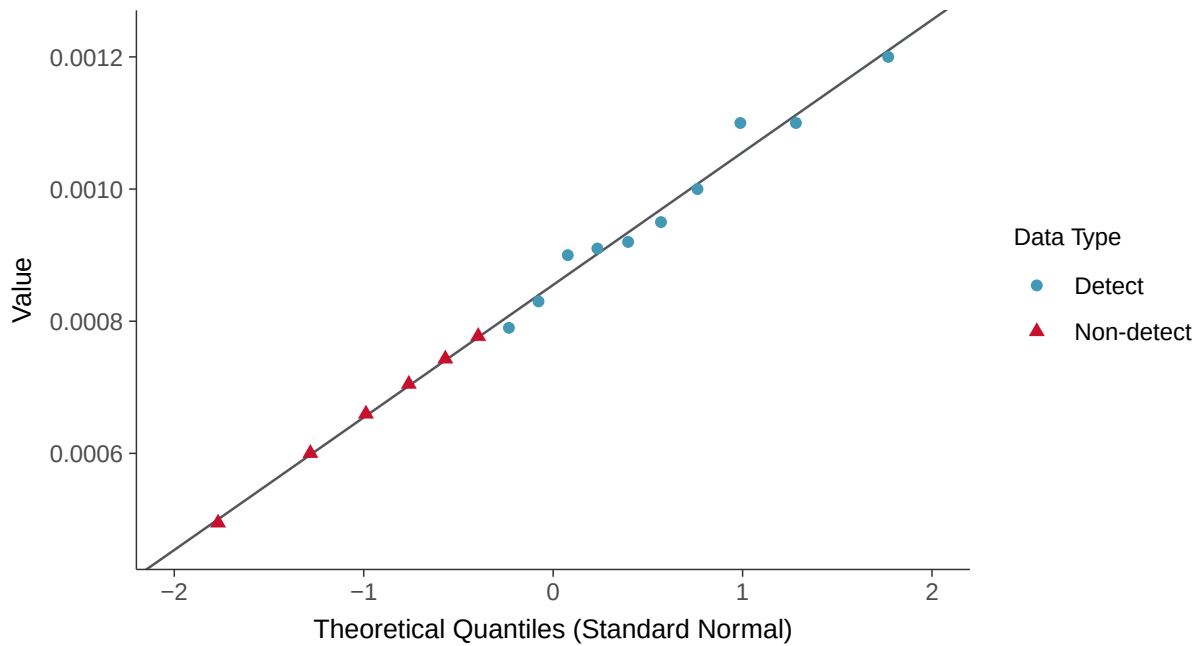
Boxplot by Season

Nickel, MW-06 (mg/L)



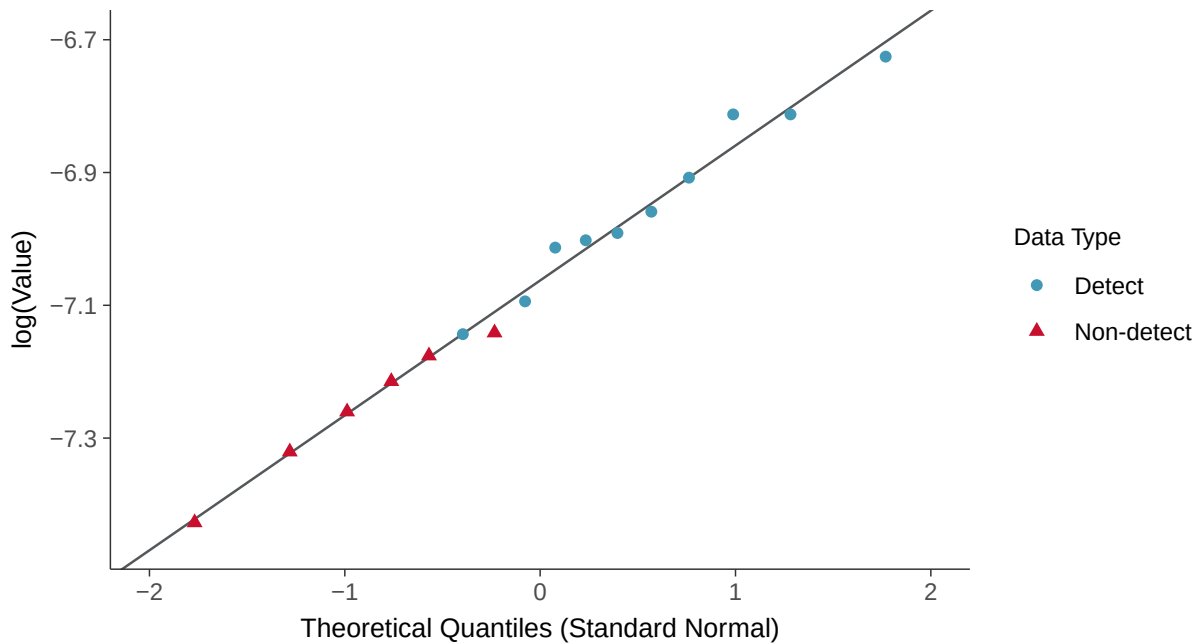
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-06 (mg/L)



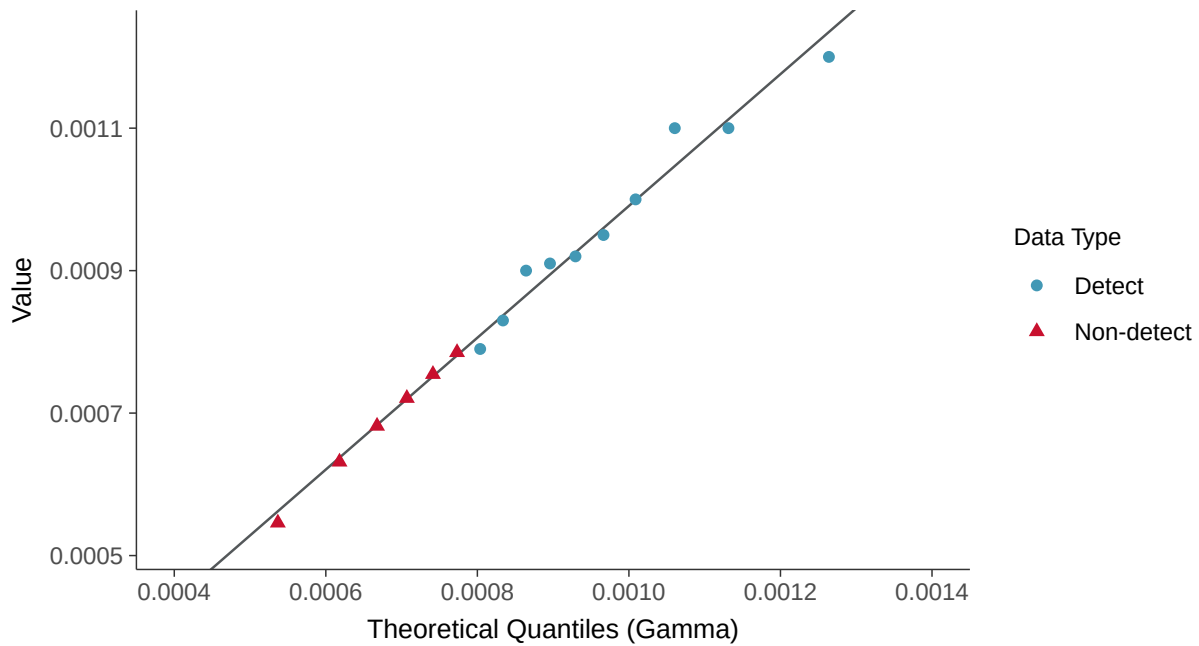
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-06 (mg/L)



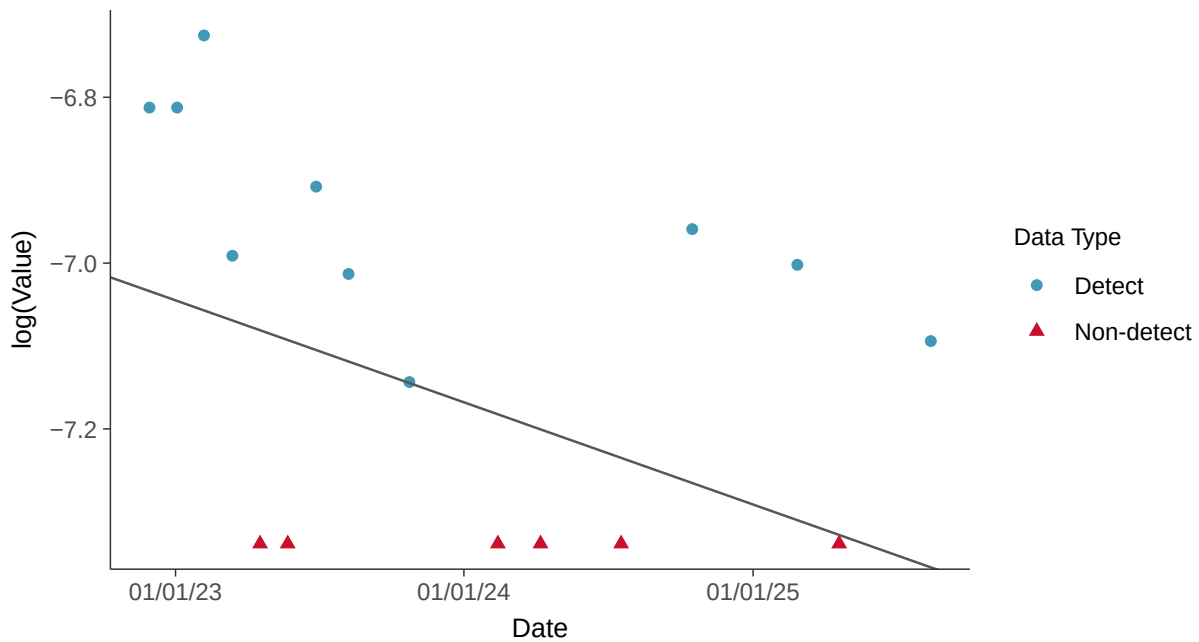
Gamma Q-Q plot using ROS Imputed Estimates

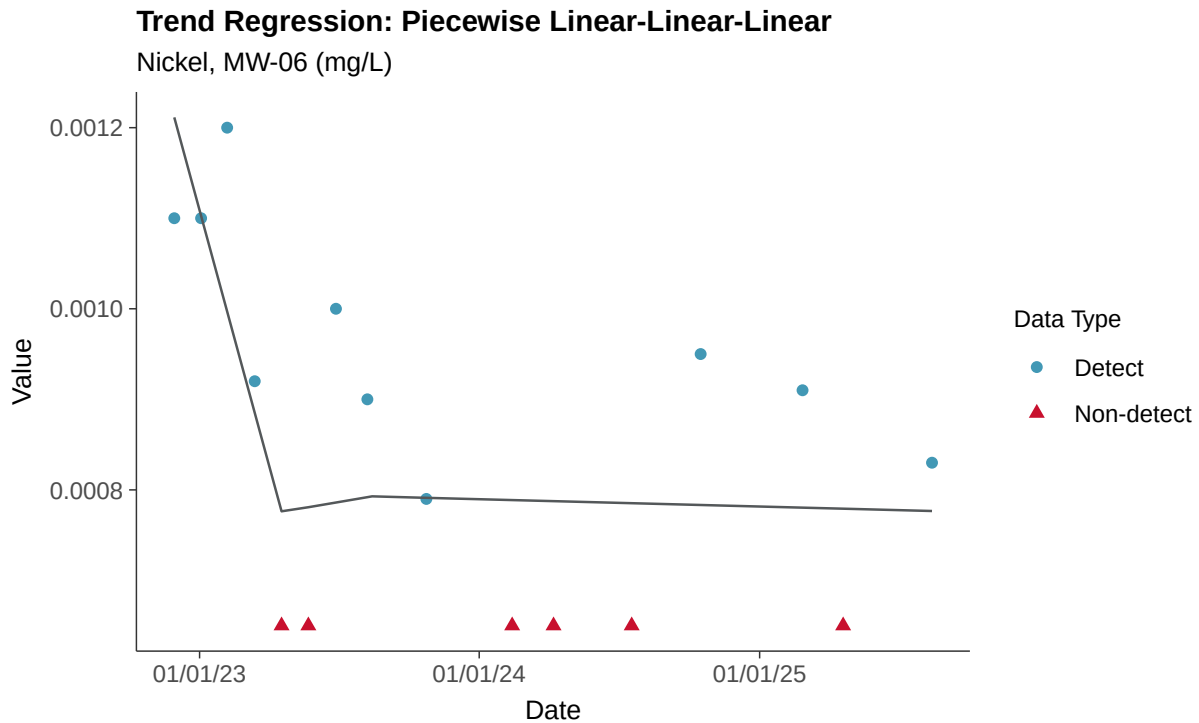
Nickel, MW-06 (mg/L)

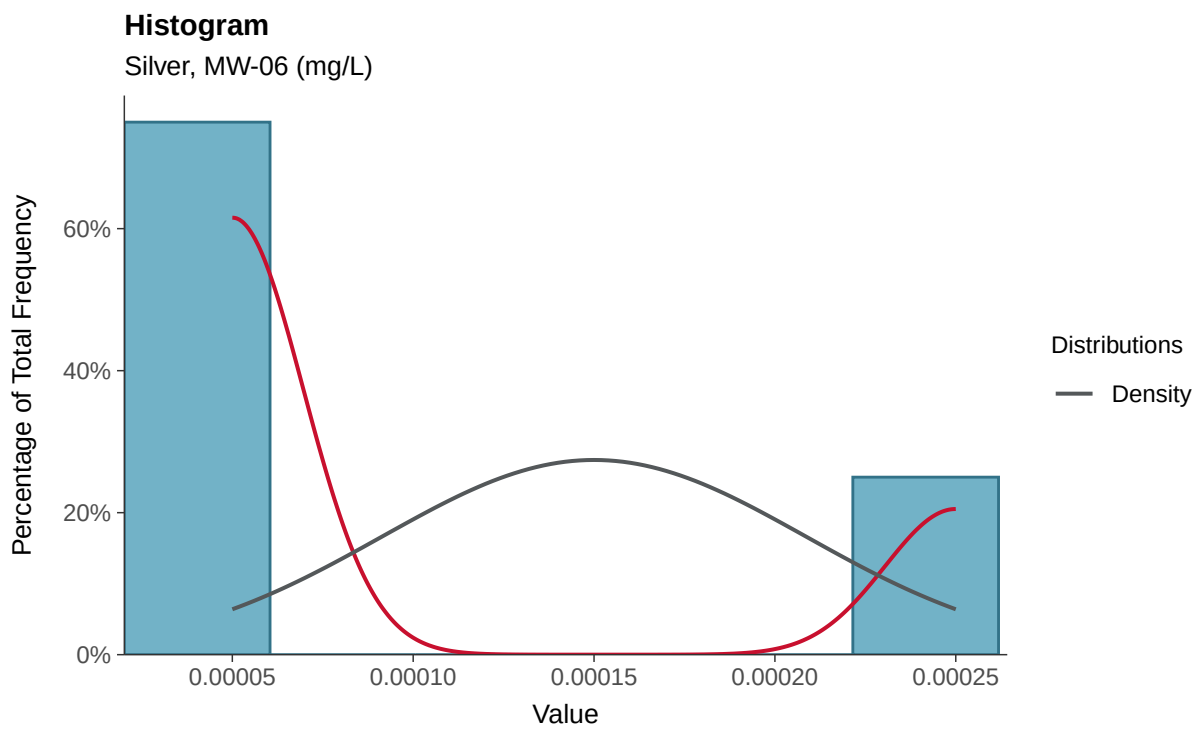


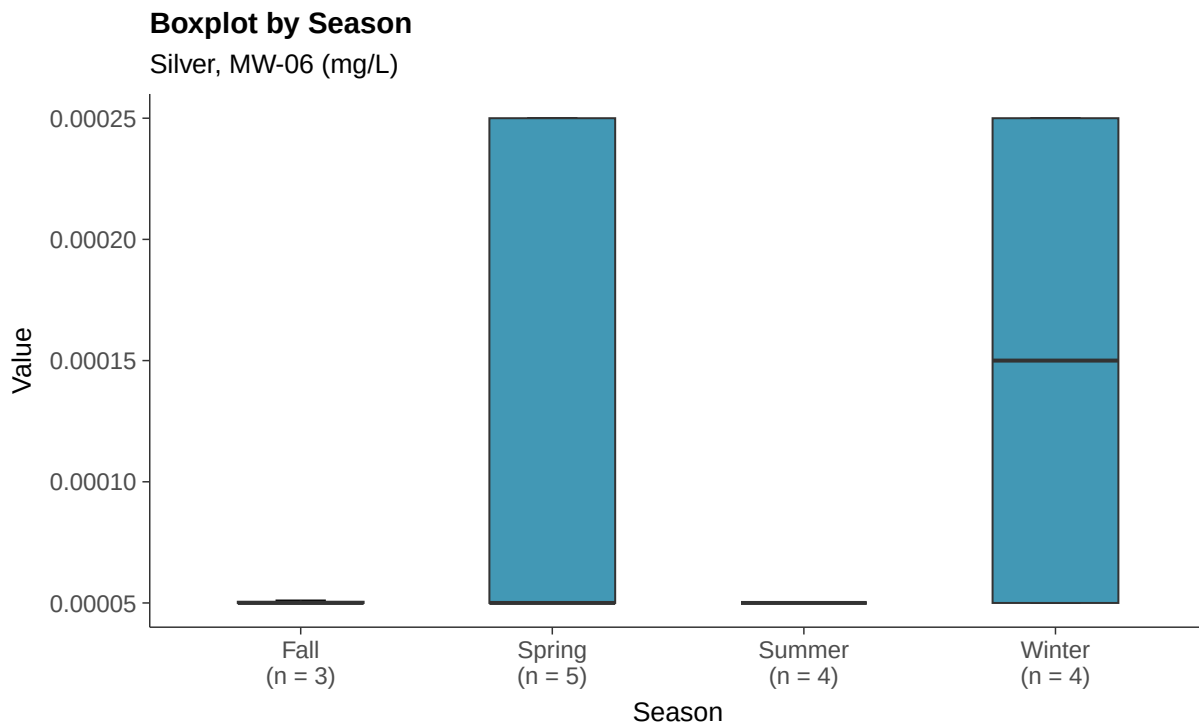
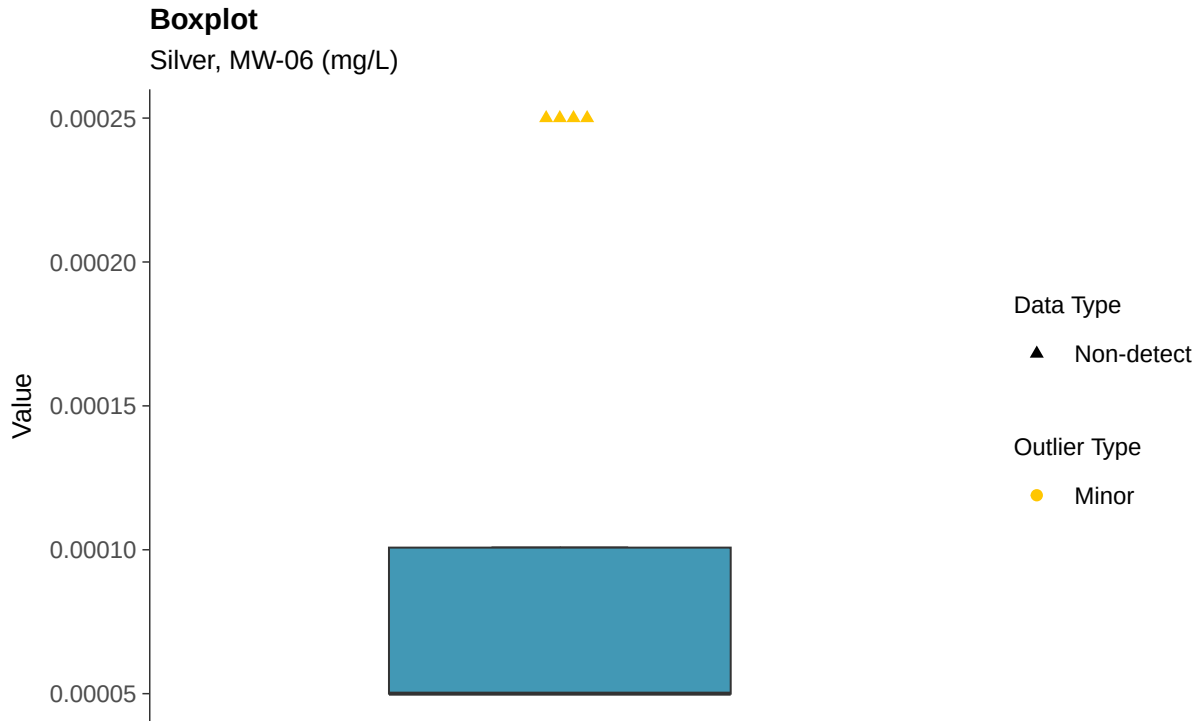
Trend Regression: Lognormal MLE

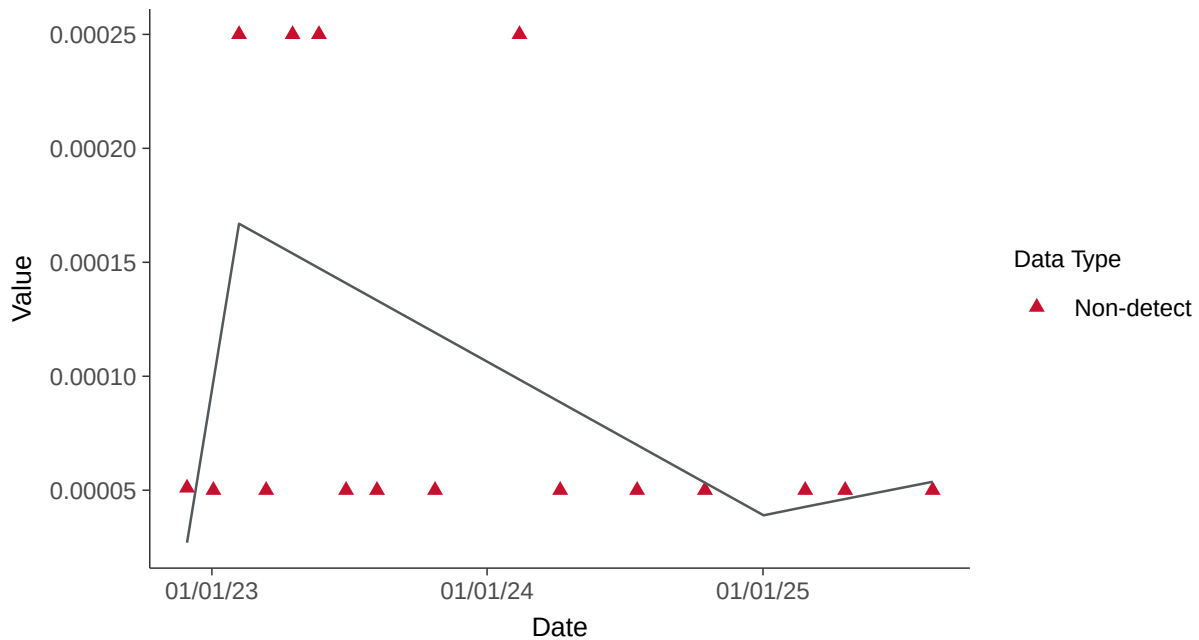
Nickel, MW-06 (mg/L)





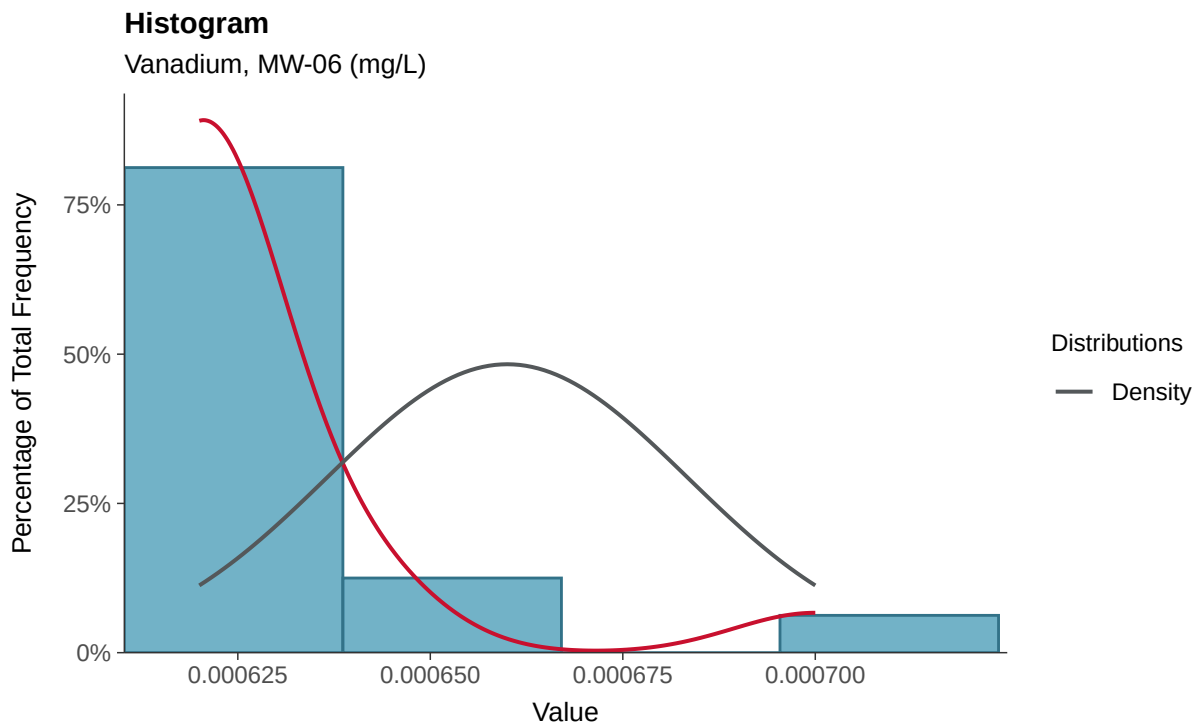
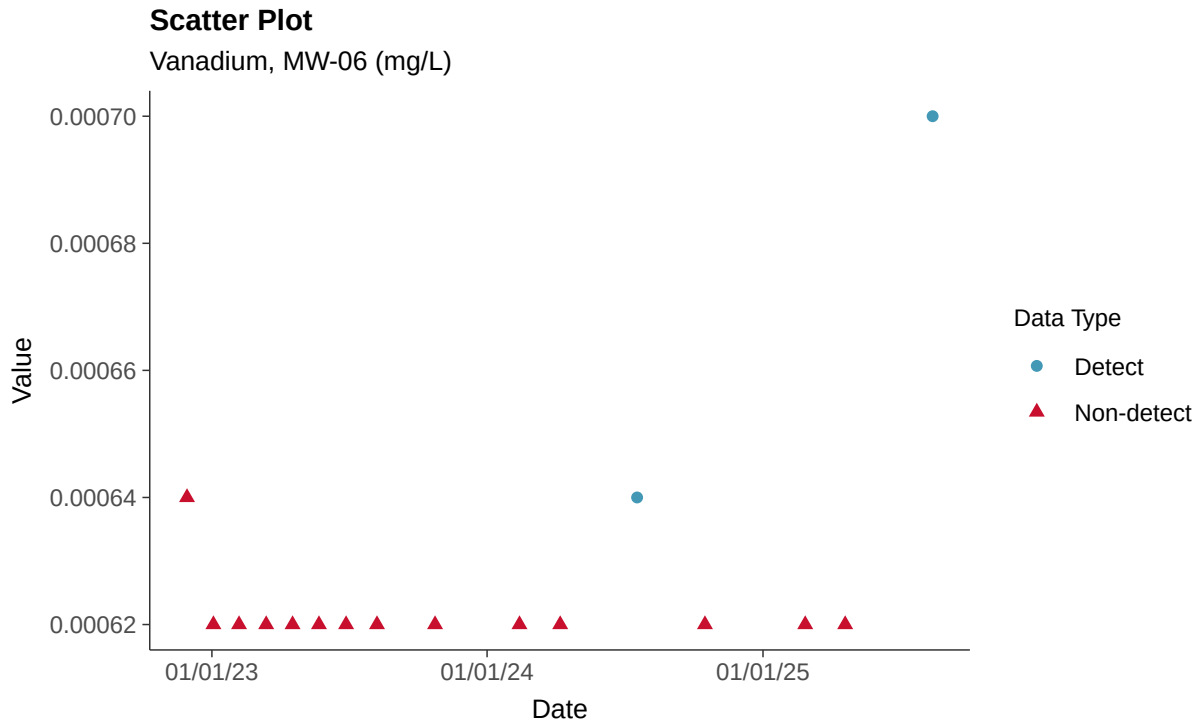






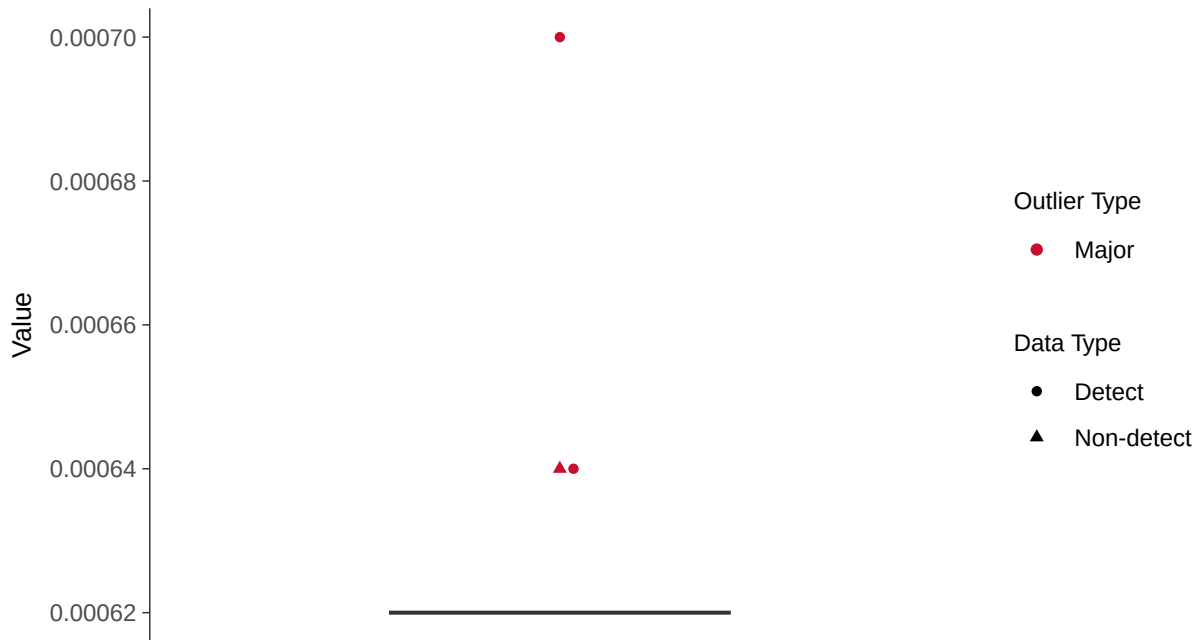
Part 115: Vanadium, MW-06

ID: 16_1_5_128



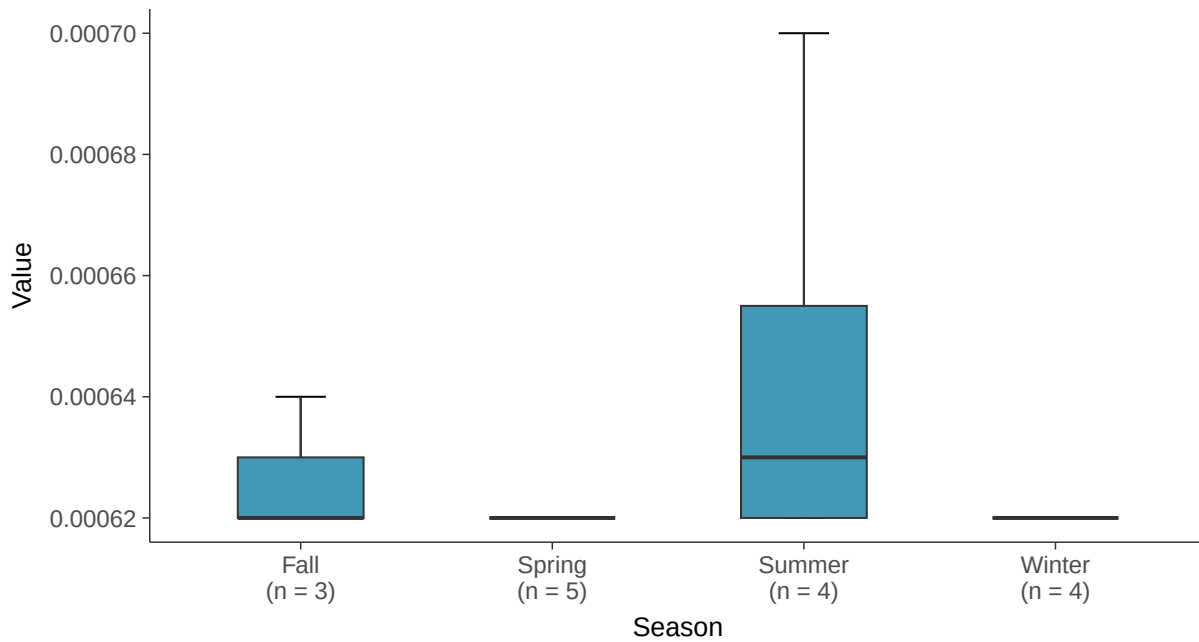
Boxplot

Vanadium, MW-06 (mg/L)

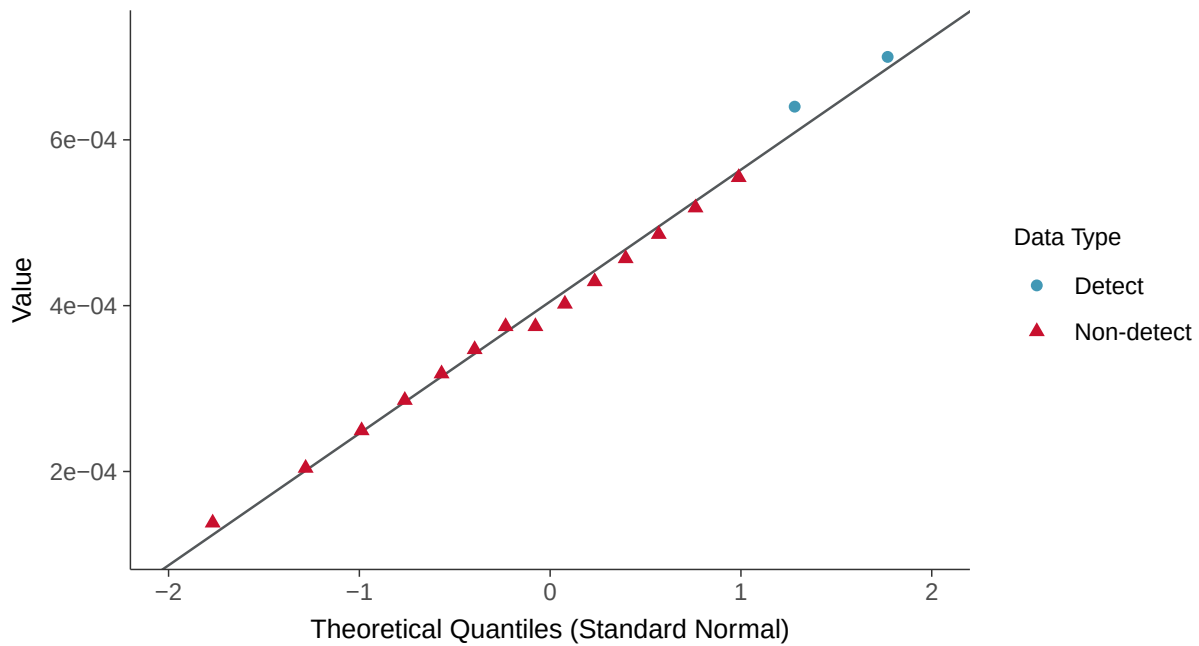


Boxplot by Season

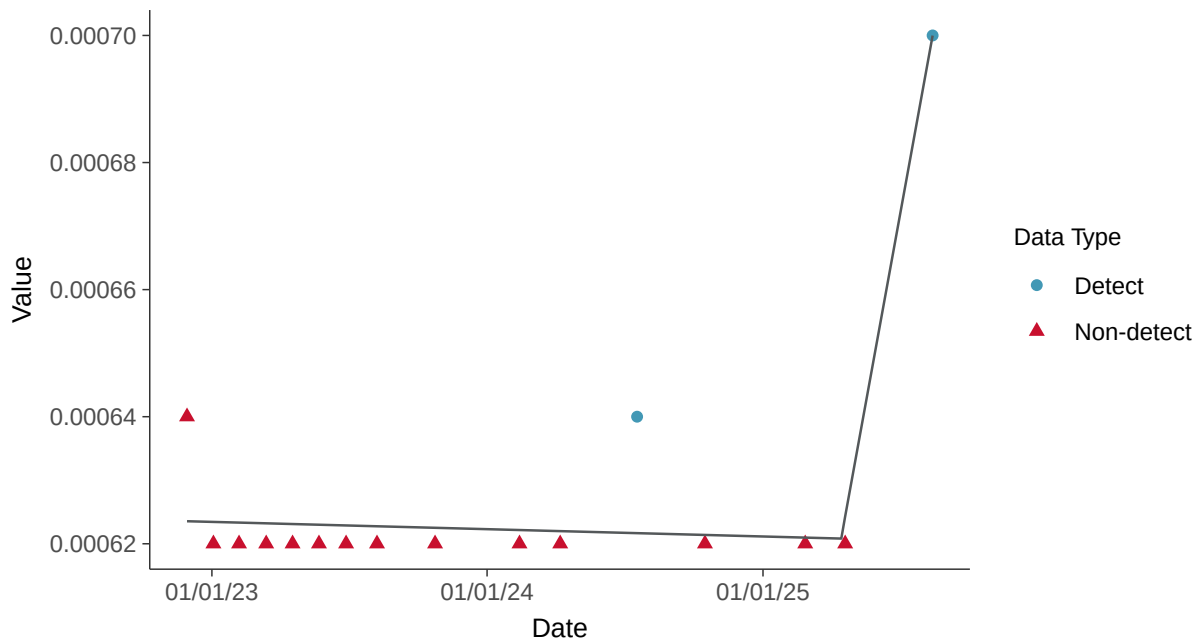
Vanadium, MW-06 (mg/L)

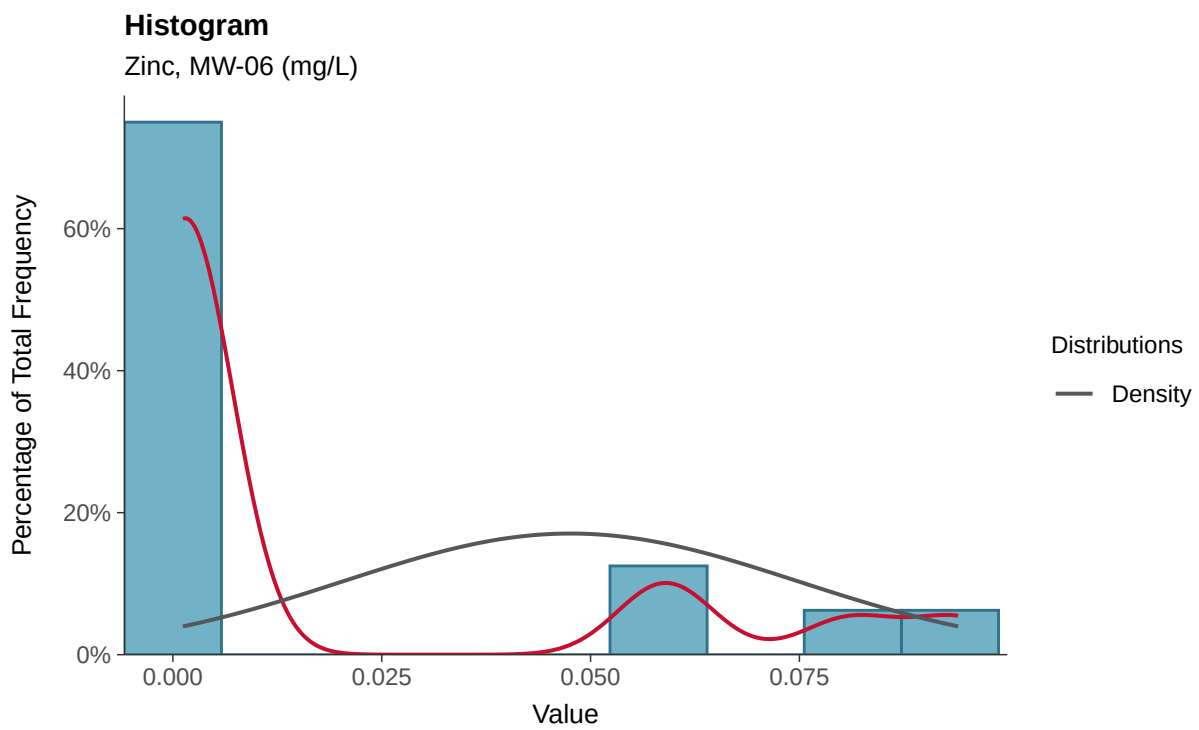


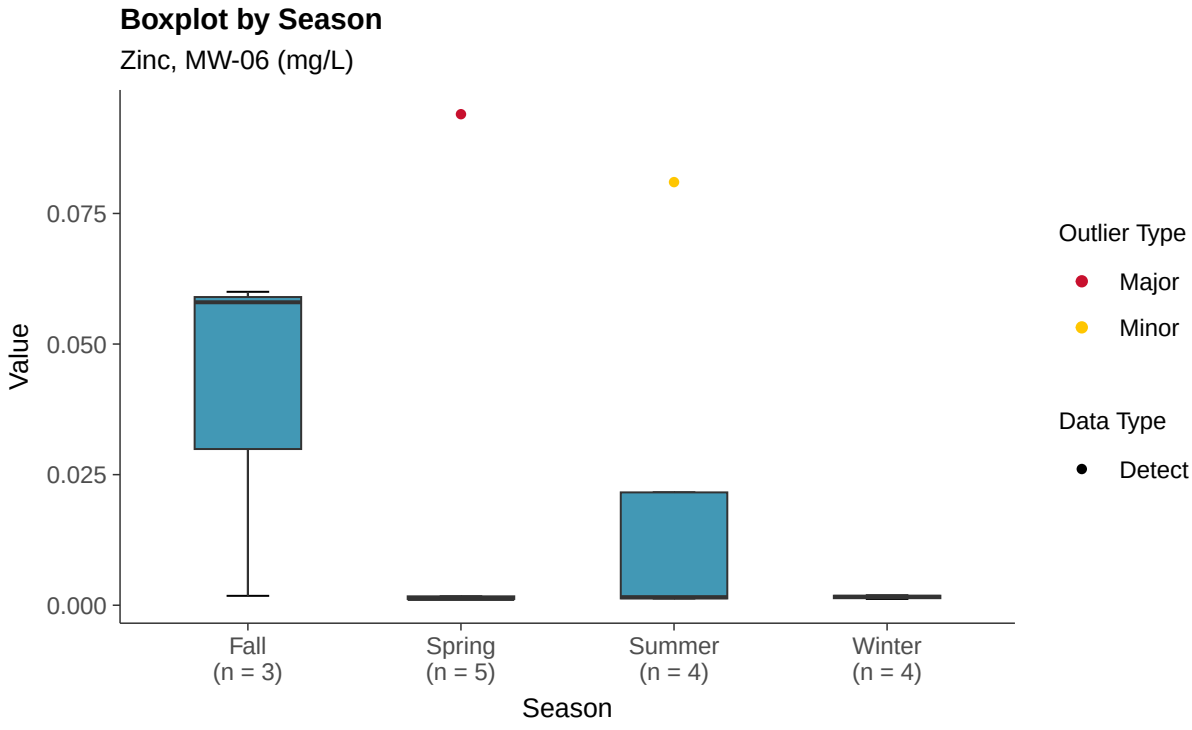
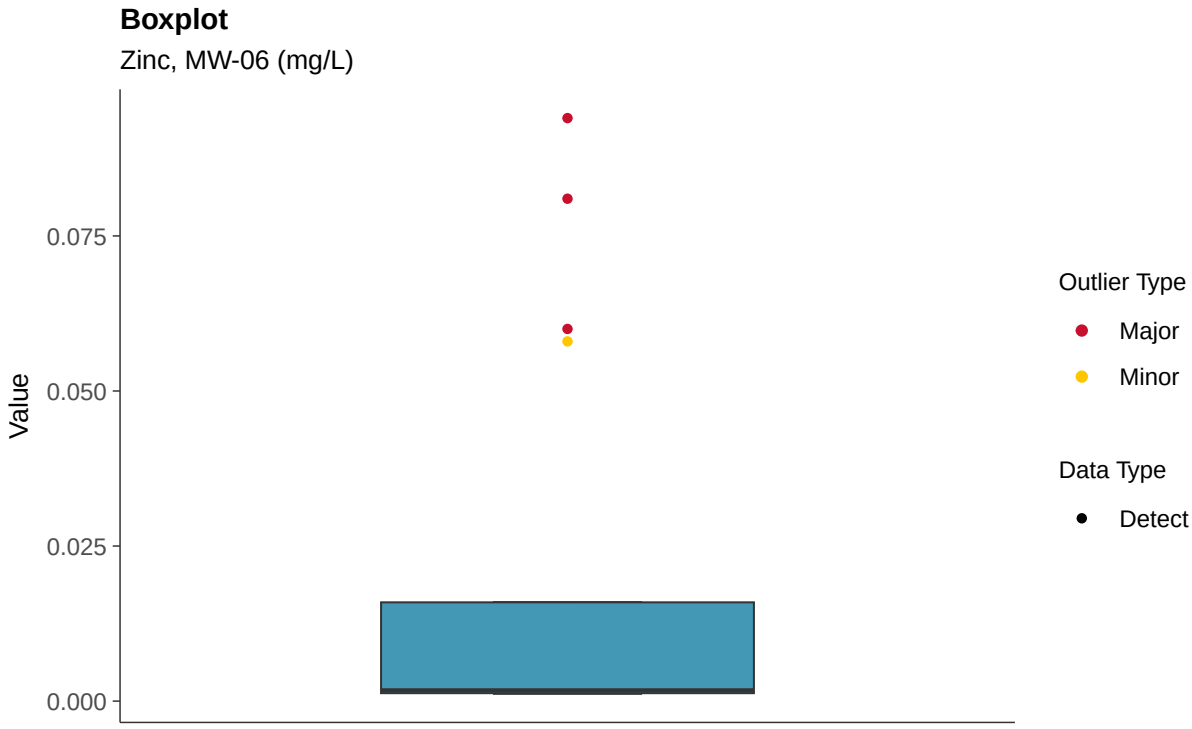
Vanadium, MW-06 (mg/L)



Vanadium, MW-06 (mg/L)







Zinc, MW-06 (mg/L)

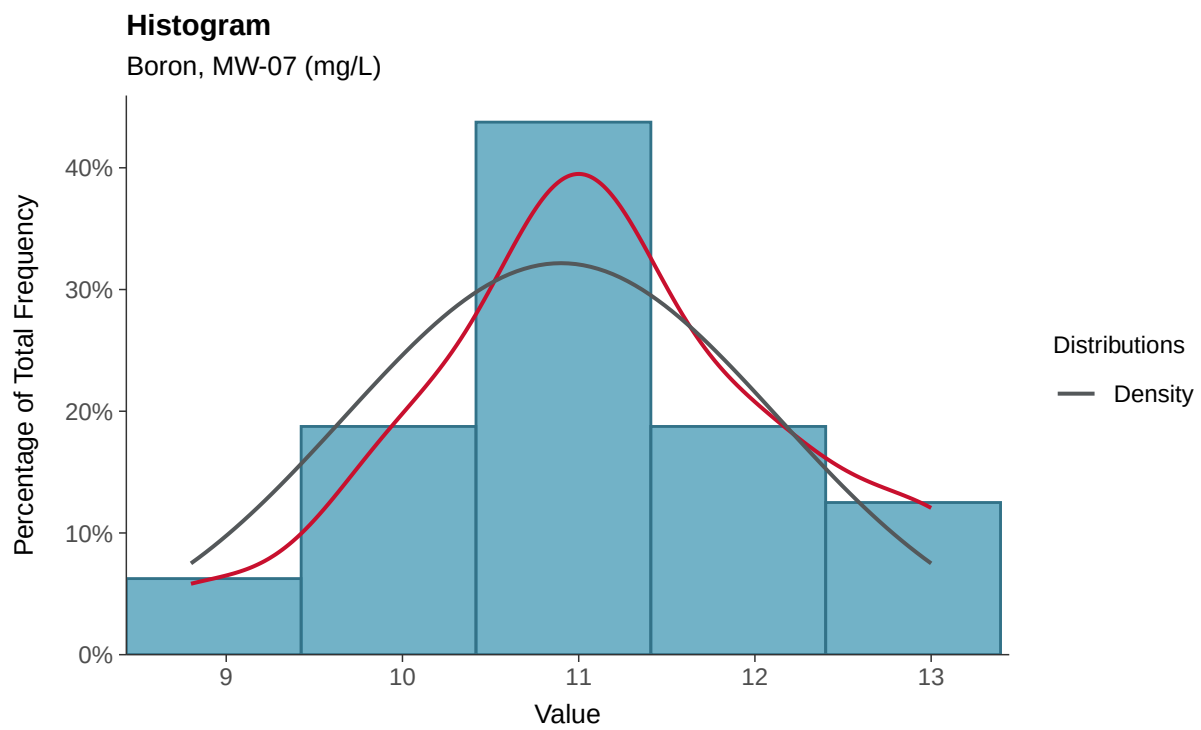
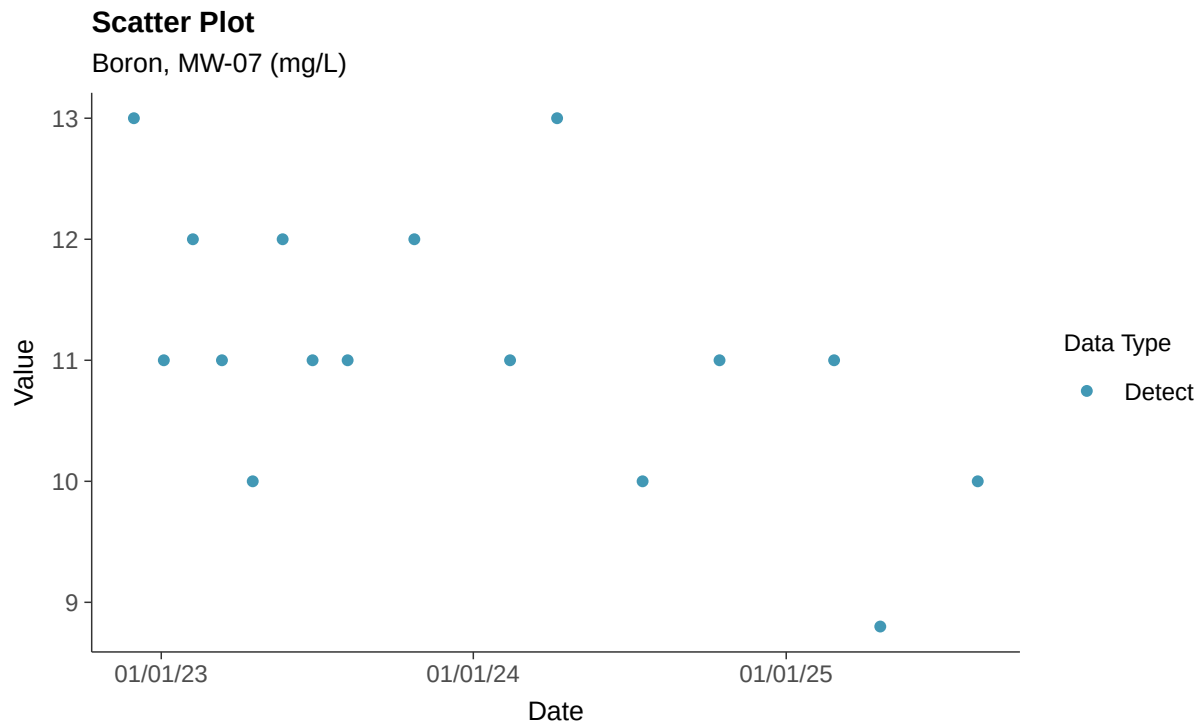


Zinc, MW-06 (mg/L)



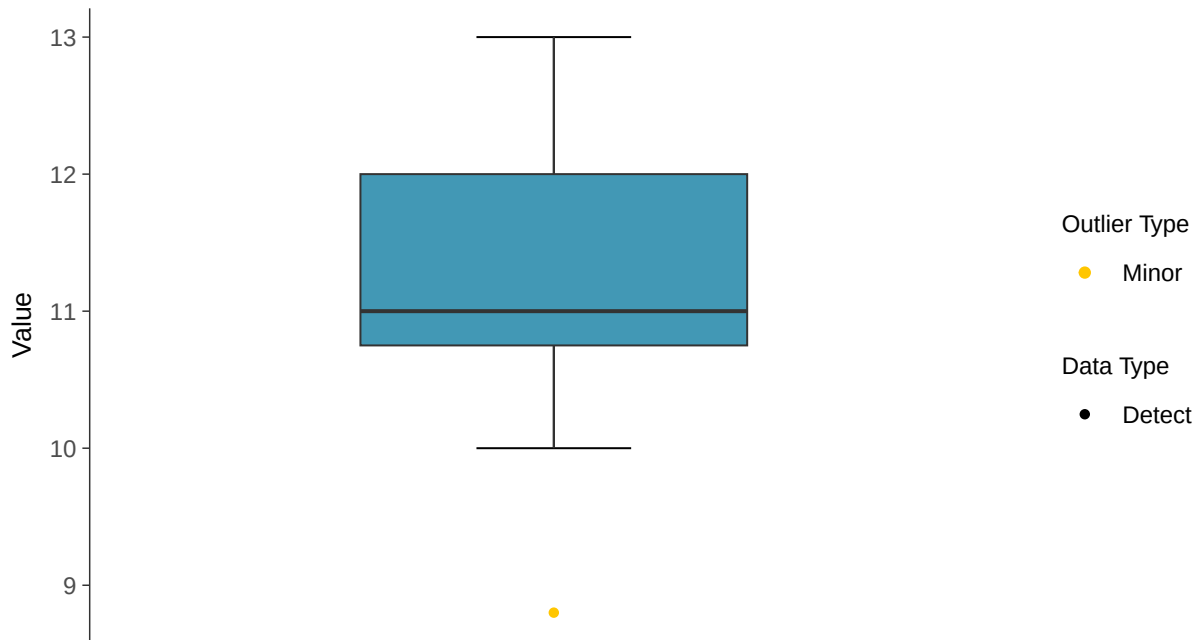
Appendix III: Boron, MW-07

ID: 17_1_3_105



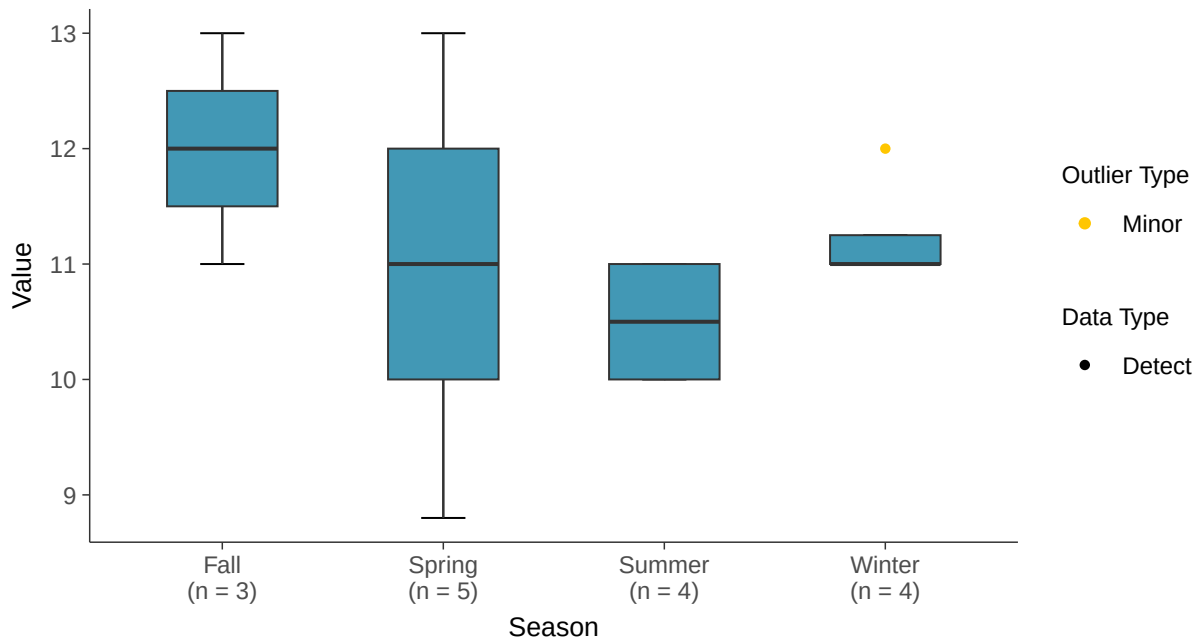
Boxplot

Boron, MW-07 (mg/L)



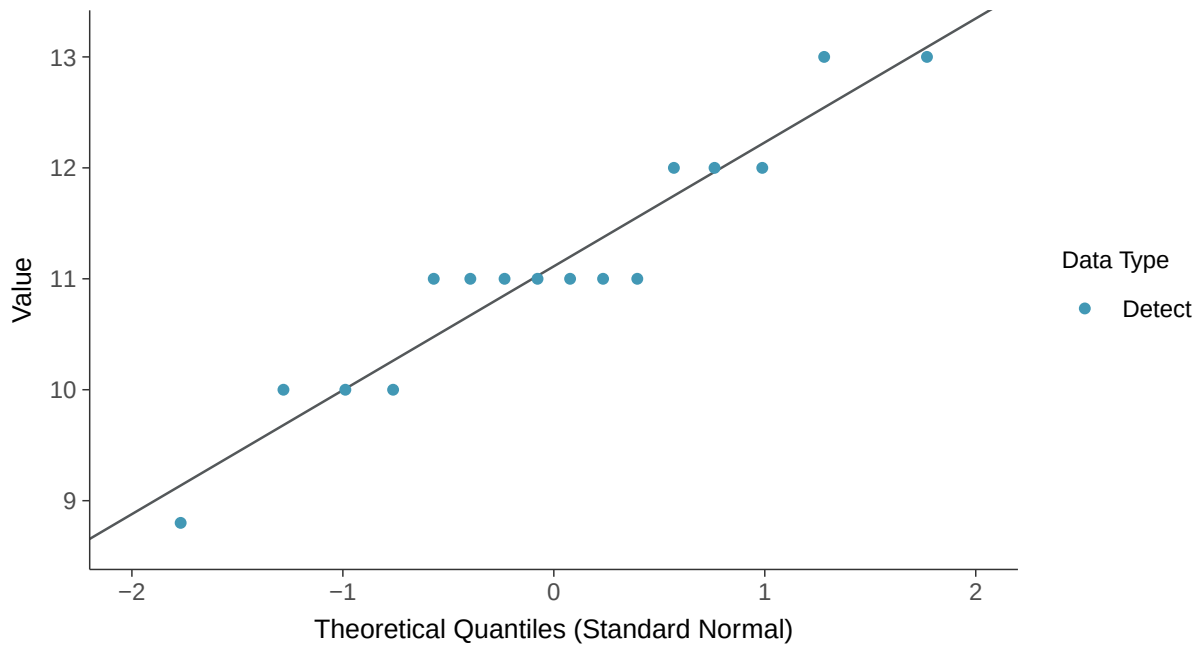
Boxplot by Season

Boron, MW-07 (mg/L)



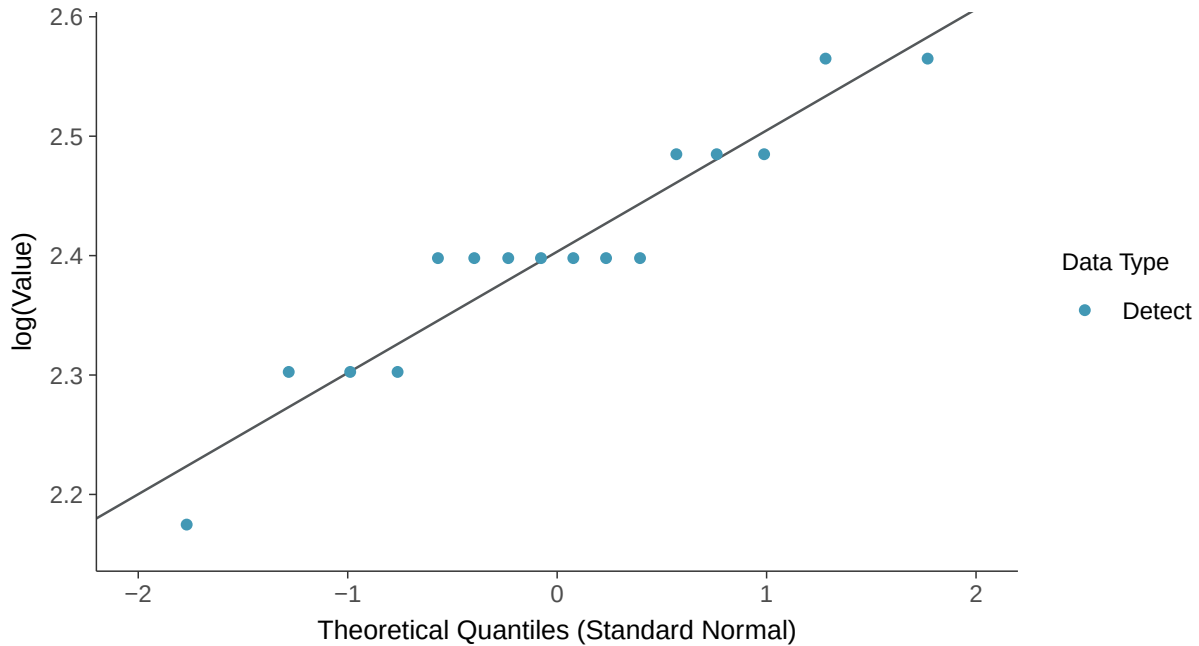
Normal Q-Q plot

Boron, MW-07 (mg/L)

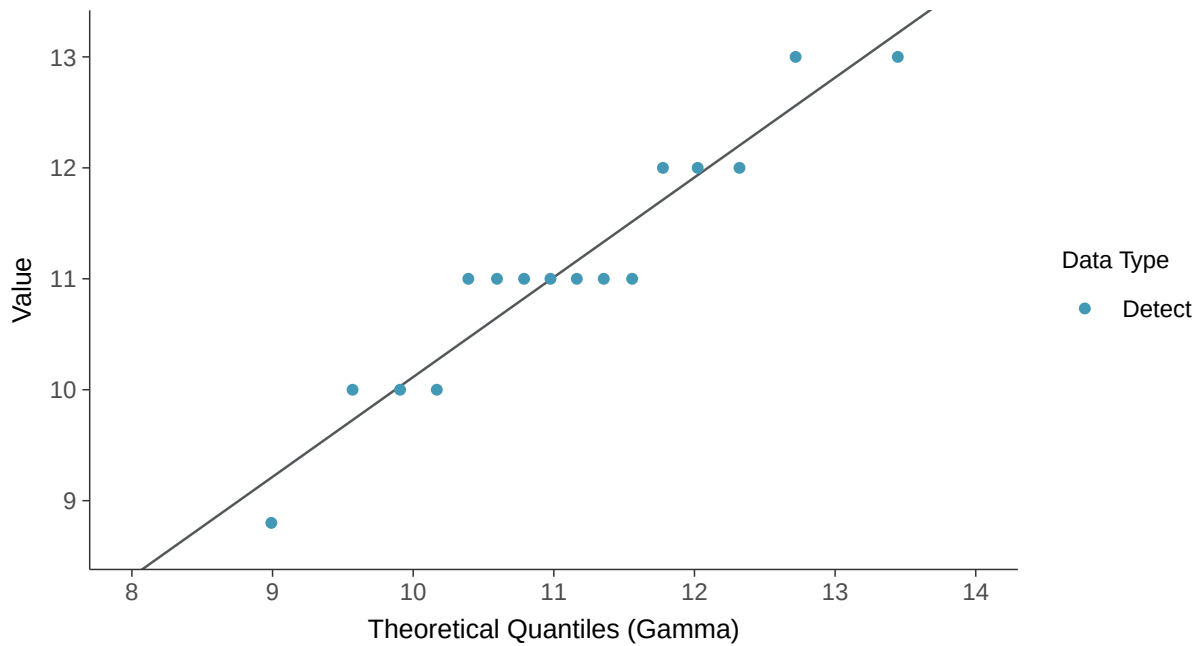


Lognormal Q-Q plot

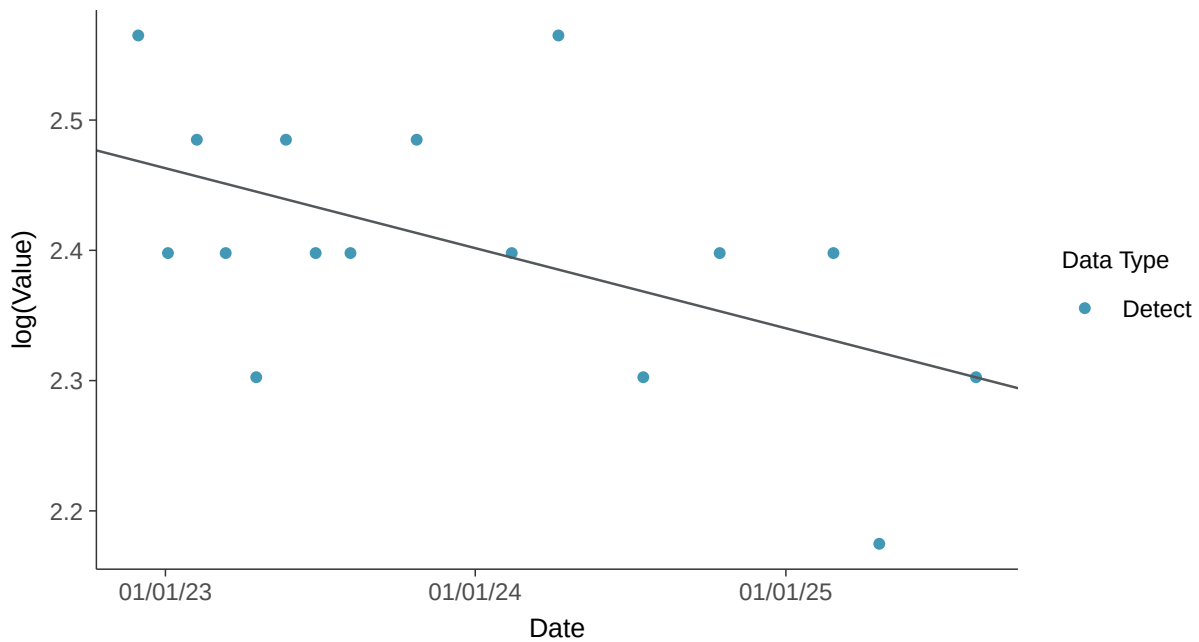
Boron, MW-07 (mg/L)



Gamma Q-Q plot
Boron, MW-07 (mg/L)

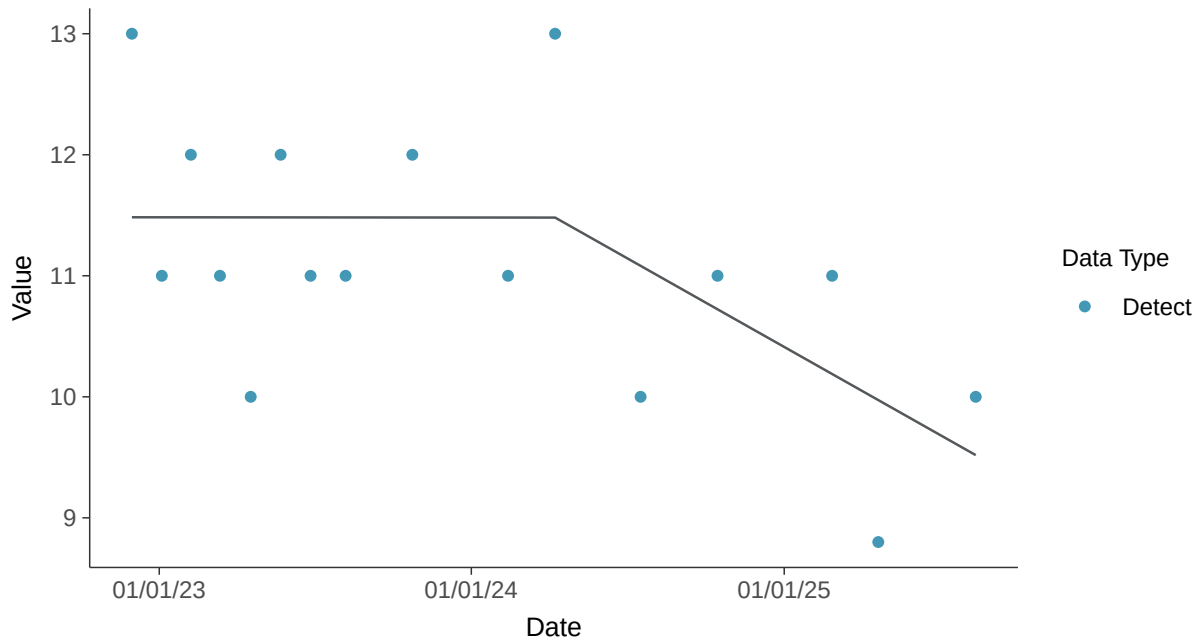


Trend Regression: Lognormal MLE
Boron, MW-07 (mg/L)



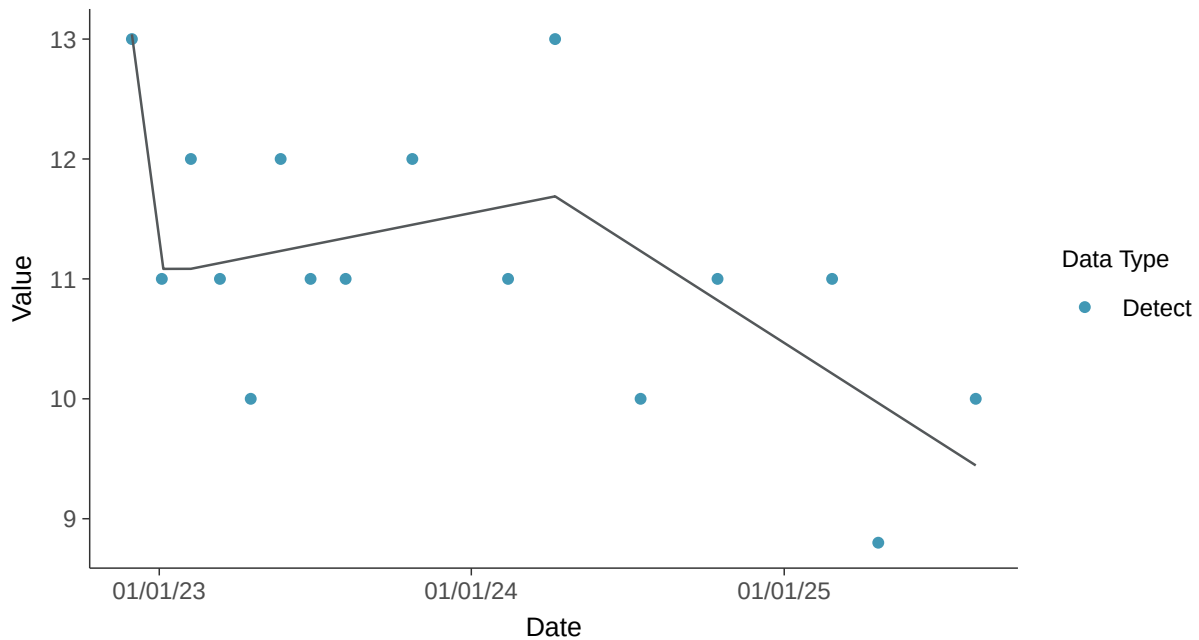
Trend Regression: Piecewise Linear-Linear

Boron, MW-07 (mg/L)



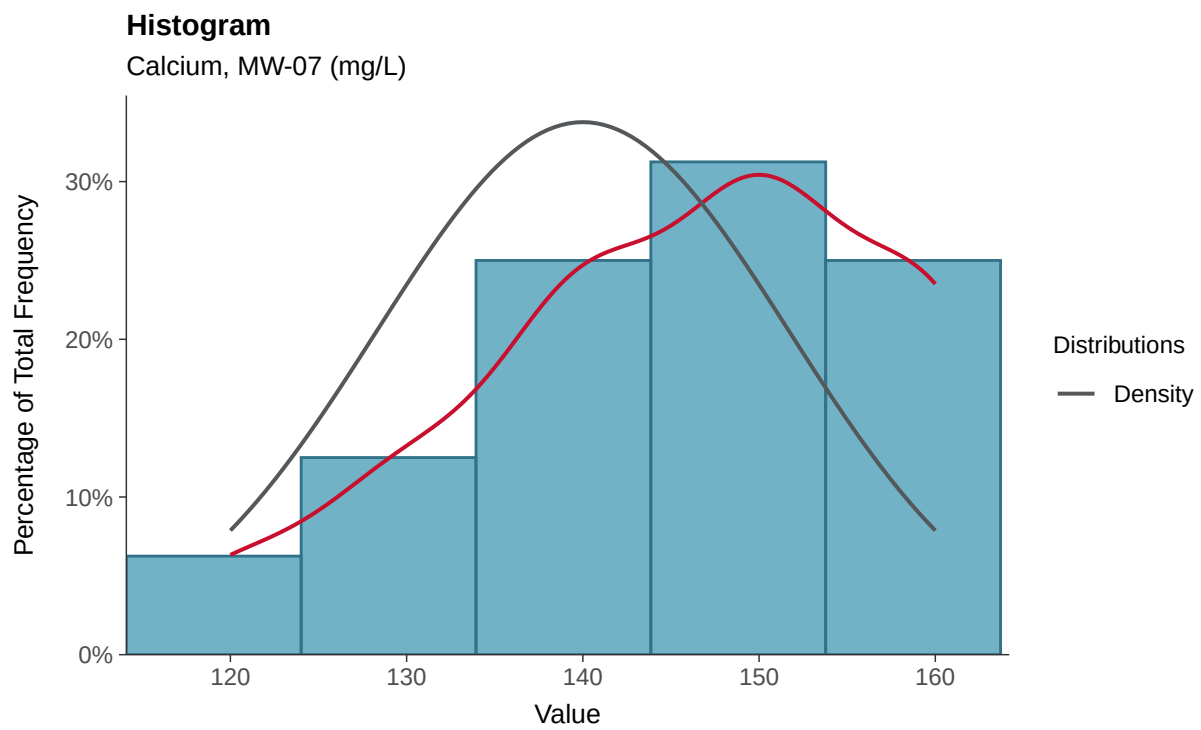
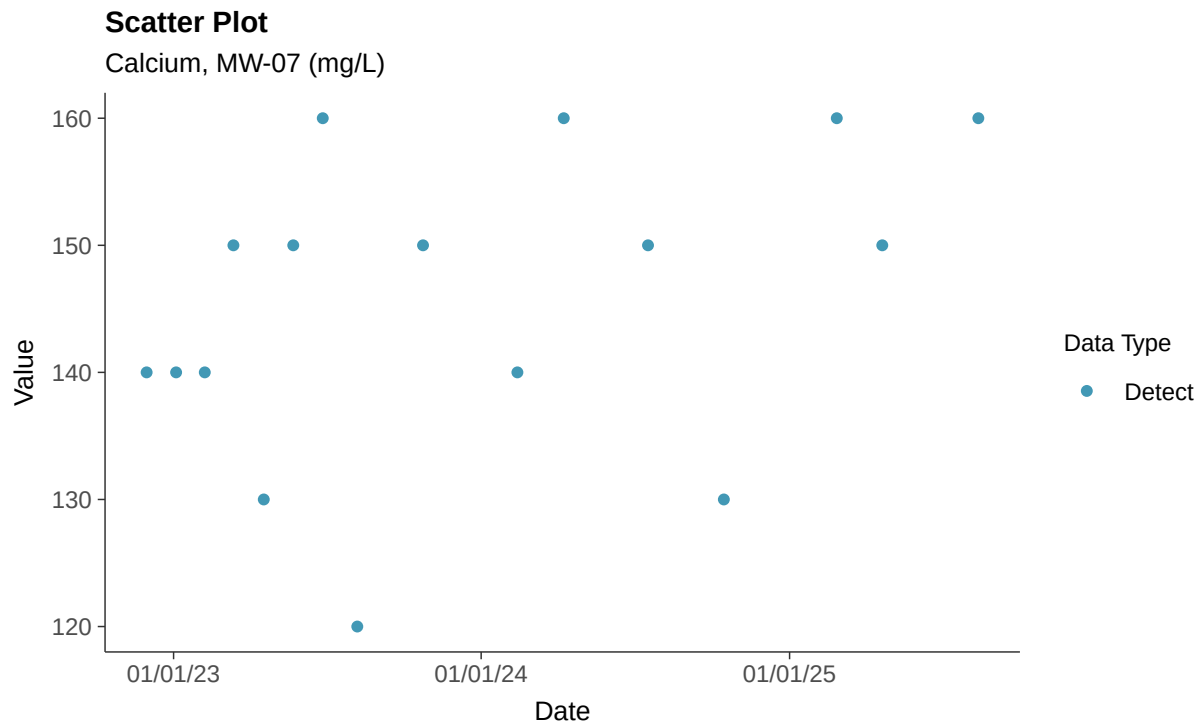
Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-07 (mg/L)



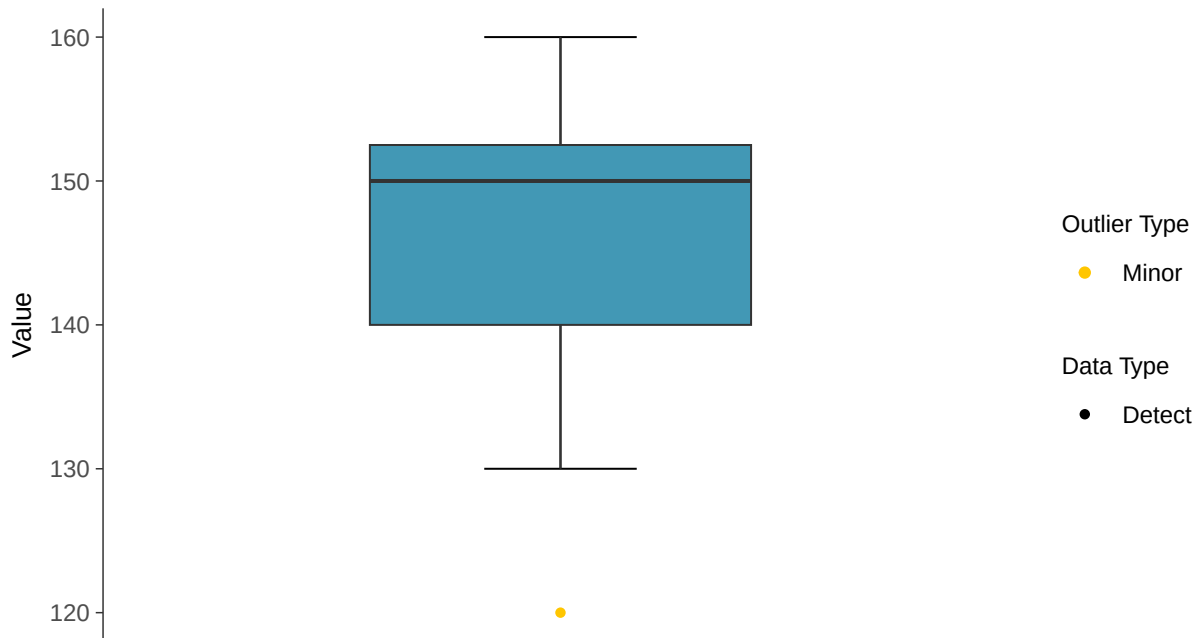
Appendix III: Calcium, MW-07

ID: 17_1_3_107



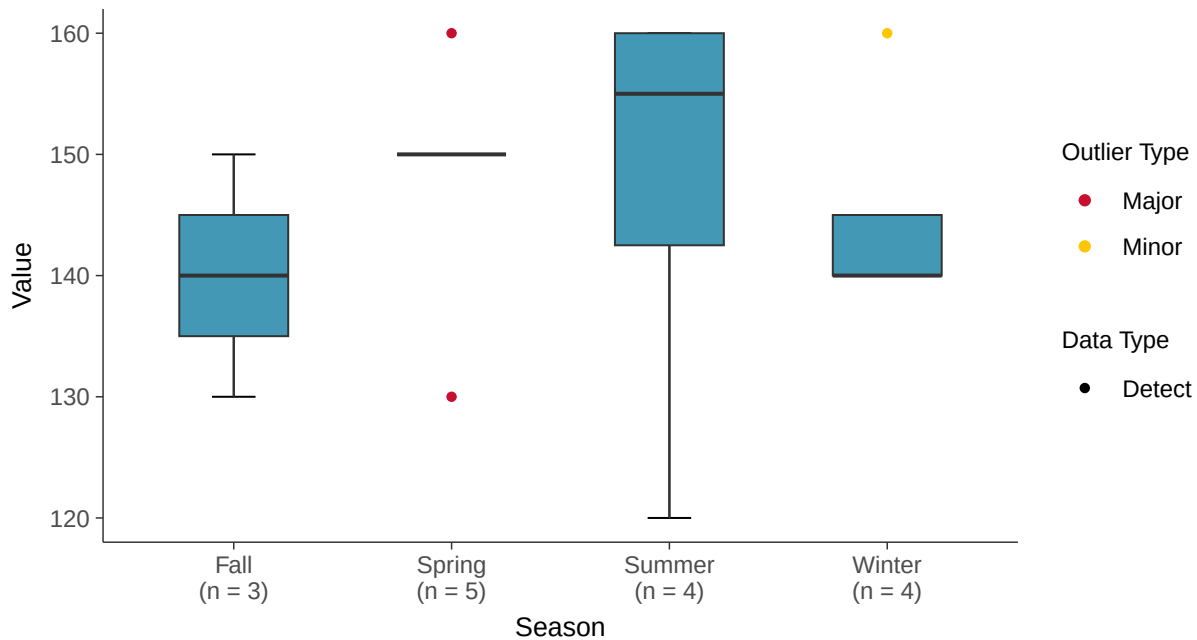
Boxplot

Calcium, MW-07 (mg/L)



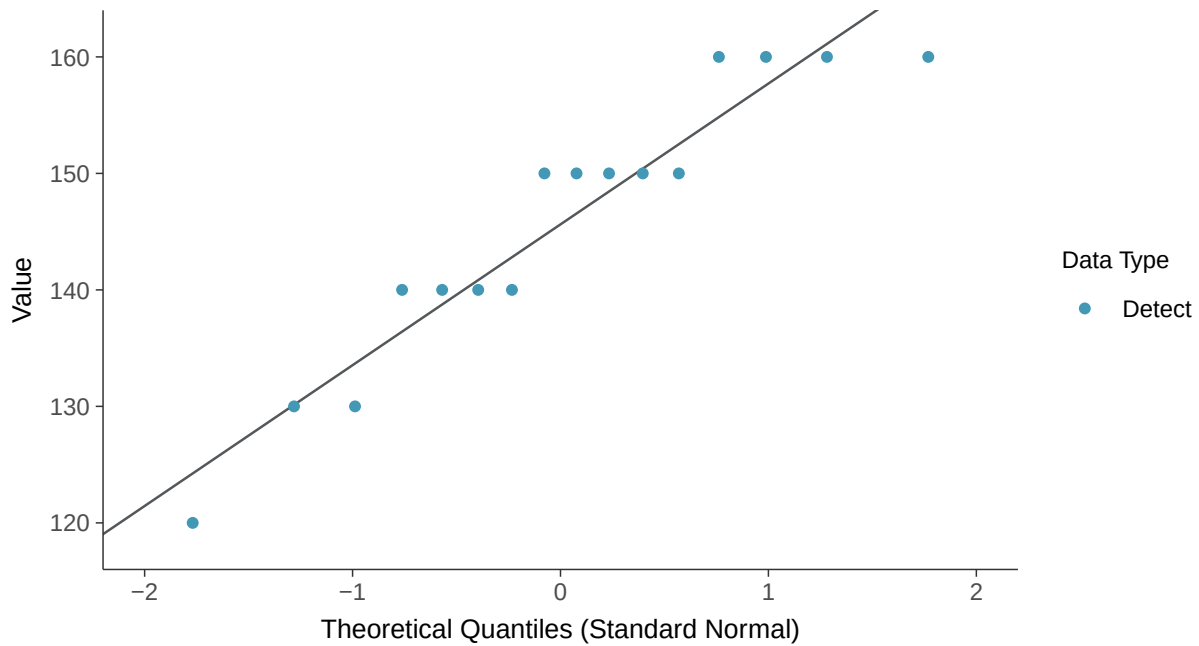
Boxplot by Season

Calcium, MW-07 (mg/L)



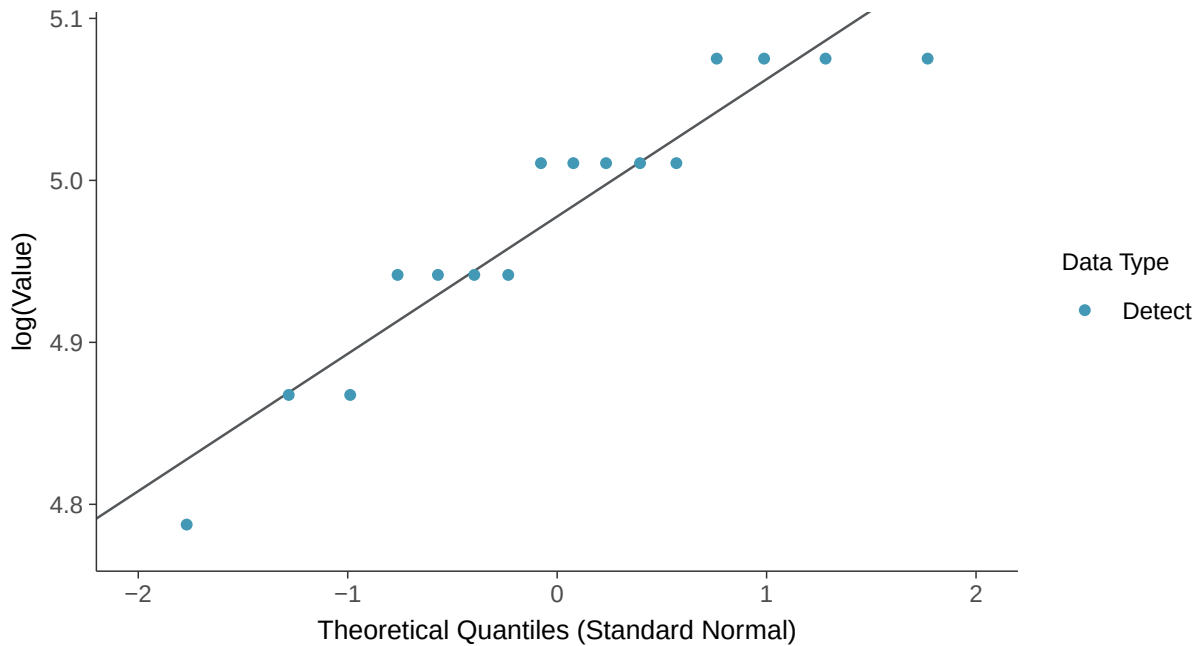
Normal Q-Q plot

Calcium, MW-07 (mg/L)



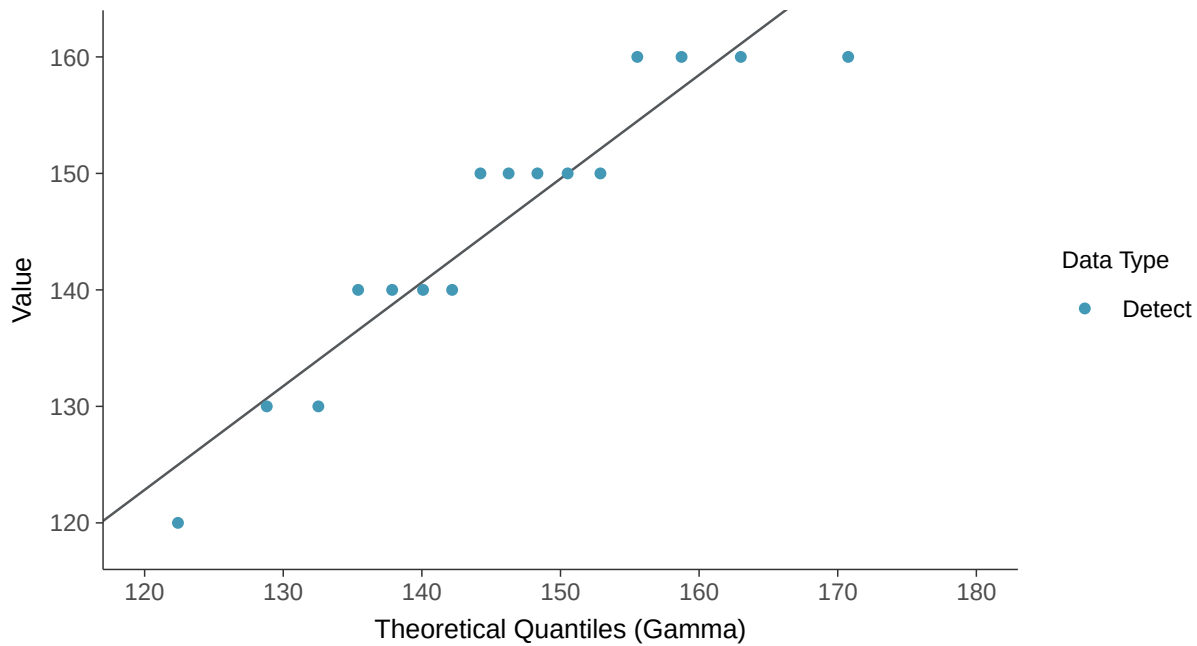
Lognormal Q-Q plot

Calcium, MW-07 (mg/L)



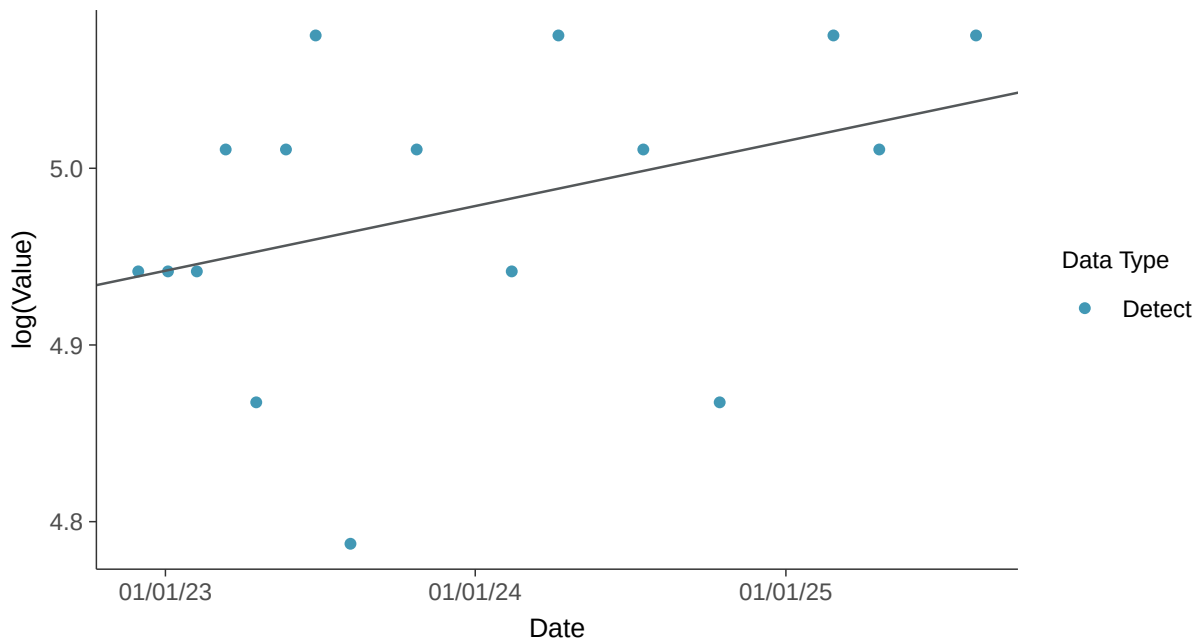
Gamma Q-Q plot

Calcium, MW-07 (mg/L)



Trend Regression: Lognormal MLE

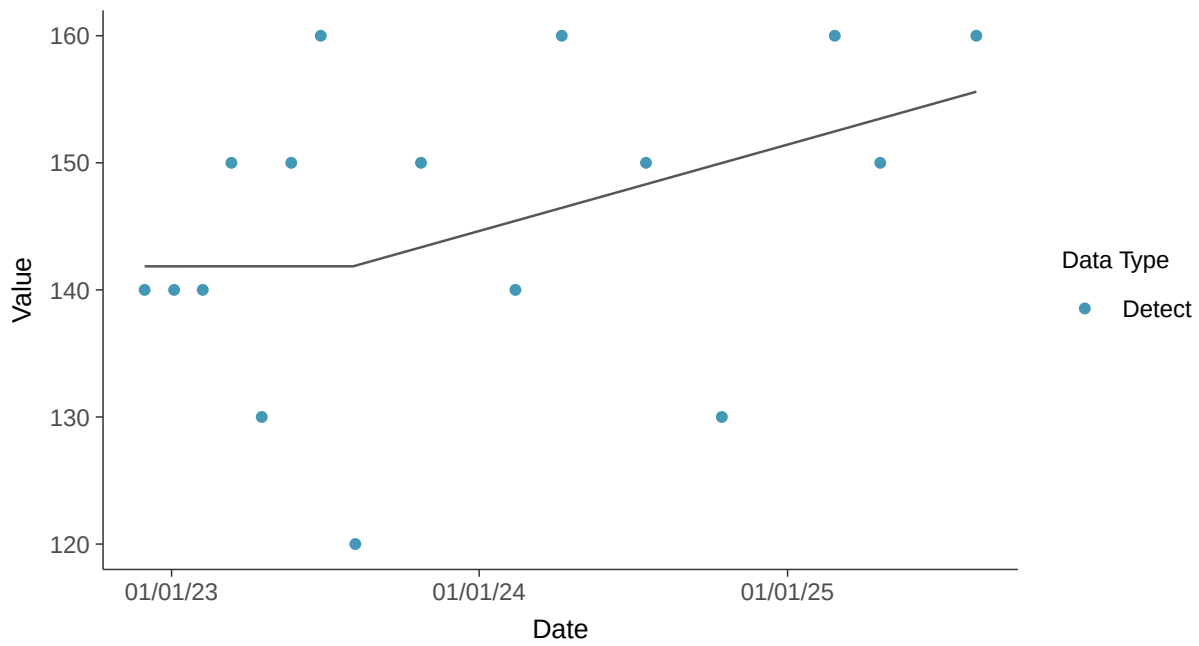
Calcium, MW-07 (mg/L)





Trend Regression: Piecewise Linear-Linear

Calcium, MW-07 (mg/L)

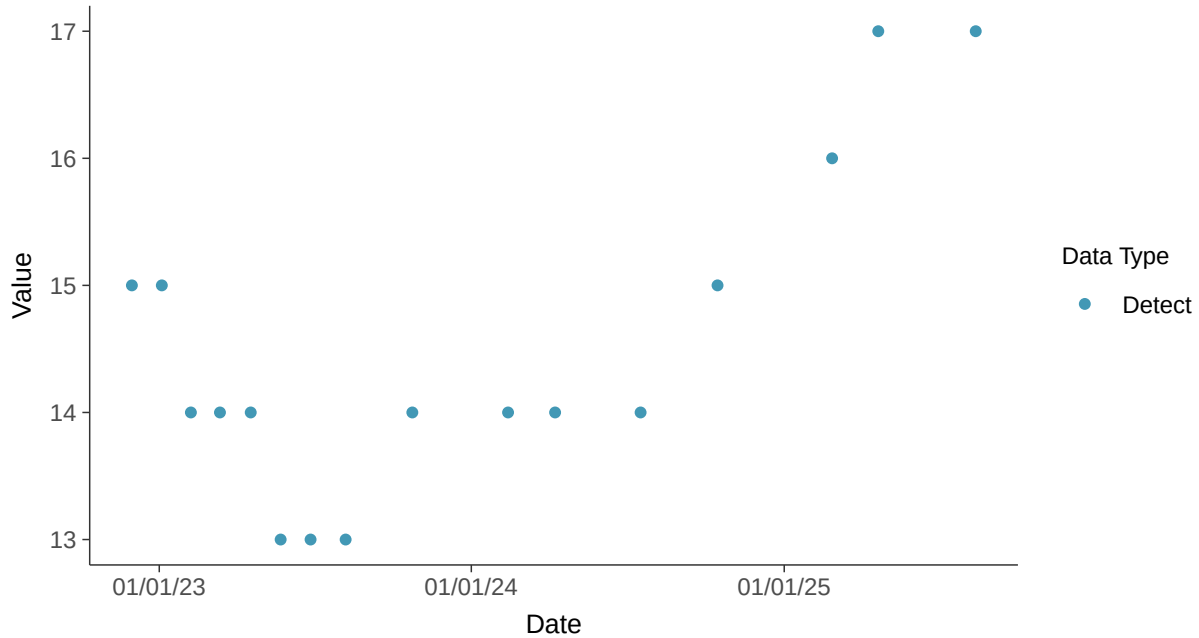


Appendix III: Chloride (as Cl), MW-07

ID: 17_1_3_108

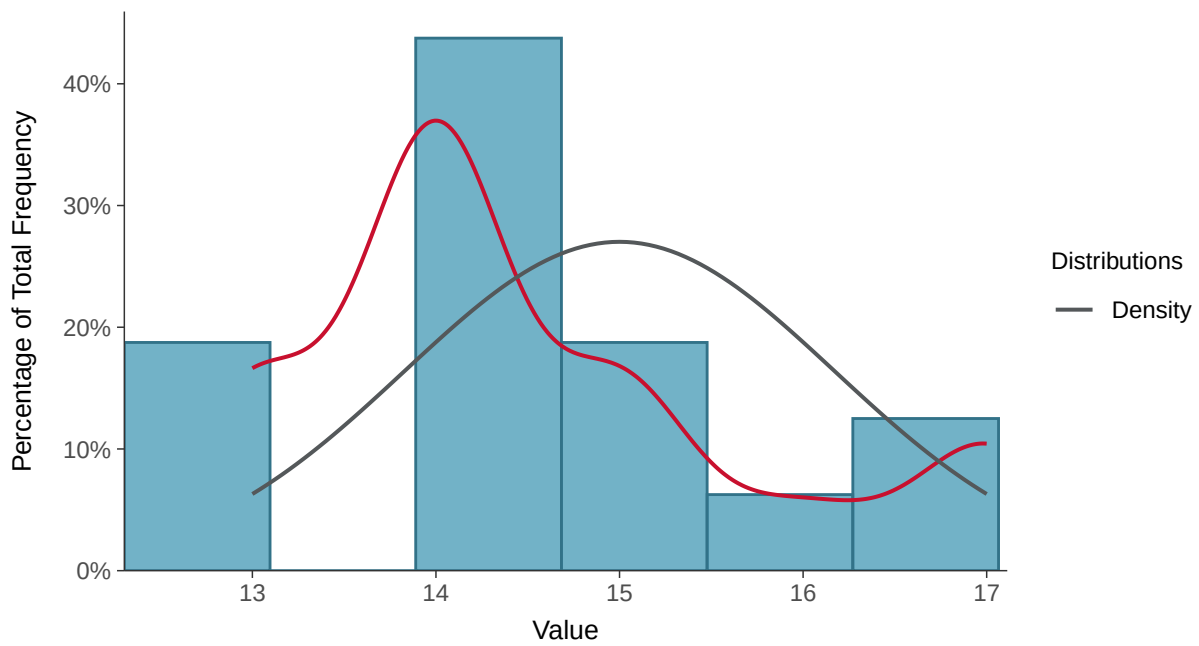
Scatter Plot

Chloride (as Cl), MW-07 (mg/L)



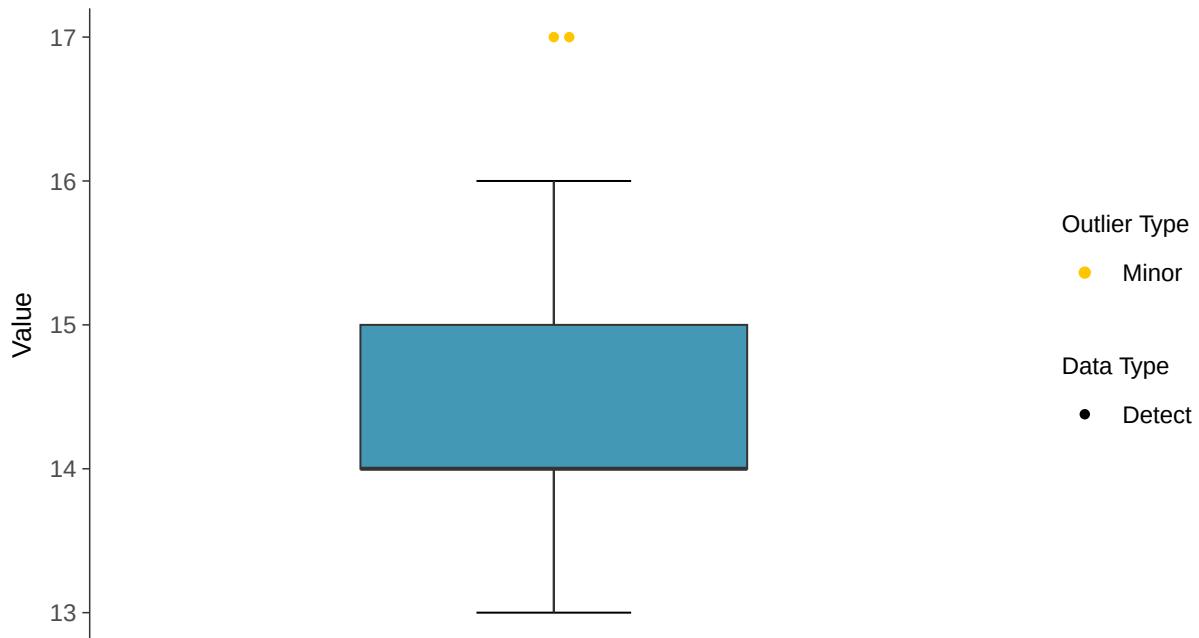
Histogram

Chloride (as Cl), MW-07 (mg/L)



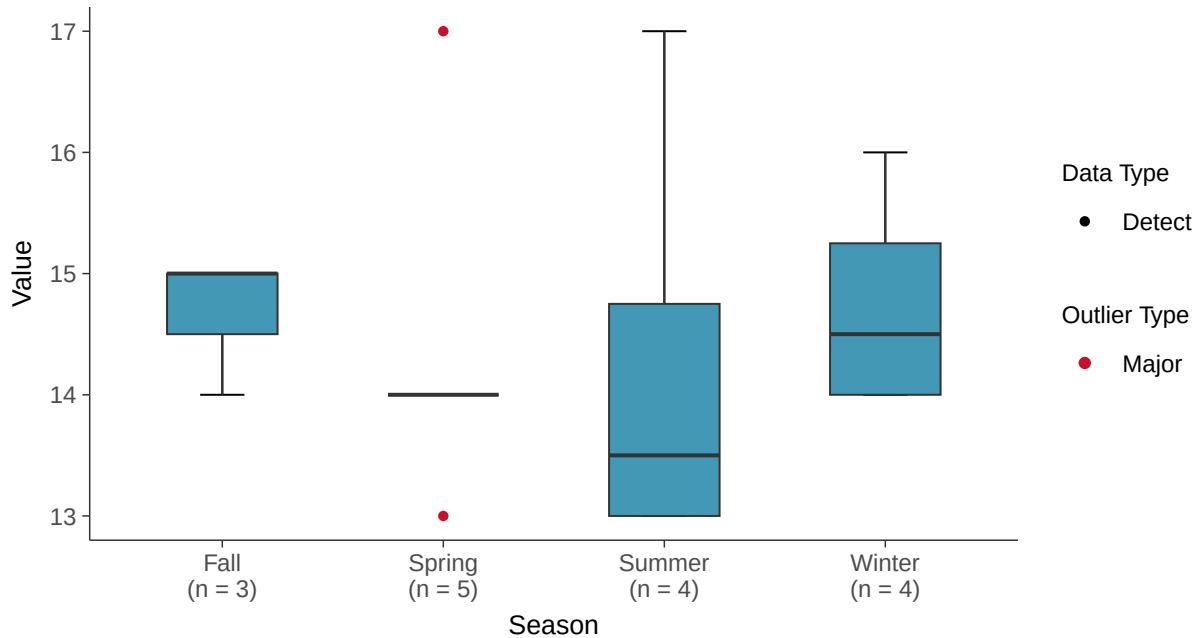
Boxplot

Chloride (as Cl), MW-07 (mg/L)



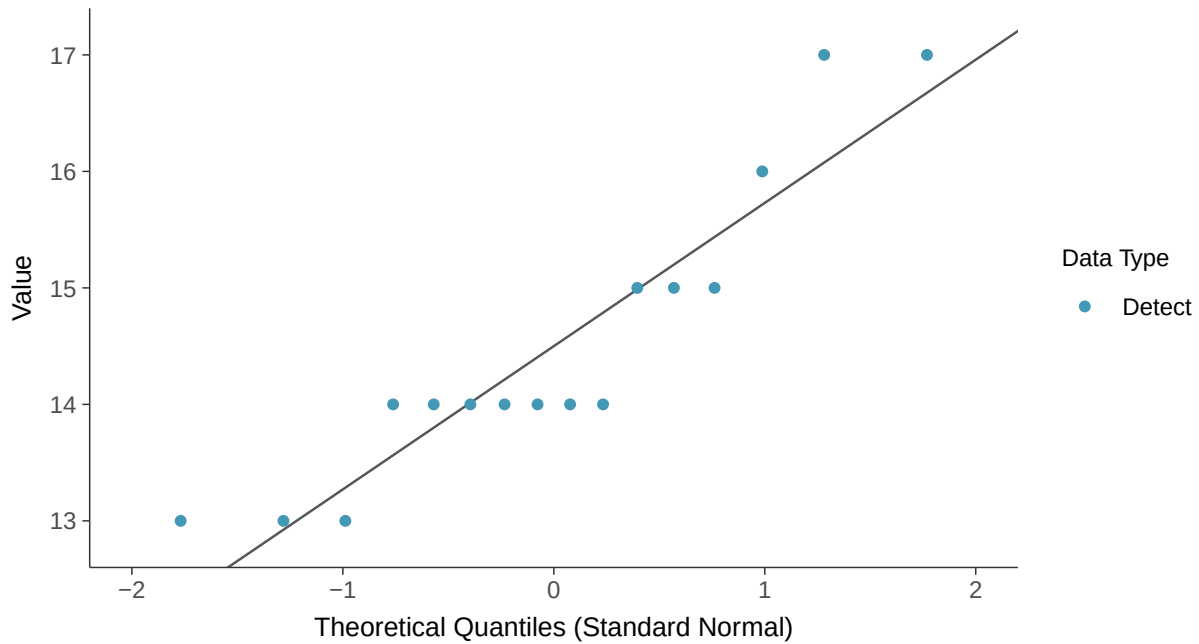
Boxplot by Season

Chloride (as Cl), MW-07 (mg/L)



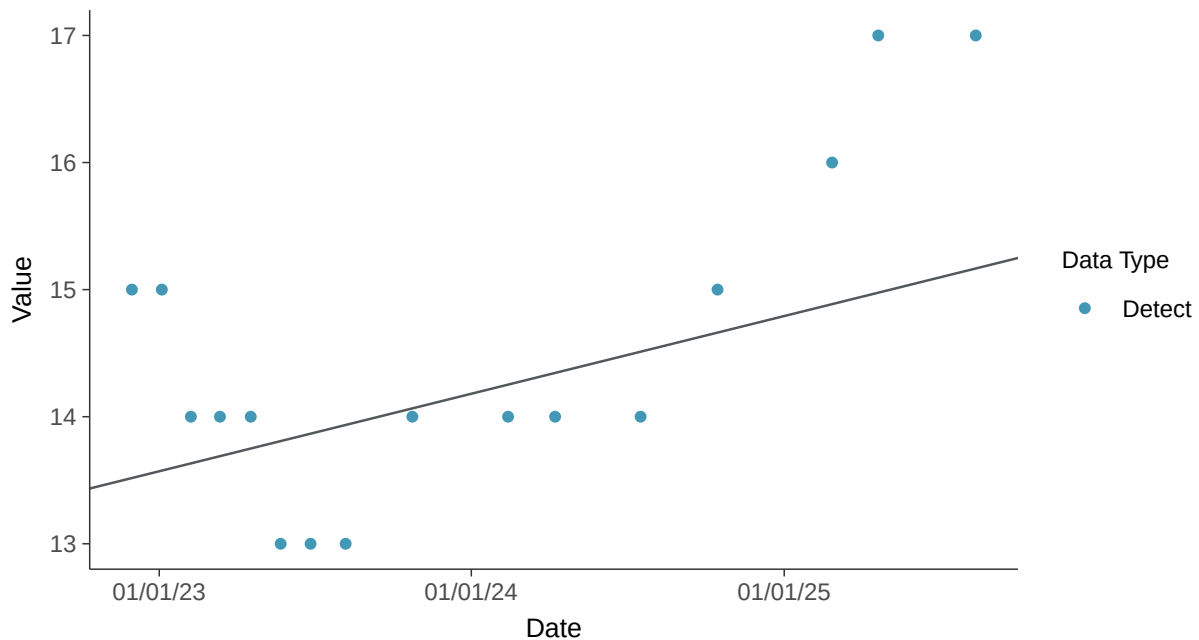
Normal Q-Q plot

Chloride (as Cl), MW-07 (mg/L)



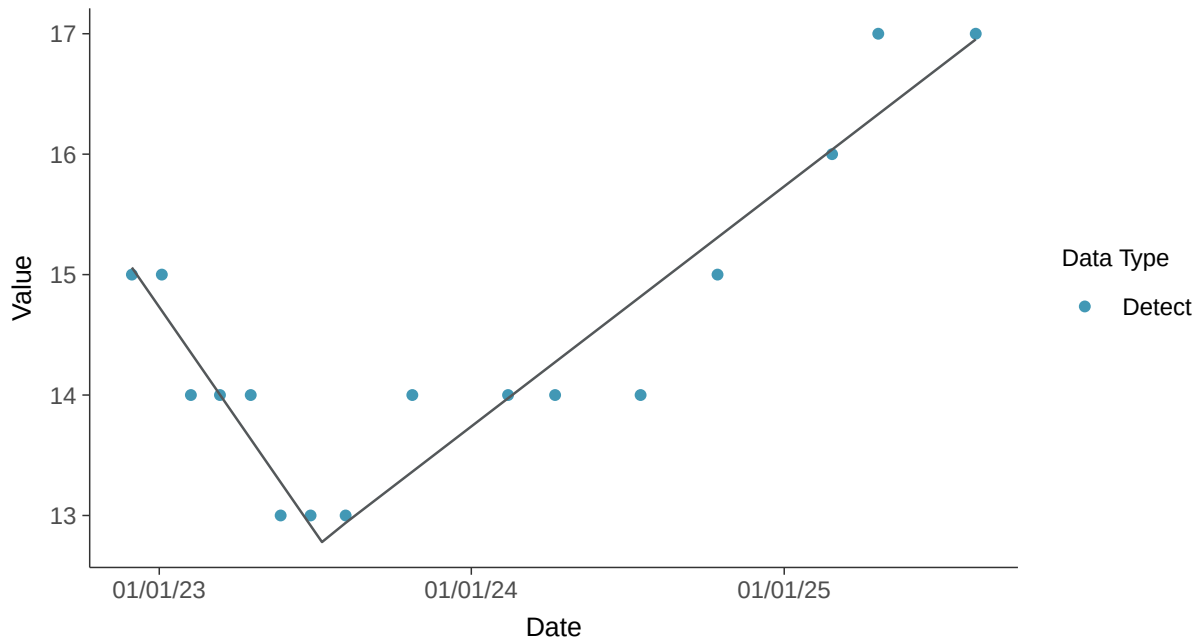
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-07 (mg/L)



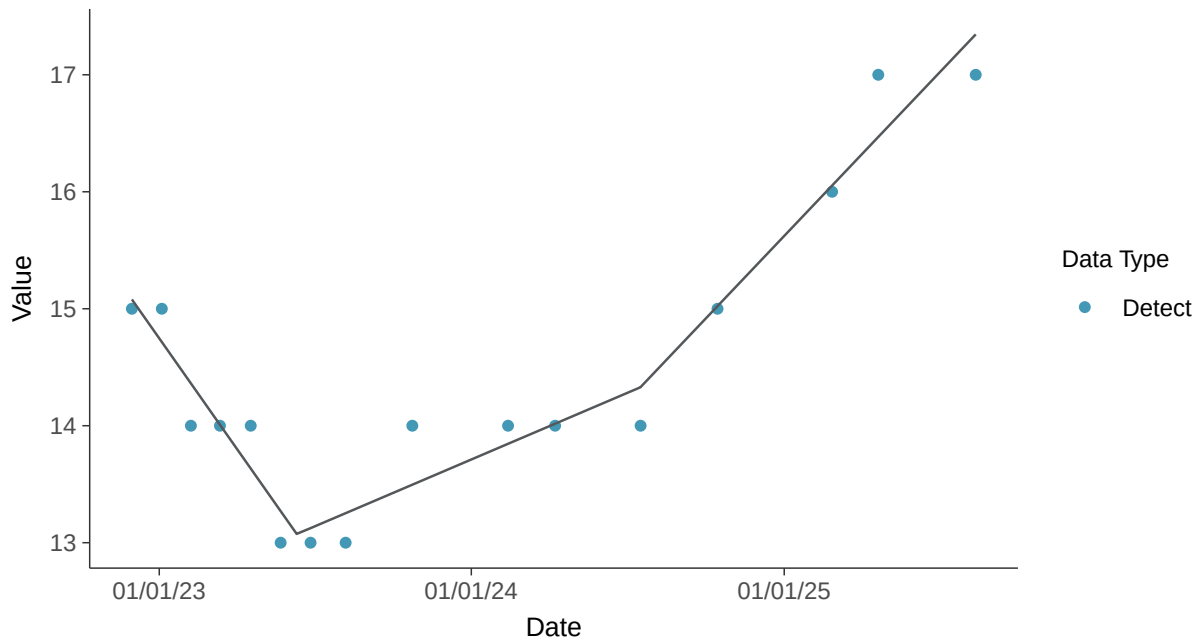
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-07 (mg/L)



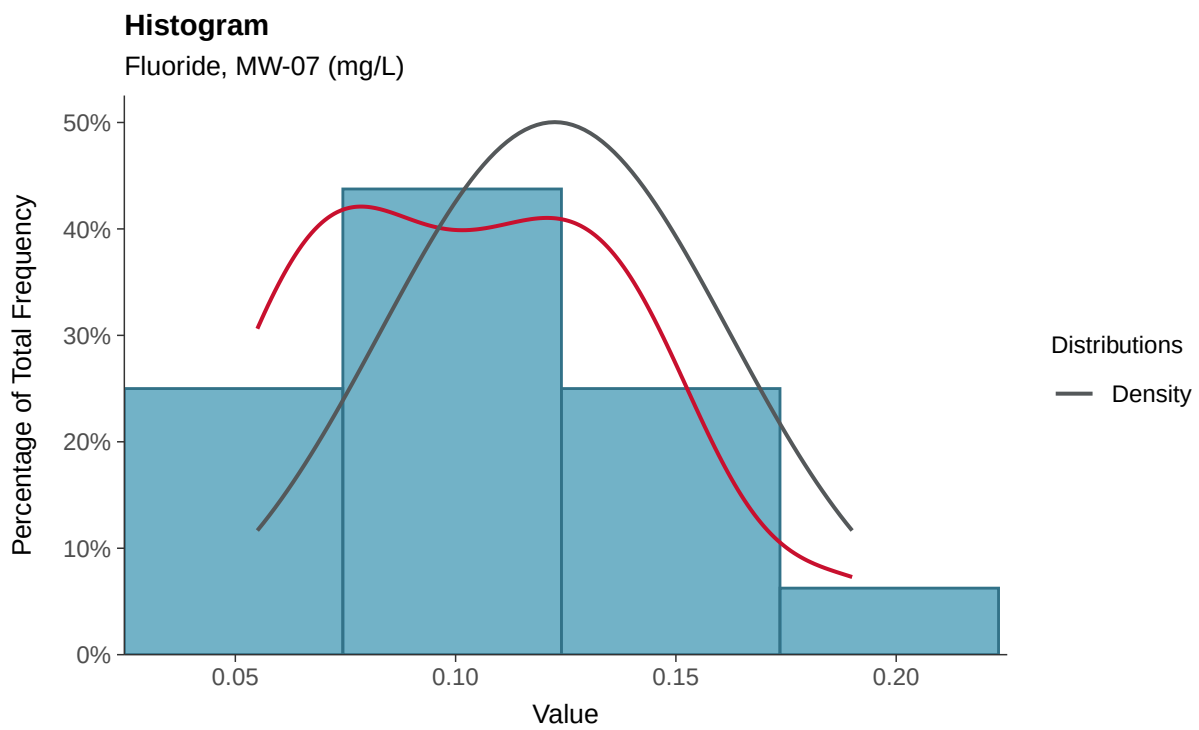
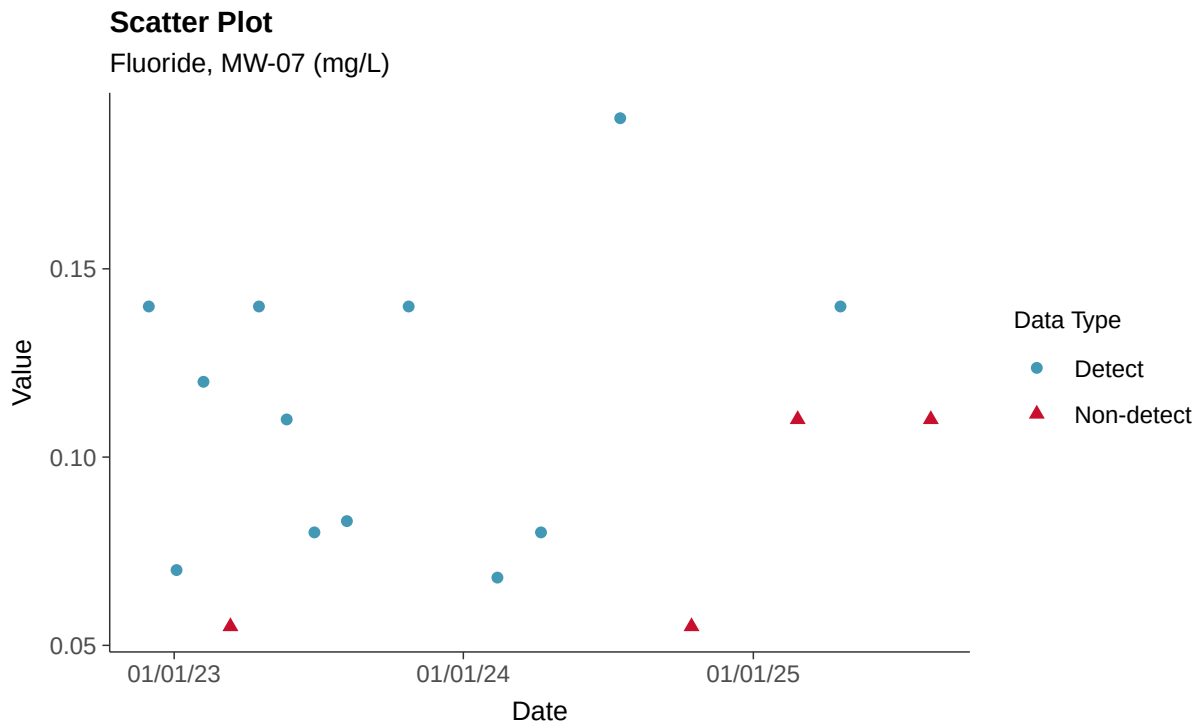
Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-07 (mg/L)



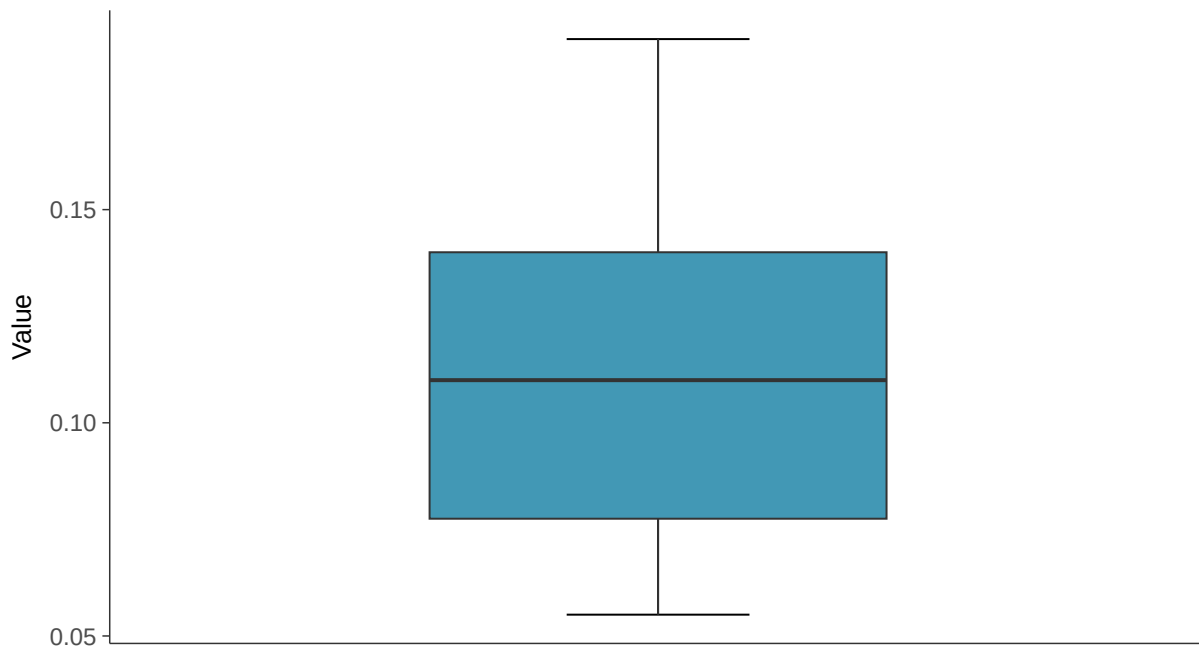
Appendix III: Fluoride, MW-07

ID: 17_1_3_112



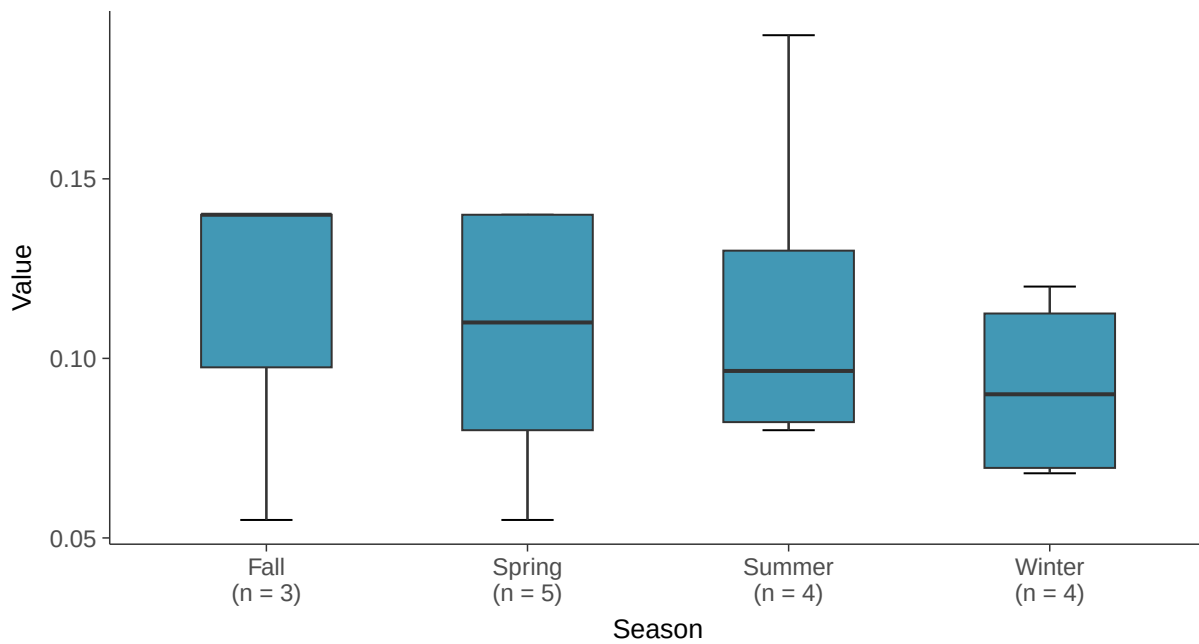
Boxplot

Fluoride, MW-07 (mg/L)



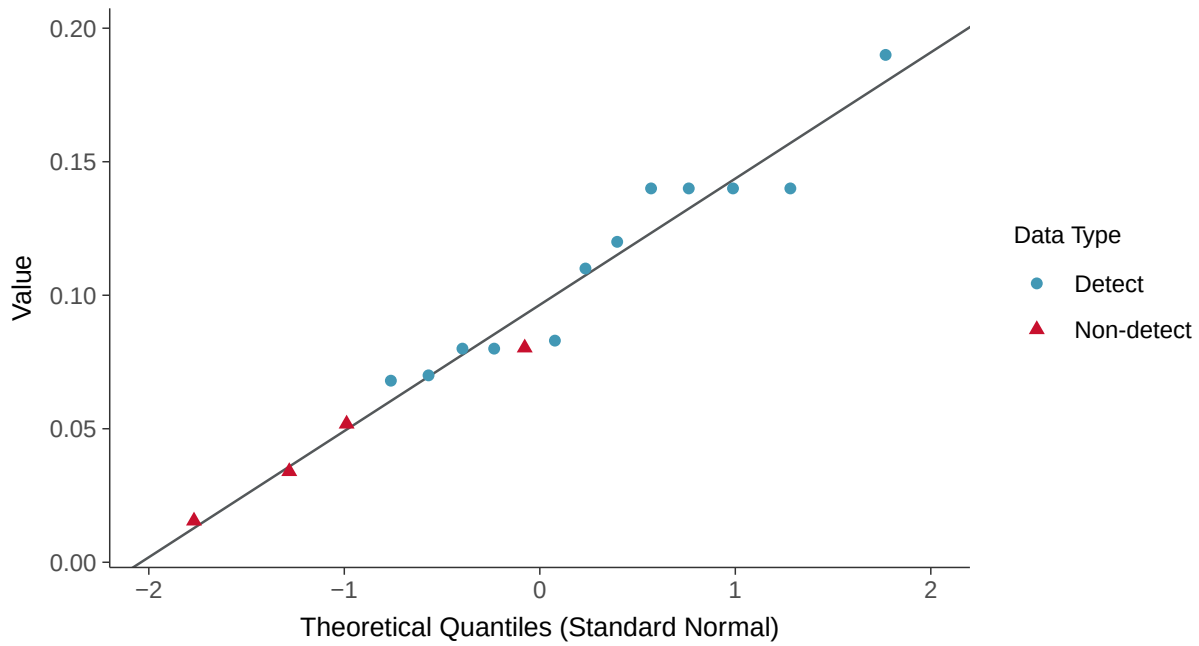
Boxplot by Season

Fluoride, MW-07 (mg/L)



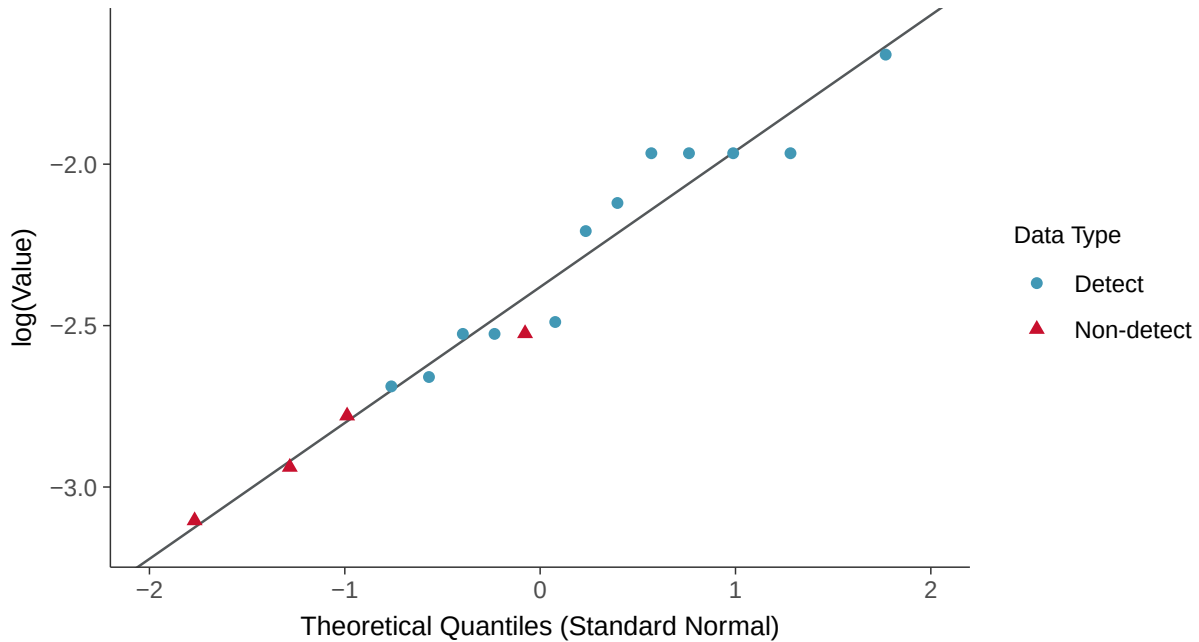
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-07 (mg/L)

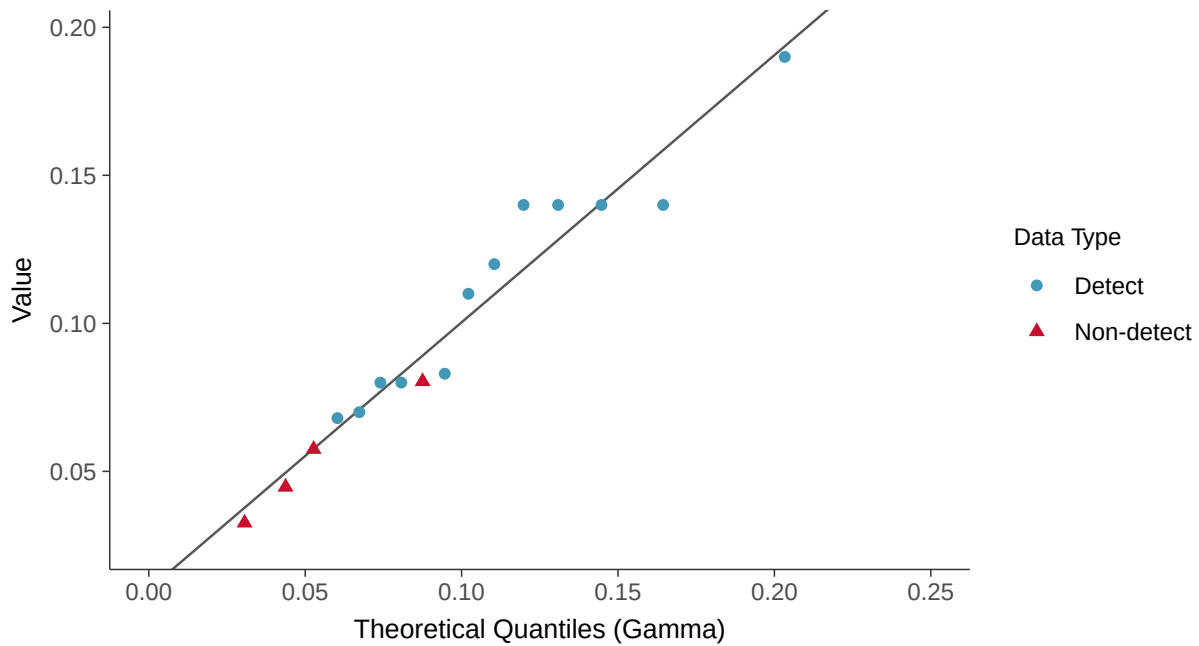


Lognormal Q-Q plot using ROS Imputed Estimates

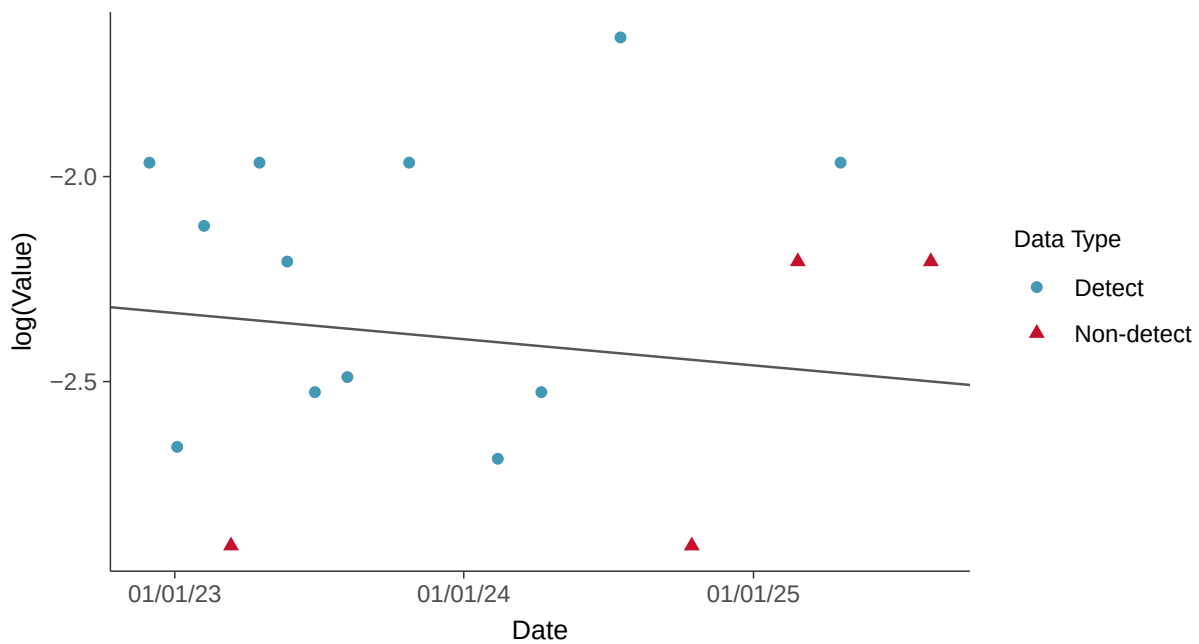
Fluoride, MW-07 (mg/L)



Fluoride, MW-07 (mg/L)



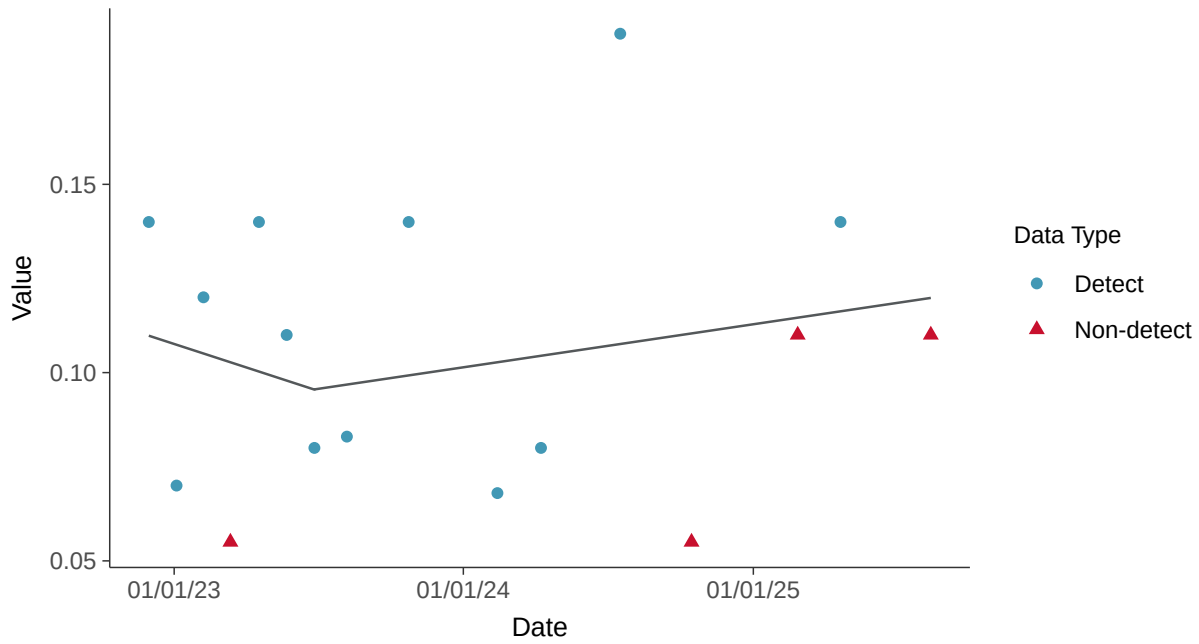
Fluoride, MW-07 (mg/L)





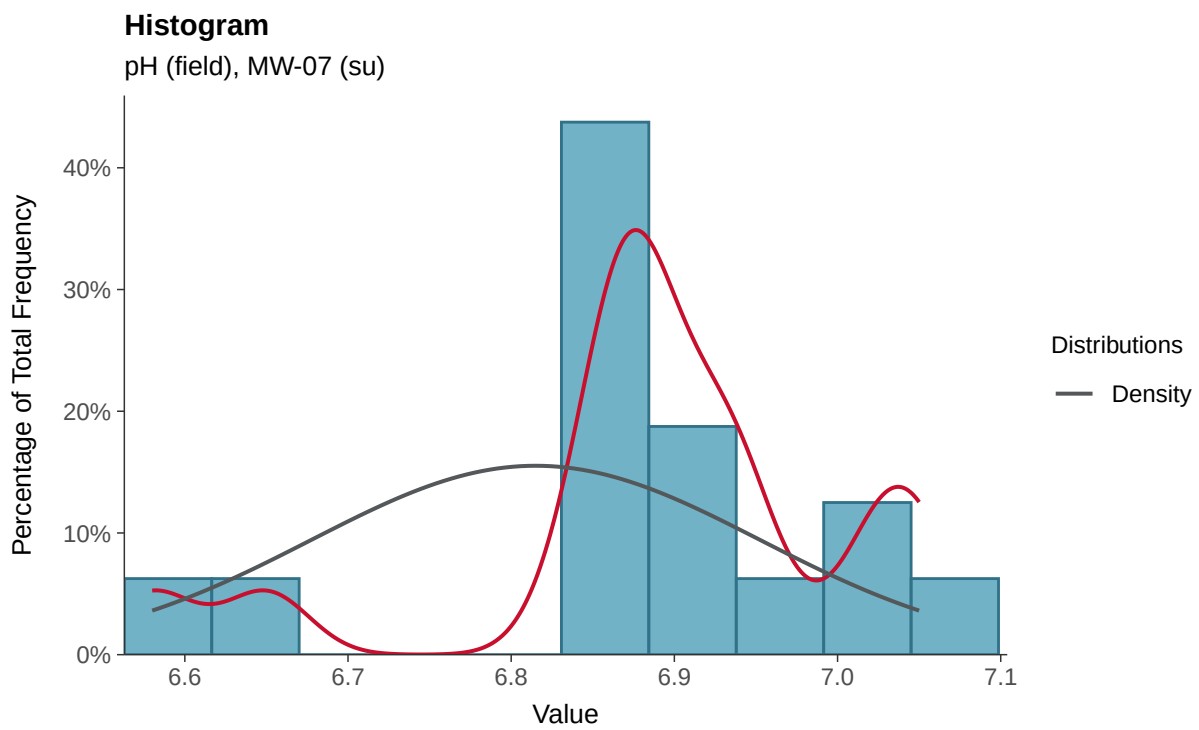
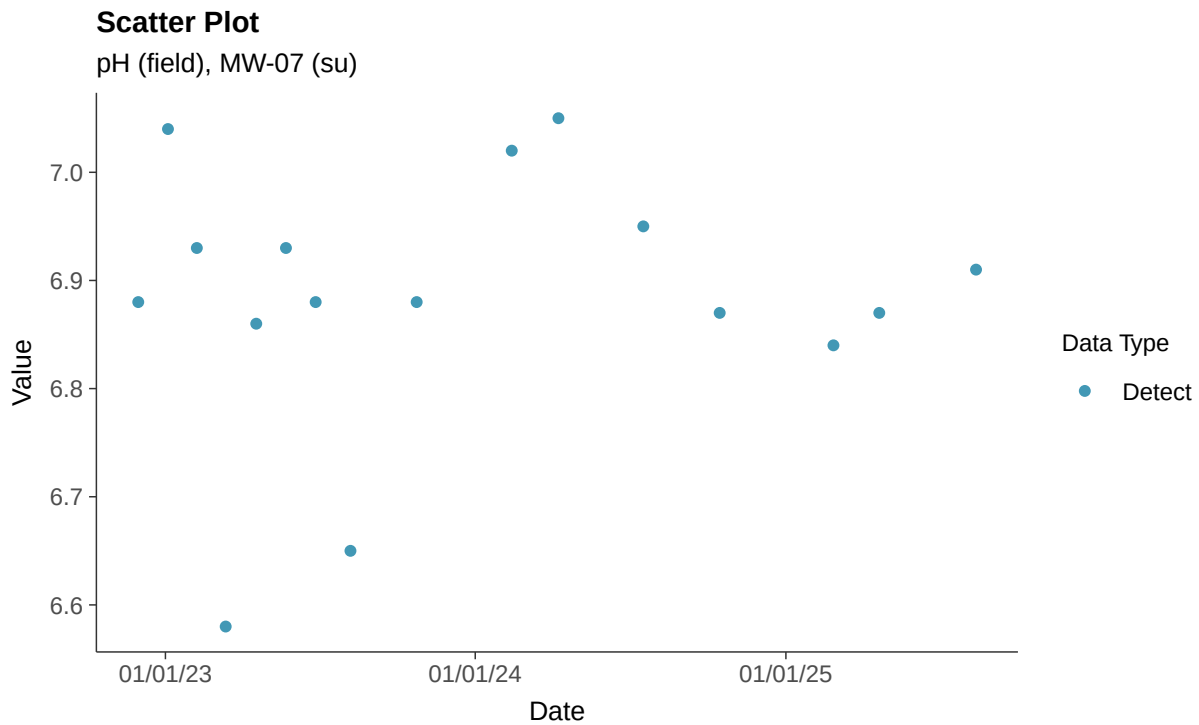
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-07 (mg/L)



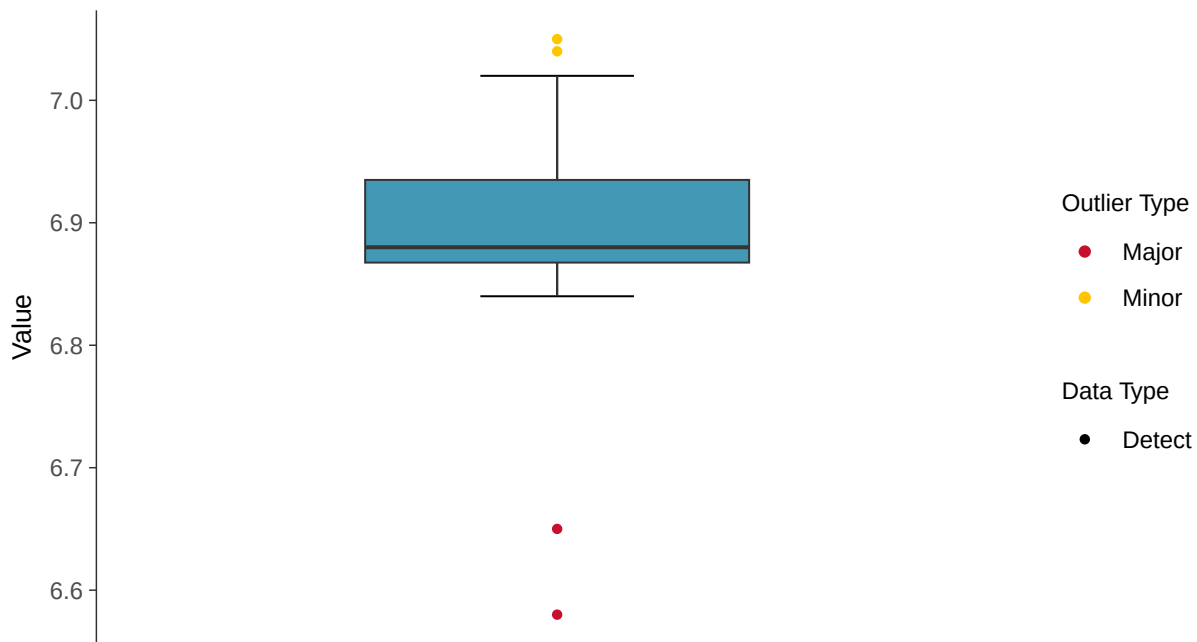
Appendix III: pH (field), MW-07

ID: 17_1_3_120



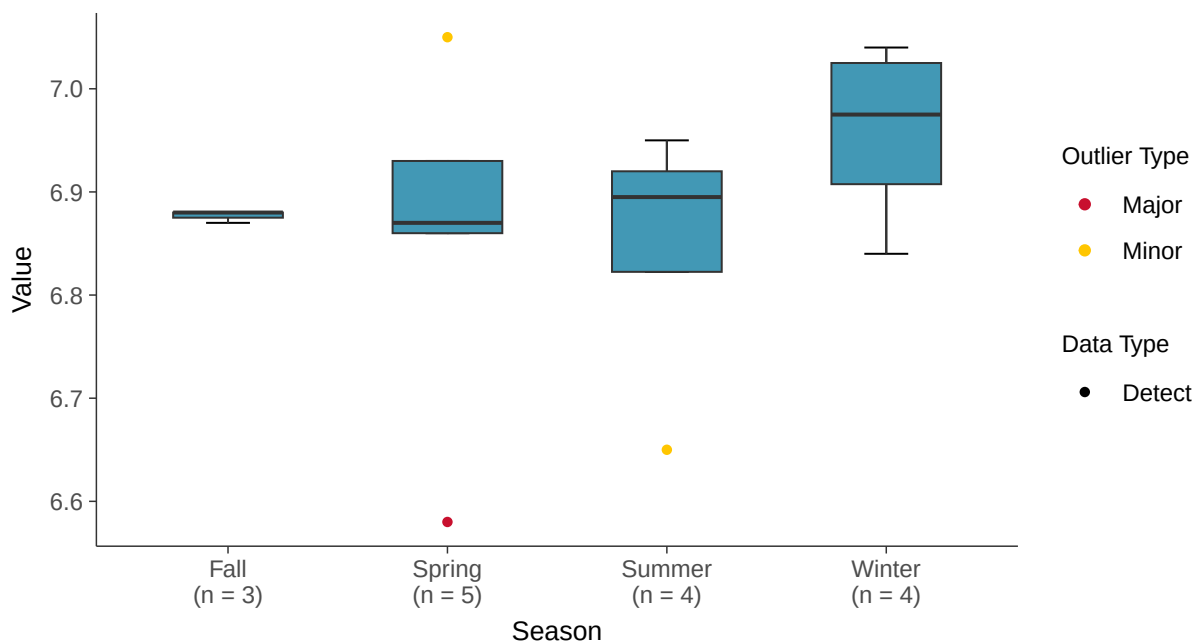
Boxplot

pH (field), MW-07 (su)

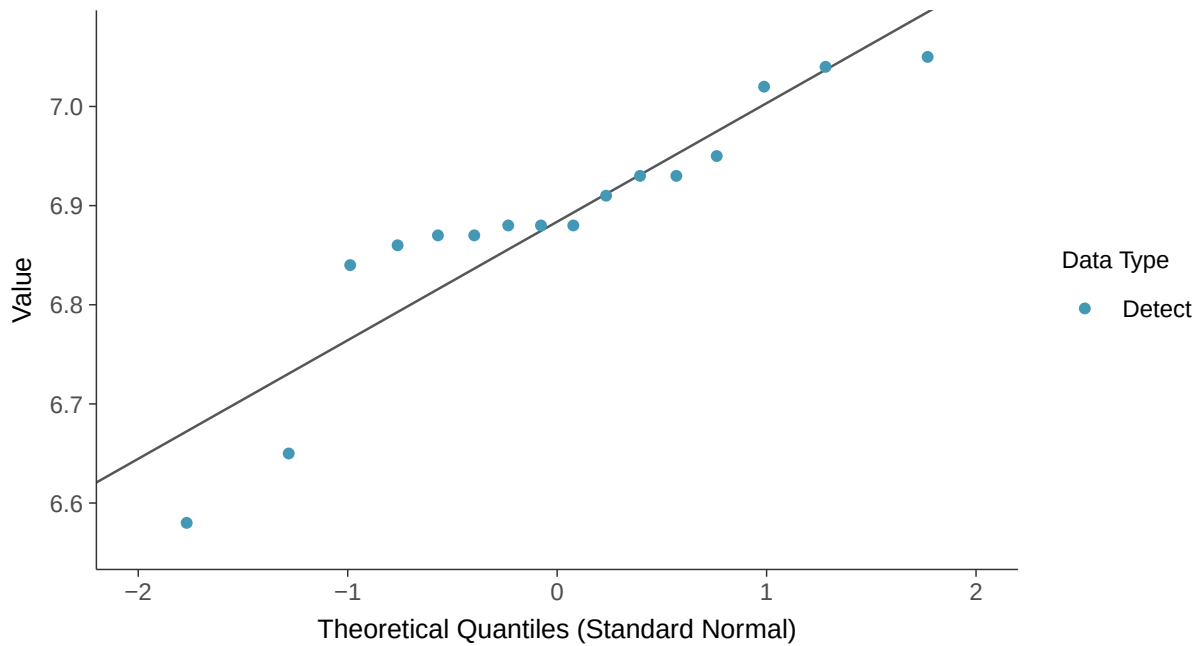


Boxplot by Season

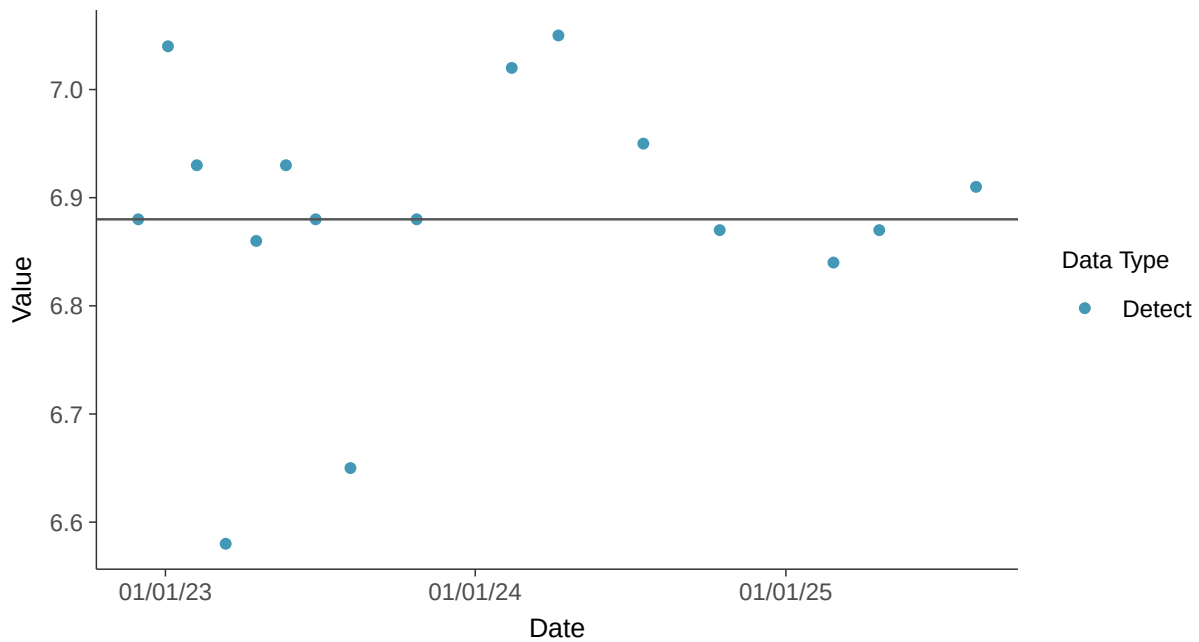
pH (field), MW-07 (su)



Normal Q-Q plot
pH (field), MW-07 (su)

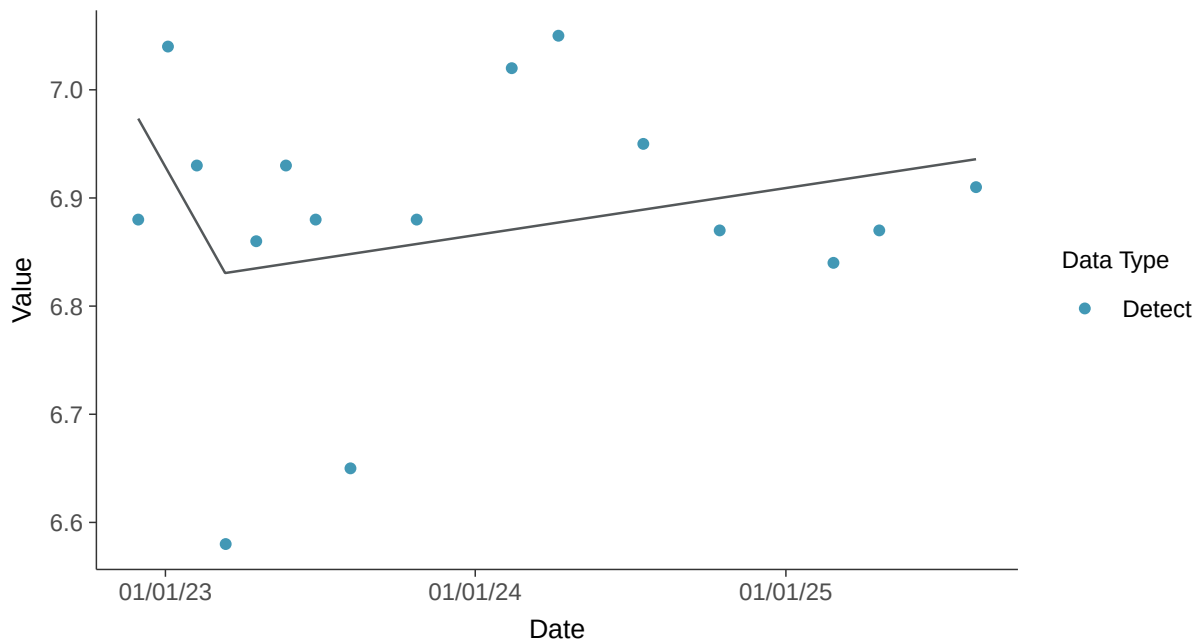


Trend Regression: Mann-Kendall/Theil-Sen Estimate
pH (field), MW-07 (su)



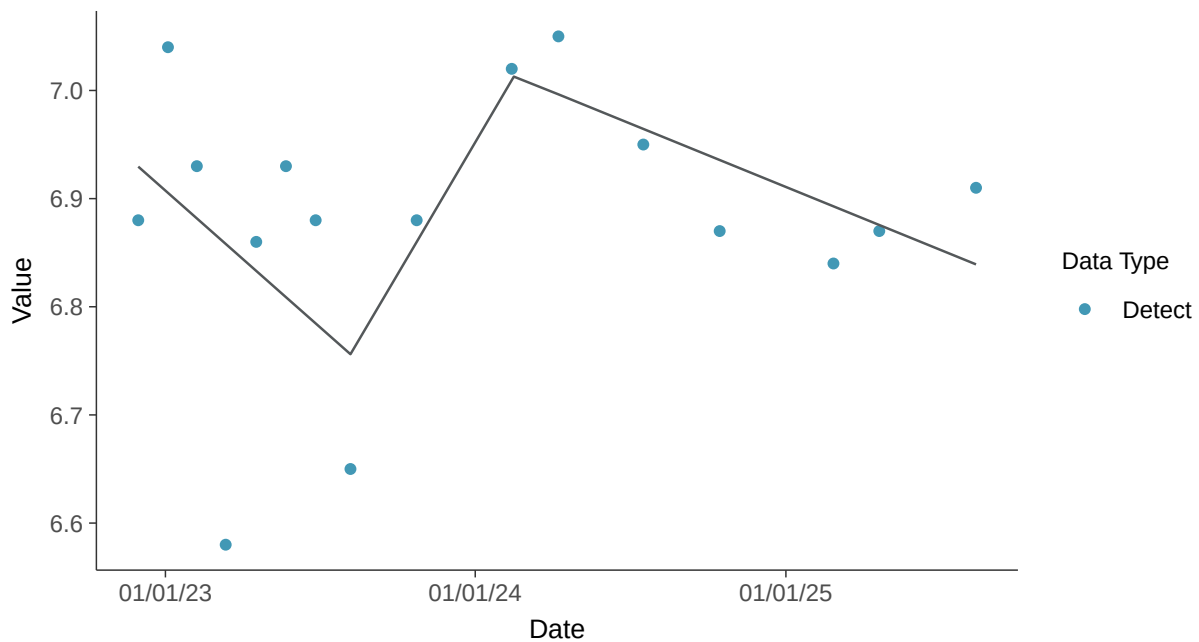
Trend Regression: Piecewise Linear-Linear

pH (field), MW-07 (su)



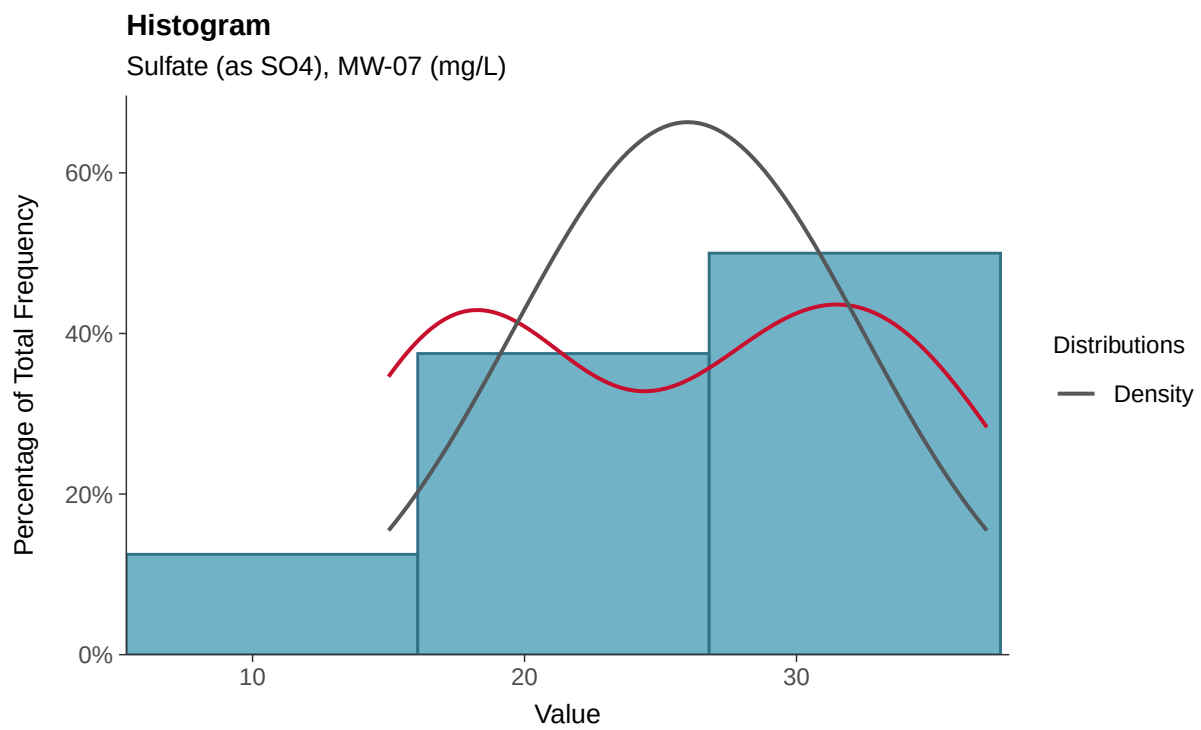
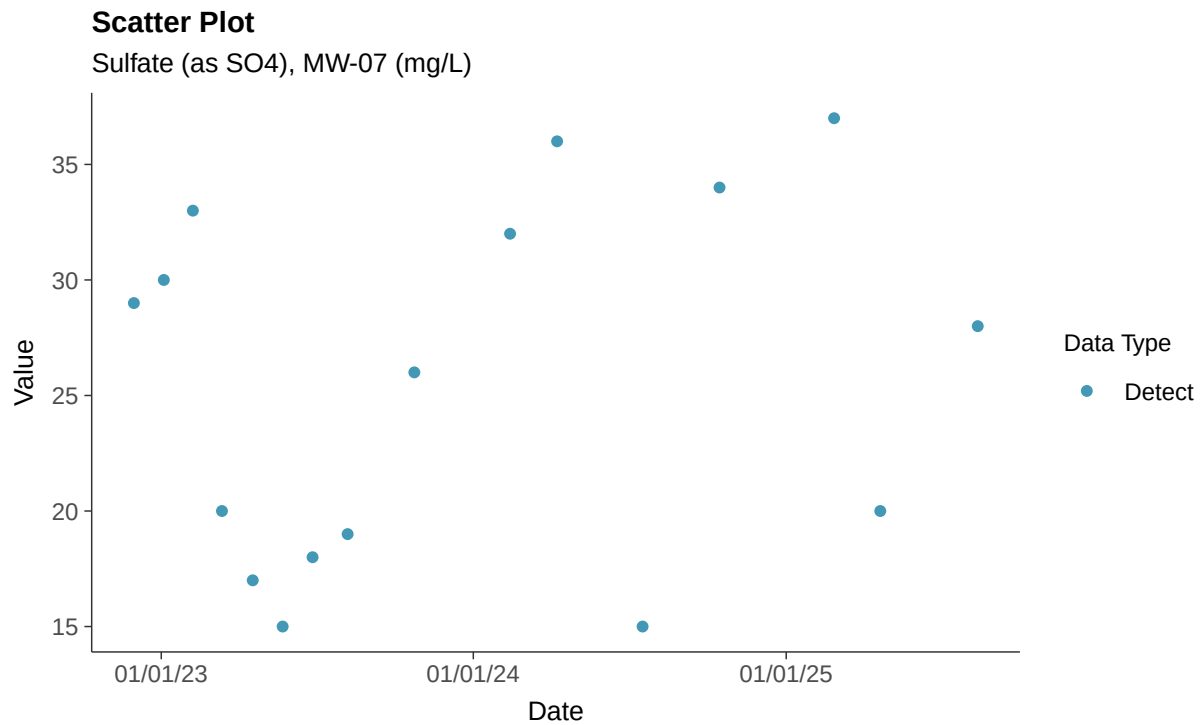
Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-07 (su)



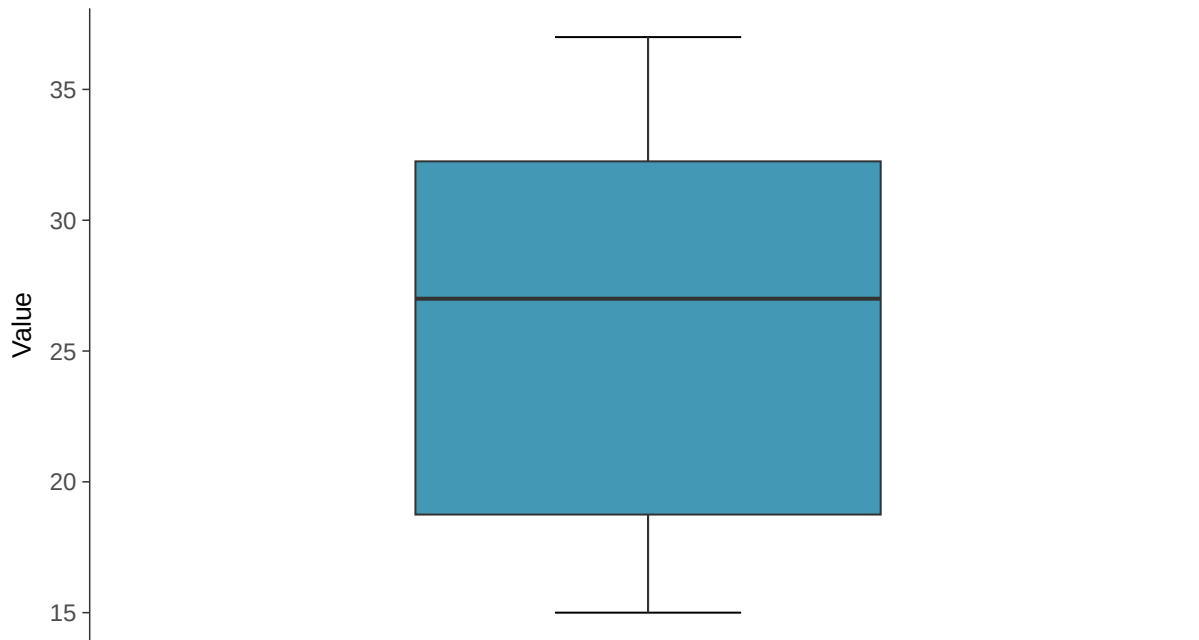
Appendix III: Sulfate (as SO₄), MW-07

ID: 17_1_3_124



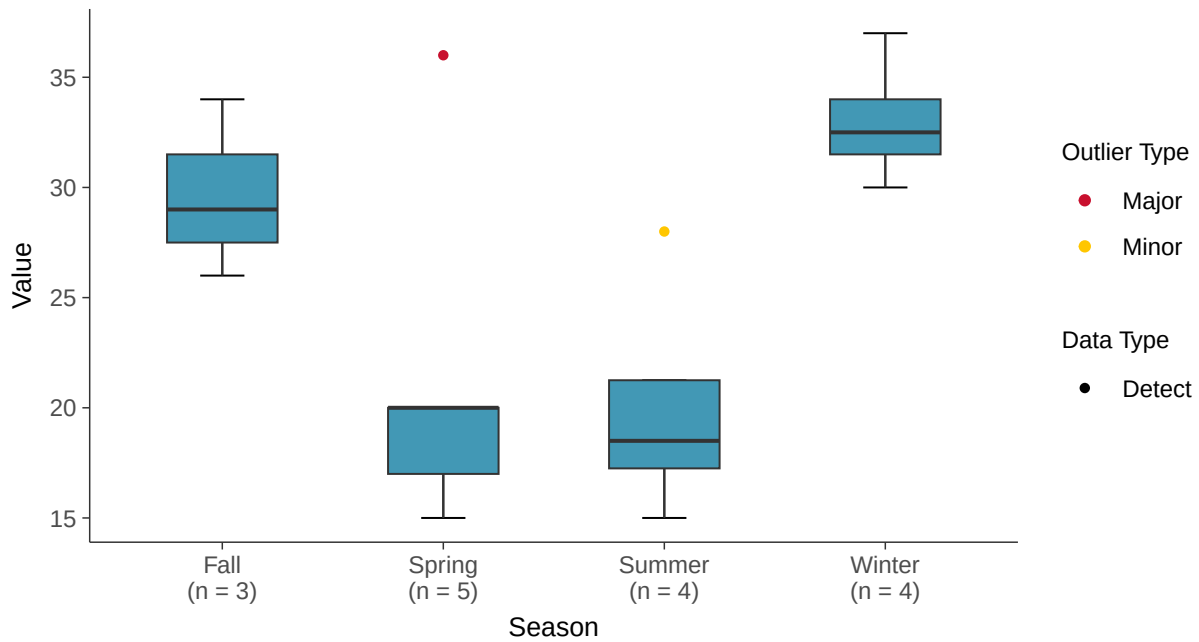
Boxplot

Sulfate (as SO₄), MW-07 (mg/L)



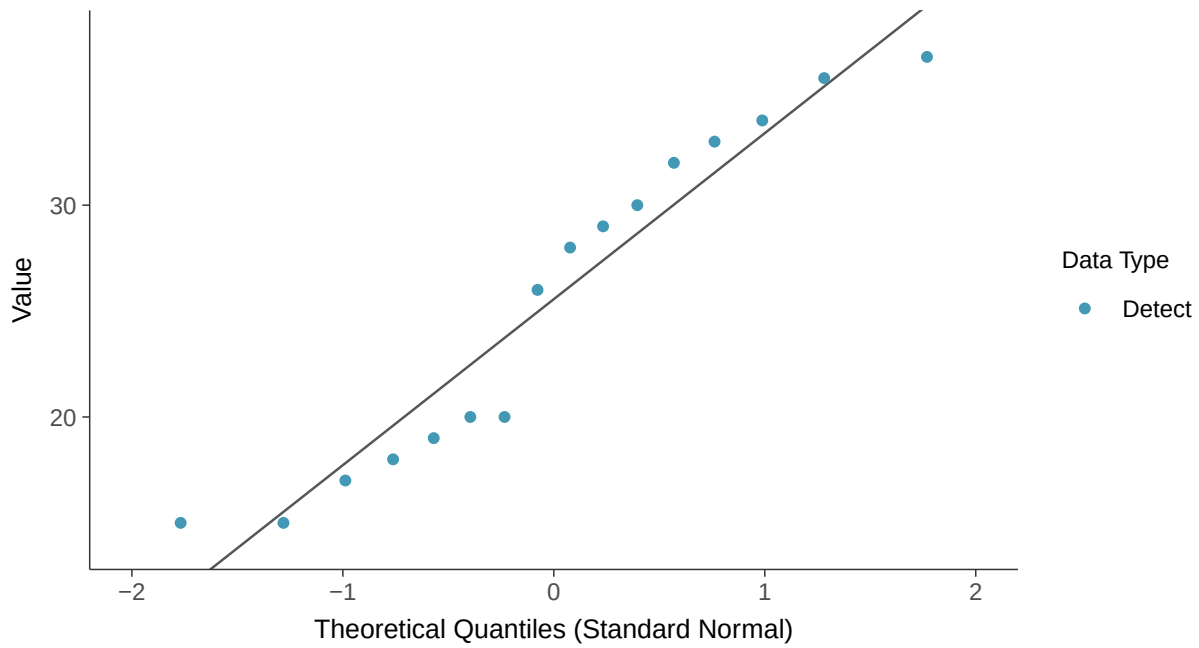
Boxplot by Season

Sulfate (as SO₄), MW-07 (mg/L)



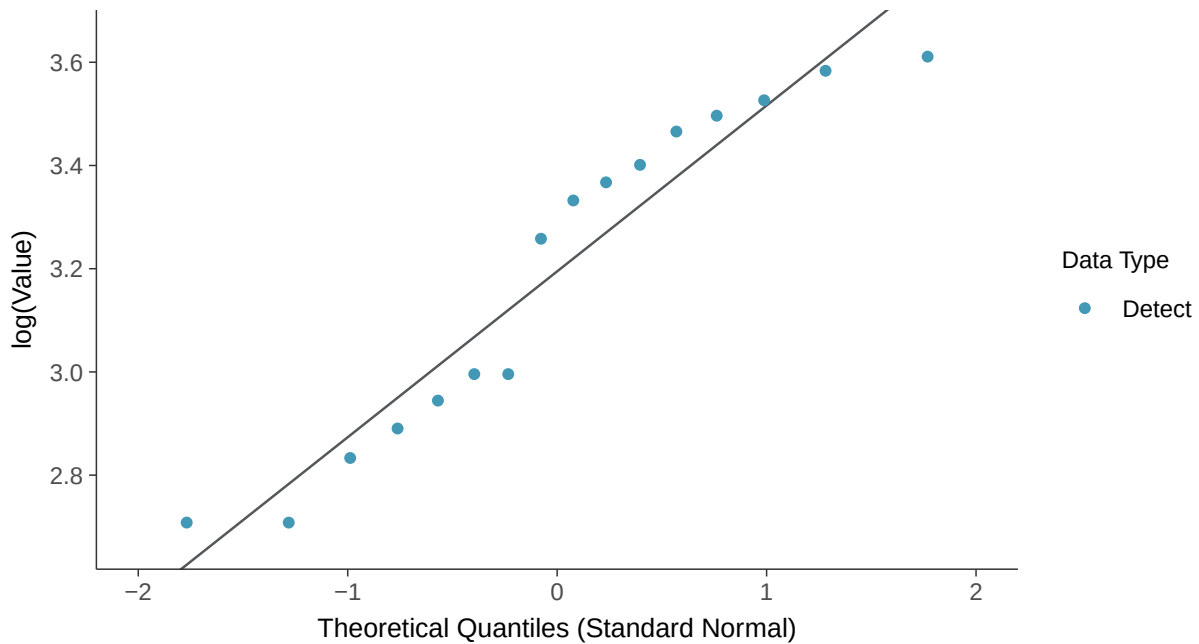
Normal Q-Q plot

Sulfate (as SO₄), MW-07 (mg/L)



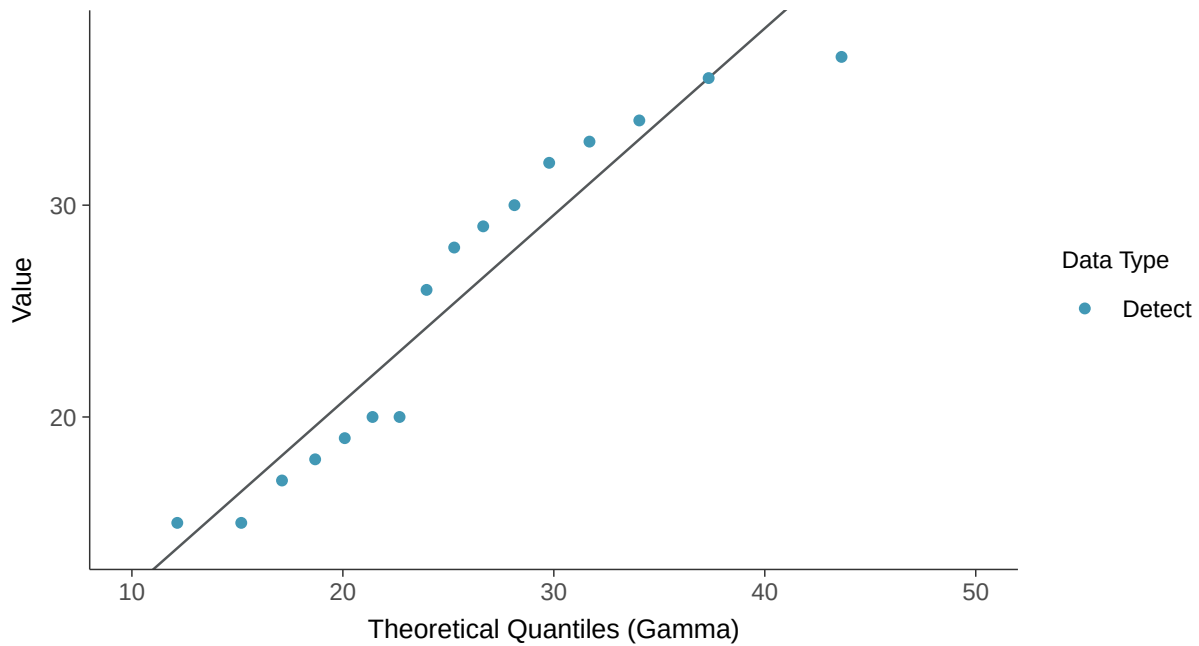
Lognormal Q-Q plot

Sulfate (as SO₄), MW-07 (mg/L)



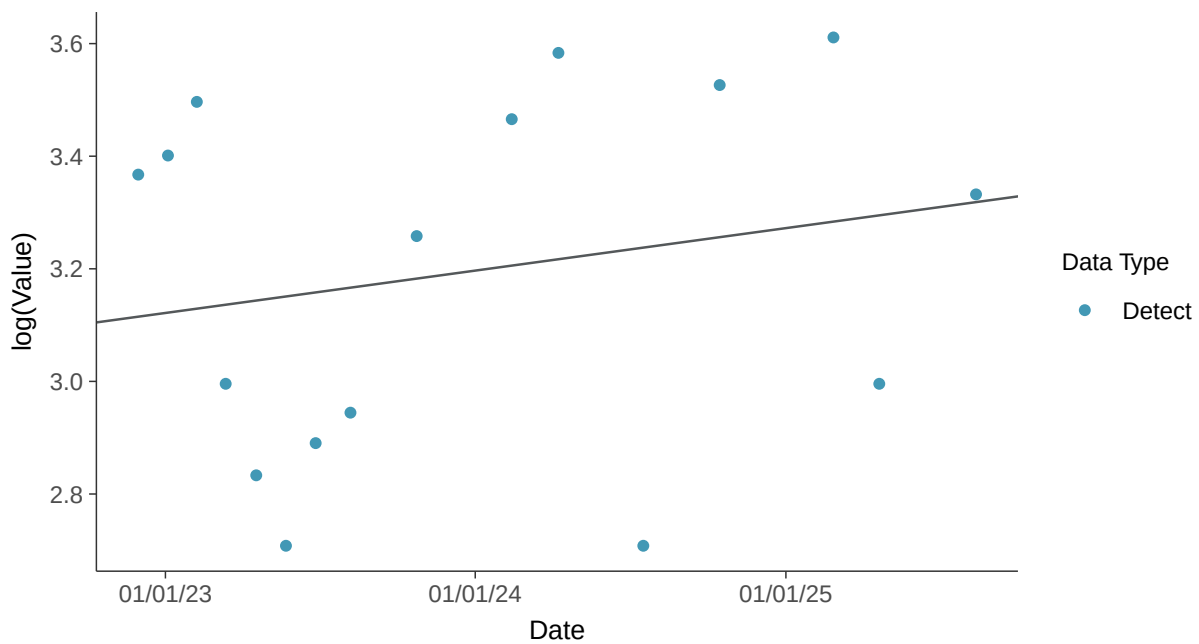
Gamma Q-Q plot

Sulfate (as SO₄), MW-07 (mg/L)



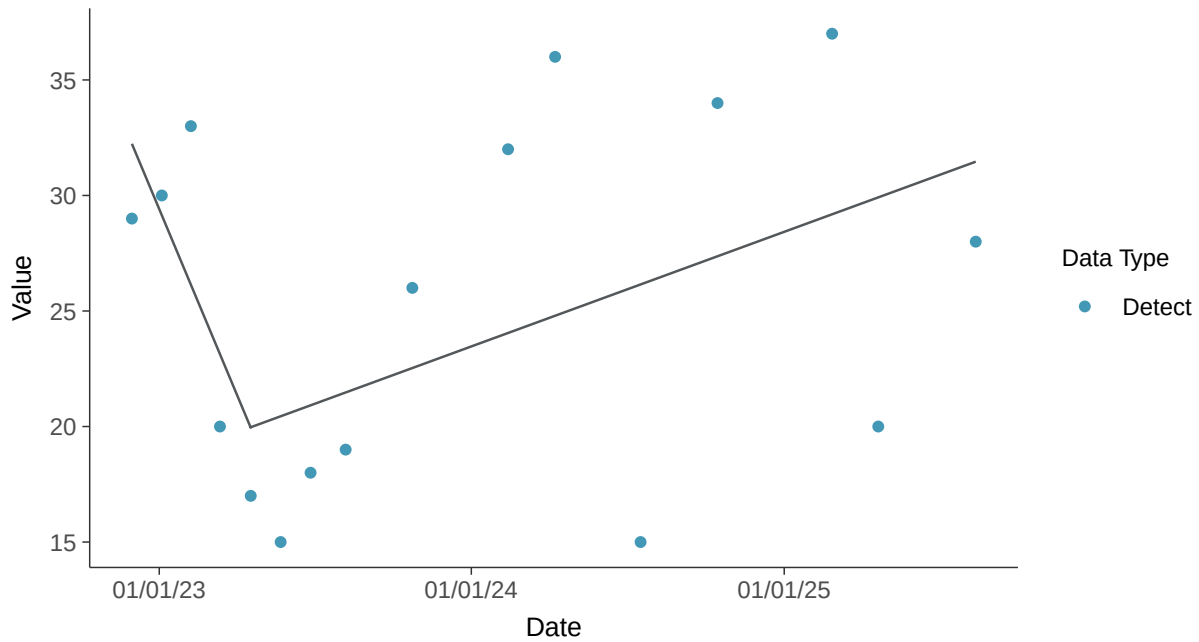
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-07 (mg/L)



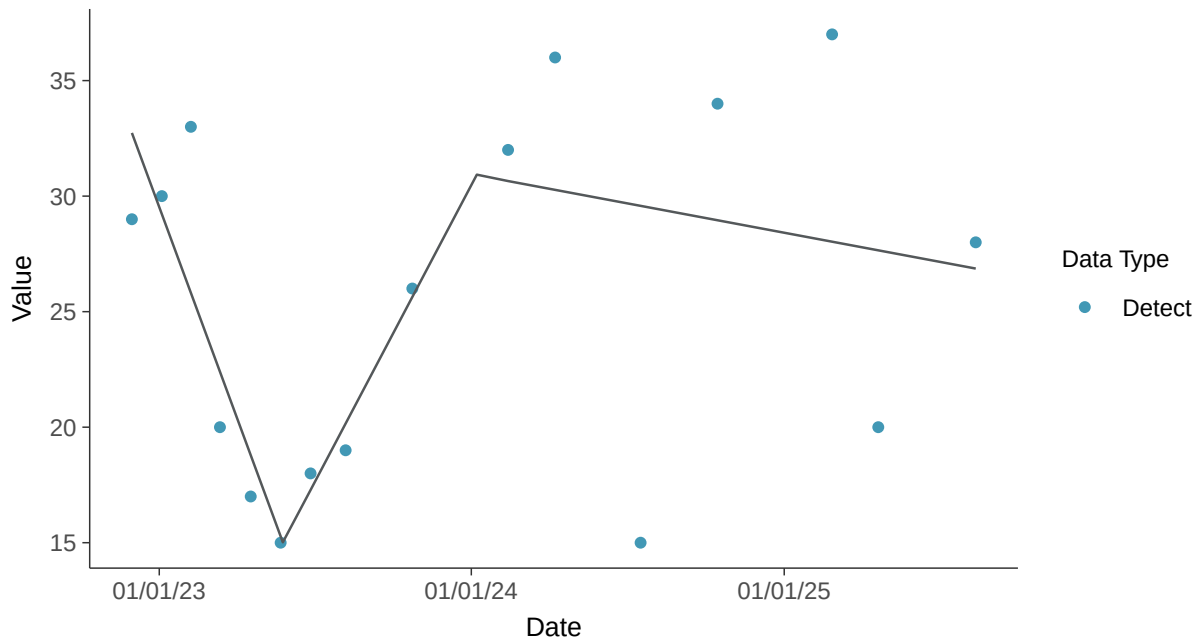
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-07 (mg/L)

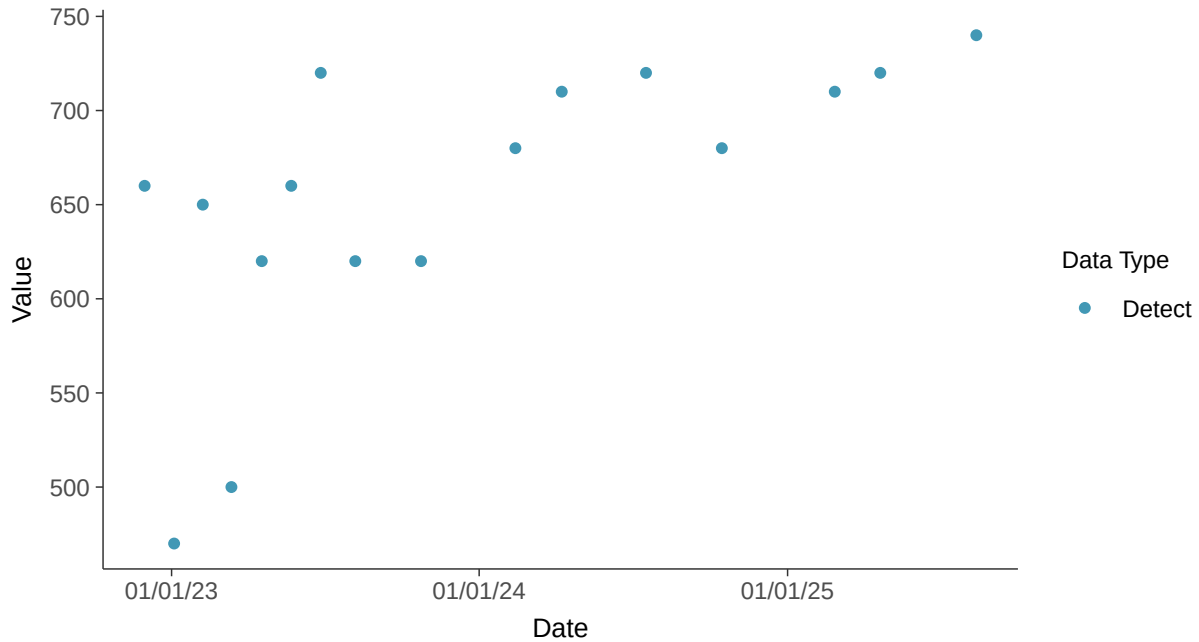


Appendix III: Total Dissolved Solids, MW-07

ID: 17_1_3_126

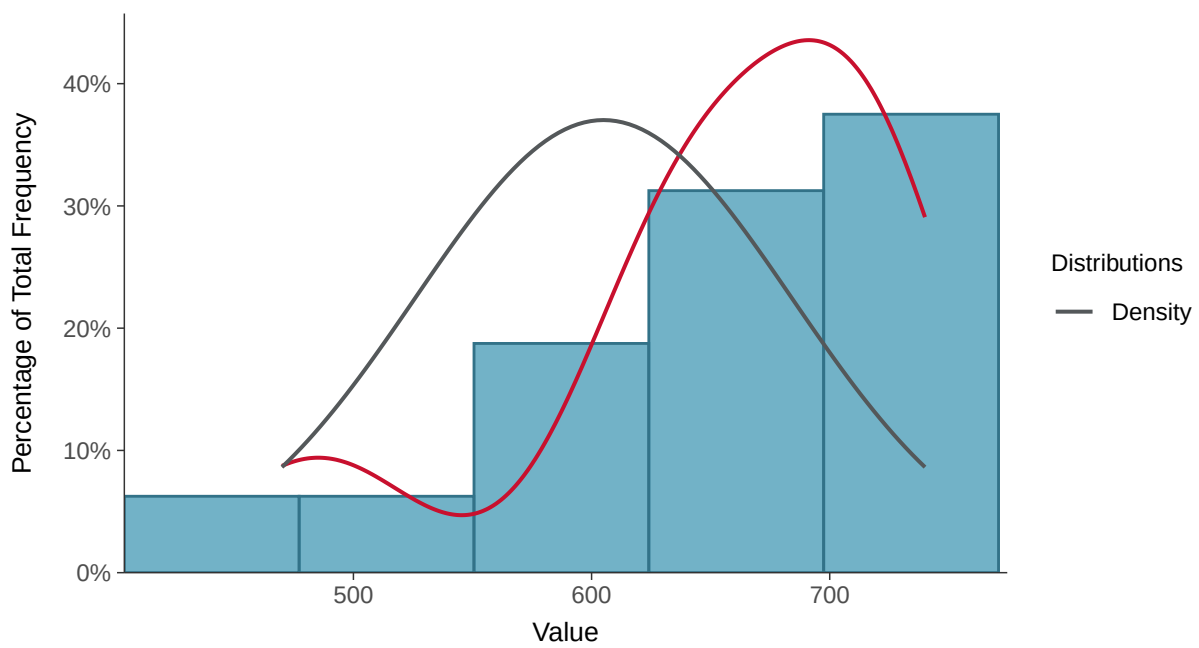
Scatter Plot

Total Dissolved Solids, MW-07 (mg/L)



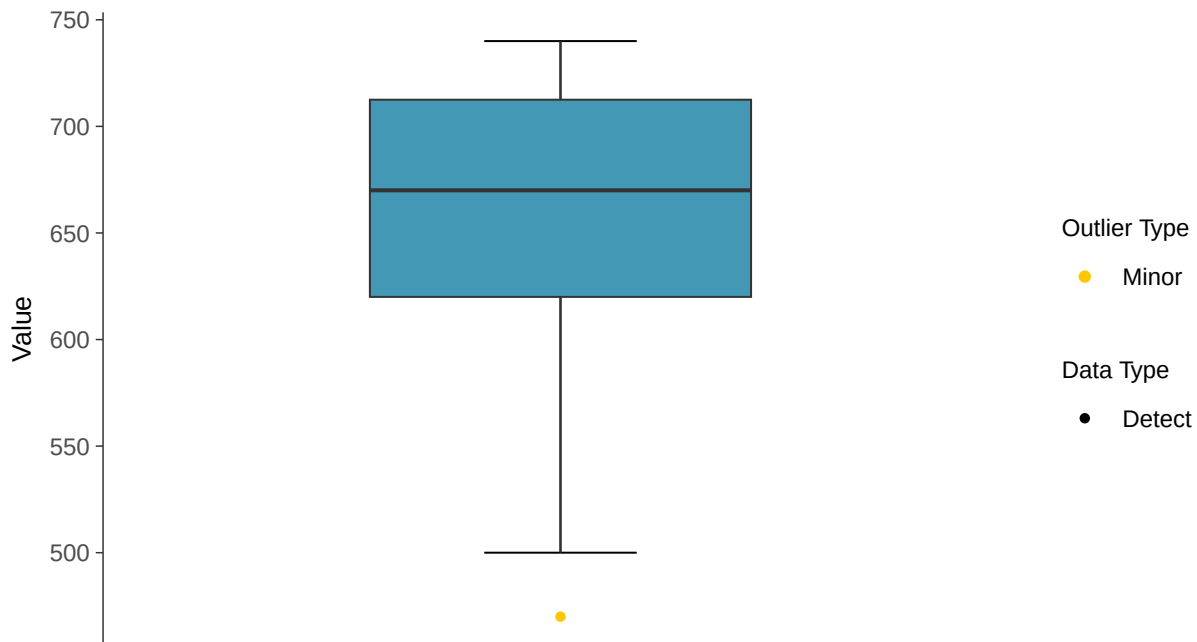
Histogram

Total Dissolved Solids, MW-07 (mg/L)



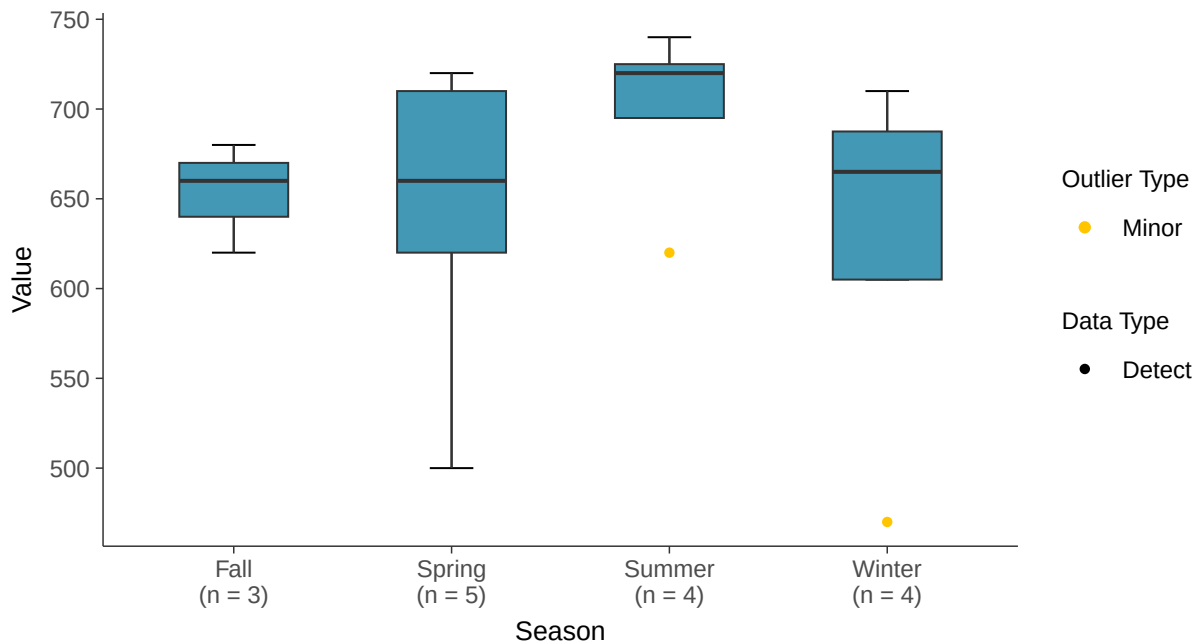
Boxplot

Total Dissolved Solids, MW-07 (mg/L)



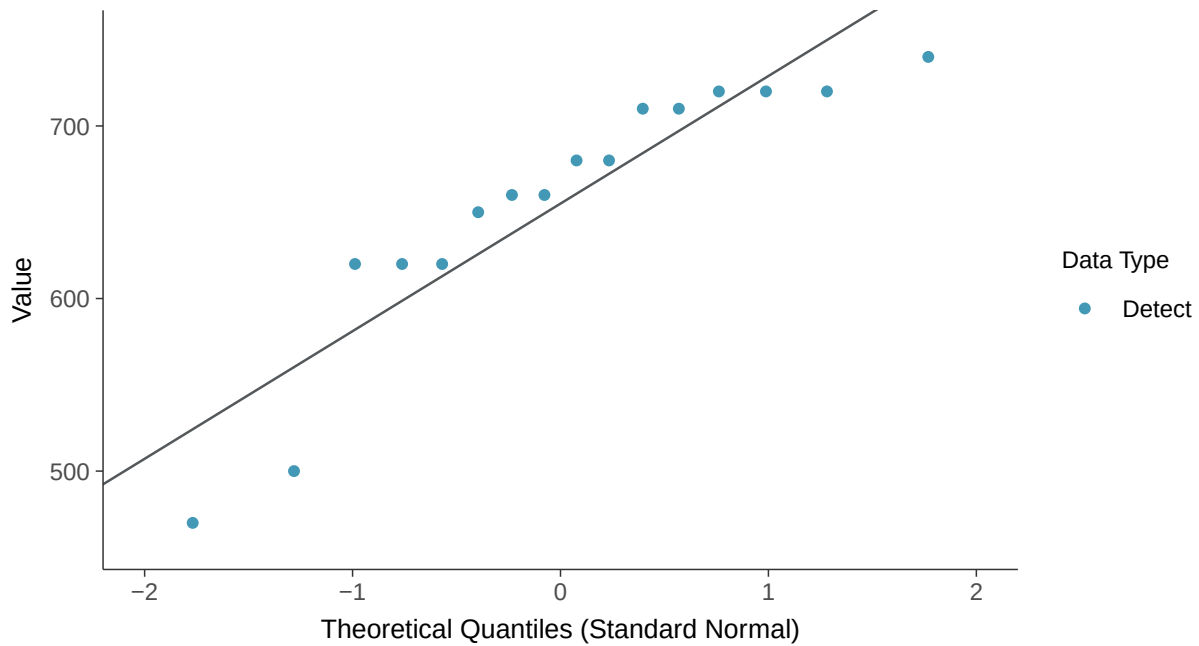
Boxplot by Season

Total Dissolved Solids, MW-07 (mg/L)



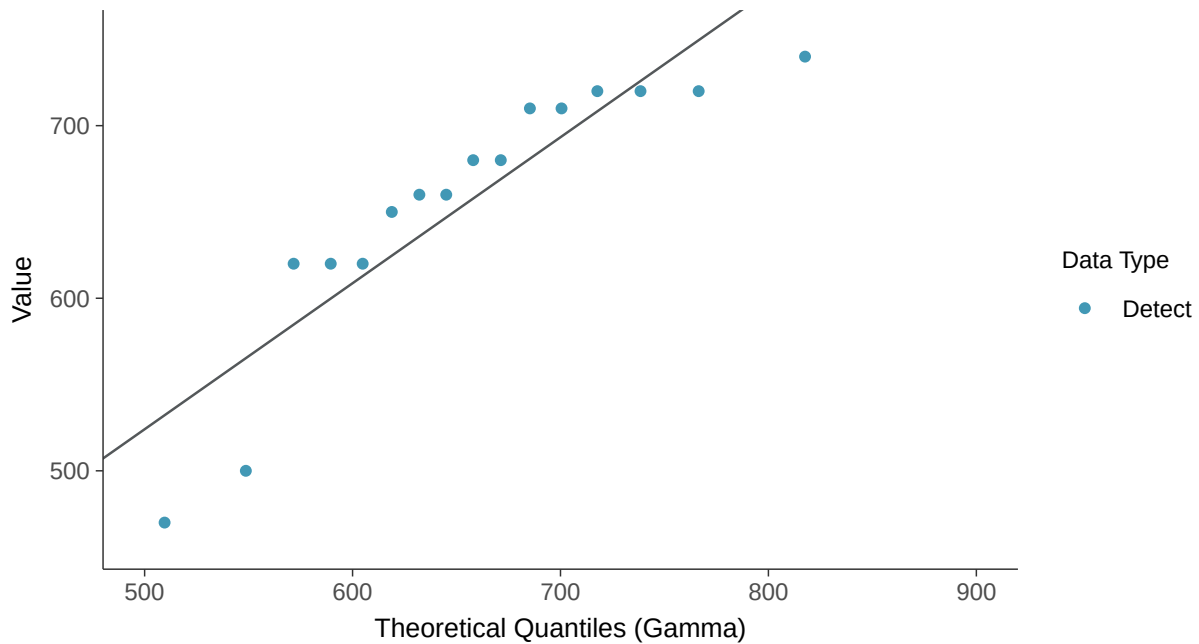
Normal Q-Q plot

Total Dissolved Solids, MW-07 (mg/L)



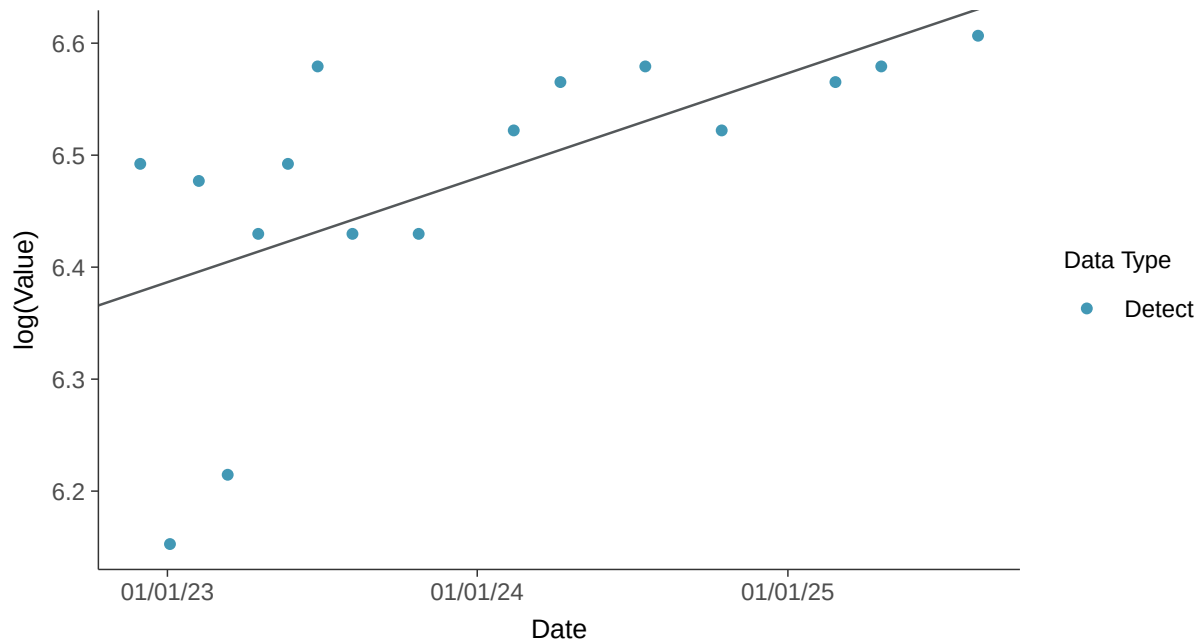
Gamma Q-Q plot

Total Dissolved Solids, MW-07 (mg/L)



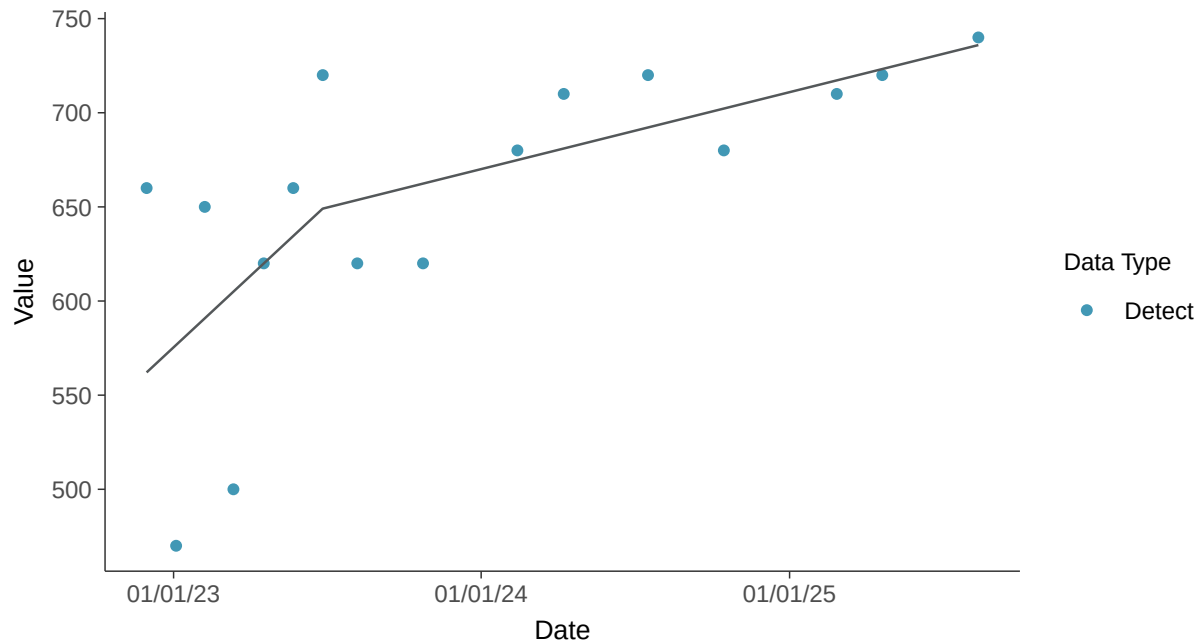
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-07 (mg/L)



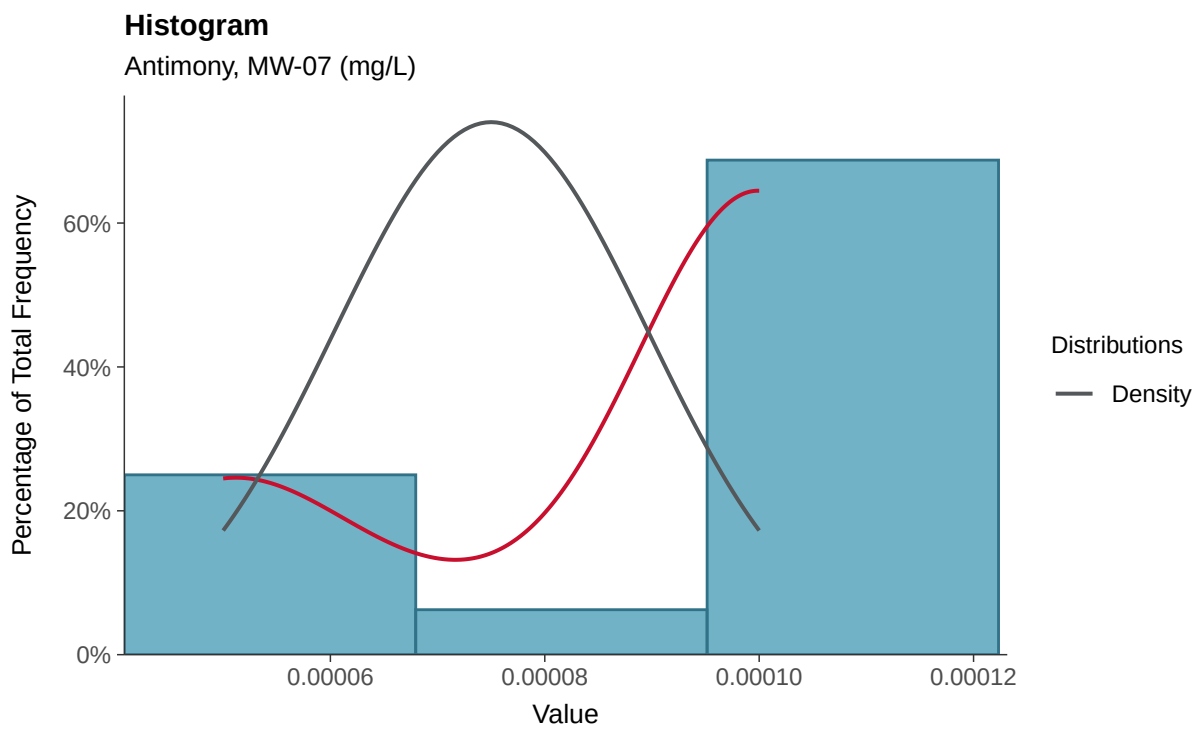
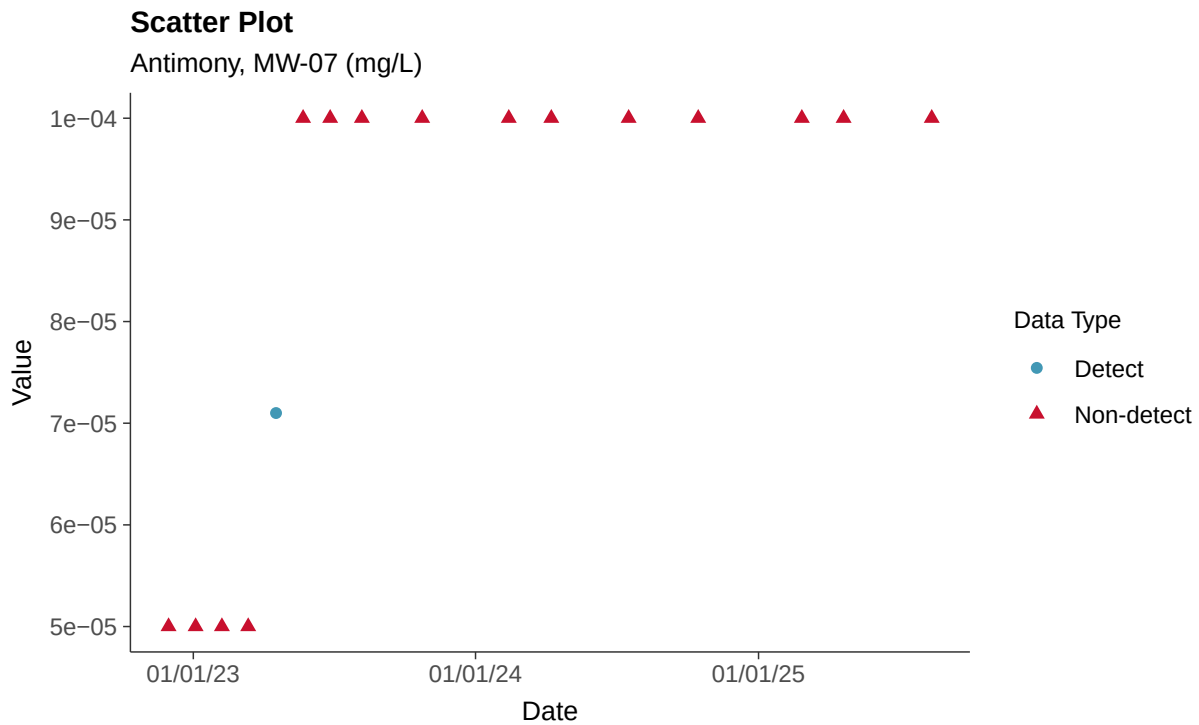
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-07 (mg/L)



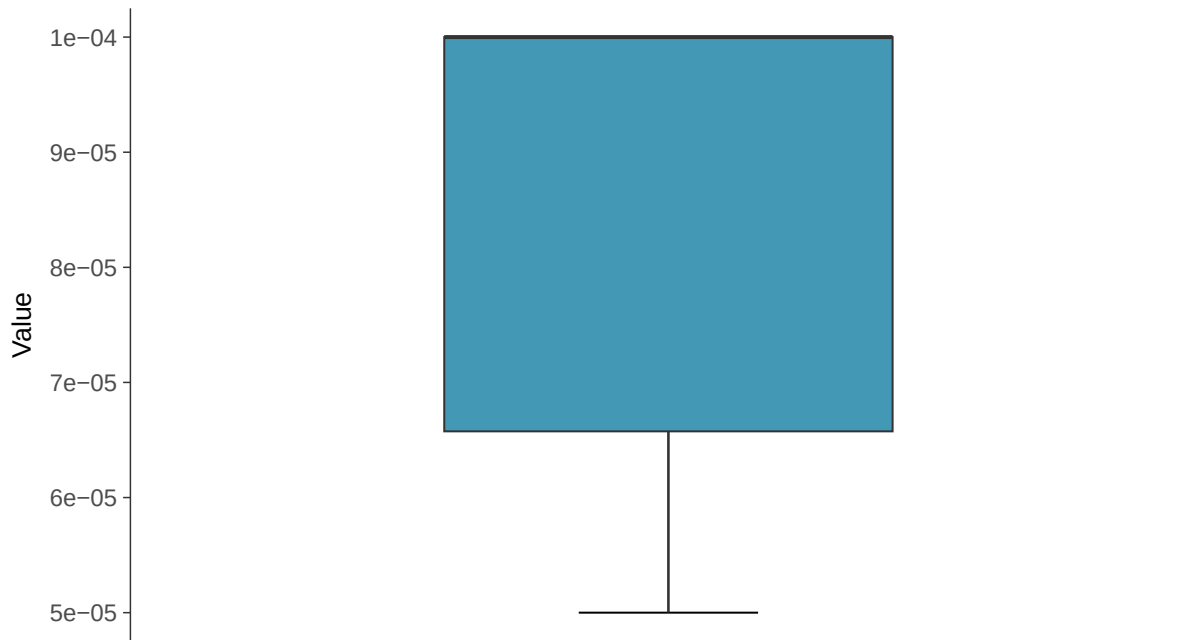
Appendix IV: Antimony, MW-07

ID: 17_1_4_101



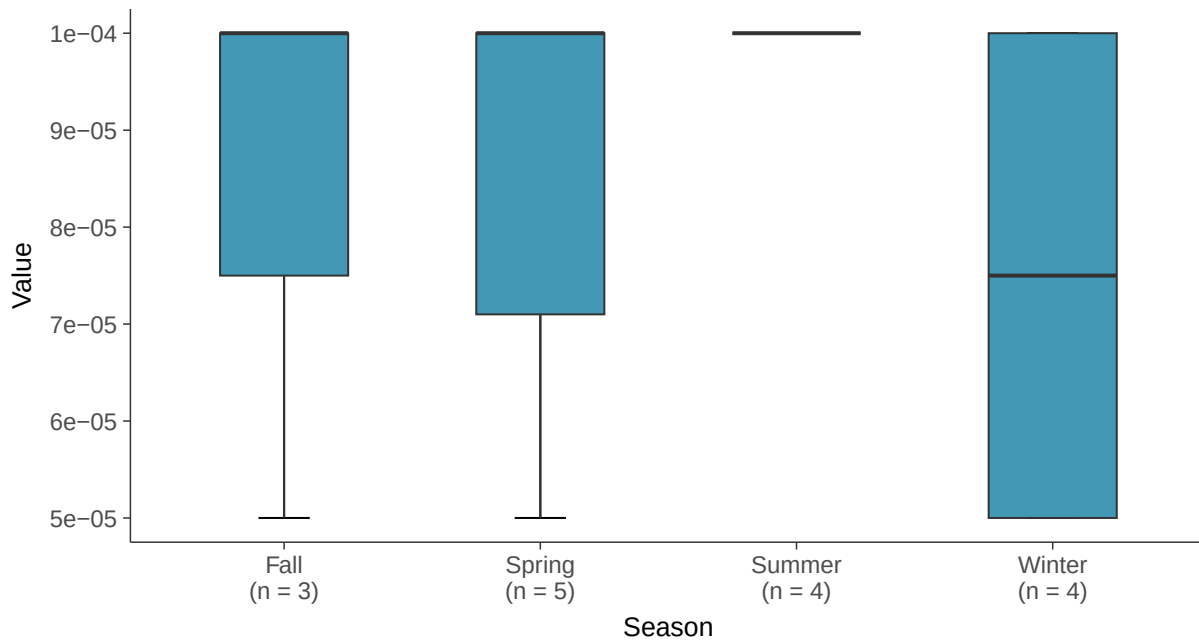
Boxplot

Antimony, MW-07 (mg/L)



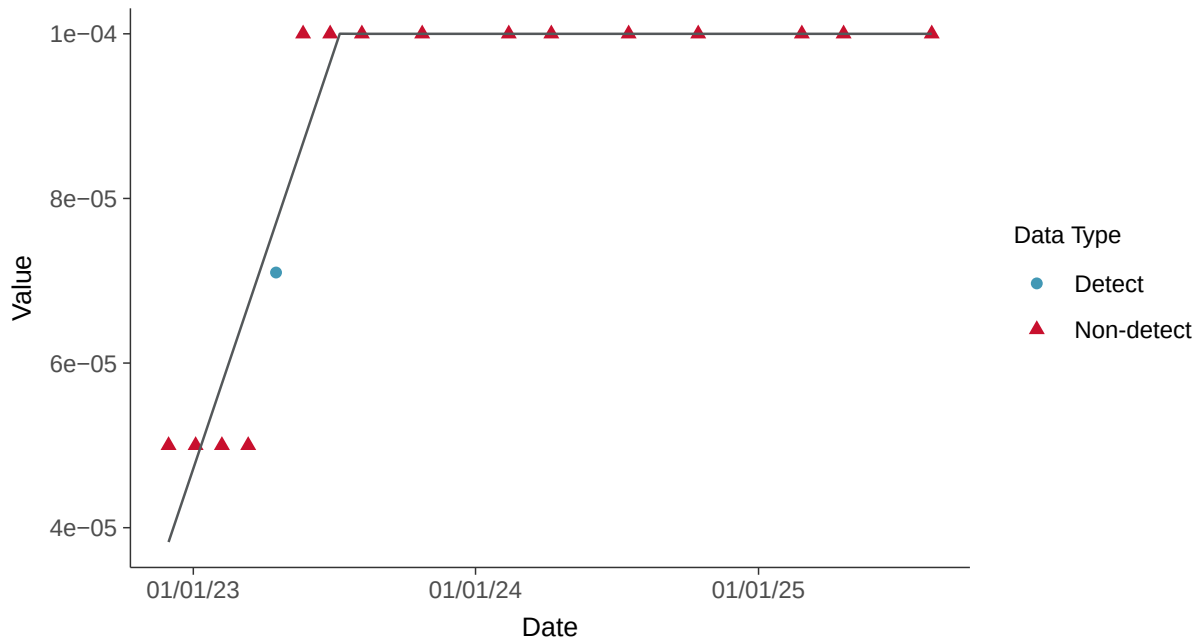
Boxplot by Season

Antimony, MW-07 (mg/L)



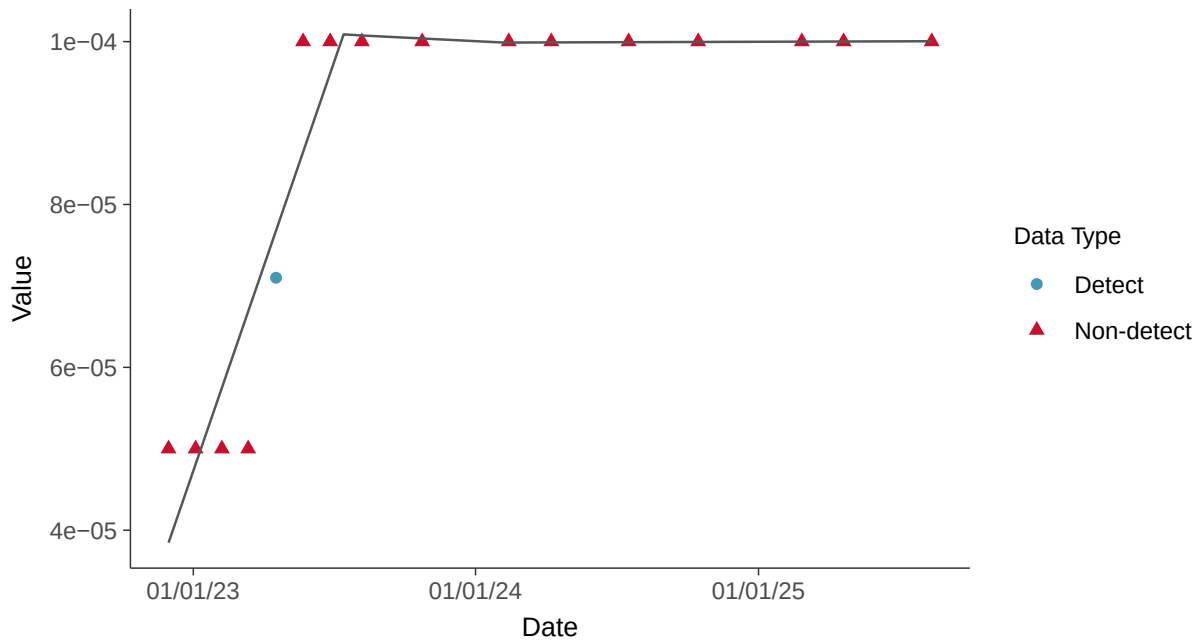
Trend Regression: Piecewise Linear-Linear

Antimony, MW-07 (mg/L)



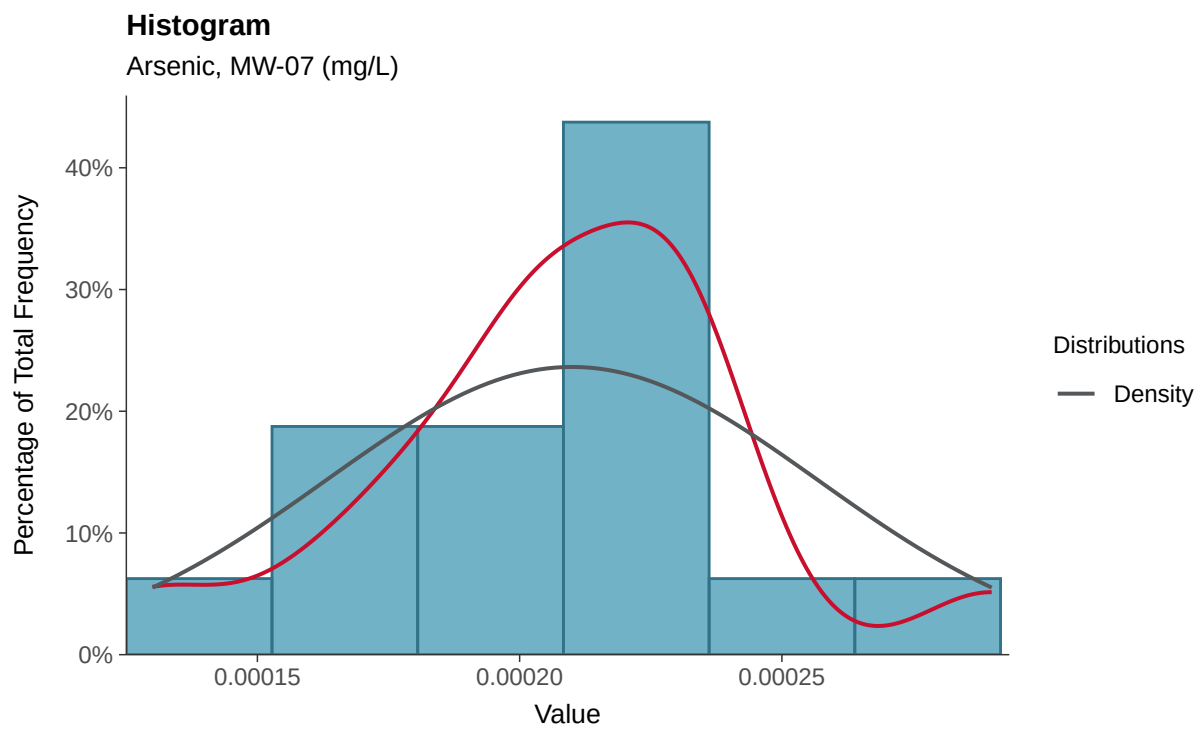
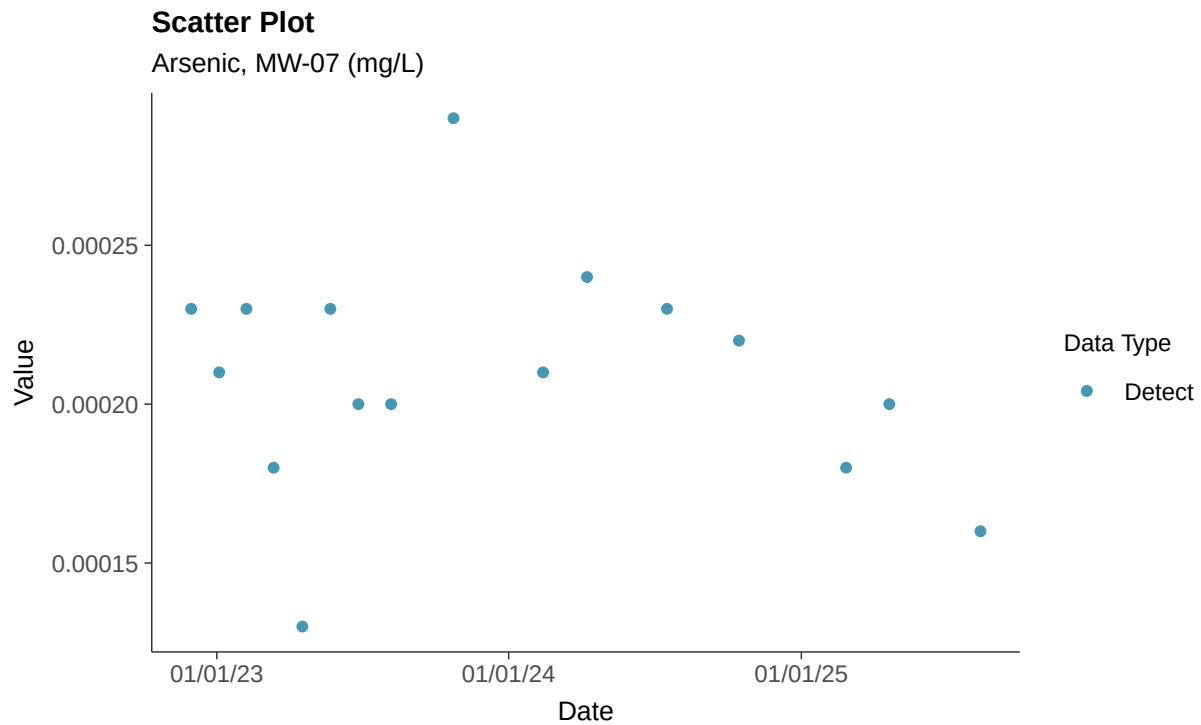
Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-07 (mg/L)



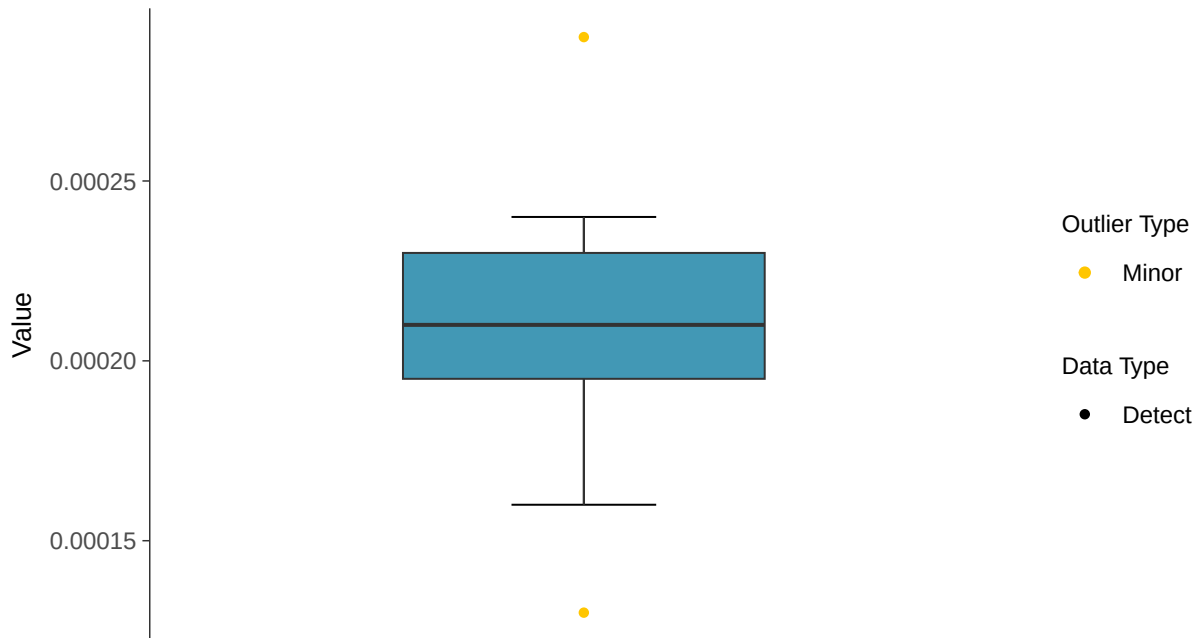
Appendix IV: Arsenic, MW-07

ID: 17_1_4_102



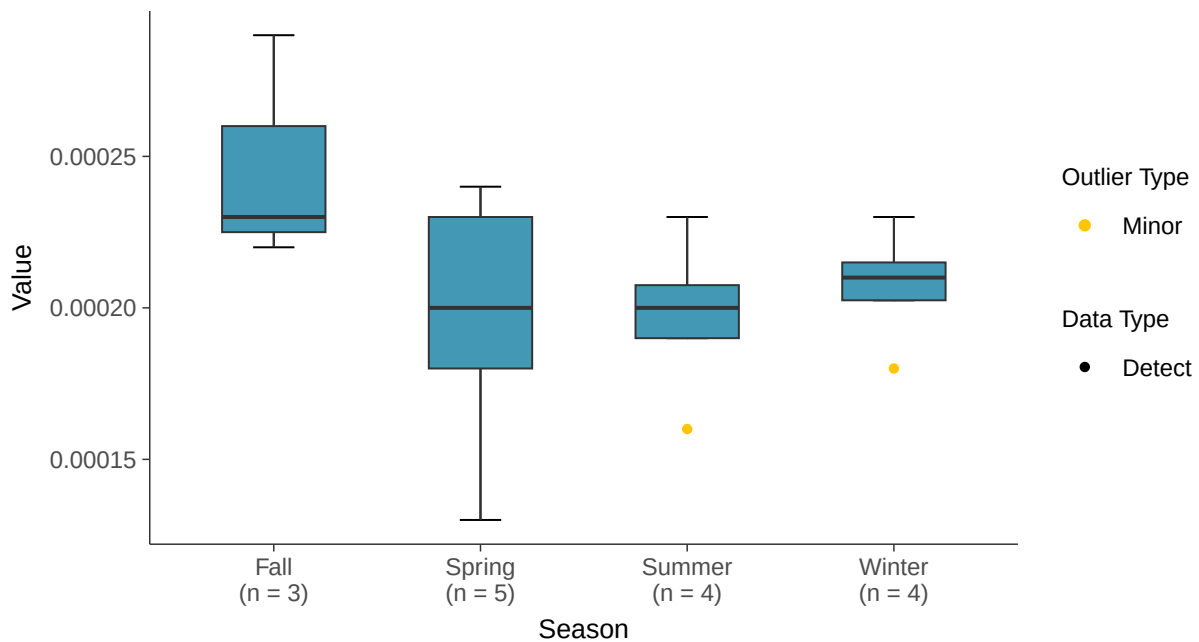
Boxplot

Arsenic, MW-07 (mg/L)



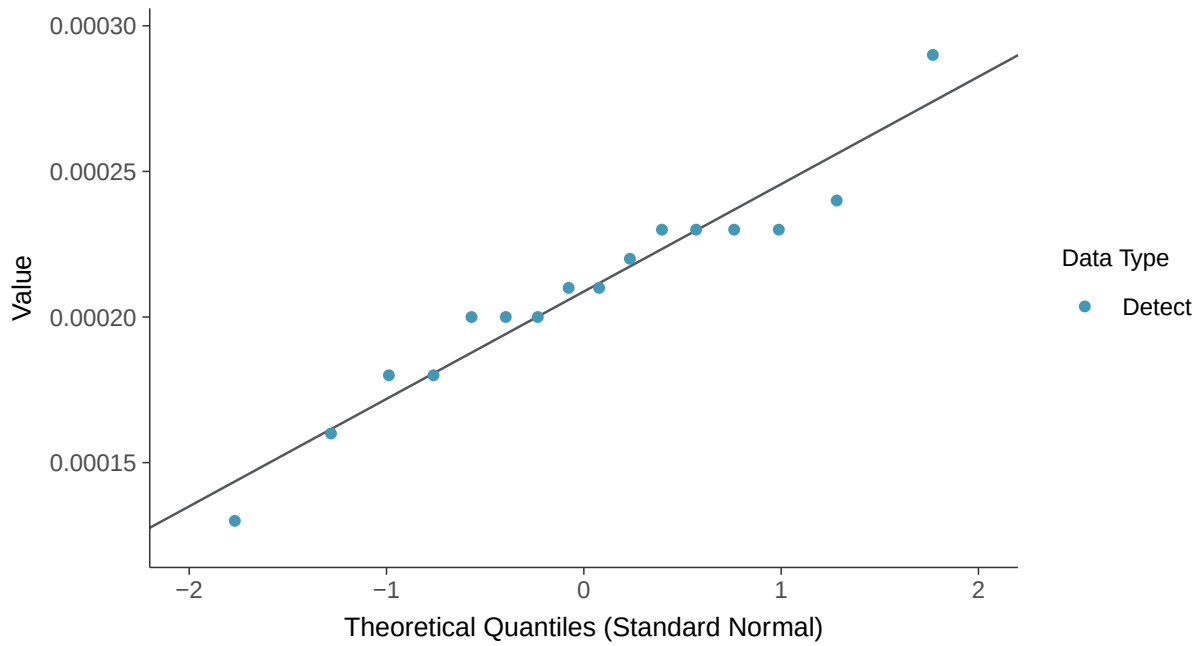
Boxplot by Season

Arsenic, MW-07 (mg/L)



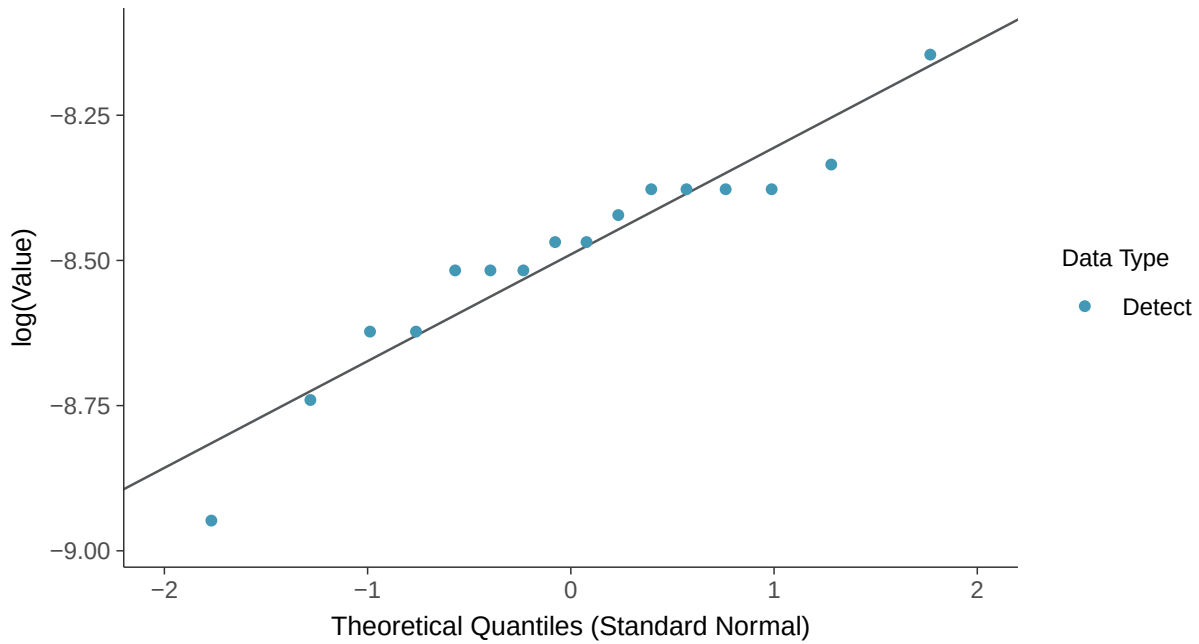
Normal Q-Q plot

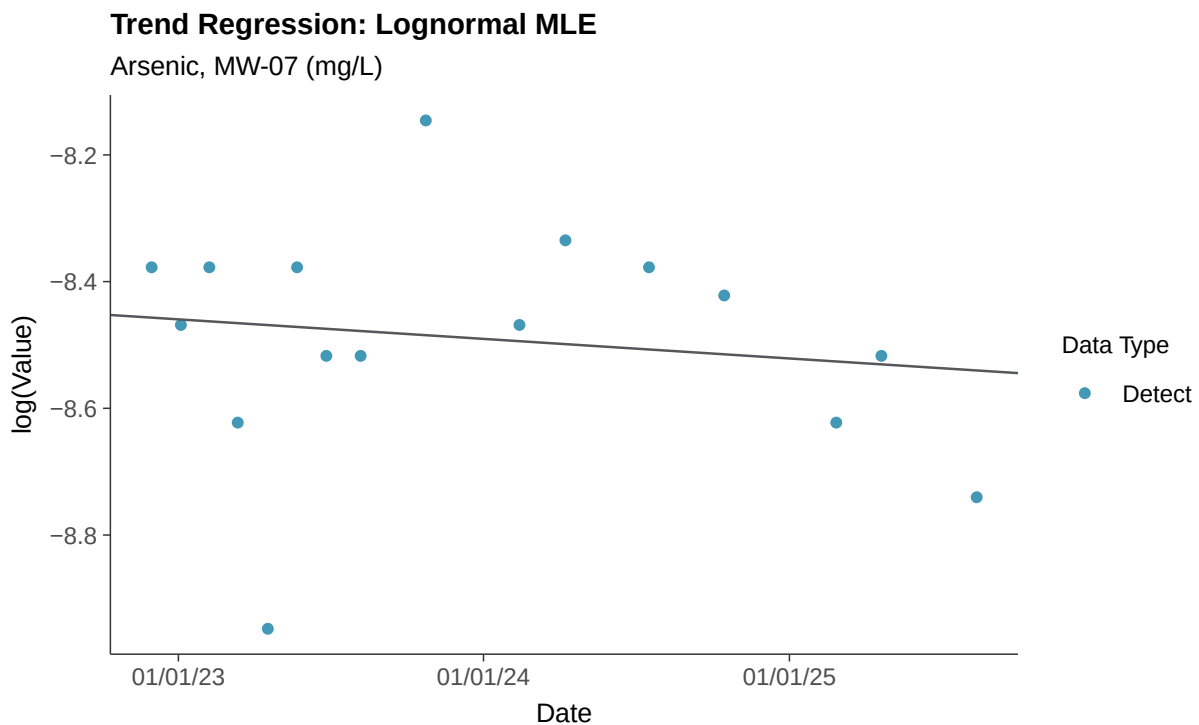
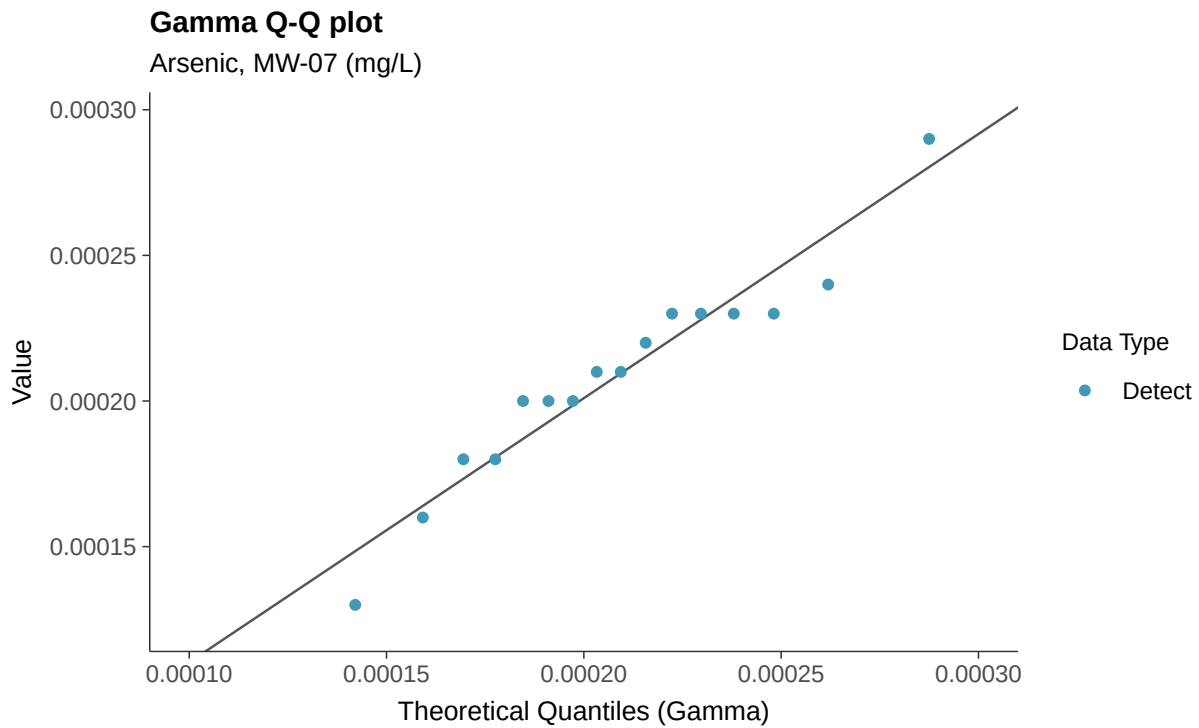
Arsenic, MW-07 (mg/L)



Lognormal Q-Q plot

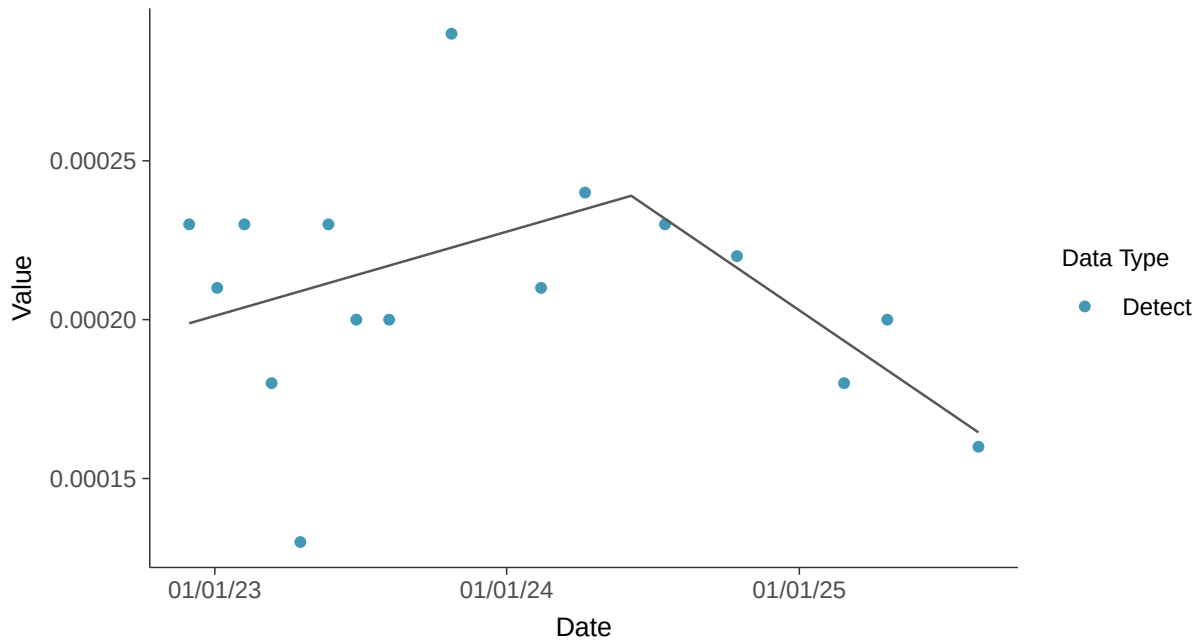
Arsenic, MW-07 (mg/L)





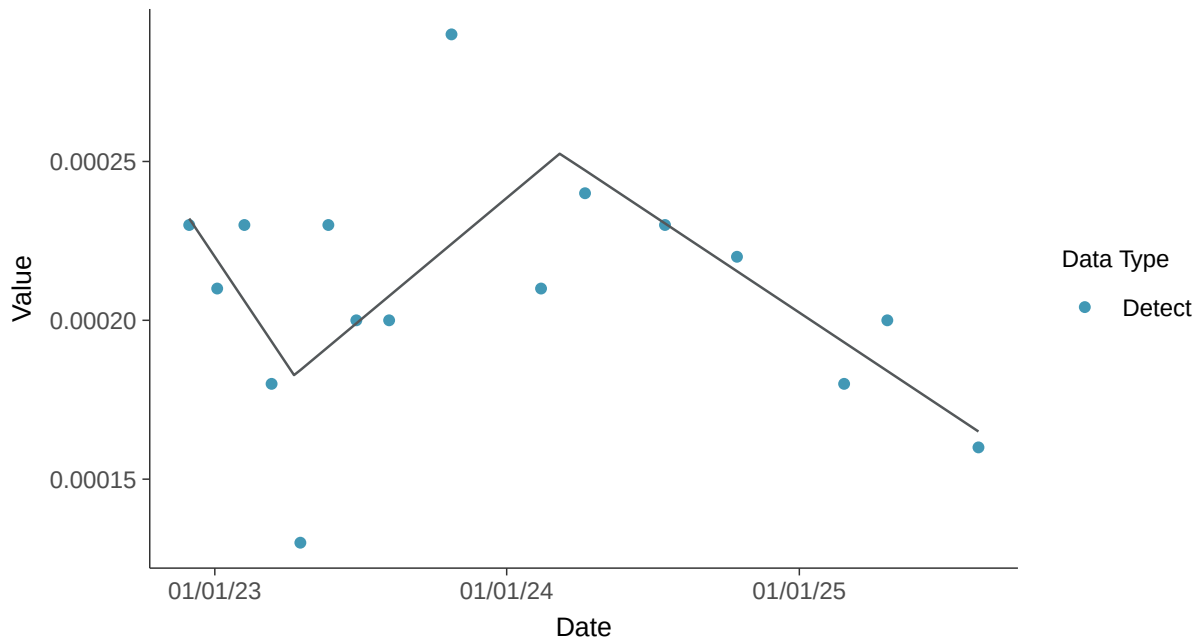
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-07 (mg/L)



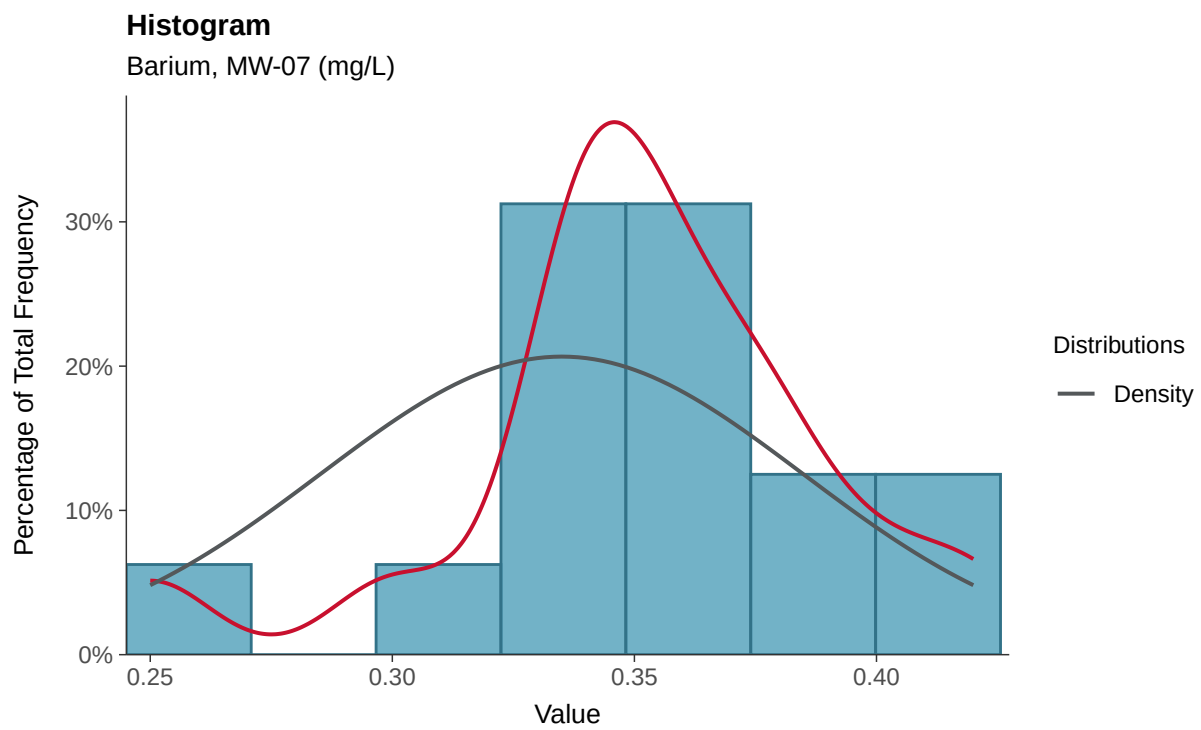
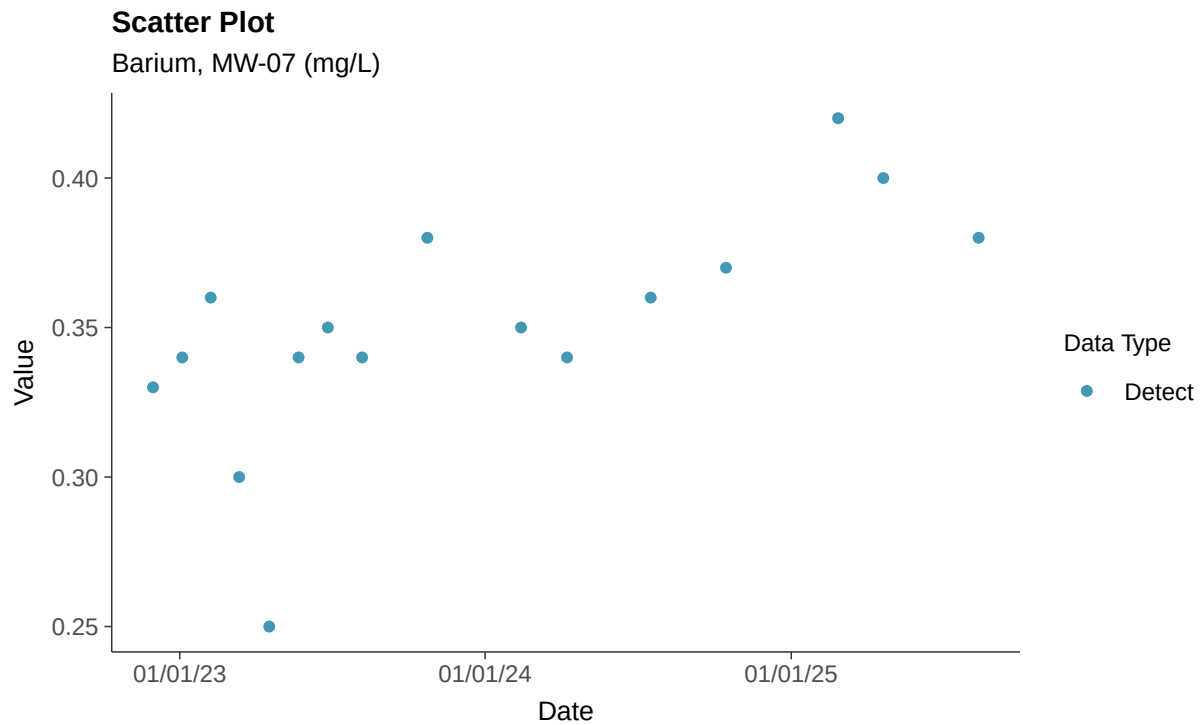
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-07 (mg/L)



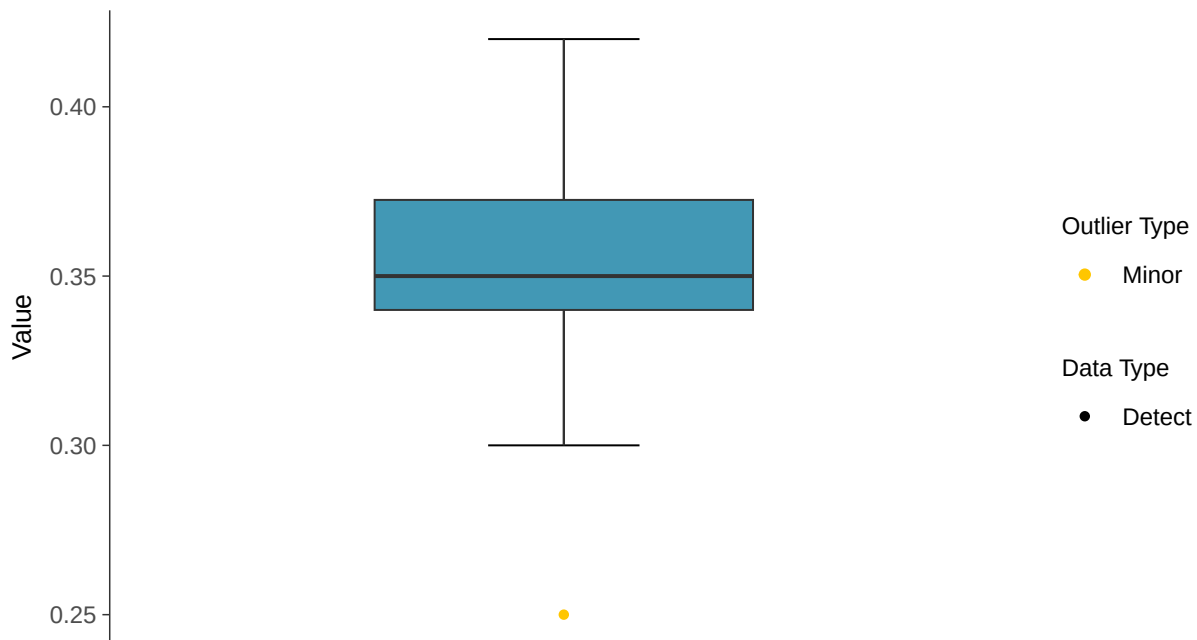
Appendix IV: Barium, MW-07

ID: 17_1_4_103



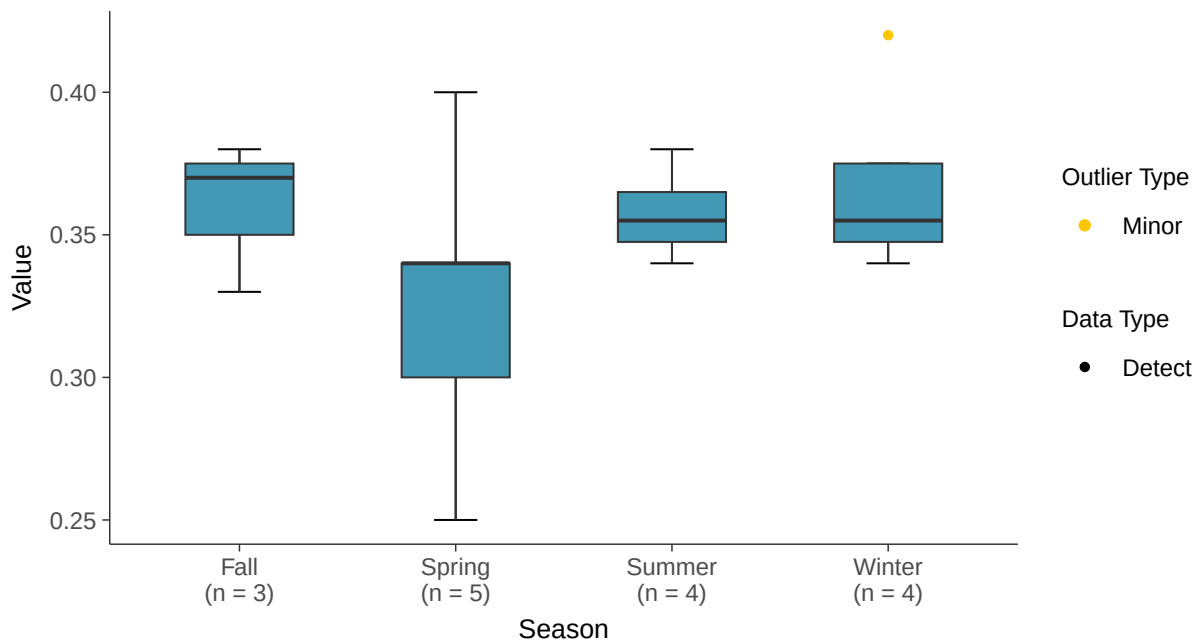
Boxplot

Barium, MW-07 (mg/L)



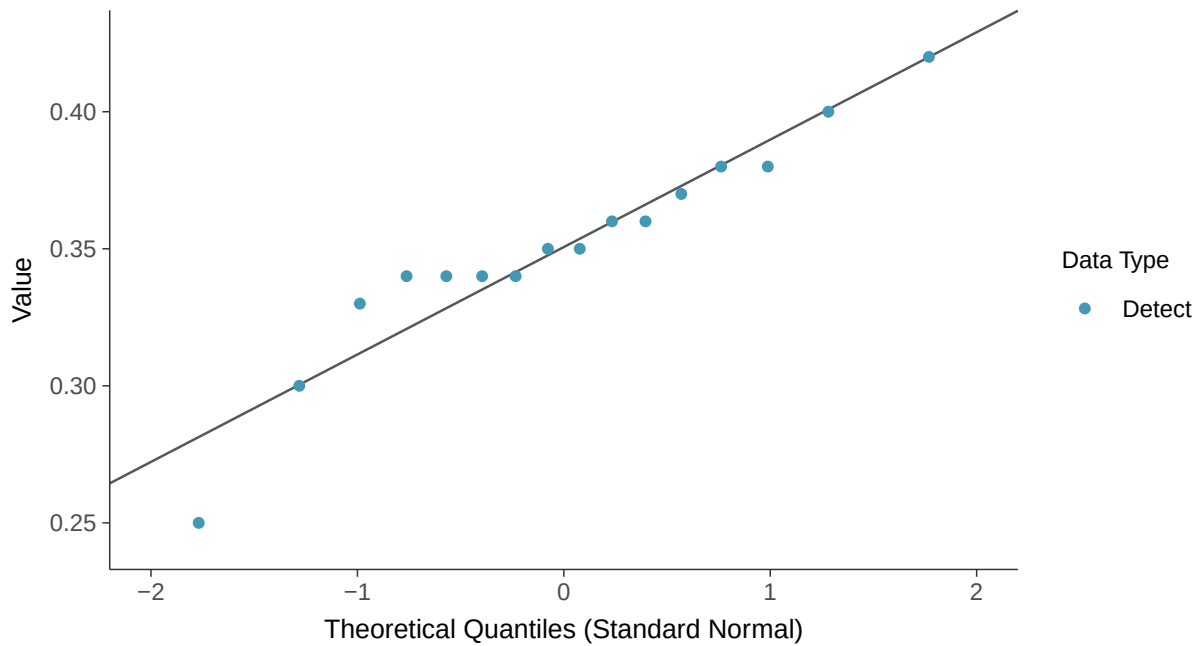
Boxplot by Season

Barium, MW-07 (mg/L)



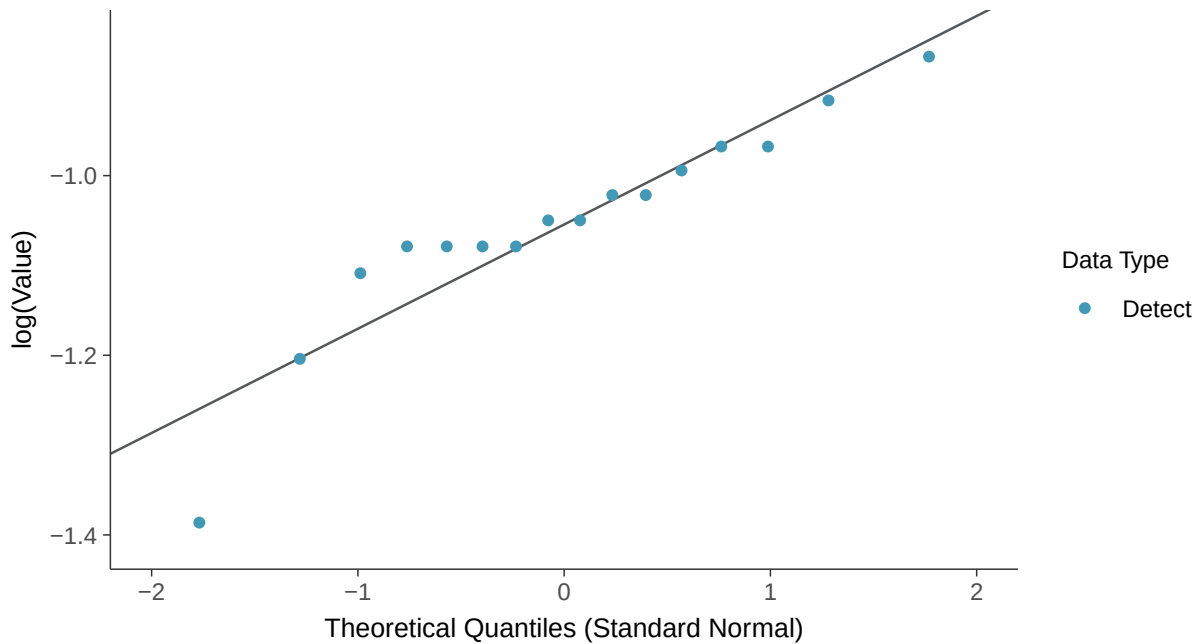
Normal Q-Q plot

Barium, MW-07 (mg/L)



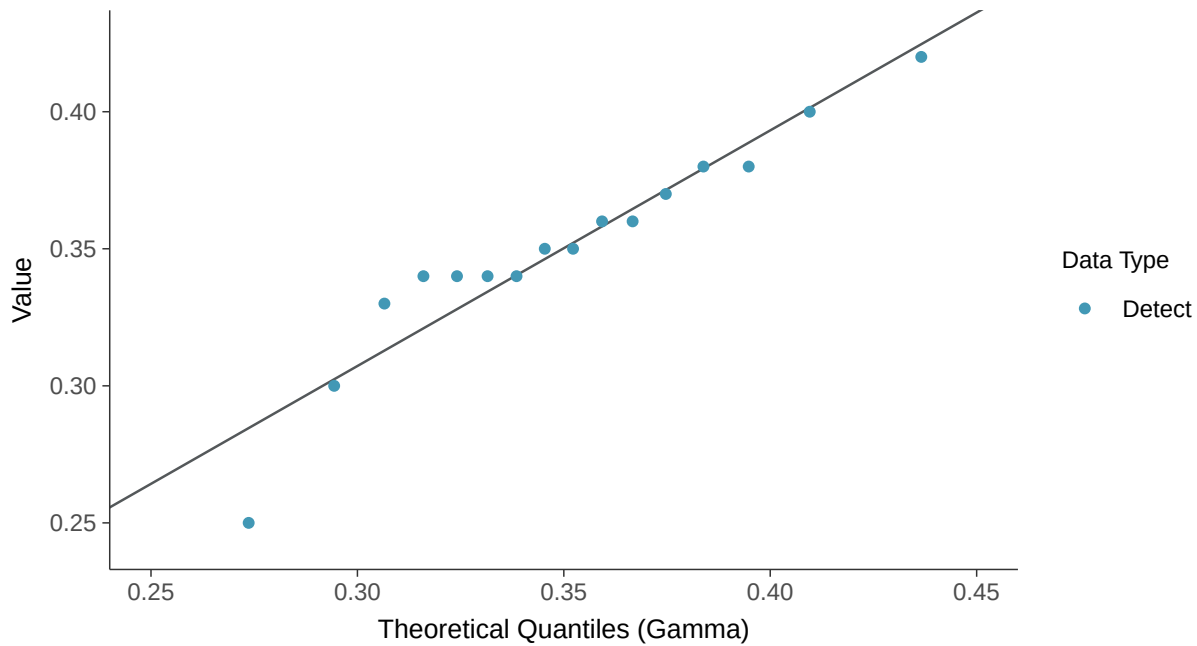
Lognormal Q-Q plot

Barium, MW-07 (mg/L)



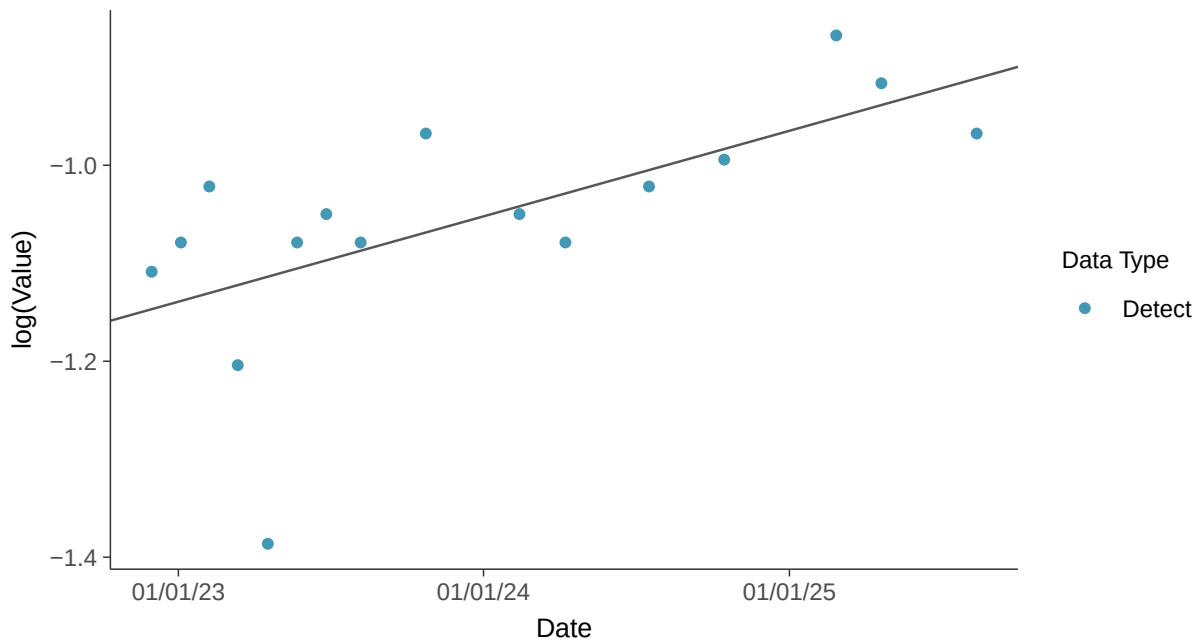
Gamma Q-Q plot

Barium, MW-07 (mg/L)



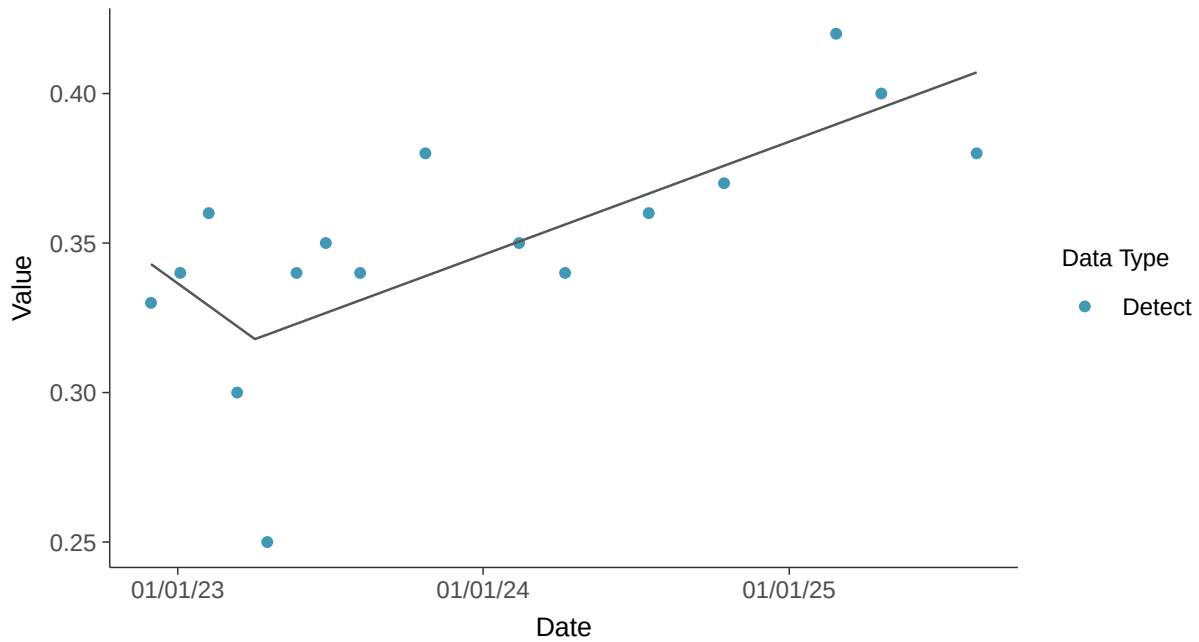
Trend Regression: Lognormal MLE

Barium, MW-07 (mg/L)



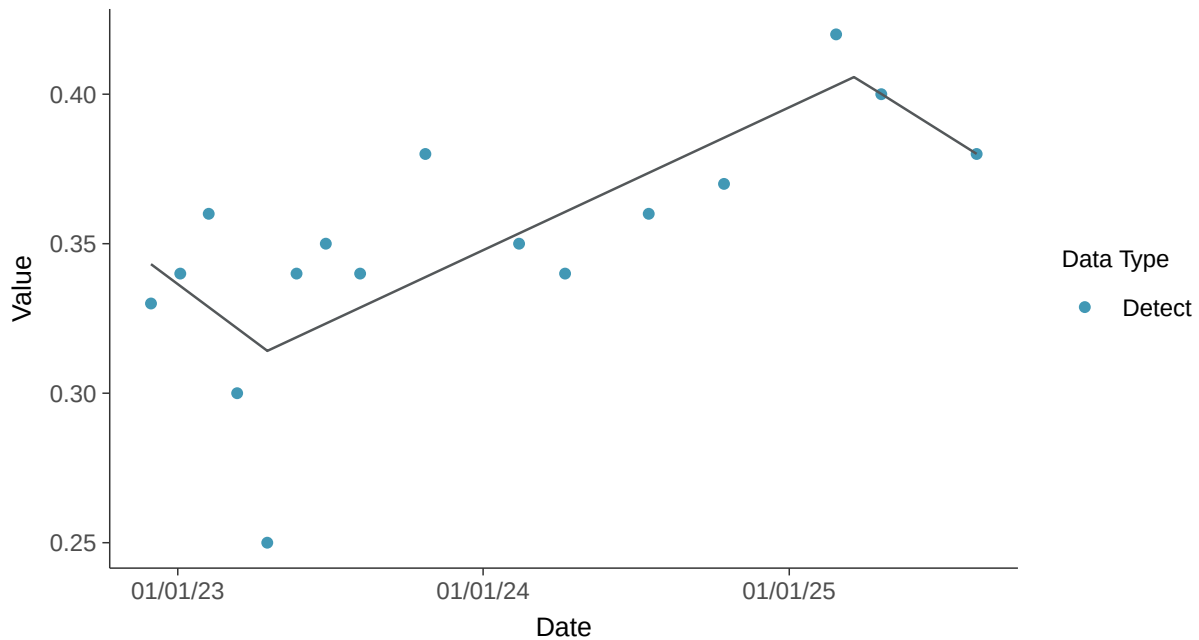
Trend Regression: Piecewise Linear-Linear

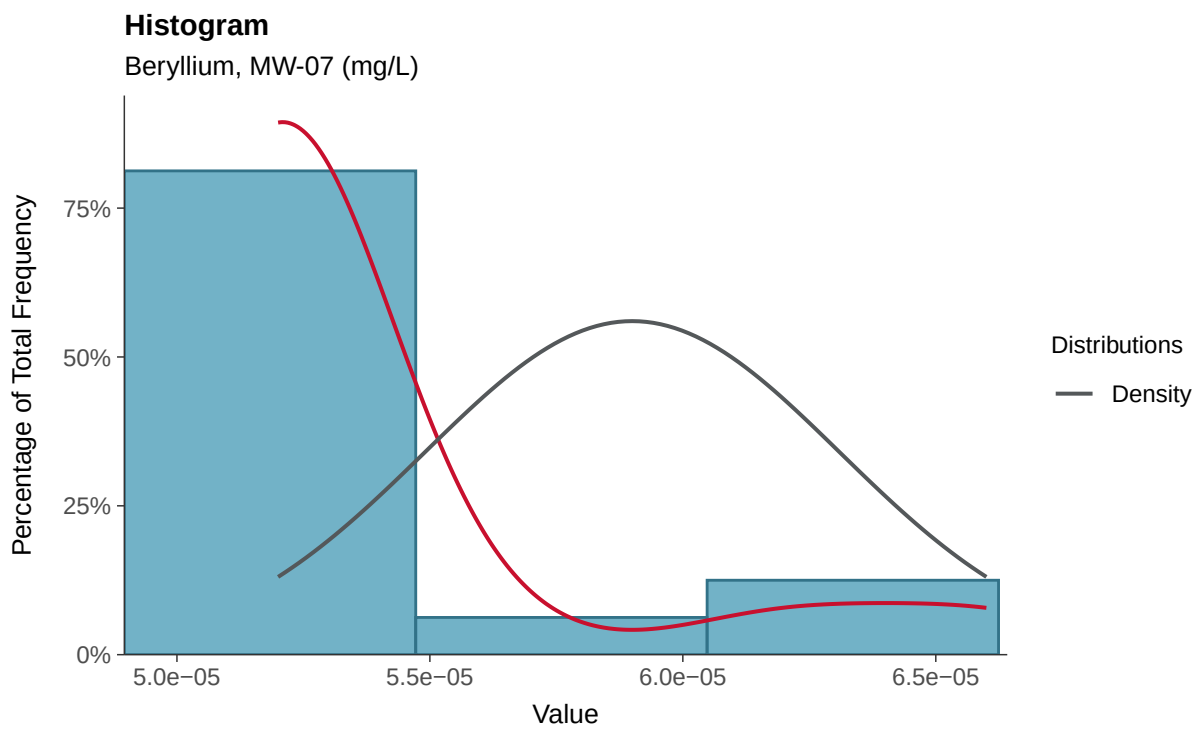
Barium, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

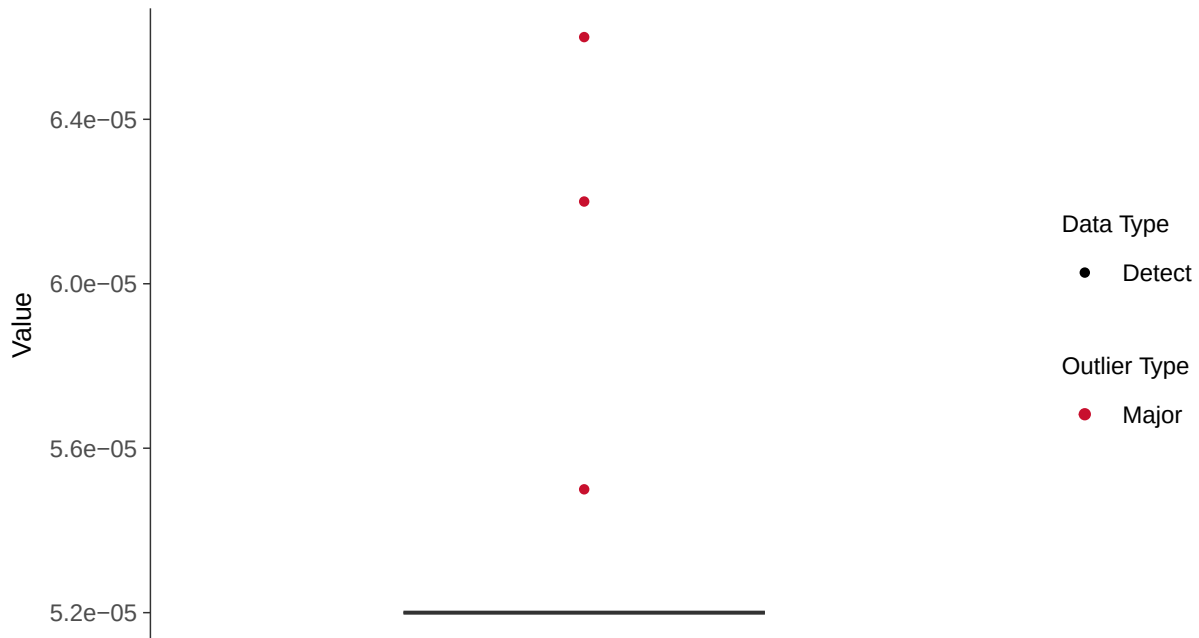
Barium, MW-07 (mg/L)





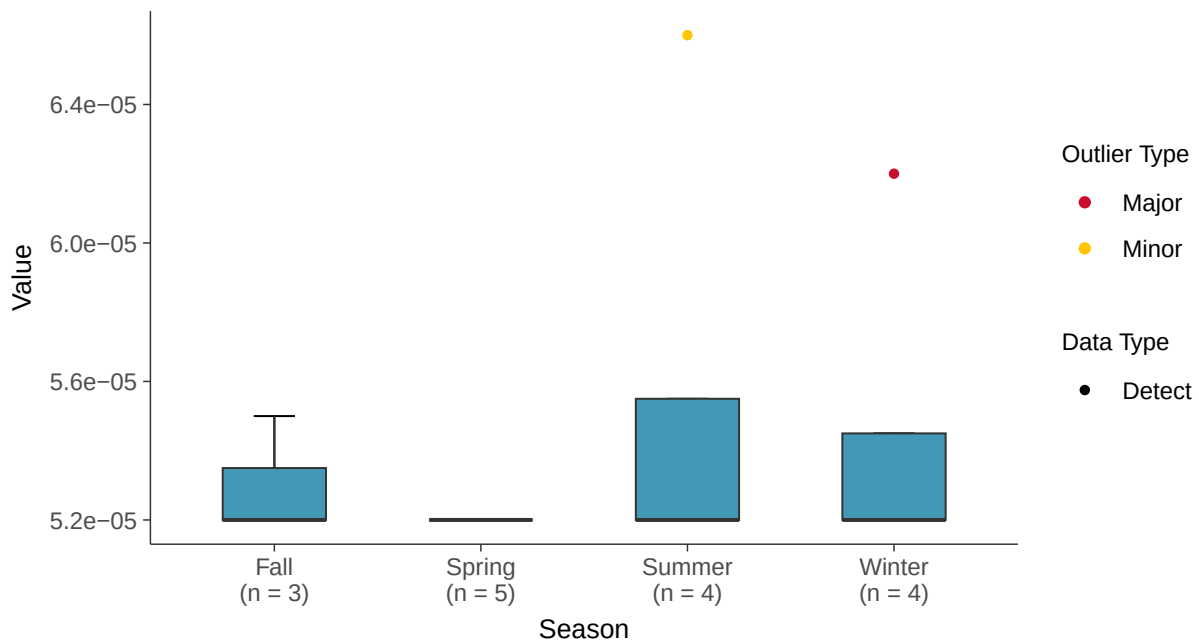
Boxplot

Beryllium, MW-07 (mg/L)

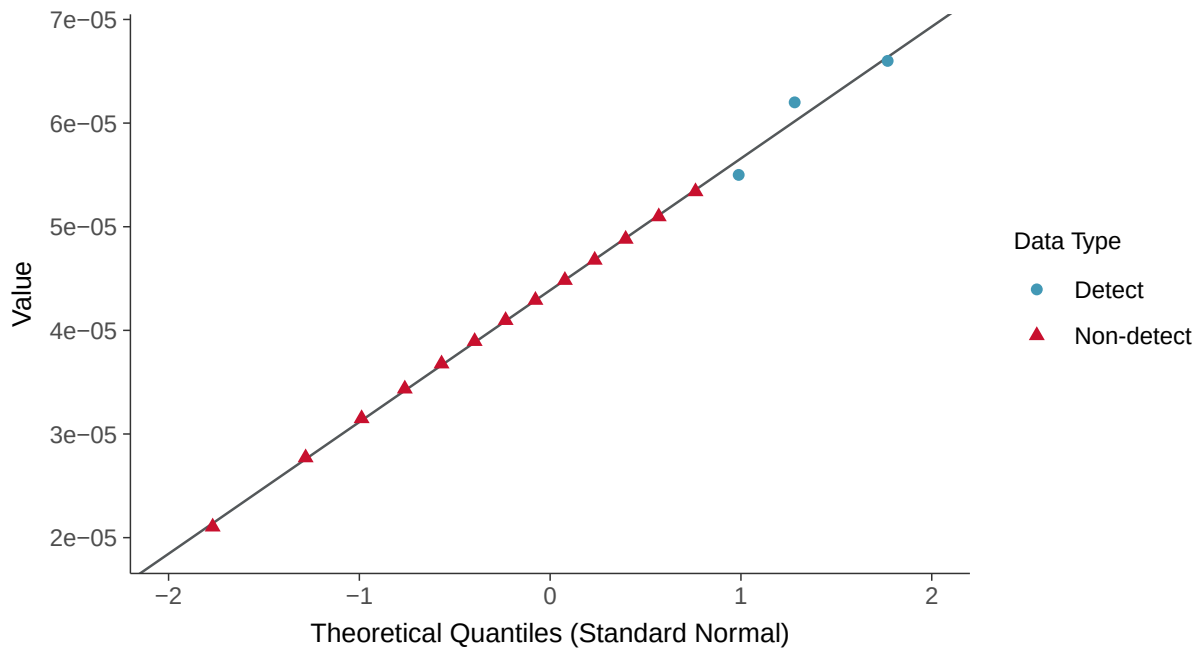


Boxplot by Season

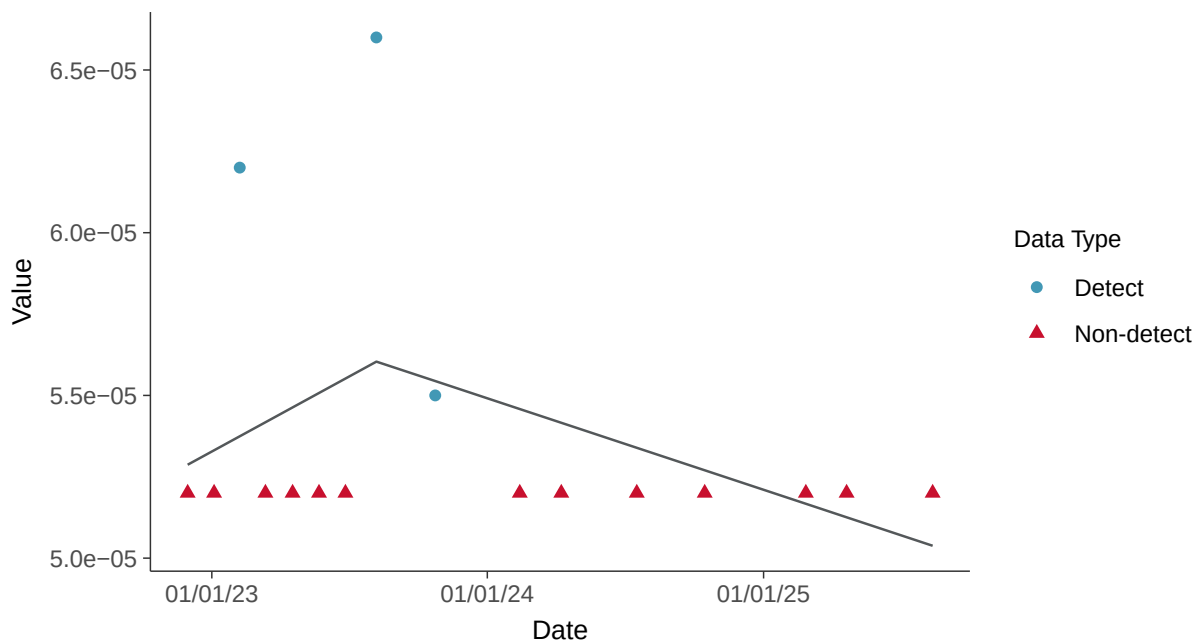
Beryllium, MW-07 (mg/L)



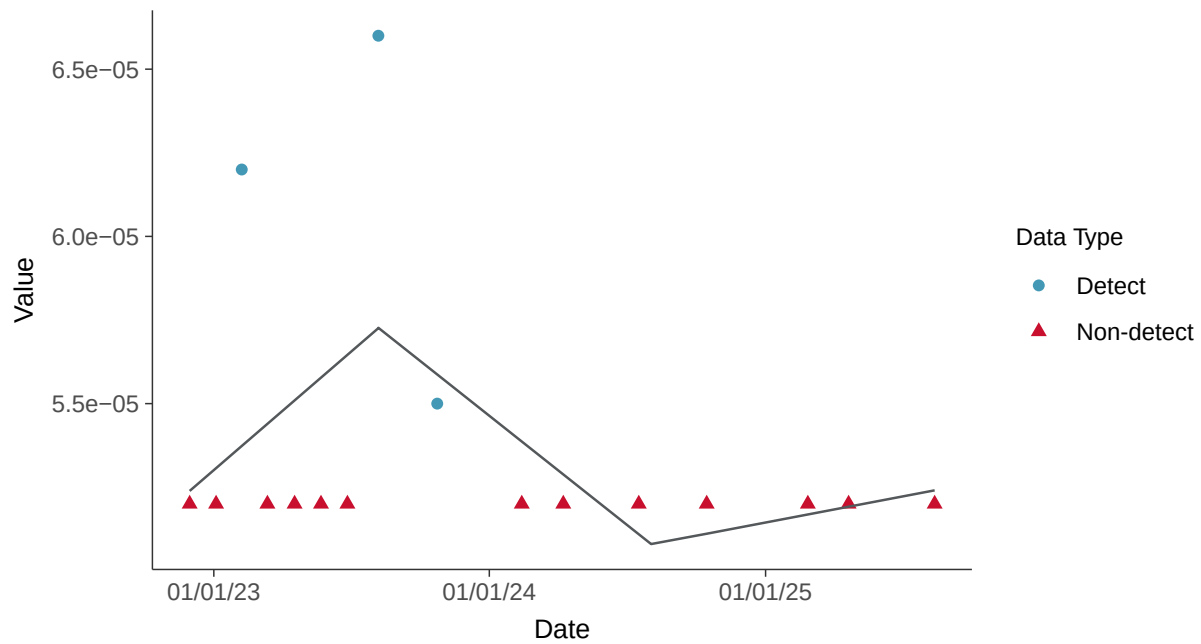
Beryllium, MW-07 (mg/L)



Beryllium, MW-07 (mg/L)

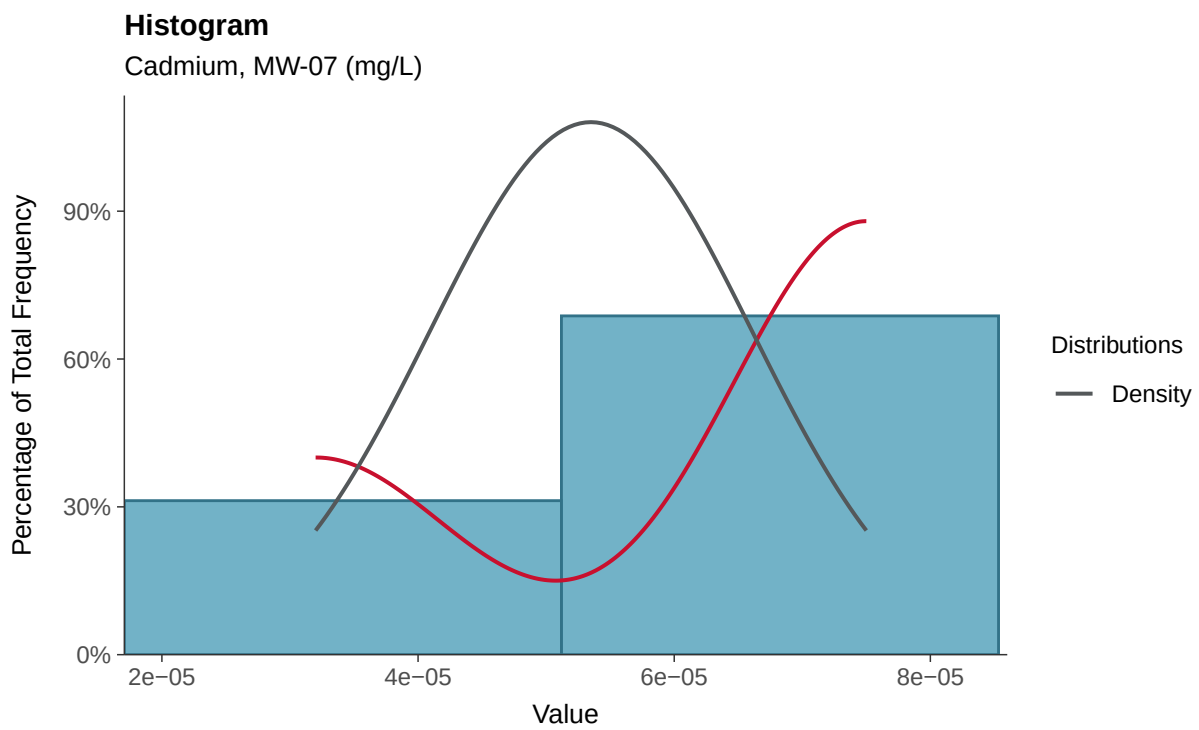
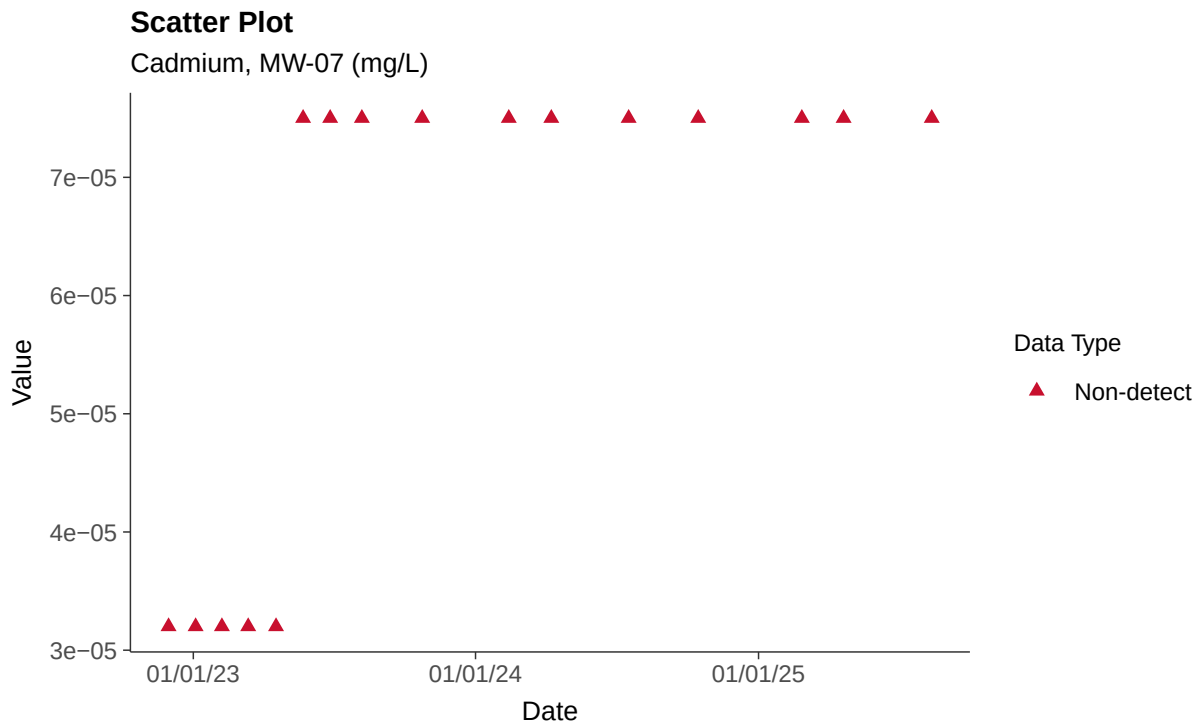


Beryllium, MW-07 (mg/L)



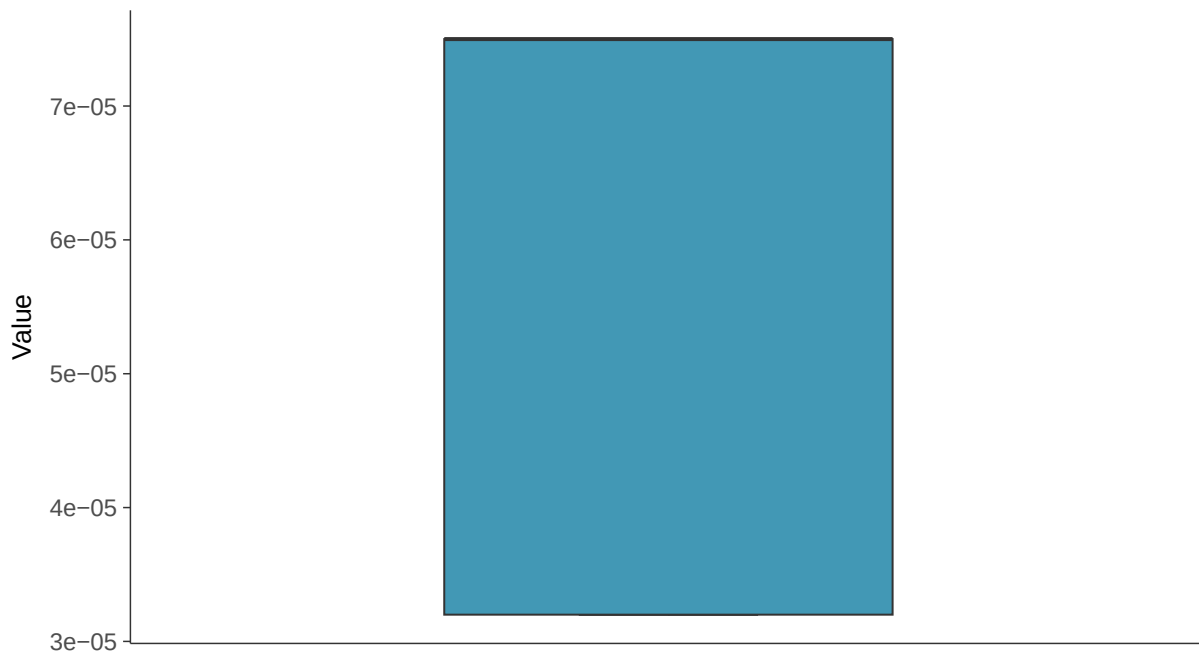
Appendix IV: Cadmium, MW-07

ID: 17_1_4_106



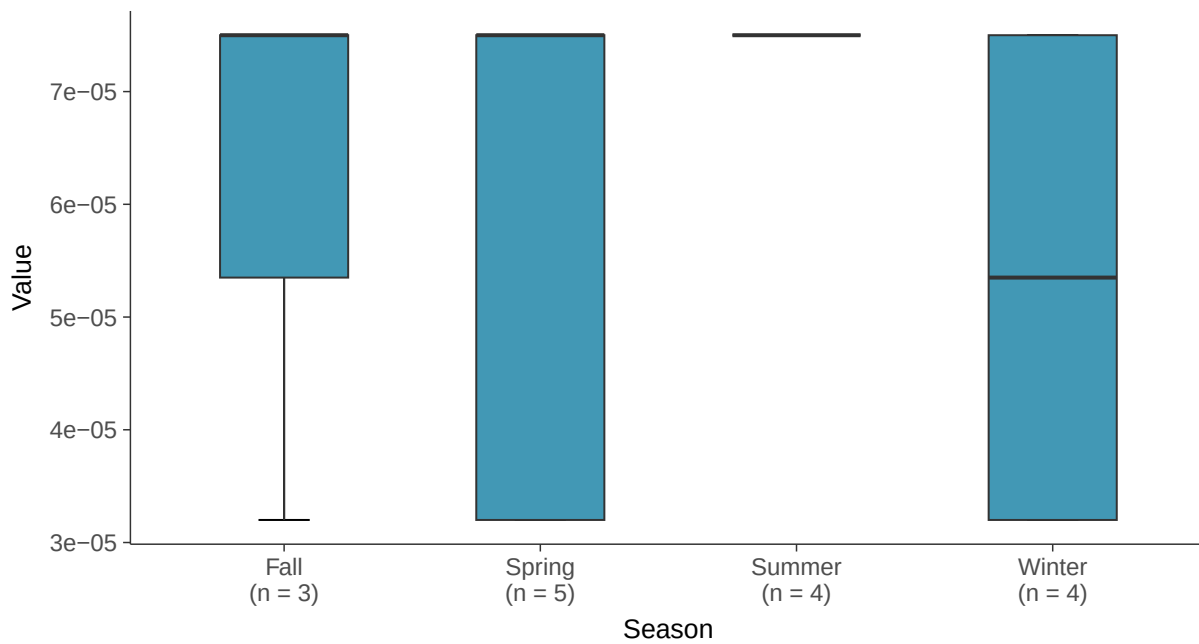
Boxplot

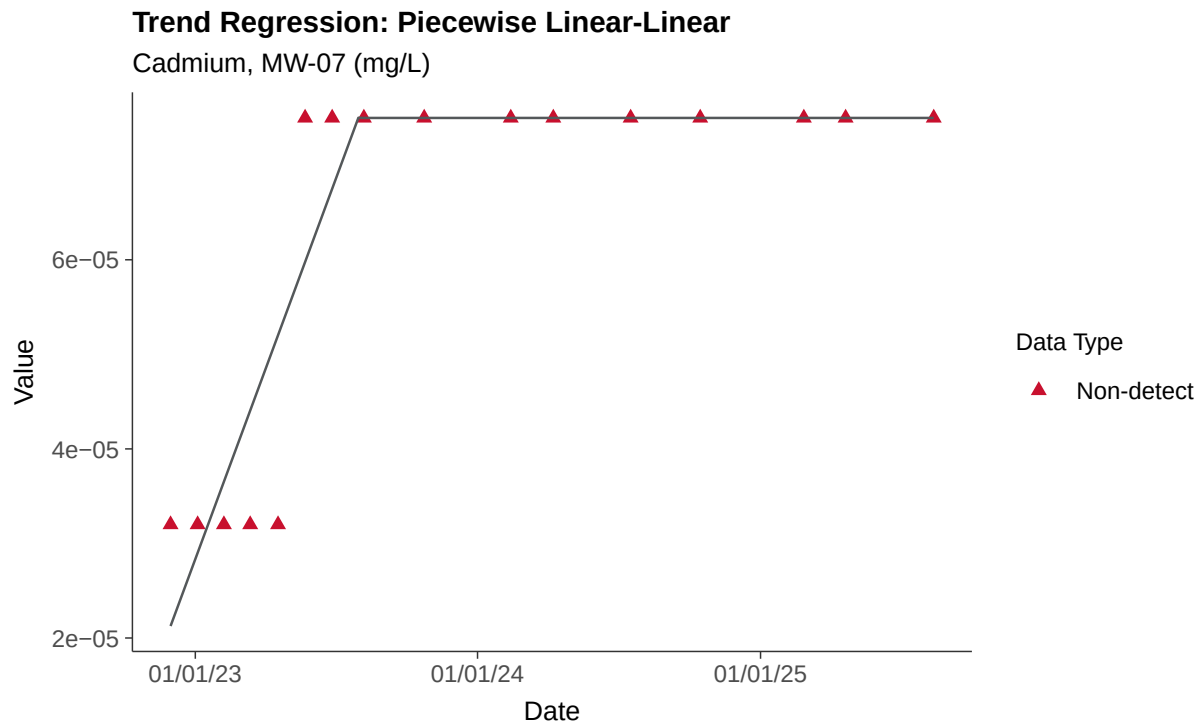
Cadmium, MW-07 (mg/L)



Boxplot by Season

Cadmium, MW-07 (mg/L)



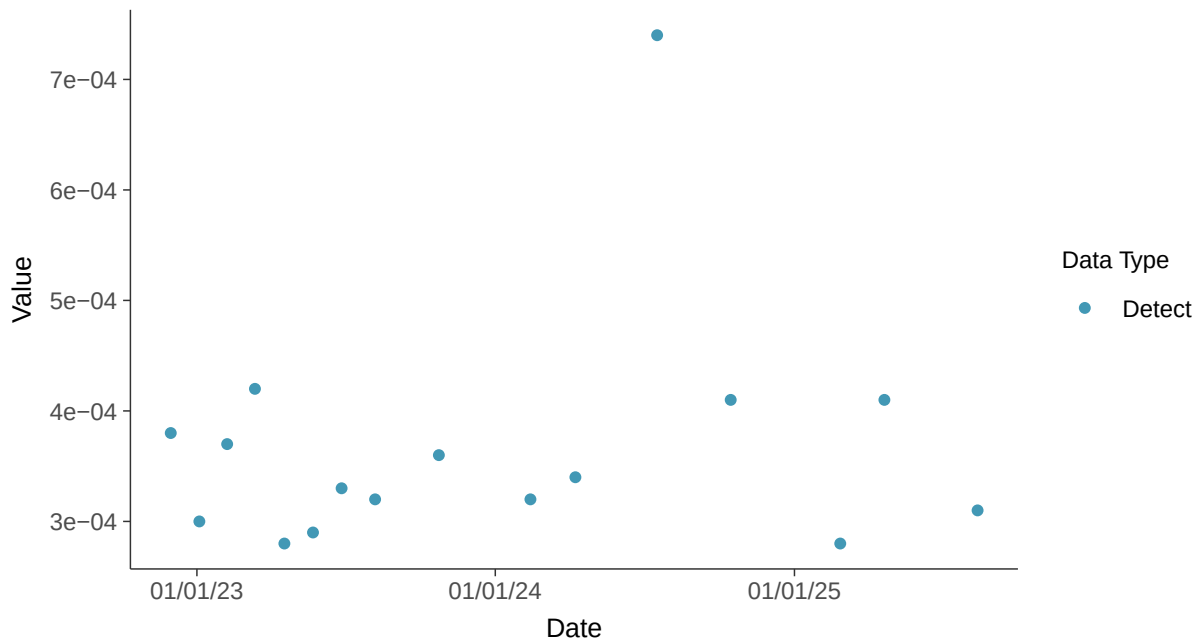


Appendix IV: Chromium, Total, MW-07

ID: 17_1_4_109

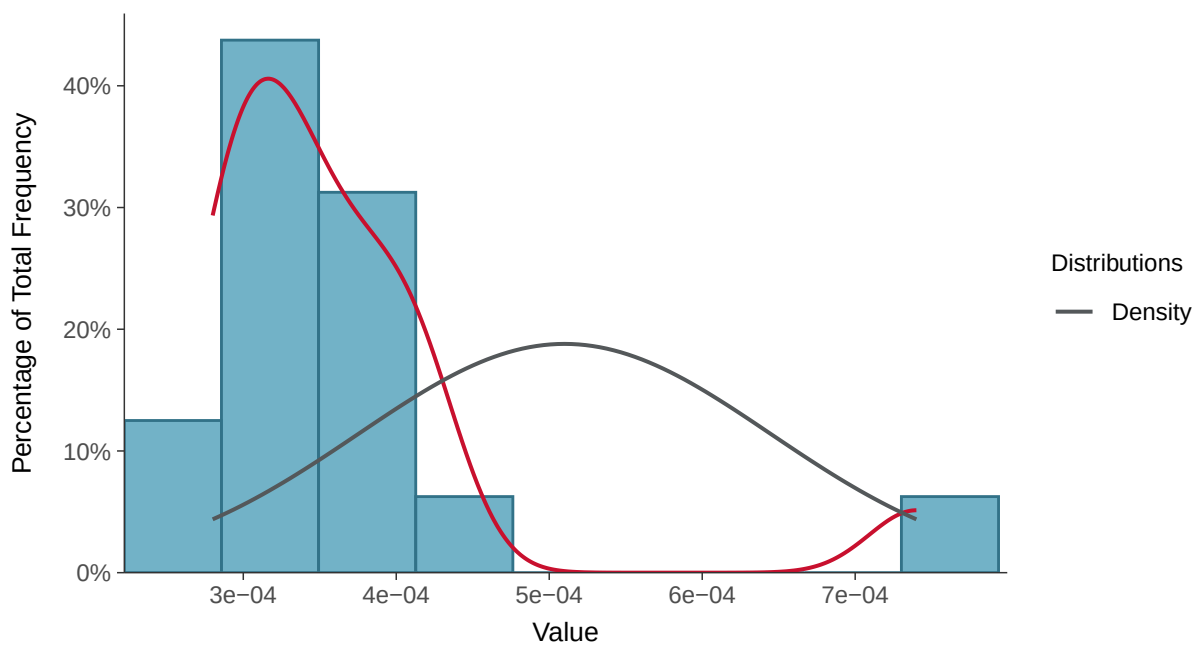
Scatter Plot

Chromium, Total, MW-07 (mg/L)



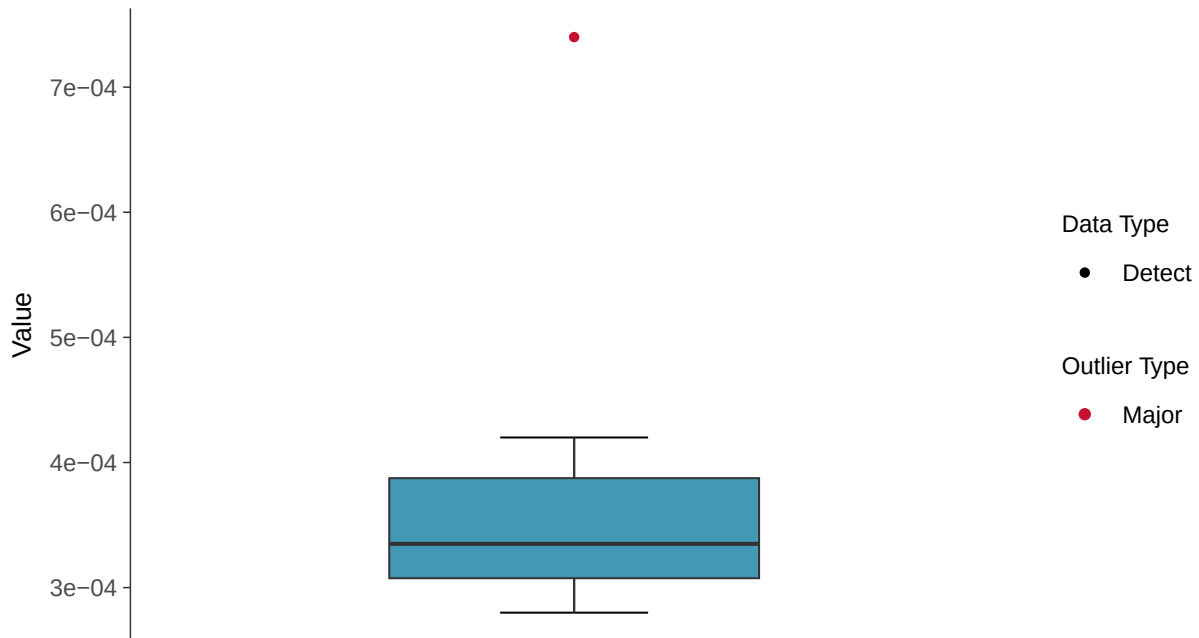
Histogram

Chromium, Total, MW-07 (mg/L)



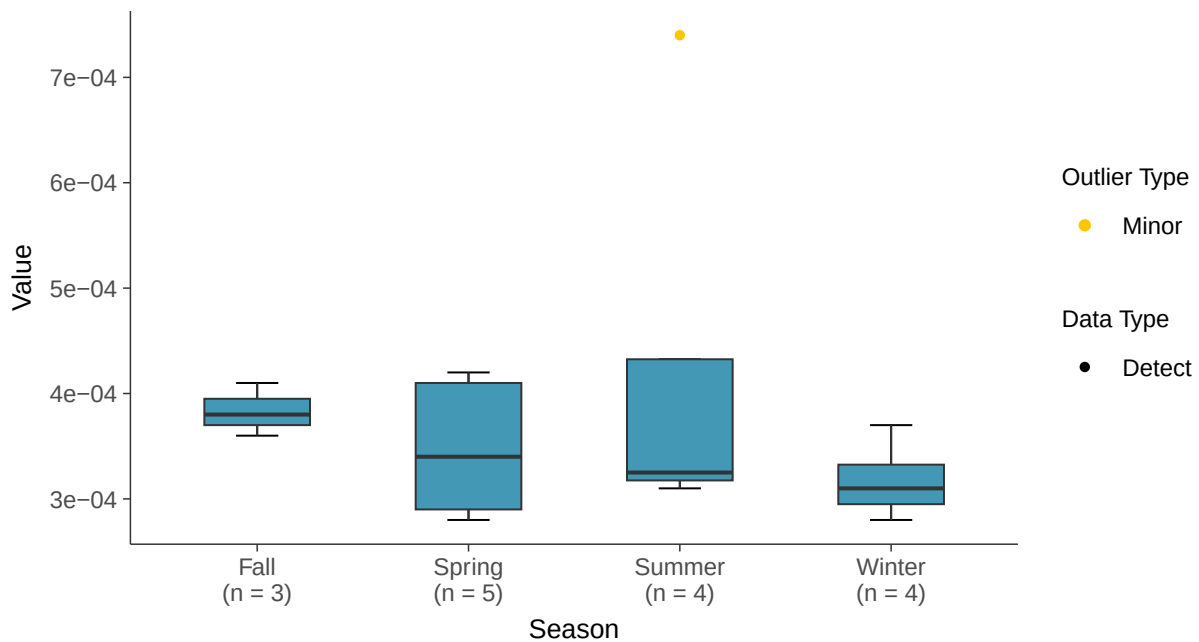
Boxplot

Chromium, Total, MW-07 (mg/L)



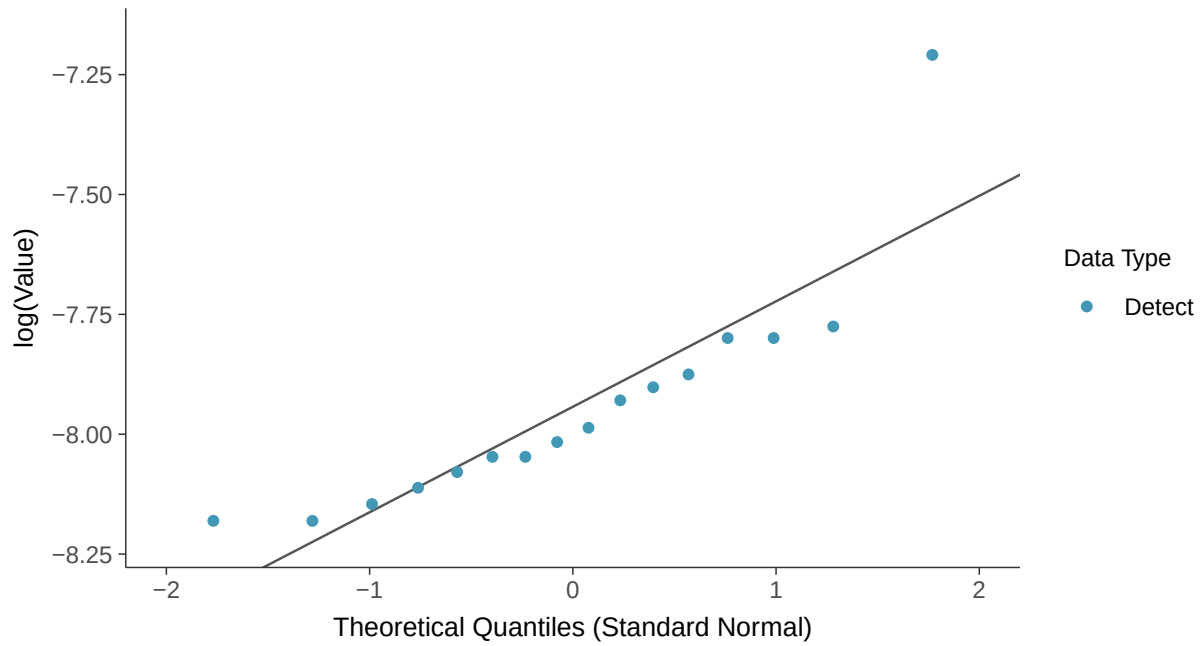
Boxplot by Season

Chromium, Total, MW-07 (mg/L)



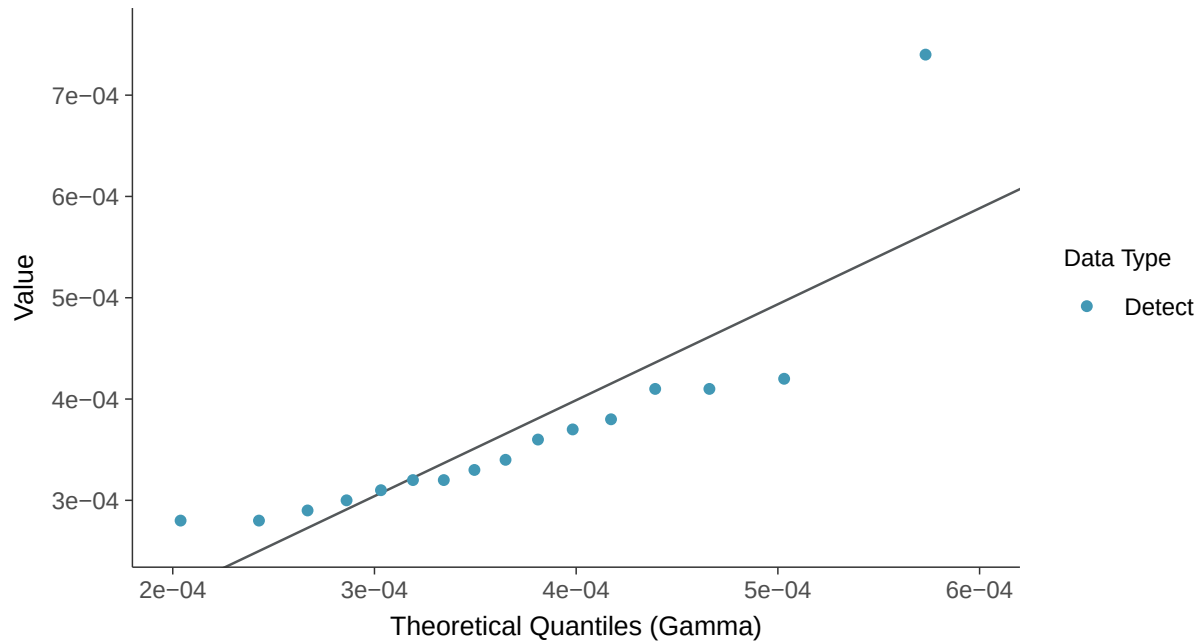
Lognormal Q-Q plot

Chromium, Total, MW-07 (mg/L)



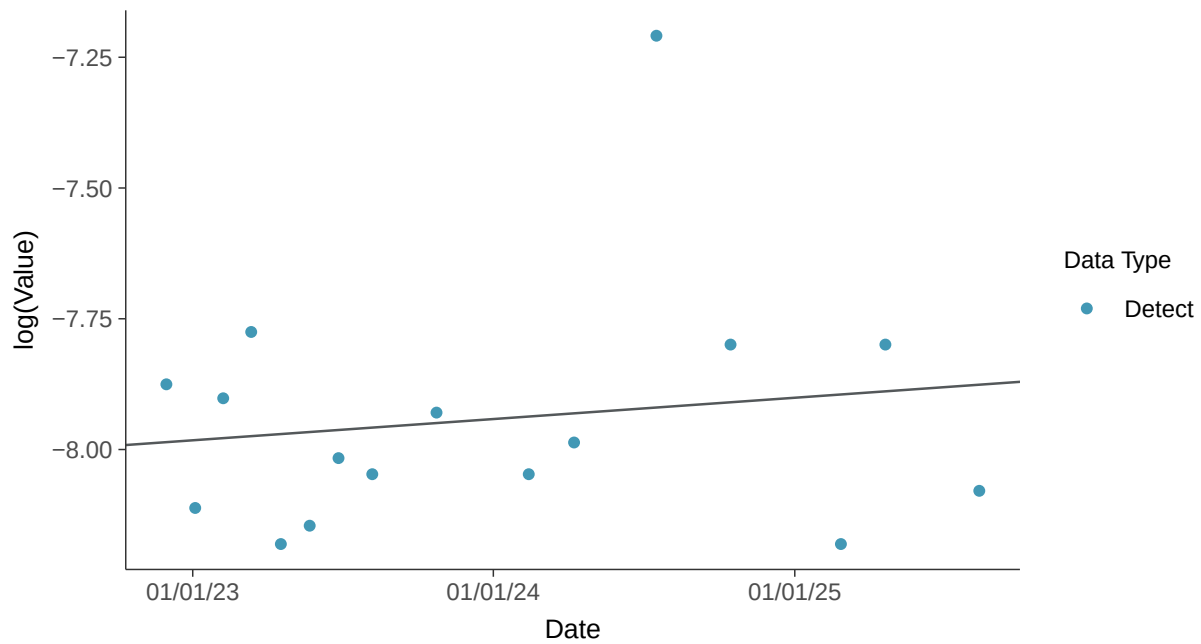
Gamma Q-Q plot

Chromium, Total, MW-07 (mg/L)



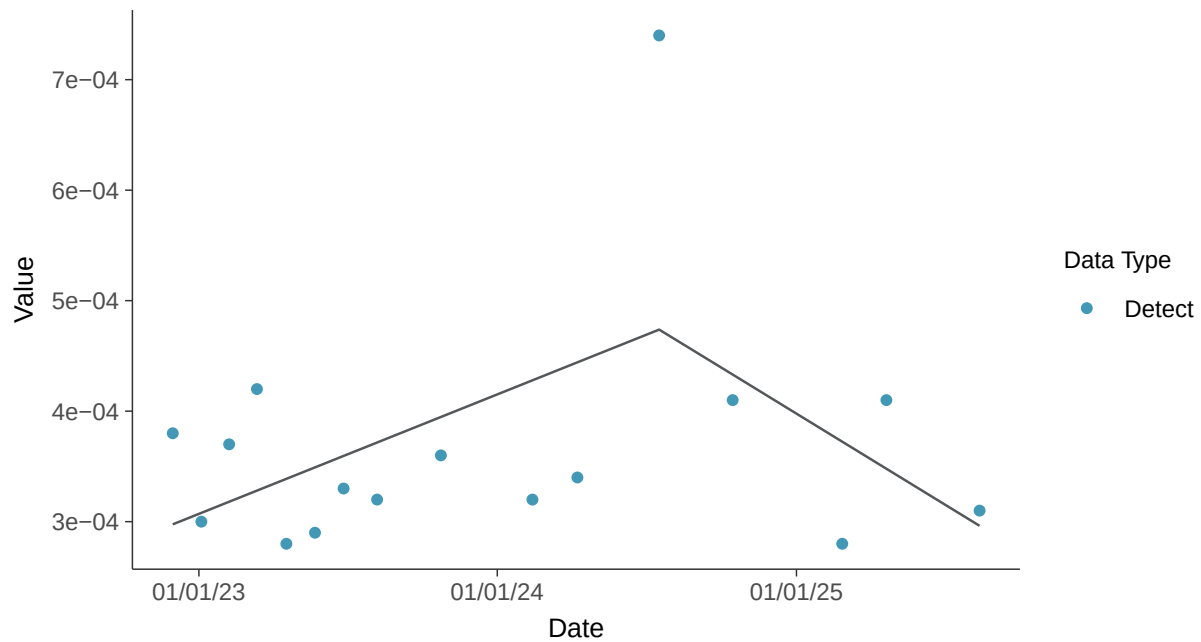
Trend Regression: Lognormal MLE

Chromium, Total, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear

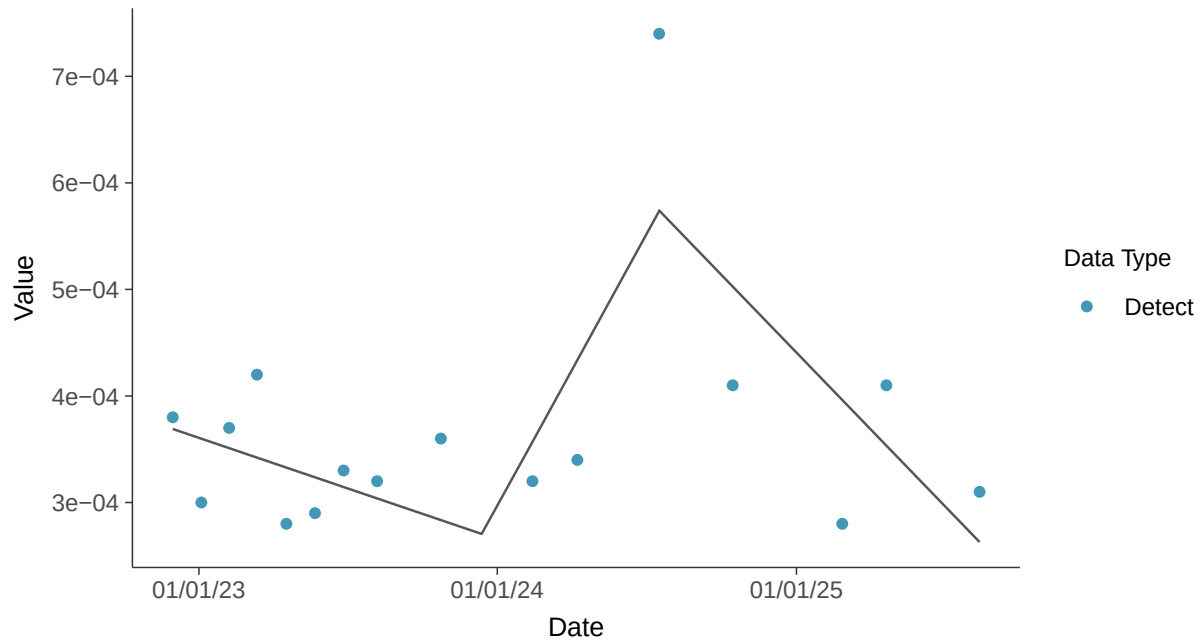
Chromium, Total, MW-07 (mg/L)





Trend Regression: Piecewise Linear-Linear-Linear

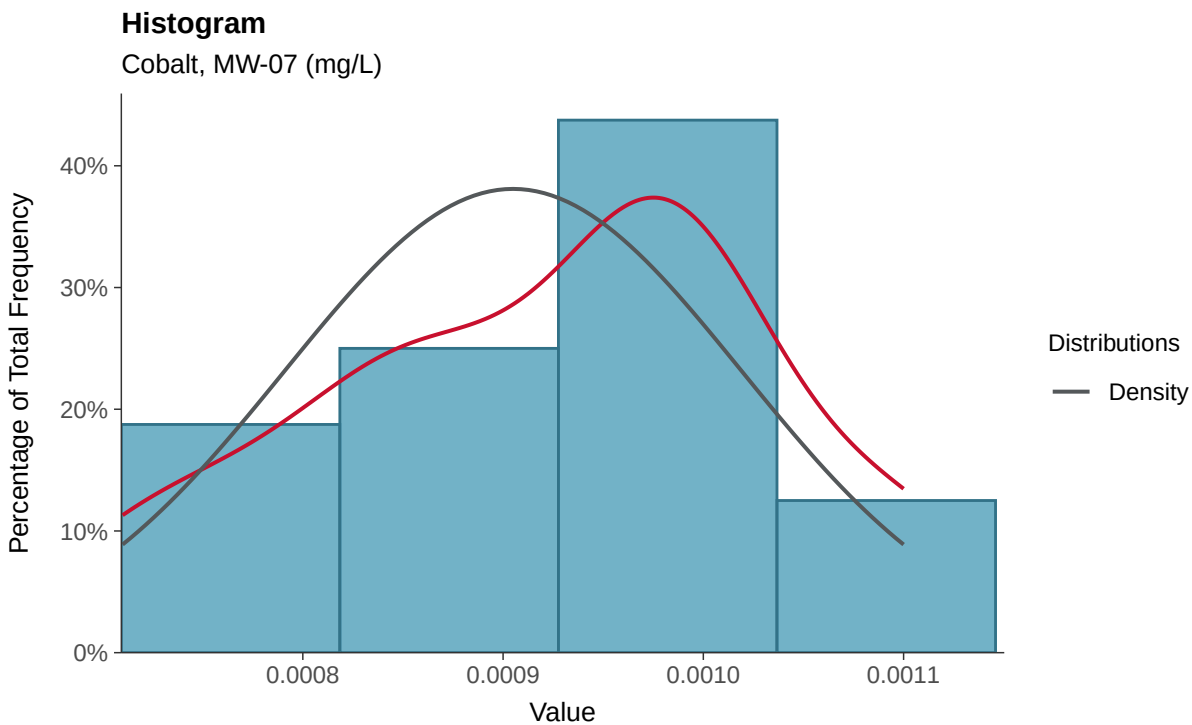
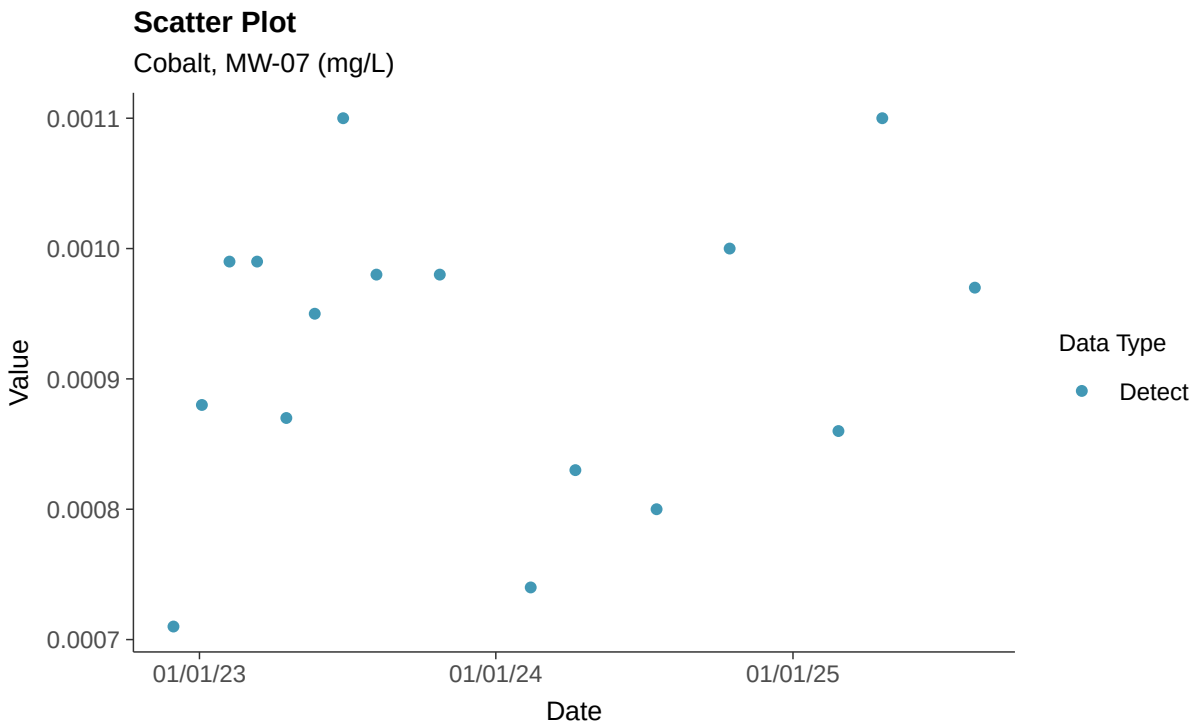
Chromium, Total, MW-07 (mg/L)





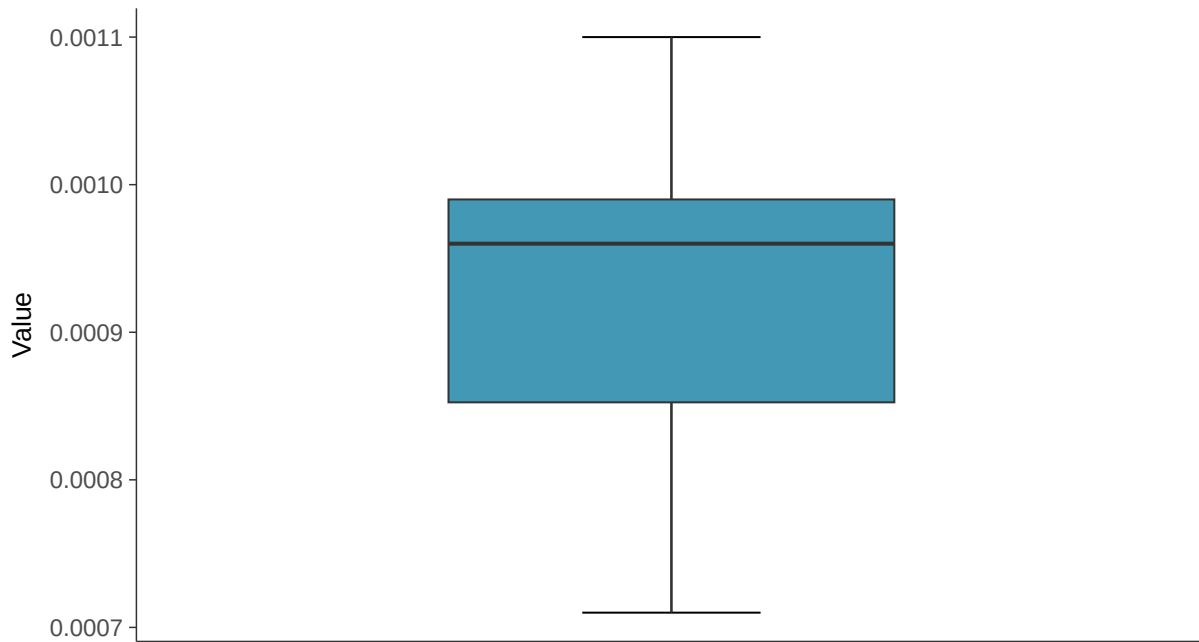
Appendix IV: Cobalt, MW-07

ID: 17_1_4_110



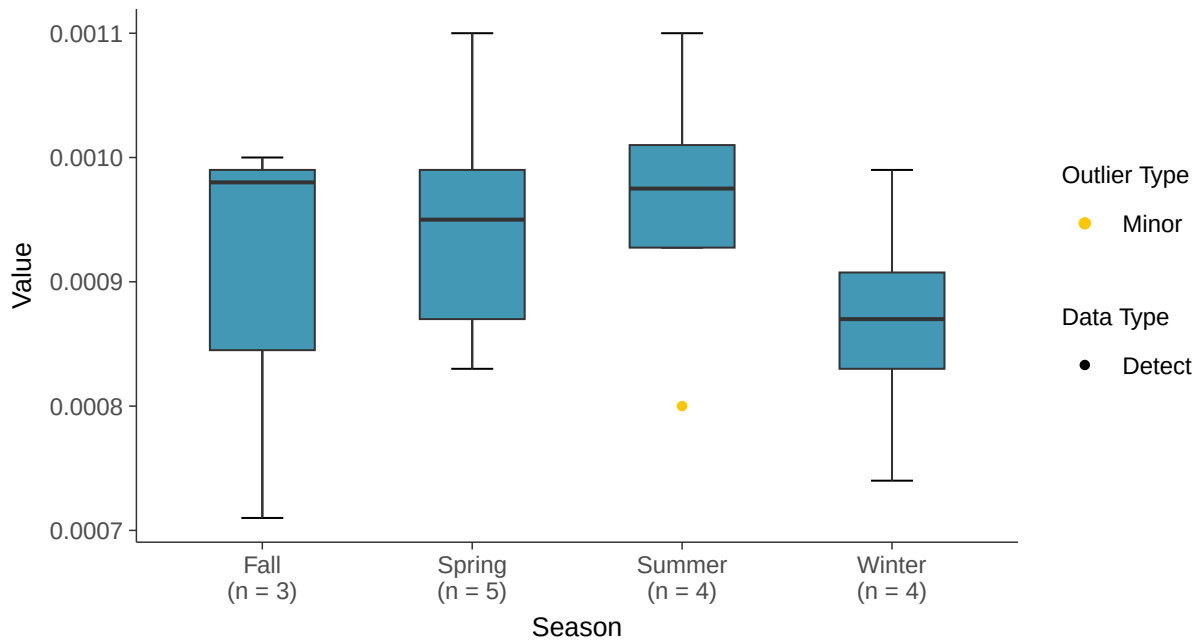
Boxplot

Cobalt, MW-07 (mg/L)

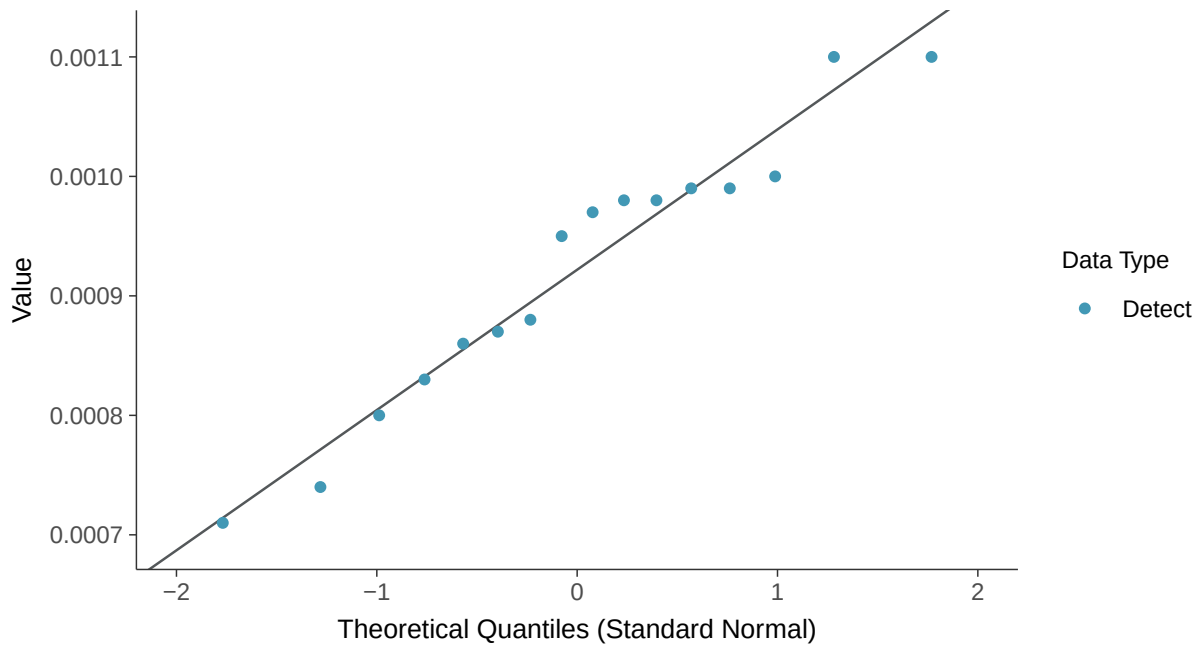


Boxplot by Season

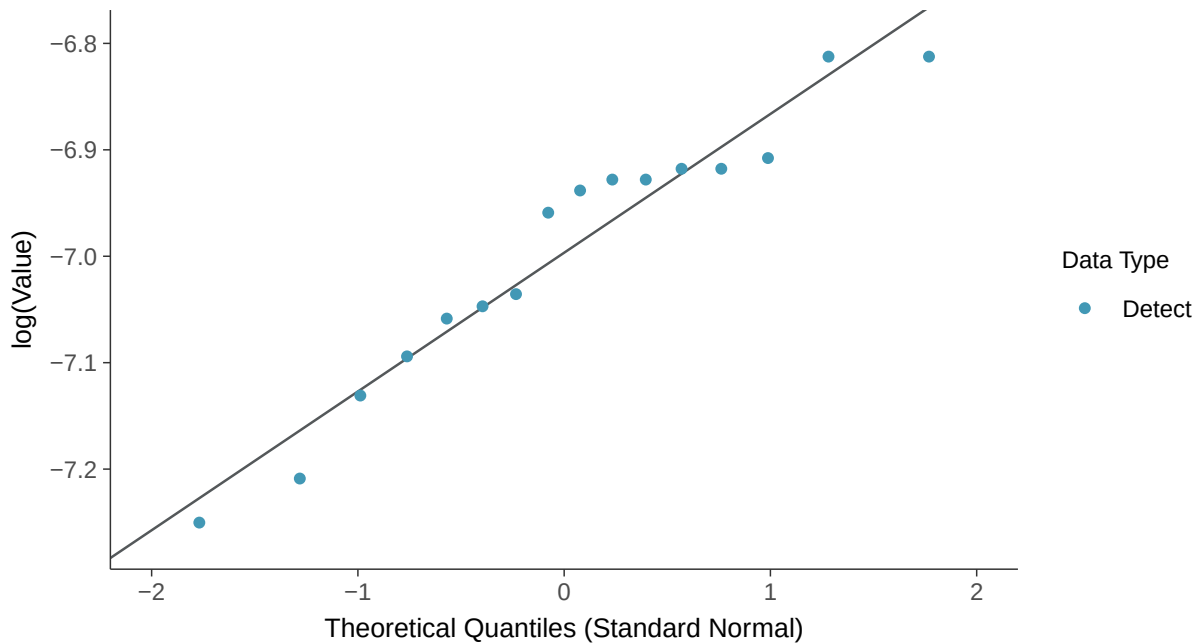
Cobalt, MW-07 (mg/L)

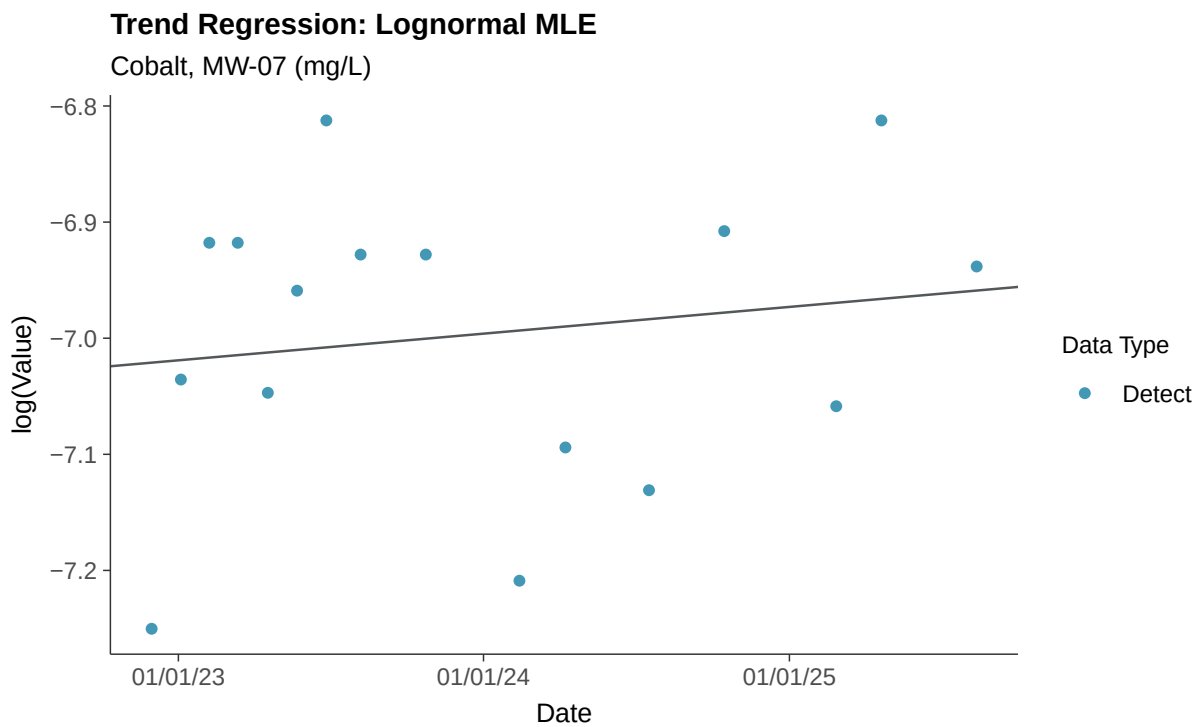
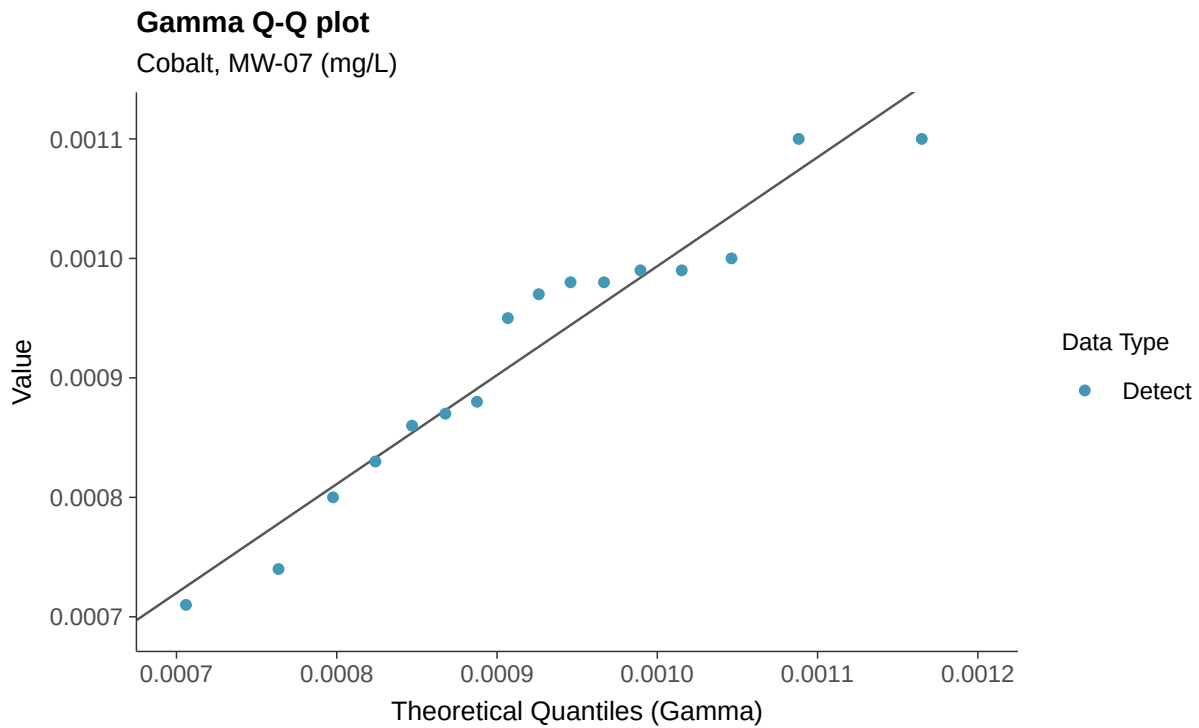


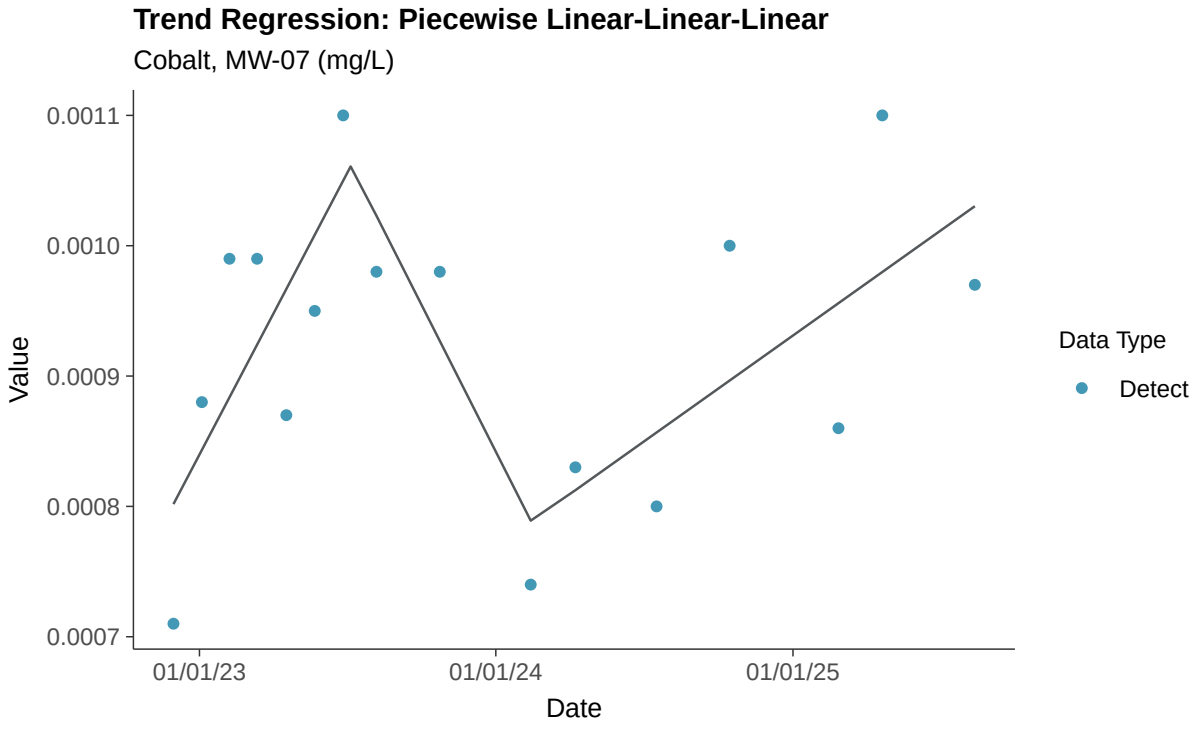
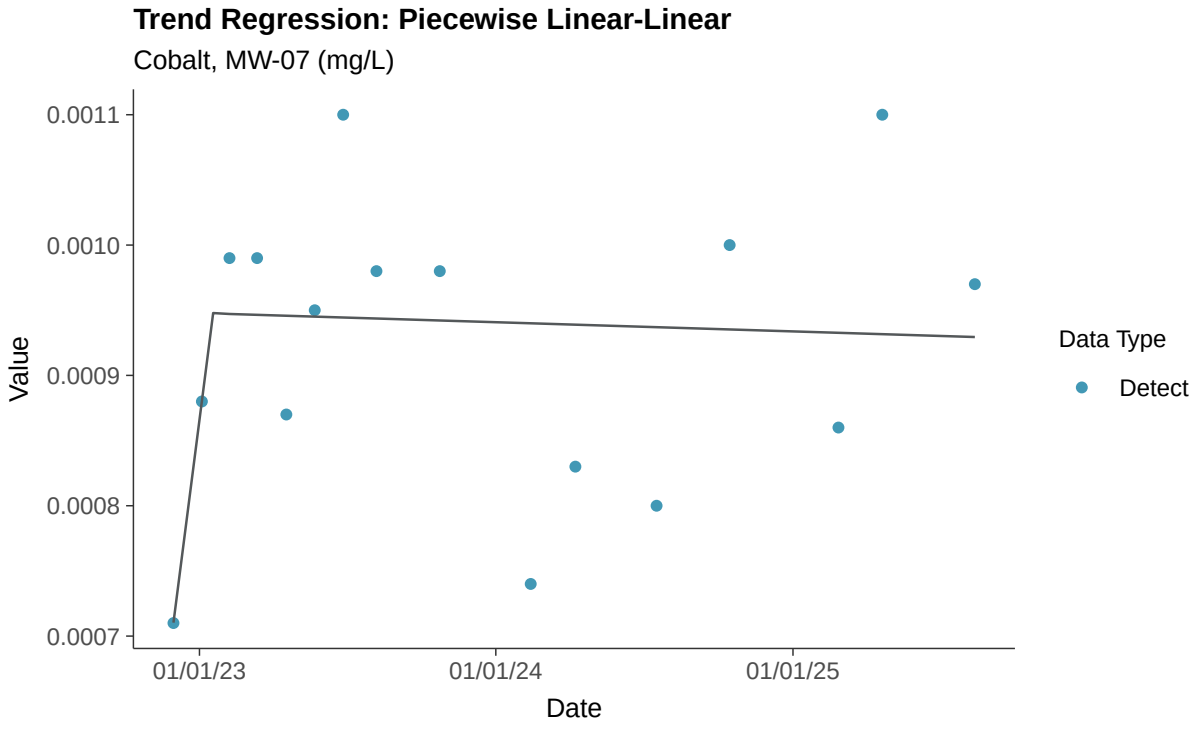
Normal Q-Q plot
Cobalt, MW-07 (mg/L)



Lognormal Q-Q plot
Cobalt, MW-07 (mg/L)





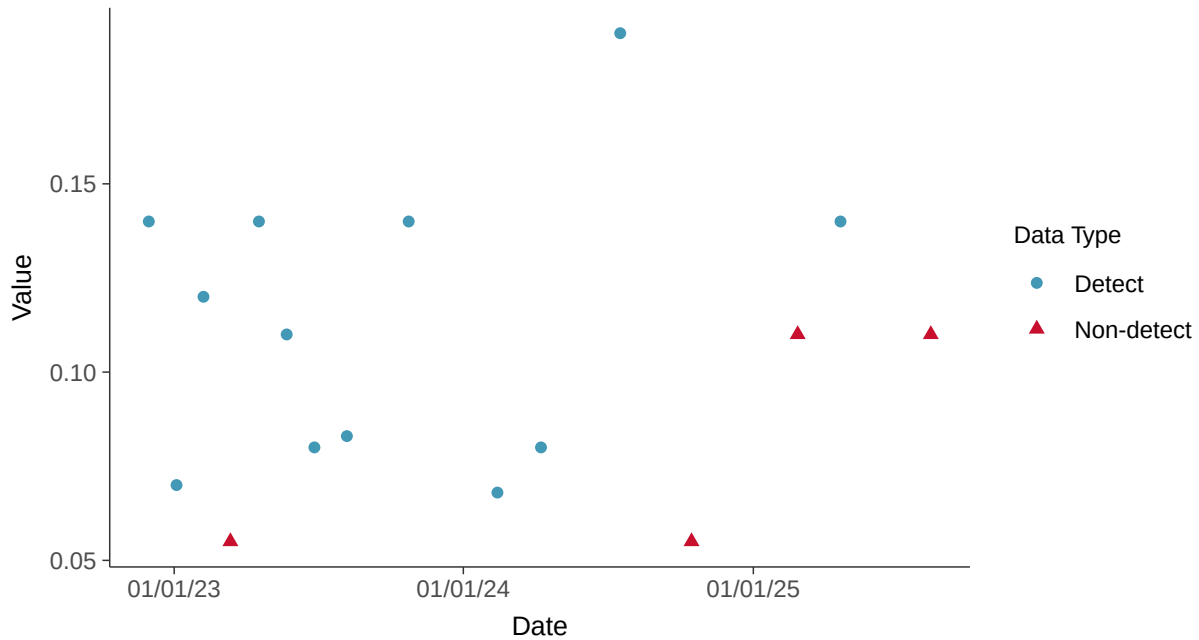


Appendix IV: Fluoride (App IV), MW-07

ID: 17_1_4_113

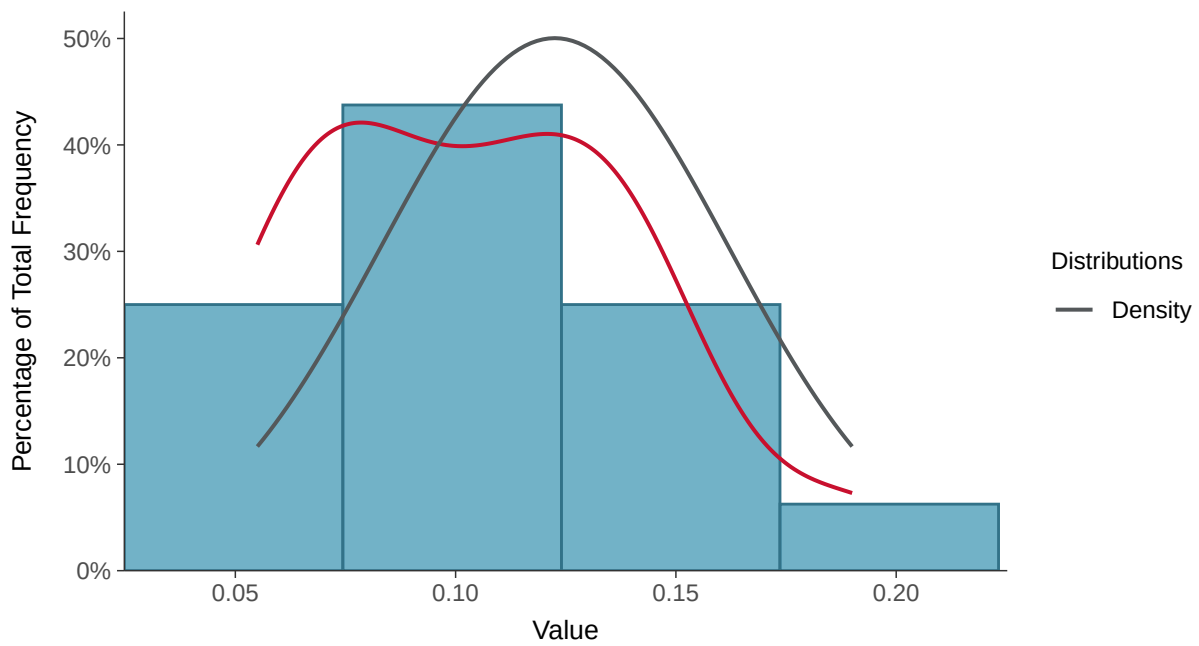
Scatter Plot

Fluoride (App IV), MW-07 (mg/L)



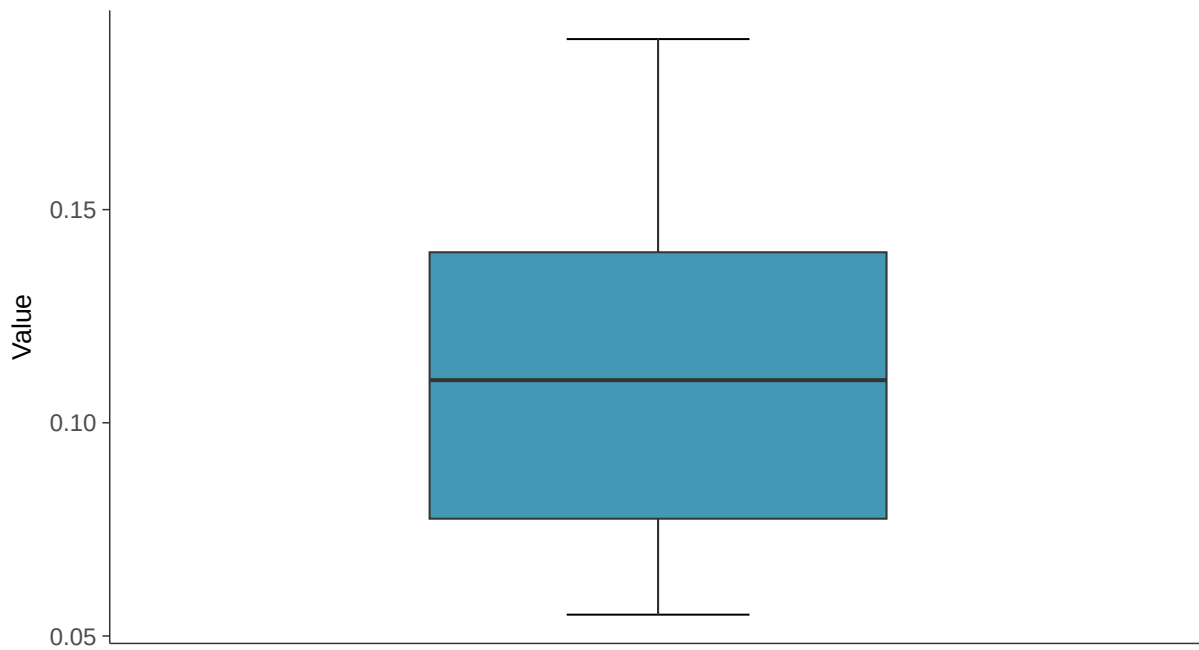
Histogram

Fluoride (App IV), MW-07 (mg/L)



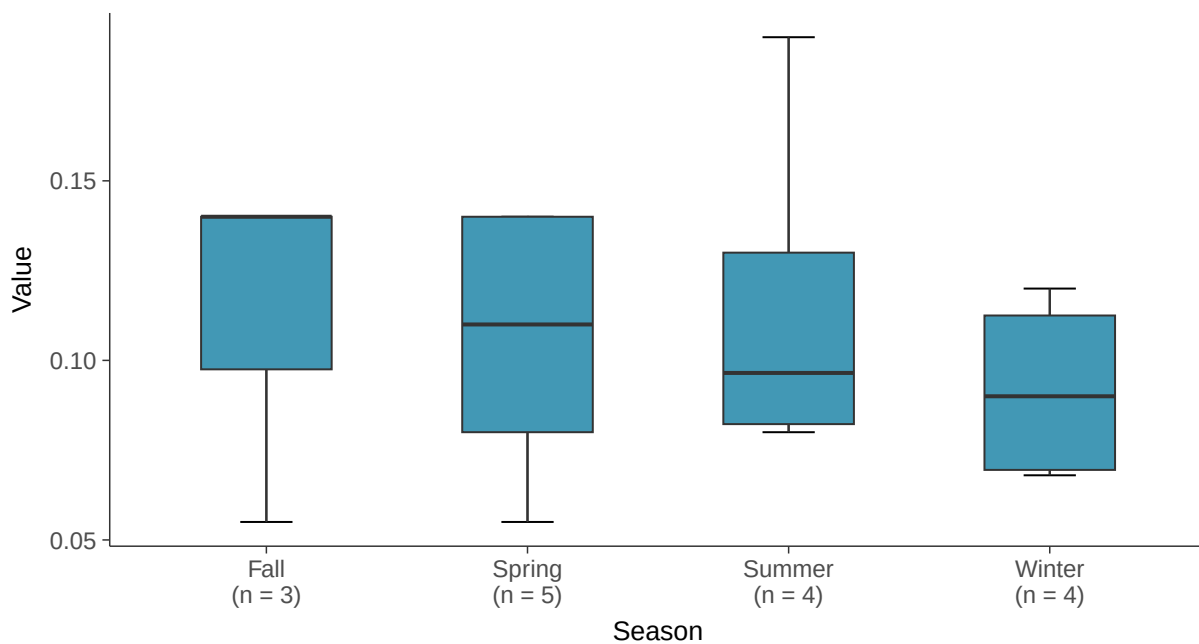
Boxplot

Fluoride (App IV), MW-07 (mg/L)



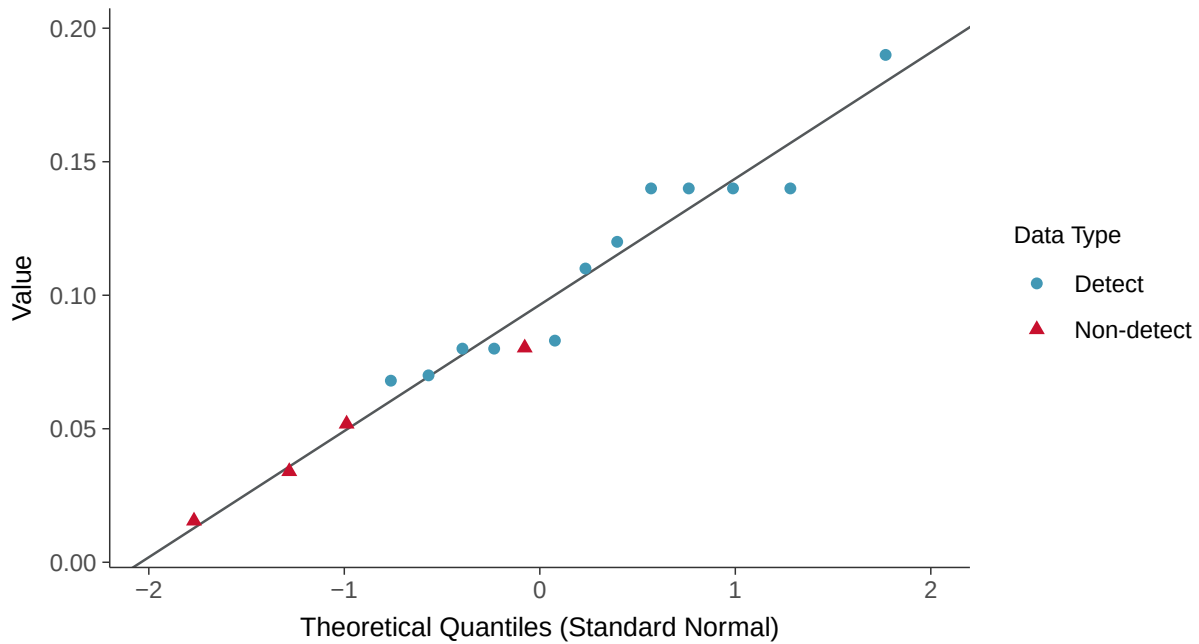
Boxplot by Season

Fluoride (App IV), MW-07 (mg/L)



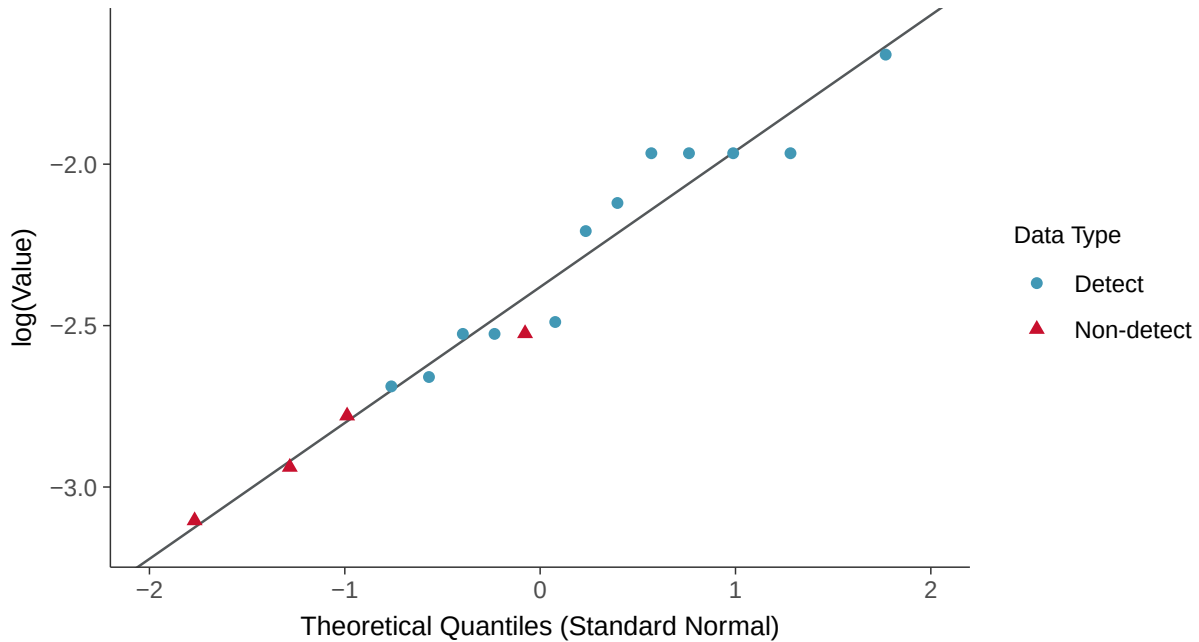
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



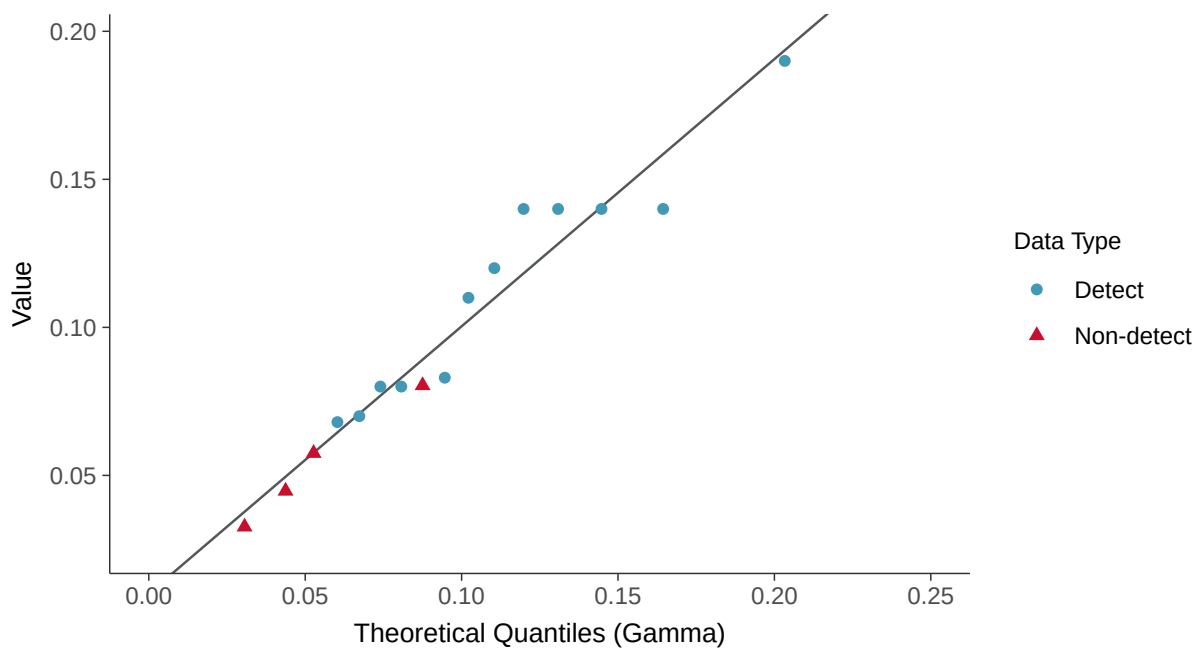
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



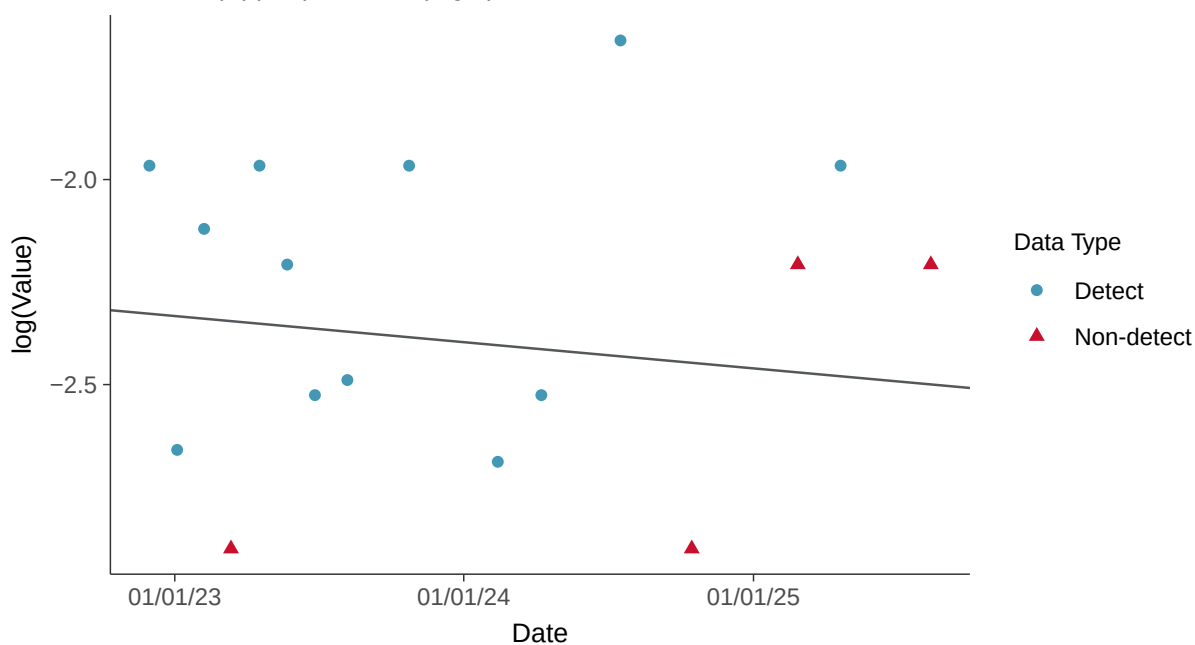
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



Trend Regression: Lognormal MLE

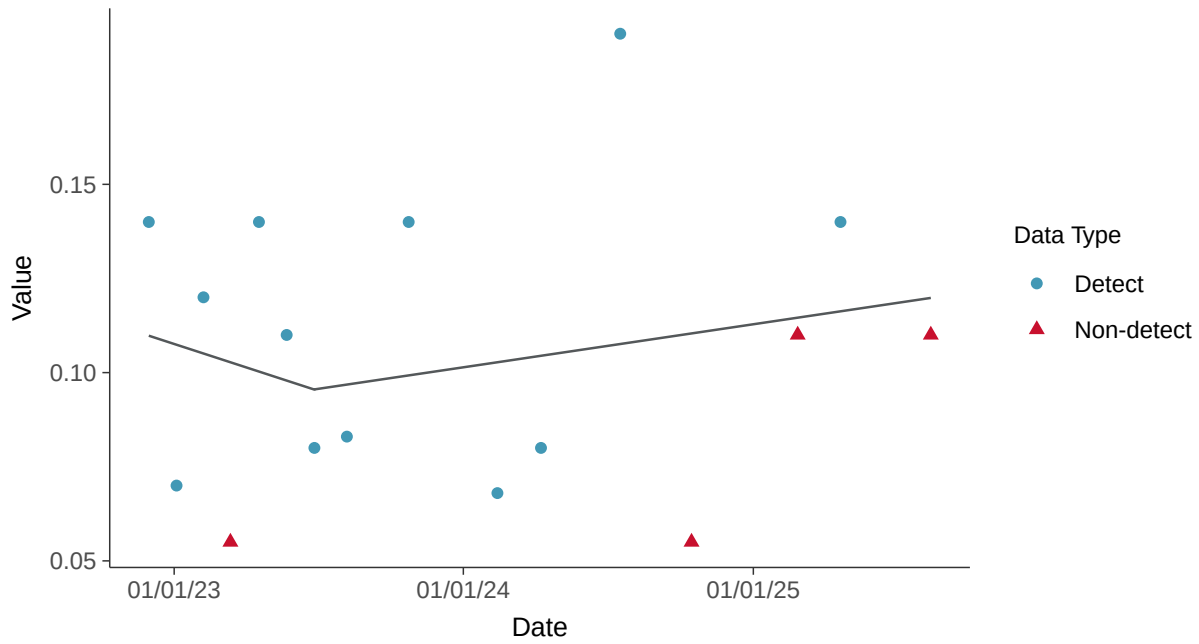
Fluoride (App IV), MW-07 (mg/L)





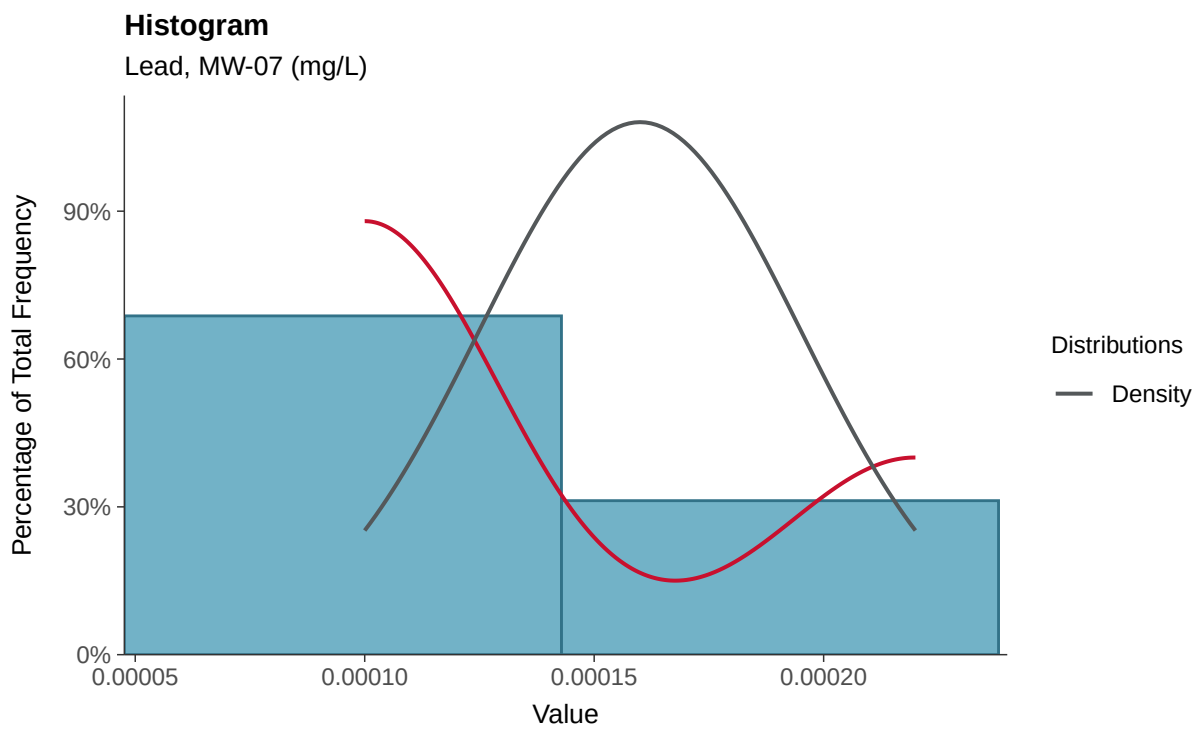
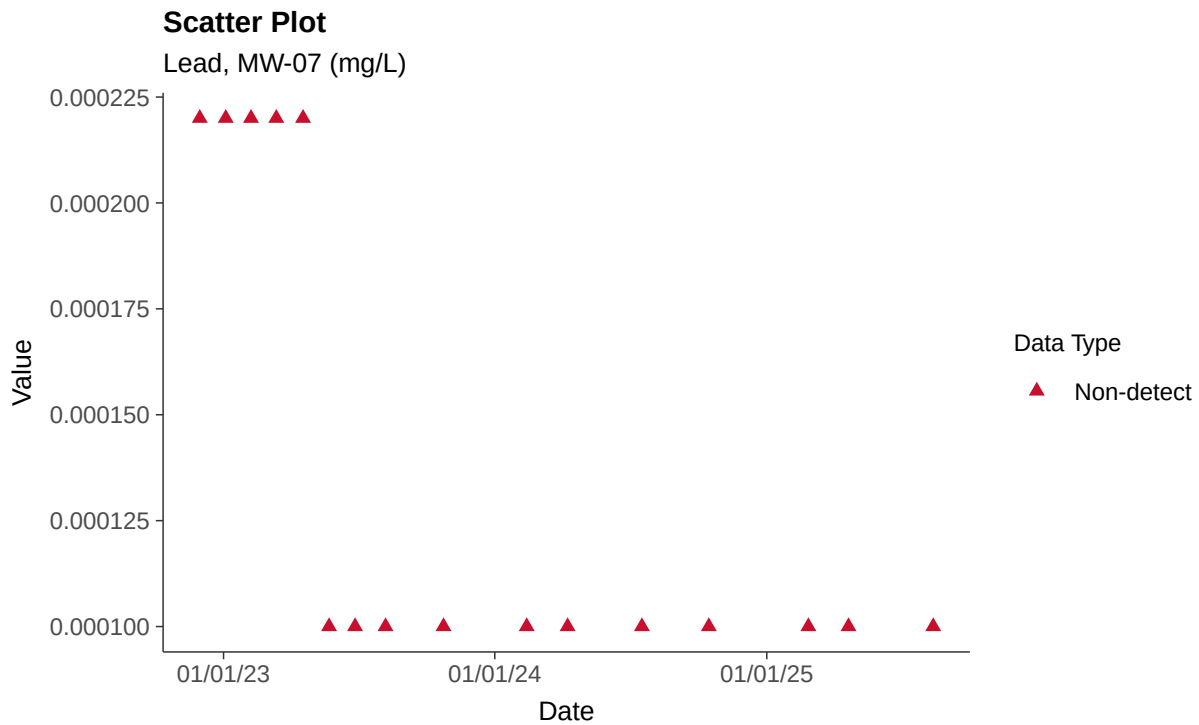
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-07 (mg/L)



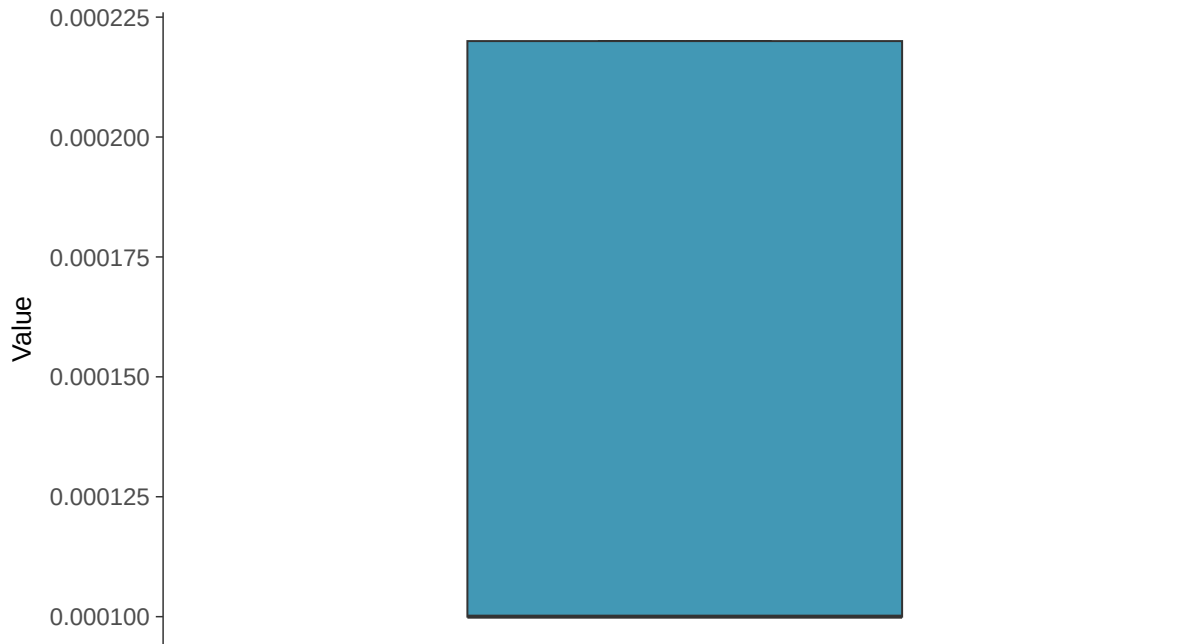
Appendix IV: Lead, MW-07

ID: 17_1_4_115



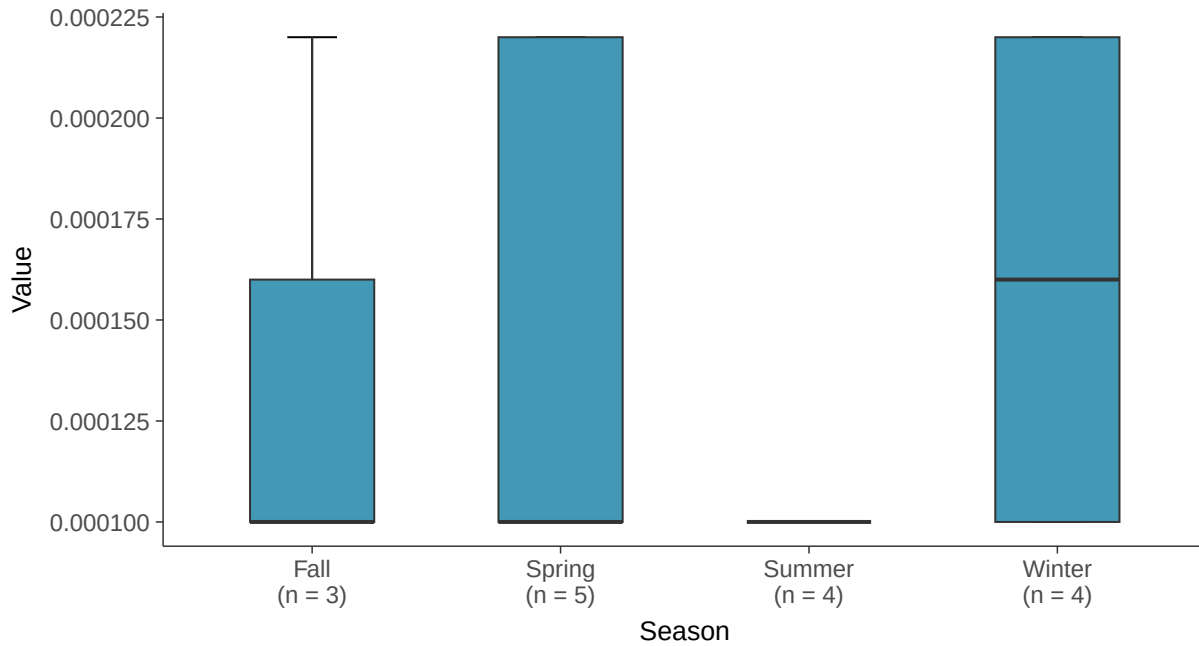
Boxplot

Lead, MW-07 (mg/L)



Boxplot by Season

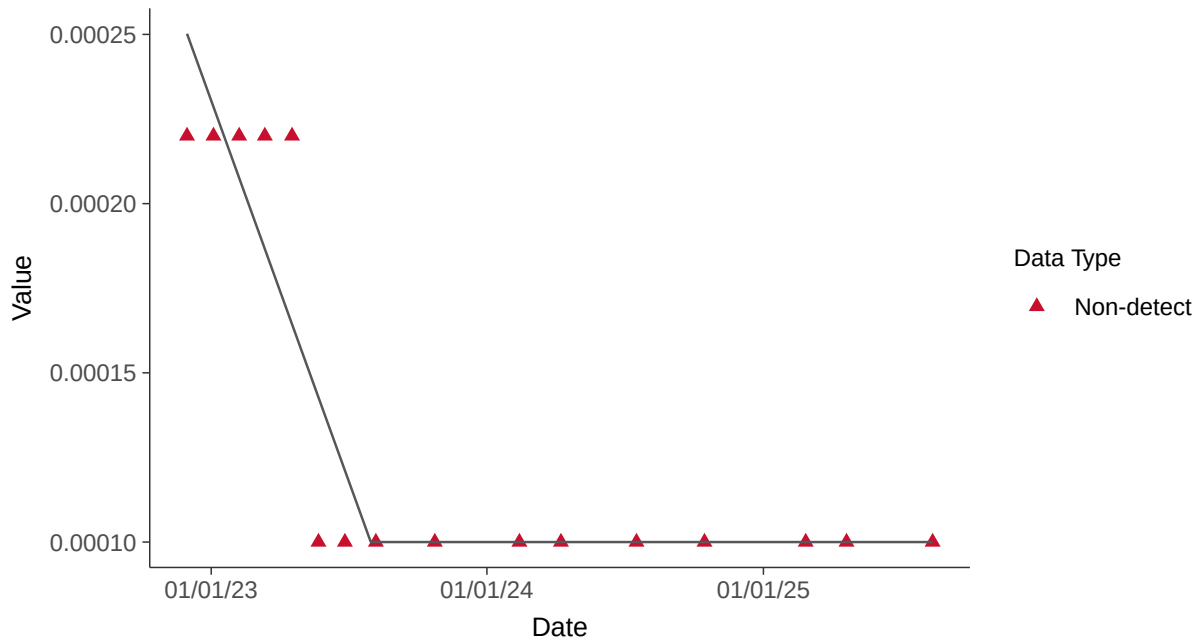
Lead, MW-07 (mg/L)





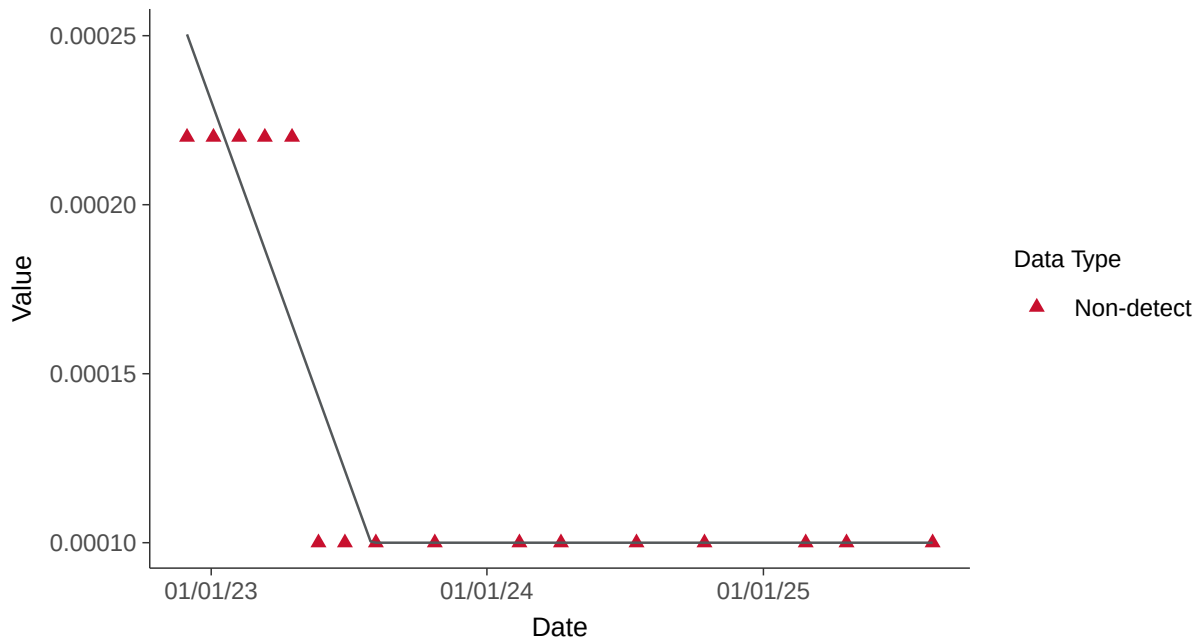
Trend Regression: Piecewise Linear-Linear

Lead, MW-07 (mg/L)



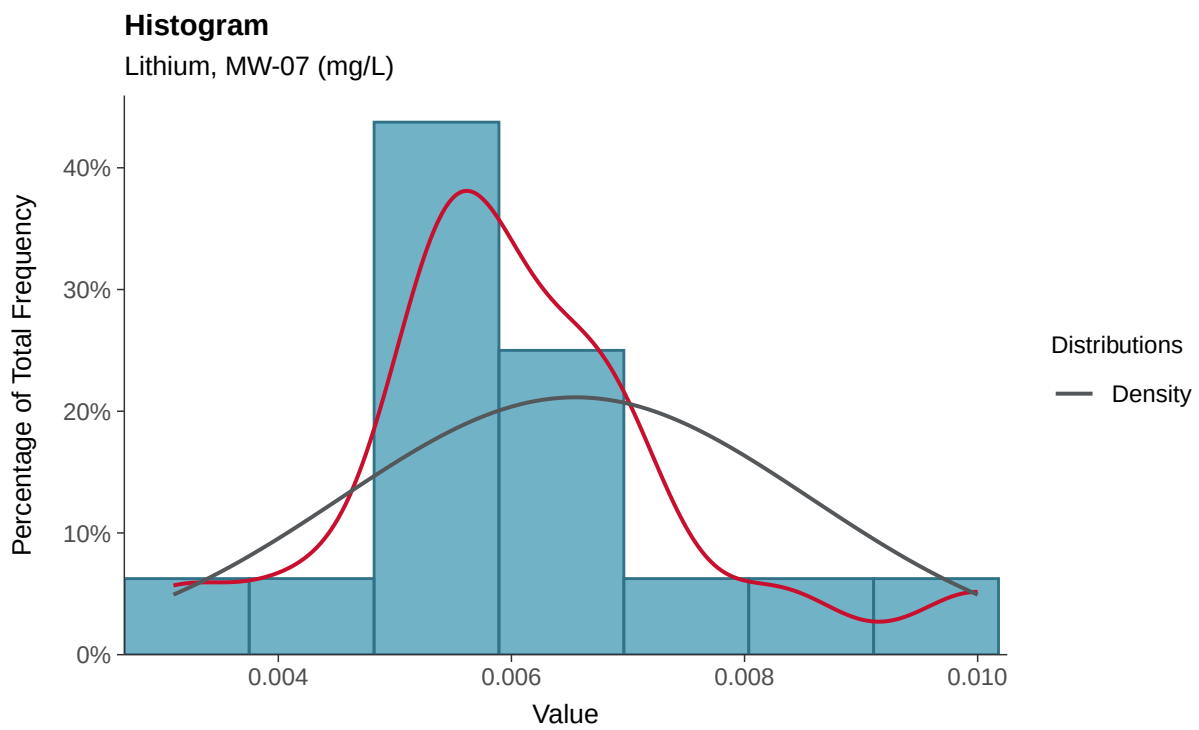
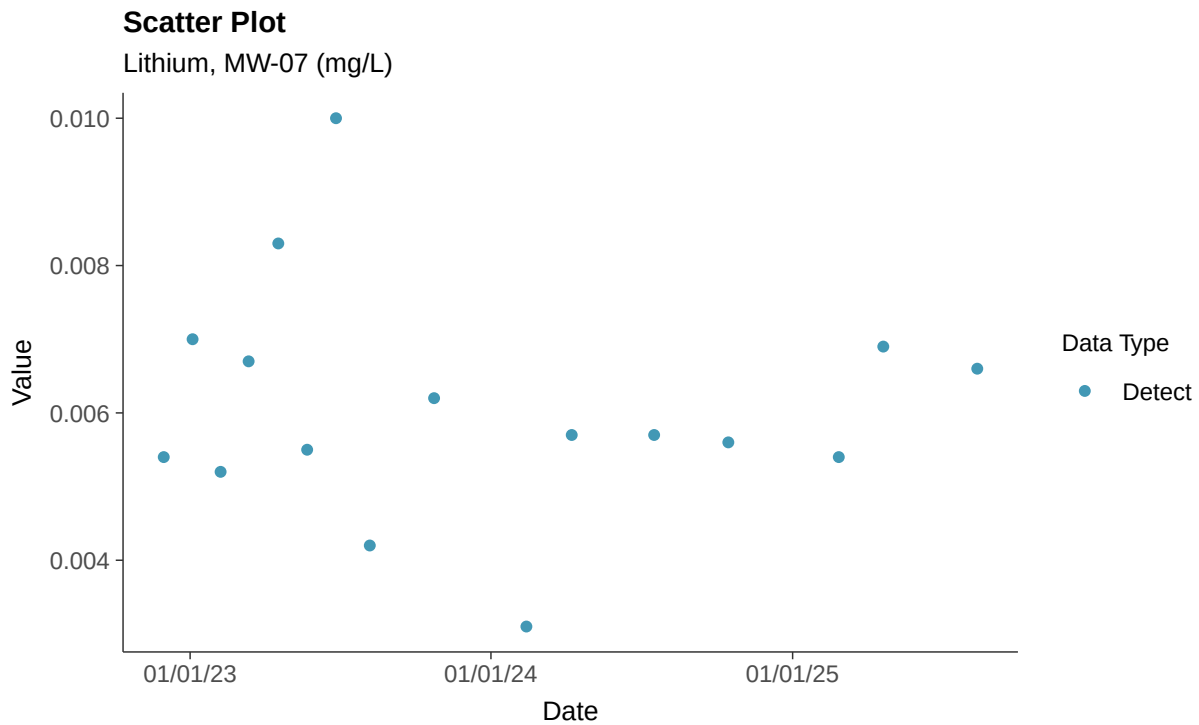
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-07 (mg/L)



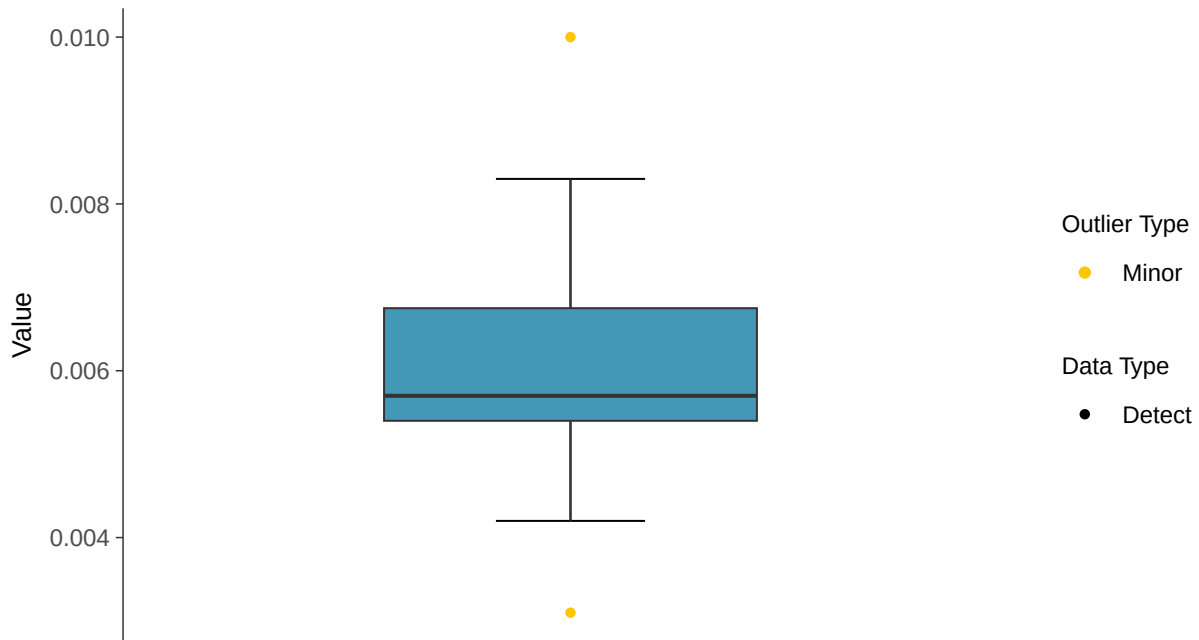
Appendix IV: Lithium, MW-07

ID: 17_1_4_116



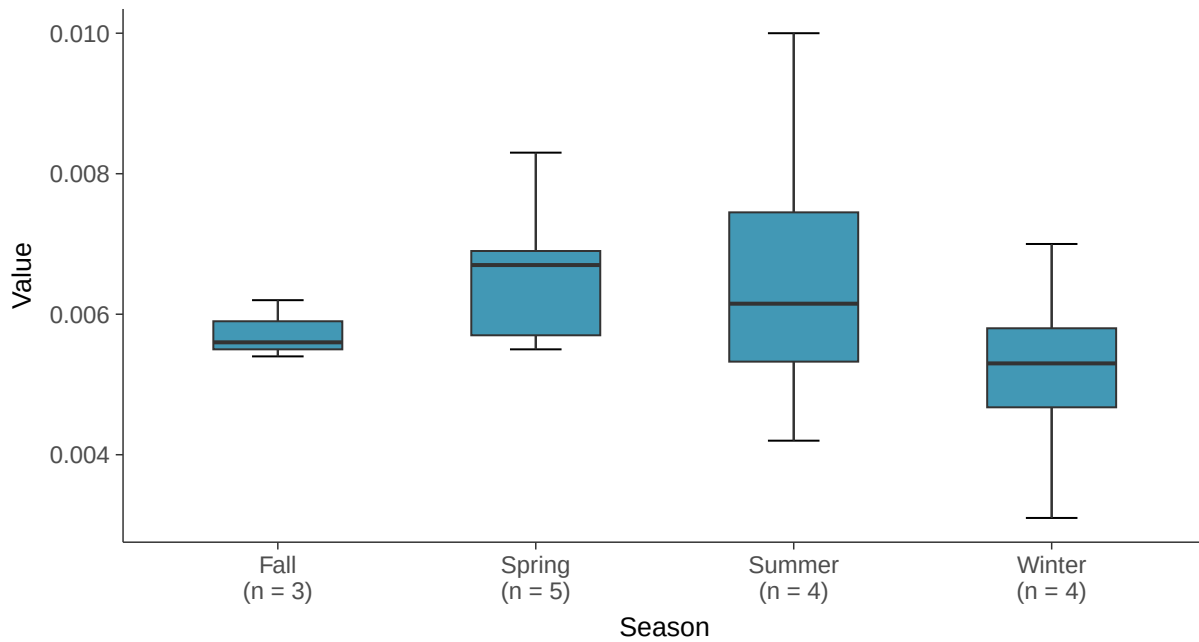
Boxplot

Lithium, MW-07 (mg/L)



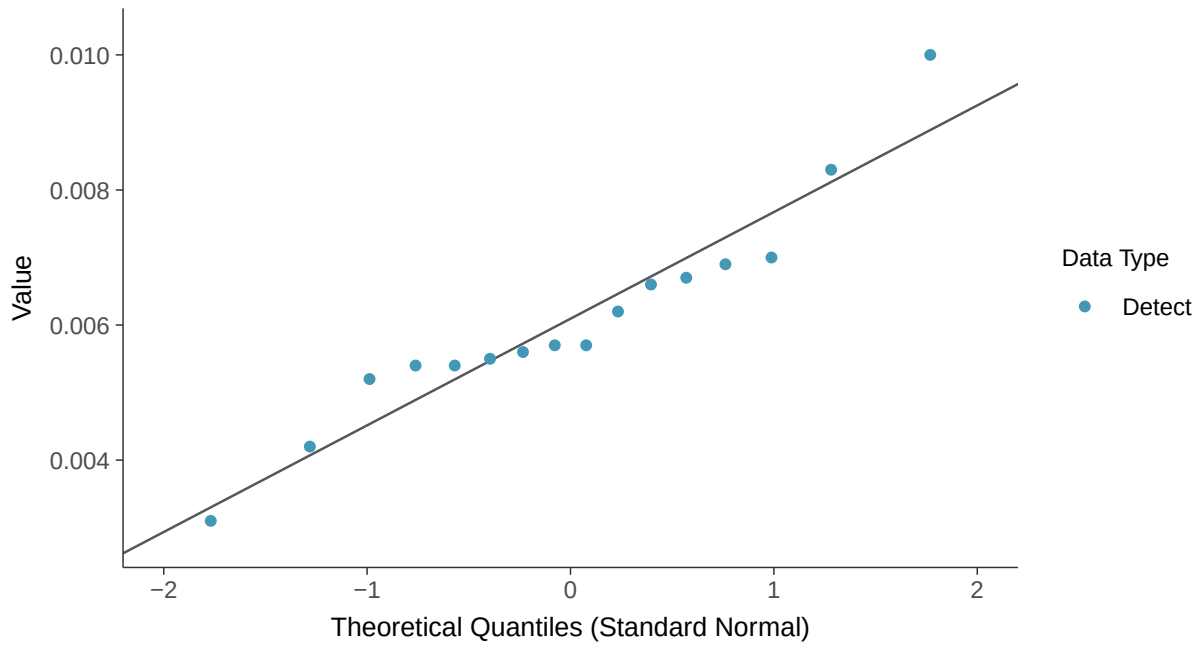
Boxplot by Season

Lithium, MW-07 (mg/L)



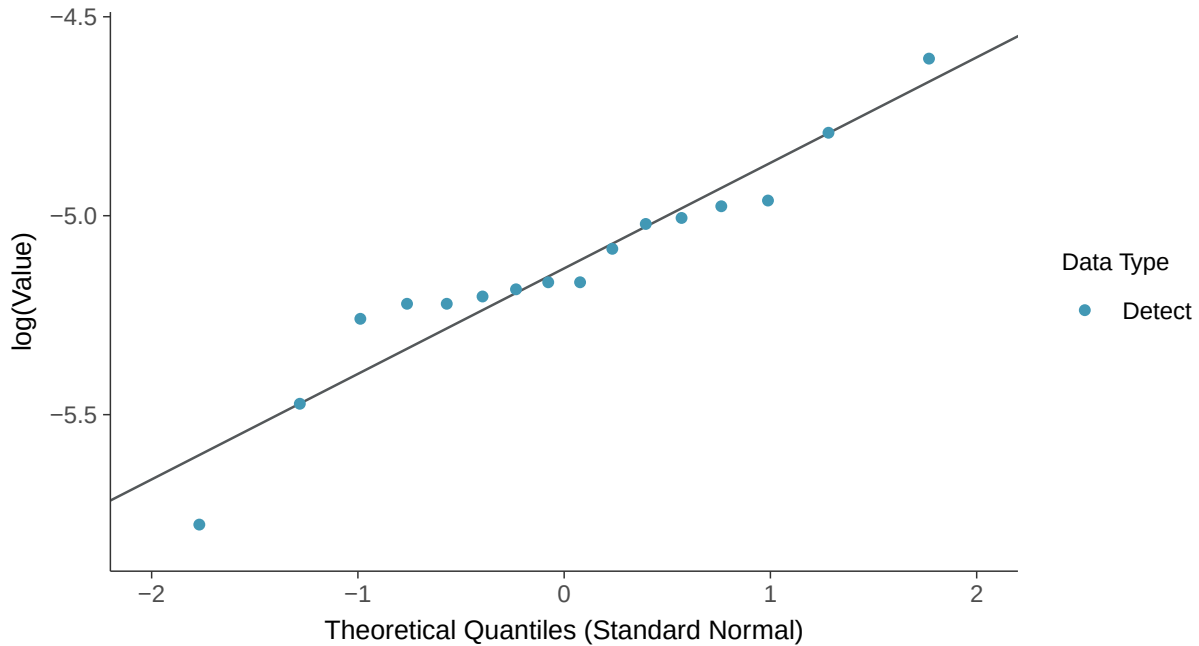
Normal Q-Q plot

Lithium, MW-07 (mg/L)



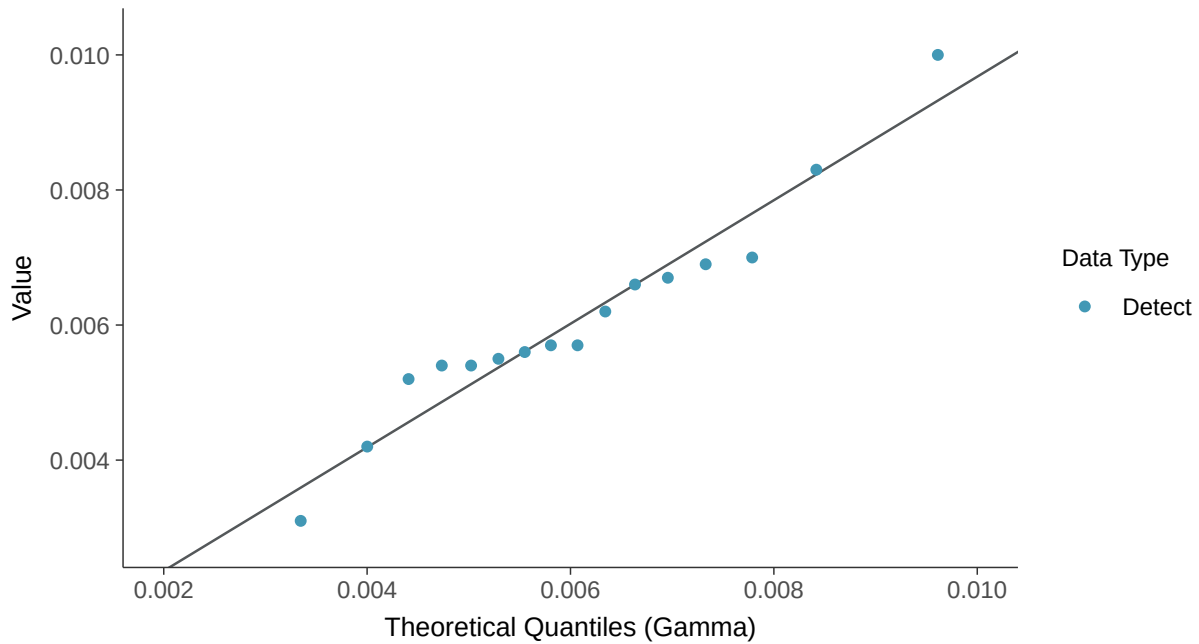
Lognormal Q-Q plot

Lithium, MW-07 (mg/L)



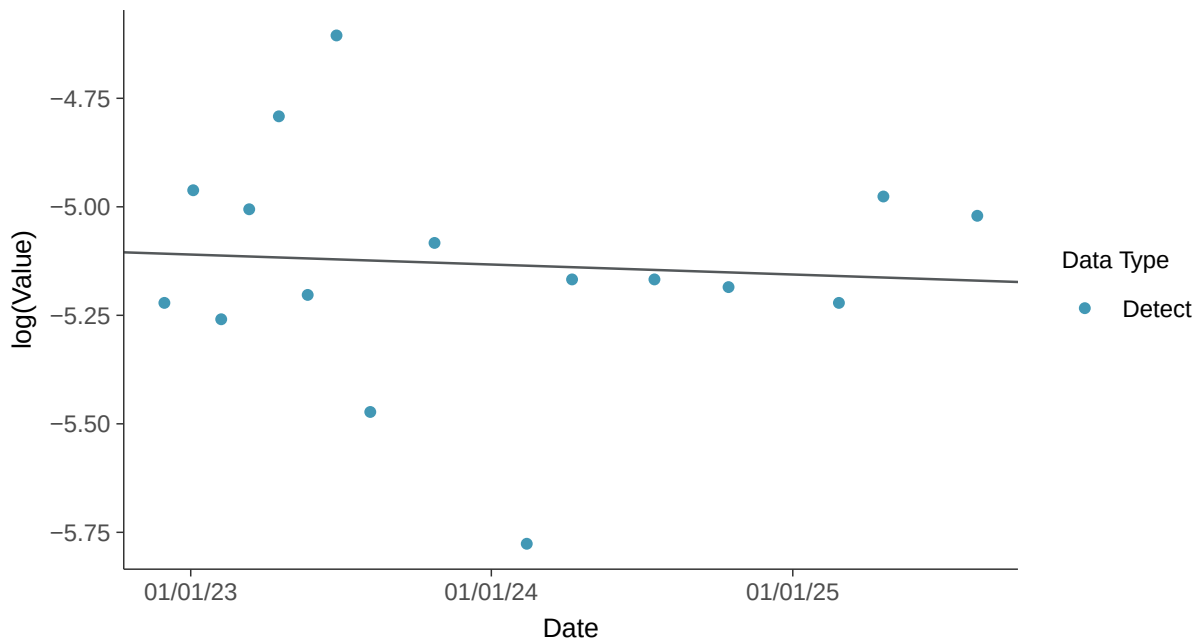
Gamma Q-Q plot

Lithium, MW-07 (mg/L)



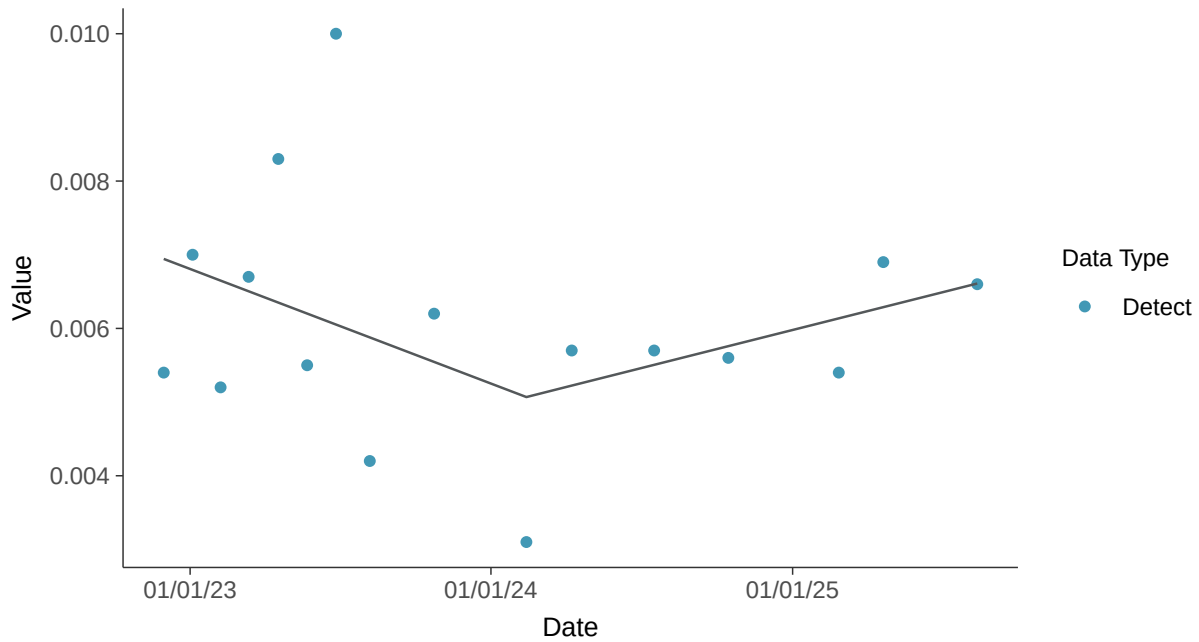
Trend Regression: Lognormal MLE

Lithium, MW-07 (mg/L)



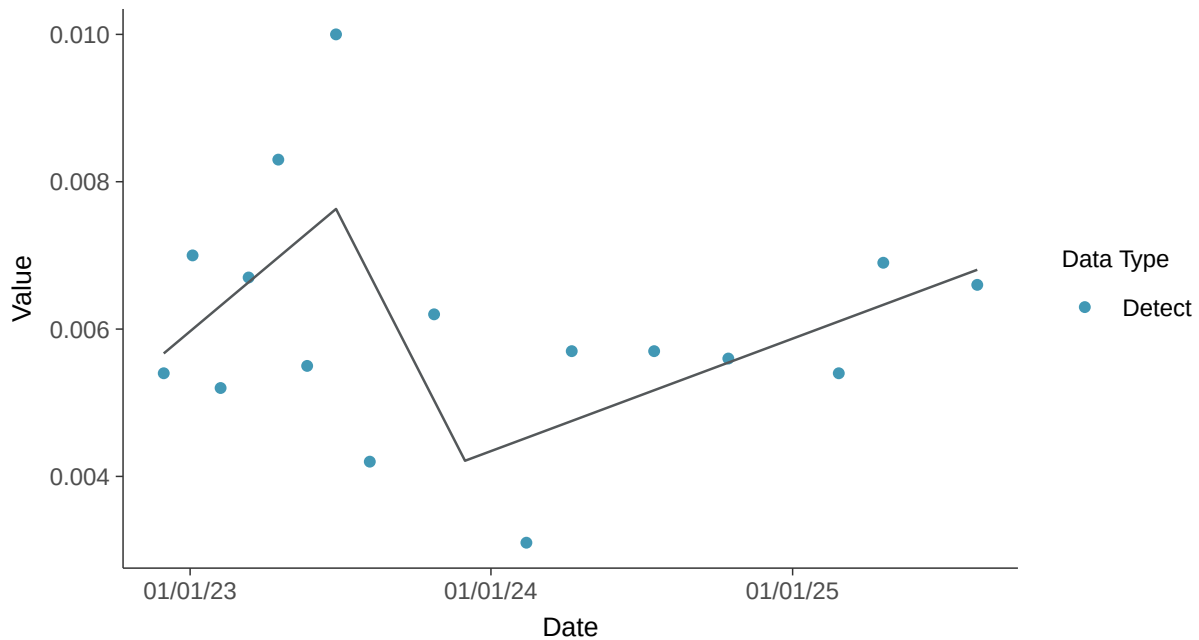
Trend Regression: Piecewise Linear-Linear

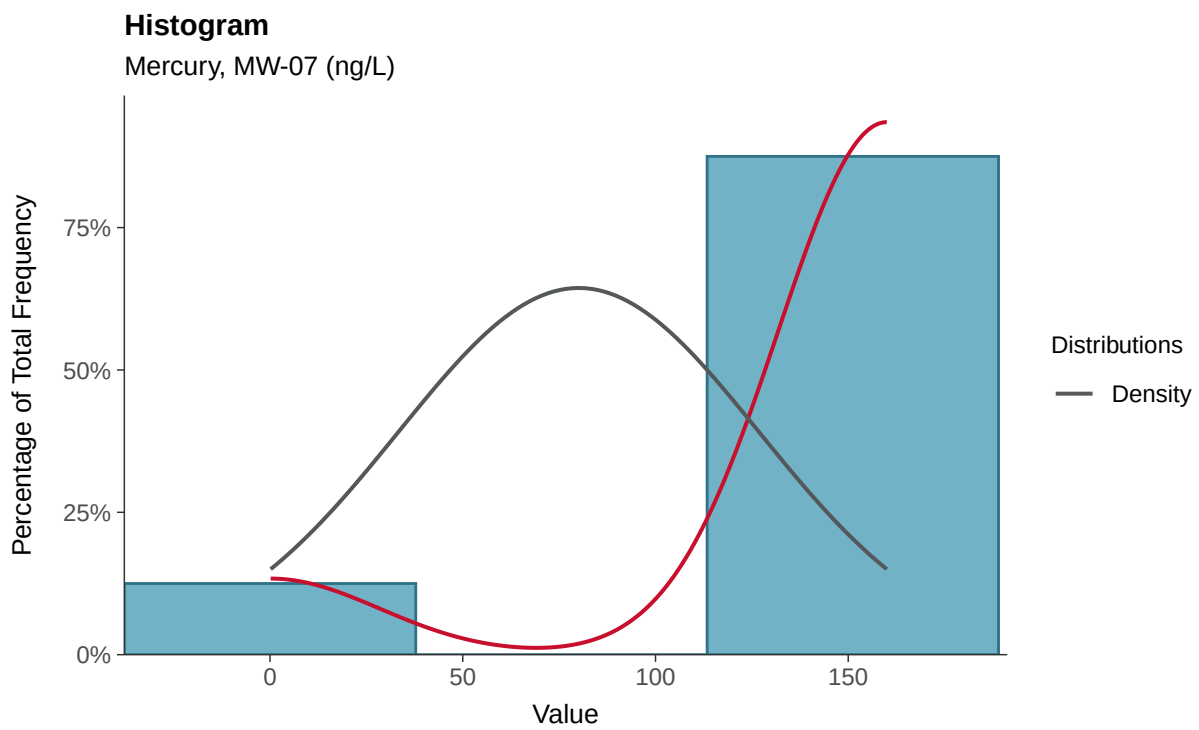
Lithium, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

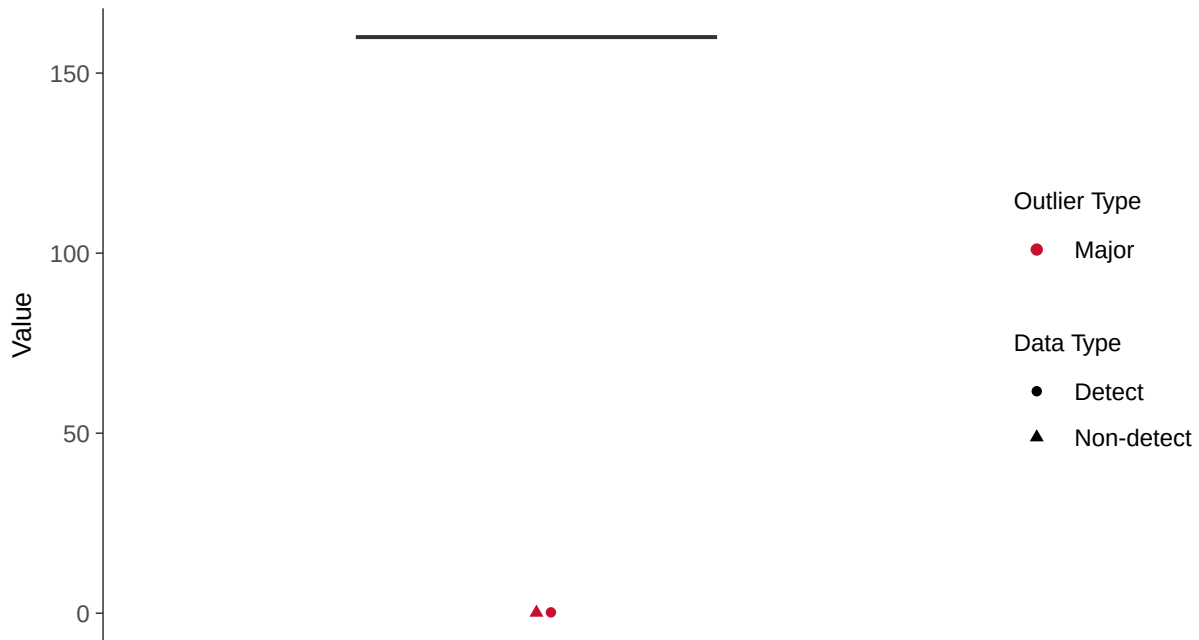
Lithium, MW-07 (mg/L)





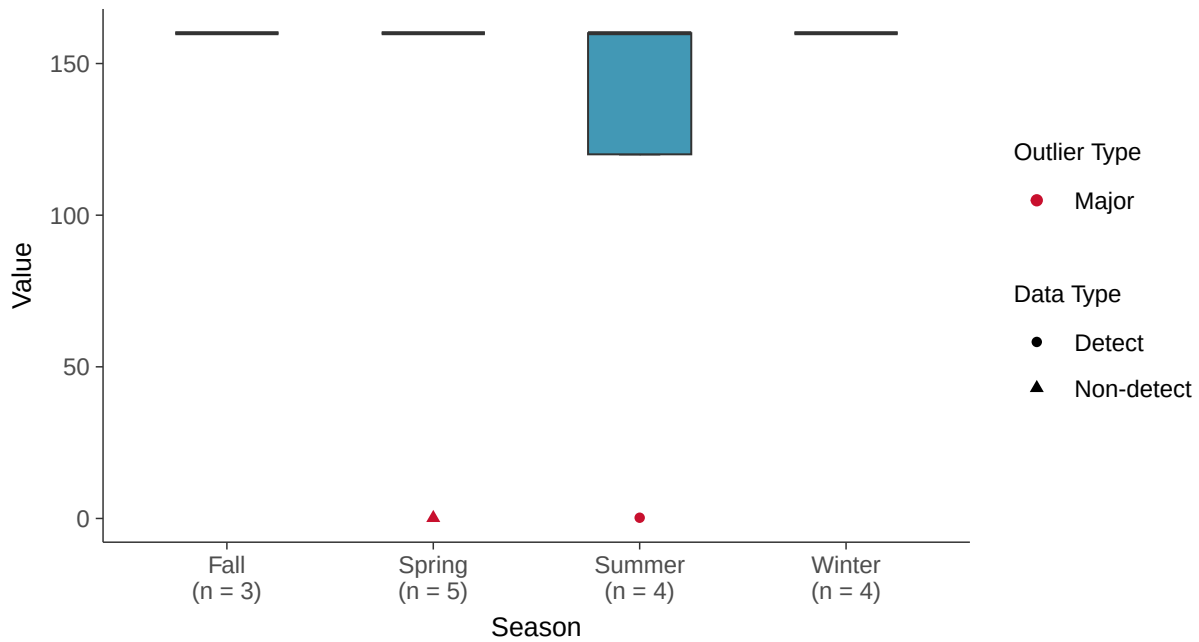
Boxplot

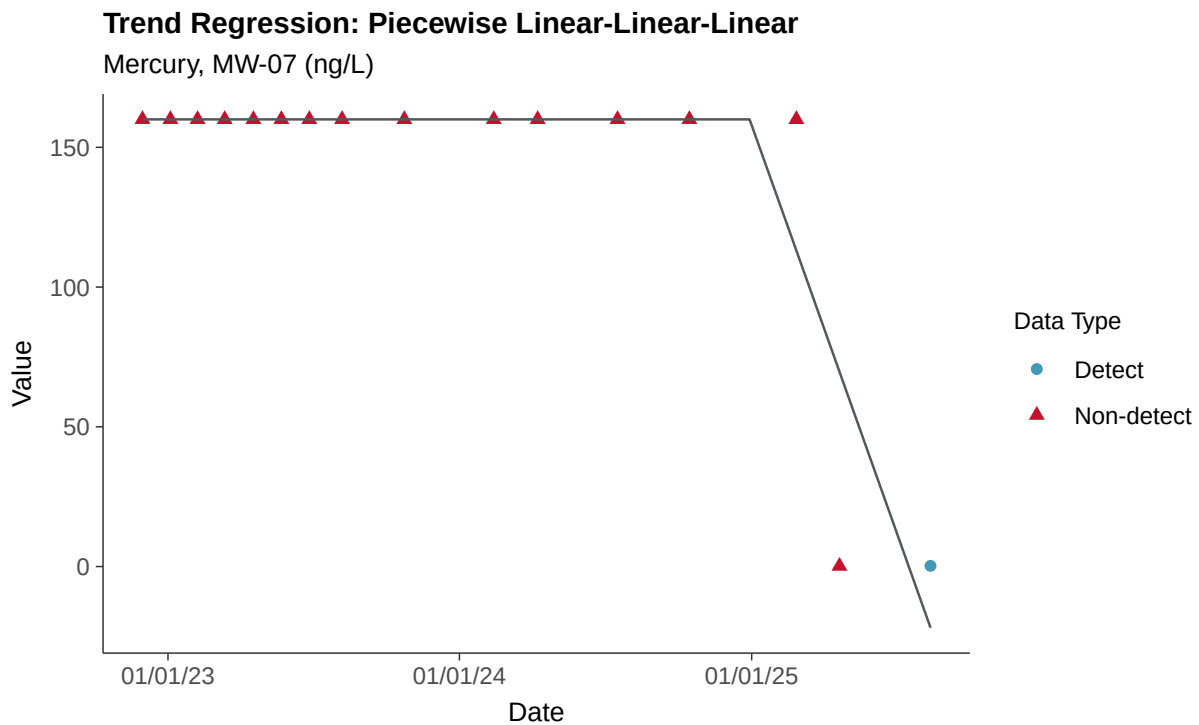
Mercury, MW-07 (ng/L)



Boxplot by Season

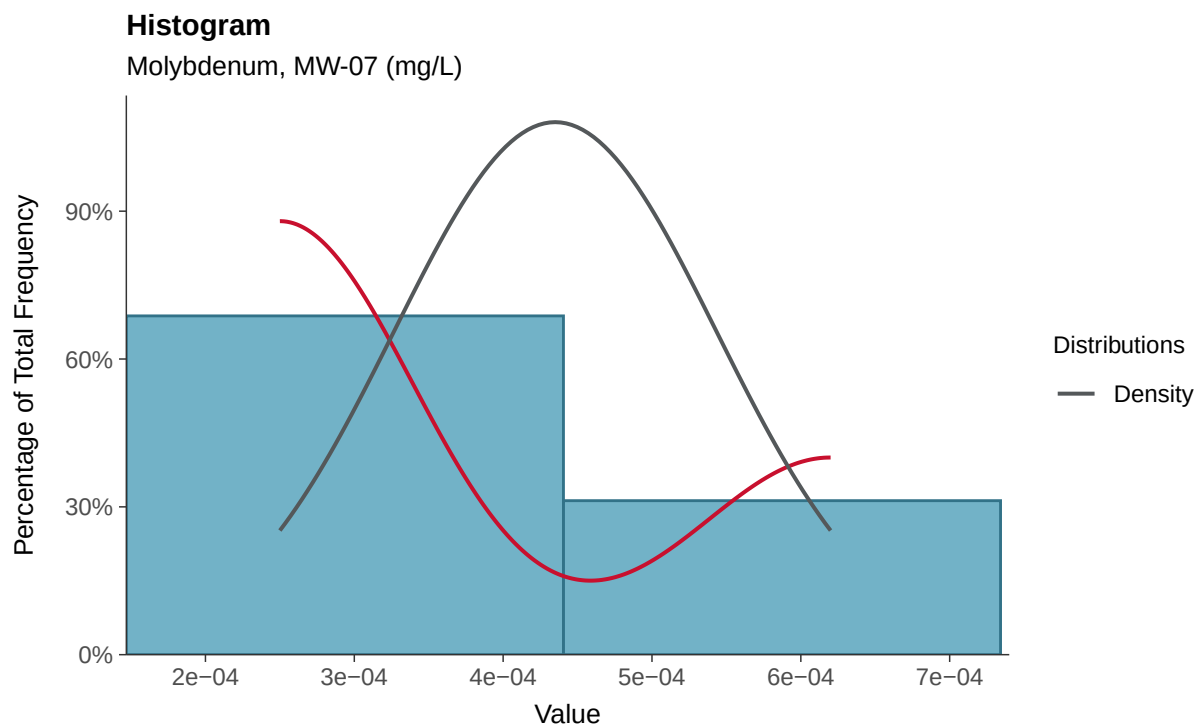
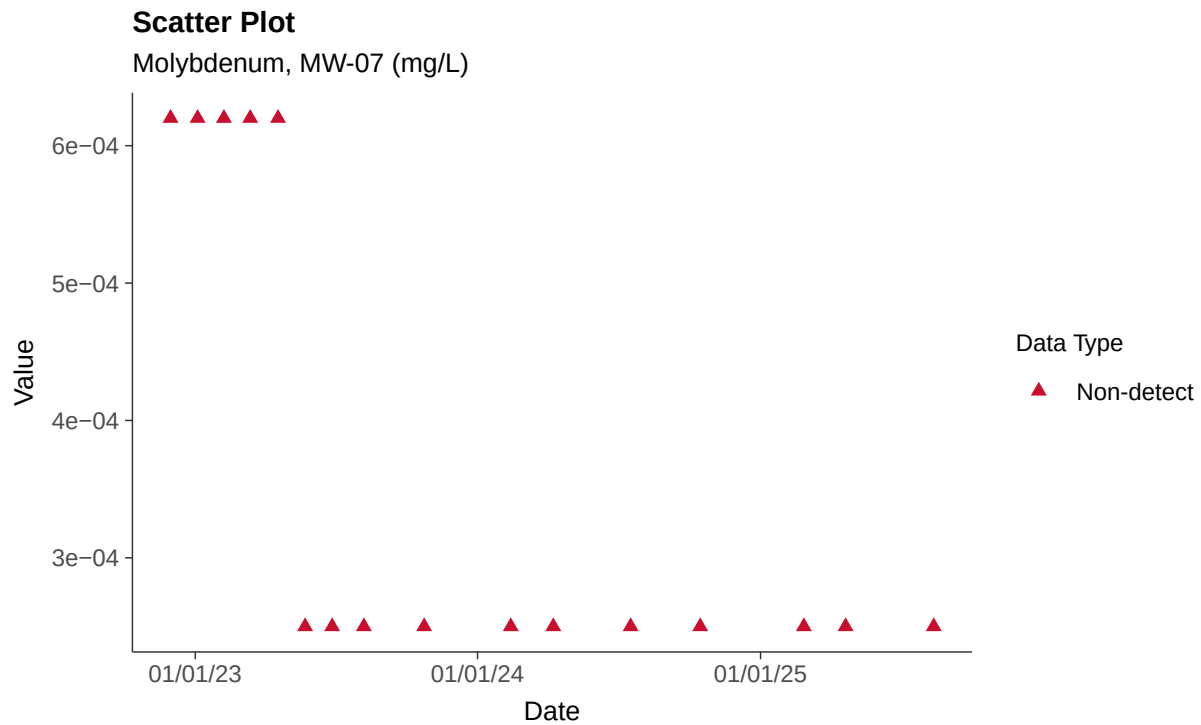
Mercury, MW-07 (ng/L)





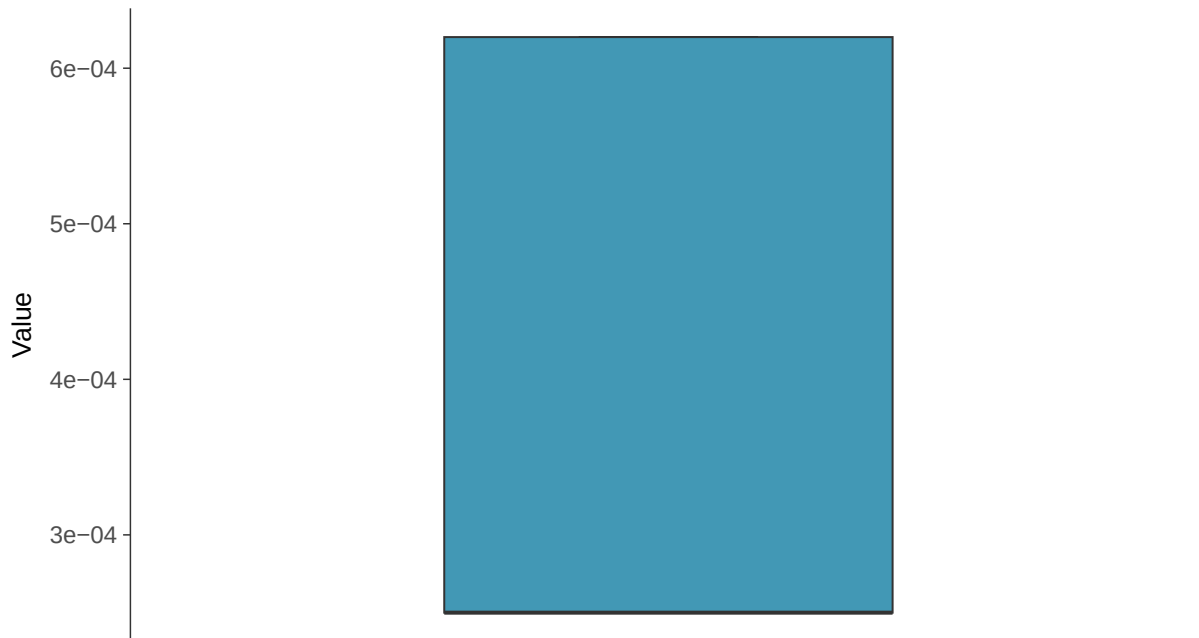
Appendix IV: Molybdenum, MW-07

ID: 17_1_4_118



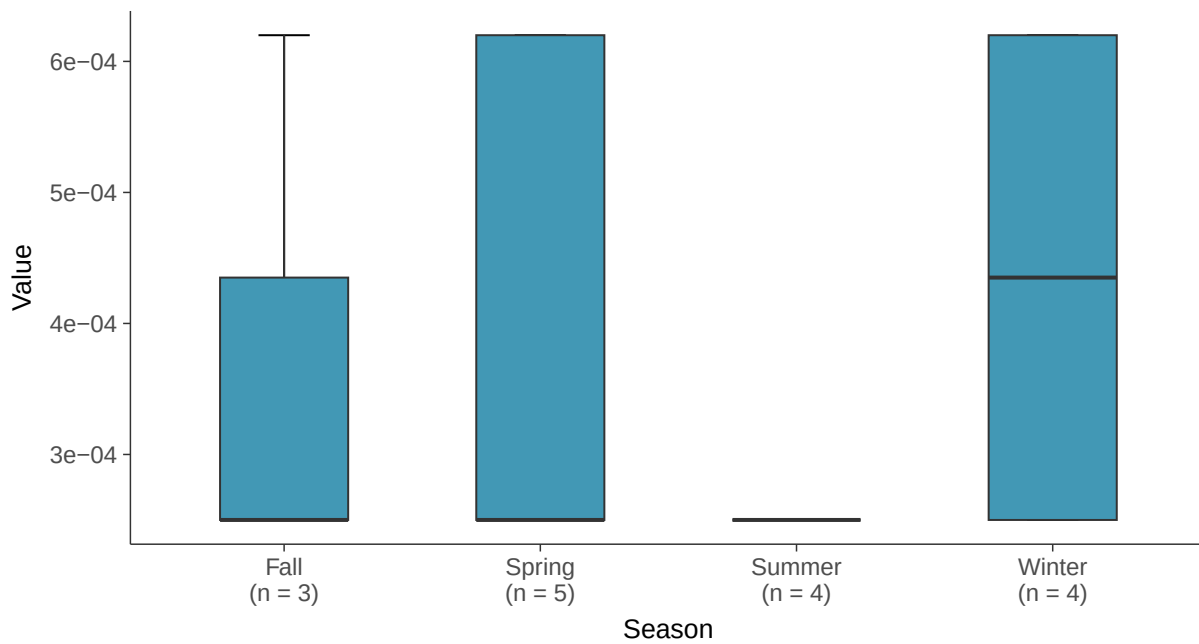
Boxplot

Molybdenum, MW-07 (mg/L)



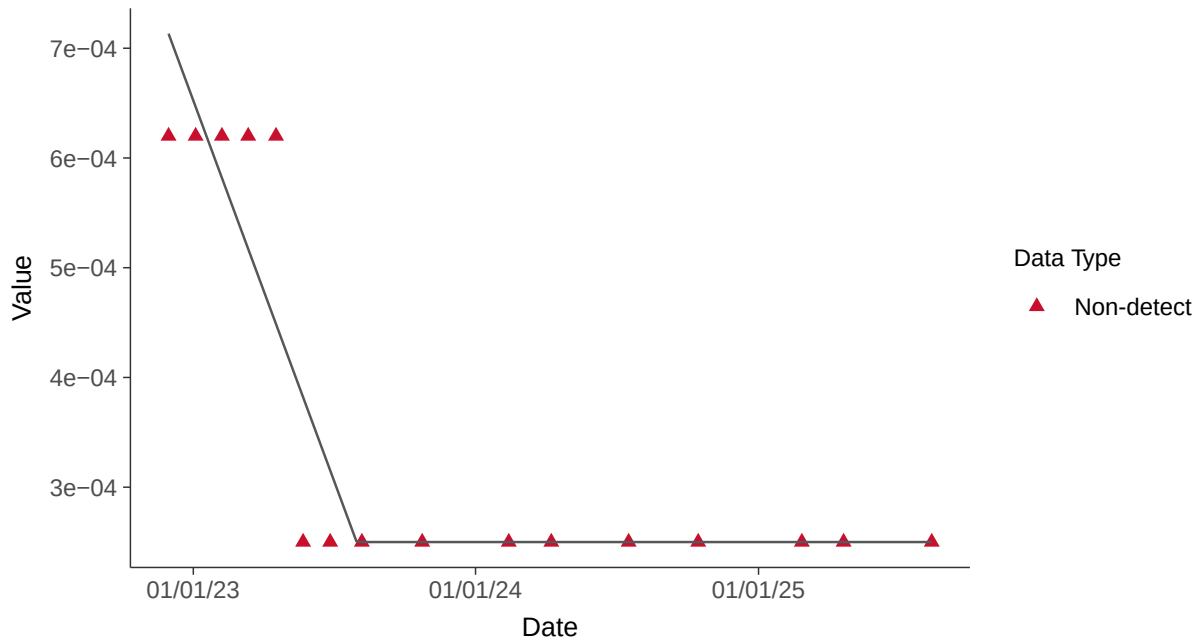
Boxplot by Season

Molybdenum, MW-07 (mg/L)



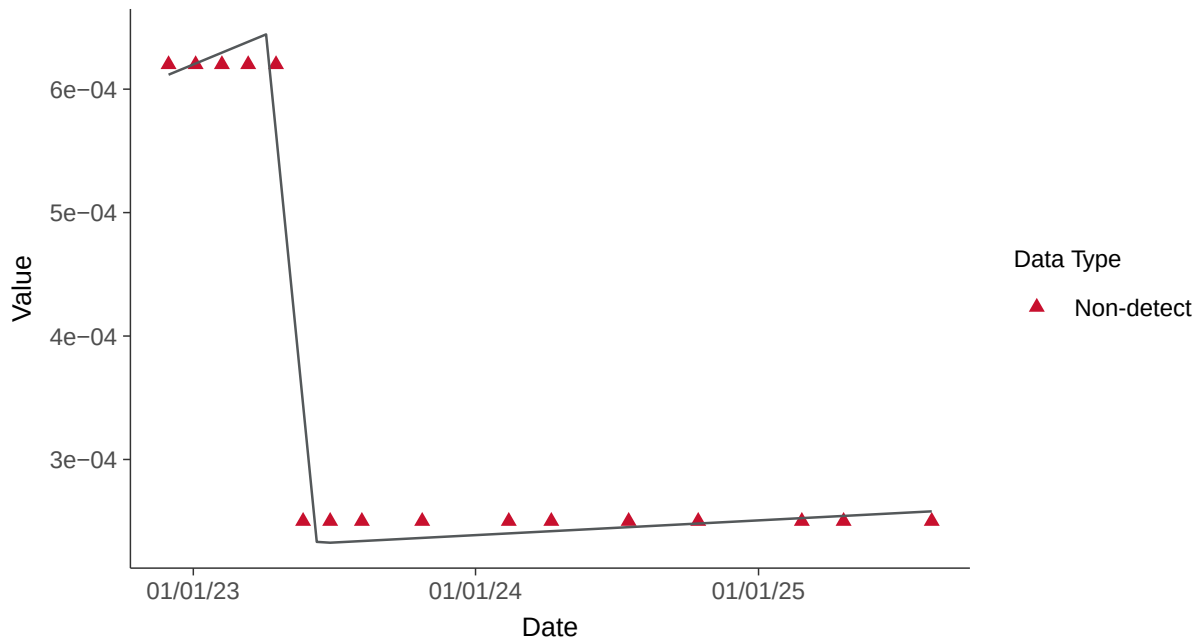
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-07 (mg/L)

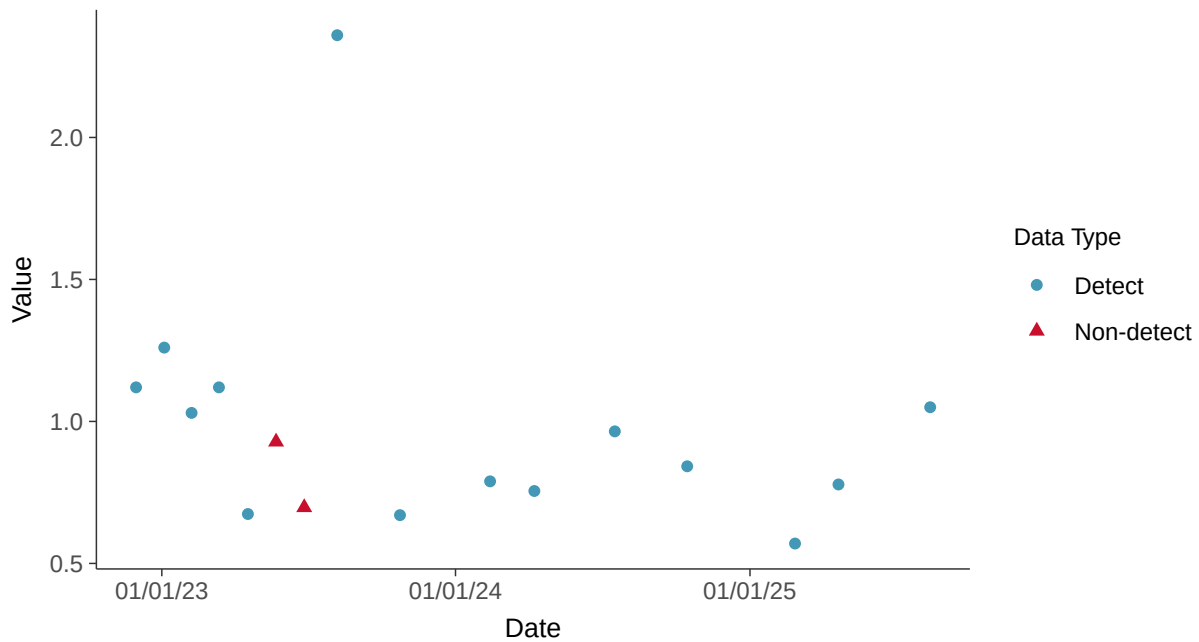


Appendix IV: Radium 226 and 228, MW-07

ID: 17_1_4_121

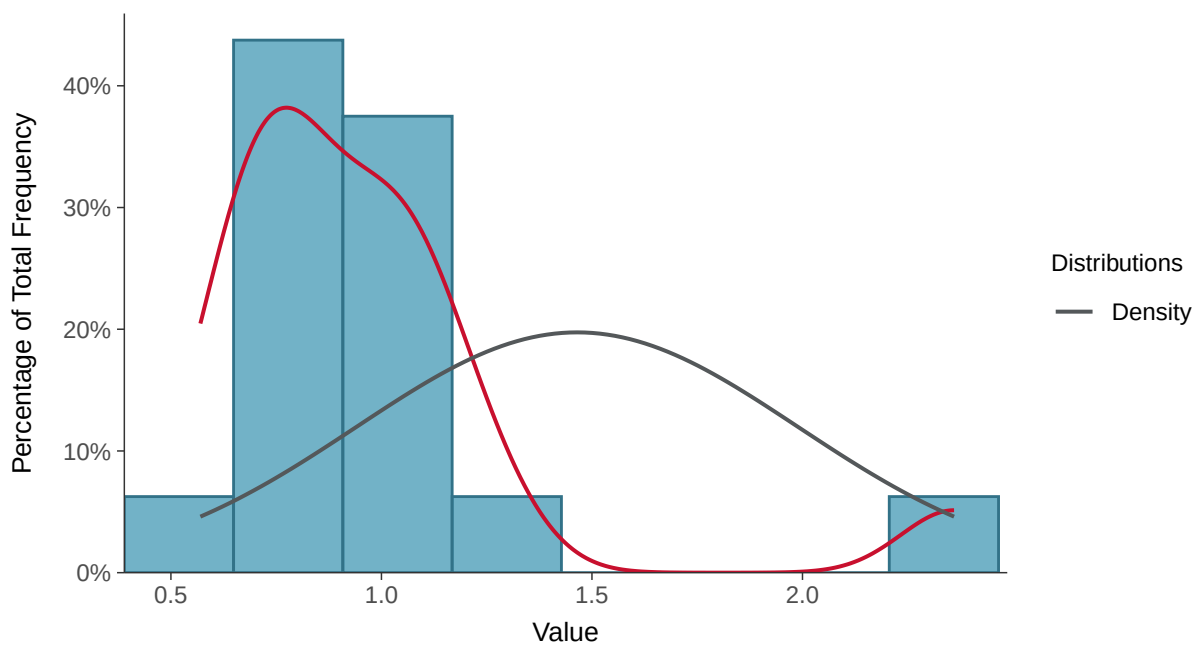
Scatter Plot

Radium 226 and 228, MW-07 (pCi/L)



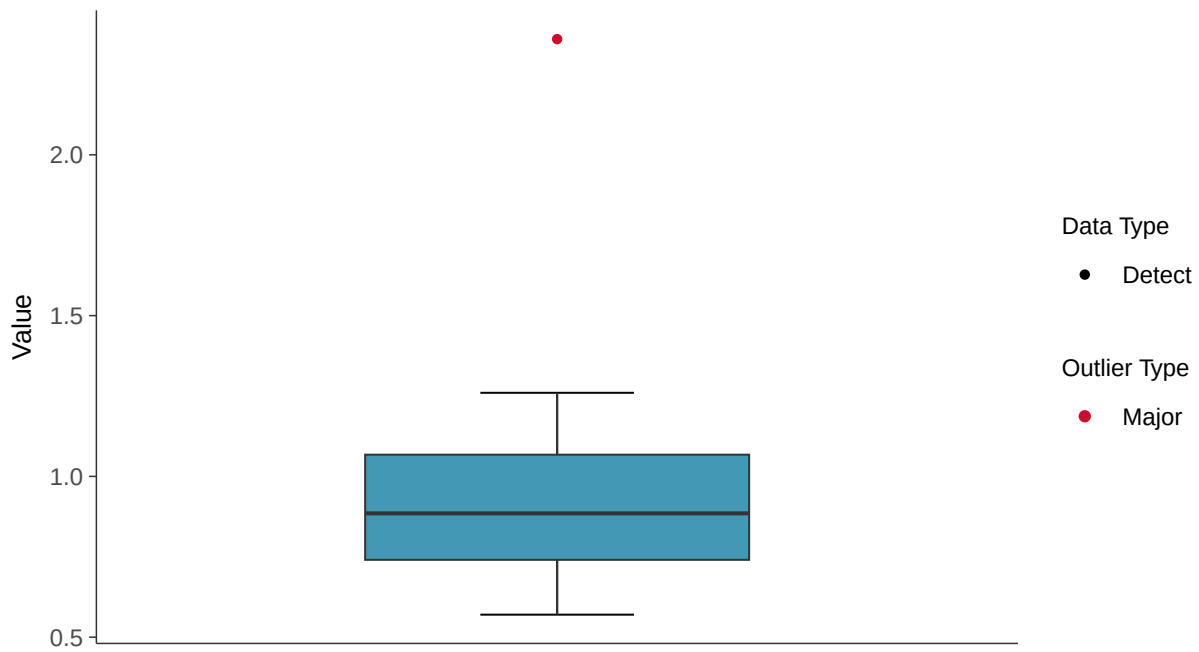
Histogram

Radium 226 and 228, MW-07 (pCi/L)



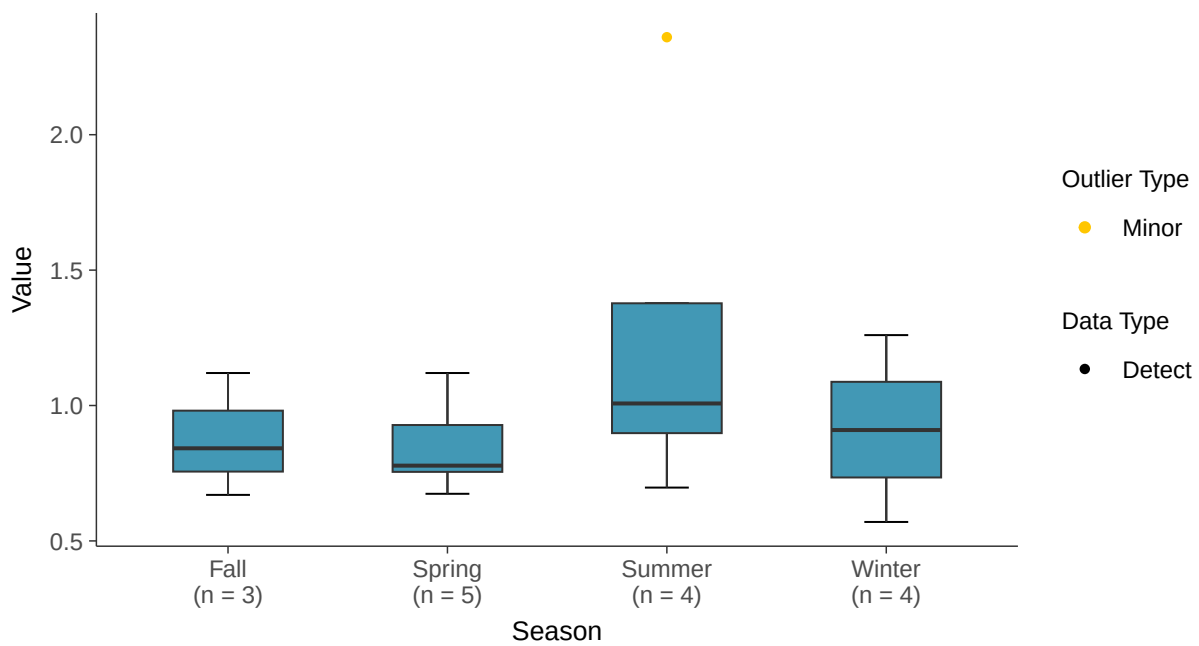
Boxplot

Radium 226 and 228, MW-07 (pCi/L)



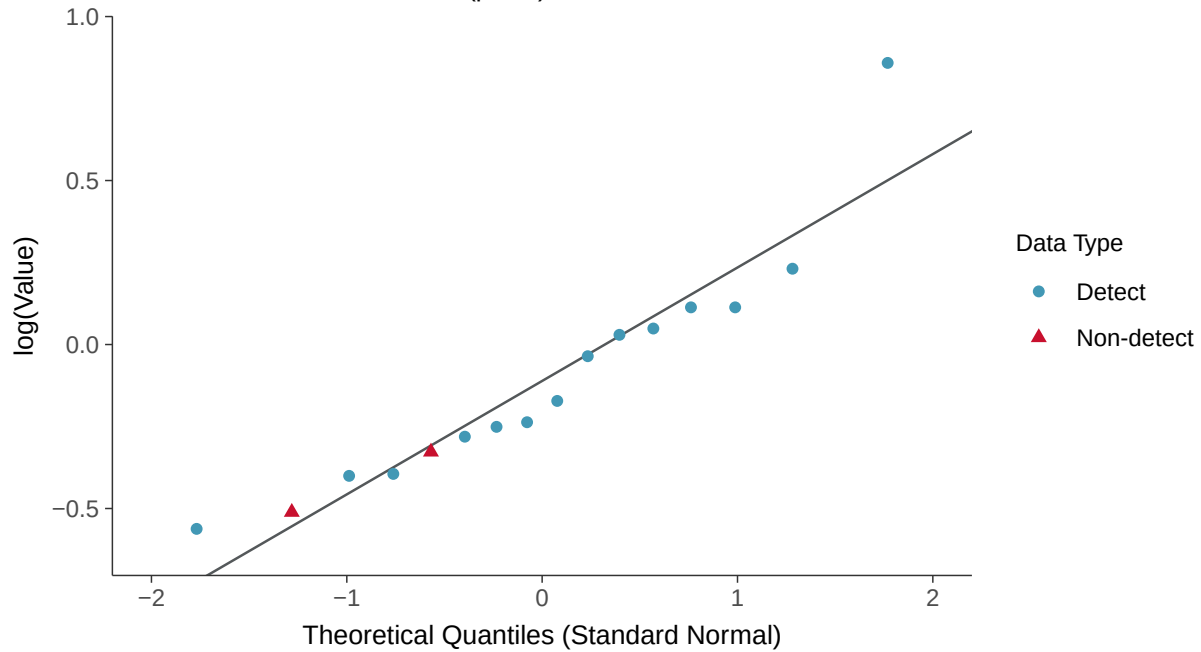
Boxplot by Season

Radium 226 and 228, MW-07 (pCi/L)



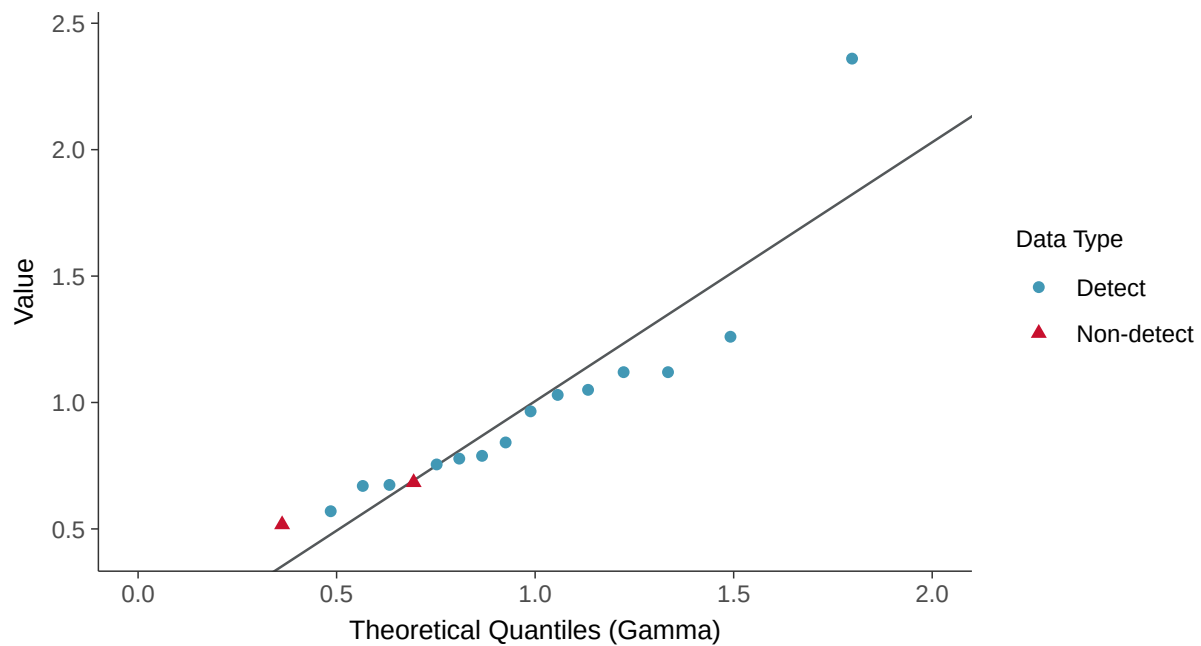
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-07 (pCi/L)



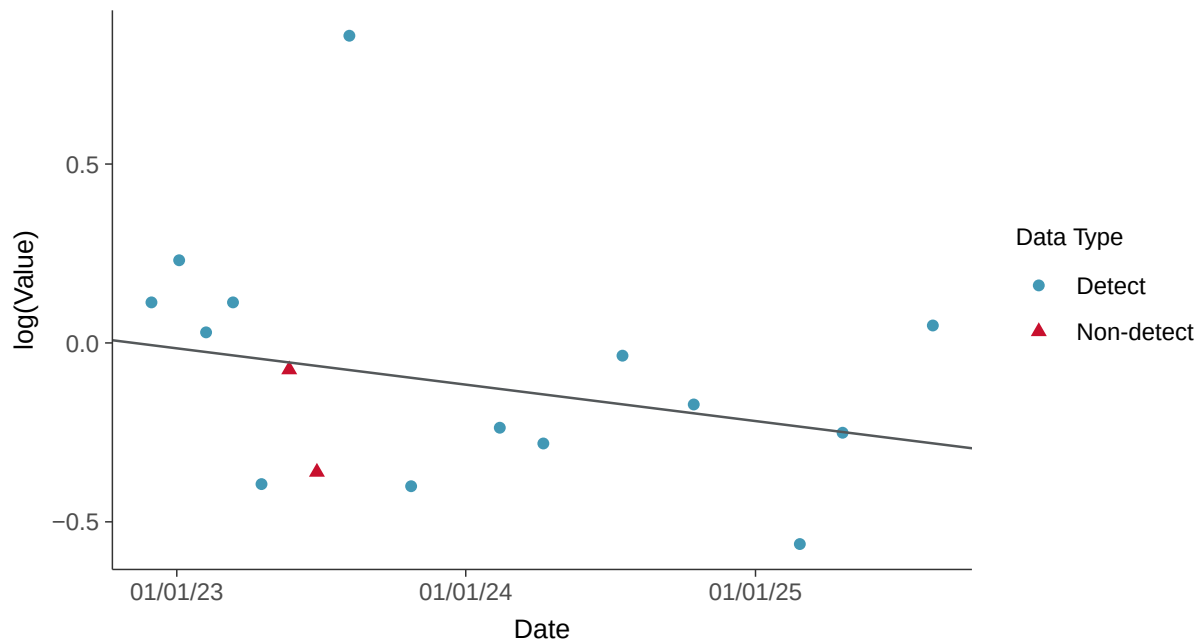
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-07 (pCi/L)



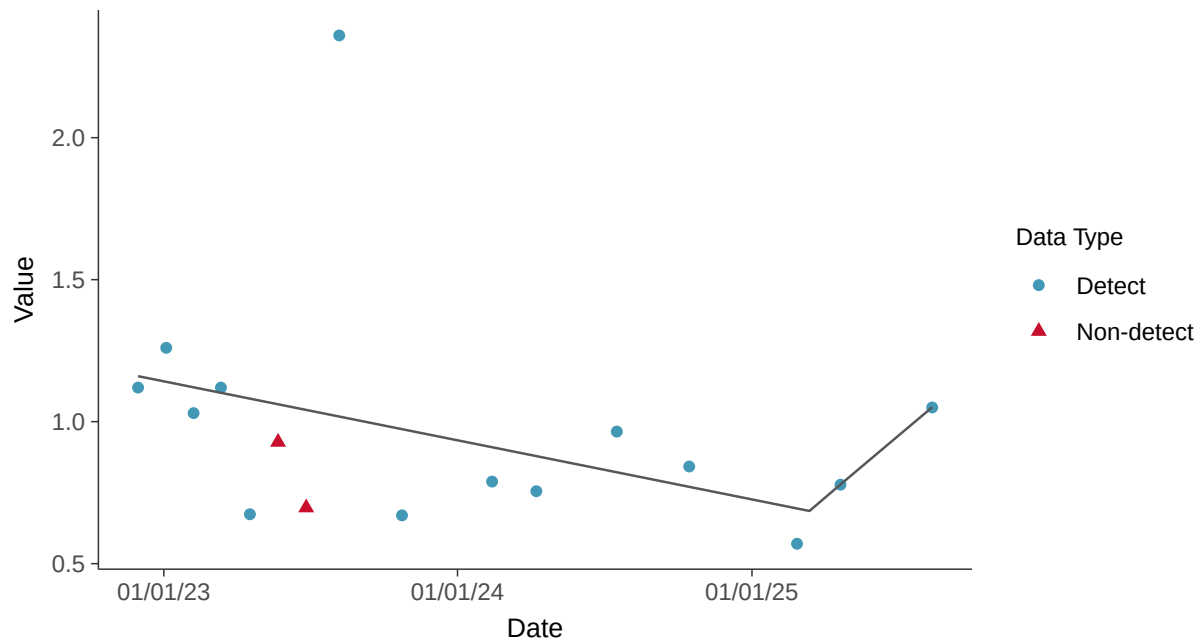
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-07 (pCi/L)



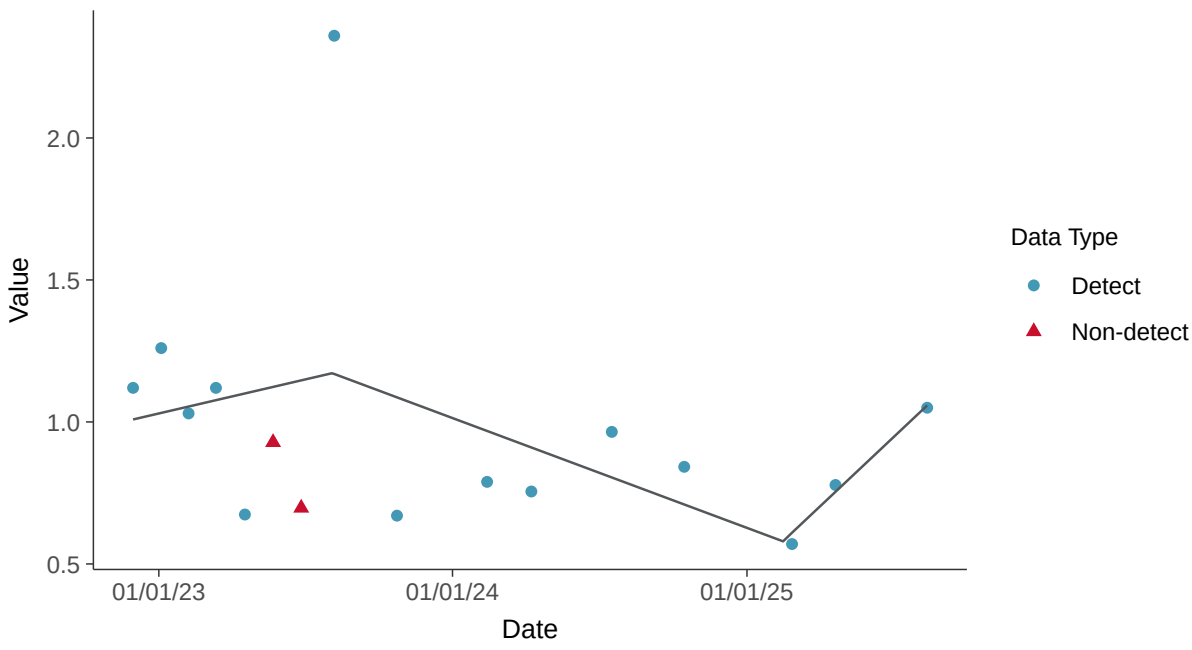
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-07 (pCi/L)



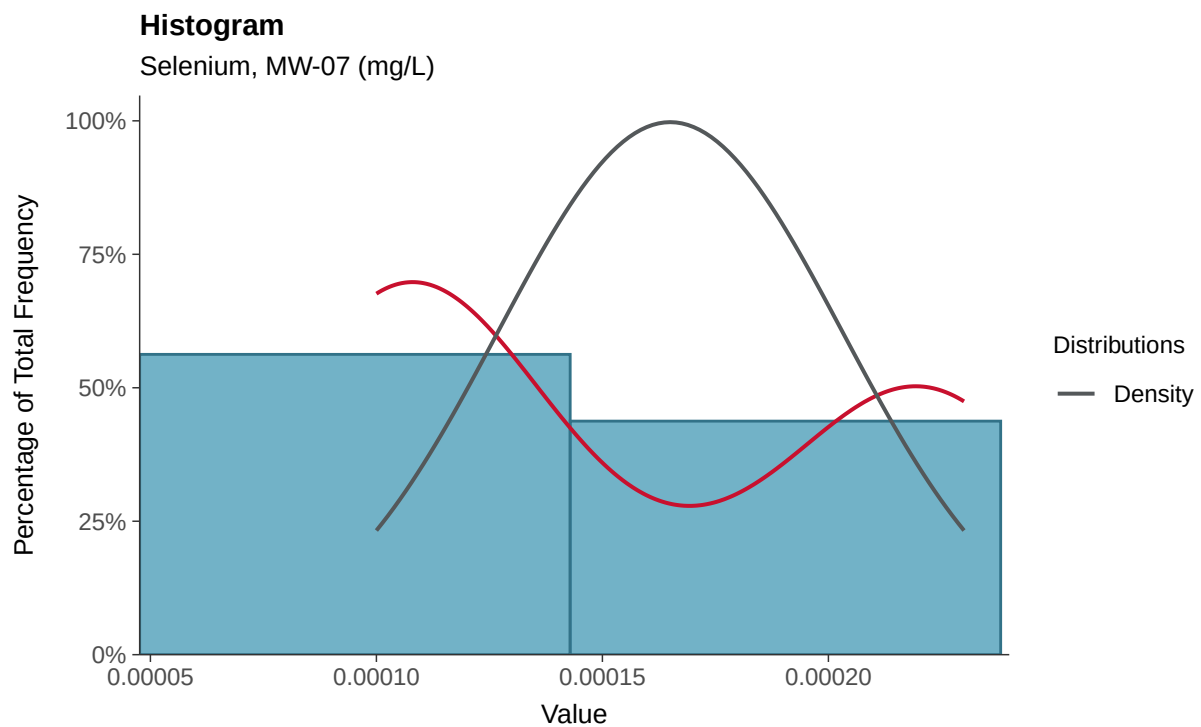
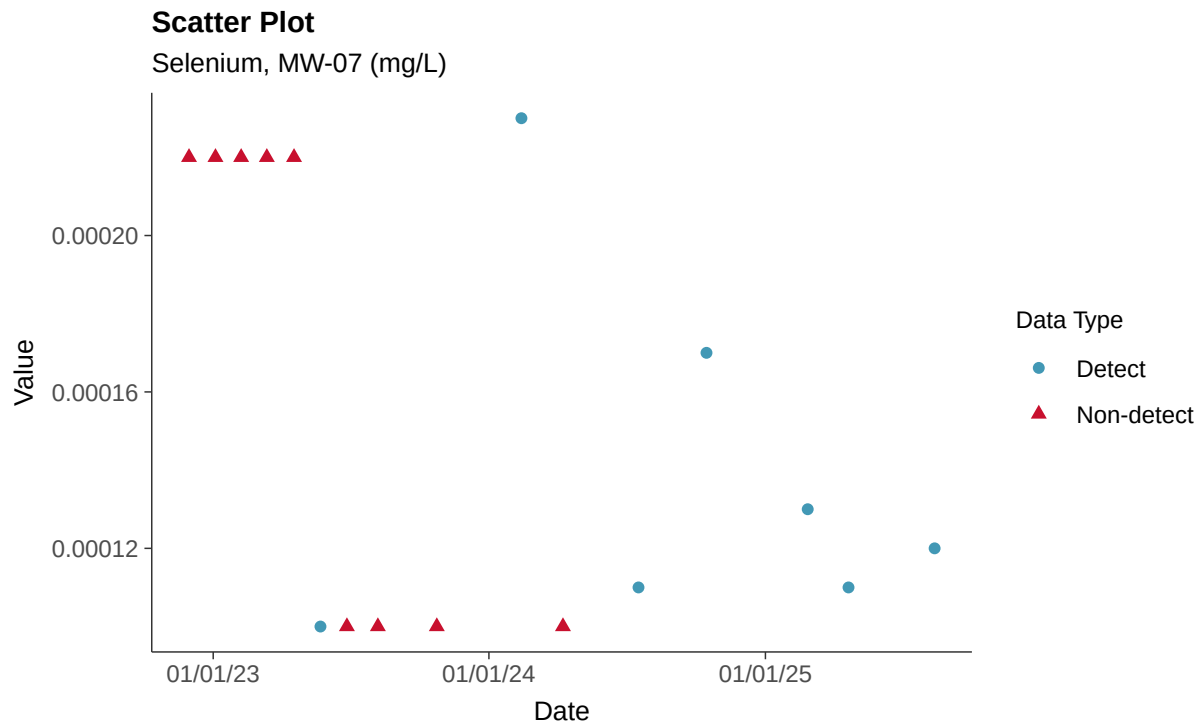


Trend Regression: Piecewise Linear-Linear-Linear
Radium 226 and 228, MW-07 (pCi/L)



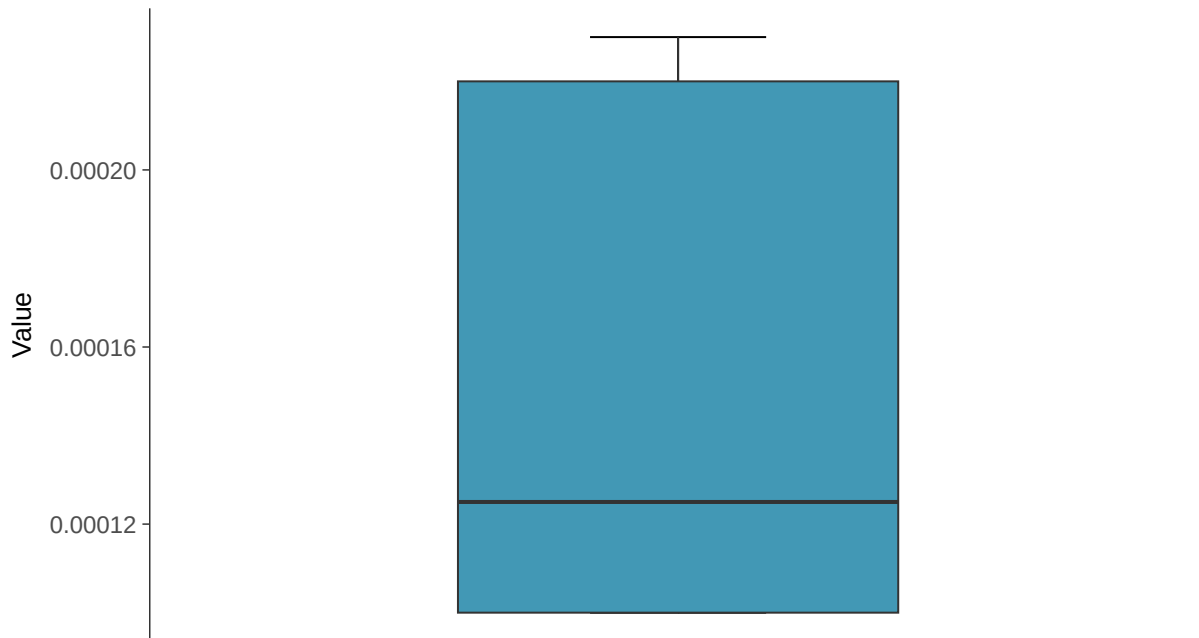
Appendix IV: Selenium, MW-07

ID: 17_1_4_122



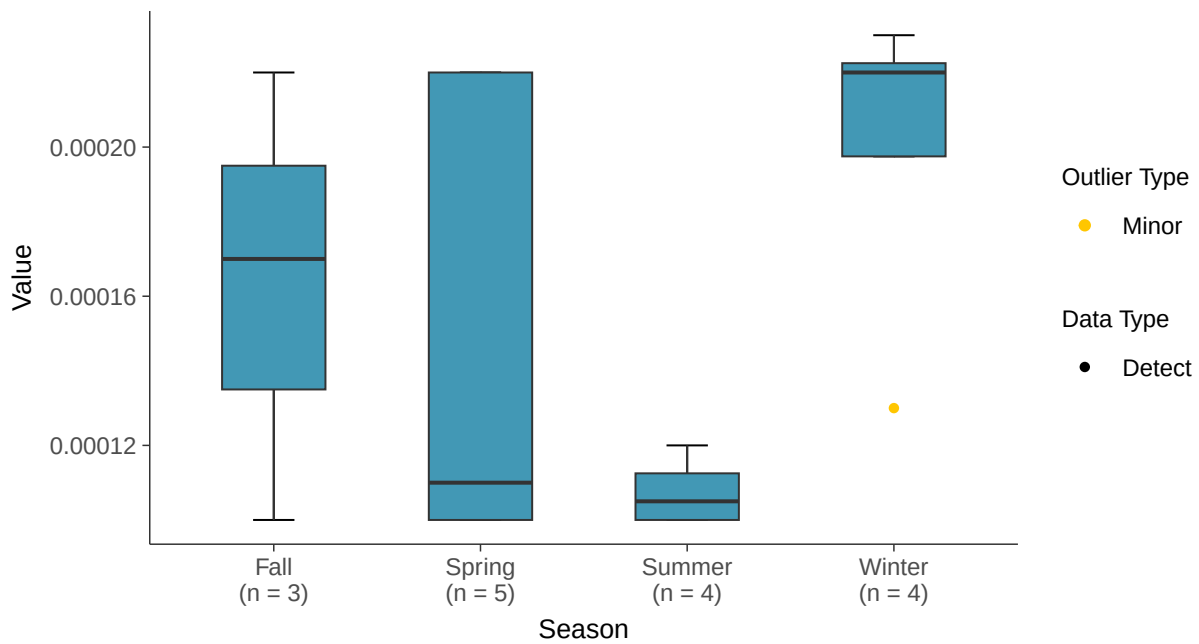
Boxplot

Selenium, MW-07 (mg/L)



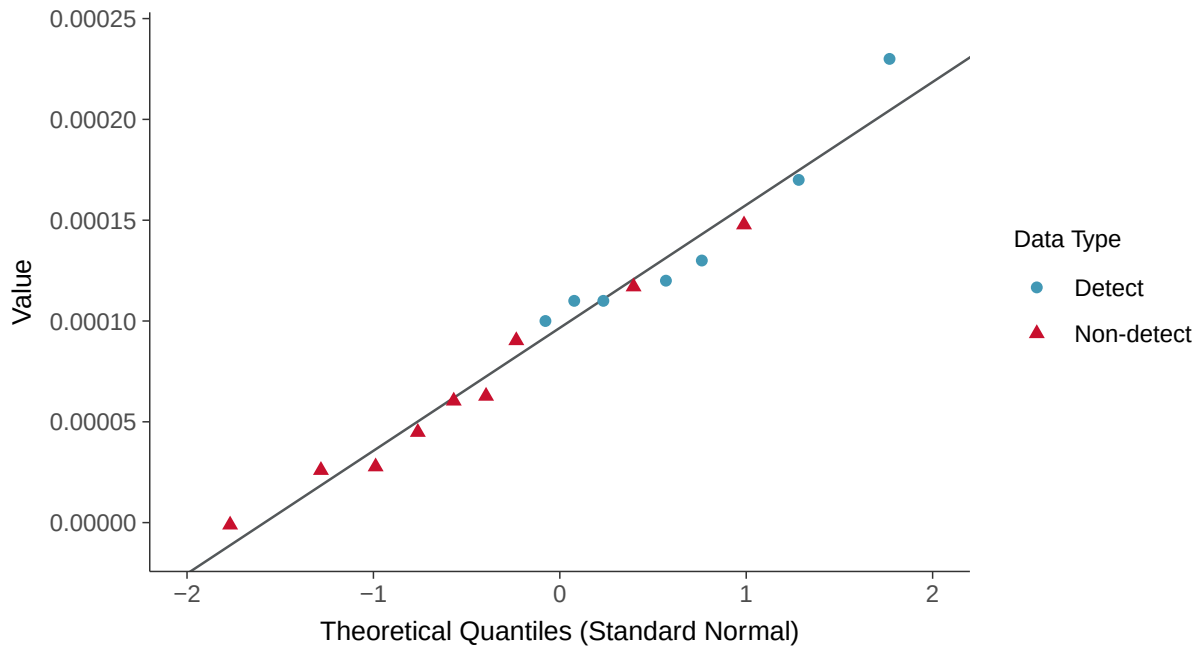
Boxplot by Season

Selenium, MW-07 (mg/L)



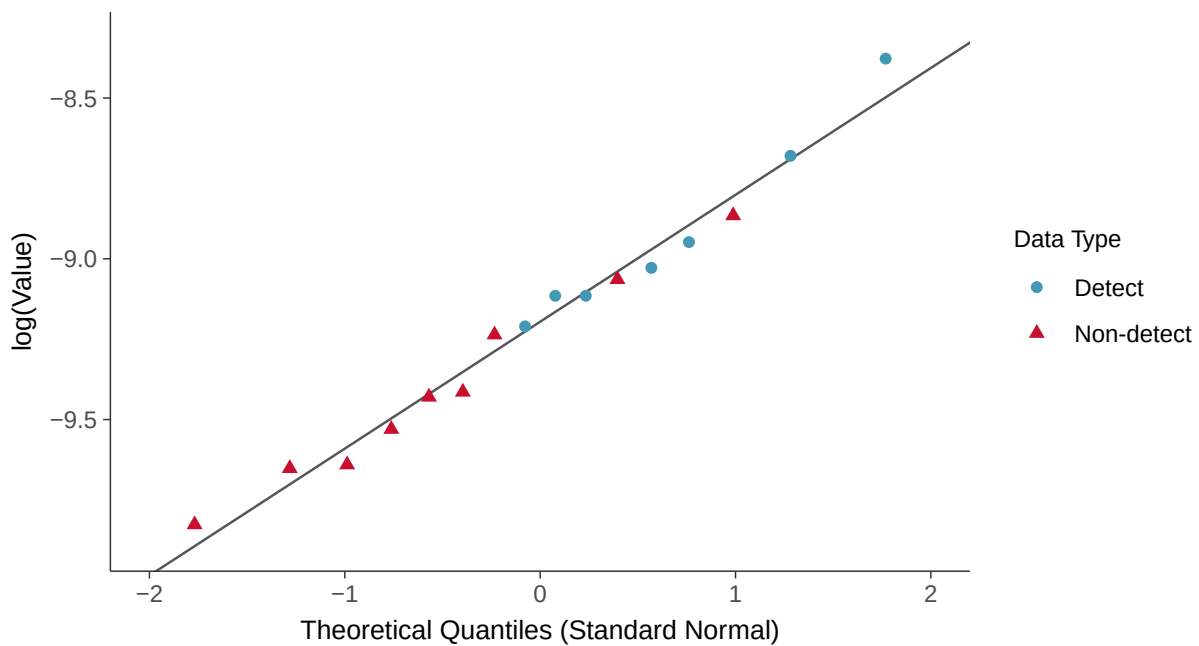
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-07 (mg/L)



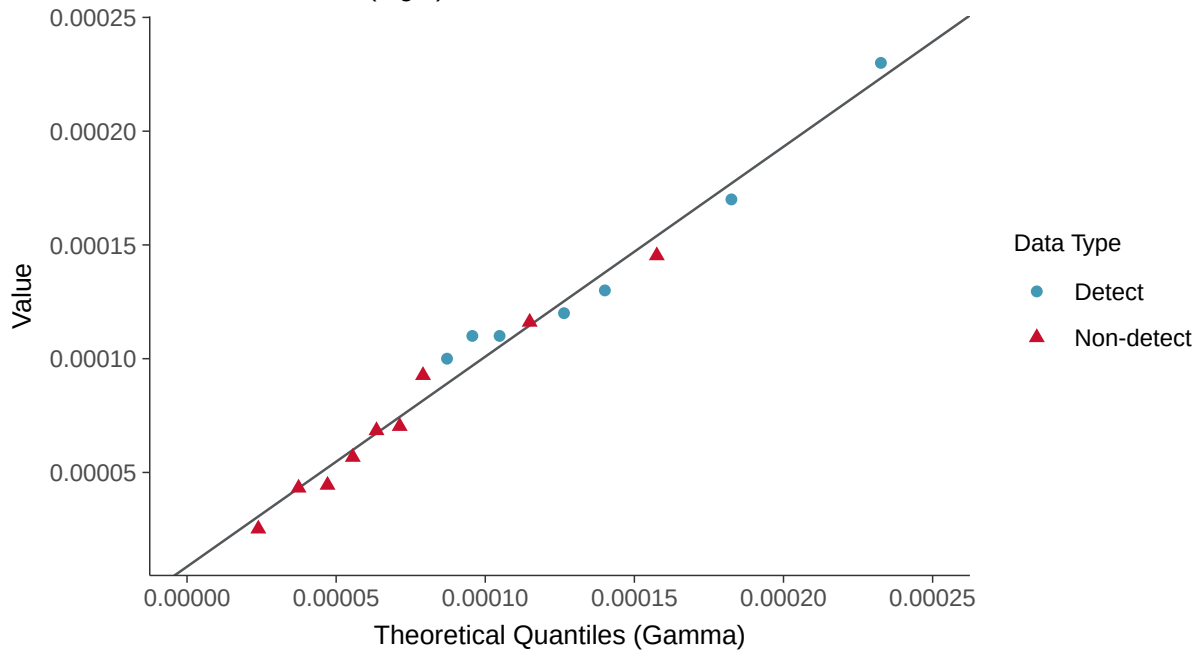
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-07 (mg/L)



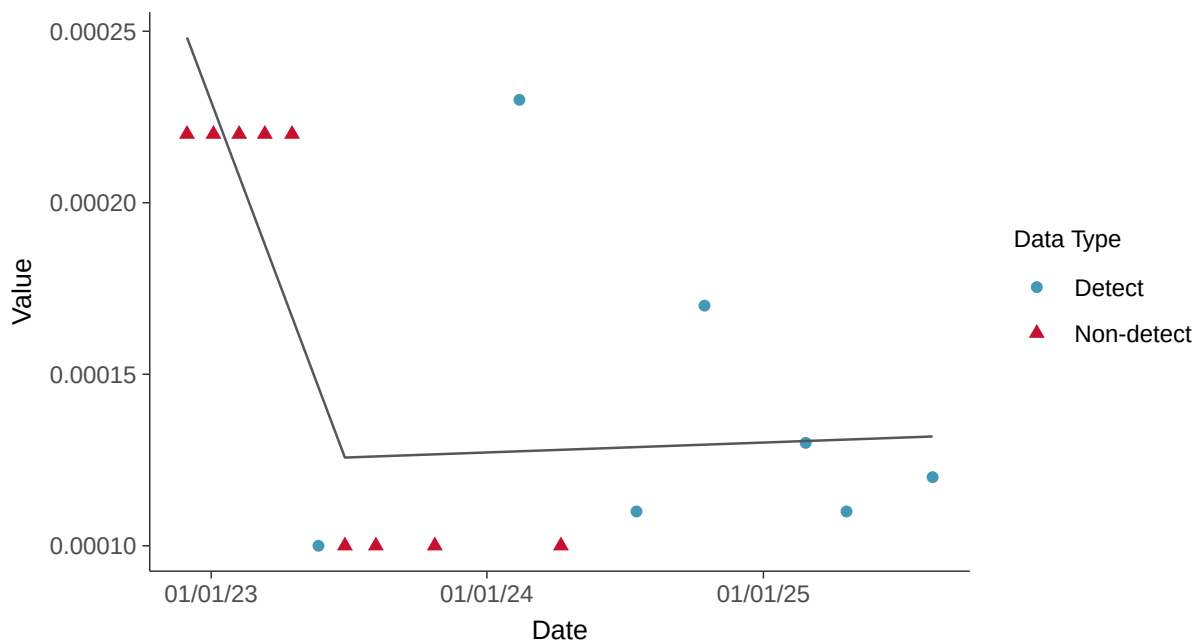
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-07 (mg/L)



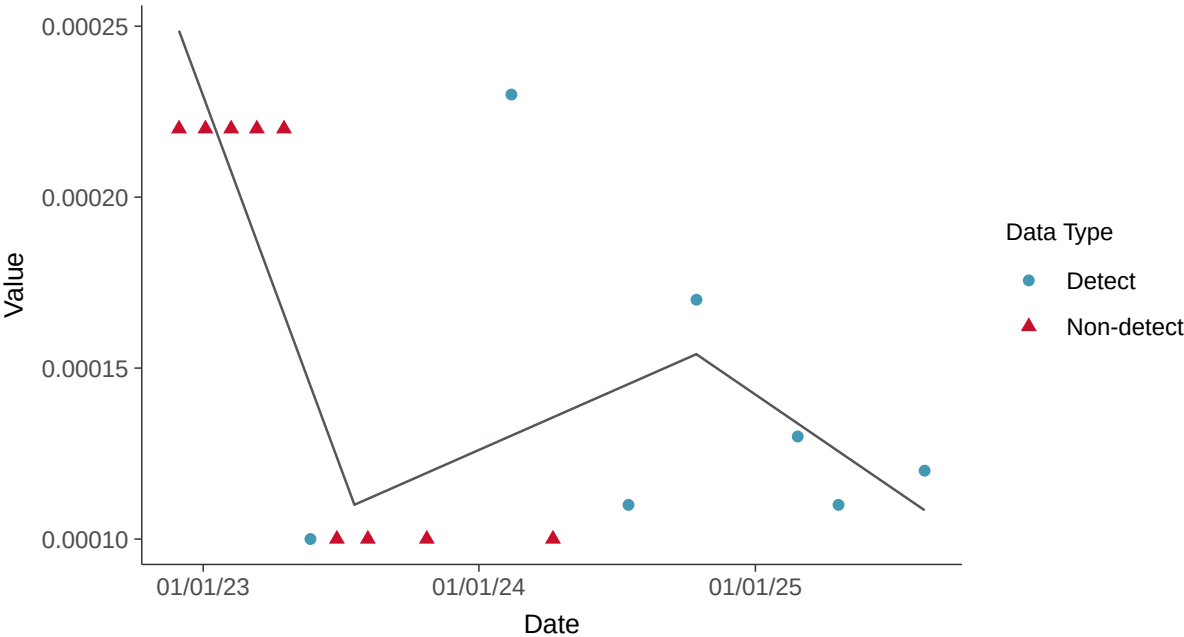
Trend Regression: Piecewise Linear-Linear

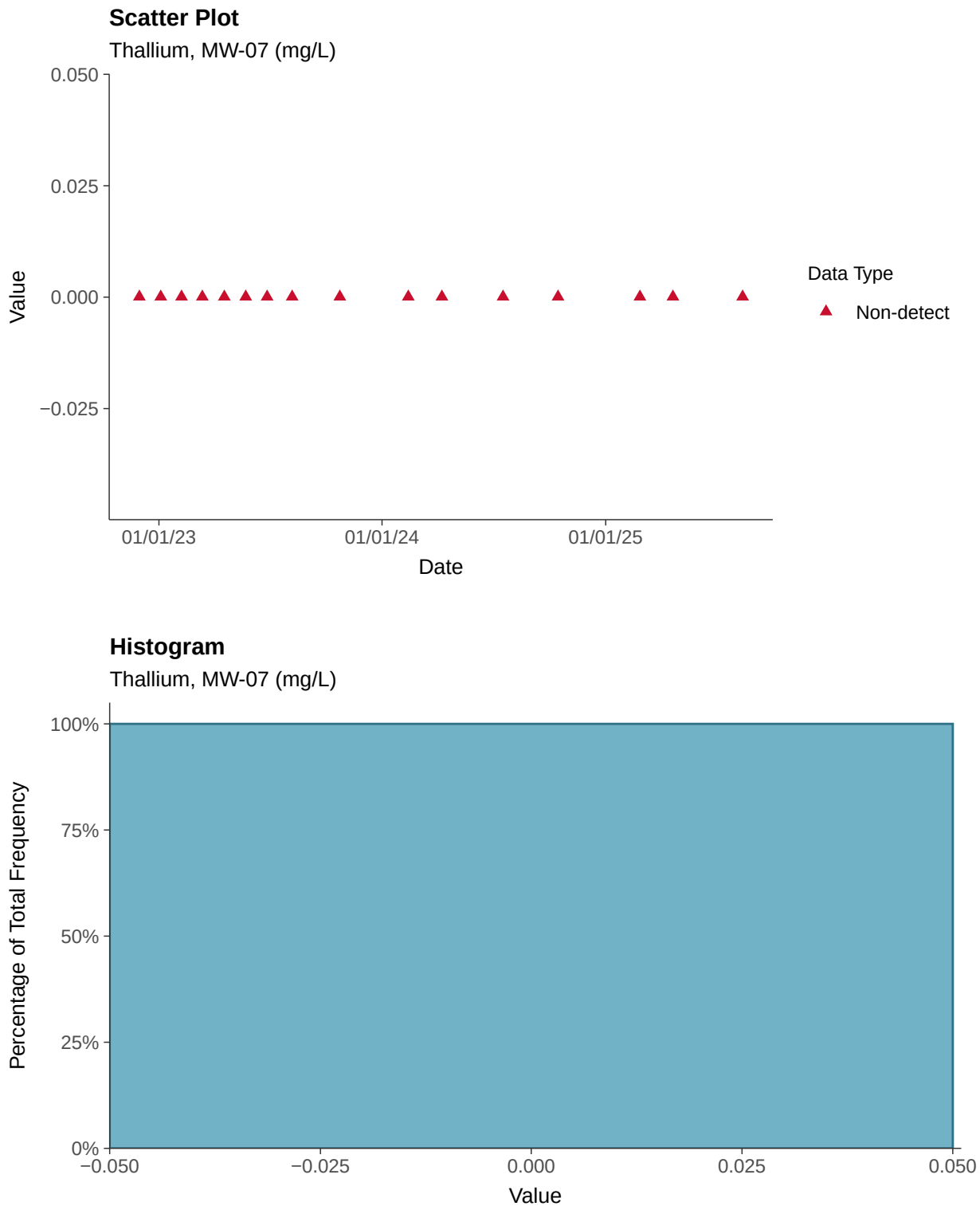
Selenium, MW-07 (mg/L)

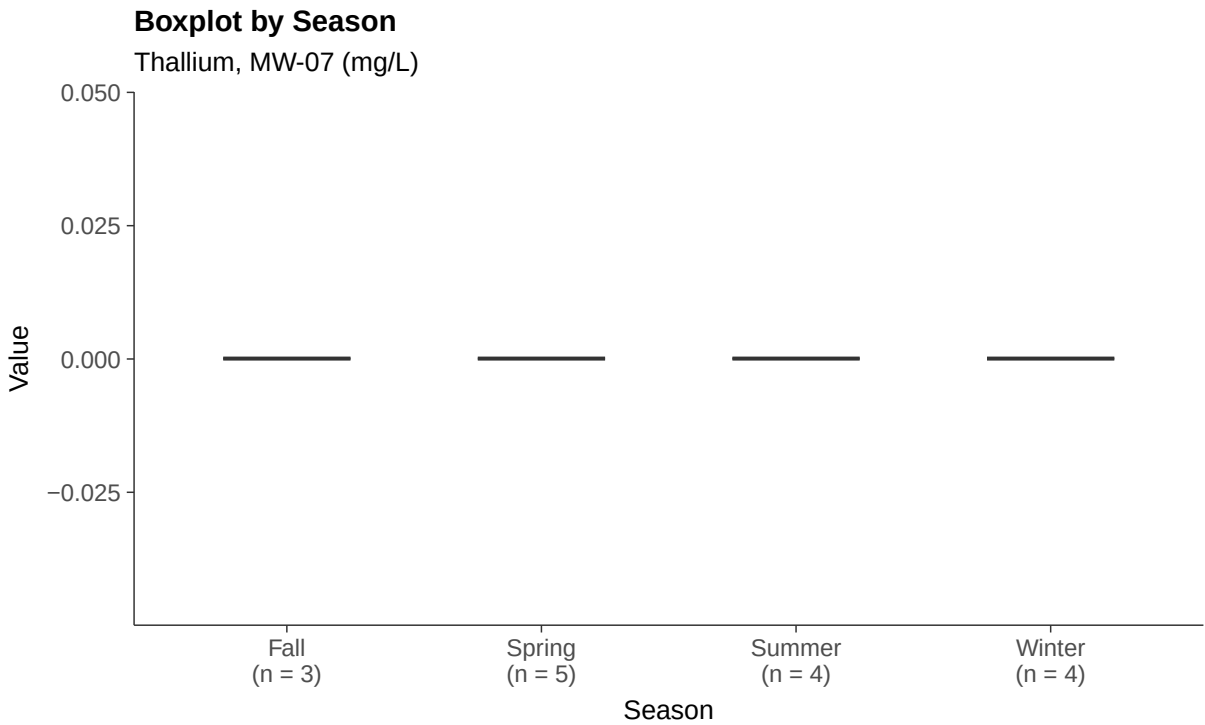
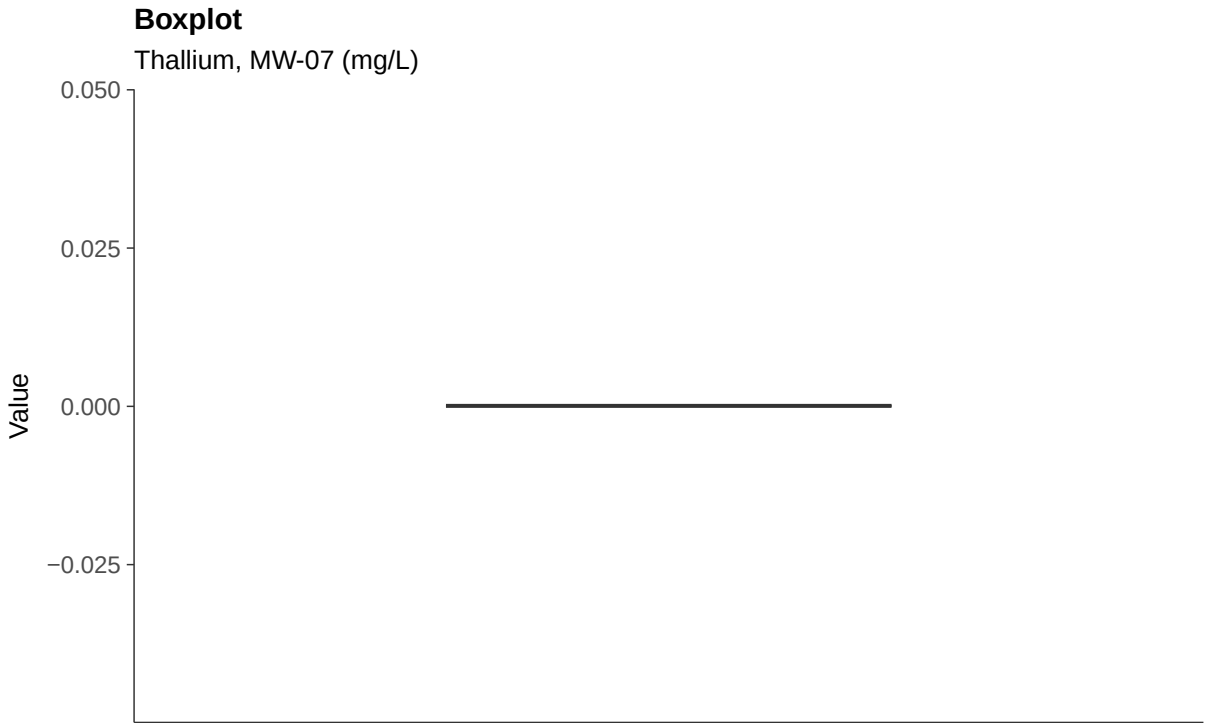


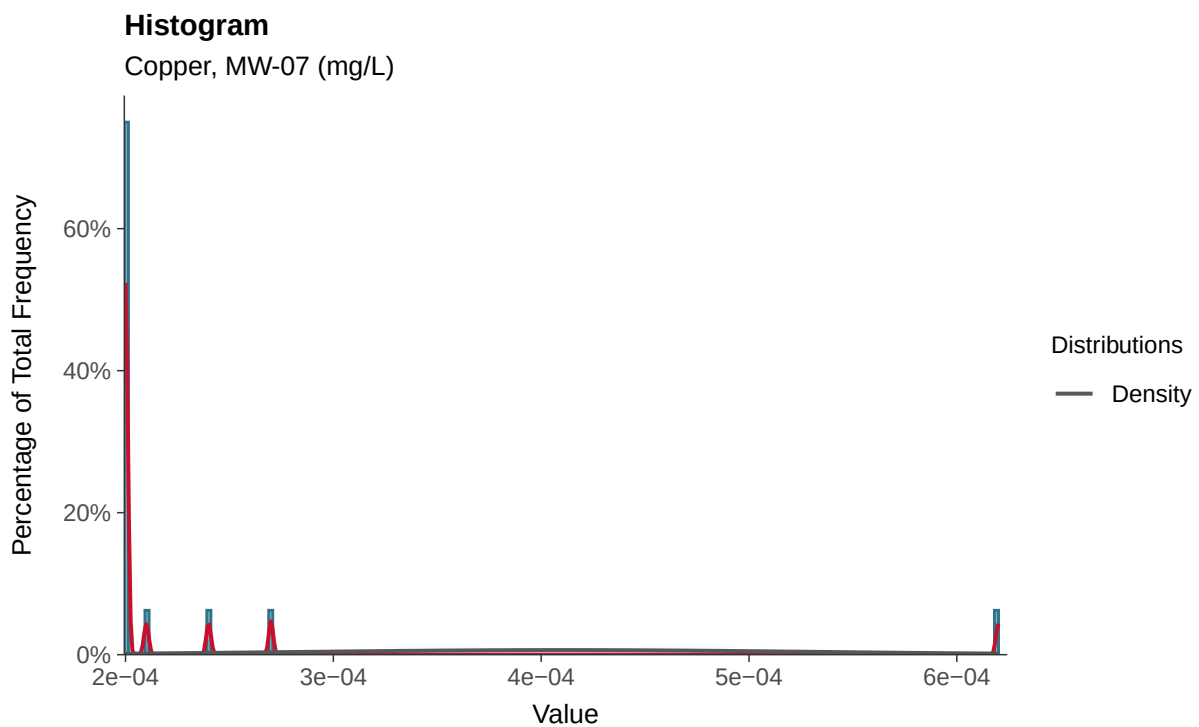


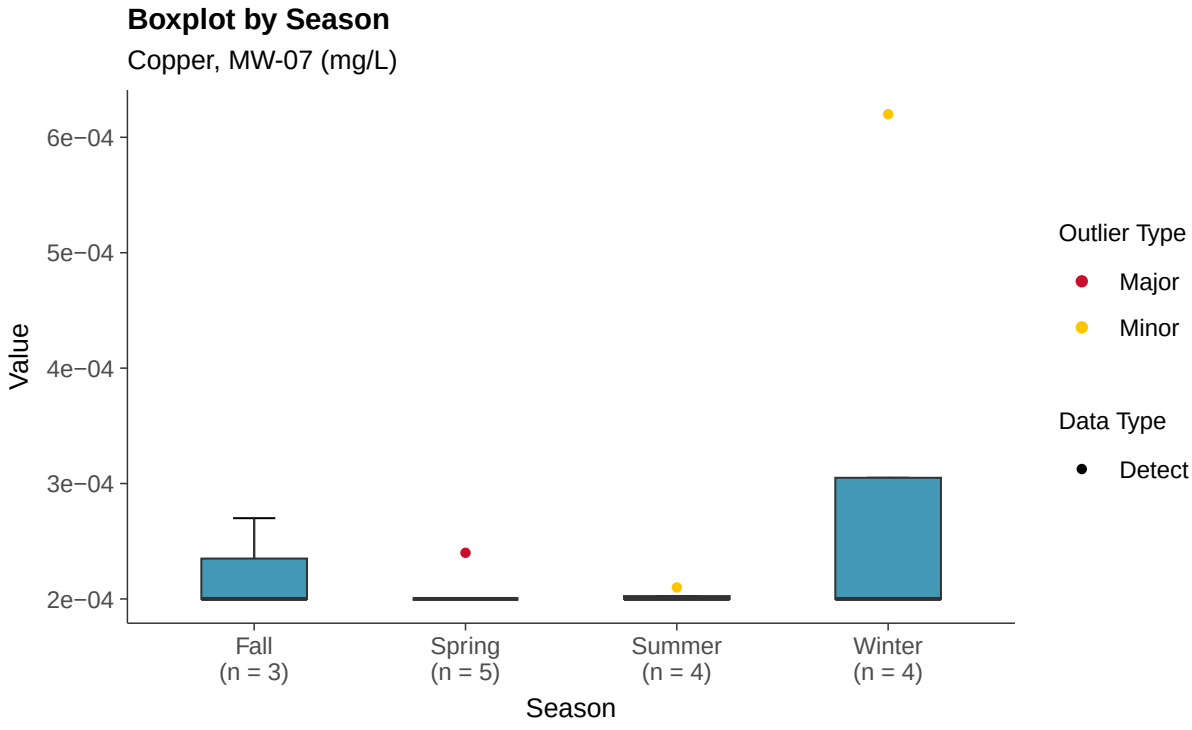
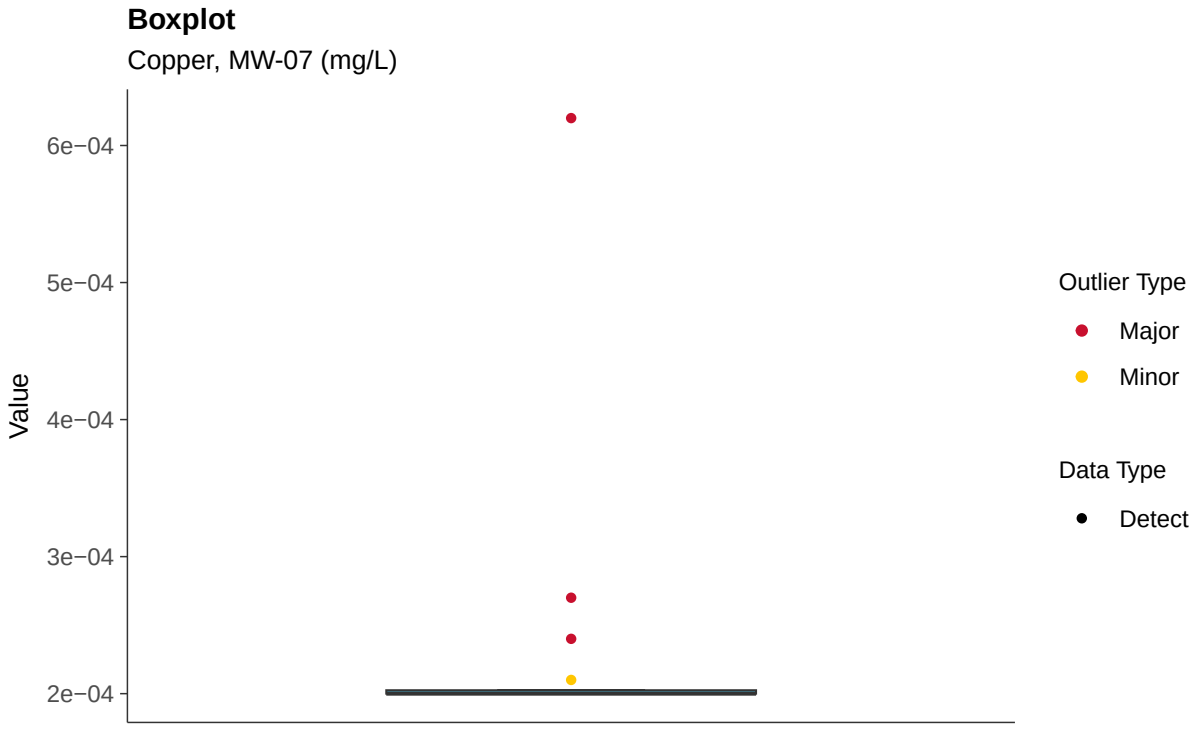
Trend Regression: Piecewise Linear-Linear-Linear
Selenium, MW-07 (mg/L)



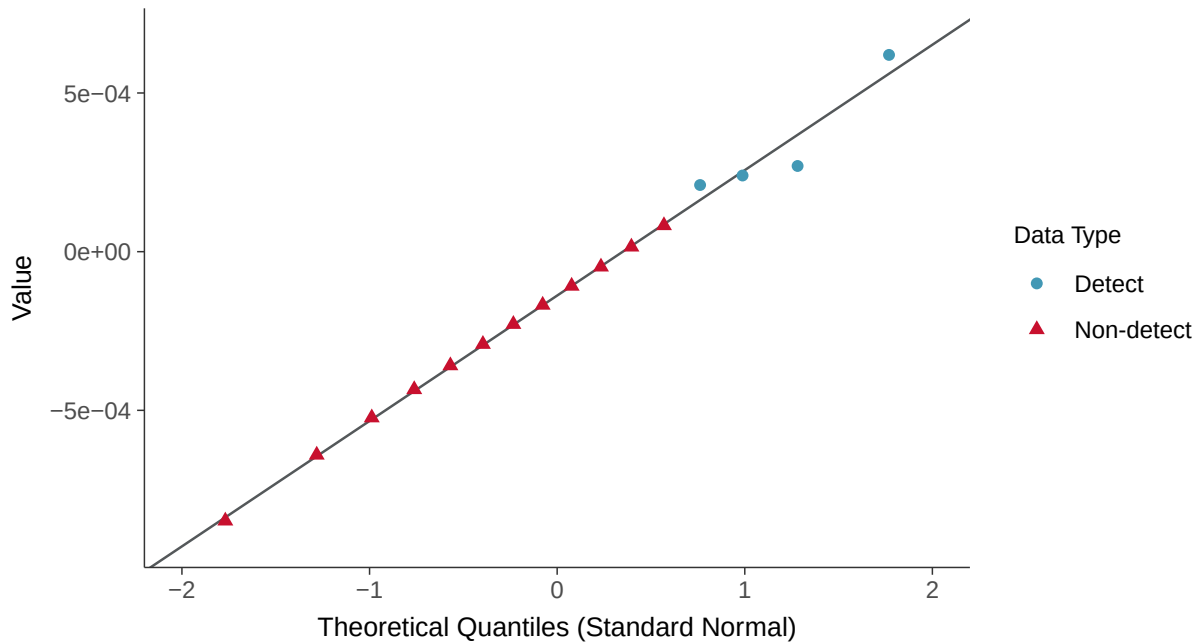




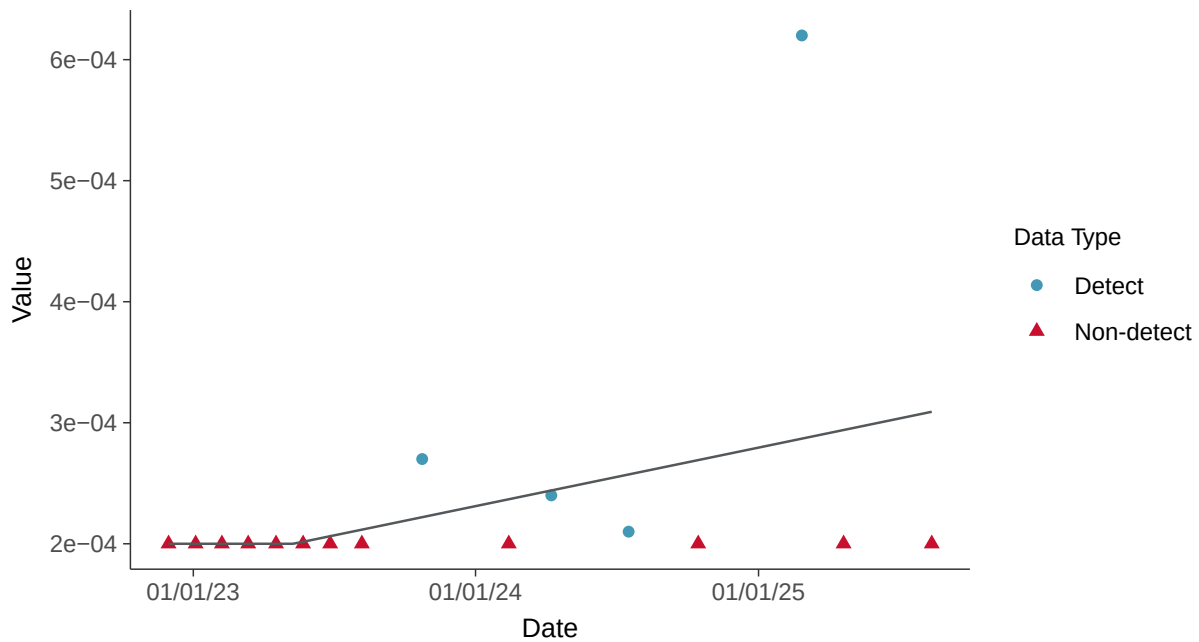




Copper, MW-07 (mg/L)

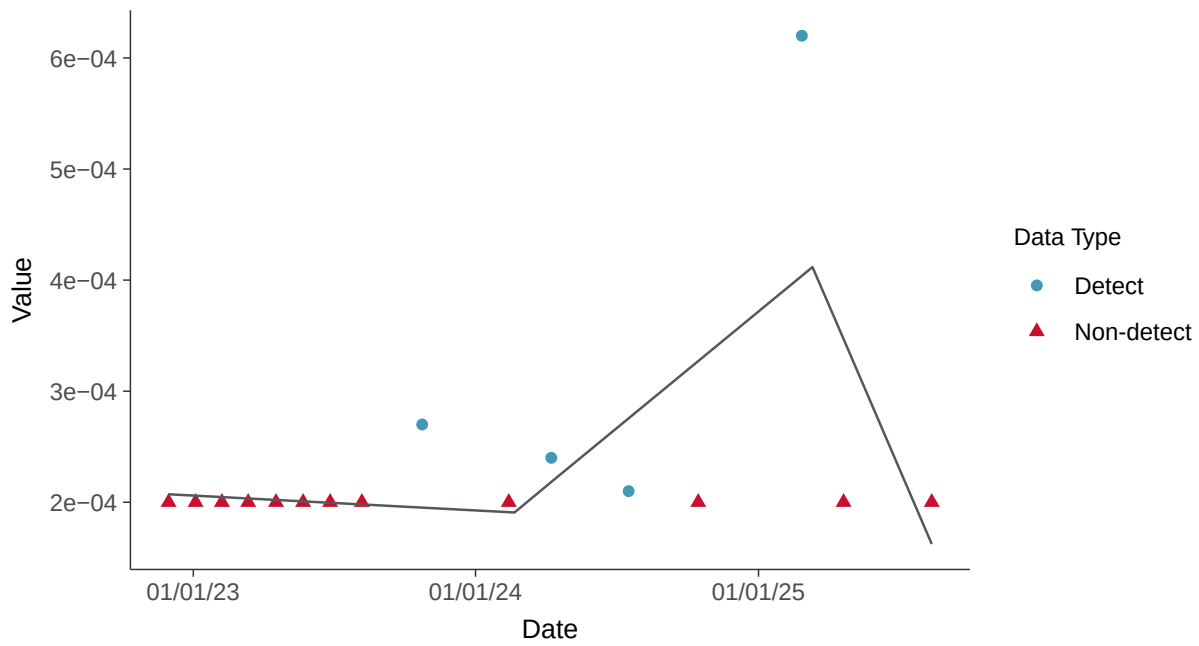


Copper, MW-07 (mg/L)



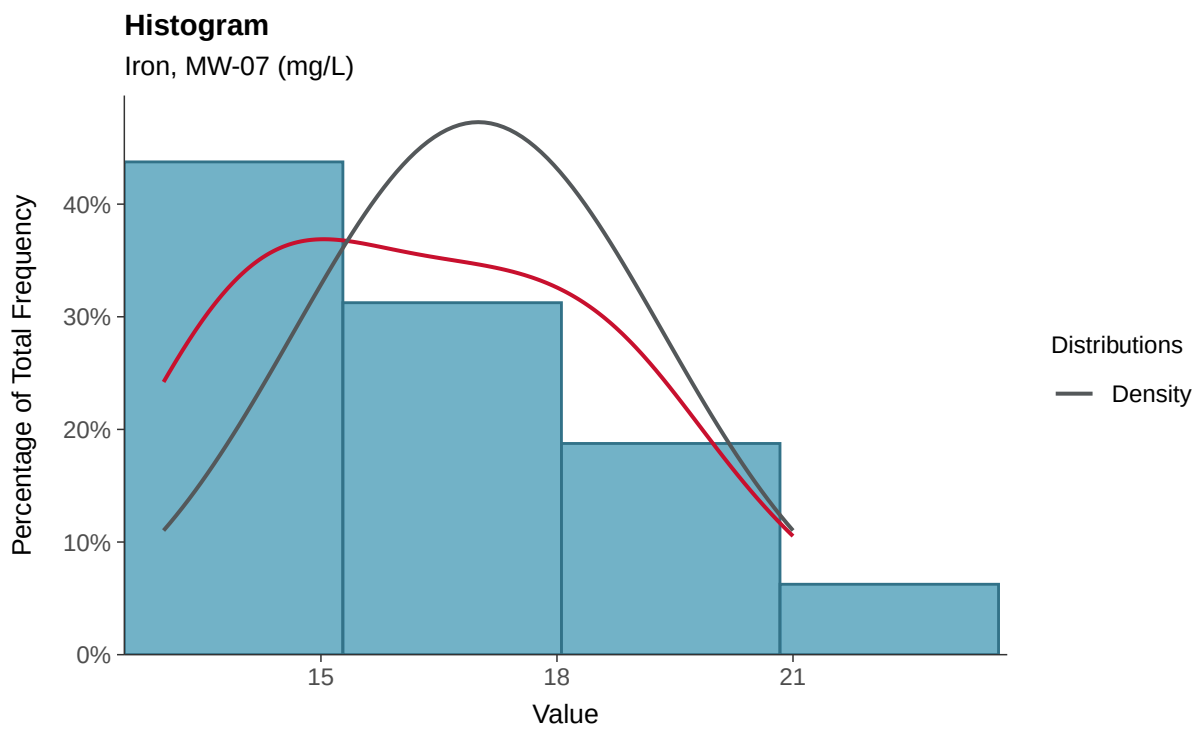
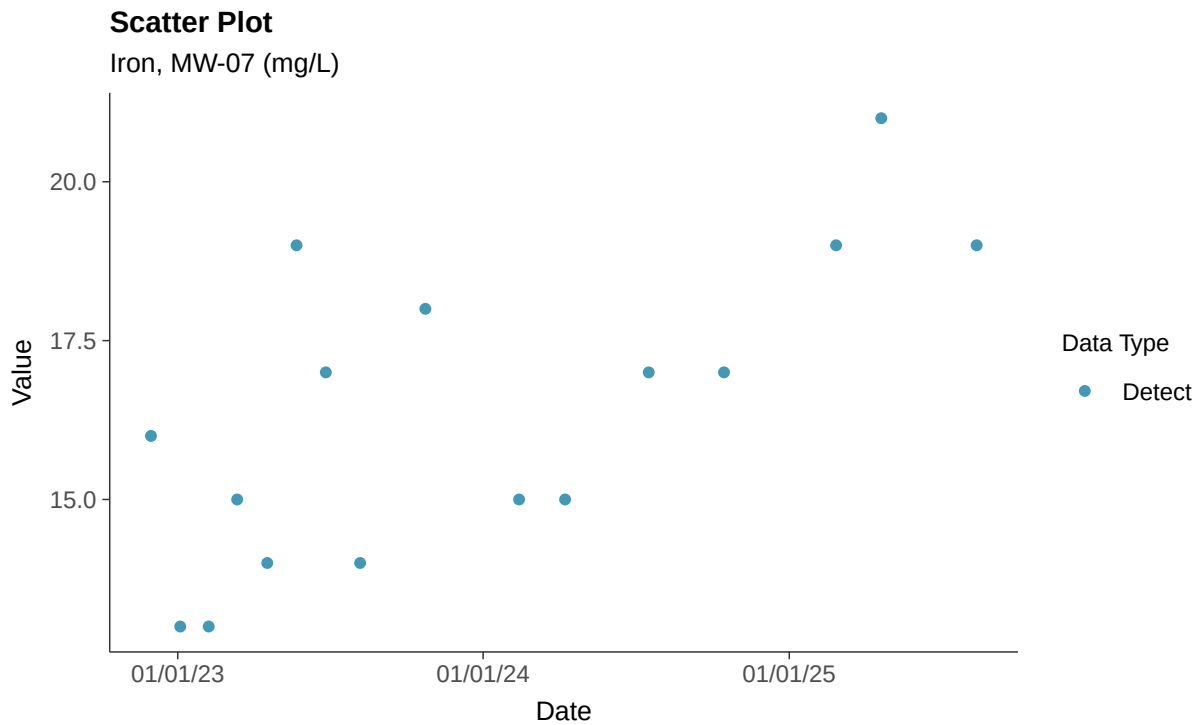


Trend Regression: Piecewise Linear-Linear-Linear
Copper, MW-07 (mg/L)



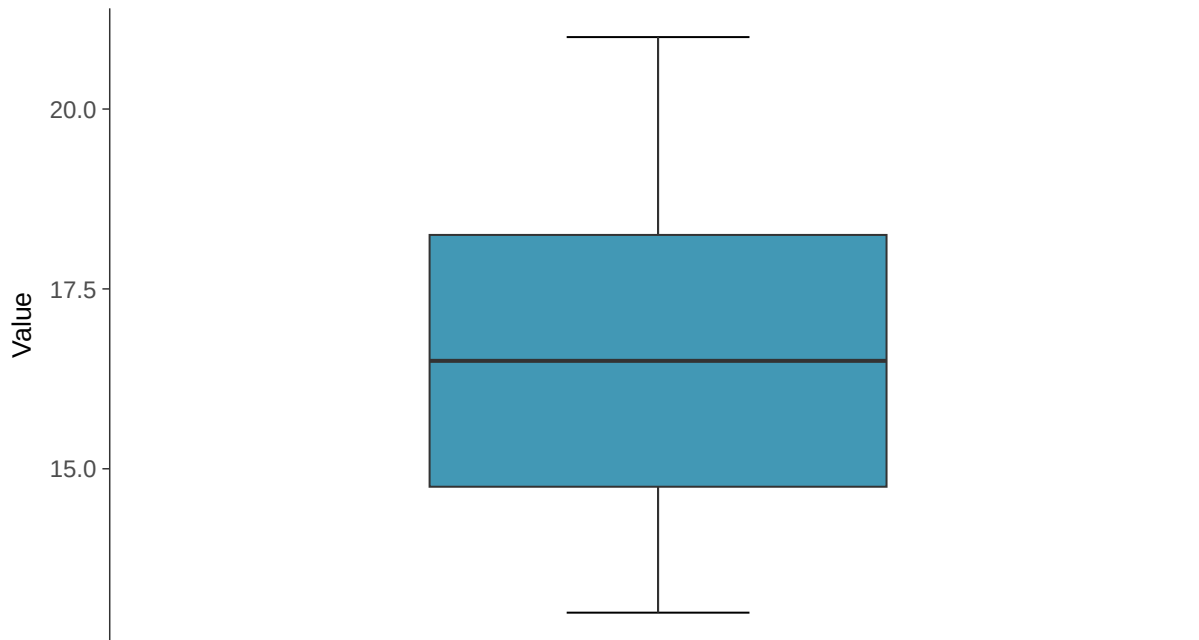
Part 115: Iron, MW-07

ID: 17_1_5_114



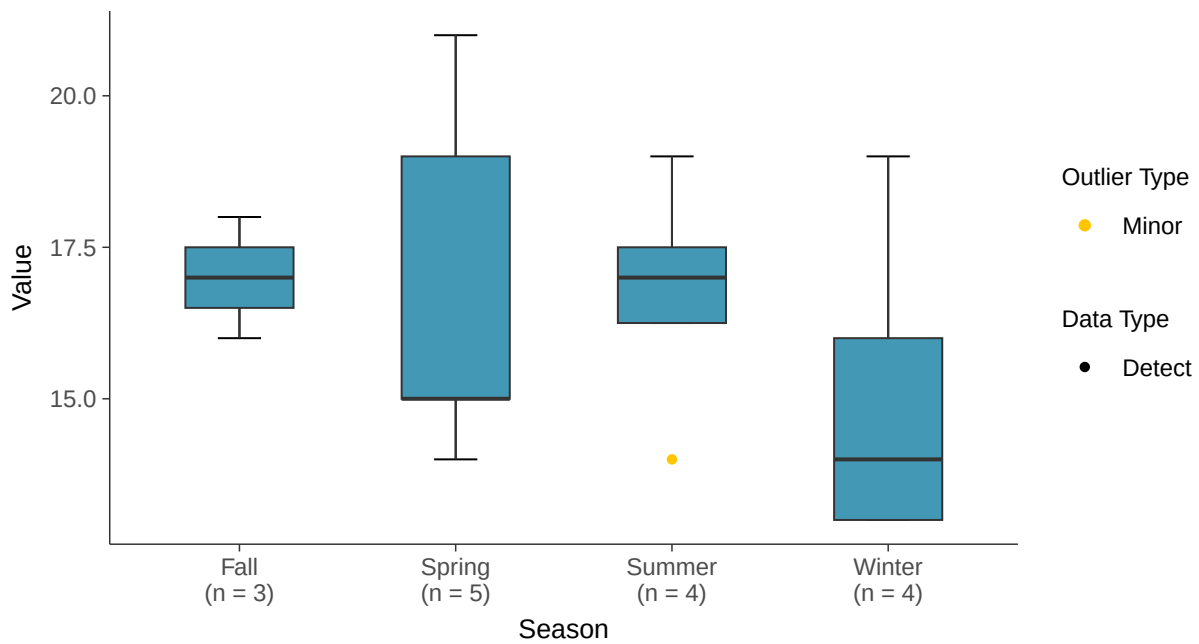
Boxplot

Iron, MW-07 (mg/L)

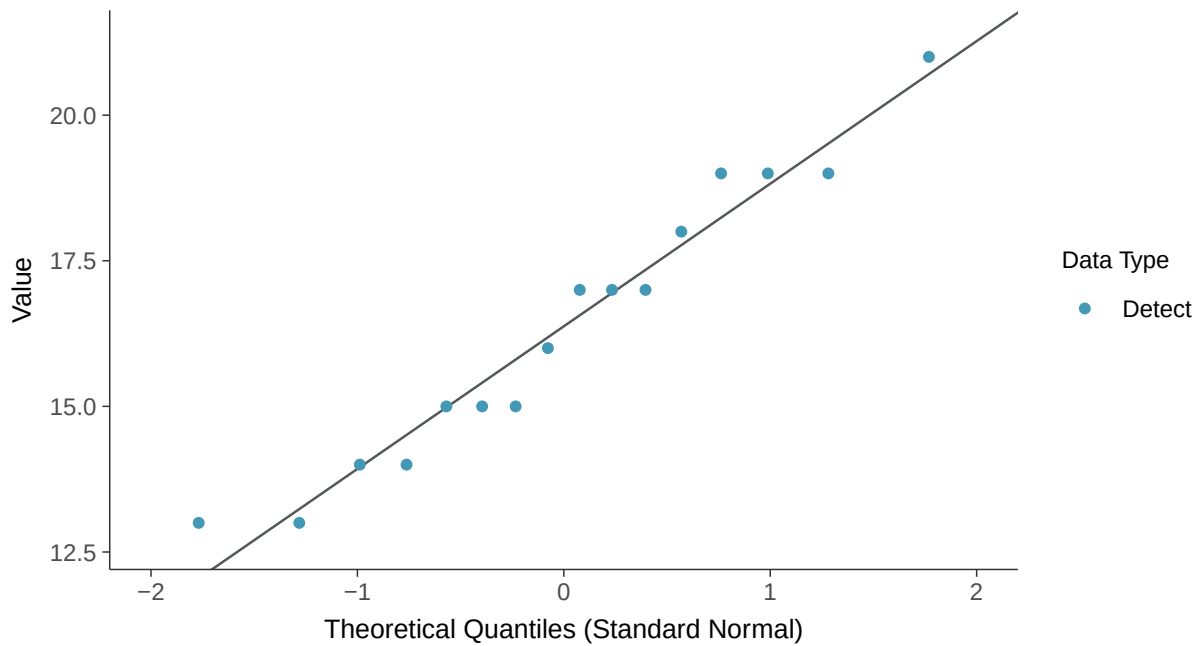


Boxplot by Season

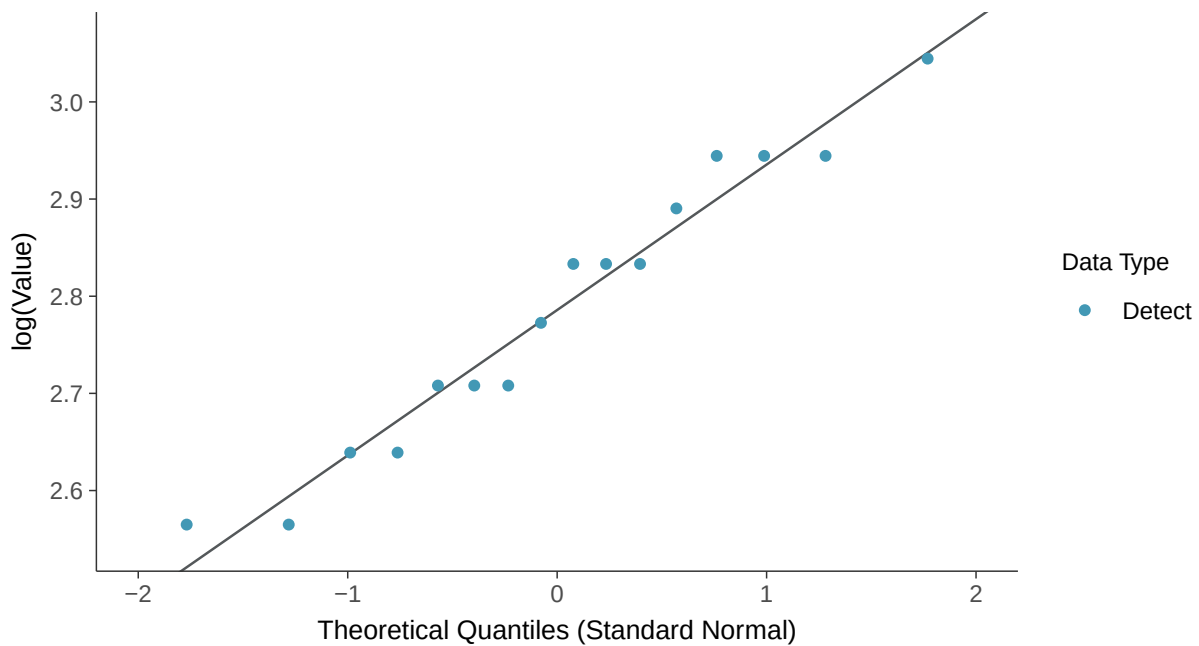
Iron, MW-07 (mg/L)

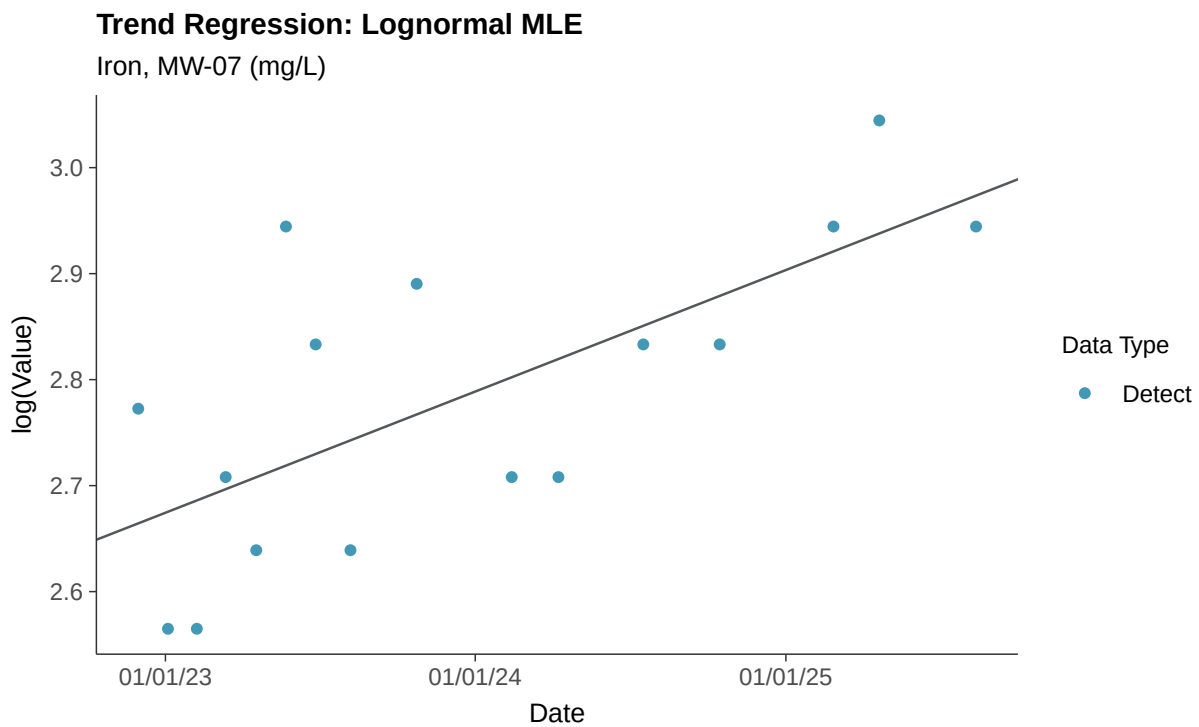
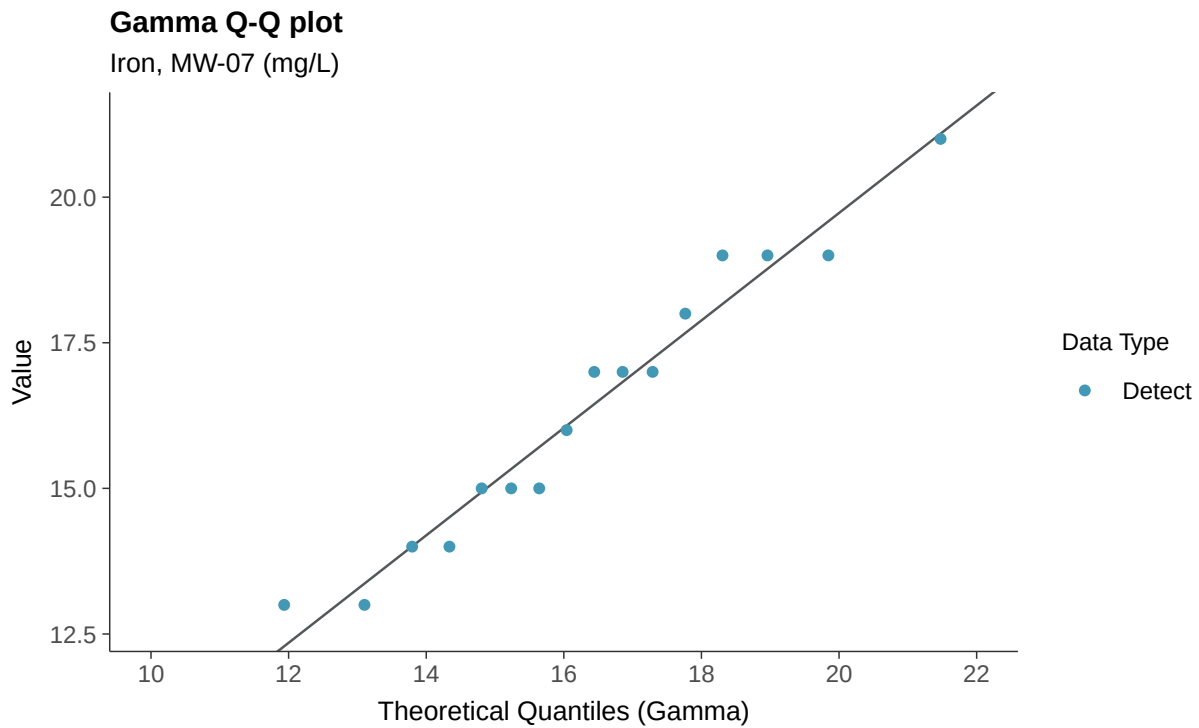


Normal Q-Q plot
Iron, MW-07 (mg/L)

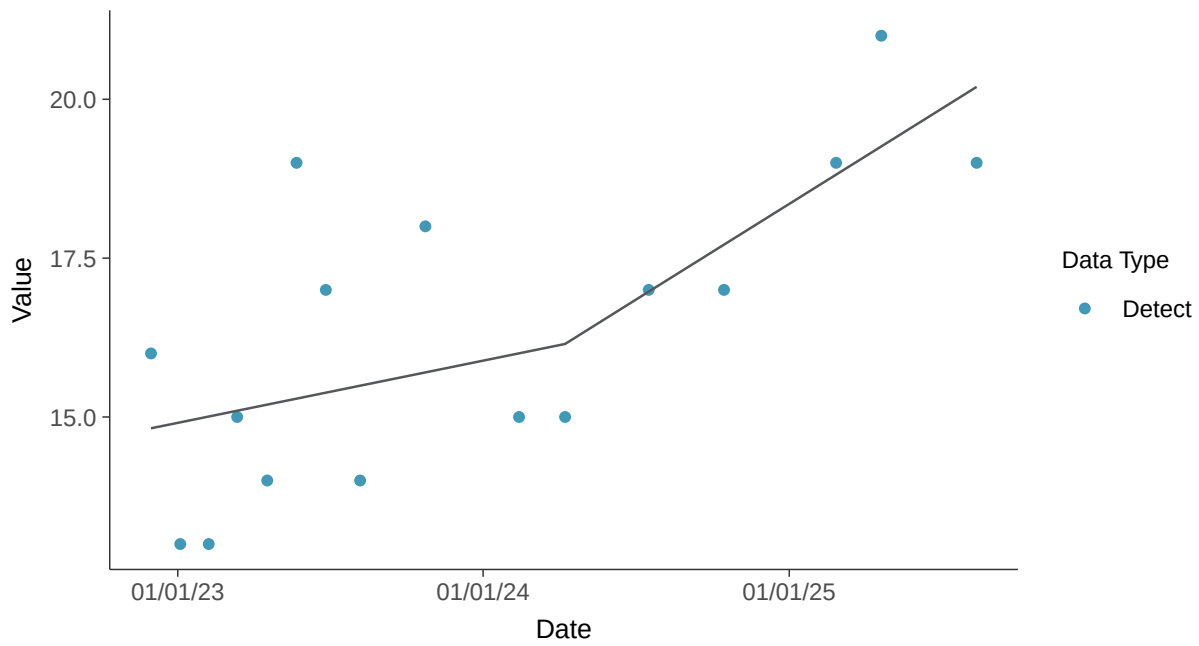


Lognormal Q-Q plot
Iron, MW-07 (mg/L)



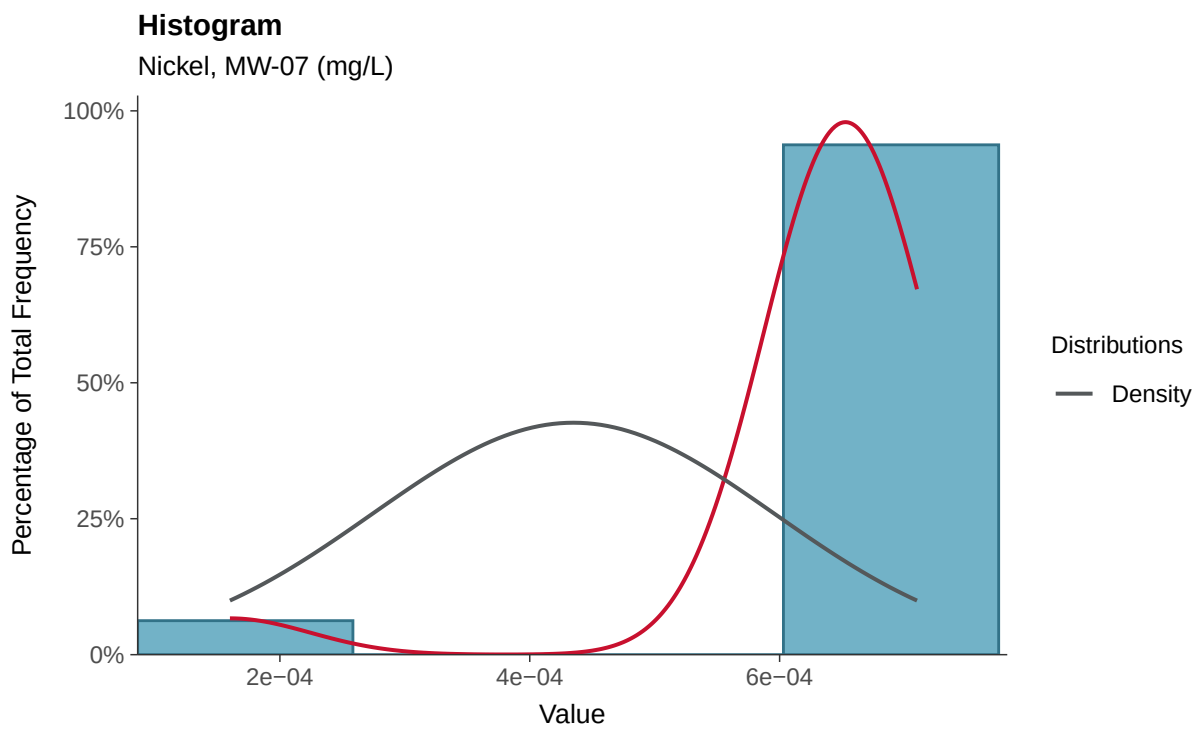
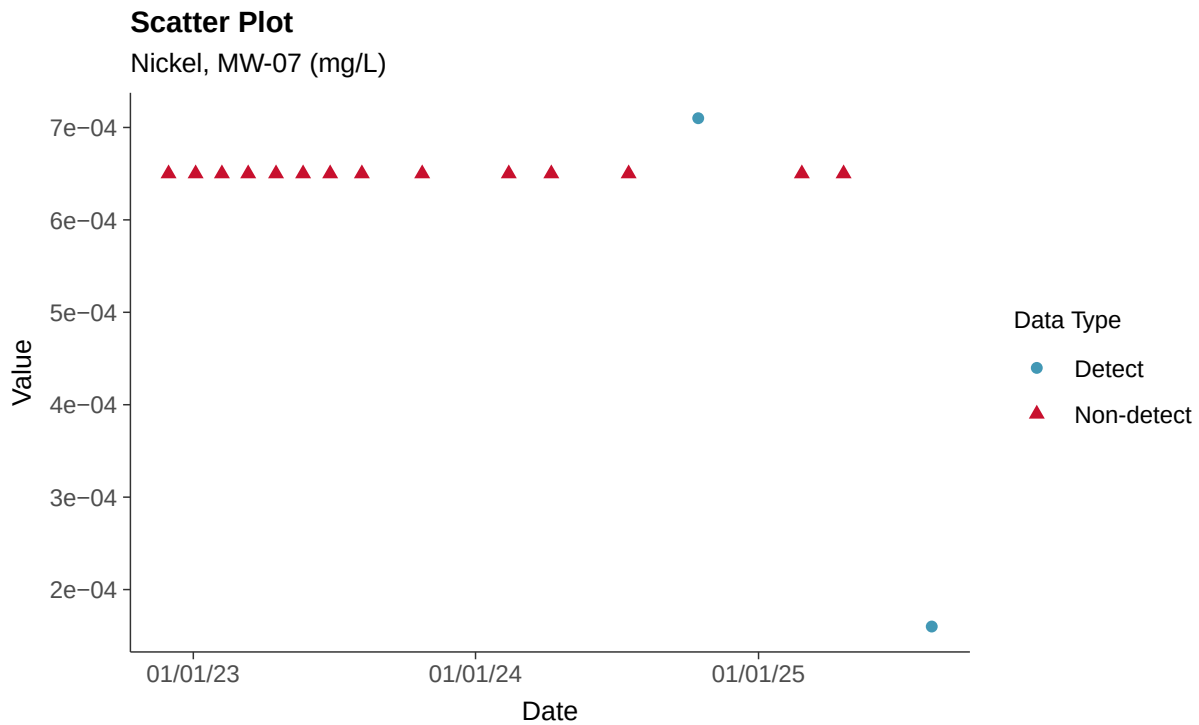


Trend Regression: Piecewise Linear-Linear
Iron, MW-07 (mg/L)



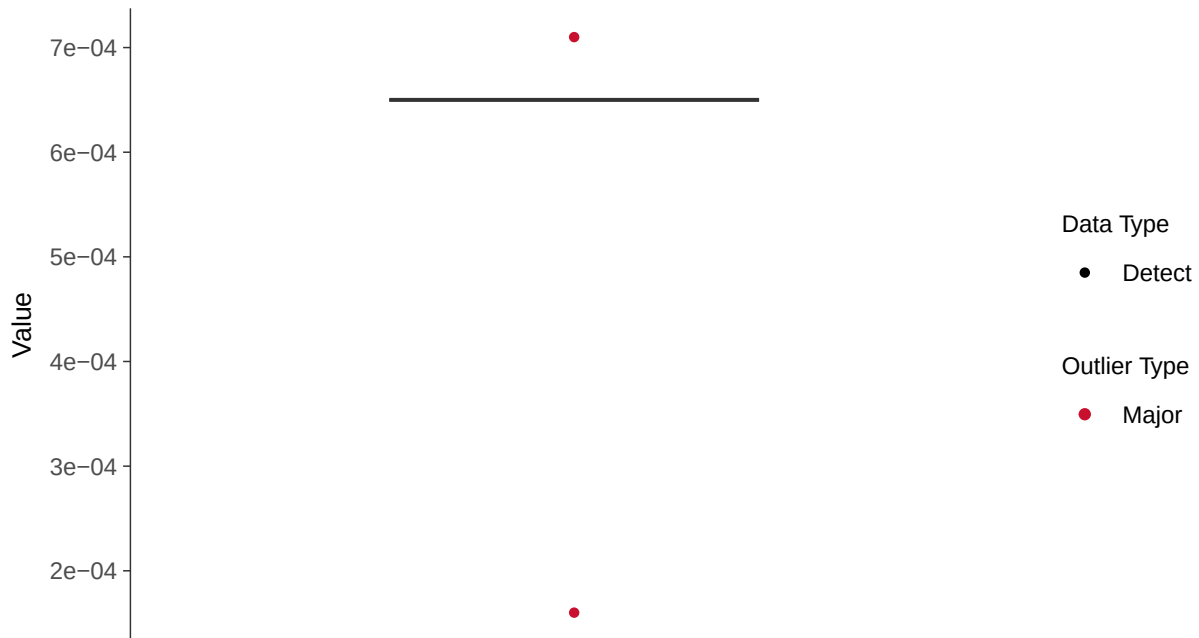
Part 115: Nickel, MW-07

ID: 17_1_5_119



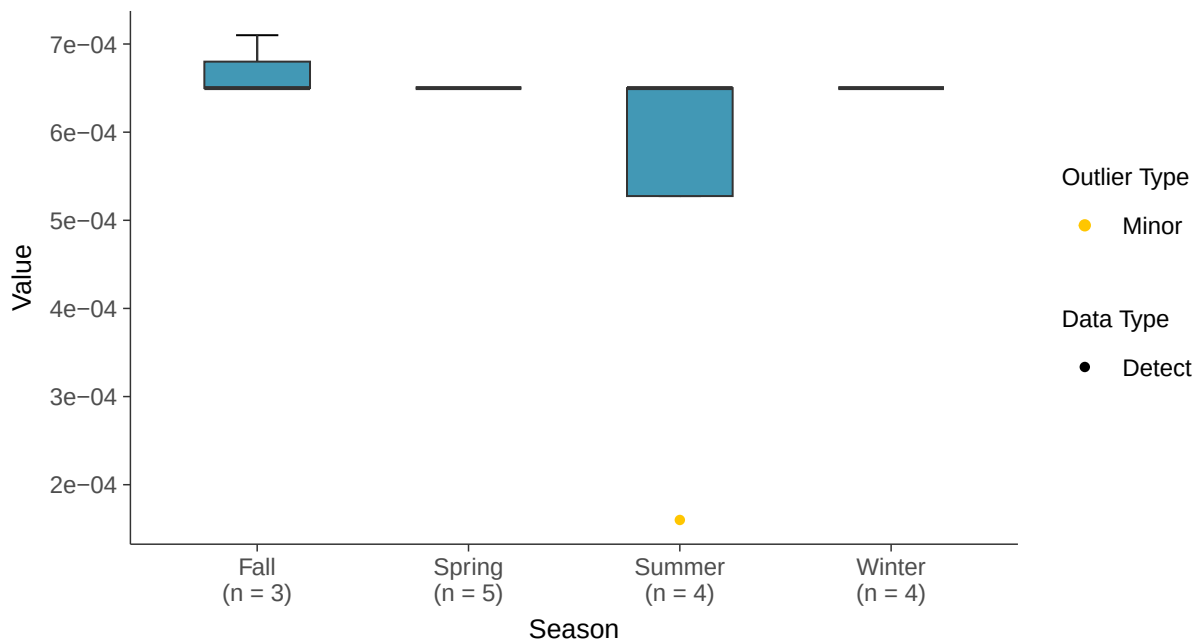
Boxplot

Nickel, MW-07 (mg/L)



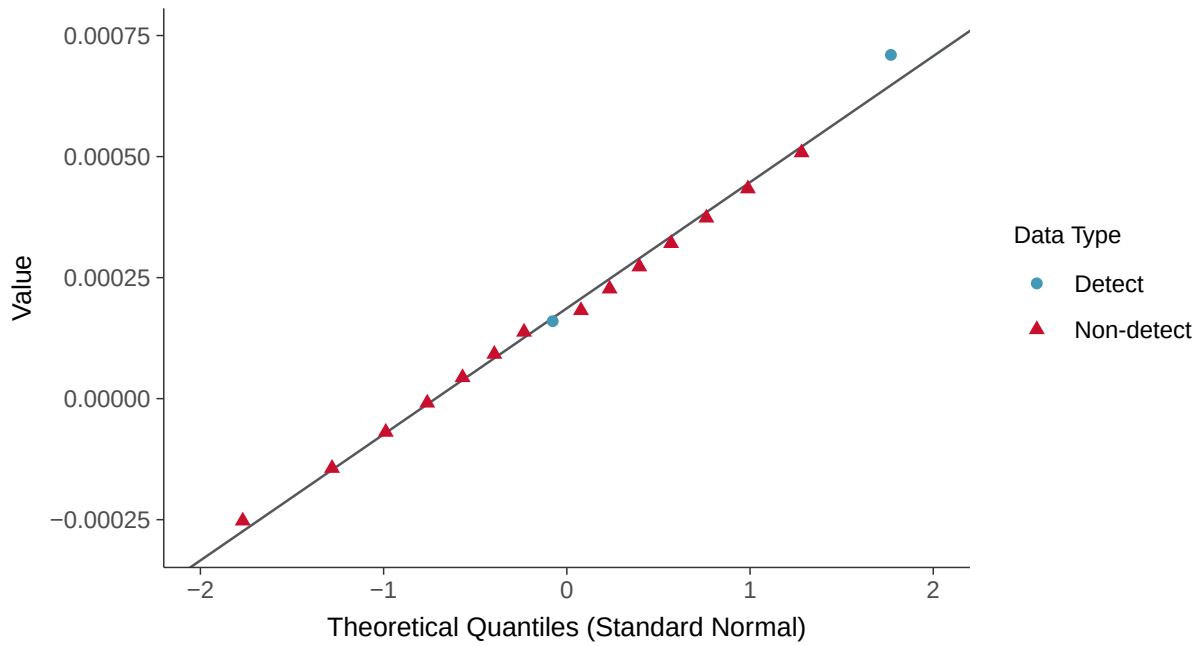
Boxplot by Season

Nickel, MW-07 (mg/L)



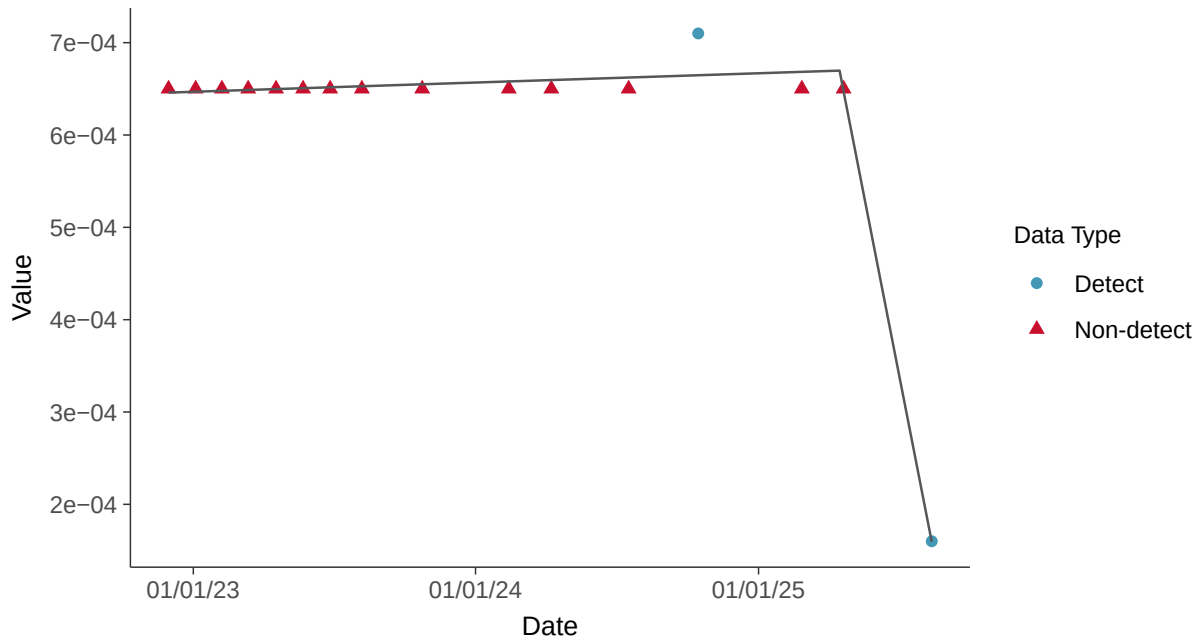
Normal Q-Q plot using ROS Imputed Estimates

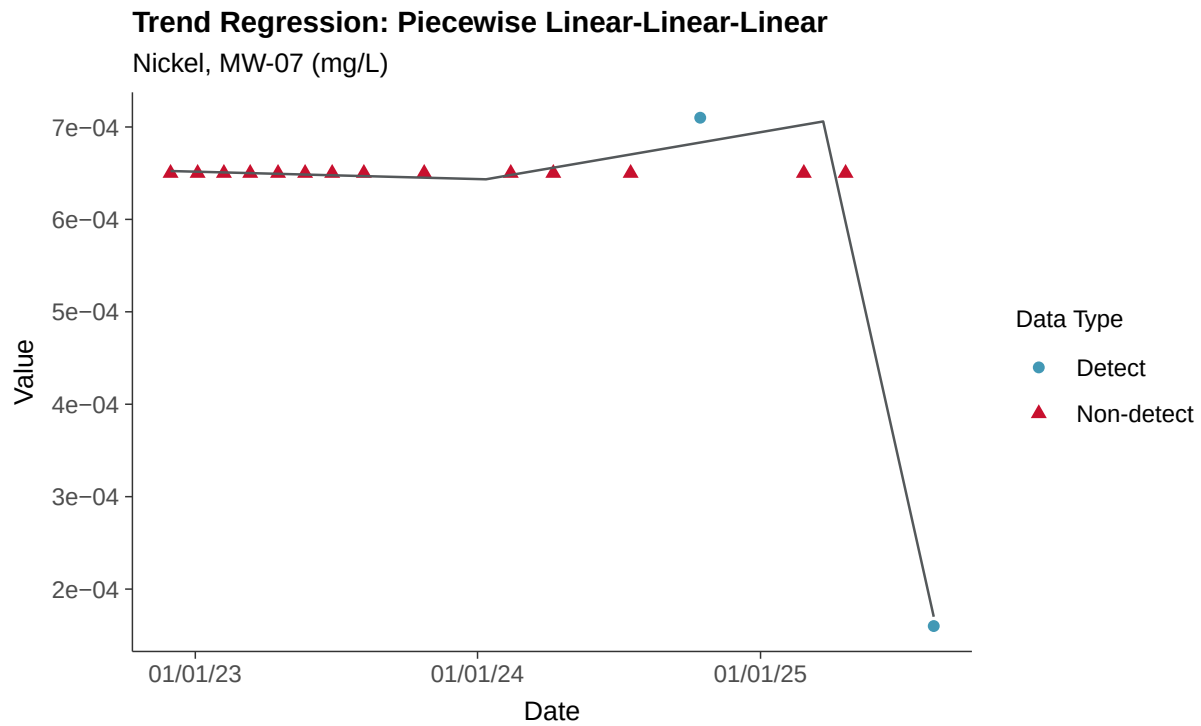
Nickel, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear

Nickel, MW-07 (mg/L)

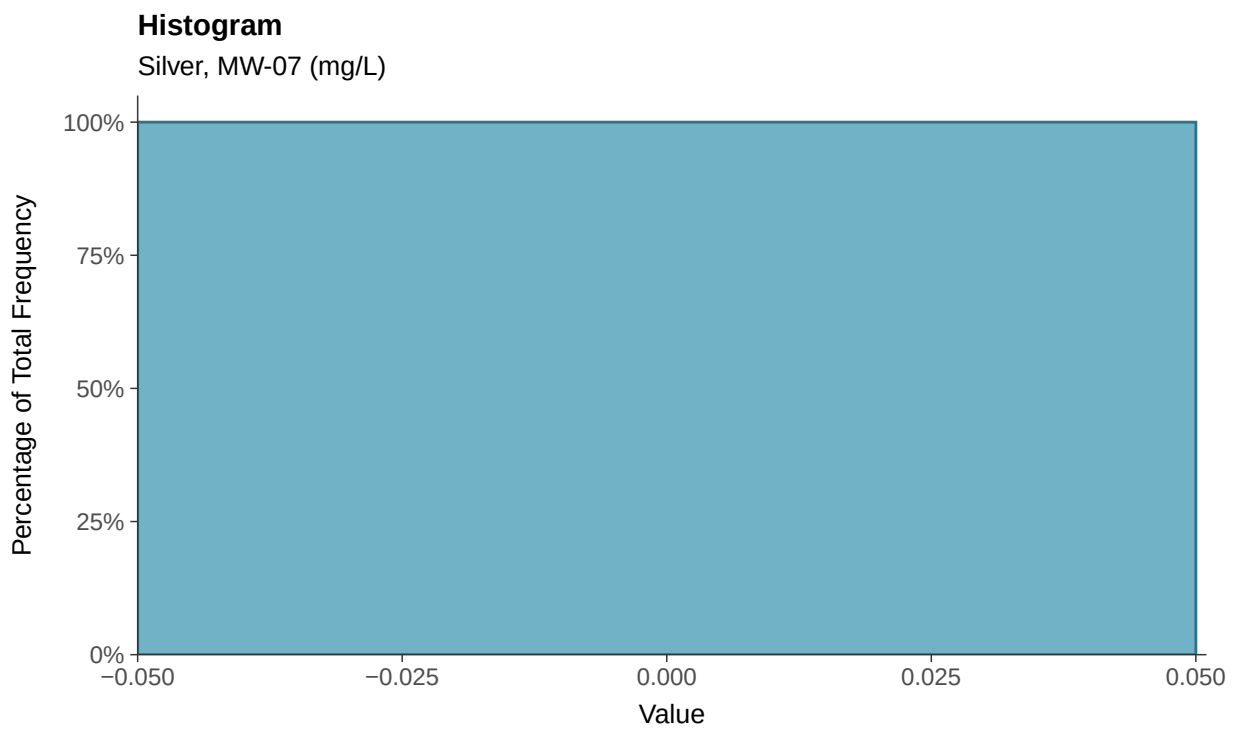
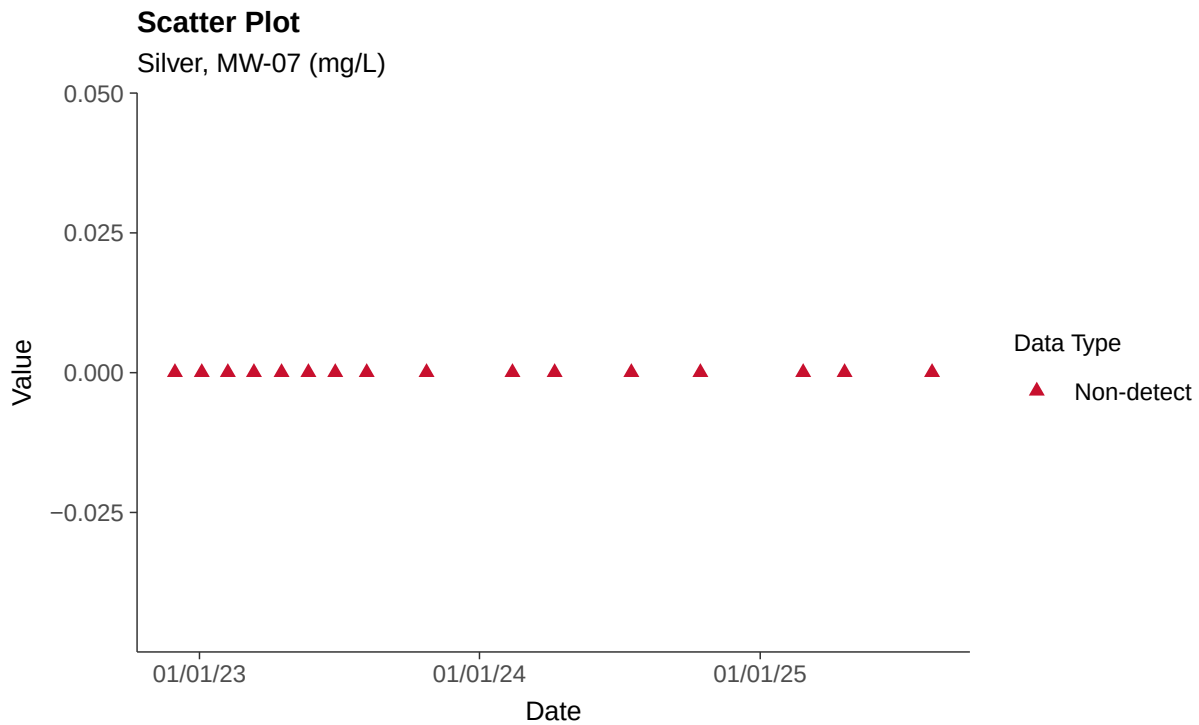


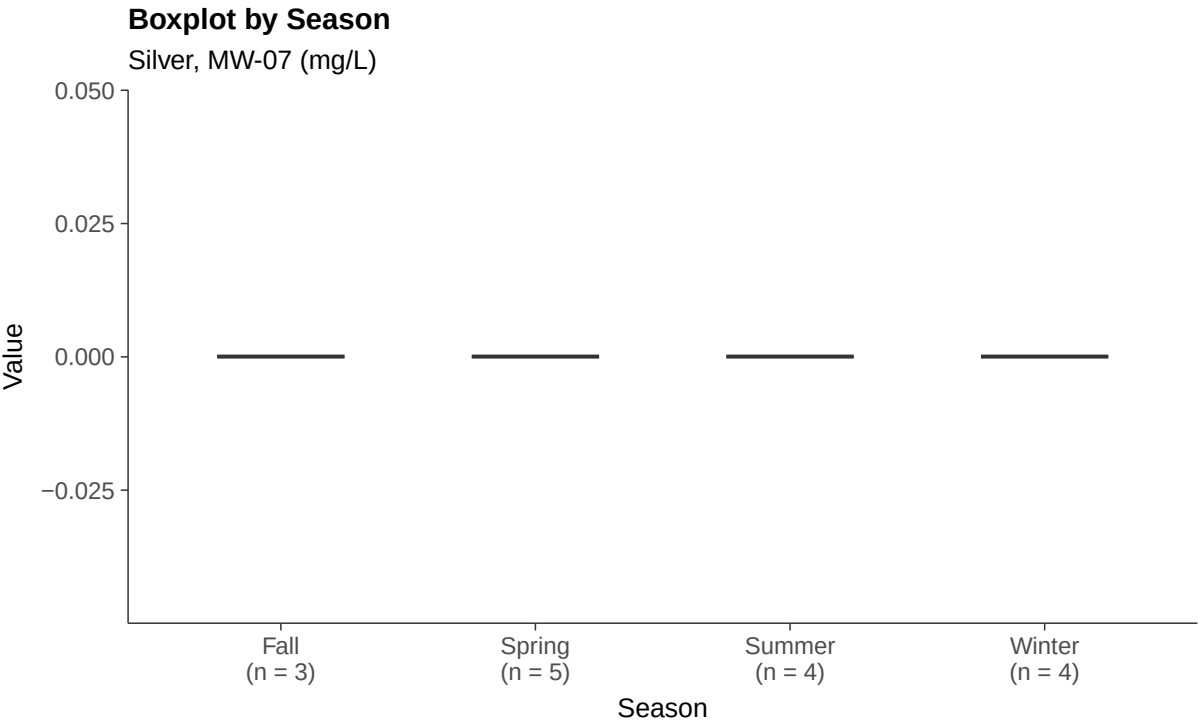
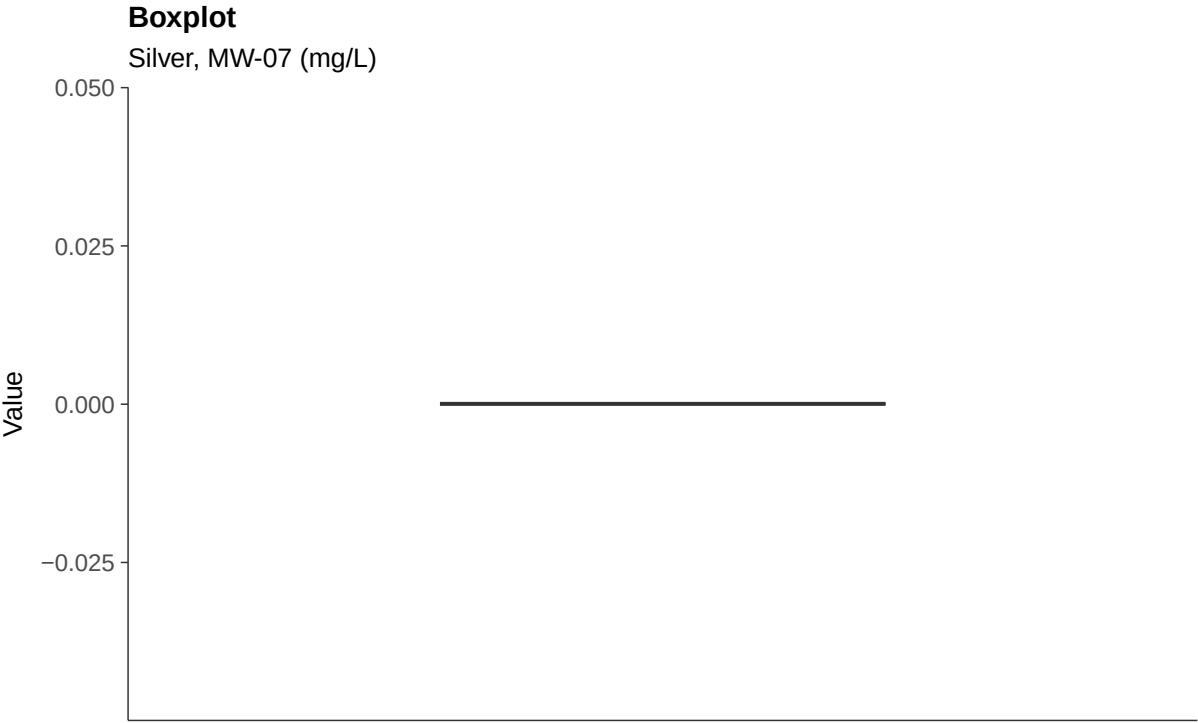


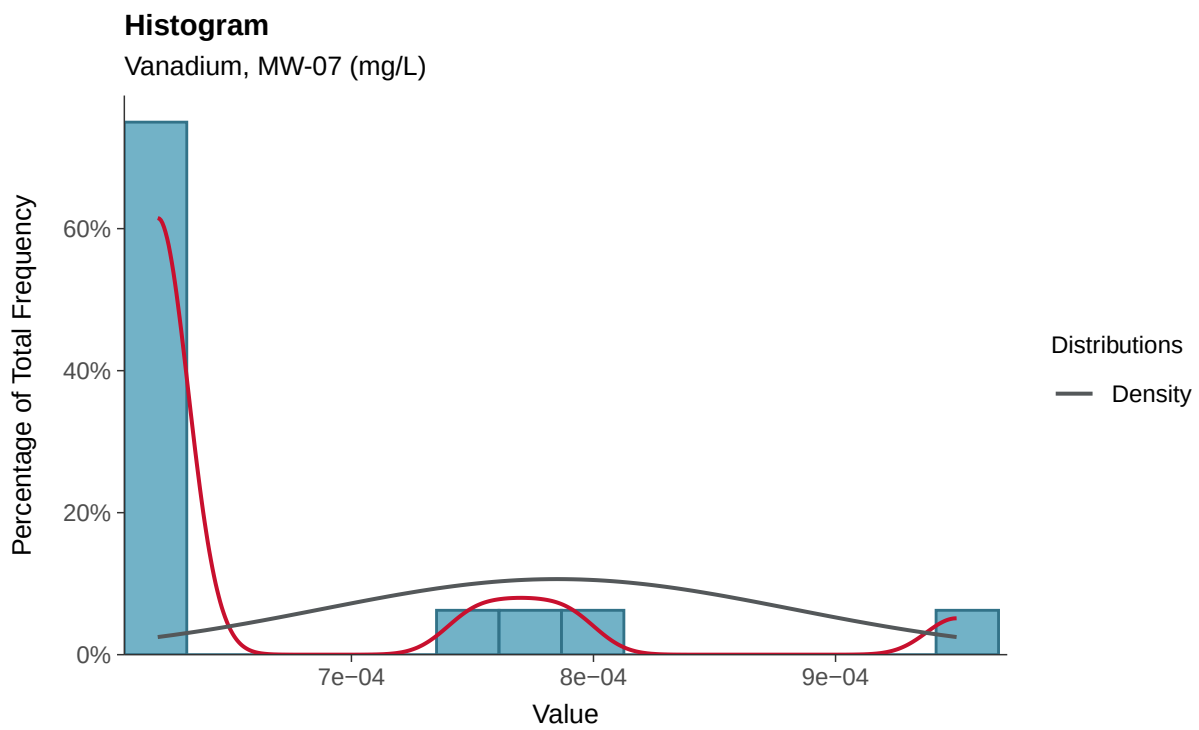


Part 115: Silver, MW-07

ID: 17_1_5_123

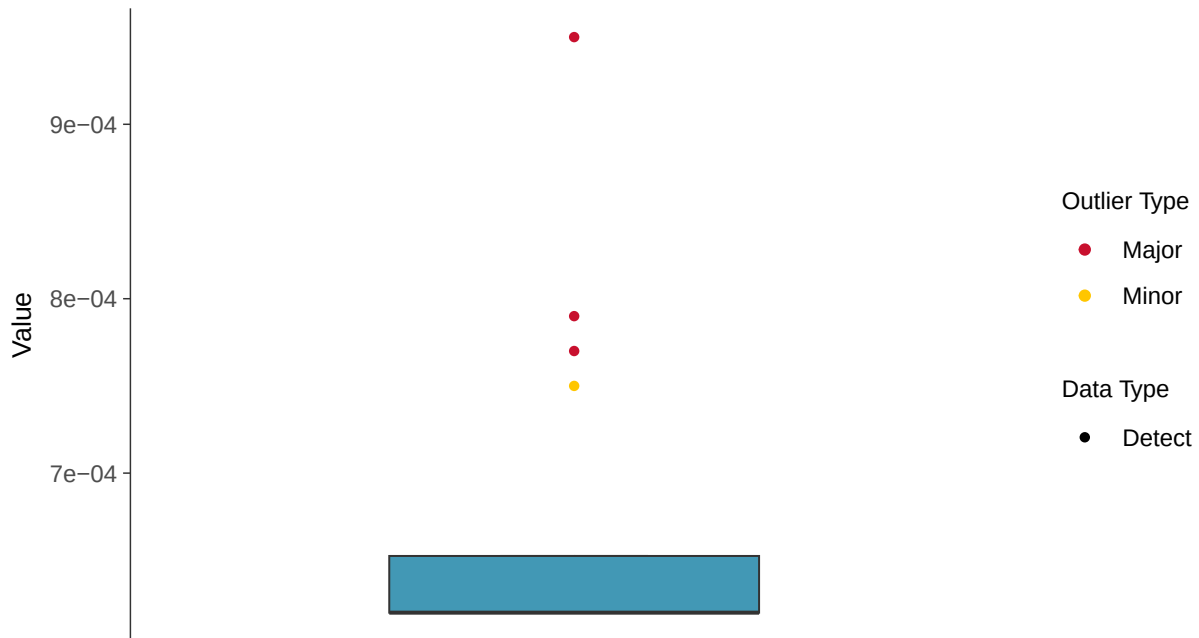






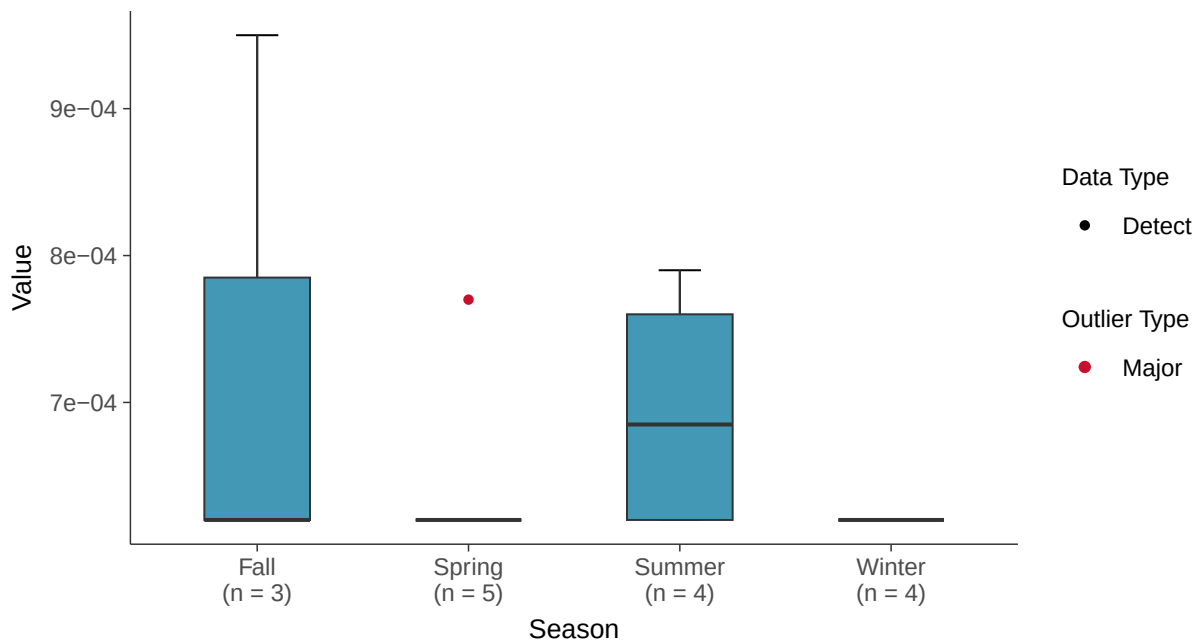
Boxplot

Vanadium, MW-07 (mg/L)

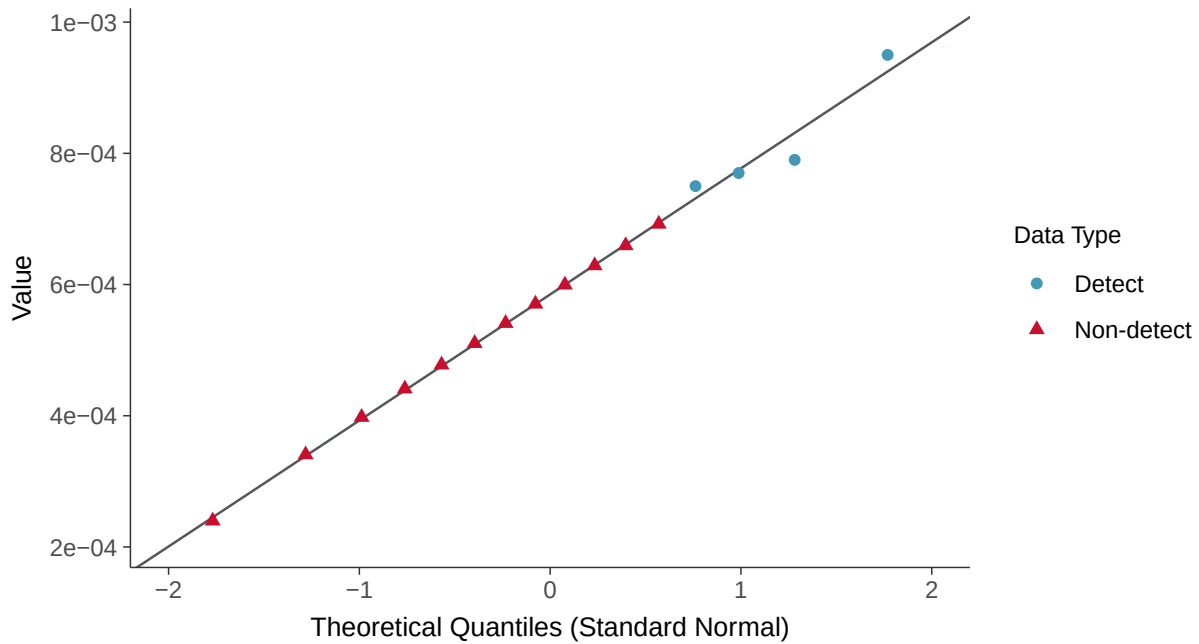


Boxplot by Season

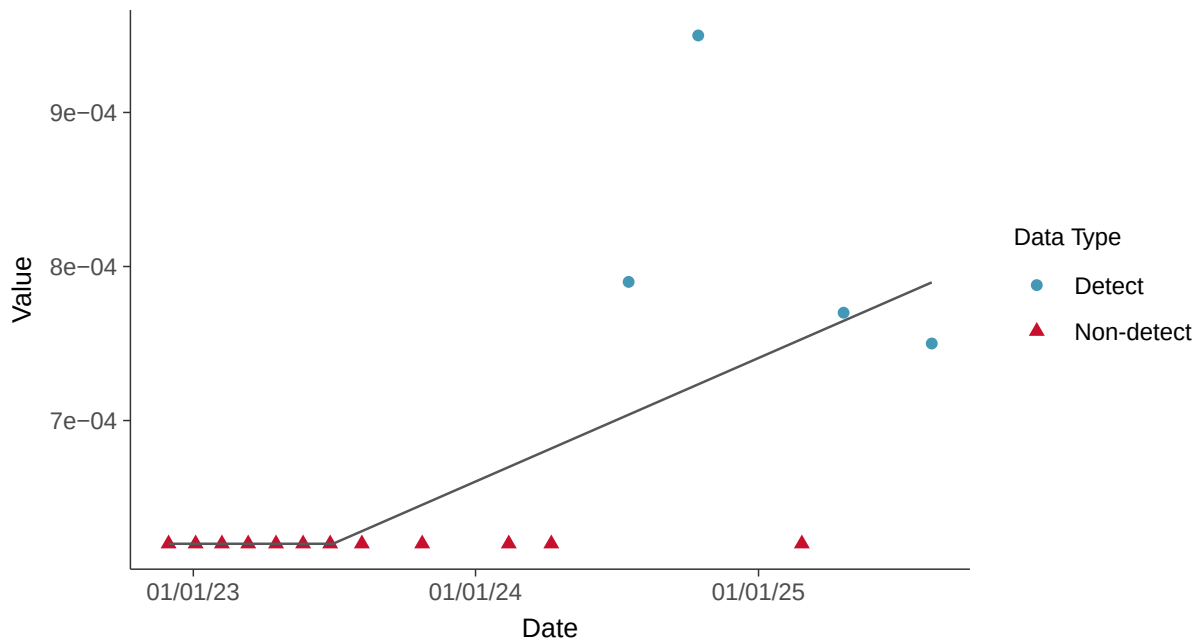
Vanadium, MW-07 (mg/L)



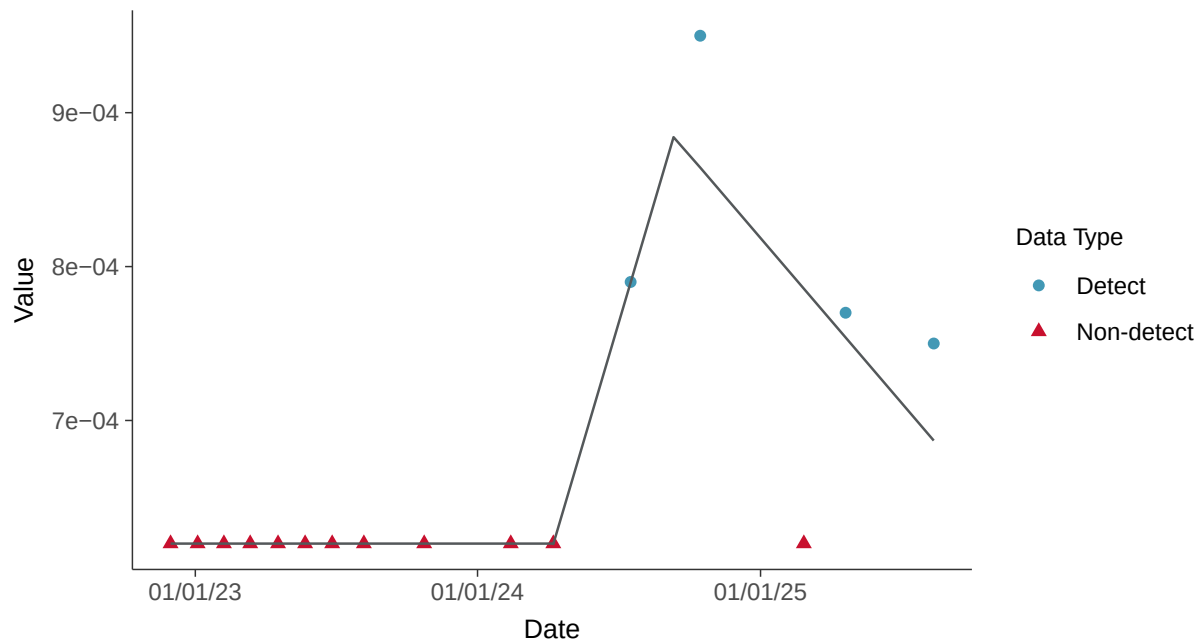
Vanadium, MW-07 (mg/L)



Vanadium, MW-07 (mg/L)

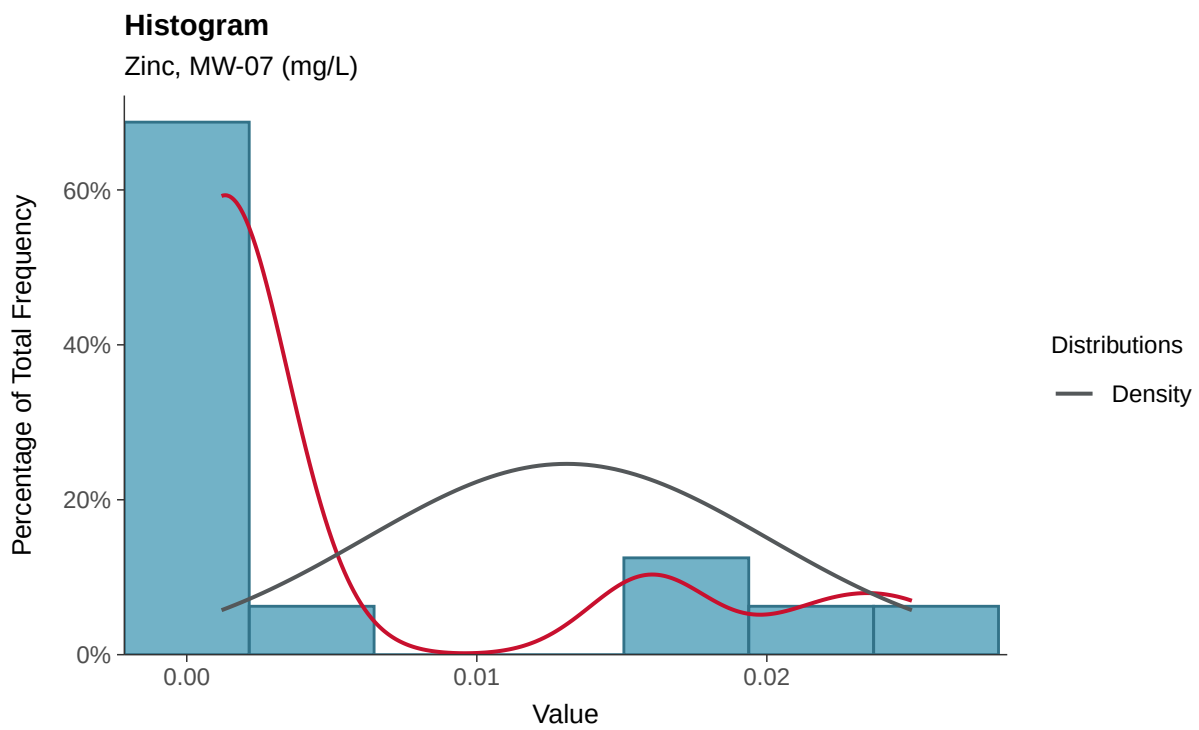
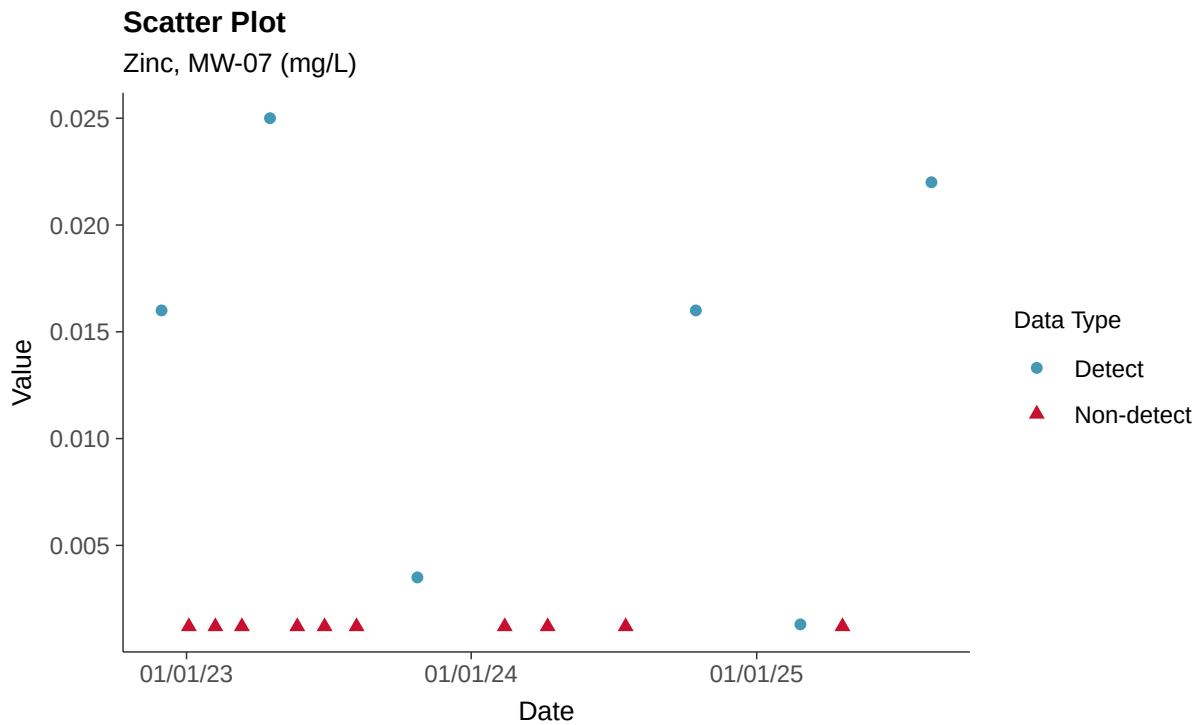


Vanadium, MW-07 (mg/L)



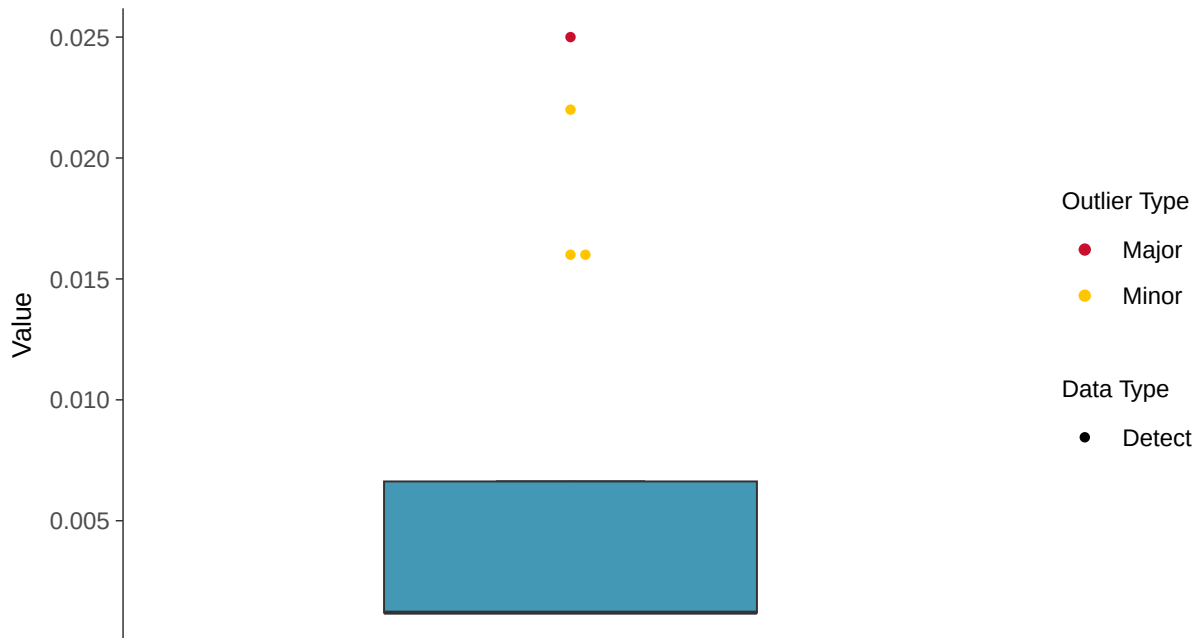
Part 115: Zinc, MW-07

ID: 17_1_5_129



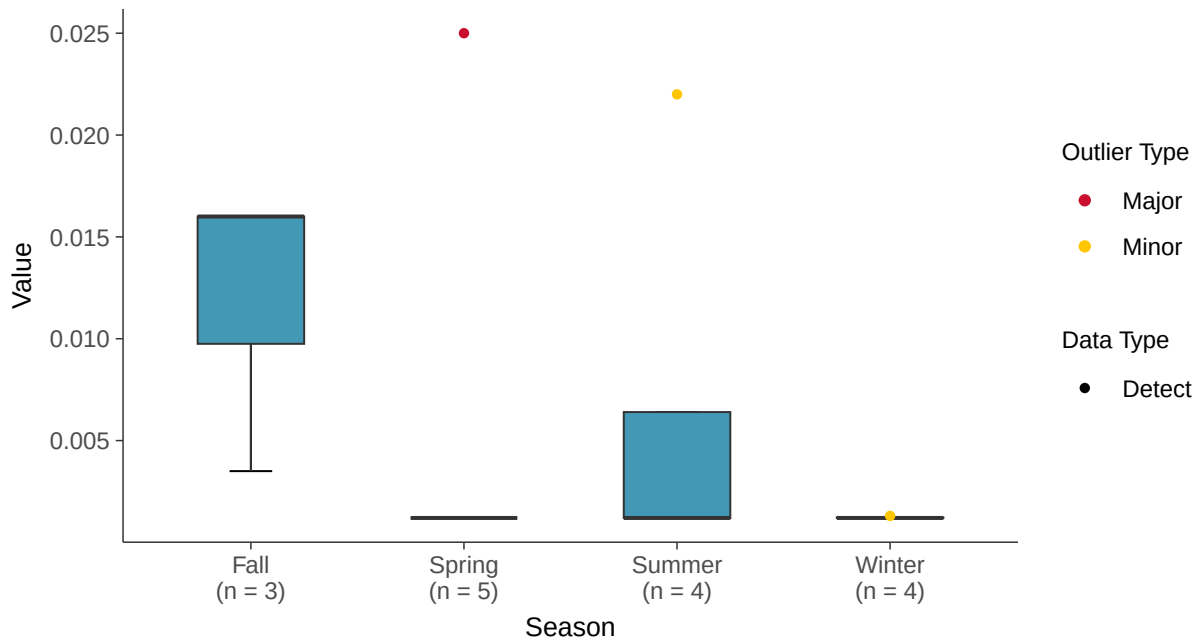
Boxplot

Zinc, MW-07 (mg/L)



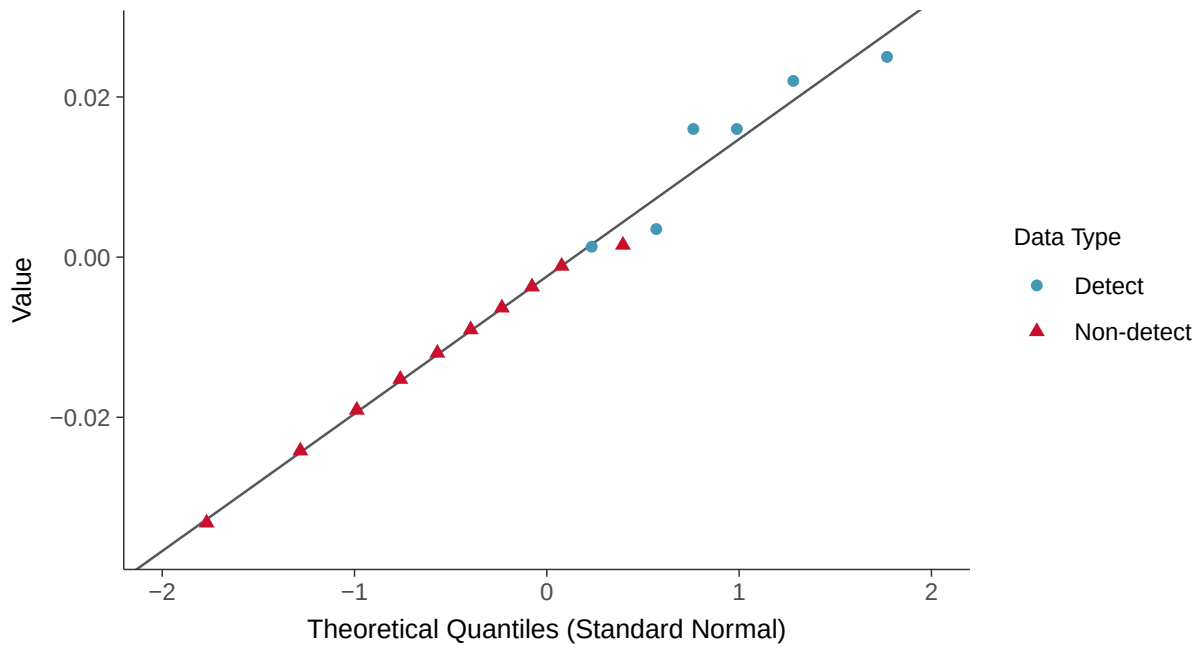
Boxplot by Season

Zinc, MW-07 (mg/L)



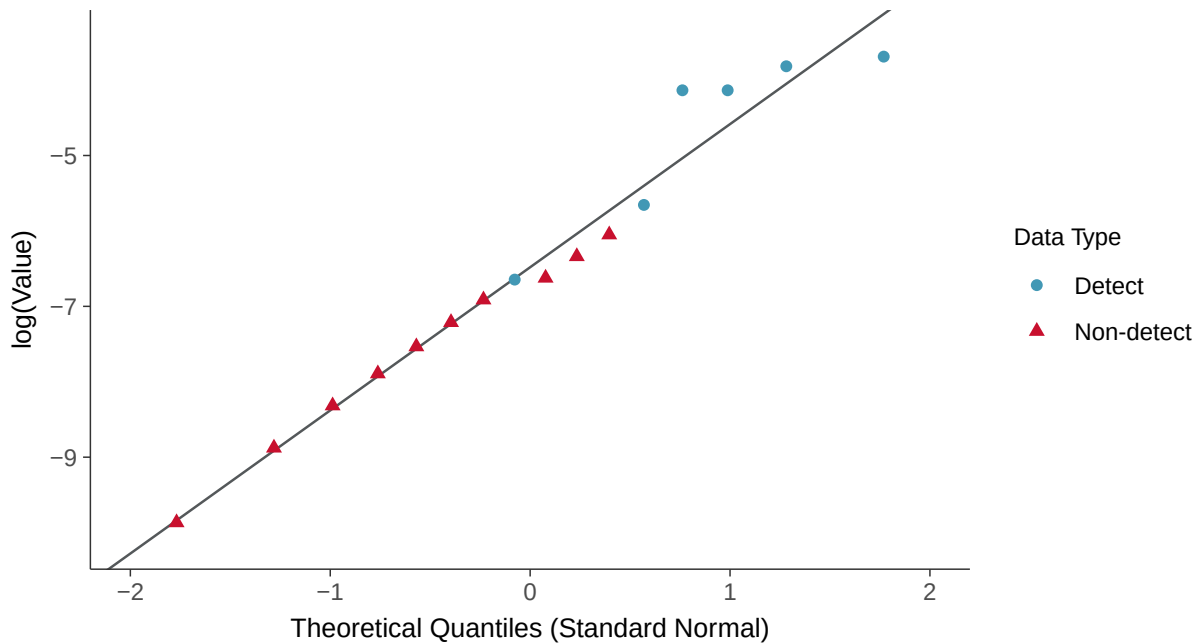
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-07 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

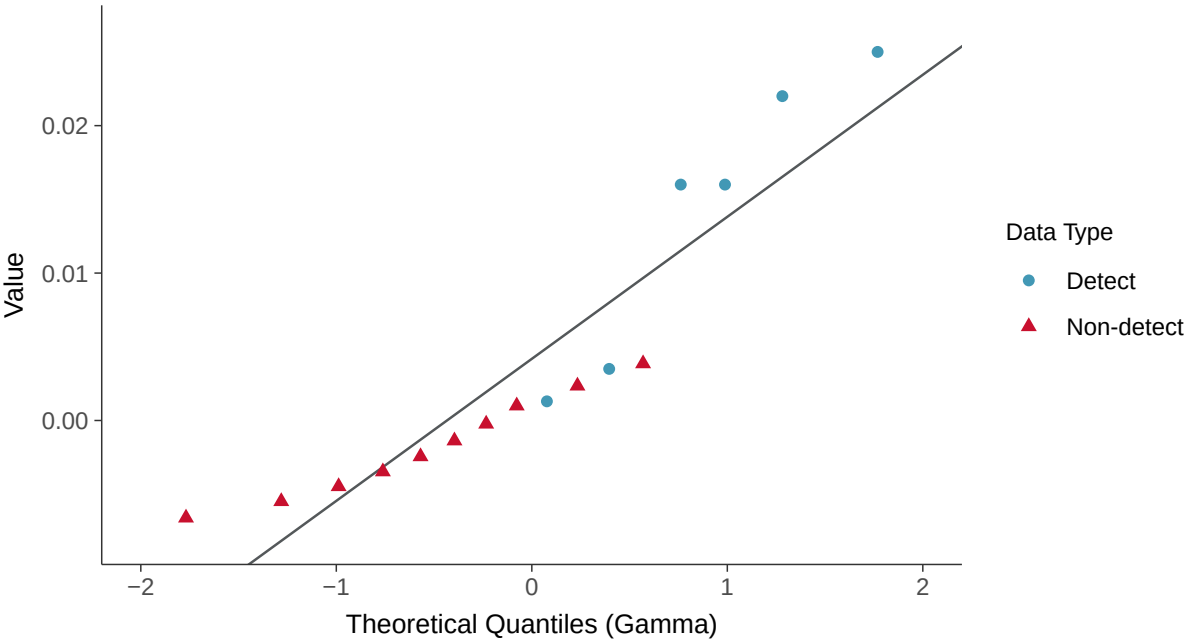
Zinc, MW-07 (mg/L)





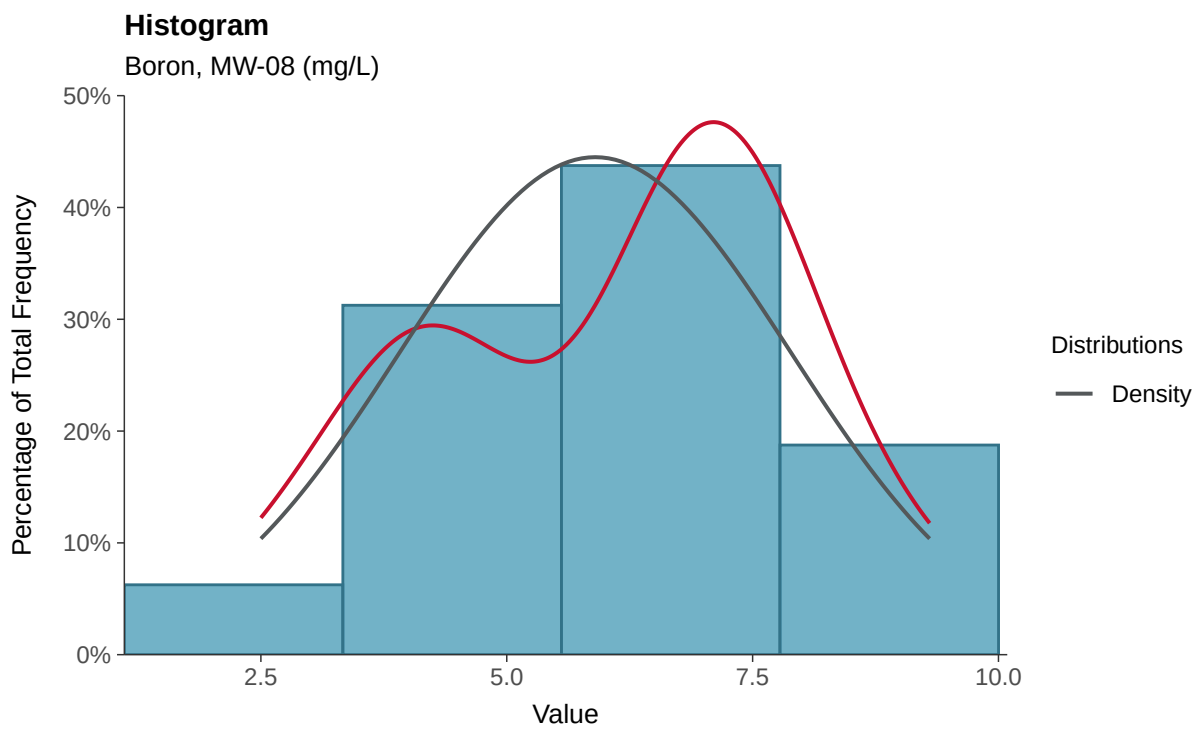
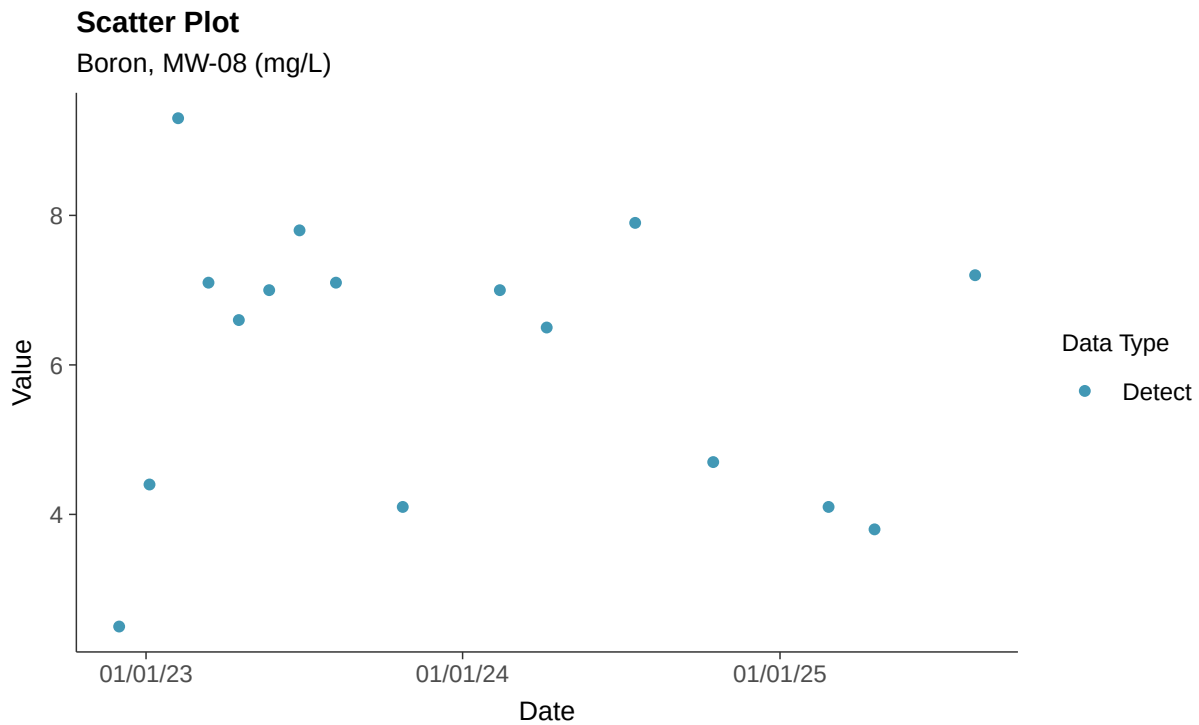
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-07 (mg/L)



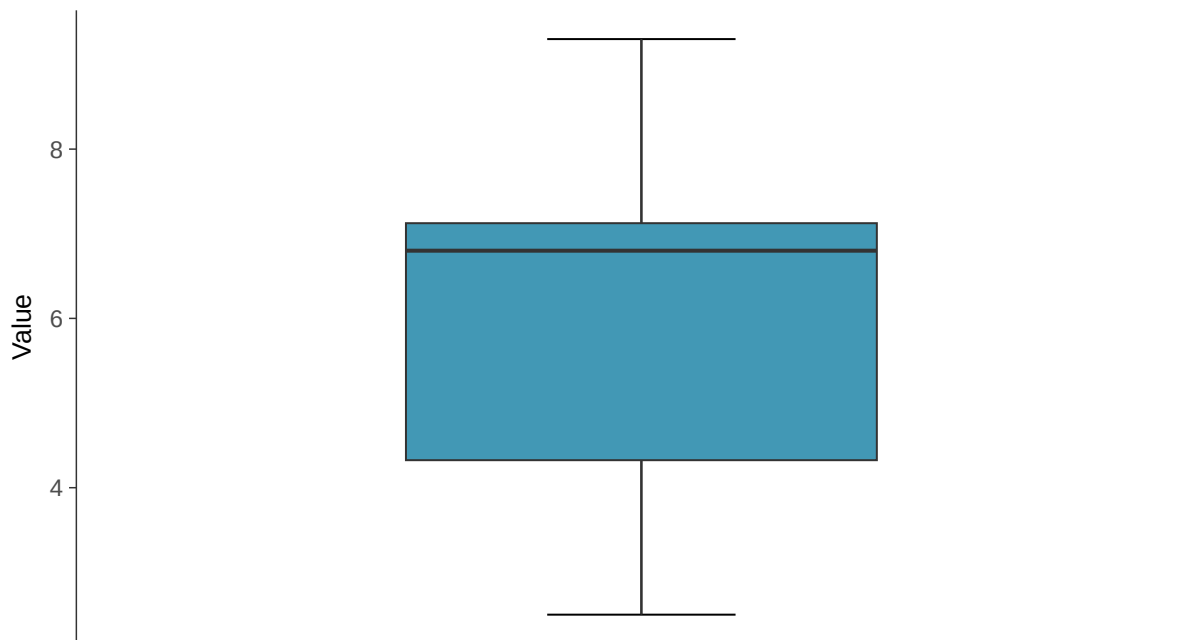
Appendix III: Boron, MW-08

ID: 18_1_3_105



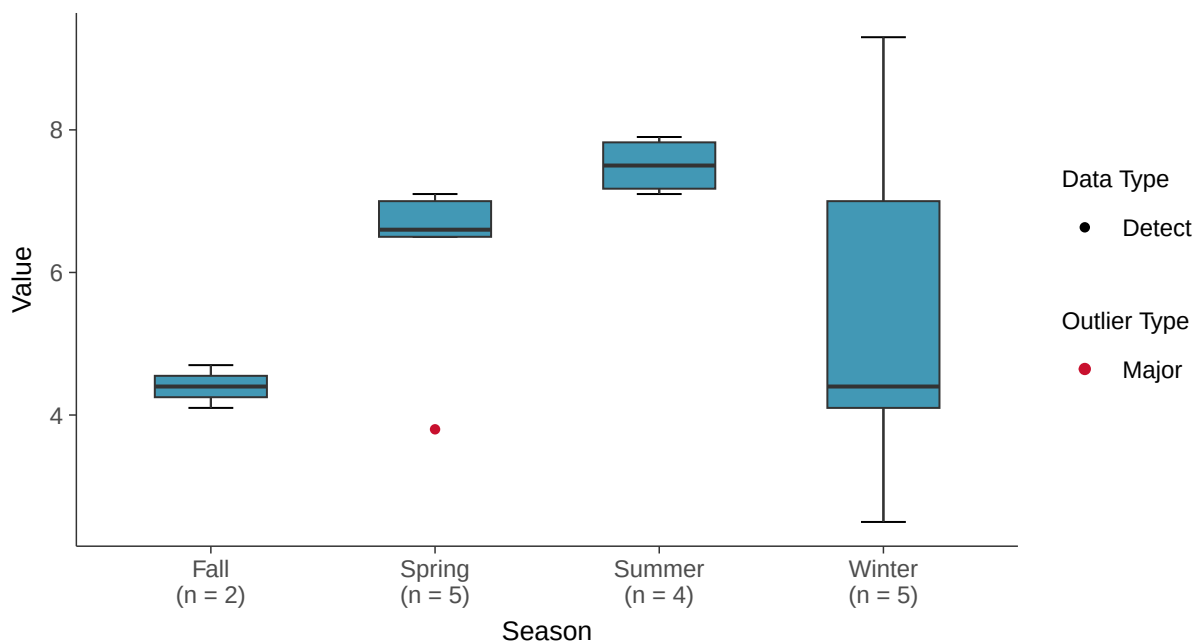
Boxplot

Boron, MW-08 (mg/L)



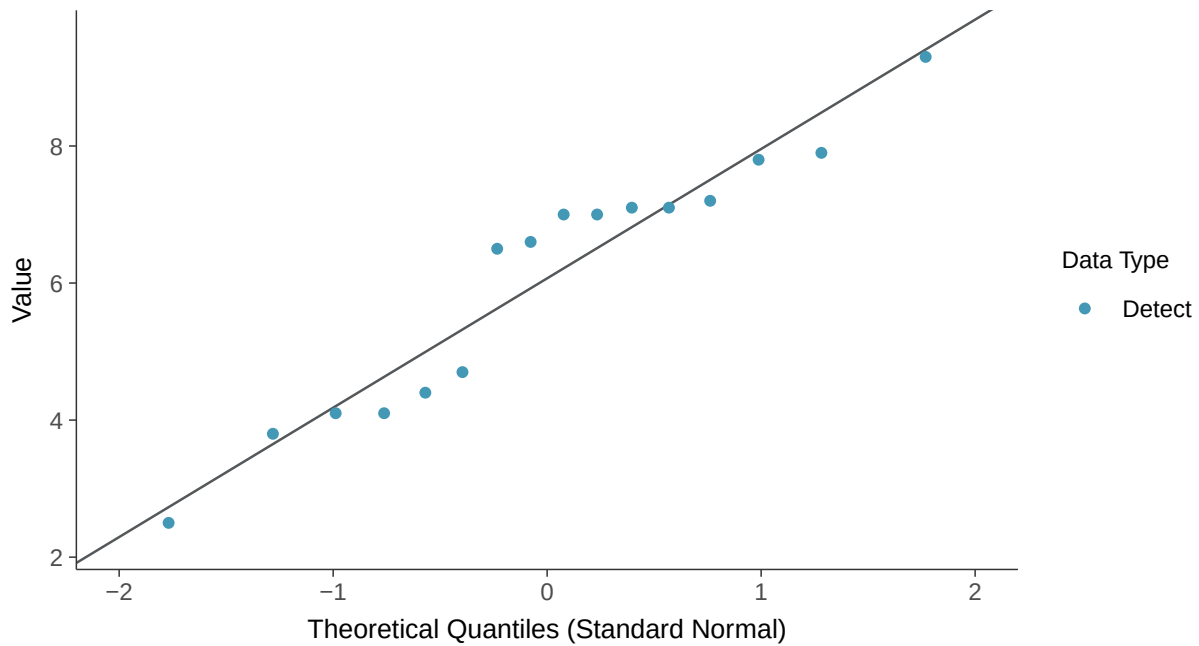
Boxplot by Season

Boron, MW-08 (mg/L)



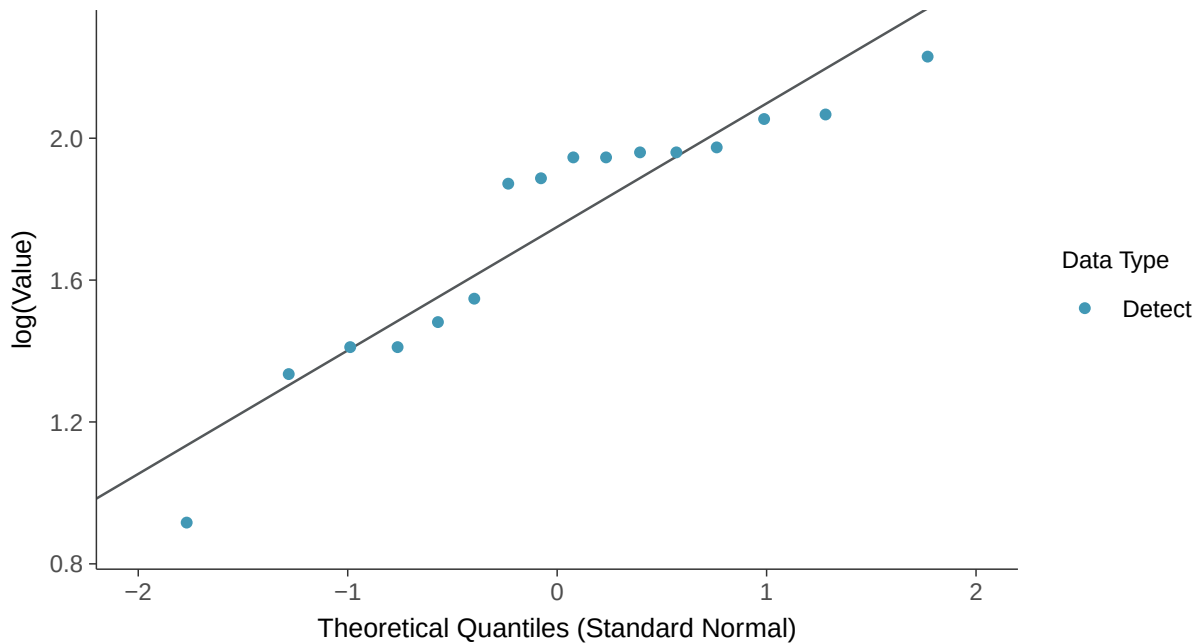
Normal Q-Q plot

Boron, MW-08 (mg/L)



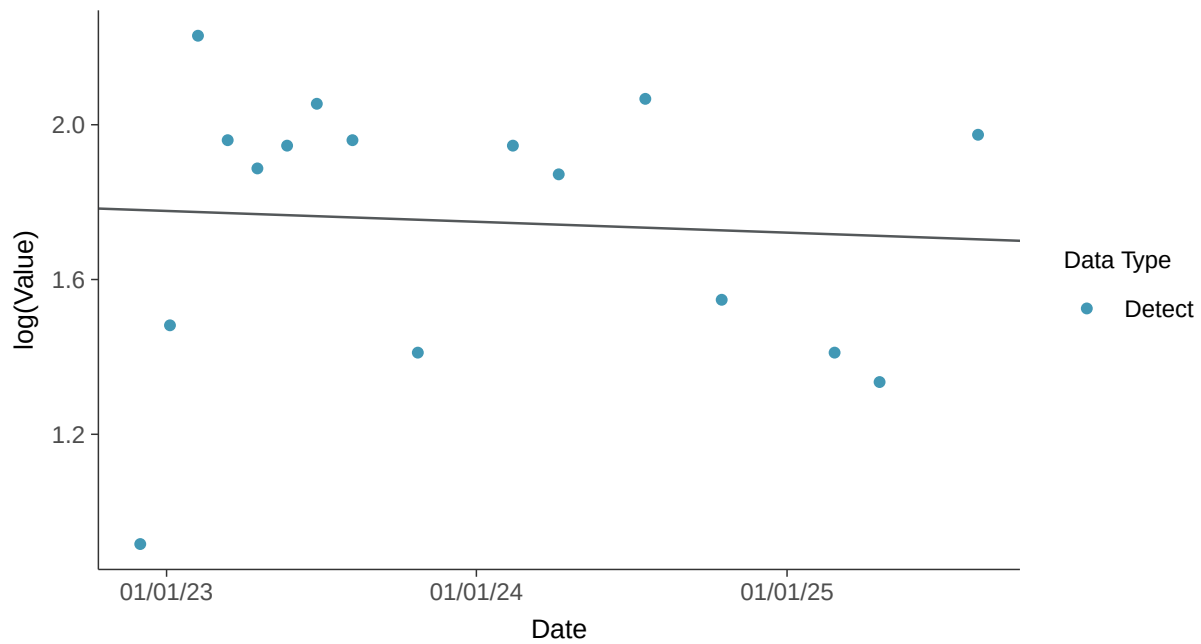
Lognormal Q-Q plot

Boron, MW-08 (mg/L)



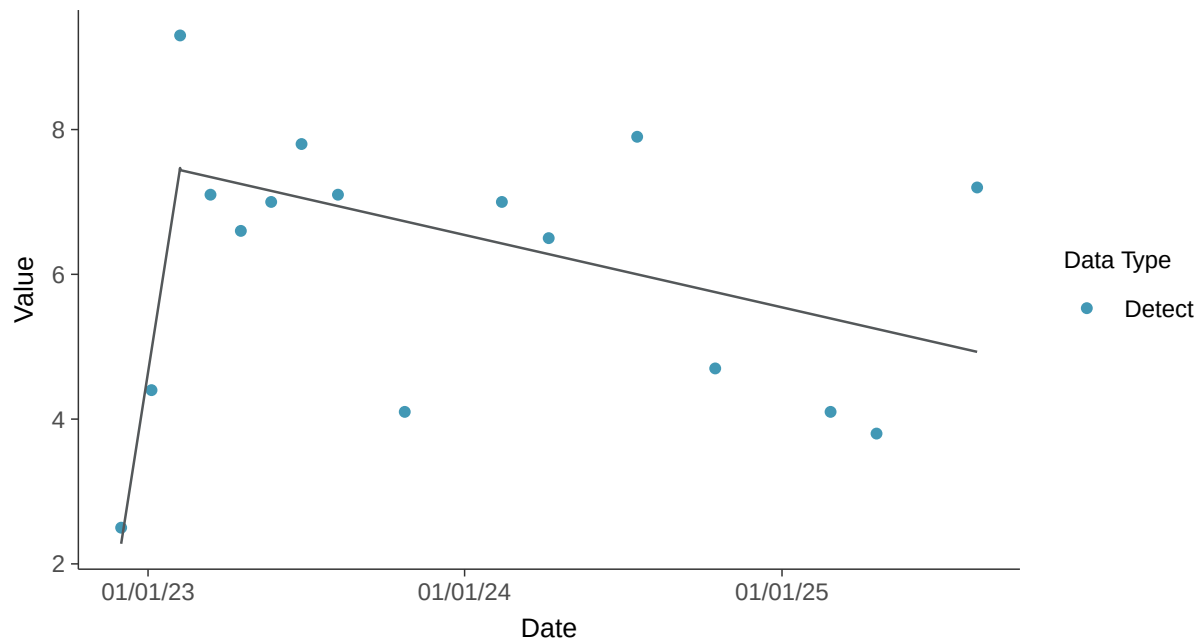
Trend Regression: Lognormal MLE

Boron, MW-08 (mg/L)



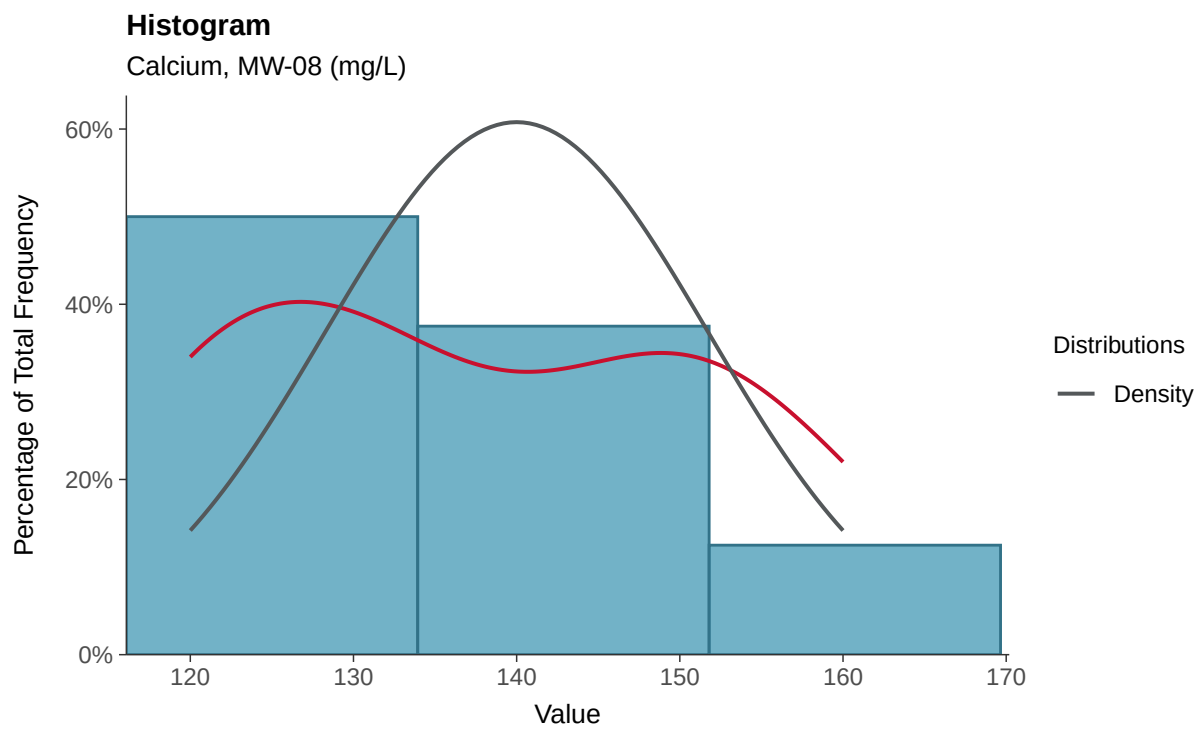
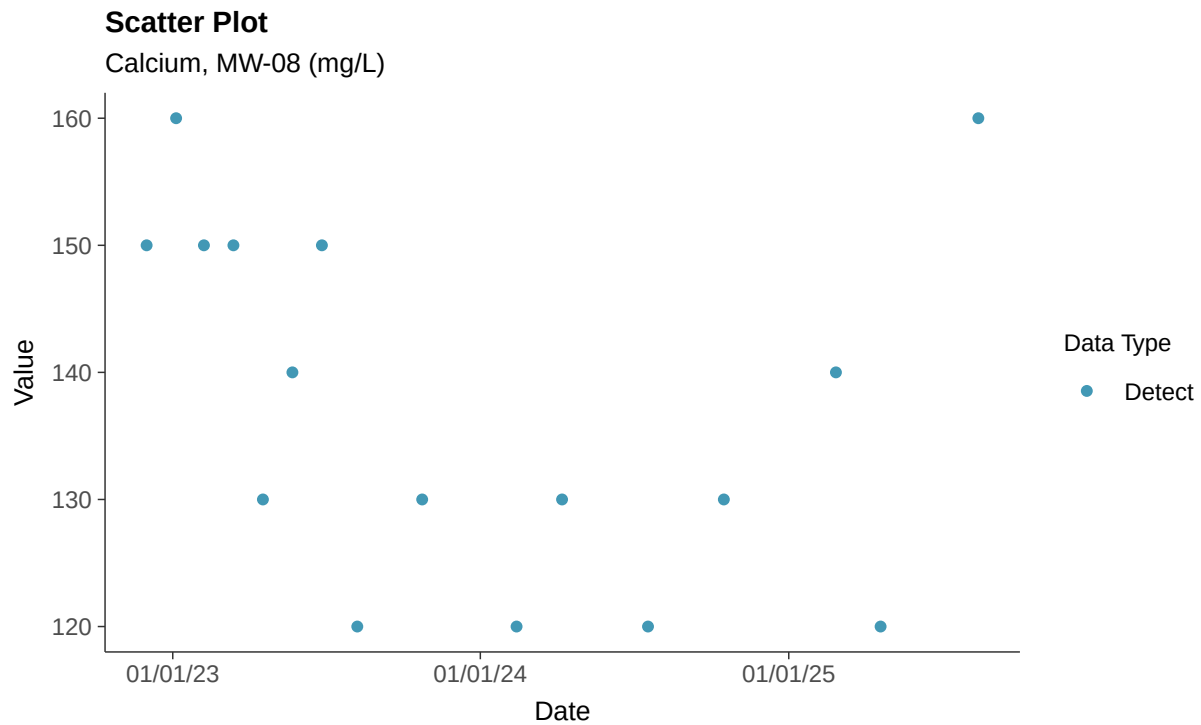
Trend Regression: Piecewise Linear-Linear

Boron, MW-08 (mg/L)



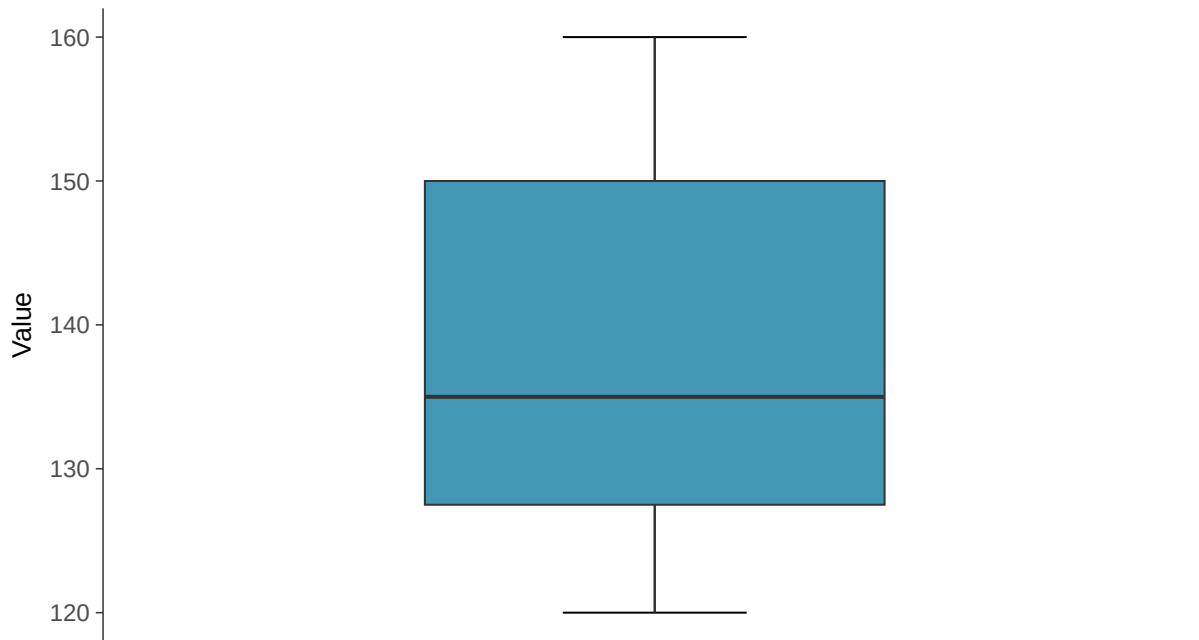
Appendix III: Calcium, MW-08

ID: 18_1_3_107



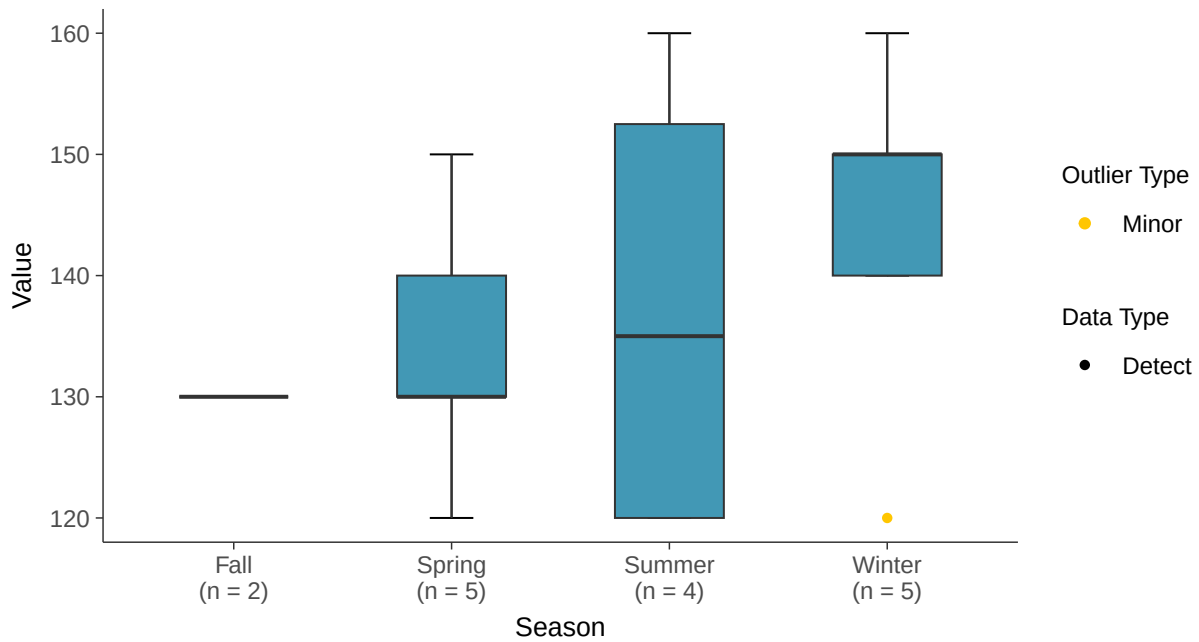
Boxplot

Calcium, MW-08 (mg/L)



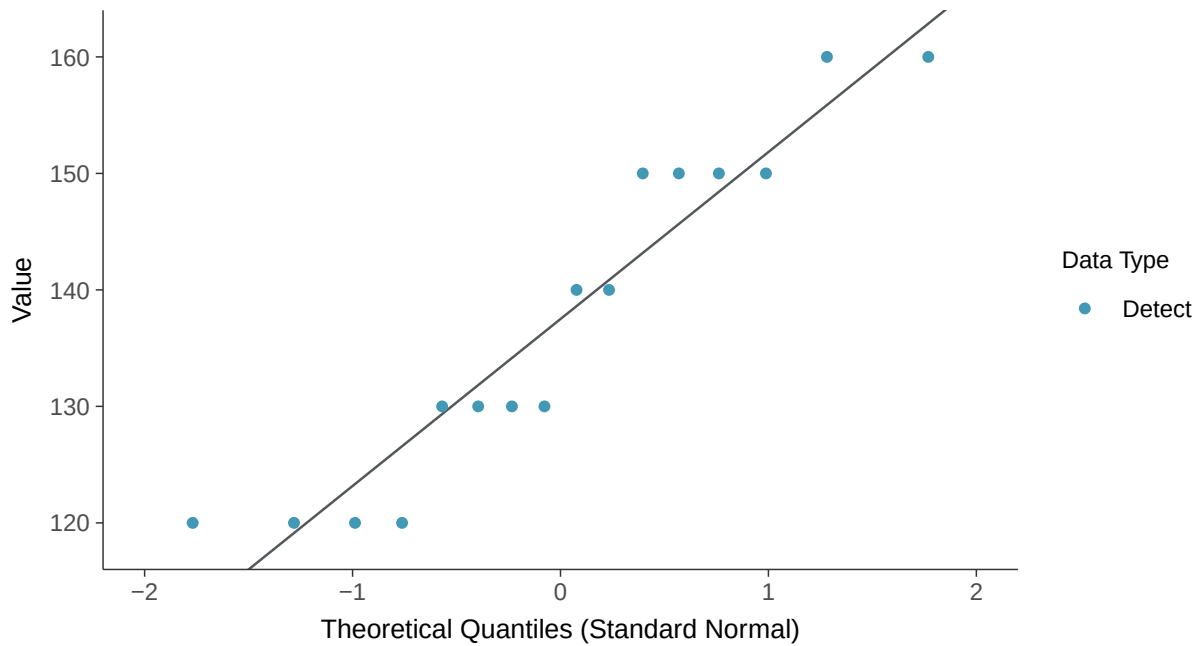
Boxplot by Season

Calcium, MW-08 (mg/L)



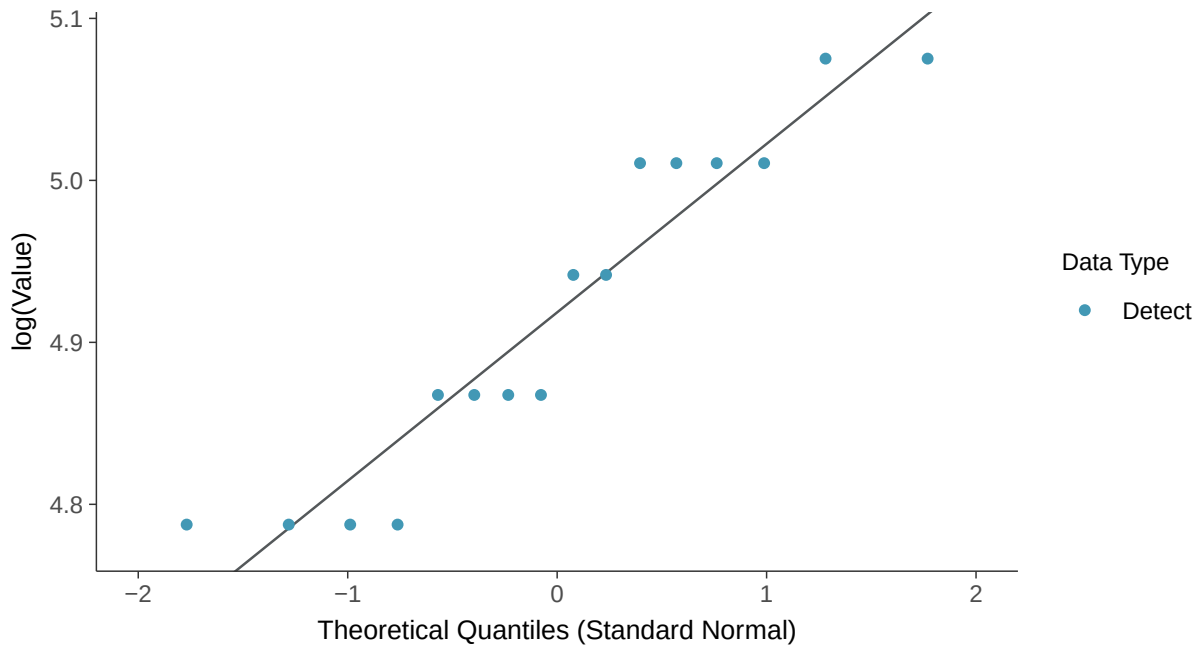
Normal Q-Q plot

Calcium, MW-08 (mg/L)



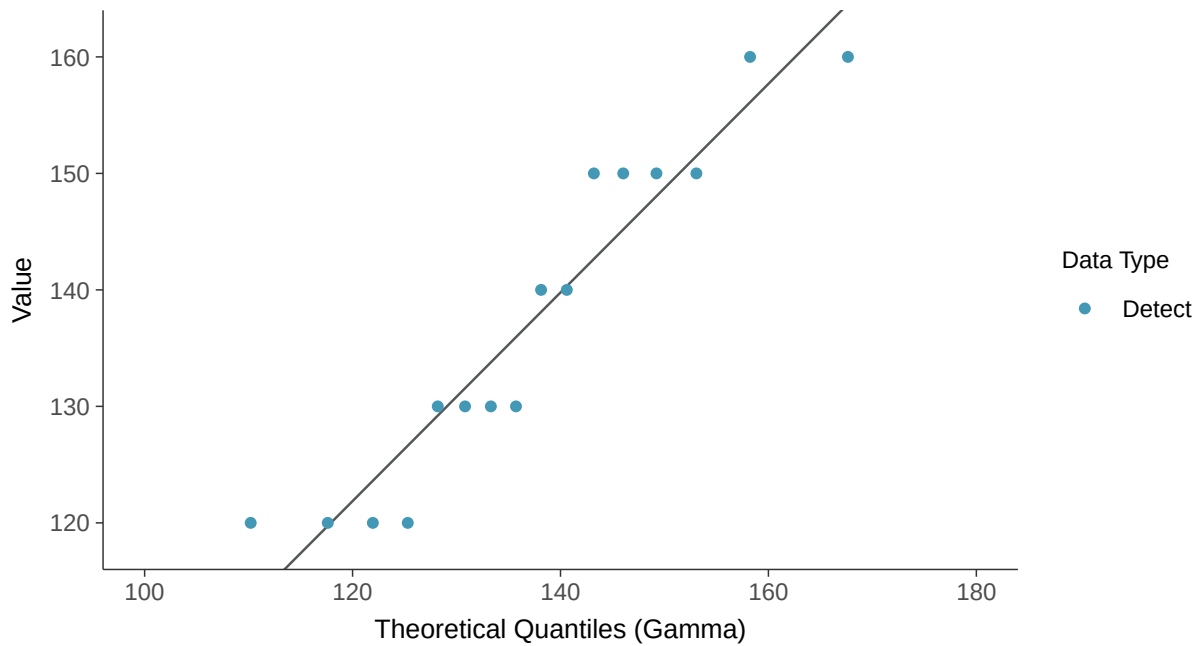
Lognormal Q-Q plot

Calcium, MW-08 (mg/L)



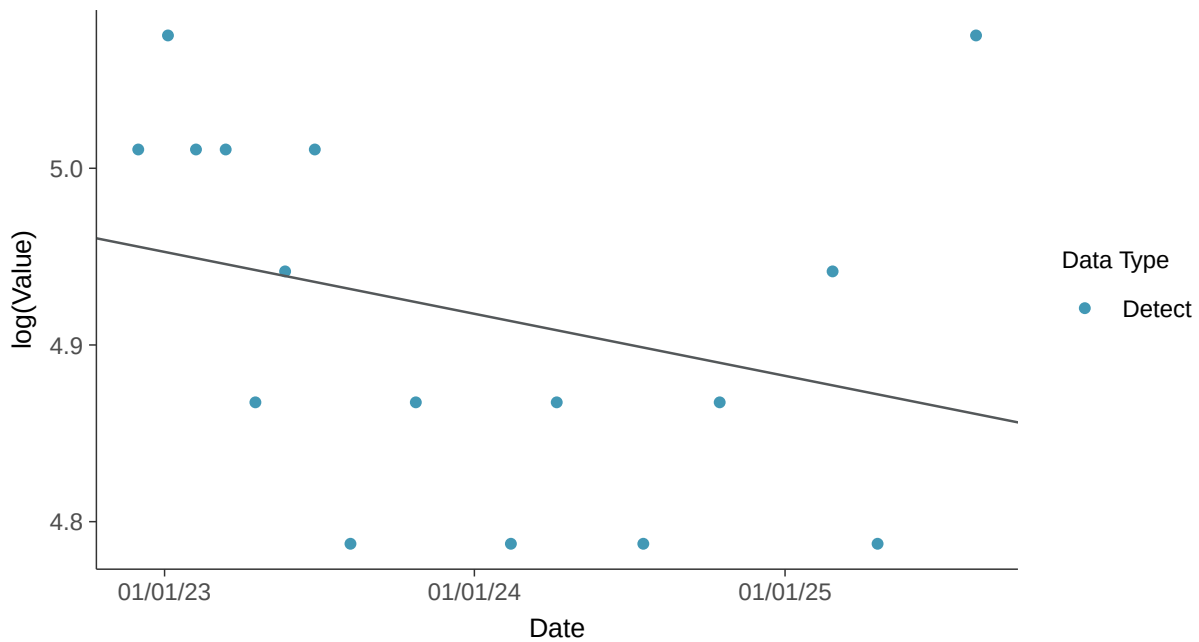
Gamma Q-Q plot

Calcium, MW-08 (mg/L)



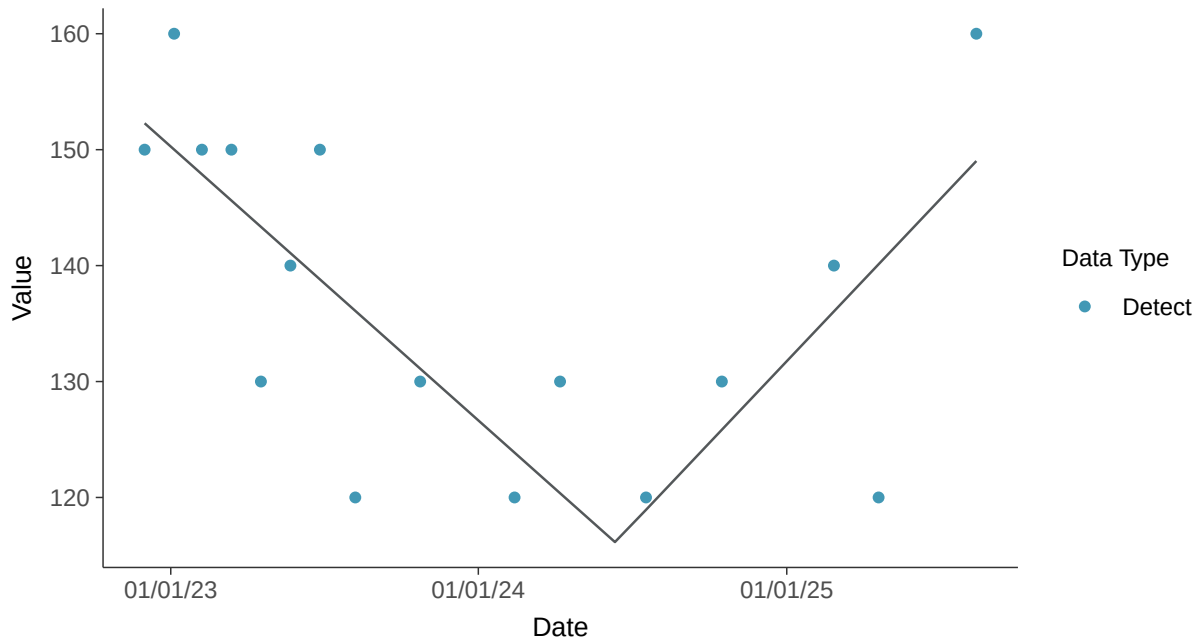
Trend Regression: Lognormal MLE

Calcium, MW-08 (mg/L)



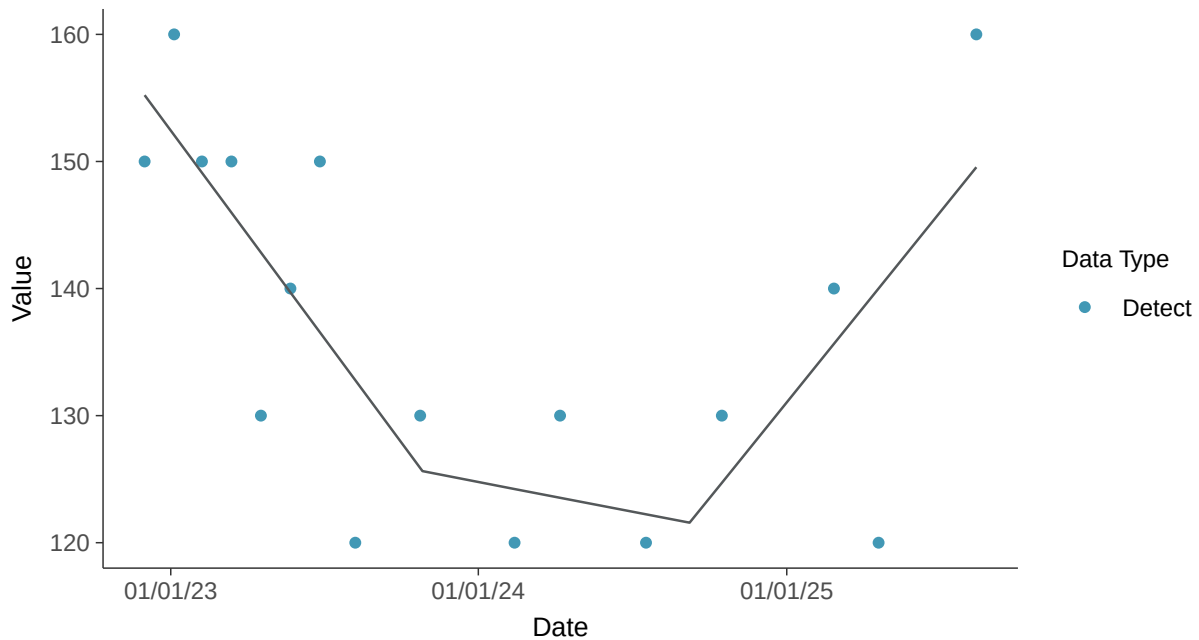
Trend Regression: Piecewise Linear-Linear

Calcium, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-08 (mg/L)

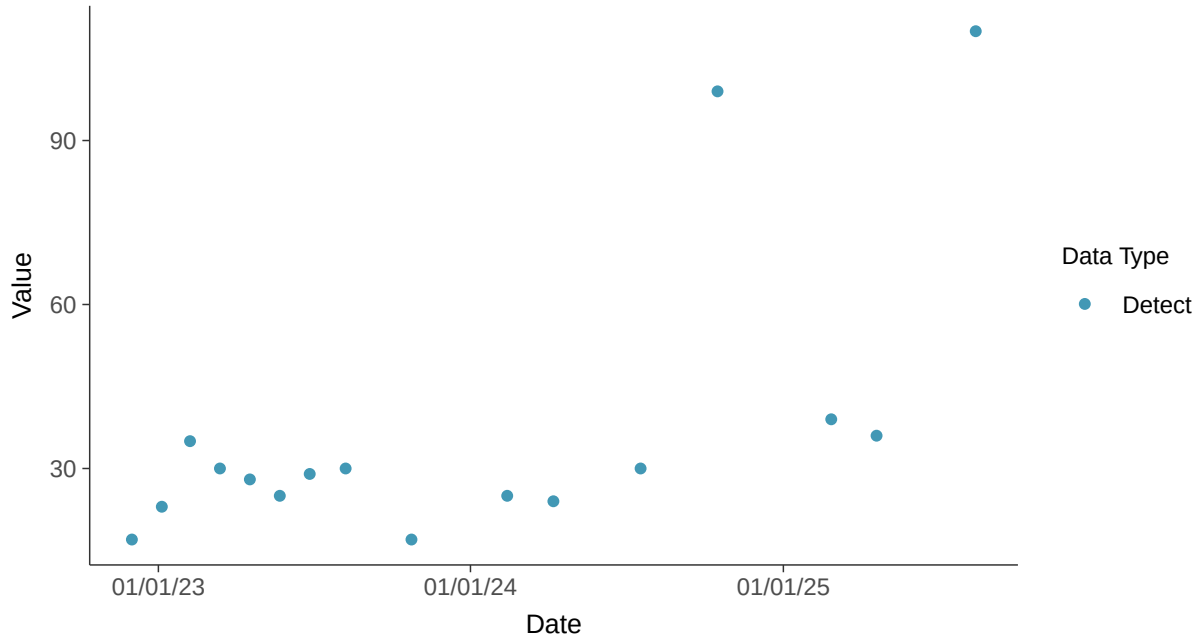


Appendix III: Chloride (as Cl), MW-08

ID: 18_1_3_108

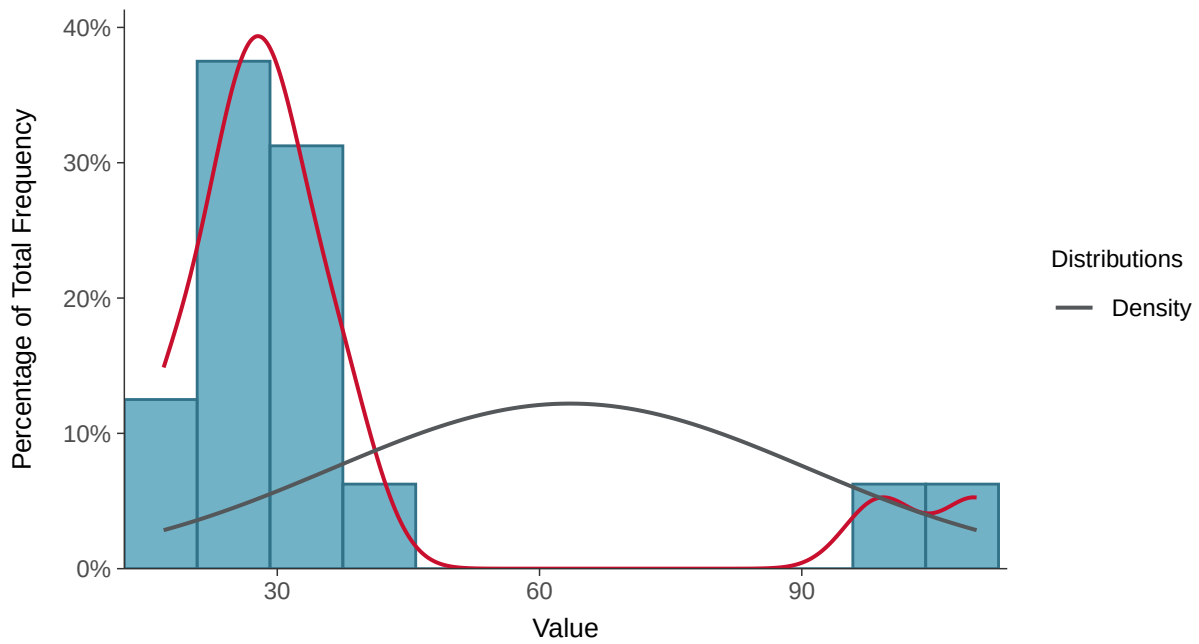
Scatter Plot

Chloride (as Cl), MW-08 (mg/L)



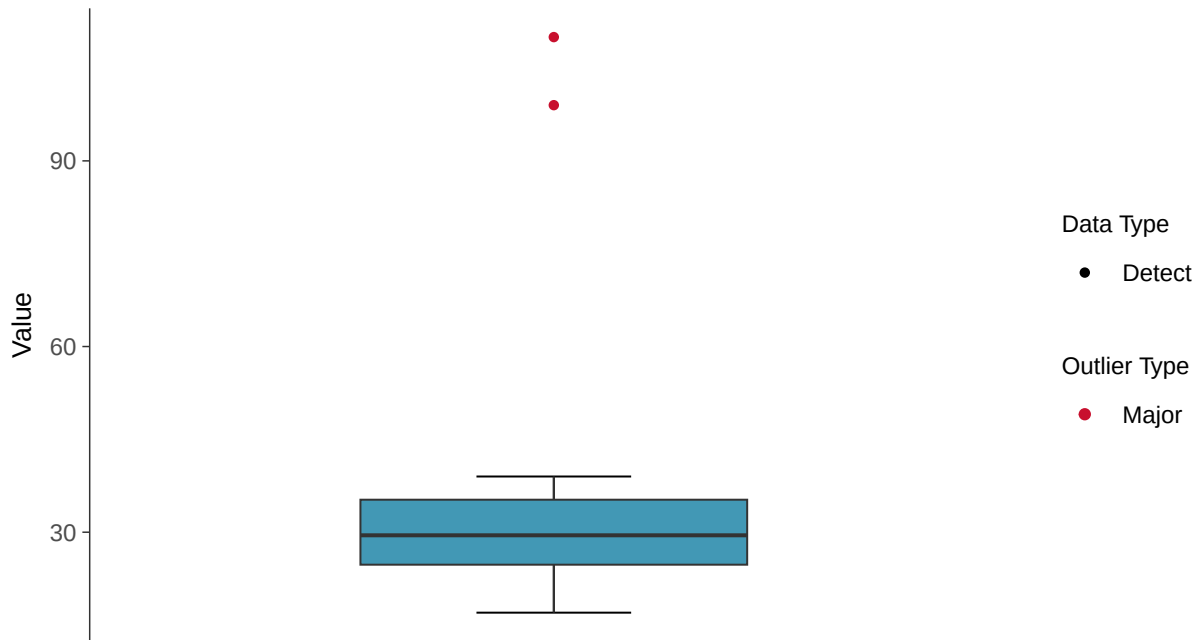
Histogram

Chloride (as Cl), MW-08 (mg/L)



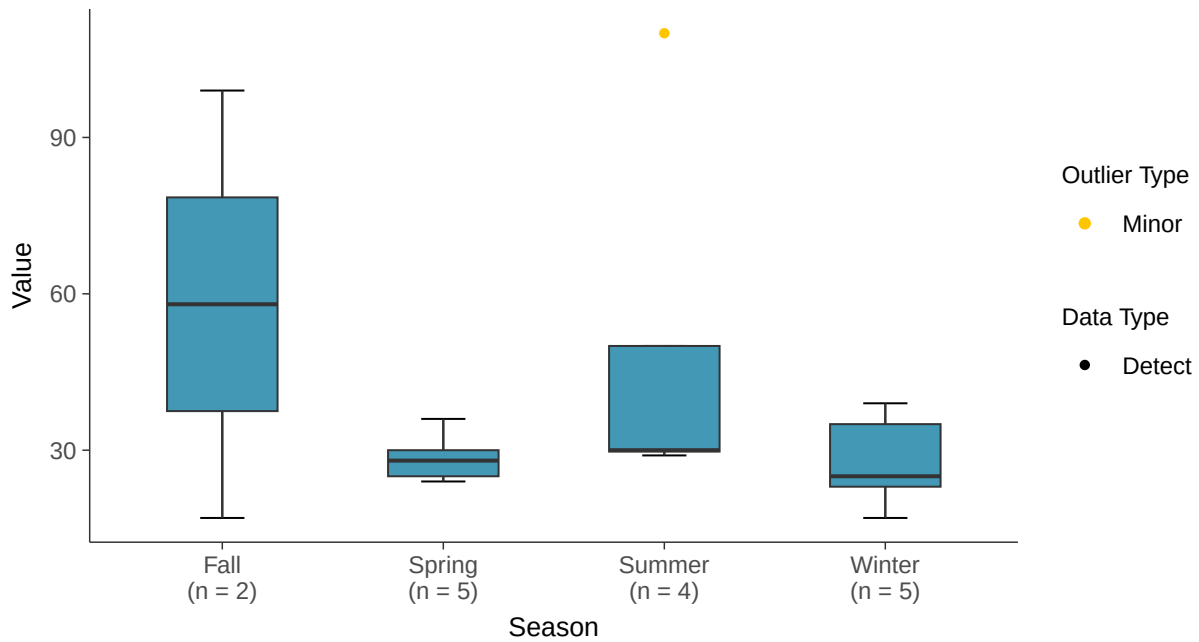
Boxplot

Chloride (as Cl), MW-08 (mg/L)

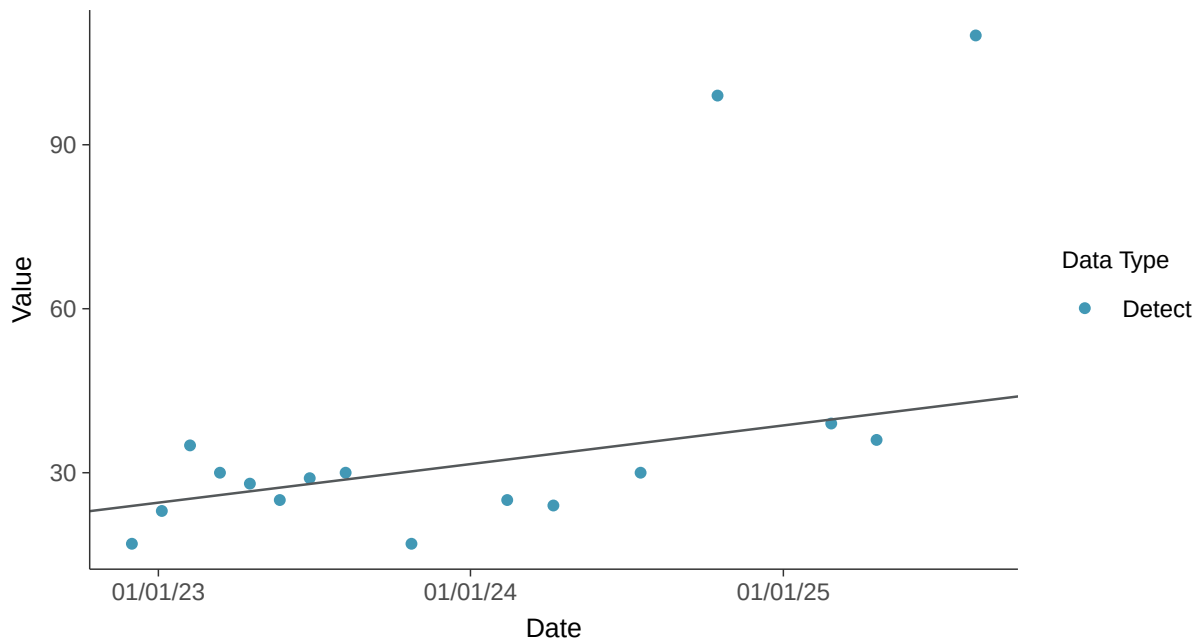
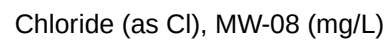


Boxplot by Season

Chloride (as Cl), MW-08 (mg/L)

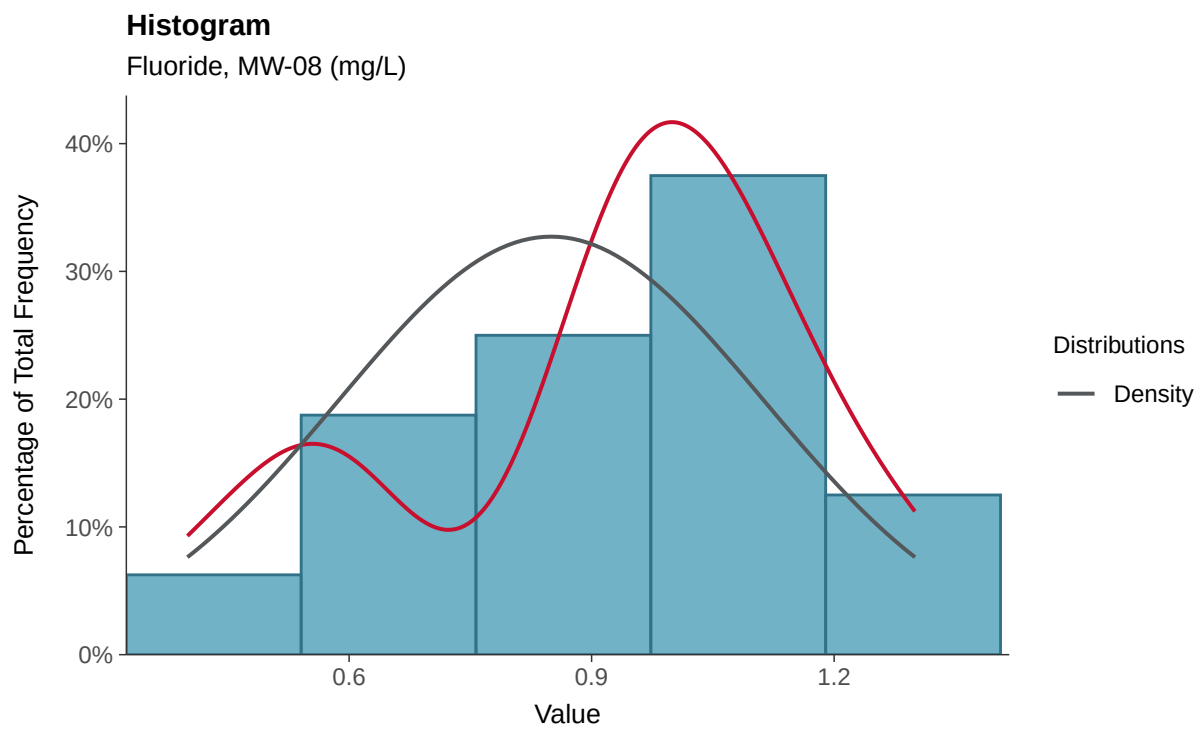
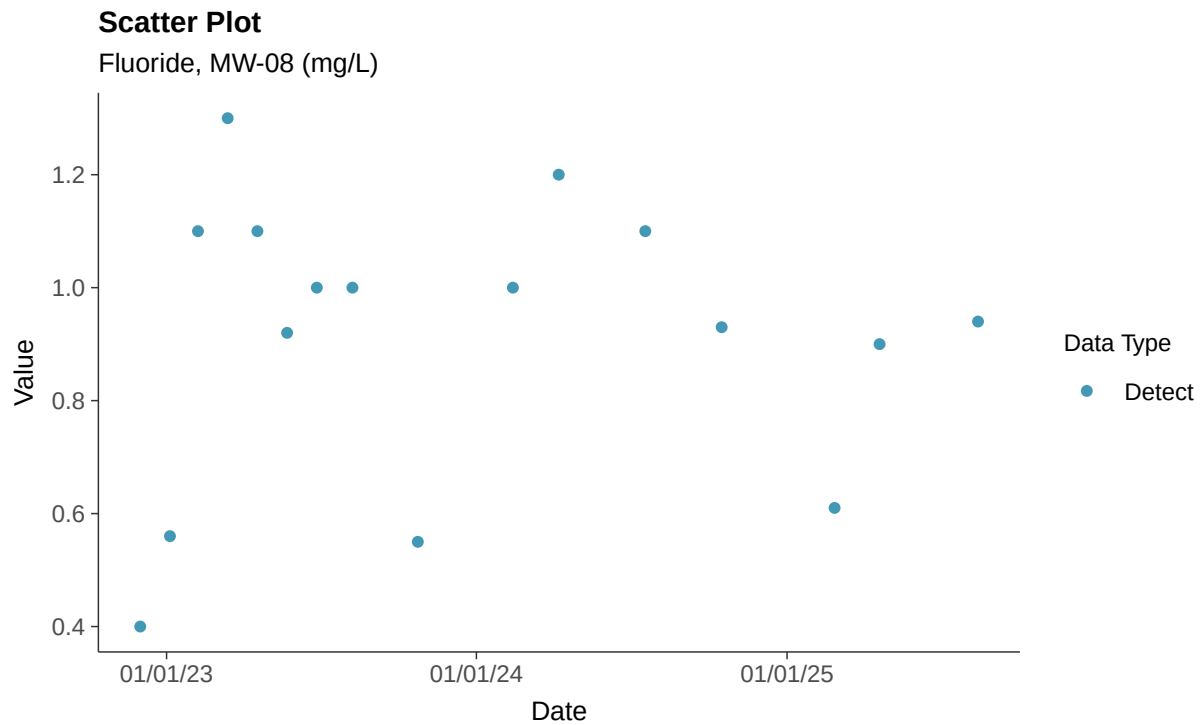


Chloride (as Cl), MW-08 (mg/L)



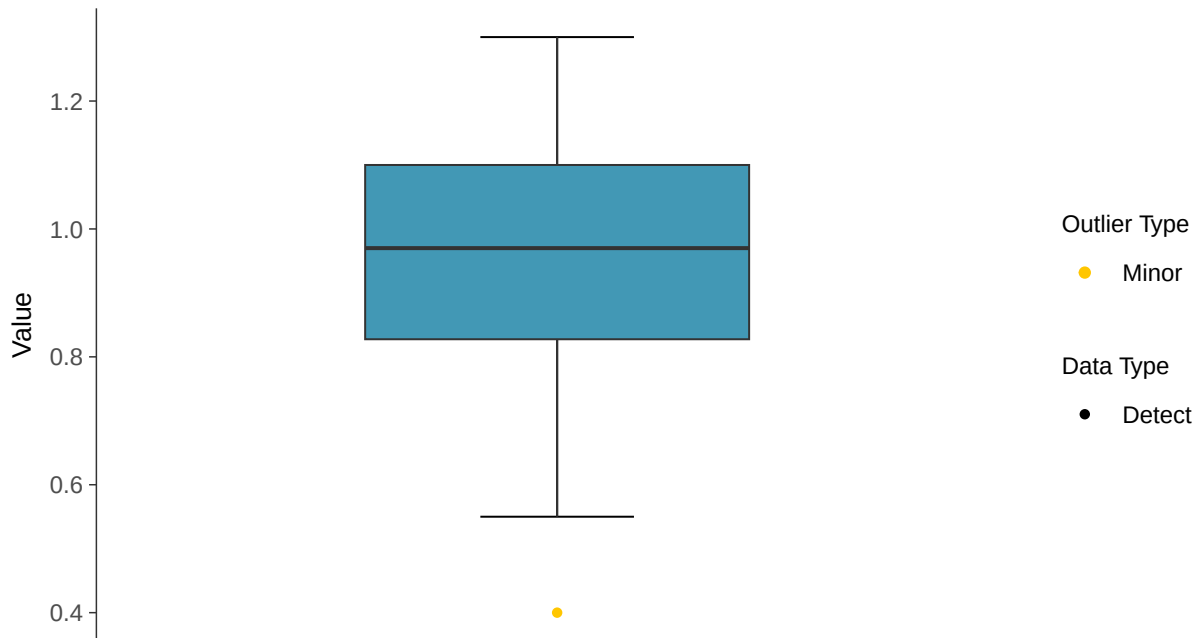
Appendix III: Fluoride, MW-08

ID: 18_1_3_112



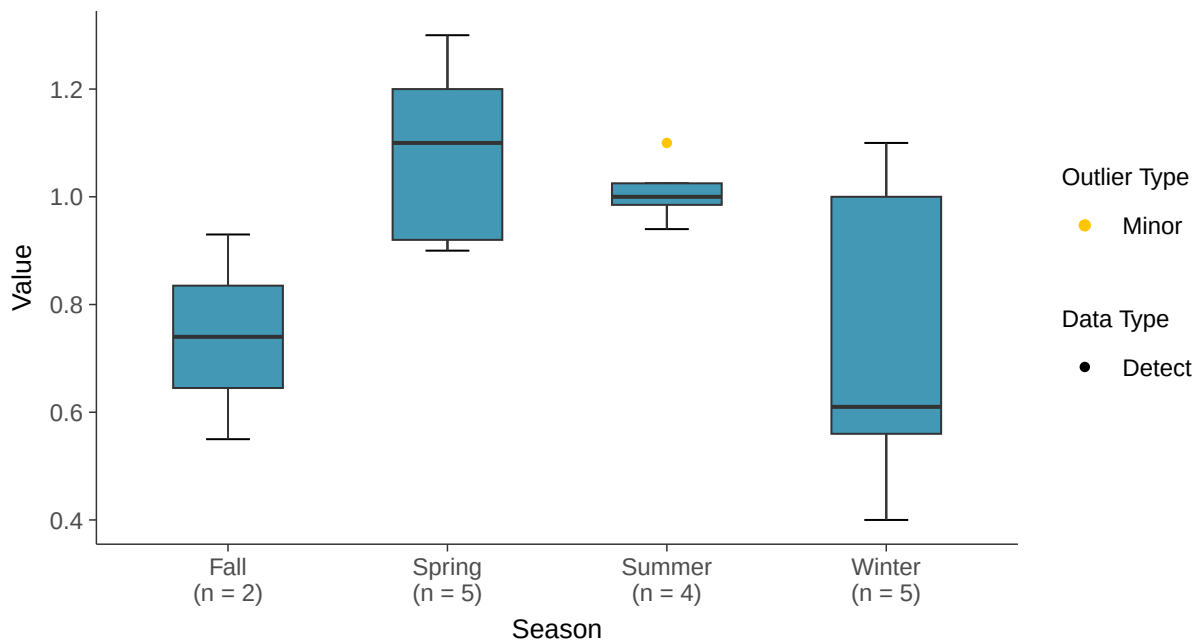
Boxplot

Fluoride, MW-08 (mg/L)



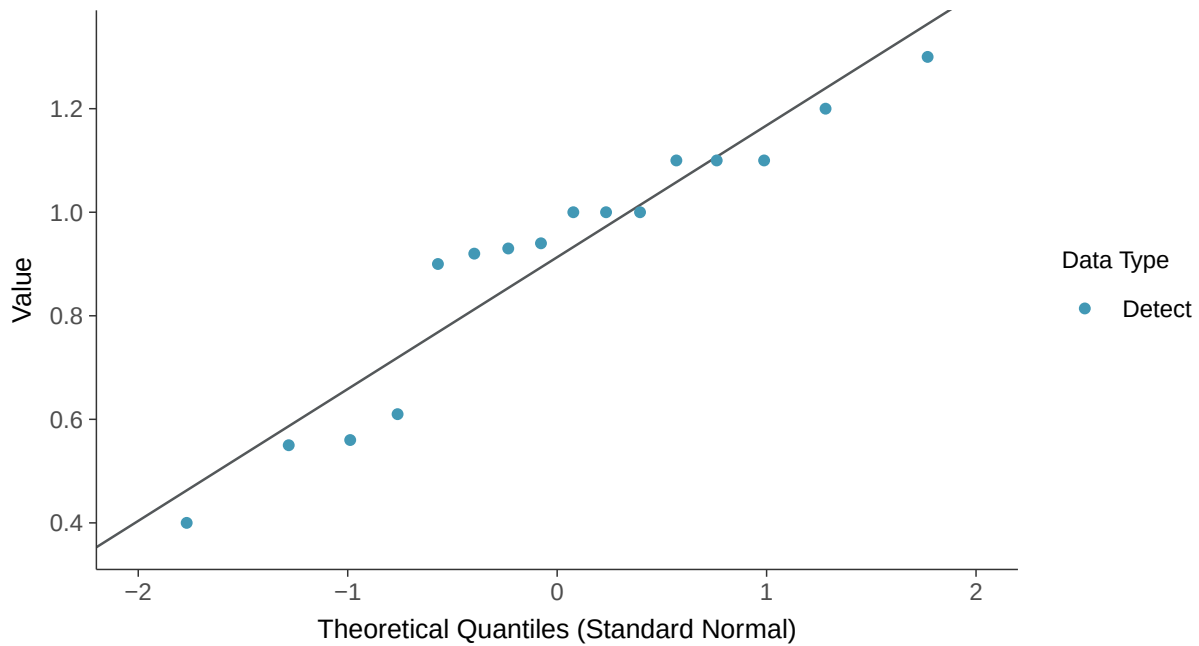
Boxplot by Season

Fluoride, MW-08 (mg/L)



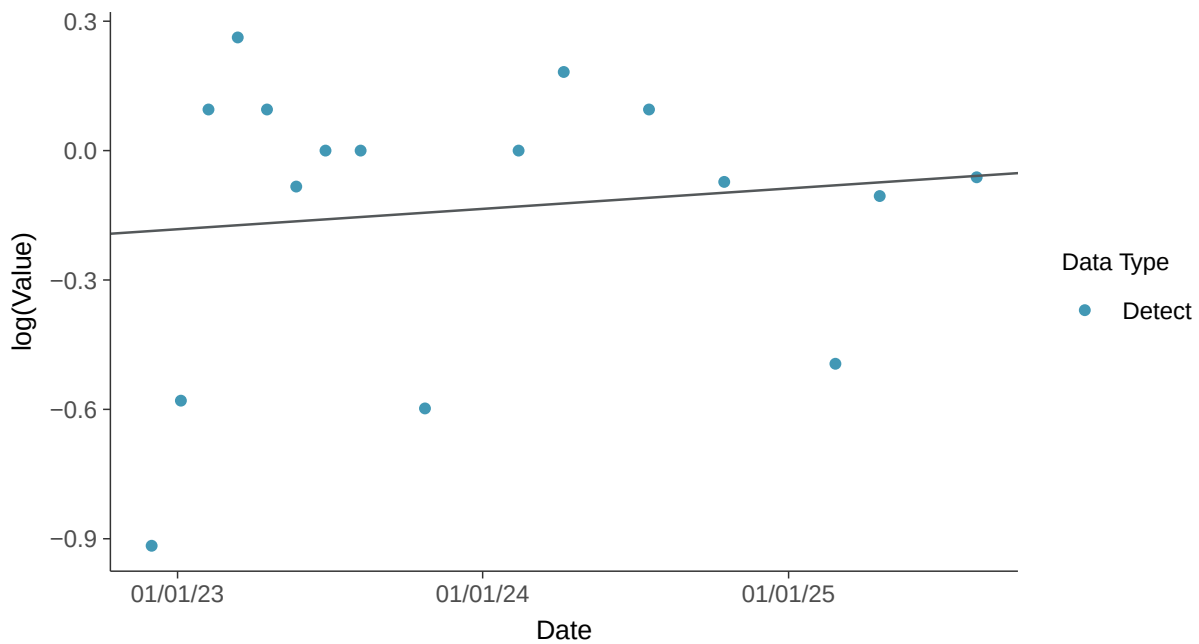
Normal Q-Q plot

Fluoride, MW-08 (mg/L)



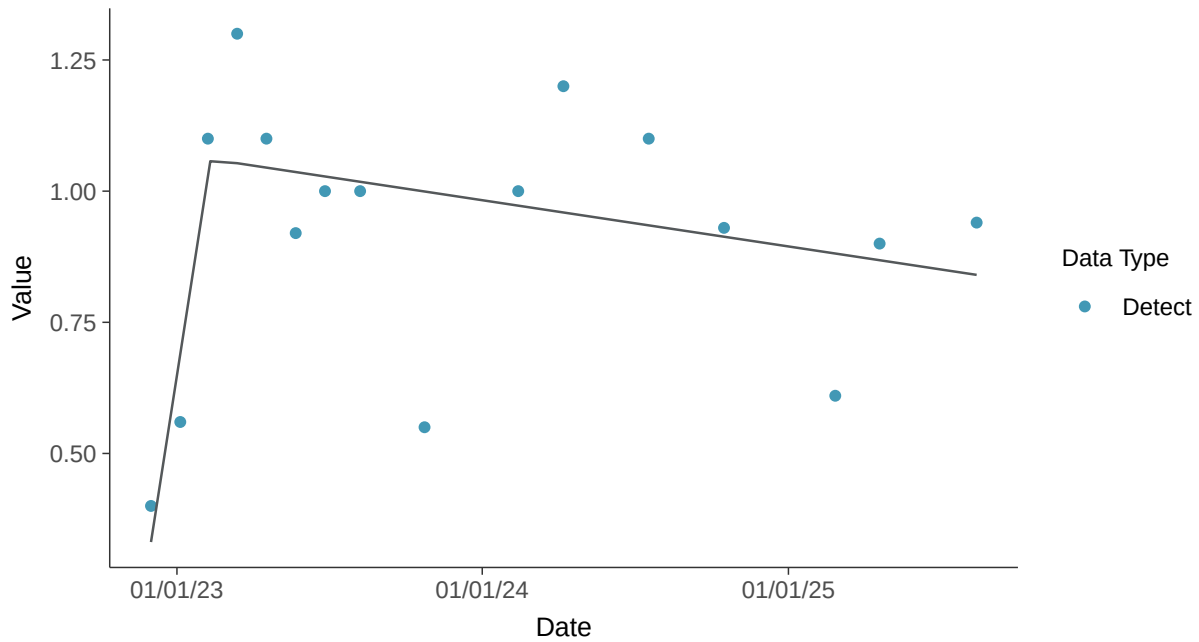
Trend Regression: Lognormal MLE

Fluoride, MW-08 (mg/L)



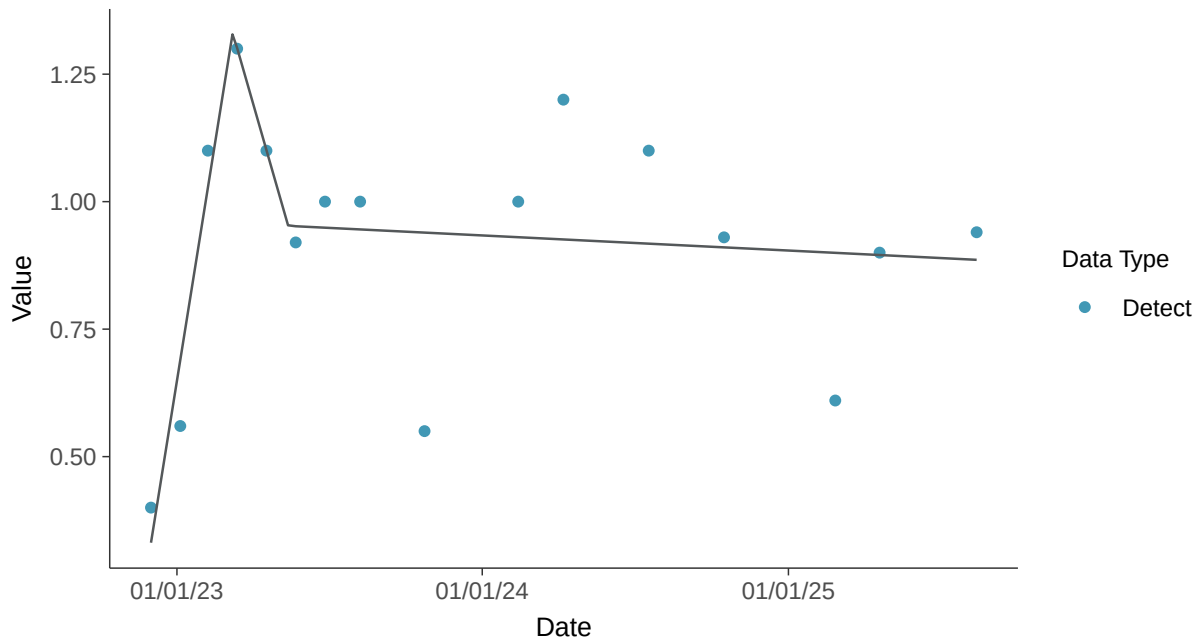
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-08 (mg/L)



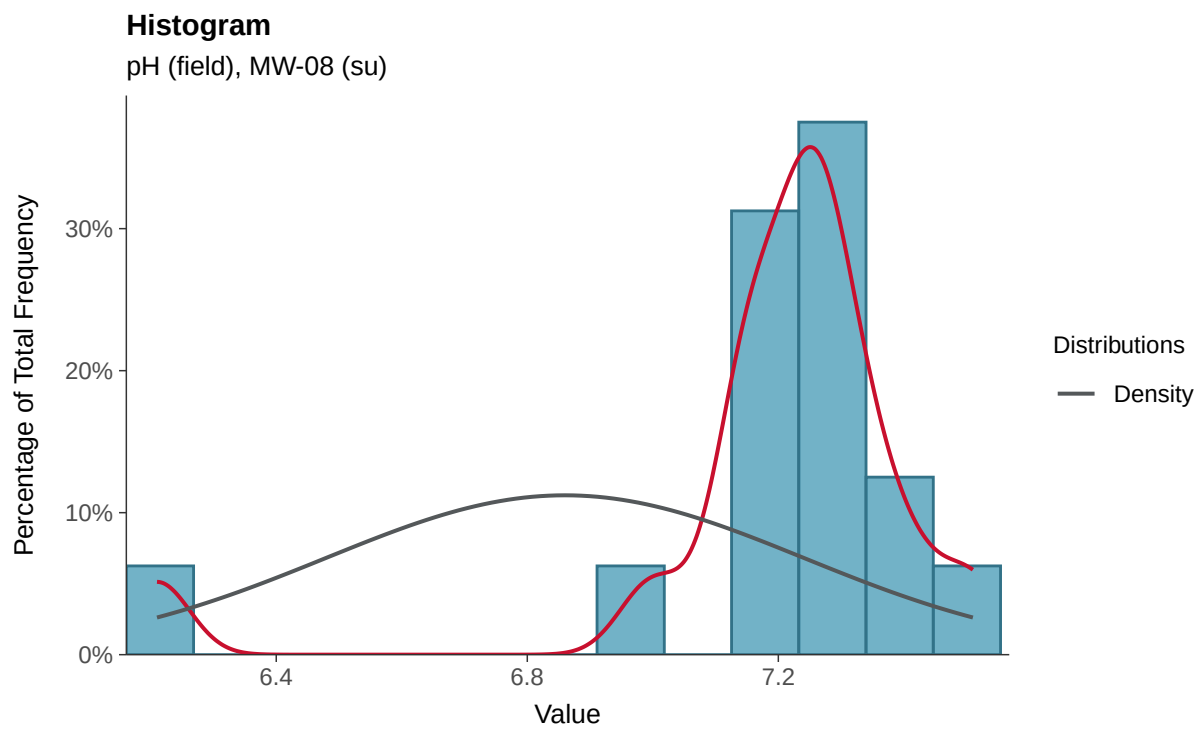
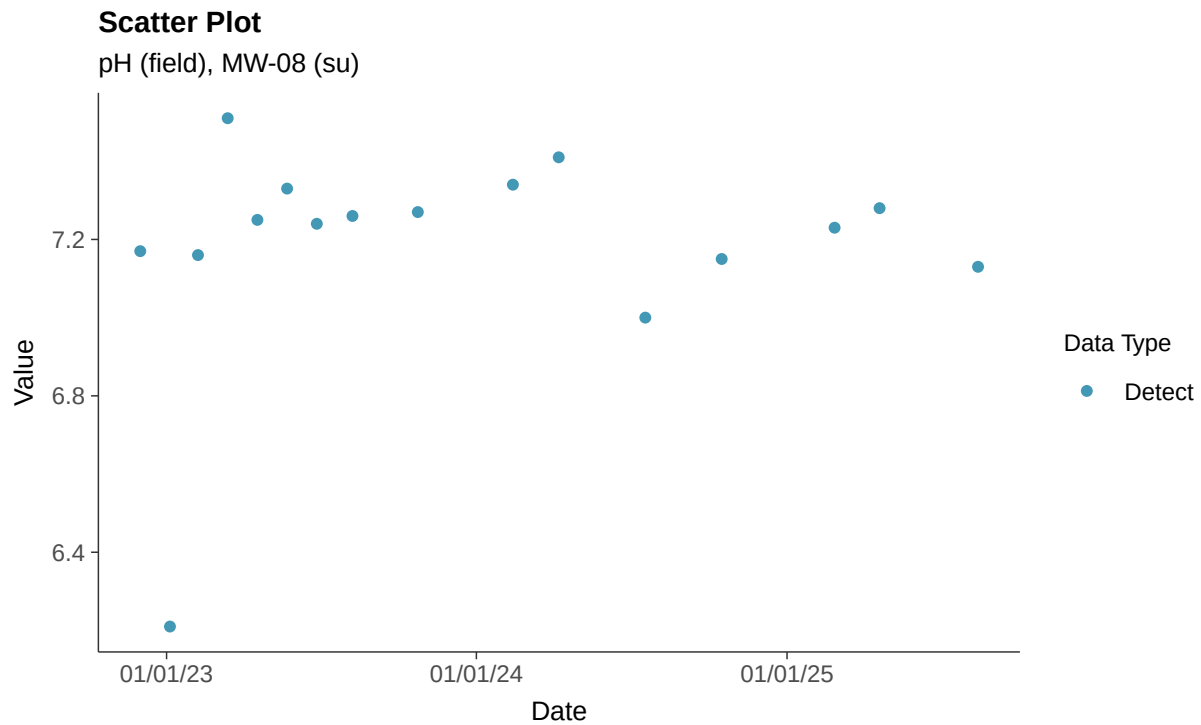
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-08 (mg/L)



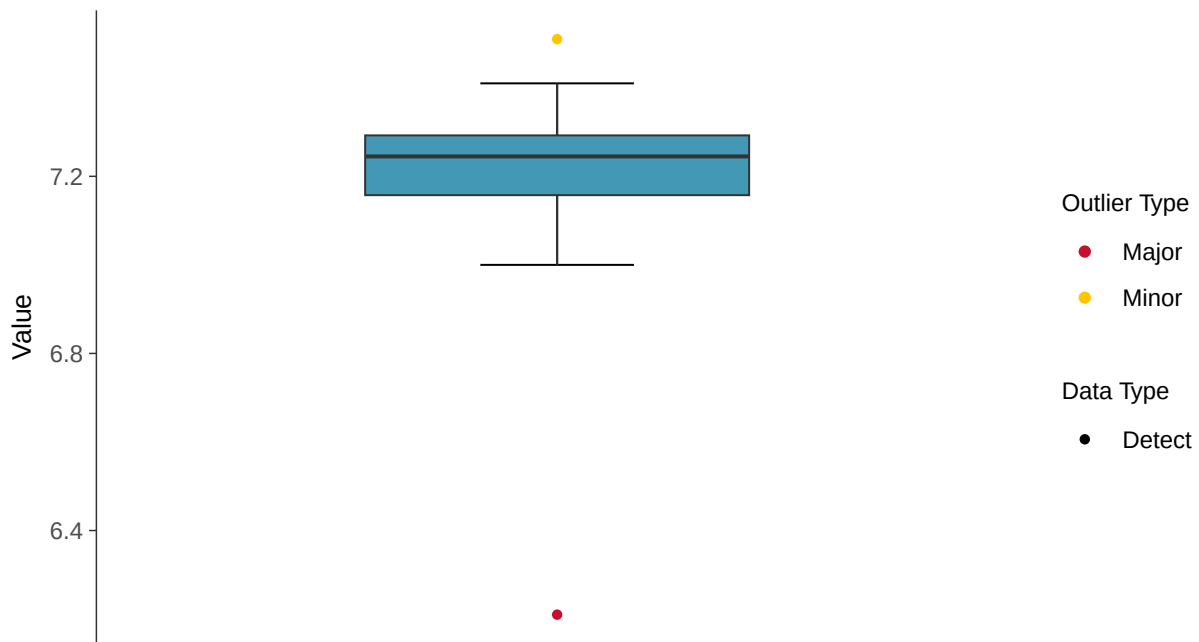
Appendix III: pH (field), MW-08

ID: 18_1_3_120



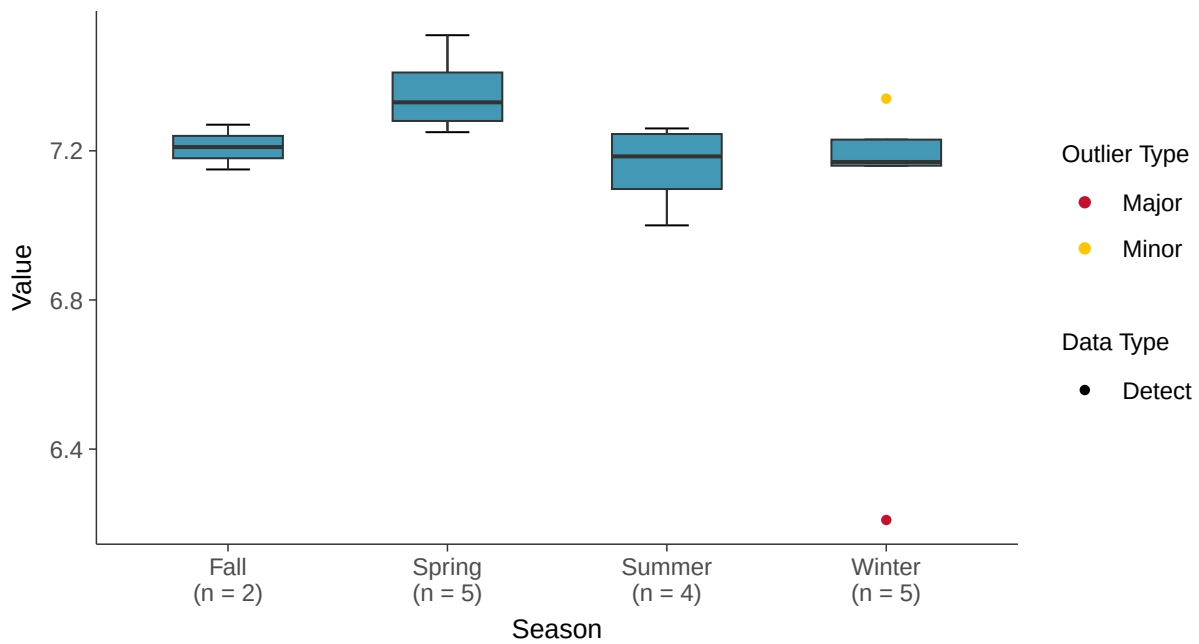
Boxplot

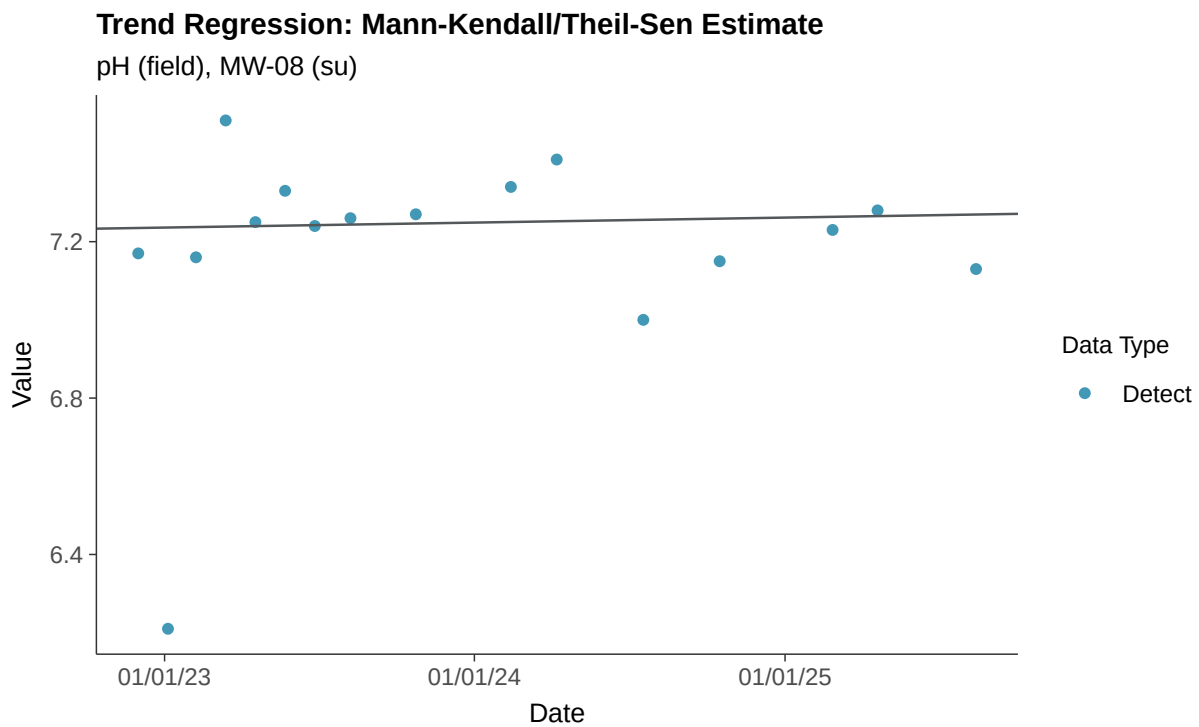
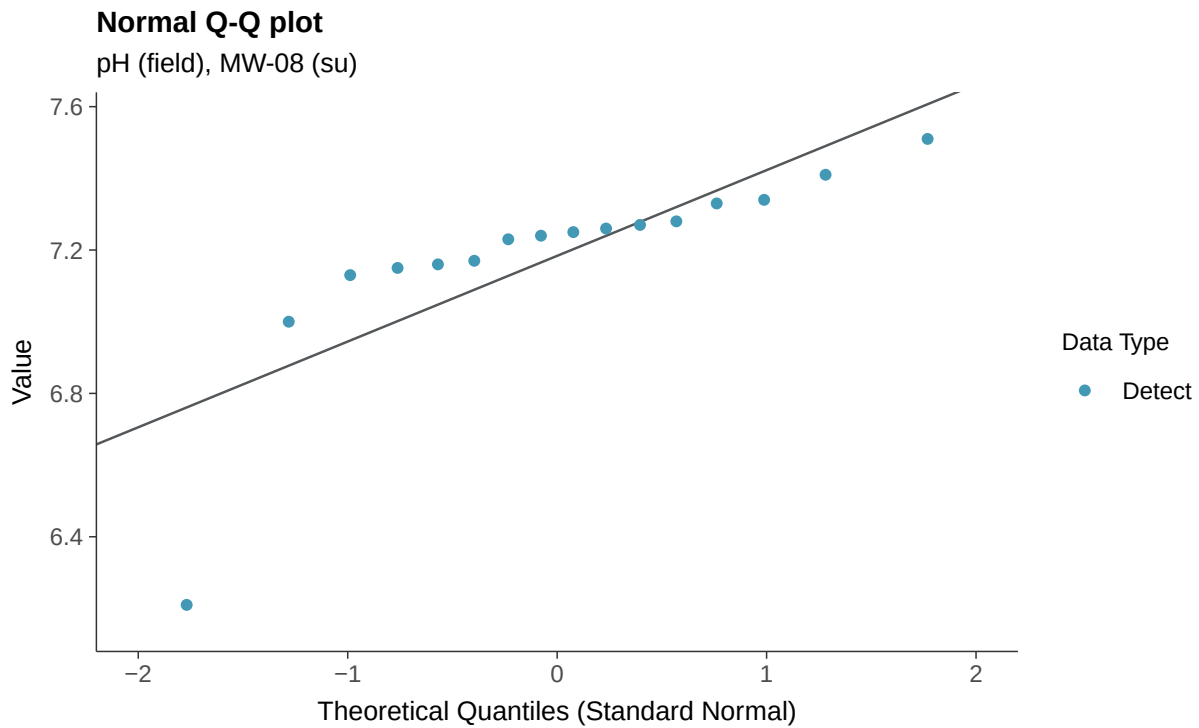
pH (field), MW-08 (su)

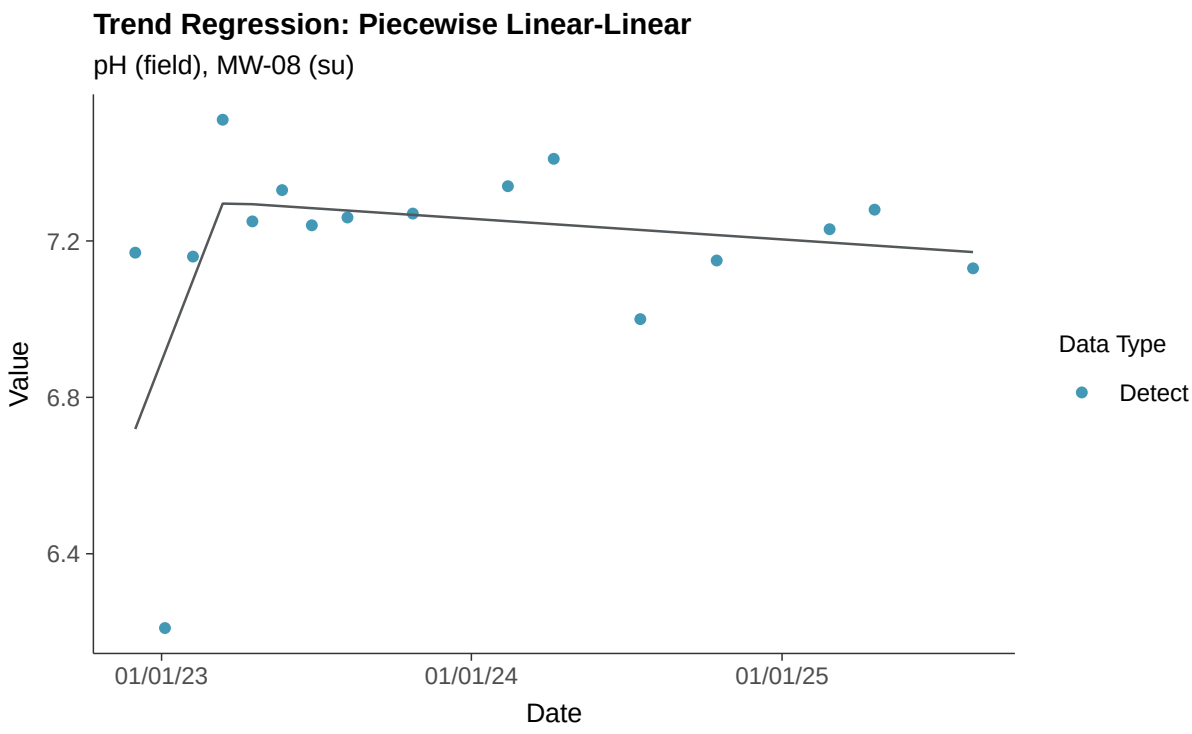


Boxplot by Season

pH (field), MW-08 (su)





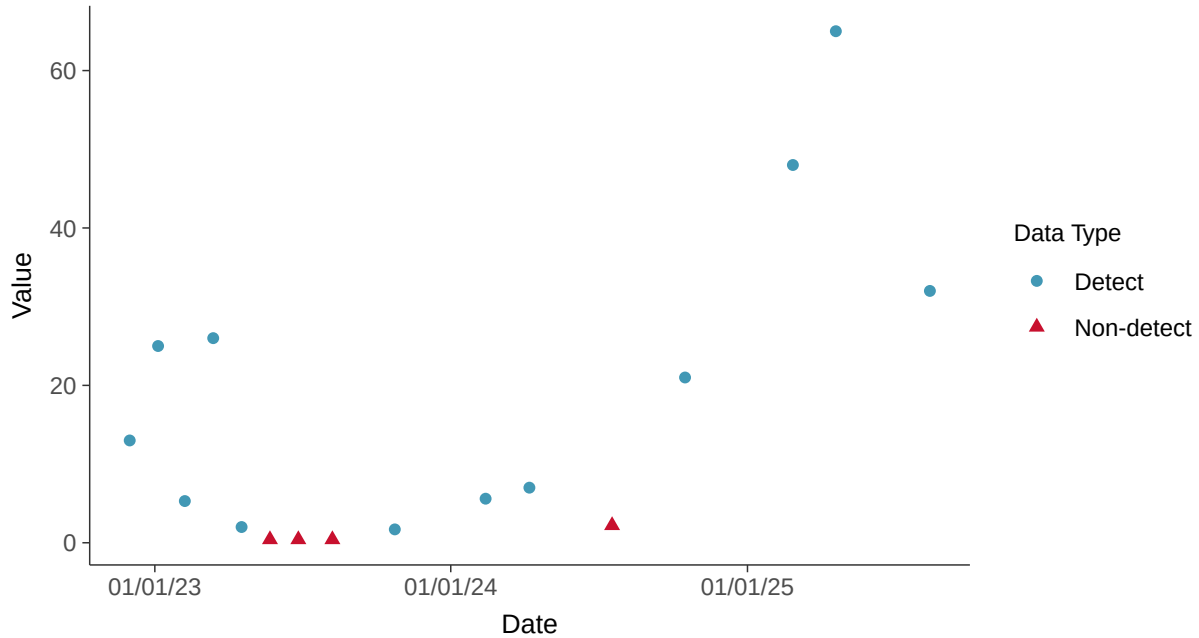


Appendix III: Sulfate (as SO₄), MW-08

ID: 18_1_3_124

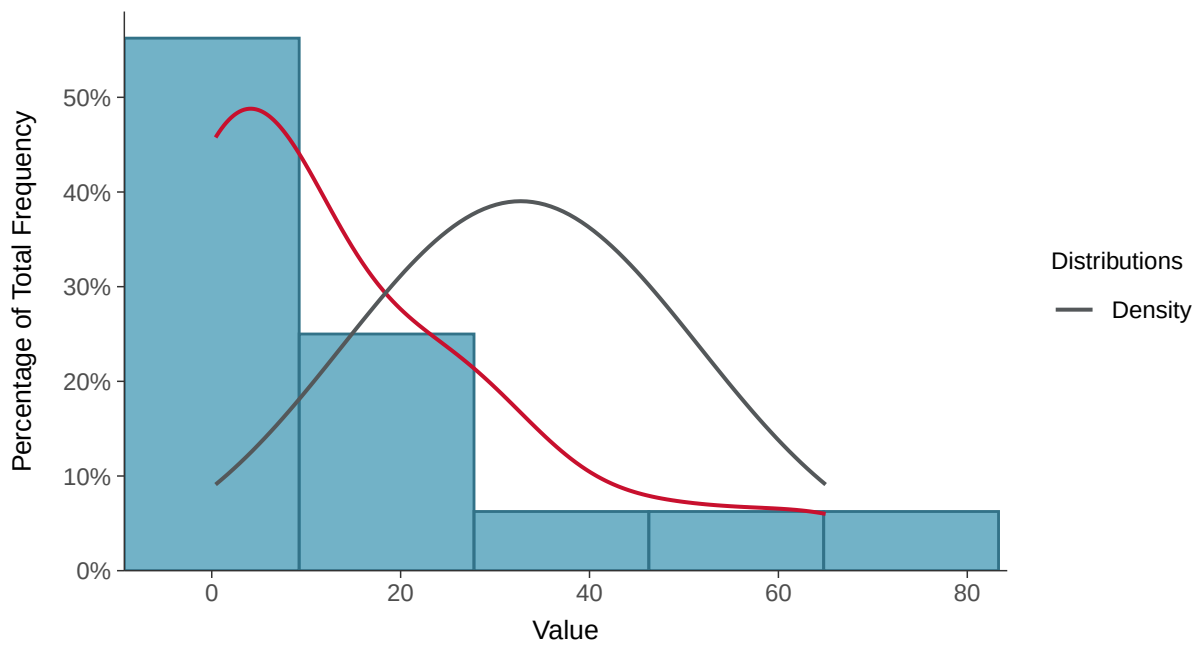
Scatter Plot

Sulfate (as SO₄), MW-08 (mg/L)



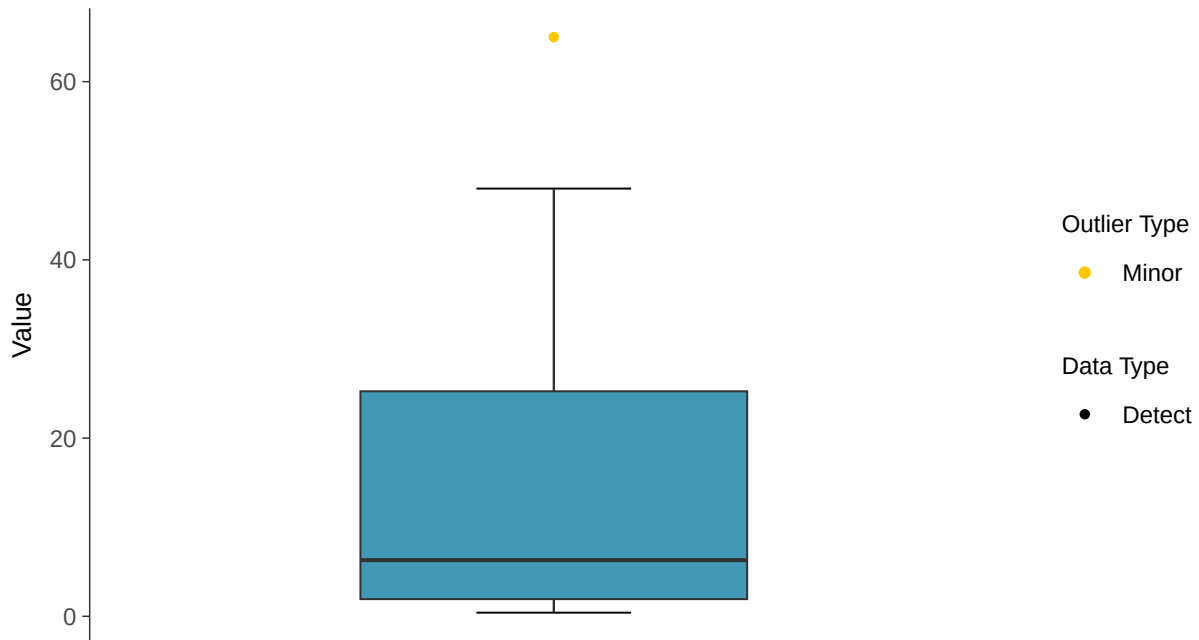
Histogram

Sulfate (as SO₄), MW-08 (mg/L)



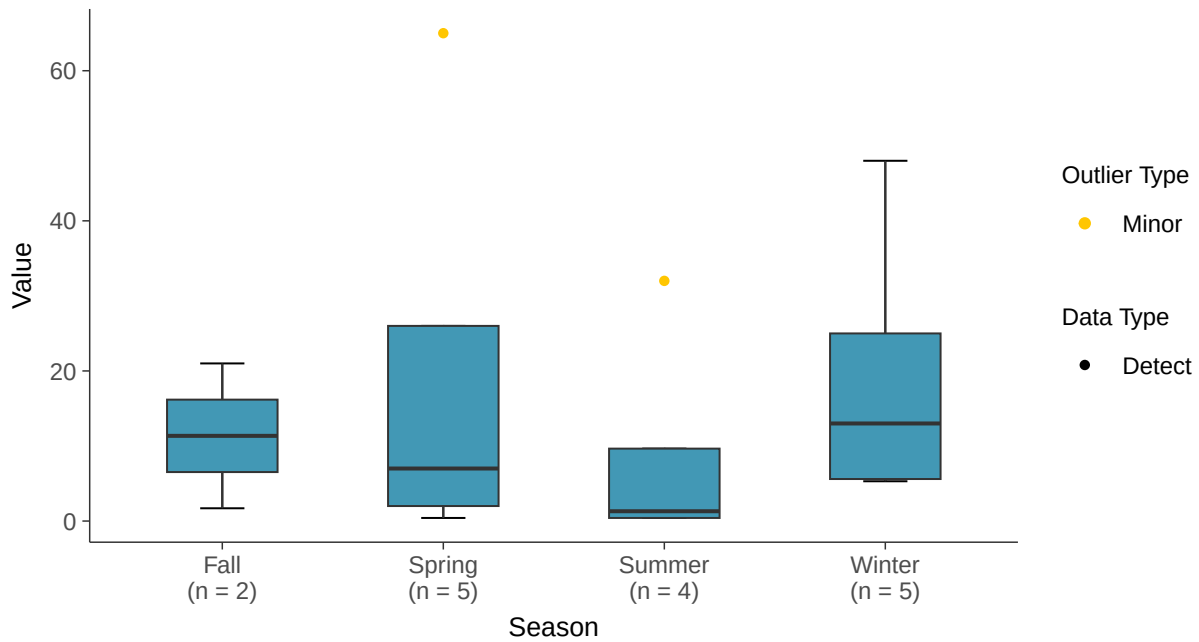
Boxplot

Sulfate (as SO₄), MW-08 (mg/L)



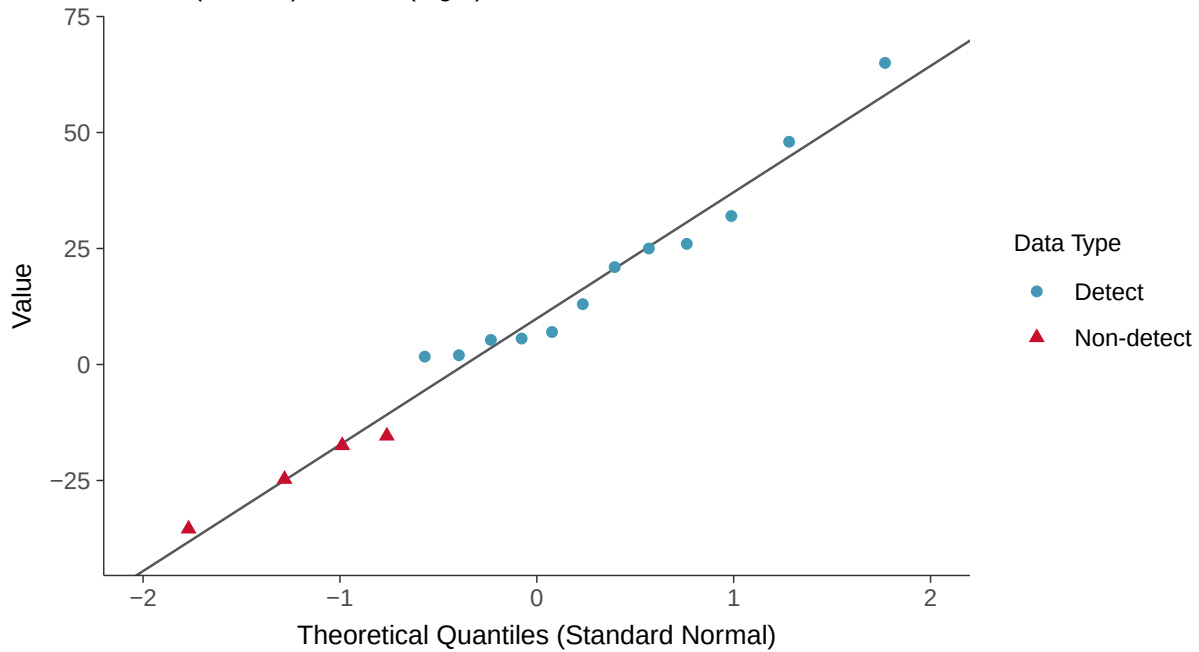
Boxplot by Season

Sulfate (as SO₄), MW-08 (mg/L)



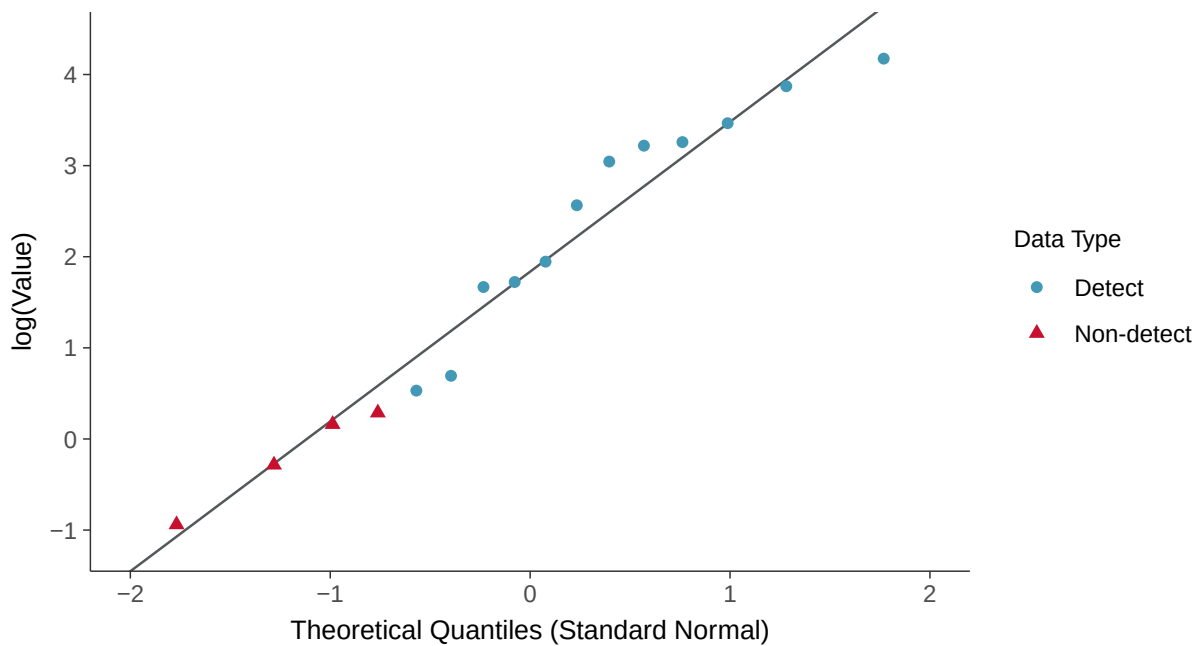
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-08 (mg/L)



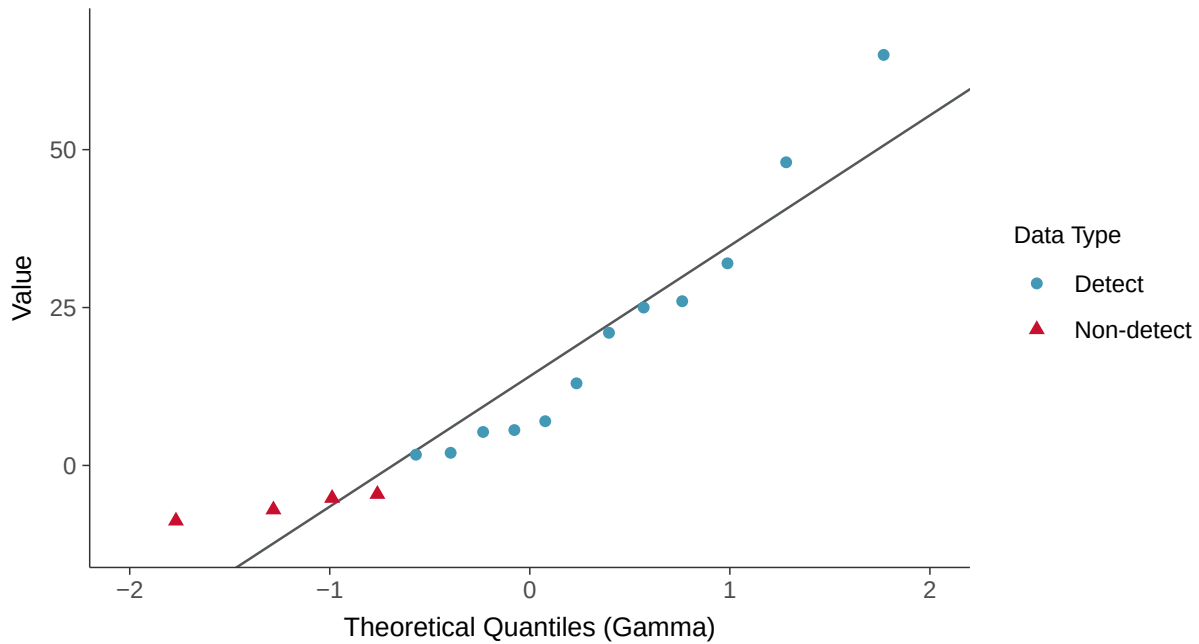
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-08 (mg/L)



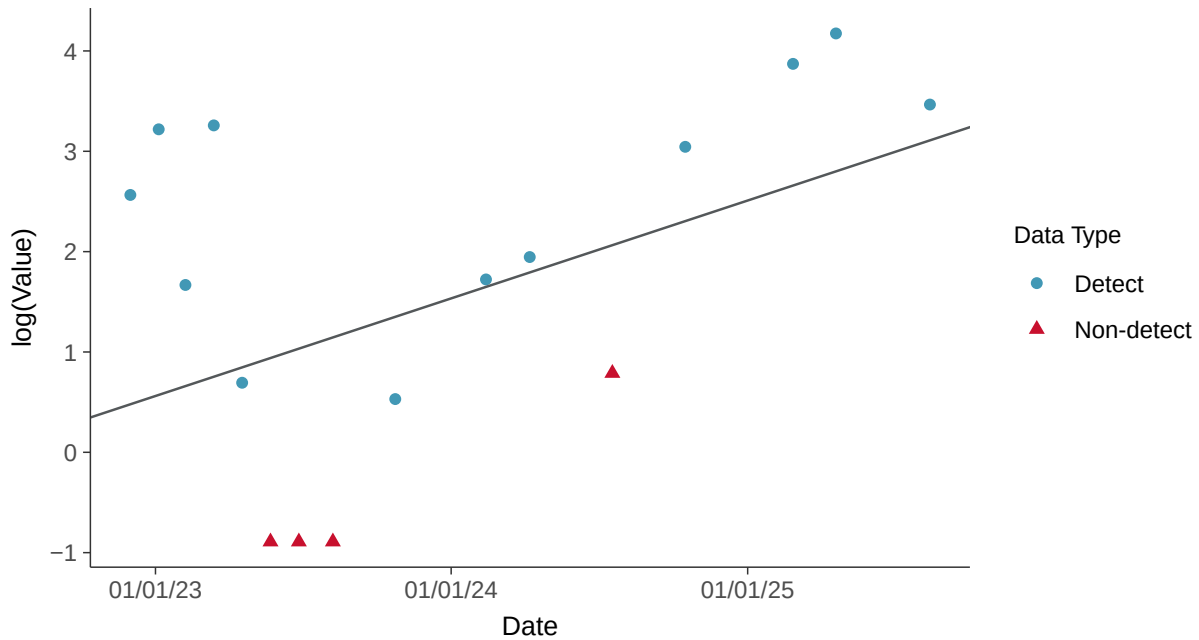
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-08 (mg/L)



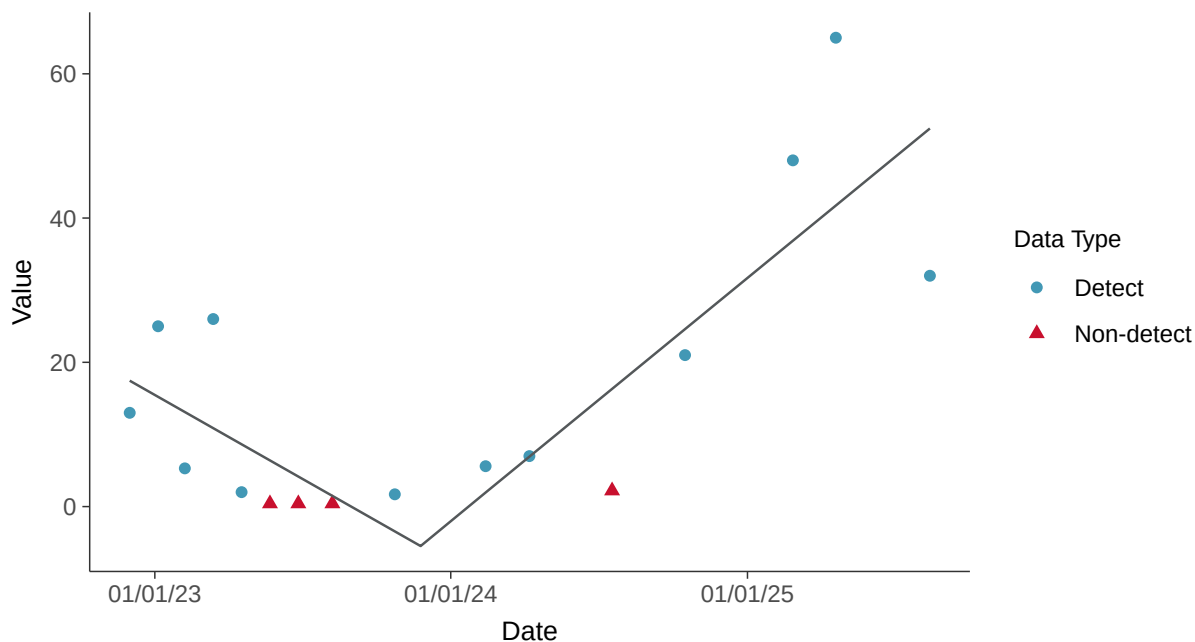
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-08 (mg/L)



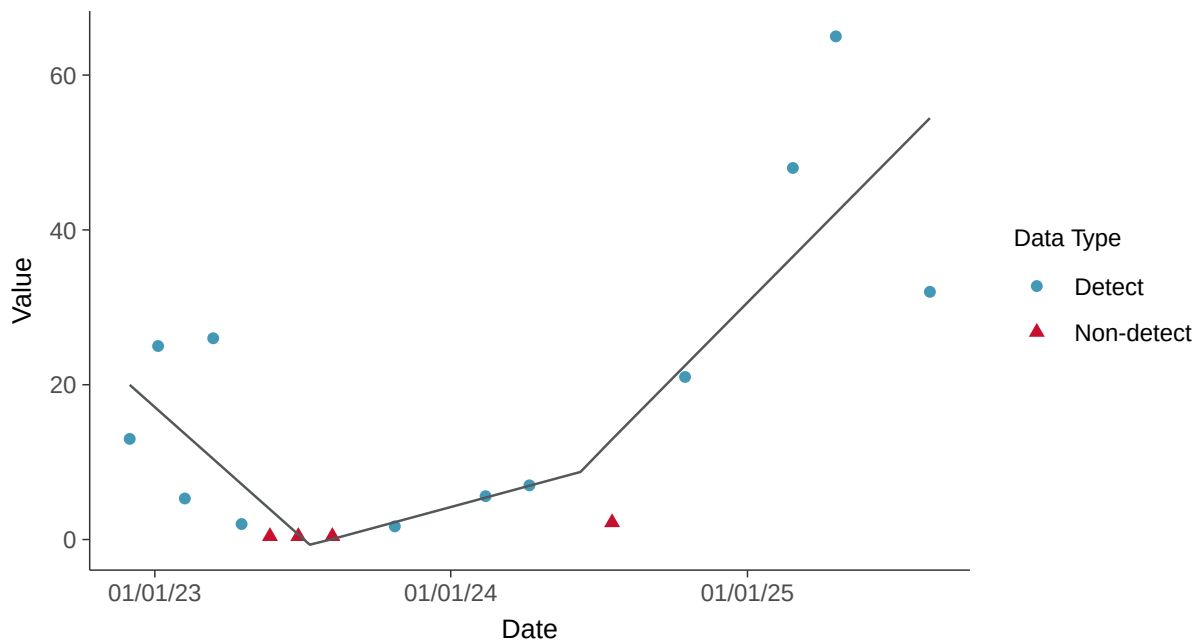
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-08 (mg/L)

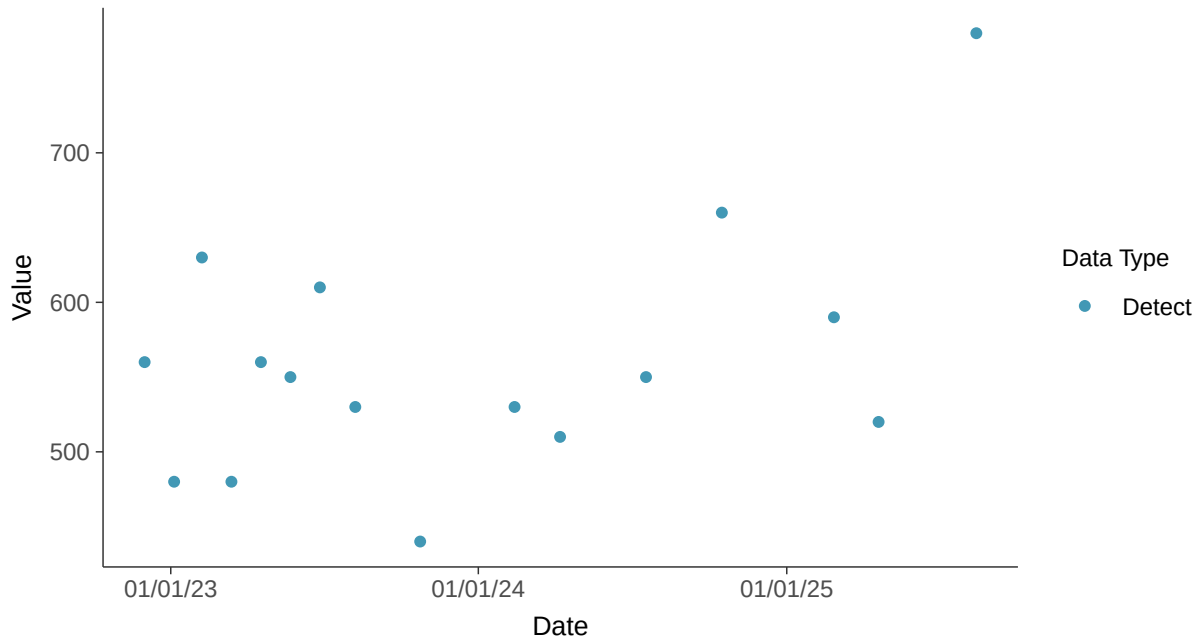


Appendix III: Total Dissolved Solids, MW-08

ID: 18_1_3_126

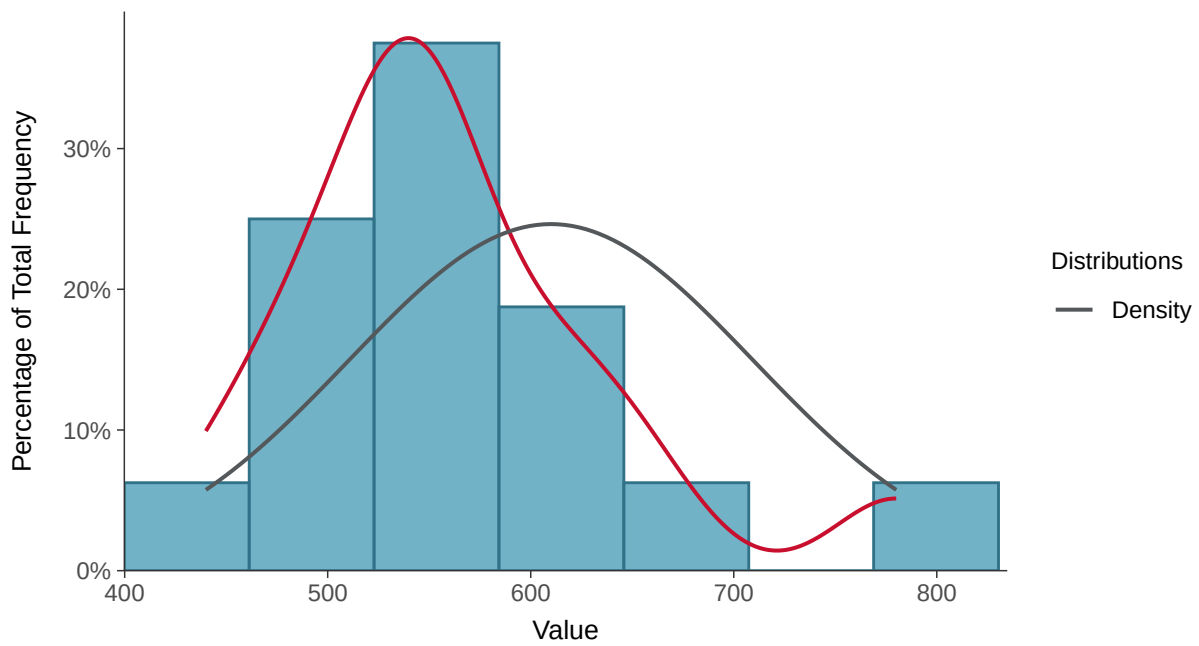
Scatter Plot

Total Dissolved Solids, MW-08 (mg/L)



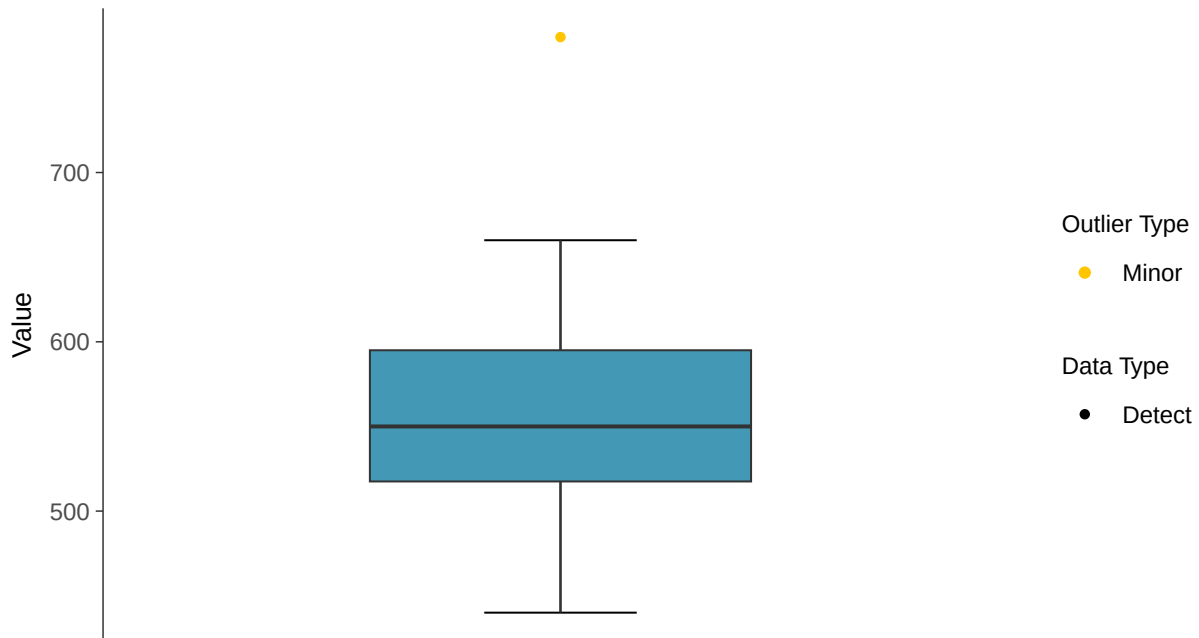
Histogram

Total Dissolved Solids, MW-08 (mg/L)



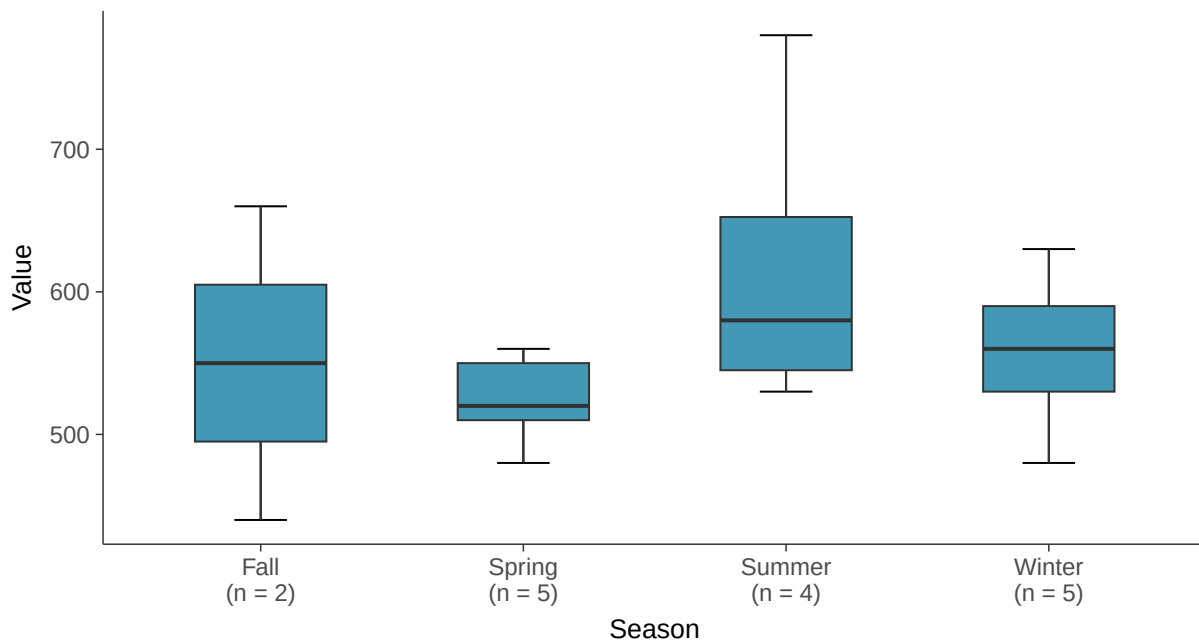
Boxplot

Total Dissolved Solids, MW-08 (mg/L)



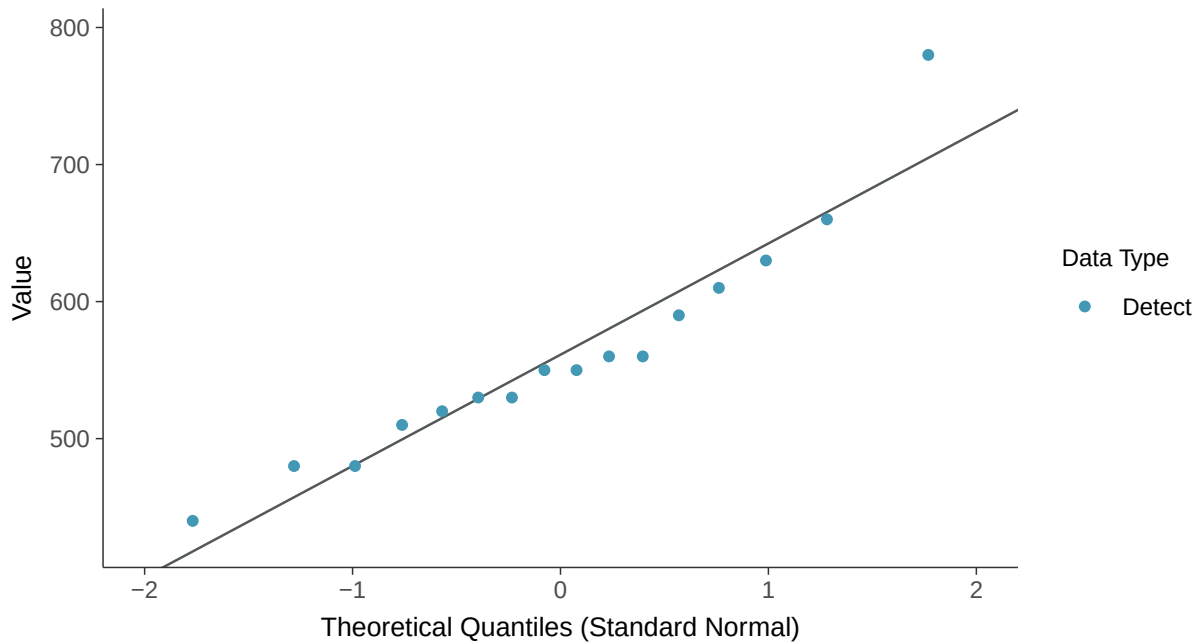
Boxplot by Season

Total Dissolved Solids, MW-08 (mg/L)



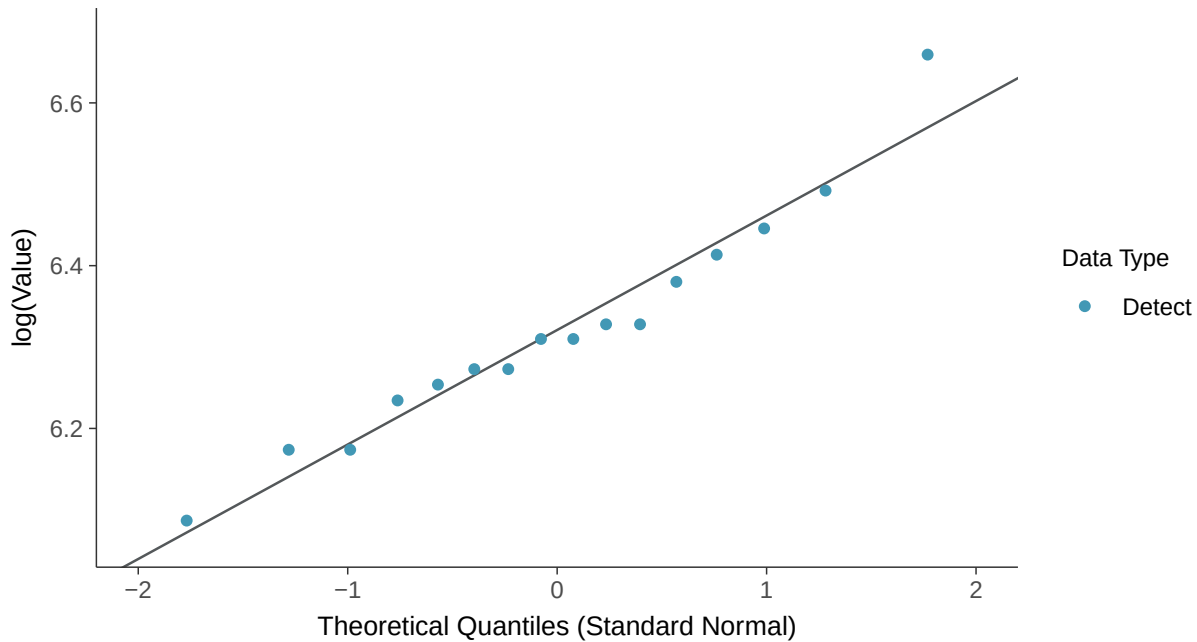
Normal Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



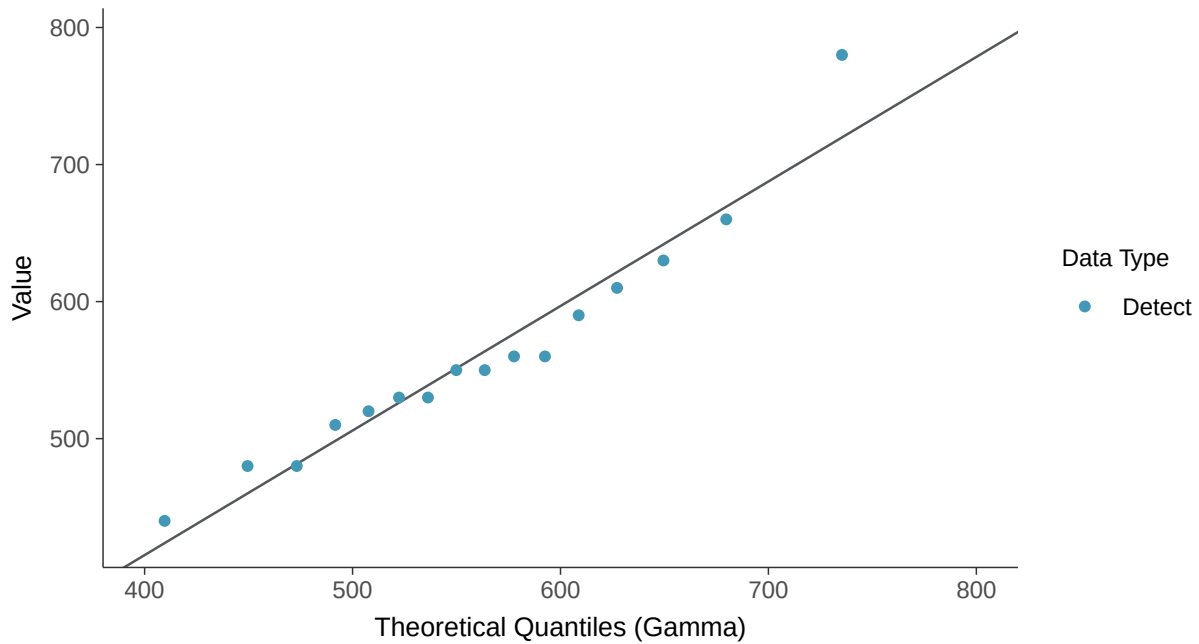
Lognormal Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



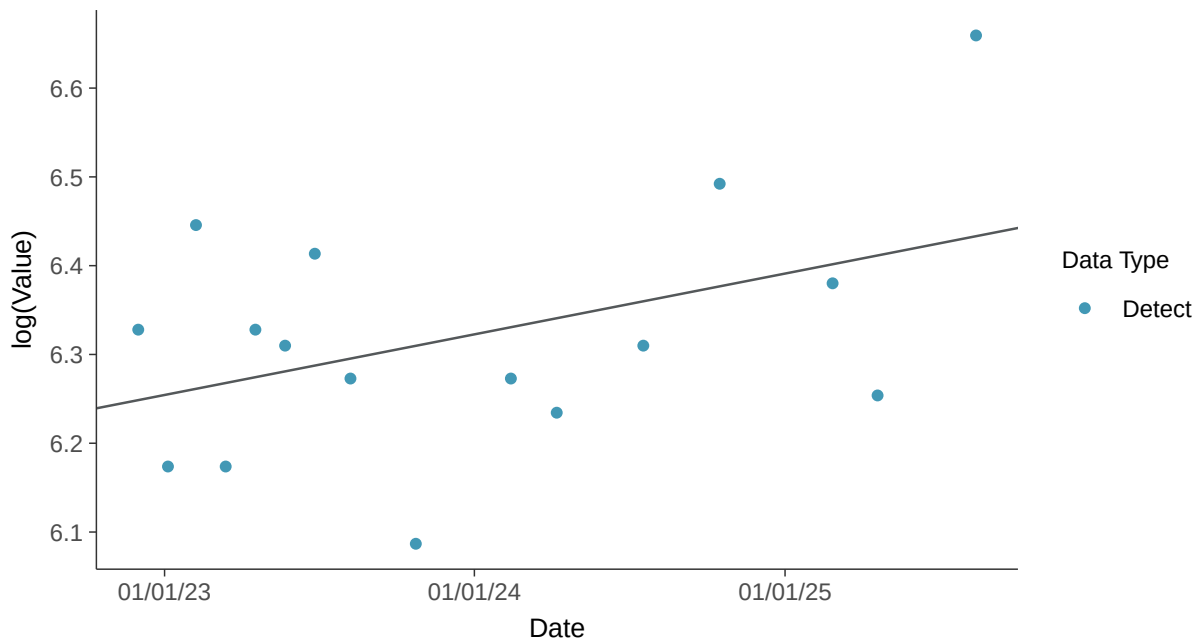
Gamma Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



Trend Regression: Lognormal MLE

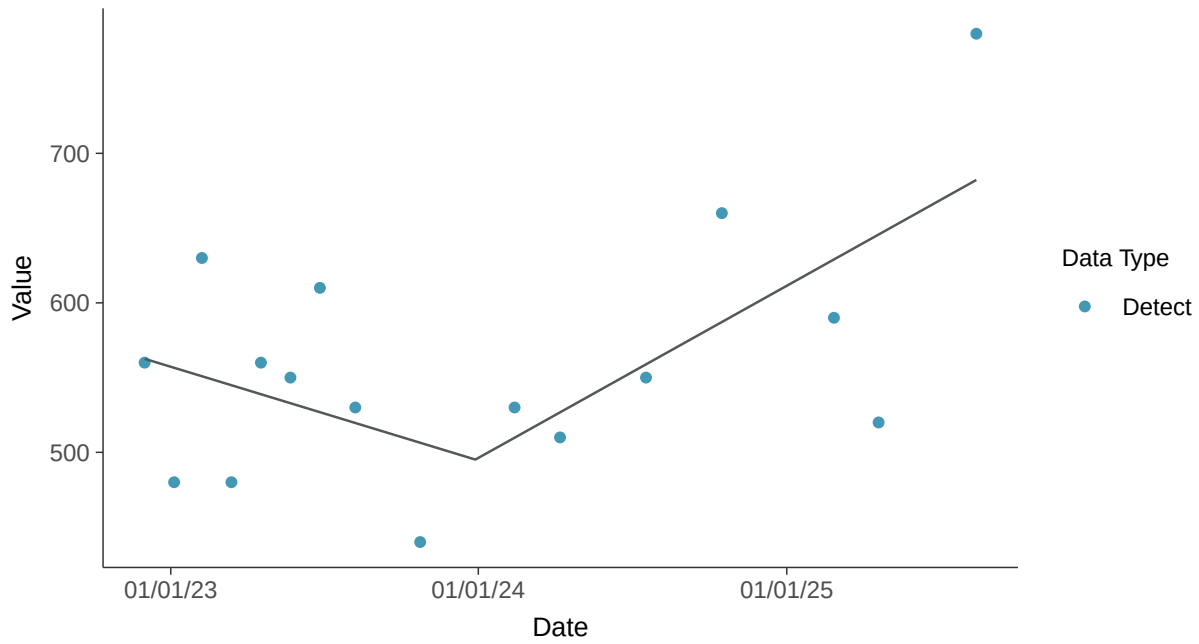
Total Dissolved Solids, MW-08 (mg/L)

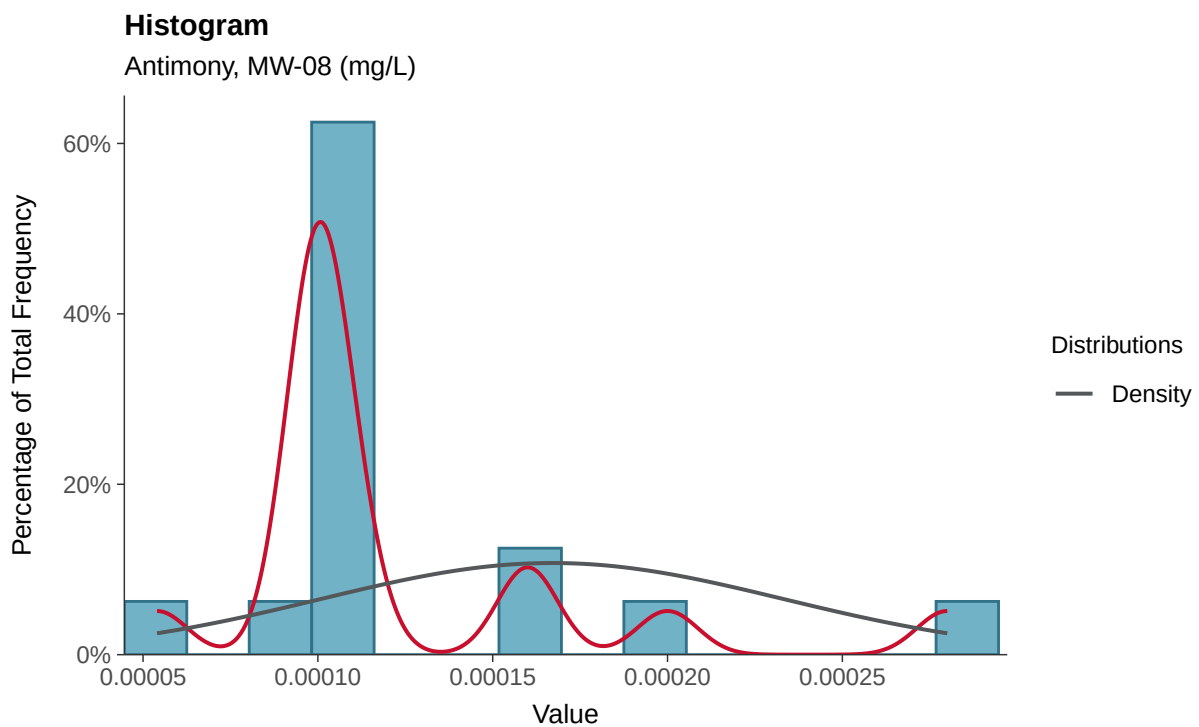


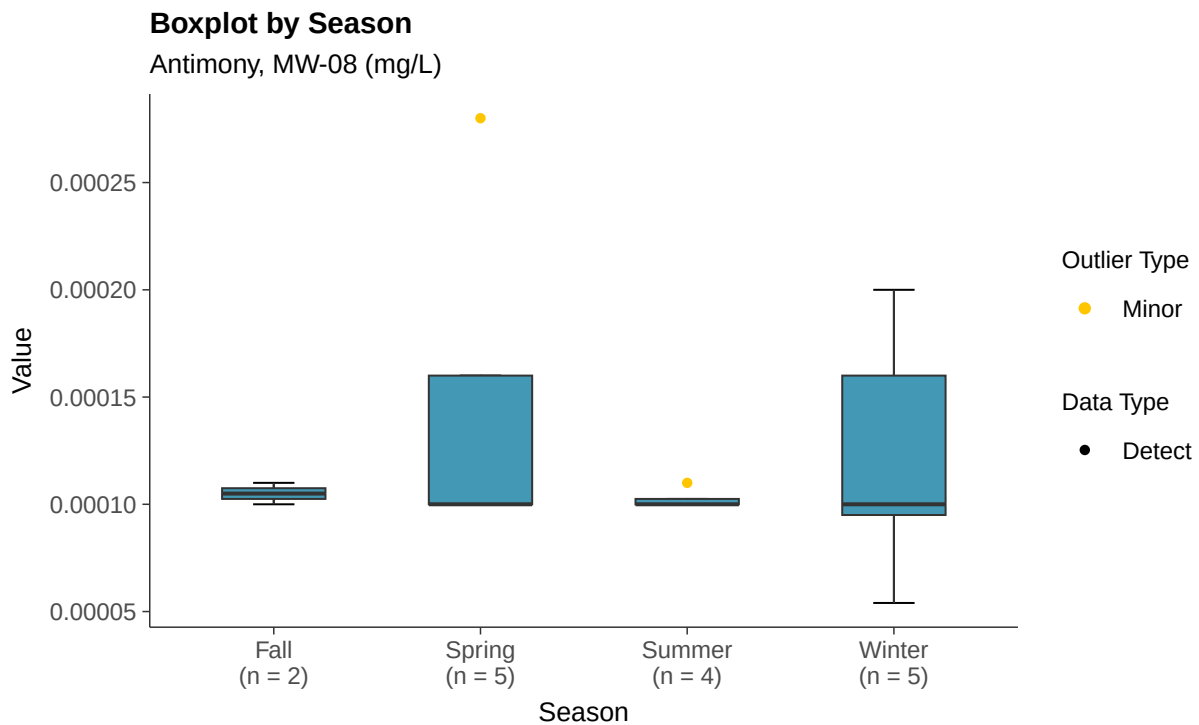
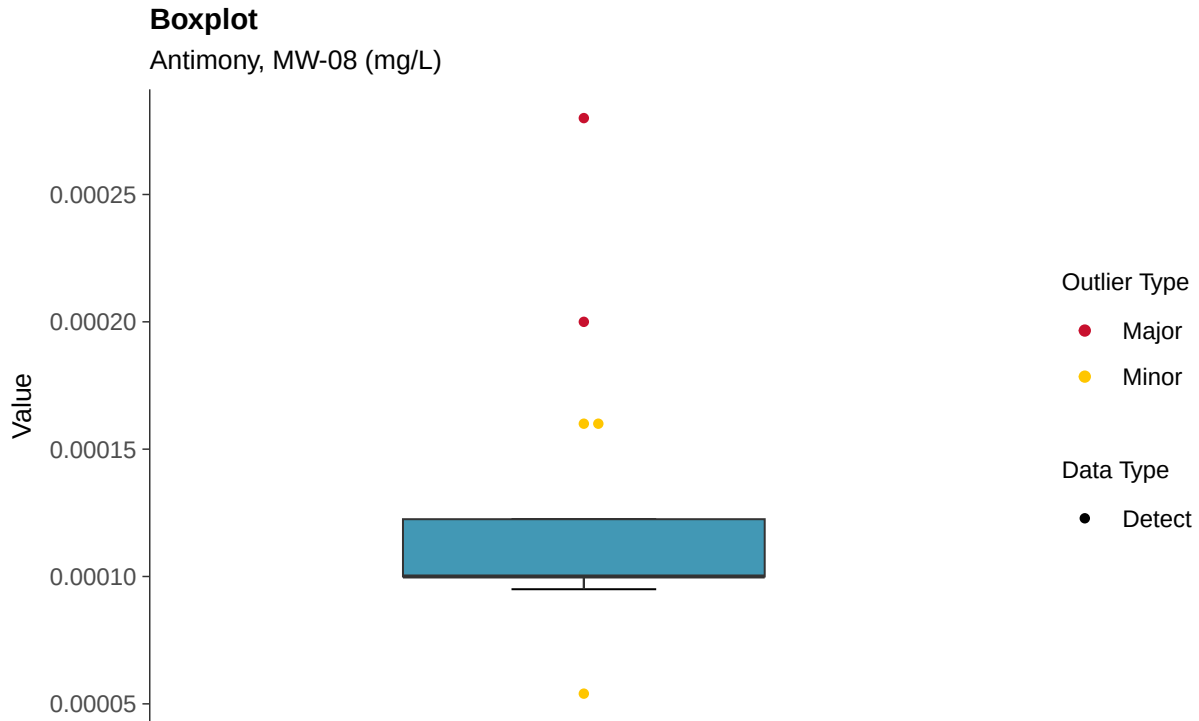


Trend Regression: Piecewise Linear-Linear

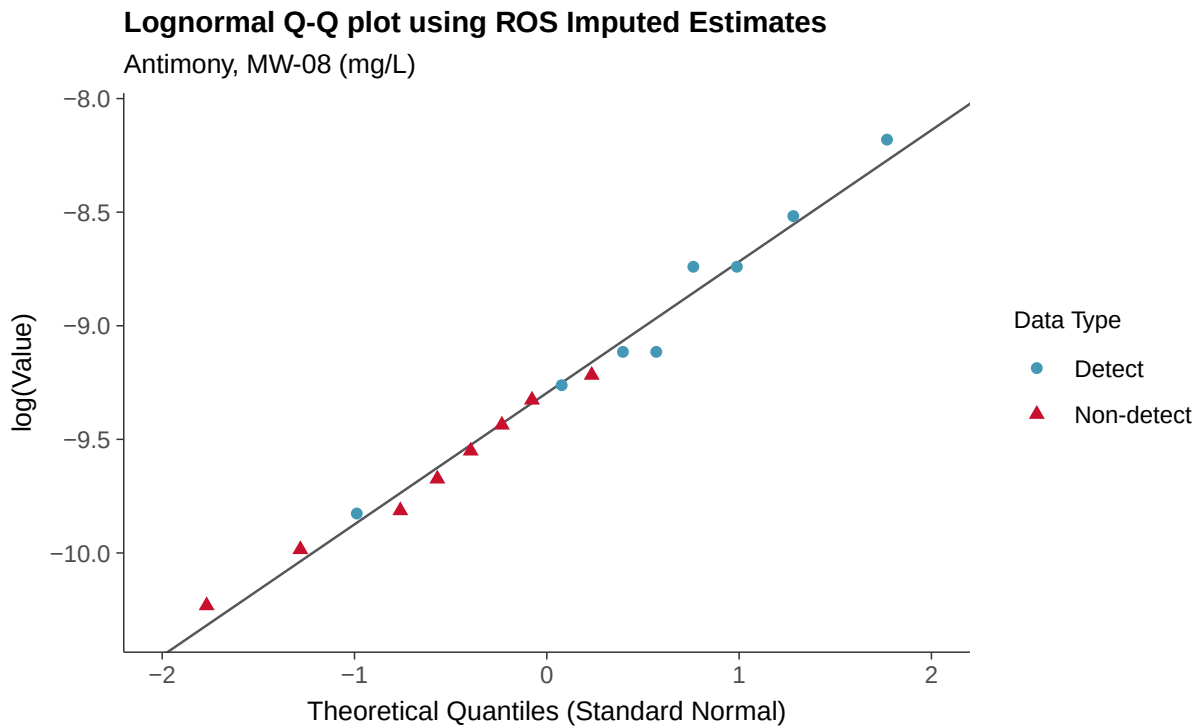
Total Dissolved Solids, MW-08 (mg/L)





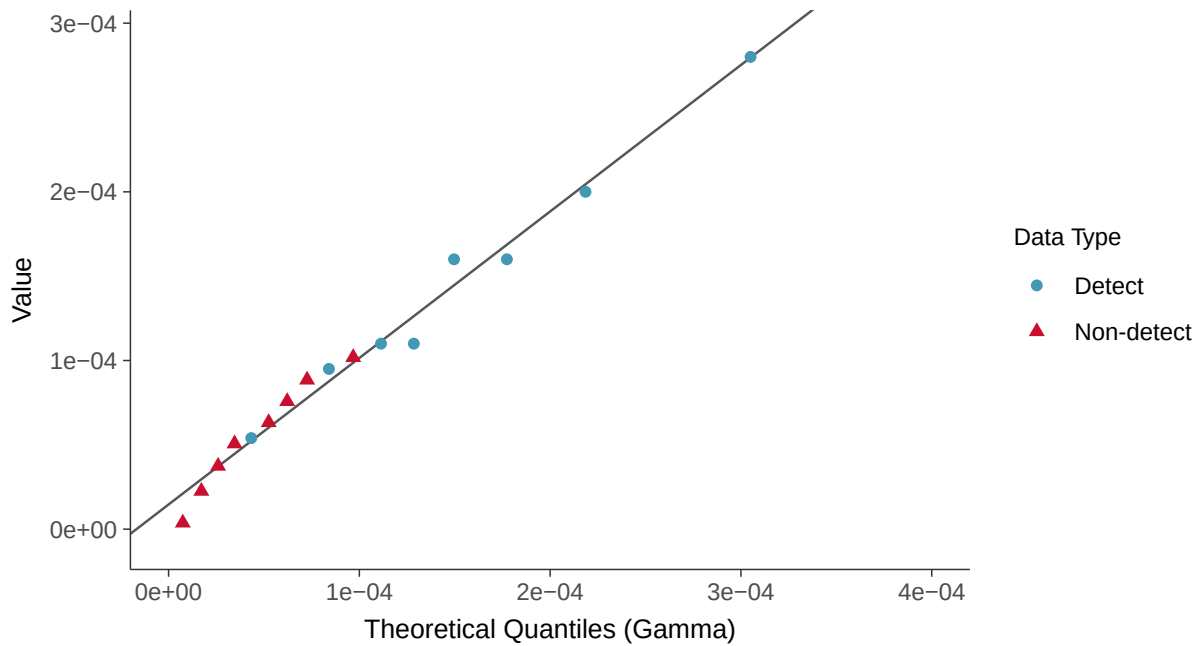


Antimony, MW-08 (mg/L)



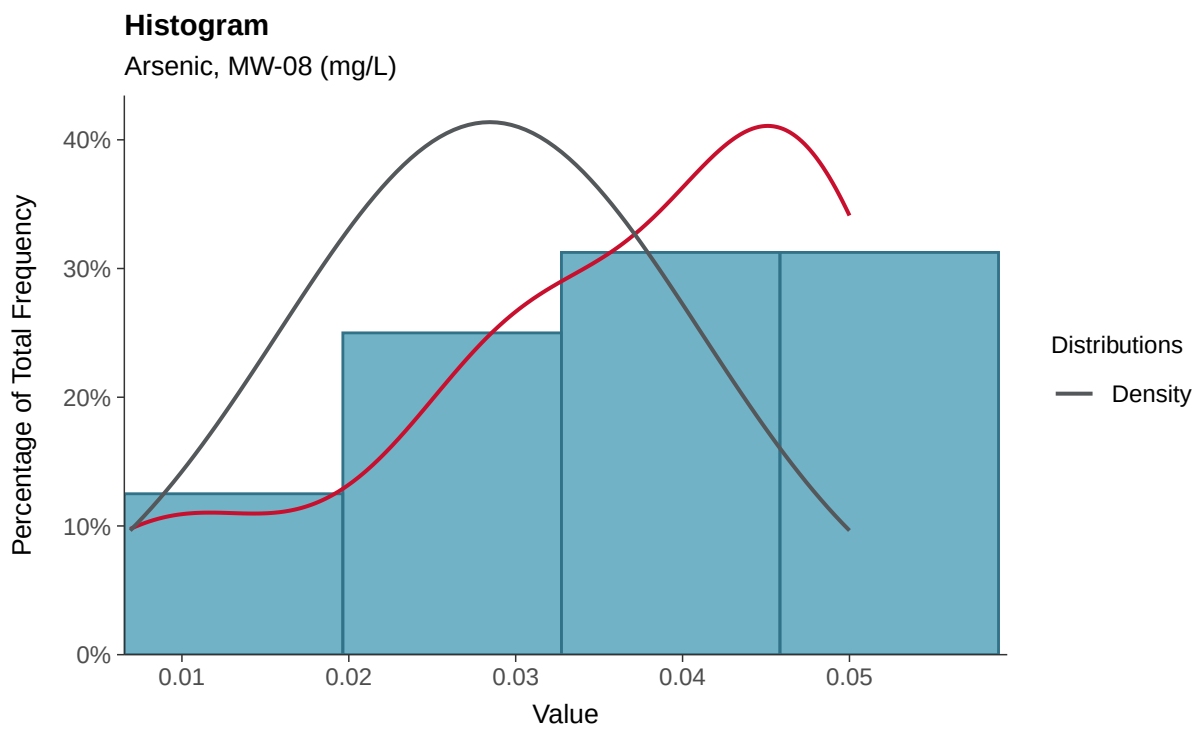
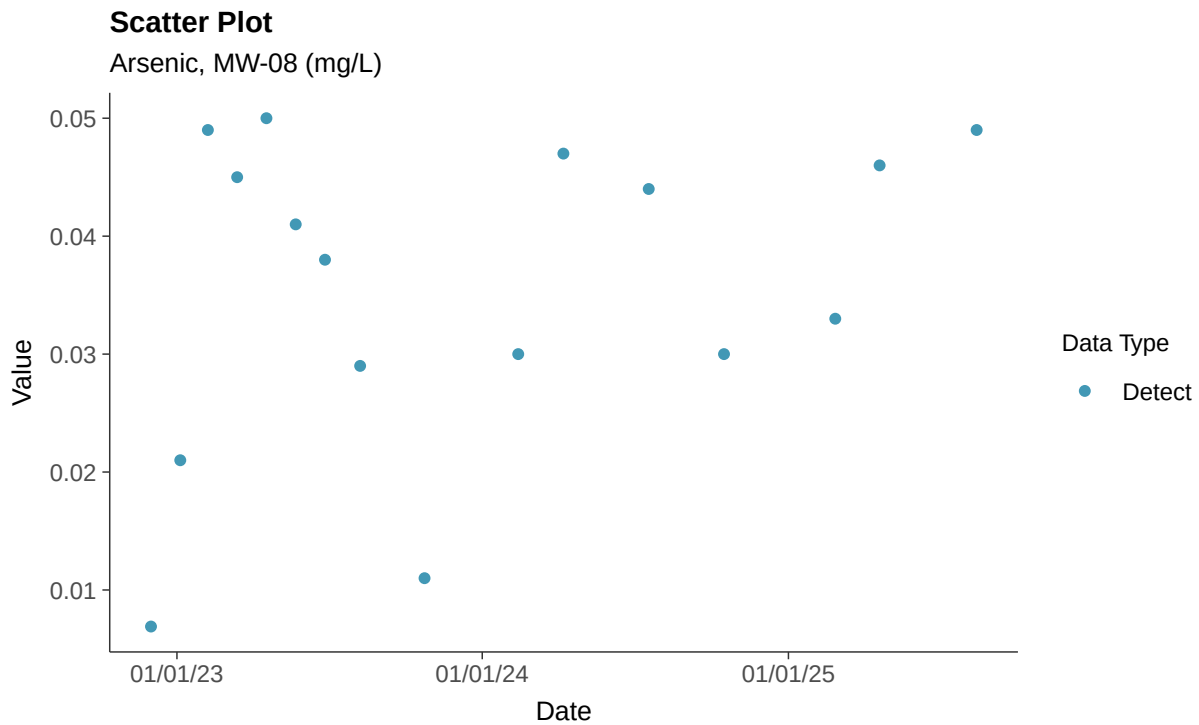
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-08 (mg/L)



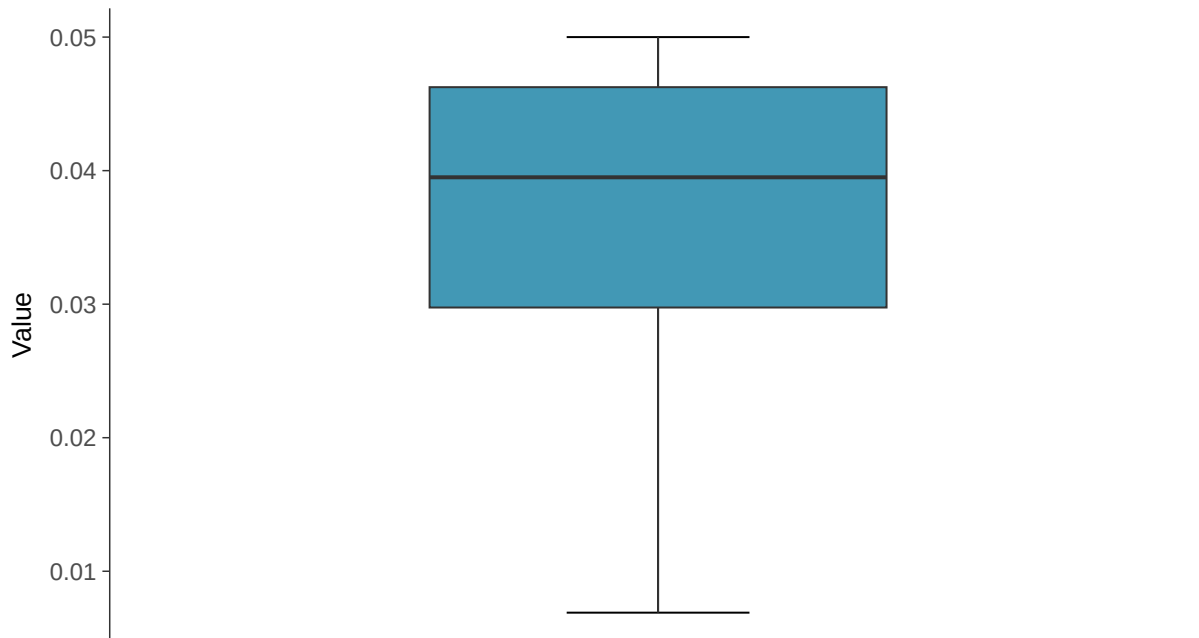
Appendix IV: Arsenic, MW-08

ID: 18_1_4_102



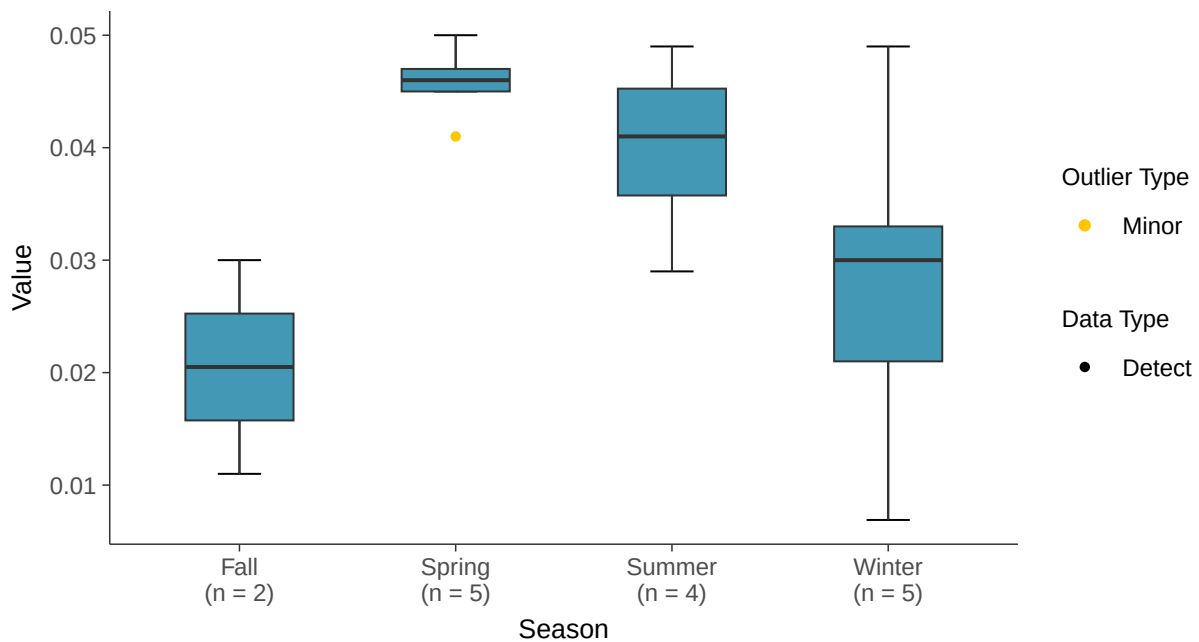
Boxplot

Arsenic, MW-08 (mg/L)



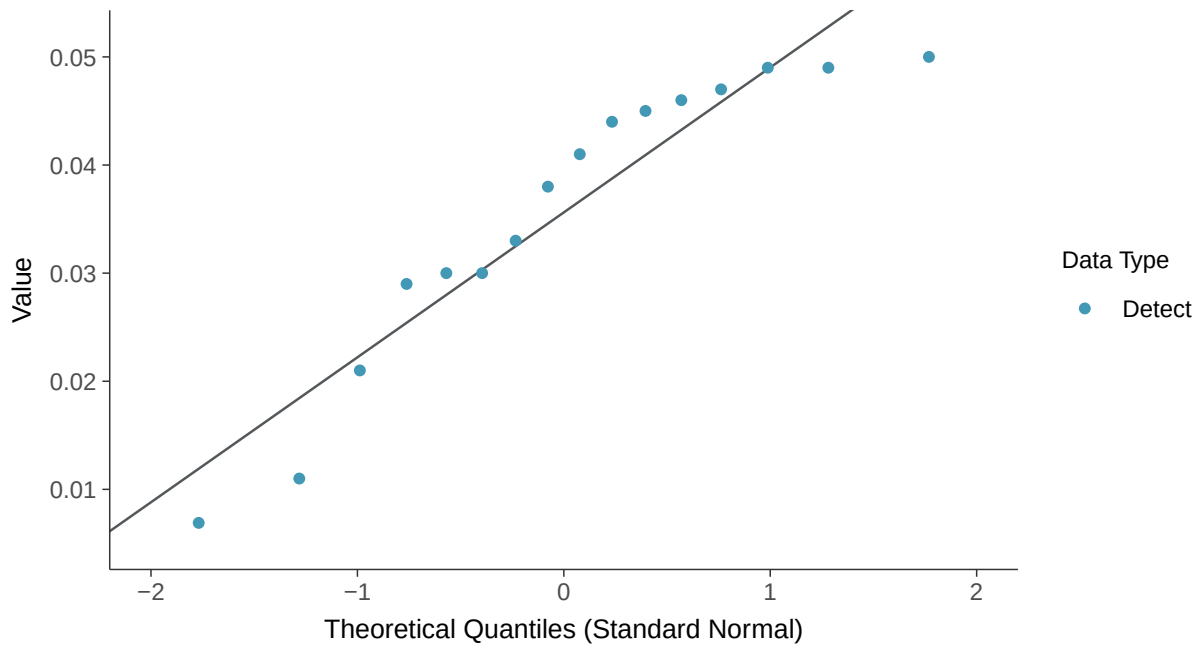
Boxplot by Season

Arsenic, MW-08 (mg/L)



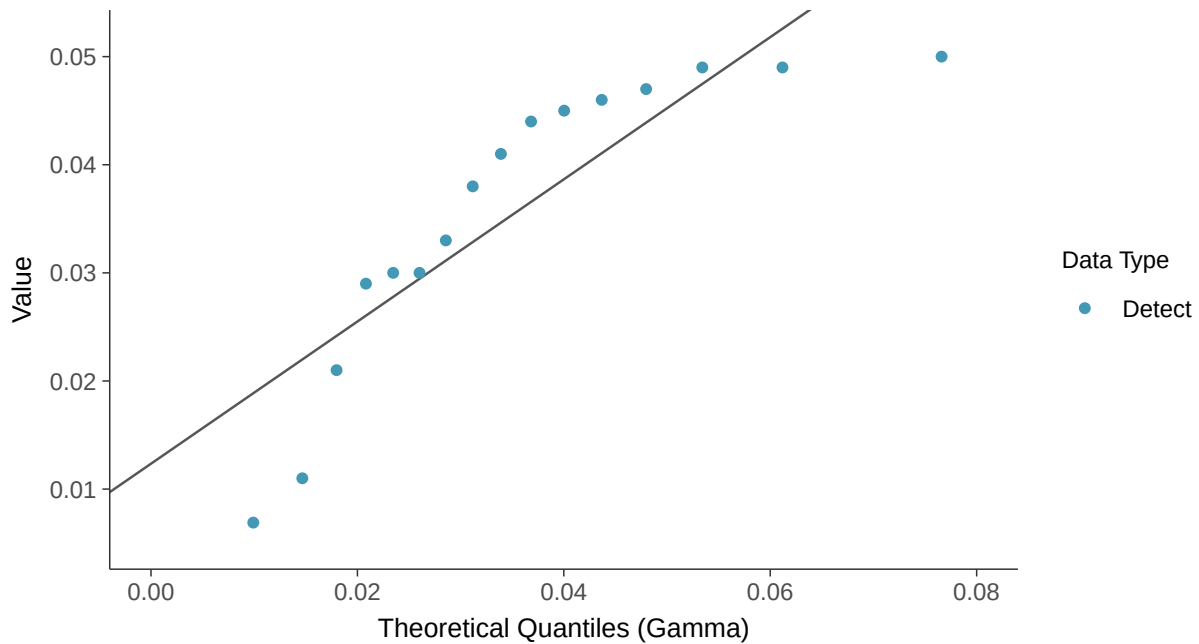
Normal Q-Q plot

Arsenic, MW-08 (mg/L)



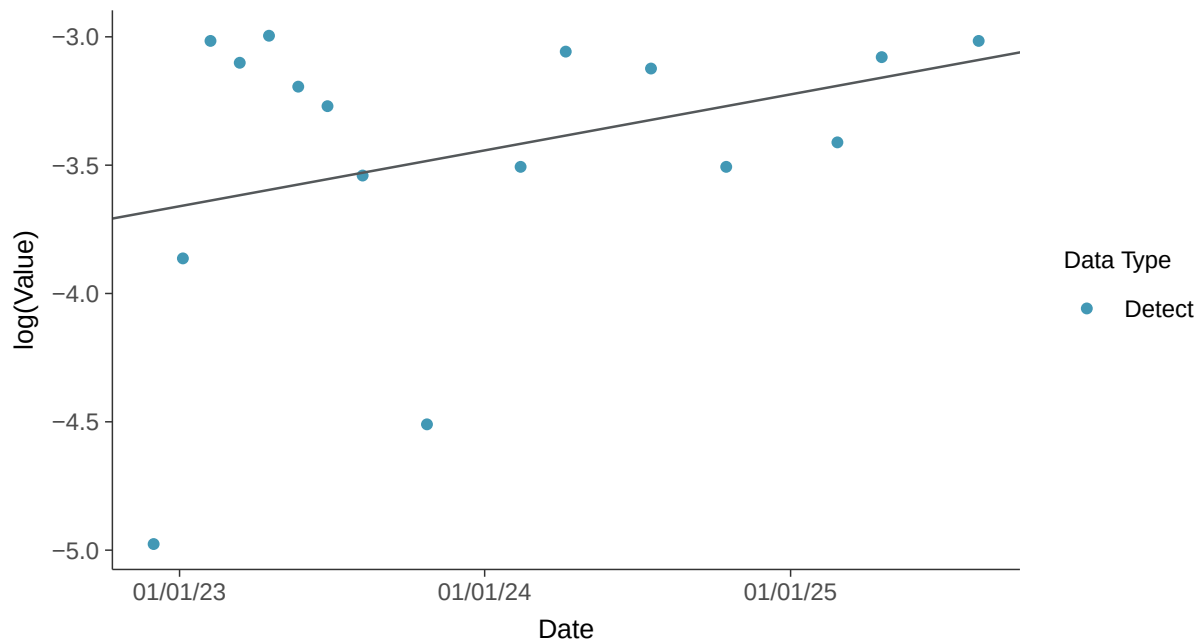
Gamma Q-Q plot

Arsenic, MW-08 (mg/L)



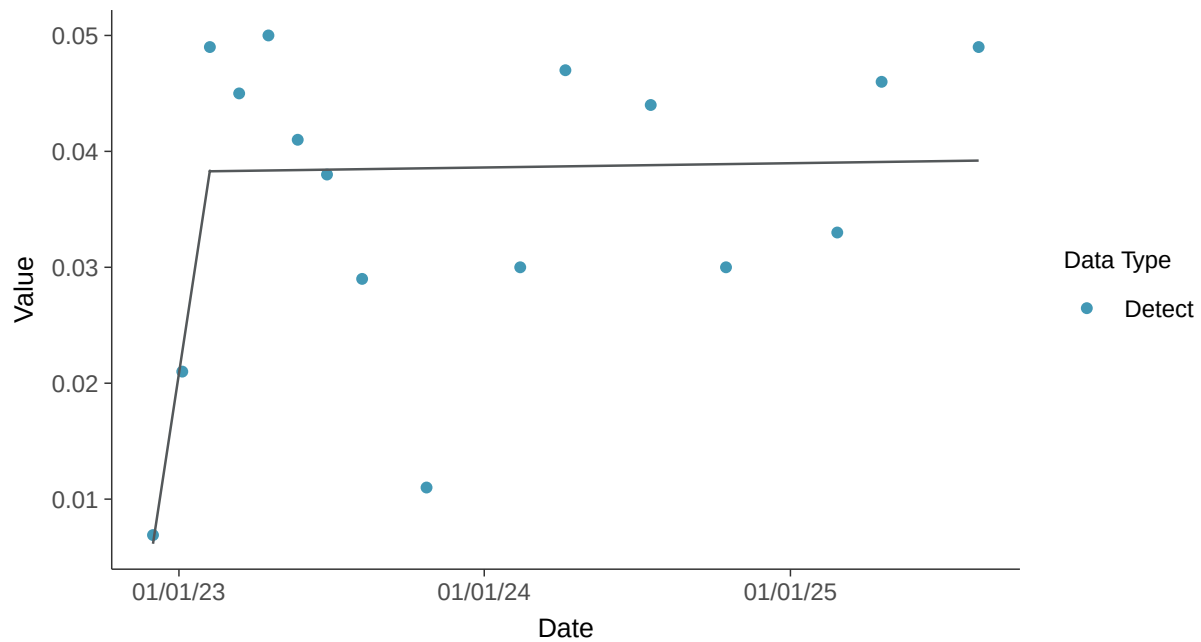
Trend Regression: Lognormal MLE

Arsenic, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear

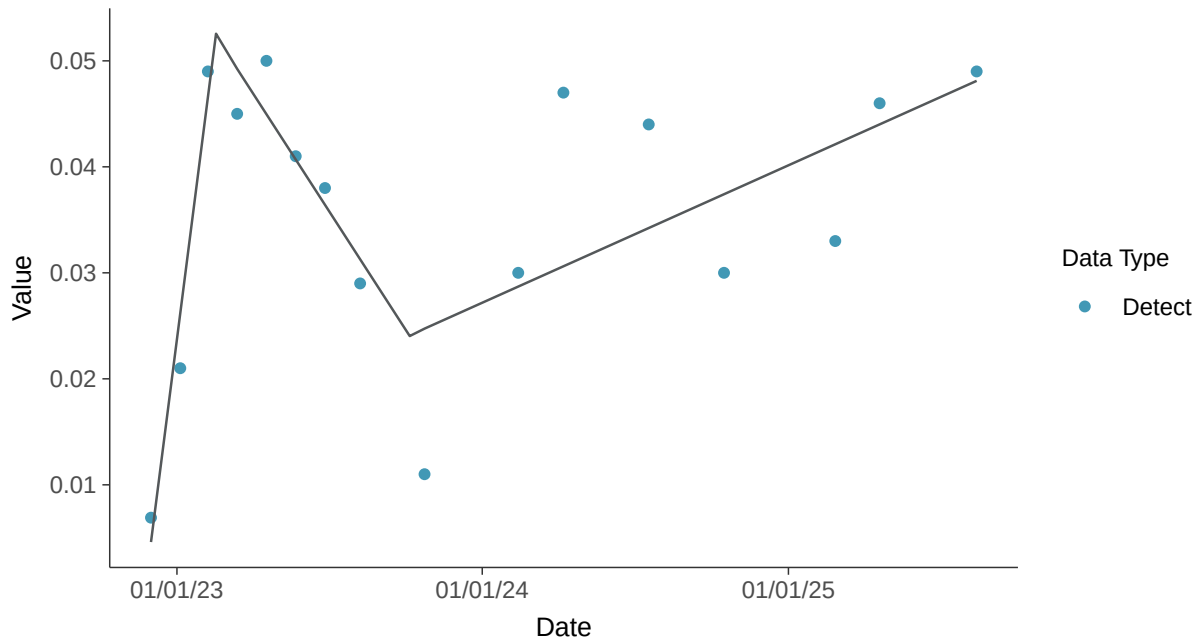
Arsenic, MW-08 (mg/L)





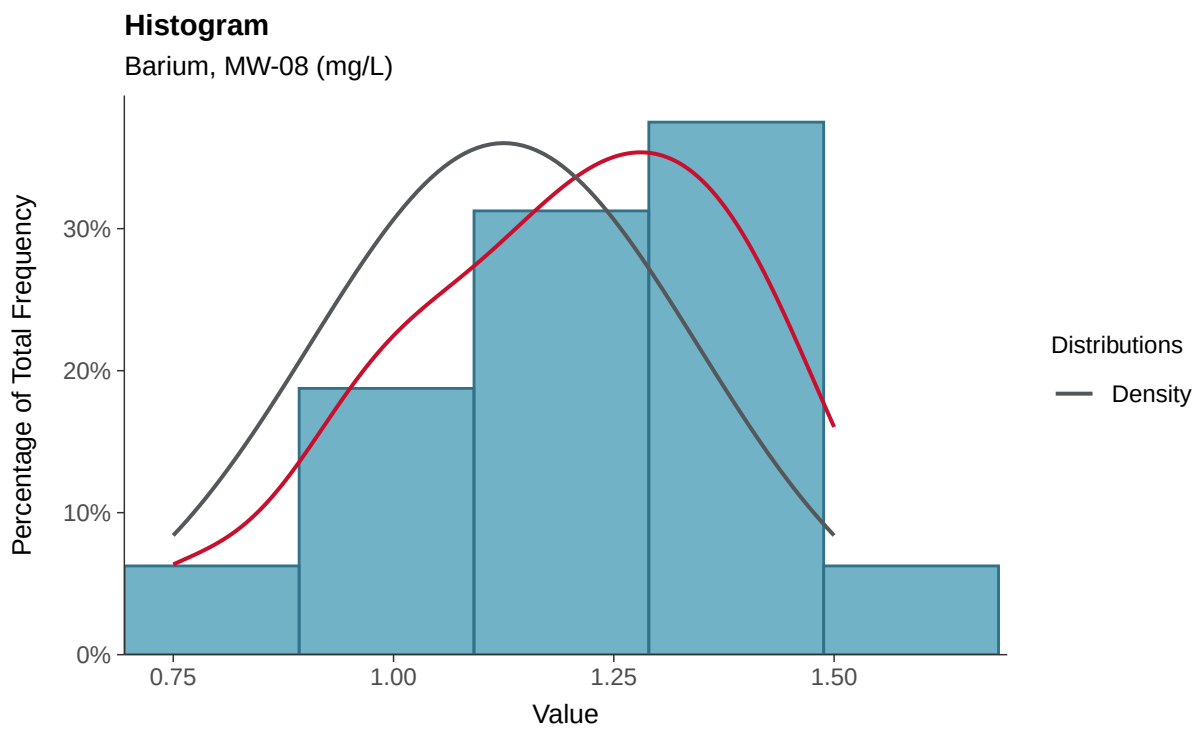
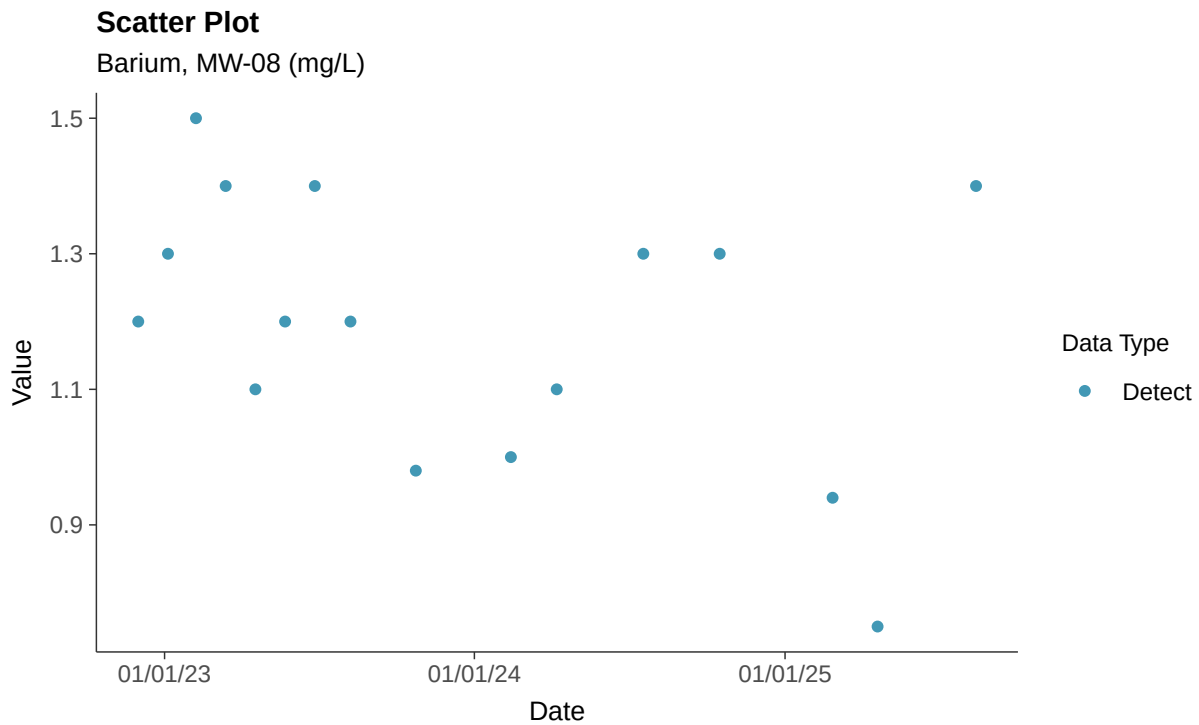
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-08 (mg/L)



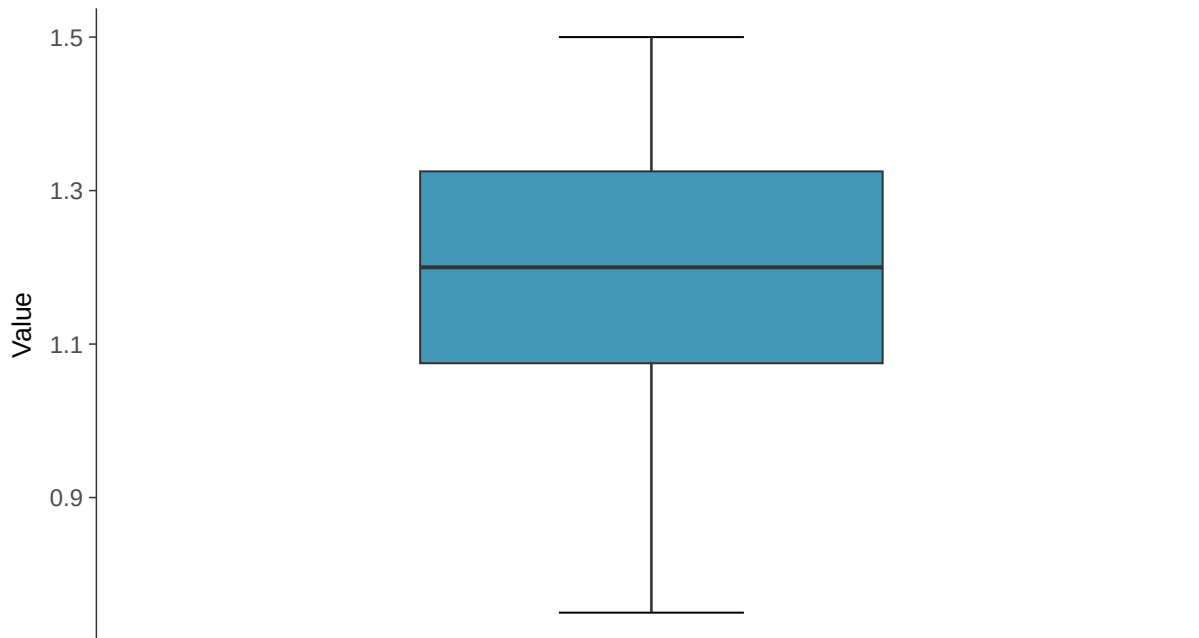
Appendix IV: Barium, MW-08

ID: 18_1_4_103



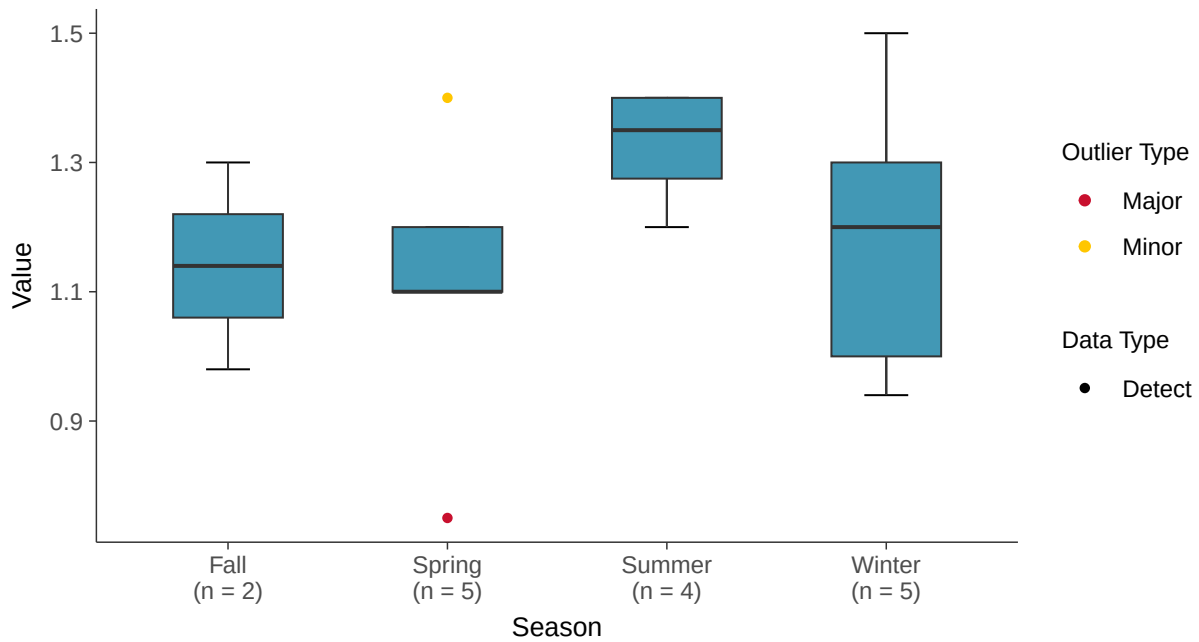
Boxplot

Barium, MW-08 (mg/L)

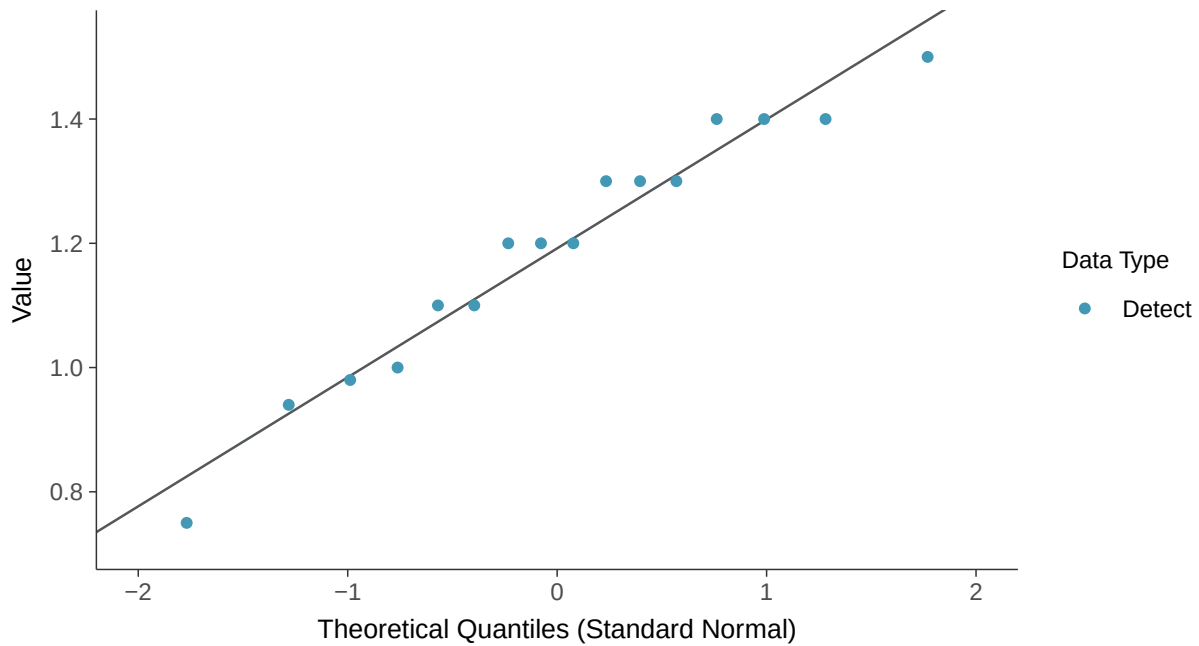


Boxplot by Season

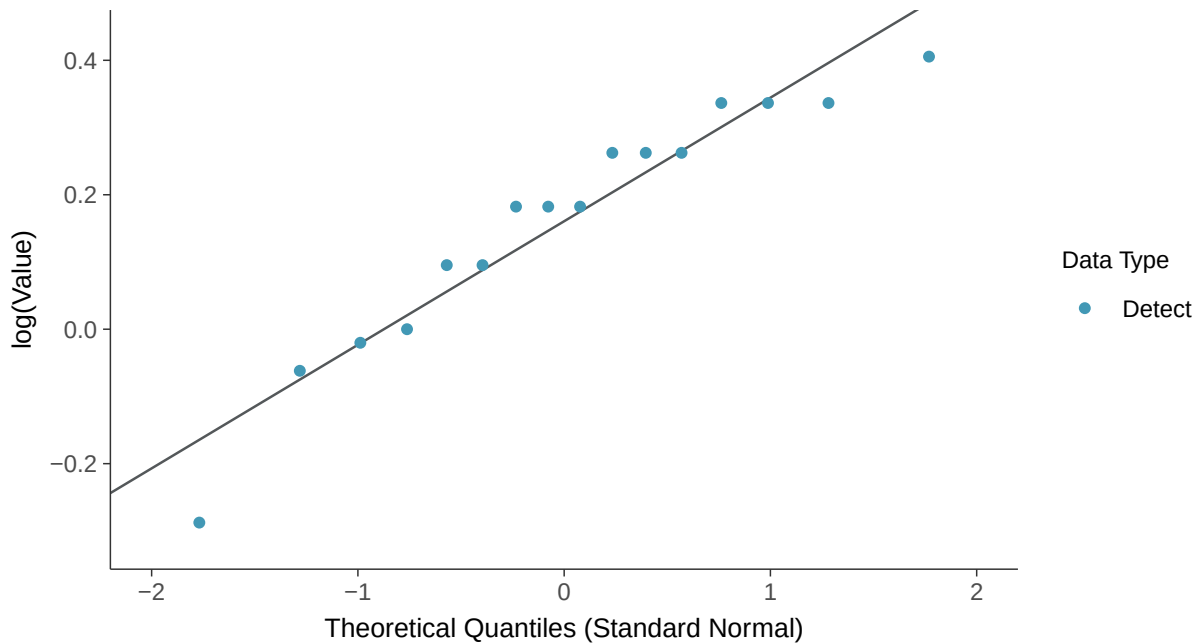
Barium, MW-08 (mg/L)



Normal Q-Q plot
Barium, MW-08 (mg/L)

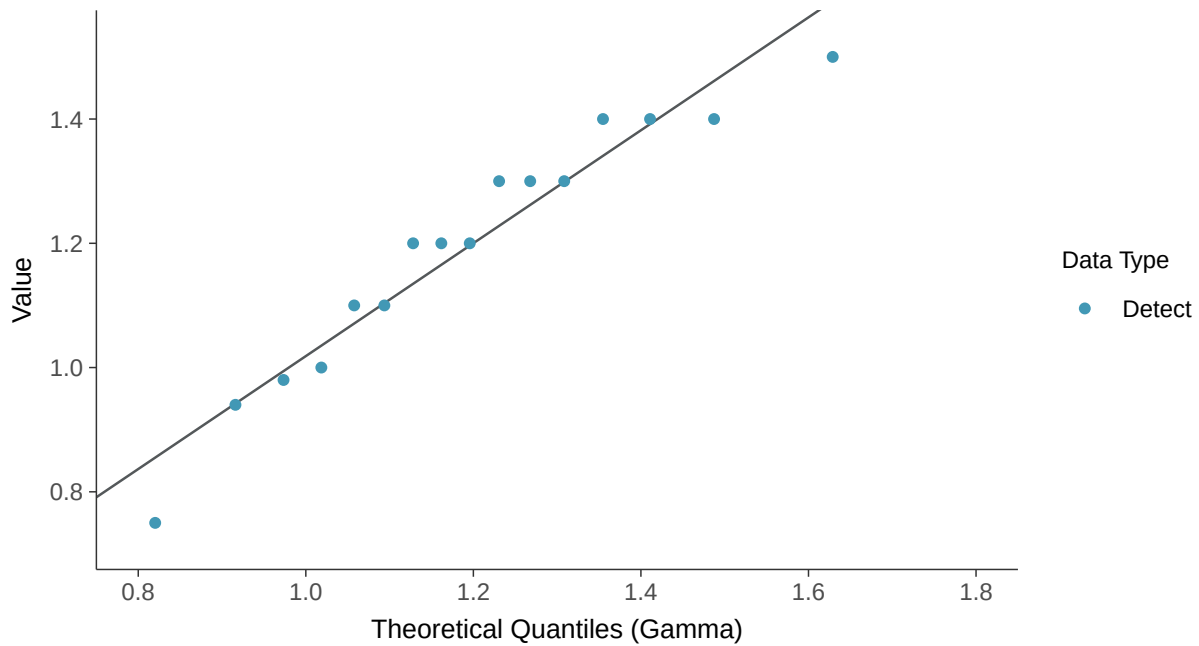


Lognormal Q-Q plot
Barium, MW-08 (mg/L)



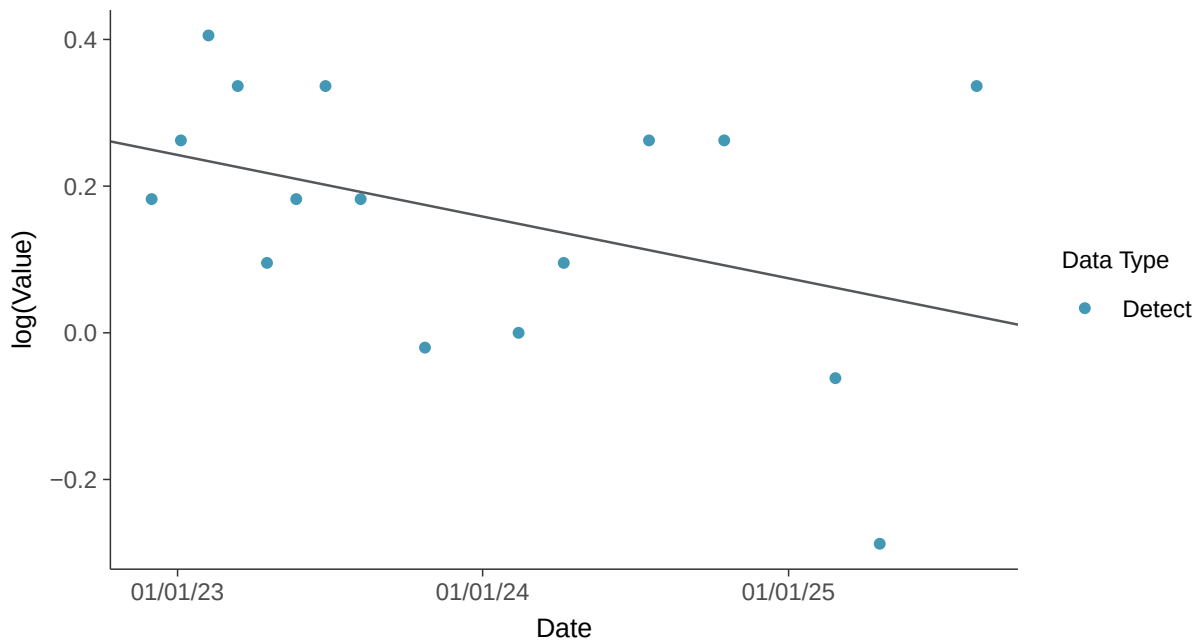
Gamma Q-Q plot

Barium, MW-08 (mg/L)



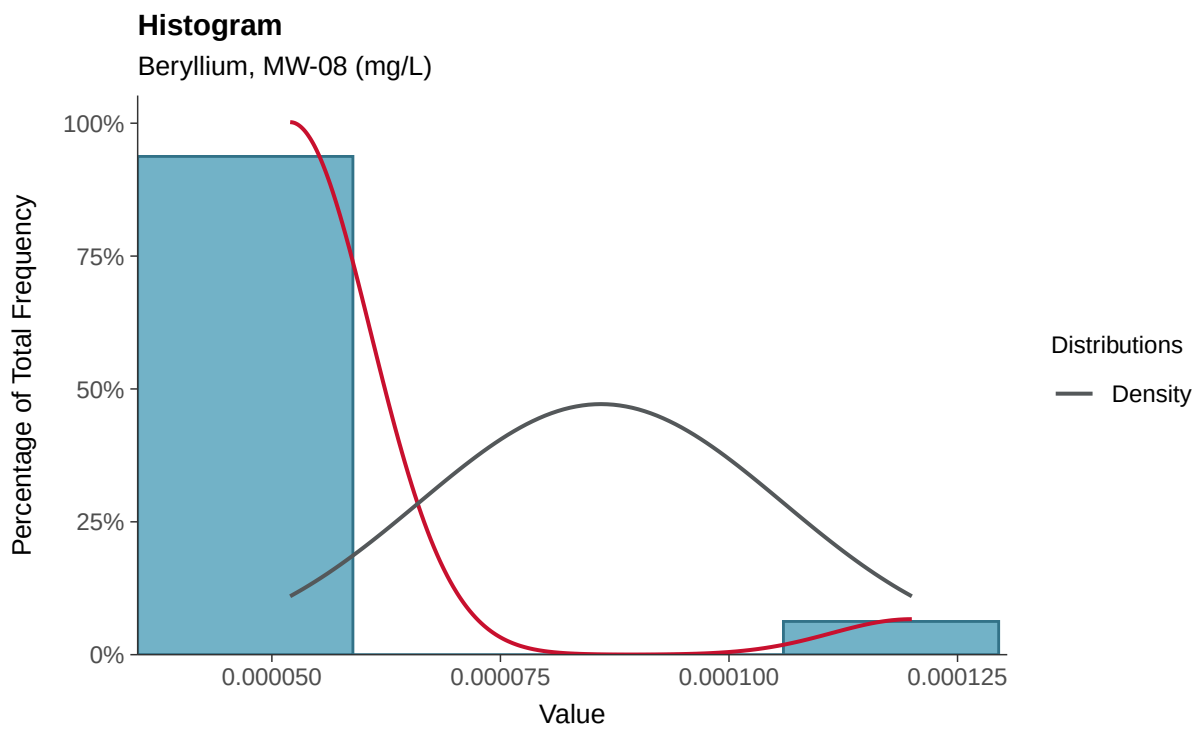
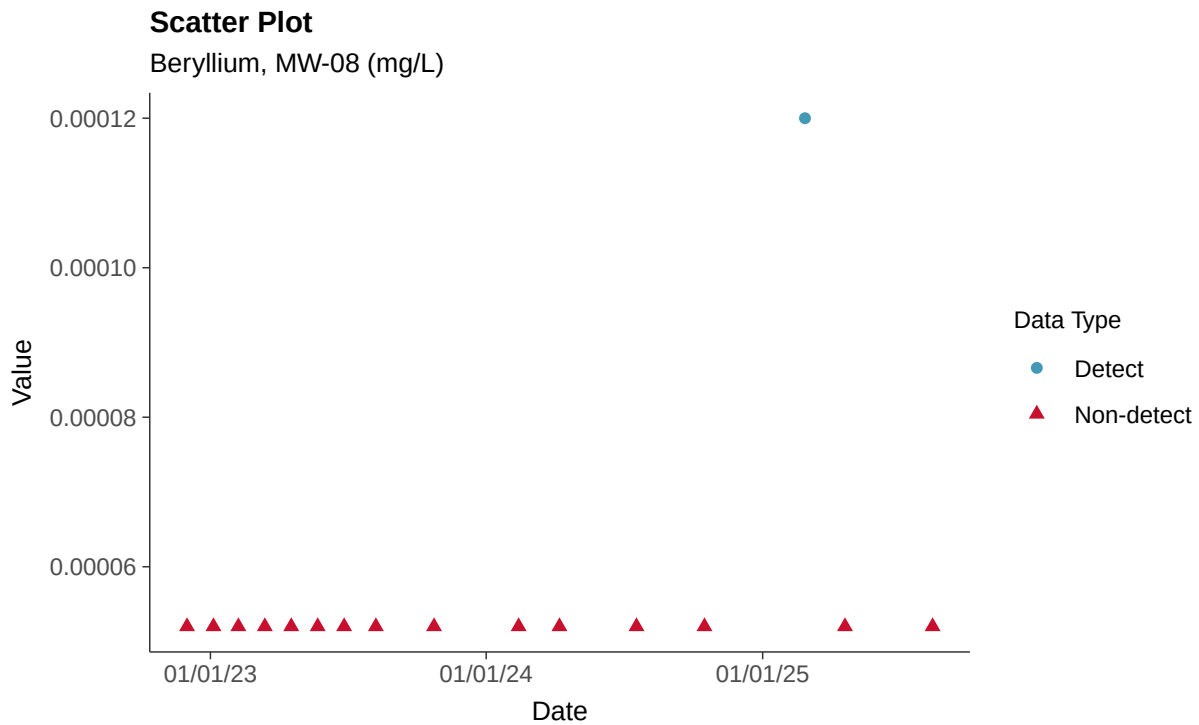
Trend Regression: Lognormal MLE

Barium, MW-08 (mg/L)



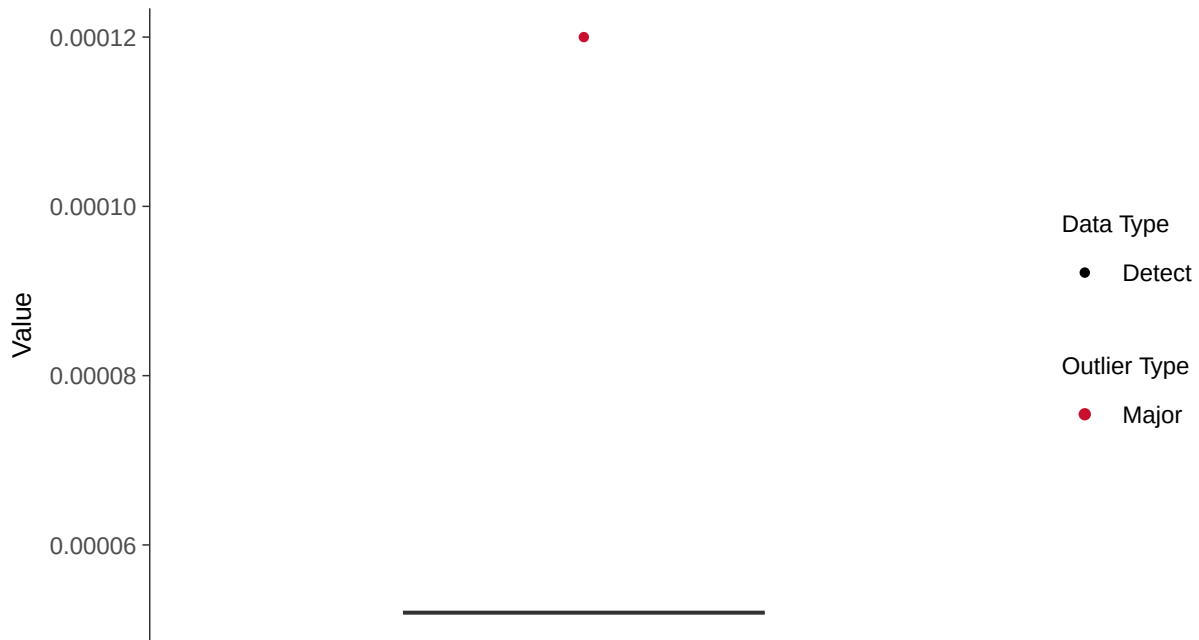
Appendix IV: Beryllium, MW-08

ID: 18_1_4_104



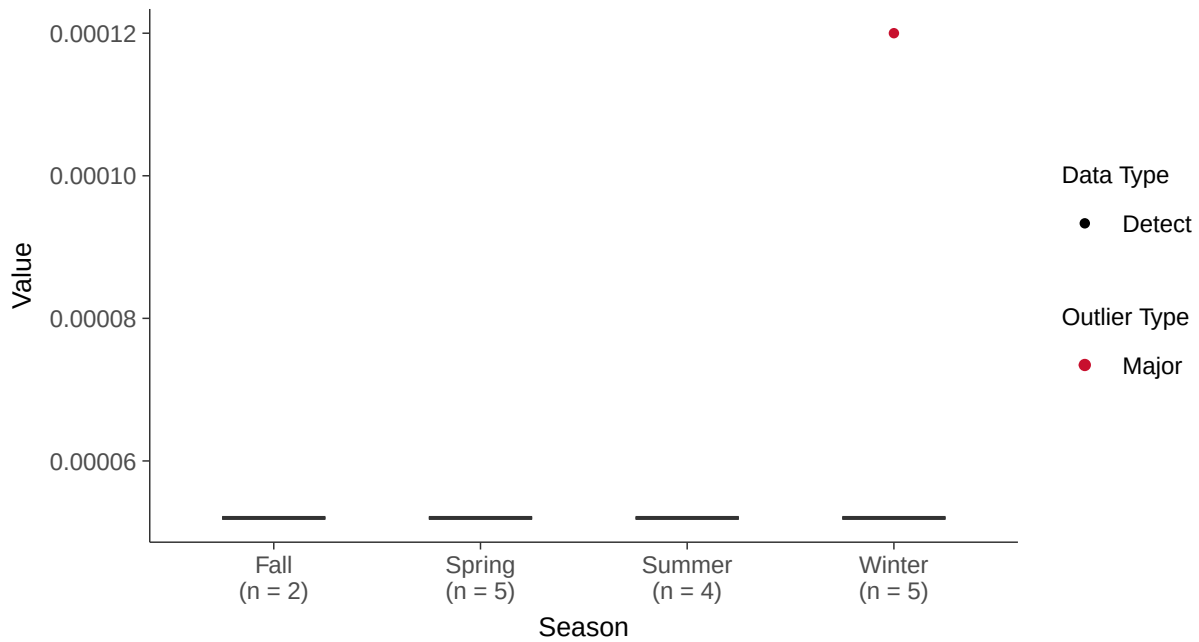
Boxplot

Beryllium, MW-08 (mg/L)



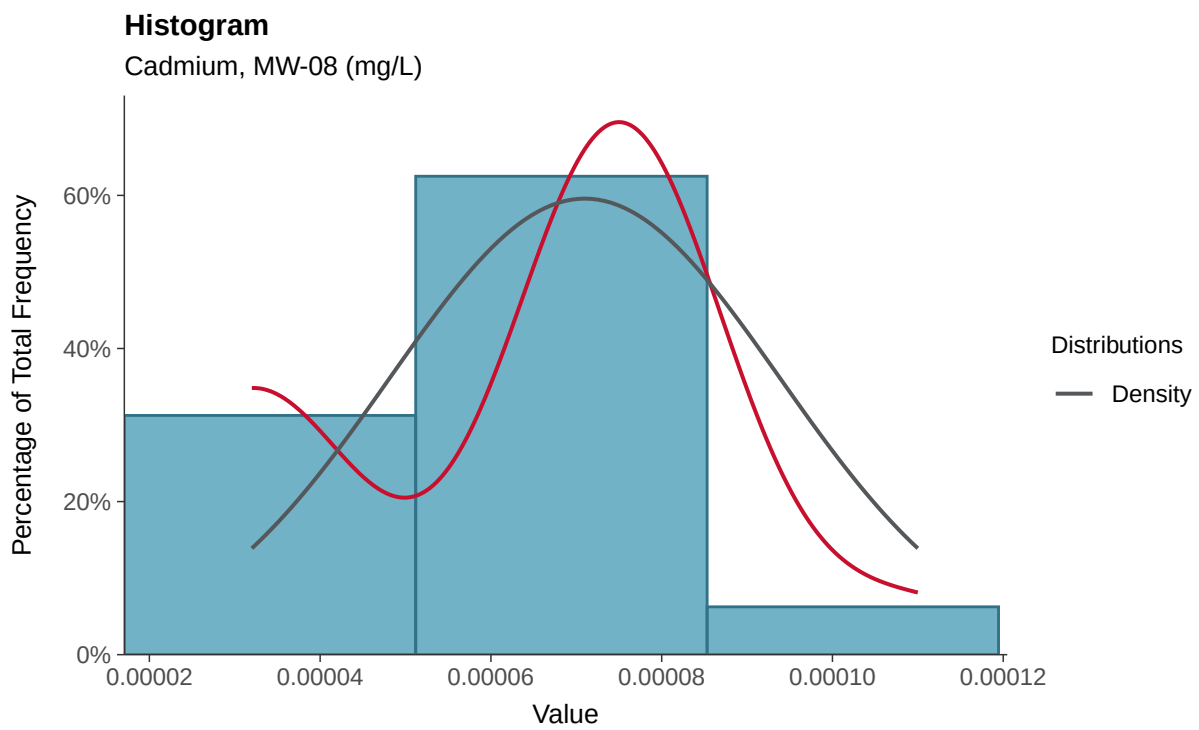
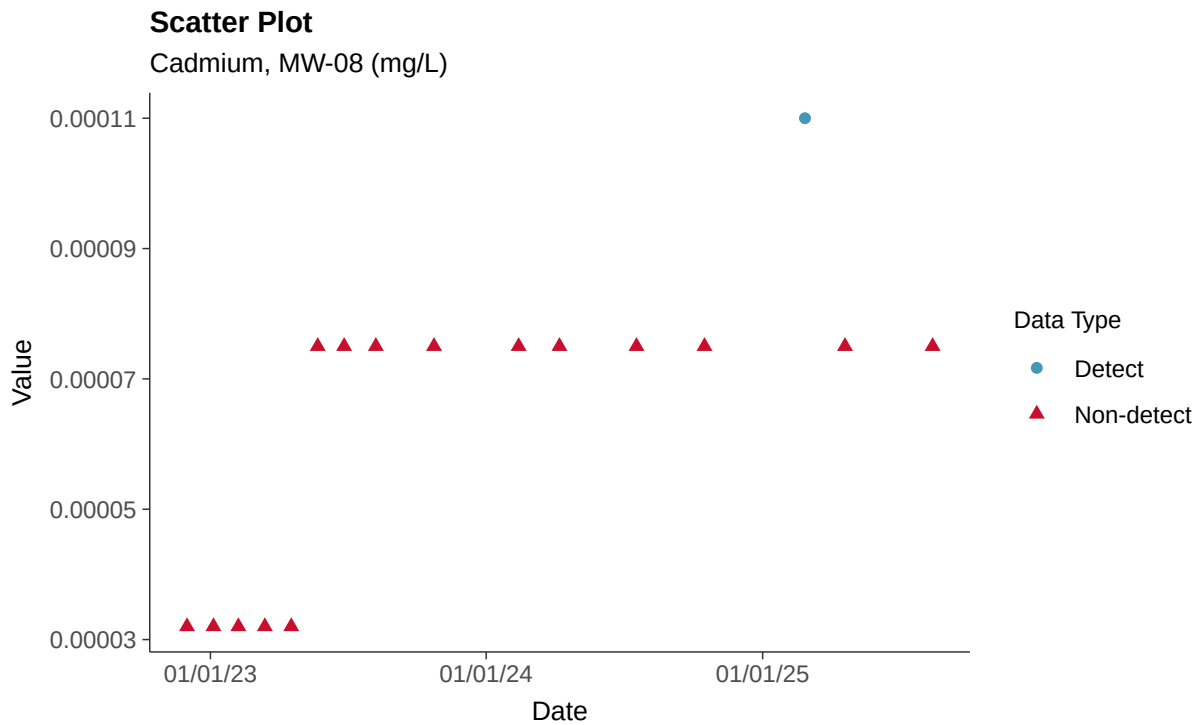
Boxplot by Season

Beryllium, MW-08 (mg/L)



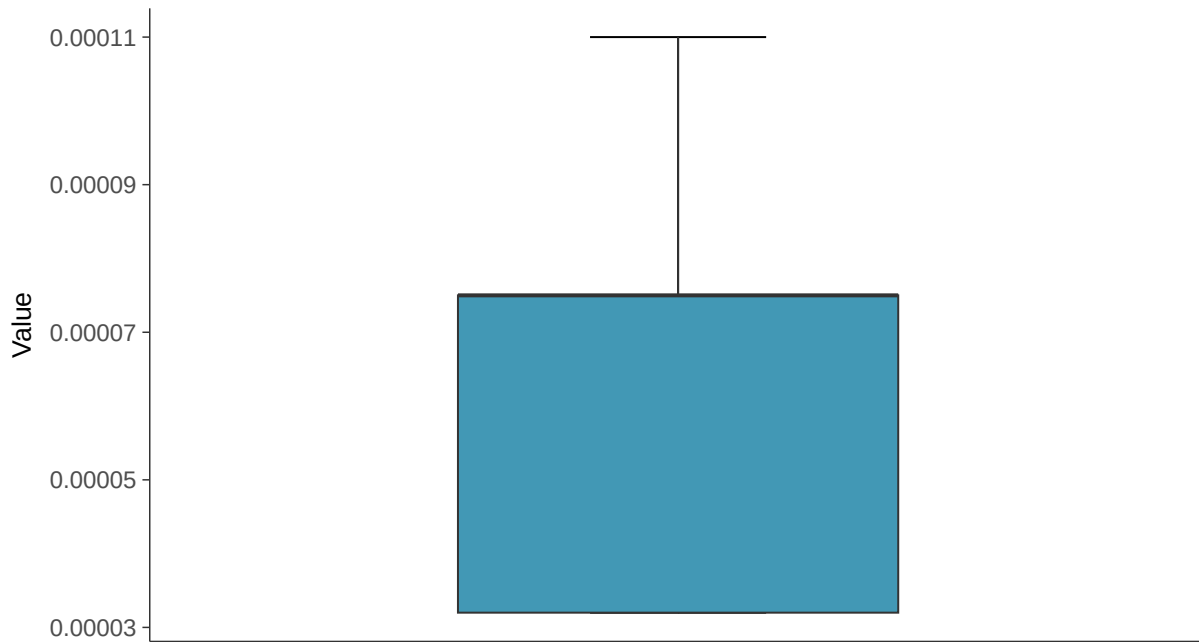
Appendix IV: Cadmium, MW-08

ID: 18_1_4_106



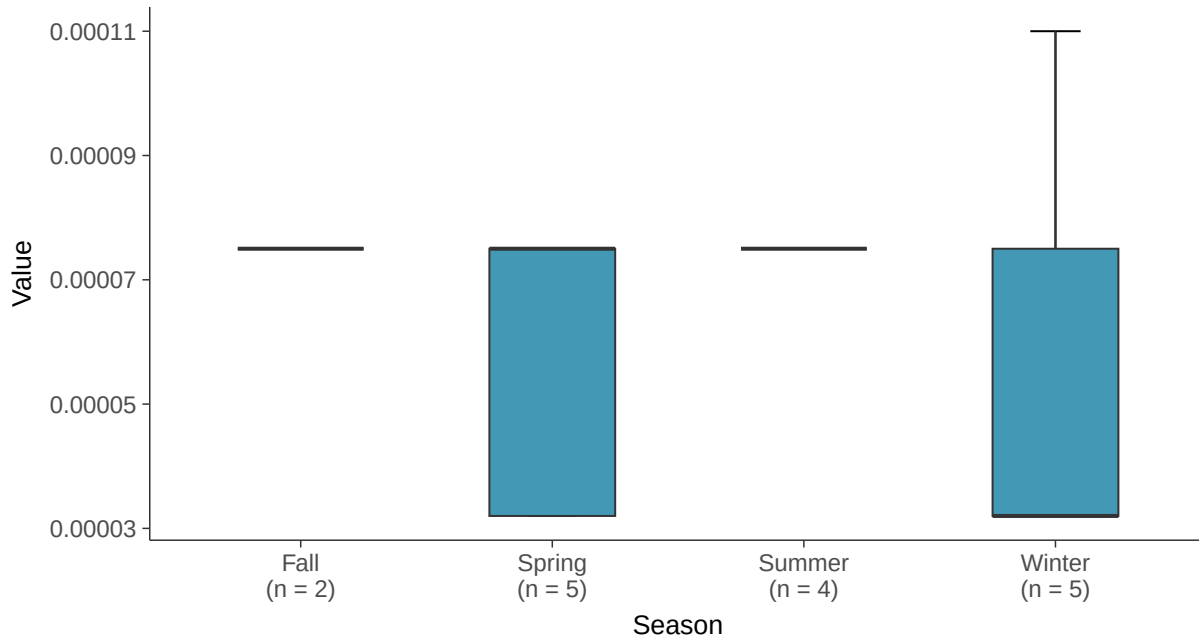
Boxplot

Cadmium, MW-08 (mg/L)



Boxplot by Season

Cadmium, MW-08 (mg/L)

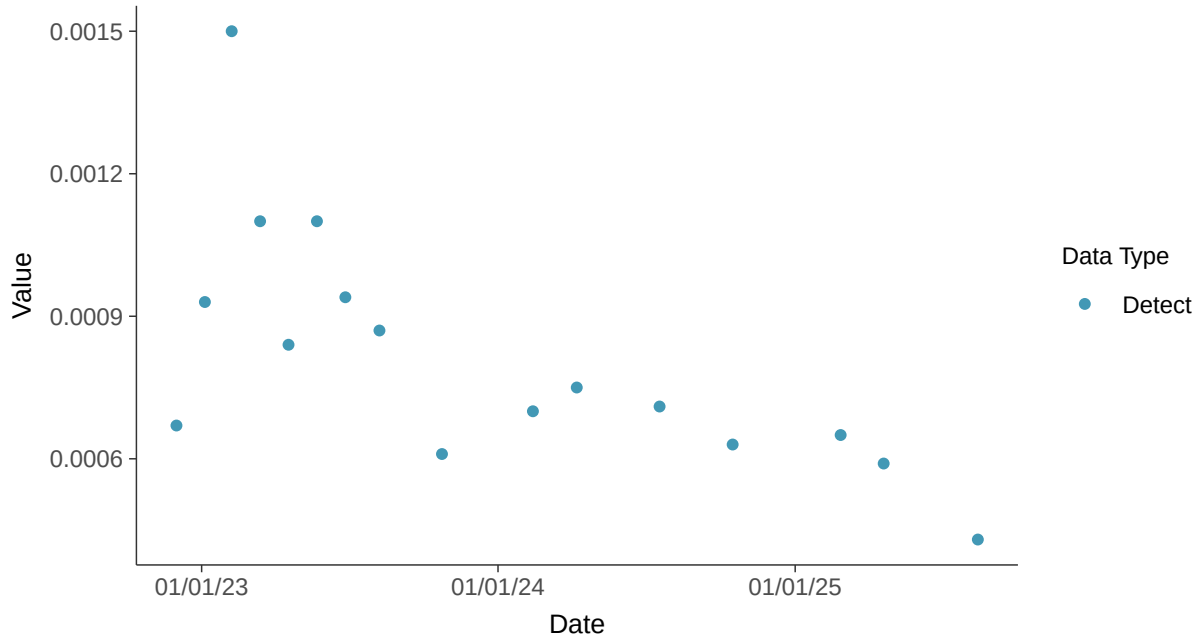


Appendix IV: Chromium, Total, MW-08

ID: 18_1_4_109

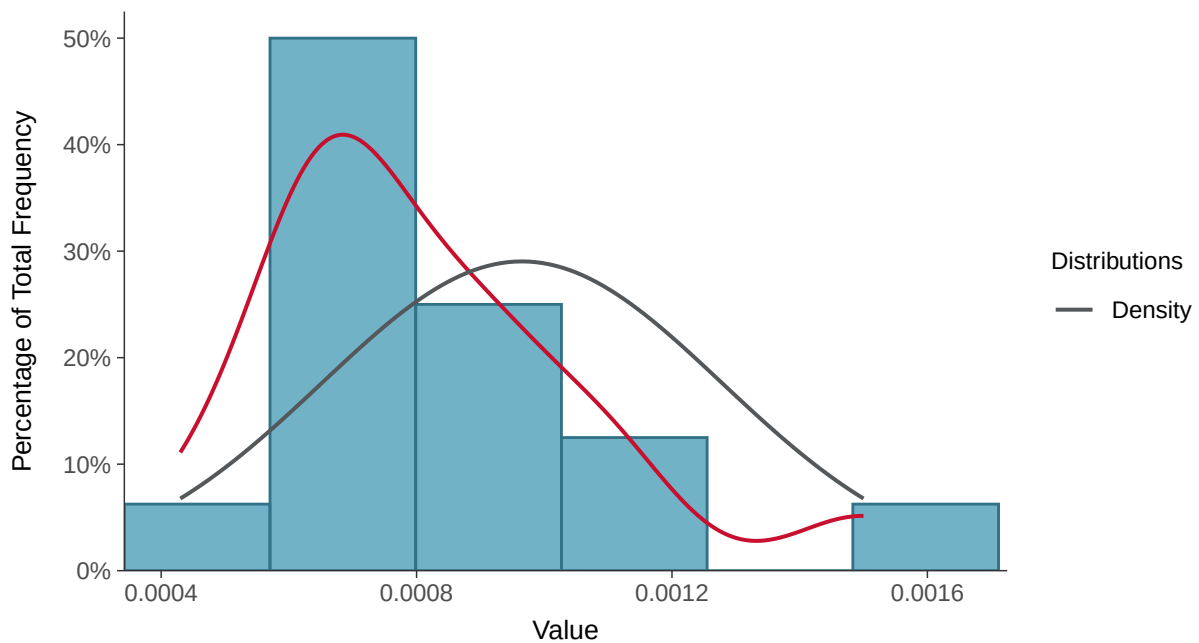
Scatter Plot

Chromium, Total, MW-08 (mg/L)



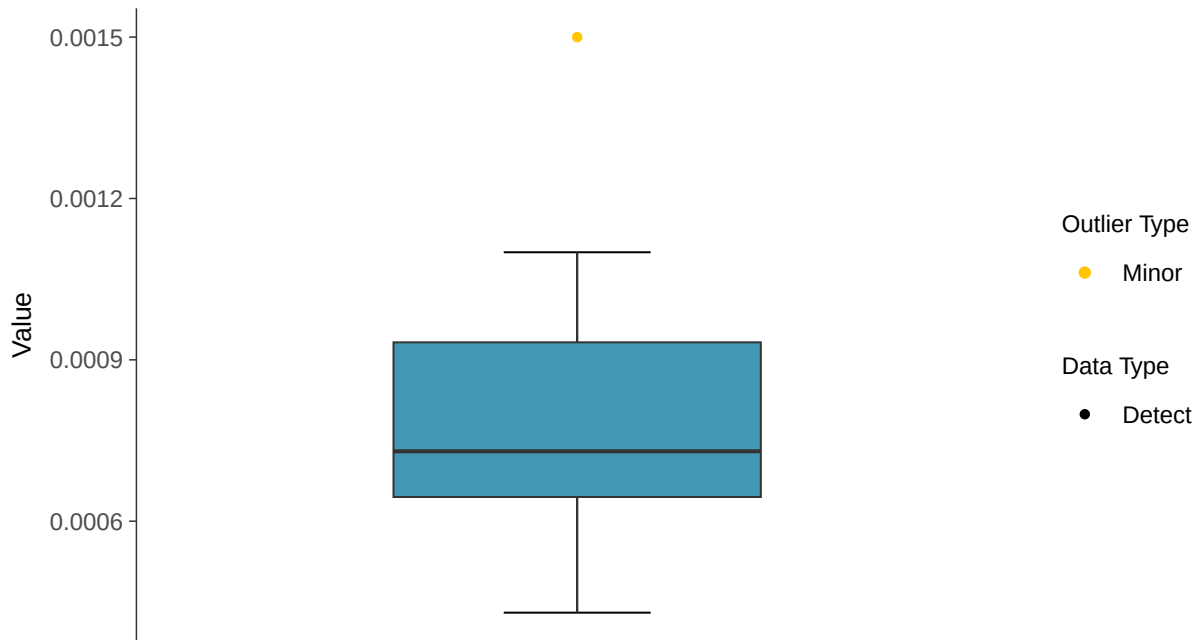
Histogram

Chromium, Total, MW-08 (mg/L)



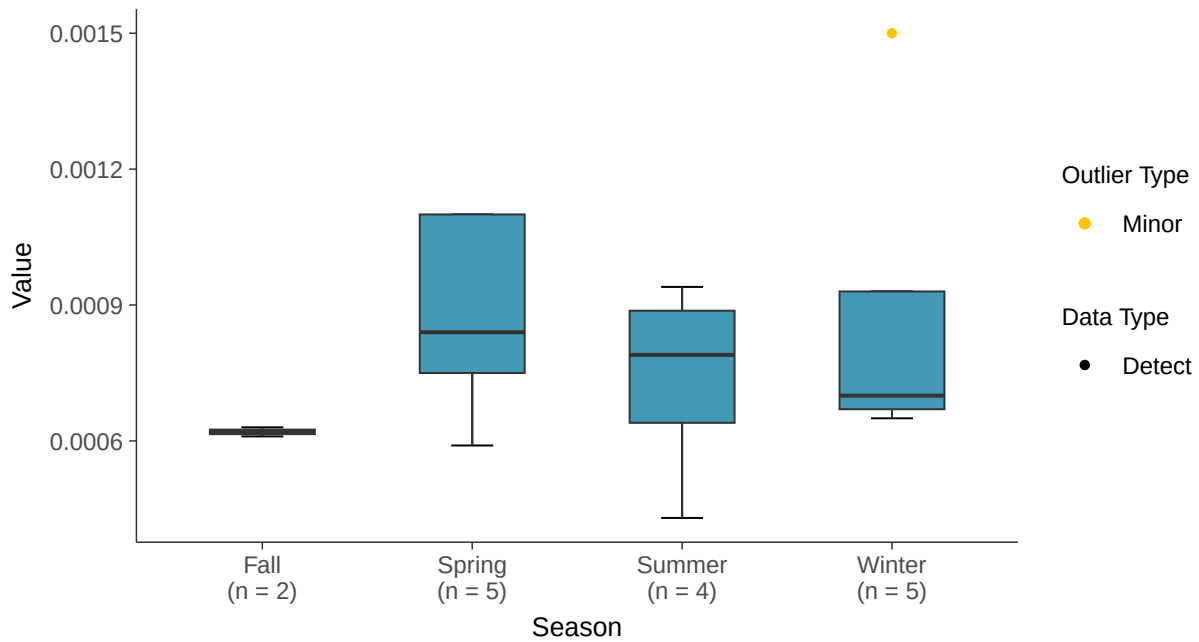
Boxplot

Chromium, Total, MW-08 (mg/L)



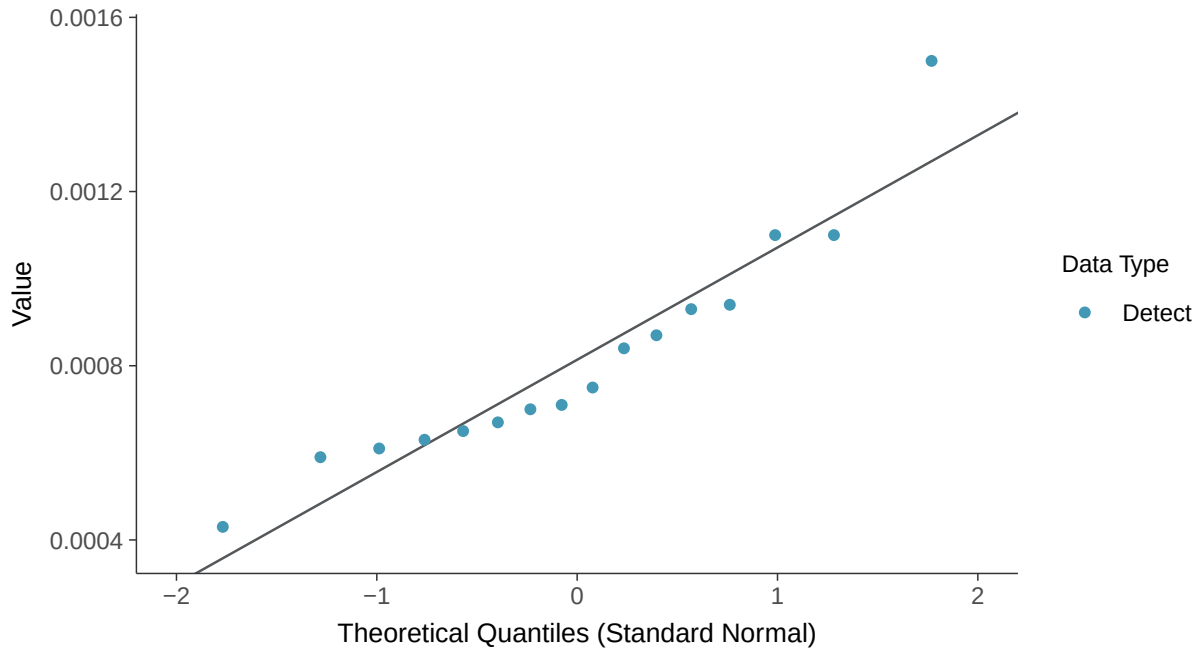
Boxplot by Season

Chromium, Total, MW-08 (mg/L)



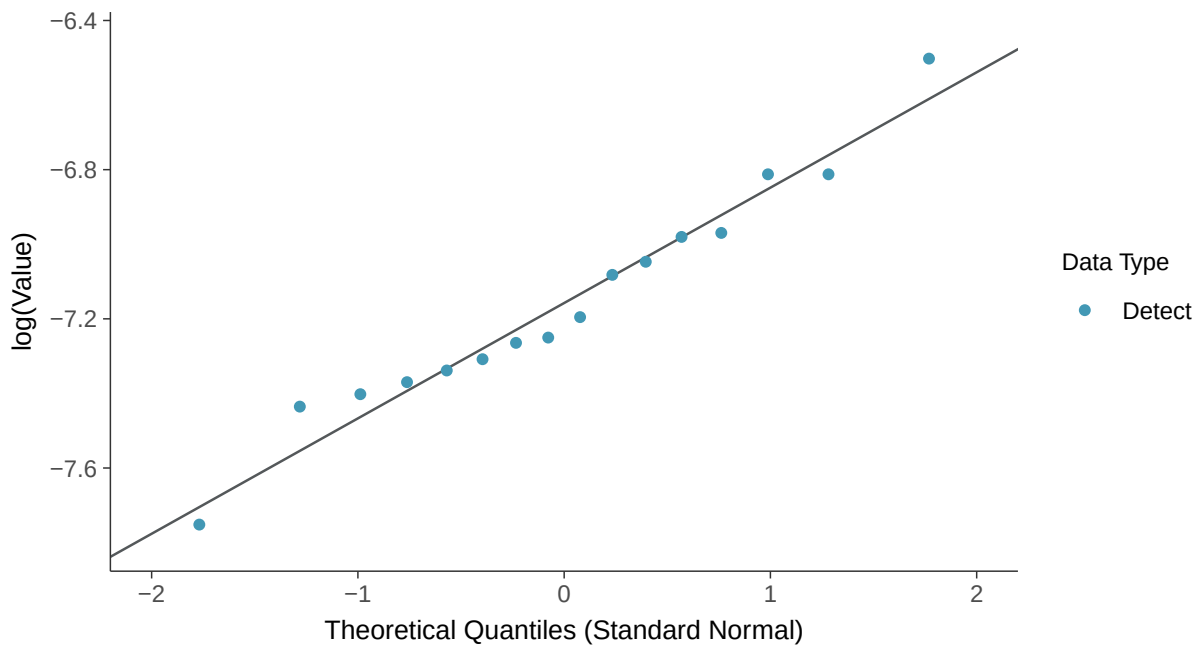
Normal Q-Q plot

Chromium, Total, MW-08 (mg/L)



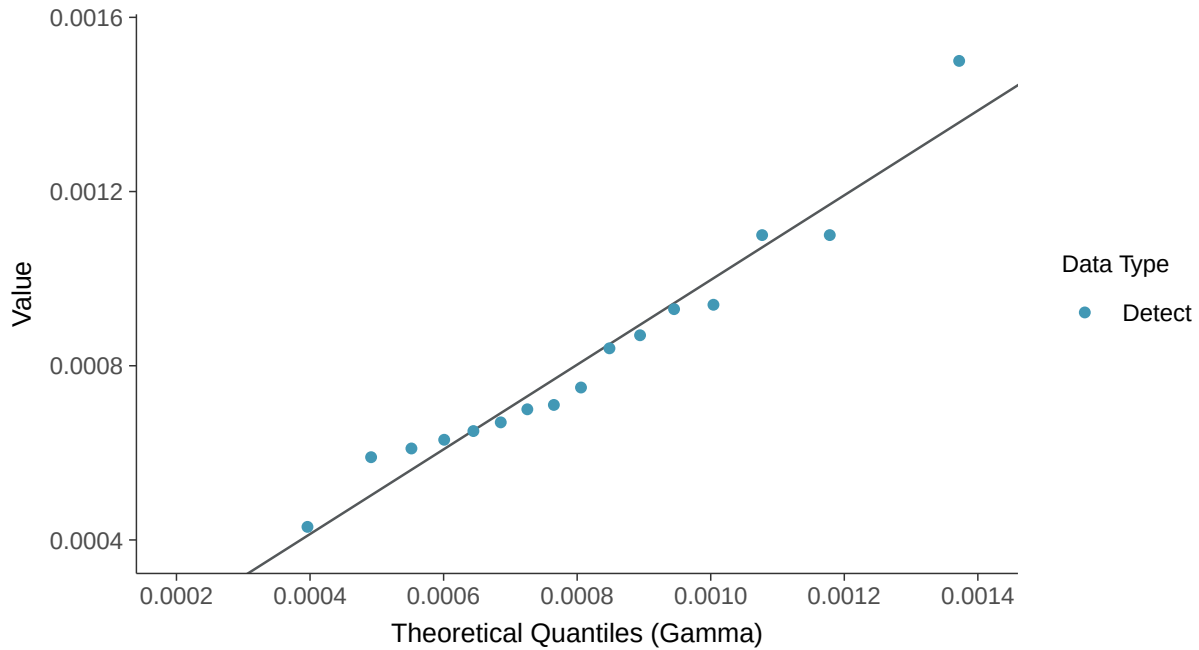
Lognormal Q-Q plot

Chromium, Total, MW-08 (mg/L)



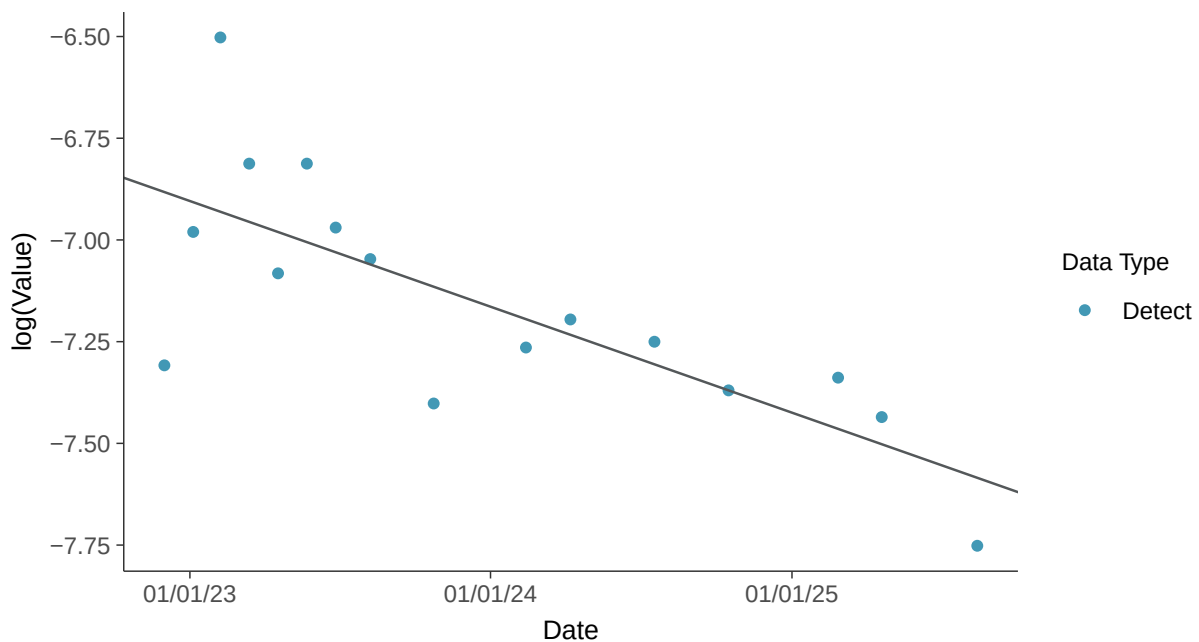
Gamma Q-Q plot

Chromium, Total, MW-08 (mg/L)



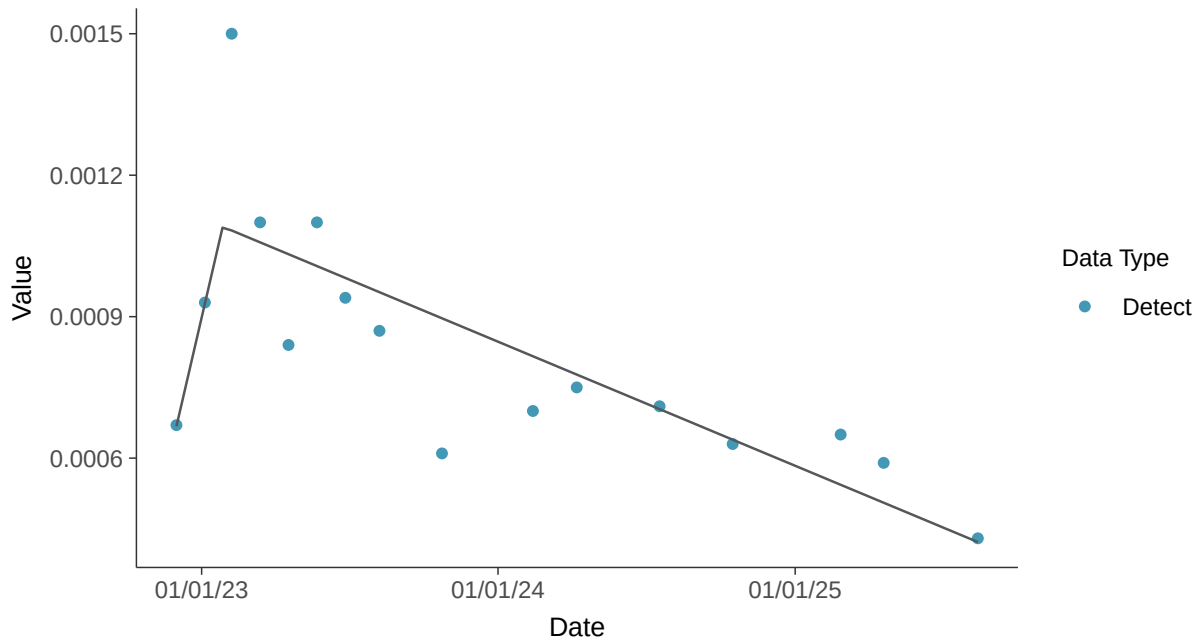
Trend Regression: Lognormal MLE

Chromium, Total, MW-08 (mg/L)



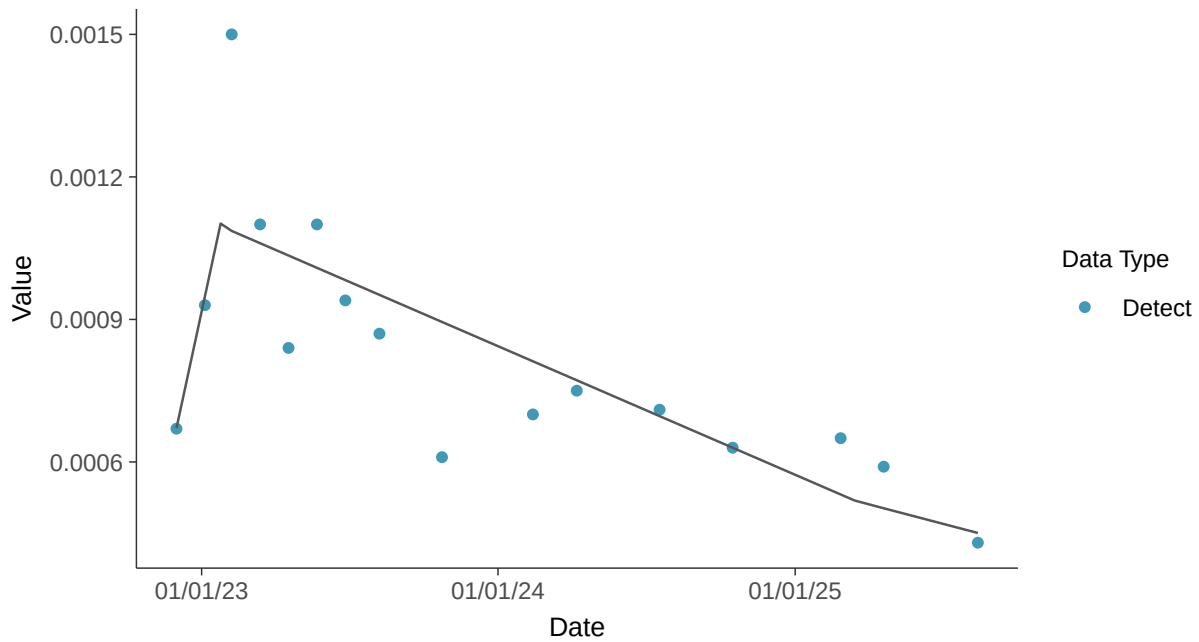
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-08 (mg/L)



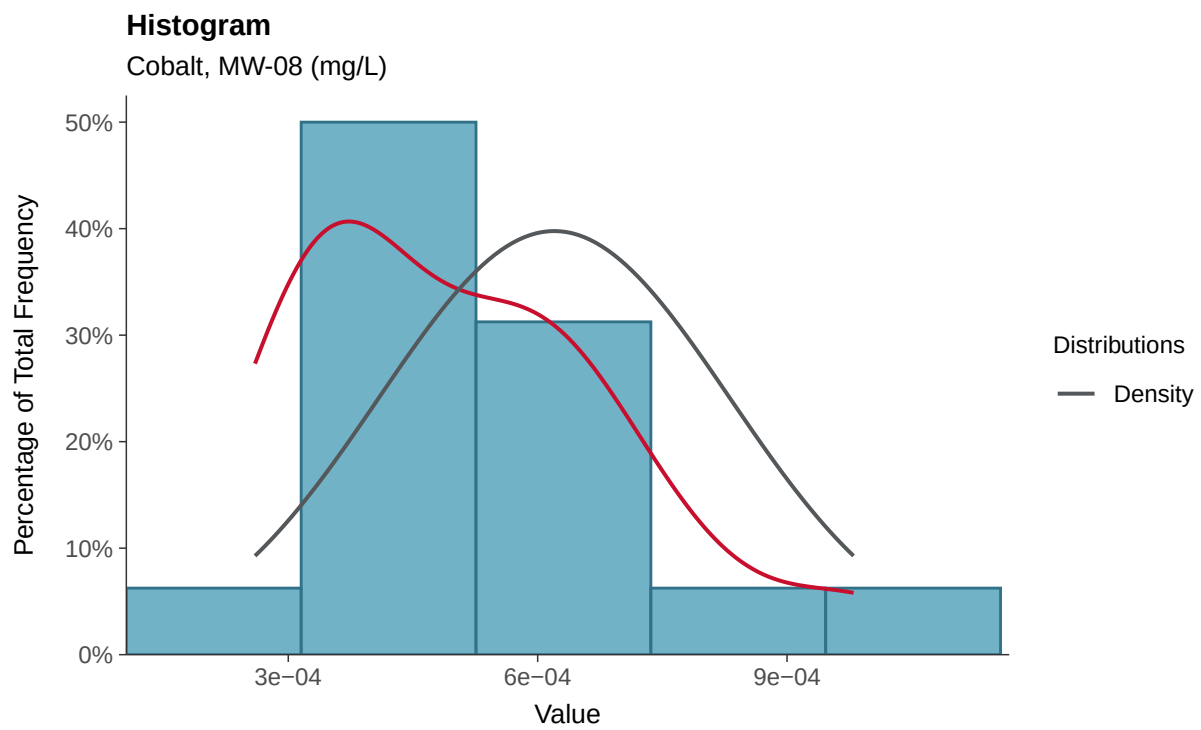
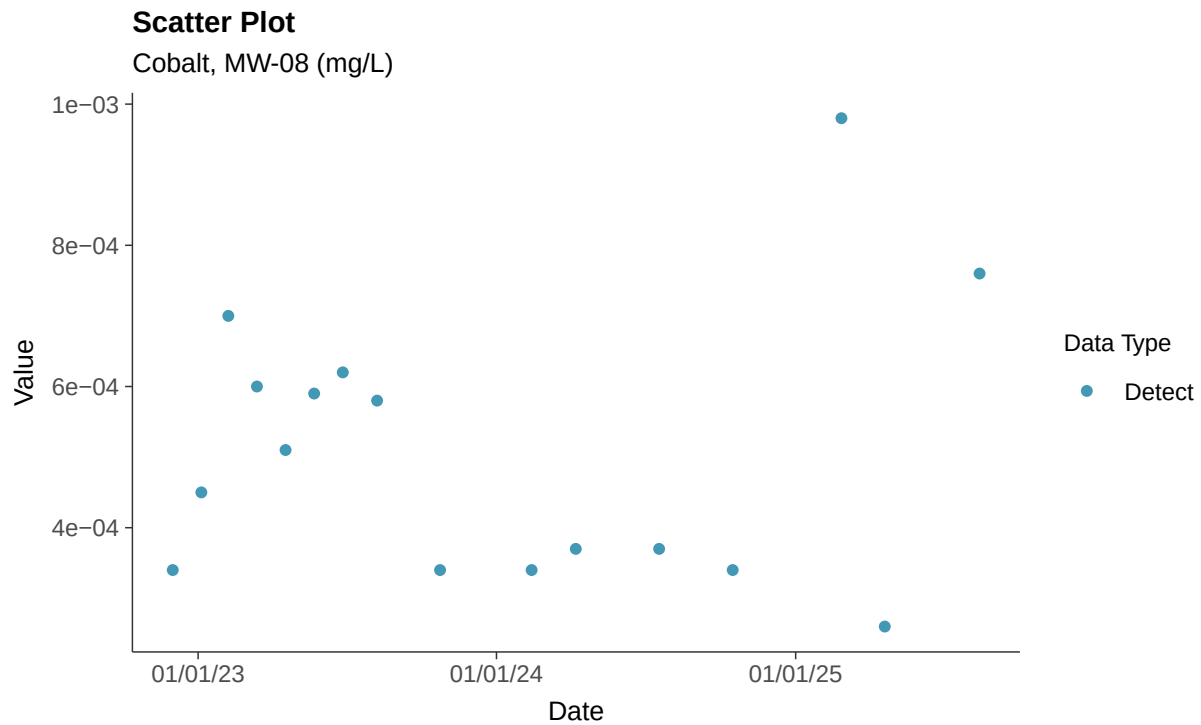
Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-08 (mg/L)



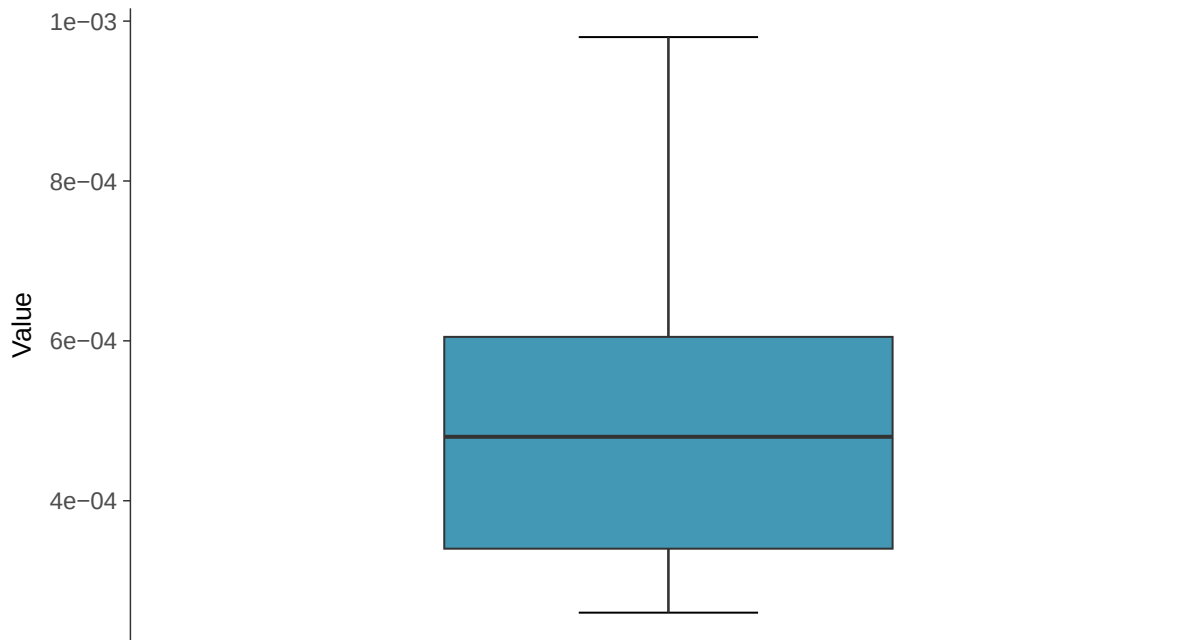
Appendix IV: Cobalt, MW-08

ID: 18_1_4_110



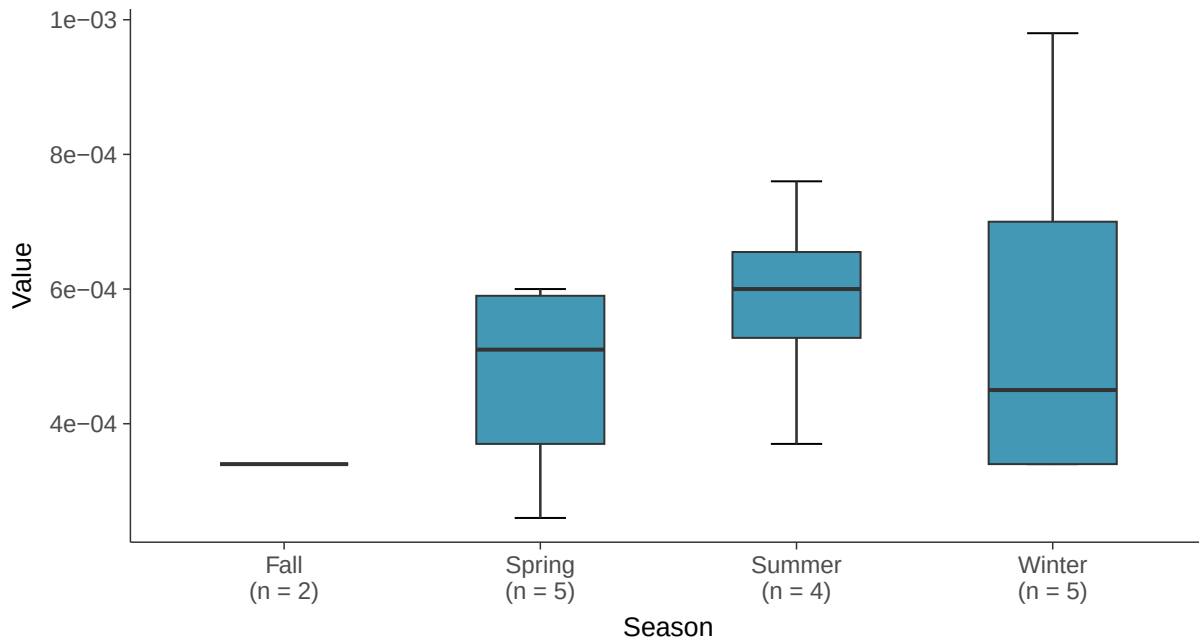
Boxplot

Cobalt, MW-08 (mg/L)



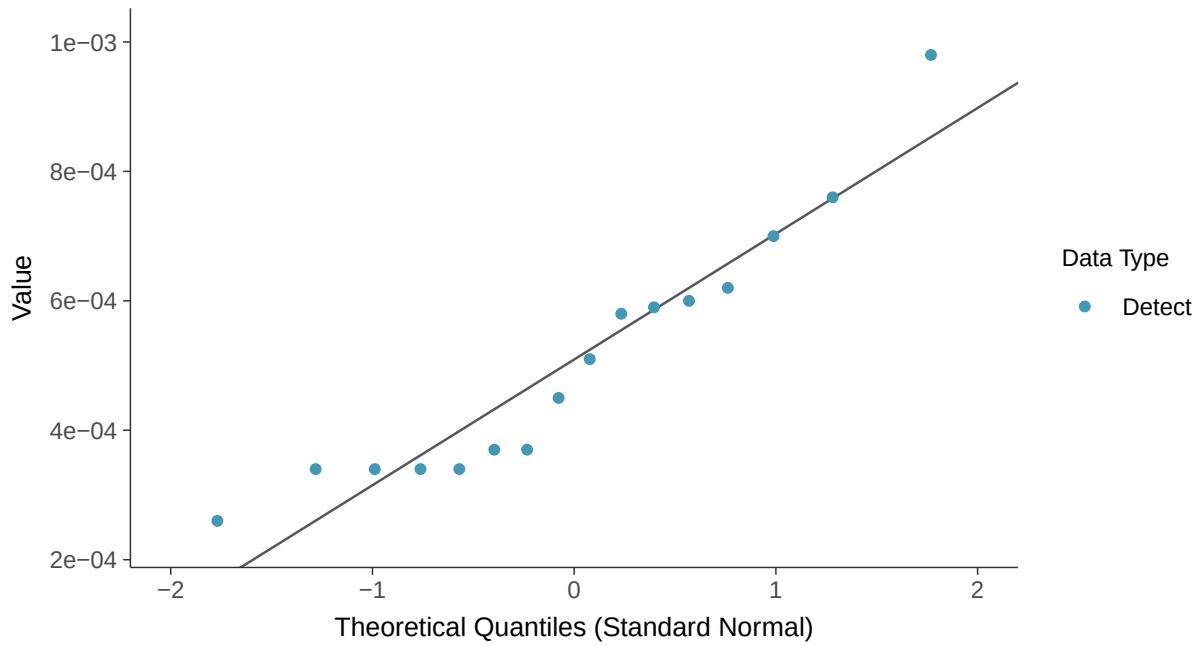
Boxplot by Season

Cobalt, MW-08 (mg/L)



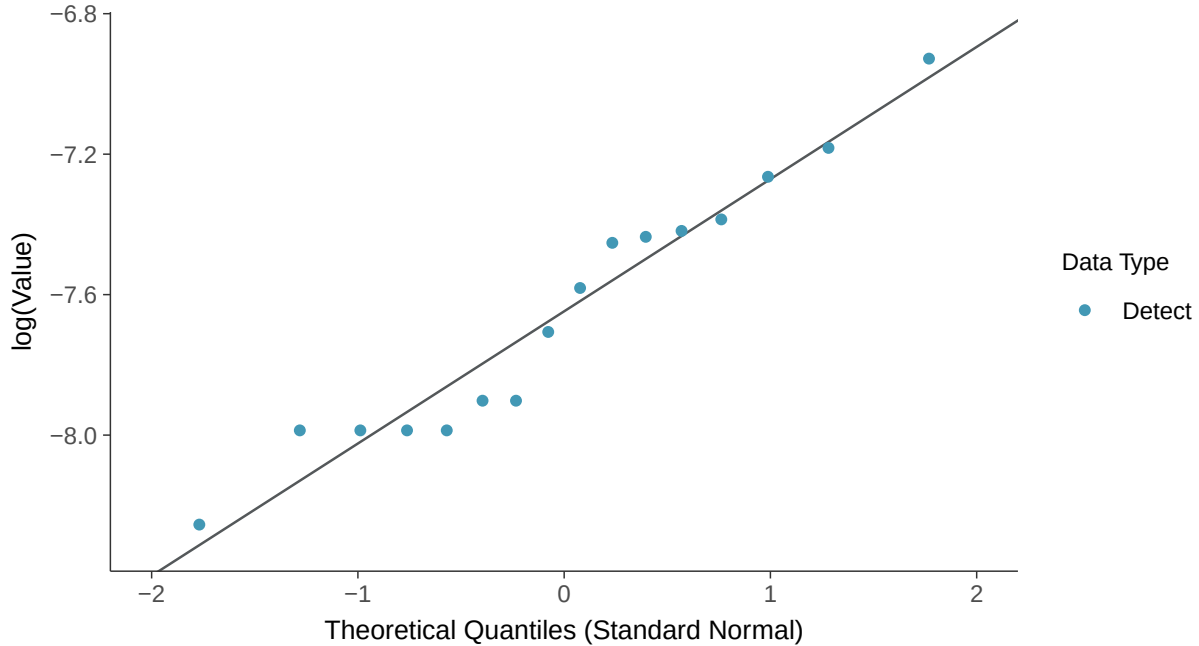
Normal Q-Q plot

Cobalt, MW-08 (mg/L)



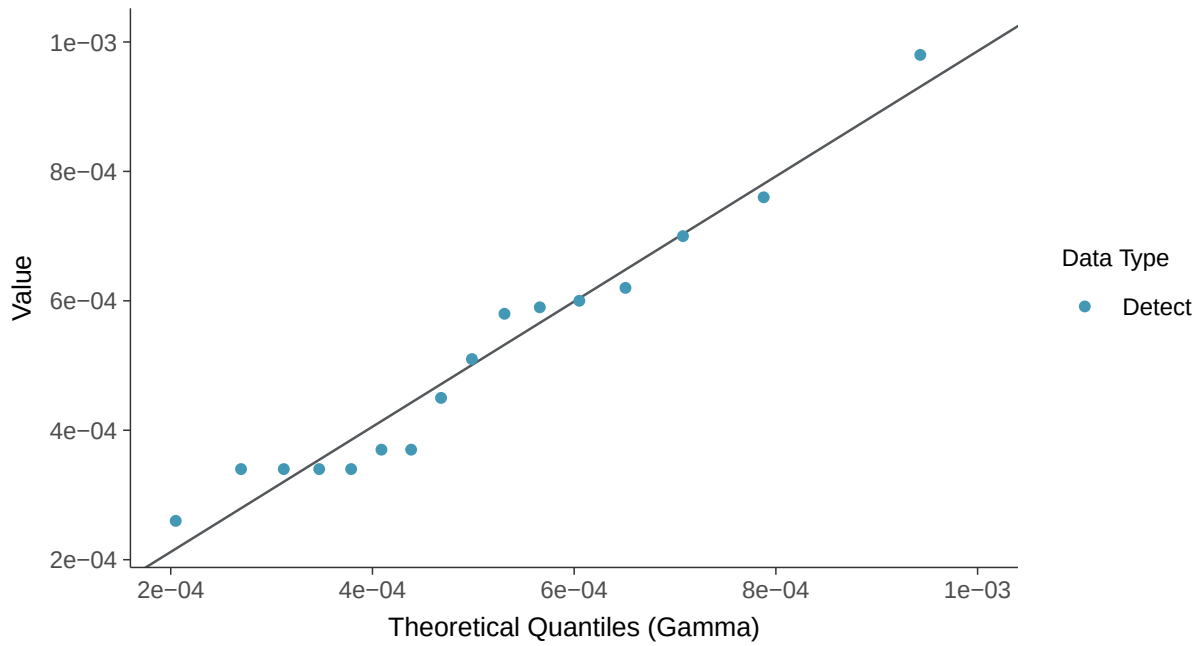
Lognormal Q-Q plot

Cobalt, MW-08 (mg/L)



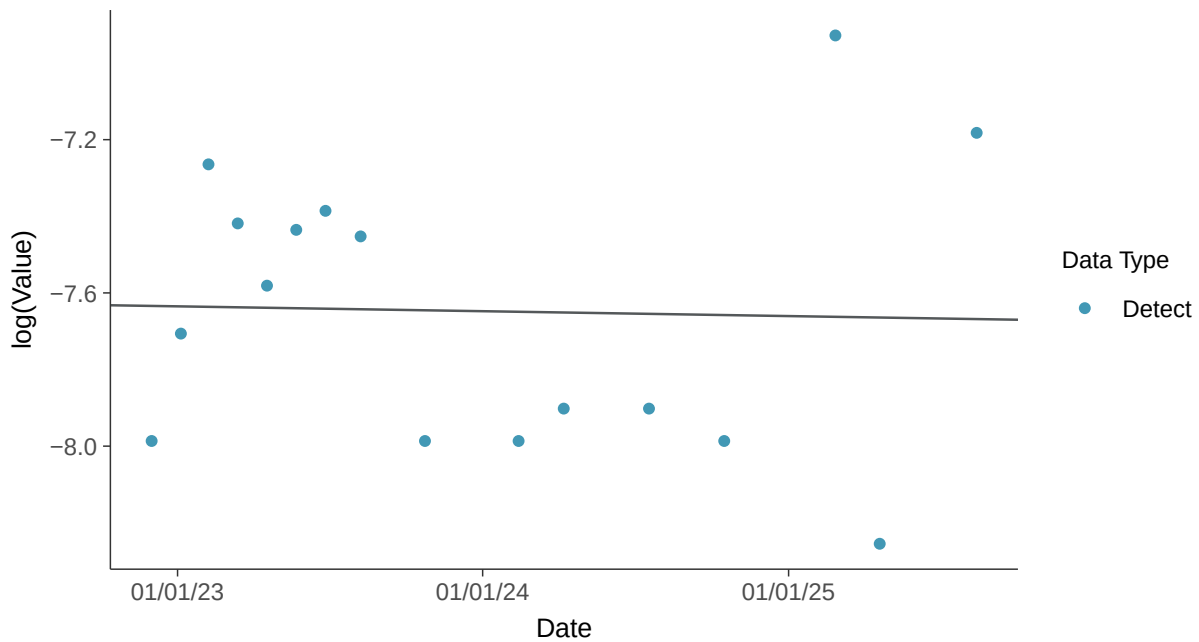
Gamma Q-Q plot

Cobalt, MW-08 (mg/L)



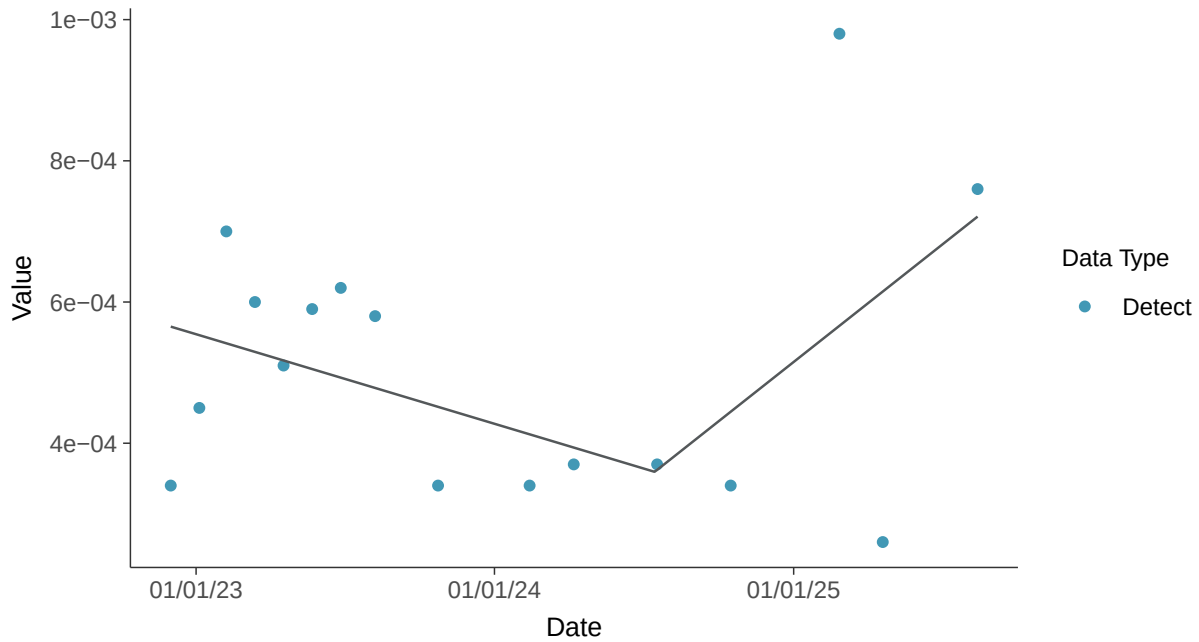
Trend Regression: Lognormal MLE

Cobalt, MW-08 (mg/L)



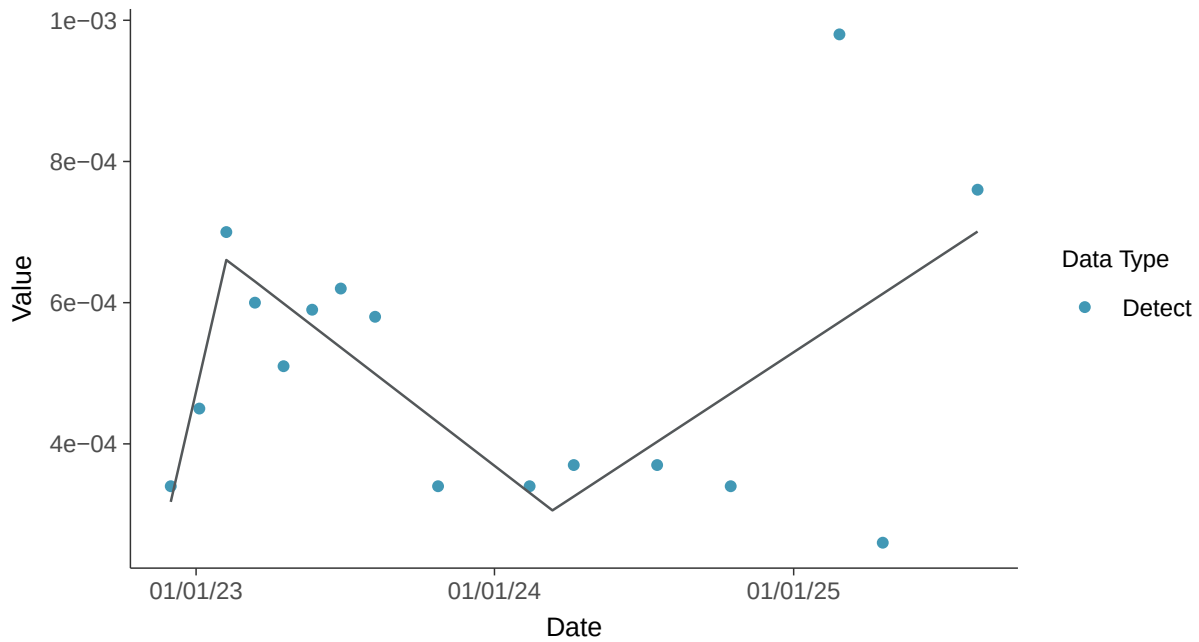
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-08 (mg/L)



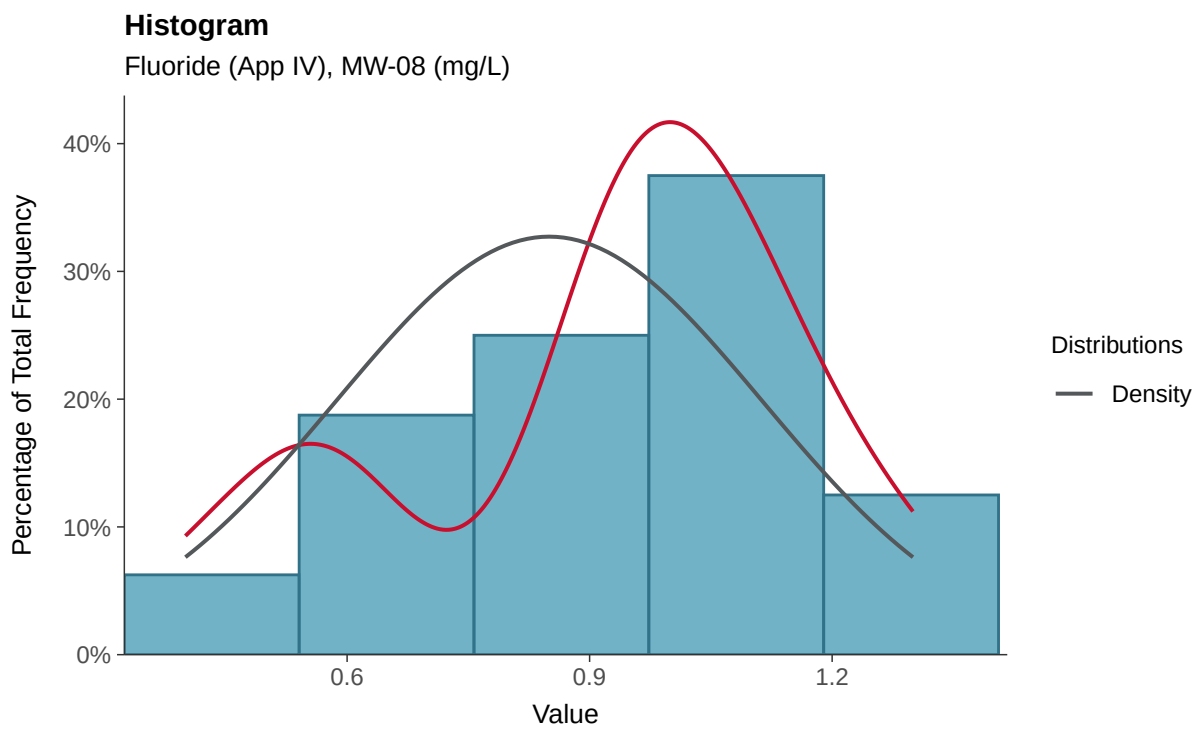
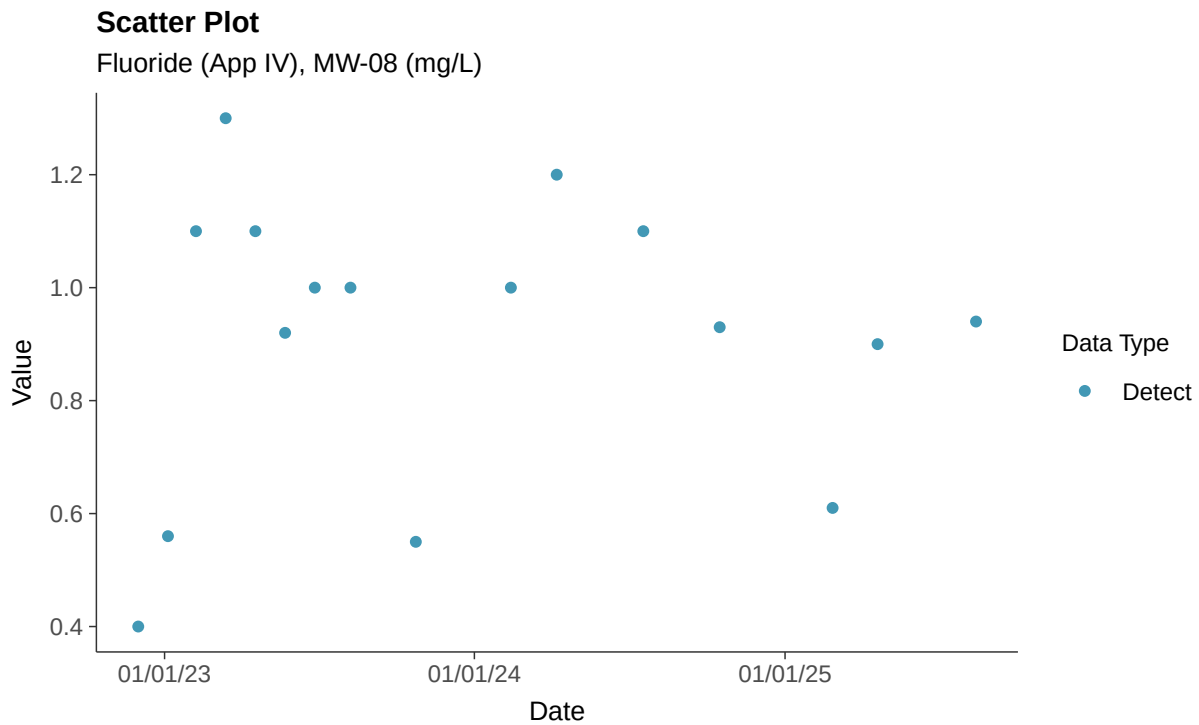
Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-08 (mg/L)



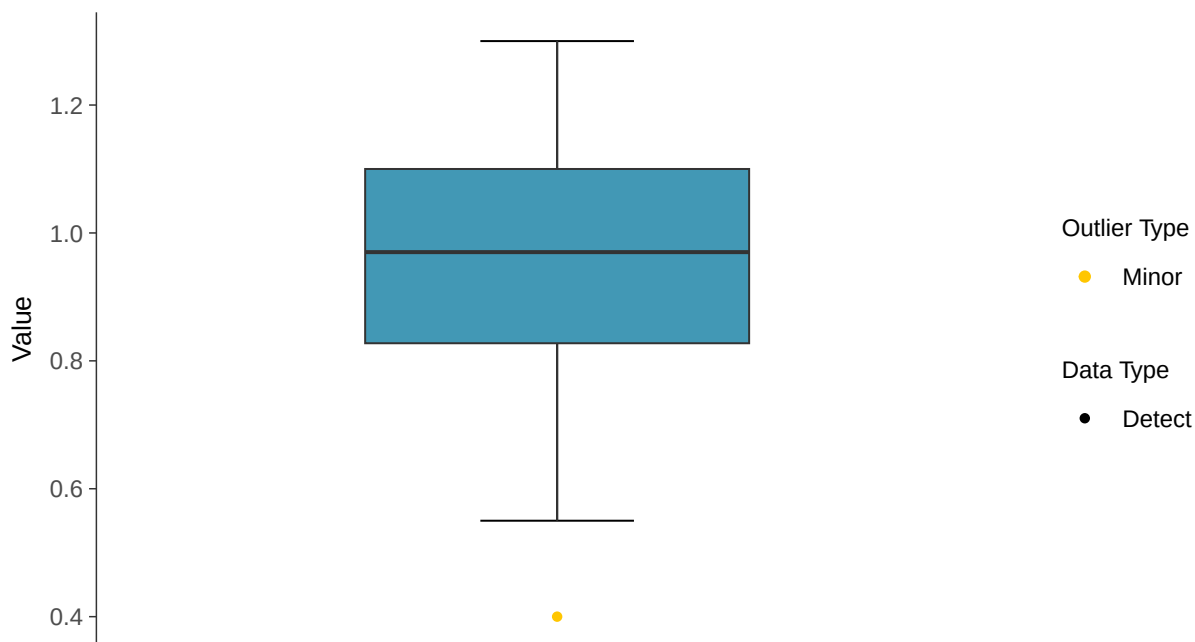
Appendix IV: Fluoride (App IV), MW-08

ID: 18_1_4_113



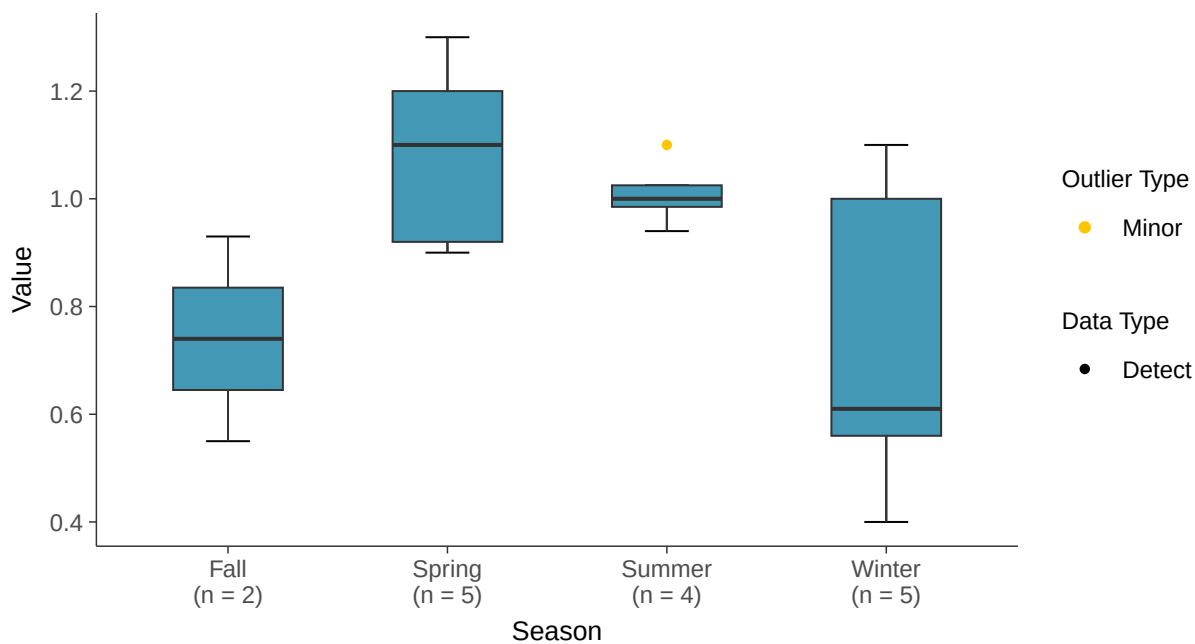
Boxplot

Fluoride (App IV), MW-08 (mg/L)



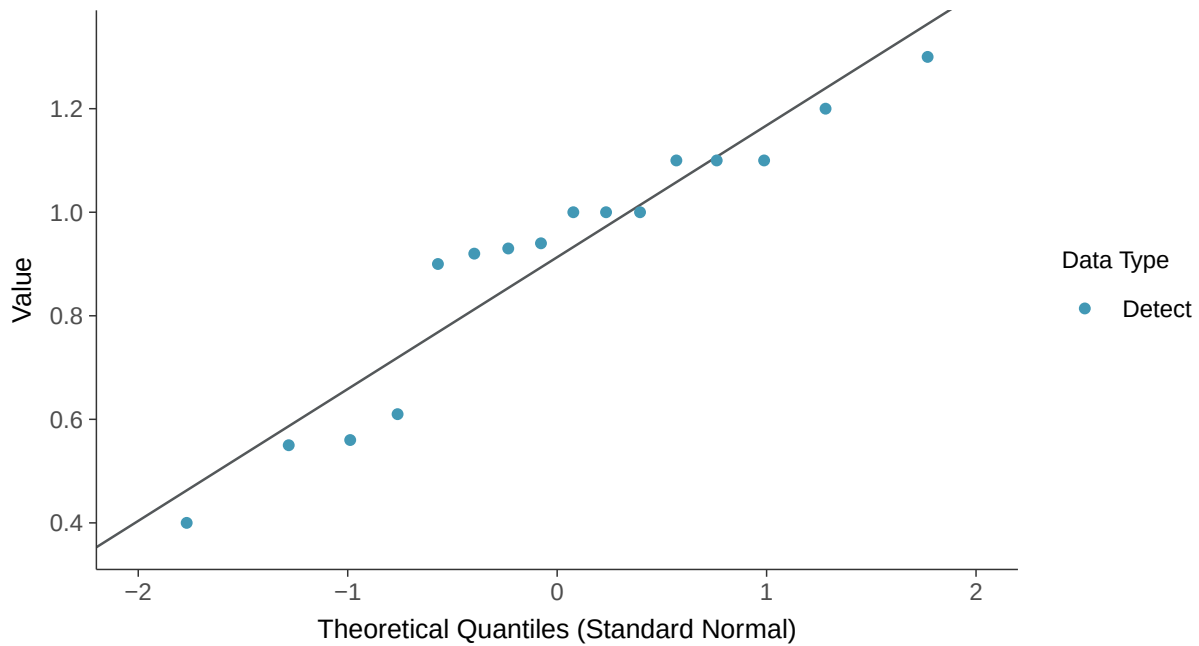
Boxplot by Season

Fluoride (App IV), MW-08 (mg/L)



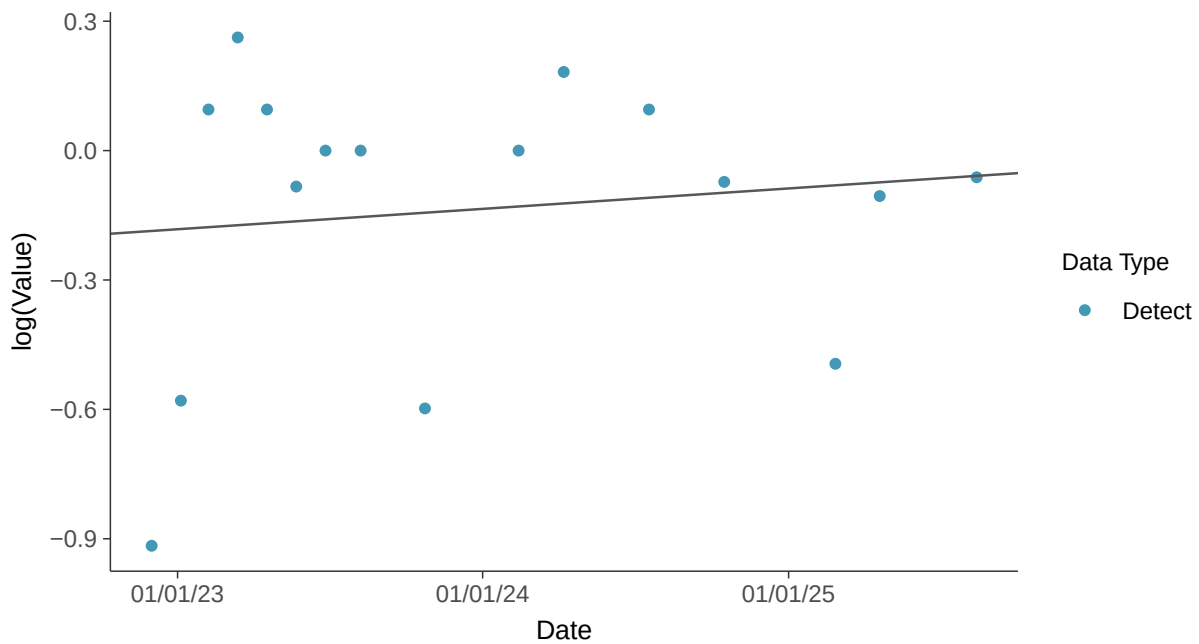
Normal Q-Q plot

Fluoride (App IV), MW-08 (mg/L)



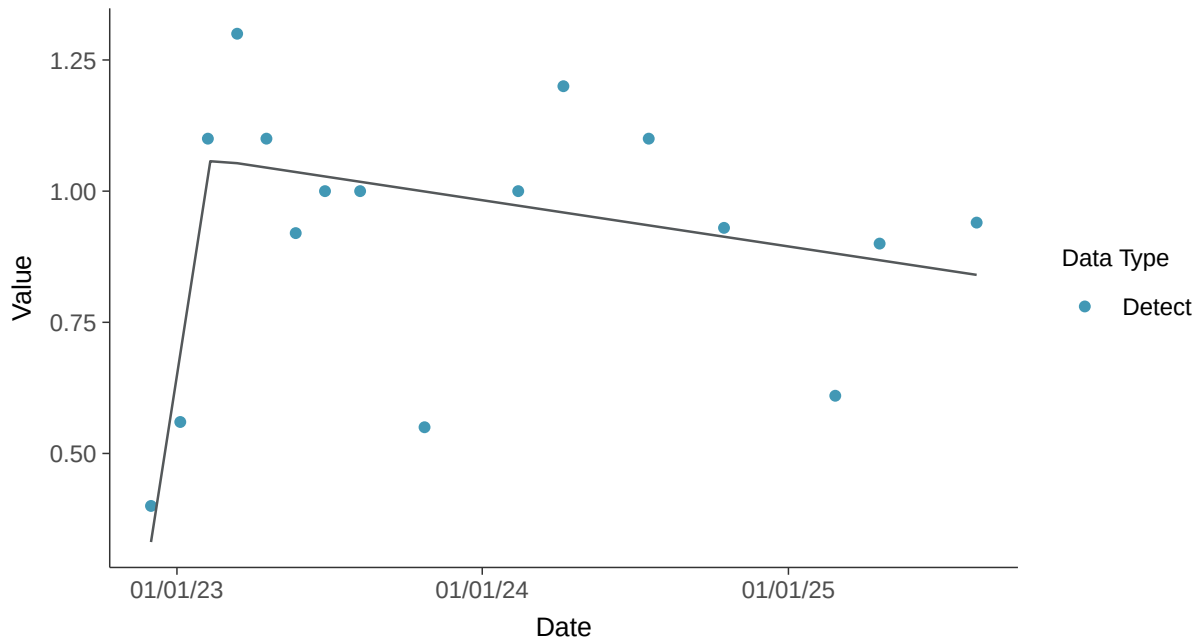
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-08 (mg/L)



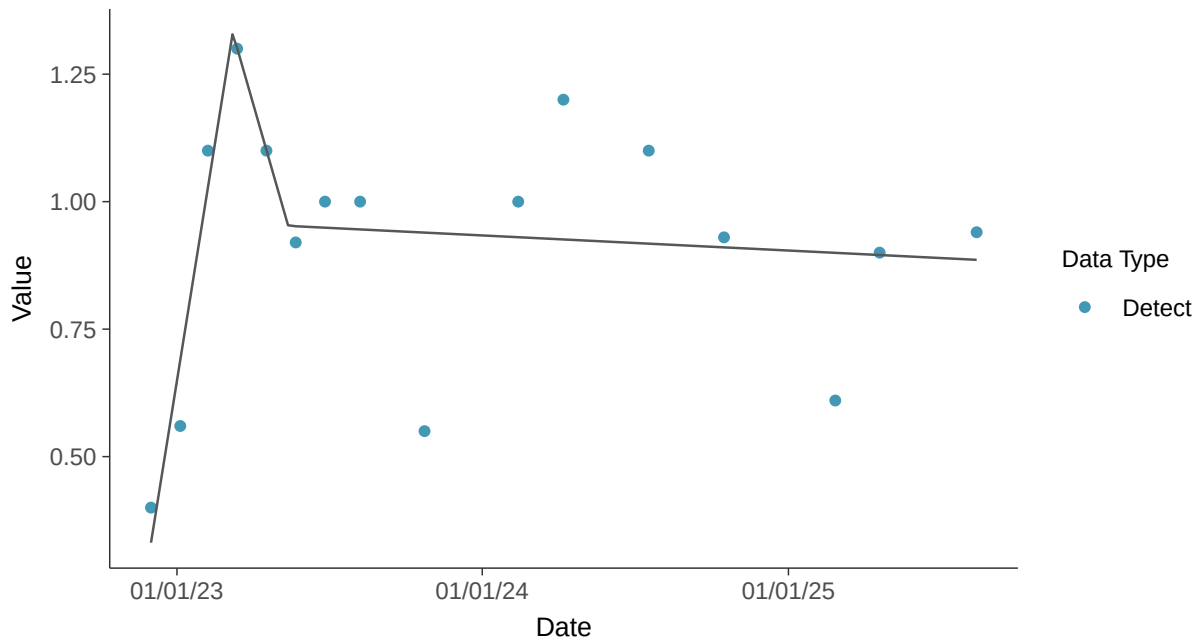
Trend Regression: Piecewise Linear-Linear

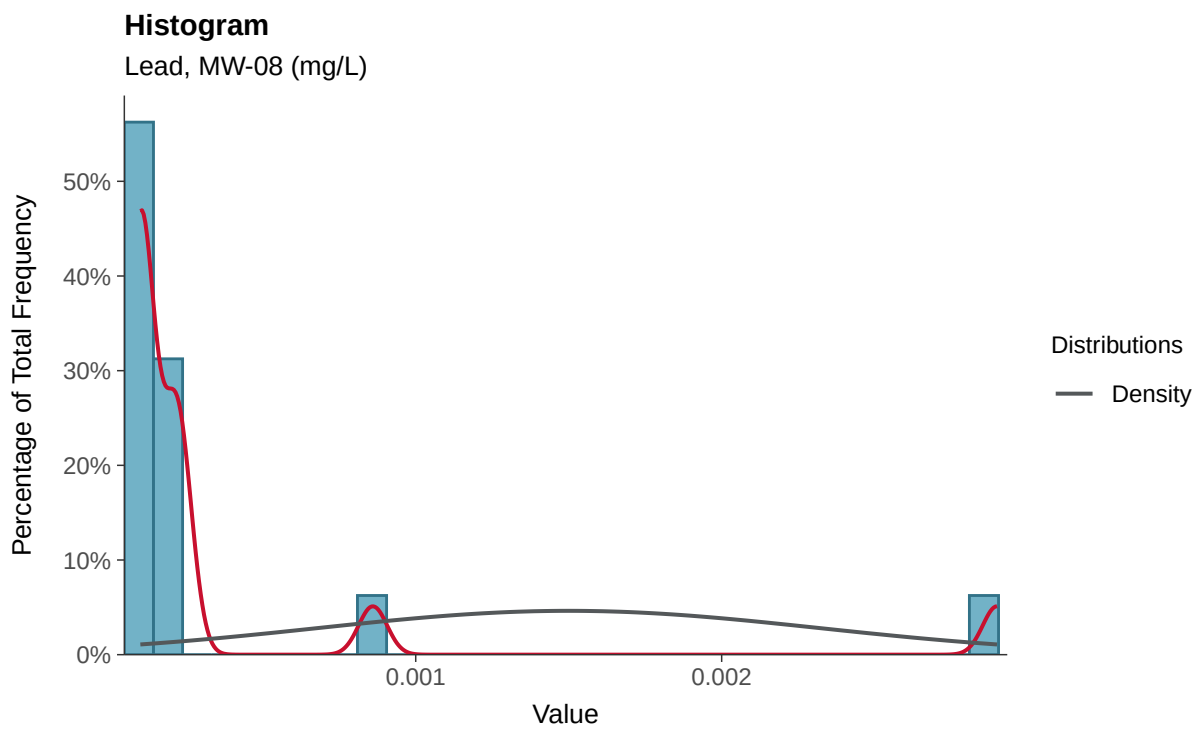
Fluoride (App IV), MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

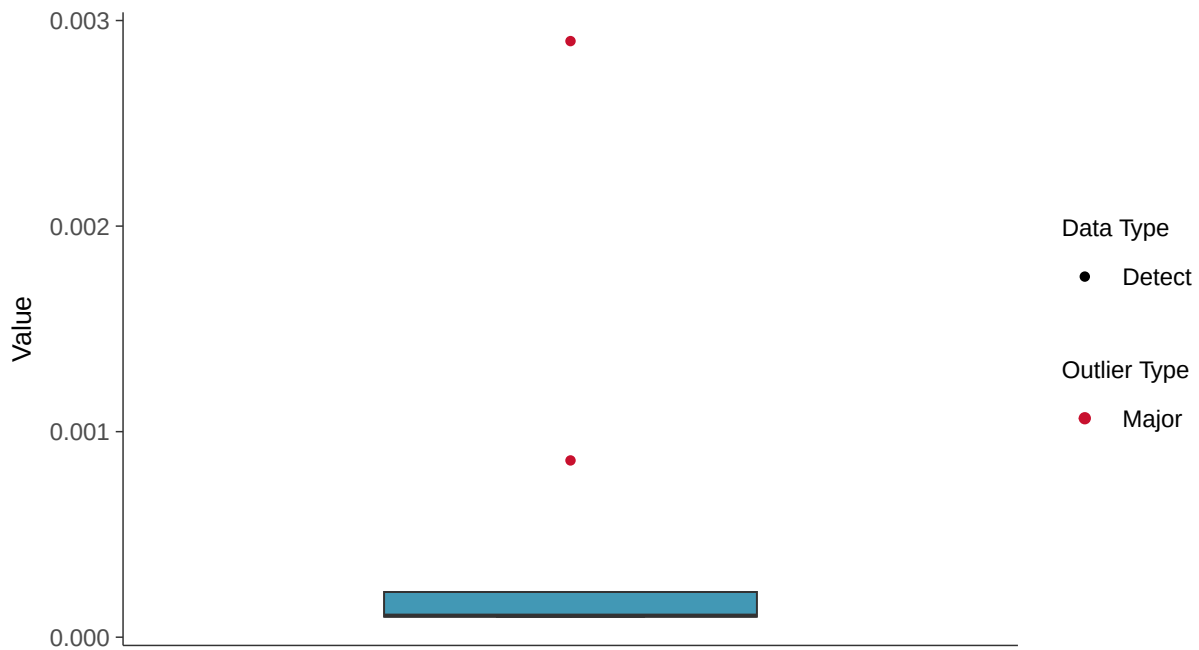
Fluoride (App IV), MW-08 (mg/L)





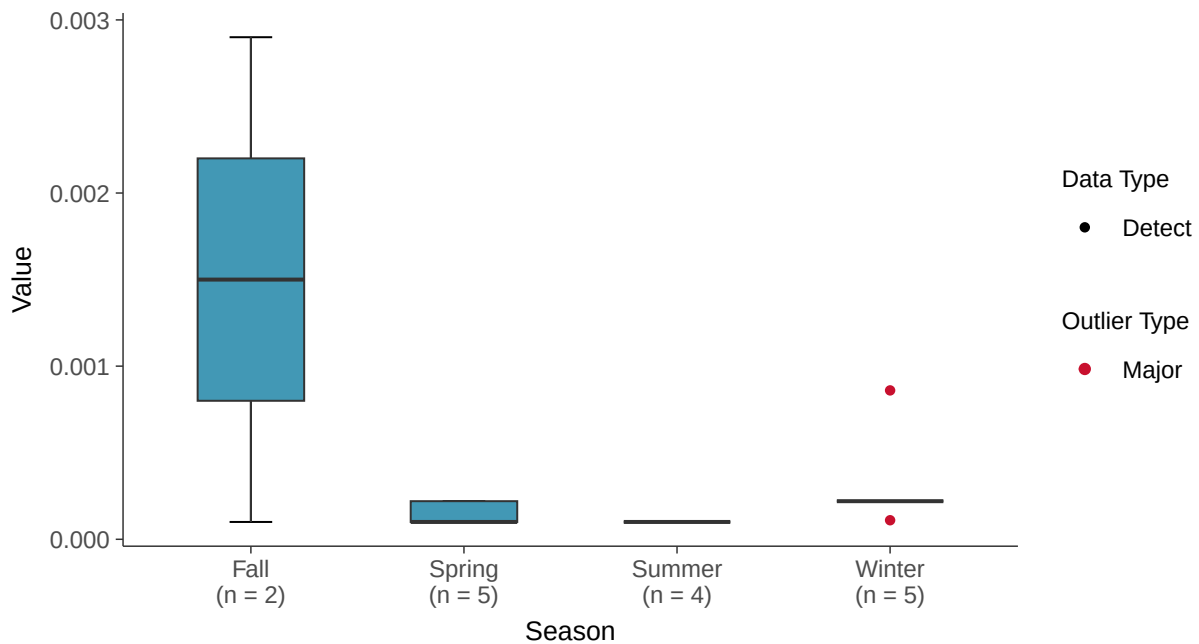
Boxplot

Lead, MW-08 (mg/L)



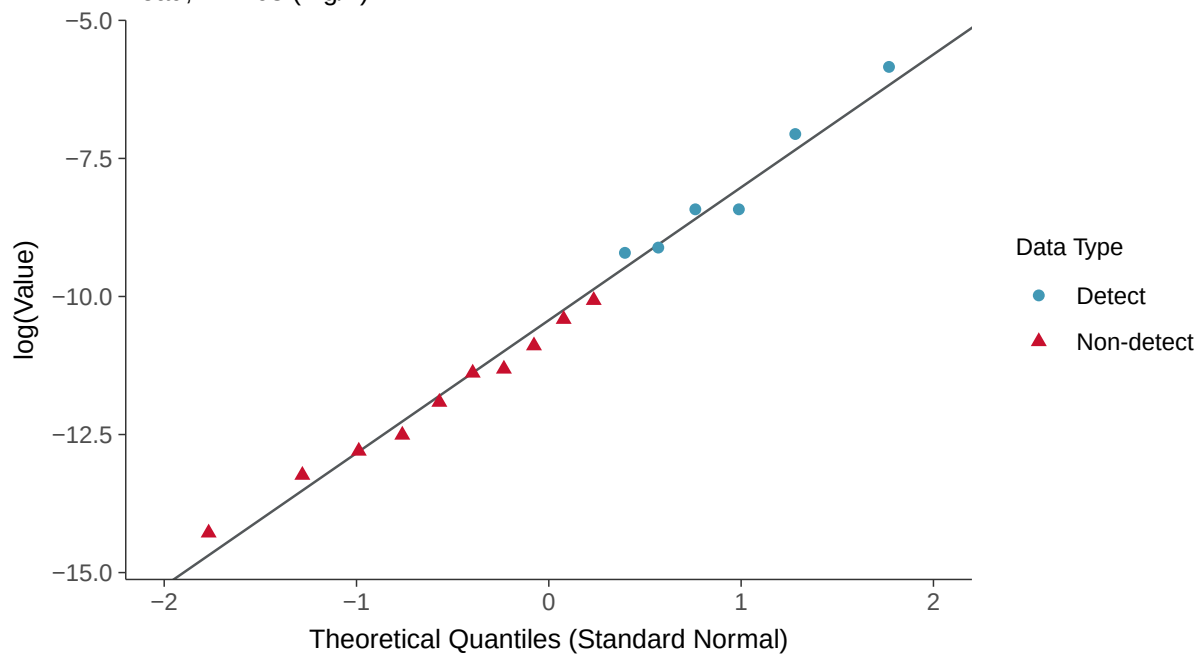
Boxplot by Season

Lead, MW-08 (mg/L)



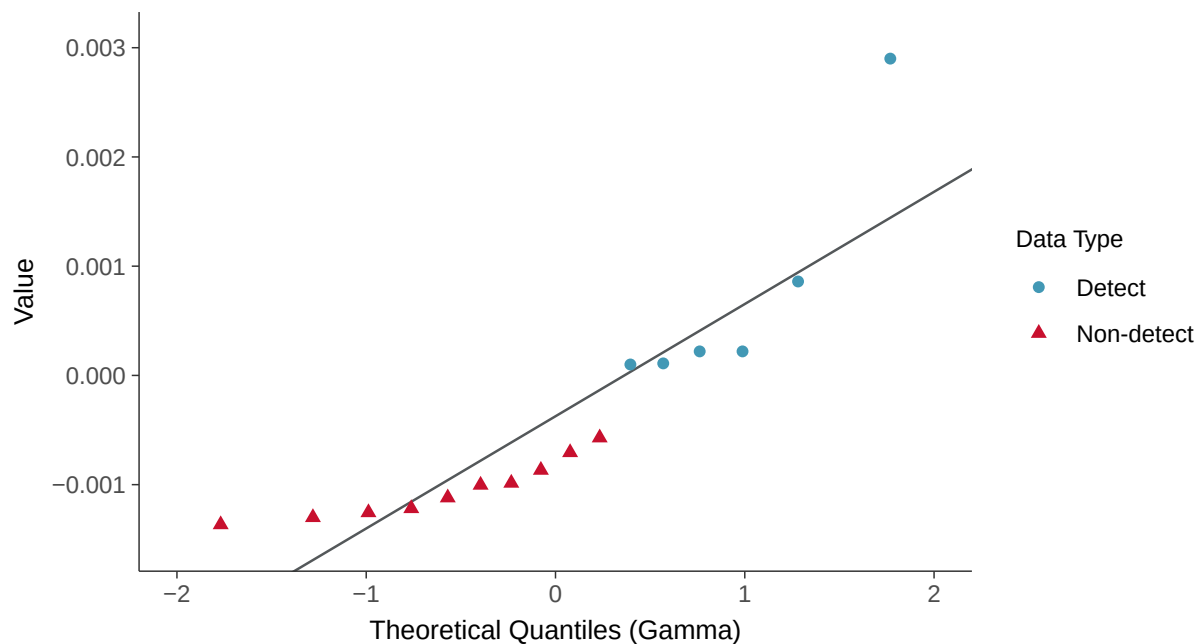
Lognormal Q-Q plot using ROS Imputed Estimates

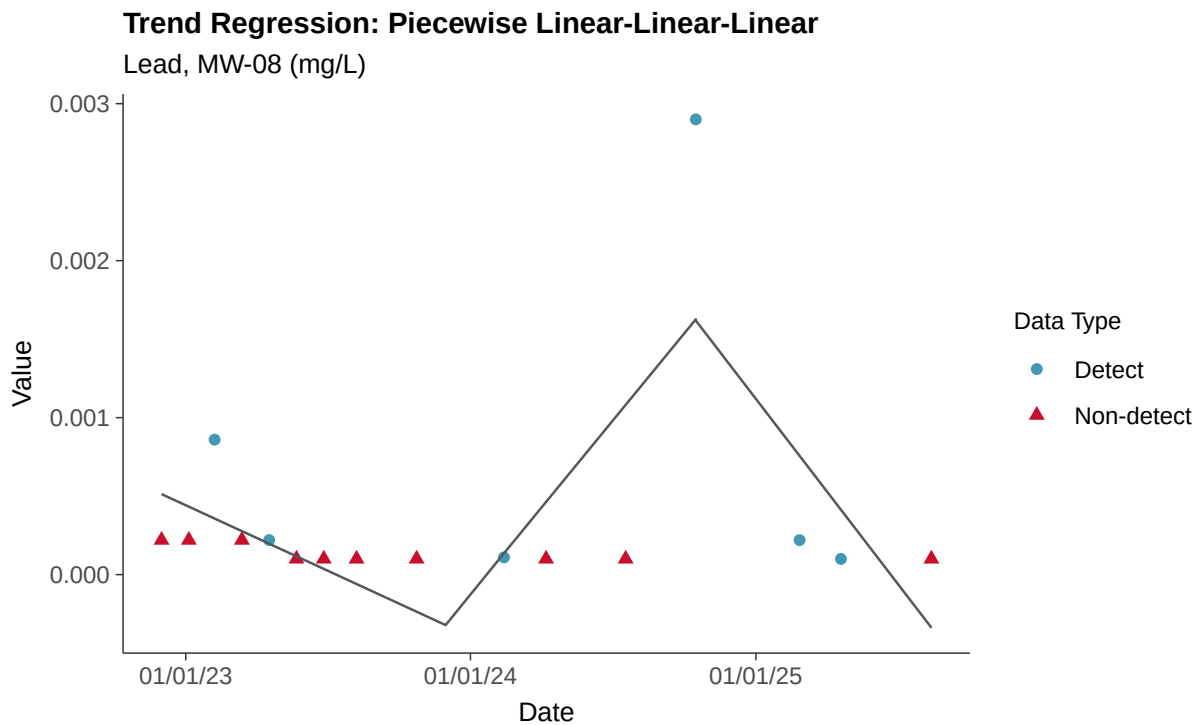
Lead, MW-08 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

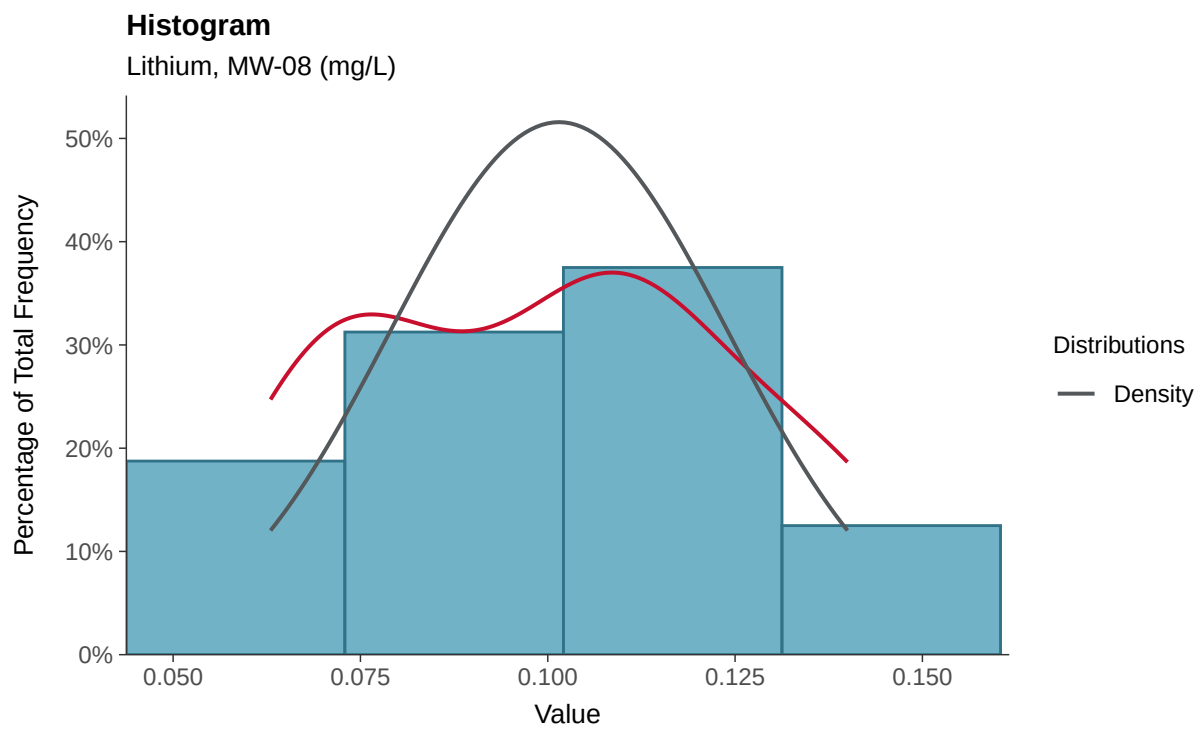
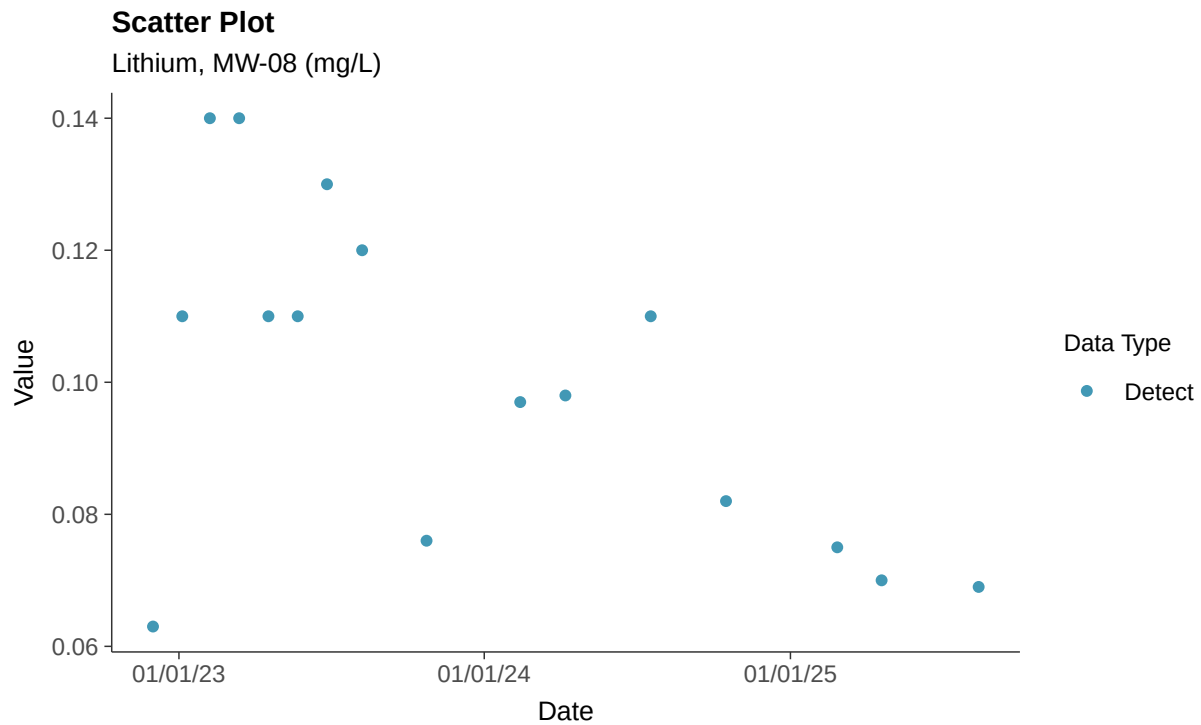
Lead, MW-08 (mg/L)





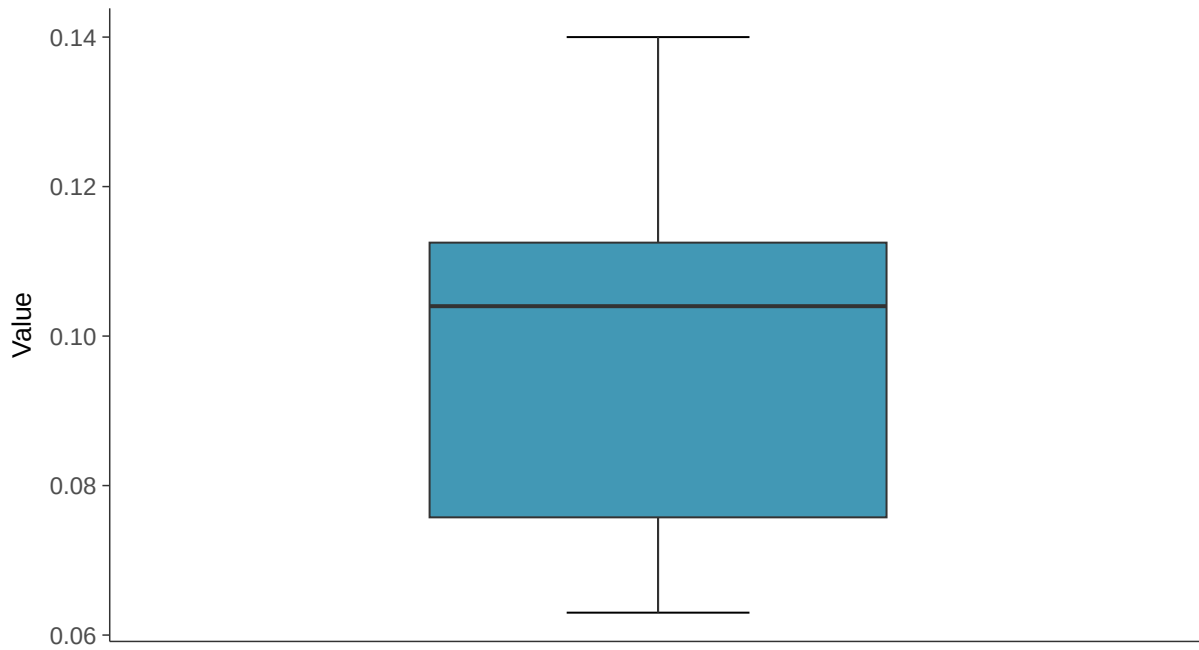
Appendix IV: Lithium, MW-08

ID: 18_1_4_116



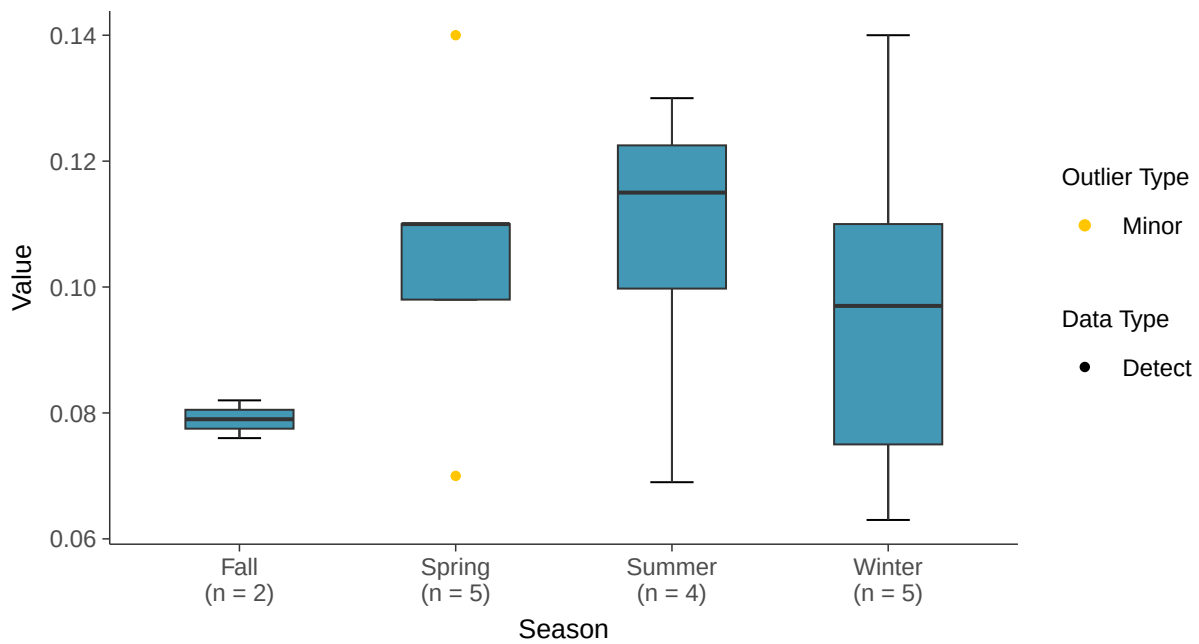
Boxplot

Lithium, MW-08 (mg/L)



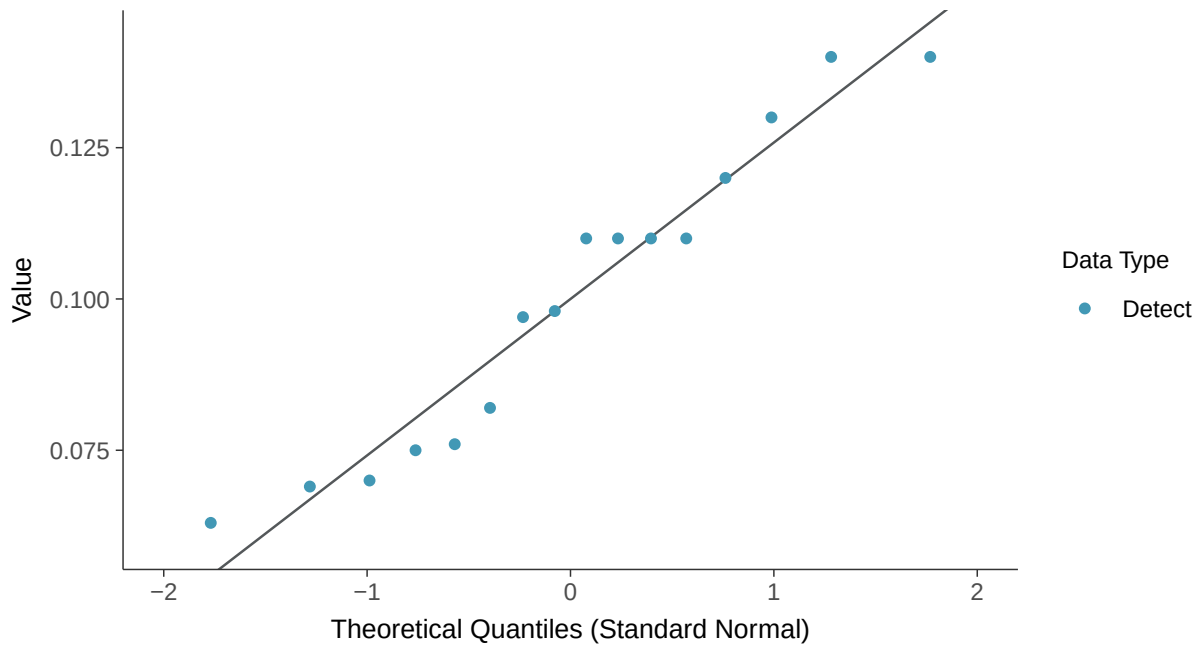
Boxplot by Season

Lithium, MW-08 (mg/L)



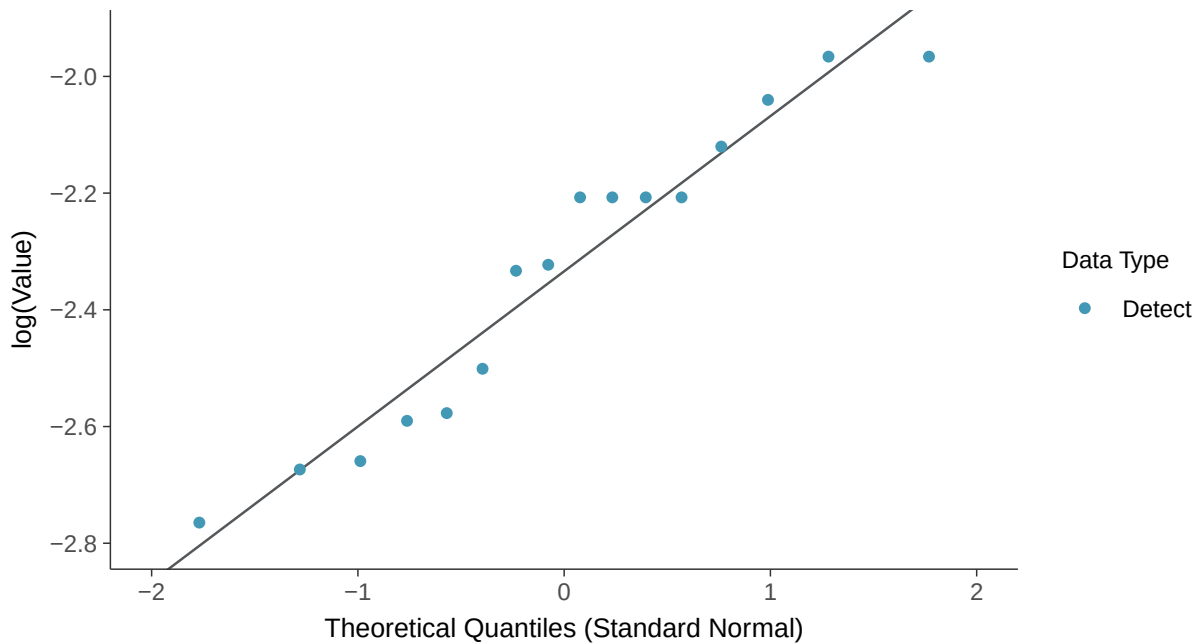
Normal Q-Q plot

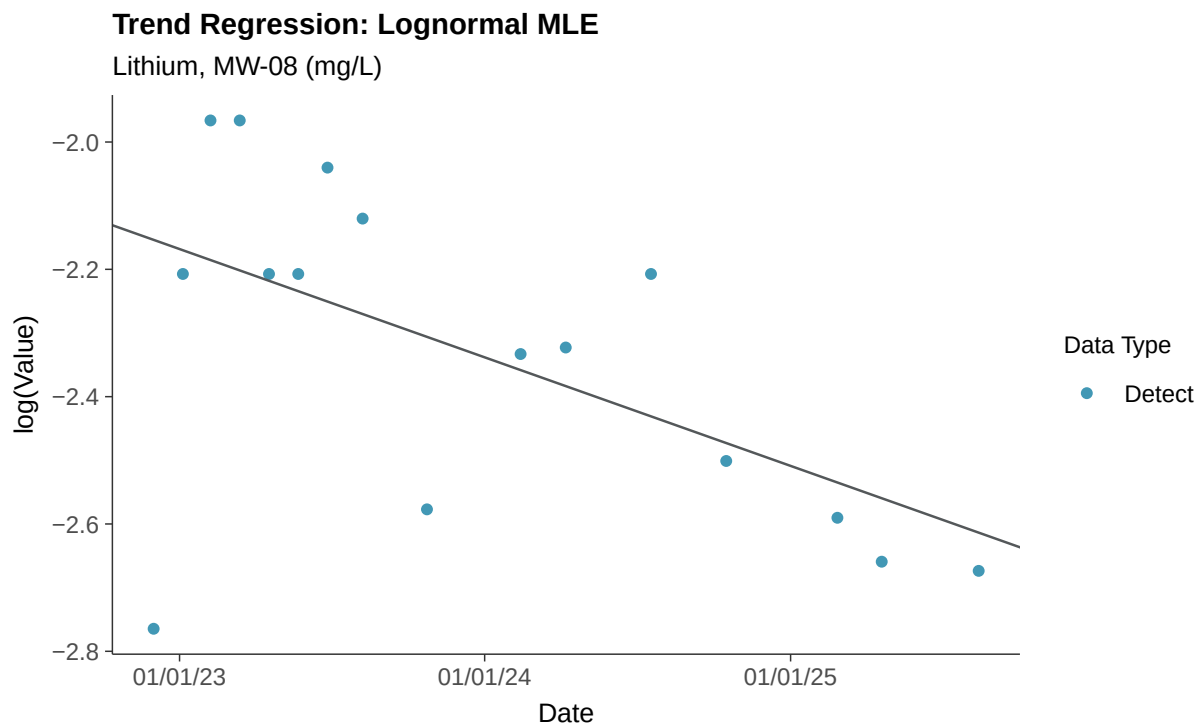
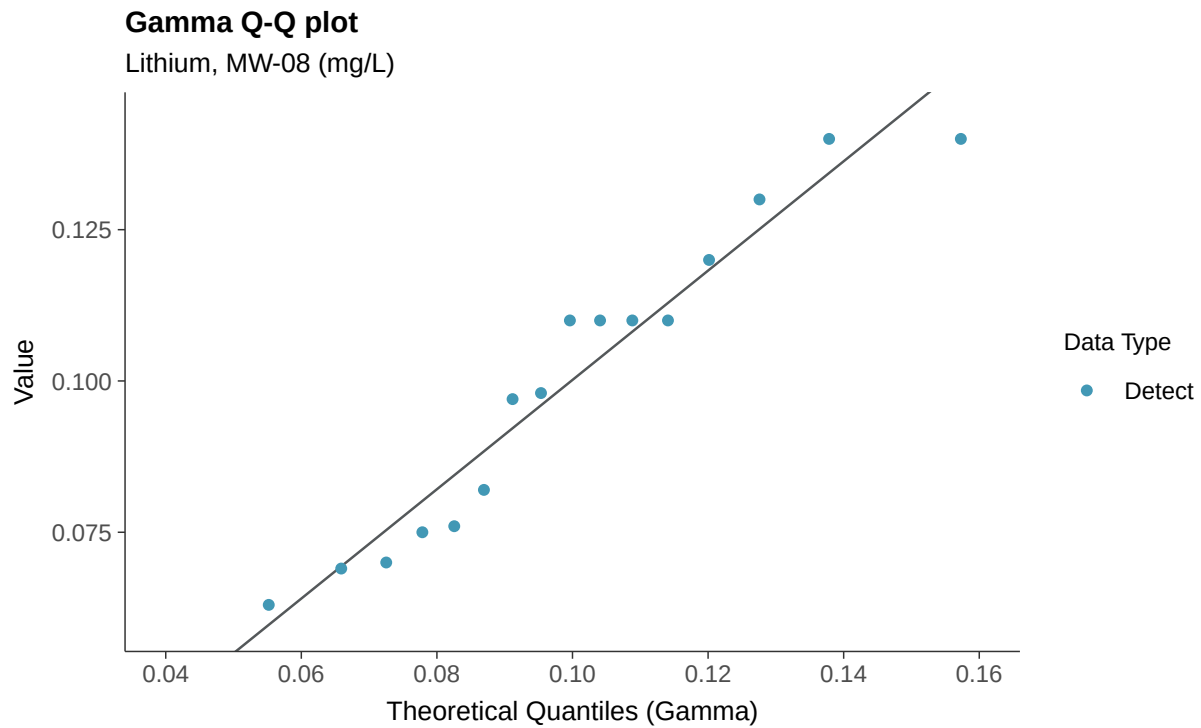
Lithium, MW-08 (mg/L)

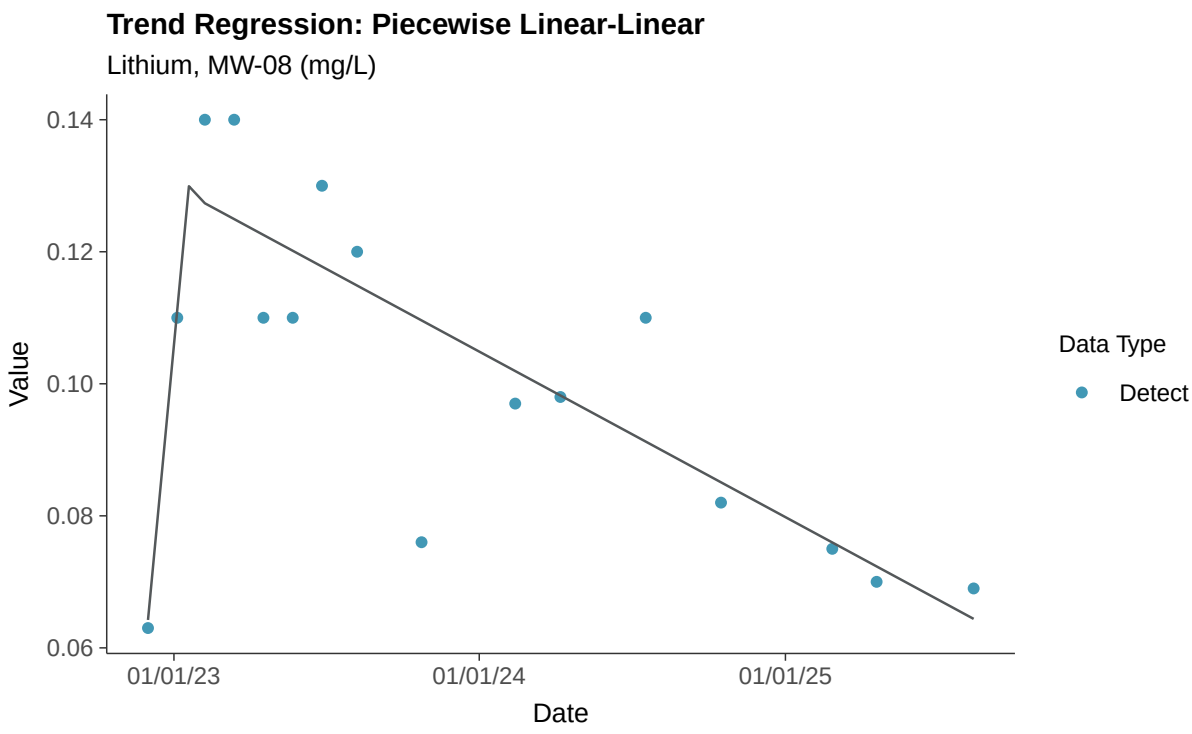


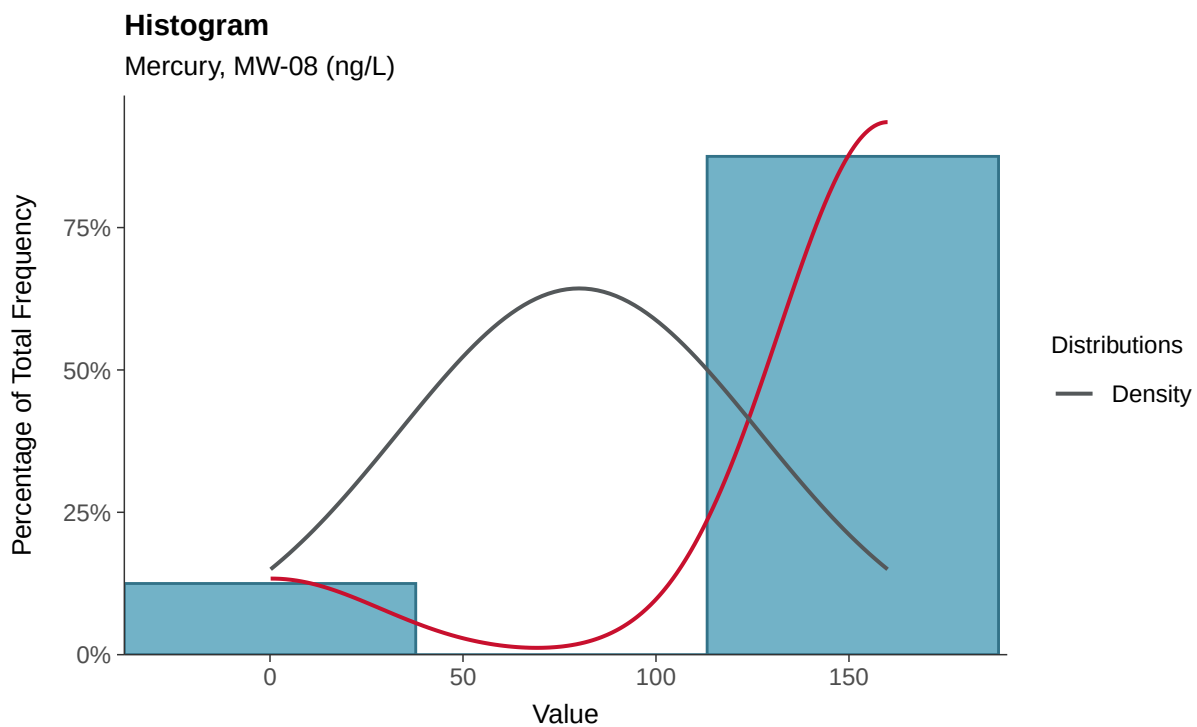
Lognormal Q-Q plot

Lithium, MW-08 (mg/L)









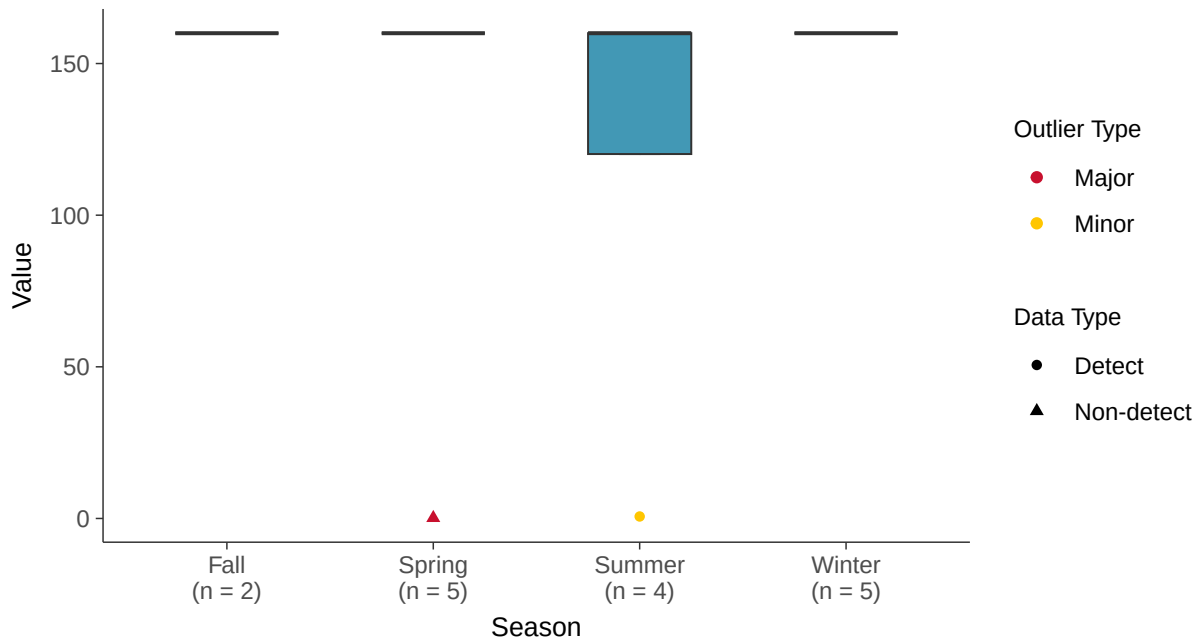
Boxplot

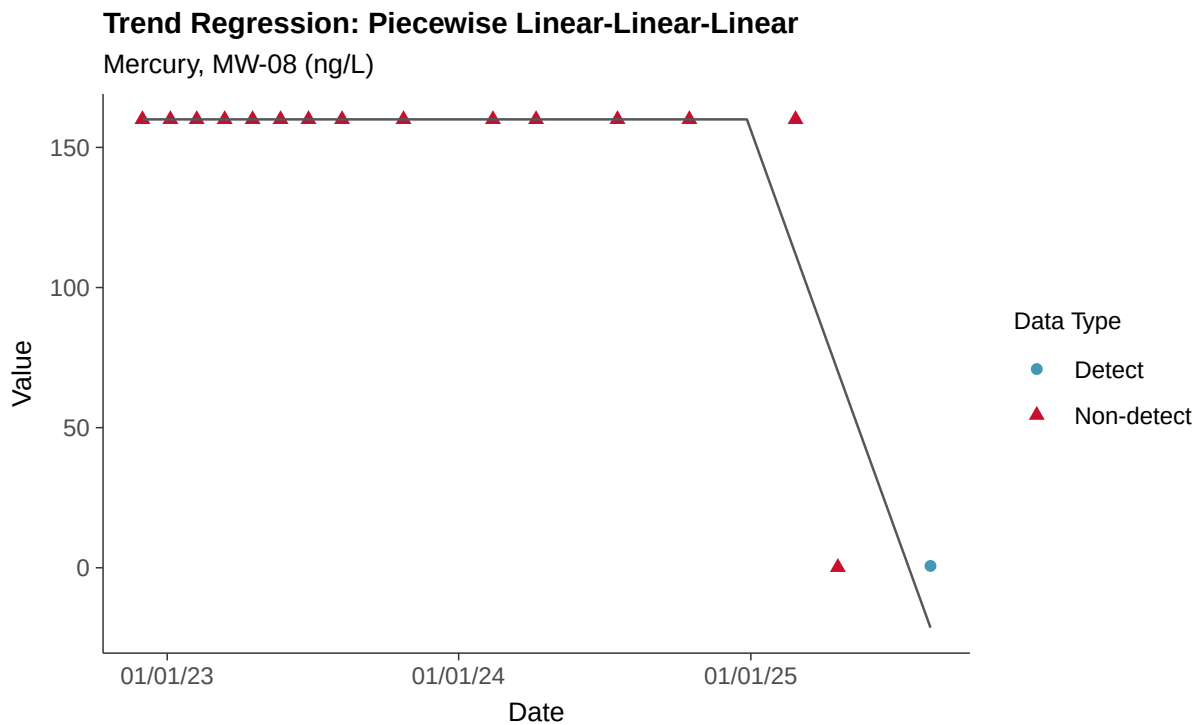
Mercury, MW-08 (ng/L)



Boxplot by Season

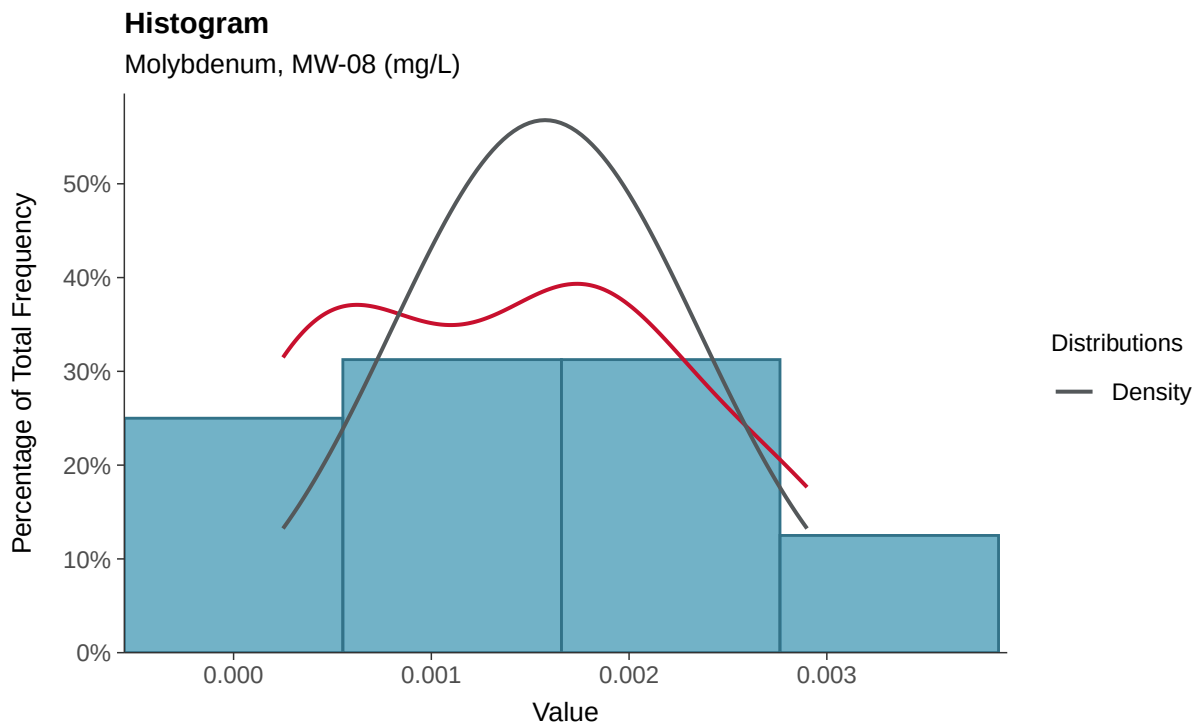
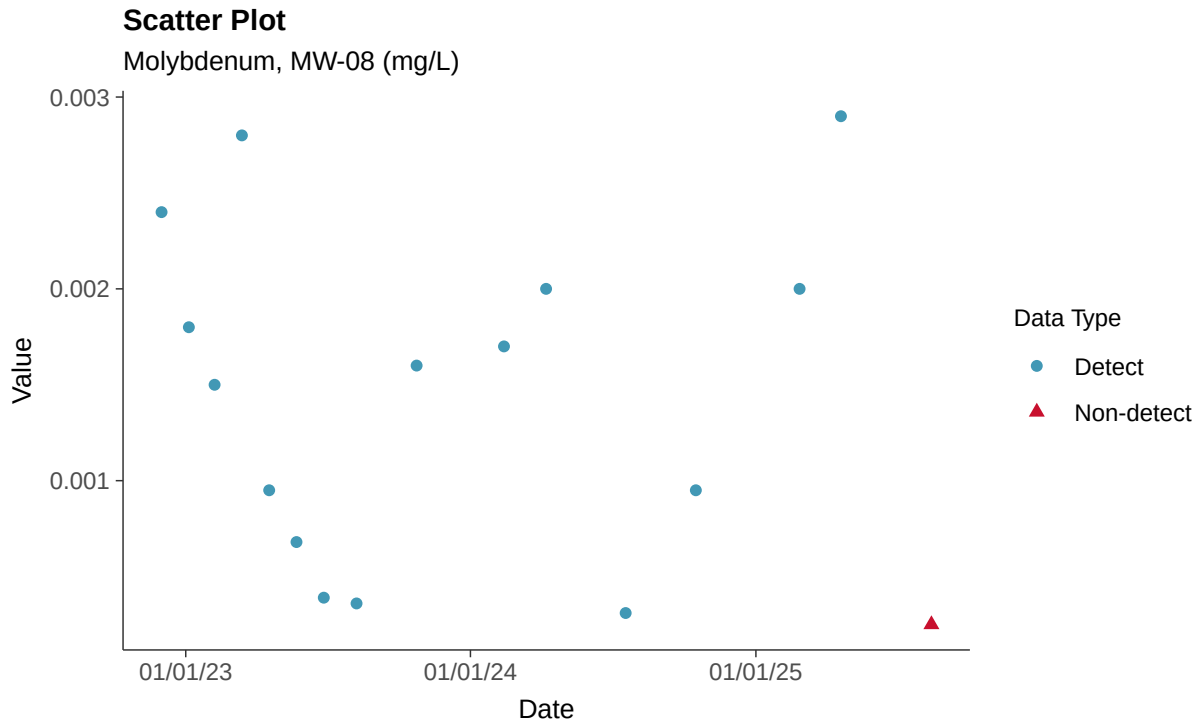
Mercury, MW-08 (ng/L)





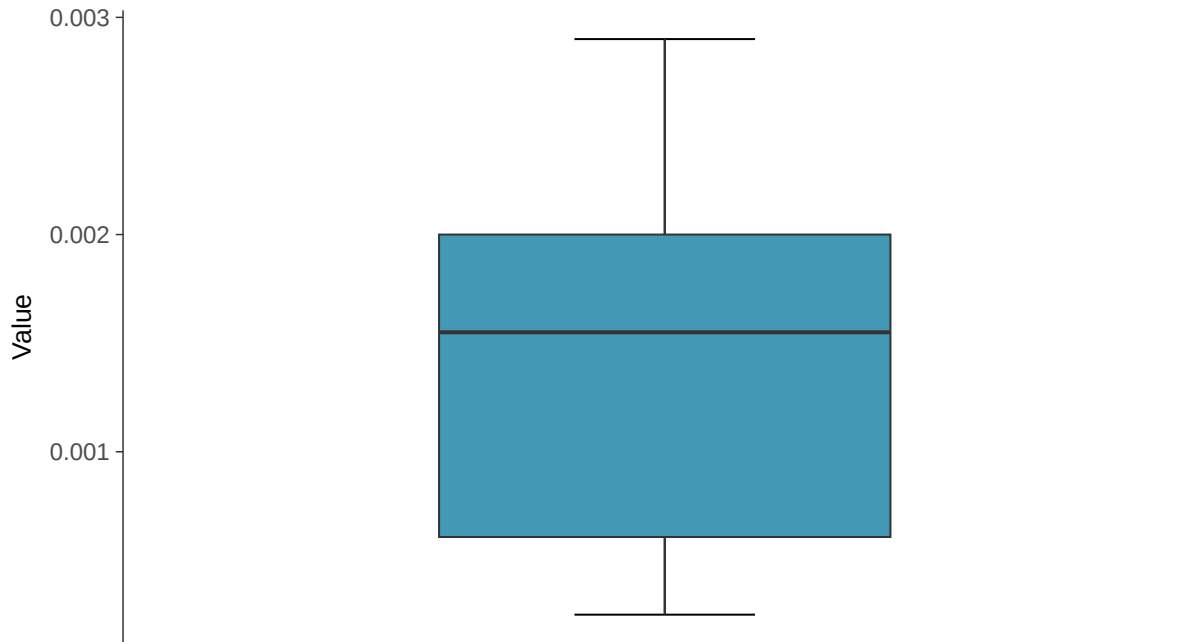
Appendix IV: Molybdenum, MW-08

ID: 18_1_4_118



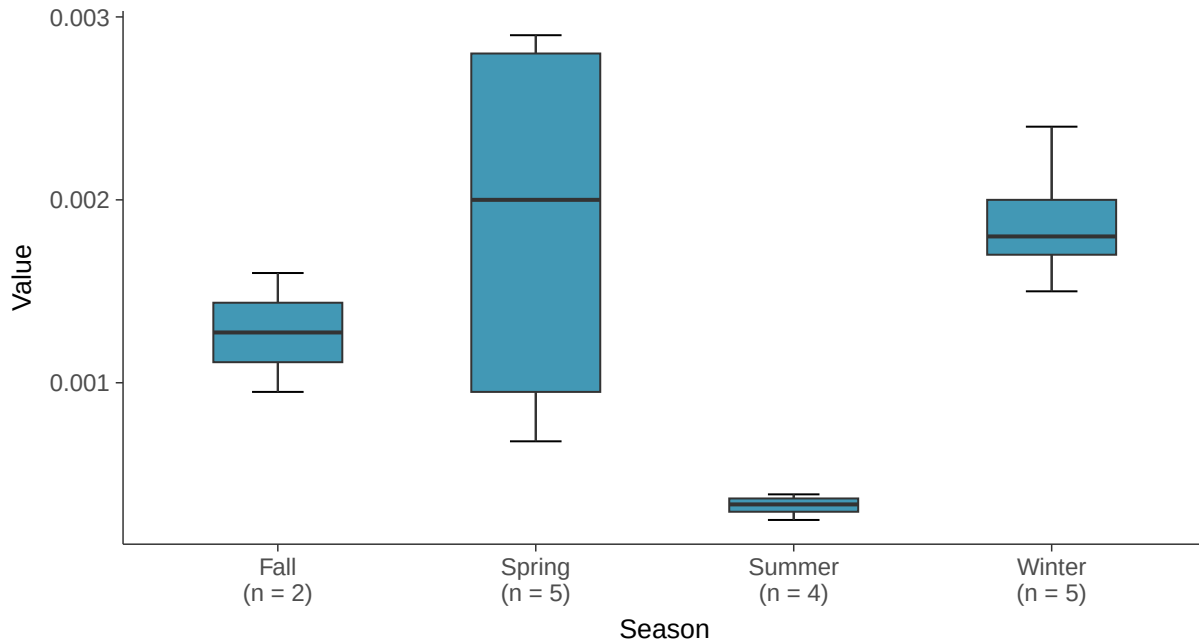
Boxplot

Molybdenum, MW-08 (mg/L)



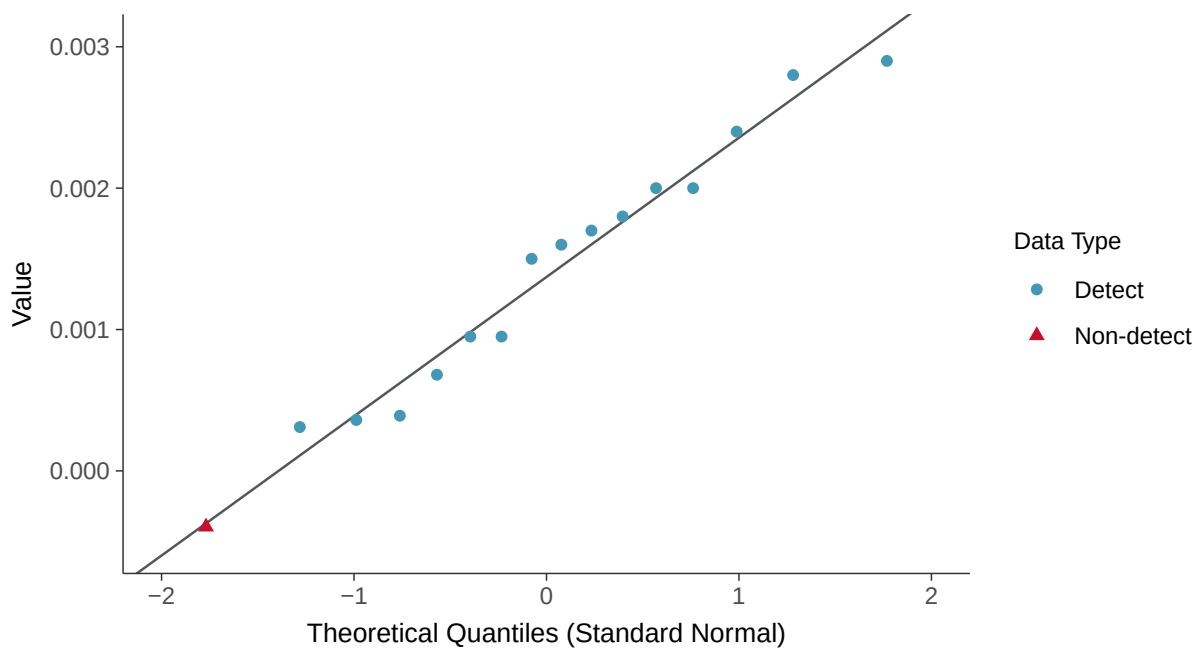
Boxplot by Season

Molybdenum, MW-08 (mg/L)



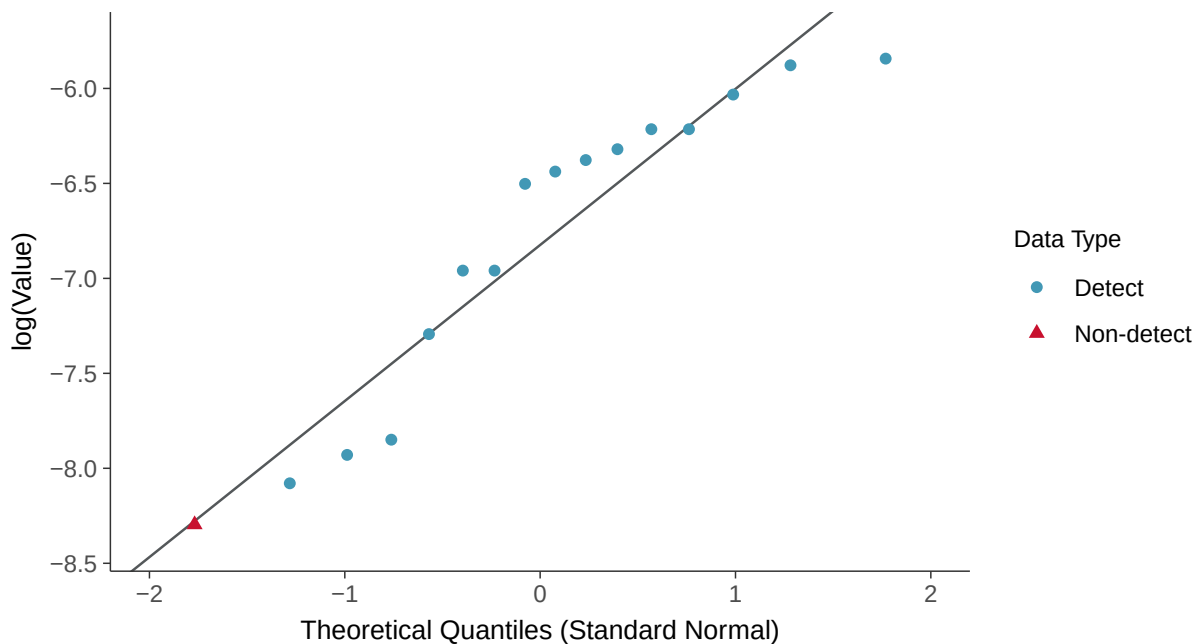
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-08 (mg/L)



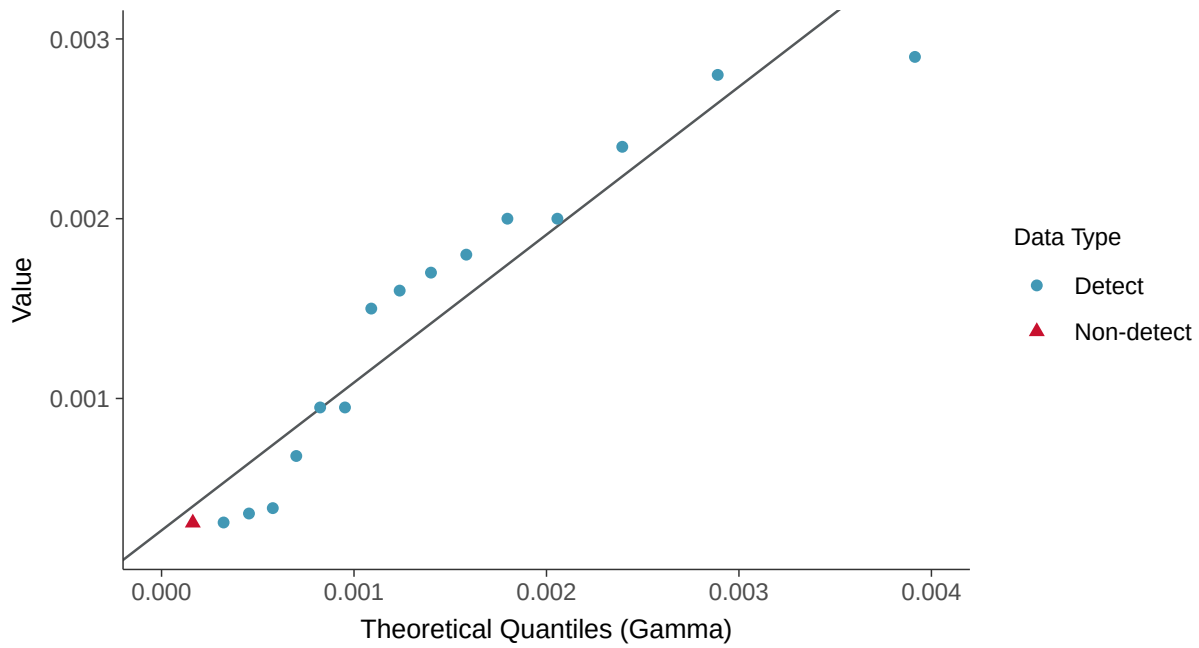
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-08 (mg/L)



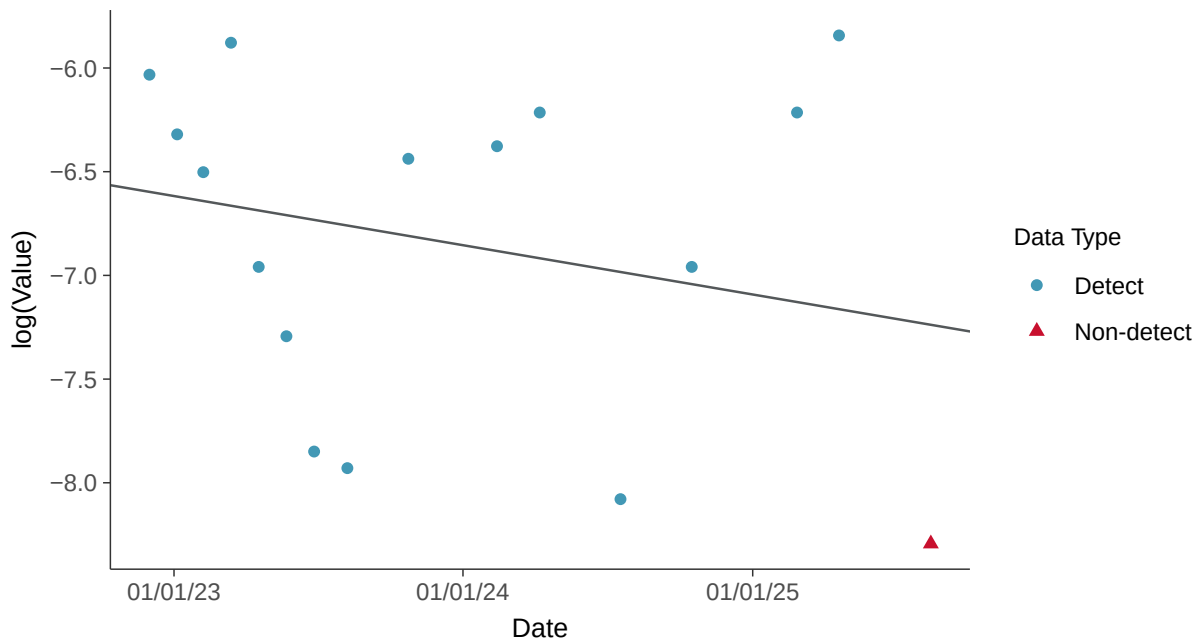
Gamma Q-Q plot using ROS Imputed Estimates

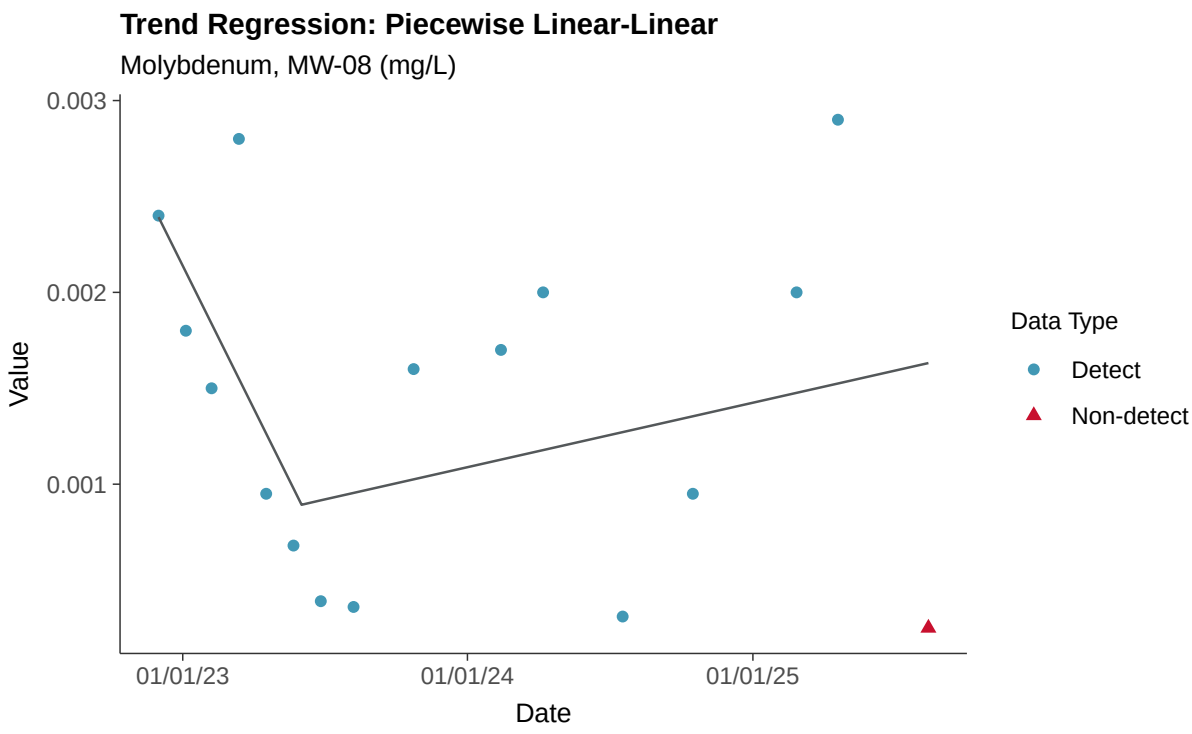
Molybdenum, MW-08 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-08 (mg/L)



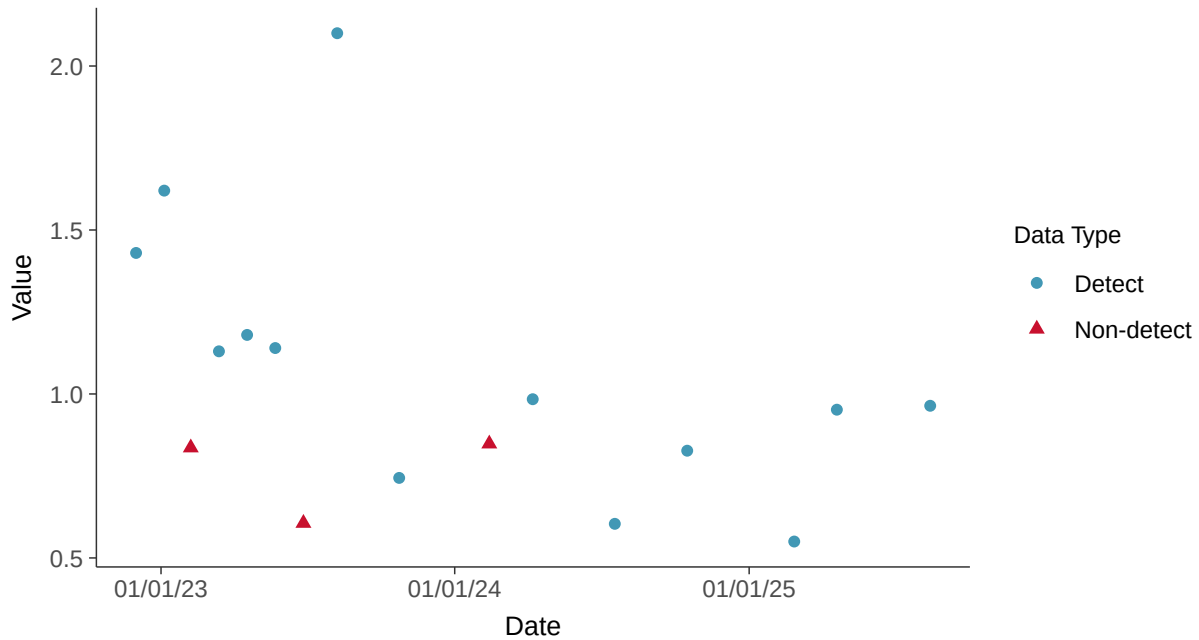


Appendix IV: Radium 226 and 228, MW-08

ID: 18_1_4_121

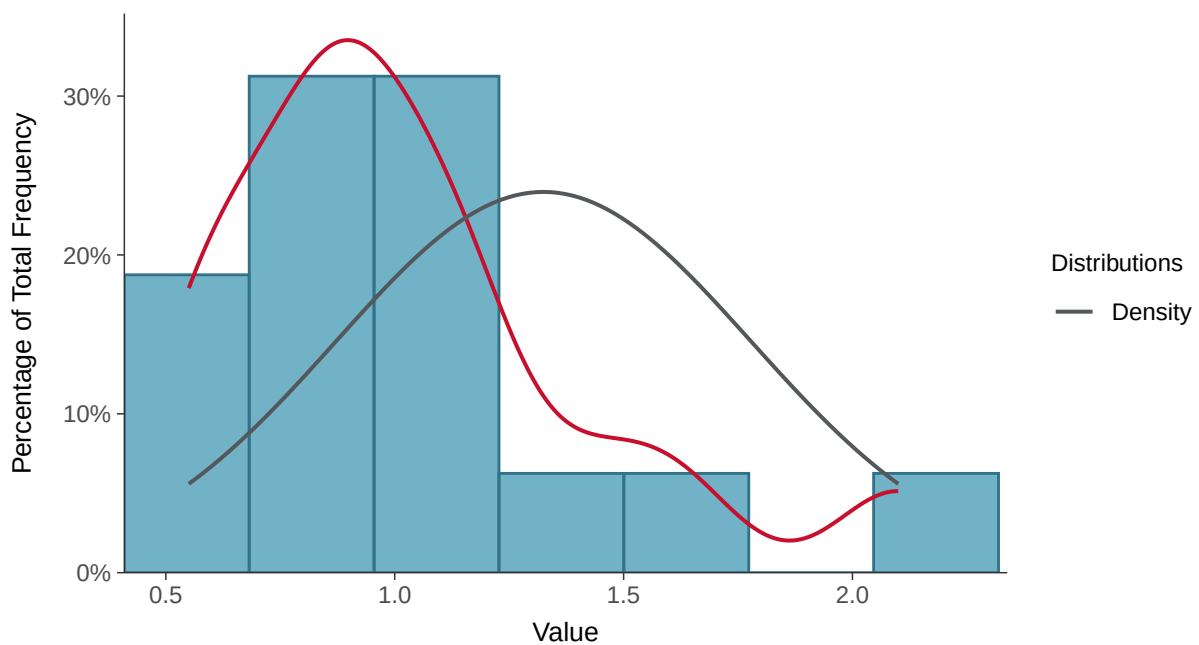
Scatter Plot

Radium 226 and 228, MW-08 (pCi/L)



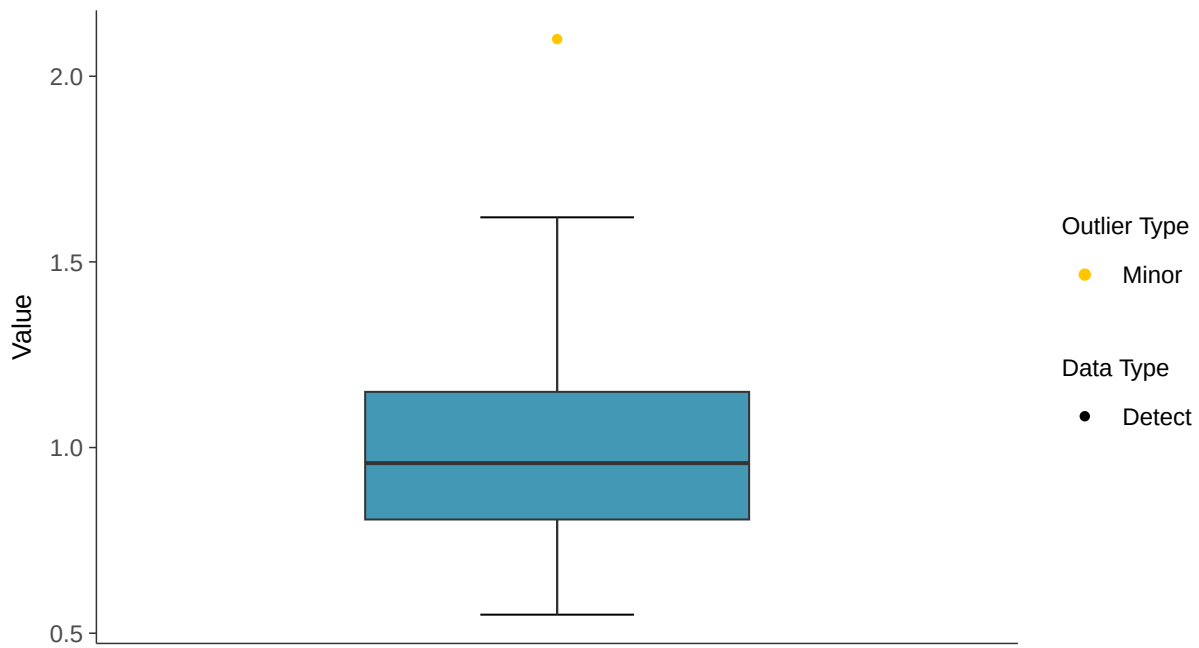
Histogram

Radium 226 and 228, MW-08 (pCi/L)



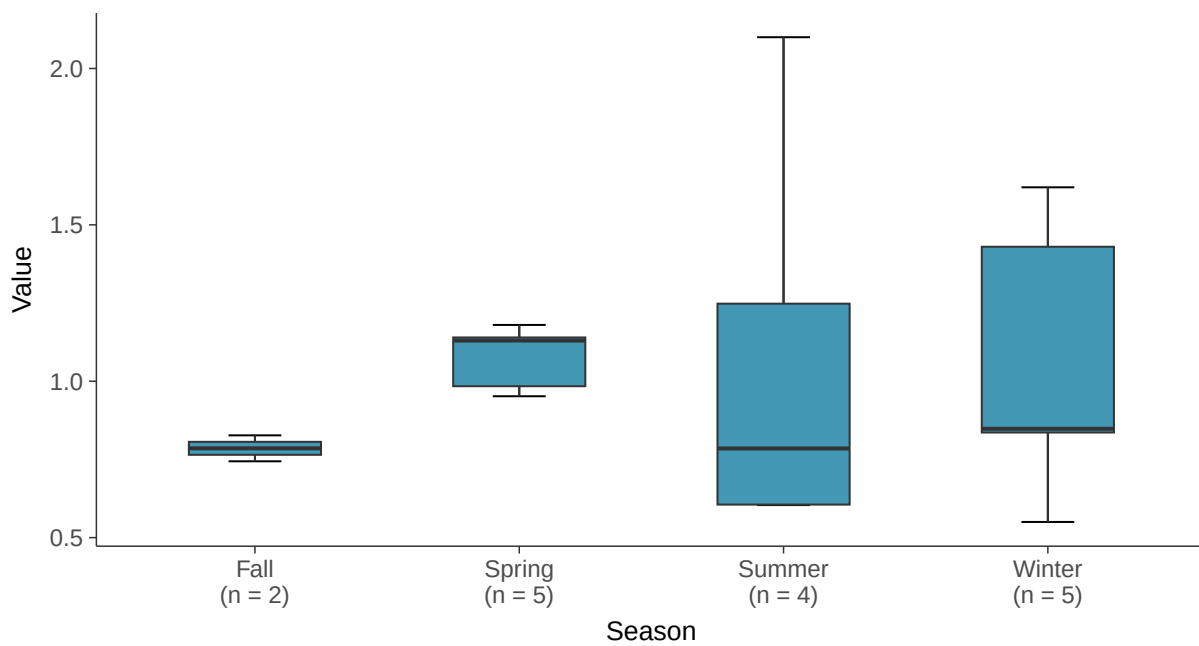
Boxplot

Radium 226 and 228, MW-08 (pCi/L)



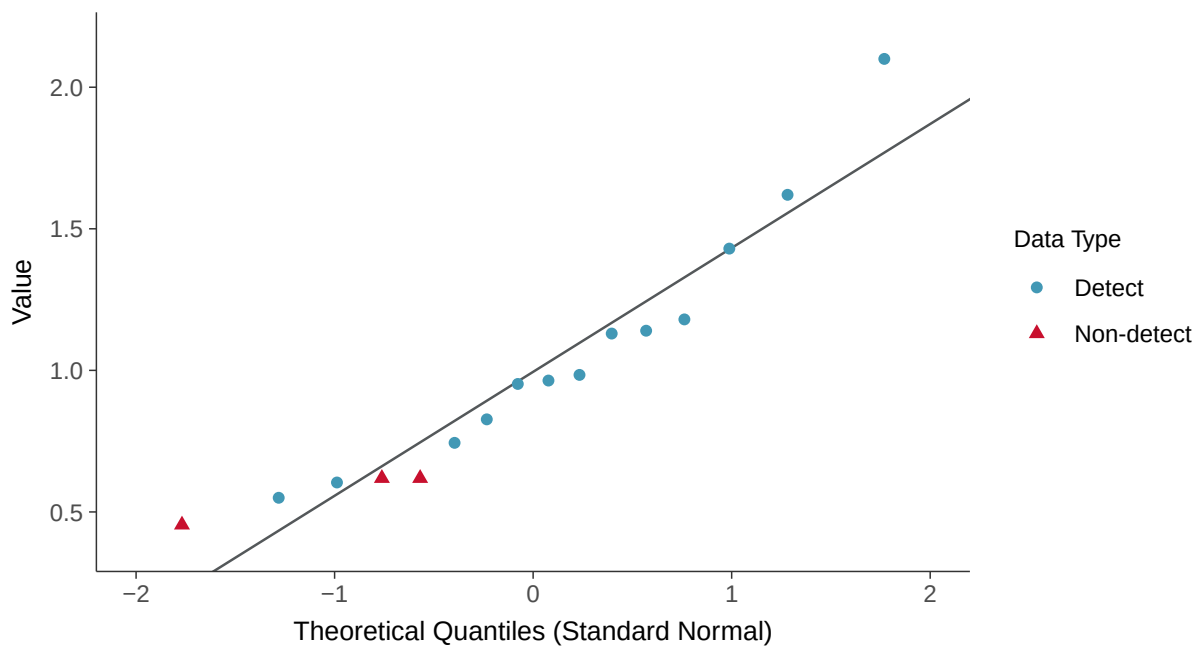
Boxplot by Season

Radium 226 and 228, MW-08 (pCi/L)



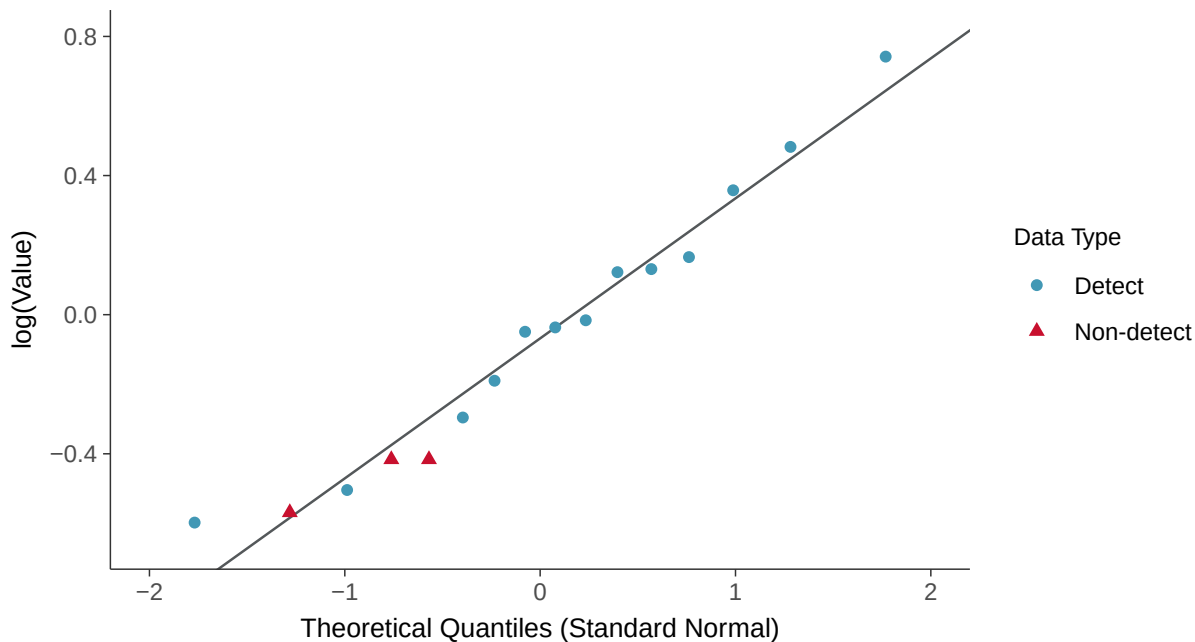
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



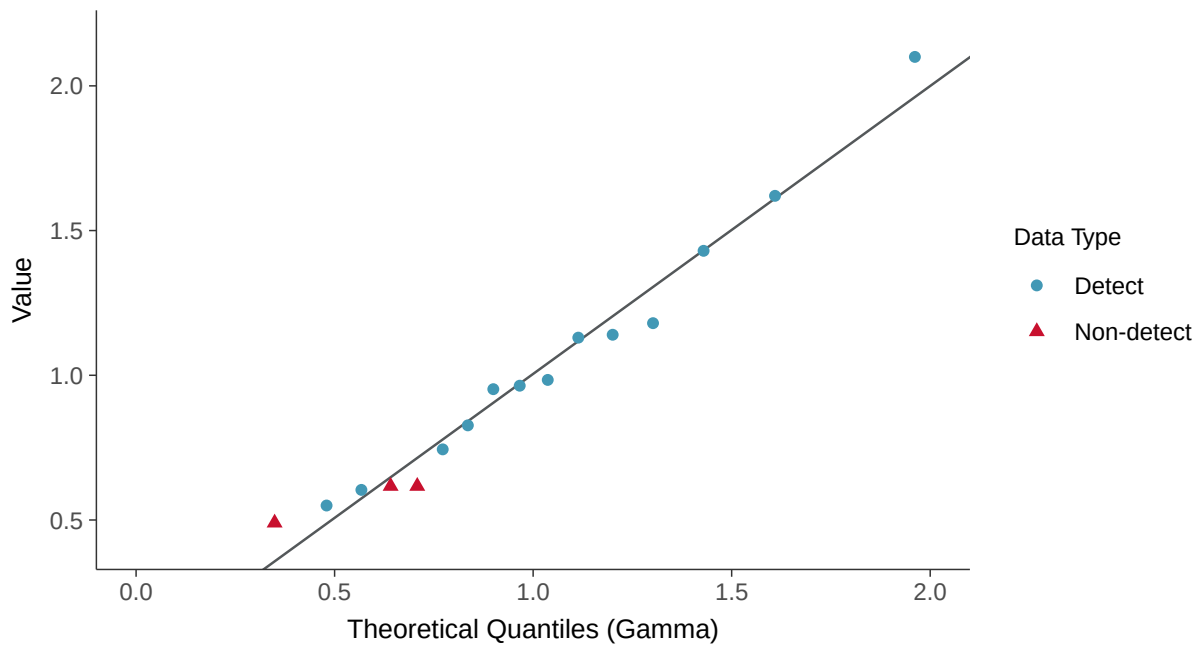
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



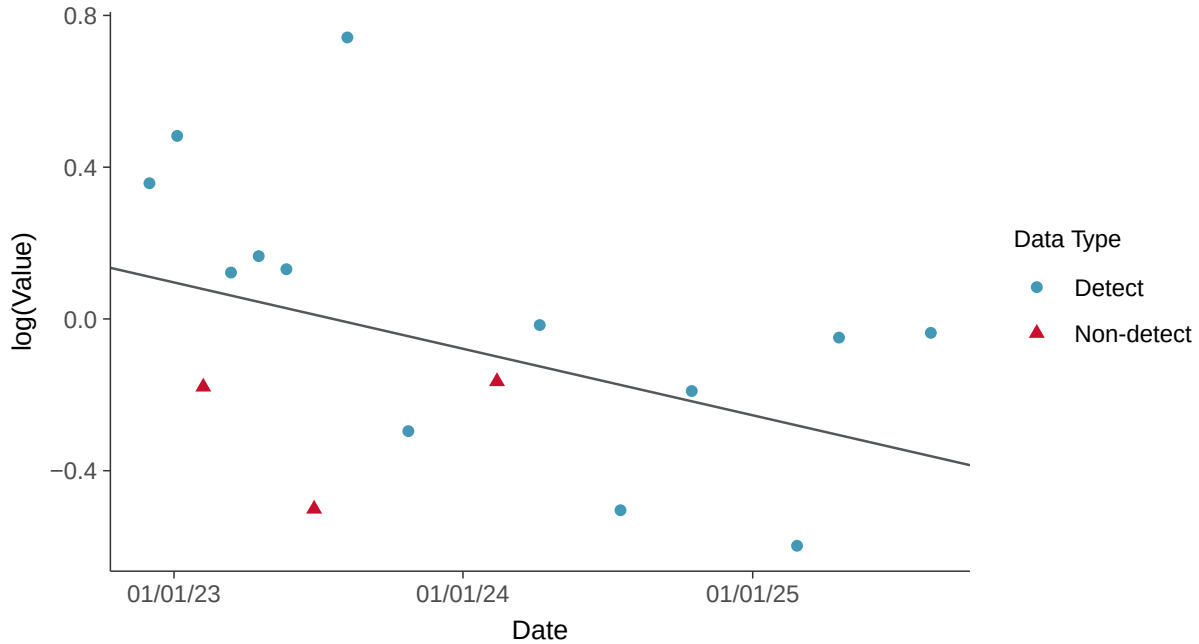
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



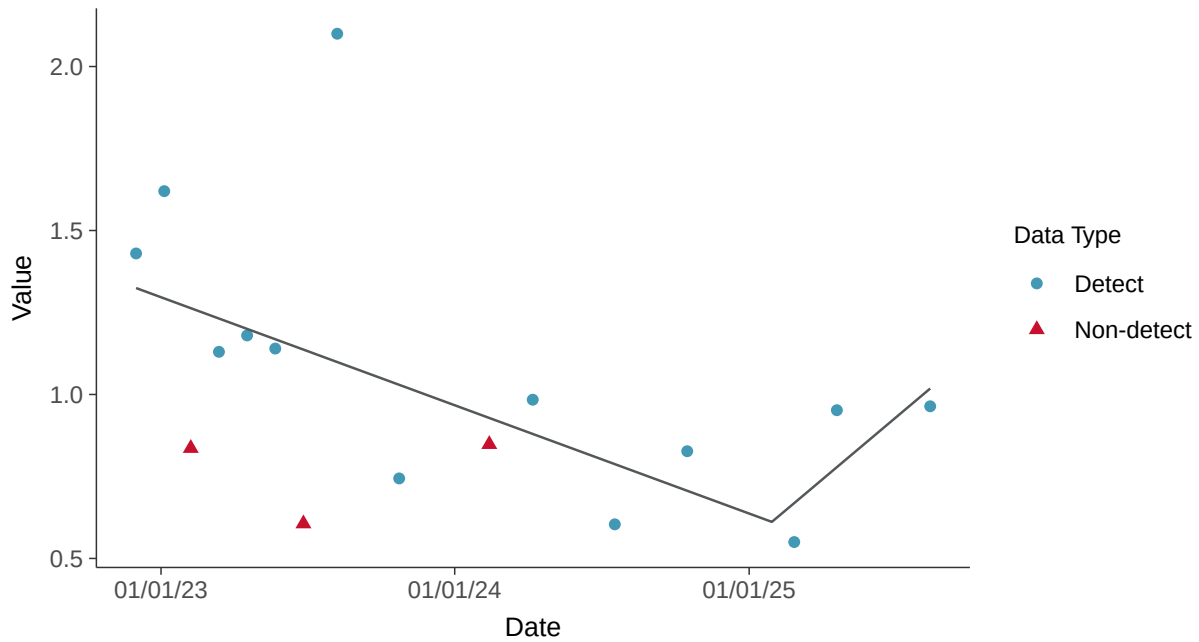
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-08 (pCi/L)



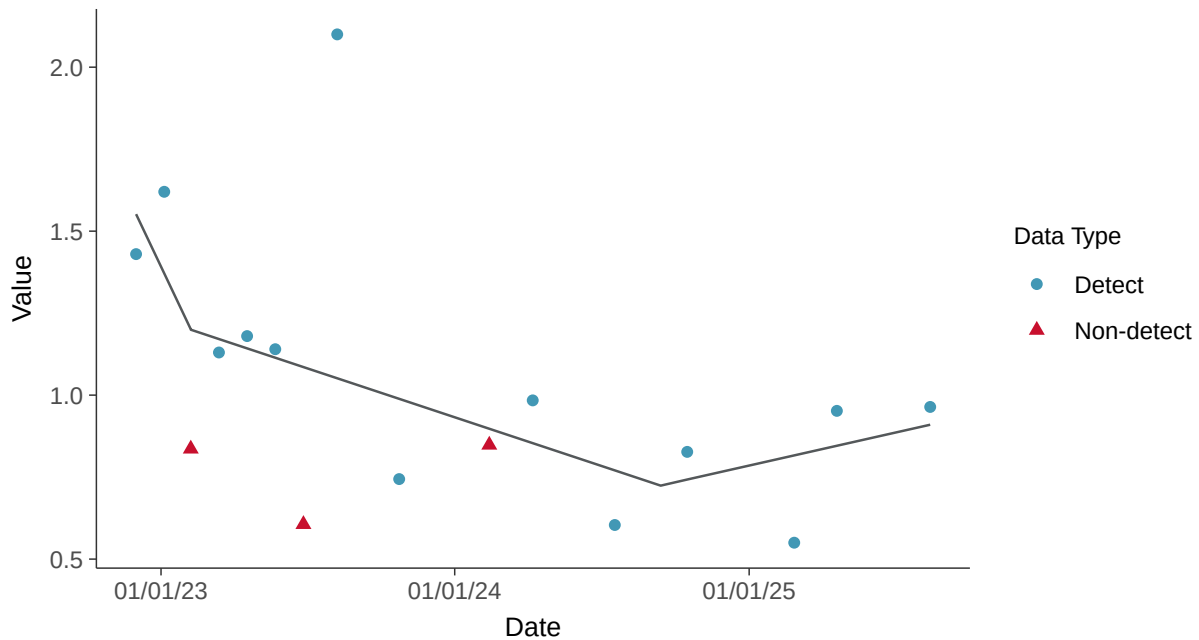
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-08 (pCi/L)



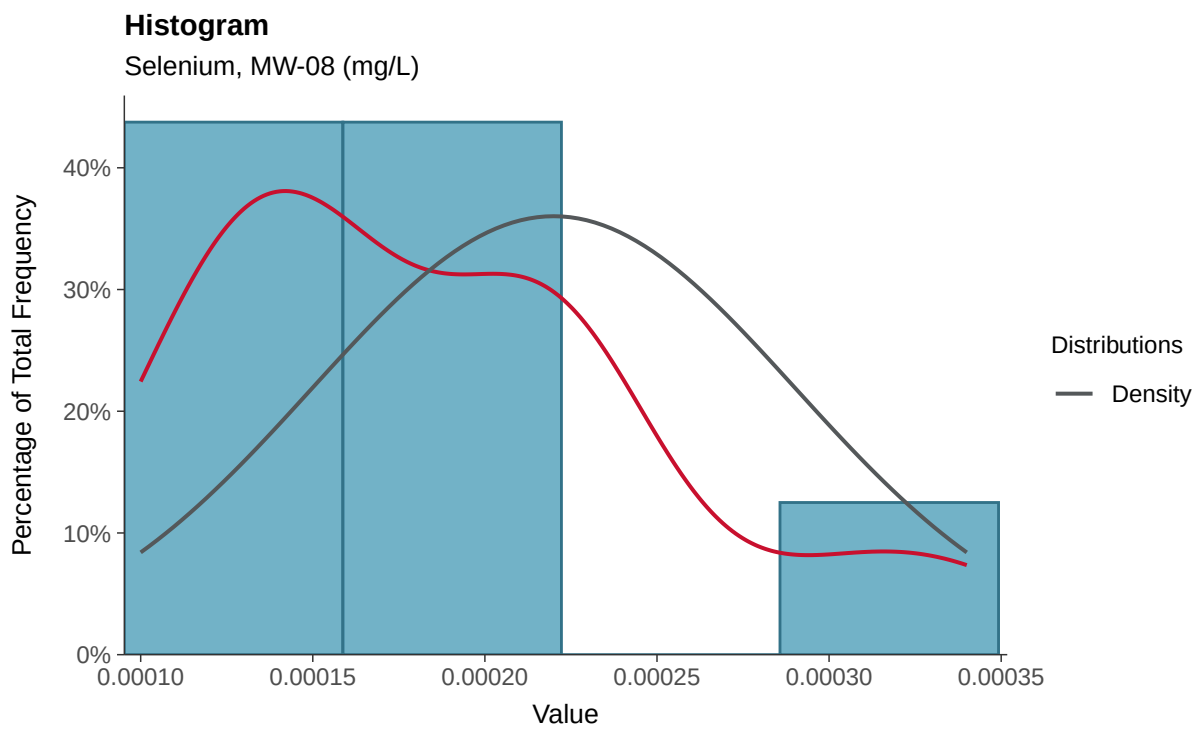
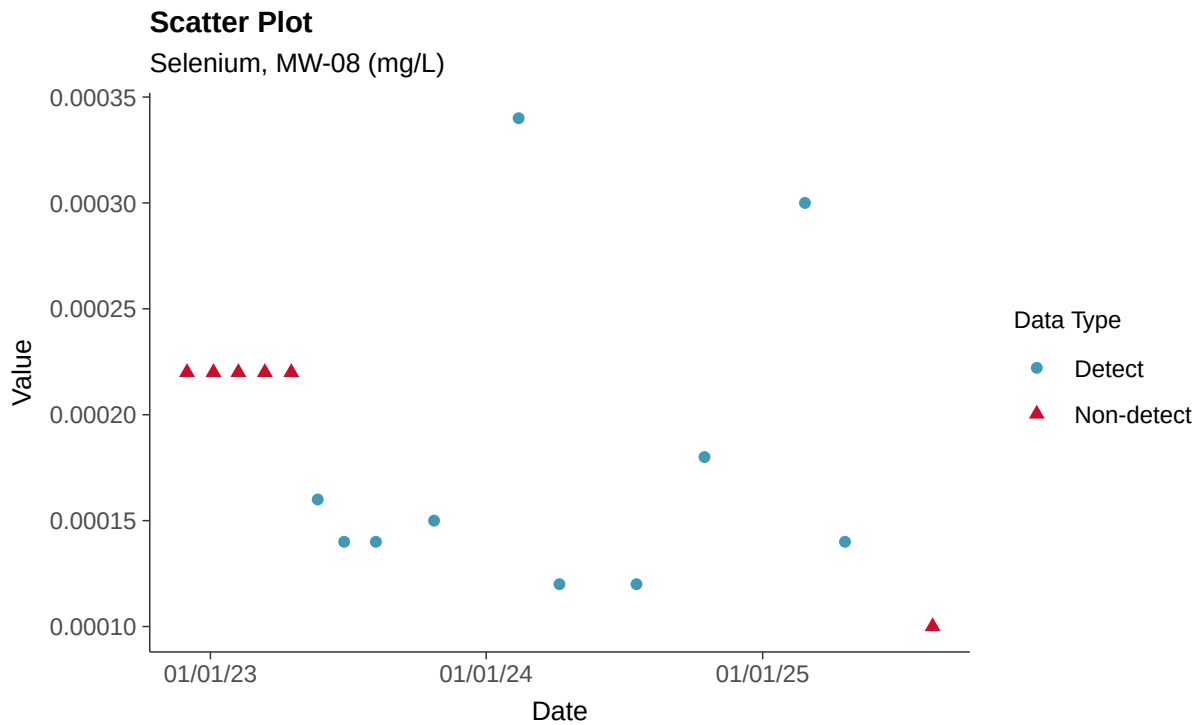
Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-08 (pCi/L)



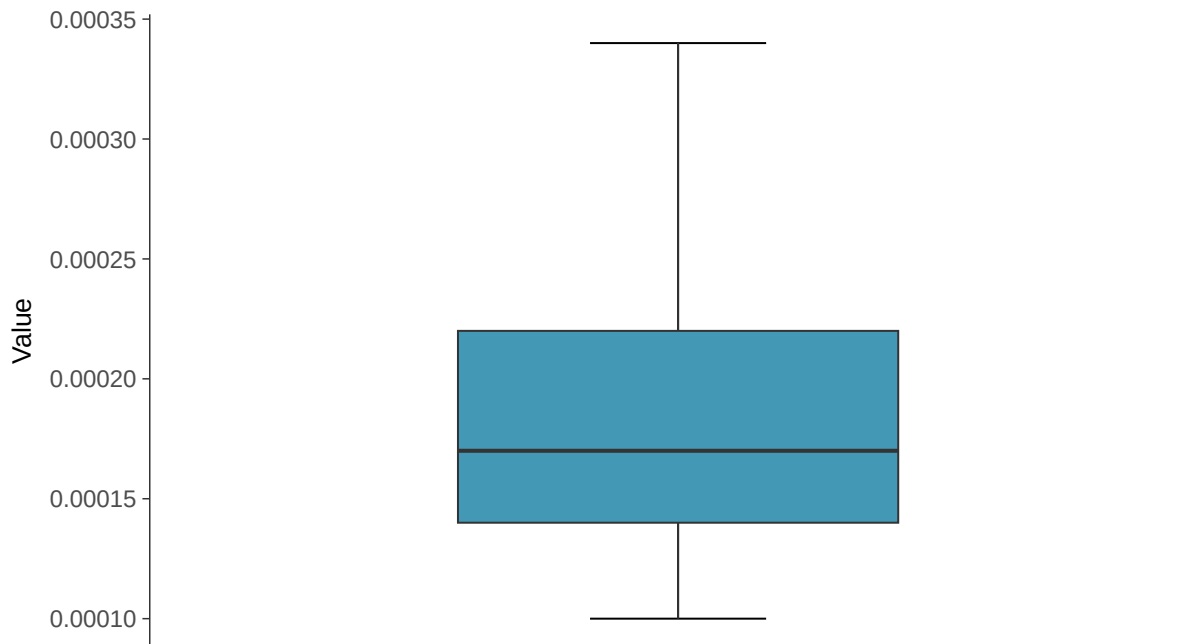
Appendix IV: Selenium, MW-08

ID: 18_1_4_122



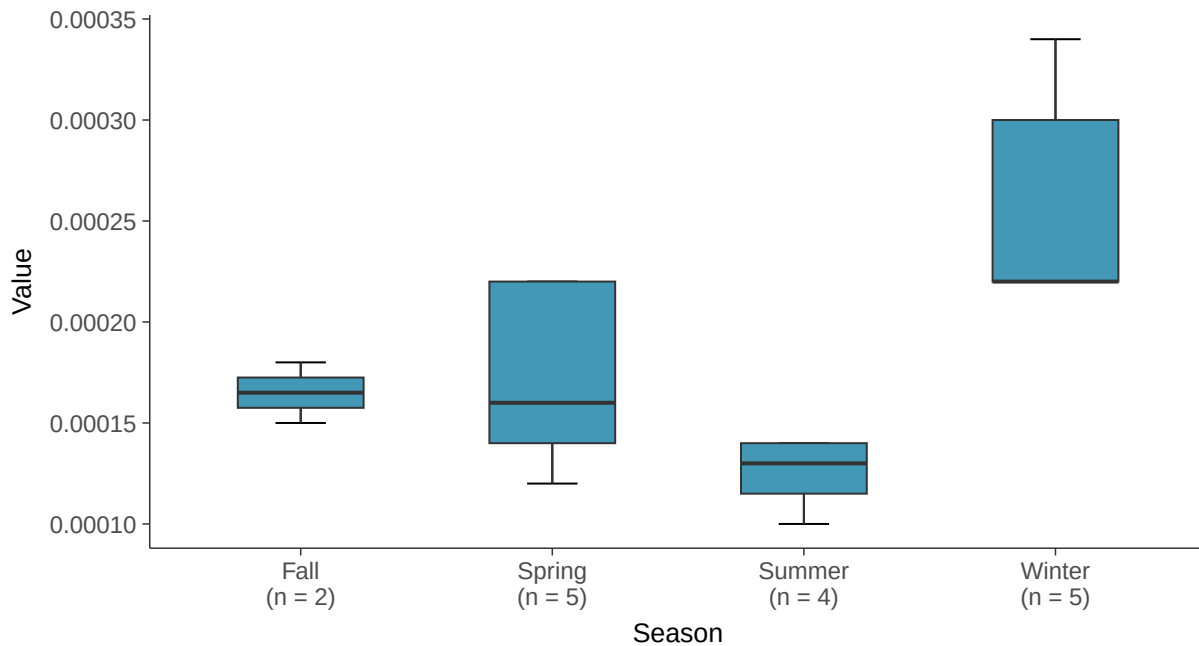
Boxplot

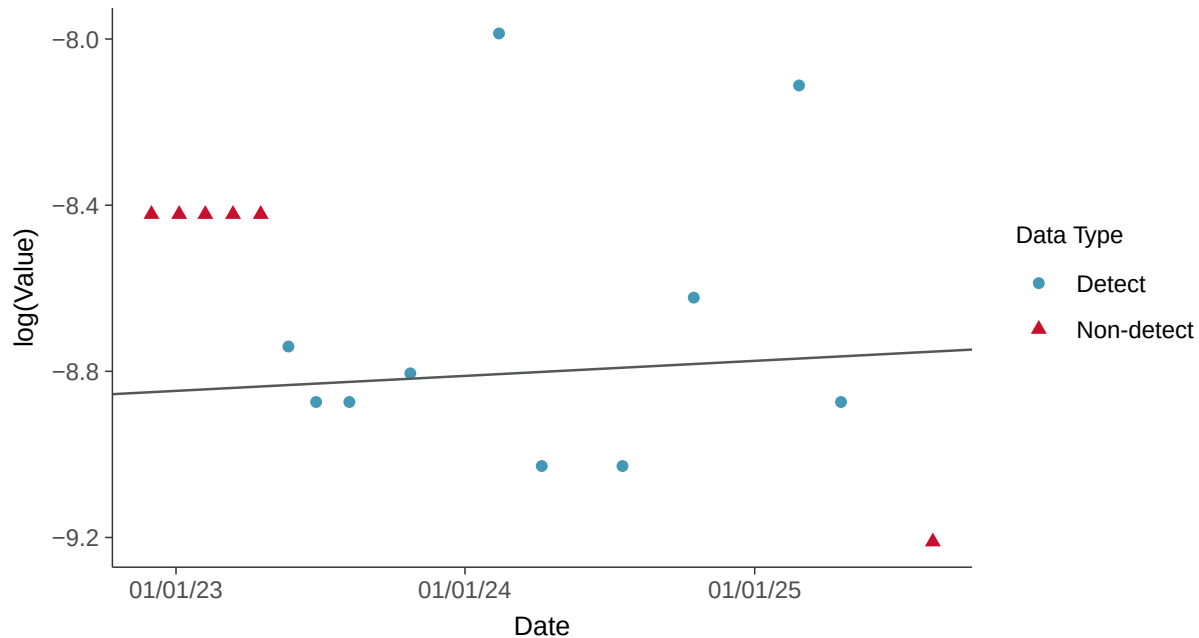
Selenium, MW-08 (mg/L)



Boxplot by Season

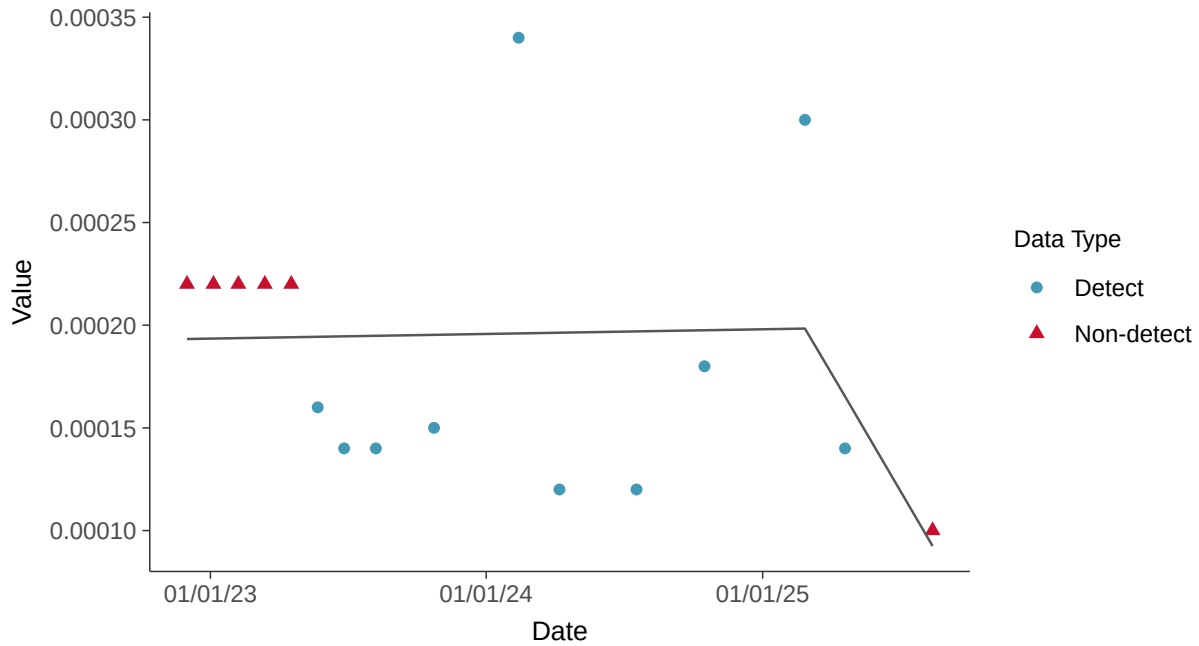
Selenium, MW-08 (mg/L)





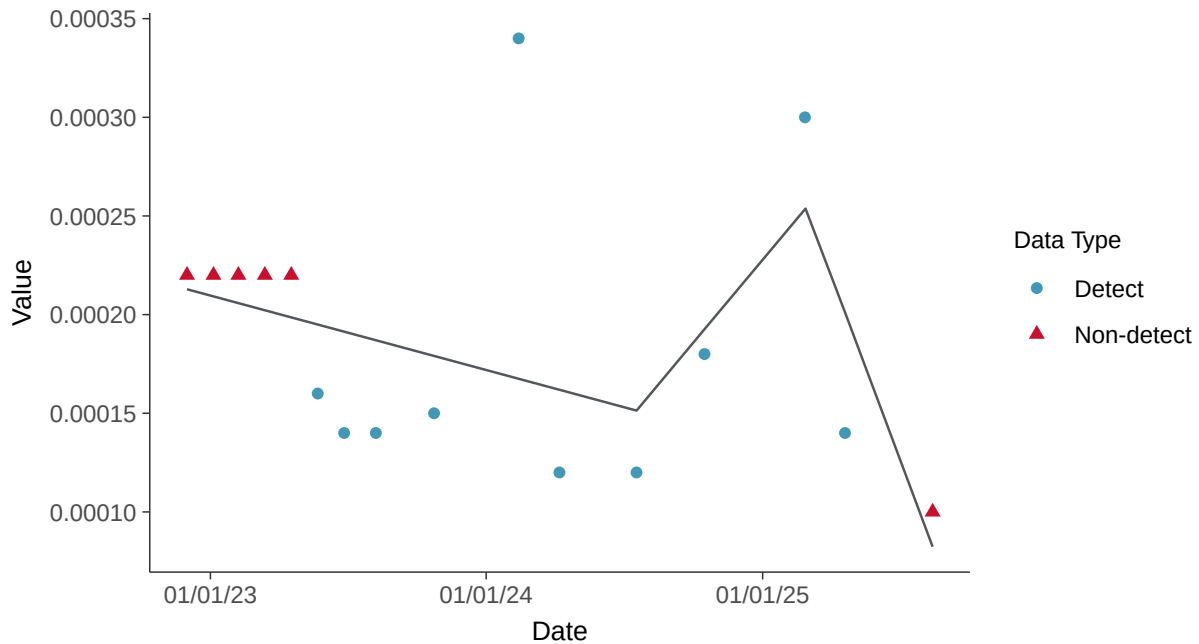
Trend Regression: Piecewise Linear-Linear

Selenium, MW-08 (mg/L)



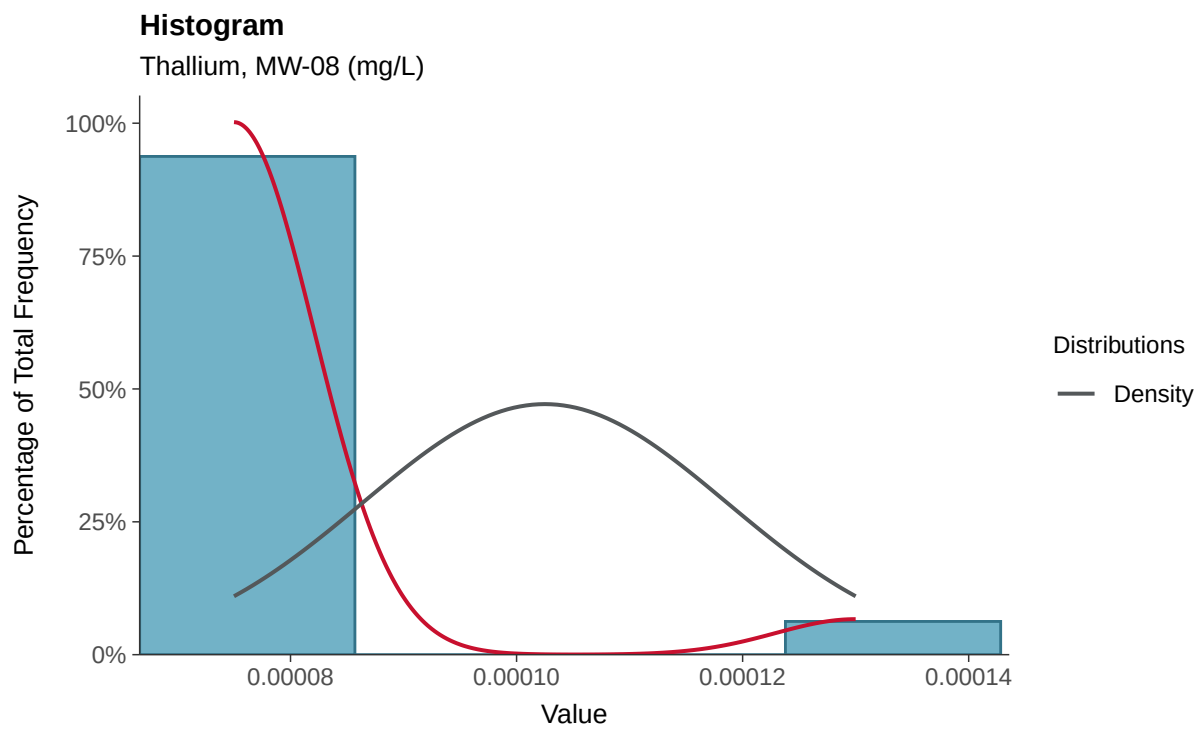
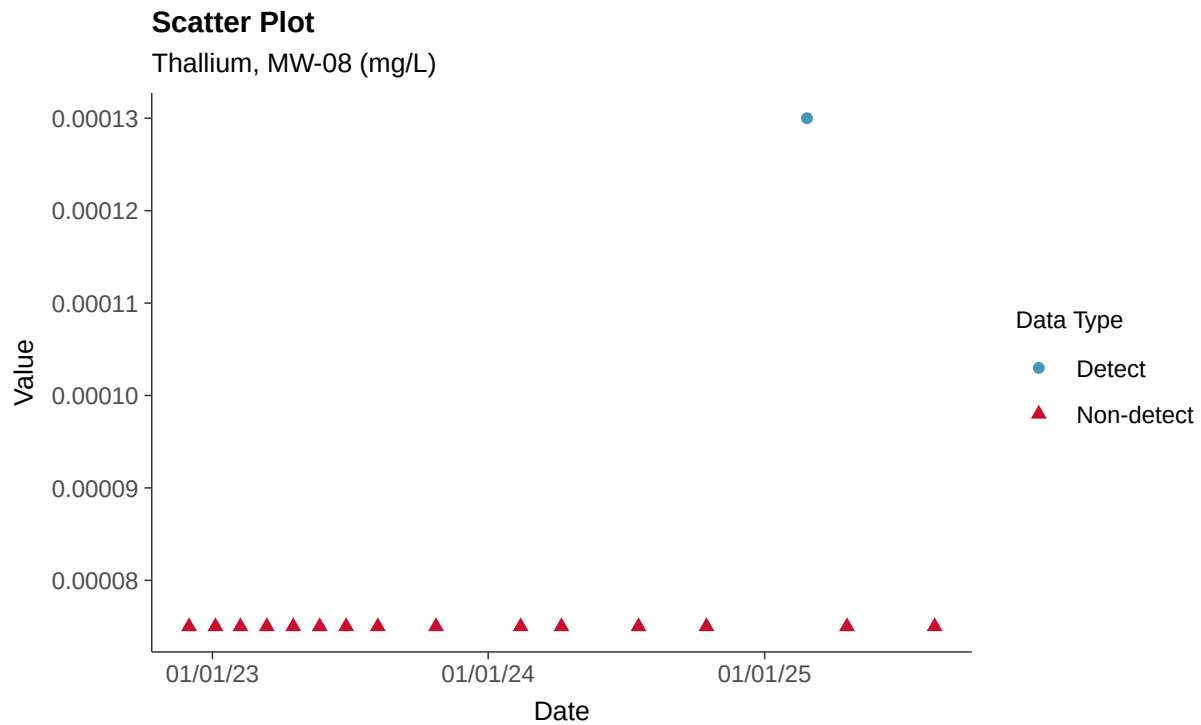
Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-08 (mg/L)



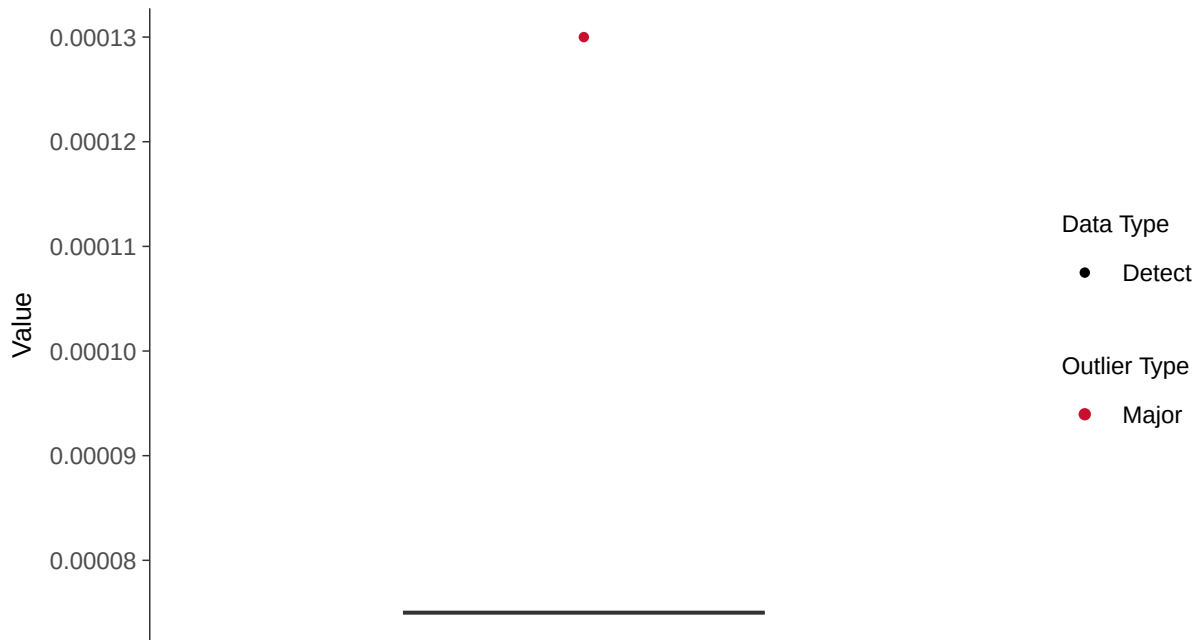
Appendix IV: Thallium, MW-08

ID: 18_1_4_125



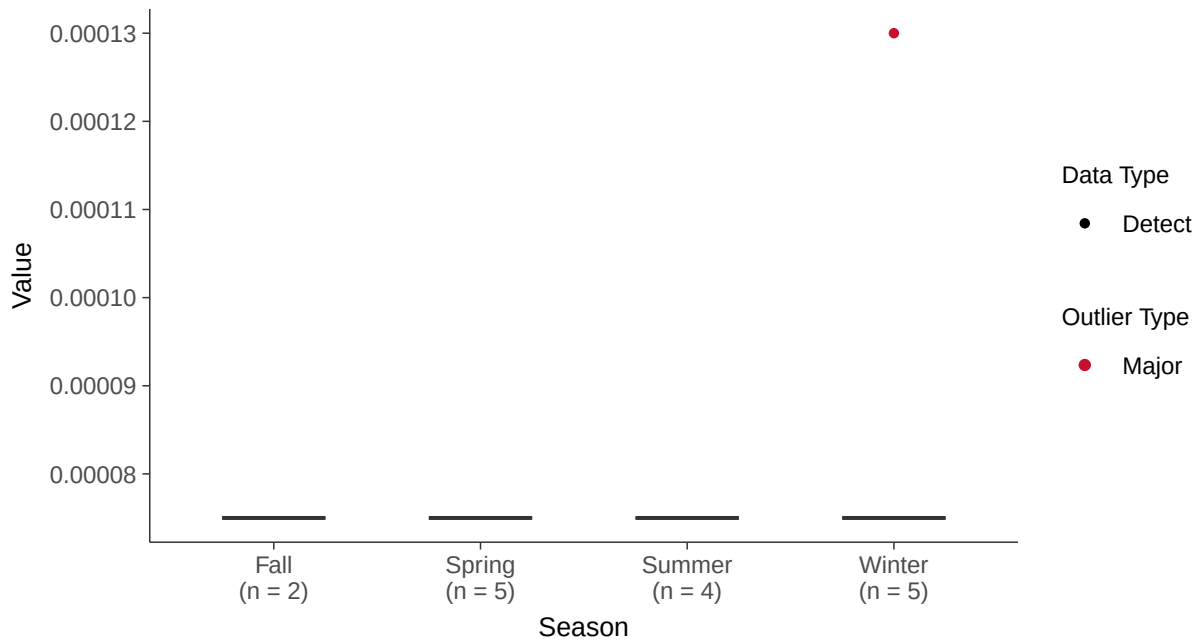
Boxplot

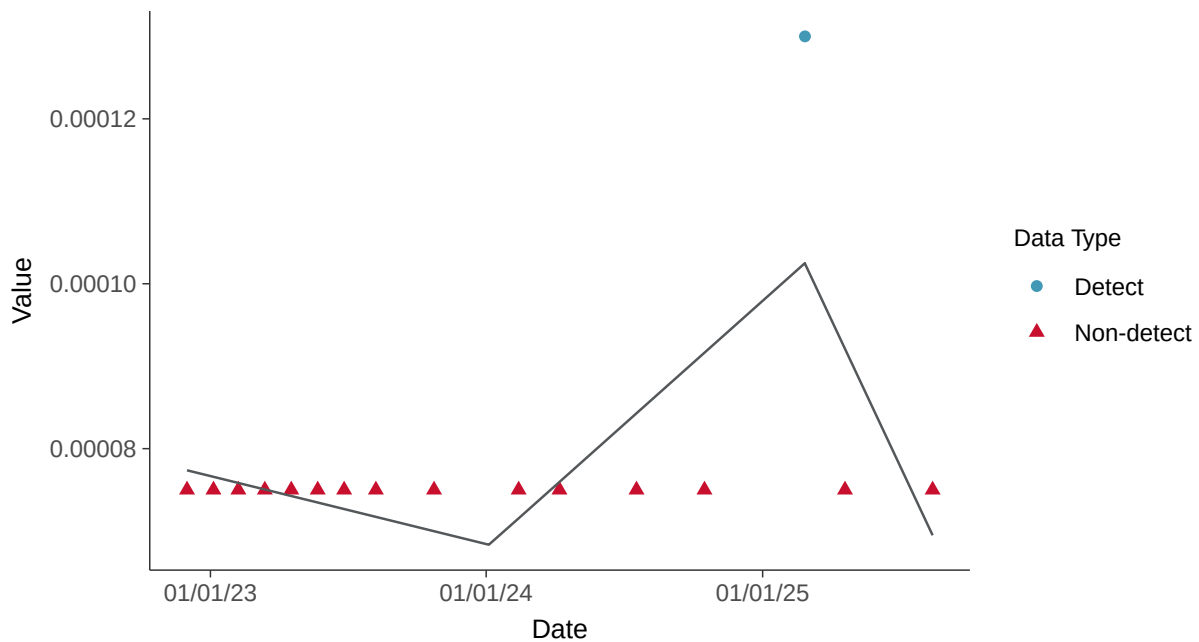
Thallium, MW-08 (mg/L)



Boxplot by Season

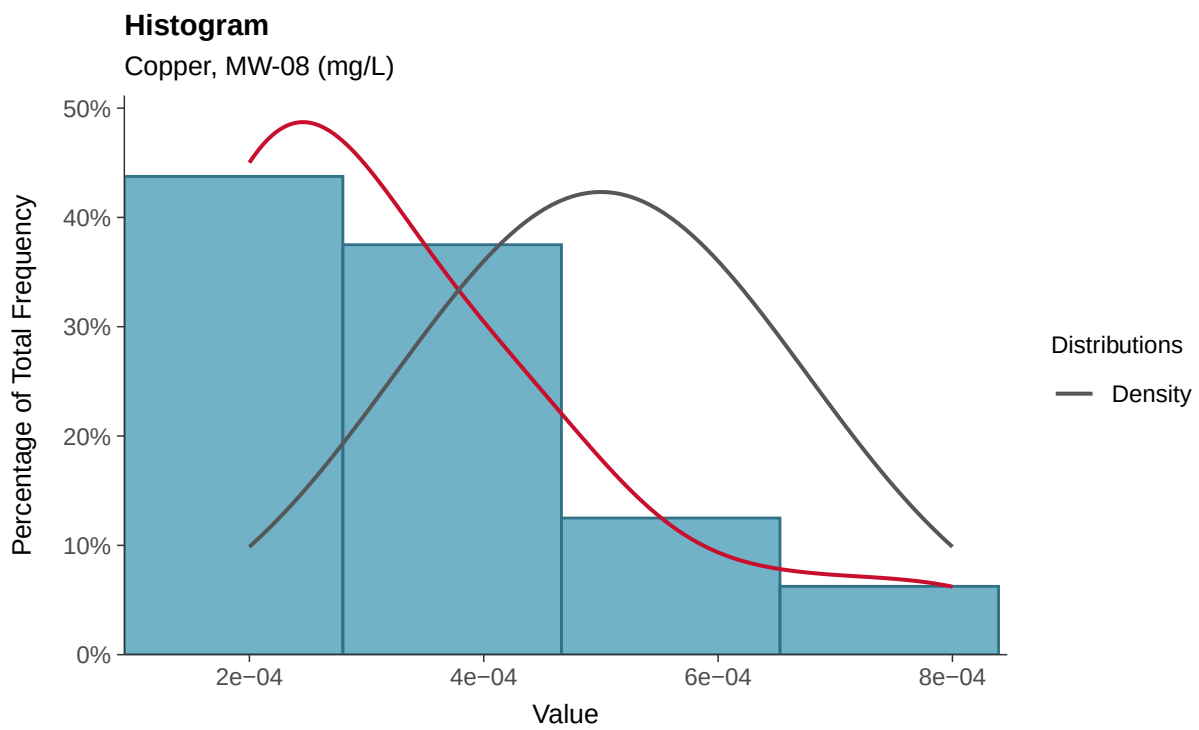
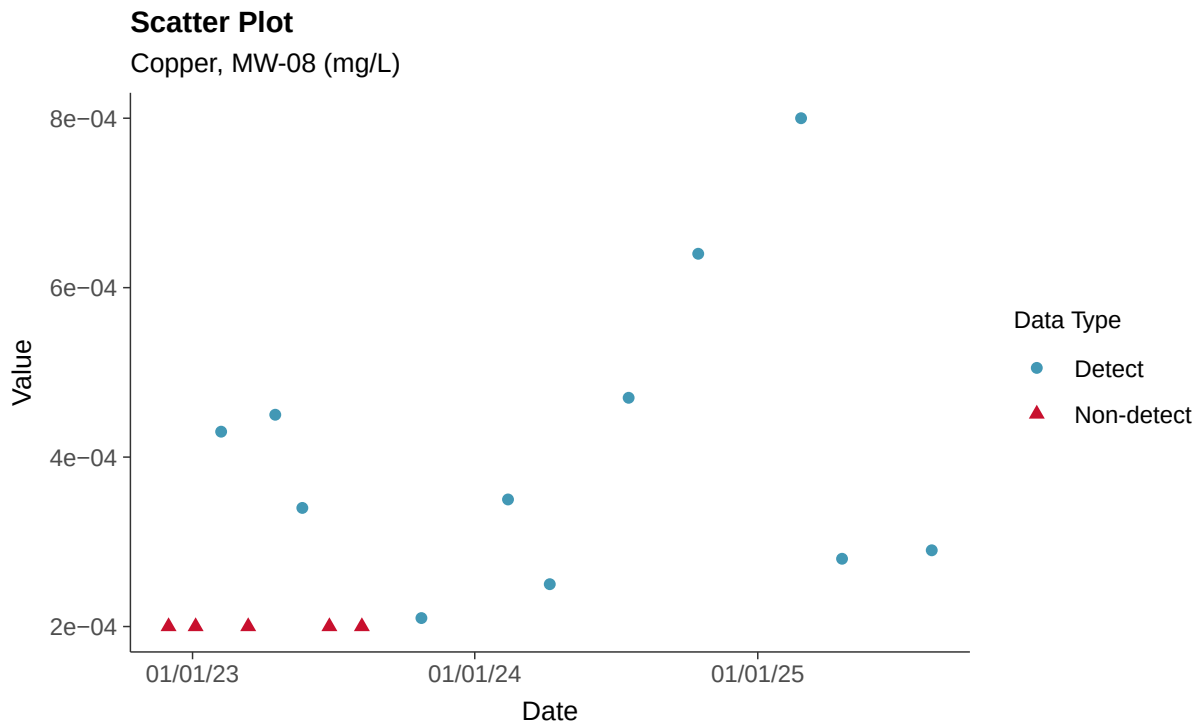
Thallium, MW-08 (mg/L)





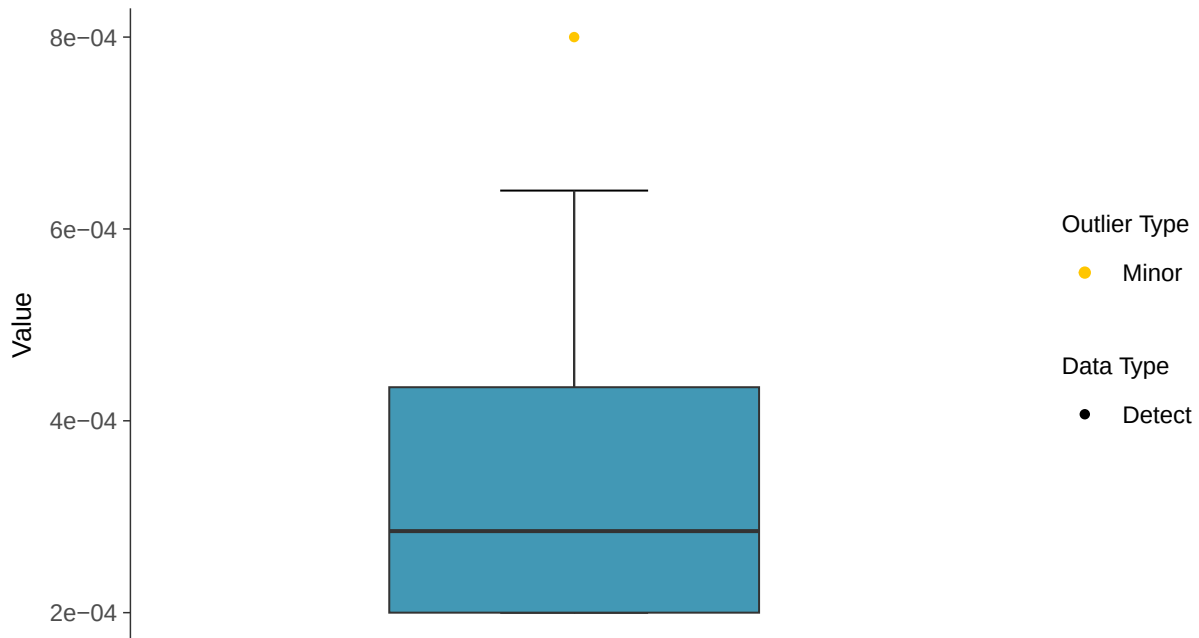
Part 115: Copper, MW-08

ID: 18_1_5_111



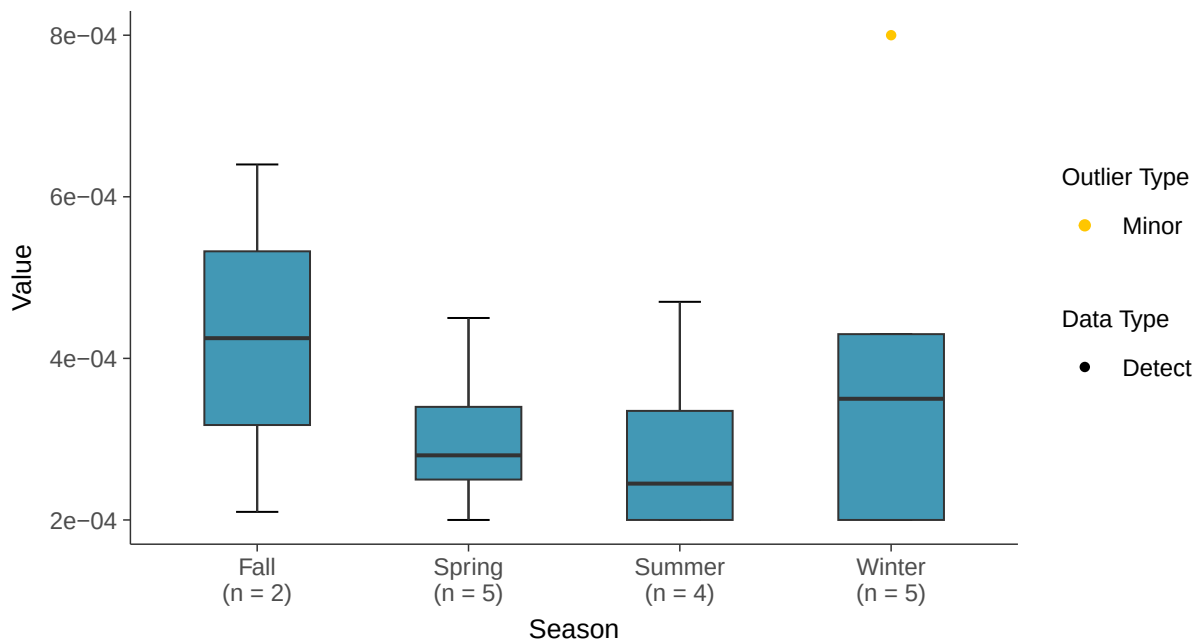
Boxplot

Copper, MW-08 (mg/L)



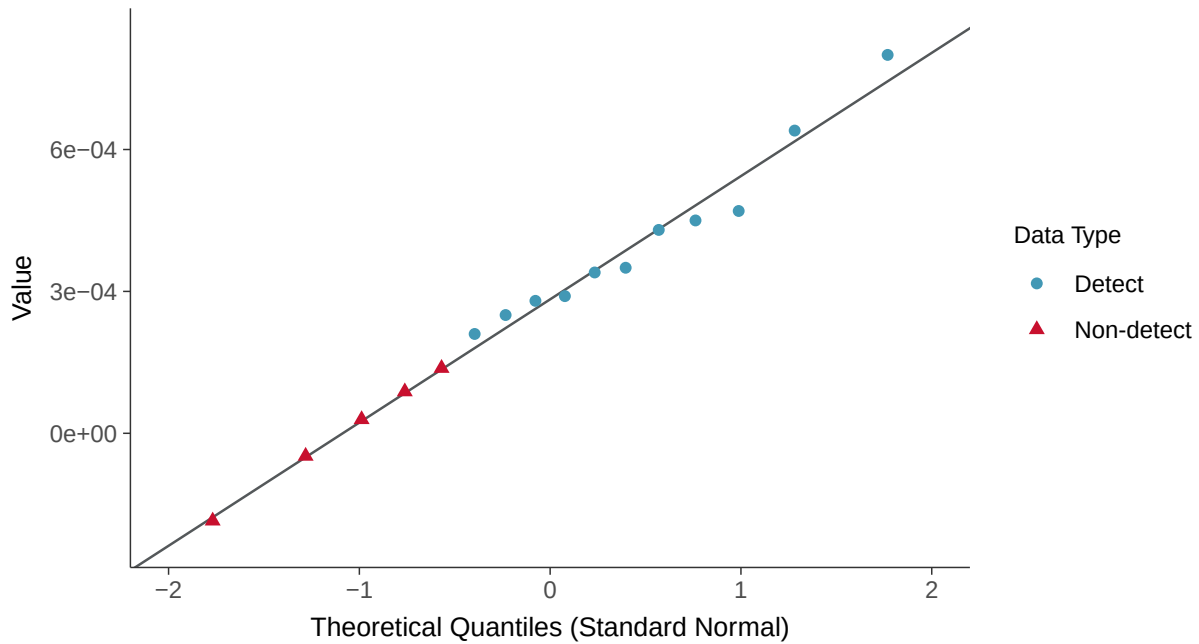
Boxplot by Season

Copper, MW-08 (mg/L)



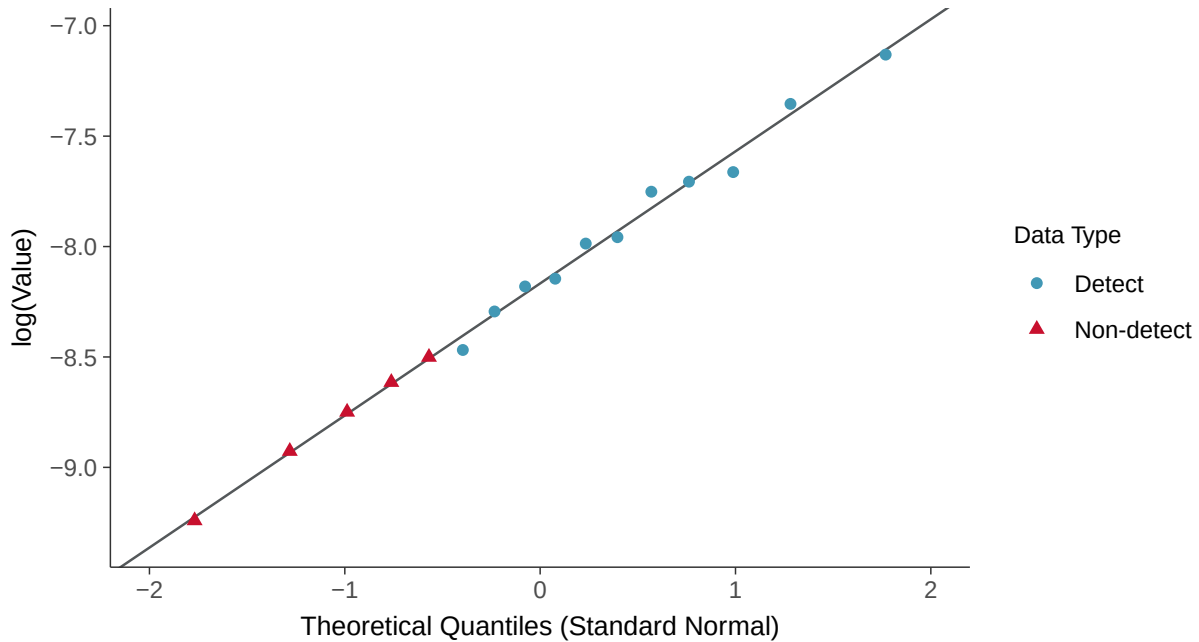
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)

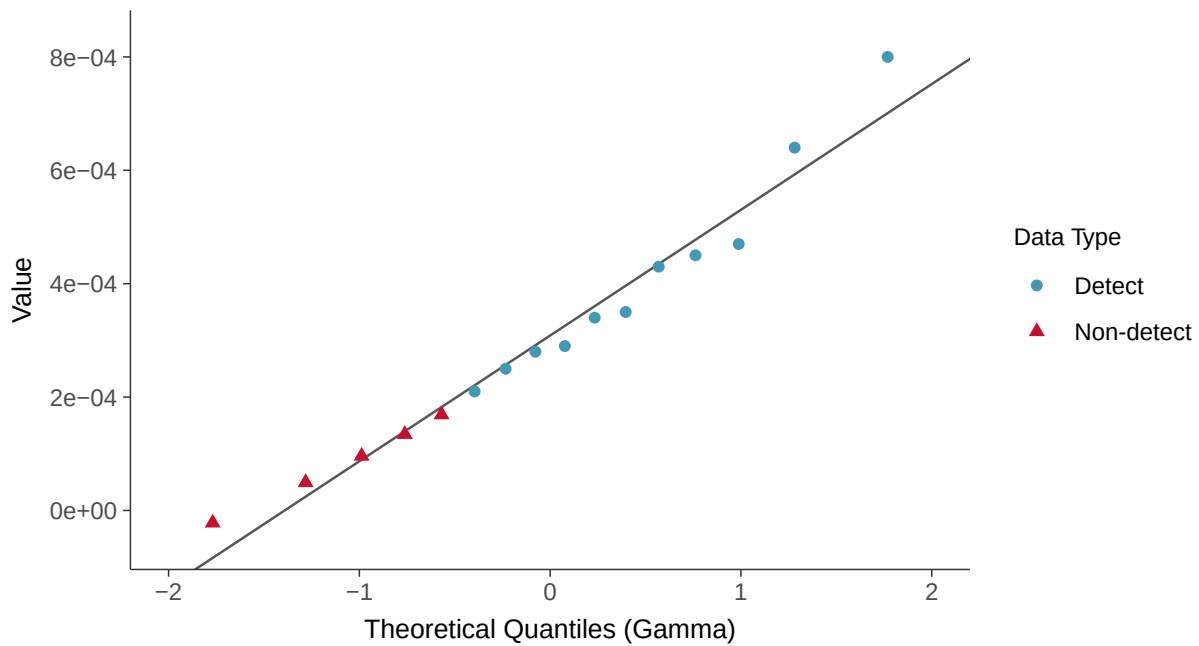


Lognormal Q-Q plot using ROS Imputed Estimates

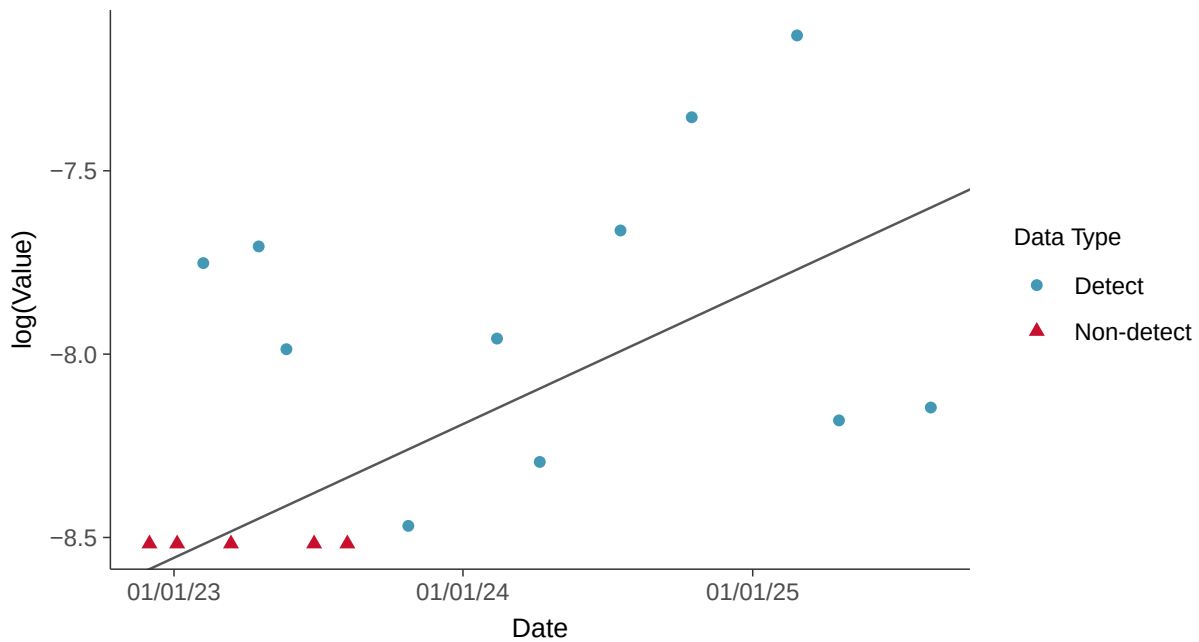
Copper, MW-08 (mg/L)



Copper, MW-08 (mg/L)

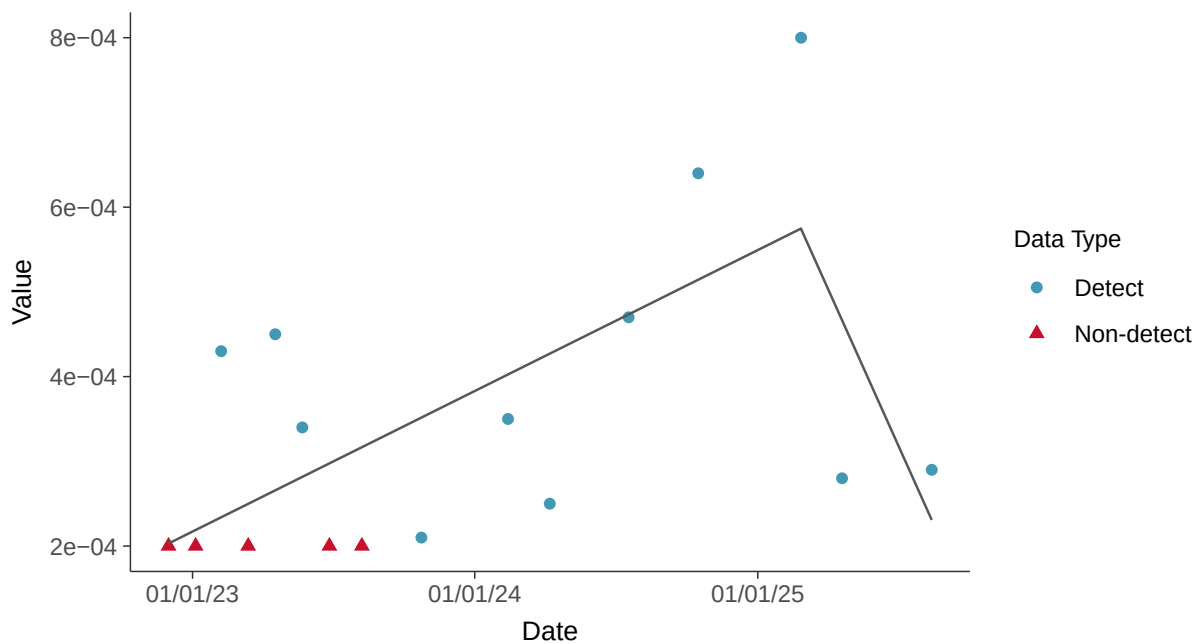


Copper, MW-08 (mg/L)



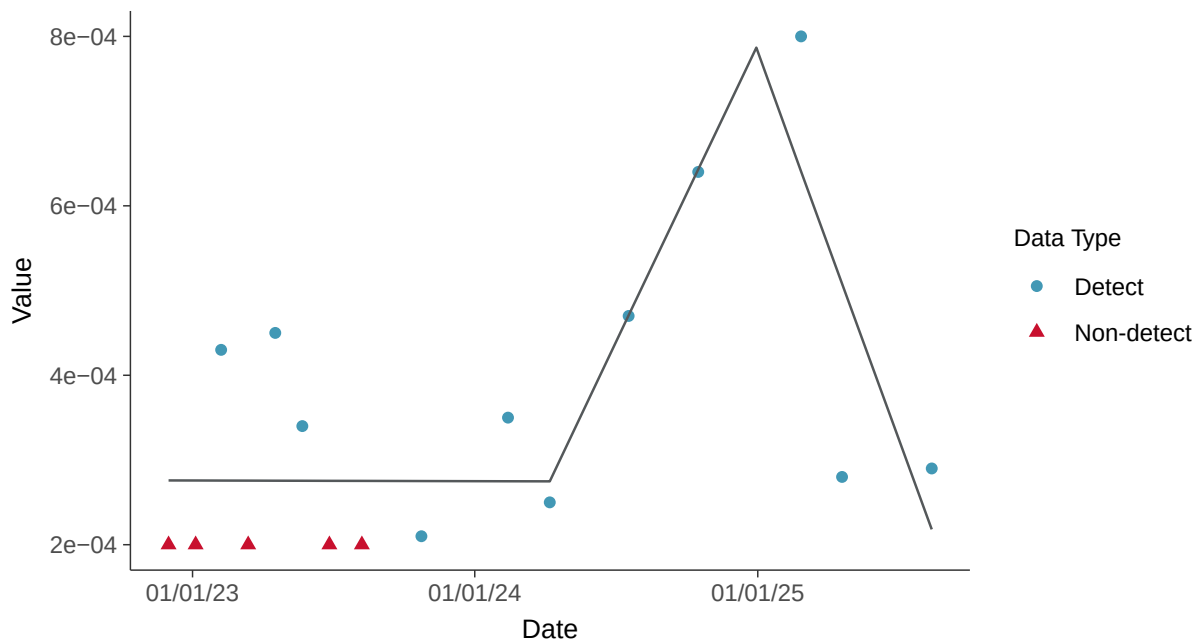
Trend Regression: Piecewise Linear-Linear

Copper, MW-08 (mg/L)



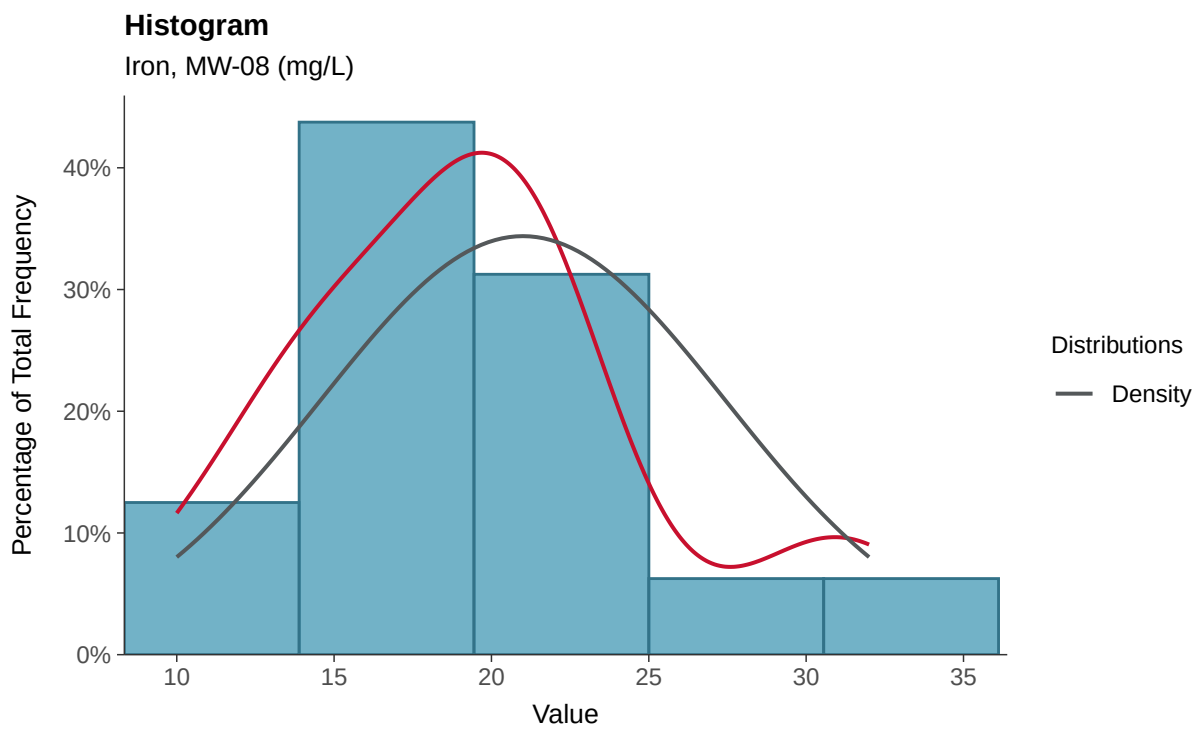
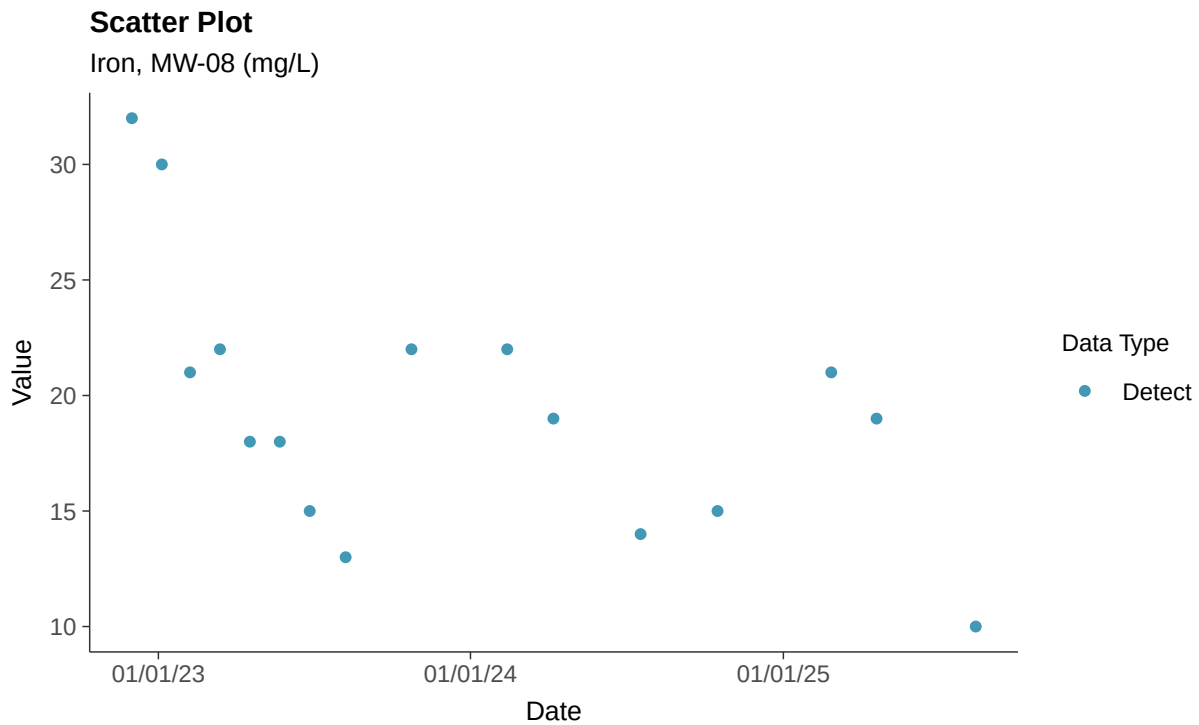
Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-08 (mg/L)



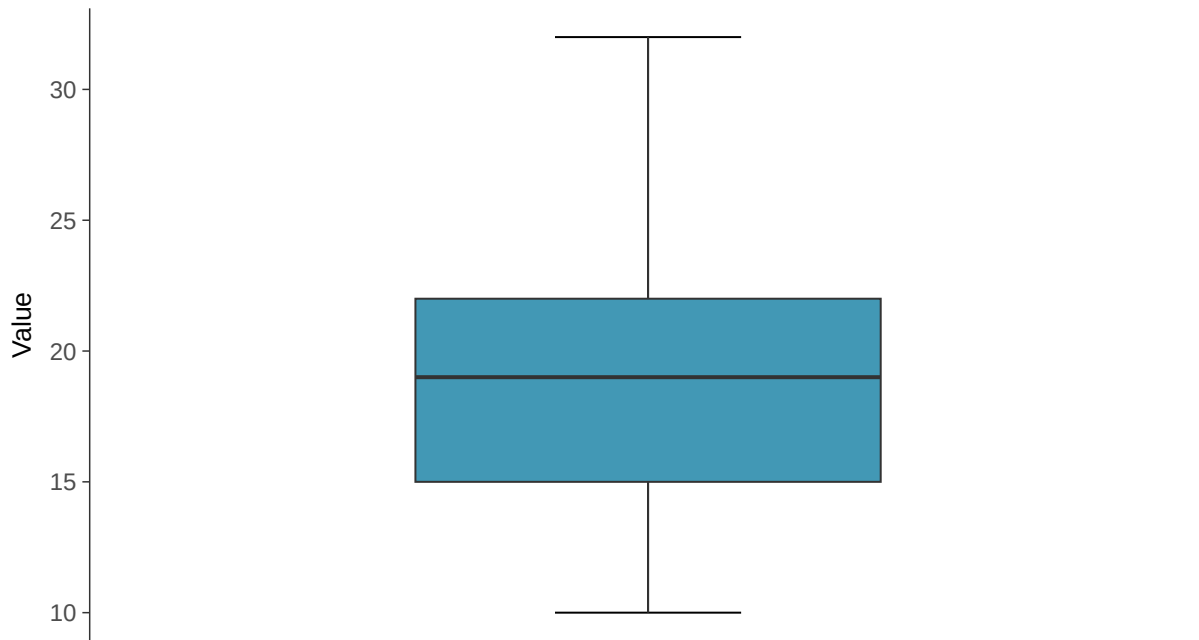
Part 115: Iron, MW-08

ID: 18_1_5_114



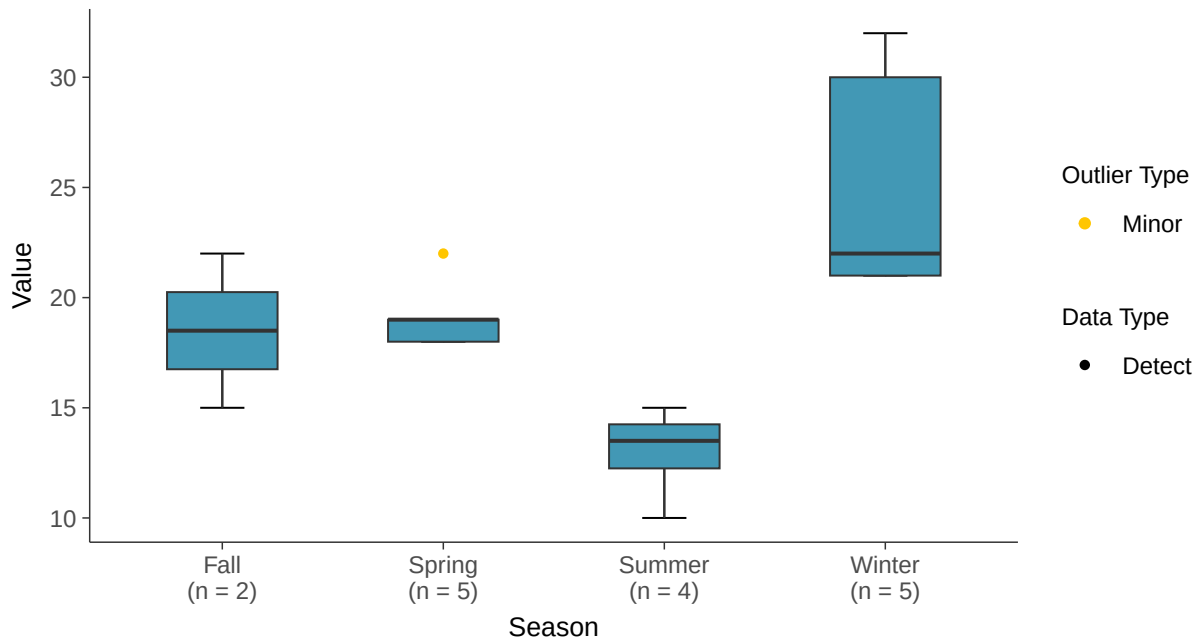
Boxplot

Iron, MW-08 (mg/L)



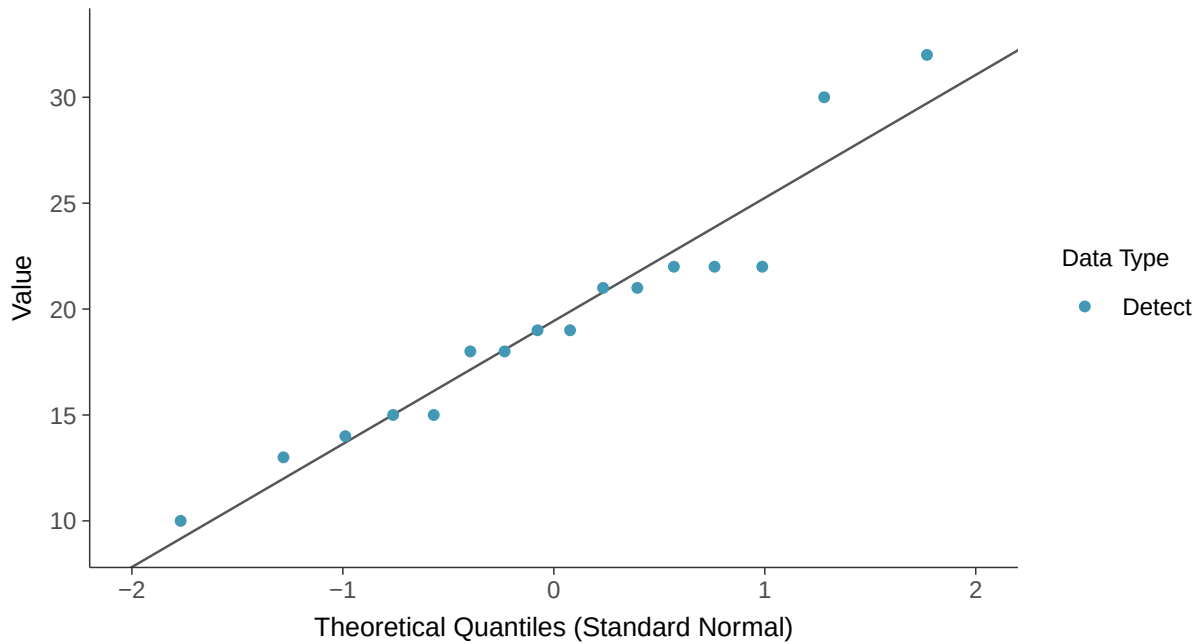
Boxplot by Season

Iron, MW-08 (mg/L)



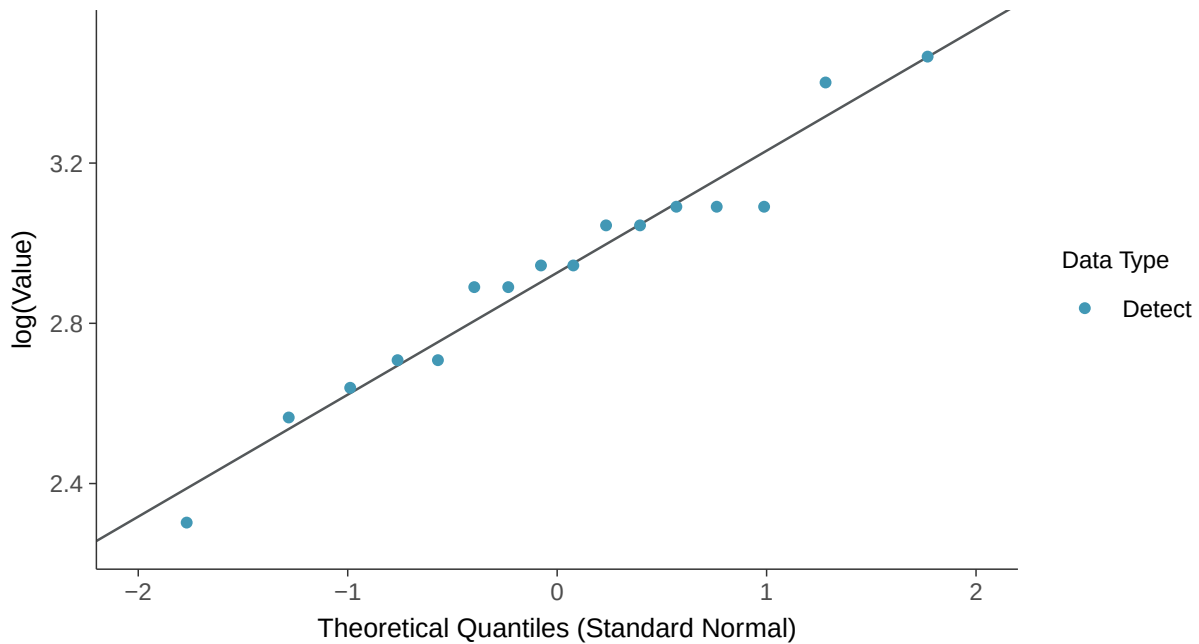
Normal Q-Q plot

Iron, MW-08 (mg/L)



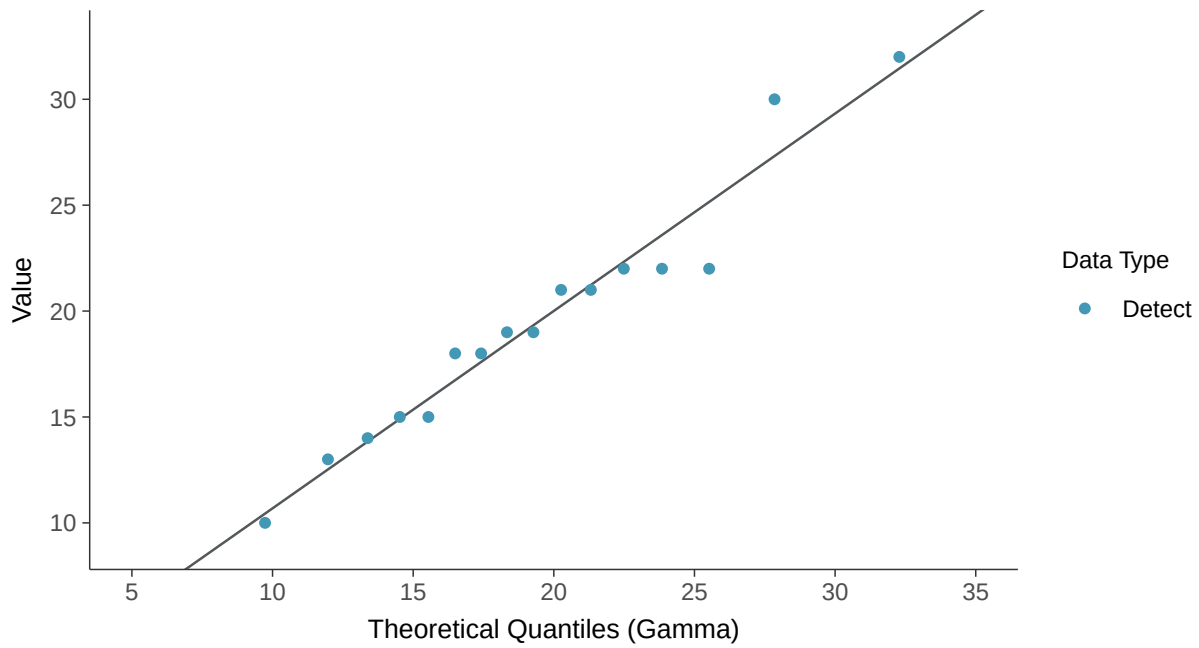
Lognormal Q-Q plot

Iron, MW-08 (mg/L)



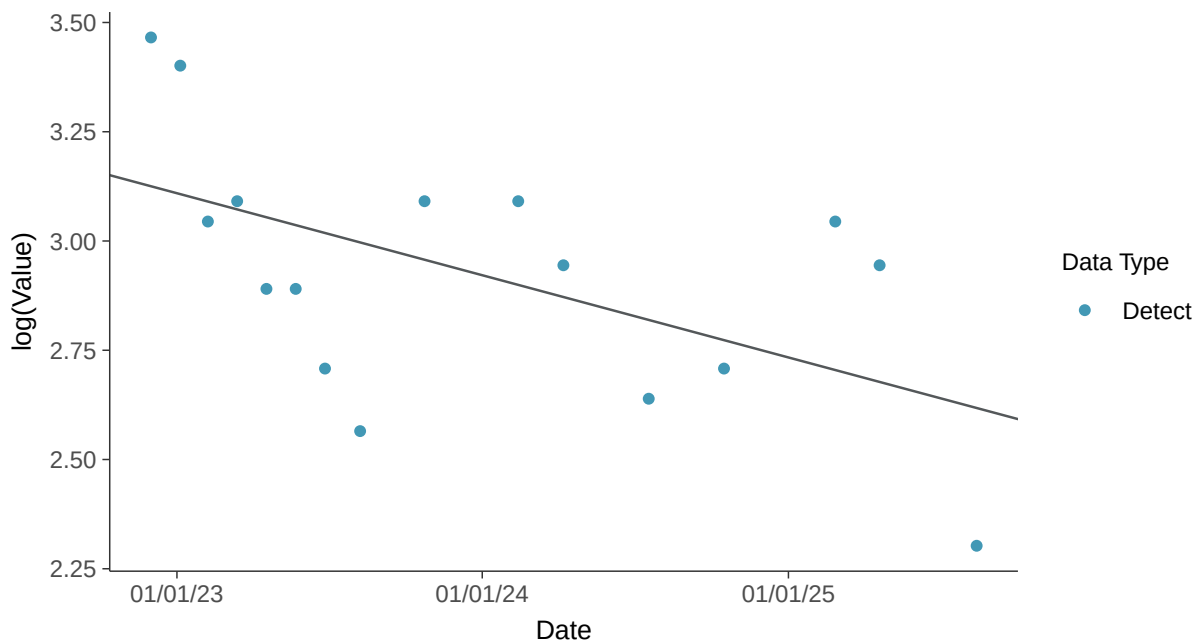
Gamma Q-Q plot

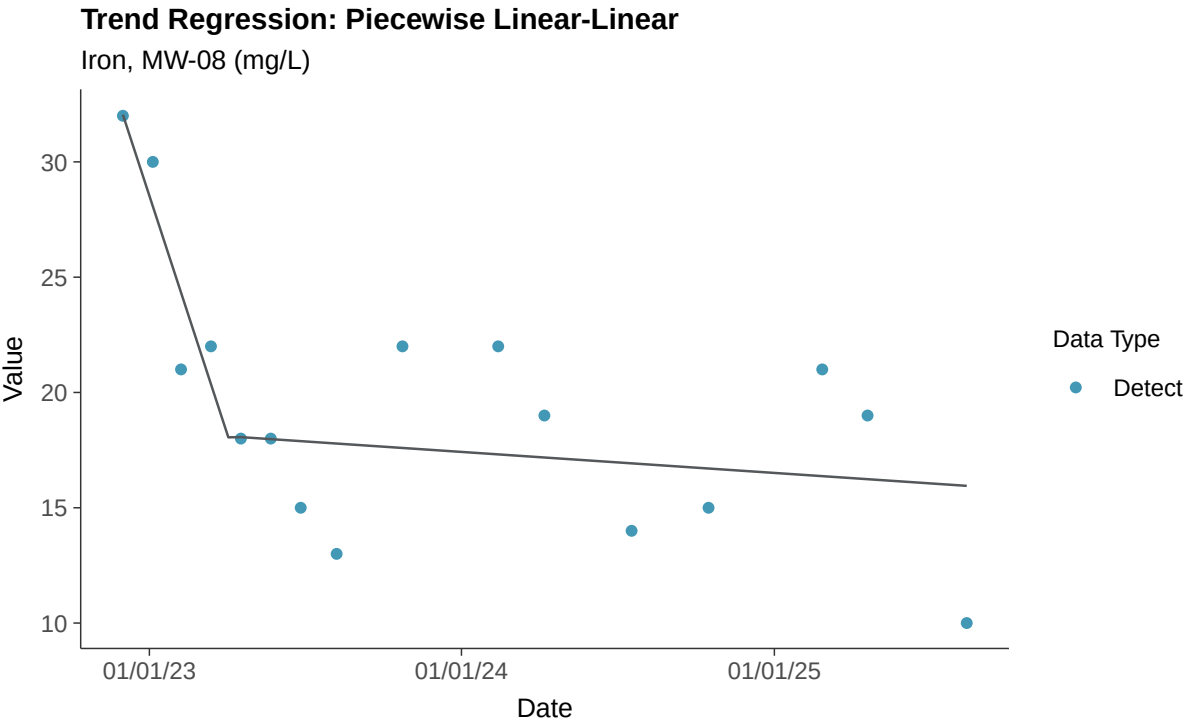
Iron, MW-08 (mg/L)



Trend Regression: Lognormal MLE

Iron, MW-08 (mg/L)



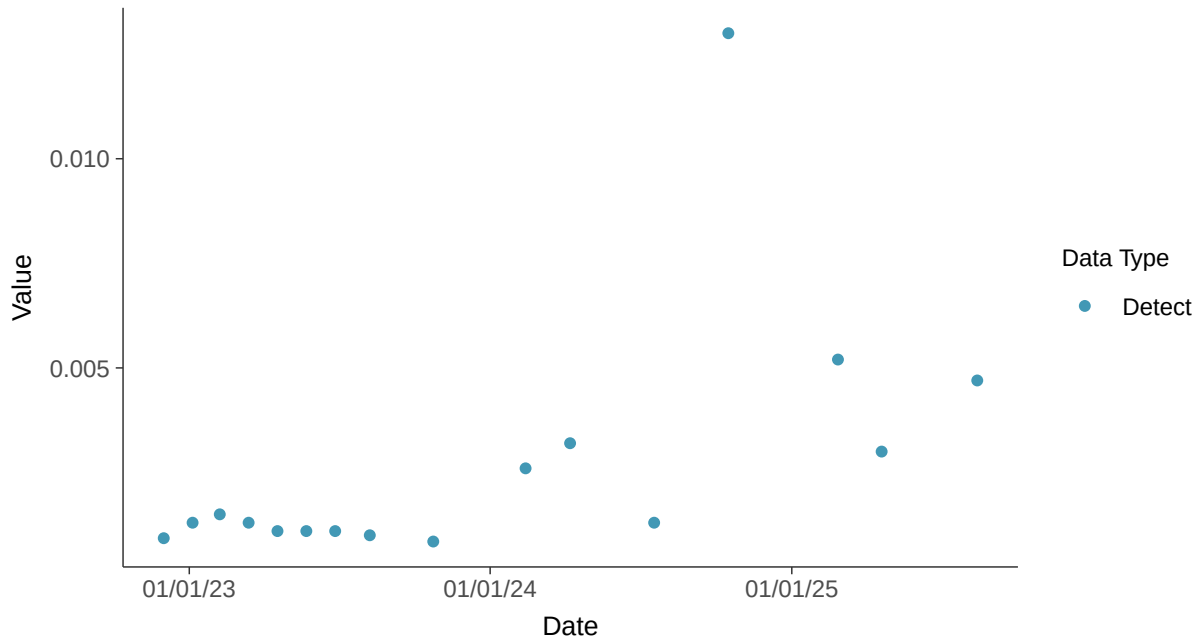


Part 115: Nickel, MW-08

ID: 18_1_5_119

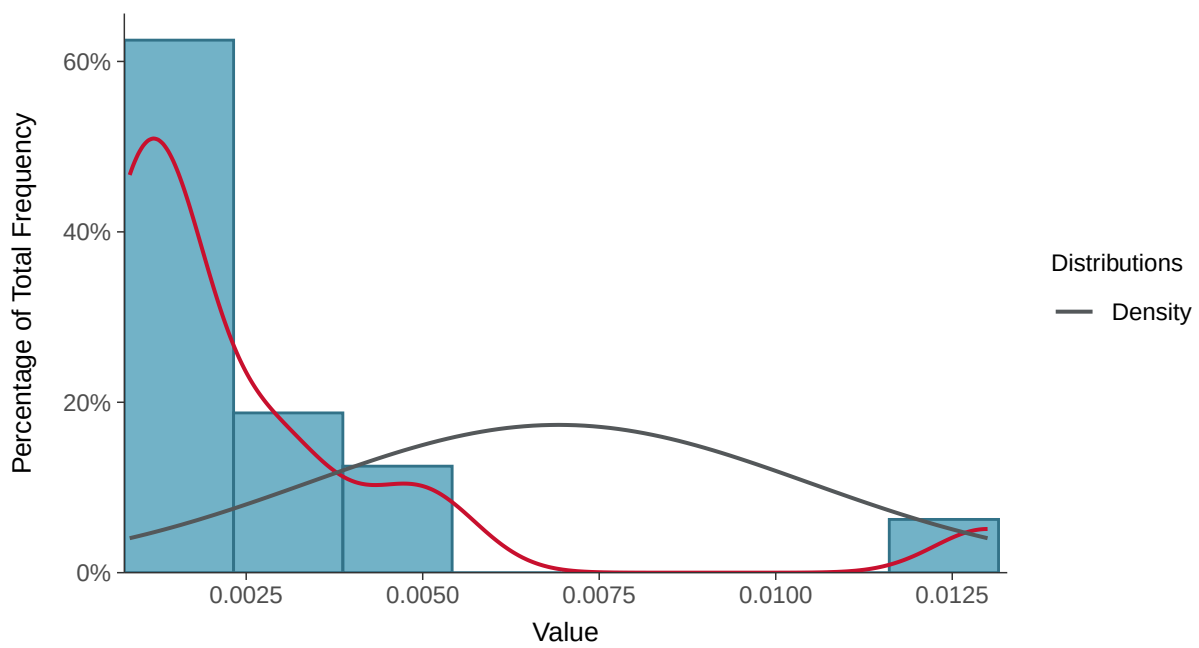
Scatter Plot

Nickel, MW-08 (mg/L)



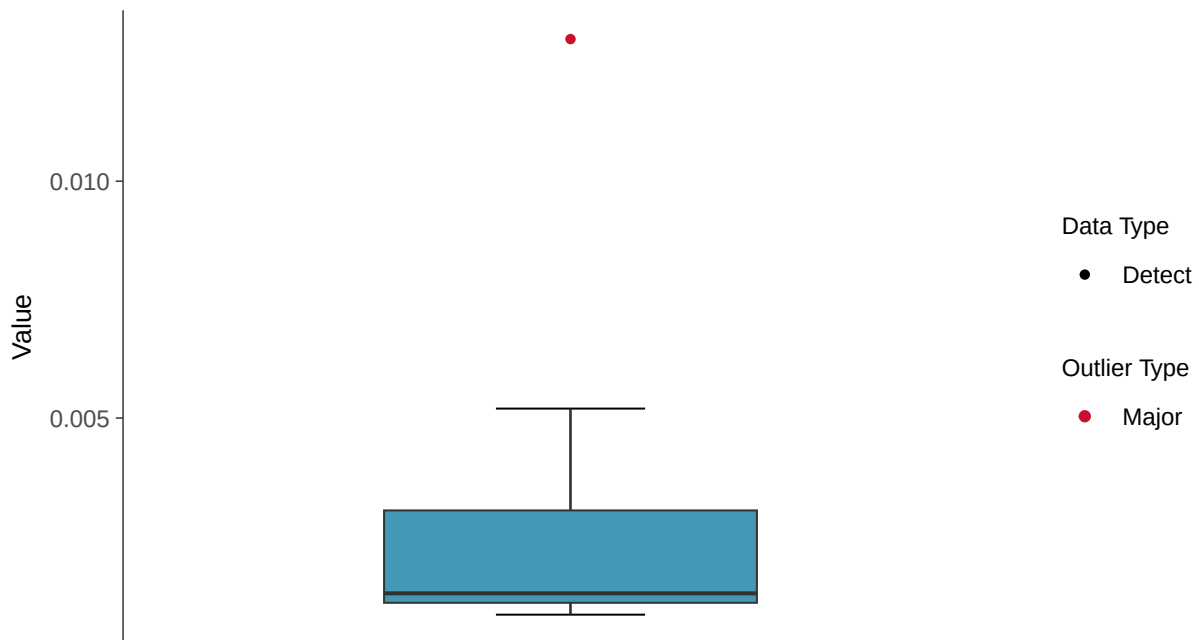
Histogram

Nickel, MW-08 (mg/L)



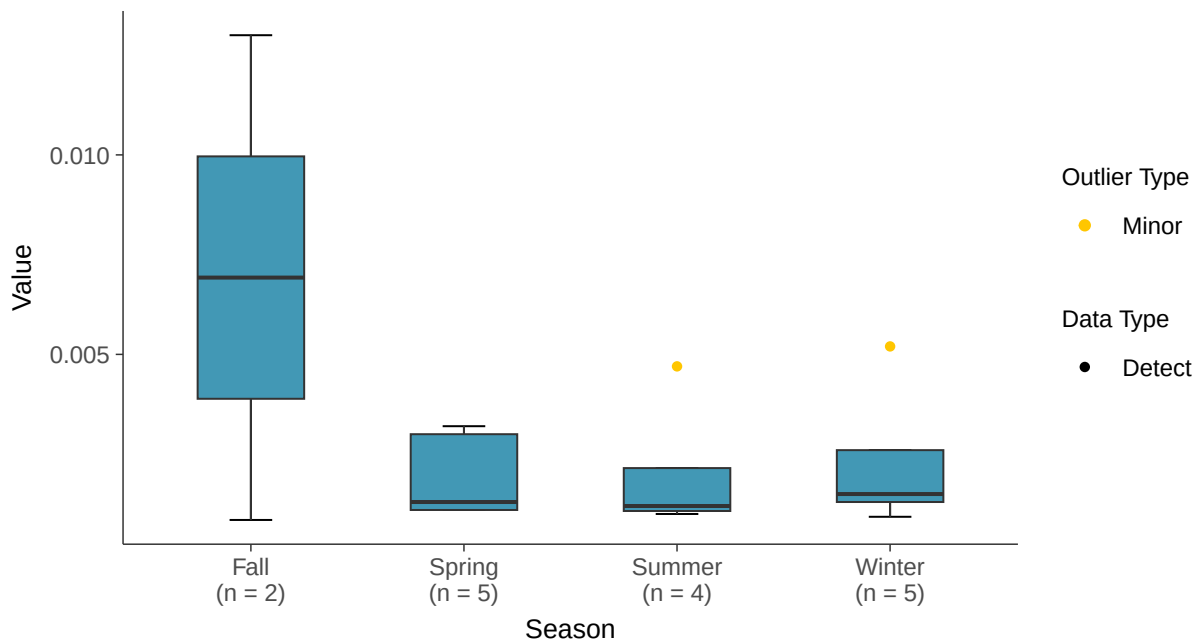
Boxplot

Nickel, MW-08 (mg/L)



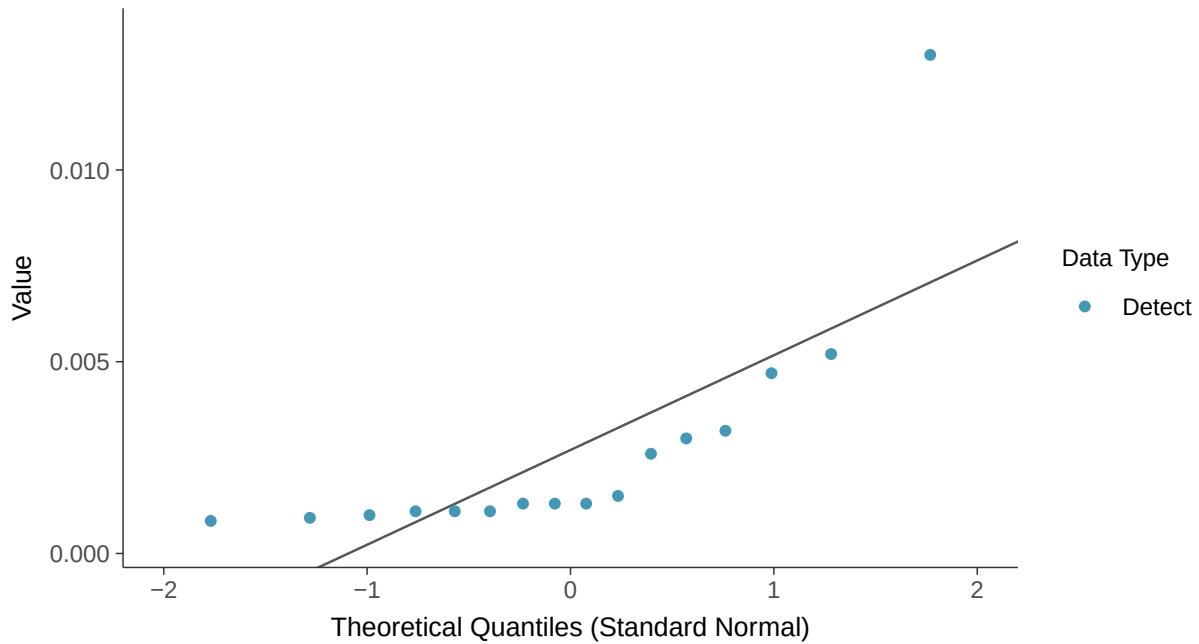
Boxplot by Season

Nickel, MW-08 (mg/L)



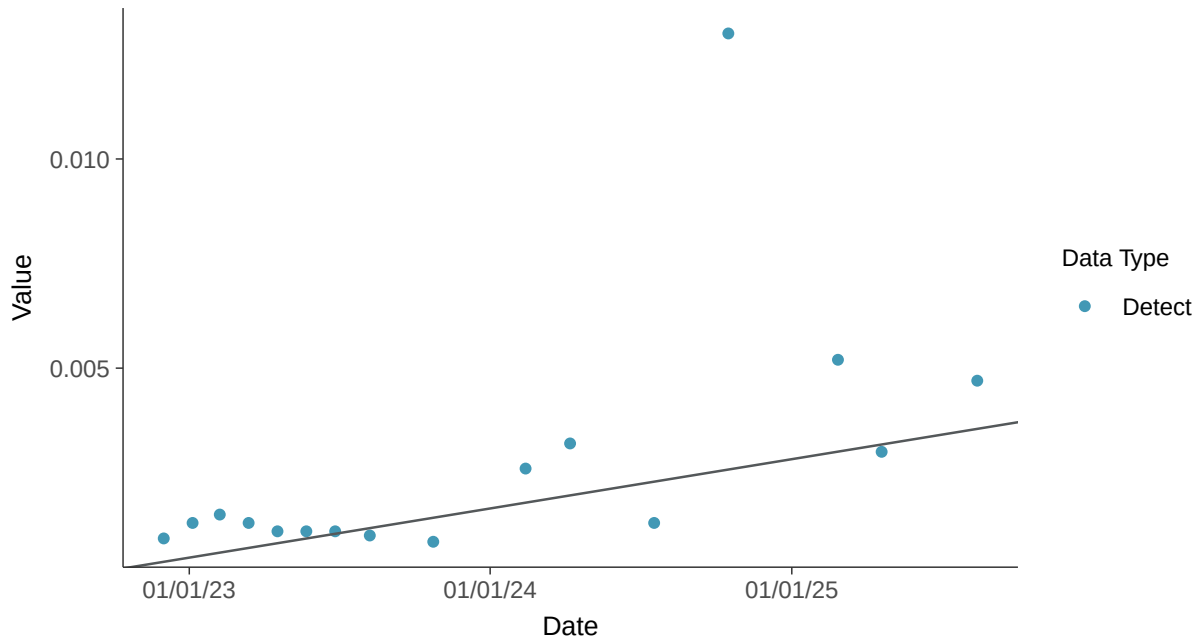
Normal Q-Q plot

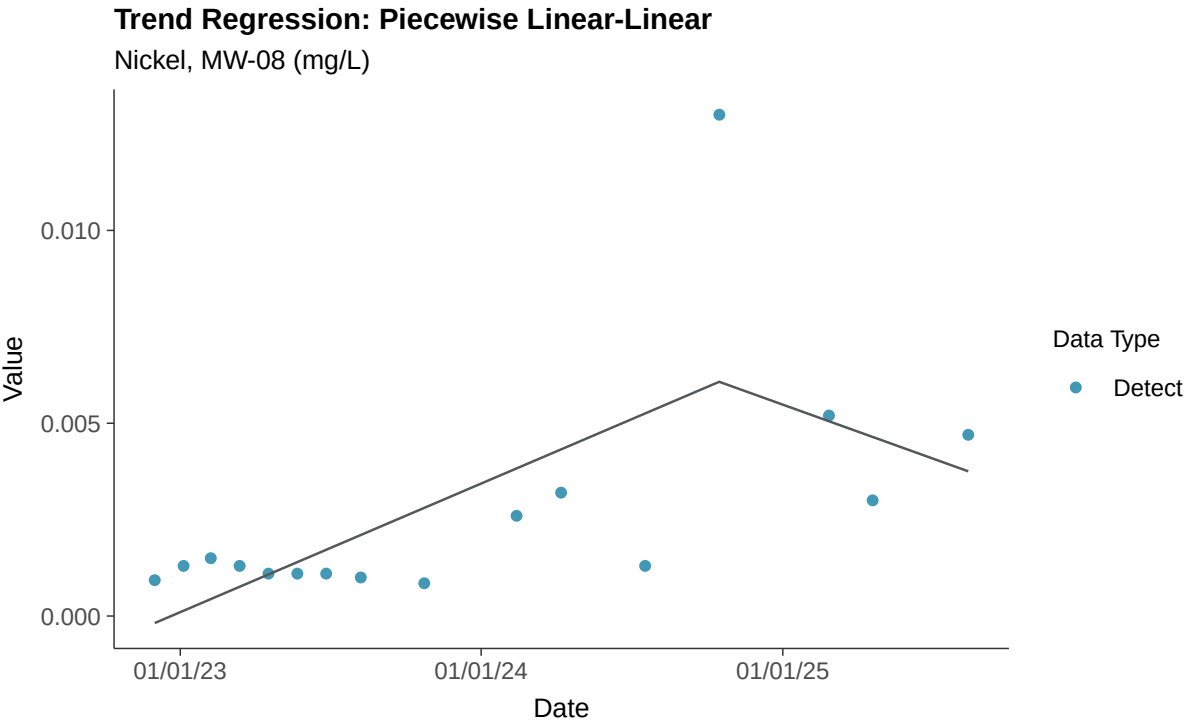
Nickel, MW-08 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-08 (mg/L)

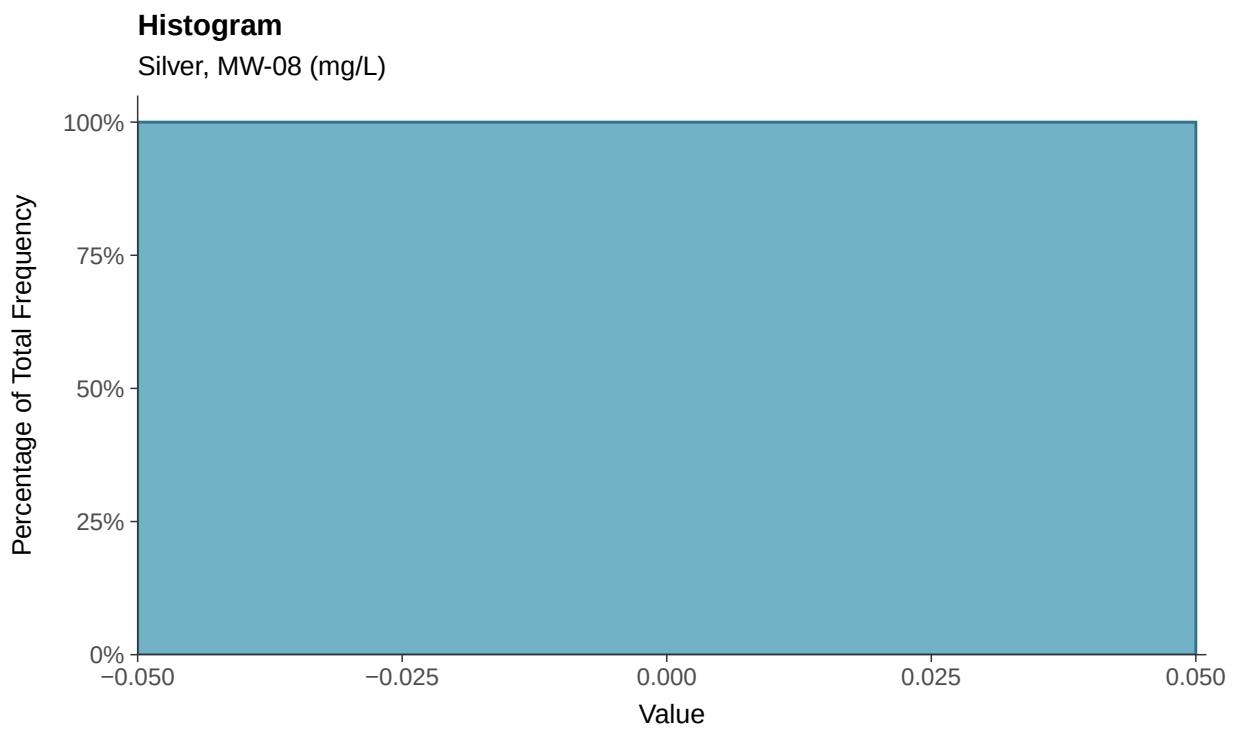
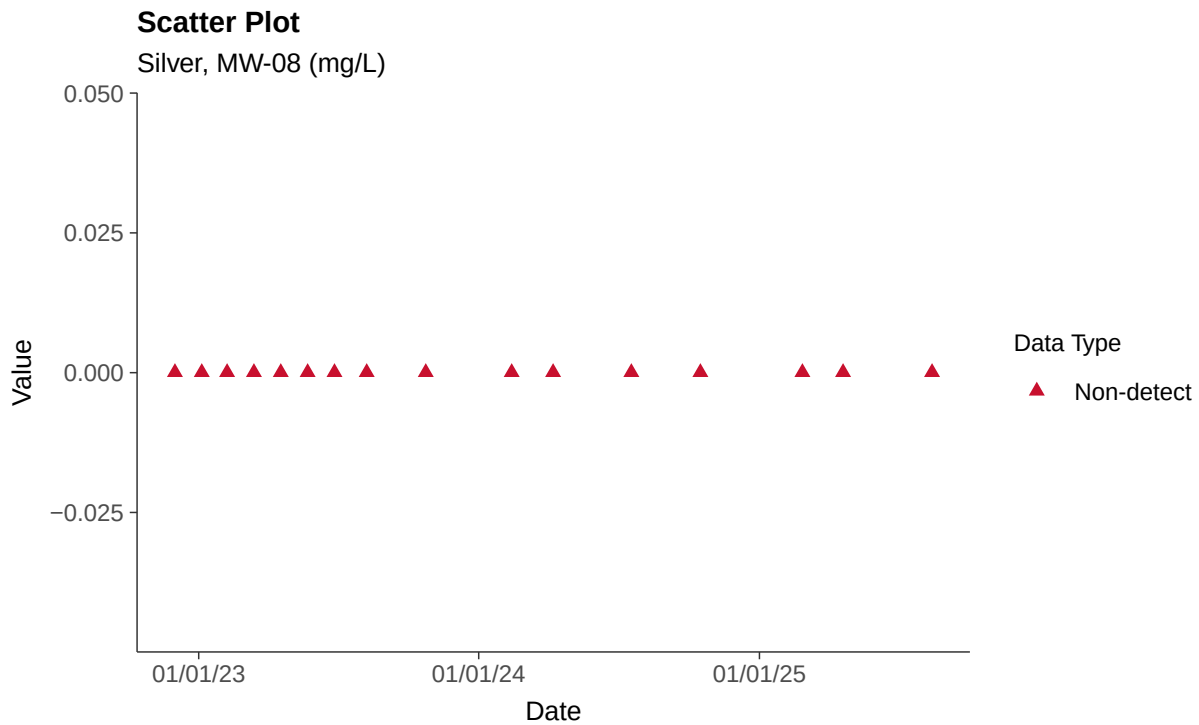


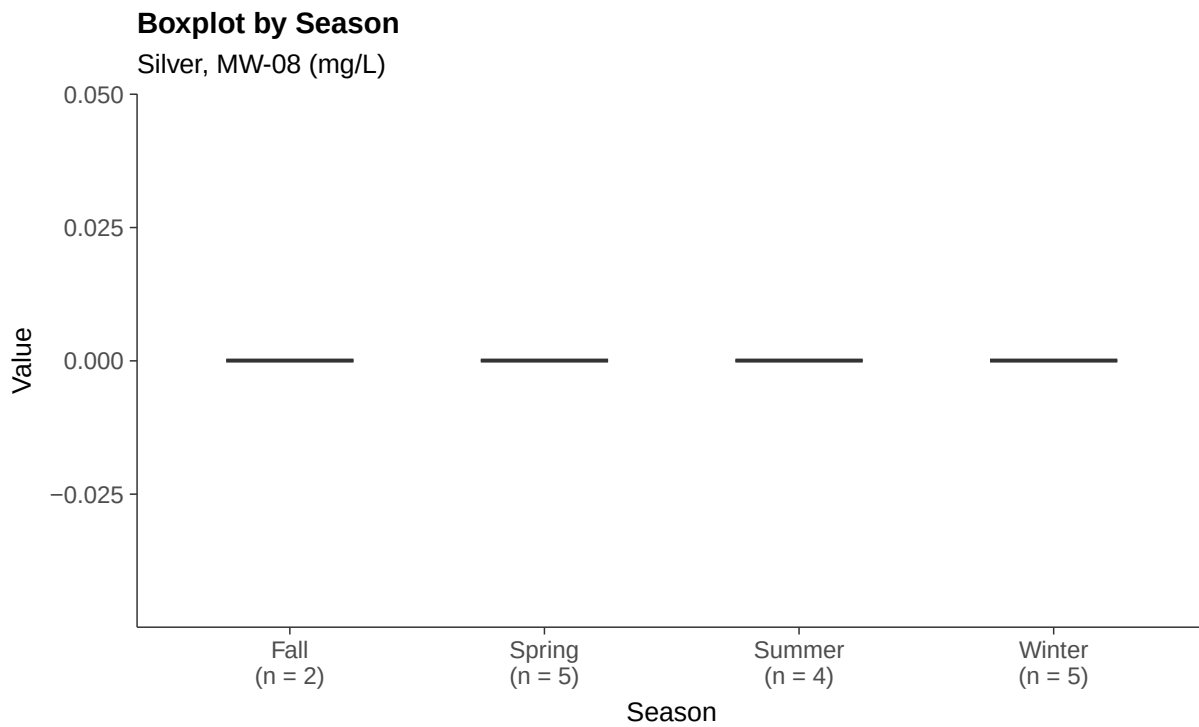
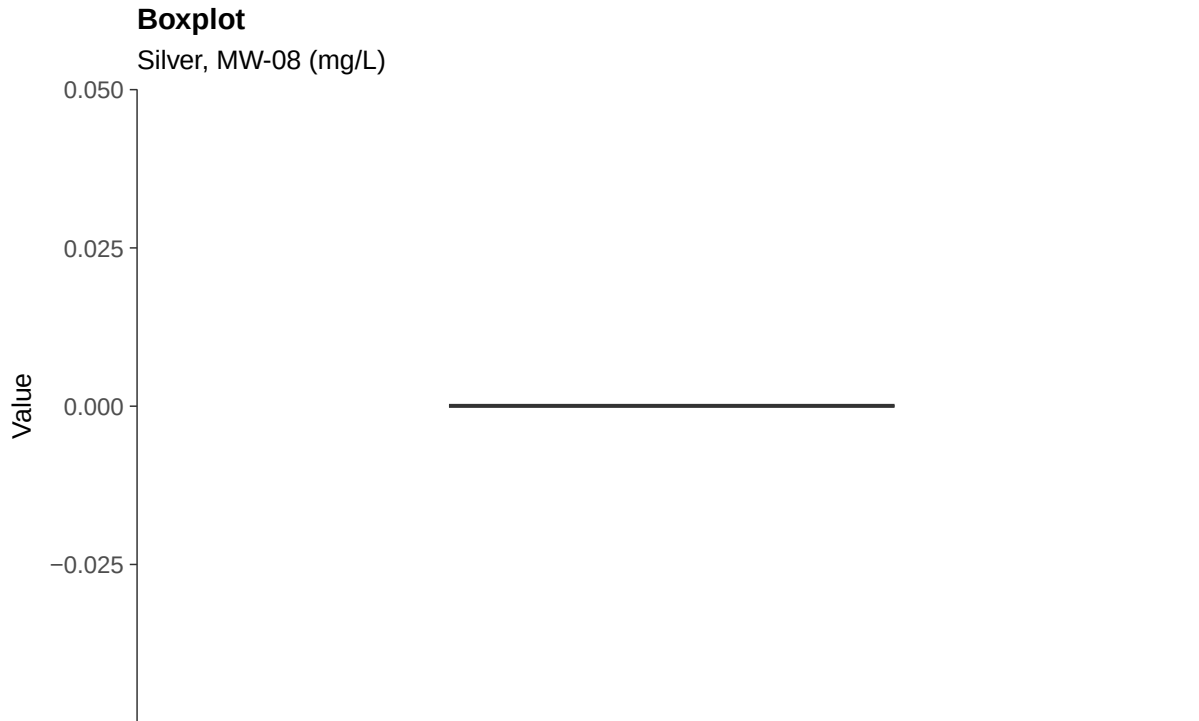




Part 115: Silver, MW-08

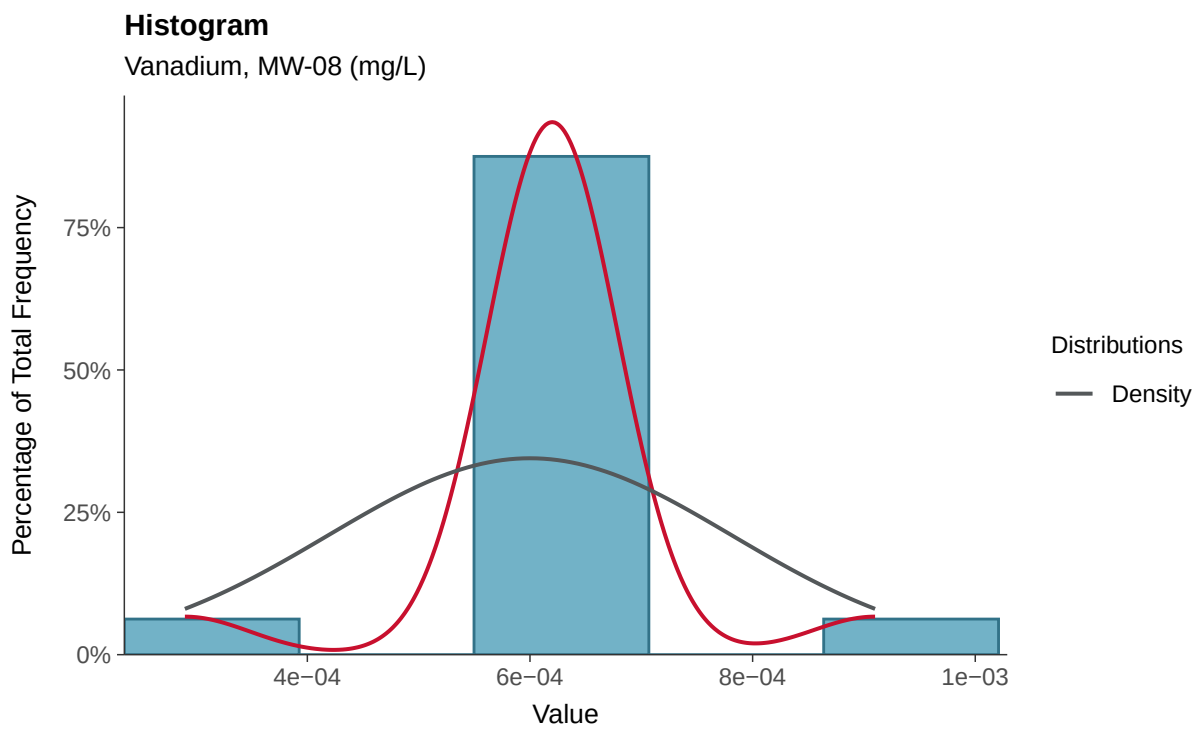
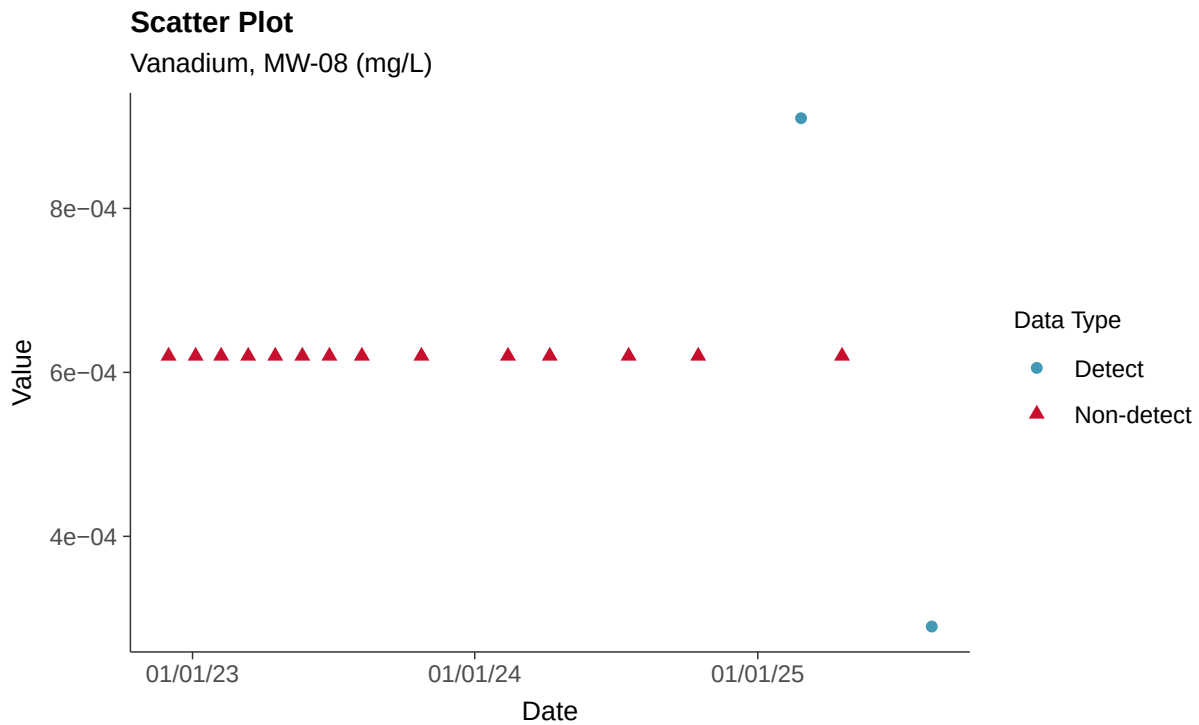
ID: 18_1_5_123





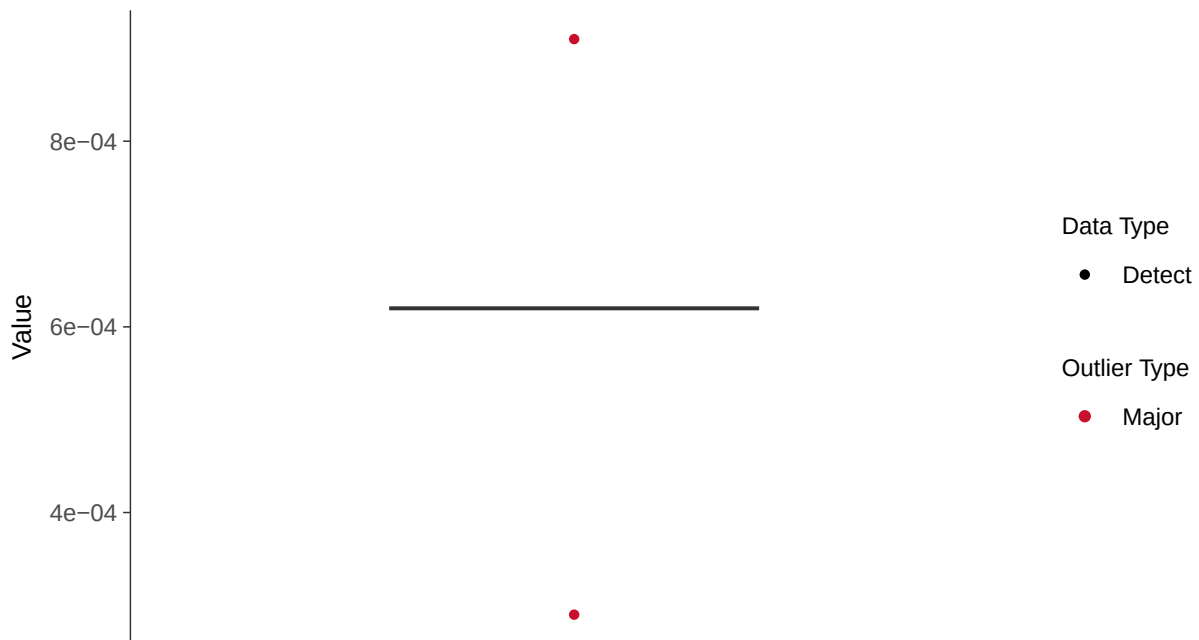
Part 115: Vanadium, MW-08

ID: 18_1_5_128



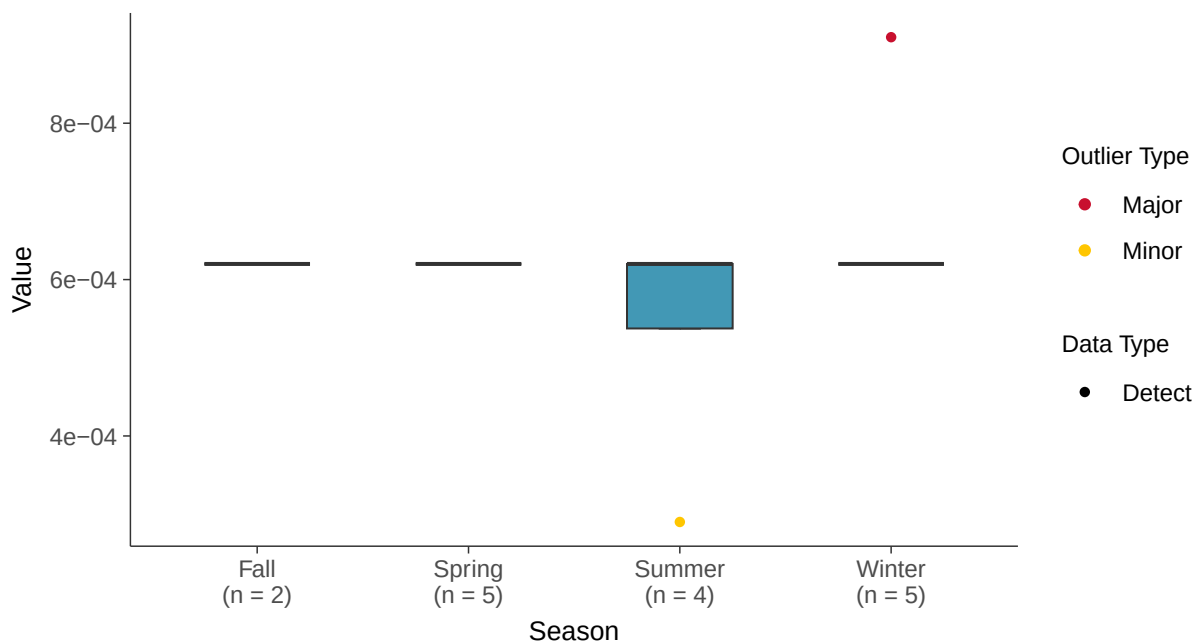
Boxplot

Vanadium, MW-08 (mg/L)



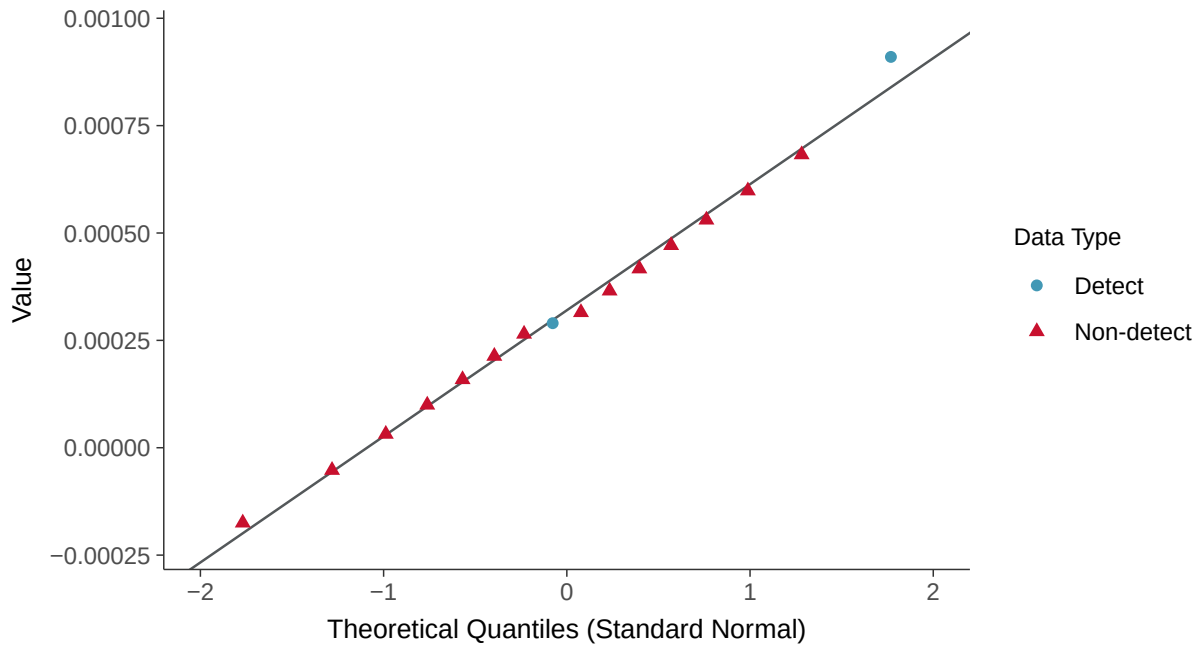
Boxplot by Season

Vanadium, MW-08 (mg/L)



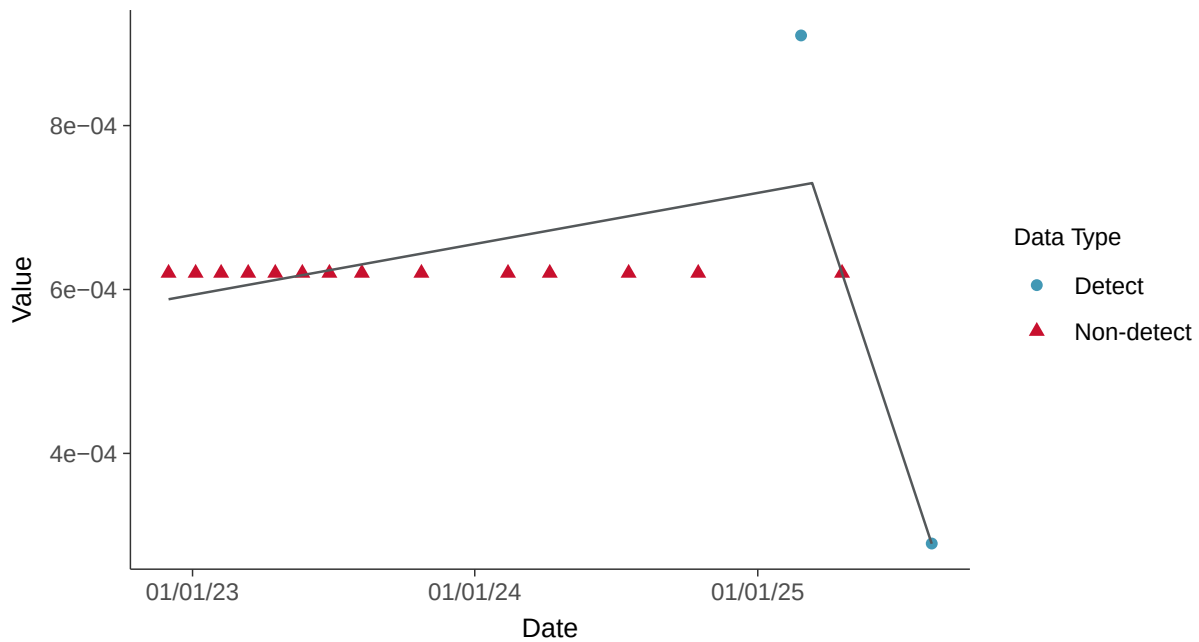
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-08 (mg/L)

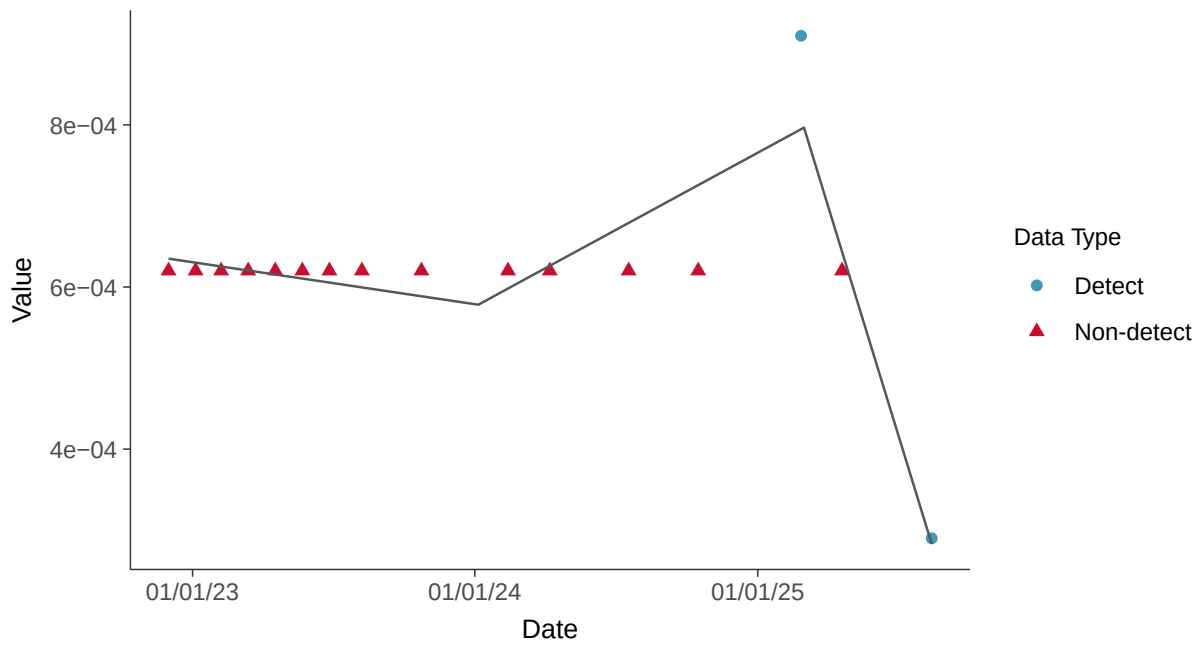


Trend Regression: Piecewise Linear-Linear

Vanadium, MW-08 (mg/L)

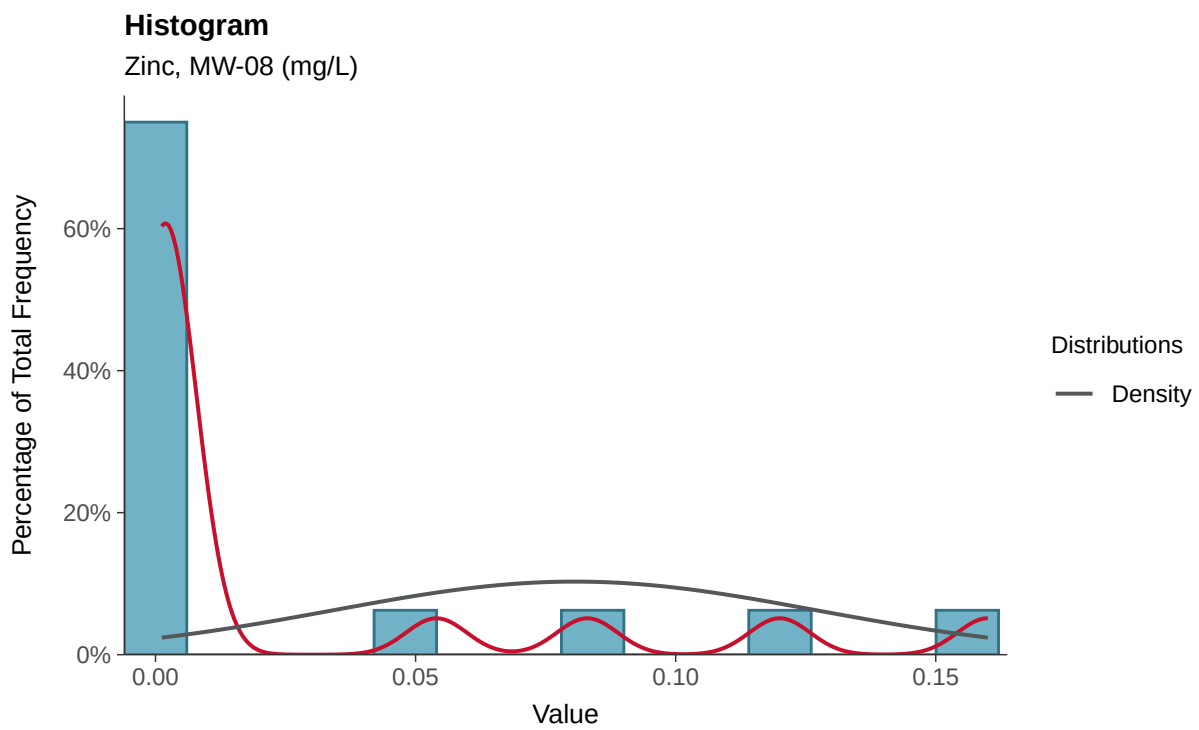
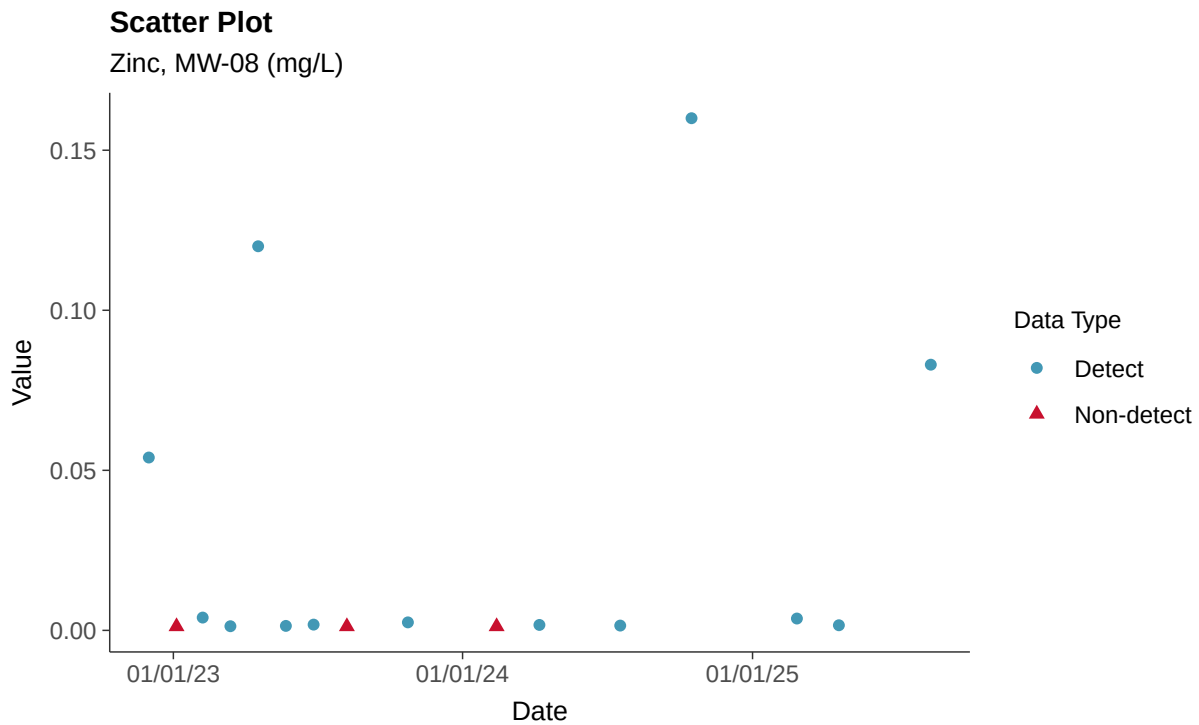


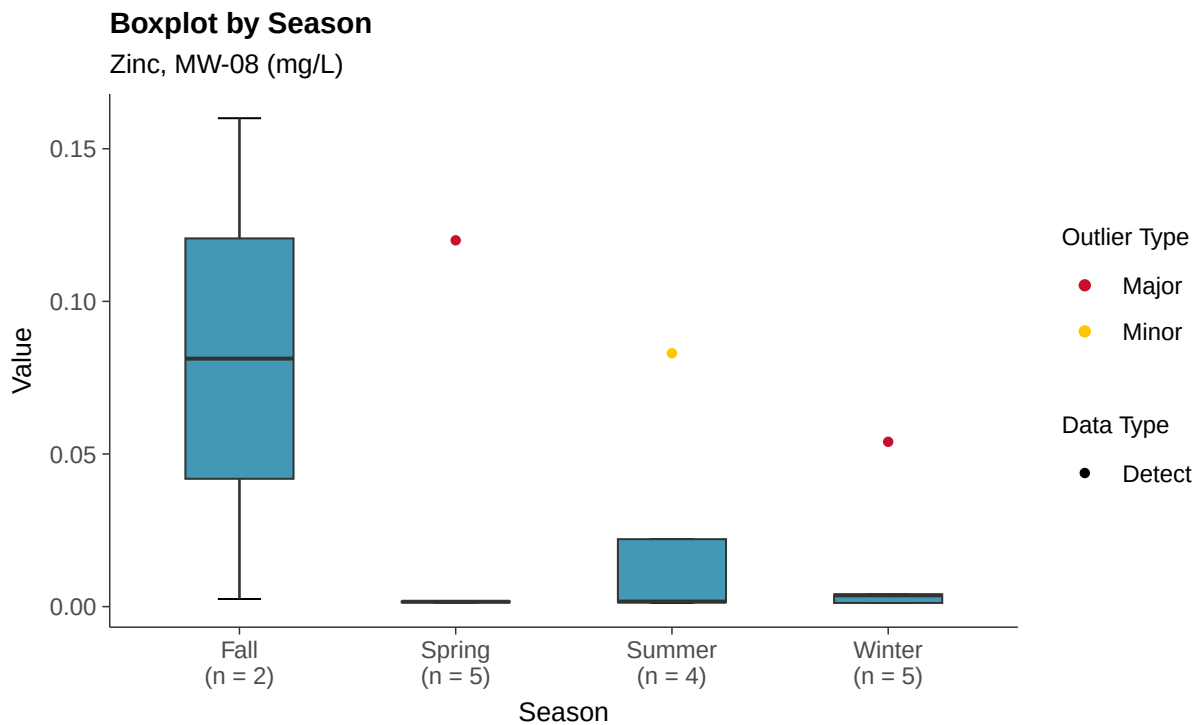
Vanadium, MW-08 (mg/L)



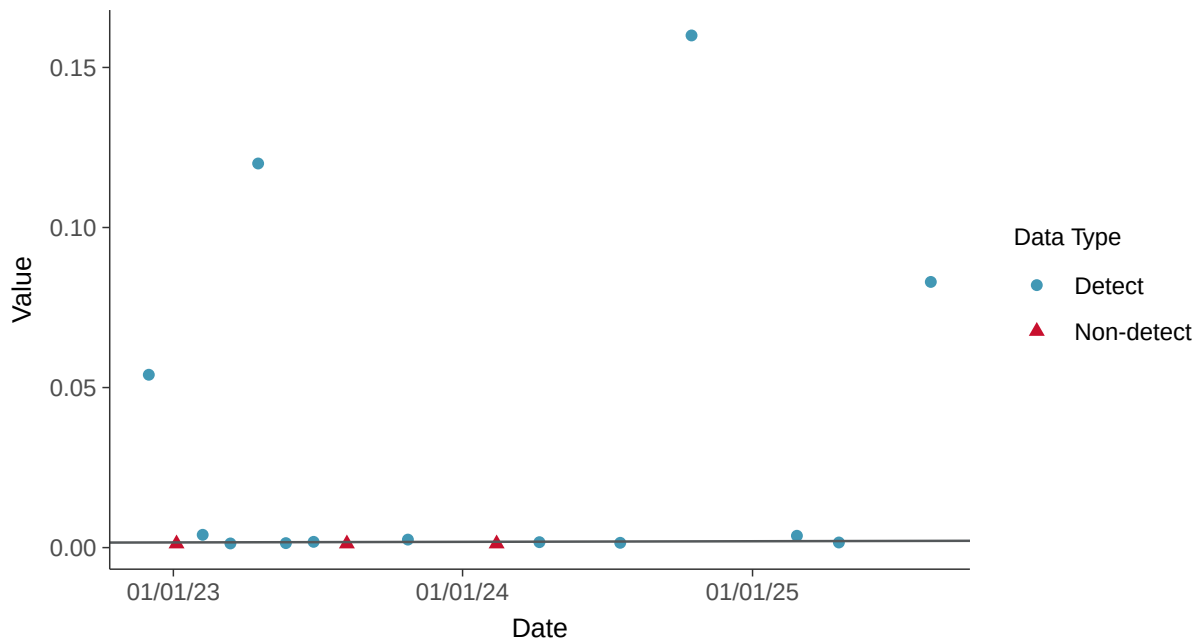
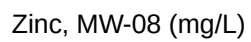
Part 115: Zinc, MW-08

ID: 18_1_5_129



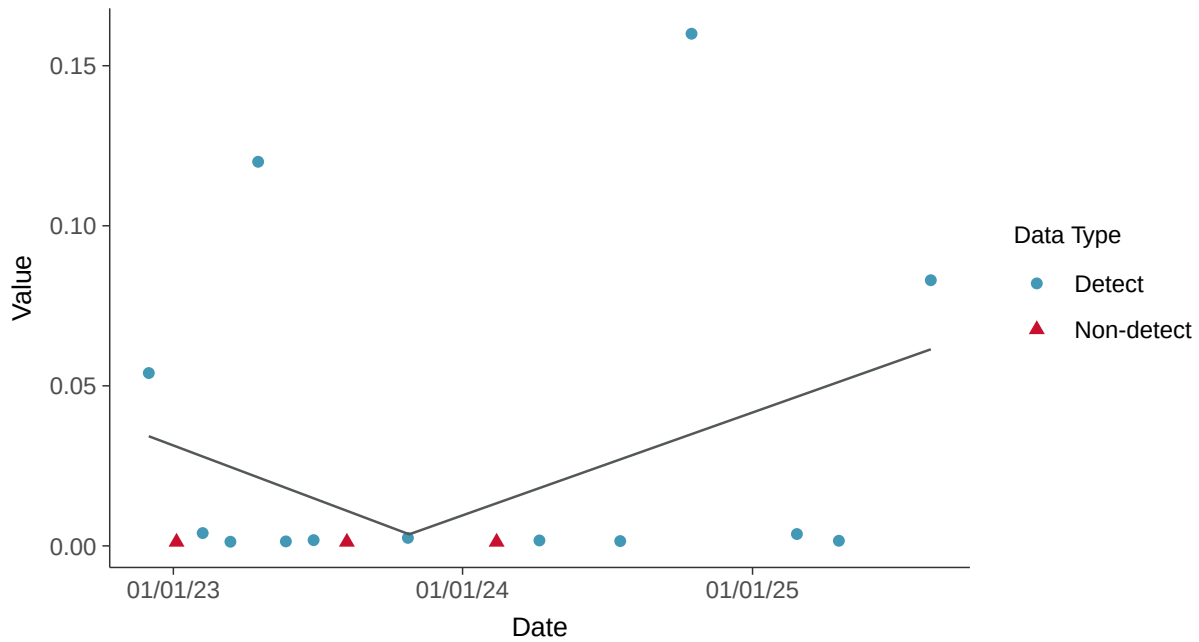


Zinc, MW-08 (mg/L)



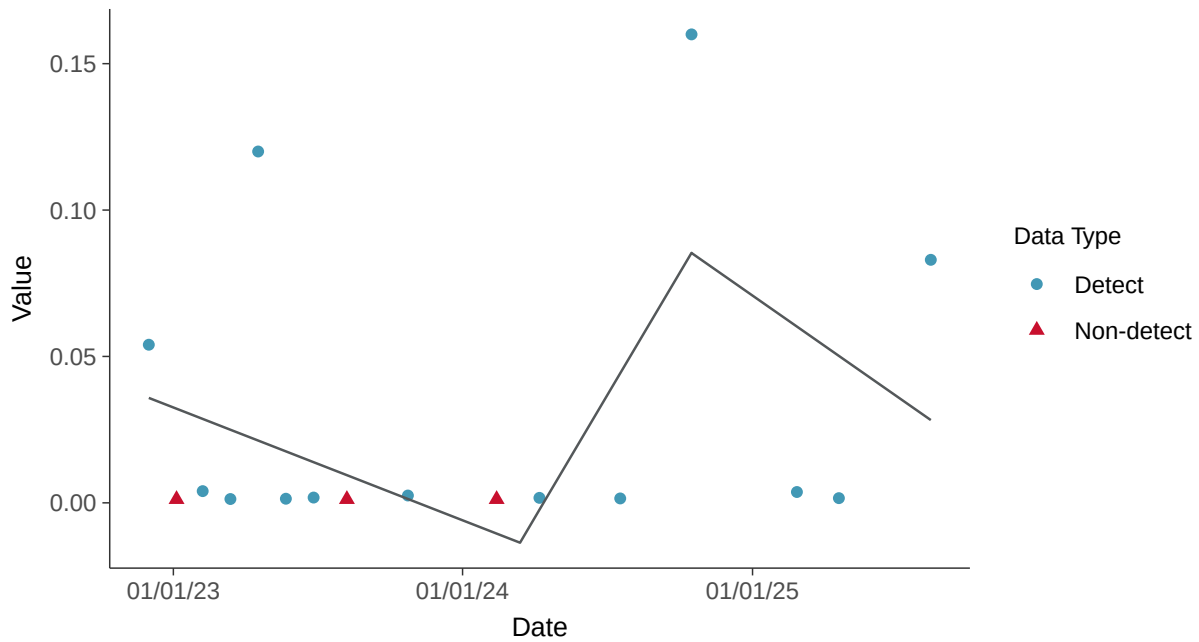
Trend Regression: Piecewise Linear-Linear

Zinc, MW-08 (mg/L)



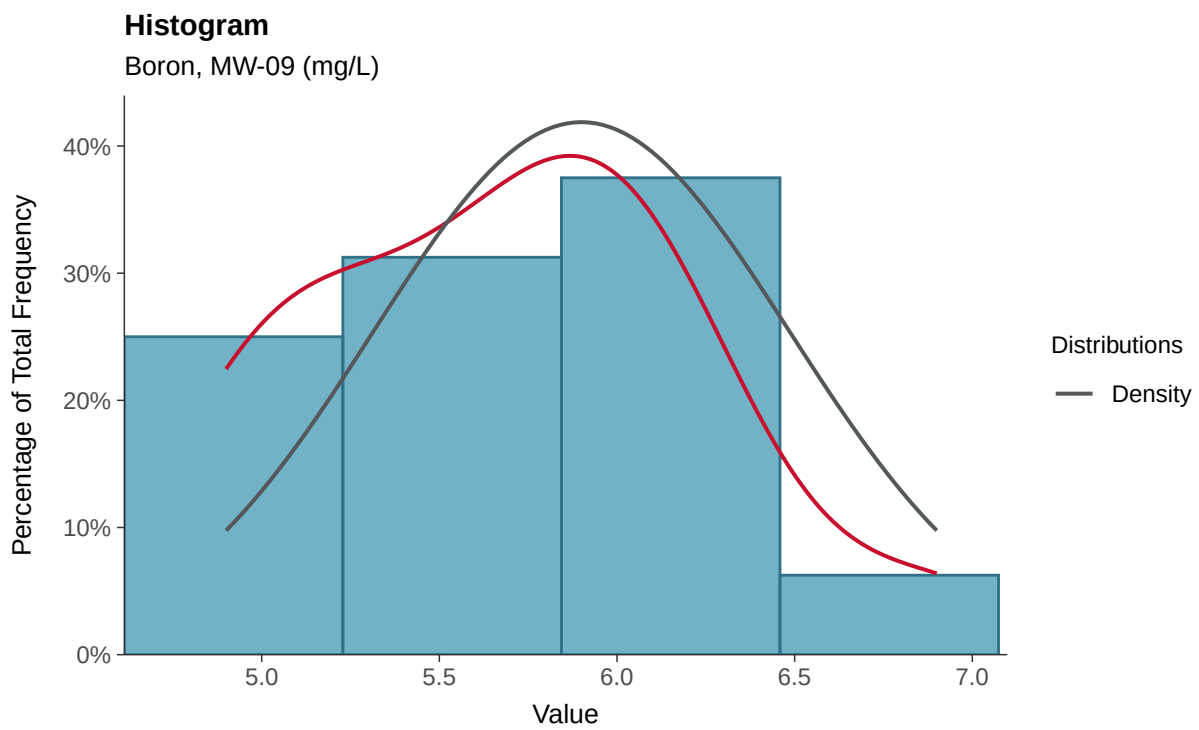
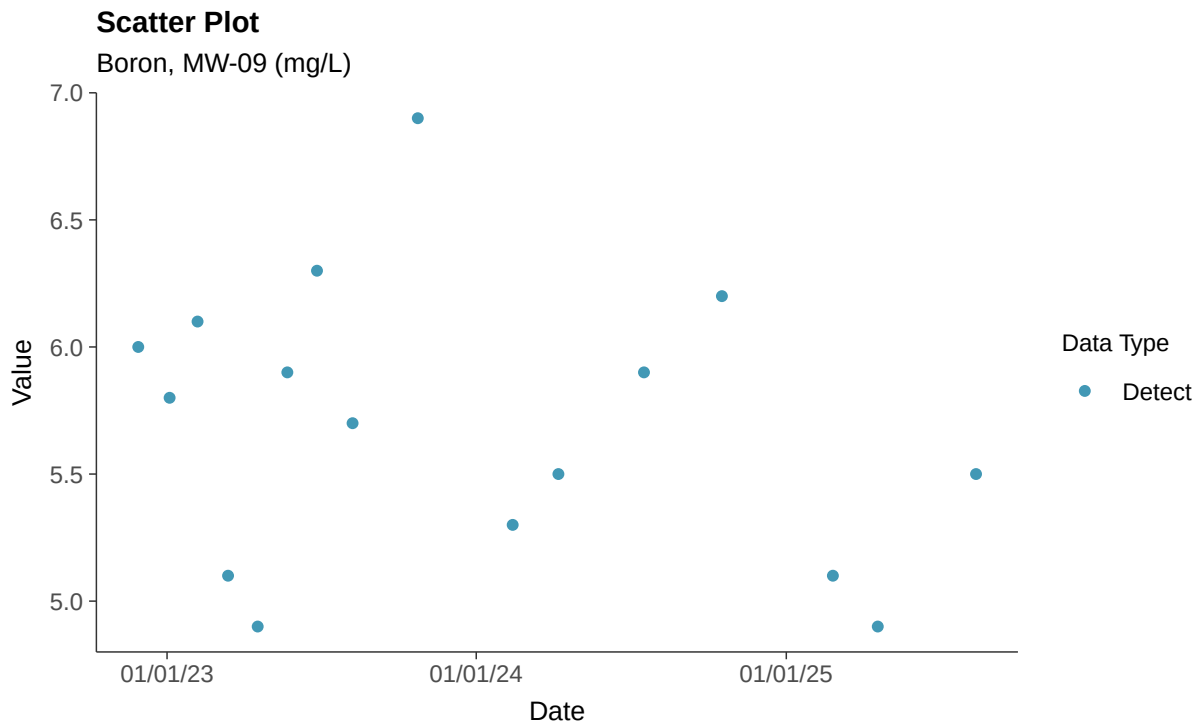
Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-08 (mg/L)



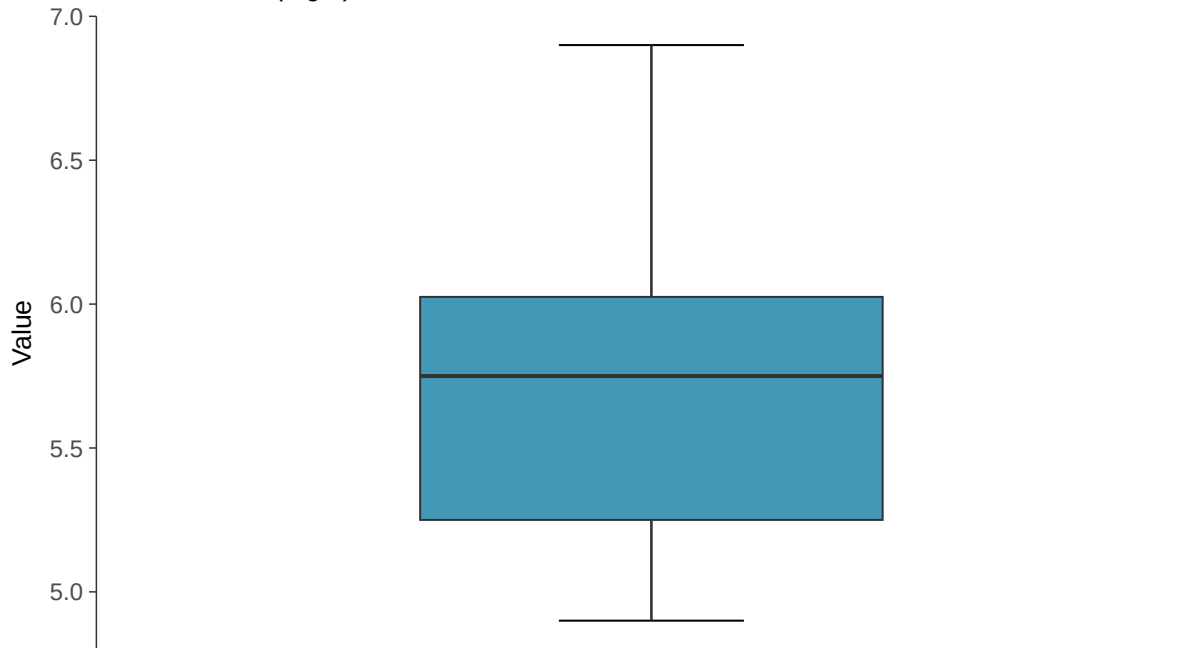
Appendix III: Boron, MW-09

ID: 19_2_3_105



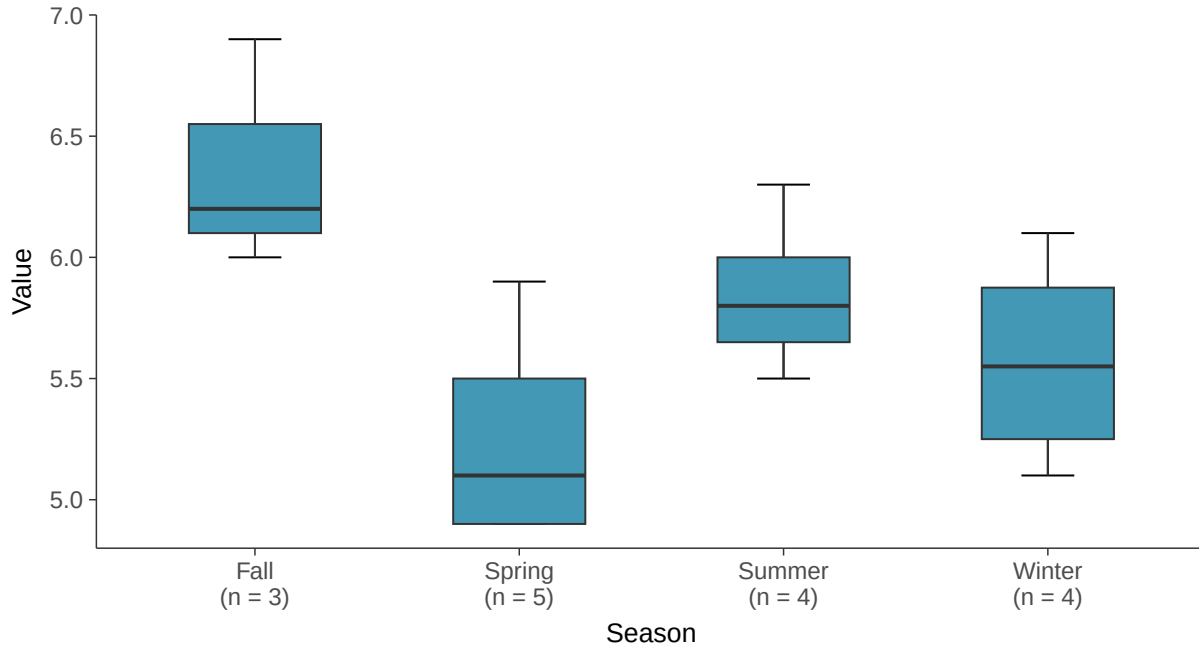
Boxplot

Boron, MW-09 (mg/L)

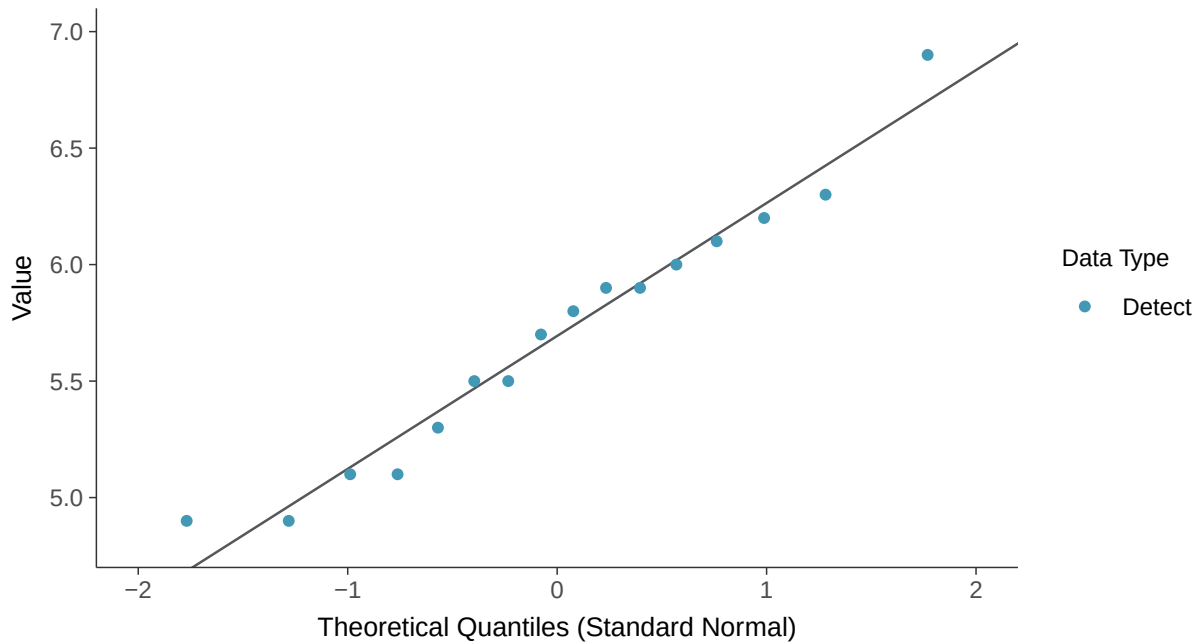


Boxplot by Season

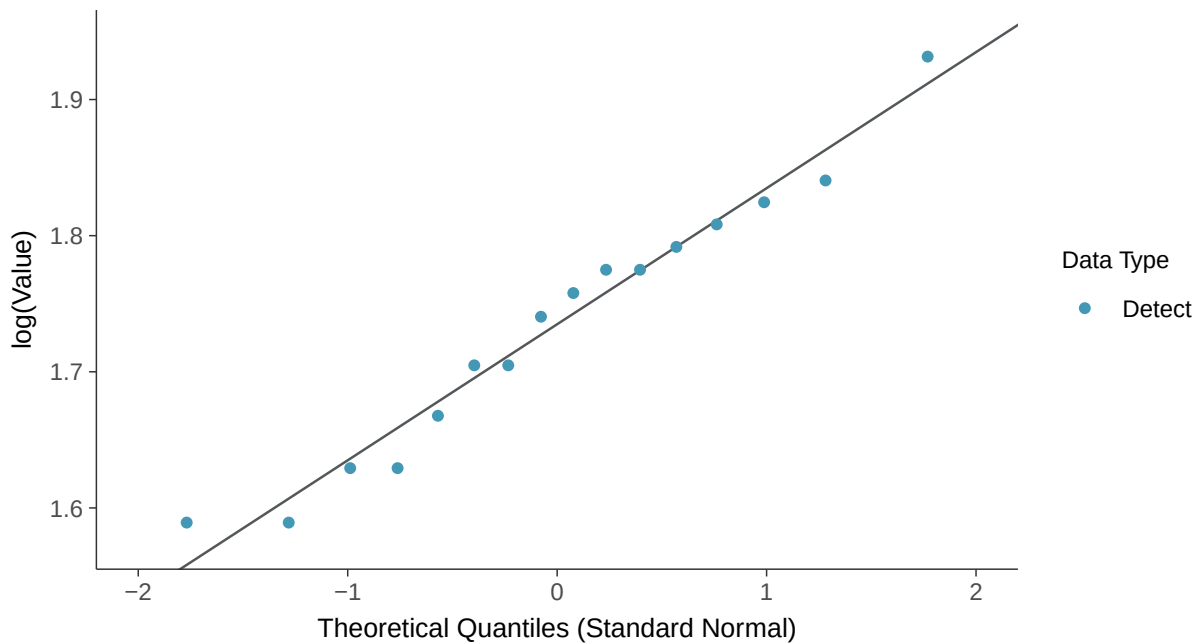
Boron, MW-09 (mg/L)



Normal Q-Q plot
Boron, MW-09 (mg/L)

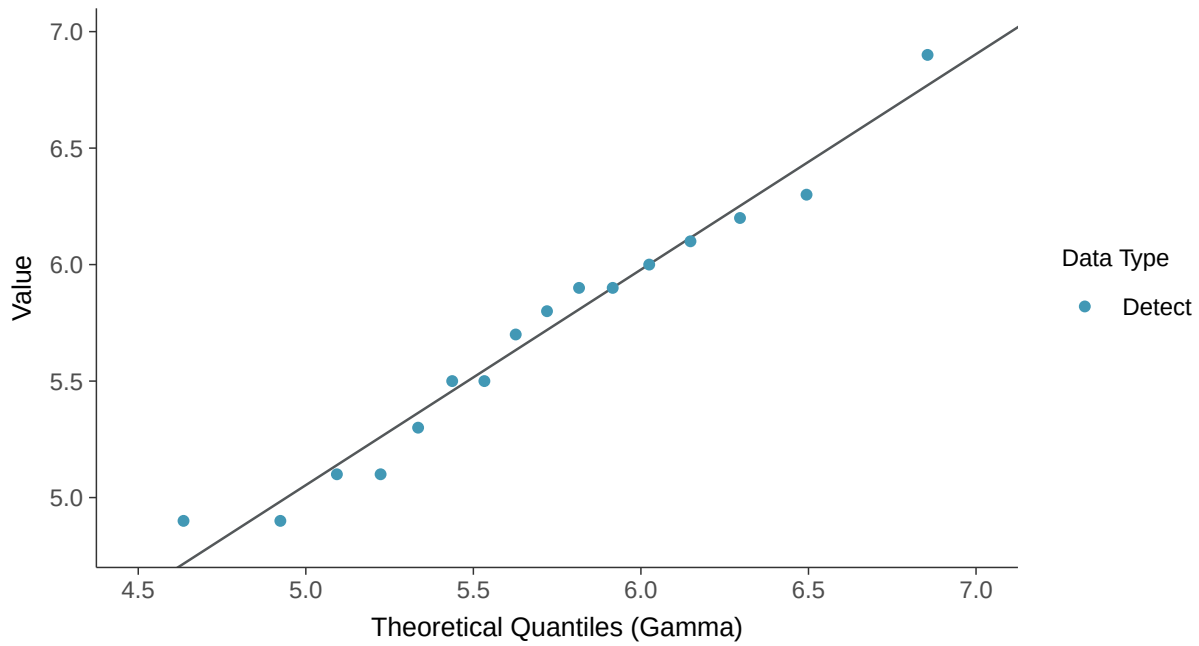


Lognormal Q-Q plot
Boron, MW-09 (mg/L)



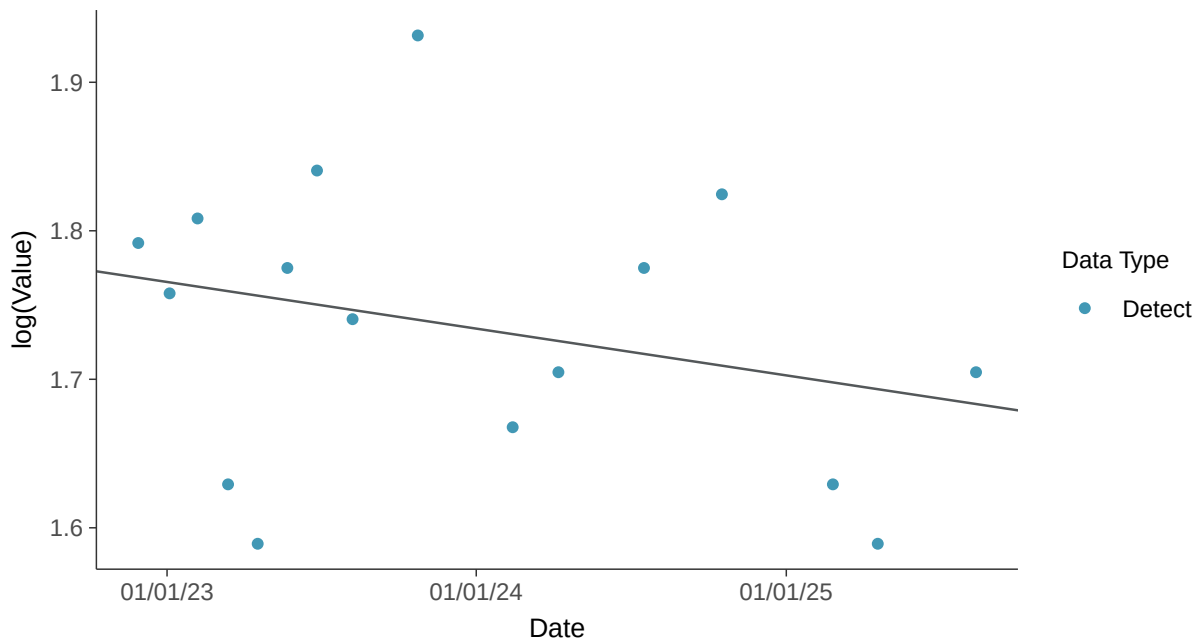
Gamma Q-Q plot

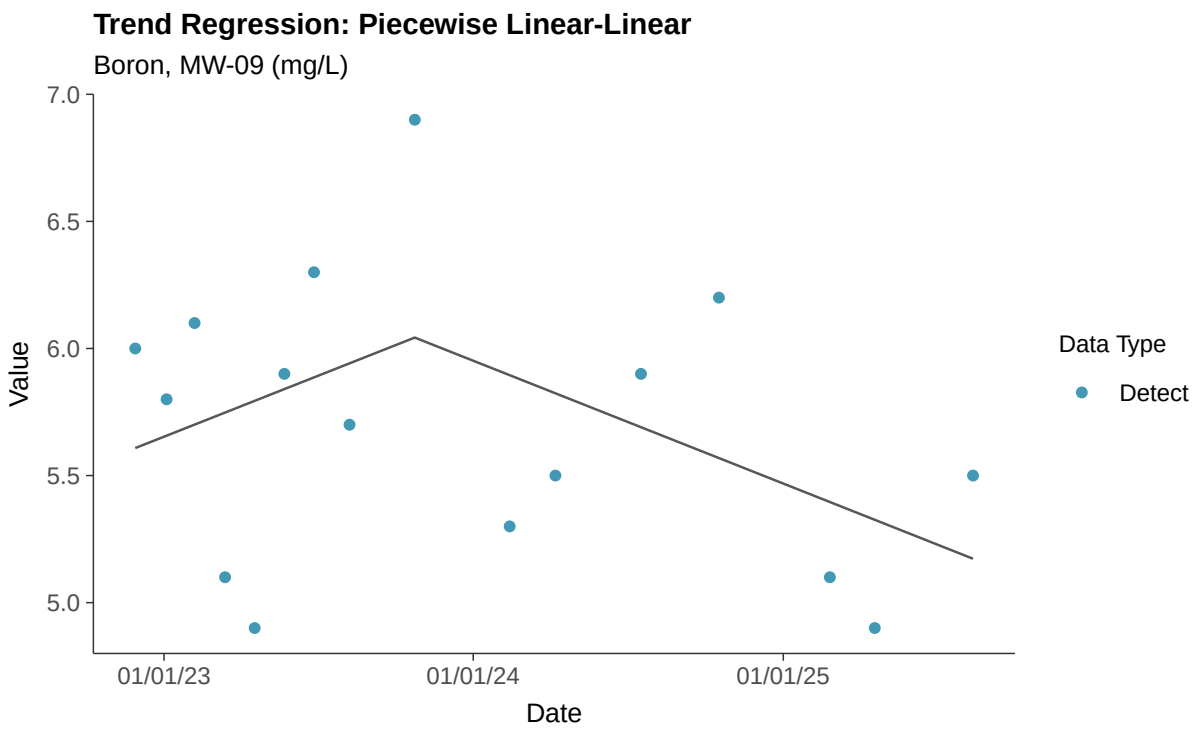
Boron, MW-09 (mg/L)



Trend Regression: Lognormal MLE

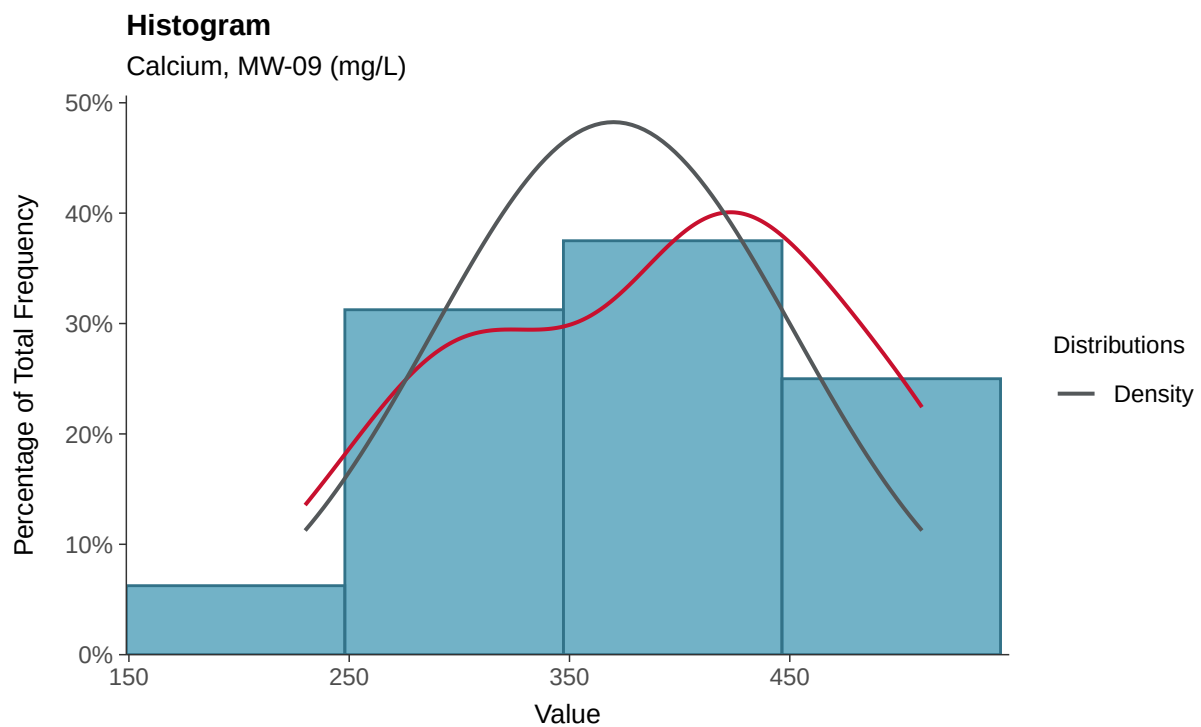
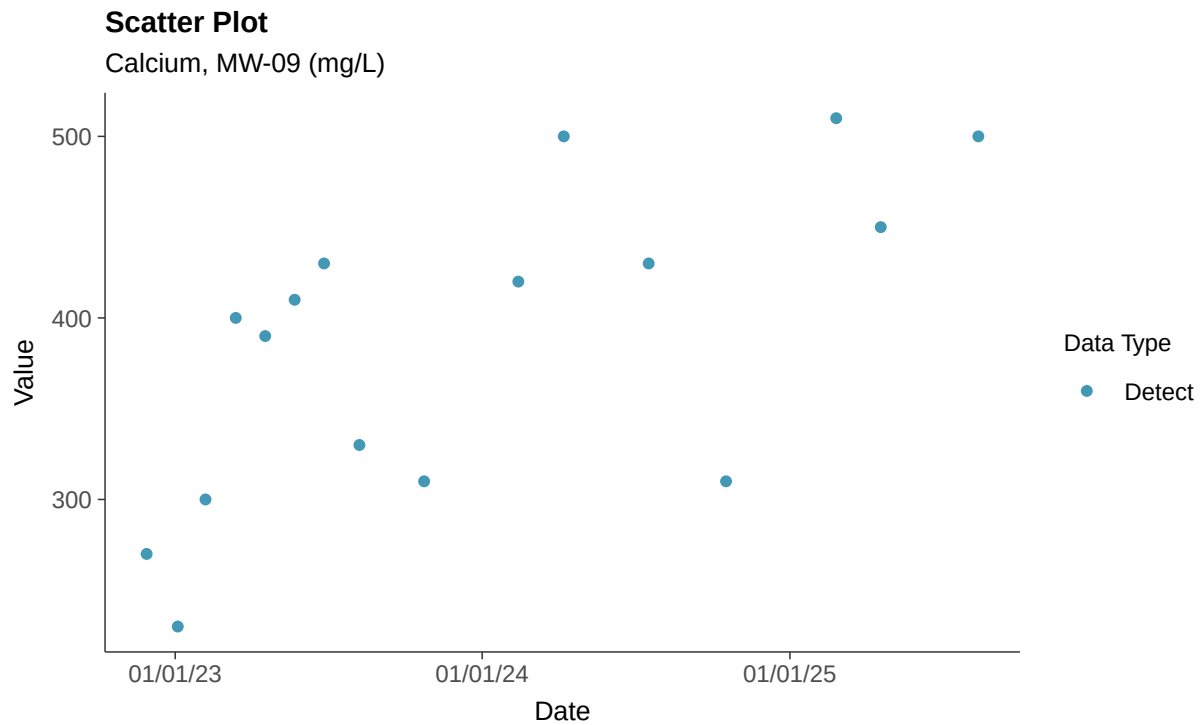
Boron, MW-09 (mg/L)





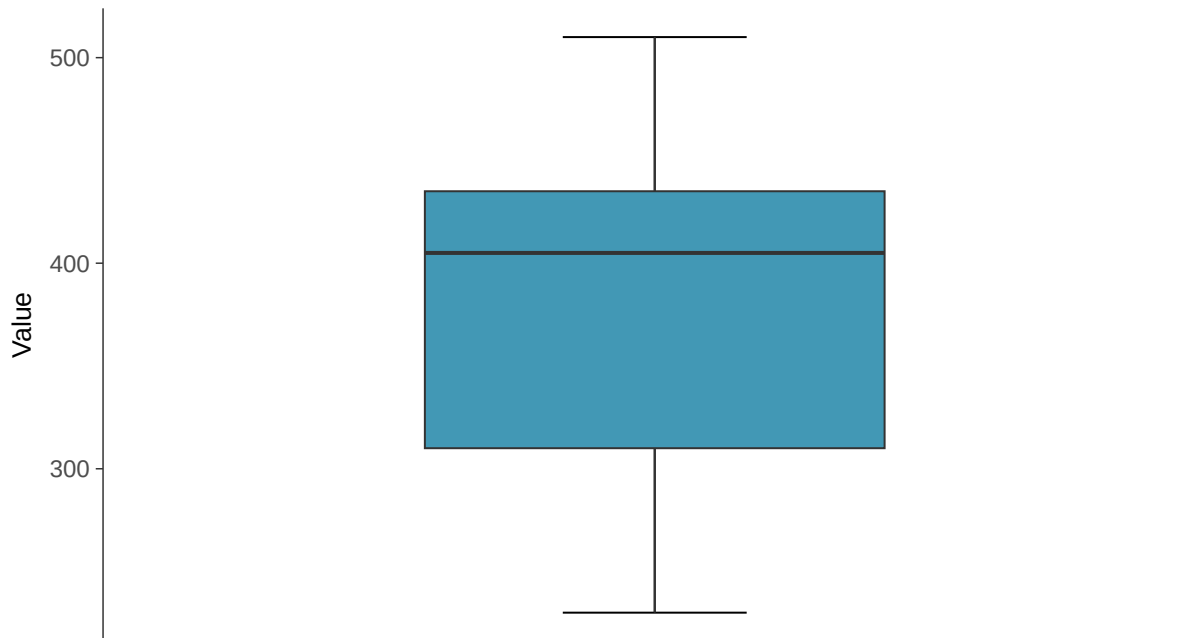
Appendix III: Calcium, MW-09

ID: 19_2_3_107



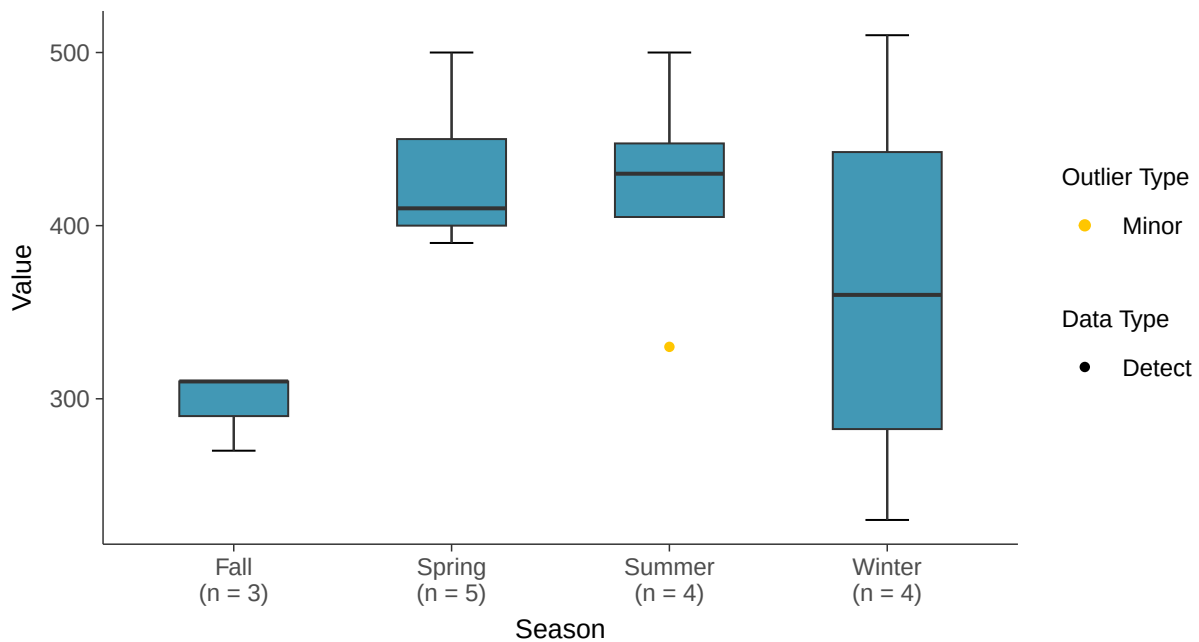
Boxplot

Calcium, MW-09 (mg/L)



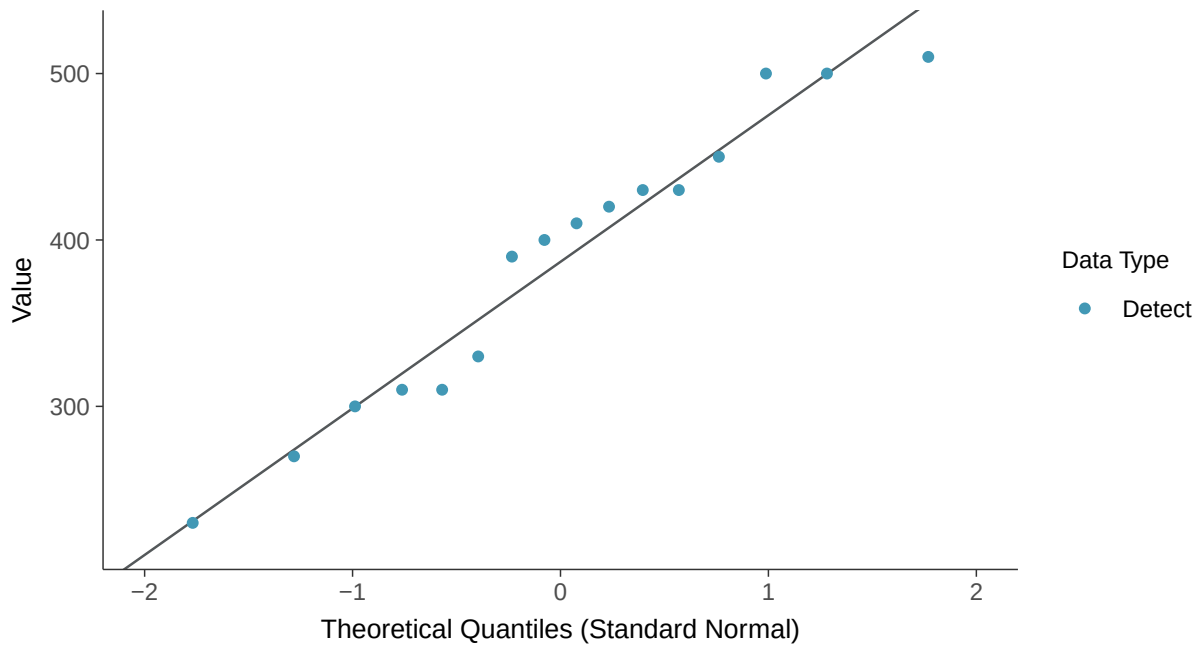
Boxplot by Season

Calcium, MW-09 (mg/L)



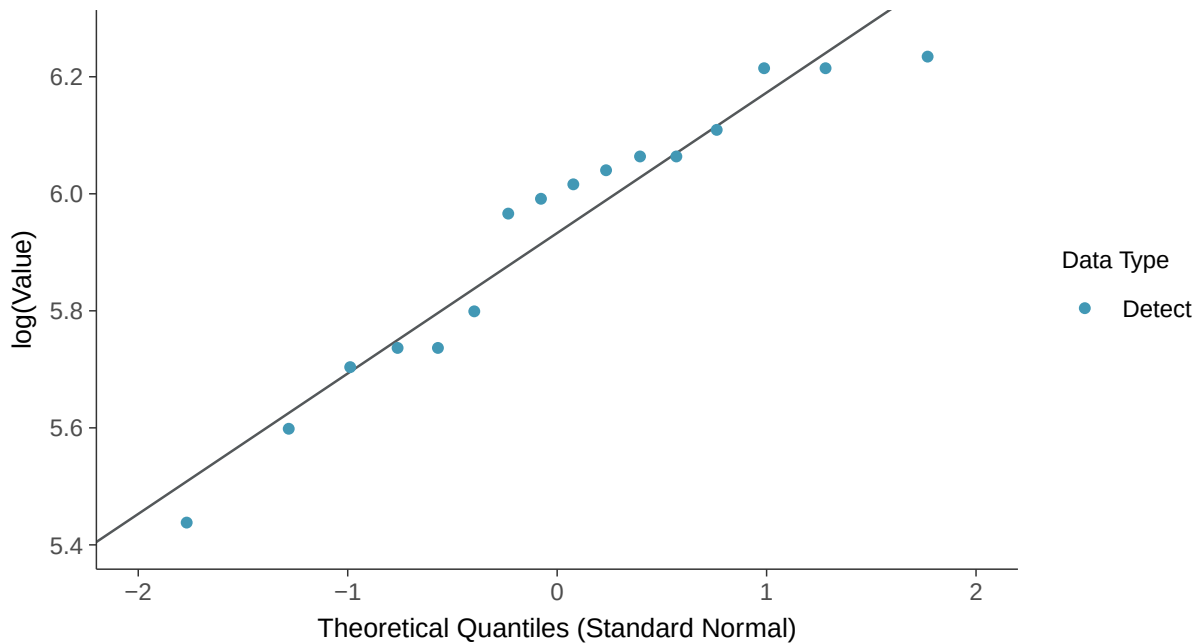
Normal Q-Q plot

Calcium, MW-09 (mg/L)



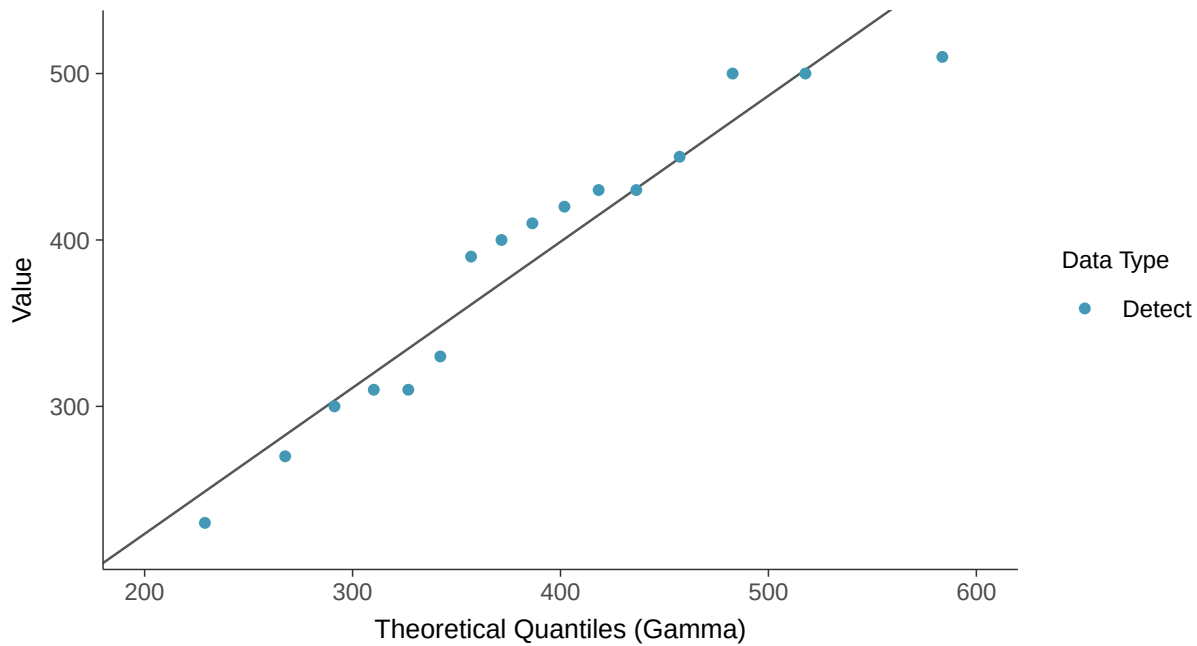
Lognormal Q-Q plot

Calcium, MW-09 (mg/L)



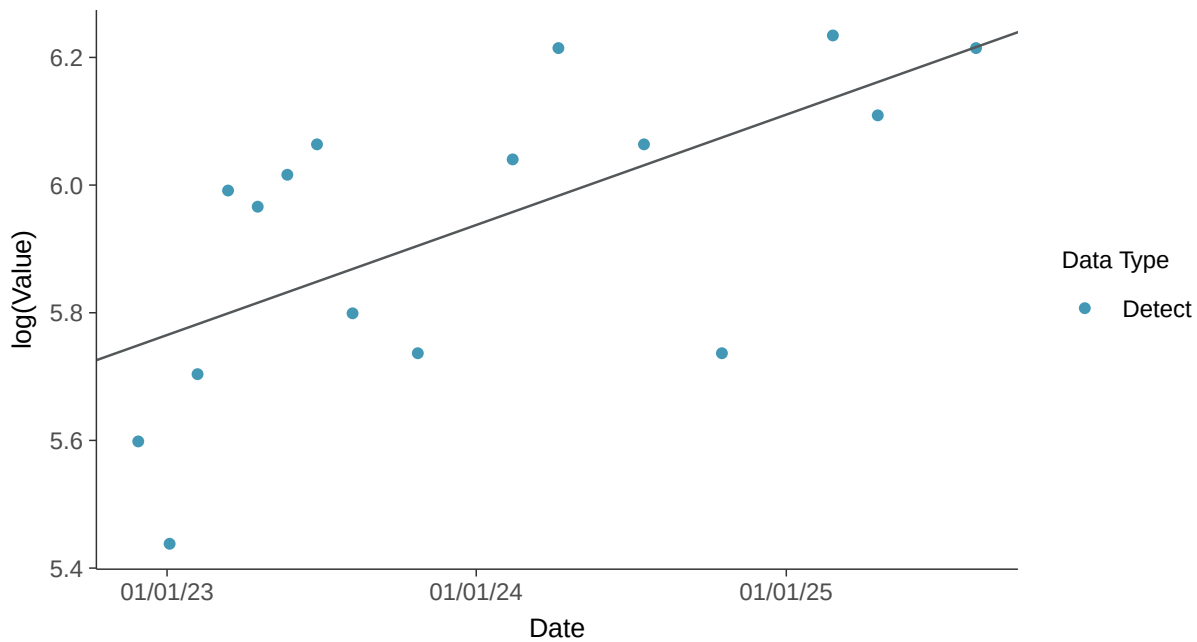
Gamma Q-Q plot

Calcium, MW-09 (mg/L)



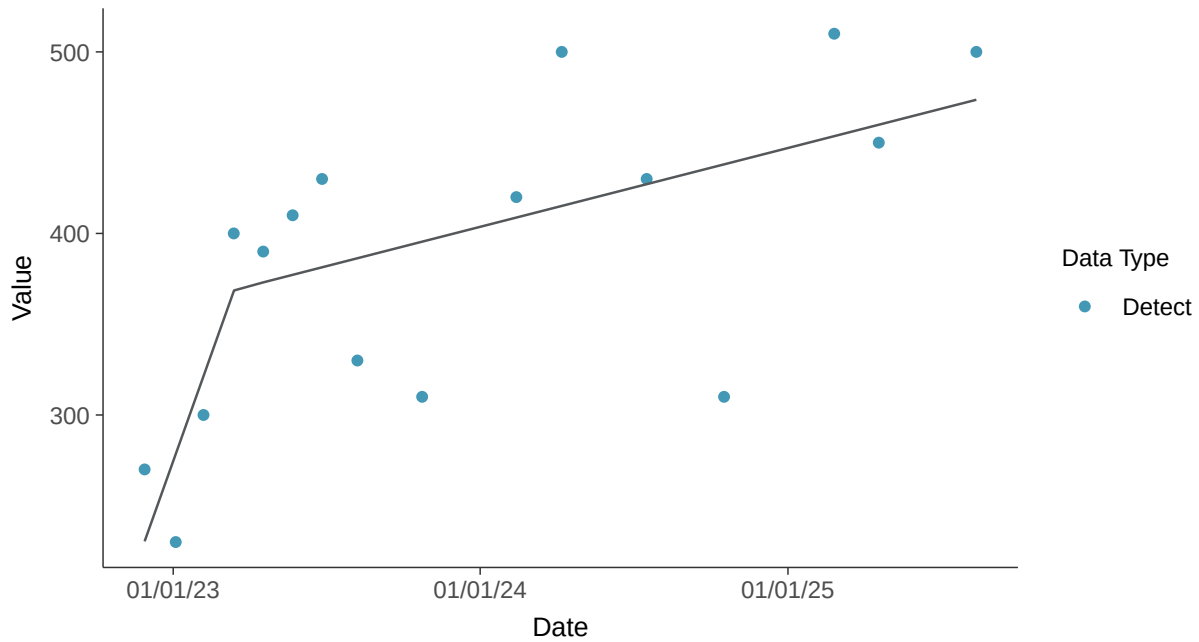
Trend Regression: Lognormal MLE

Calcium, MW-09 (mg/L)



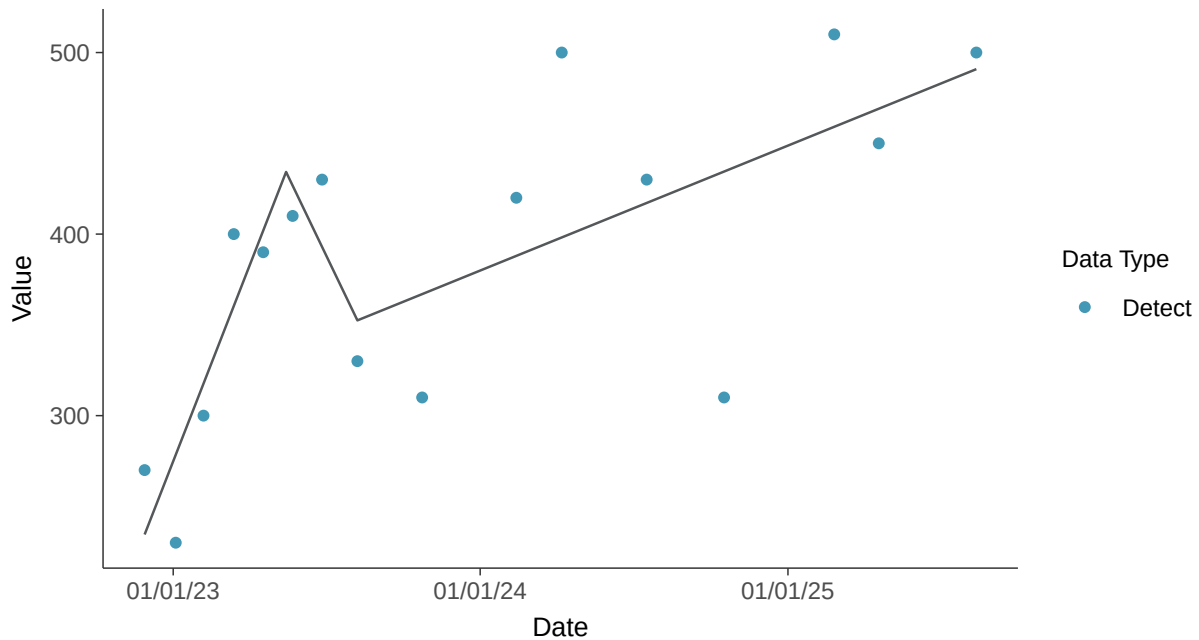
Trend Regression: Piecewise Linear-Linear

Calcium, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-09 (mg/L)

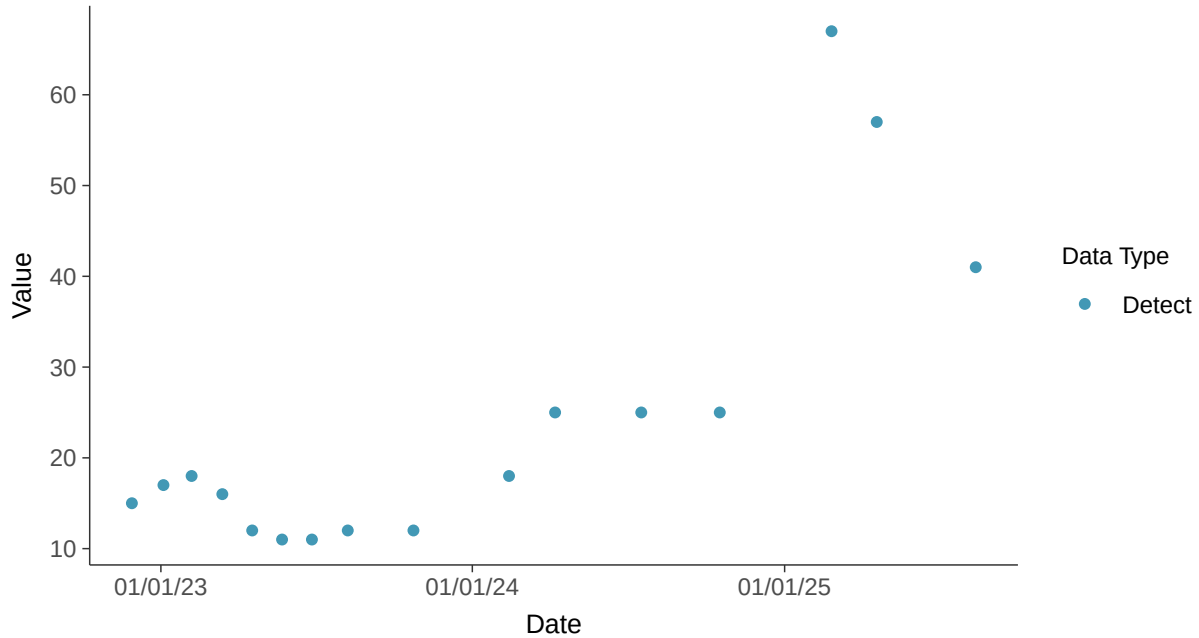


Appendix III: Chloride (as Cl), MW-09

ID: 19_2_3_108

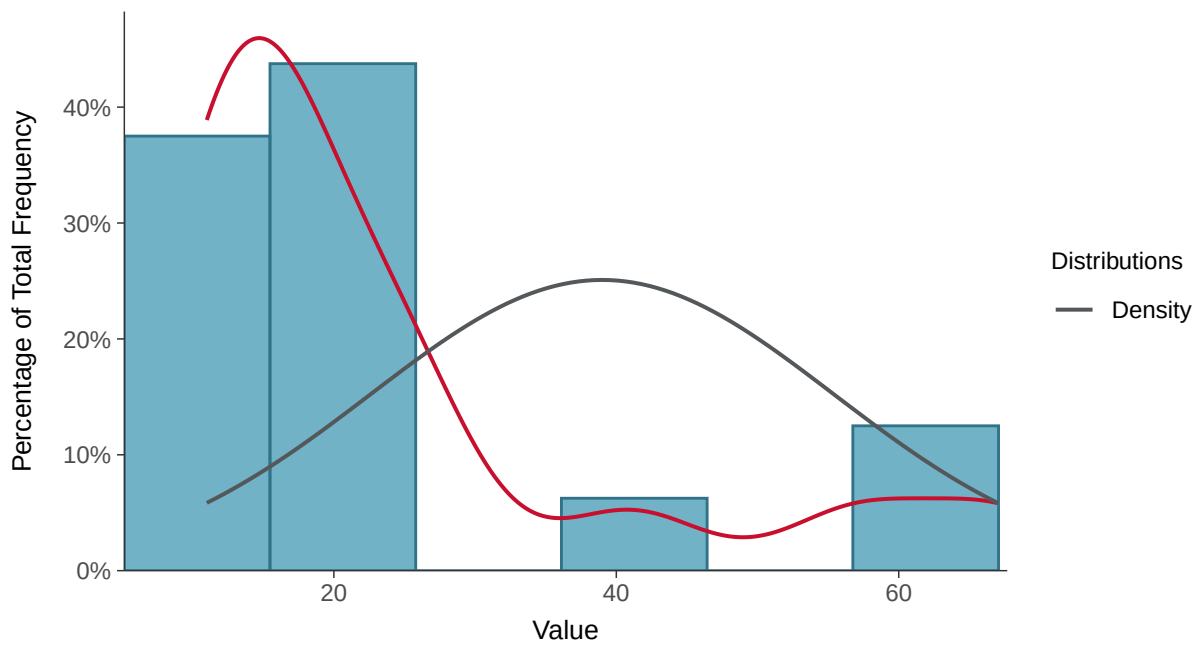
Scatter Plot

Chloride (as Cl), MW-09 (mg/L)



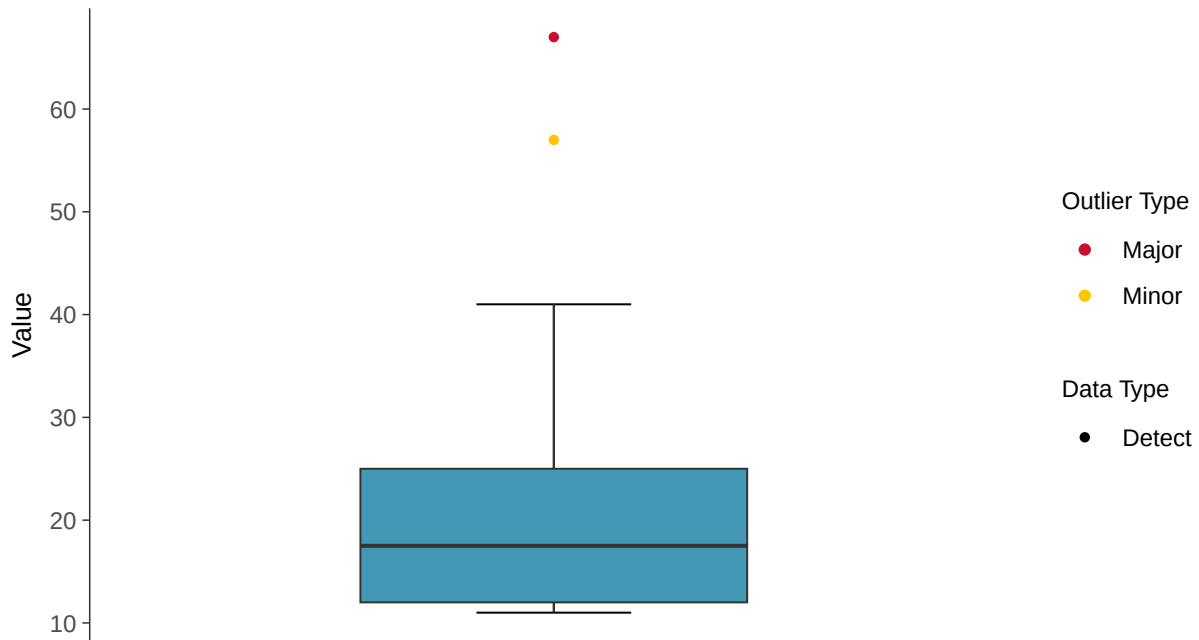
Histogram

Chloride (as Cl), MW-09 (mg/L)



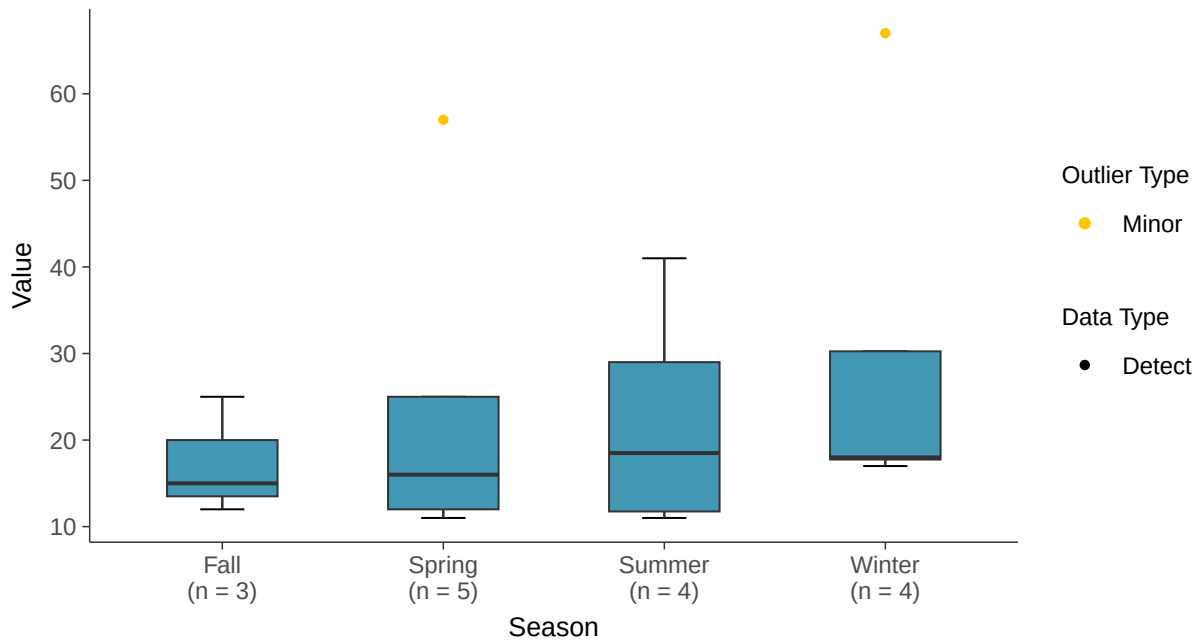
Boxplot

Chloride (as Cl), MW-09 (mg/L)



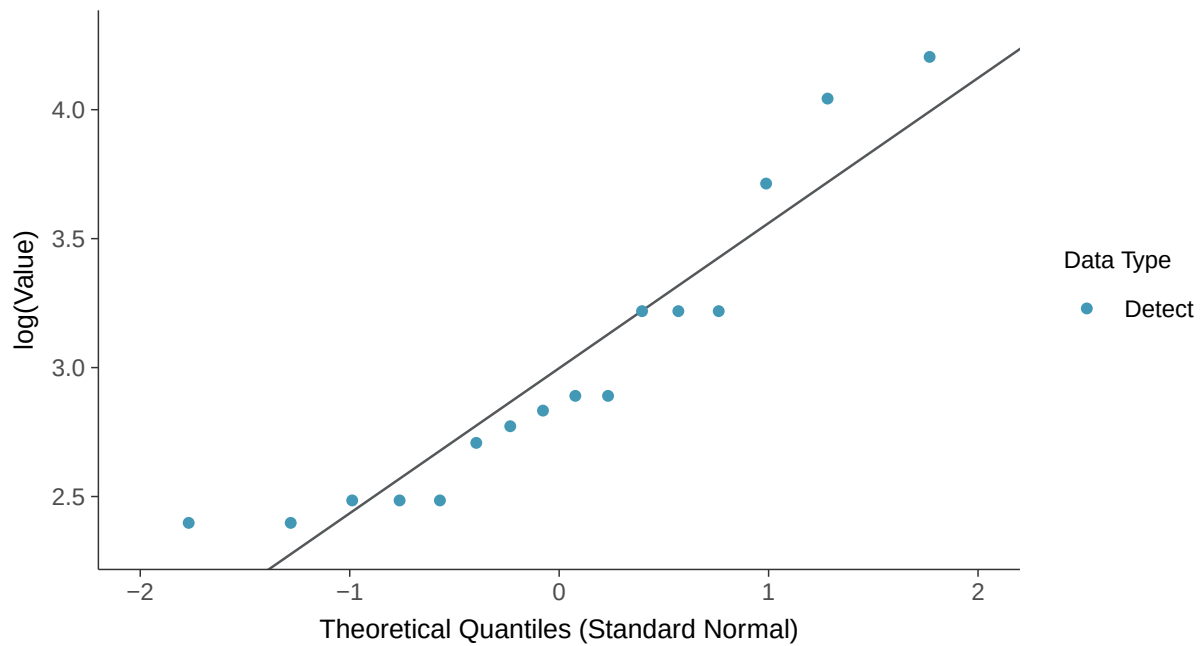
Boxplot by Season

Chloride (as Cl), MW-09 (mg/L)



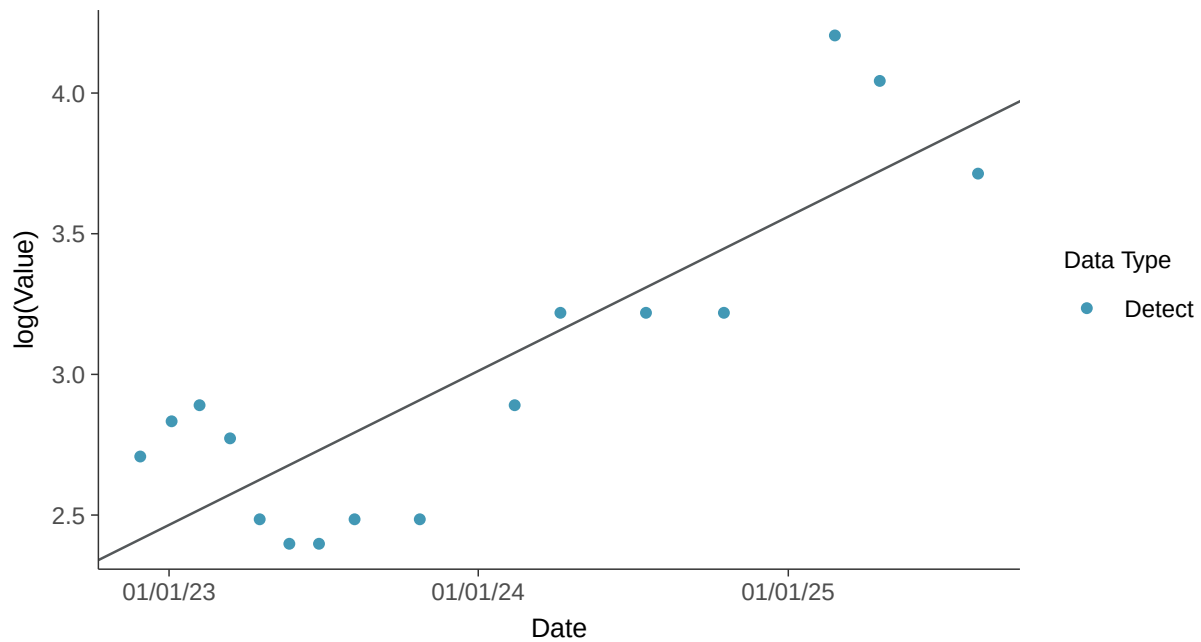
Lognormal Q-Q plot

Chloride (as Cl), MW-09 (mg/L)



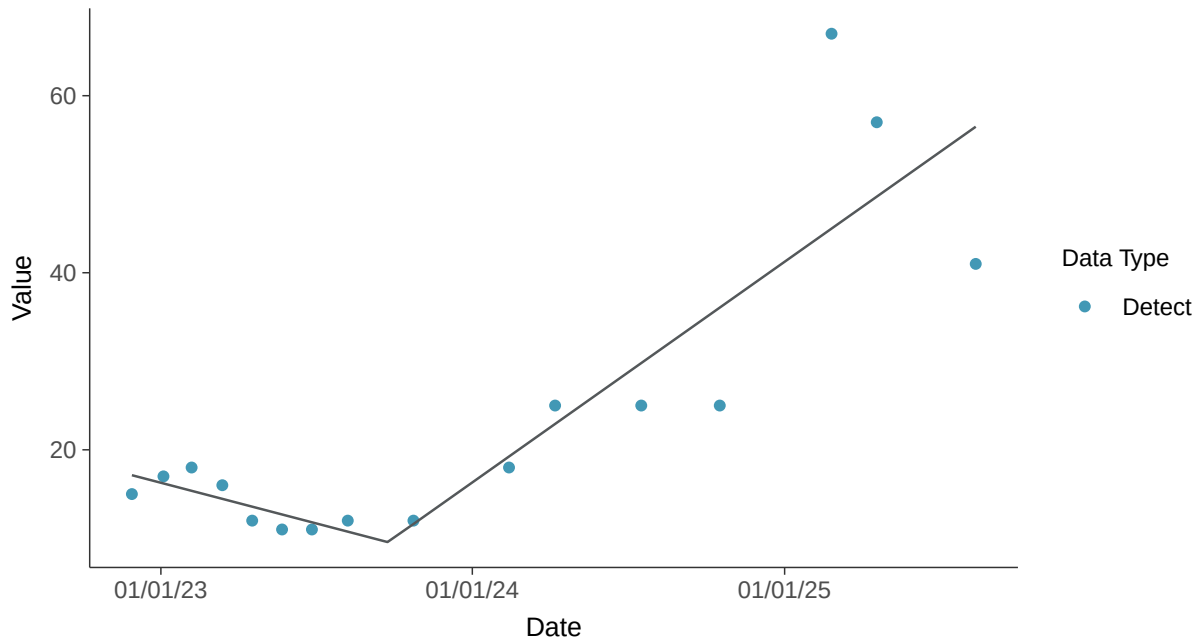
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-09 (mg/L)



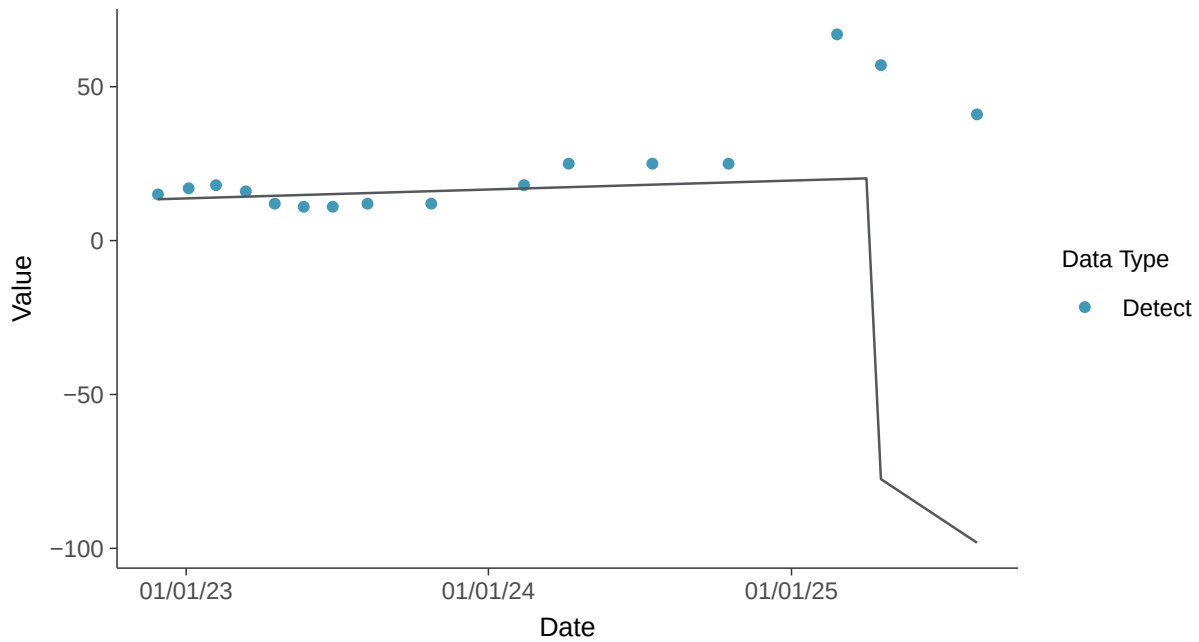
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-09 (mg/L)



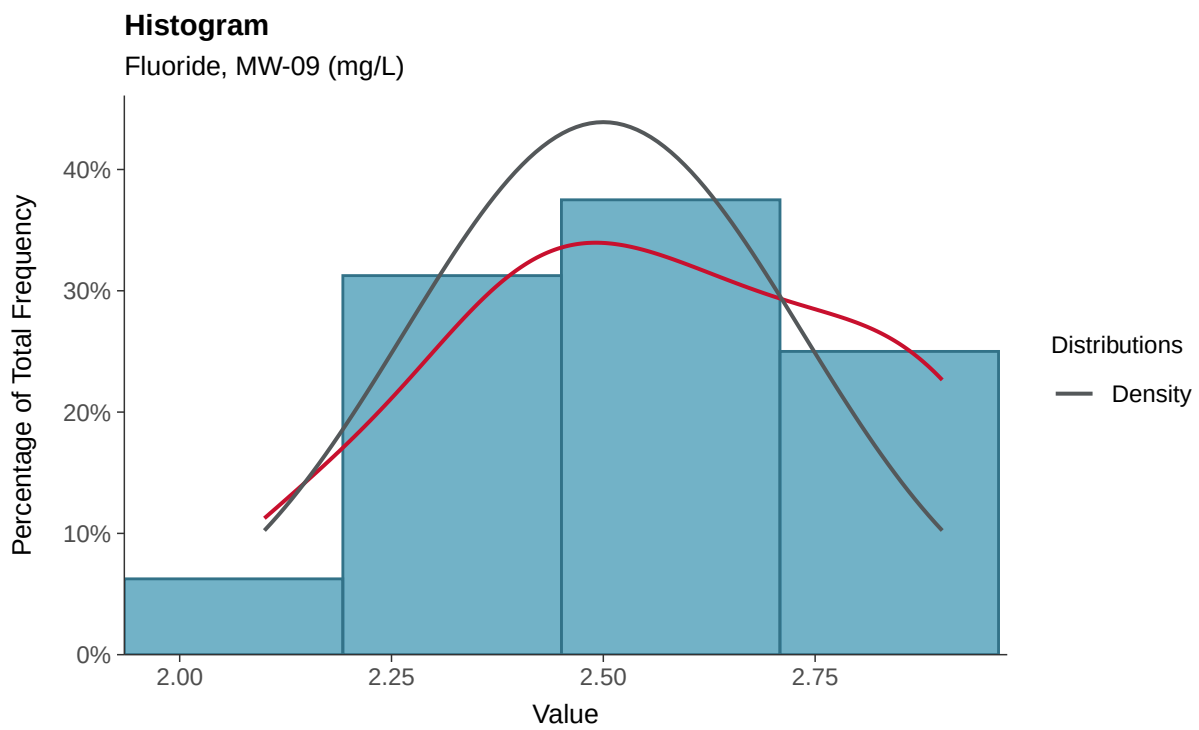
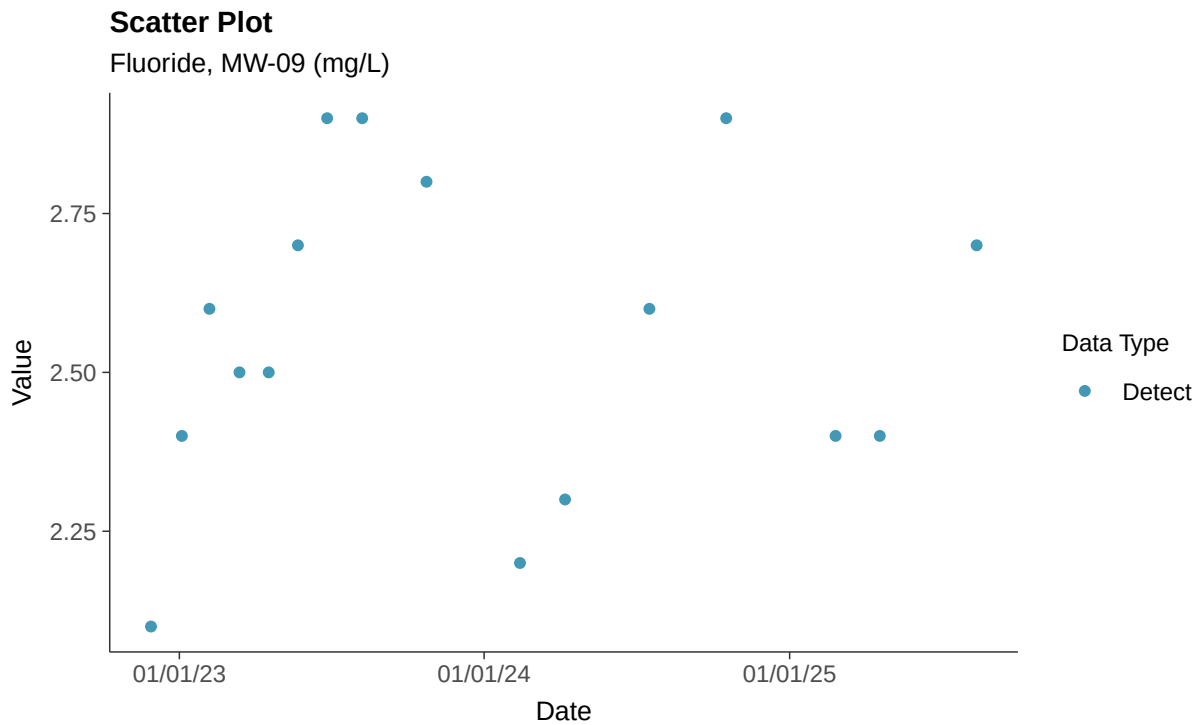
Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-09 (mg/L)



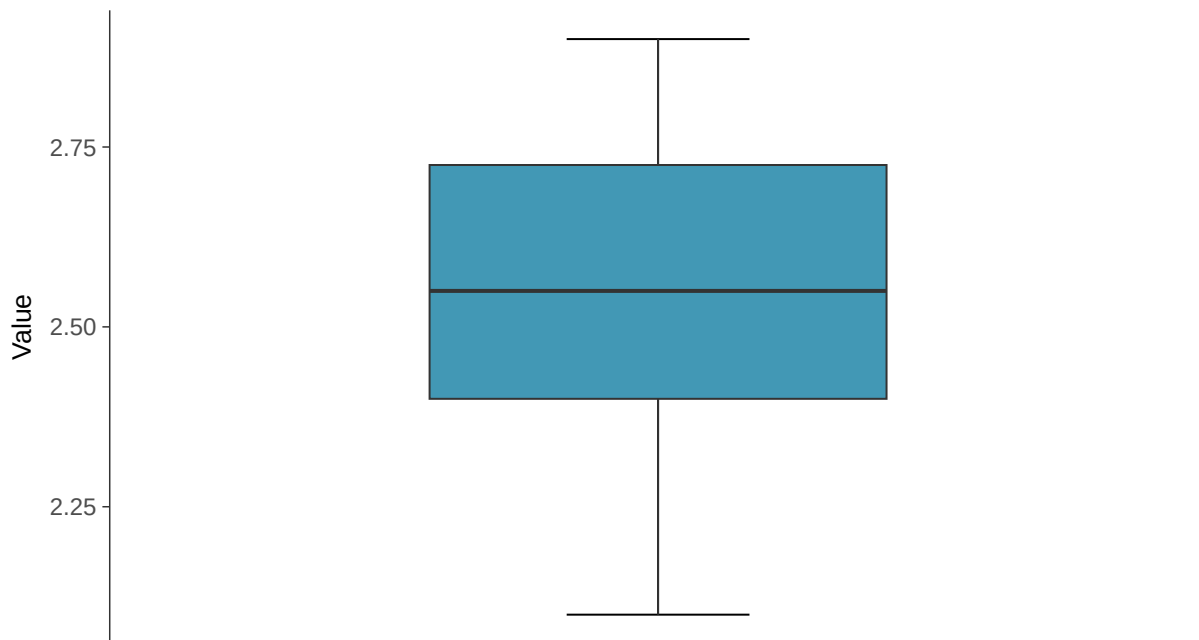
Appendix III: Fluoride, MW-09

ID: 19_2_3_112



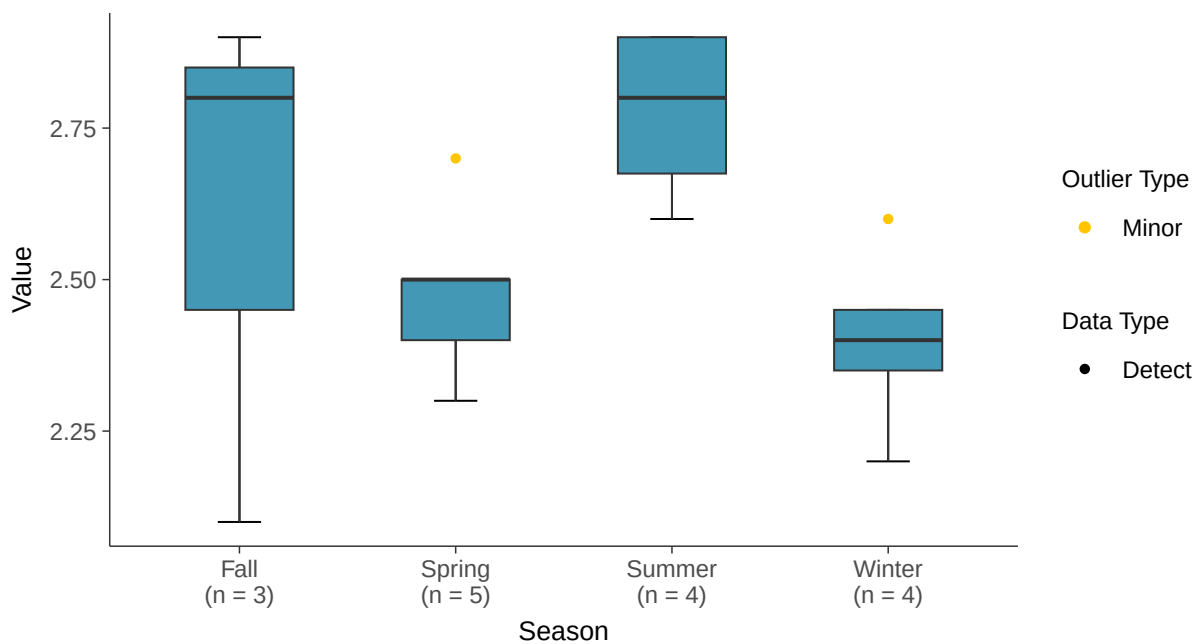
Boxplot

Fluoride, MW-09 (mg/L)



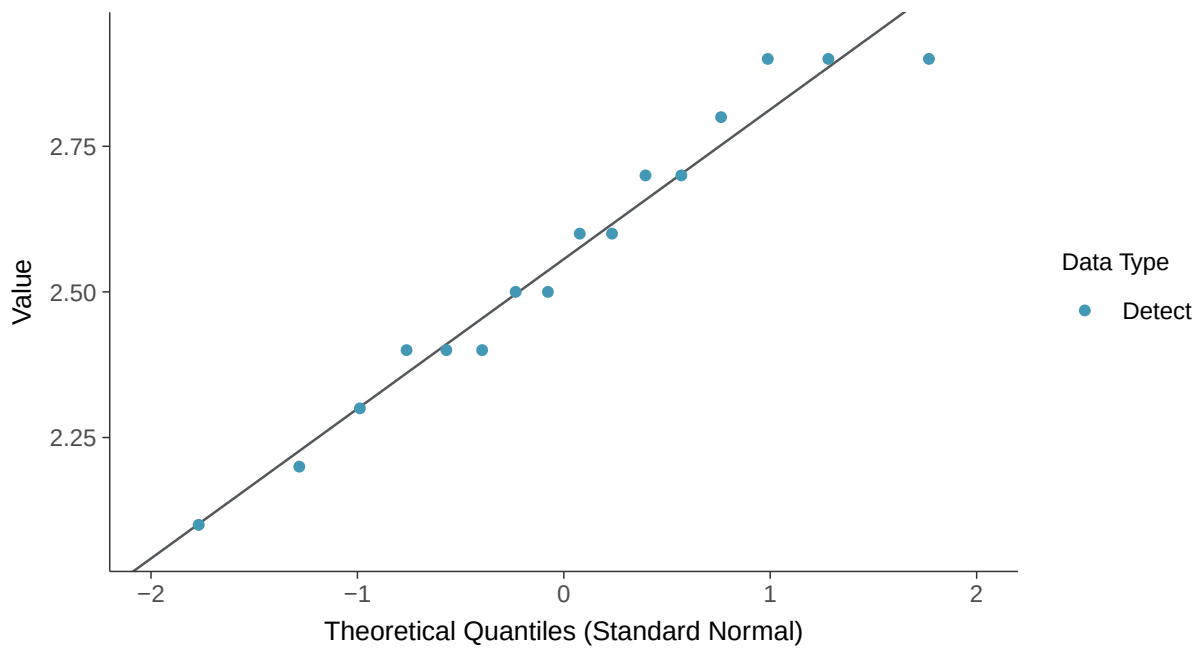
Boxplot by Season

Fluoride, MW-09 (mg/L)



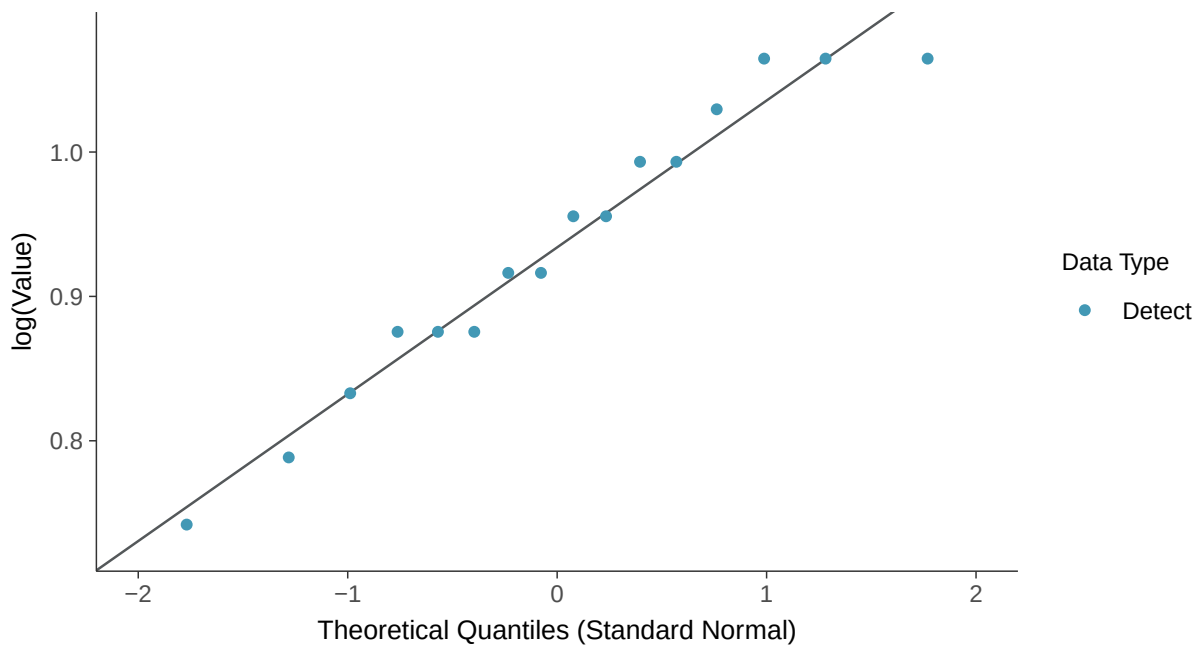
Normal Q-Q plot

Fluoride, MW-09 (mg/L)



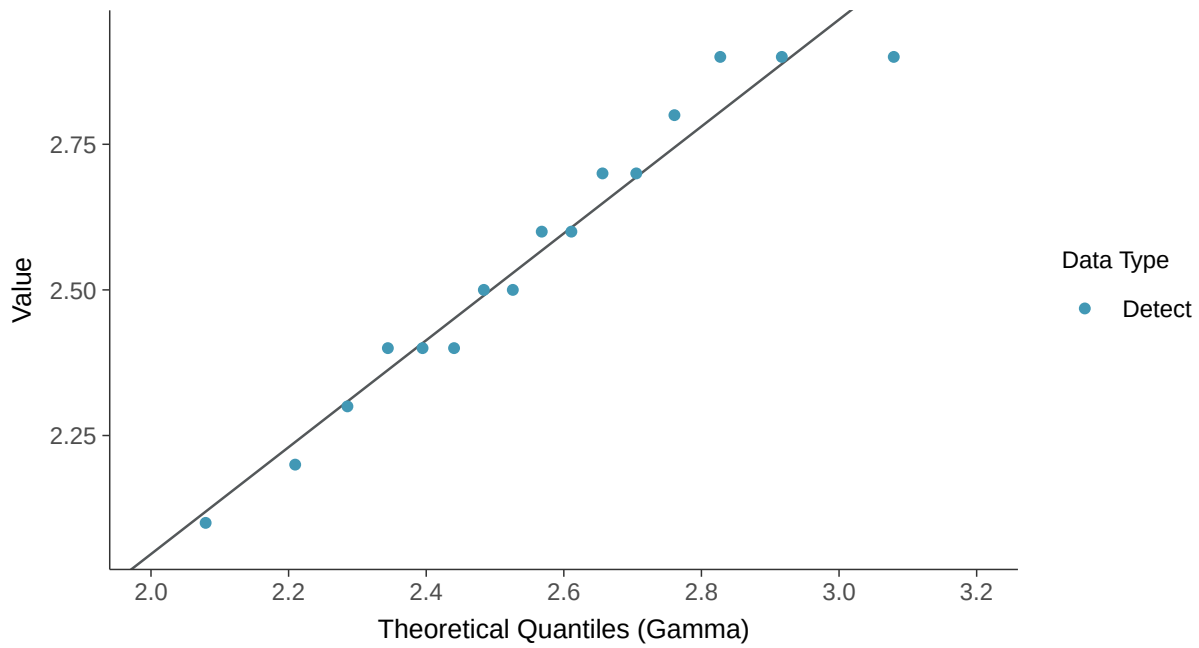
Lognormal Q-Q plot

Fluoride, MW-09 (mg/L)



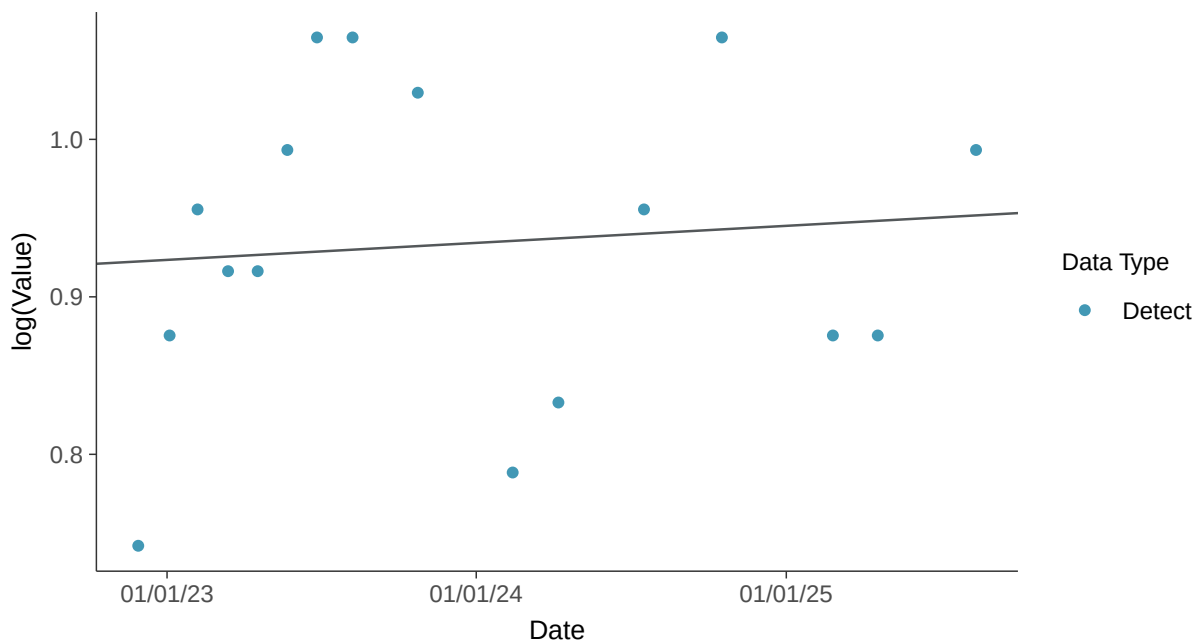
Gamma Q-Q plot

Fluoride, MW-09 (mg/L)



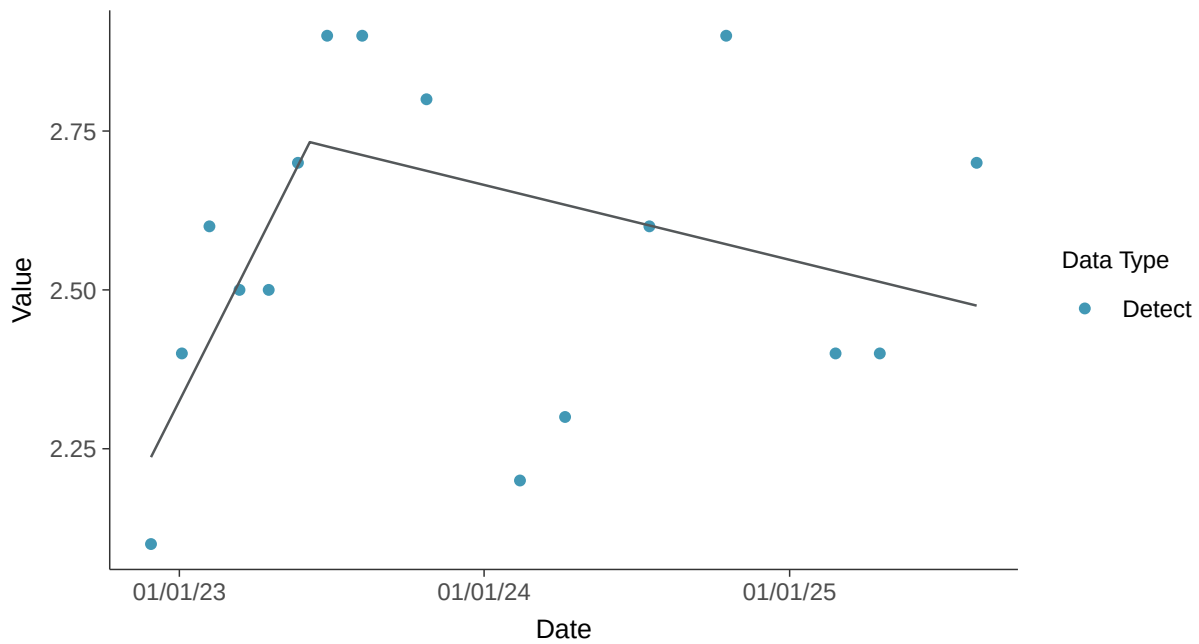
Trend Regression: Lognormal MLE

Fluoride, MW-09 (mg/L)



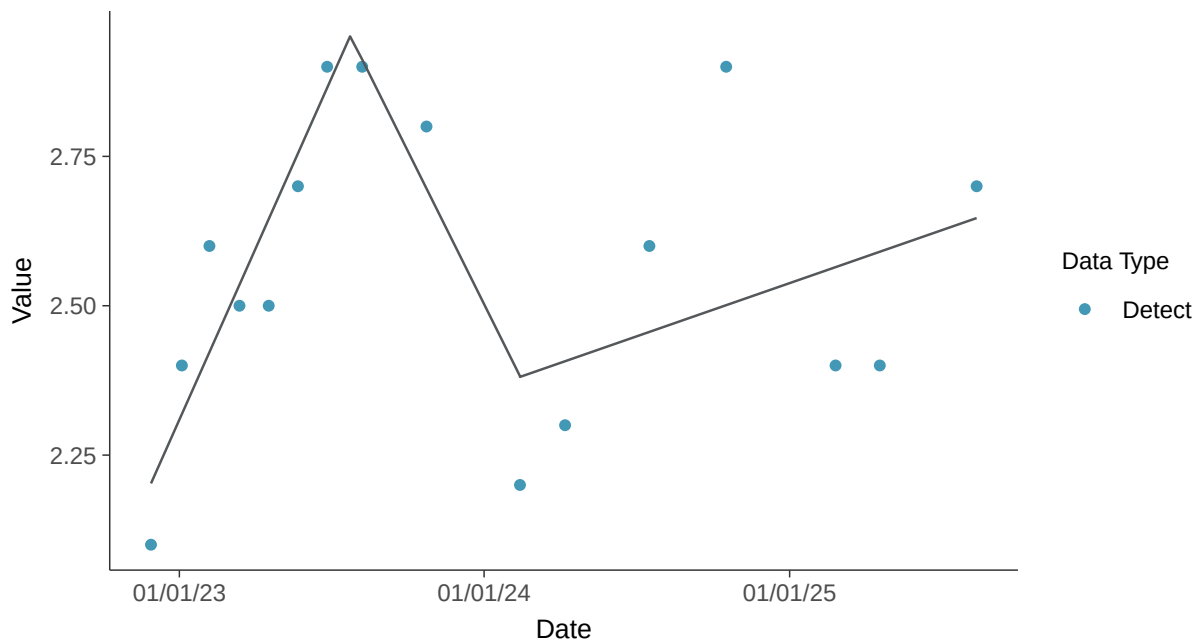
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-09 (mg/L)



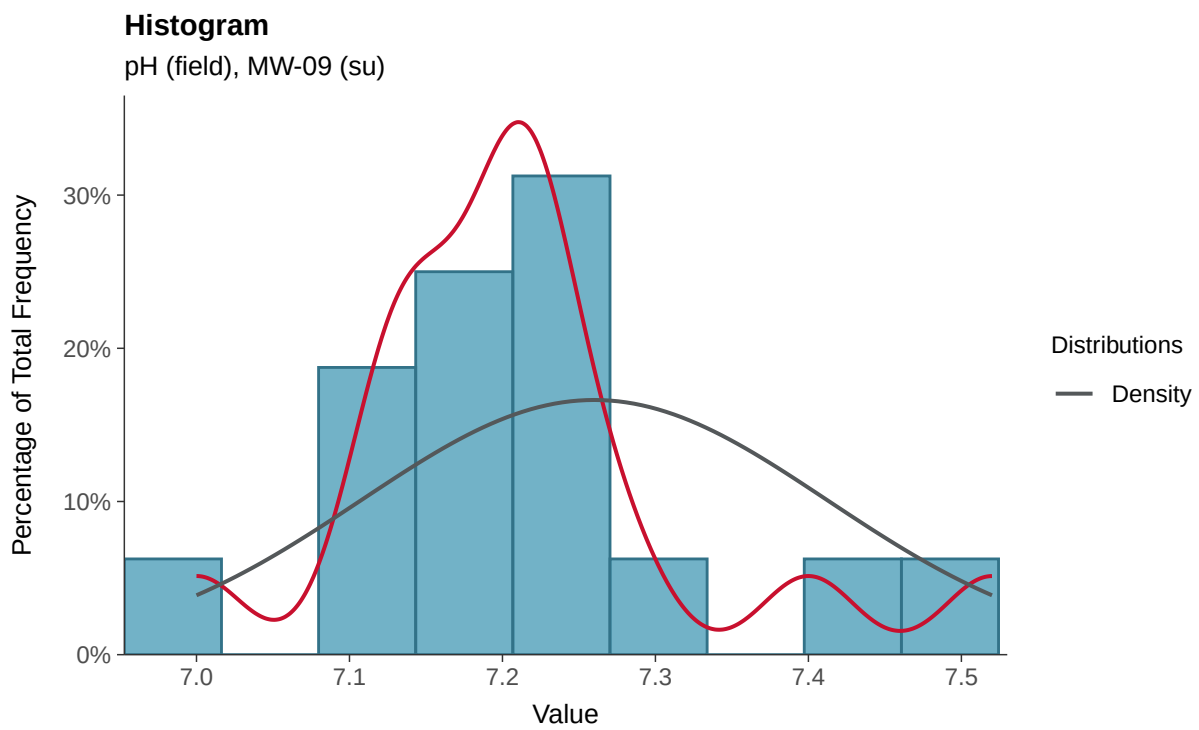
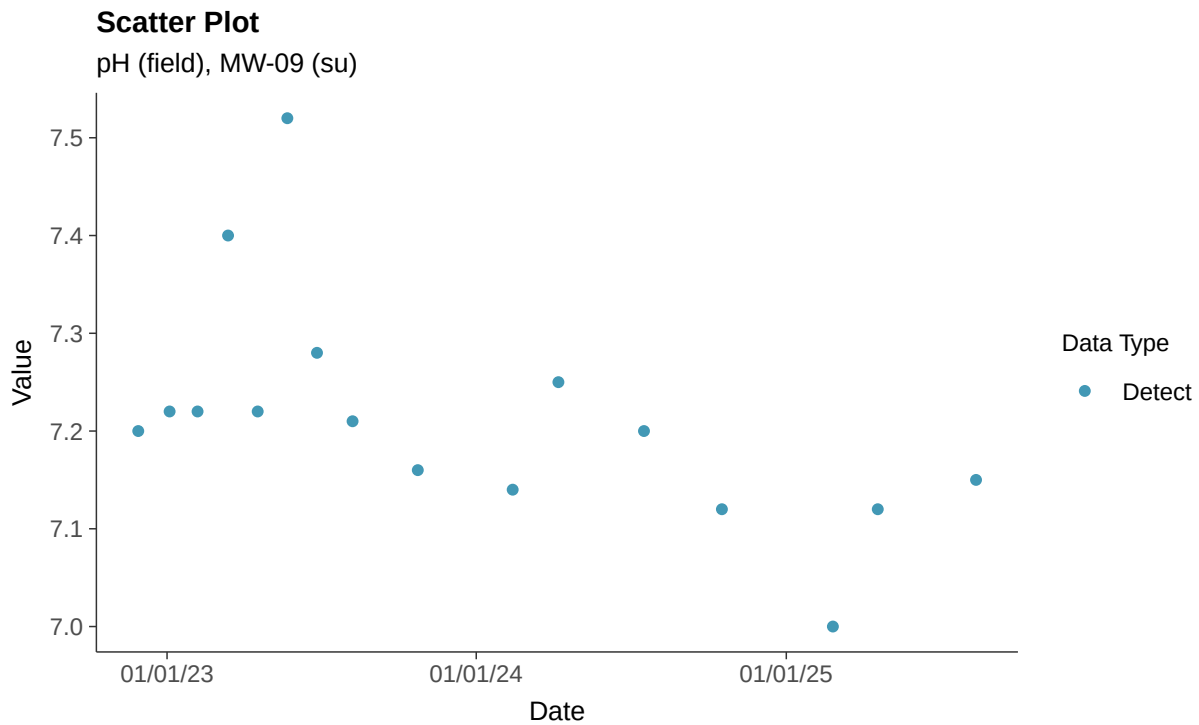
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-09 (mg/L)



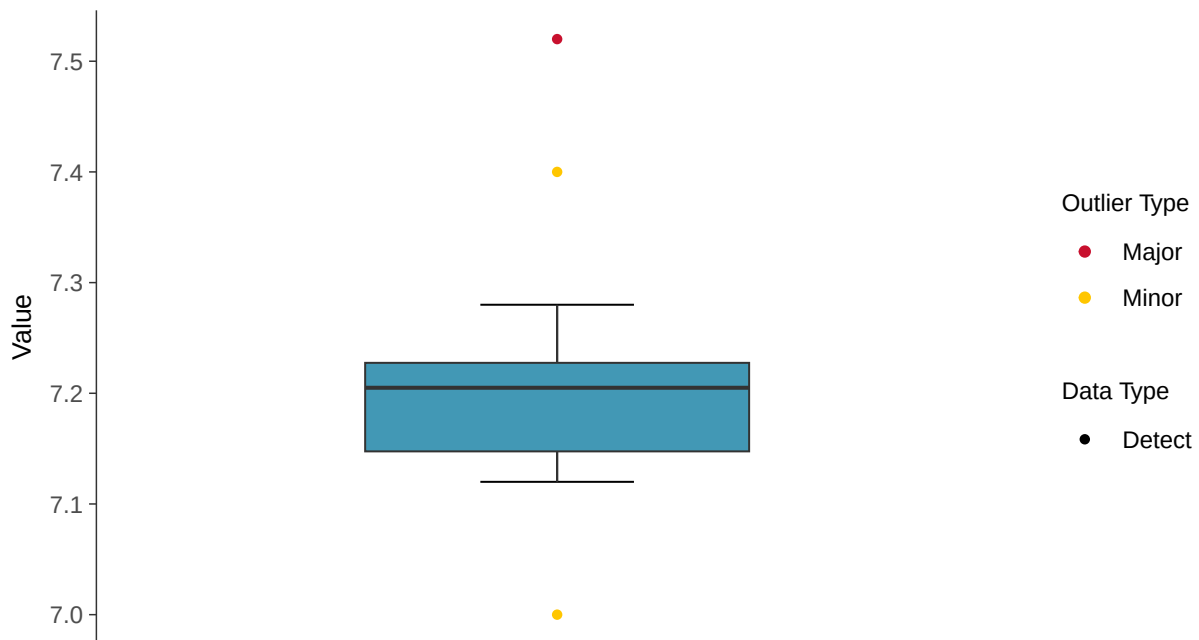
Appendix III: pH (field), MW-09

ID: 19_2_3_120



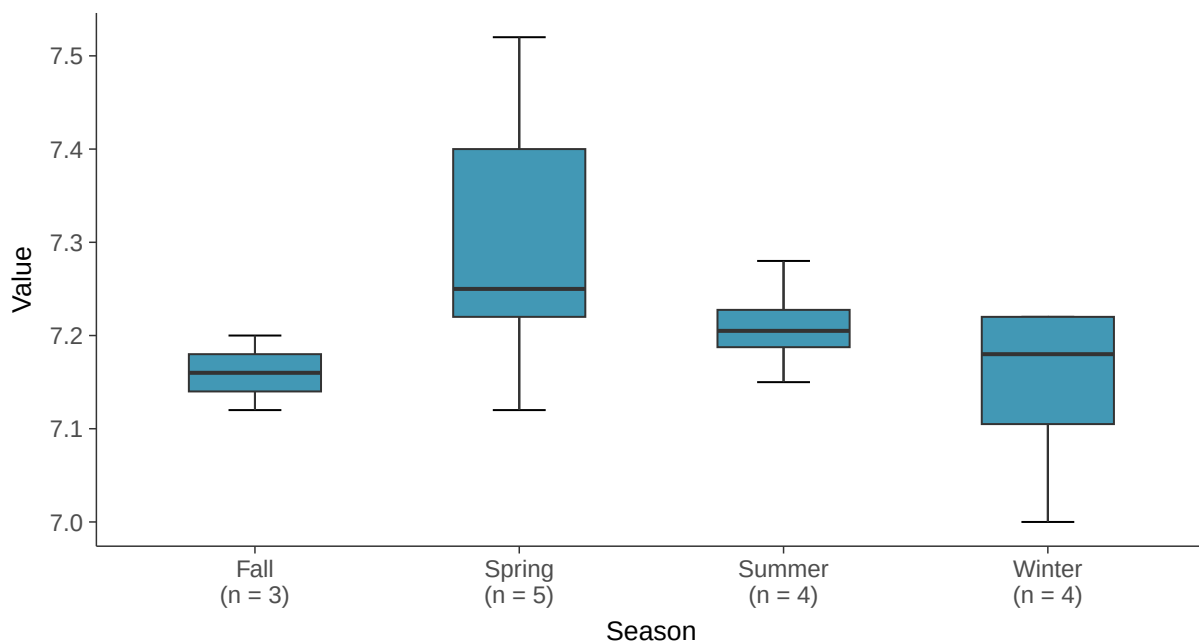
Boxplot

pH (field), MW-09 (su)

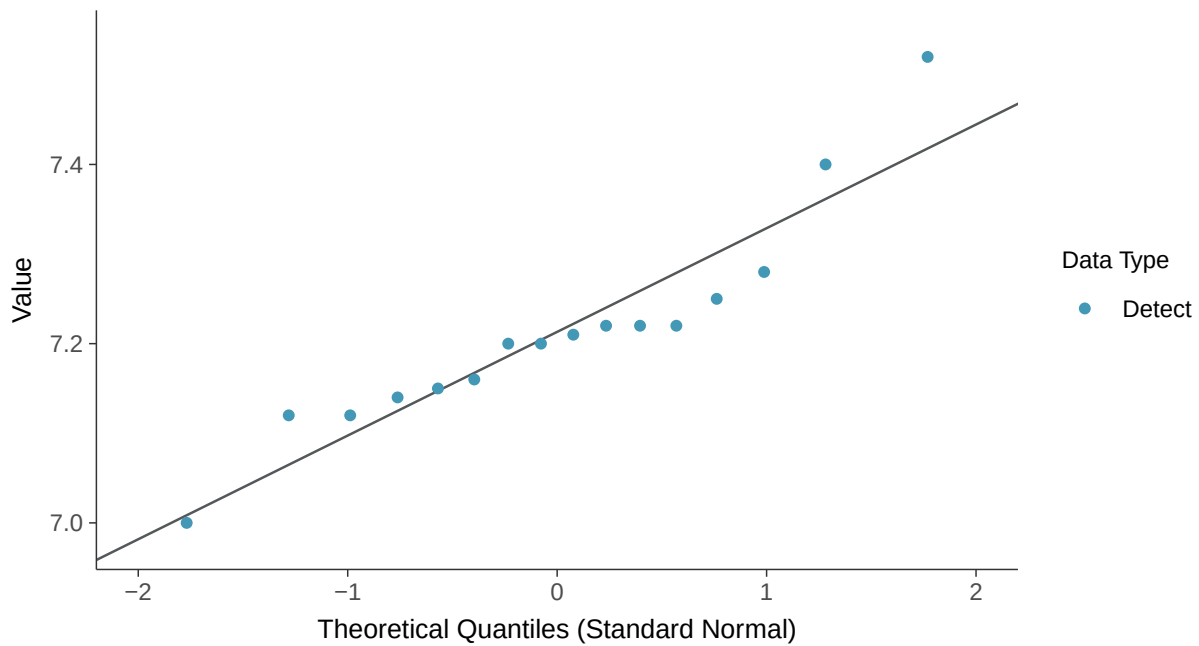


Boxplot by Season

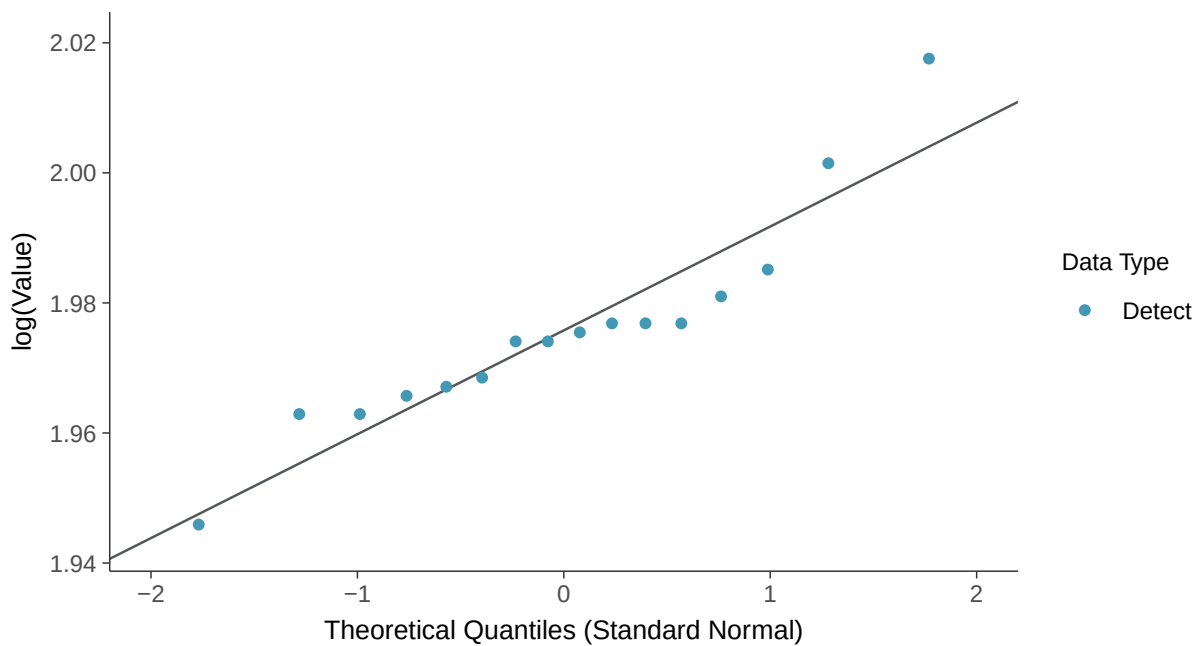
pH (field), MW-09 (su)



Normal Q-Q plot
pH (field), MW-09 (su)

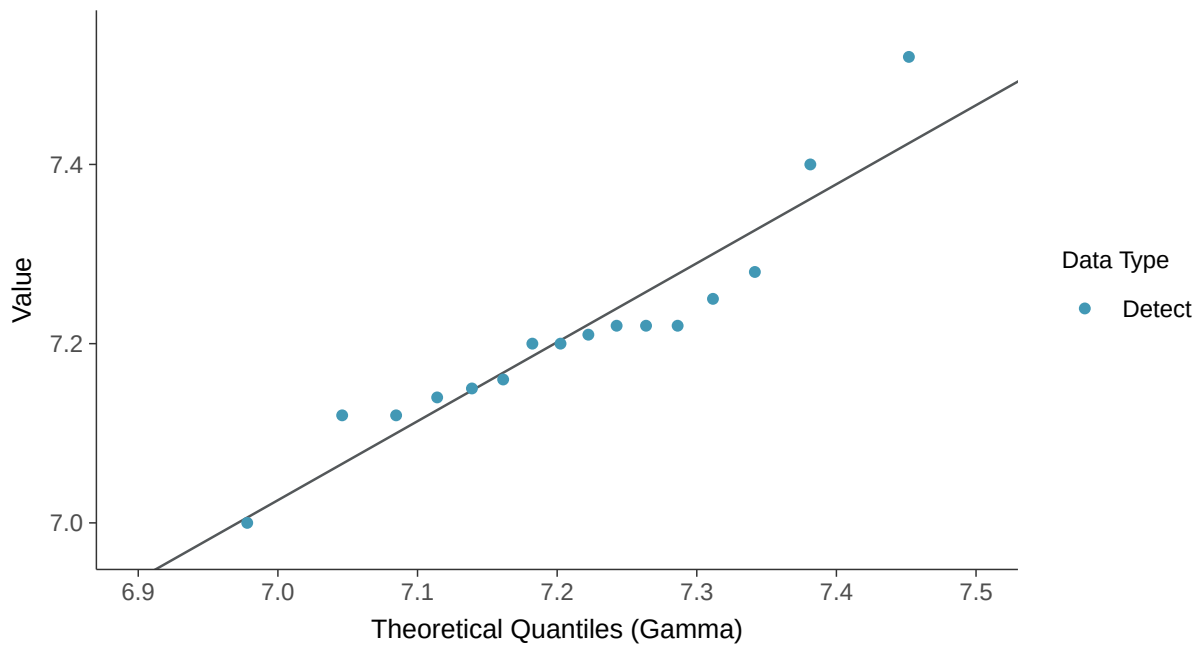


Lognormal Q-Q plot
pH (field), MW-09 (su)



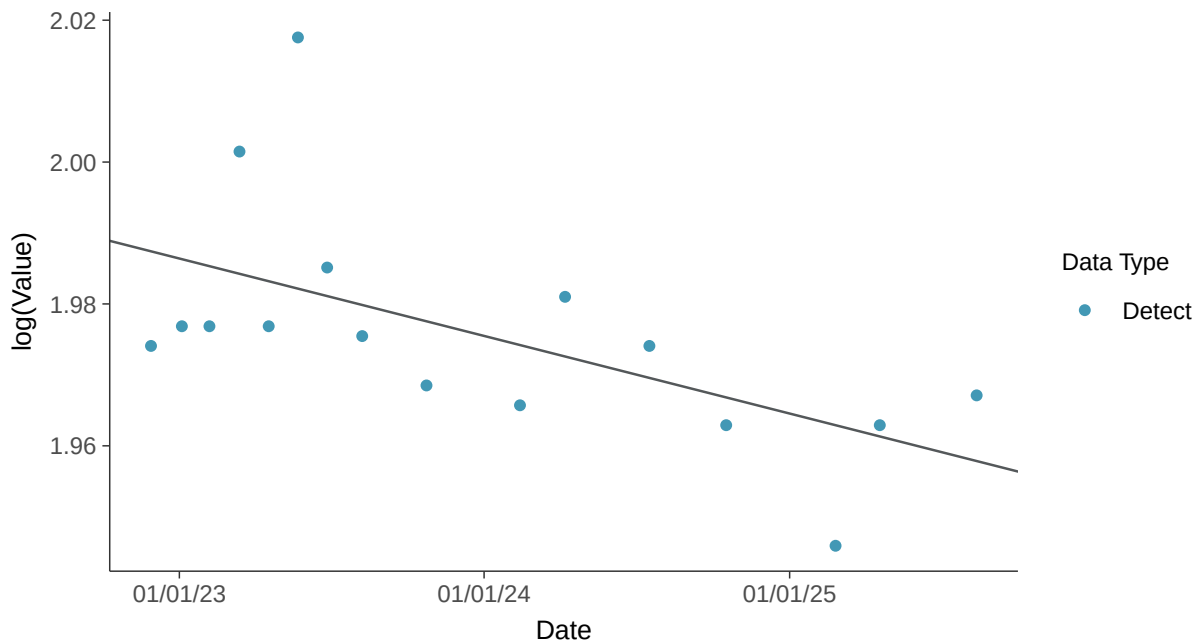
Gamma Q-Q plot

pH (field), MW-09 (su)



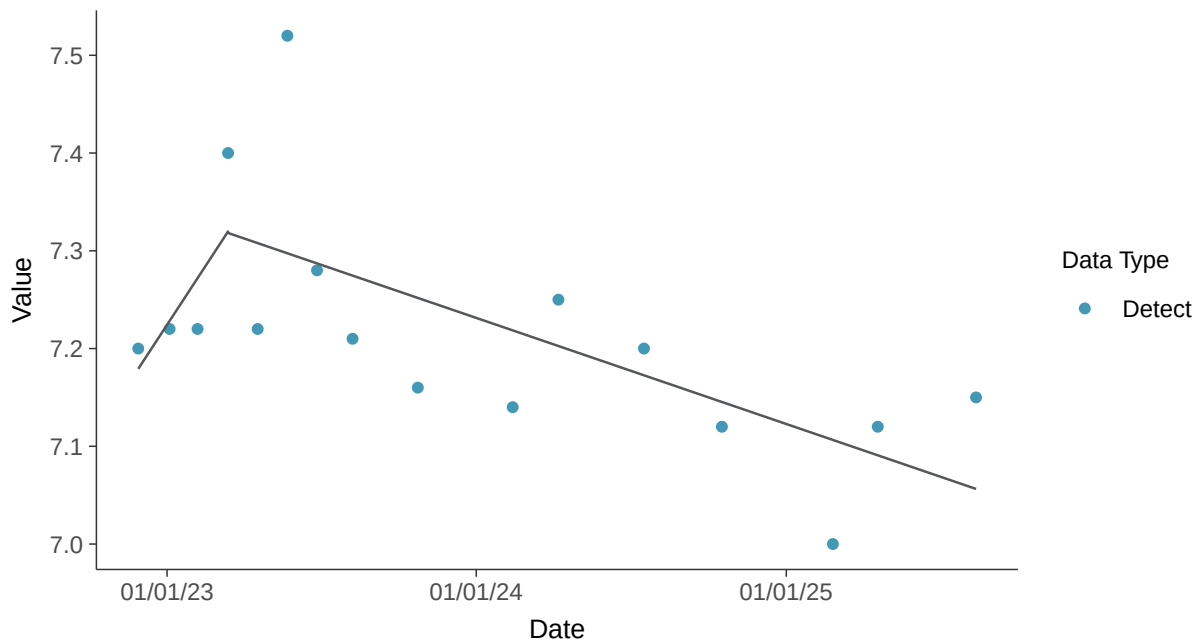
Trend Regression: Lognormal MLE

pH (field), MW-09 (su)



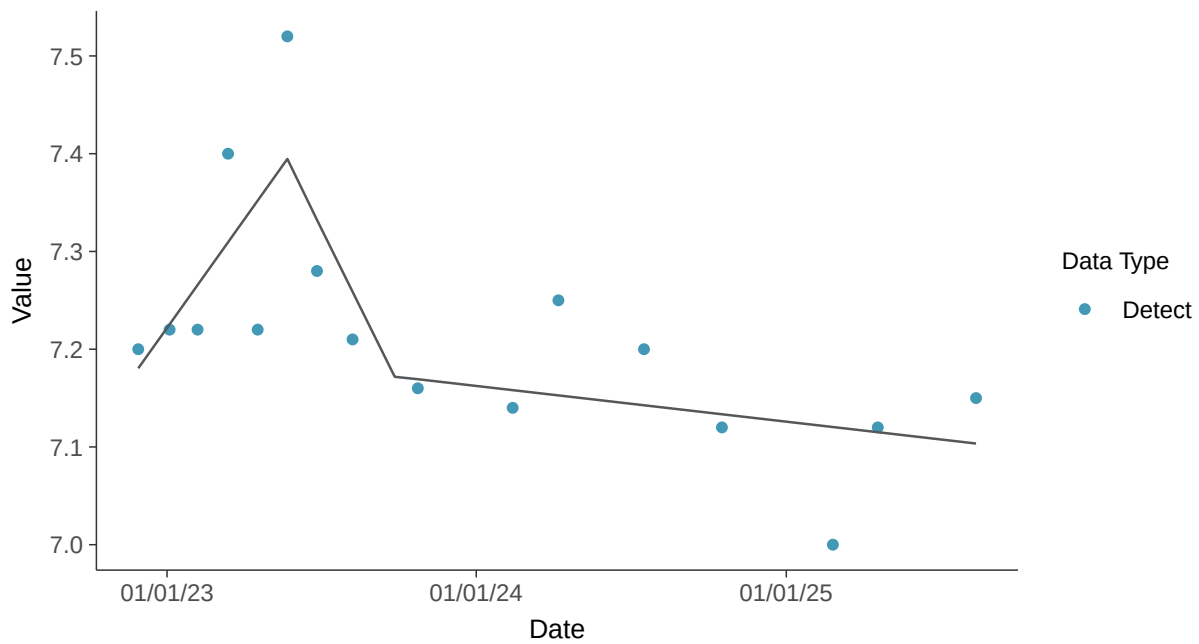
Trend Regression: Piecewise Linear-Linear

pH (field), MW-09 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-09 (su)

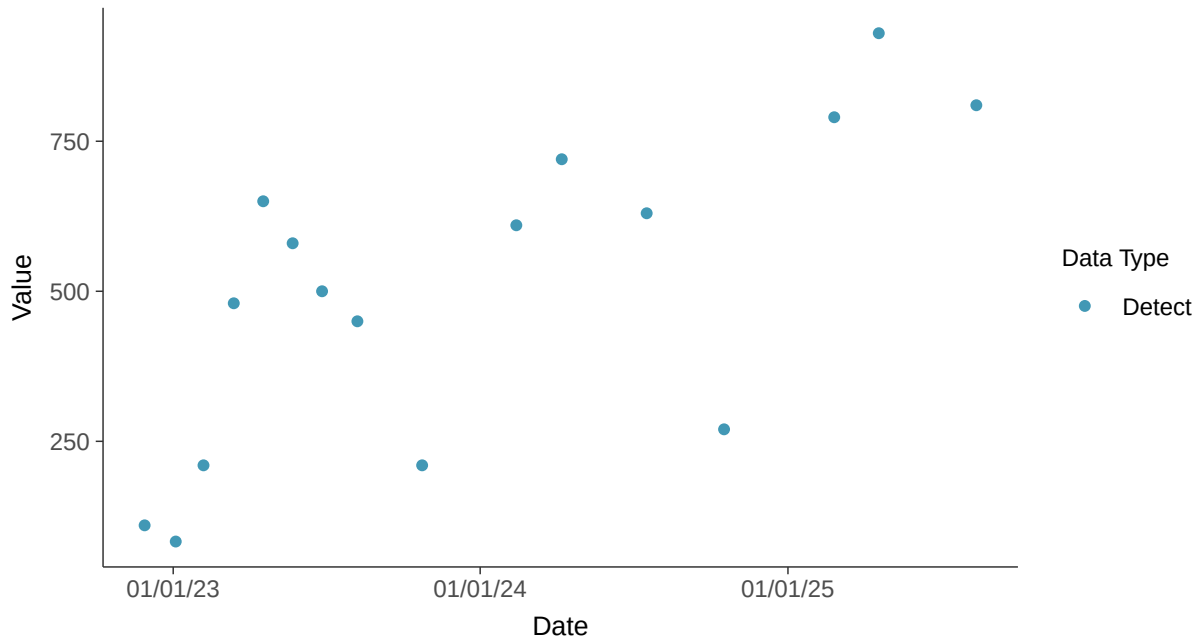


Appendix III: Sulfate (as SO₄), MW-09

ID: 19_2_3_124

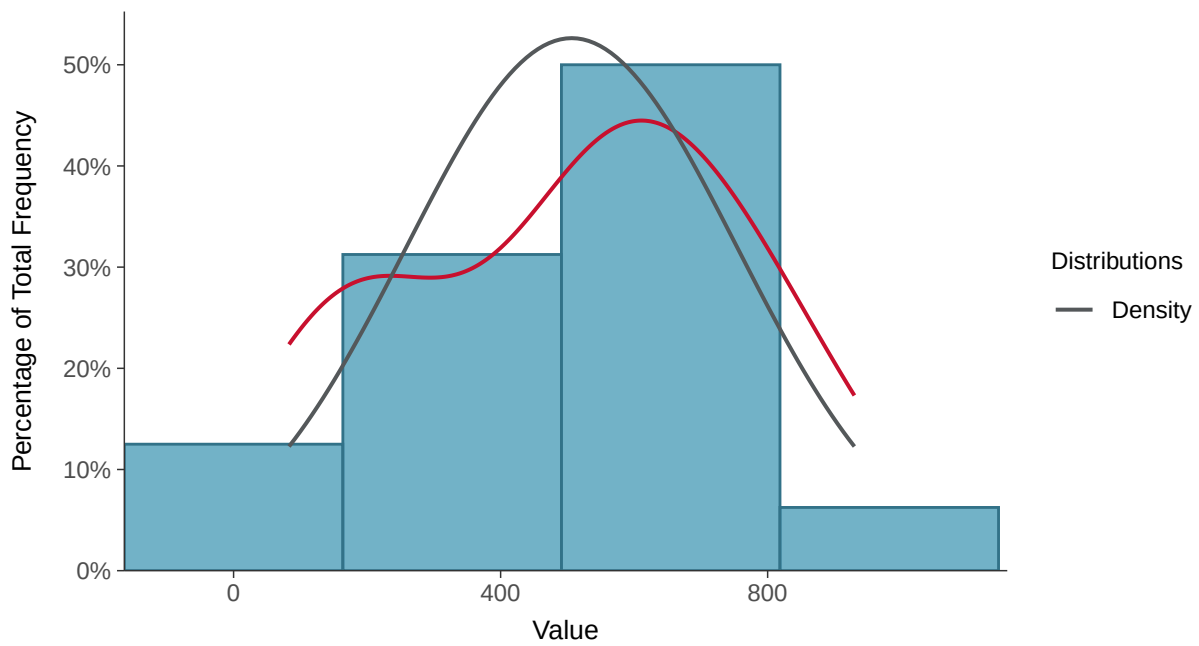
Scatter Plot

Sulfate (as SO₄), MW-09 (mg/L)



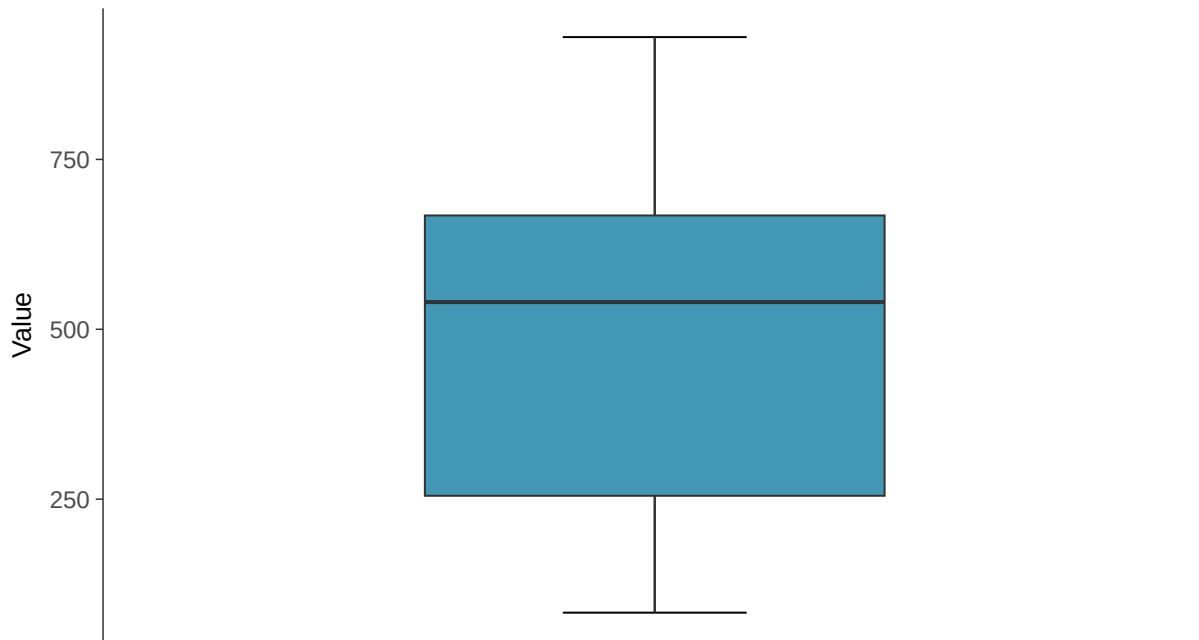
Histogram

Sulfate (as SO₄), MW-09 (mg/L)



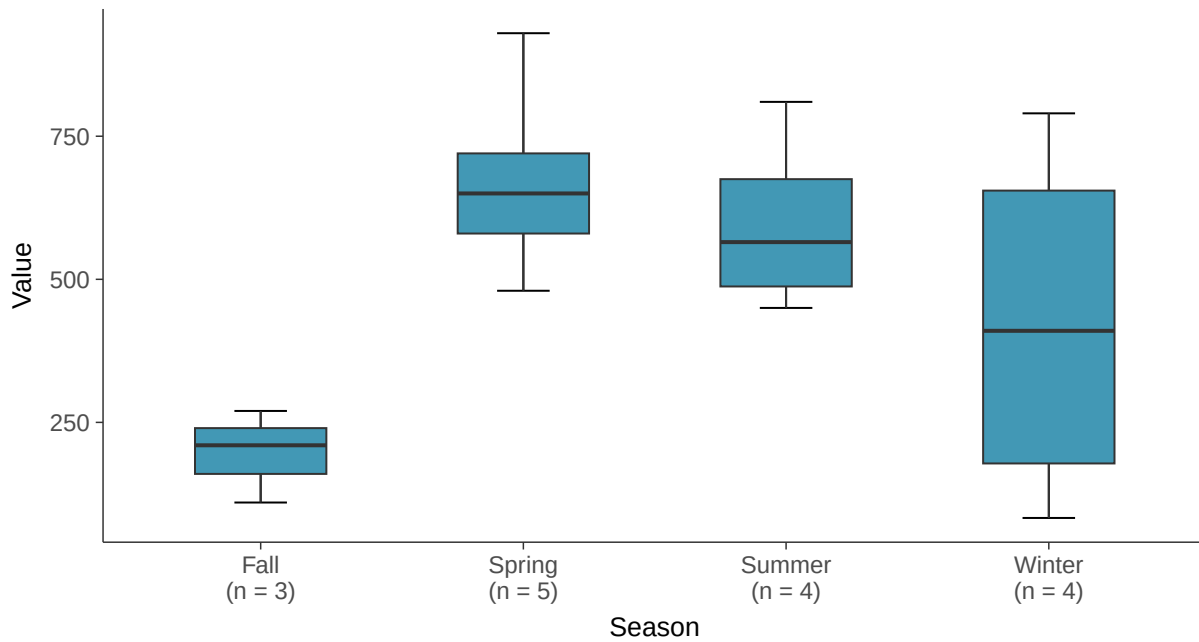
Boxplot

Sulfate (as SO₄), MW-09 (mg/L)



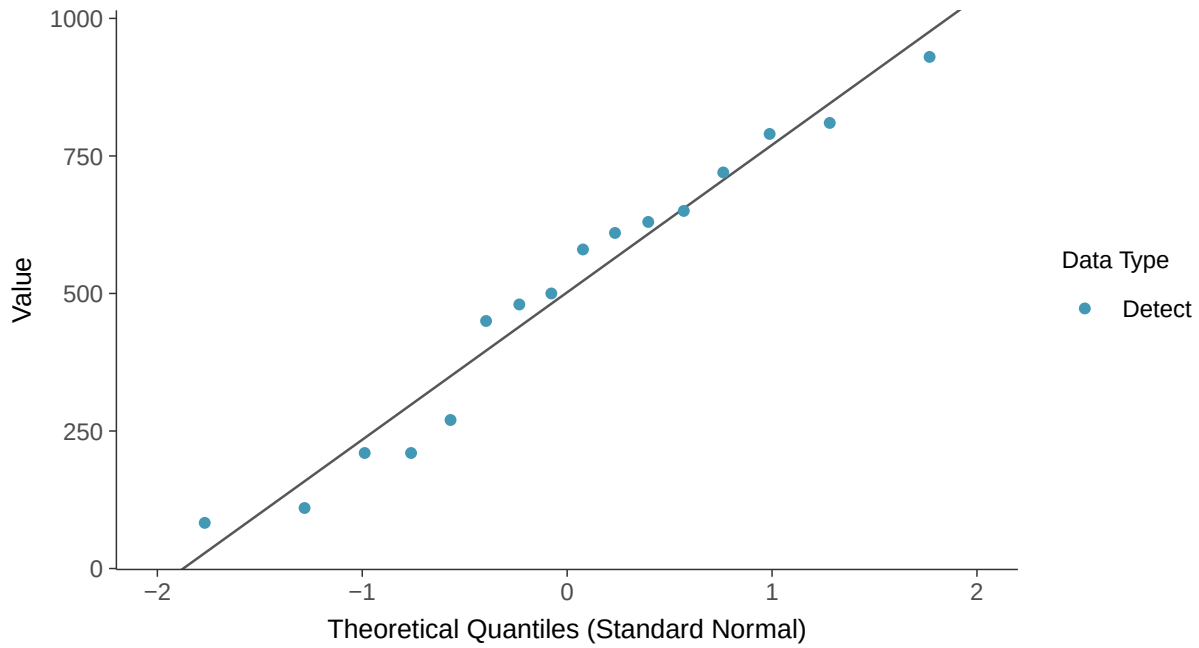
Boxplot by Season

Sulfate (as SO₄), MW-09 (mg/L)



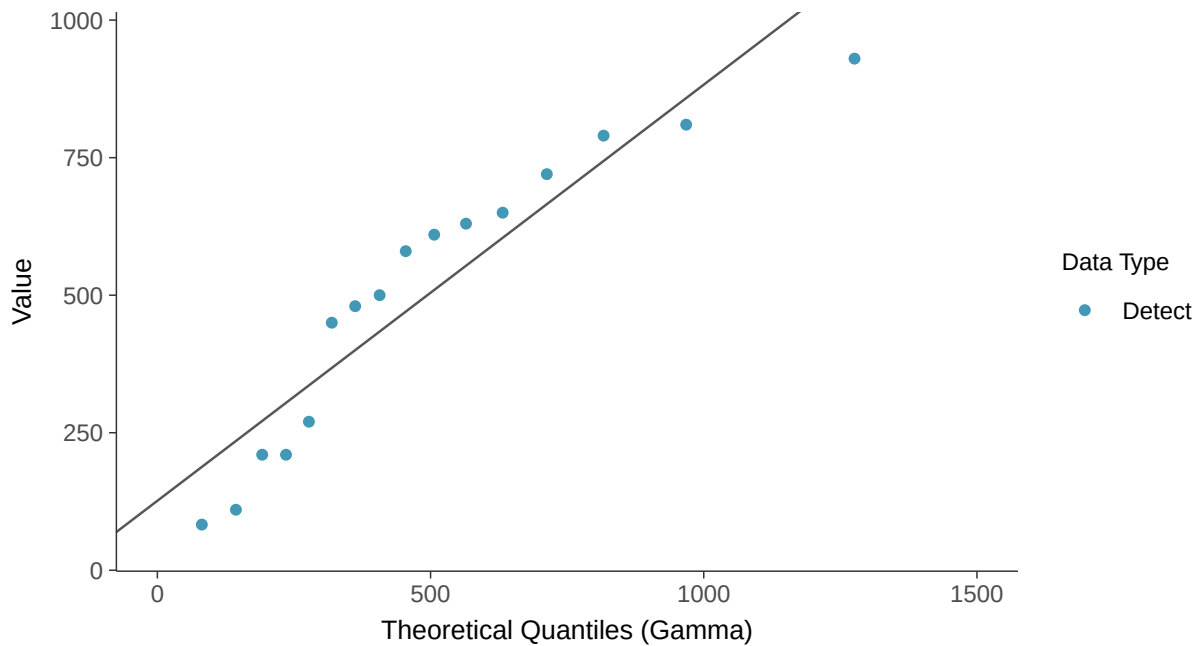
Normal Q-Q plot

Sulfate (as SO₄), MW-09 (mg/L)



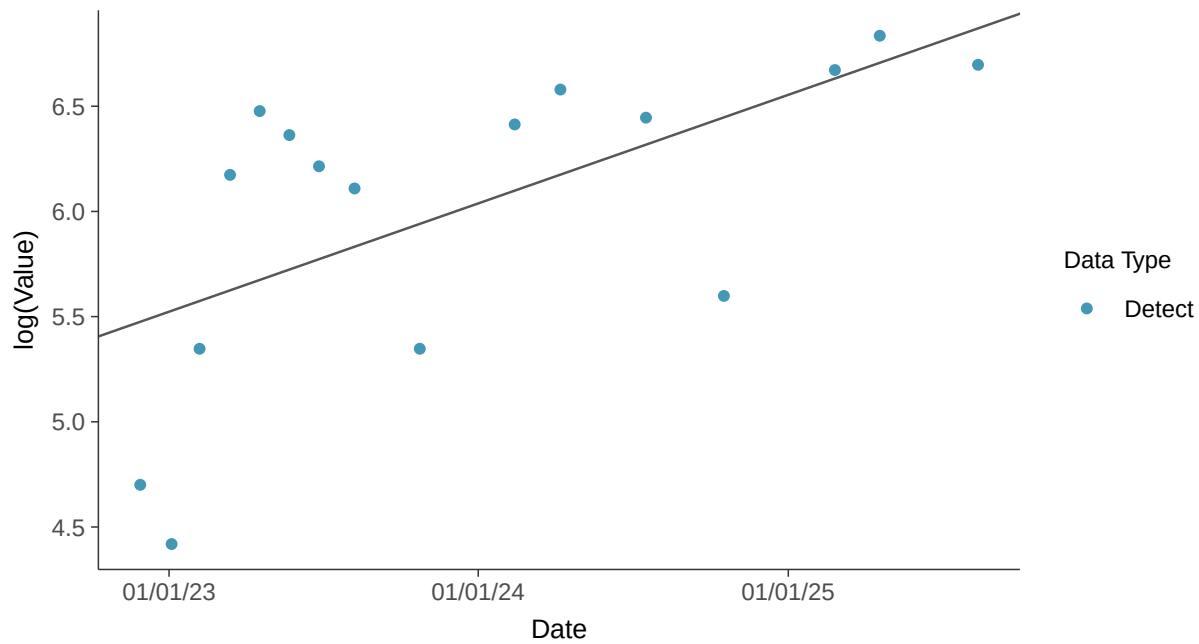
Gamma Q-Q plot

Sulfate (as SO₄), MW-09 (mg/L)



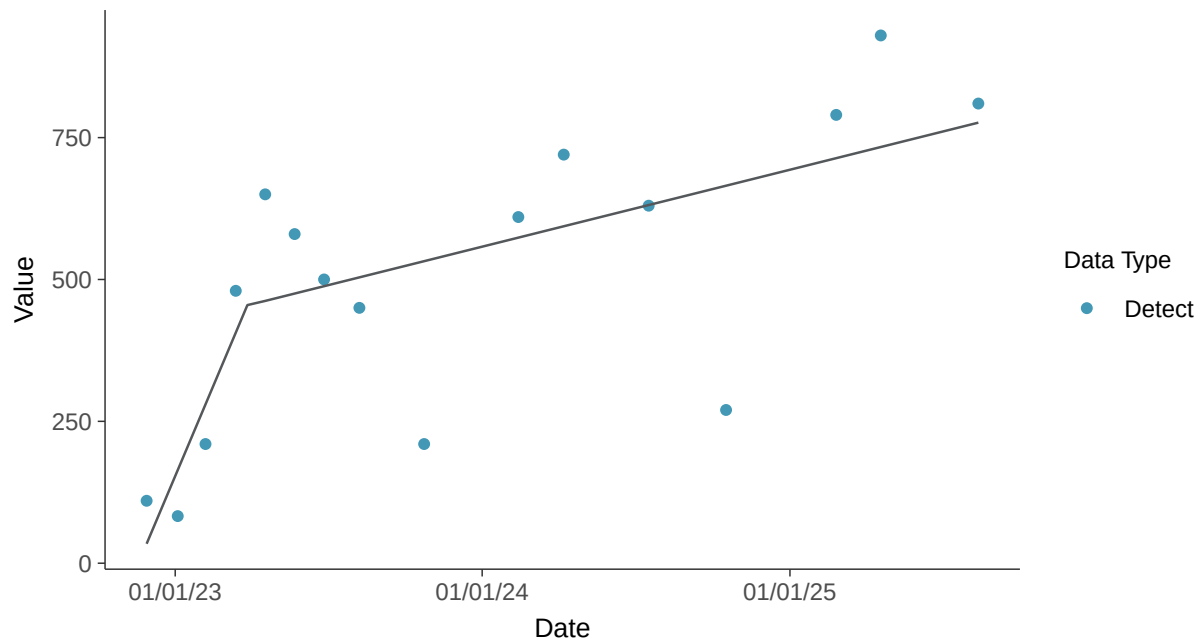
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-09 (mg/L)



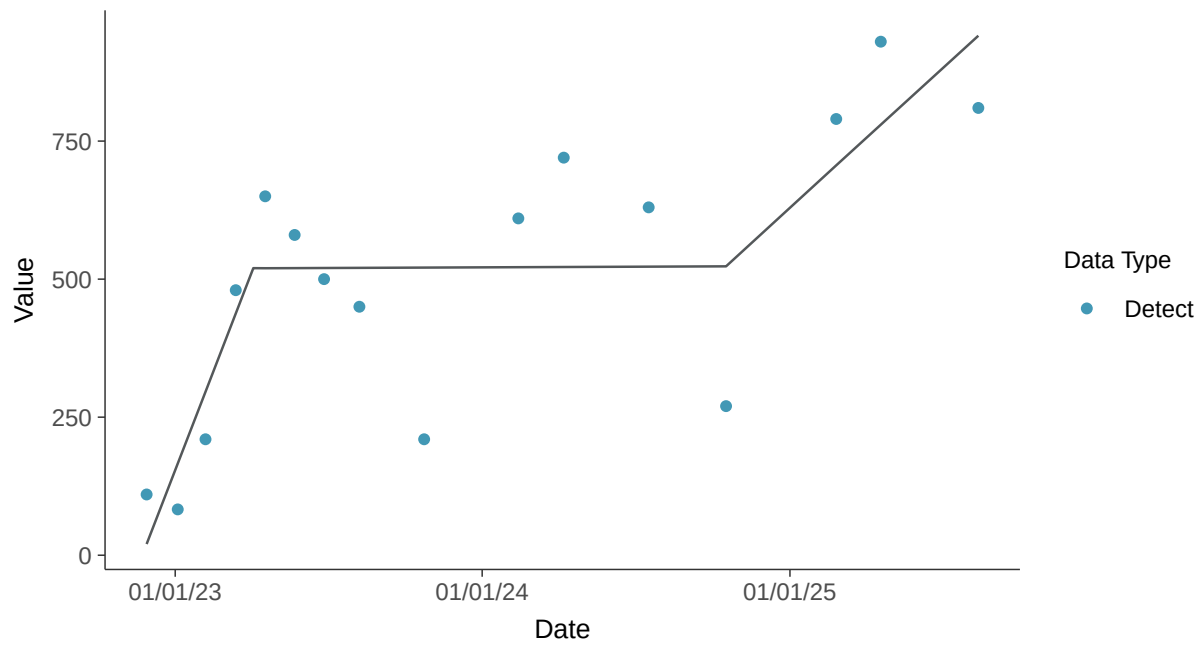
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-09 (mg/L)

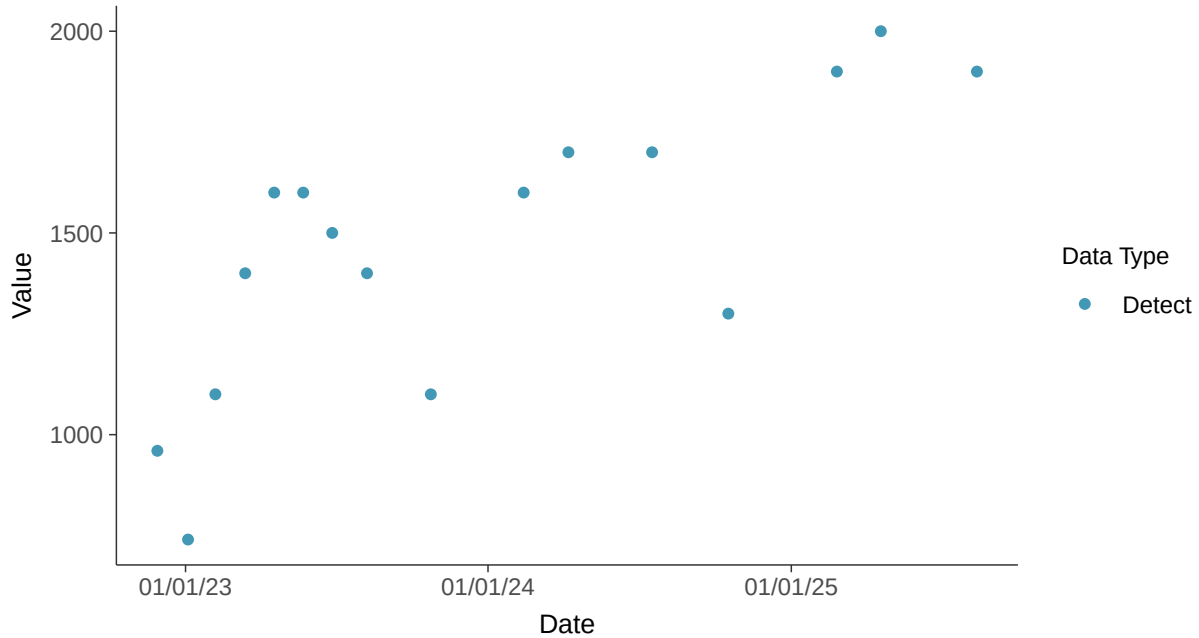


Appendix III: Total Dissolved Solids, MW-09

ID: 19_2_3_126

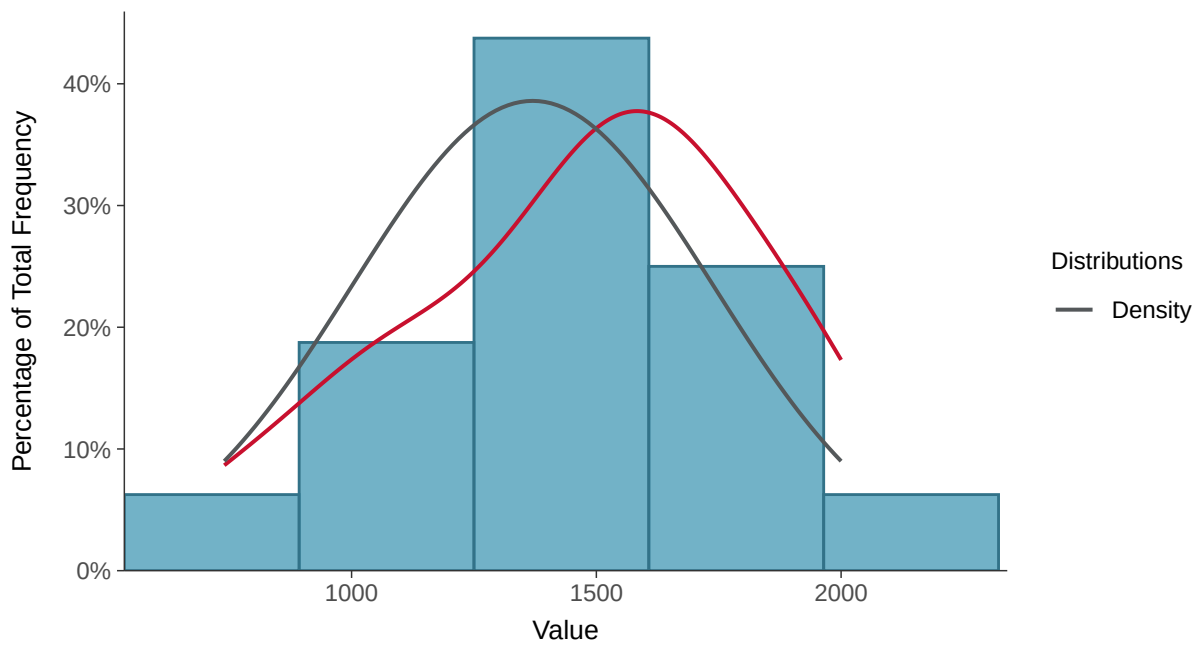
Scatter Plot

Total Dissolved Solids, MW-09 (mg/L)



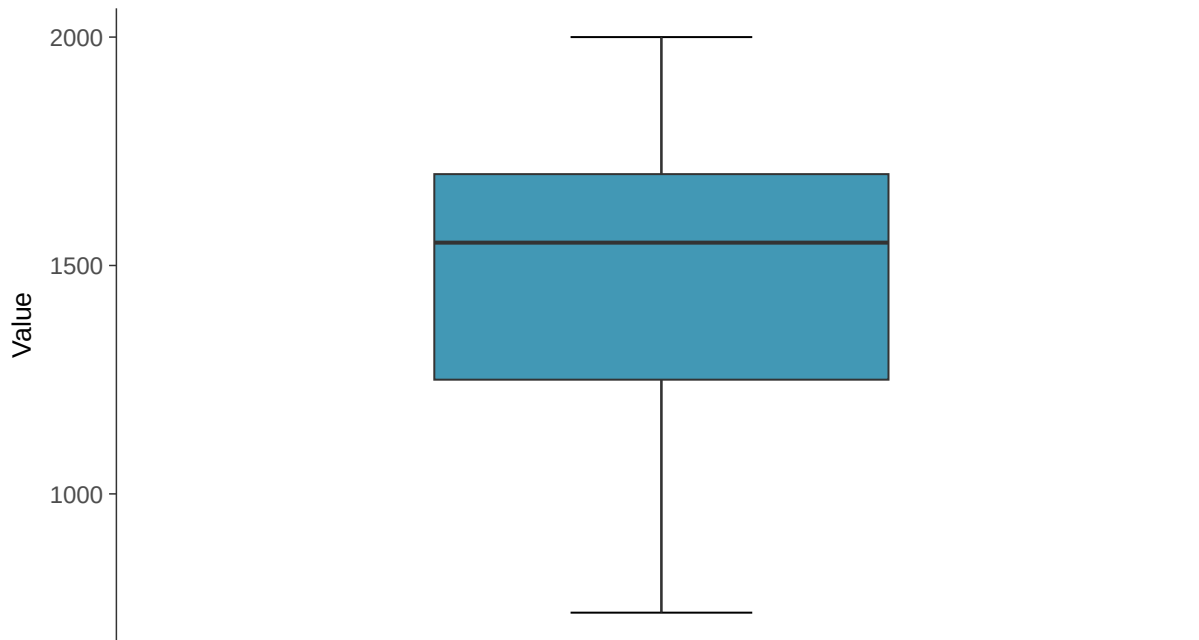
Histogram

Total Dissolved Solids, MW-09 (mg/L)



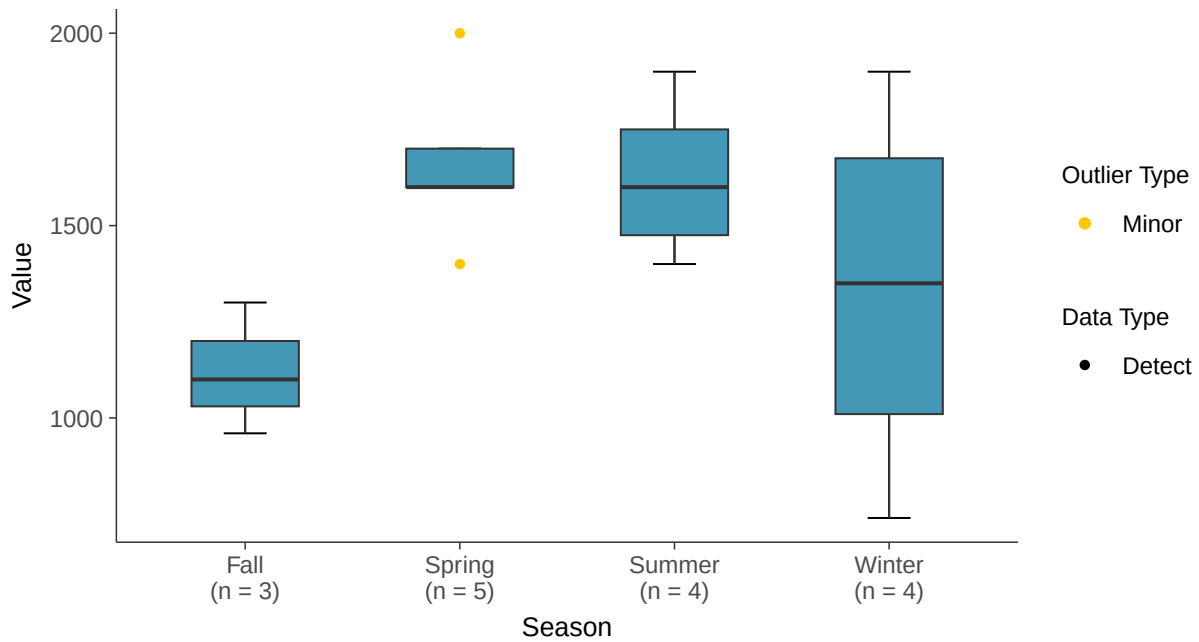
Boxplot

Total Dissolved Solids, MW-09 (mg/L)



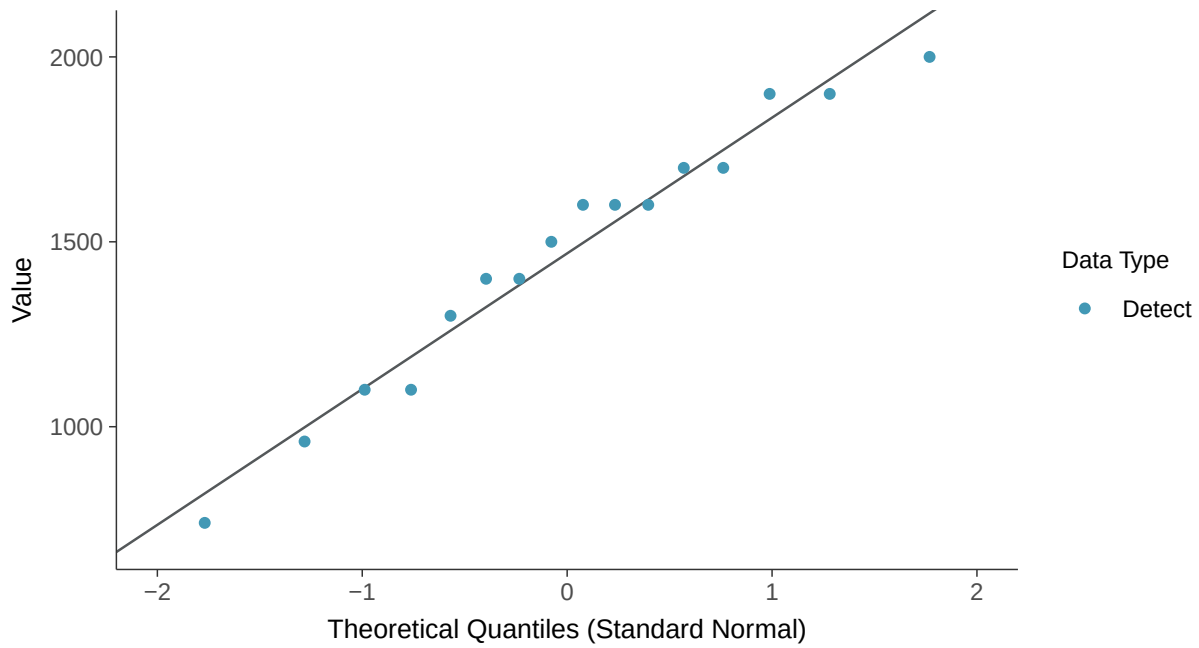
Boxplot by Season

Total Dissolved Solids, MW-09 (mg/L)



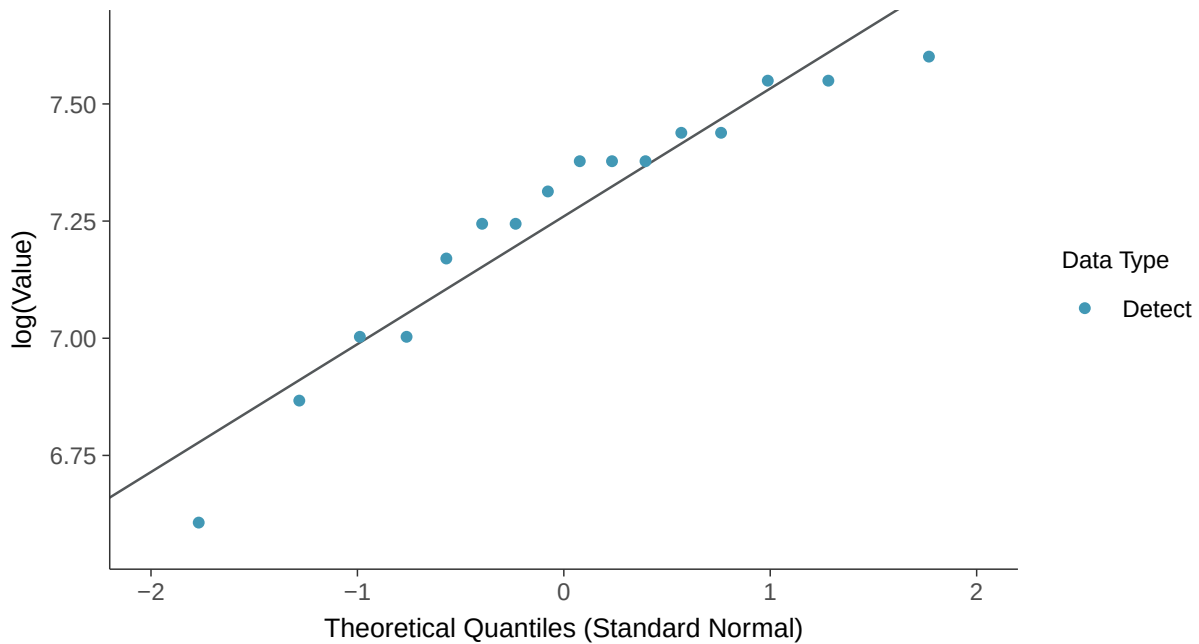
Normal Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



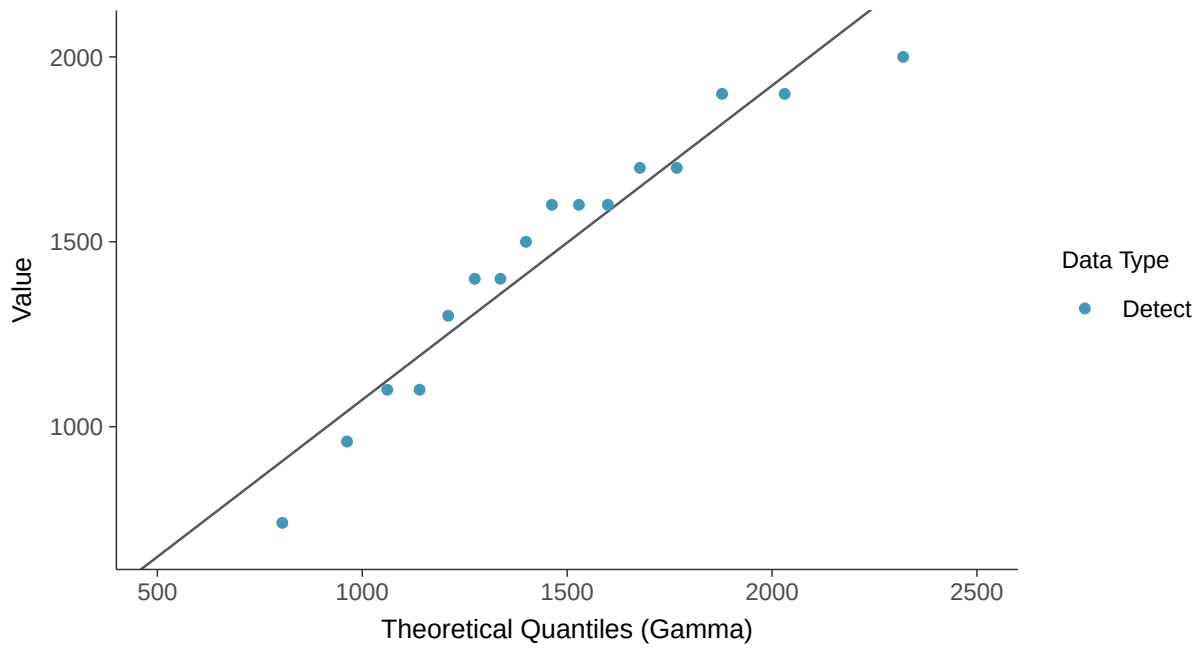
Lognormal Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



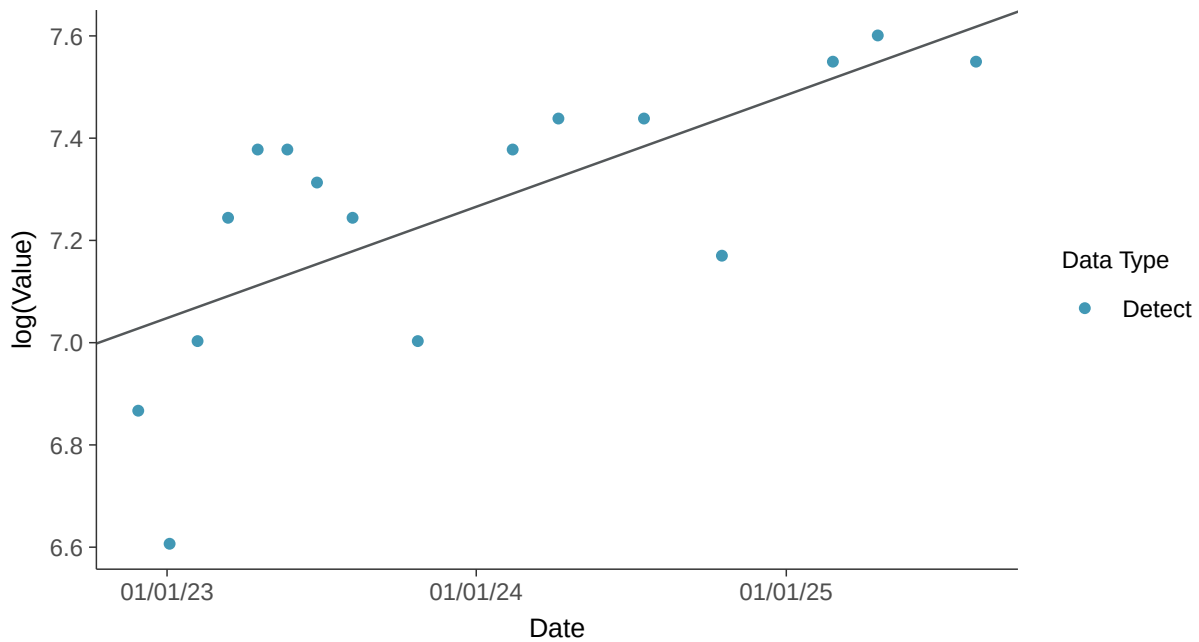
Gamma Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



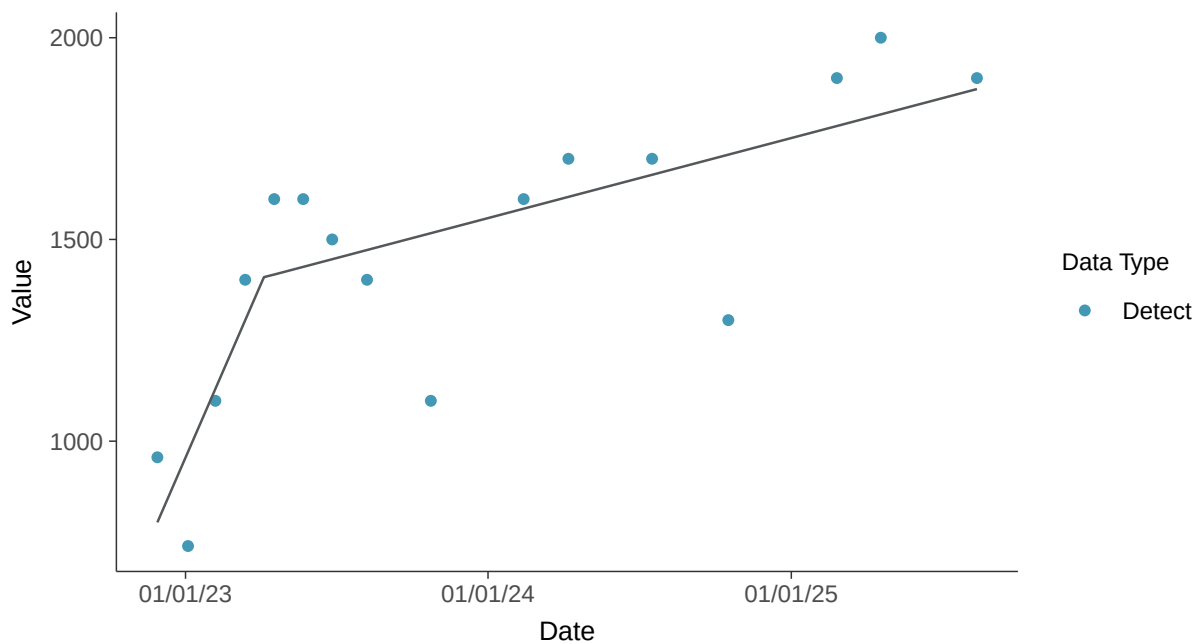
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-09 (mg/L)



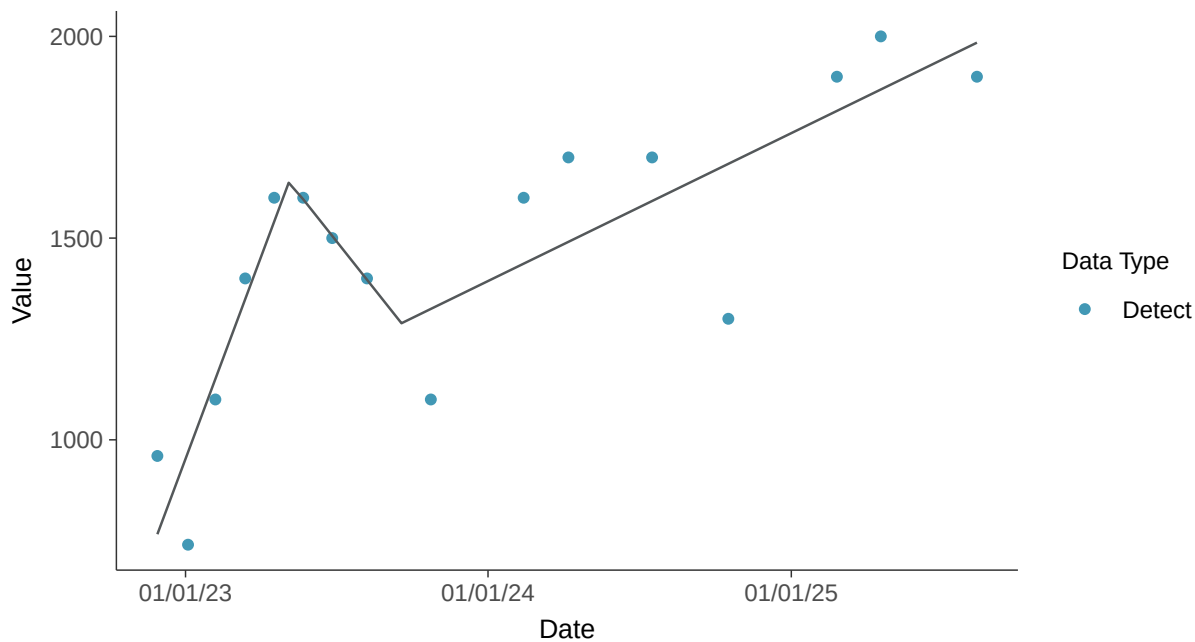
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-09 (mg/L)



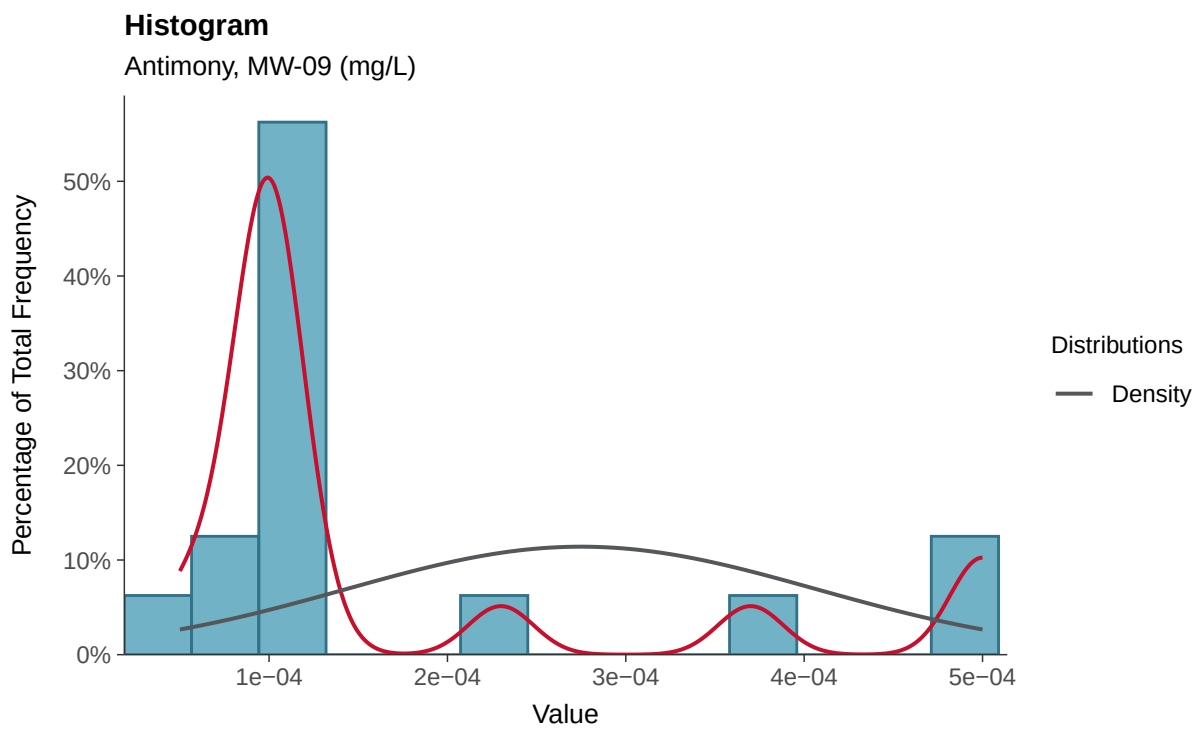
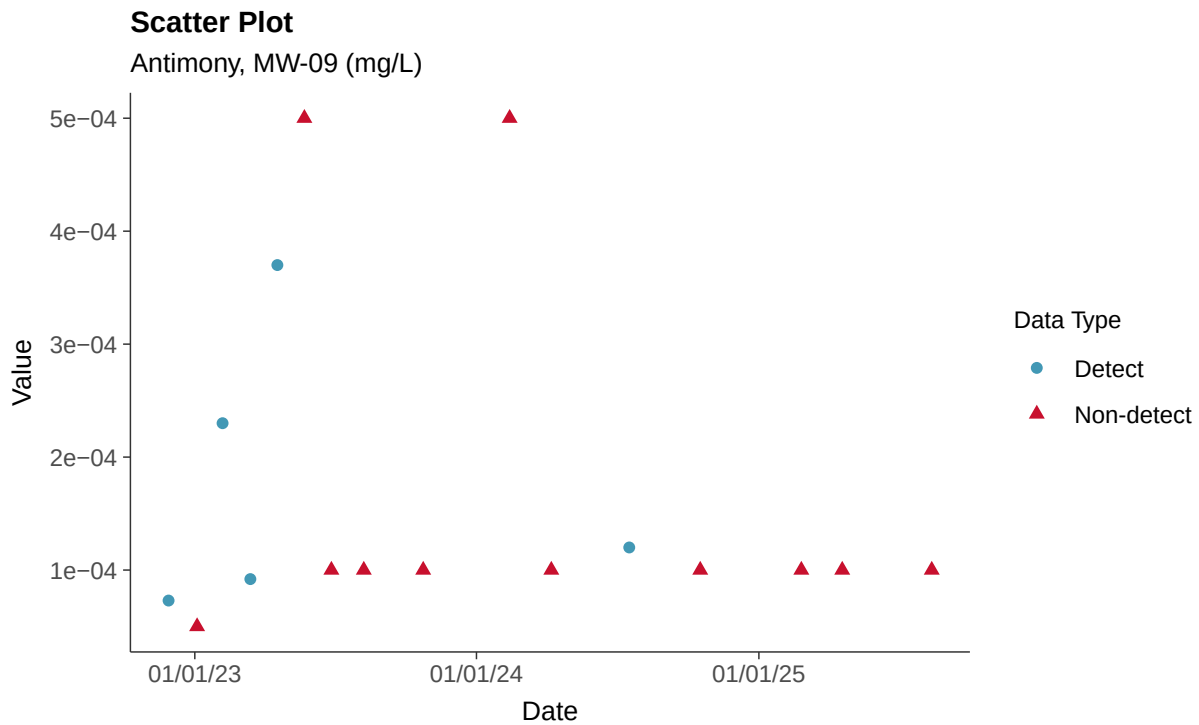
Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-09 (mg/L)



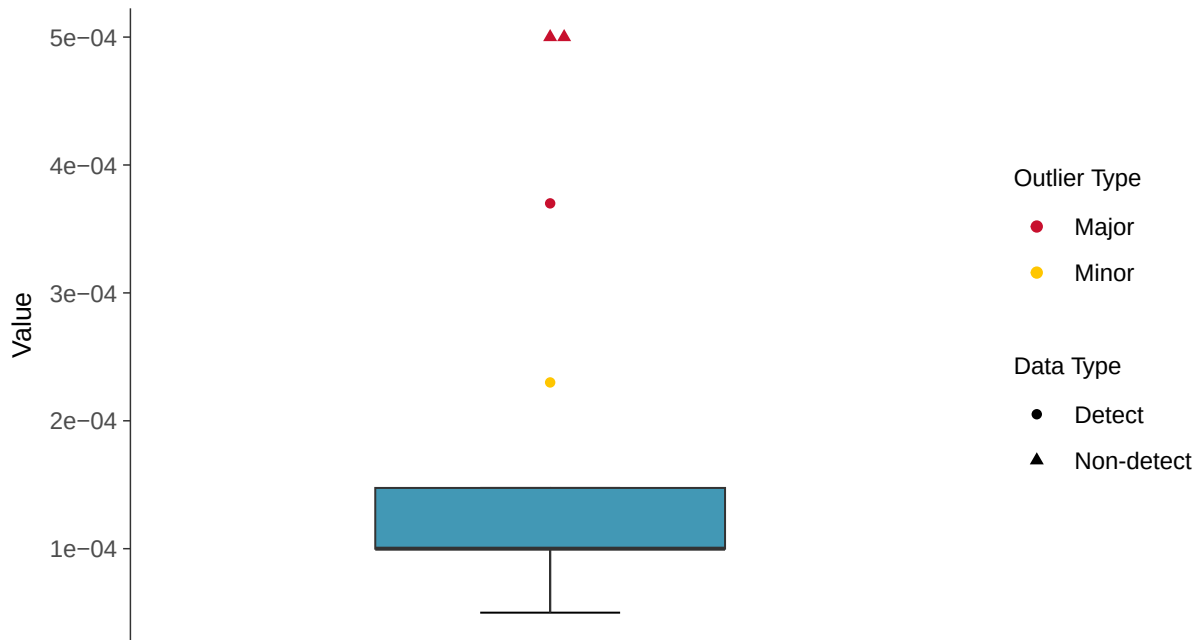
Appendix IV: Antimony, MW-09

ID: 19_2_4_101



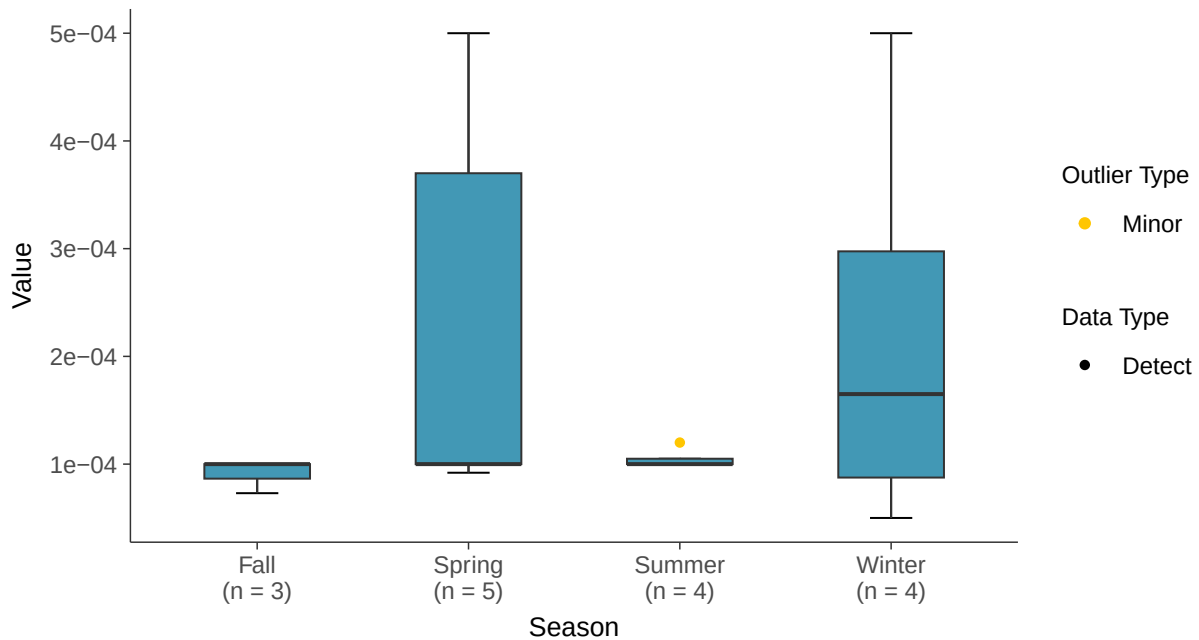
Boxplot

Antimony, MW-09 (mg/L)



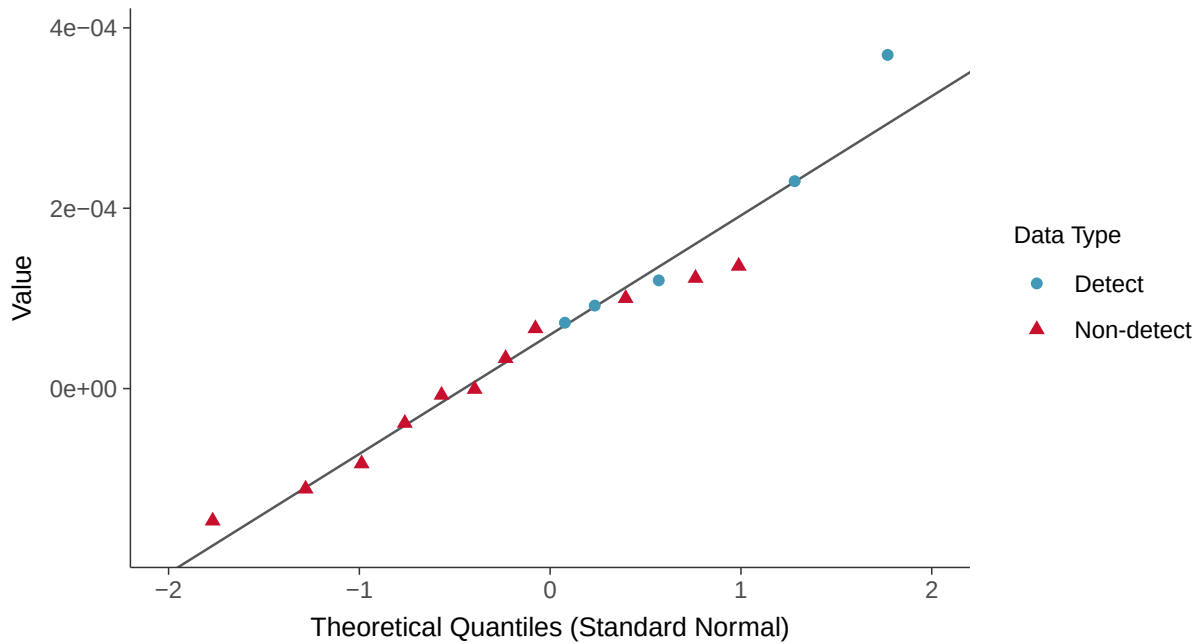
Boxplot by Season

Antimony, MW-09 (mg/L)



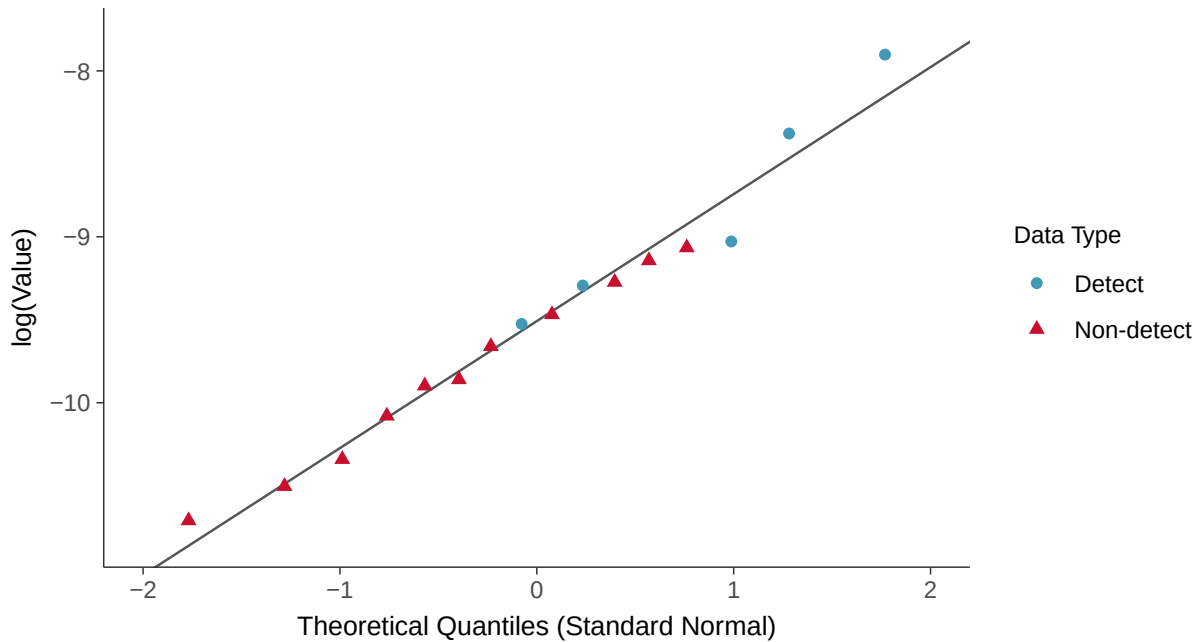
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



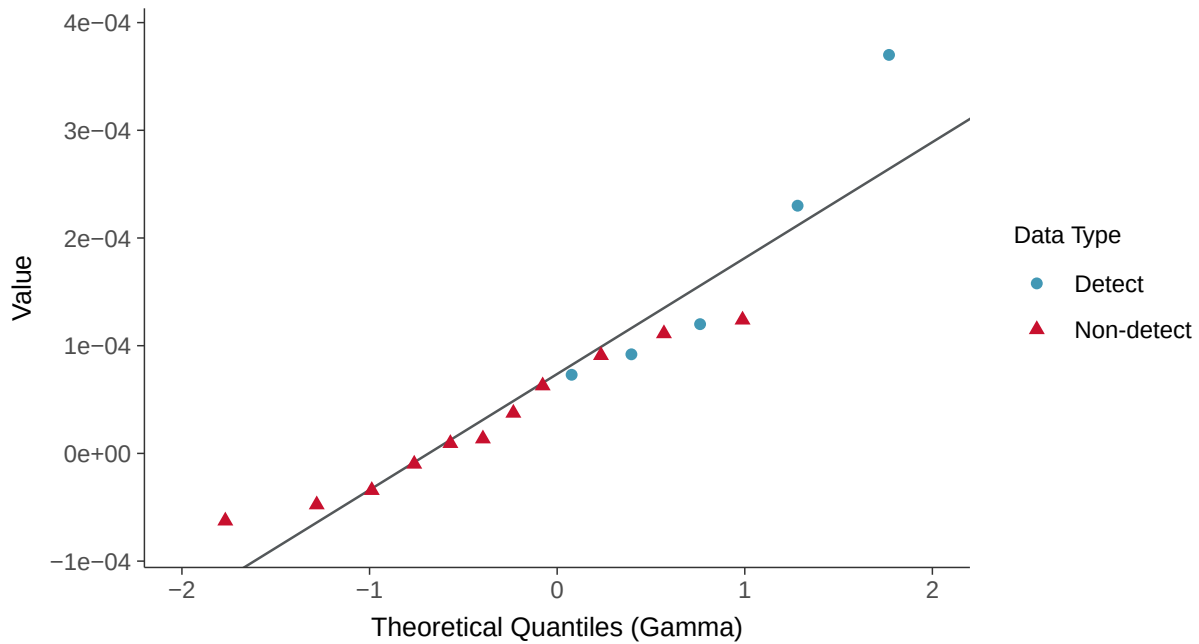
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



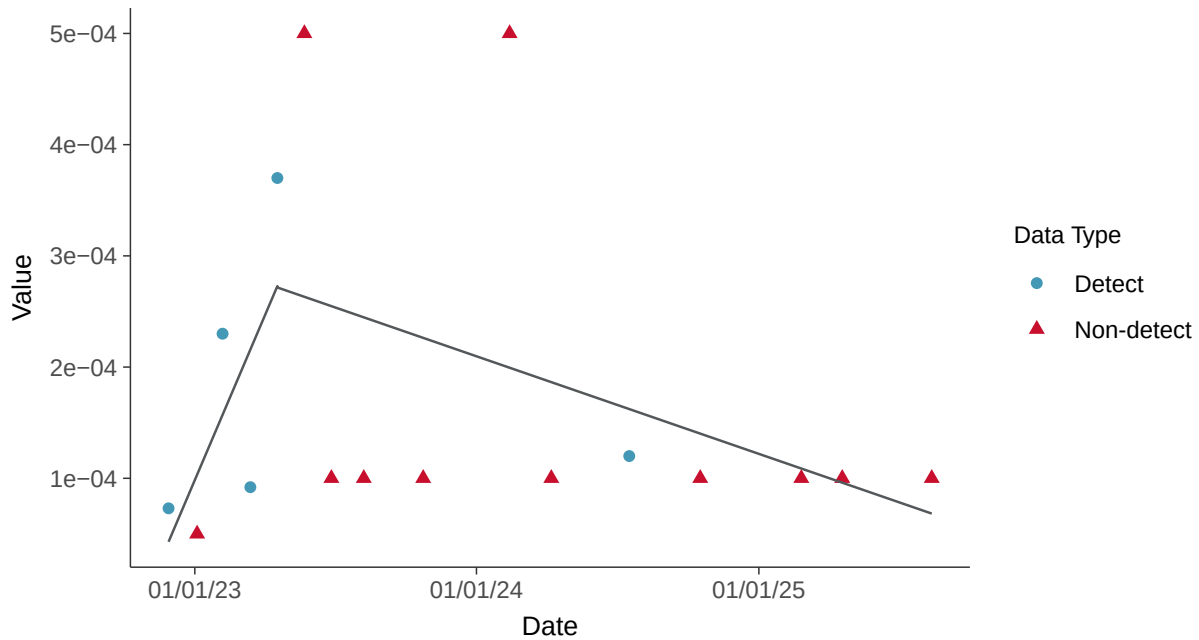
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear

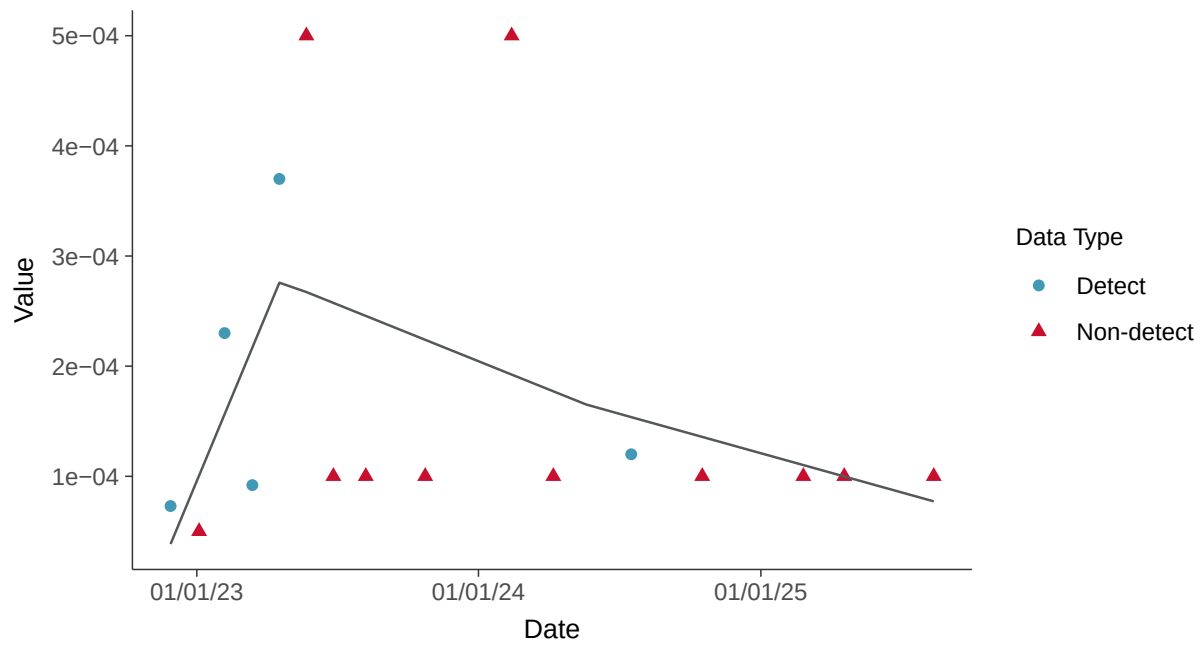
Antimony, MW-09 (mg/L)





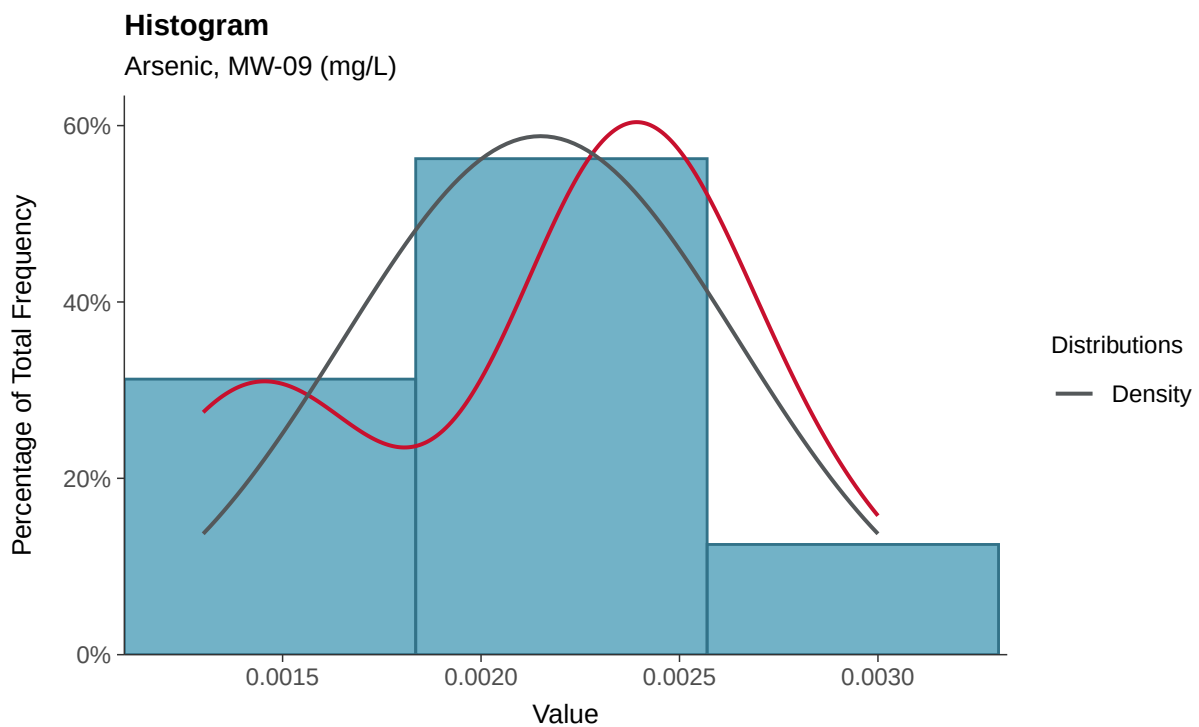
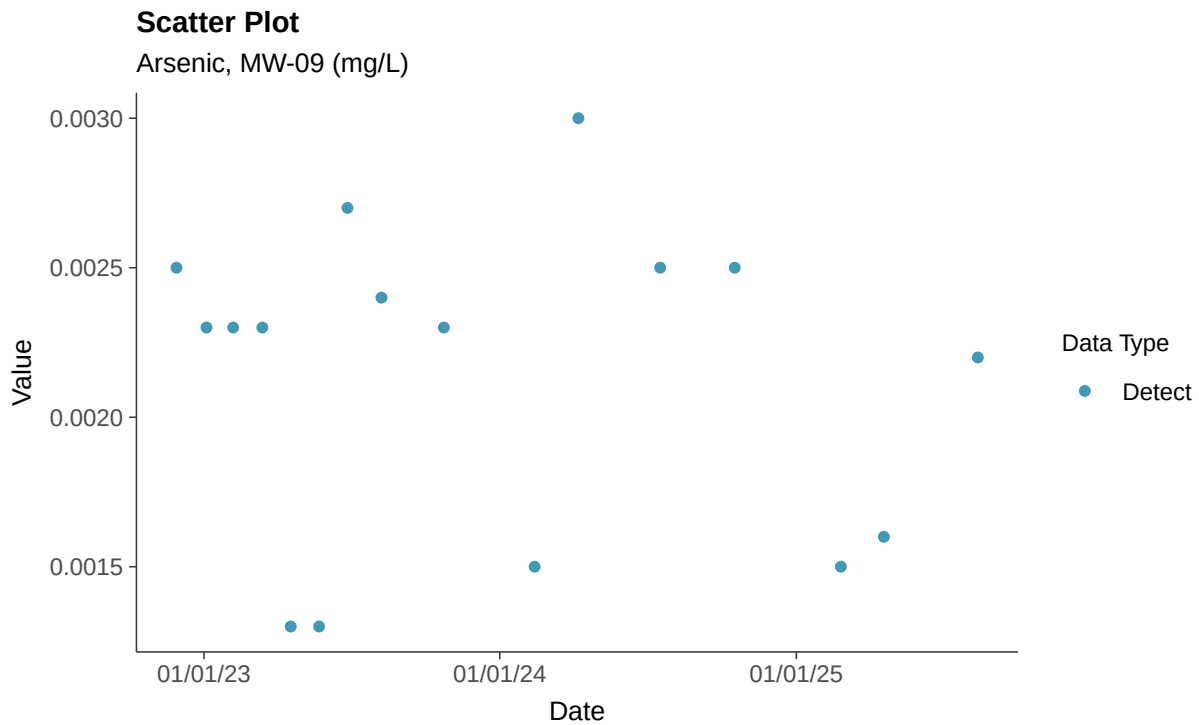
Trend Regression: Piecewise Linear-Linear

Antimony, MW-09 (mg/L)



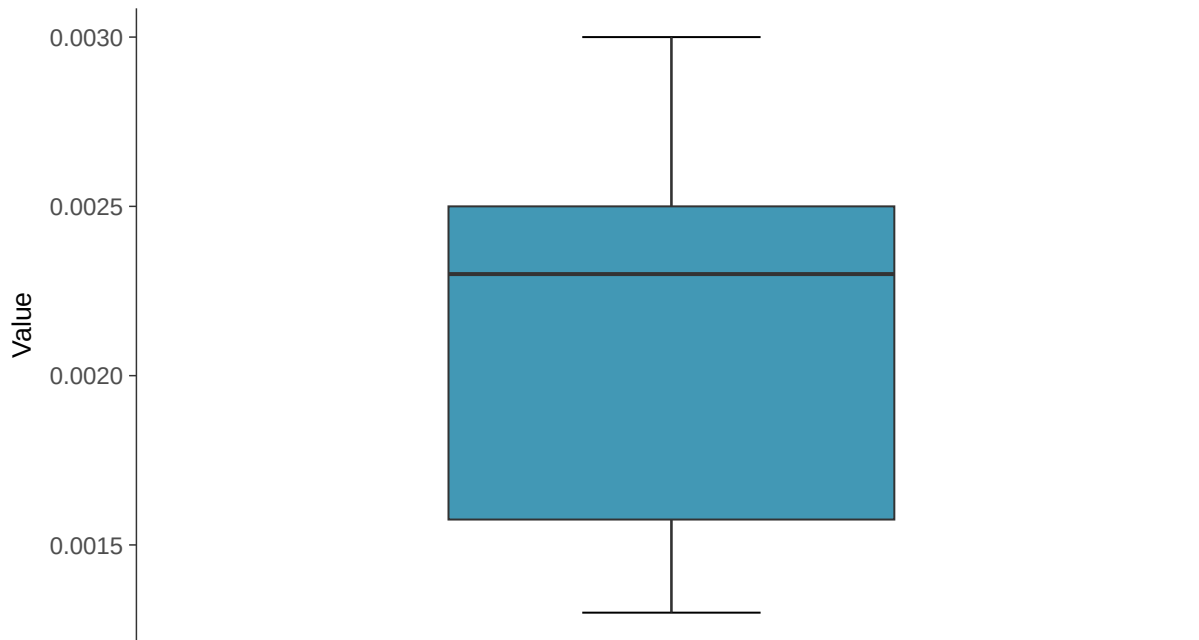
Appendix IV: Arsenic, MW-09

ID: 19_2_4_102



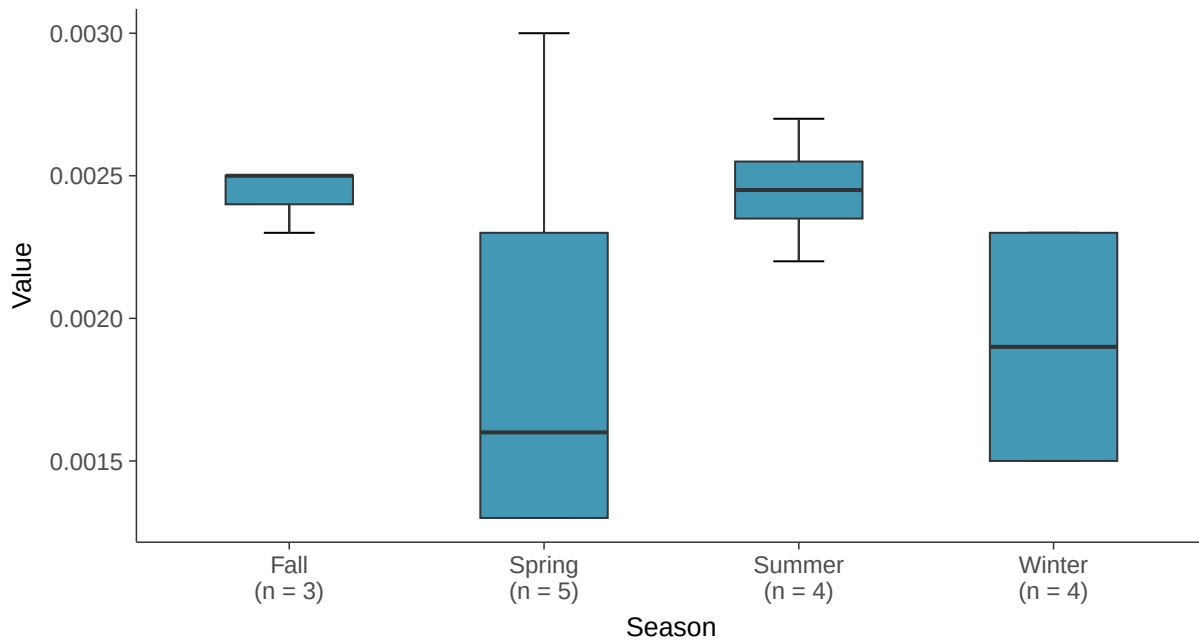
Boxplot

Arsenic, MW-09 (mg/L)



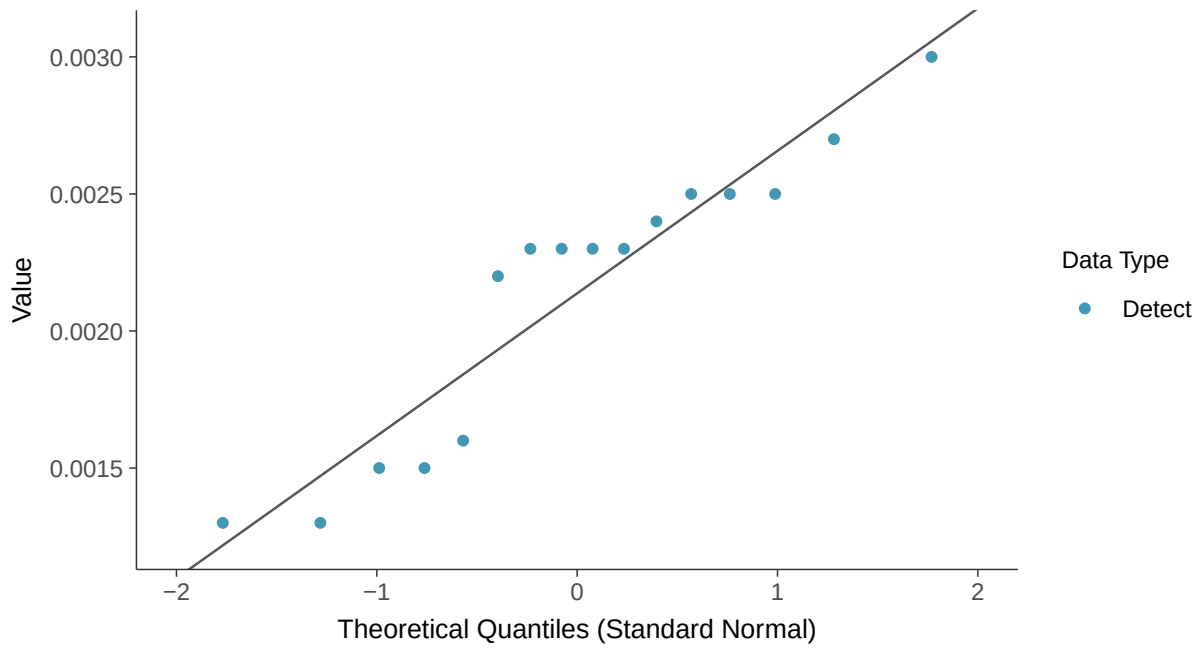
Boxplot by Season

Arsenic, MW-09 (mg/L)



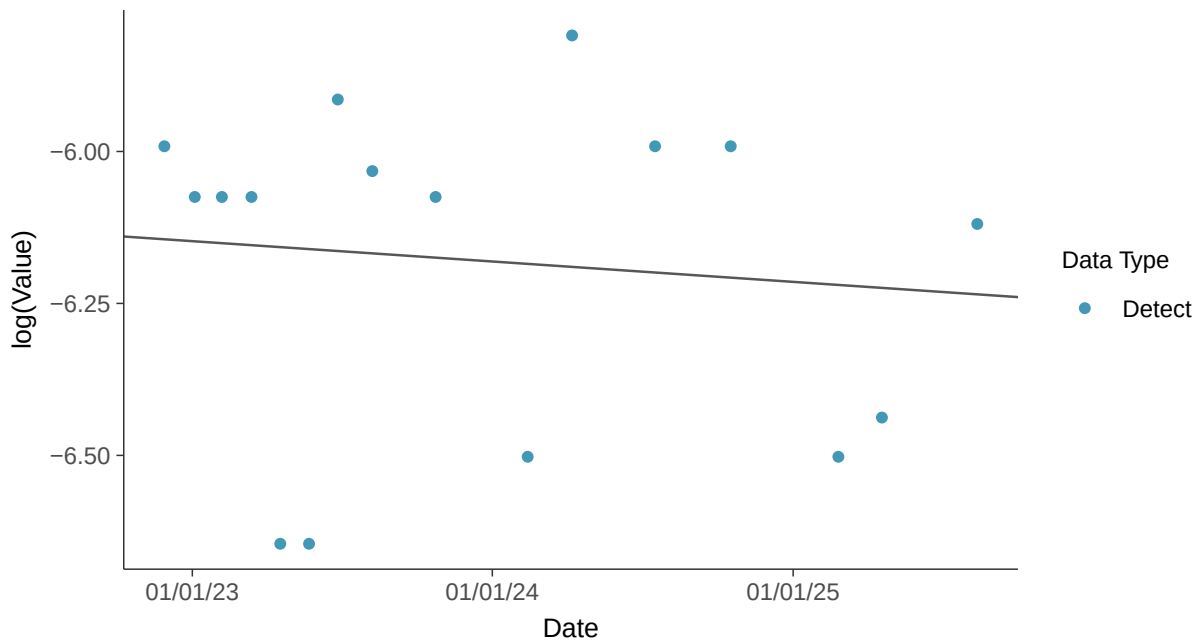
Normal Q-Q plot

Arsenic, MW-09 (mg/L)



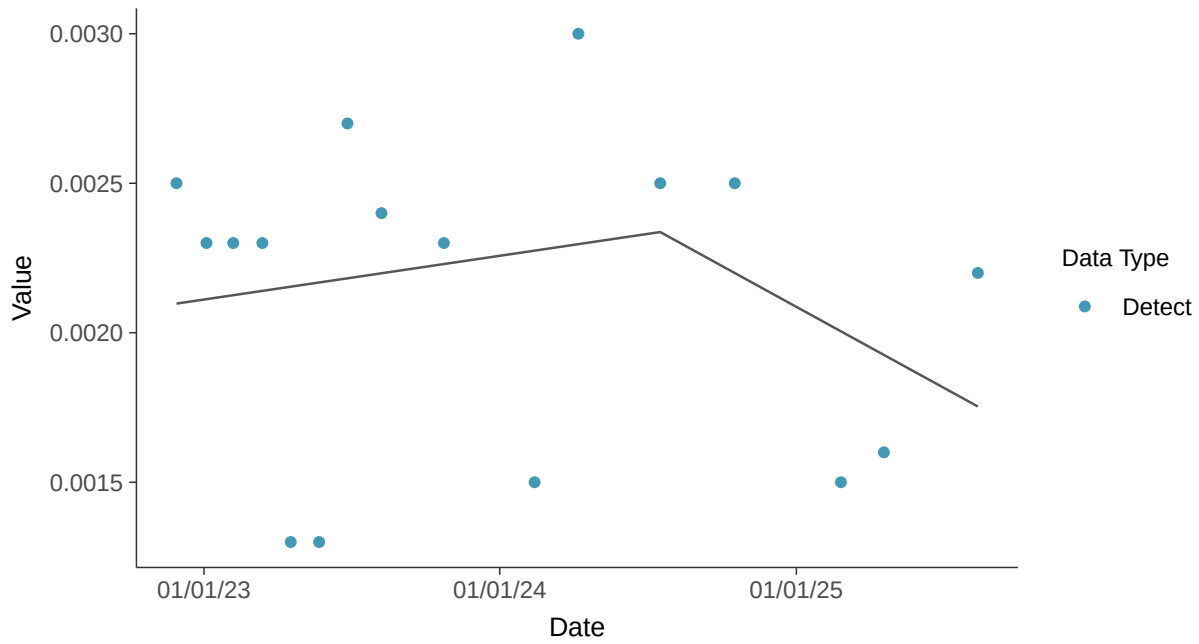
Trend Regression: Lognormal MLE

Arsenic, MW-09 (mg/L)



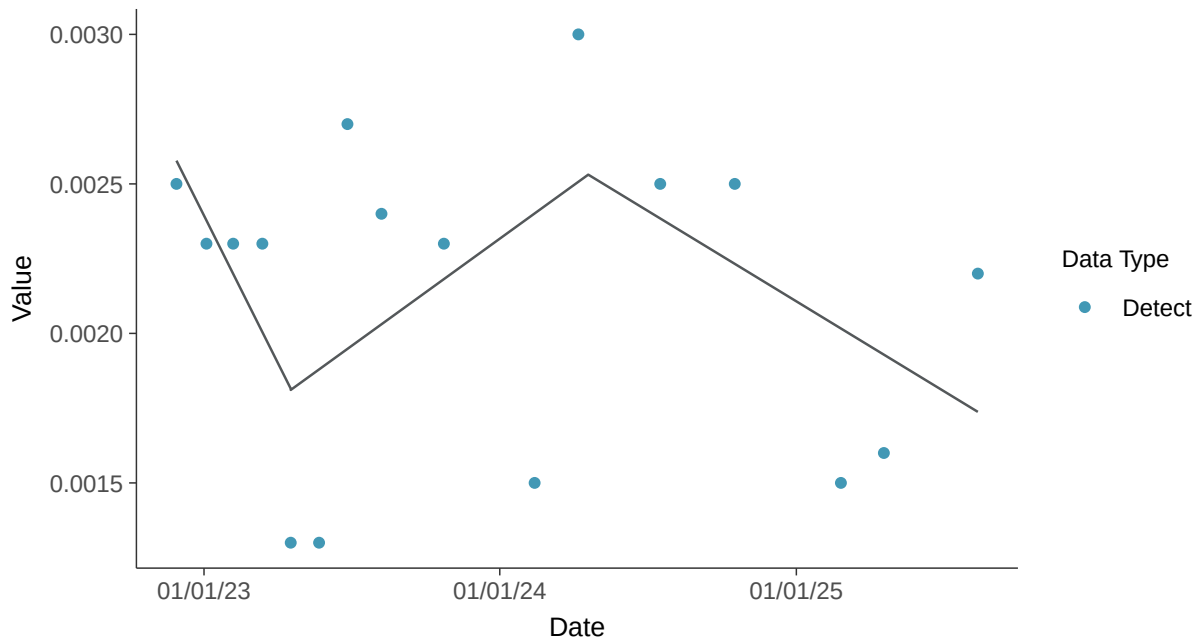
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-09 (mg/L)



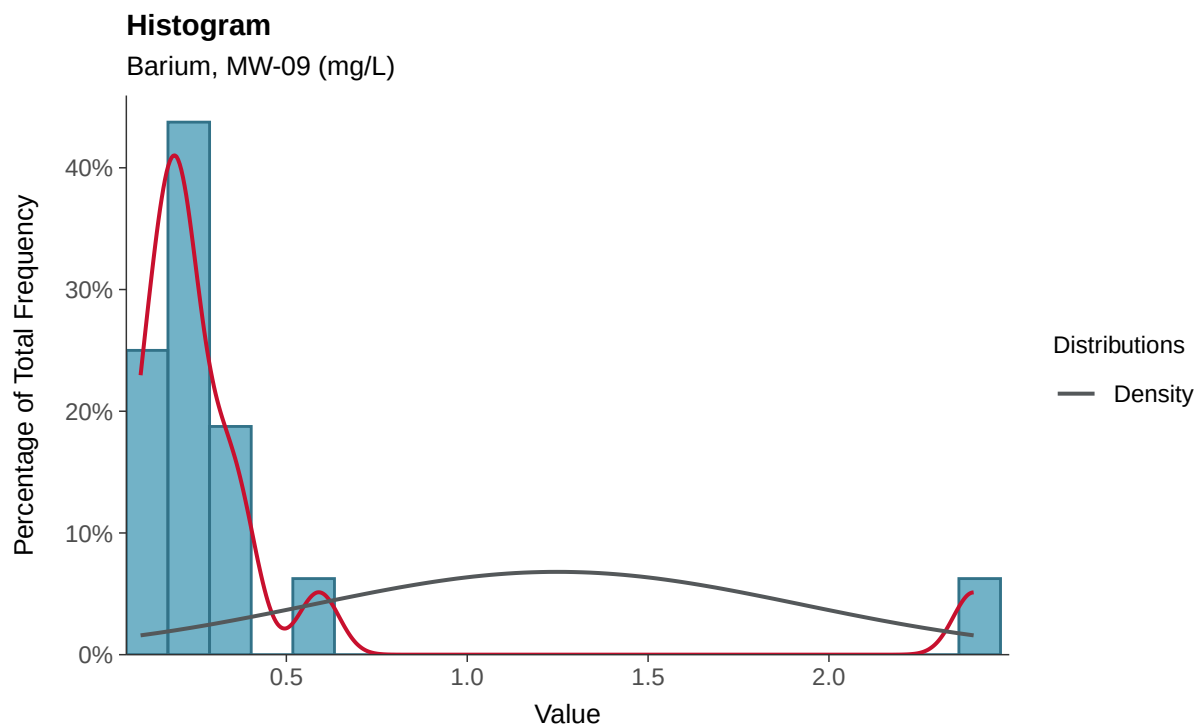
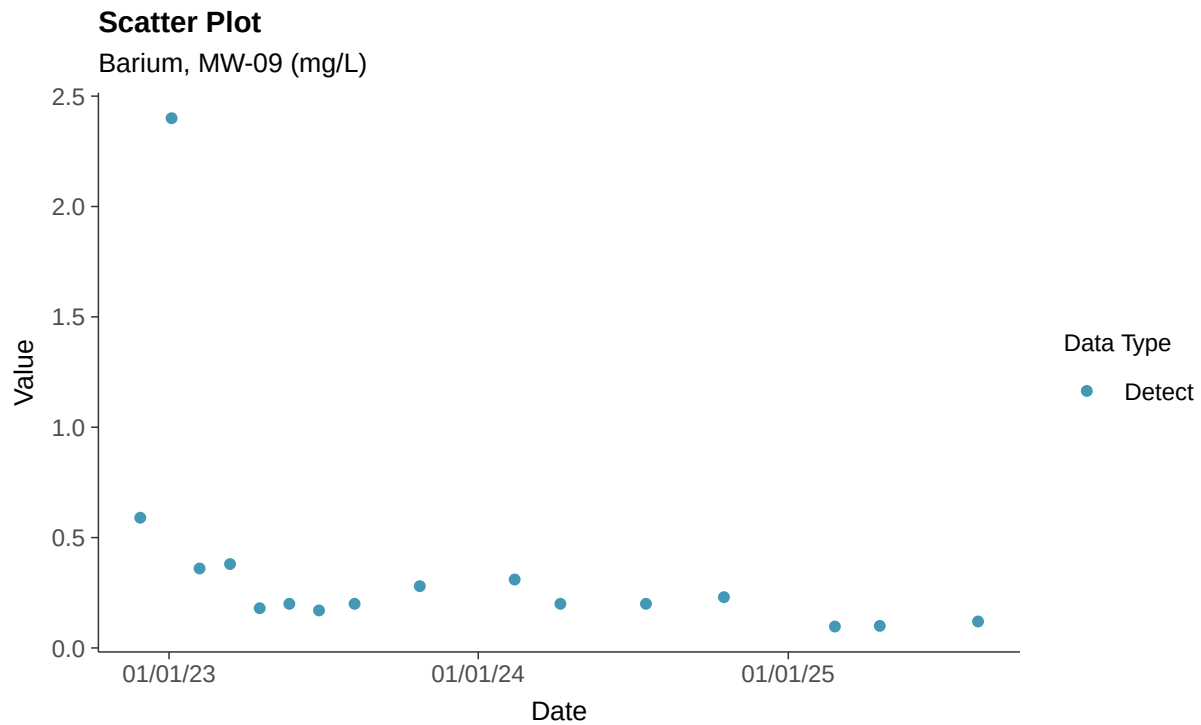
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-09 (mg/L)



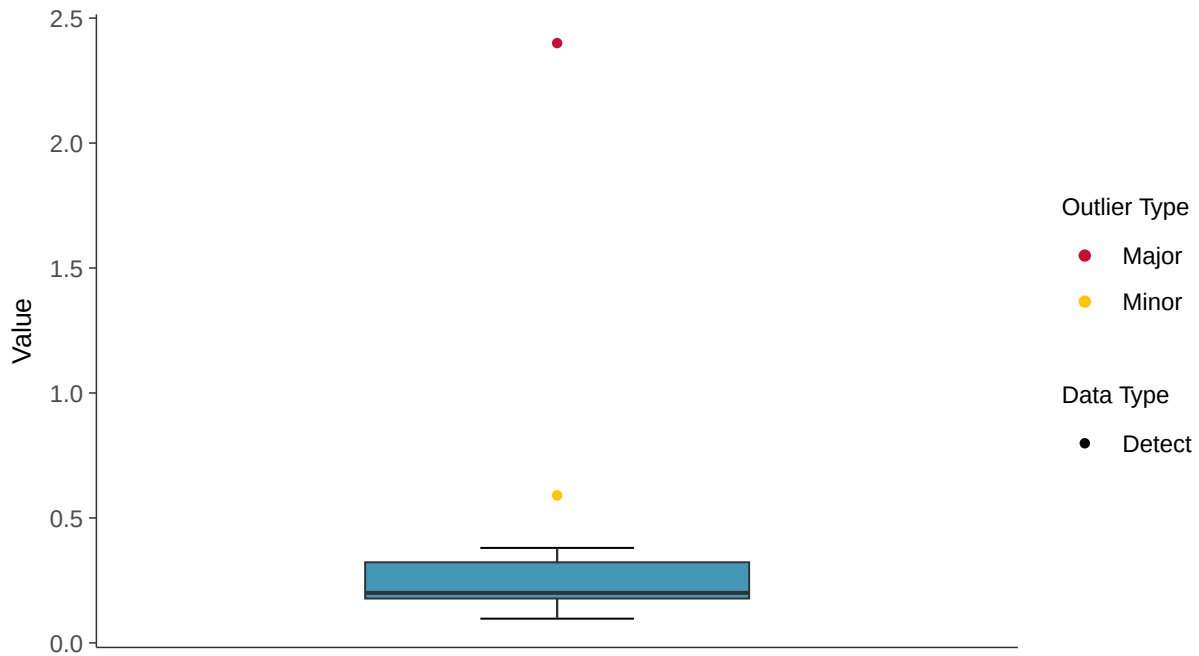
Appendix IV: Barium, MW-09

ID: 19_2_4_103



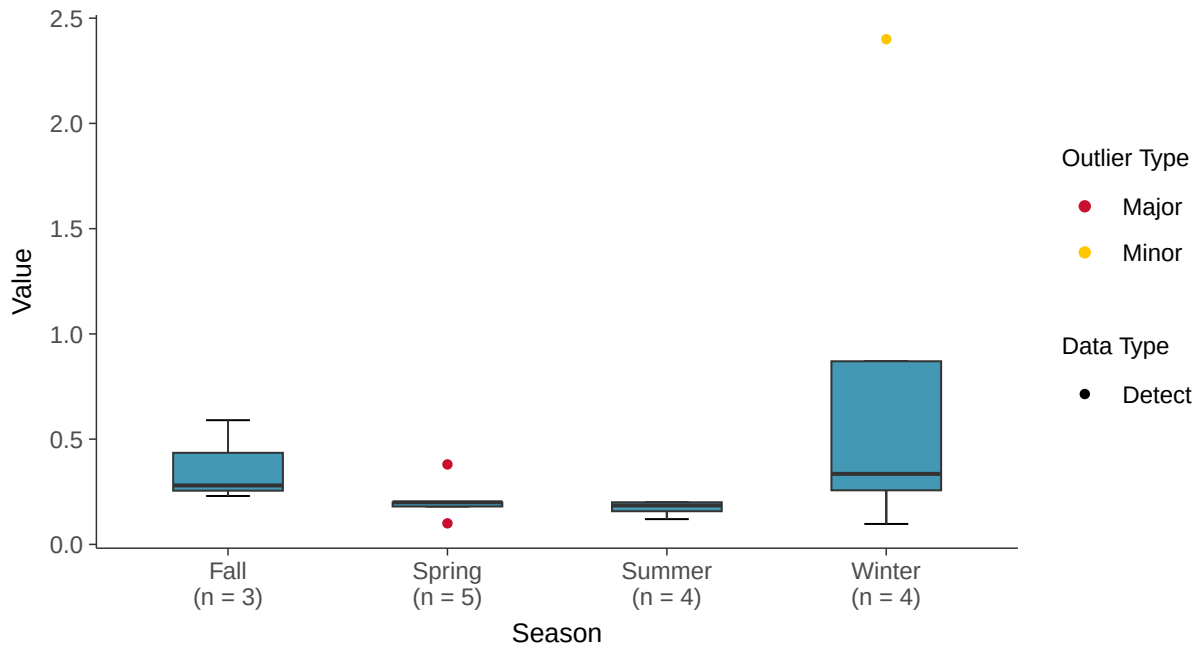
Boxplot

Barium, MW-09 (mg/L)



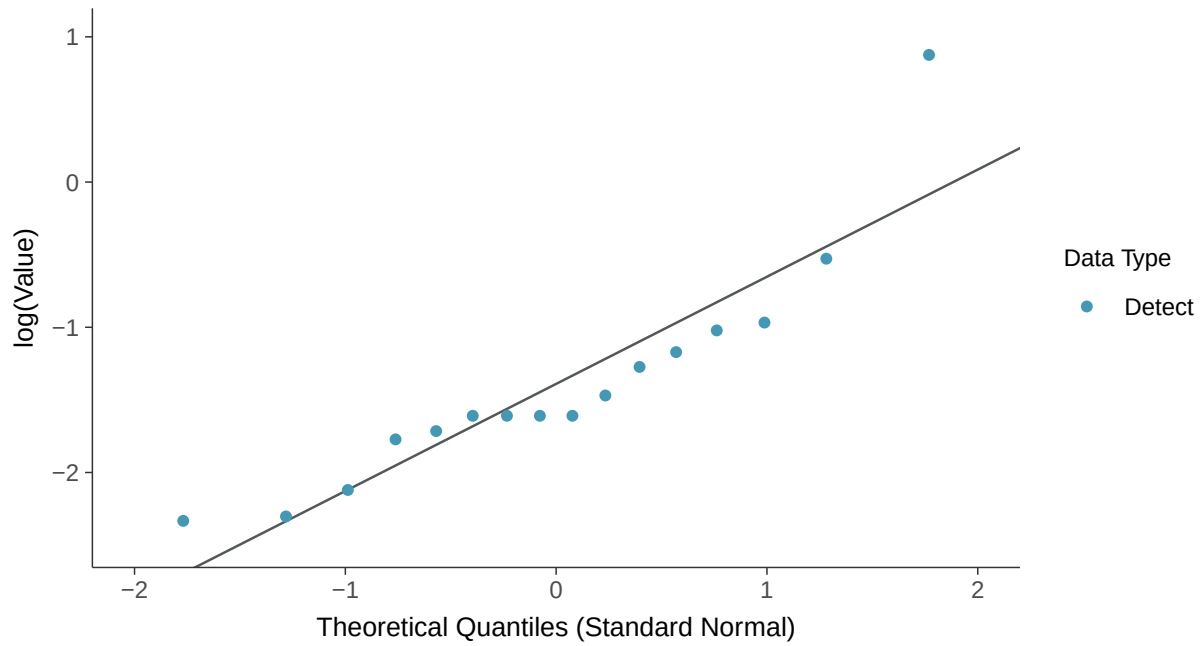
Boxplot by Season

Barium, MW-09 (mg/L)



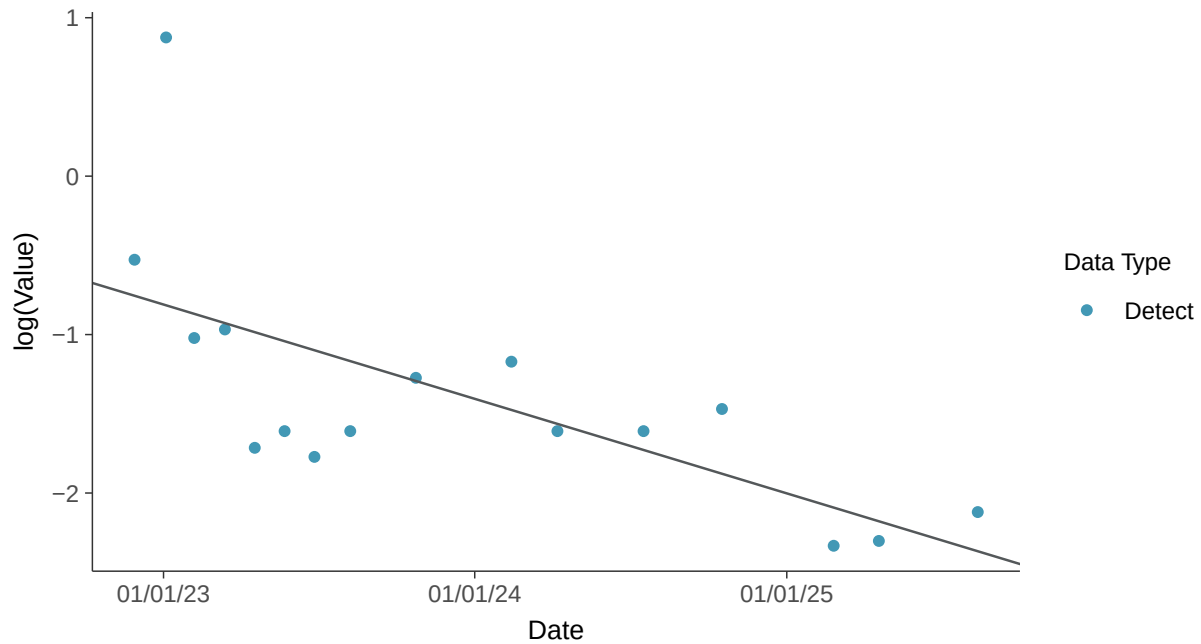
Lognormal Q-Q plot

Barium, MW-09 (mg/L)



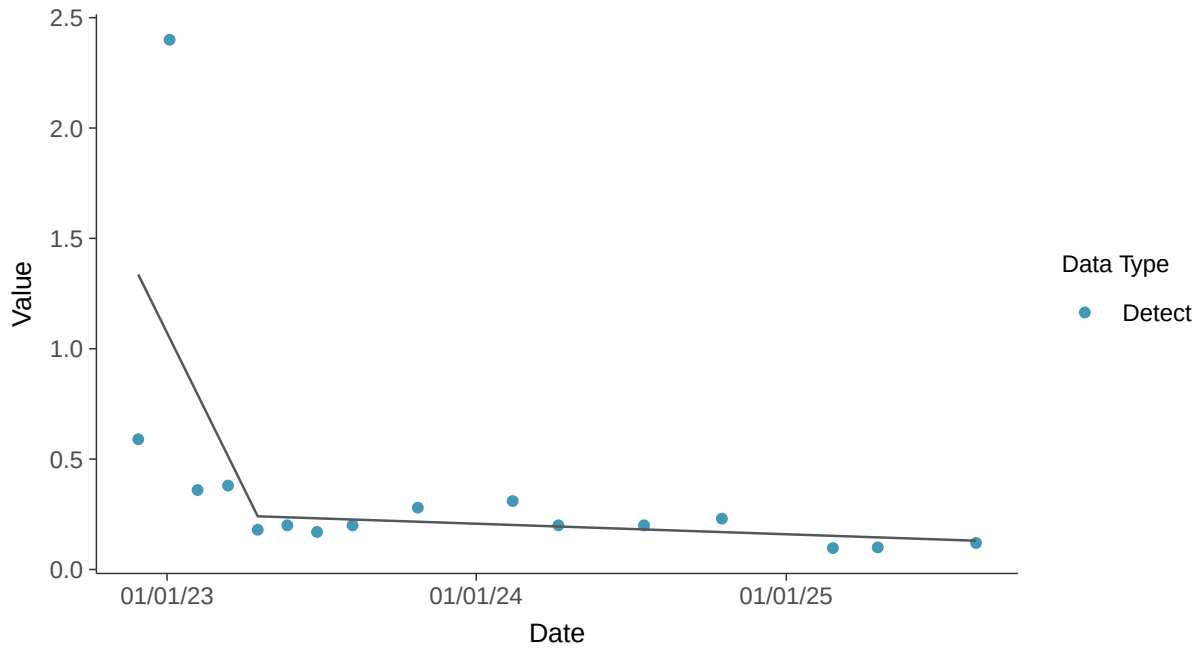
Trend Regression: Lognormal MLE

Barium, MW-09 (mg/L)



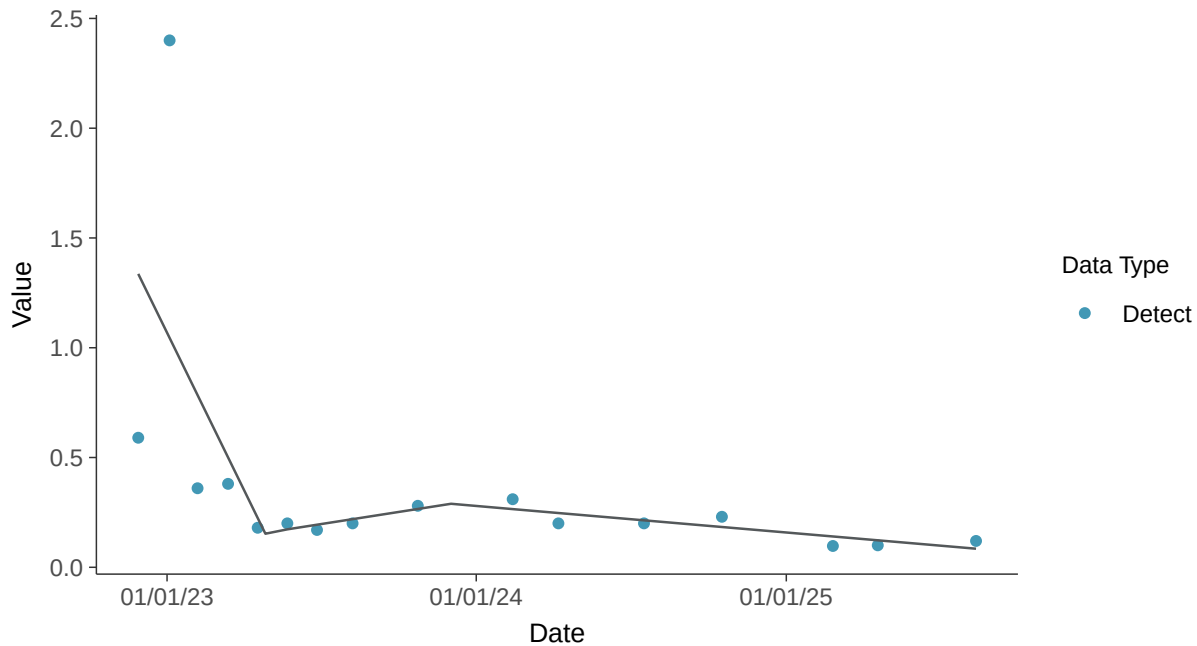
Trend Regression: Piecewise Linear-Linear

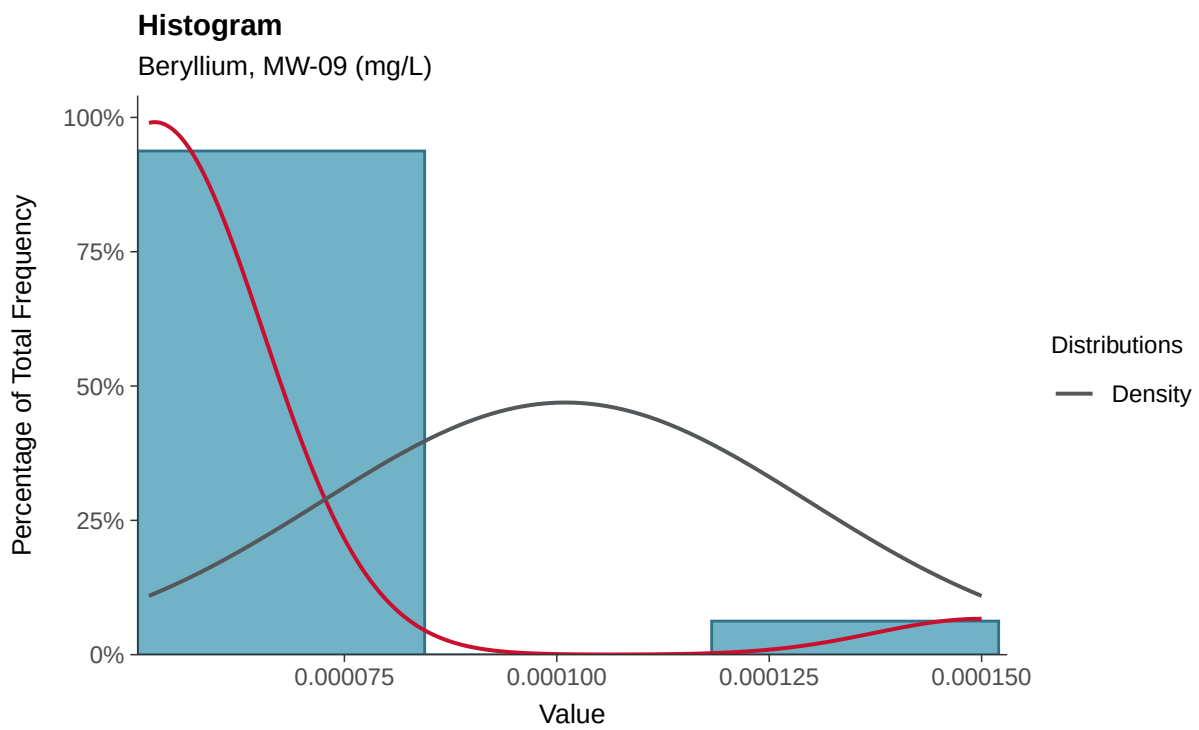
Barium, MW-09 (mg/L)

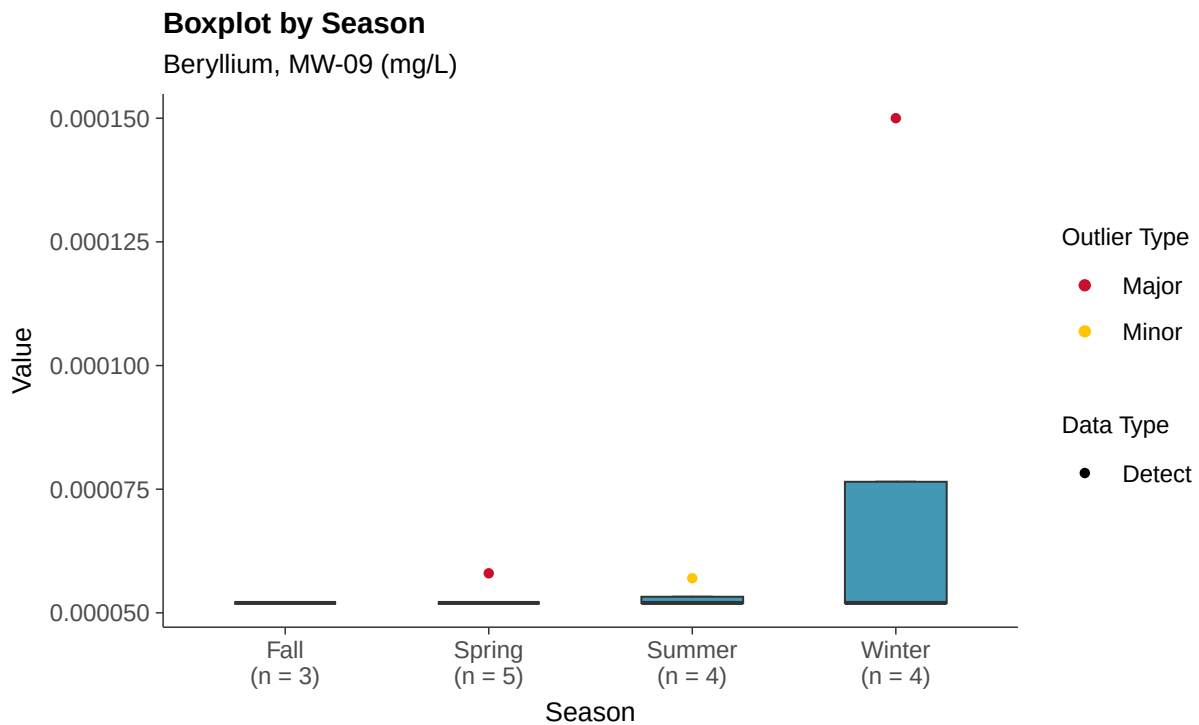
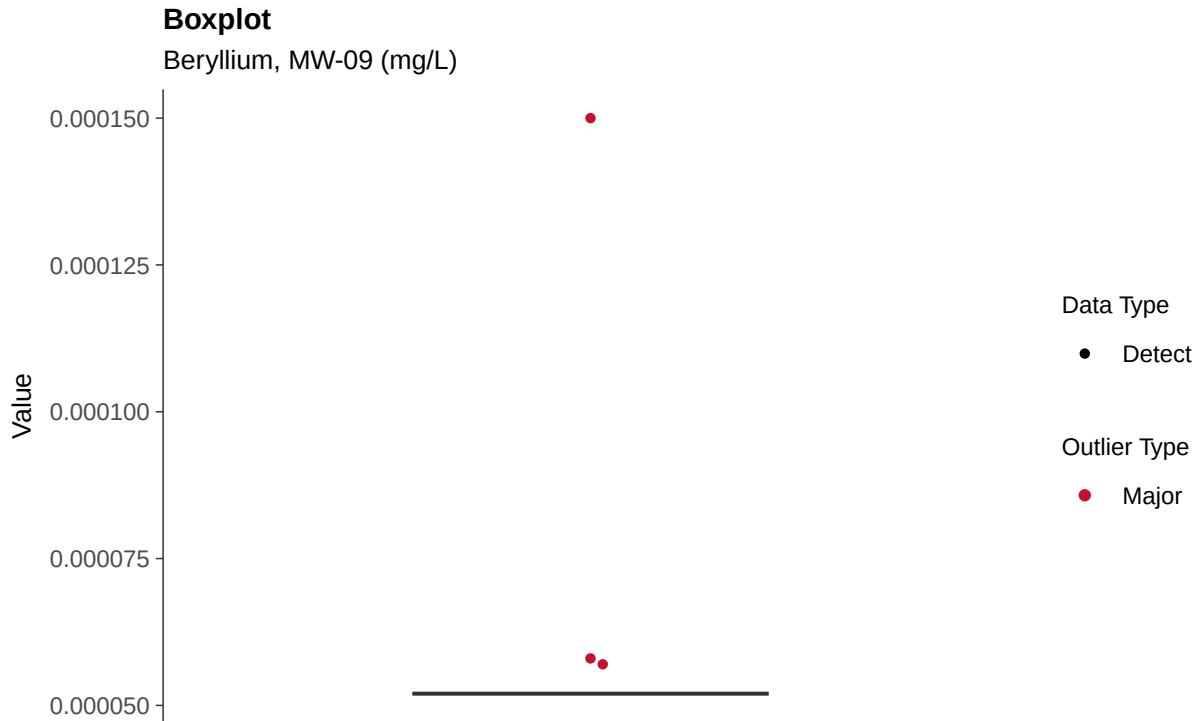


Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-09 (mg/L)

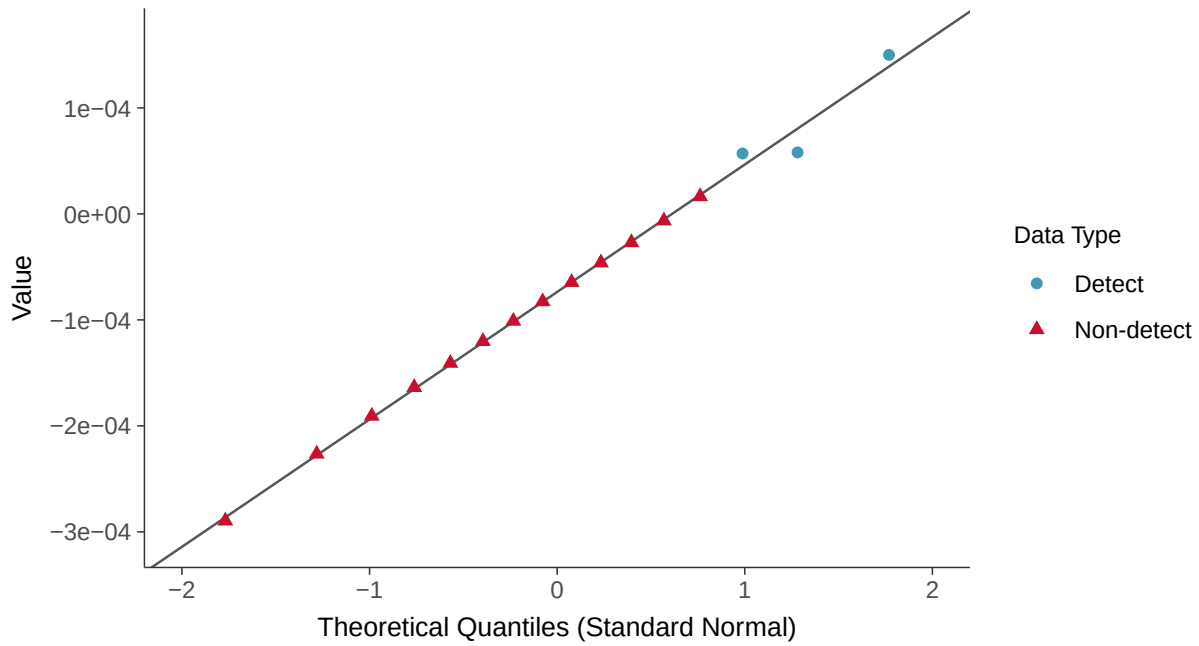






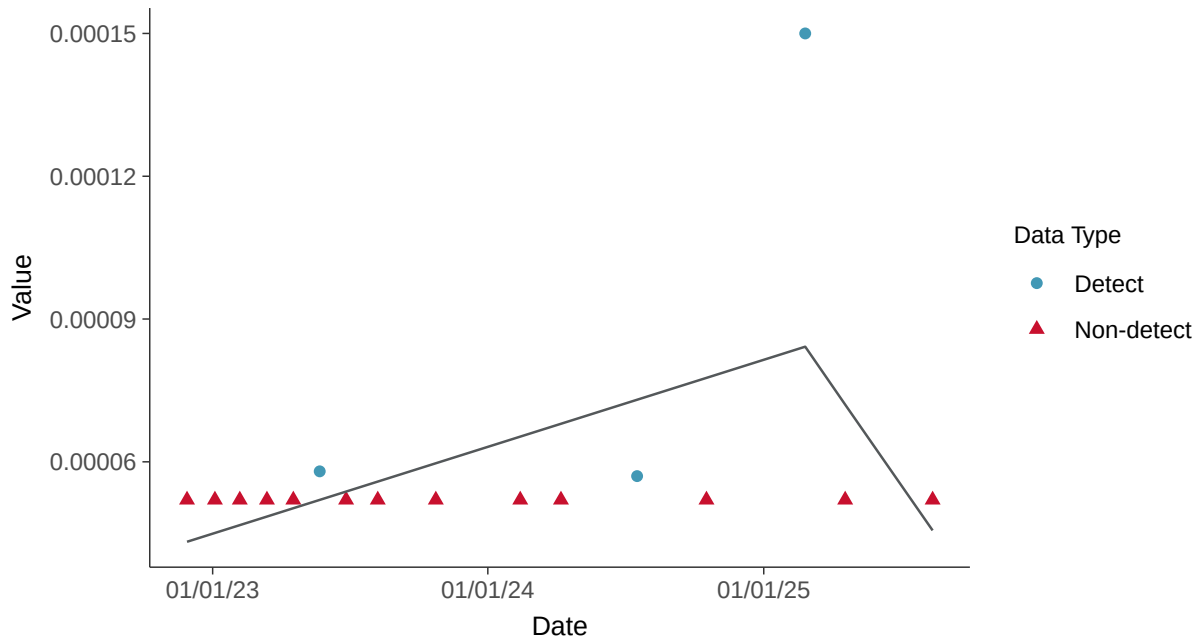
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-09 (mg/L)

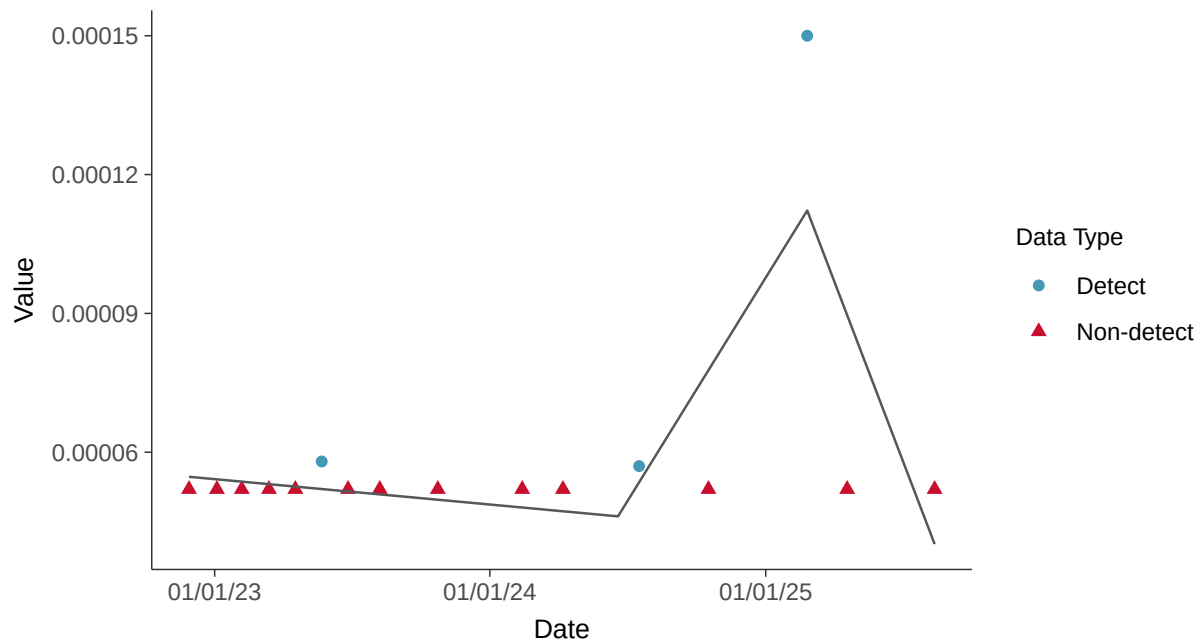


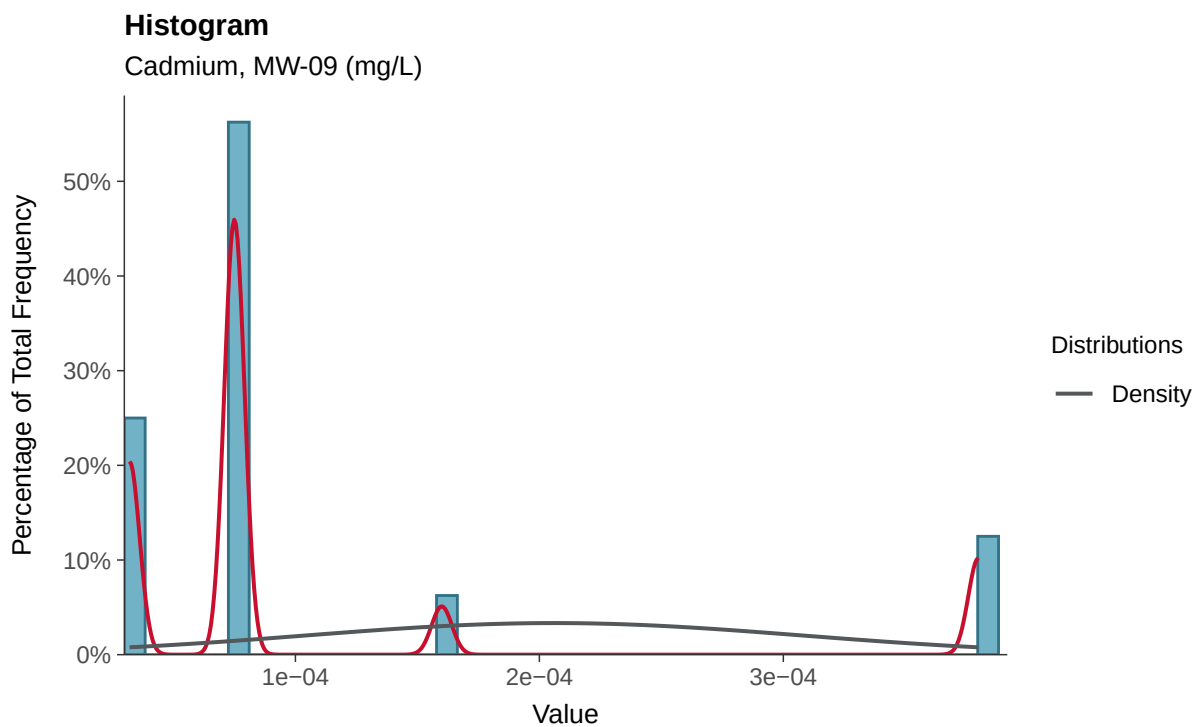
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-09 (mg/L)



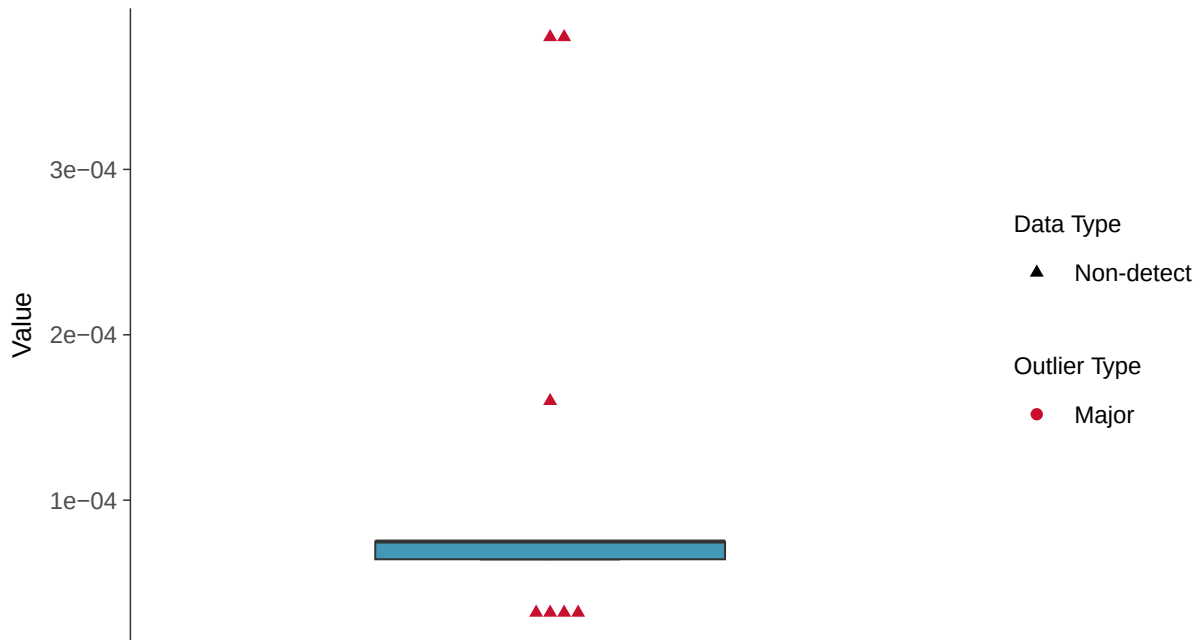
Beryllium, MW-09 (mg/L)





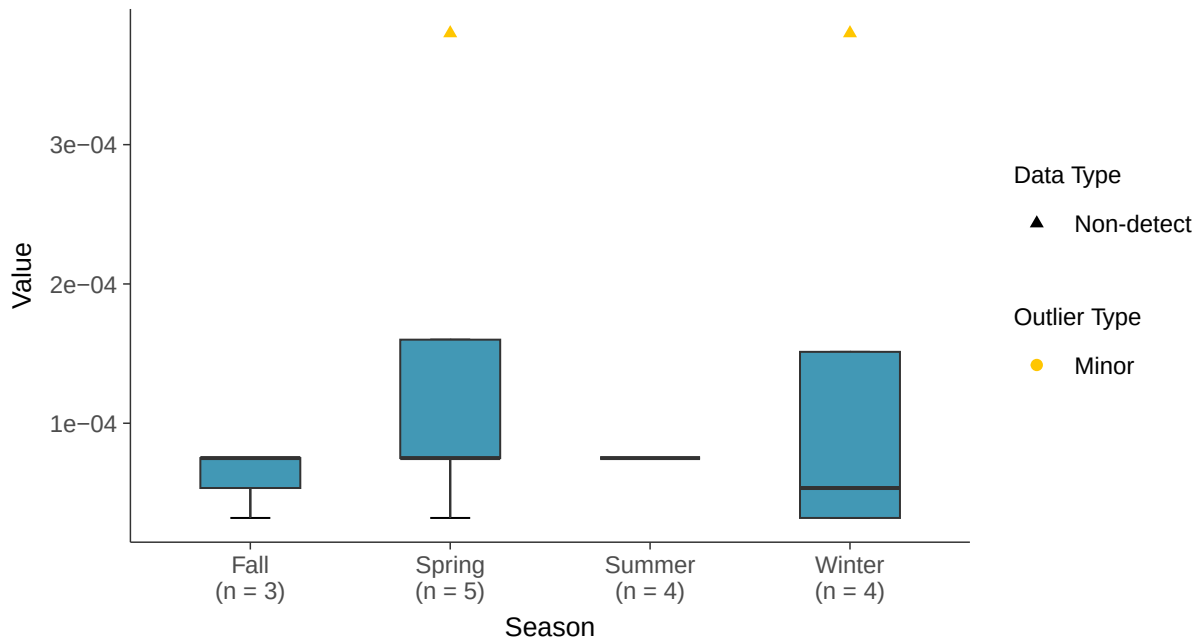
Boxplot

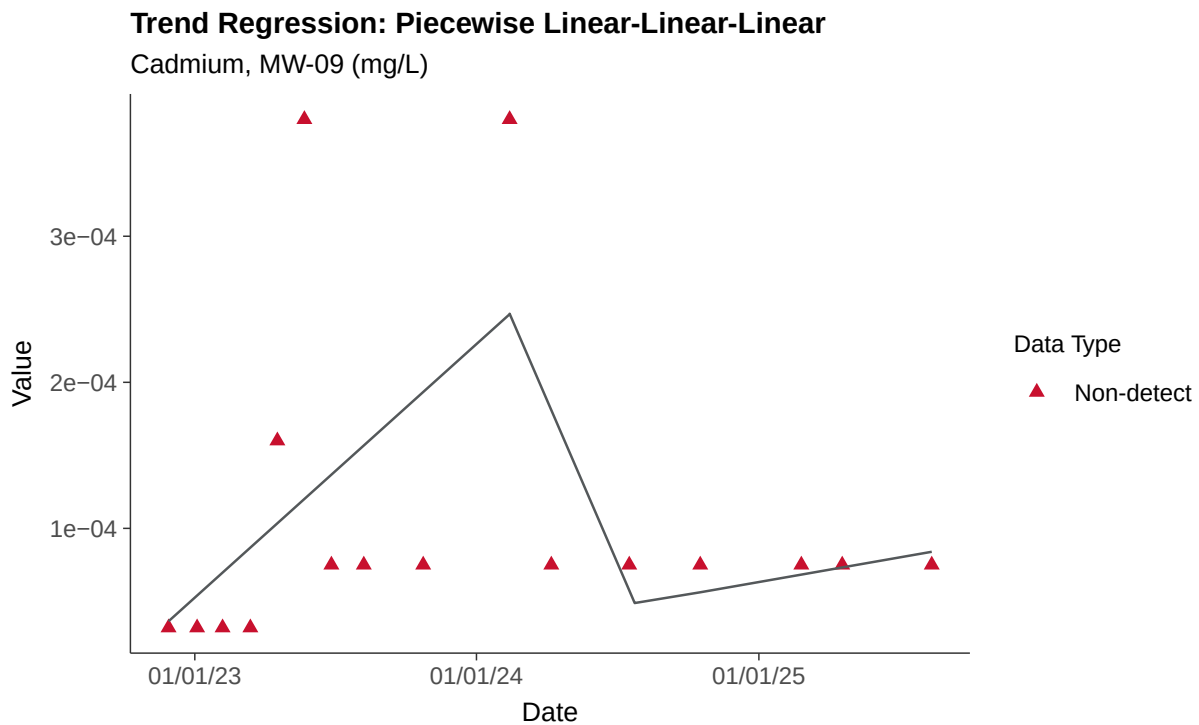
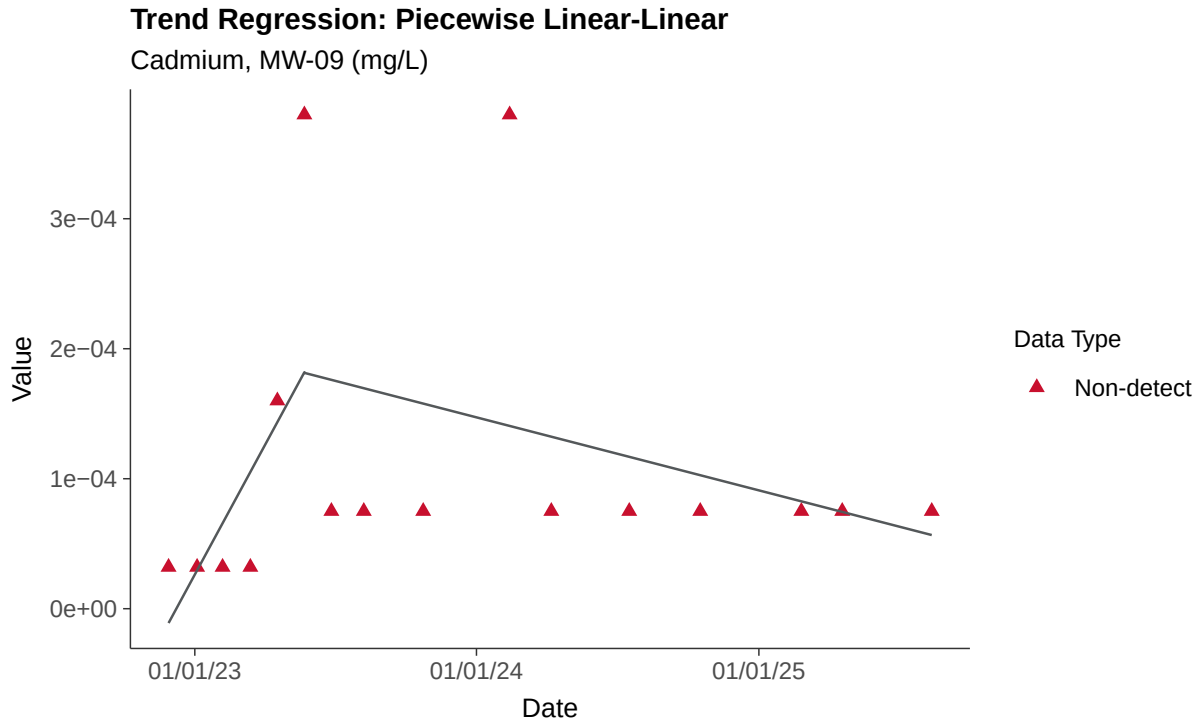
Cadmium, MW-09 (mg/L)



Boxplot by Season

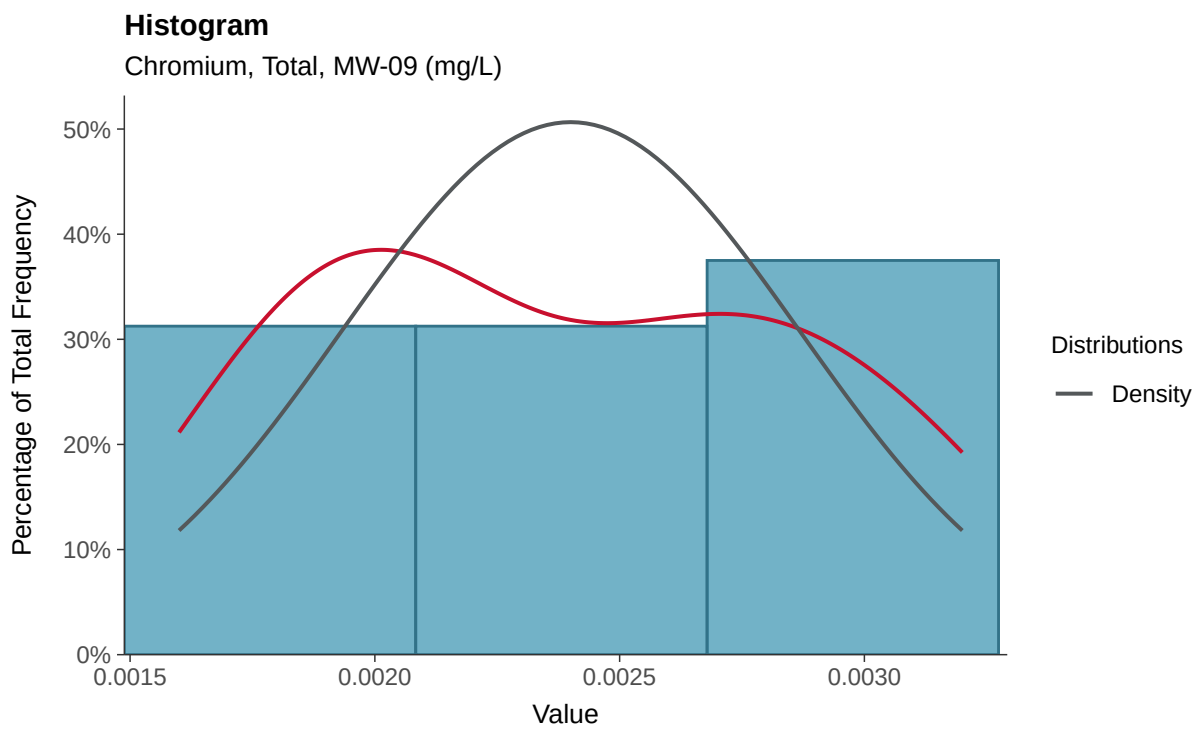
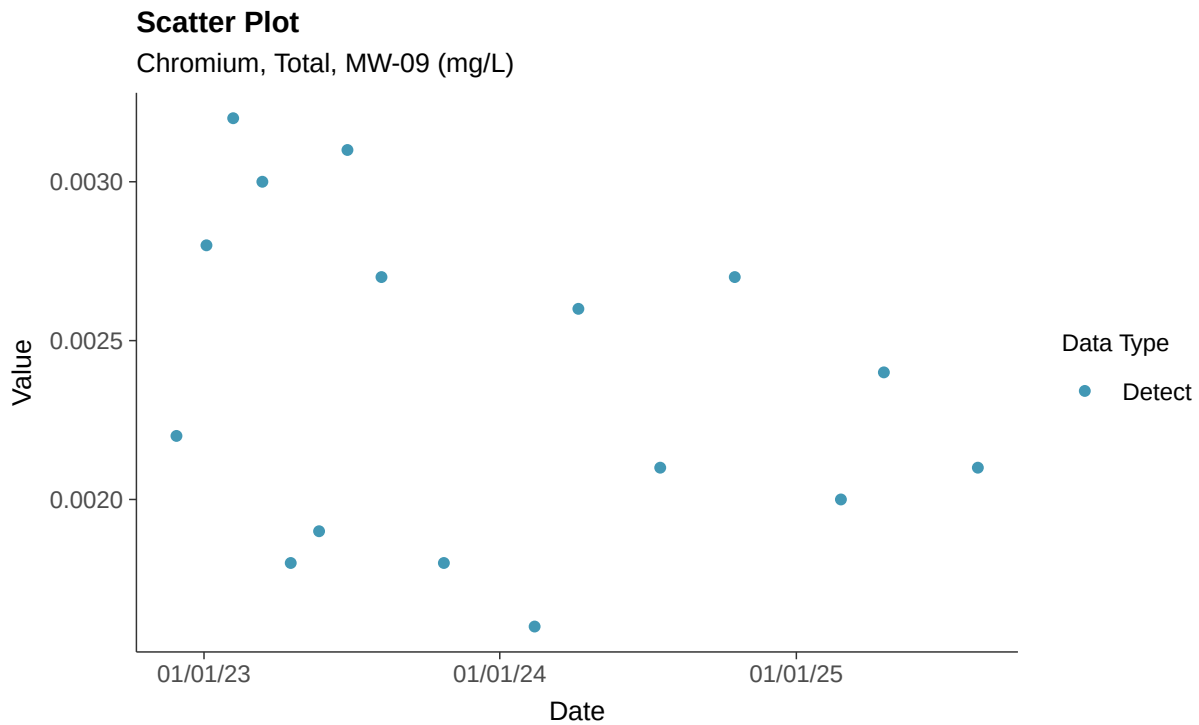
Cadmium, MW-09 (mg/L)





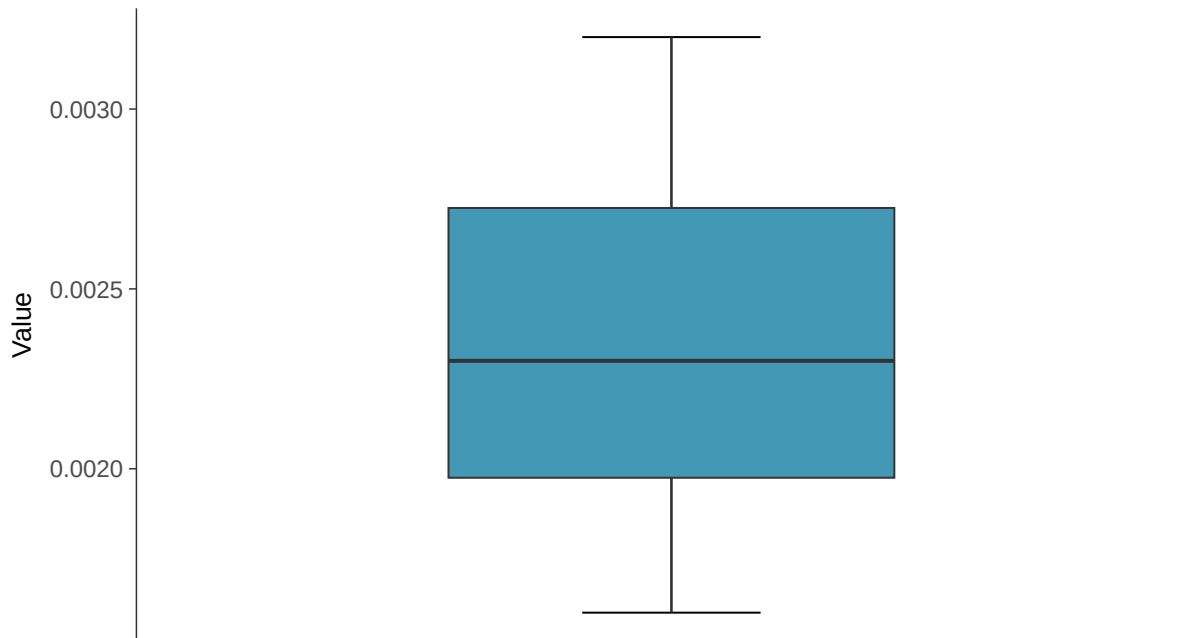
Appendix IV: Chromium, Total, MW-09

ID: 19_2_4_109



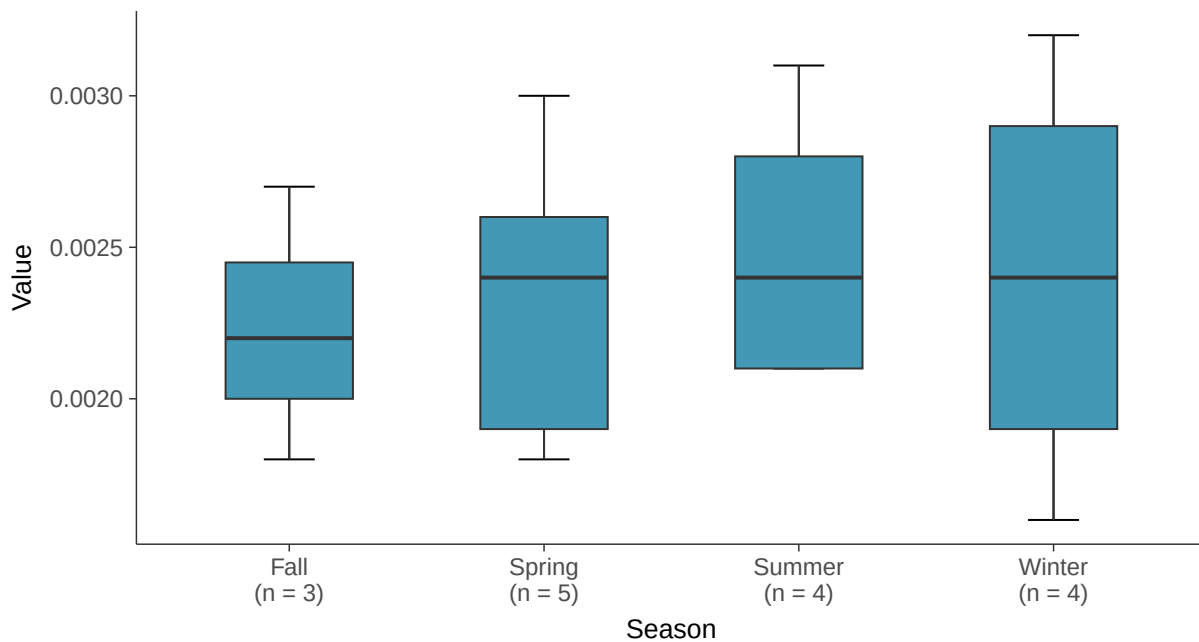
Boxplot

Chromium, Total, MW-09 (mg/L)



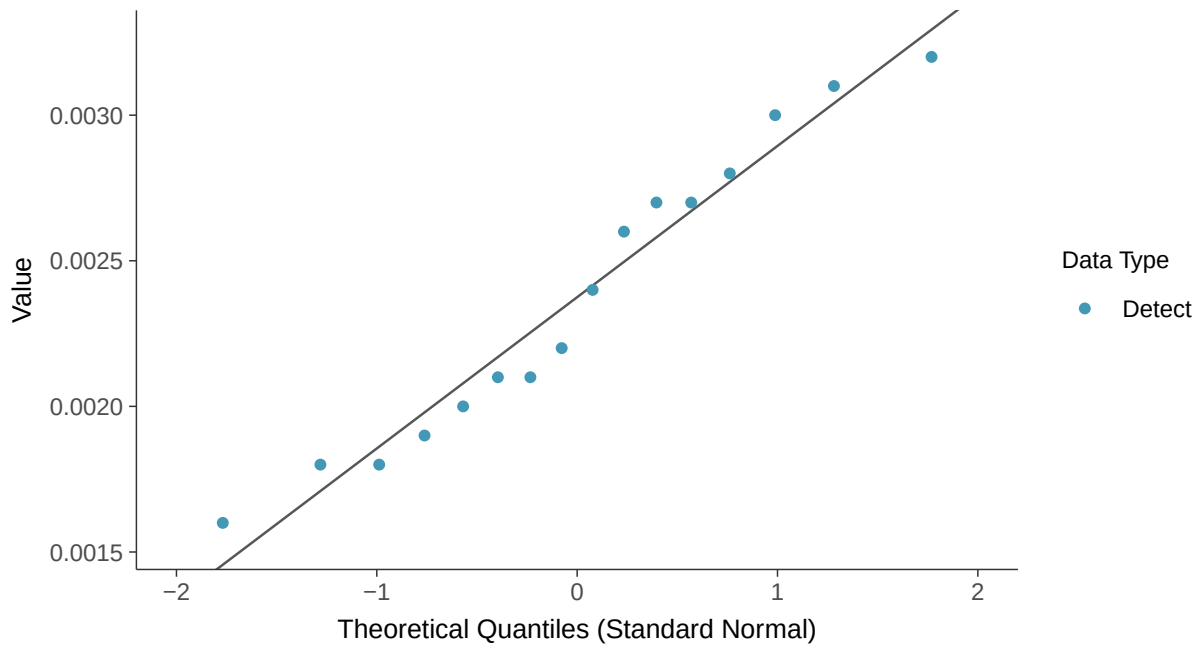
Boxplot by Season

Chromium, Total, MW-09 (mg/L)



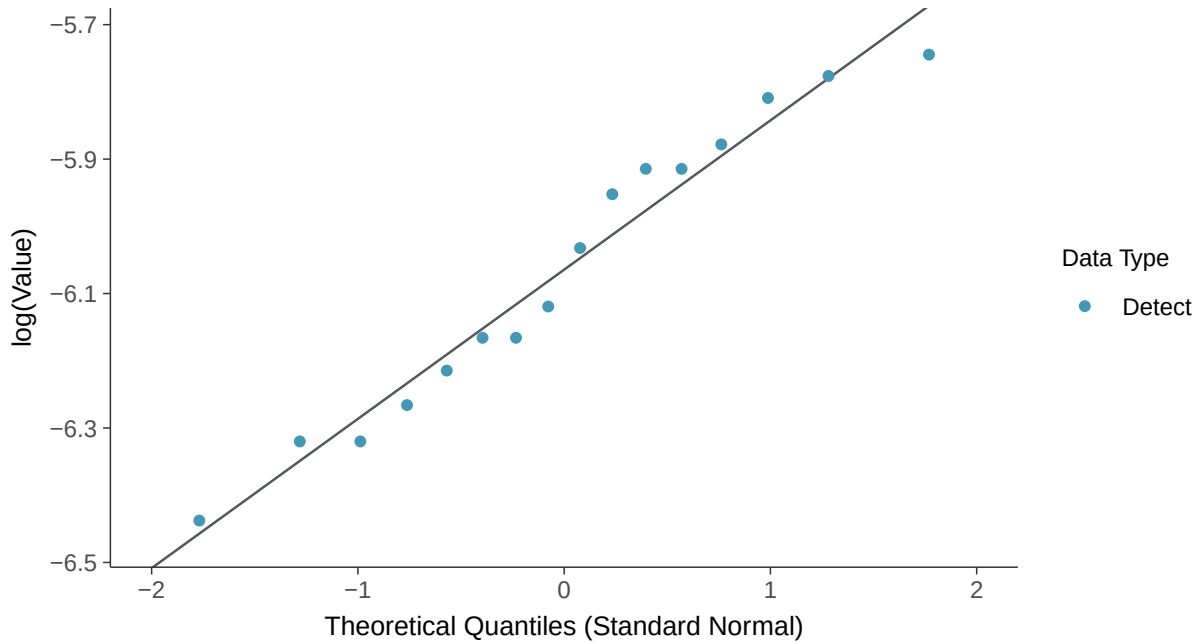
Normal Q-Q plot

Chromium, Total, MW-09 (mg/L)



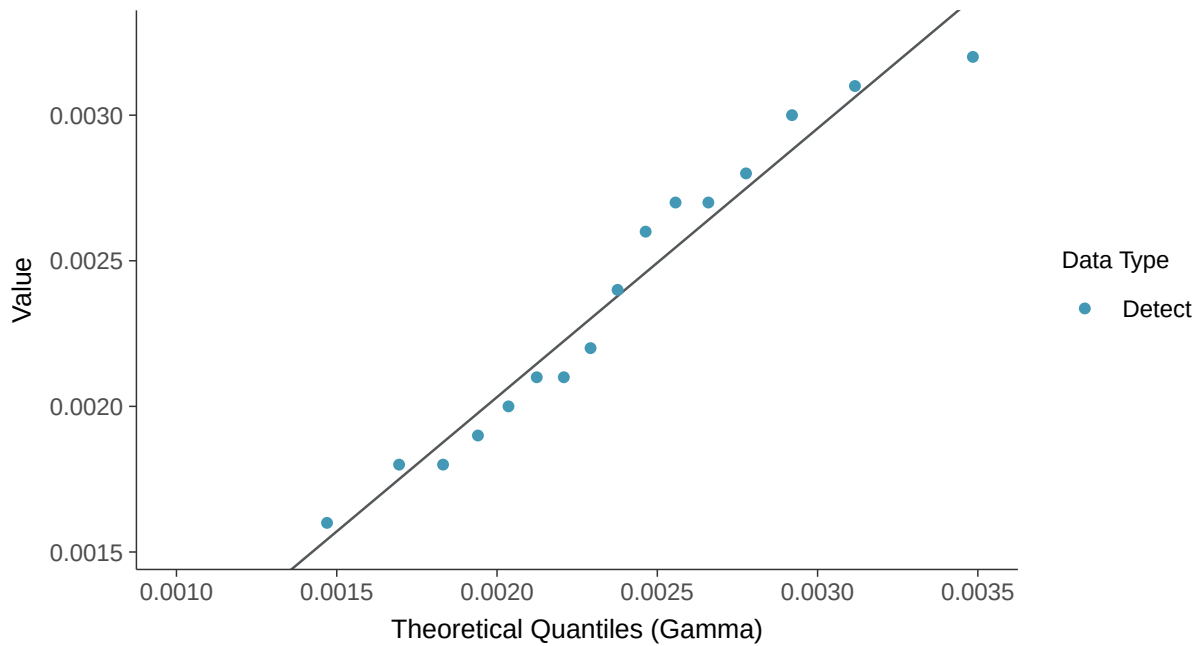
Lognormal Q-Q plot

Chromium, Total, MW-09 (mg/L)



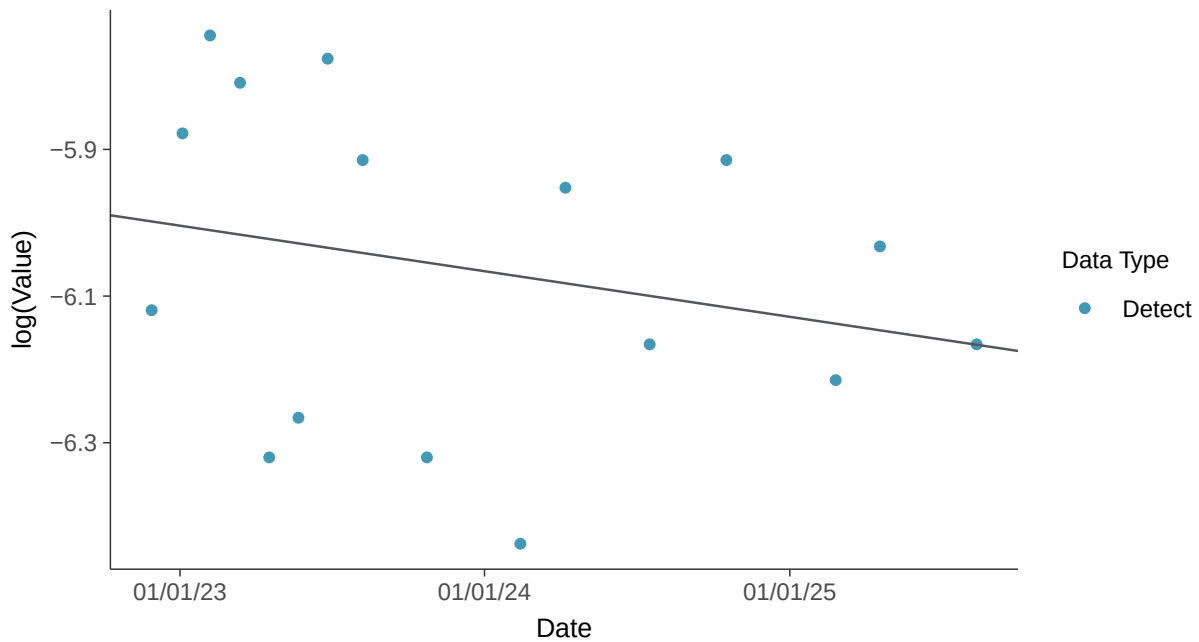
Gamma Q-Q plot

Chromium, Total, MW-09 (mg/L)



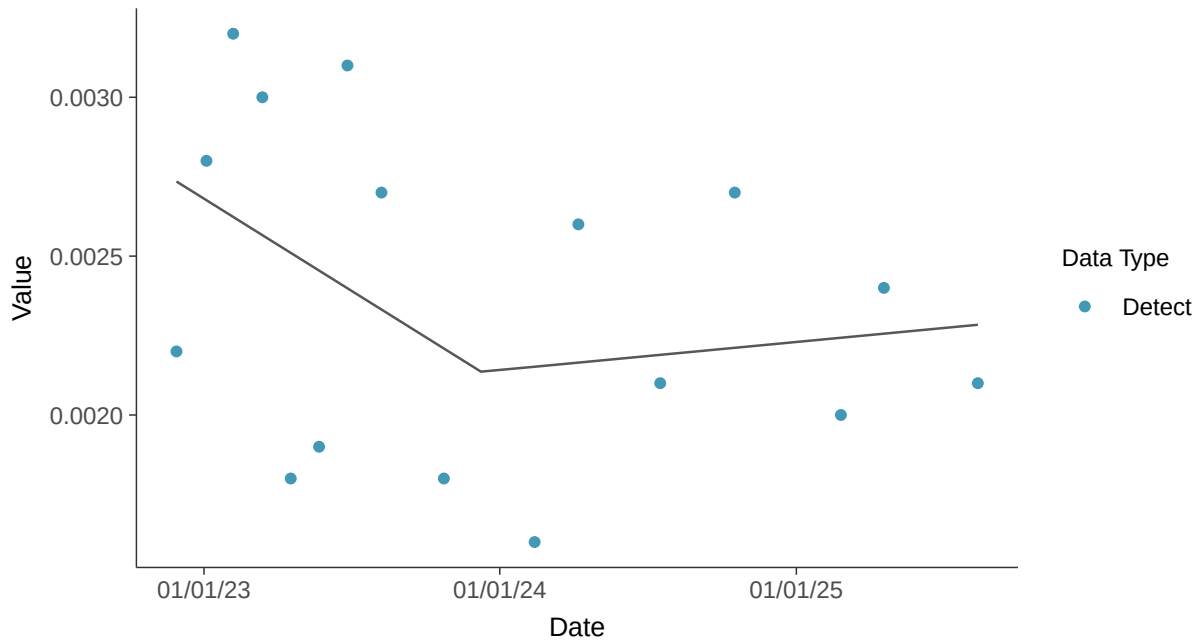
Trend Regression: Lognormal MLE

Chromium, Total, MW-09 (mg/L)



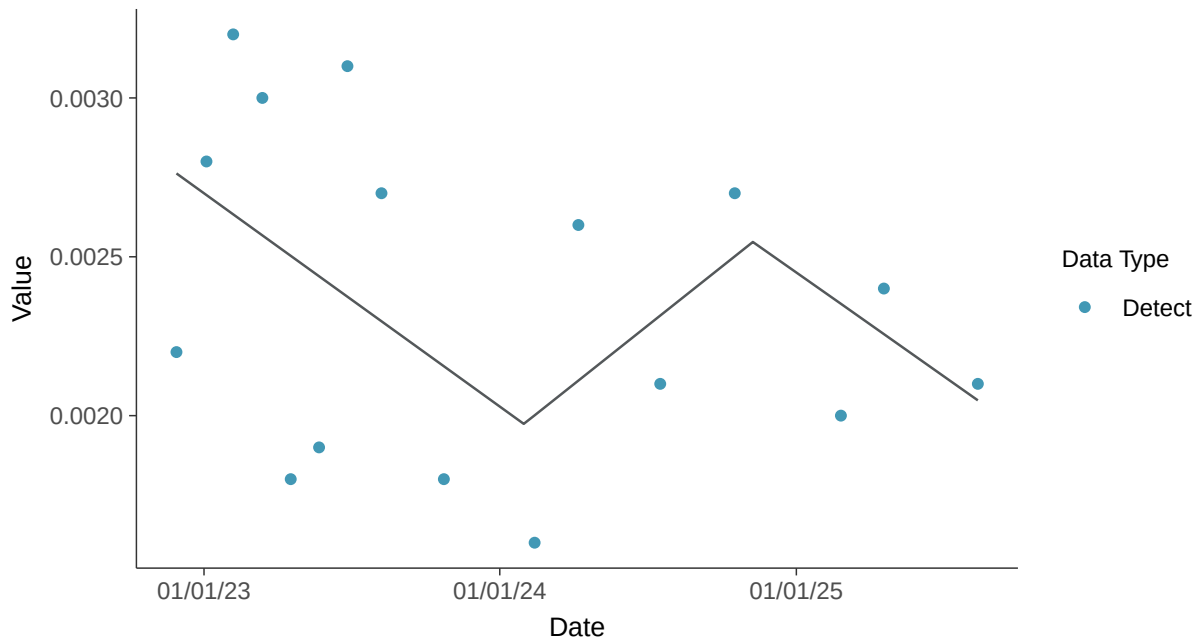
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-09 (mg/L)



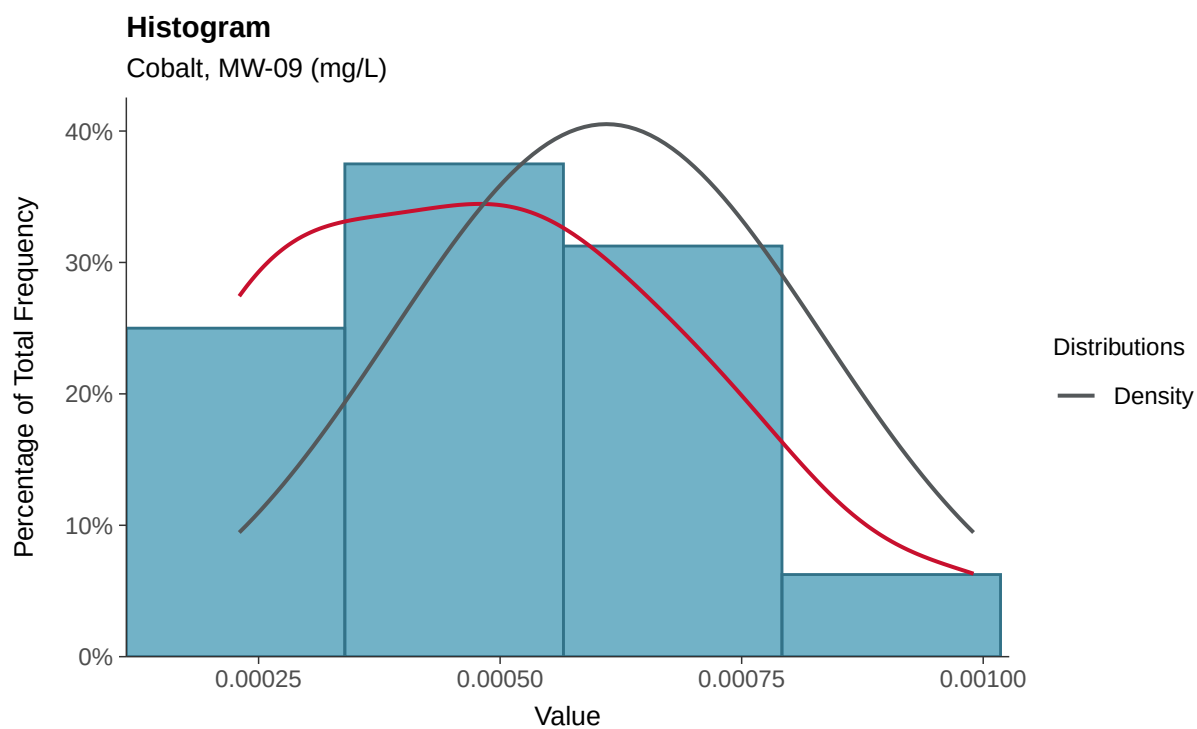
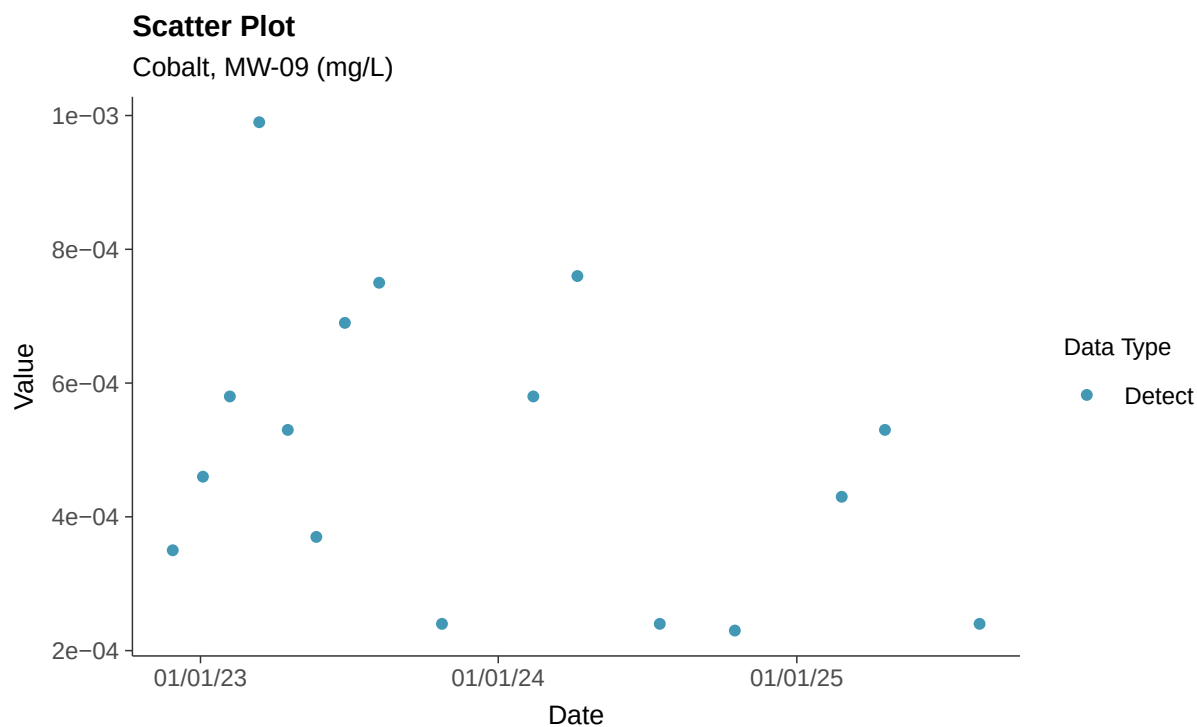
Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-09 (mg/L)



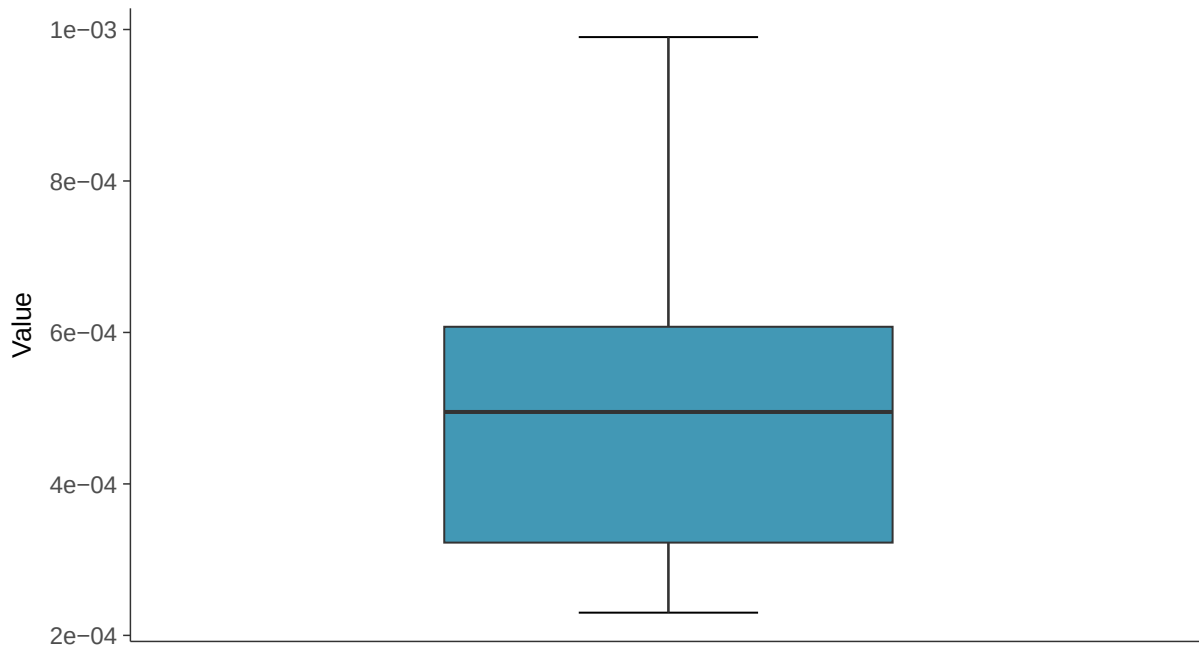
Appendix IV: Cobalt, MW-09

ID: 19_2_4_110



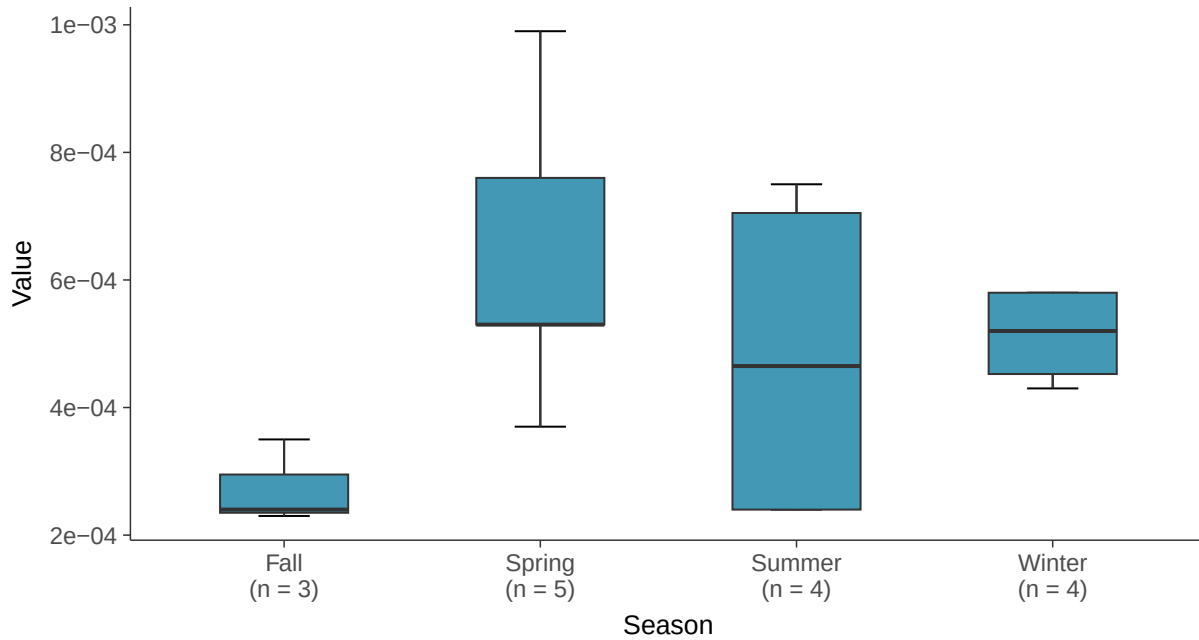
Boxplot

Cobalt, MW-09 (mg/L)



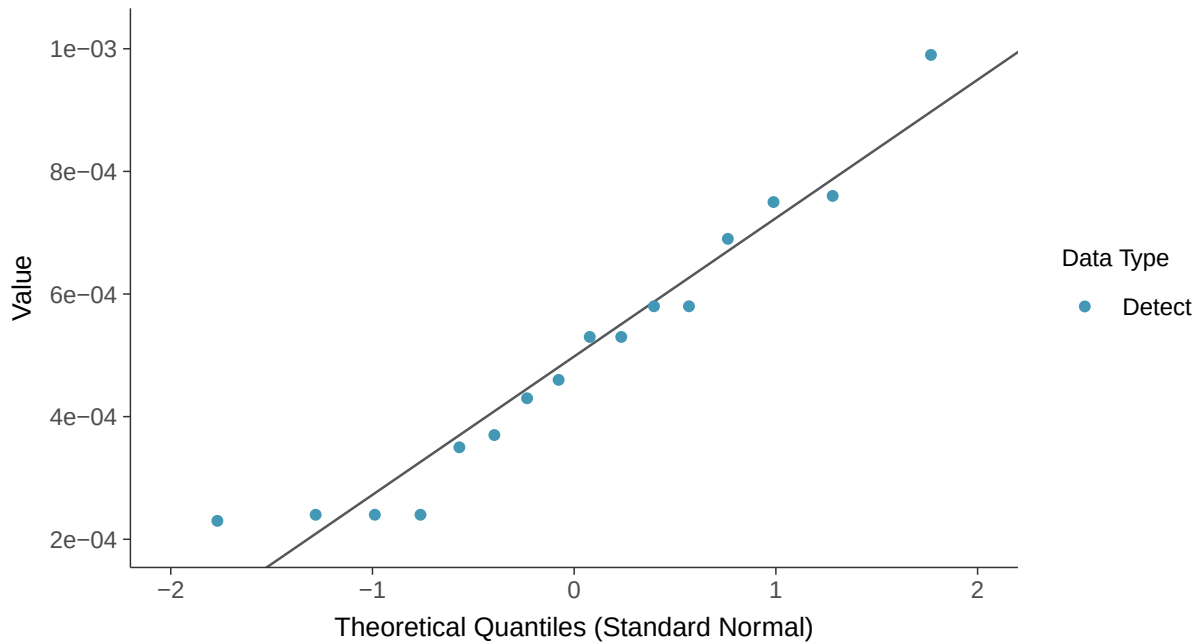
Boxplot by Season

Cobalt, MW-09 (mg/L)



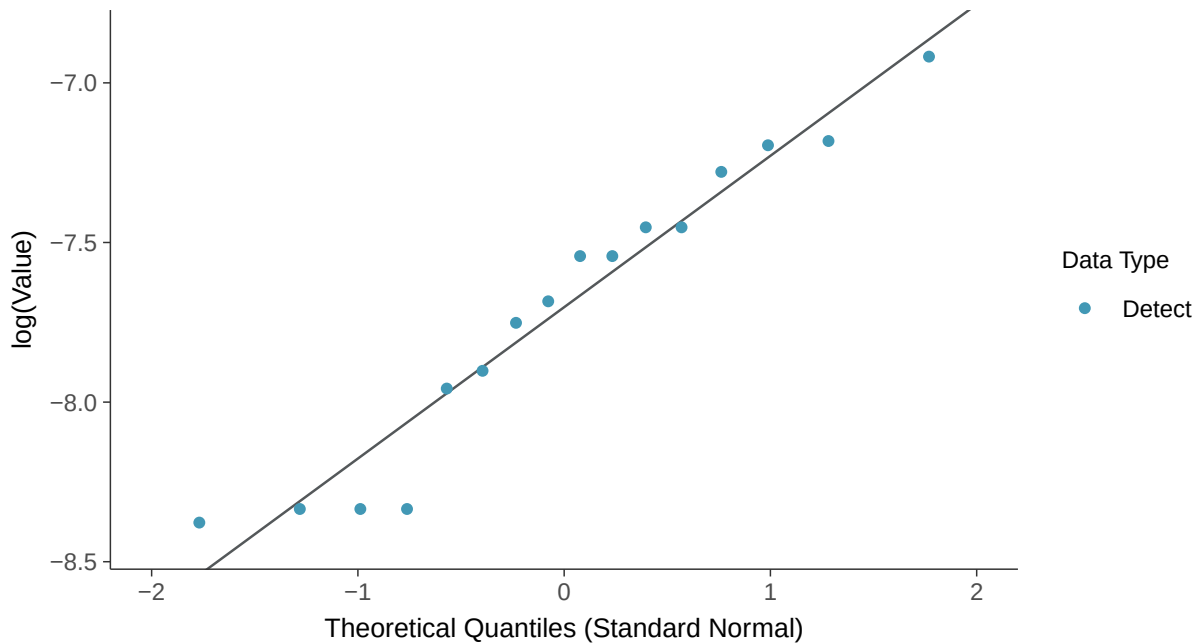
Normal Q-Q plot

Cobalt, MW-09 (mg/L)



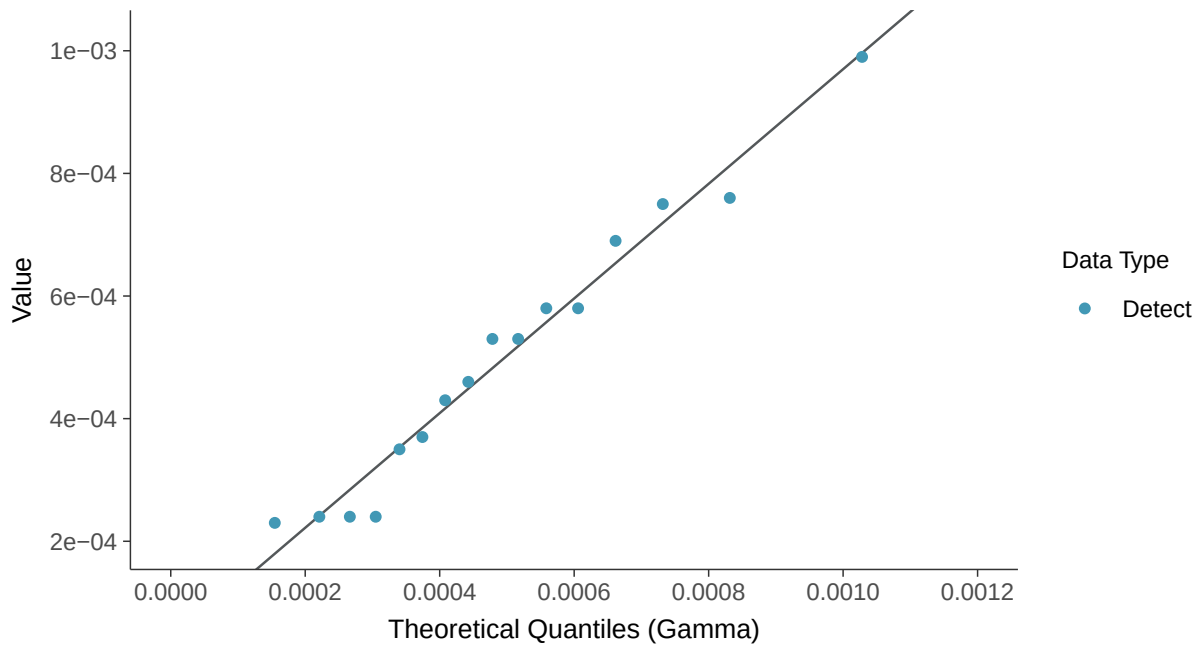
Lognormal Q-Q plot

Cobalt, MW-09 (mg/L)



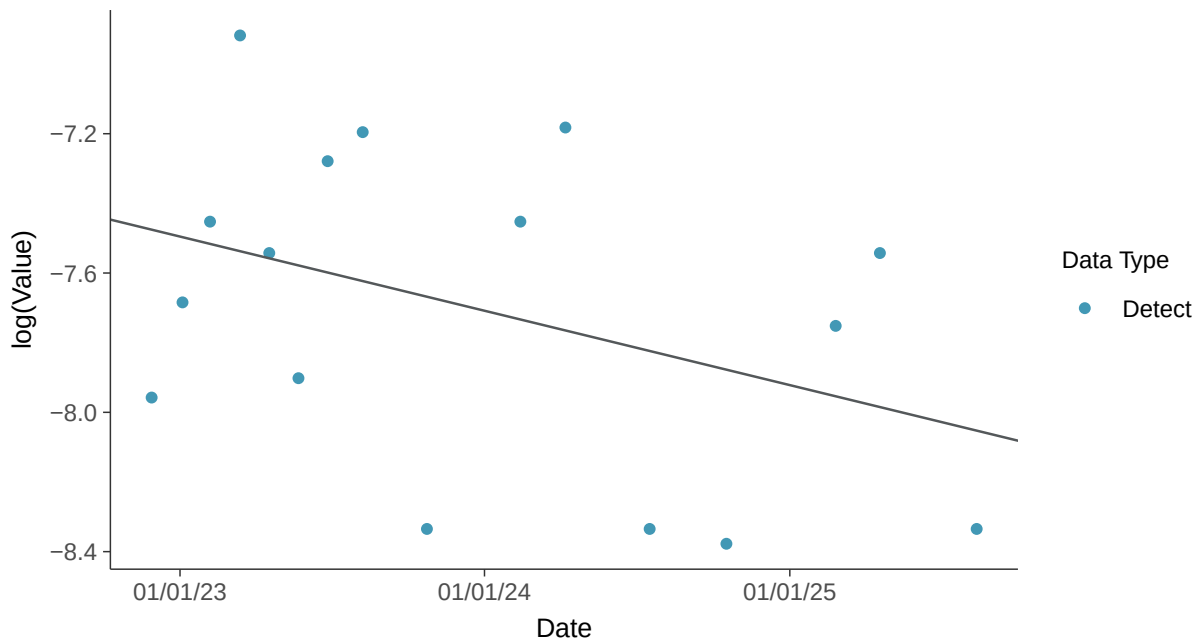
Gamma Q-Q plot

Cobalt, MW-09 (mg/L)



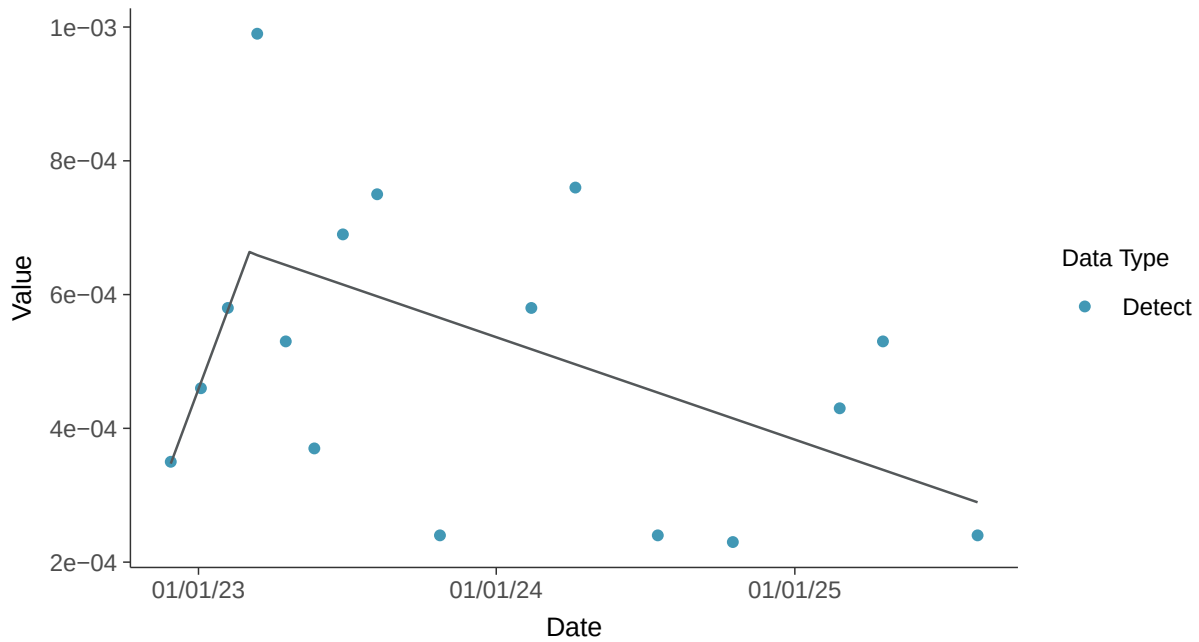
Trend Regression: Lognormal MLE

Cobalt, MW-09 (mg/L)



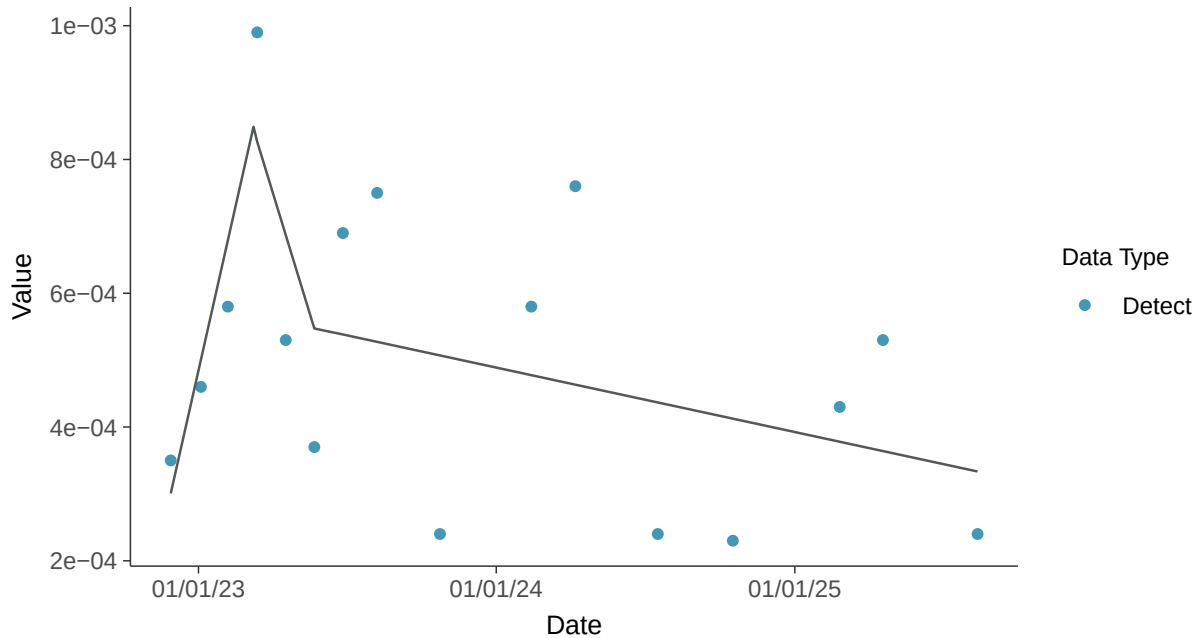
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-09 (mg/L)



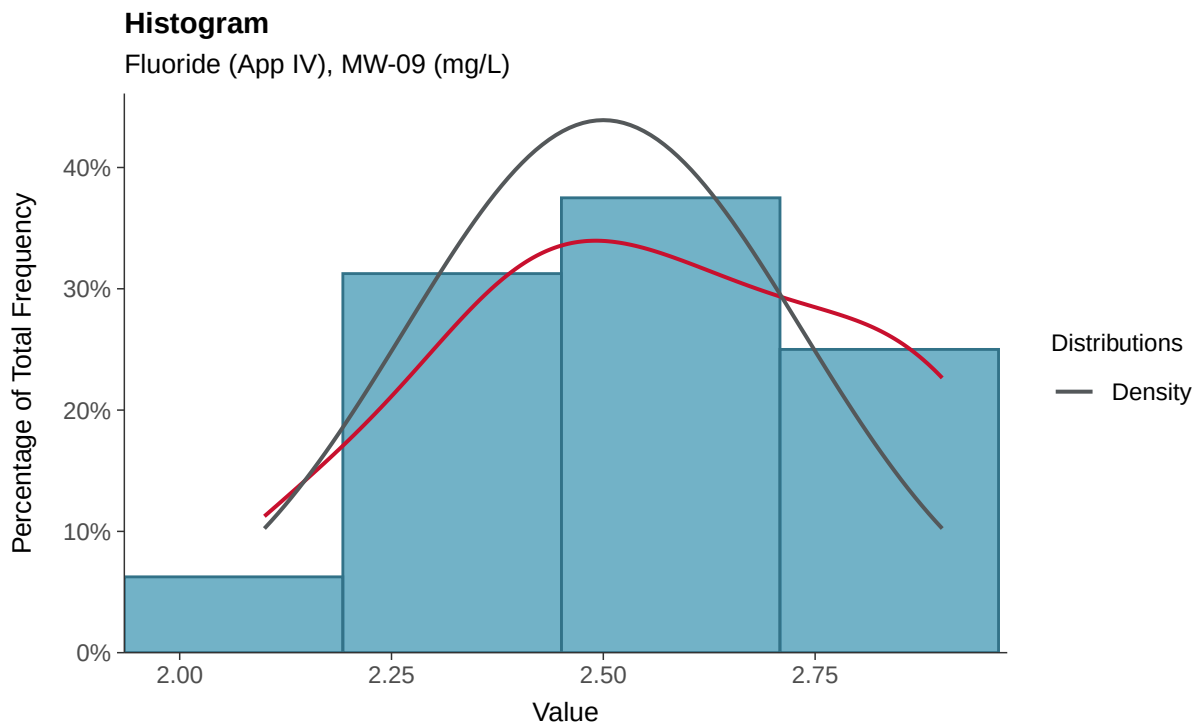
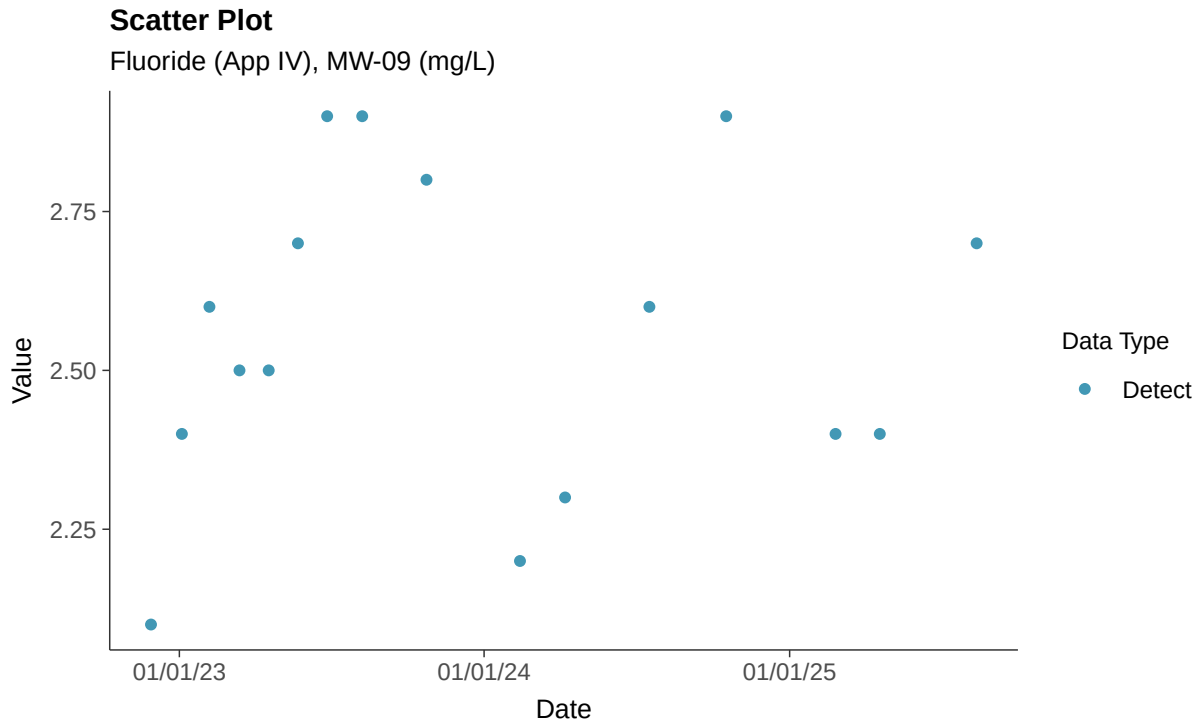
Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-09 (mg/L)



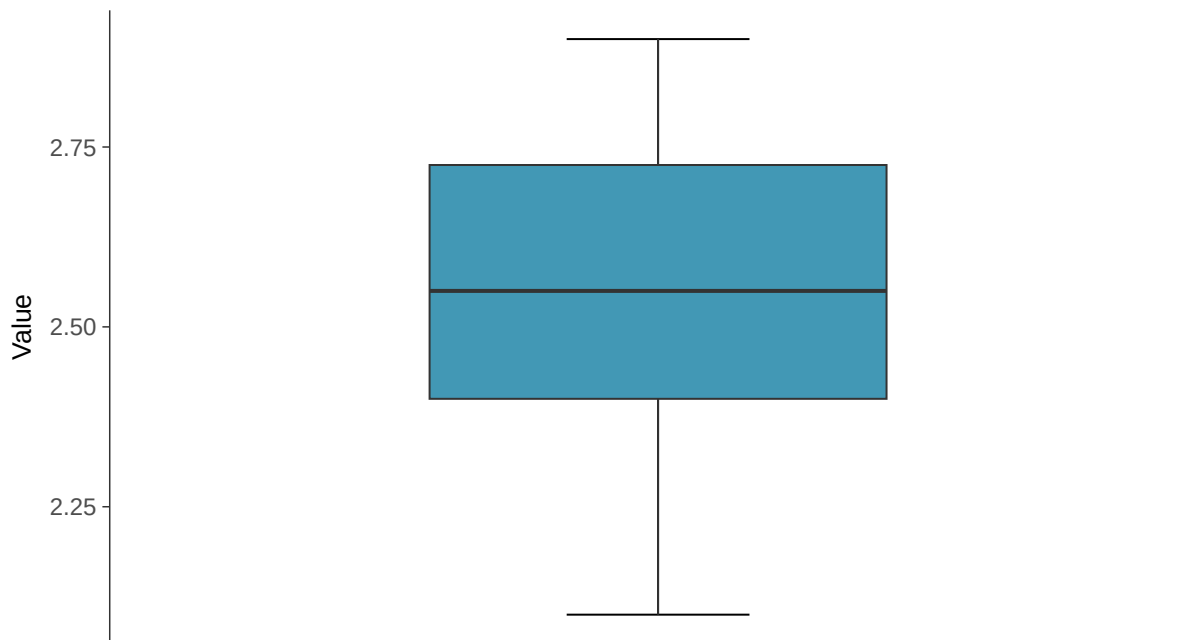
Appendix IV: Fluoride (App IV), MW-09

ID: 19_2_4_113



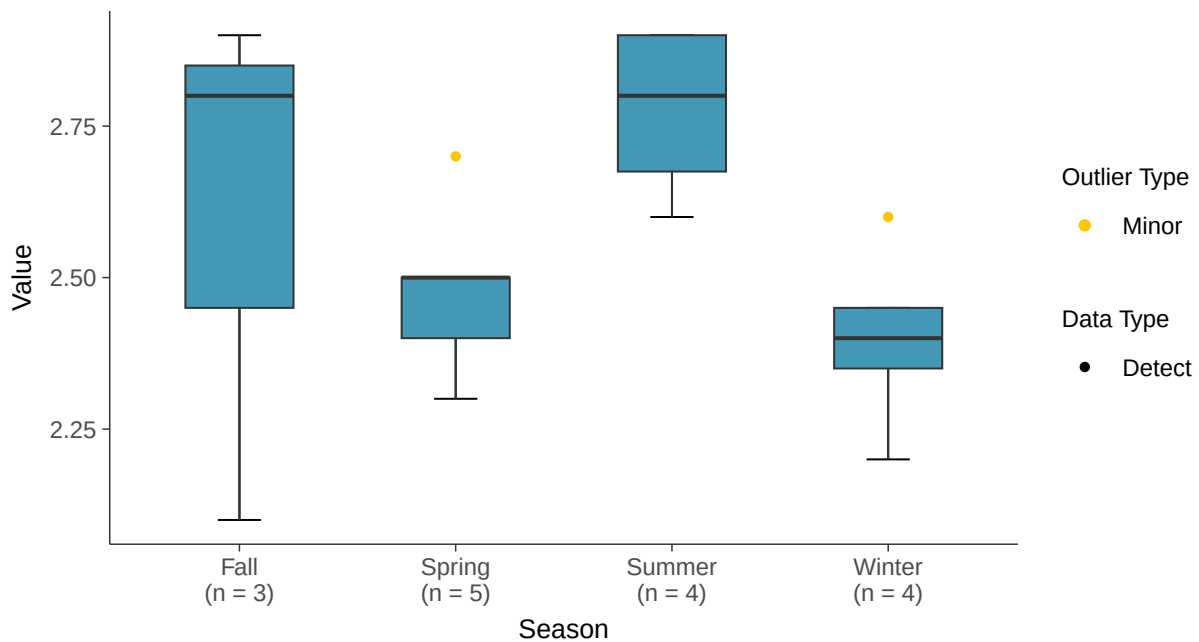
Boxplot

Fluoride (App IV), MW-09 (mg/L)



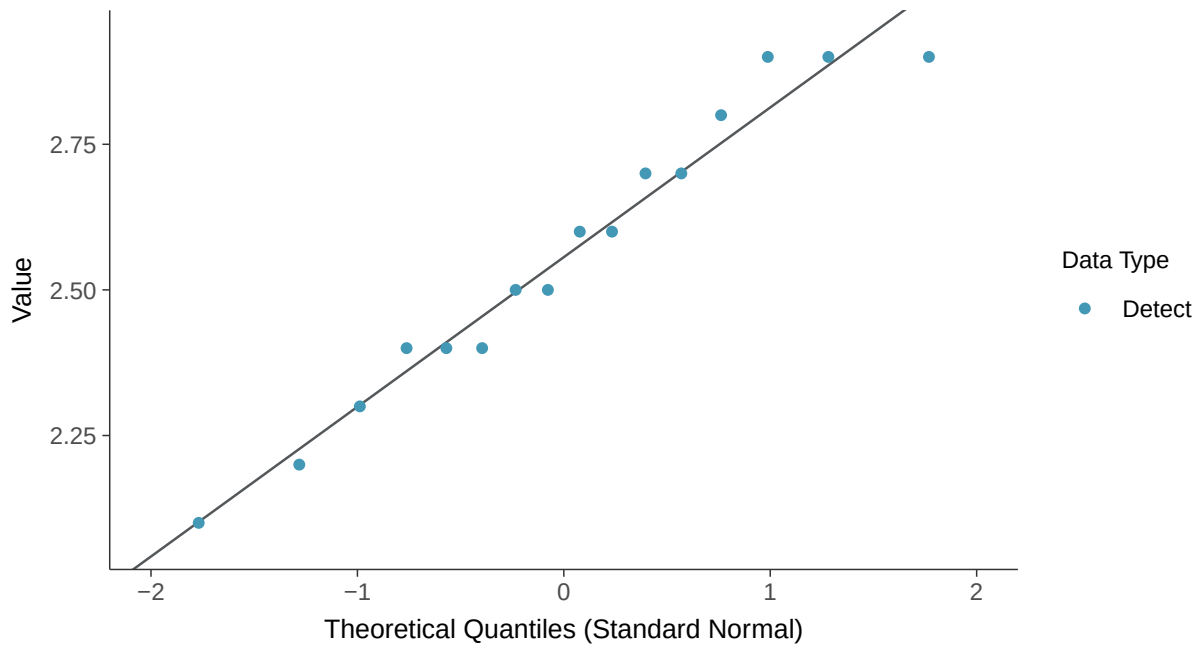
Boxplot by Season

Fluoride (App IV), MW-09 (mg/L)



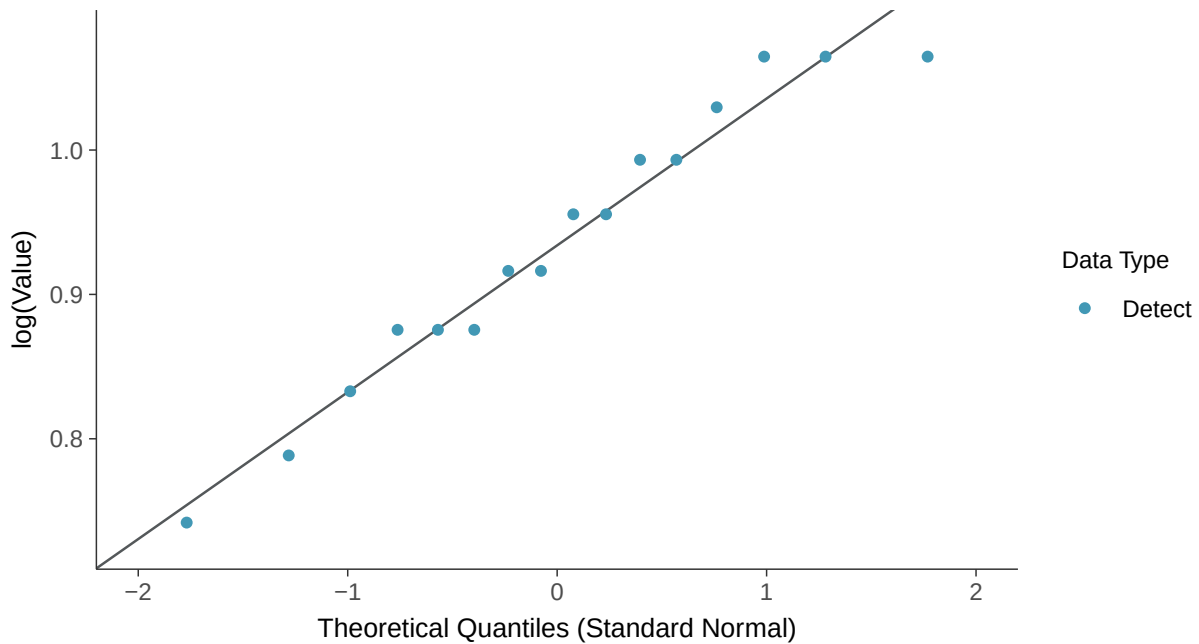
Normal Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



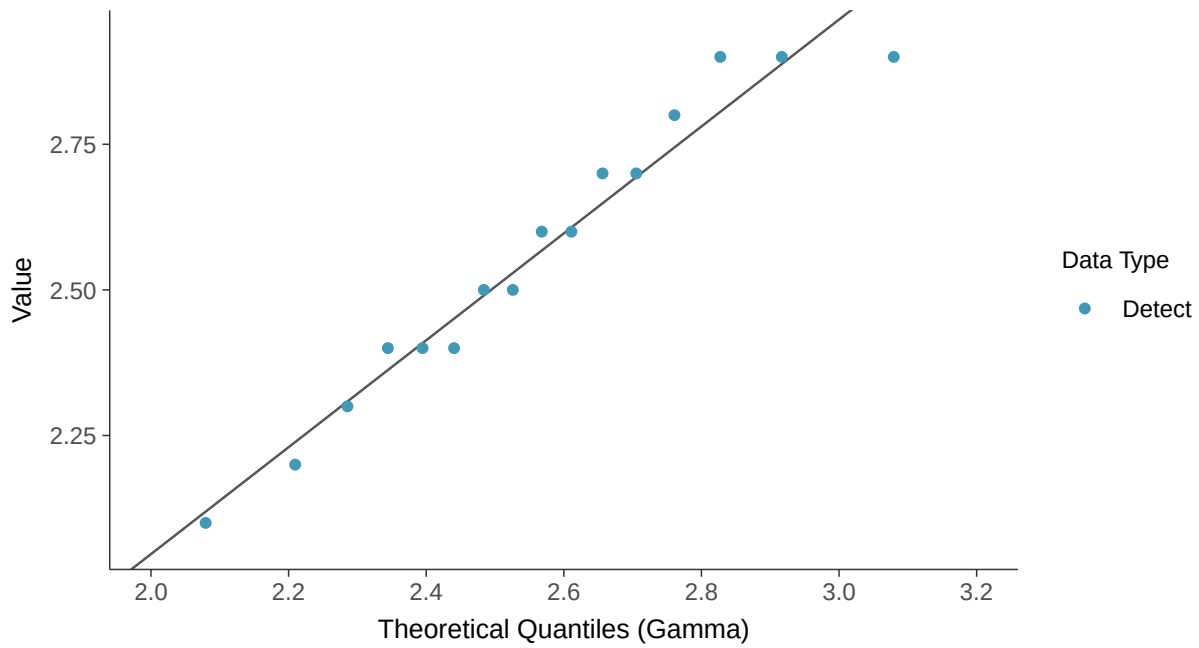
Lognormal Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



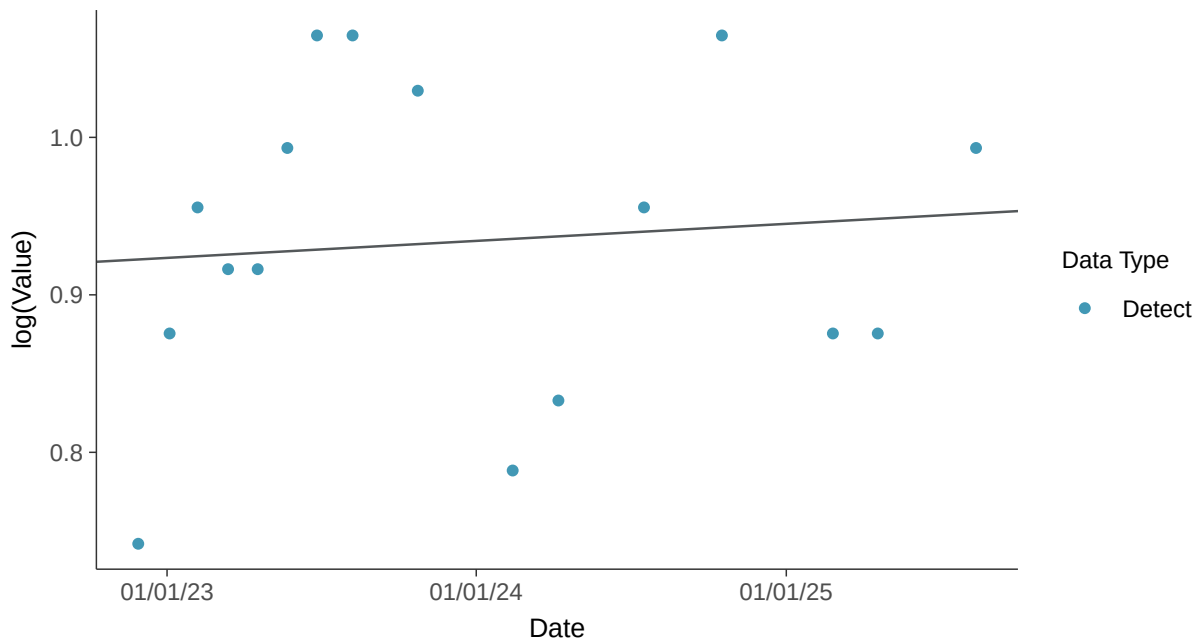
Gamma Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



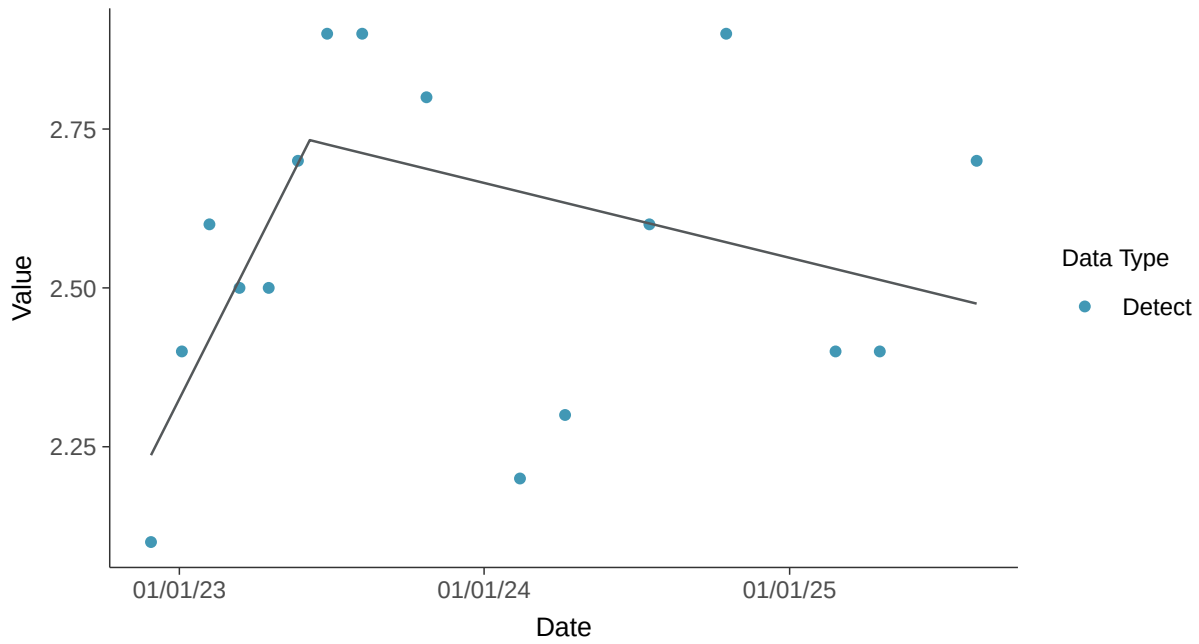
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-09 (mg/L)



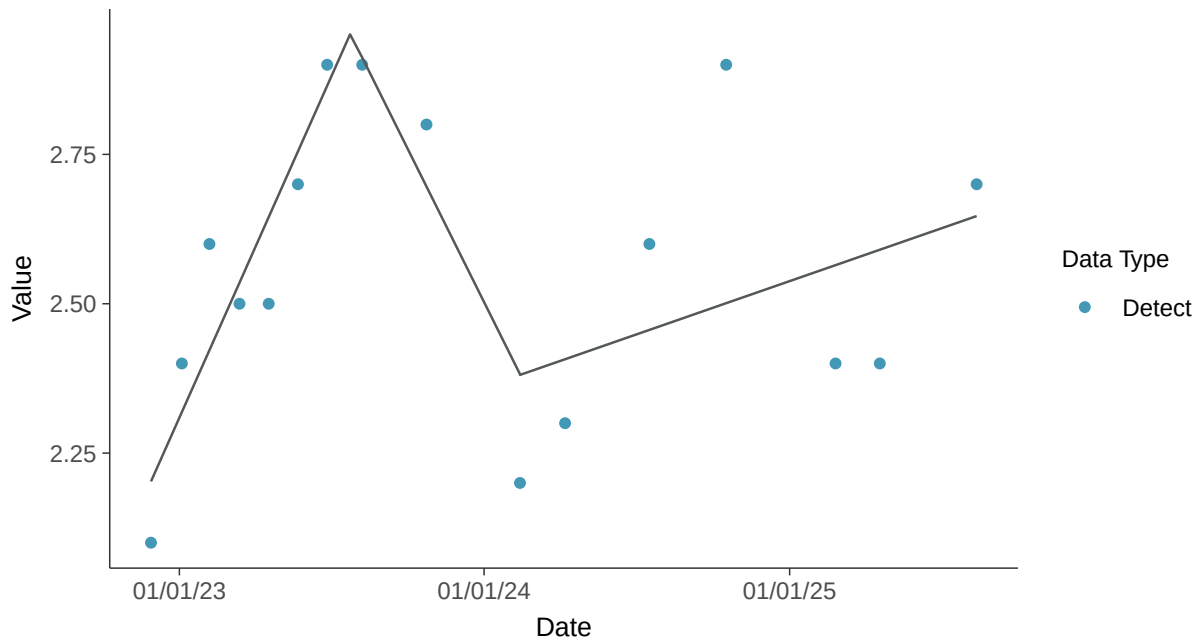
Trend Regression: Piecewise Linear-Linear

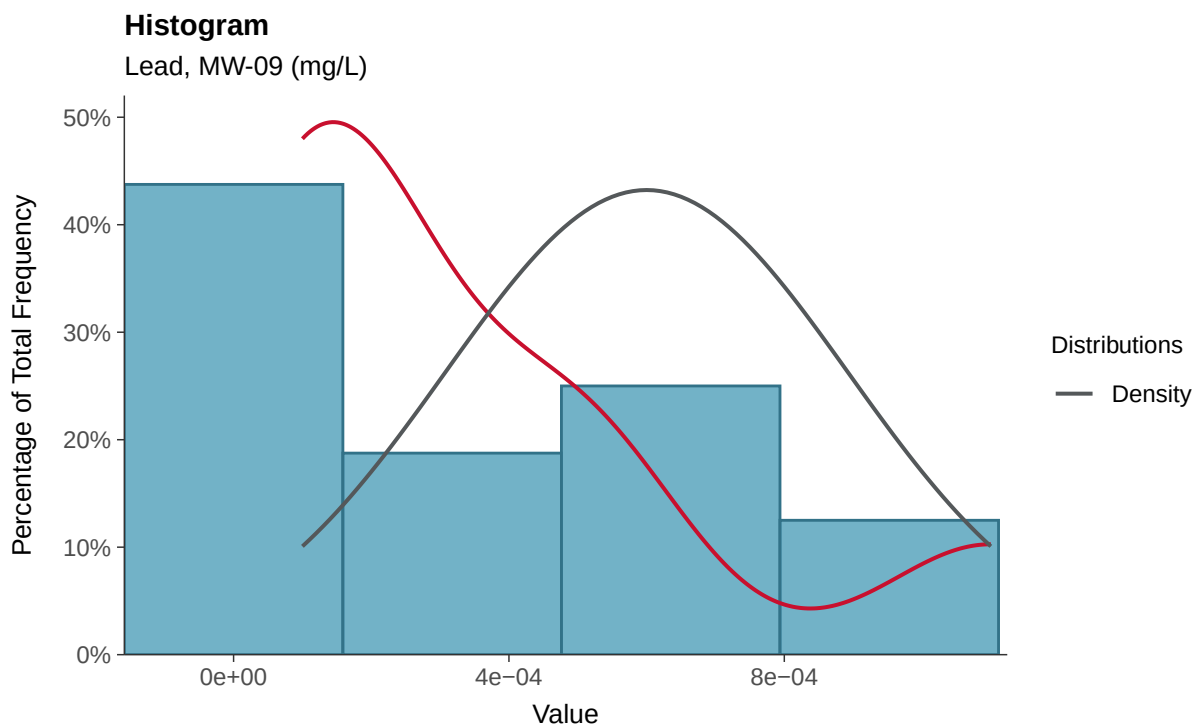
Fluoride (App IV), MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

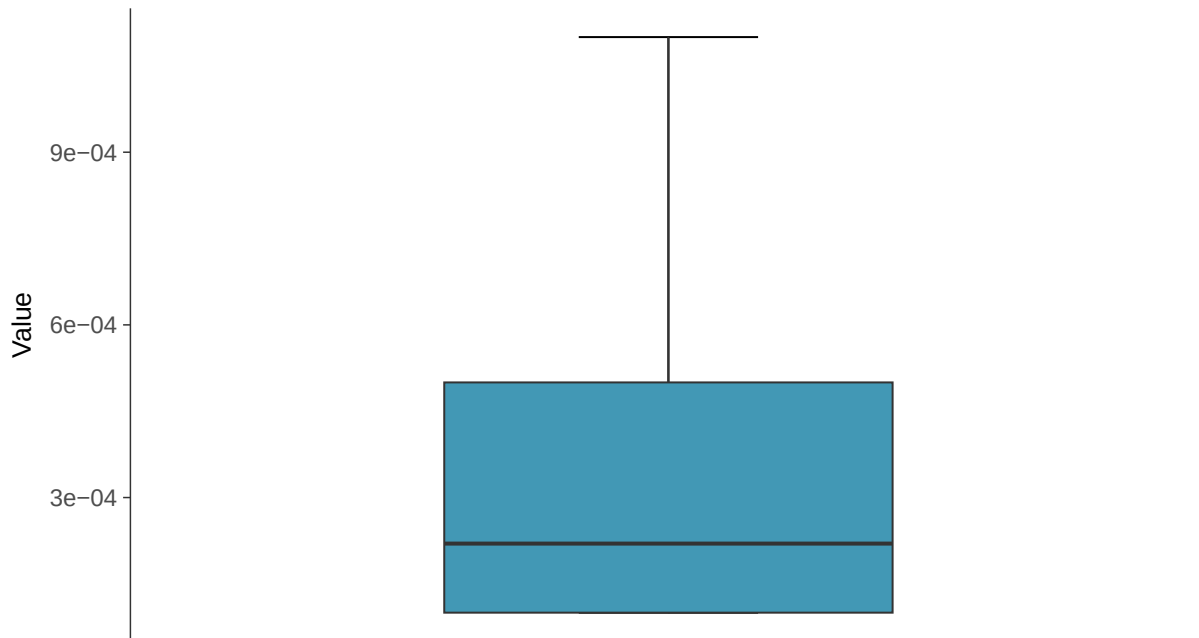
Fluoride (App IV), MW-09 (mg/L)





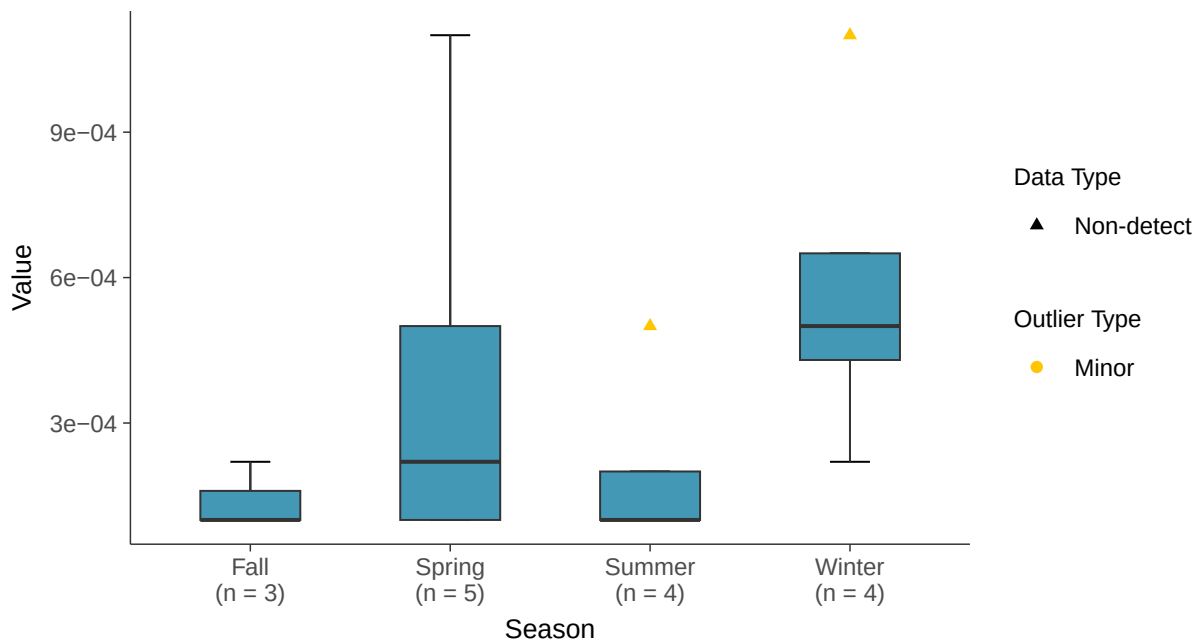
Boxplot

Lead, MW-09 (mg/L)



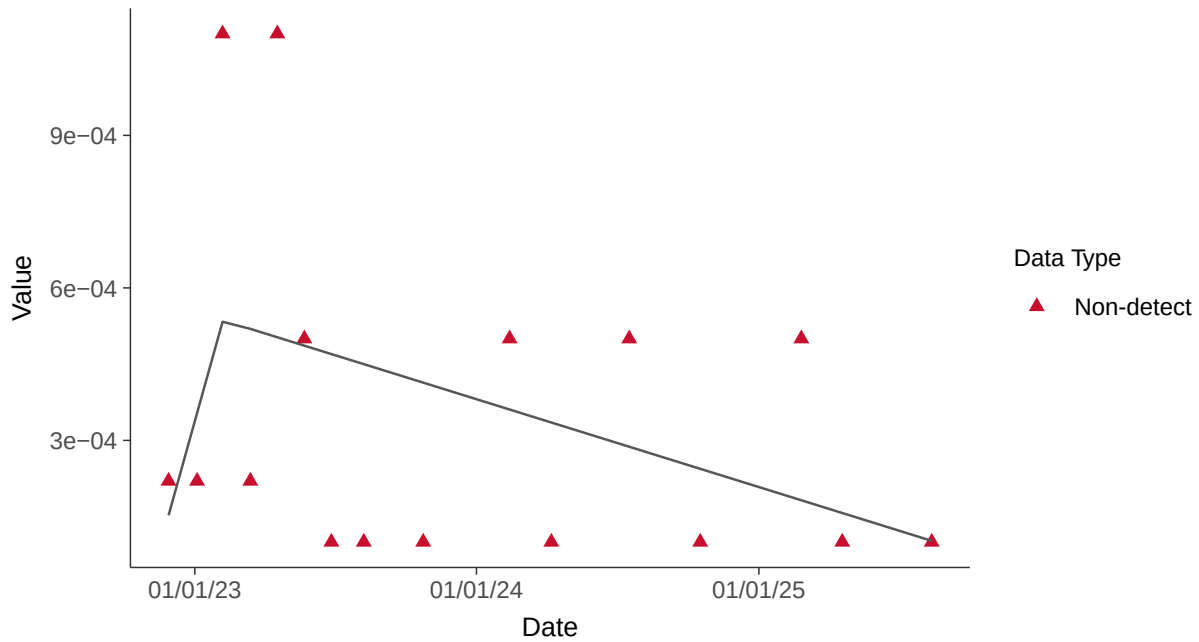
Boxplot by Season

Lead, MW-09 (mg/L)



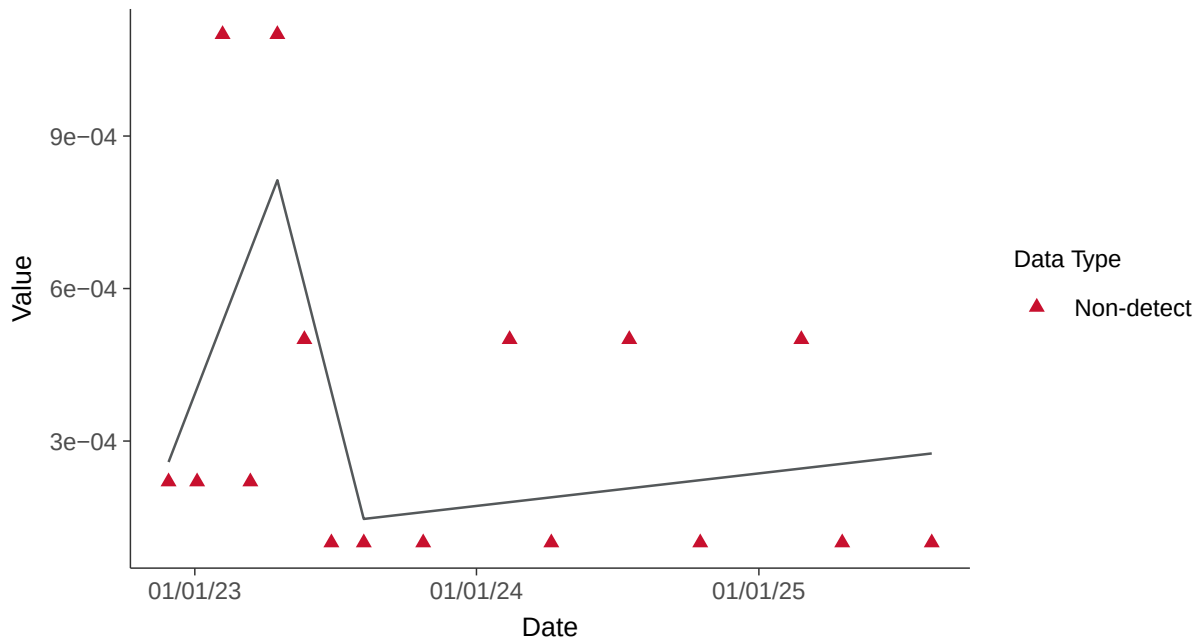
Trend Regression: Piecewise Linear-Linear

Lead, MW-09 (mg/L)



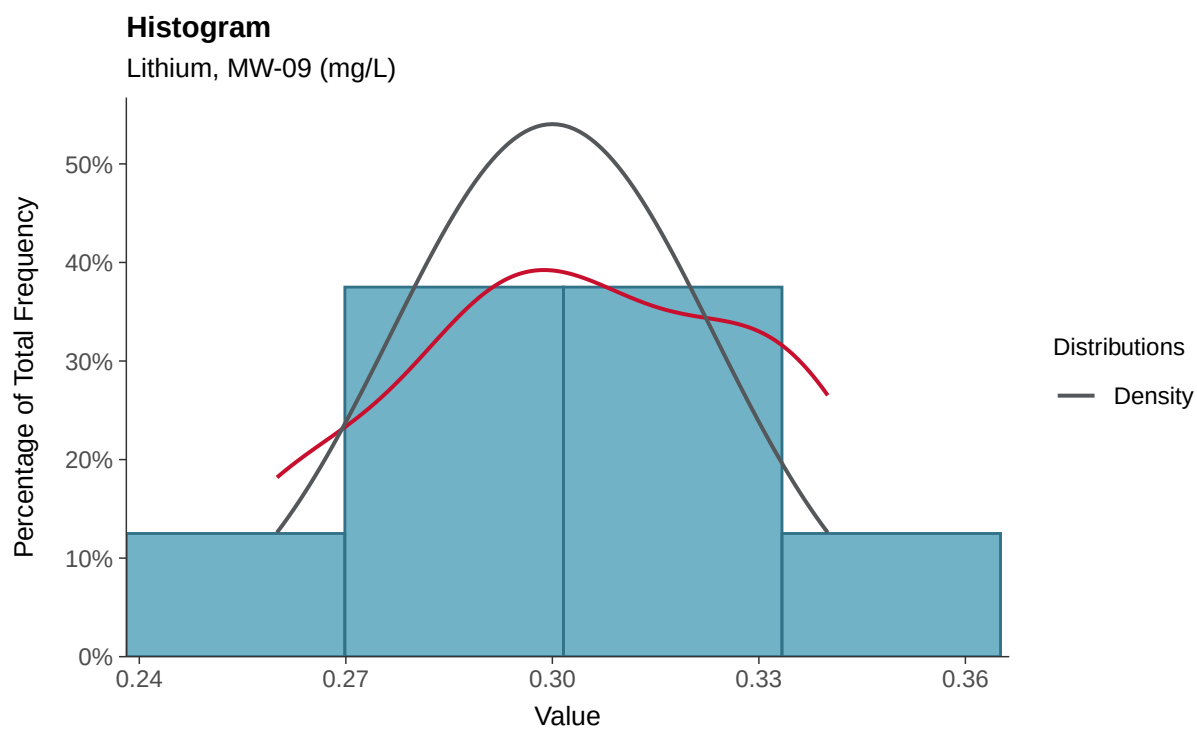
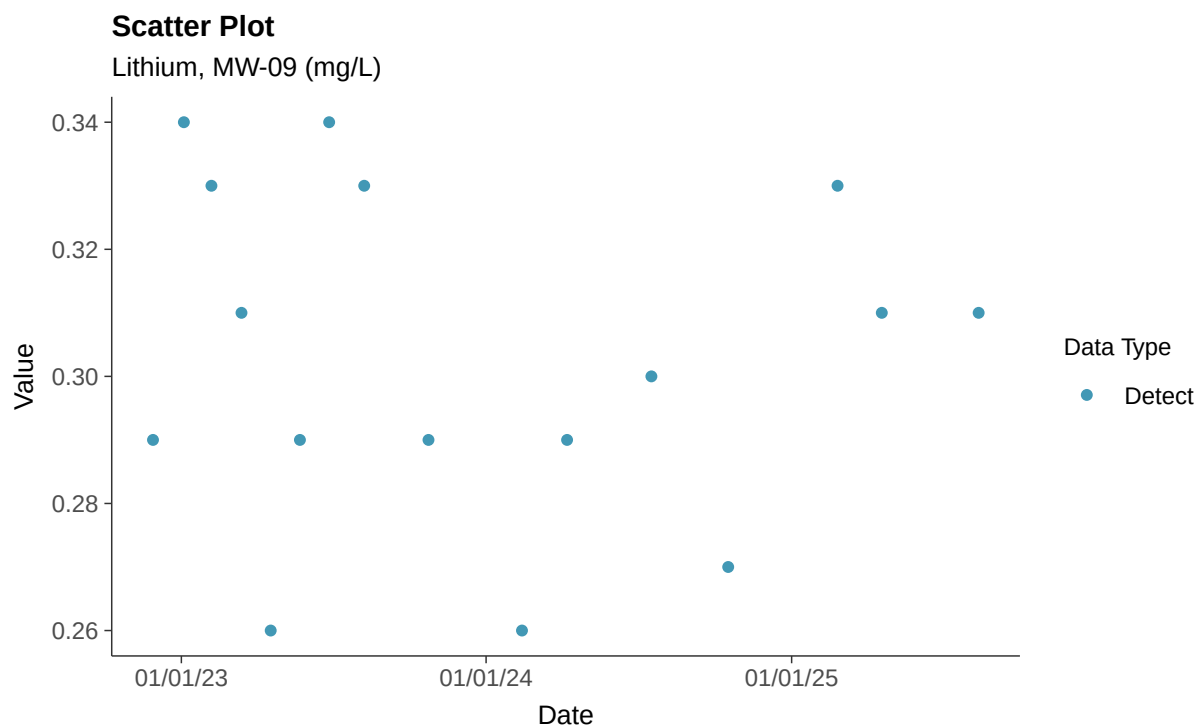
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-09 (mg/L)



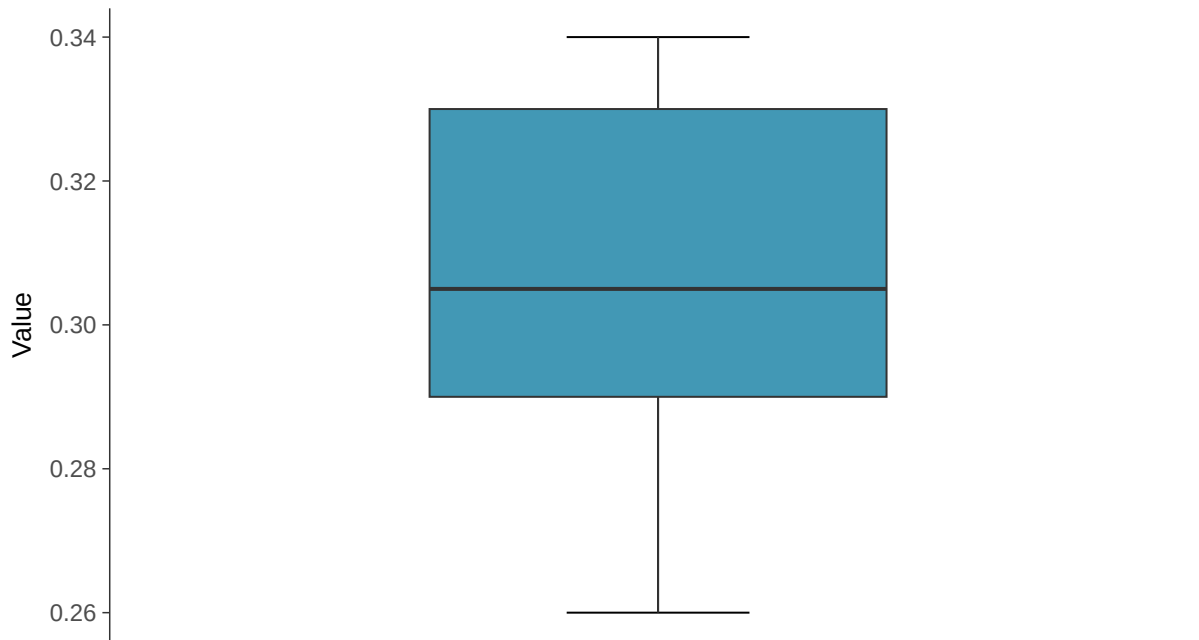
Appendix IV: Lithium, MW-09

ID: 19_2_4_116



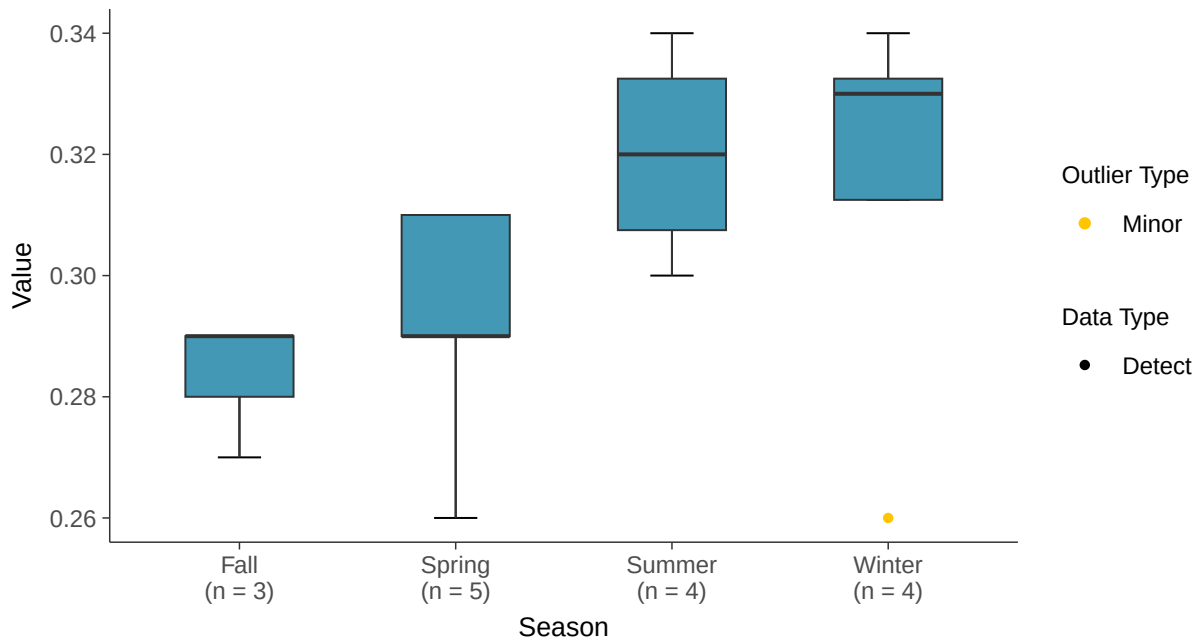
Boxplot

Lithium, MW-09 (mg/L)



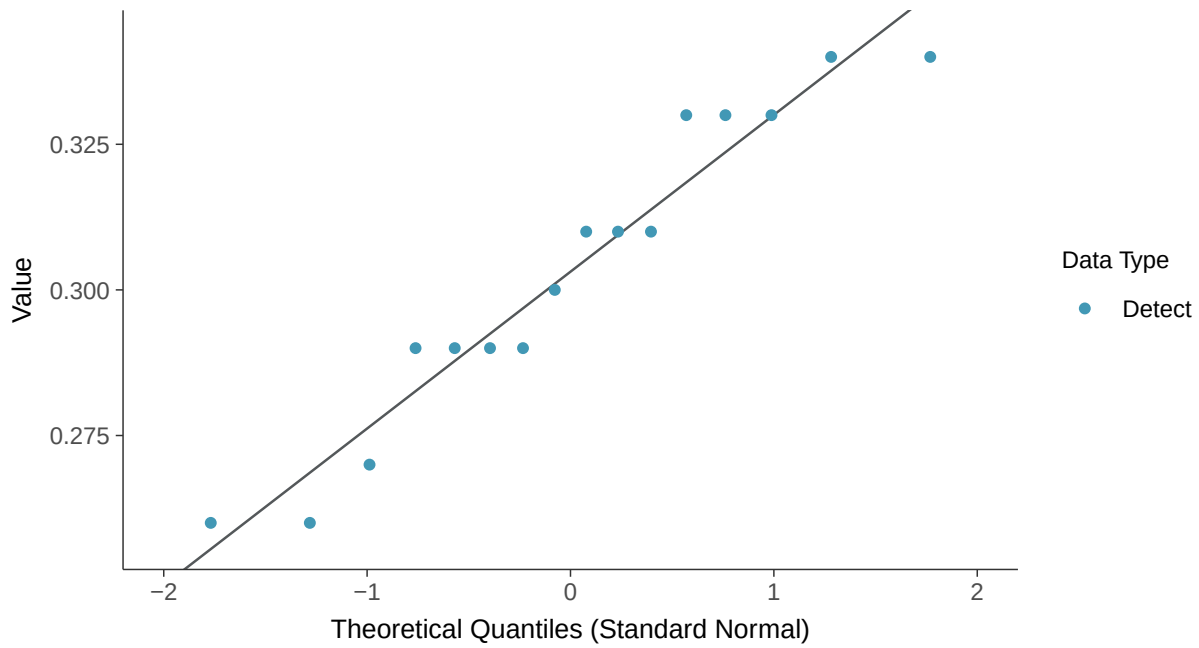
Boxplot by Season

Lithium, MW-09 (mg/L)



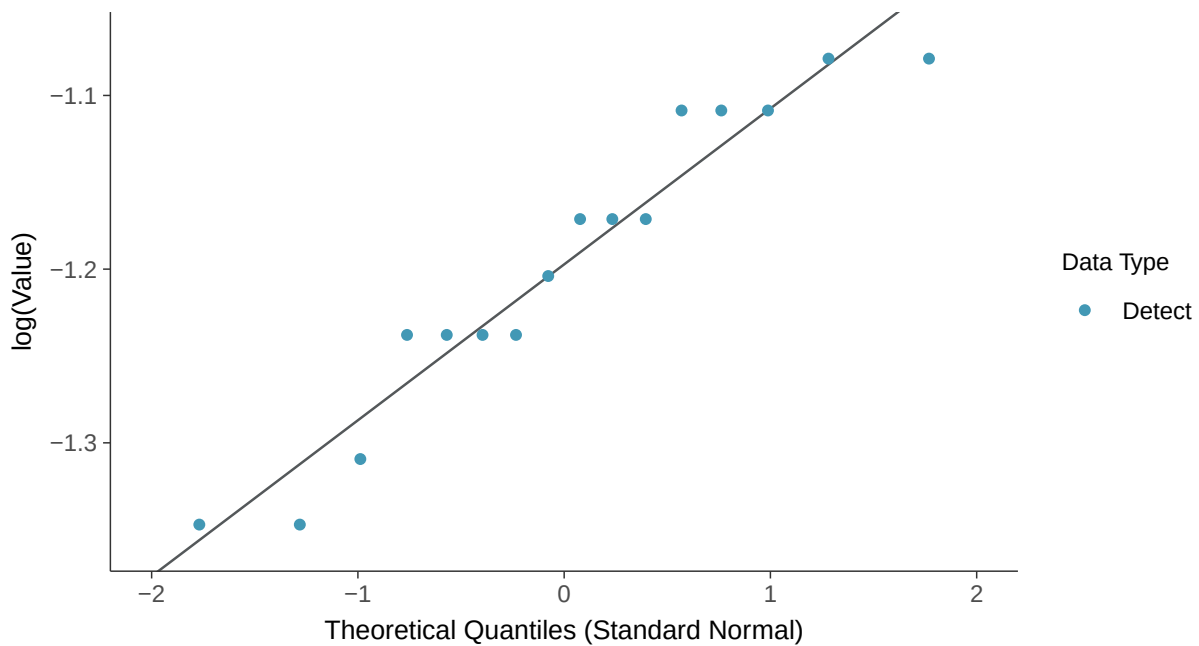
Normal Q-Q plot

Lithium, MW-09 (mg/L)



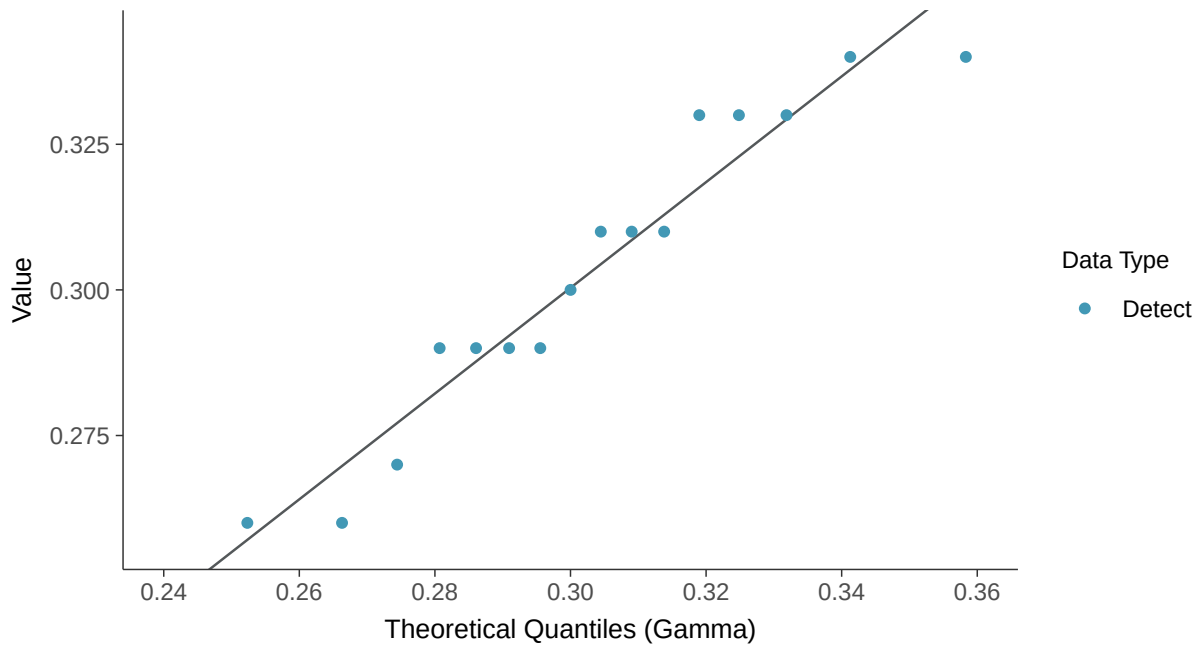
Lognormal Q-Q plot

Lithium, MW-09 (mg/L)



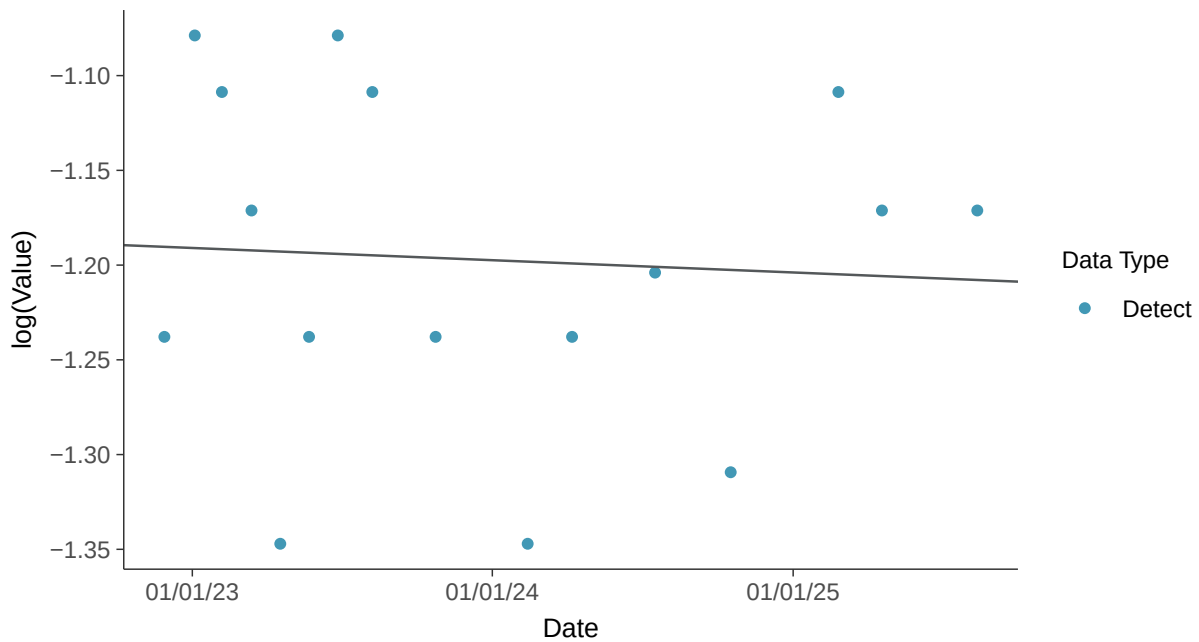
Gamma Q-Q plot

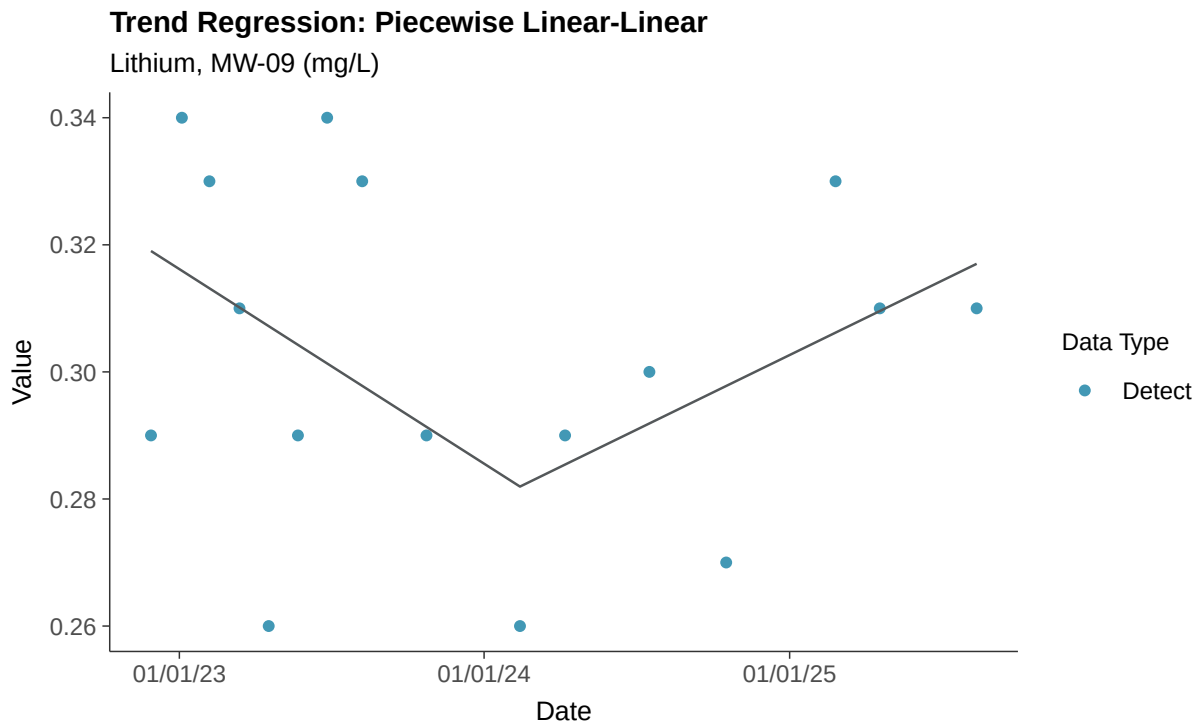
Lithium, MW-09 (mg/L)

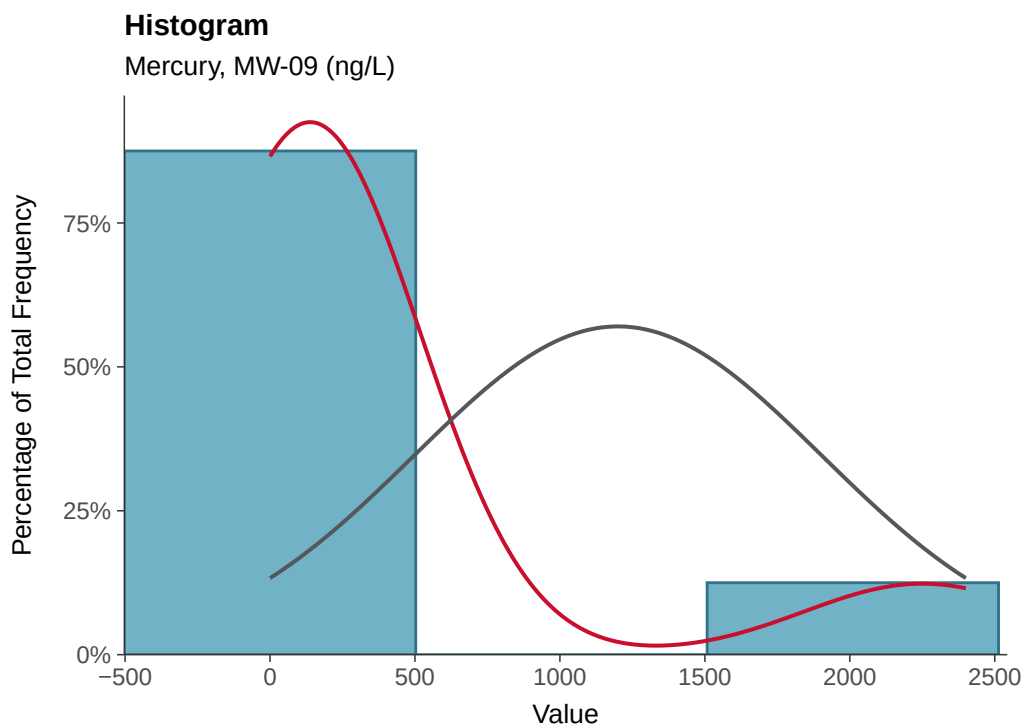


Trend Regression: Lognormal MLE

Lithium, MW-09 (mg/L)

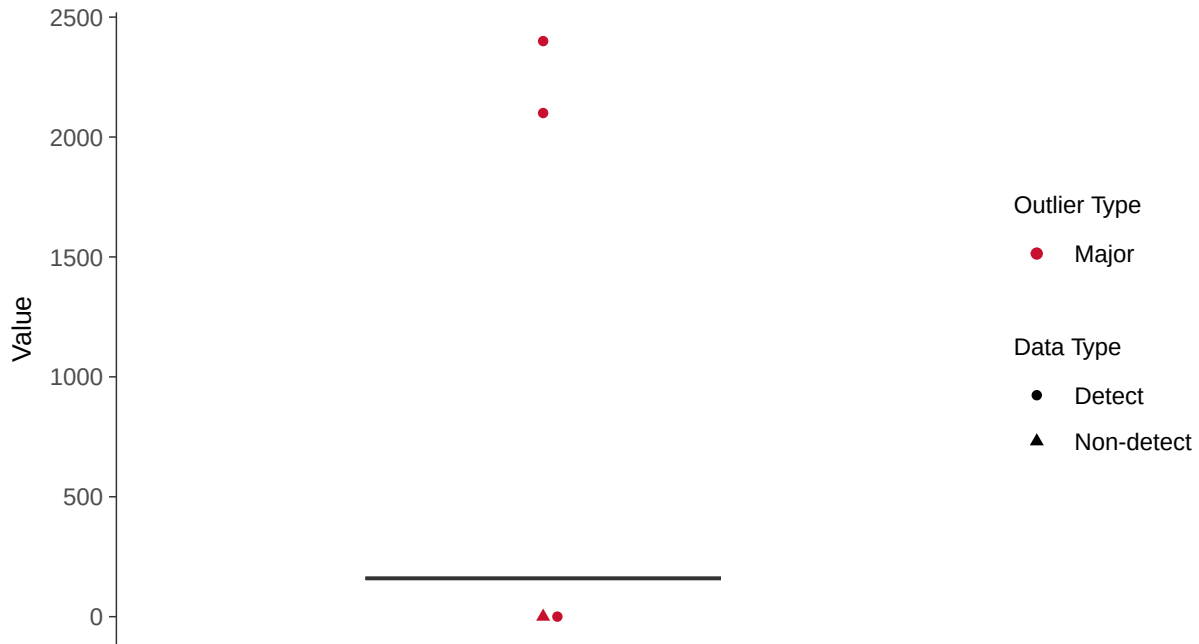






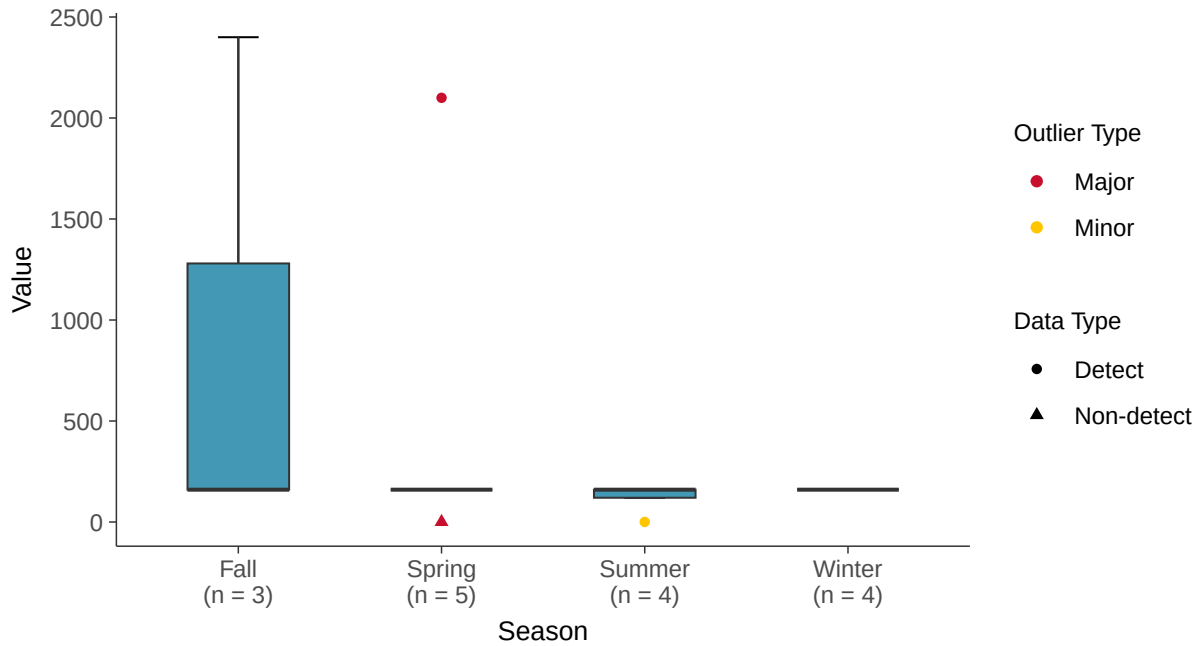
Boxplot

Mercury, MW-09 (ng/L)

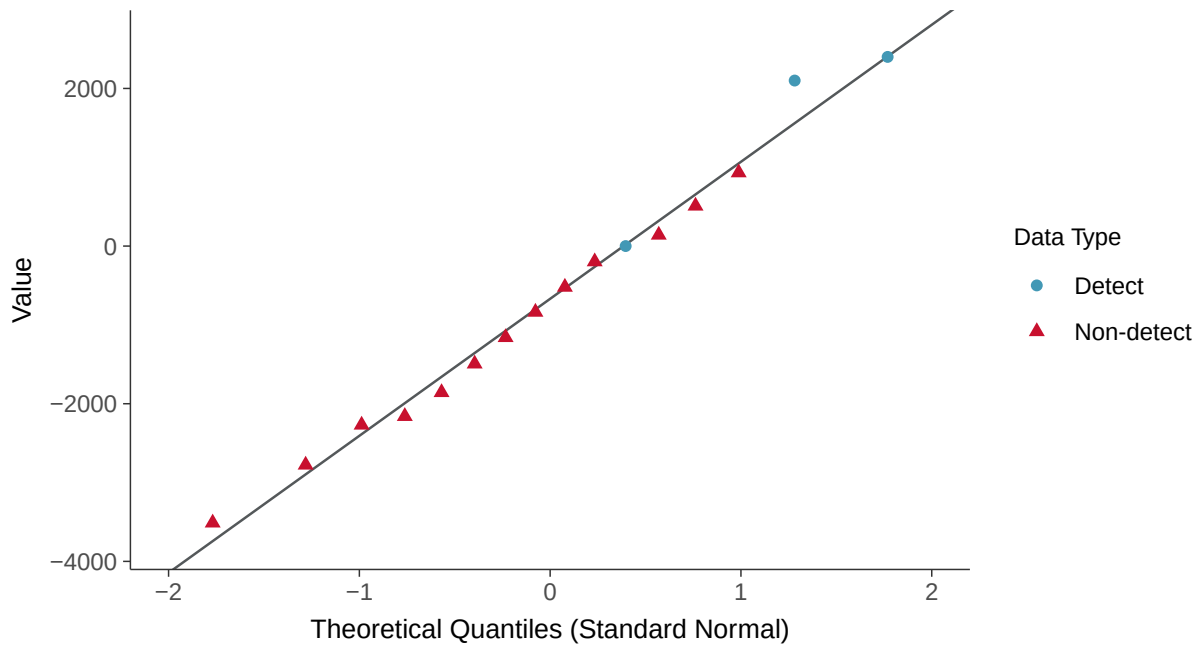


Boxplot by Season

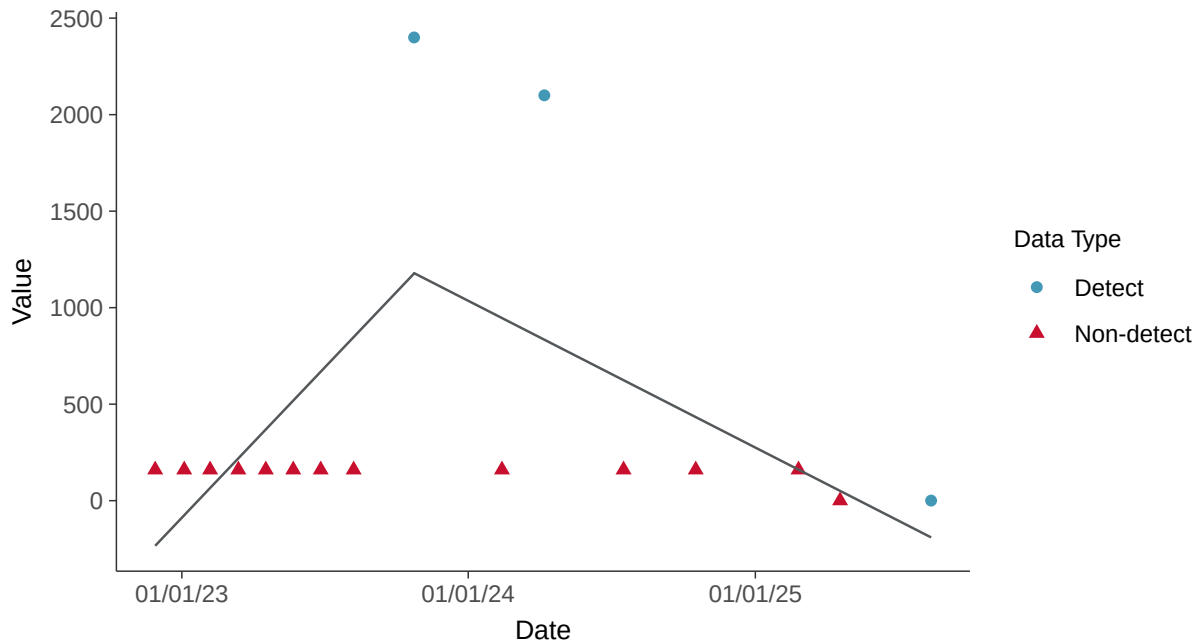
Mercury, MW-09 (ng/L)



Mercury, MW-09 (ng/L)

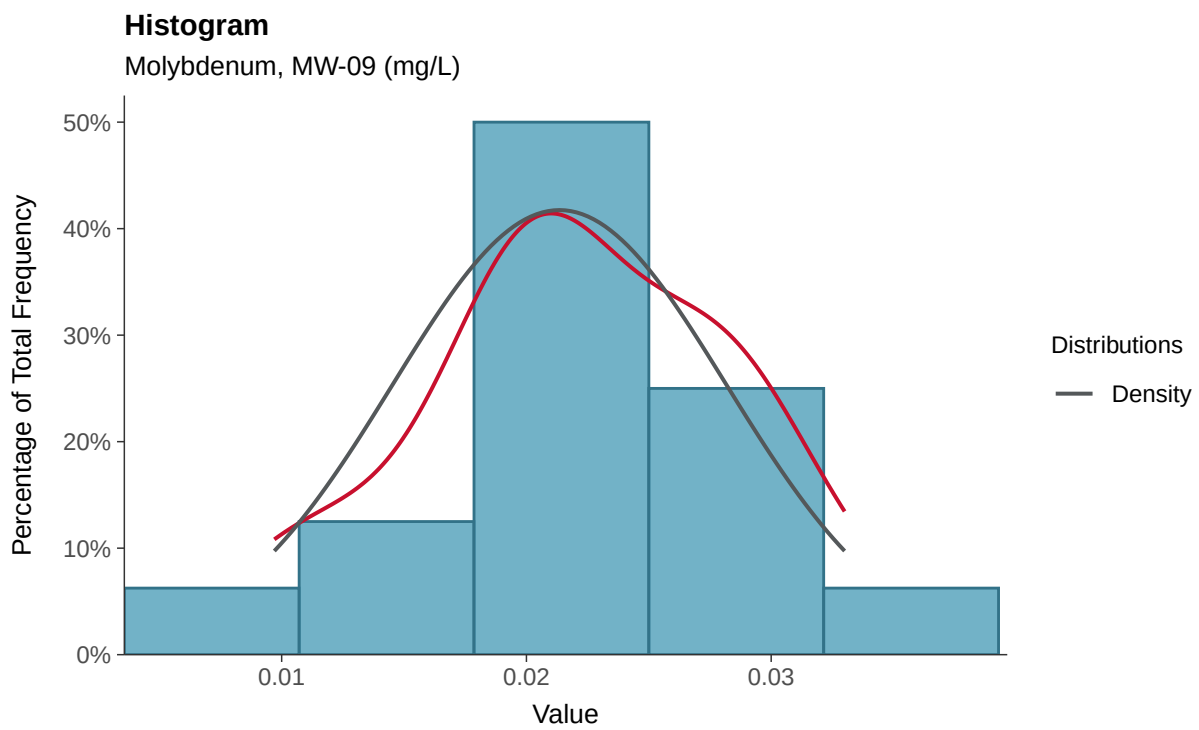
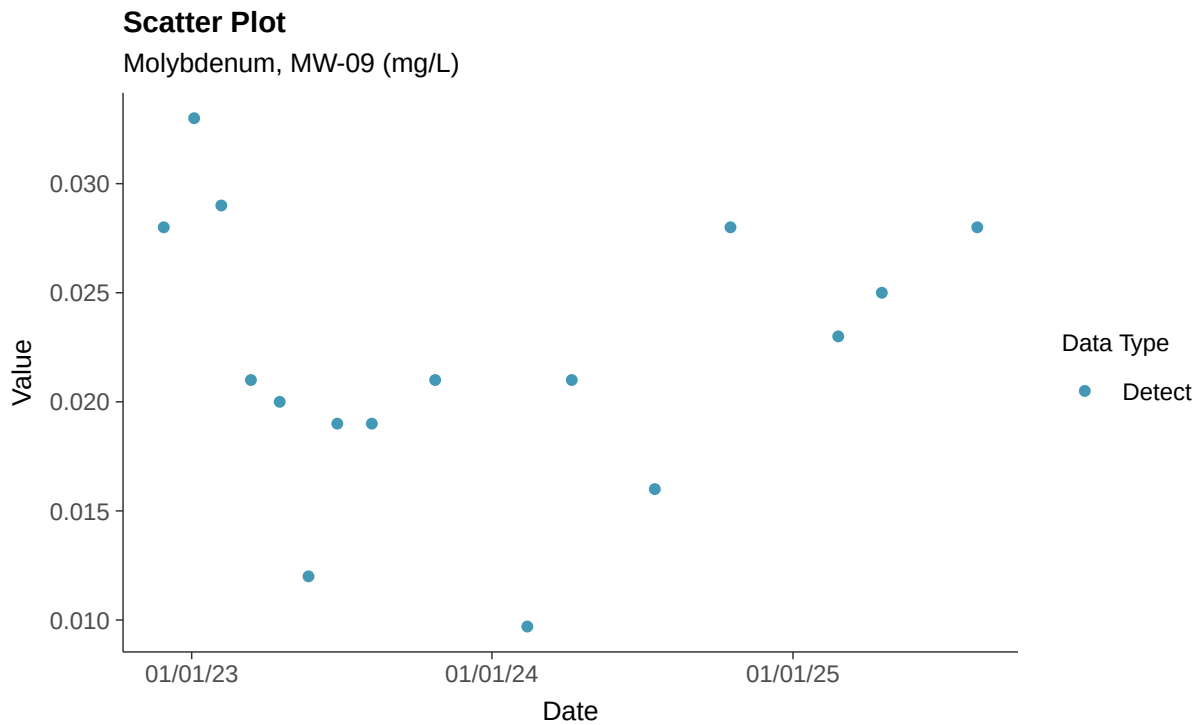


Mercury, MW-09 (ng/L)



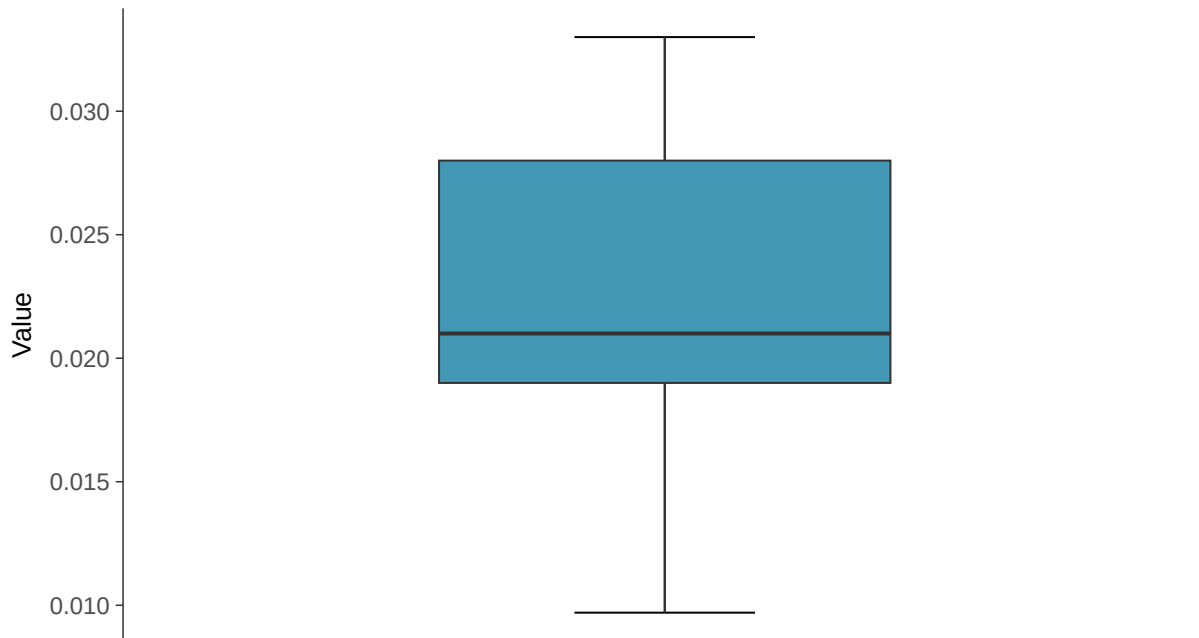
Appendix IV: Molybdenum, MW-09

ID: 19_2_4_118



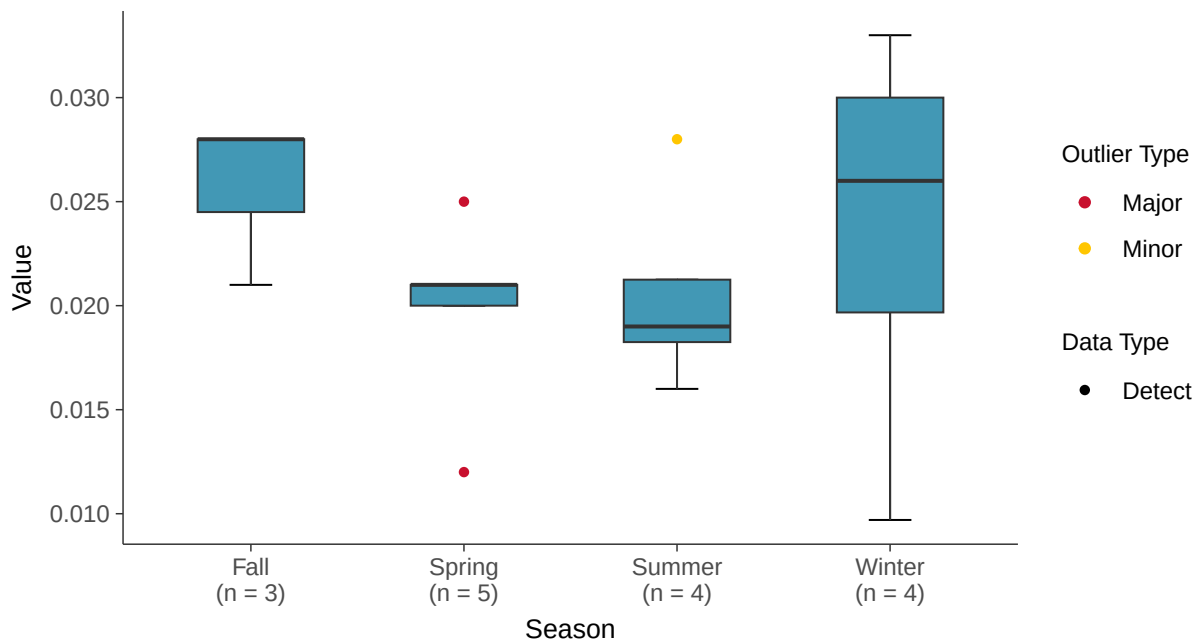
Boxplot

Molybdenum, MW-09 (mg/L)



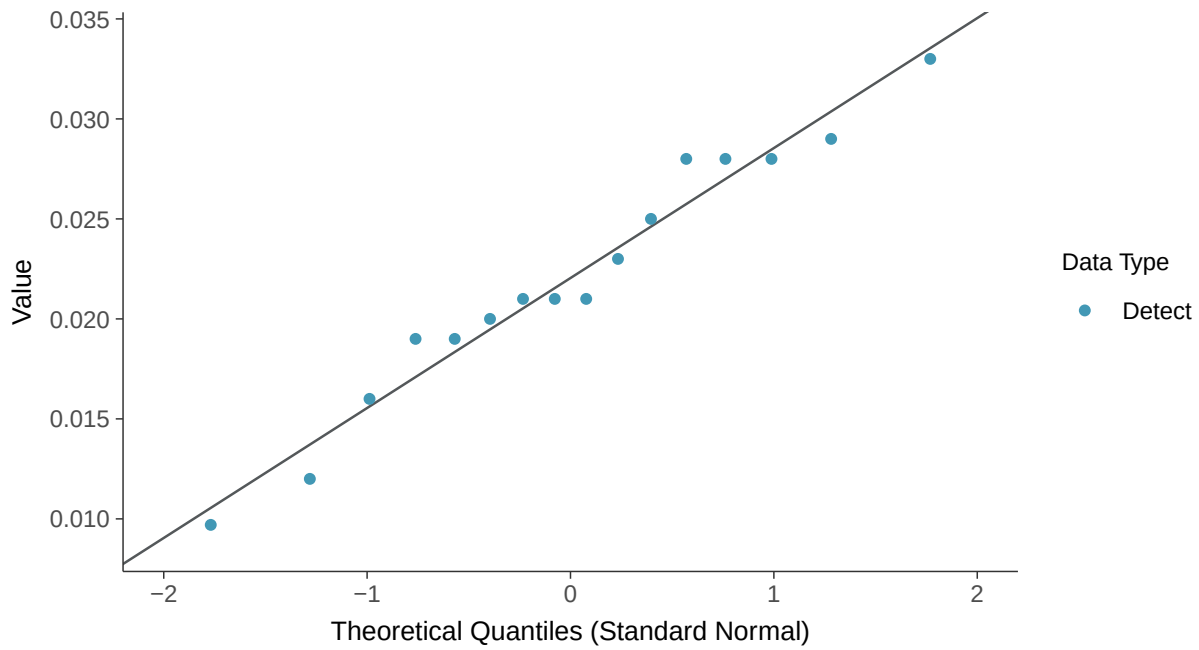
Boxplot by Season

Molybdenum, MW-09 (mg/L)



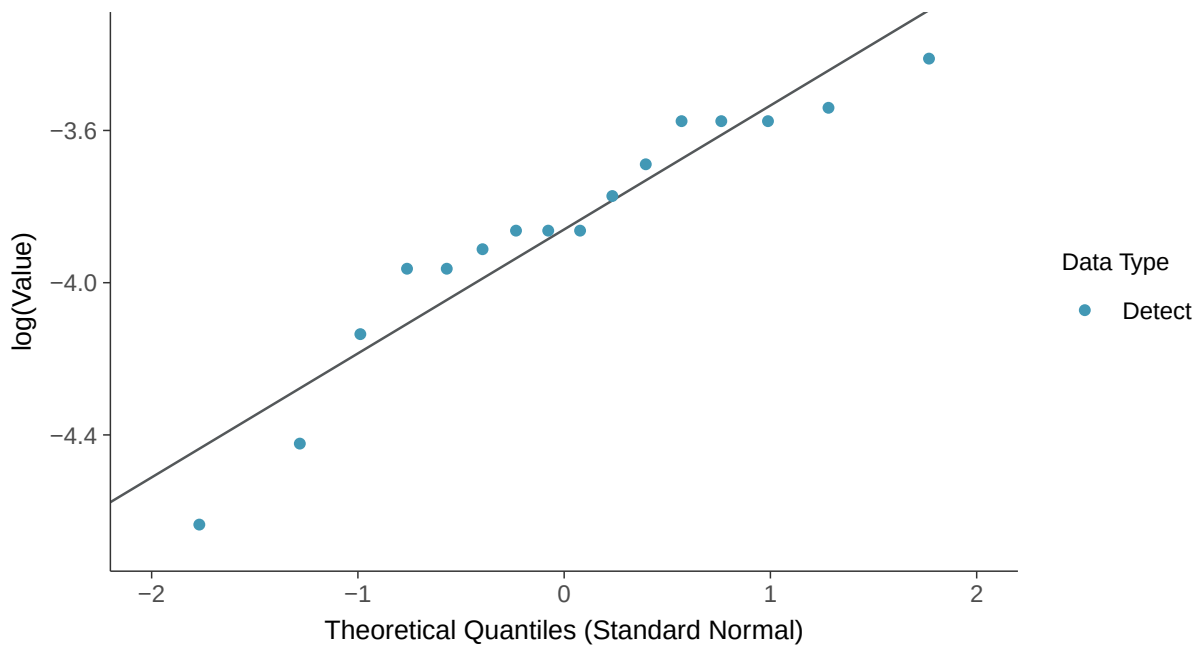
Normal Q-Q plot

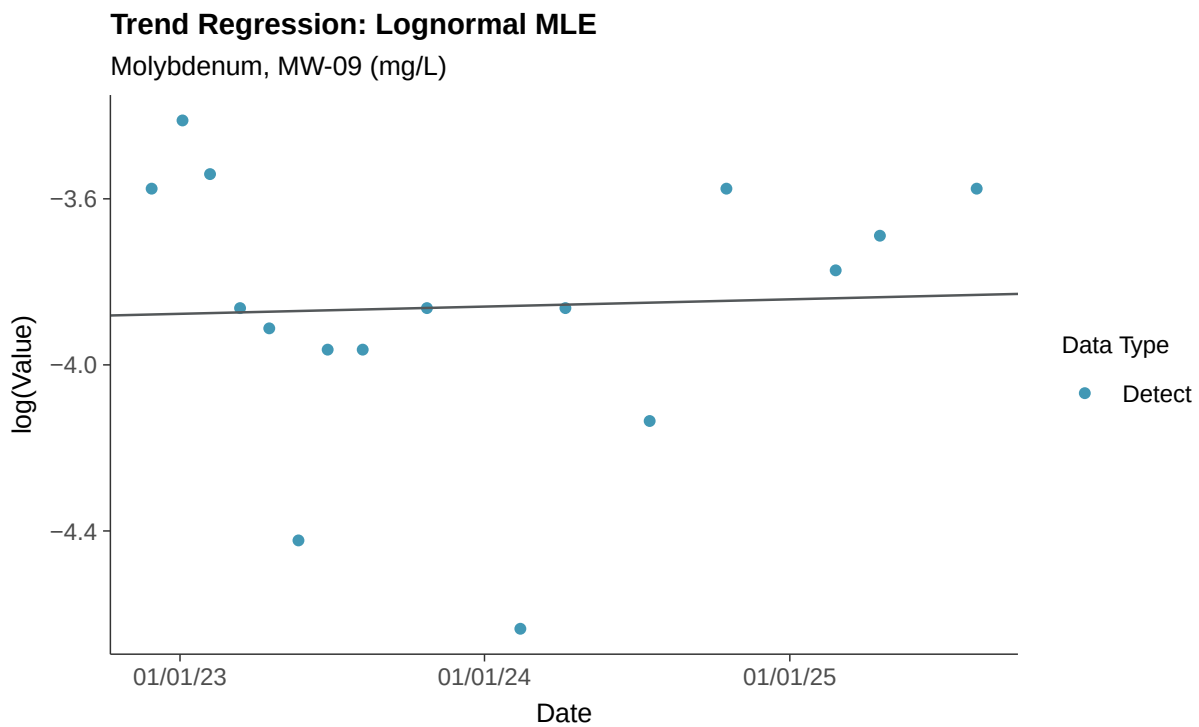
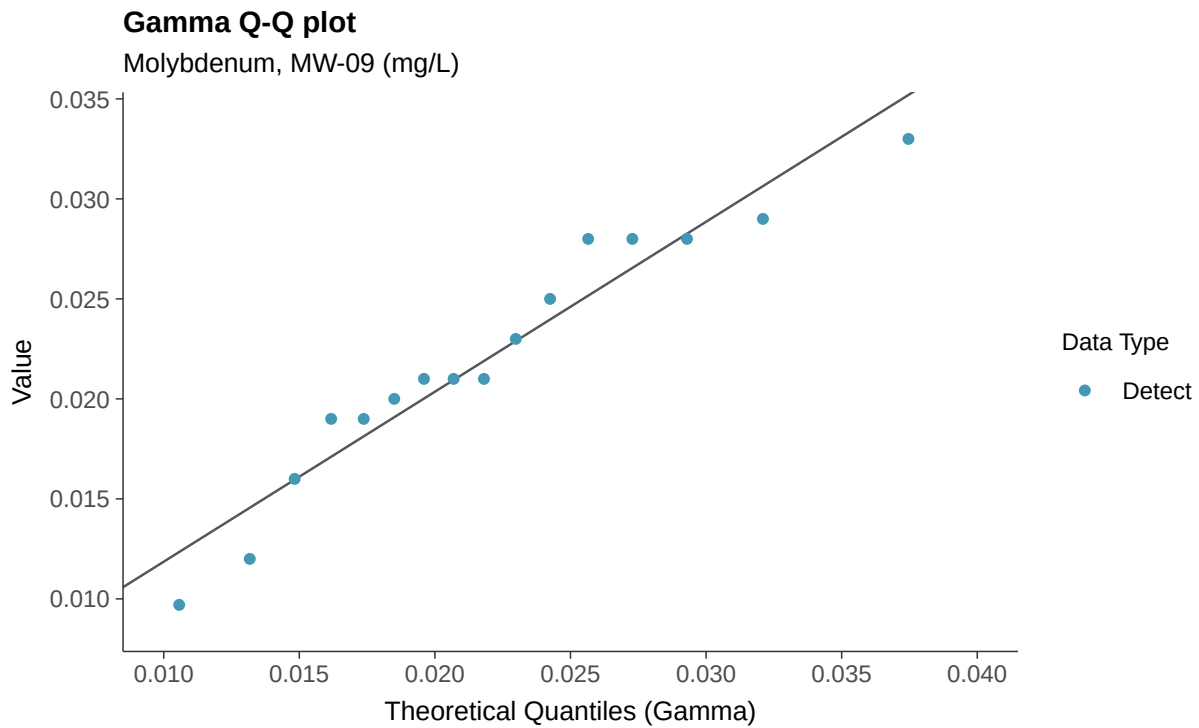
Molybdenum, MW-09 (mg/L)



Lognormal Q-Q plot

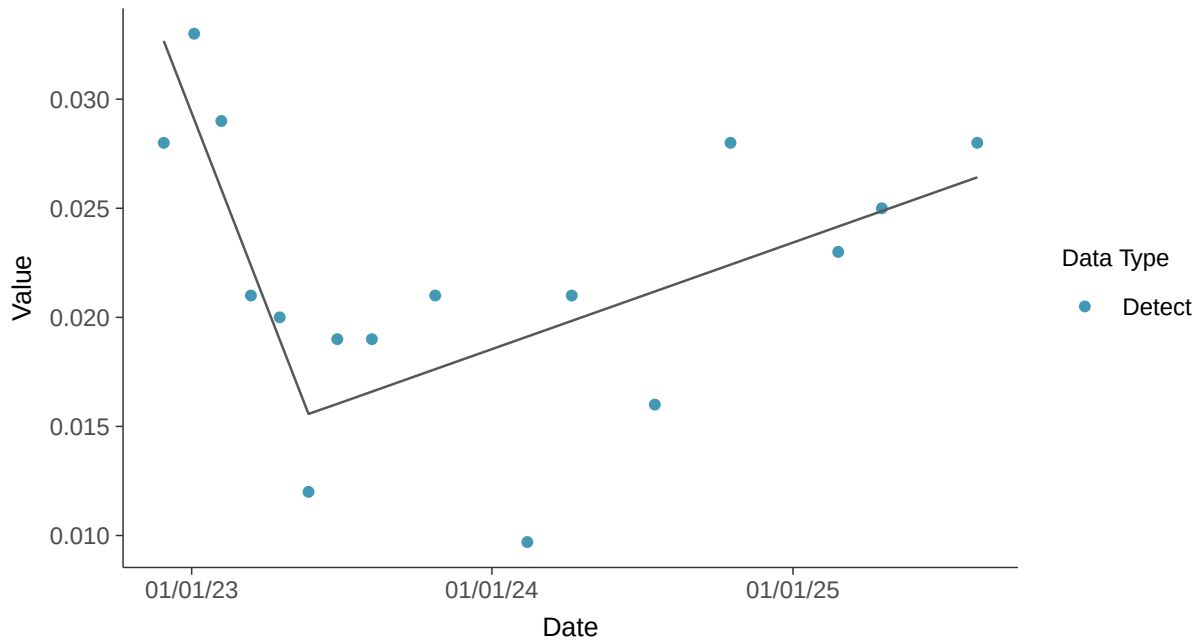
Molybdenum, MW-09 (mg/L)





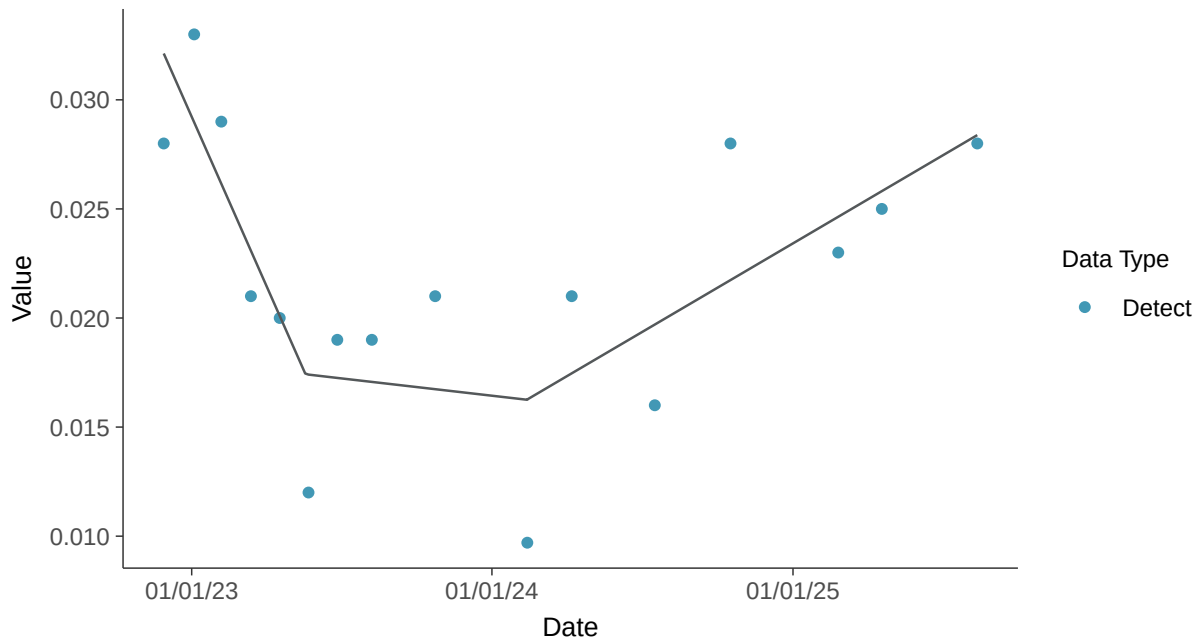
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-09 (mg/L)

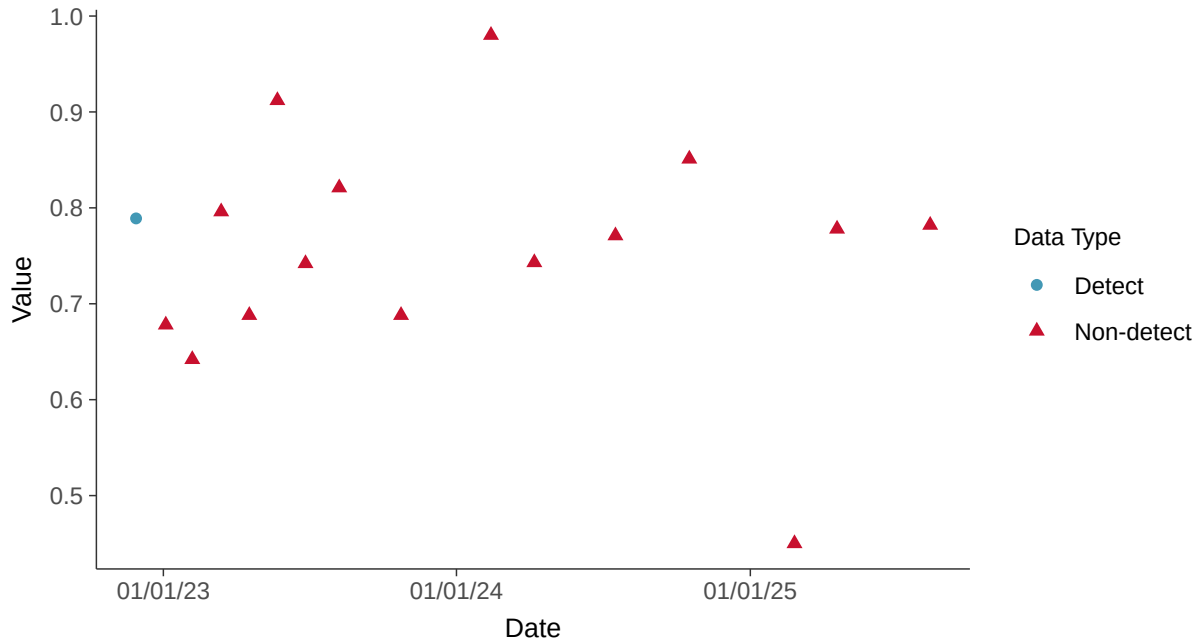


Appendix IV: Radium 226 and 228, MW-09

ID: 19_2_4_121

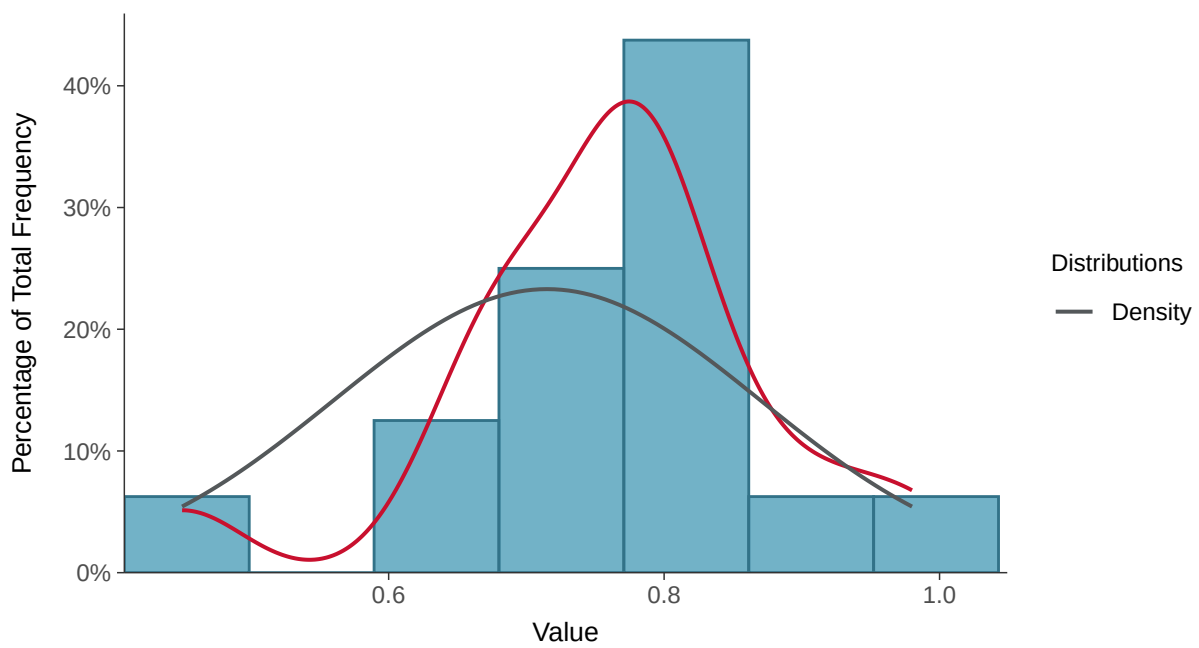
Scatter Plot

Radium 226 and 228, MW-09 (pCi/L)



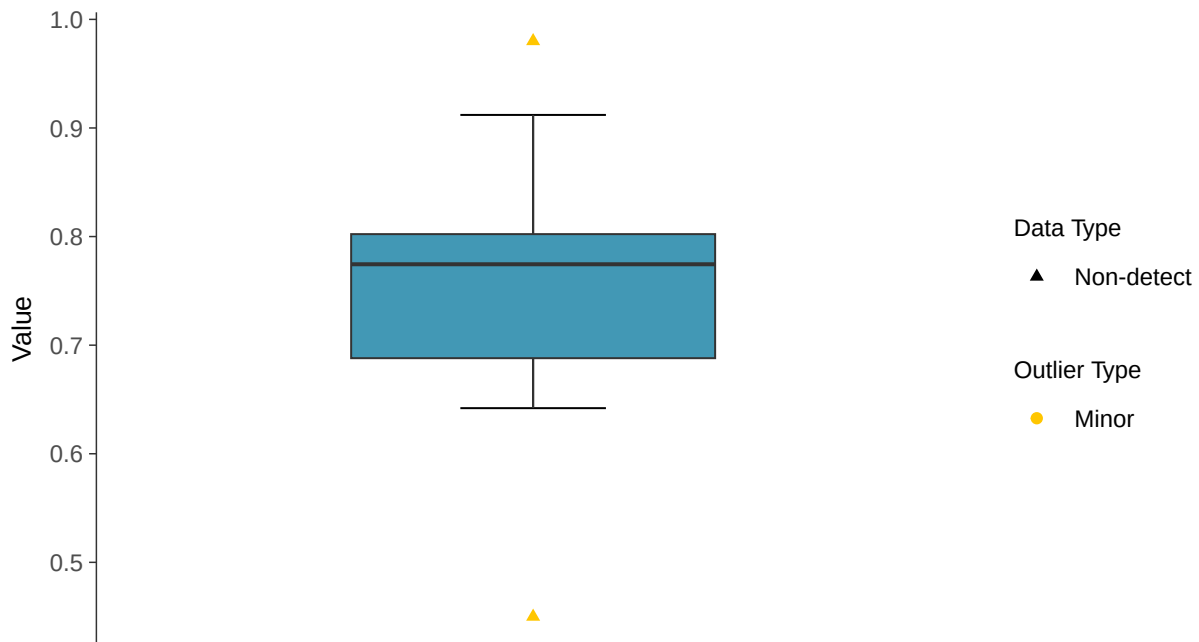
Histogram

Radium 226 and 228, MW-09 (pCi/L)



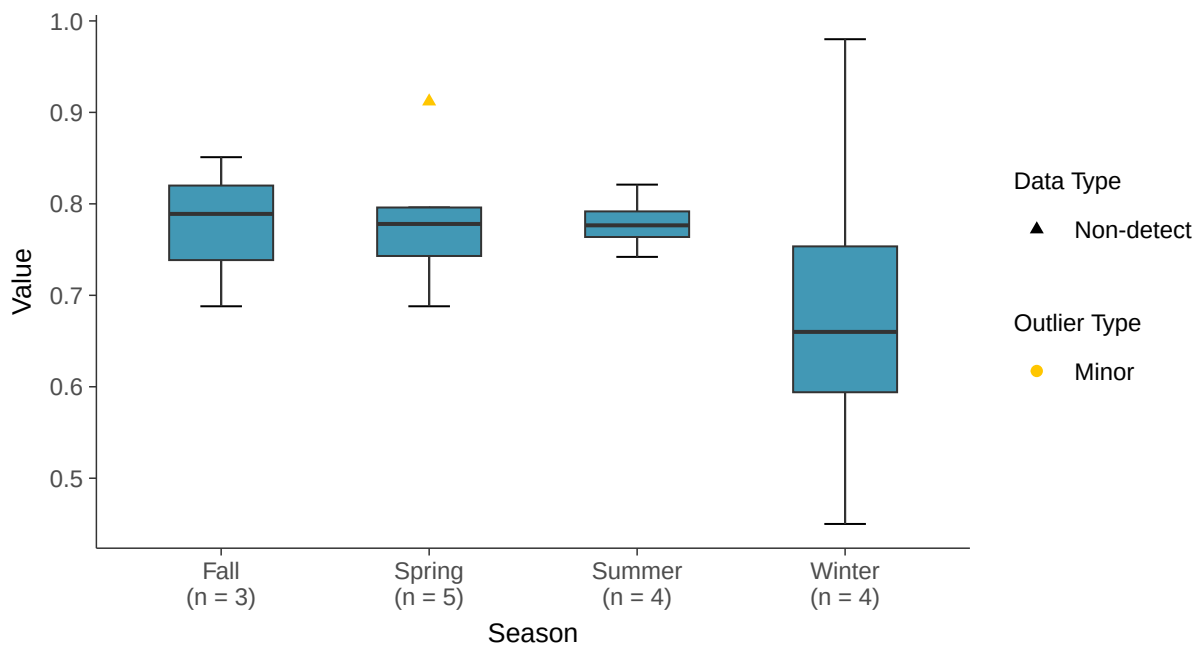
Boxplot

Radium 226 and 228, MW-09 (pCi/L)



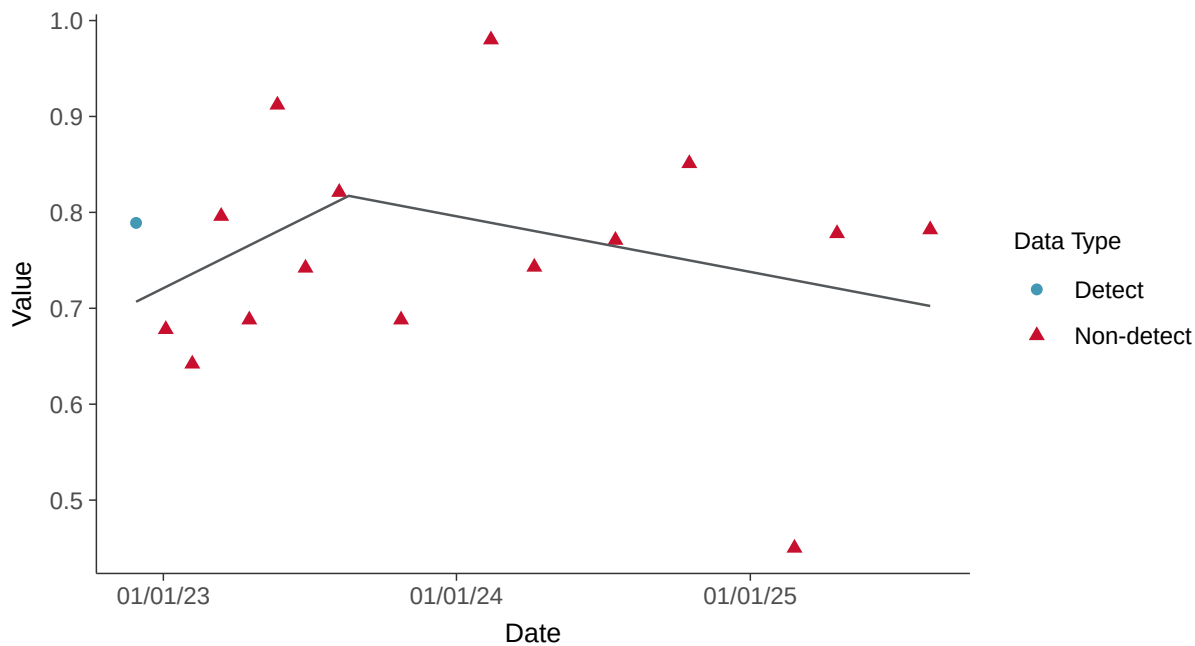
Boxplot by Season

Radium 226 and 228, MW-09 (pCi/L)



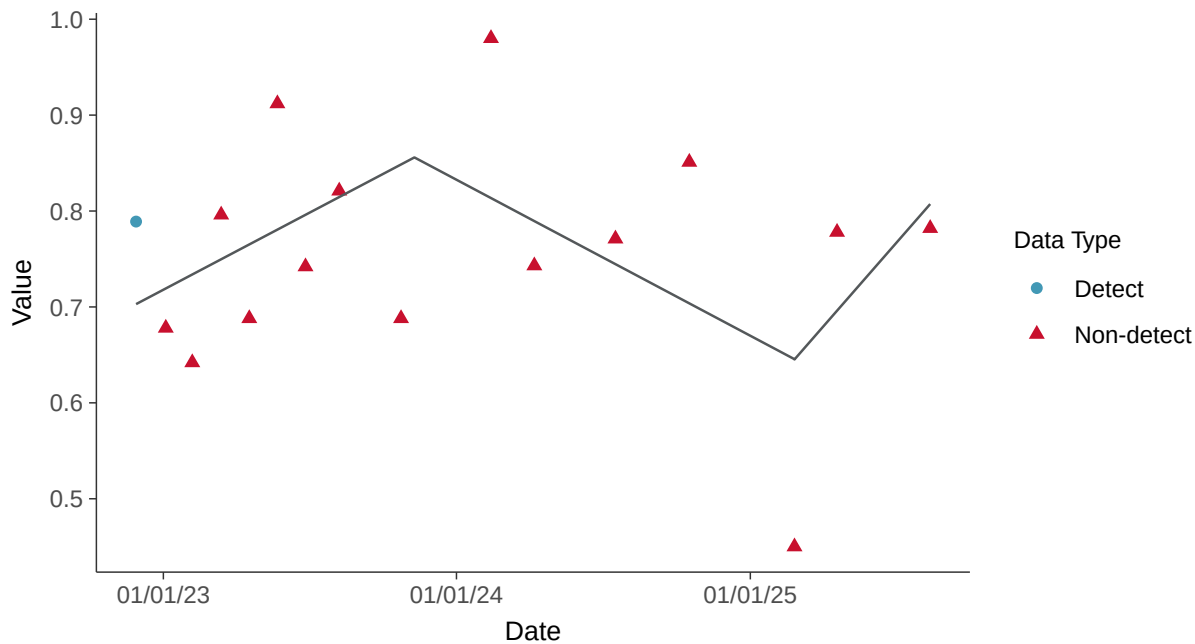
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-09 (pCi/L)



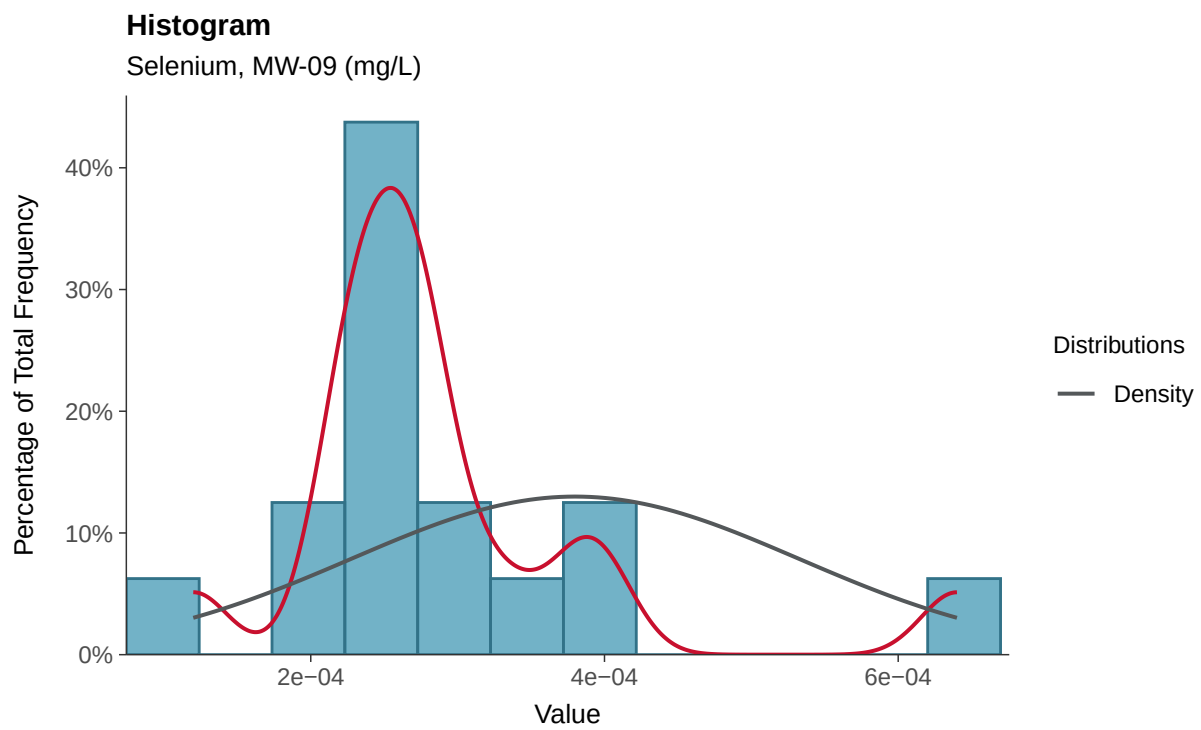
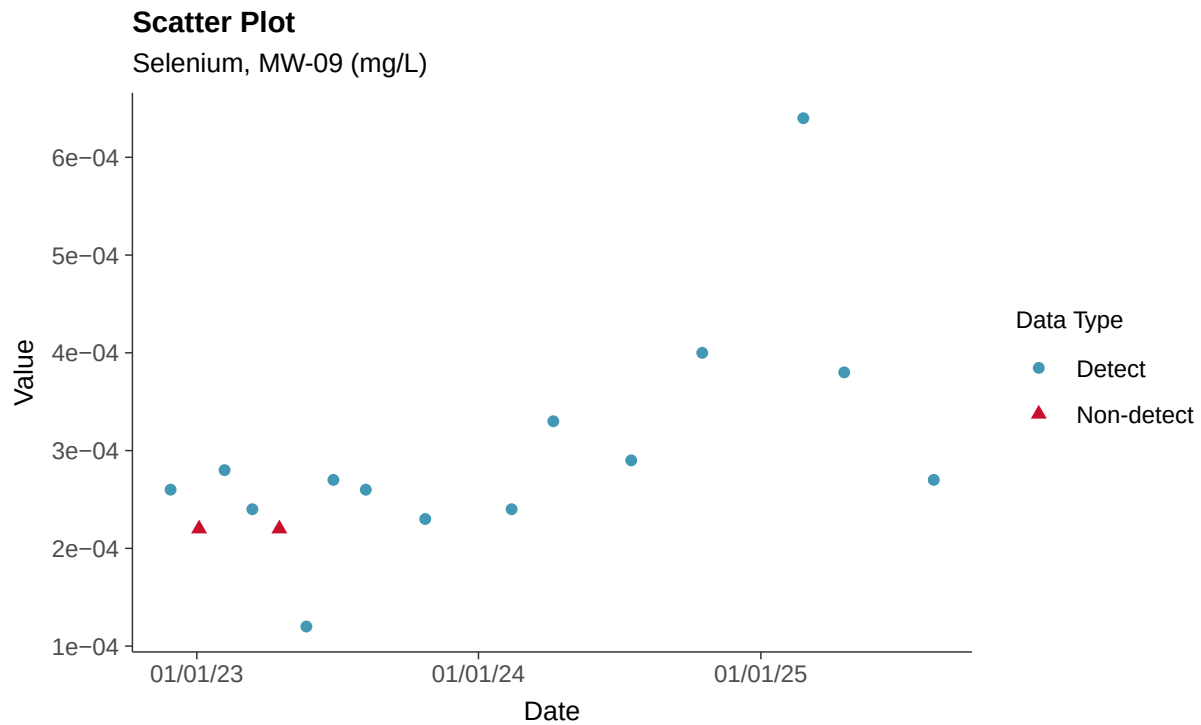
Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-09 (pCi/L)



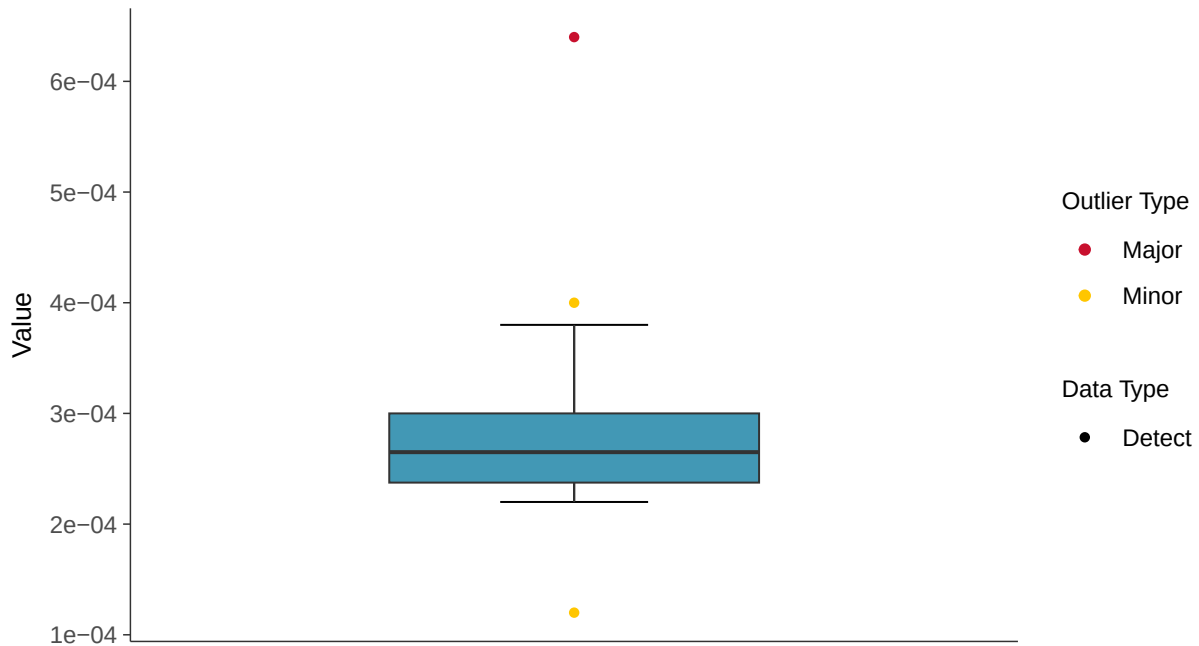
Appendix IV: Selenium, MW-09

ID: 19_2_4_122



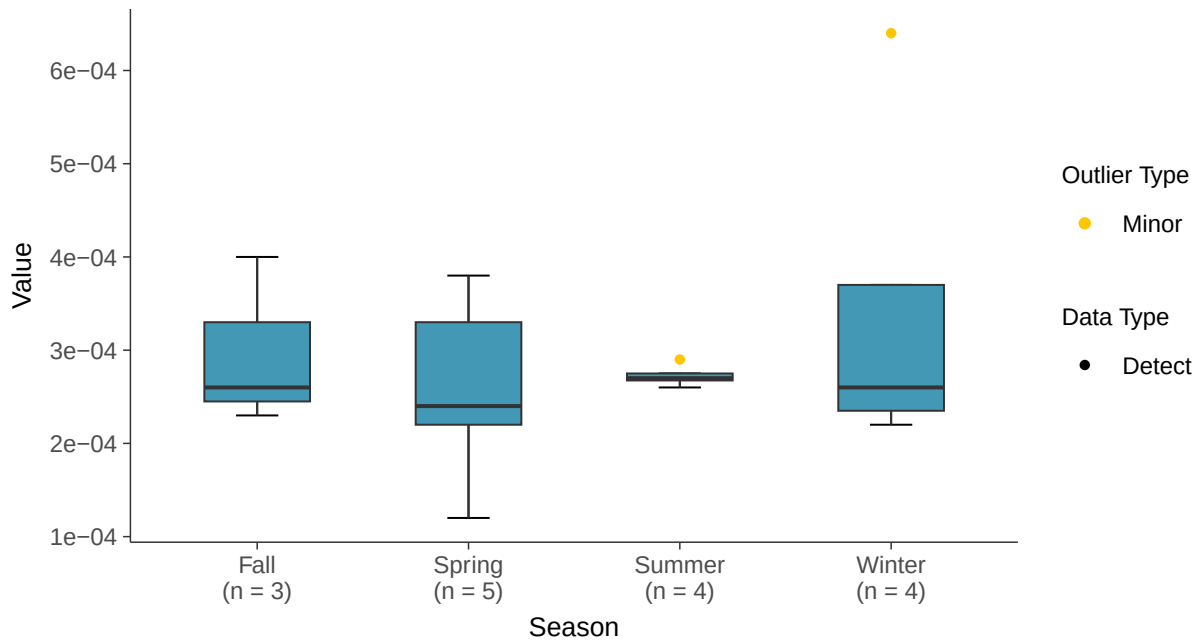
Boxplot

Selenium, MW-09 (mg/L)



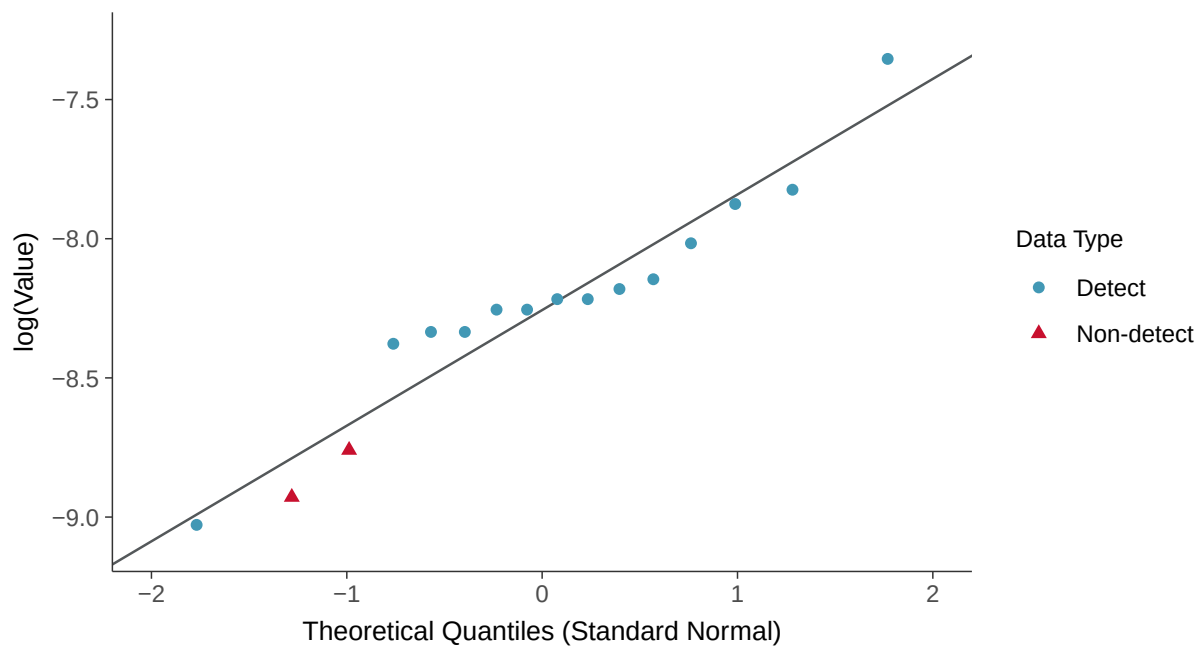
Boxplot by Season

Selenium, MW-09 (mg/L)



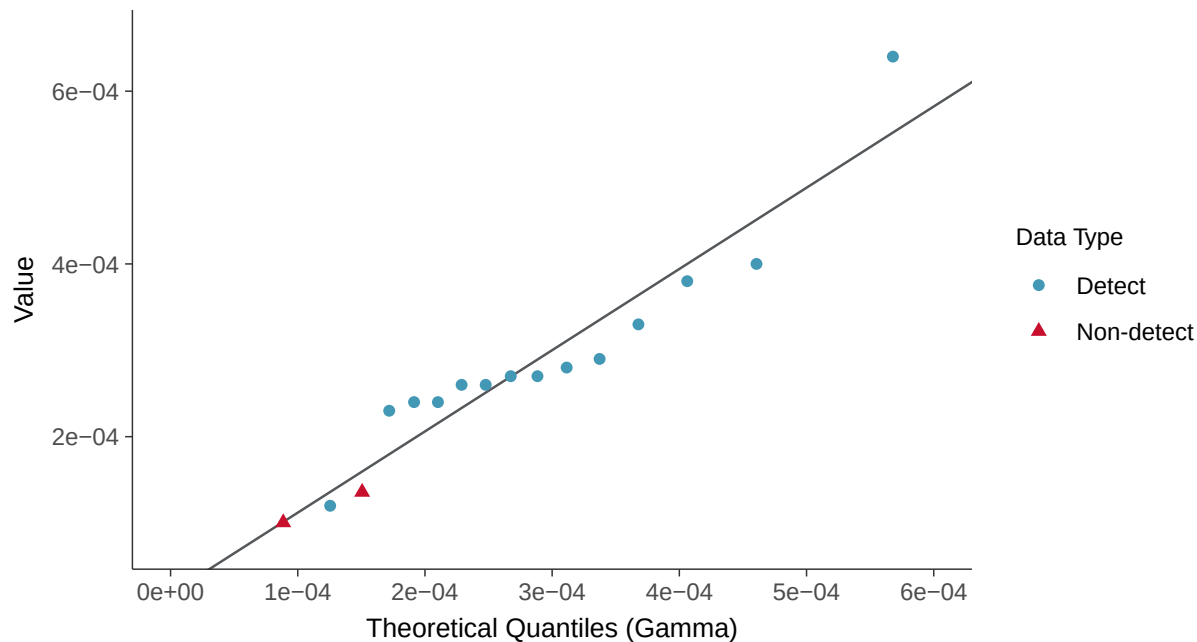
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-09 (mg/L)



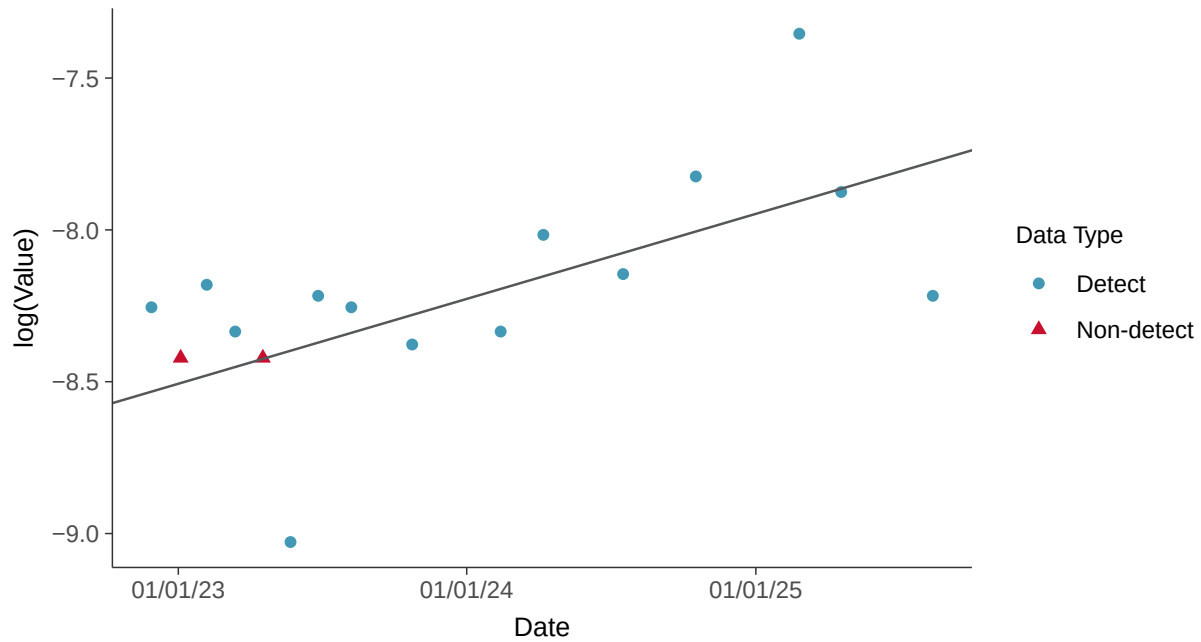
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-09 (mg/L)



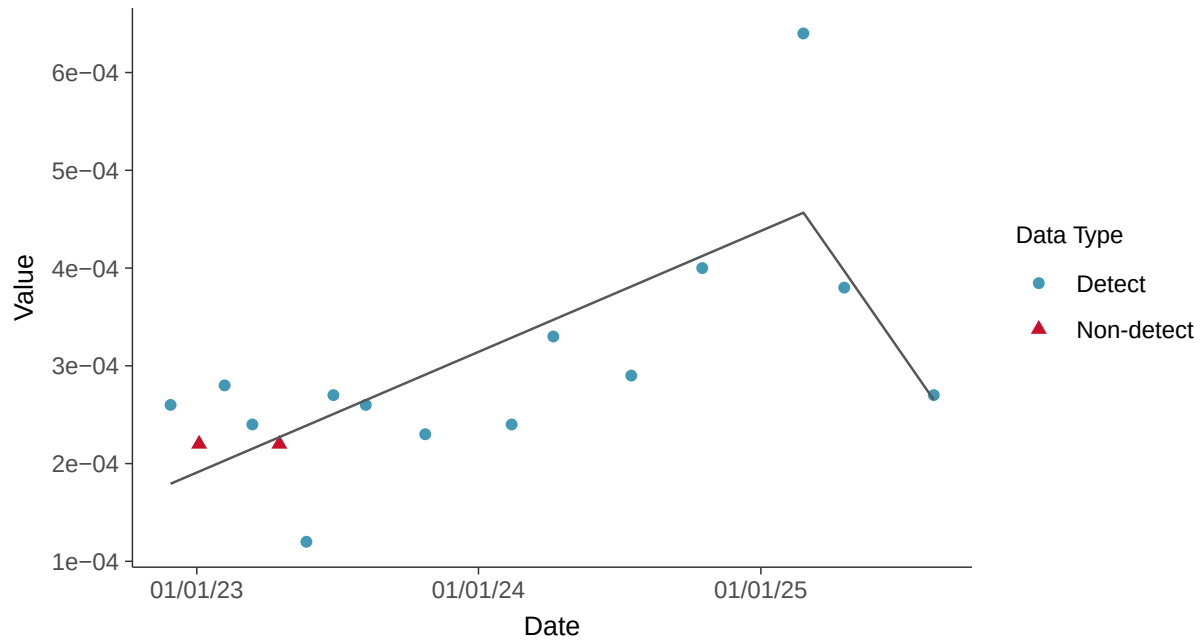
Trend Regression: Lognormal MLE

Selenium, MW-09 (mg/L)



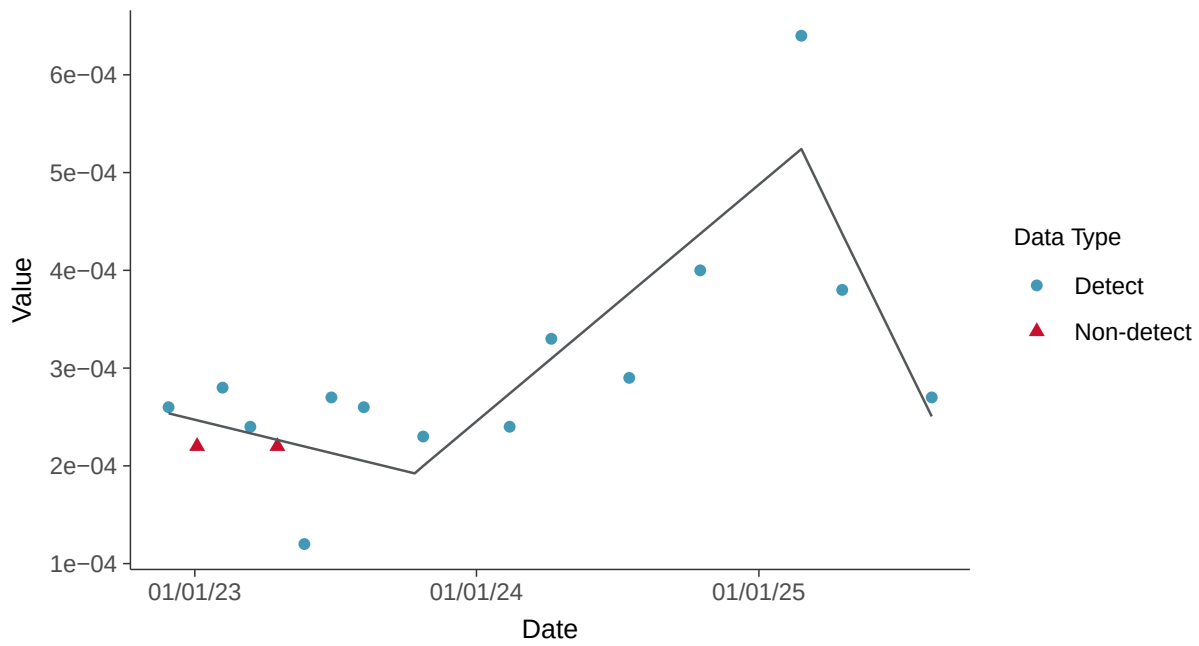
Trend Regression: Piecewise Linear-Linear

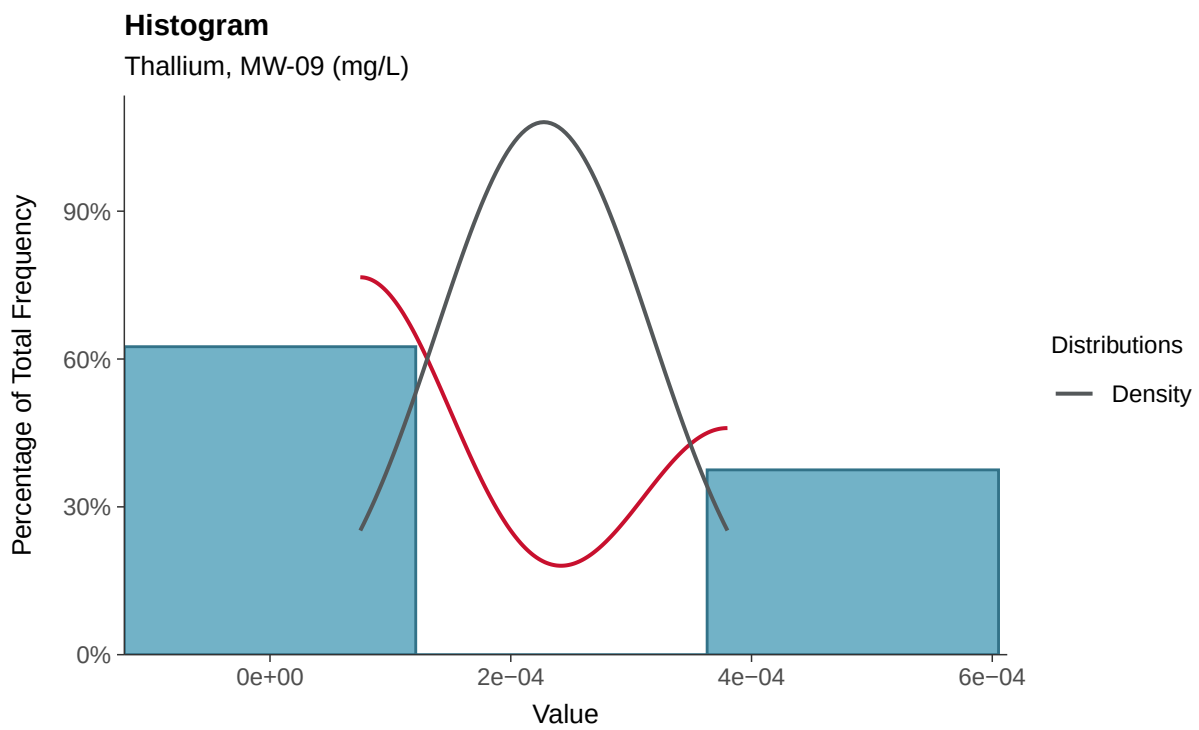
Selenium, MW-09 (mg/L)





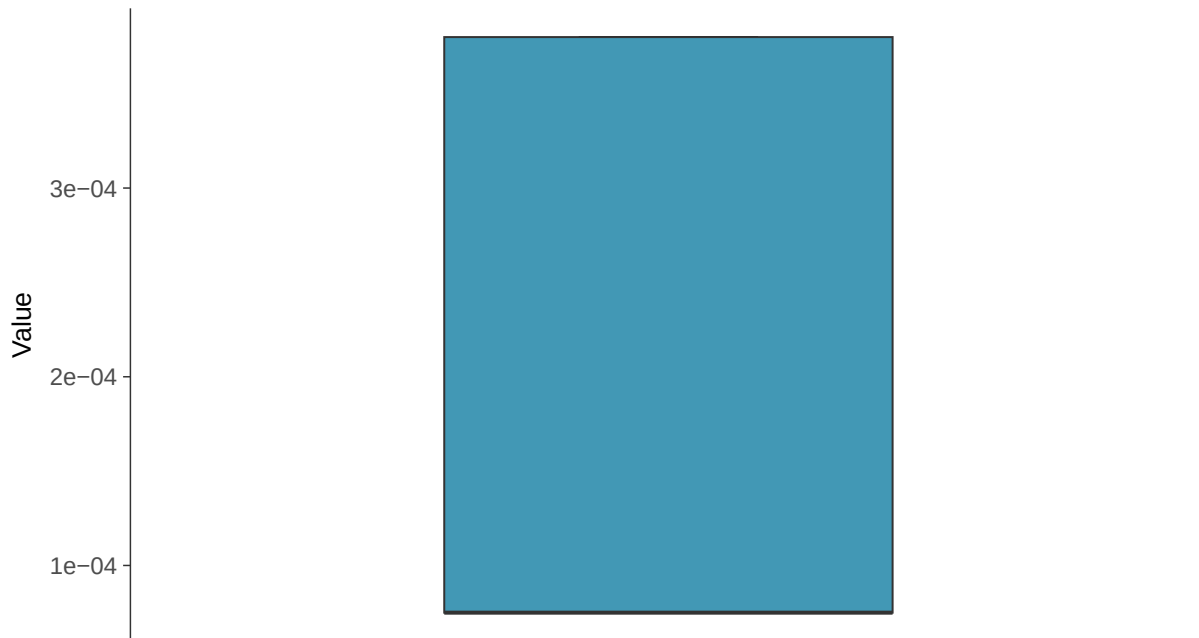
Trend Regression: Piecewise Linear-Linear-Linear
Selenium, MW-09 (mg/L)





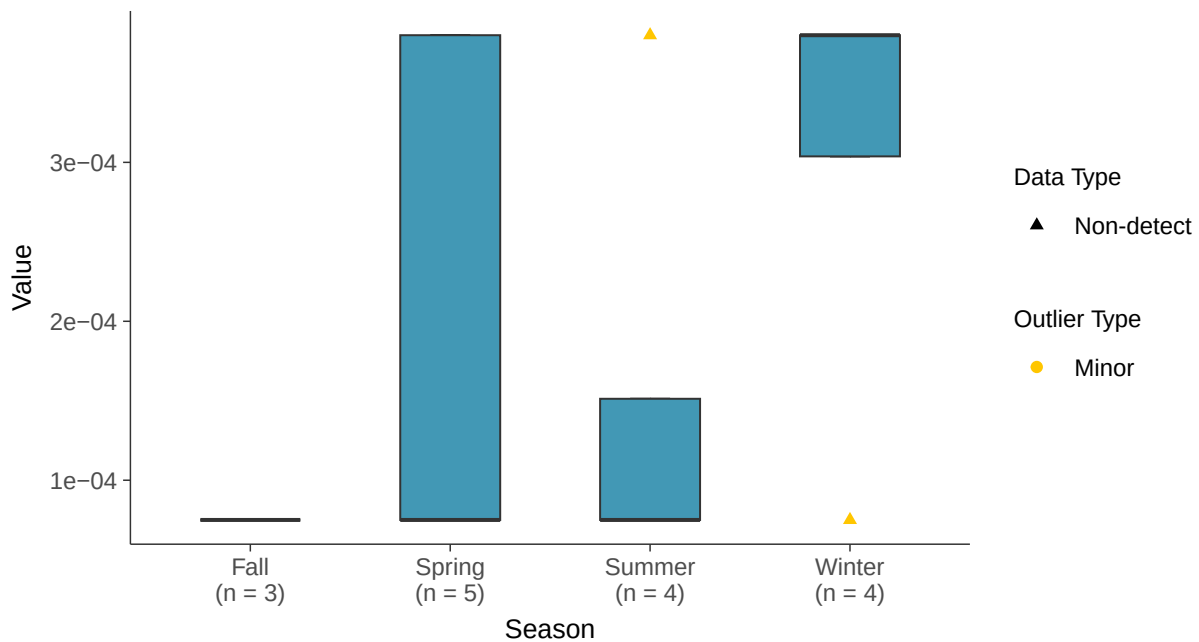
Boxplot

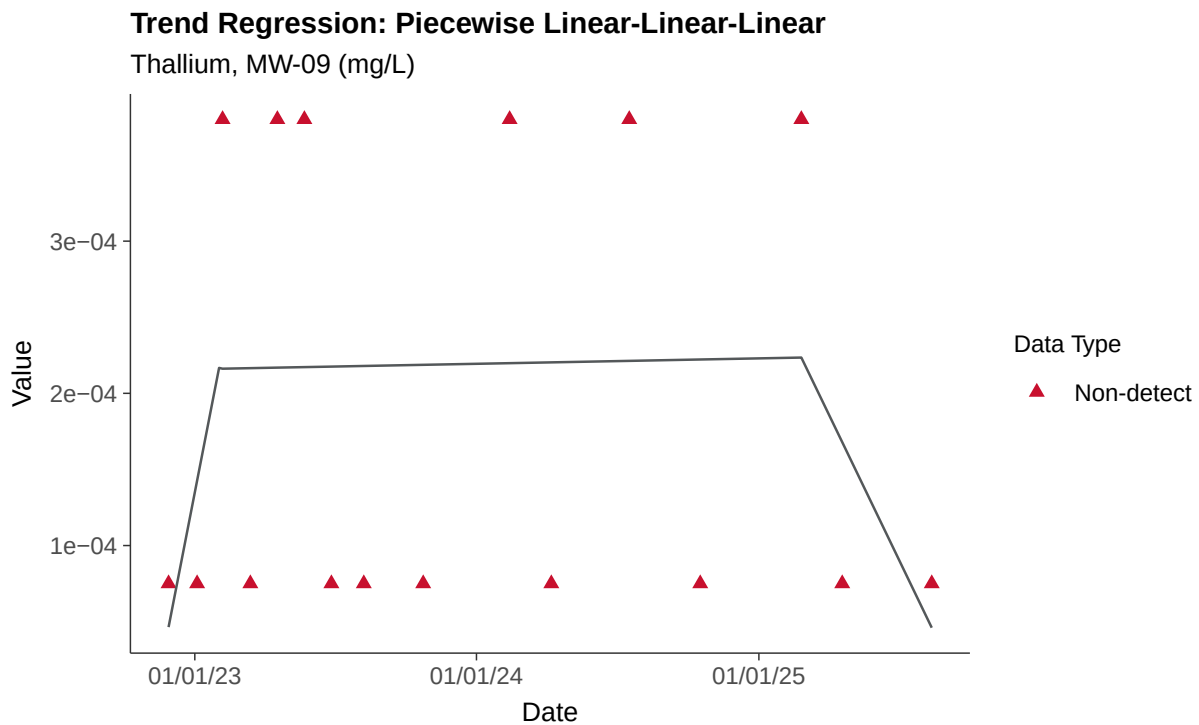
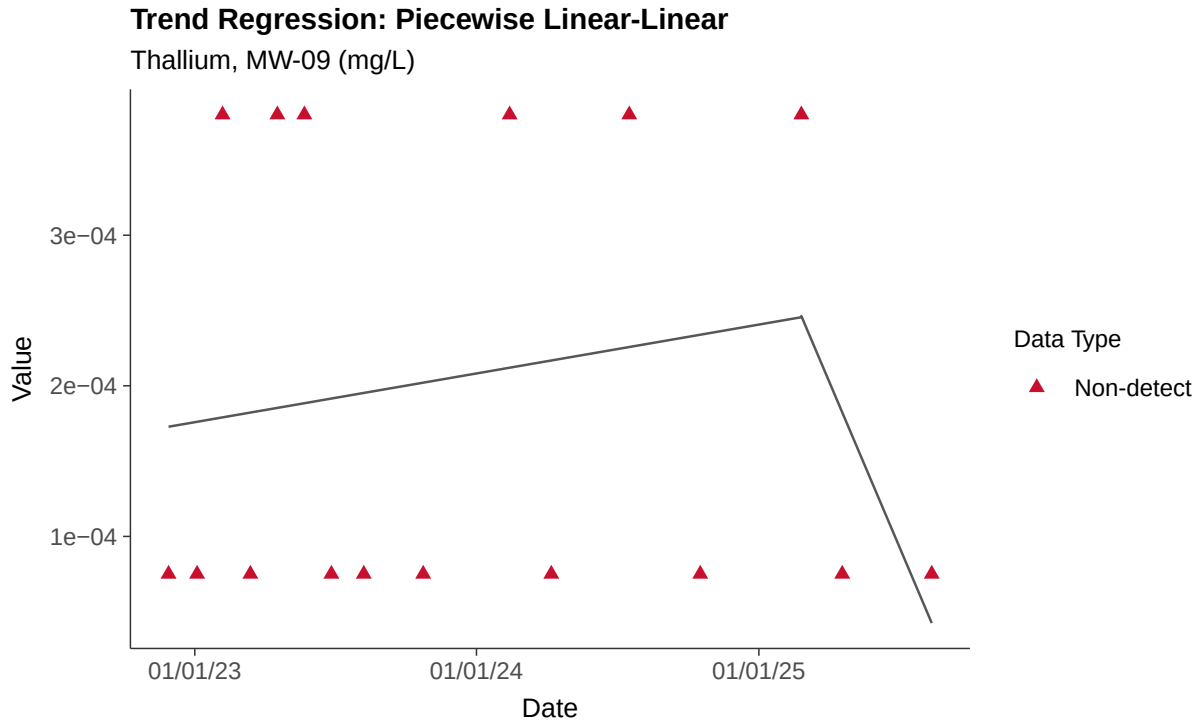
Thallium, MW-09 (mg/L)



Boxplot by Season

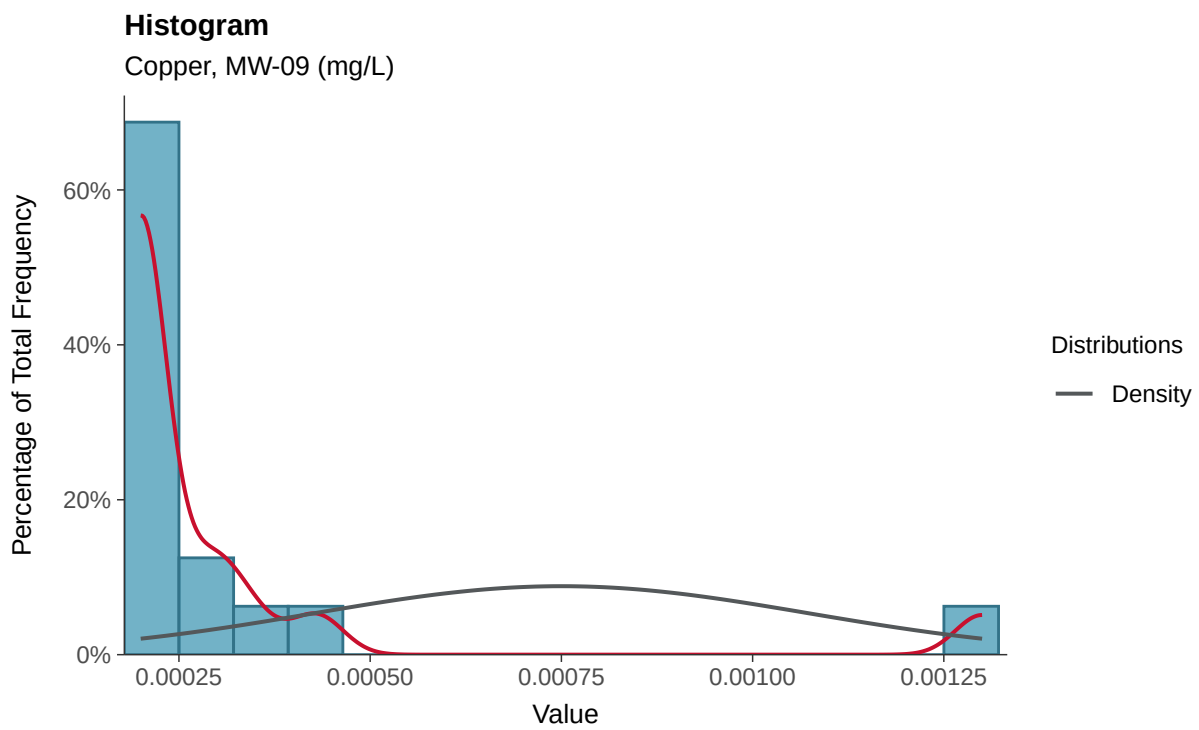
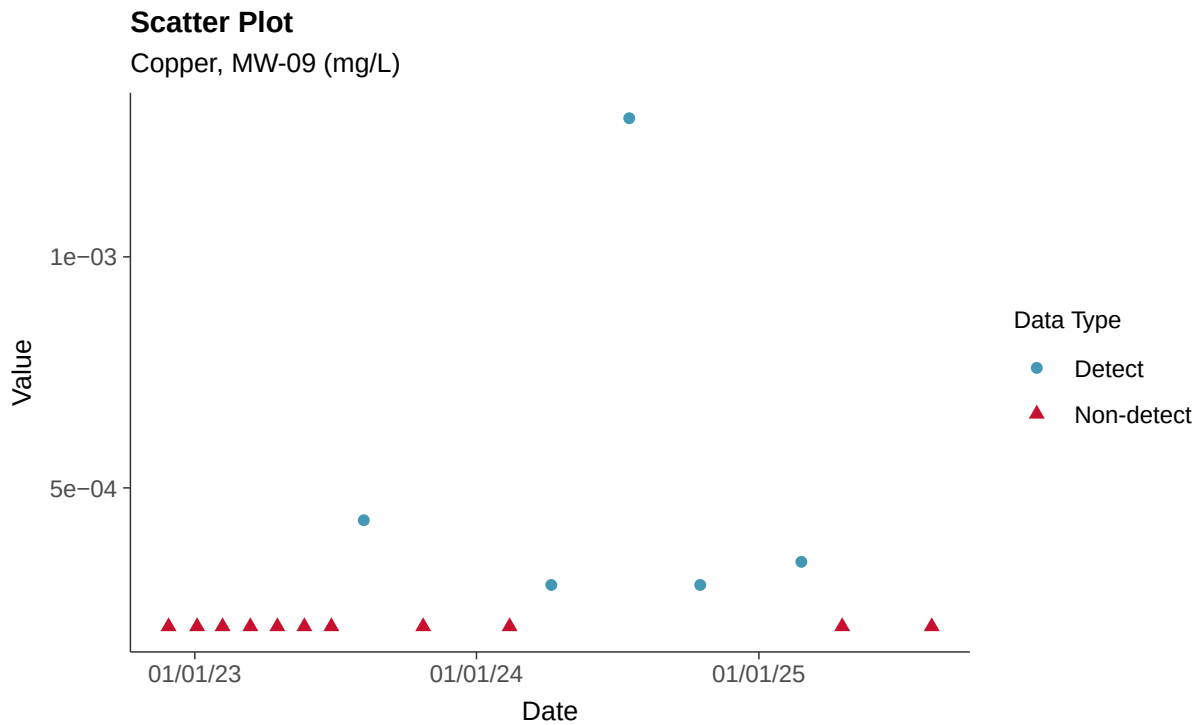
Thallium, MW-09 (mg/L)





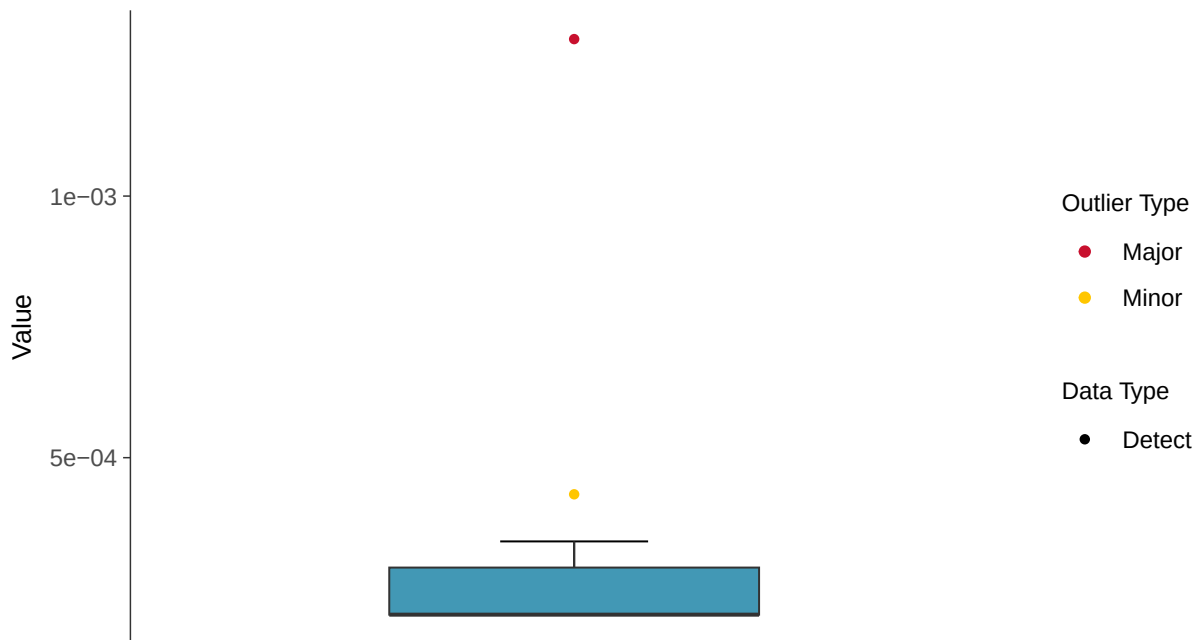
Part 115: Copper, MW-09

ID: 19_2_5_111



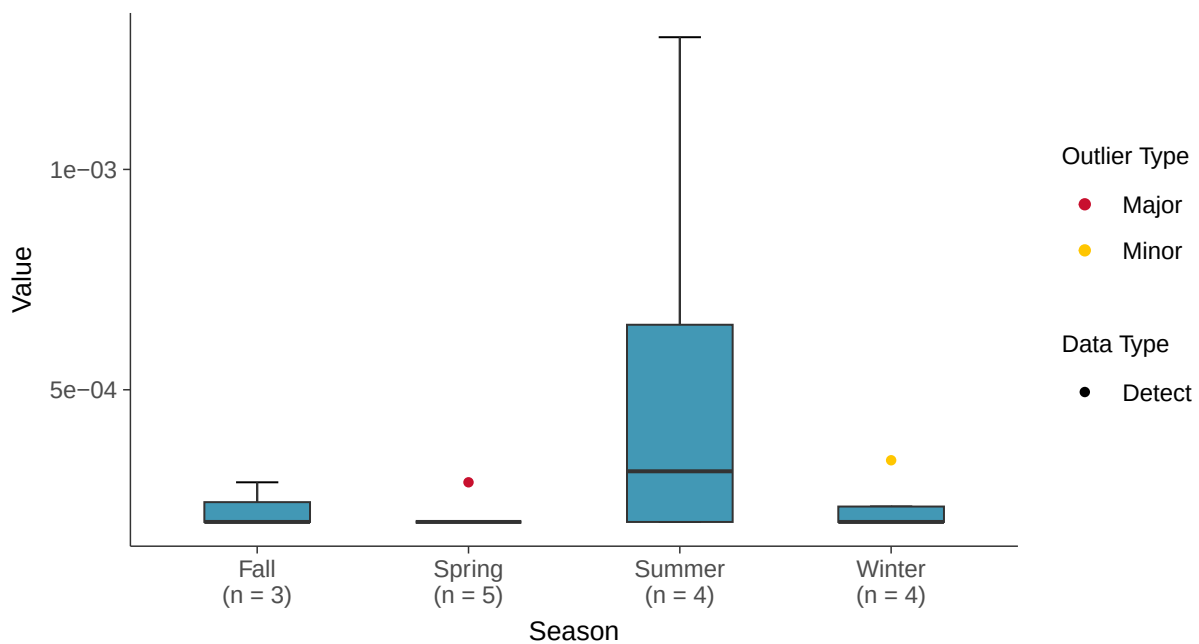
Boxplot

Copper, MW-09 (mg/L)



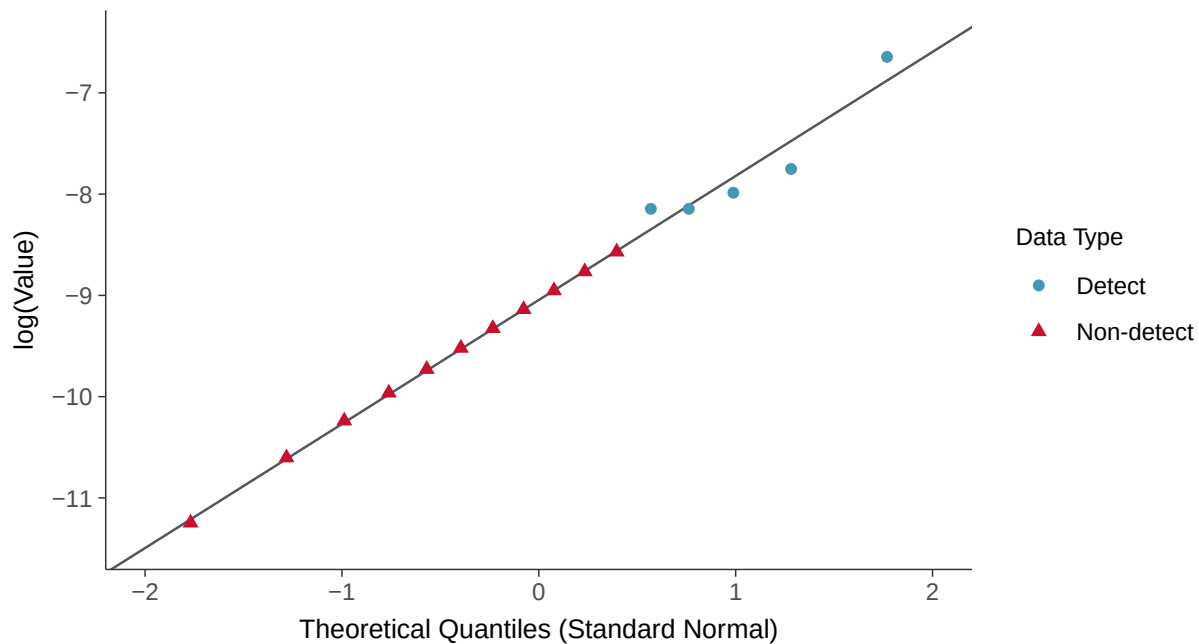
Boxplot by Season

Copper, MW-09 (mg/L)



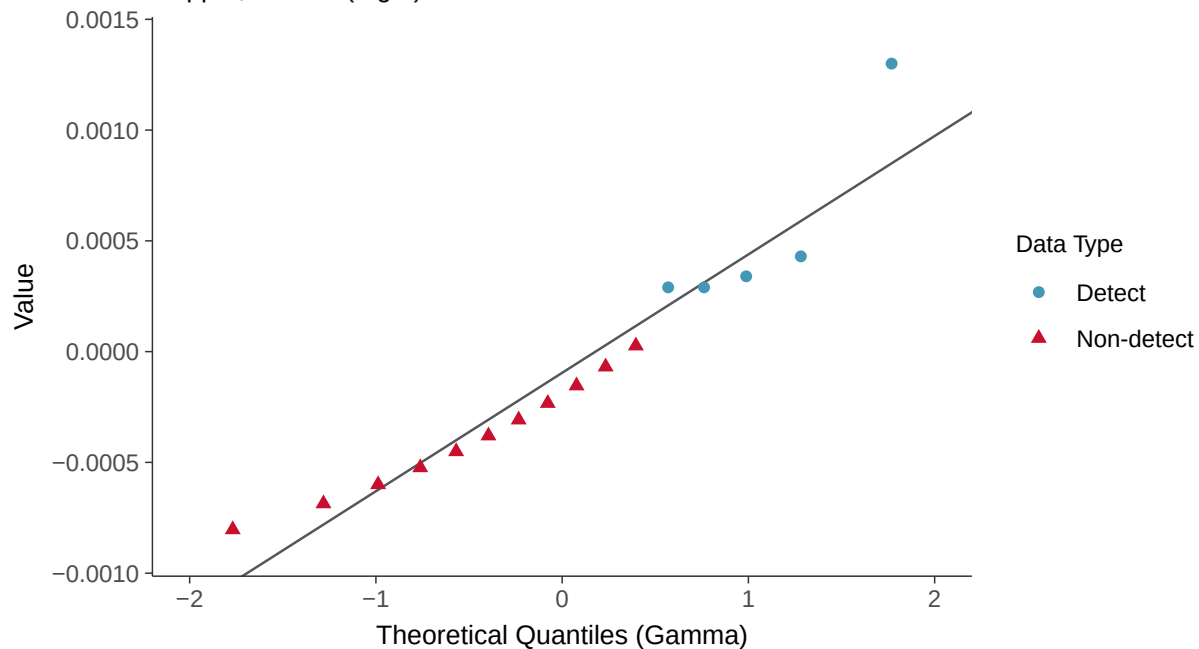
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-09 (mg/L)



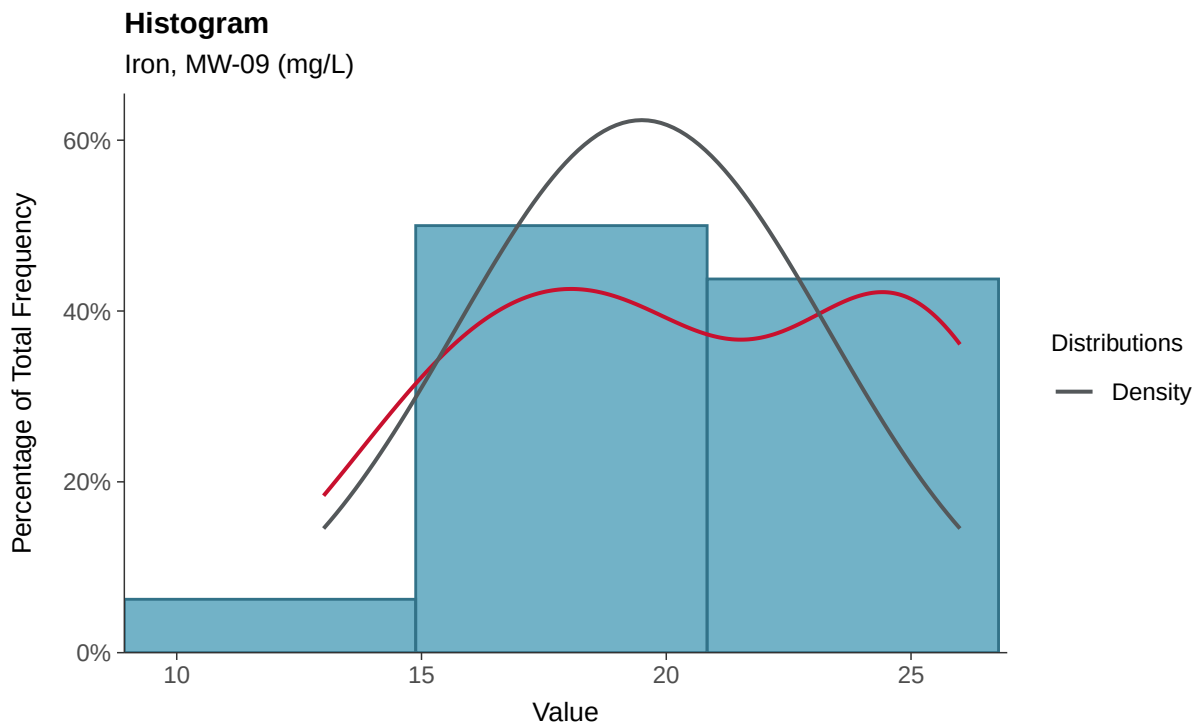
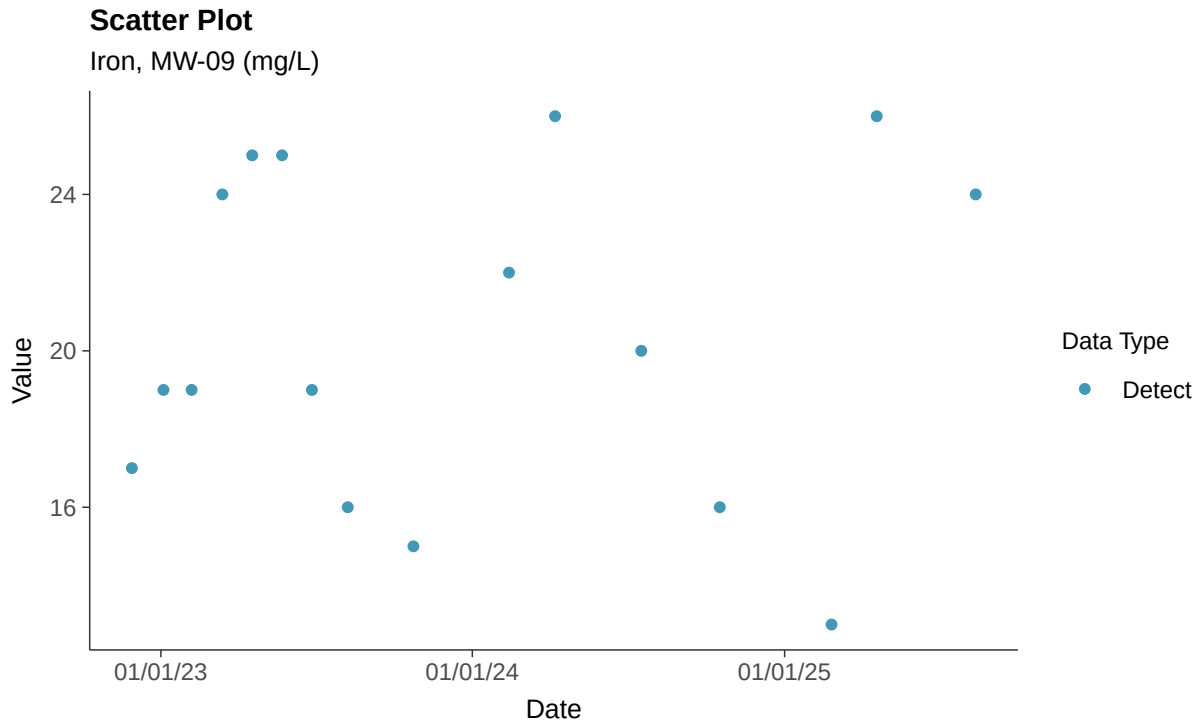
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-09 (mg/L)



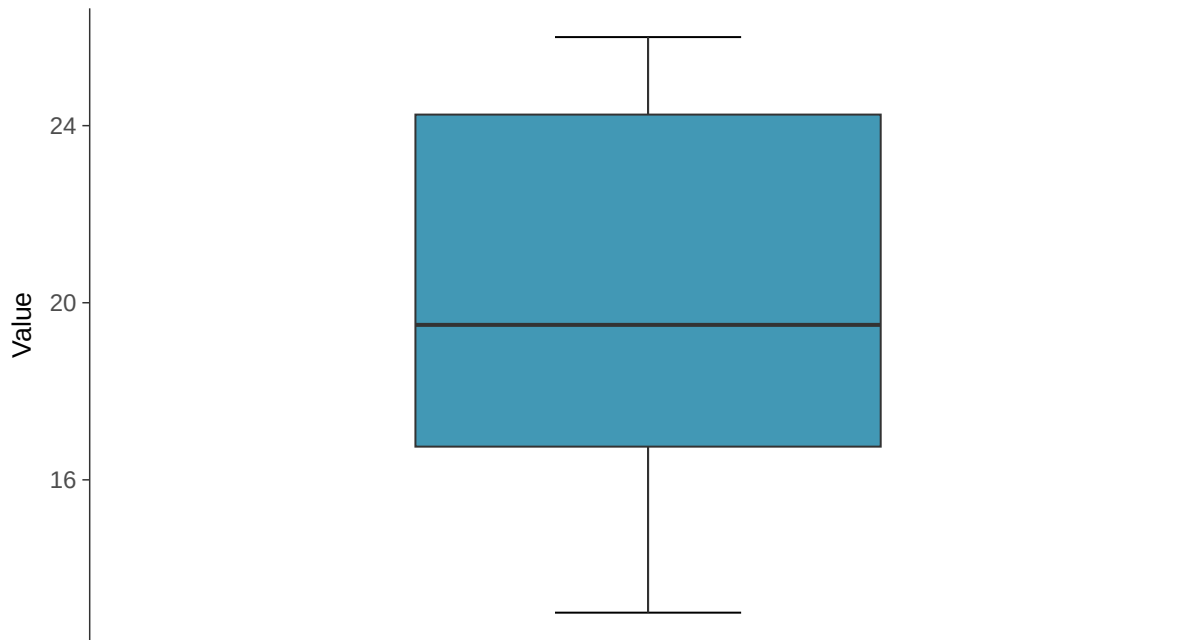
Part 115: Iron, MW-09

ID: 19_2_5_114



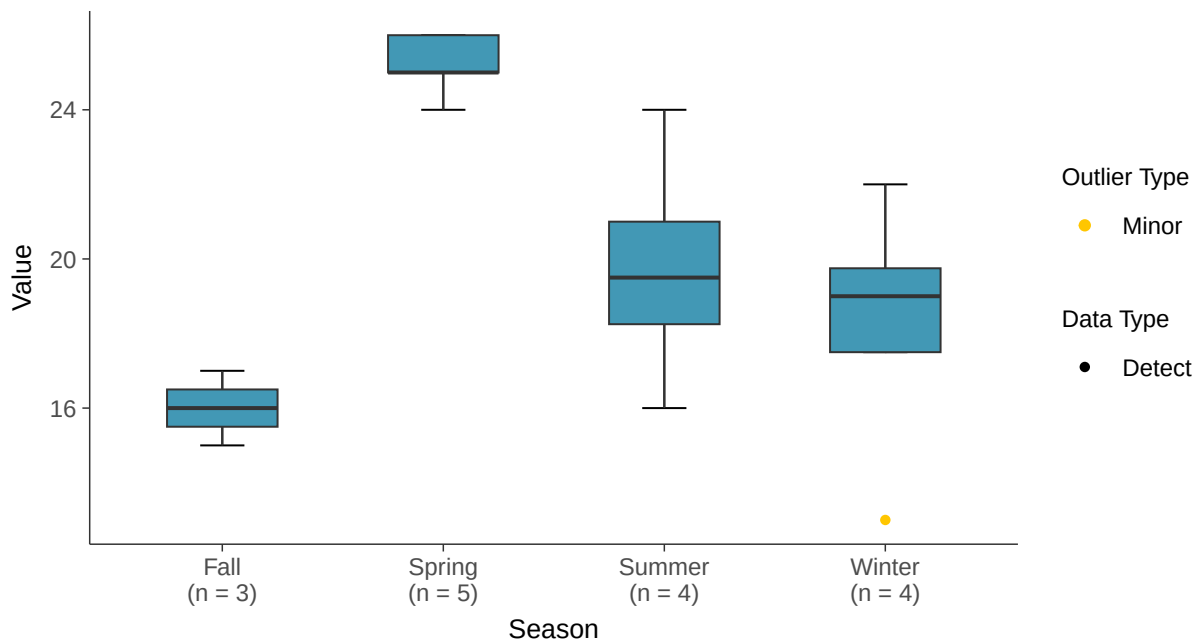
Boxplot

Iron, MW-09 (mg/L)



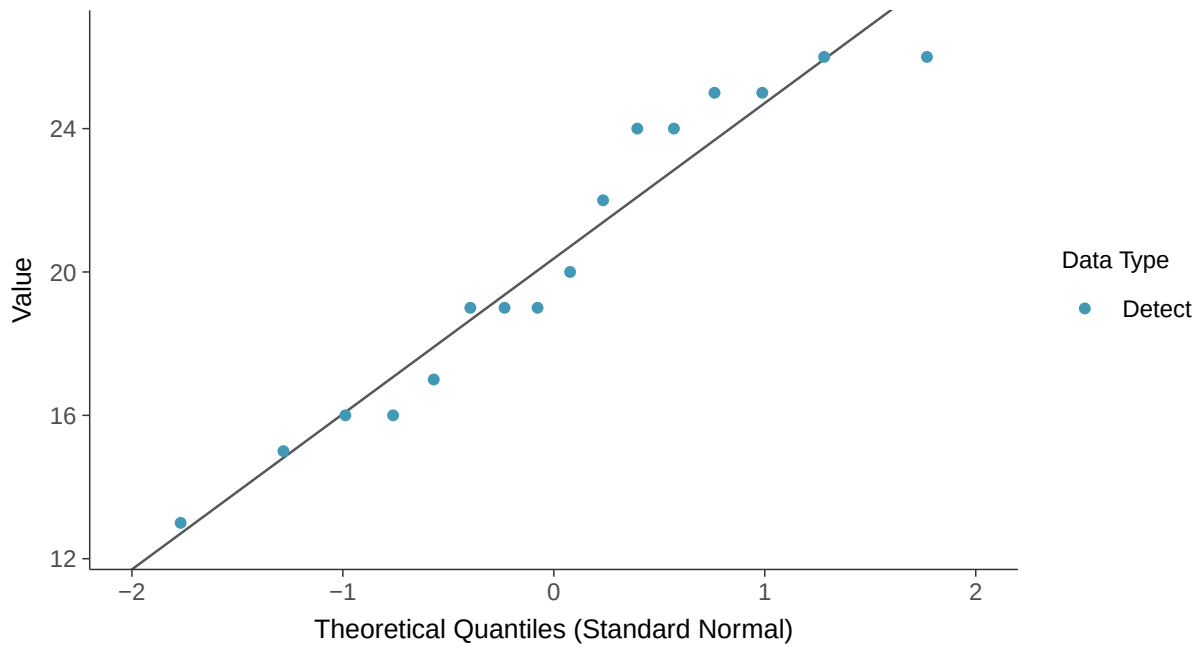
Boxplot by Season

Iron, MW-09 (mg/L)



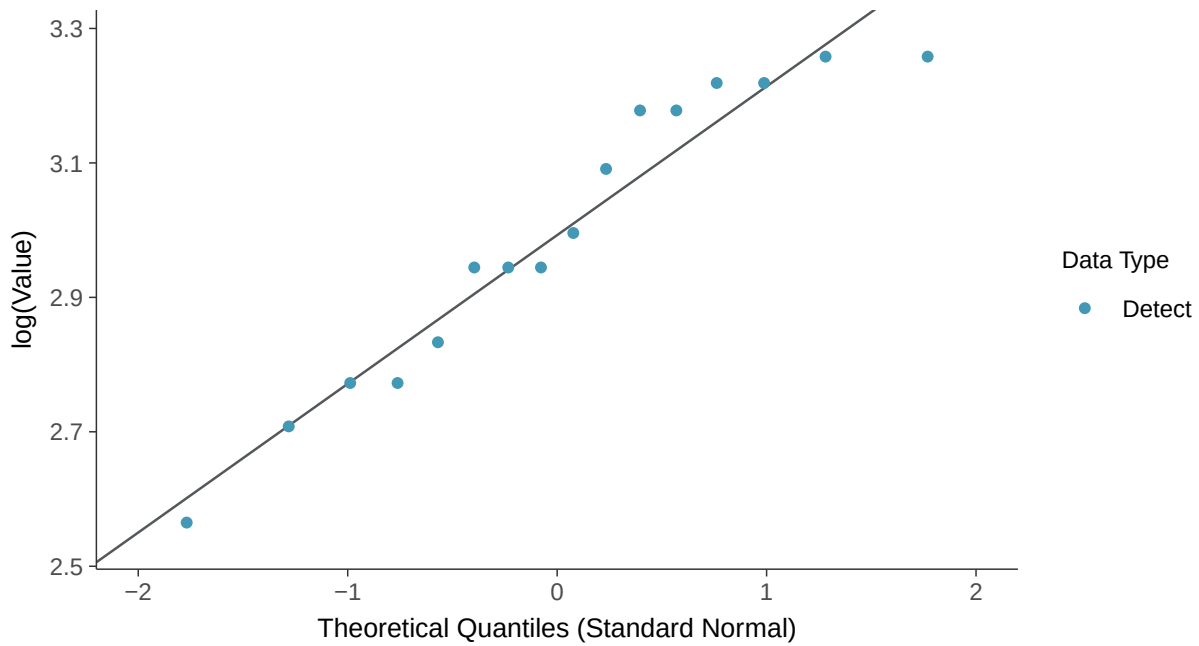
Normal Q-Q plot

Iron, MW-09 (mg/L)



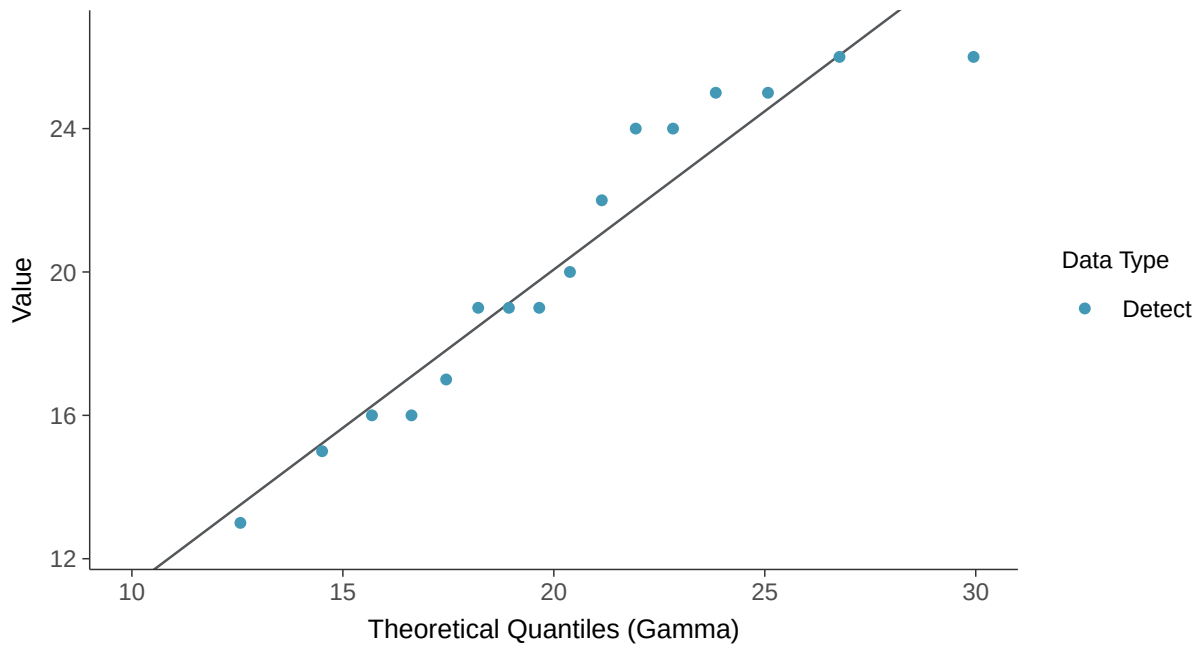
Lognormal Q-Q plot

Iron, MW-09 (mg/L)



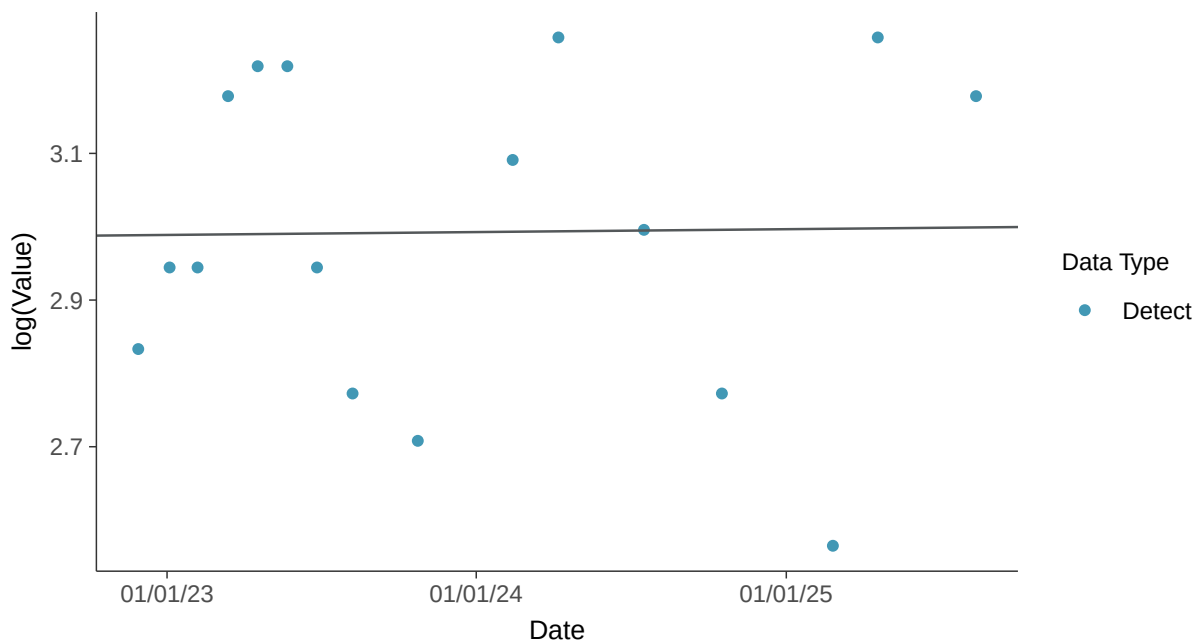
Gamma Q-Q plot

Iron, MW-09 (mg/L)



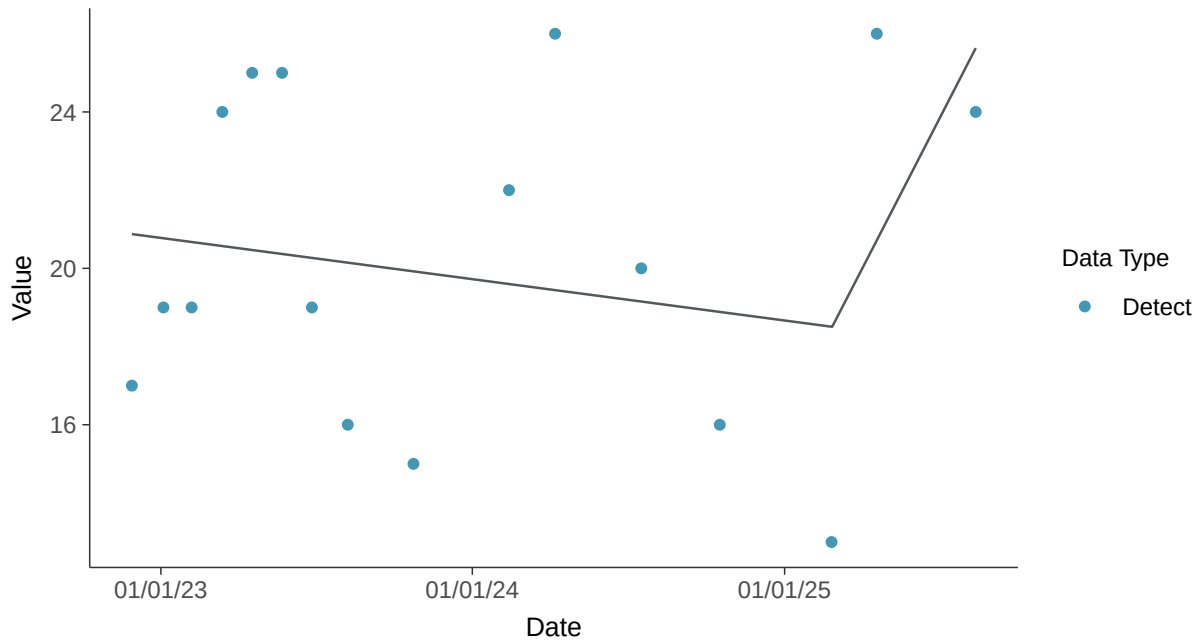
Trend Regression: Lognormal MLE

Iron, MW-09 (mg/L)



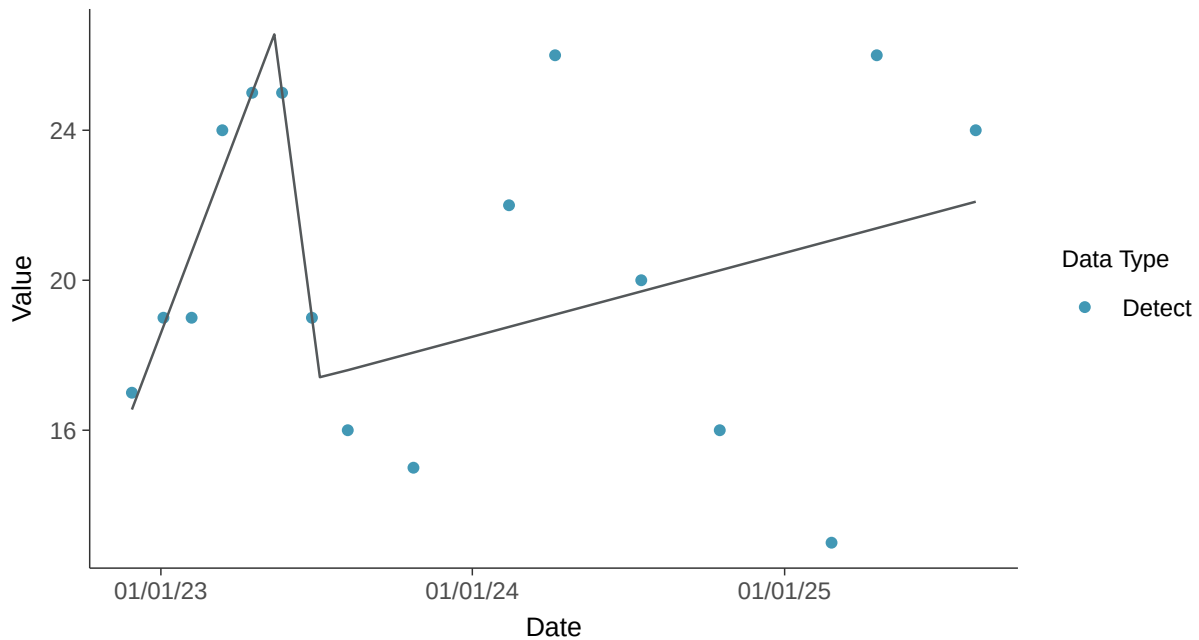
Trend Regression: Piecewise Linear-Linear

Iron, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-09 (mg/L)

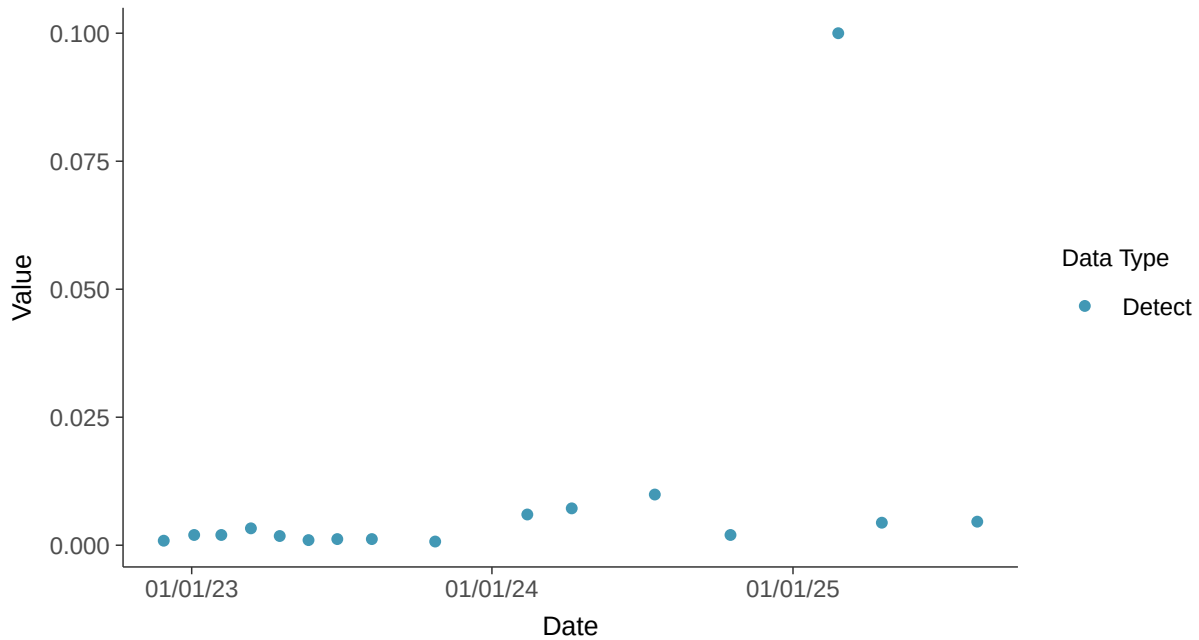


Part 115: Nickel, MW-09

ID: 19_2_5_119

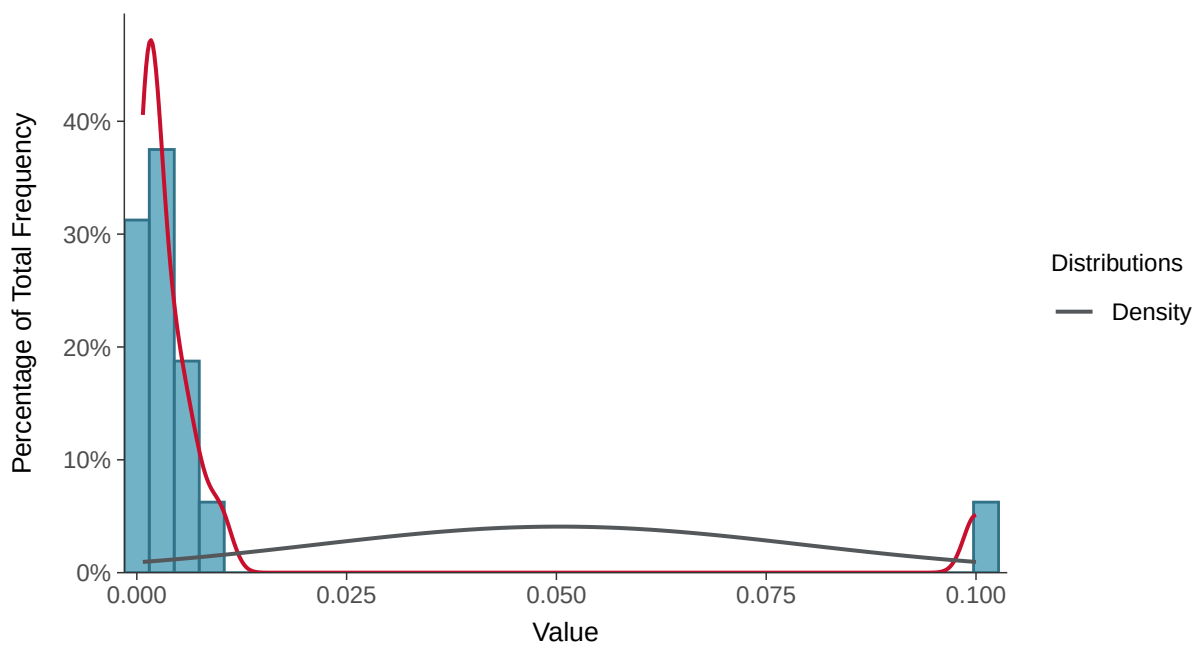
Scatter Plot

Nickel, MW-09 (mg/L)



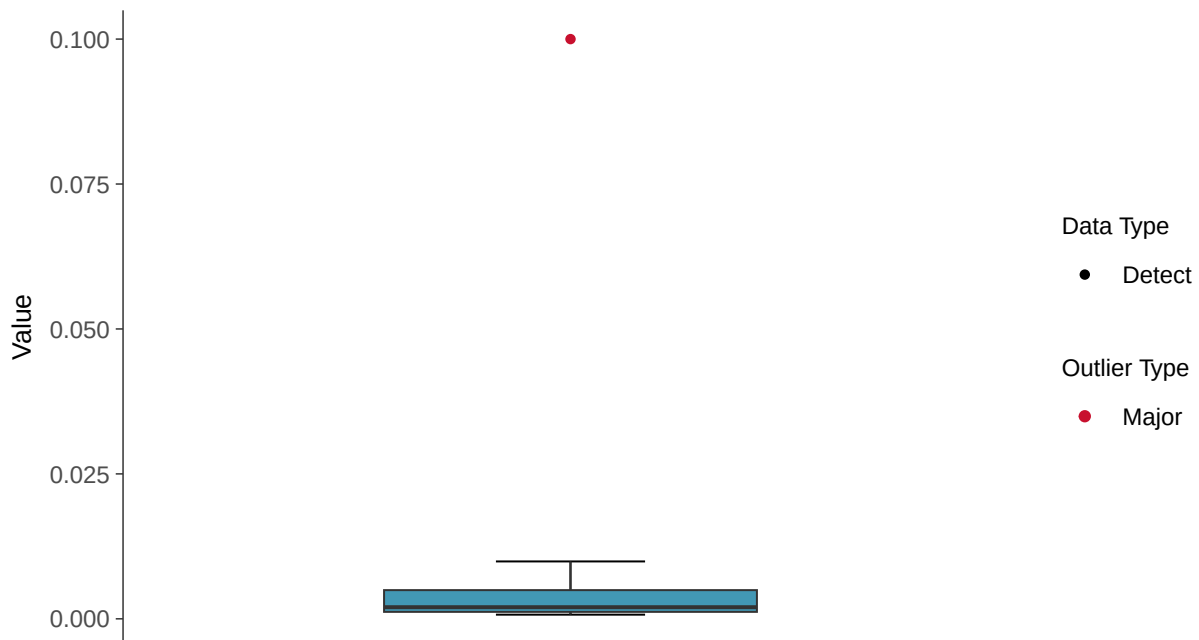
Histogram

Nickel, MW-09 (mg/L)



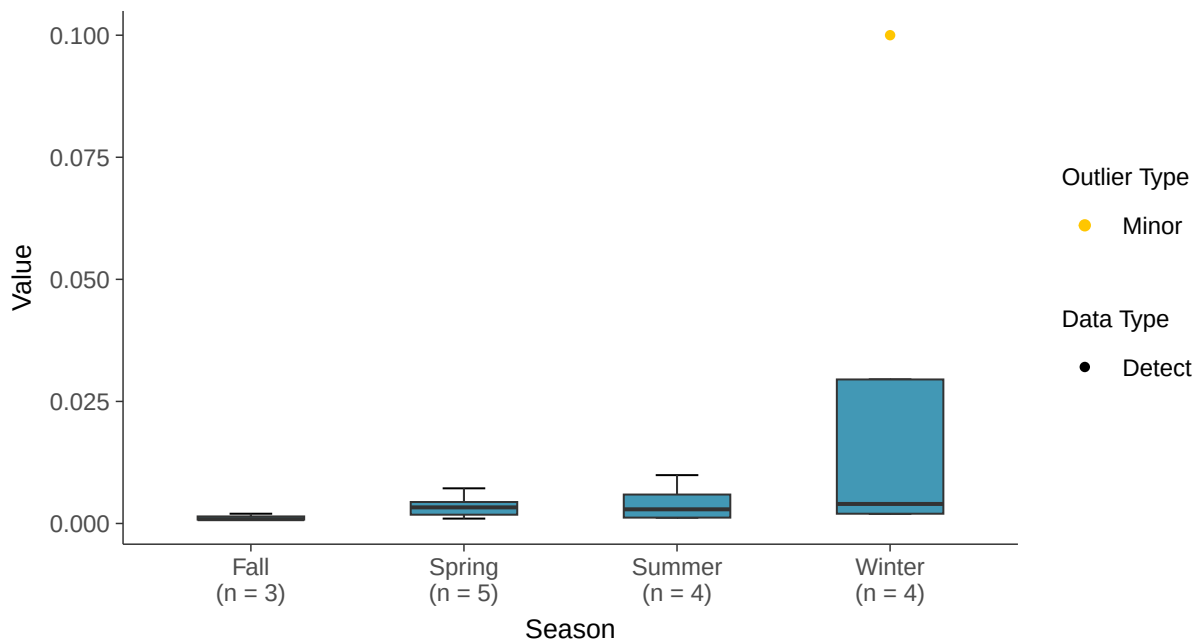
Boxplot

Nickel, MW-09 (mg/L)



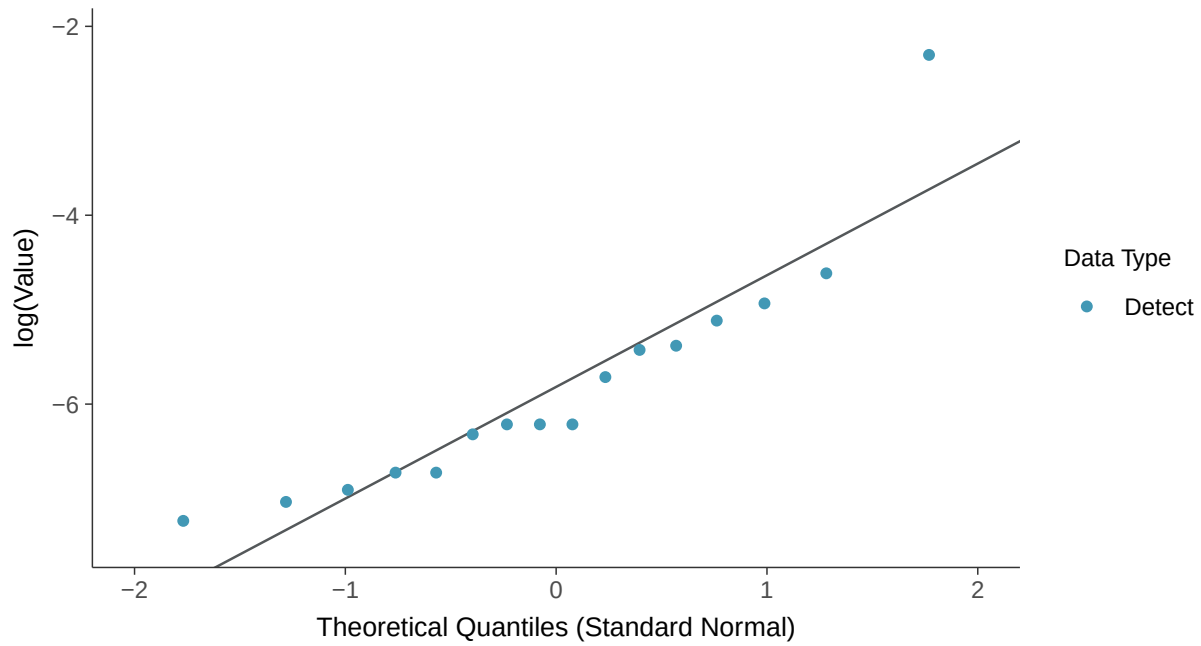
Boxplot by Season

Nickel, MW-09 (mg/L)



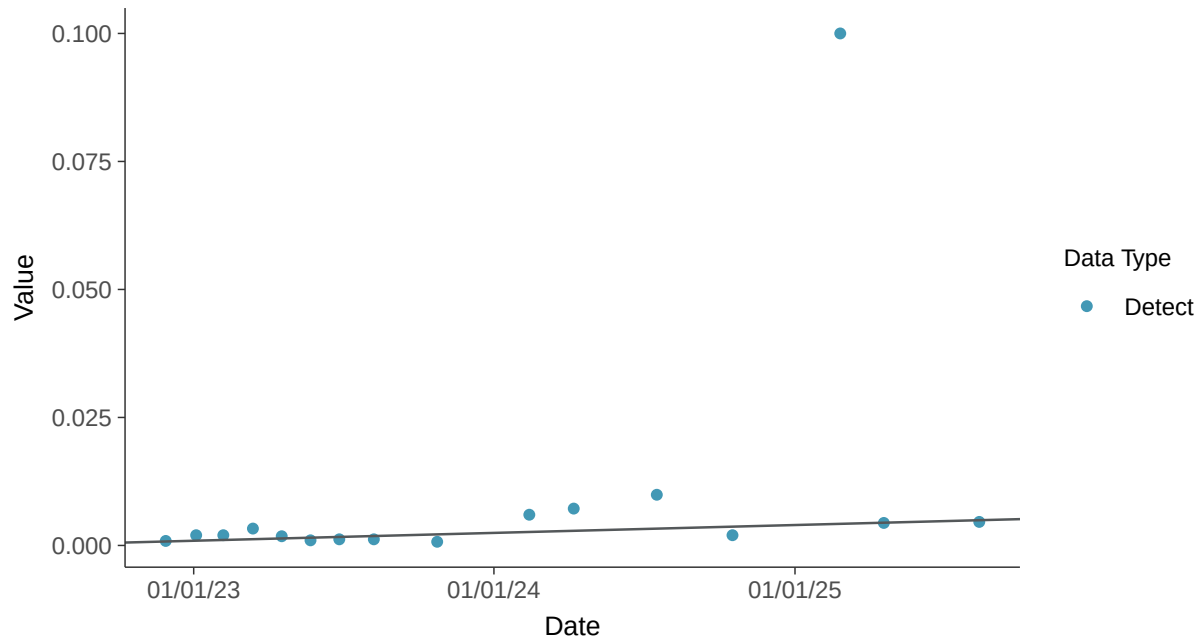
Lognormal Q-Q plot

Nickel, MW-09 (mg/L)



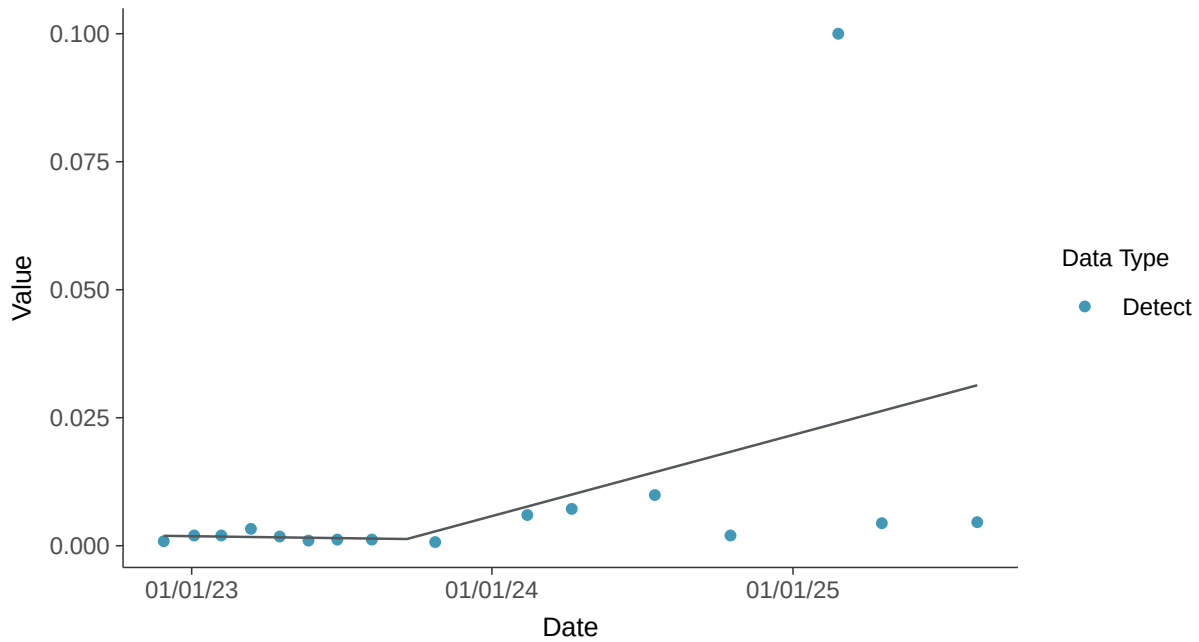
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-09 (mg/L)



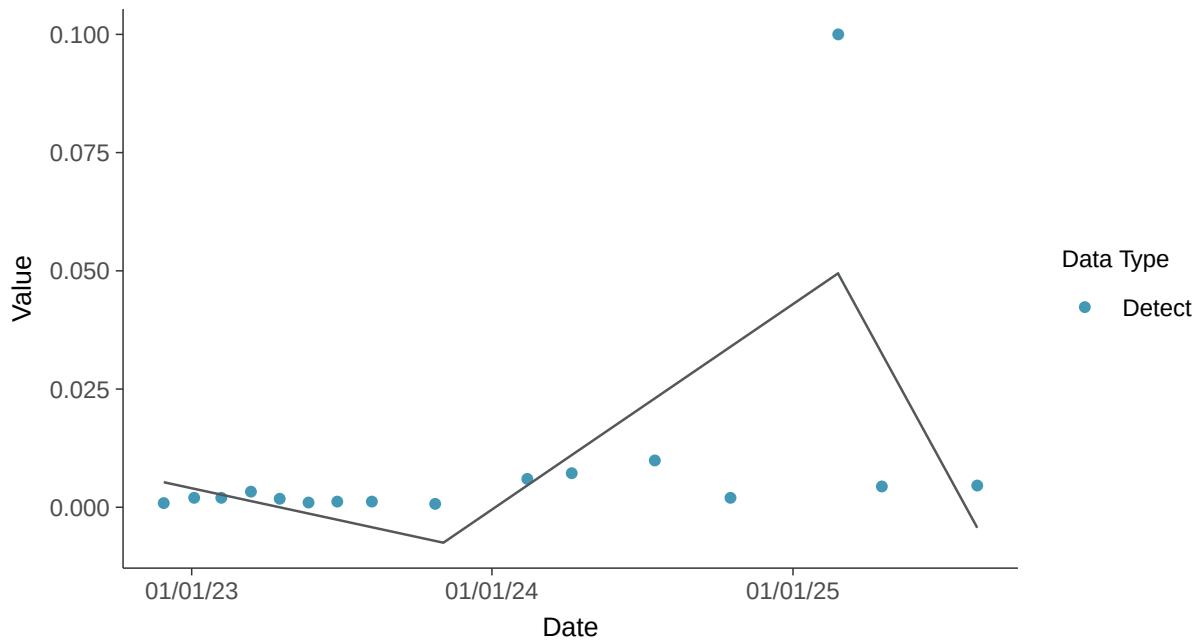
Trend Regression: Piecewise Linear-Linear

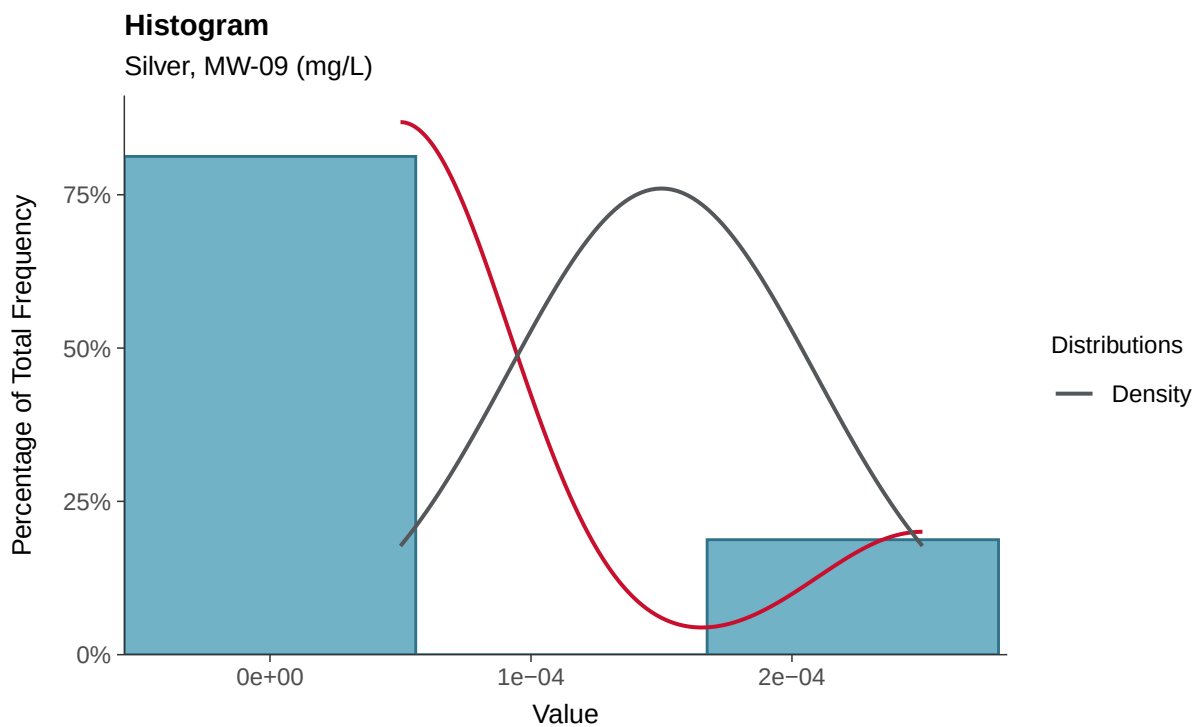
Nickel, MW-09 (mg/L)

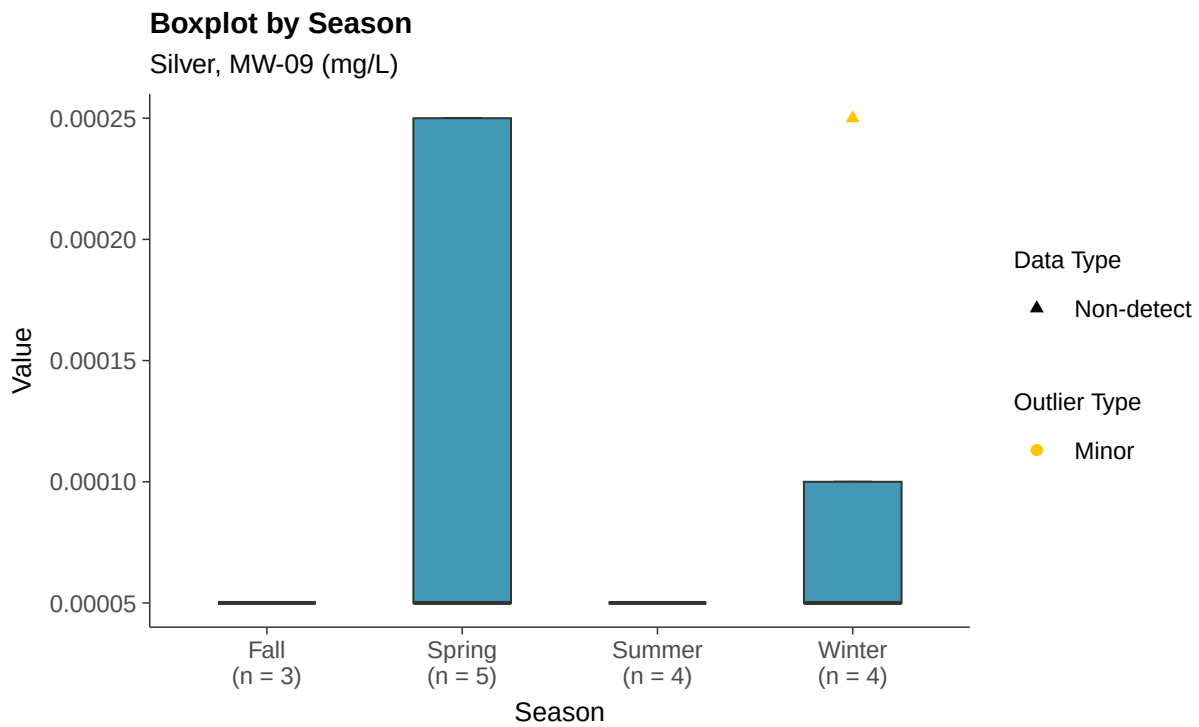
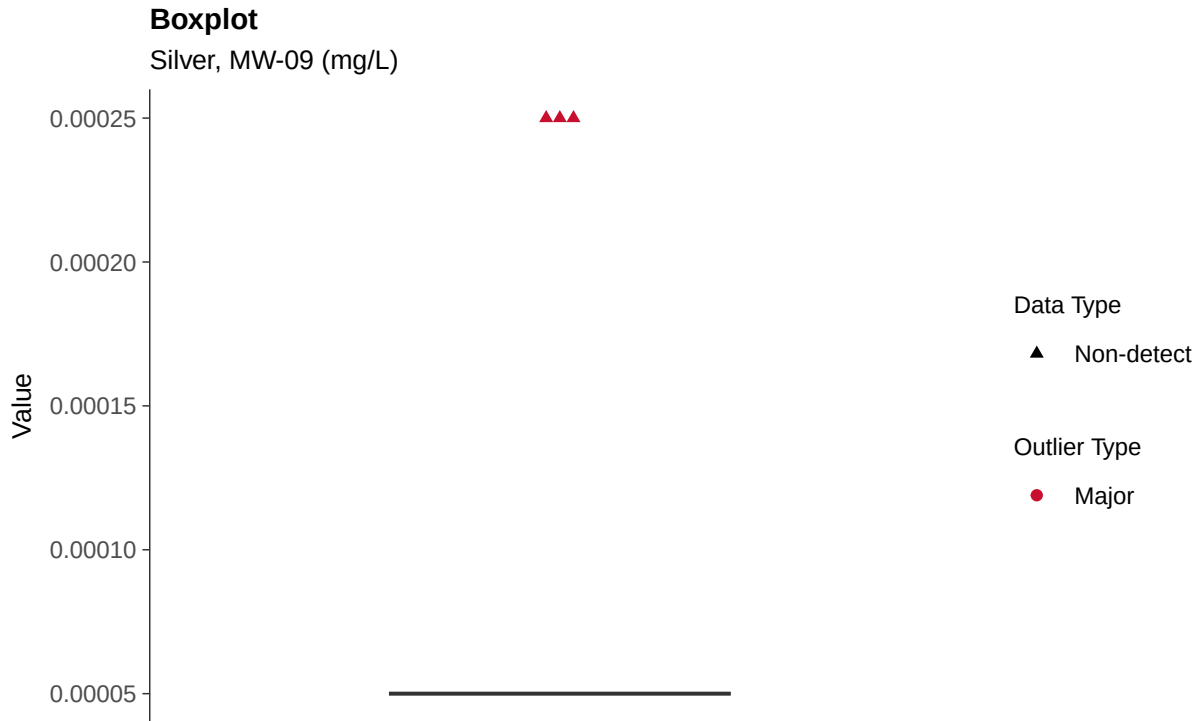


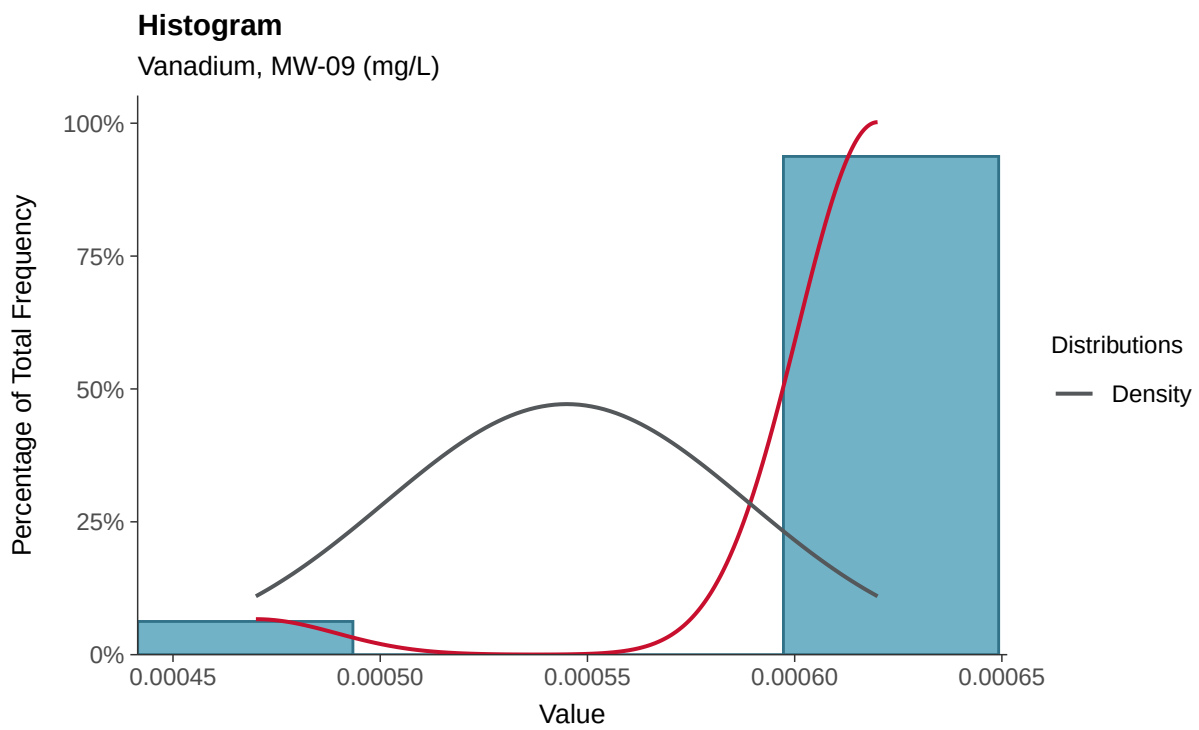
Trend Regression: Piecewise Linear-Linear-Linear

Nickel, MW-09 (mg/L)



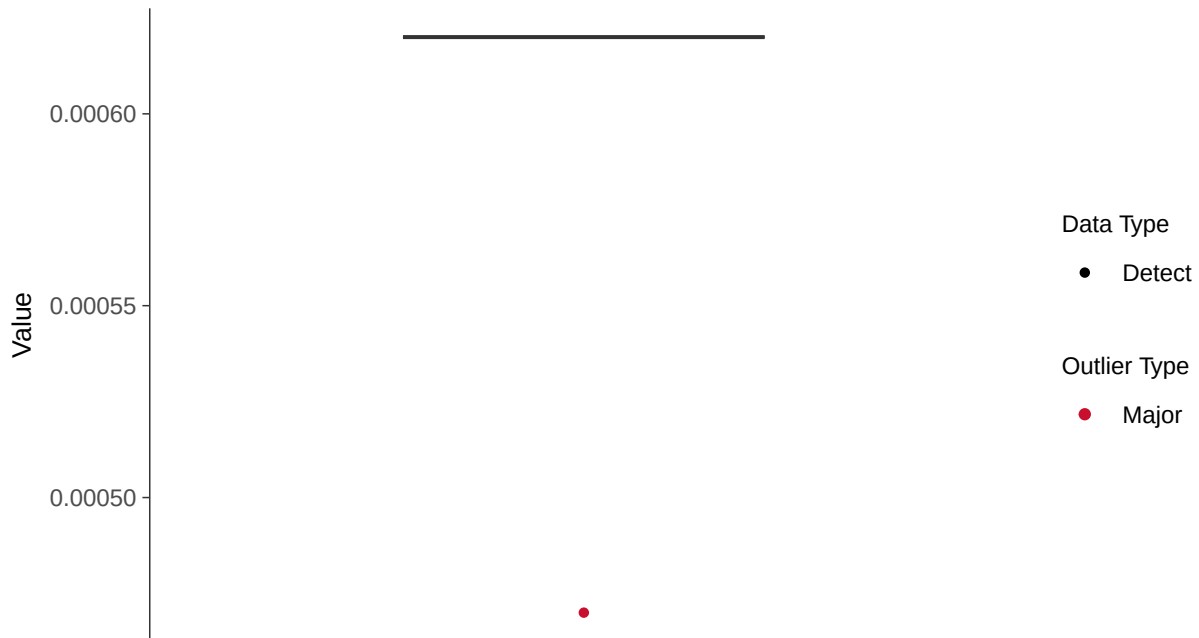






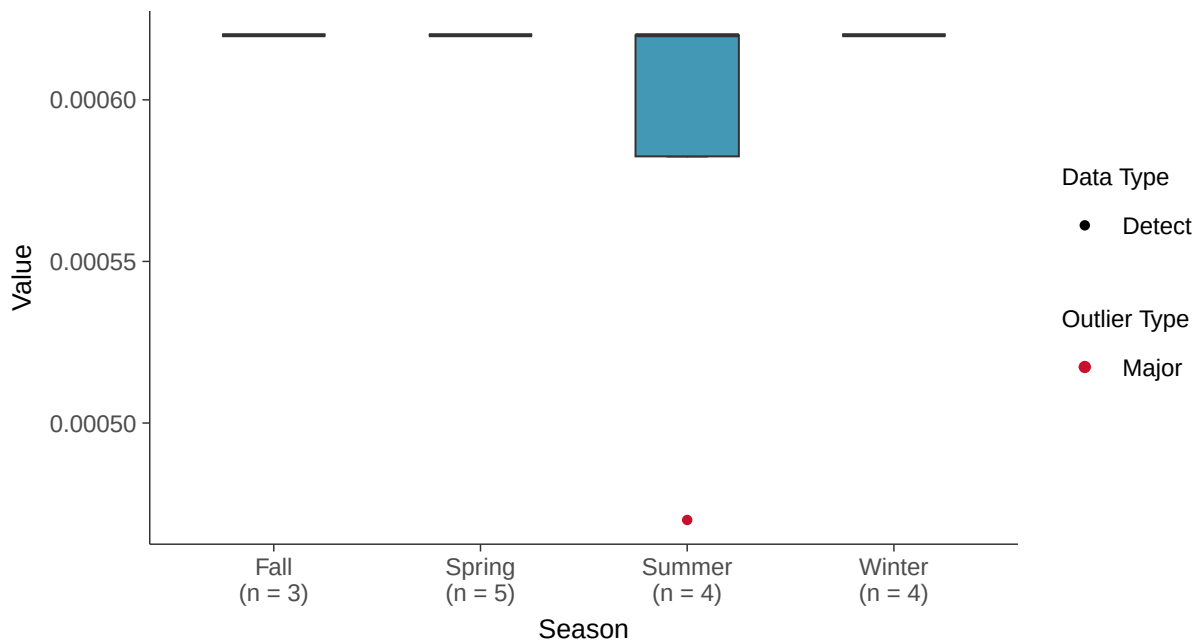
Boxplot

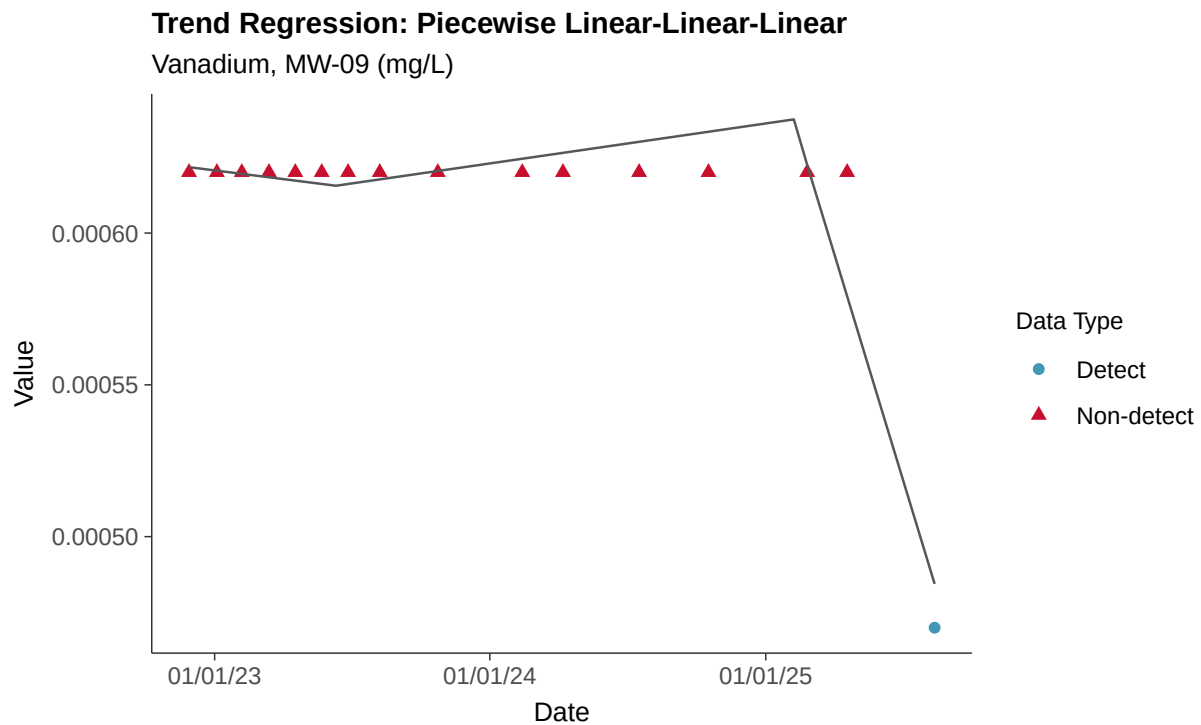
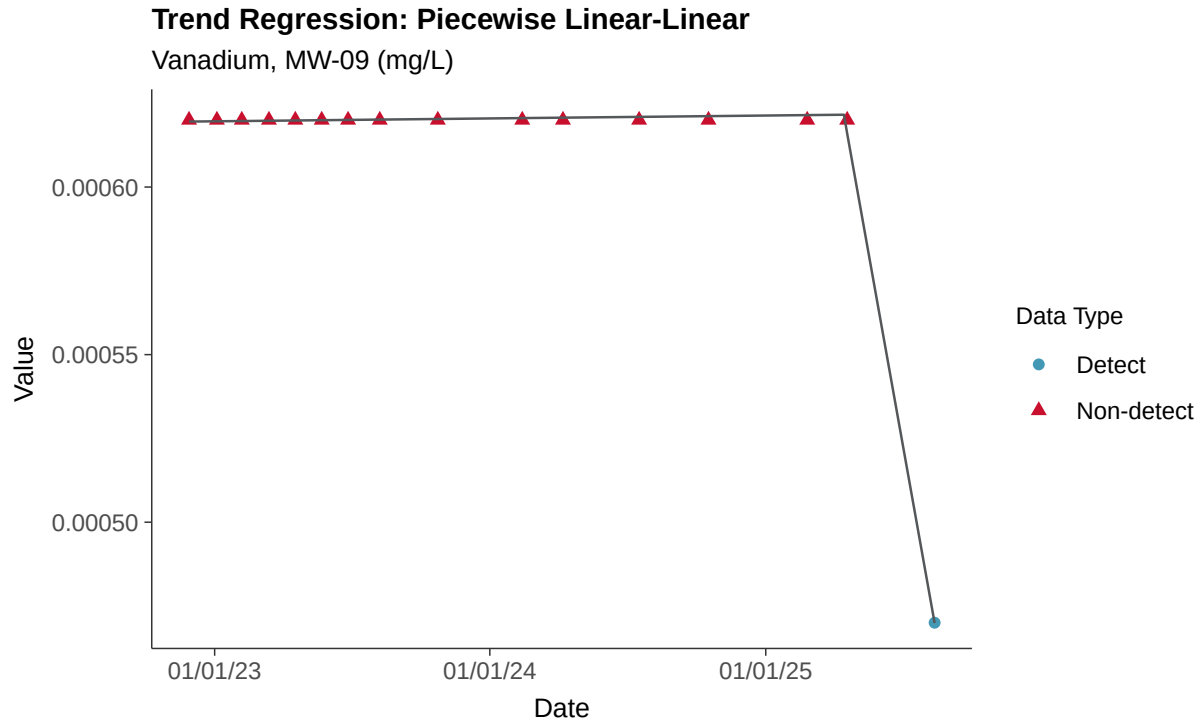
Vanadium, MW-09 (mg/L)

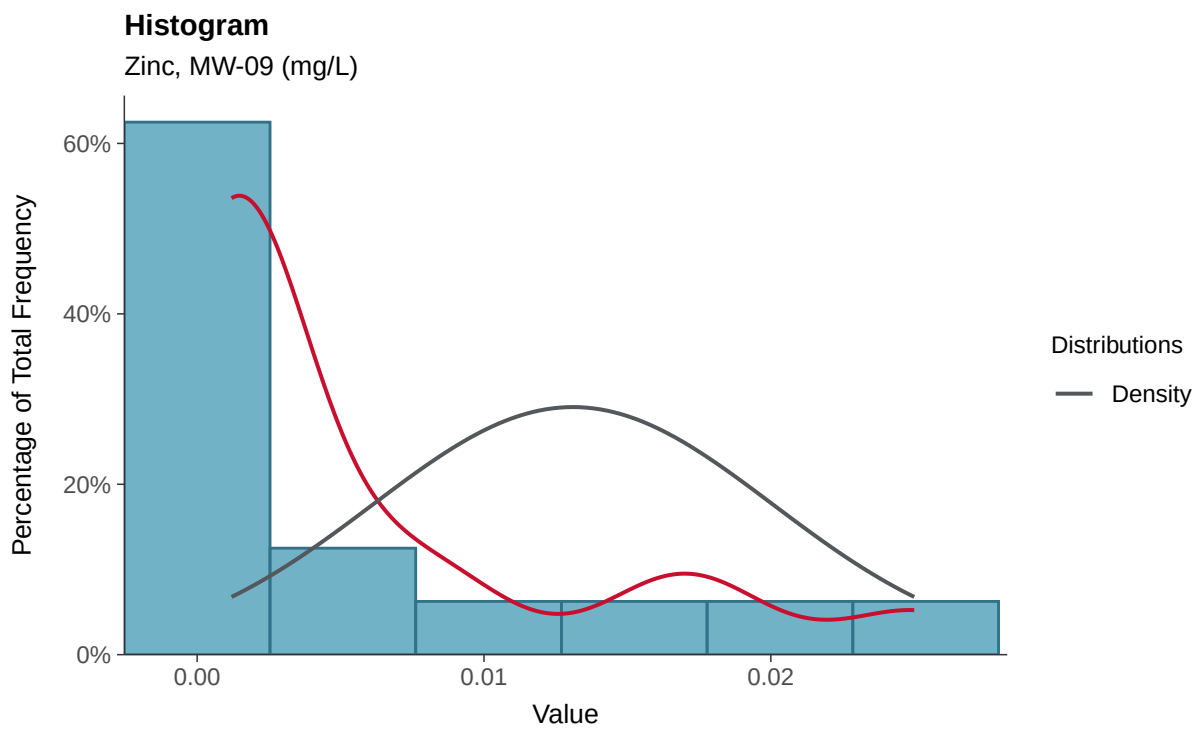


Boxplot by Season

Vanadium, MW-09 (mg/L)

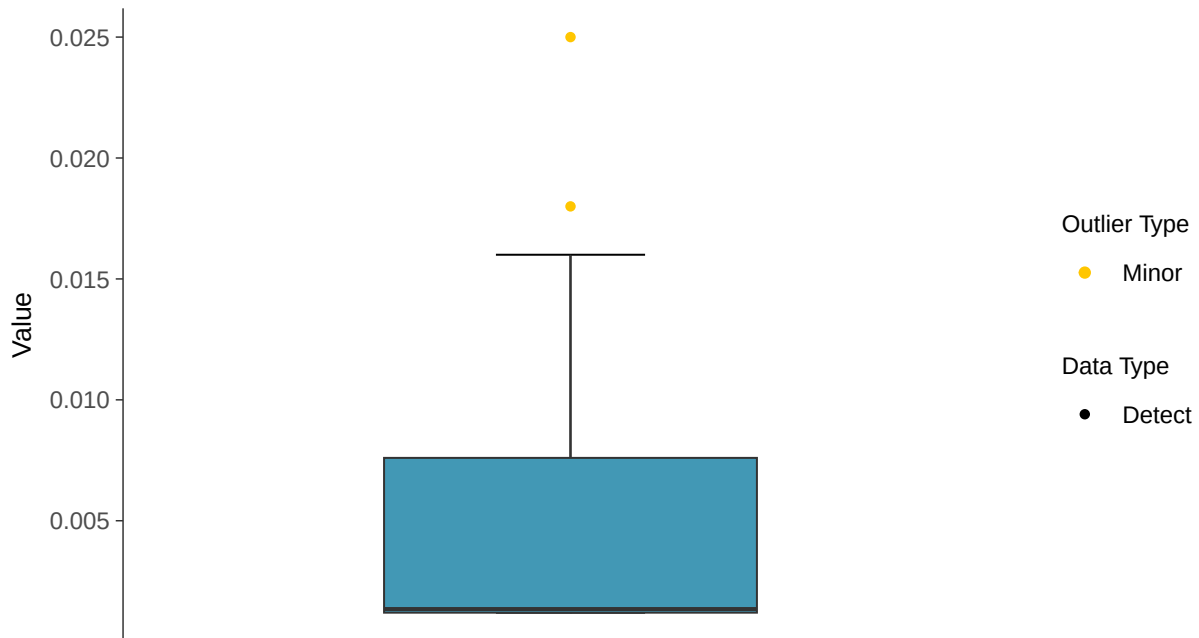






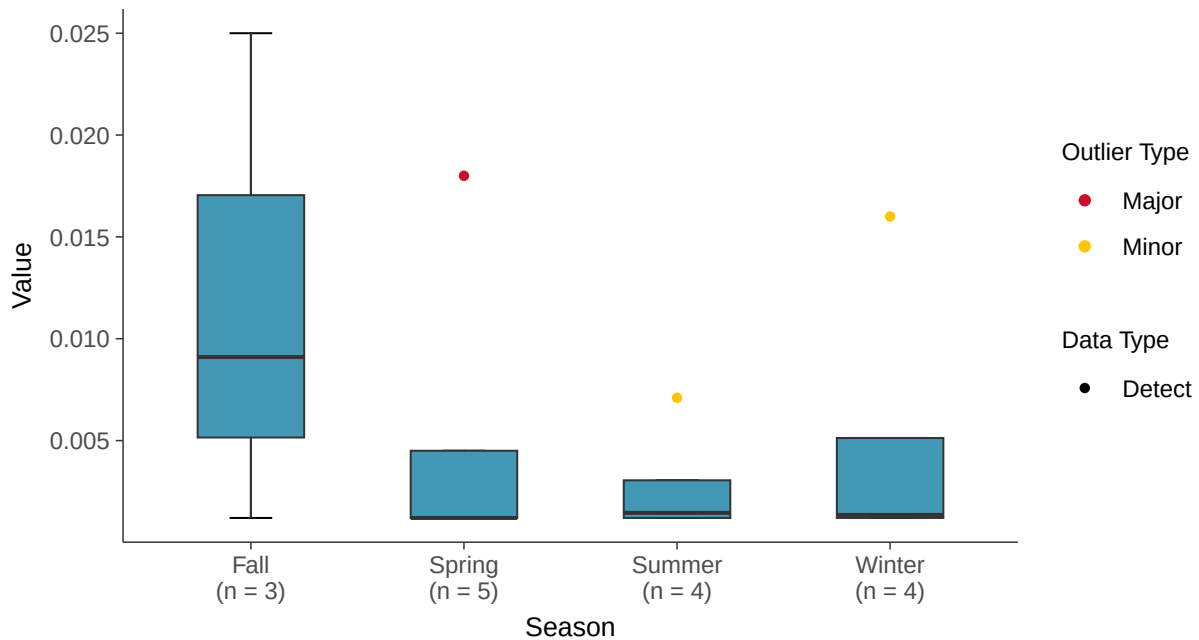
Boxplot

Zinc, MW-09 (mg/L)



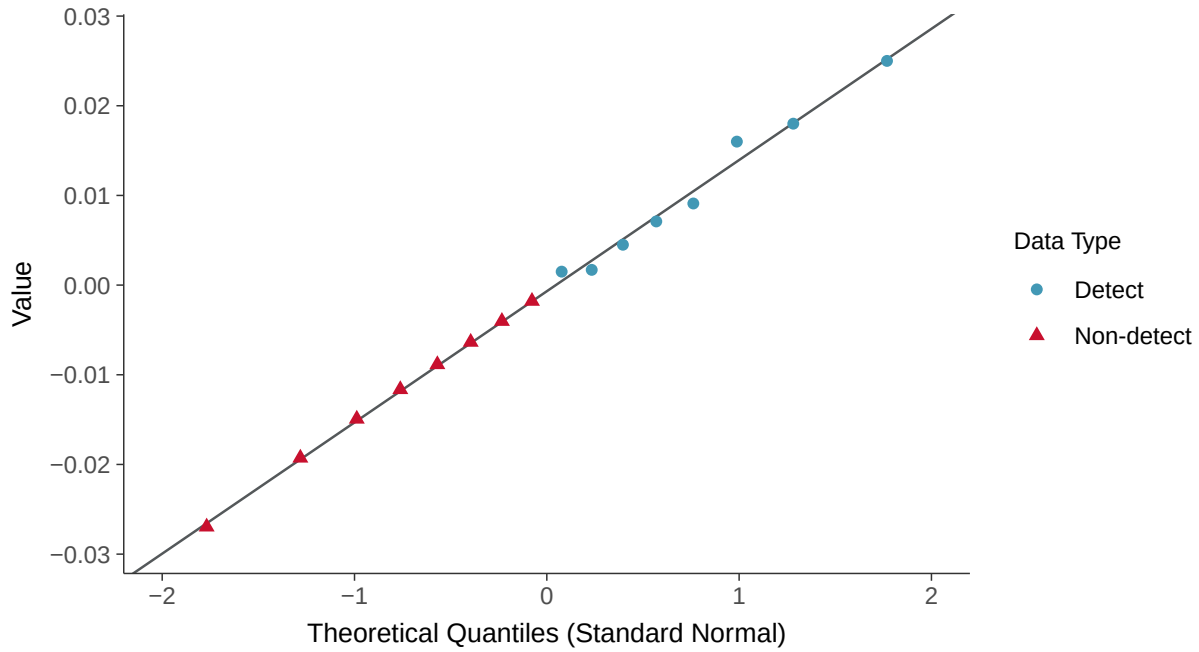
Boxplot by Season

Zinc, MW-09 (mg/L)



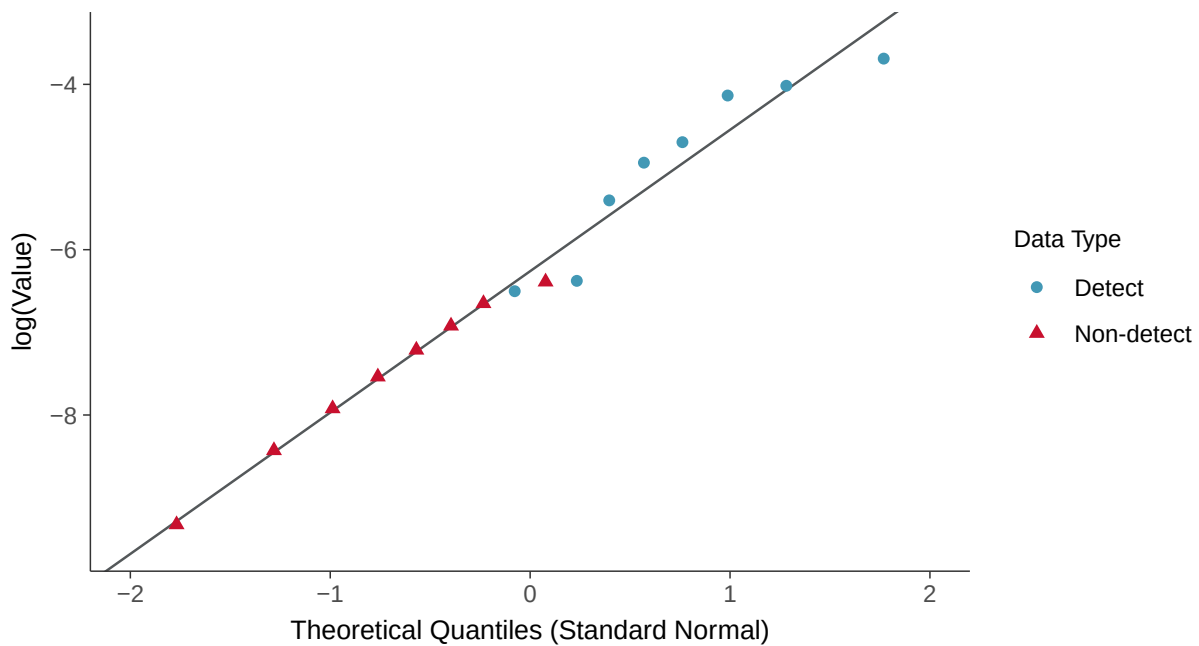
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-09 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

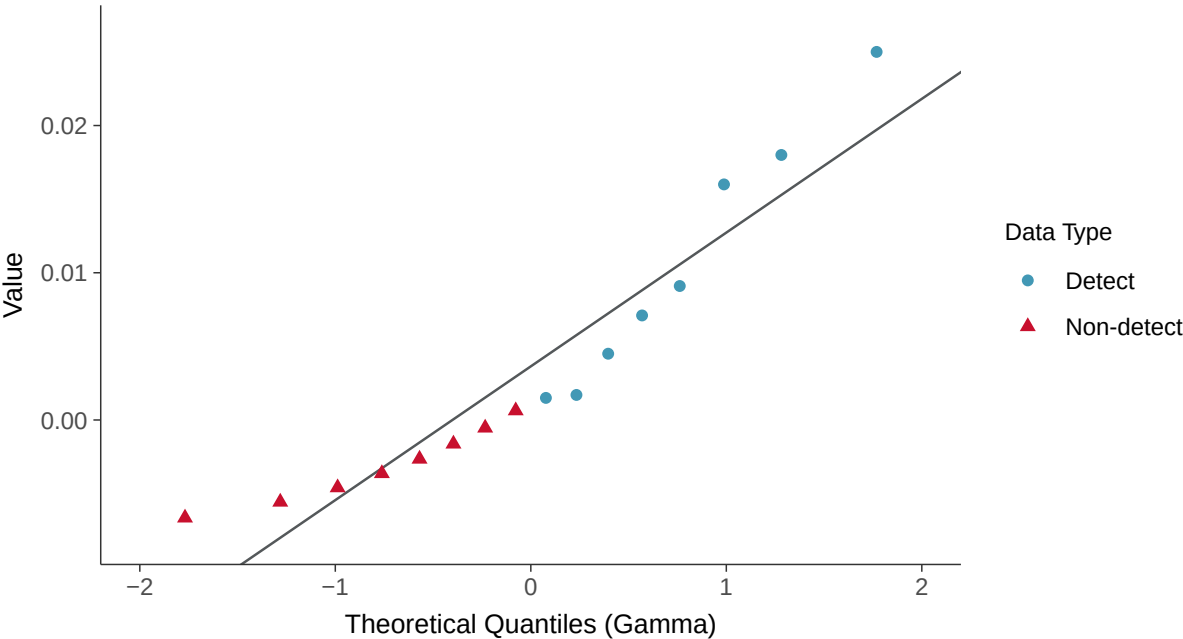
Zinc, MW-09 (mg/L)





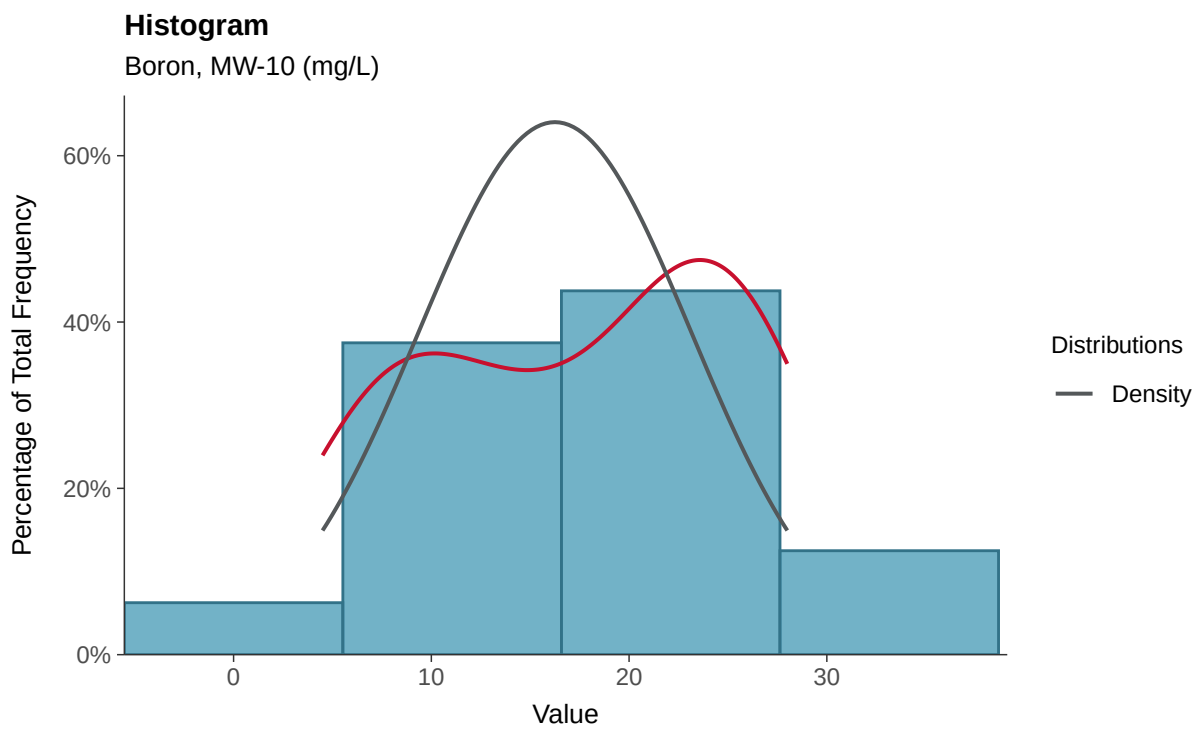
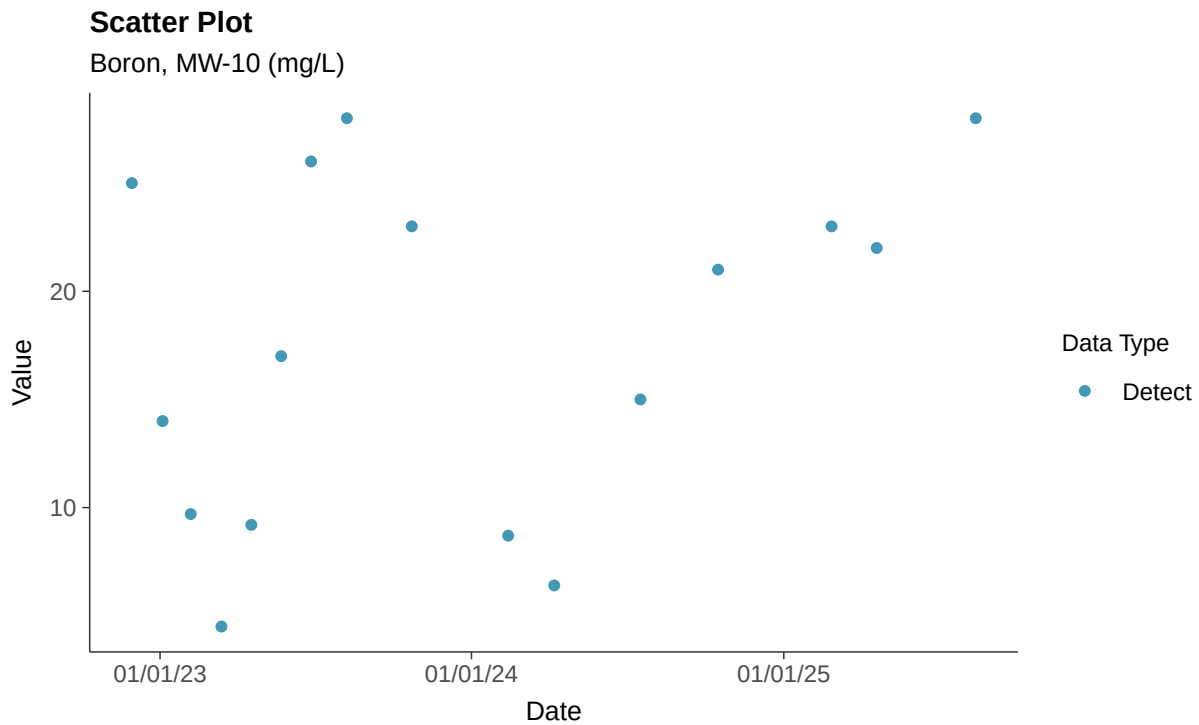
Gamma Q-Q plot using ROS Imputed Estimates

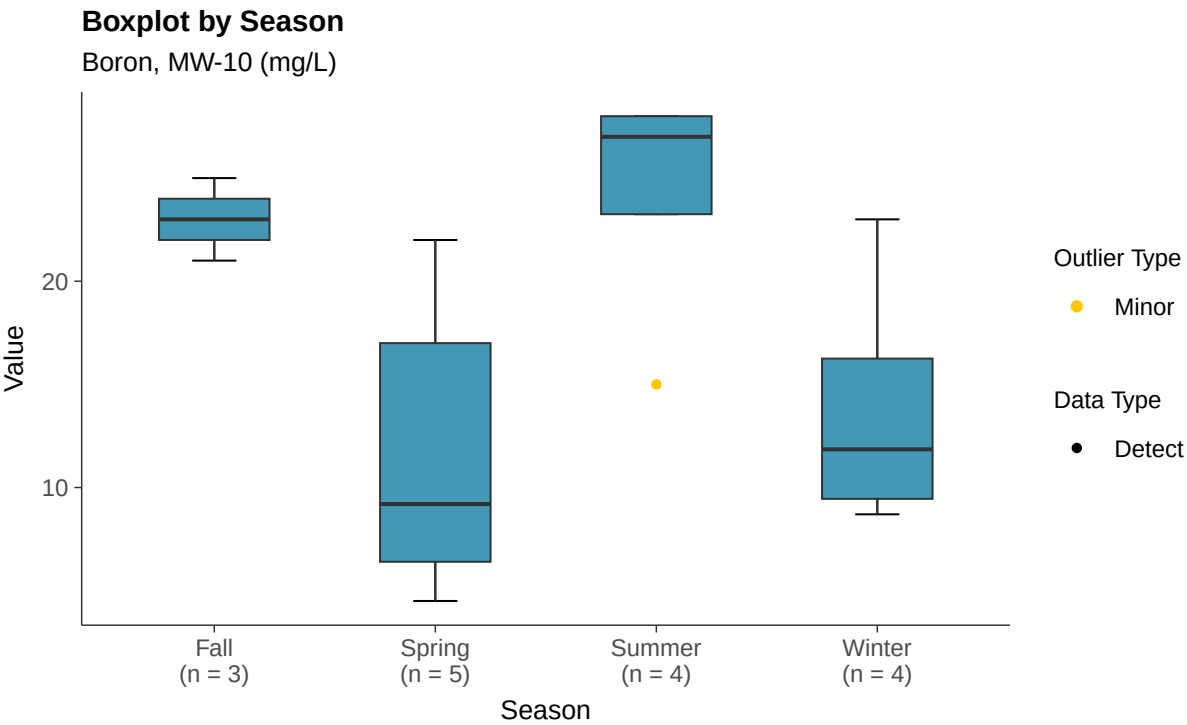
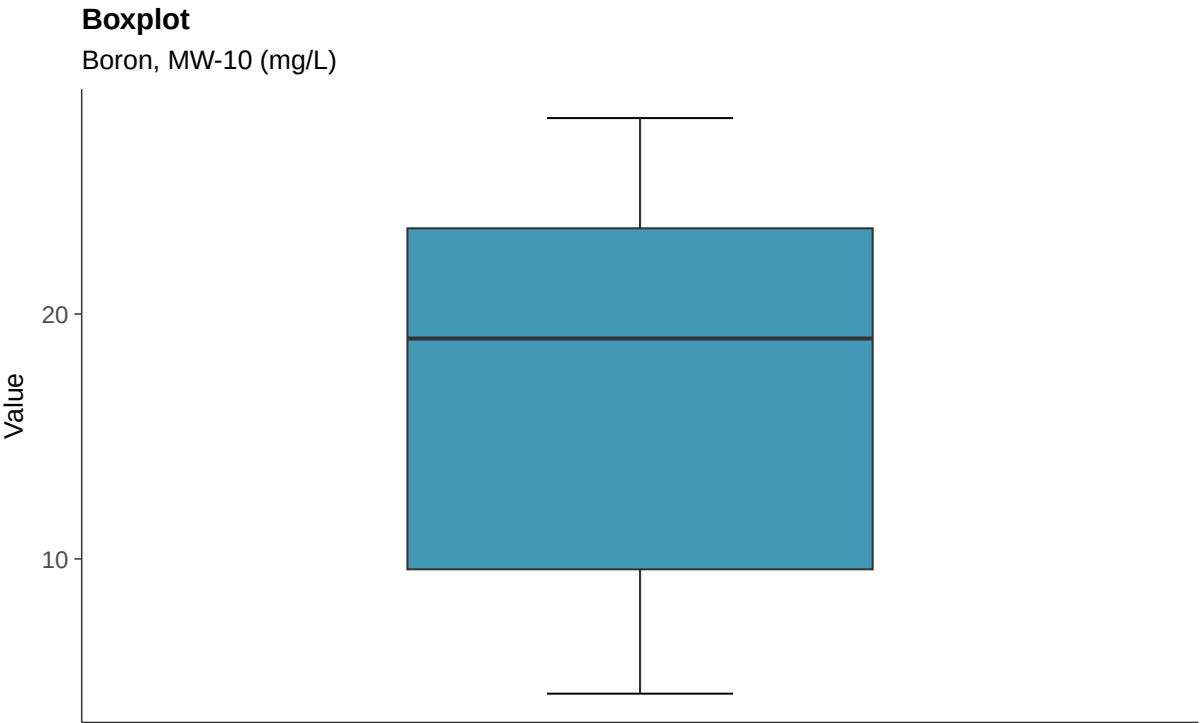
Zinc, MW-09 (mg/L)



Appendix III: Boron, MW-10

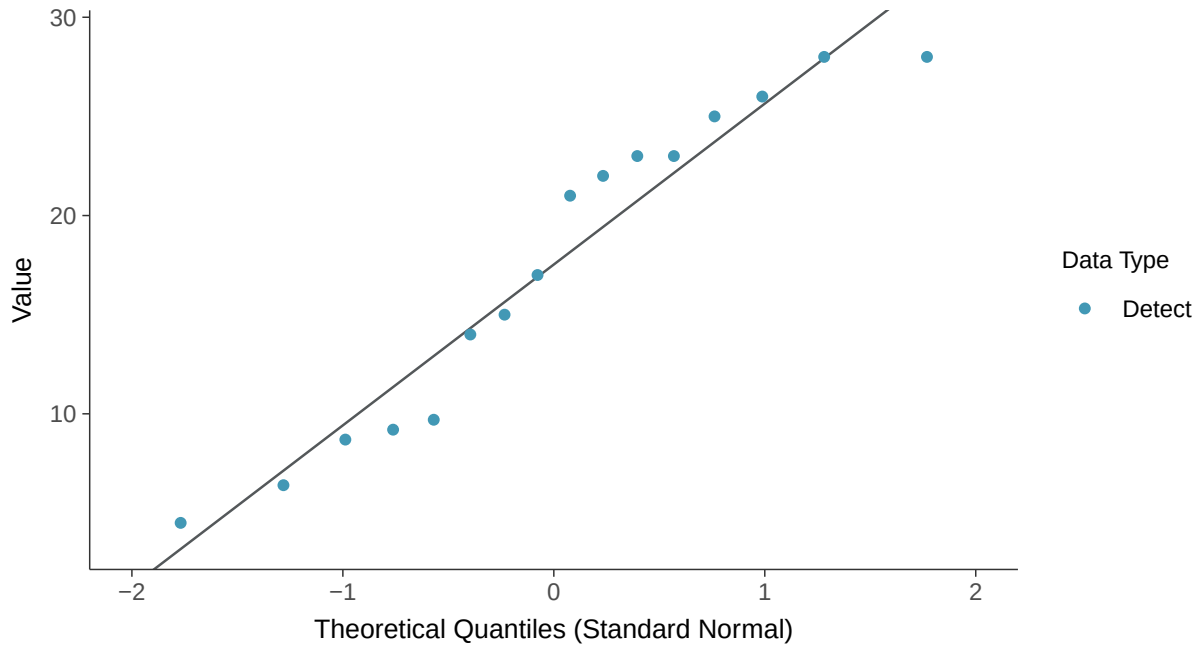
ID: 20_3_3_105





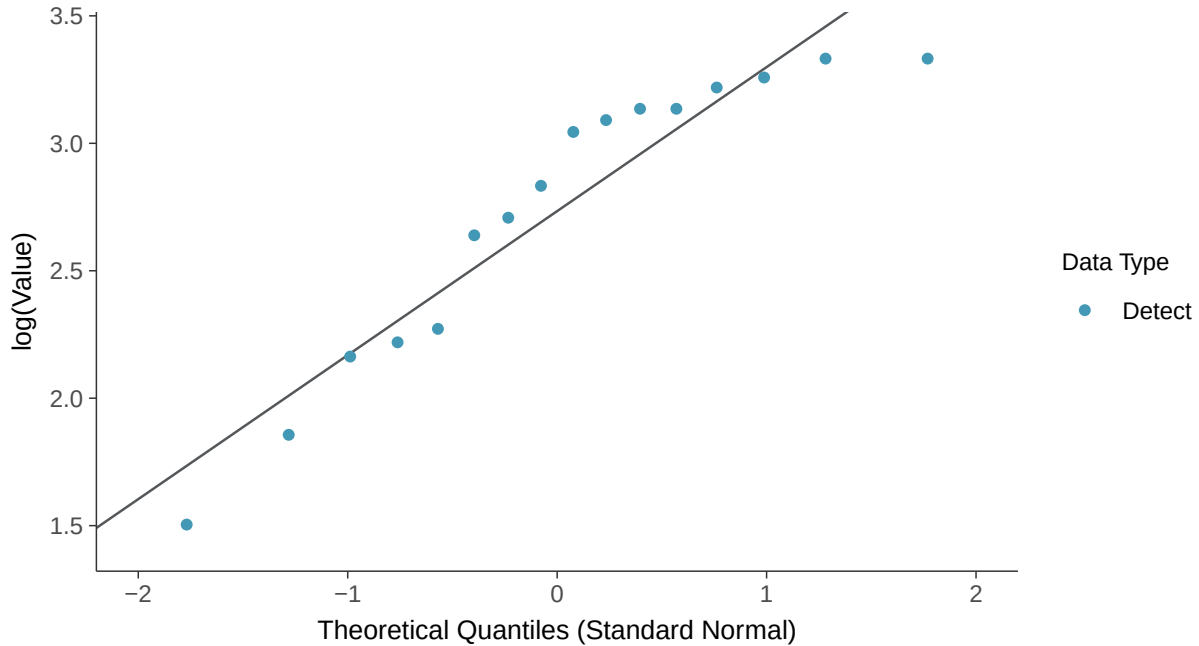
Normal Q-Q plot

Boron, MW-10 (mg/L)

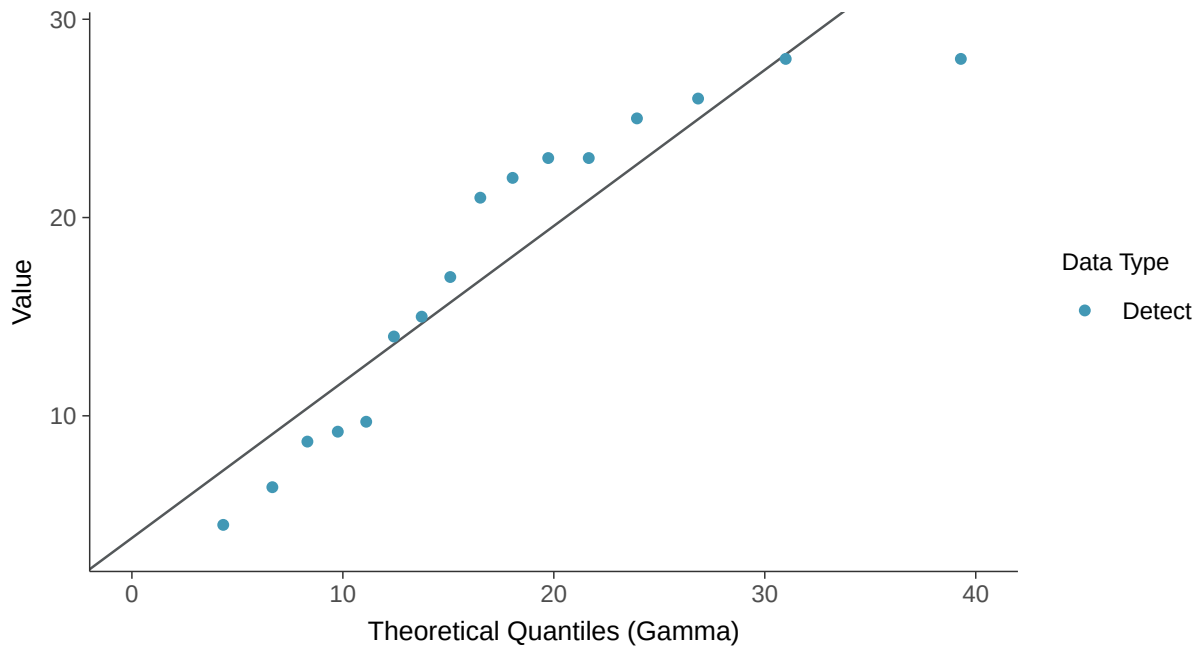


Lognormal Q-Q plot

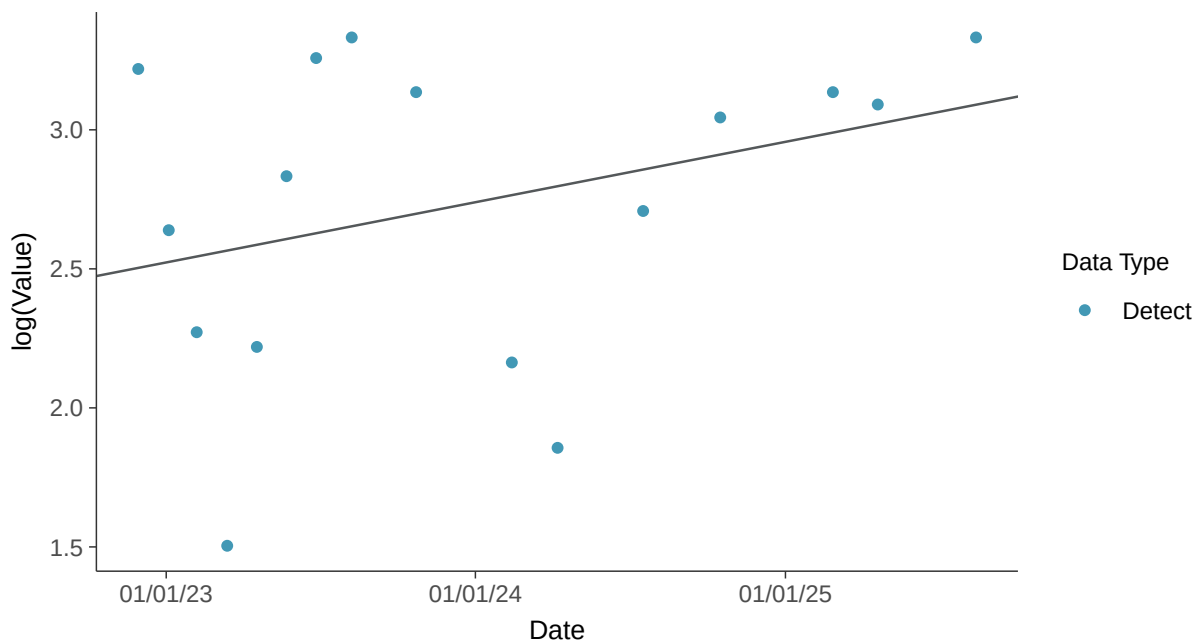
Boron, MW-10 (mg/L)



Gamma Q-Q plot
Boron, MW-10 (mg/L)

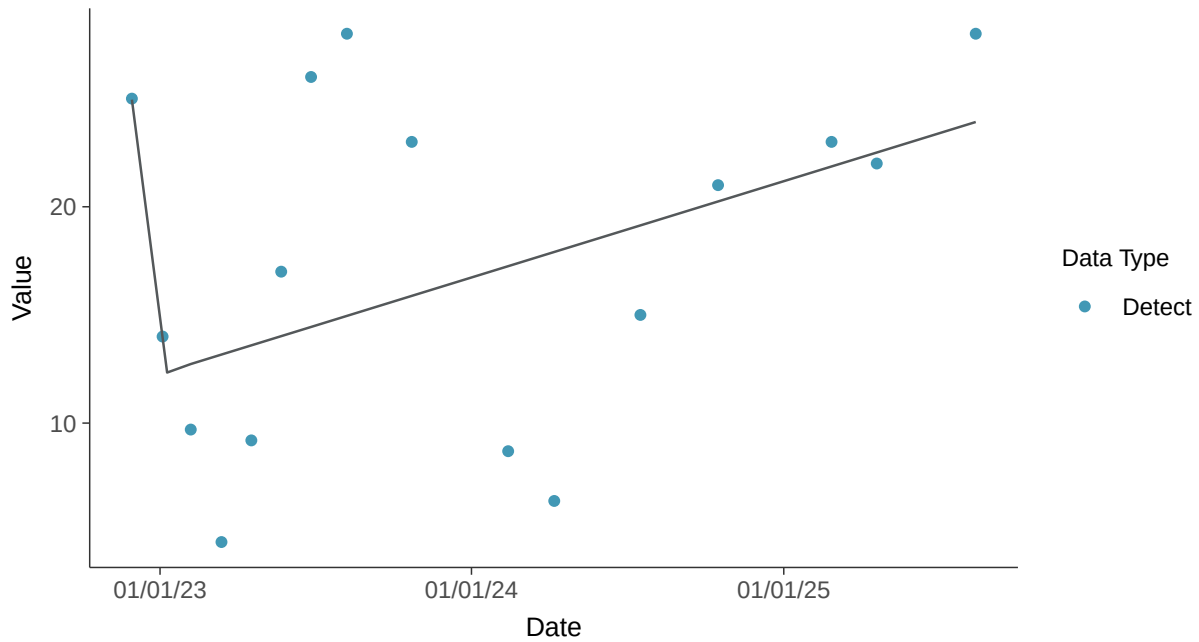


Trend Regression: Lognormal MLE
Boron, MW-10 (mg/L)



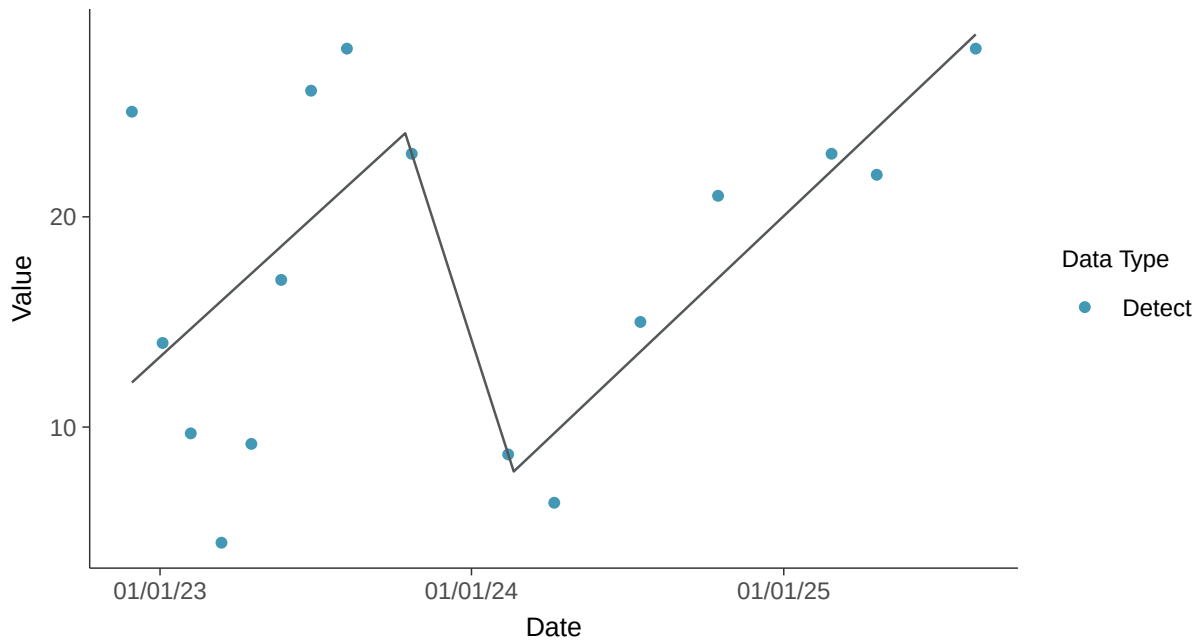
Trend Regression: Piecewise Linear-Linear

Boron, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-10 (mg/L)

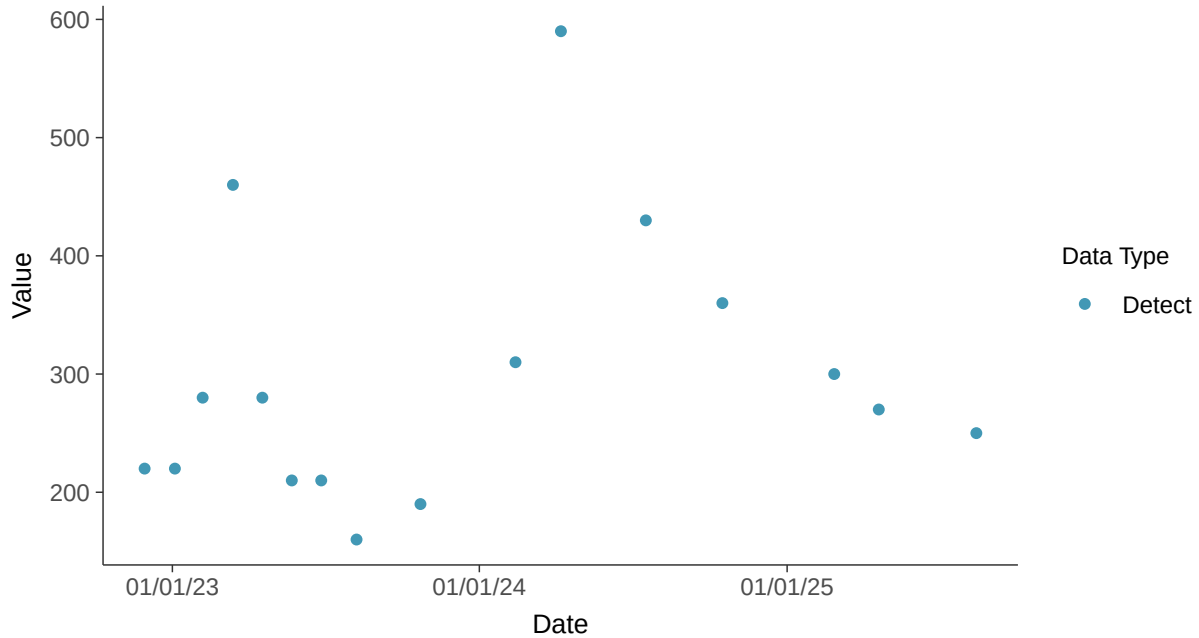


Appendix III: Calcium, MW-10

ID: 20_3_3_107

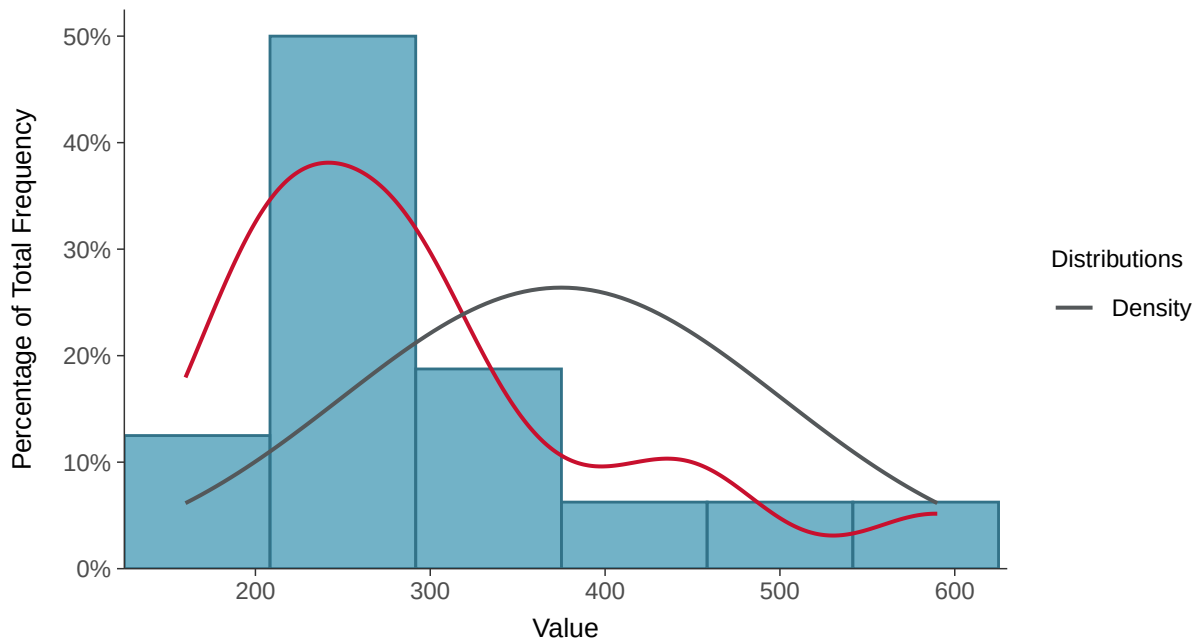
Scatter Plot

Calcium, MW-10 (mg/L)



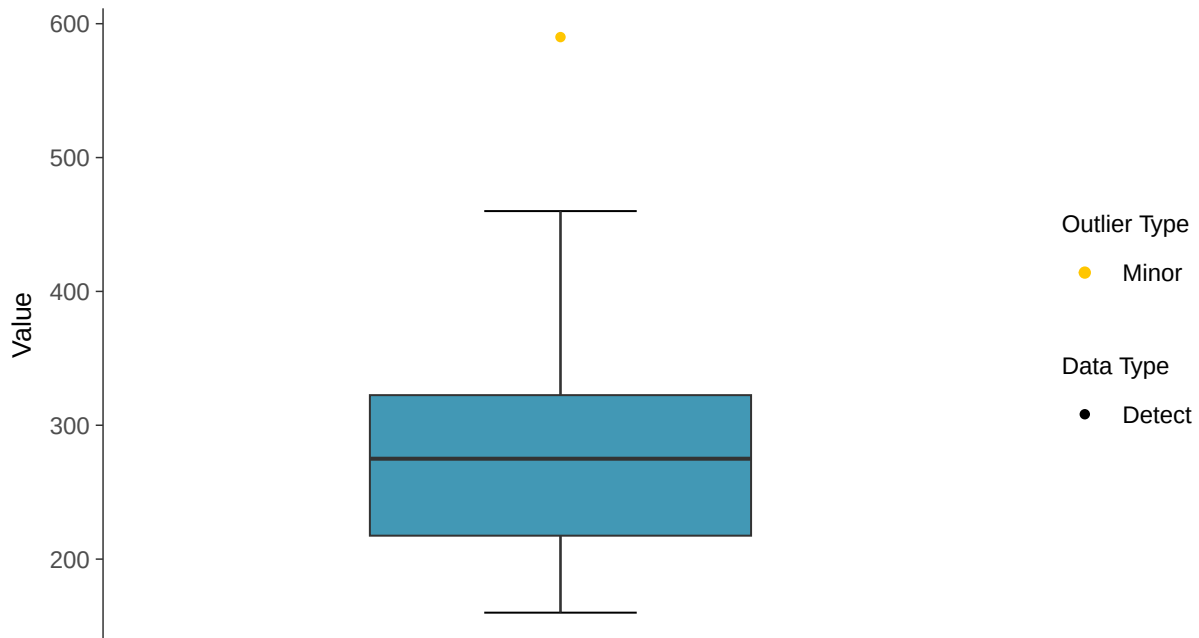
Histogram

Calcium, MW-10 (mg/L)



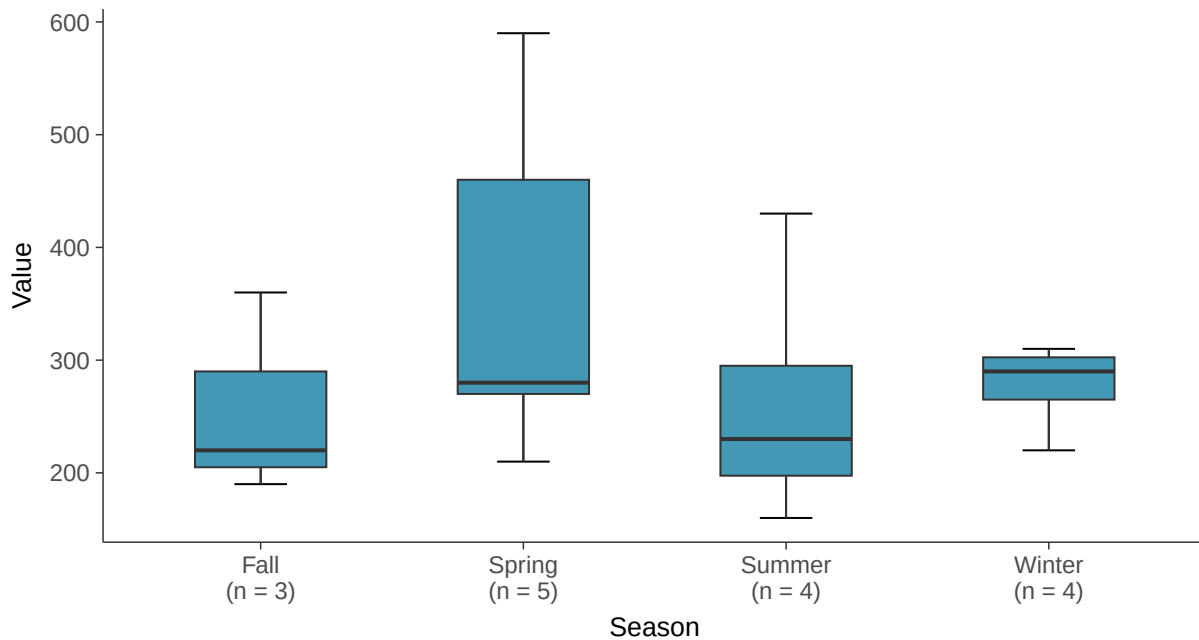
Boxplot

Calcium, MW-10 (mg/L)



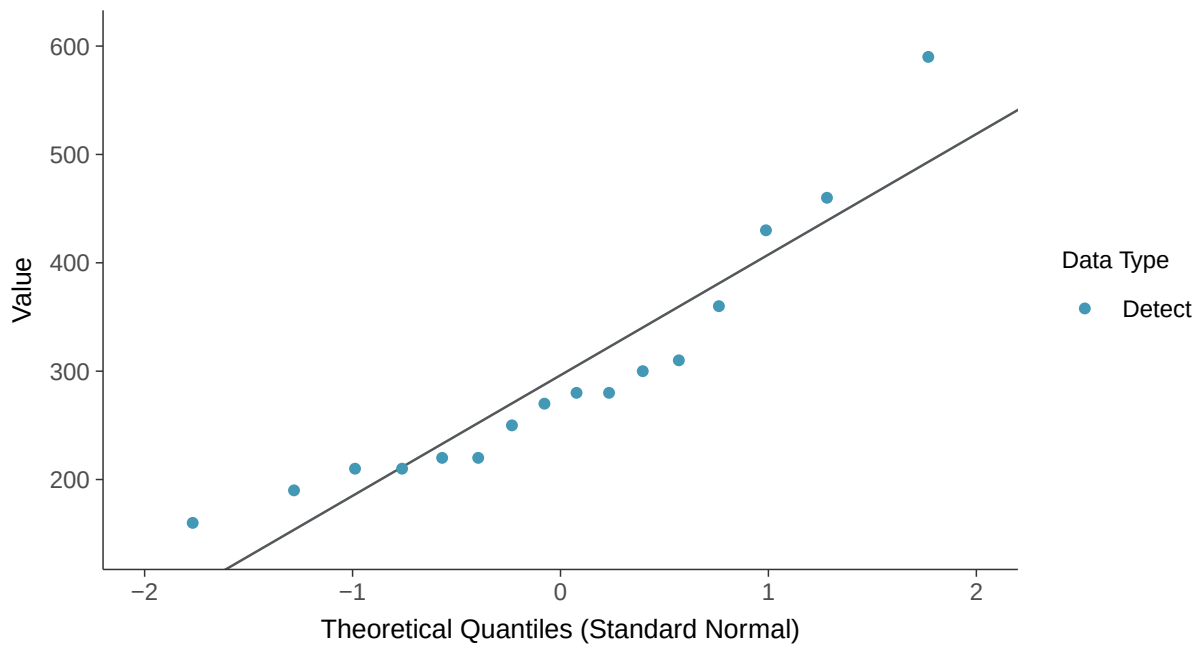
Boxplot by Season

Calcium, MW-10 (mg/L)



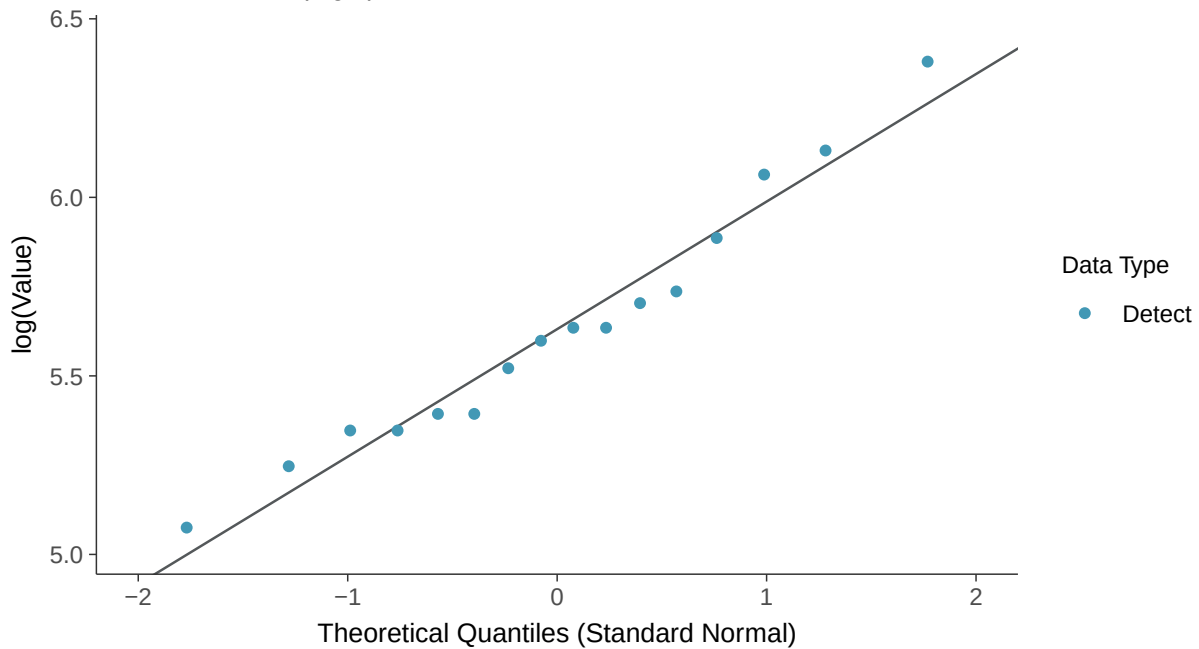
Normal Q-Q plot

Calcium, MW-10 (mg/L)



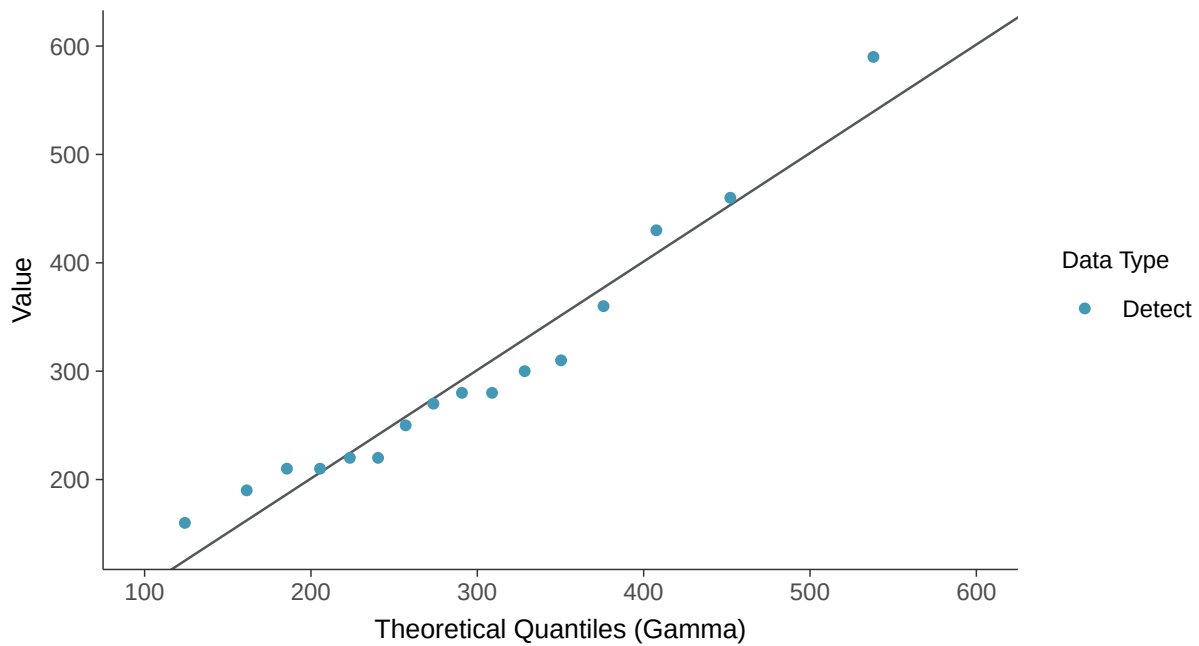
Lognormal Q-Q plot

Calcium, MW-10 (mg/L)



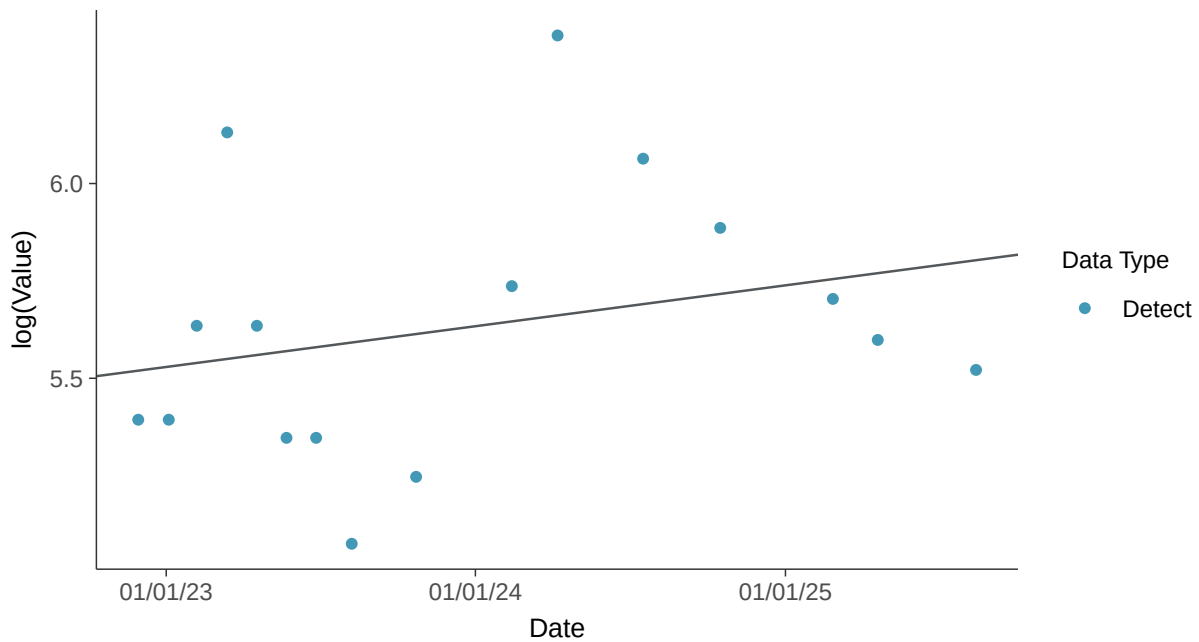
Gamma Q-Q plot

Calcium, MW-10 (mg/L)



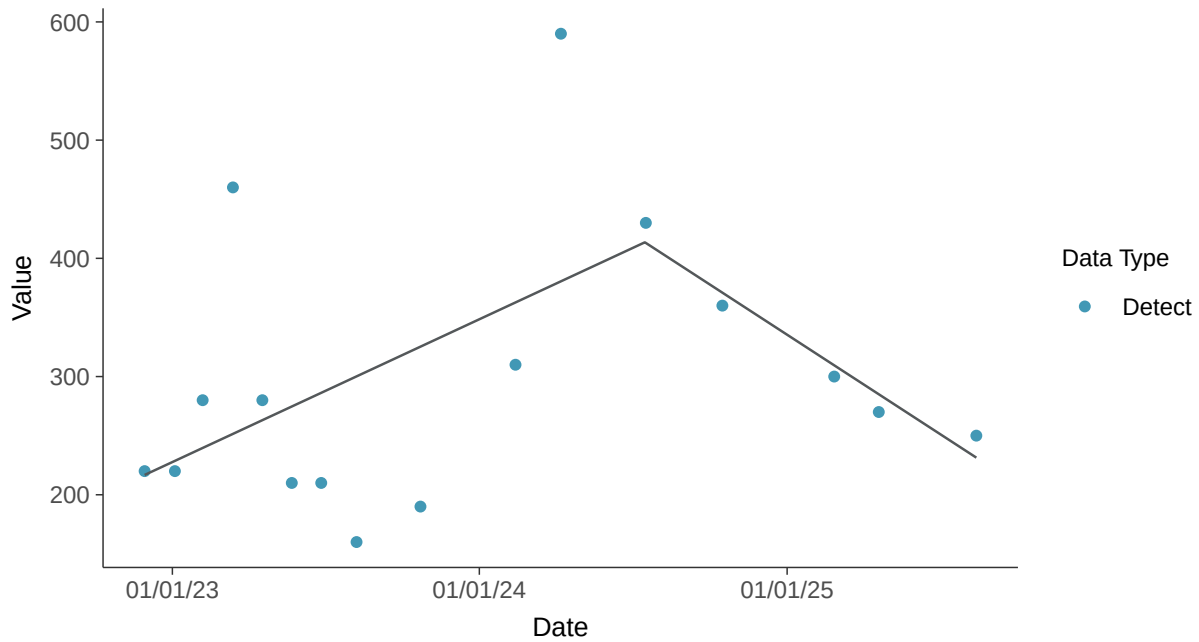
Trend Regression: Lognormal MLE

Calcium, MW-10 (mg/L)



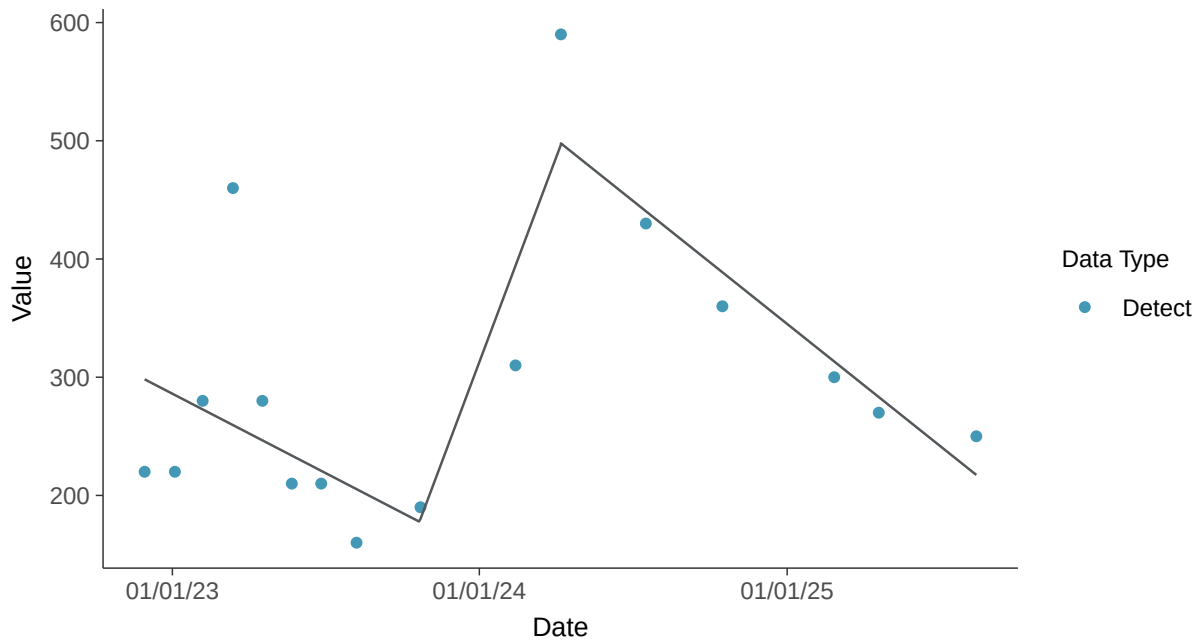
Trend Regression: Piecewise Linear-Linear

Calcium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-10 (mg/L)

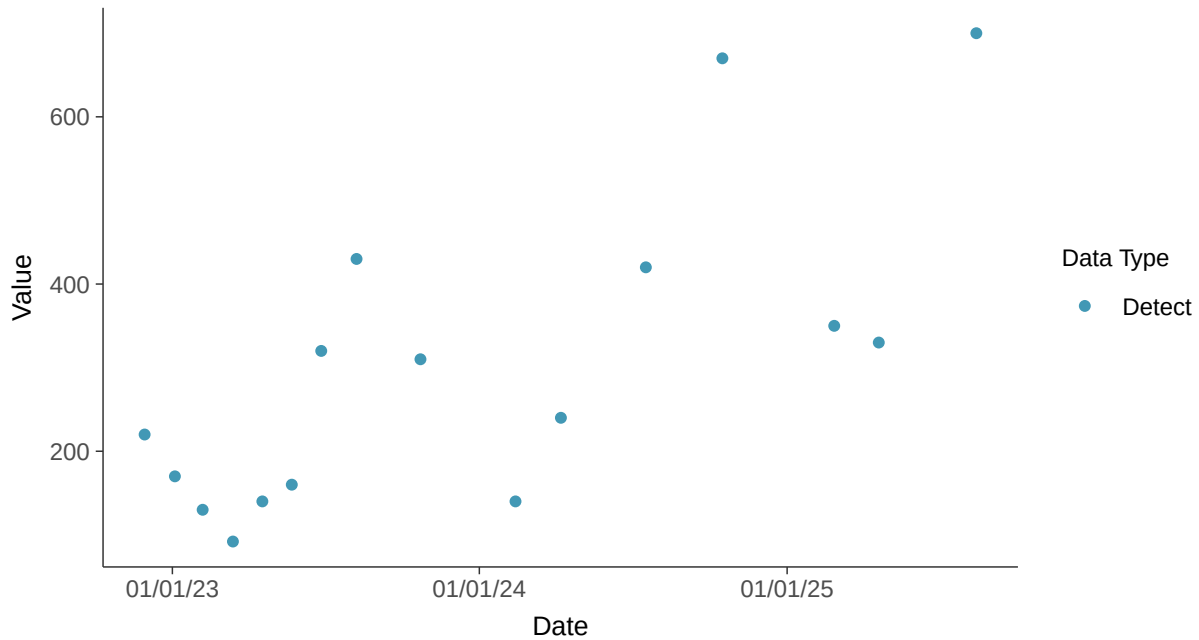


Appendix III: Chloride (as Cl), MW-10

ID: 20_3_3_108

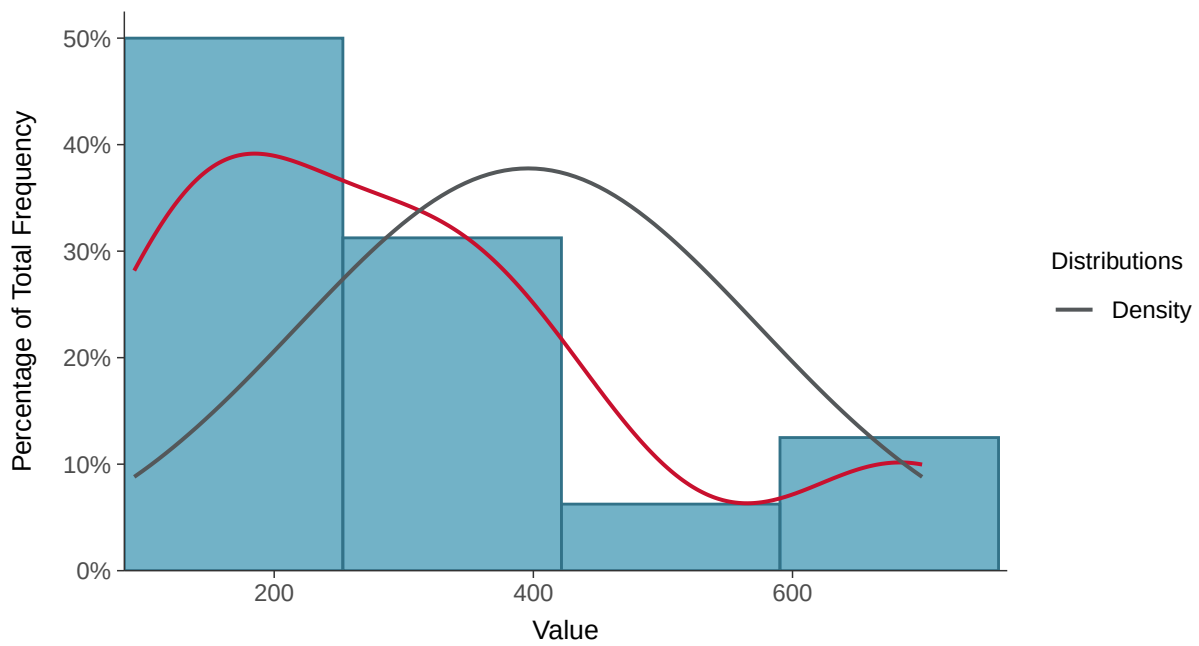
Scatter Plot

Chloride (as Cl), MW-10 (mg/L)



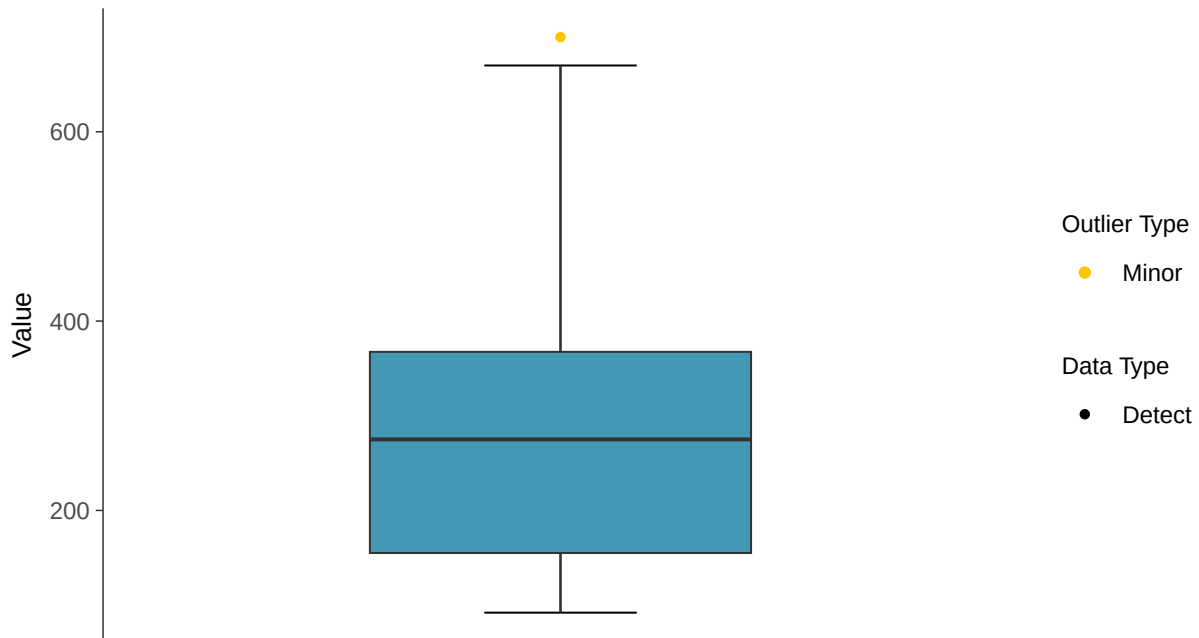
Histogram

Chloride (as Cl), MW-10 (mg/L)



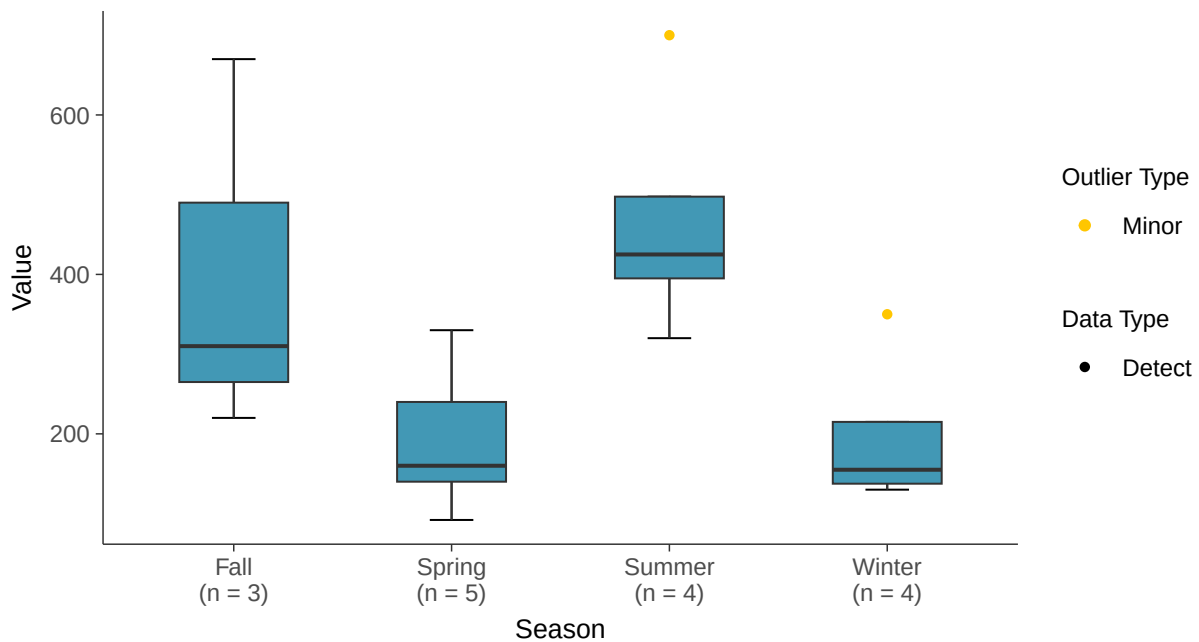
Boxplot

Chloride (as Cl), MW-10 (mg/L)



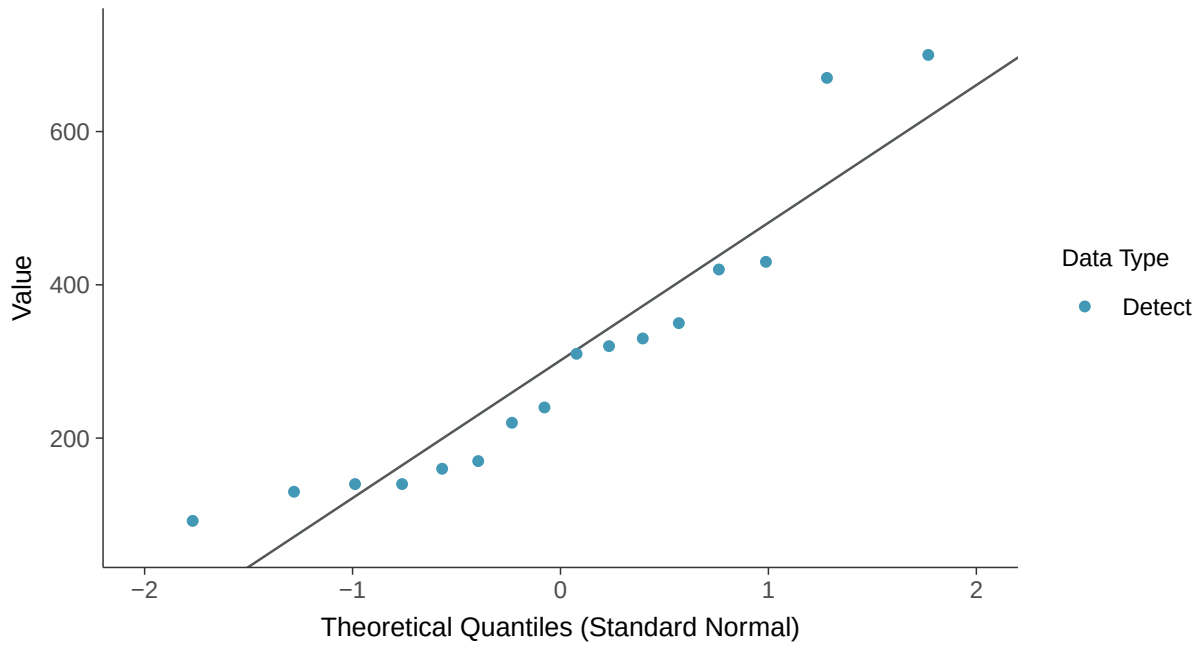
Boxplot by Season

Chloride (as Cl), MW-10 (mg/L)



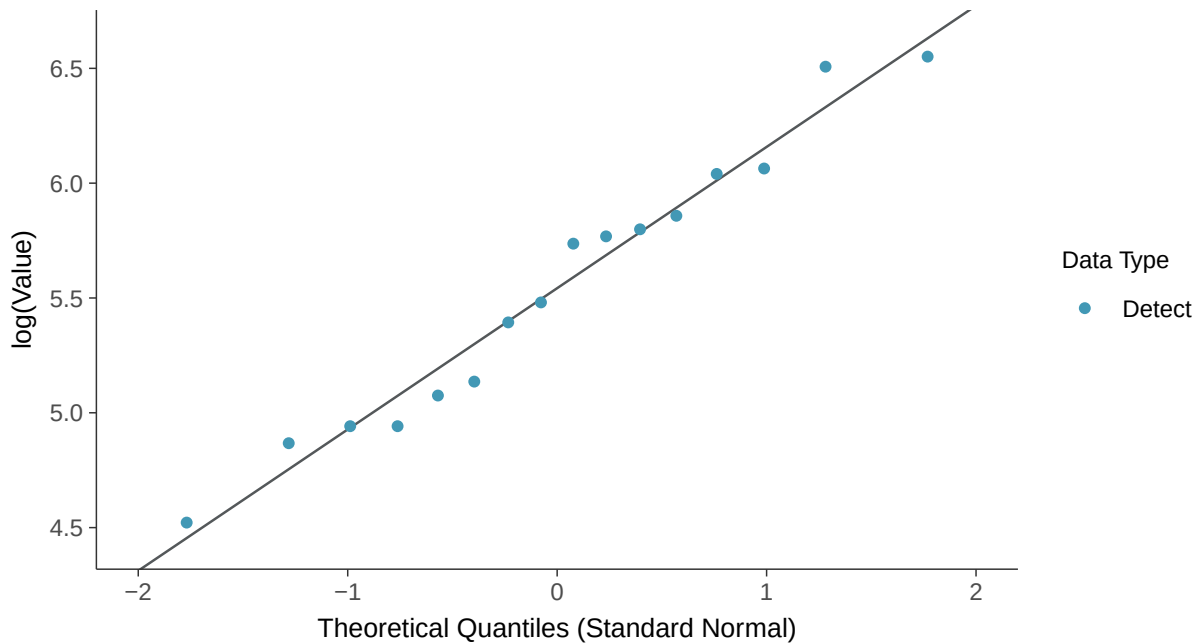
Normal Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



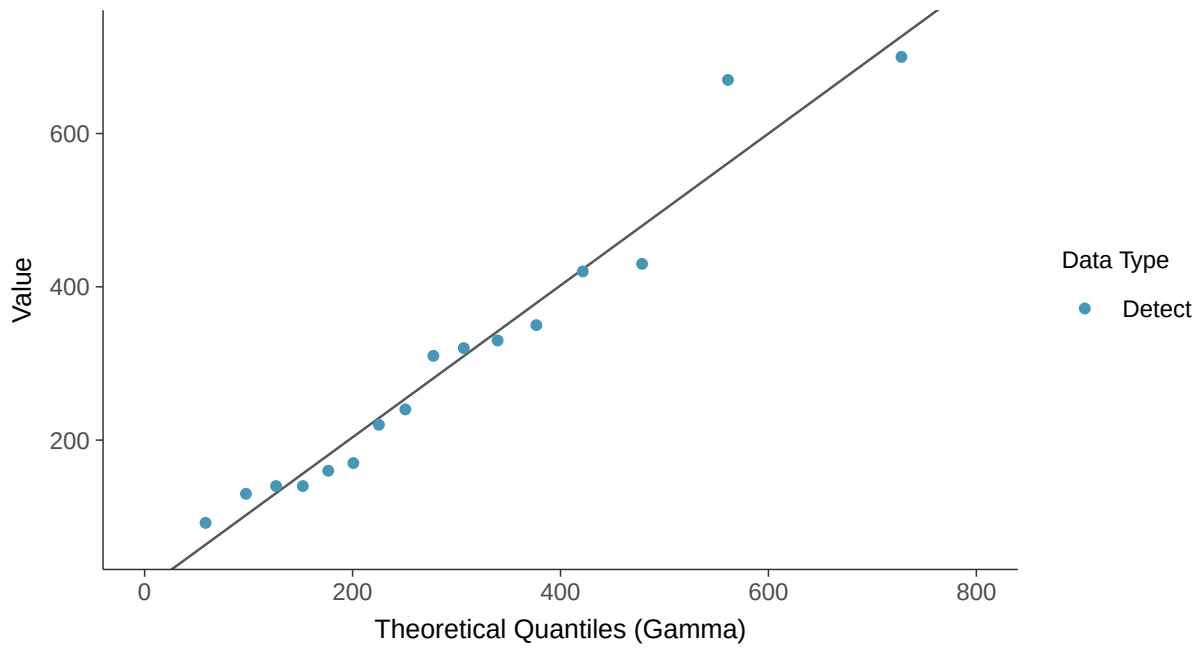
Lognormal Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



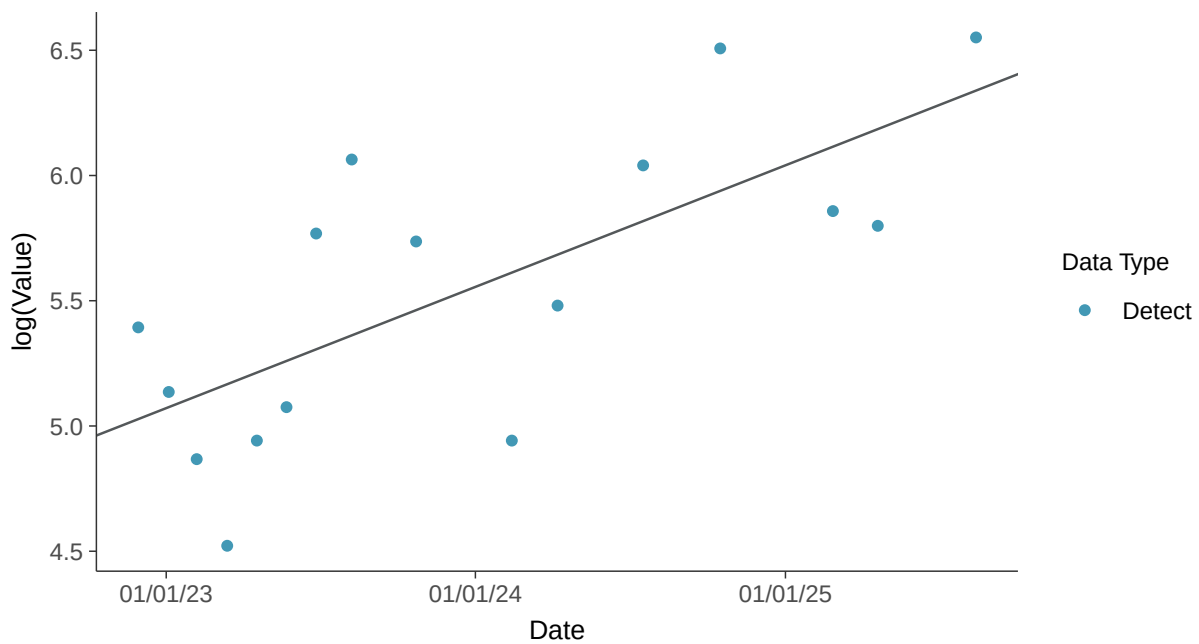
Gamma Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



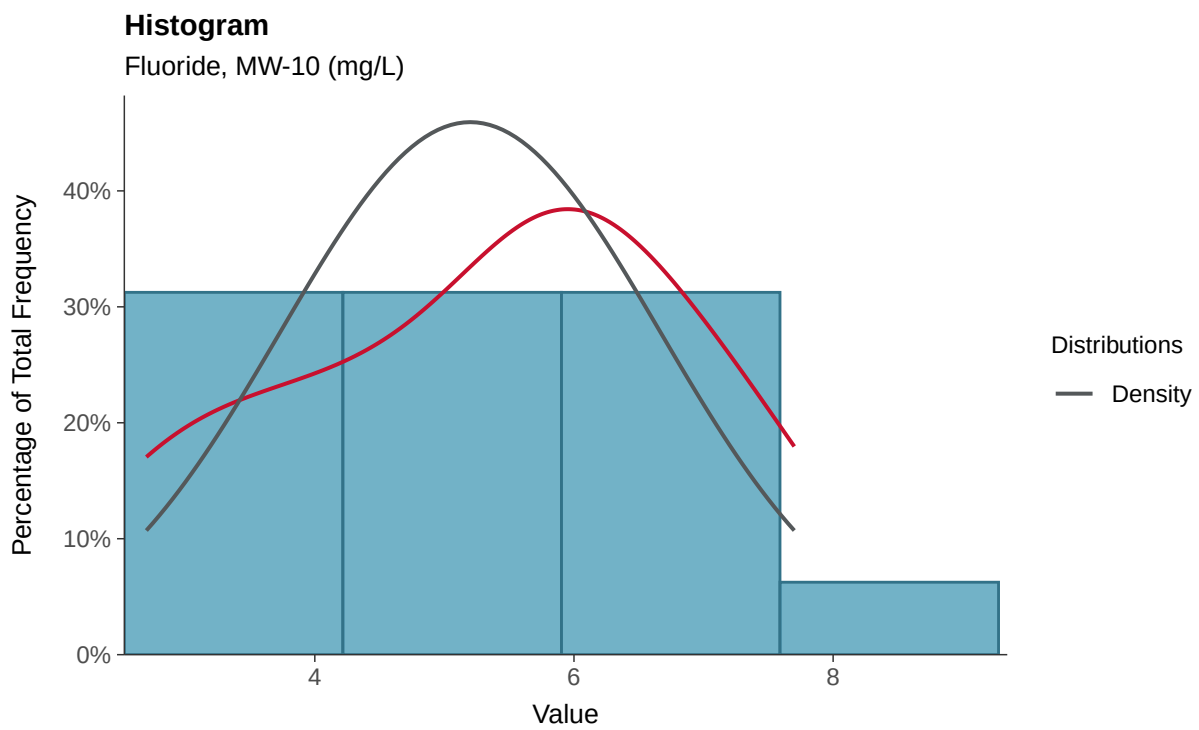
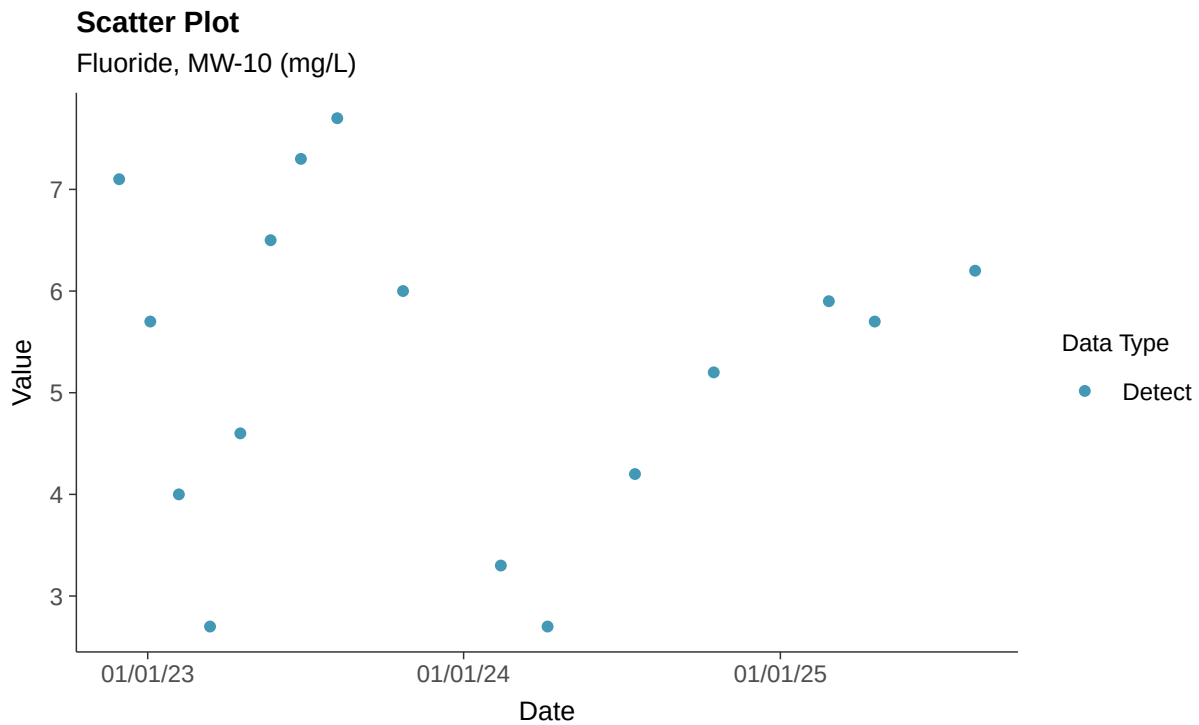
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-10 (mg/L)



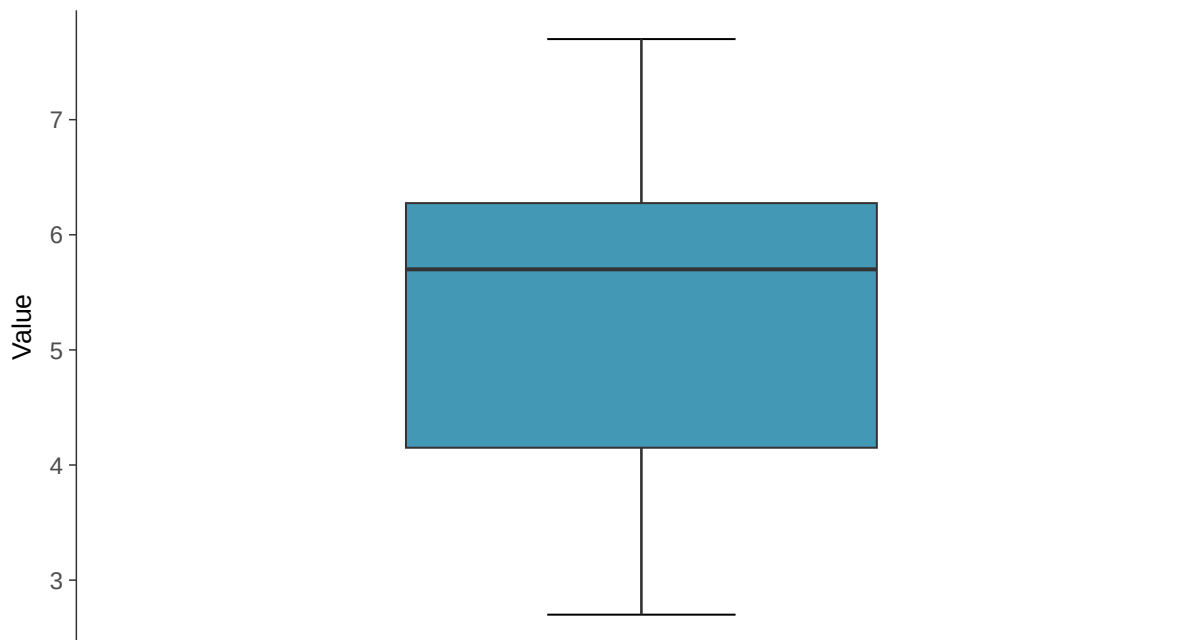
Appendix III: Fluoride, MW-10

ID: 20_3_3_112



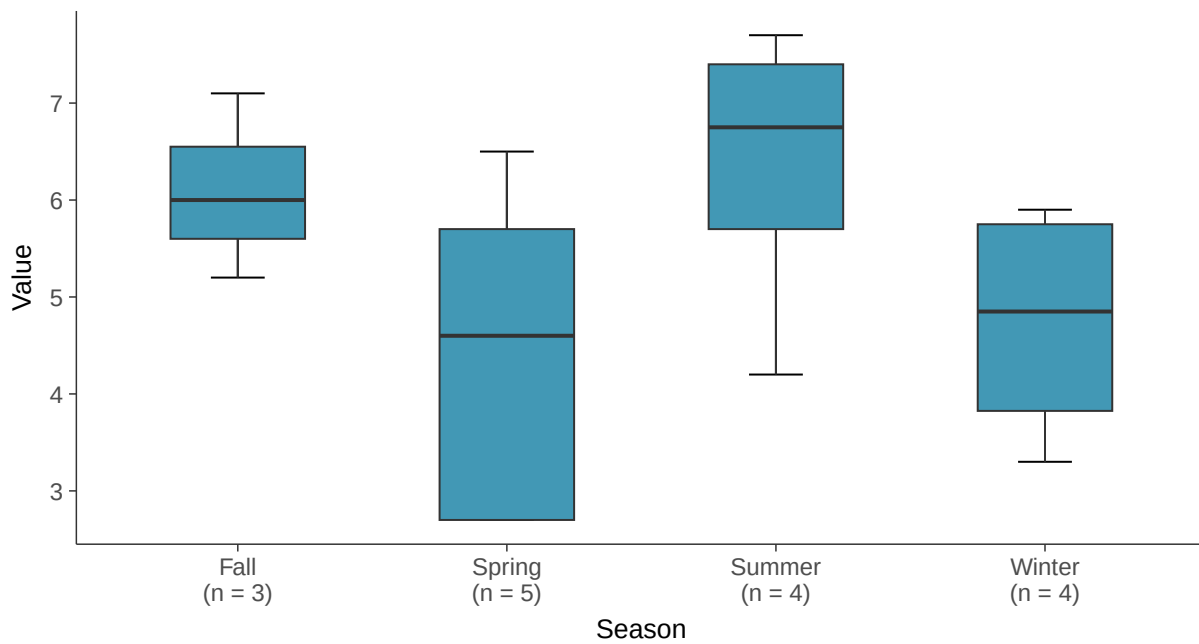
Boxplot

Fluoride, MW-10 (mg/L)



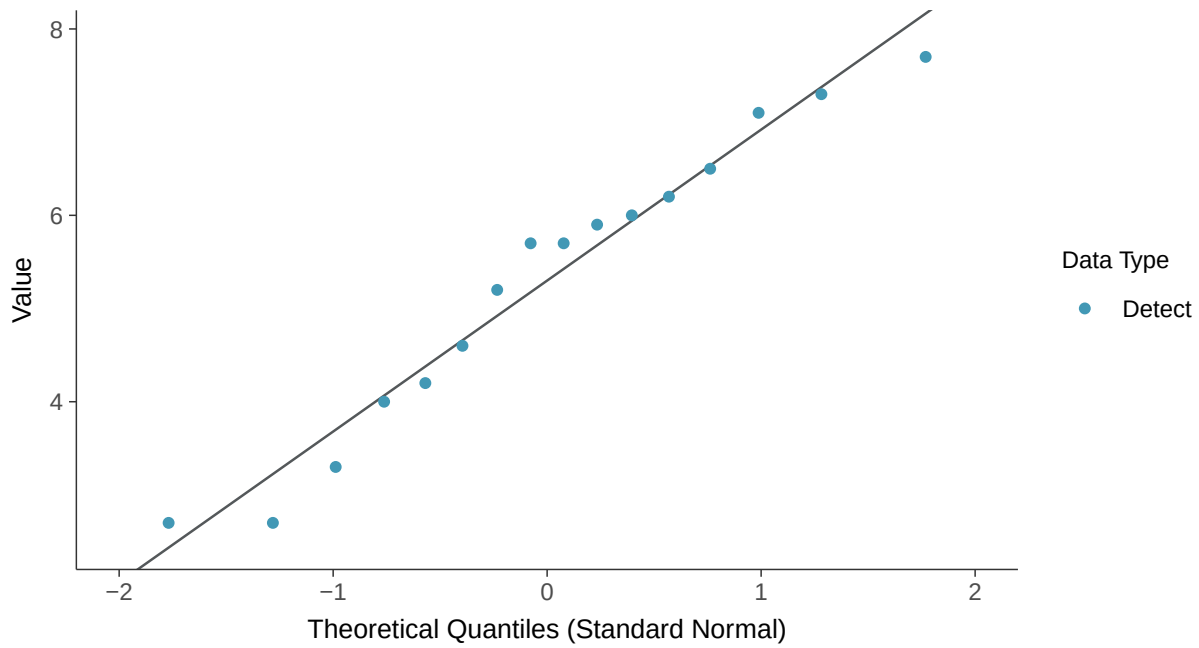
Boxplot by Season

Fluoride, MW-10 (mg/L)



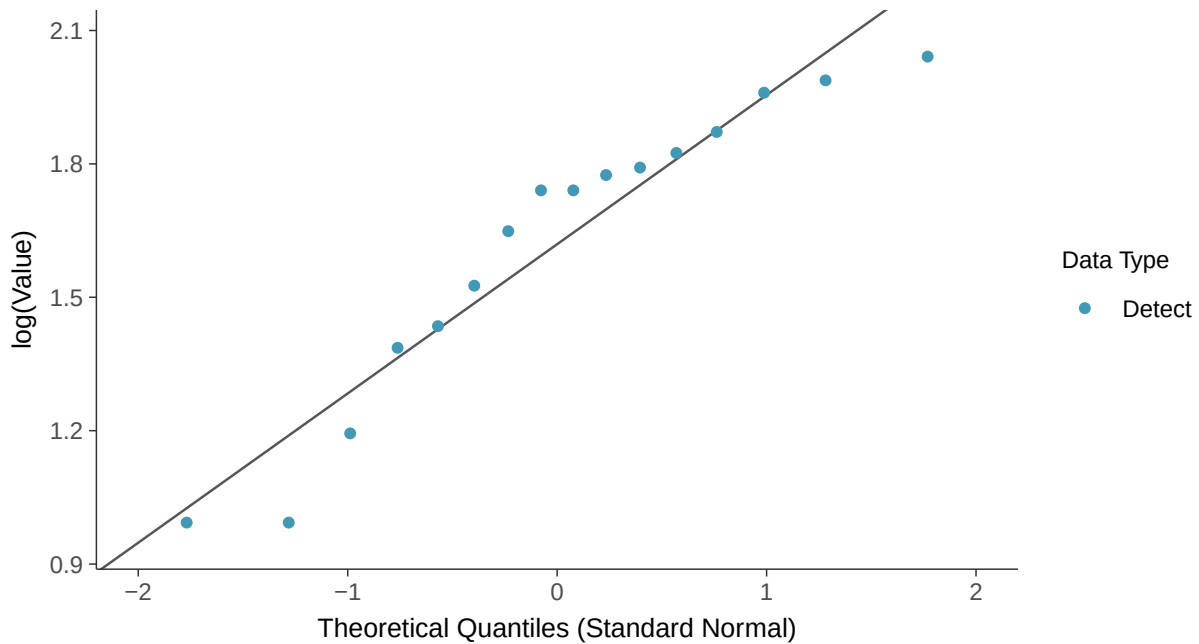
Normal Q-Q plot

Fluoride, MW-10 (mg/L)



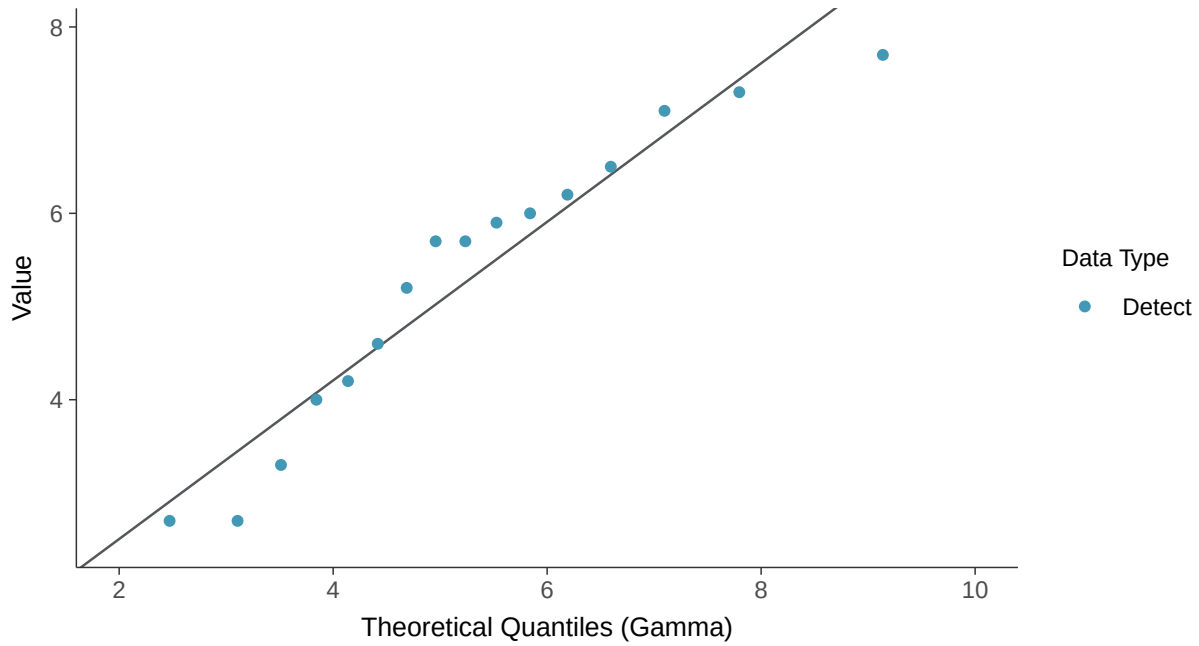
Lognormal Q-Q plot

Fluoride, MW-10 (mg/L)



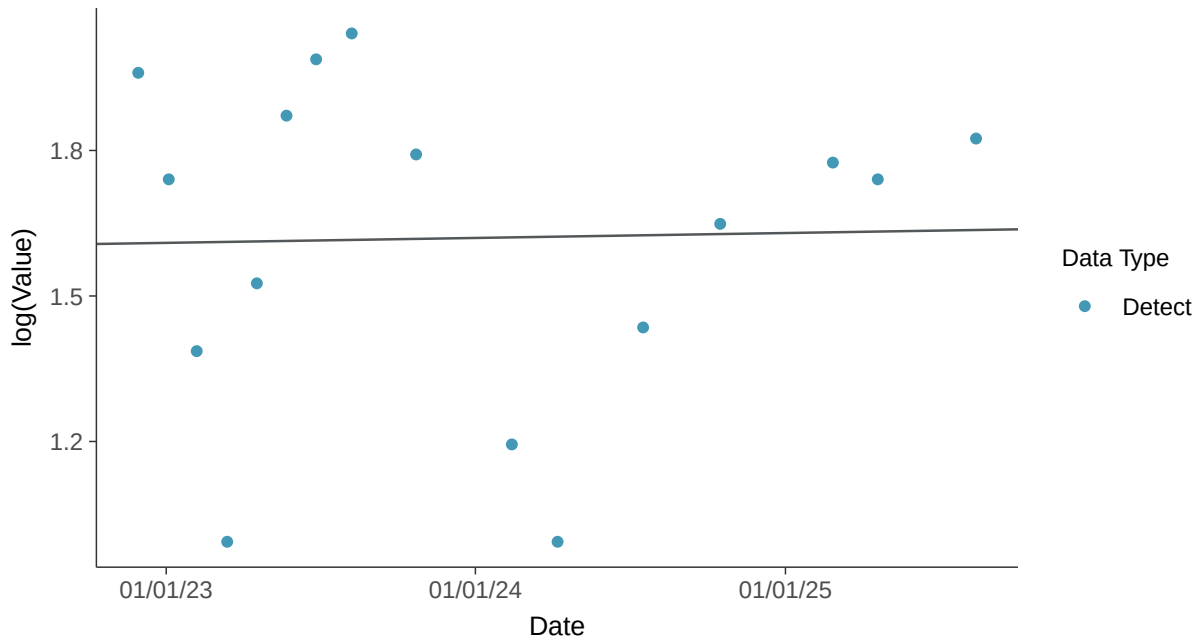
Gamma Q-Q plot

Fluoride, MW-10 (mg/L)



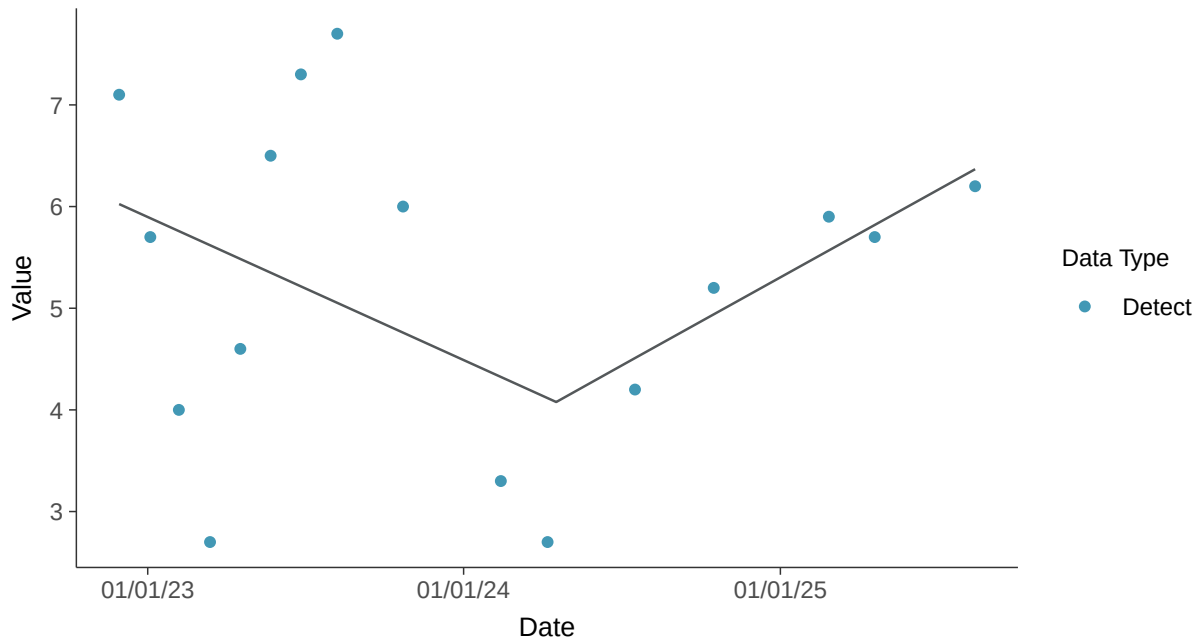
Trend Regression: Lognormal MLE

Fluoride, MW-10 (mg/L)



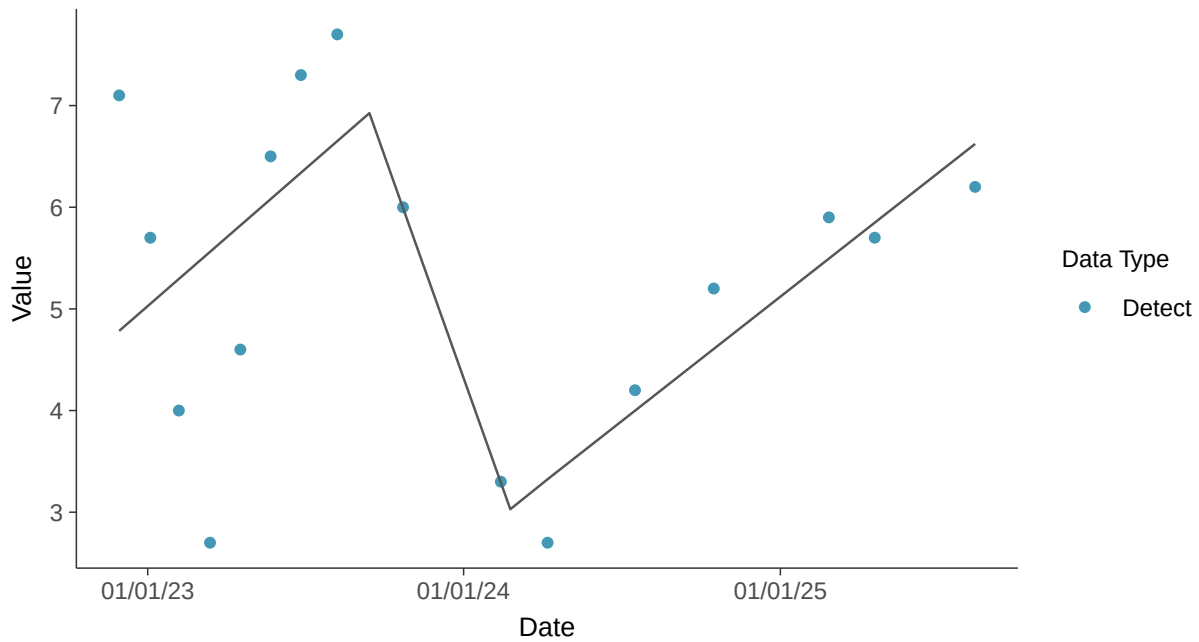
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-10 (mg/L)



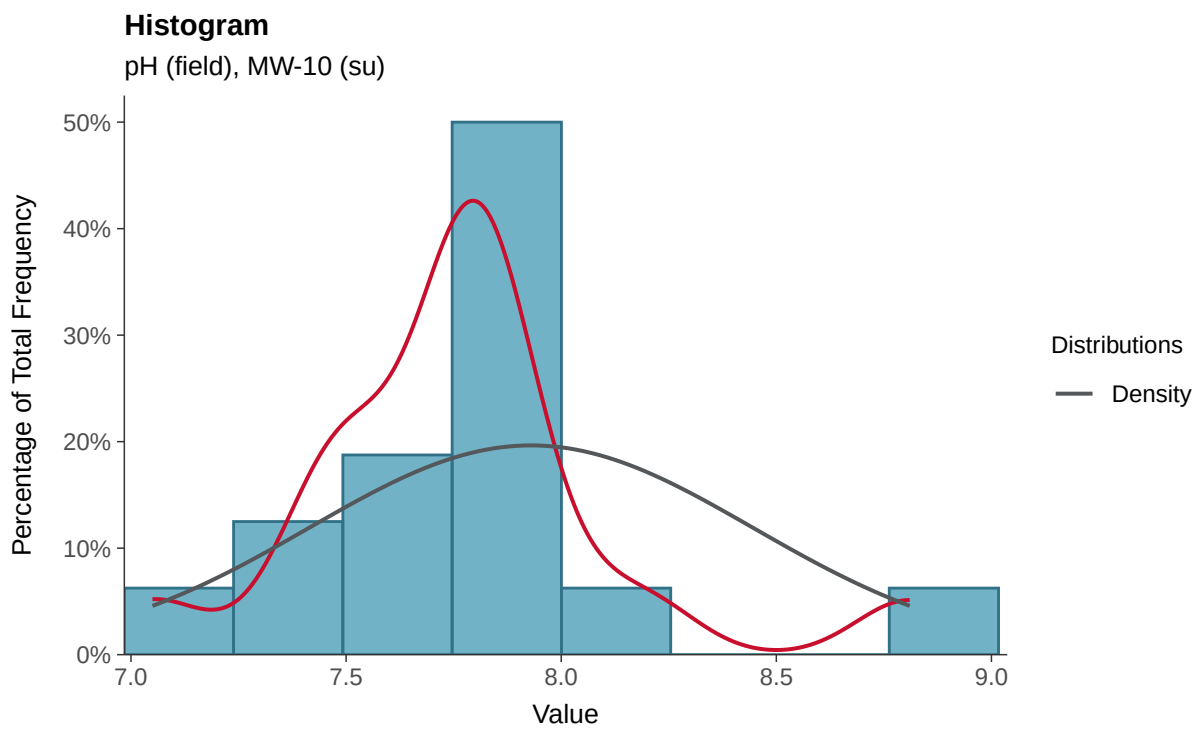
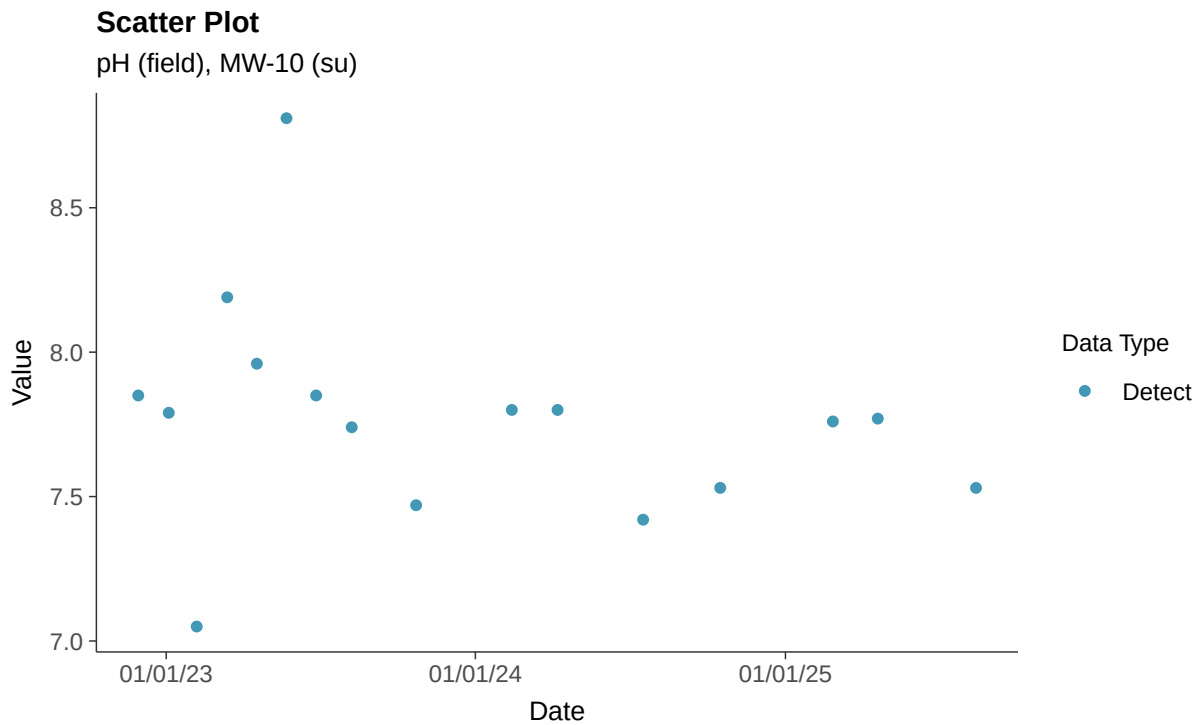
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-10 (mg/L)



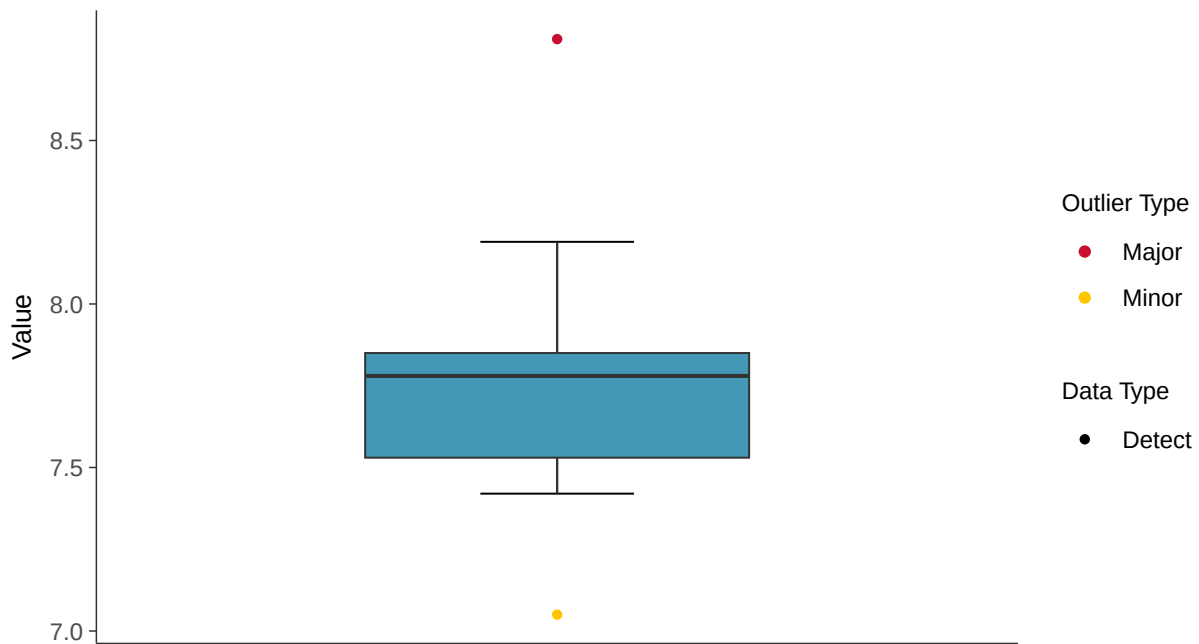
Appendix III: pH (field), MW-10

ID: 20_3_3_120



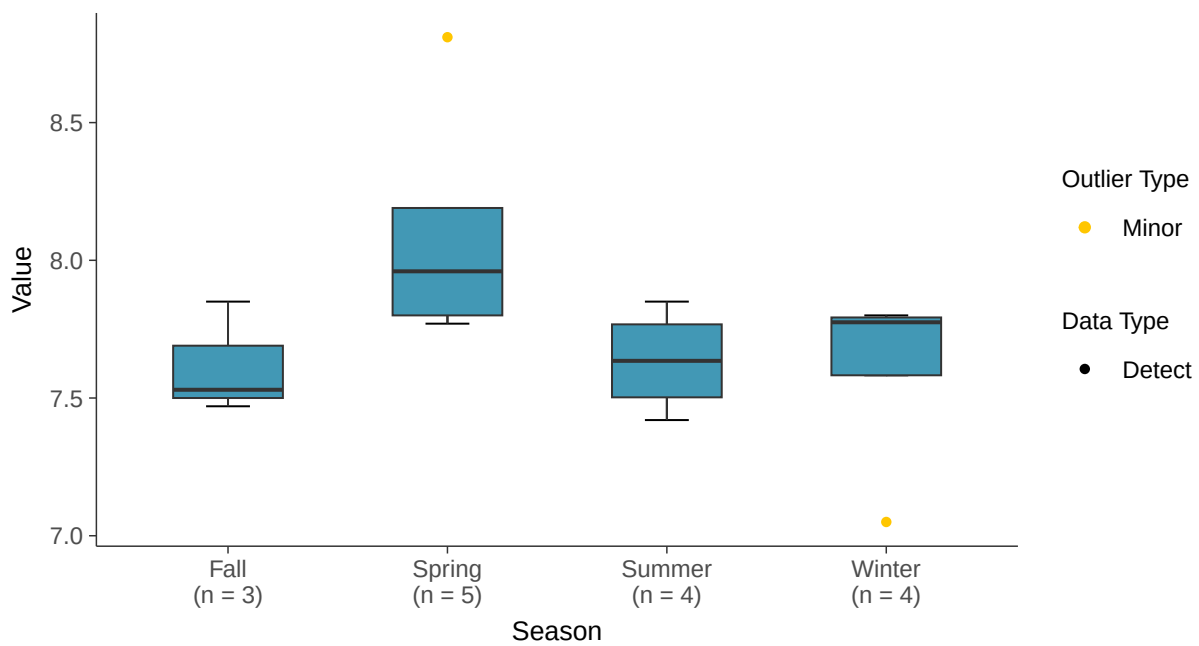
Boxplot

pH (field), MW-10 (su)

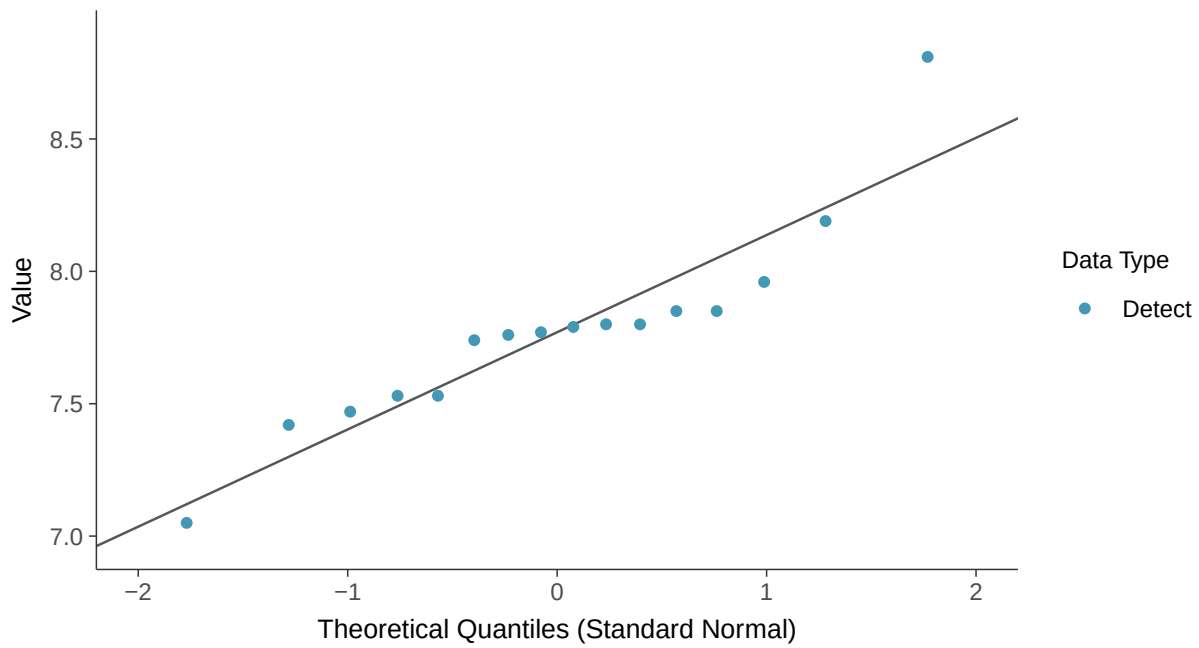


Boxplot by Season

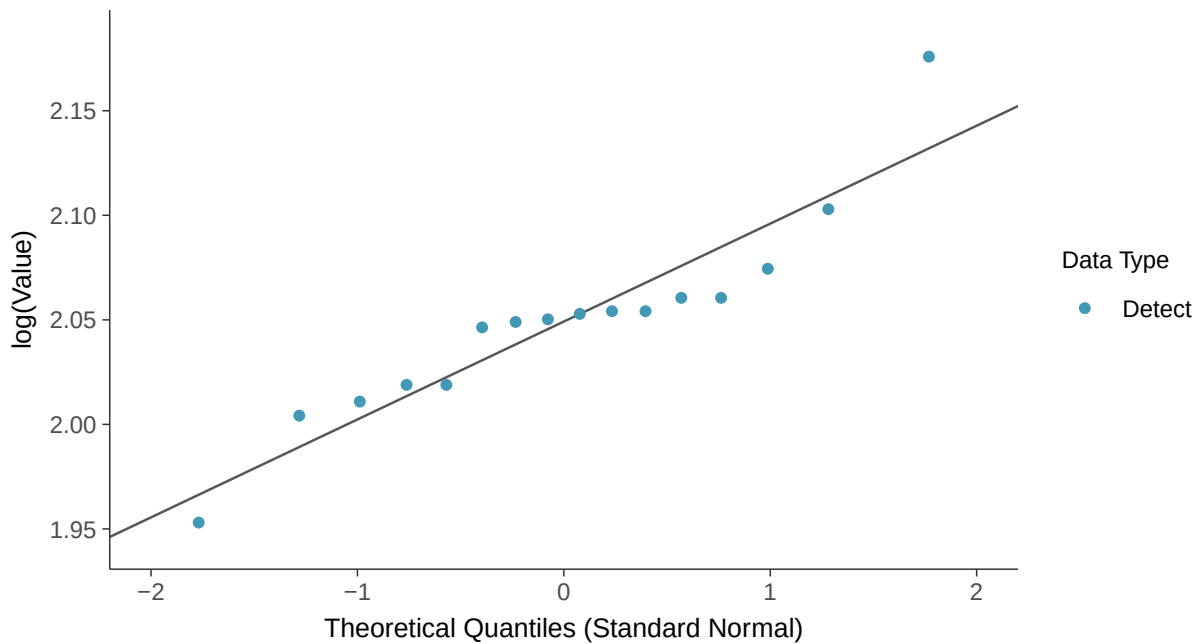
pH (field), MW-10 (su)



Normal Q-Q plot
pH (field), MW-10 (su)

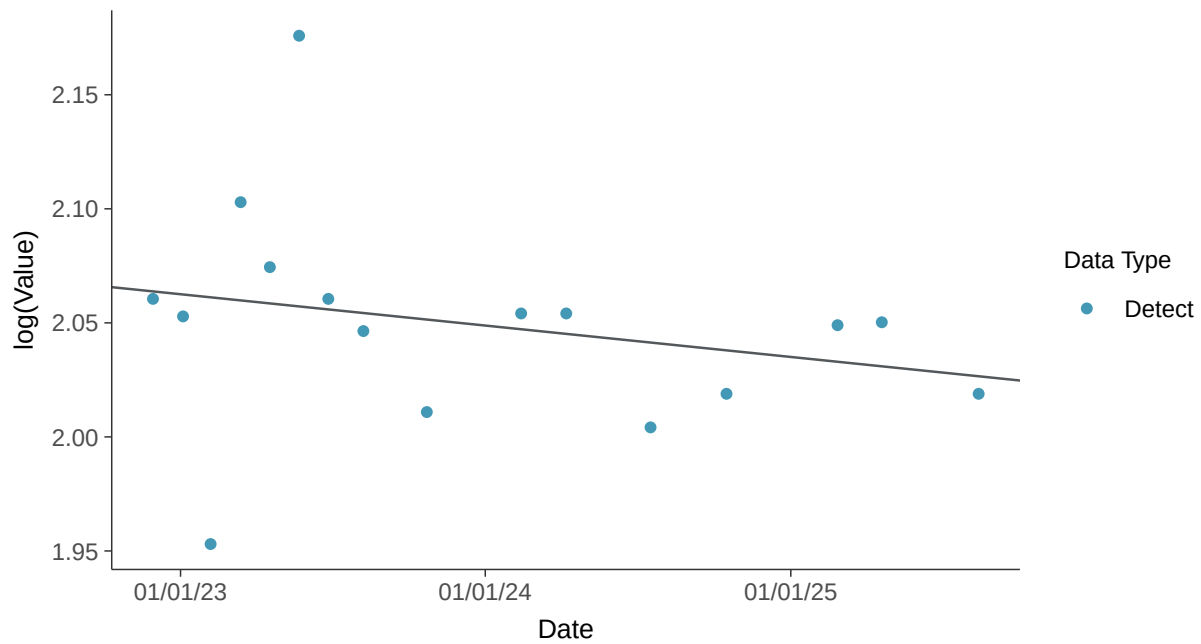


Lognormal Q-Q plot
pH (field), MW-10 (su)



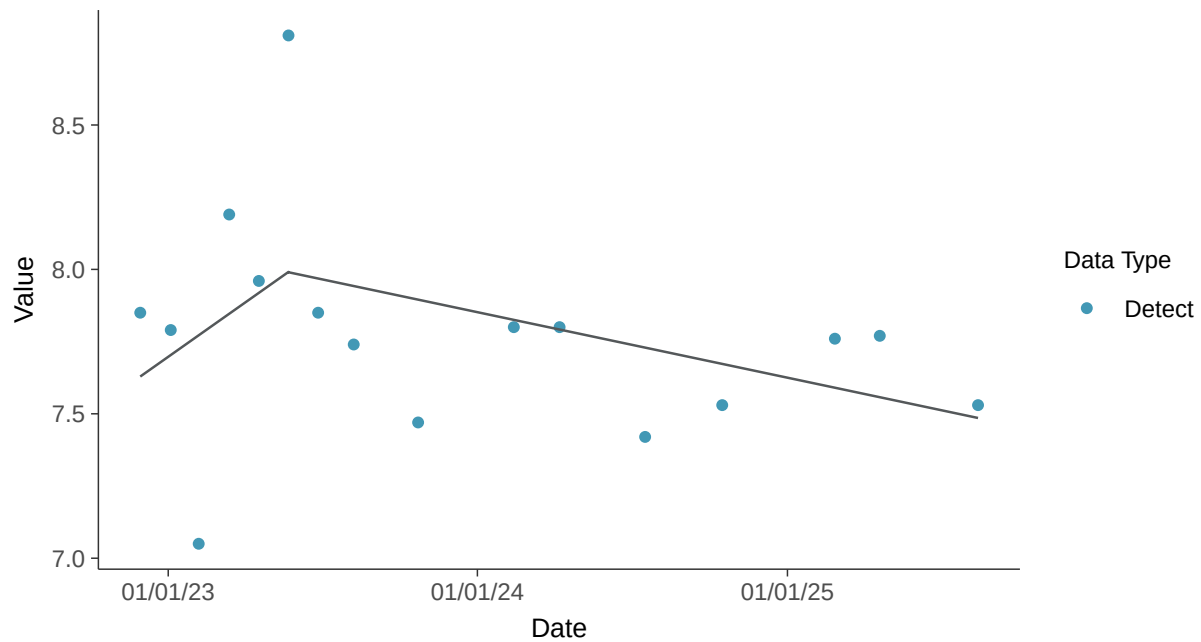
Trend Regression: Lognormal MLE

pH (field), MW-10 (su)



Trend Regression: Piecewise Linear-Linear

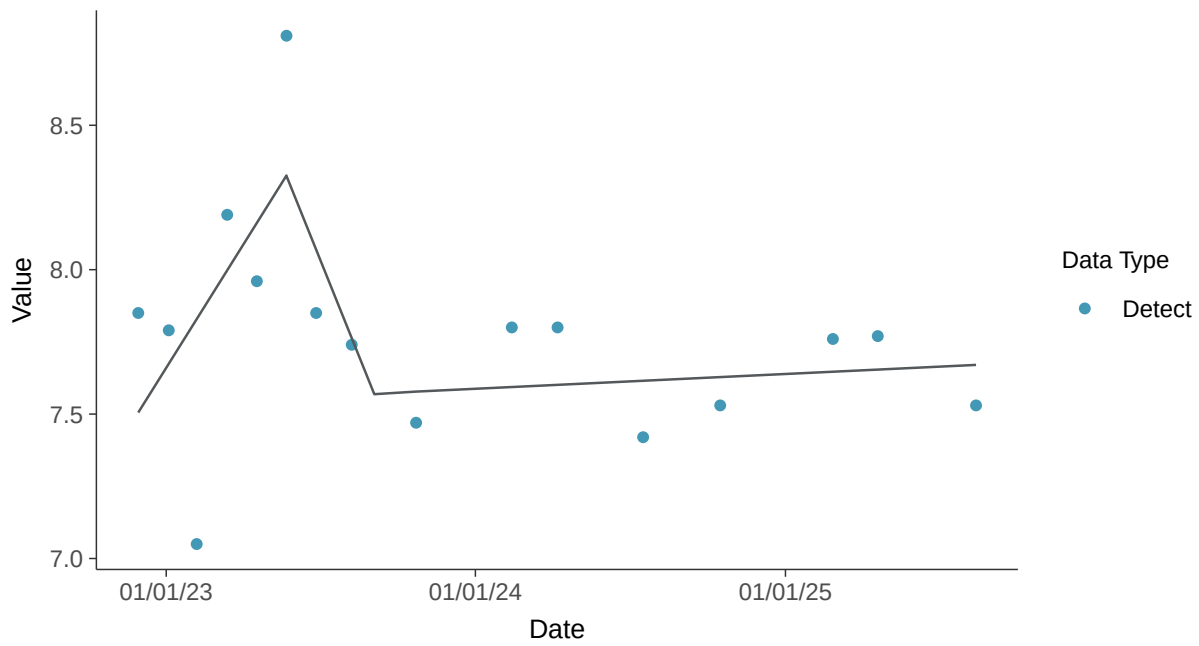
pH (field), MW-10 (su)





Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-10 (su)

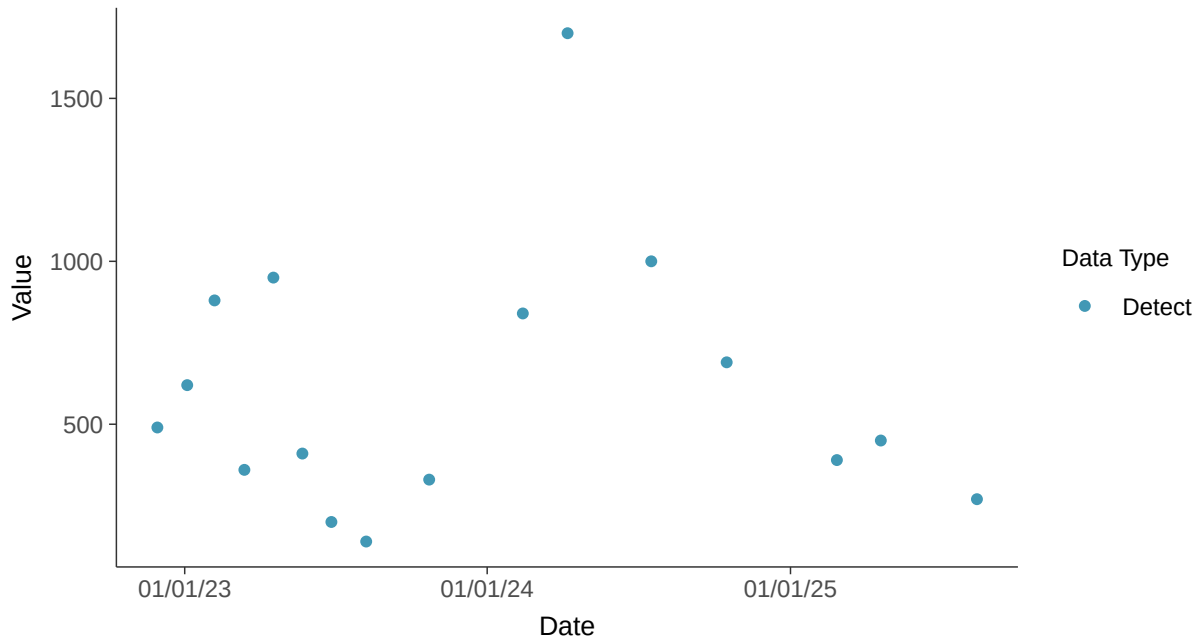


Appendix III: Sulfate (as SO₄), MW-10

ID: 20_3_3_124

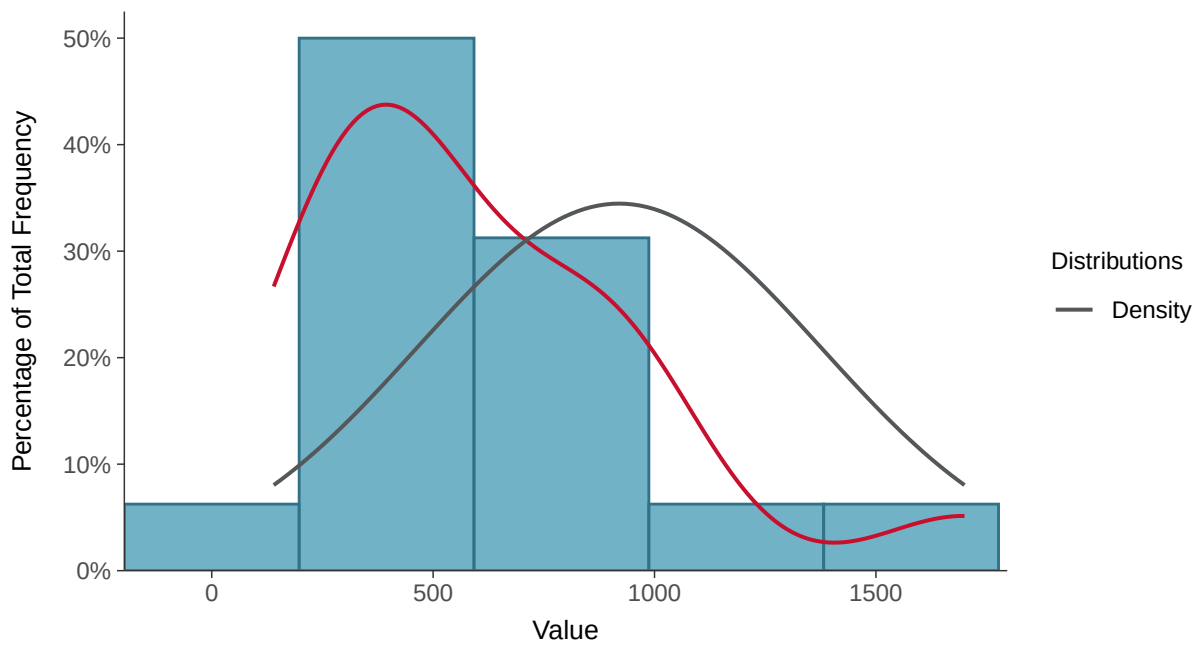
Scatter Plot

Sulfate (as SO₄), MW-10 (mg/L)



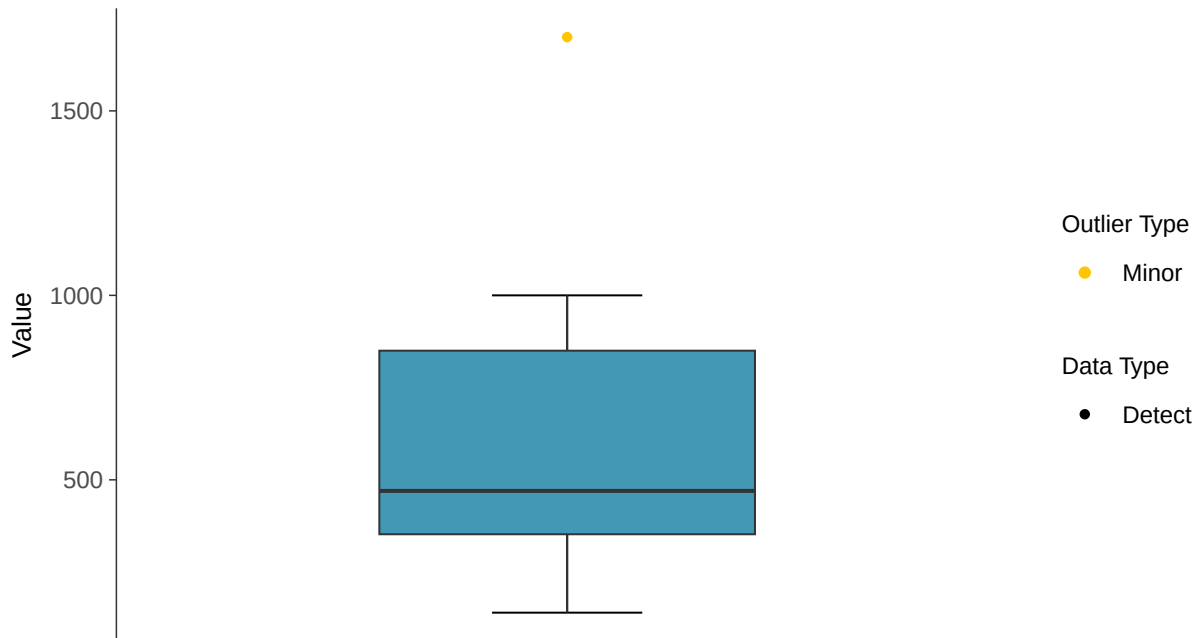
Histogram

Sulfate (as SO₄), MW-10 (mg/L)



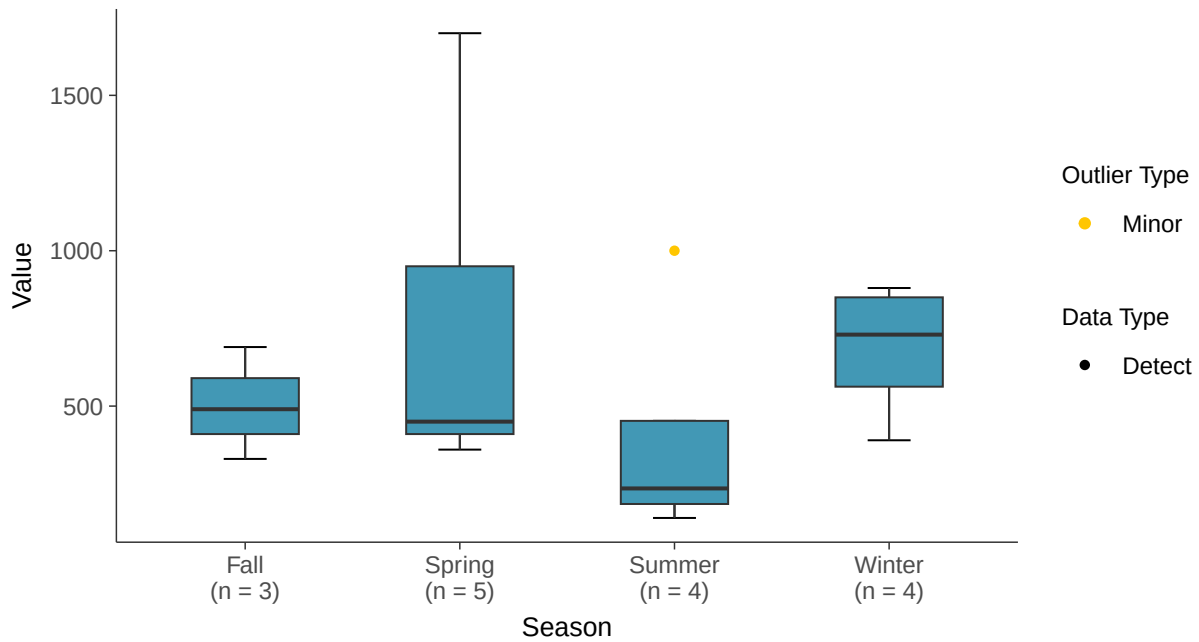
Boxplot

Sulfate (as SO₄), MW-10 (mg/L)



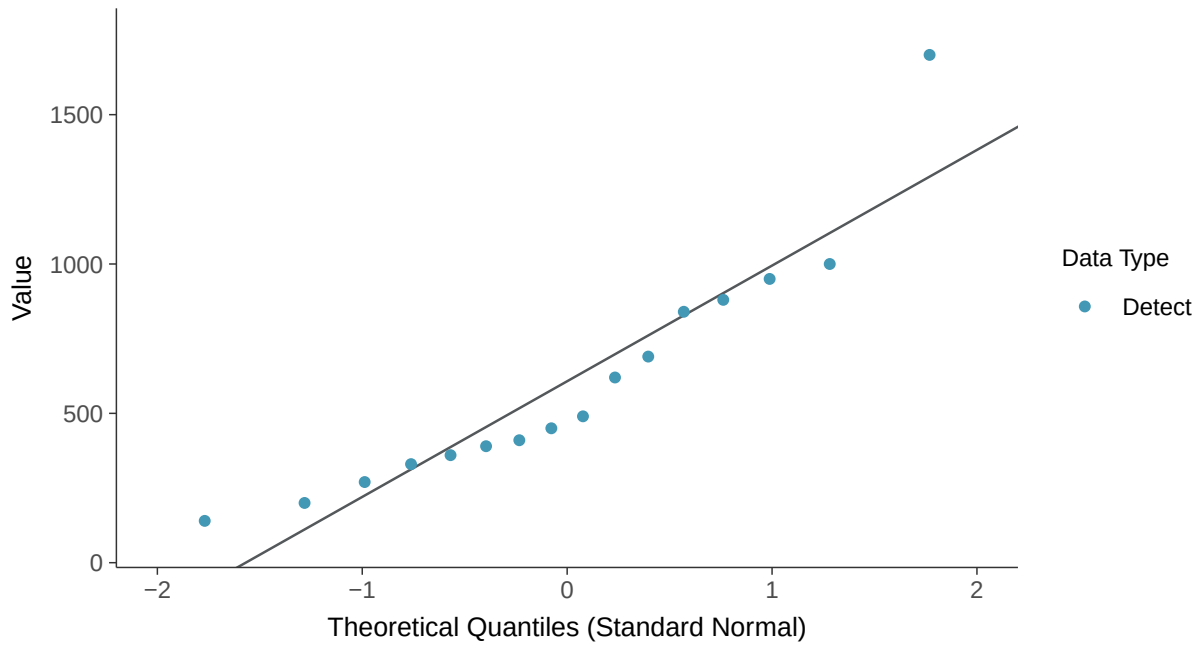
Boxplot by Season

Sulfate (as SO₄), MW-10 (mg/L)



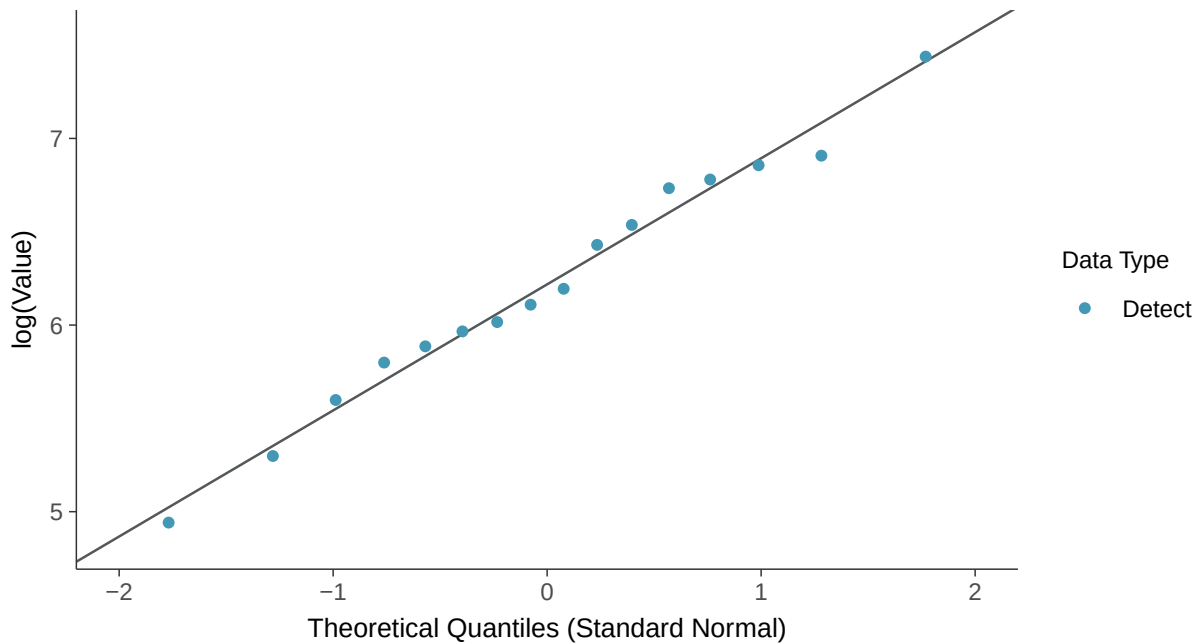
Normal Q-Q plot

Sulfate (as SO₄), MW-10 (mg/L)



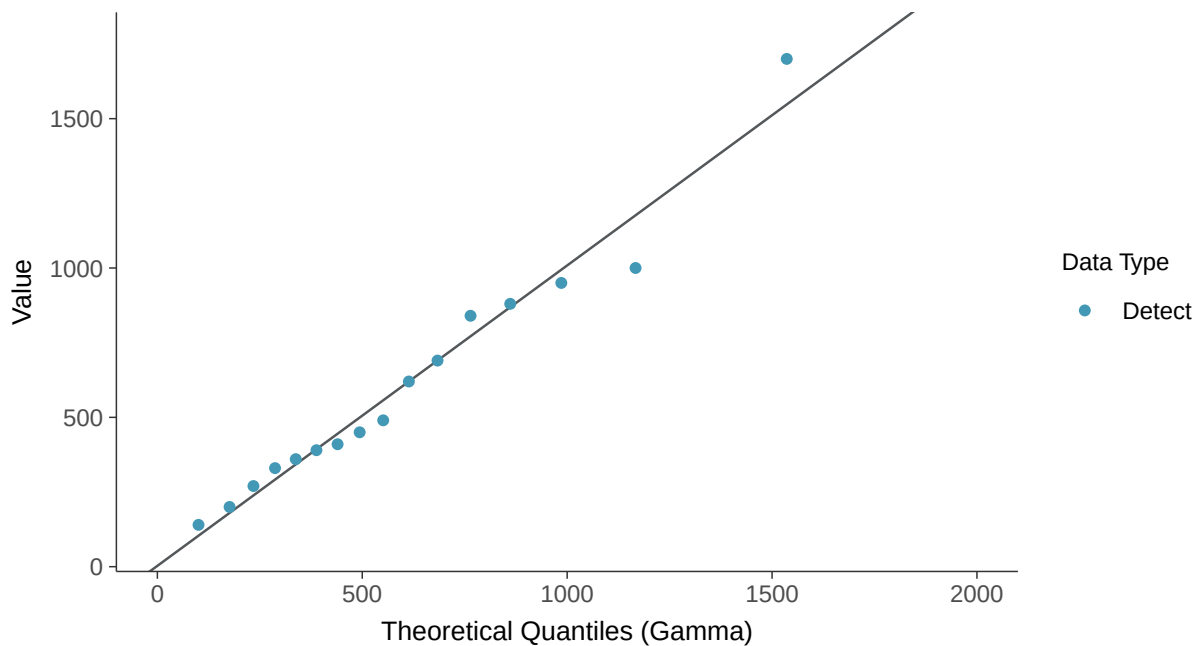
Lognormal Q-Q plot

Sulfate (as SO₄), MW-10 (mg/L)



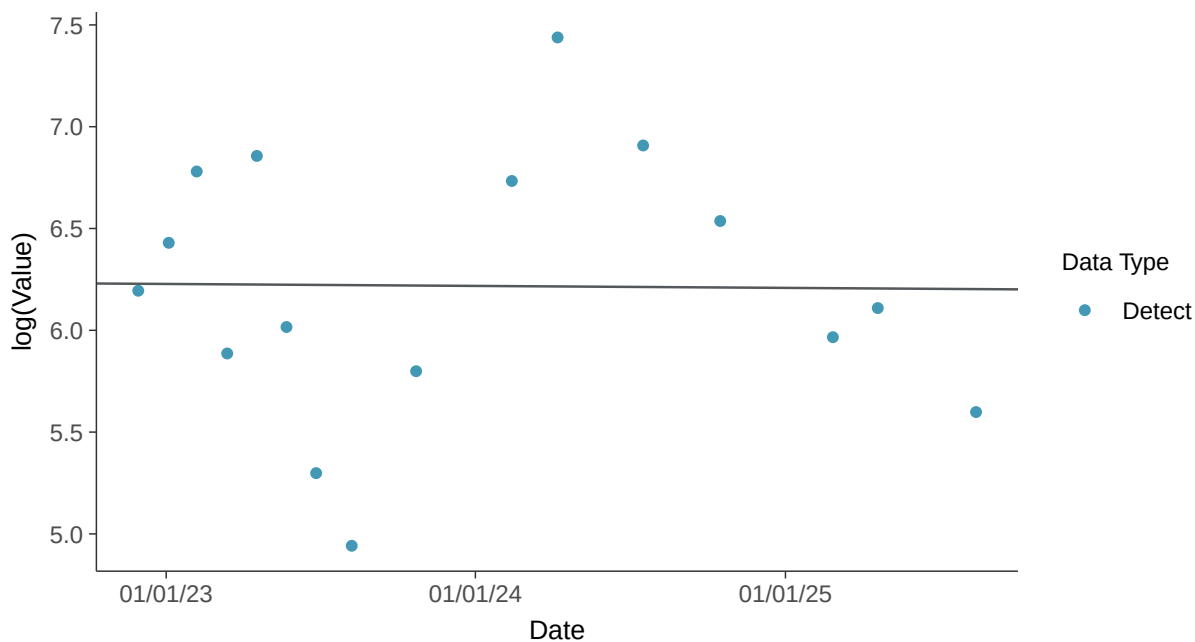
Gamma Q-Q plot

Sulfate (as SO₄), MW-10 (mg/L)



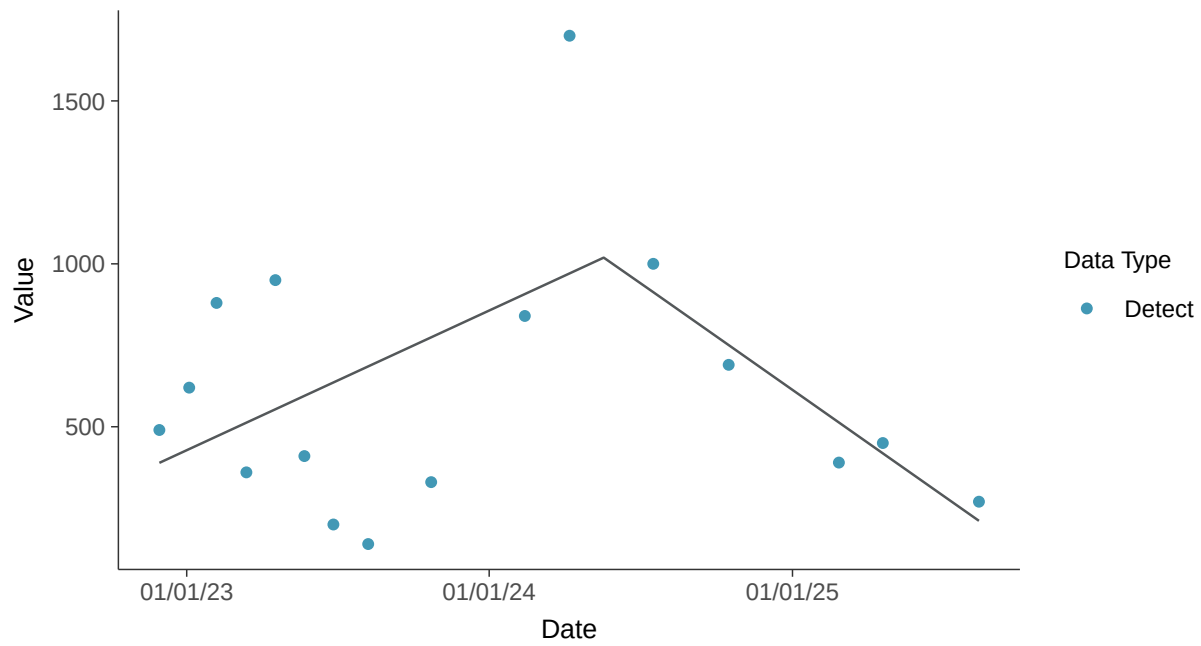
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-10 (mg/L)

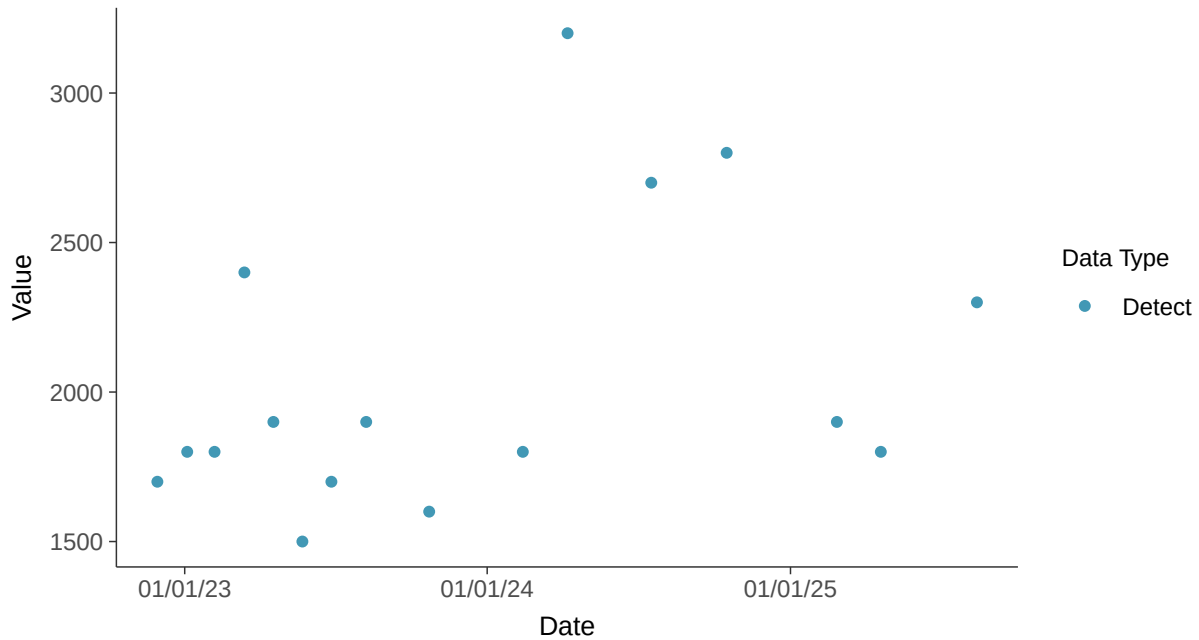


Appendix III: Total Dissolved Solids, MW-10

ID: 20_3_3_126

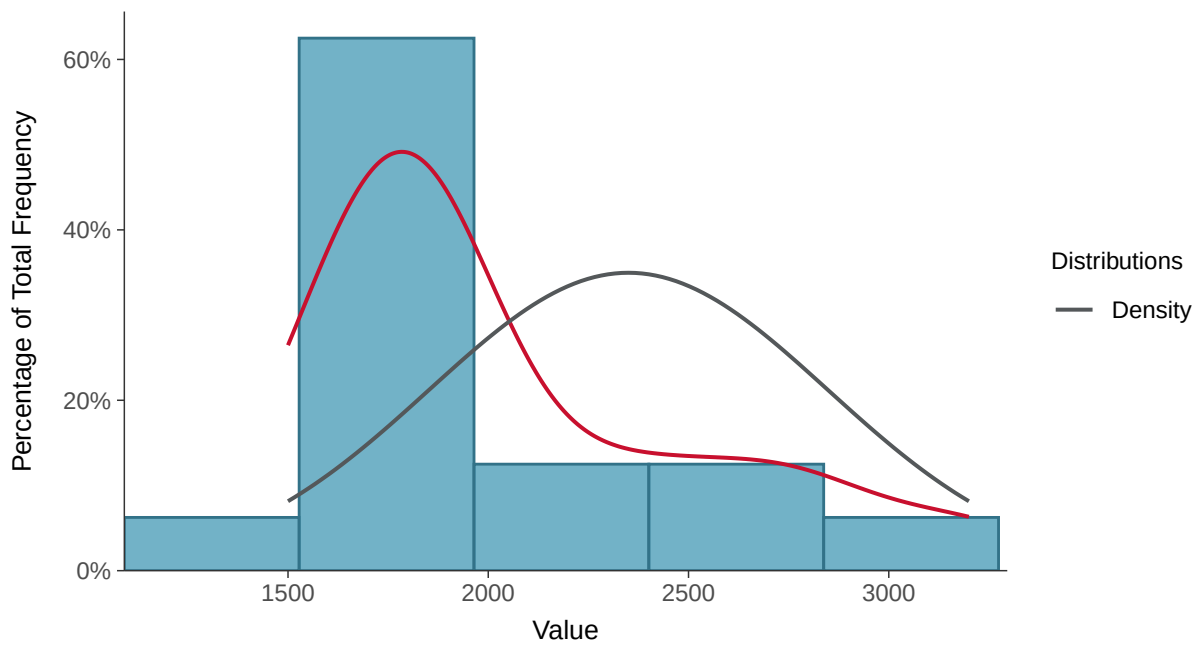
Scatter Plot

Total Dissolved Solids, MW-10 (mg/L)



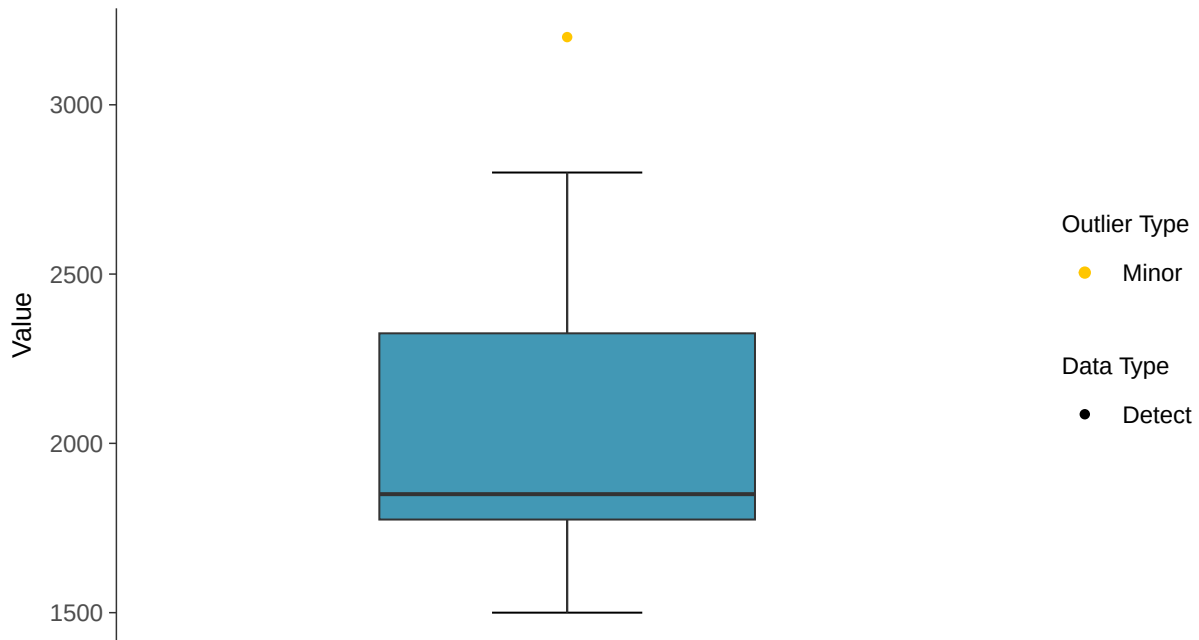
Histogram

Total Dissolved Solids, MW-10 (mg/L)



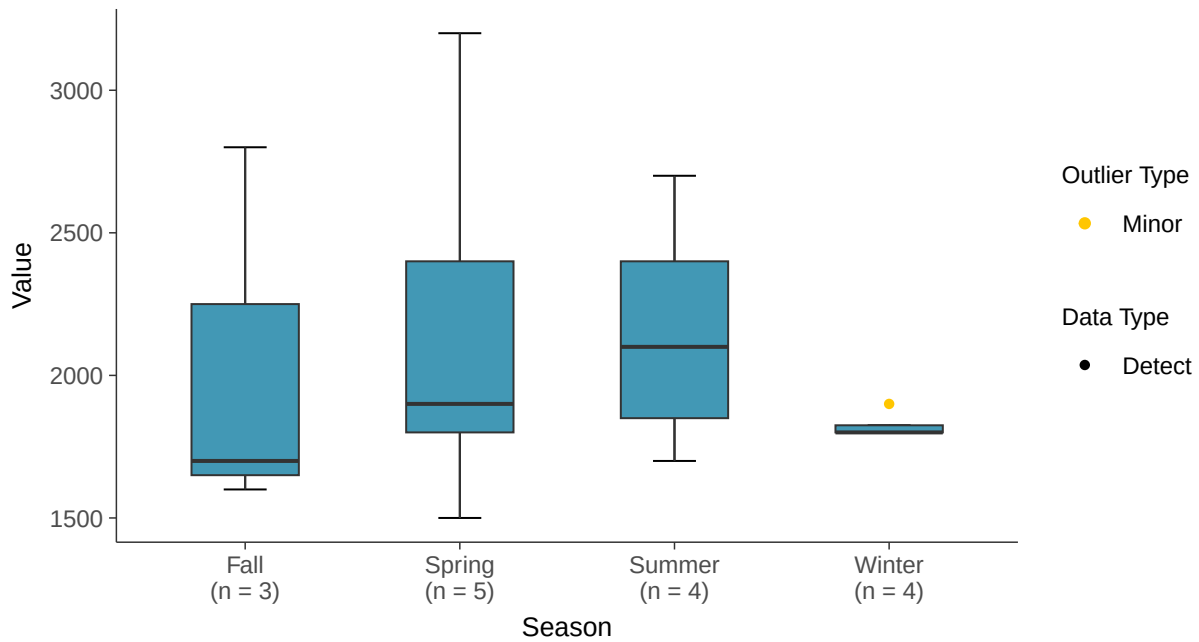
Boxplot

Total Dissolved Solids, MW-10 (mg/L)



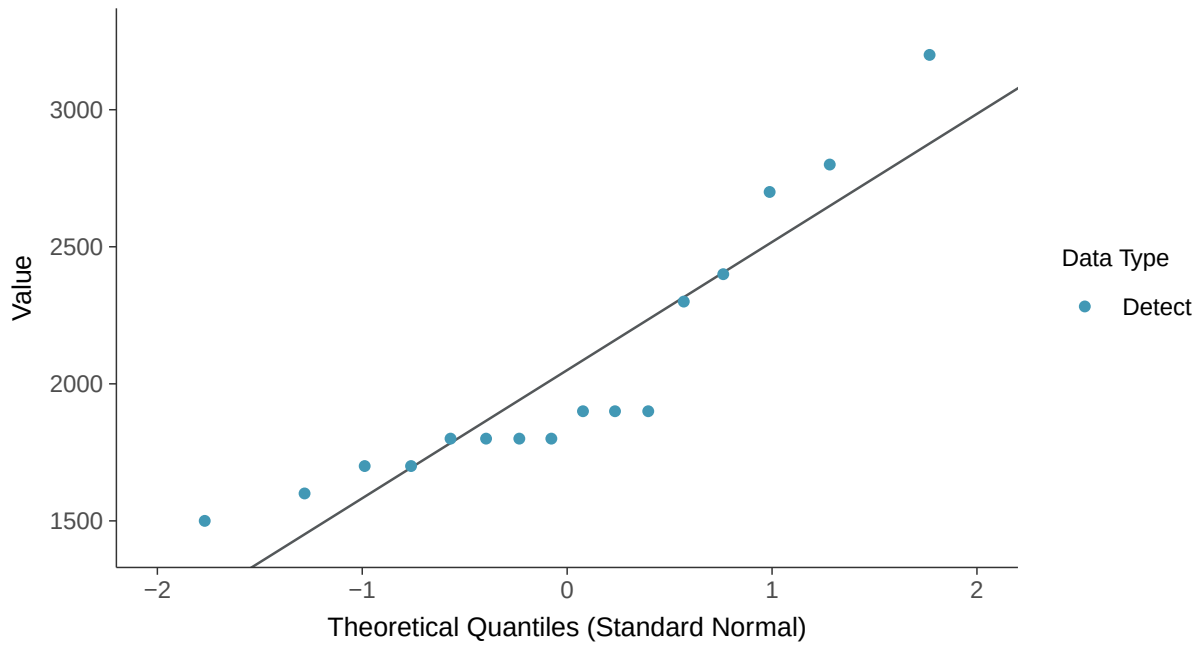
Boxplot by Season

Total Dissolved Solids, MW-10 (mg/L)



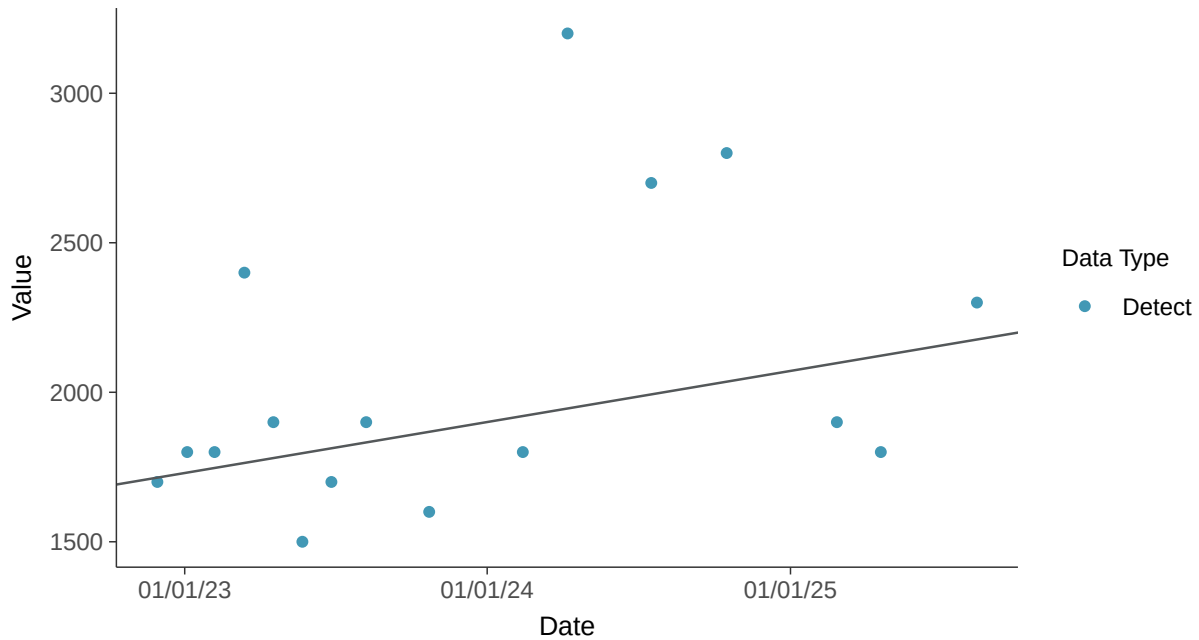
Normal Q-Q plot

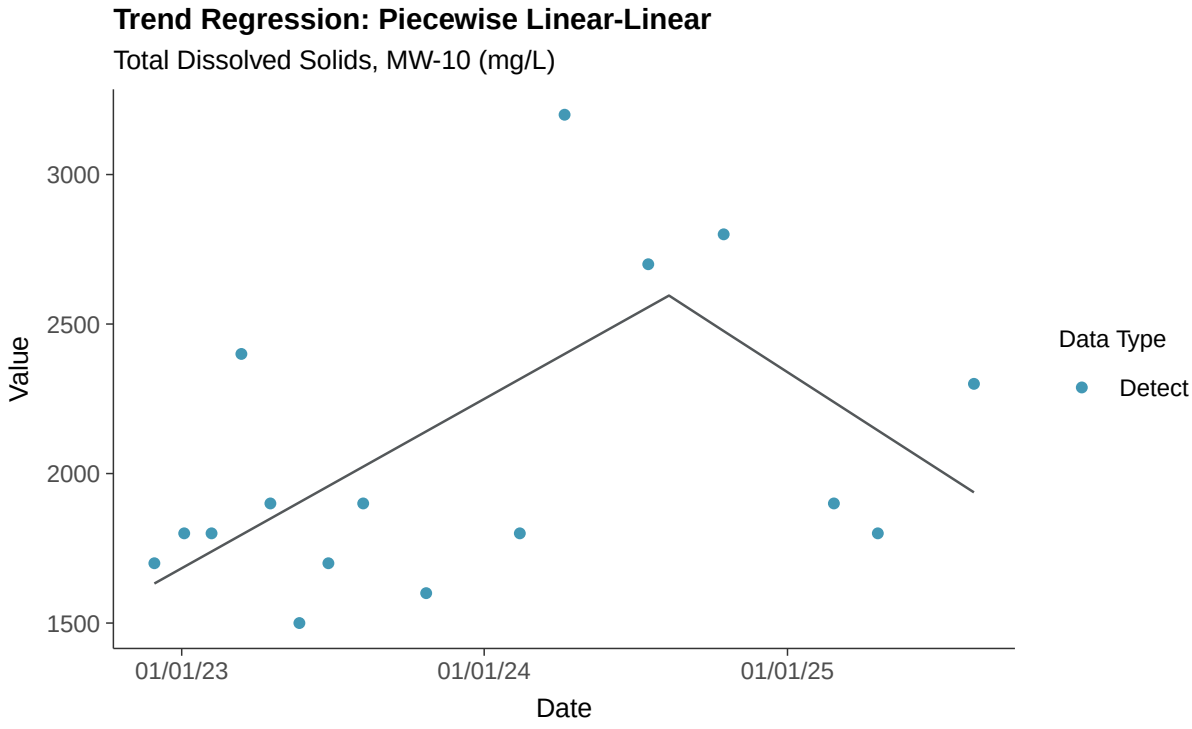
Total Dissolved Solids, MW-10 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

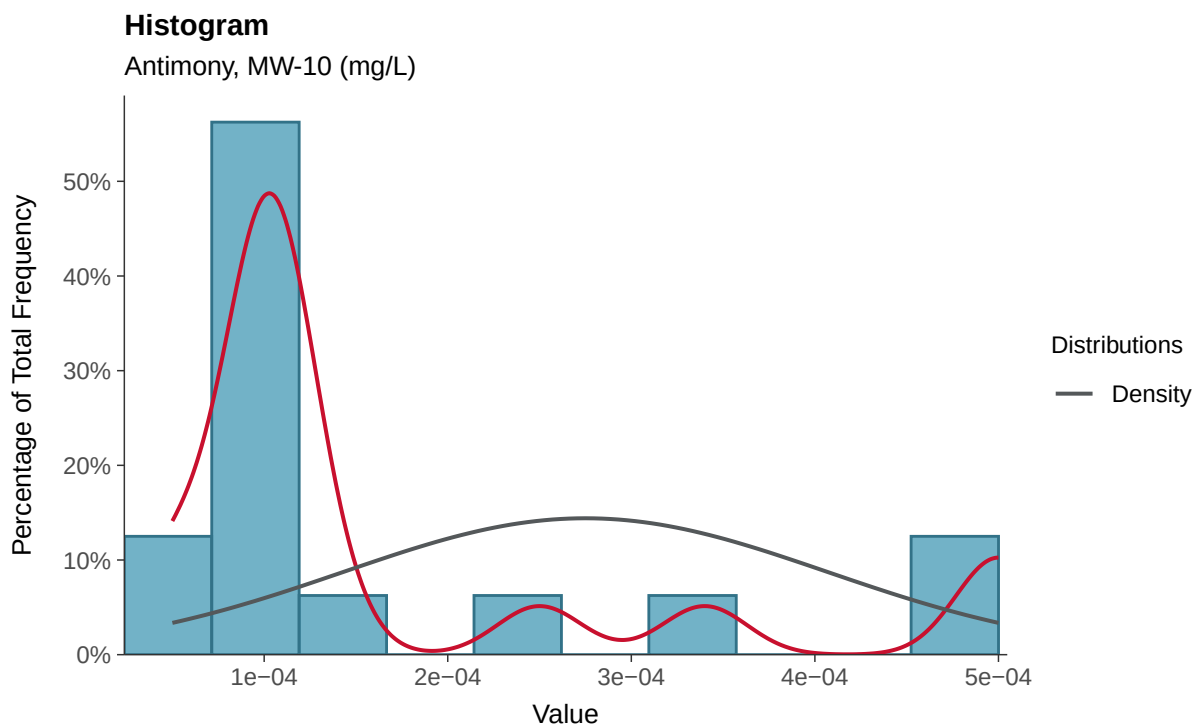
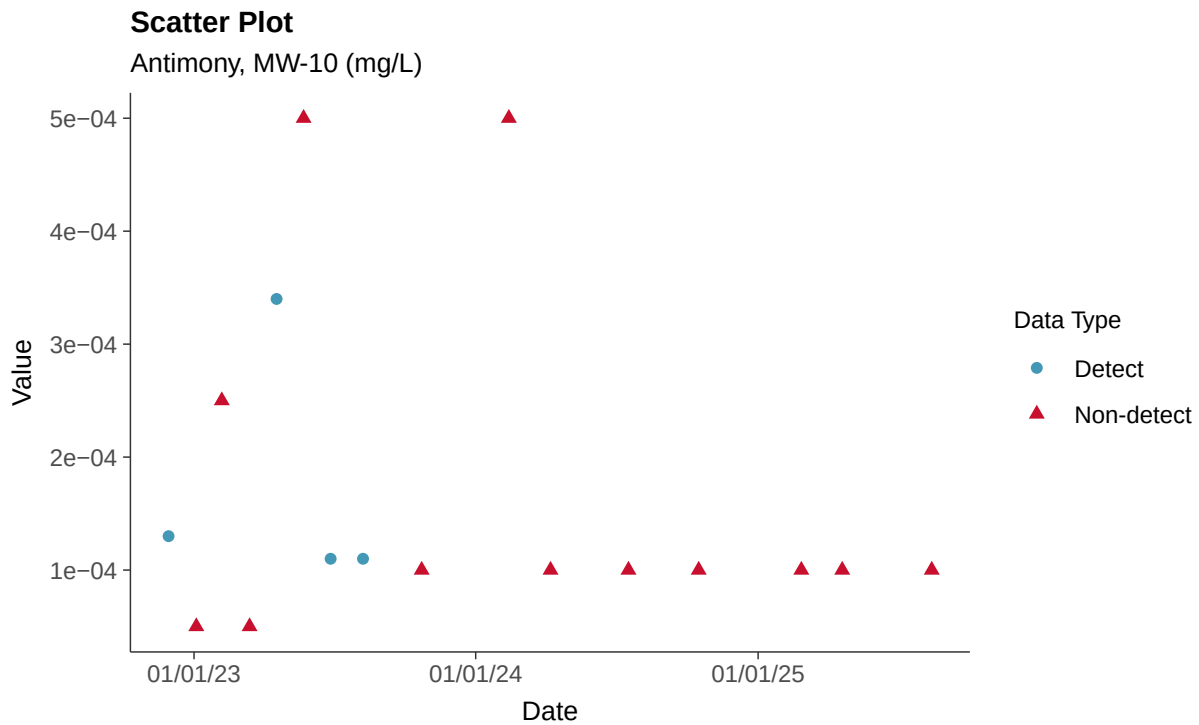
Total Dissolved Solids, MW-10 (mg/L)





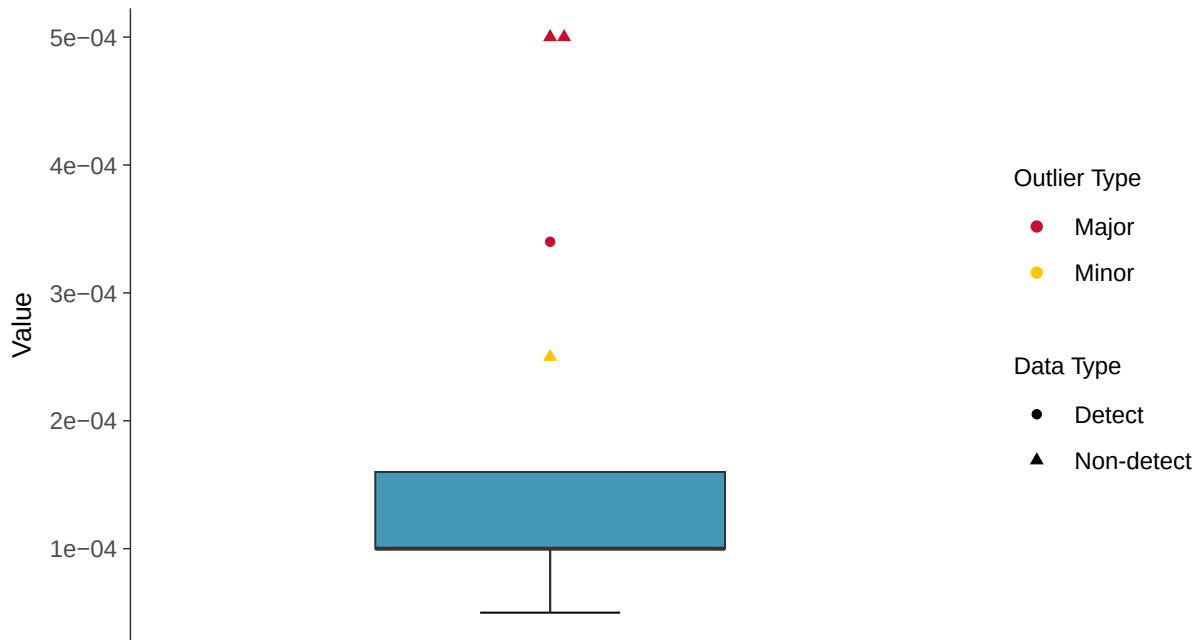
Appendix IV: Antimony, MW-10

ID: 20_3_4_101



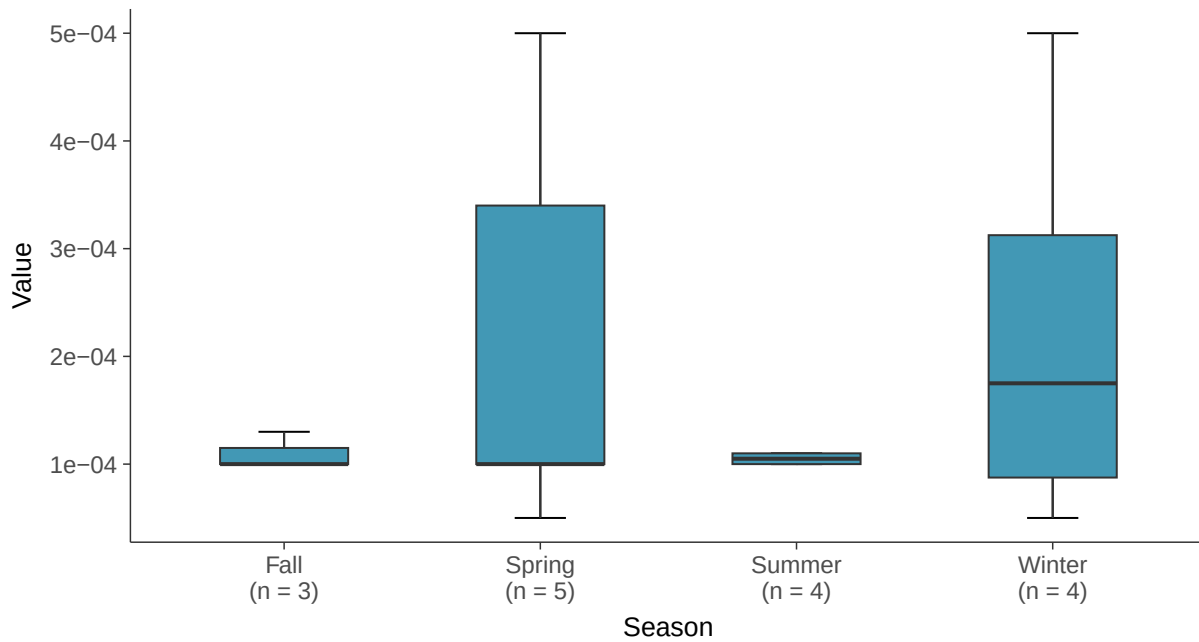
Boxplot

Antimony, MW-10 (mg/L)



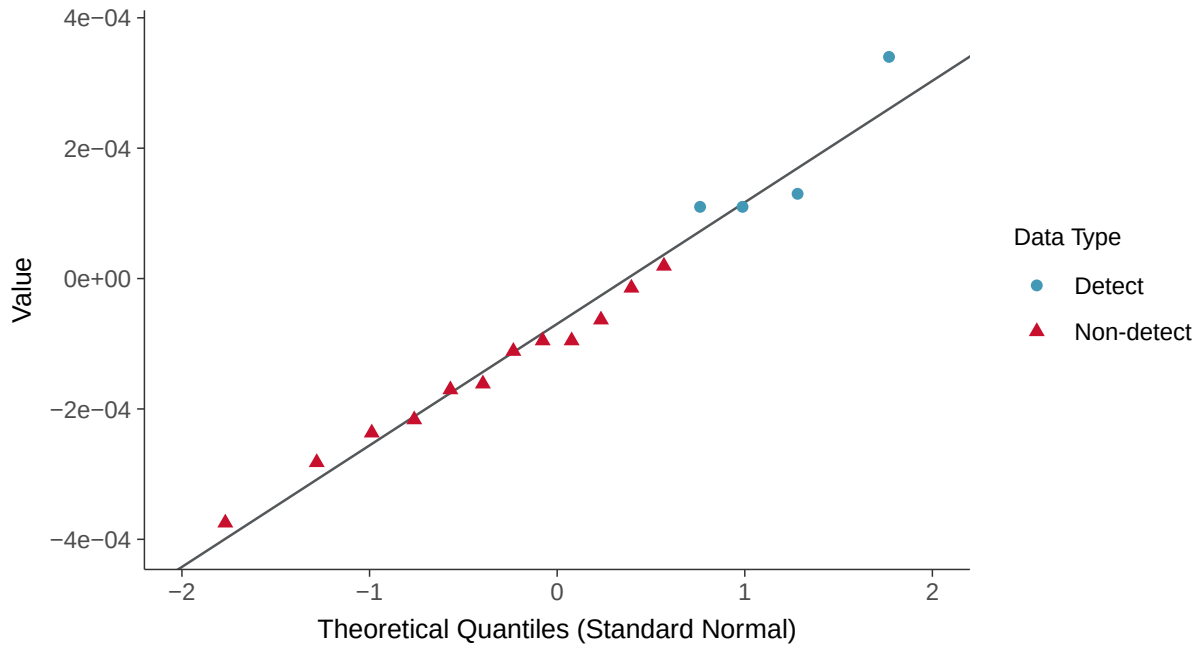
Boxplot by Season

Antimony, MW-10 (mg/L)



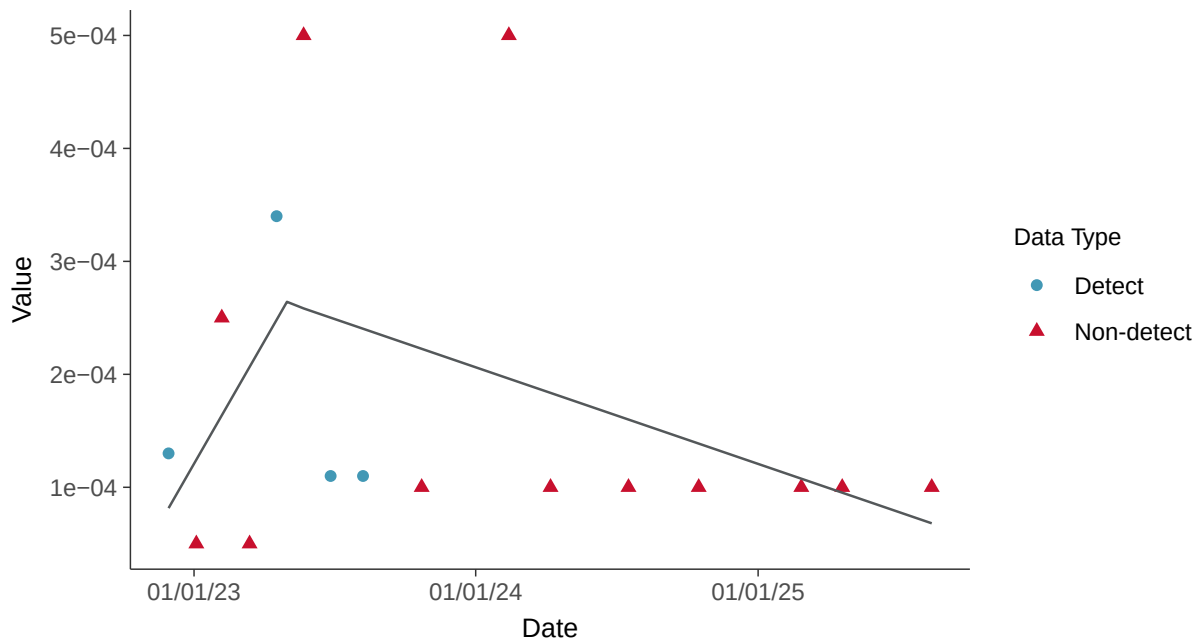
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-10 (mg/L)

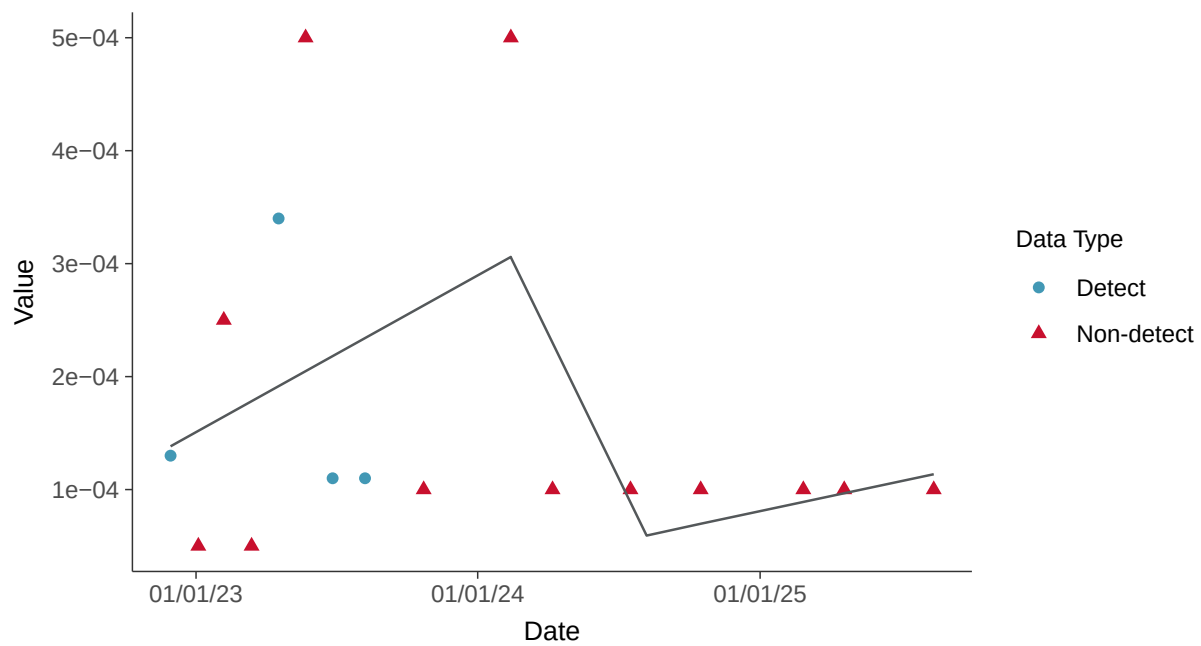


Trend Regression: Piecewise Linear-Linear

Antimony, MW-10 (mg/L)

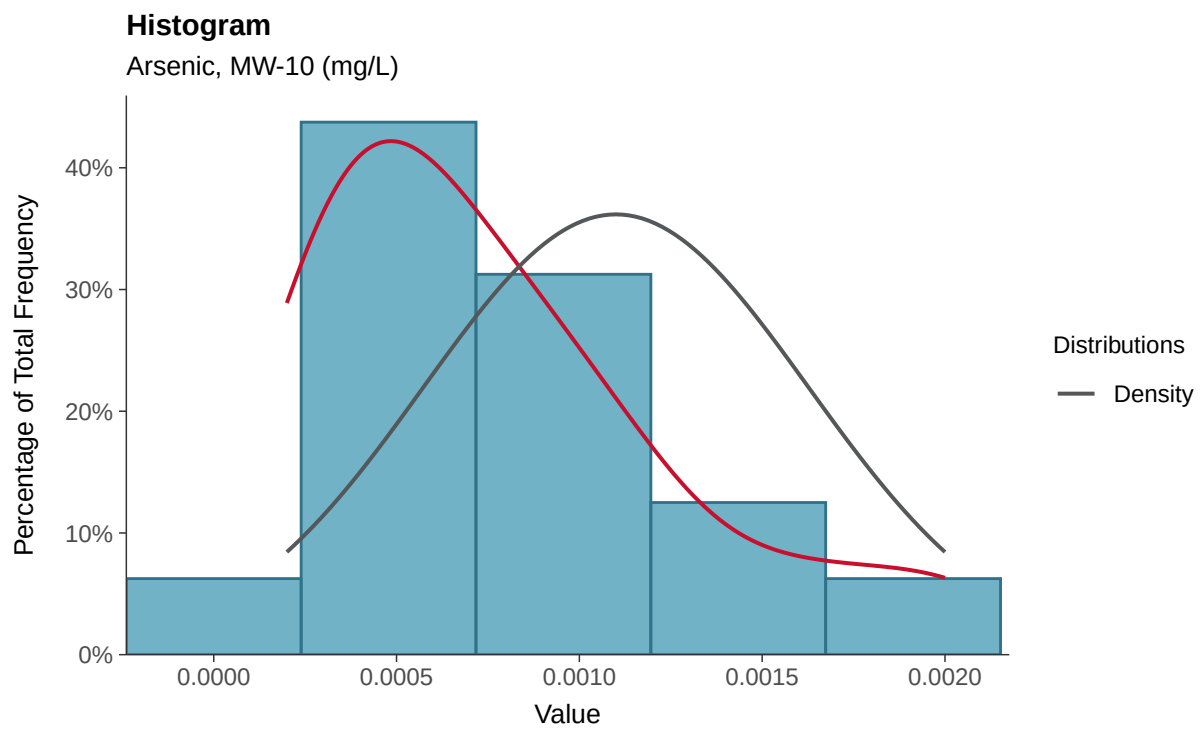
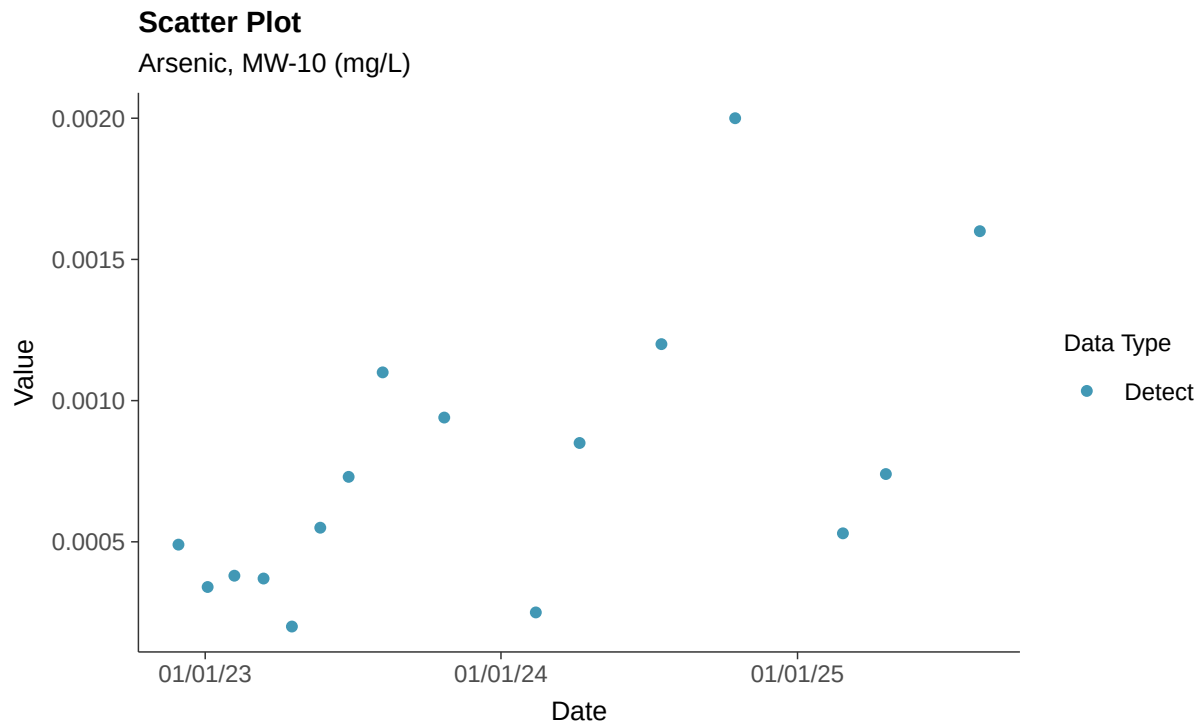


Antimony, MW-10 (mg/L)



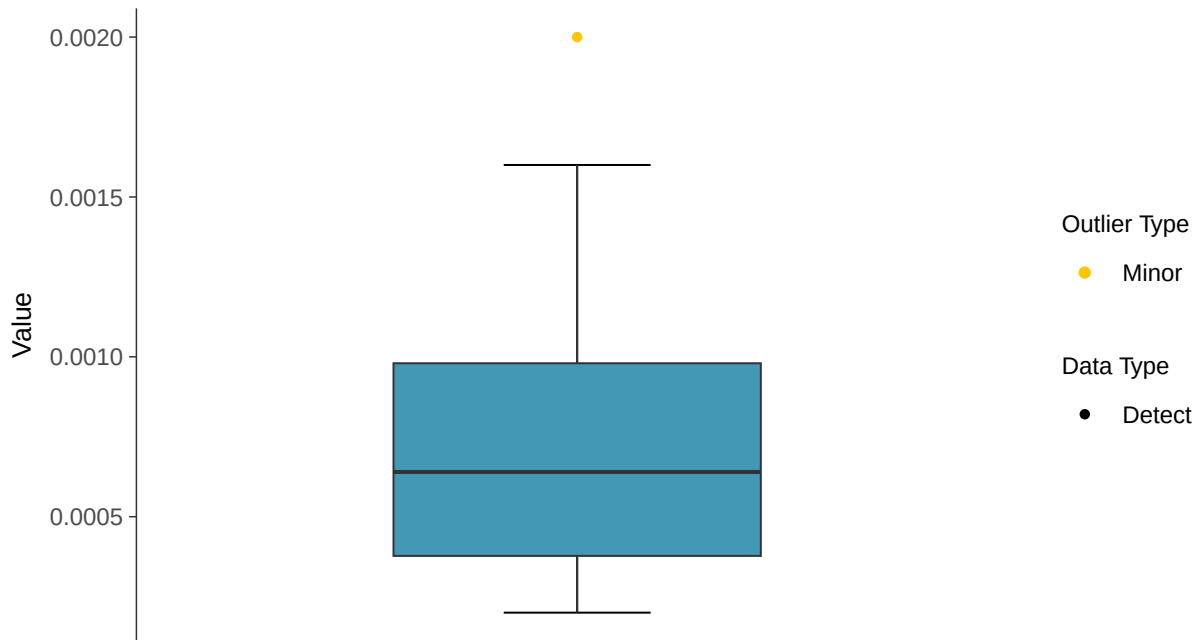
Appendix IV: Arsenic, MW-10

ID: 20_3_4_102



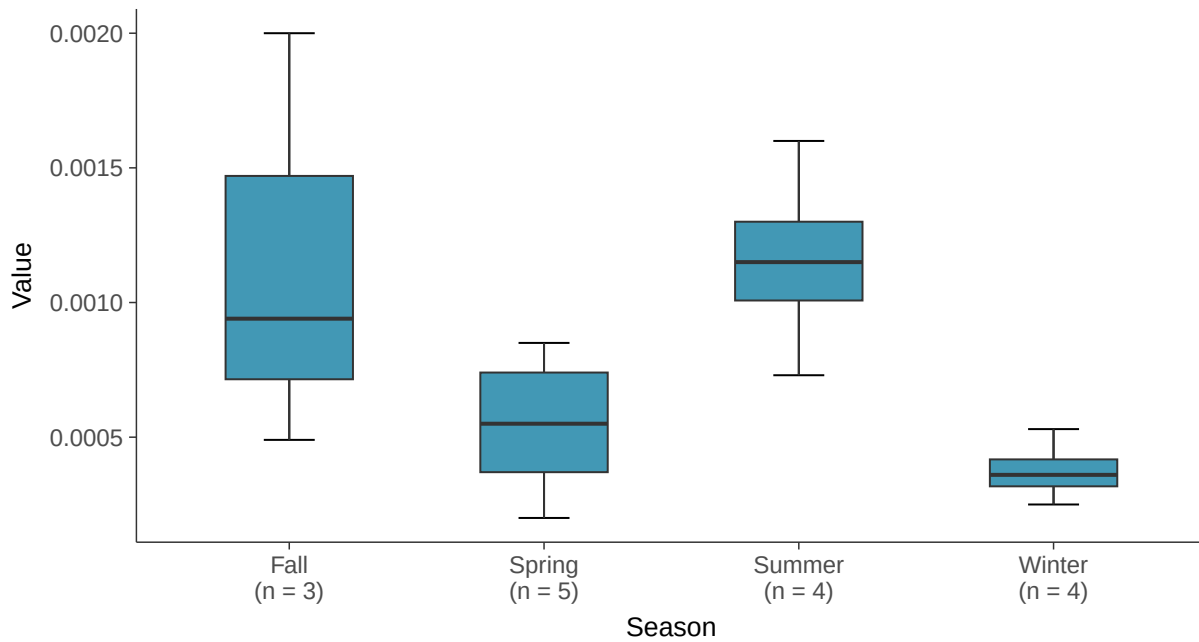
Boxplot

Arsenic, MW-10 (mg/L)



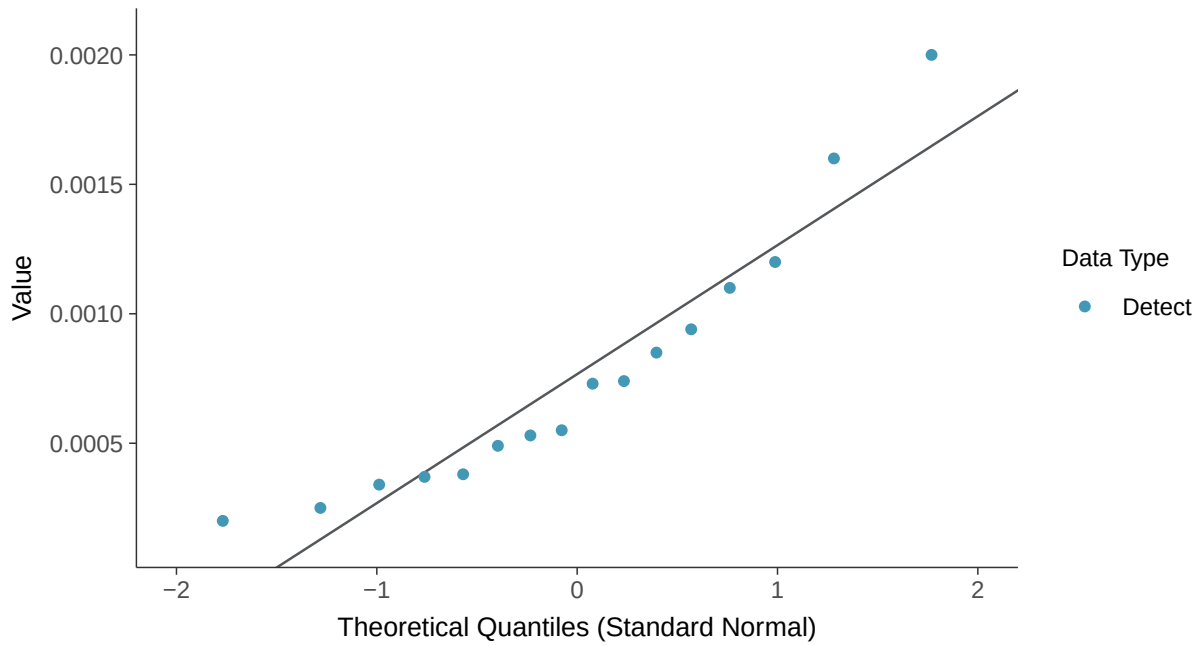
Boxplot by Season

Arsenic, MW-10 (mg/L)



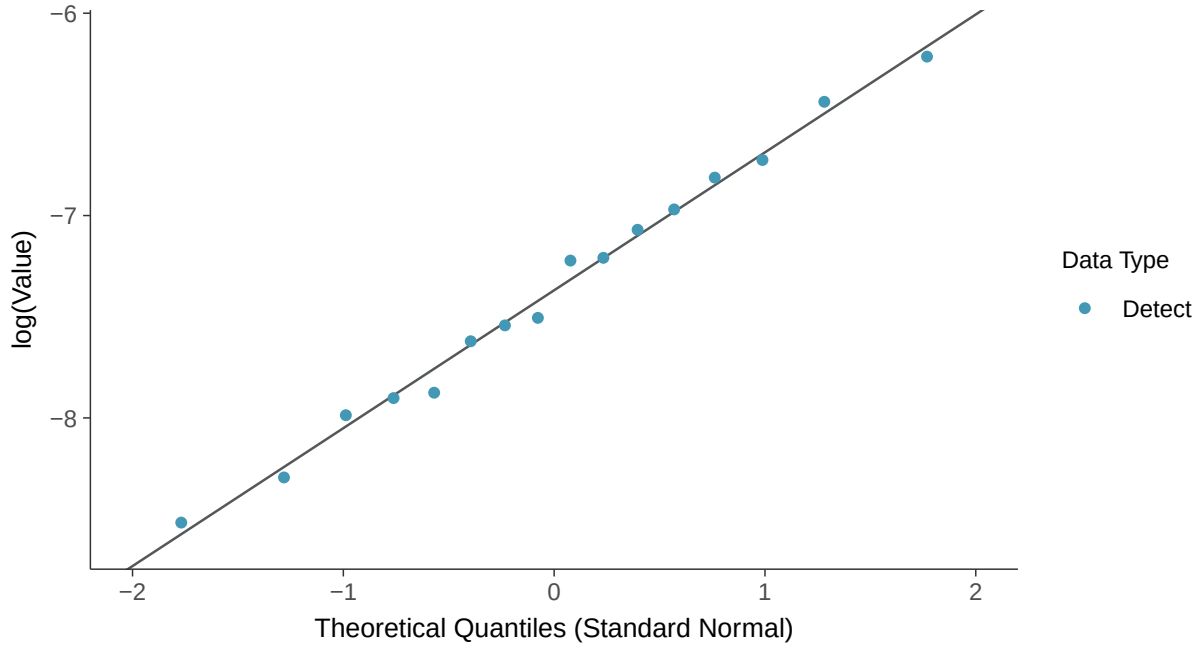
Normal Q-Q plot

Arsenic, MW-10 (mg/L)



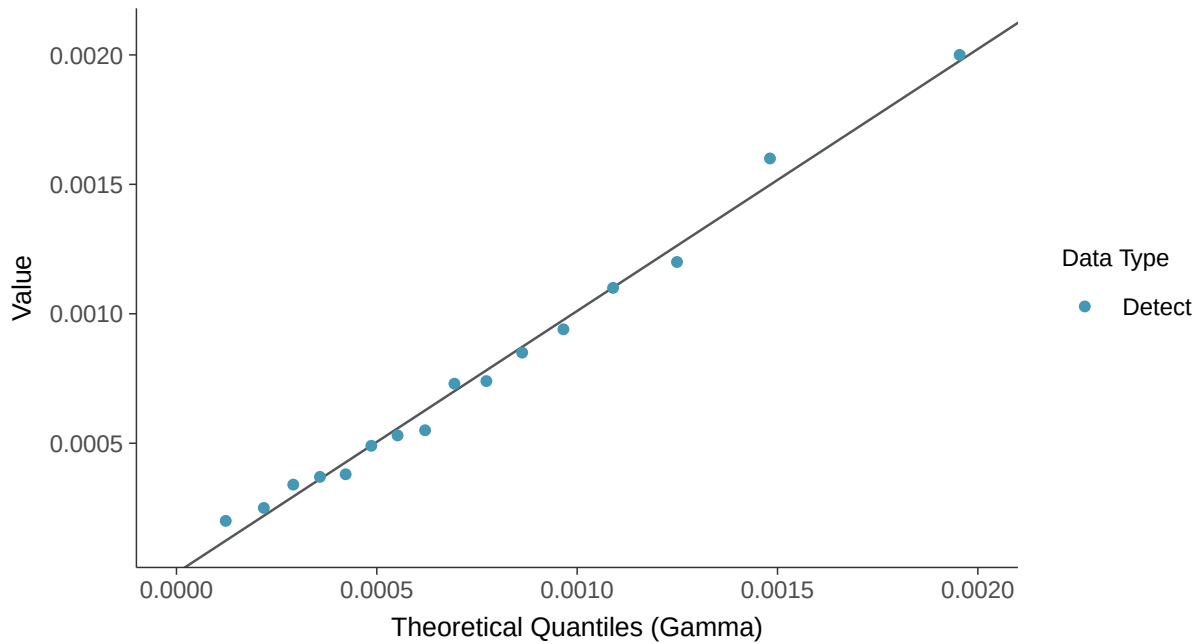
Lognormal Q-Q plot

Arsenic, MW-10 (mg/L)



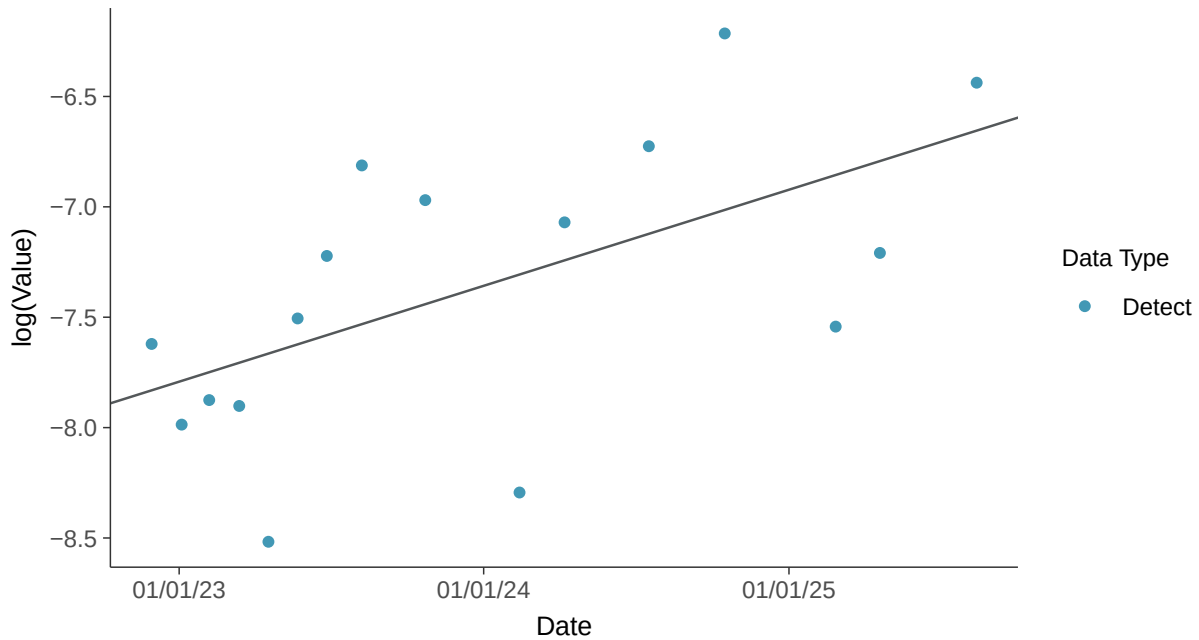
Gamma Q-Q plot

Arsenic, MW-10 (mg/L)



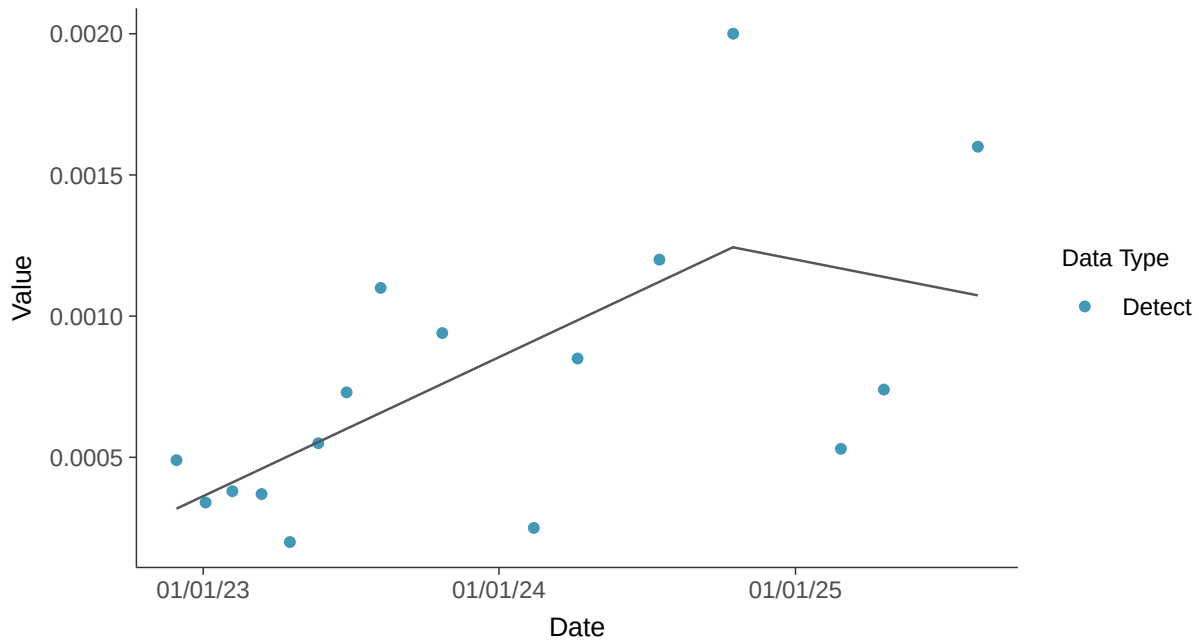
Trend Regression: Lognormal MLE

Arsenic, MW-10 (mg/L)



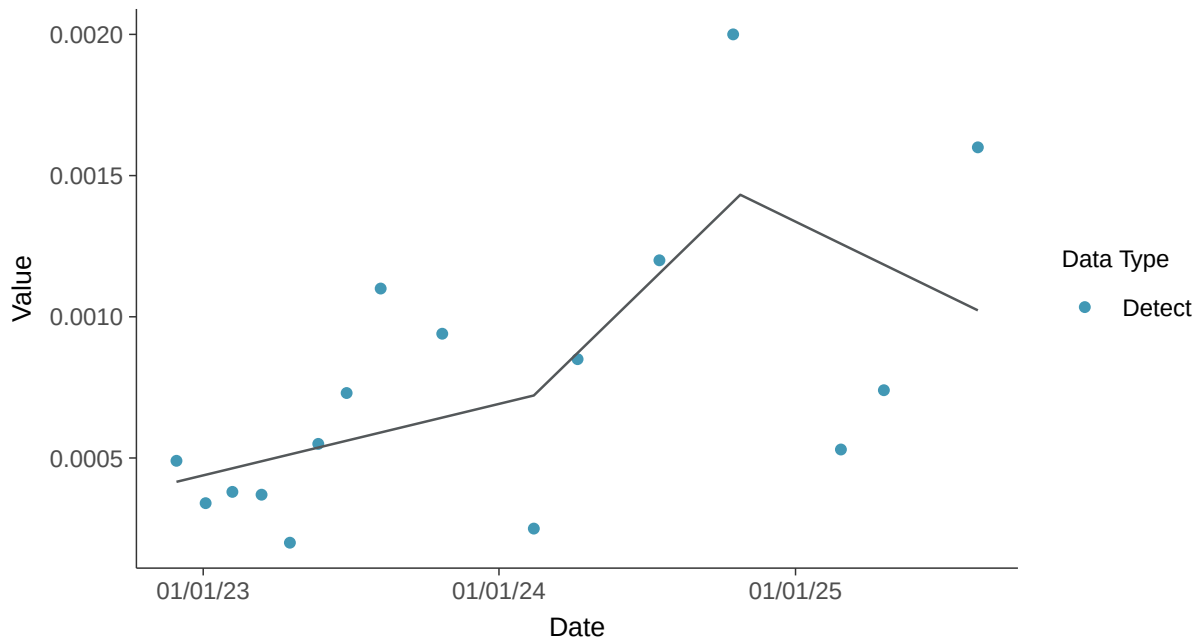
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-10 (mg/L)



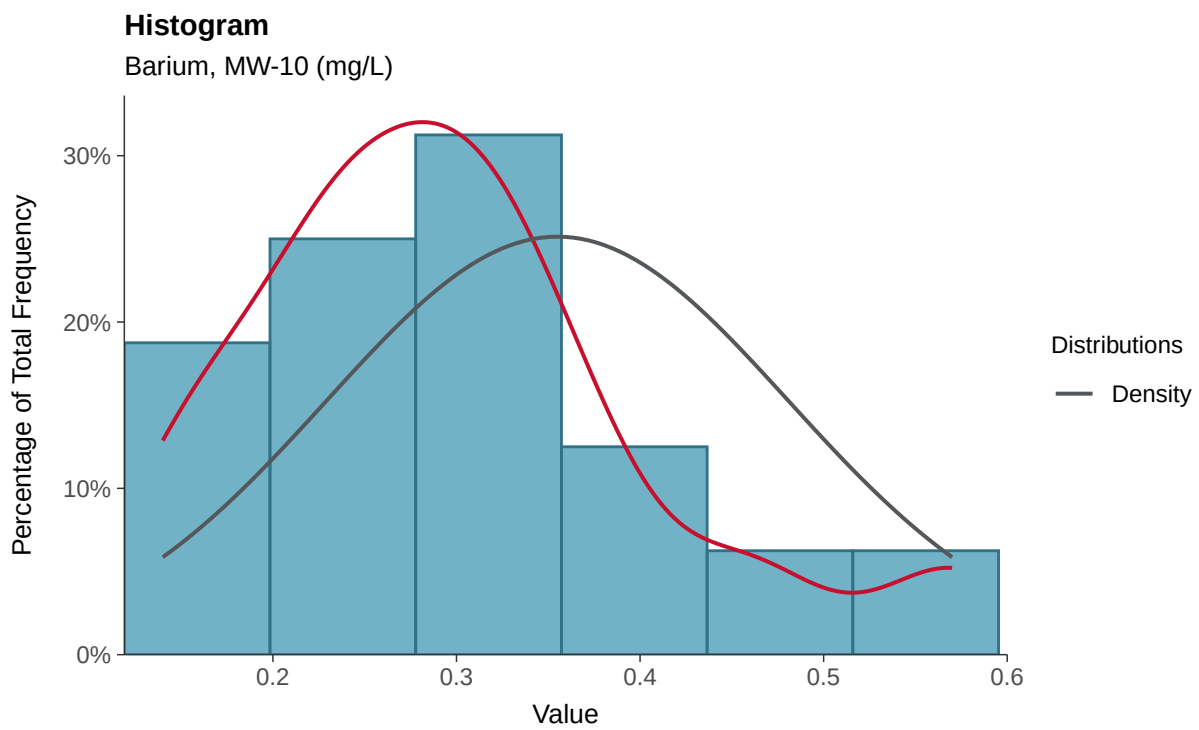
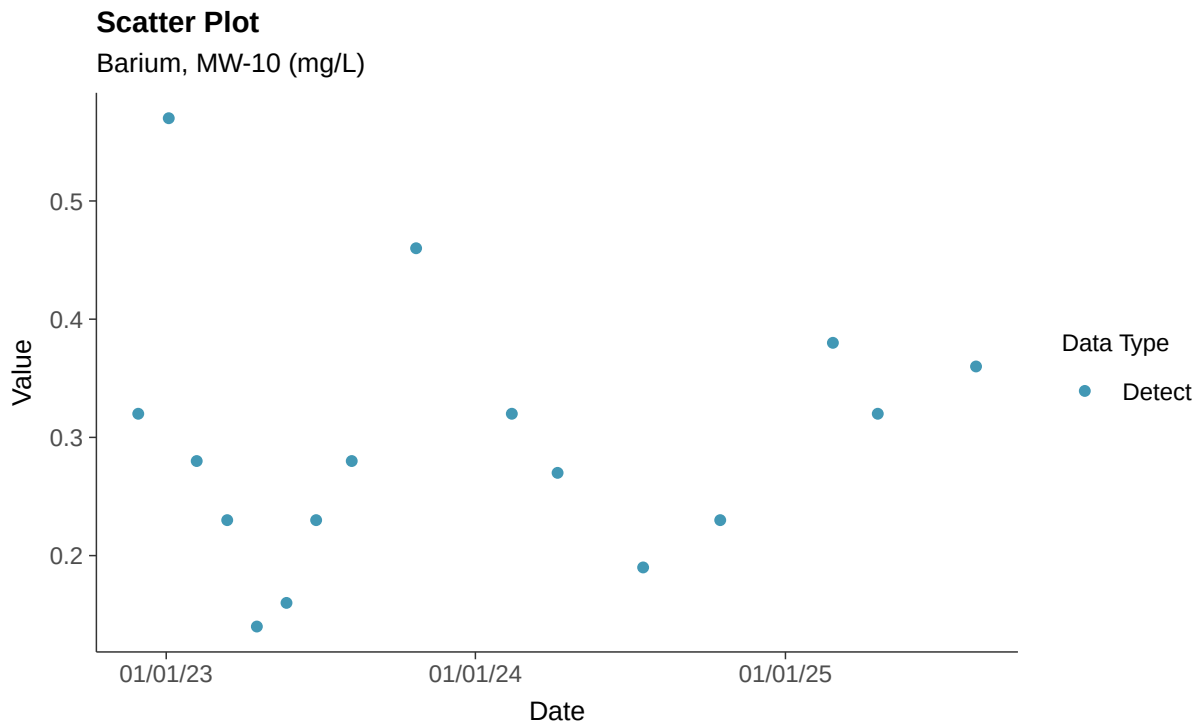
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-10 (mg/L)



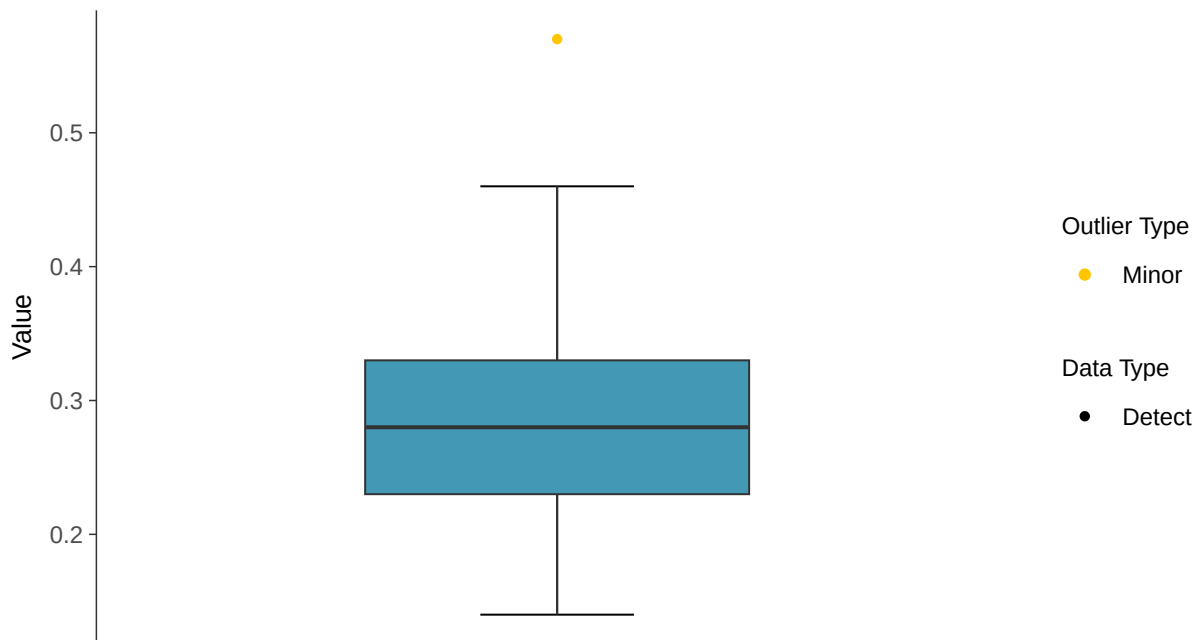
Appendix IV: Barium, MW-10

ID: 20_3_4_103



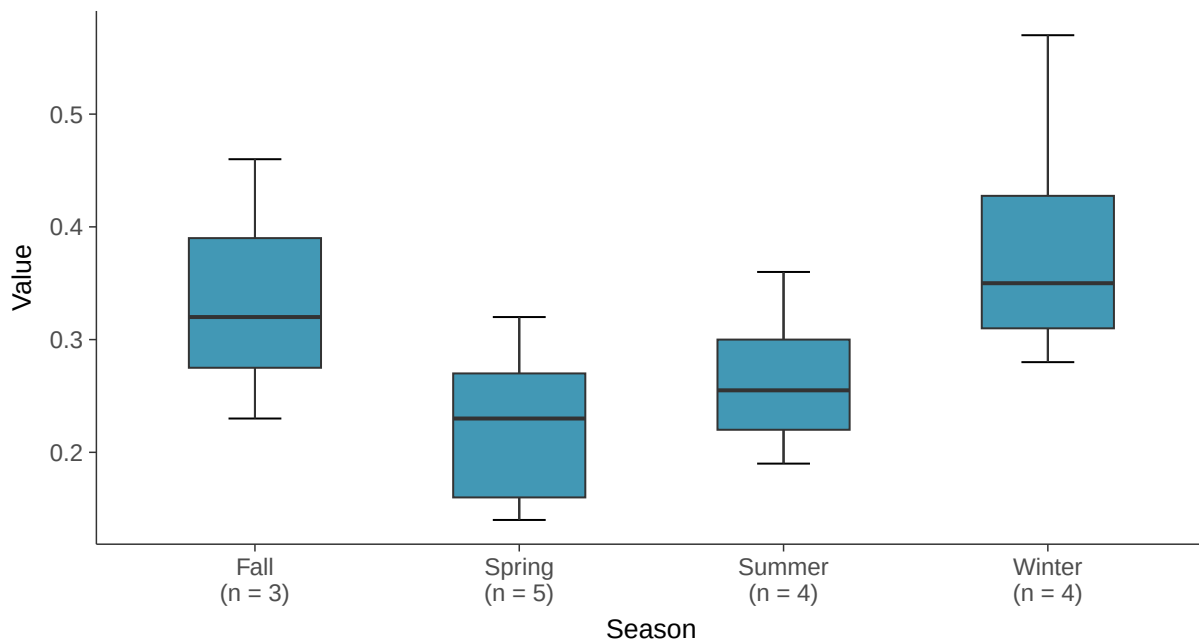
Boxplot

Barium, MW-10 (mg/L)



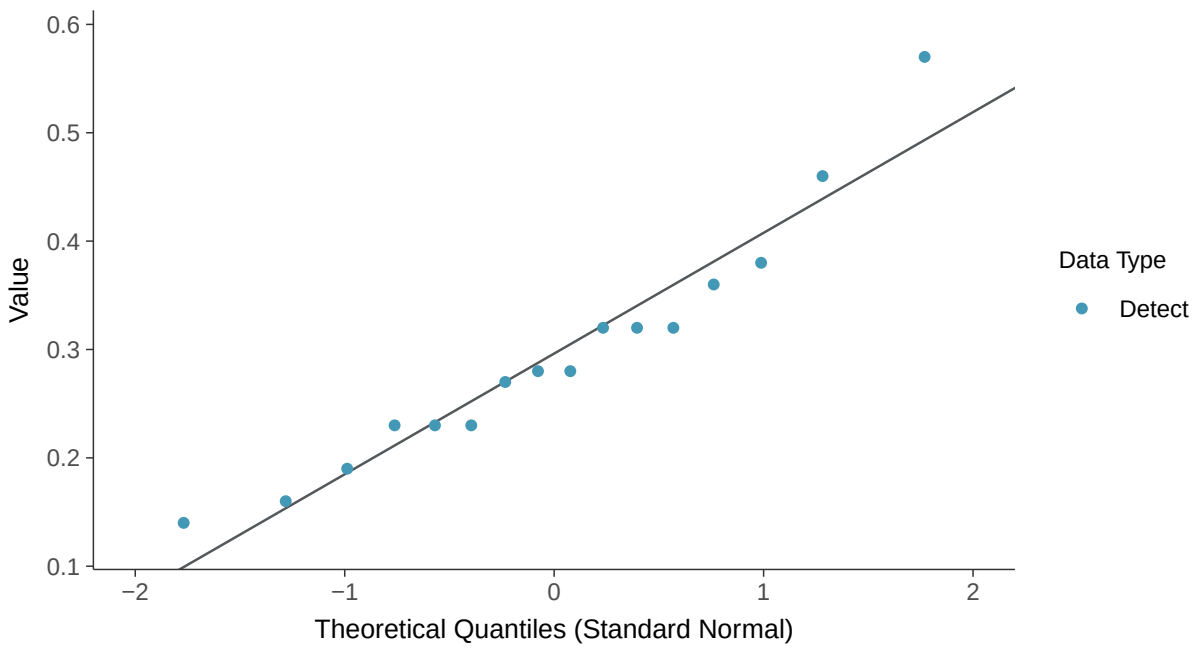
Boxplot by Season

Barium, MW-10 (mg/L)

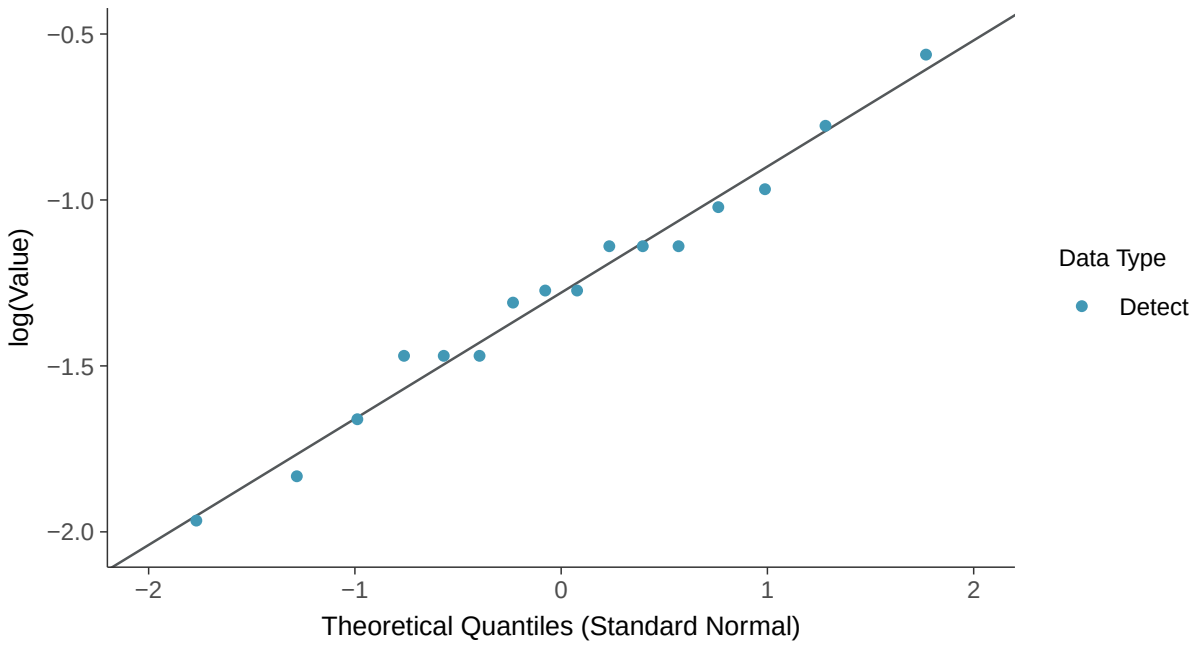


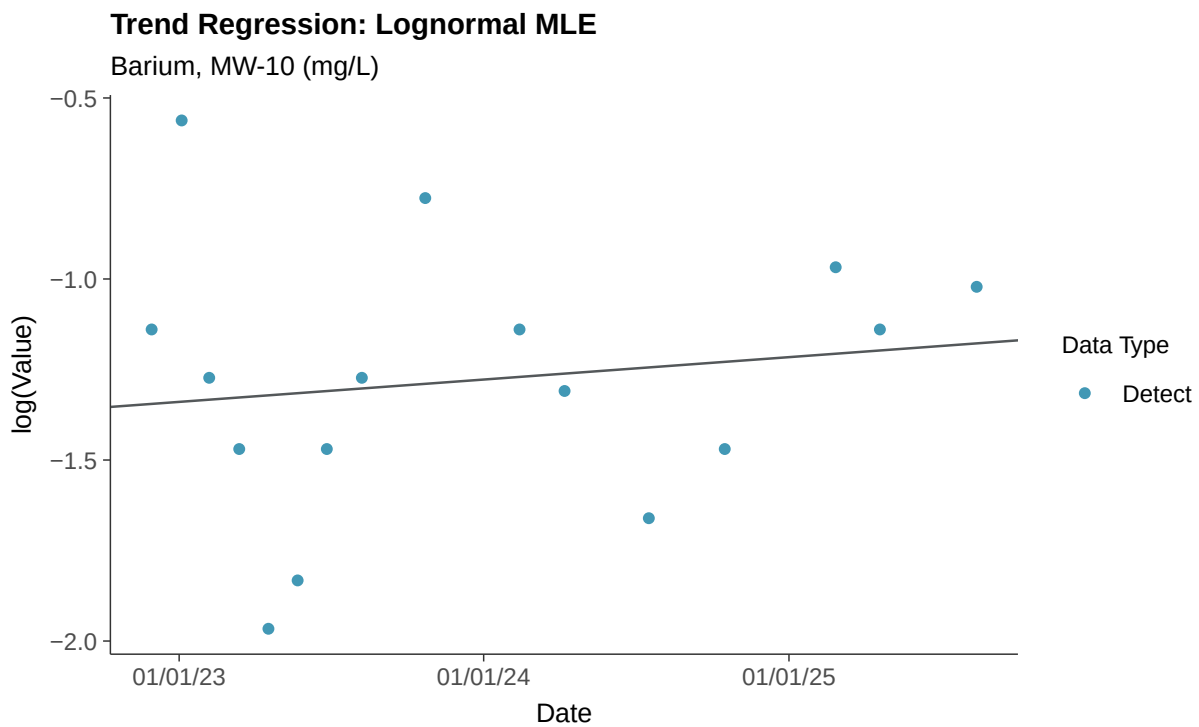
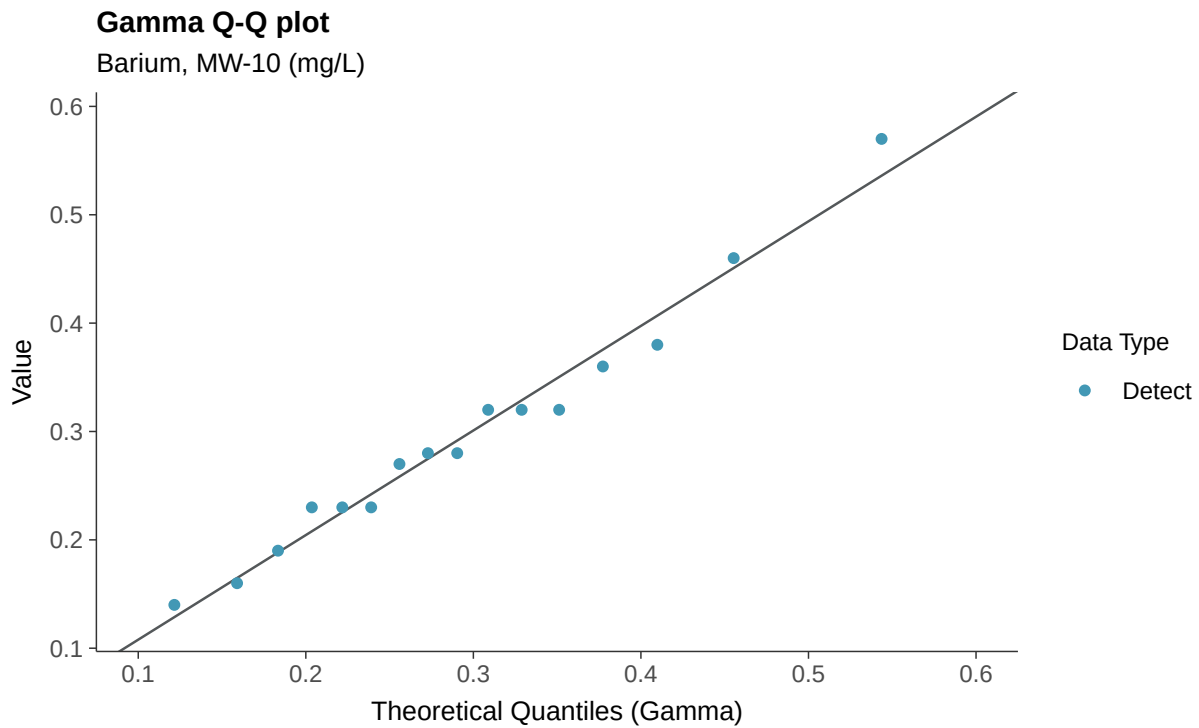


Normal Q-Q plot
Barium, MW-10 (mg/L)



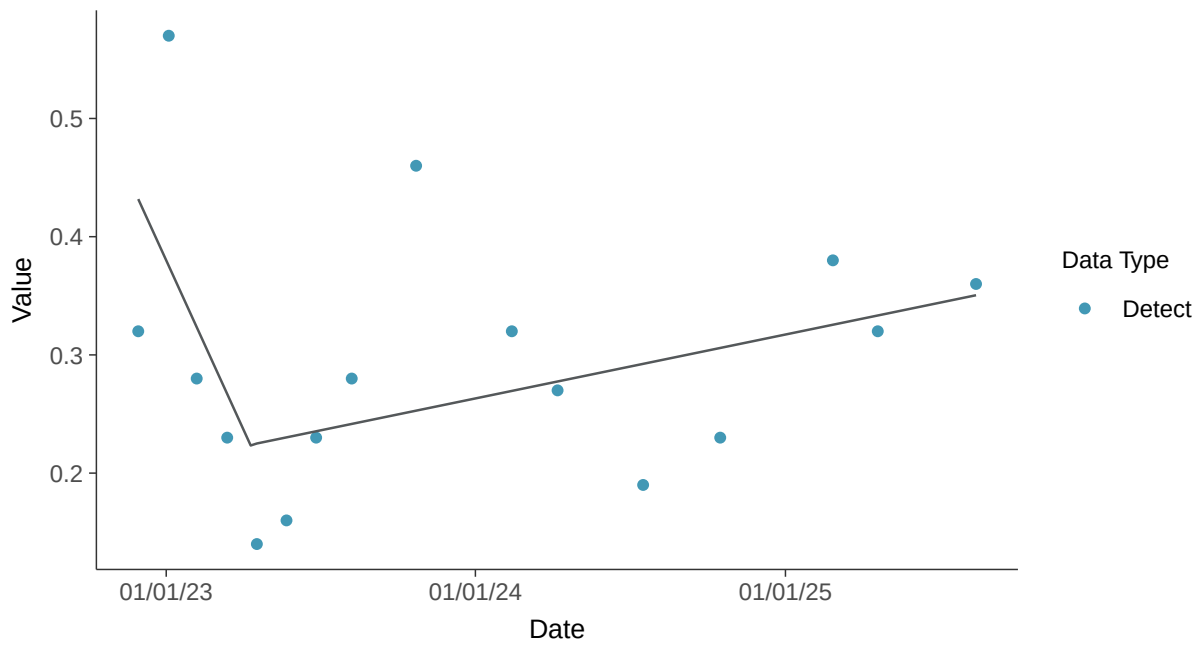
Lognormal Q-Q plot
Barium, MW-10 (mg/L)





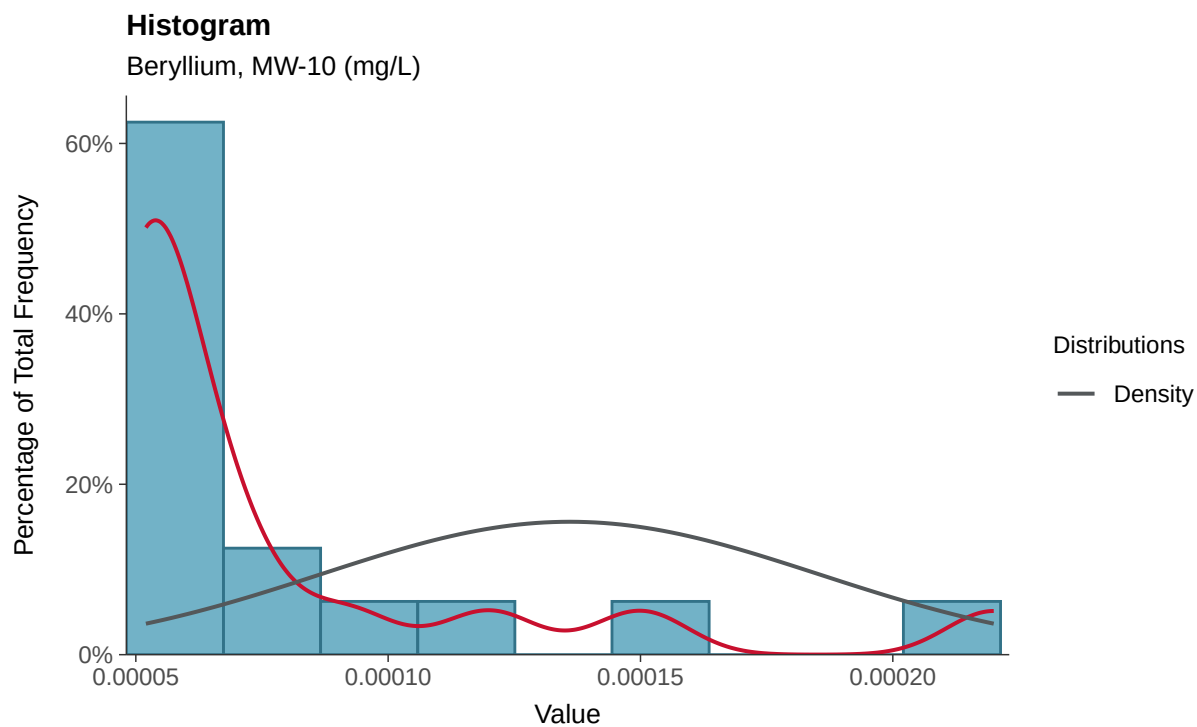
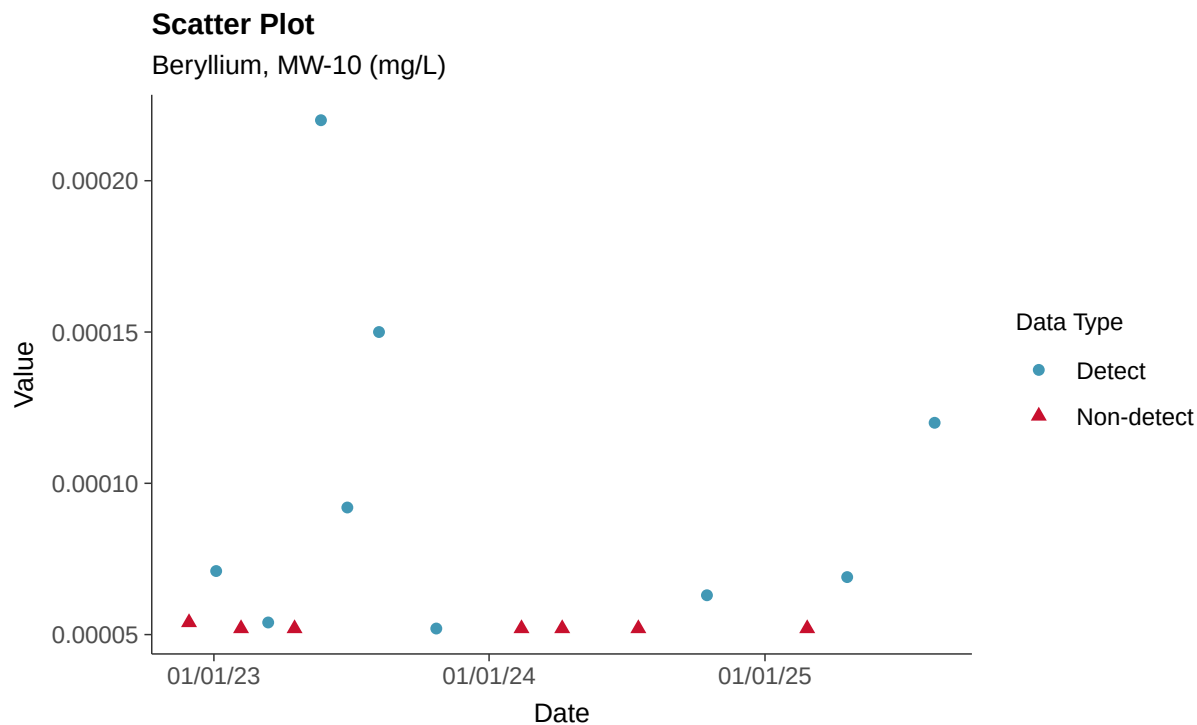


Trend Regression: Piecewise Linear-Linear
Barium, MW-10 (mg/L)

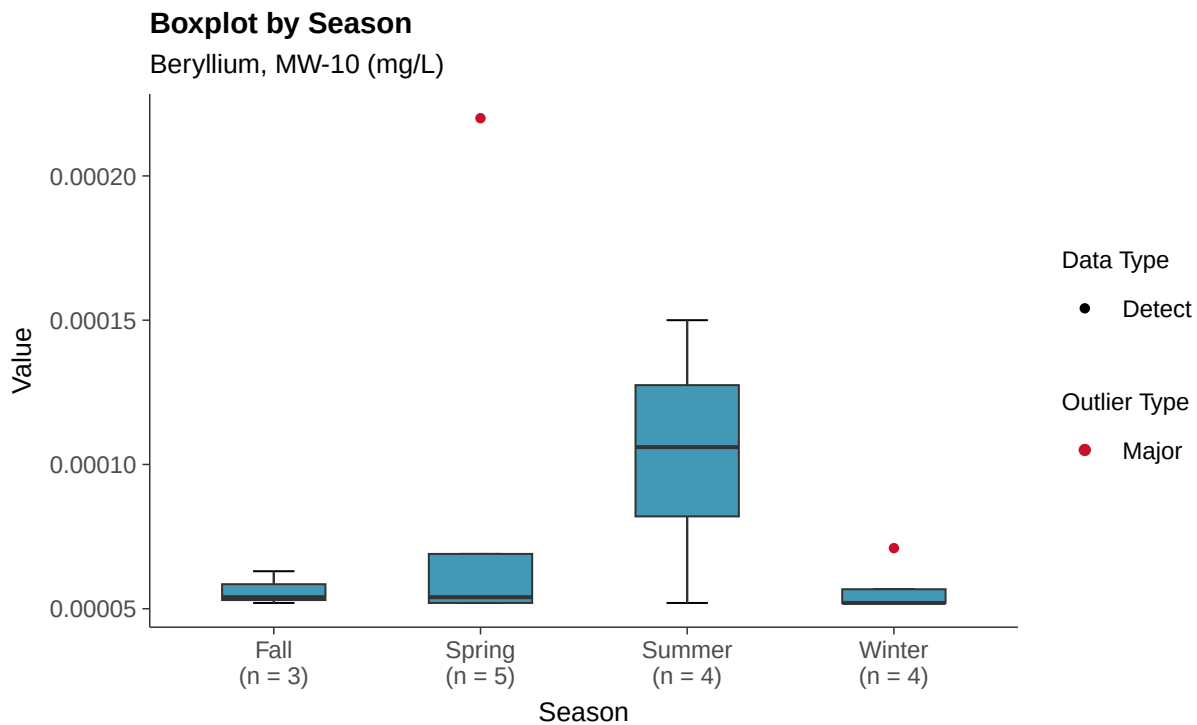


Appendix IV: Beryllium, MW-10

ID: 20_3_4_104

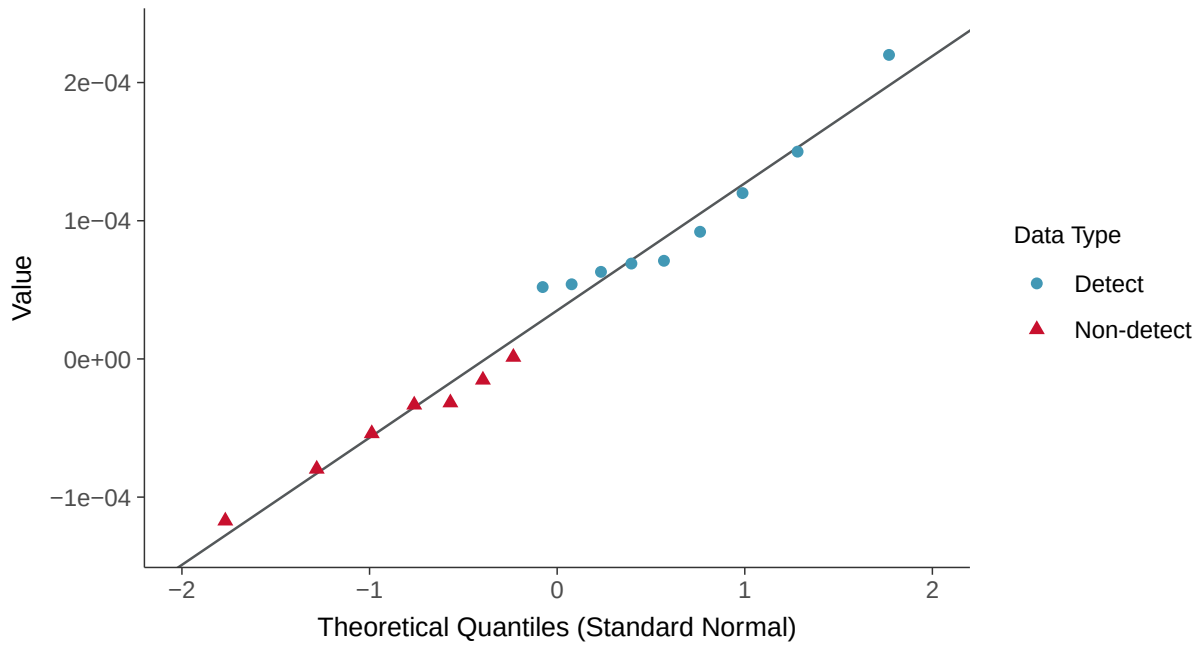


Beryllium, MW-10 (mg/L)



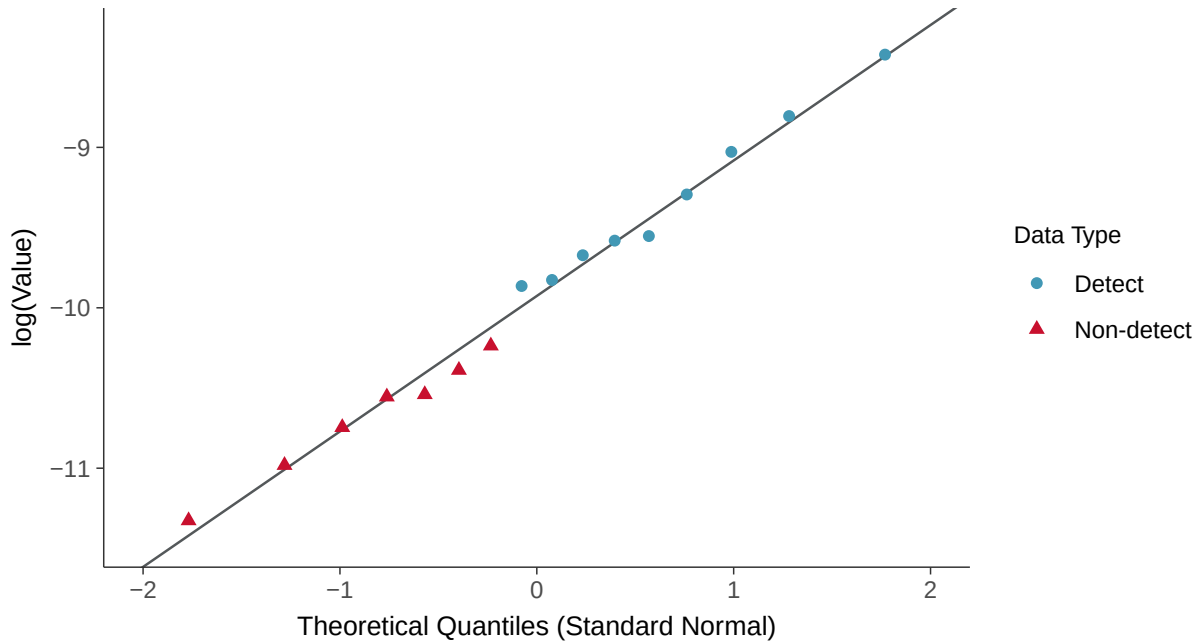
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-10 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

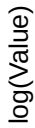
Beryllium, MW-10 (mg/L)



Beryllium, MW-10 (mg/L)

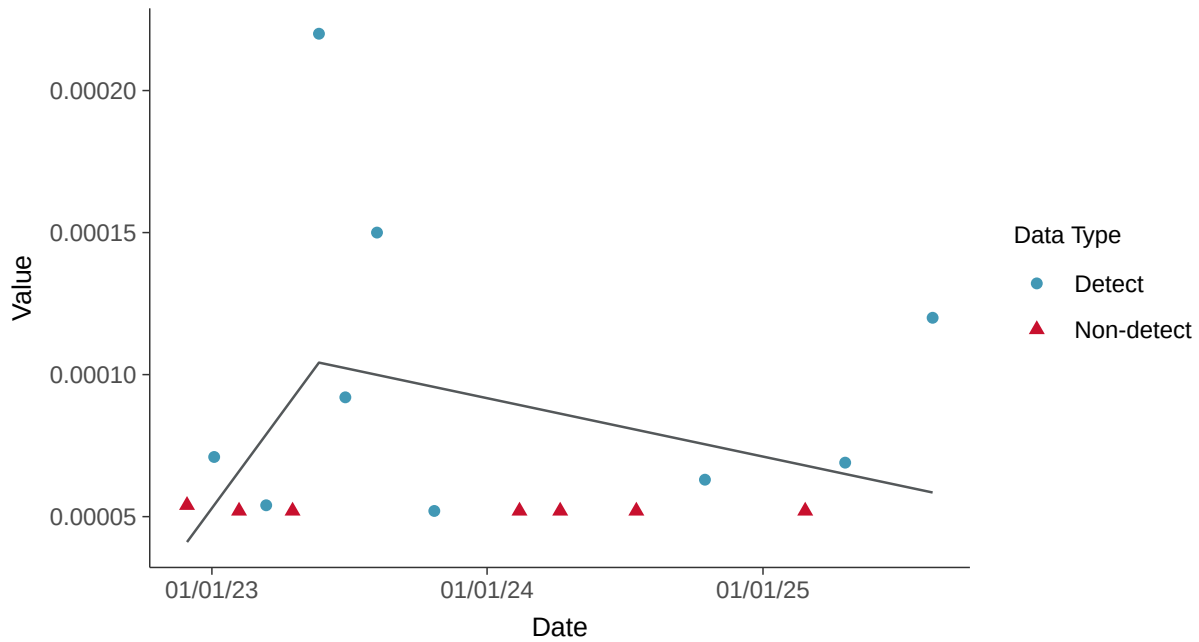


Beryllium, MW-10 (mg/L)



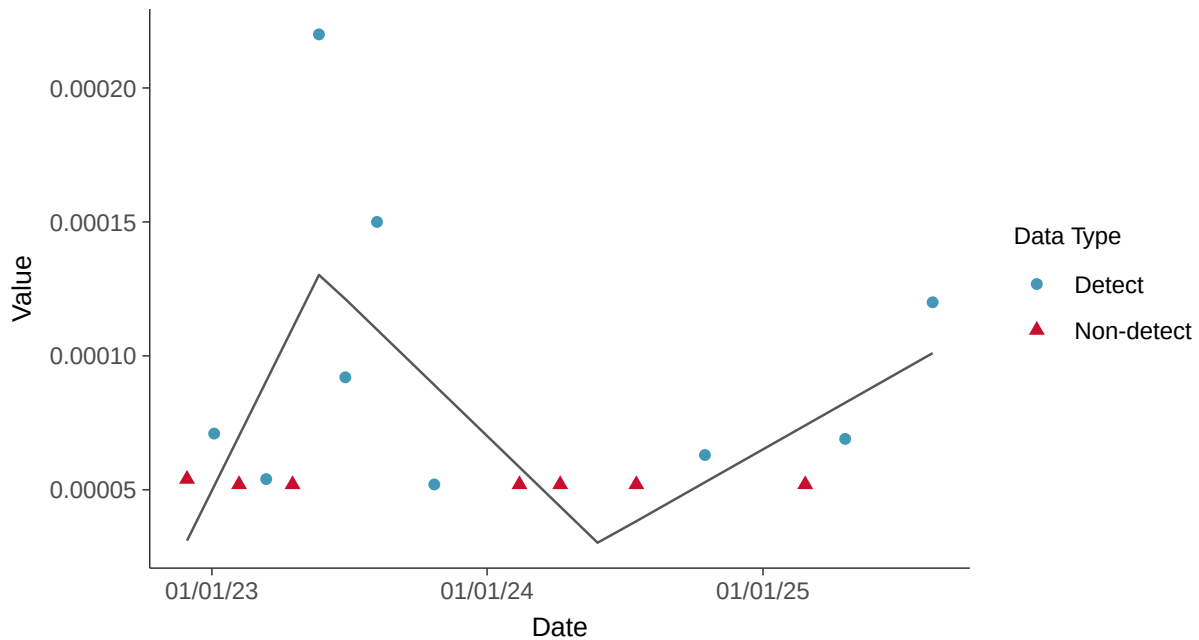
Trend Regression: Piecewise Linear-Linear

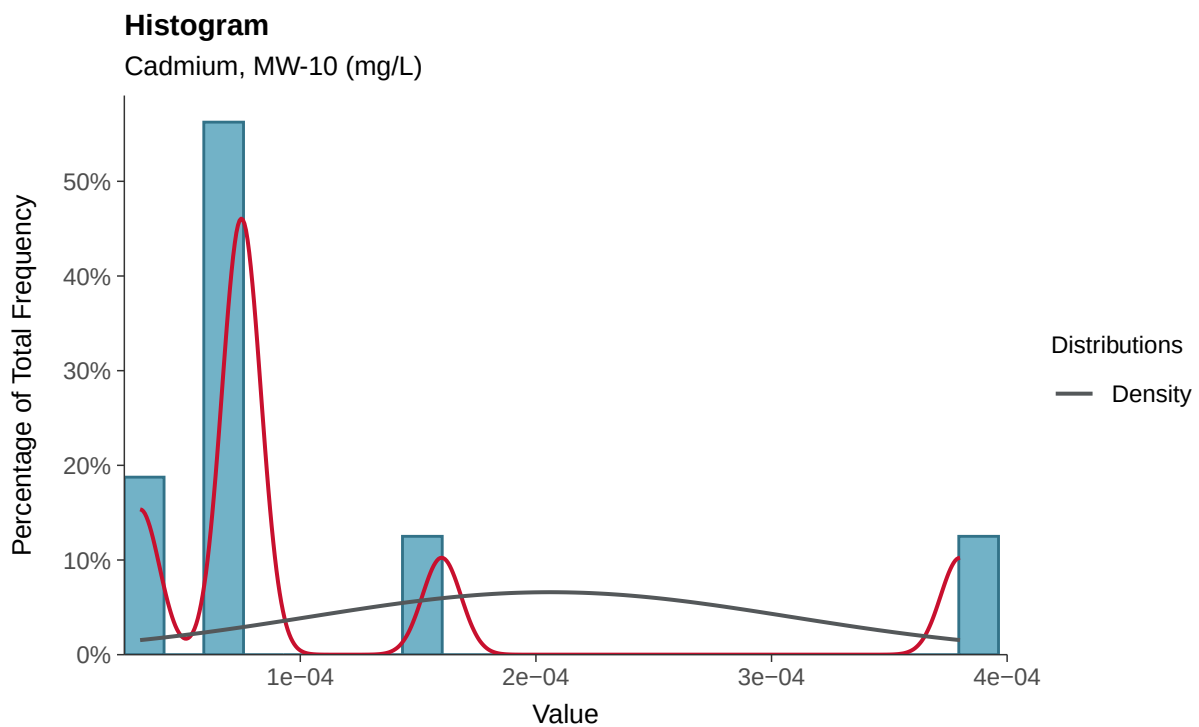
Beryllium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

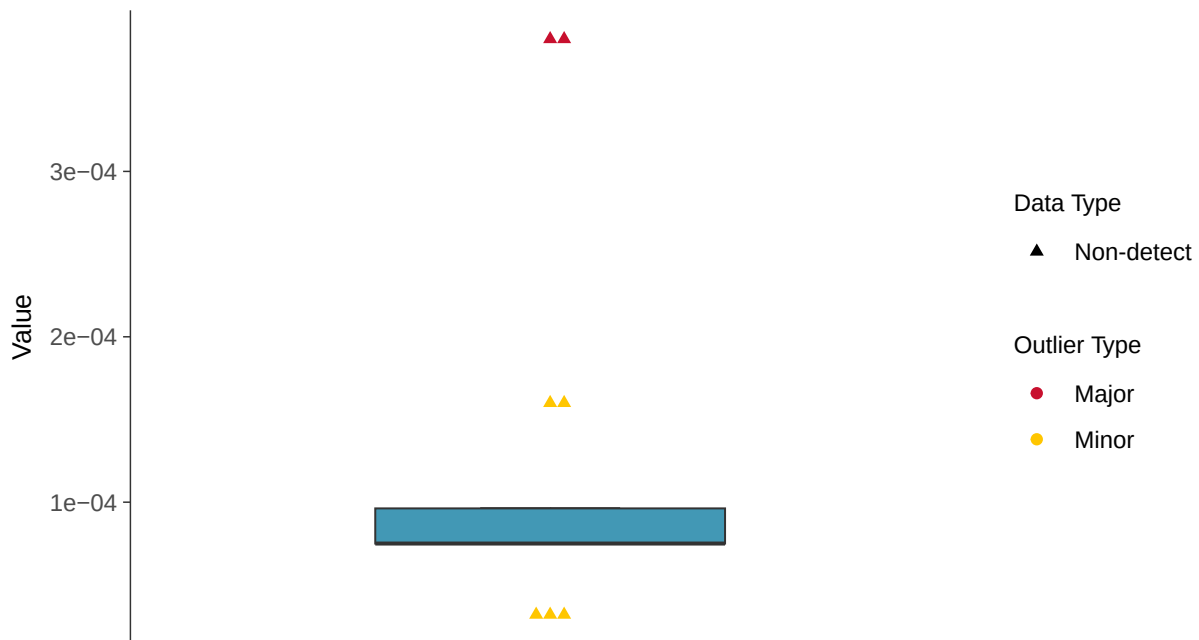
Beryllium, MW-10 (mg/L)





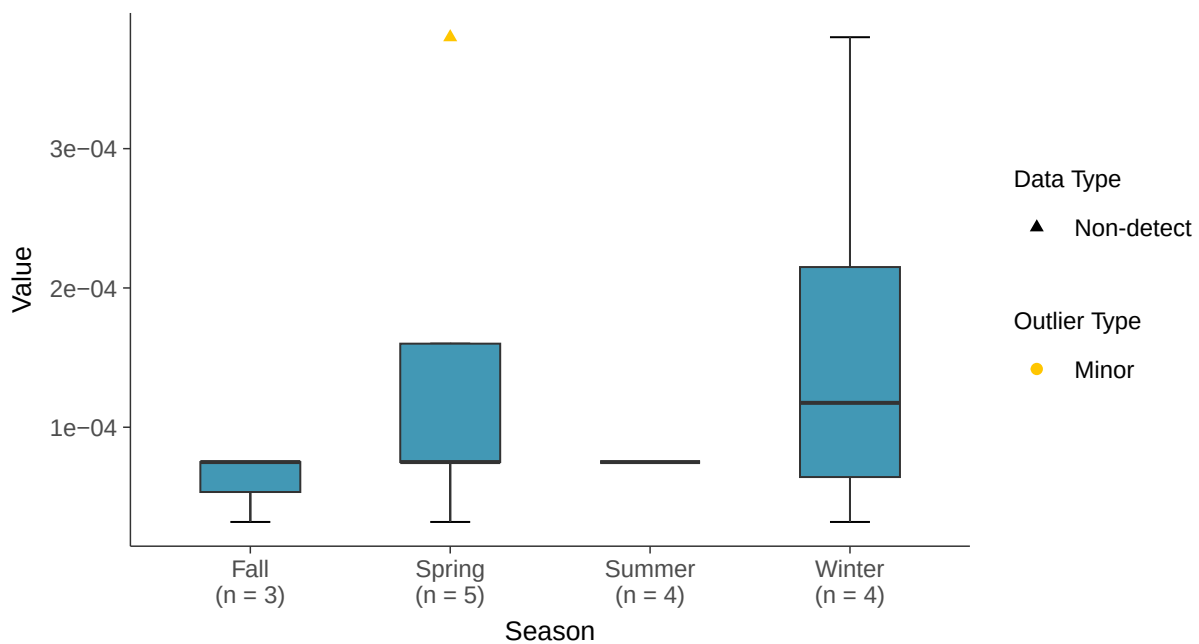
Boxplot

Cadmium, MW-10 (mg/L)



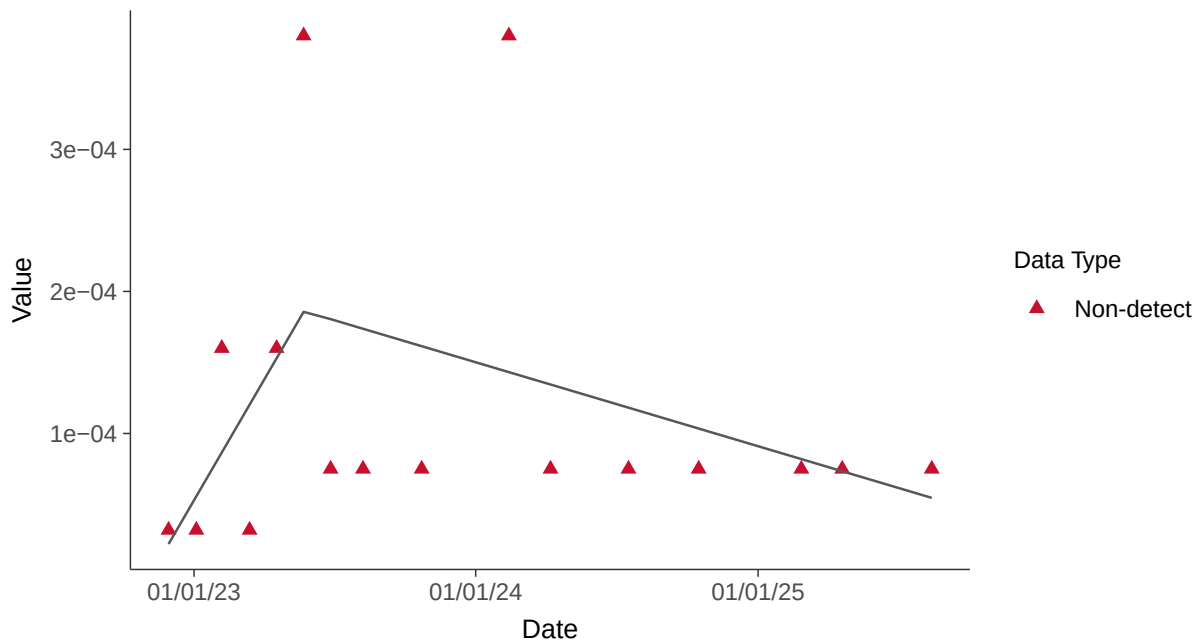
Boxplot by Season

Cadmium, MW-10 (mg/L)



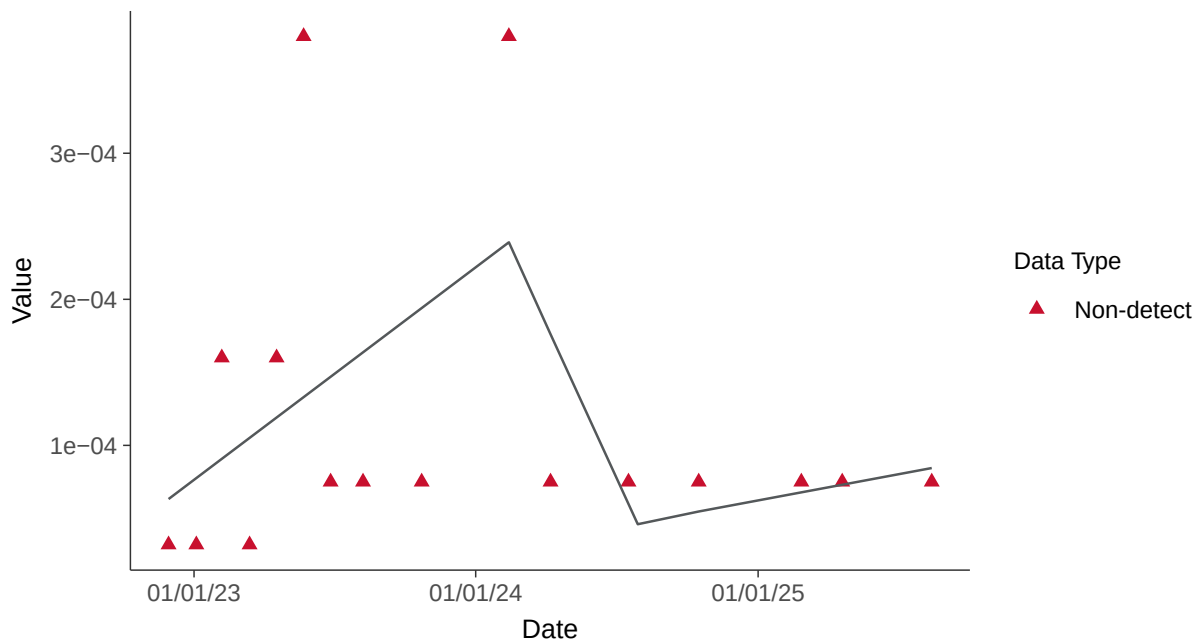
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-10 (mg/L)

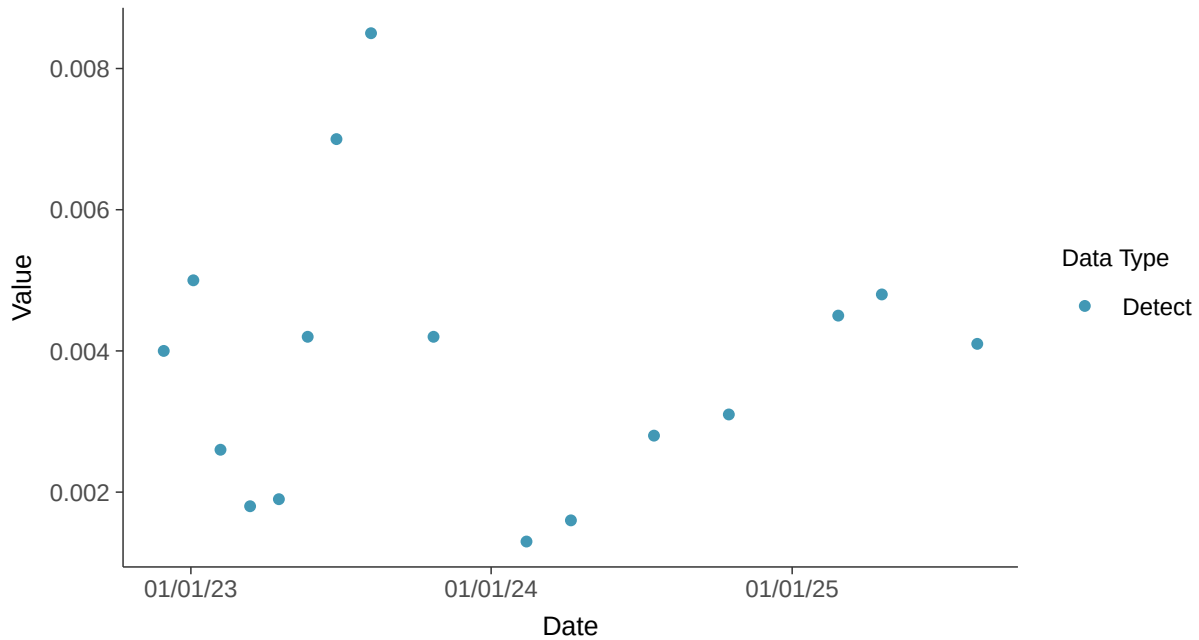


Appendix IV: Chromium, Total, MW-10

ID: 20_3_4_109

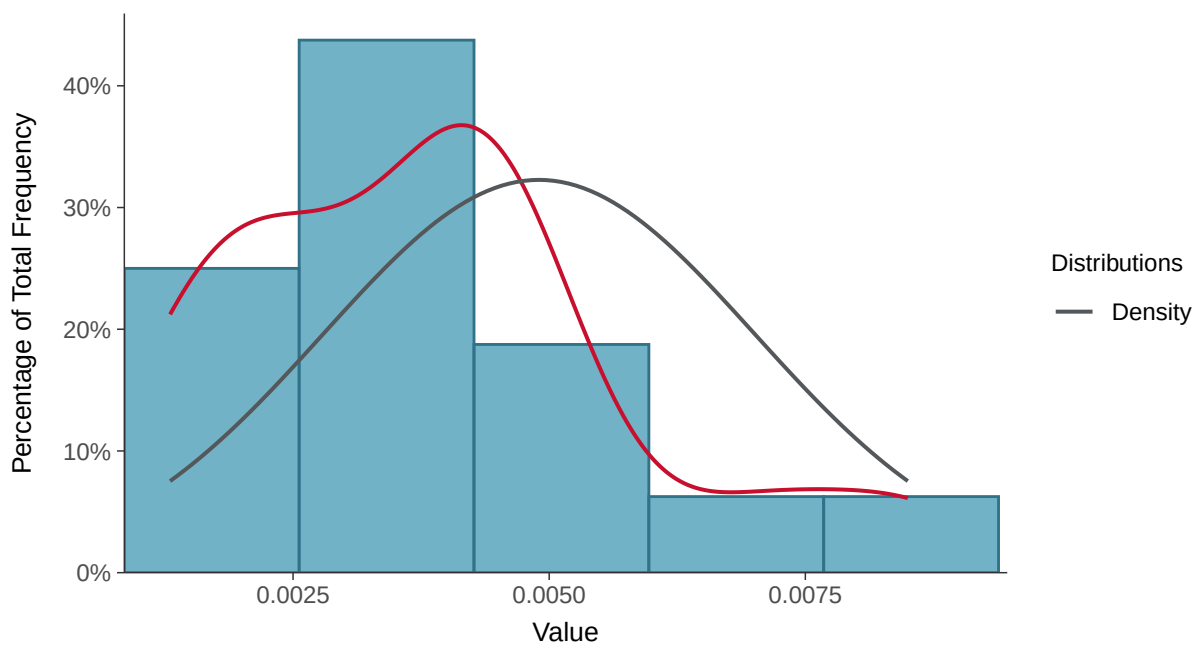
Scatter Plot

Chromium, Total, MW-10 (mg/L)



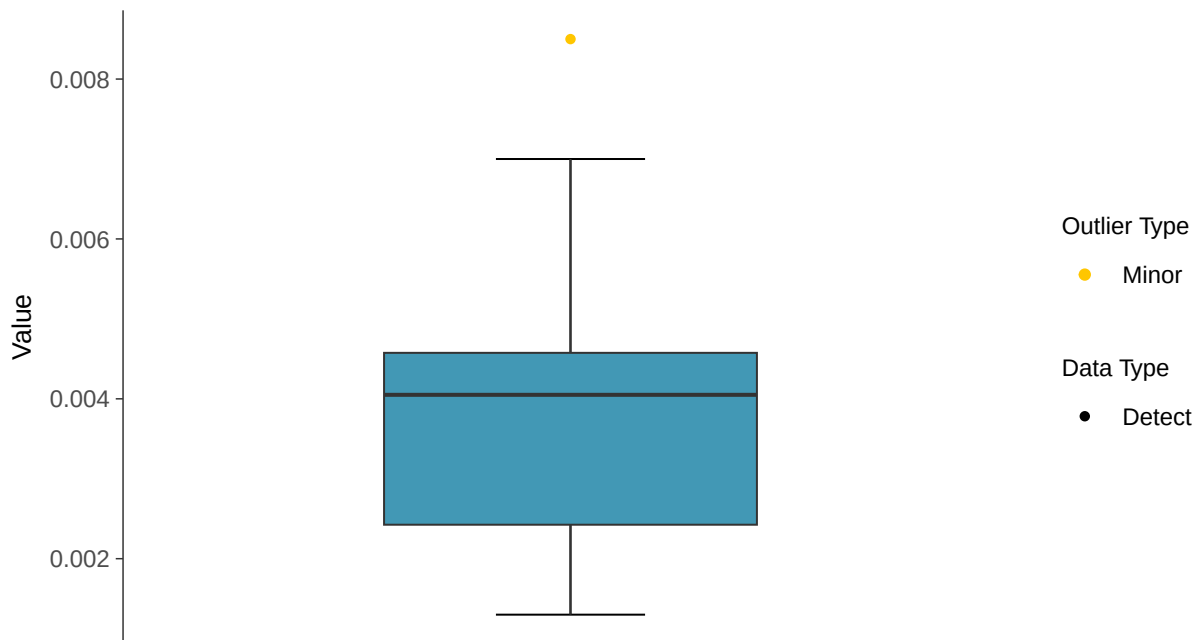
Histogram

Chromium, Total, MW-10 (mg/L)



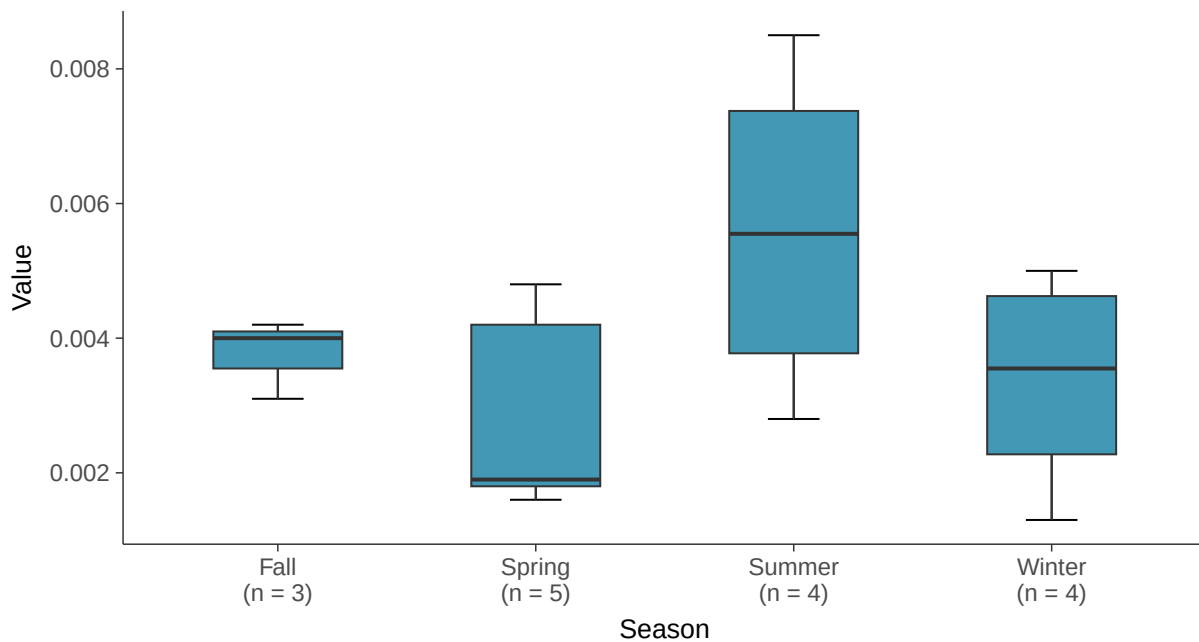
Boxplot

Chromium, Total, MW-10 (mg/L)



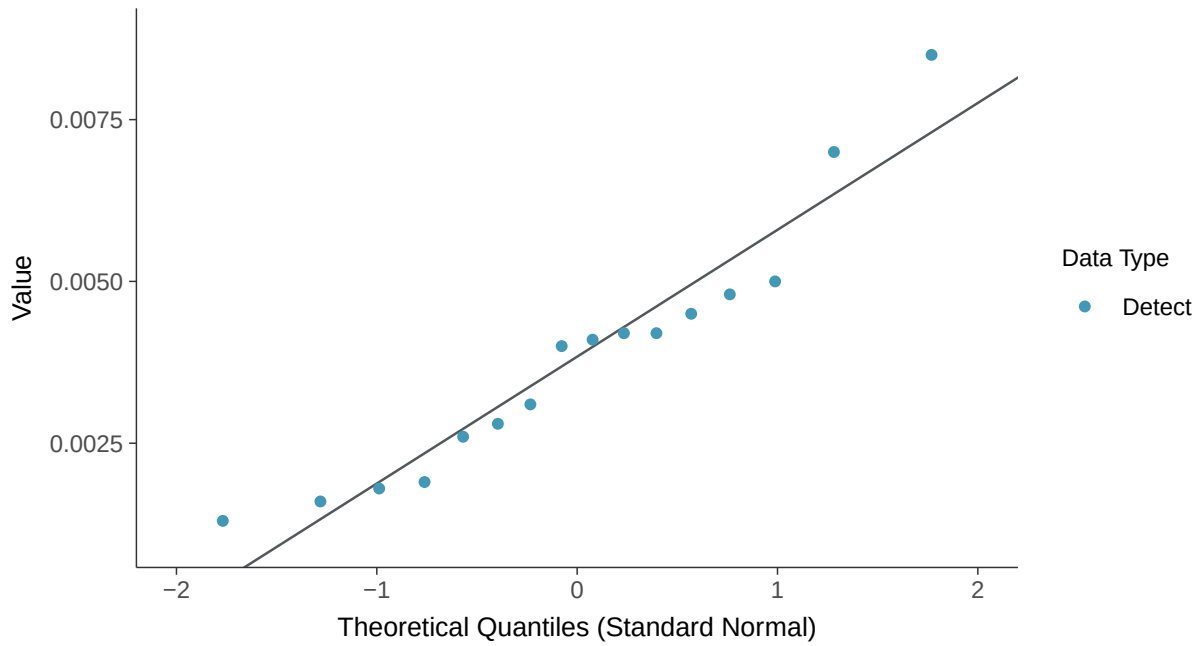
Boxplot by Season

Chromium, Total, MW-10 (mg/L)



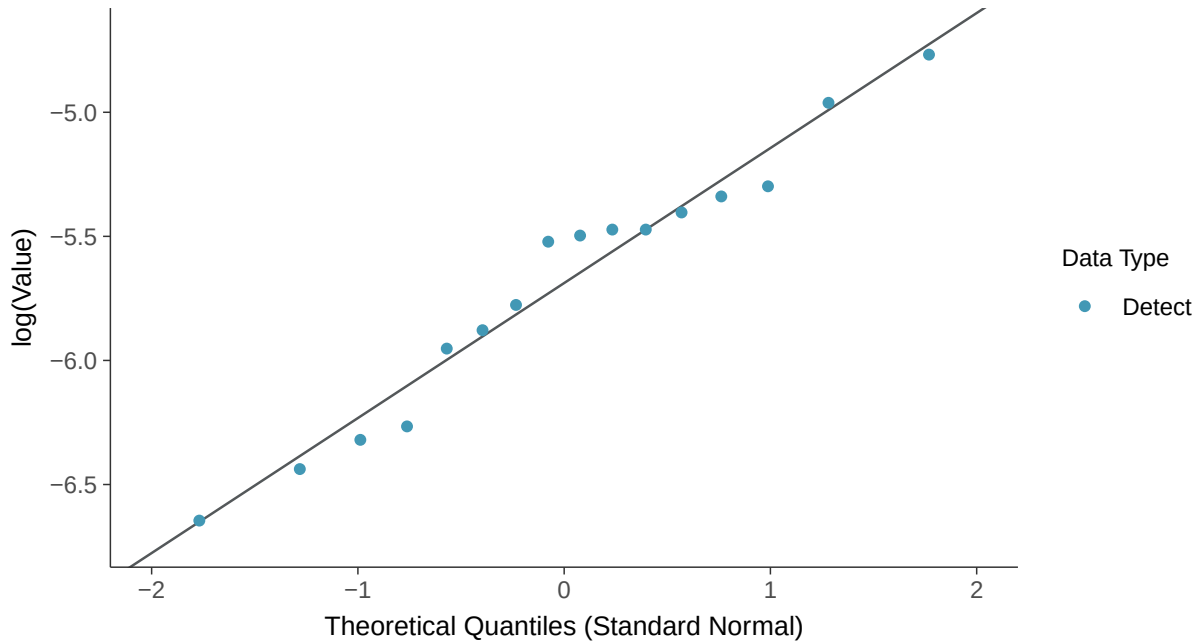
Normal Q-Q plot

Chromium, Total, MW-10 (mg/L)



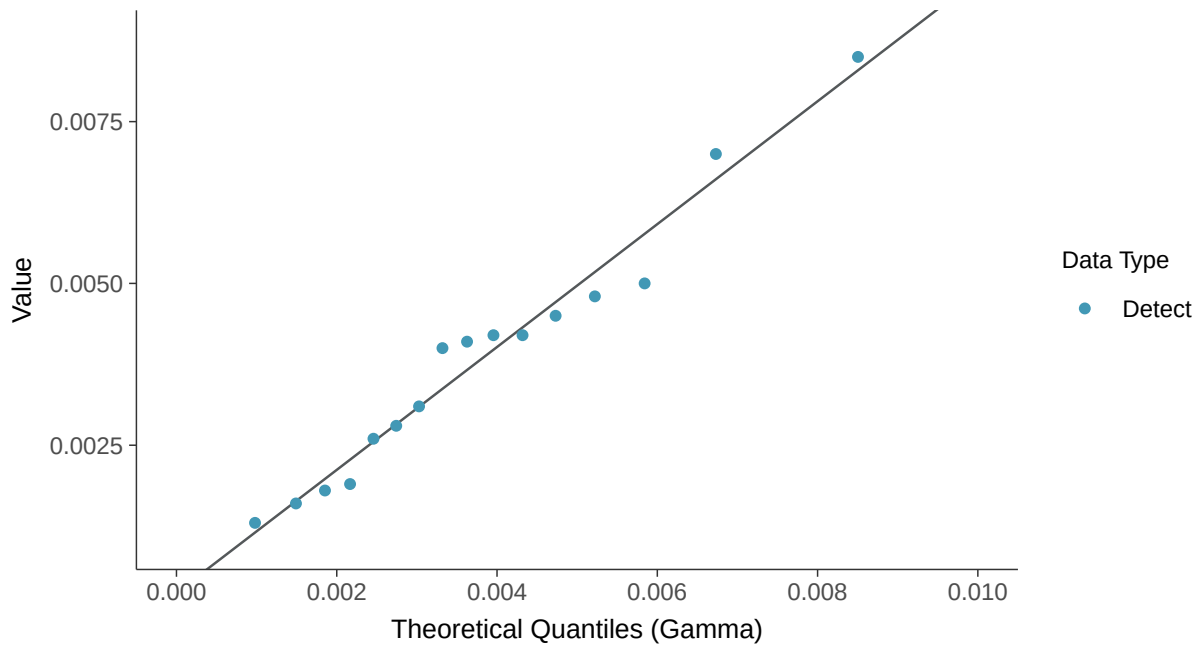
Lognormal Q-Q plot

Chromium, Total, MW-10 (mg/L)



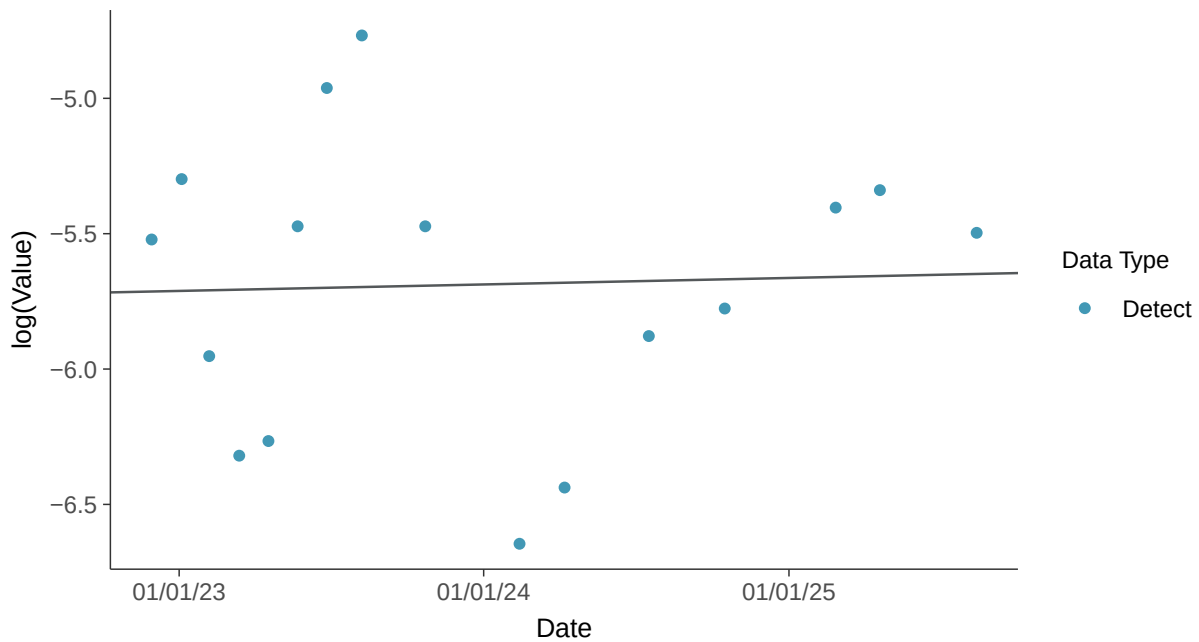
Gamma Q-Q plot

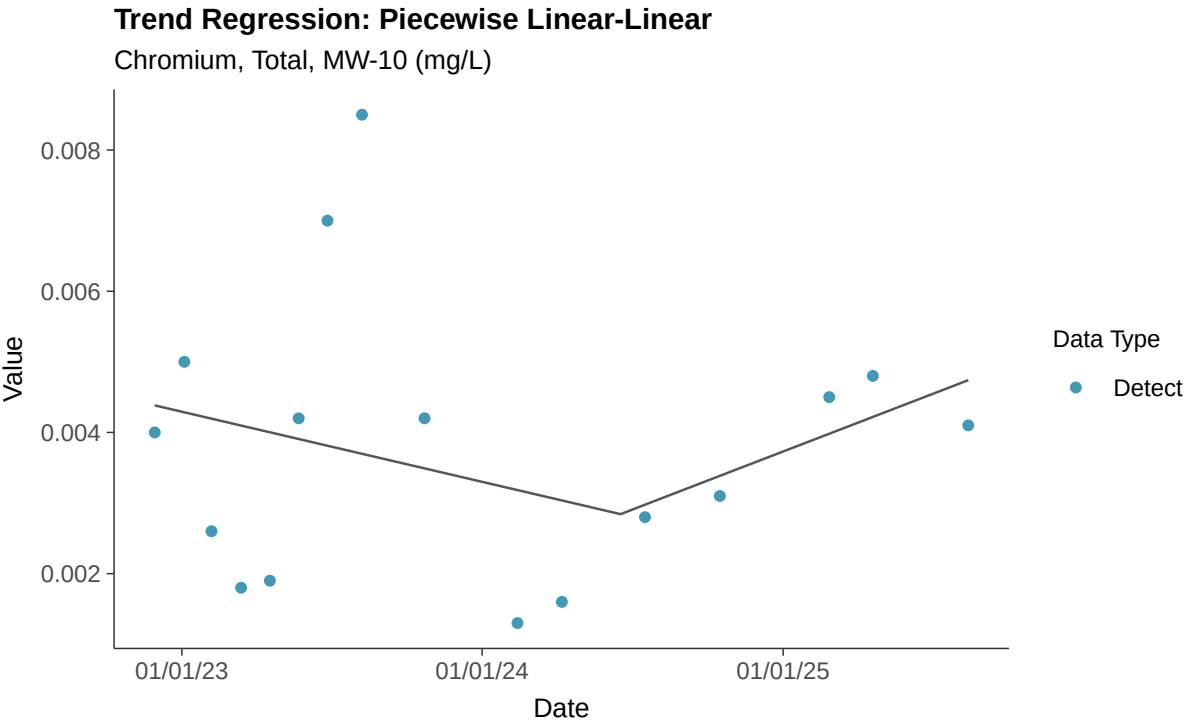
Chromium, Total, MW-10 (mg/L)



Trend Regression: Lognormal MLE

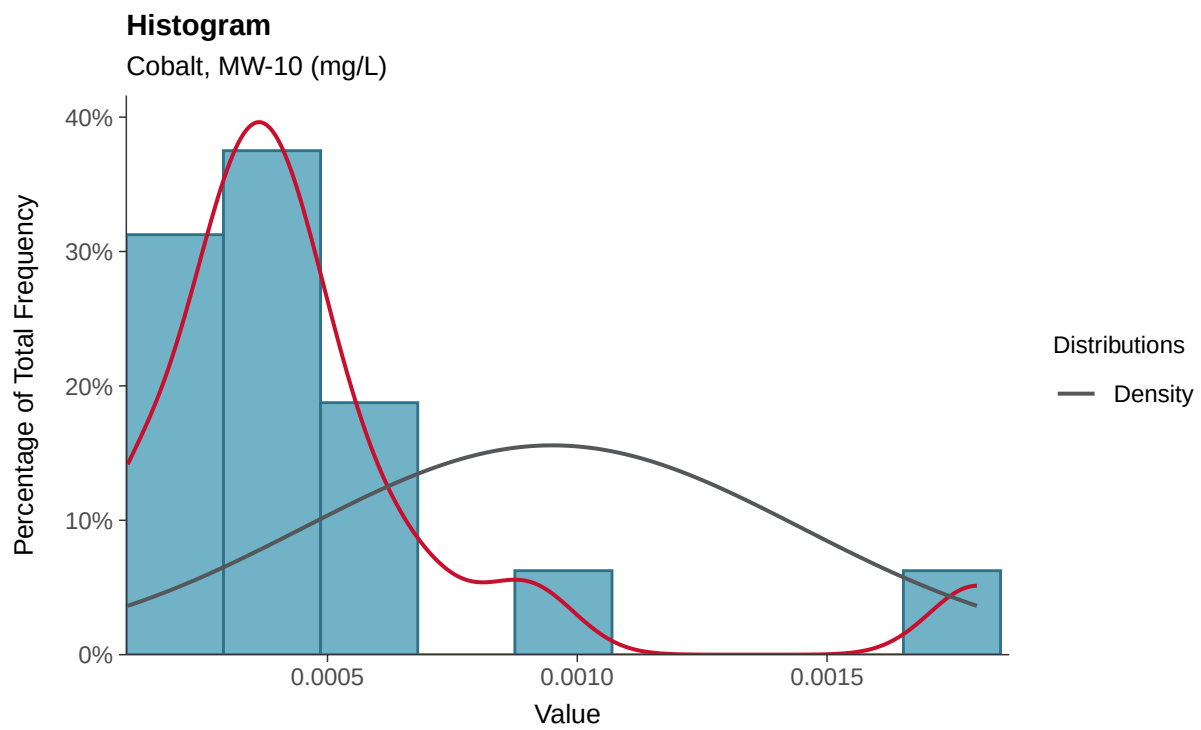
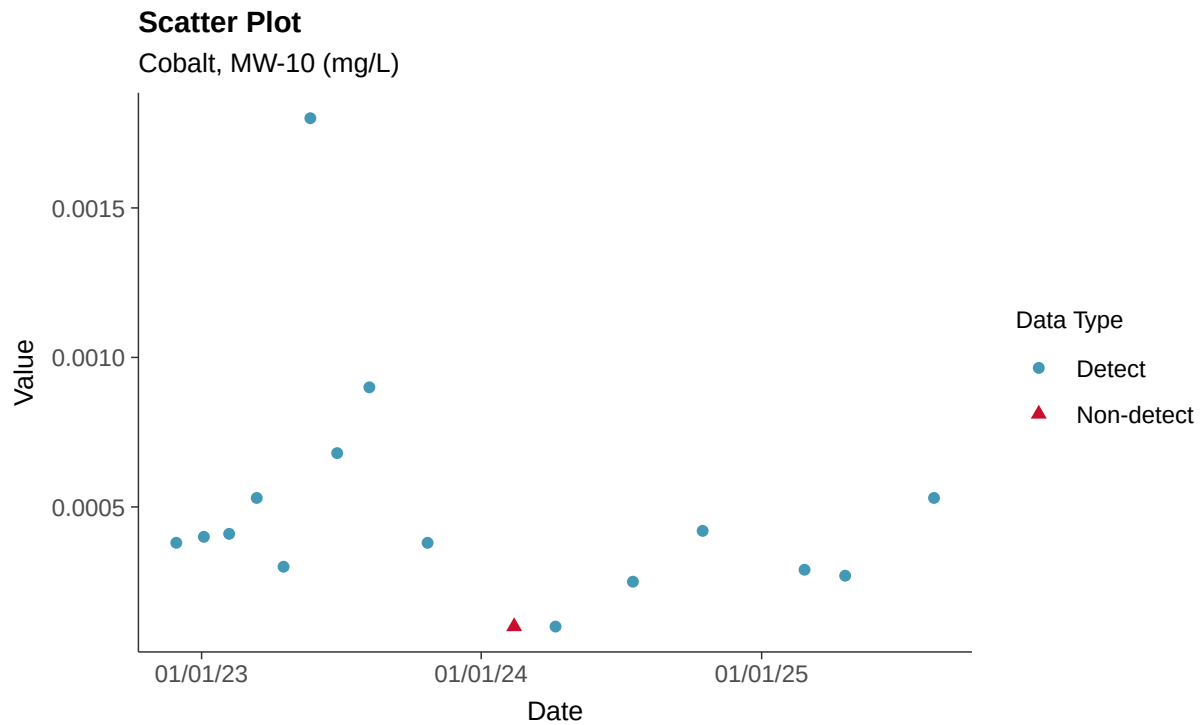
Chromium, Total, MW-10 (mg/L)





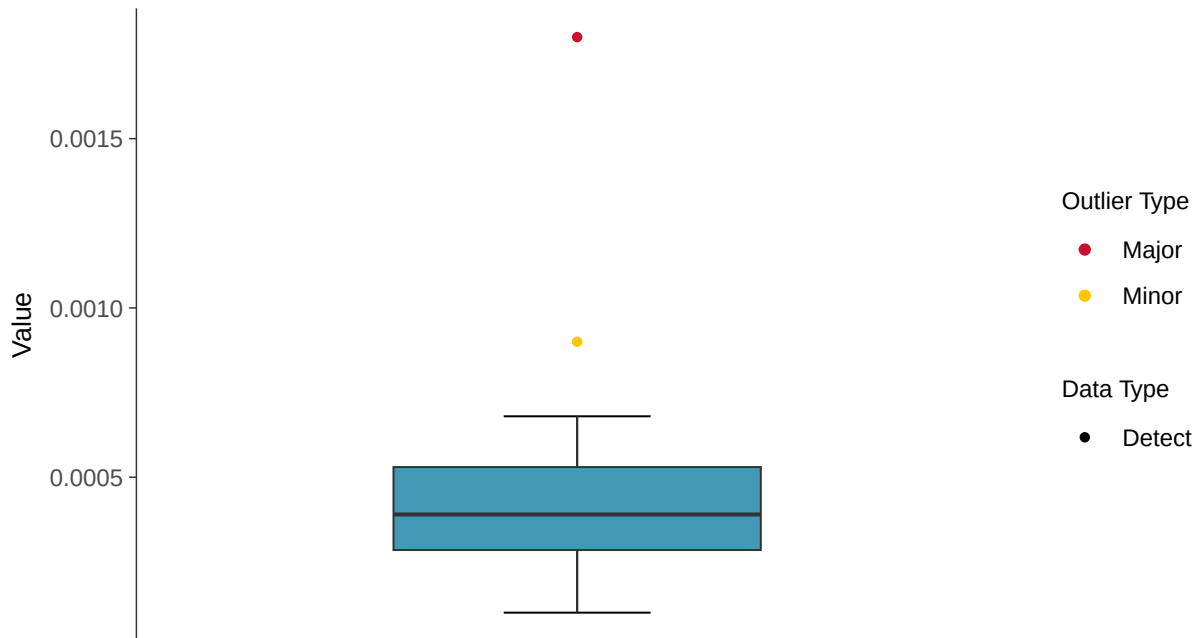
Appendix IV: Cobalt, MW-10

ID: 20_3_4_110



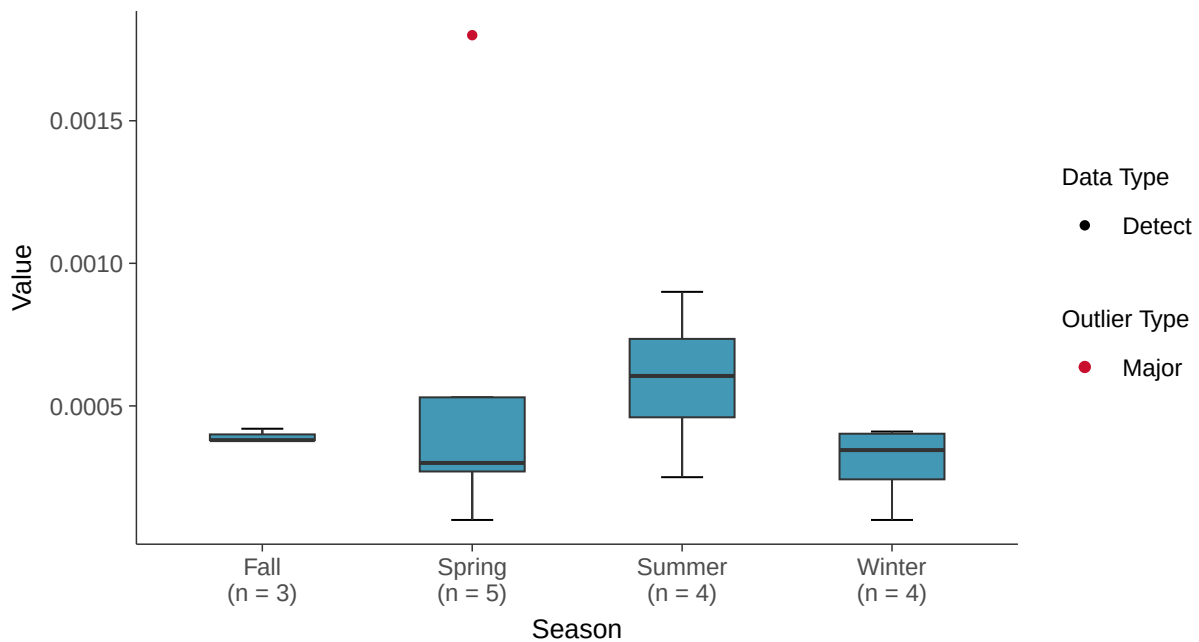
Boxplot

Cobalt, MW-10 (mg/L)



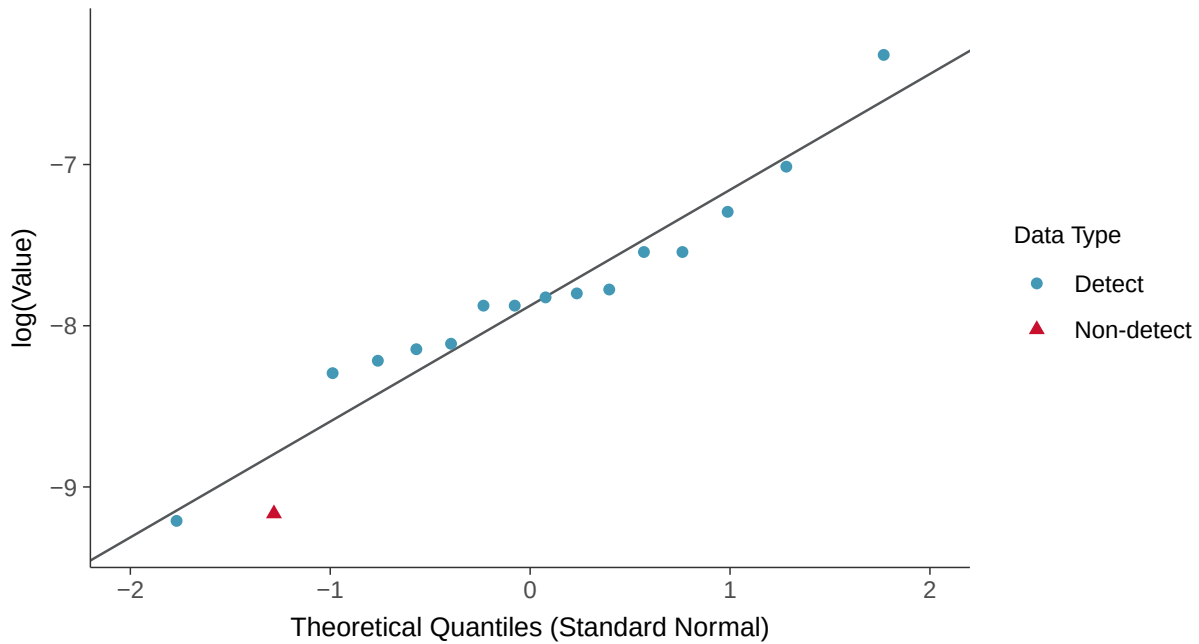
Boxplot by Season

Cobalt, MW-10 (mg/L)



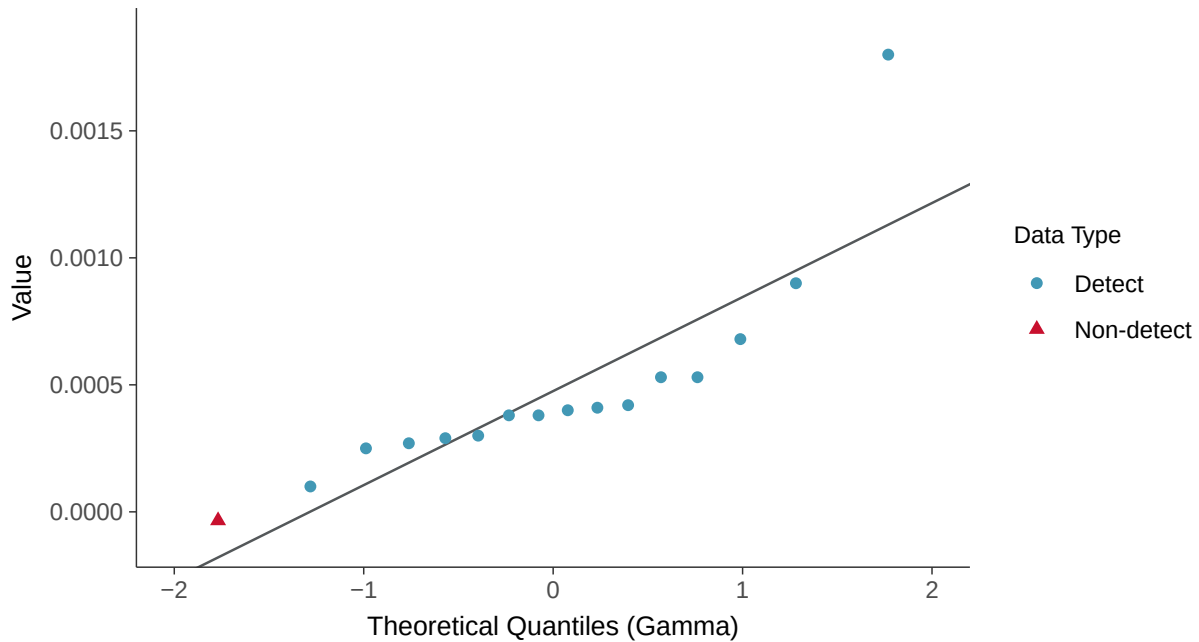
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-10 (mg/L)



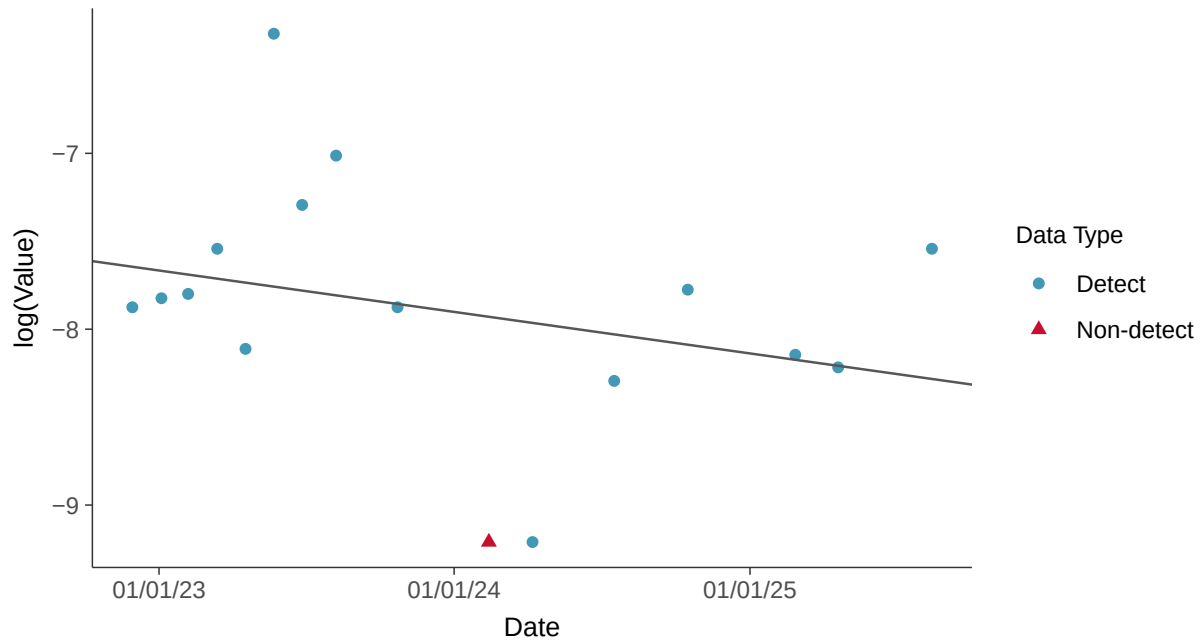
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-10 (mg/L)



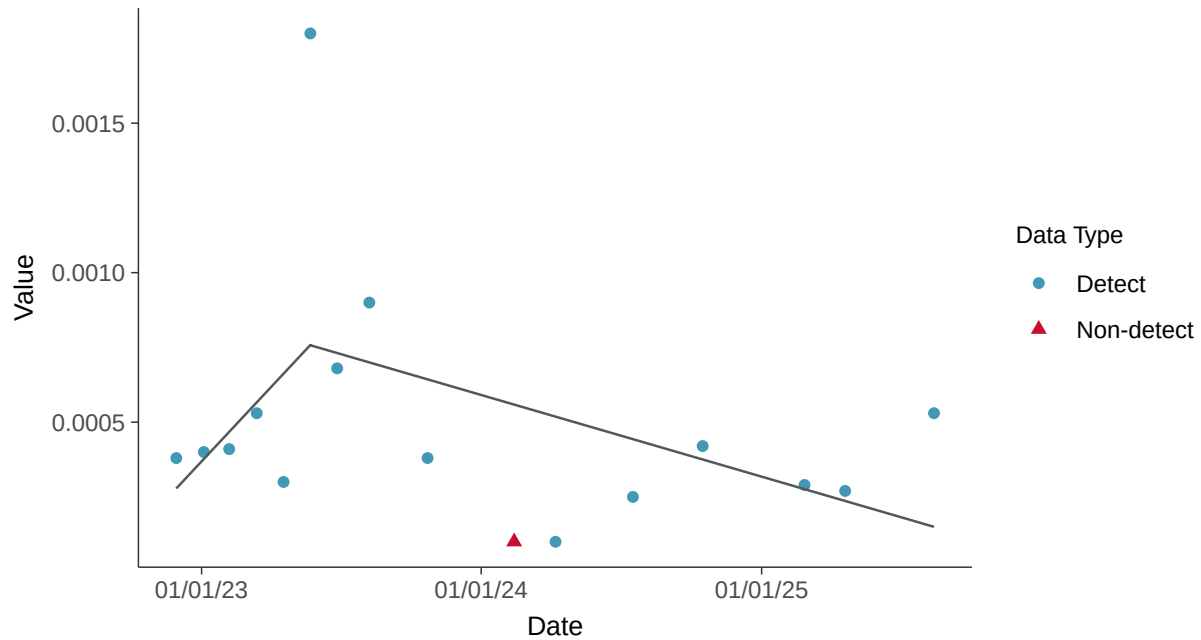
Trend Regression: Lognormal MLE

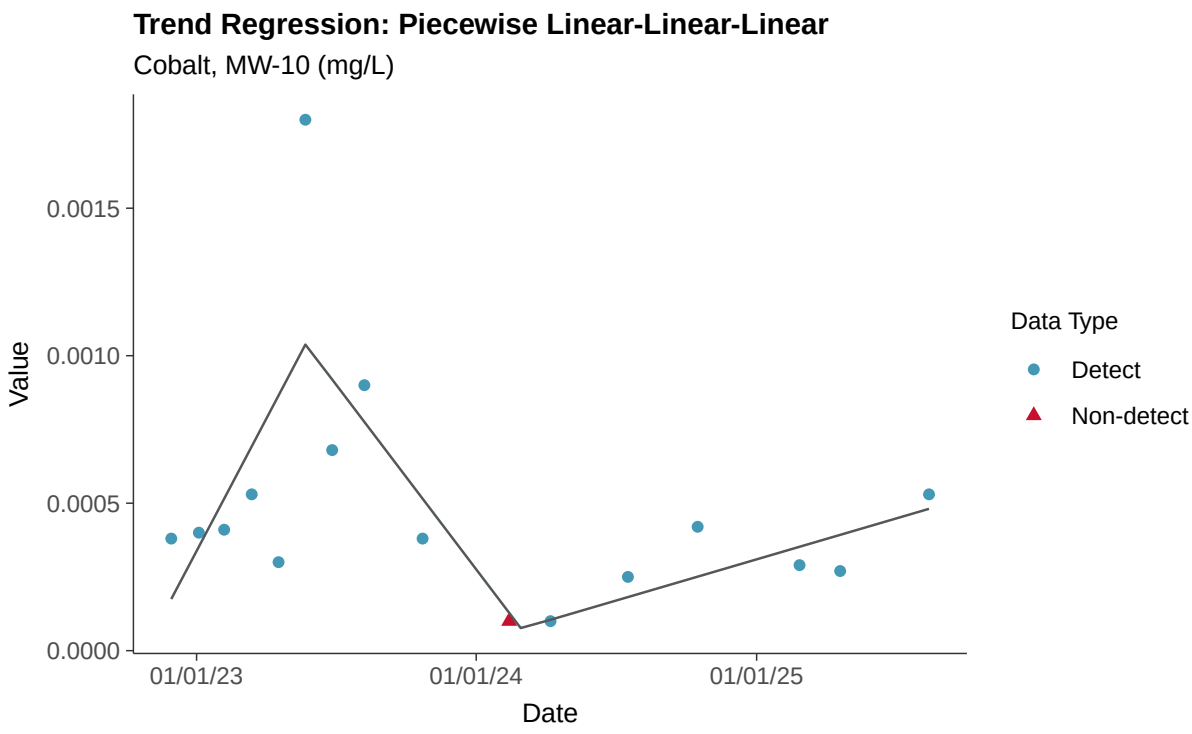
Cobalt, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cobalt, MW-10 (mg/L)



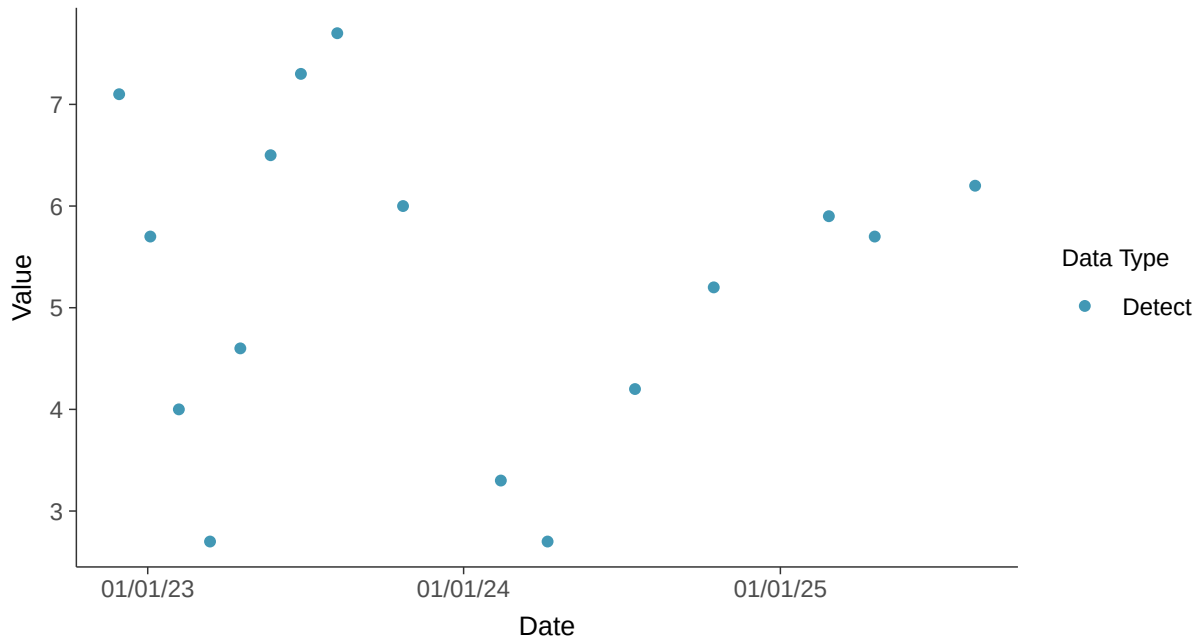


Appendix IV: Fluoride (App IV), MW-10

ID: 20_3_4_113

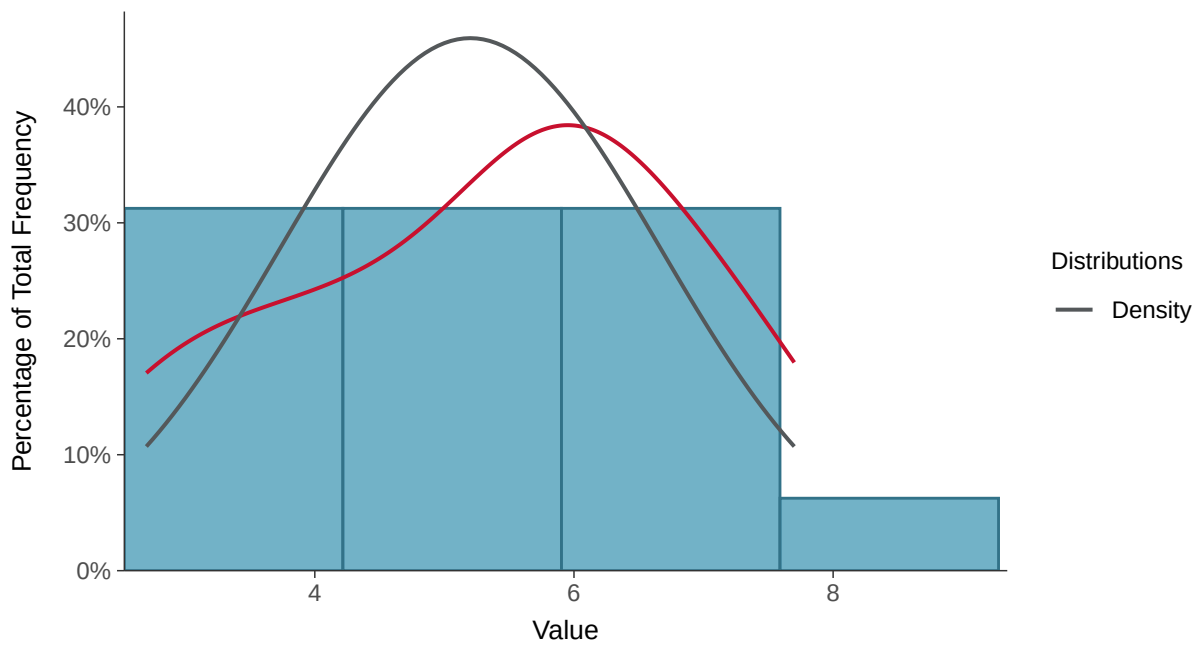
Scatter Plot

Fluoride (App IV), MW-10 (mg/L)



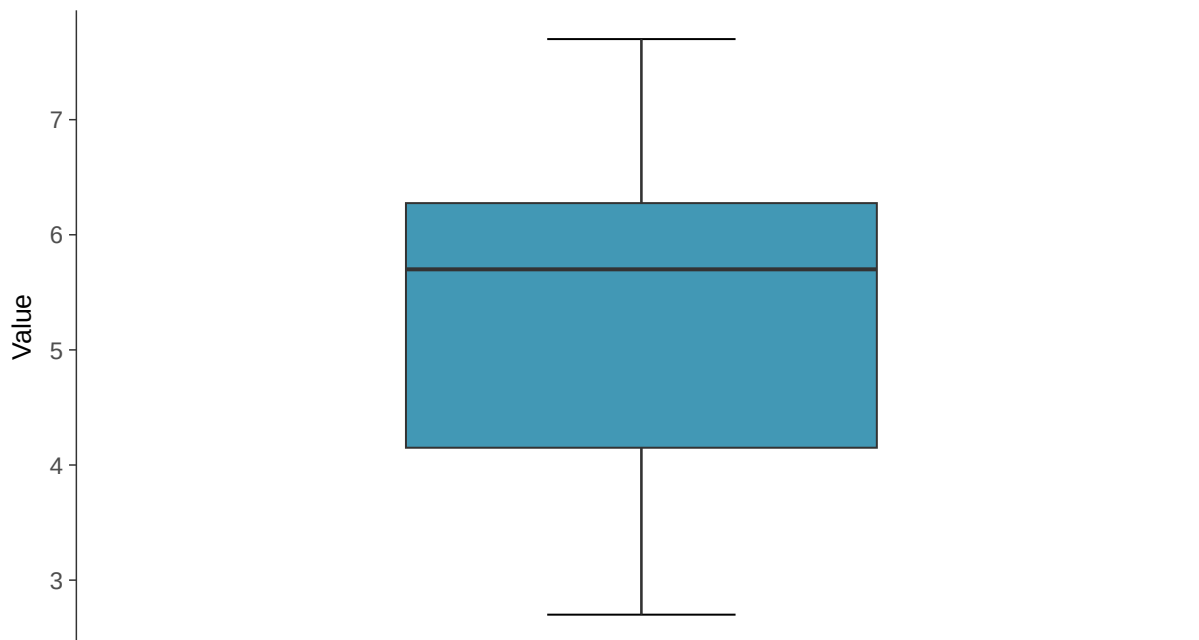
Histogram

Fluoride (App IV), MW-10 (mg/L)



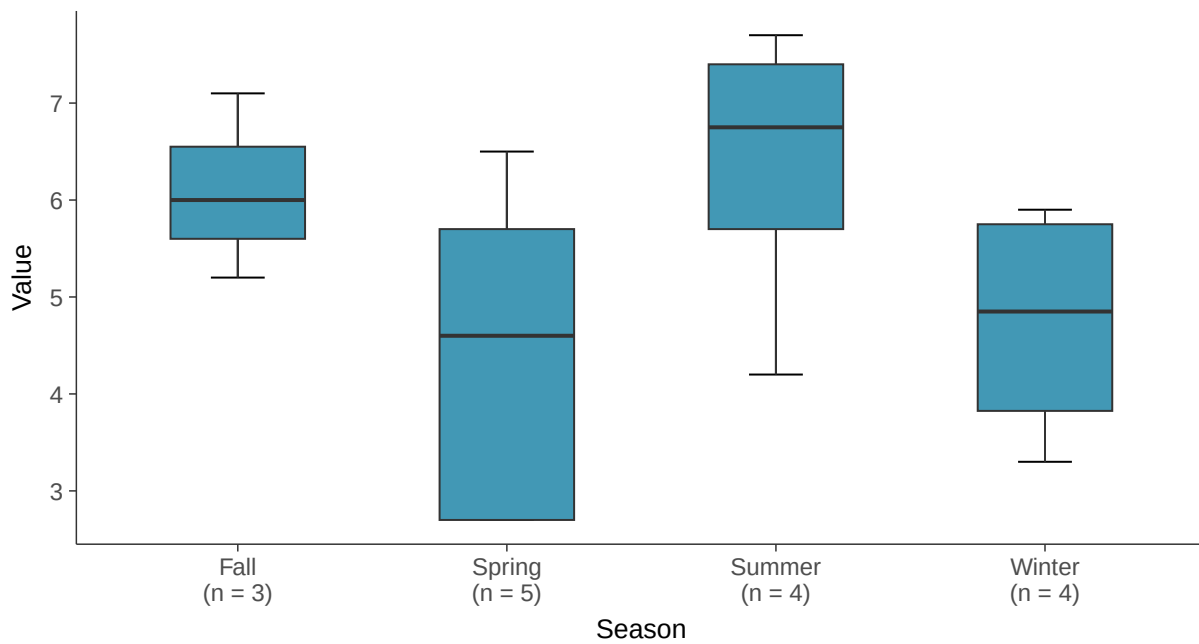
Boxplot

Fluoride (App IV), MW-10 (mg/L)



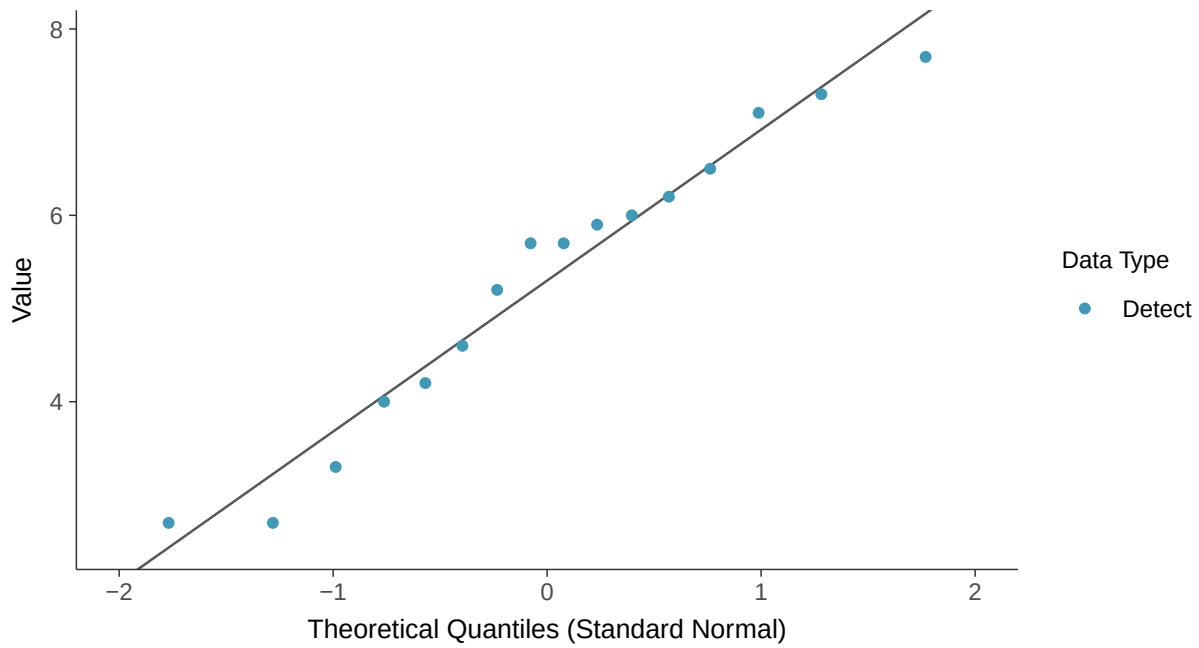
Boxplot by Season

Fluoride (App IV), MW-10 (mg/L)



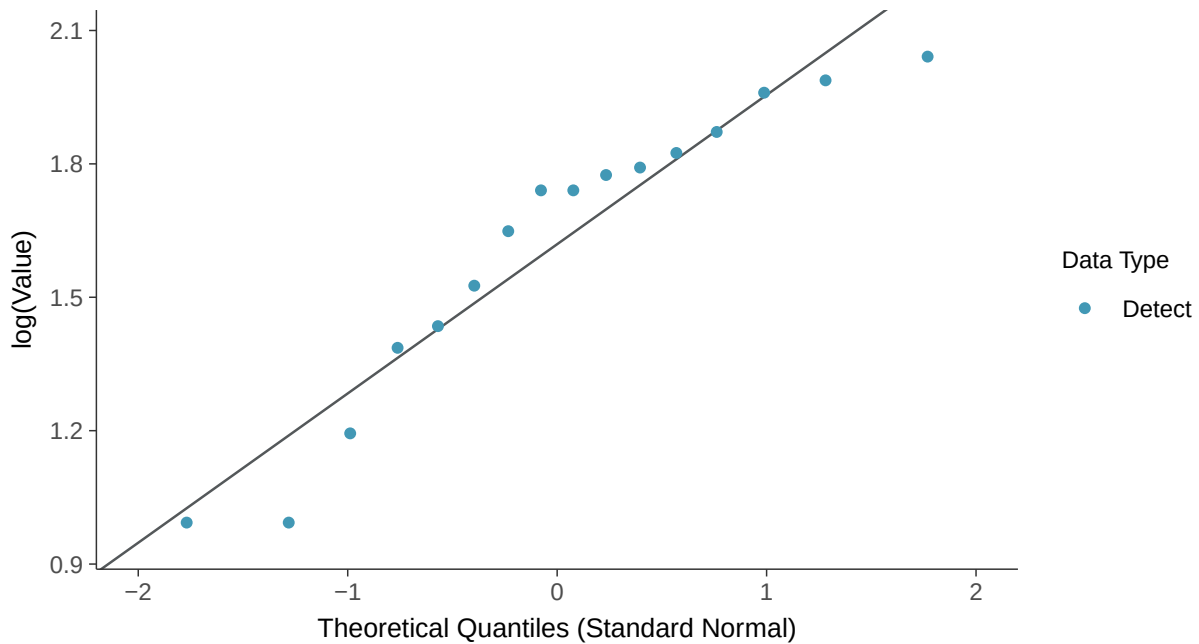
Normal Q-Q plot

Fluoride (App IV), MW-10 (mg/L)



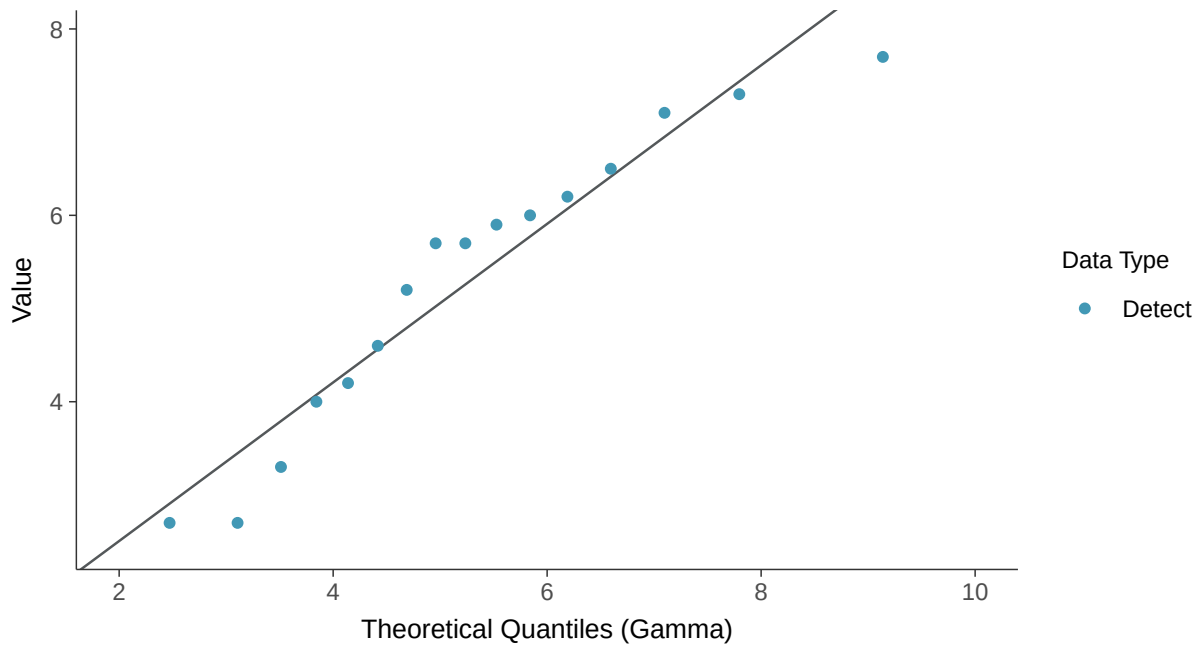
Lognormal Q-Q plot

Fluoride (App IV), MW-10 (mg/L)



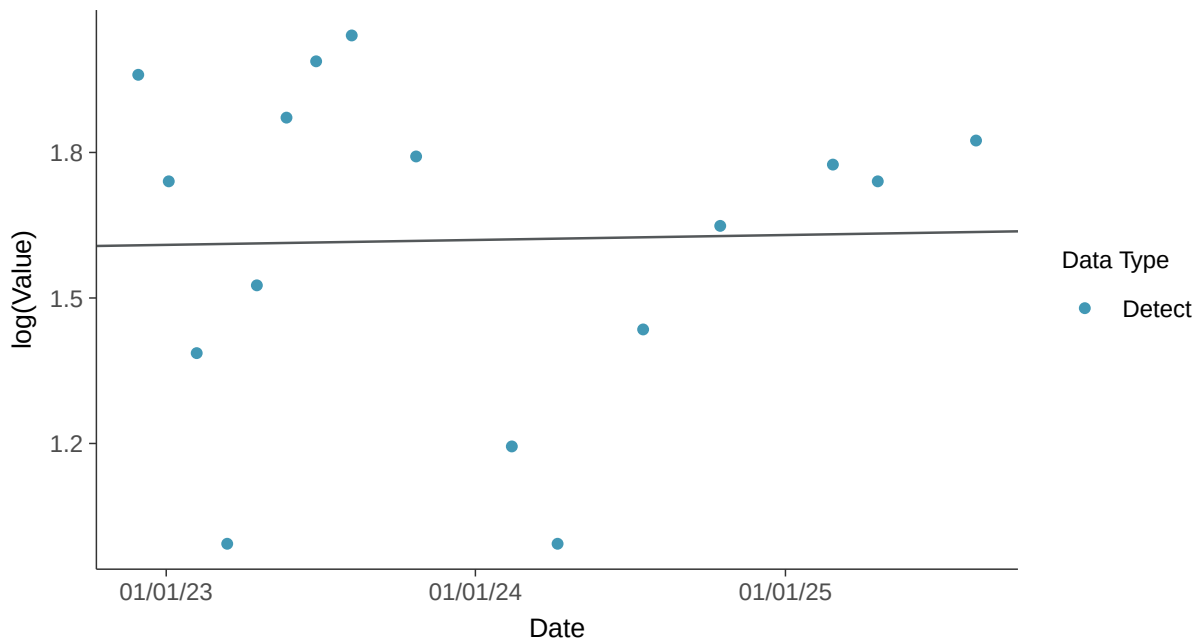
Gamma Q-Q plot

Fluoride (App IV), MW-10 (mg/L)



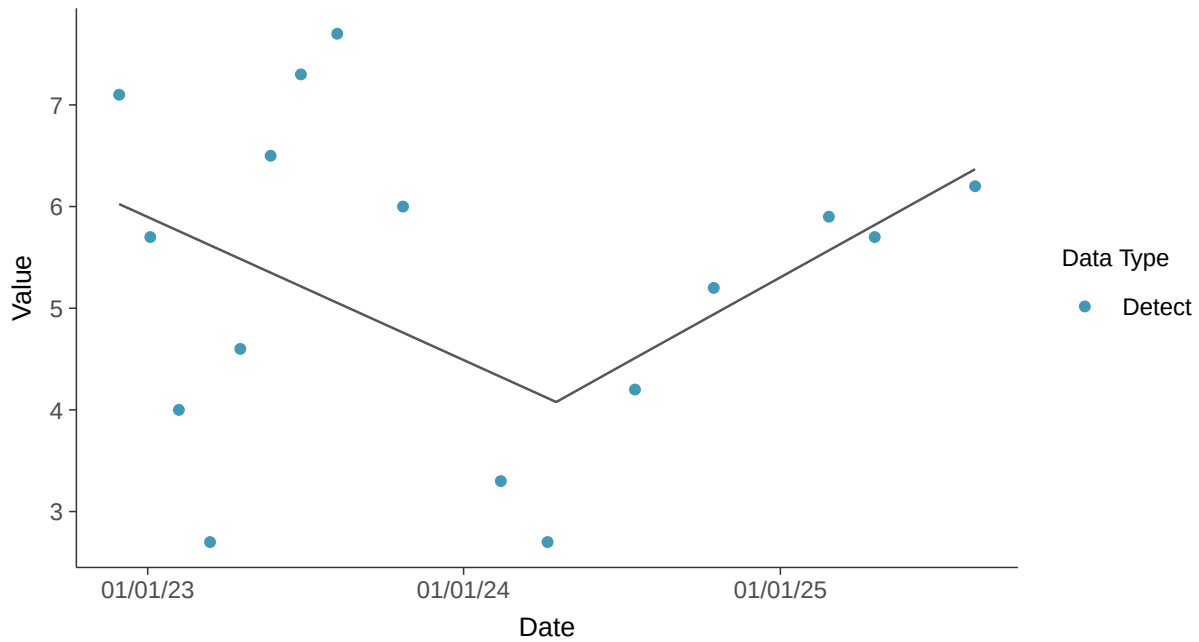
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-10 (mg/L)



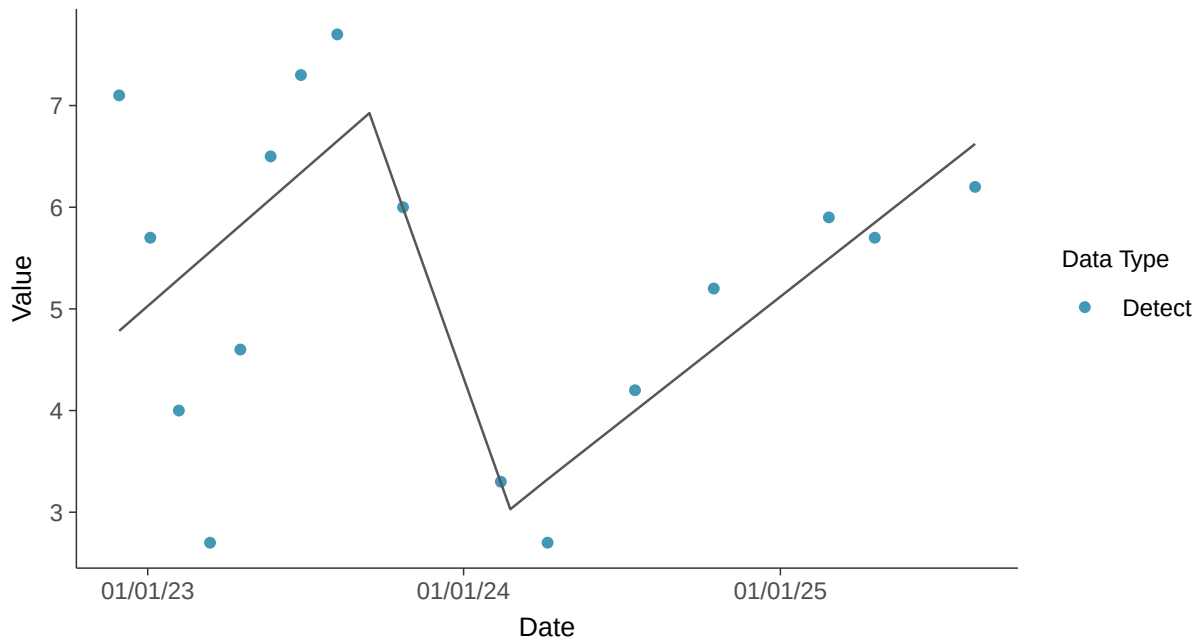
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-10 (mg/L)



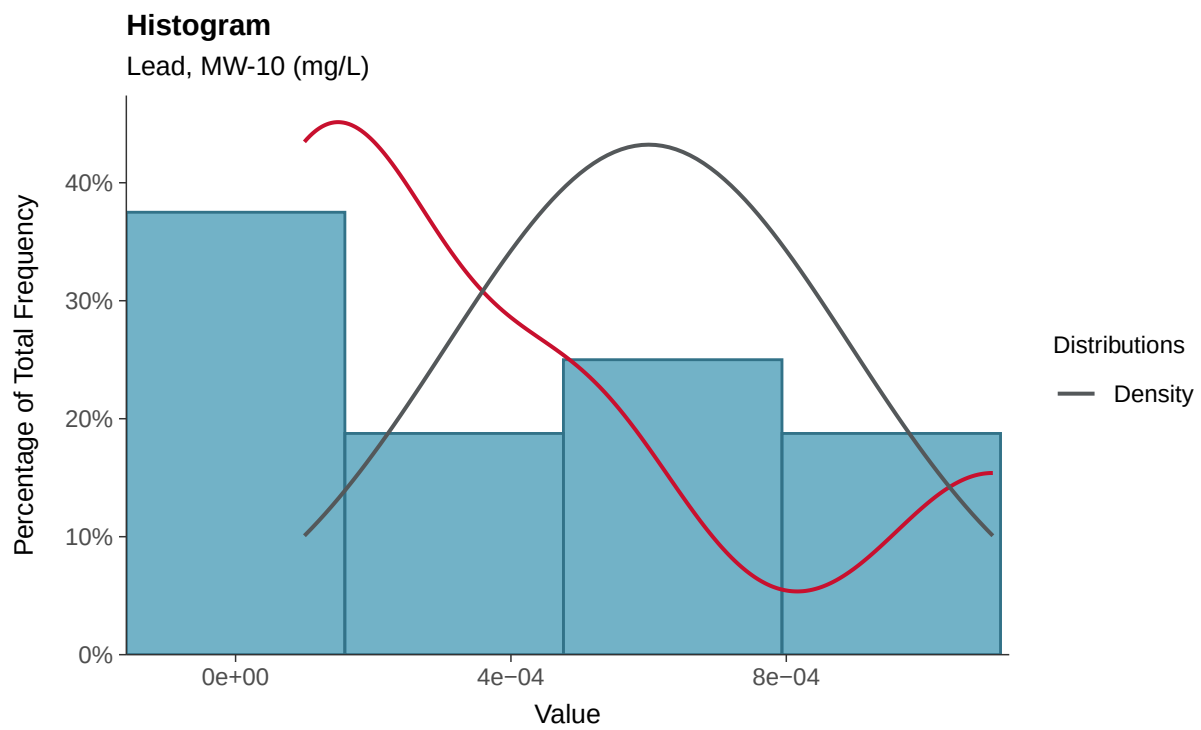
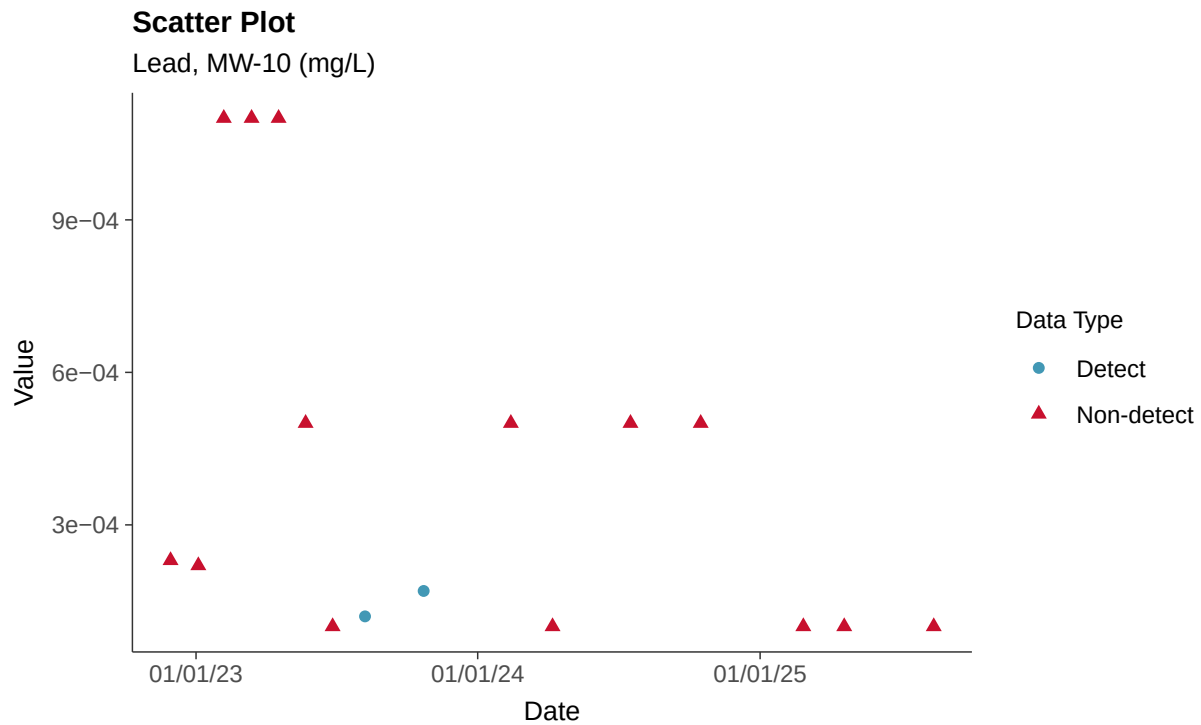
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-10 (mg/L)



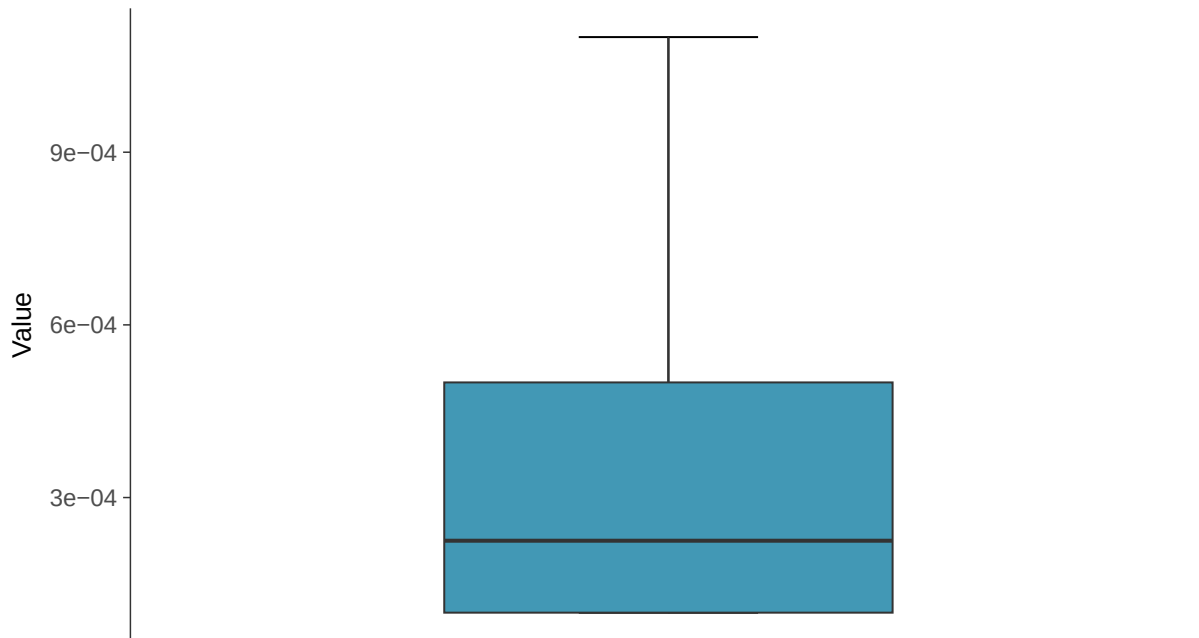
Appendix IV: Lead, MW-10

ID: 20_3_4_115



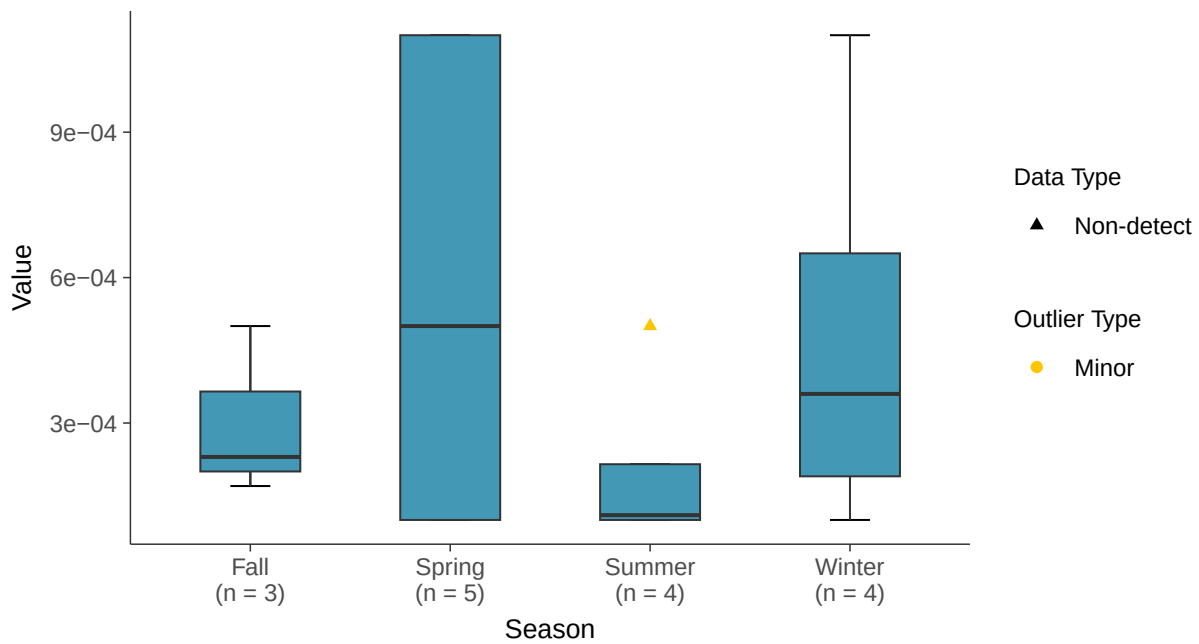
Boxplot

Lead, MW-10 (mg/L)



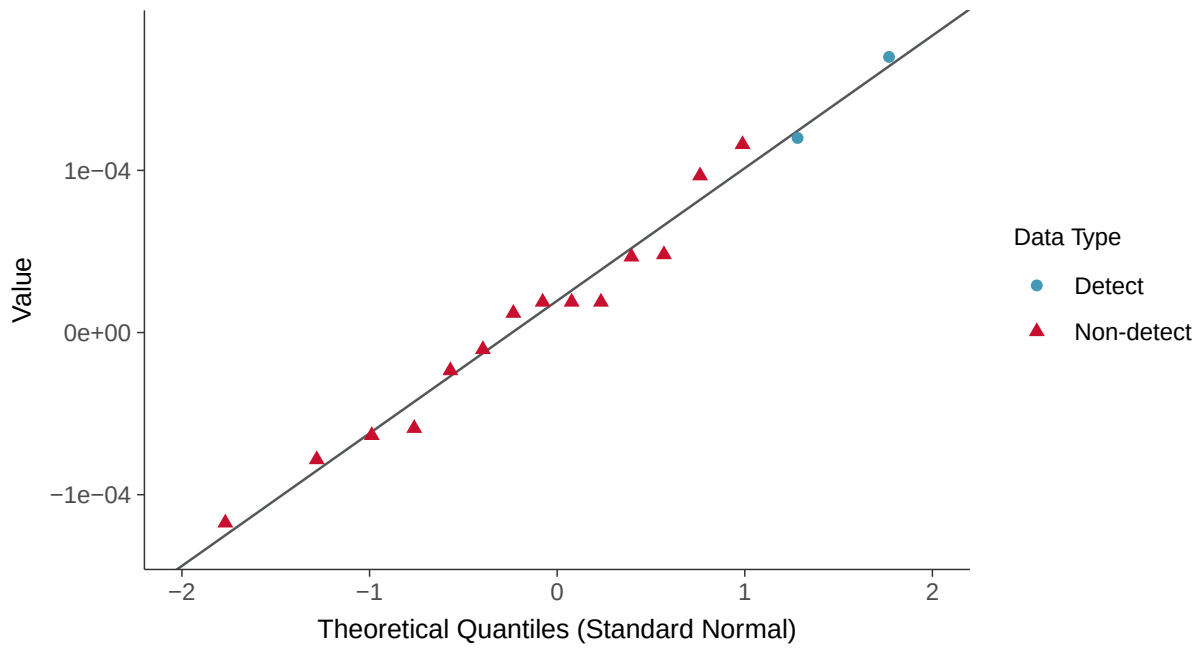
Boxplot by Season

Lead, MW-10 (mg/L)



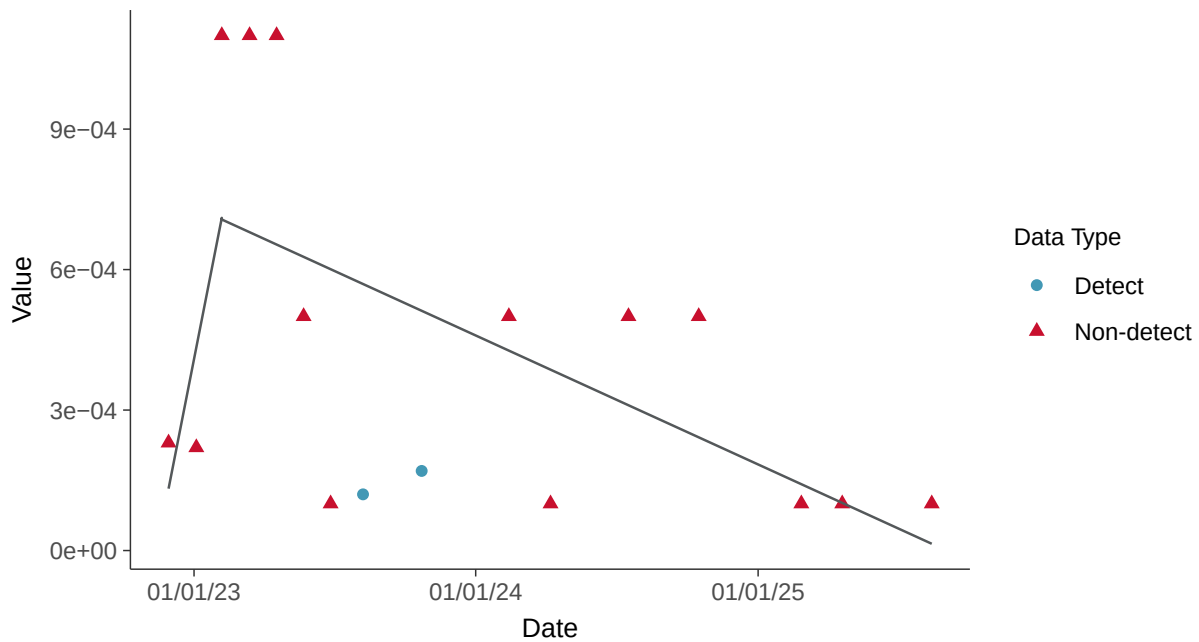
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-10 (mg/L)

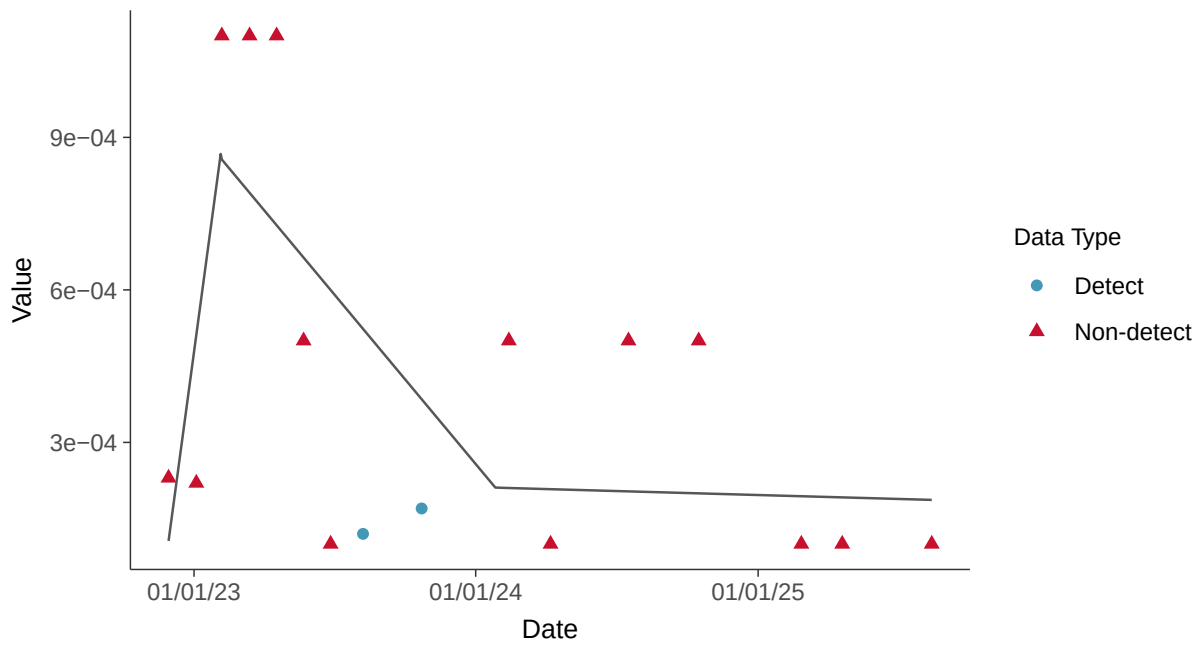


Trend Regression: Piecewise Linear-Linear

Lead, MW-10 (mg/L)

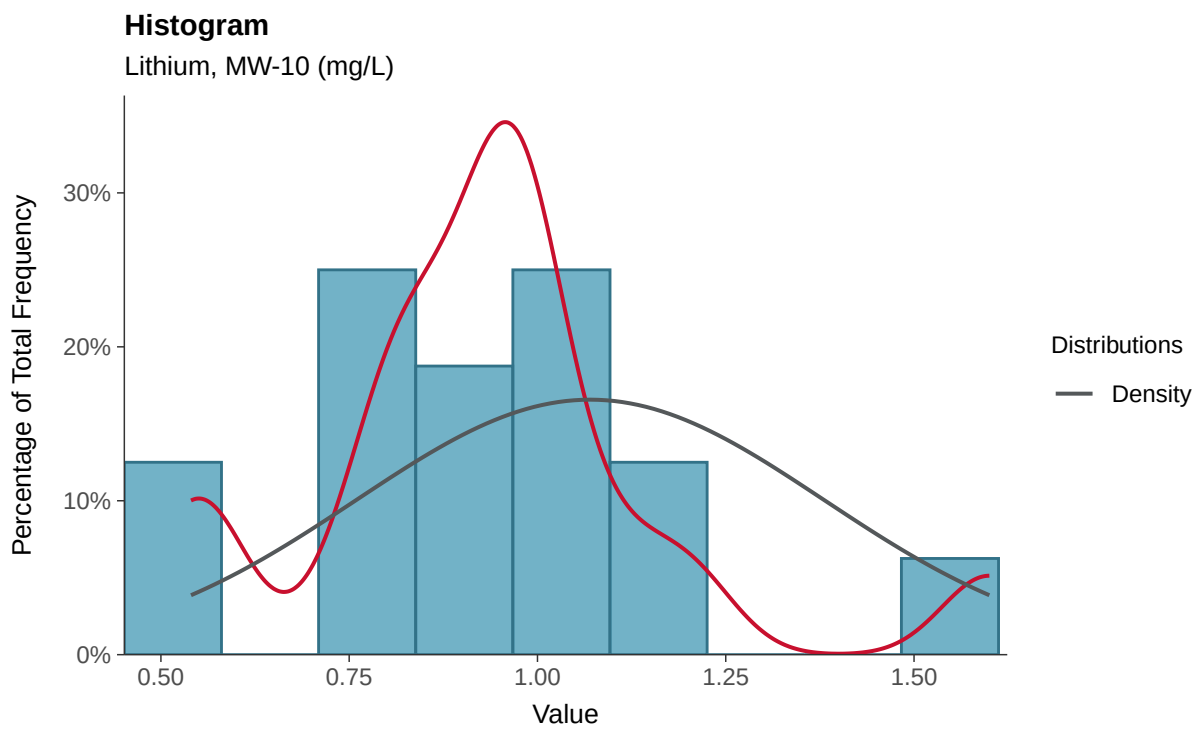
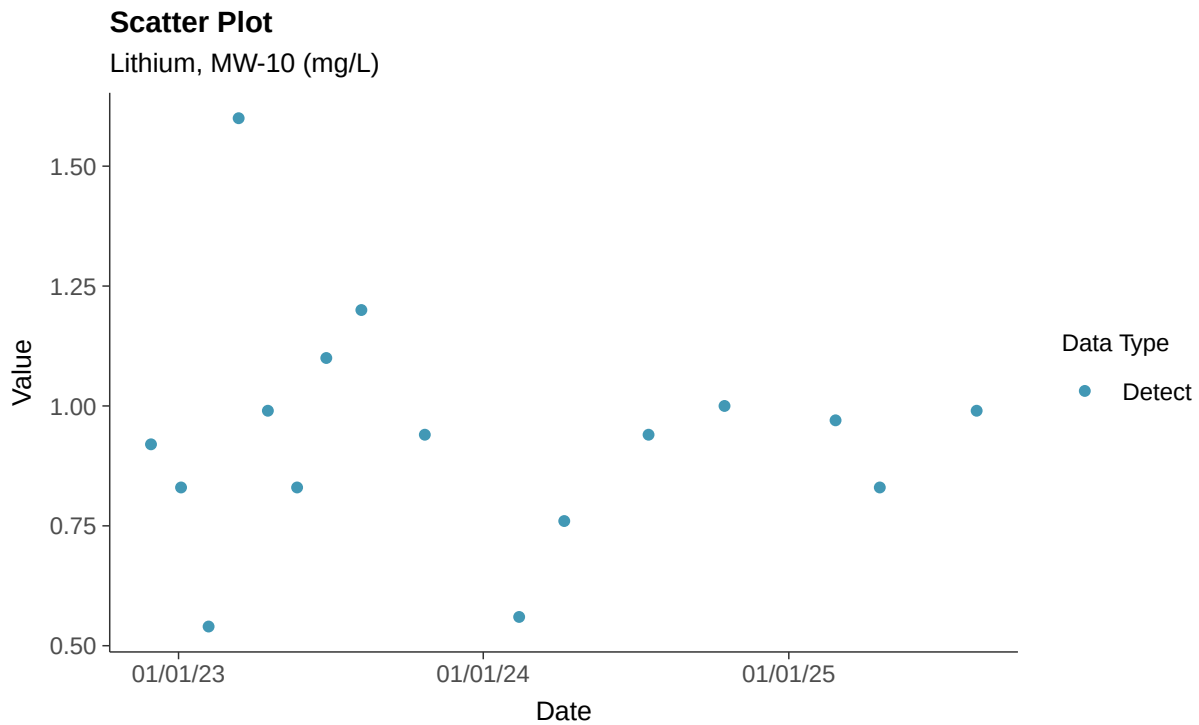


Lead, MW-10 (mg/L)



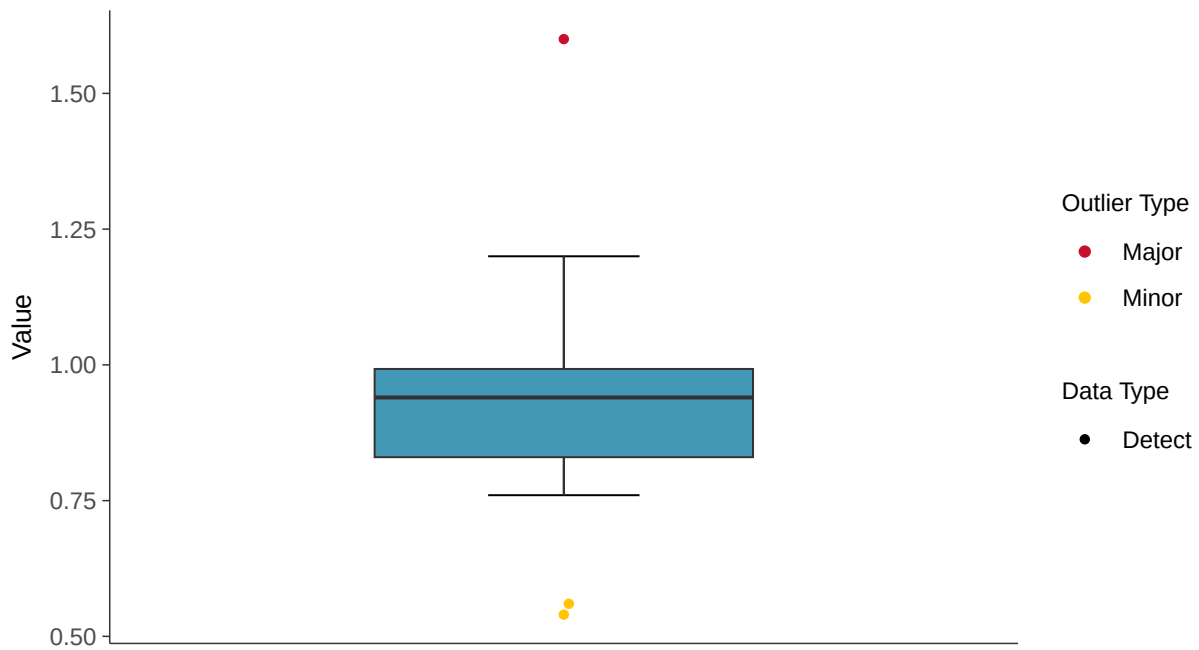
Appendix IV: Lithium, MW-10

ID: 20_3_4_116



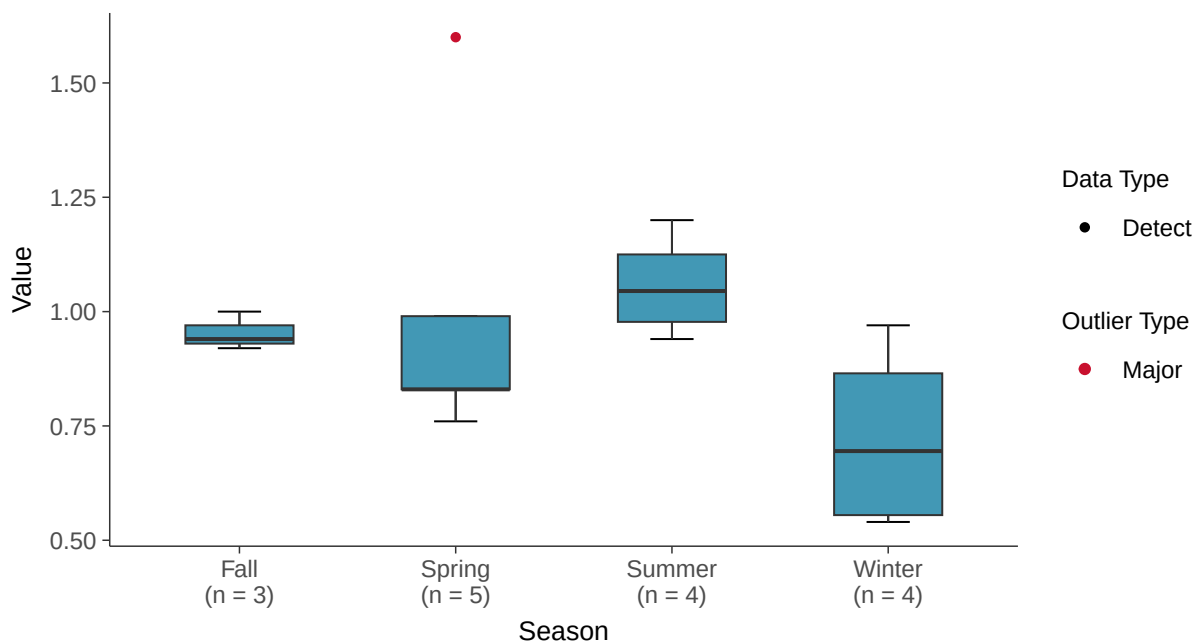
Boxplot

Lithium, MW-10 (mg/L)



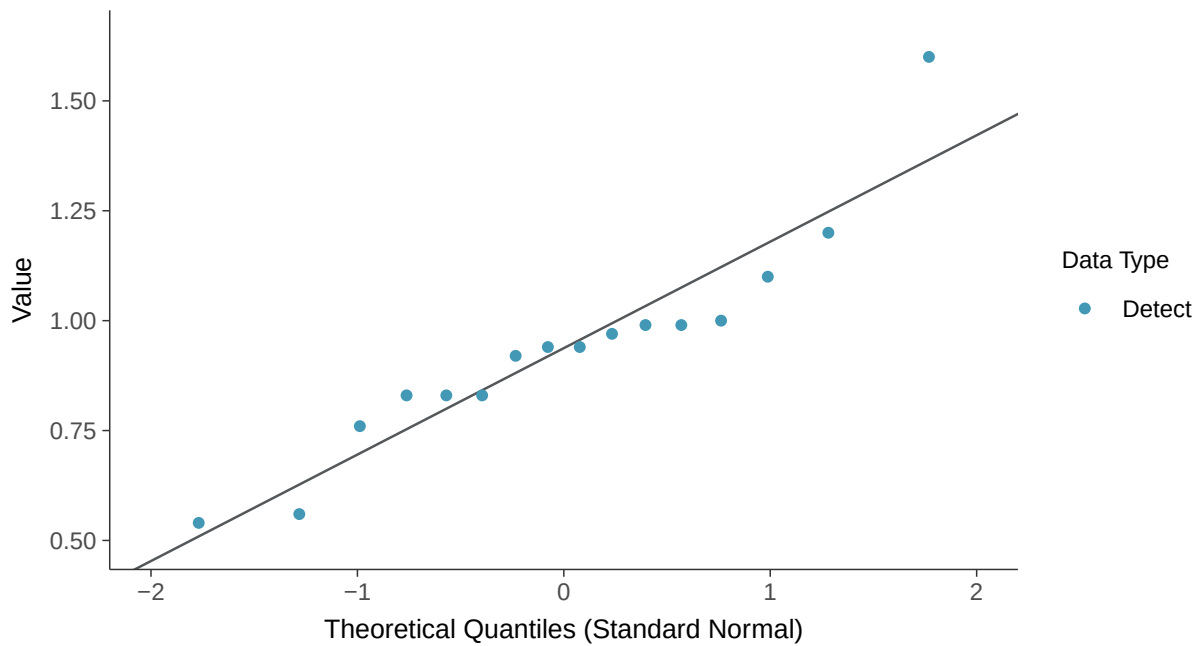
Boxplot by Season

Lithium, MW-10 (mg/L)



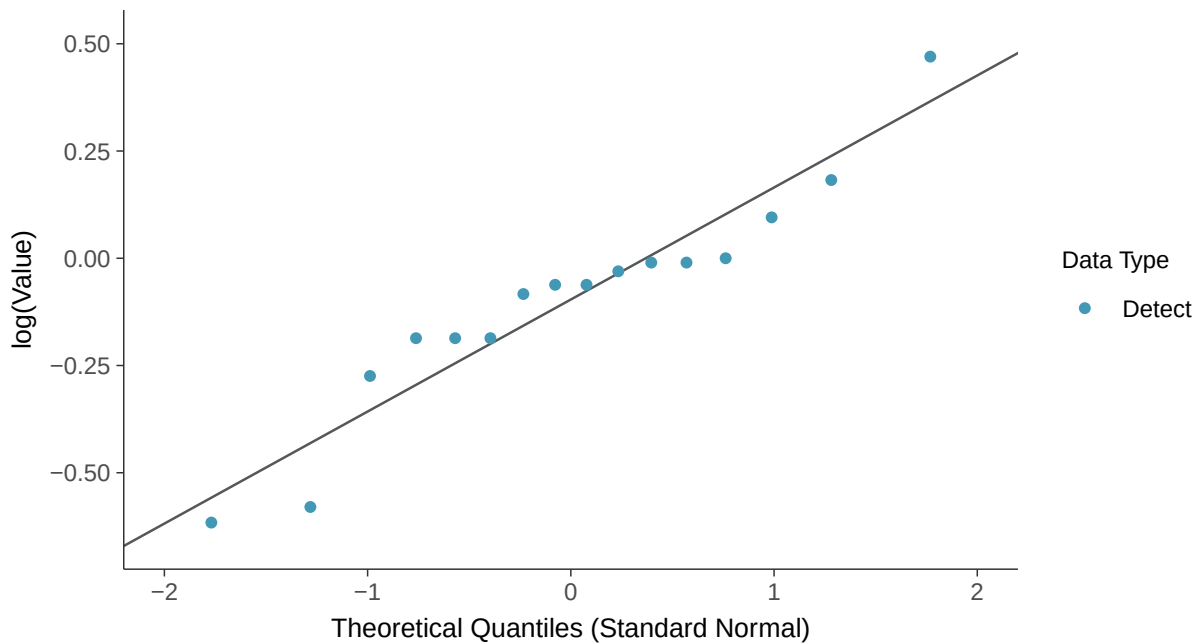
Normal Q-Q plot

Lithium, MW-10 (mg/L)



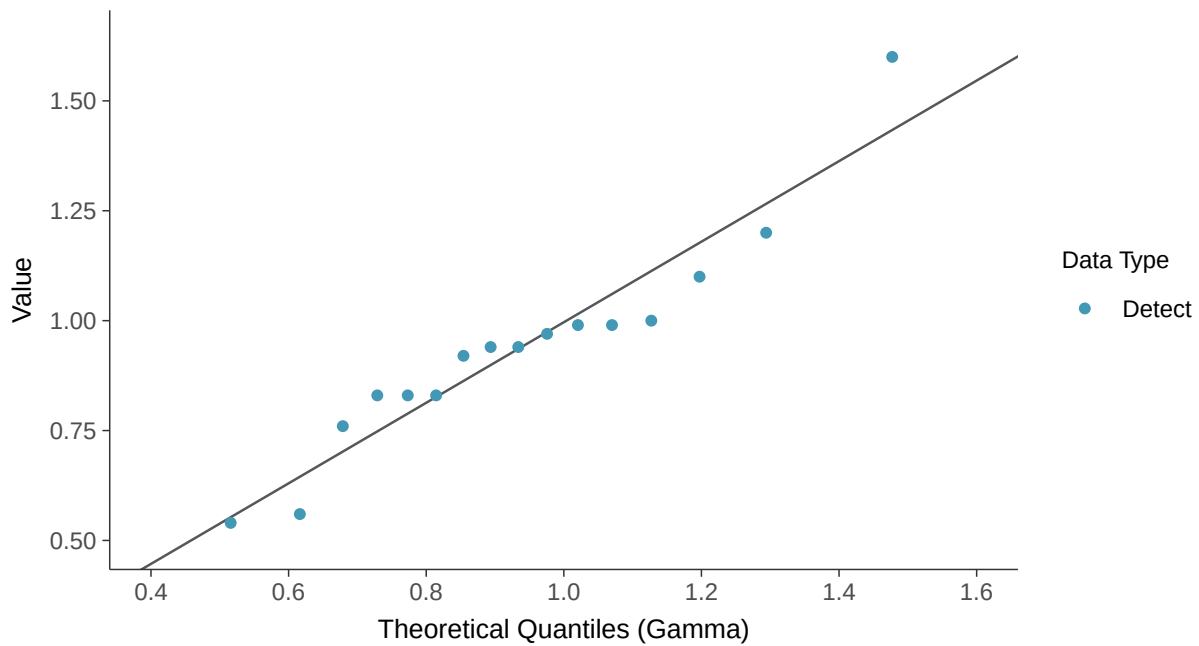
Lognormal Q-Q plot

Lithium, MW-10 (mg/L)



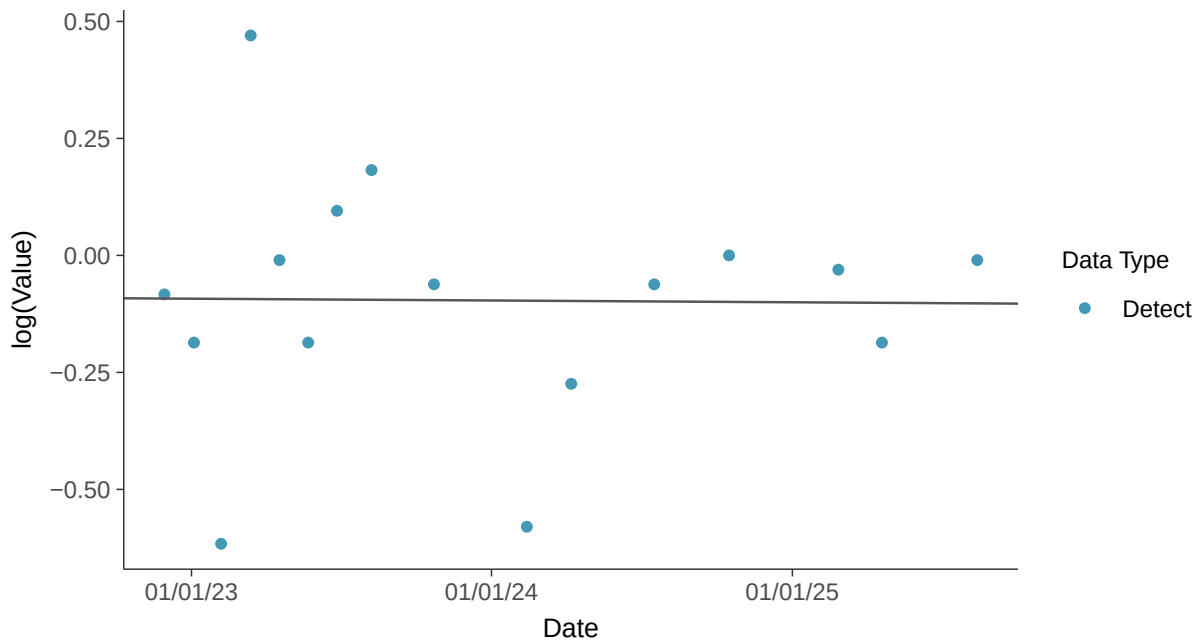
Gamma Q-Q plot

Lithium, MW-10 (mg/L)



Trend Regression: Lognormal MLE

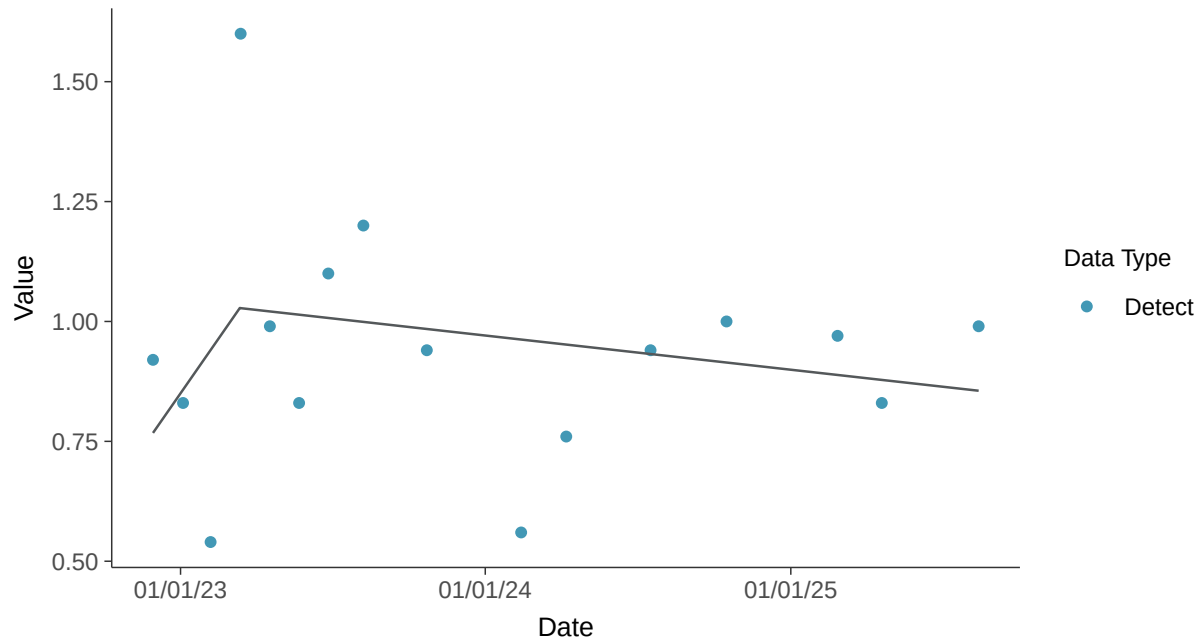
Lithium, MW-10 (mg/L)

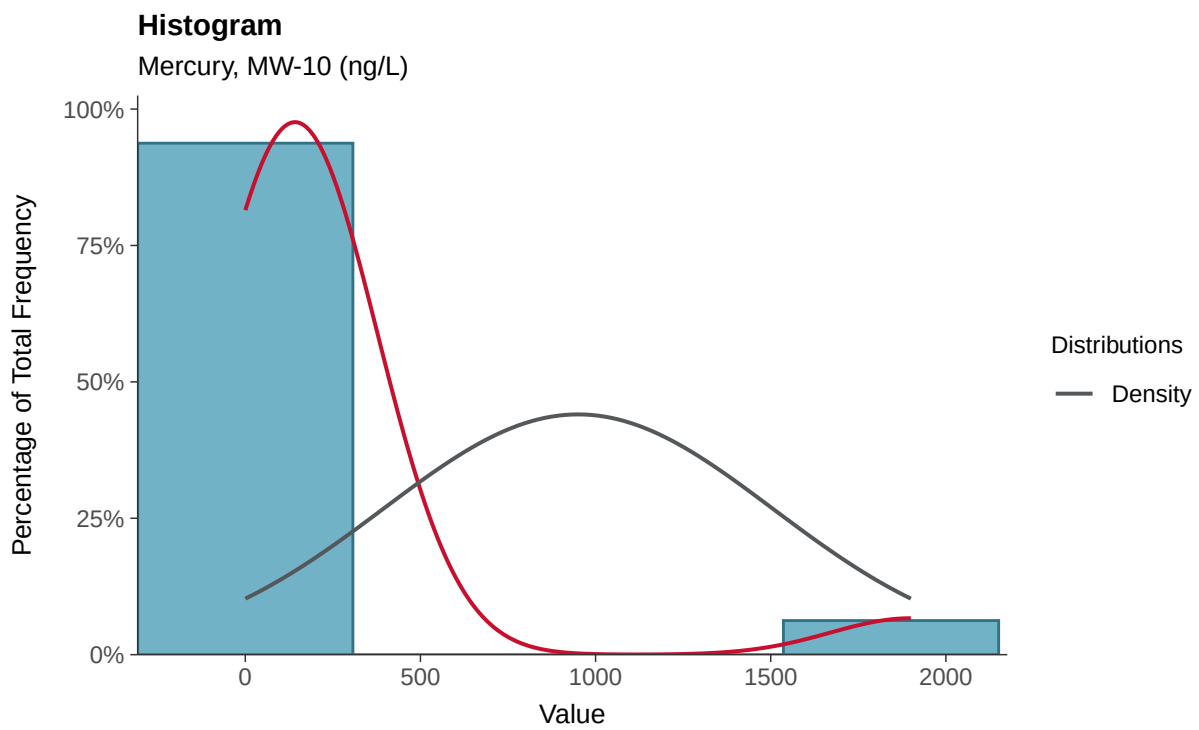




Trend Regression: Piecewise Linear-Linear

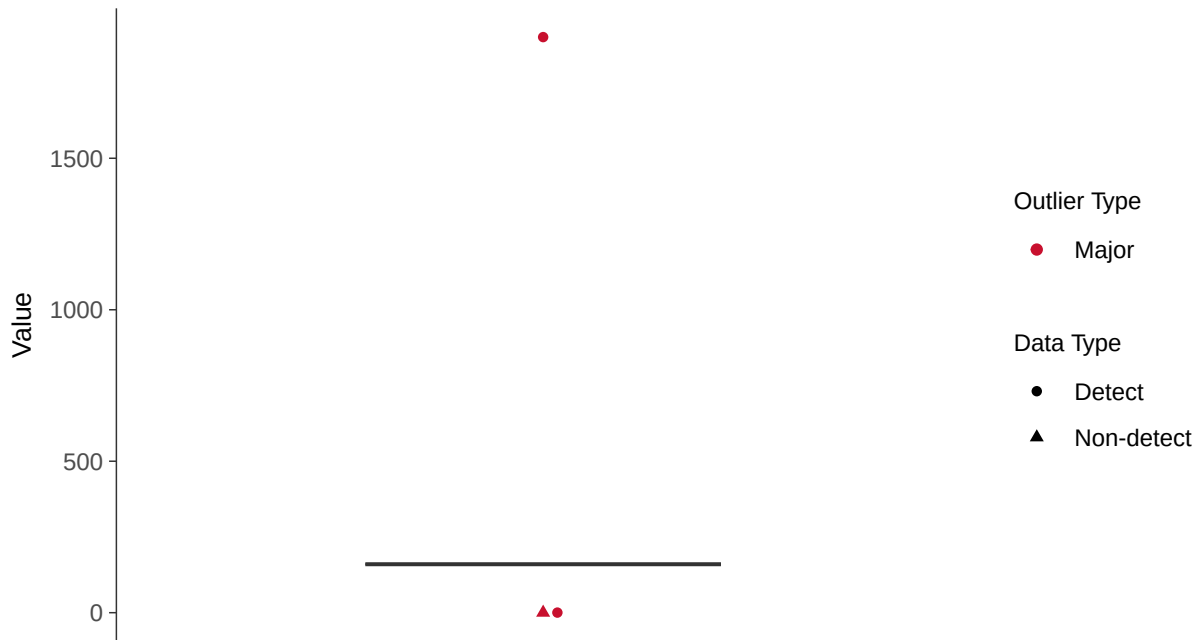
Lithium, MW-10 (mg/L)





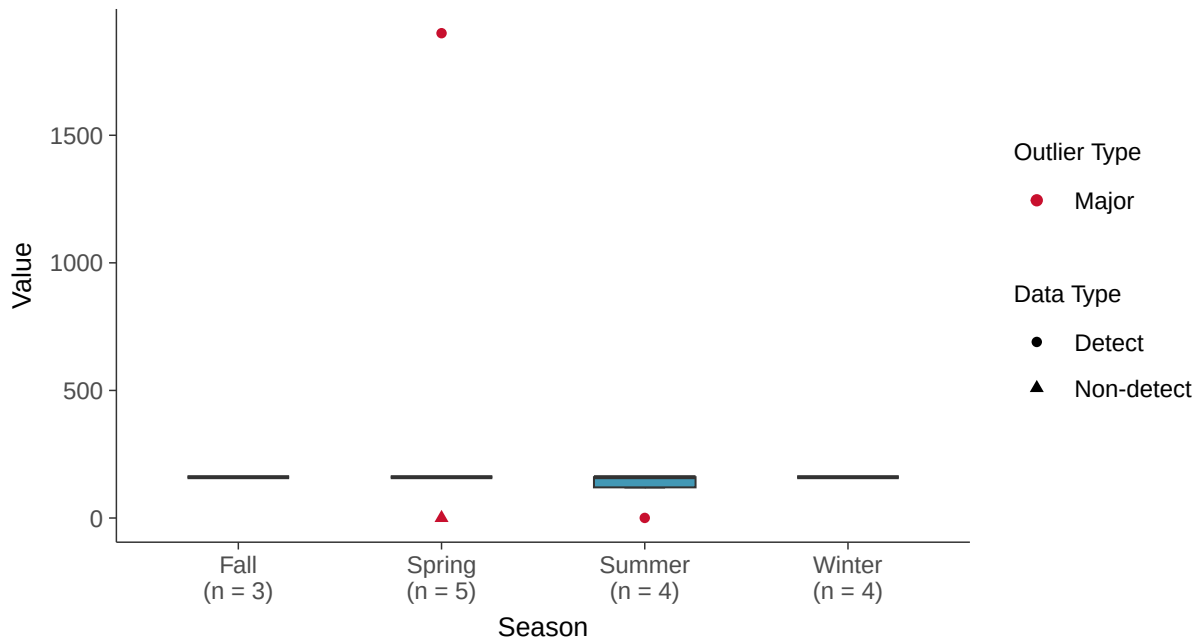
Boxplot

Mercury, MW-10 (ng/L)



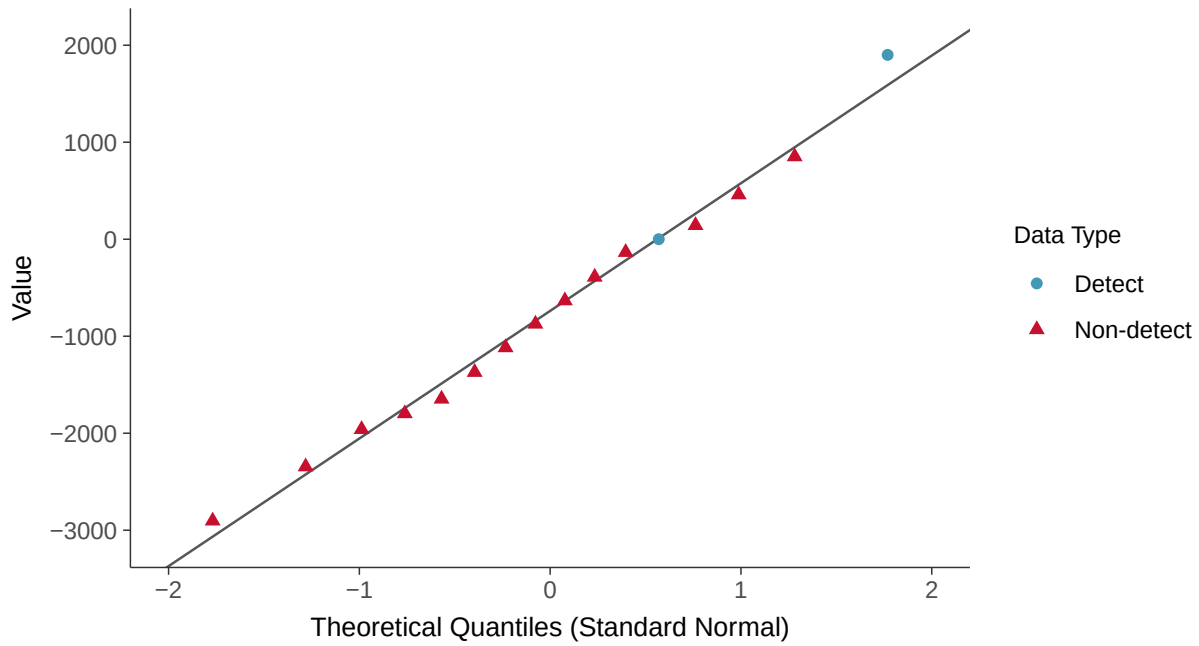
Boxplot by Season

Mercury, MW-10 (ng/L)



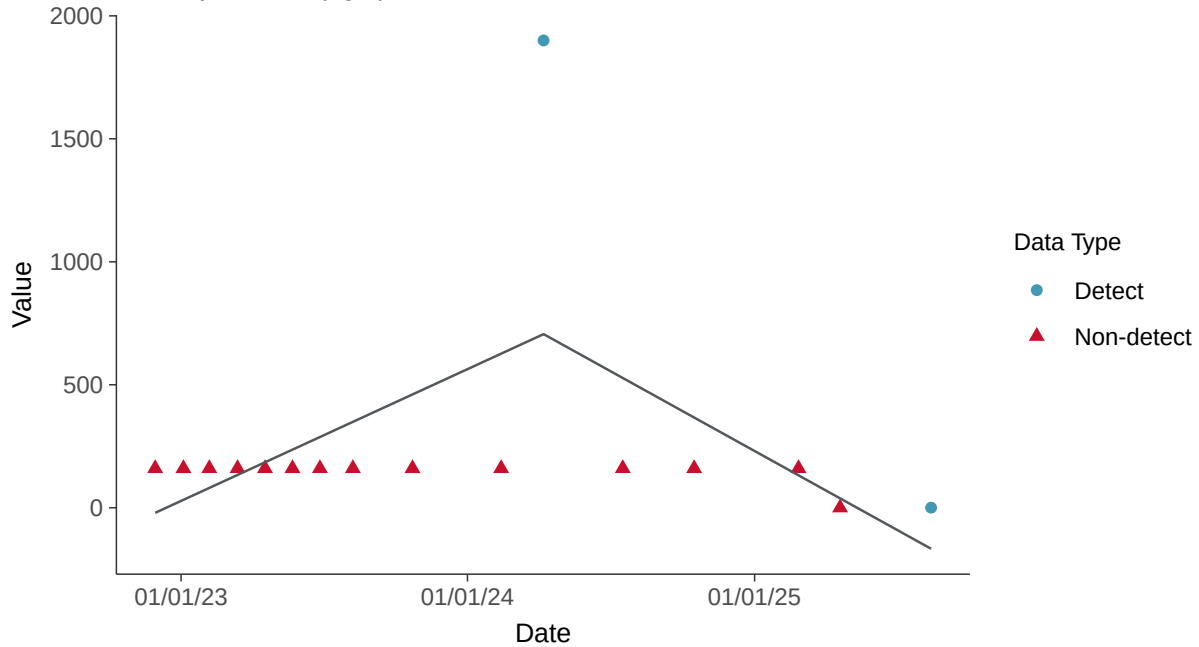
Normal Q-Q plot using ROS Imputed Estimates

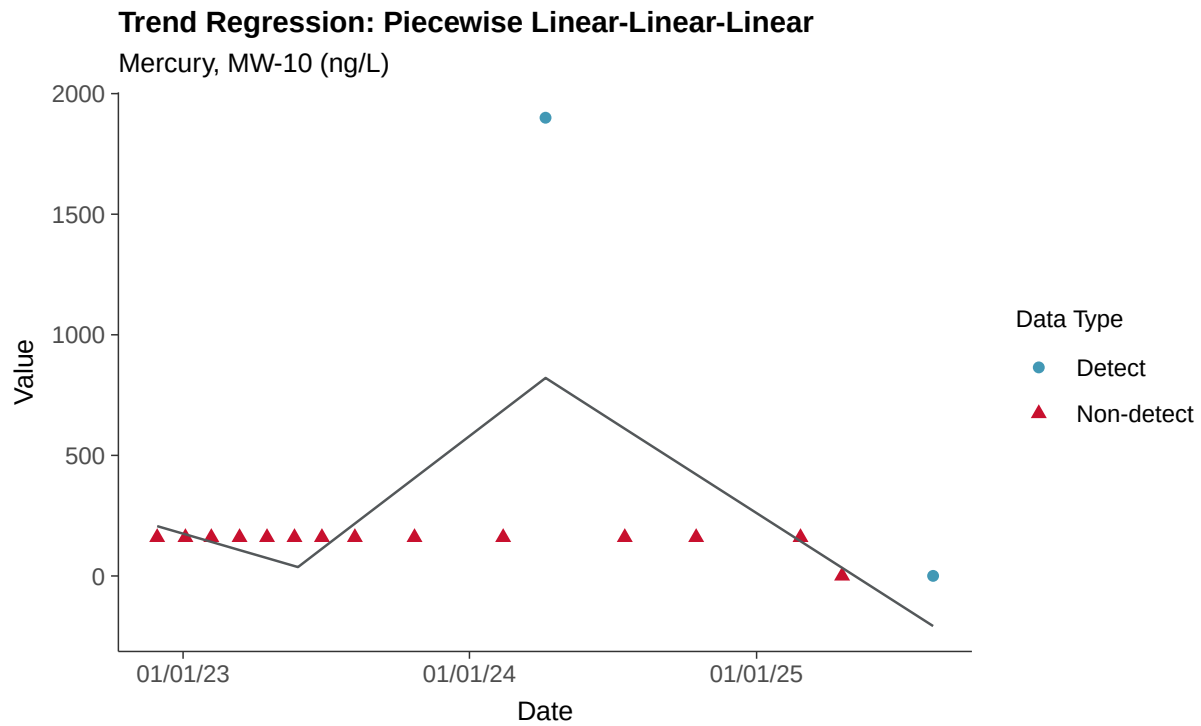
Mercury, MW-10 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-10 (ng/L)



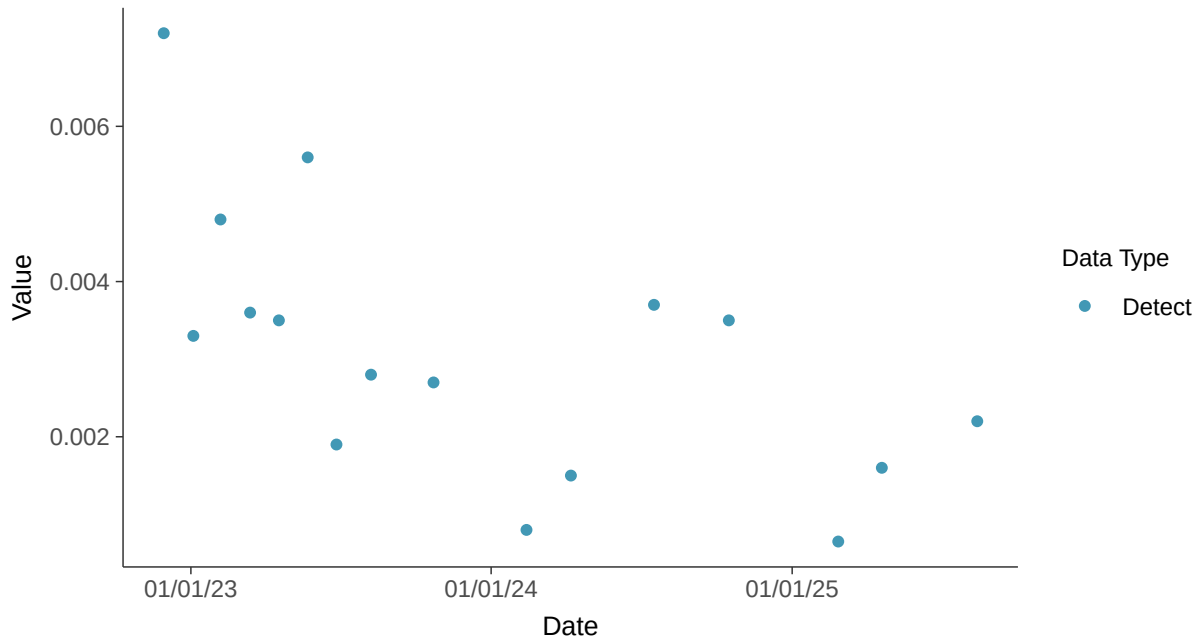


Appendix IV: Molybdenum, MW-10

ID: 20_3_4_118

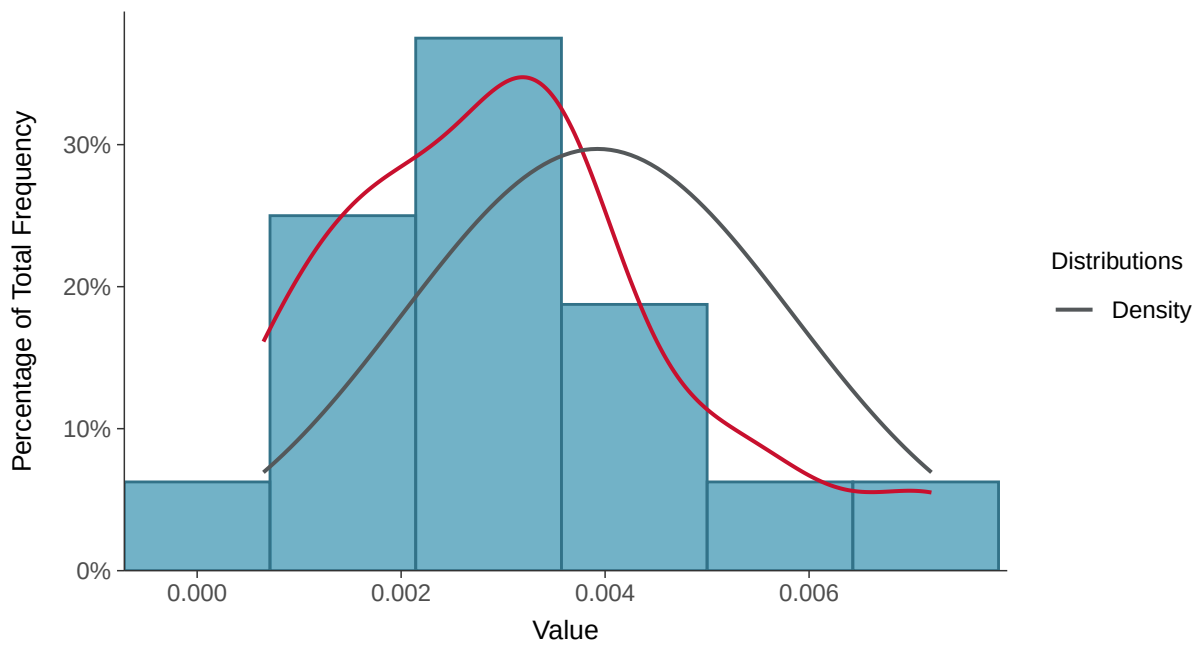
Scatter Plot

Molybdenum, MW-10 (mg/L)



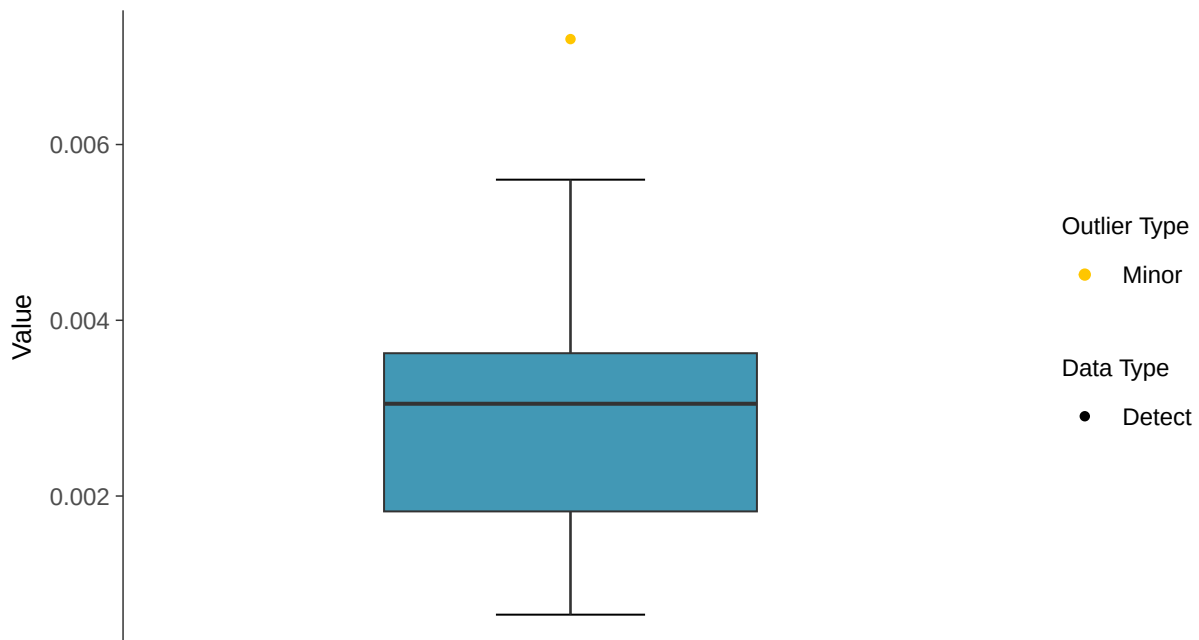
Histogram

Molybdenum, MW-10 (mg/L)



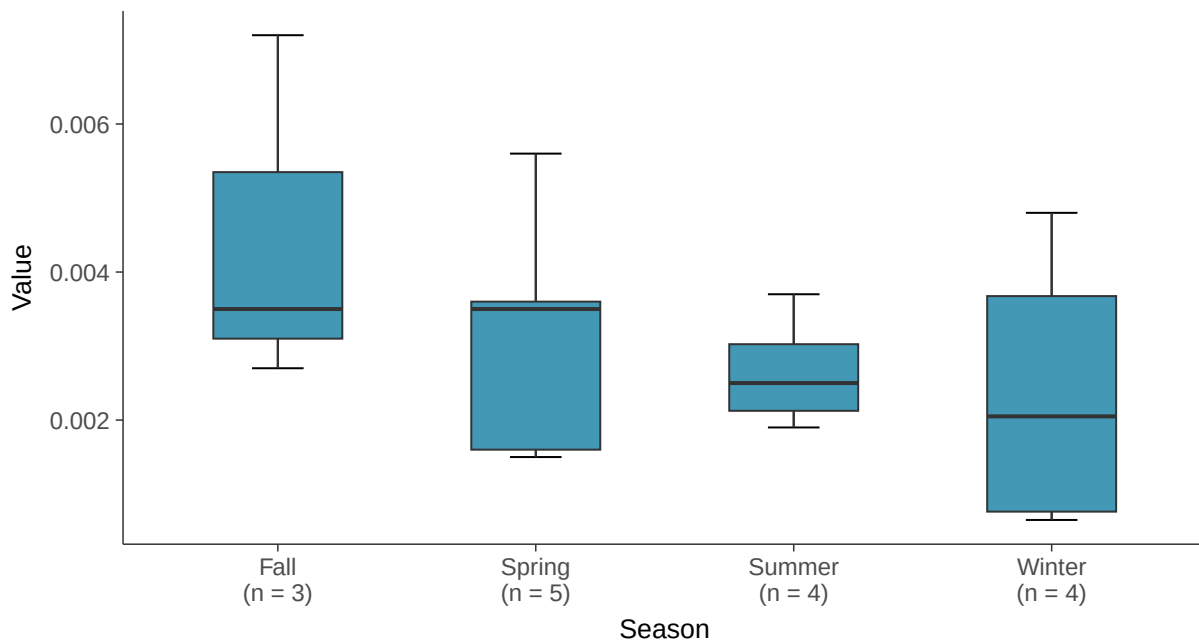
Boxplot

Molybdenum, MW-10 (mg/L)



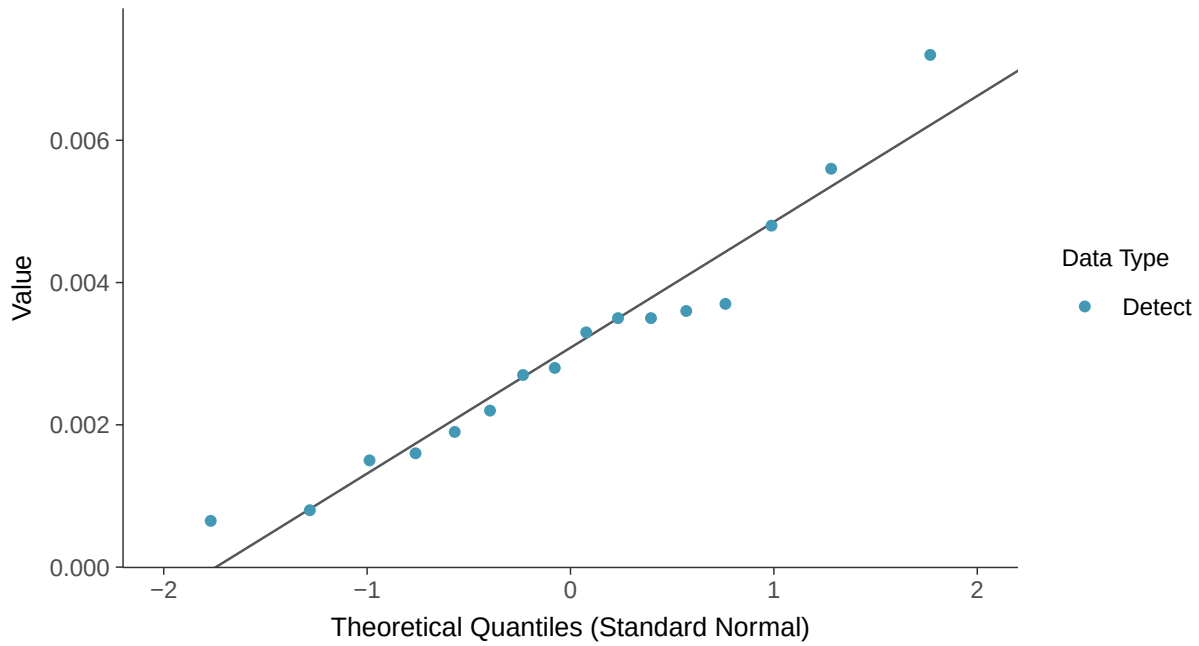
Boxplot by Season

Molybdenum, MW-10 (mg/L)



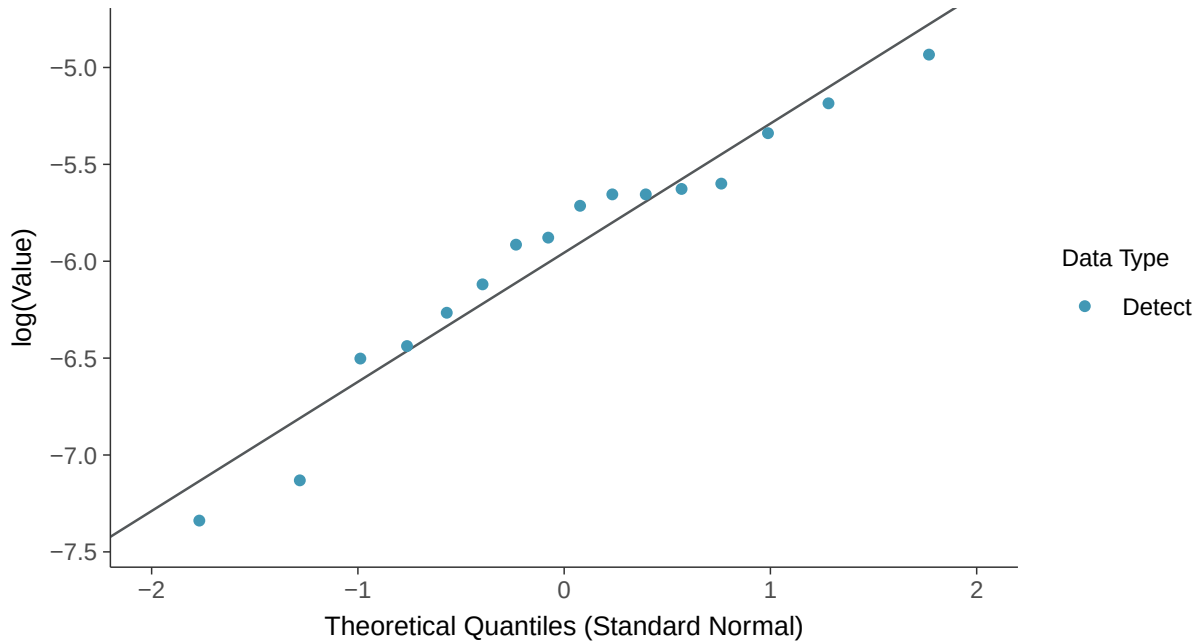
Normal Q-Q plot

Molybdenum, MW-10 (mg/L)



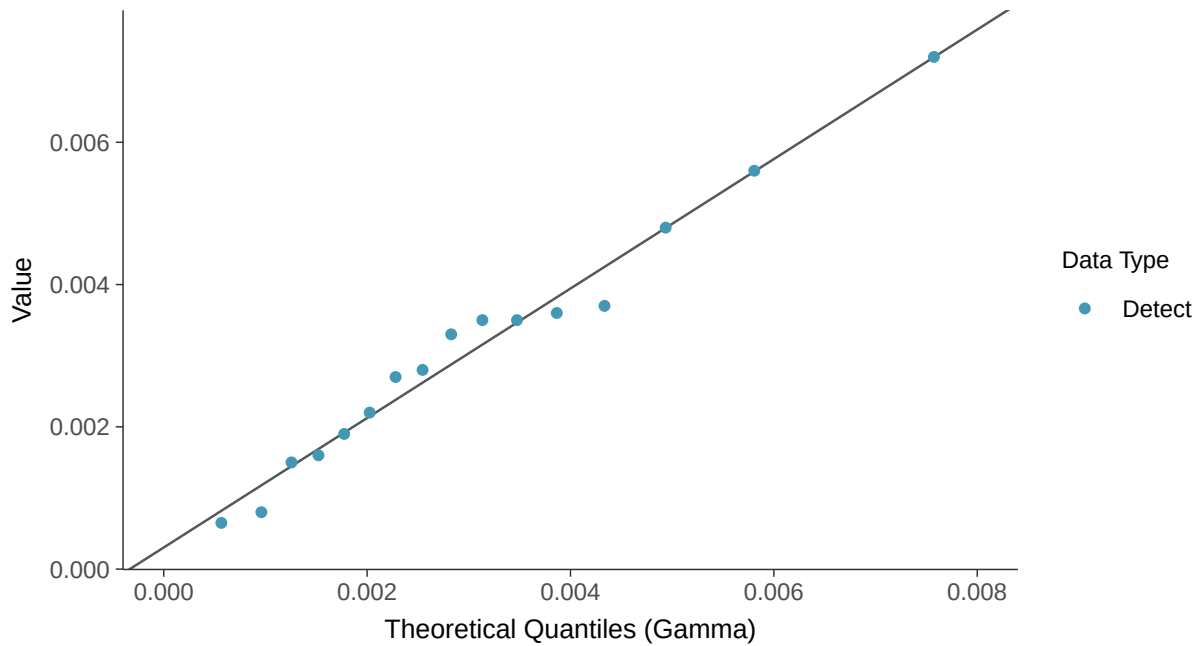
Lognormal Q-Q plot

Molybdenum, MW-10 (mg/L)



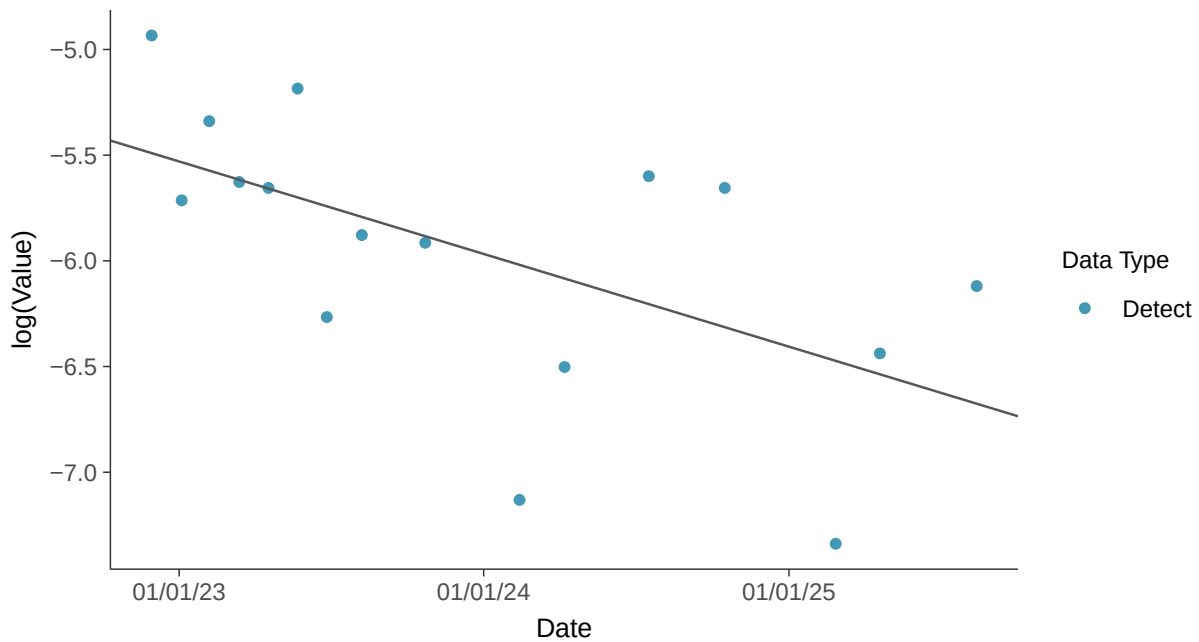
Gamma Q-Q plot

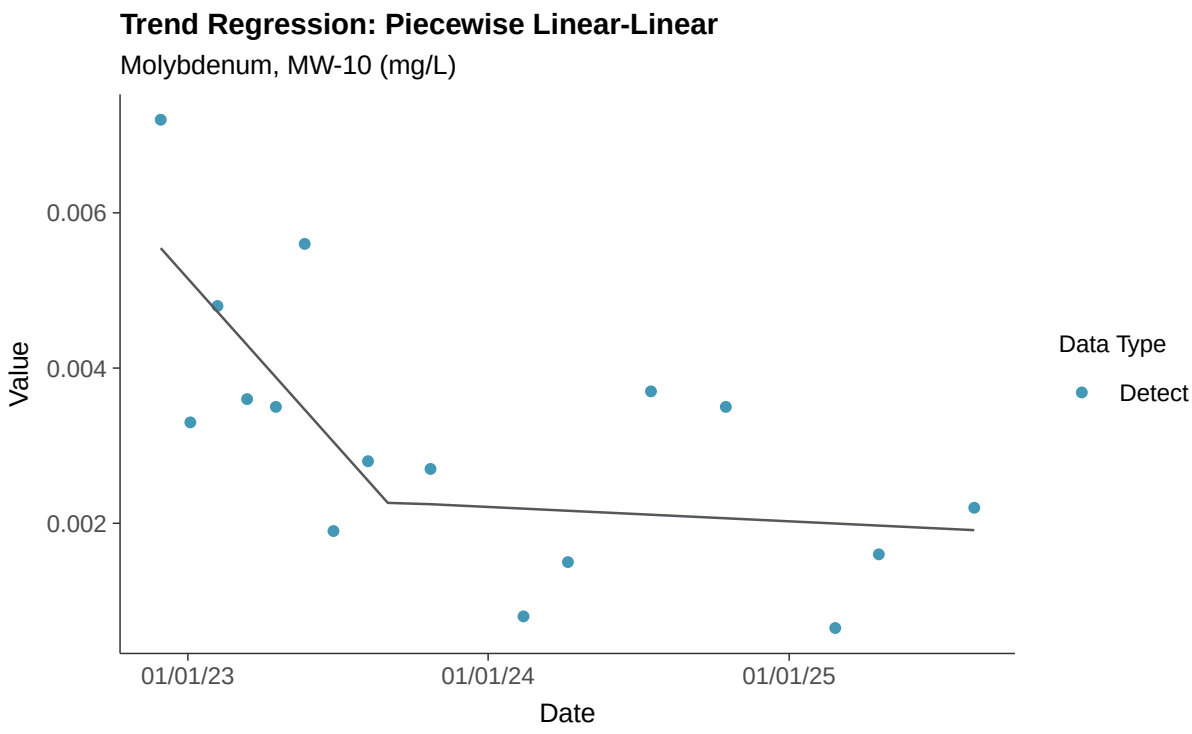
Molybdenum, MW-10 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-10 (mg/L)



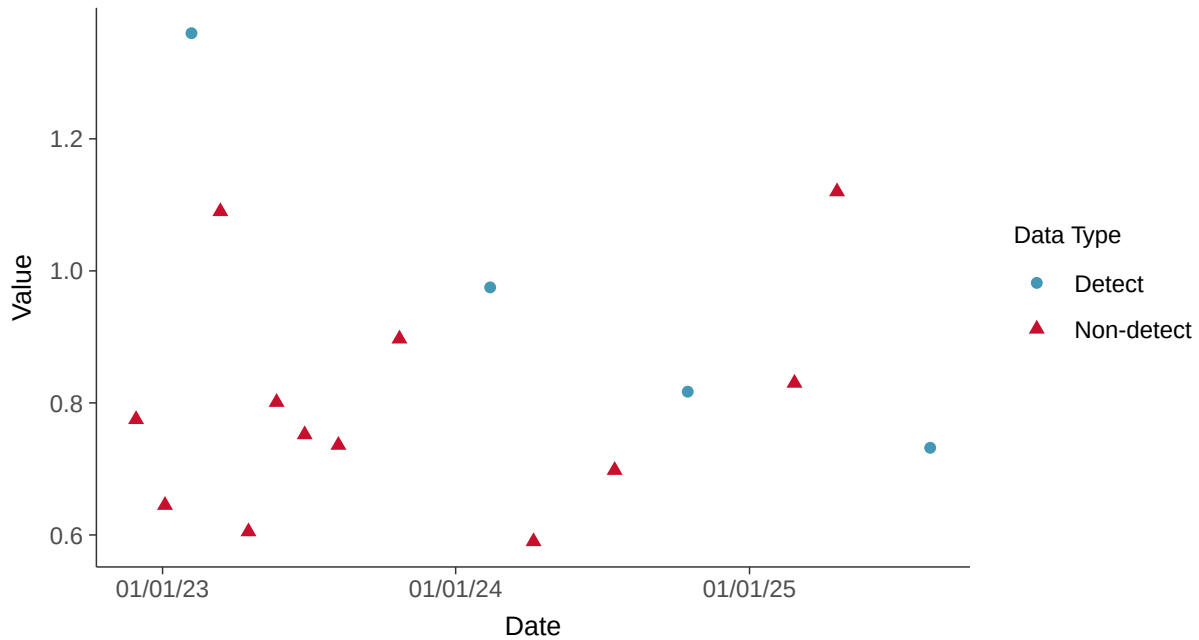


Appendix IV: Radium 226 and 228, MW-10

ID: 20_3_4_121

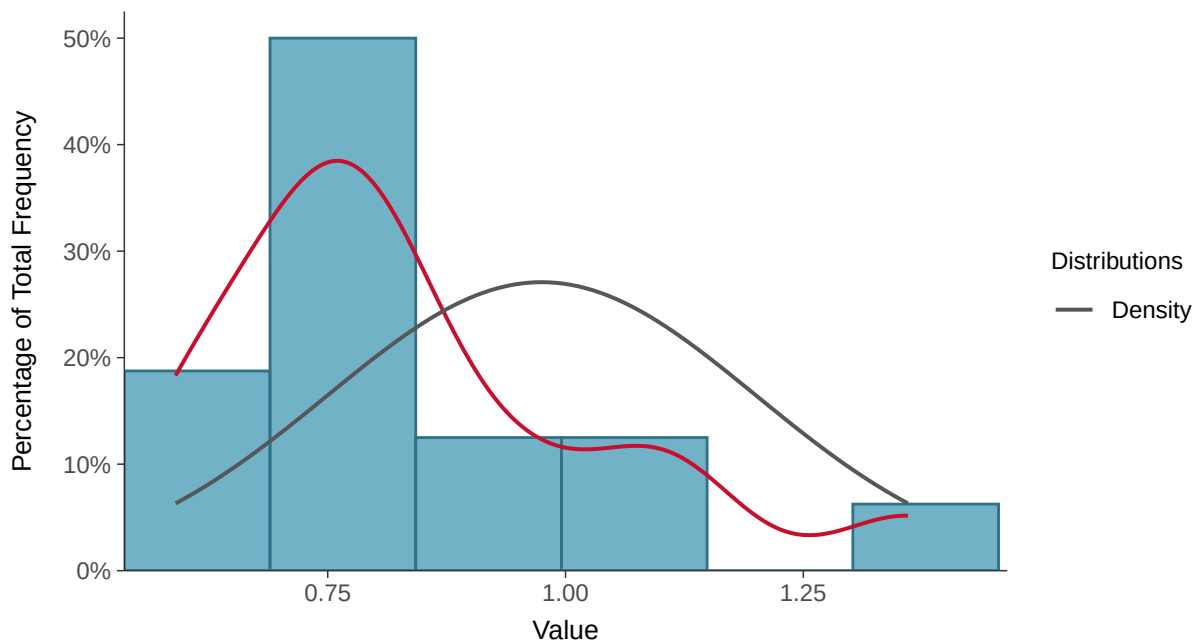
Scatter Plot

Radium 226 and 228, MW-10 (pCi/L)



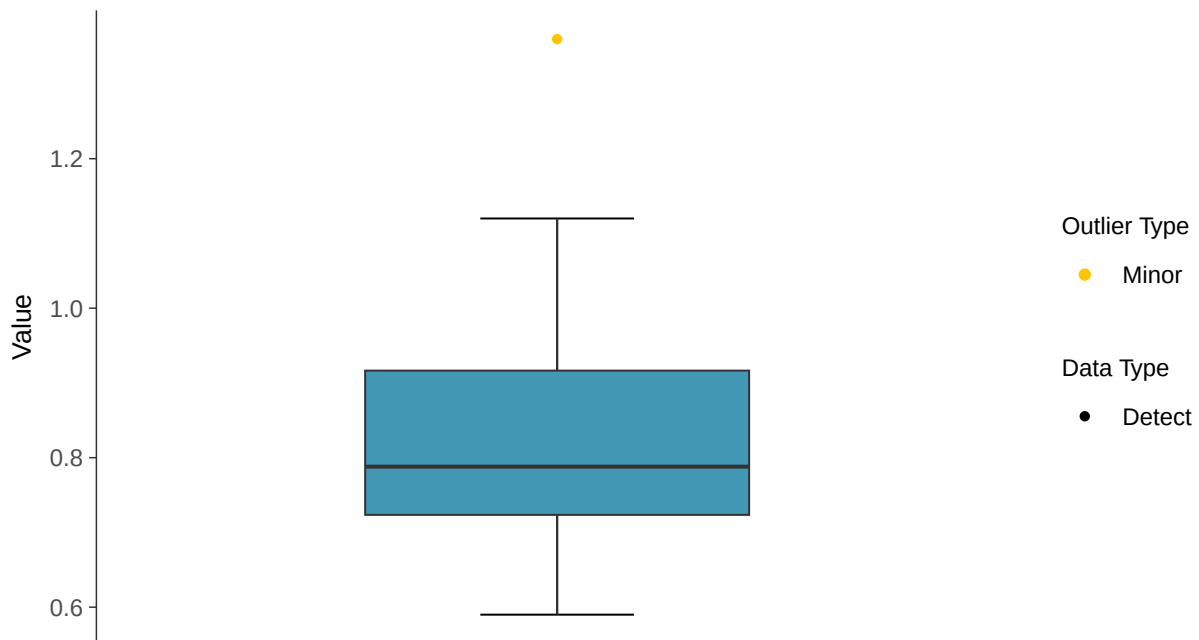
Histogram

Radium 226 and 228, MW-10 (pCi/L)



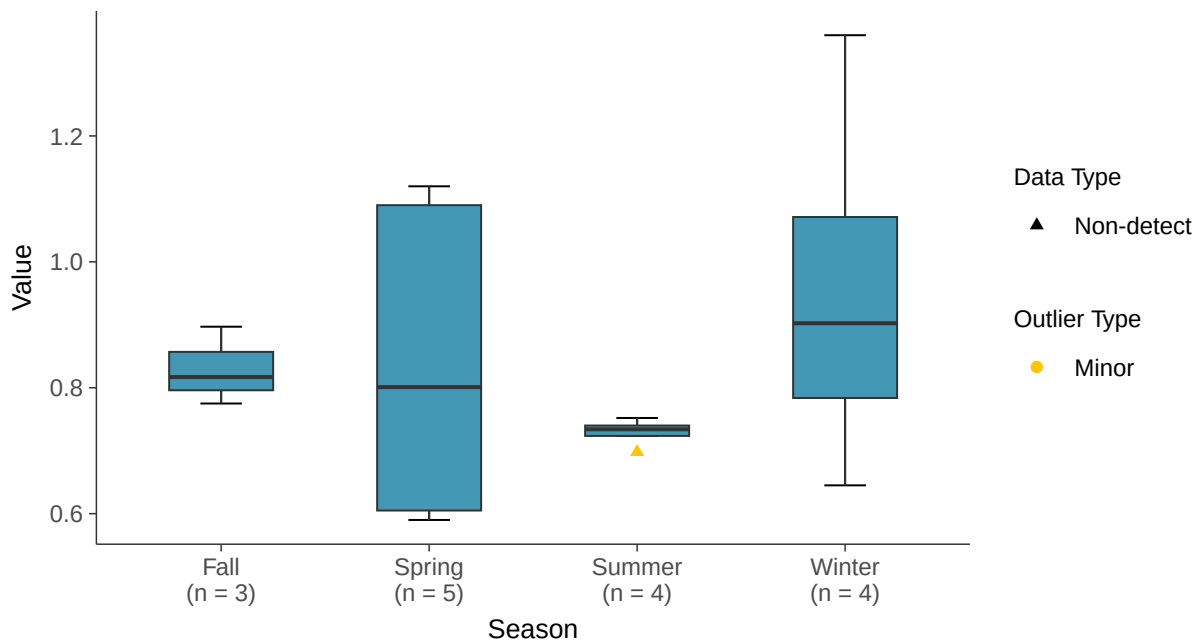
Boxplot

Radium 226 and 228, MW-10 (pCi/L)



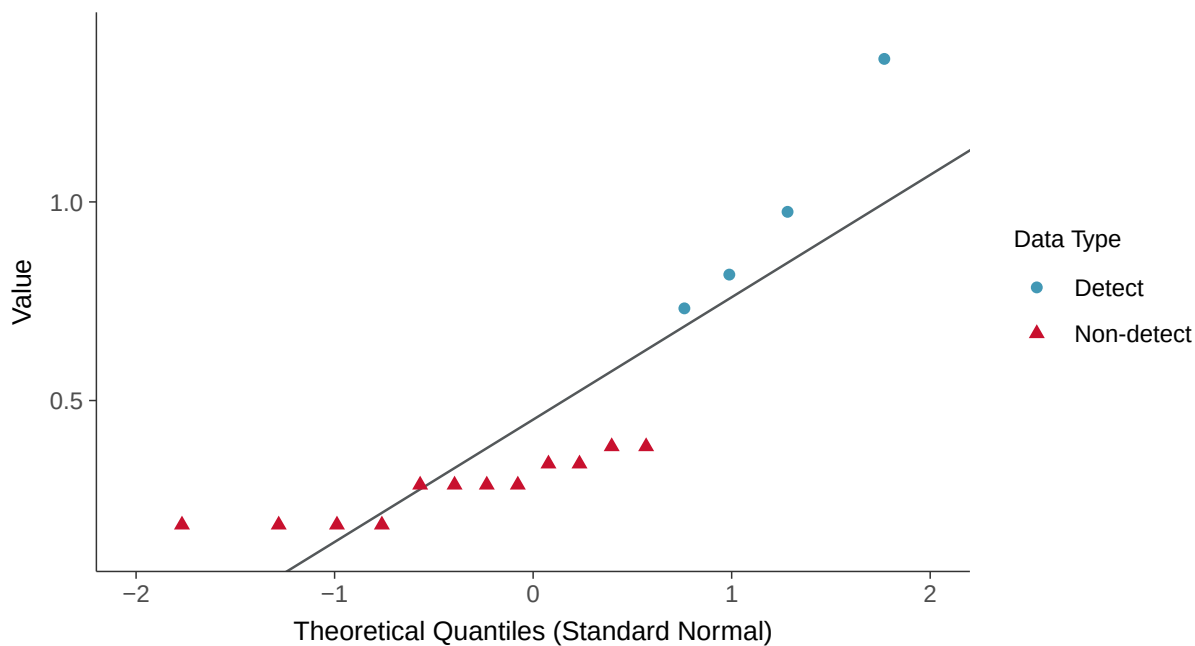
Boxplot by Season

Radium 226 and 228, MW-10 (pCi/L)



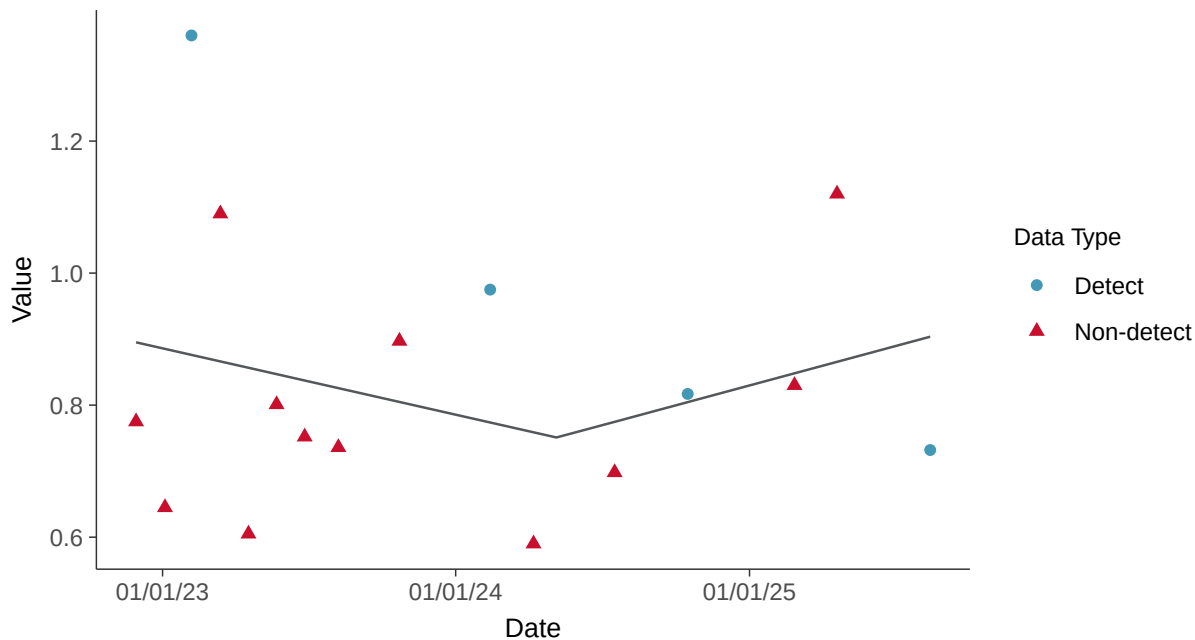
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-10 (pCi/L)



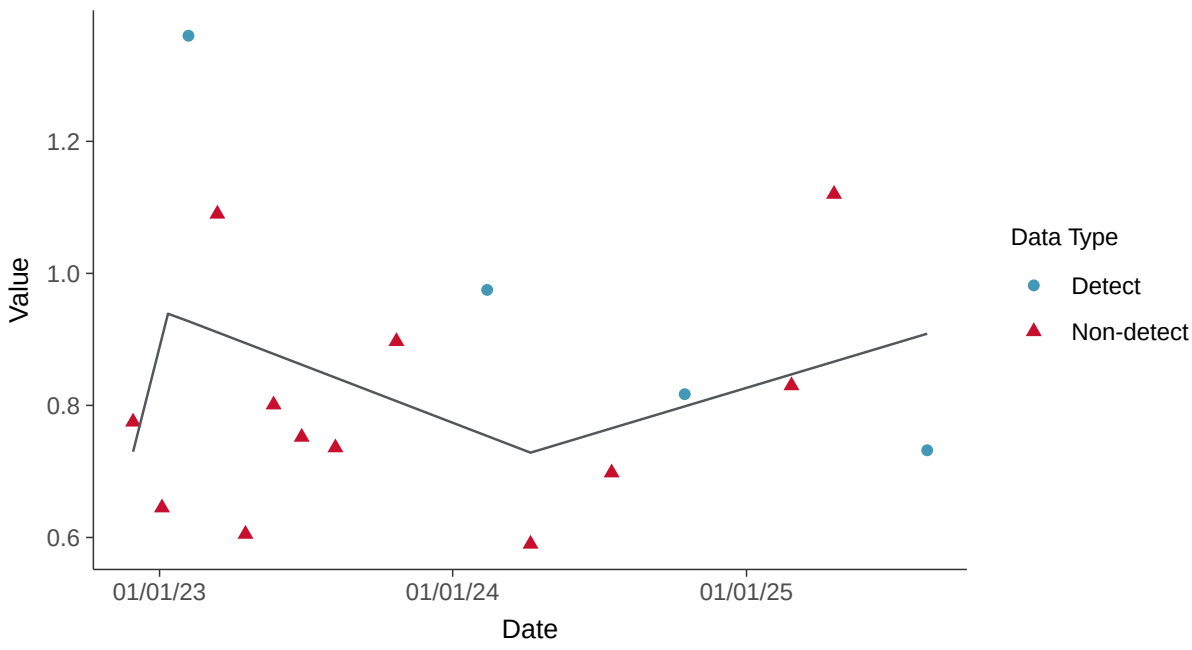
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-10 (pCi/L)



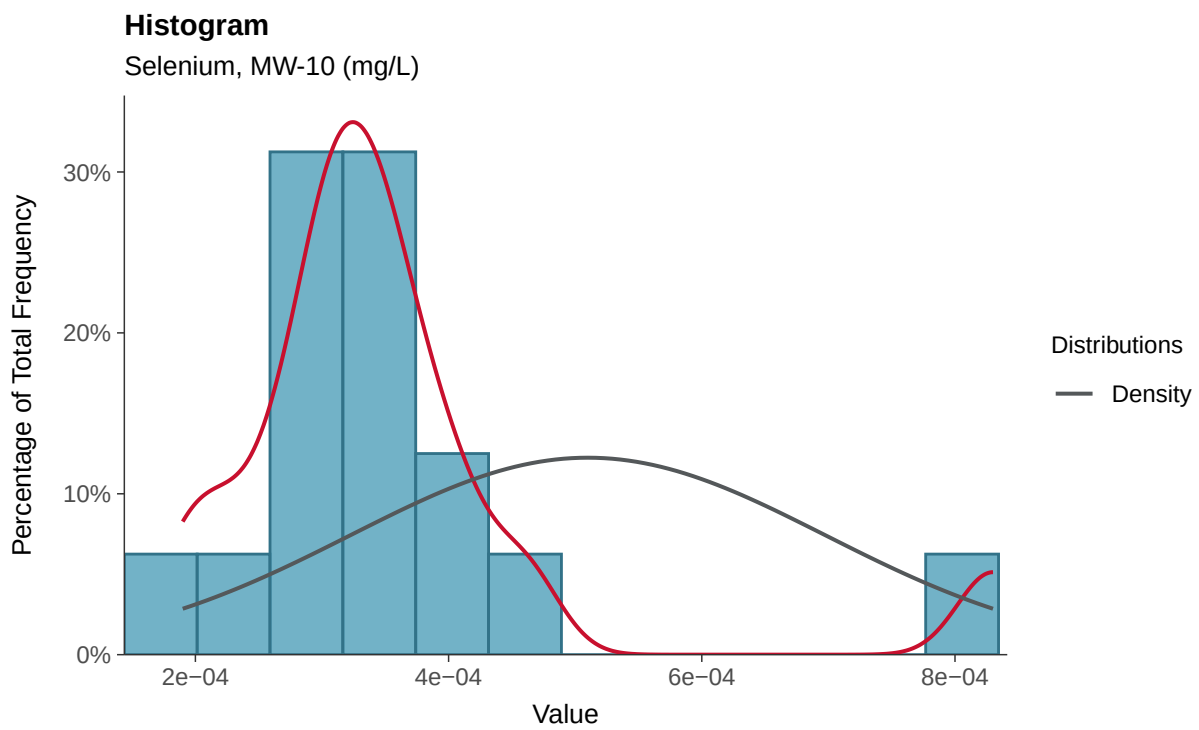
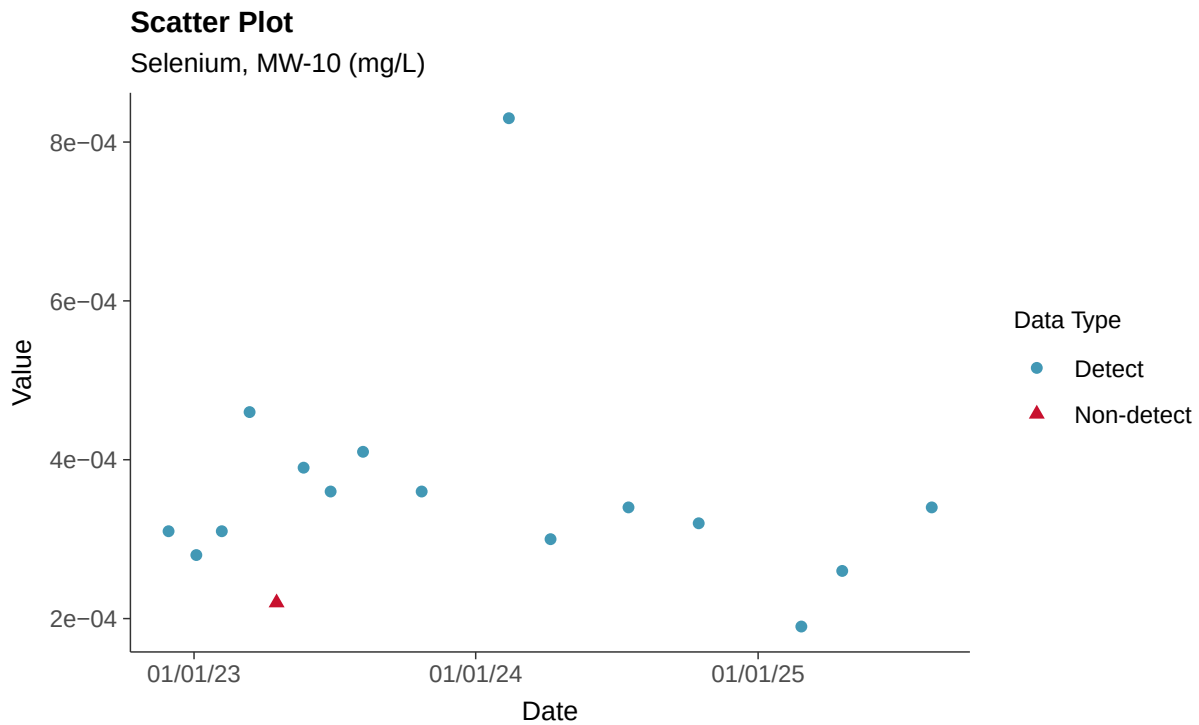


Trend Regression: Piecewise Linear-Linear-Linear
Radium 226 and 228, MW-10 (pCi/L)



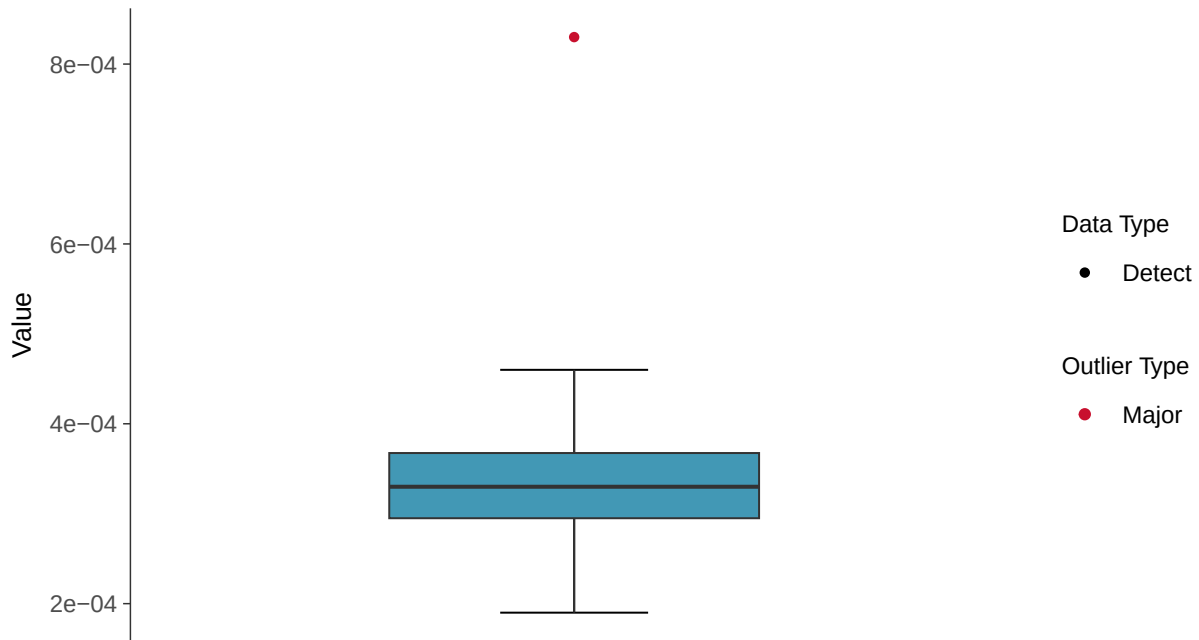
Appendix IV: Selenium, MW-10

ID: 20_3_4_122



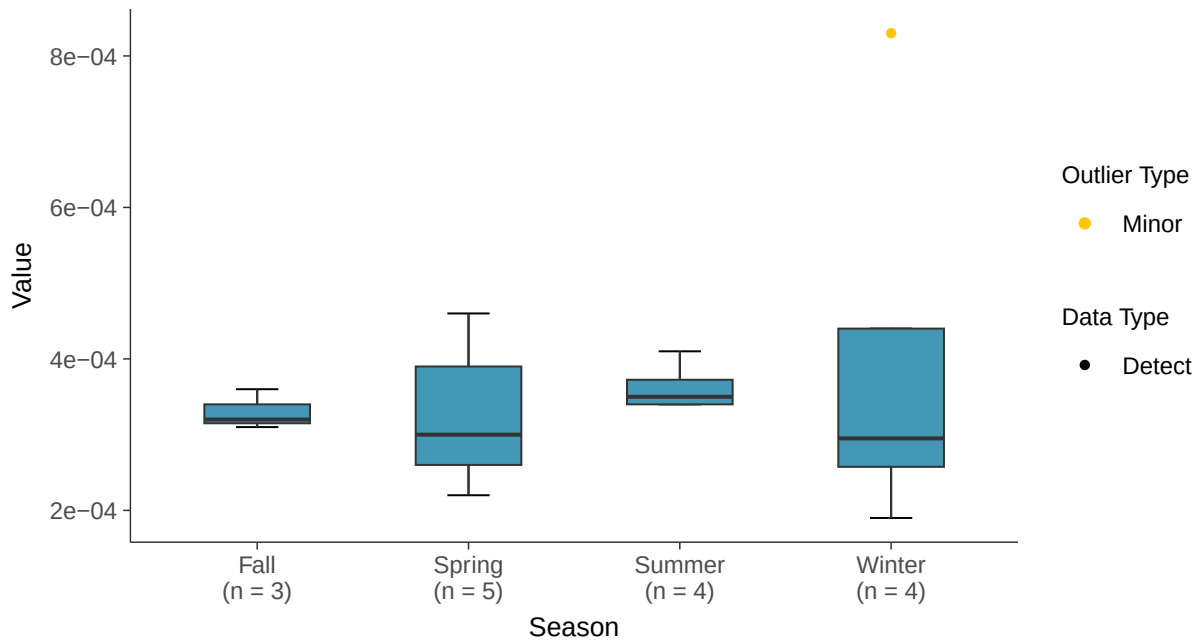
Boxplot

Selenium, MW-10 (mg/L)



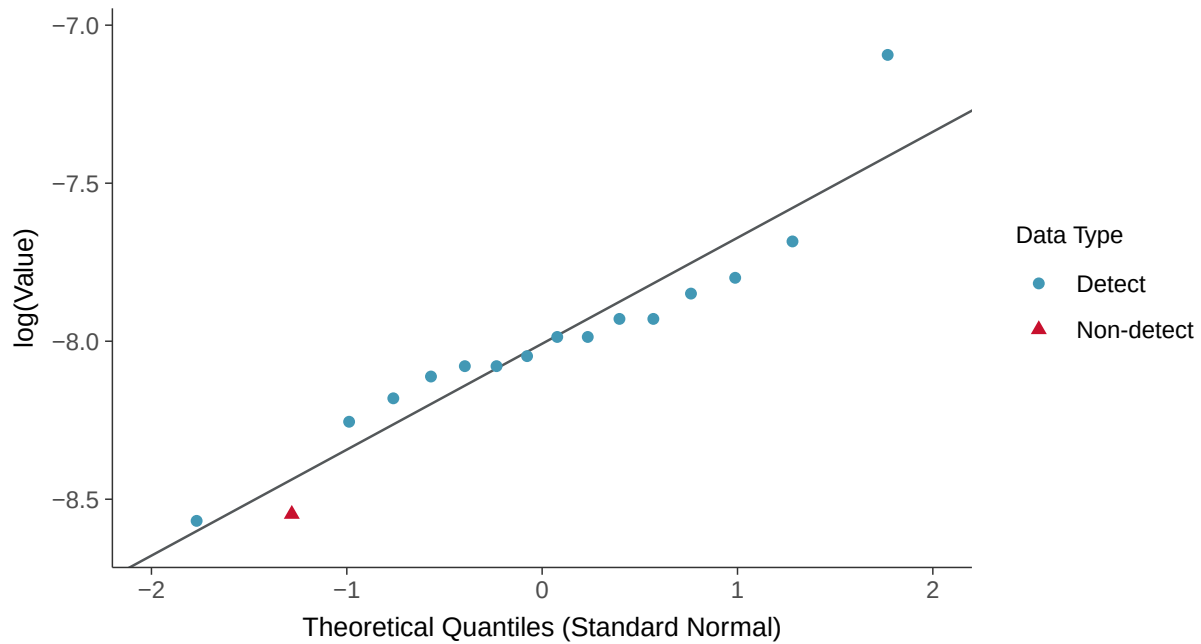
Boxplot by Season

Selenium, MW-10 (mg/L)



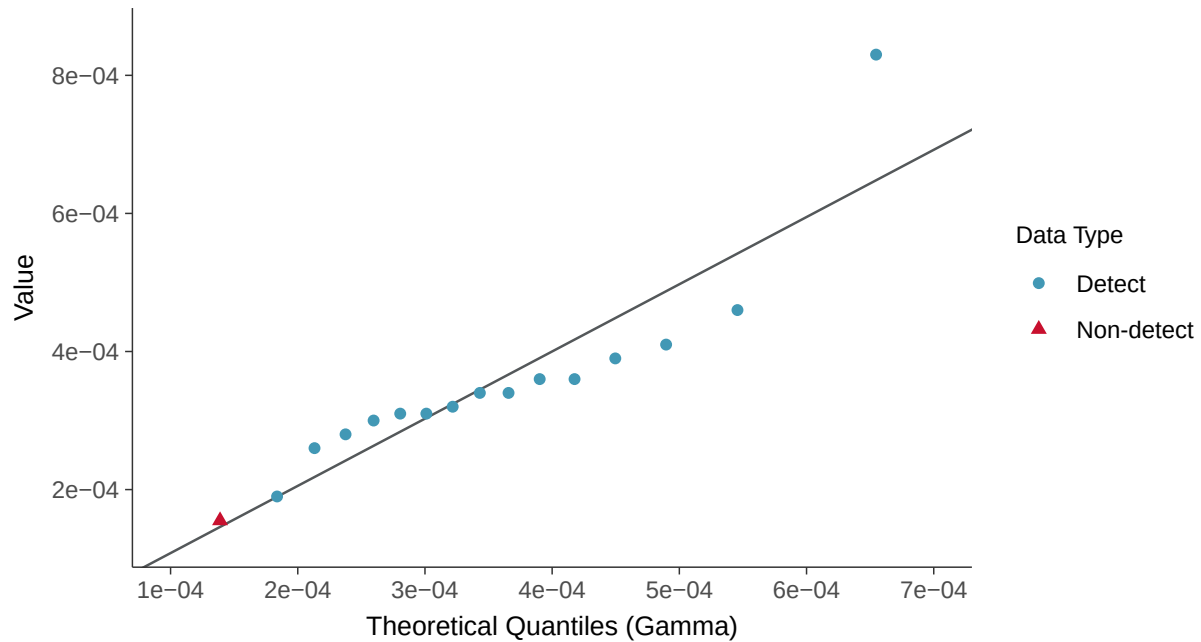
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-10 (mg/L)

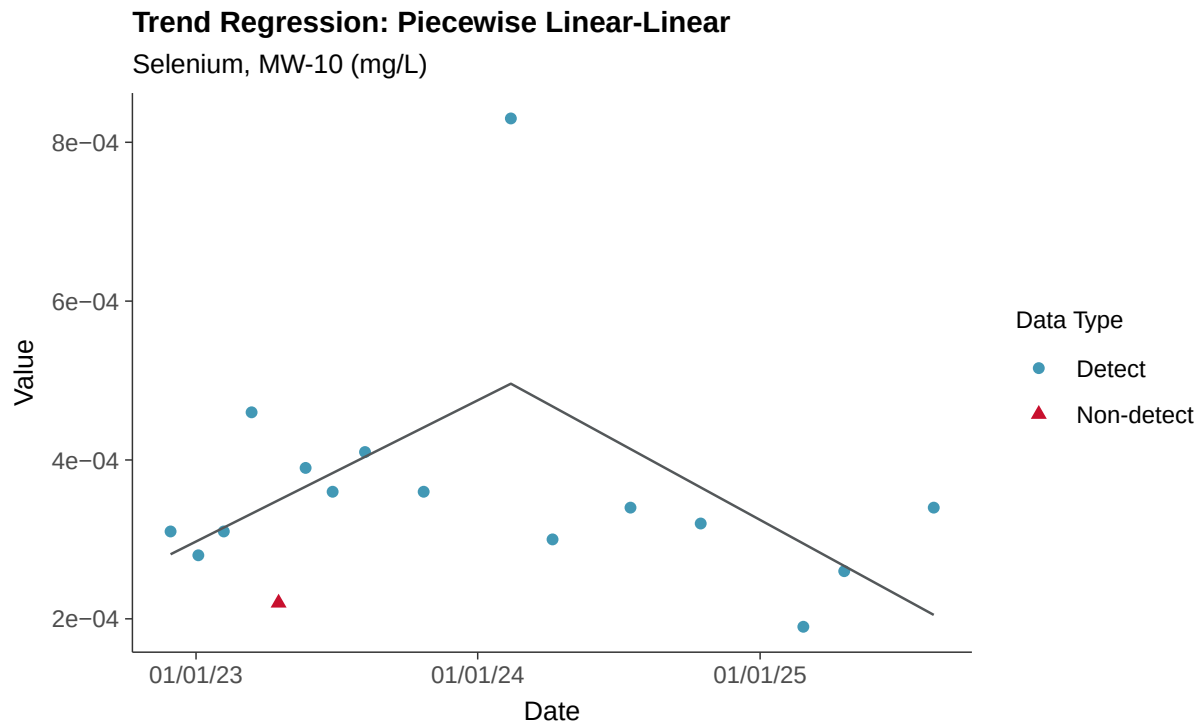


Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-10 (mg/L)

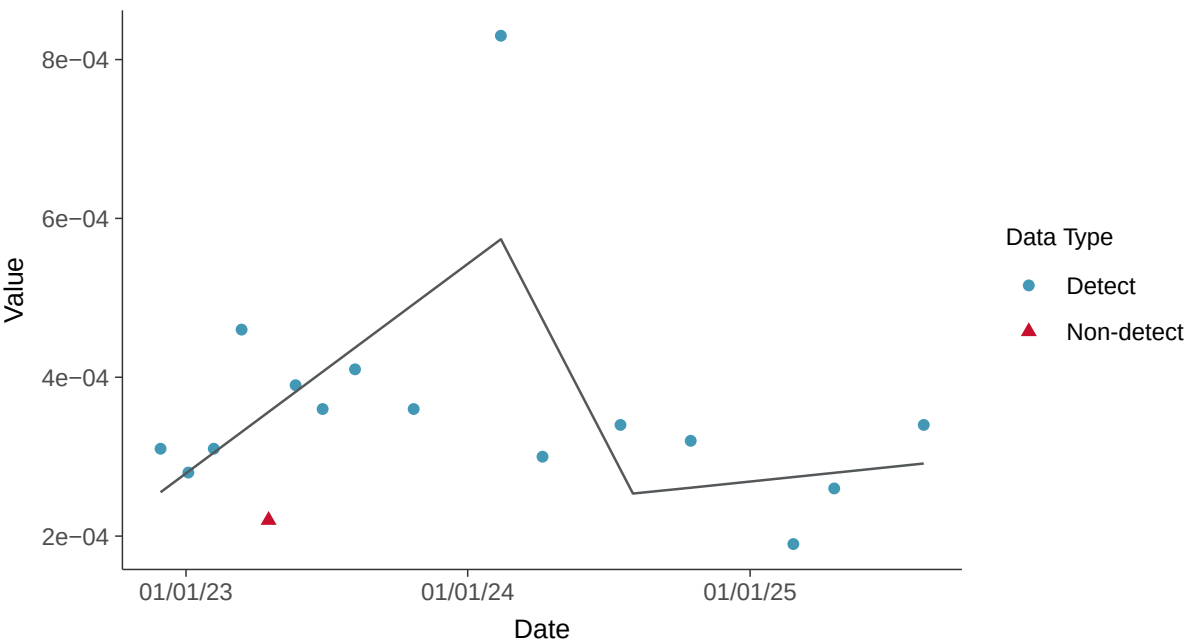


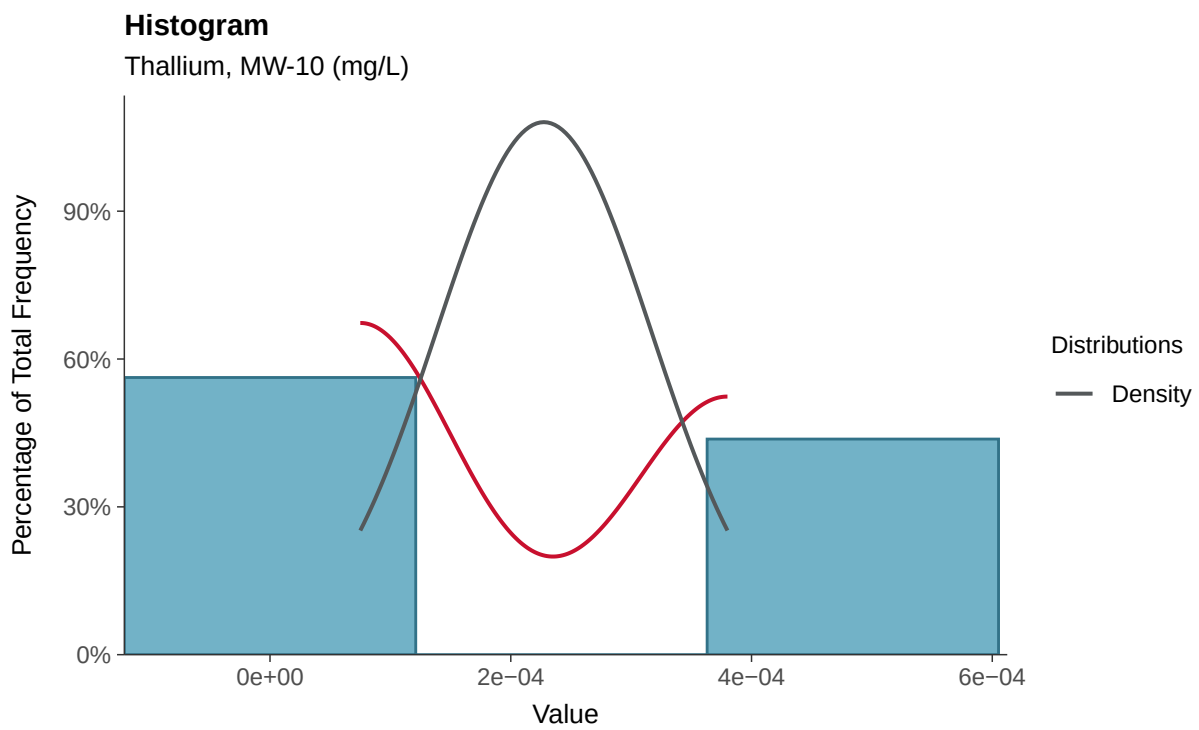
Selenium, MW-10 (mg/L)





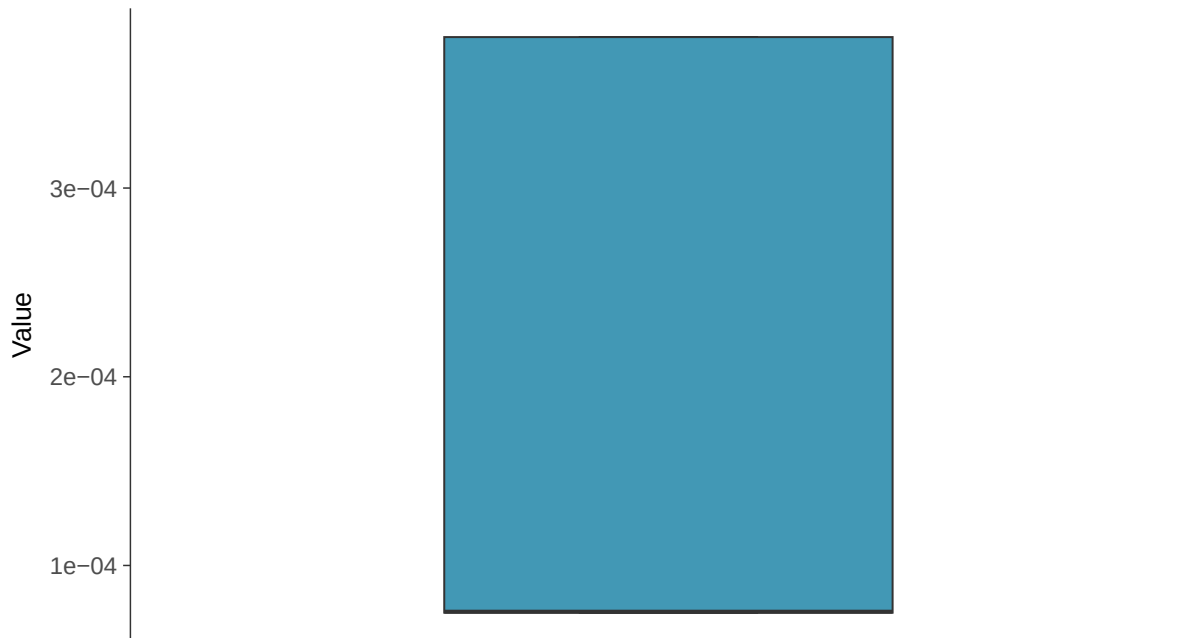
Trend Regression: Piecewise Linear-Linear-Linear
Selenium, MW-10 (mg/L)





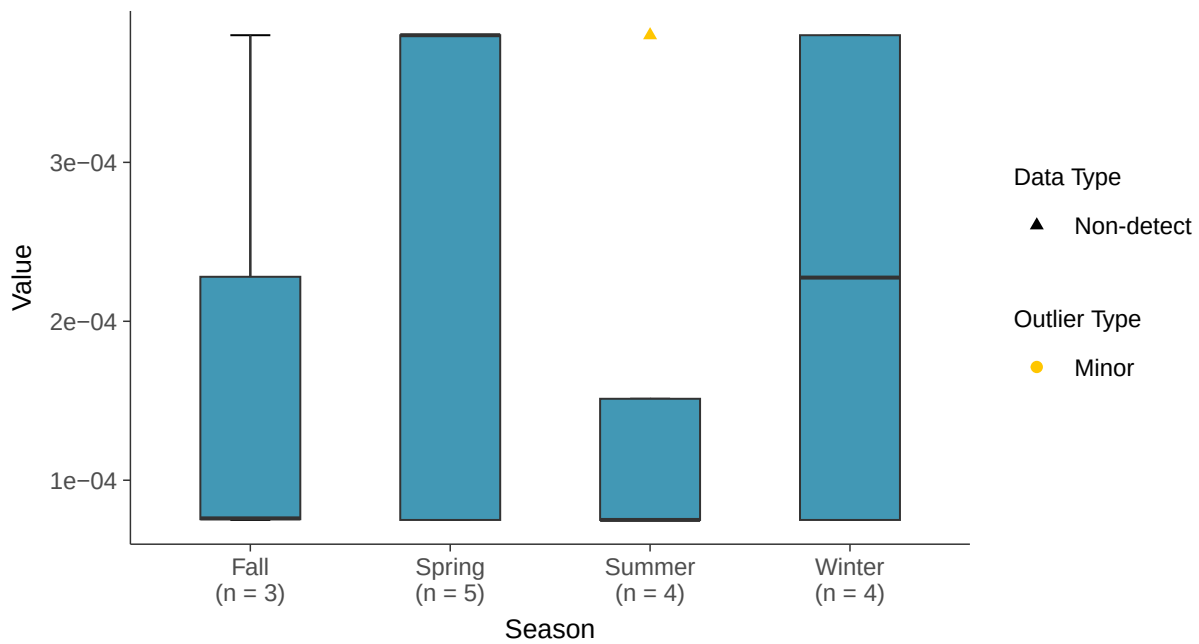
Boxplot

Thallium, MW-10 (mg/L)



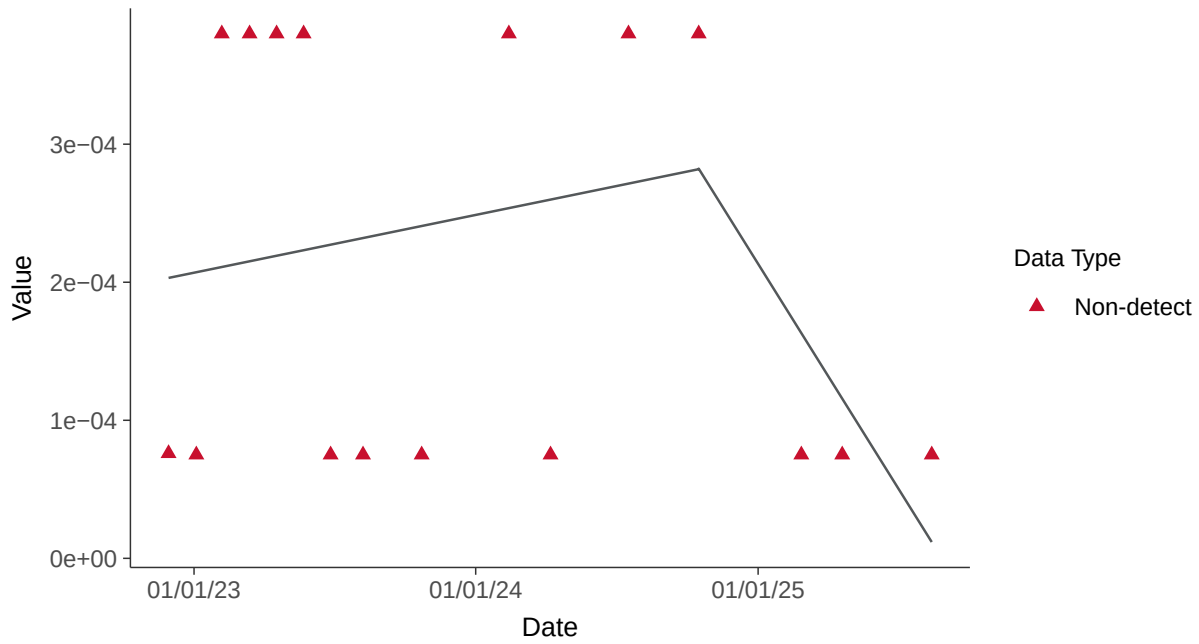
Boxplot by Season

Thallium, MW-10 (mg/L)



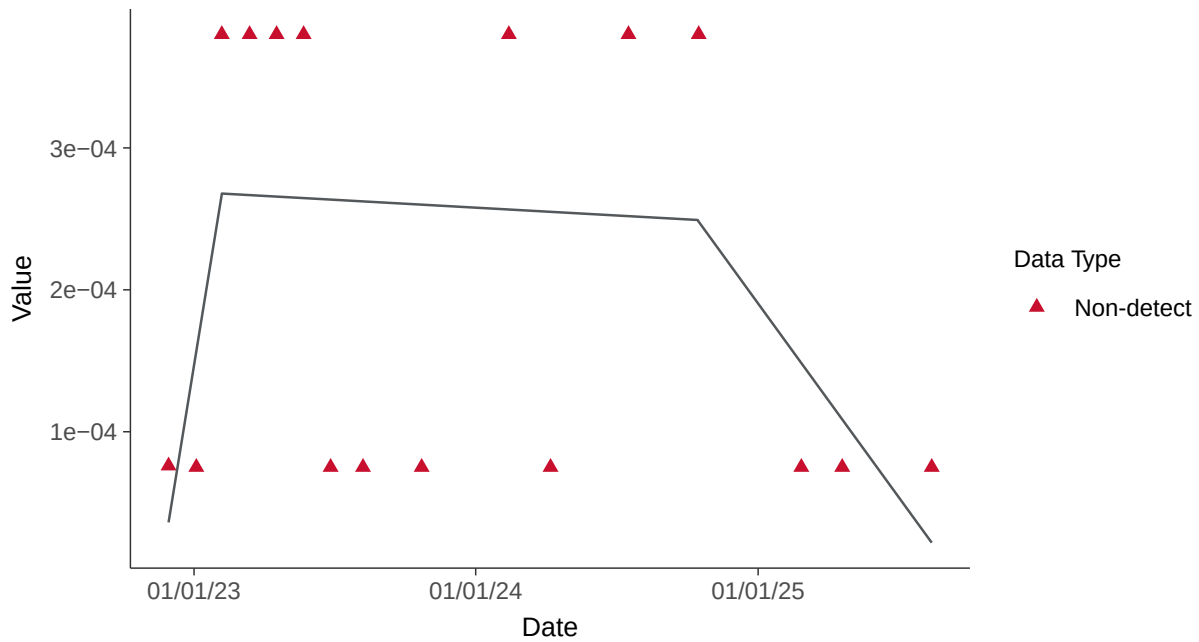
Trend Regression: Piecewise Linear-Linear

Thallium, MW-10 (mg/L)



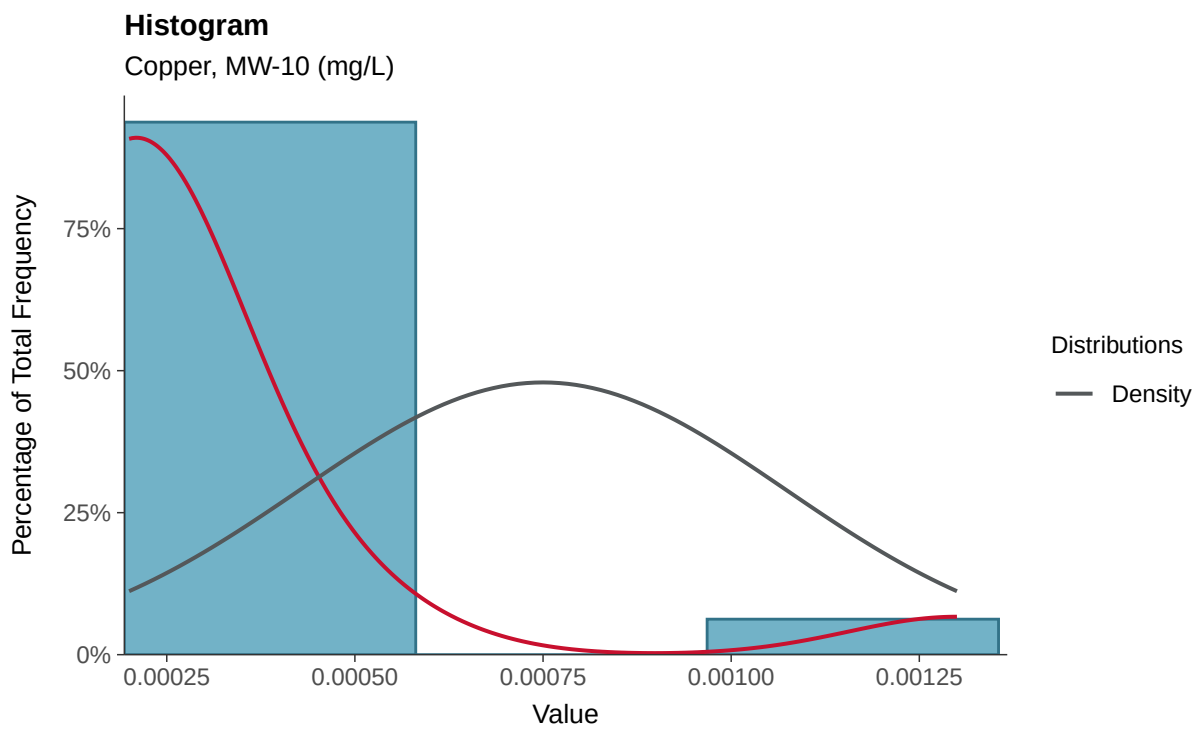
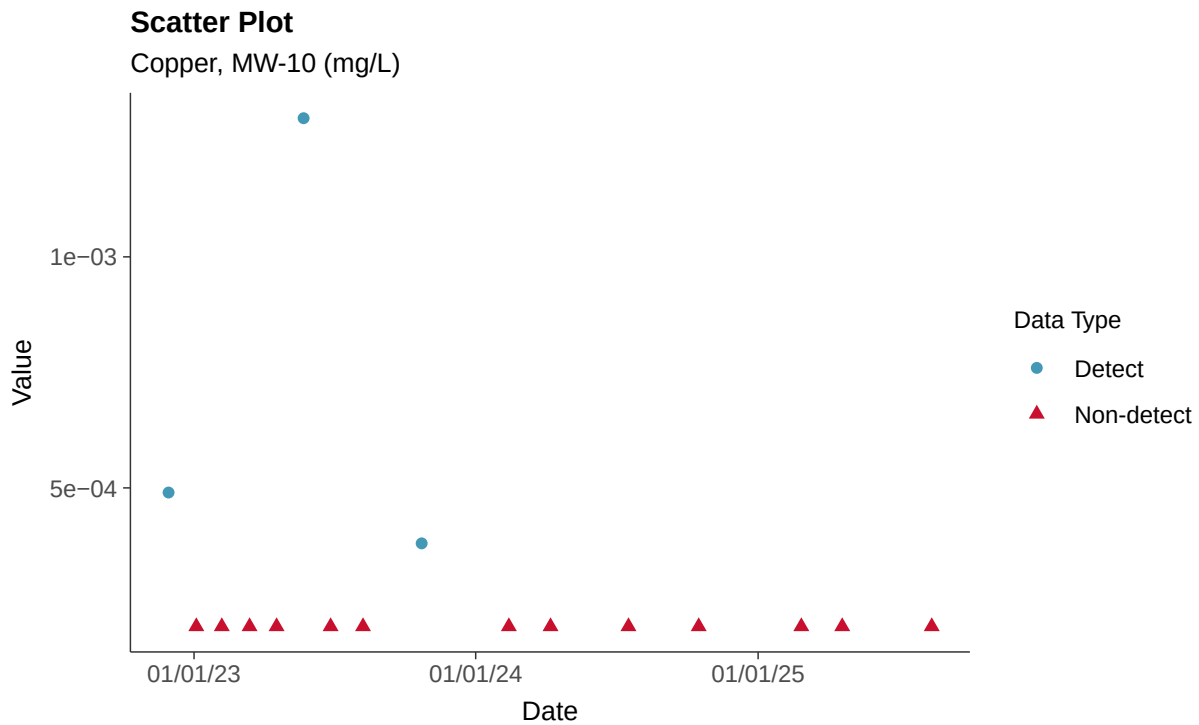
Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-10 (mg/L)



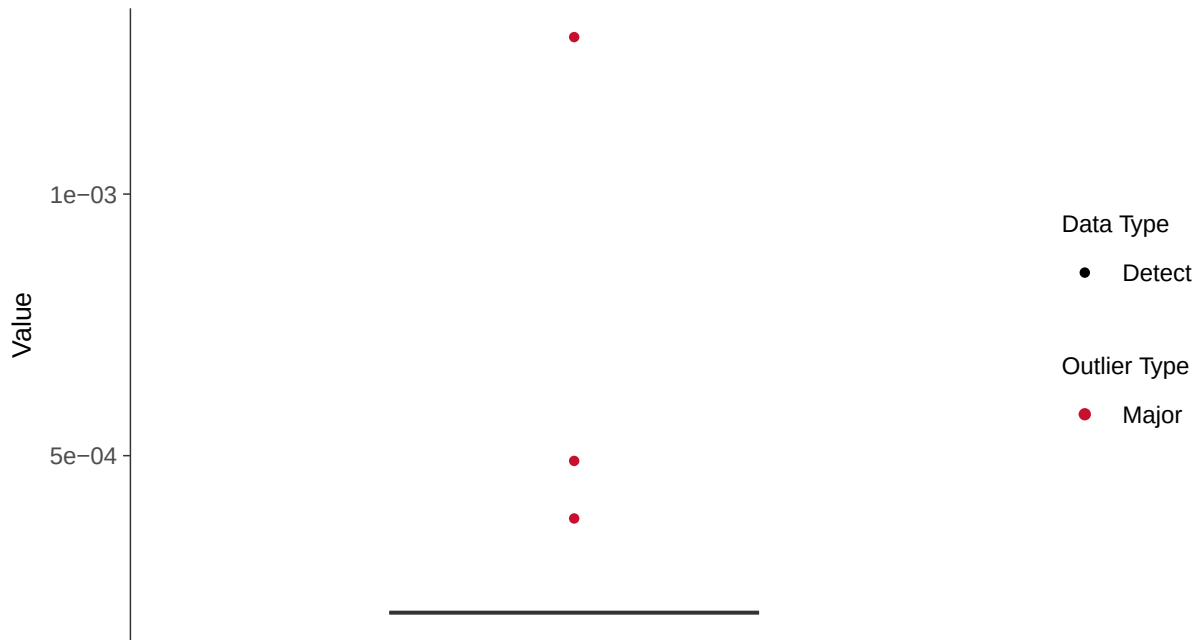
Part 115: Copper, MW-10

ID: 20_3_5_111



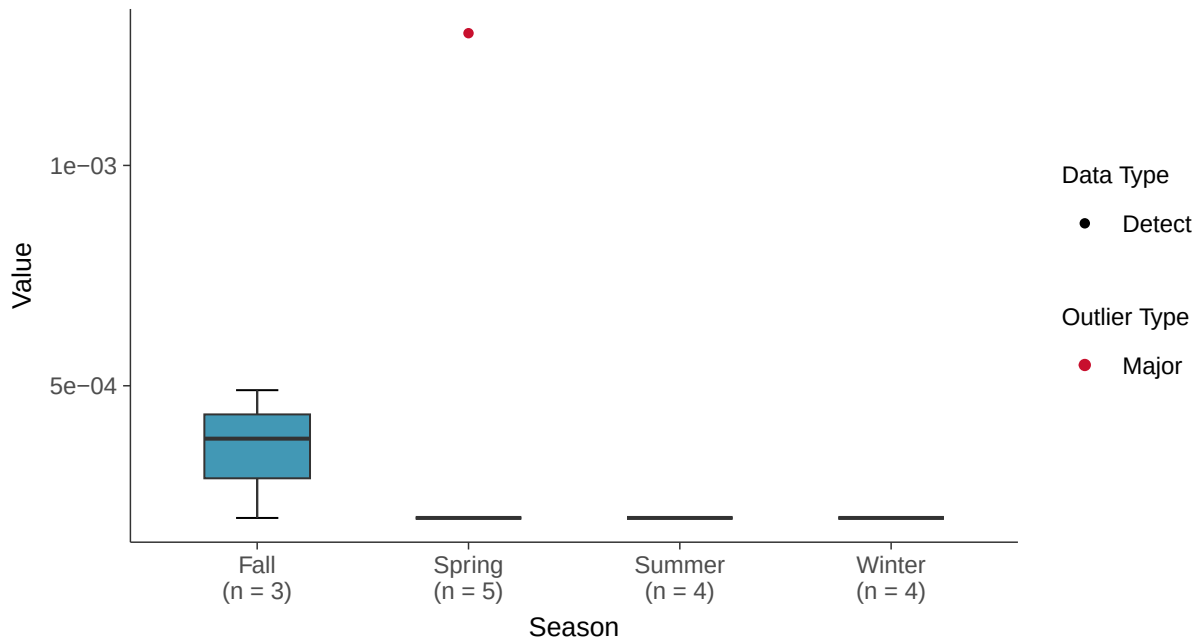
Boxplot

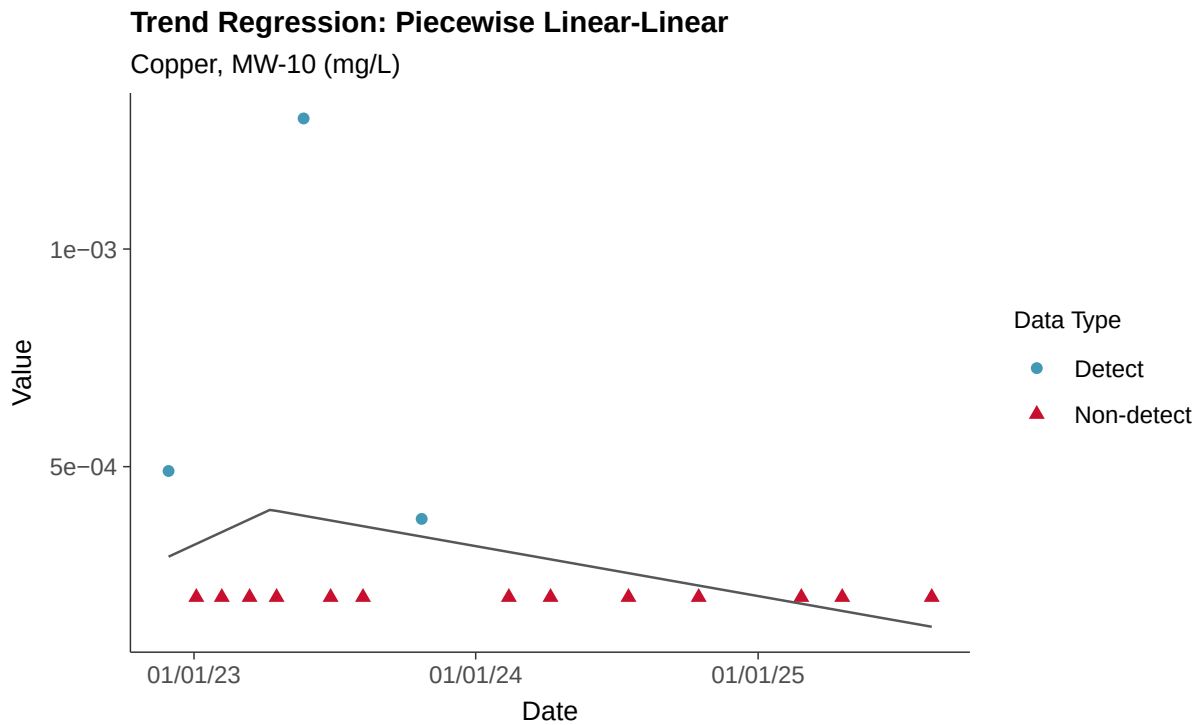
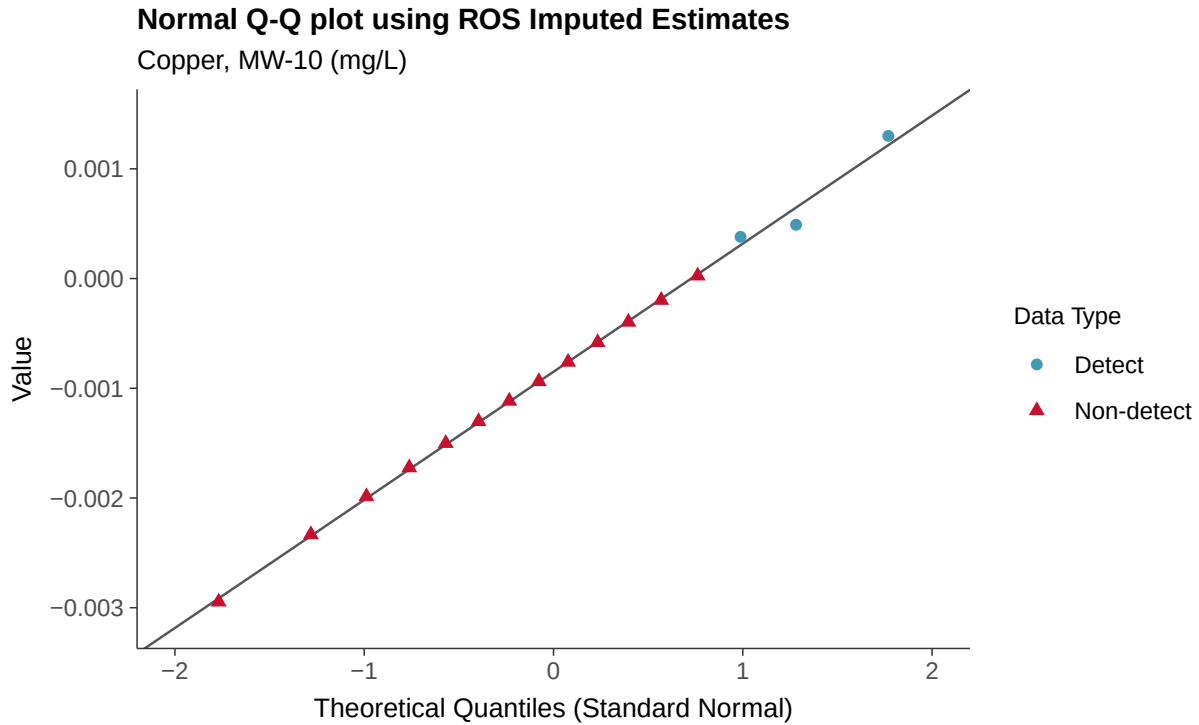
Copper, MW-10 (mg/L)



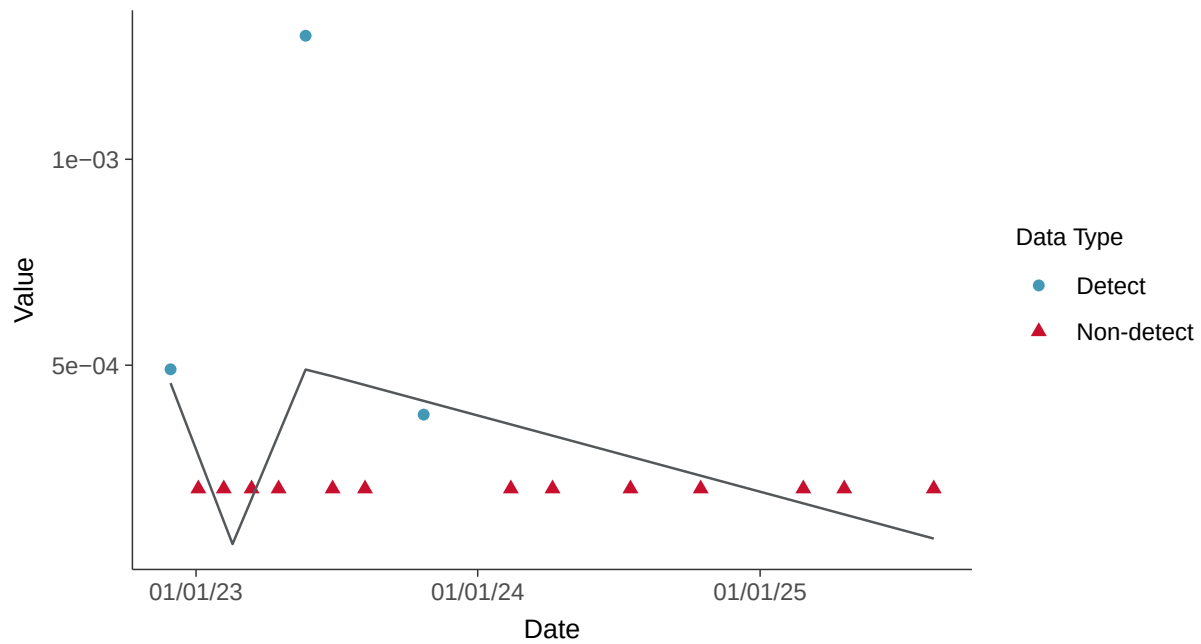
Boxplot by Season

Copper, MW-10 (mg/L)



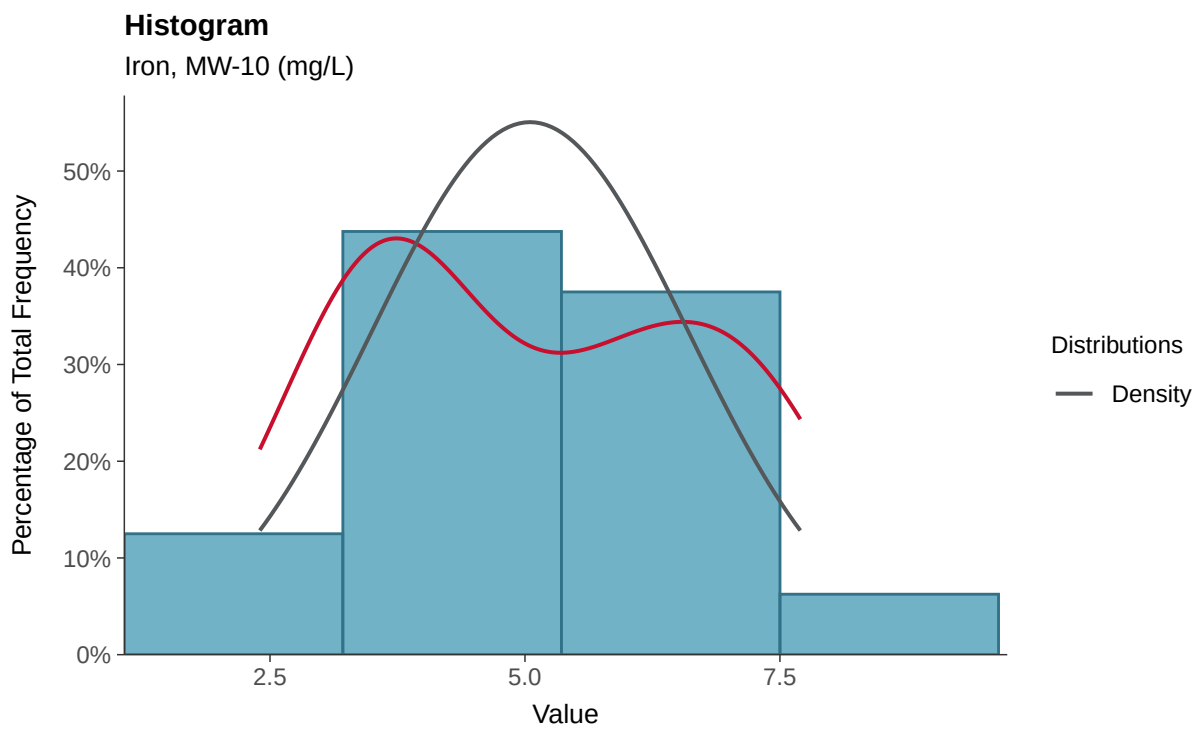
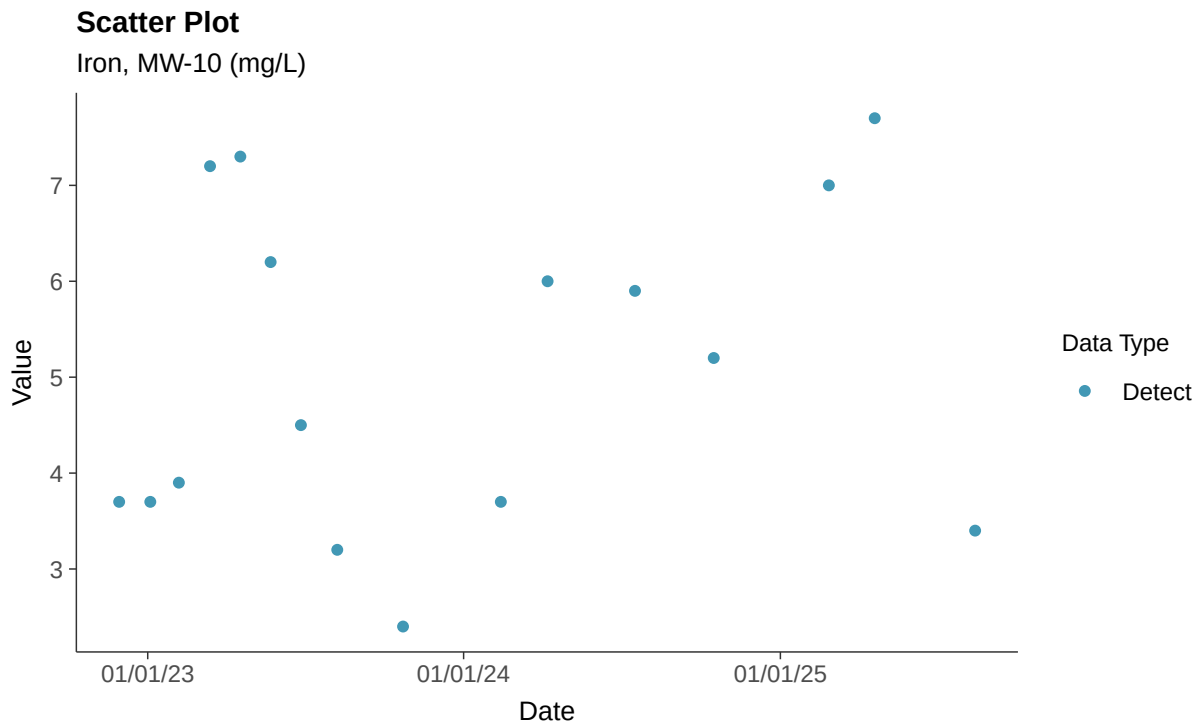


Copper, MW-10 (mg/L)



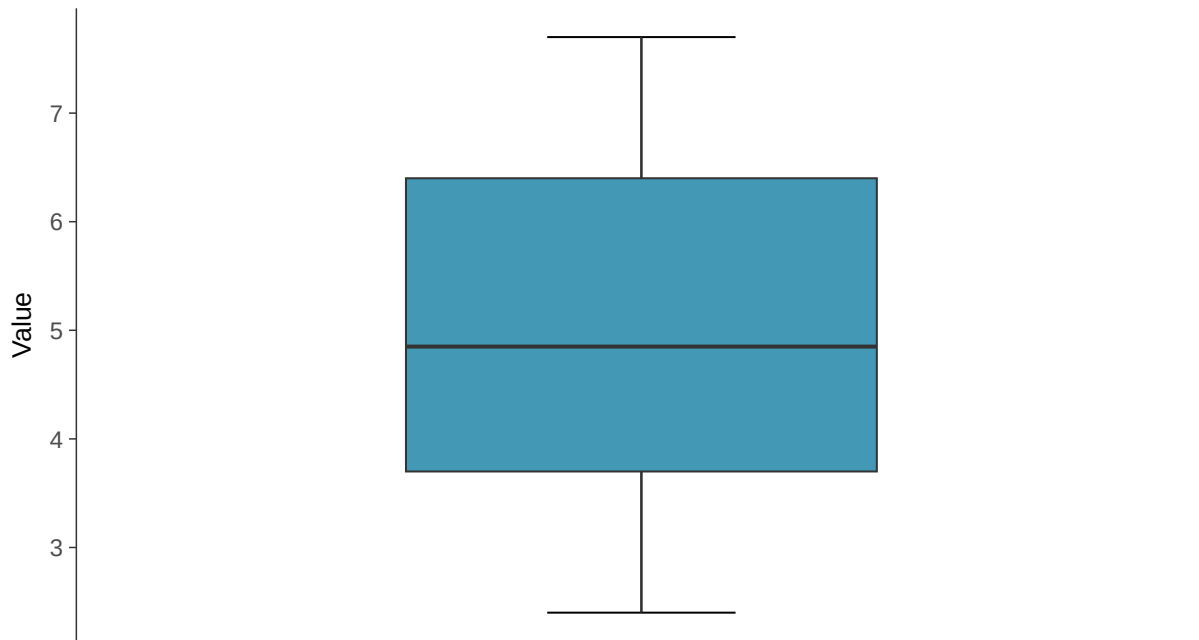
Part 115: Iron, MW-10

ID: 20_3_5_114



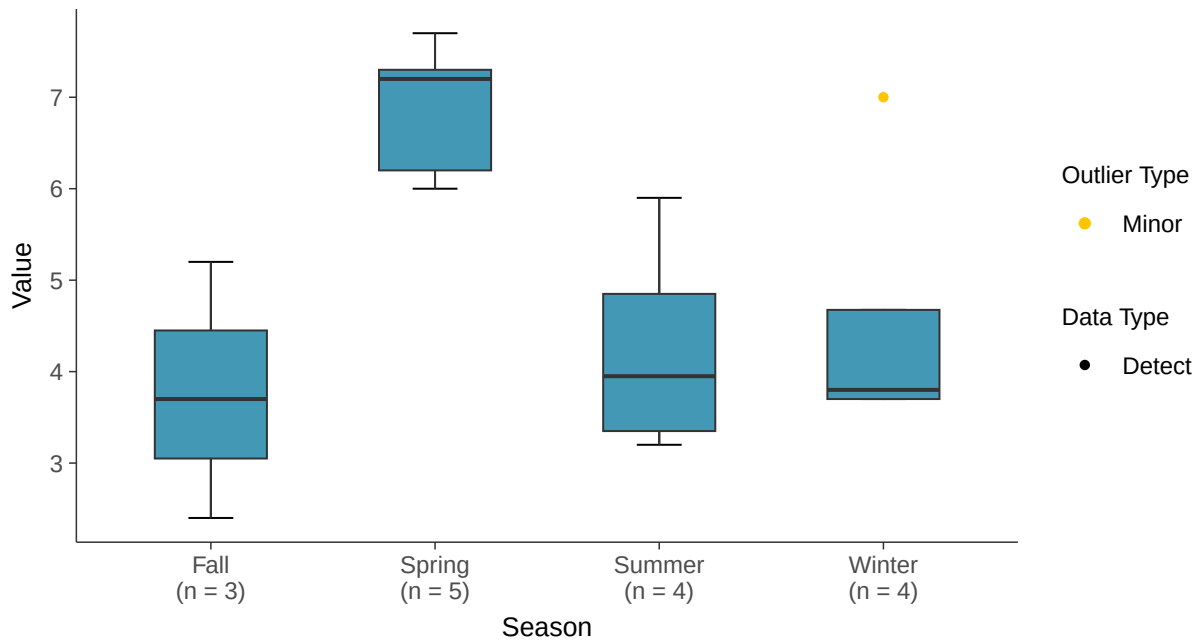
Boxplot

Iron, MW-10 (mg/L)



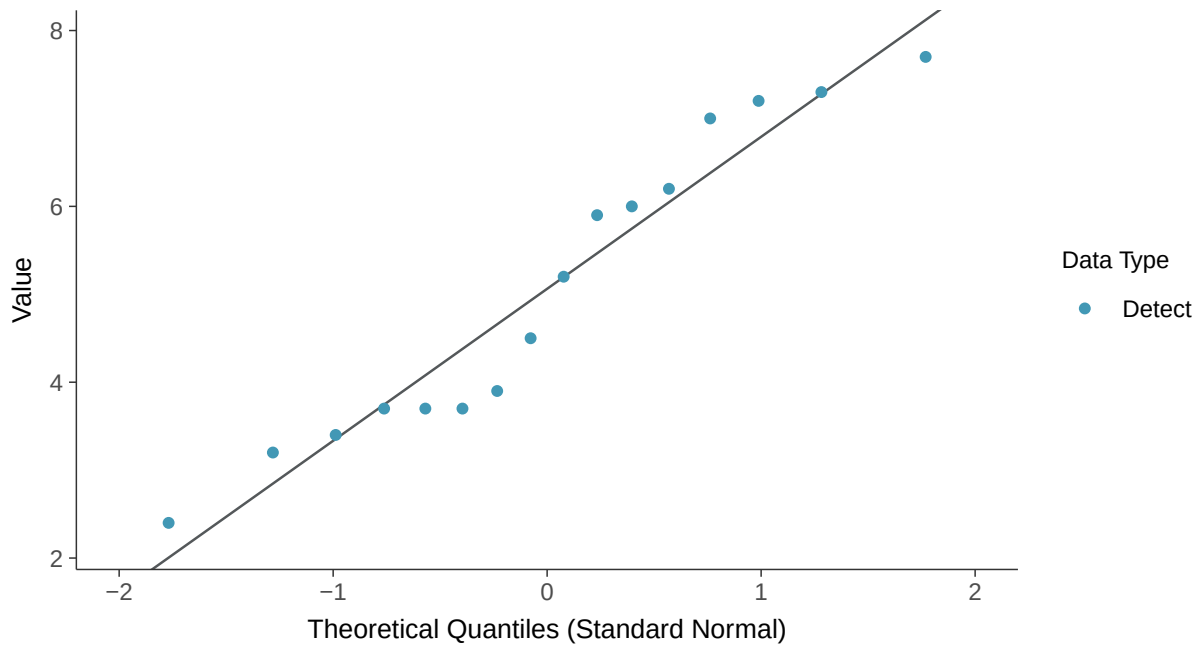
Boxplot by Season

Iron, MW-10 (mg/L)



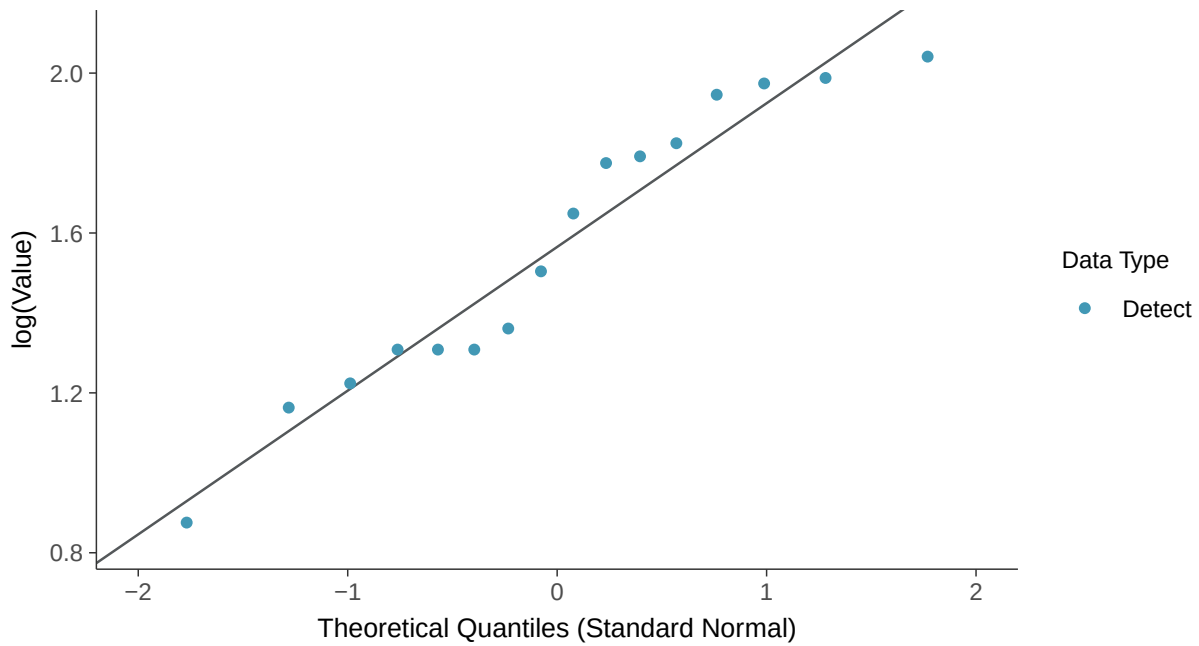
Normal Q-Q plot

Iron, MW-10 (mg/L)



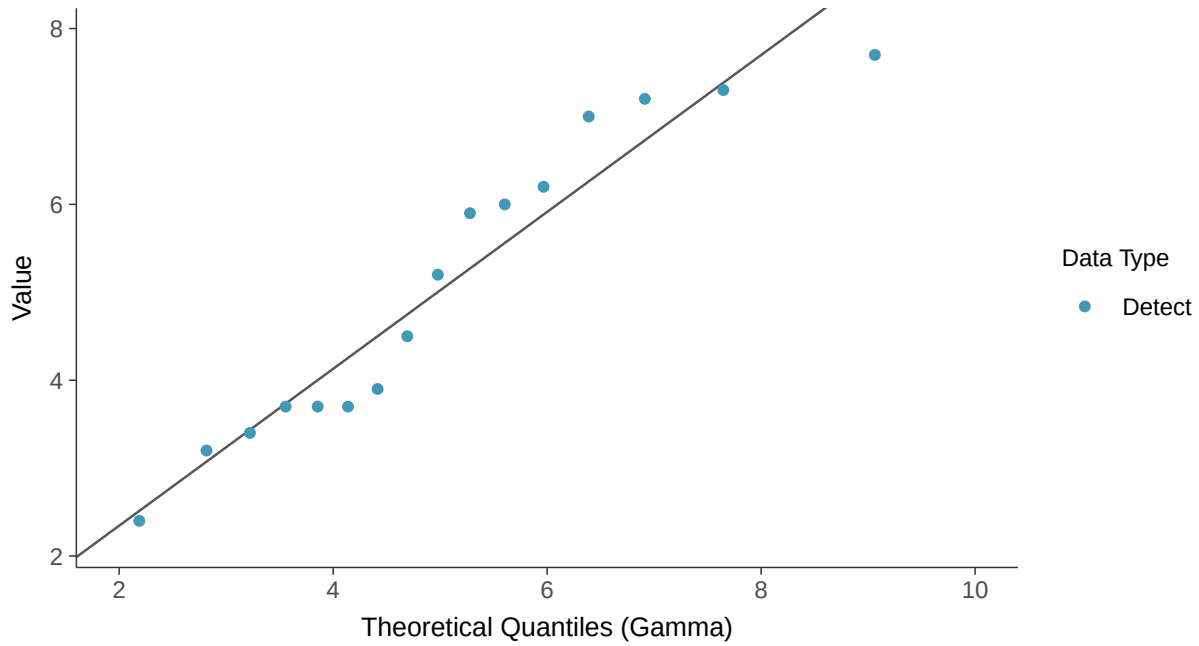
Lognormal Q-Q plot

Iron, MW-10 (mg/L)



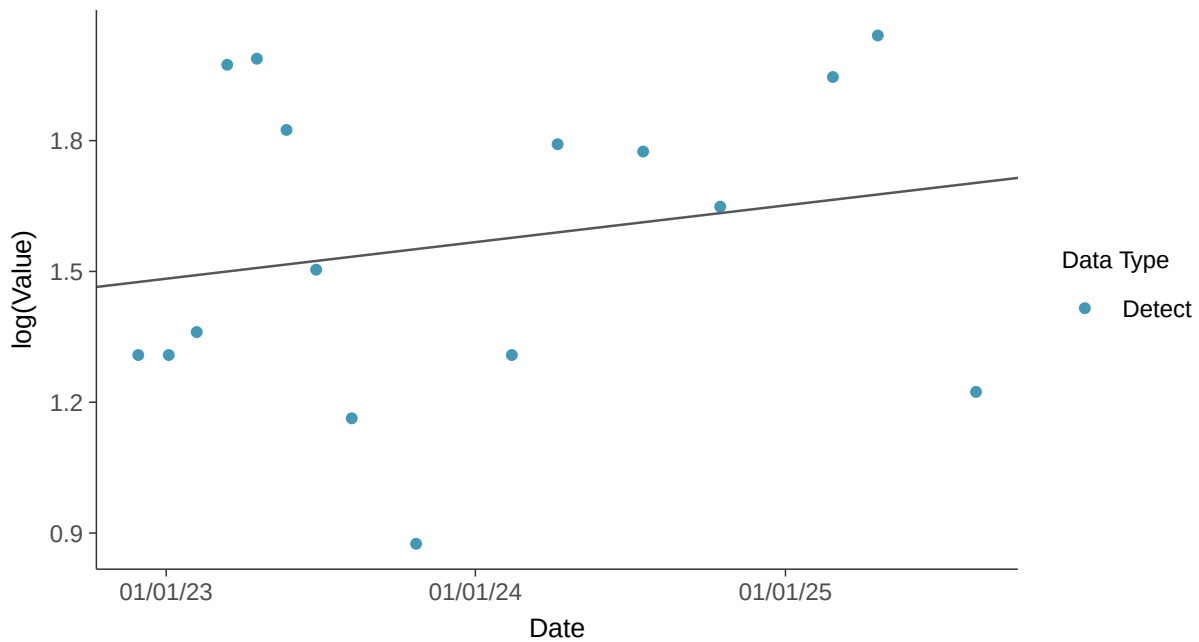
Gamma Q-Q plot

Iron, MW-10 (mg/L)



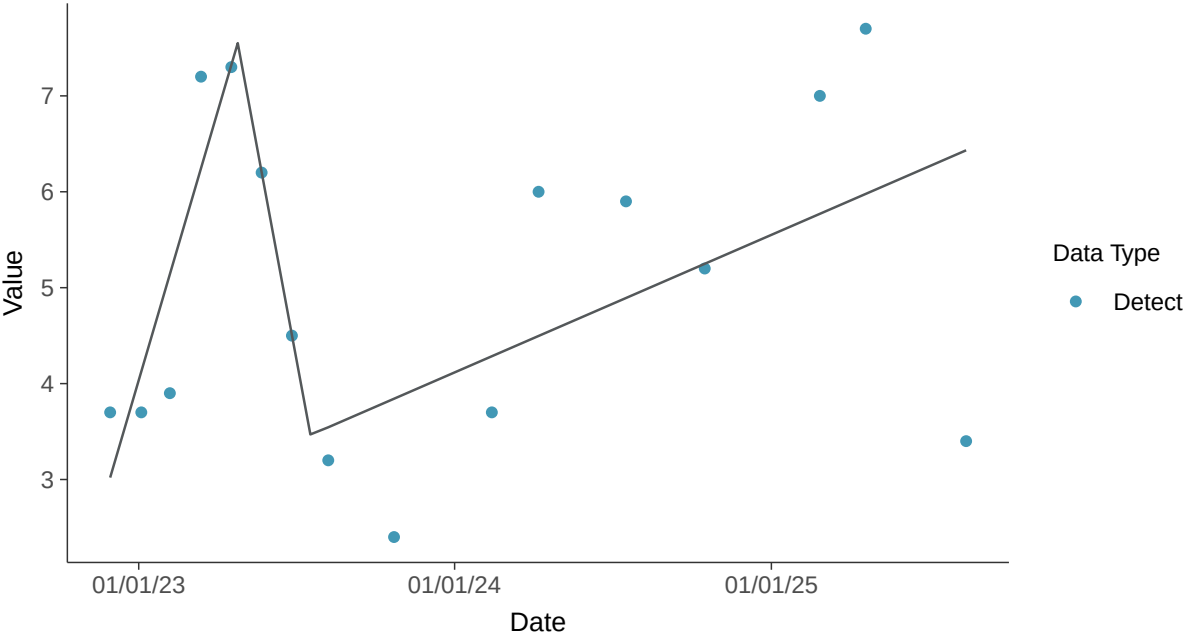
Trend Regression: Lognormal MLE

Iron, MW-10 (mg/L)



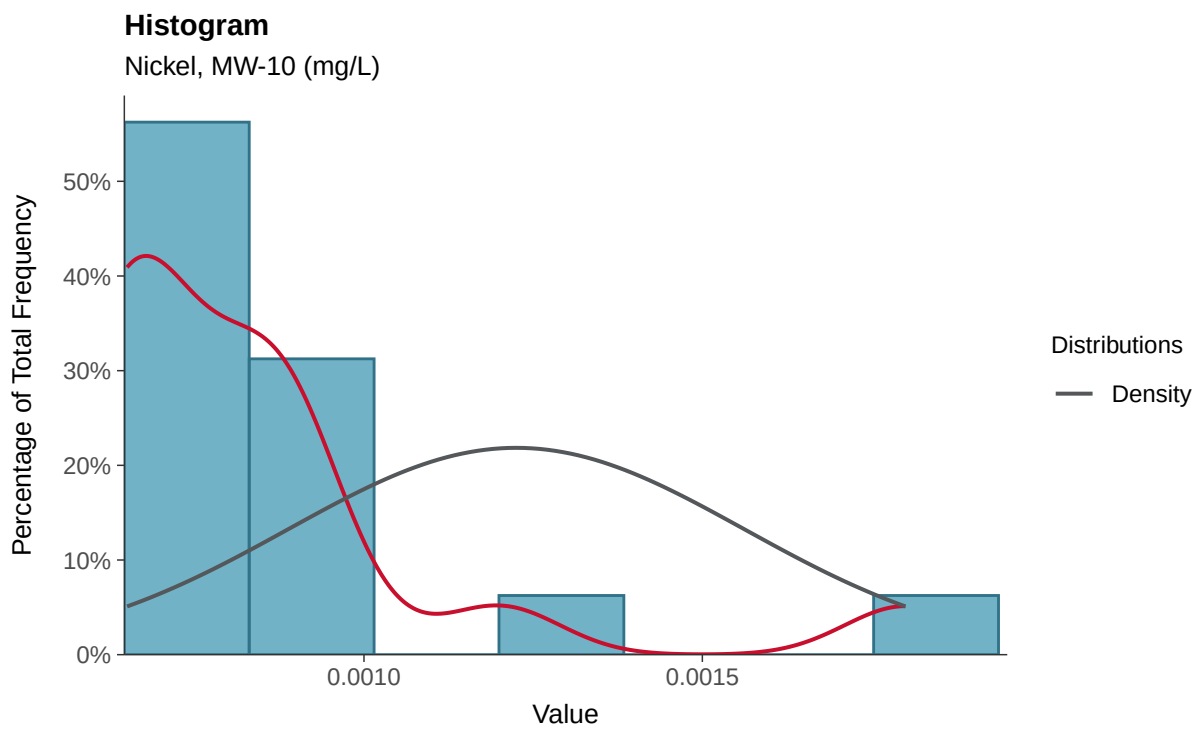
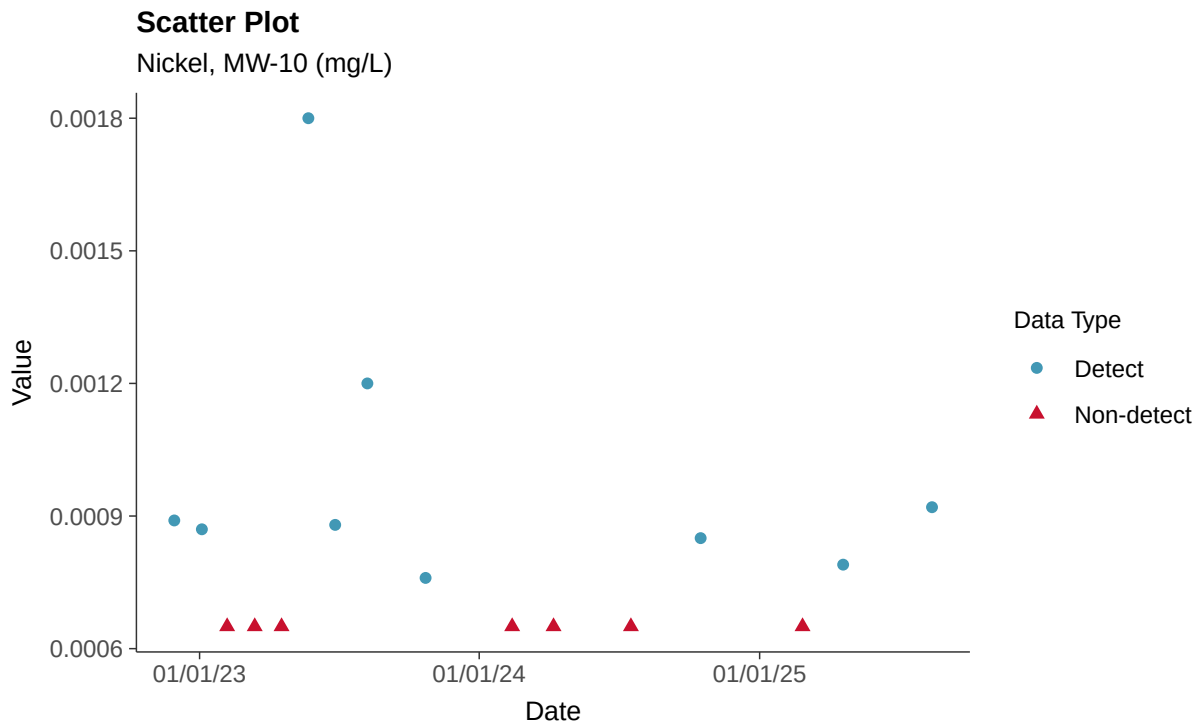


Trend Regression: Piecewise Linear-Linear-Linear
Iron, MW-10 (mg/L)



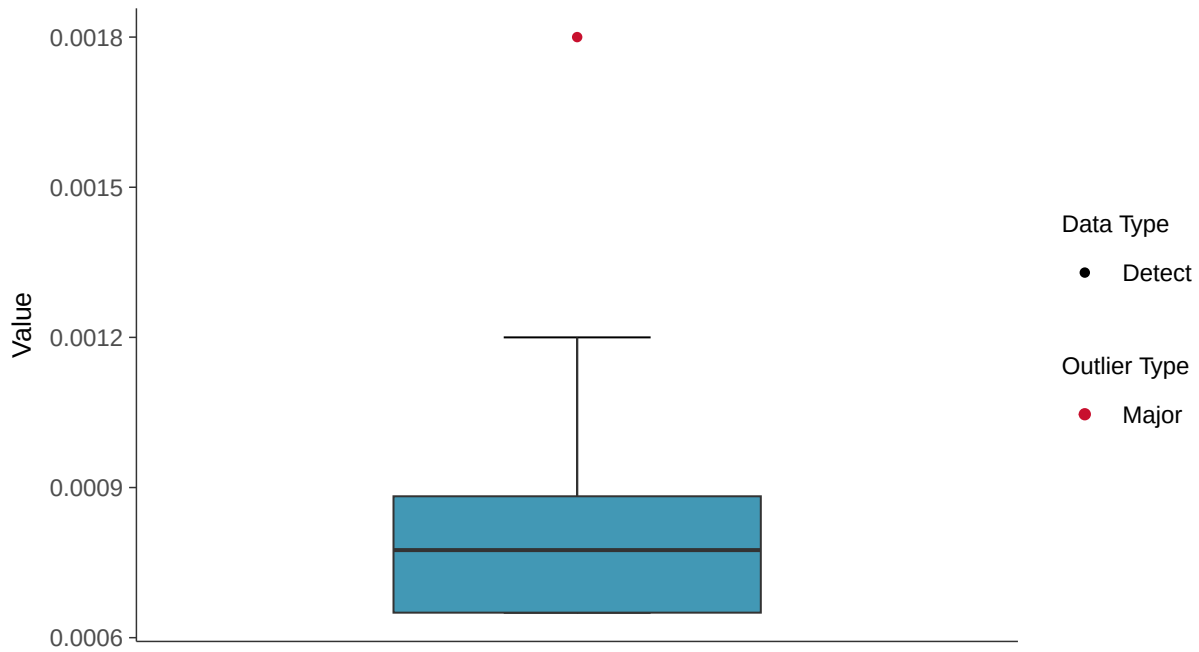
Part 115: Nickel, MW-10

ID: 20_3_5_119



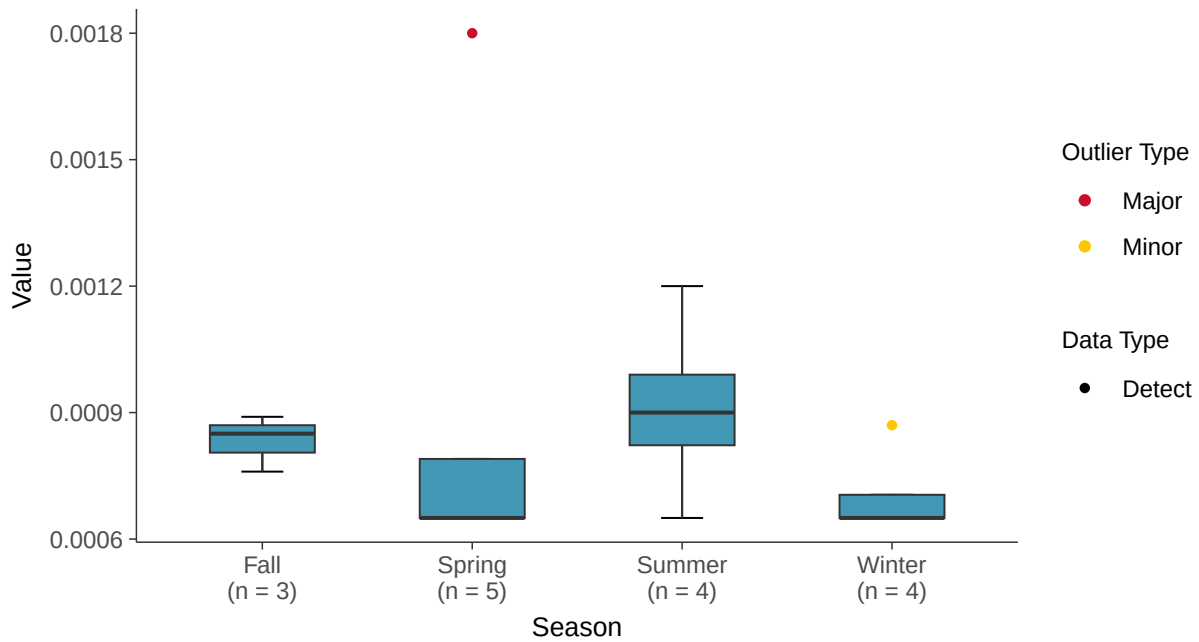
Boxplot

Nickel, MW-10 (mg/L)



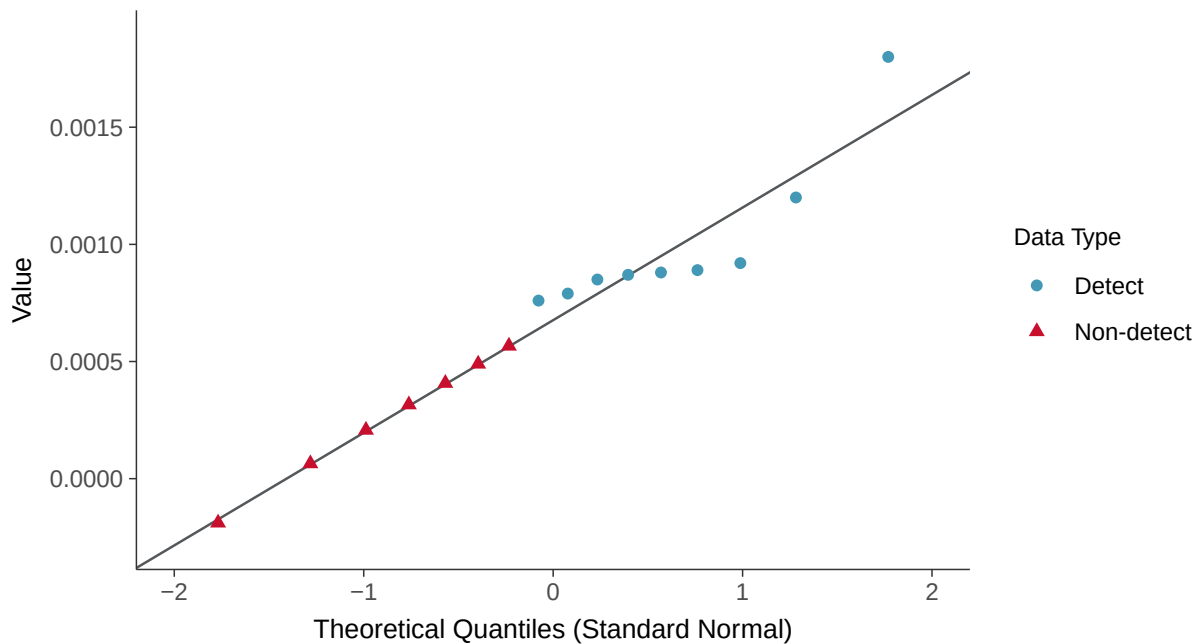
Boxplot by Season

Nickel, MW-10 (mg/L)



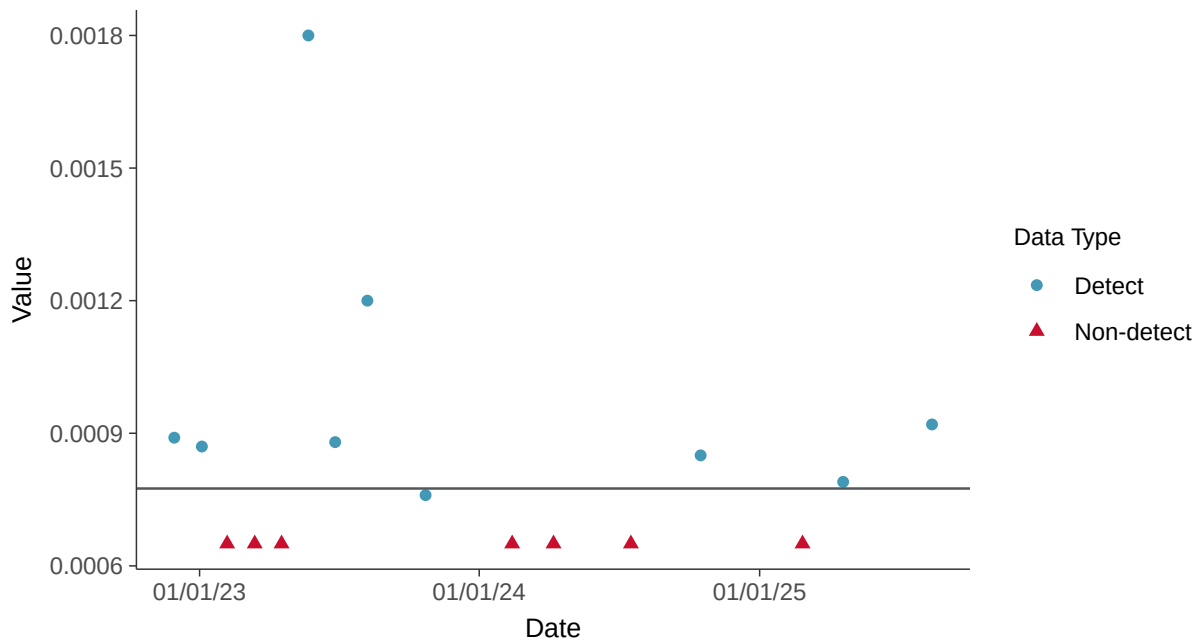
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-10 (mg/L)



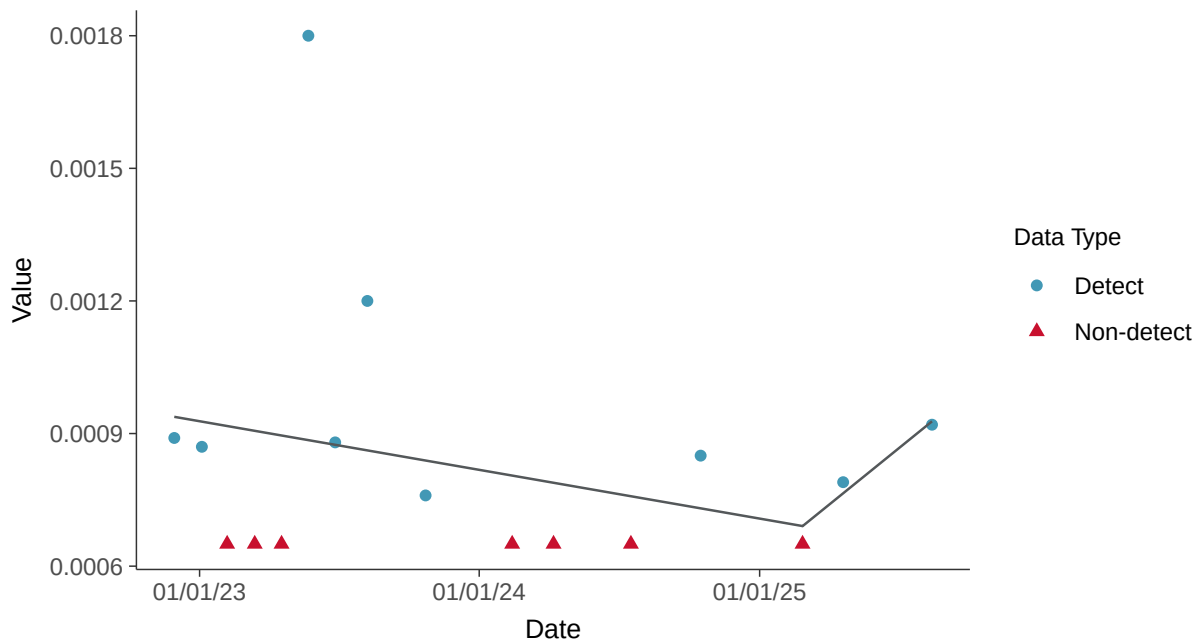
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-10 (mg/L)



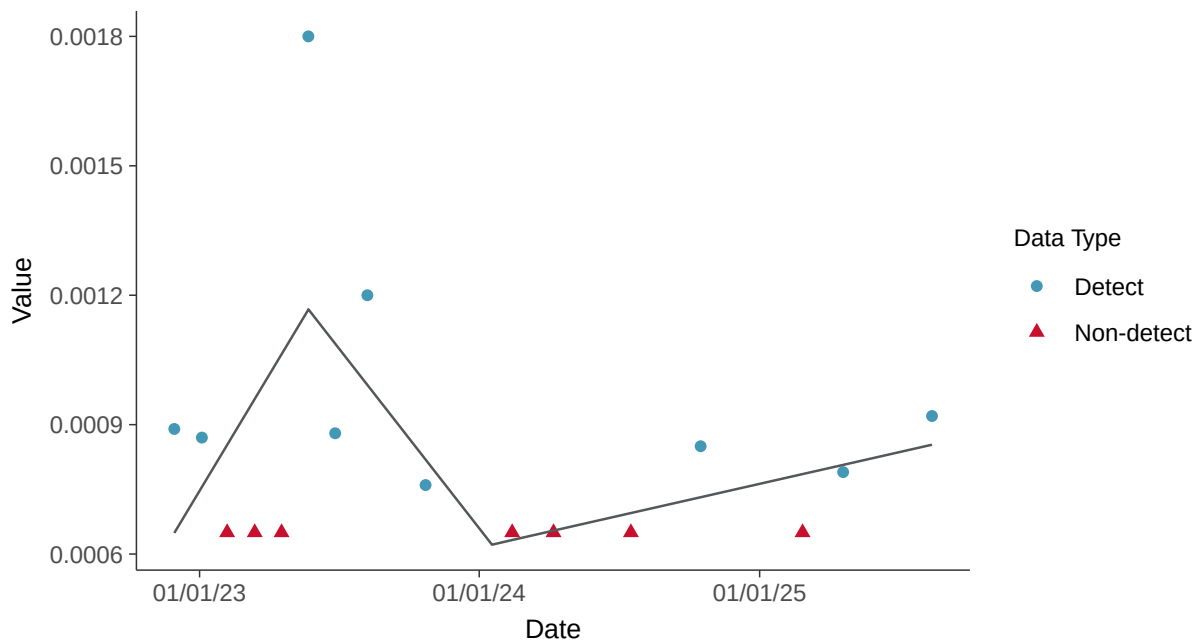
Trend Regression: Piecewise Linear-Linear

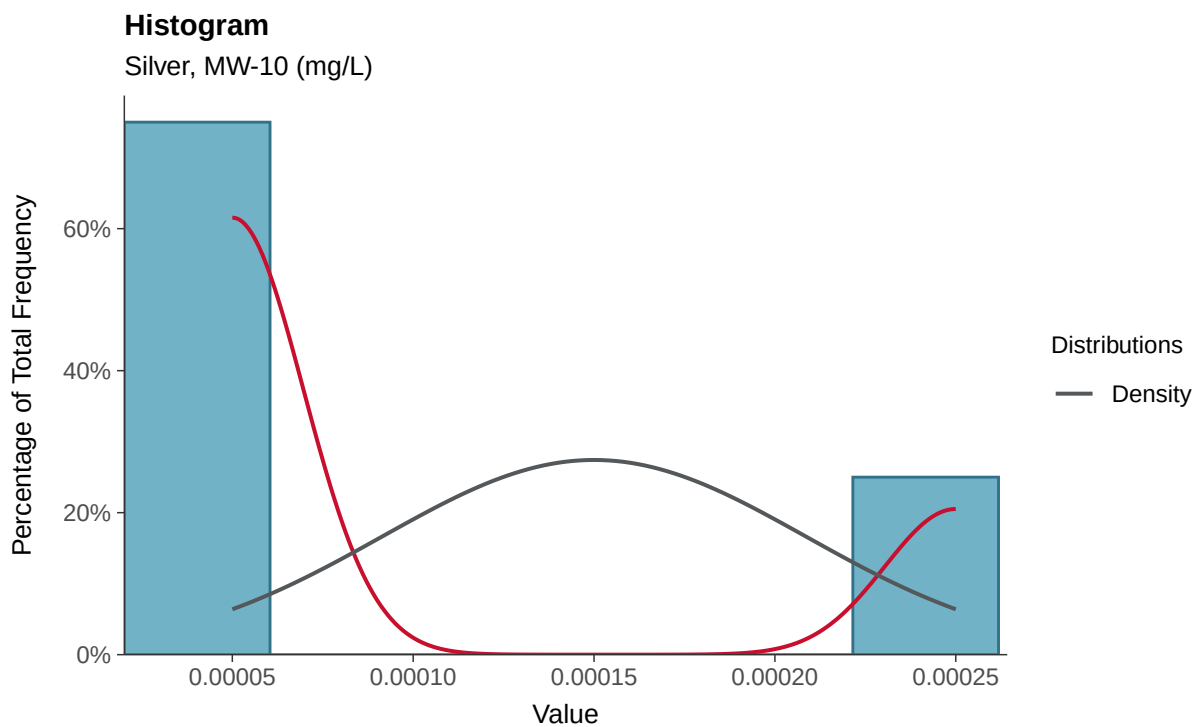
Nickel, MW-10 (mg/L)

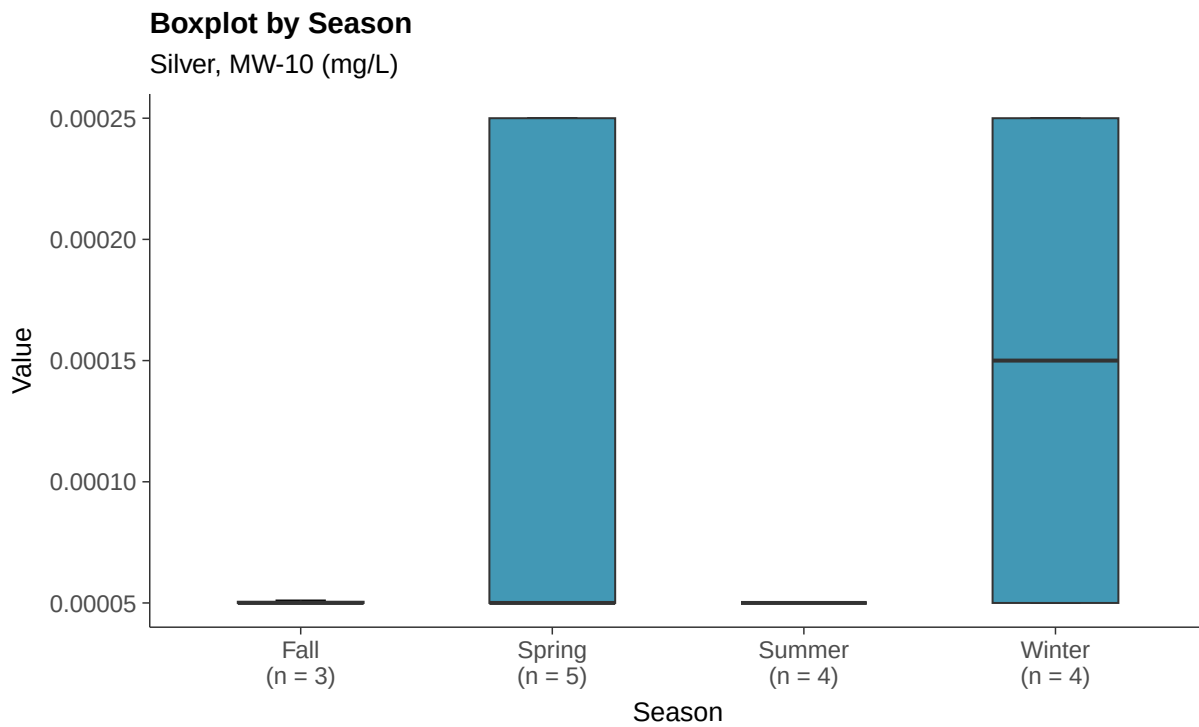
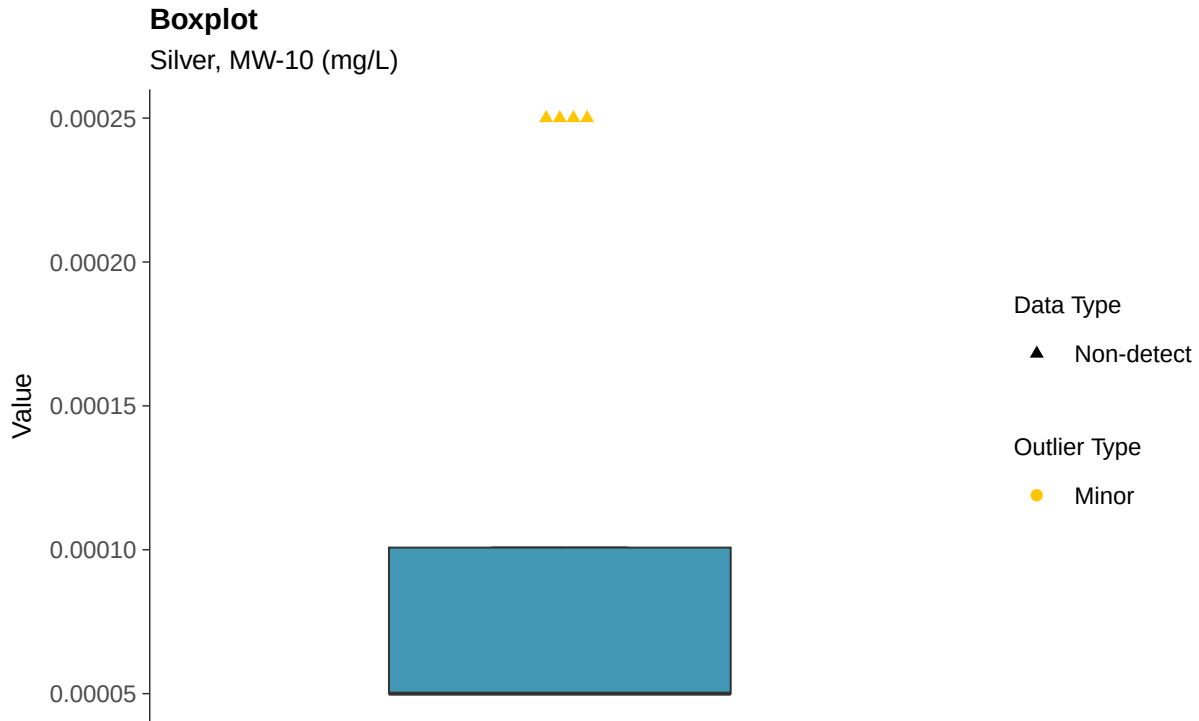


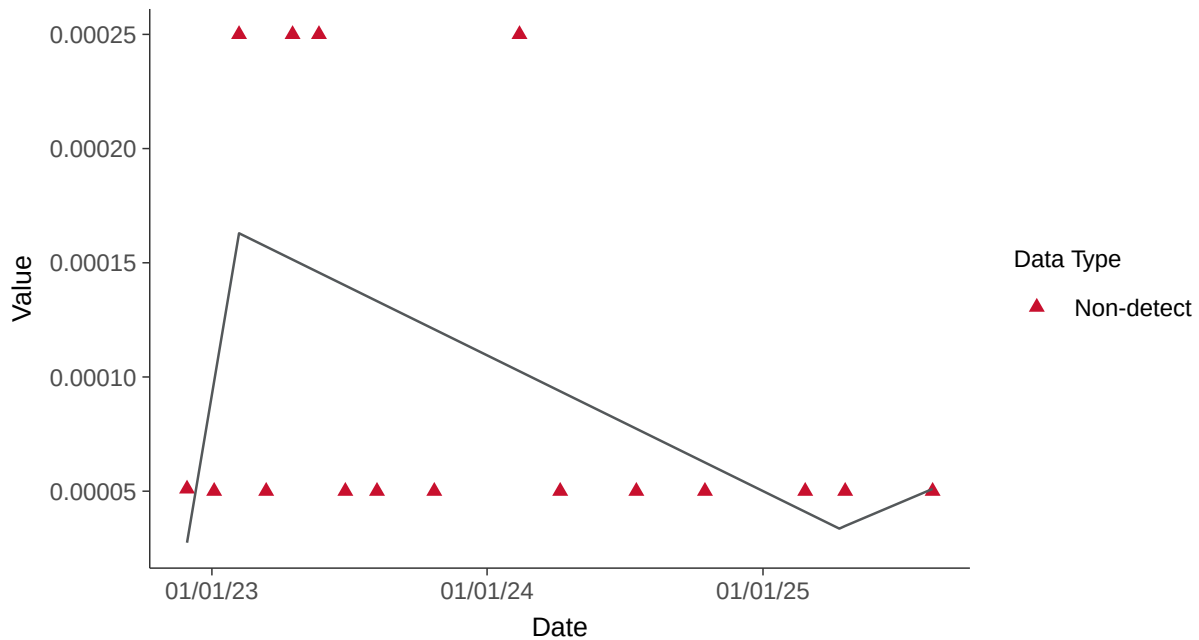
Trend Regression: Piecewise Linear-Linear-Linear

Nickel, MW-10 (mg/L)



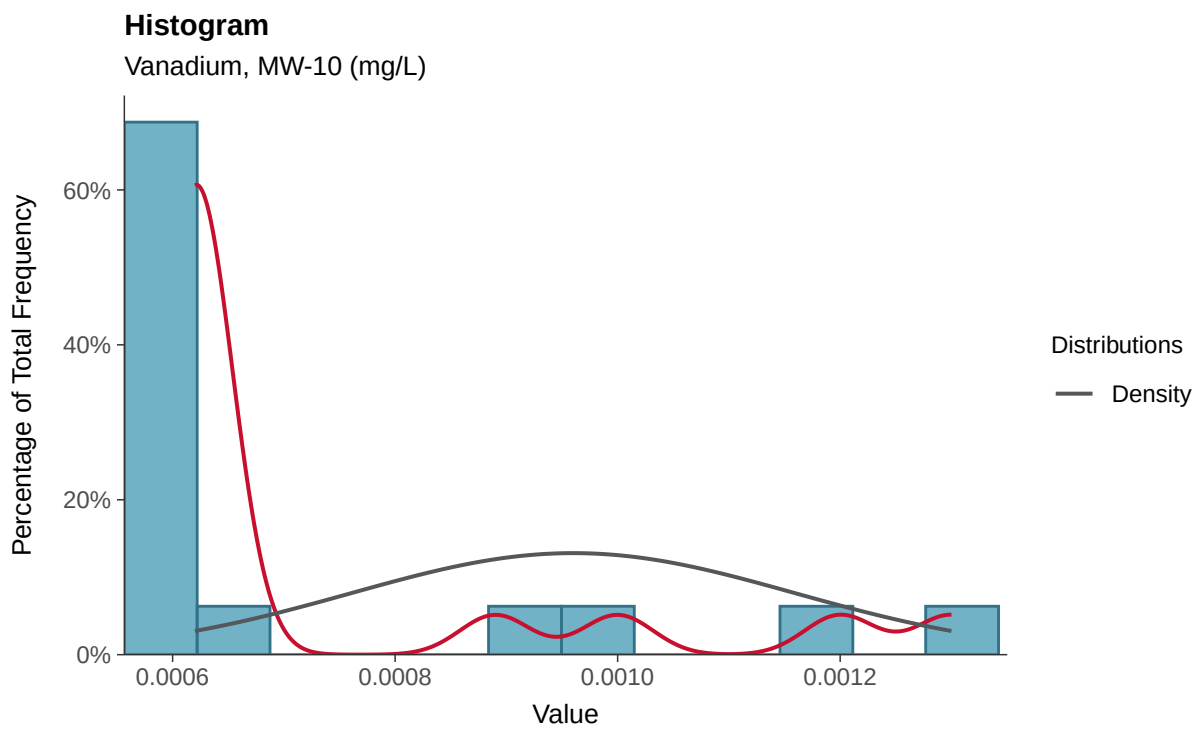
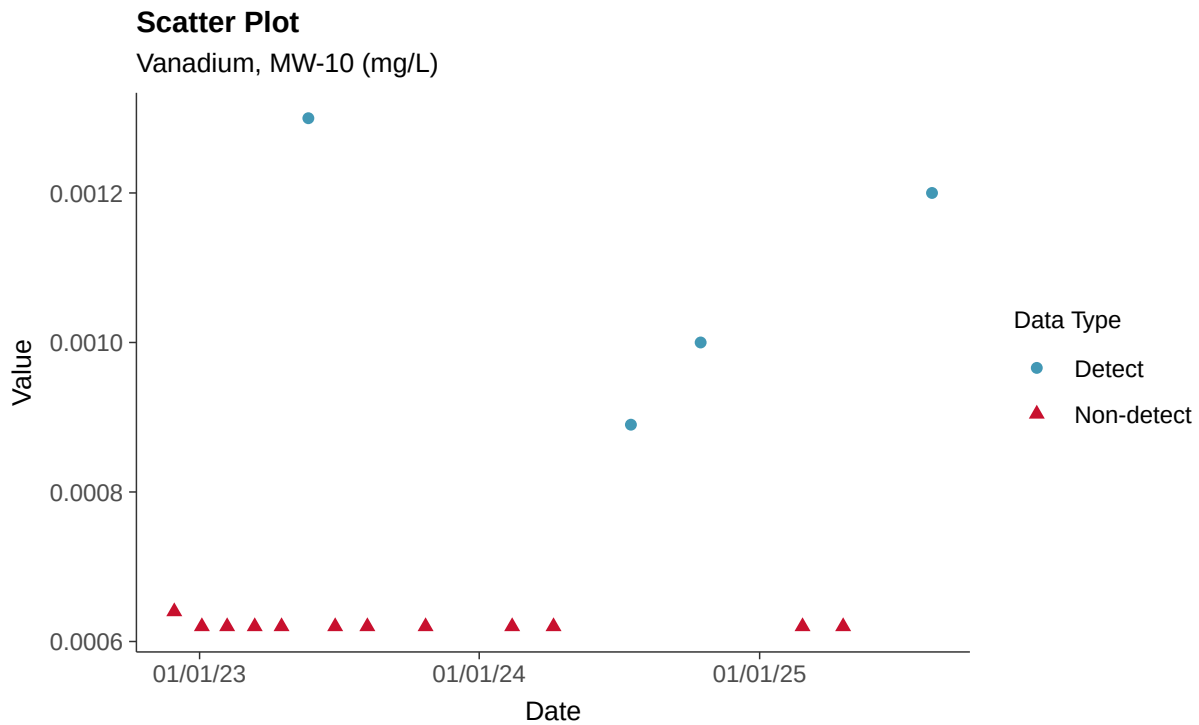


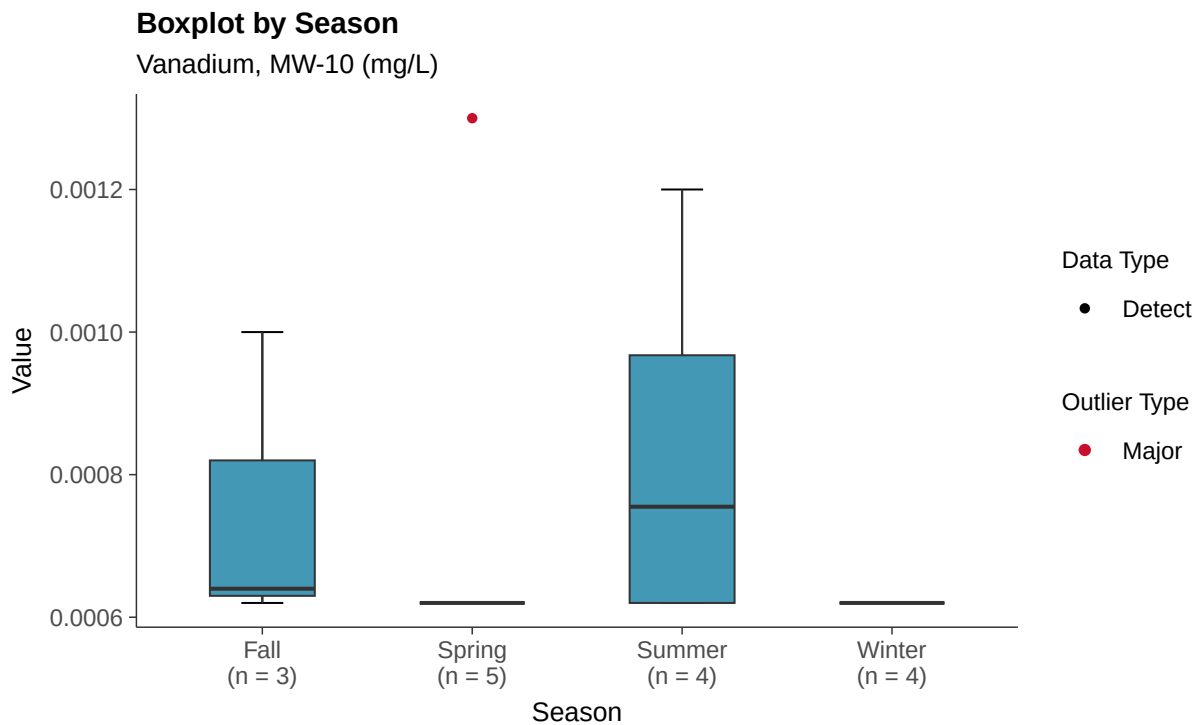
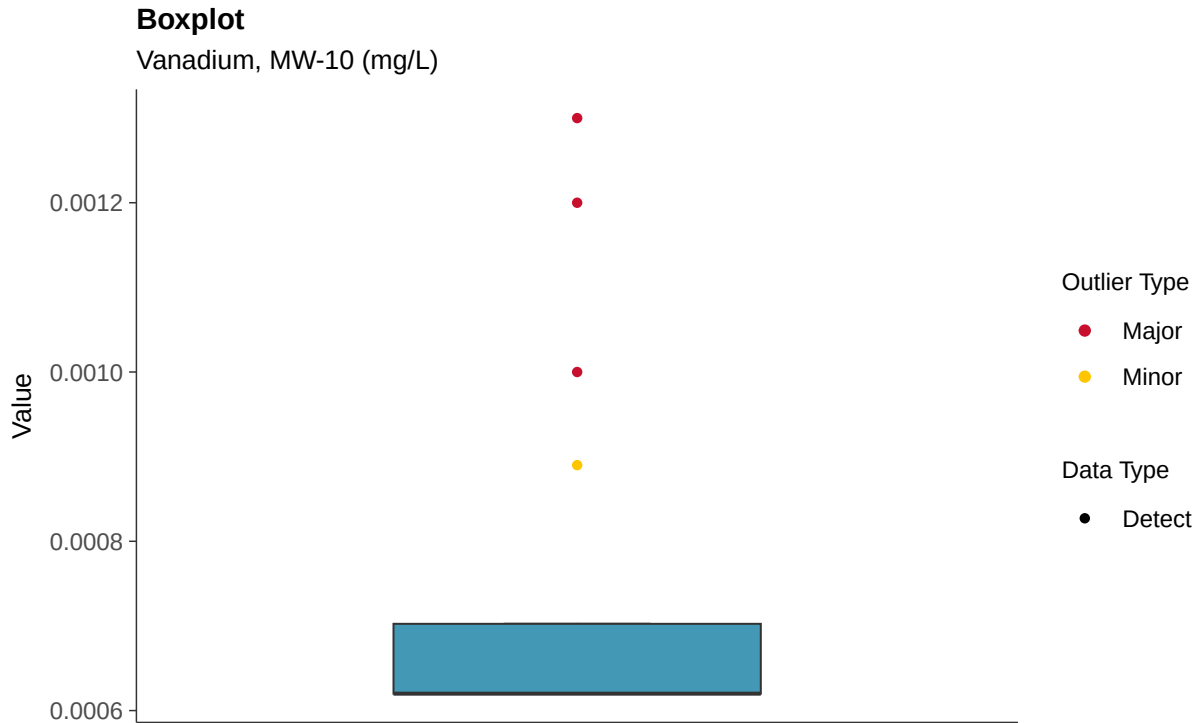


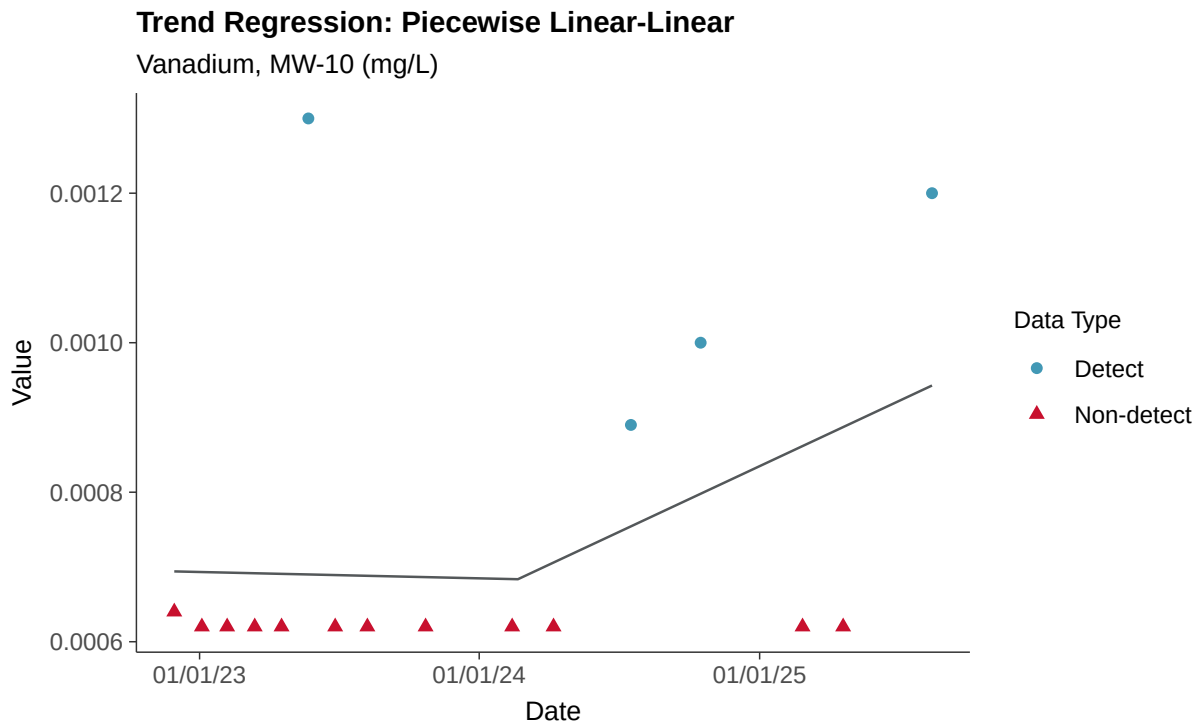
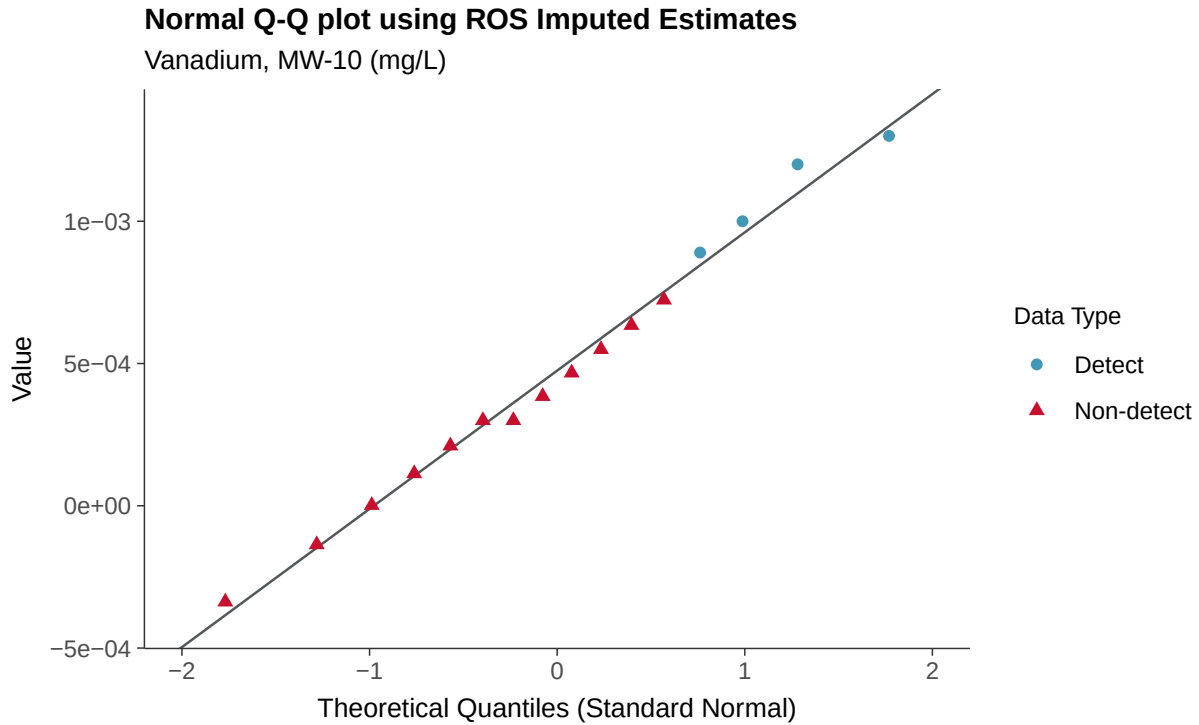


Part 115: Vanadium, MW-10

ID: 20_3_5_128

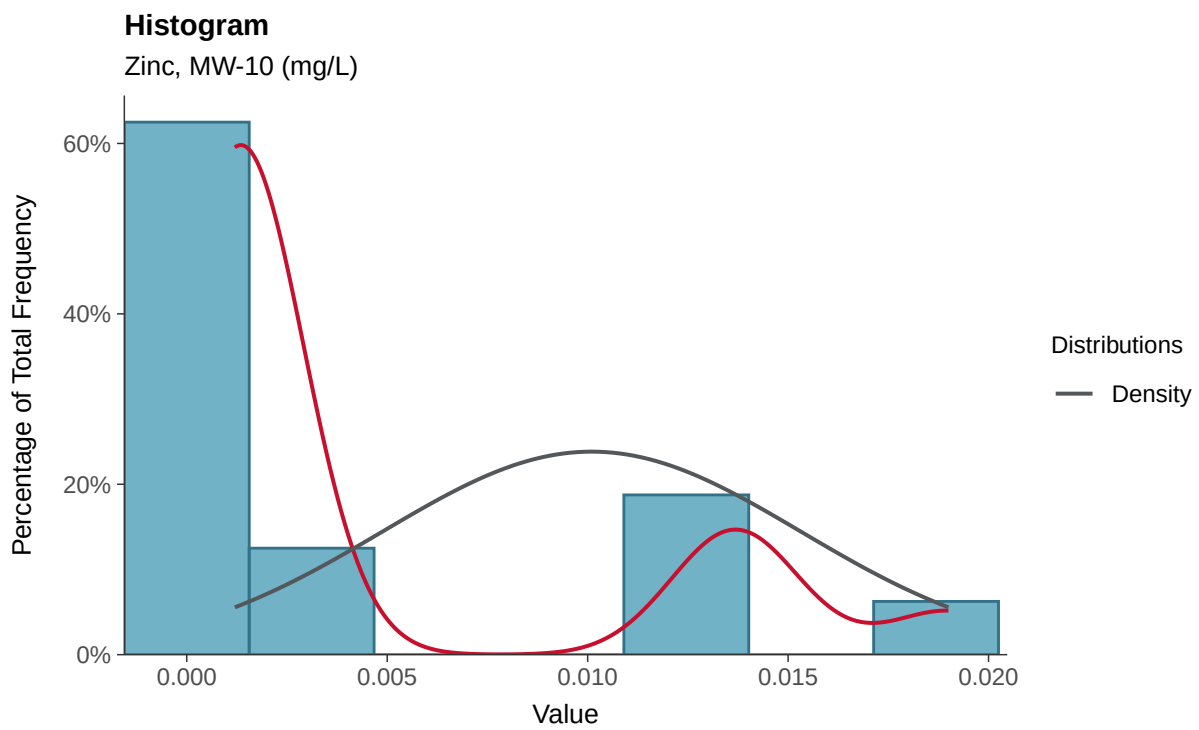
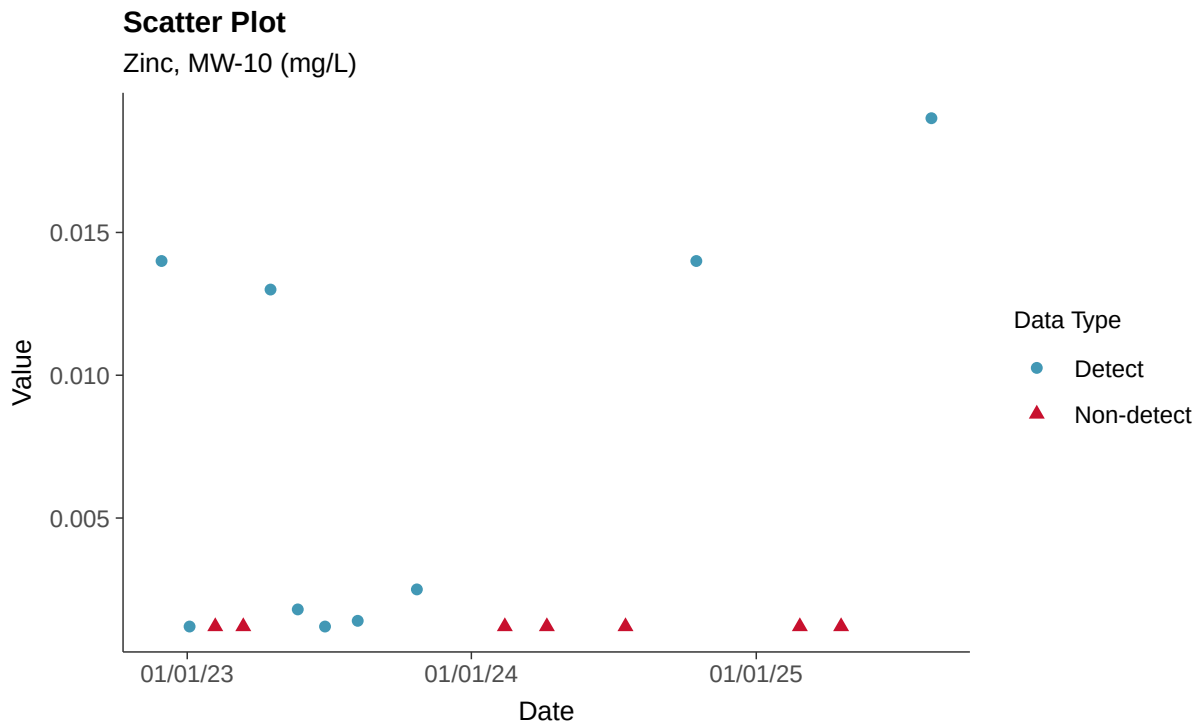


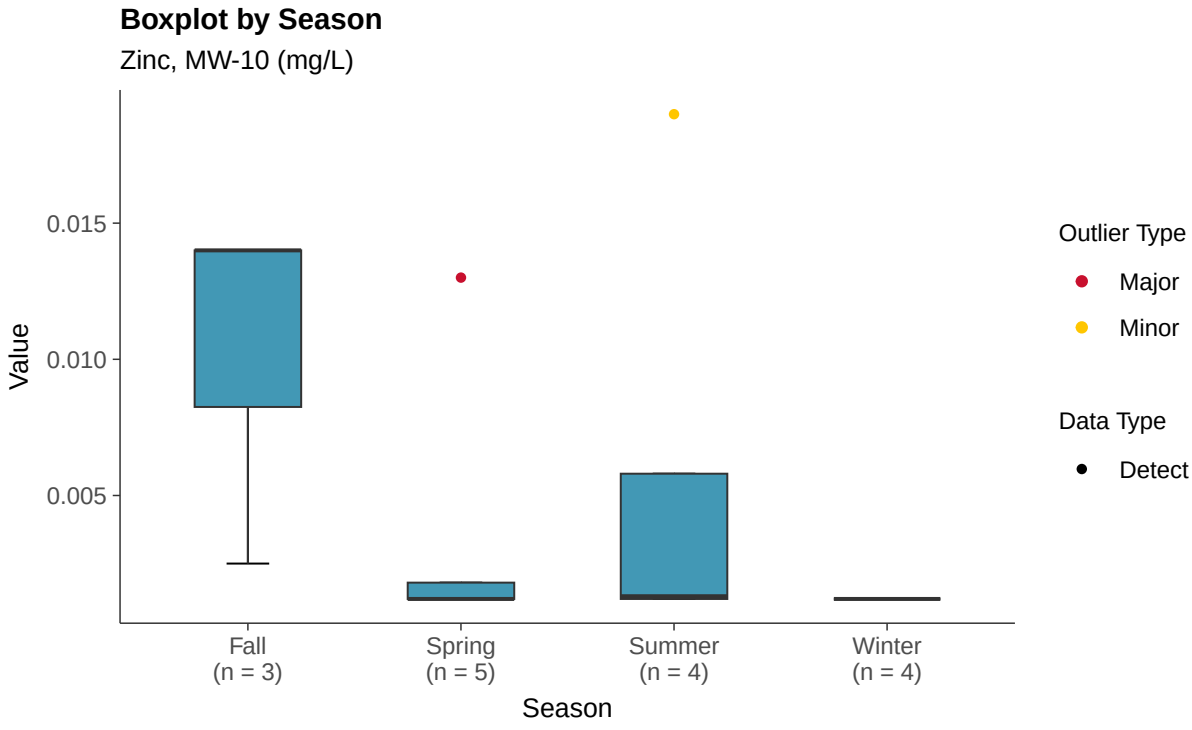
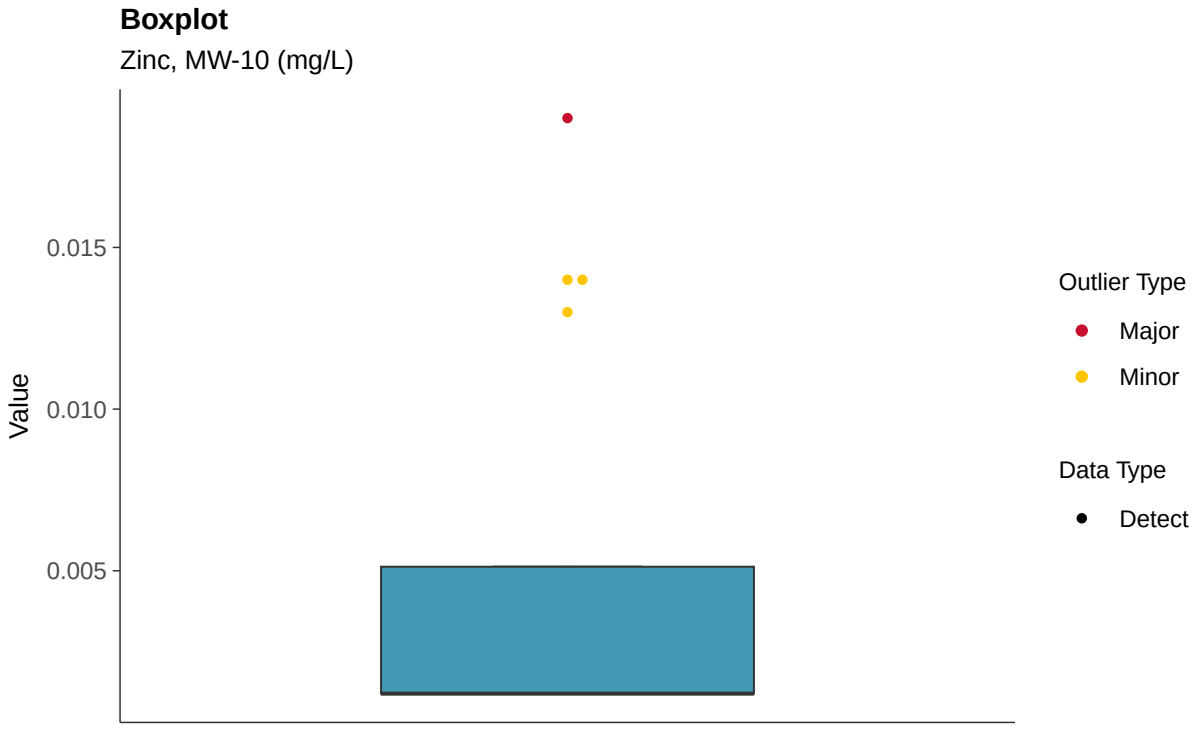




Part 115: Zinc, MW-10

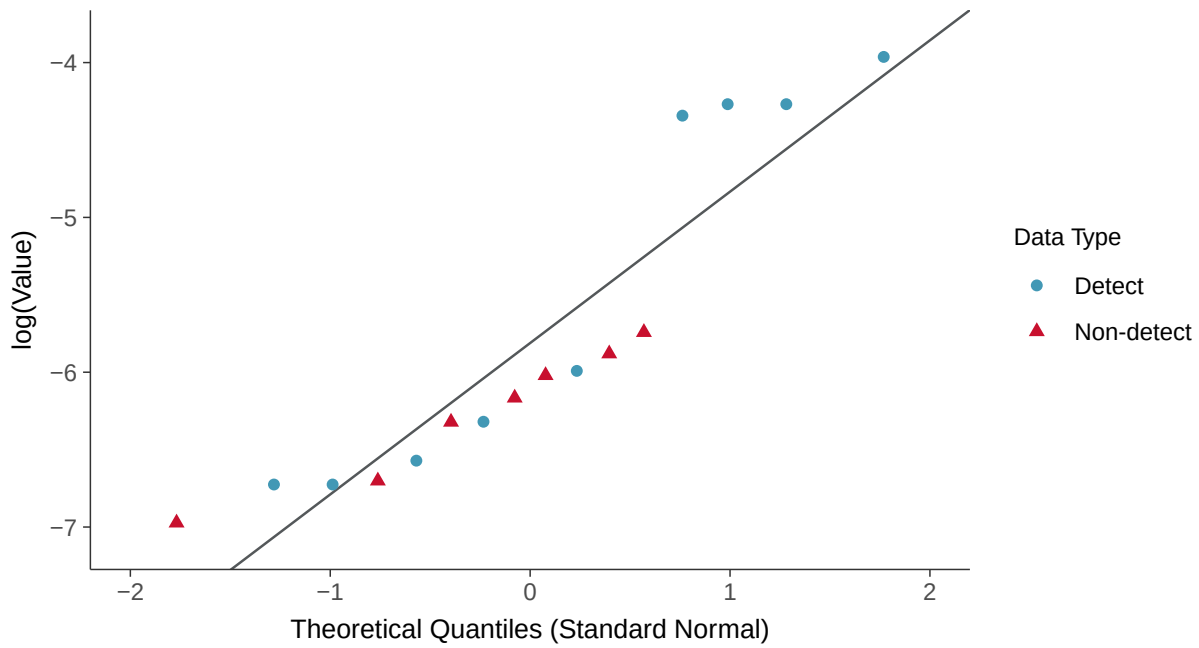
ID: 20_3_5_129





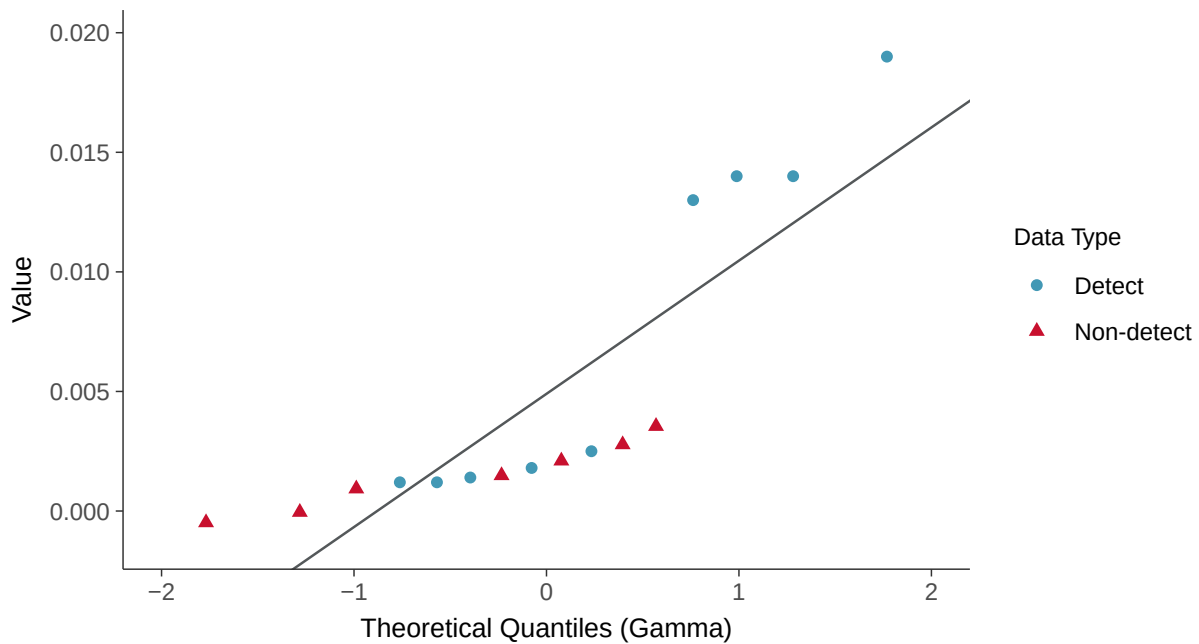
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-10 (mg/L)

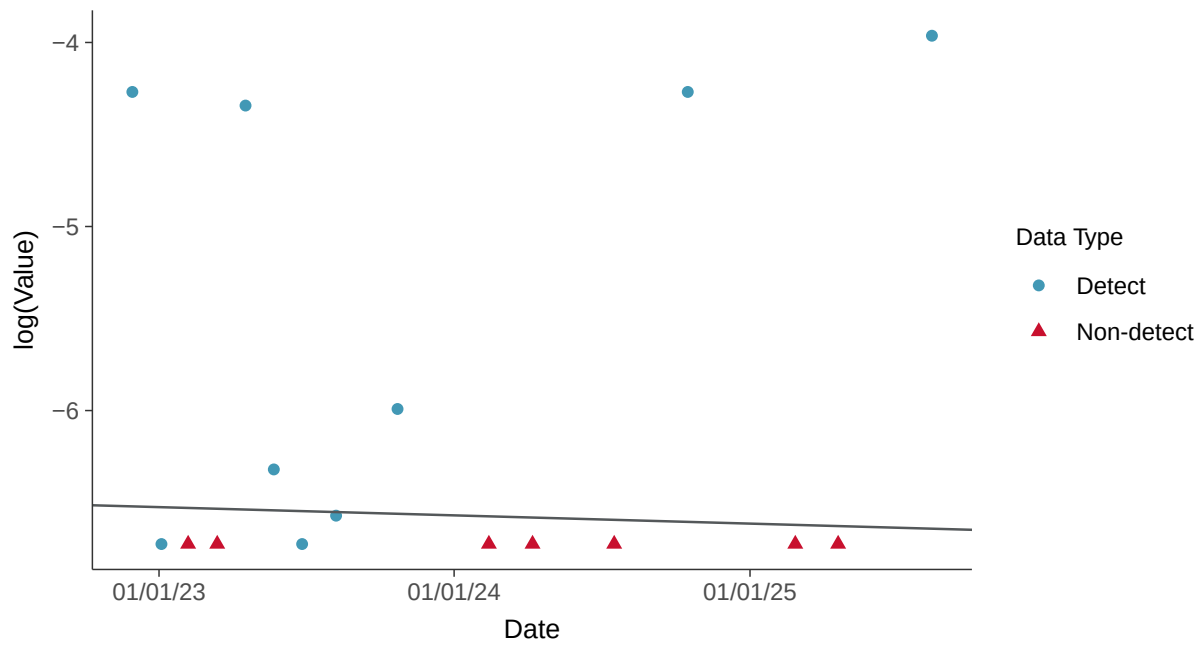


Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-10 (mg/L)

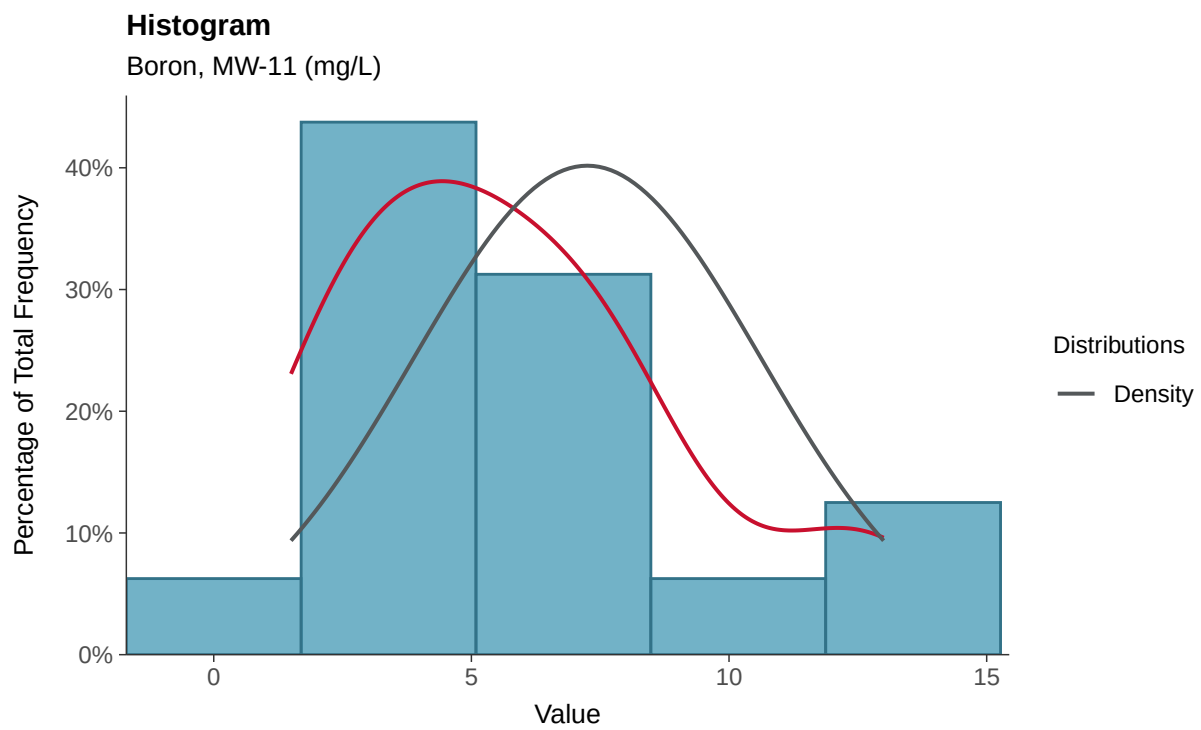
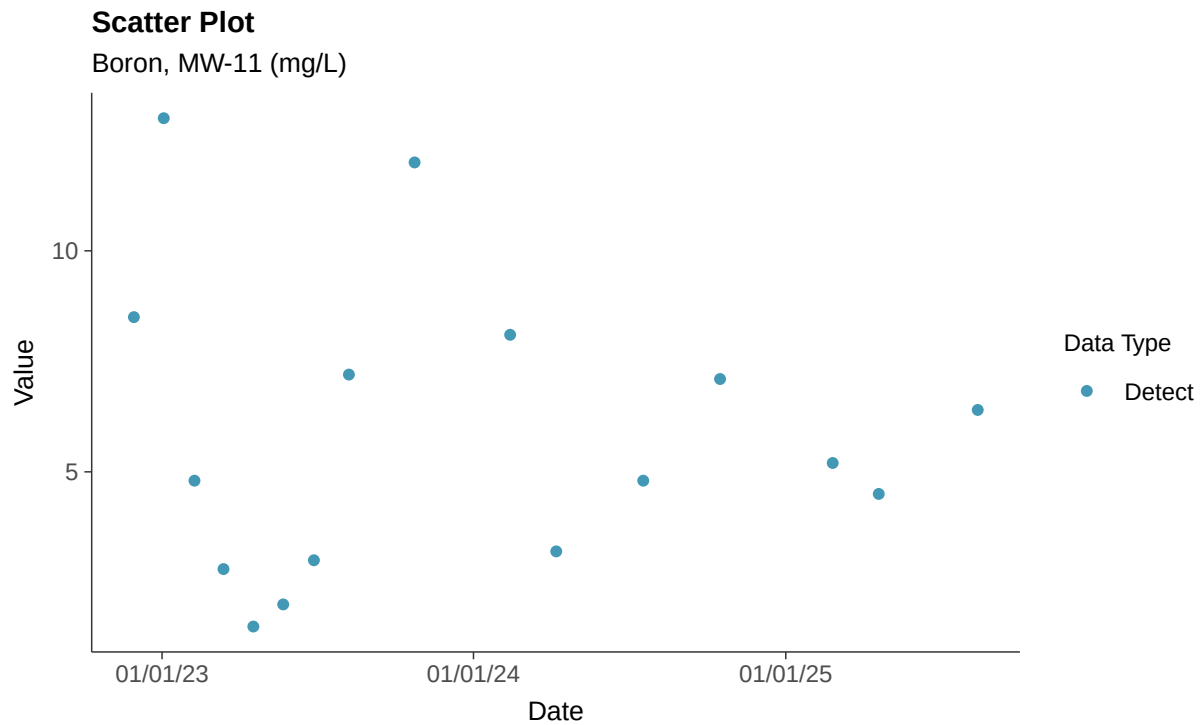


Zinc, MW-10 (mg/L)



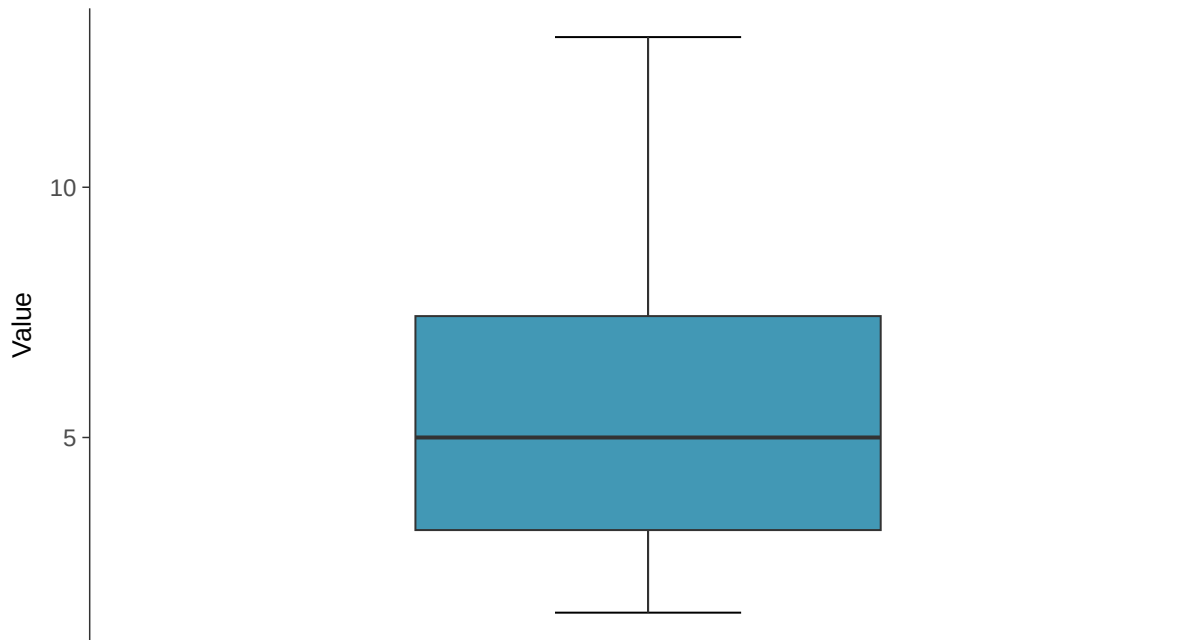
Appendix III: Boron, MW-11

ID: 21_2_3_105



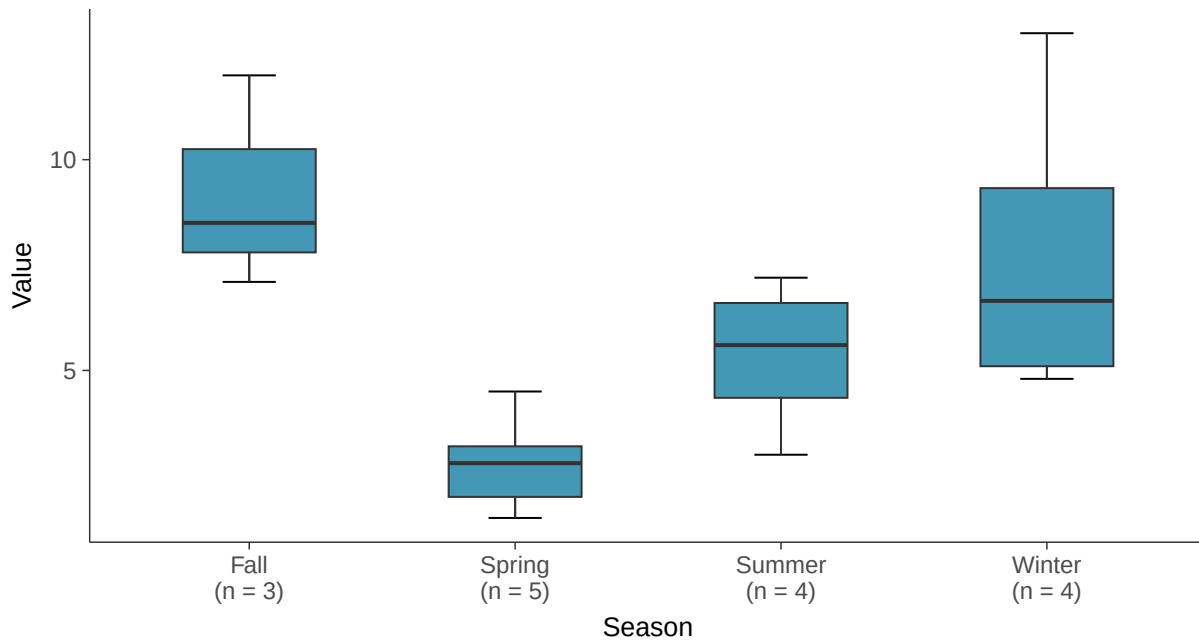
Boxplot

Boron, MW-11 (mg/L)



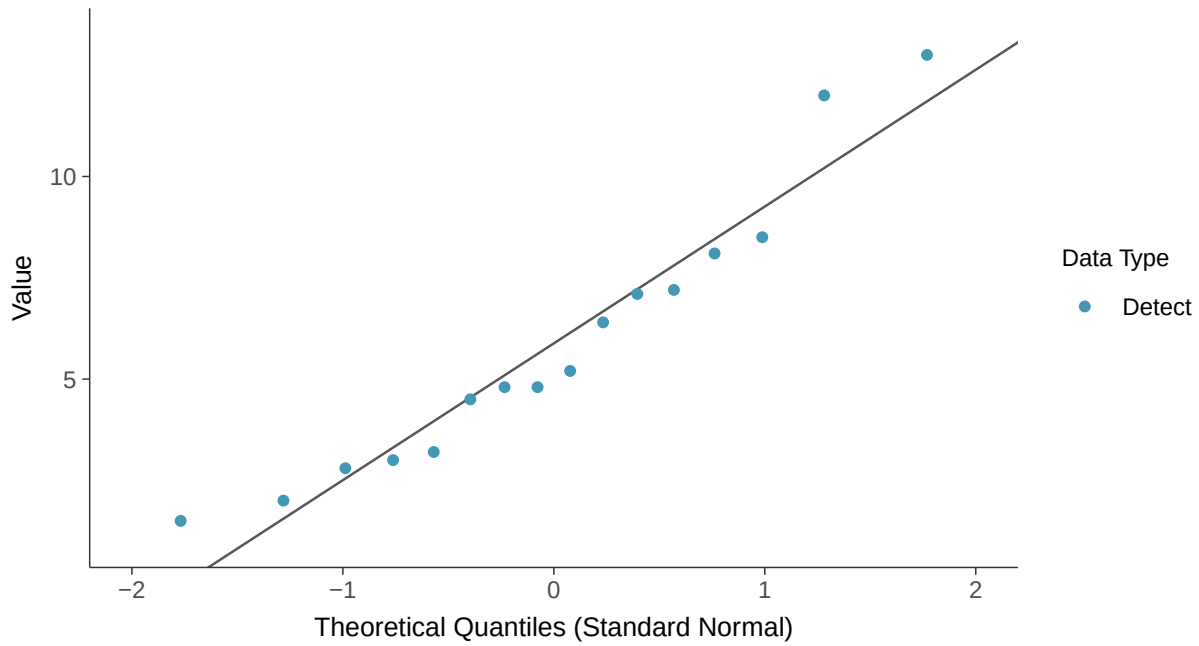
Boxplot by Season

Boron, MW-11 (mg/L)



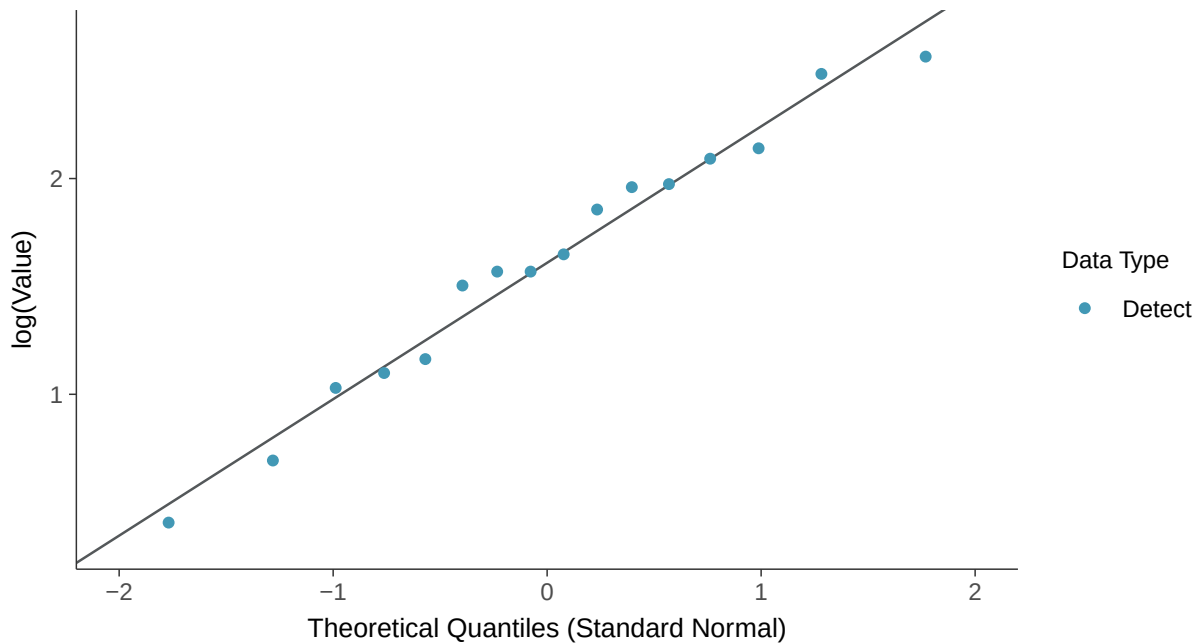
Normal Q-Q plot

Boron, MW-11 (mg/L)

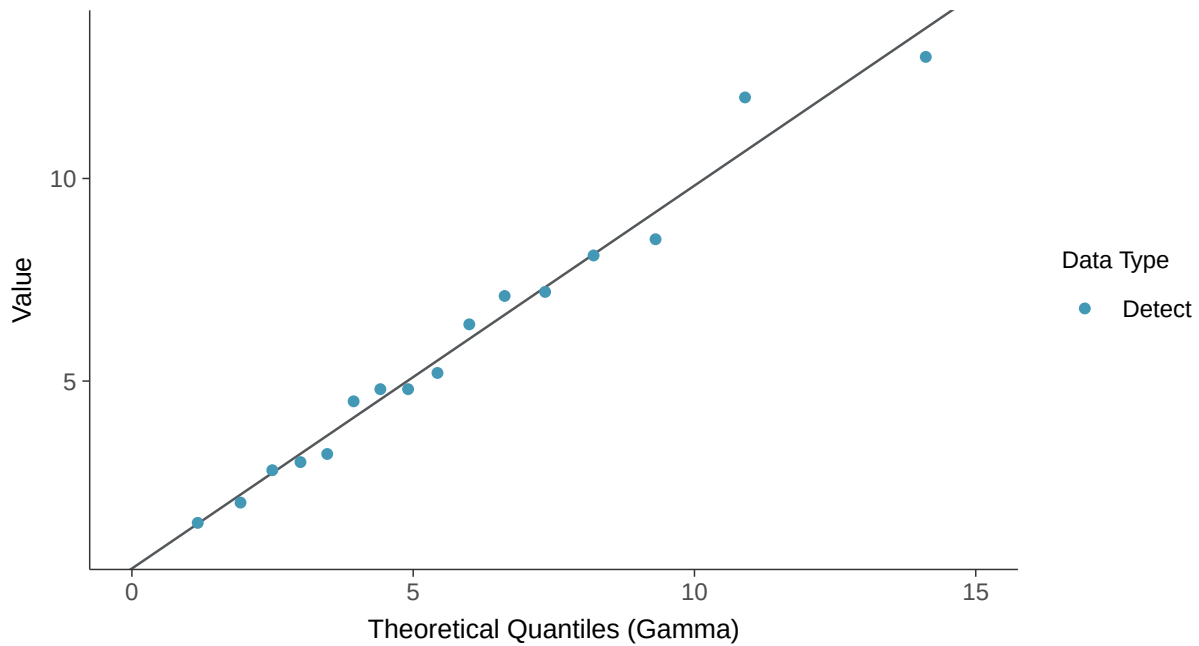


Lognormal Q-Q plot

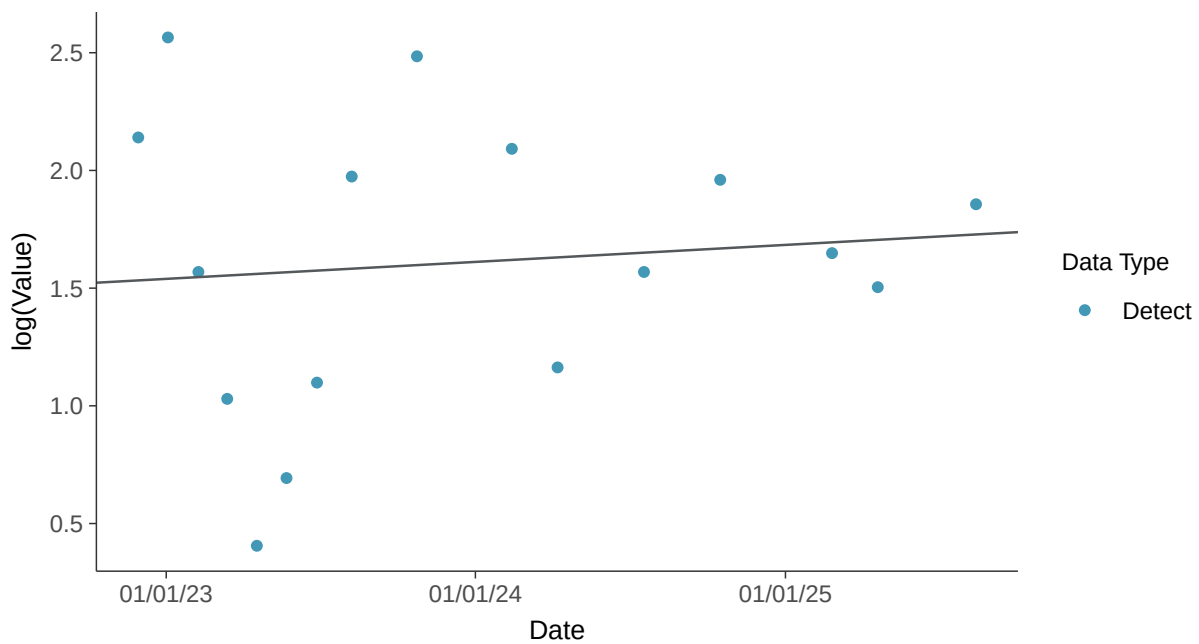
Boron, MW-11 (mg/L)



Gamma Q-Q plot
Boron, MW-11 (mg/L)

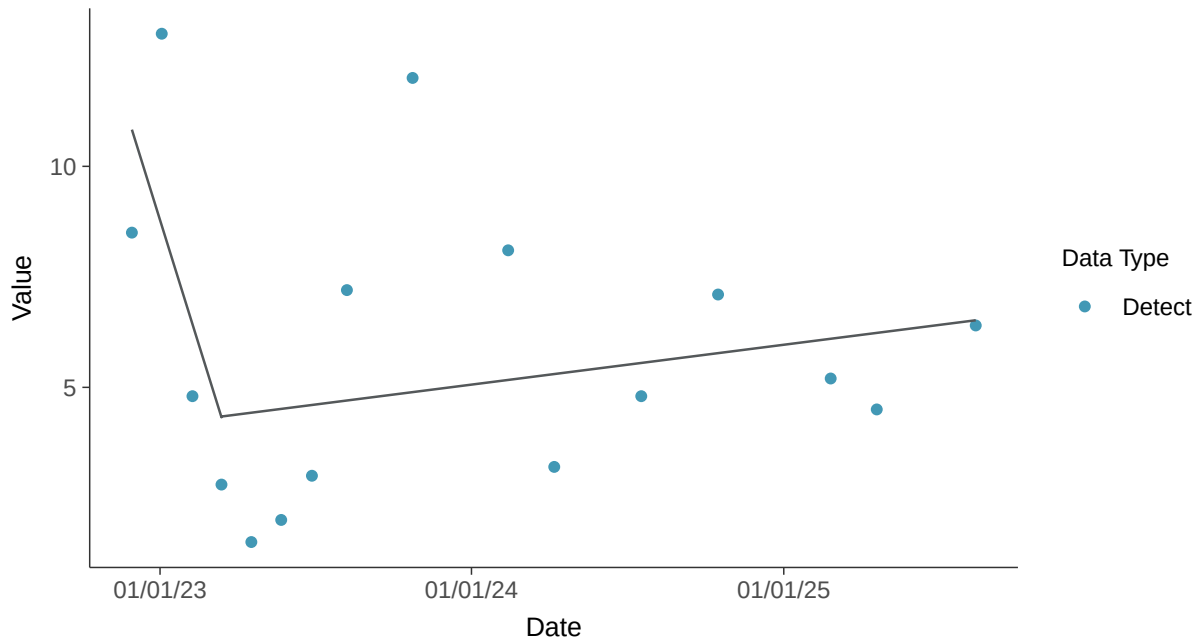


Trend Regression: Lognormal MLE
Boron, MW-11 (mg/L)



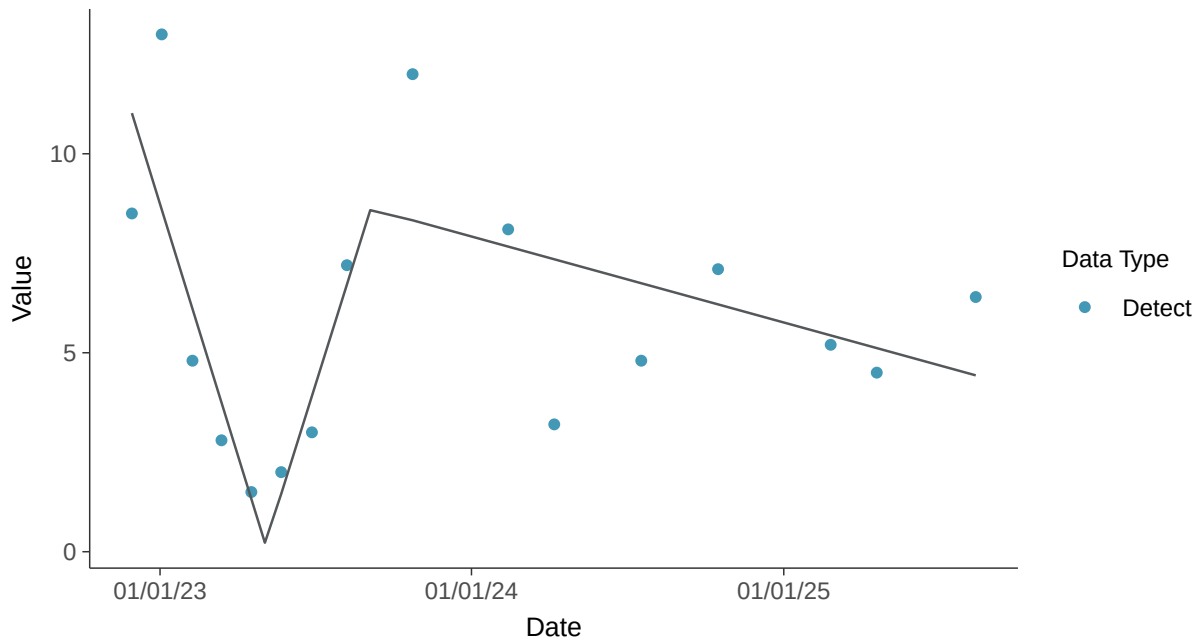
Trend Regression: Piecewise Linear-Linear

Boron, MW-11 (mg/L)



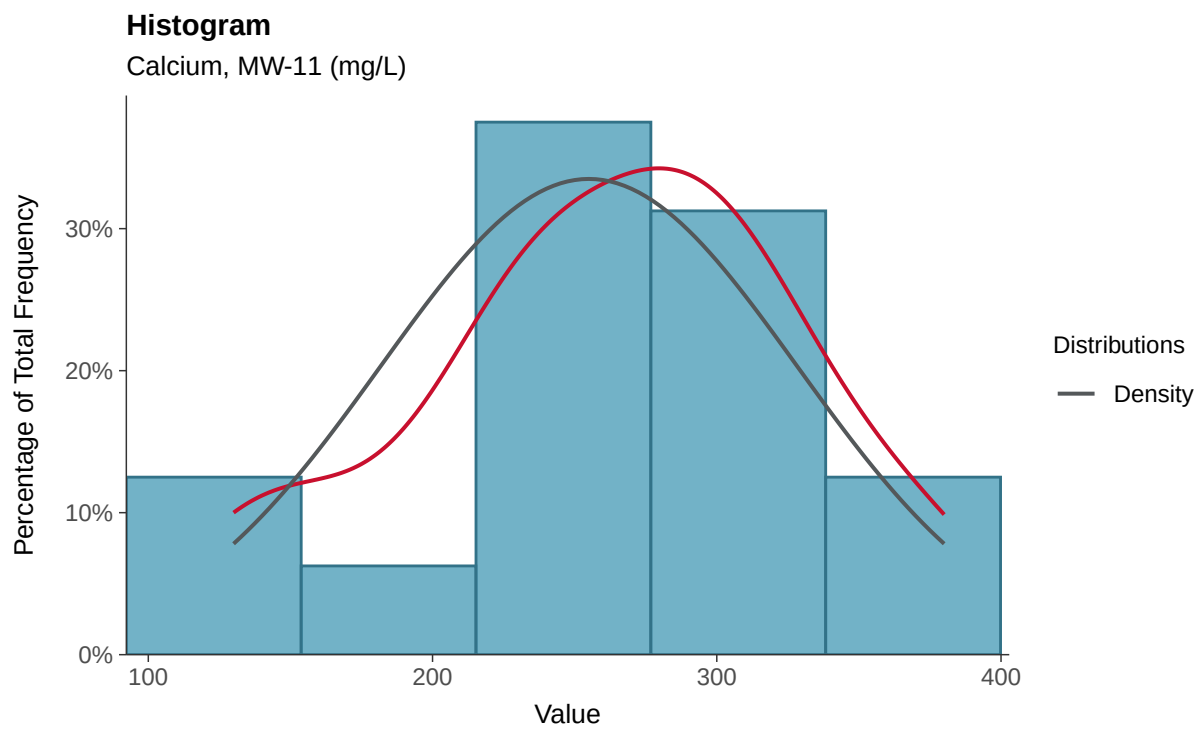
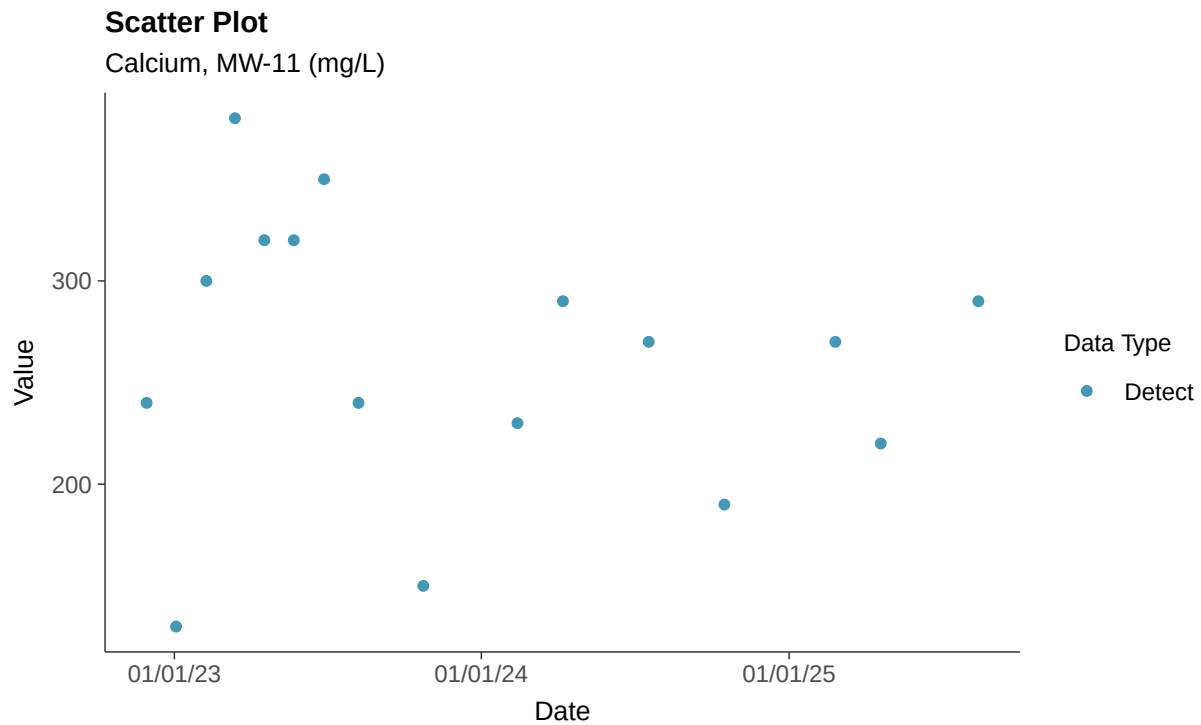
Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-11 (mg/L)



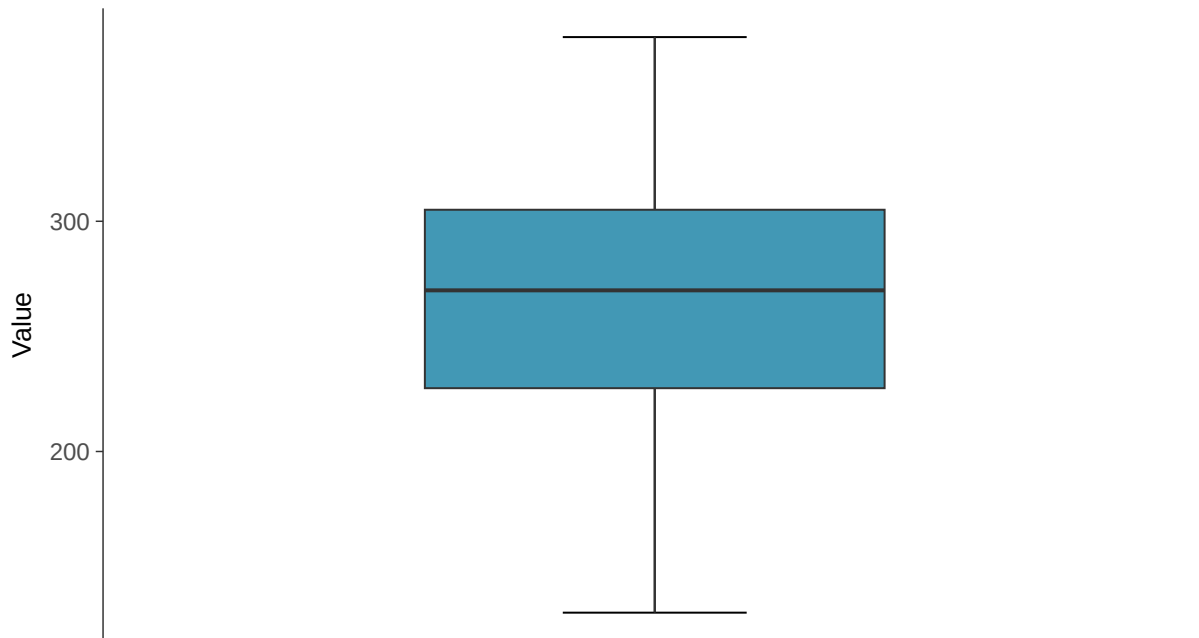
Appendix III: Calcium, MW-11

ID: 21_2_3_107



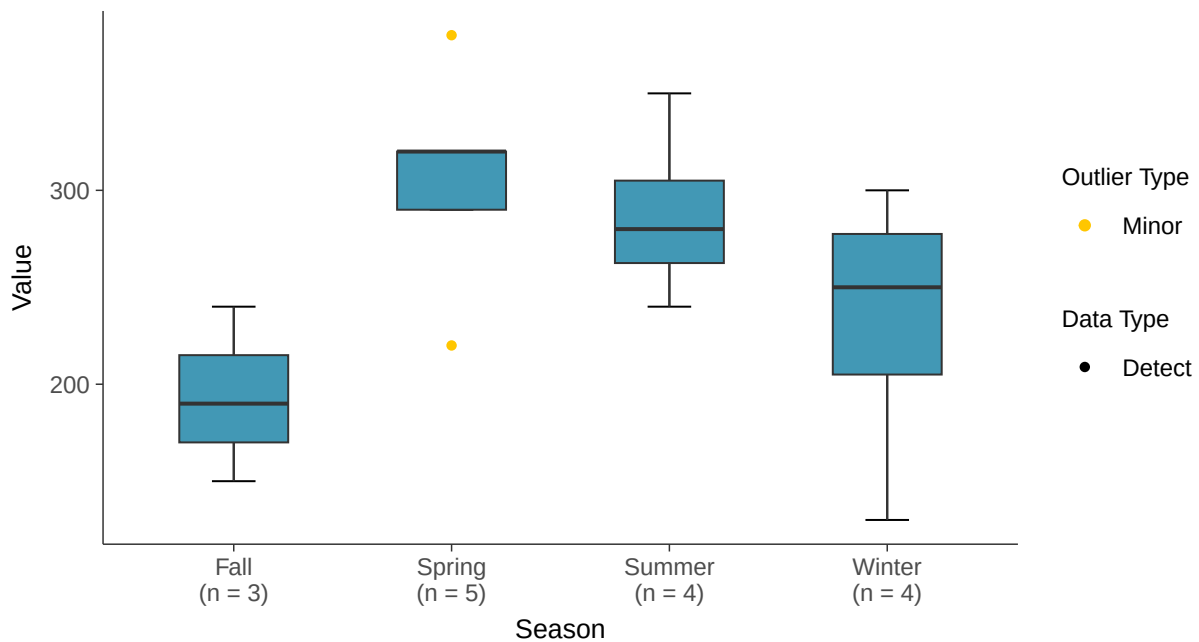
Boxplot

Calcium, MW-11 (mg/L)



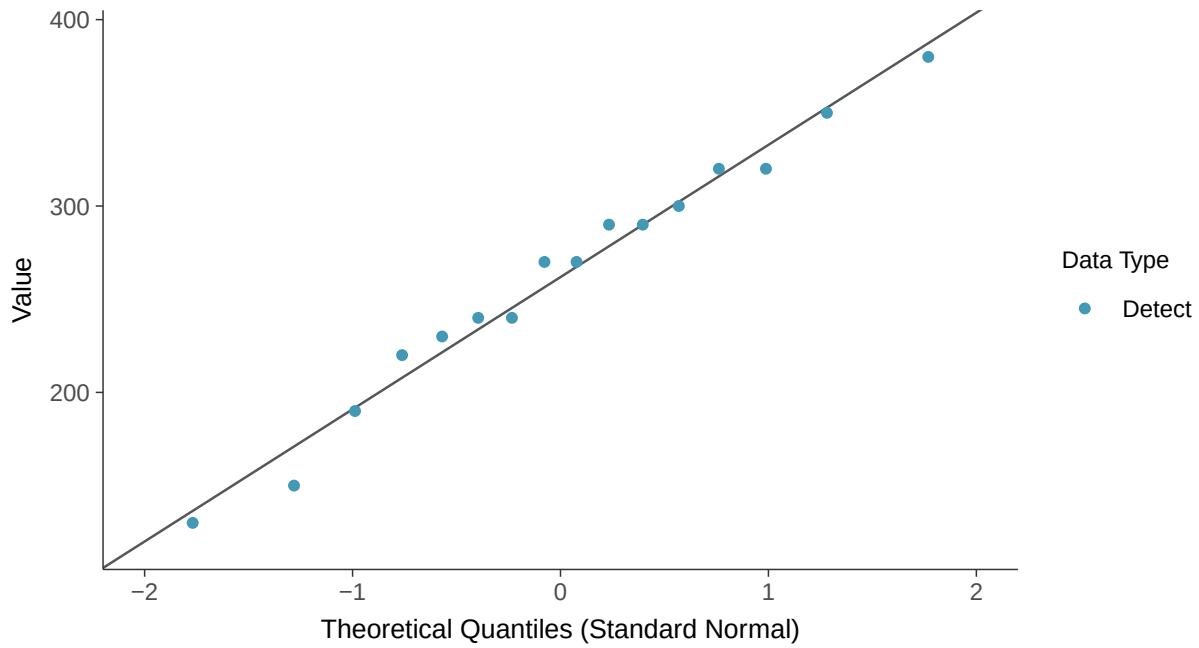
Boxplot by Season

Calcium, MW-11 (mg/L)



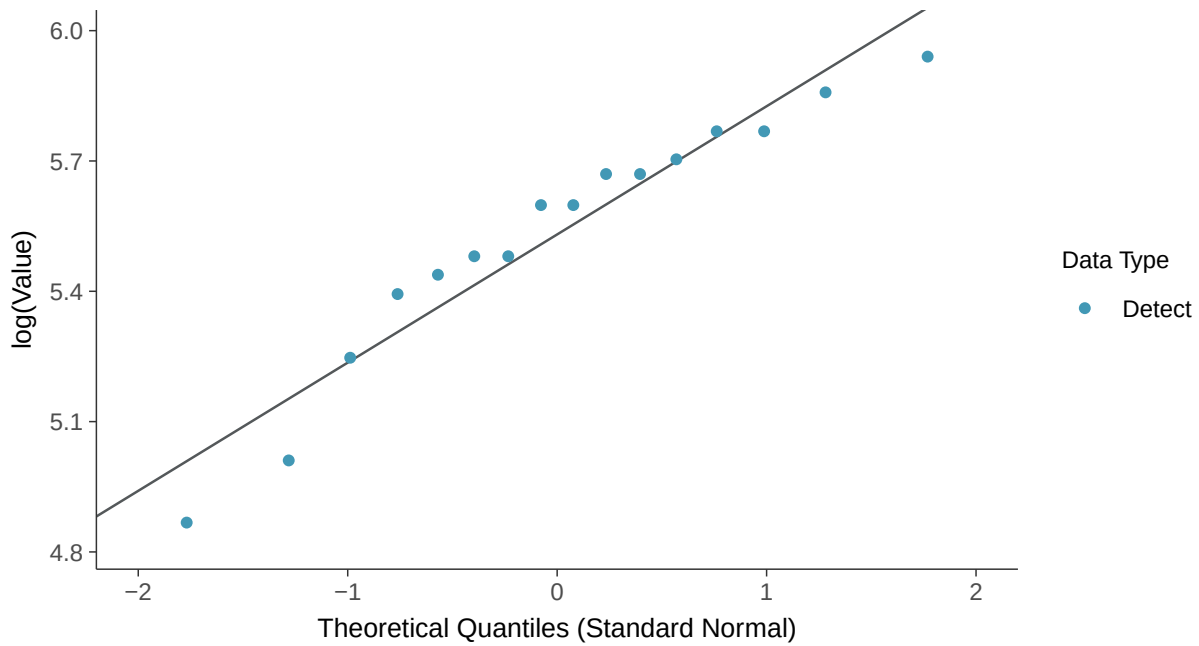
Normal Q-Q plot

Calcium, MW-11 (mg/L)



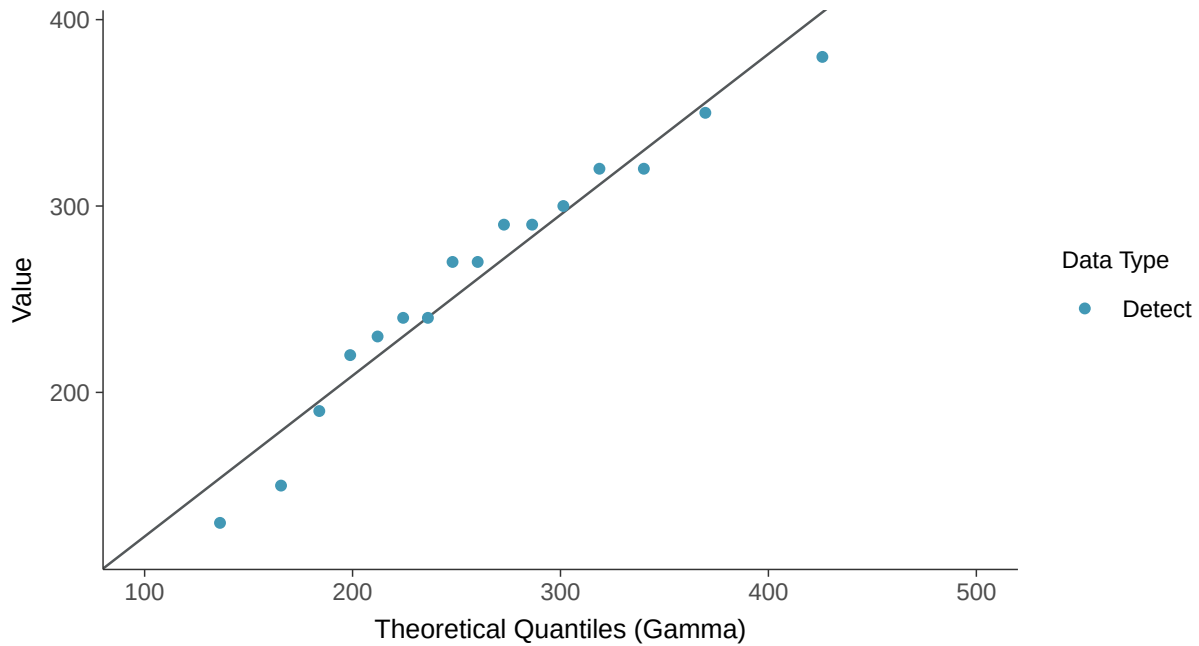
Lognormal Q-Q plot

Calcium, MW-11 (mg/L)



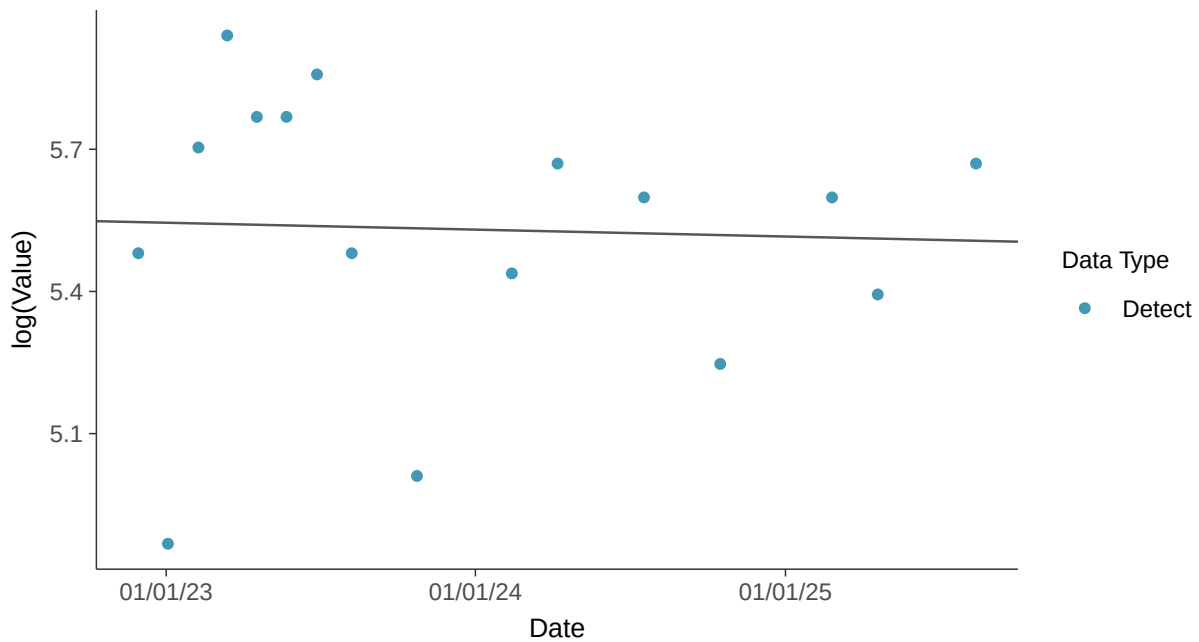
Gamma Q-Q plot

Calcium, MW-11 (mg/L)



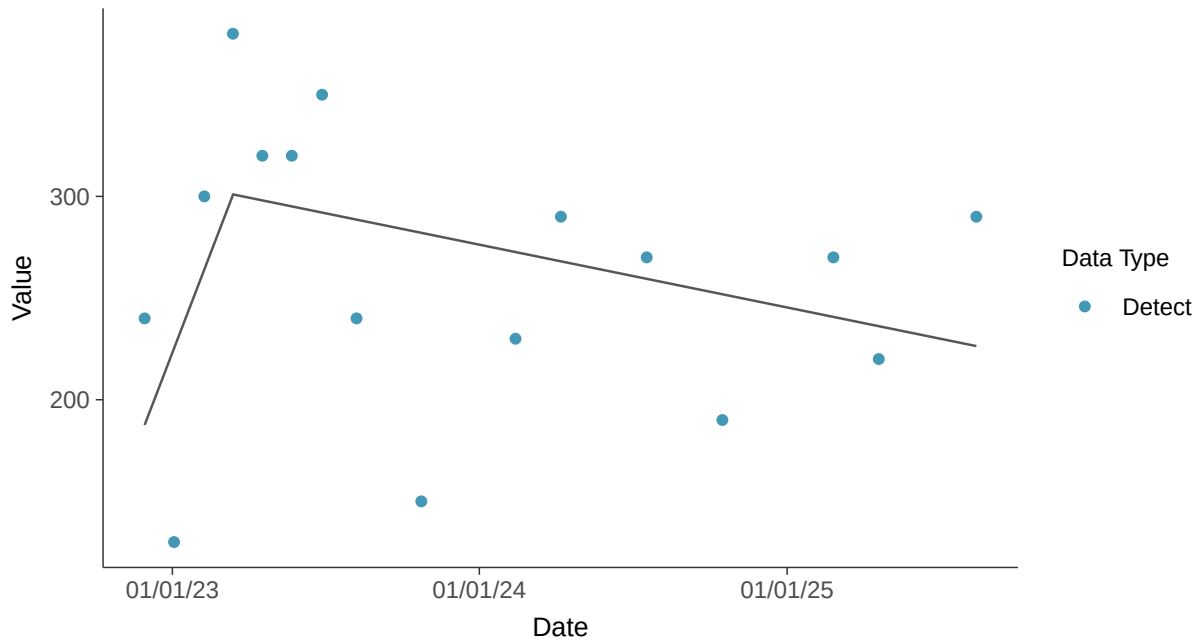
Trend Regression: Lognormal MLE

Calcium, MW-11 (mg/L)



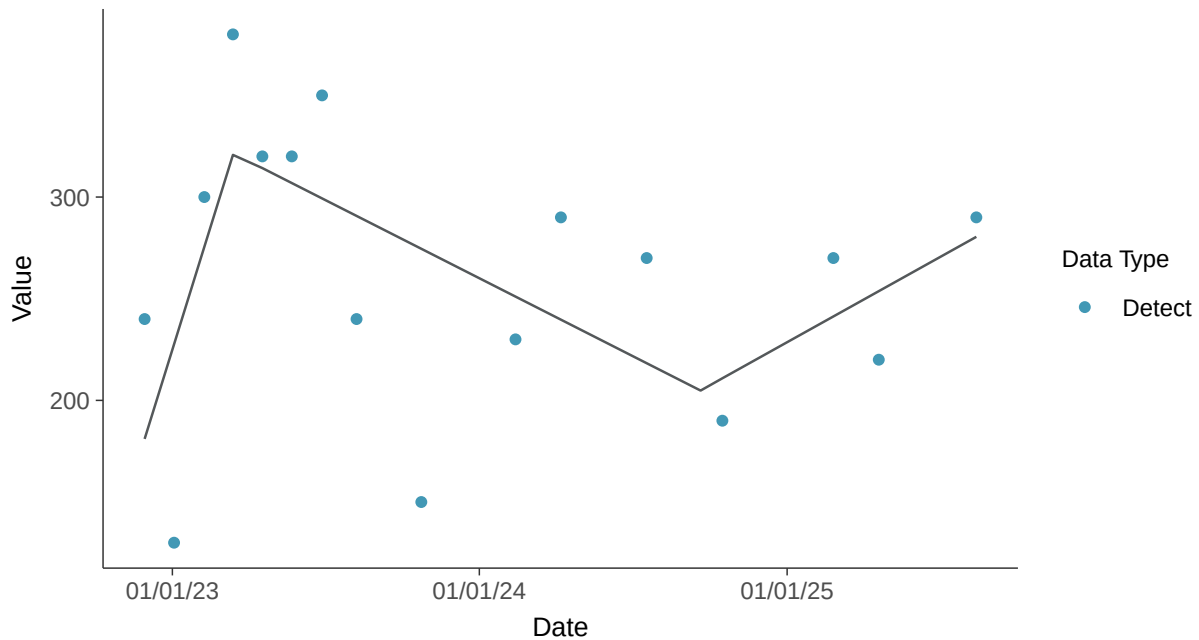
Trend Regression: Piecewise Linear-Linear

Calcium, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-11 (mg/L)

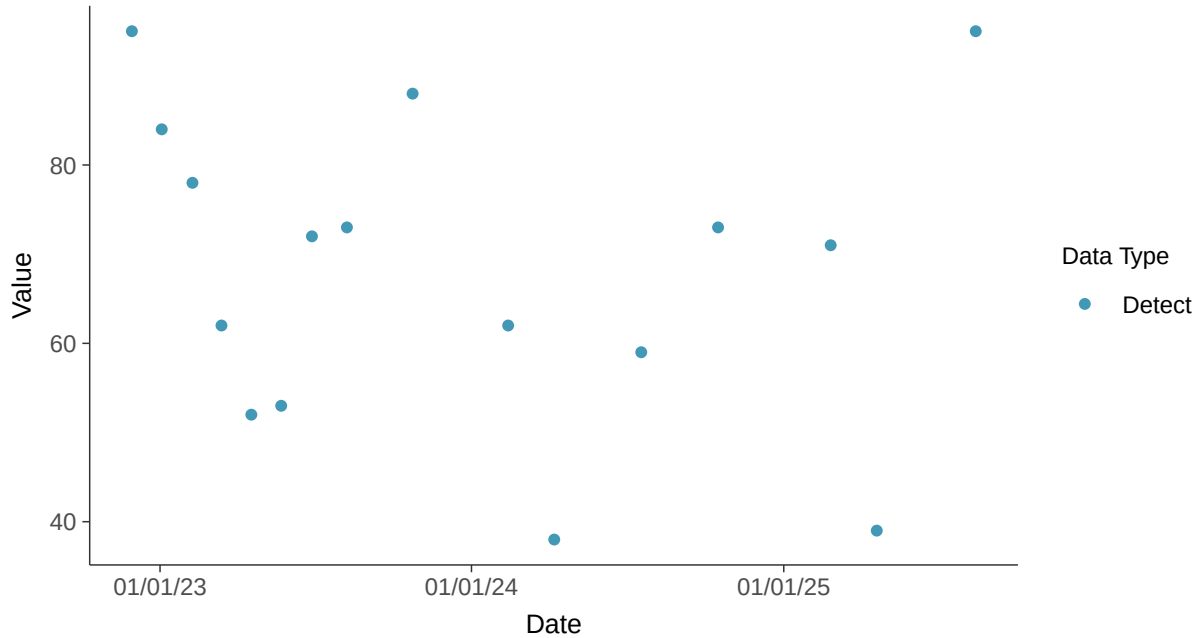


Appendix III: Chloride (as Cl), MW-11

ID: 21_2_3_108

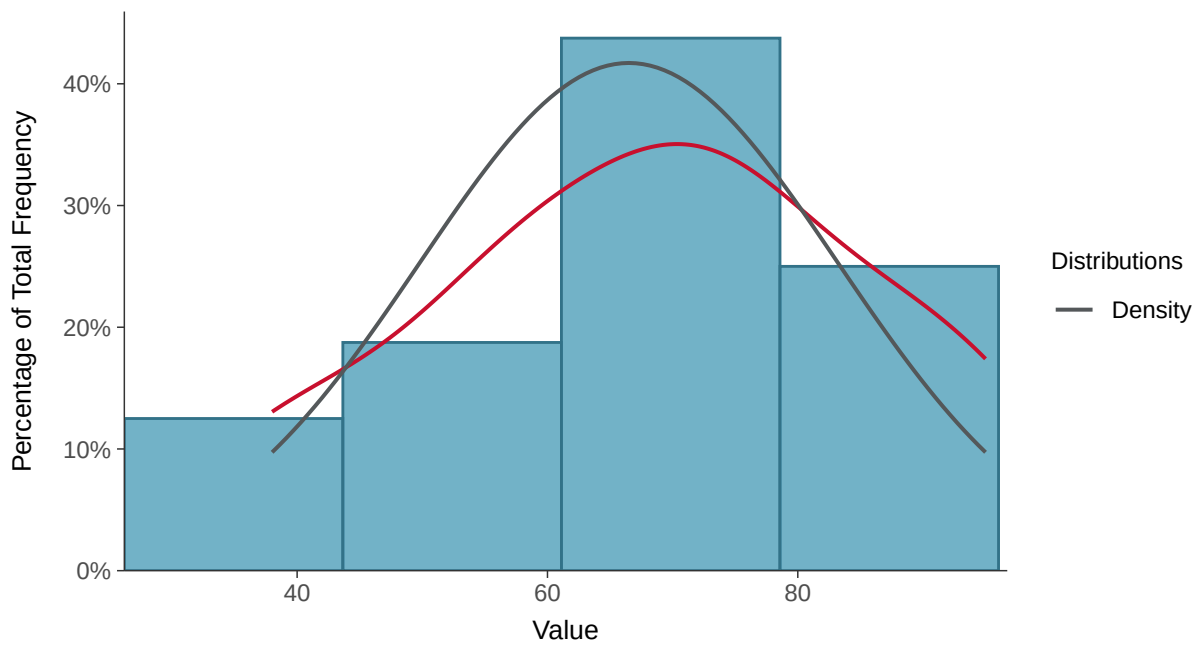
Scatter Plot

Chloride (as Cl), MW-11 (mg/L)



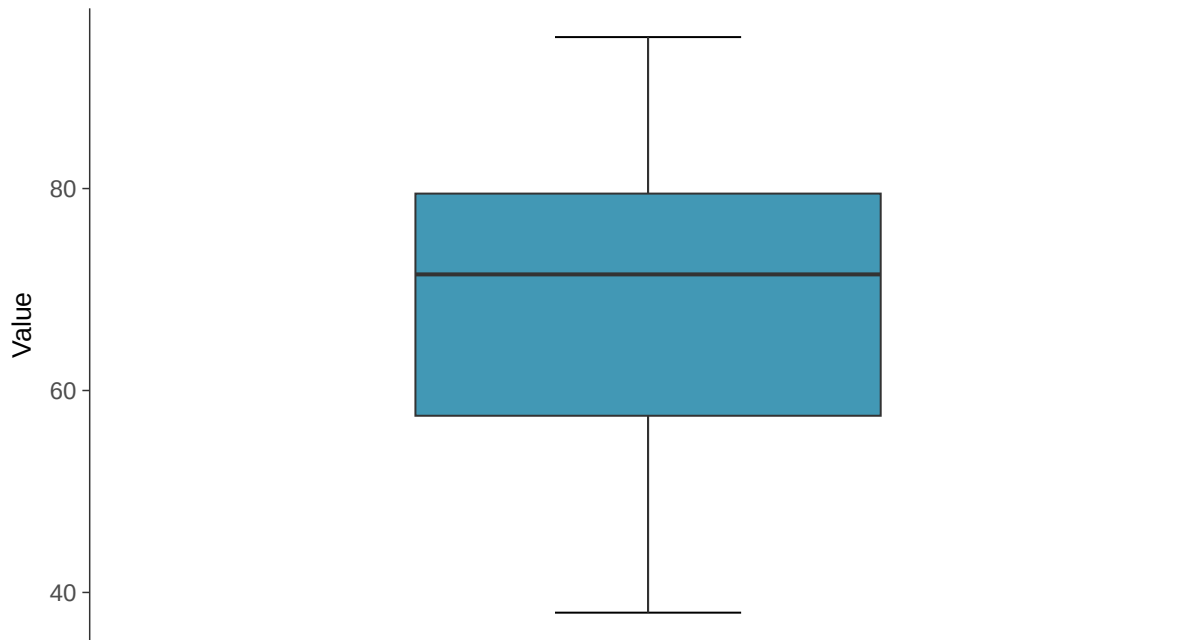
Histogram

Chloride (as Cl), MW-11 (mg/L)



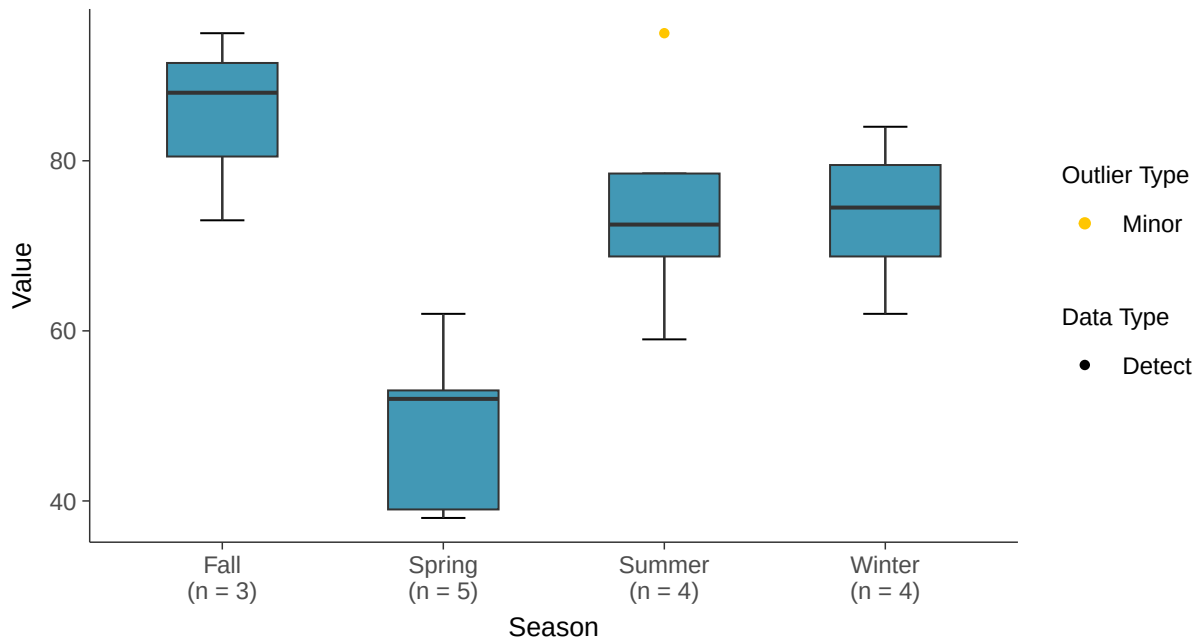
Boxplot

Chloride (as Cl), MW-11 (mg/L)



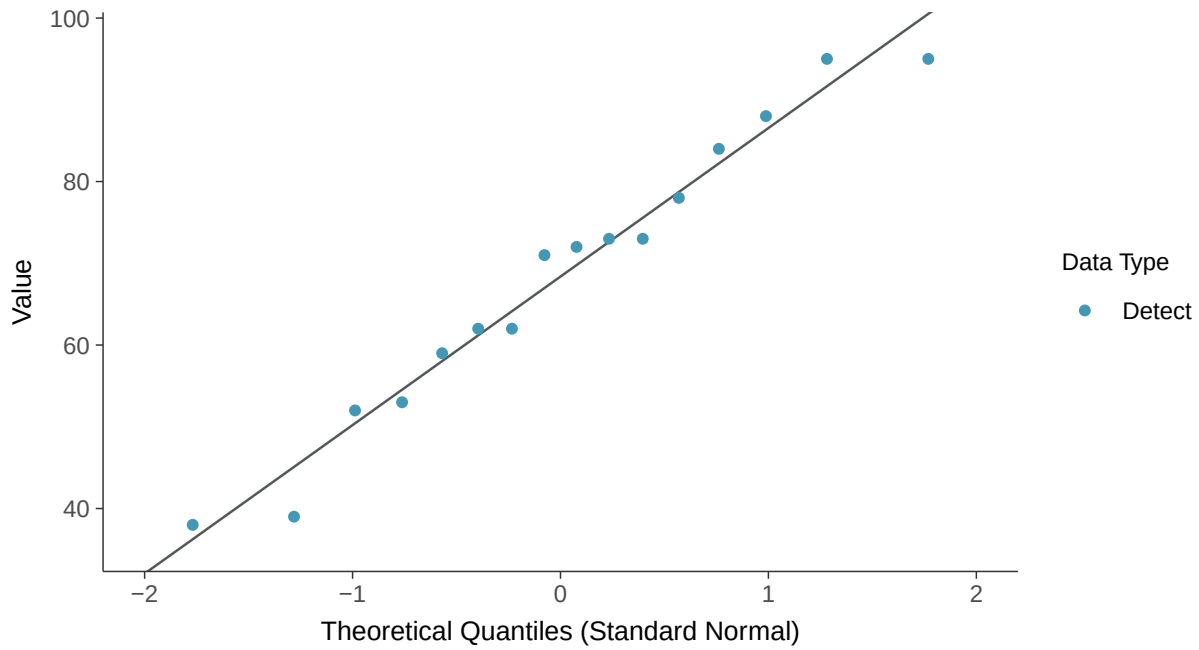
Boxplot by Season

Chloride (as Cl), MW-11 (mg/L)



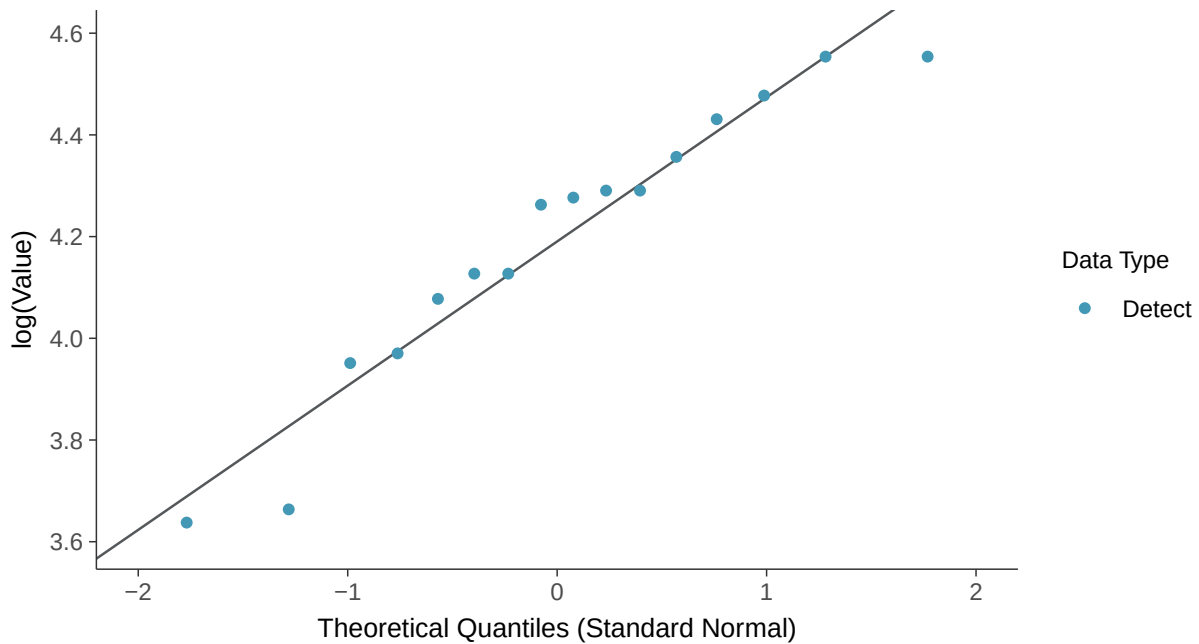
Normal Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



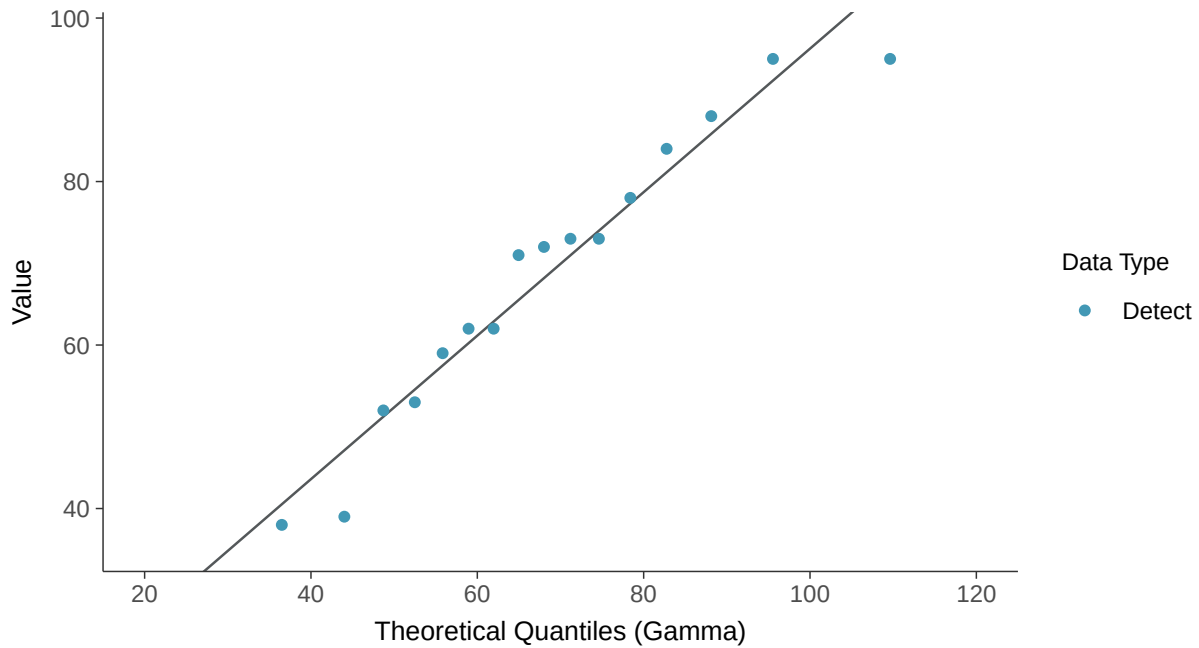
Lognormal Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



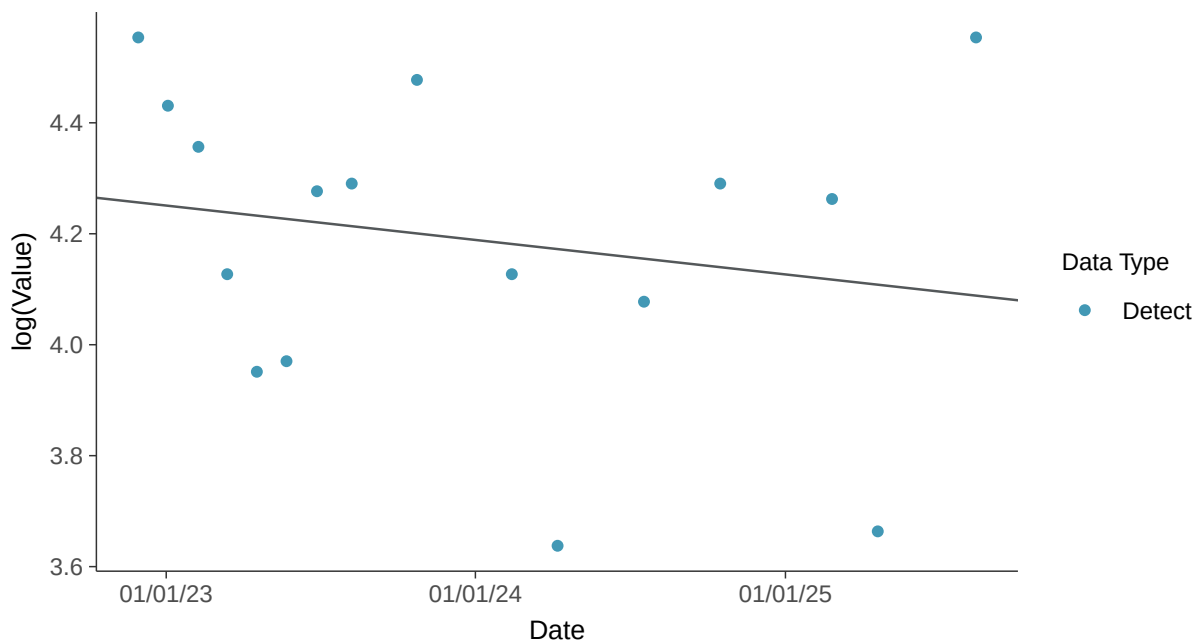
Gamma Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



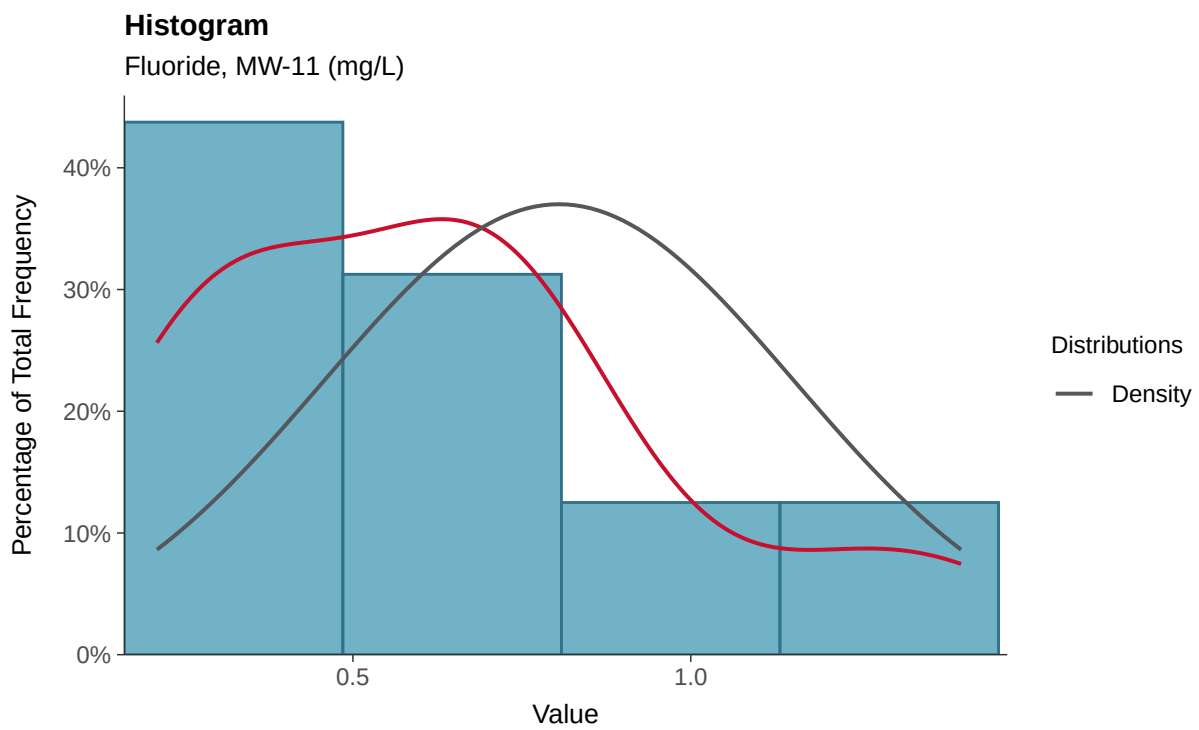
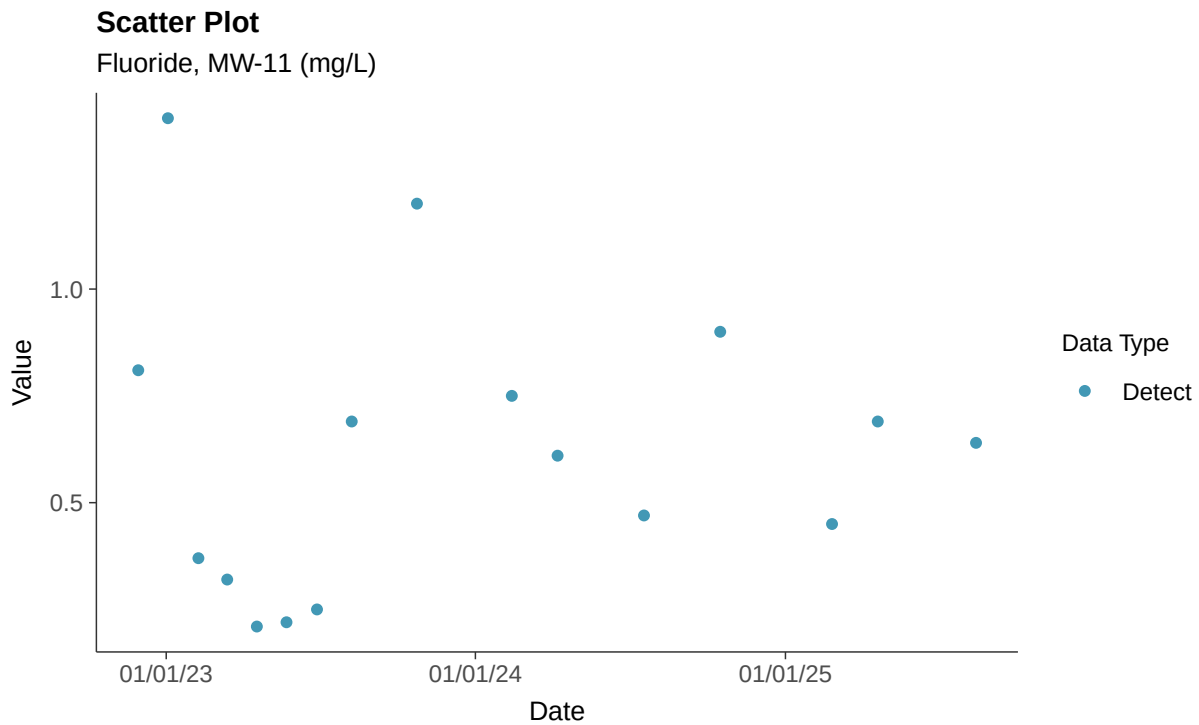
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-11 (mg/L)



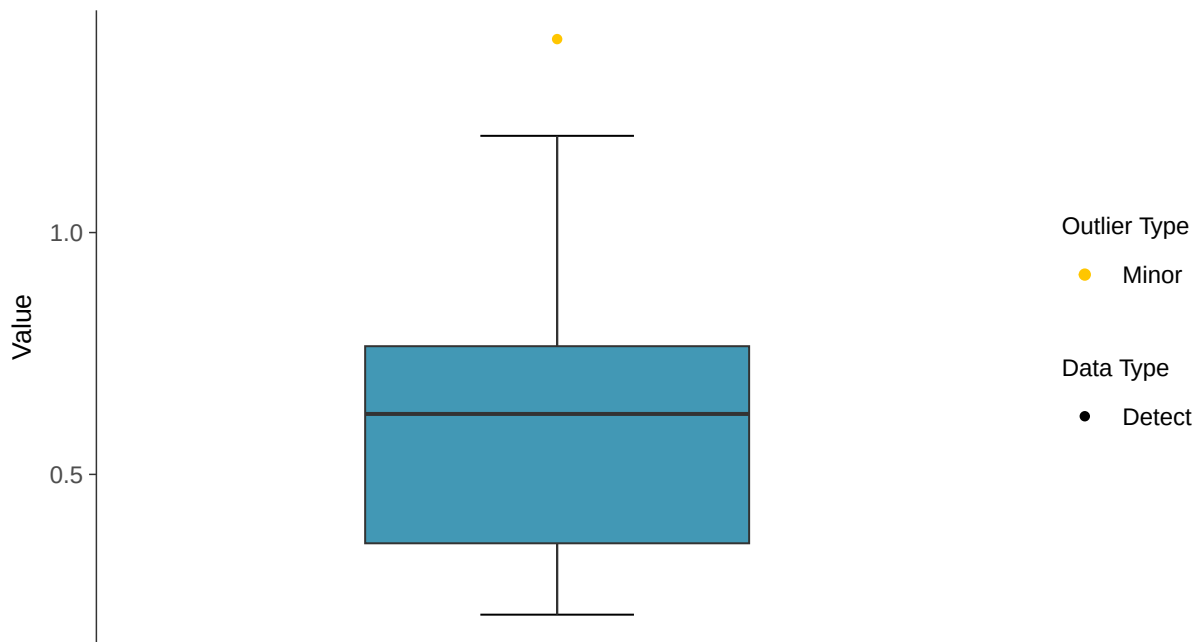
Appendix III: Fluoride, MW-11

ID: 21_2_3_112



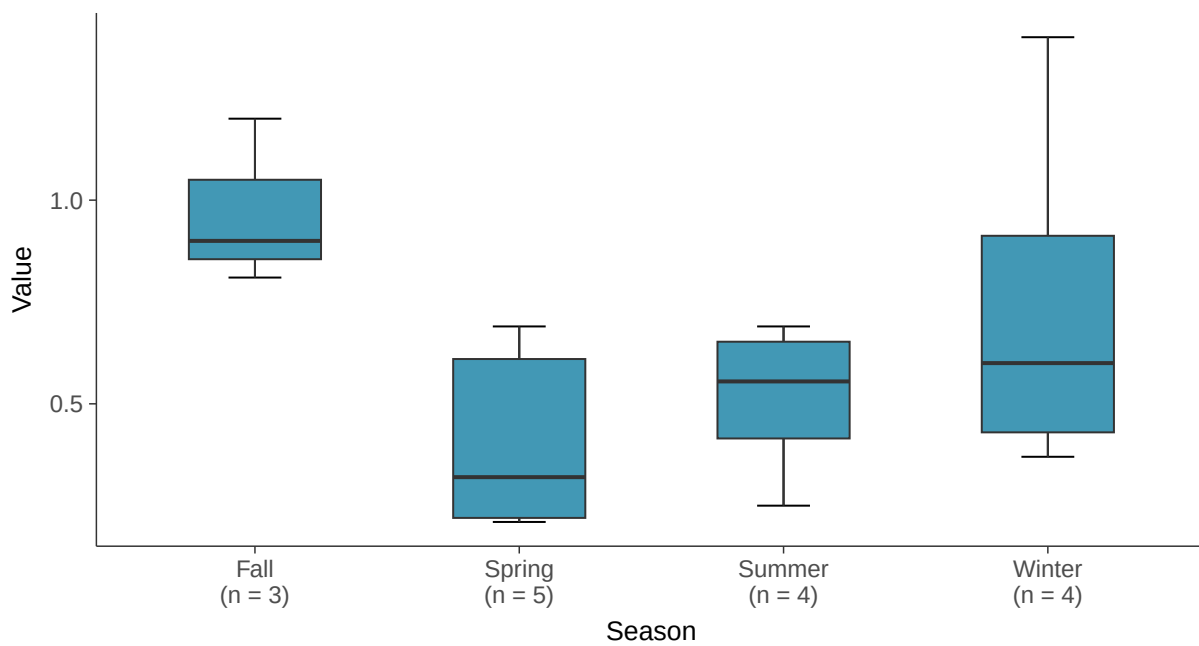
Boxplot

Fluoride, MW-11 (mg/L)



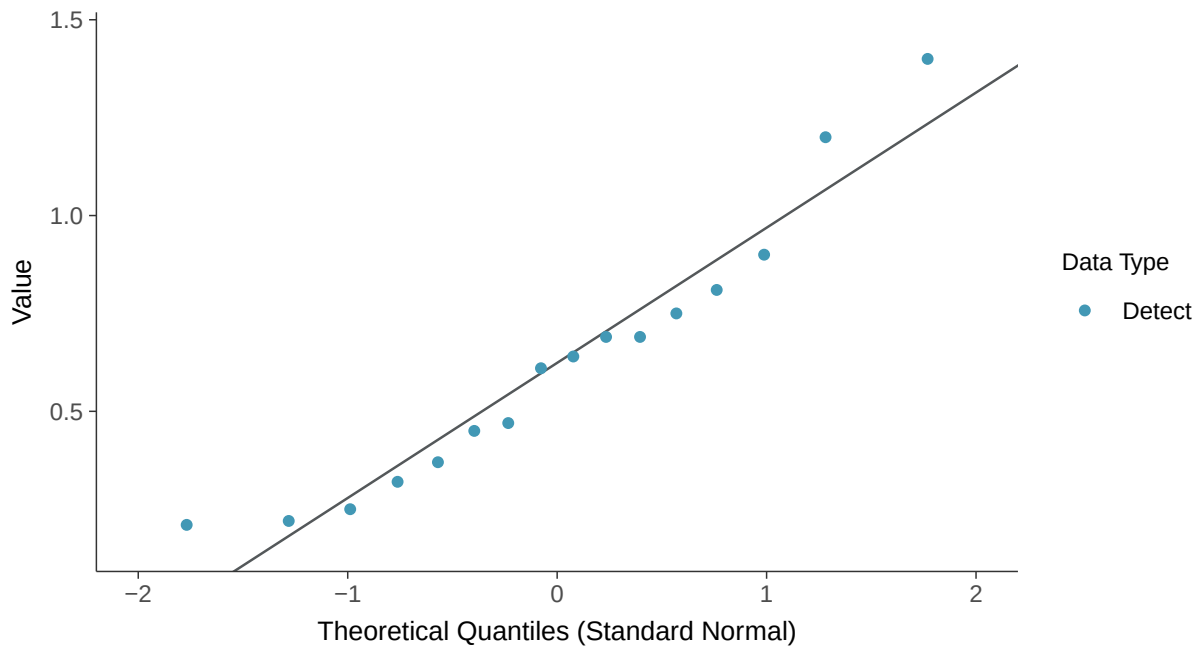
Boxplot by Season

Fluoride, MW-11 (mg/L)



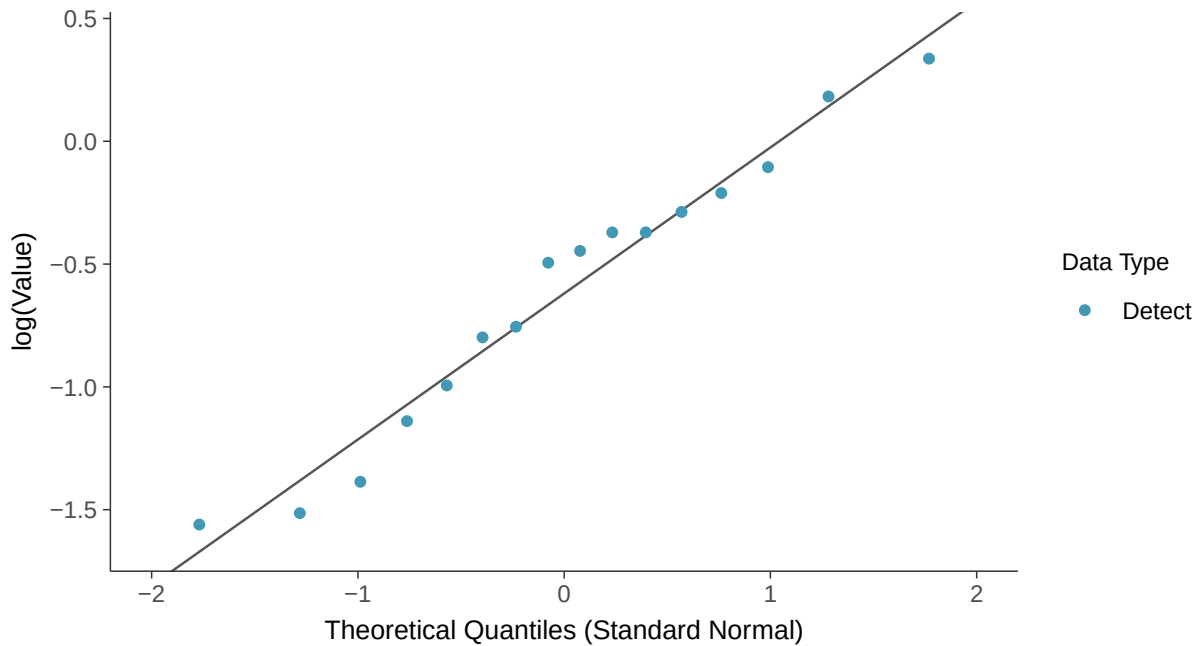
Normal Q-Q plot

Fluoride, MW-11 (mg/L)



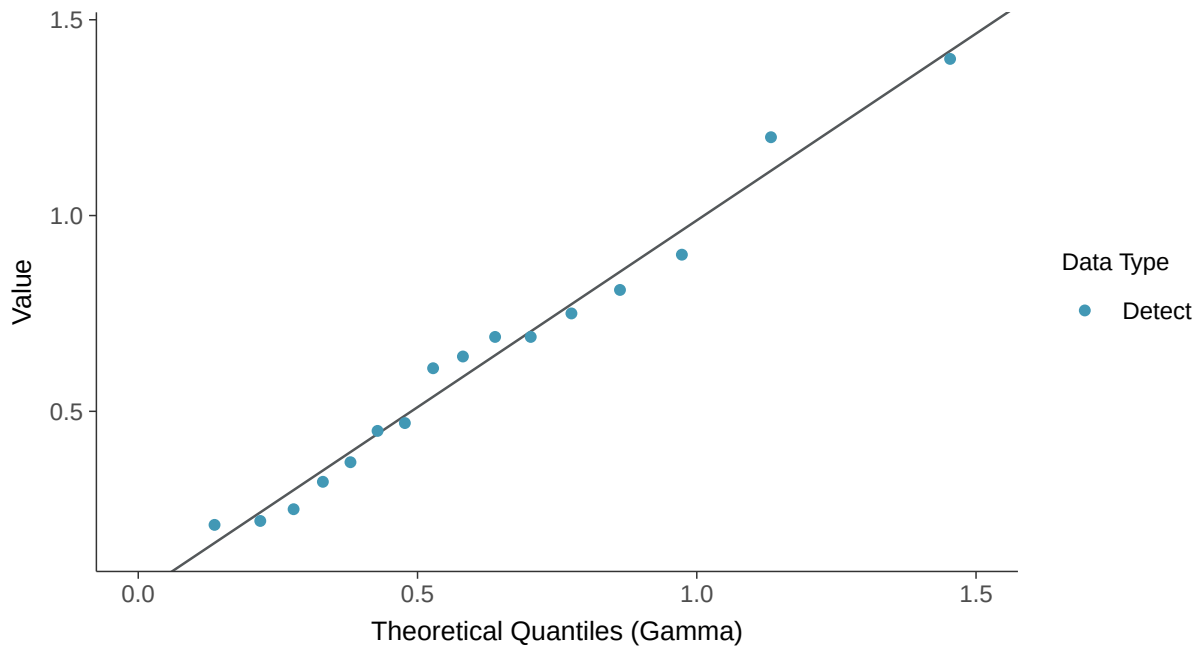
Lognormal Q-Q plot

Fluoride, MW-11 (mg/L)



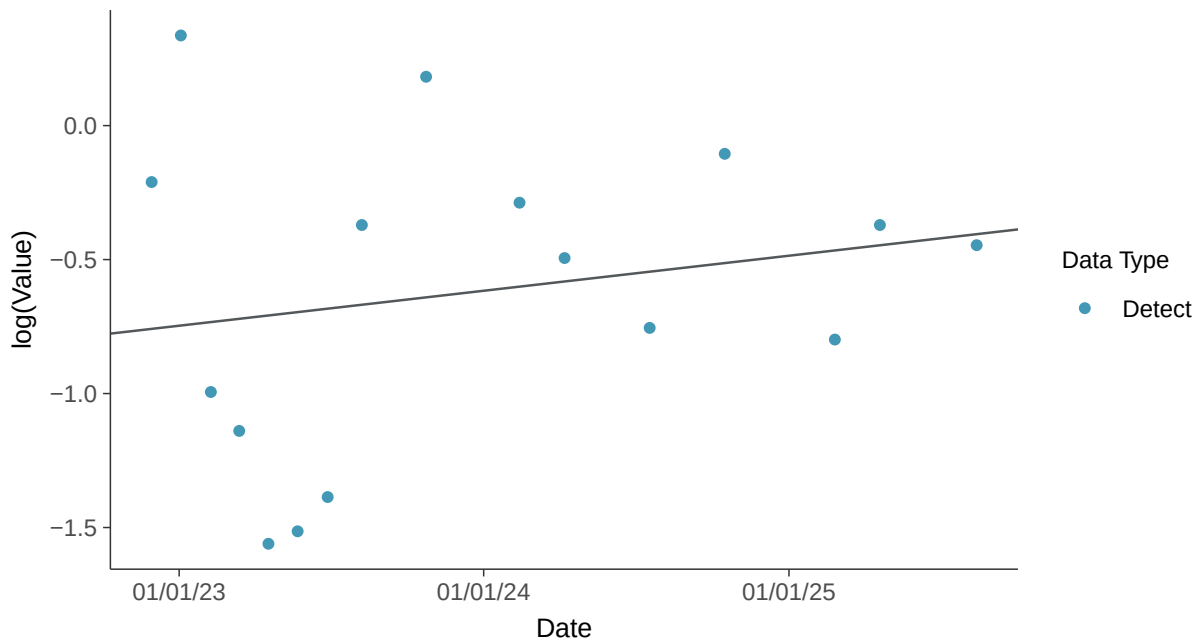
Gamma Q-Q plot

Fluoride, MW-11 (mg/L)



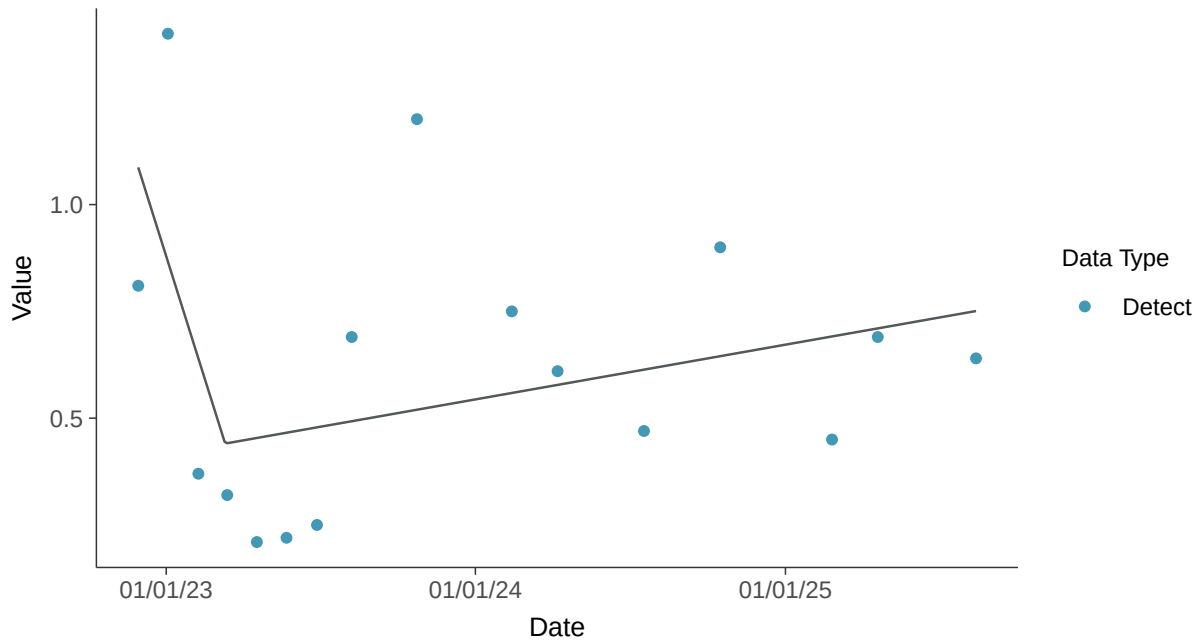
Trend Regression: Lognormal MLE

Fluoride, MW-11 (mg/L)



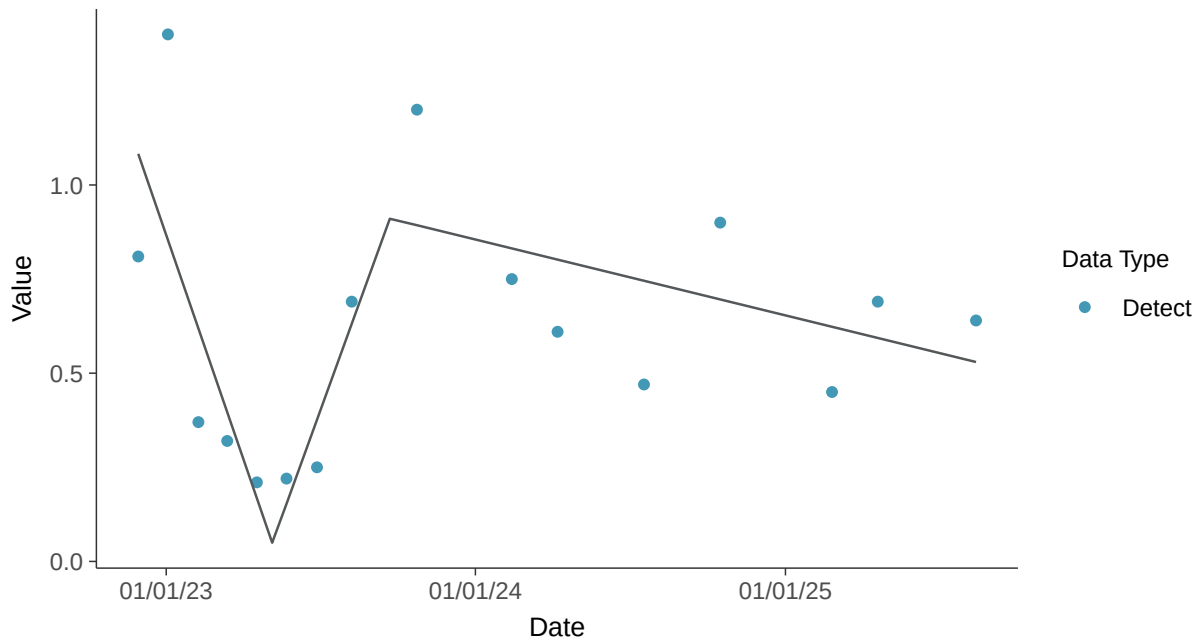
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-11 (mg/L)



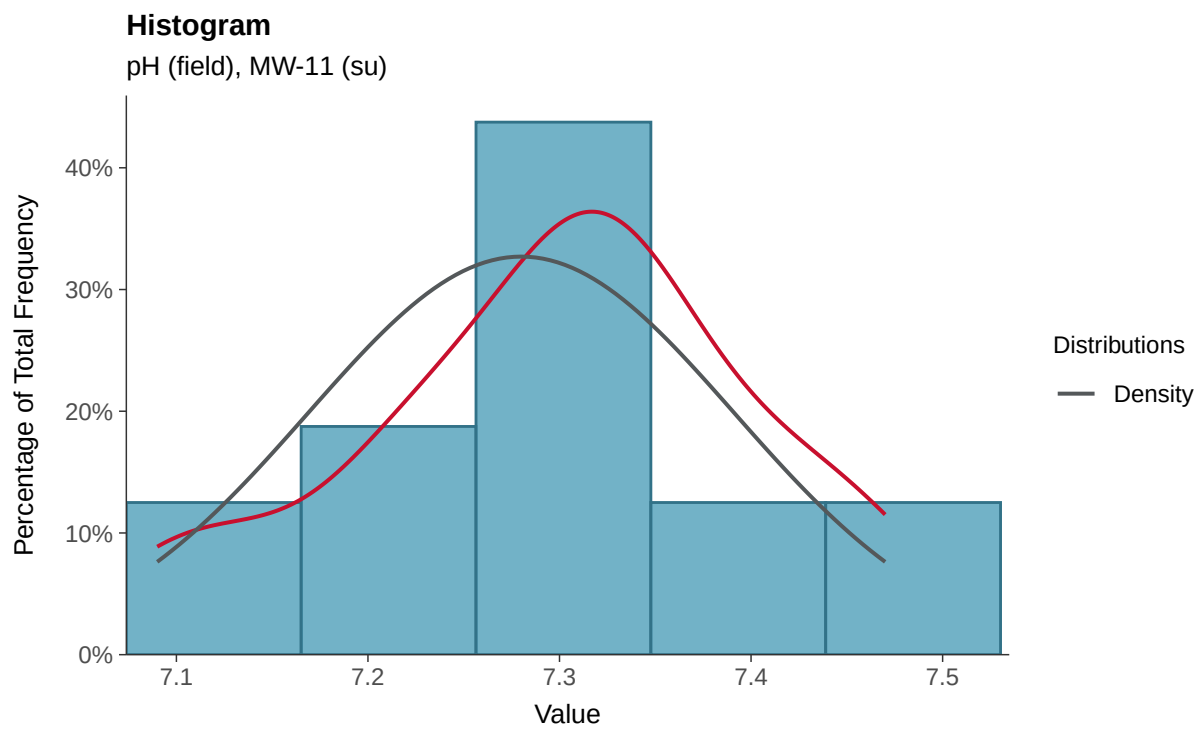
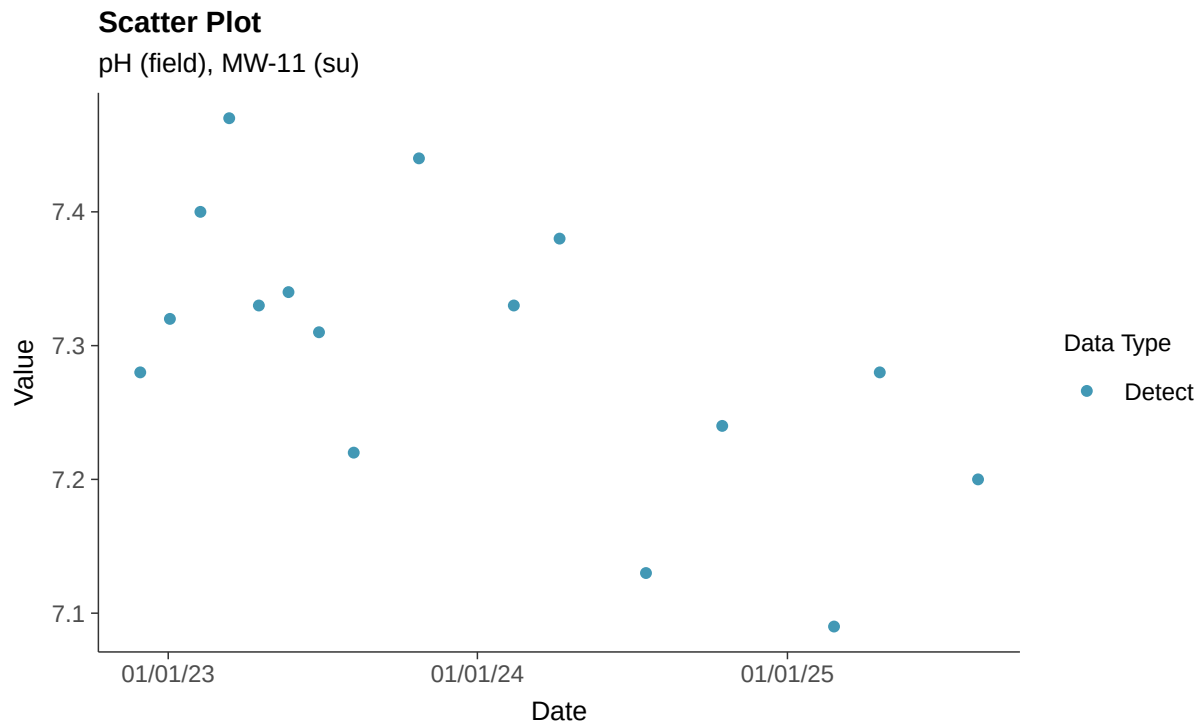
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-11 (mg/L)



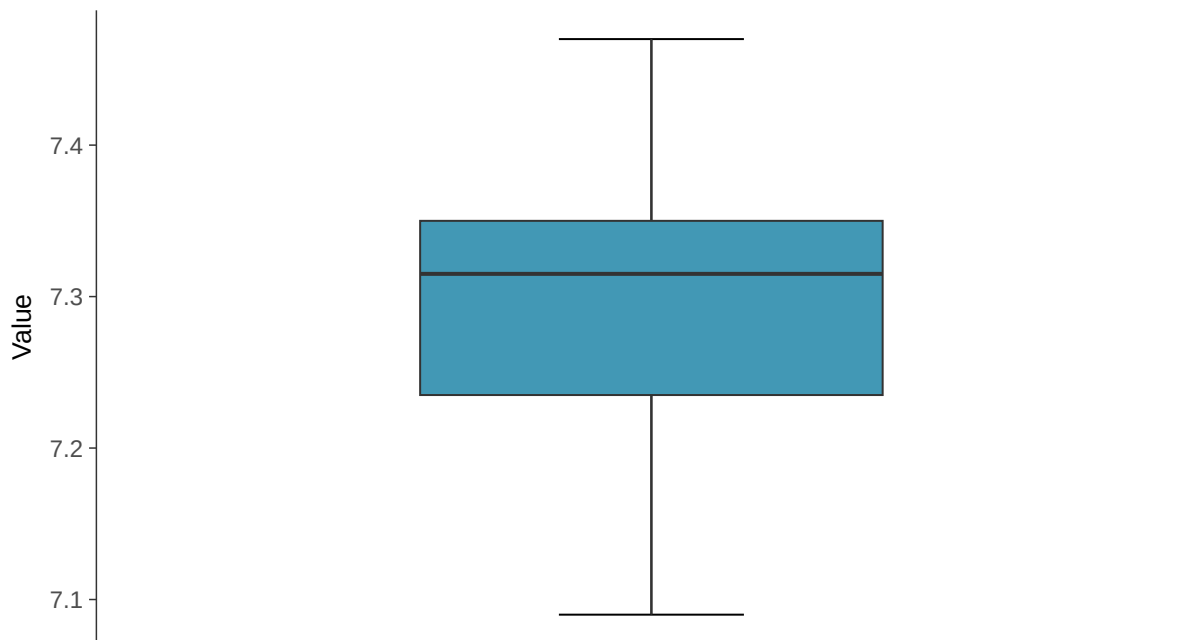
Appendix III: pH (field), MW-11

ID: 21_2_3_120



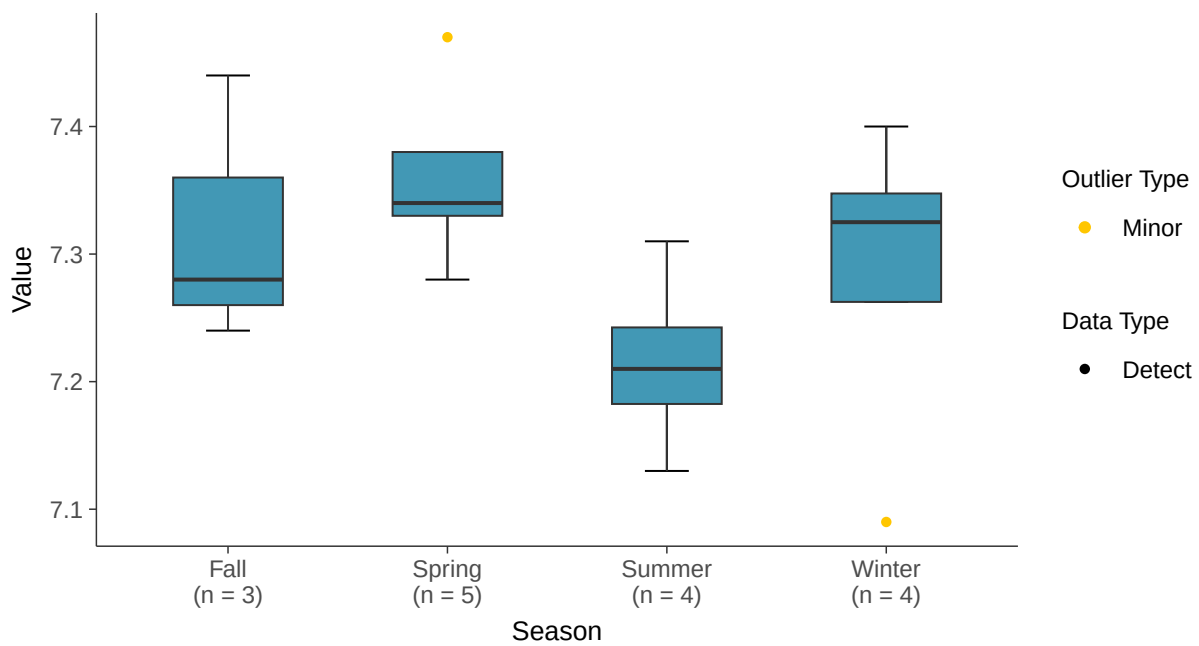
Boxplot

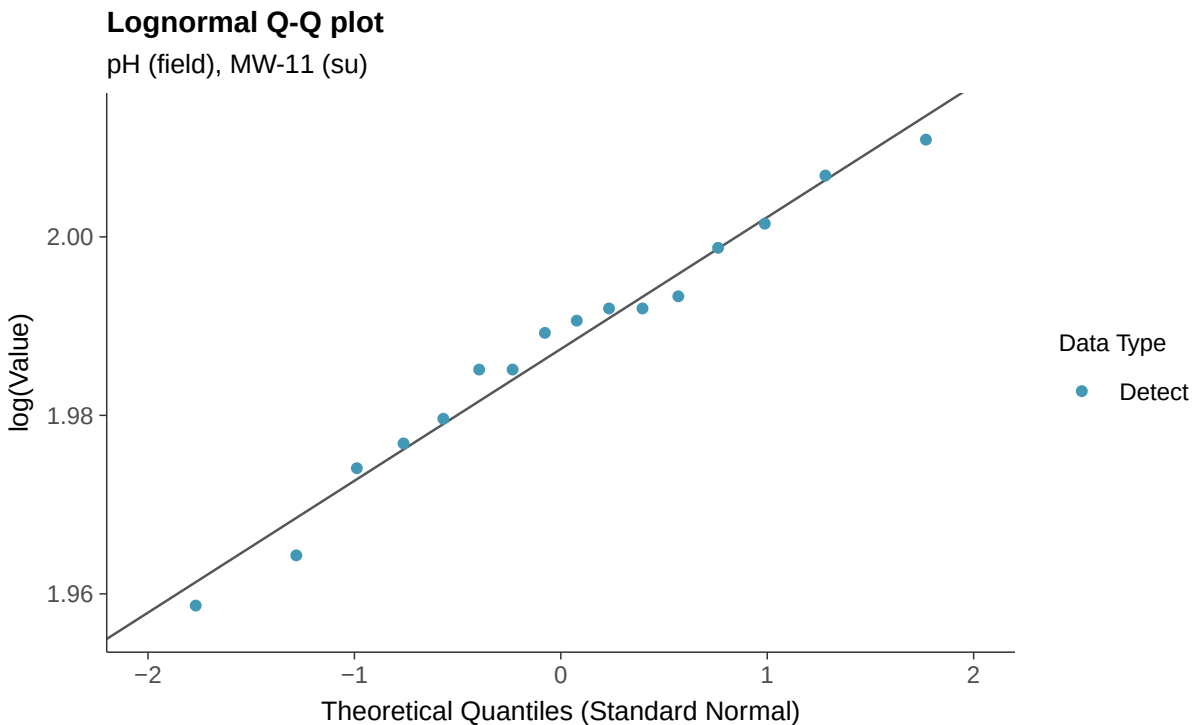
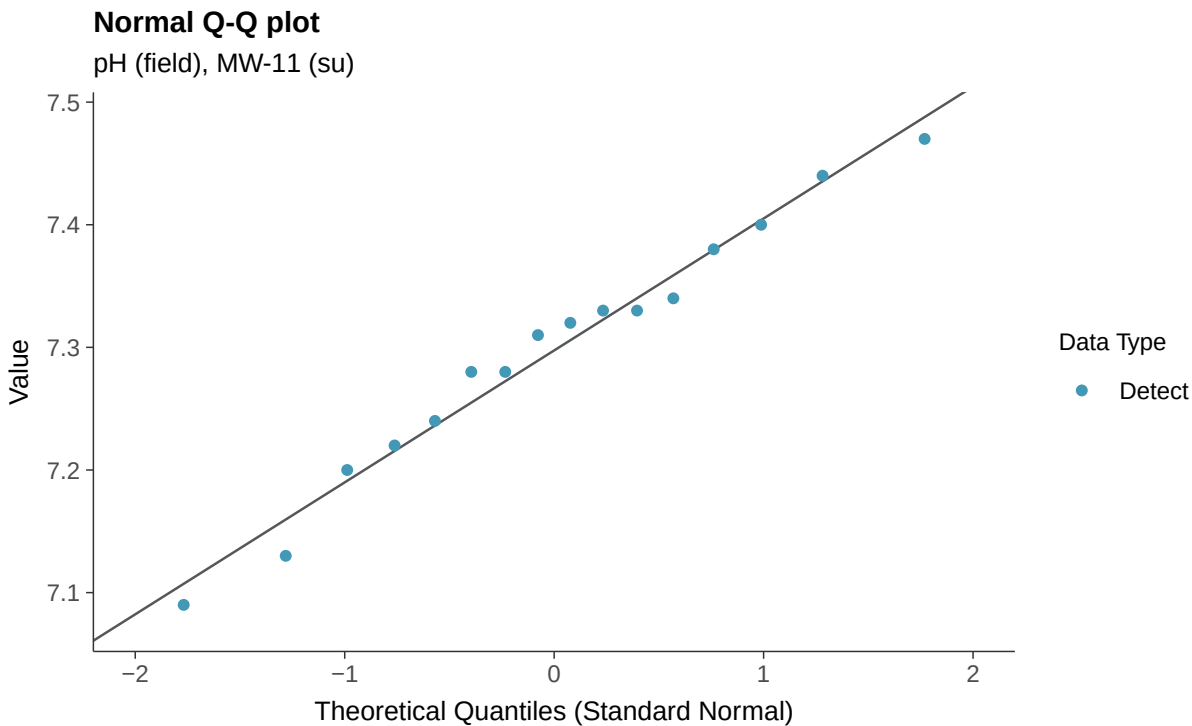
pH (field), MW-11 (su)



Boxplot by Season

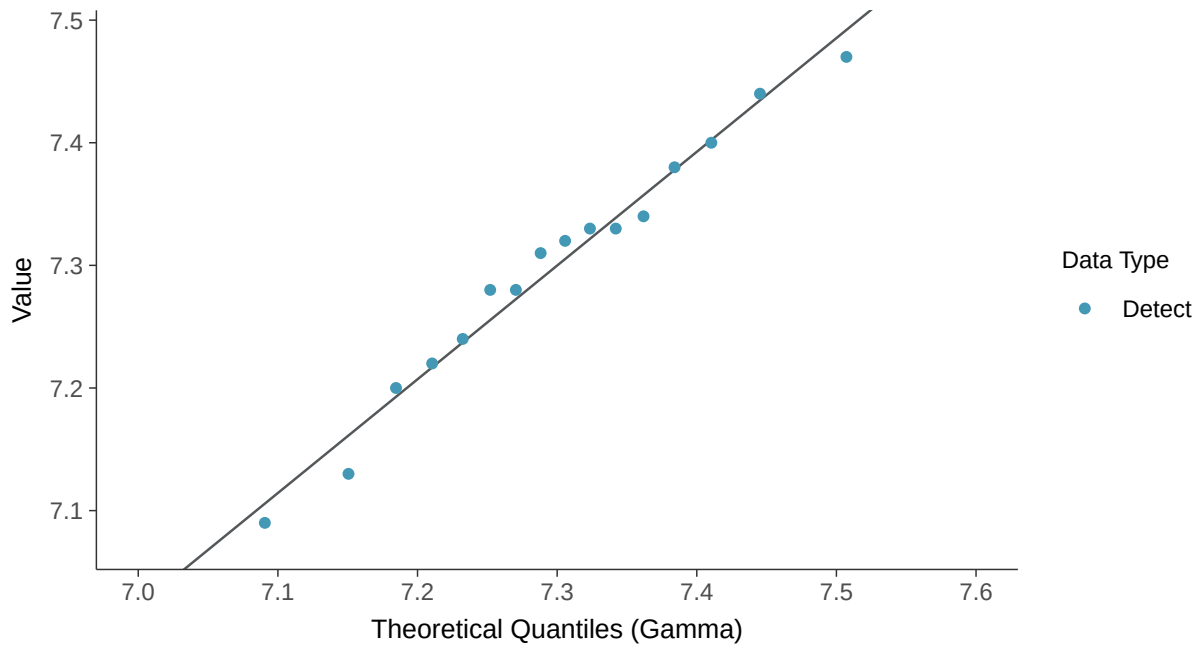
pH (field), MW-11 (su)





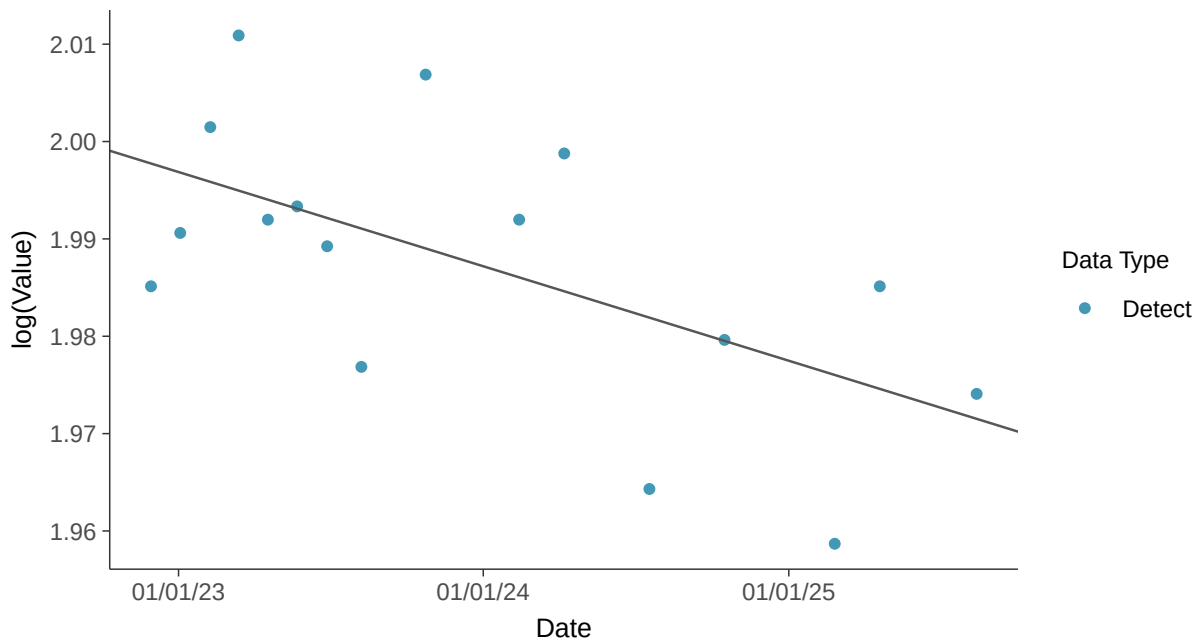
Gamma Q-Q plot

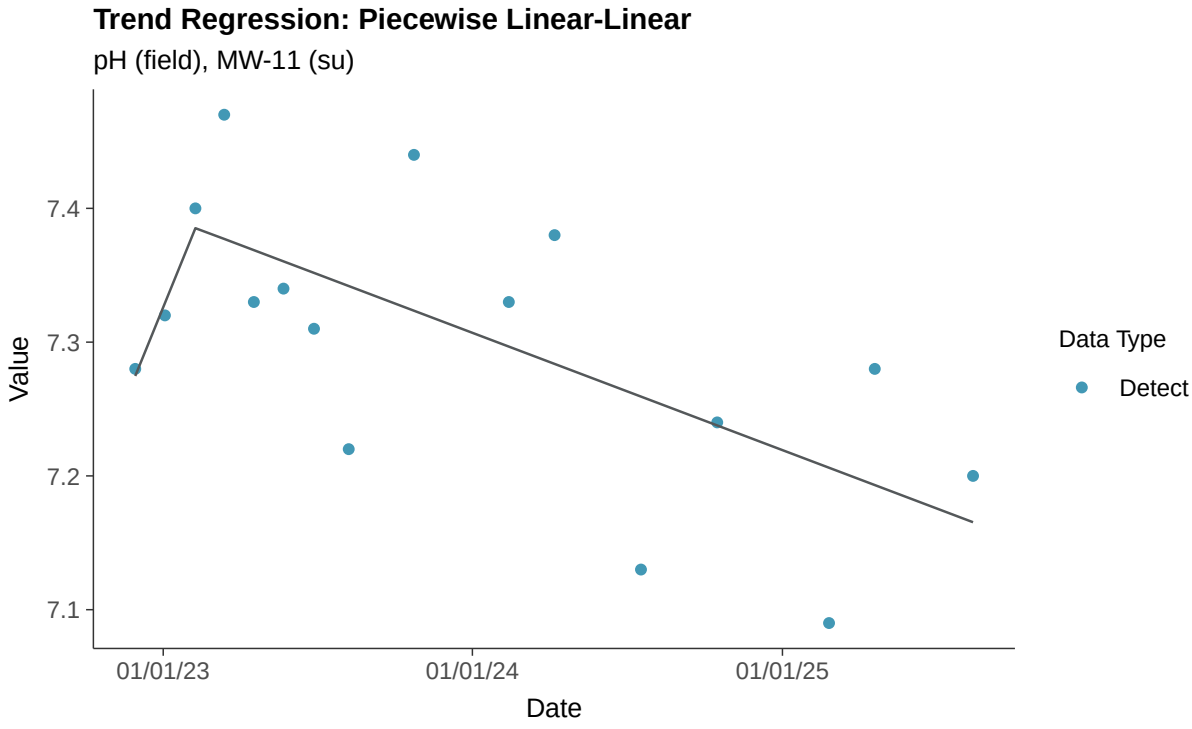
pH (field), MW-11 (su)

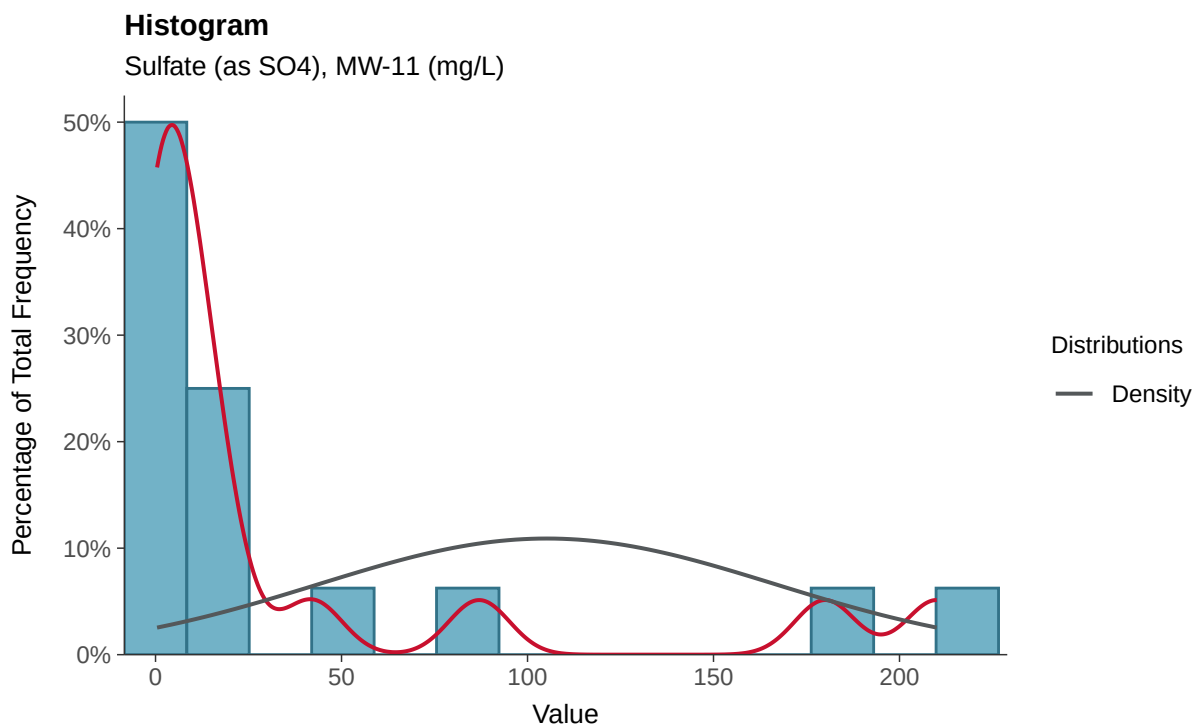


Trend Regression: Lognormal MLE

pH (field), MW-11 (su)

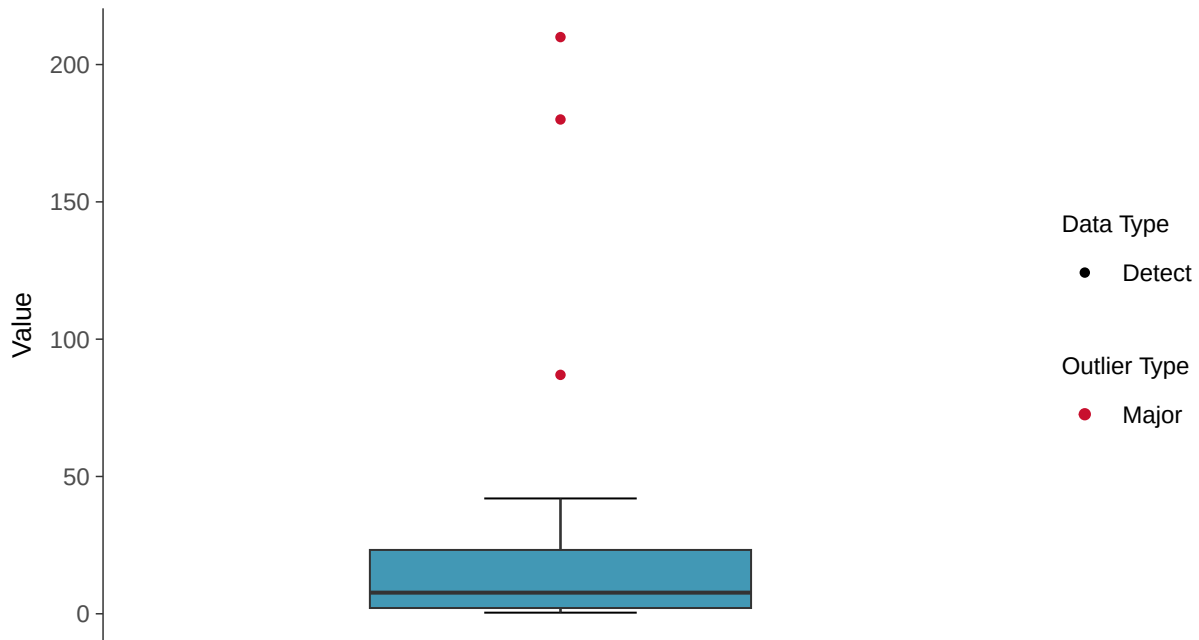






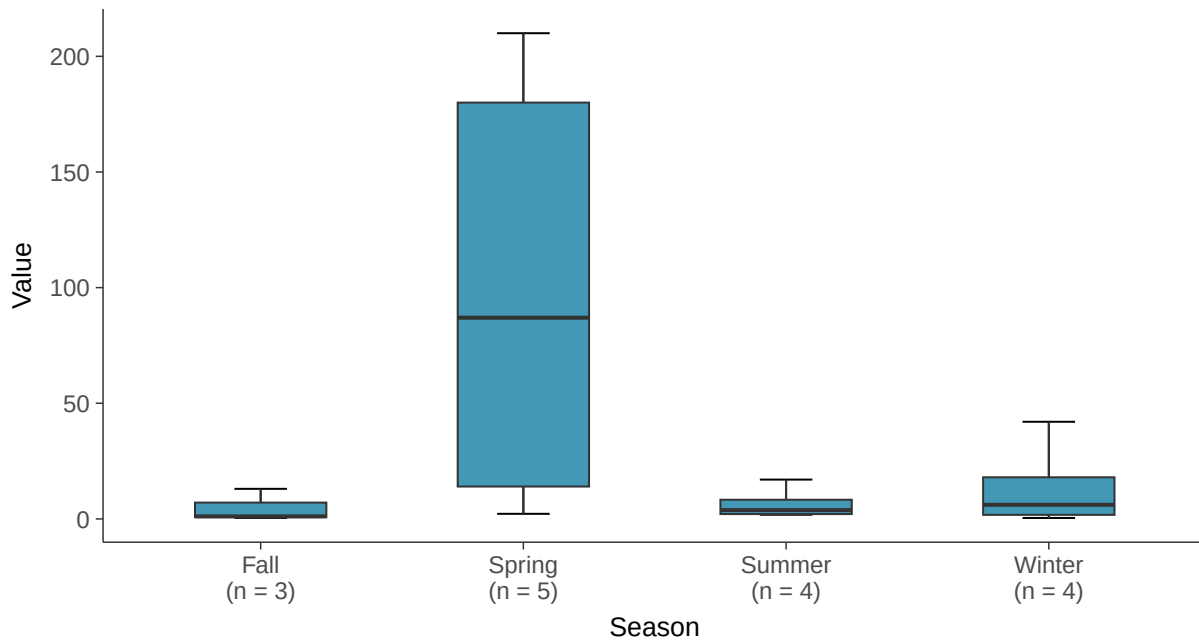
Boxplot

Sulfate (as SO₄), MW-11 (mg/L)



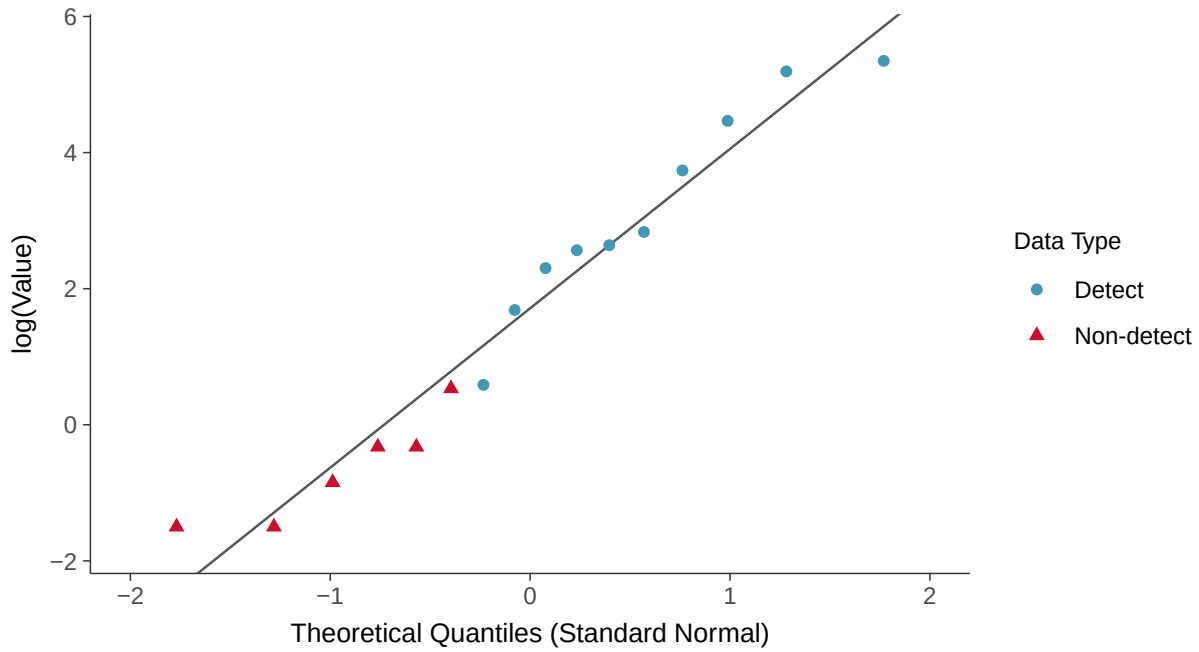
Boxplot by Season

Sulfate (as SO₄), MW-11 (mg/L)



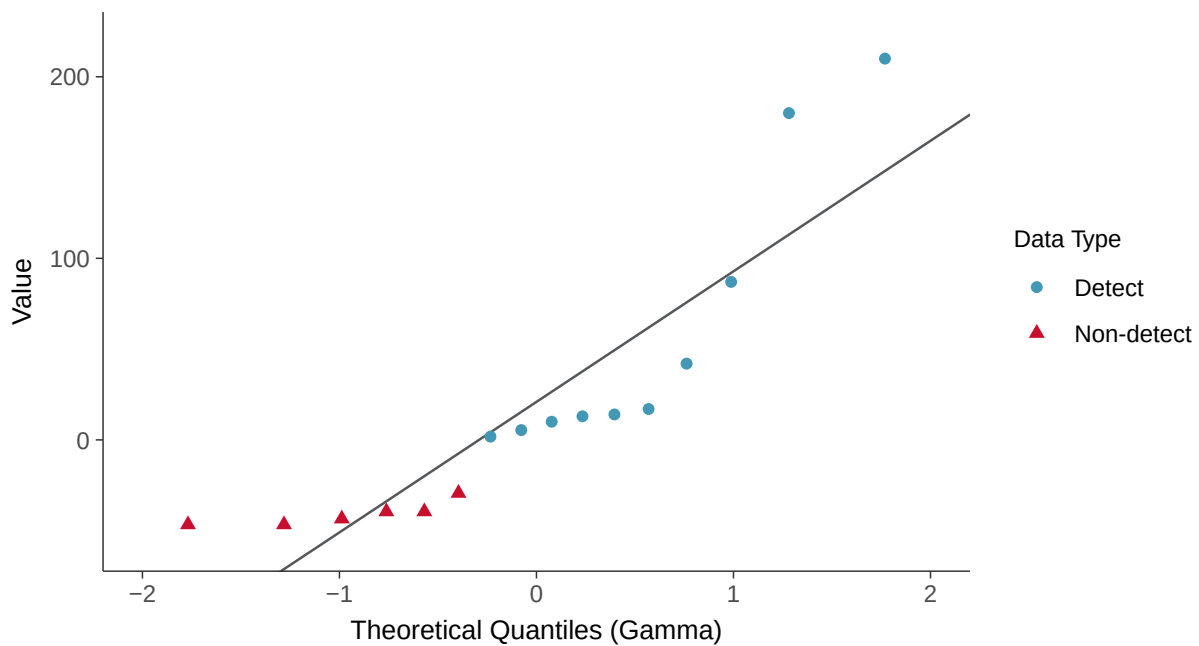
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-11 (mg/L)



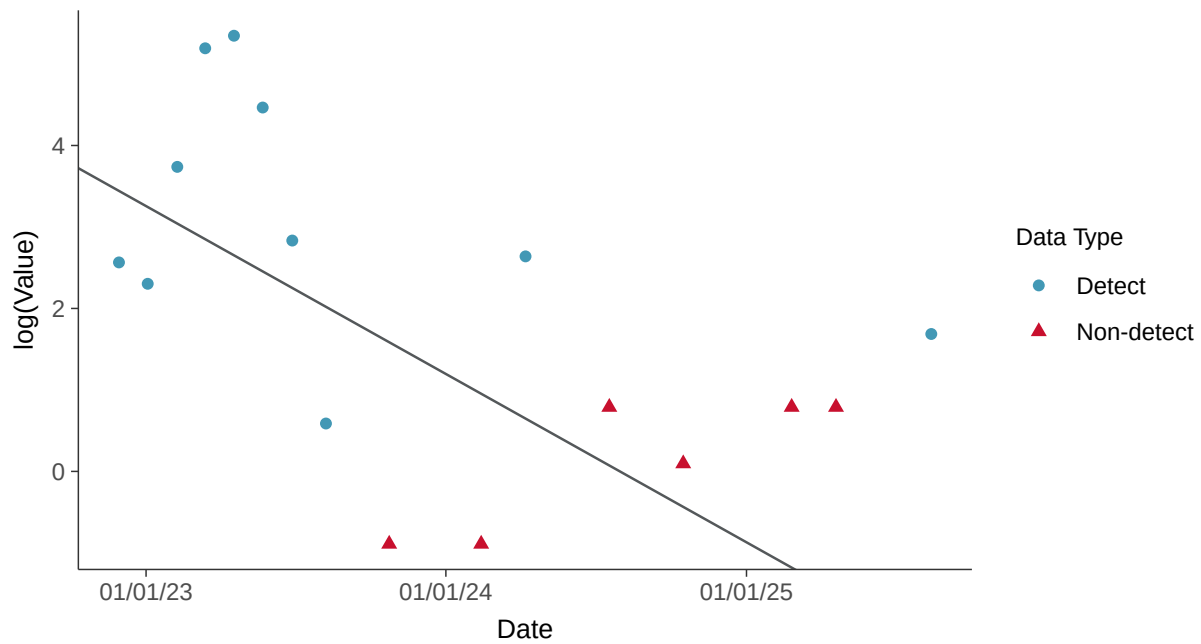
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO₄), MW-11 (mg/L)



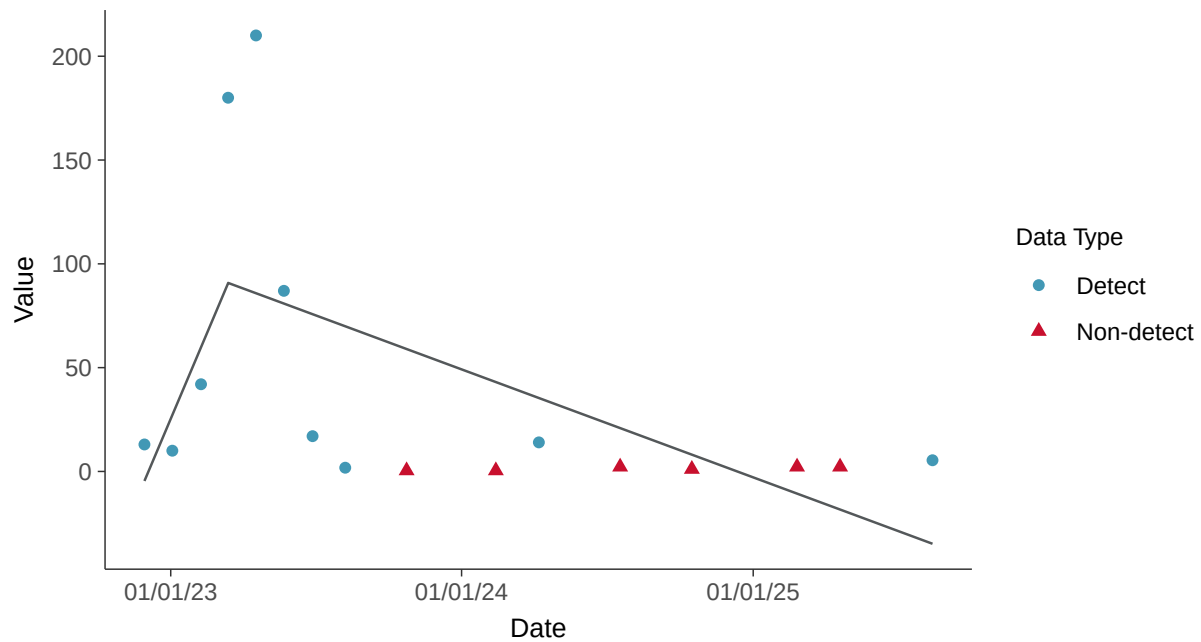
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-11 (mg/L)

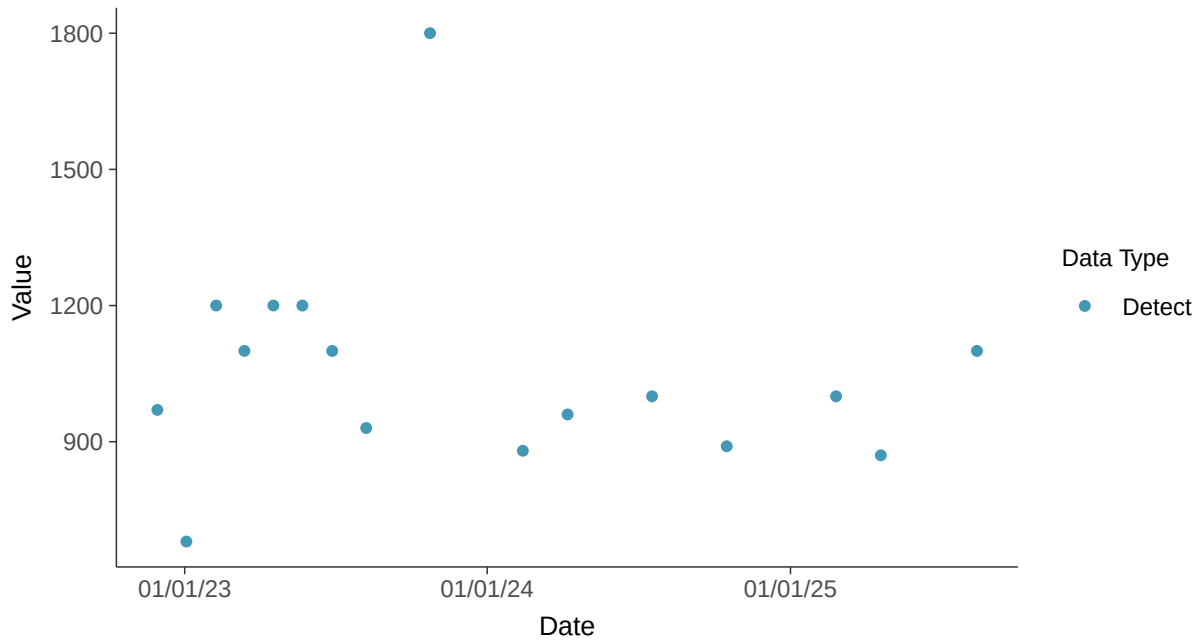


Appendix III: Total Dissolved Solids, MW-11

ID: 21_2_3_126

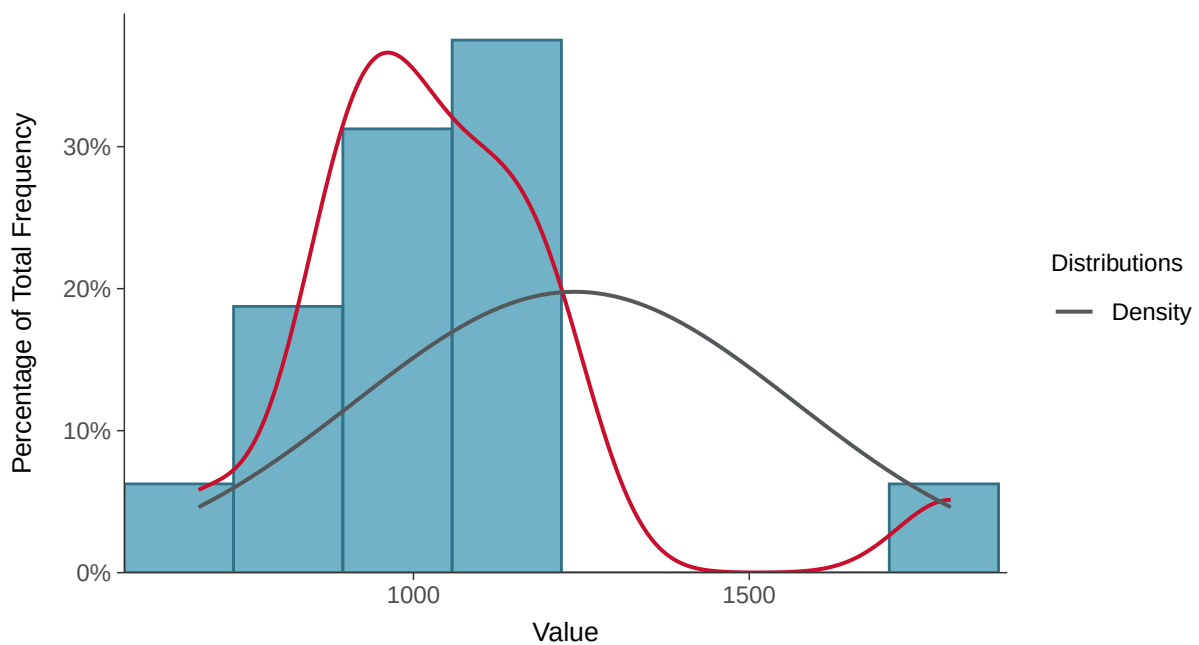
Scatter Plot

Total Dissolved Solids, MW-11 (mg/L)



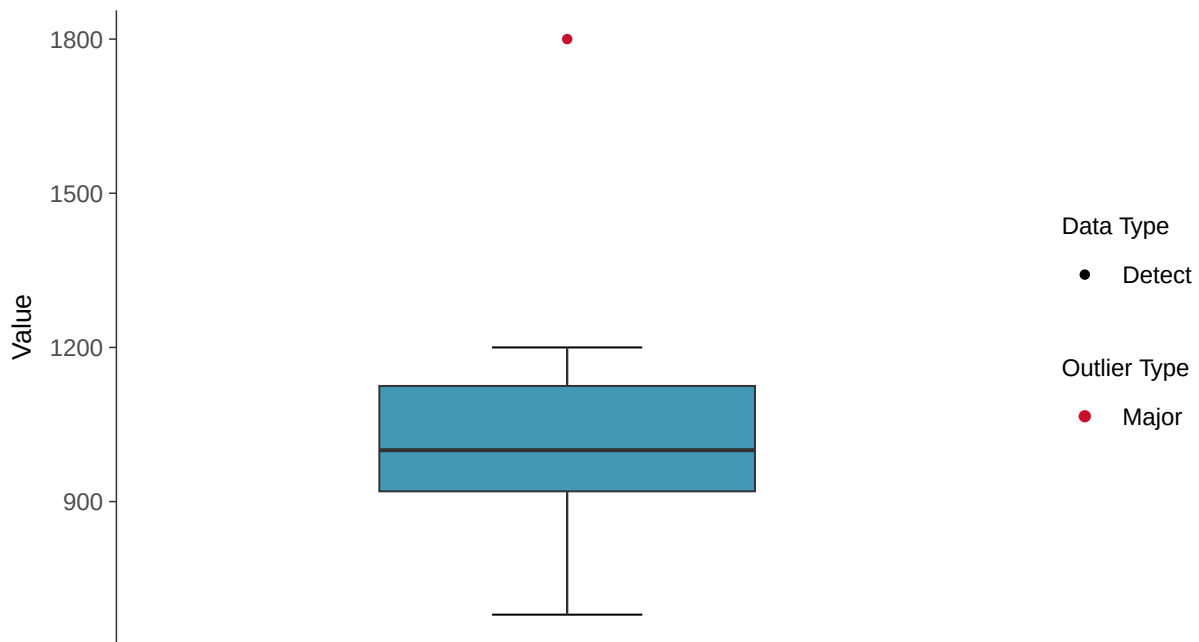
Histogram

Total Dissolved Solids, MW-11 (mg/L)



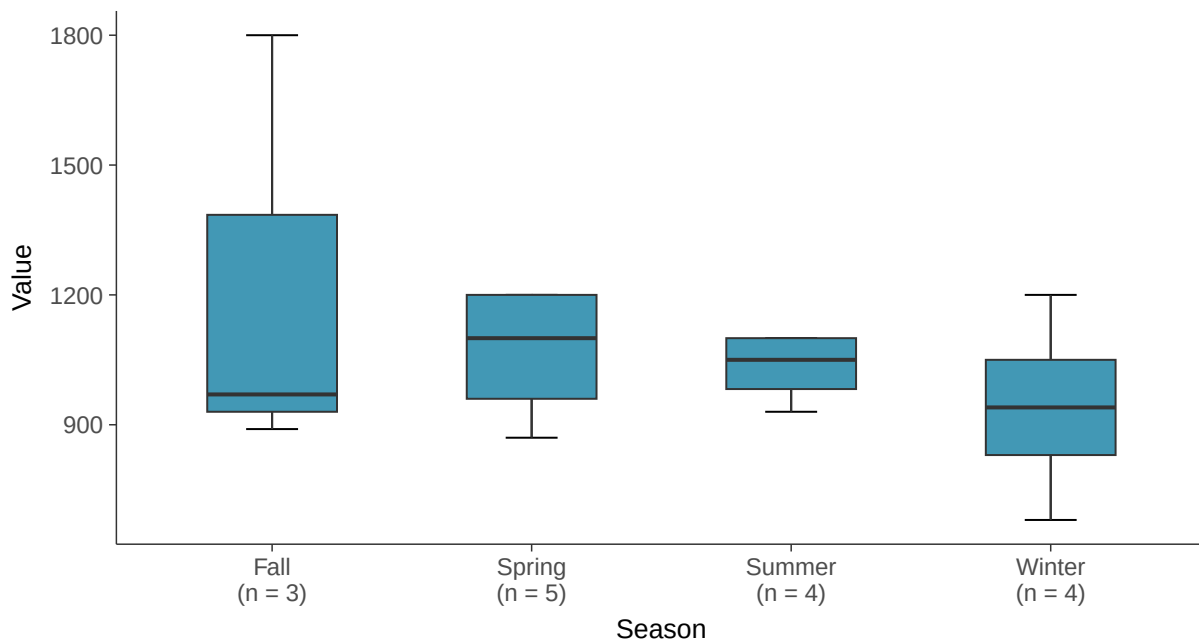
Boxplot

Total Dissolved Solids, MW-11 (mg/L)



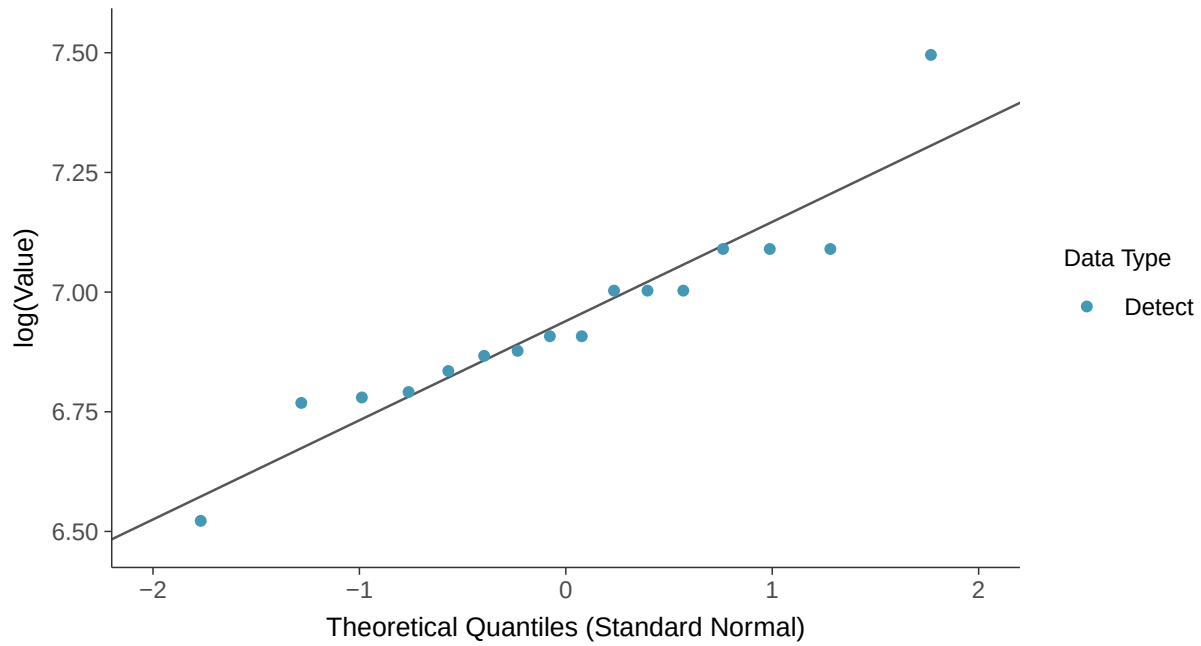
Boxplot by Season

Total Dissolved Solids, MW-11 (mg/L)



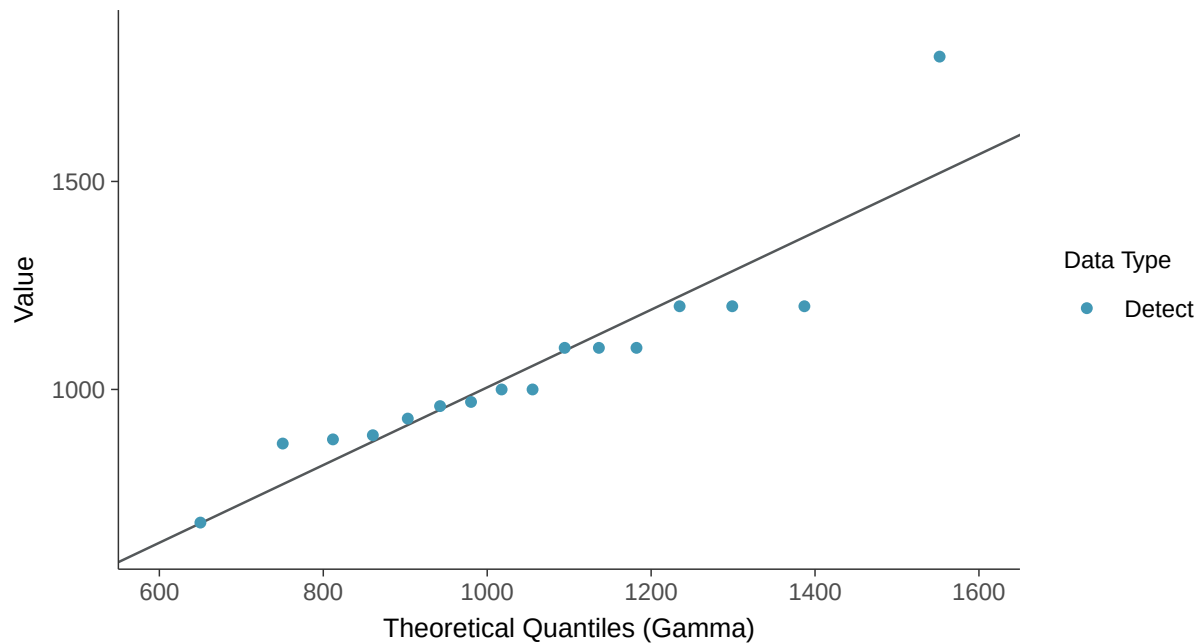
Lognormal Q-Q plot

Total Dissolved Solids, MW-11 (mg/L)

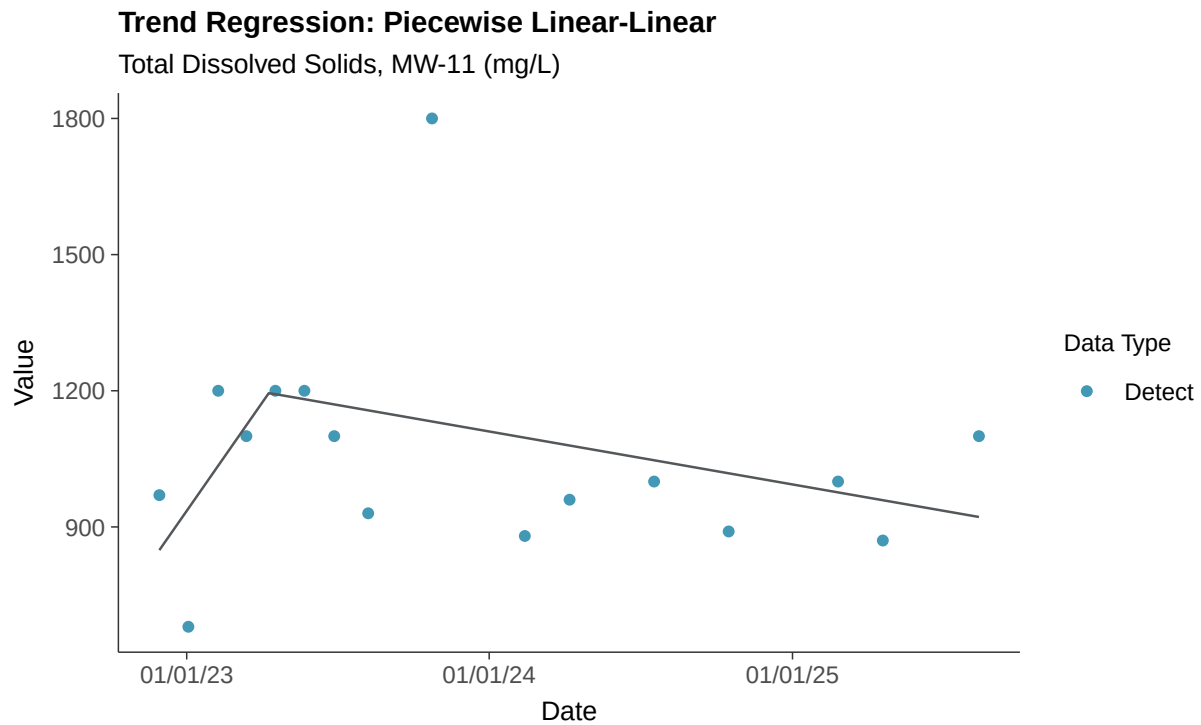


Gamma Q-Q plot

Total Dissolved Solids, MW-11 (mg/L)

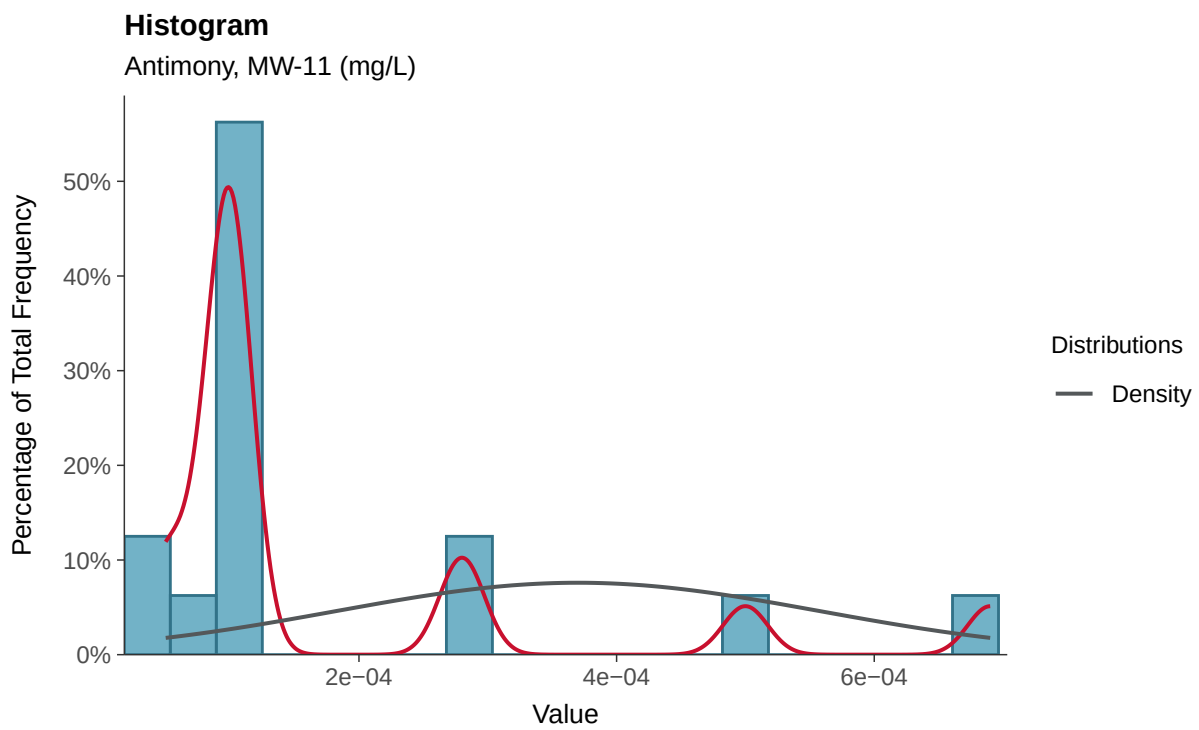
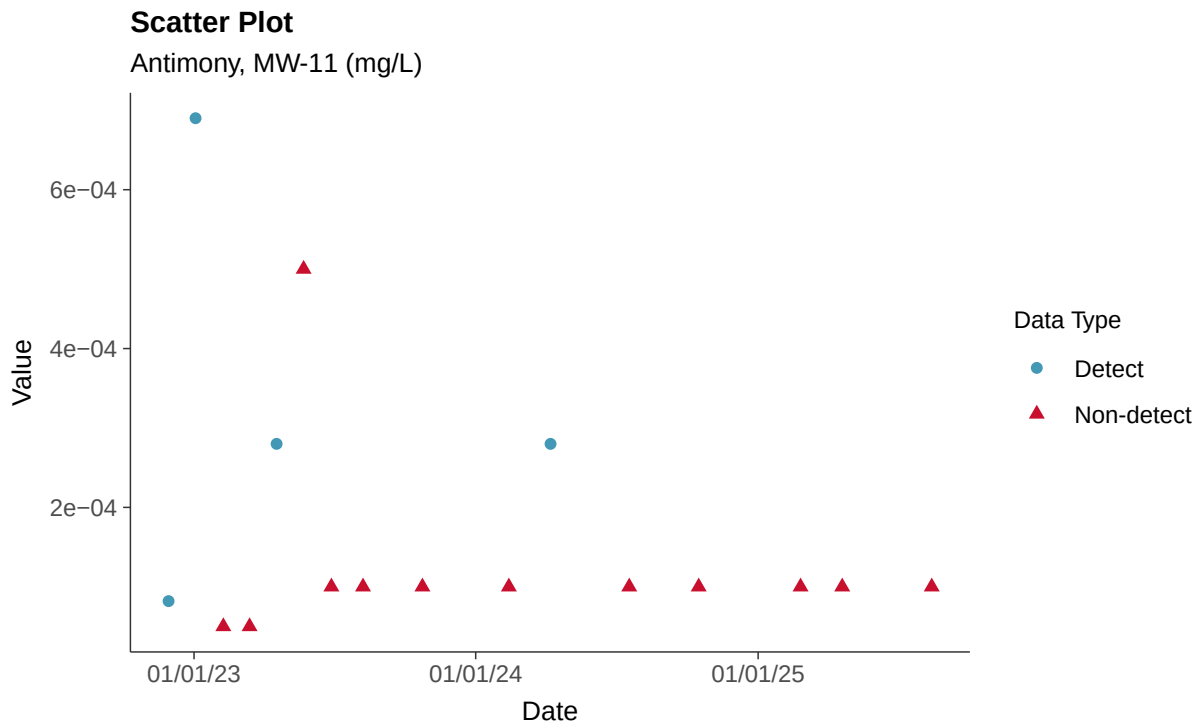


Total Dissolved Solids, MW-11 (mg/L)



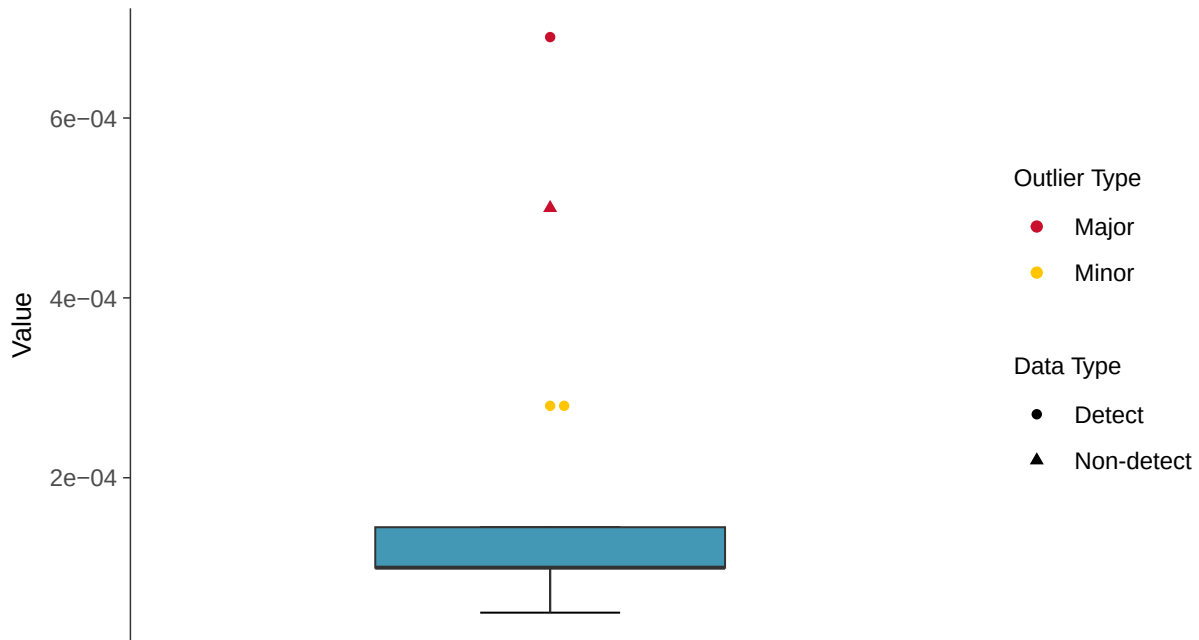
Appendix IV: Antimony, MW-11

ID: 21_2_4_101



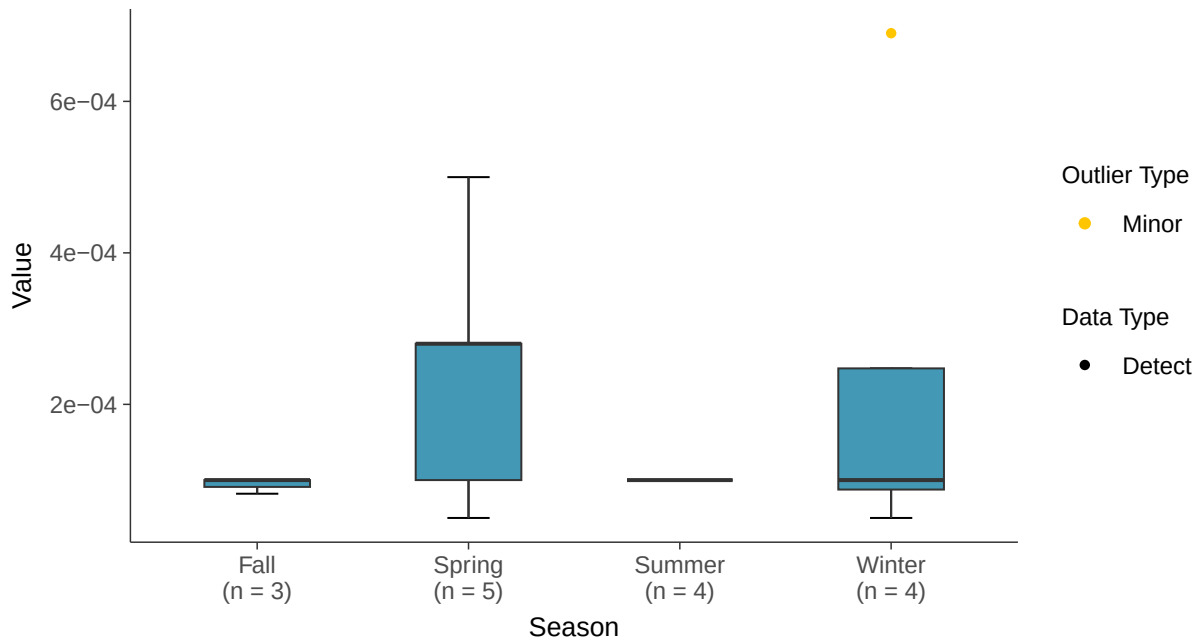
Boxplot

Antimony, MW-11 (mg/L)



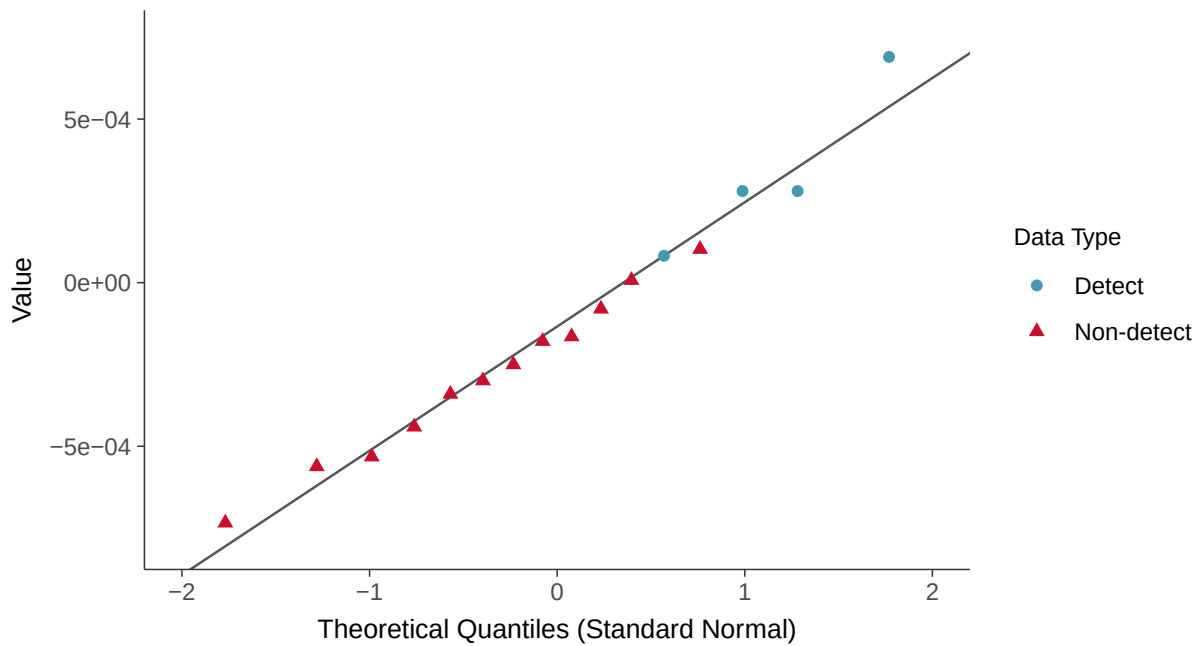
Boxplot by Season

Antimony, MW-11 (mg/L)



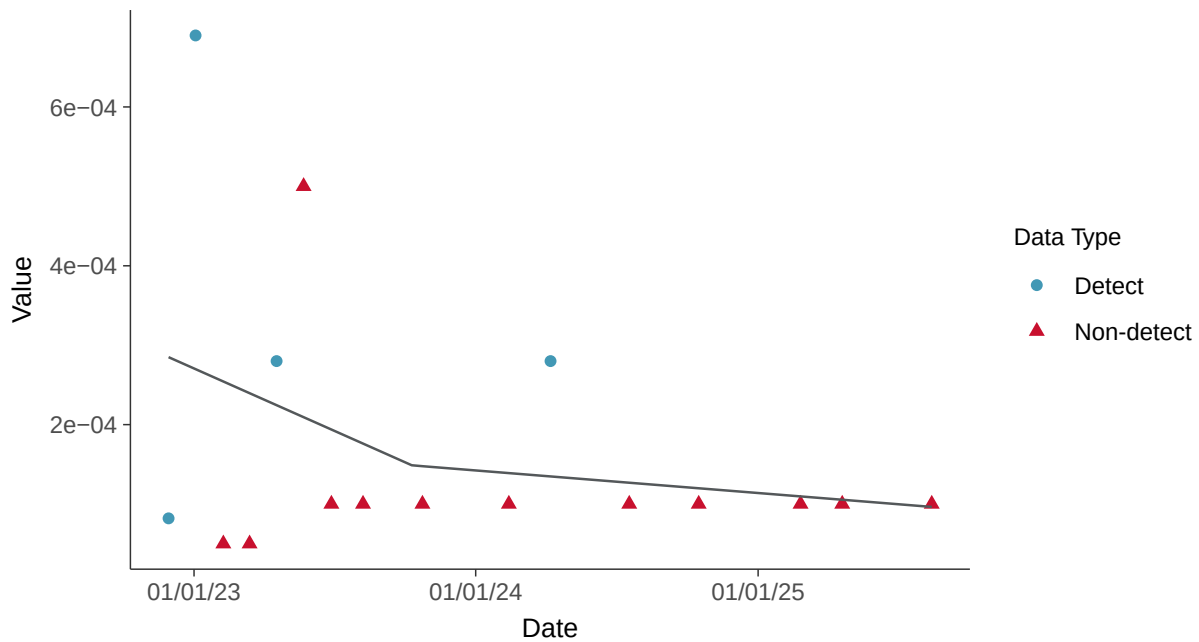
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-11 (mg/L)

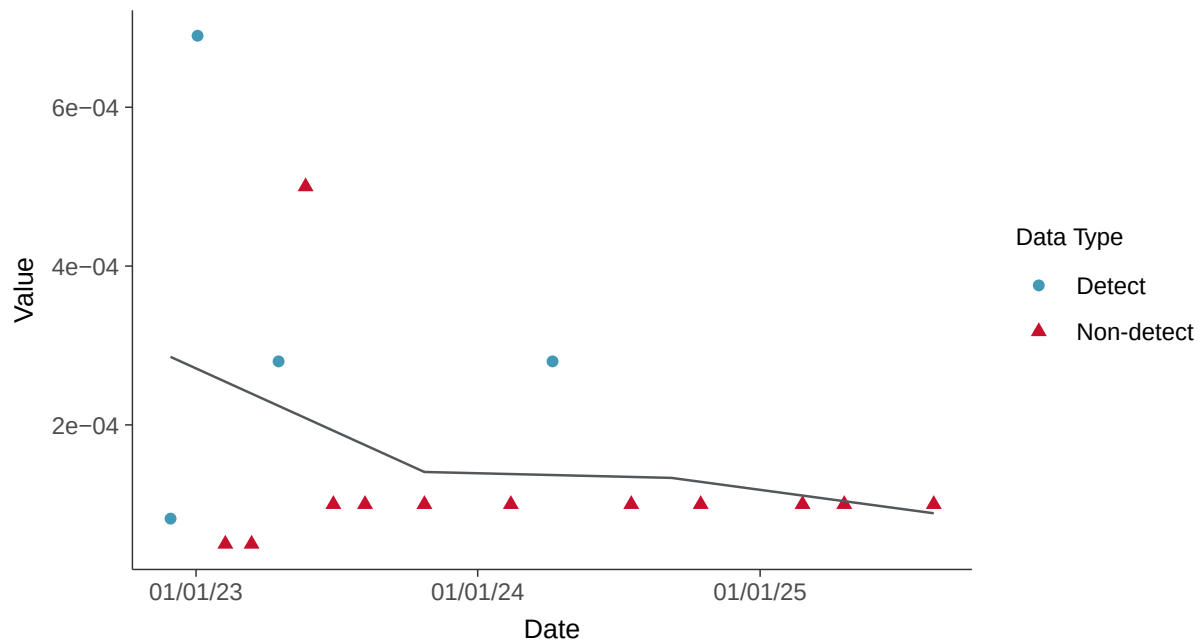


Trend Regression: Piecewise Linear-Linear

Antimony, MW-11 (mg/L)

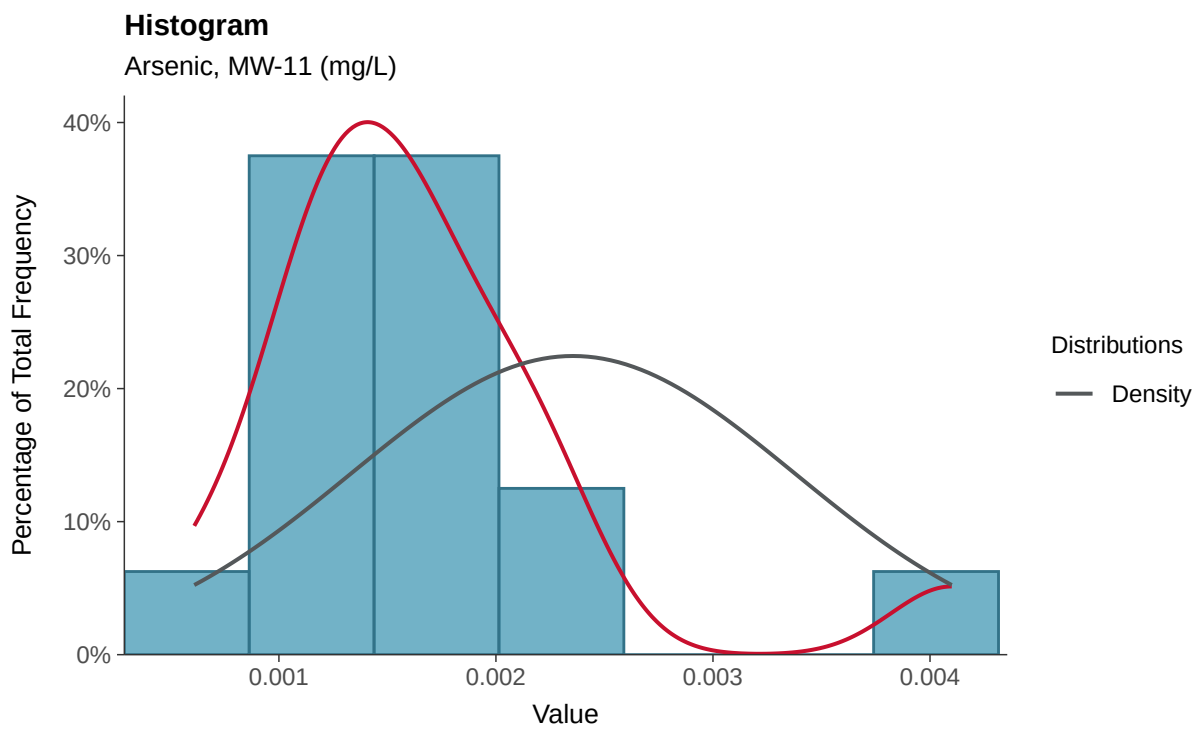
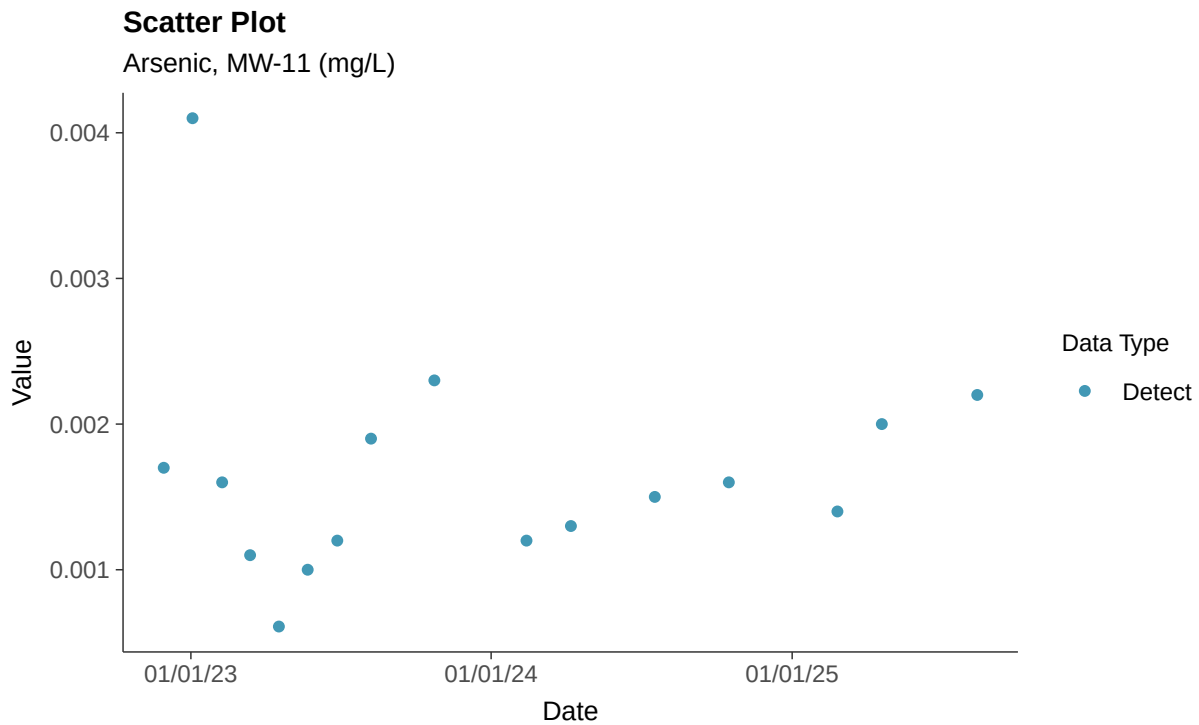


Antimony, MW-11 (mg/L)



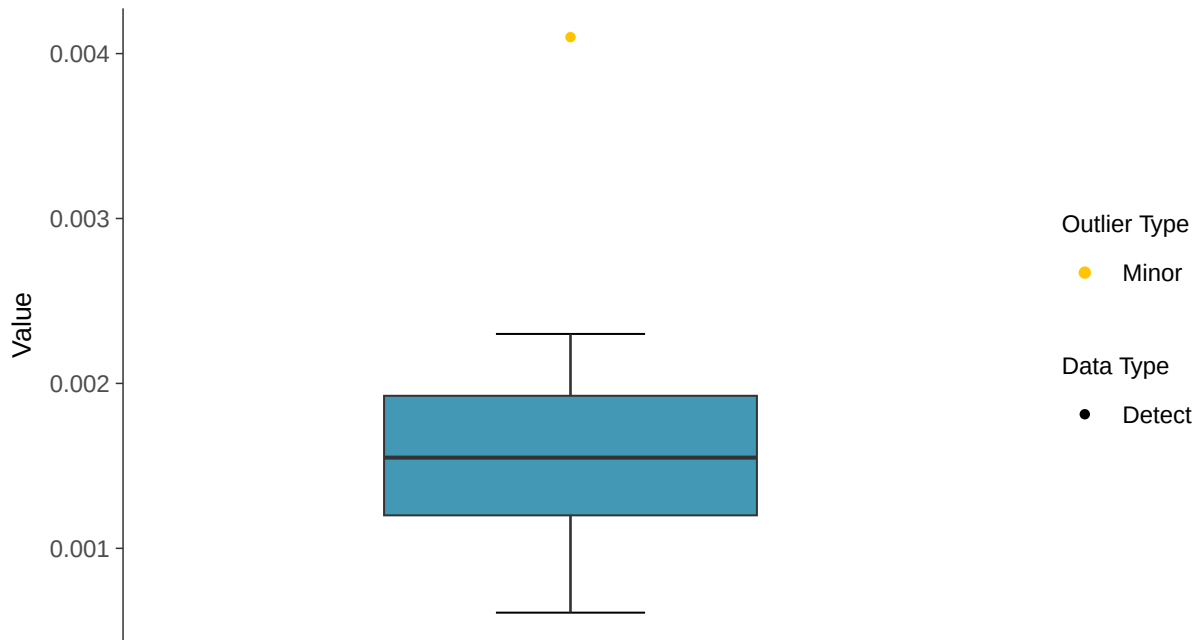
Appendix IV: Arsenic, MW-11

ID: 21_2_4_102



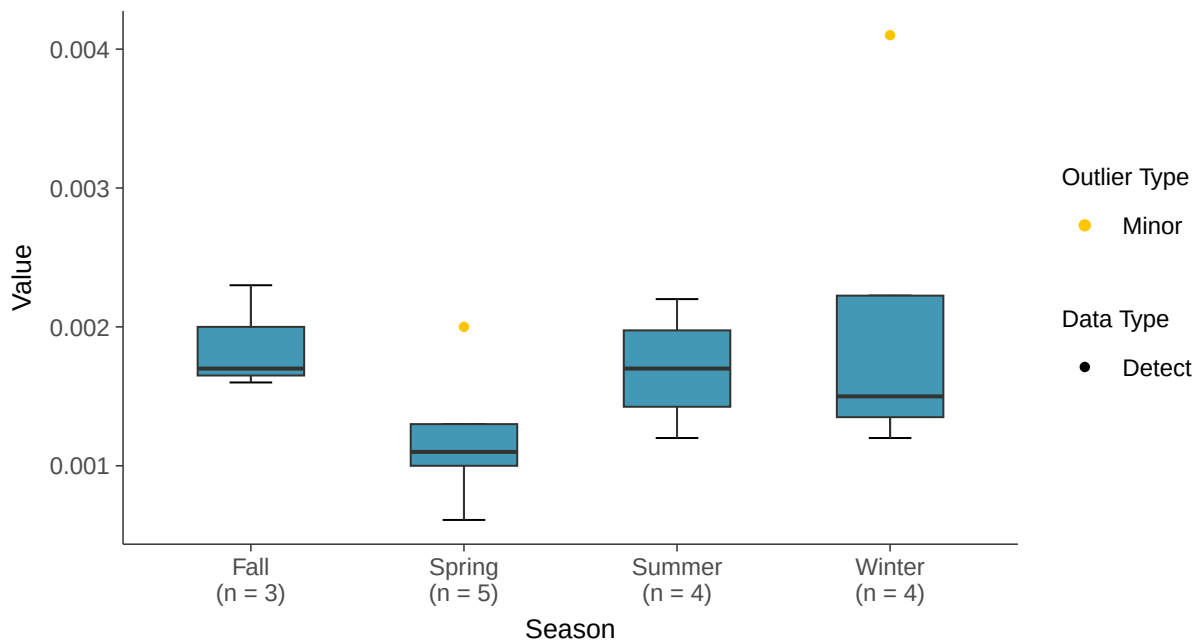
Boxplot

Arsenic, MW-11 (mg/L)



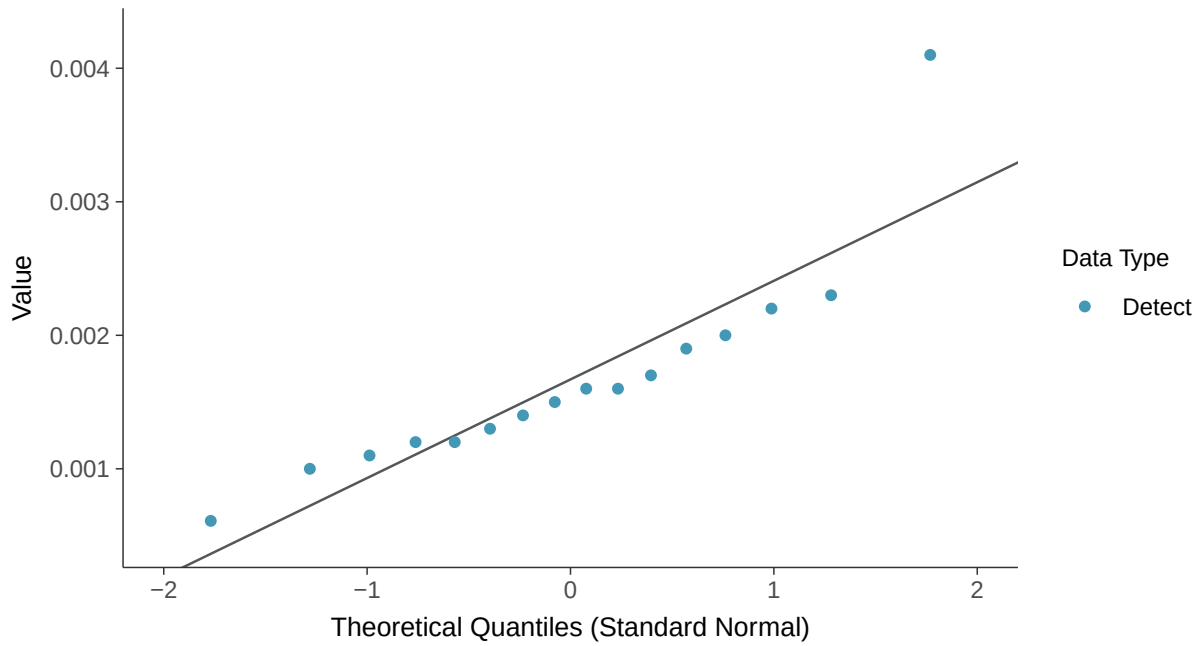
Boxplot by Season

Arsenic, MW-11 (mg/L)



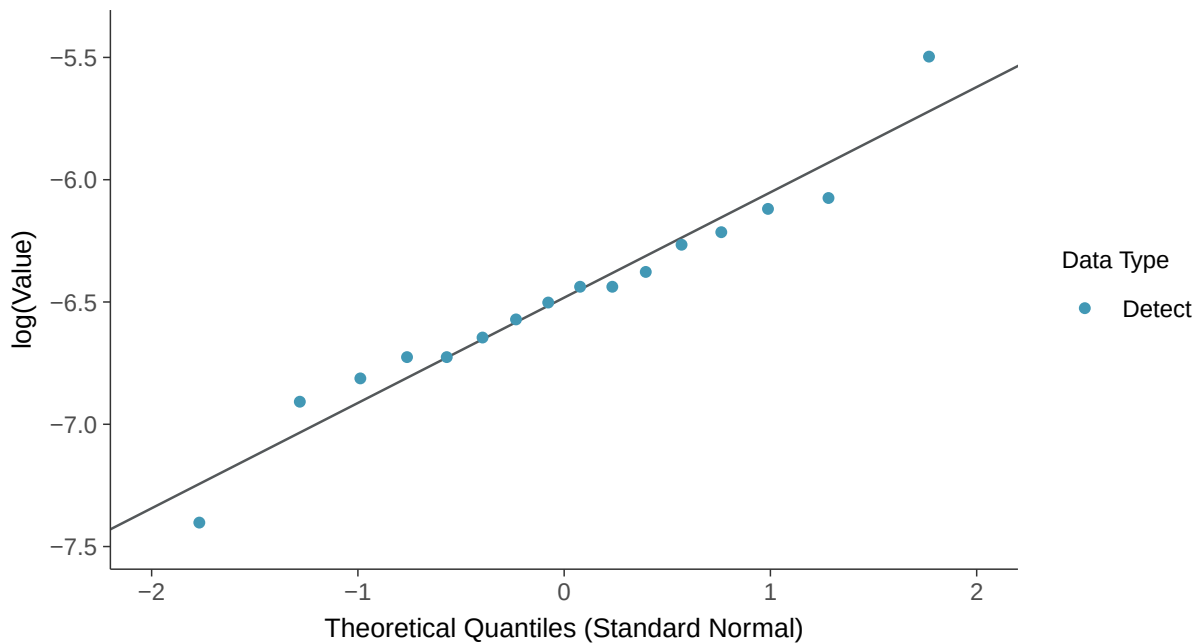
Normal Q-Q plot

Arsenic, MW-11 (mg/L)

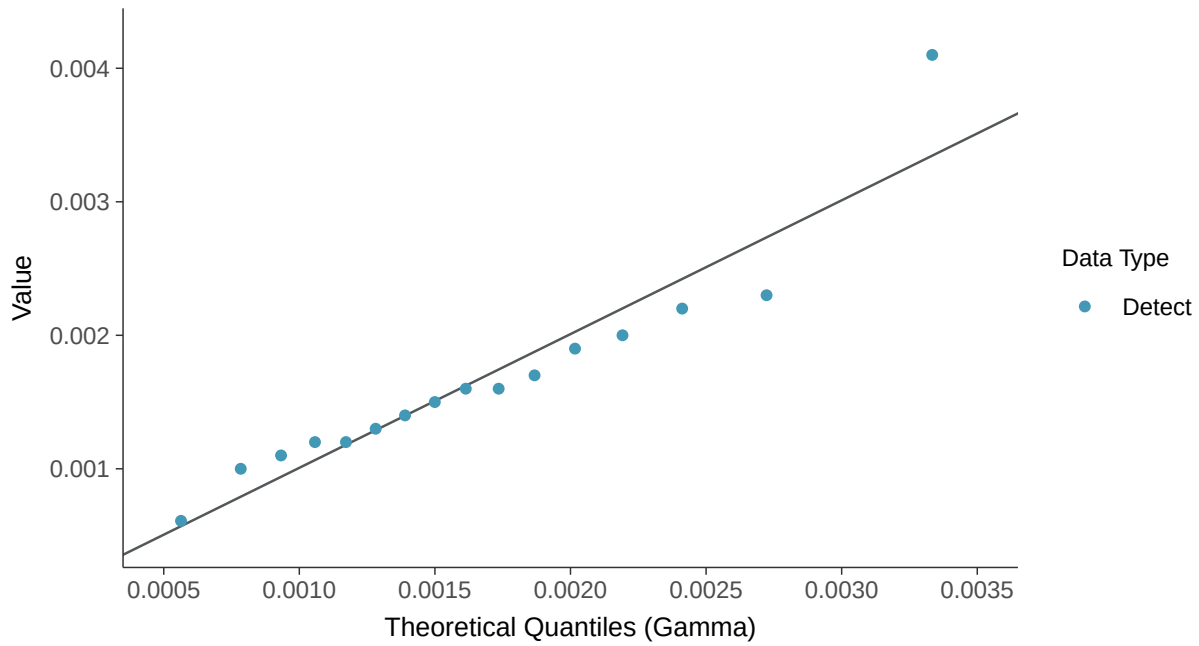


Lognormal Q-Q plot

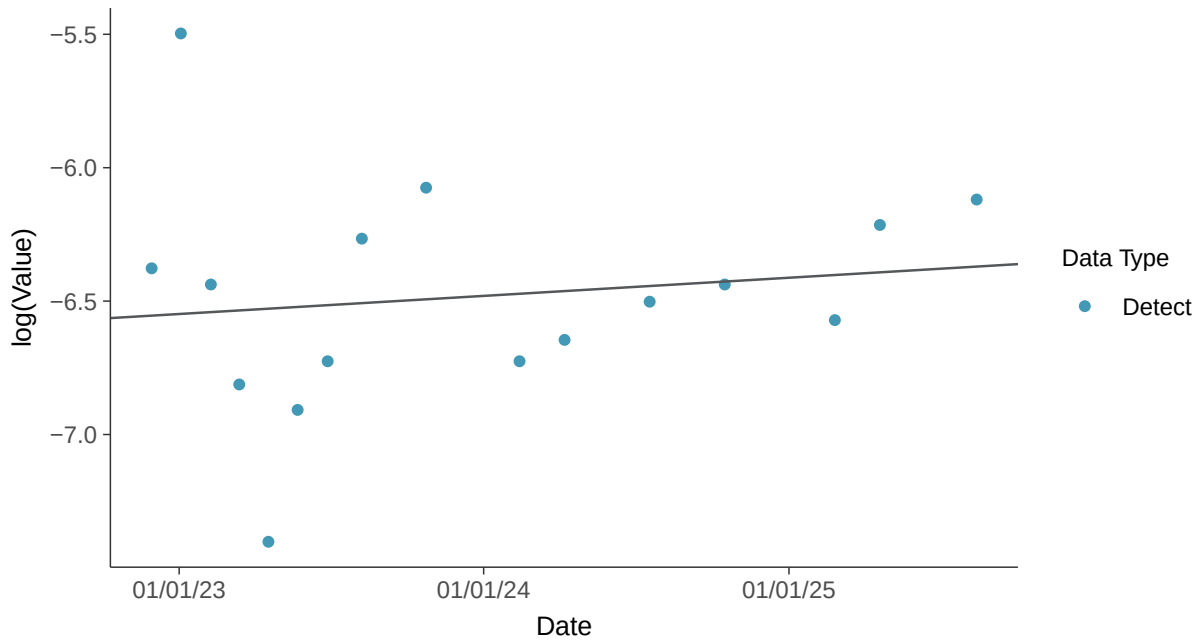
Arsenic, MW-11 (mg/L)



Gamma Q-Q plot
Arsenic, MW-11 (mg/L)

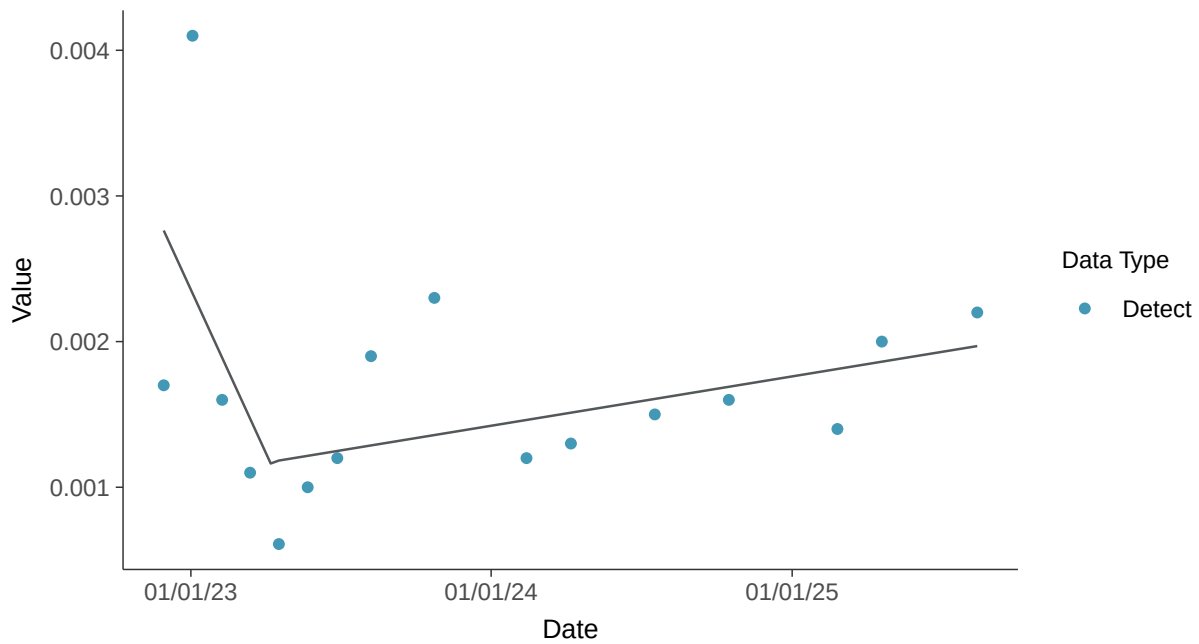


Trend Regression: Lognormal MLE
Arsenic, MW-11 (mg/L)



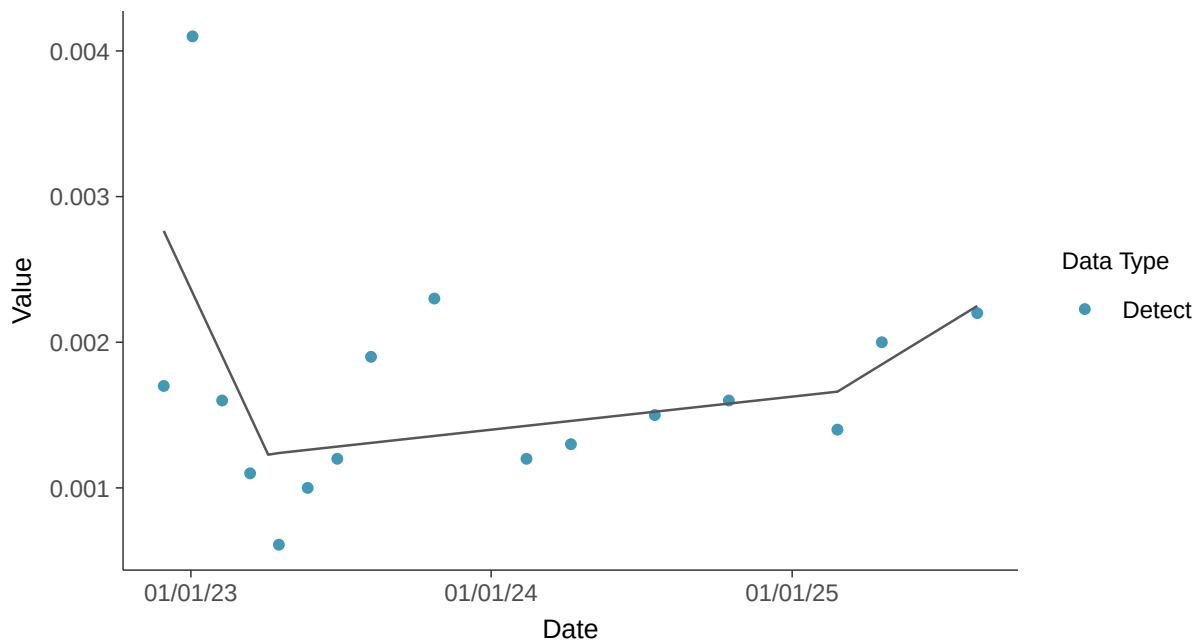
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-11 (mg/L)



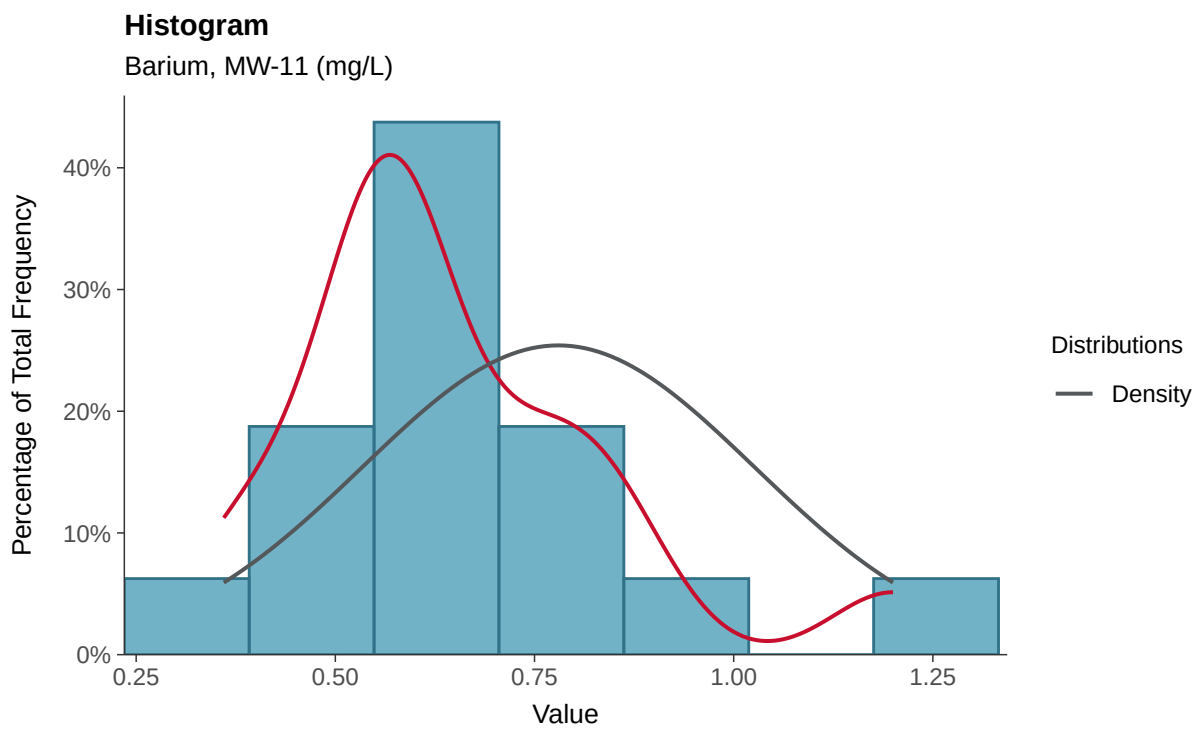
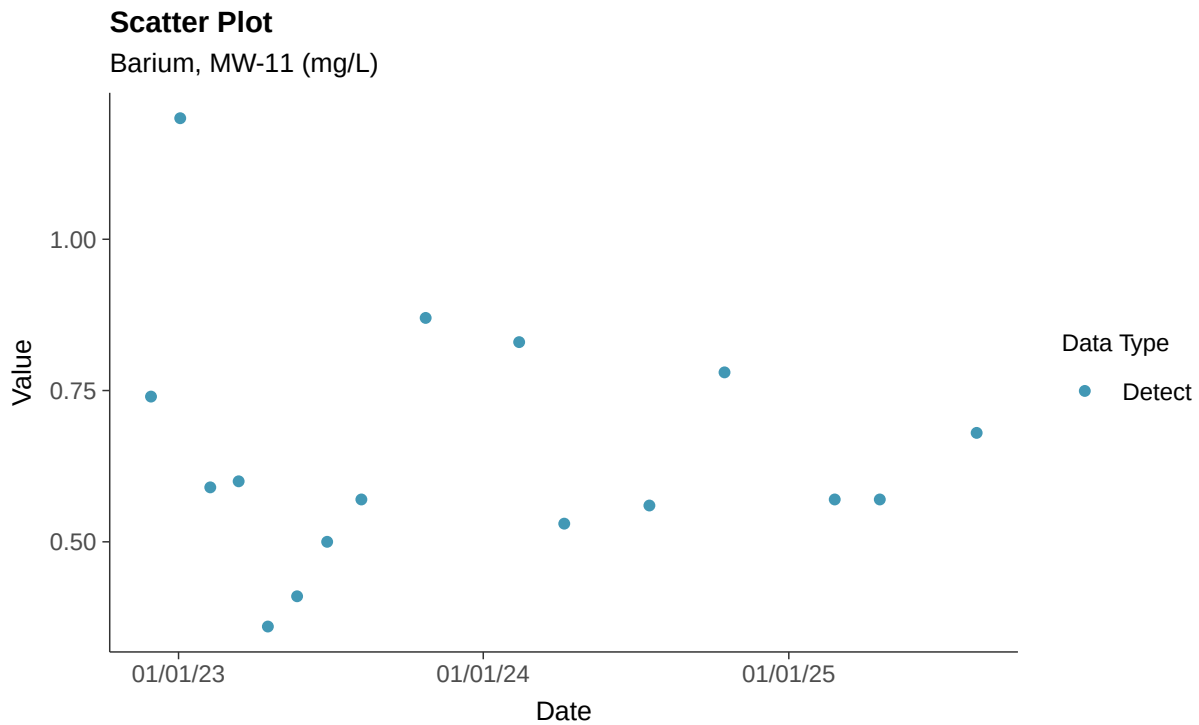
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-11 (mg/L)



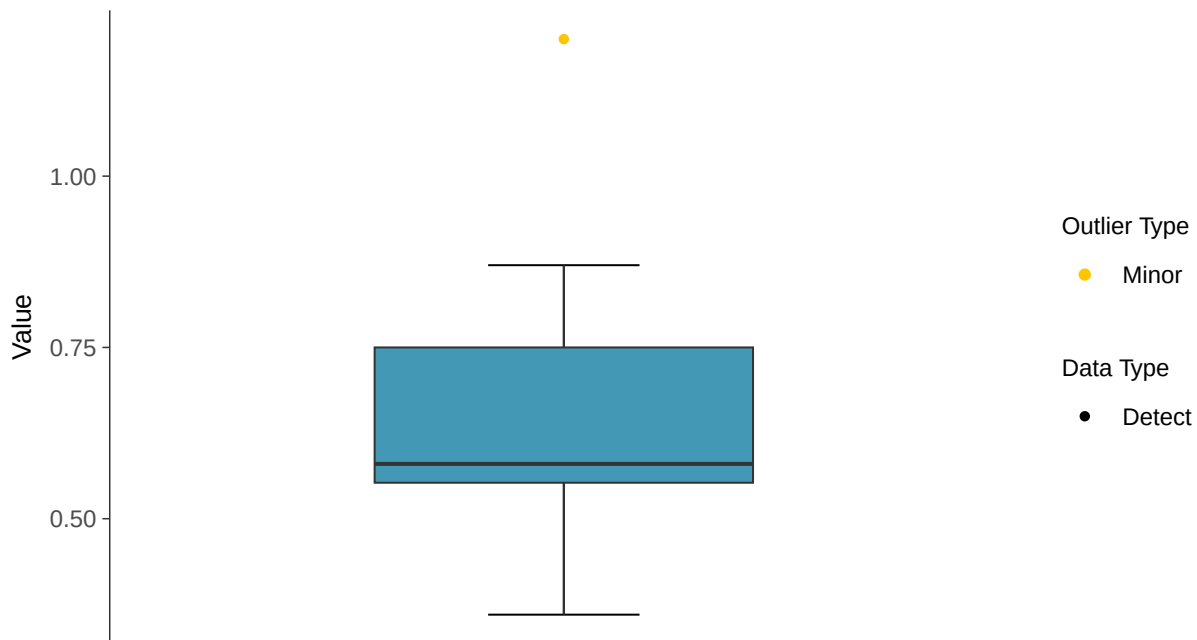
Appendix IV: Barium, MW-11

ID: 21_2_4_103



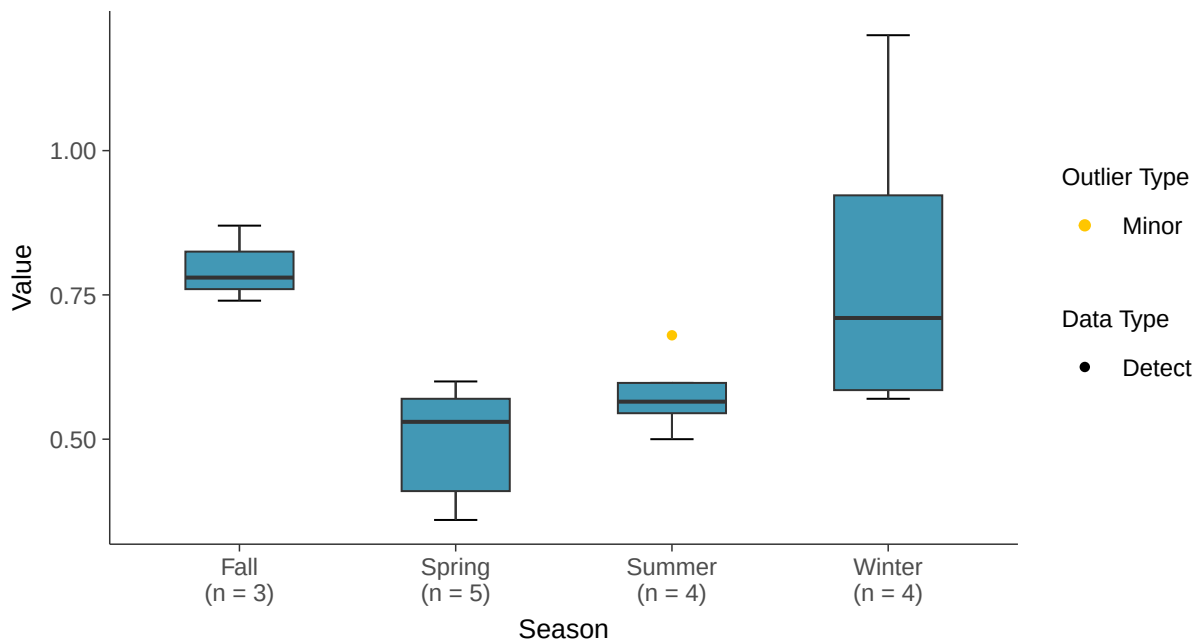
Boxplot

Barium, MW-11 (mg/L)



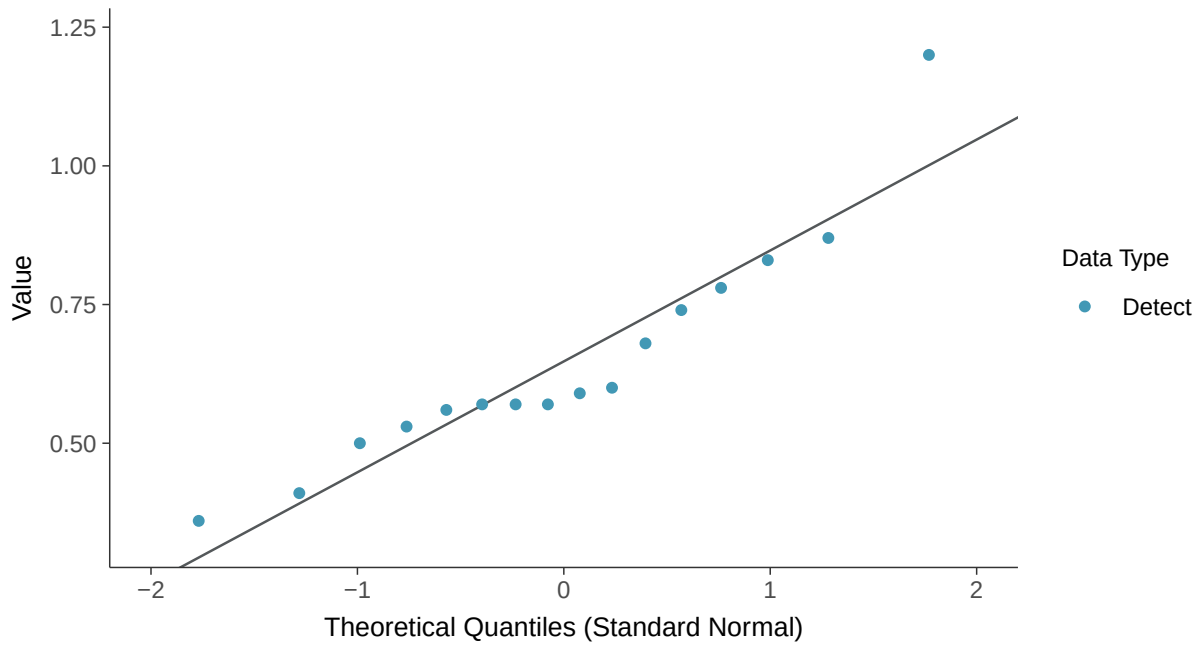
Boxplot by Season

Barium, MW-11 (mg/L)



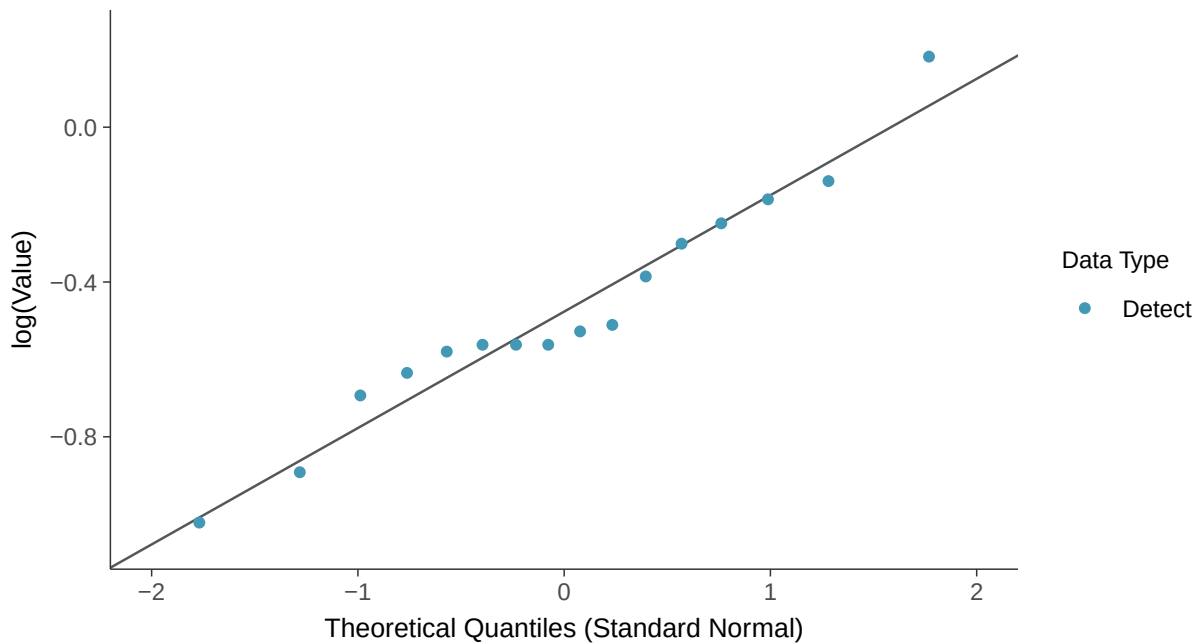
Normal Q-Q plot

Barium, MW-11 (mg/L)



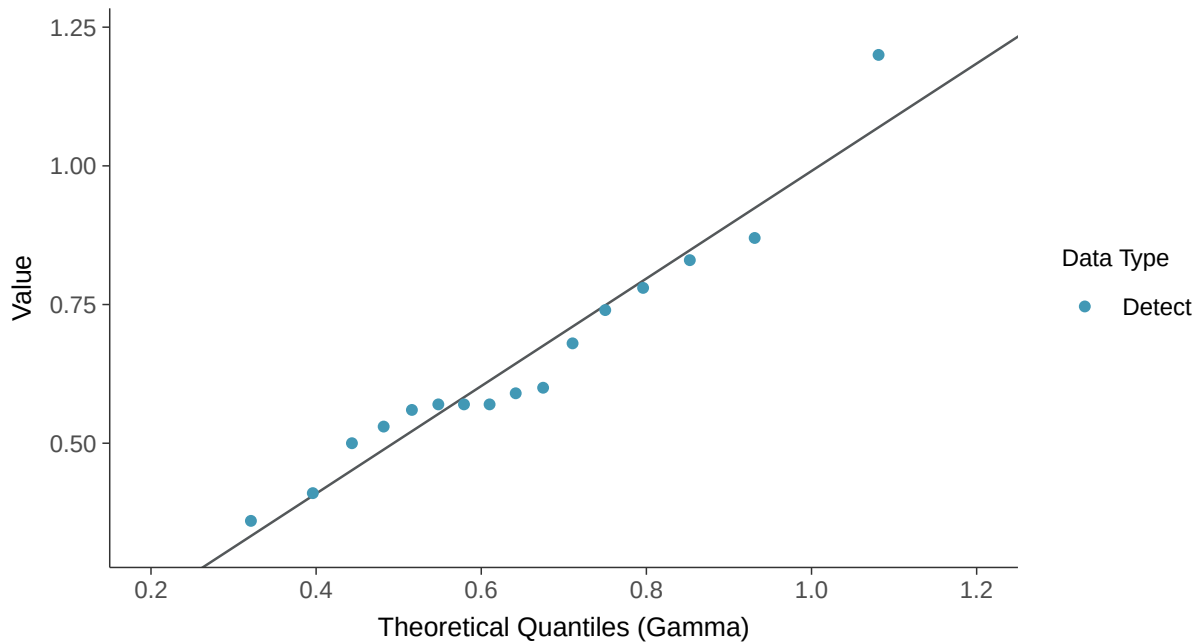
Lognormal Q-Q plot

Barium, MW-11 (mg/L)



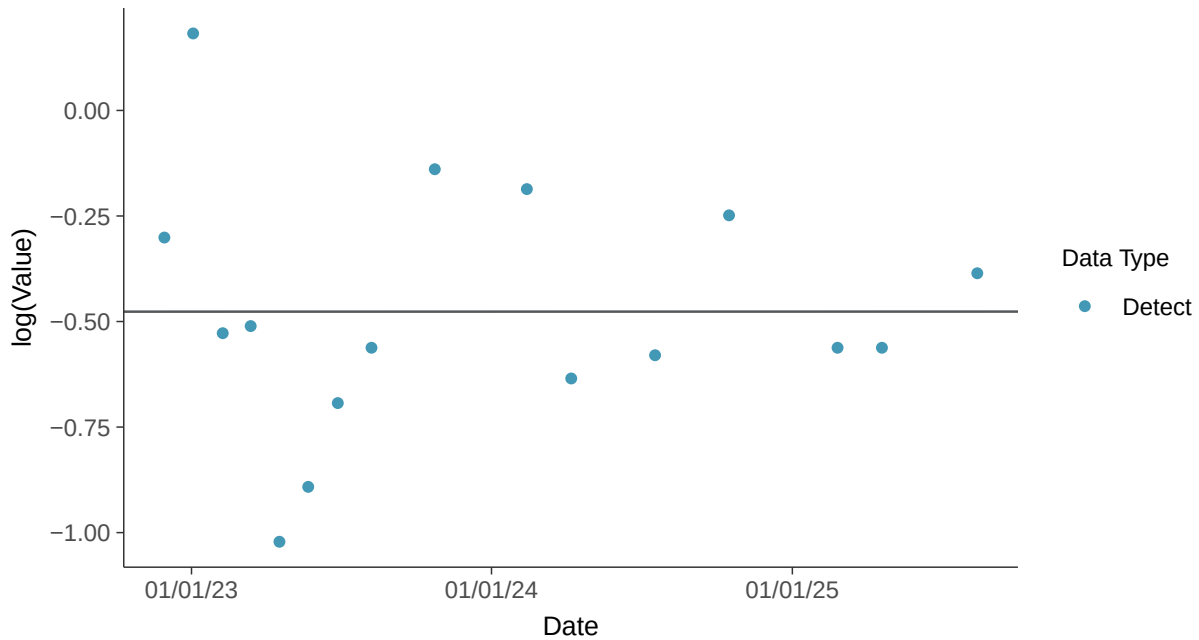
Gamma Q-Q plot

Barium, MW-11 (mg/L)



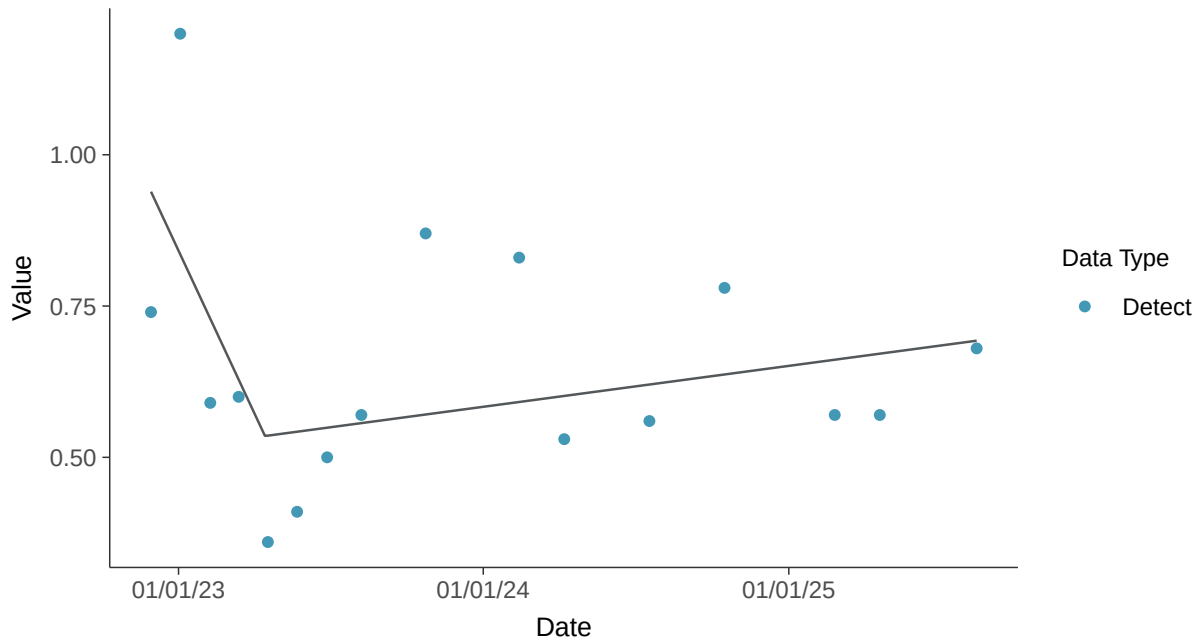
Trend Regression: Lognormal MLE

Barium, MW-11 (mg/L)



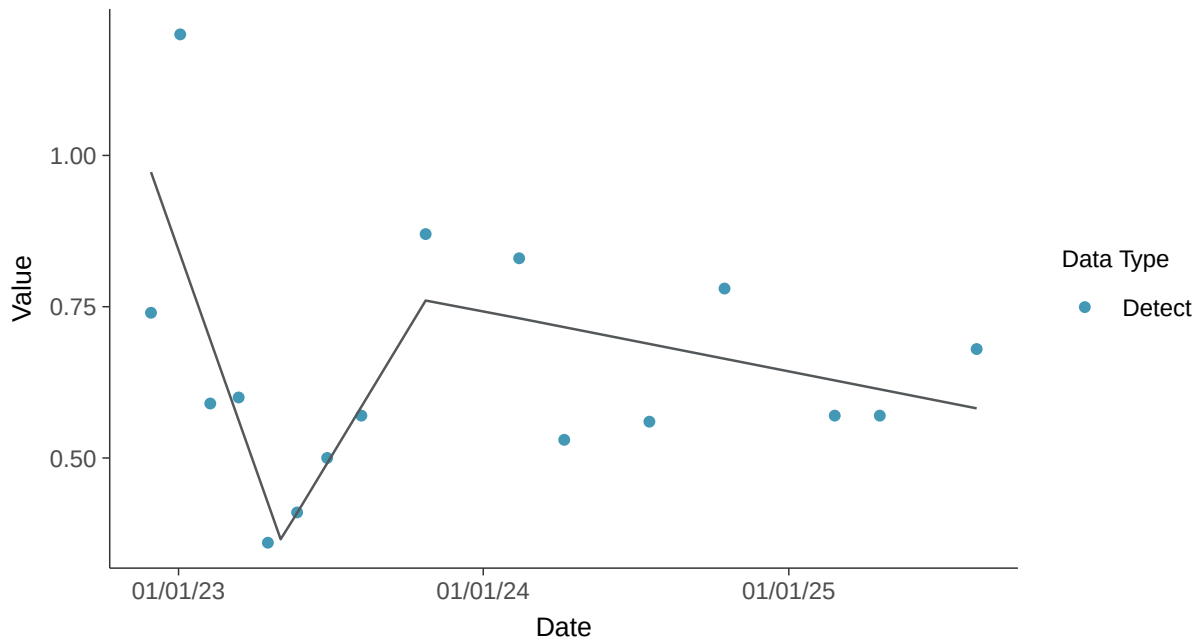
Trend Regression: Piecewise Linear-Linear

Barium, MW-11 (mg/L)



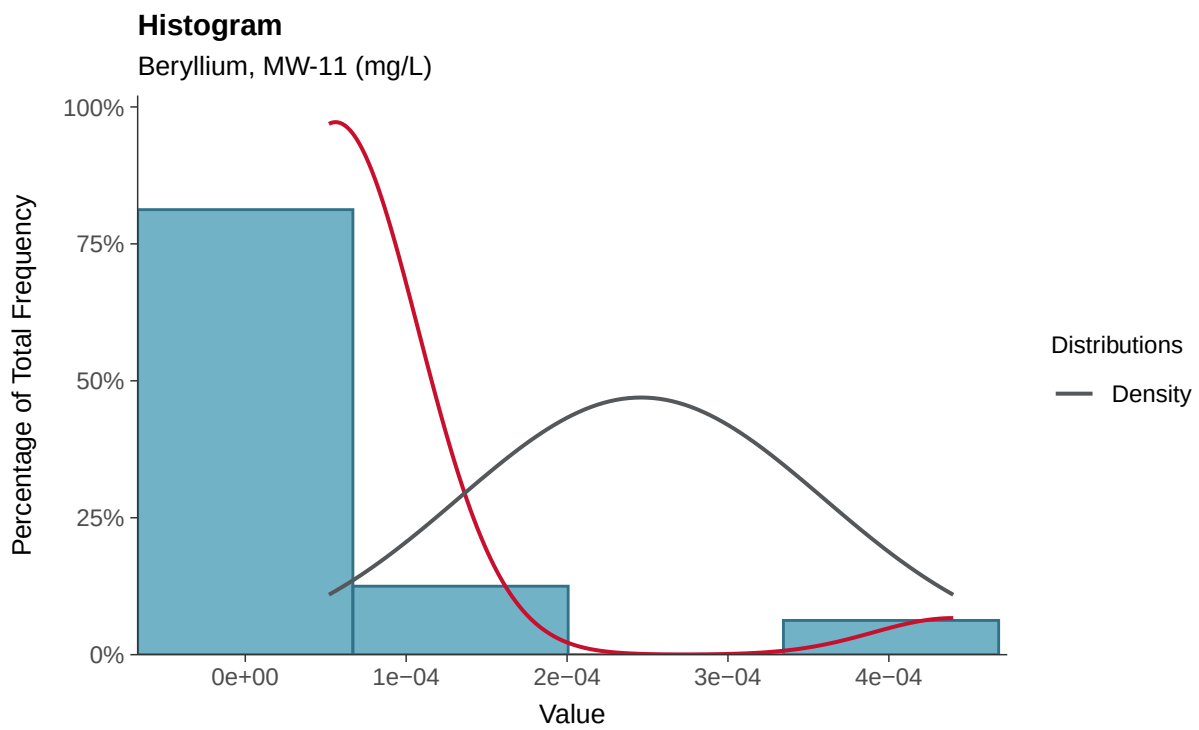
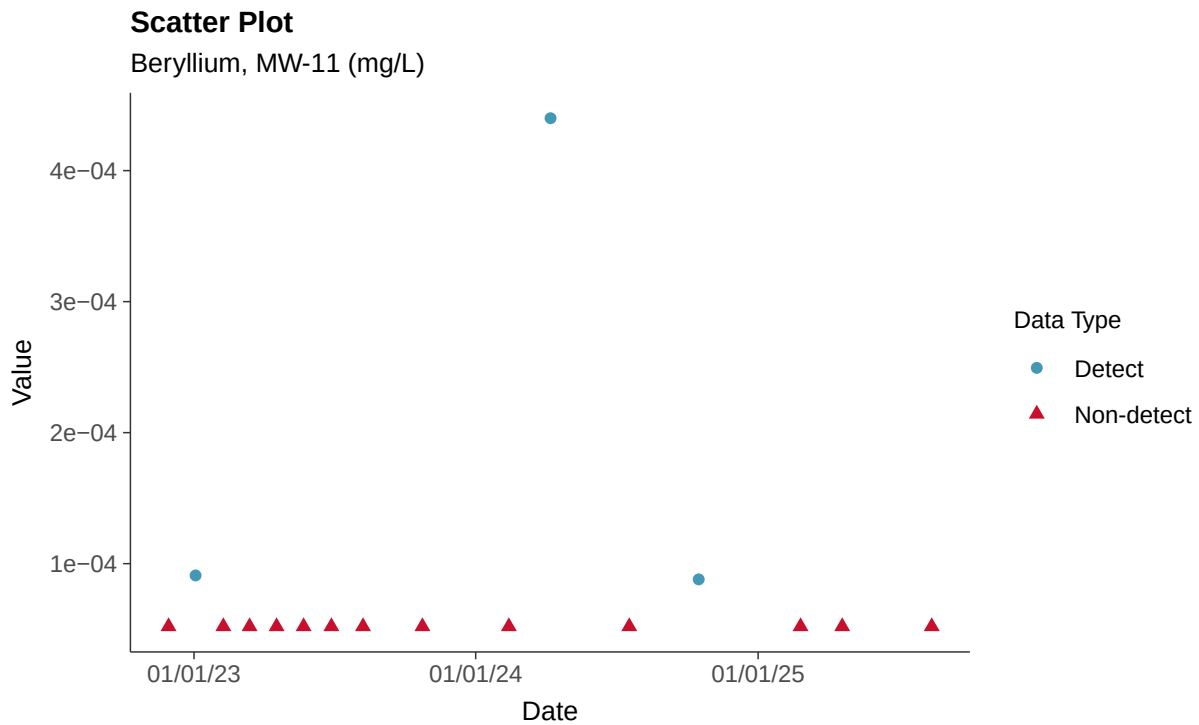
Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-11 (mg/L)



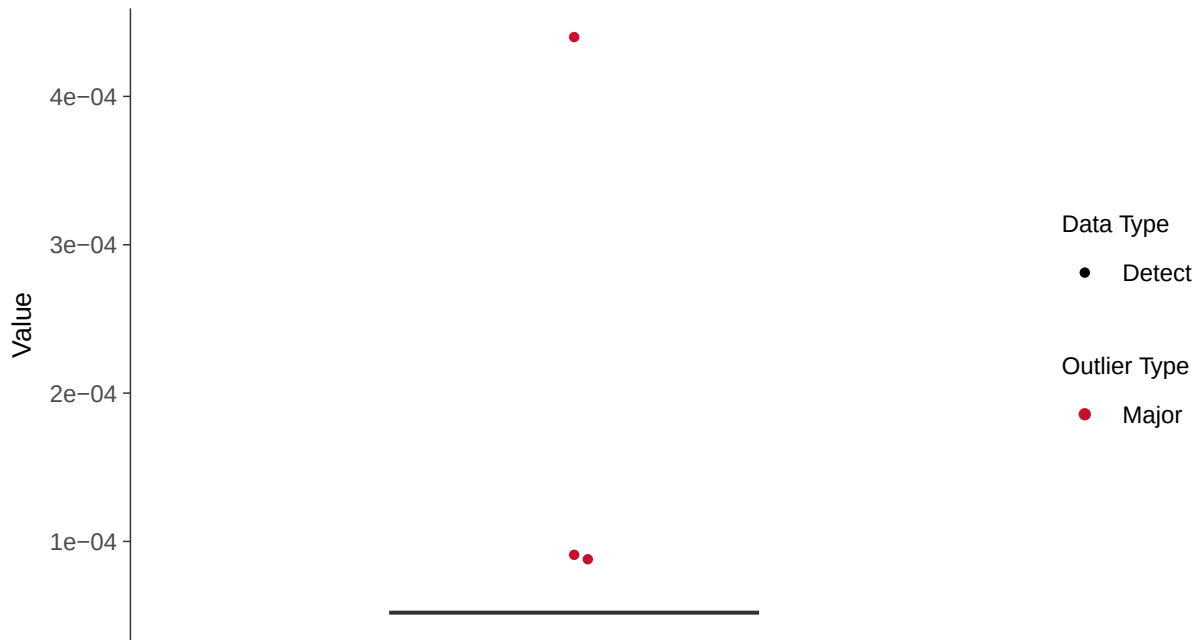
Appendix IV: Beryllium, MW-11

ID: 21_2_4_104



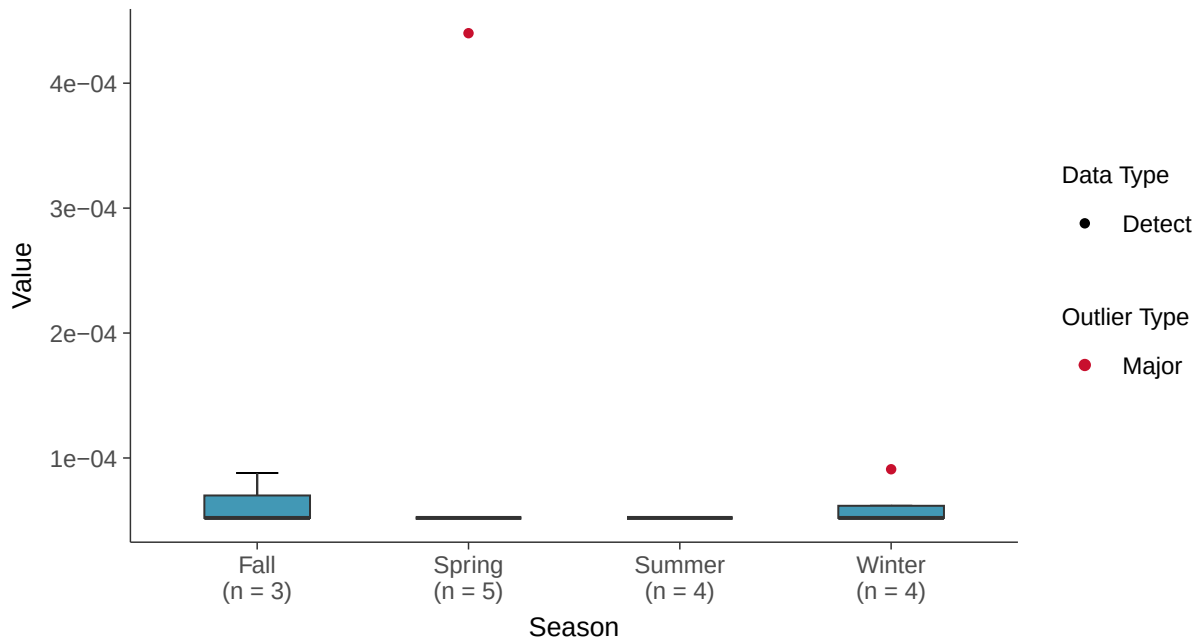
Boxplot

Beryllium, MW-11 (mg/L)



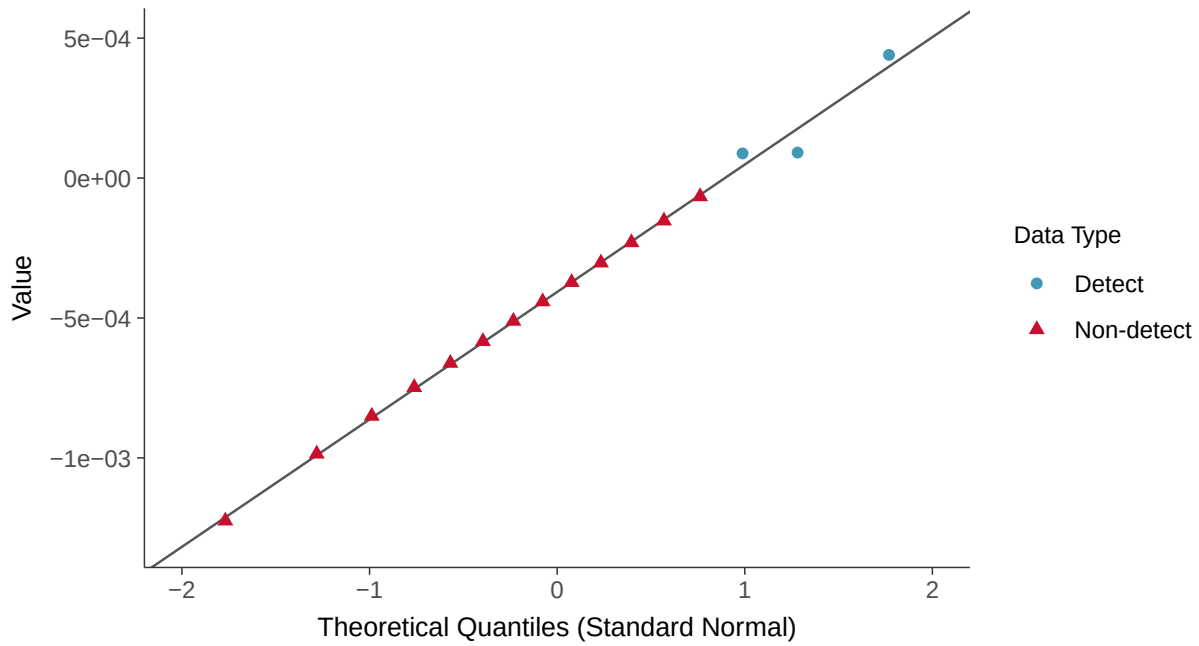
Boxplot by Season

Beryllium, MW-11 (mg/L)



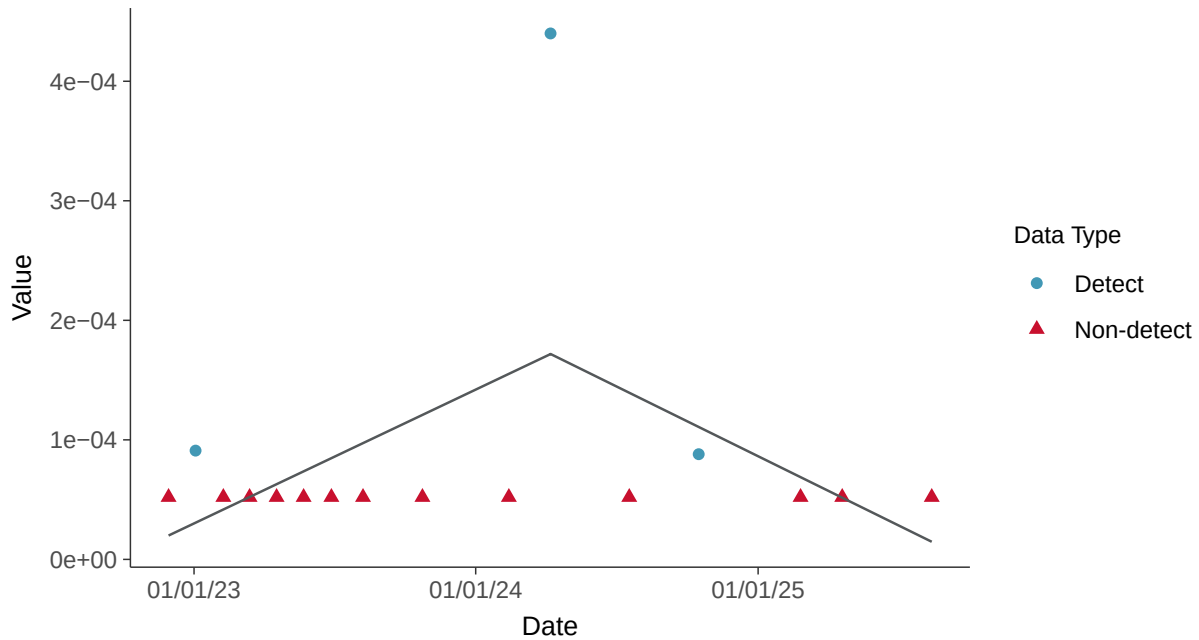
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-11 (mg/L)

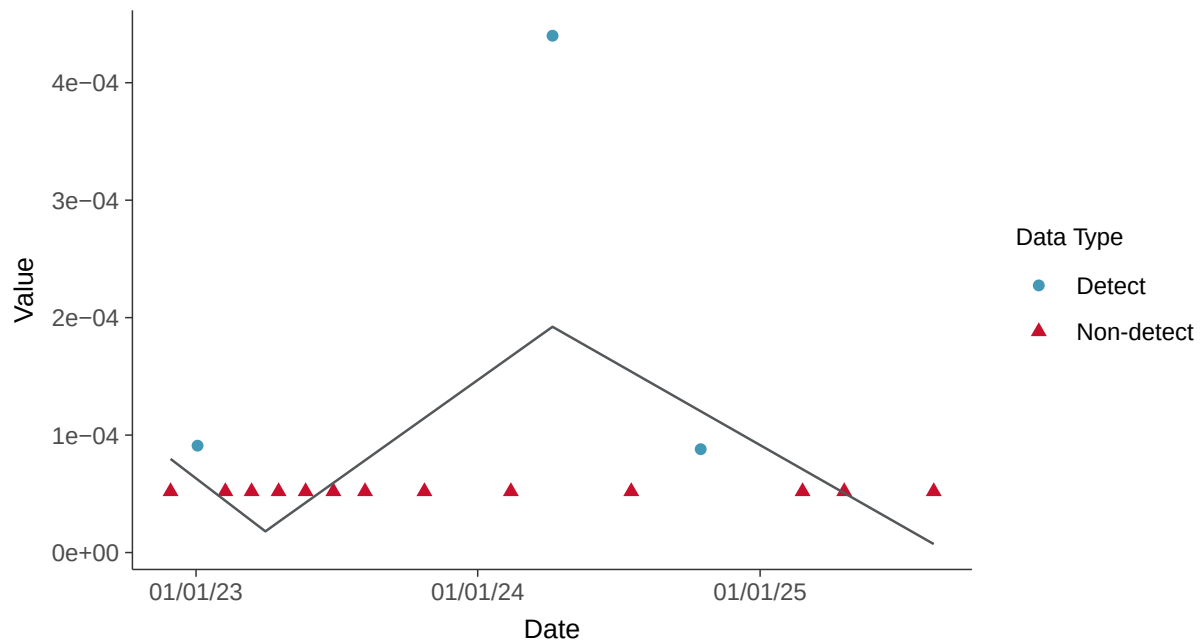


Trend Regression: Piecewise Linear-Linear

Beryllium, MW-11 (mg/L)

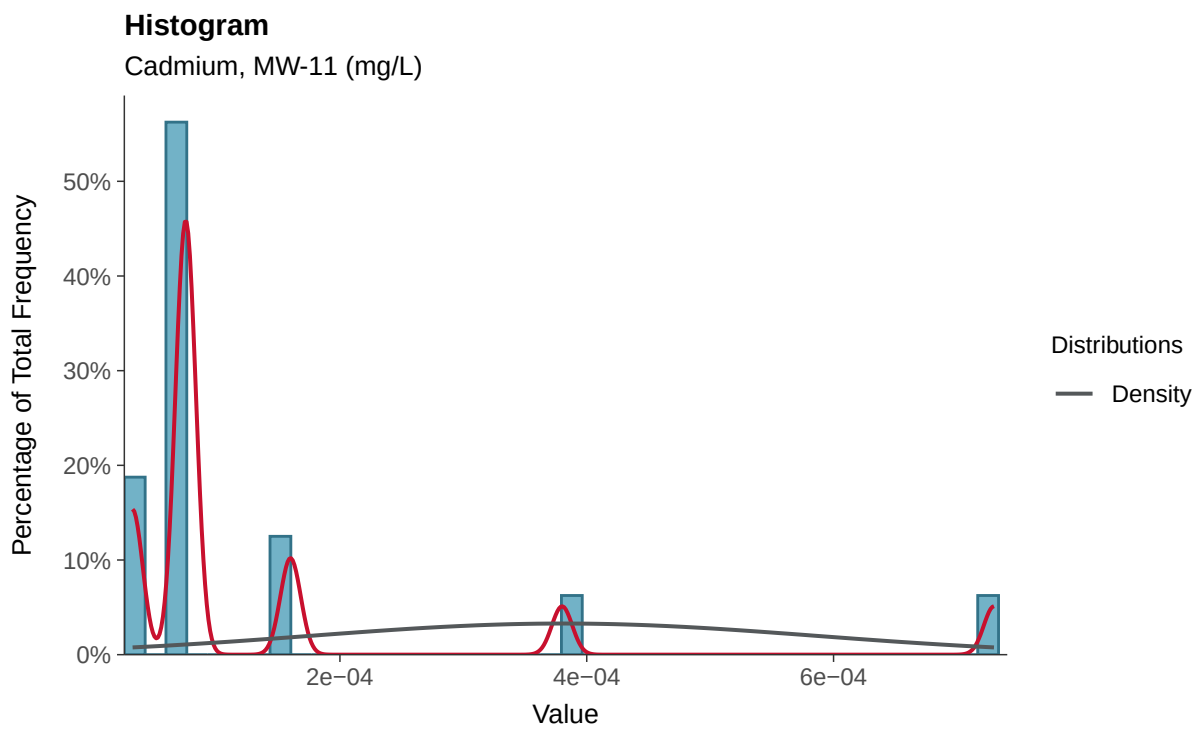
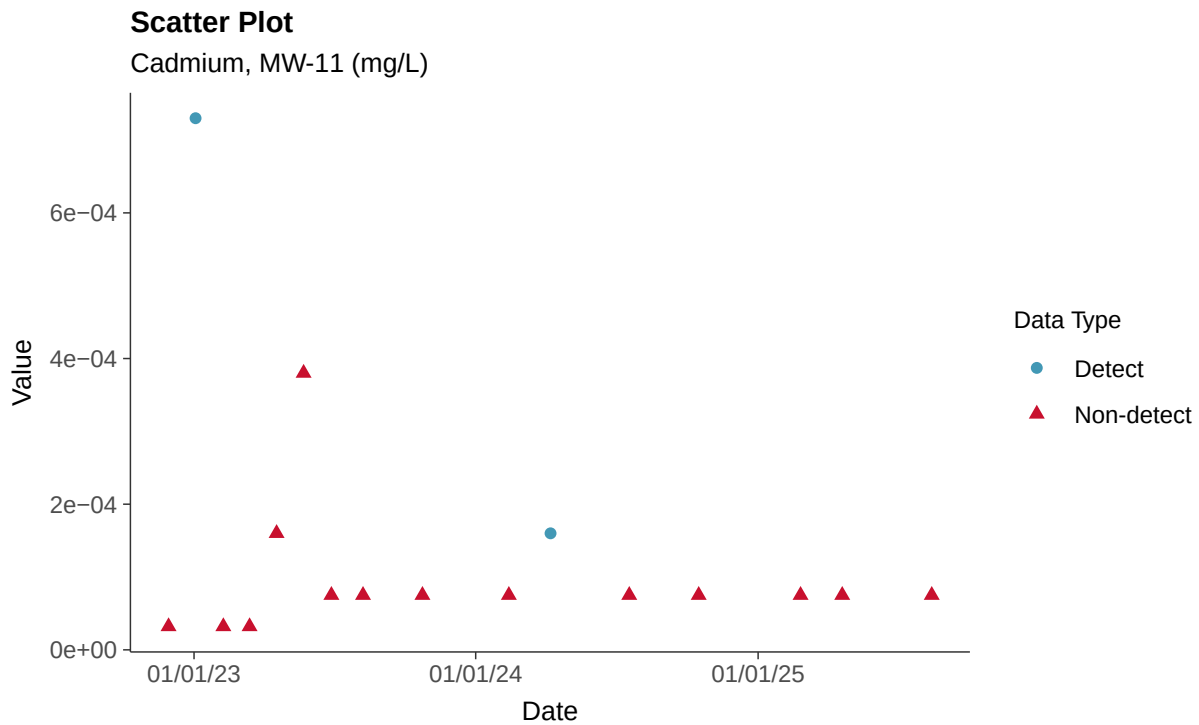


Beryllium, MW-11 (mg/L)



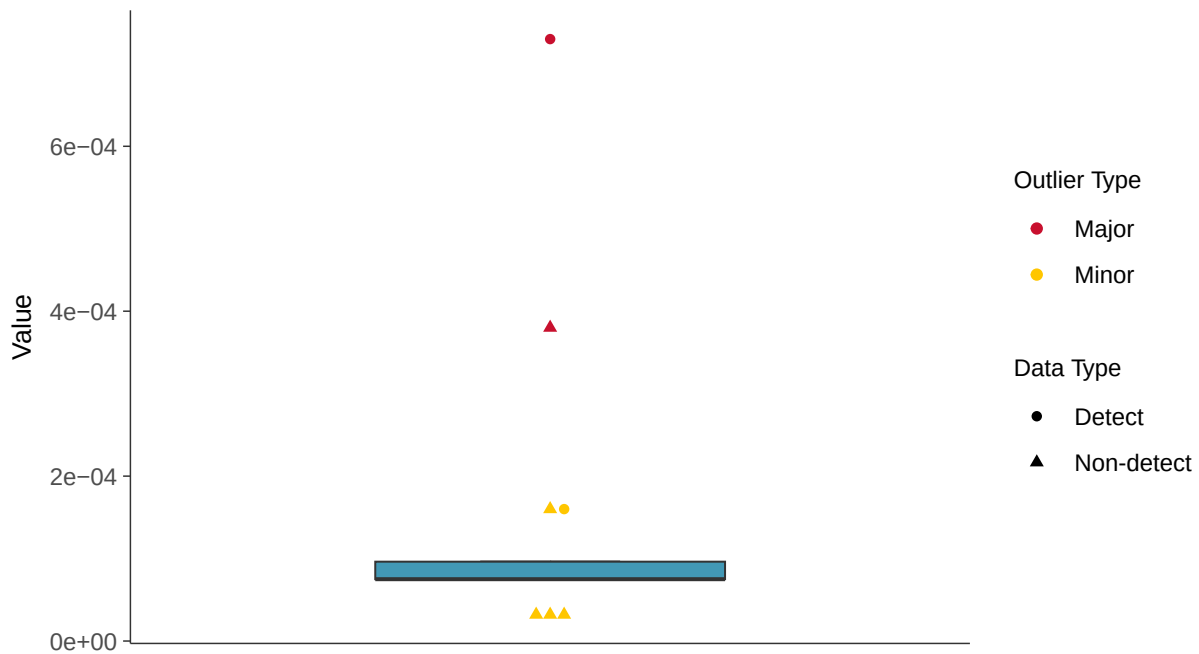
Appendix IV: Cadmium, MW-11

ID: 21_2_4_106



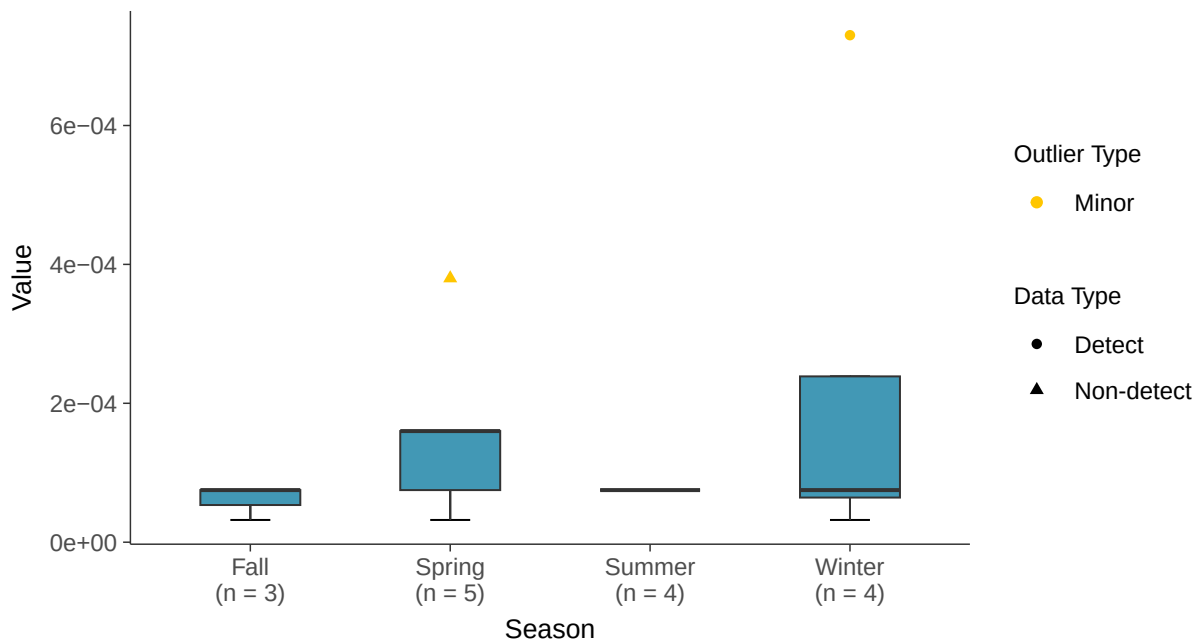
Boxplot

Cadmium, MW-11 (mg/L)



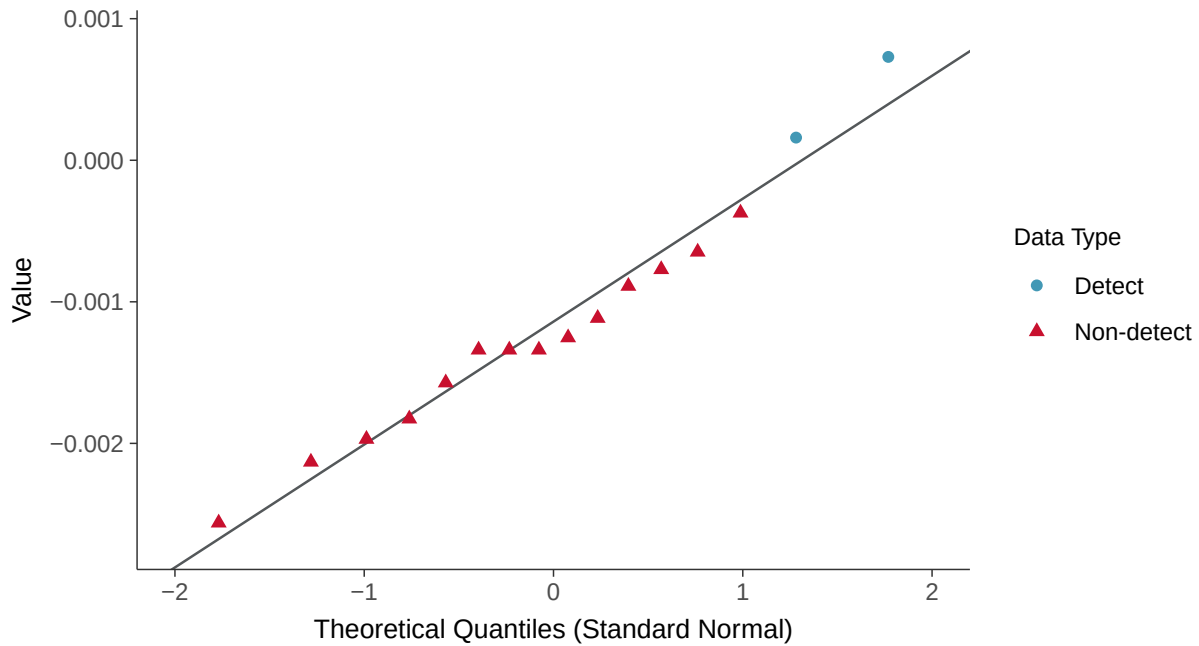
Boxplot by Season

Cadmium, MW-11 (mg/L)



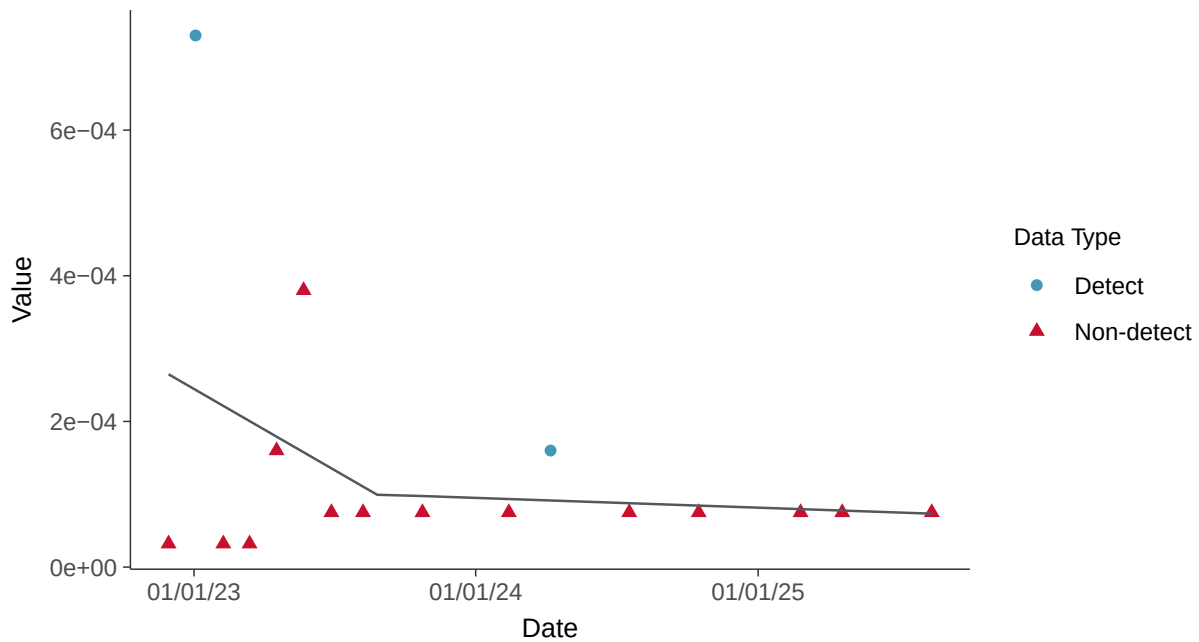
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-11 (mg/L)



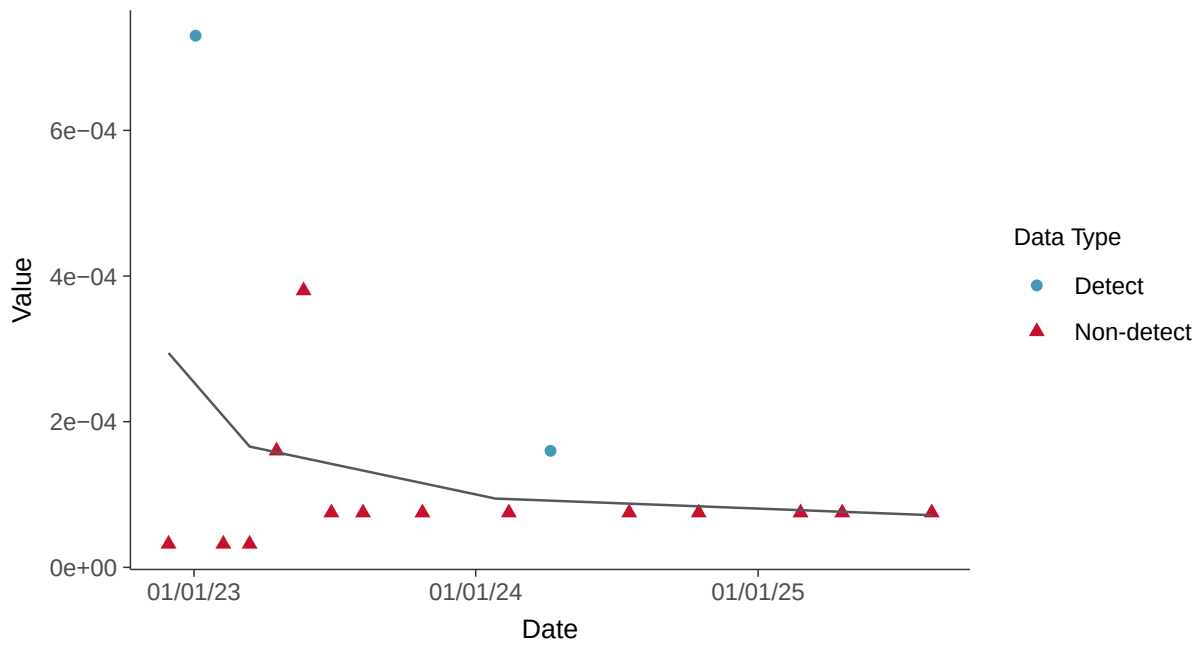
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-11 (mg/L)



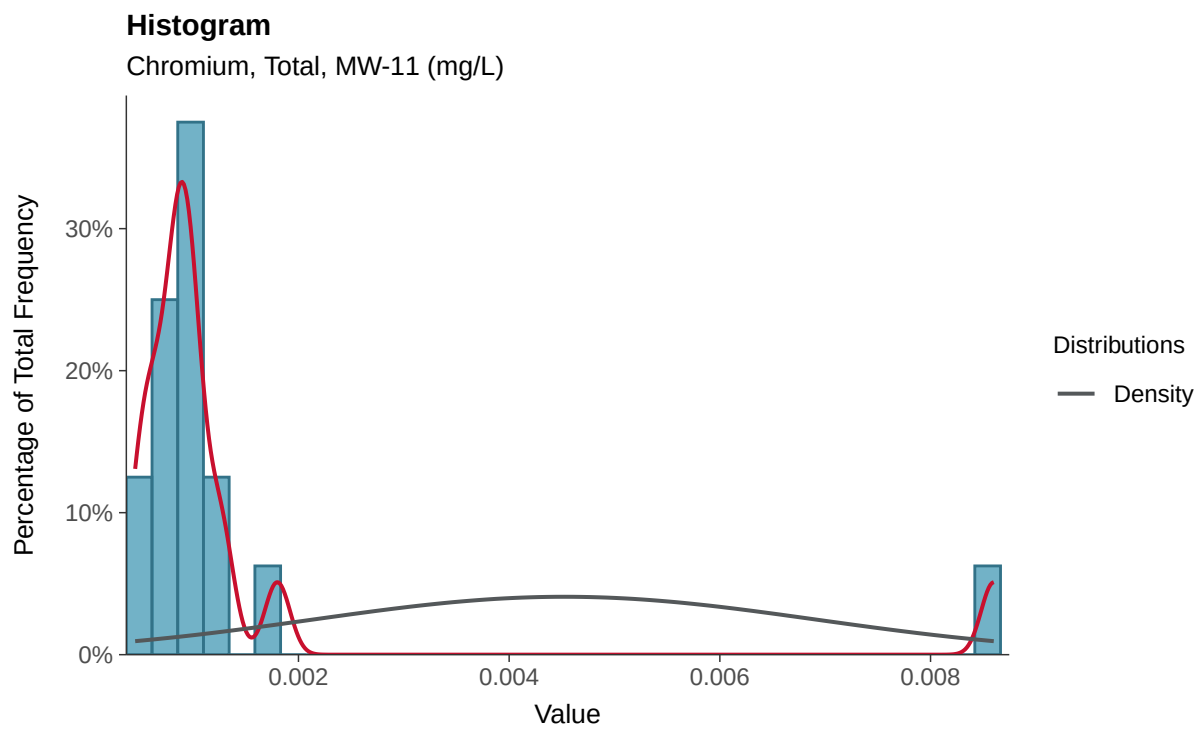
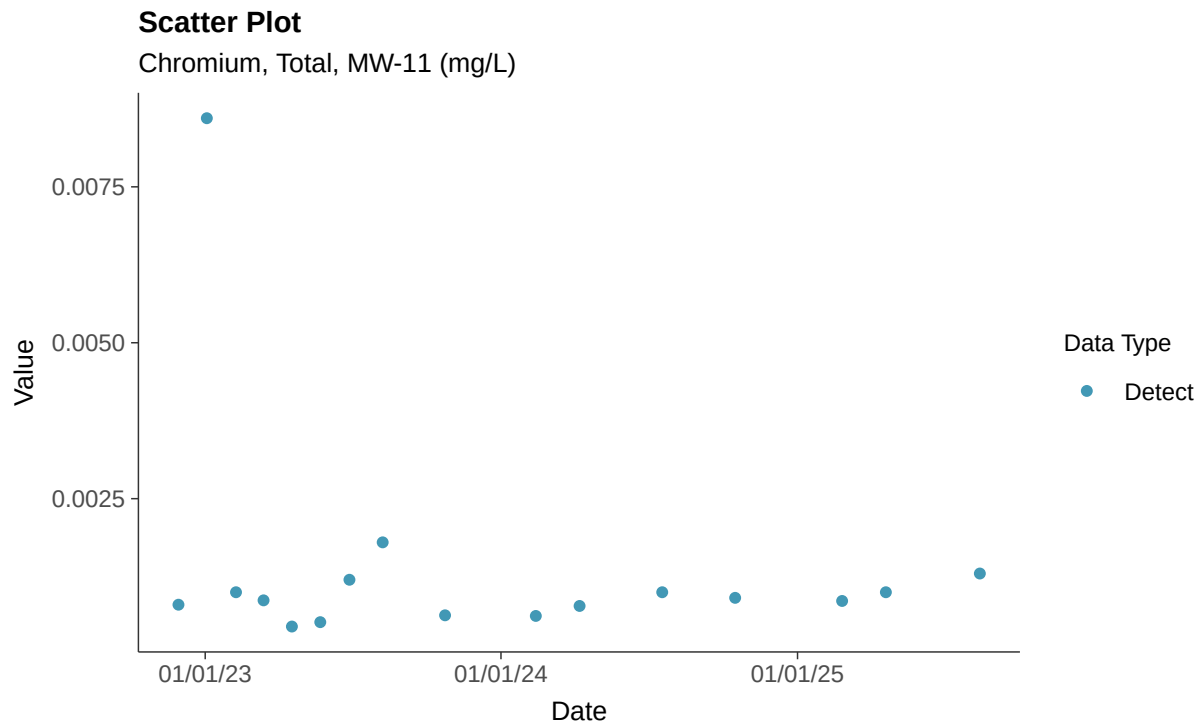


Trend Regression: Piecewise Linear-Linear-Linear
Cadmium, MW-11 (mg/L)



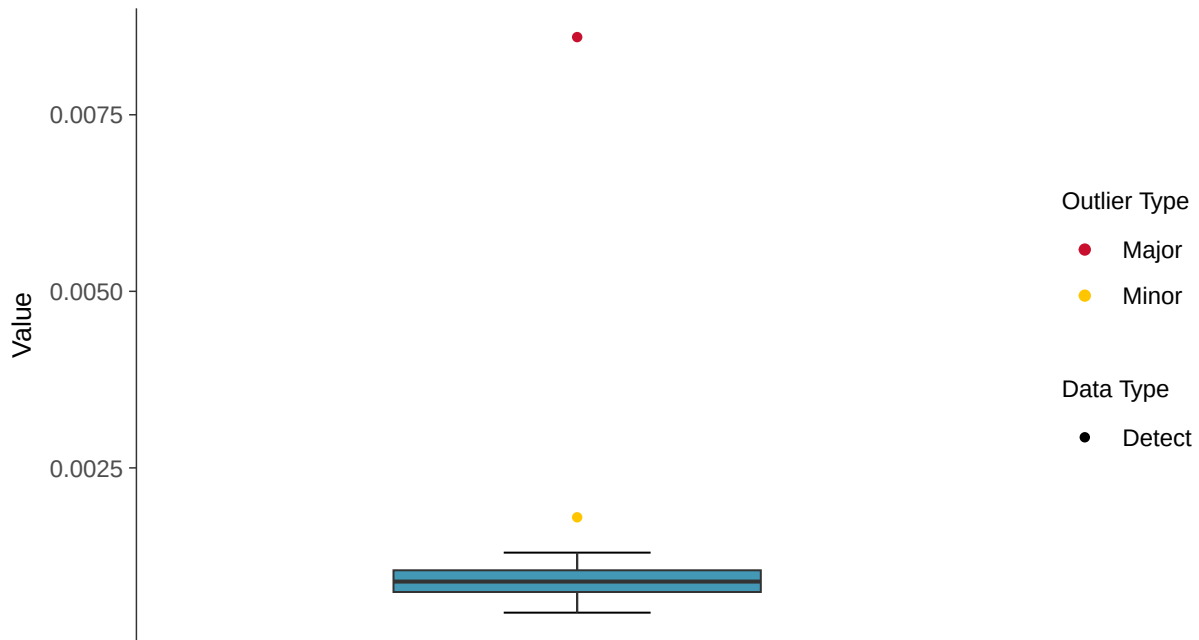
Appendix IV: Chromium, Total, MW-11

ID: 21_2_4_109



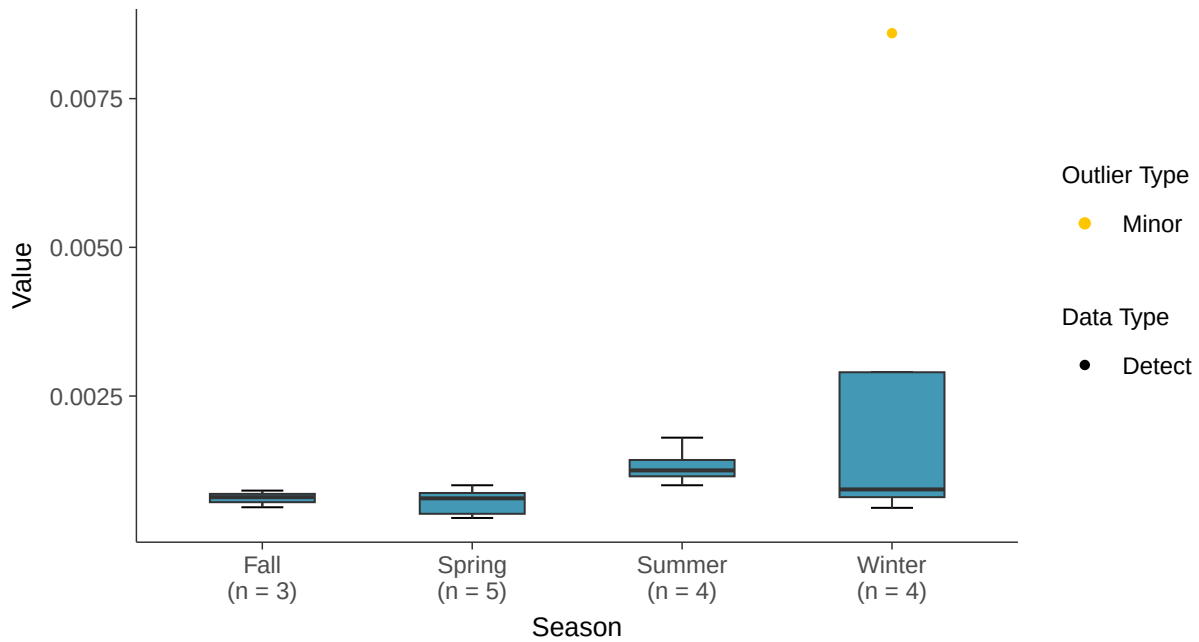
Boxplot

Chromium, Total, MW-11 (mg/L)



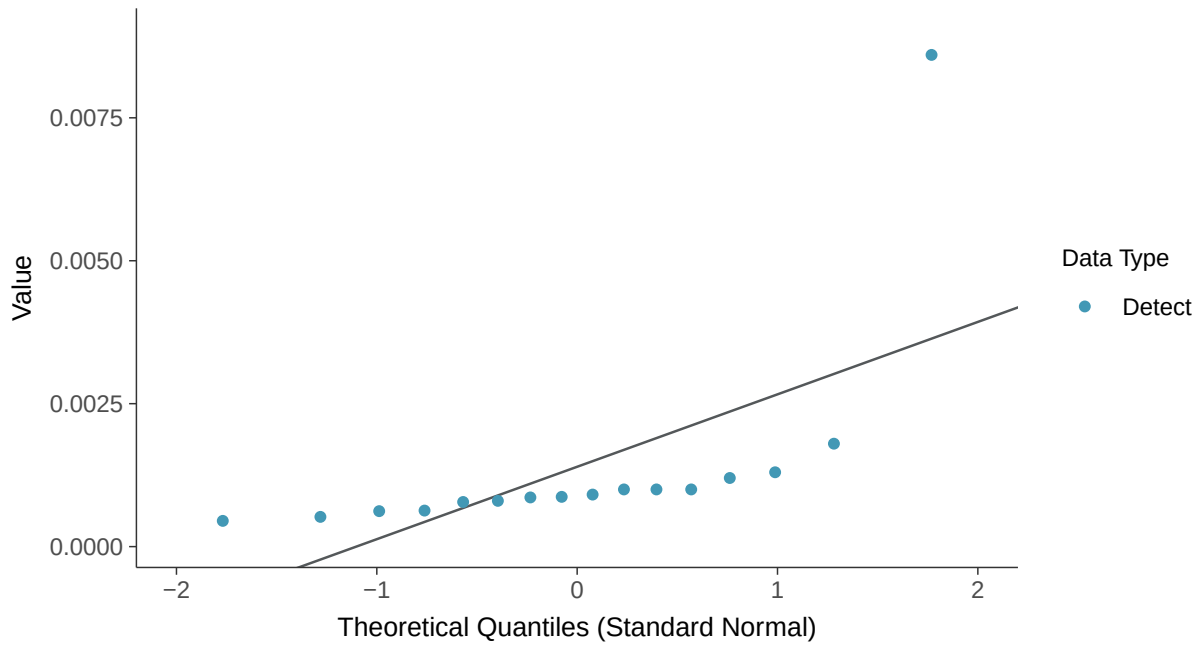
Boxplot by Season

Chromium, Total, MW-11 (mg/L)



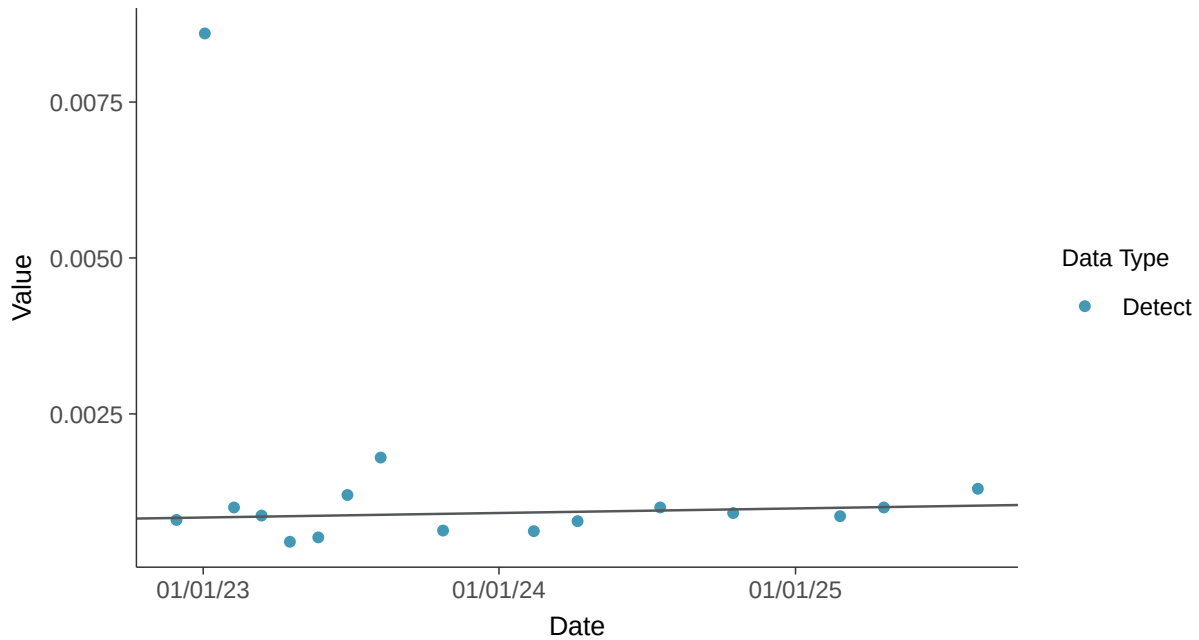
Normal Q-Q plot

Chromium, Total, MW-11 (mg/L)



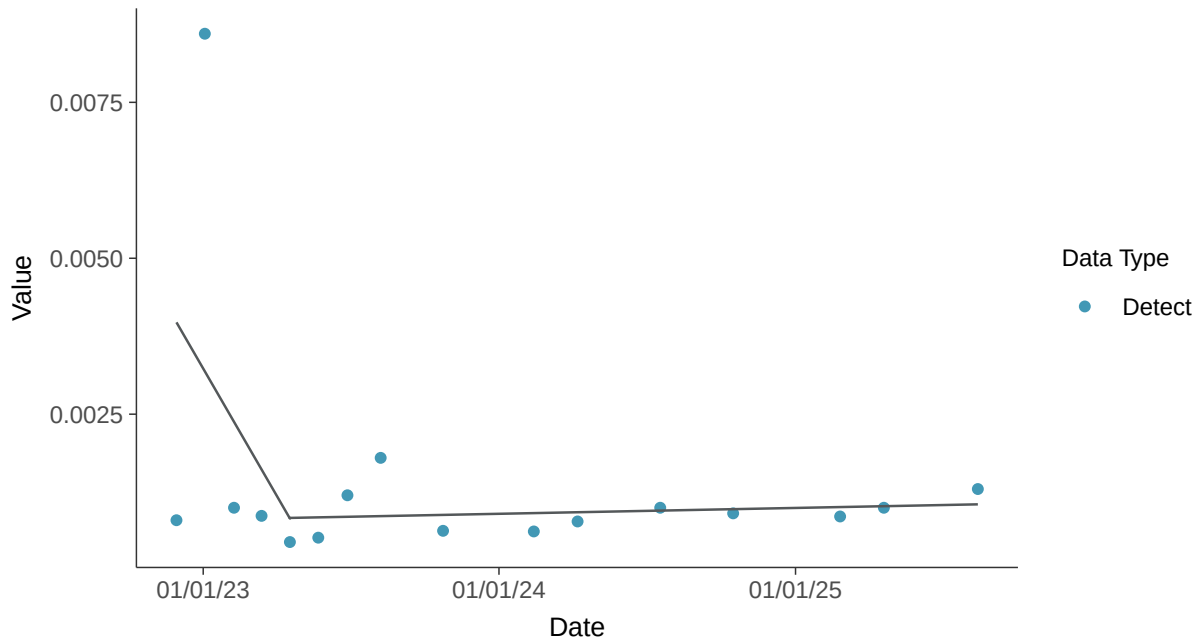
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chromium, Total, MW-11 (mg/L)



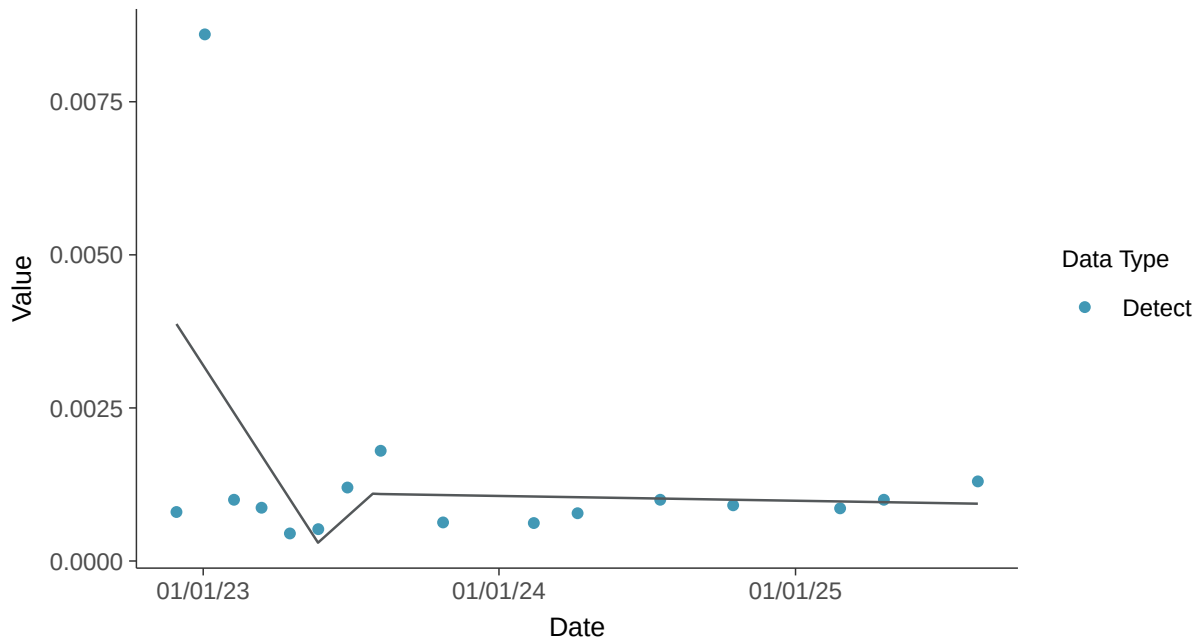
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-11 (mg/L)



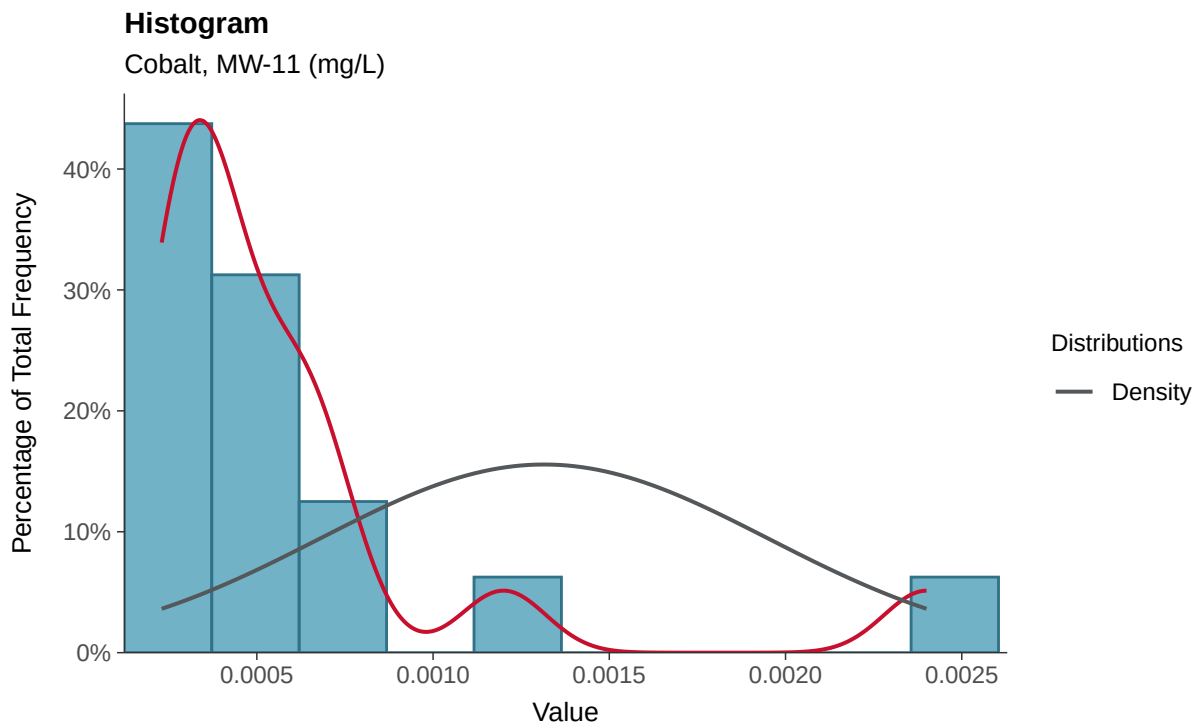
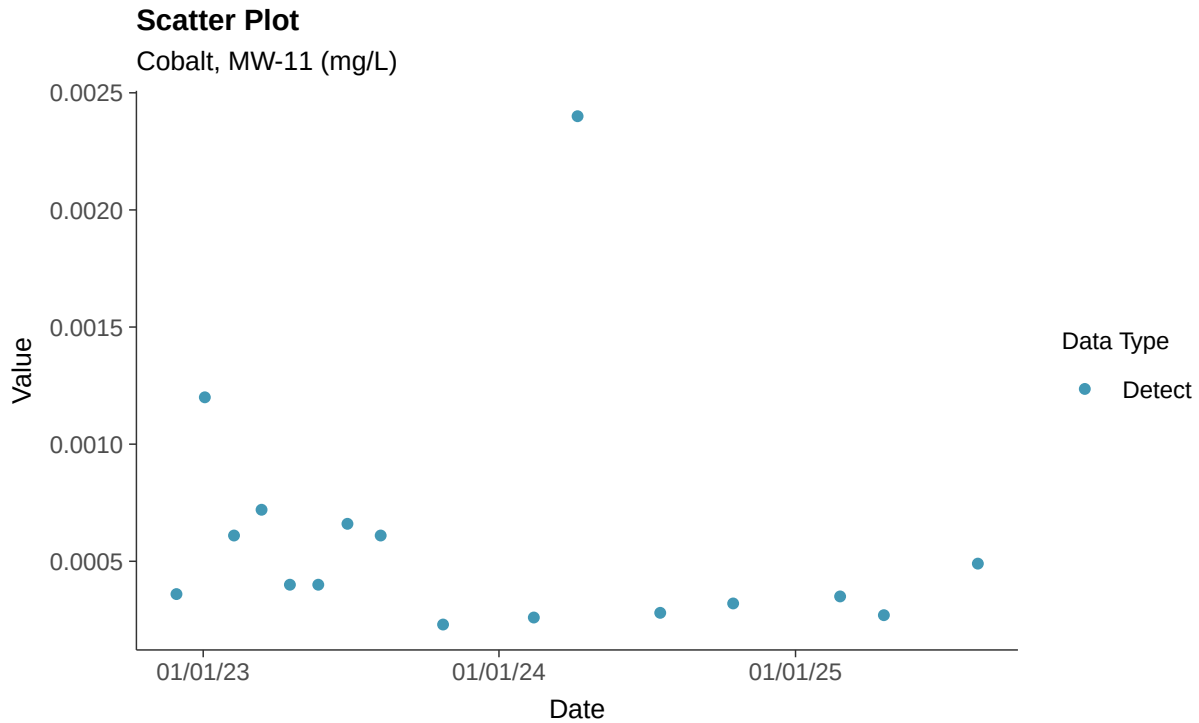
Trend Regression: Piecewise Linear-Linear-Linear

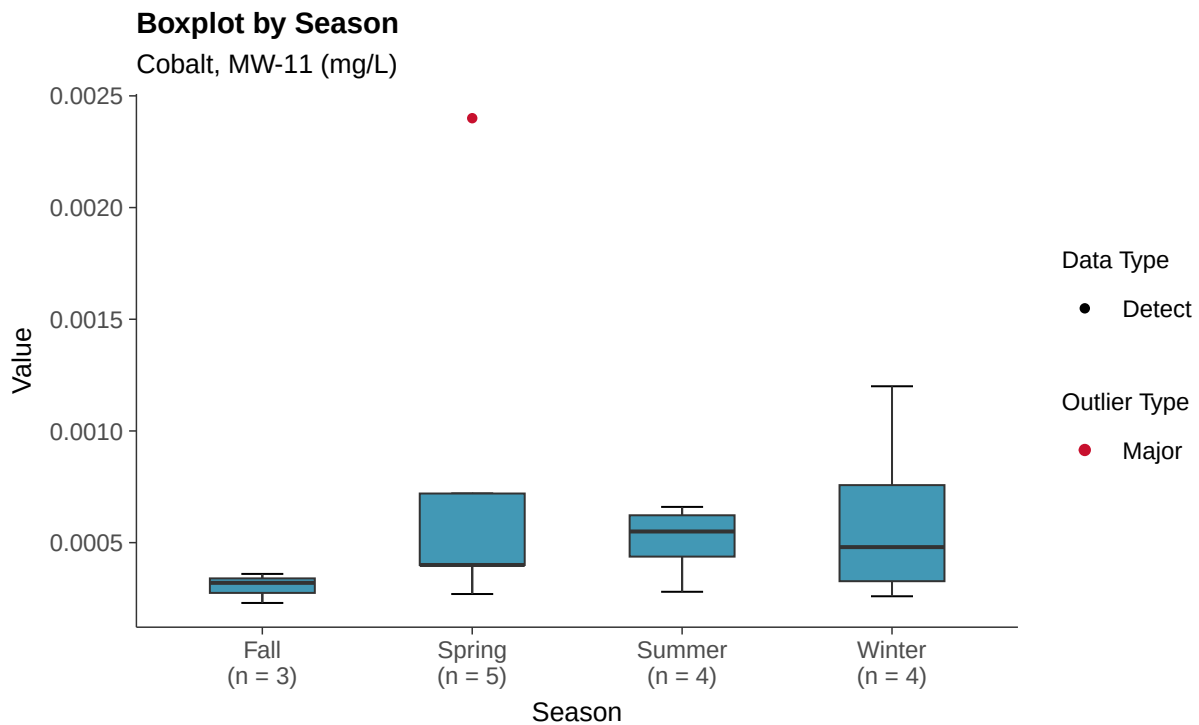
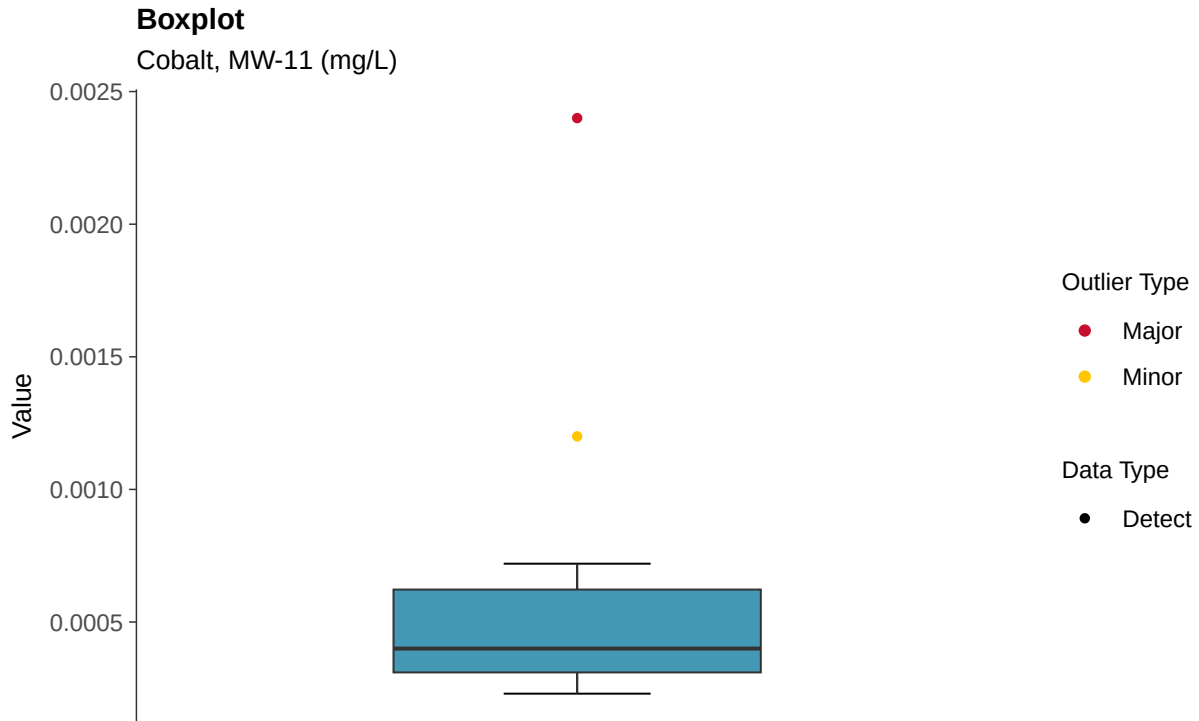
Chromium, Total, MW-11 (mg/L)



Appendix IV: Cobalt, MW-11

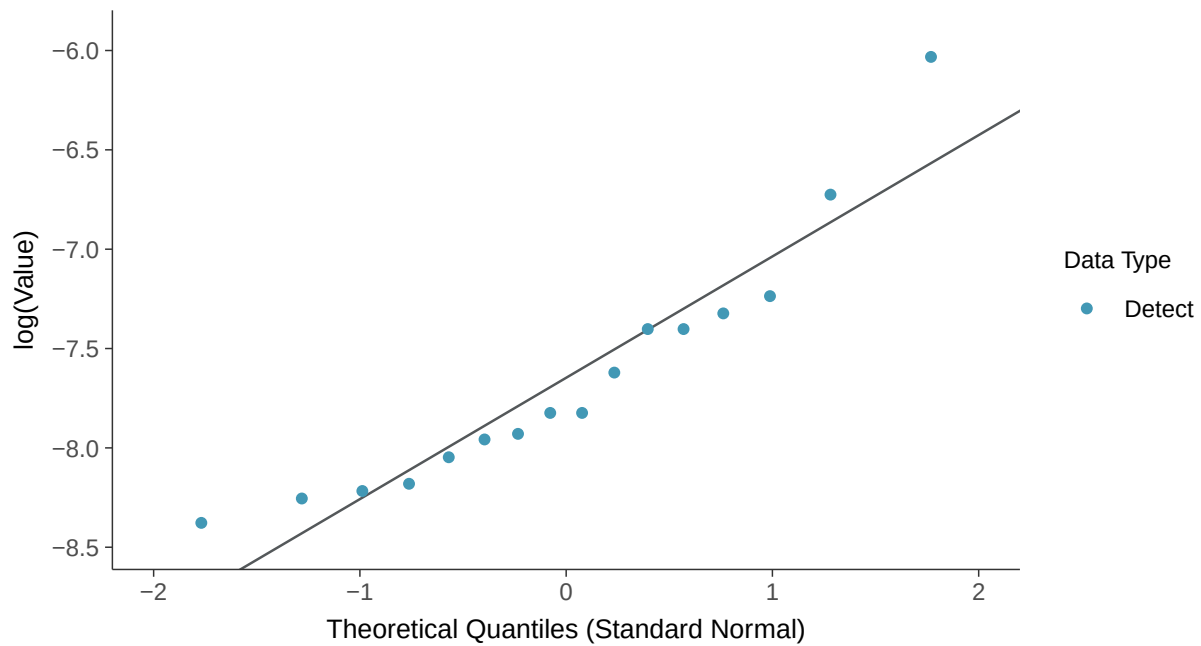
ID: 21_2_4_110





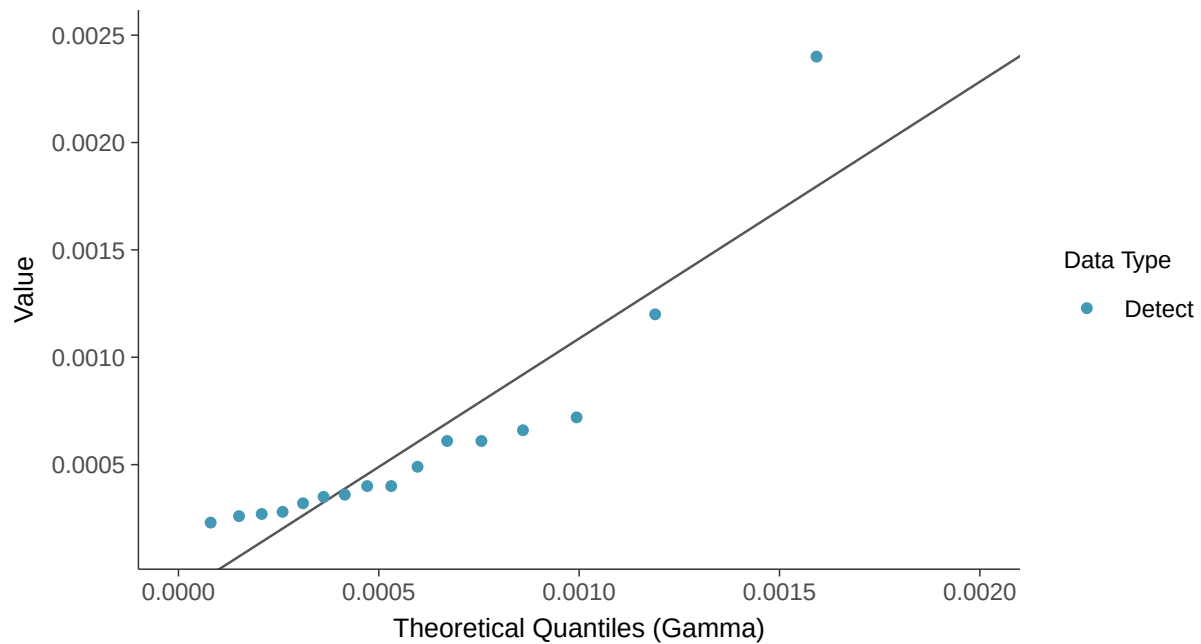
Lognormal Q-Q plot

Cobalt, MW-11 (mg/L)



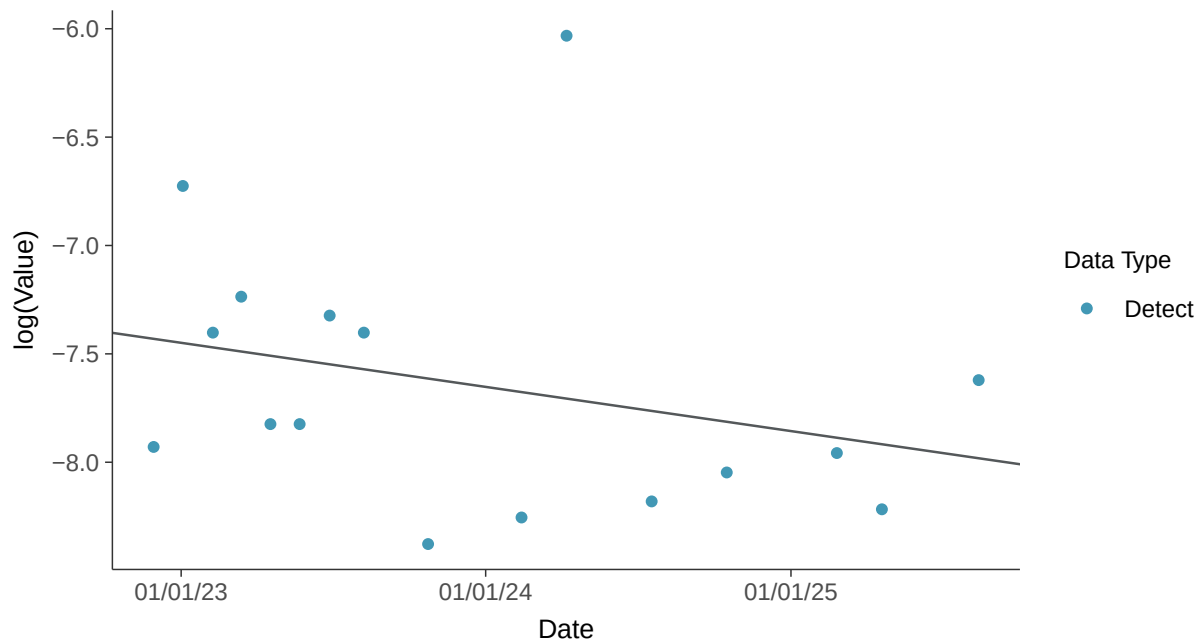
Gamma Q-Q plot

Cobalt, MW-11 (mg/L)



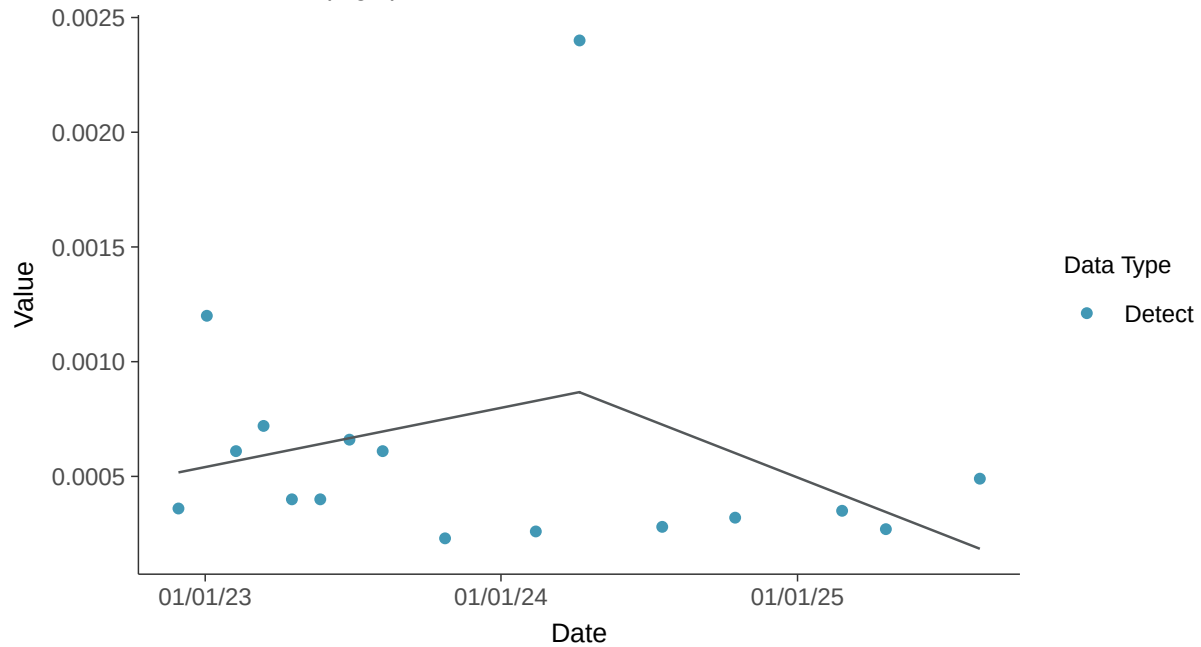
Trend Regression: Lognormal MLE

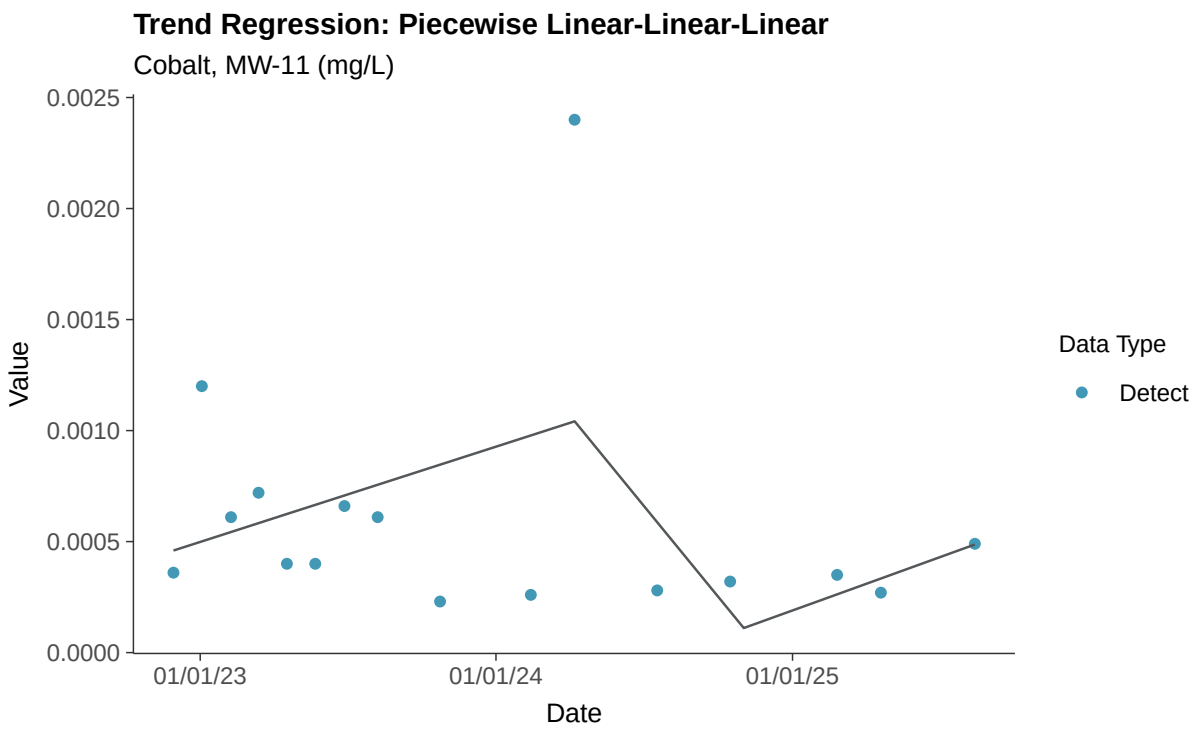
Cobalt, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cobalt, MW-11 (mg/L)



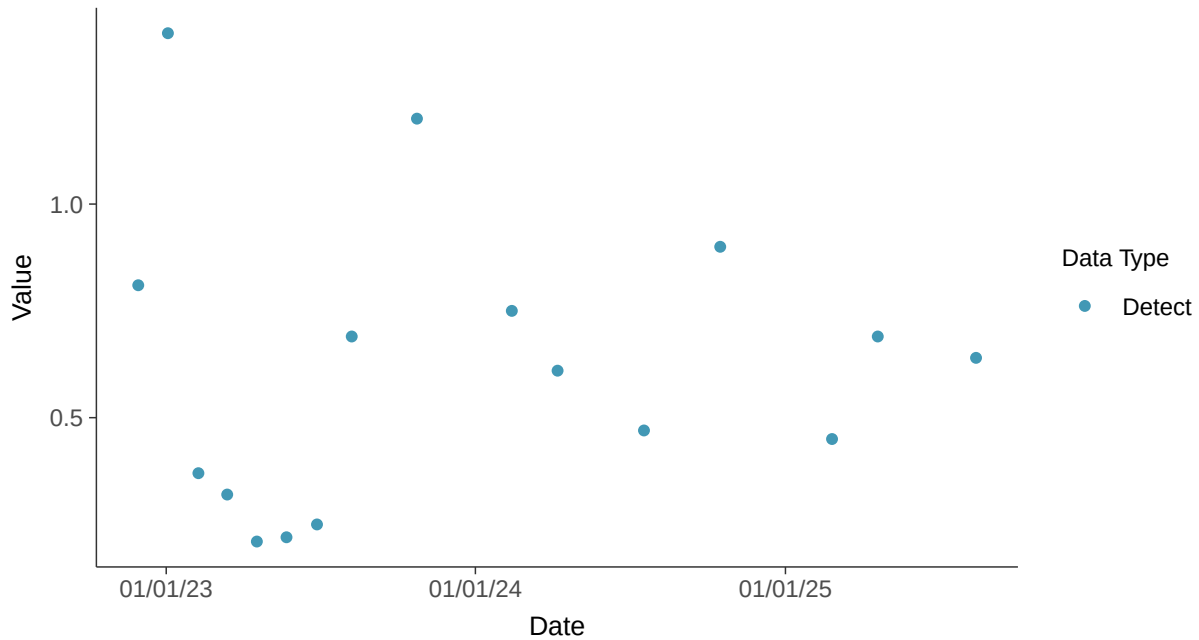


Appendix IV: Fluoride (App IV), MW-11

ID: 21_2_4_113

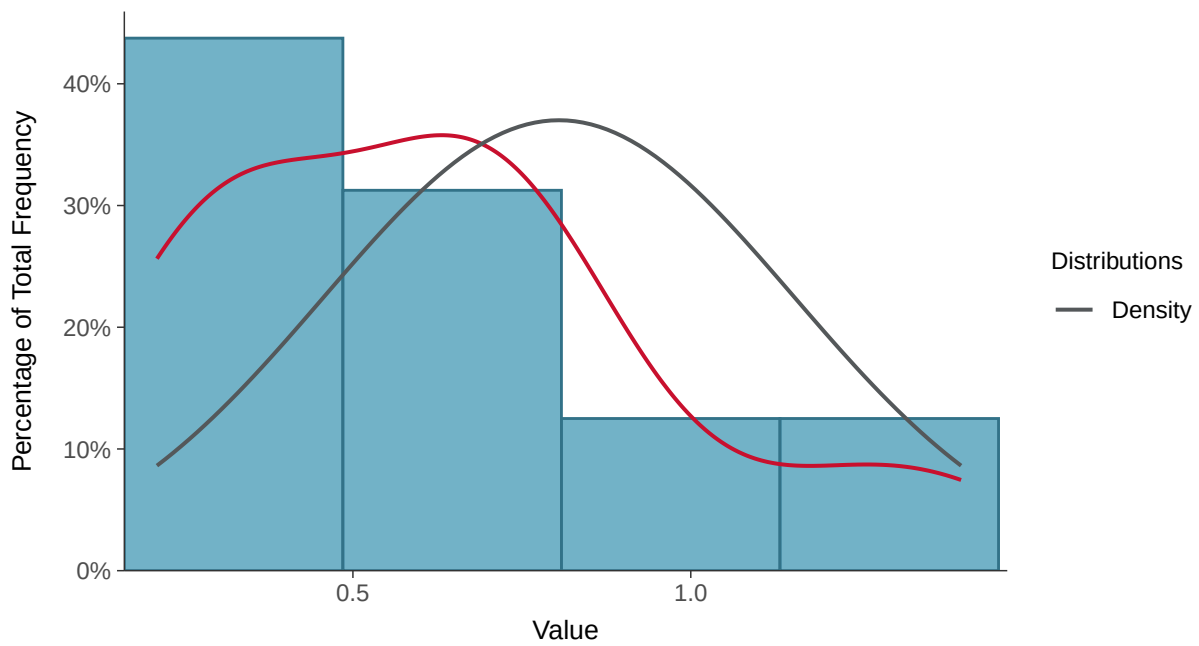
Scatter Plot

Fluoride (App IV), MW-11 (mg/L)



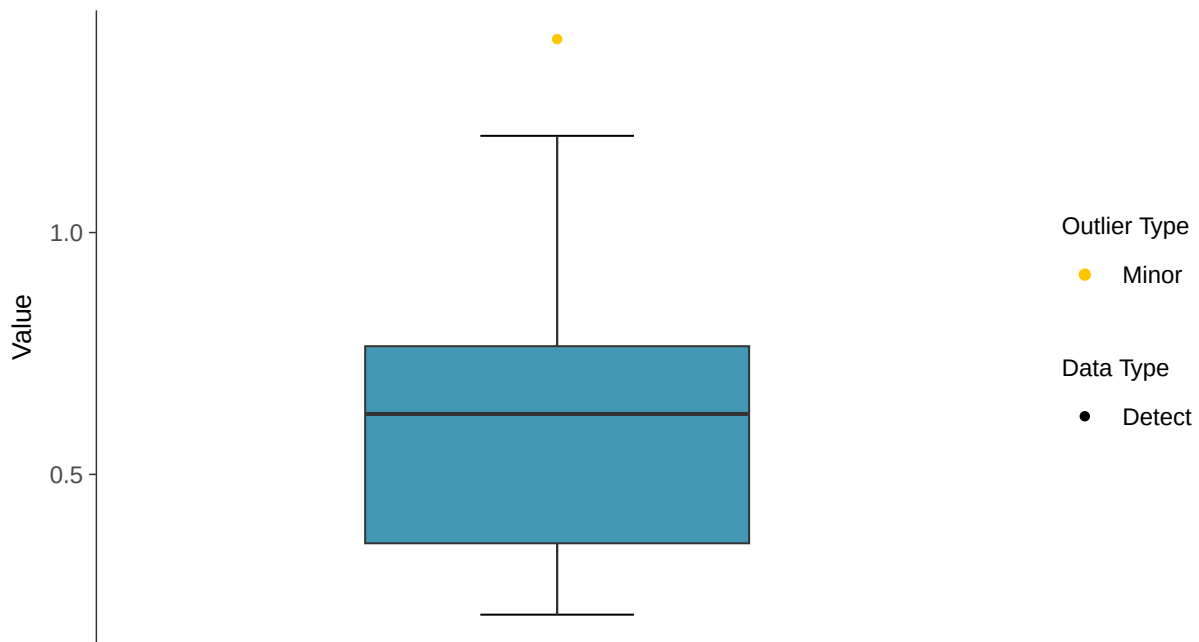
Histogram

Fluoride (App IV), MW-11 (mg/L)



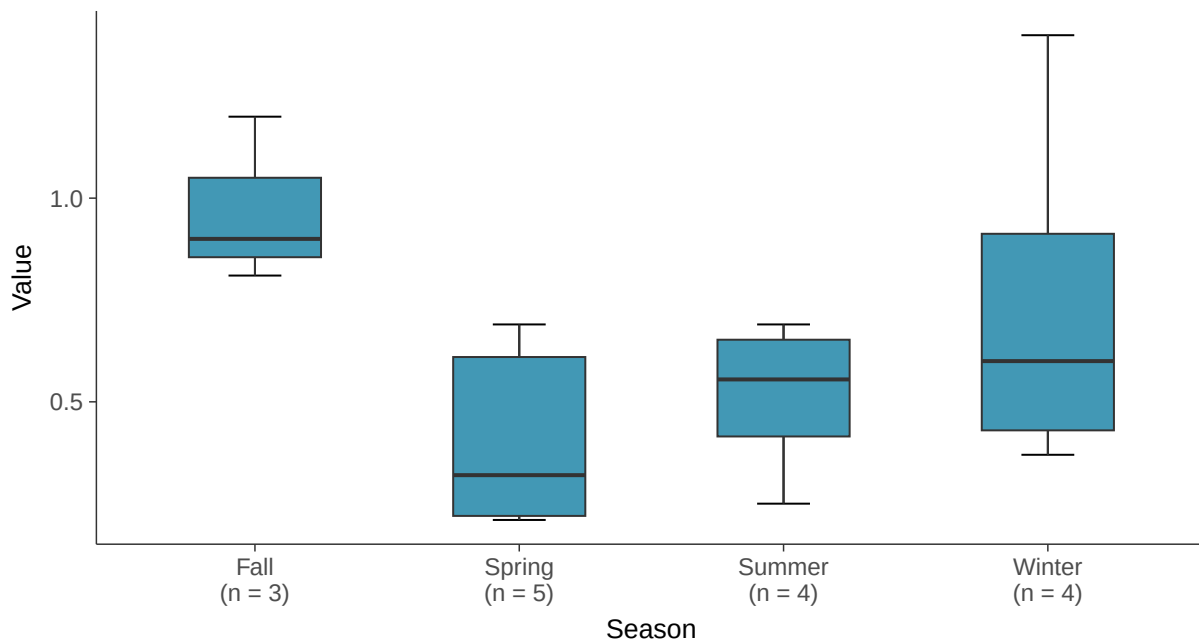
Boxplot

Fluoride (App IV), MW-11 (mg/L)



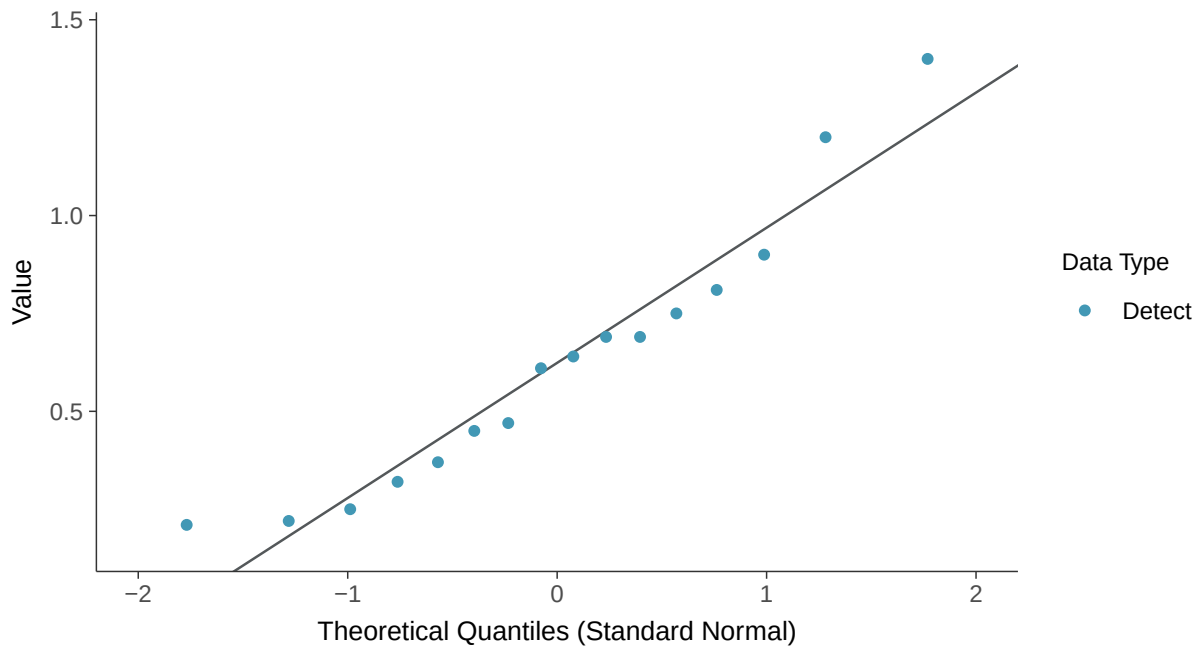
Boxplot by Season

Fluoride (App IV), MW-11 (mg/L)



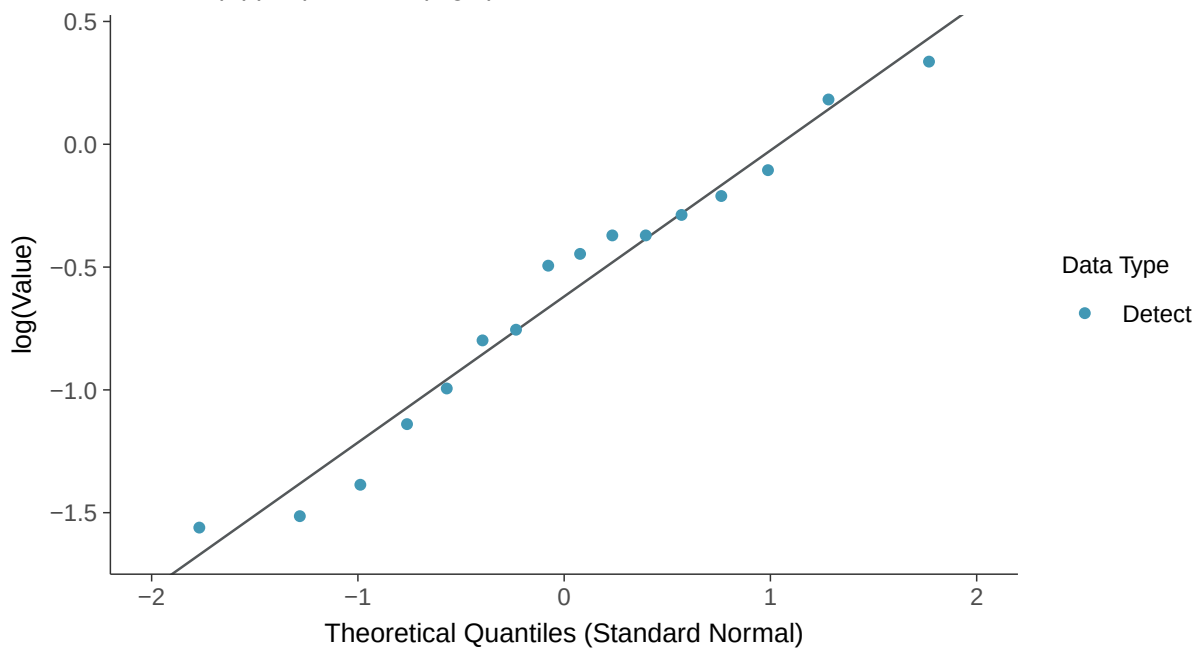
Normal Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



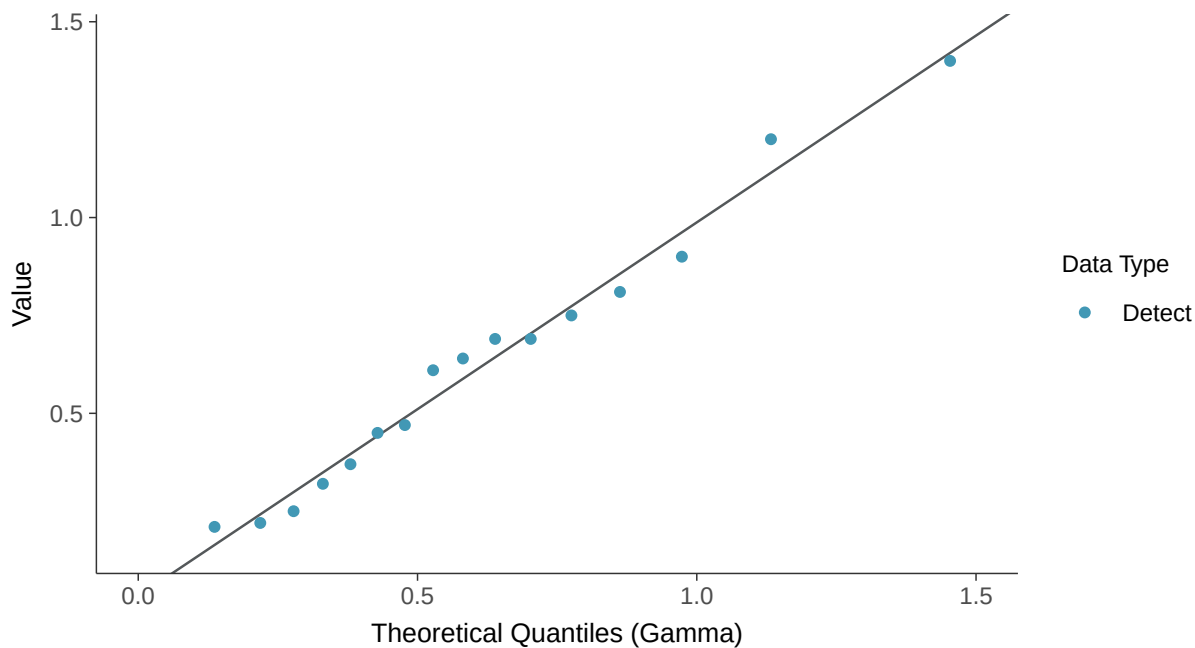
Lognormal Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



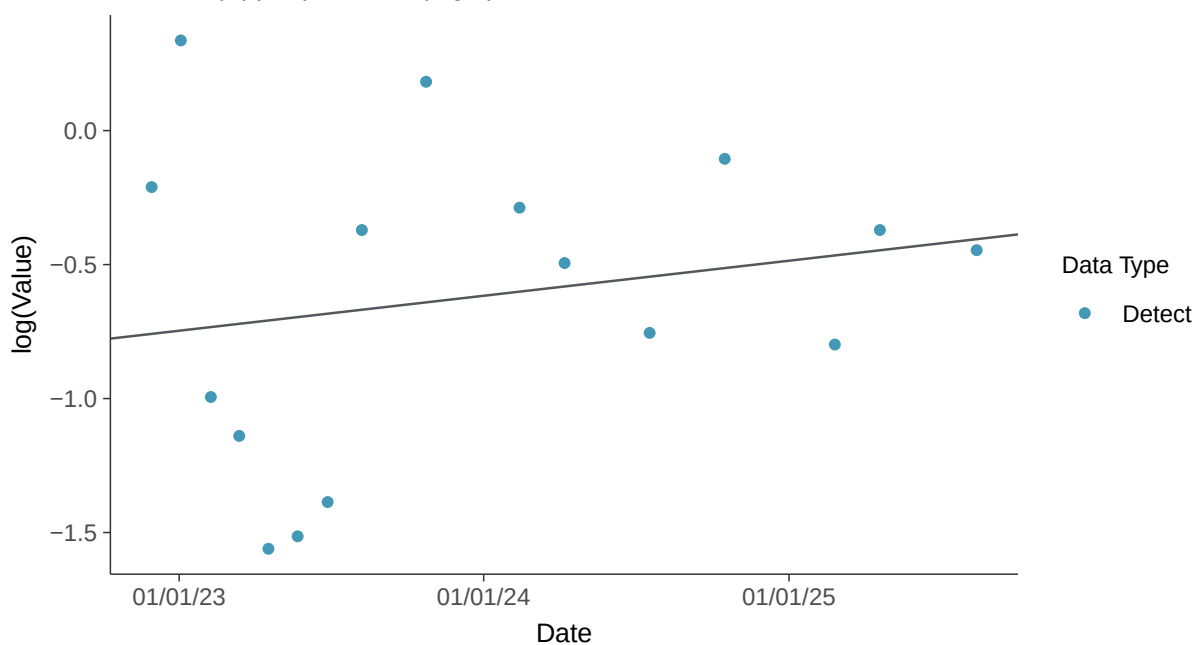
Gamma Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



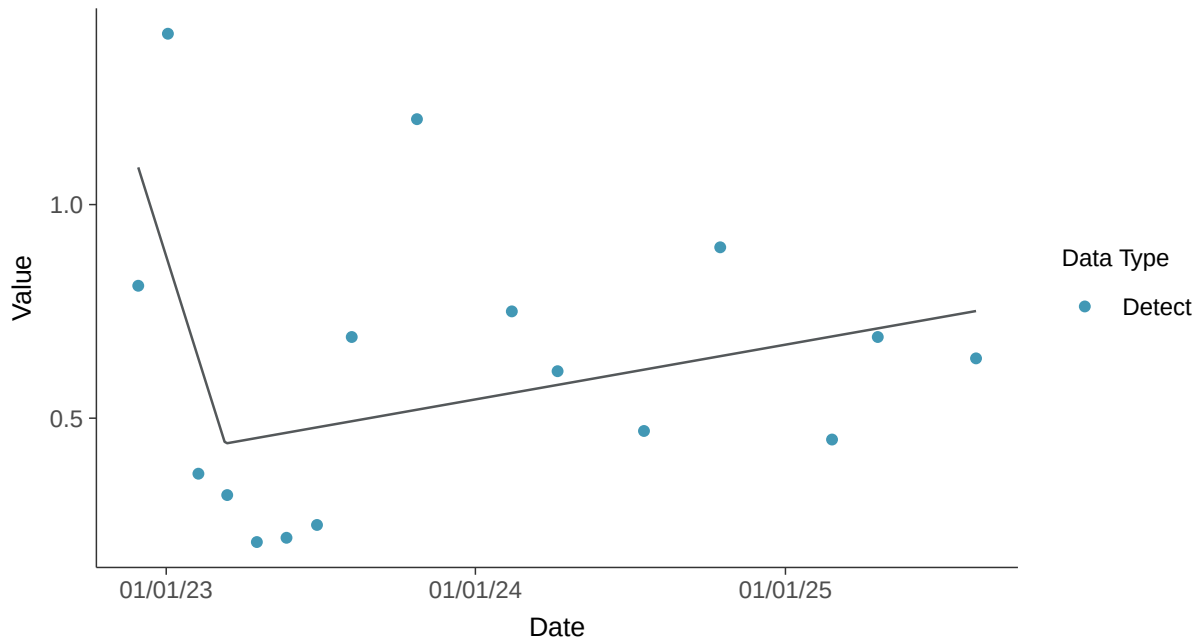
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-11 (mg/L)



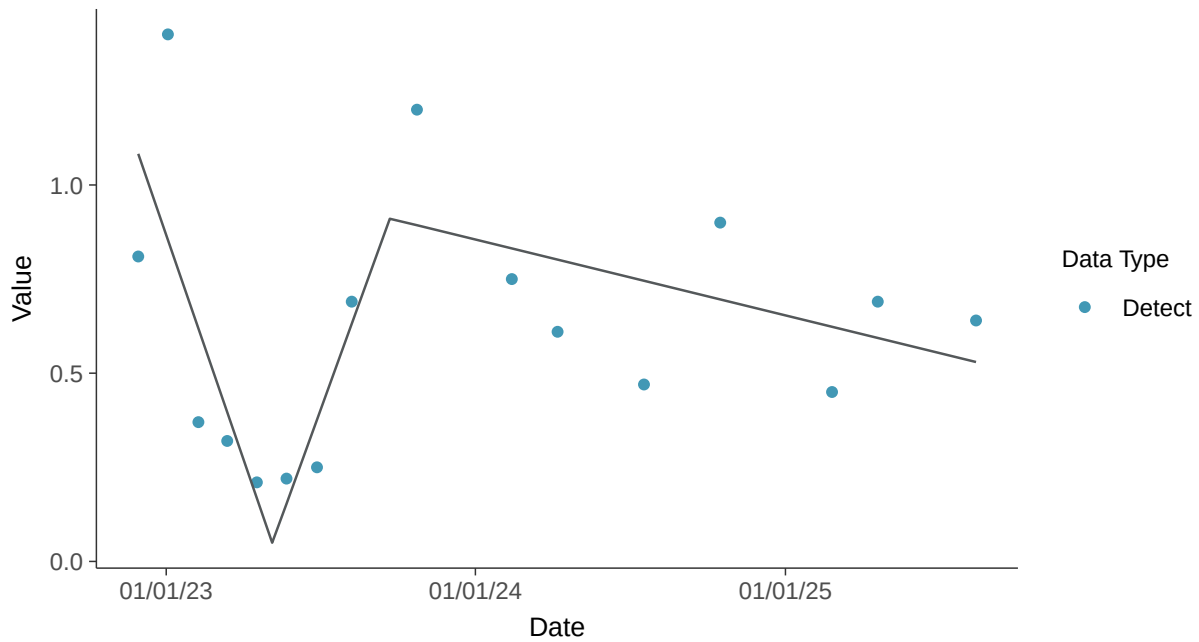
Trend Regression: Piecewise Linear-Linear

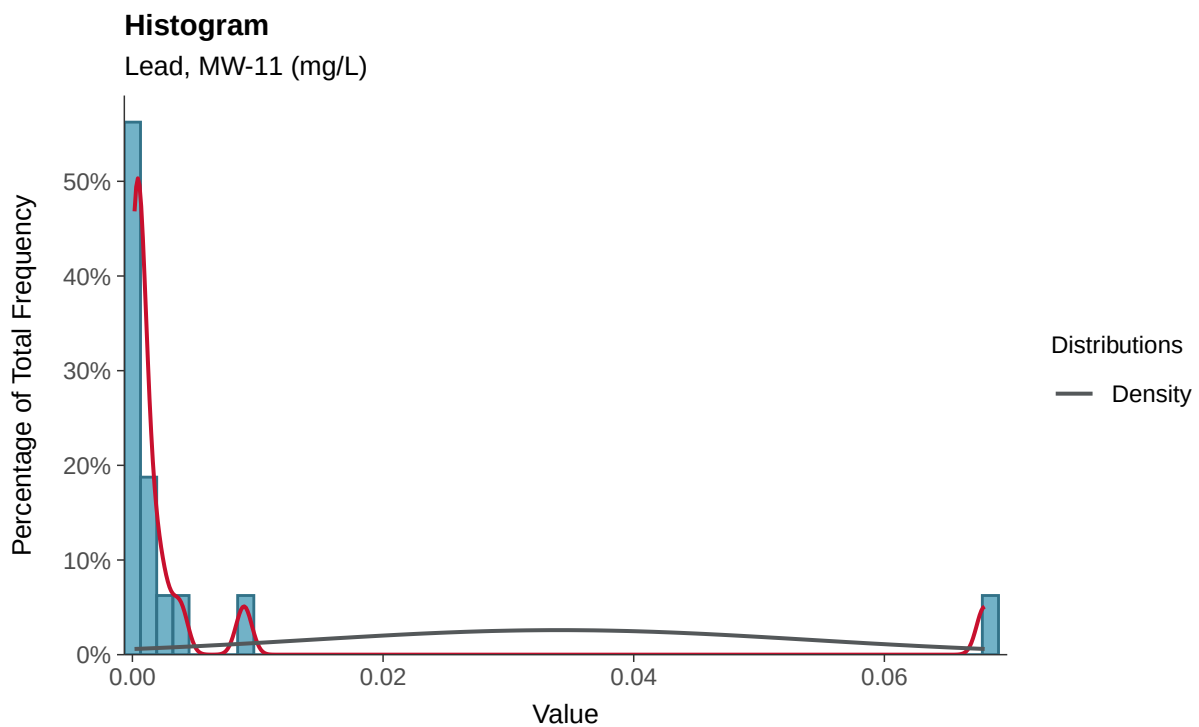
Fluoride (App IV), MW-11 (mg/L)

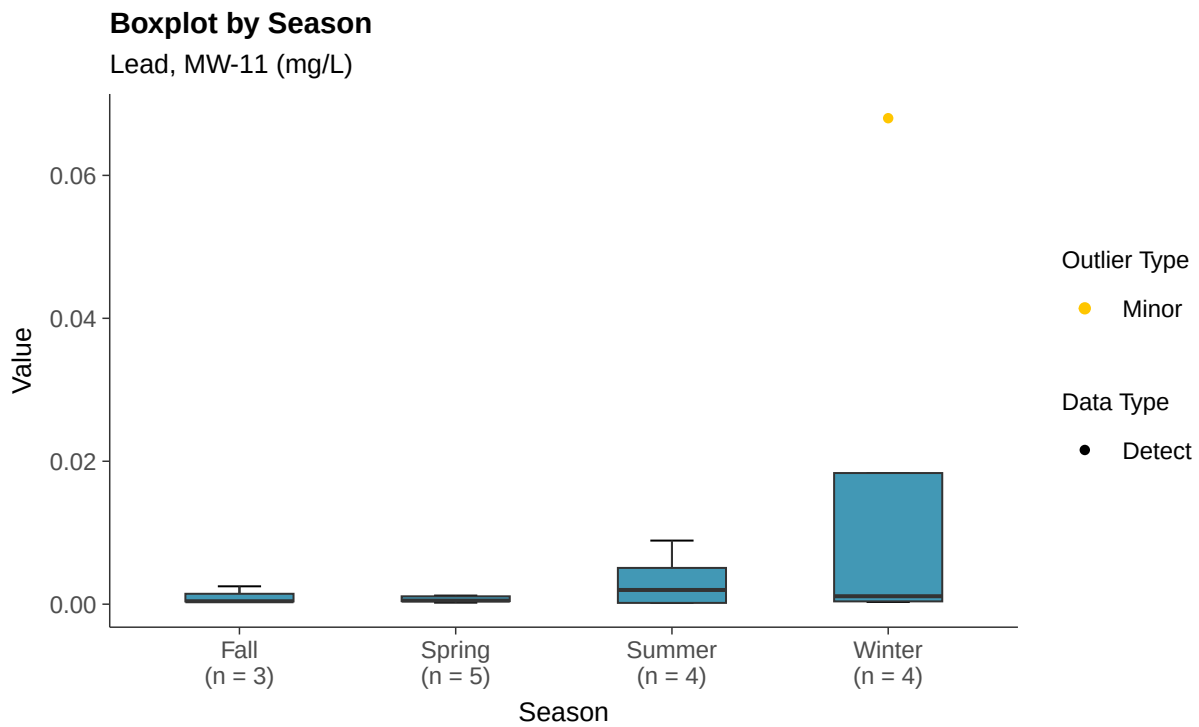
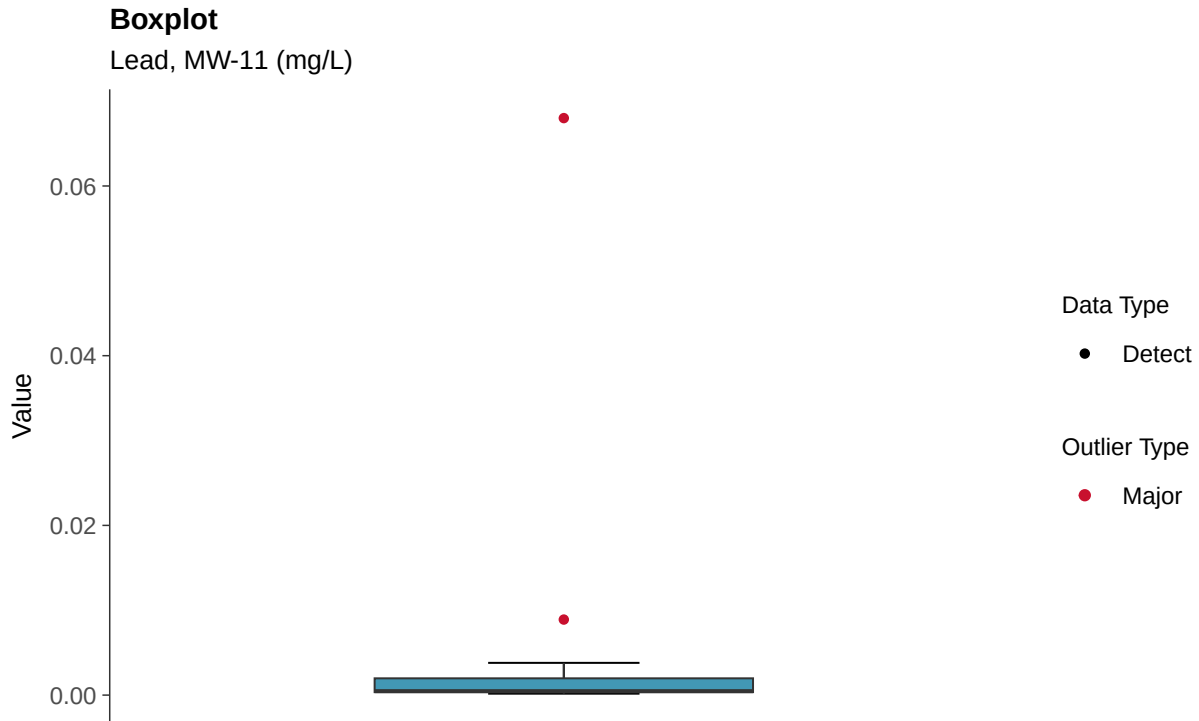


Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-11 (mg/L)

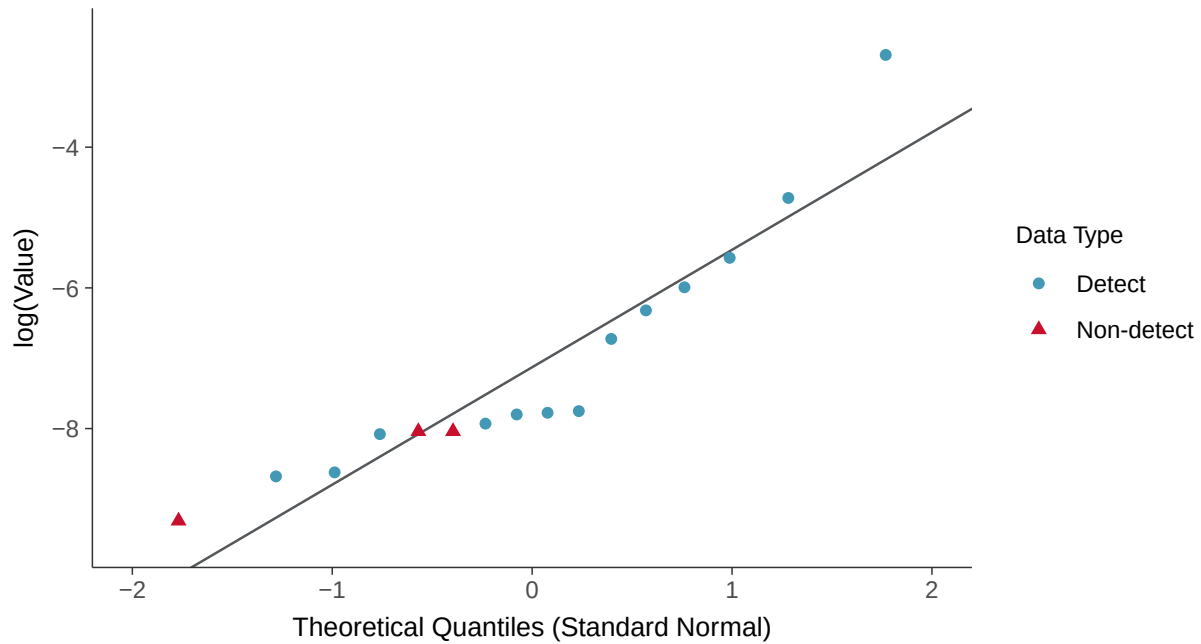






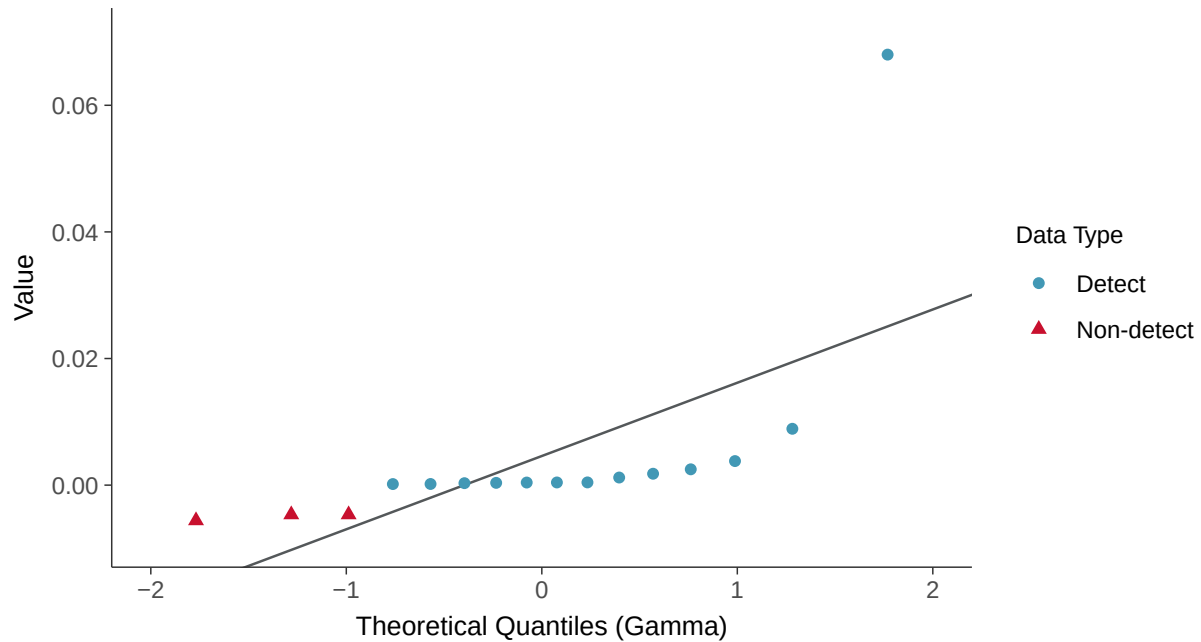
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-11 (mg/L)

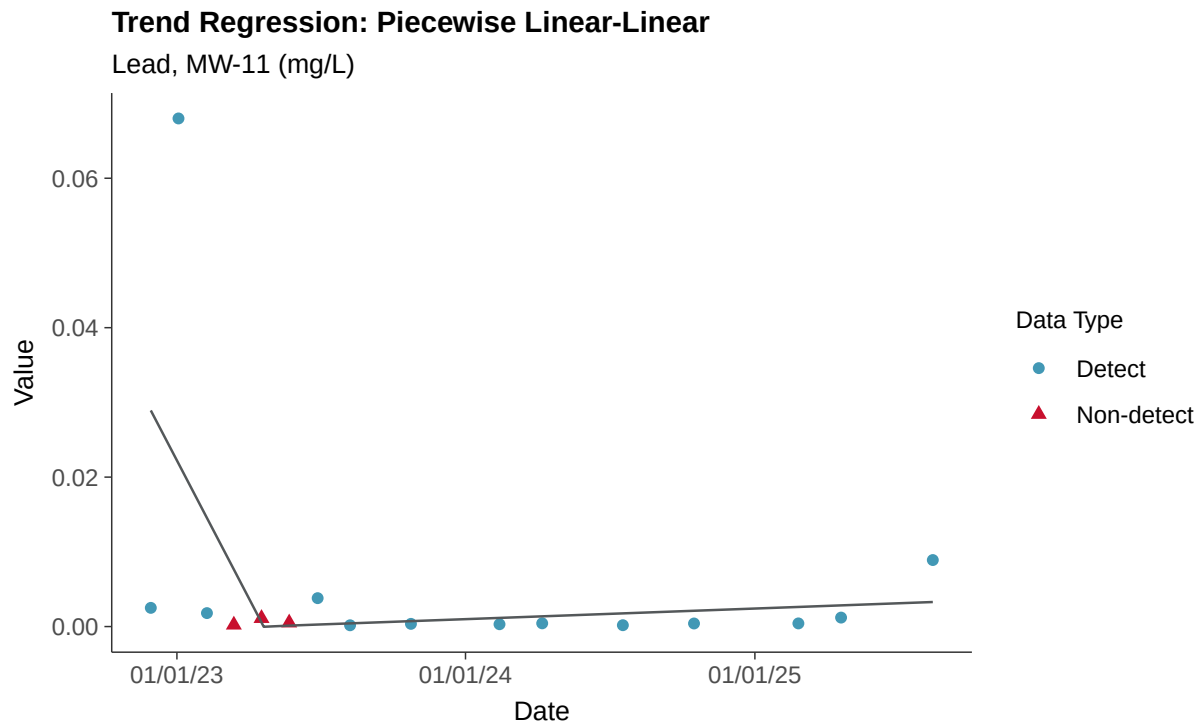


Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-11 (mg/L)



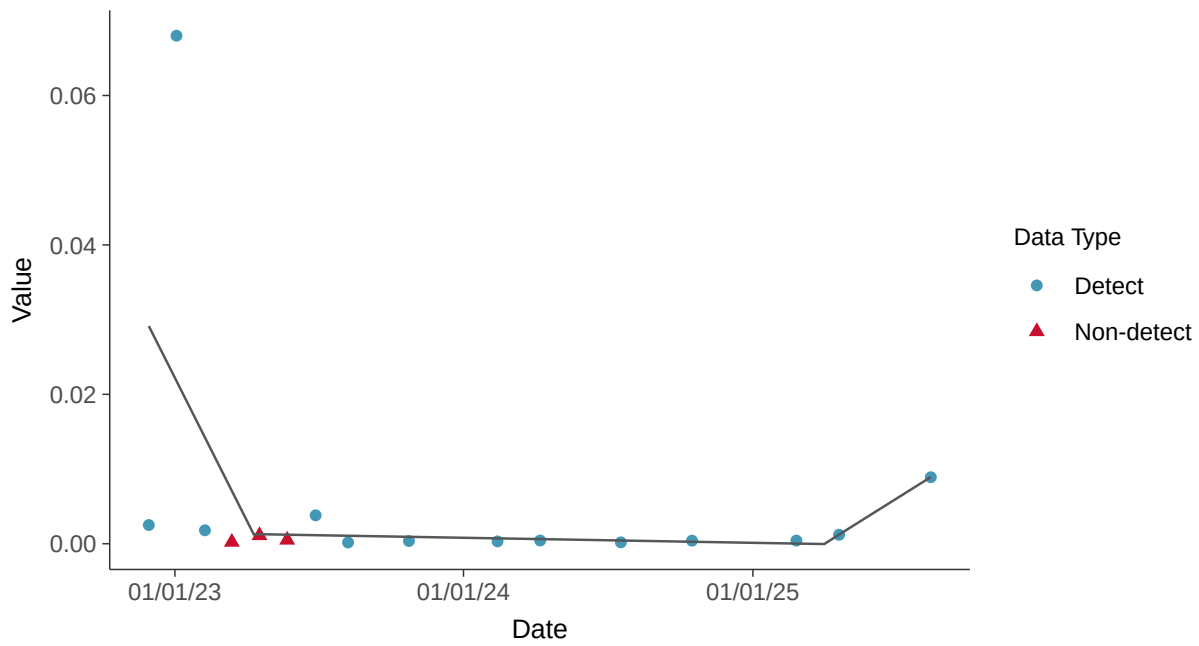
Lead, MW-11 (mg/L)





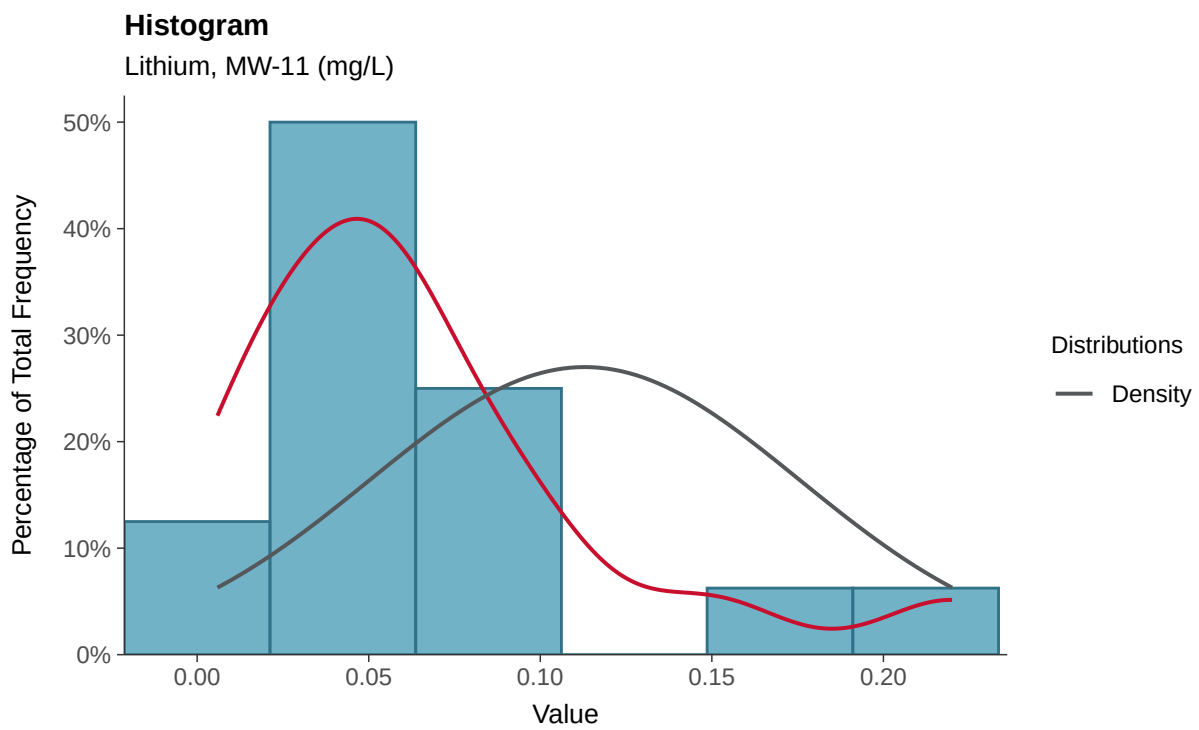
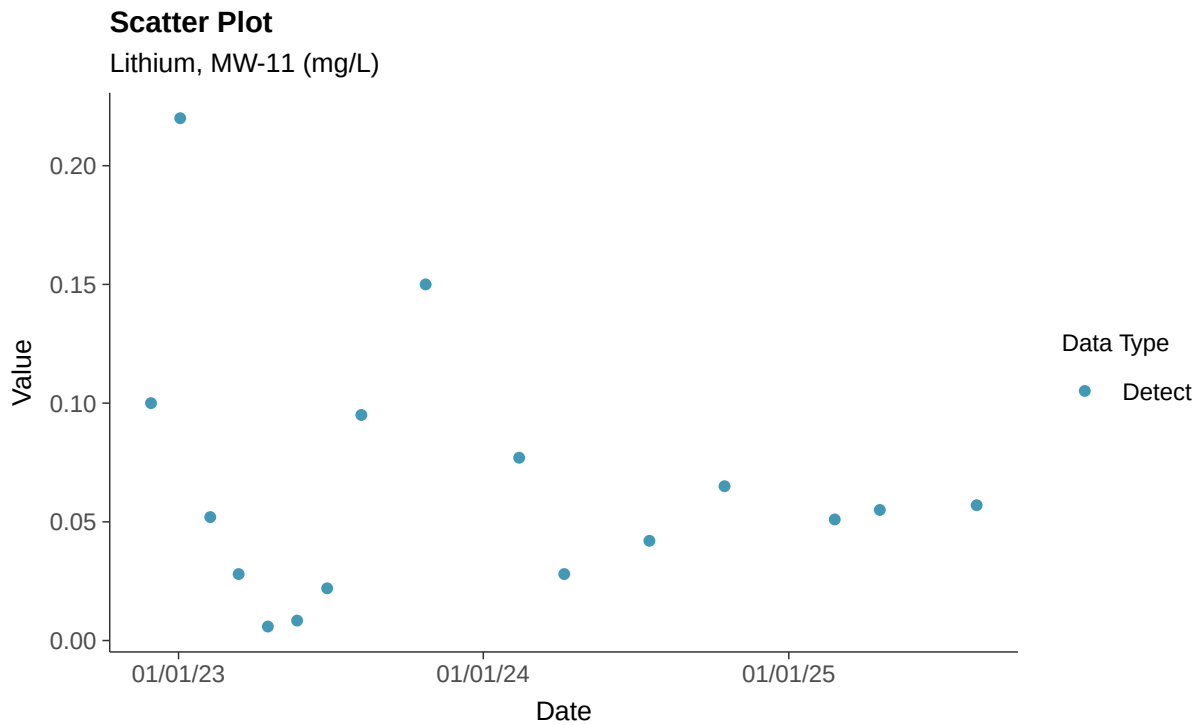
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-11 (mg/L)



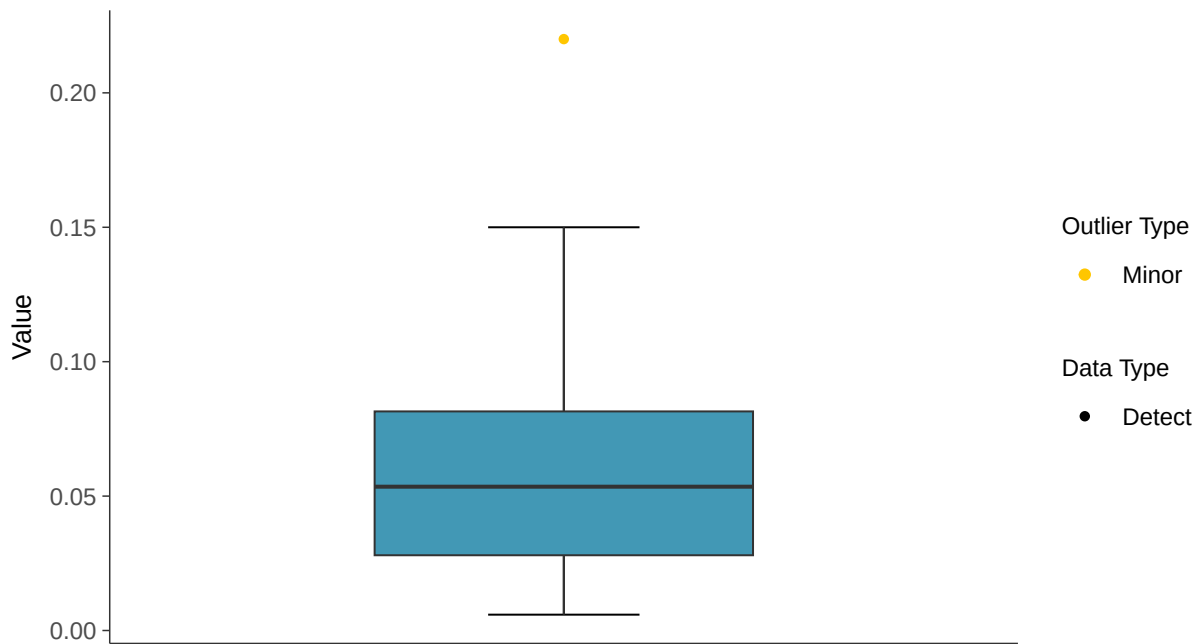
Appendix IV: Lithium, MW-11

ID: 21_2_4_116



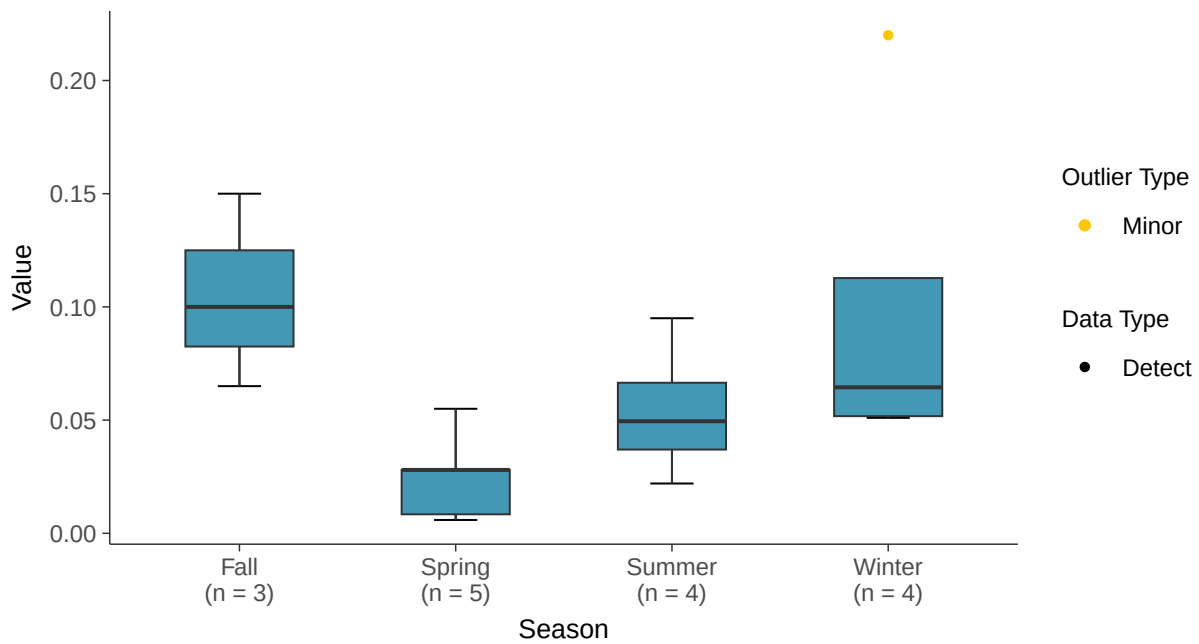
Boxplot

Lithium, MW-11 (mg/L)



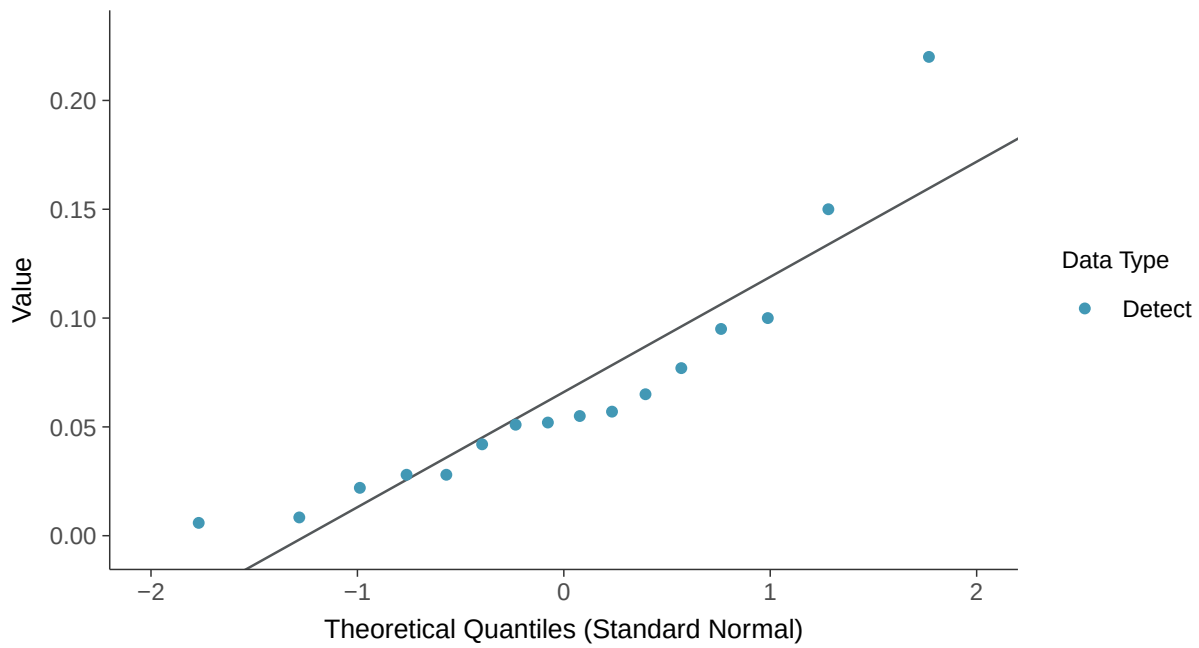
Boxplot by Season

Lithium, MW-11 (mg/L)



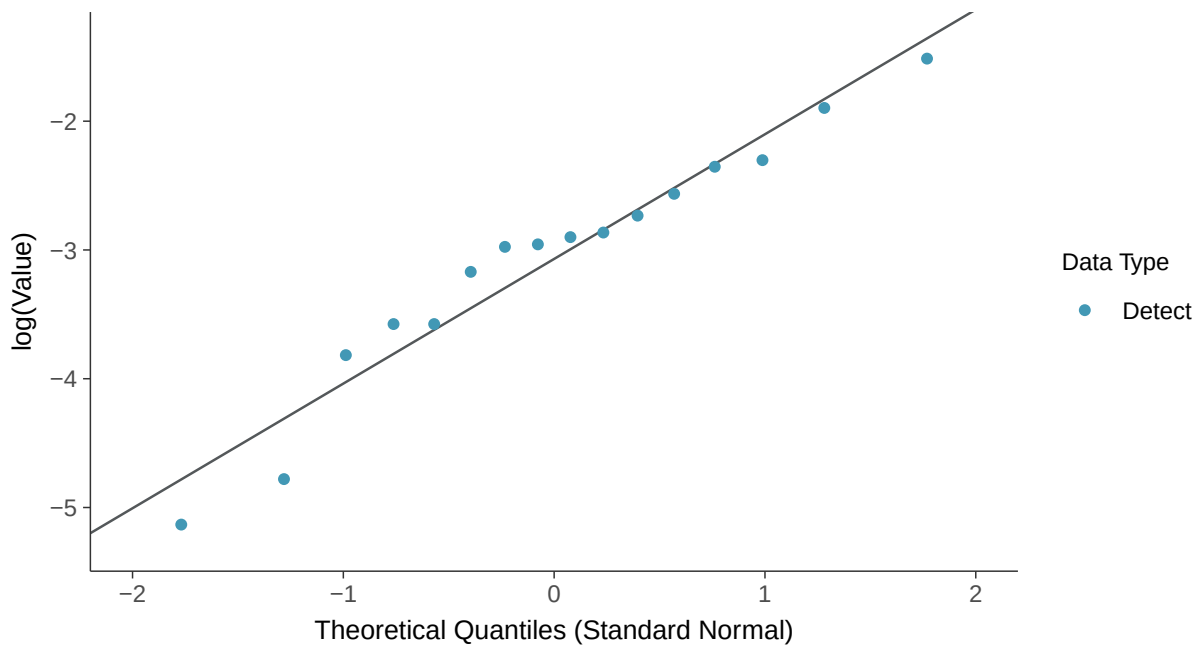
Normal Q-Q plot

Lithium, MW-11 (mg/L)



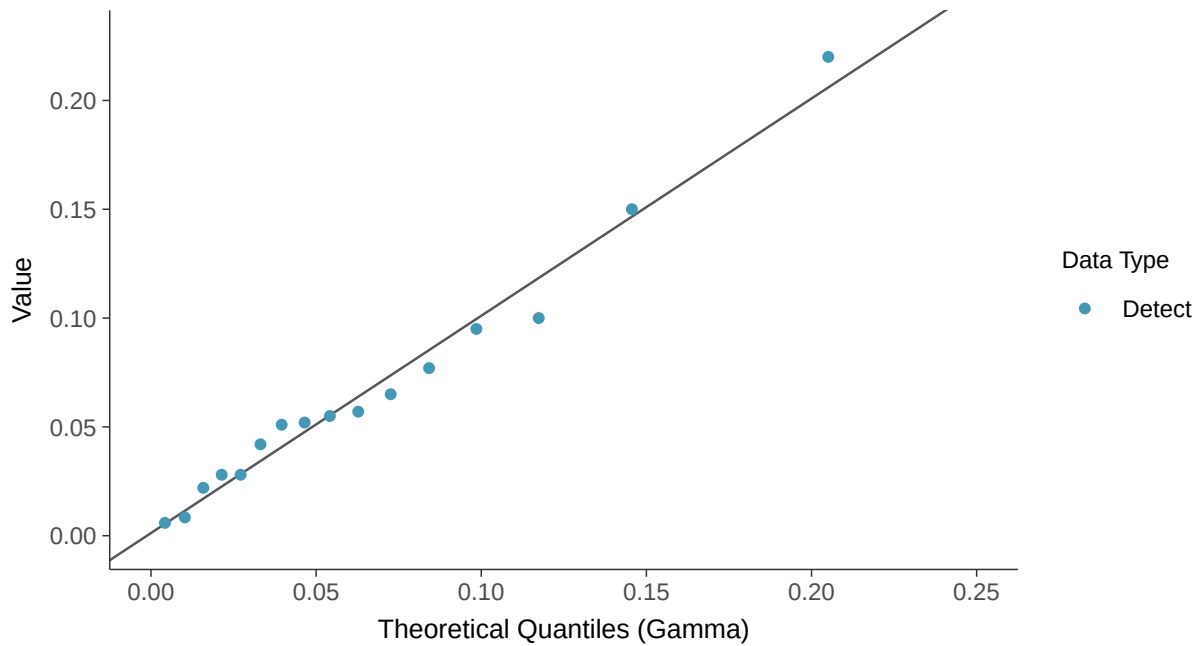
Lognormal Q-Q plot

Lithium, MW-11 (mg/L)



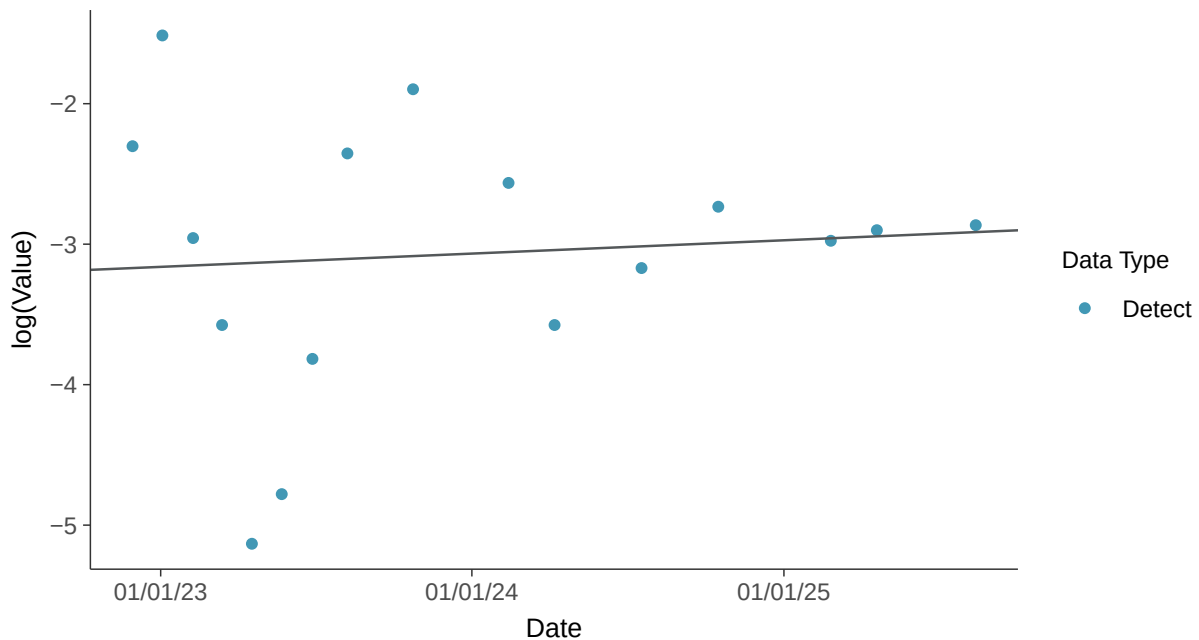
Gamma Q-Q plot

Lithium, MW-11 (mg/L)



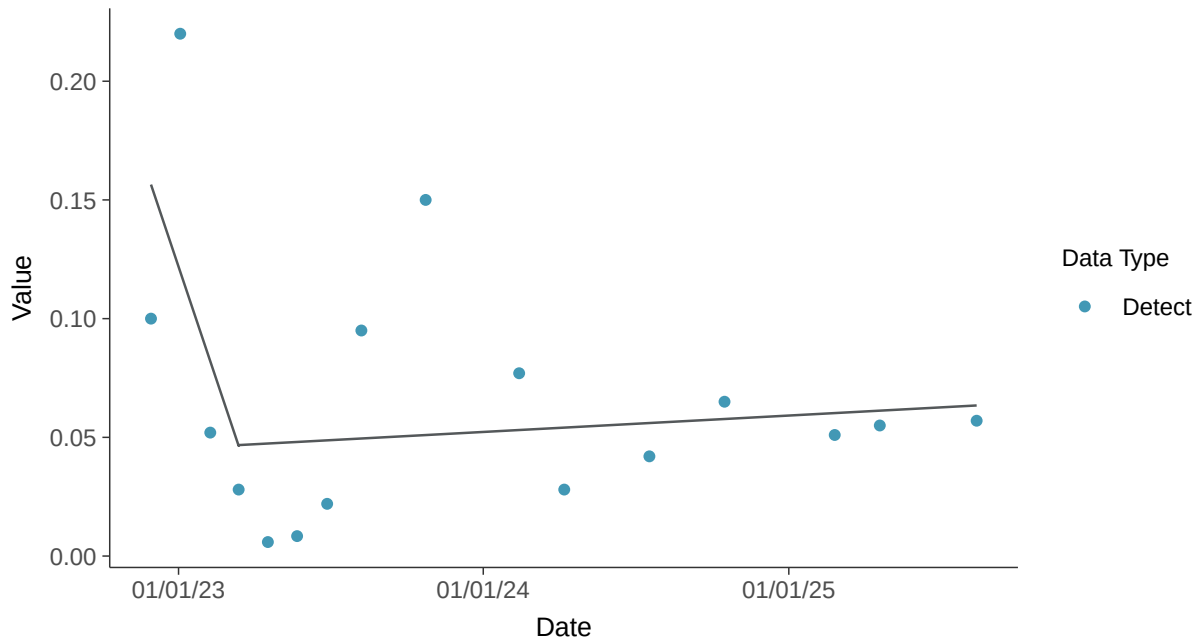
Trend Regression: Lognormal MLE

Lithium, MW-11 (mg/L)



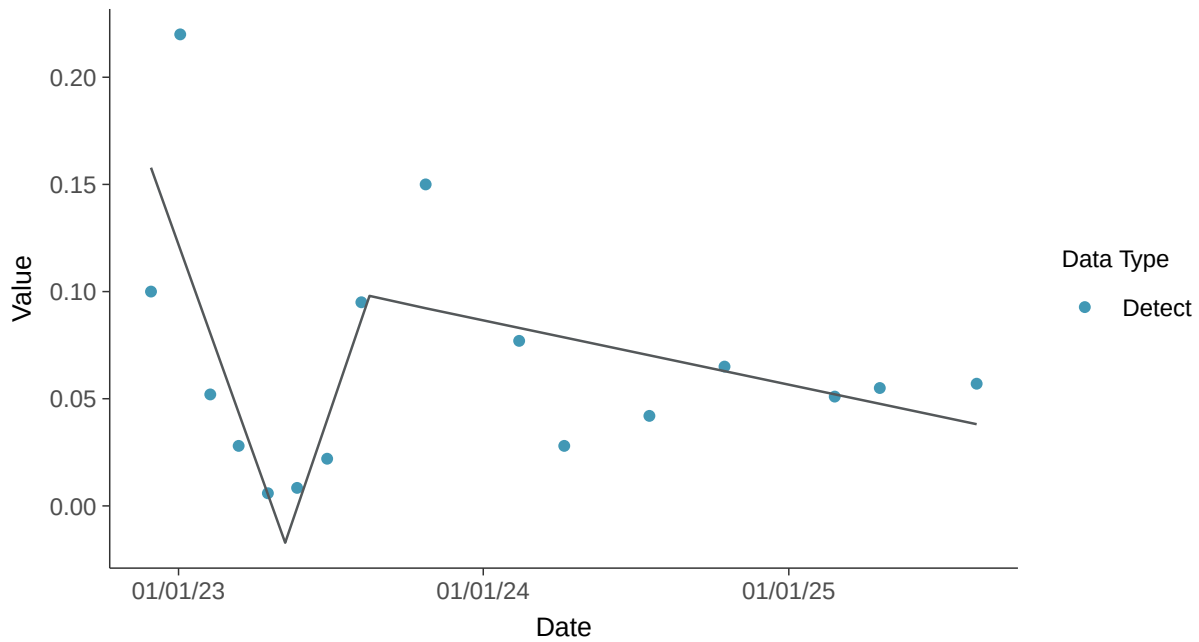
Trend Regression: Piecewise Linear-Linear

Lithium, MW-11 (mg/L)



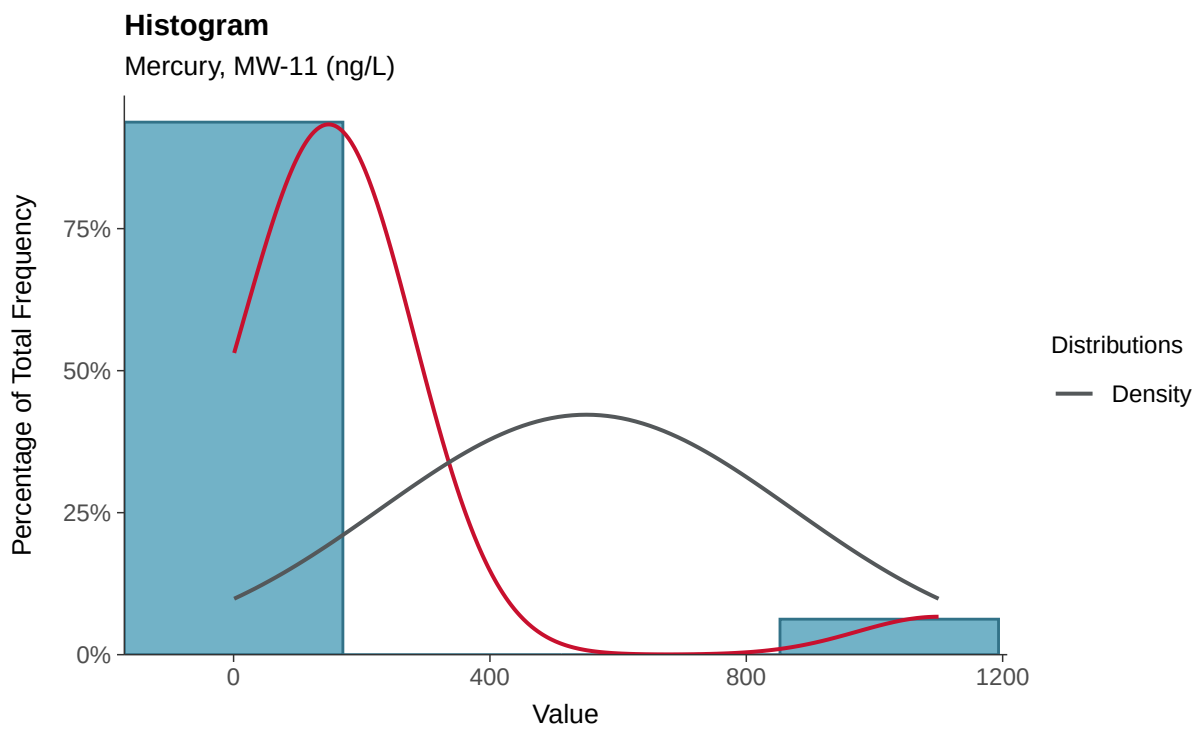
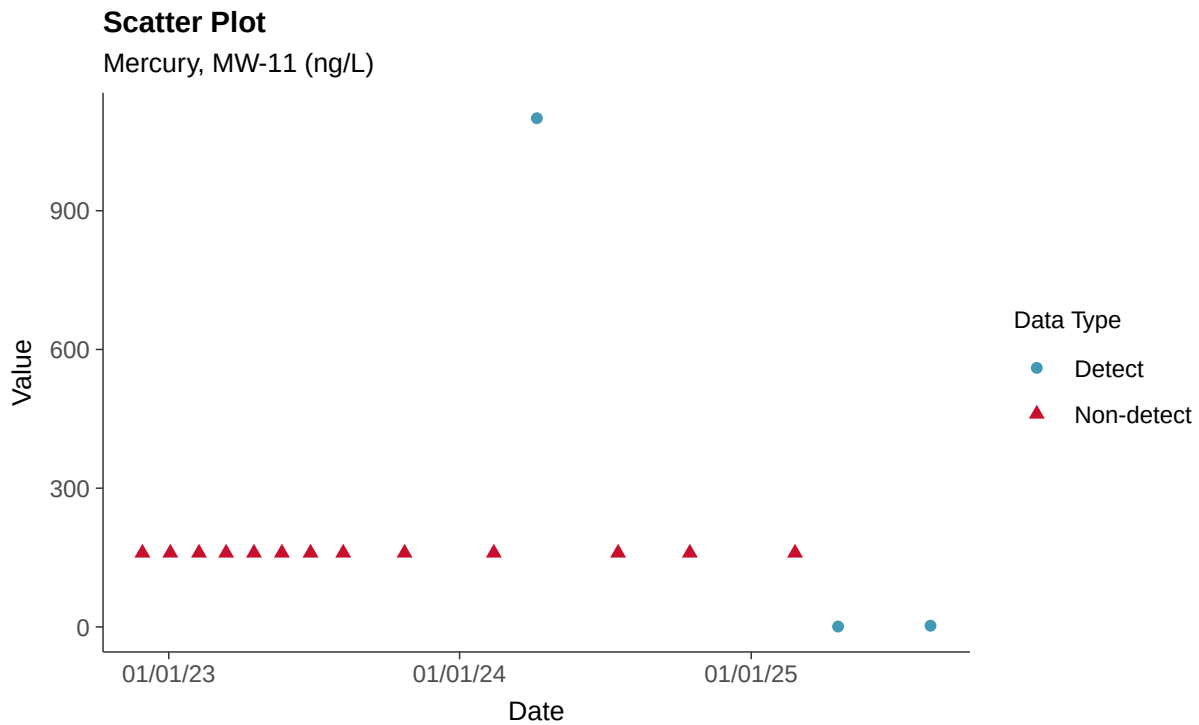
Trend Regression: Piecewise Linear-Linear-Linear

Lithium, MW-11 (mg/L)



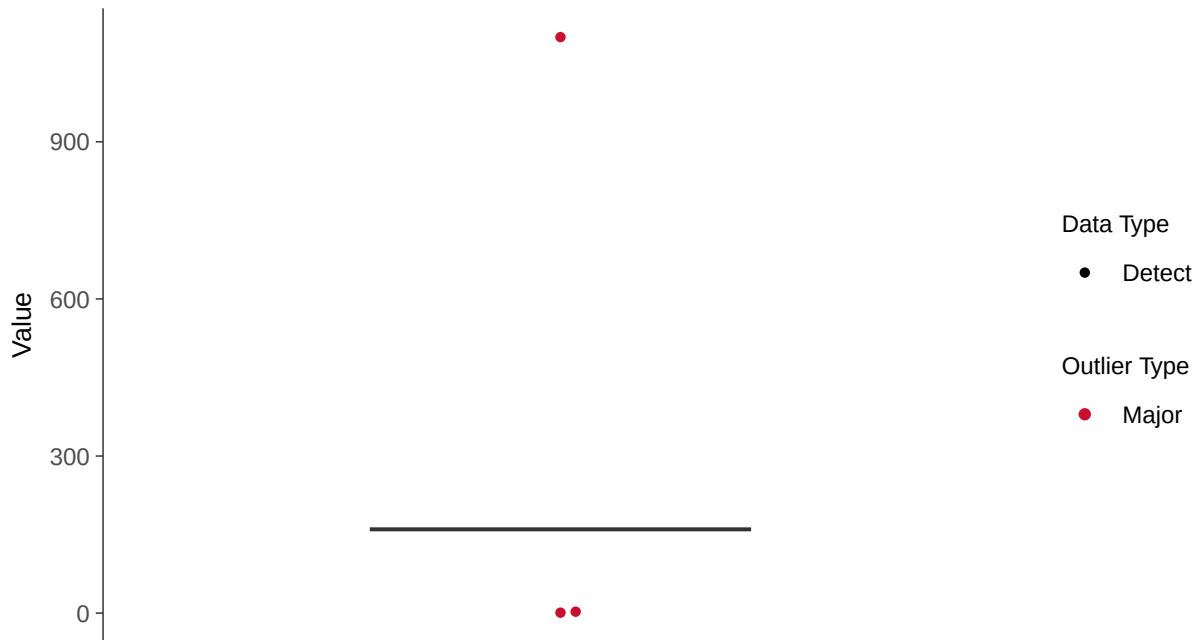
Appendix IV: Mercury, MW-11

ID: 21_2_4_117



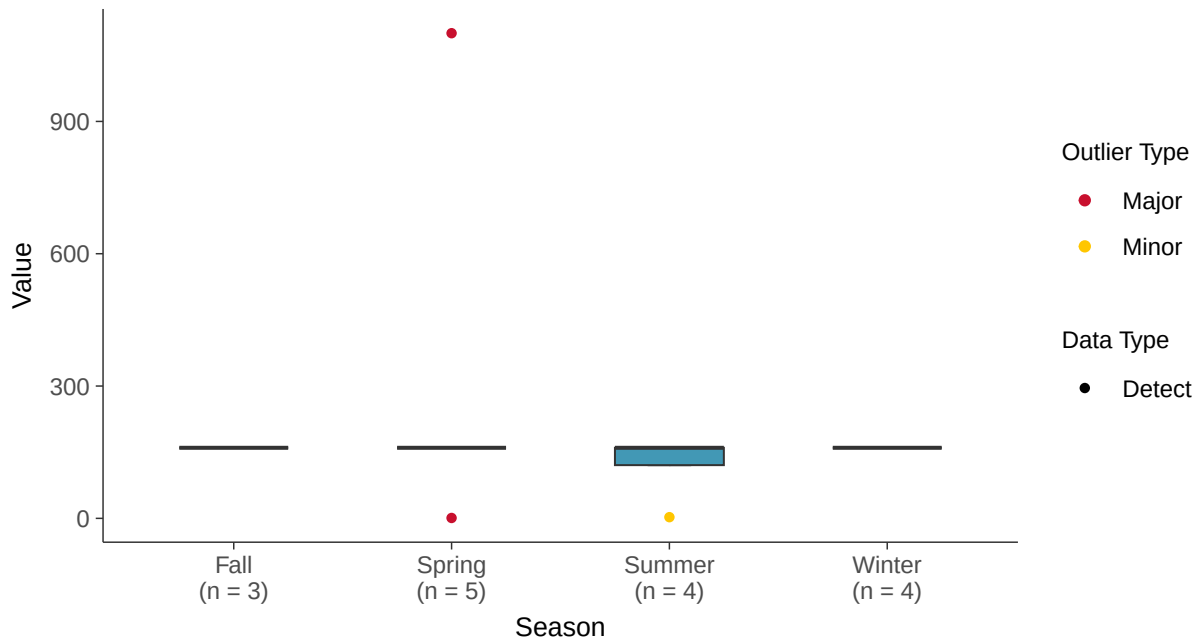
Boxplot

Mercury, MW-11 (ng/L)



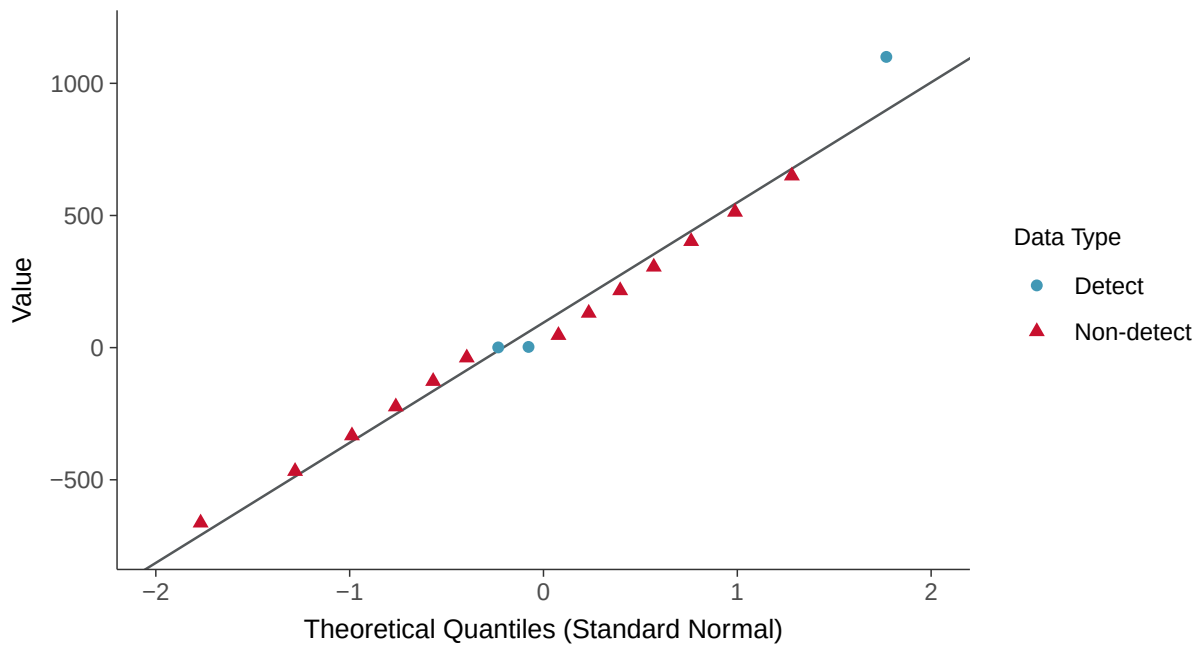
Boxplot by Season

Mercury, MW-11 (ng/L)



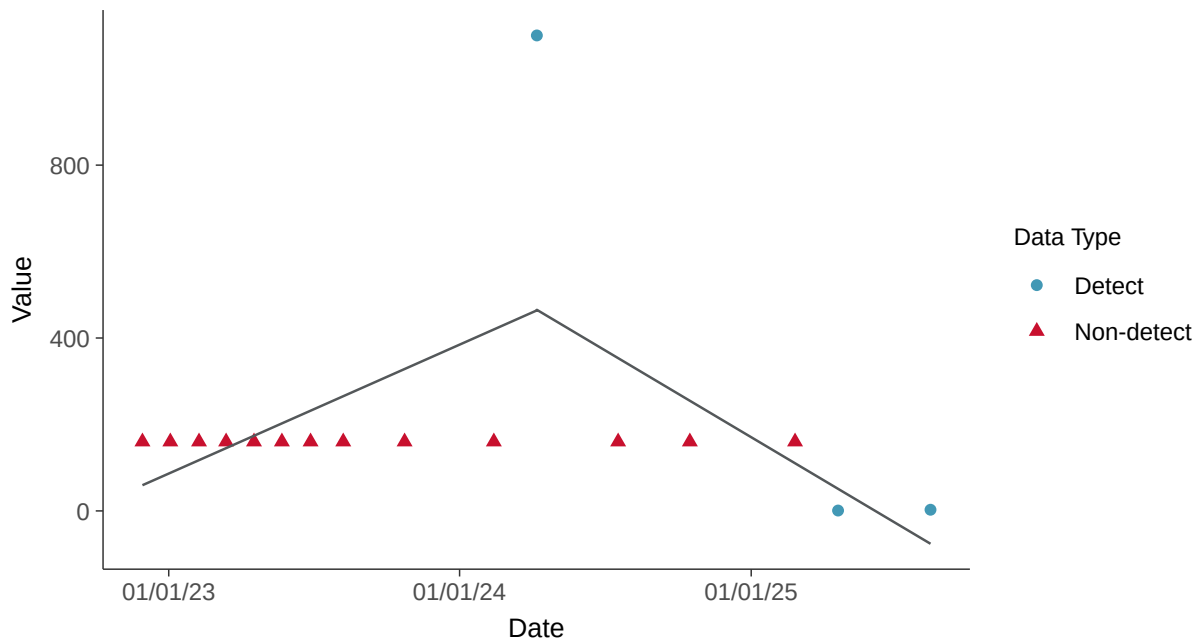
Normal Q-Q plot using ROS Imputed Estimates

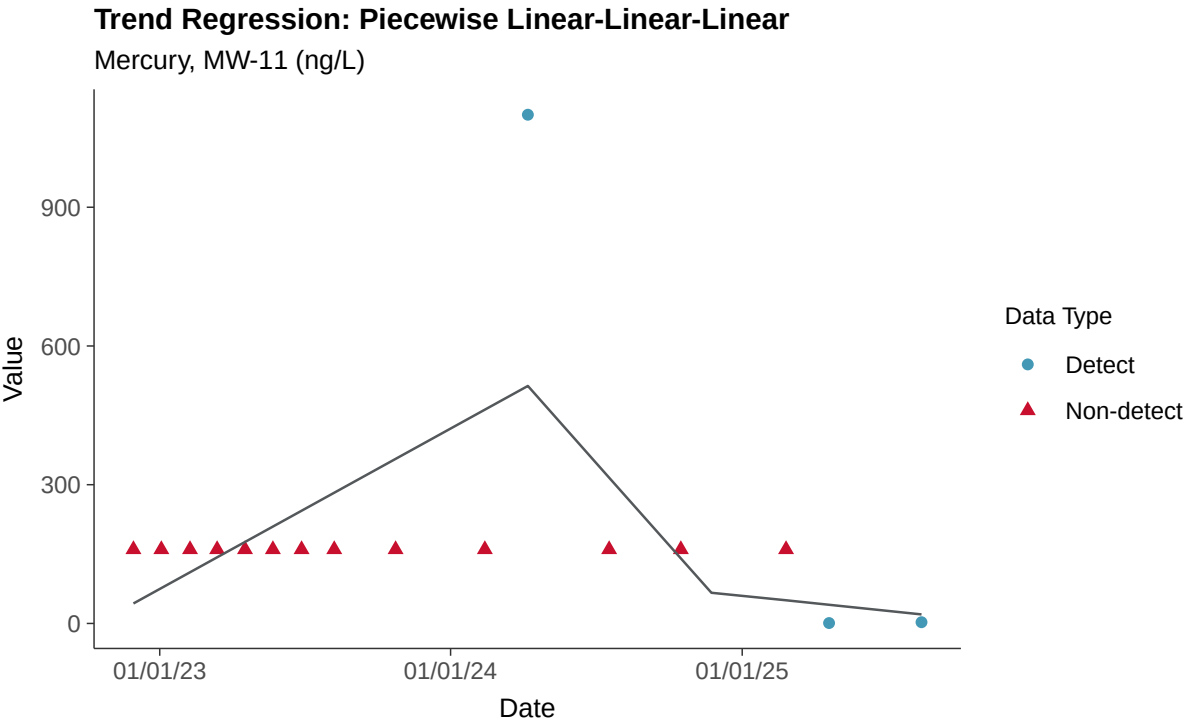
Mercury, MW-11 (ng/L)



Trend Regression: Piecewise Linear-Linear

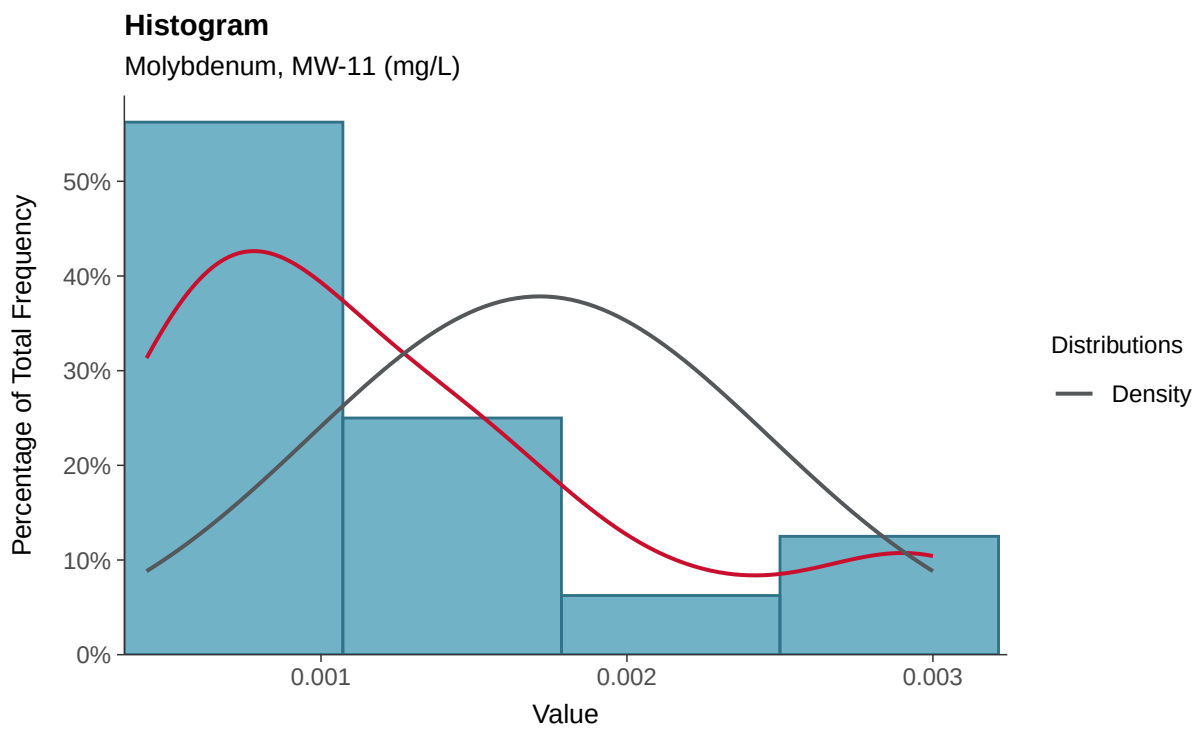
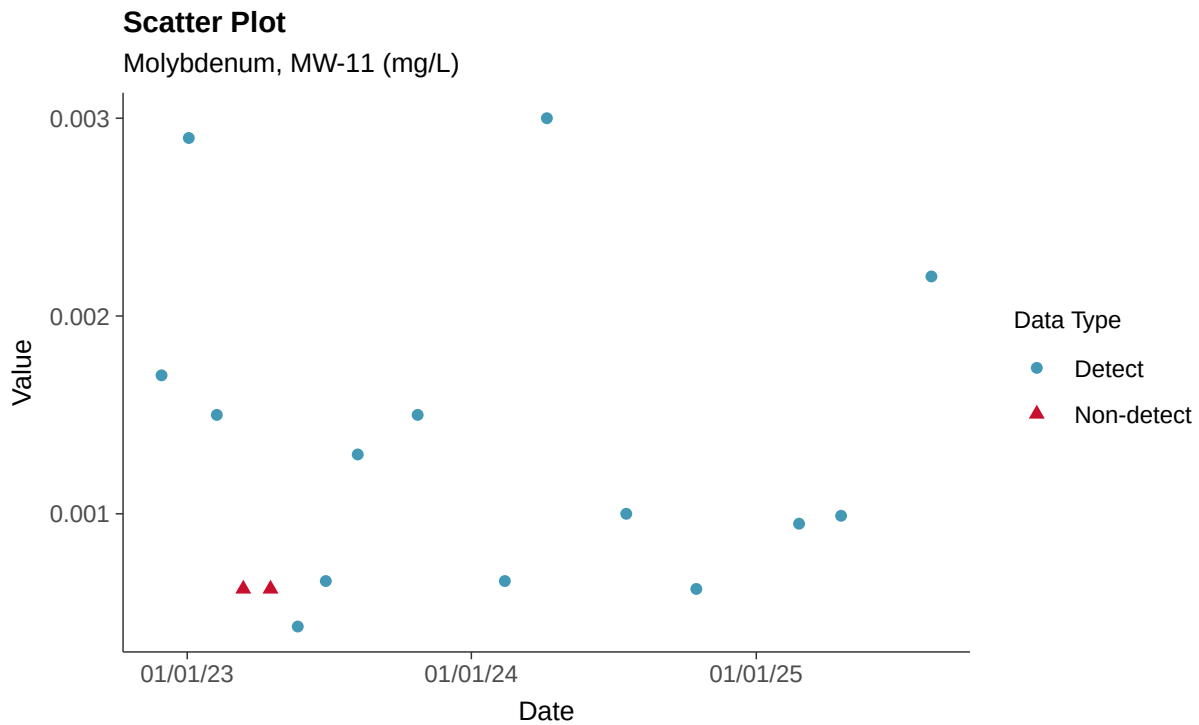
Mercury, MW-11 (ng/L)





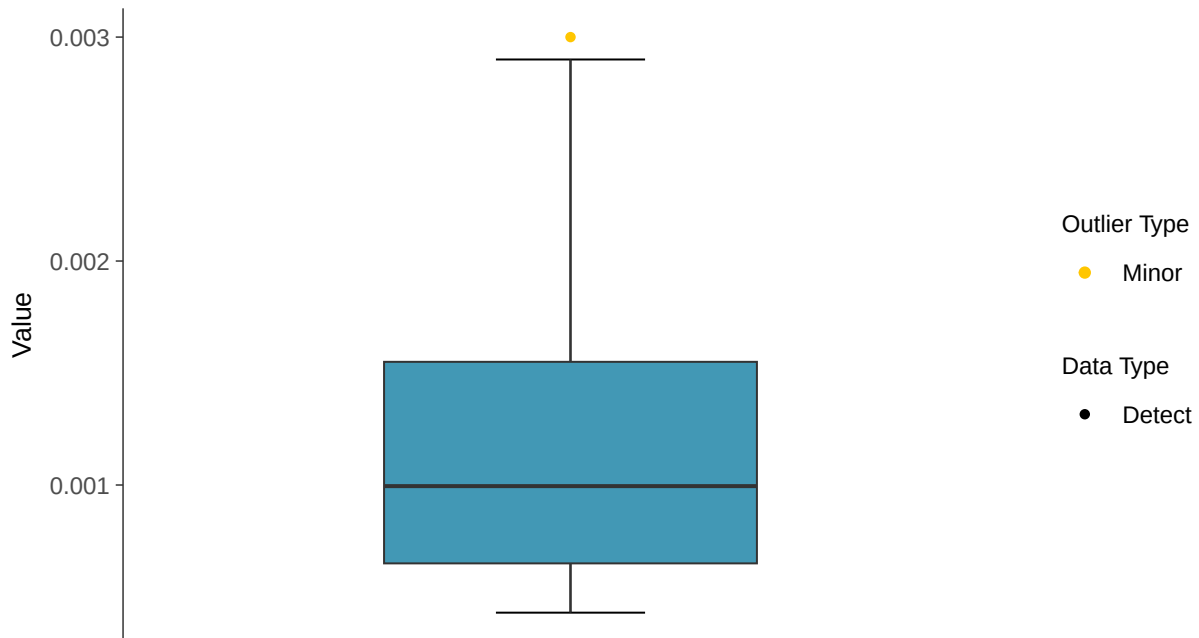
Appendix IV: Molybdenum, MW-11

ID: 21_2_4_118



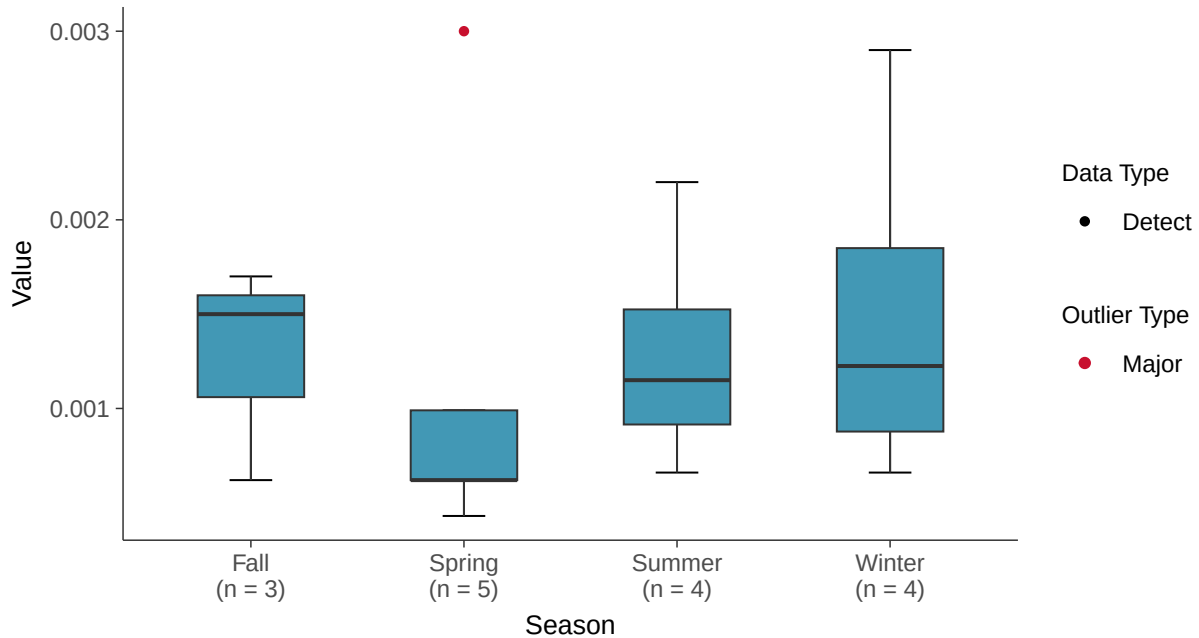
Boxplot

Molybdenum, MW-11 (mg/L)



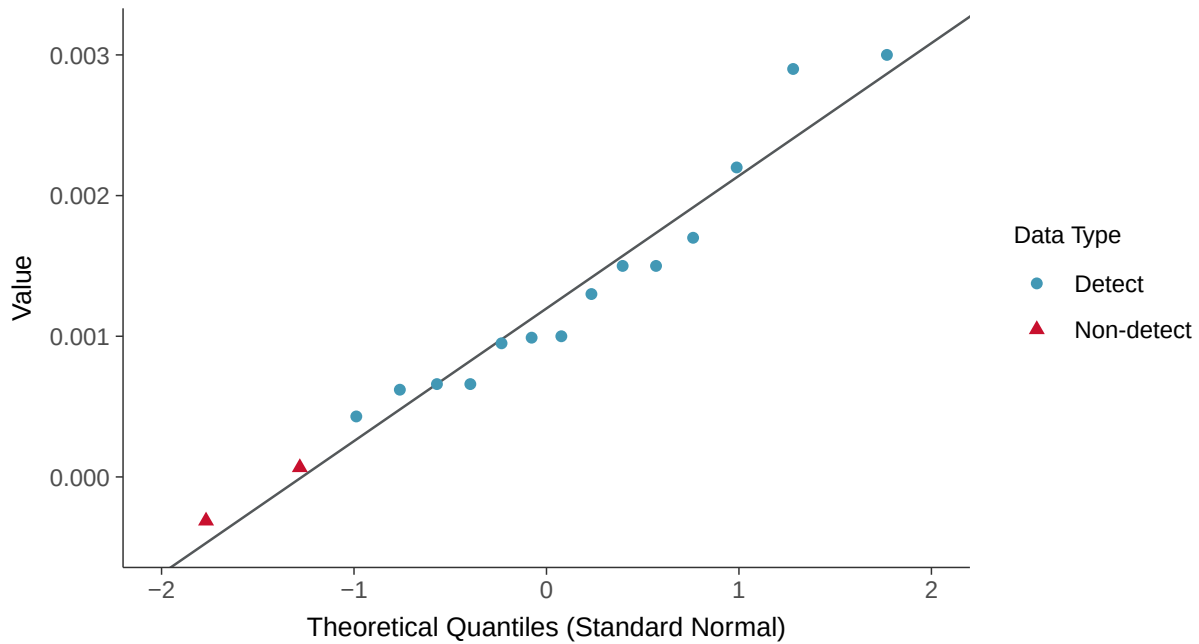
Boxplot by Season

Molybdenum, MW-11 (mg/L)



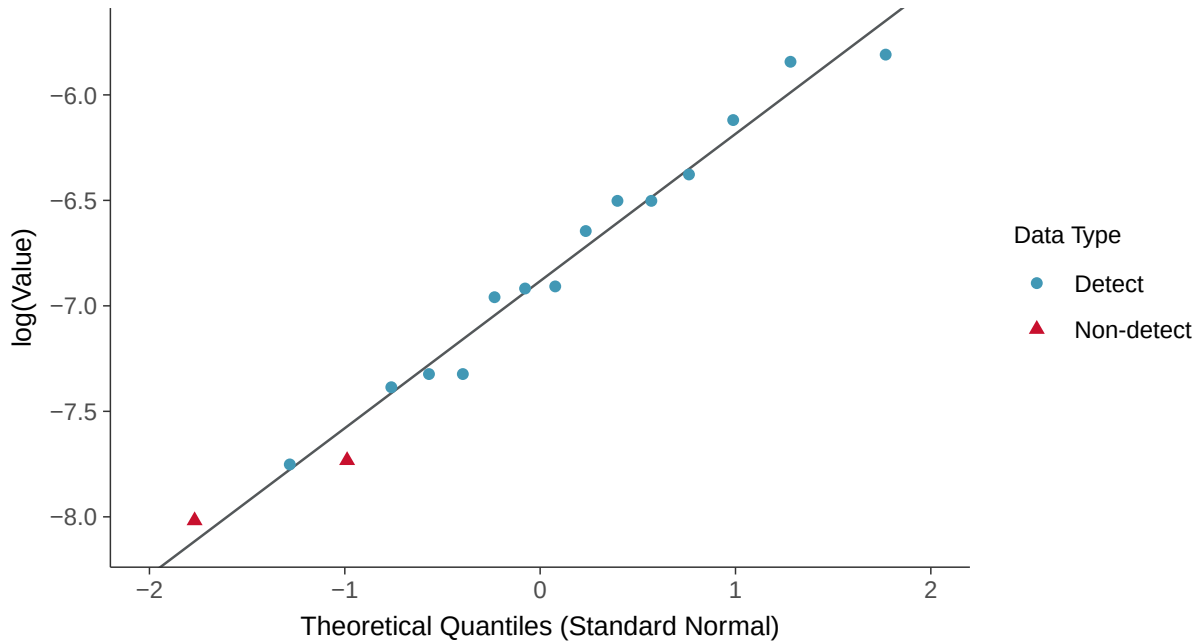
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-11 (mg/L)



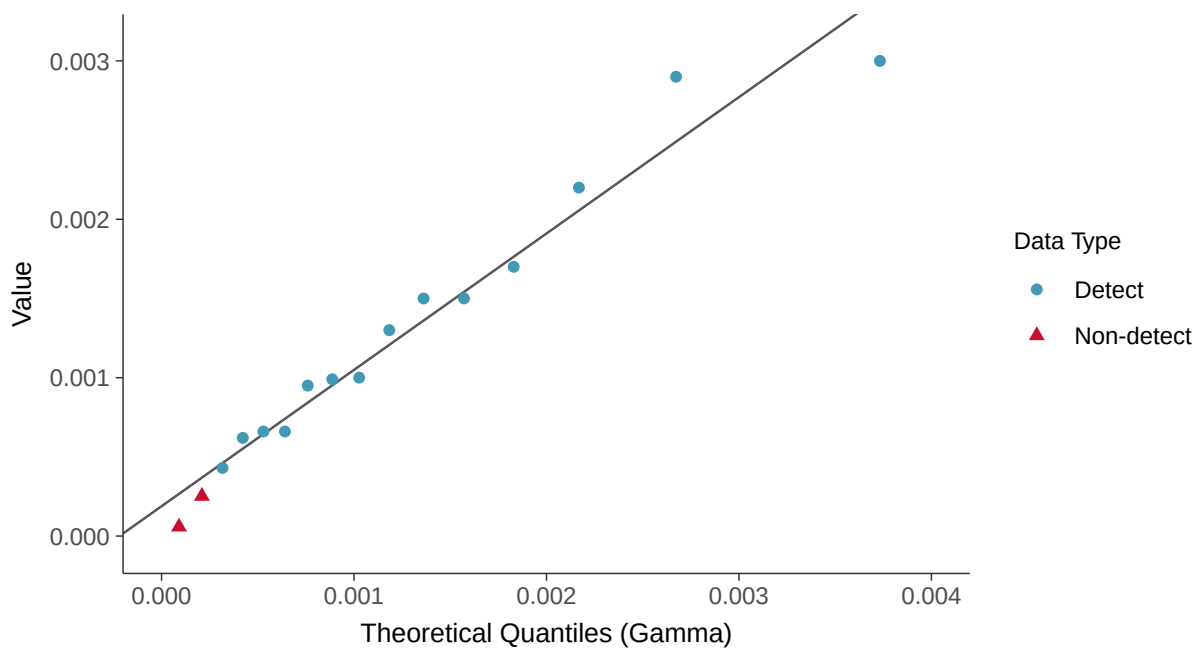
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-11 (mg/L)



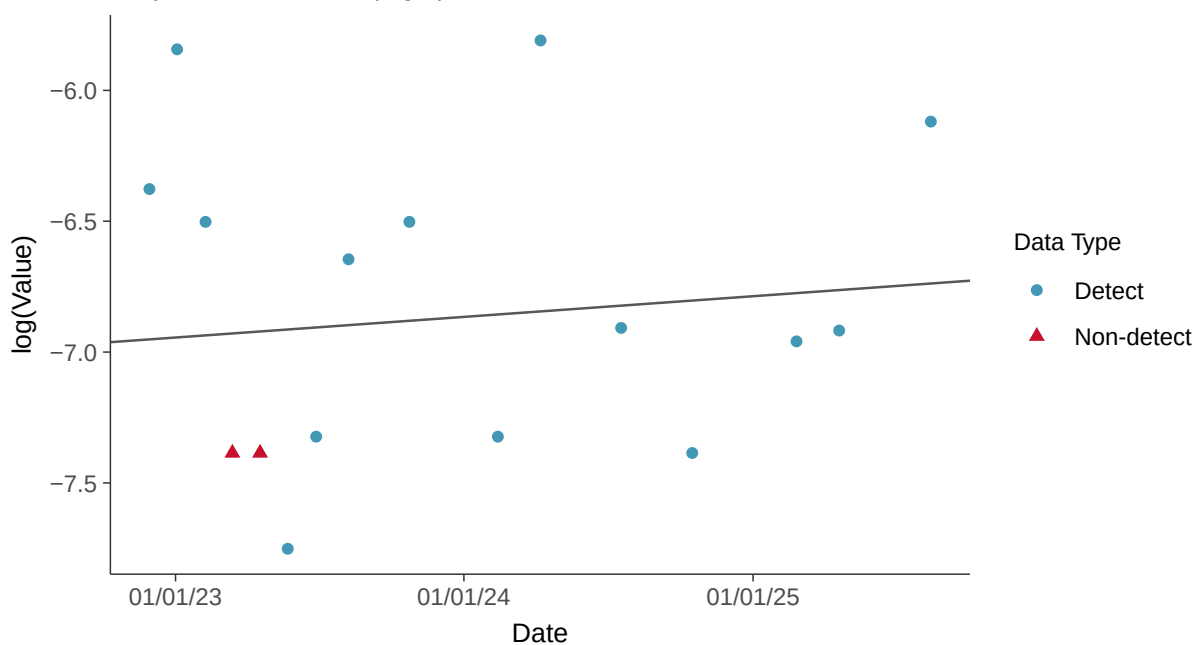
Gamma Q-Q plot using ROS Imputed Estimates

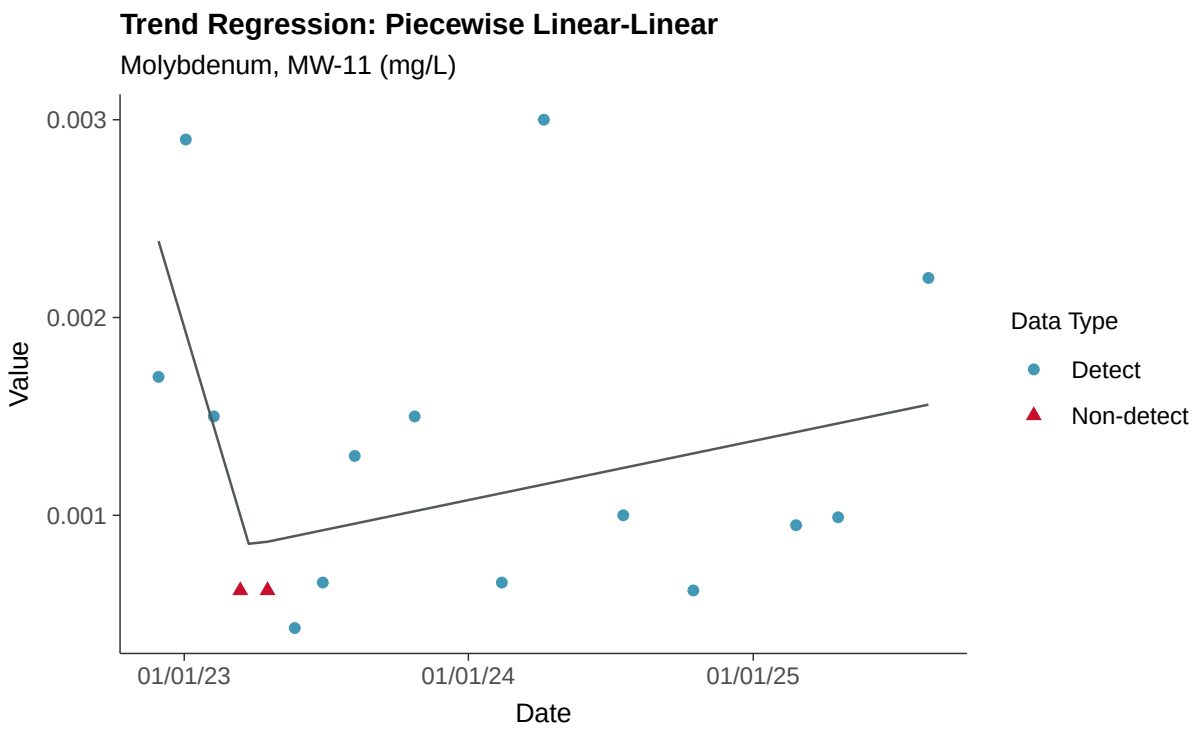
Molybdenum, MW-11 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-11 (mg/L)



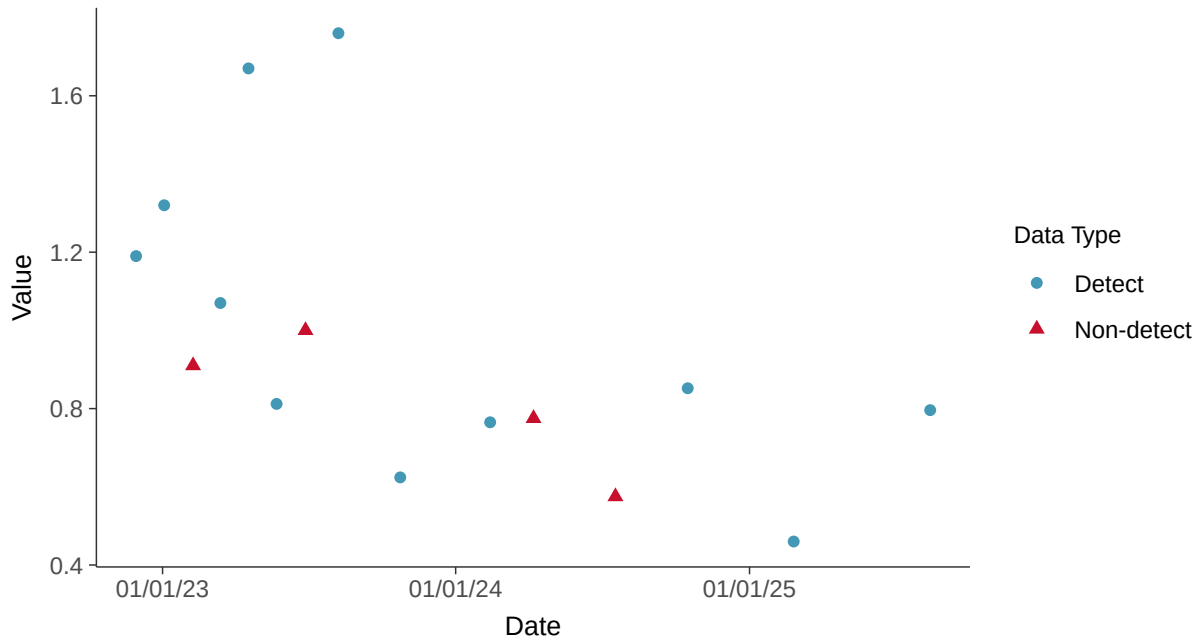


Appendix IV: Radium 226 and 228, MW-11

ID: 21_2_4_121

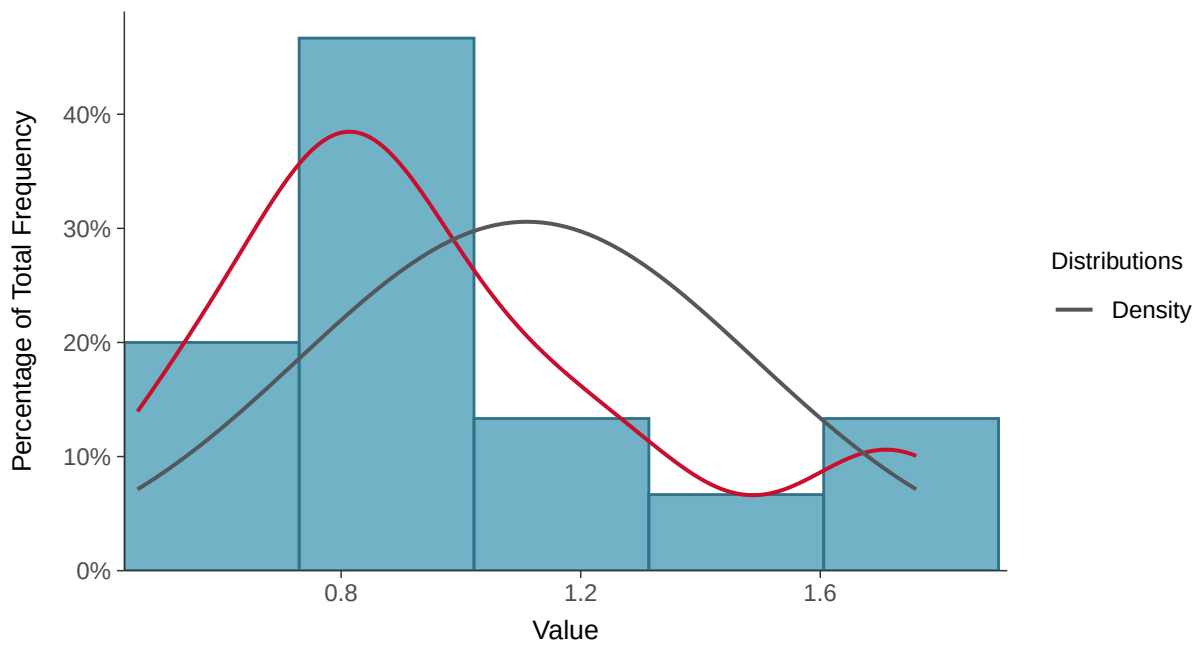
Scatter Plot

Radium 226 and 228, MW-11 (pCi/L)



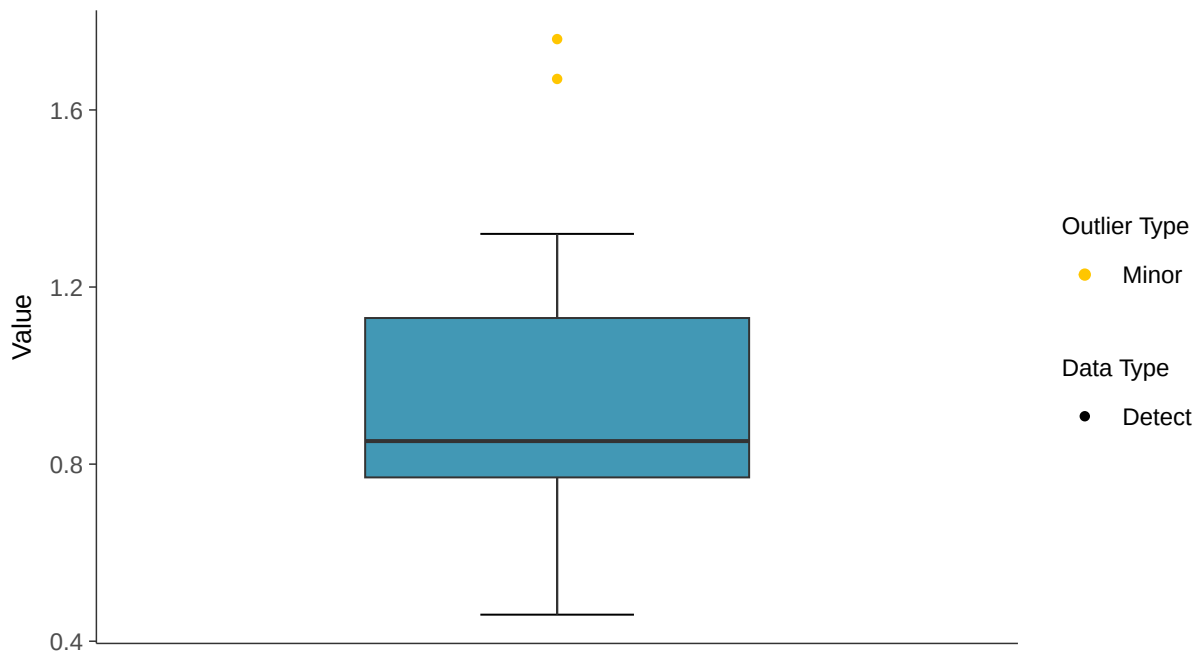
Histogram

Radium 226 and 228, MW-11 (pCi/L)



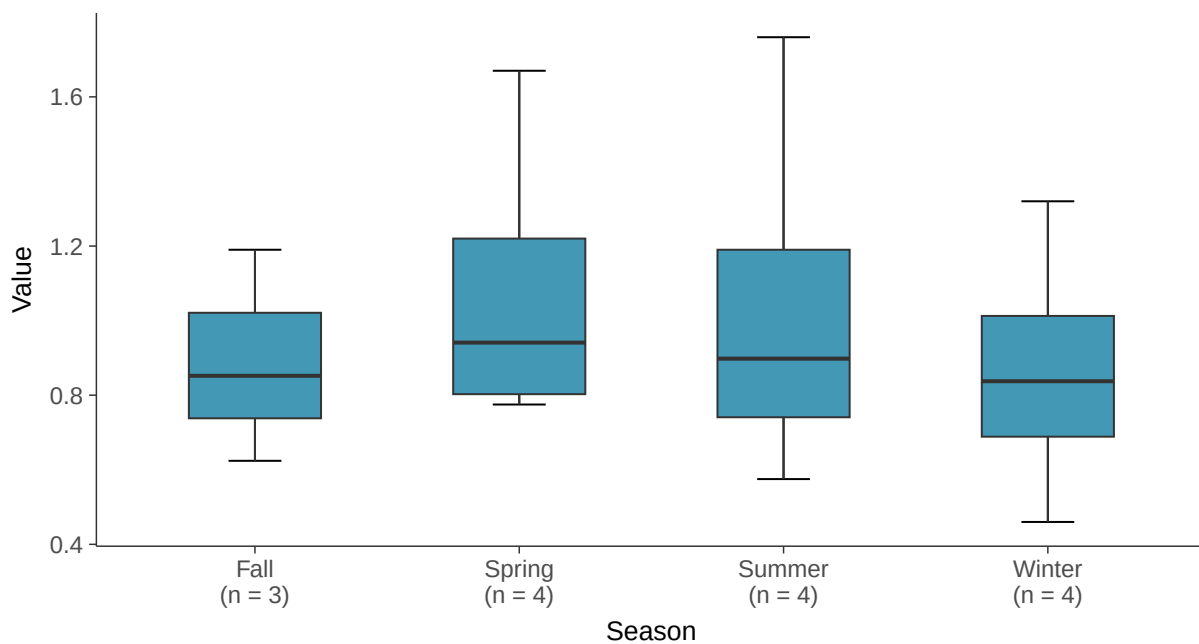
Boxplot

Radium 226 and 228, MW-11 (pCi/L)



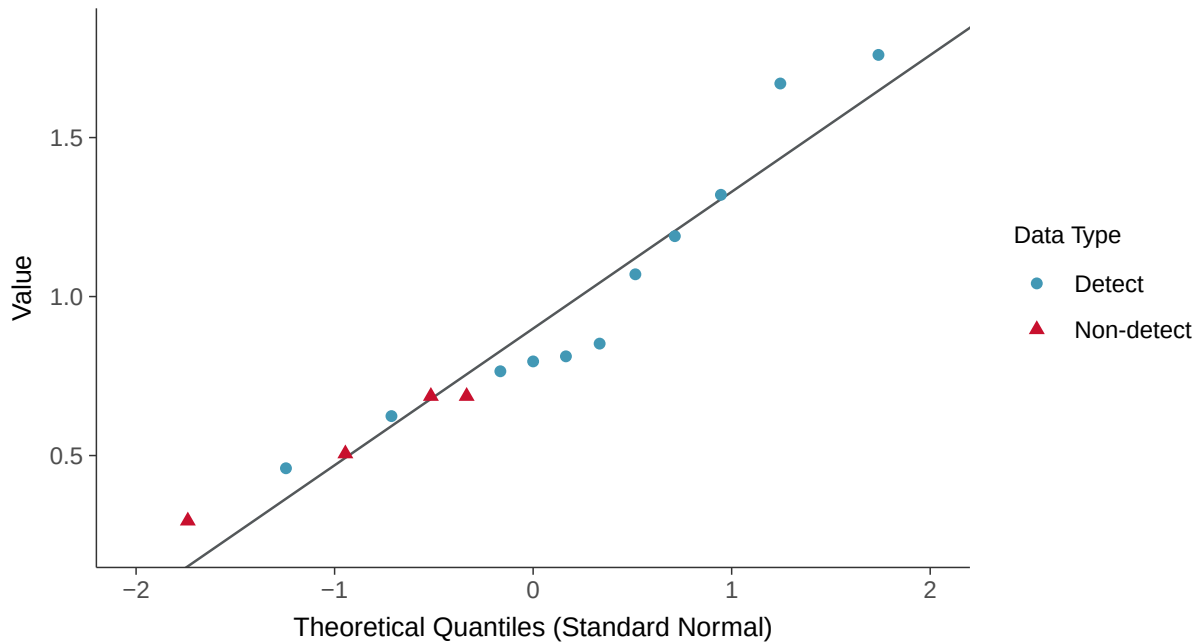
Boxplot by Season

Radium 226 and 228, MW-11 (pCi/L)



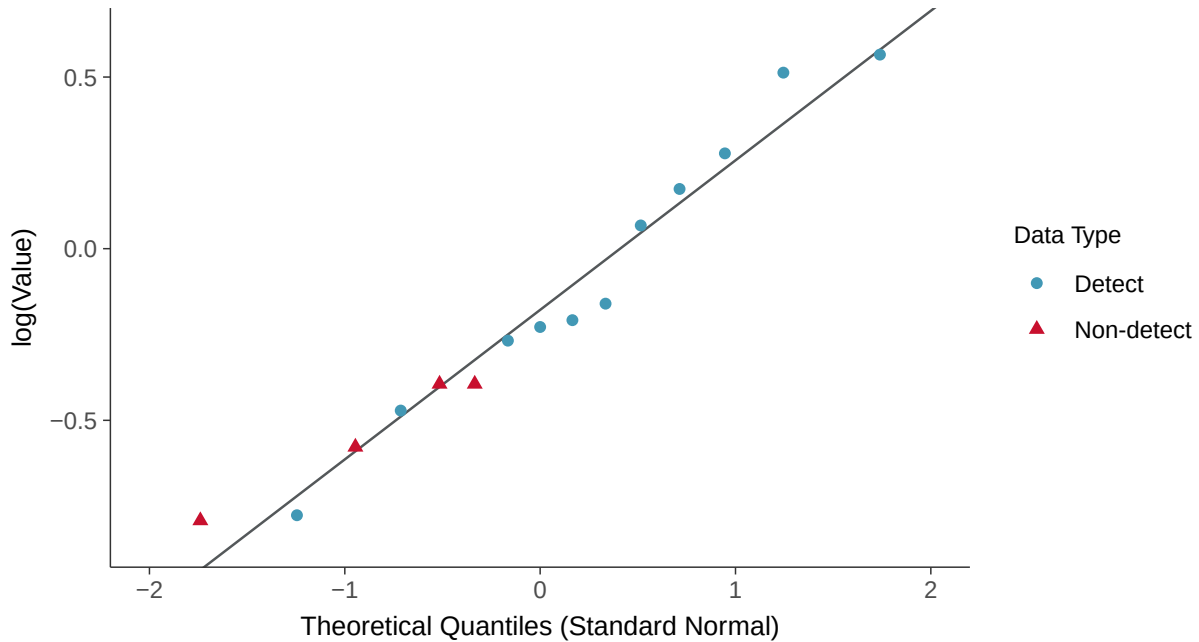
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



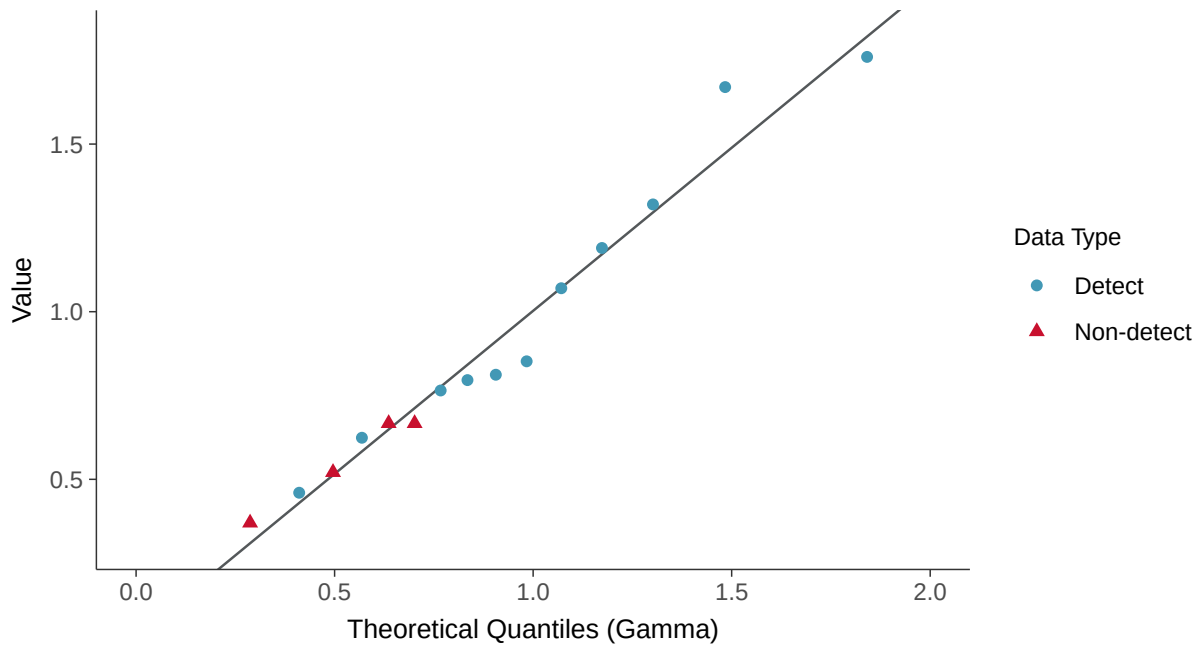
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



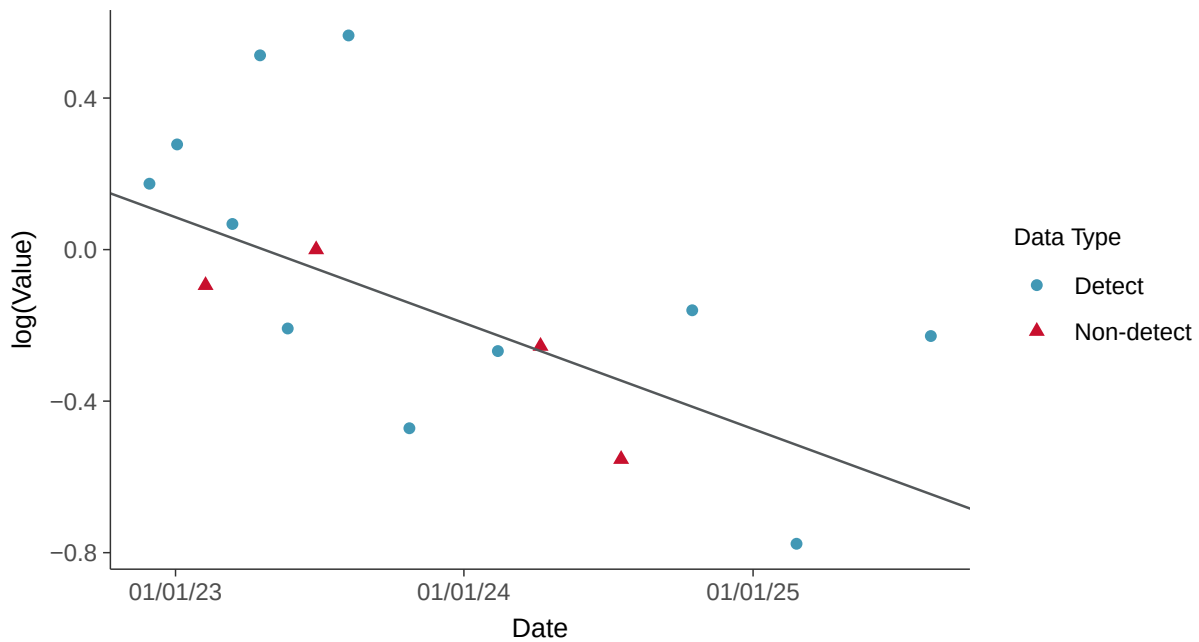
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



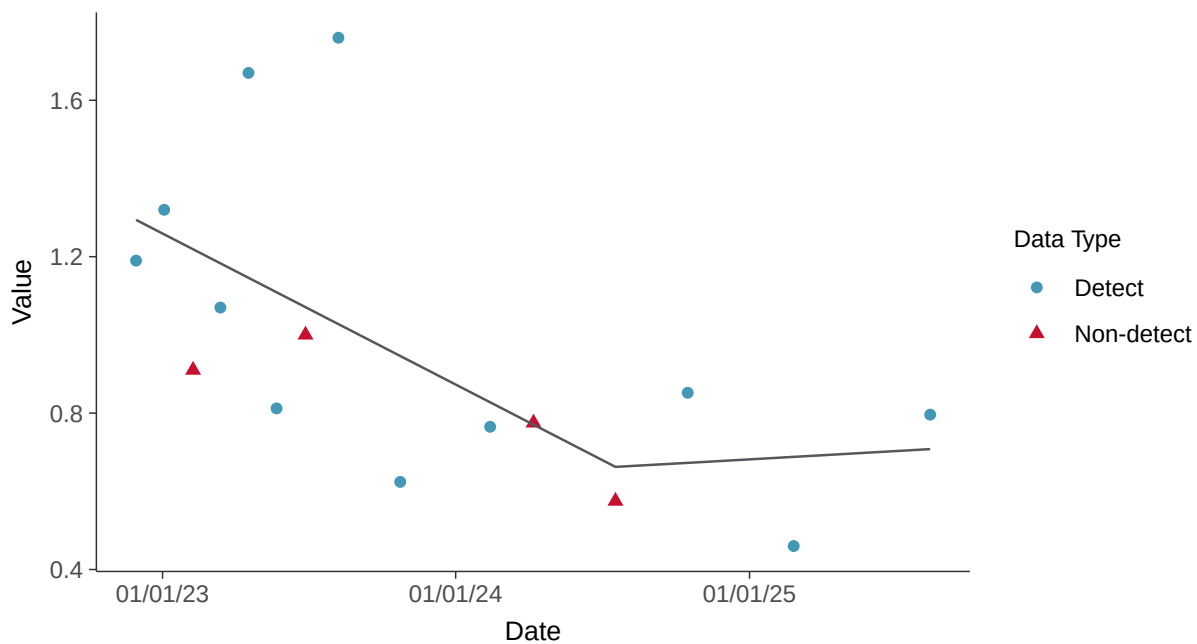
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-11 (pCi/L)



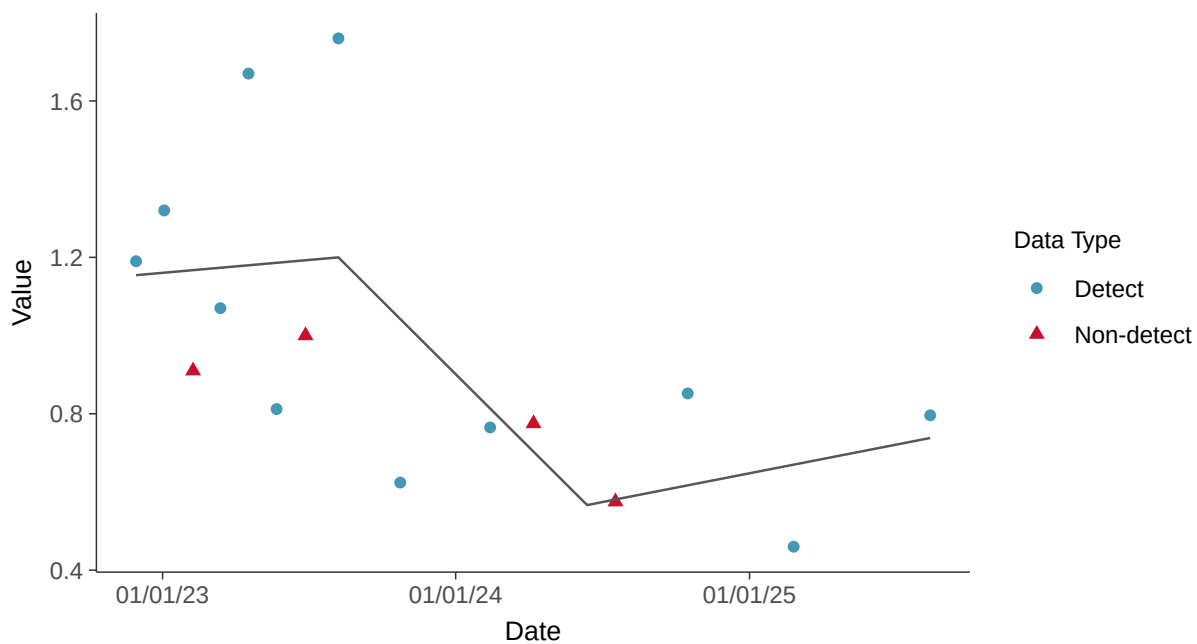
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-11 (pCi/L)



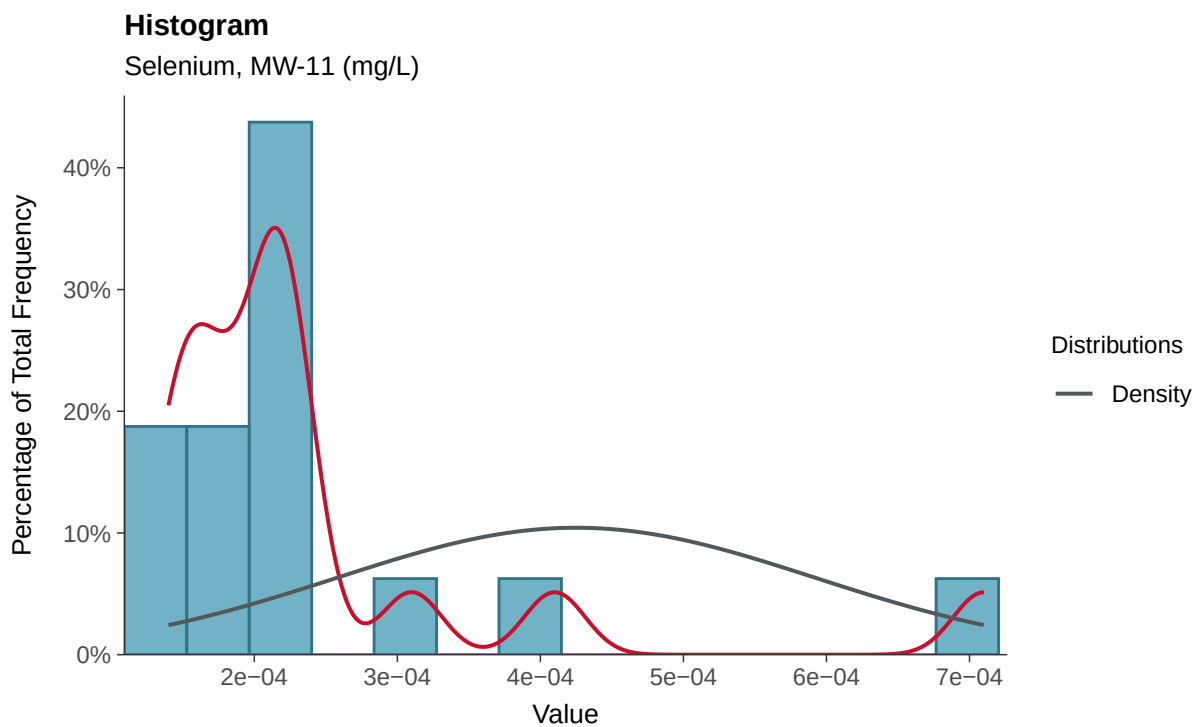
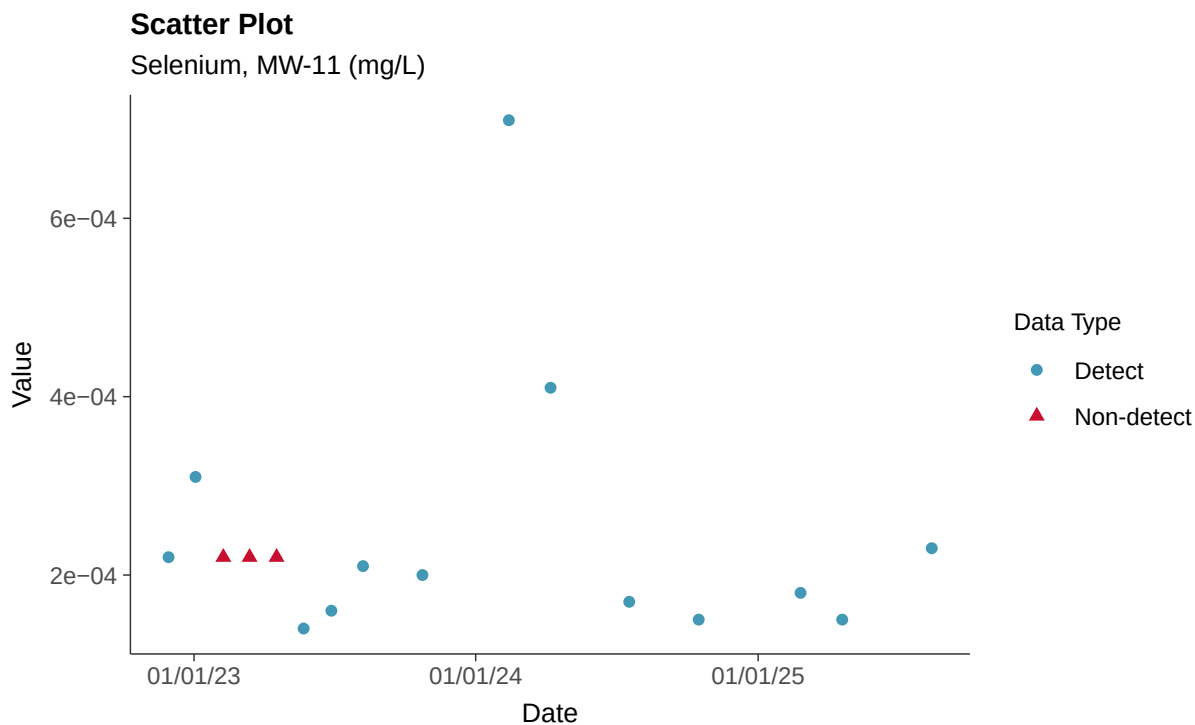
Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-11 (pCi/L)



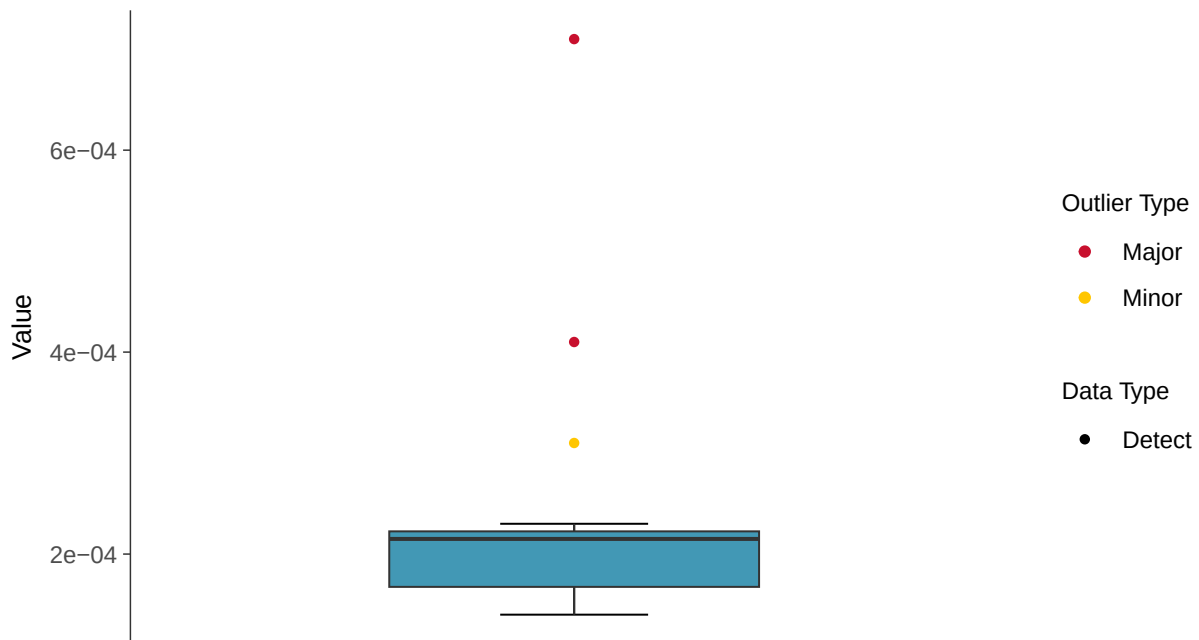
Appendix IV: Selenium, MW-11

ID: 21_2_4_122



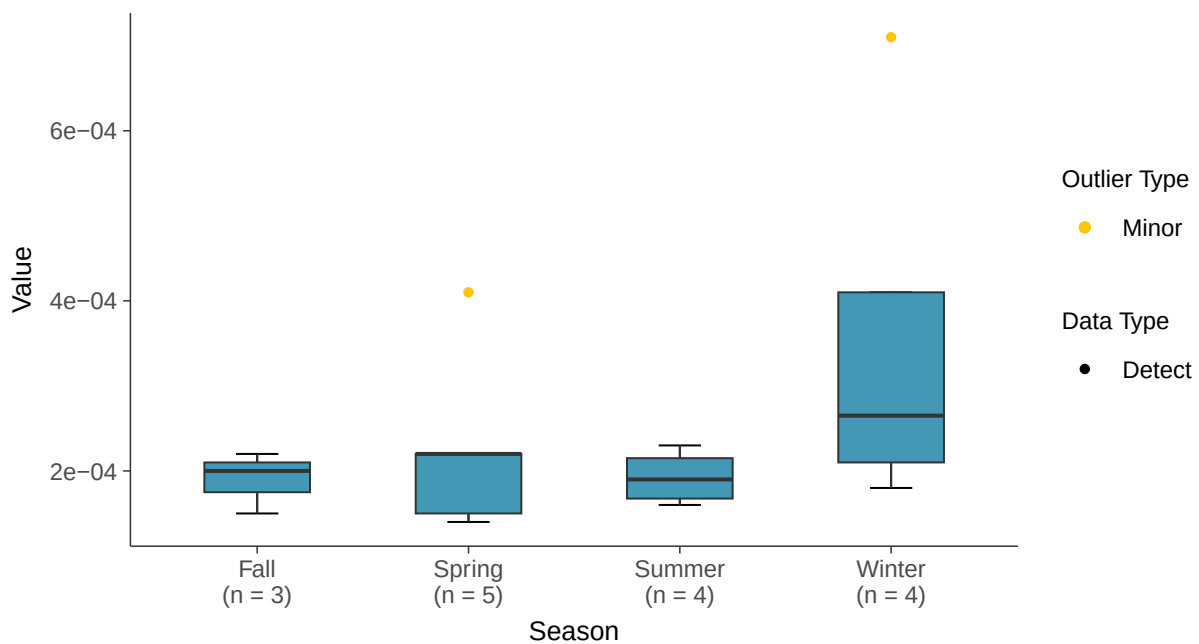
Boxplot

Selenium, MW-11 (mg/L)



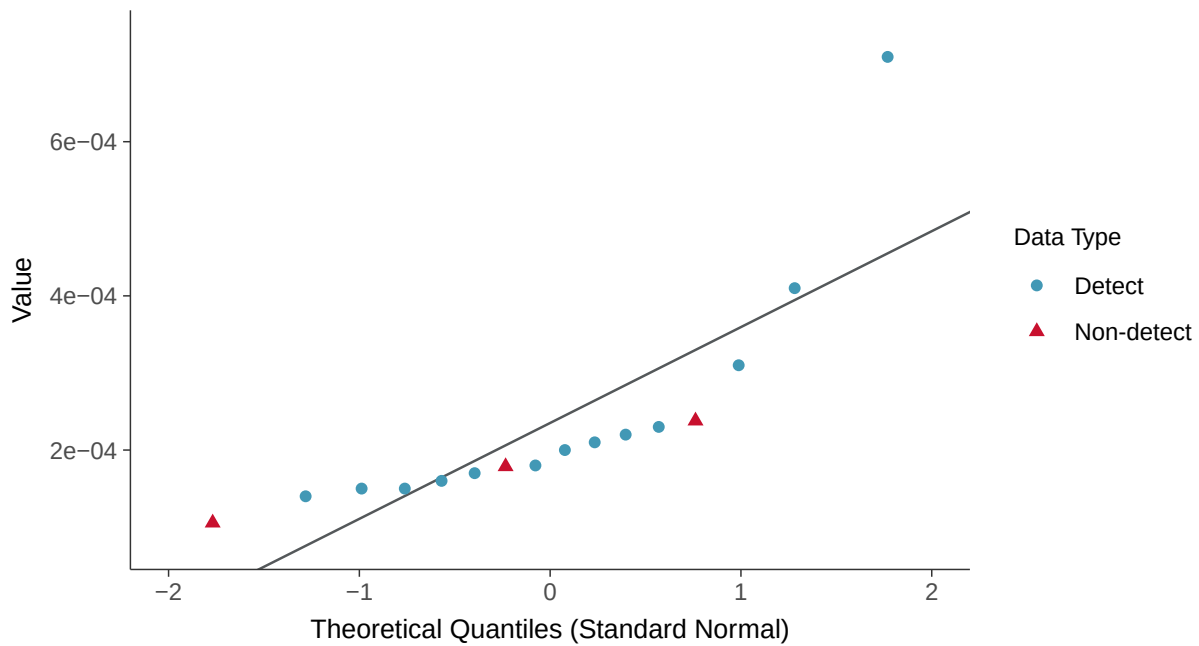
Boxplot by Season

Selenium, MW-11 (mg/L)



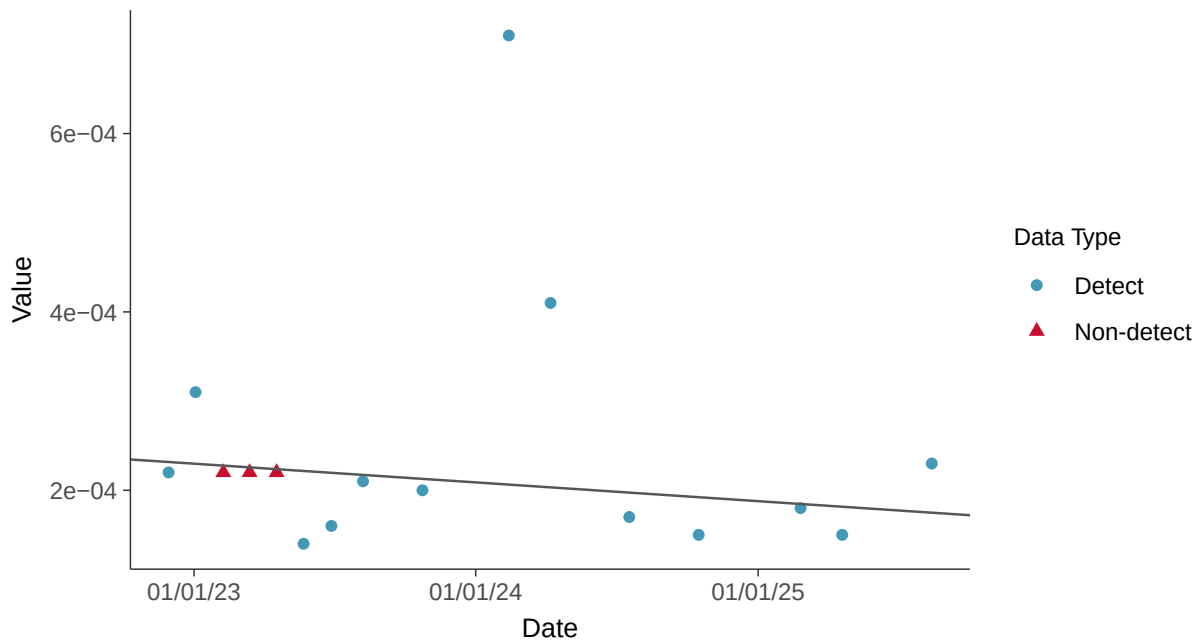
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-11 (mg/L)



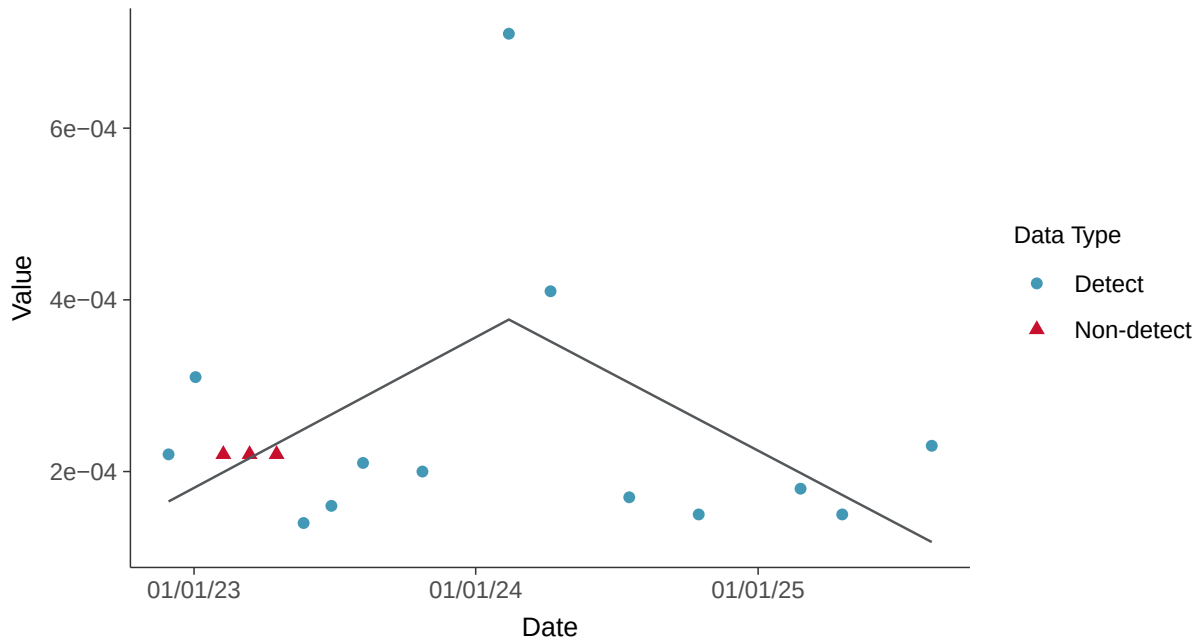
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-11 (mg/L)



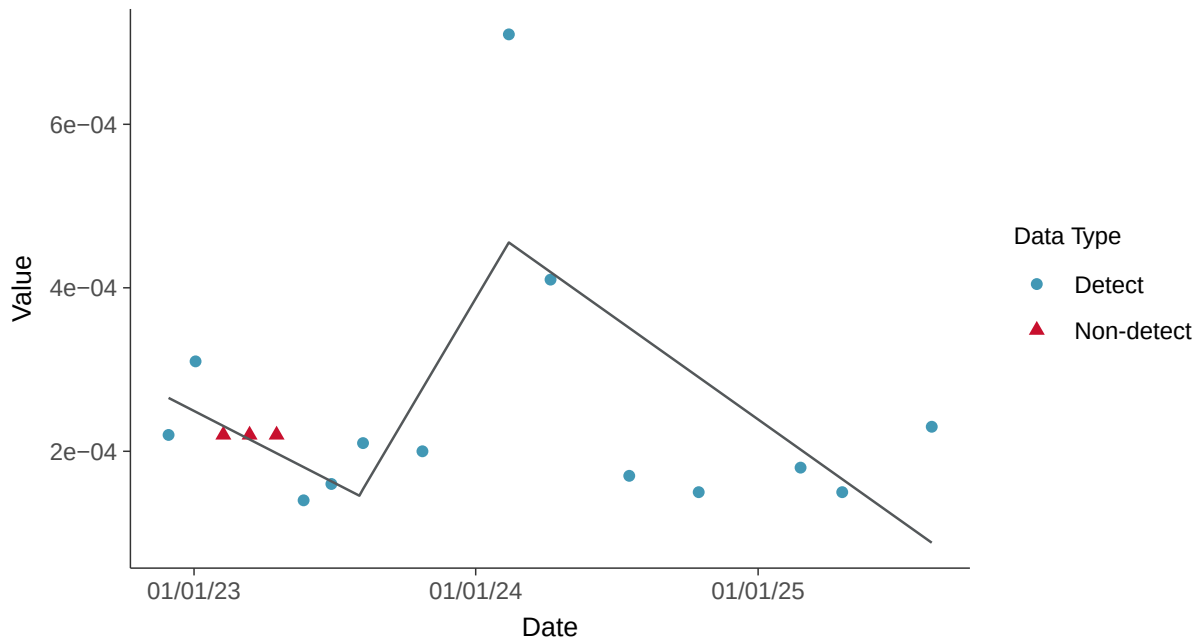
Trend Regression: Piecewise Linear-Linear

Selenium, MW-11 (mg/L)



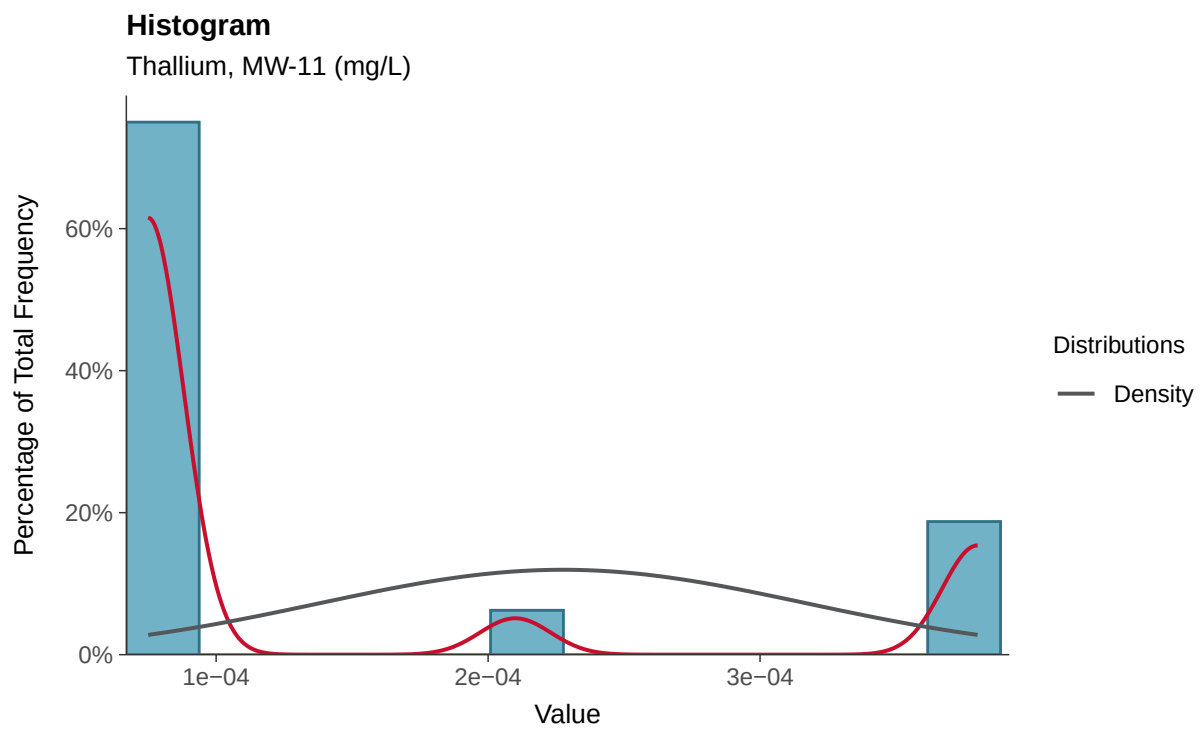
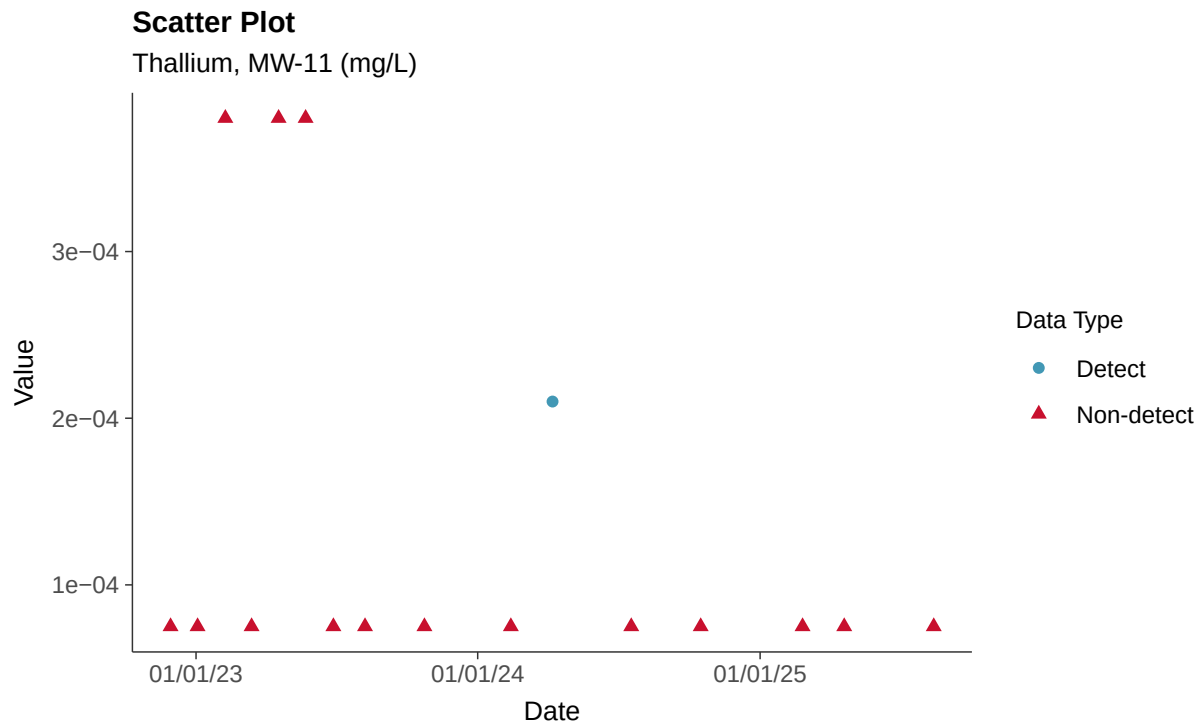
Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-11 (mg/L)



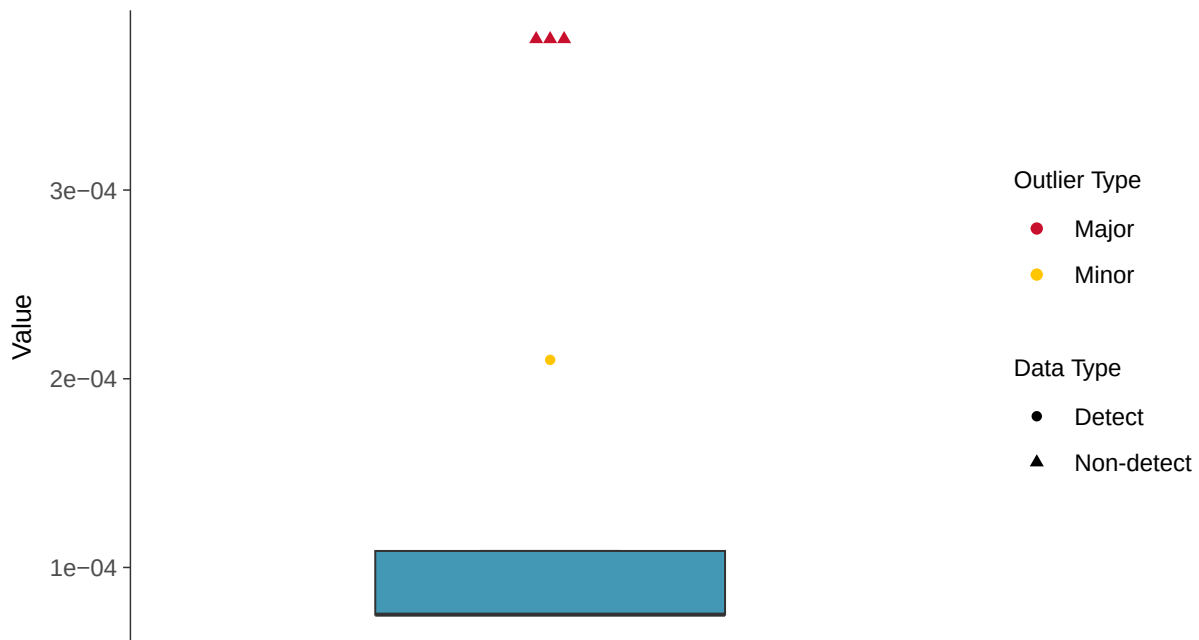
Appendix IV: Thallium, MW-11

ID: 21_2_4_125



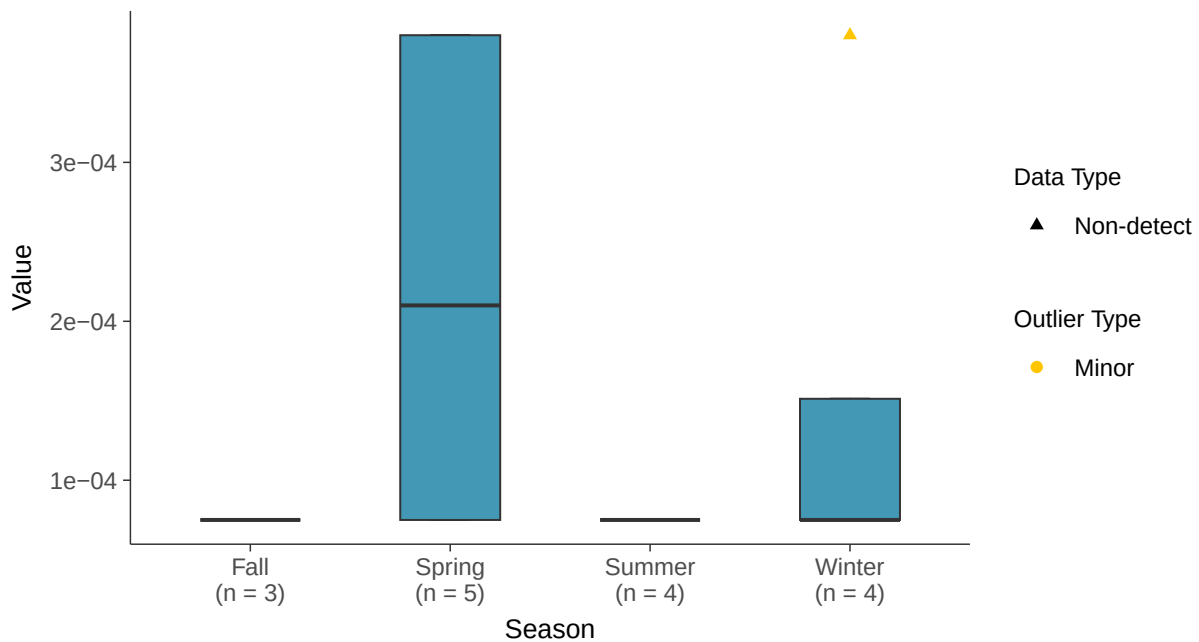
Boxplot

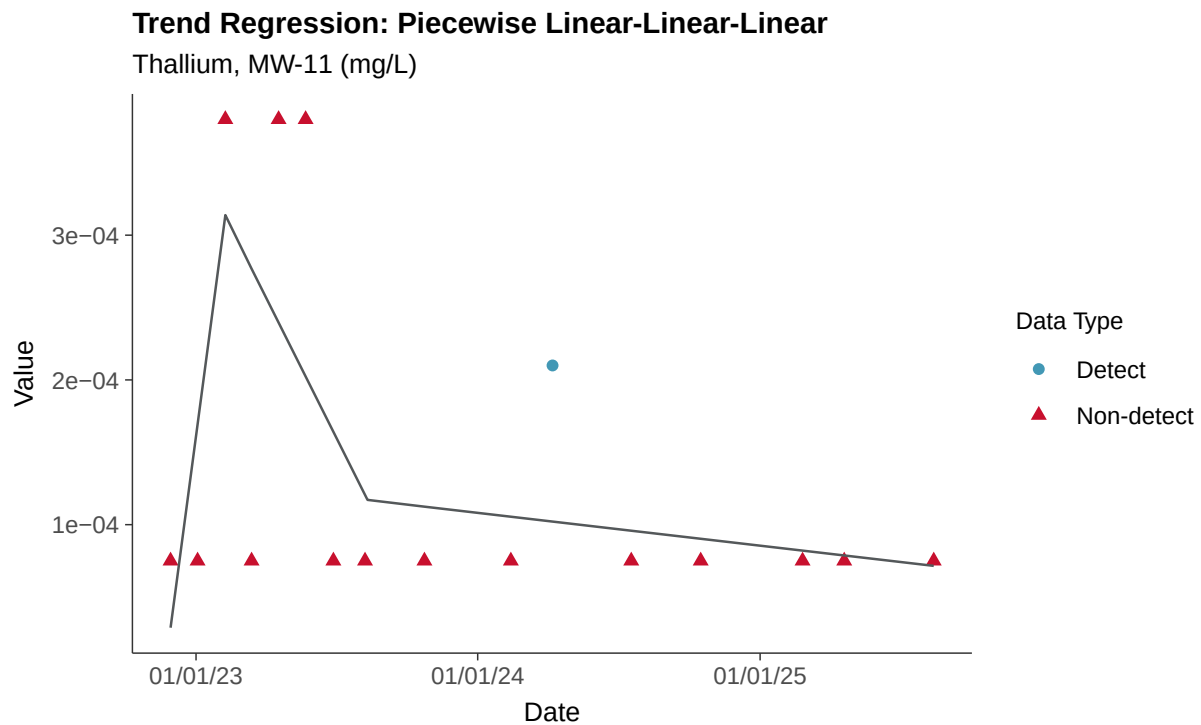
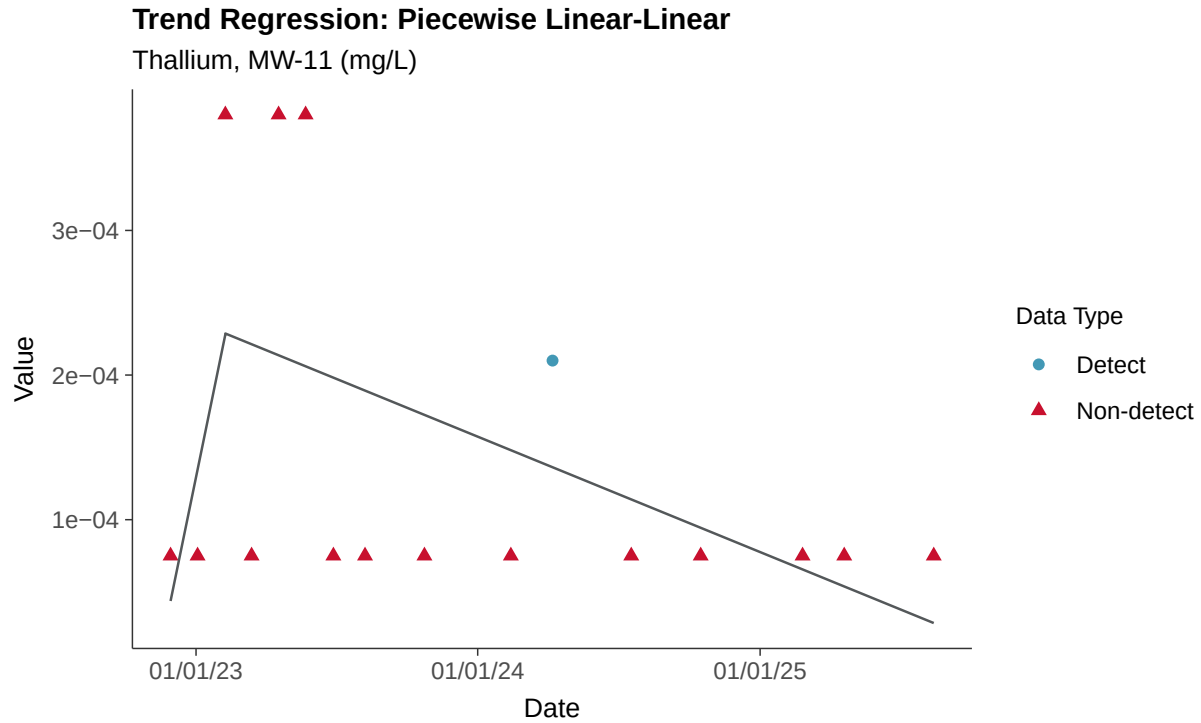
Thallium, MW-11 (mg/L)



Boxplot by Season

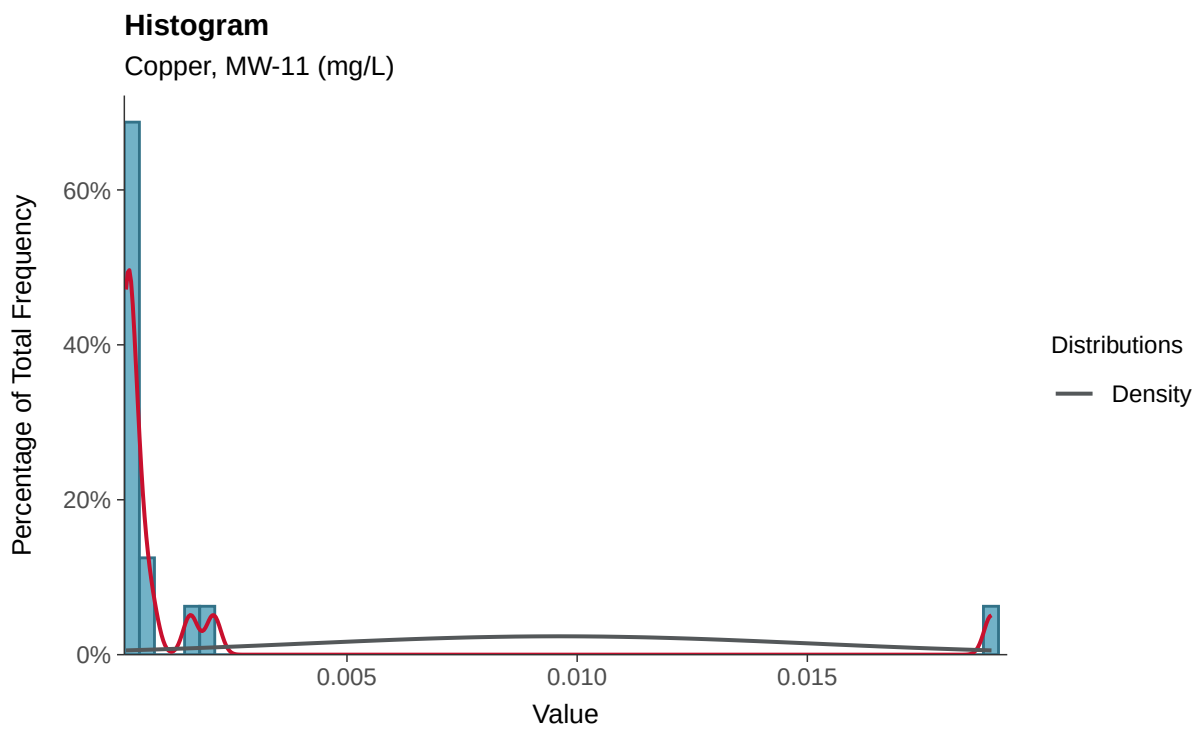
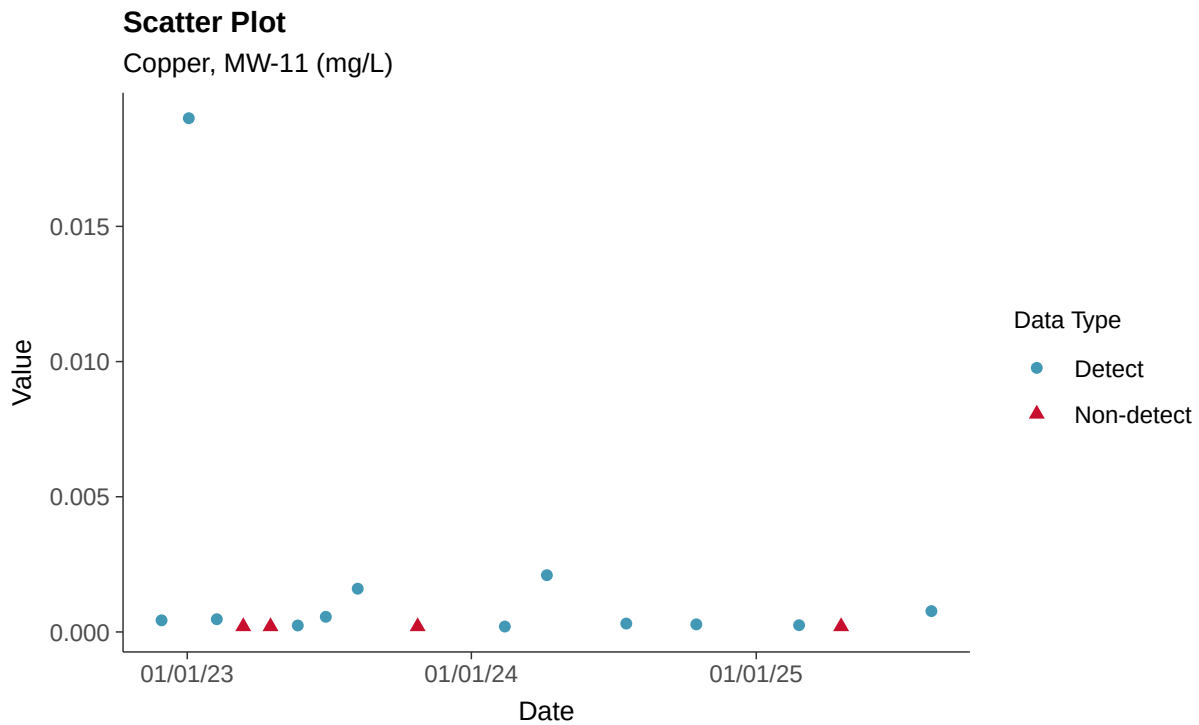
Thallium, MW-11 (mg/L)

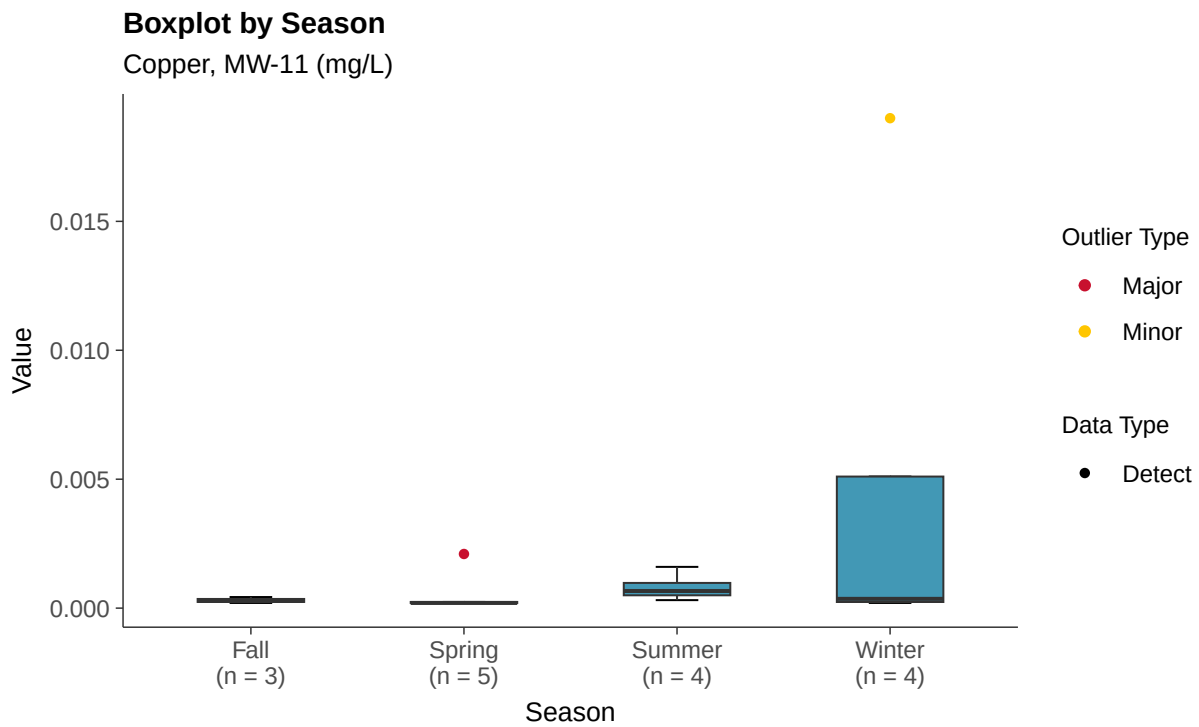
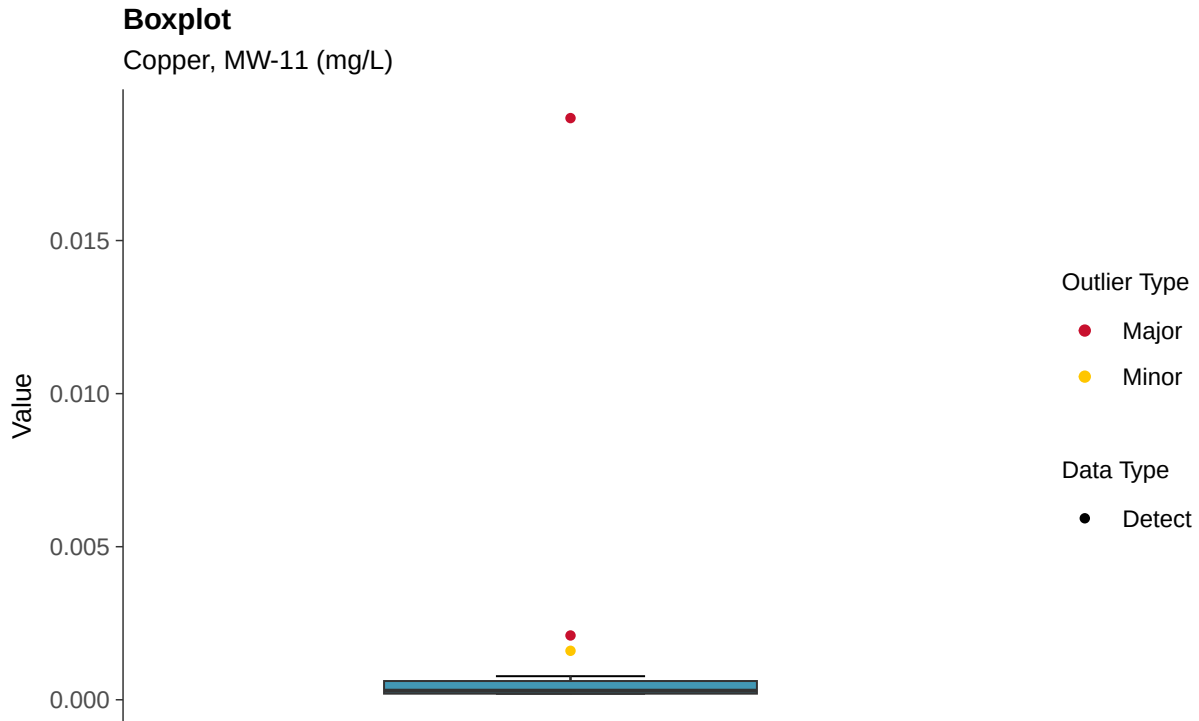




Part 115: Copper, MW-11

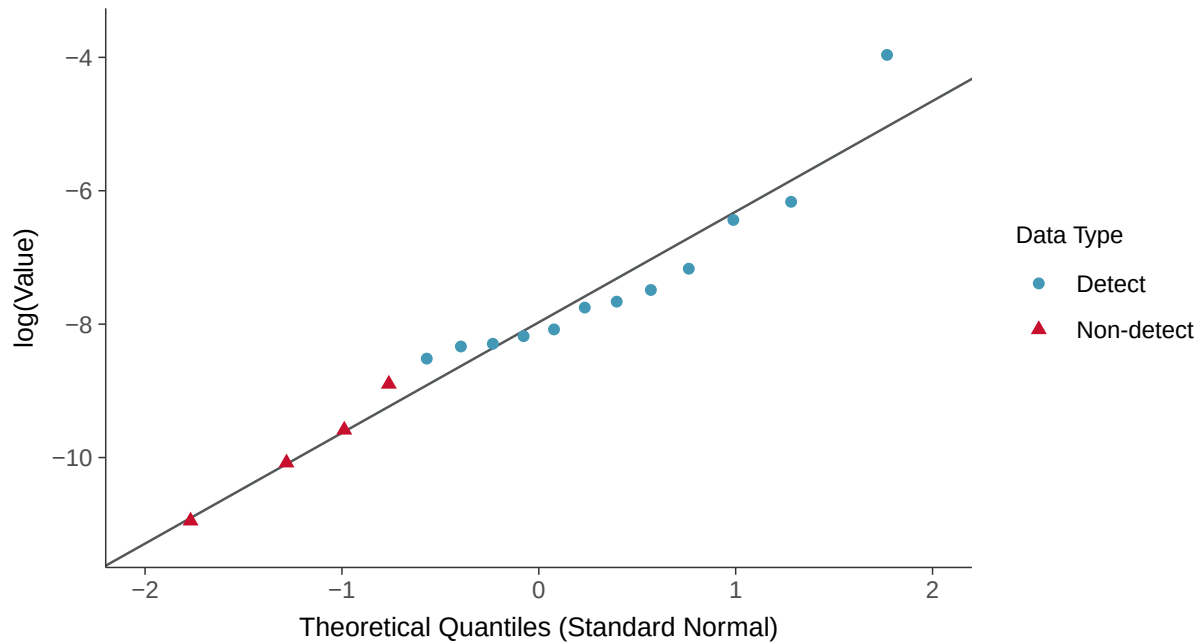
ID: 21_2_5_111





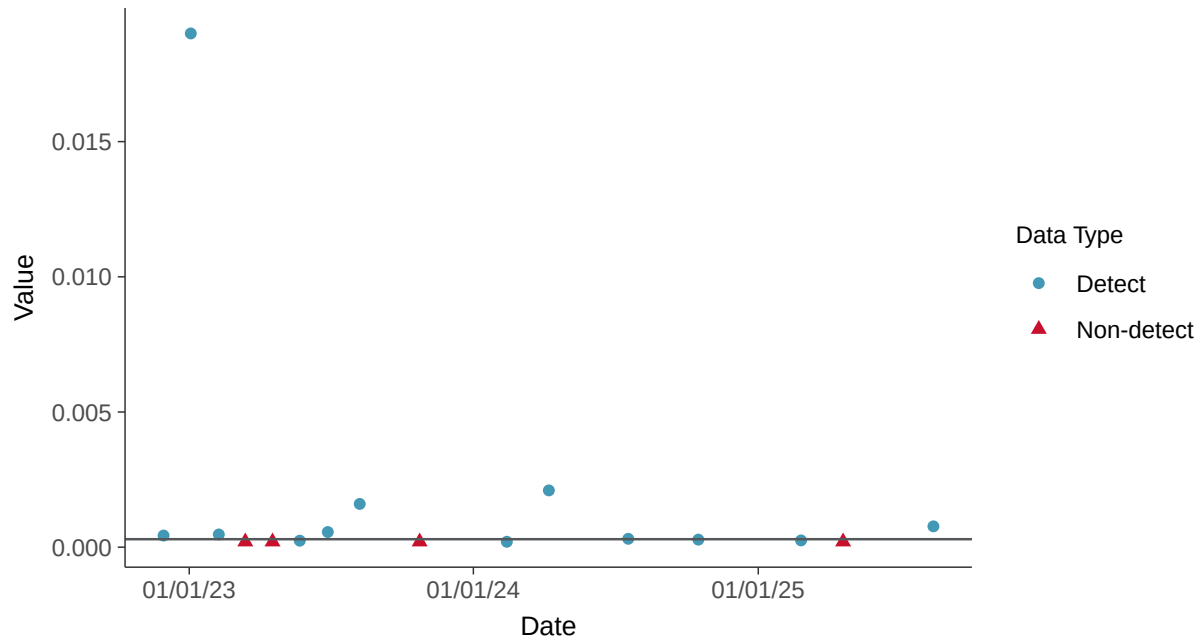
Lognormal Q-Q plot using ROS Imputed Estimates

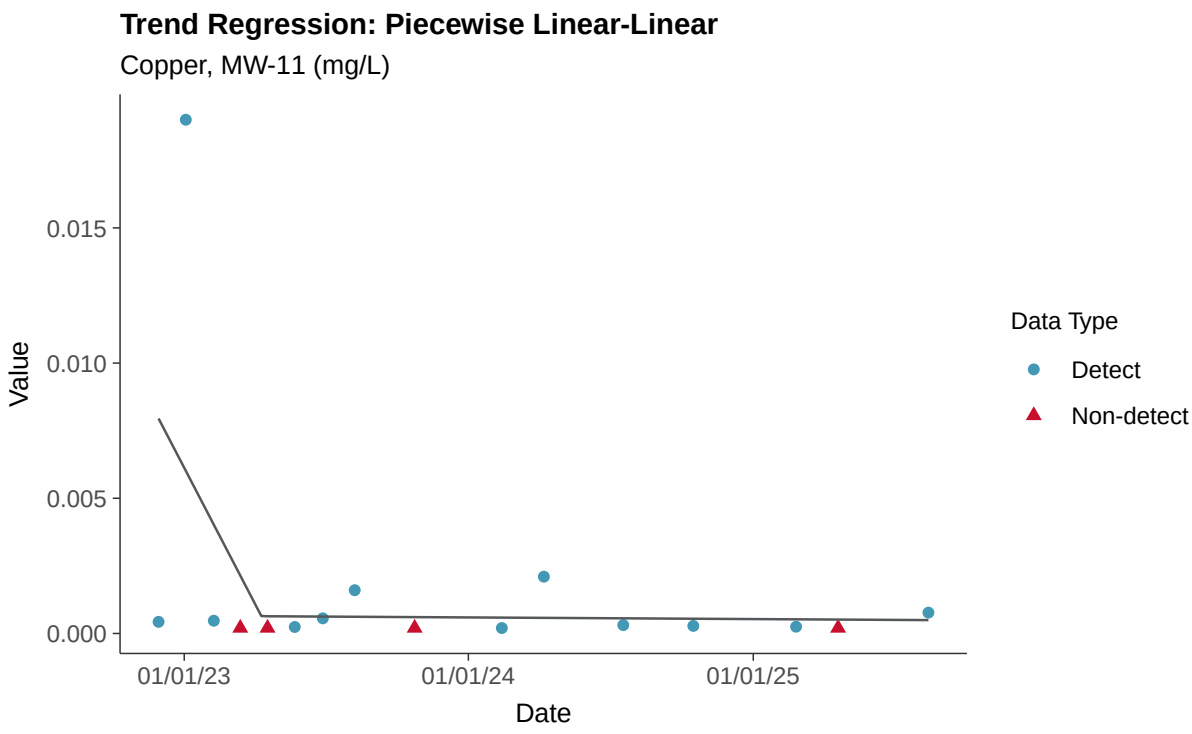
Copper, MW-11 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

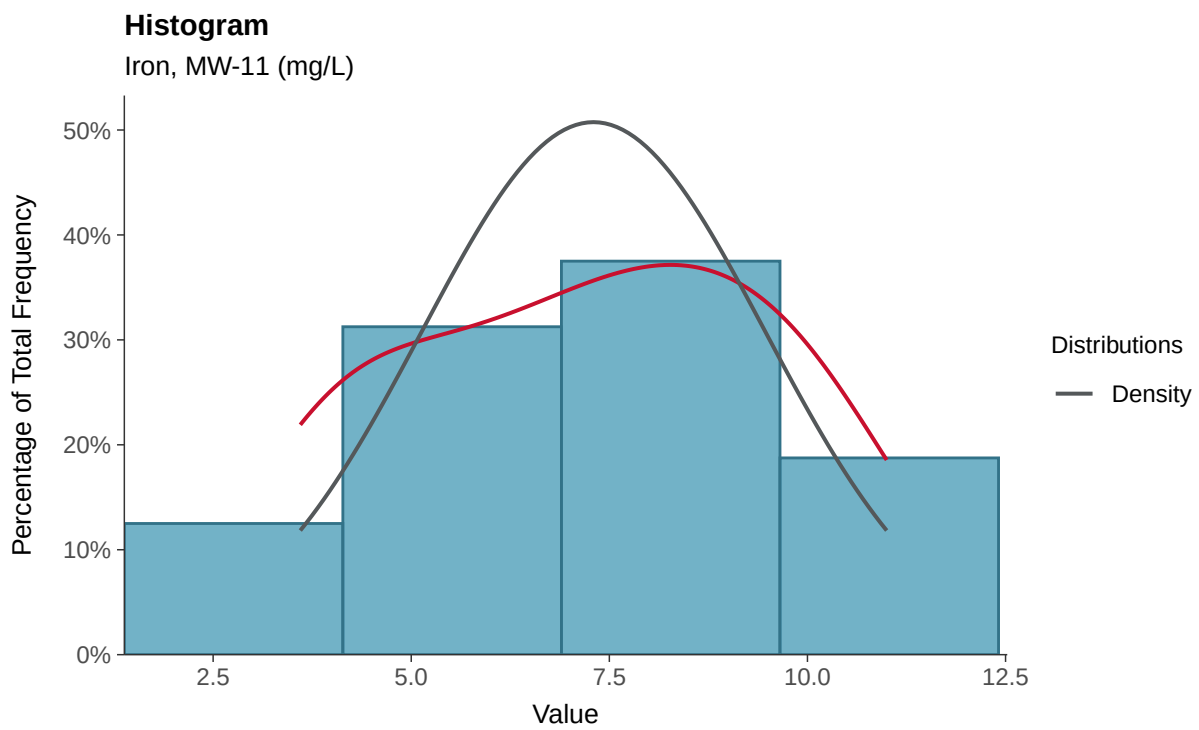
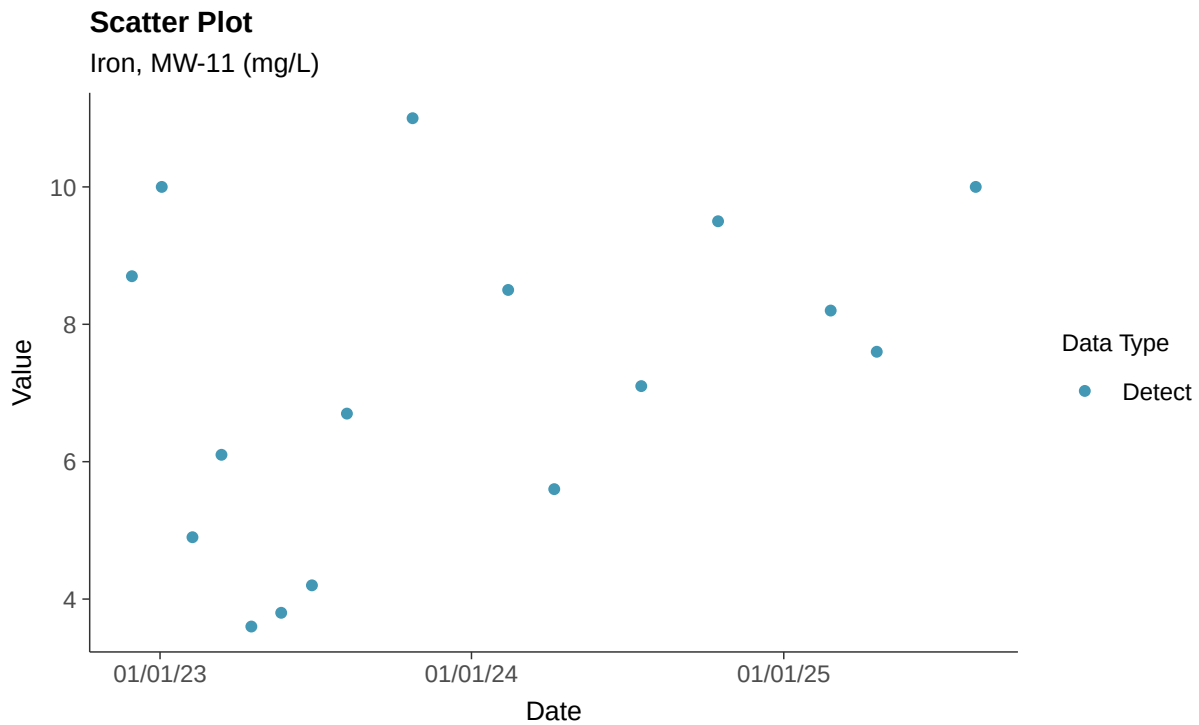
Copper, MW-11 (mg/L)





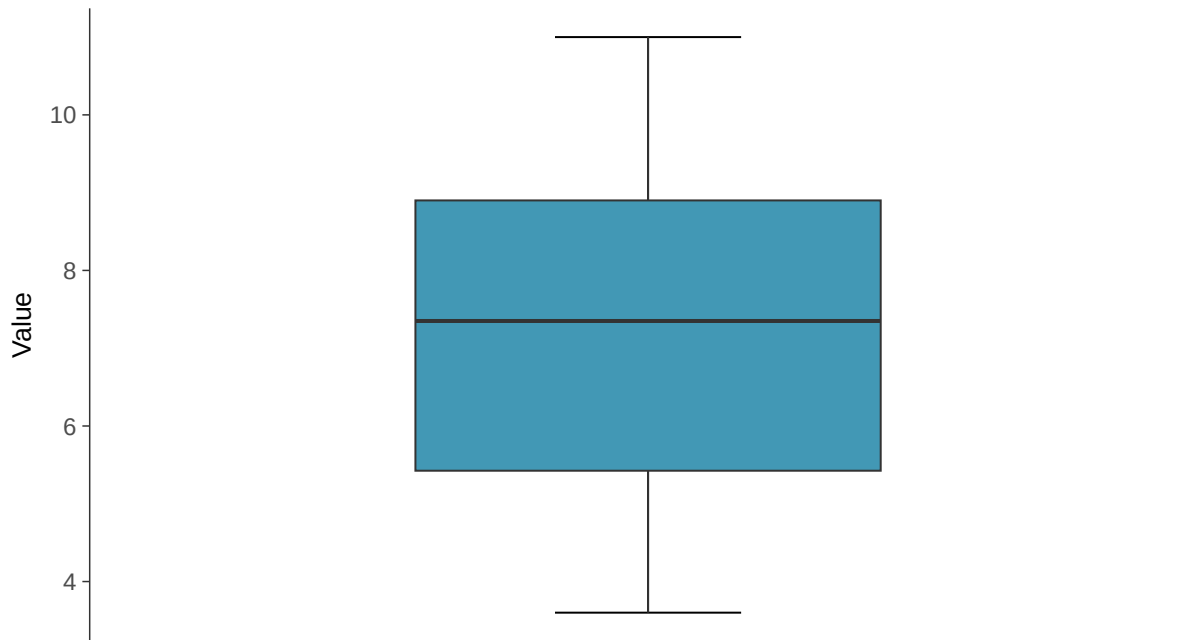
Part 115: Iron, MW-11

ID: 21_2_5_114



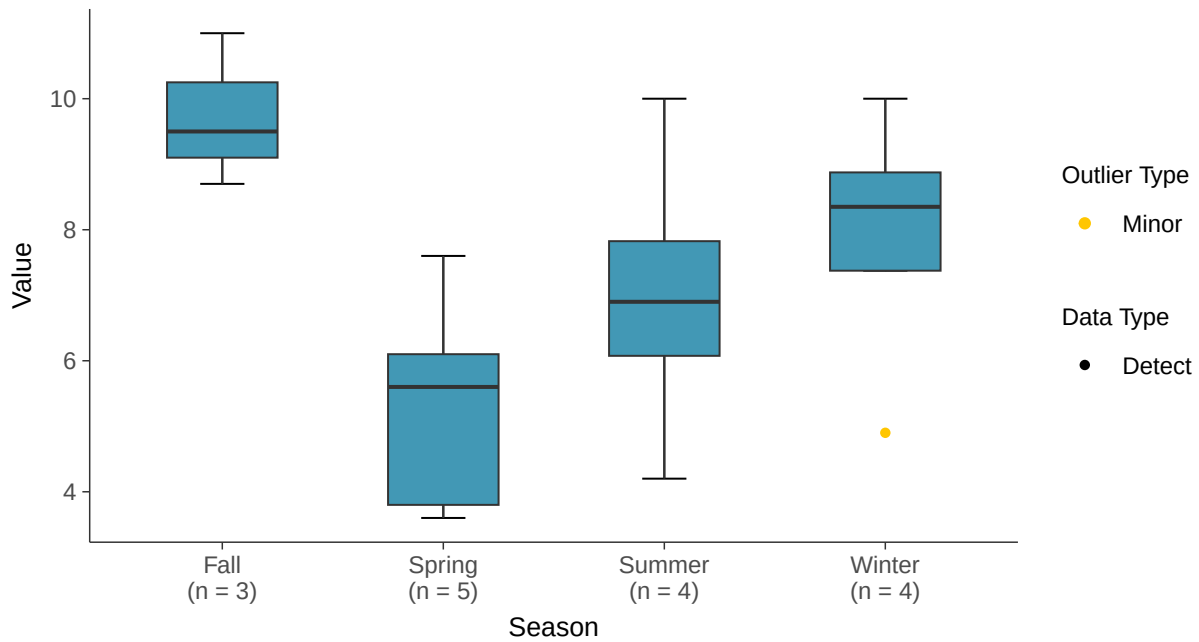
Boxplot

Iron, MW-11 (mg/L)



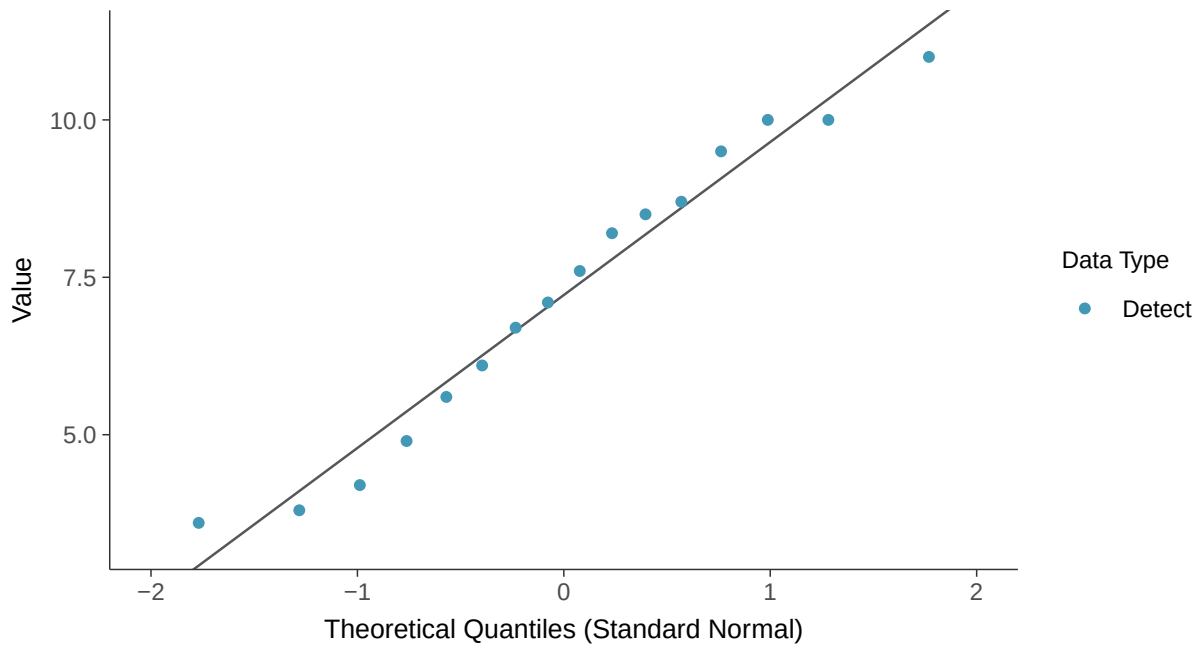
Boxplot by Season

Iron, MW-11 (mg/L)



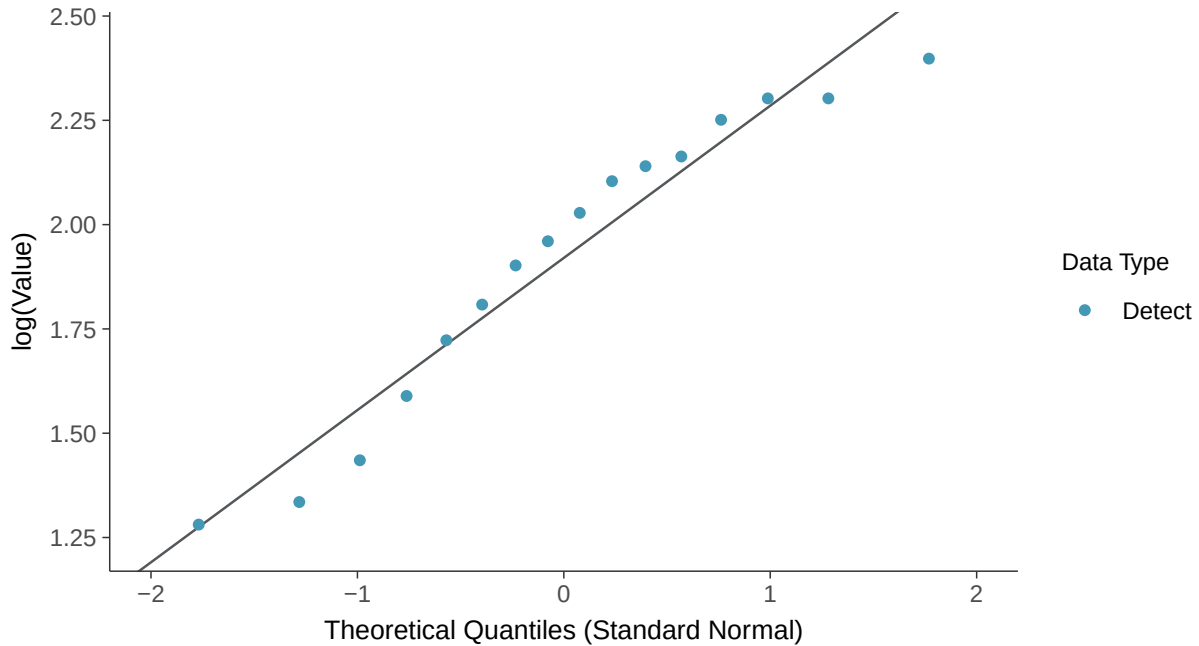
Normal Q-Q plot

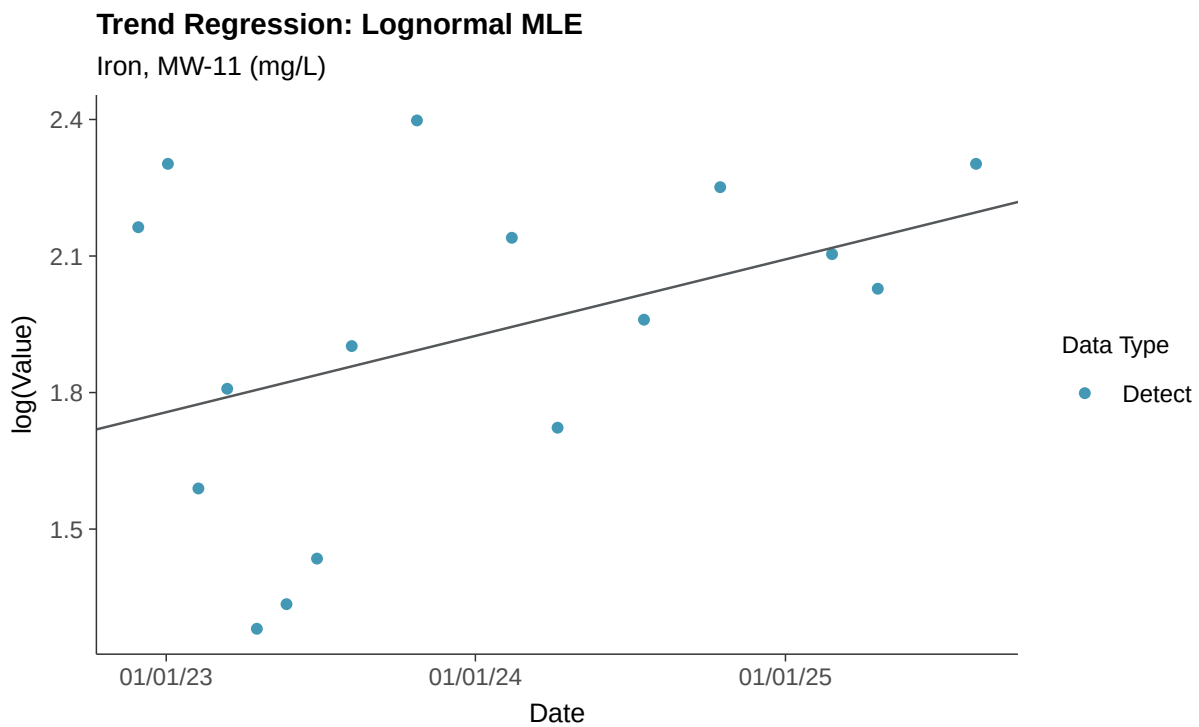
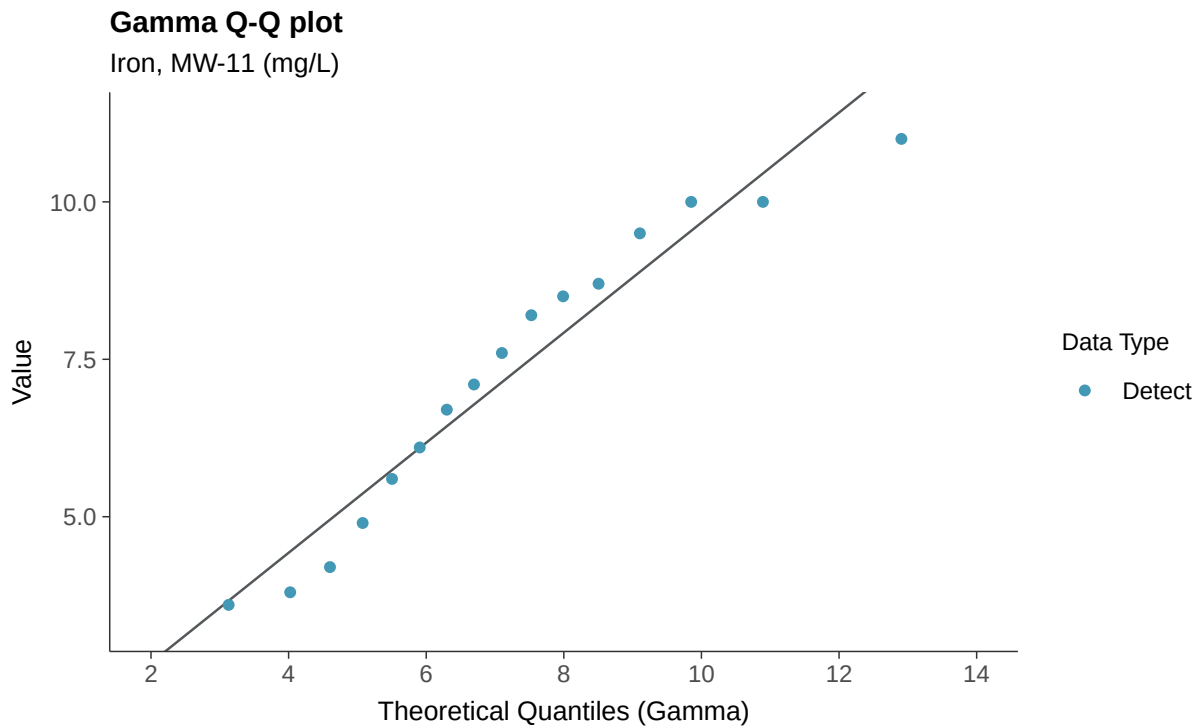
Iron, MW-11 (mg/L)



Lognormal Q-Q plot

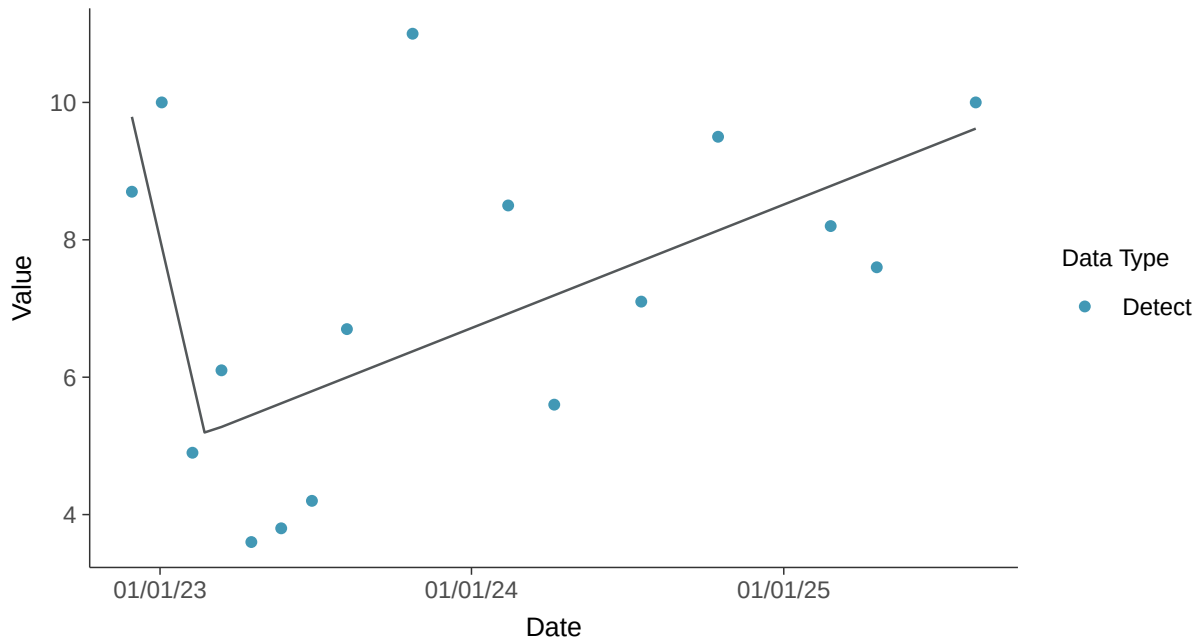
Iron, MW-11 (mg/L)





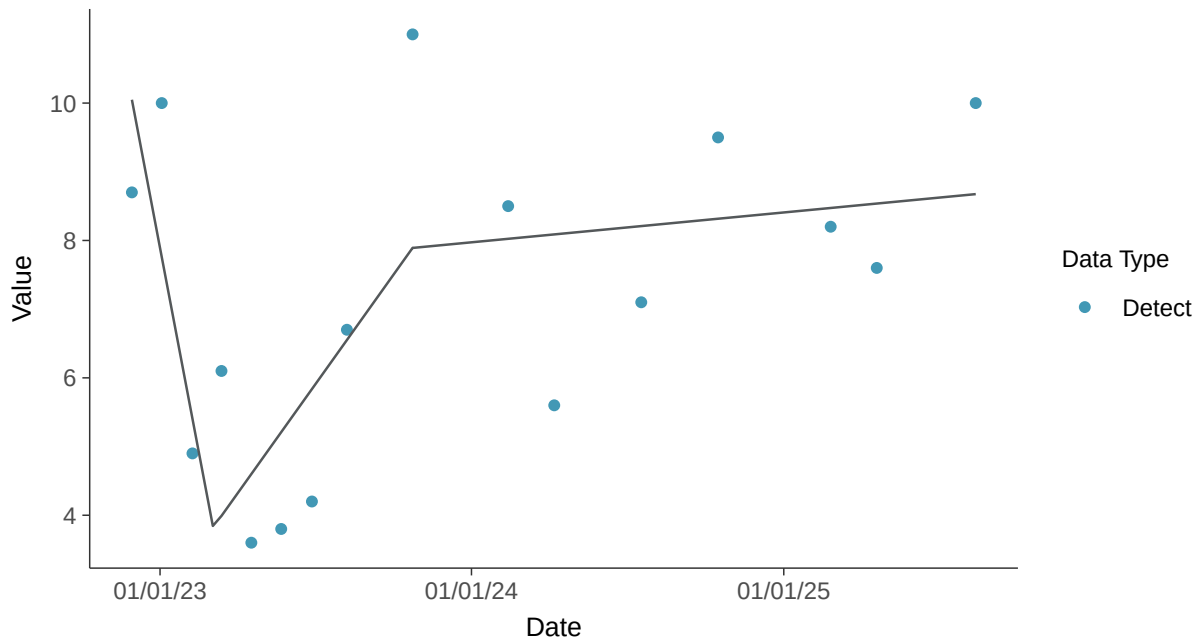
Trend Regression: Piecewise Linear-Linear

Iron, MW-11 (mg/L)



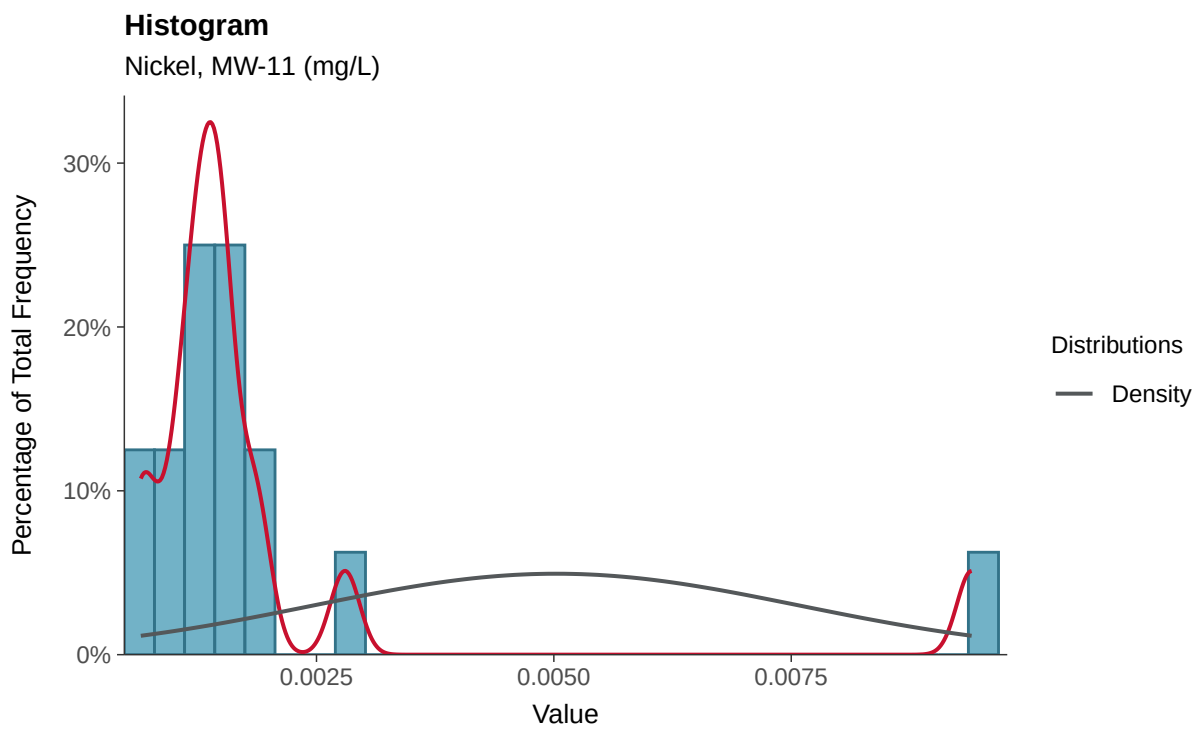
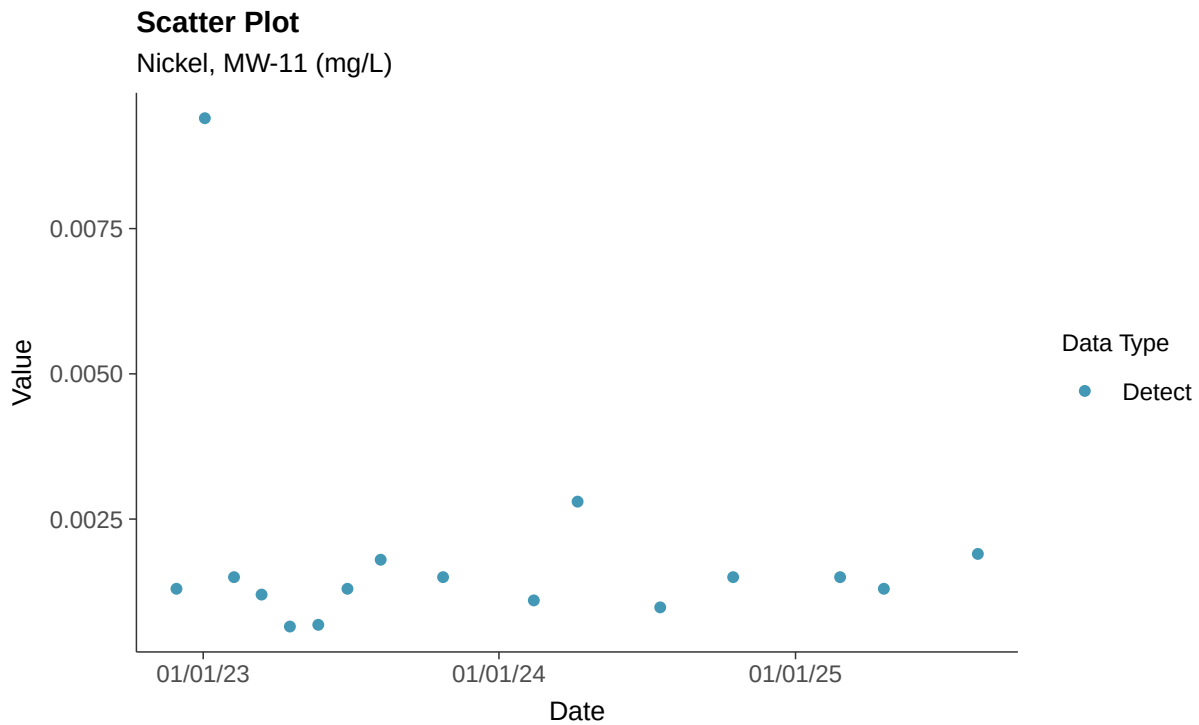
Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-11 (mg/L)



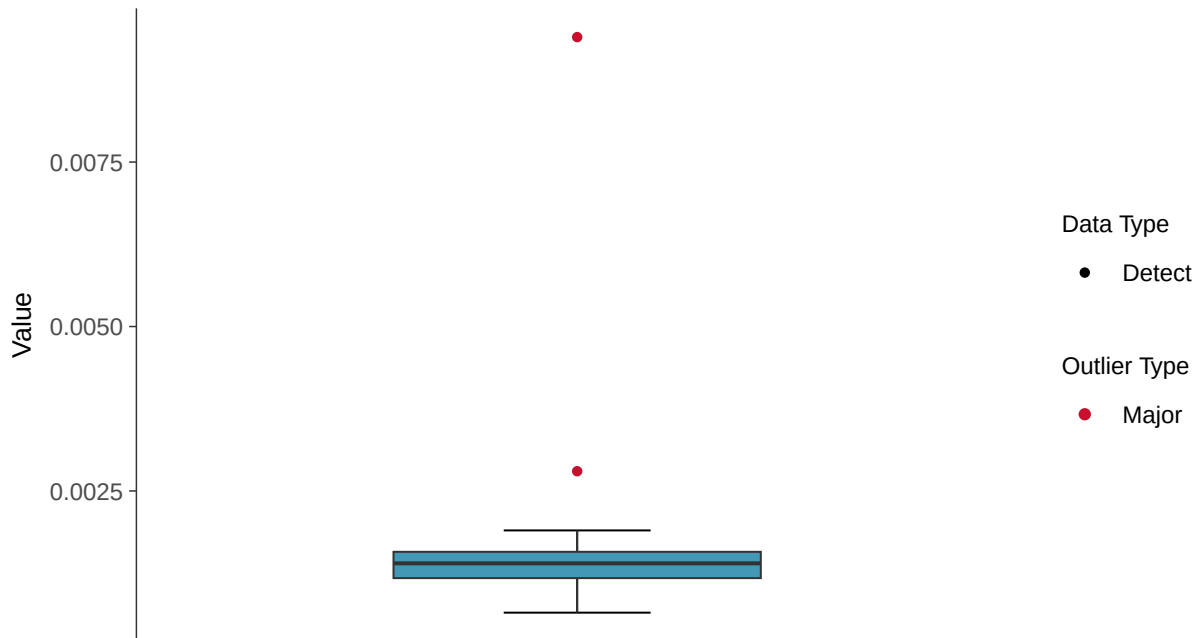
Part 115: Nickel, MW-11

ID: 21_2_5_119



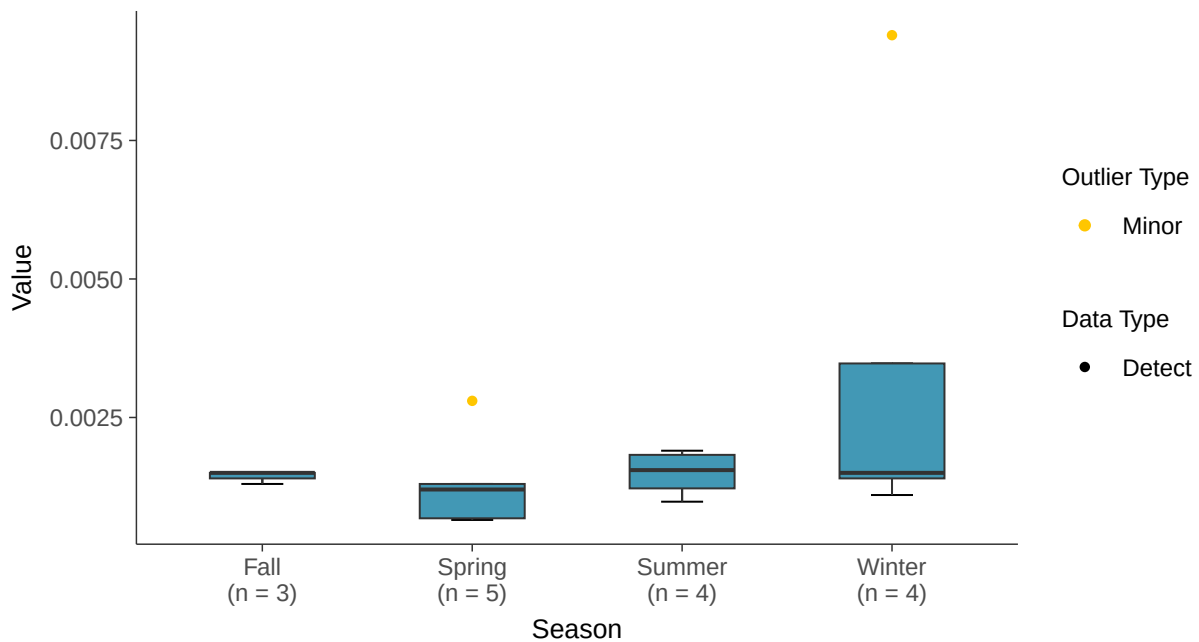
Boxplot

Nickel, MW-11 (mg/L)



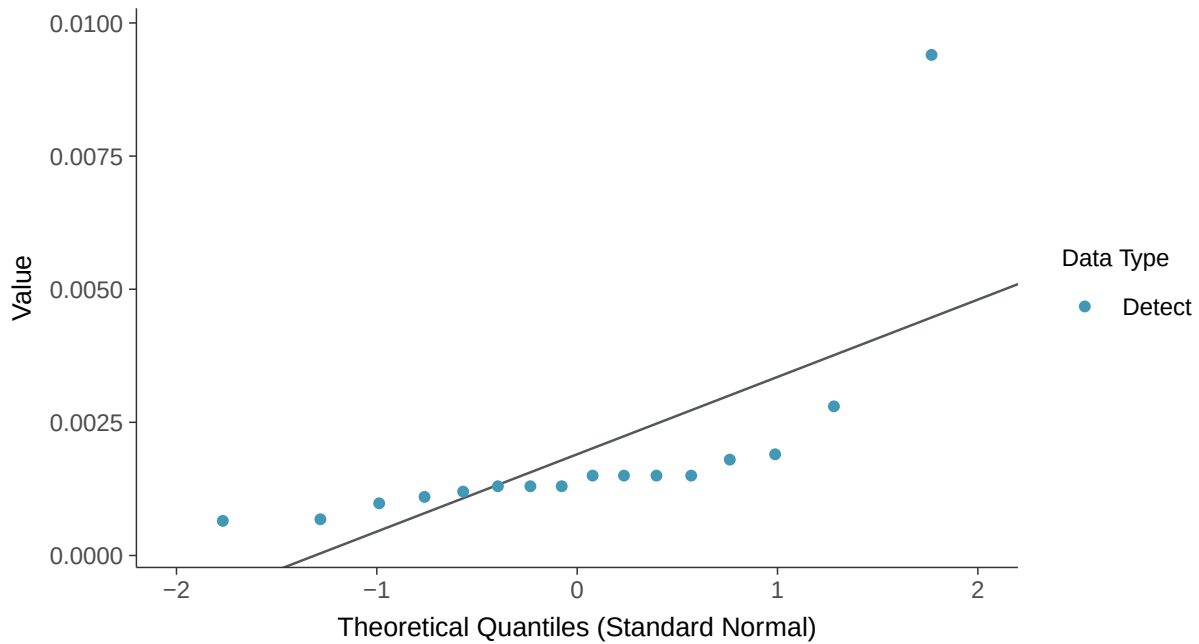
Boxplot by Season

Nickel, MW-11 (mg/L)



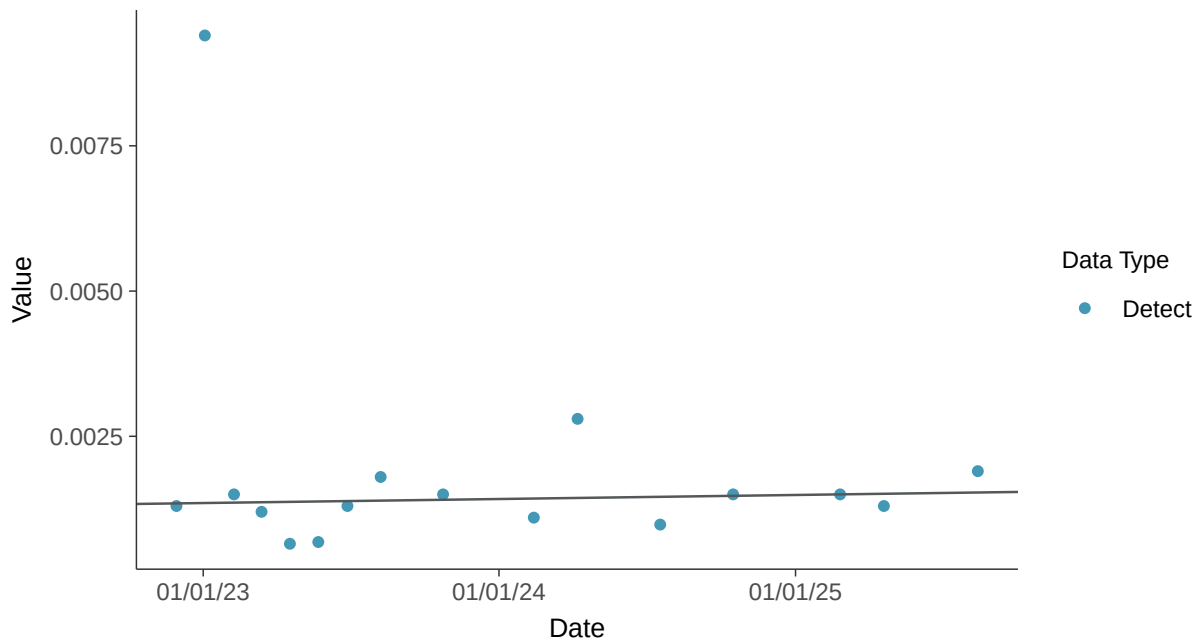
Normal Q-Q plot

Nickel, MW-11 (mg/L)



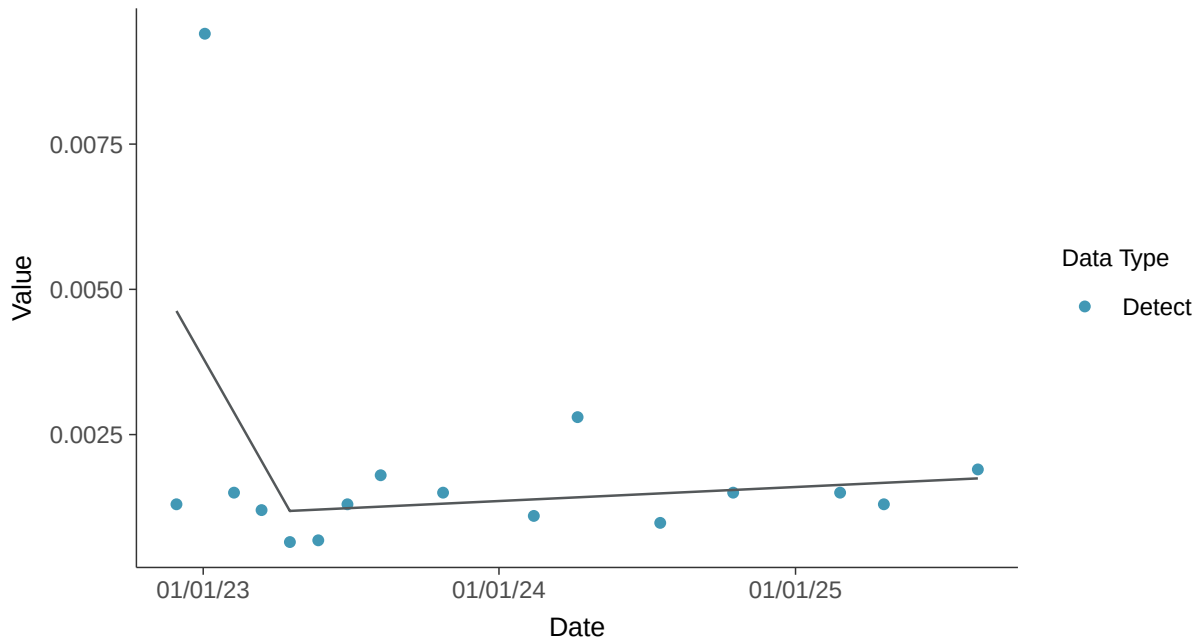
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-11 (mg/L)



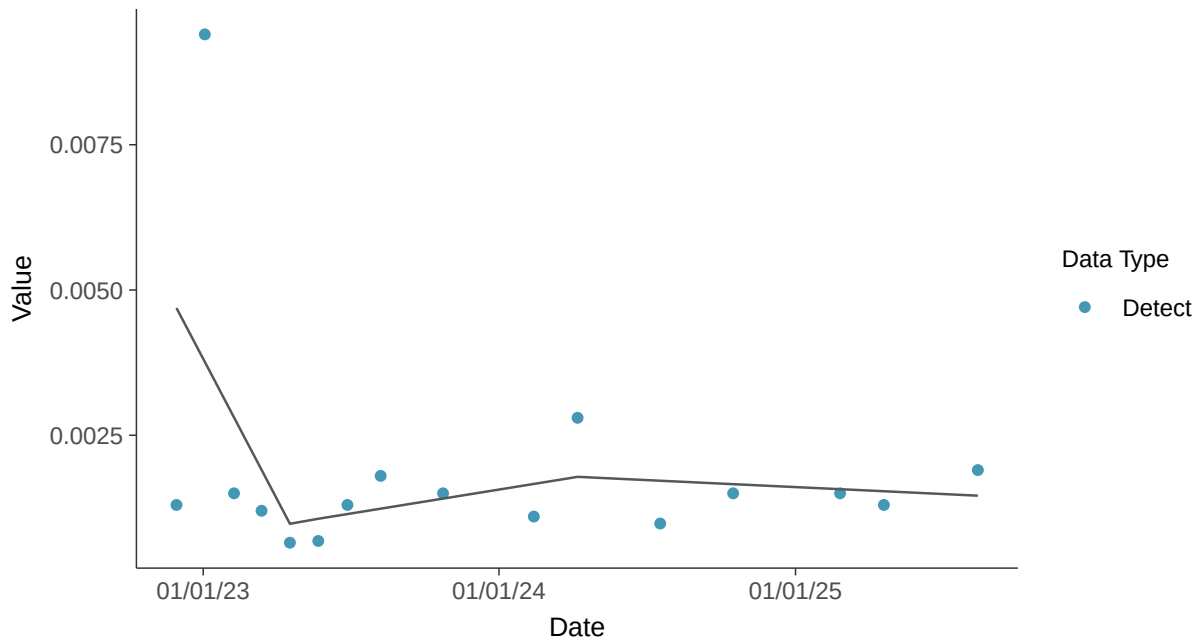
Trend Regression: Piecewise Linear-Linear

Nickel, MW-11 (mg/L)



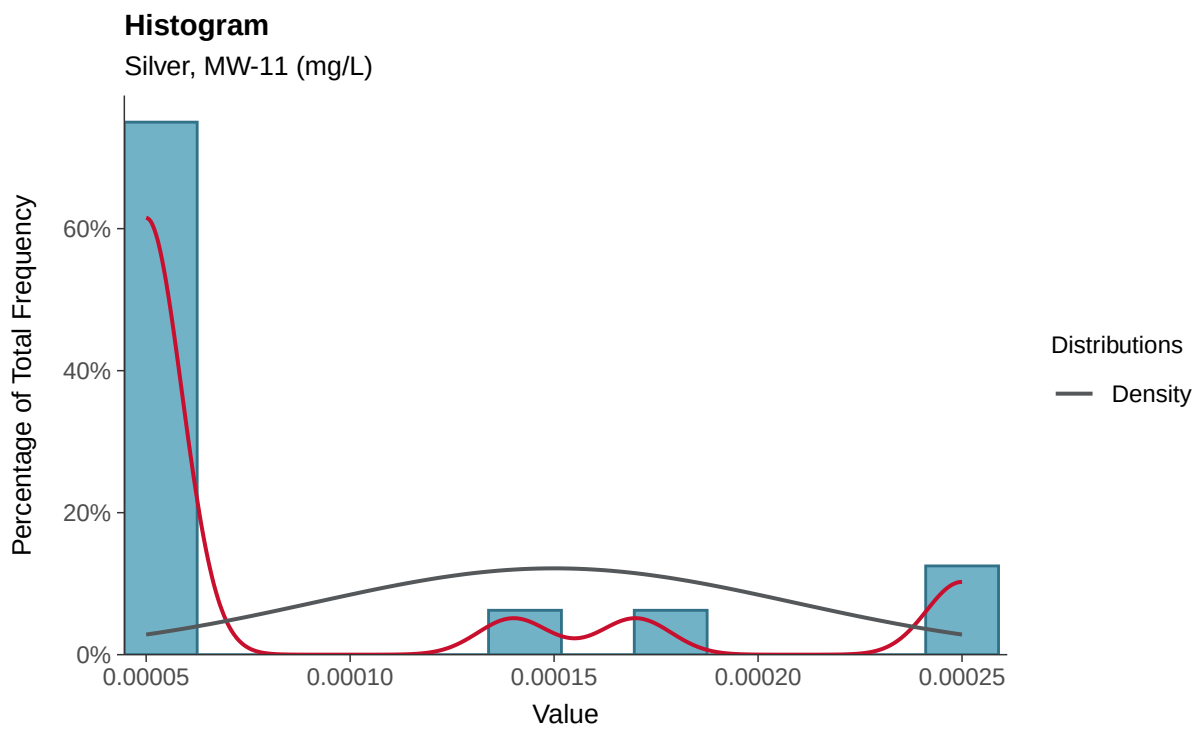
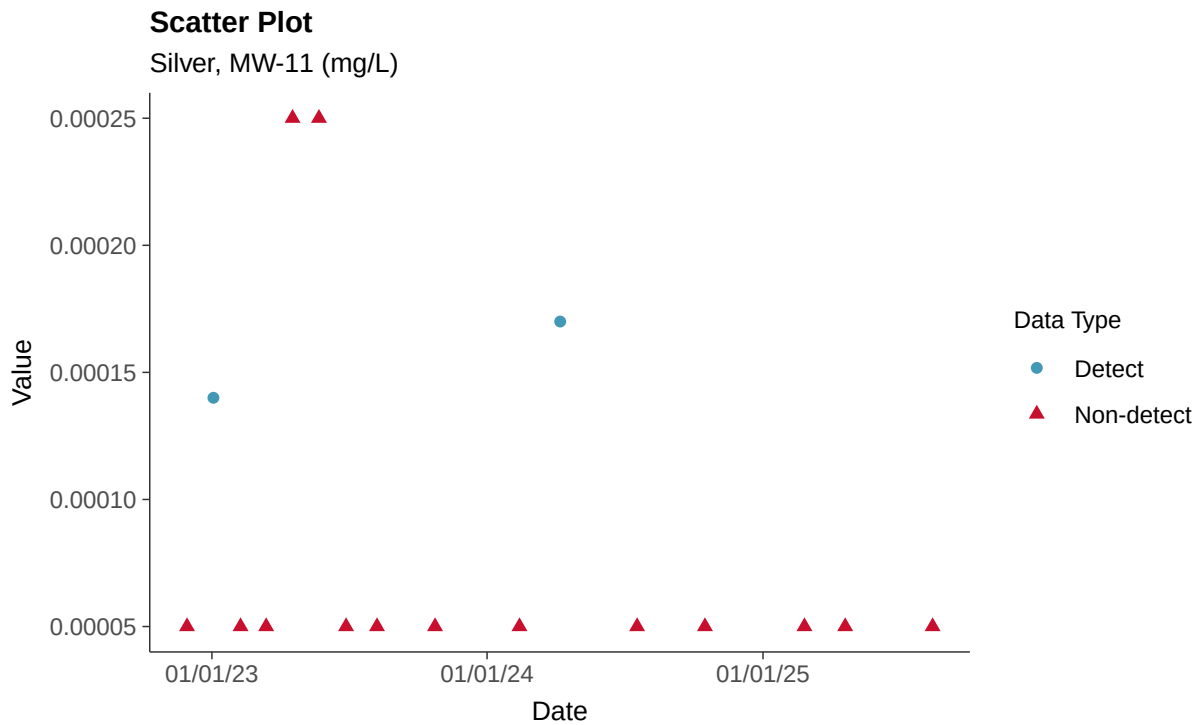
Trend Regression: Piecewise Linear-Linear-Linear

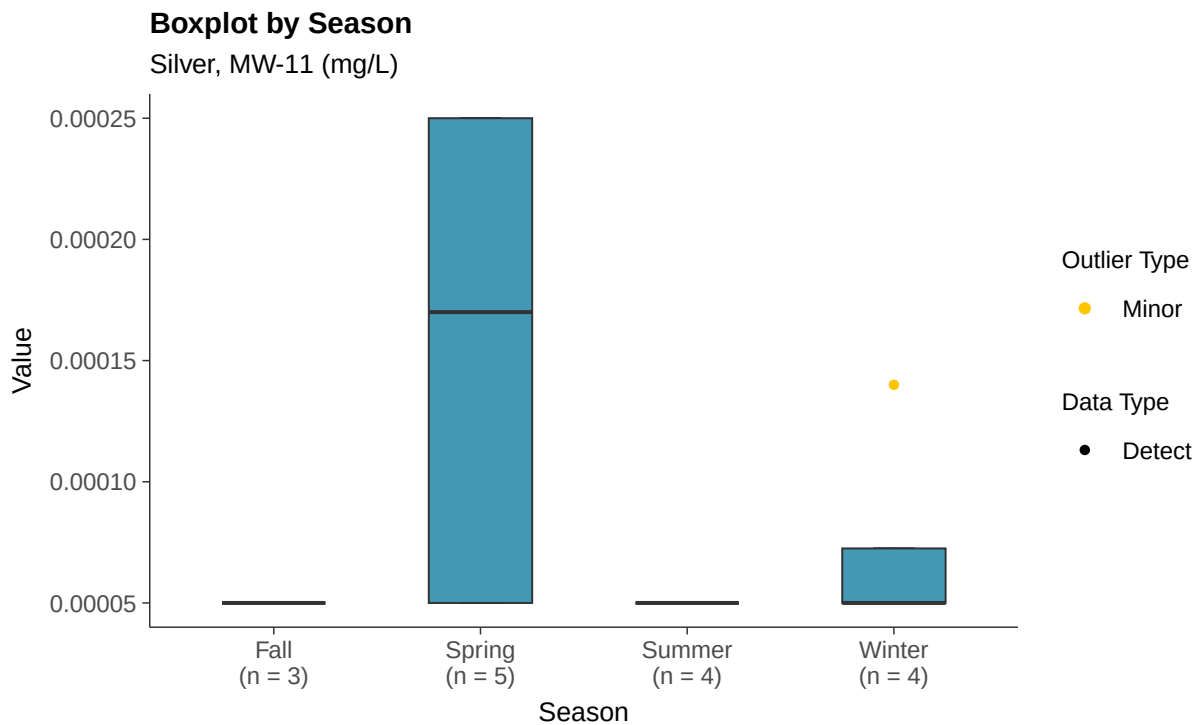
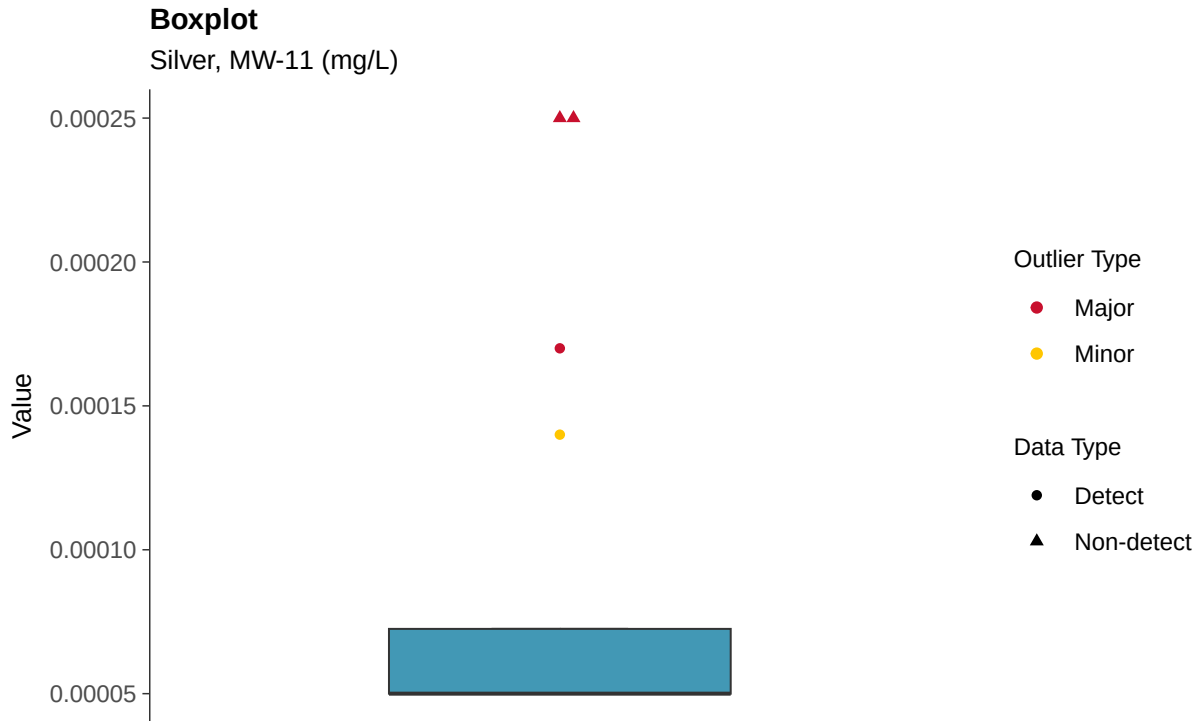
Nickel, MW-11 (mg/L)



Part 115: Silver, MW-11

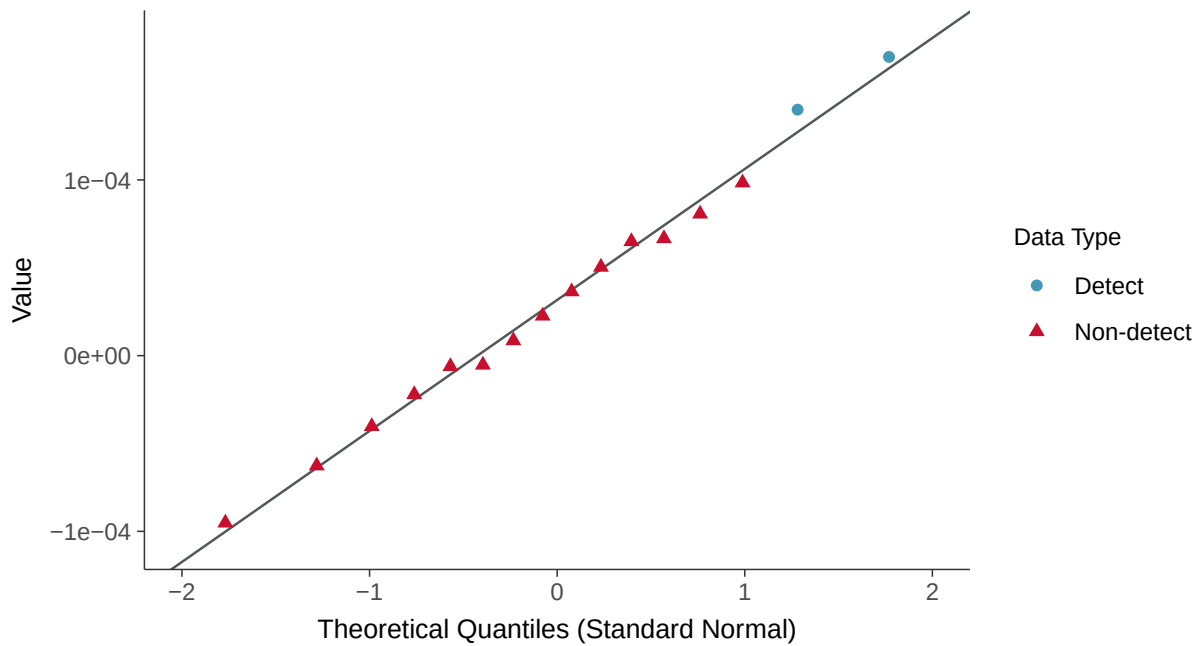
ID: 21_2_5_123





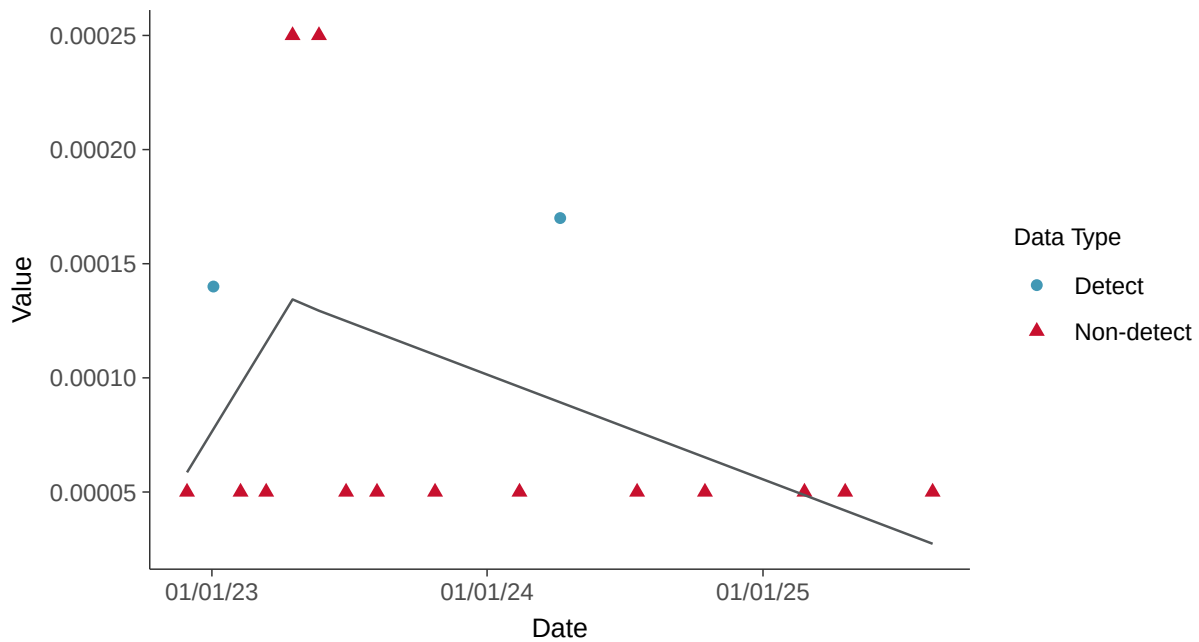
Normal Q-Q plot using ROS Imputed Estimates

Silver, MW-11 (mg/L)

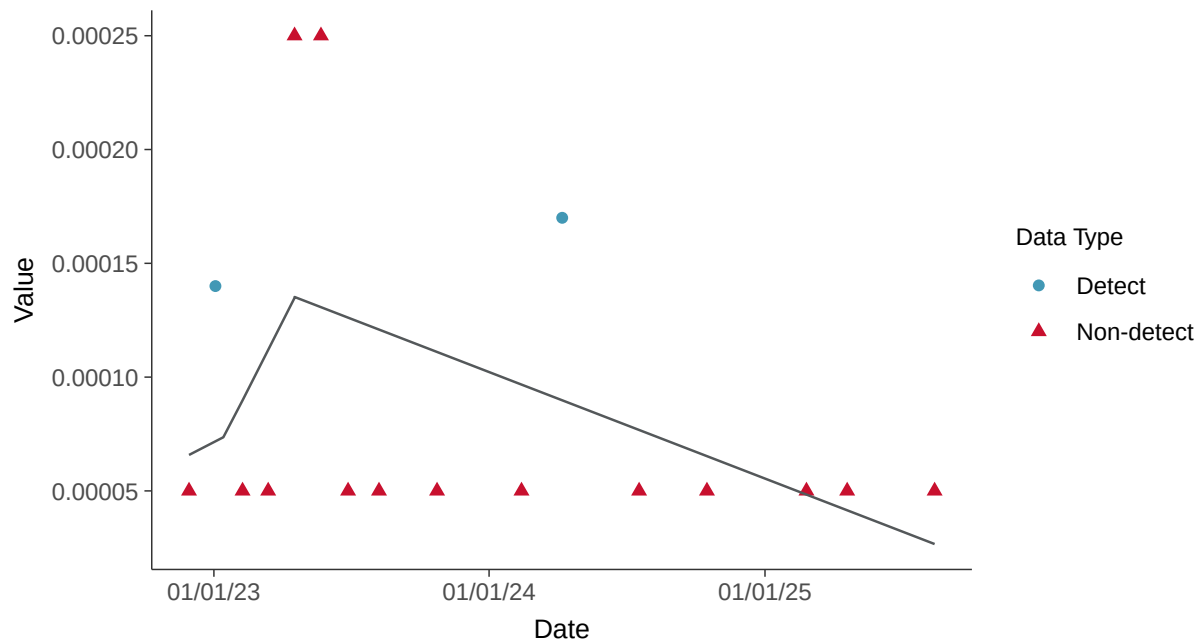


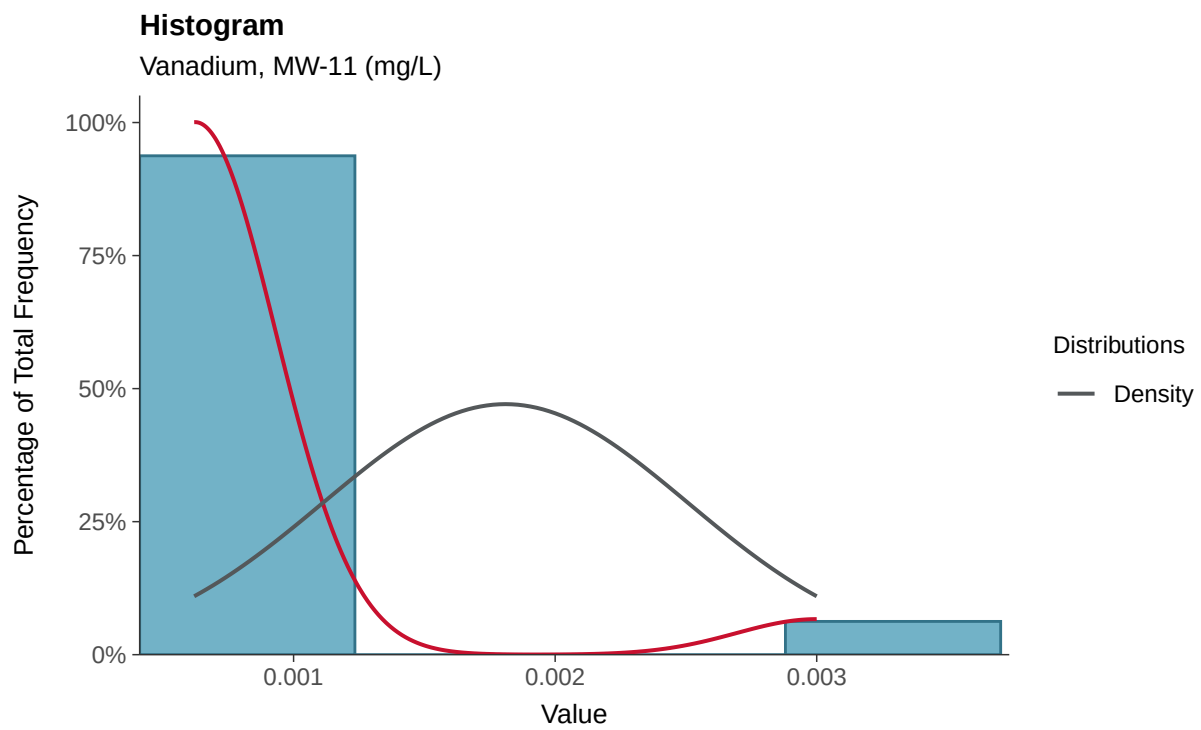
Trend Regression: Piecewise Linear-Linear

Silver, MW-11 (mg/L)



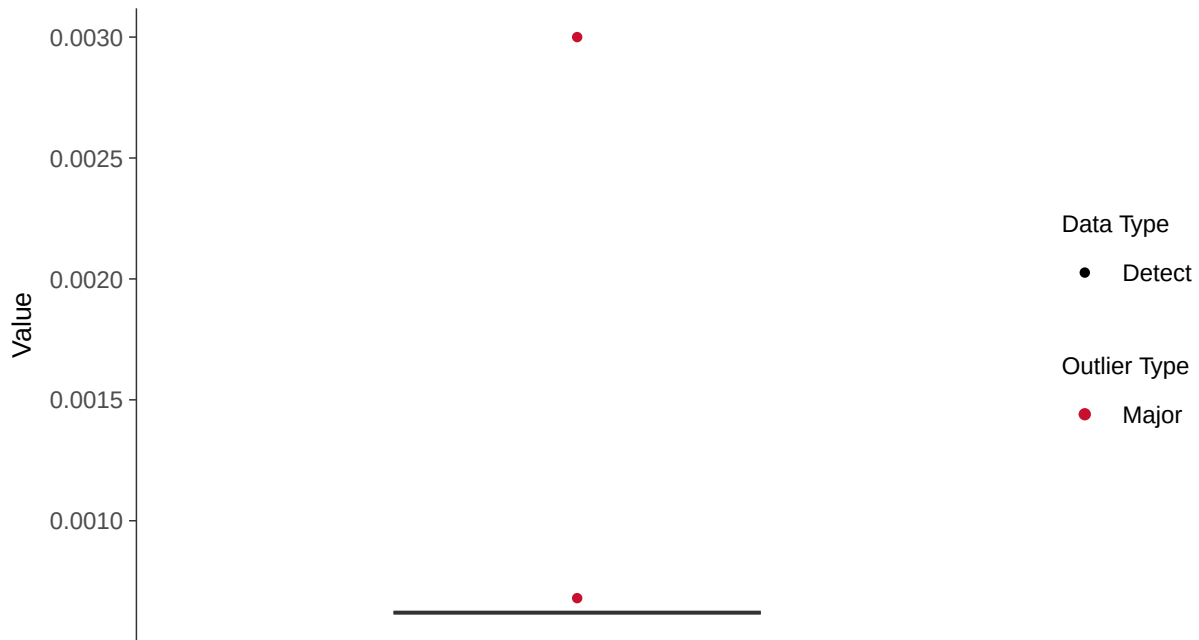
Silver, MW-11 (mg/L)





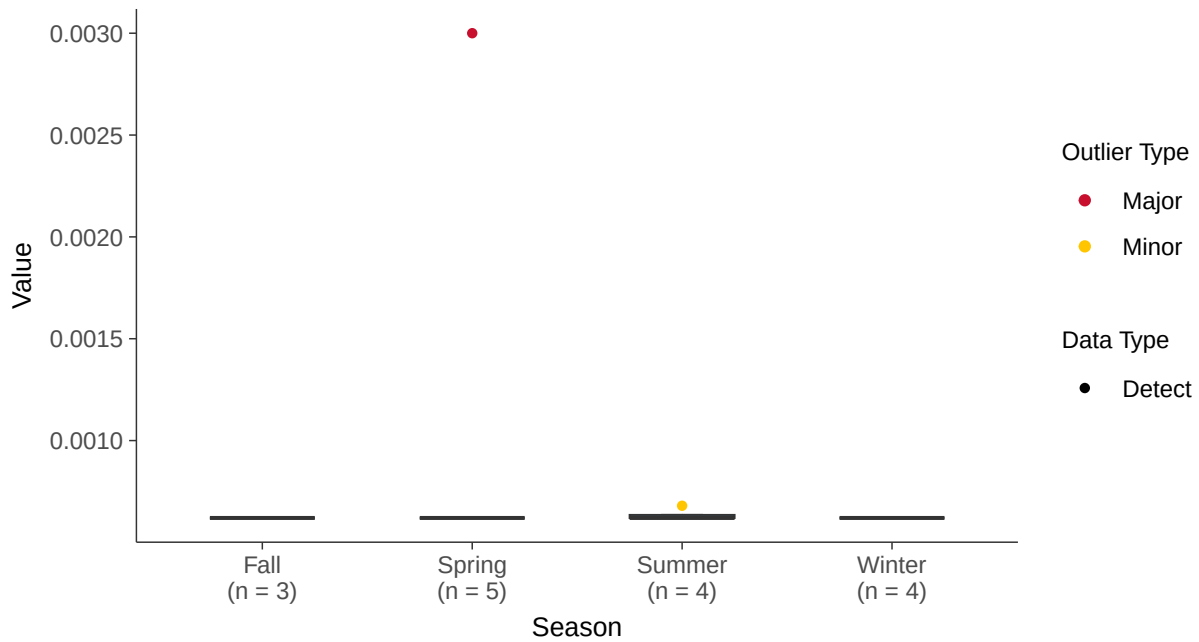
Boxplot

Vanadium, MW-11 (mg/L)

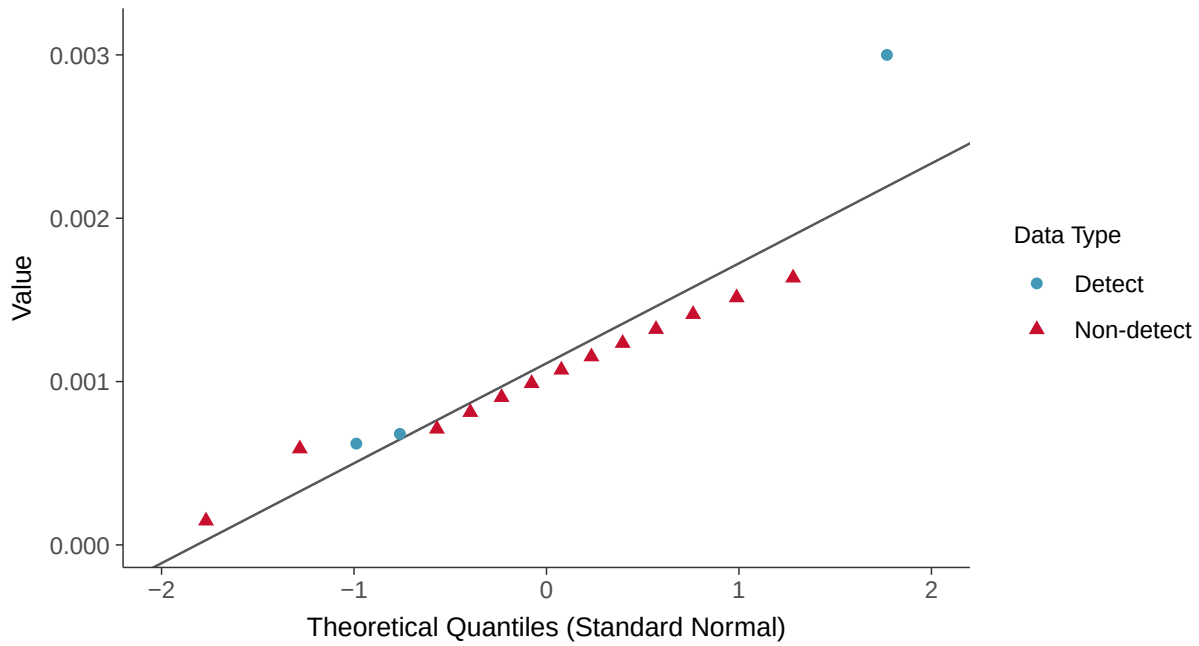


Boxplot by Season

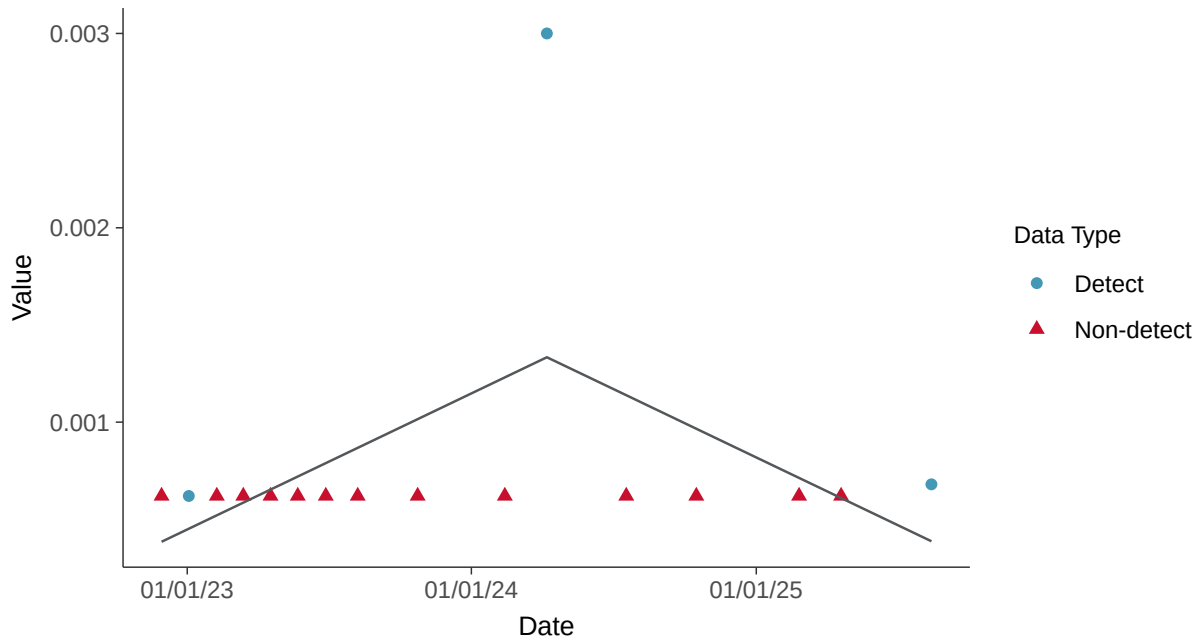
Vanadium, MW-11 (mg/L)



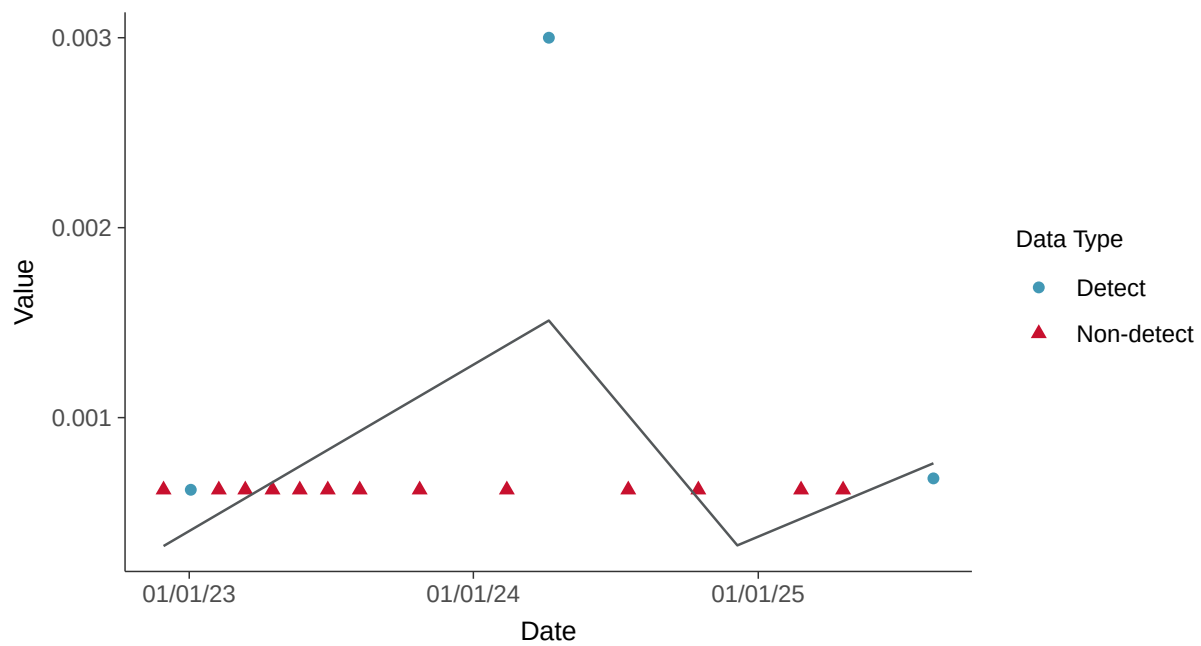
Vanadium, MW-11 (mg/L)

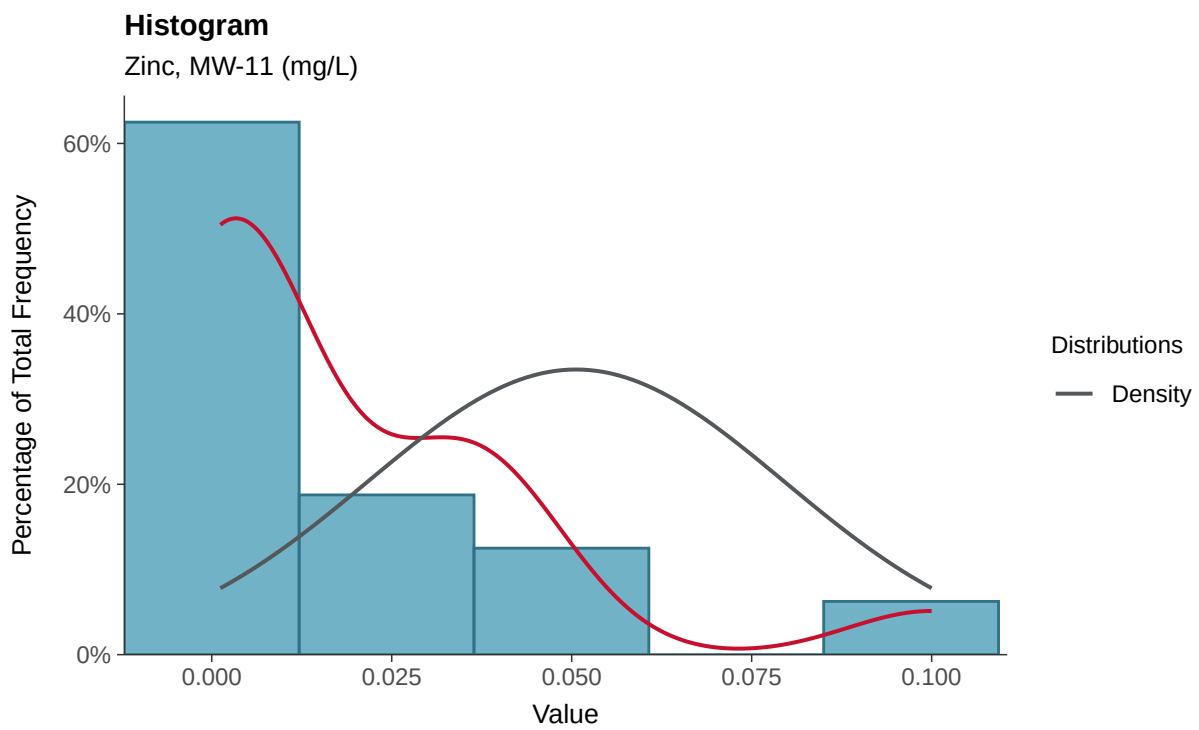


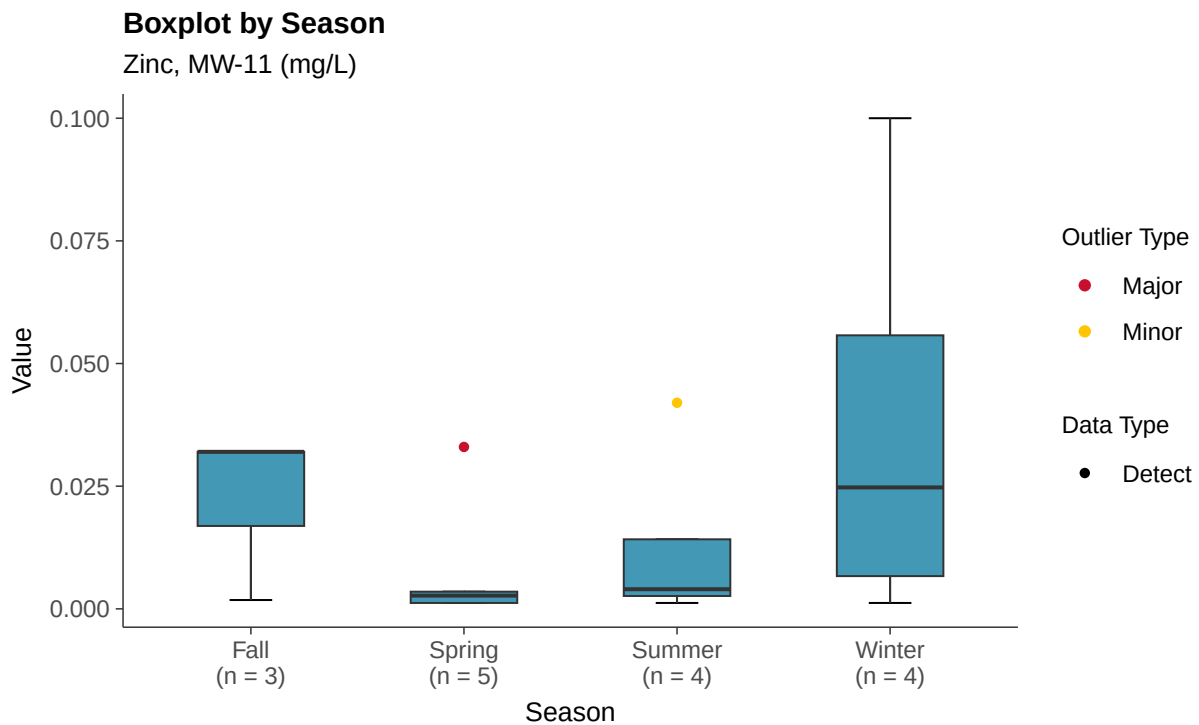
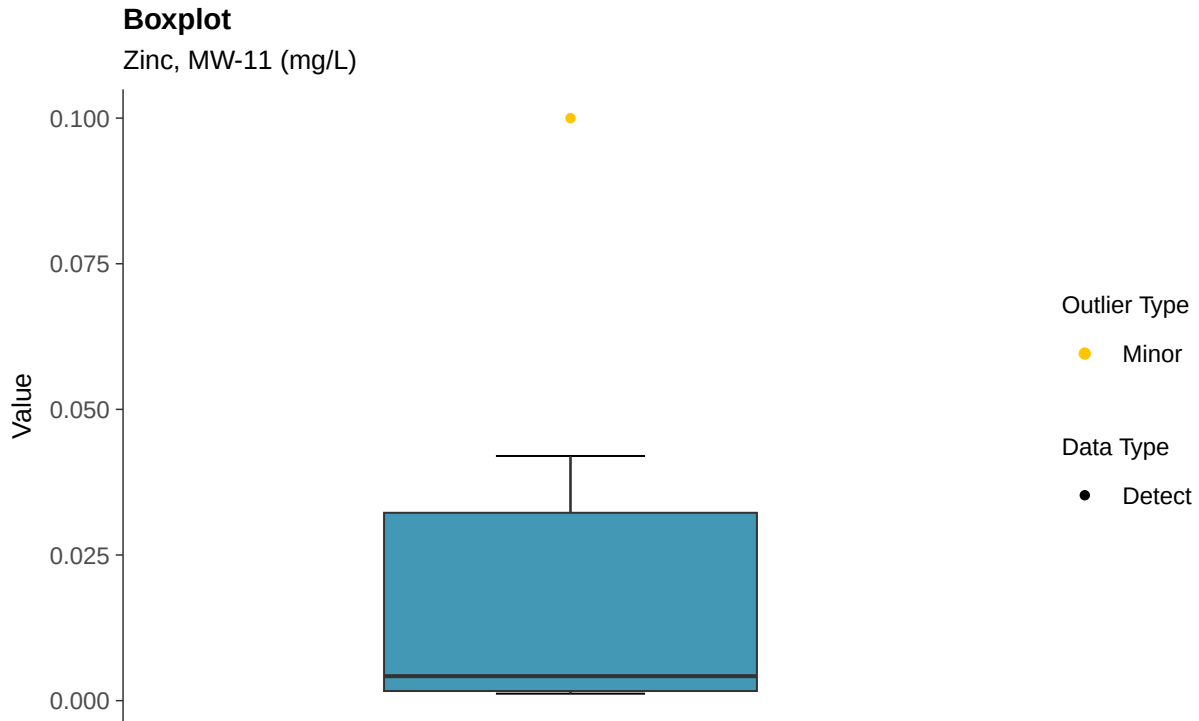
Vanadium, MW-11 (mg/L)



Vanadium, MW-11 (mg/L)

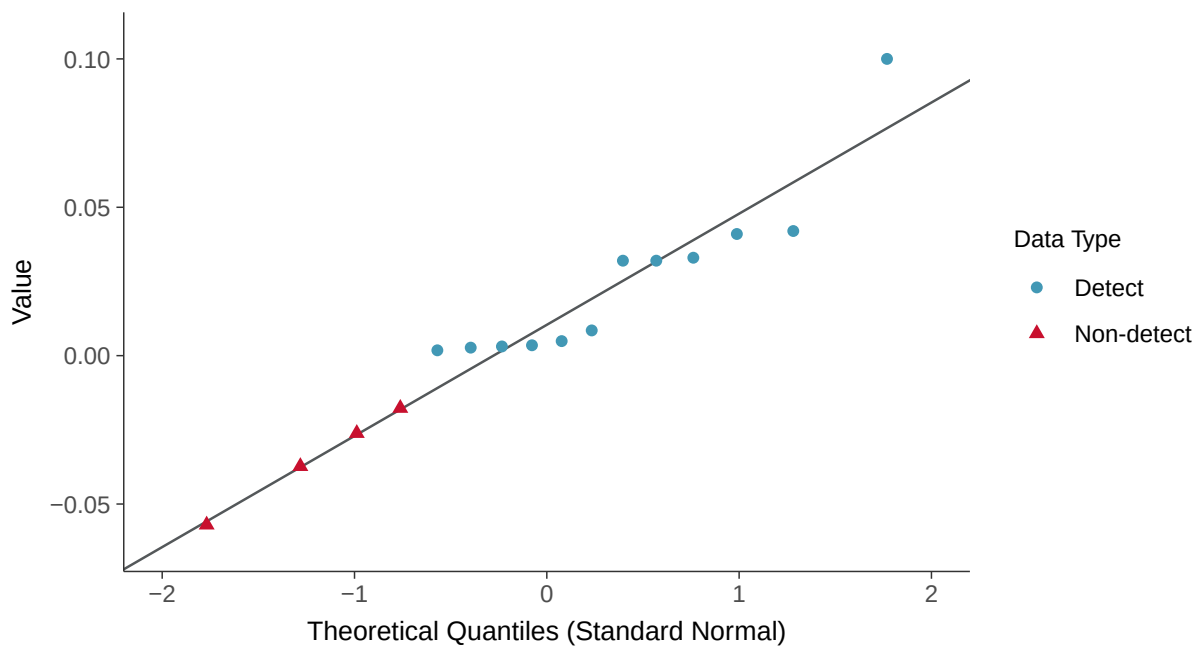






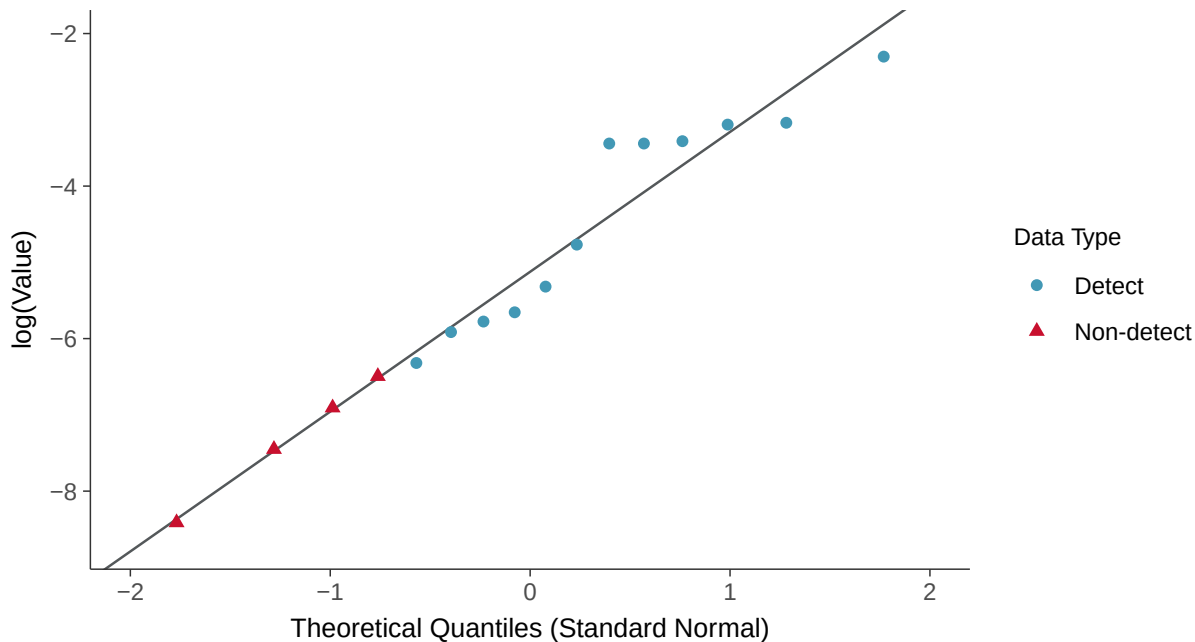
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-11 (mg/L)



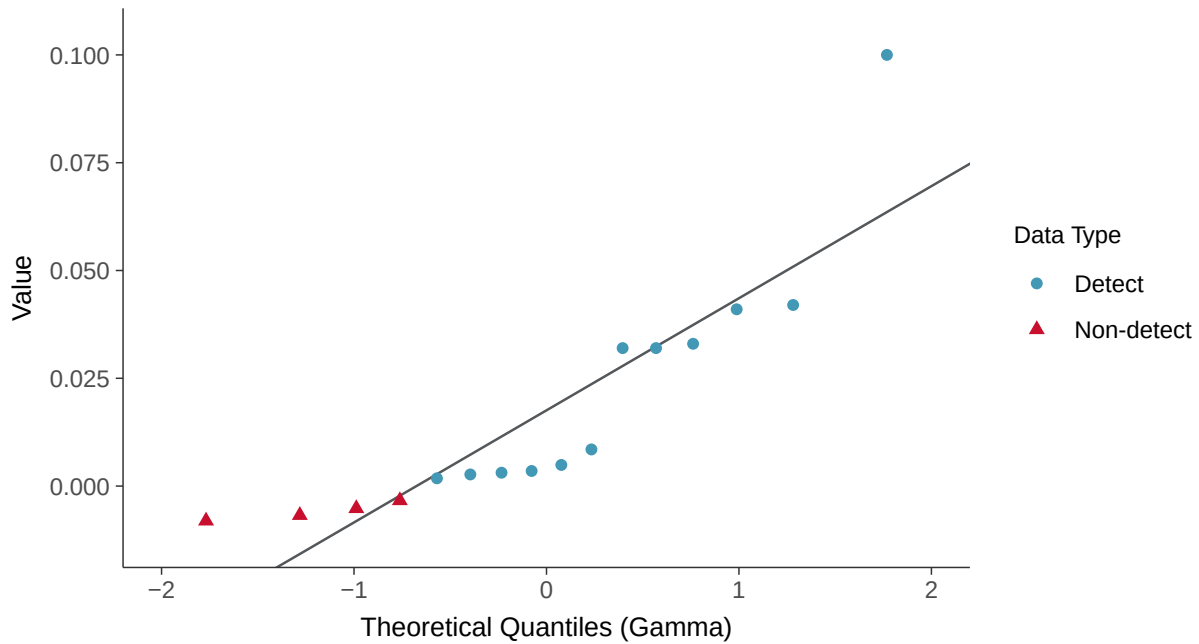
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-11 (mg/L)



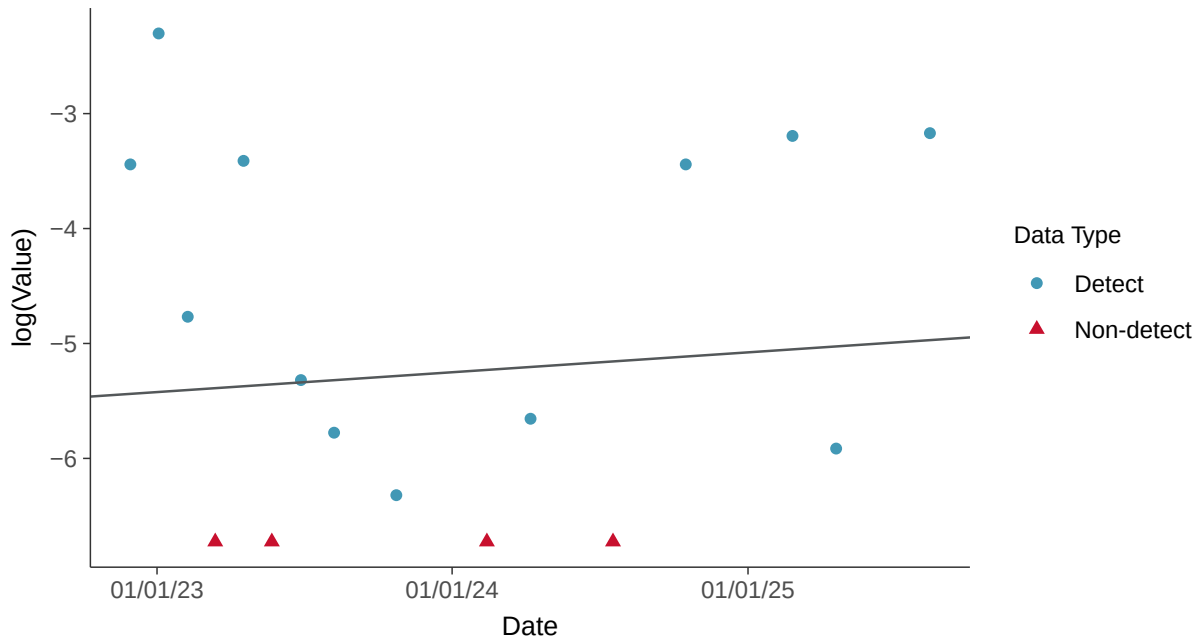
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-11 (mg/L)



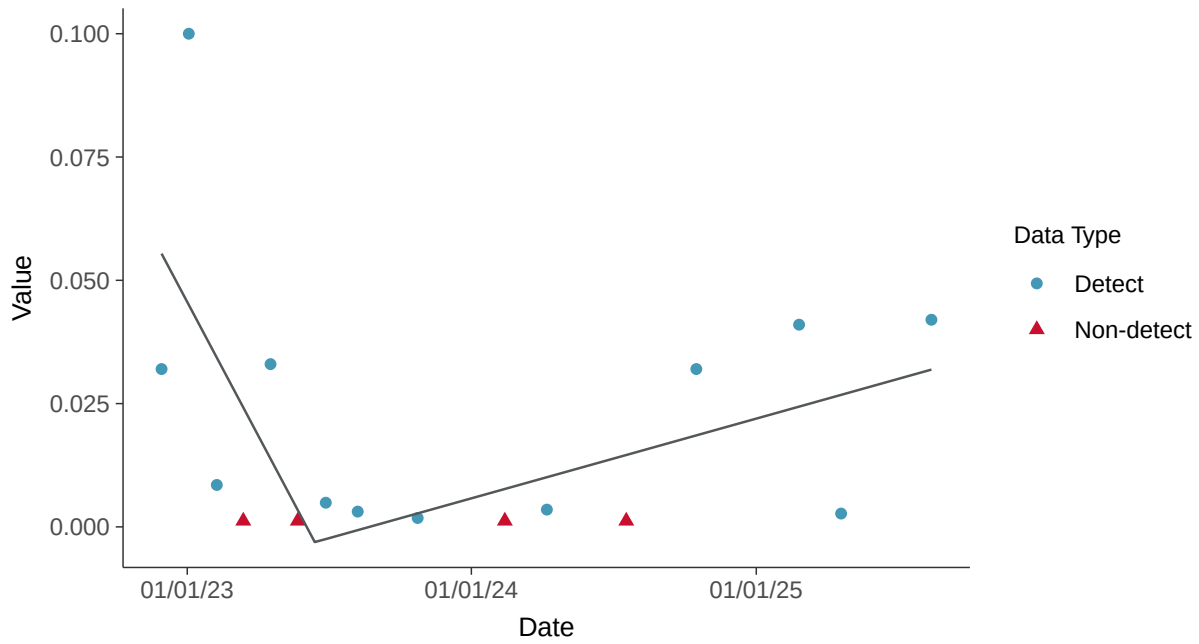
Trend Regression: Lognormal MLE

Zinc, MW-11 (mg/L)



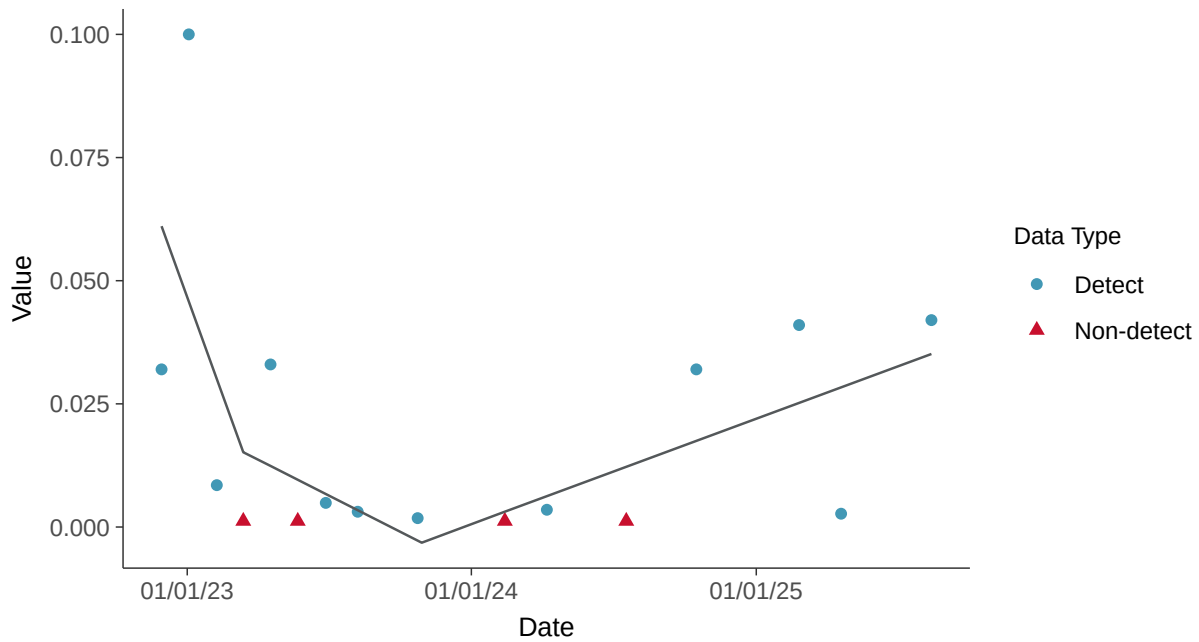
Trend Regression: Piecewise Linear-Linear

Zinc, MW-11 (mg/L)



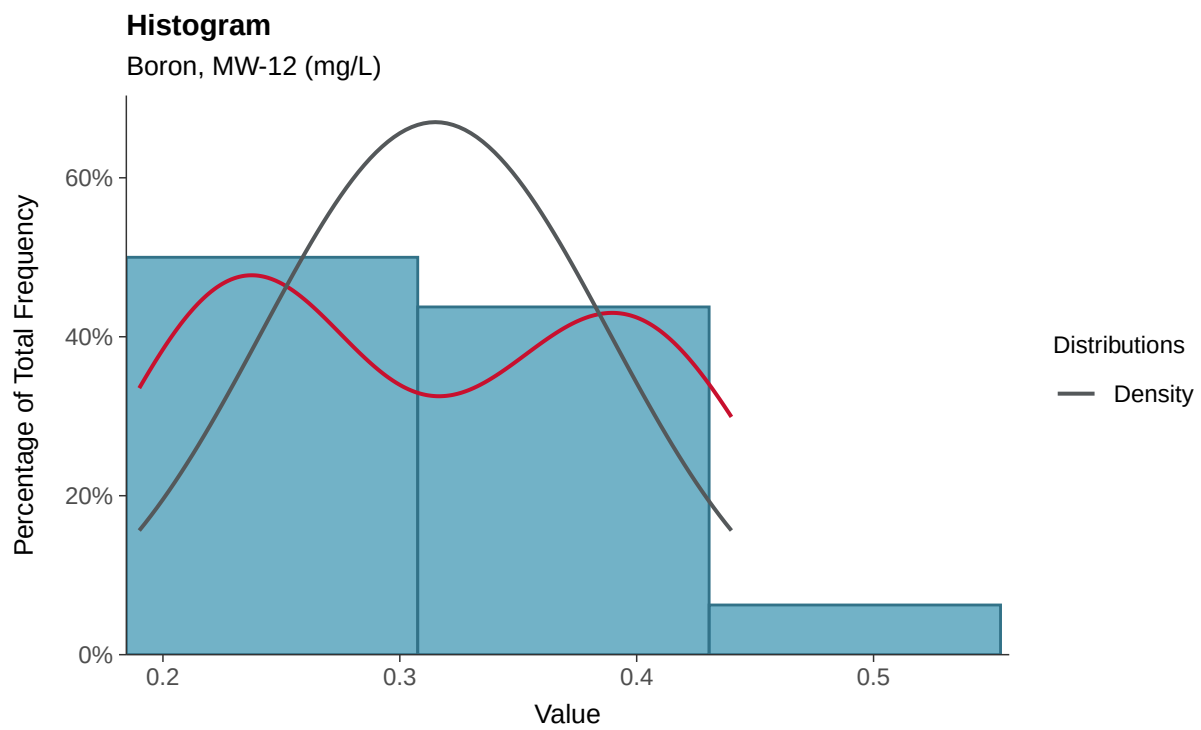
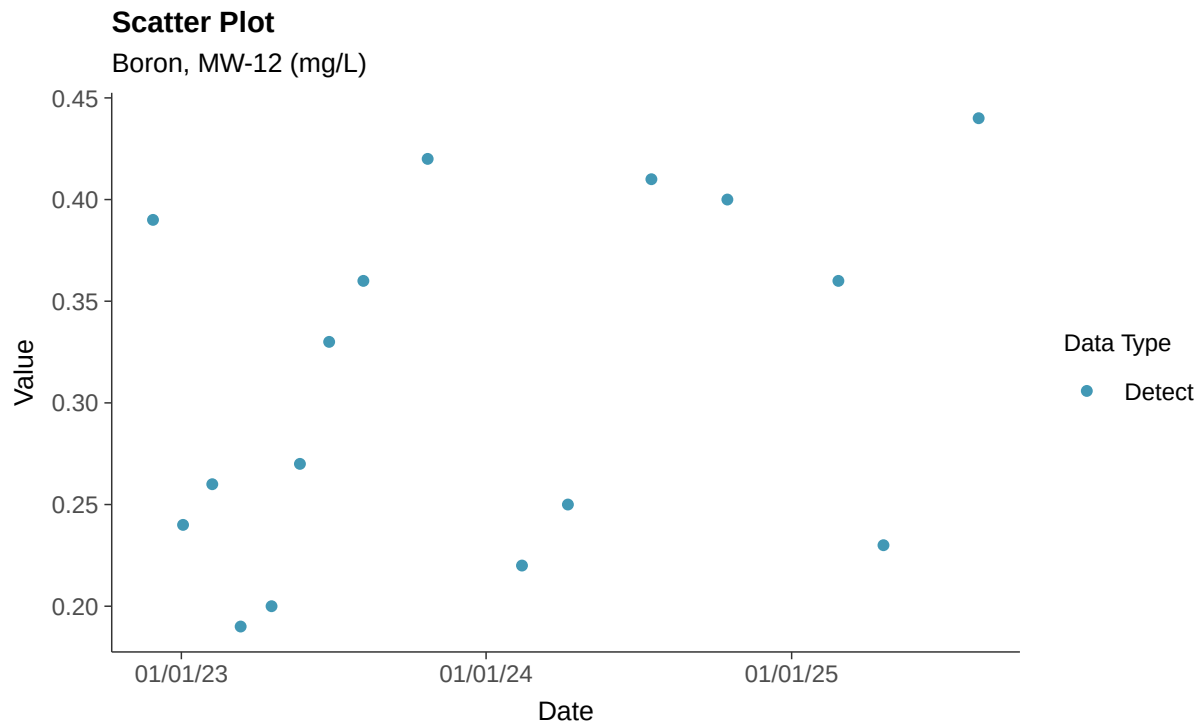
Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-11 (mg/L)



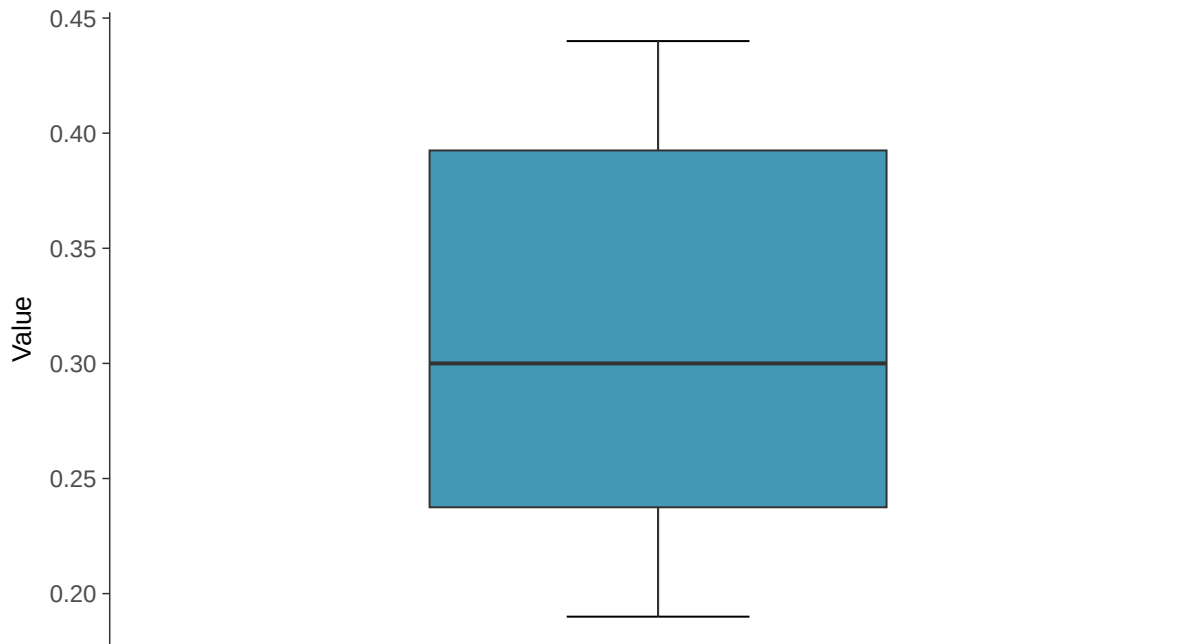
Appendix III: Boron, MW-12

ID: 22_2_3_105



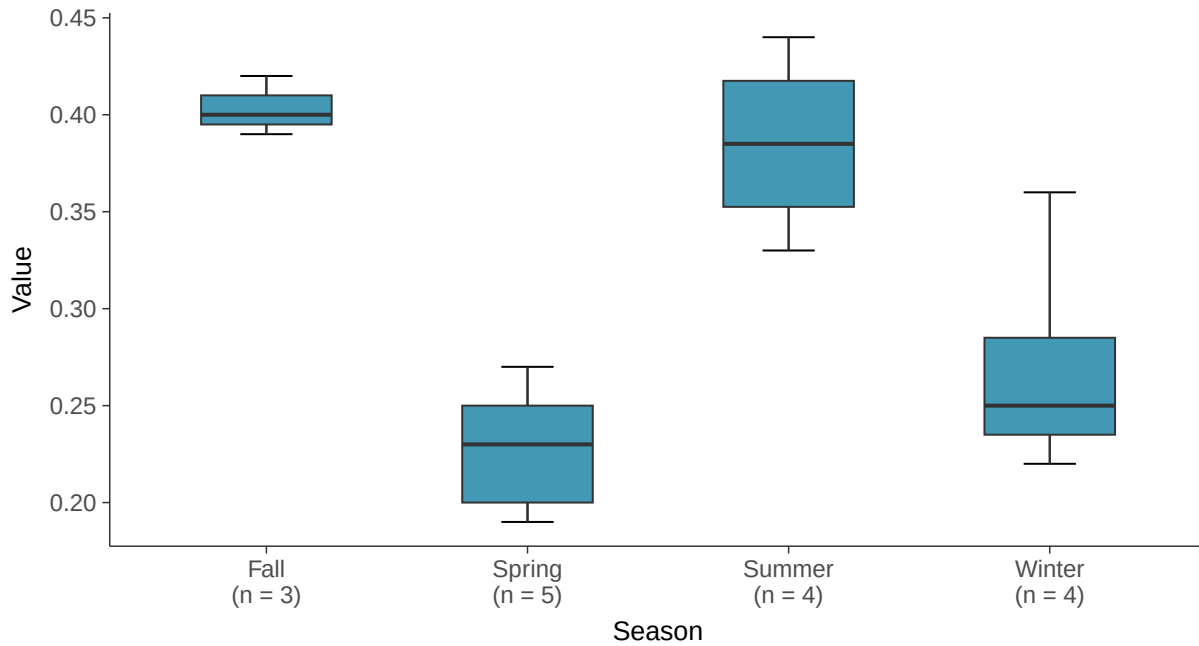
Boxplot

Boron, MW-12 (mg/L)

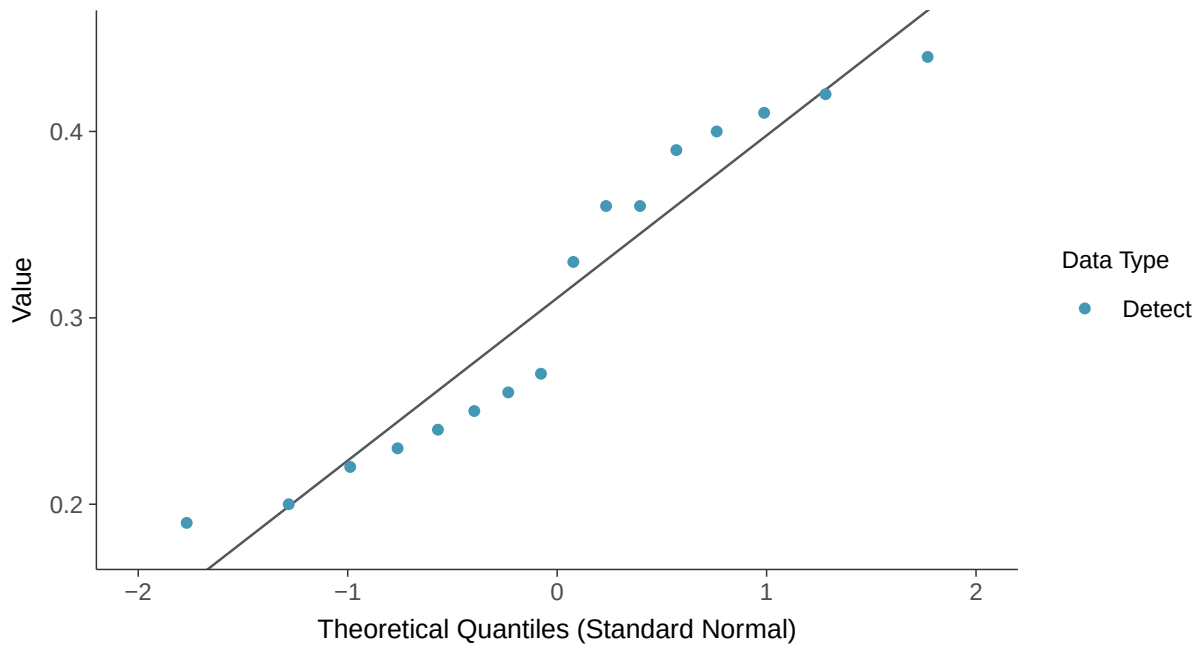


Boxplot by Season

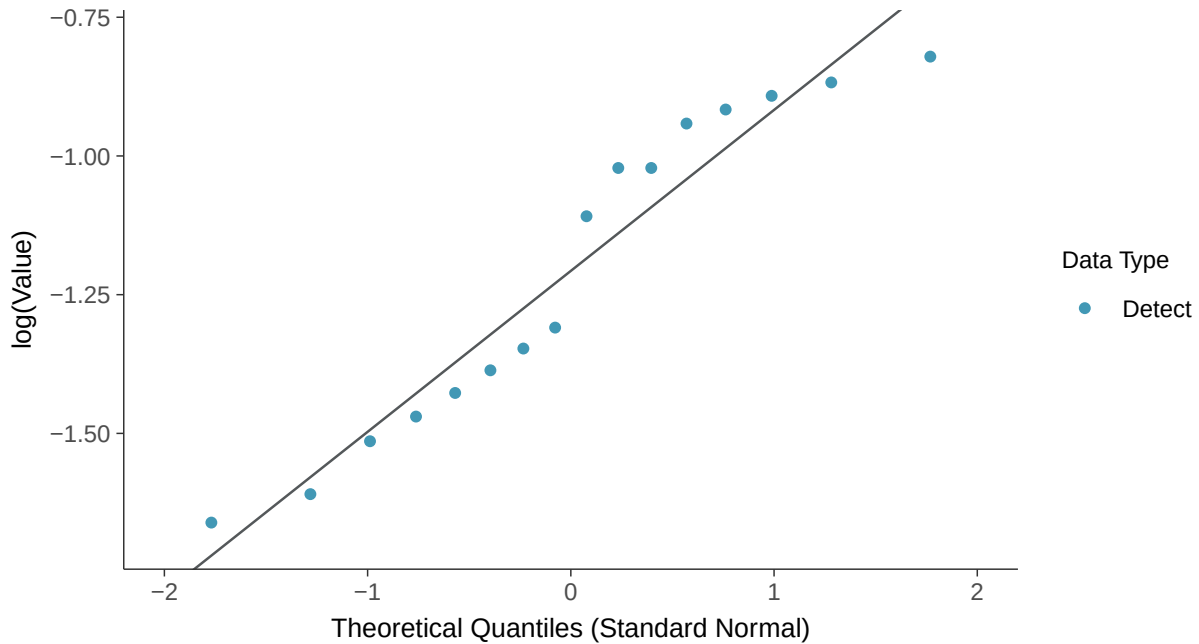
Boron, MW-12 (mg/L)



Normal Q-Q plot
Boron, MW-12 (mg/L)

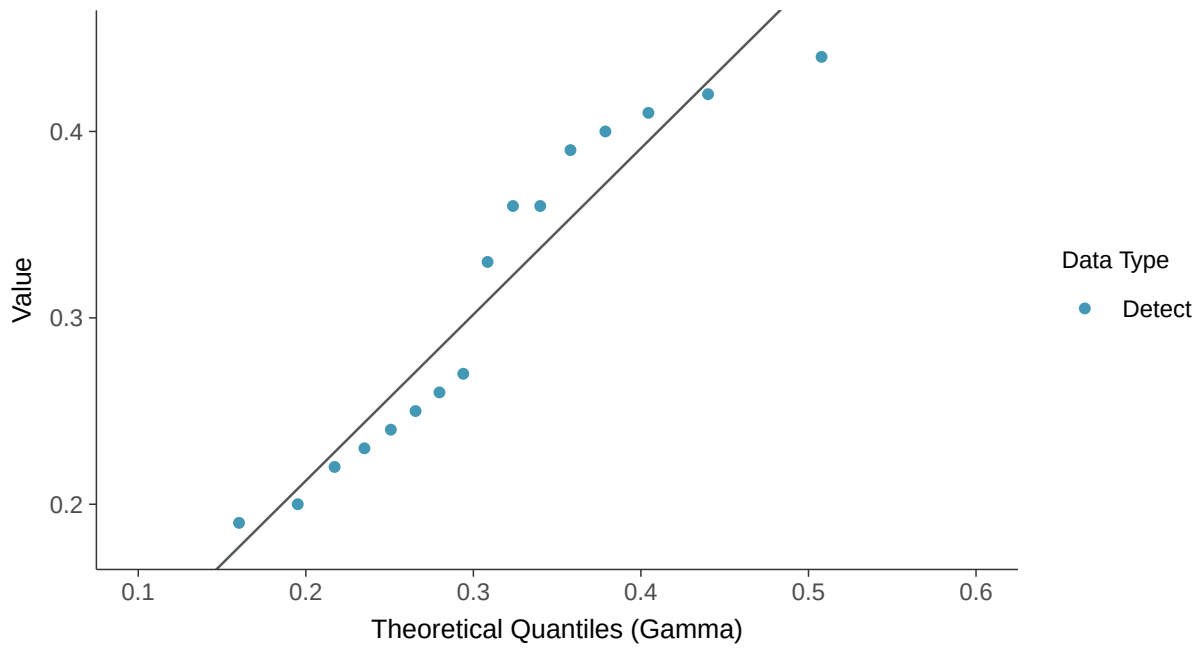


Lognormal Q-Q plot
Boron, MW-12 (mg/L)



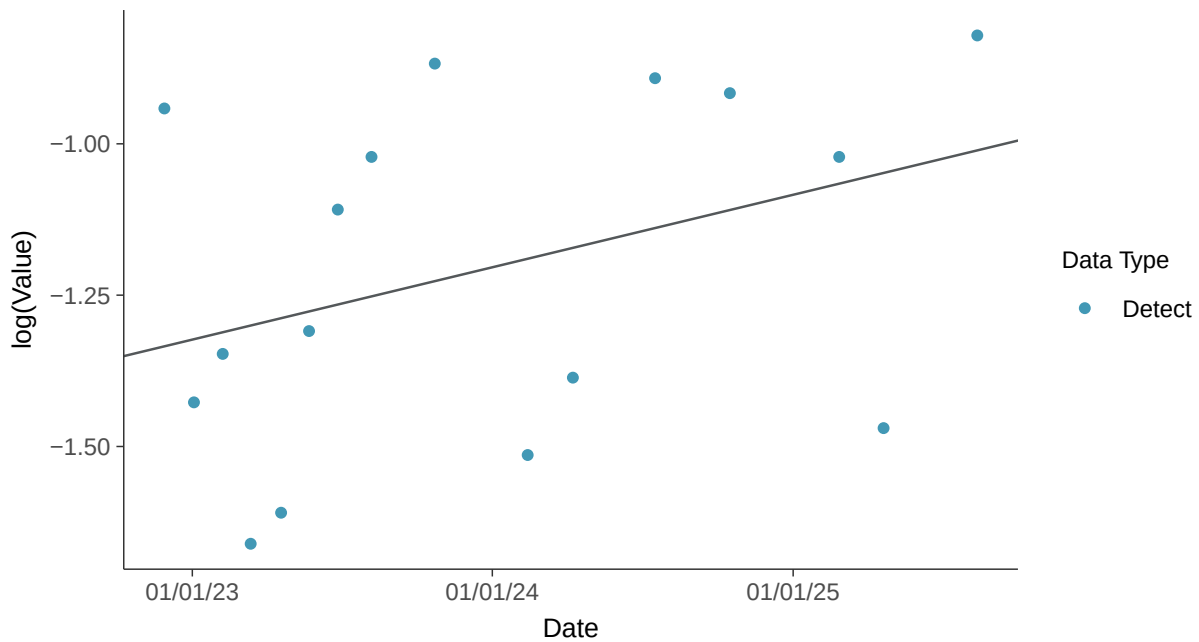
Gamma Q-Q plot

Boron, MW-12 (mg/L)



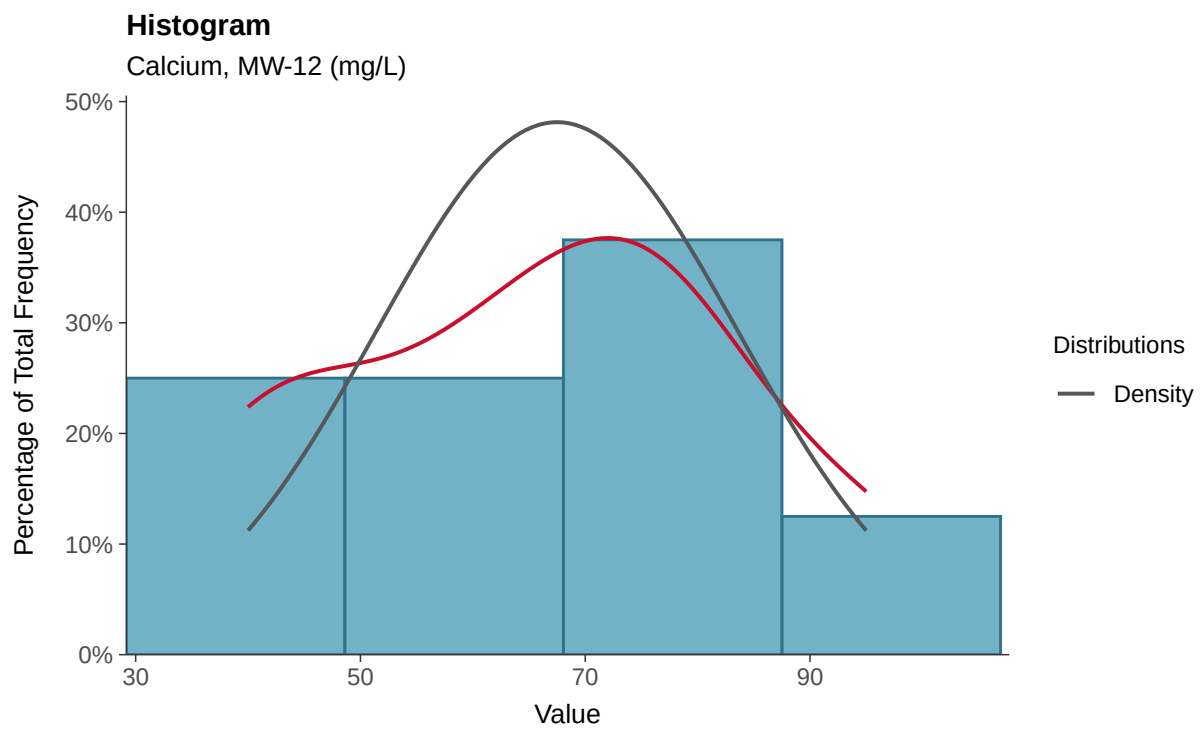
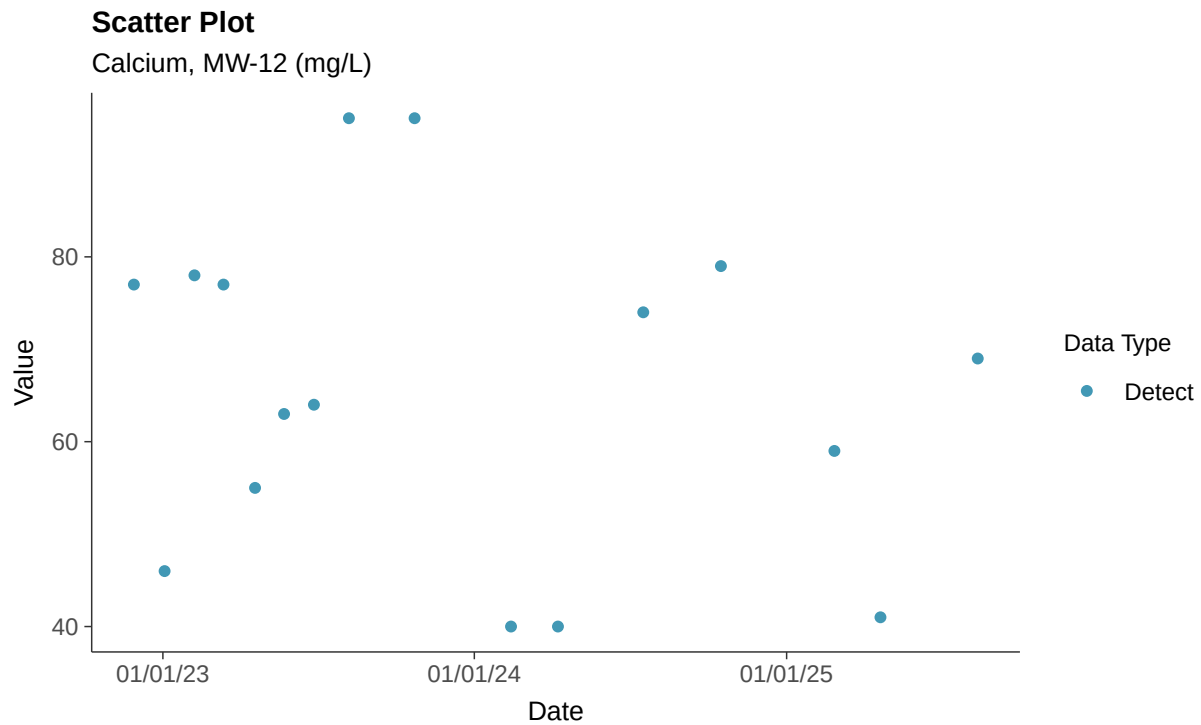
Trend Regression: Lognormal MLE

Boron, MW-12 (mg/L)



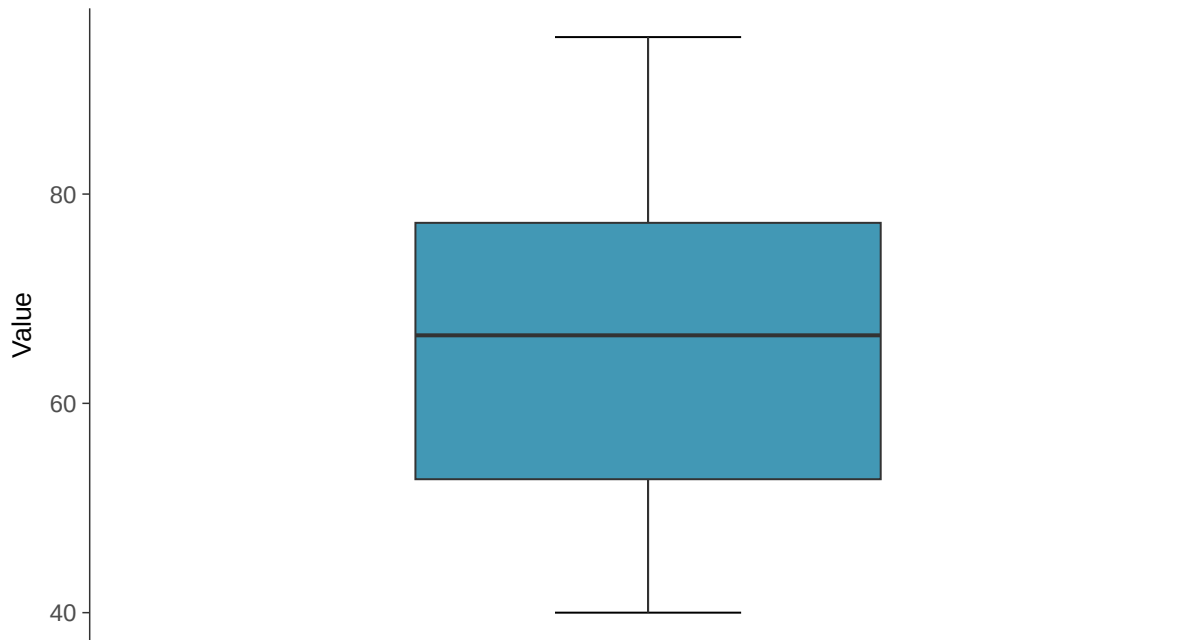
Appendix III: Calcium, MW-12

ID: 22_2_3_107



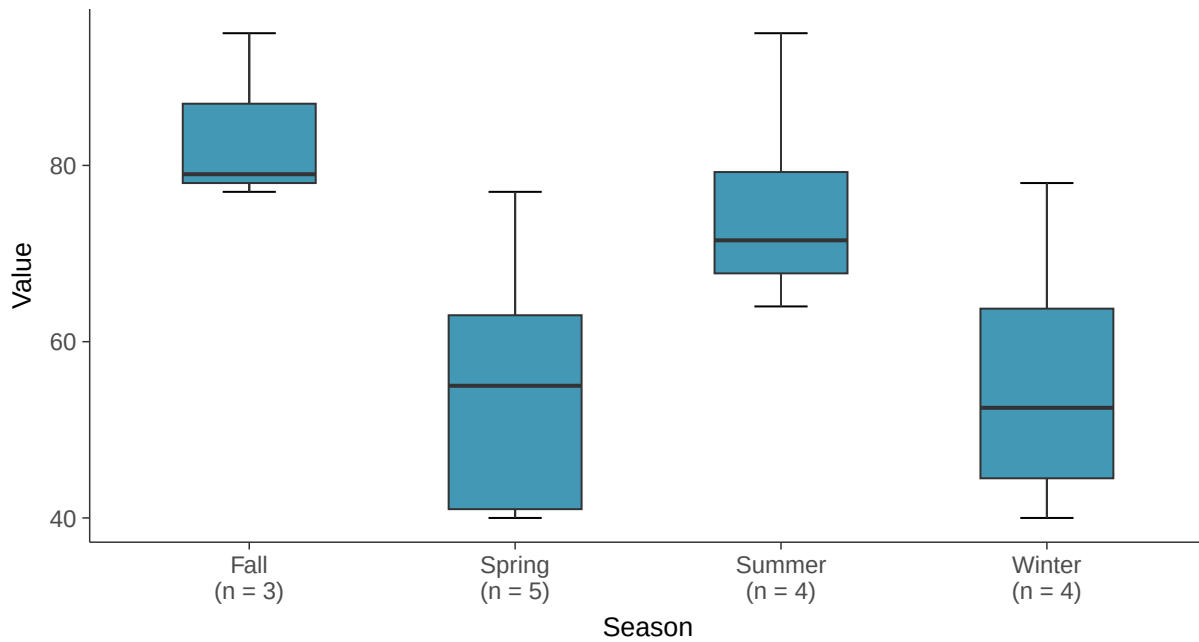
Boxplot

Calcium, MW-12 (mg/L)



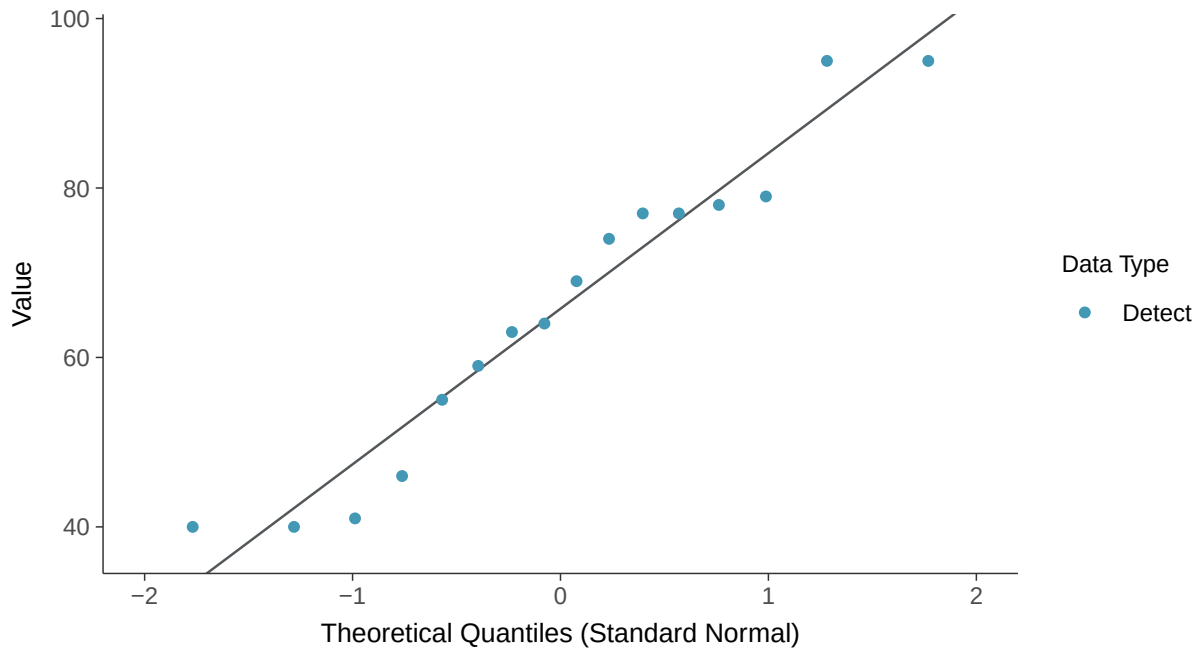
Boxplot by Season

Calcium, MW-12 (mg/L)



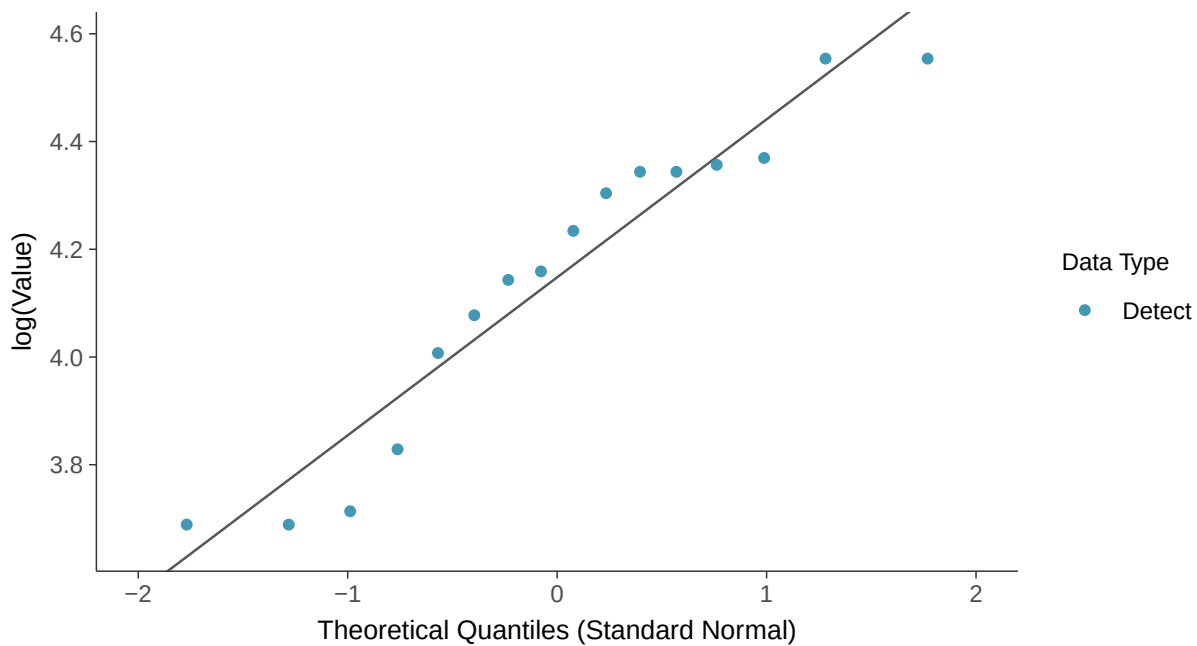
Normal Q-Q plot

Calcium, MW-12 (mg/L)



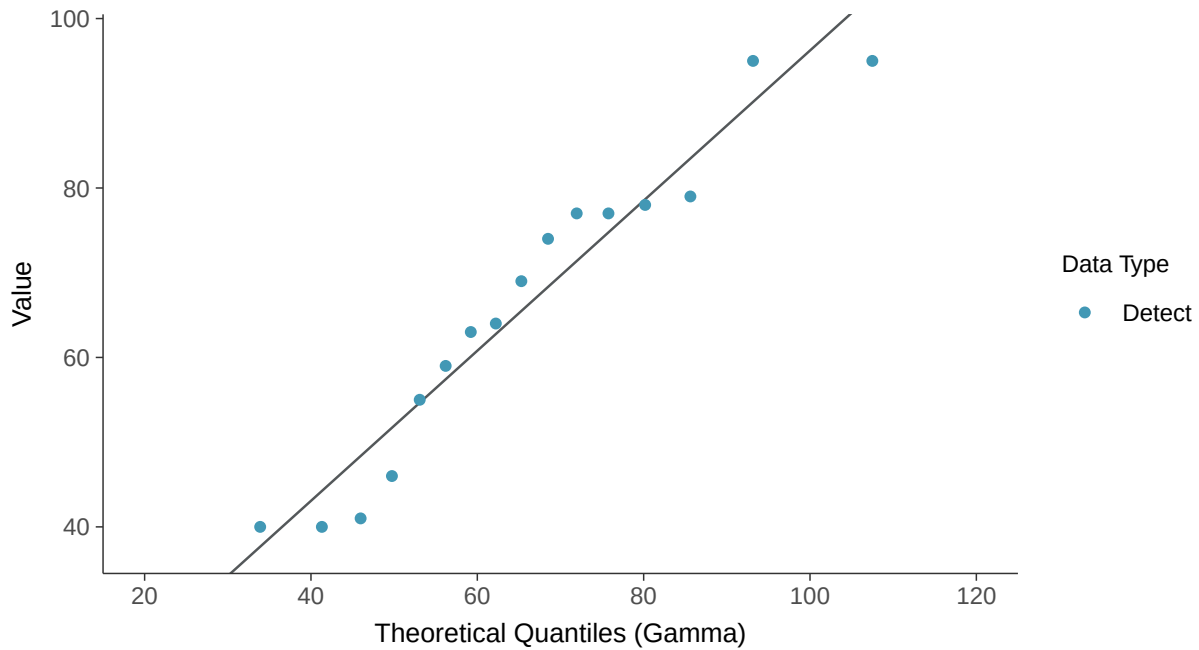
Lognormal Q-Q plot

Calcium, MW-12 (mg/L)



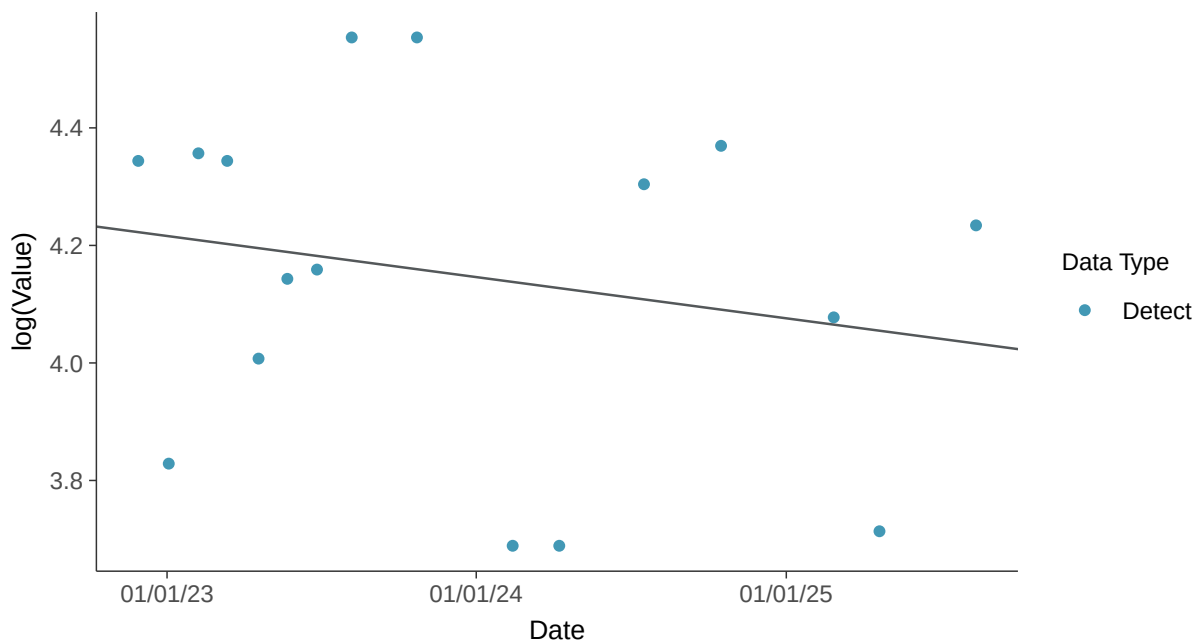
Gamma Q-Q plot

Calcium, MW-12 (mg/L)



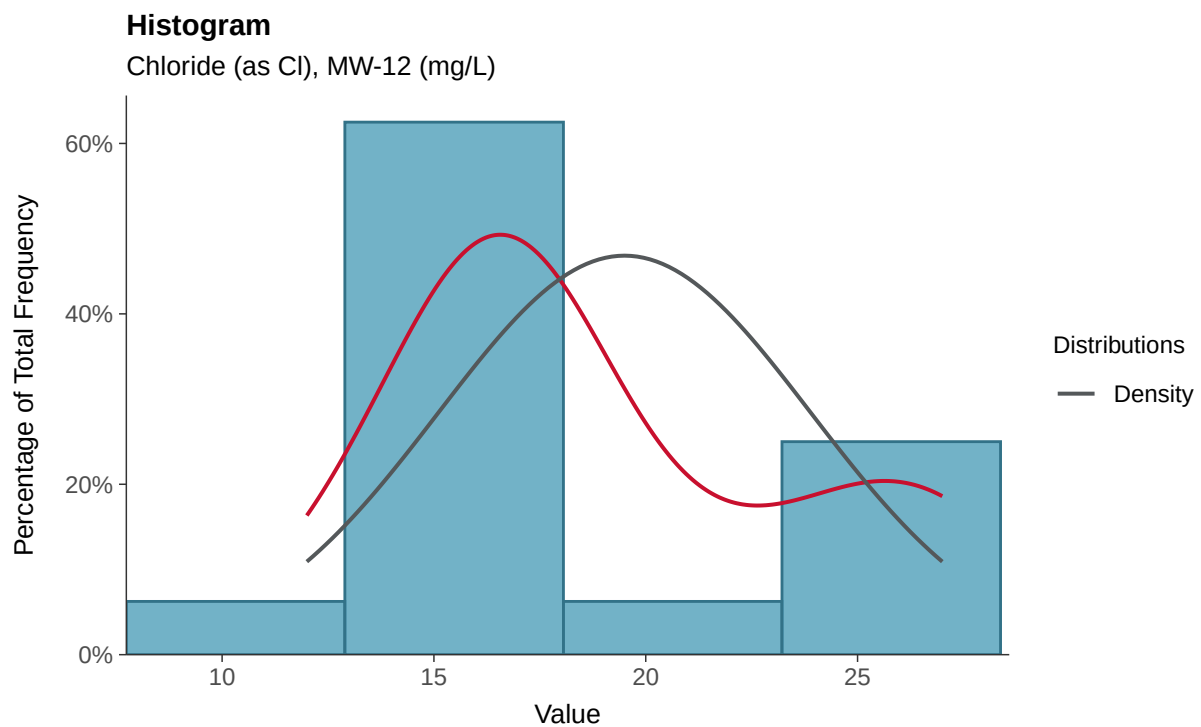
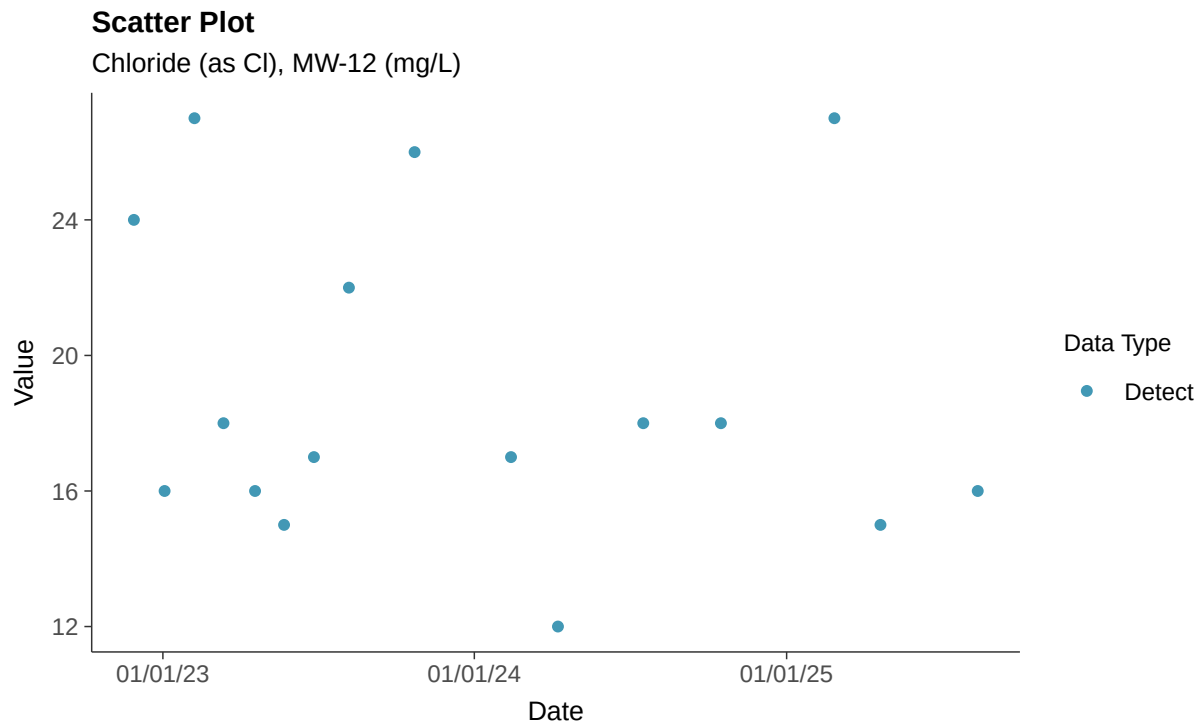
Trend Regression: Lognormal MLE

Calcium, MW-12 (mg/L)



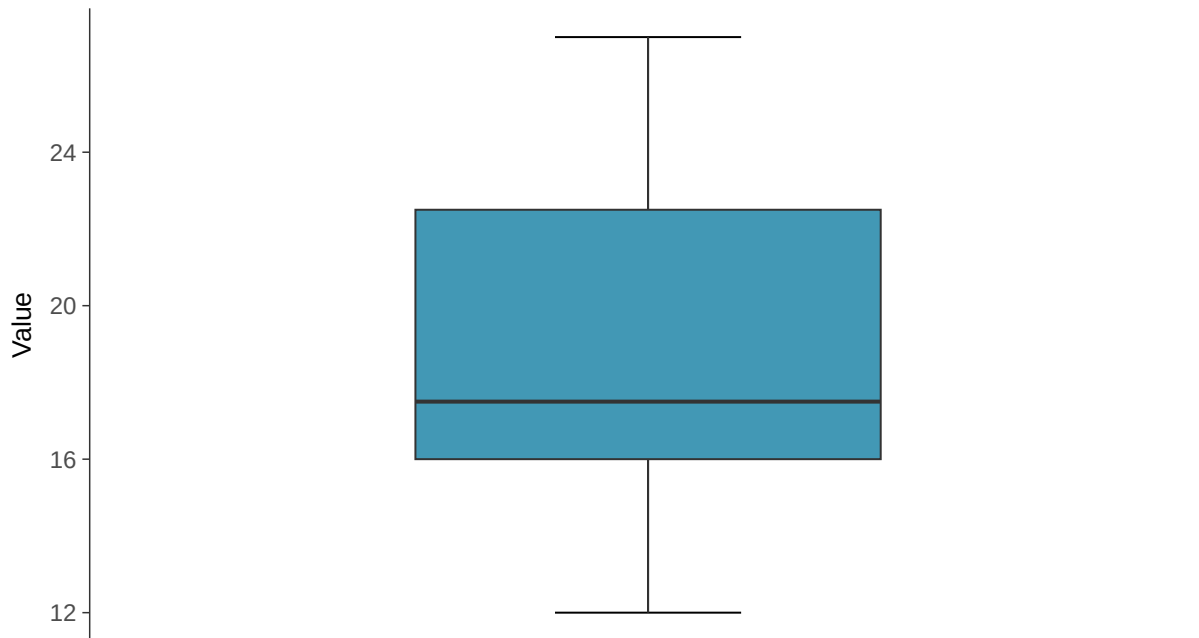
Appendix III: Chloride (as Cl), MW-12

ID: 22_2_3_108



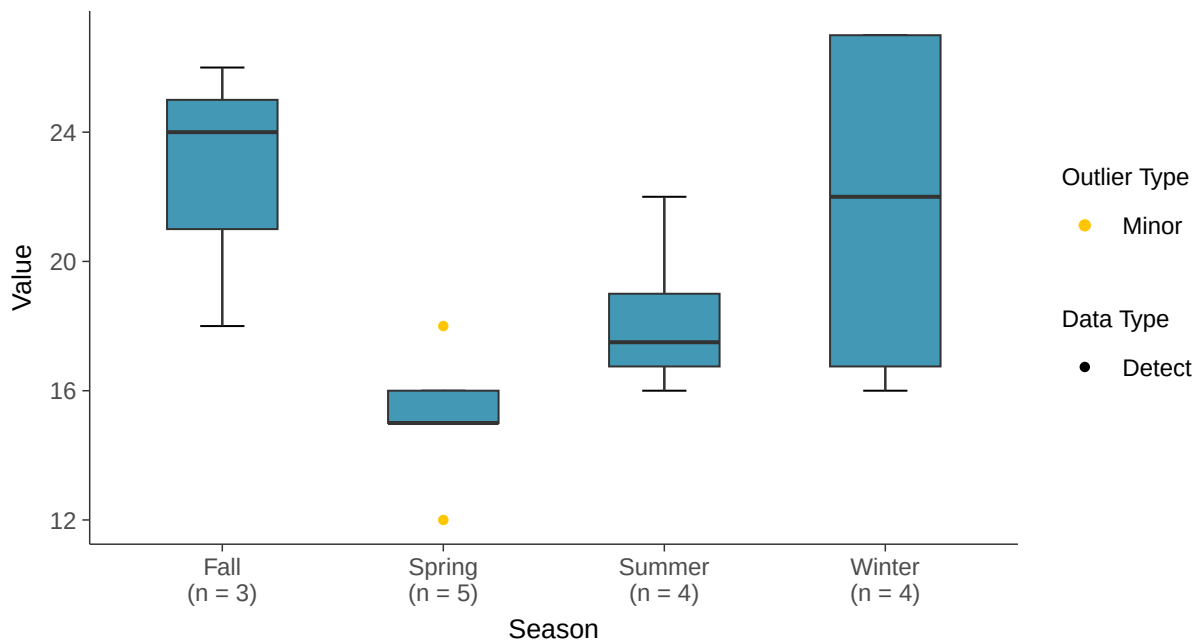
Boxplot

Chloride (as Cl), MW-12 (mg/L)



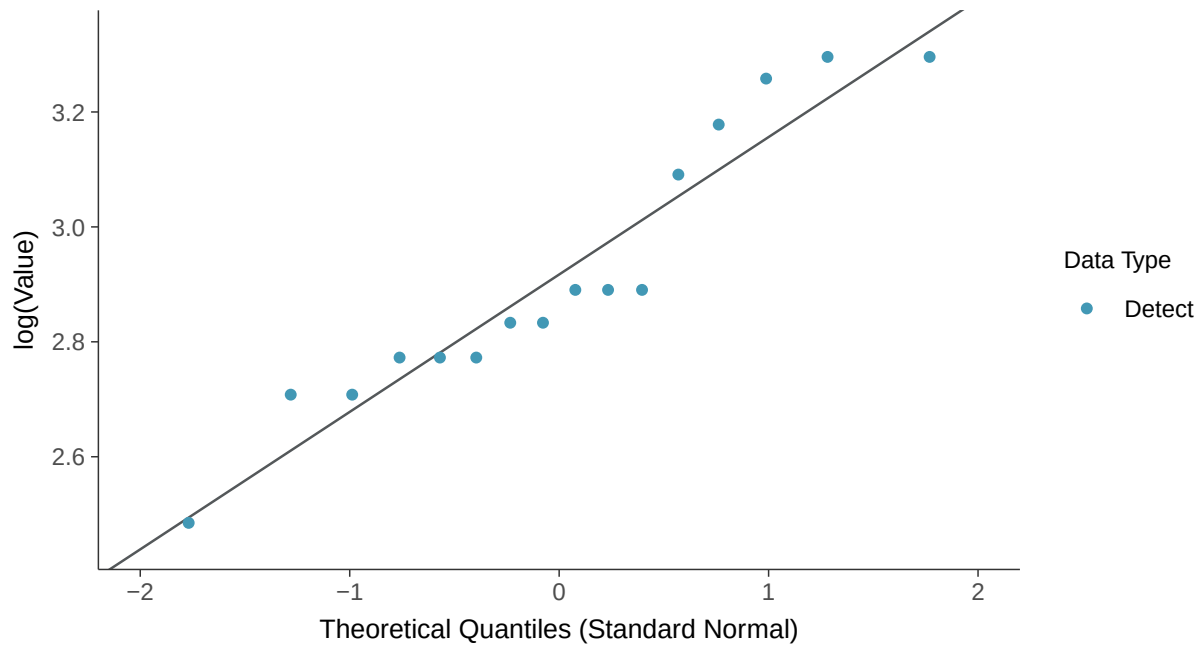
Boxplot by Season

Chloride (as Cl), MW-12 (mg/L)



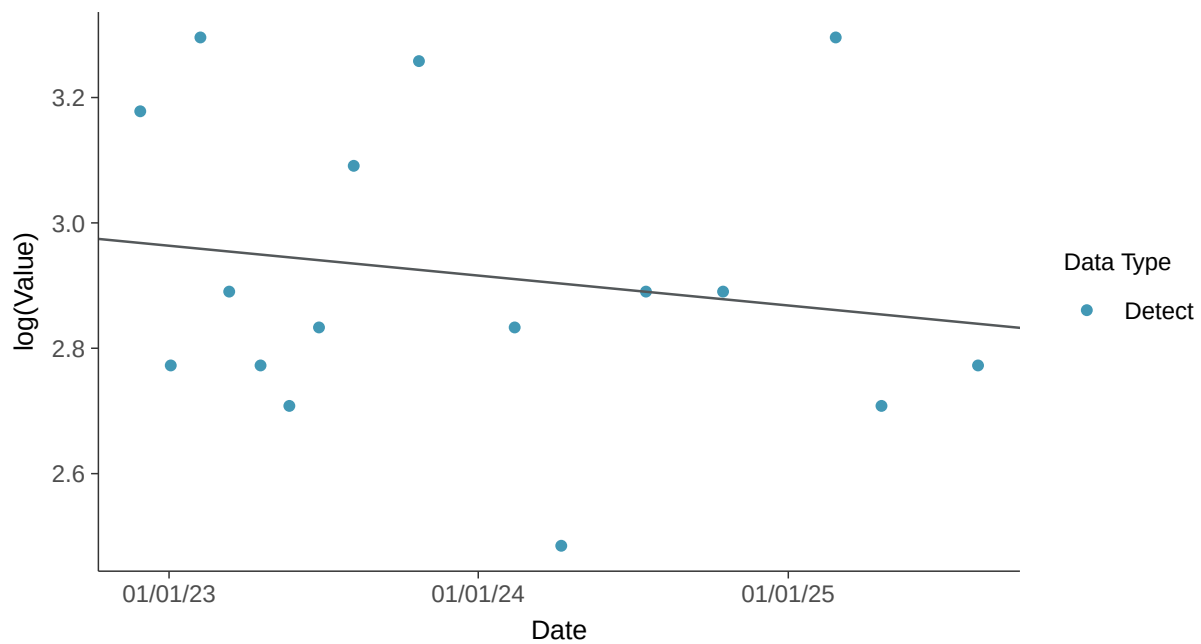
Lognormal Q-Q plot

Chloride (as Cl), MW-12 (mg/L)



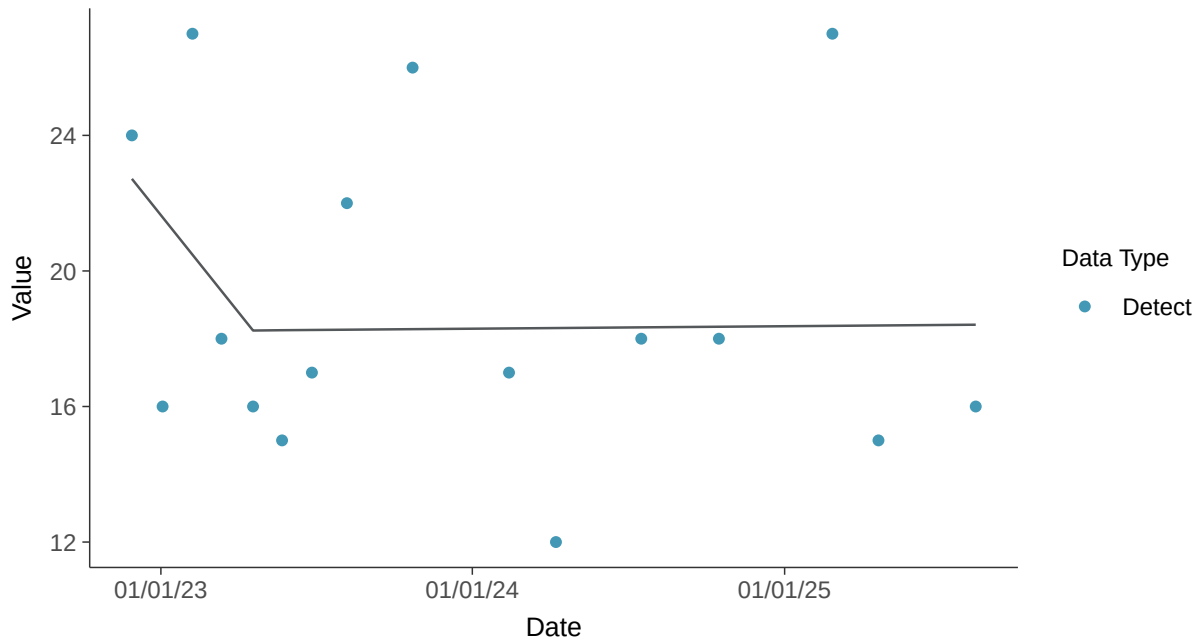
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-12 (mg/L)



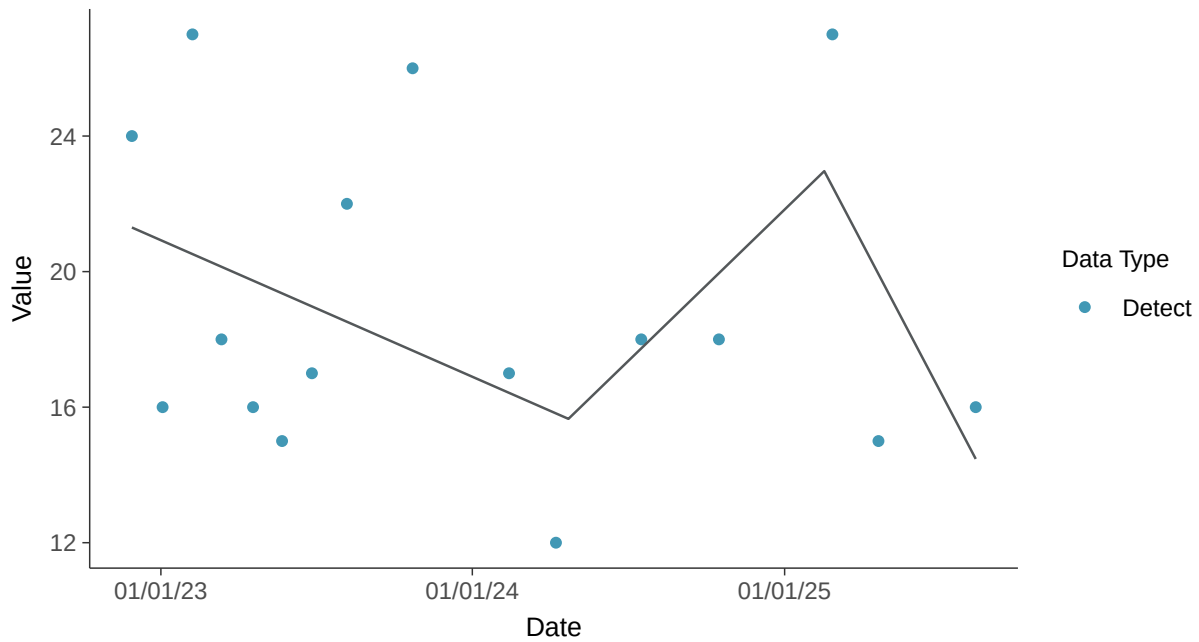
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-12 (mg/L)



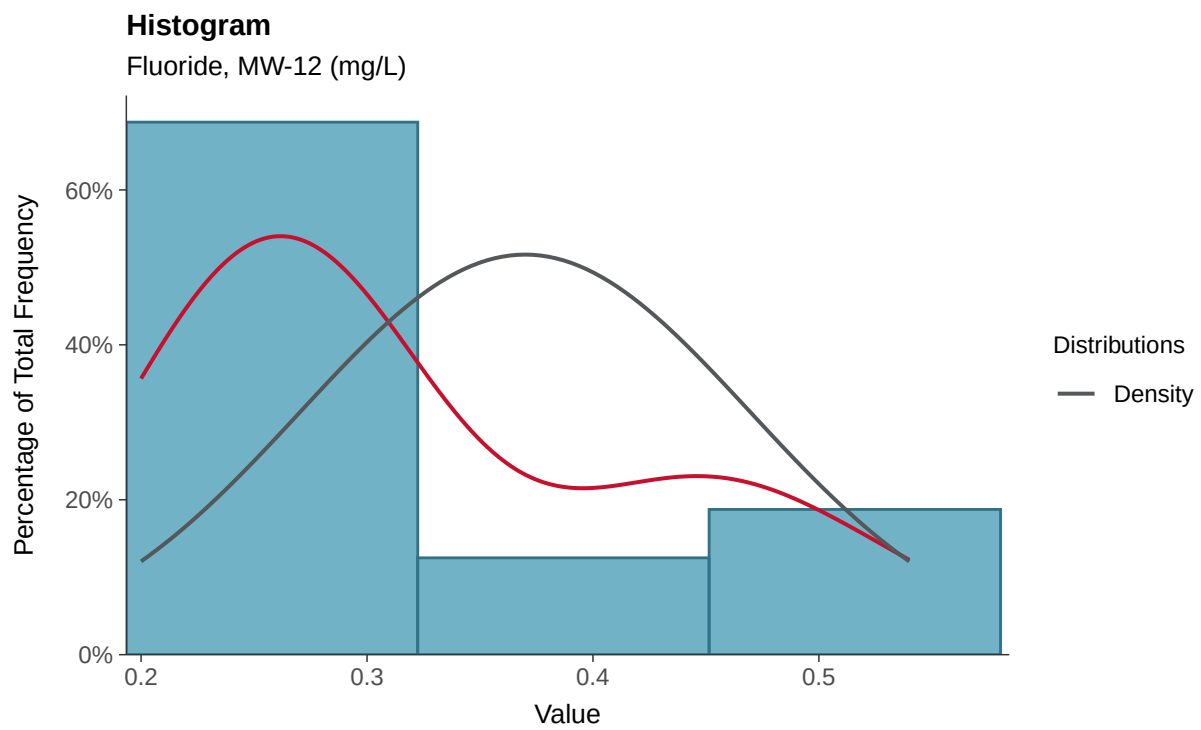
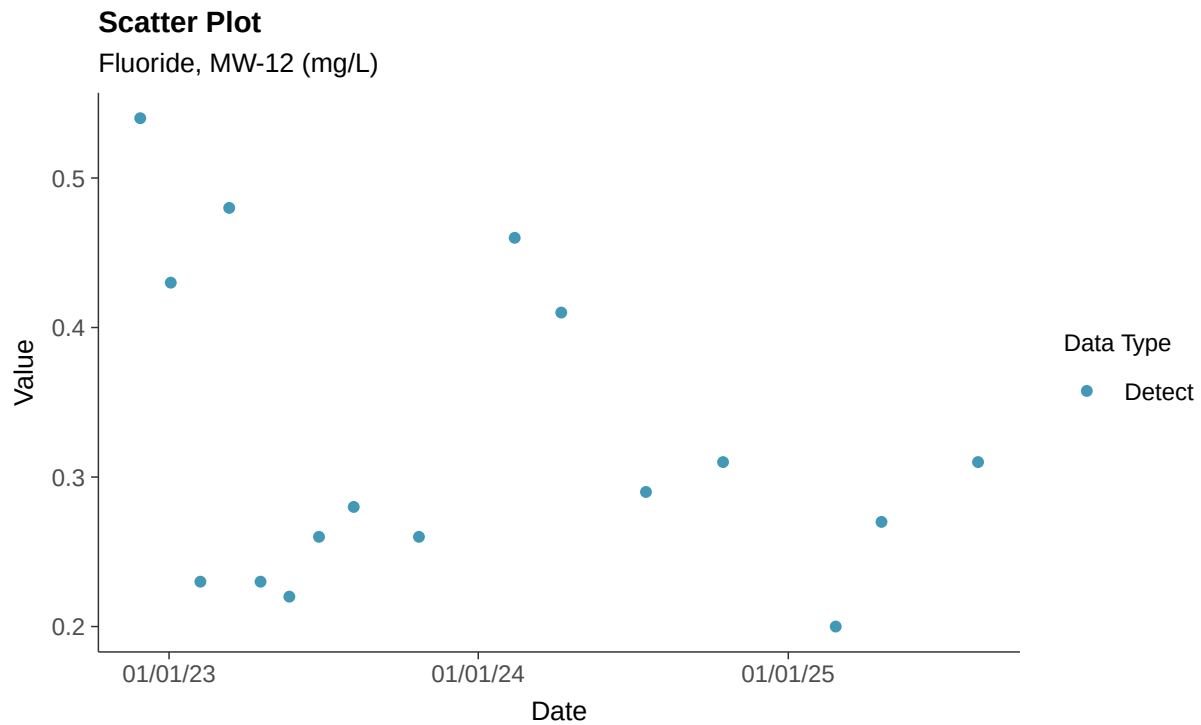
Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-12 (mg/L)



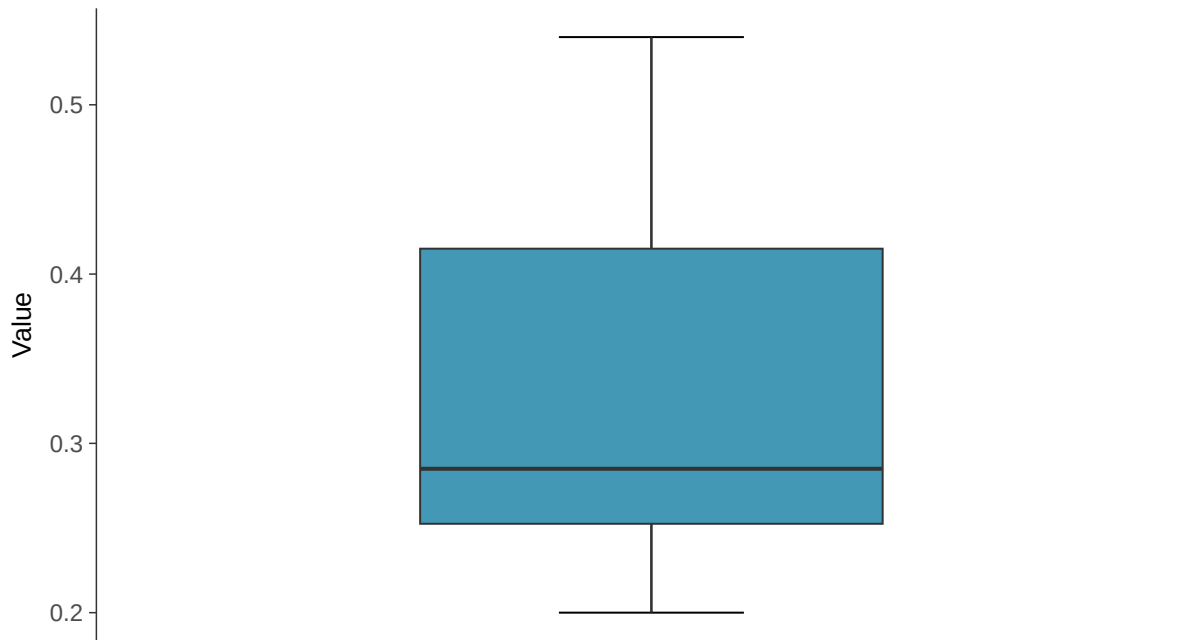
Appendix III: Fluoride, MW-12

ID: 22_2_3_112



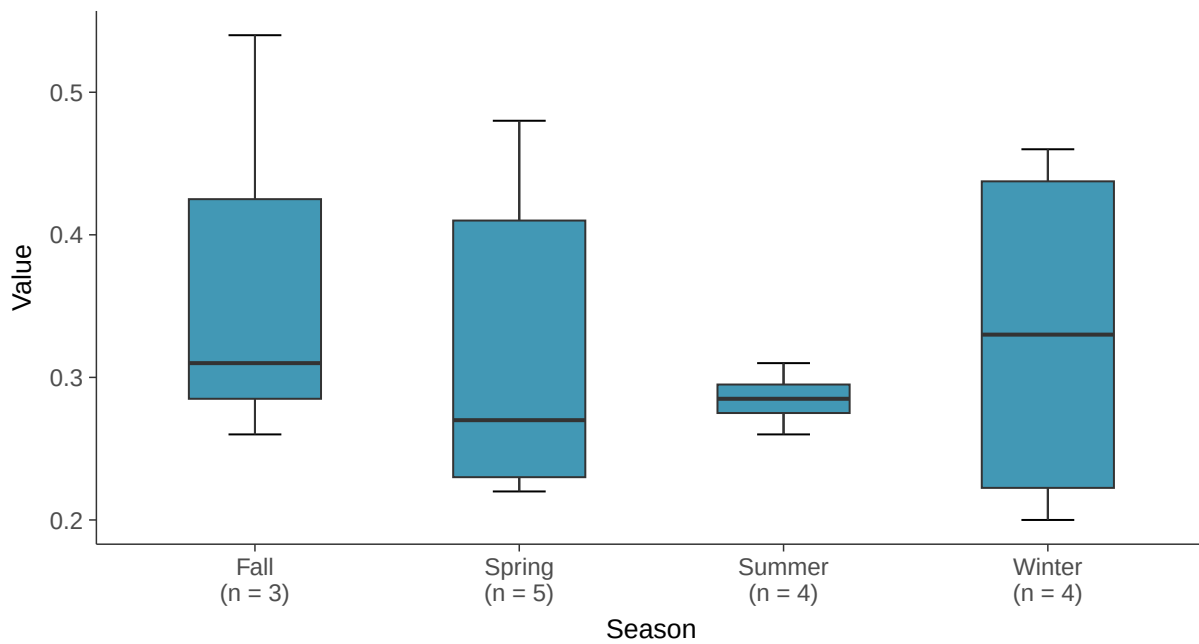
Boxplot

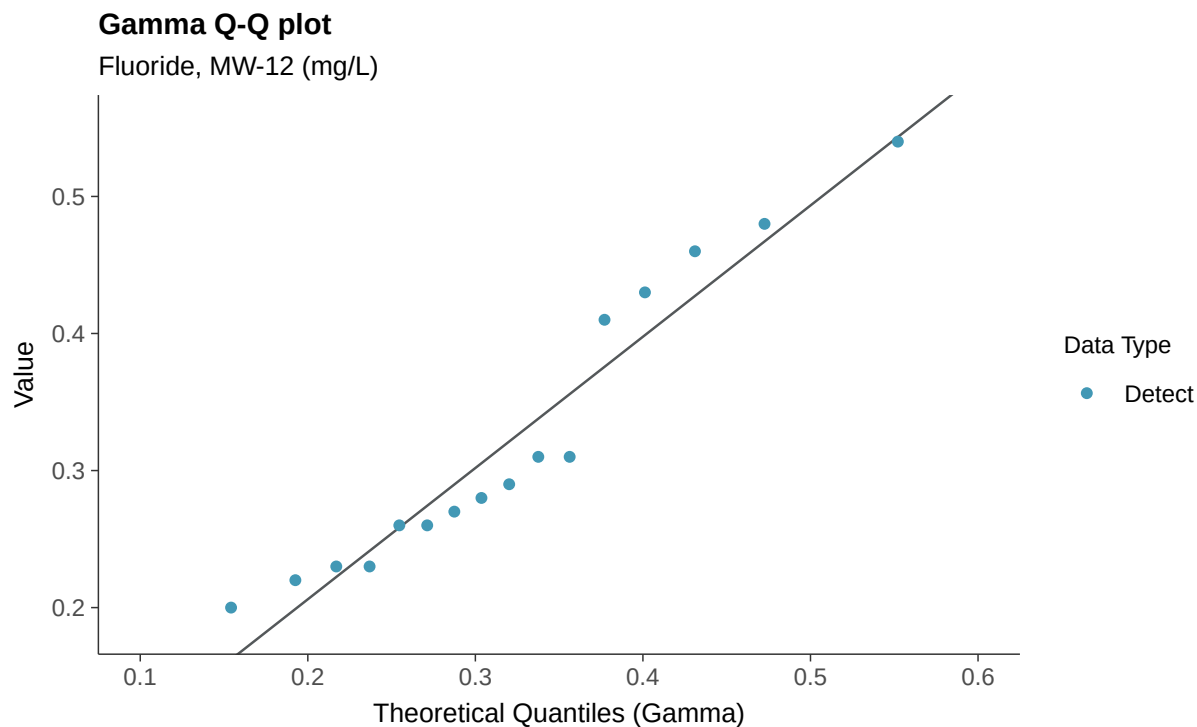
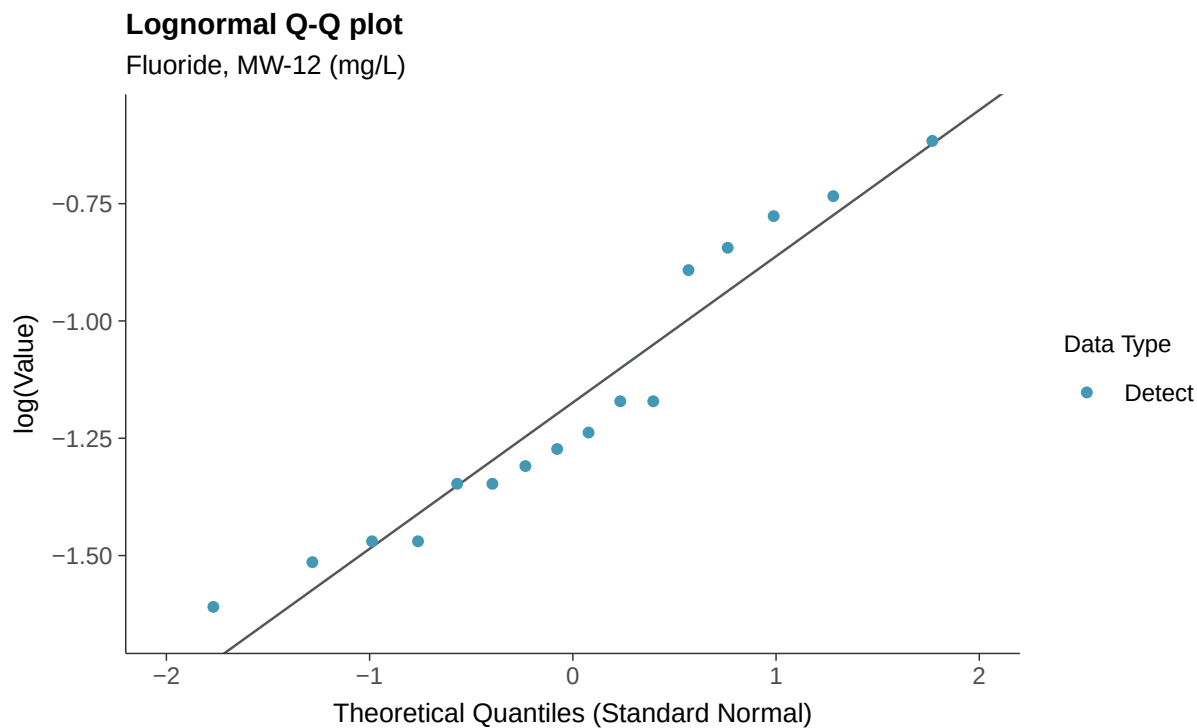
Fluoride, MW-12 (mg/L)



Boxplot by Season

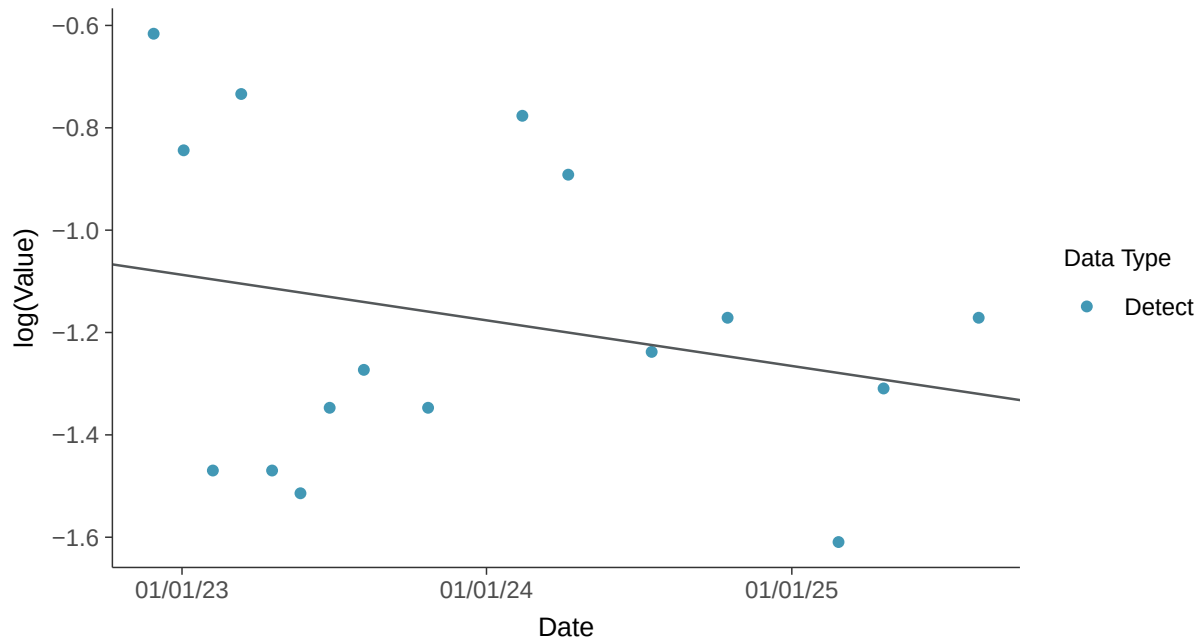
Fluoride, MW-12 (mg/L)





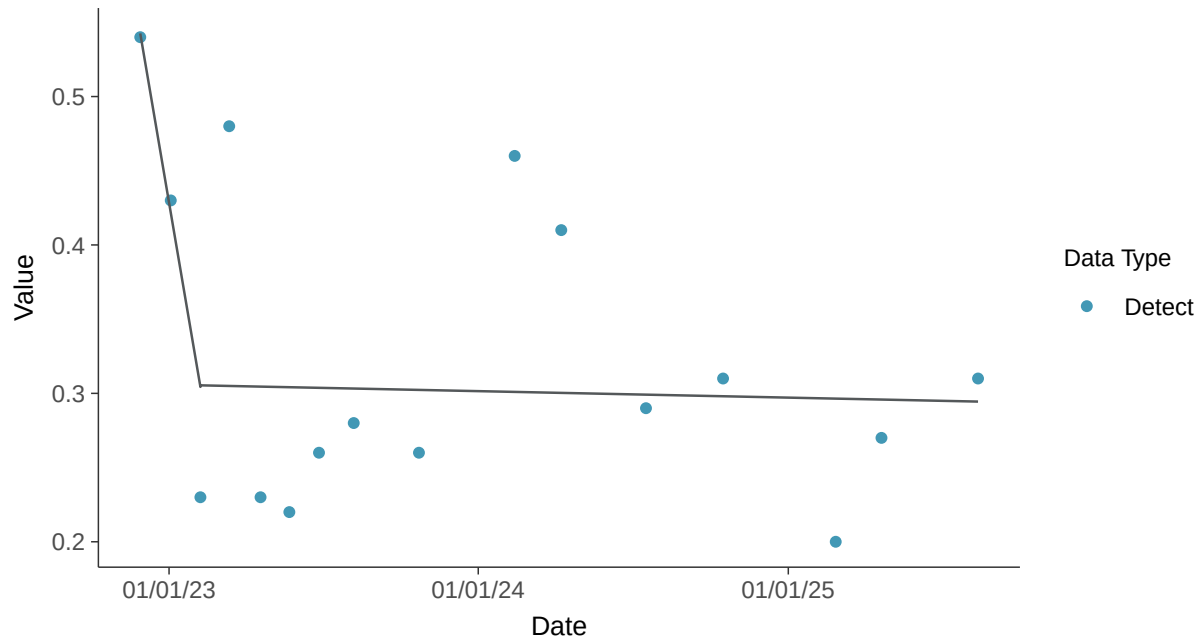
Trend Regression: Lognormal MLE

Fluoride, MW-12 (mg/L)



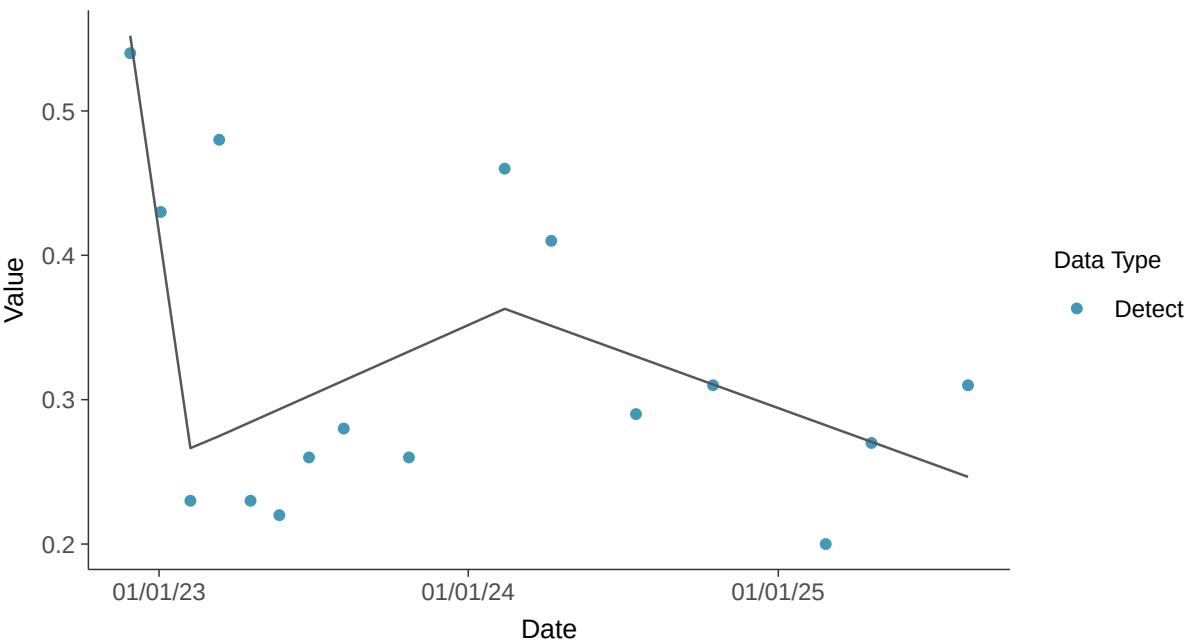
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-12 (mg/L)



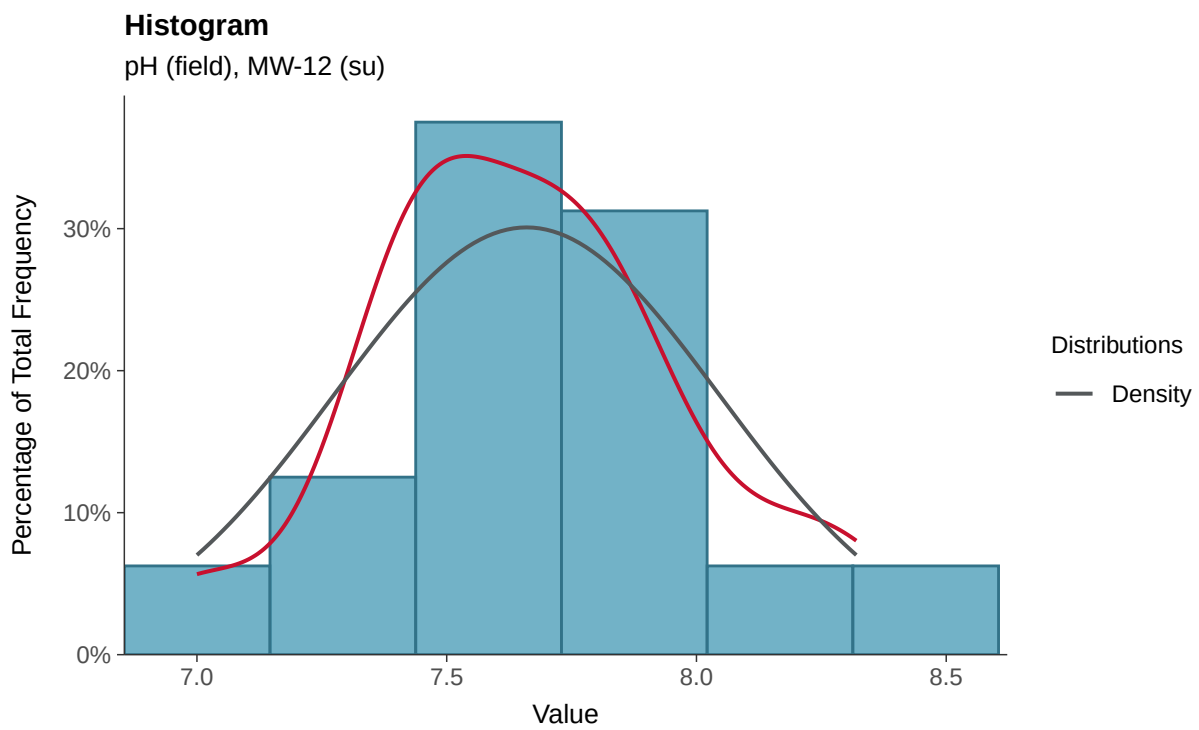
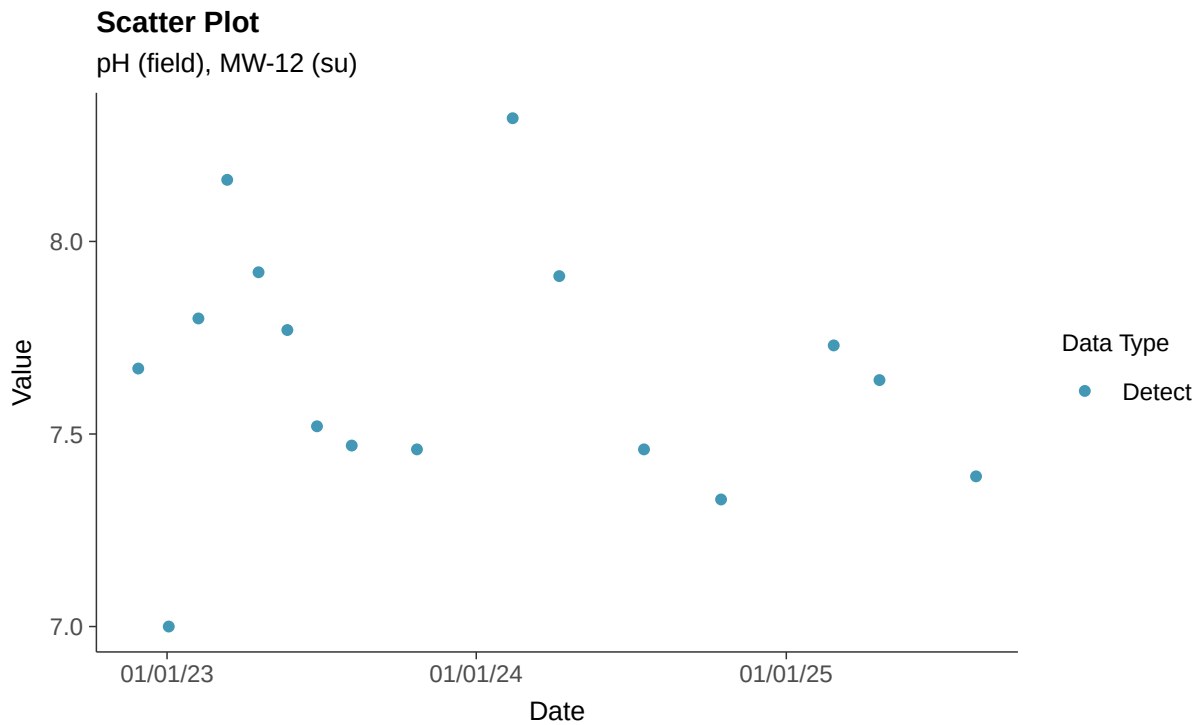


Trend Regression: Piecewise Linear-Linear-Linear
Fluoride, MW-12 (mg/L)



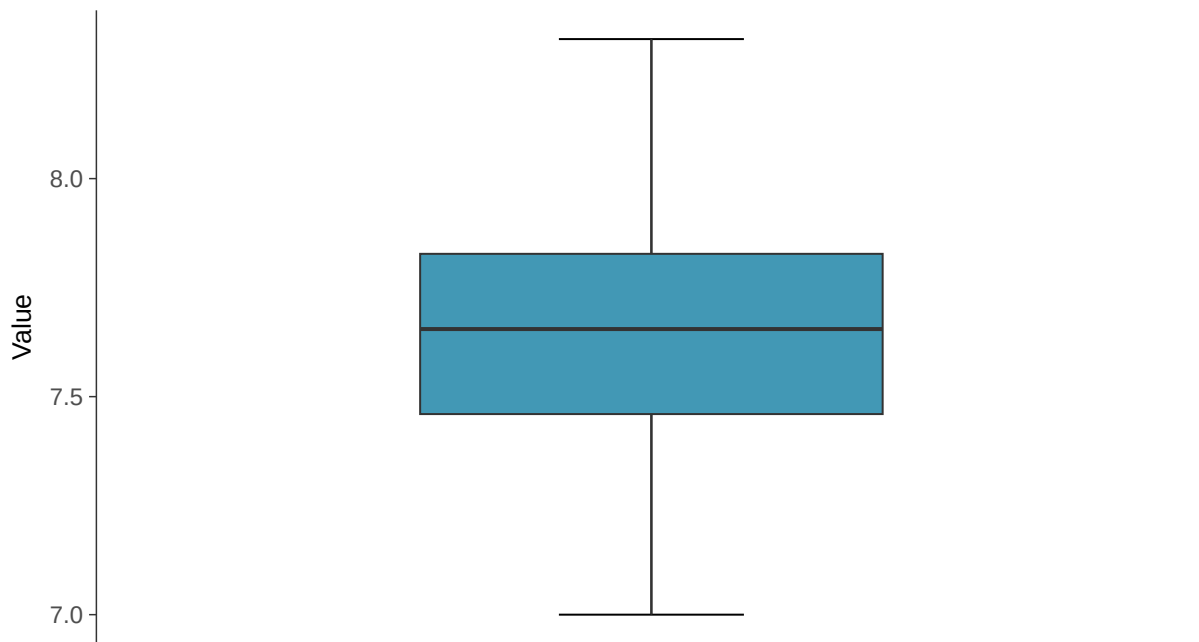
Appendix III: pH (field), MW-12

ID: 22_2_3_120



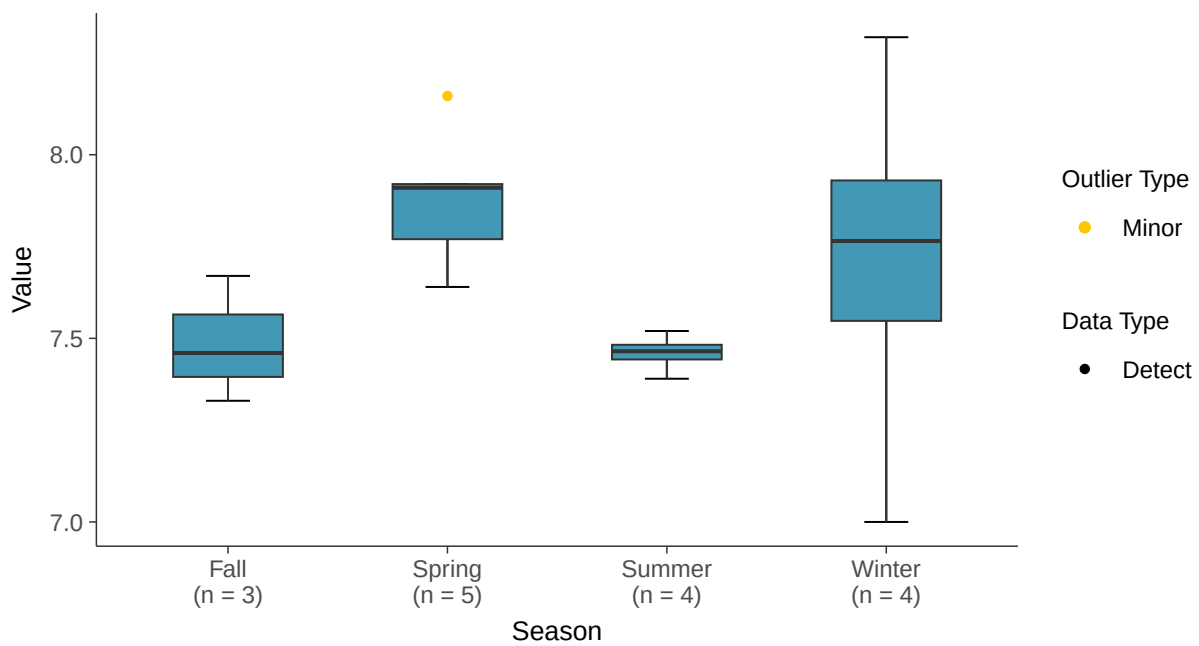
Boxplot

pH (field), MW-12 (su)

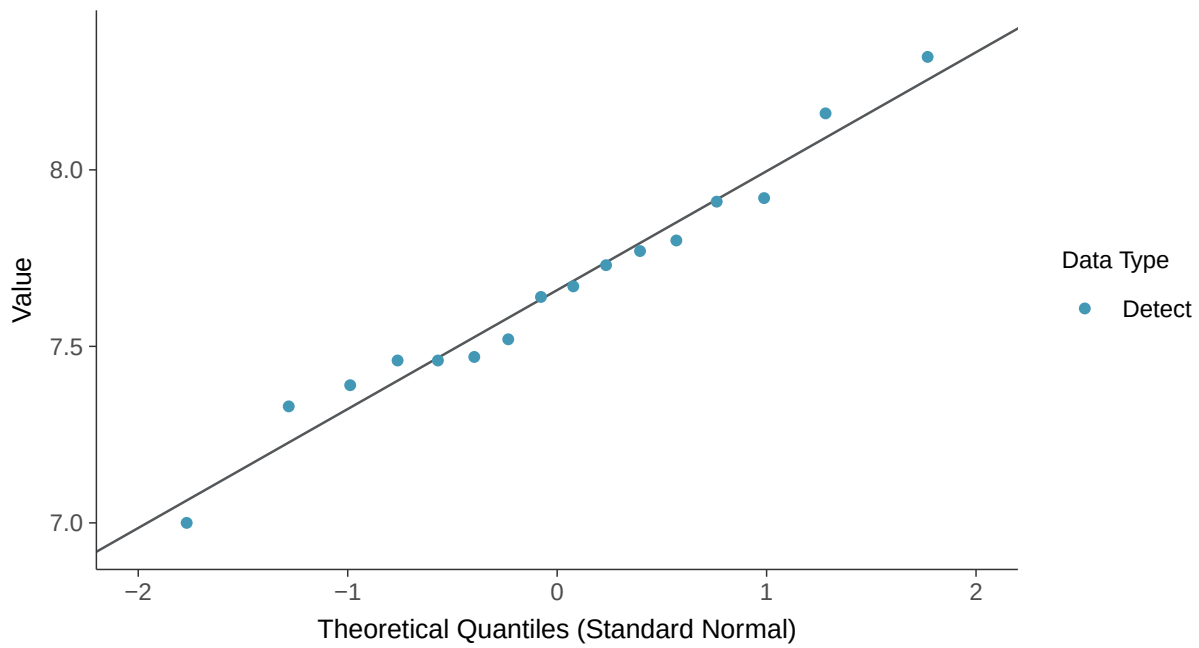


Boxplot by Season

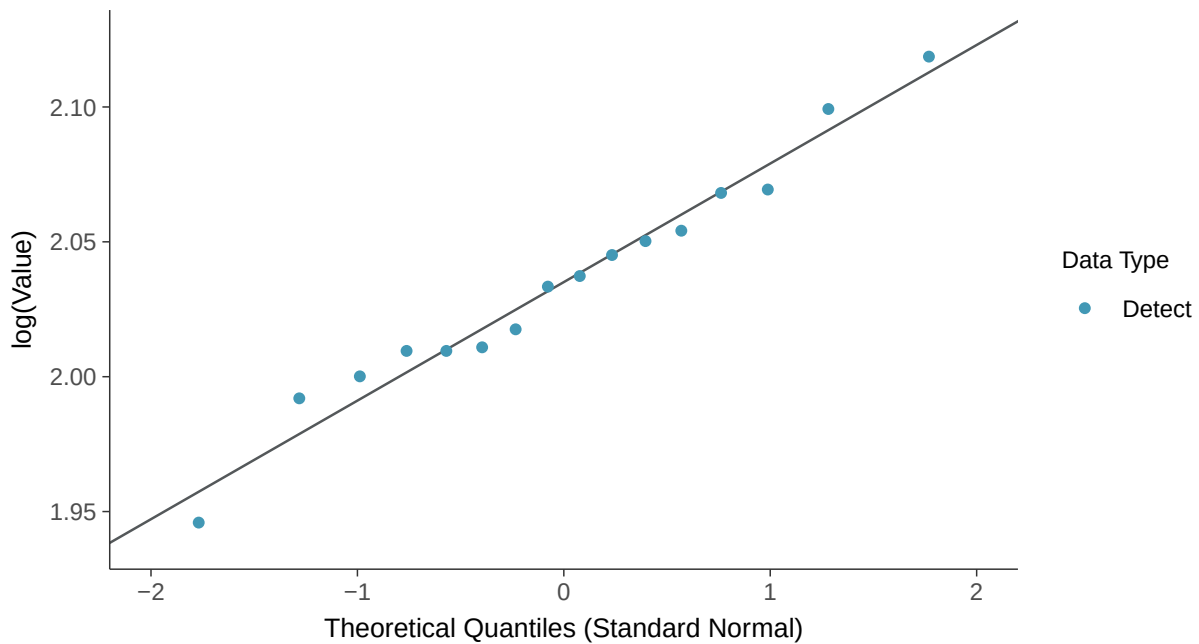
pH (field), MW-12 (su)



Normal Q-Q plot
pH (field), MW-12 (su)

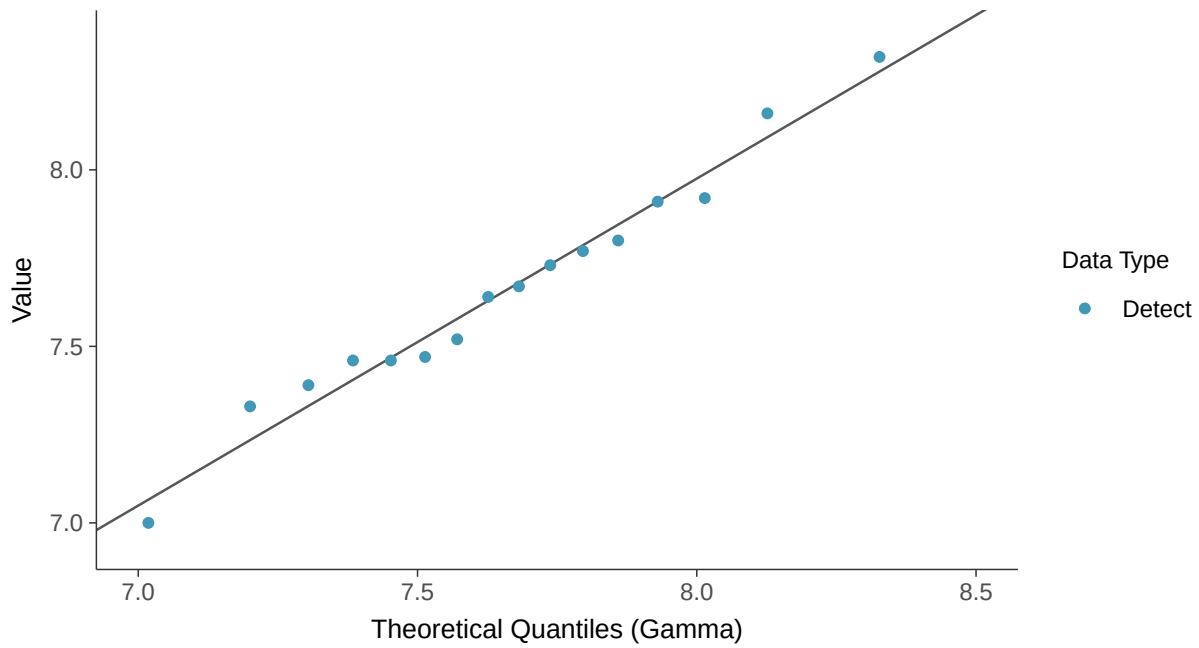


Lognormal Q-Q plot
pH (field), MW-12 (su)



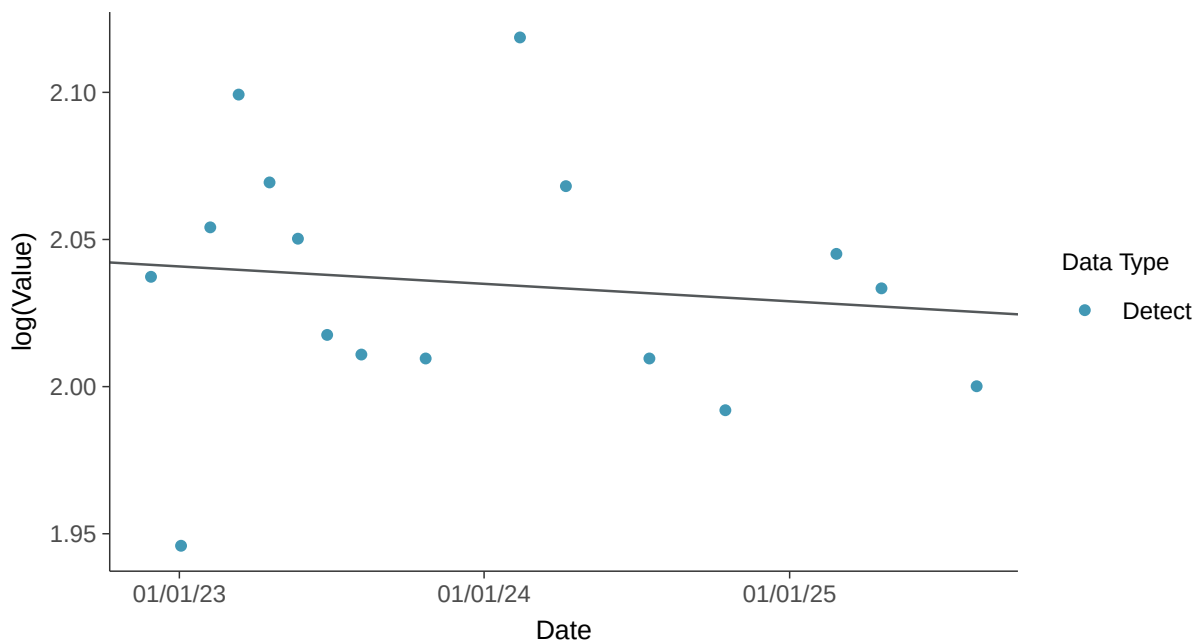
Gamma Q-Q plot

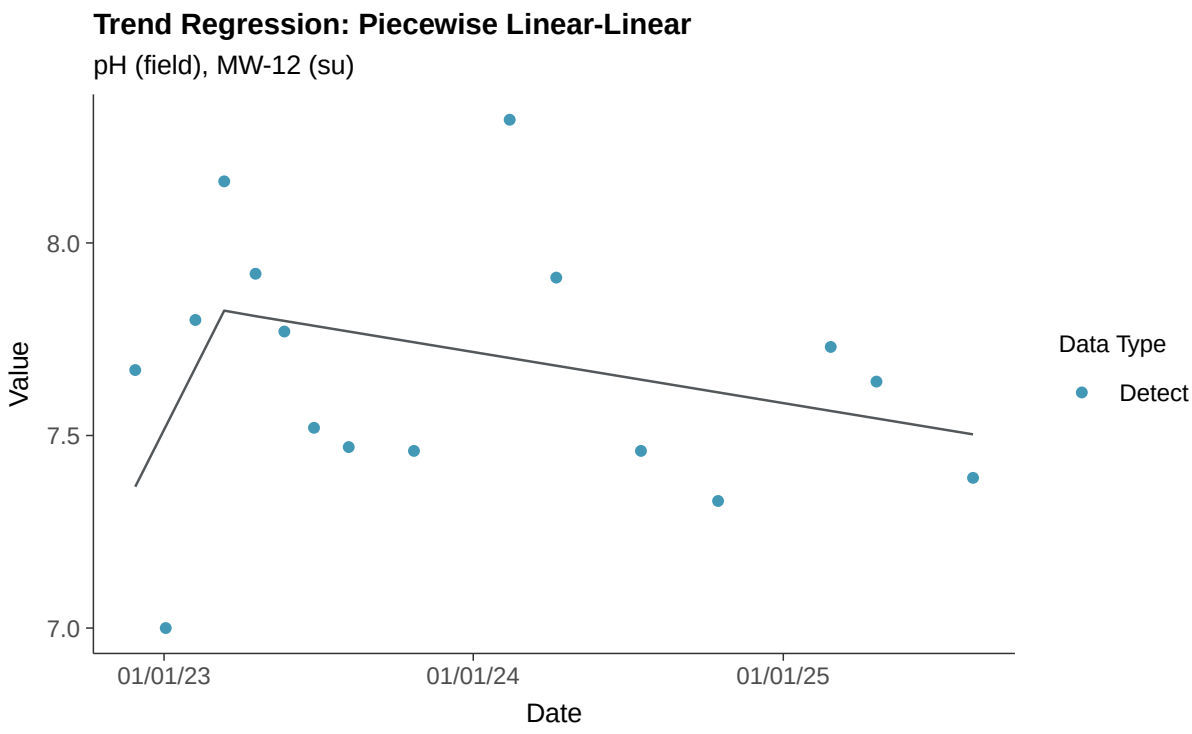
pH (field), MW-12 (su)



Trend Regression: Lognormal MLE

pH (field), MW-12 (su)



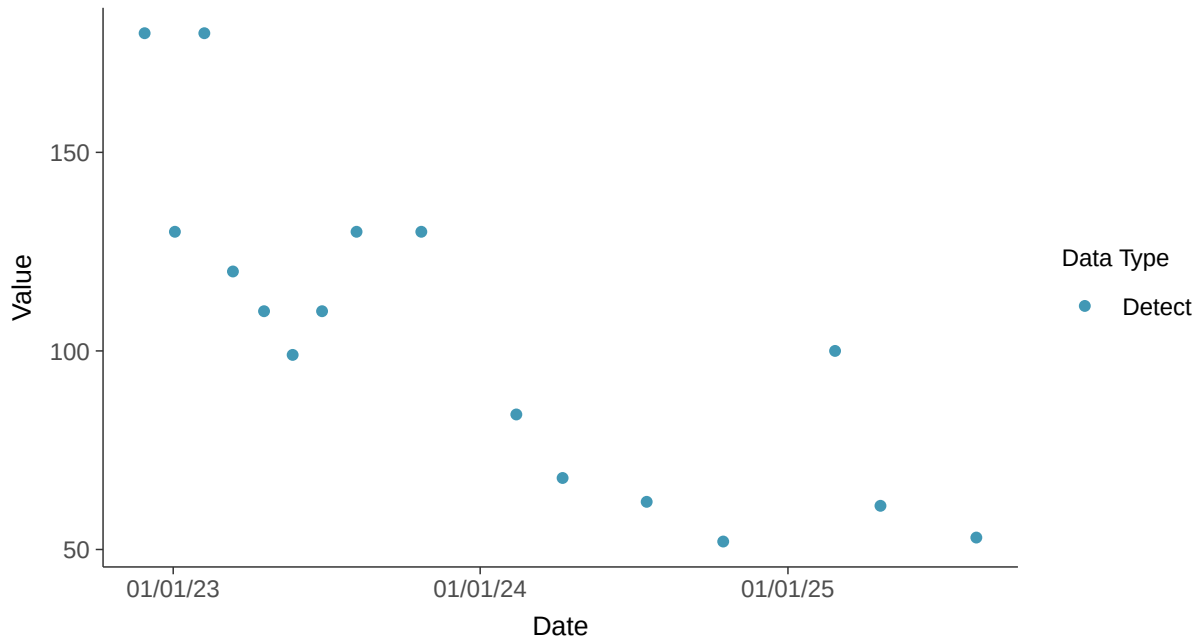


Appendix III: Sulfate (as SO₄), MW-12

ID: 22_2_3_124

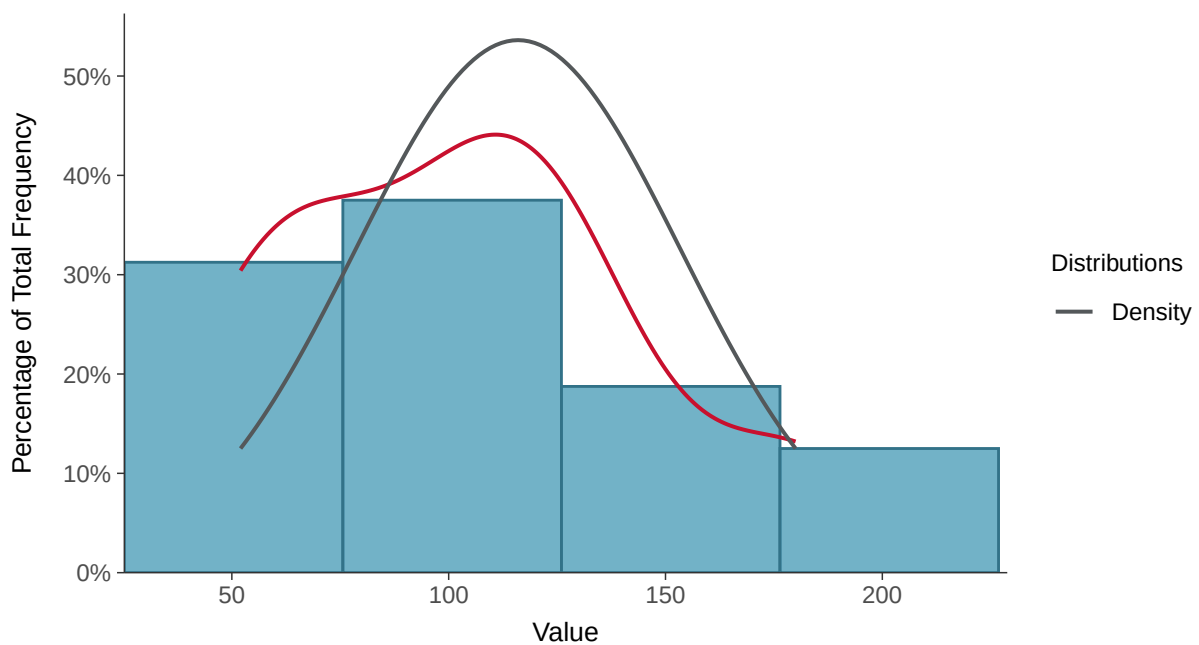
Scatter Plot

Sulfate (as SO₄), MW-12 (mg/L)



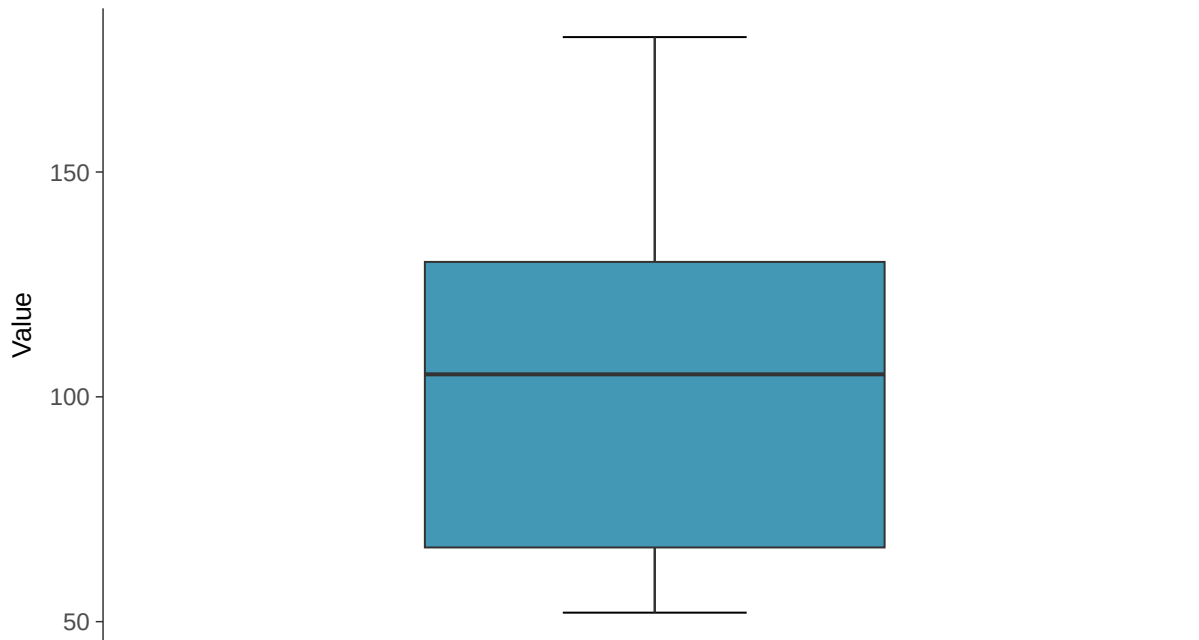
Histogram

Sulfate (as SO₄), MW-12 (mg/L)



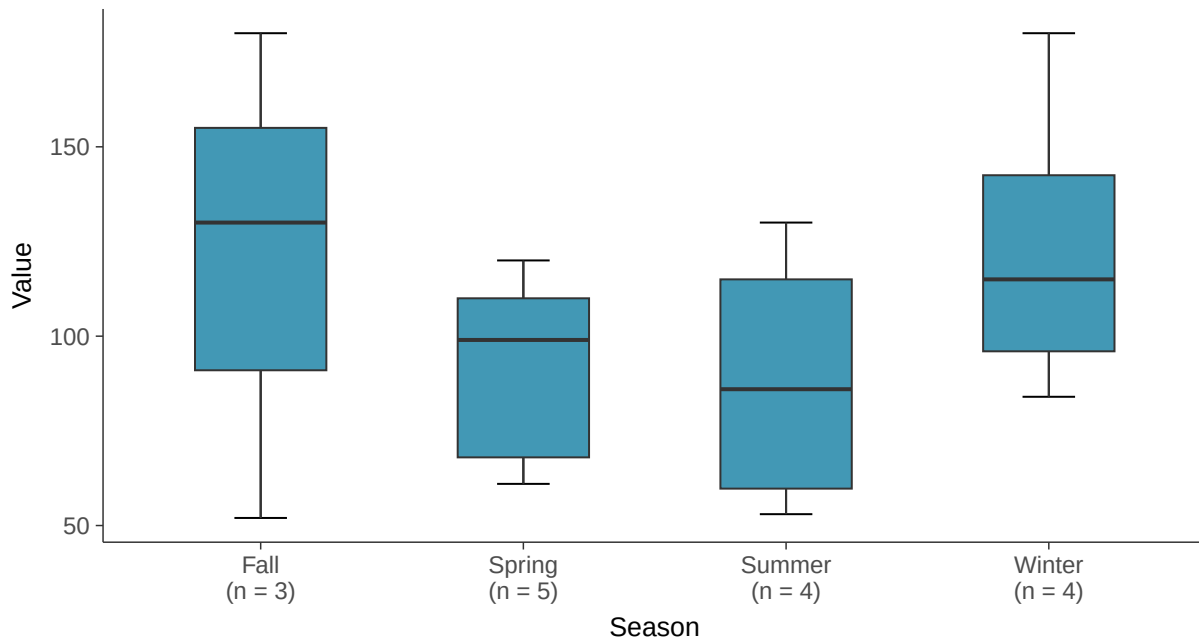
Boxplot

Sulfate (as SO₄), MW-12 (mg/L)



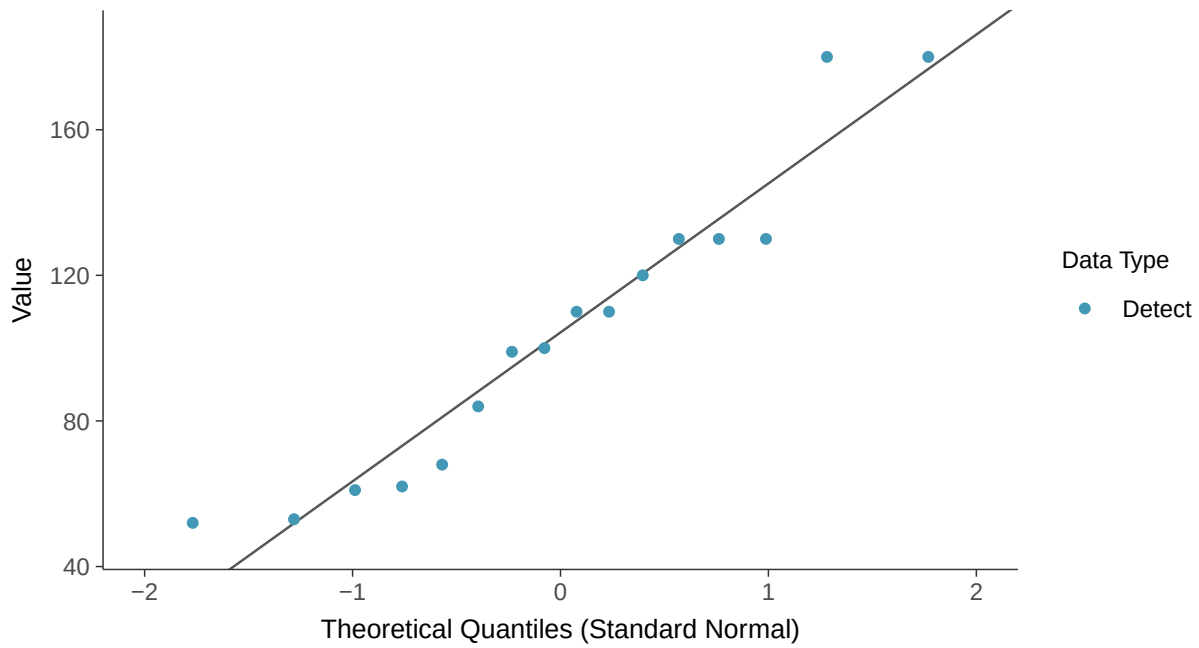
Boxplot by Season

Sulfate (as SO₄), MW-12 (mg/L)



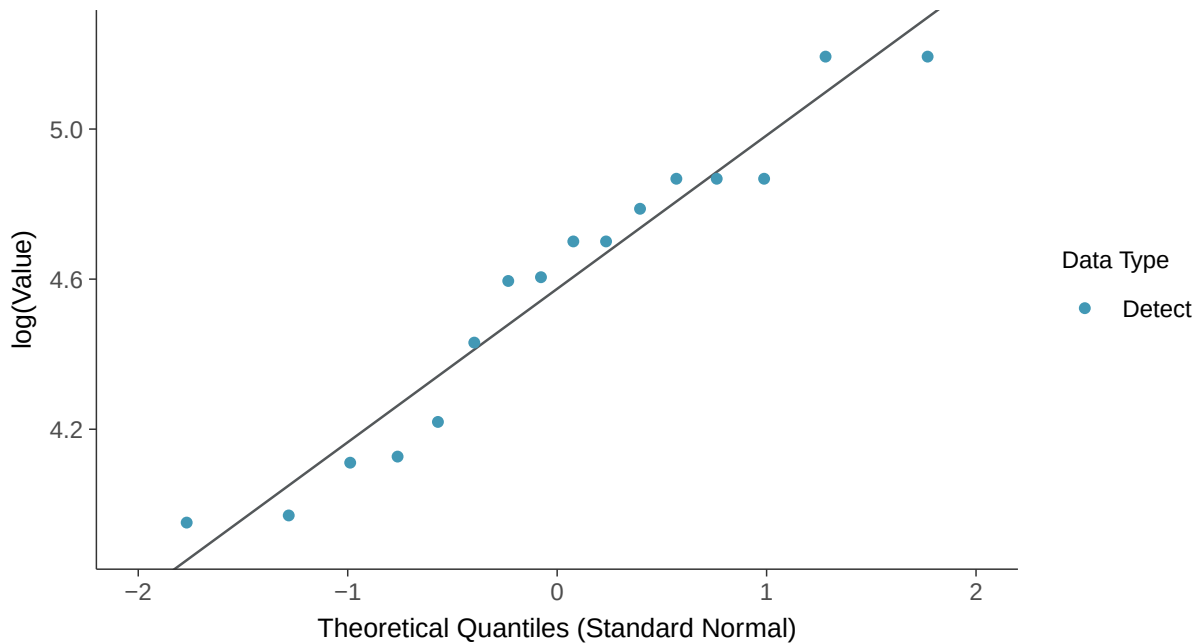
Normal Q-Q plot

Sulfate (as SO₄), MW-12 (mg/L)



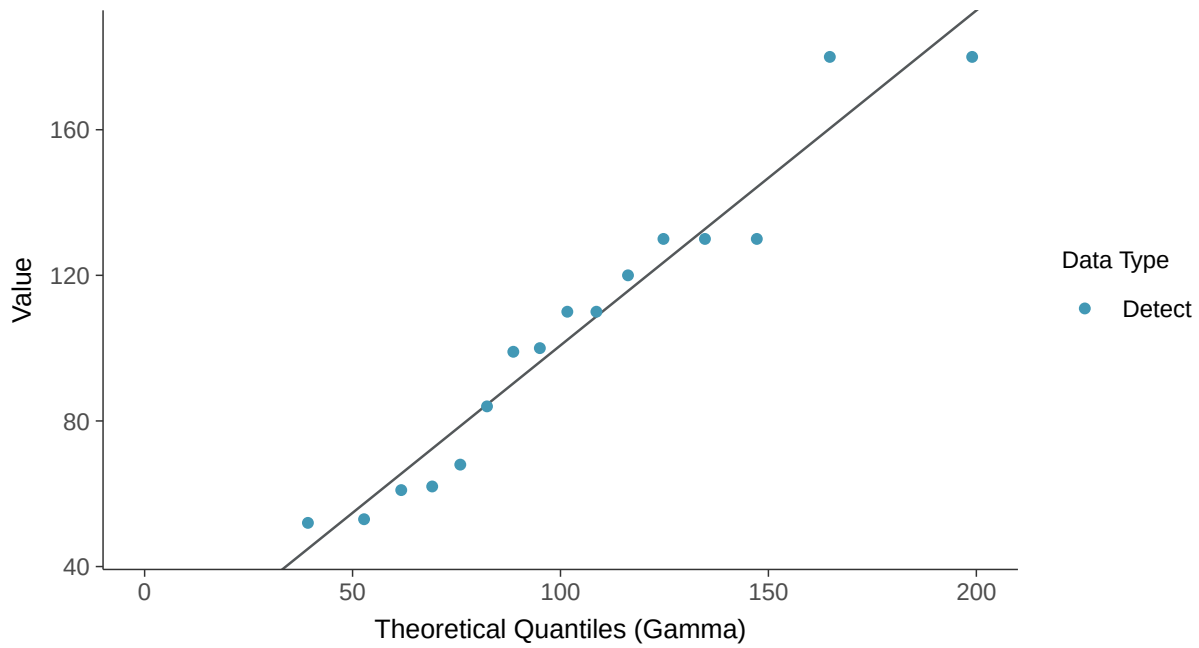
Lognormal Q-Q plot

Sulfate (as SO₄), MW-12 (mg/L)



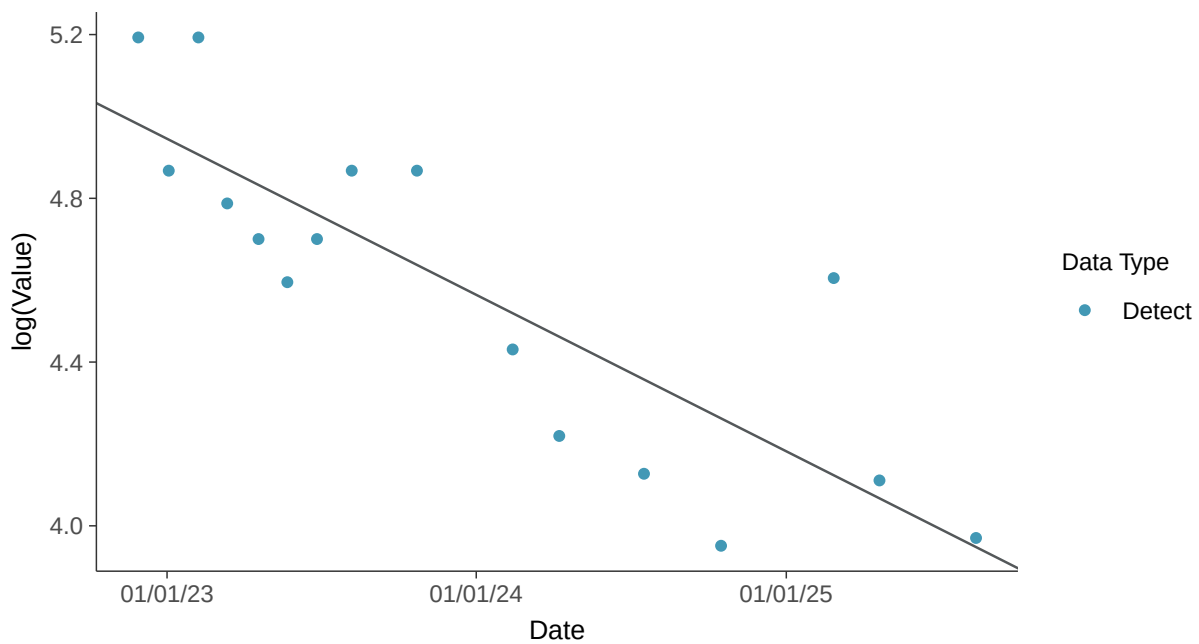
Gamma Q-Q plot

Sulfate (as SO₄), MW-12 (mg/L)



Trend Regression: Lognormal MLE

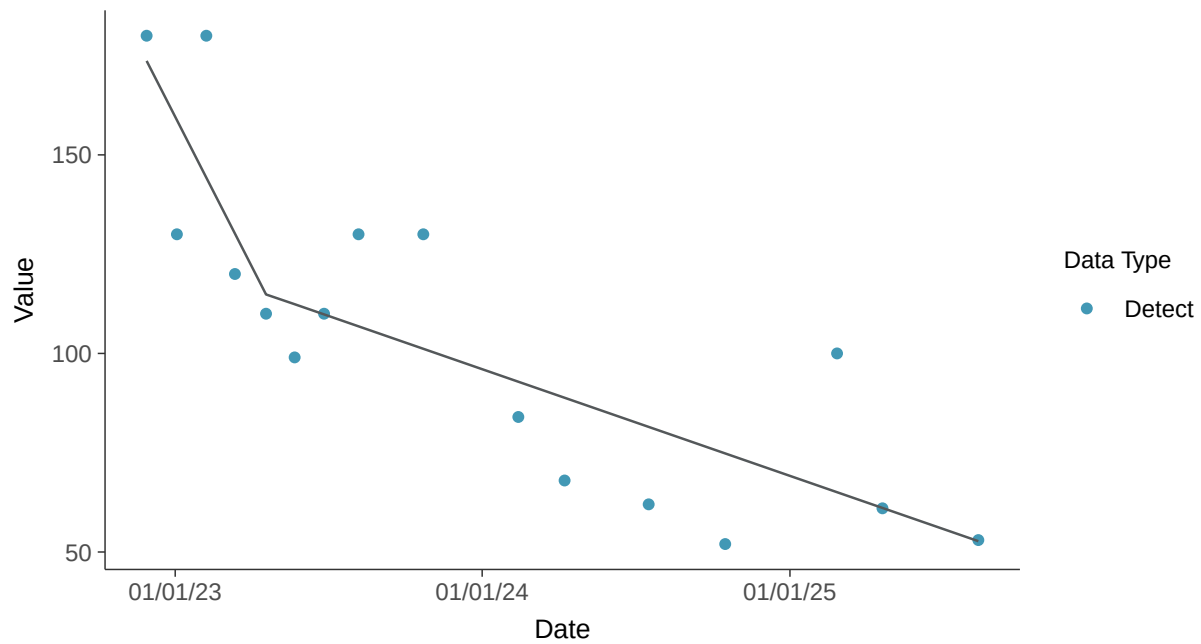
Sulfate (as SO₄), MW-12 (mg/L)





Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-12 (mg/L)

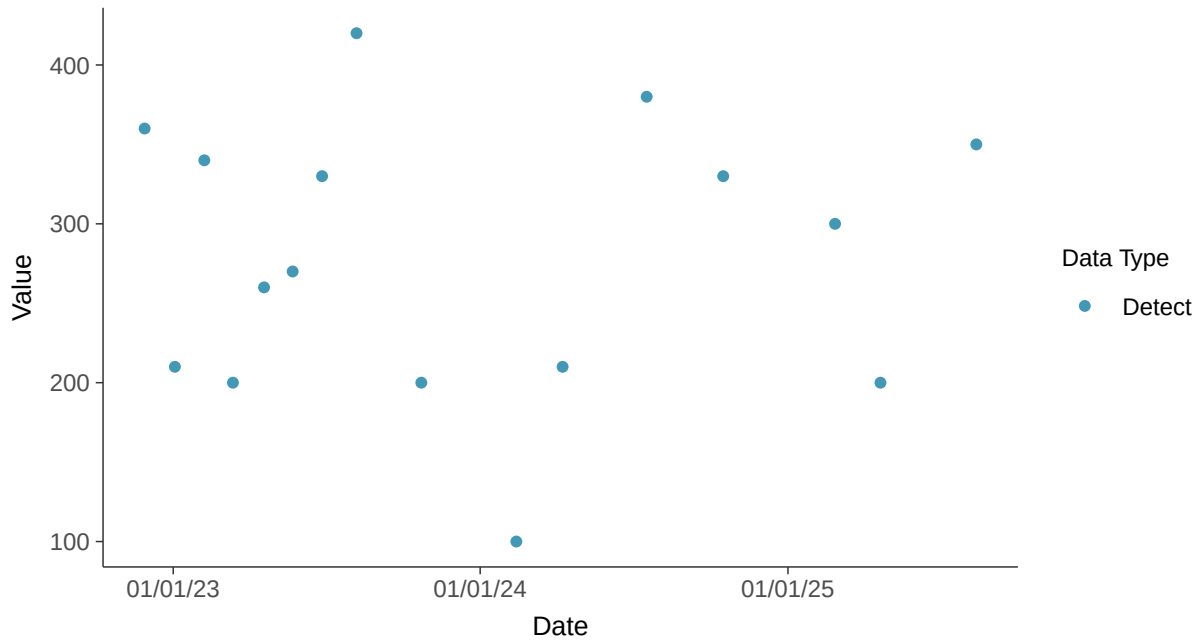


Appendix III: Total Dissolved Solids, MW-12

ID: 22_2_3_126

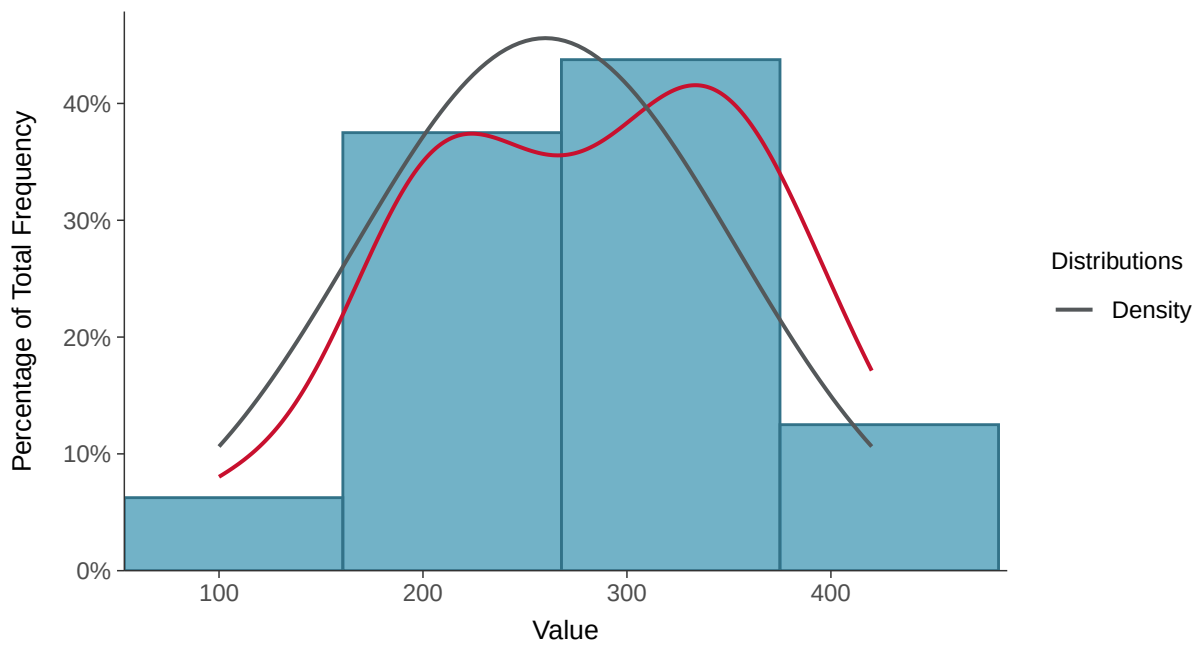
Scatter Plot

Total Dissolved Solids, MW-12 (mg/L)



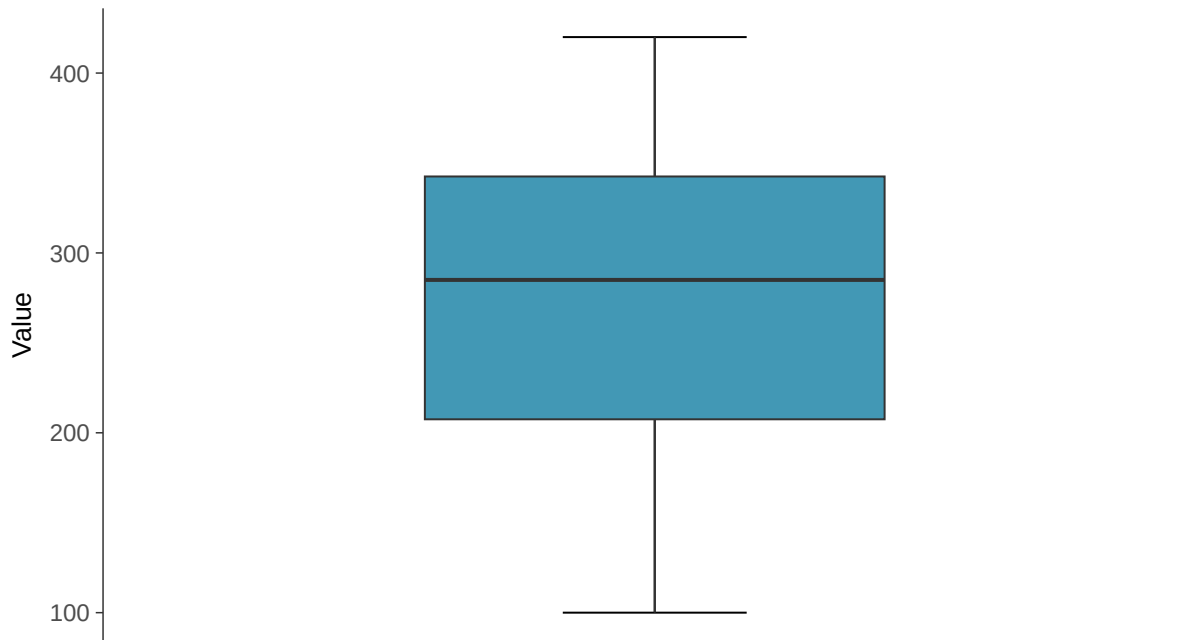
Histogram

Total Dissolved Solids, MW-12 (mg/L)



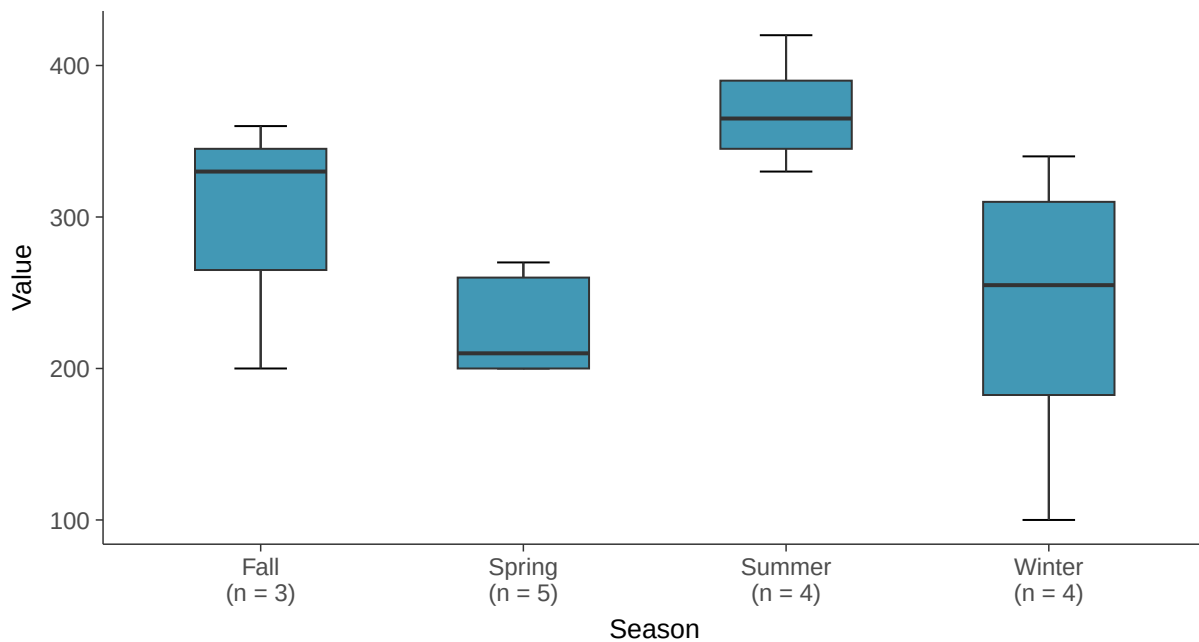
Boxplot

Total Dissolved Solids, MW-12 (mg/L)



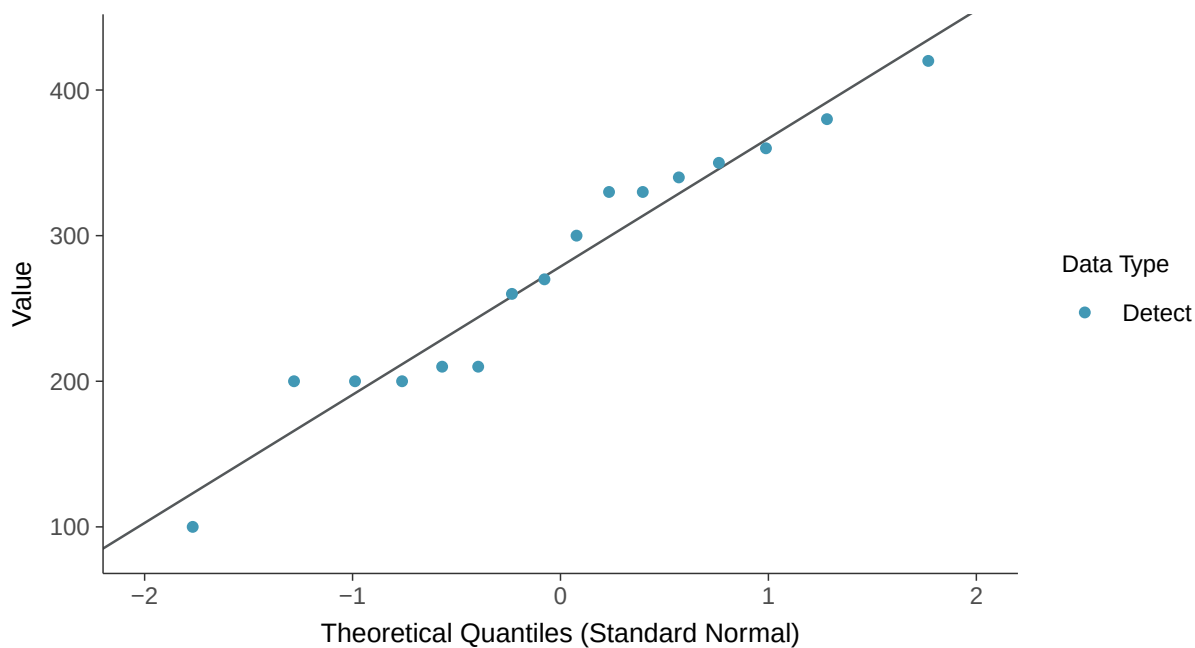
Boxplot by Season

Total Dissolved Solids, MW-12 (mg/L)



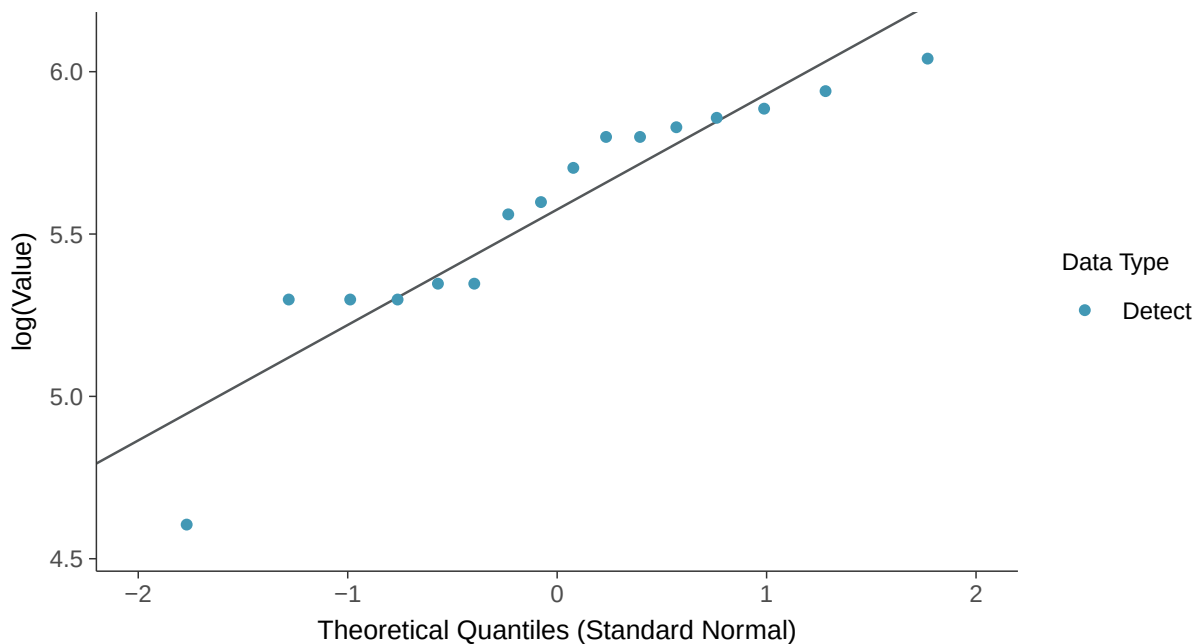
Normal Q-Q plot

Total Dissolved Solids, MW-12 (mg/L)



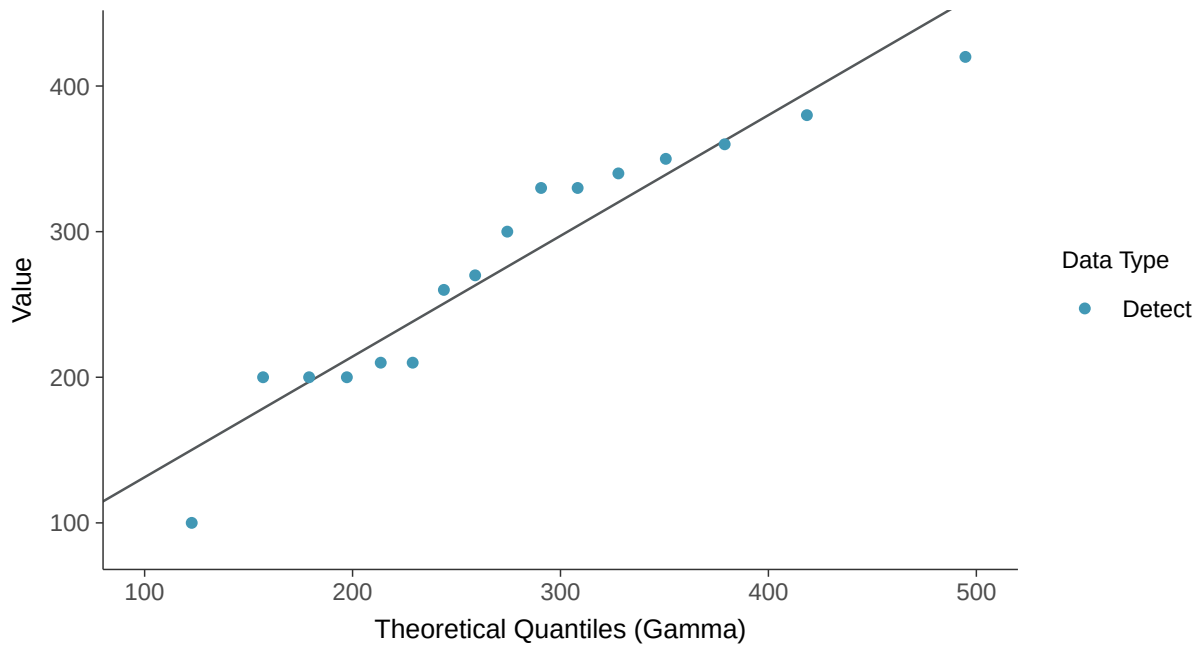
Lognormal Q-Q plot

Total Dissolved Solids, MW-12 (mg/L)



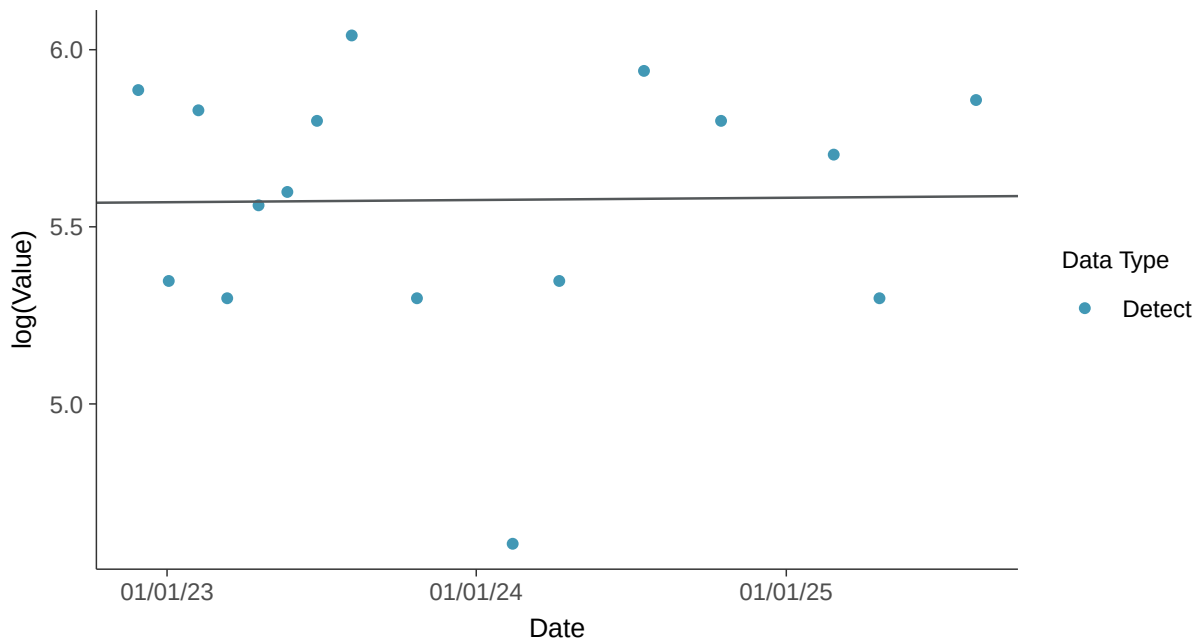
Gamma Q-Q plot

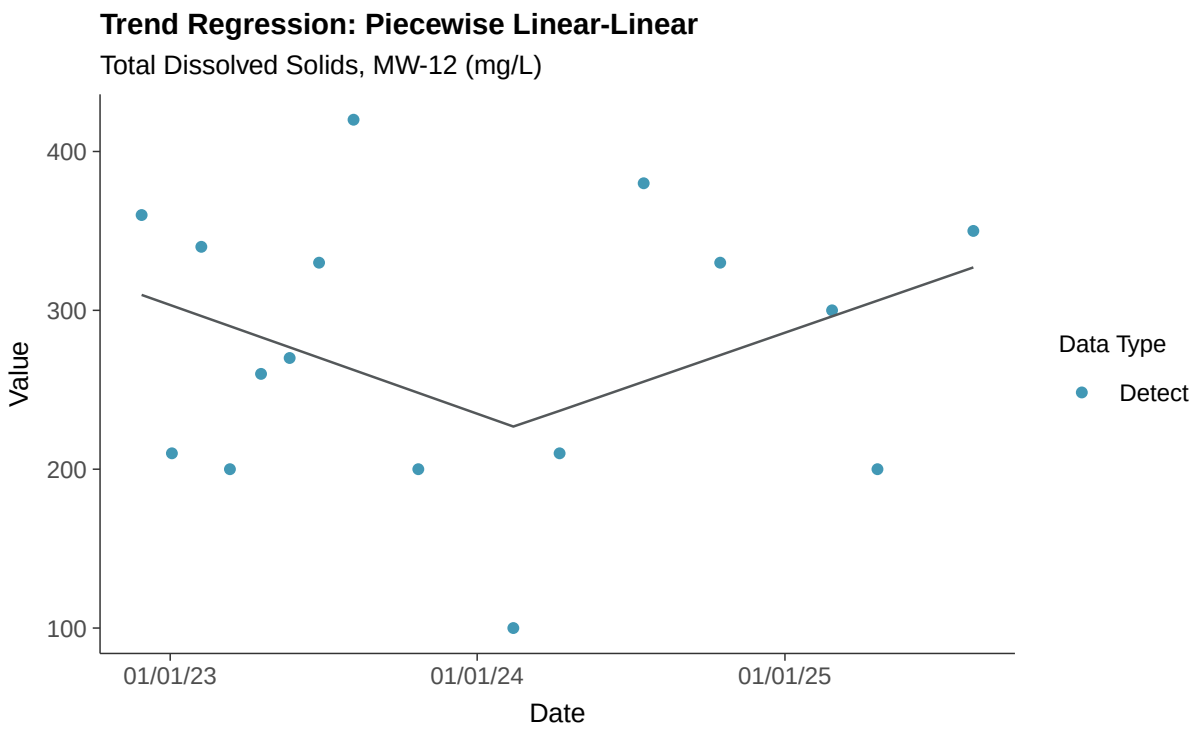
Total Dissolved Solids, MW-12 (mg/L)



Trend Regression: Lognormal MLE

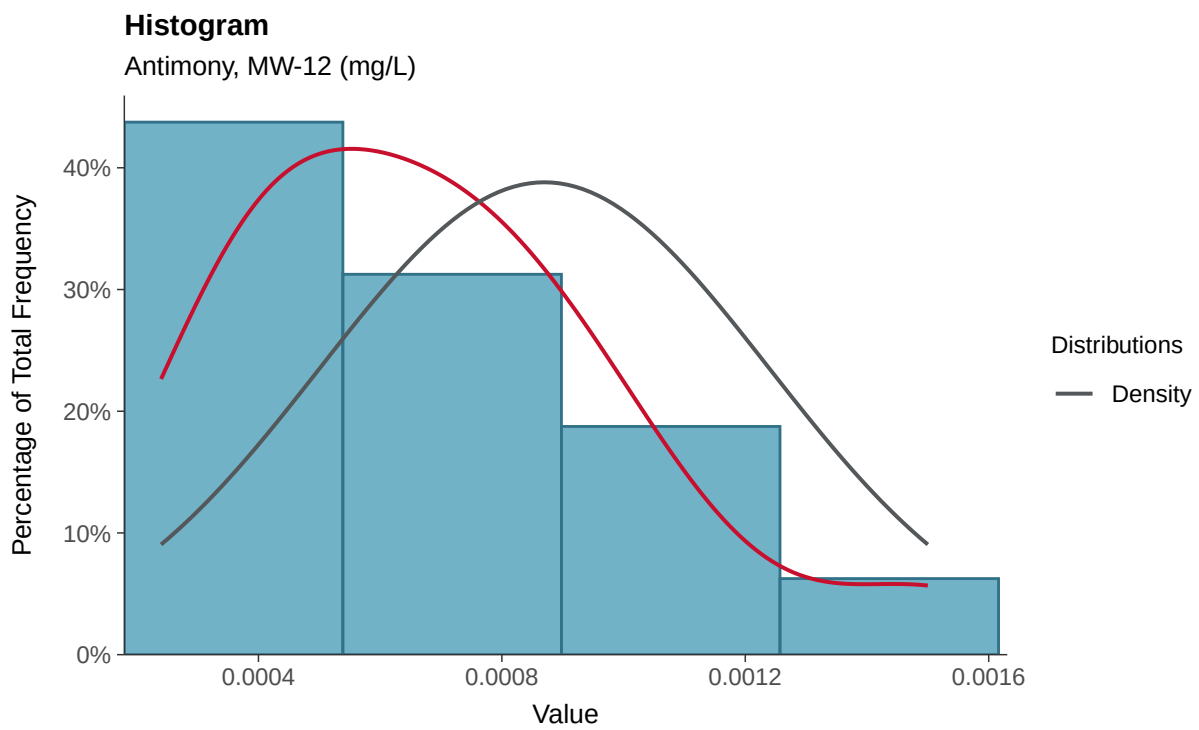
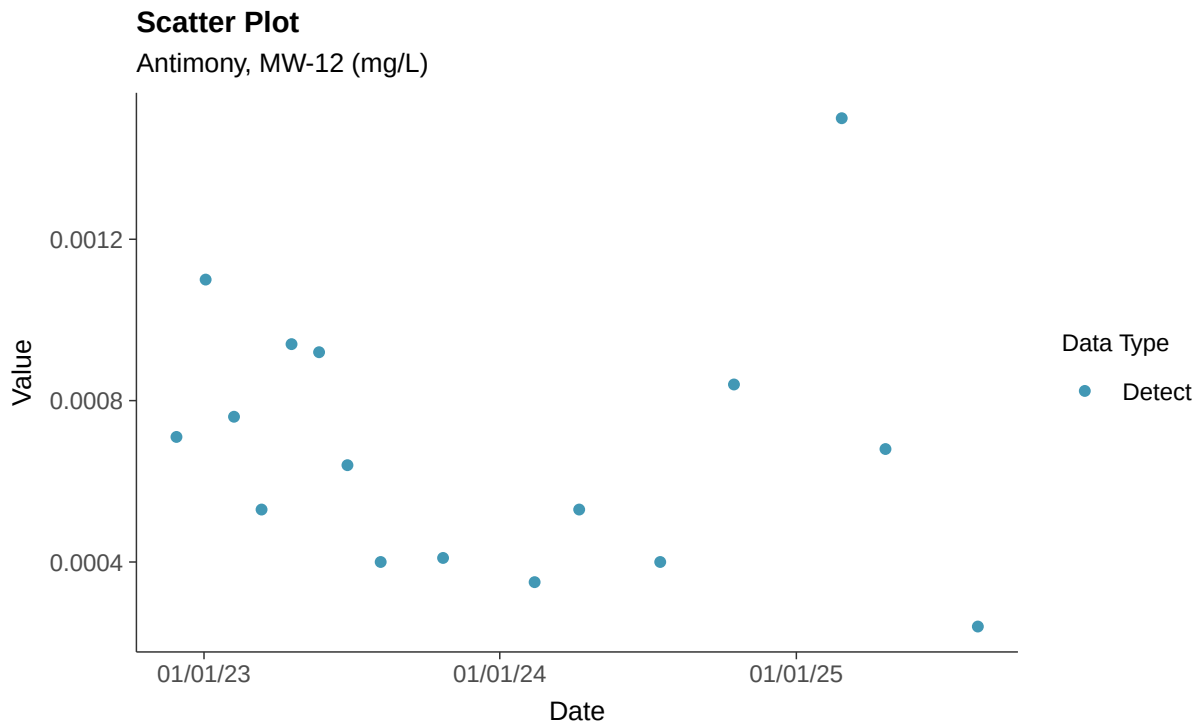
Total Dissolved Solids, MW-12 (mg/L)





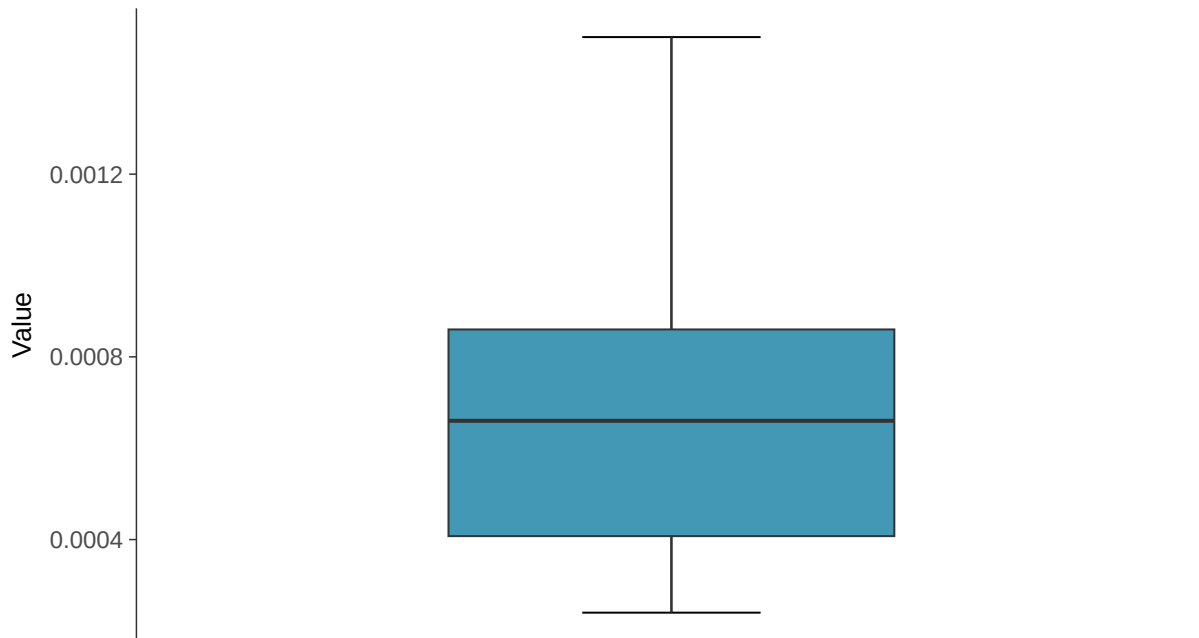
Appendix IV: Antimony, MW-12

ID: 22_2_4_101



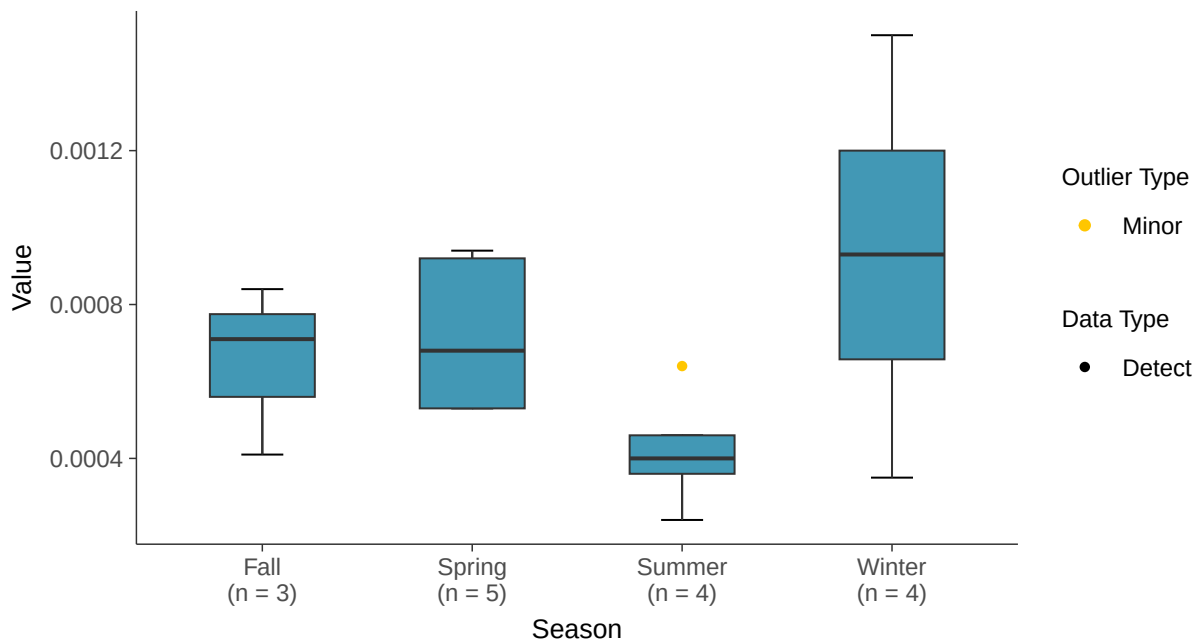
Boxplot

Antimony, MW-12 (mg/L)



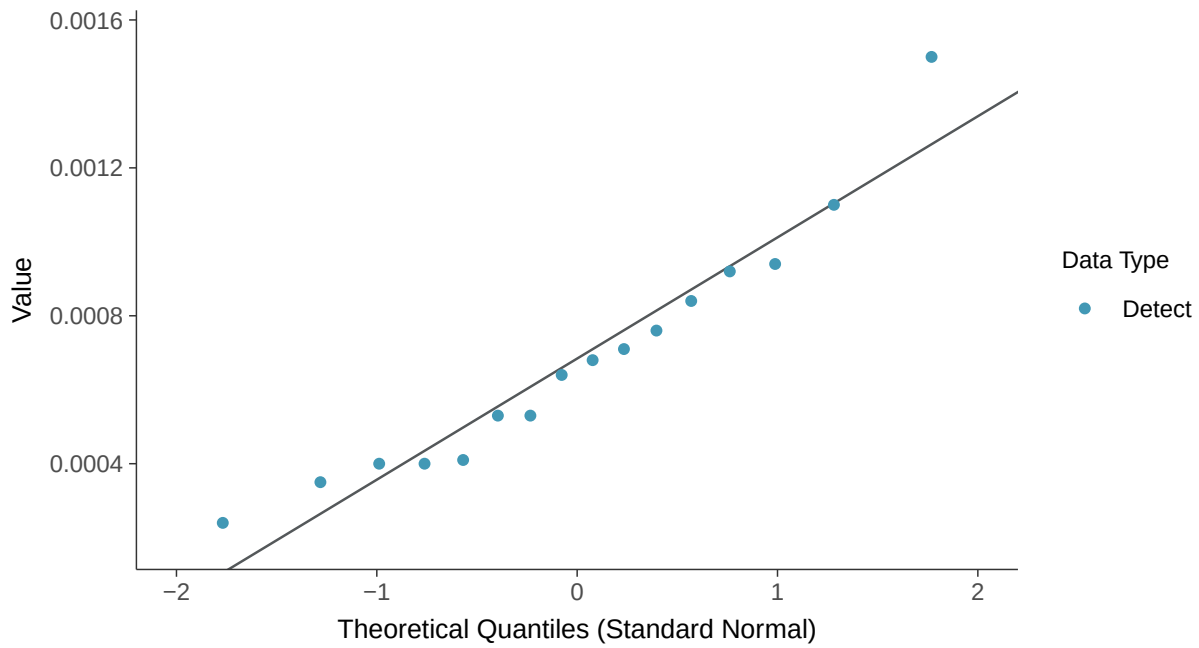
Boxplot by Season

Antimony, MW-12 (mg/L)



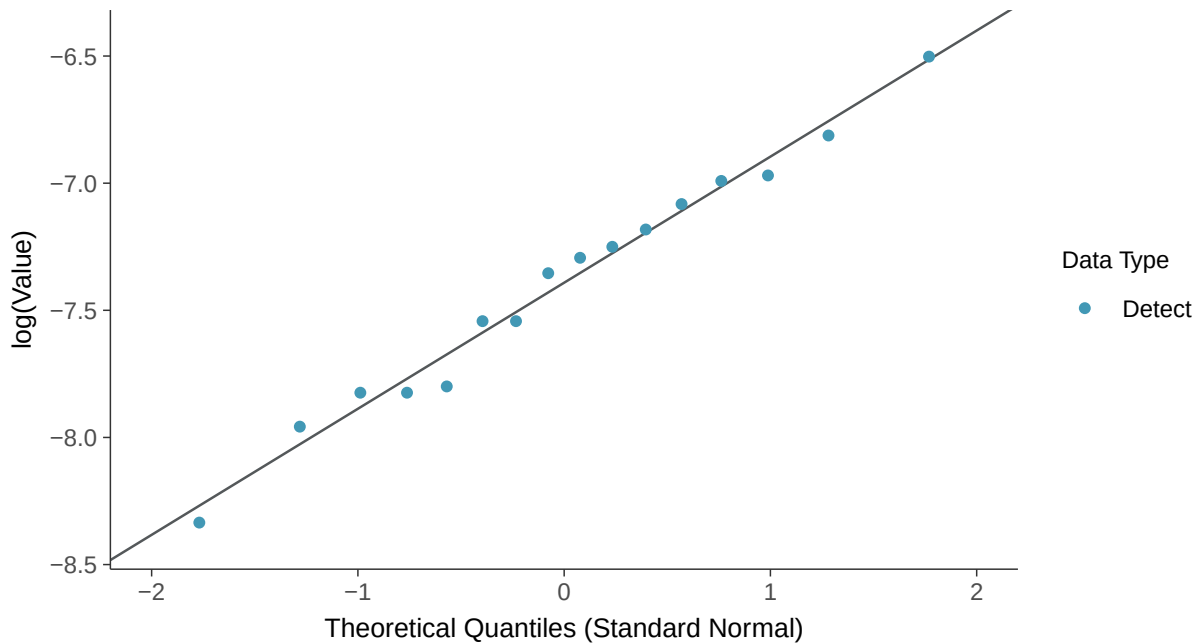
Normal Q-Q plot

Antimony, MW-12 (mg/L)



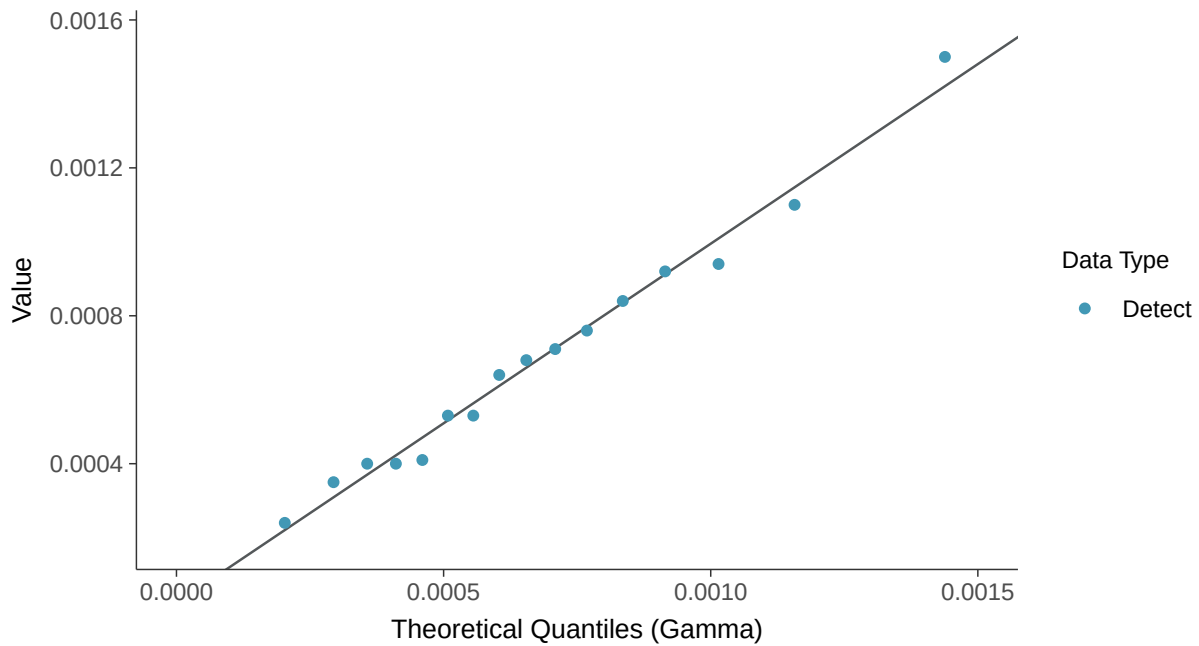
Lognormal Q-Q plot

Antimony, MW-12 (mg/L)



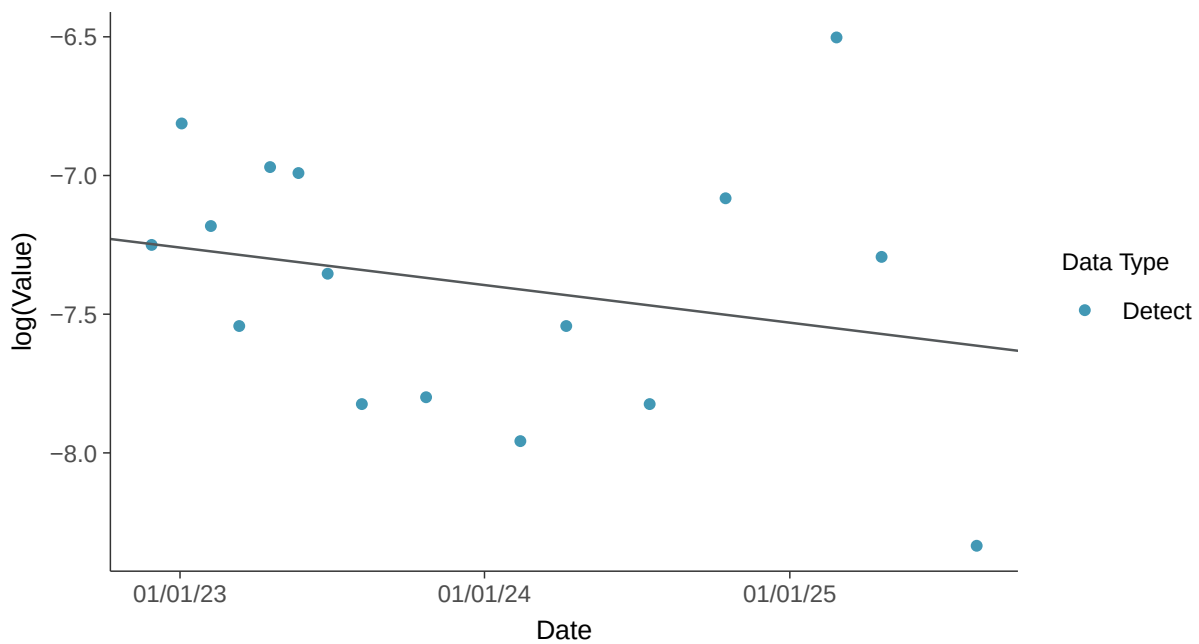
Gamma Q-Q plot

Antimony, MW-12 (mg/L)



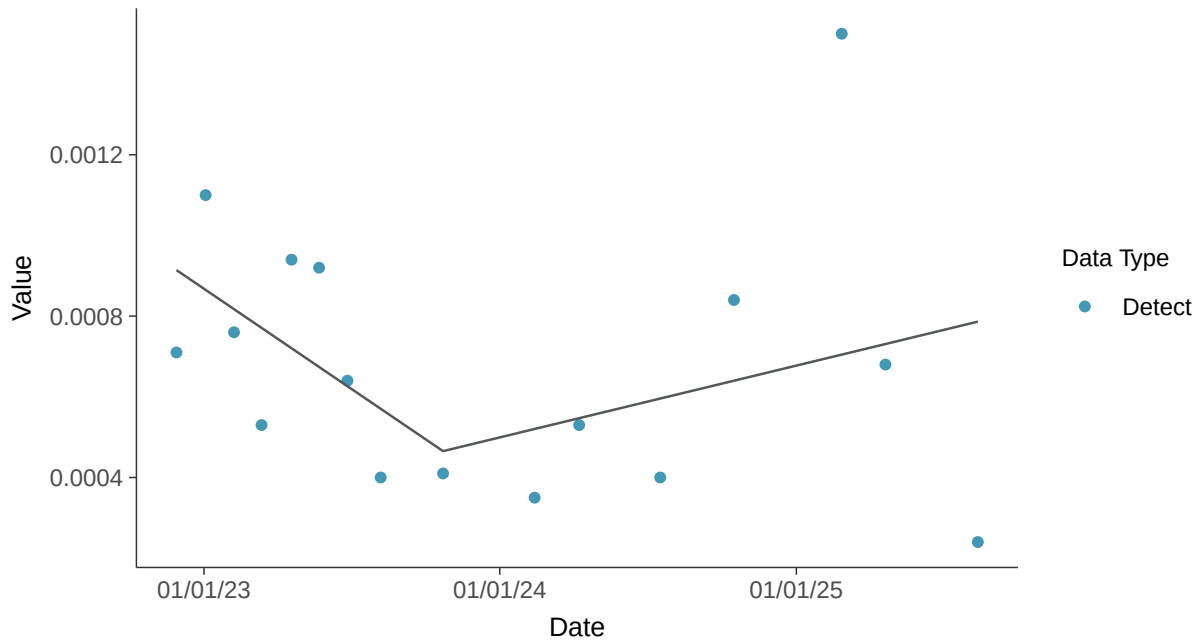
Trend Regression: Lognormal MLE

Antimony, MW-12 (mg/L)



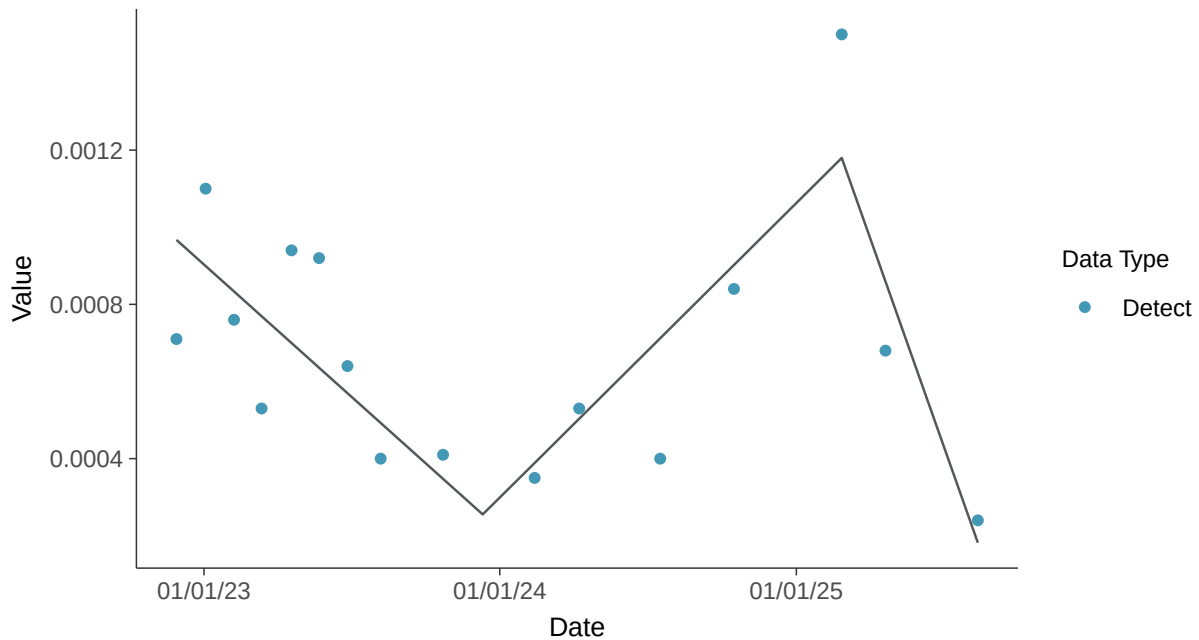
Trend Regression: Piecewise Linear-Linear

Antimony, MW-12 (mg/L)



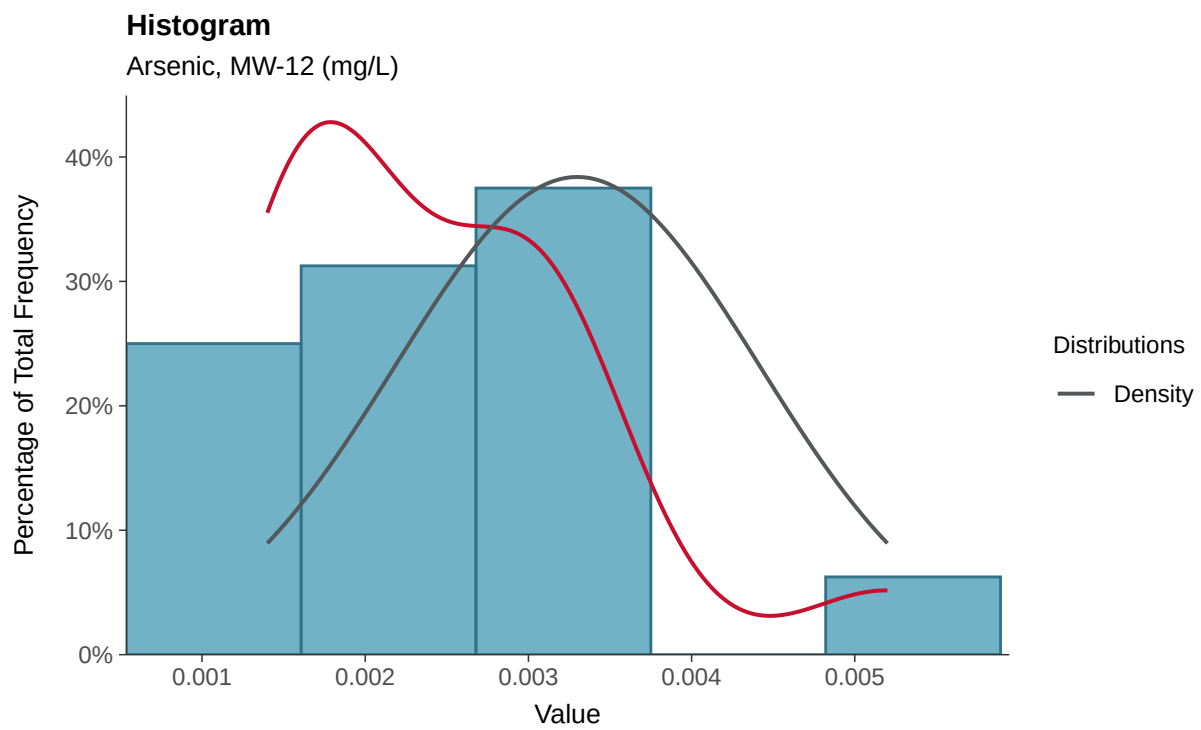
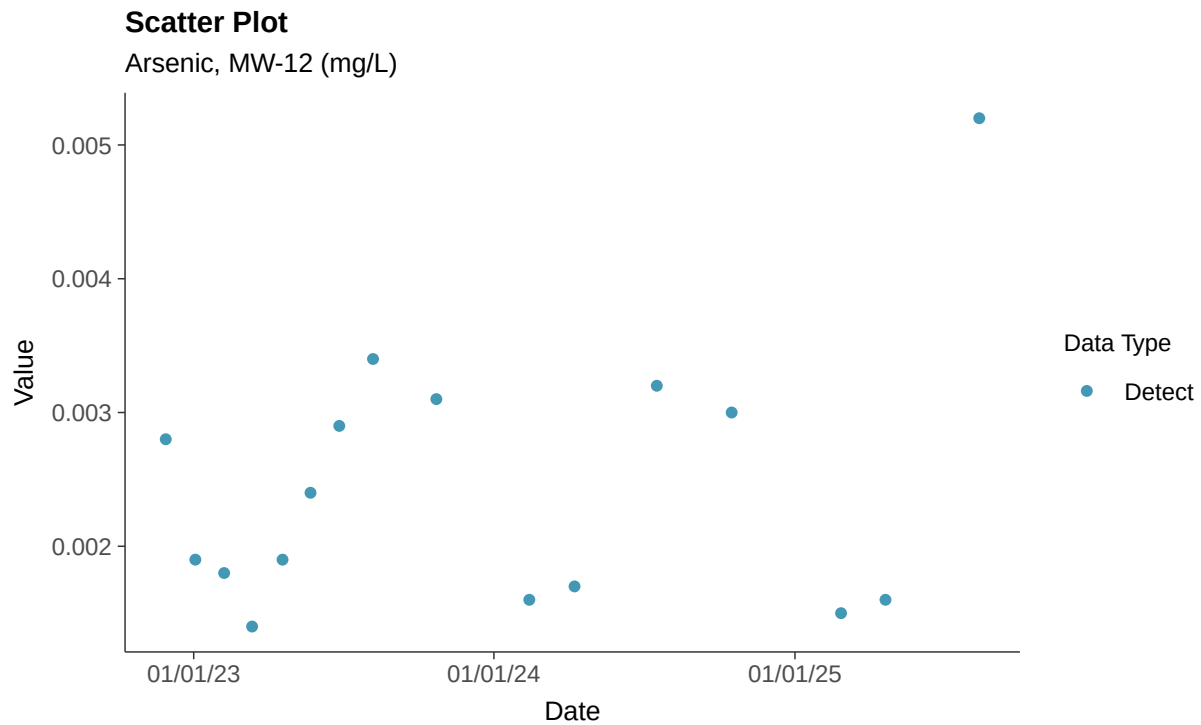
Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-12 (mg/L)



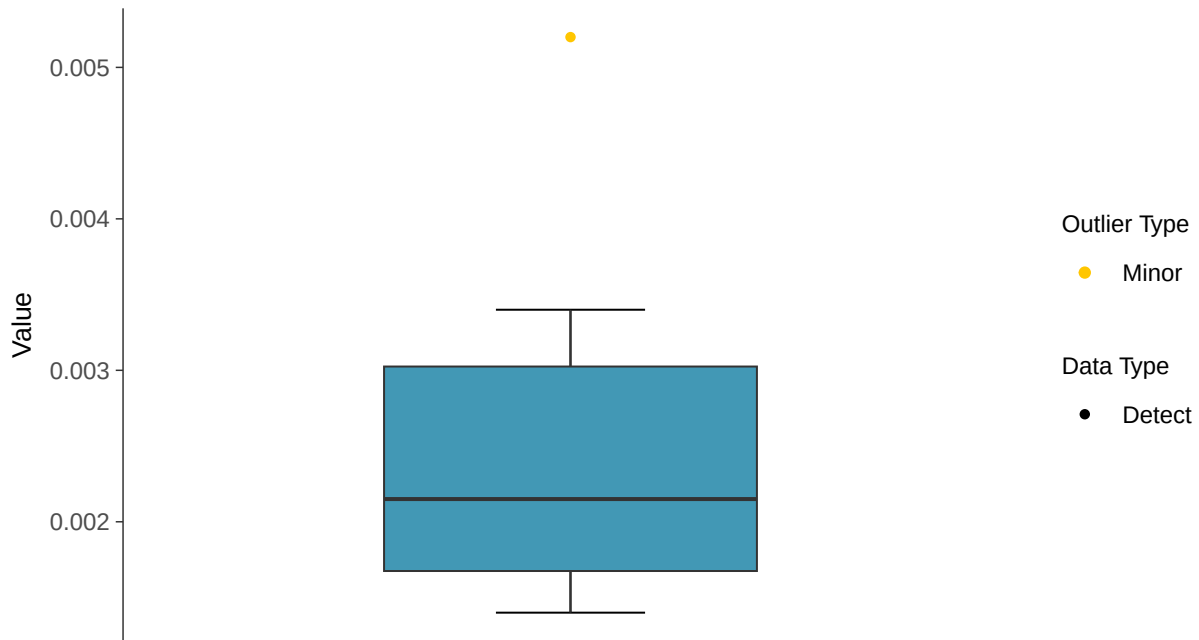
Appendix IV: Arsenic, MW-12

ID: 22_2_4_102



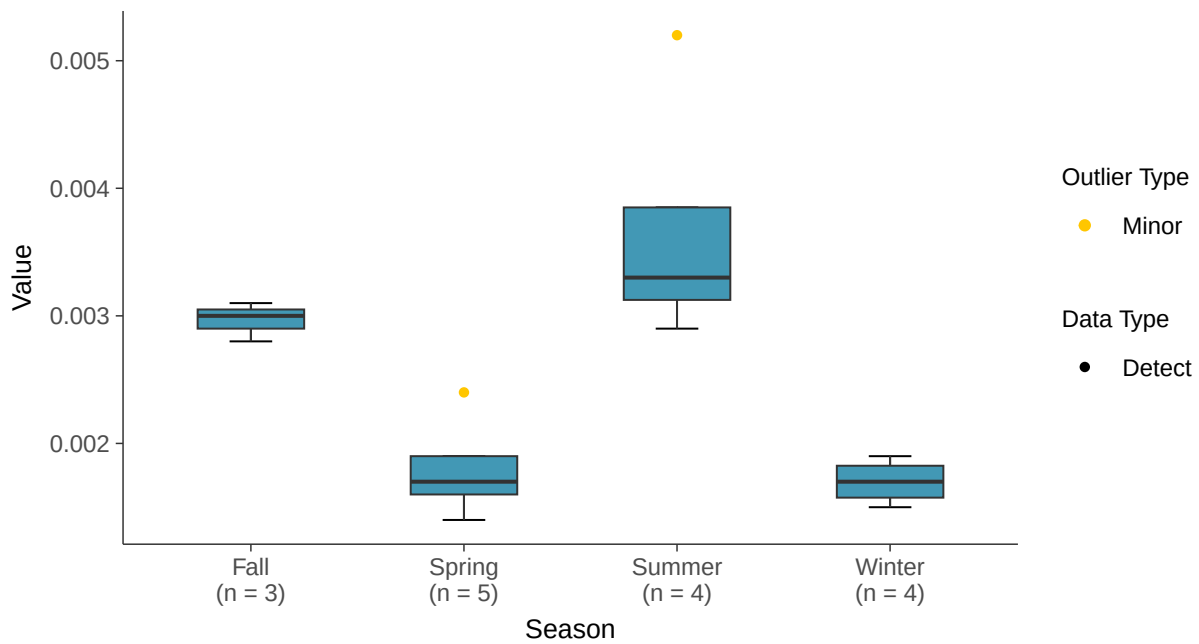
Boxplot

Arsenic, MW-12 (mg/L)



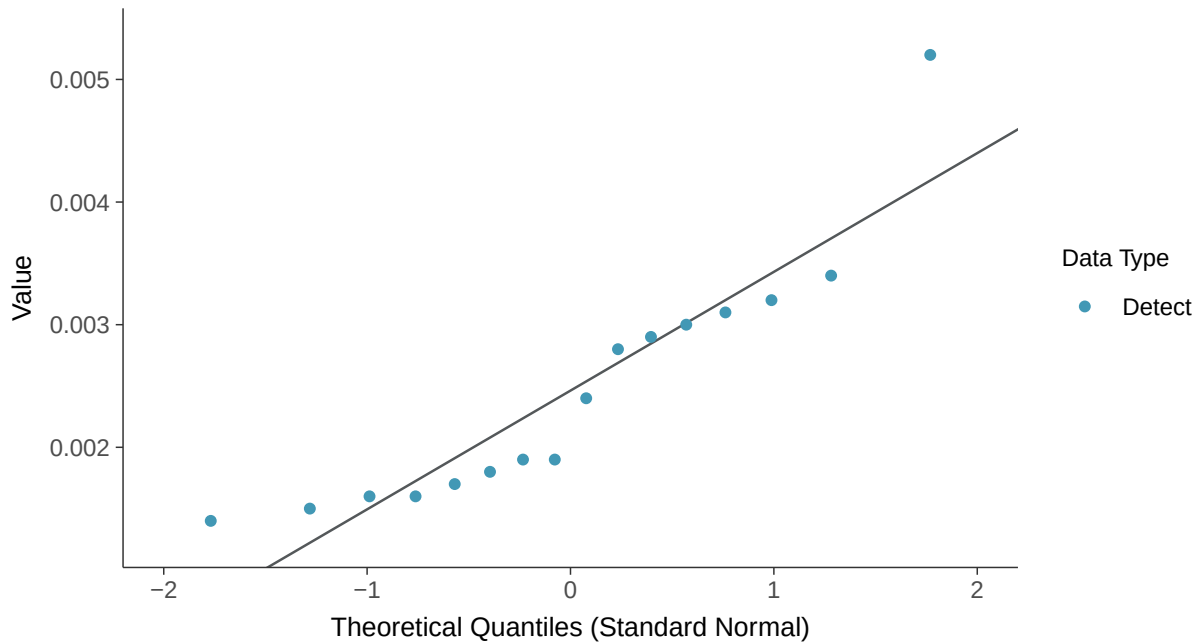
Boxplot by Season

Arsenic, MW-12 (mg/L)



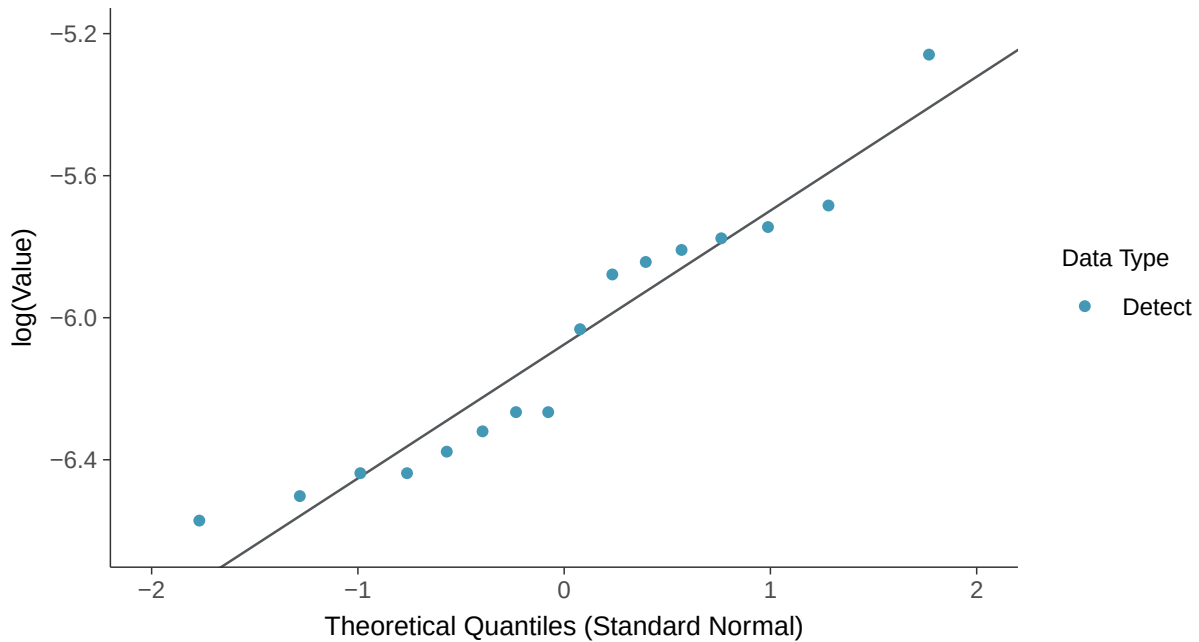
Normal Q-Q plot

Arsenic, MW-12 (mg/L)

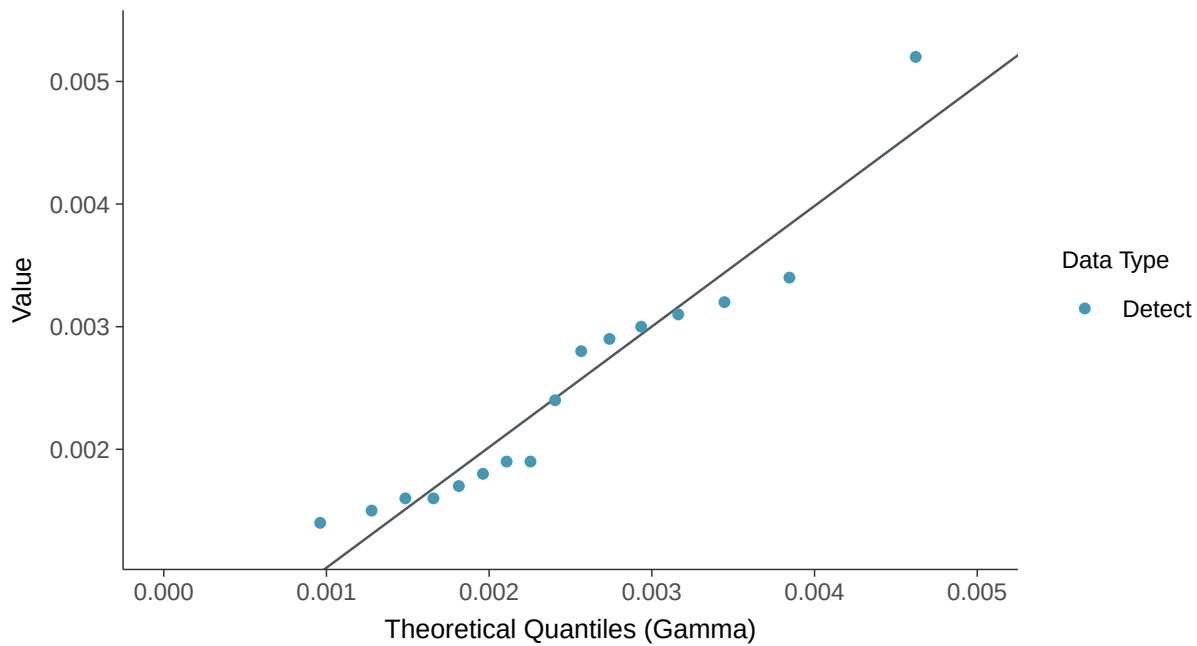


Lognormal Q-Q plot

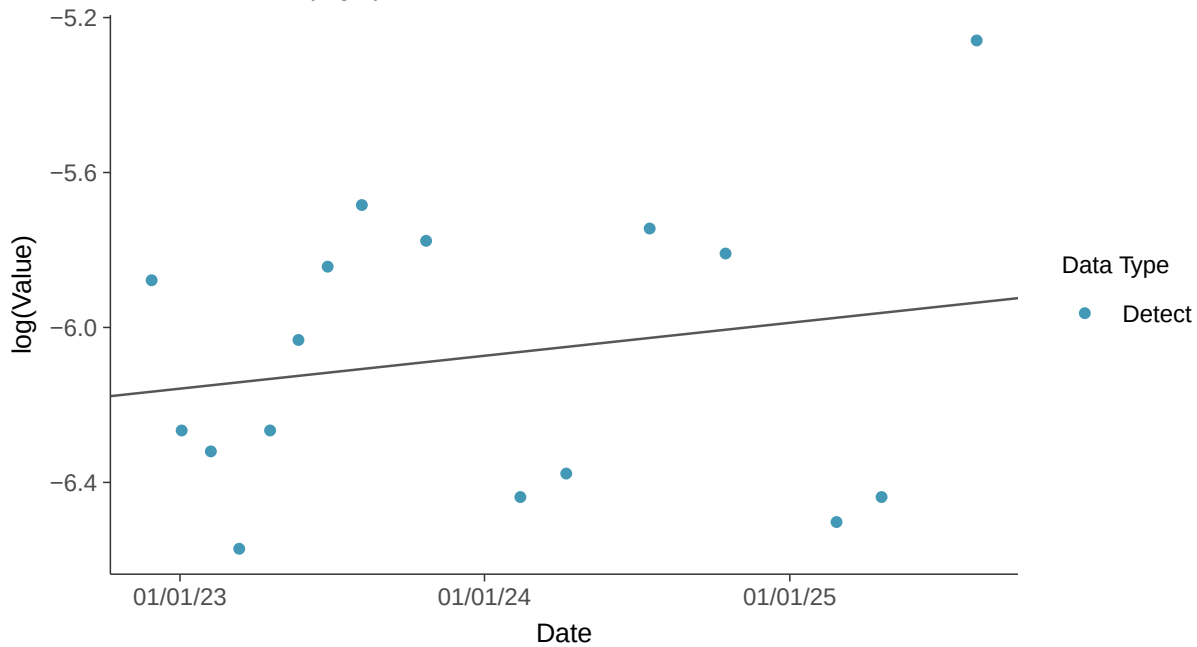
Arsenic, MW-12 (mg/L)



Gamma Q-Q plot
Arsenic, MW-12 (mg/L)

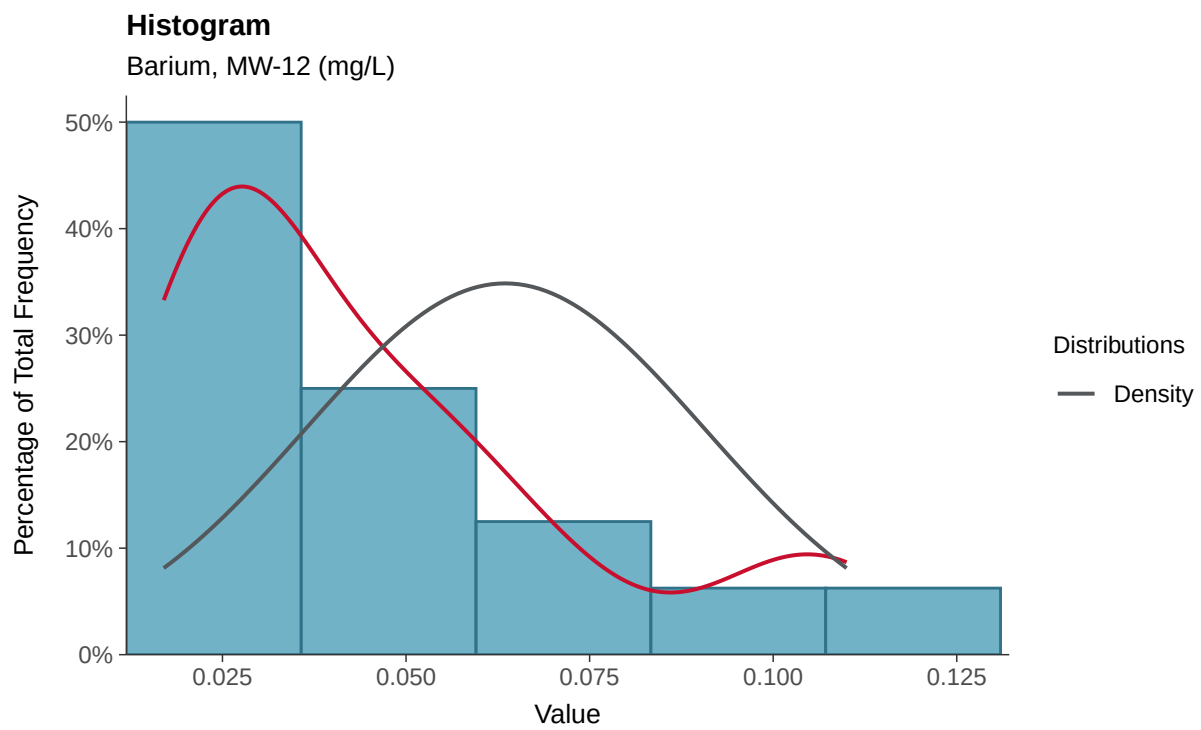
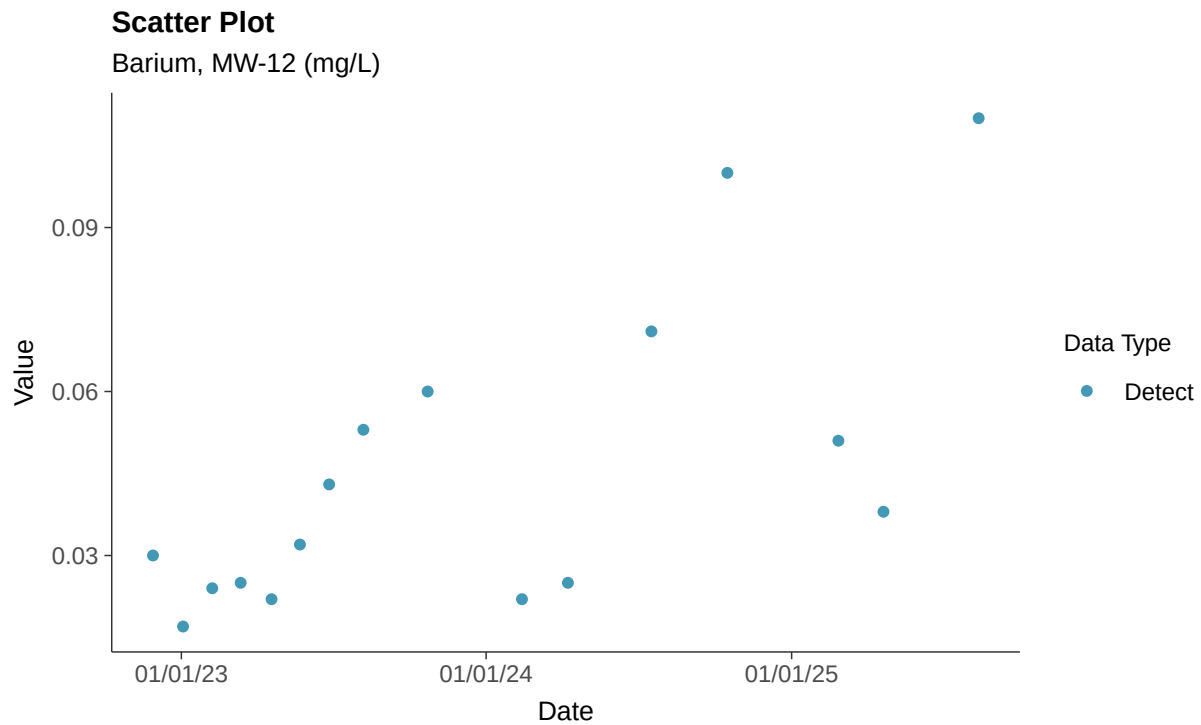


Trend Regression: Lognormal MLE
Arsenic, MW-12 (mg/L)



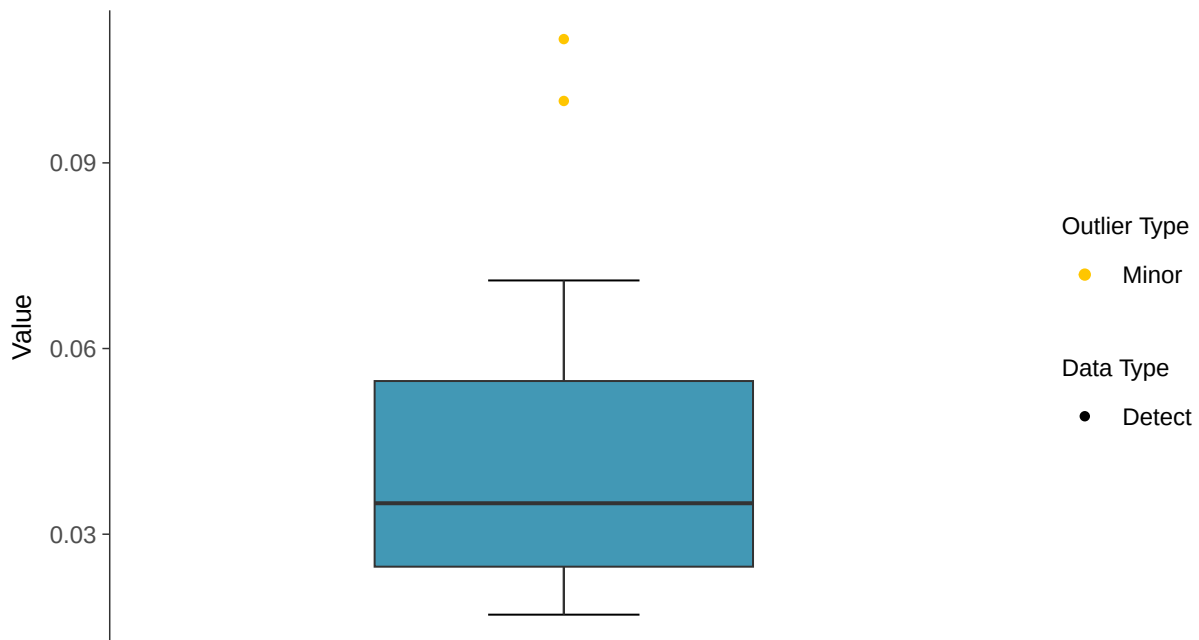
Appendix IV: Barium, MW-12

ID: 22_2_4_103



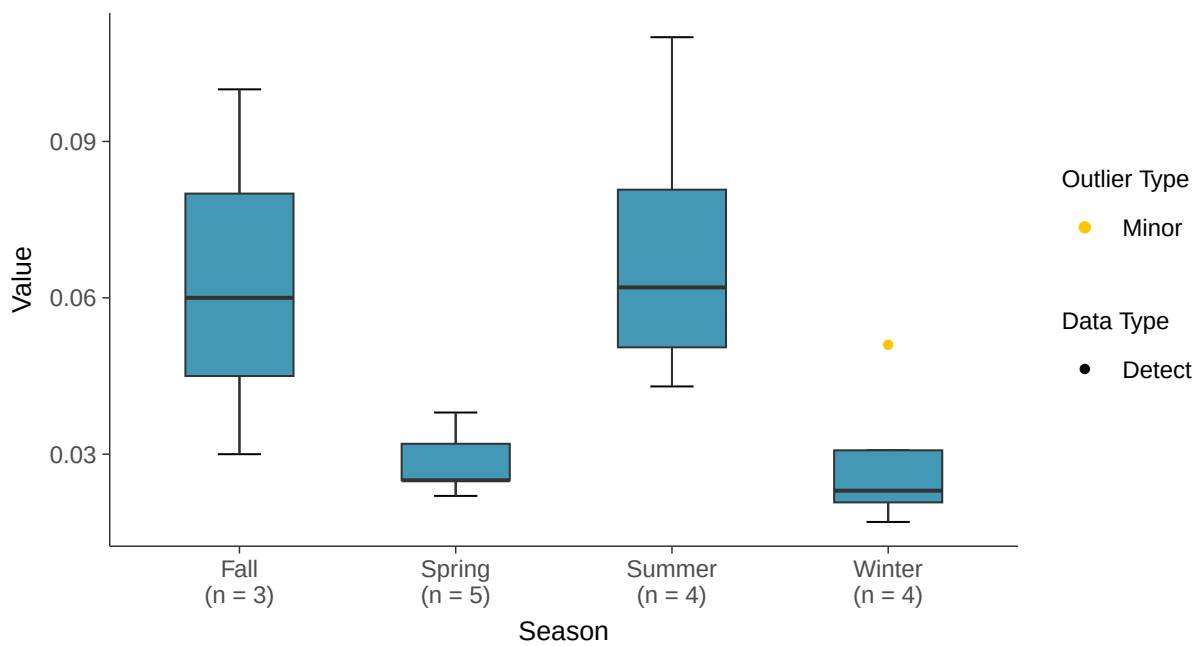
Boxplot

Barium, MW-12 (mg/L)



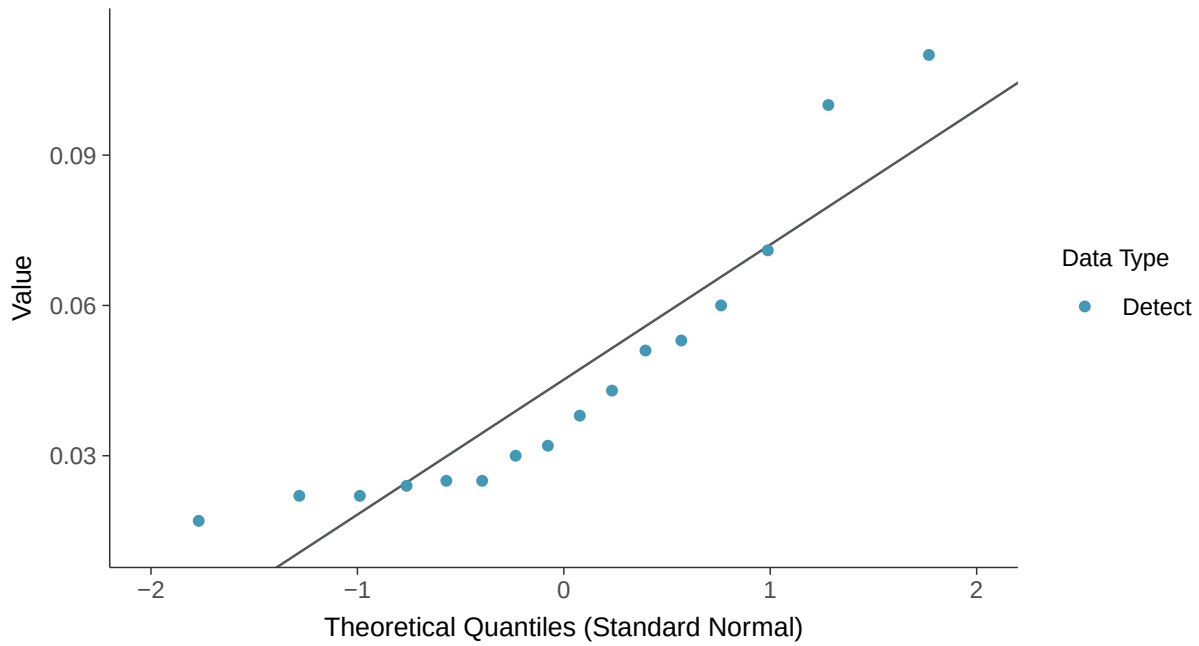
Boxplot by Season

Barium, MW-12 (mg/L)



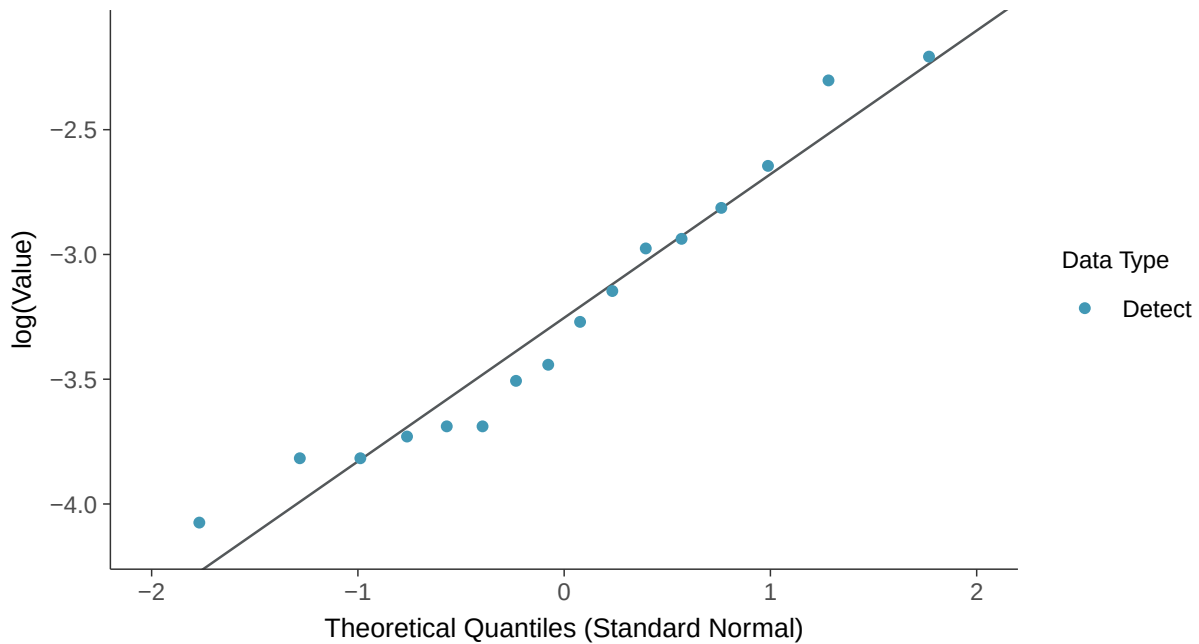
Normal Q-Q plot

Barium, MW-12 (mg/L)



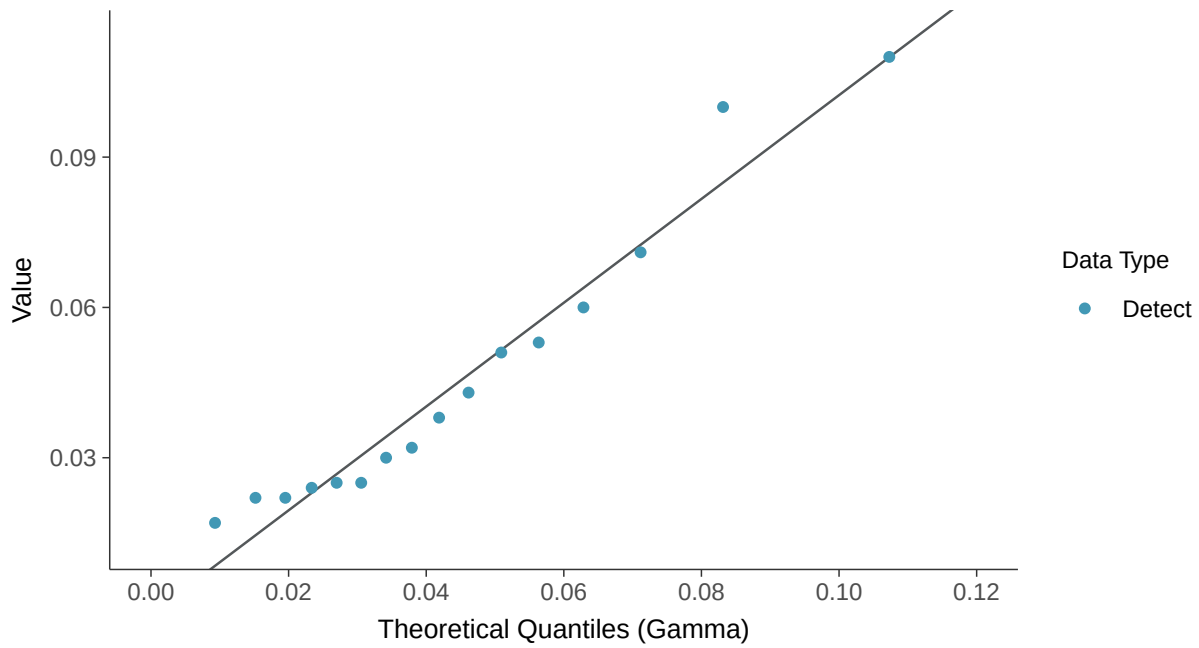
Lognormal Q-Q plot

Barium, MW-12 (mg/L)



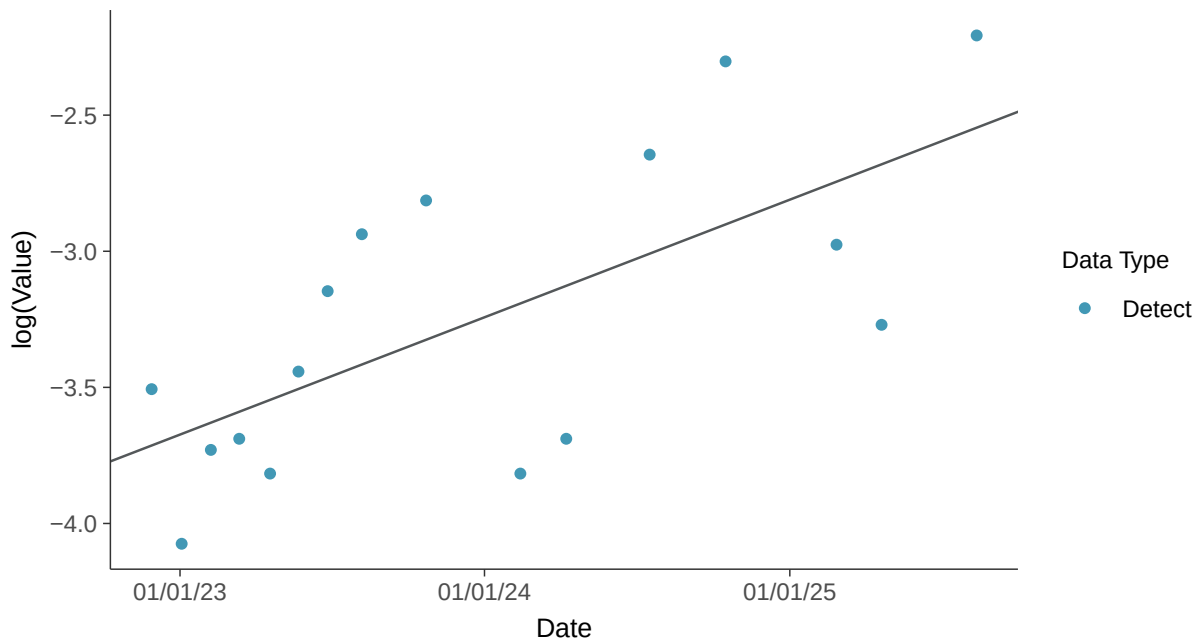
Gamma Q-Q plot

Barium, MW-12 (mg/L)



Trend Regression: Lognormal MLE

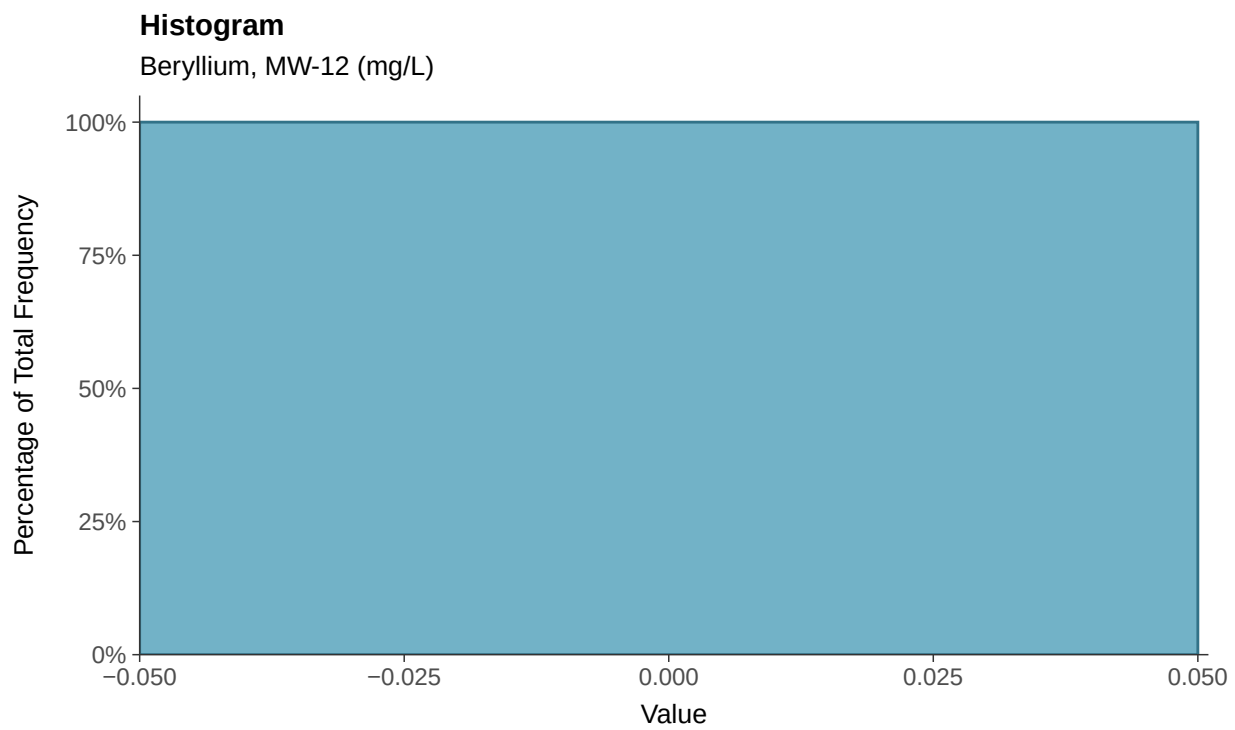
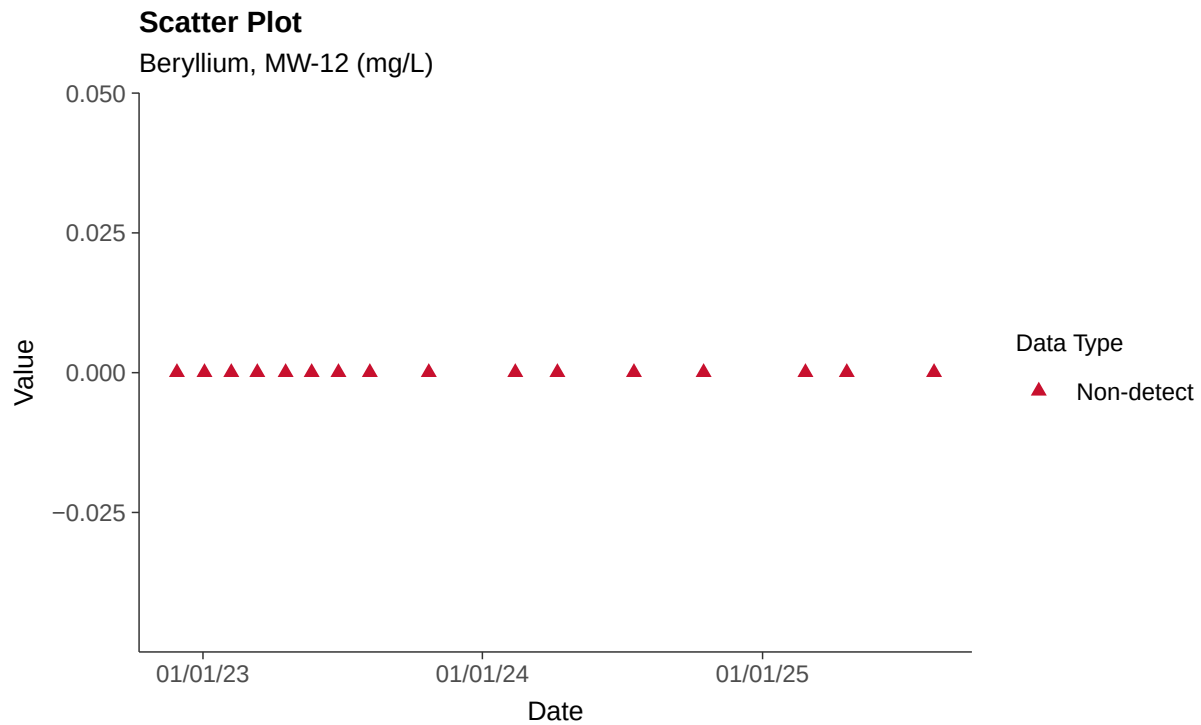
Barium, MW-12 (mg/L)





Appendix IV: Beryllium, MW-12

ID: 22_2_4_104





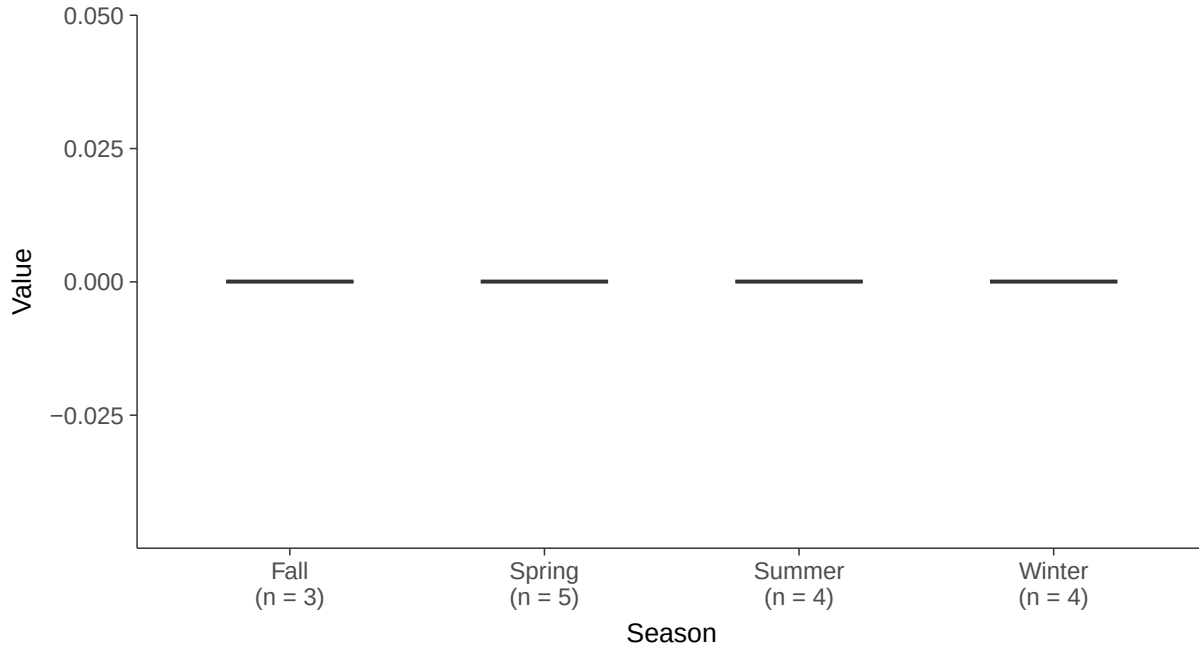
Boxplot

Beryllium, MW-12 (mg/L)



Boxplot by Season

Beryllium, MW-12 (mg/L)

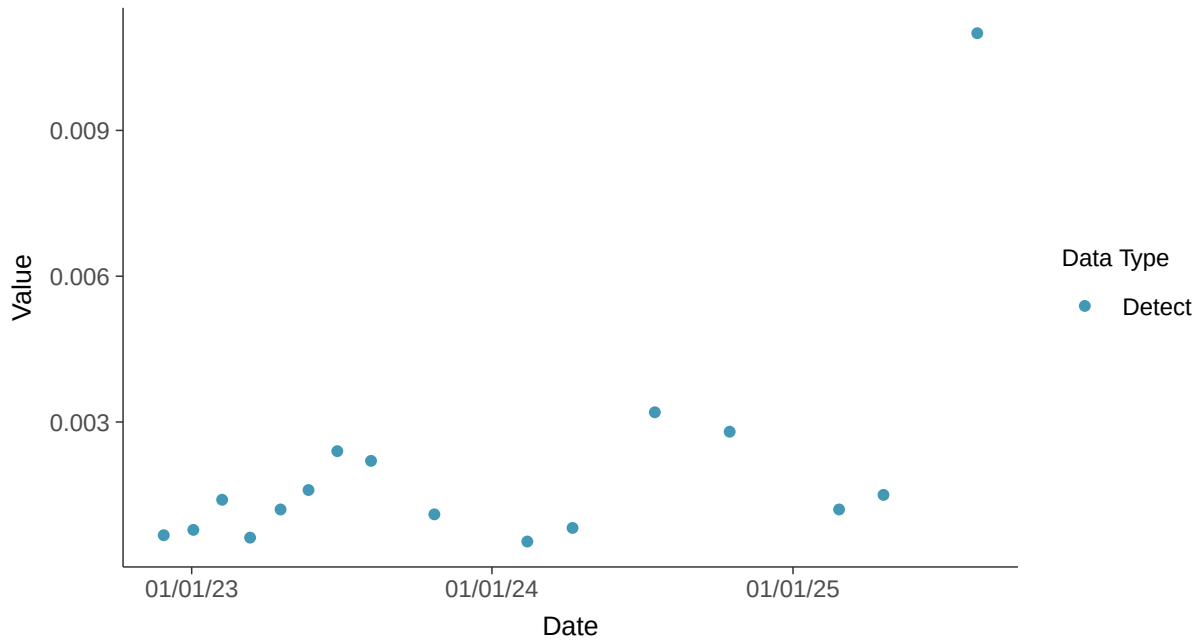


Appendix IV: Cadmium, MW-12

ID: 22_2_4_106

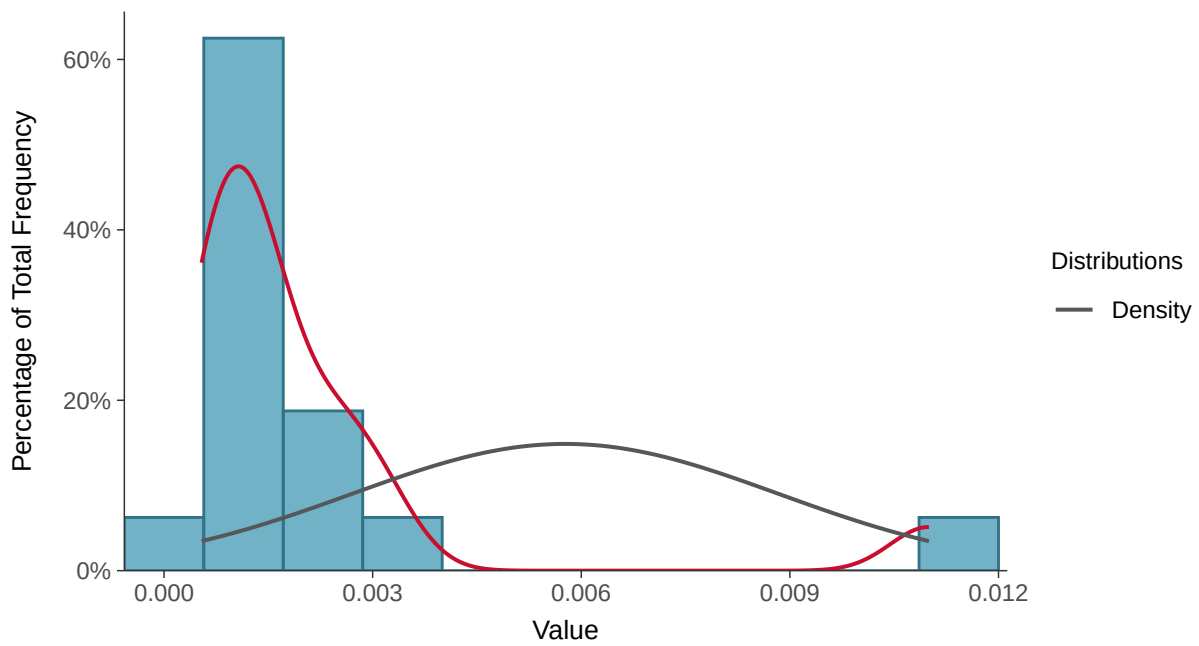
Scatter Plot

Cadmium, MW-12 (mg/L)



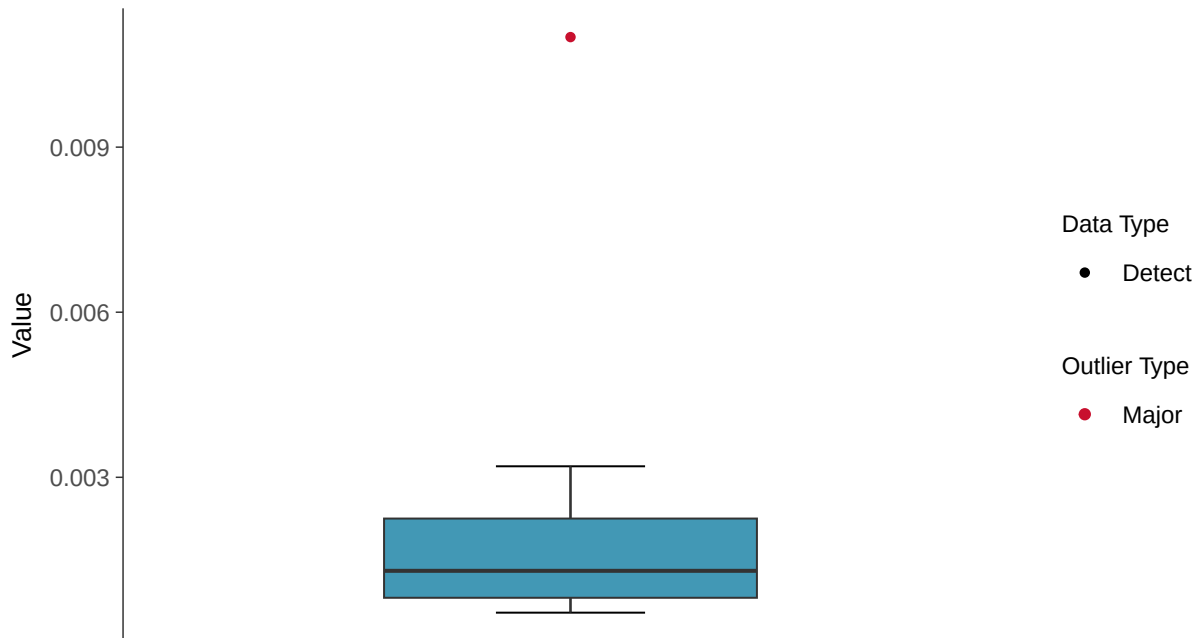
Histogram

Cadmium, MW-12 (mg/L)



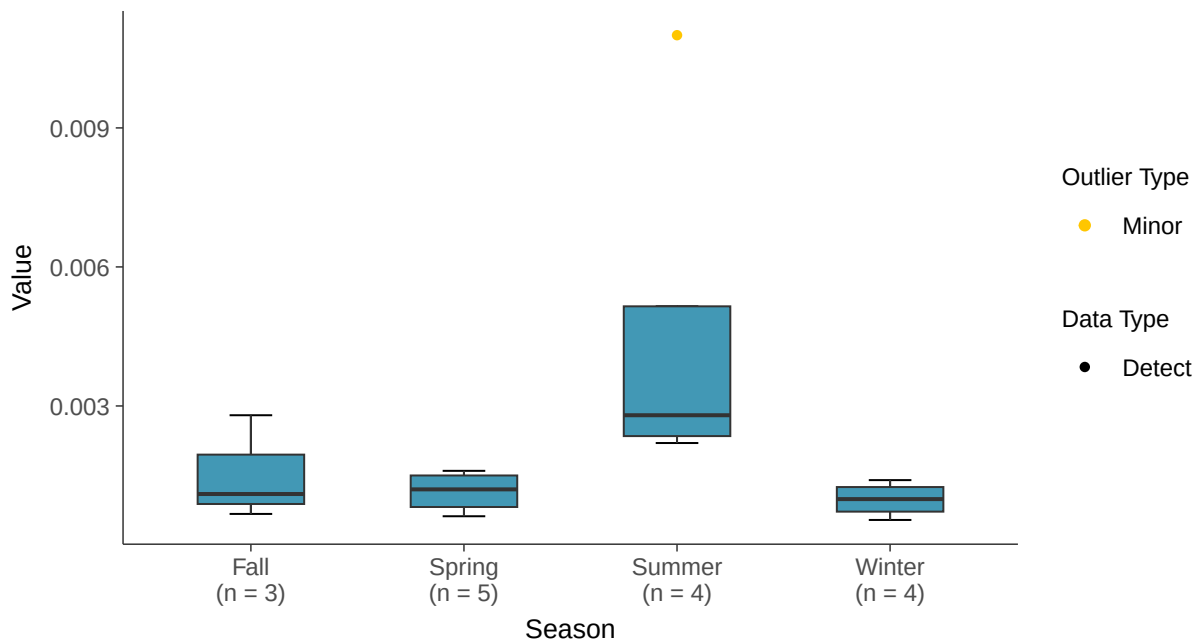
Boxplot

Cadmium, MW-12 (mg/L)



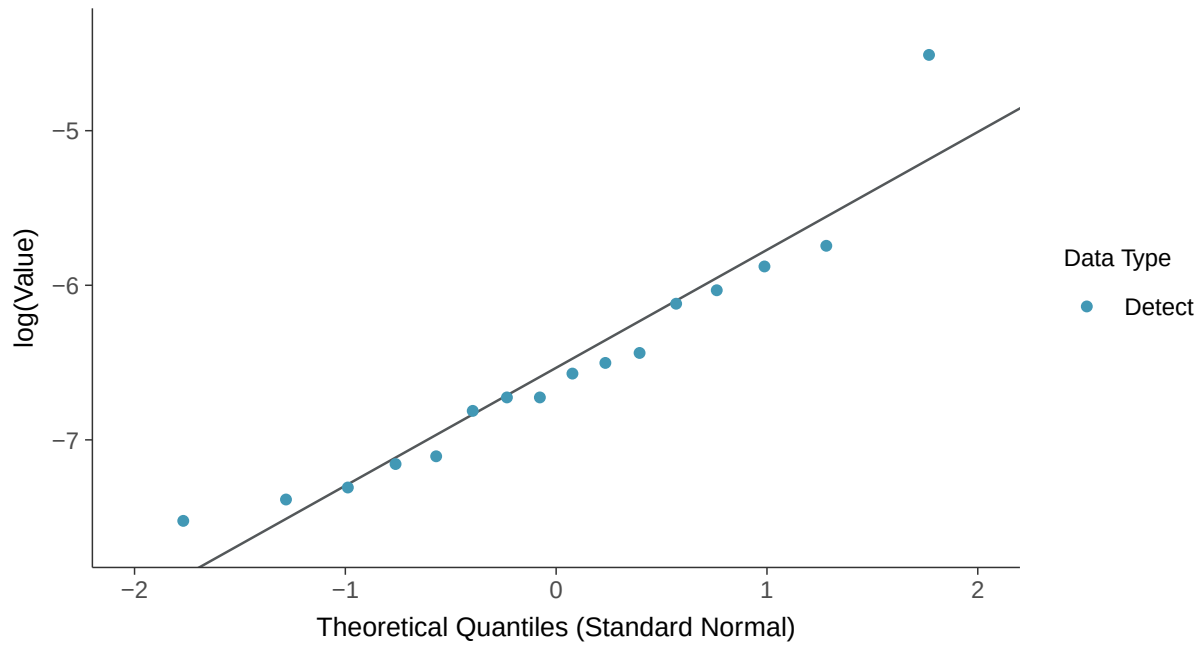
Boxplot by Season

Cadmium, MW-12 (mg/L)



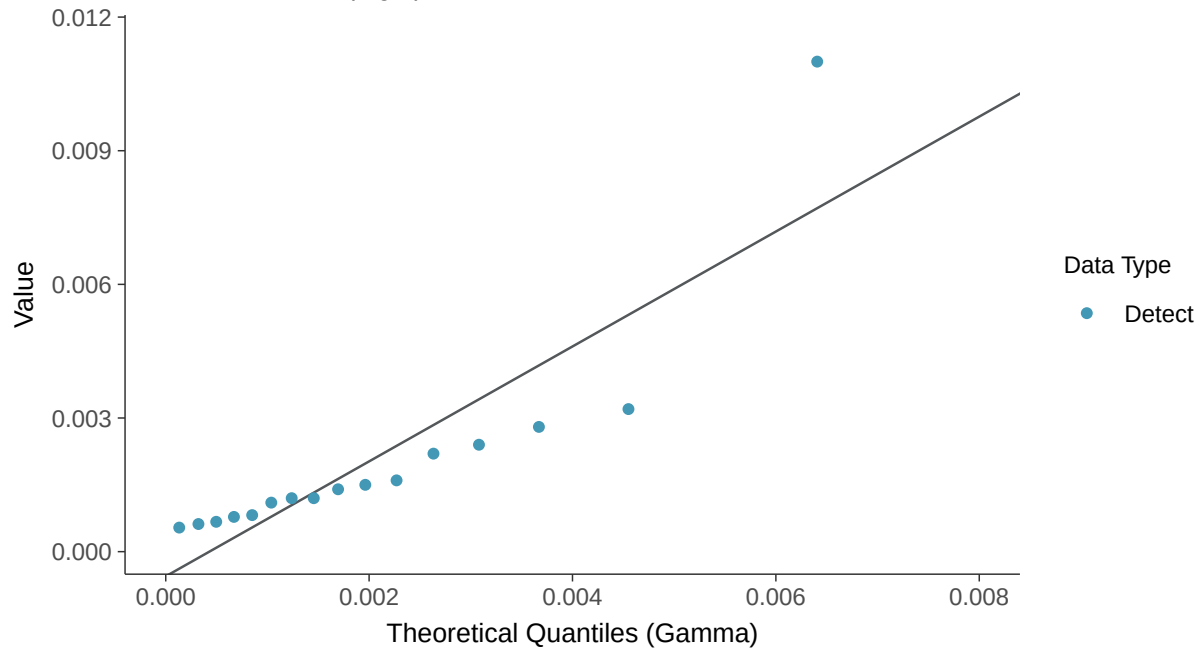
Lognormal Q-Q plot

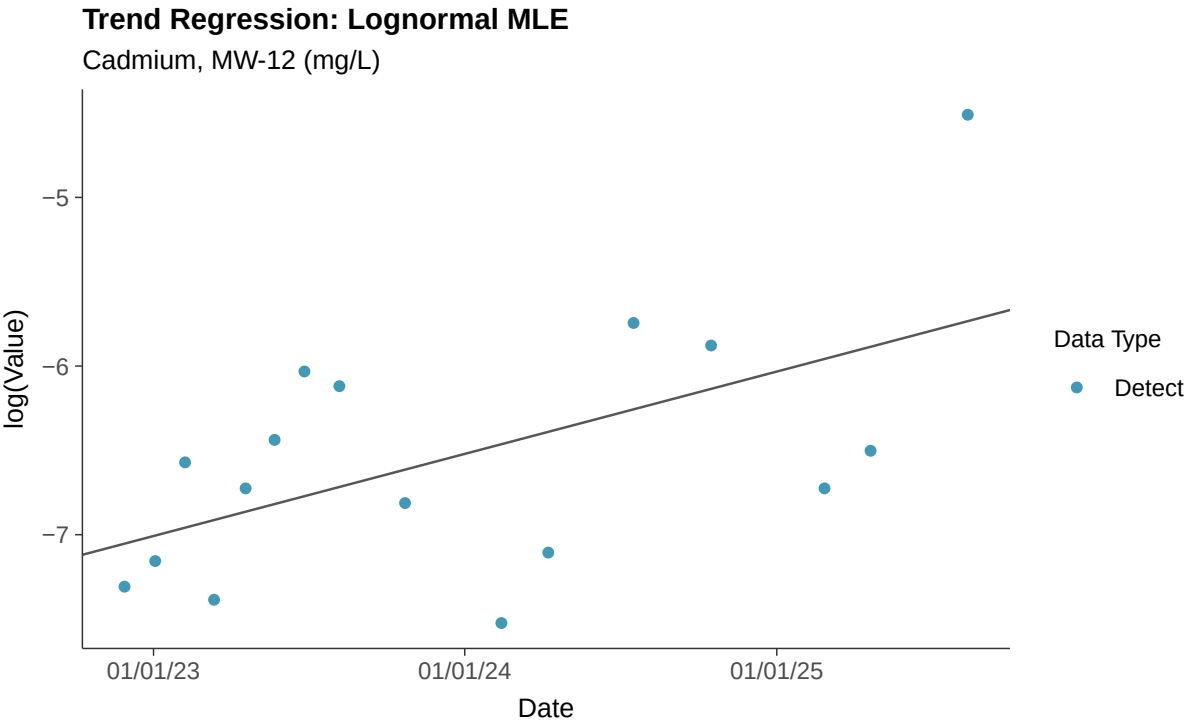
Cadmium, MW-12 (mg/L)



Gamma Q-Q plot

Cadmium, MW-12 (mg/L)



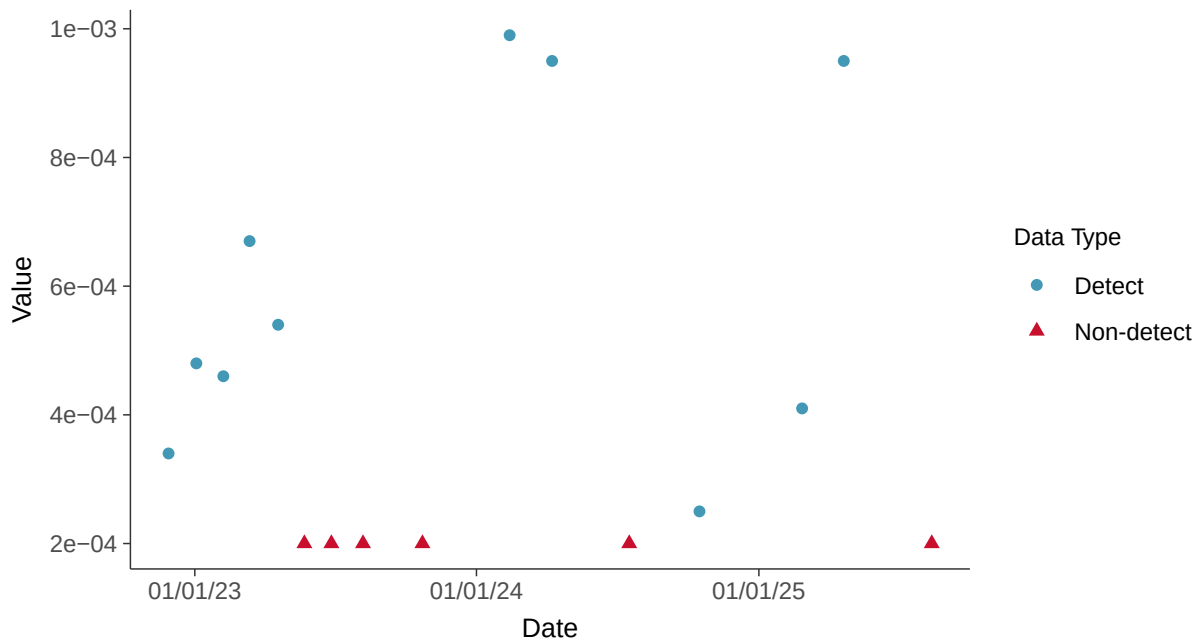


Appendix IV: Chromium, Total, MW-12

ID: 22_2_4_109

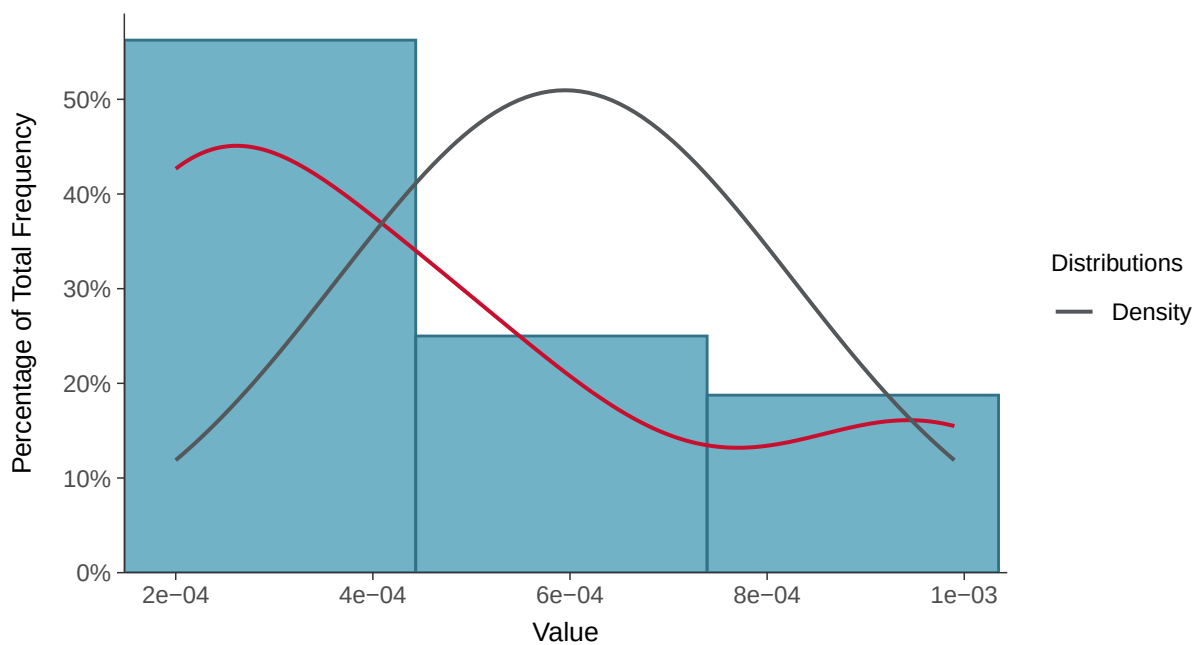
Scatter Plot

Chromium, Total, MW-12 (mg/L)



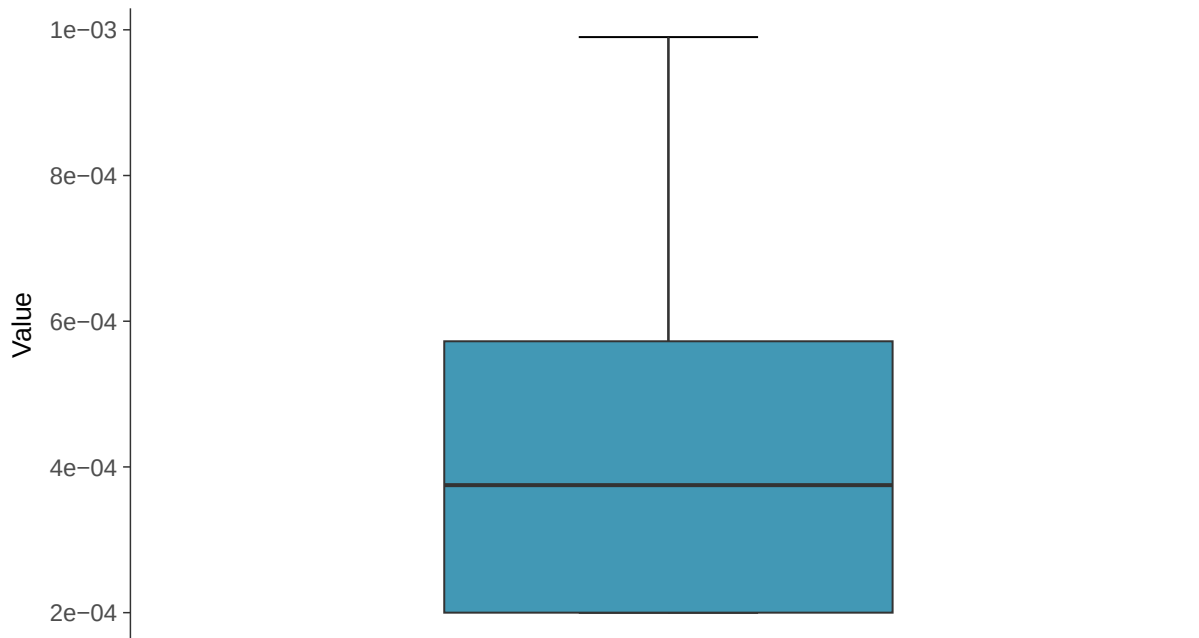
Histogram

Chromium, Total, MW-12 (mg/L)



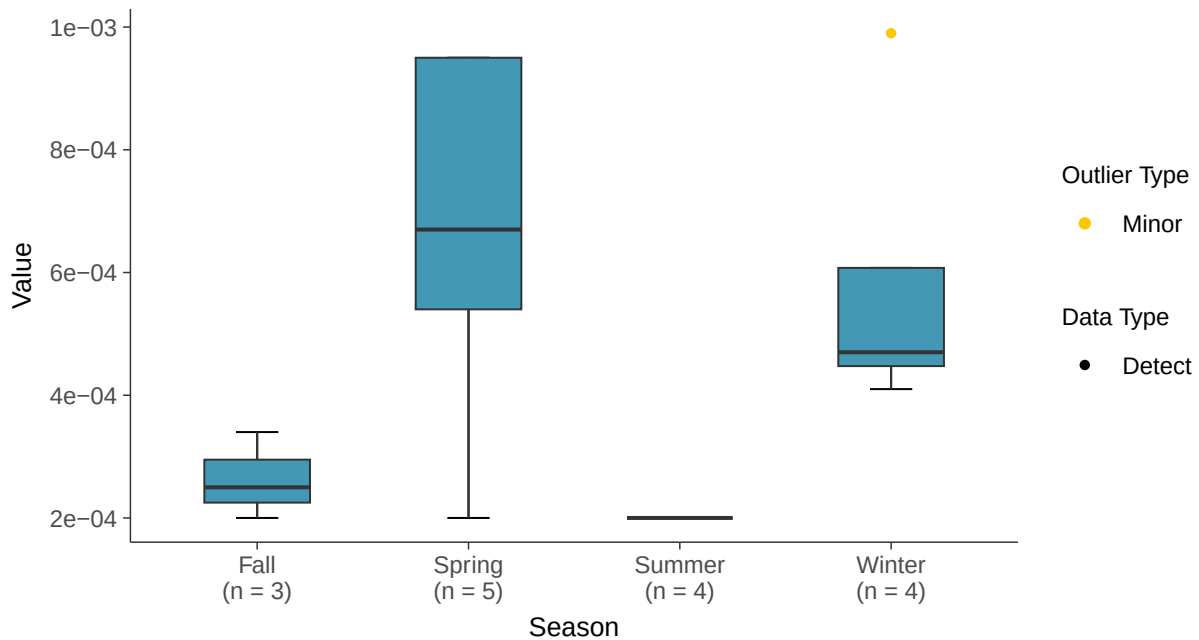
Boxplot

Chromium, Total, MW-12 (mg/L)



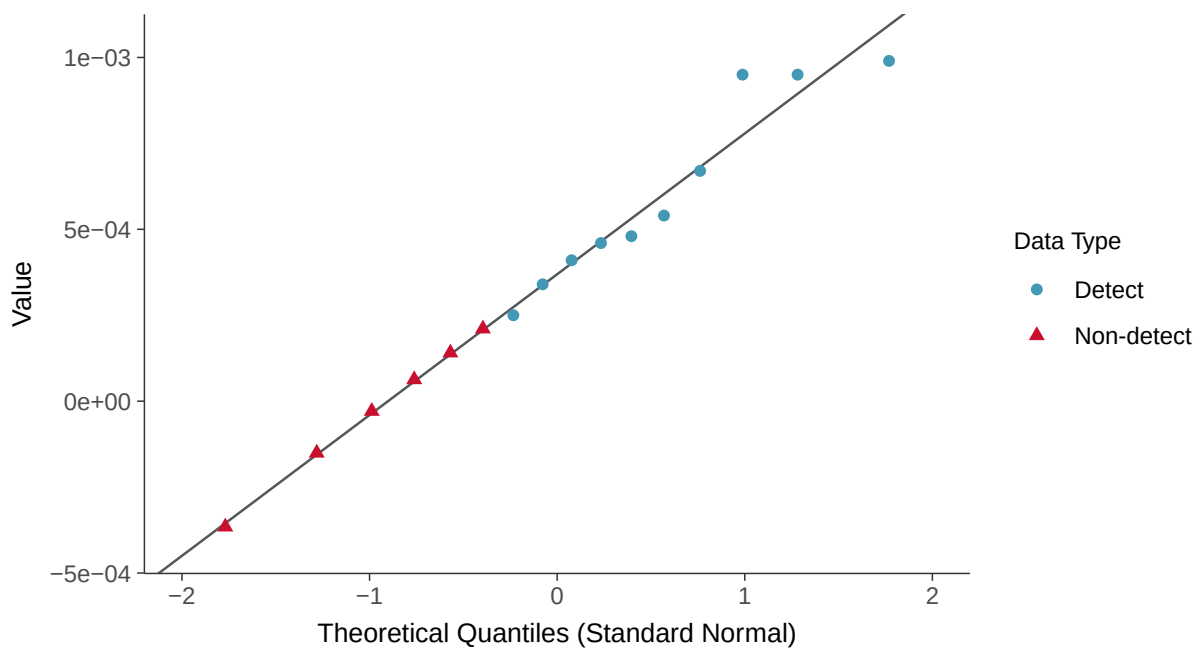
Boxplot by Season

Chromium, Total, MW-12 (mg/L)



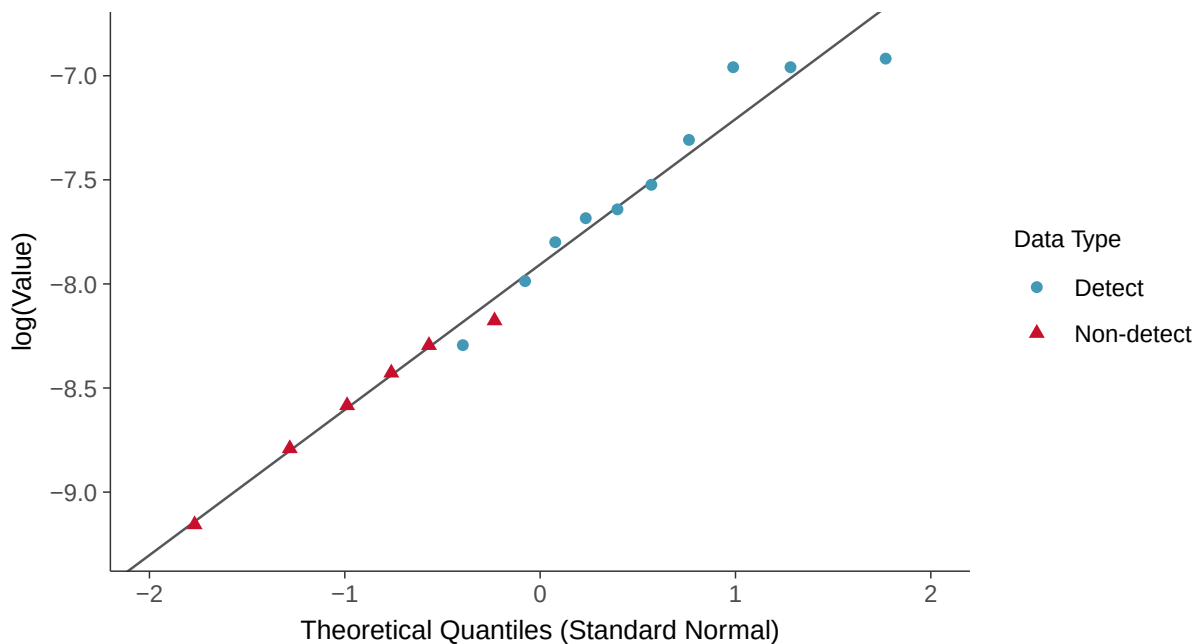
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



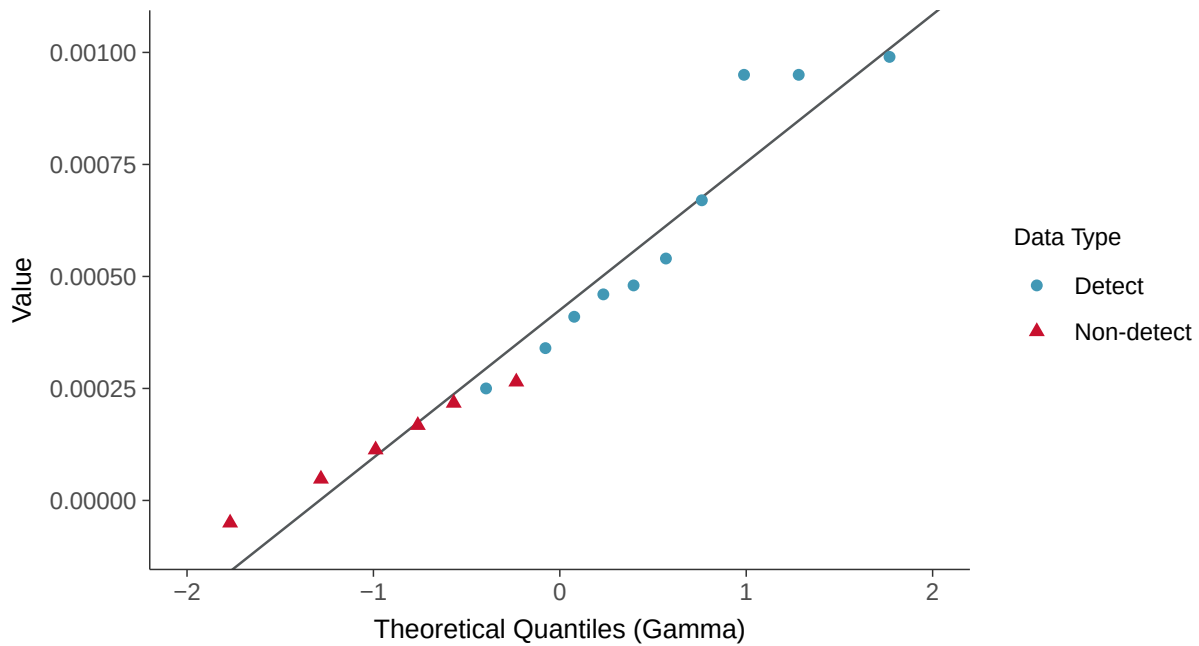
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



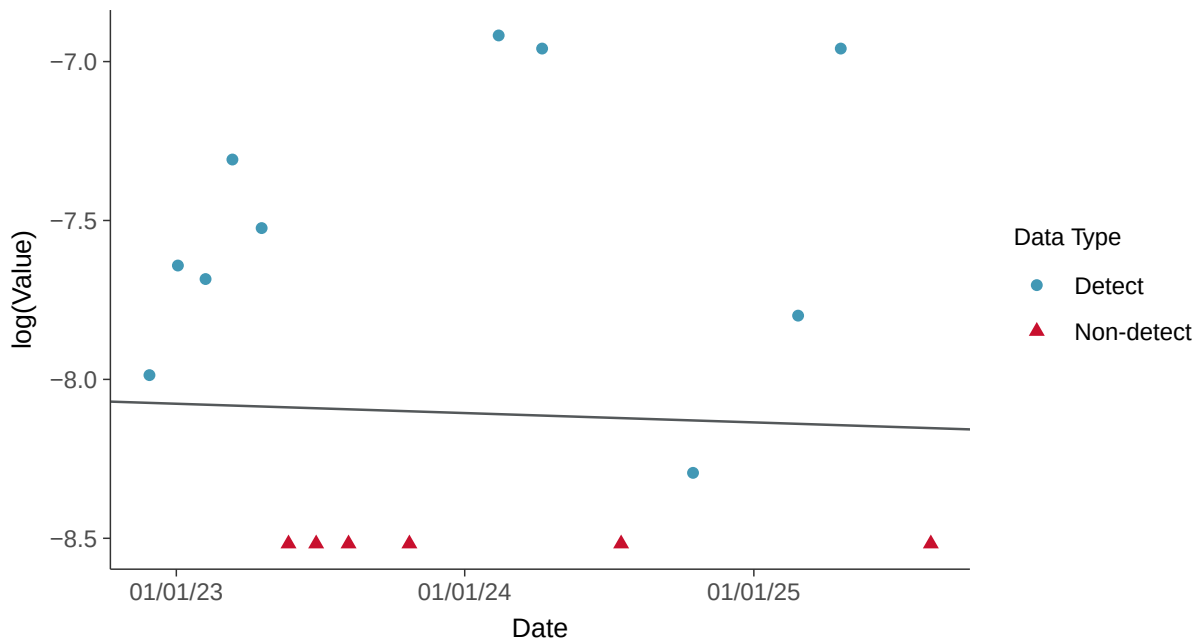
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



Trend Regression: Lognormal MLE

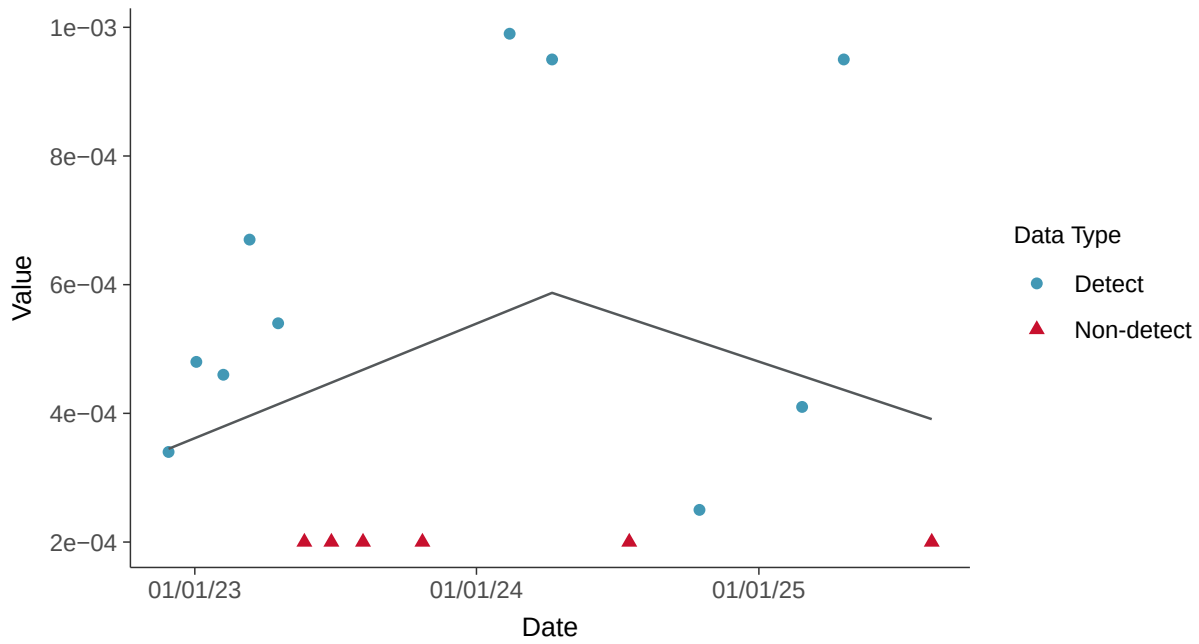
Chromium, Total, MW-12 (mg/L)





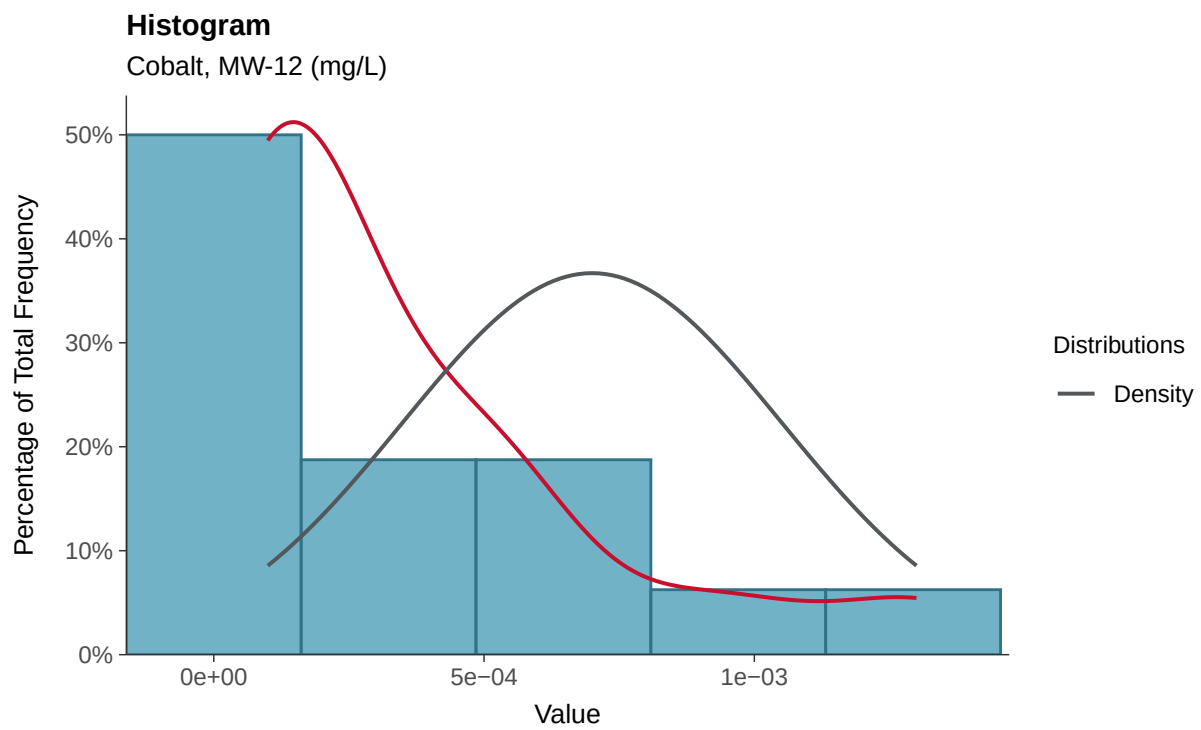
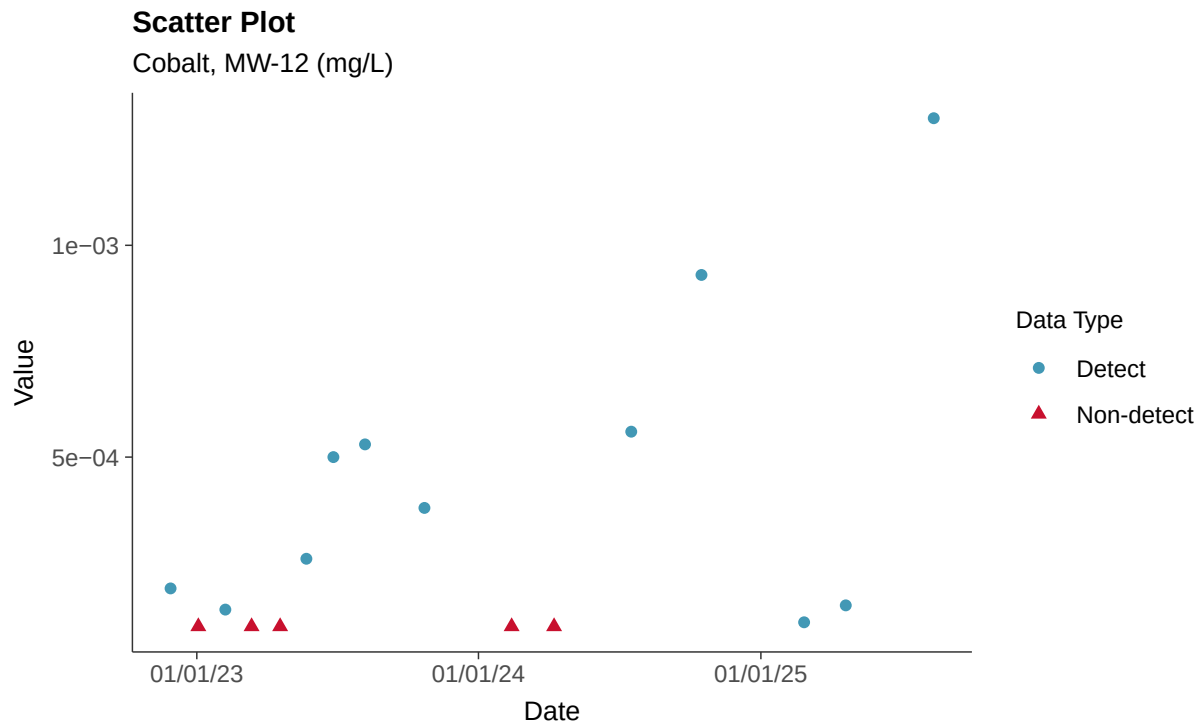
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-12 (mg/L)



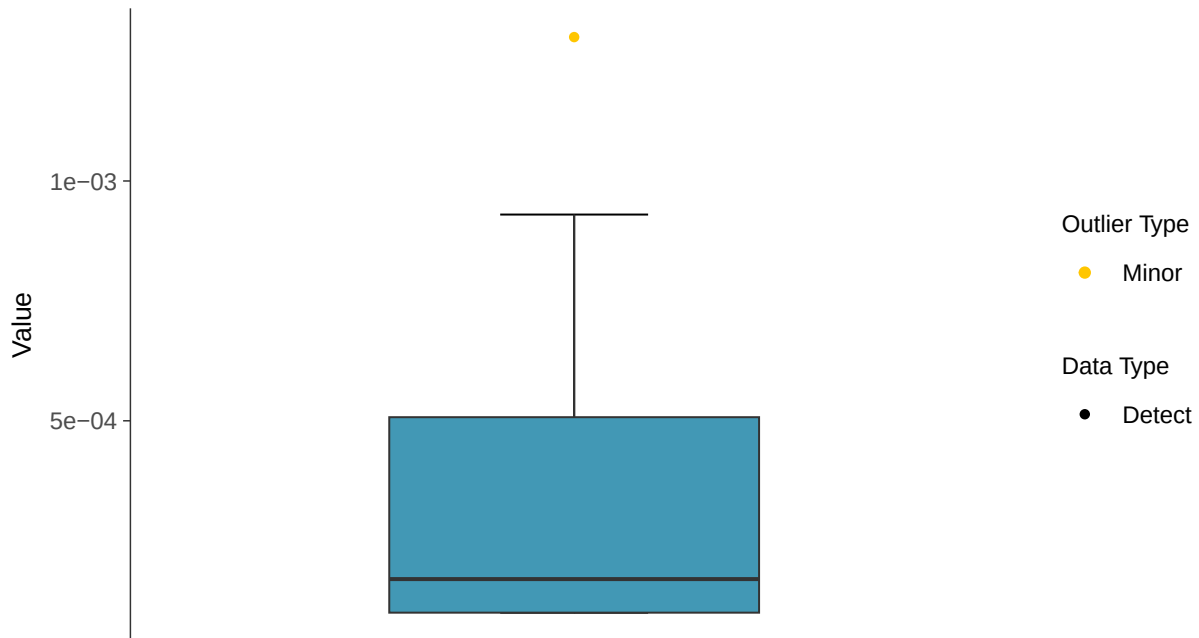
Appendix IV: Cobalt, MW-12

ID: 22_2_4_110



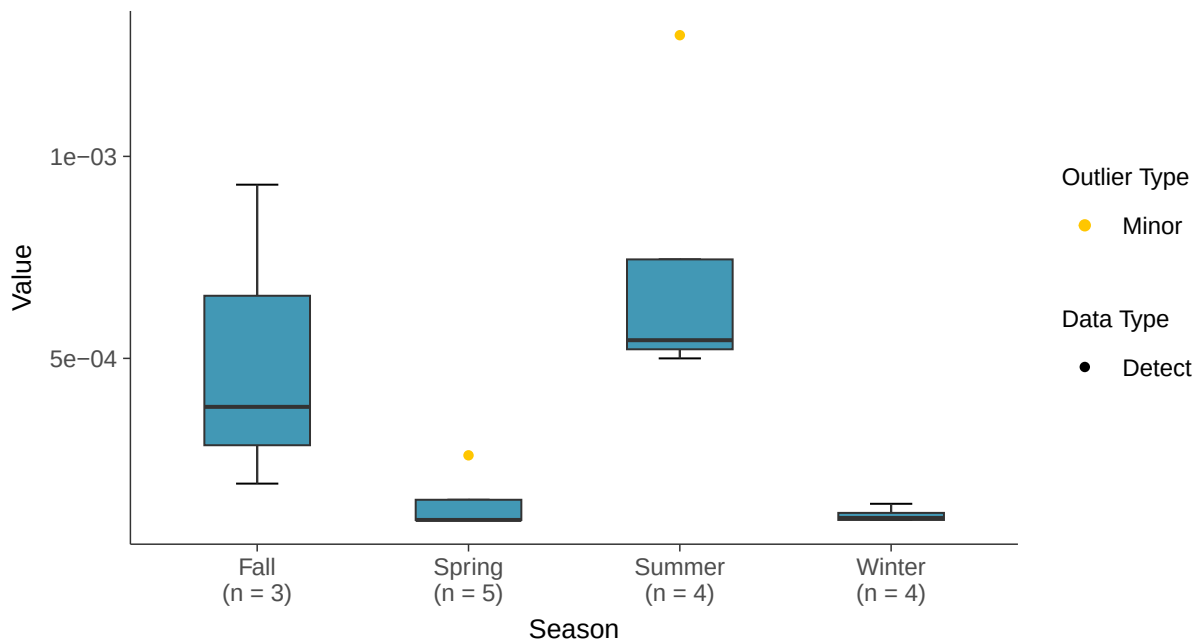
Boxplot

Cobalt, MW-12 (mg/L)



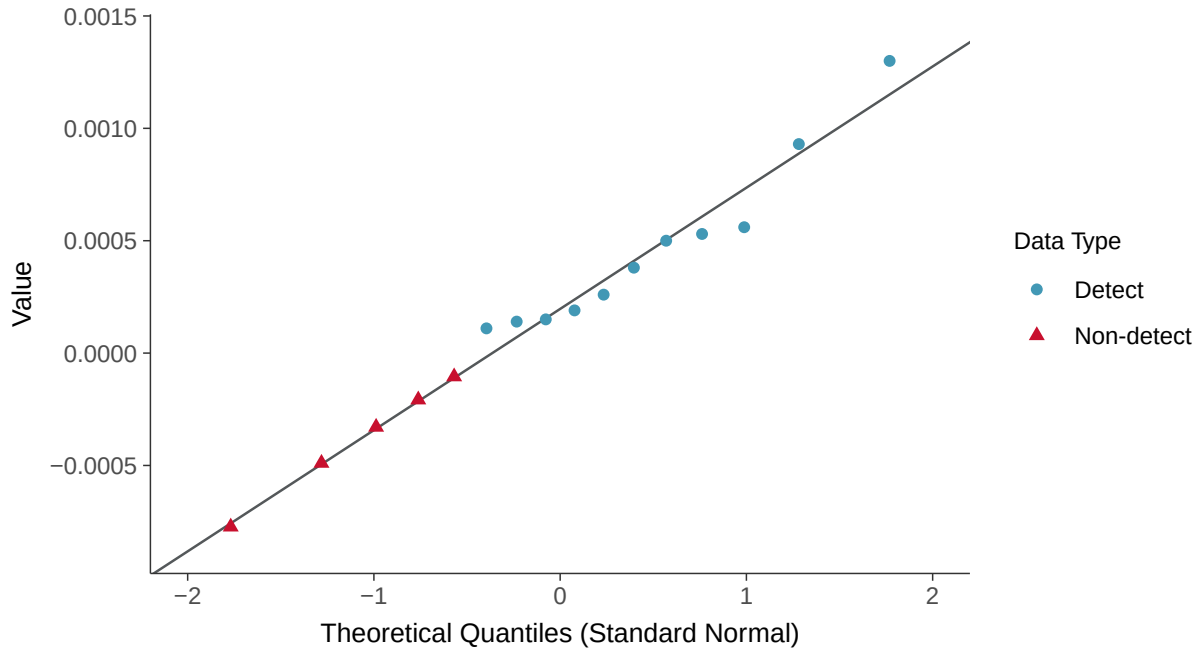
Boxplot by Season

Cobalt, MW-12 (mg/L)



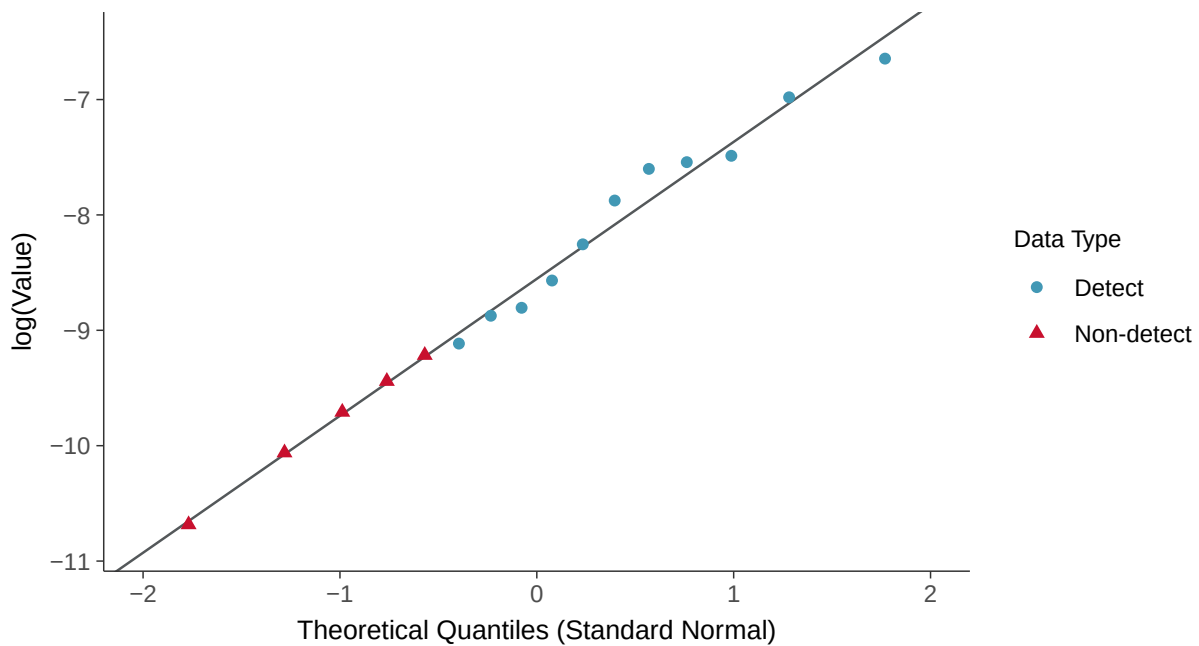
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



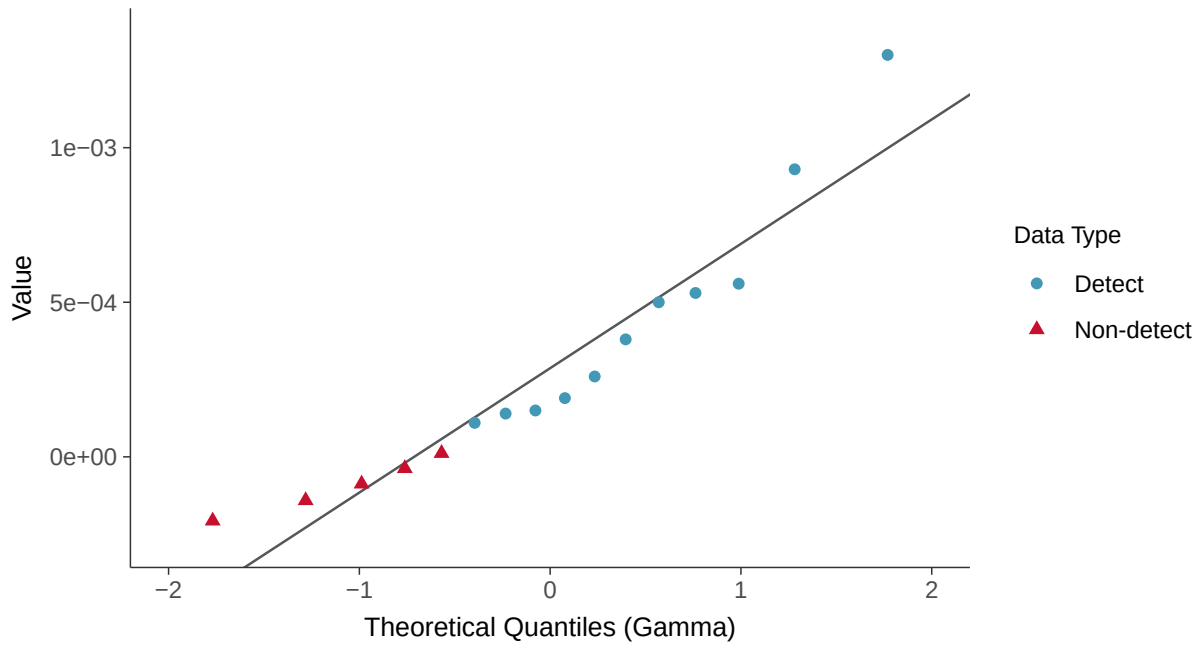
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



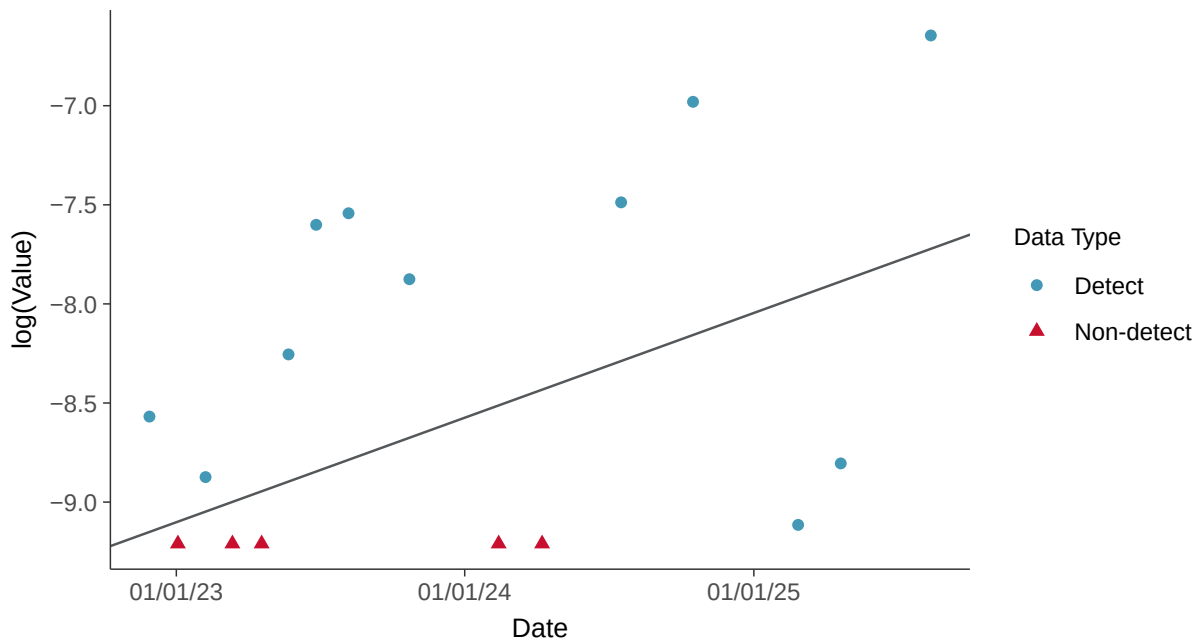
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



Trend Regression: Lognormal MLE

Cobalt, MW-12 (mg/L)

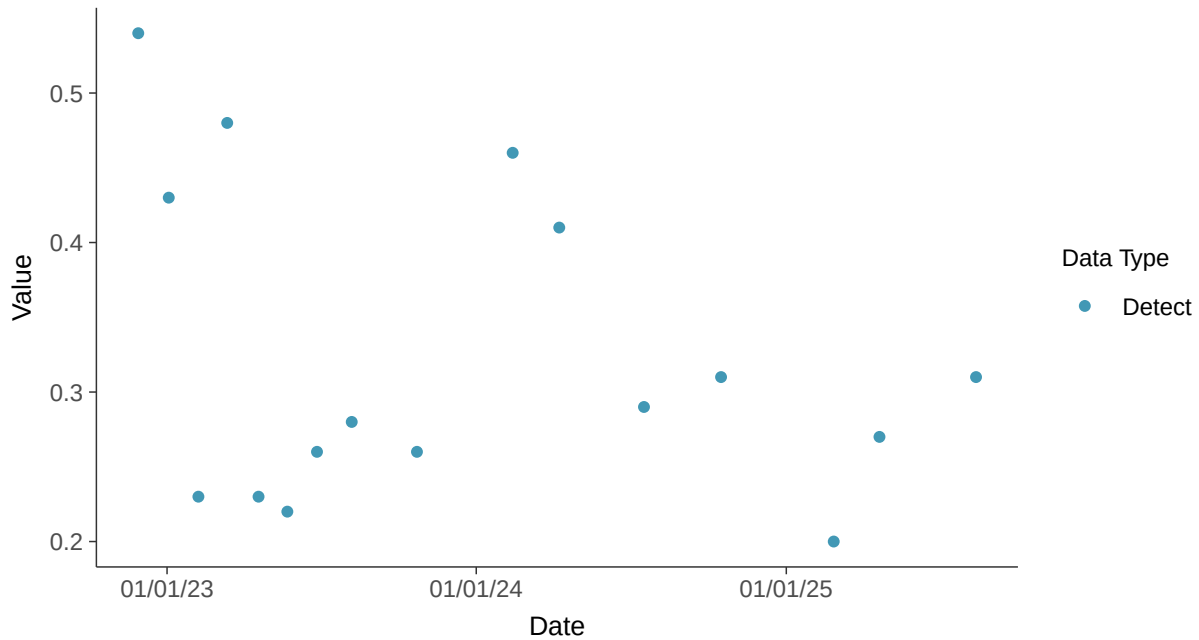


Appendix IV: Fluoride (App IV), MW-12

ID: 22_2_4_113

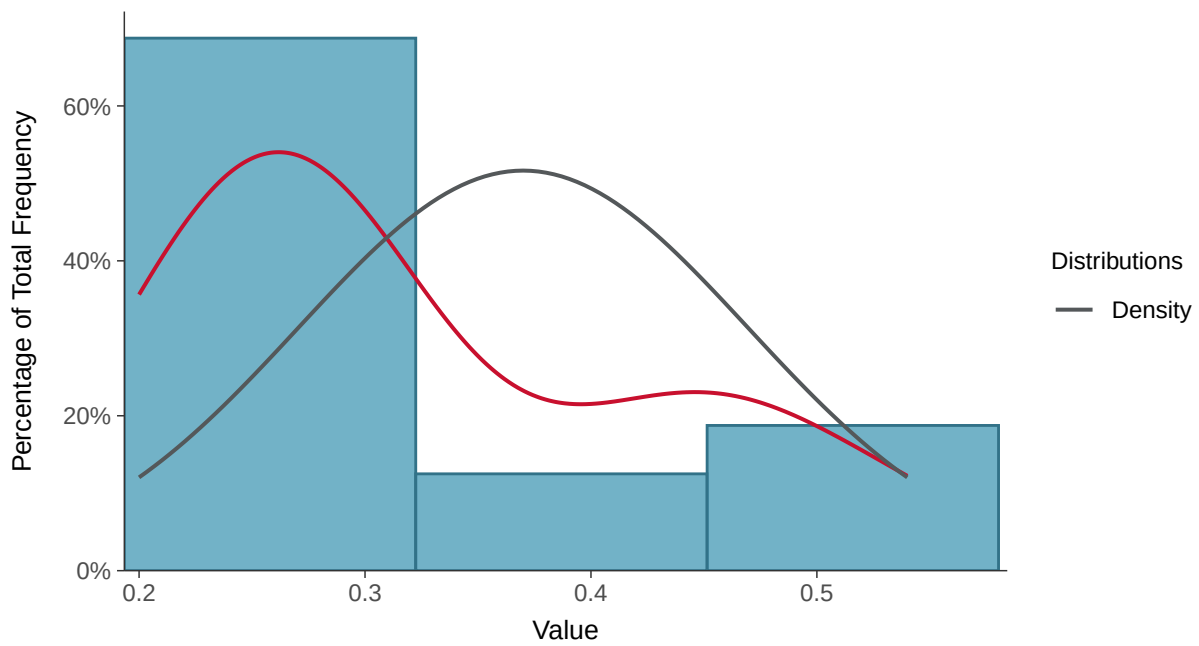
Scatter Plot

Fluoride (App IV), MW-12 (mg/L)



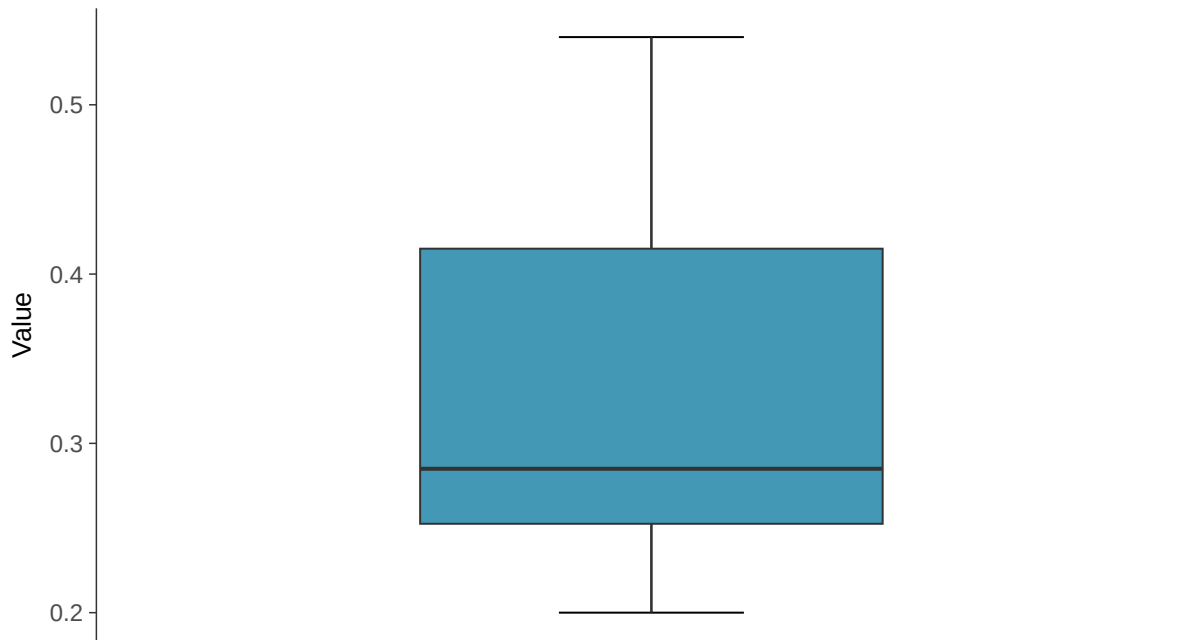
Histogram

Fluoride (App IV), MW-12 (mg/L)



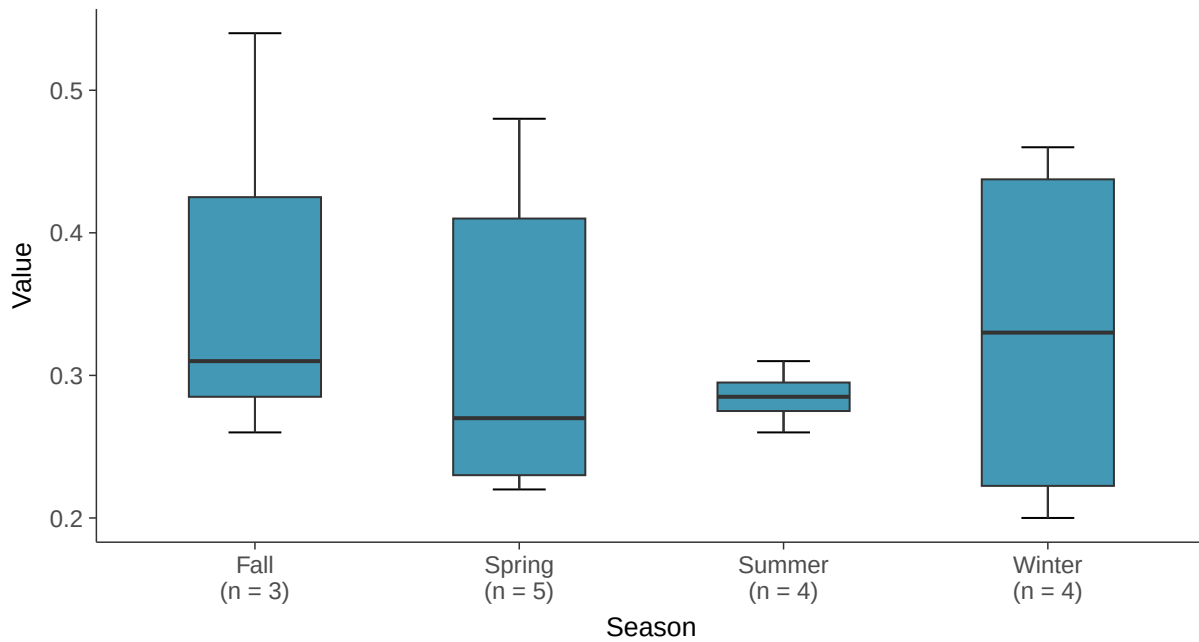
Boxplot

Fluoride (App IV), MW-12 (mg/L)



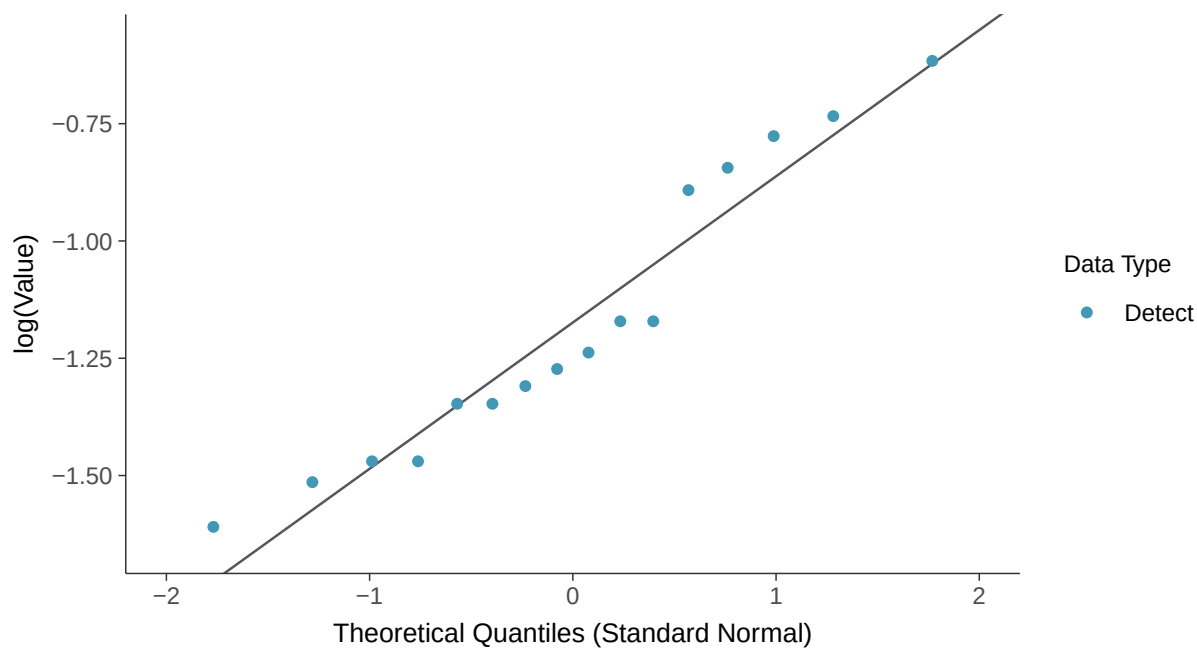
Boxplot by Season

Fluoride (App IV), MW-12 (mg/L)



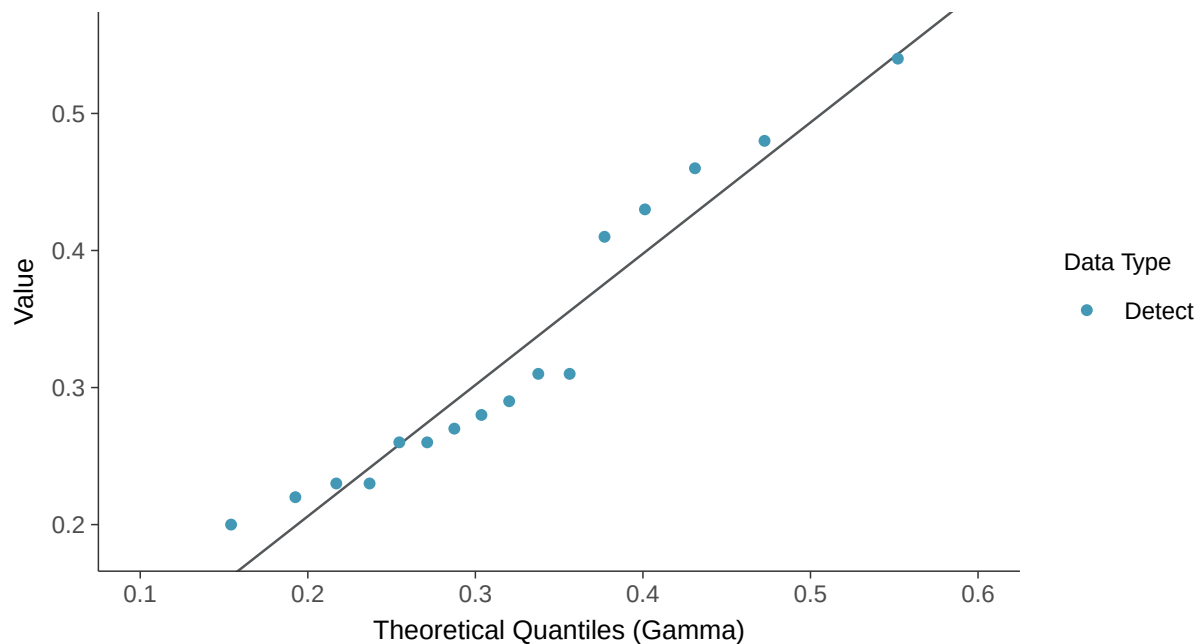
Lognormal Q-Q plot

Fluoride (App IV), MW-12 (mg/L)



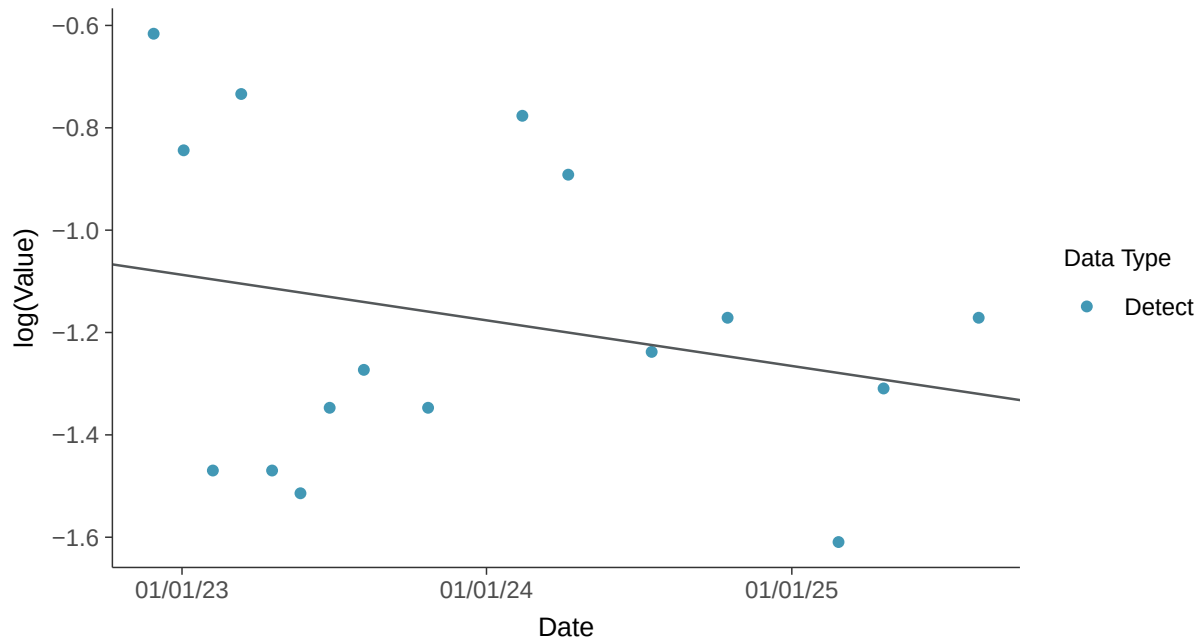
Gamma Q-Q plot

Fluoride (App IV), MW-12 (mg/L)



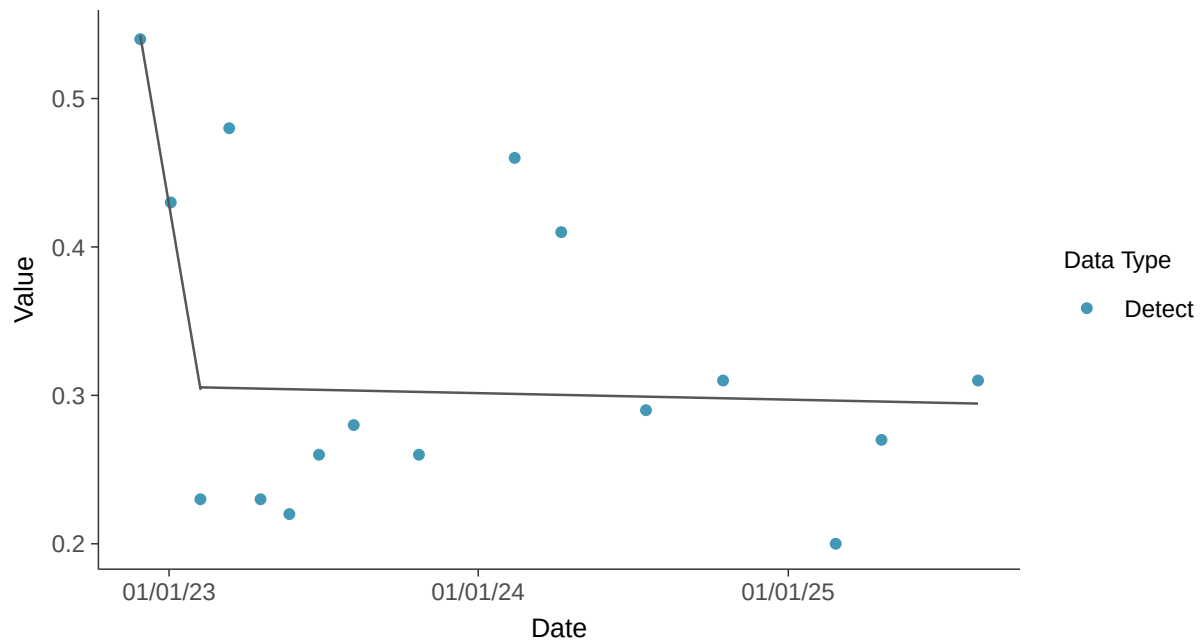
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-12 (mg/L)



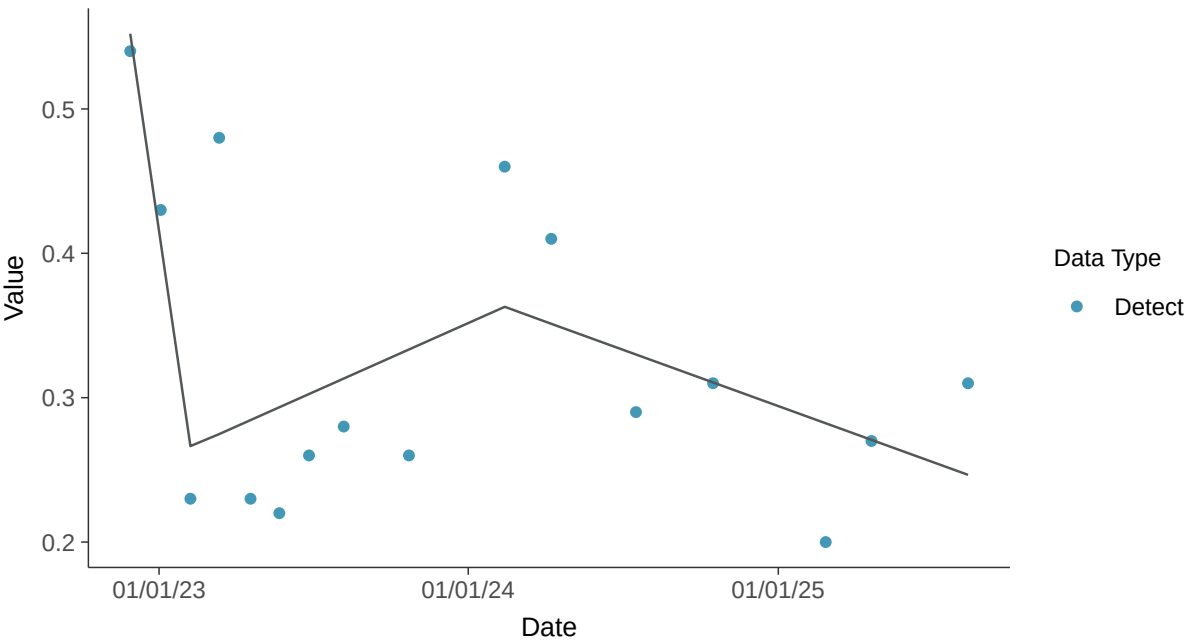
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-12 (mg/L)



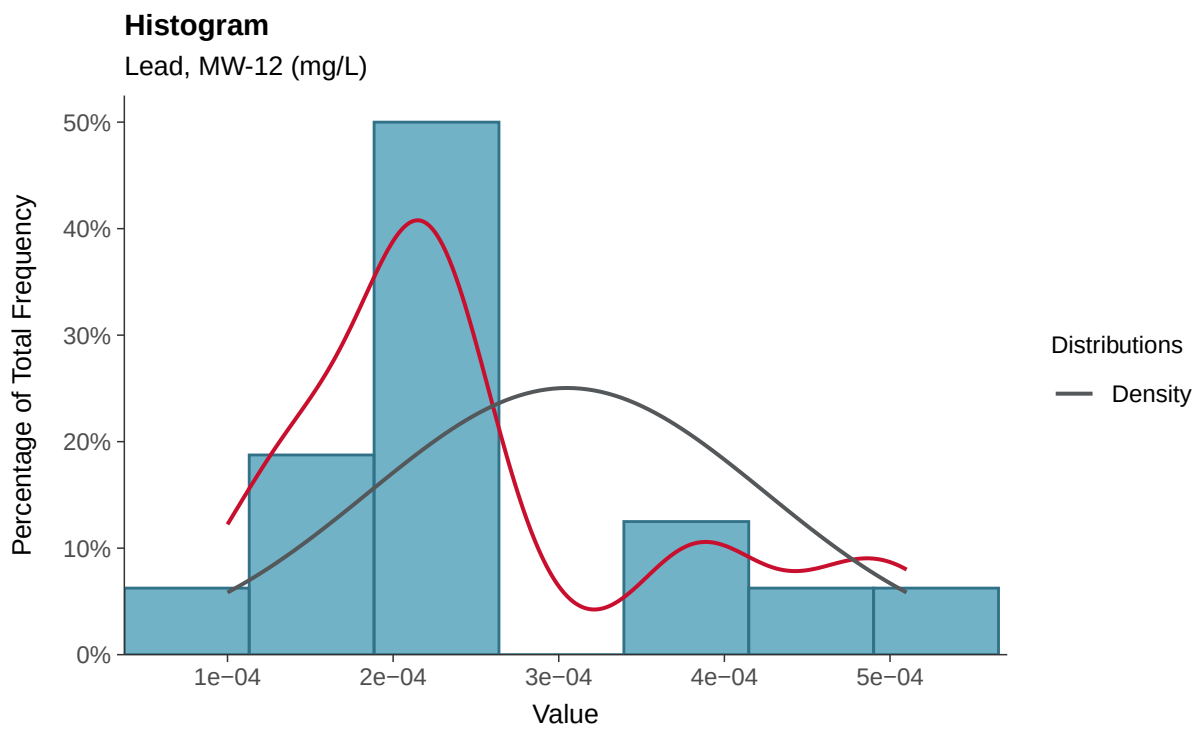
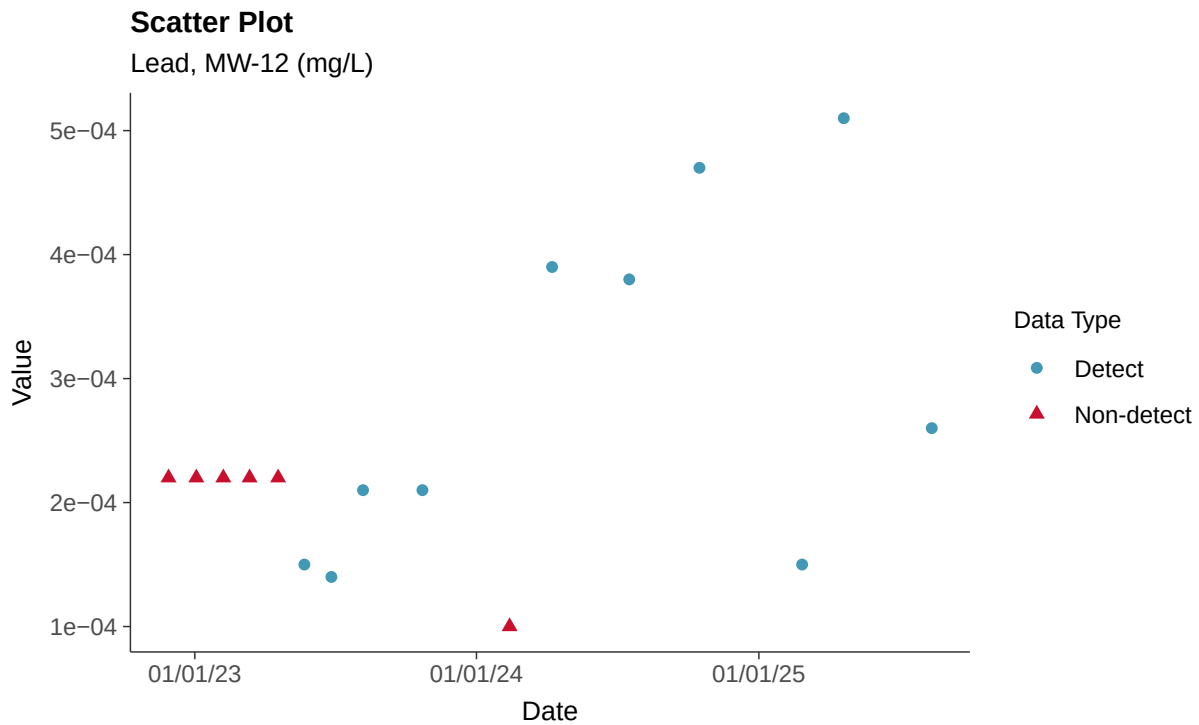


Trend Regression: Piecewise Linear-Linear-Linear
Fluoride (App IV), MW-12 (mg/L)



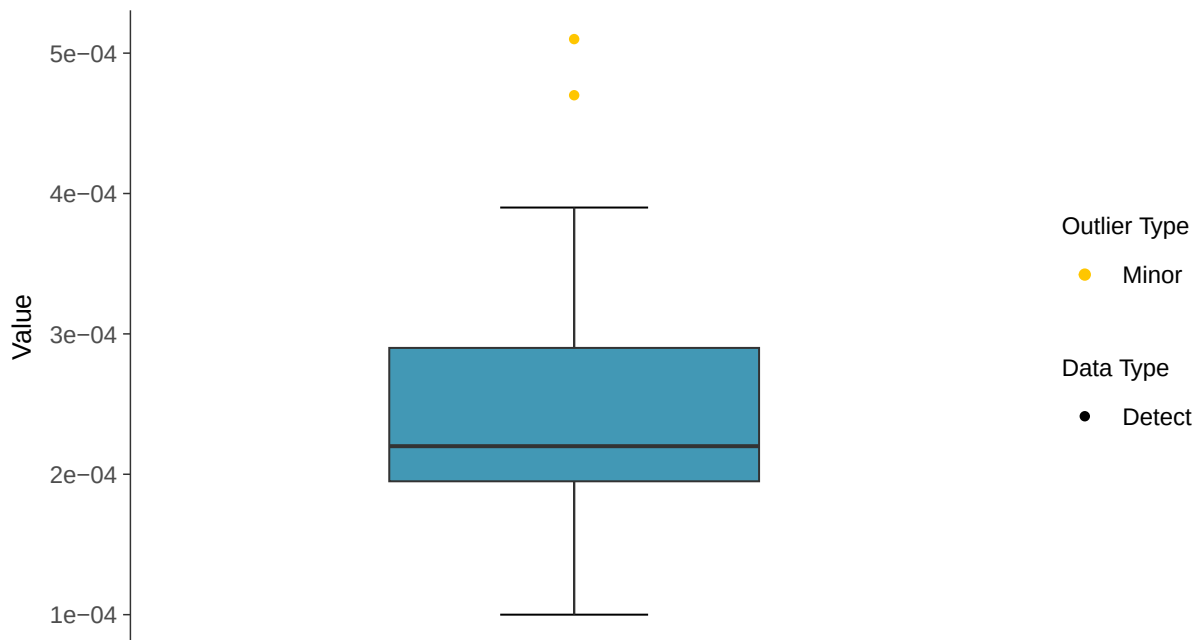
Appendix IV: Lead, MW-12

ID: 22_2_4_115



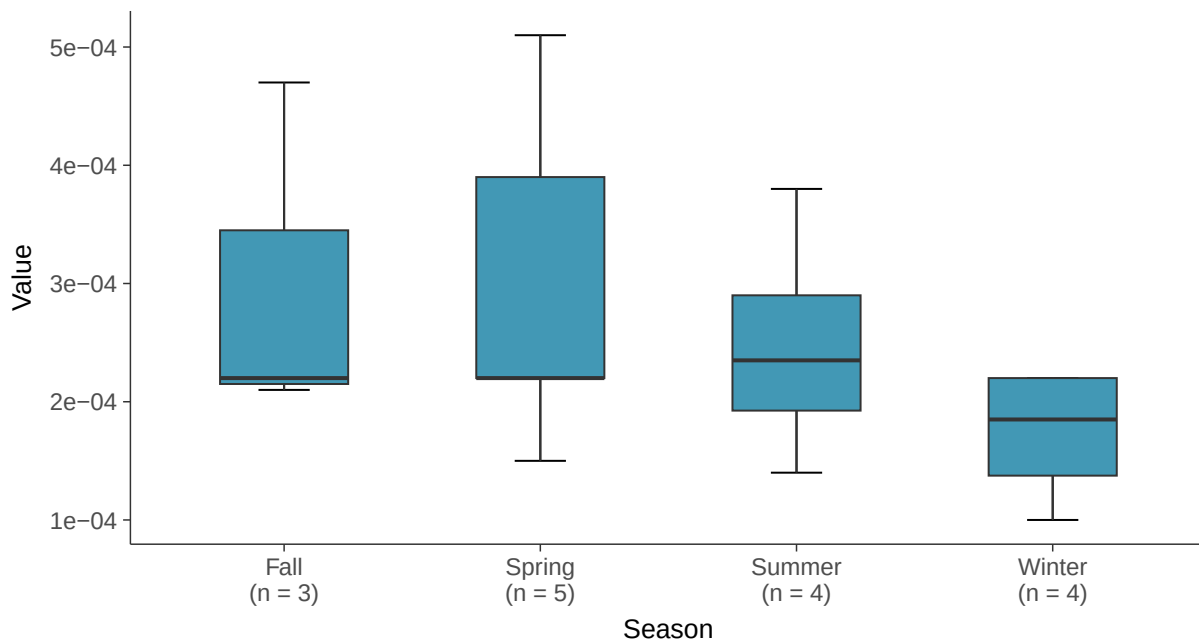
Boxplot

Lead, MW-12 (mg/L)



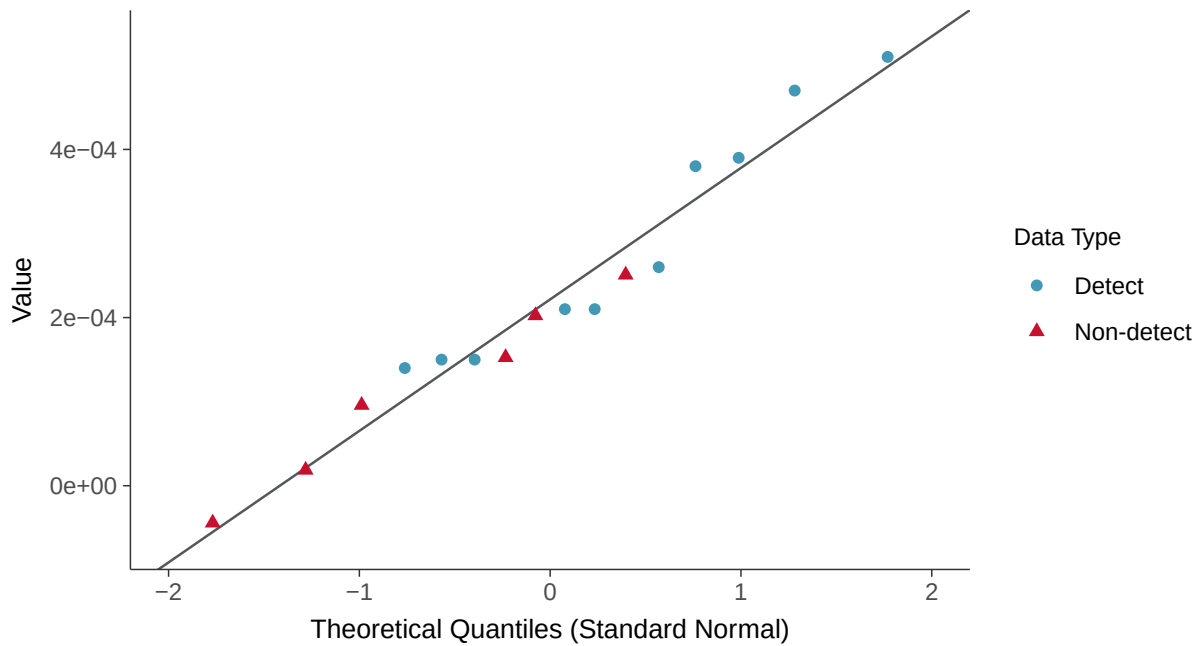
Boxplot by Season

Lead, MW-12 (mg/L)



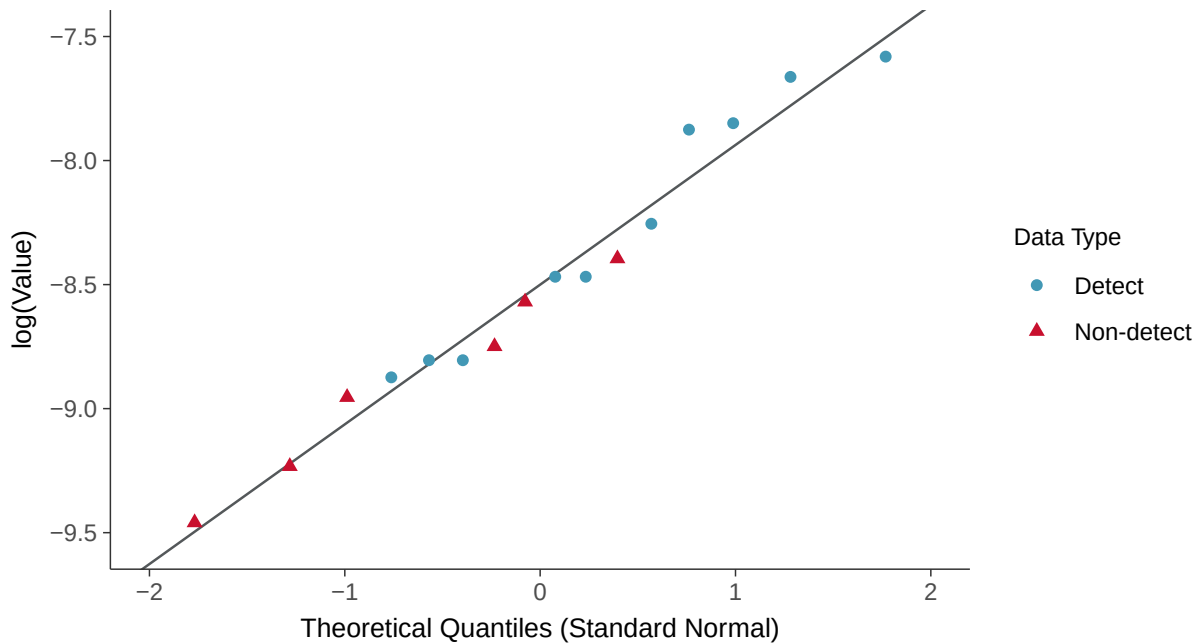
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)

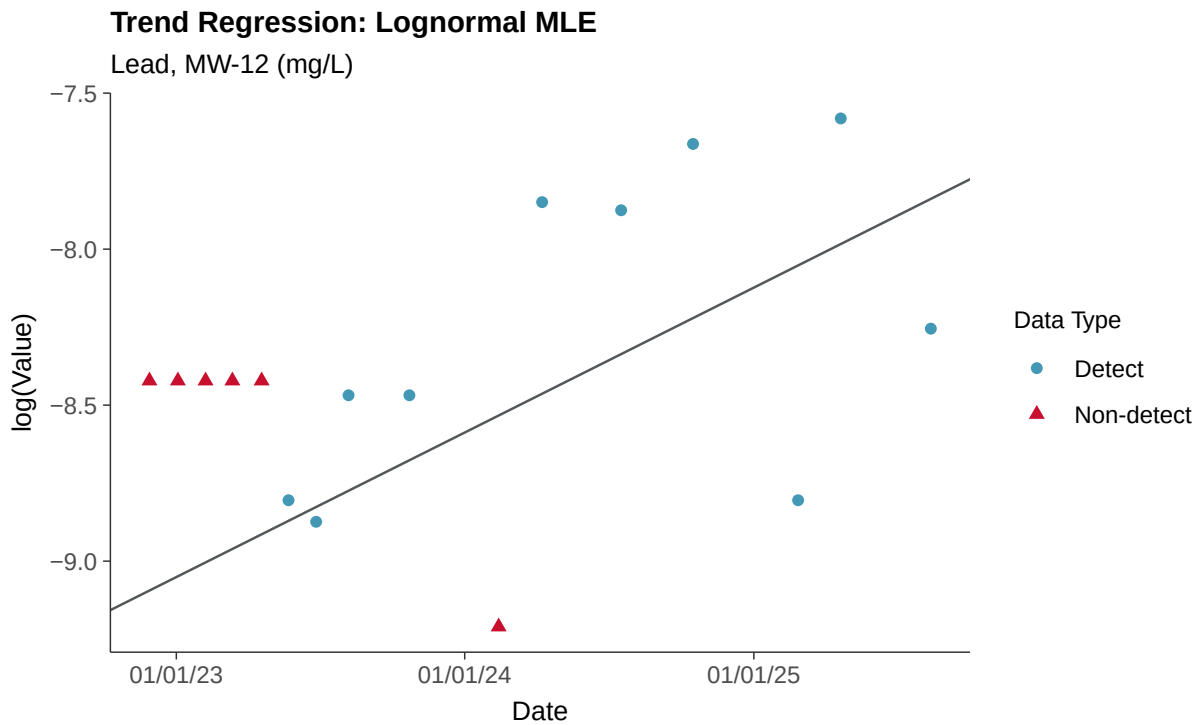


Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)

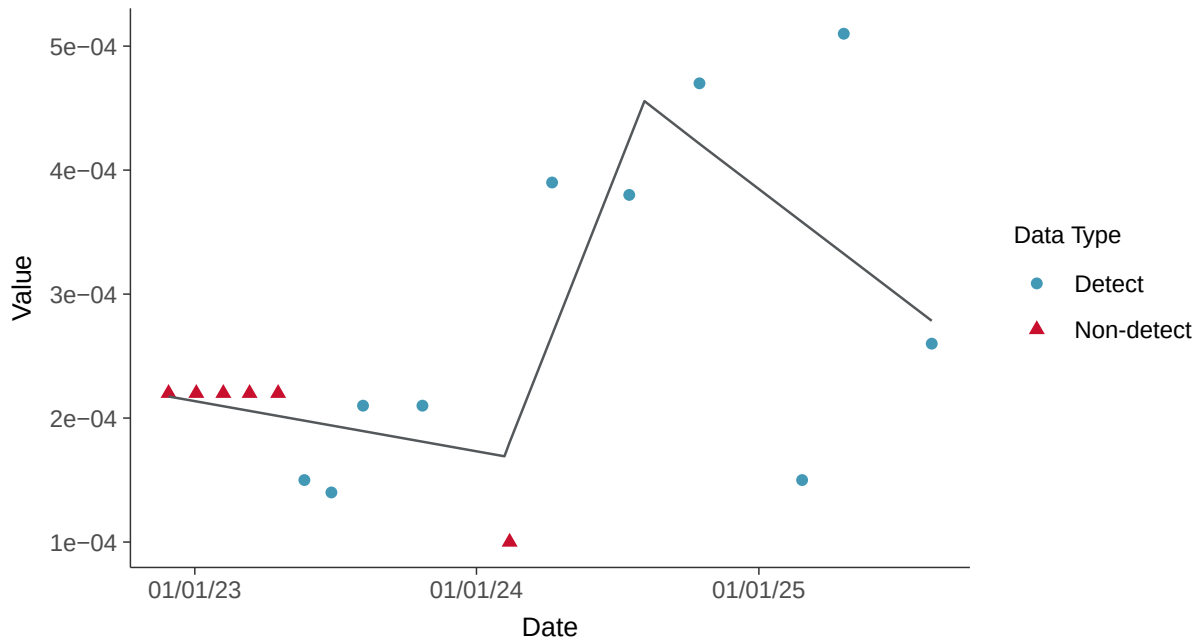


Lead, MW-12 (mg/L)



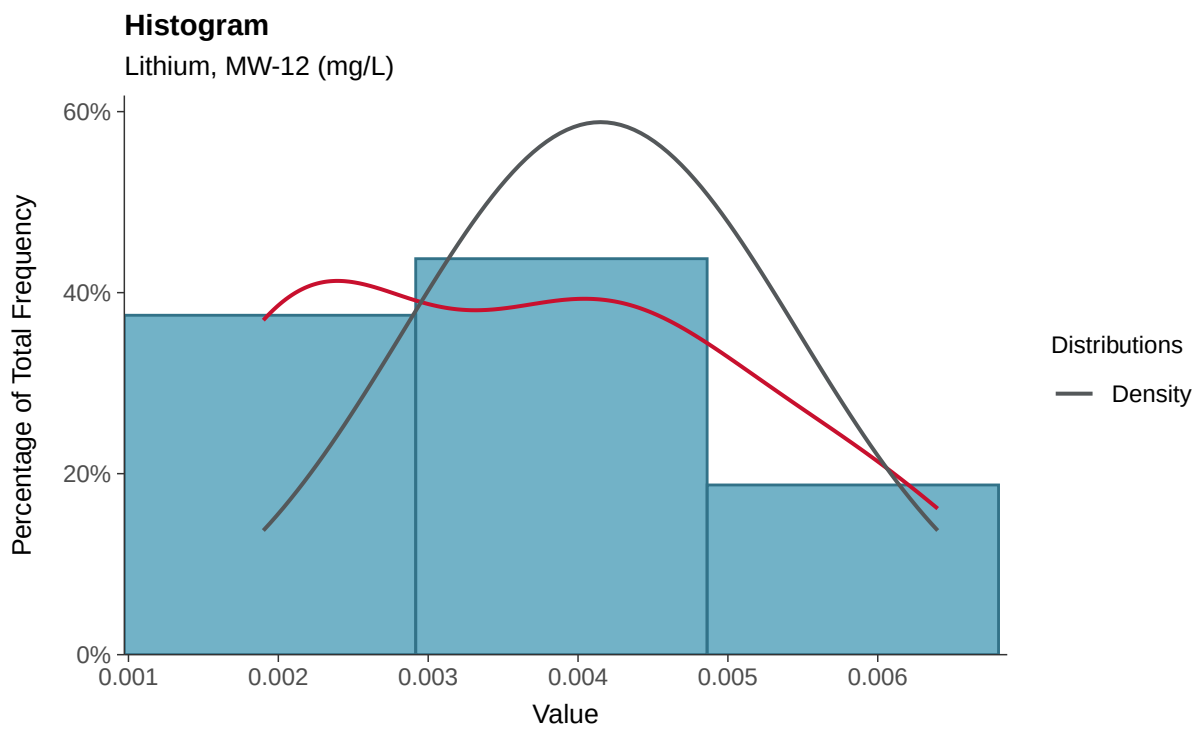
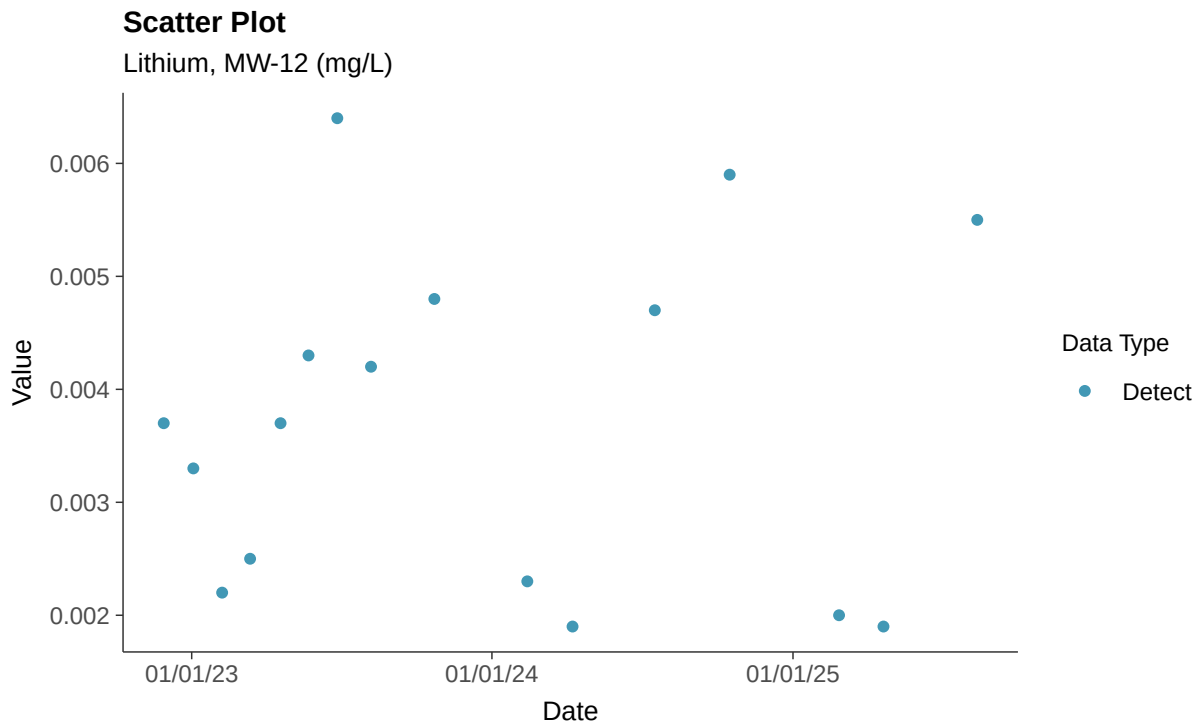
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-12 (mg/L)



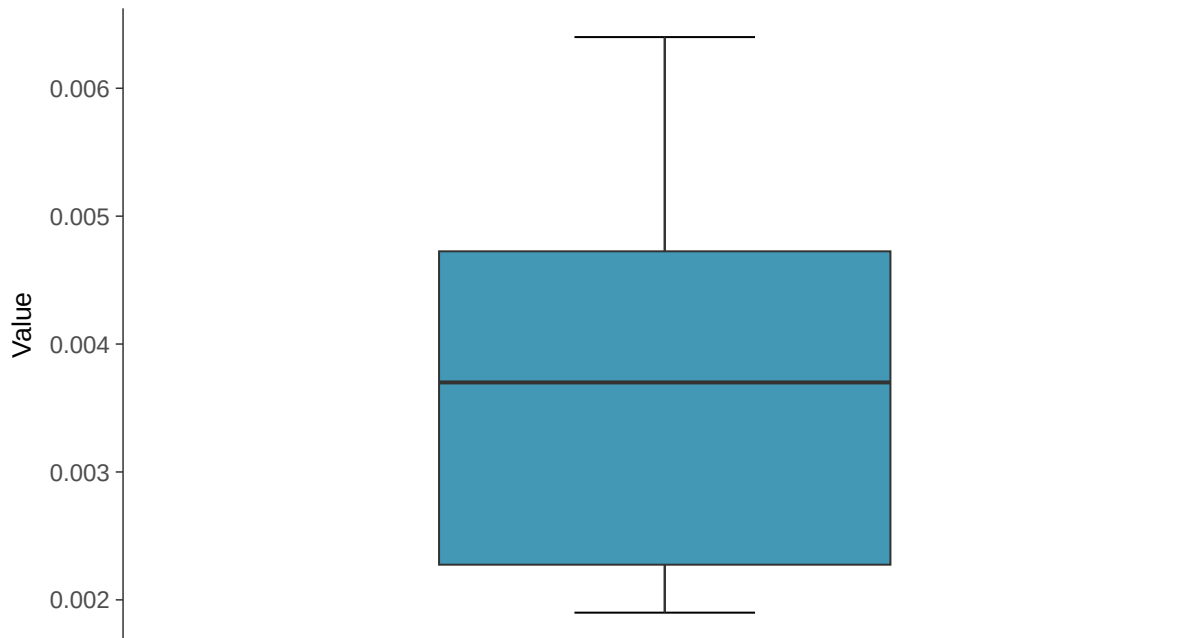
Appendix IV: Lithium, MW-12

ID: 22_2_4_116



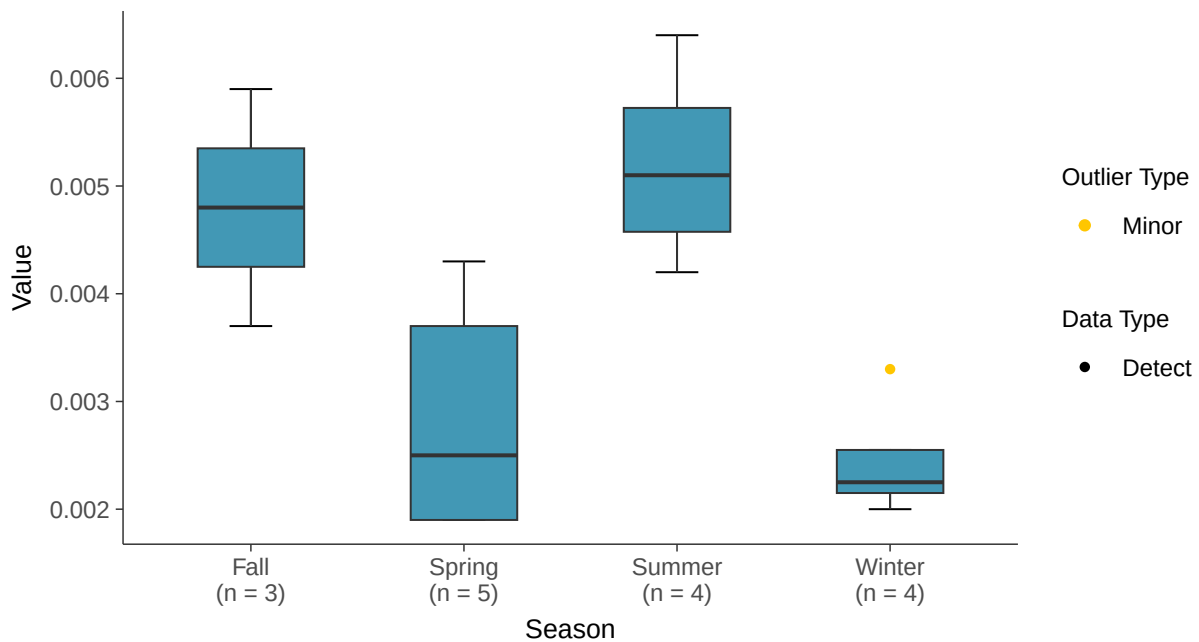
Boxplot

Lithium, MW-12 (mg/L)



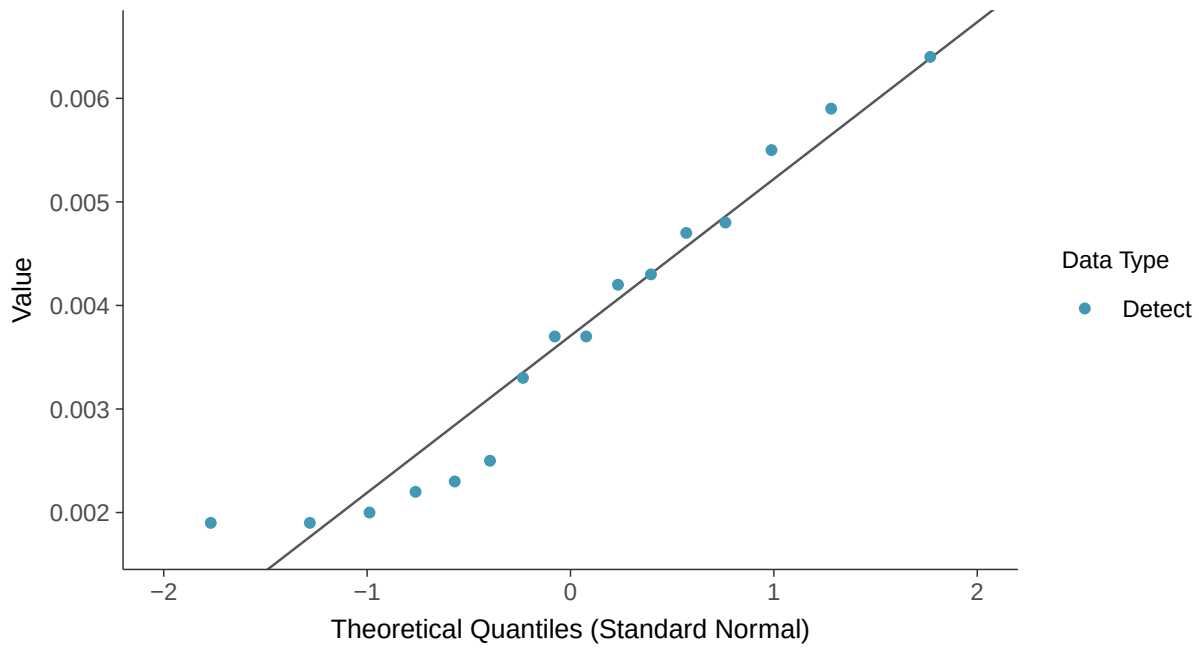
Boxplot by Season

Lithium, MW-12 (mg/L)



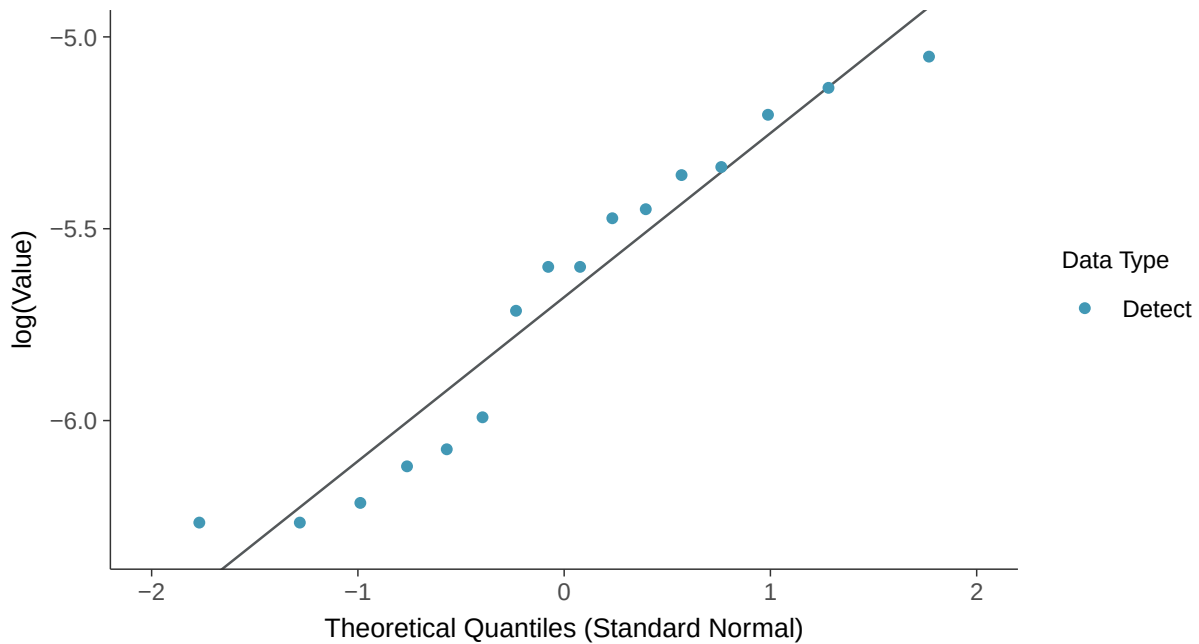
Normal Q-Q plot

Lithium, MW-12 (mg/L)



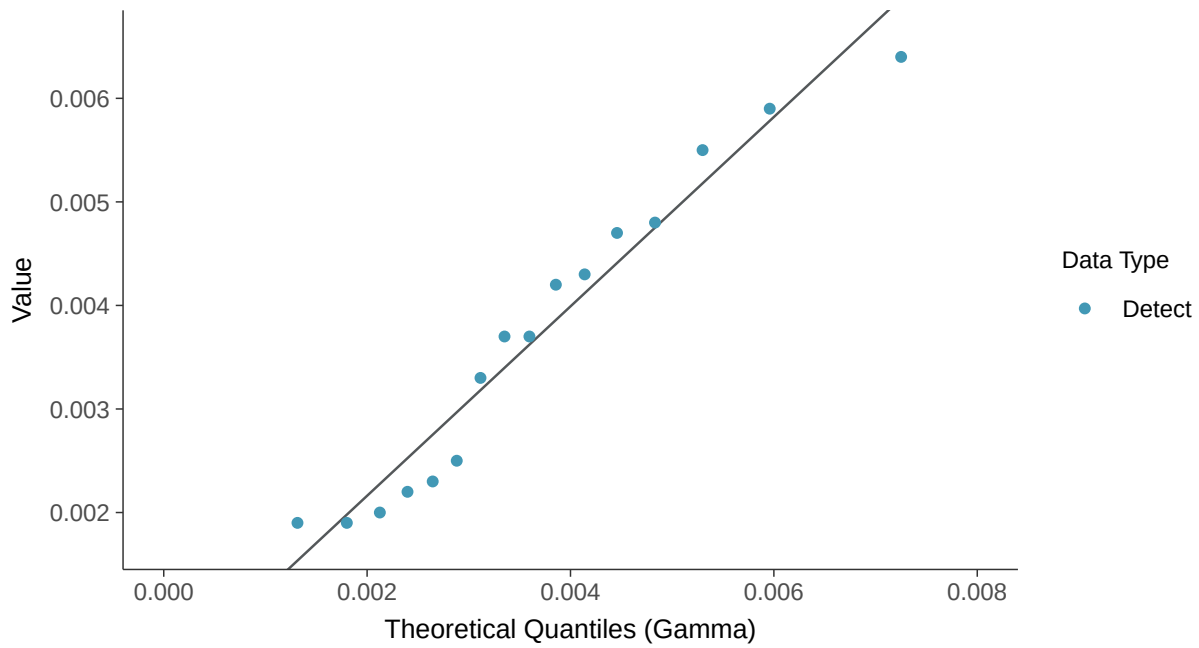
Lognormal Q-Q plot

Lithium, MW-12 (mg/L)



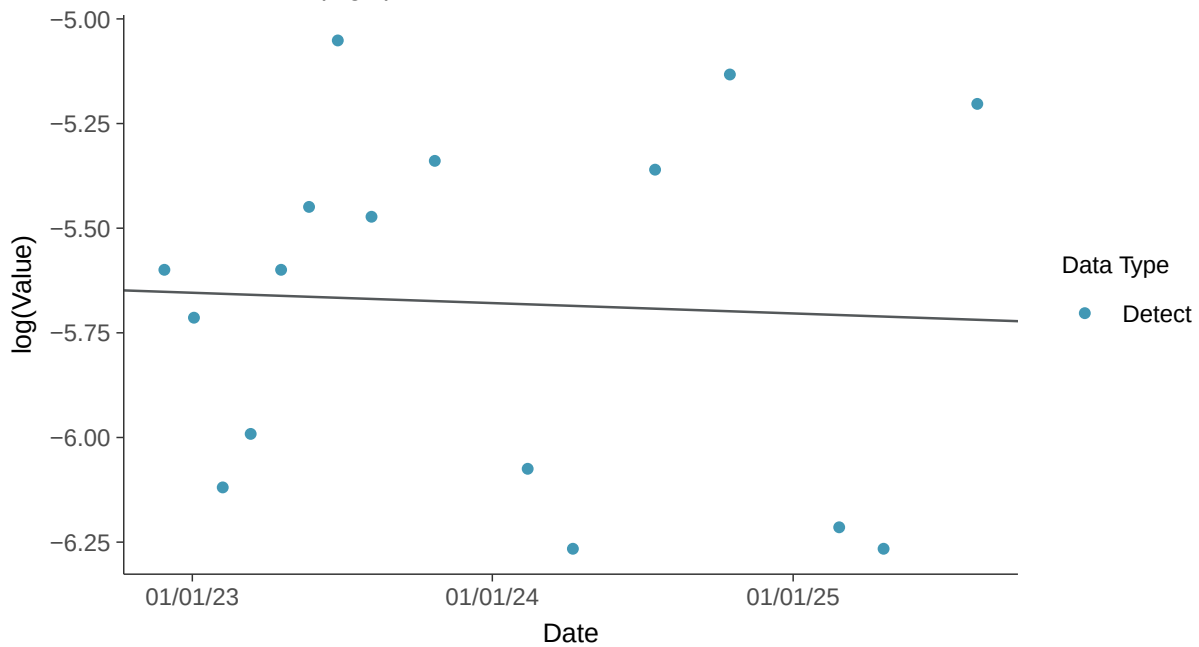
Gamma Q-Q plot

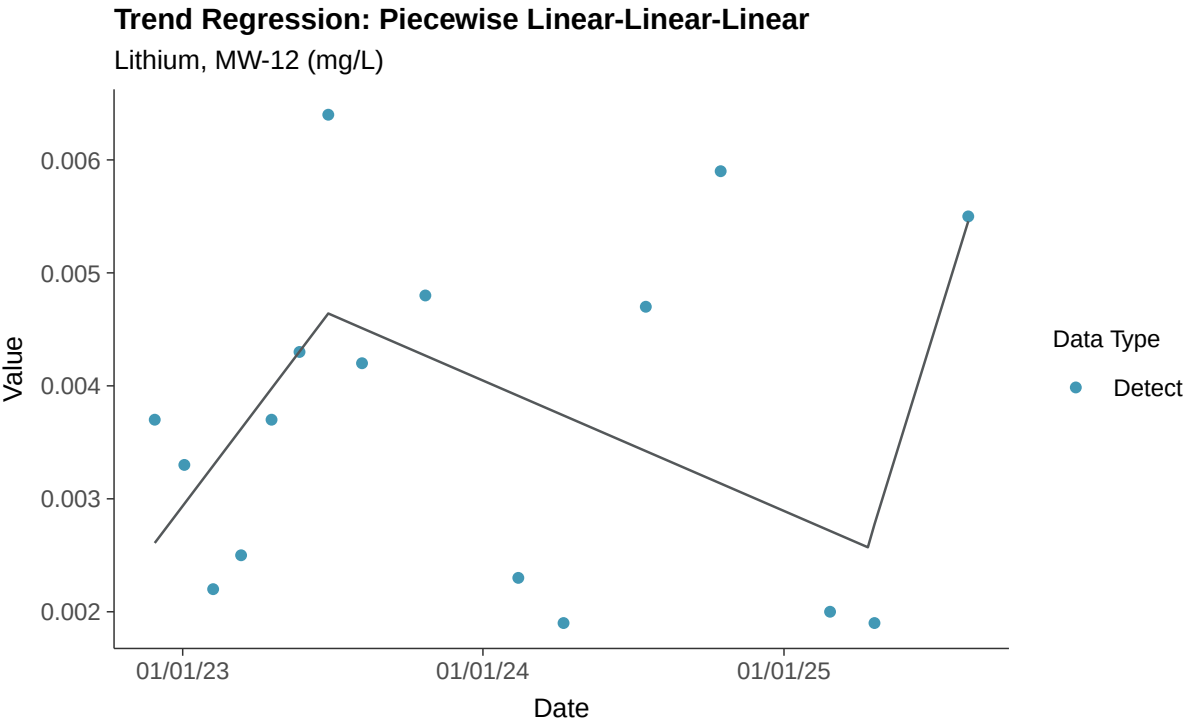
Lithium, MW-12 (mg/L)

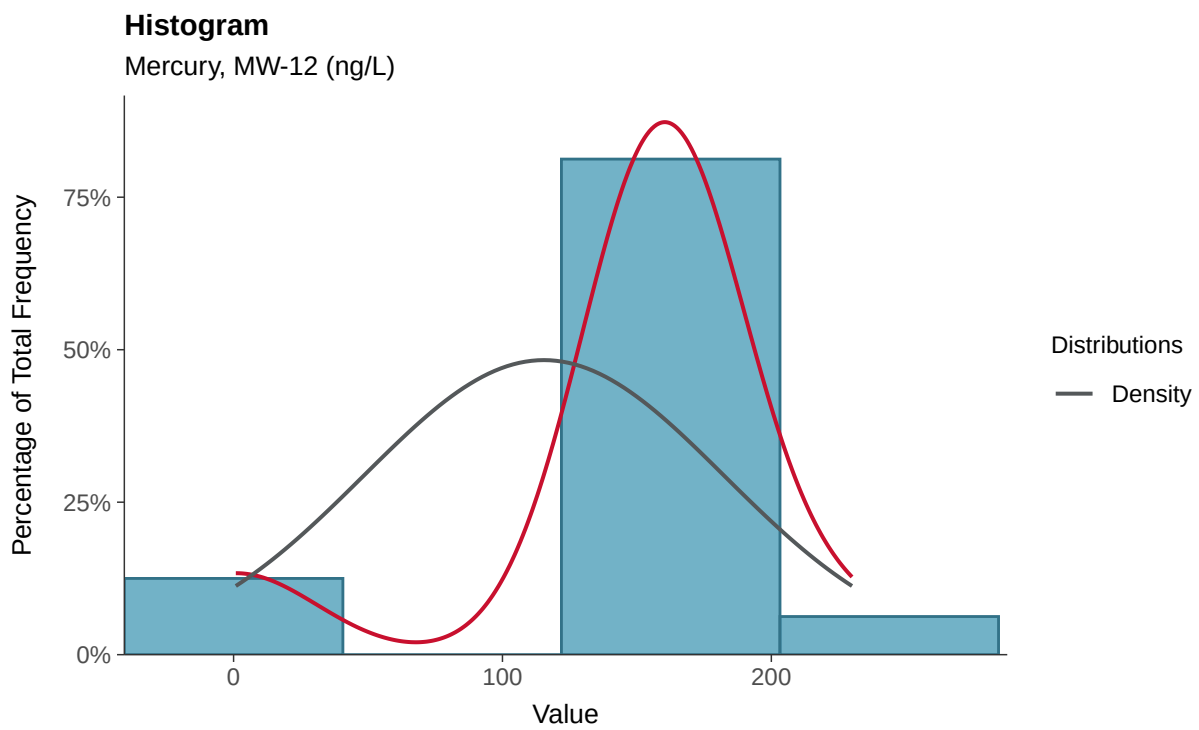


Trend Regression: Lognormal MLE

Lithium, MW-12 (mg/L)

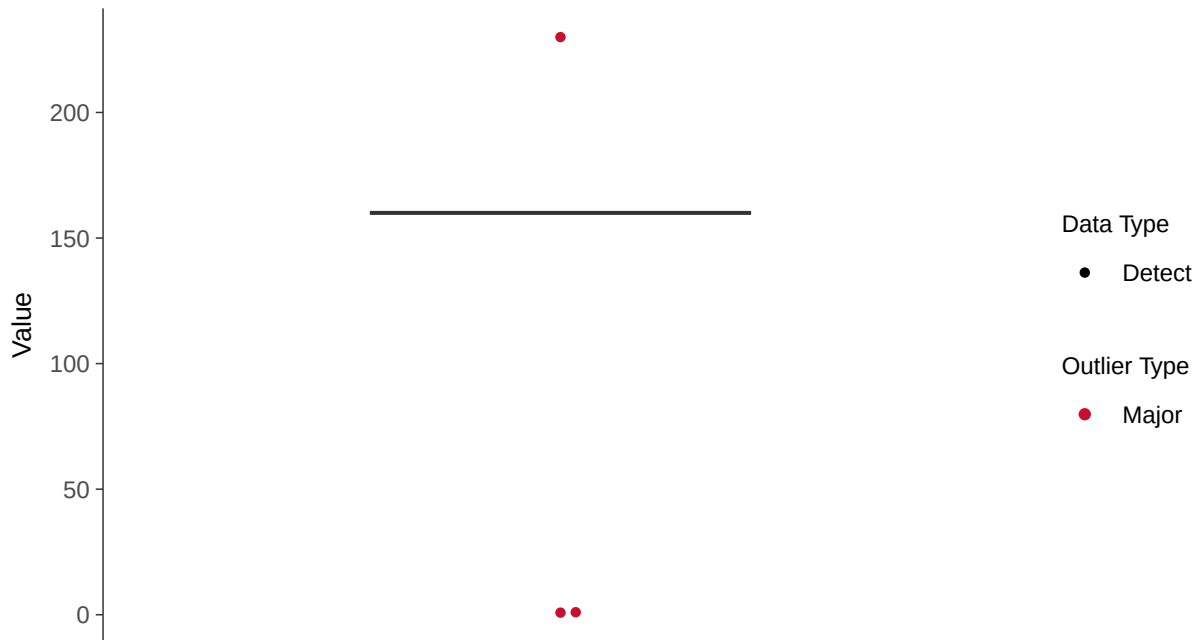






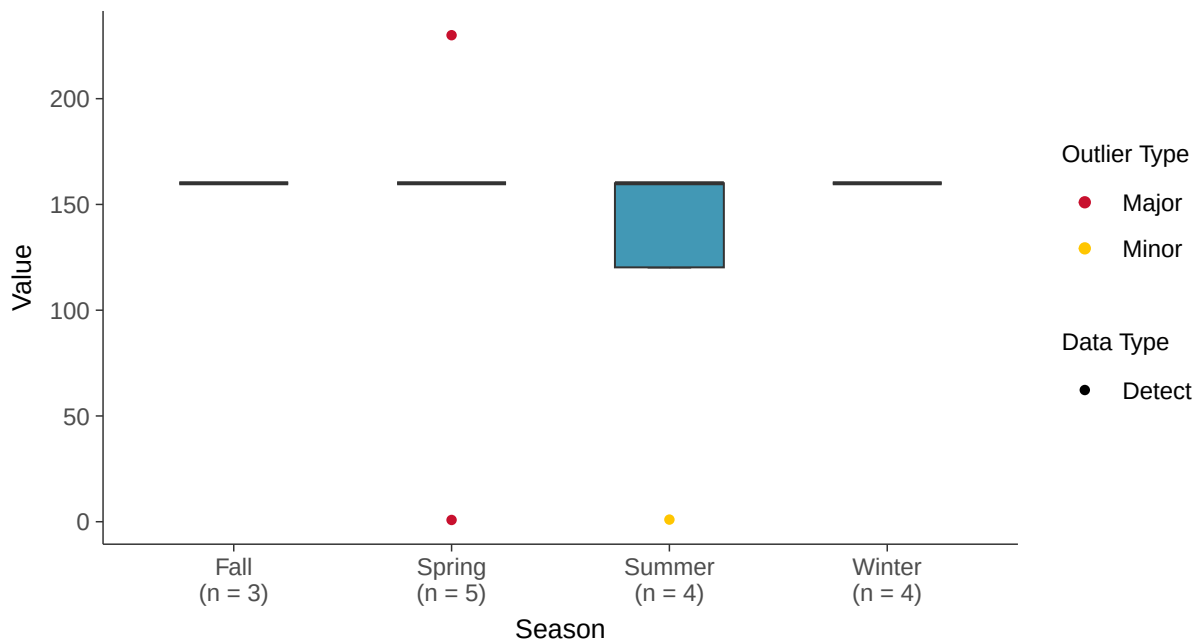
Boxplot

Mercury, MW-12 (ng/L)



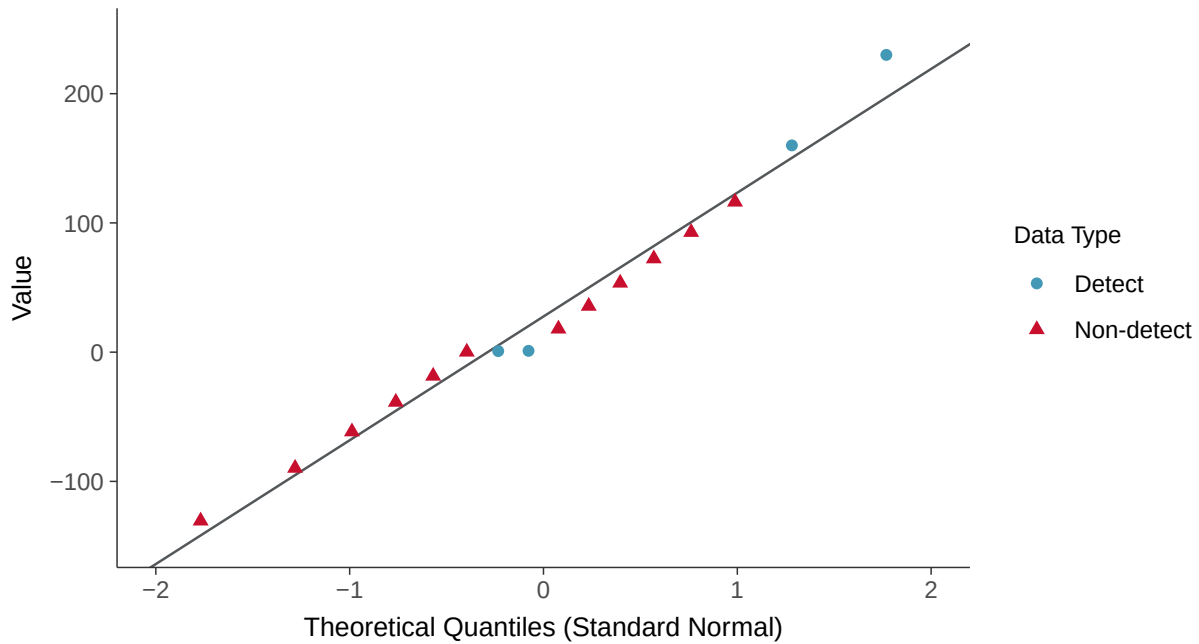
Boxplot by Season

Mercury, MW-12 (ng/L)



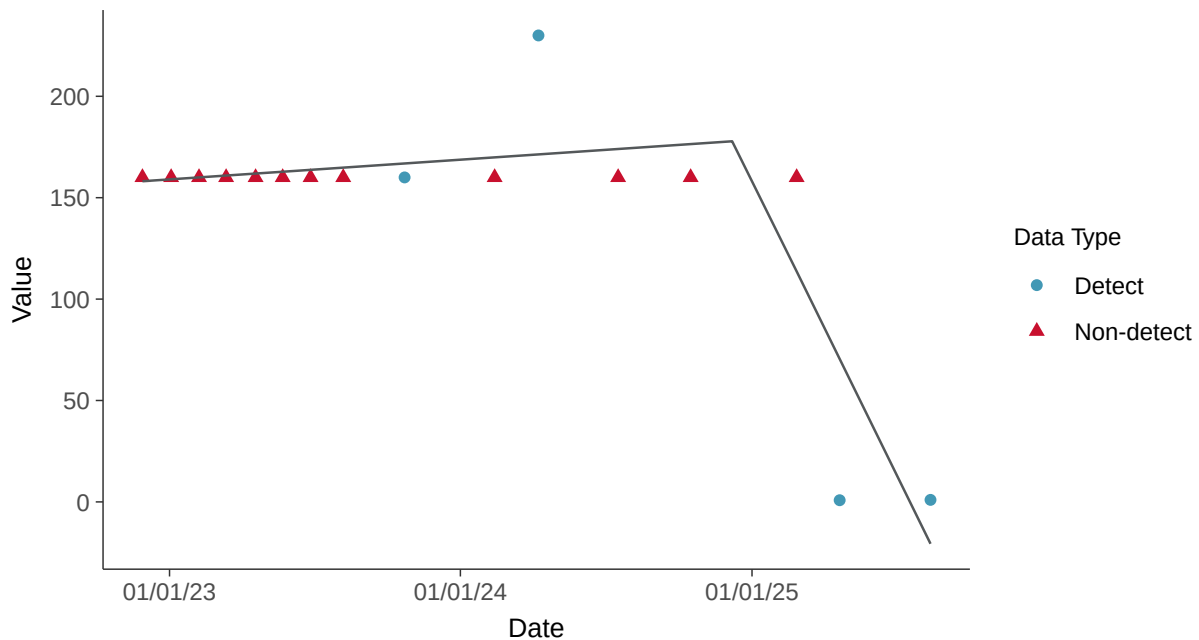
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-12 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-12 (ng/L)

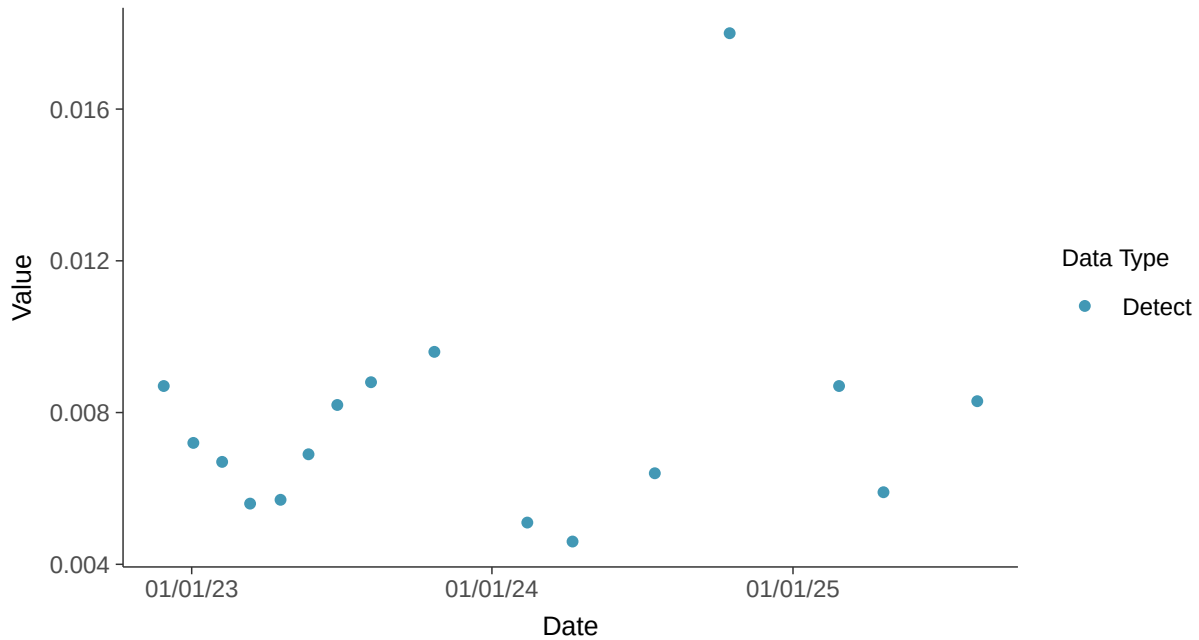


Appendix IV: Molybdenum, MW-12

ID: 22_2_4_118

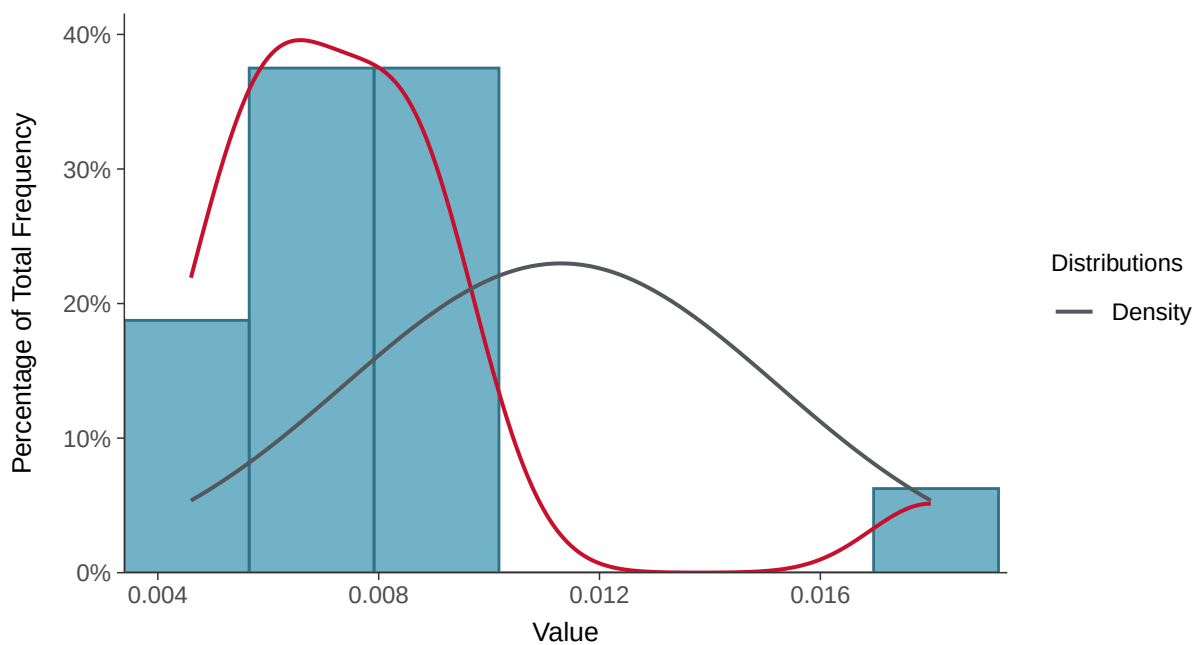
Scatter Plot

Molybdenum, MW-12 (mg/L)



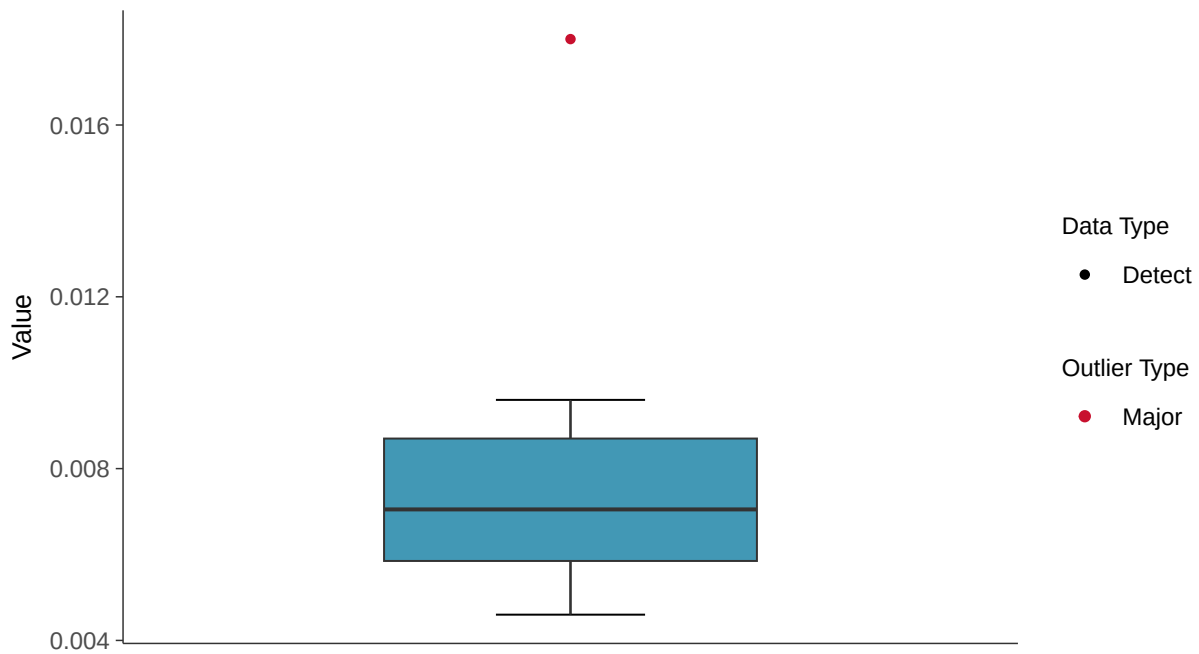
Histogram

Molybdenum, MW-12 (mg/L)



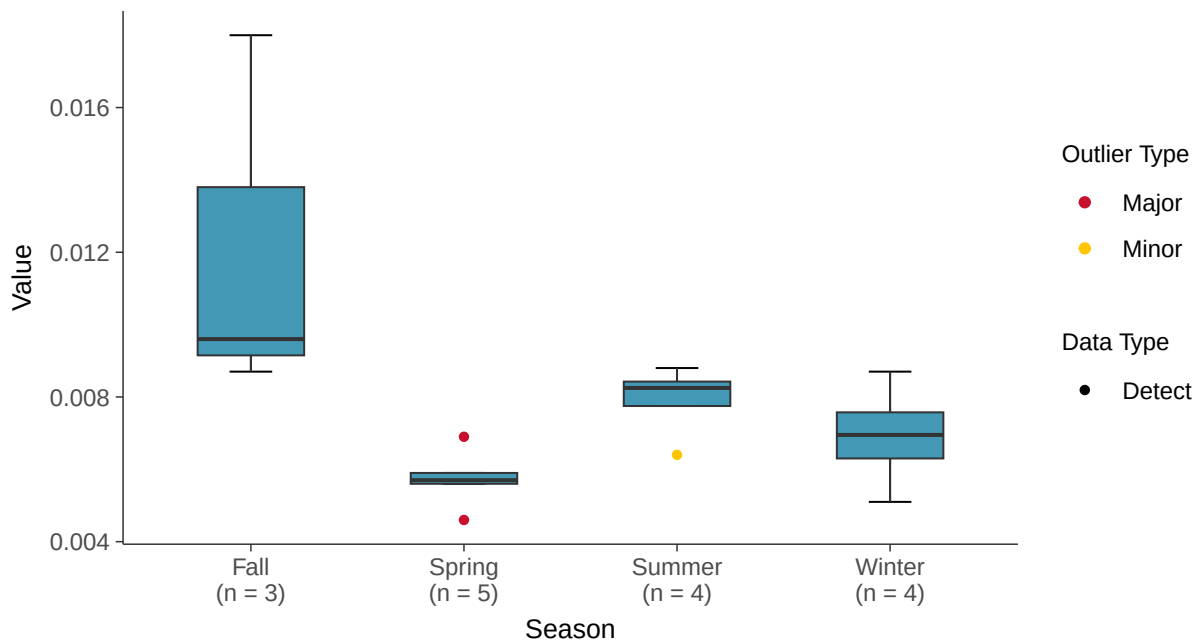
Boxplot

Molybdenum, MW-12 (mg/L)



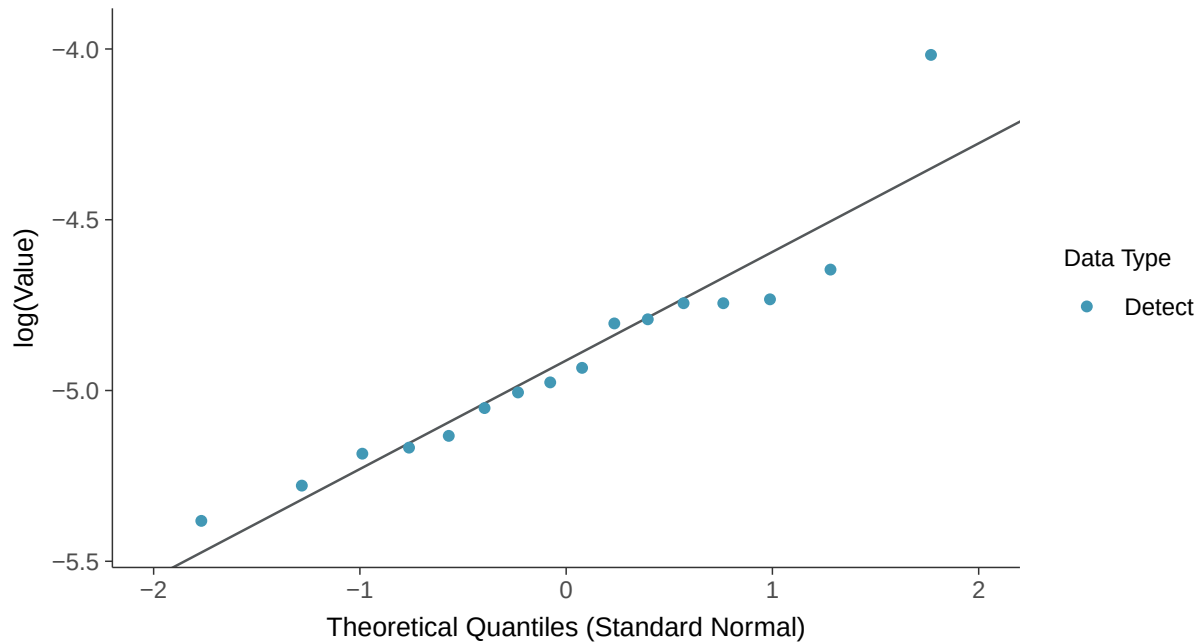
Boxplot by Season

Molybdenum, MW-12 (mg/L)



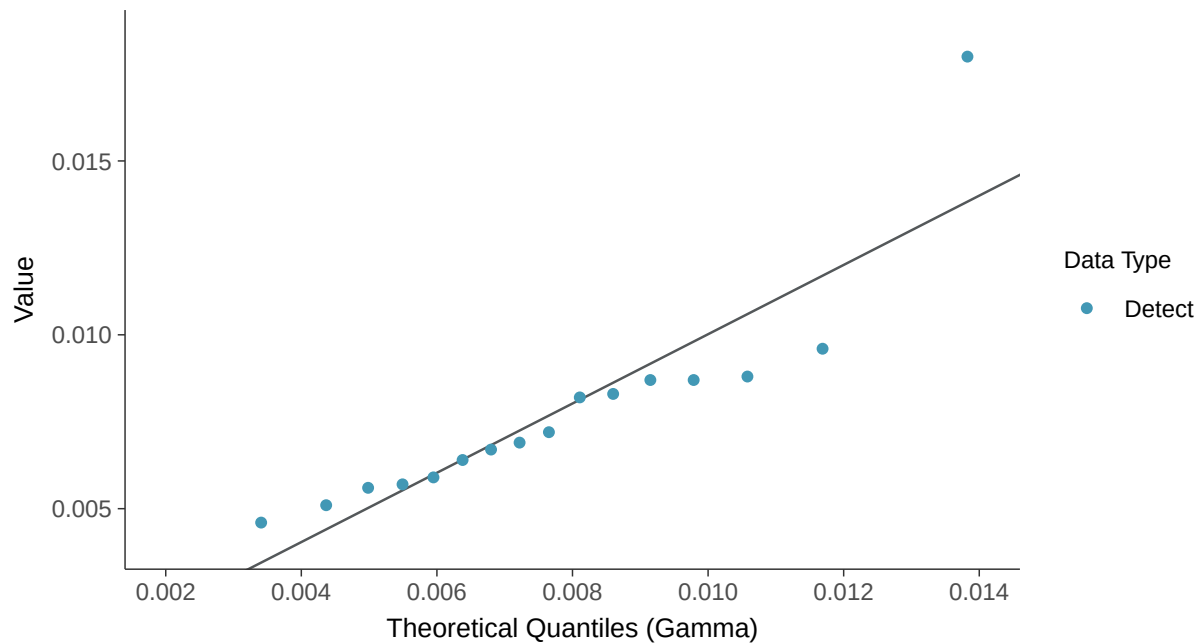
Lognormal Q-Q plot

Molybdenum, MW-12 (mg/L)



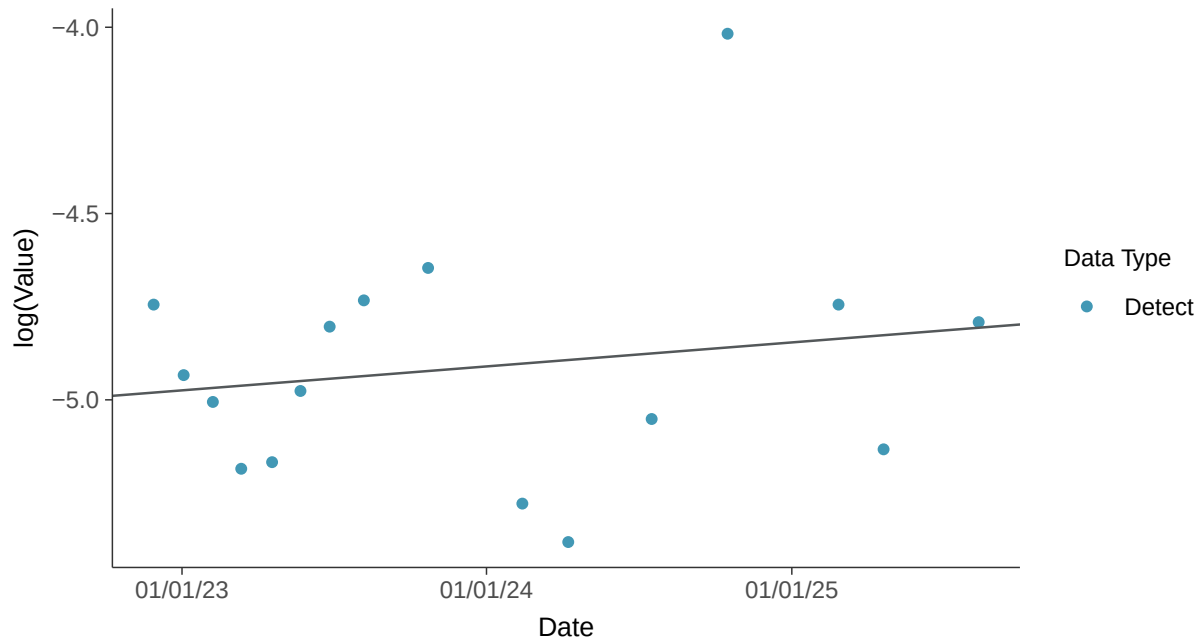
Gamma Q-Q plot

Molybdenum, MW-12 (mg/L)



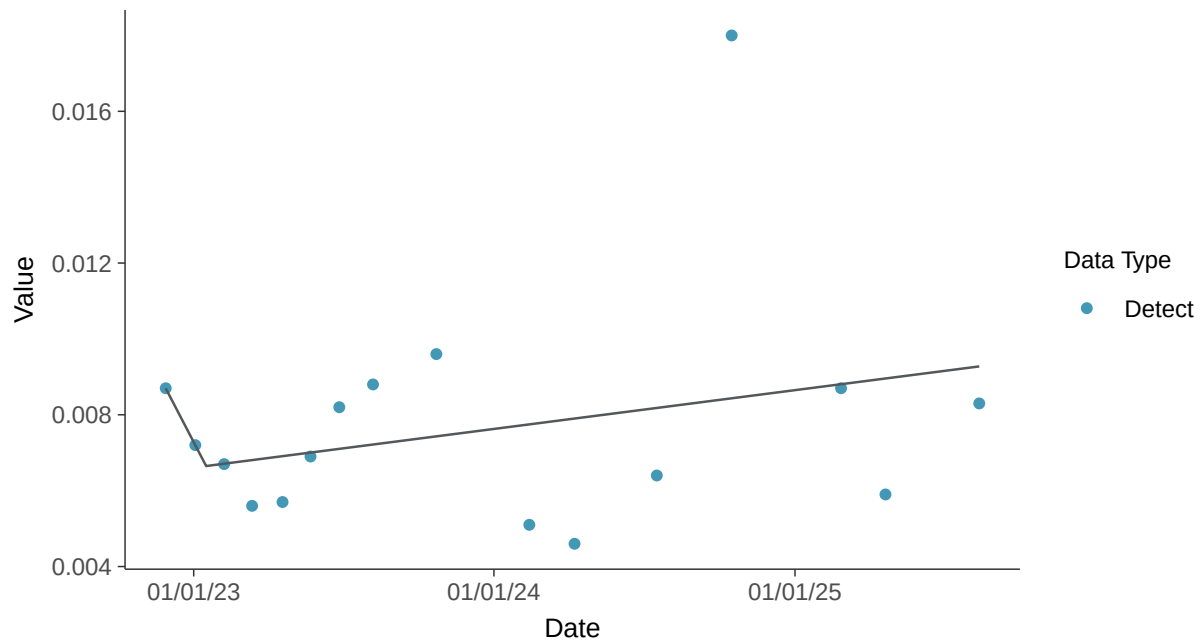
Trend Regression: Lognormal MLE

Molybdenum, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-12 (mg/L)

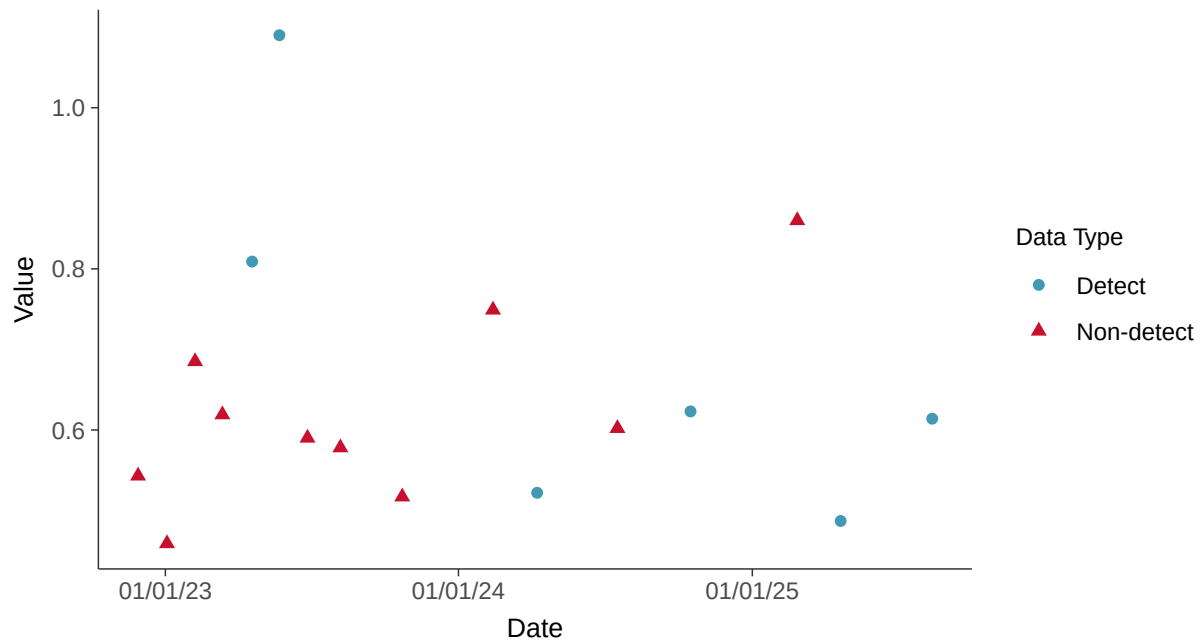


Appendix IV: Radium 226 and 228, MW-12

ID: 22_2_4_121

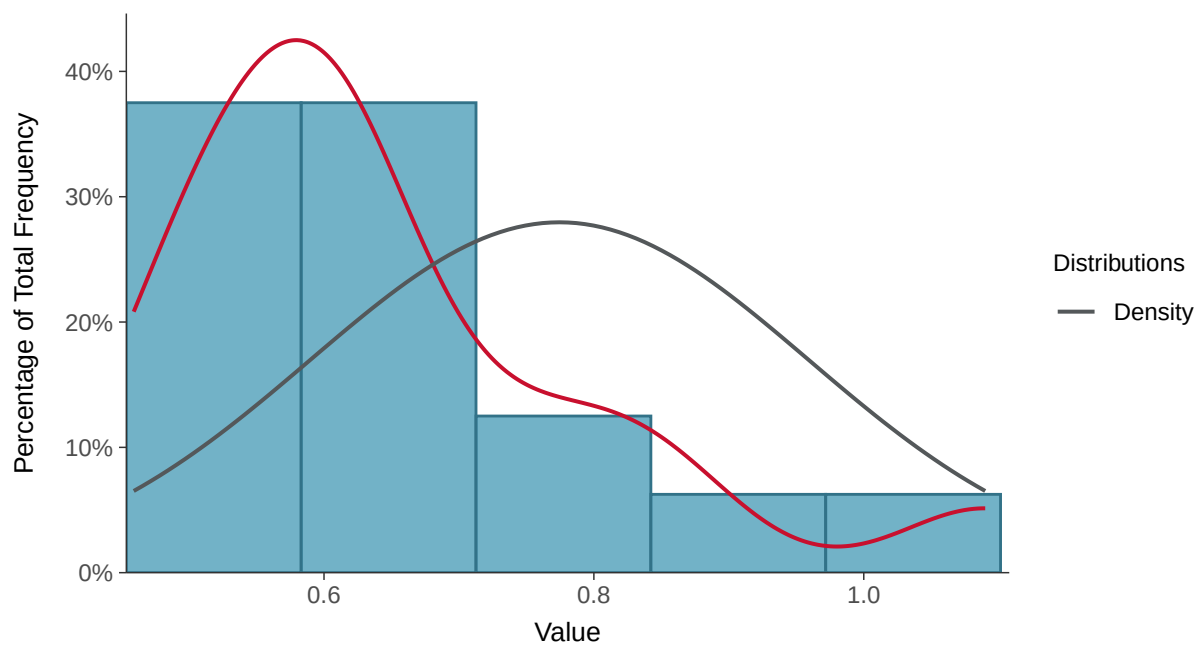
Scatter Plot

Radium 226 and 228, MW-12 (pCi/L)



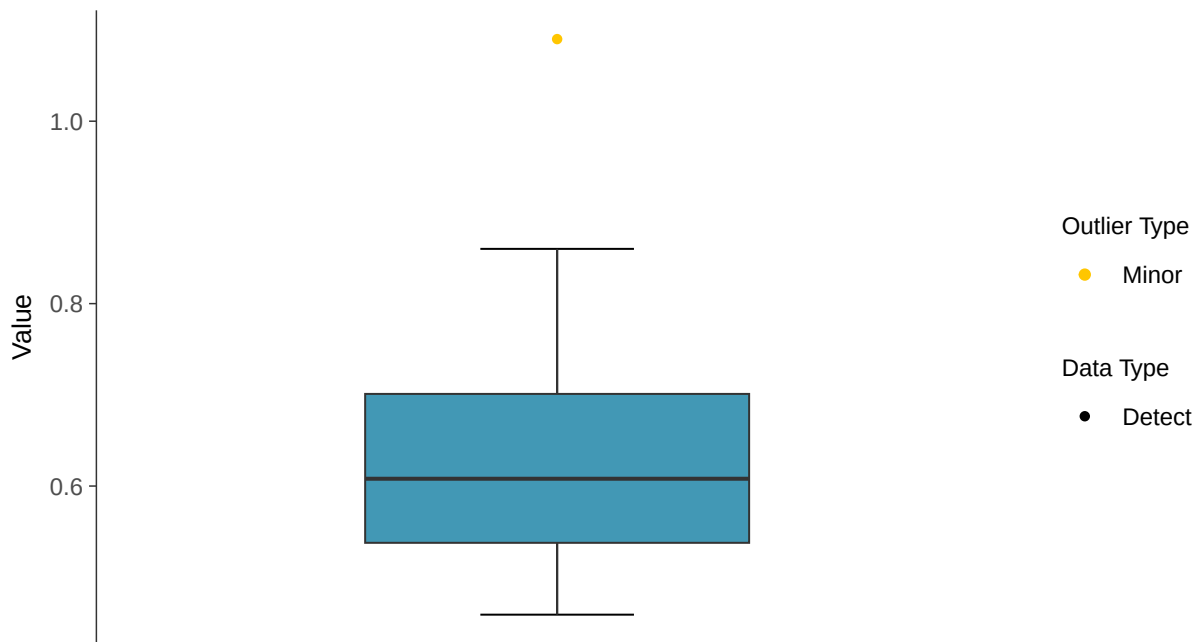
Histogram

Radium 226 and 228, MW-12 (pCi/L)



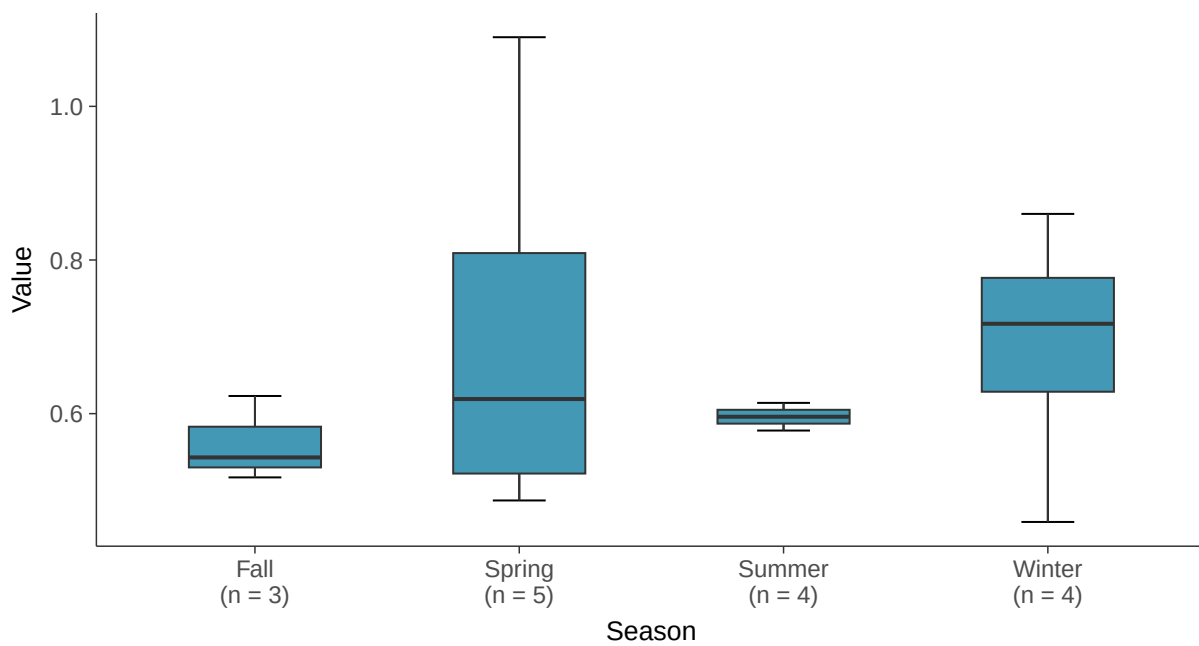
Boxplot

Radium 226 and 228, MW-12 (pCi/L)



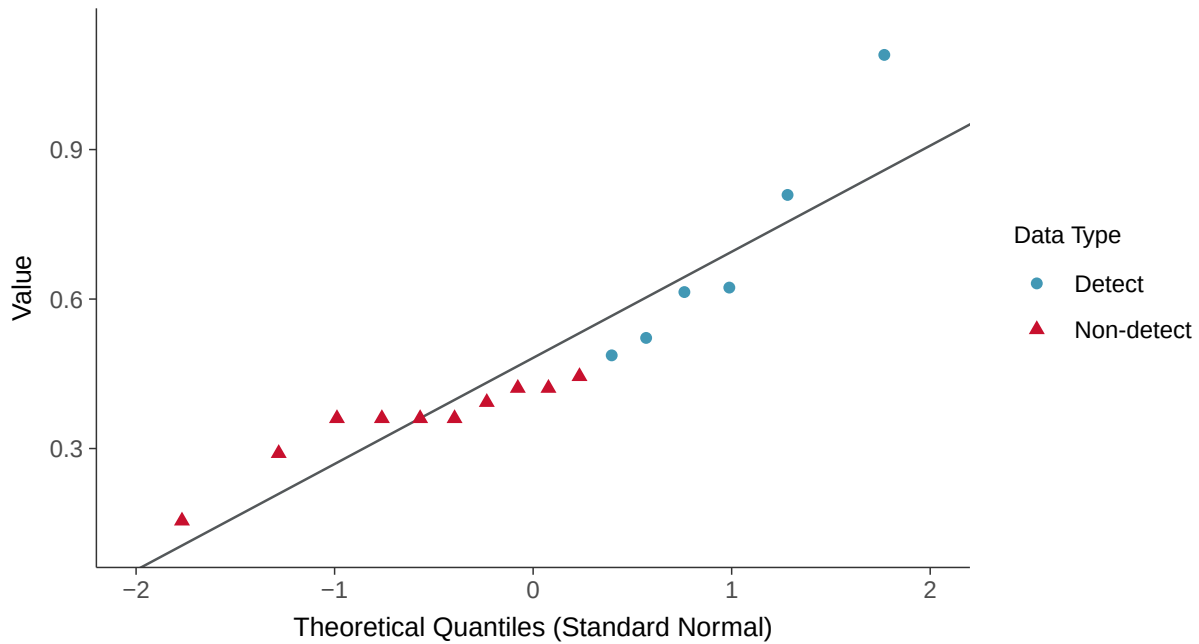
Boxplot by Season

Radium 226 and 228, MW-12 (pCi/L)



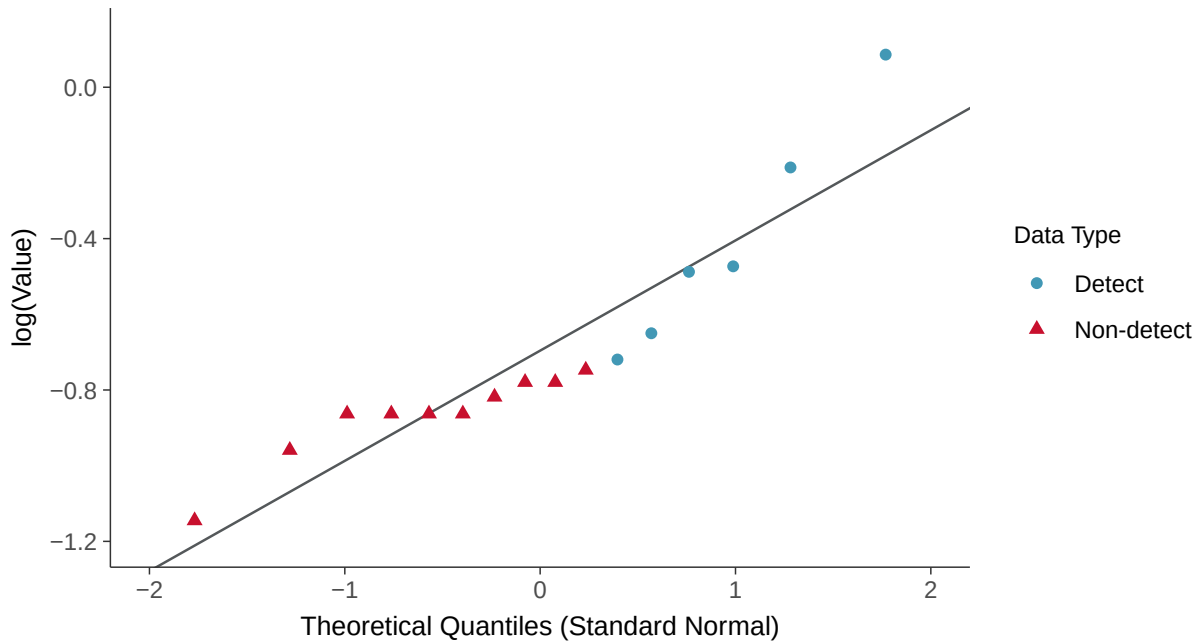
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



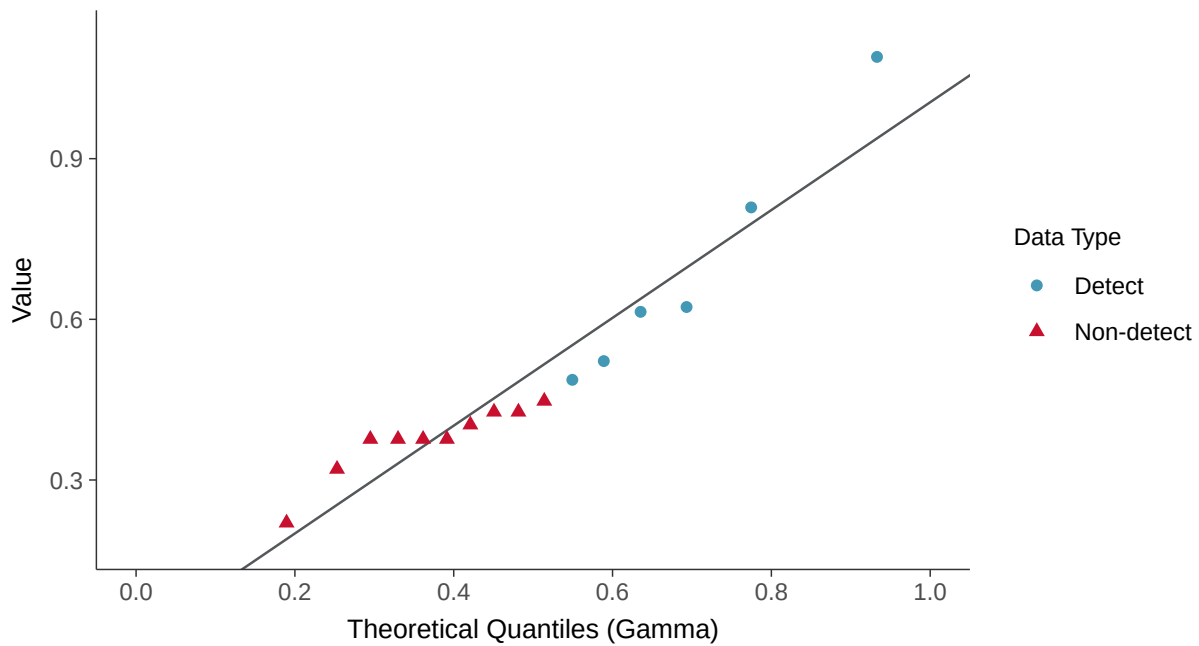
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



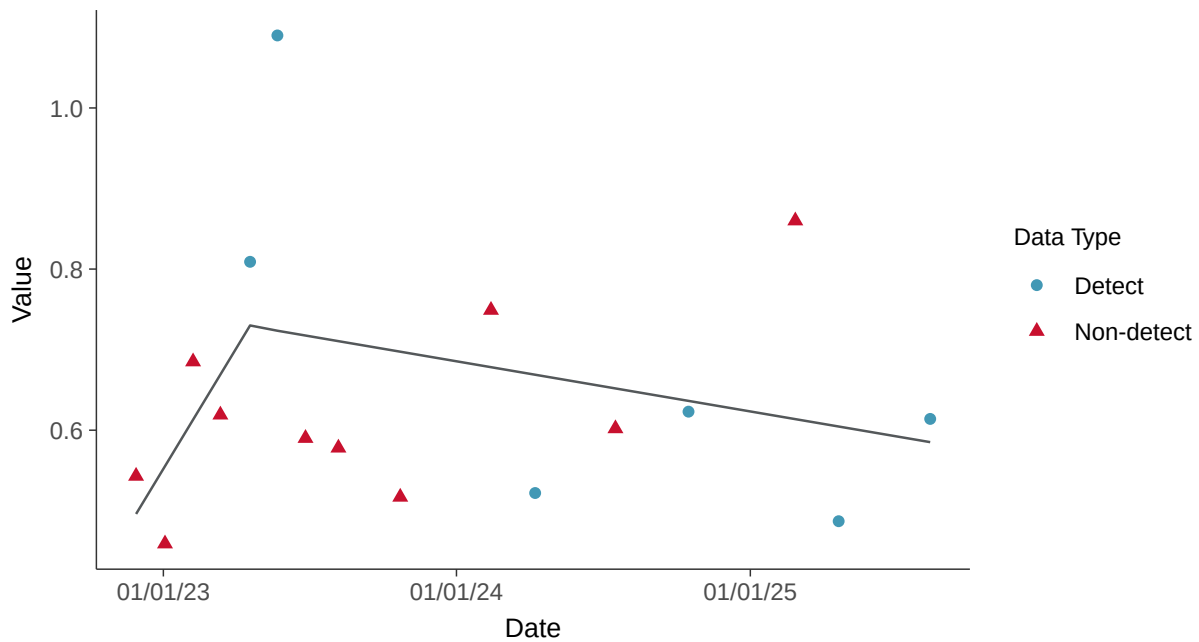
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



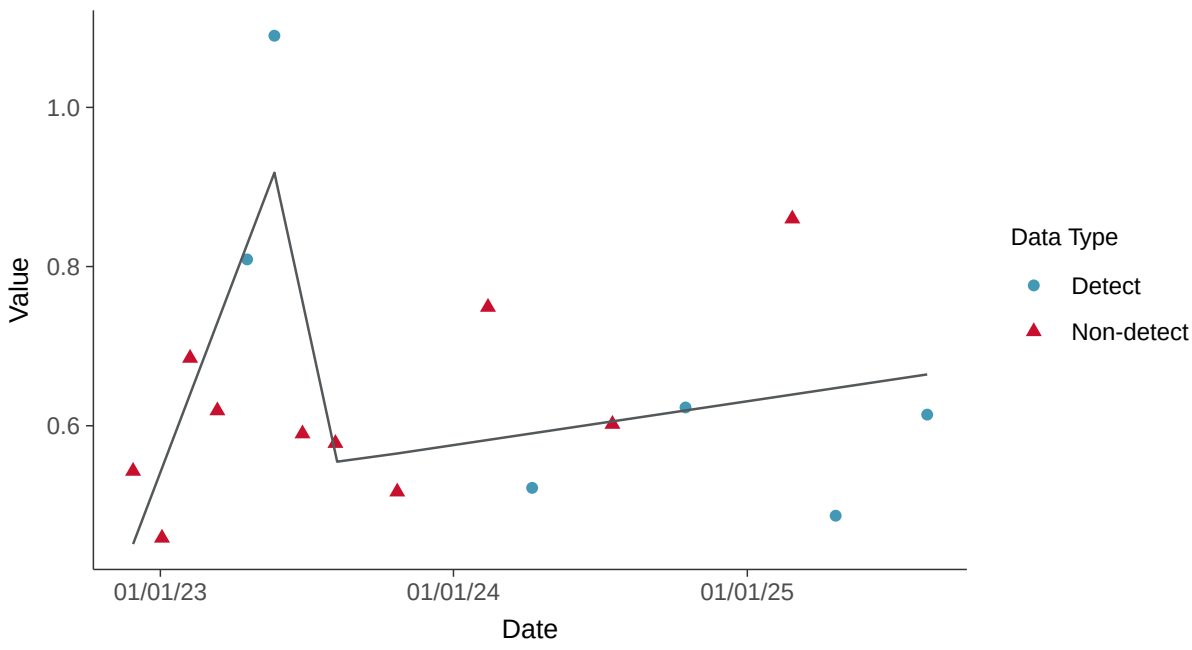
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-12 (pCi/L)



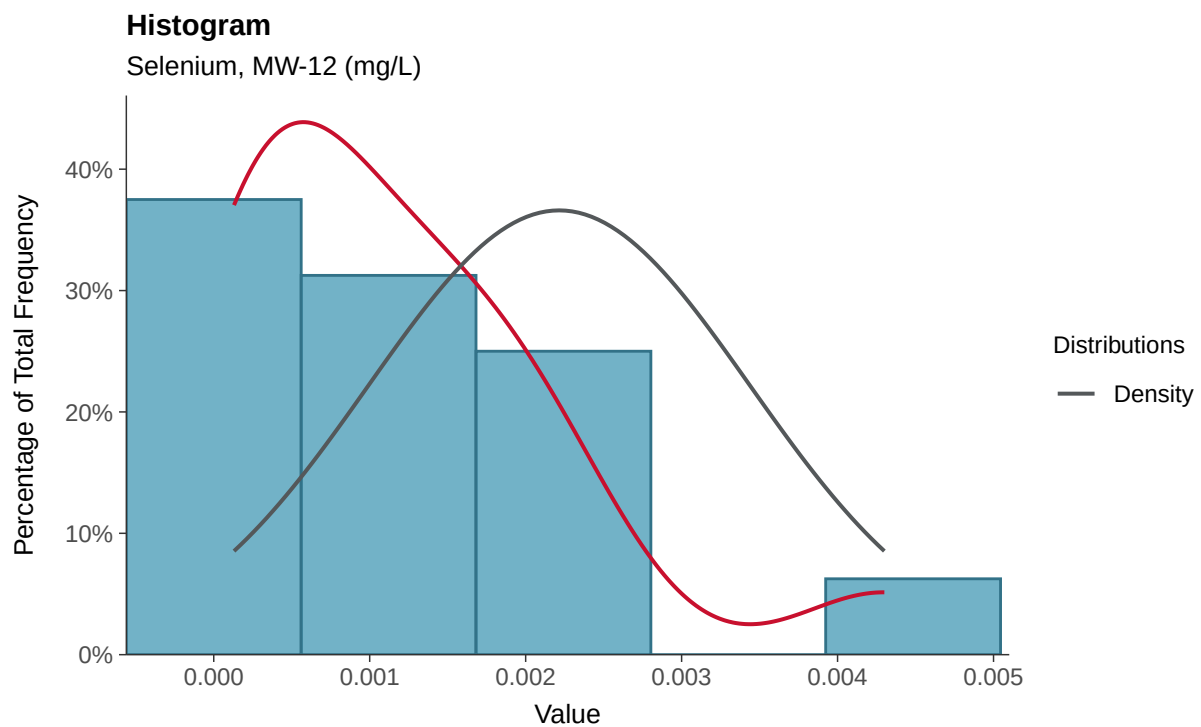
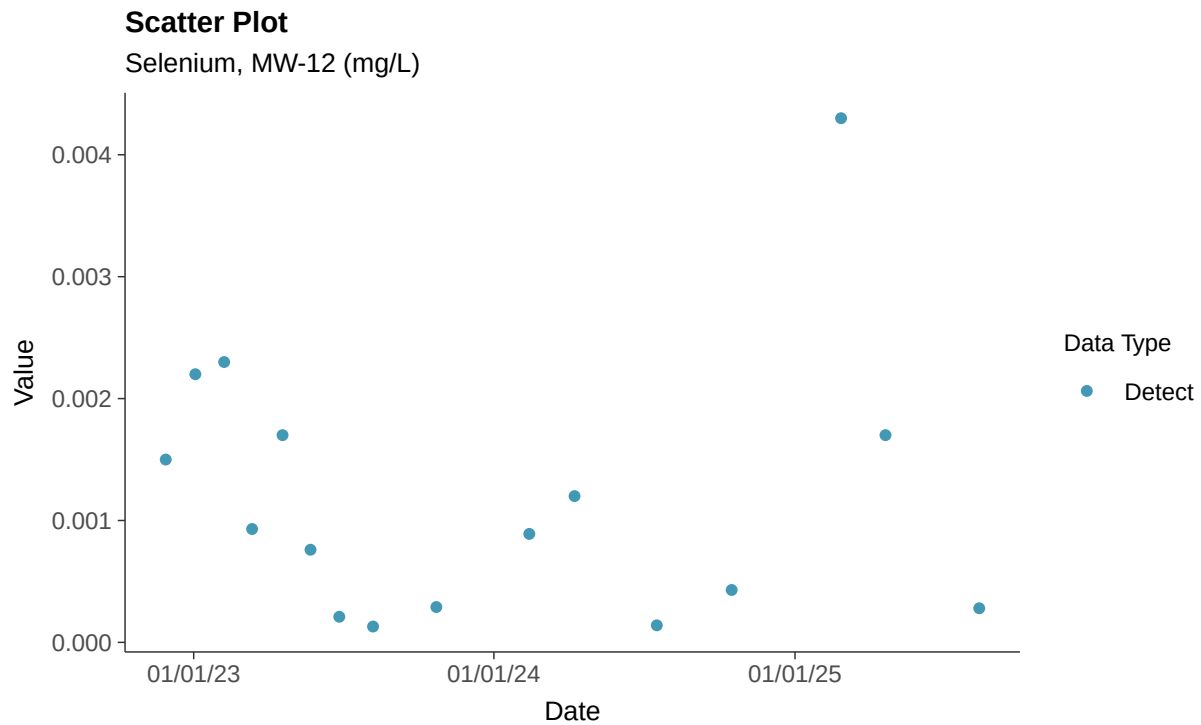


Trend Regression: Piecewise Linear-Linear-Linear
Radium 226 and 228, MW-12 (pCi/L)



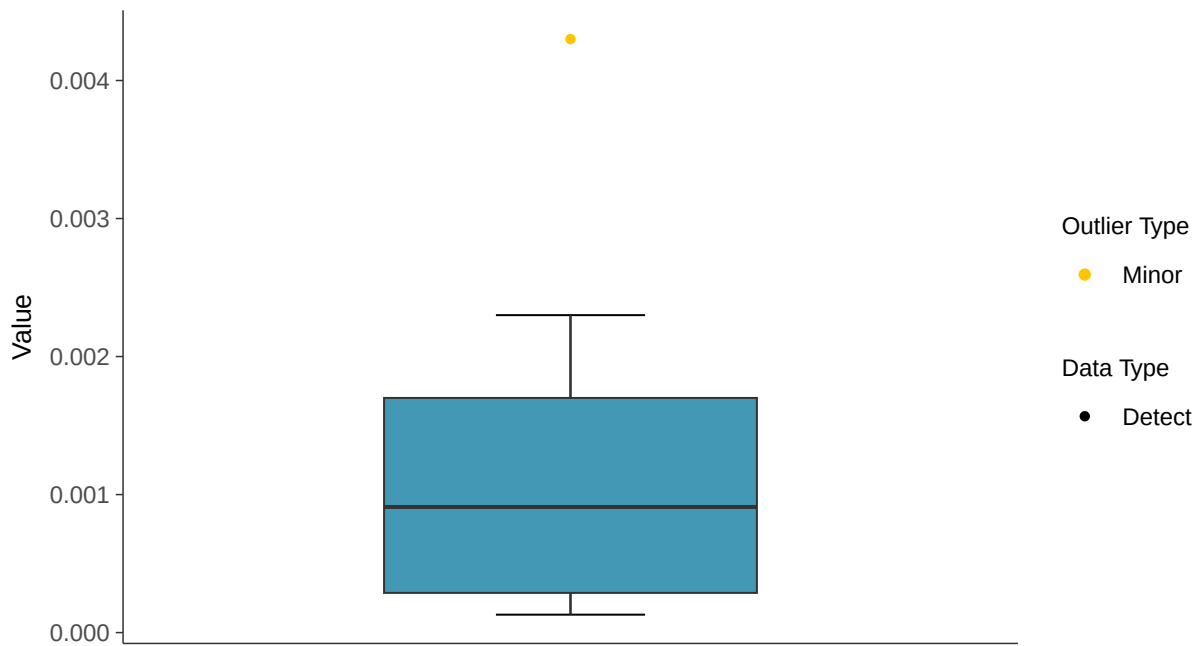
Appendix IV: Selenium, MW-12

ID: 22_2_4_122



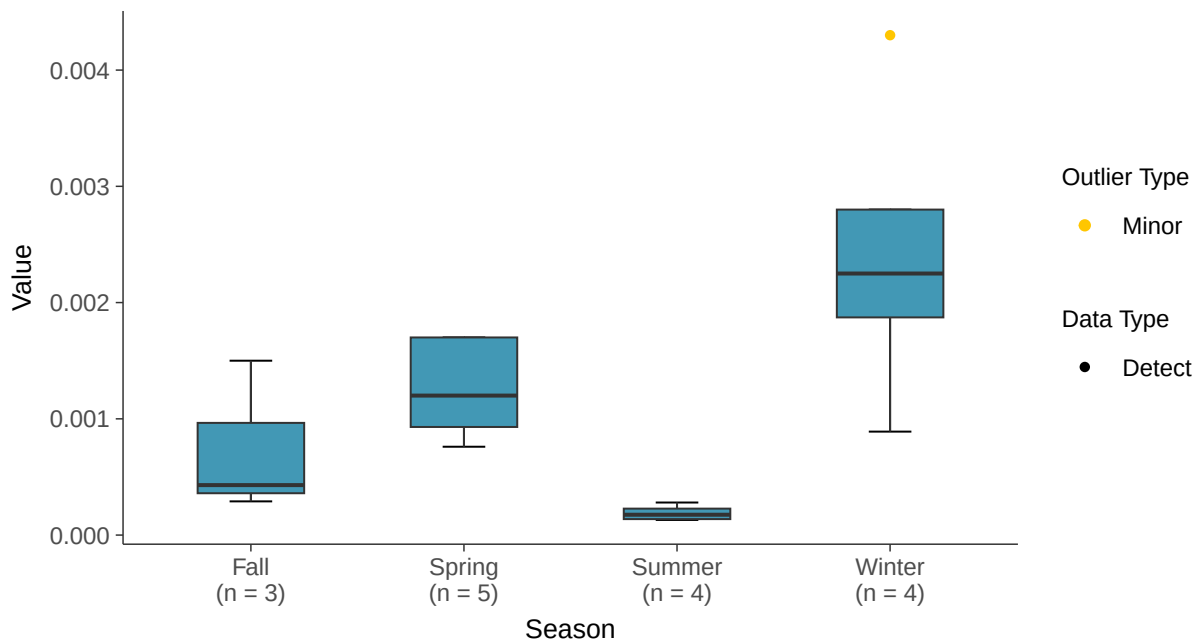
Boxplot

Selenium, MW-12 (mg/L)



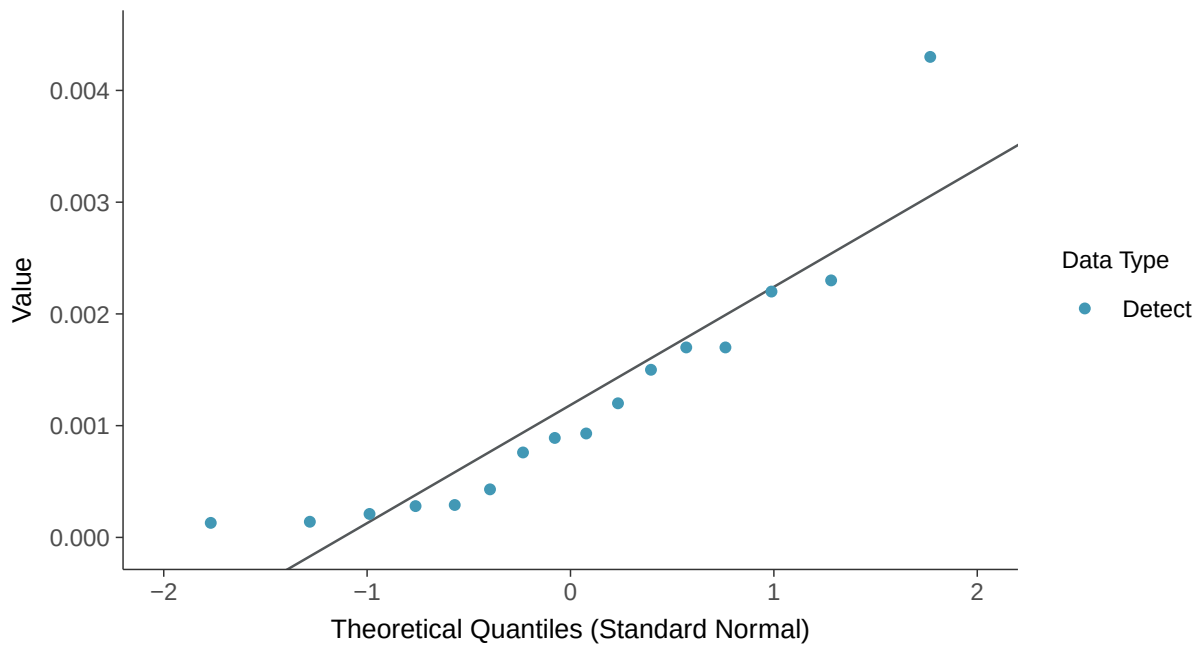
Boxplot by Season

Selenium, MW-12 (mg/L)



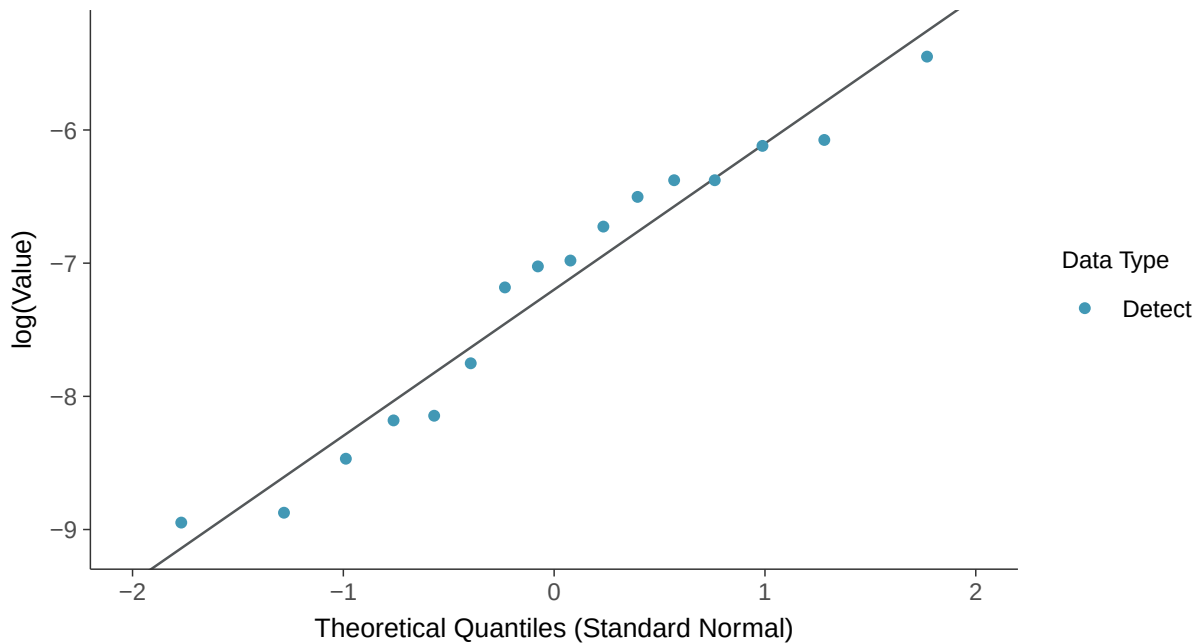
Normal Q-Q plot

Selenium, MW-12 (mg/L)



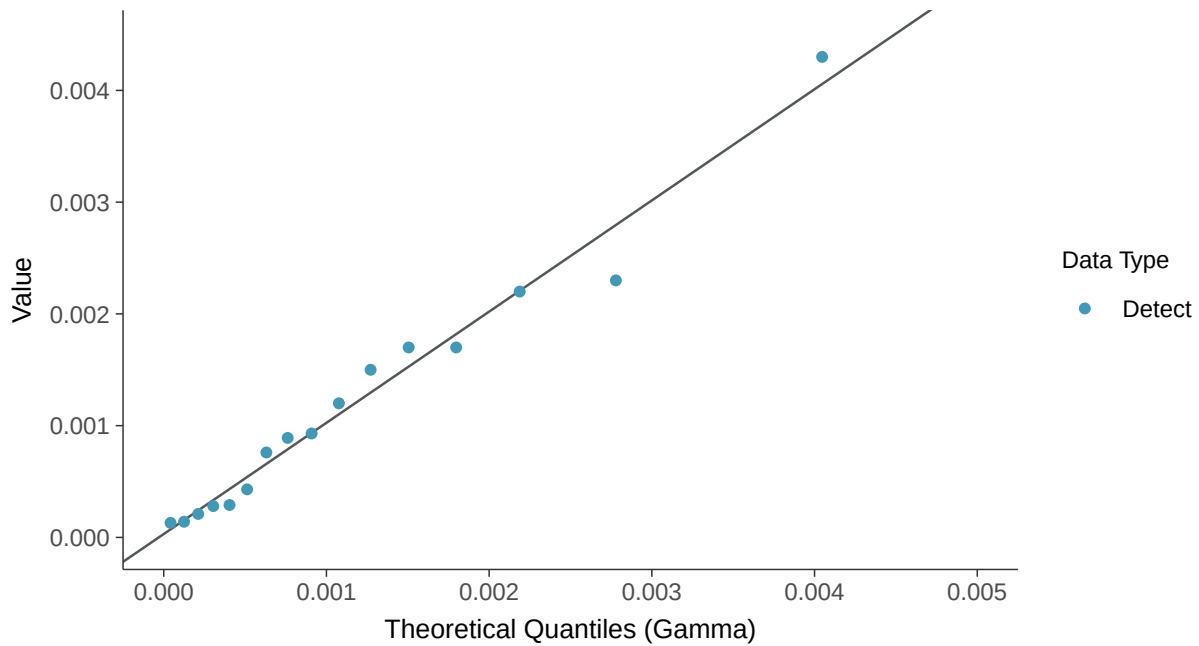
Lognormal Q-Q plot

Selenium, MW-12 (mg/L)



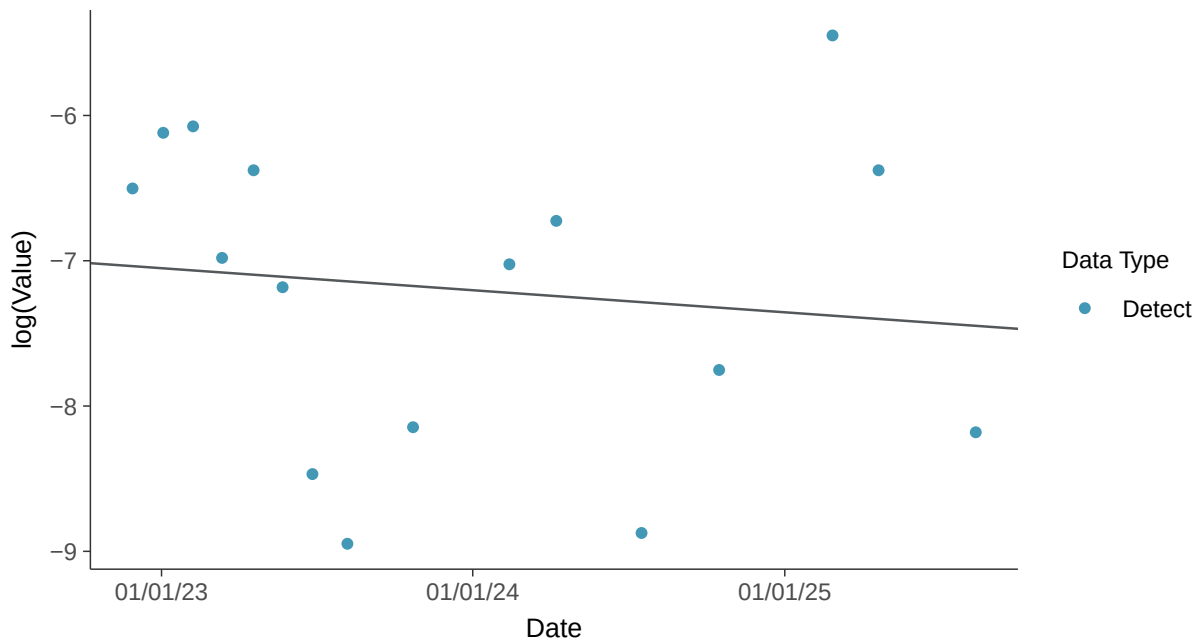
Gamma Q-Q plot

Selenium, MW-12 (mg/L)



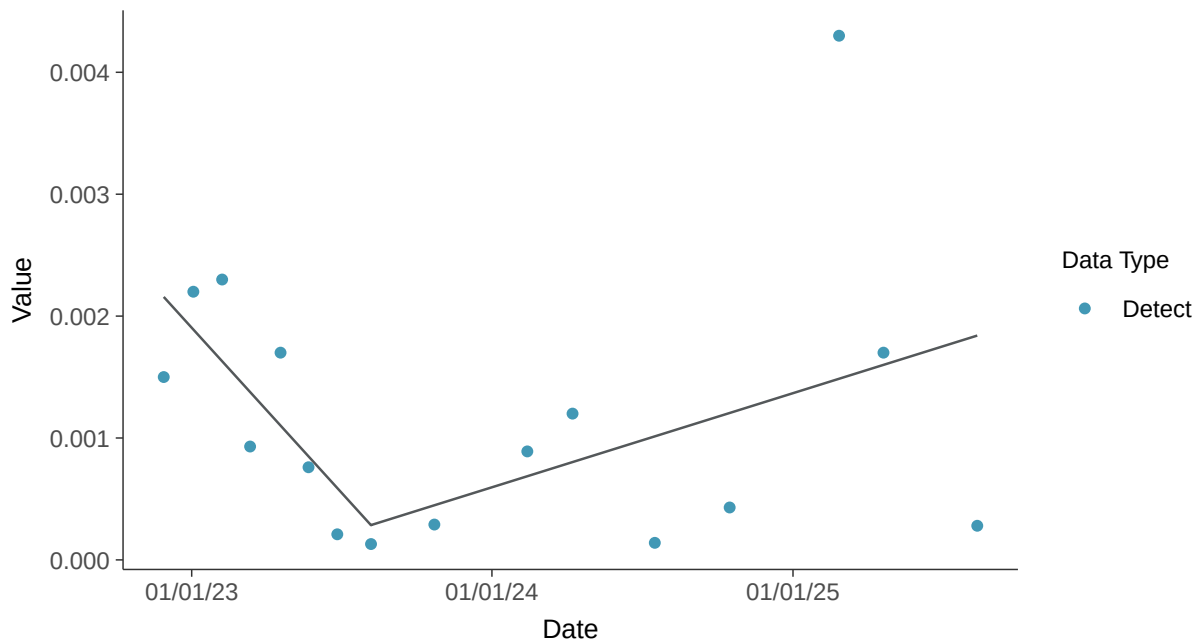
Trend Regression: Lognormal MLE

Selenium, MW-12 (mg/L)



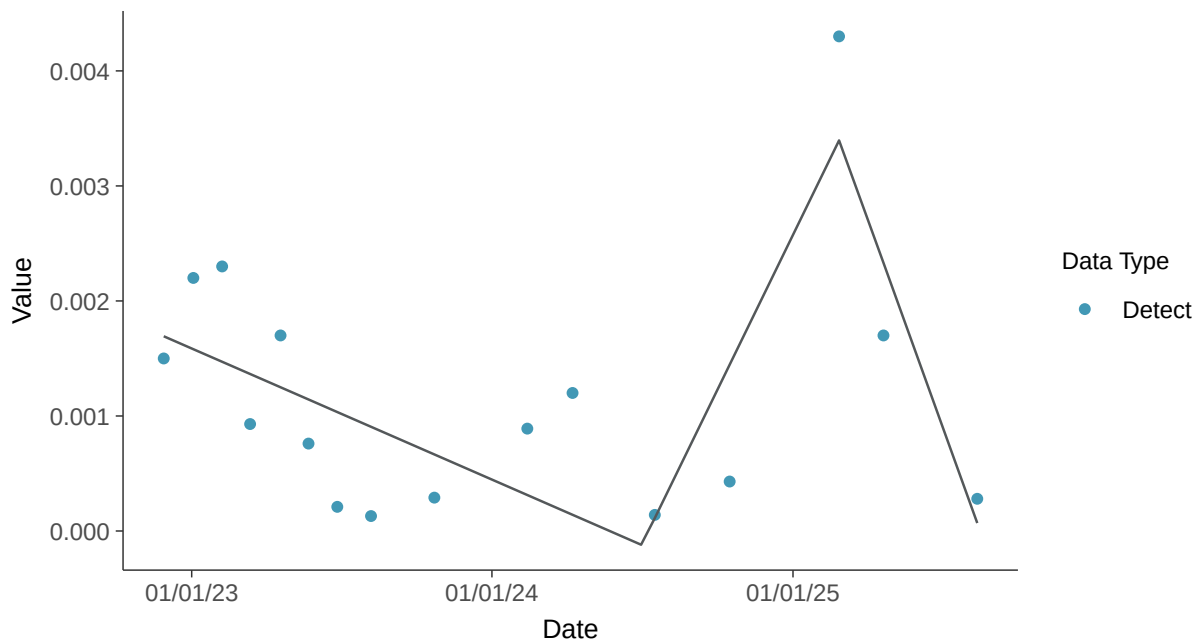
Trend Regression: Piecewise Linear-Linear

Selenium, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

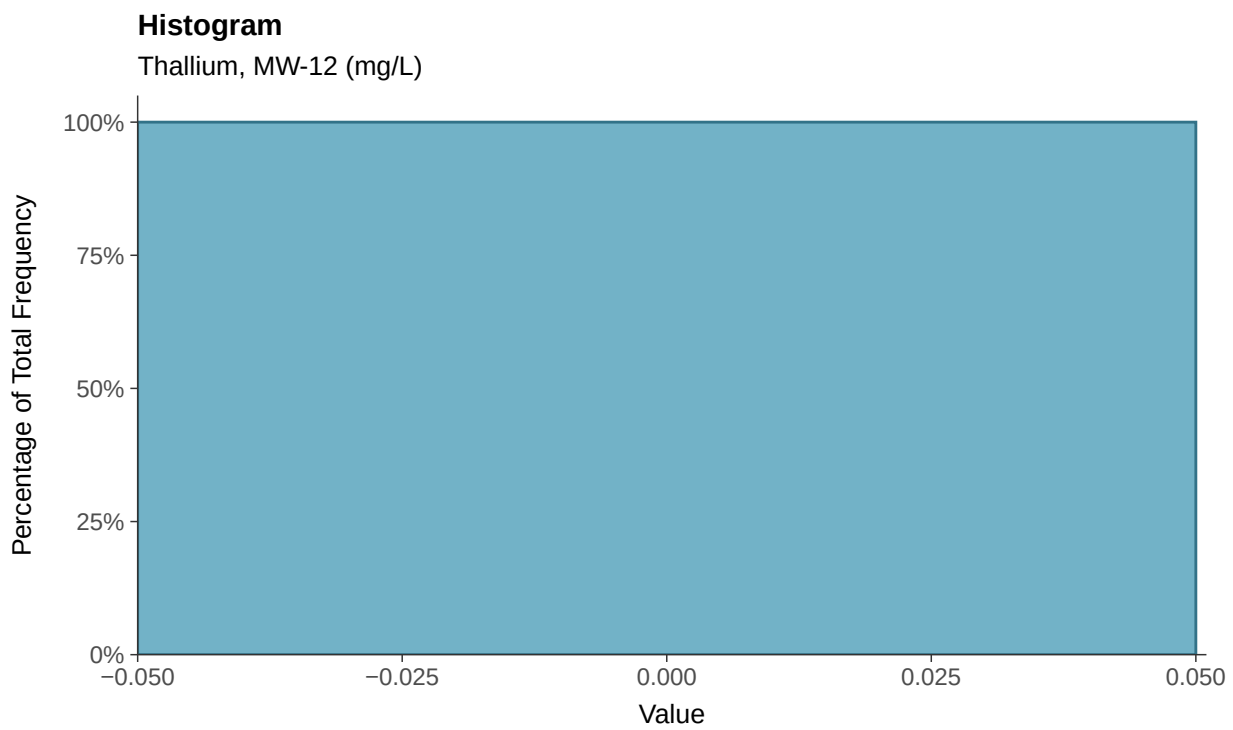
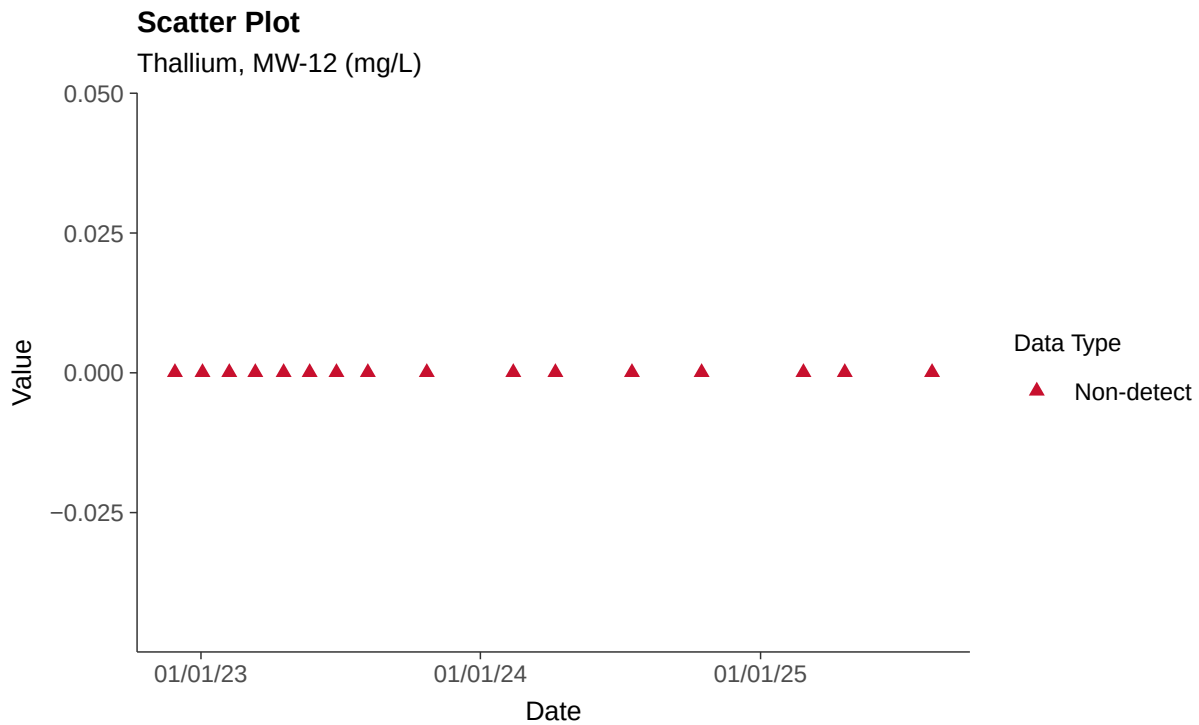
Selenium, MW-12 (mg/L)





Appendix IV: Thallium, MW-12

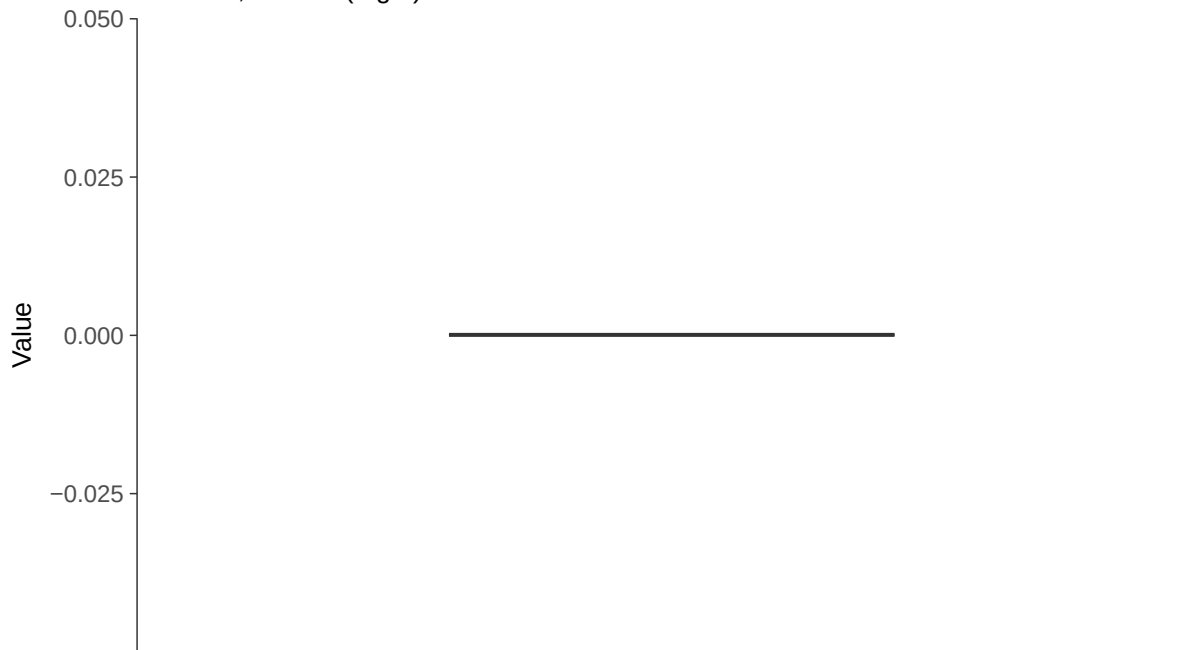
ID: 22_2_4_125





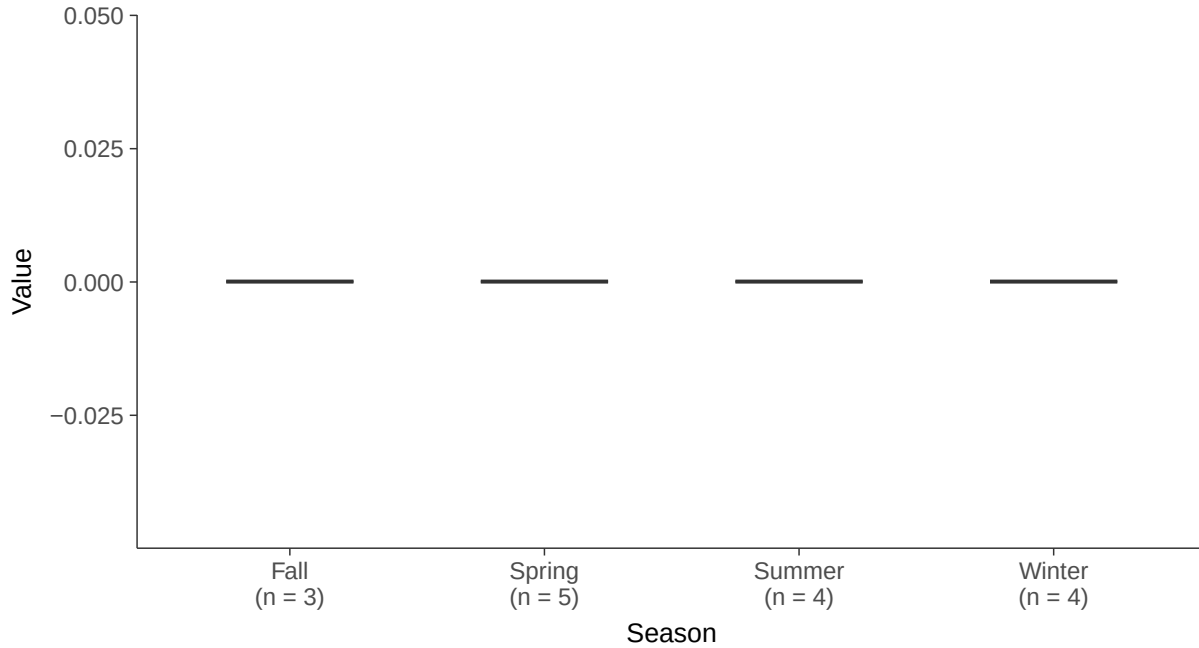
Boxplot

Thallium, MW-12 (mg/L)



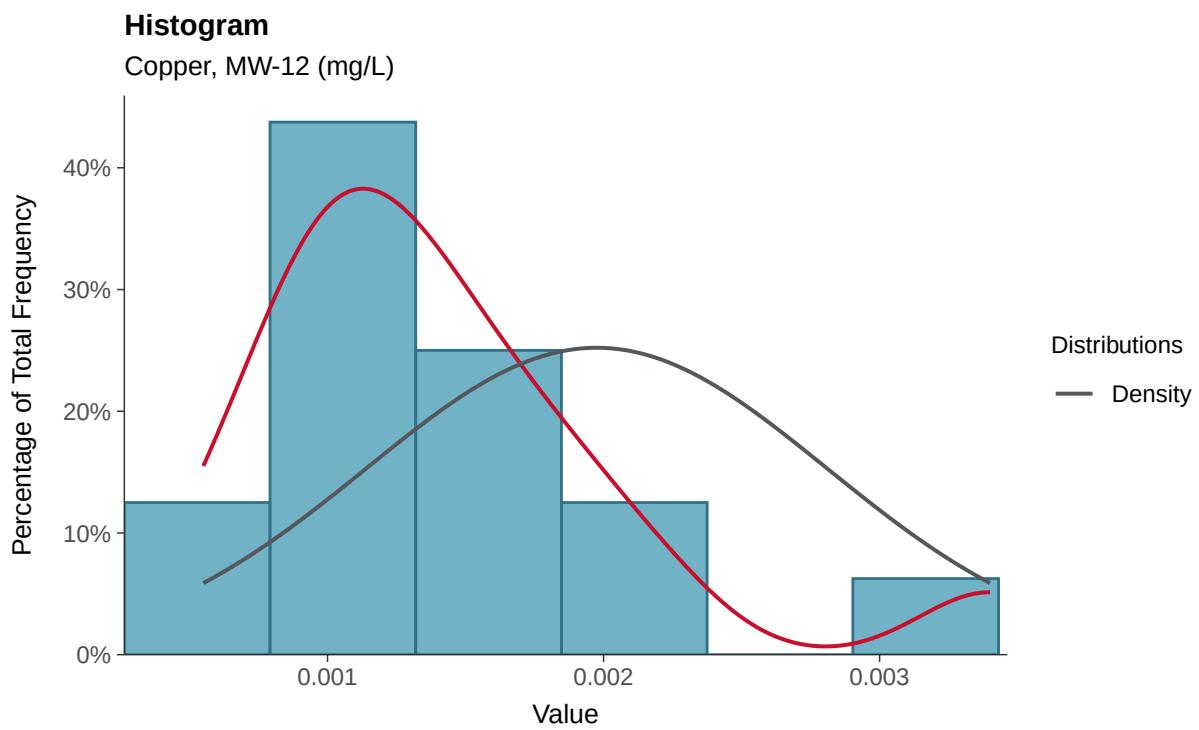
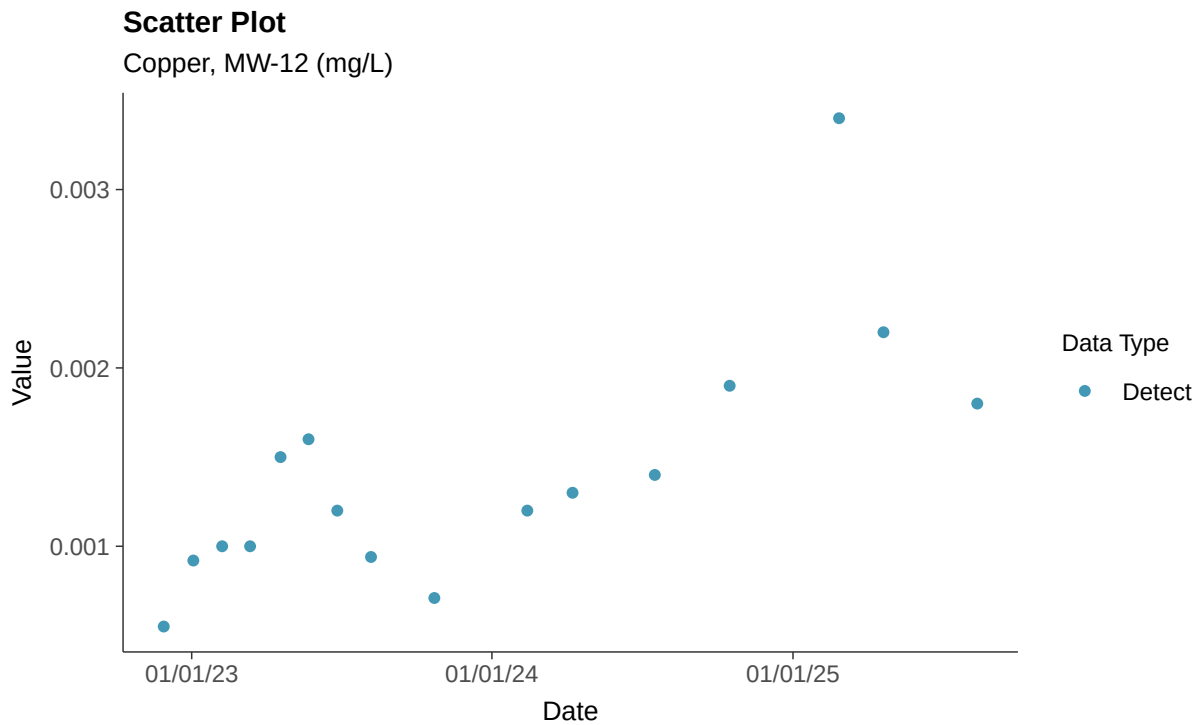
Boxplot by Season

Thallium, MW-12 (mg/L)



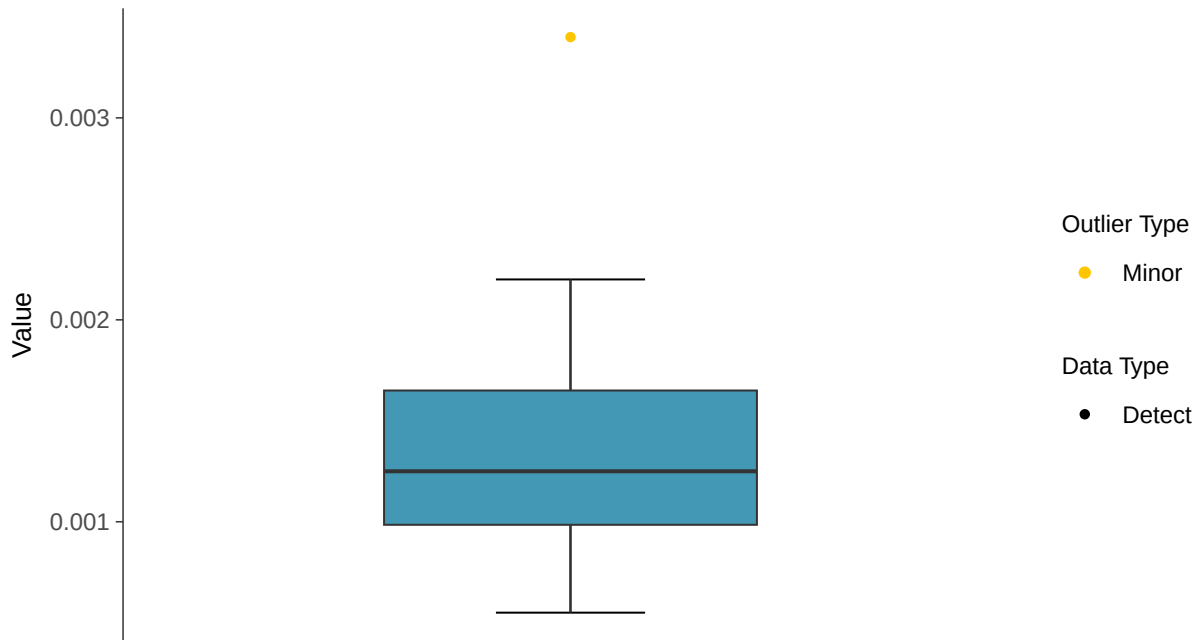
Part 115: Copper, MW-12

ID: 22_2_5_111



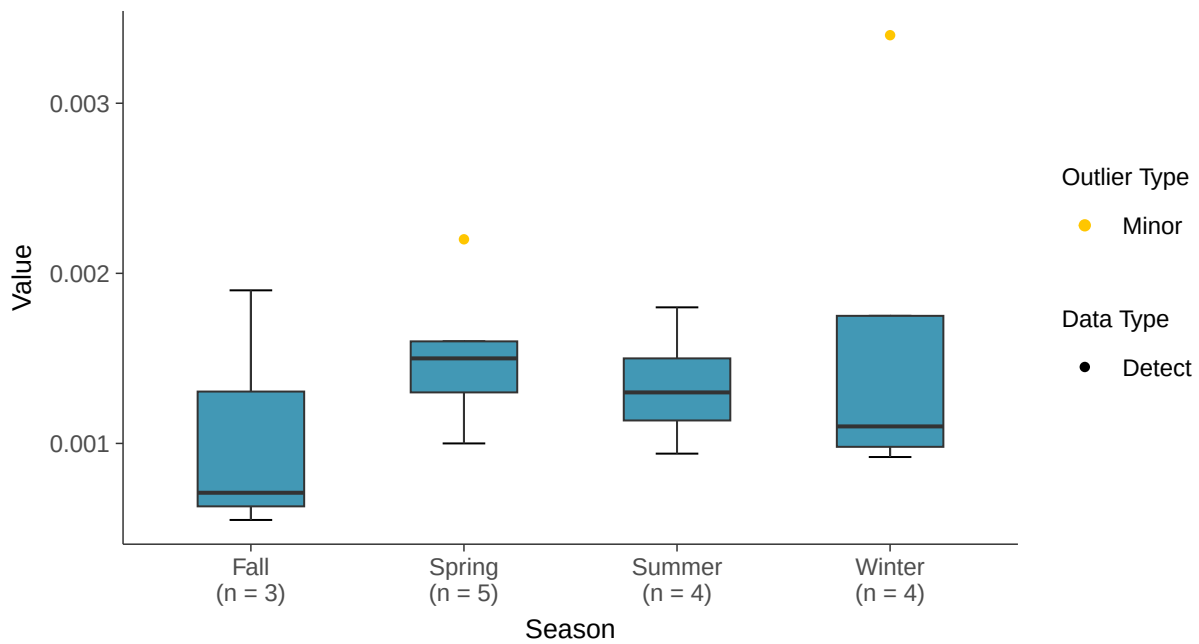
Boxplot

Copper, MW-12 (mg/L)



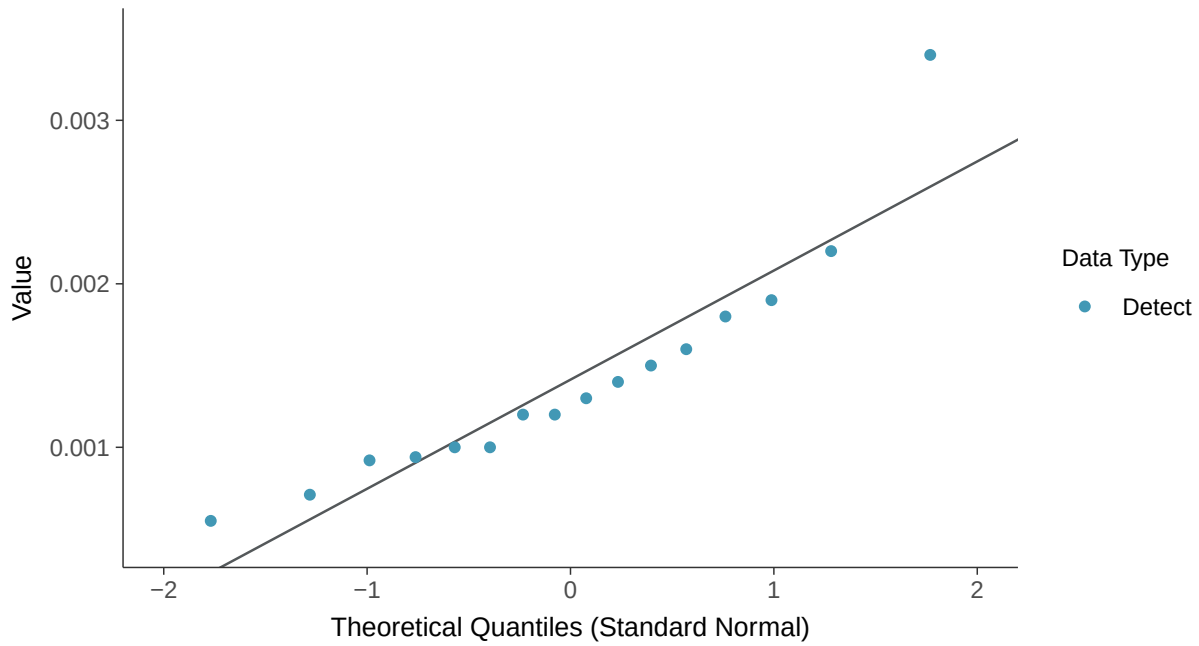
Boxplot by Season

Copper, MW-12 (mg/L)



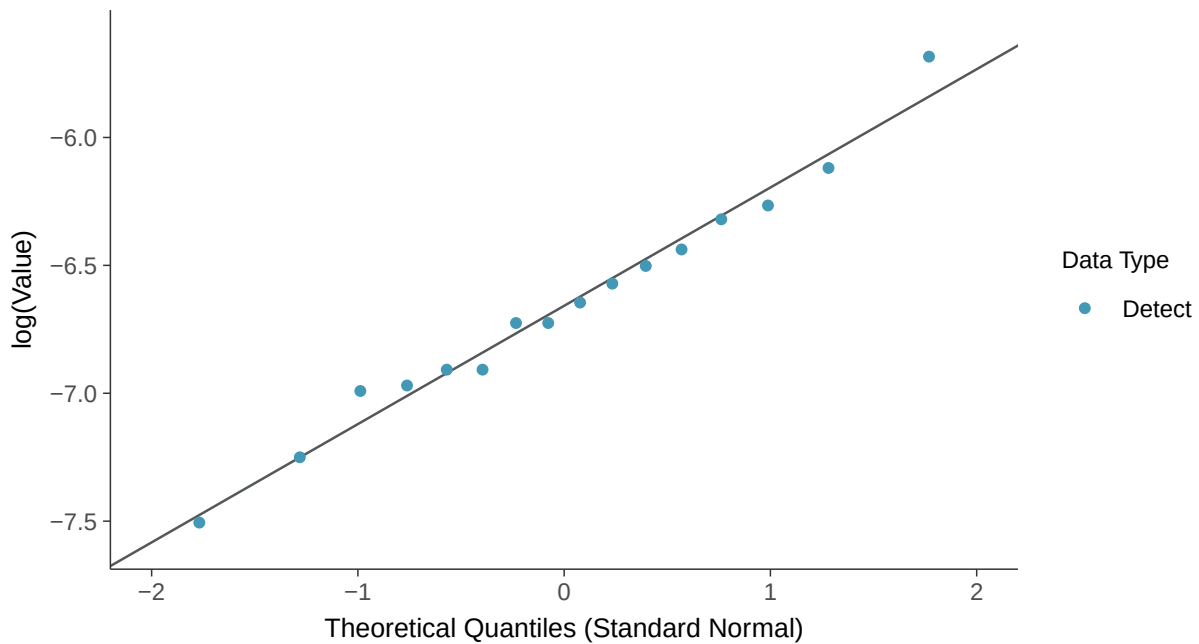
Normal Q-Q plot

Copper, MW-12 (mg/L)

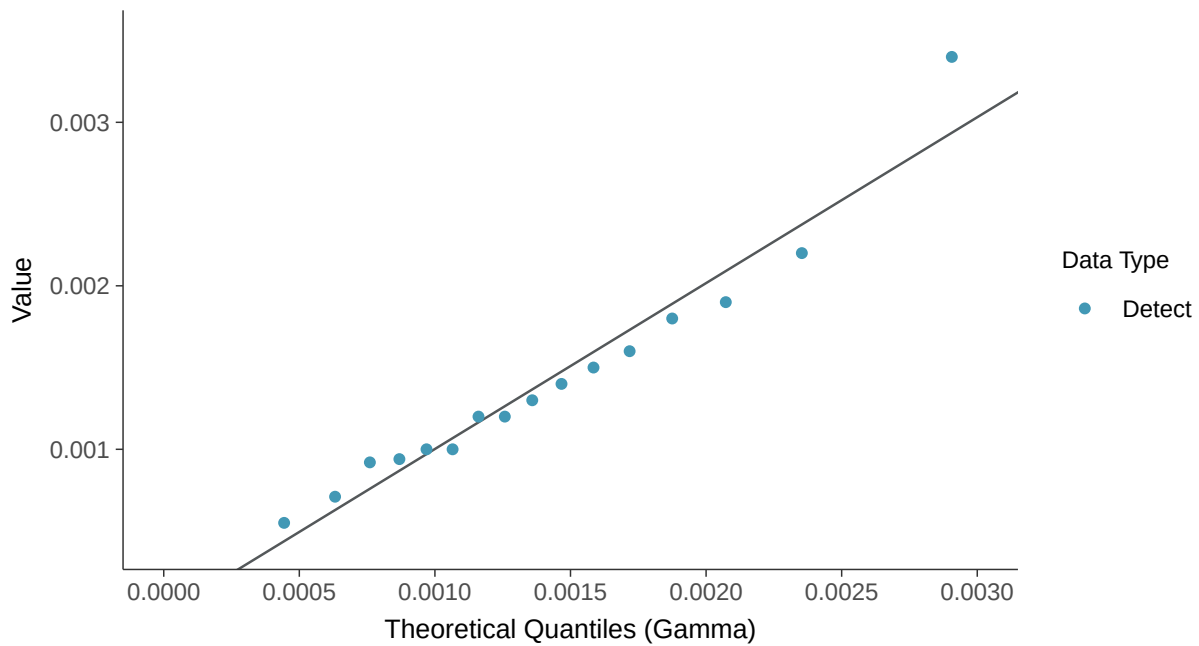


Lognormal Q-Q plot

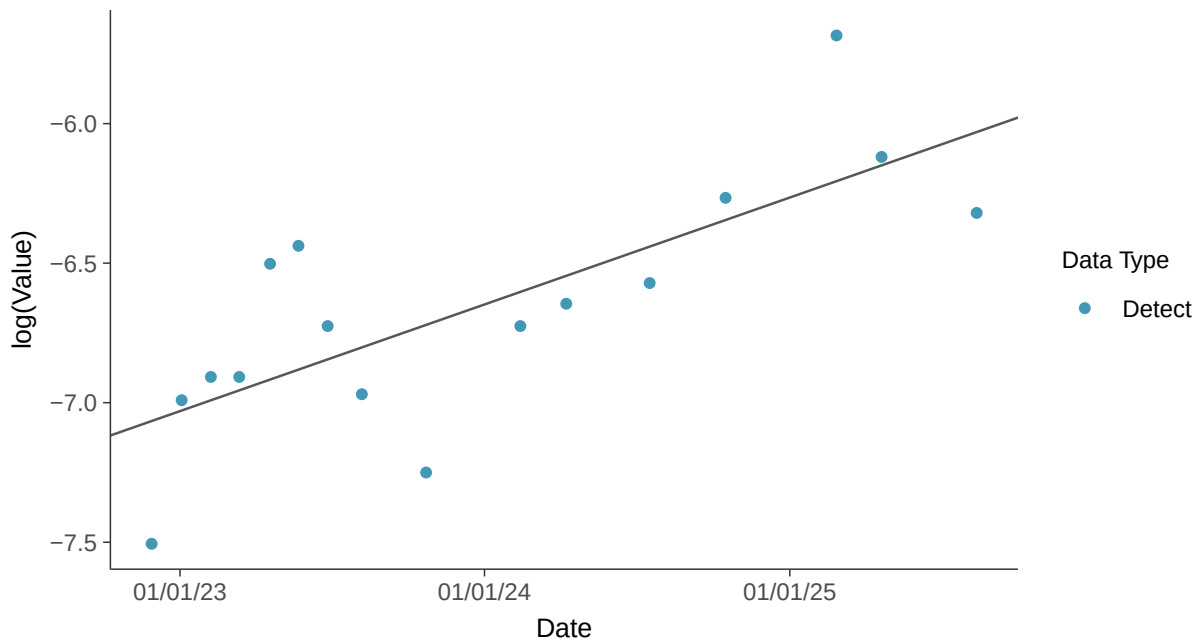
Copper, MW-12 (mg/L)

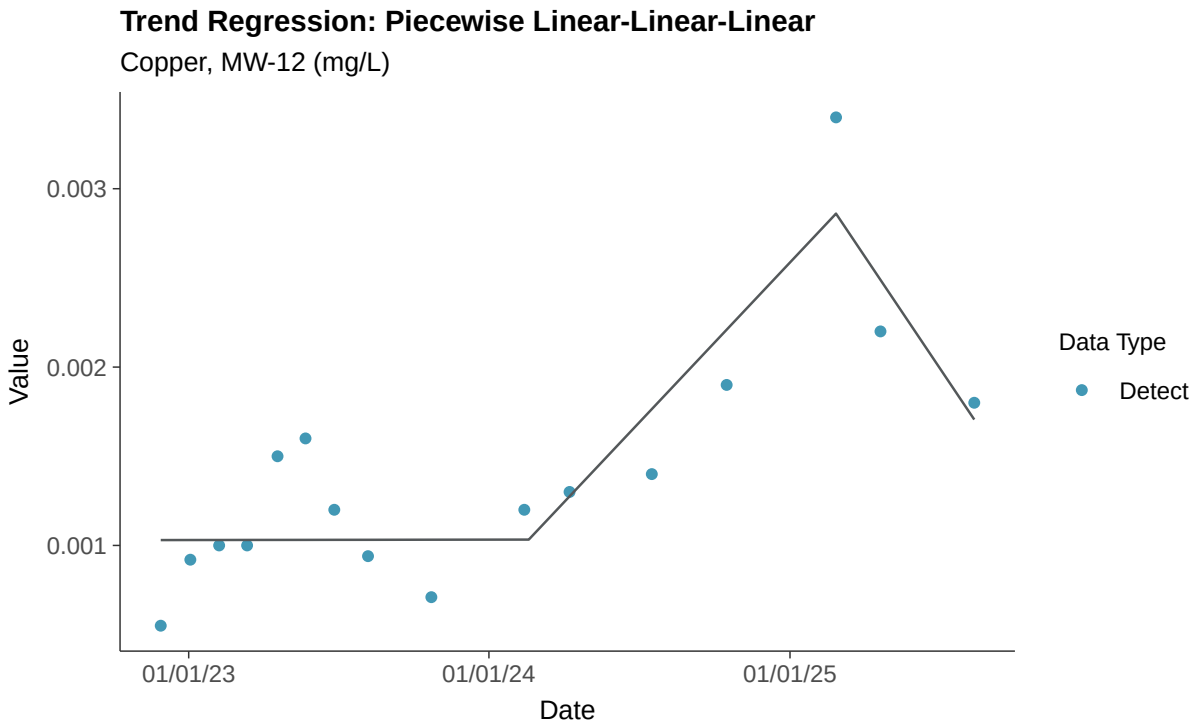
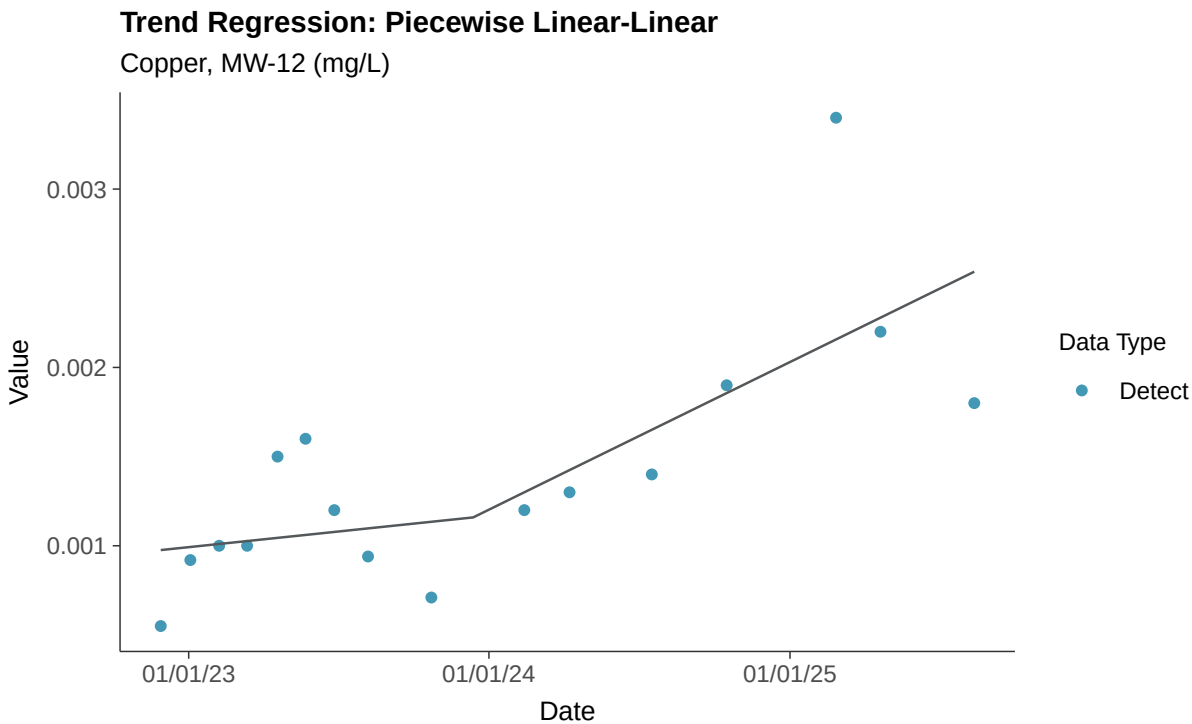


Gamma Q-Q plot
Copper, MW-12 (mg/L)



Trend Regression: Lognormal MLE
Copper, MW-12 (mg/L)

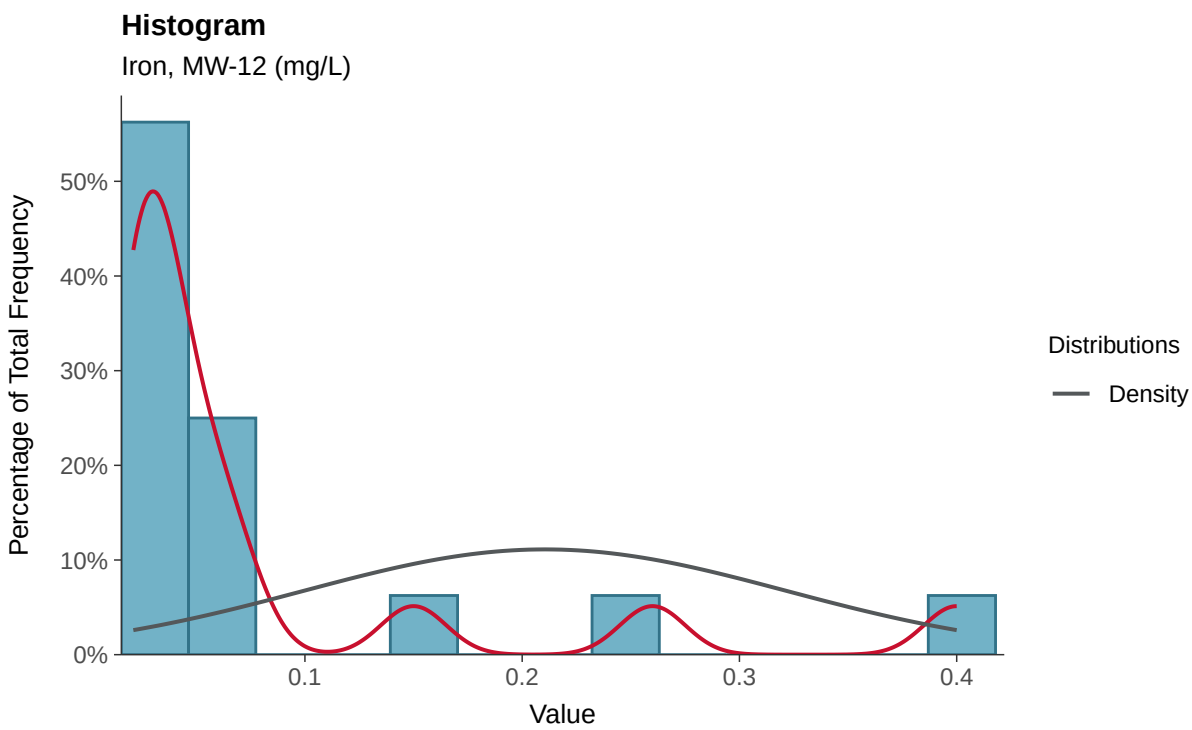
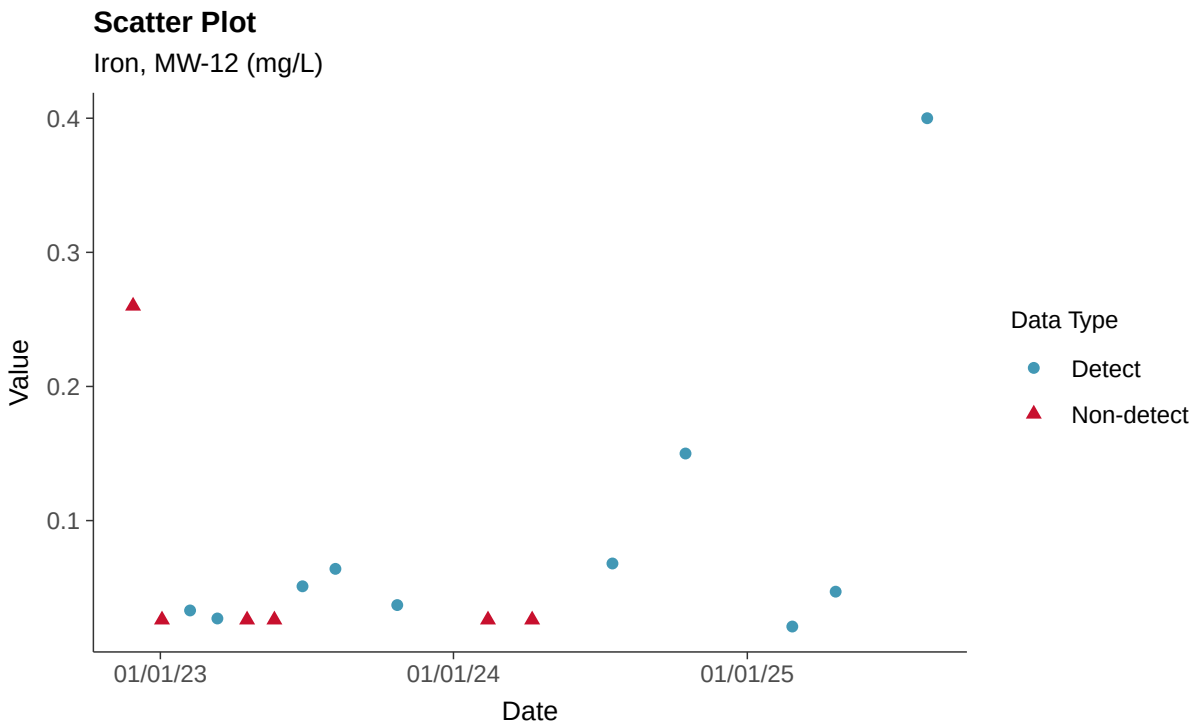


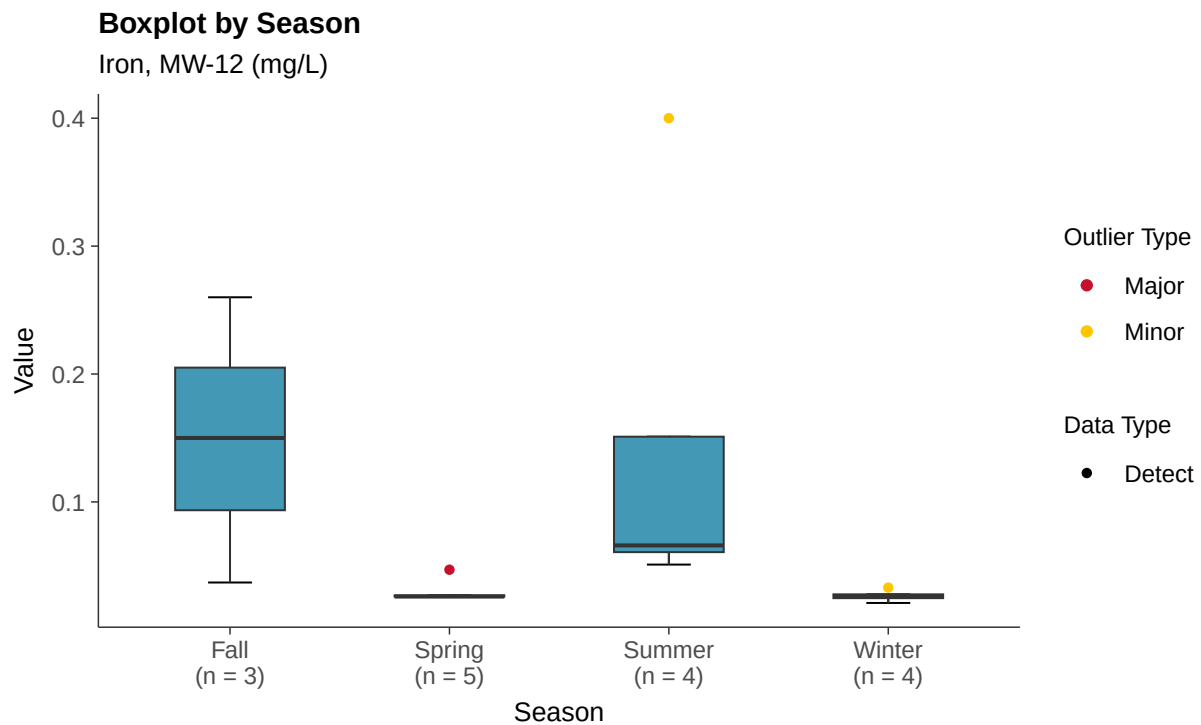
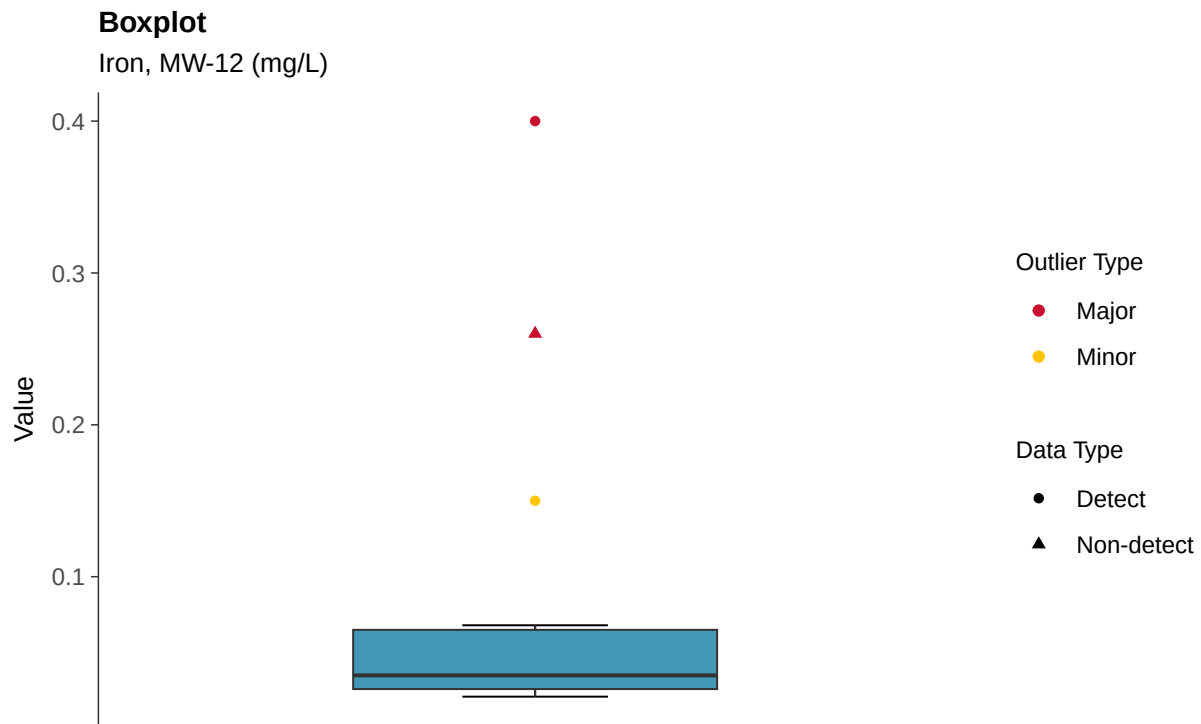




Part 115: Iron, MW-12

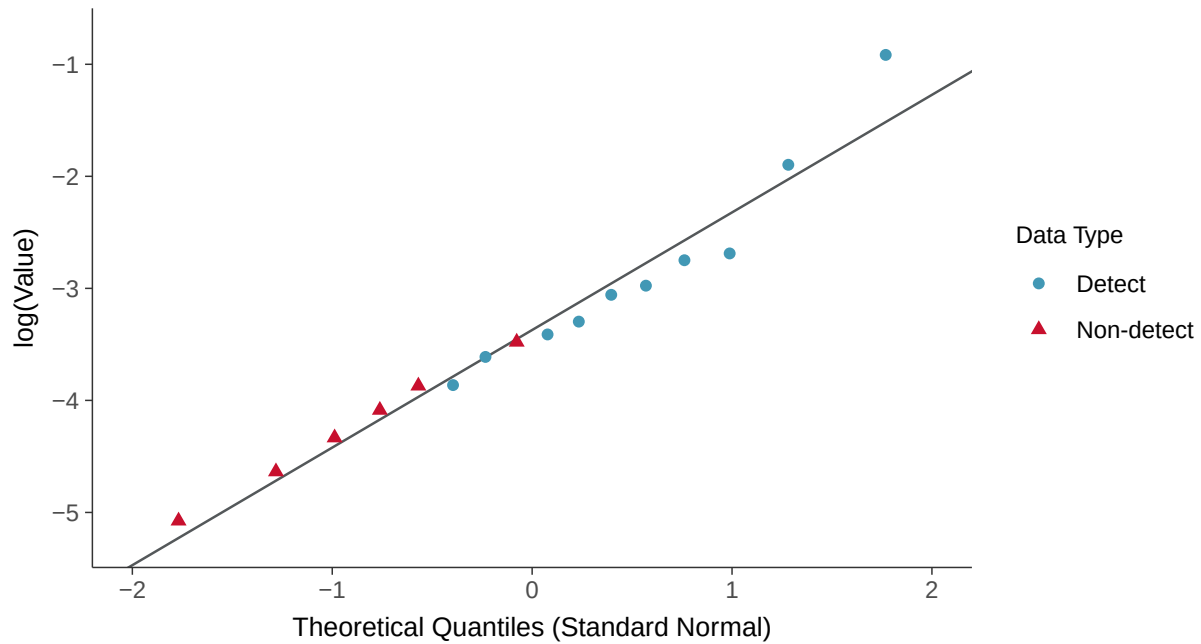
ID: 22_2_5_114





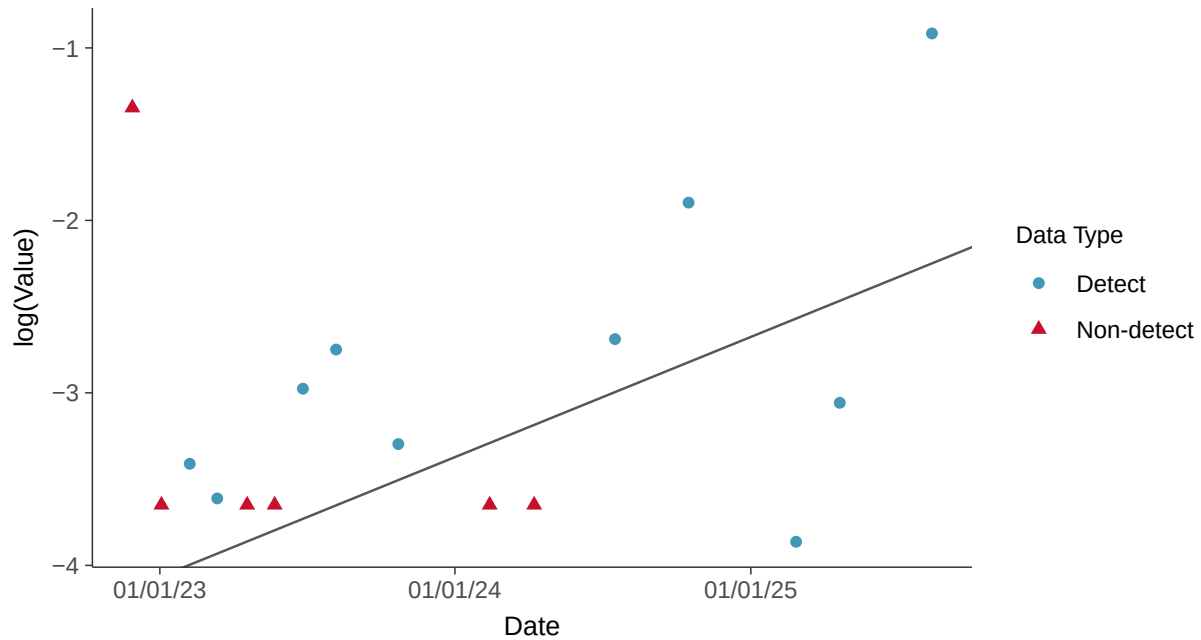
Lognormal Q-Q plot using ROS Imputed Estimates

Iron, MW-12 (mg/L)



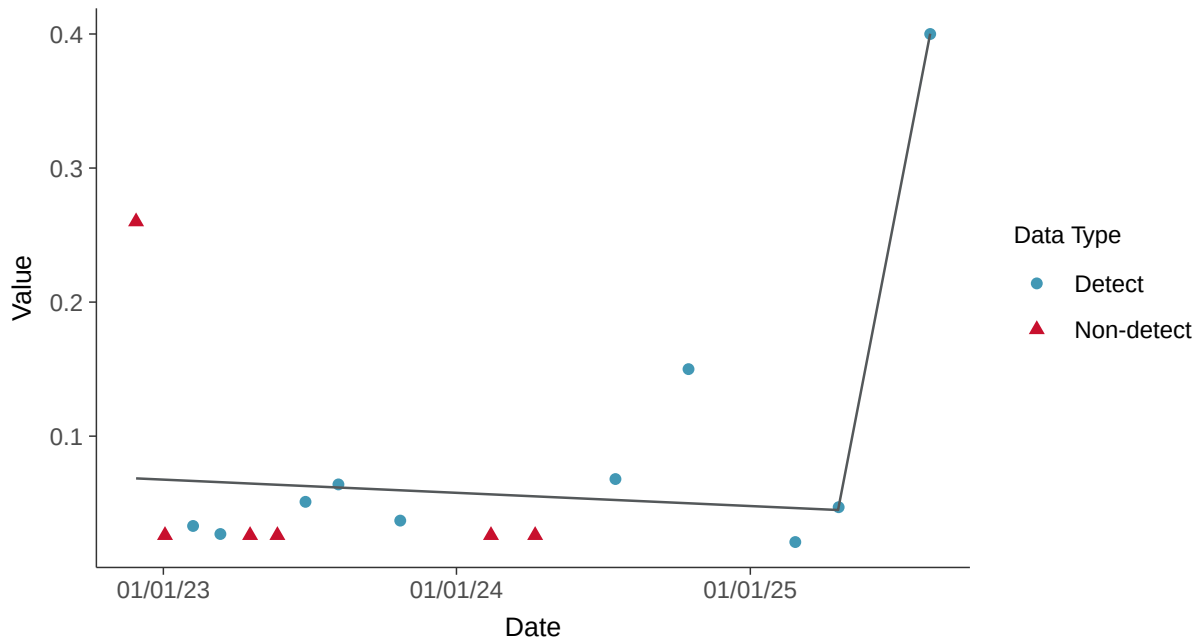
Trend Regression: Lognormal MLE

Iron, MW-12 (mg/L)



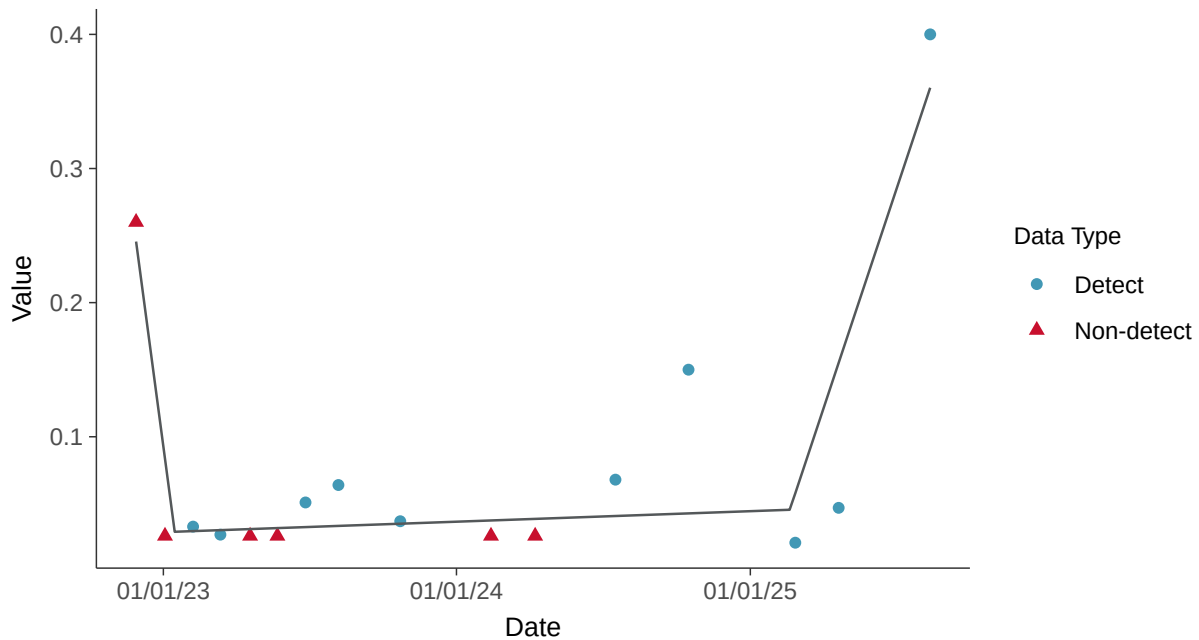
Trend Regression: Piecewise Linear-Linear

Iron, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-12 (mg/L)

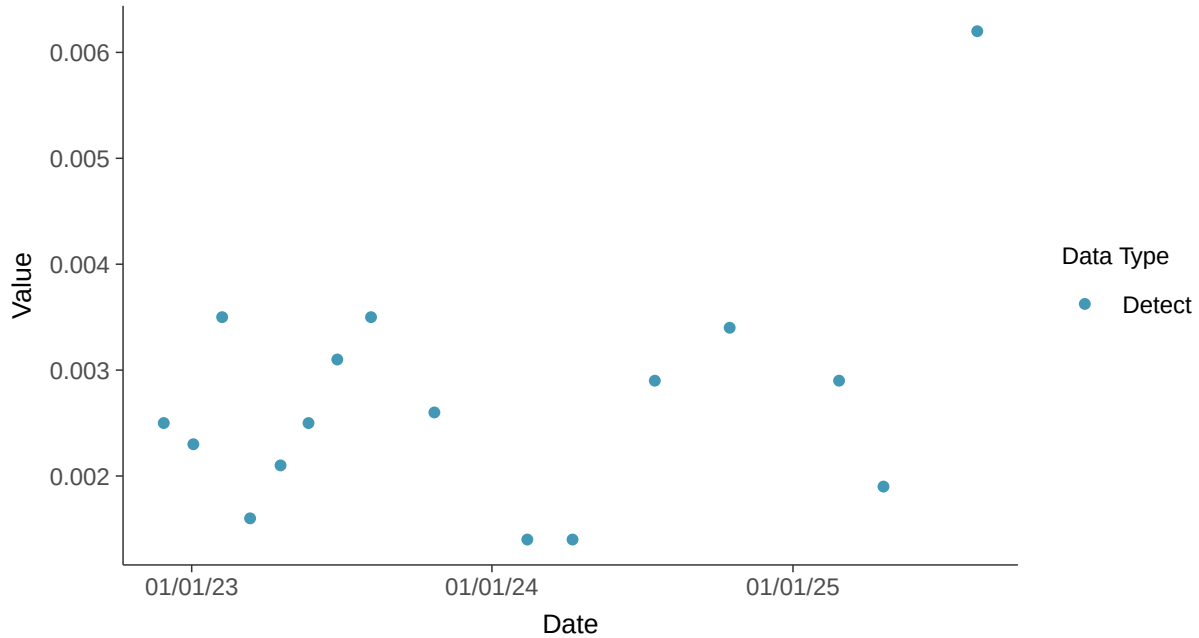


Part 115: Nickel, MW-12

ID: 22_2_5_119

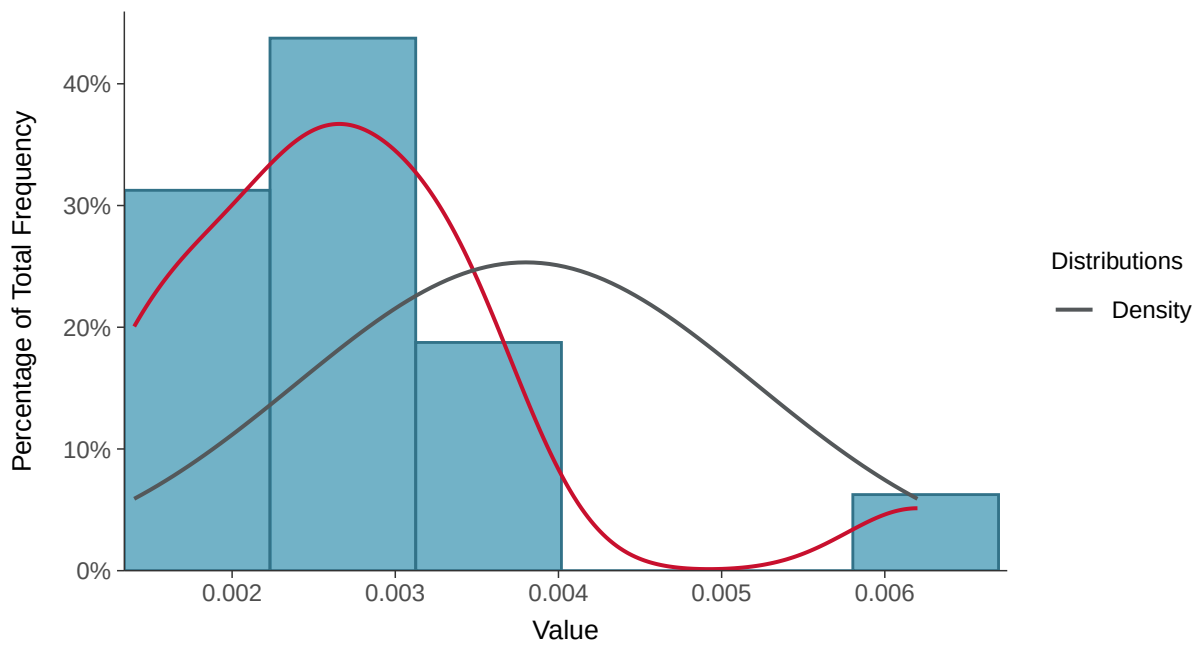
Scatter Plot

Nickel, MW-12 (mg/L)



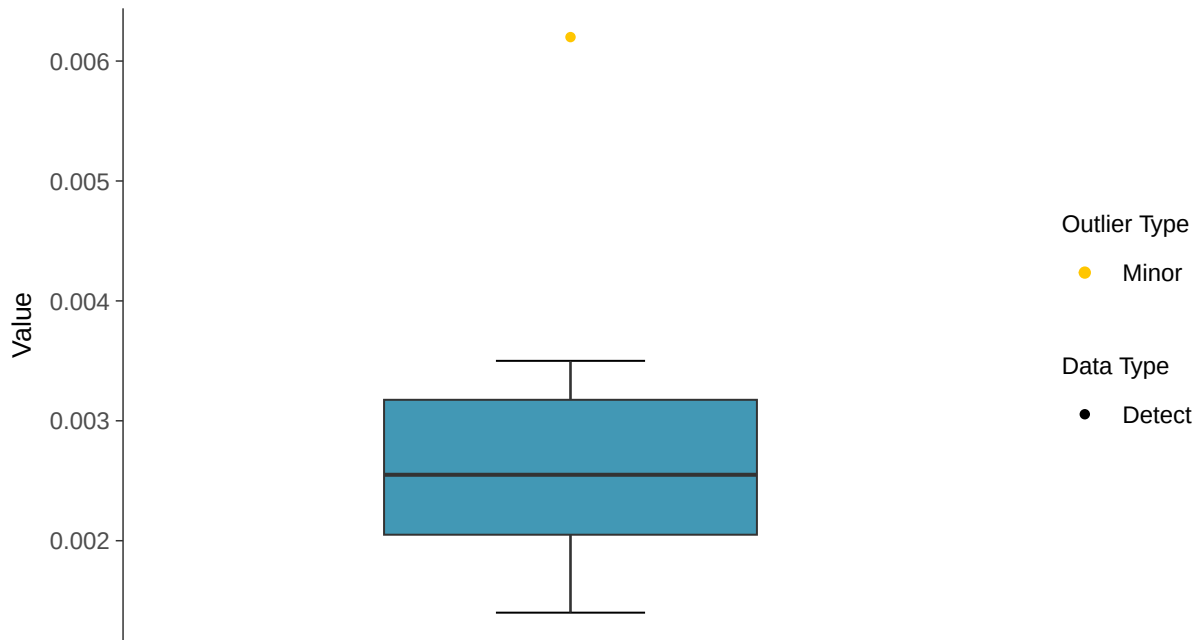
Histogram

Nickel, MW-12 (mg/L)



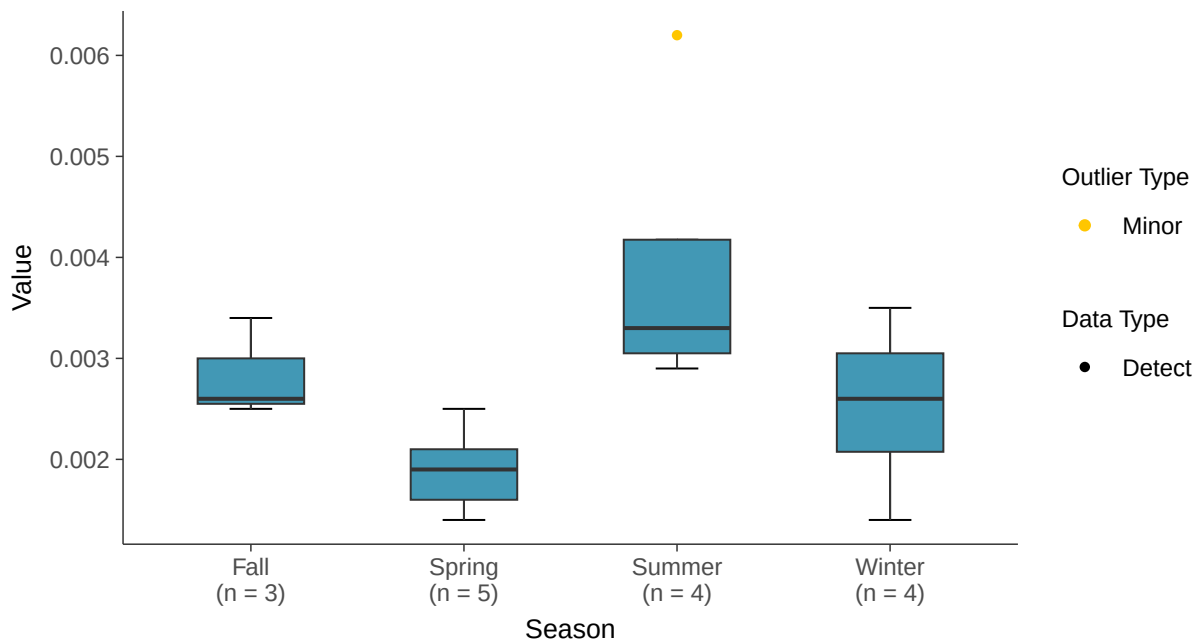
Boxplot

Nickel, MW-12 (mg/L)



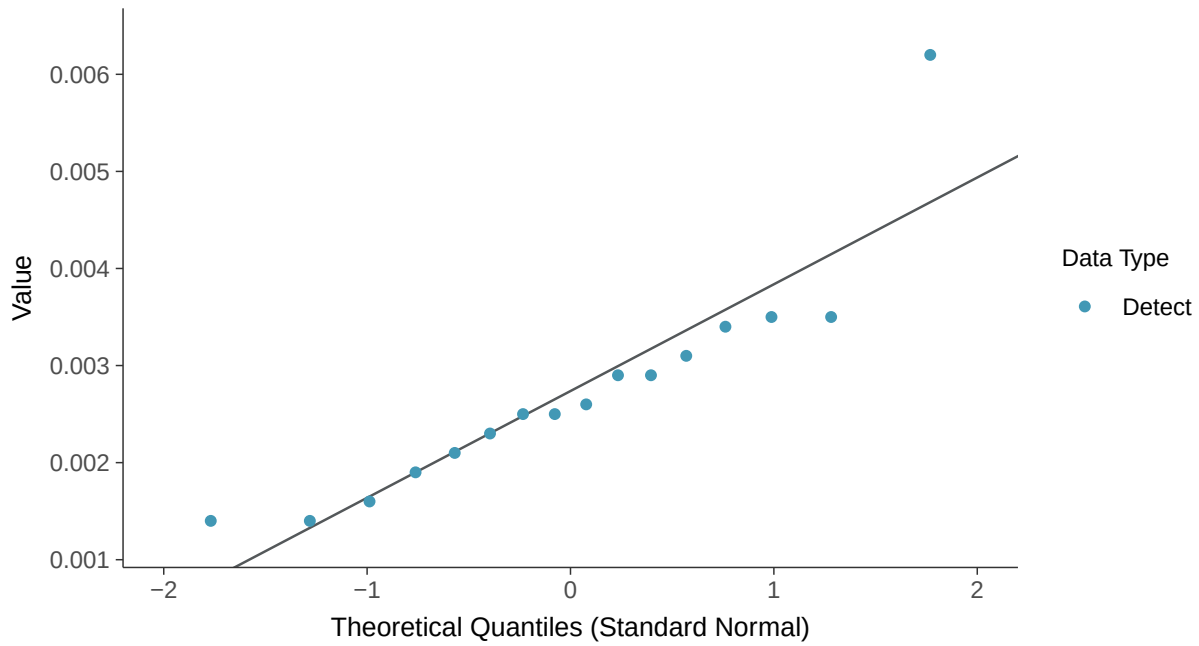
Boxplot by Season

Nickel, MW-12 (mg/L)



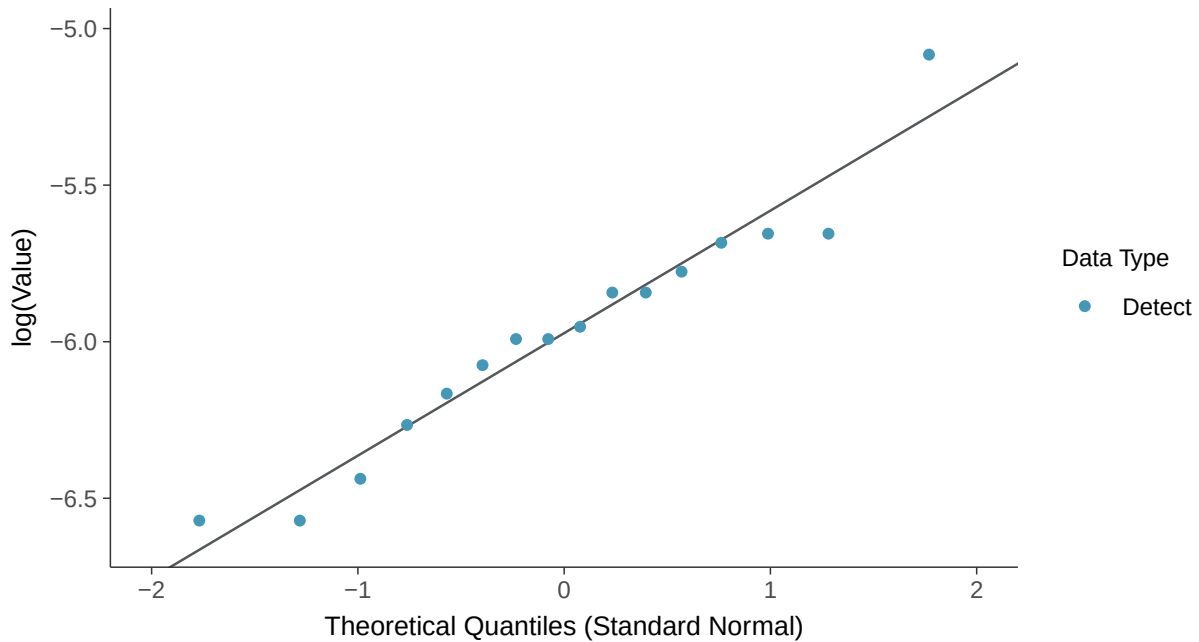
Normal Q-Q plot

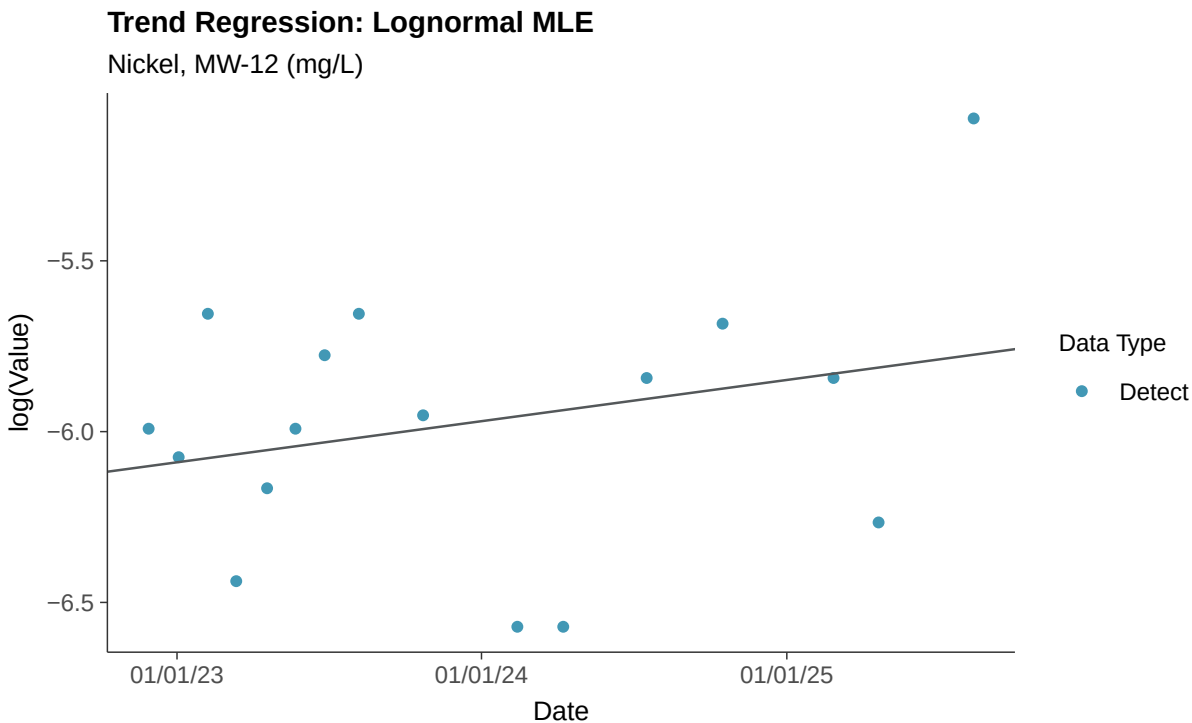
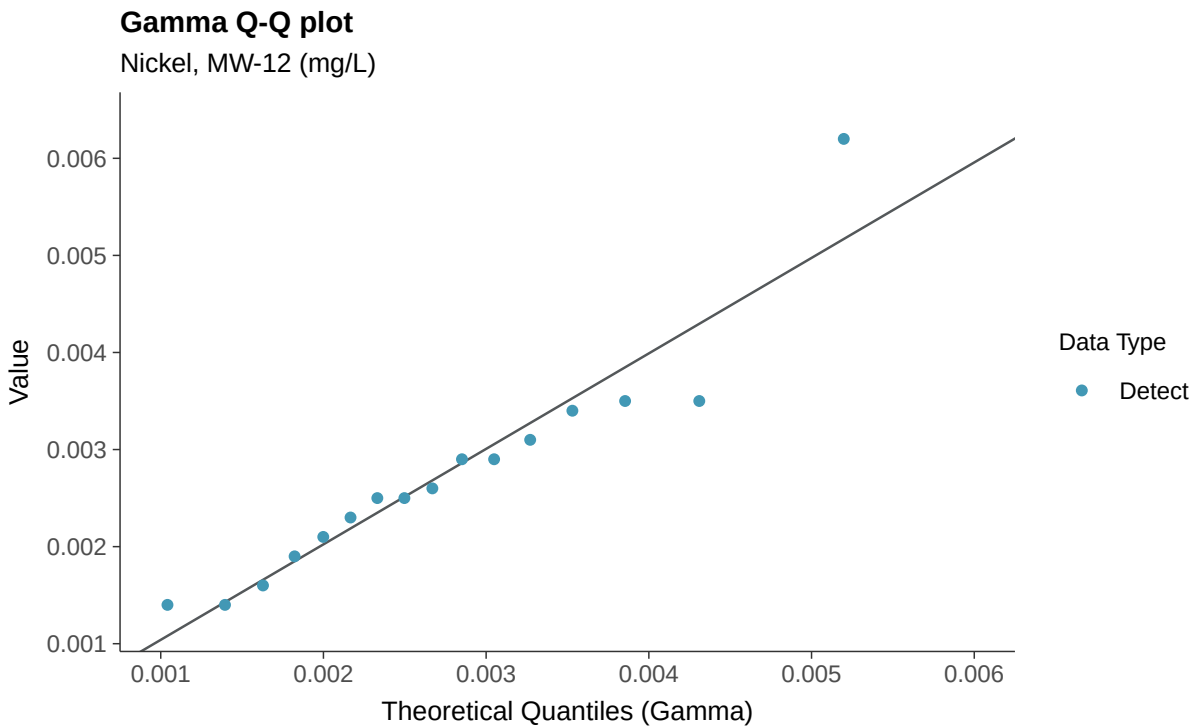
Nickel, MW-12 (mg/L)



Lognormal Q-Q plot

Nickel, MW-12 (mg/L)

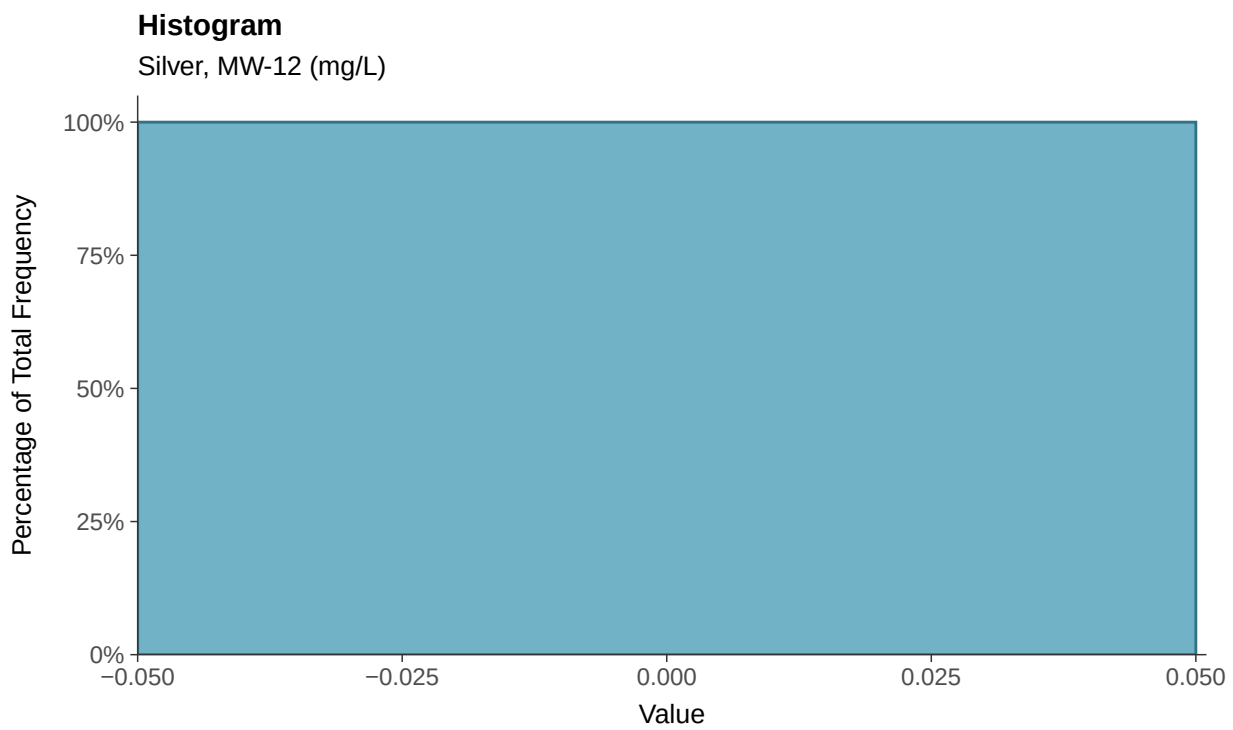
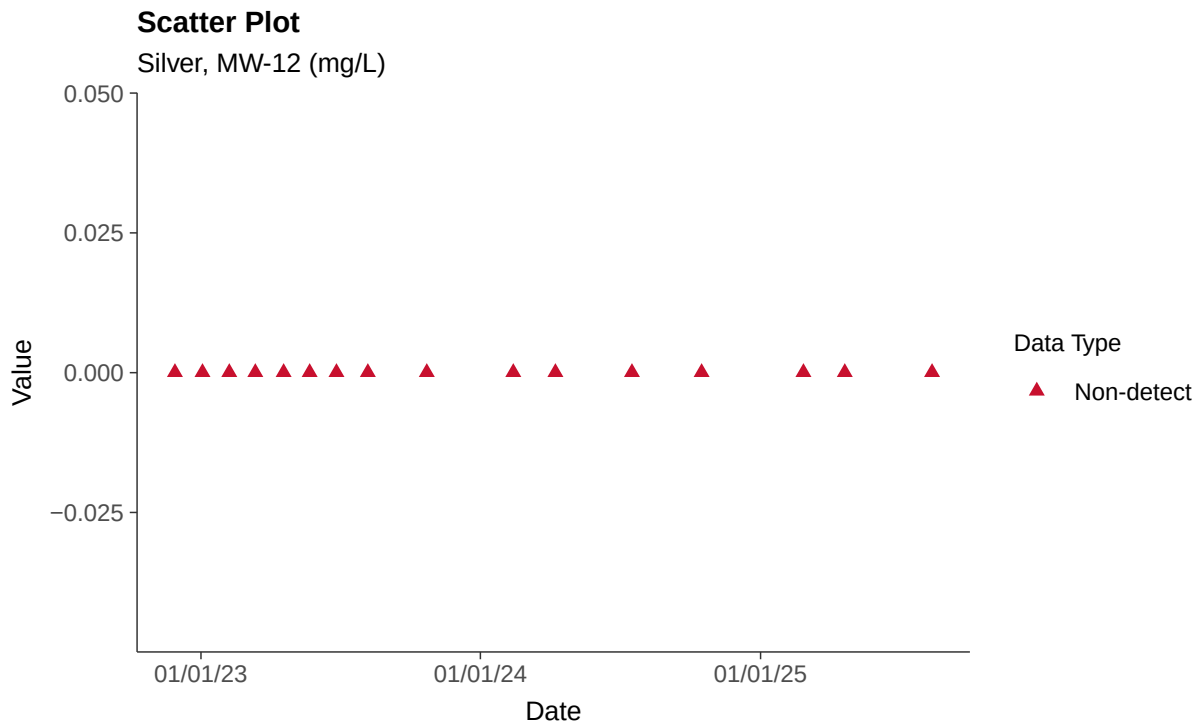


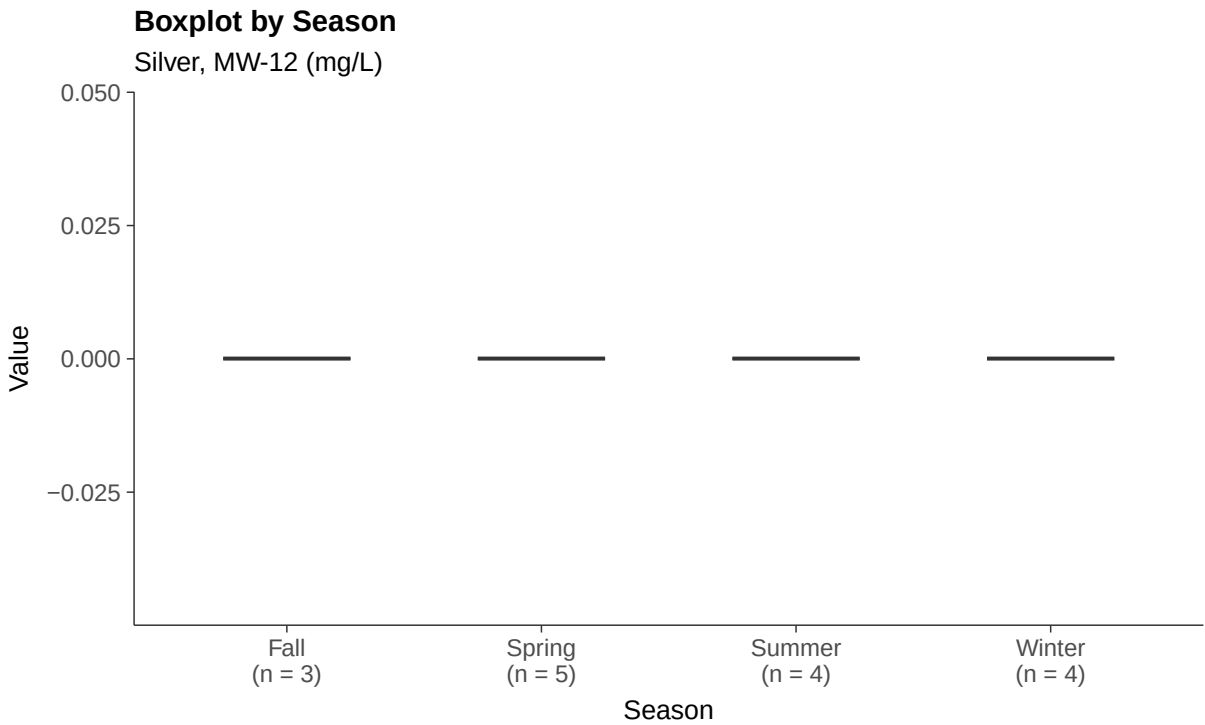
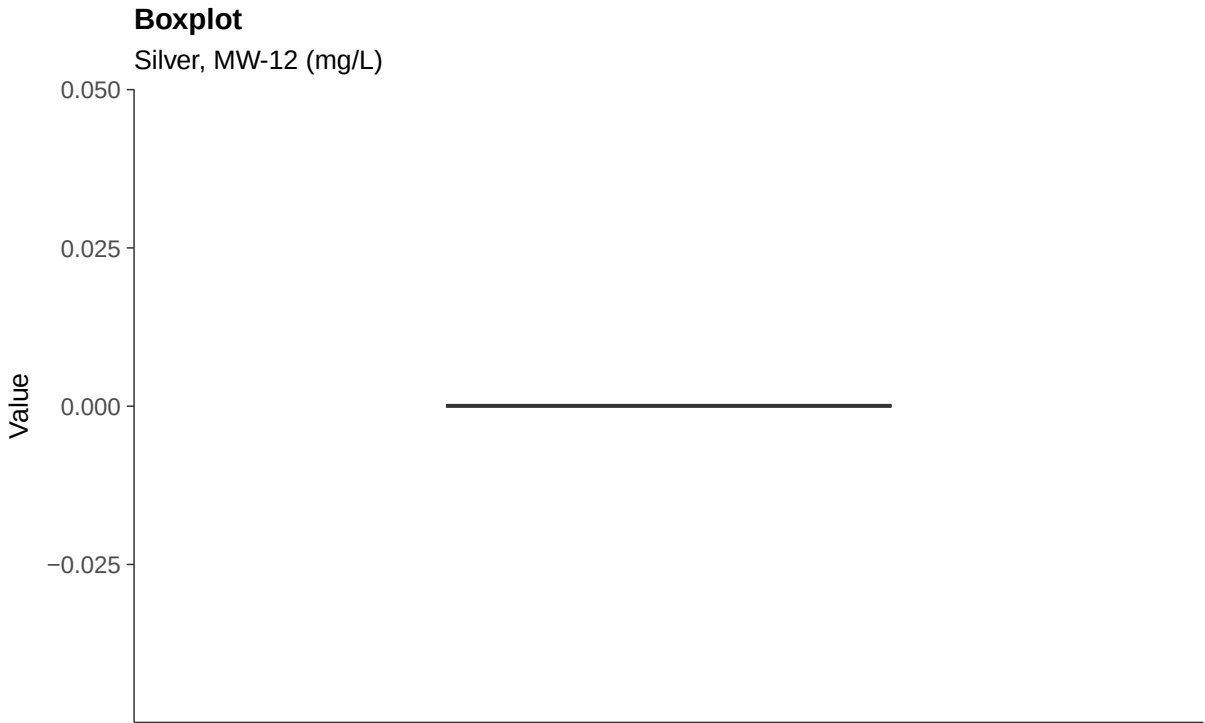


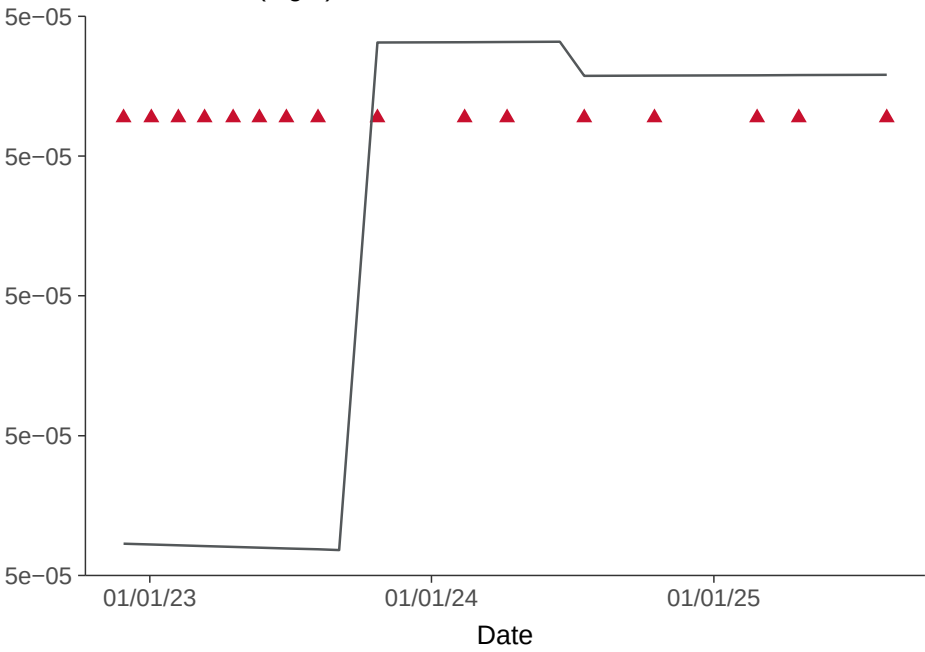


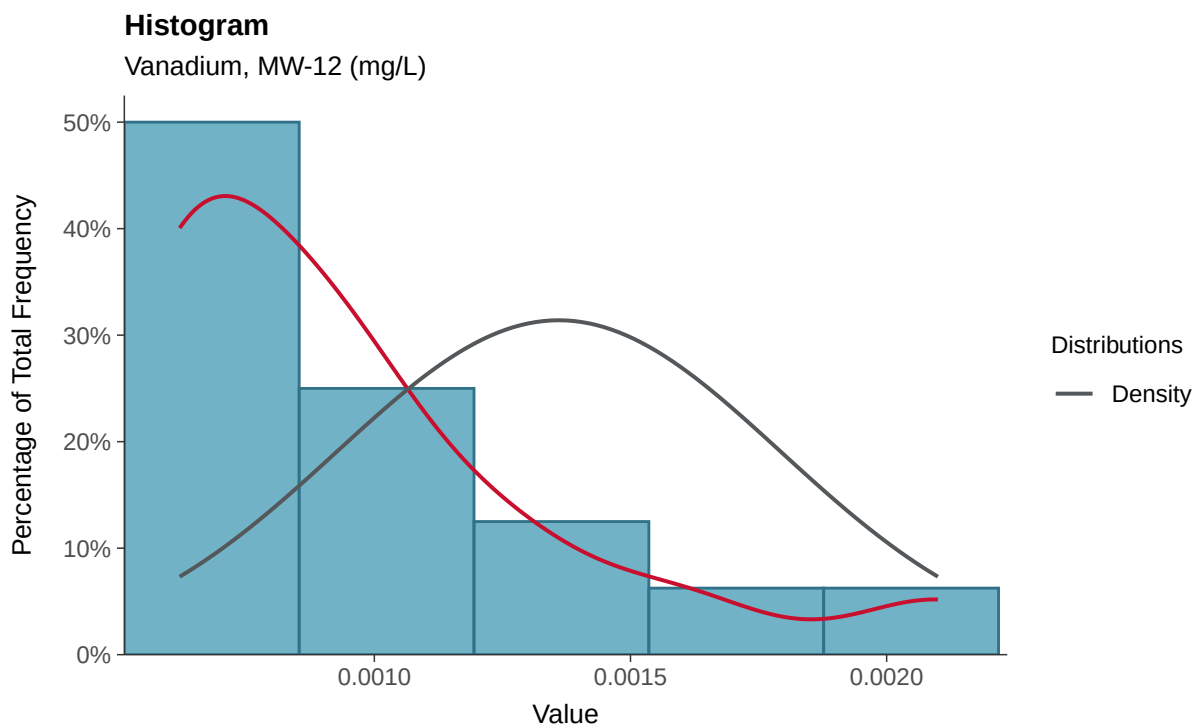
Part 115: Silver, MW-12

ID: 22_2_5_123



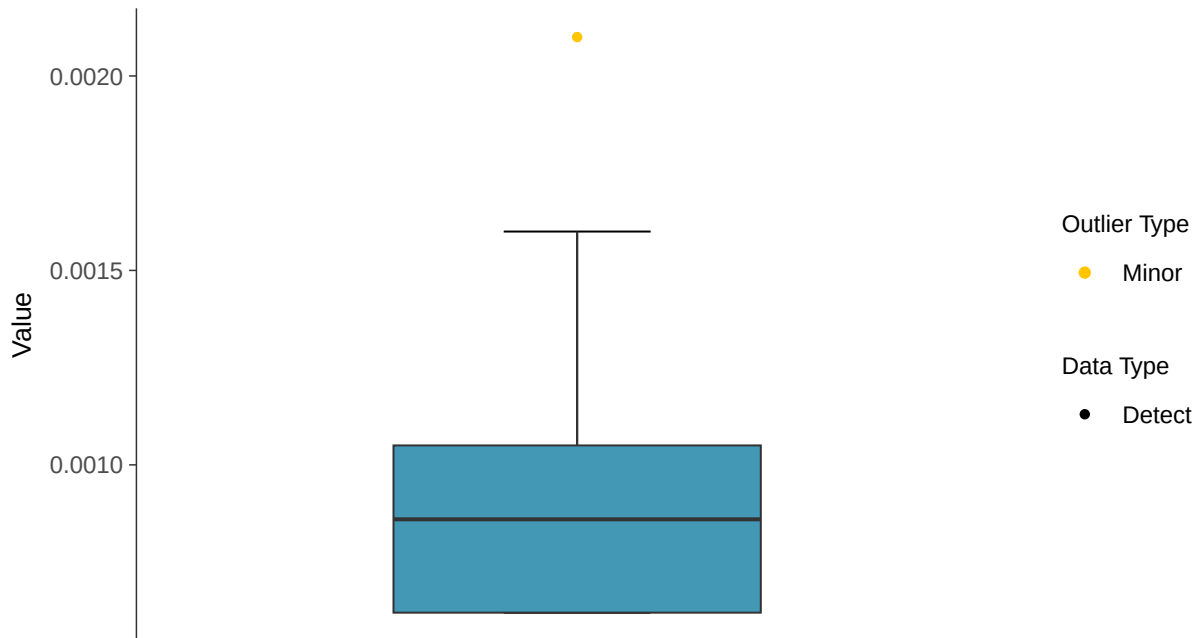






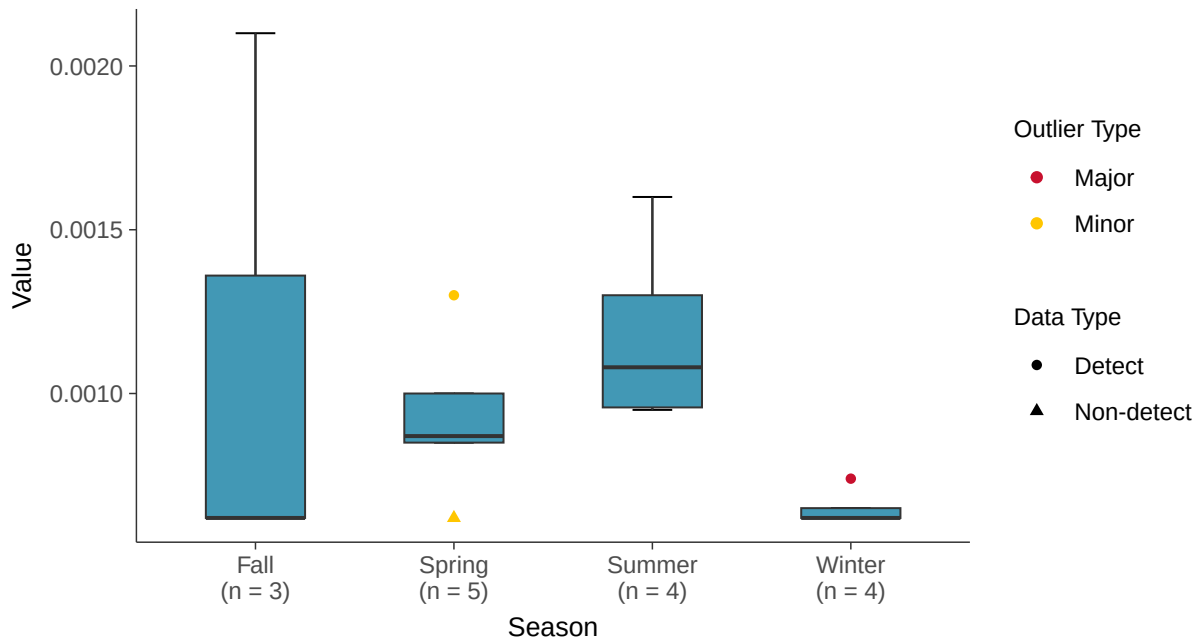
Boxplot

Vanadium, MW-12 (mg/L)



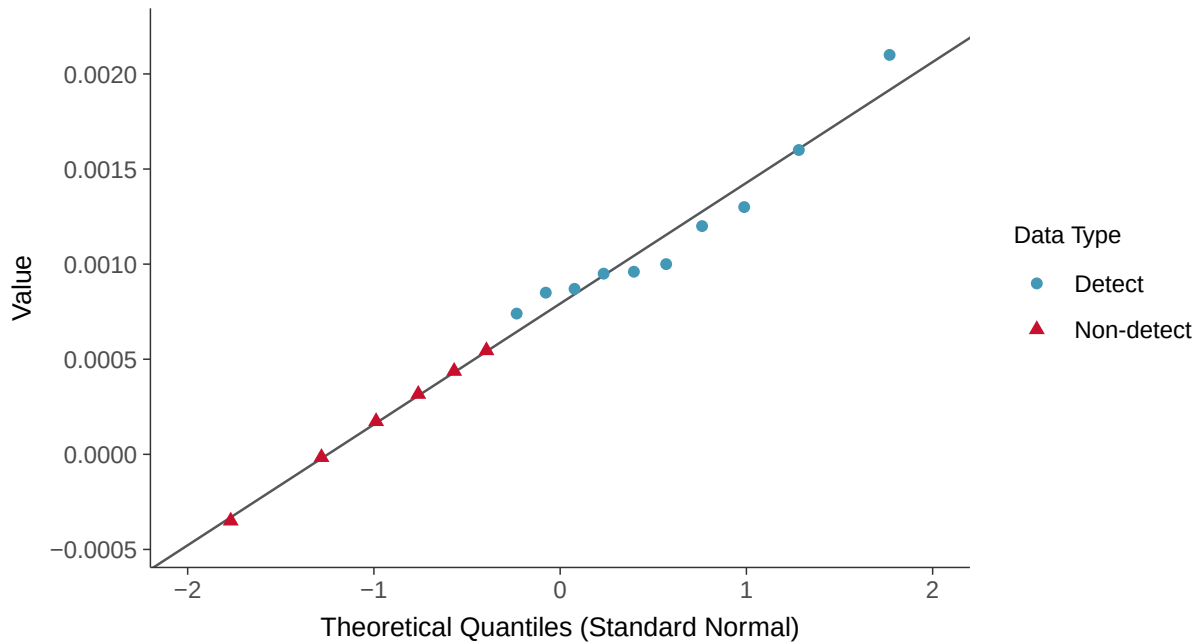
Boxplot by Season

Vanadium, MW-12 (mg/L)



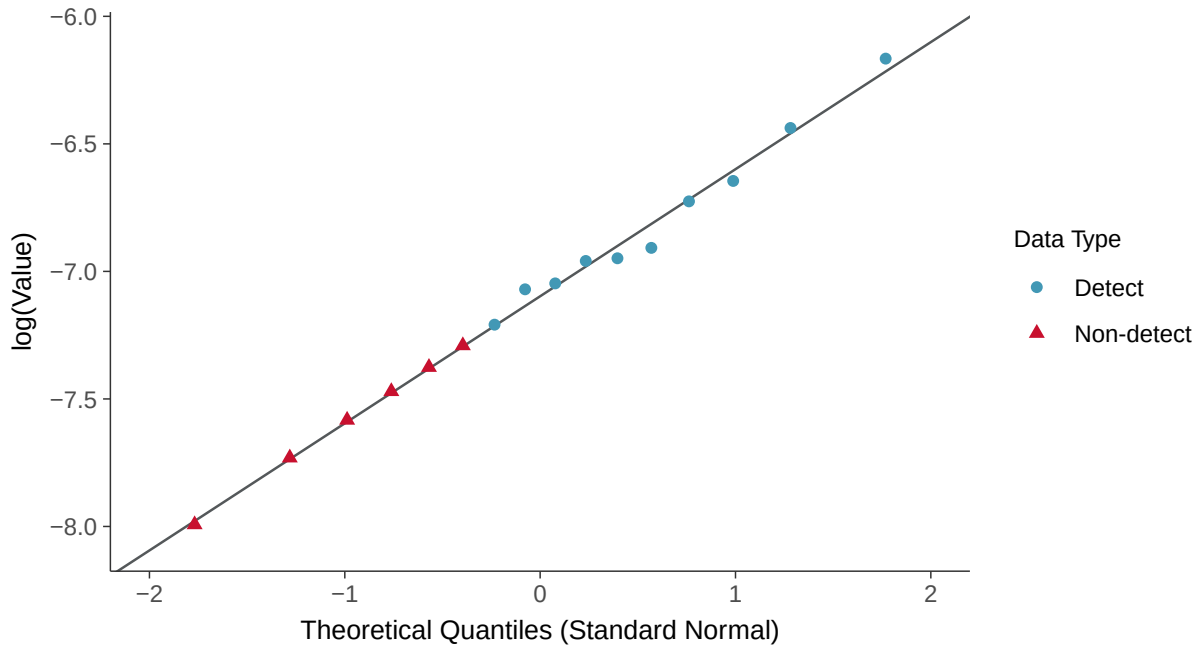
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-12 (mg/L)



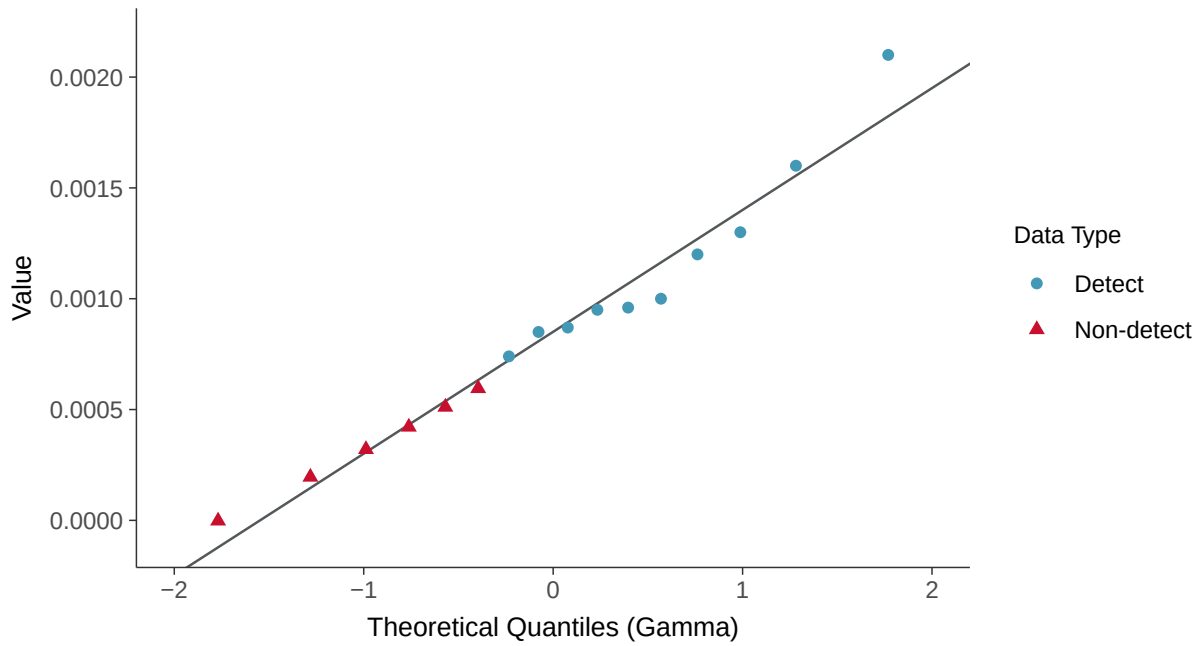
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-12 (mg/L)



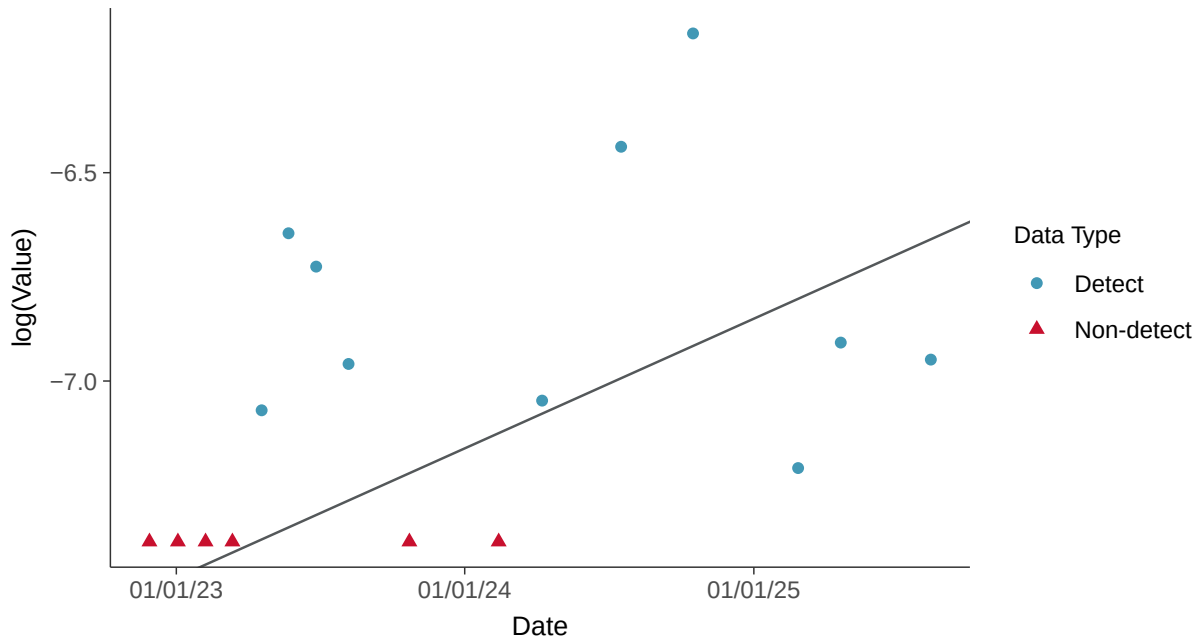
Gamma Q-Q plot using ROS Imputed Estimates

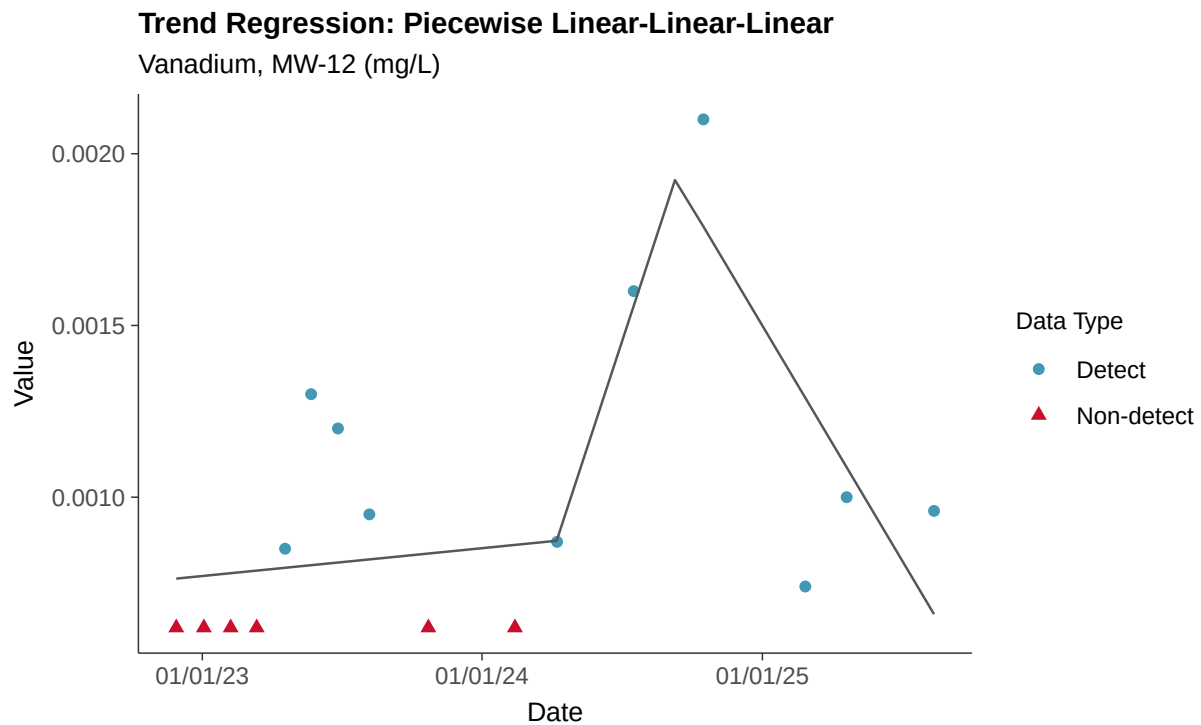
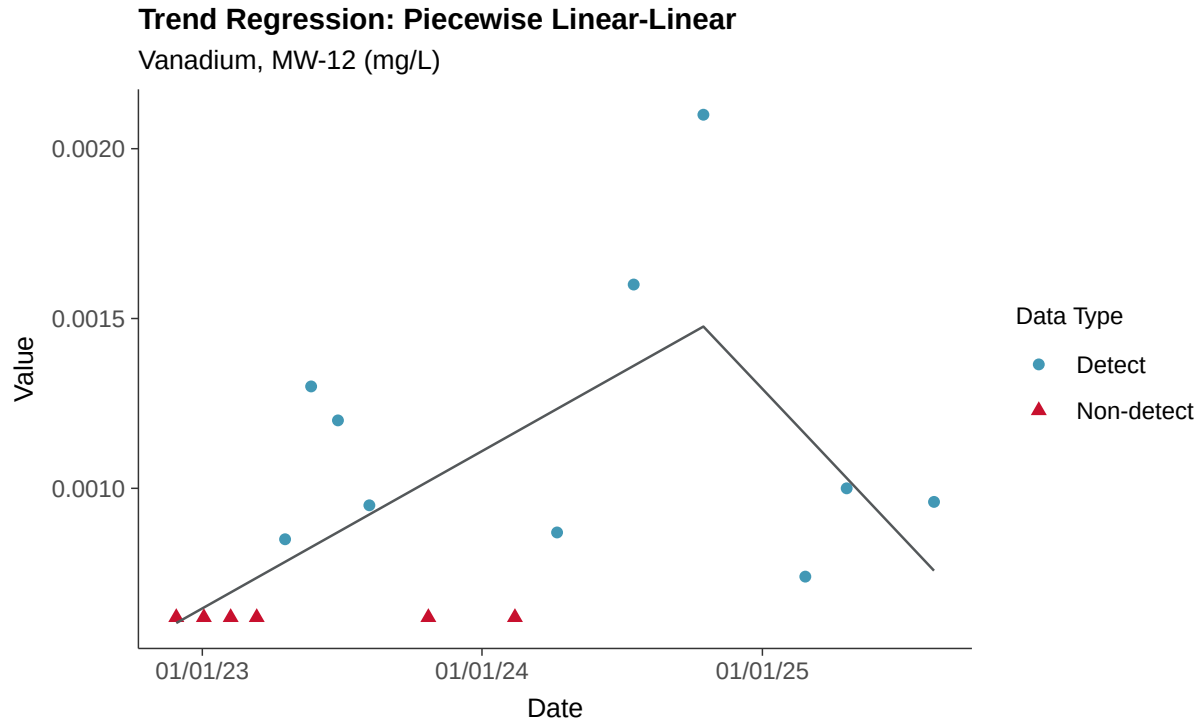
Vanadium, MW-12 (mg/L)



Trend Regression: Lognormal MLE

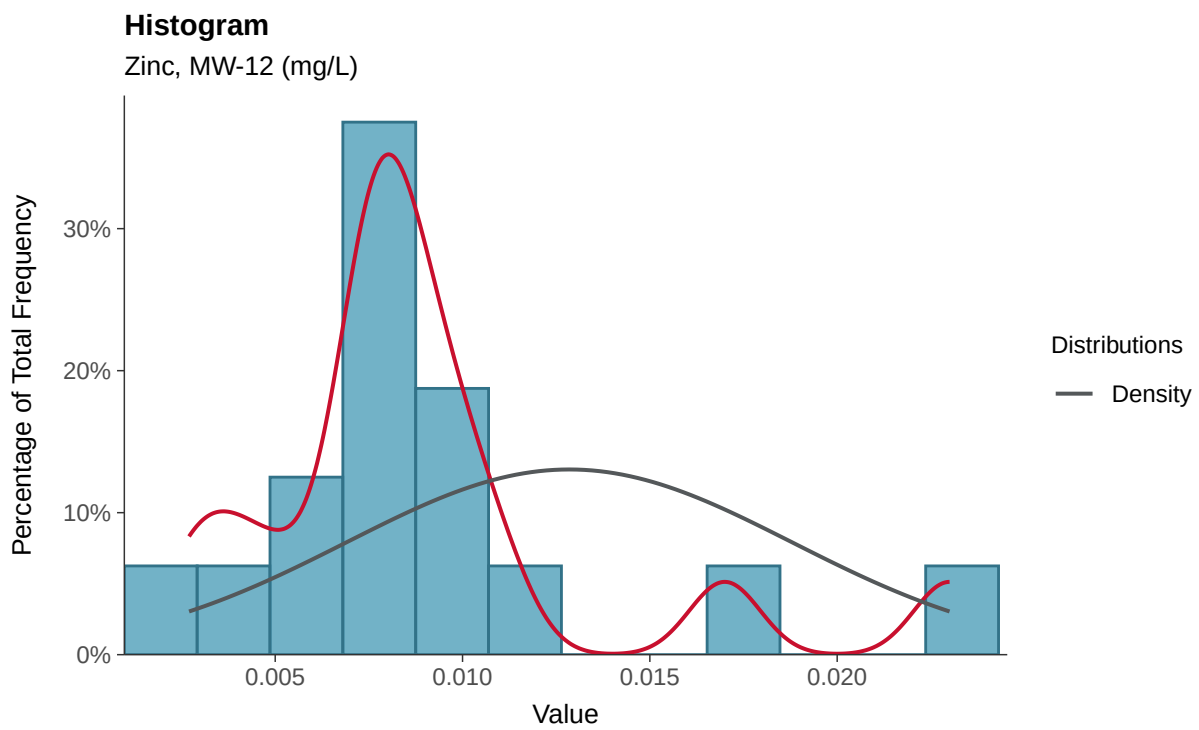
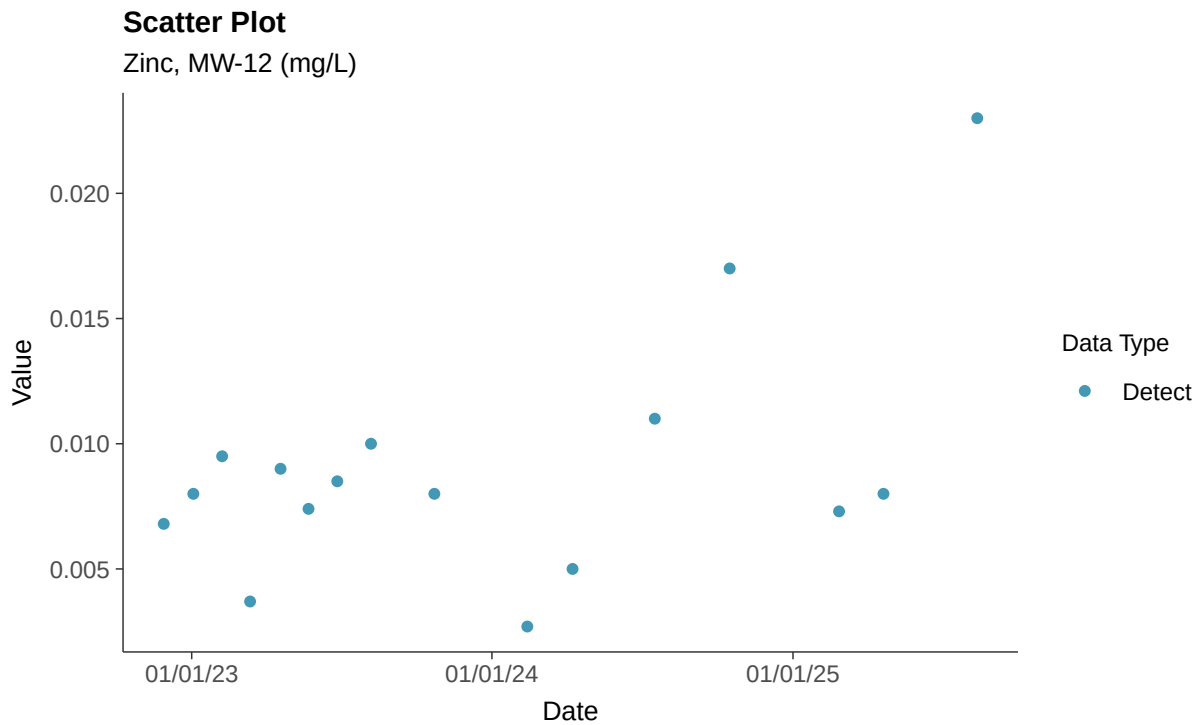
Vanadium, MW-12 (mg/L)

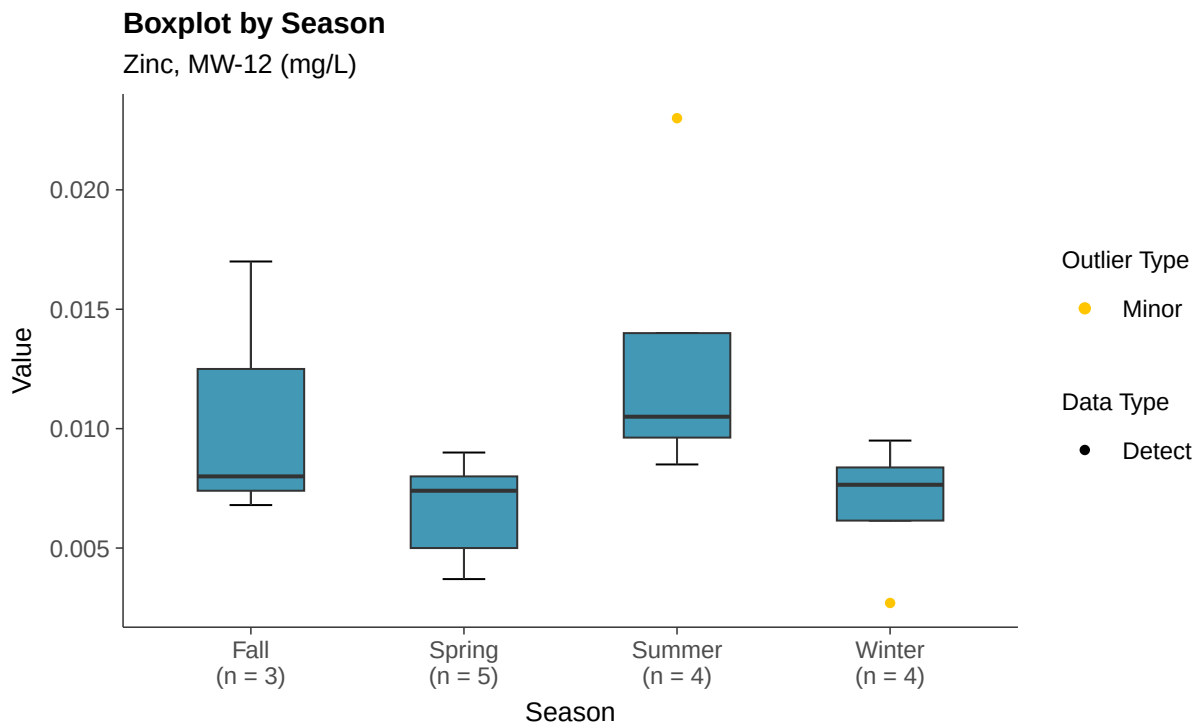
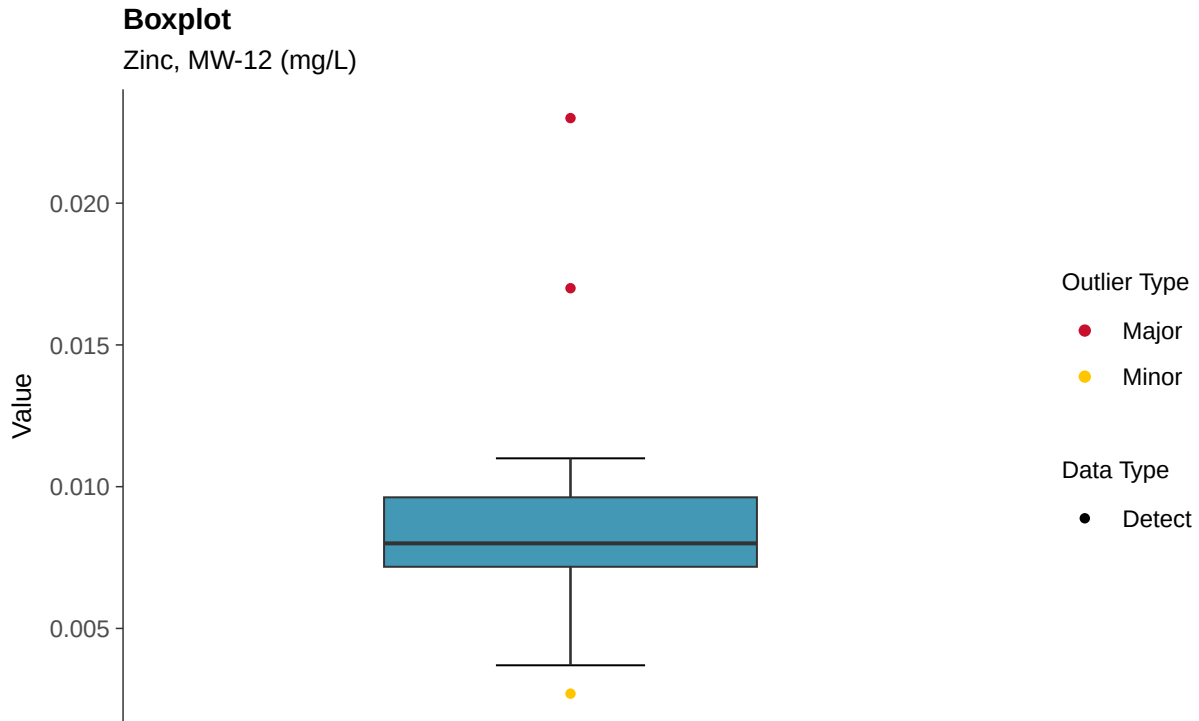




Part 115: Zinc, MW-12

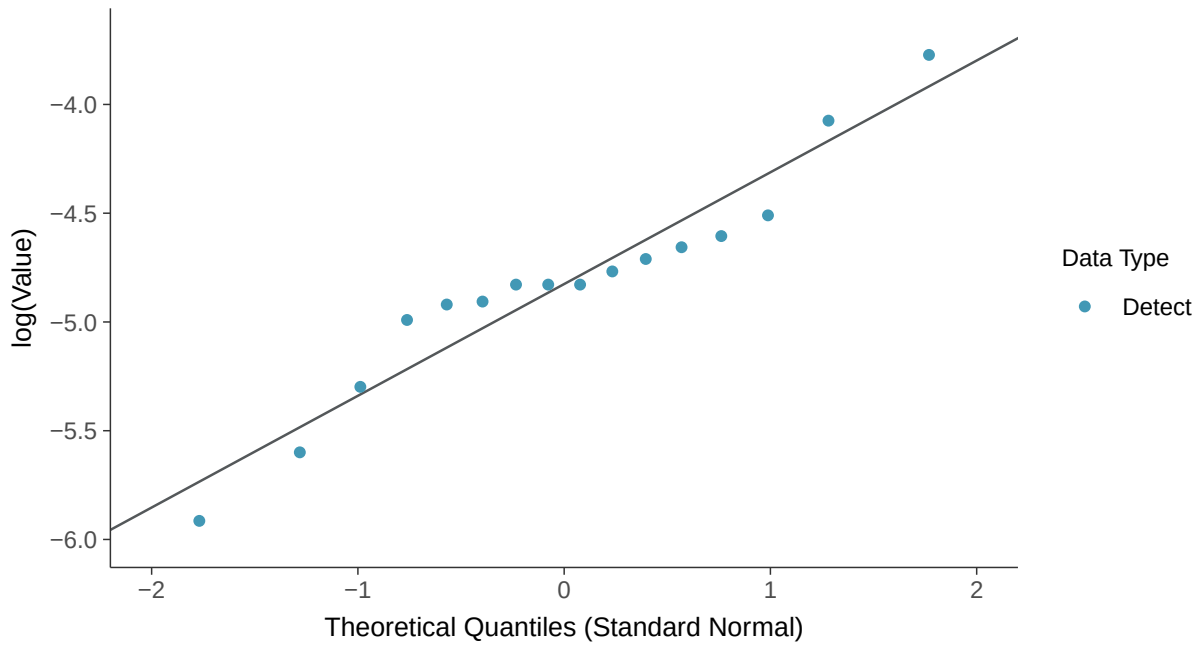
ID: 22_2_5_129





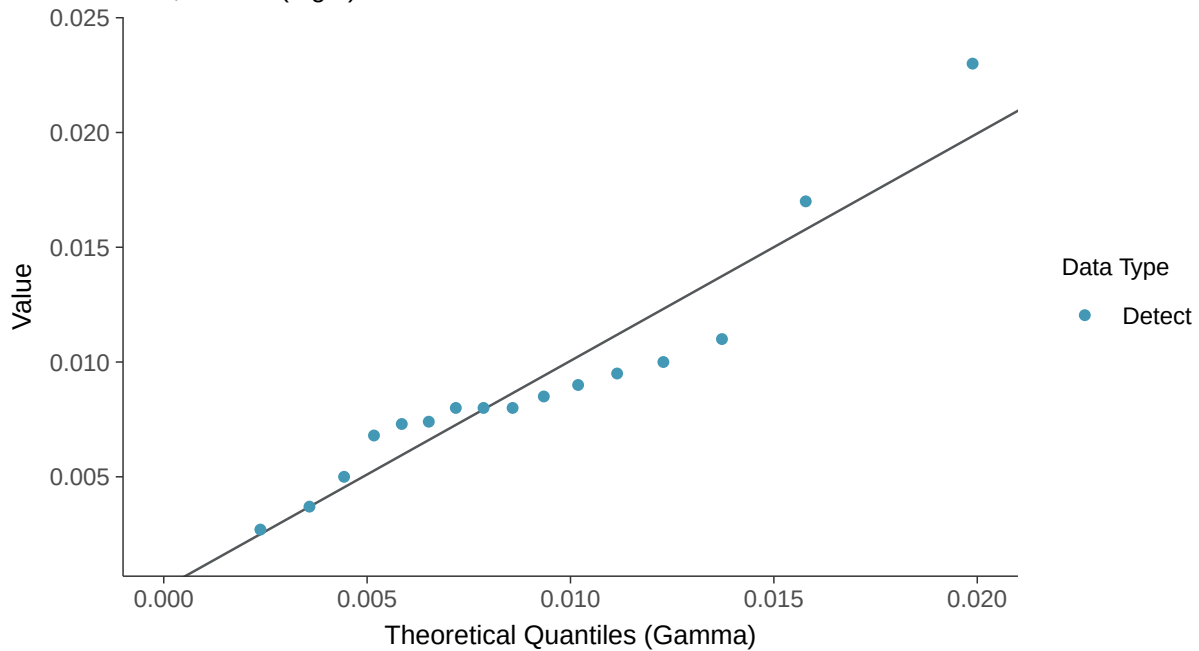
Lognormal Q-Q plot

Zinc, MW-12 (mg/L)



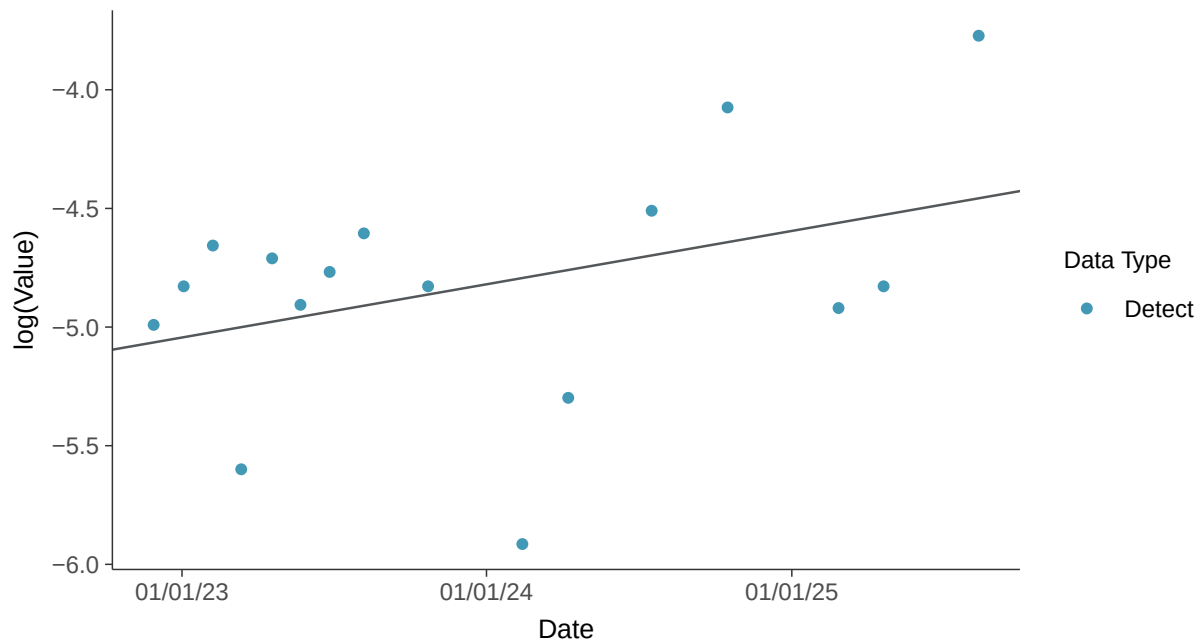
Gamma Q-Q plot

Zinc, MW-12 (mg/L)



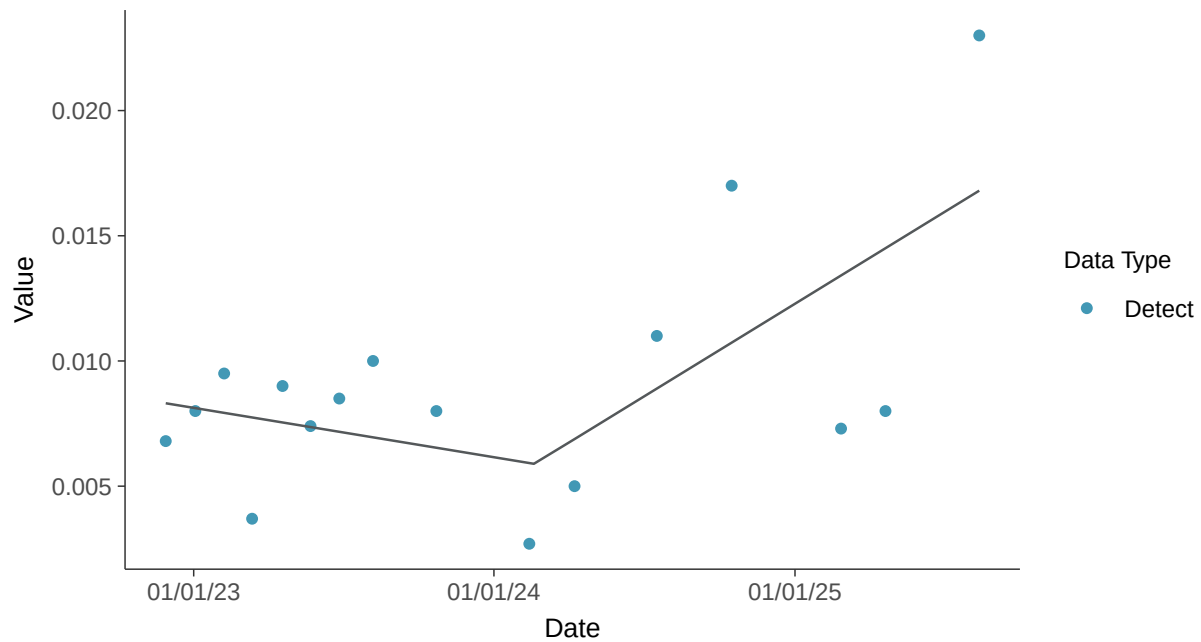
Trend Regression: Lognormal MLE

Zinc, MW-12 (mg/L)



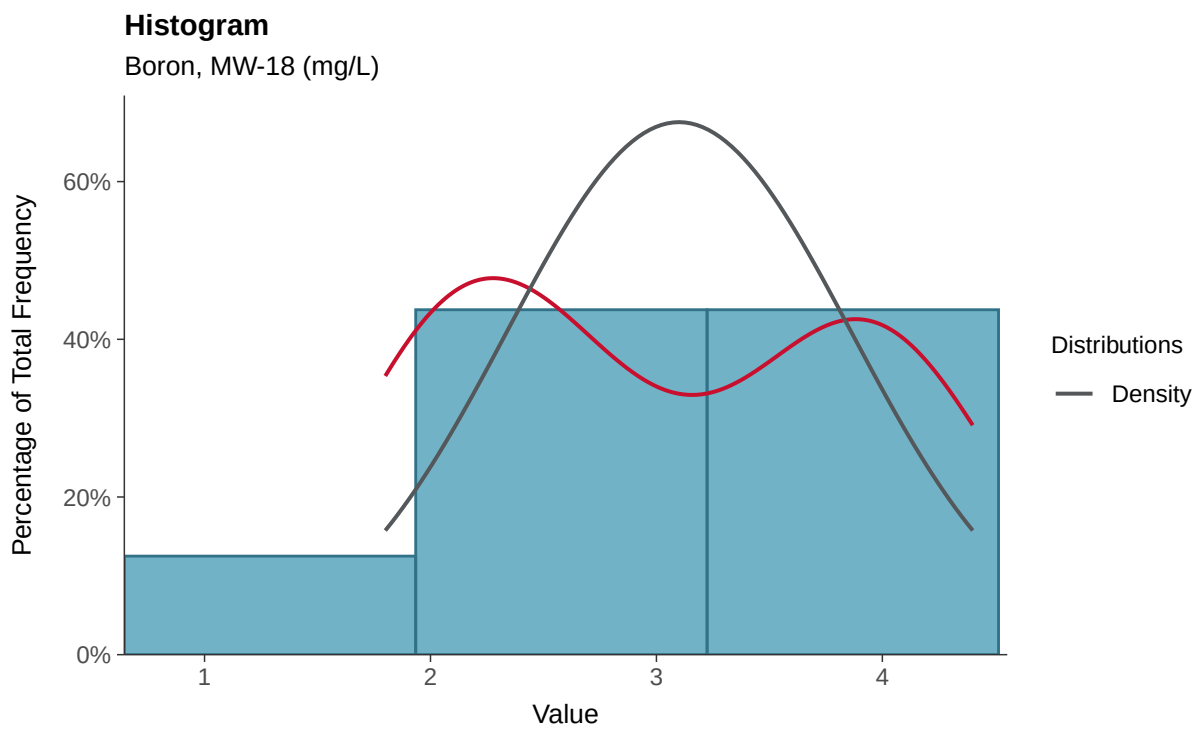
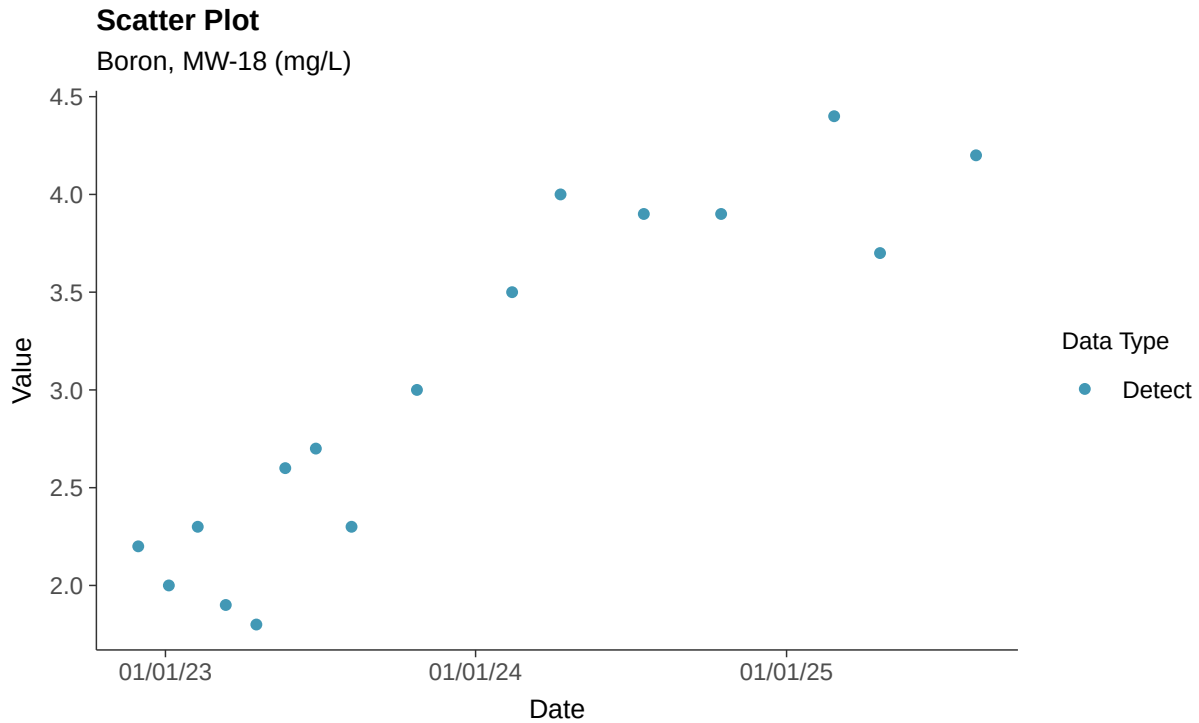
Trend Regression: Piecewise Linear-Linear

Zinc, MW-12 (mg/L)



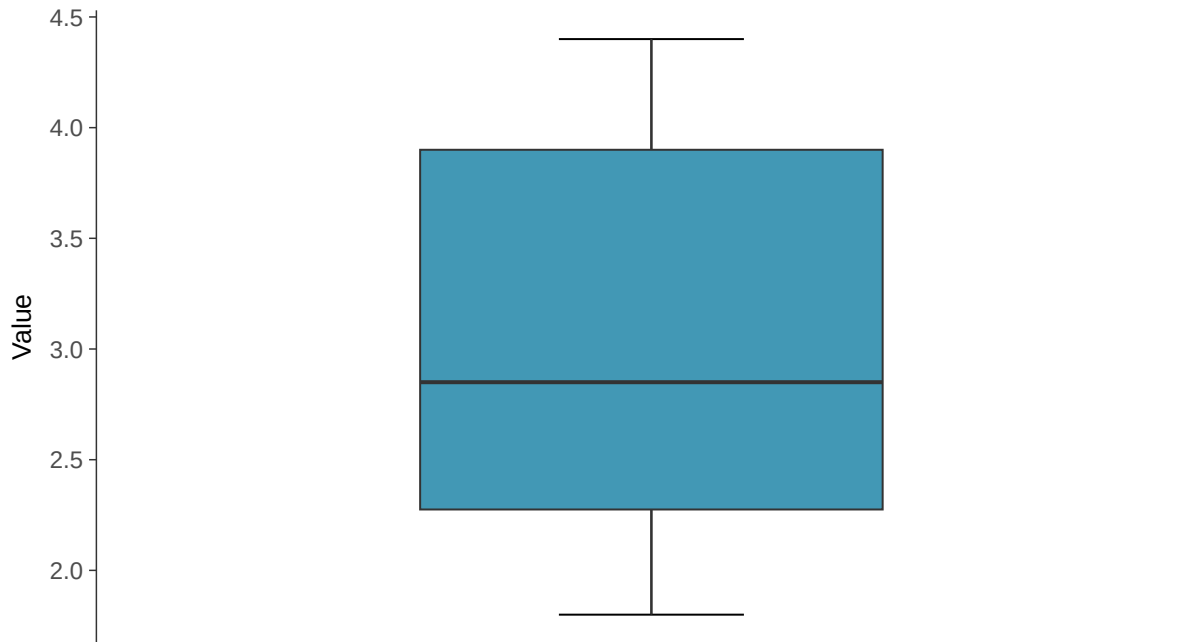
Appendix III: Boron, MW-18

ID: 28_1_3_105



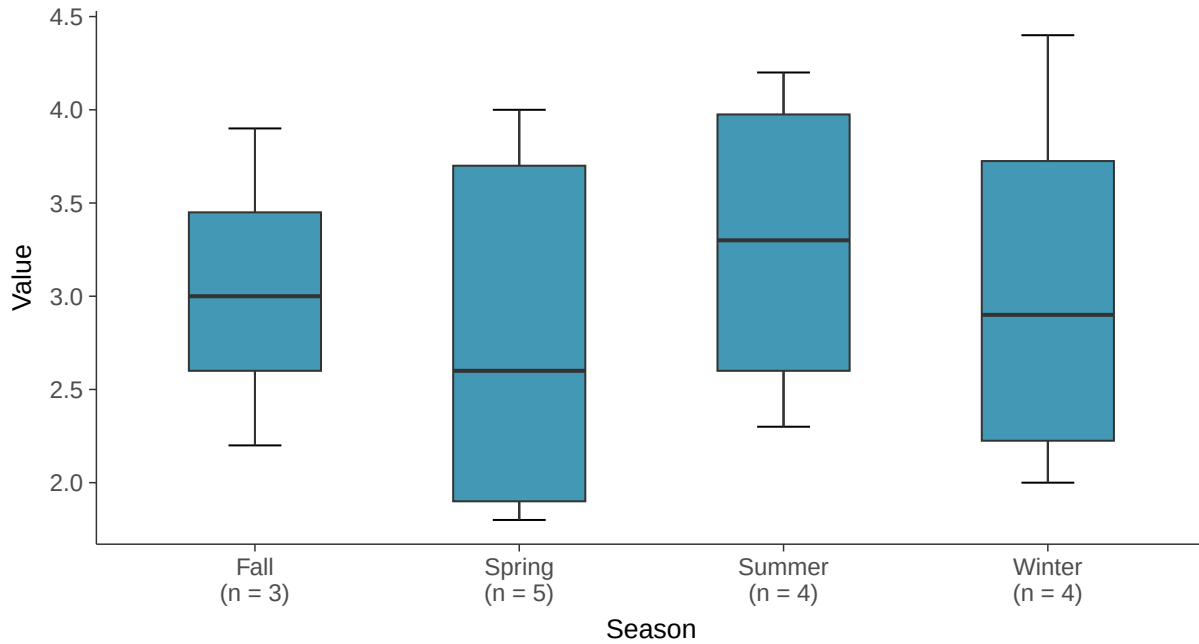
Boxplot

Boron, MW-18 (mg/L)



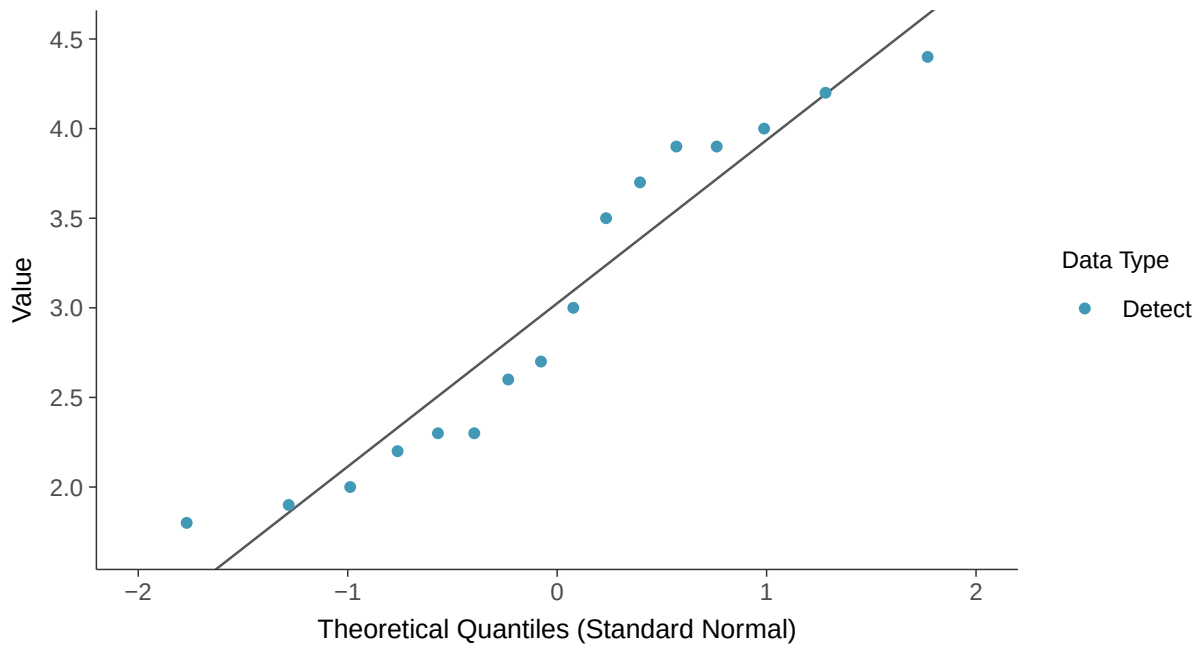
Boxplot by Season

Boron, MW-18 (mg/L)



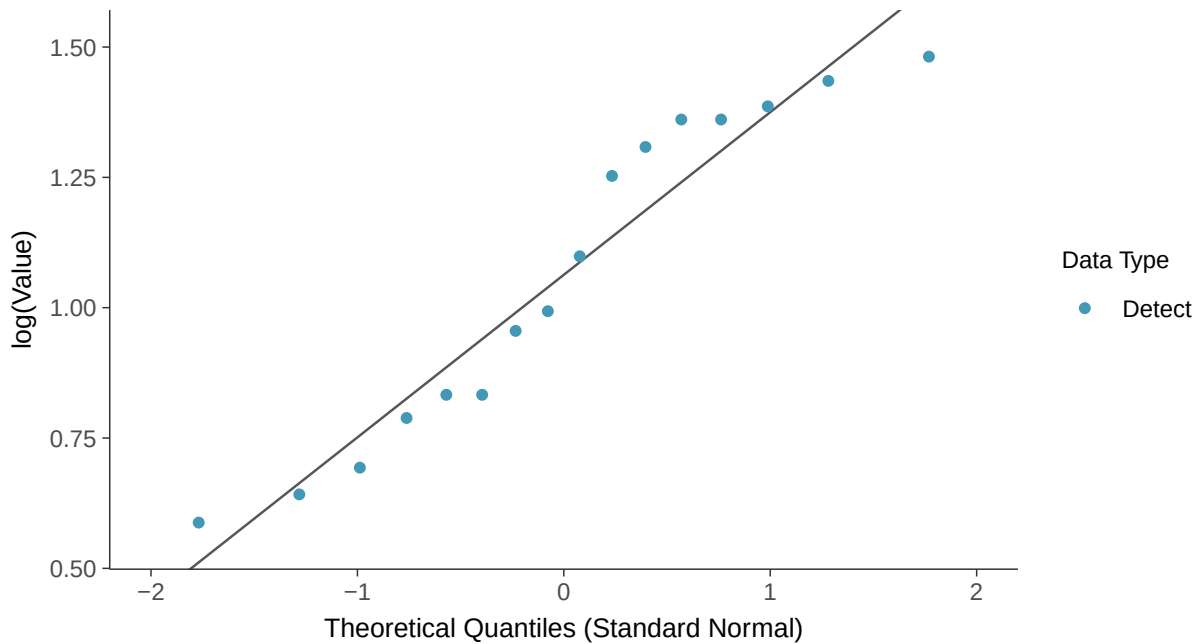
Normal Q-Q plot

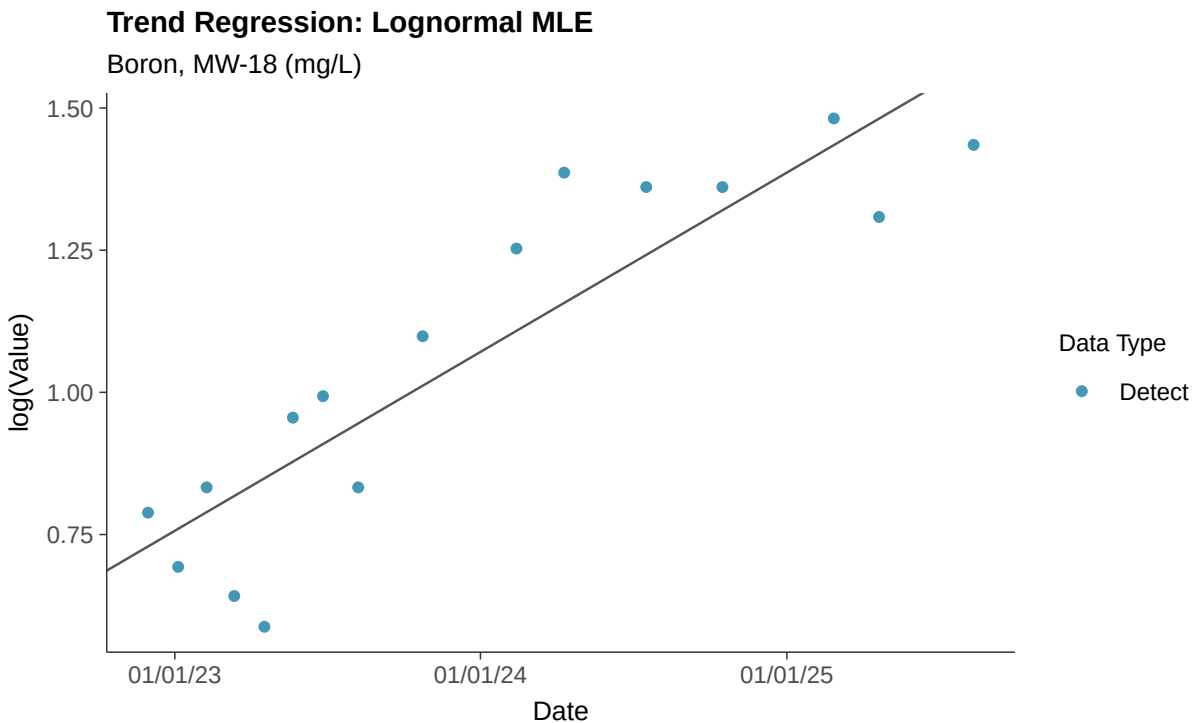
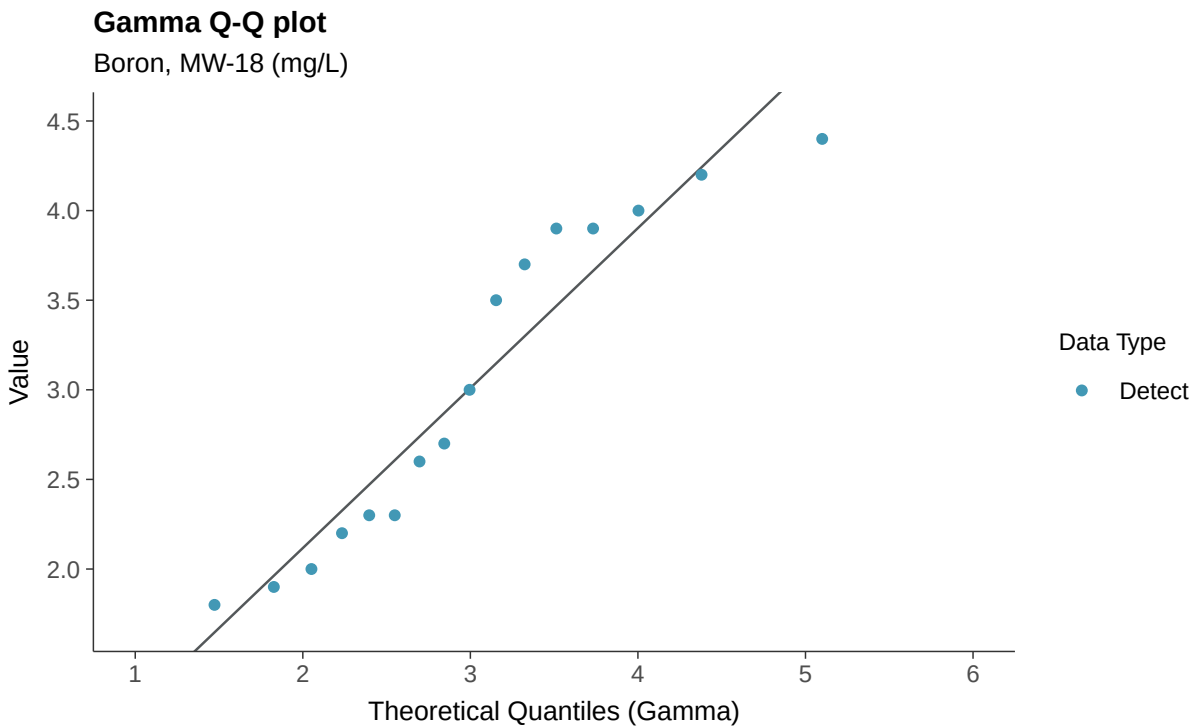
Boron, MW-18 (mg/L)



Lognormal Q-Q plot

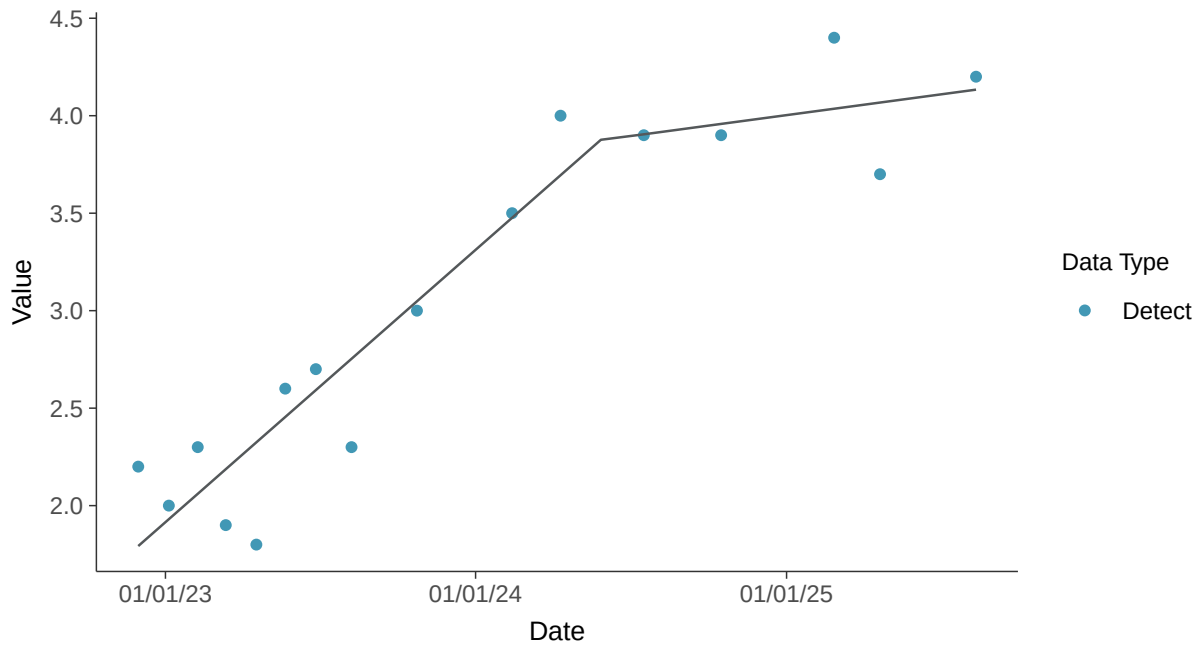
Boron, MW-18 (mg/L)





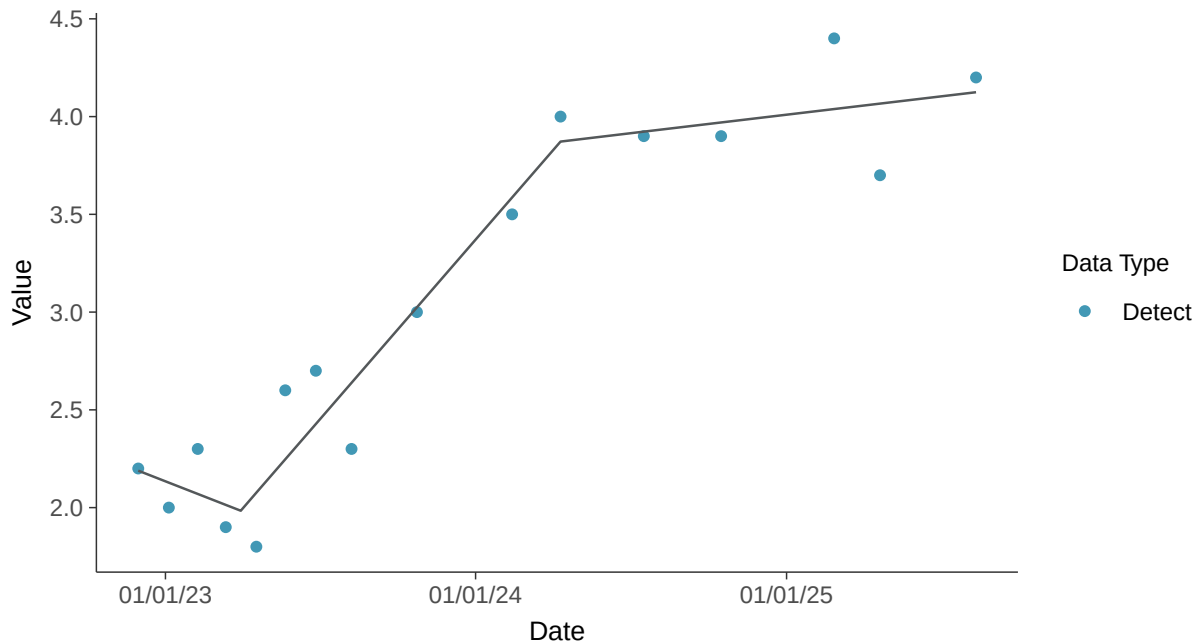
Trend Regression: Piecewise Linear-Linear

Boron, MW-18 (mg/L)



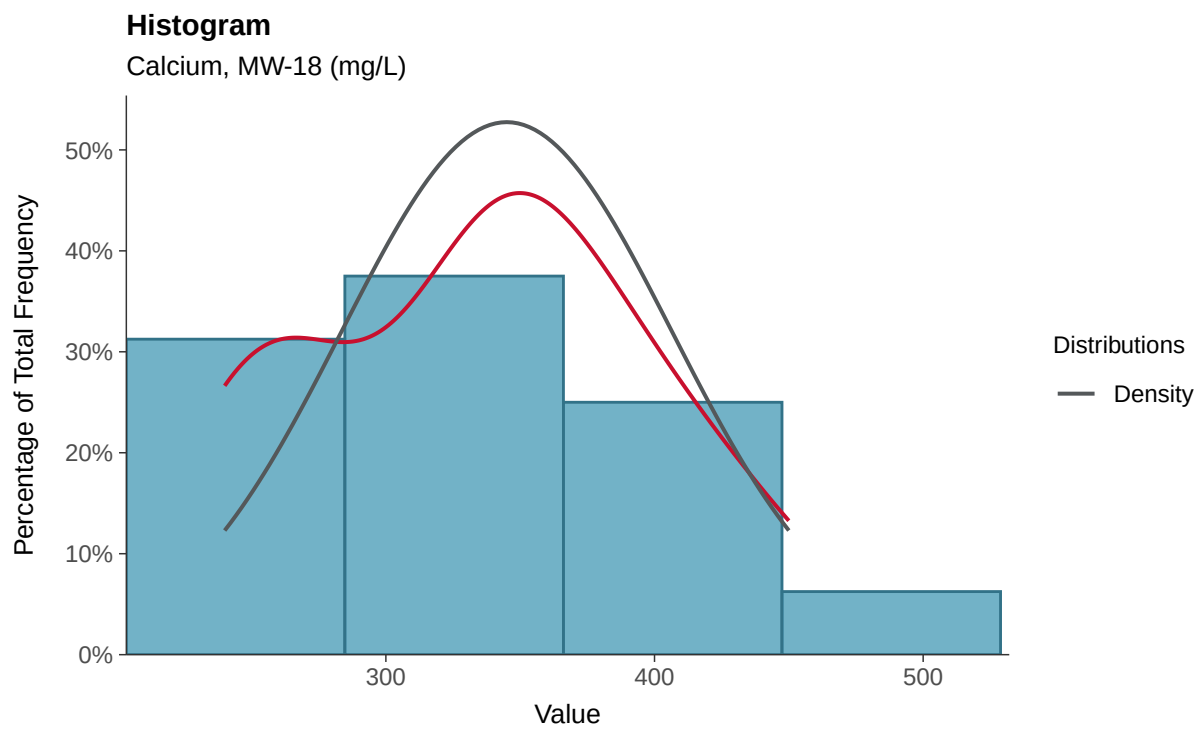
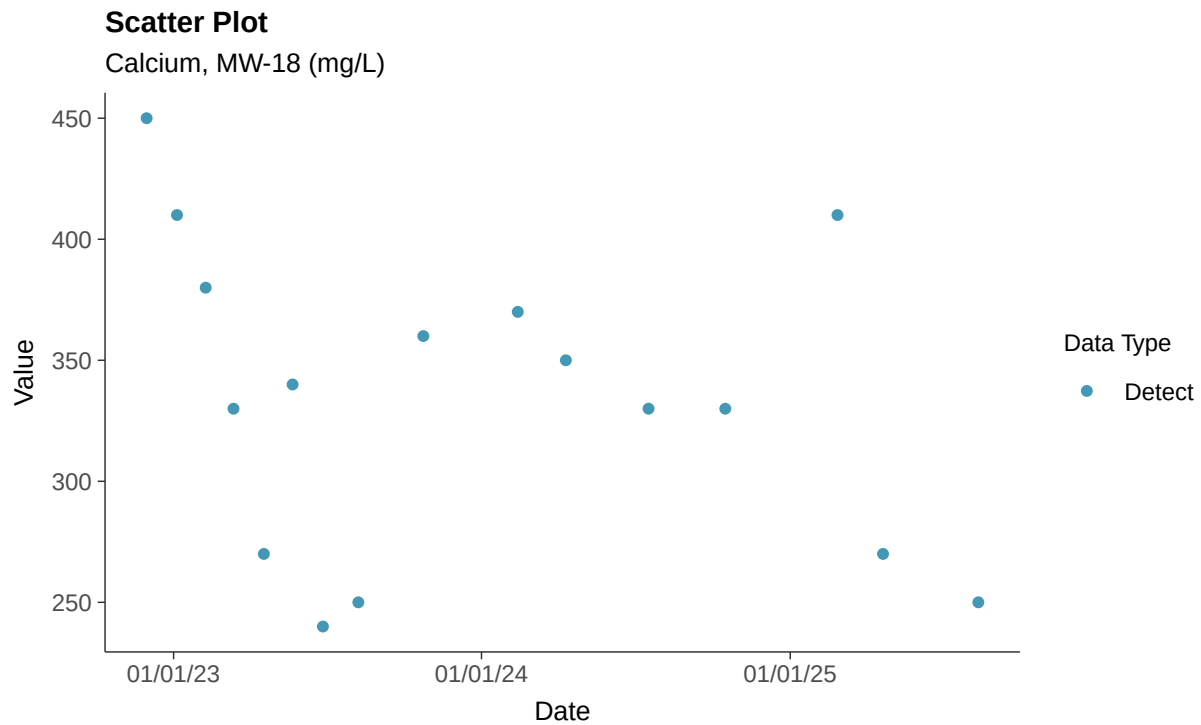
Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-18 (mg/L)



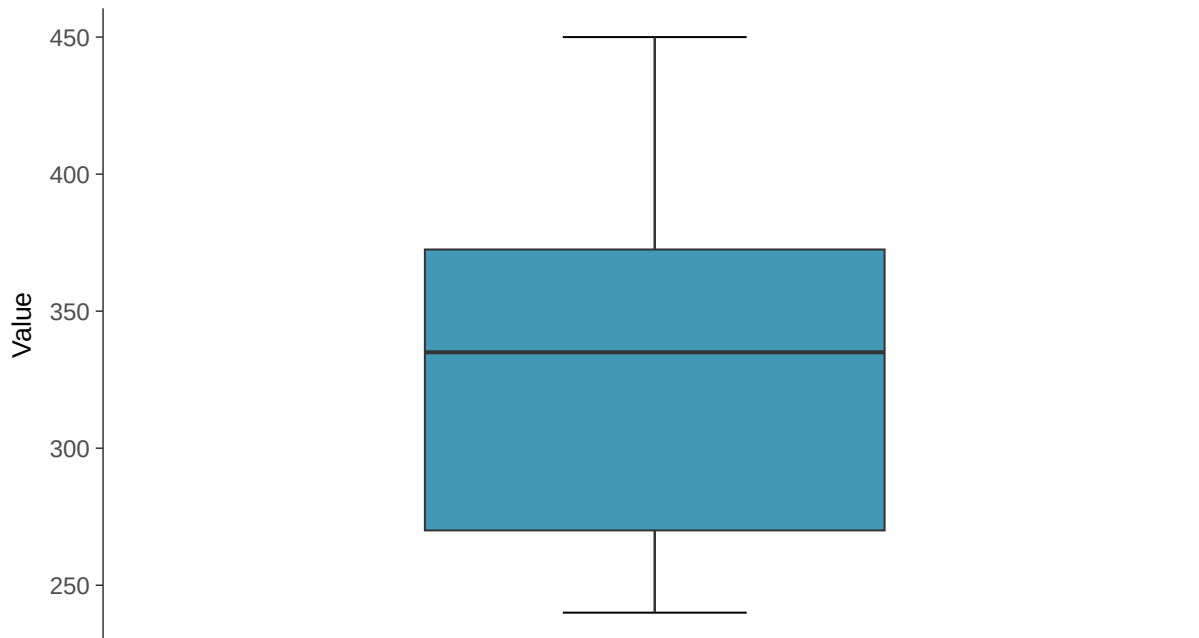
Appendix III: Calcium, MW-18

ID: 28_1_3_107



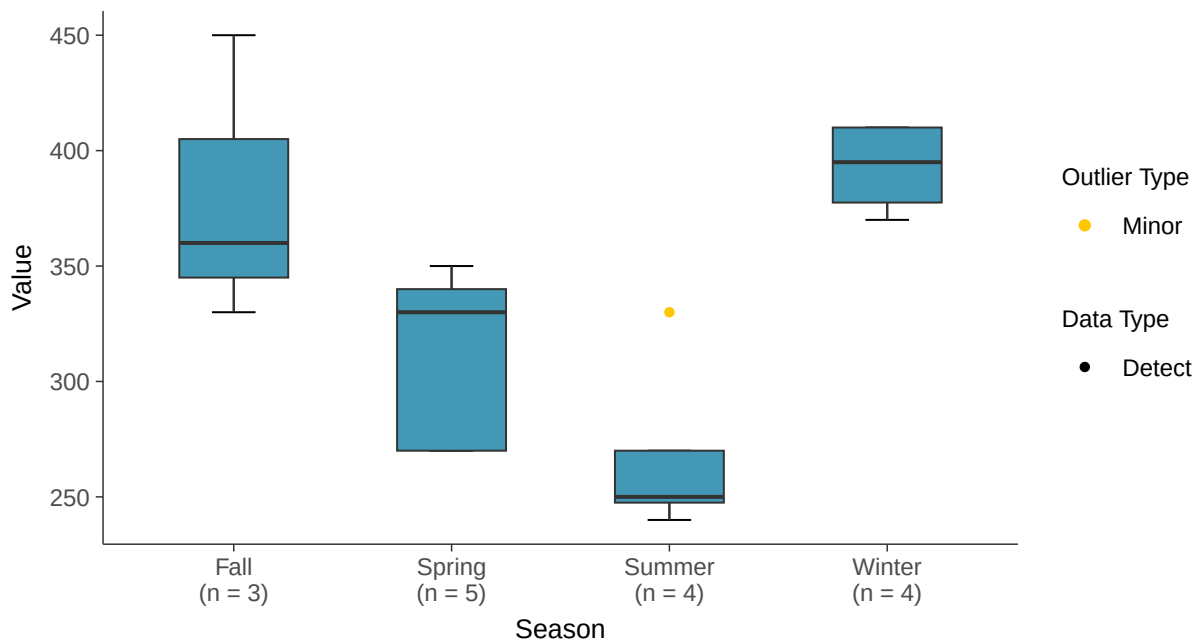
Boxplot

Calcium, MW-18 (mg/L)



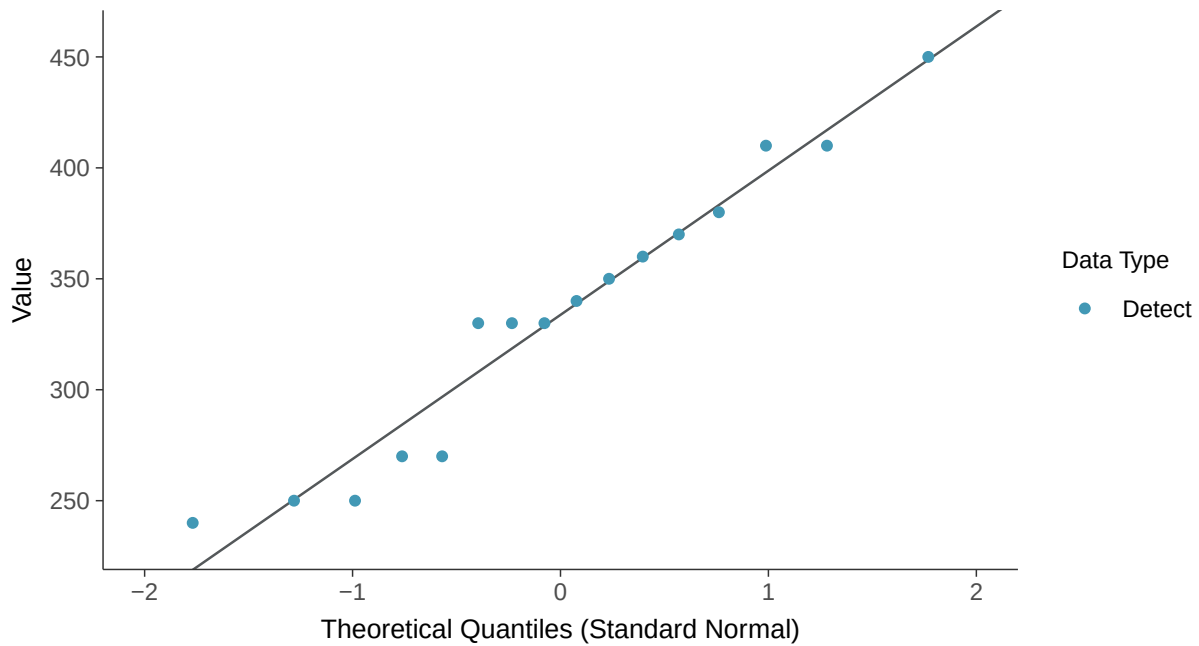
Boxplot by Season

Calcium, MW-18 (mg/L)



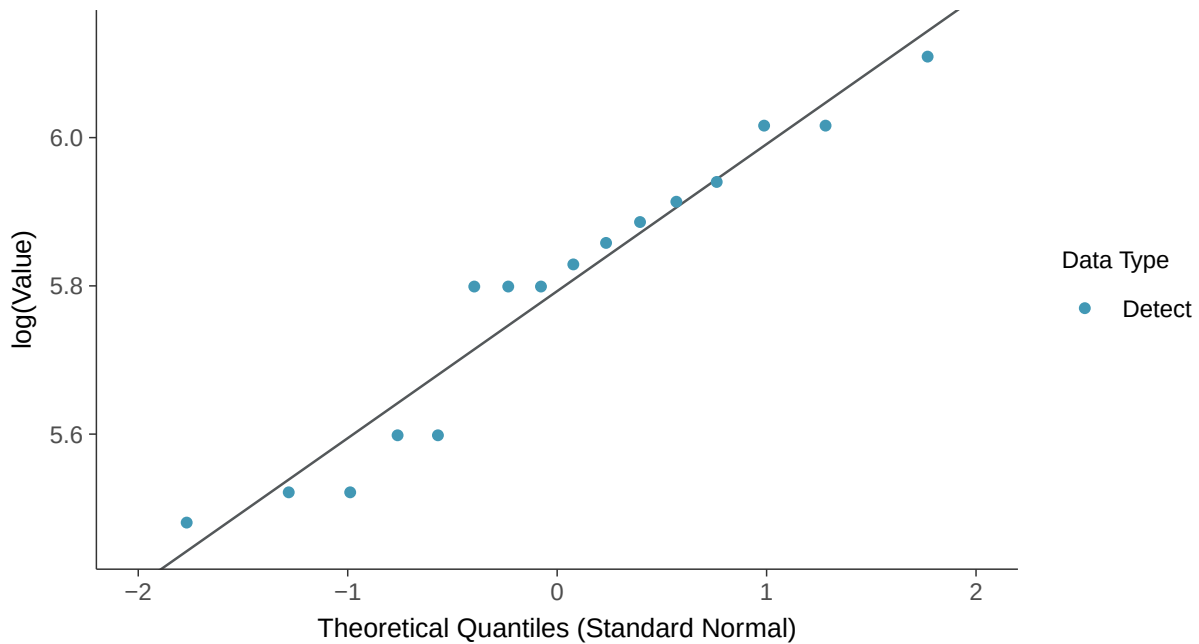
Normal Q-Q plot

Calcium, MW-18 (mg/L)



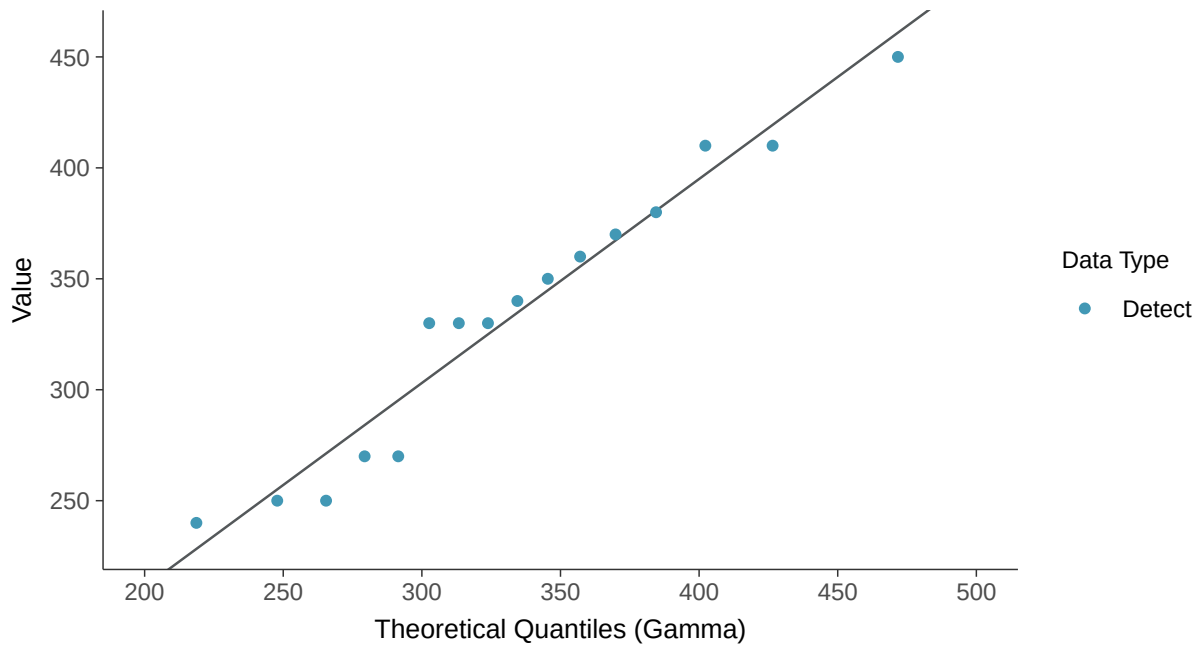
Lognormal Q-Q plot

Calcium, MW-18 (mg/L)



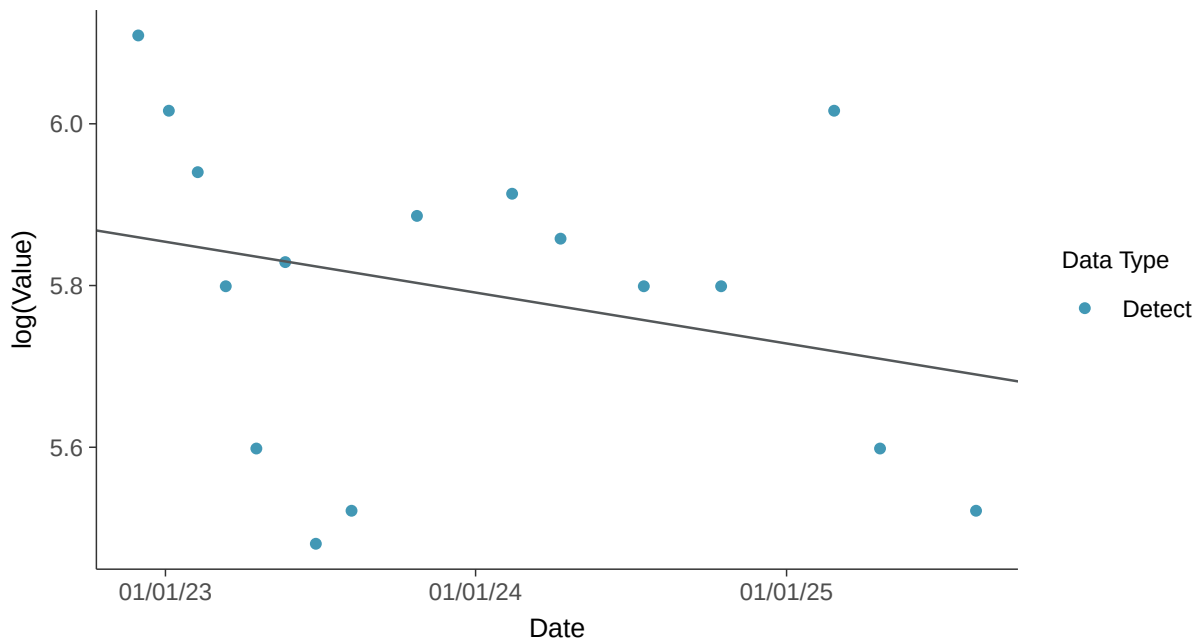
Gamma Q-Q plot

Calcium, MW-18 (mg/L)



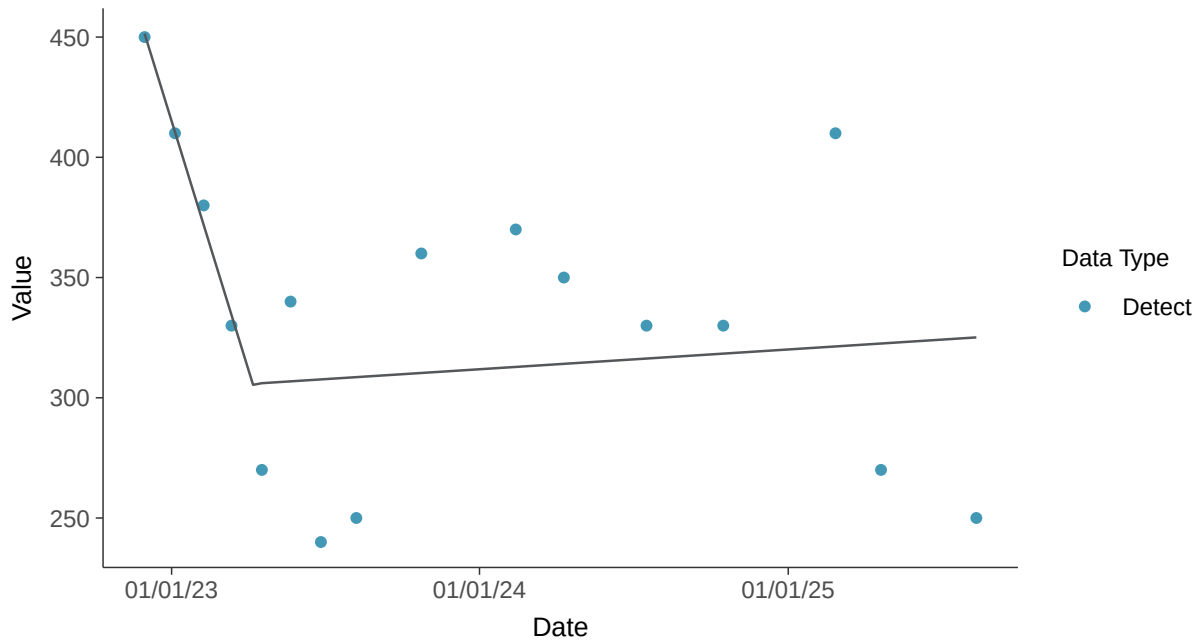
Trend Regression: Lognormal MLE

Calcium, MW-18 (mg/L)



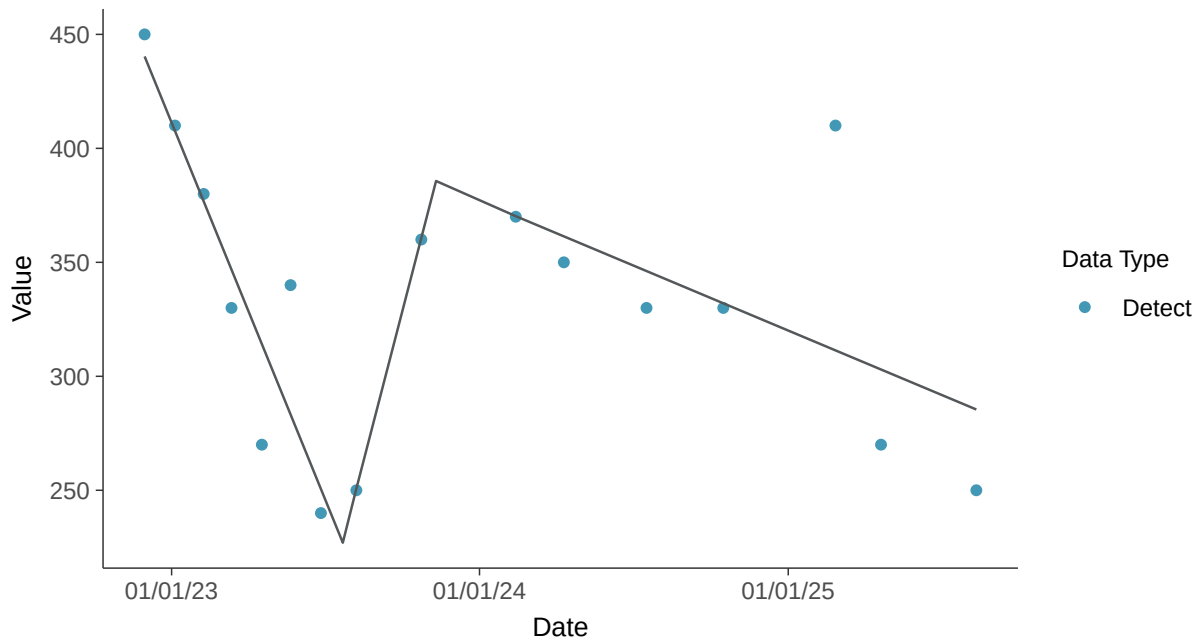
Trend Regression: Piecewise Linear-Linear

Calcium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-18 (mg/L)

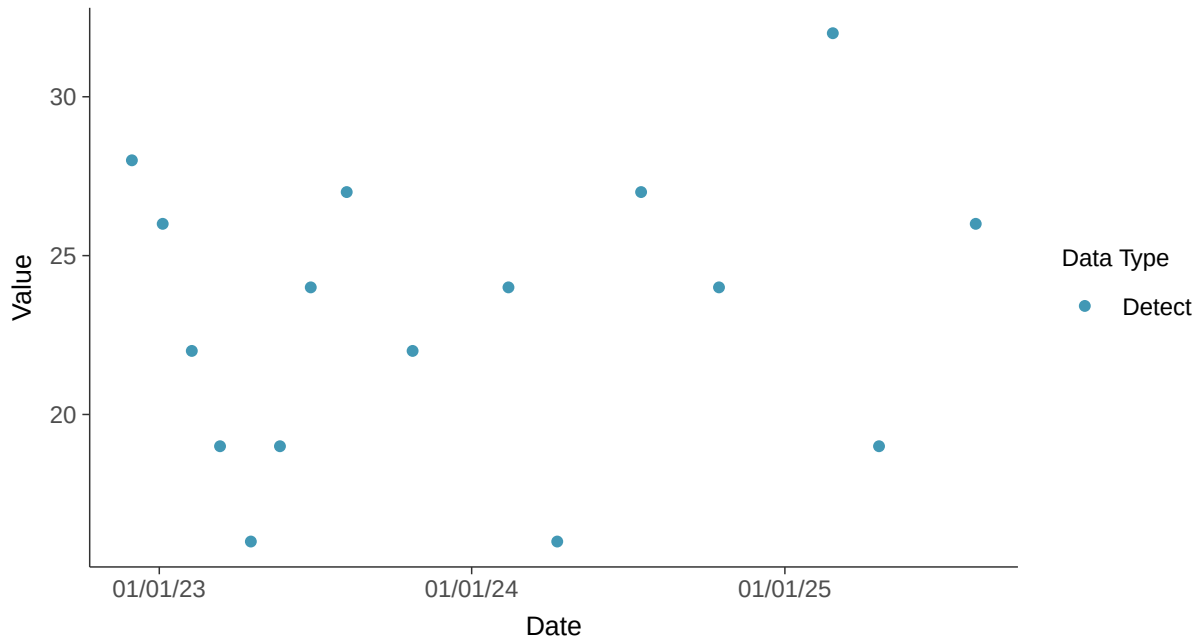


Appendix III: Chloride (as Cl), MW-18

ID: 28_1_3_108

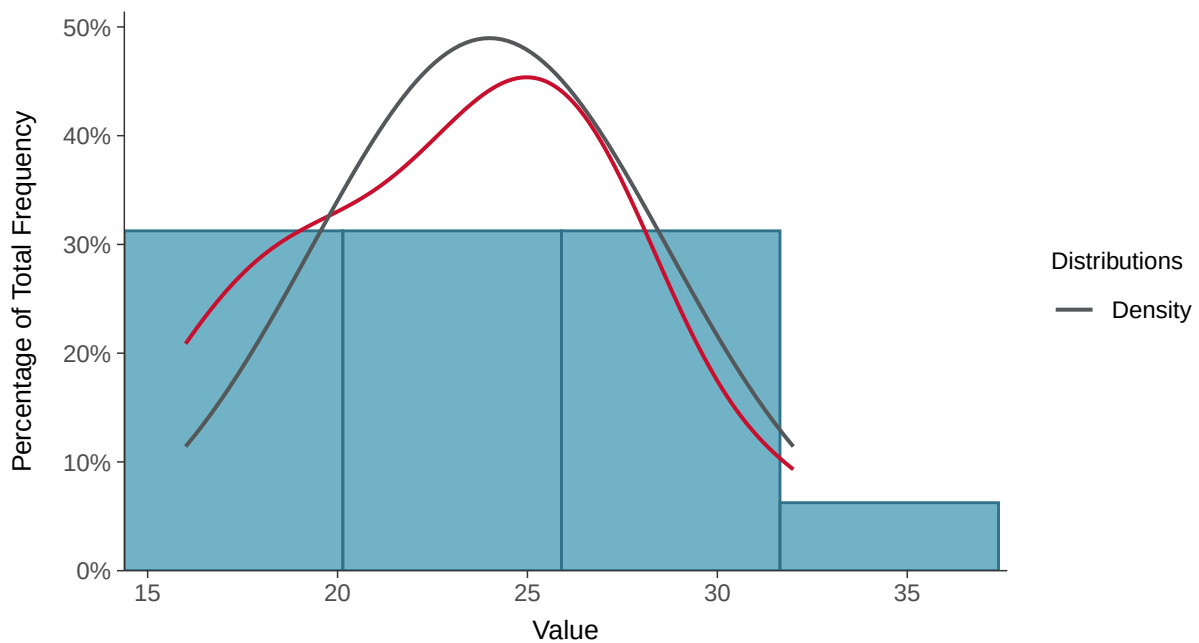
Scatter Plot

Chloride (as Cl), MW-18 (mg/L)



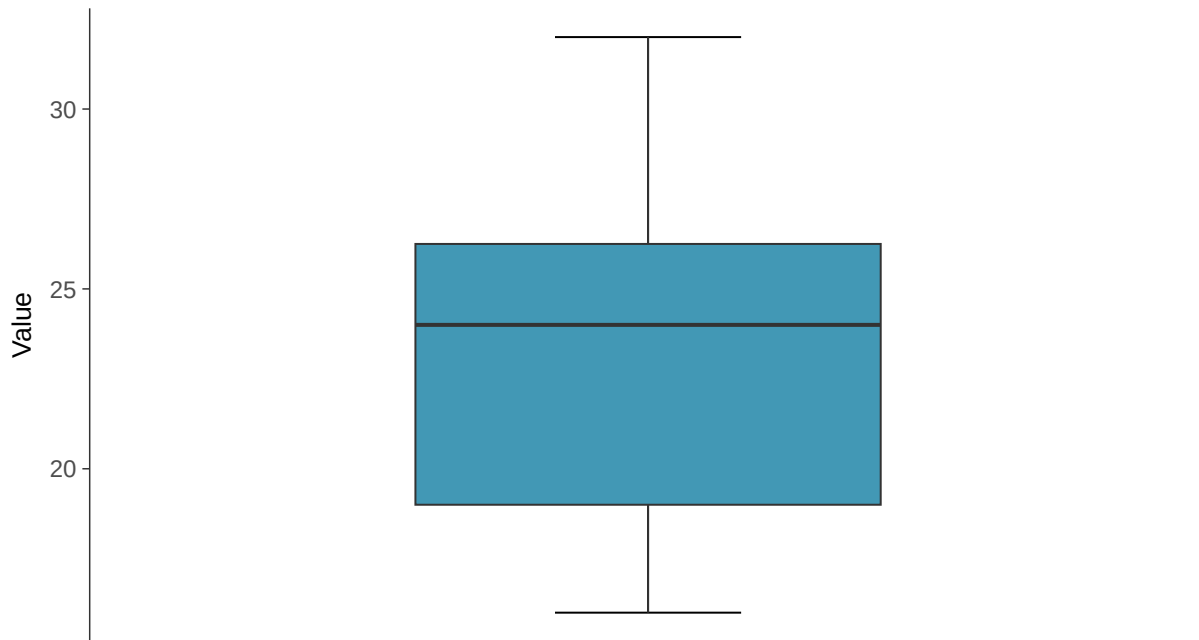
Histogram

Chloride (as Cl), MW-18 (mg/L)



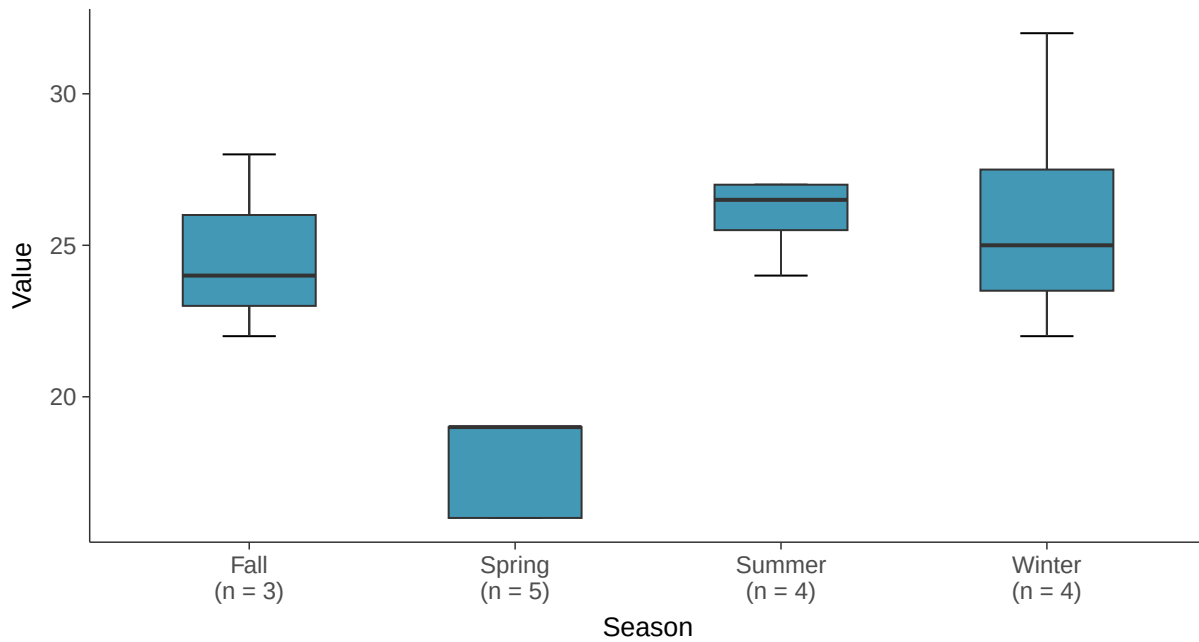
Boxplot

Chloride (as Cl), MW-18 (mg/L)



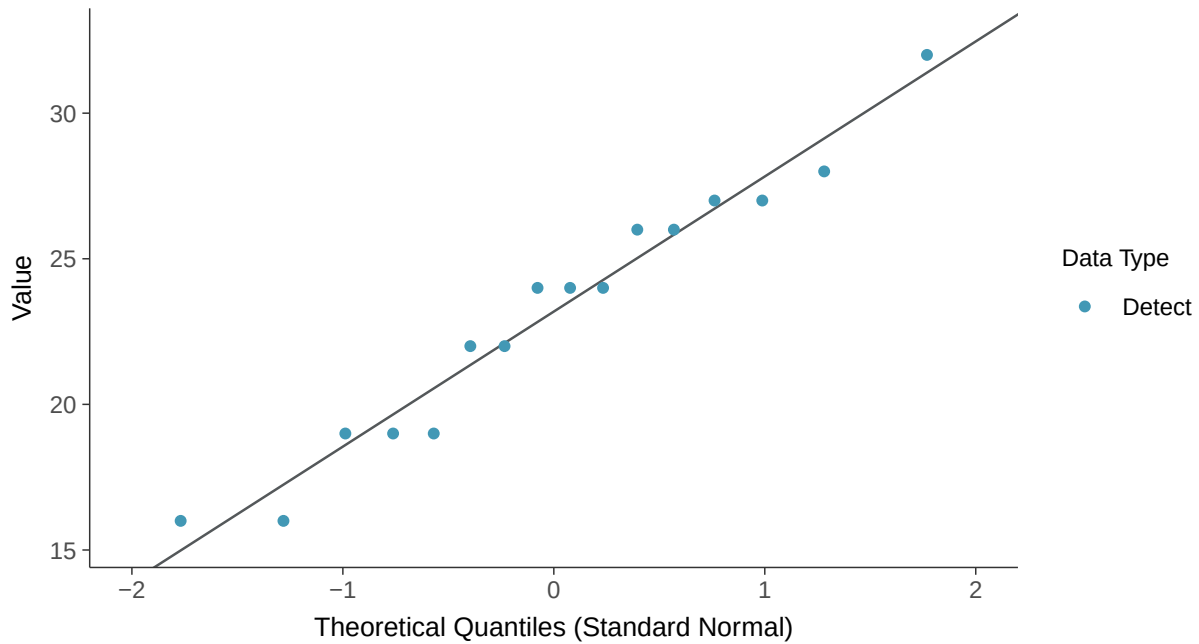
Boxplot by Season

Chloride (as Cl), MW-18 (mg/L)



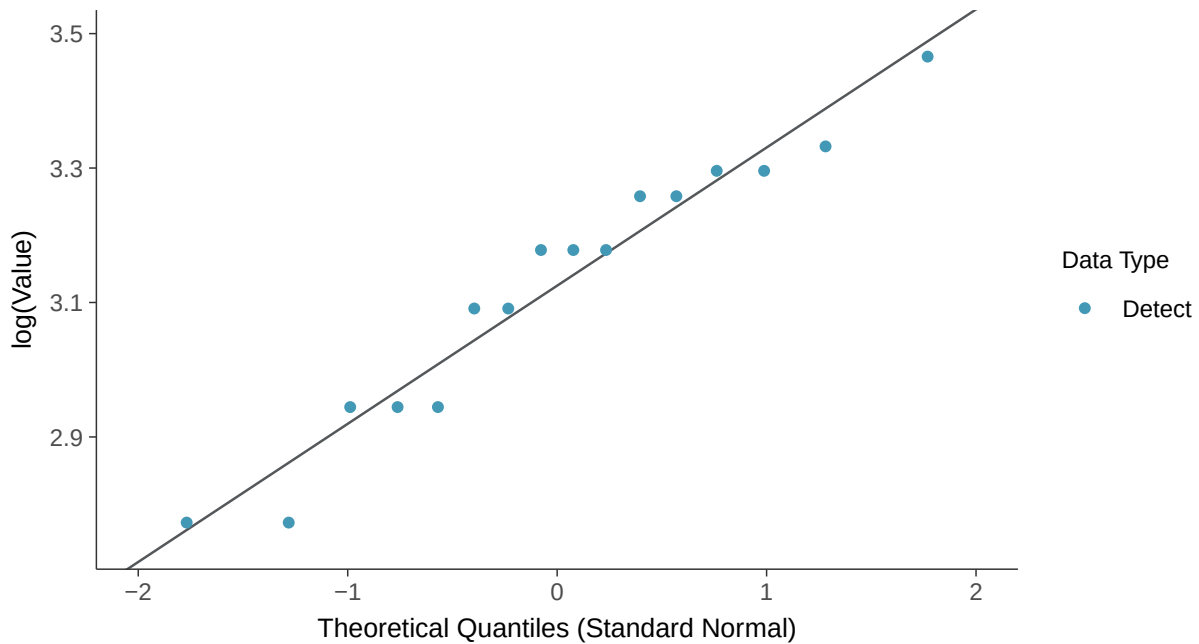
Normal Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



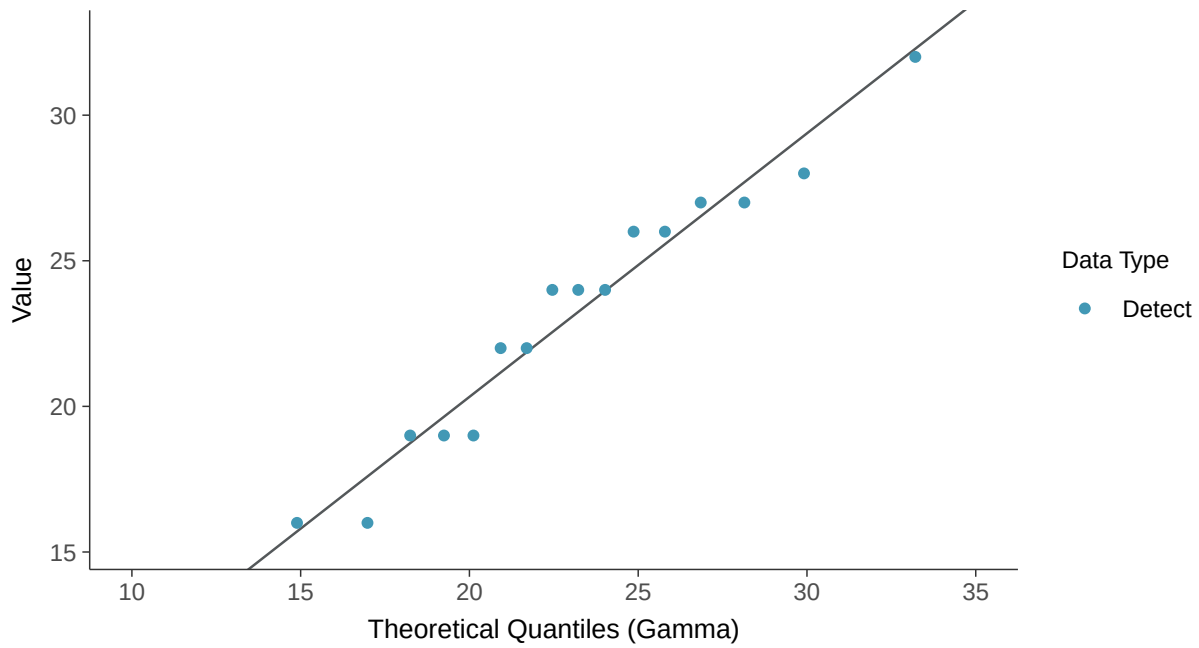
Lognormal Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



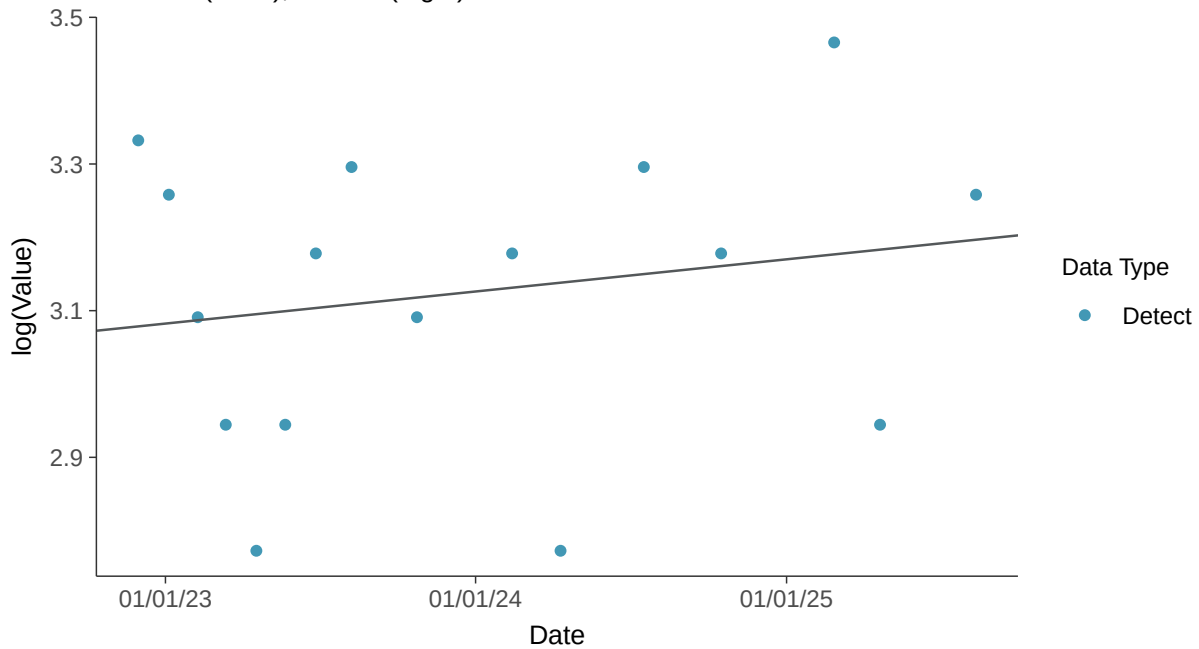
Gamma Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



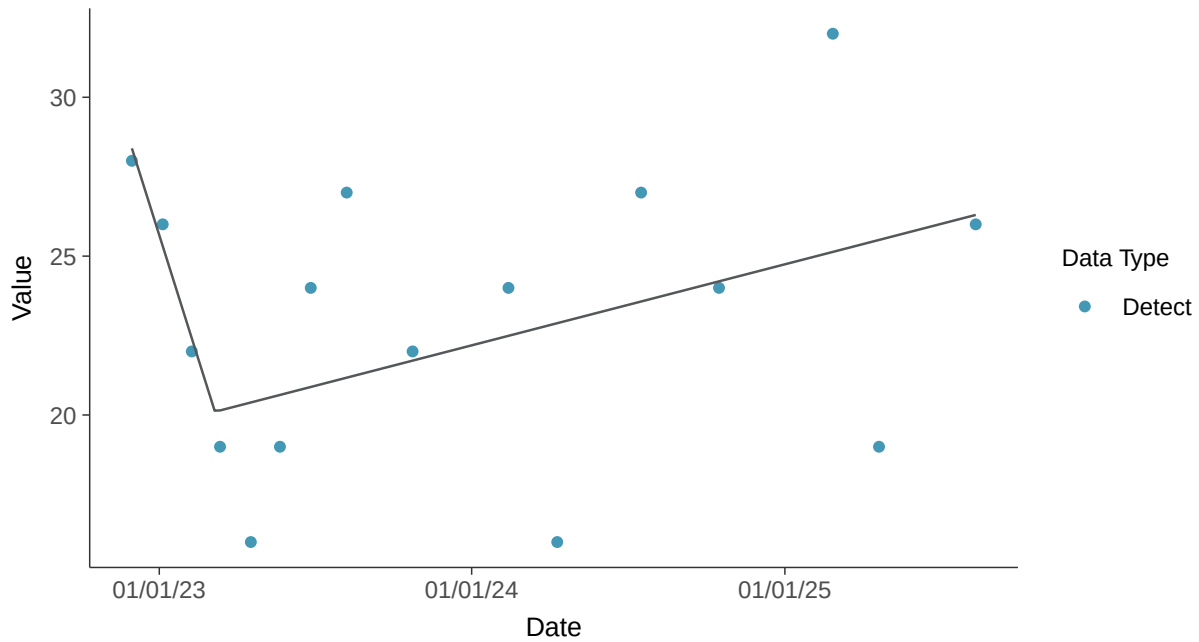
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-18 (mg/L)



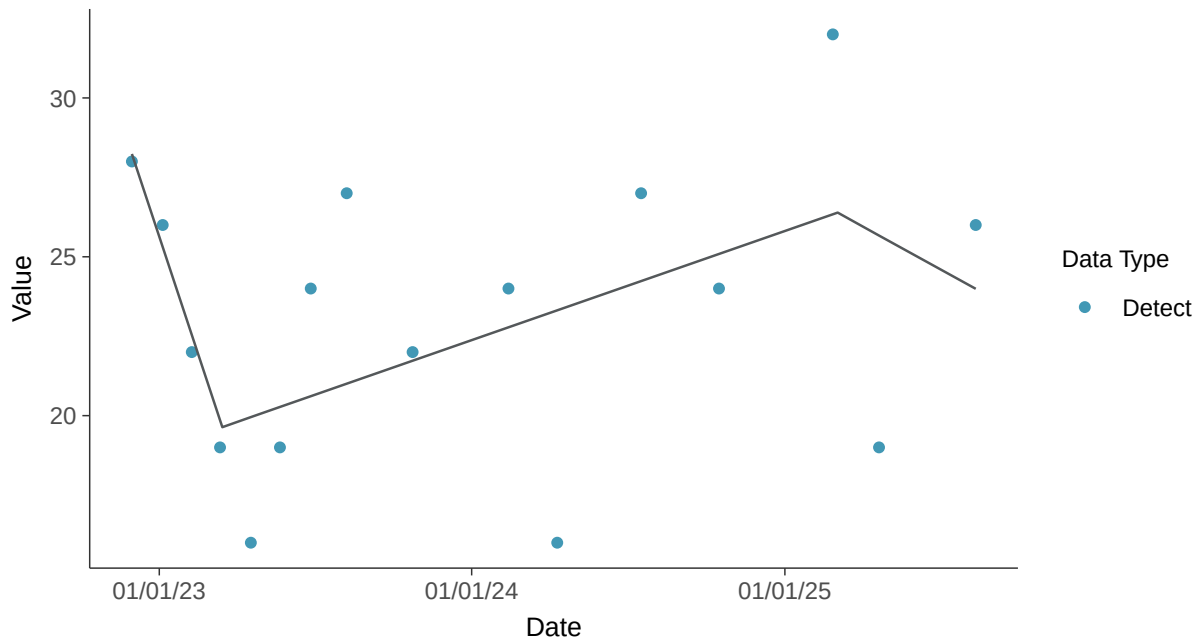
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-18 (mg/L)



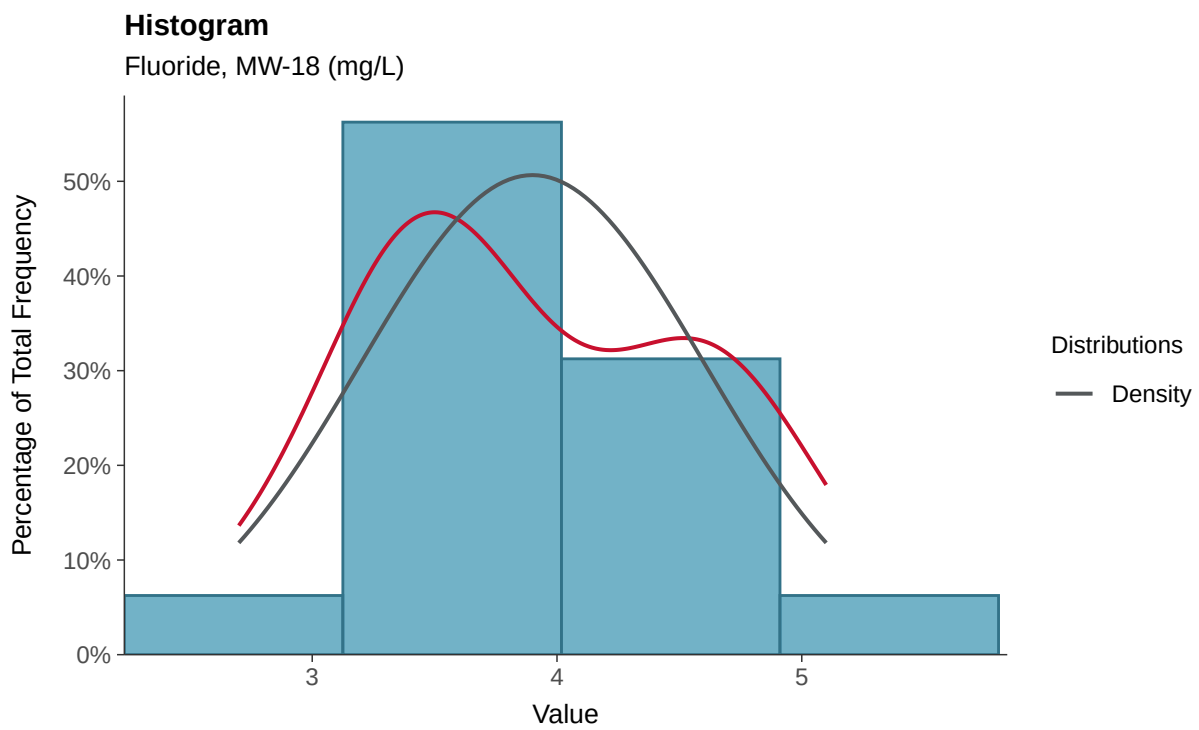
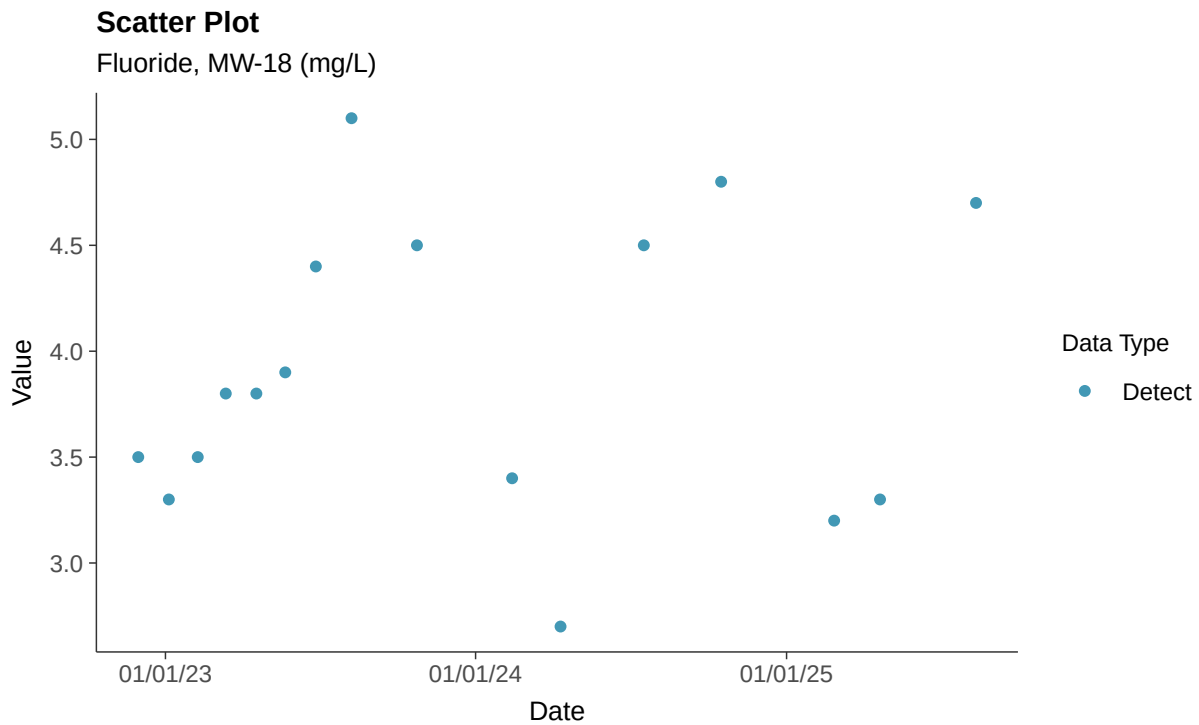
Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-18 (mg/L)



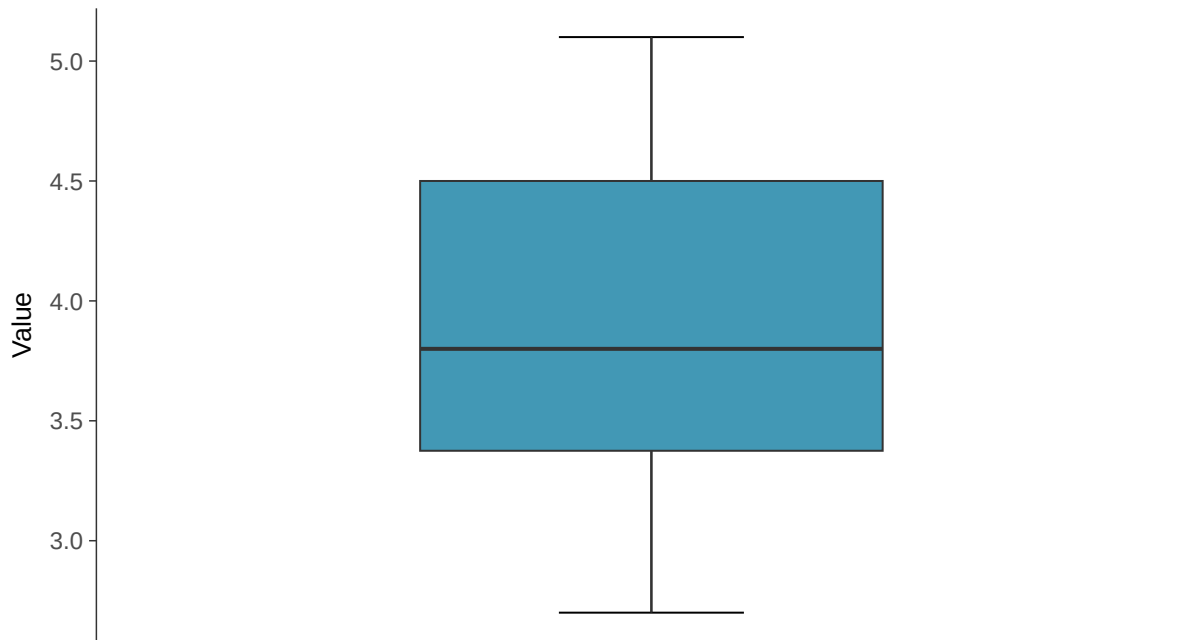
Appendix III: Fluoride, MW-18

ID: 28_1_3_112



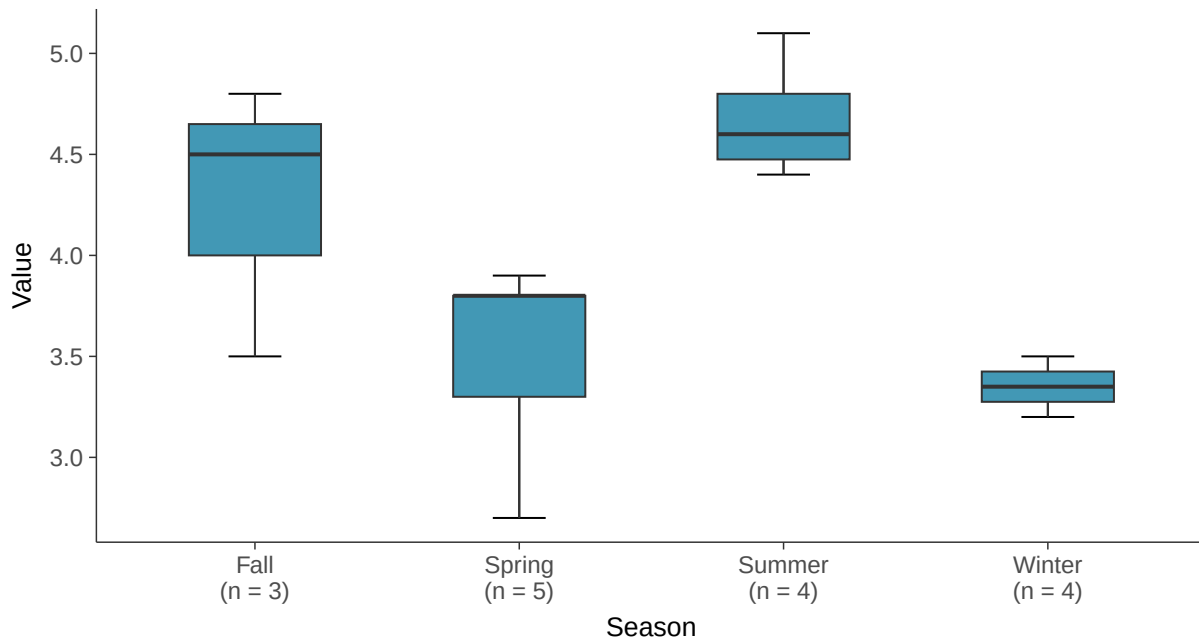
Boxplot

Fluoride, MW-18 (mg/L)



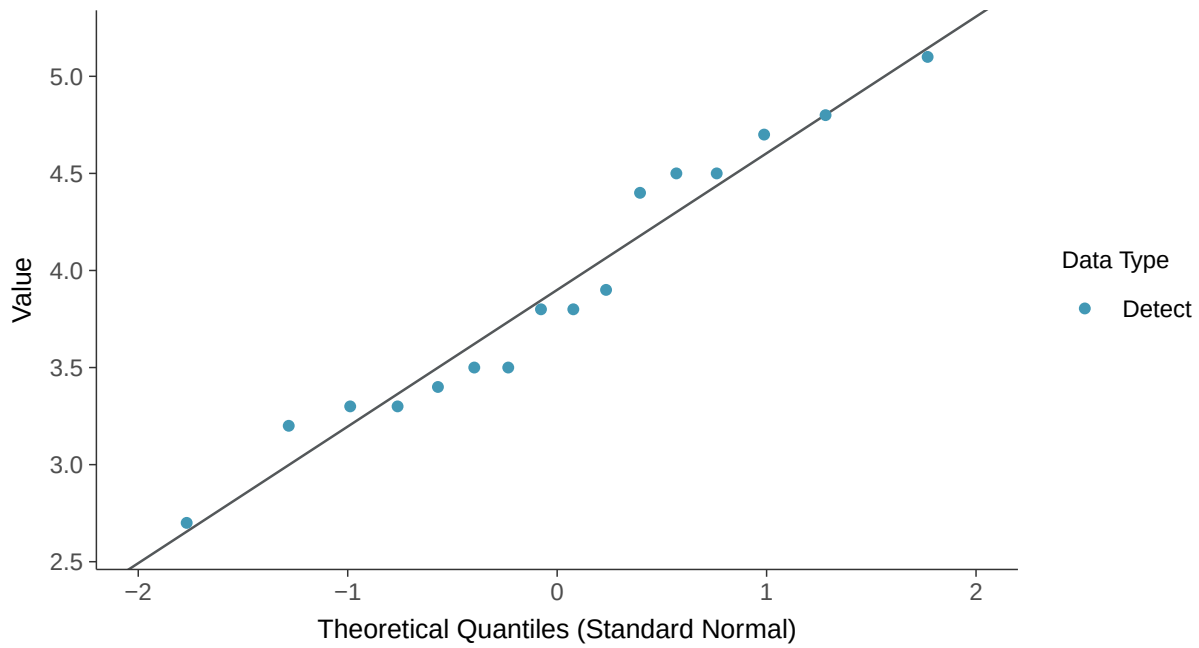
Boxplot by Season

Fluoride, MW-18 (mg/L)



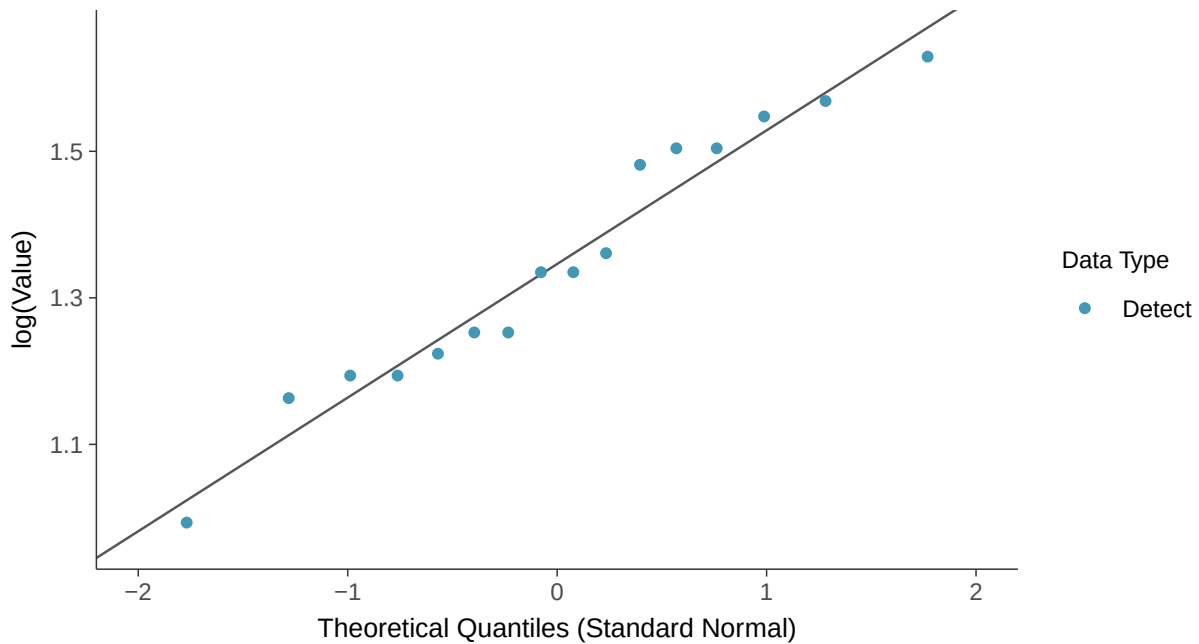
Normal Q-Q plot

Fluoride, MW-18 (mg/L)



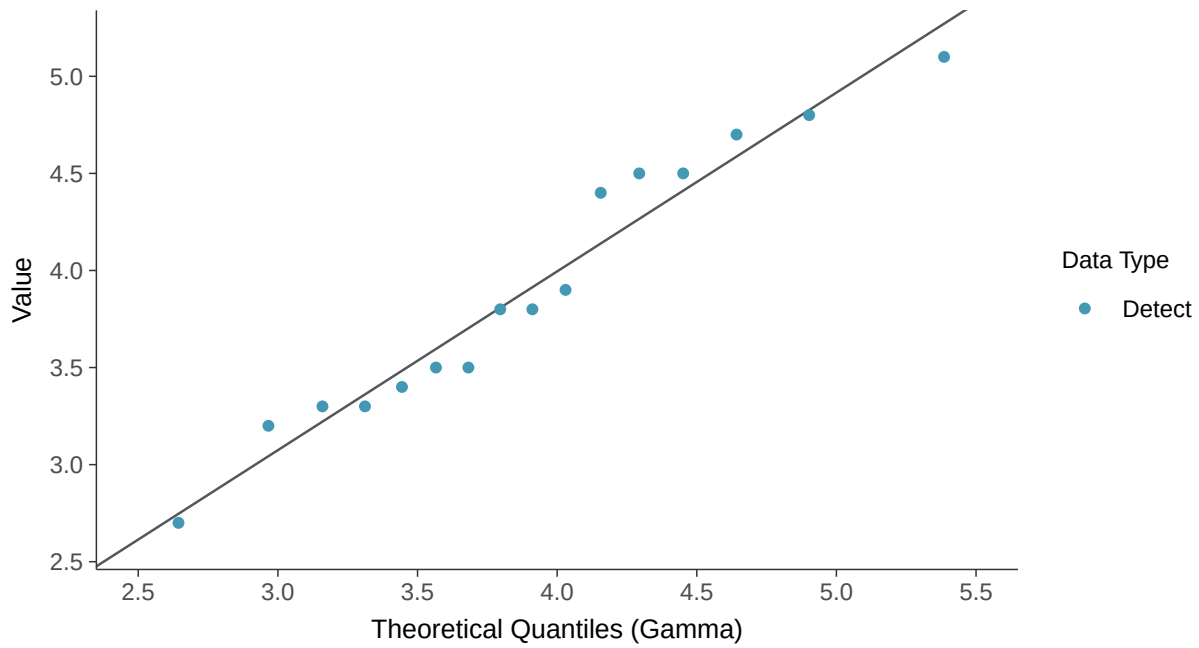
Lognormal Q-Q plot

Fluoride, MW-18 (mg/L)



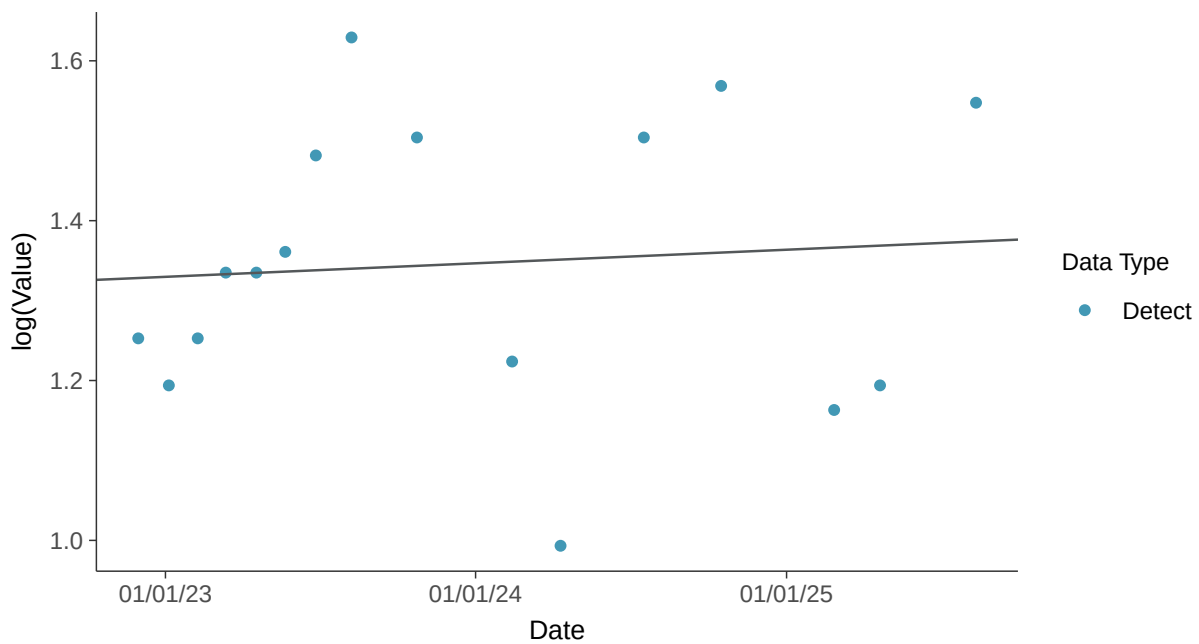
Gamma Q-Q plot

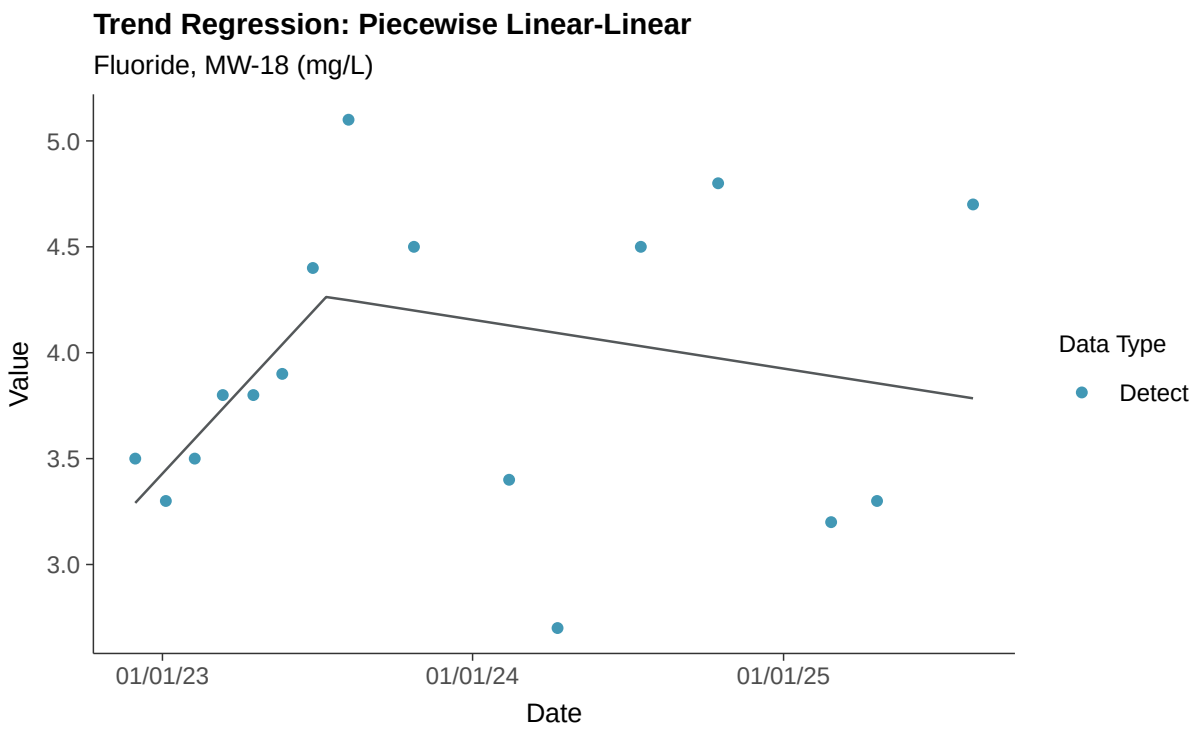
Fluoride, MW-18 (mg/L)



Trend Regression: Lognormal MLE

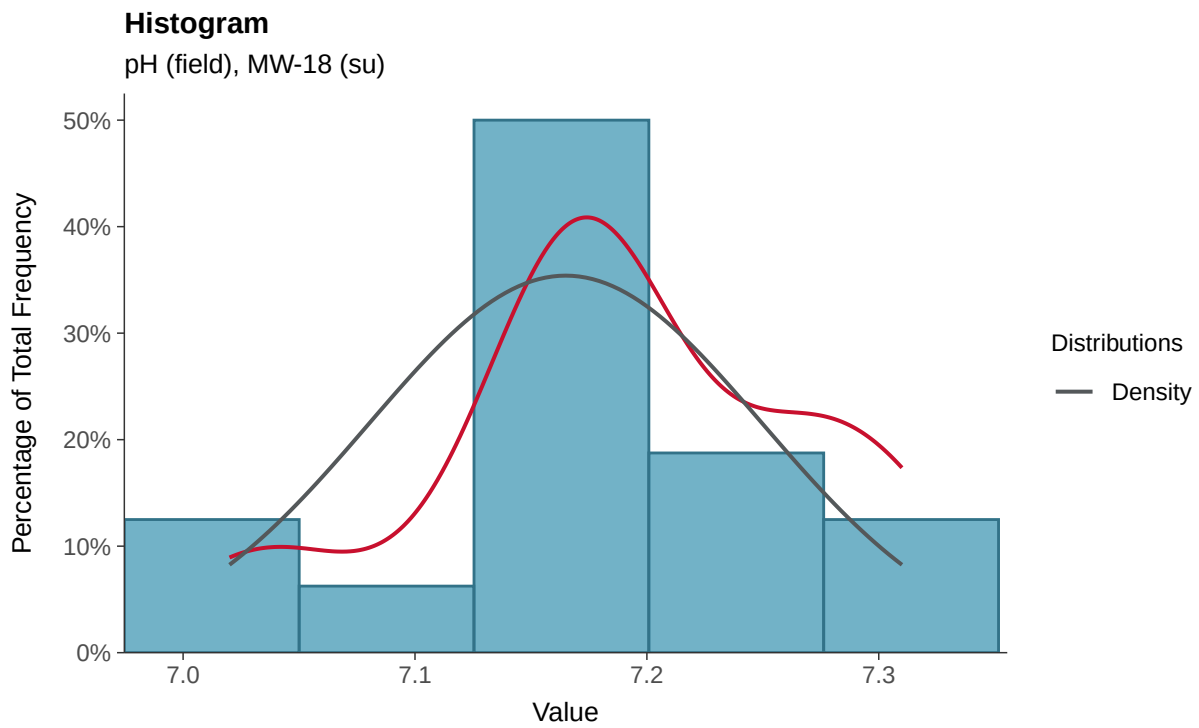
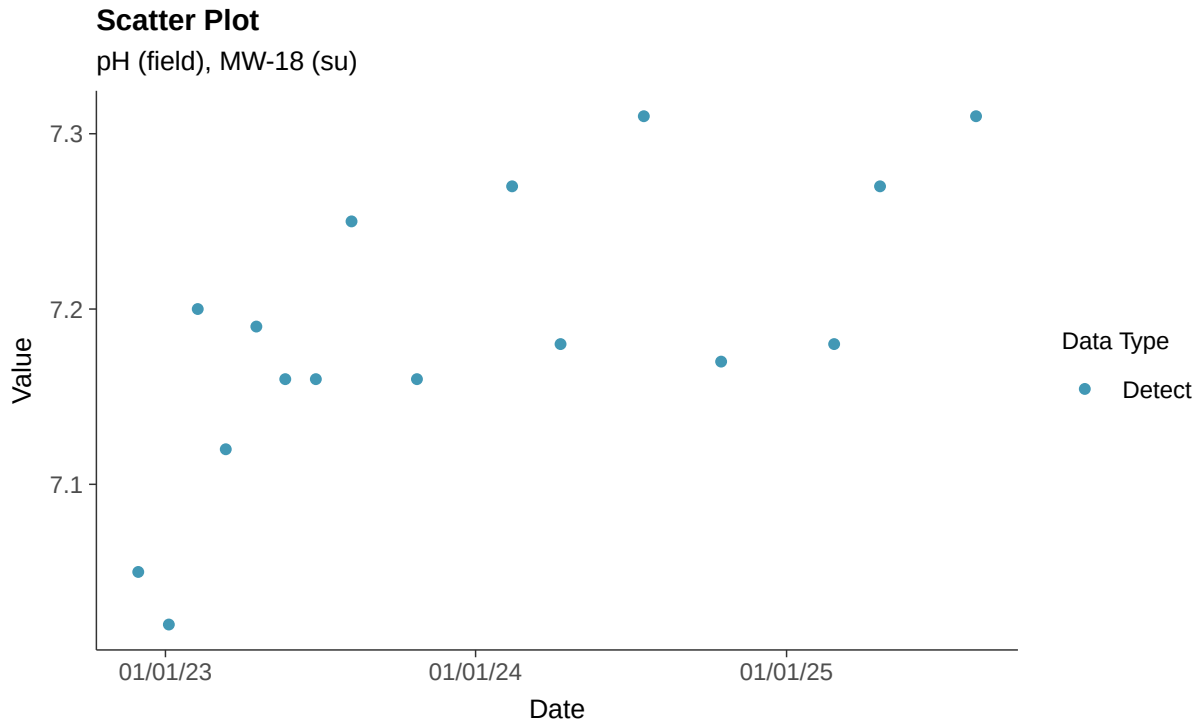
Fluoride, MW-18 (mg/L)





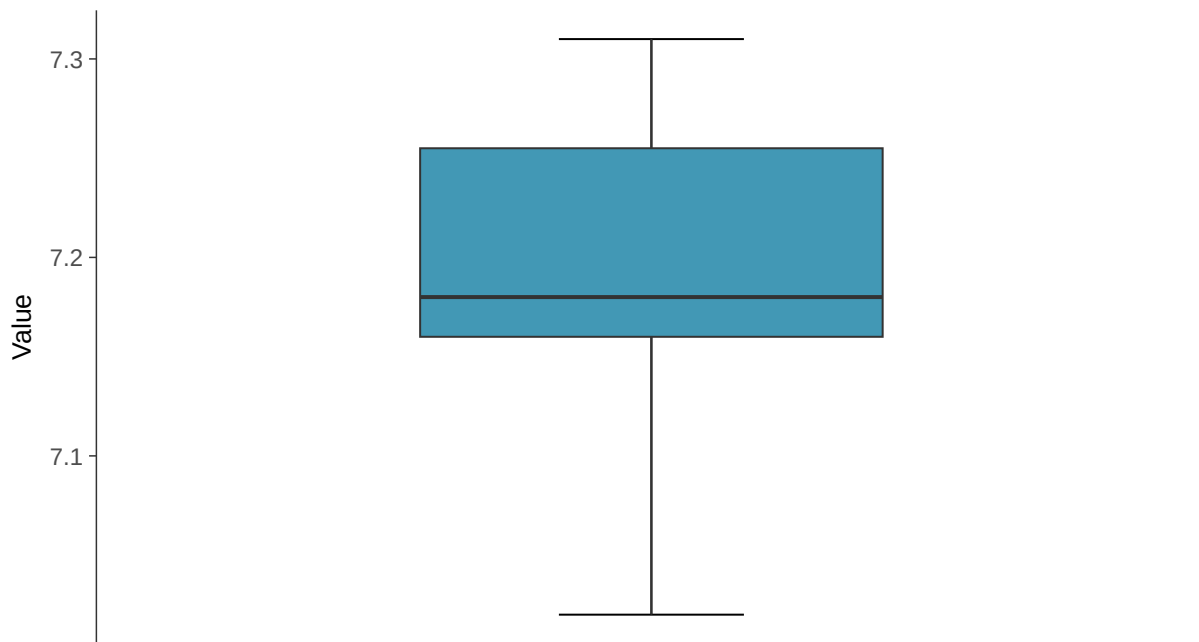
Appendix III: pH (field), MW-18

ID: 28_1_3_120



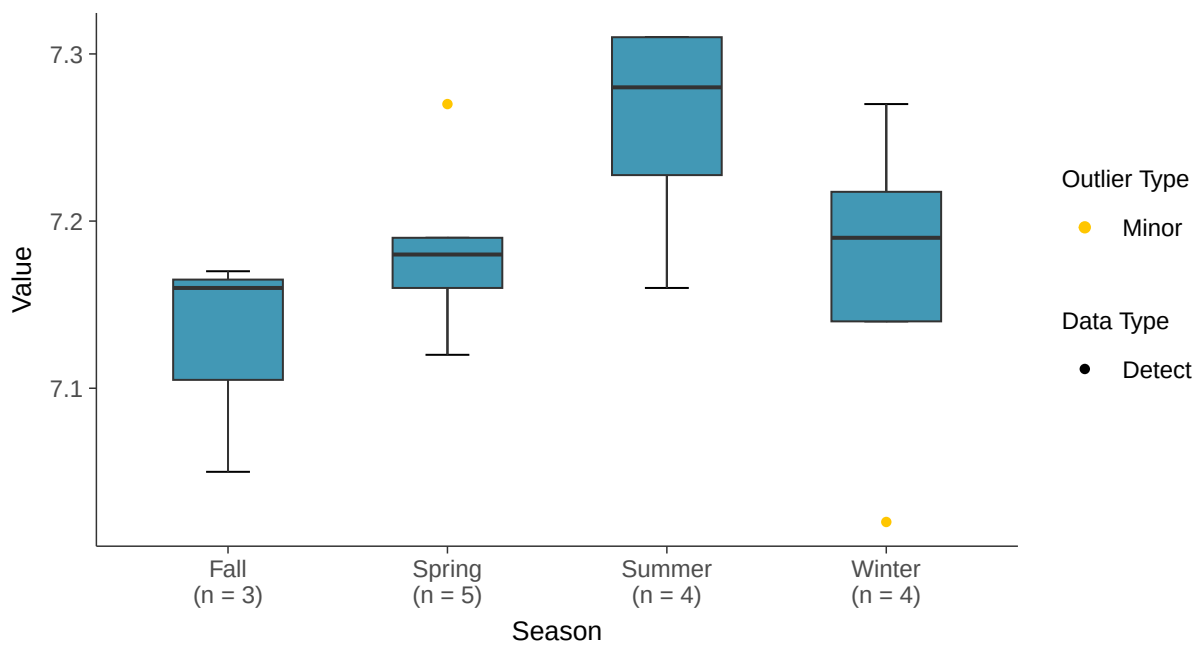
Boxplot

pH (field), MW-18 (su)

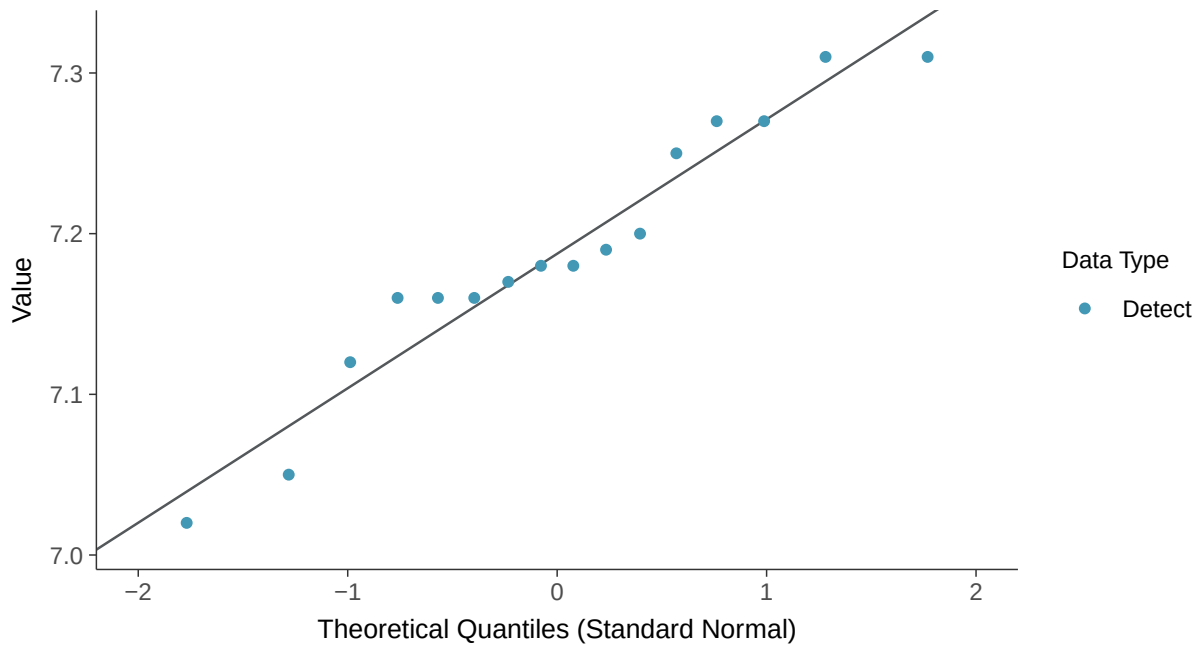


Boxplot by Season

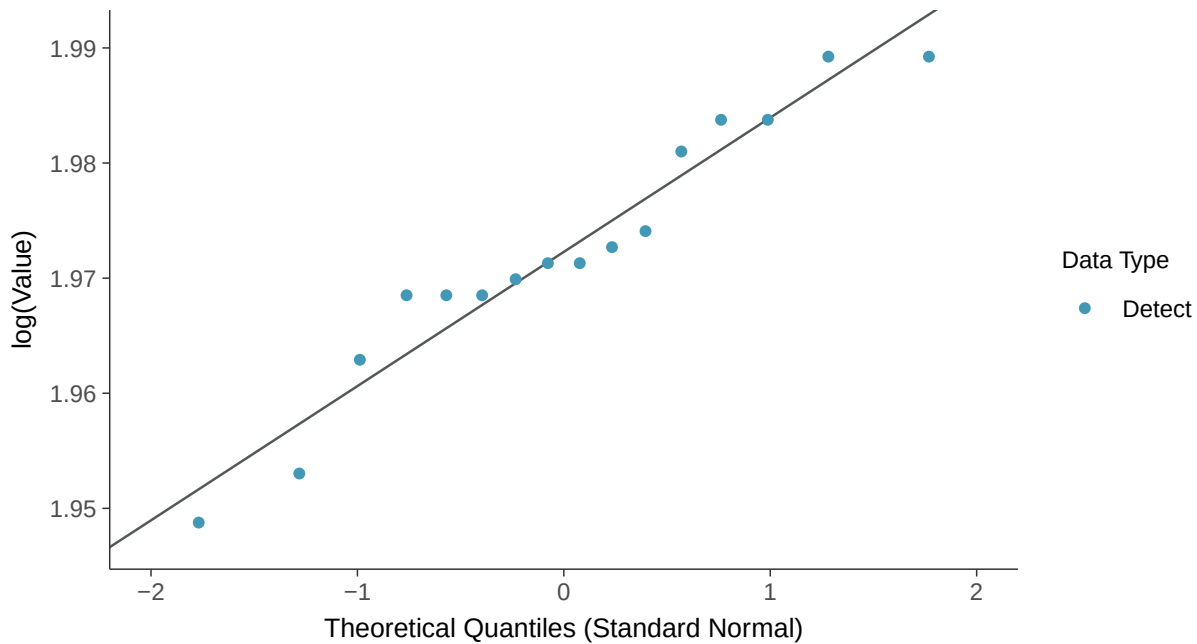
pH (field), MW-18 (su)

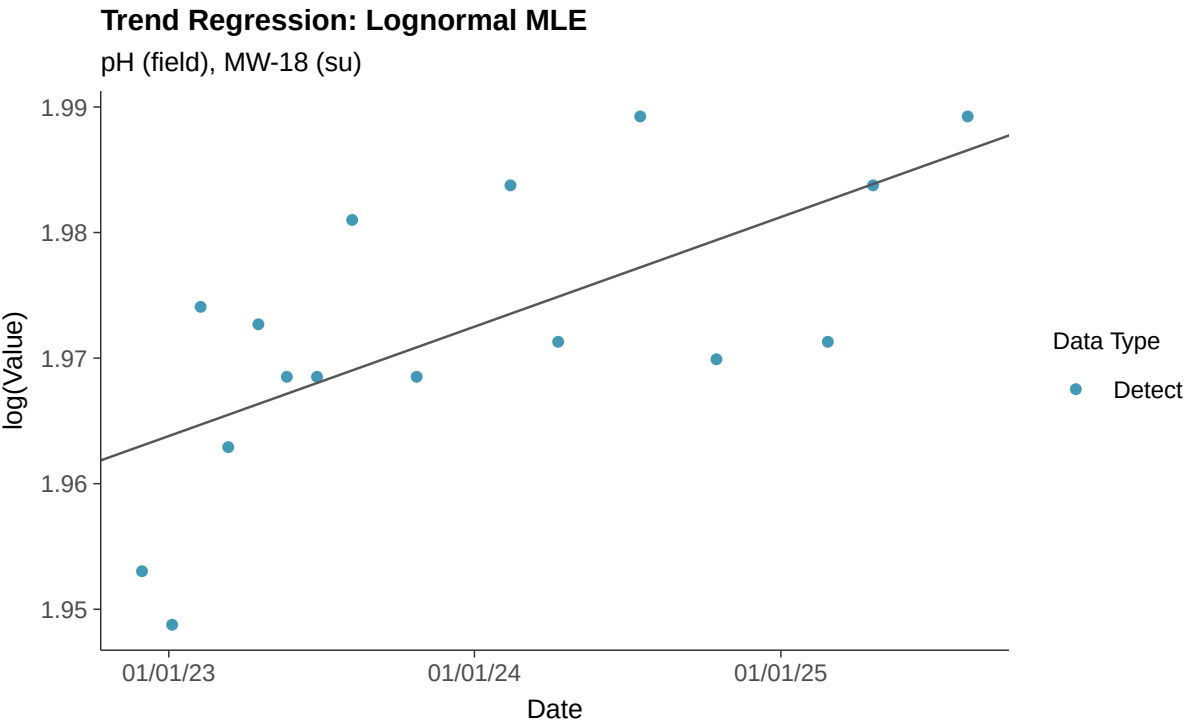
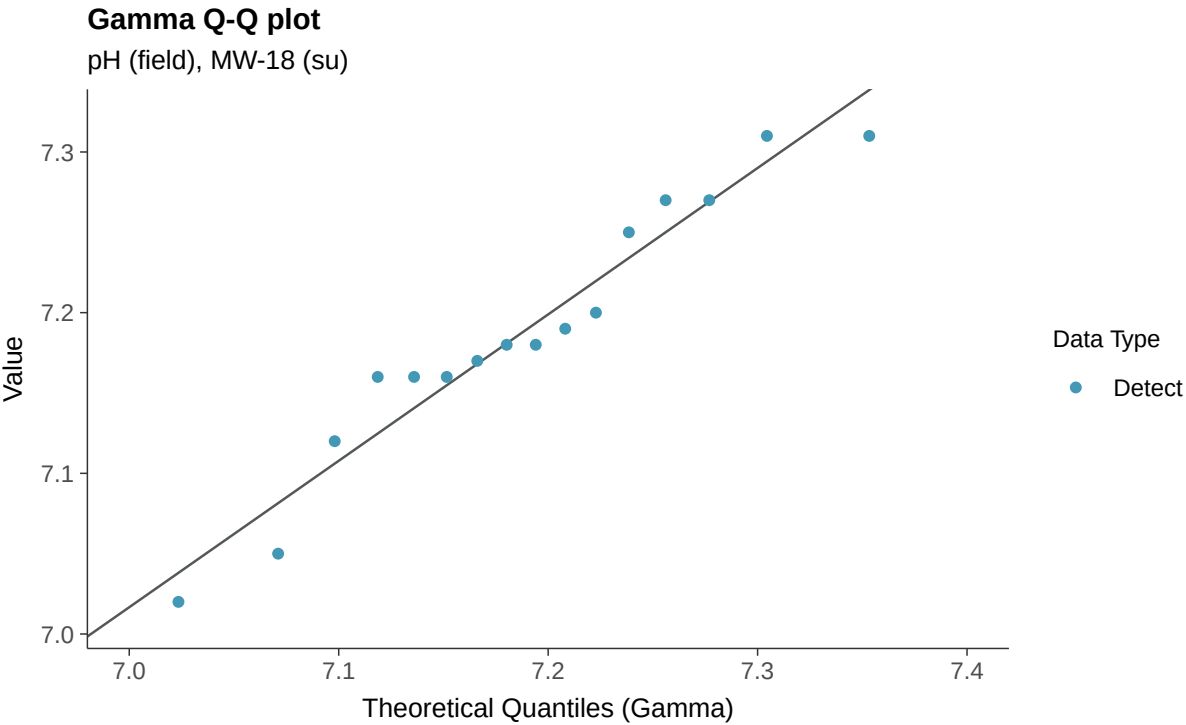


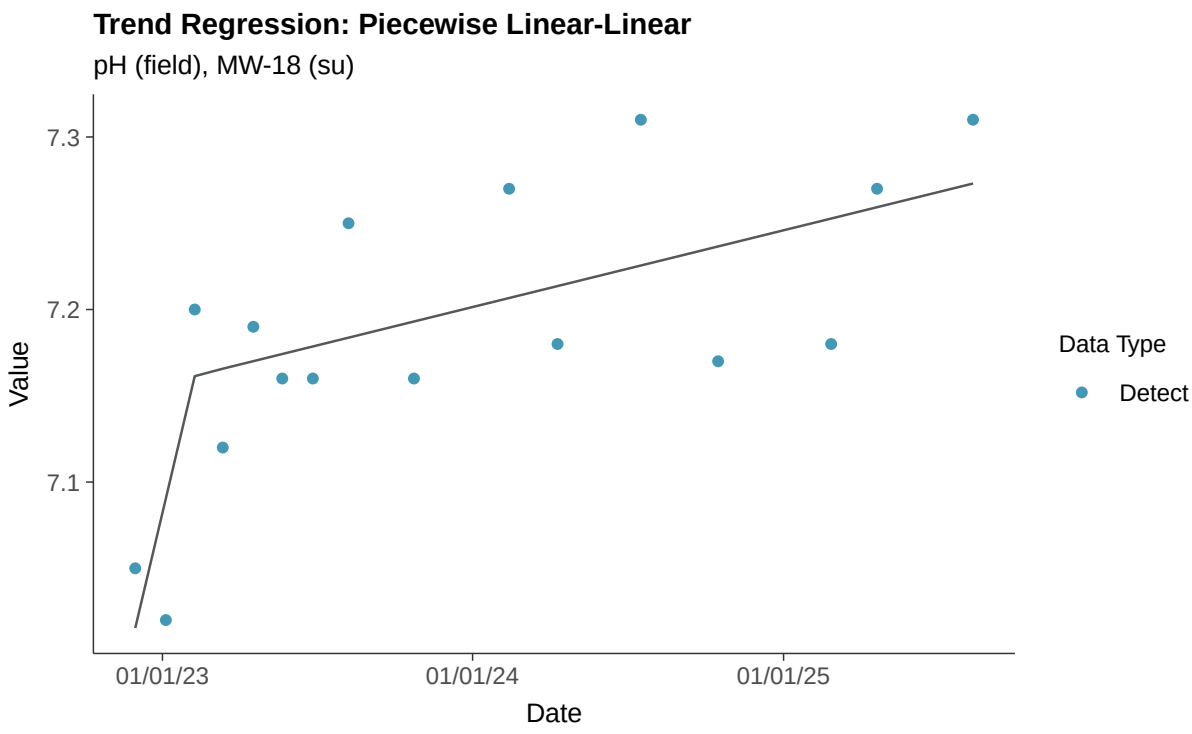
Normal Q-Q plot
pH (field), MW-18 (su)



Lognormal Q-Q plot
pH (field), MW-18 (su)





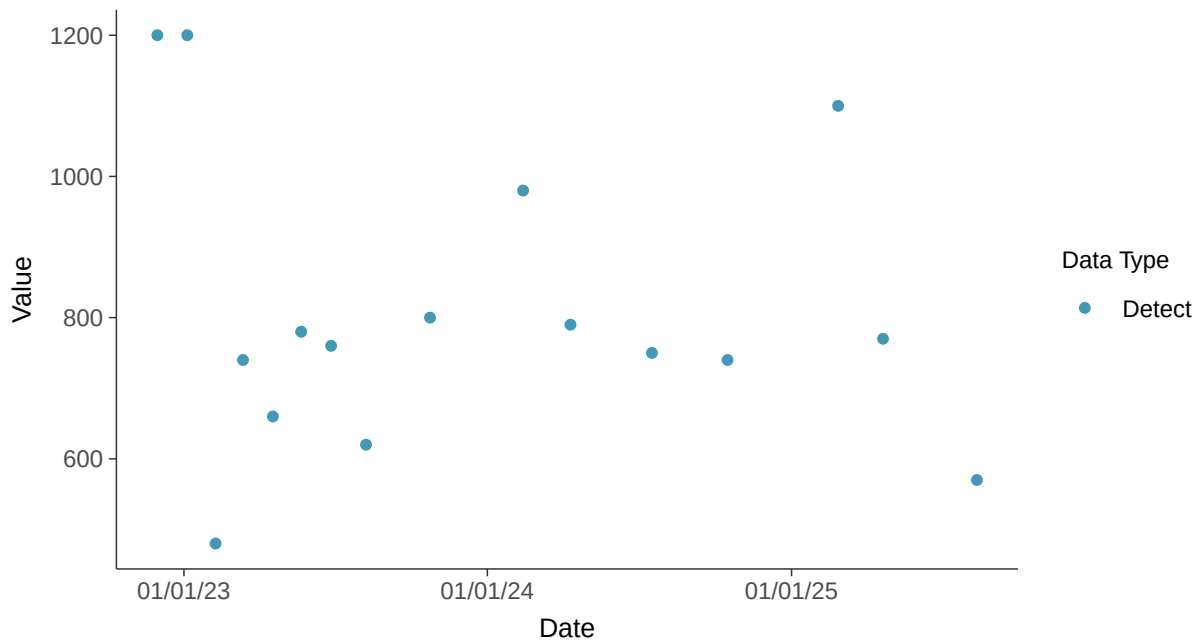


Appendix III: Sulfate (as SO₄), MW-18

ID: 28_1_3_124

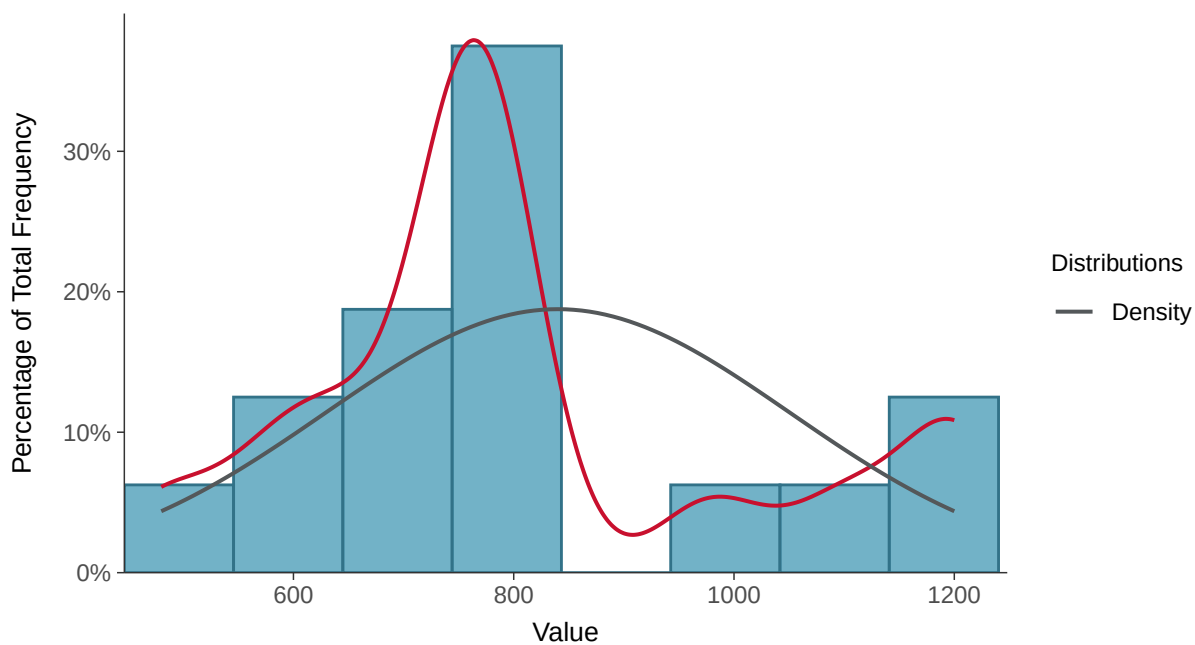
Scatter Plot

Sulfate (as SO₄), MW-18 (mg/L)



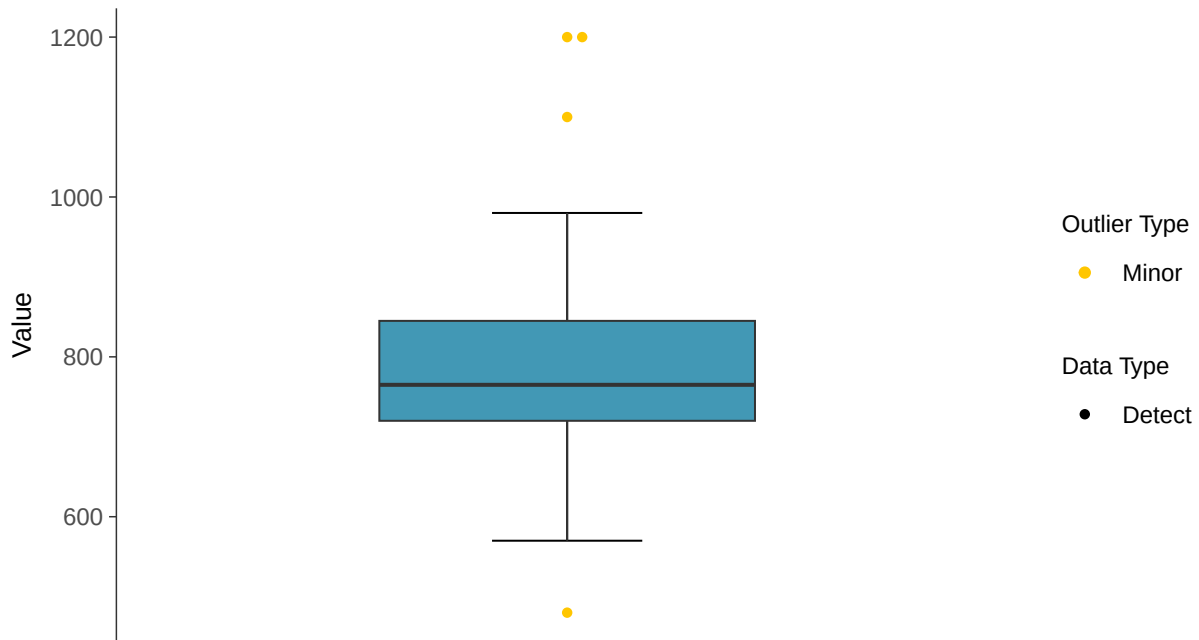
Histogram

Sulfate (as SO₄), MW-18 (mg/L)



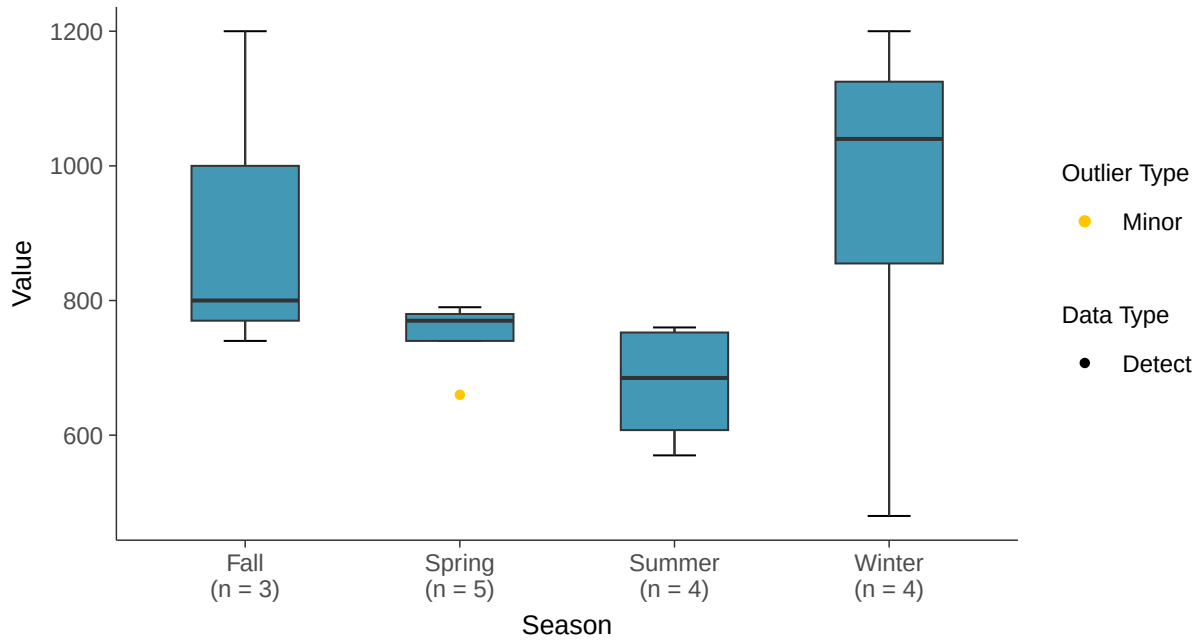
Boxplot

Sulfate (as SO₄), MW-18 (mg/L)



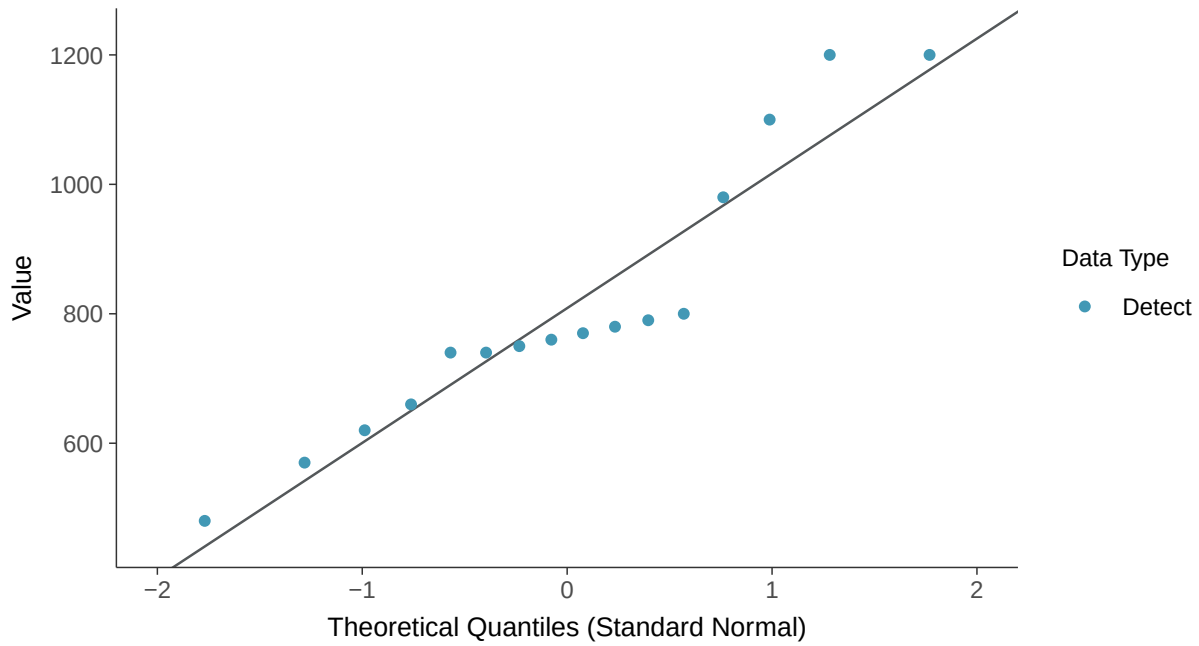
Boxplot by Season

Sulfate (as SO₄), MW-18 (mg/L)



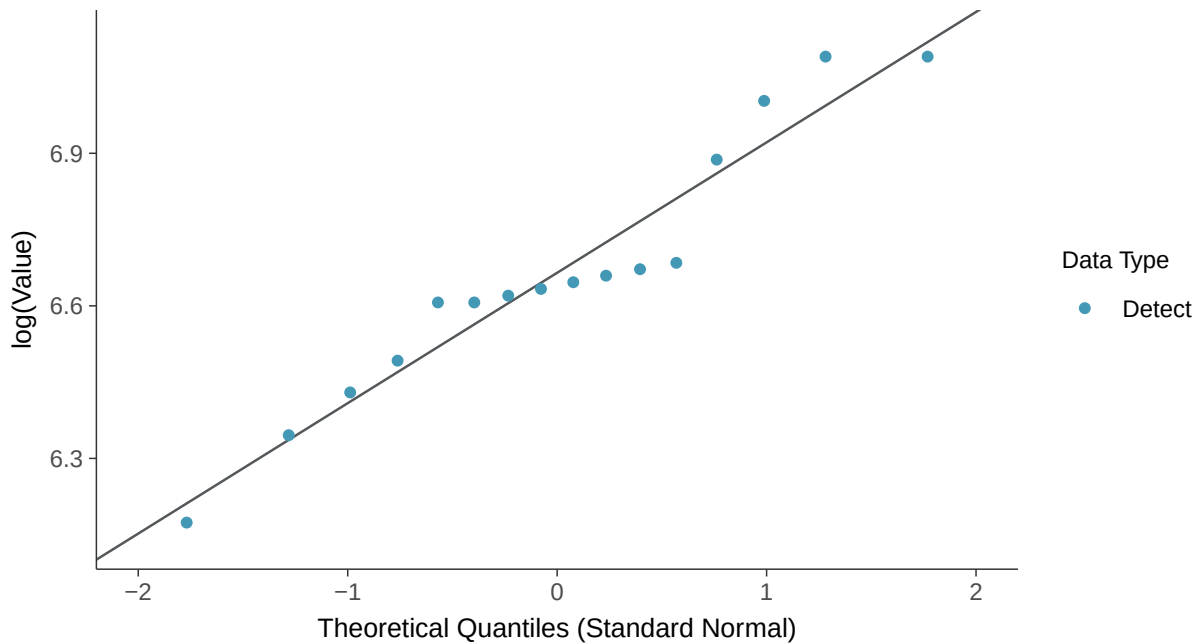
Normal Q-Q plot

Sulfate (as SO₄), MW-18 (mg/L)



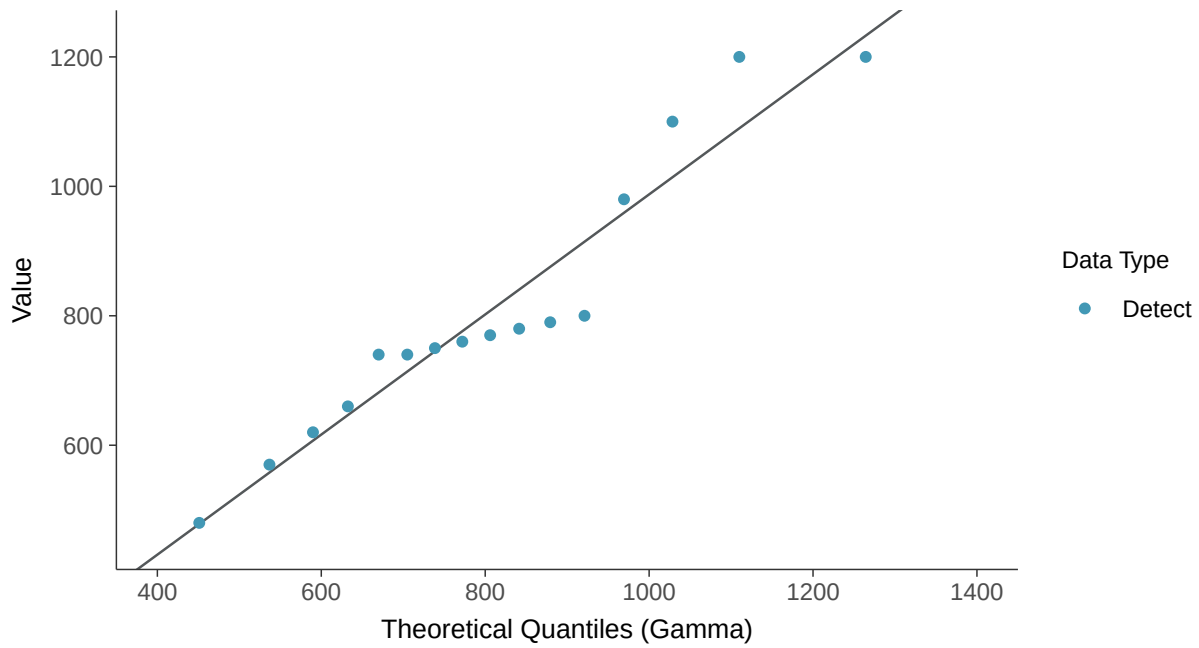
Lognormal Q-Q plot

Sulfate (as SO₄), MW-18 (mg/L)



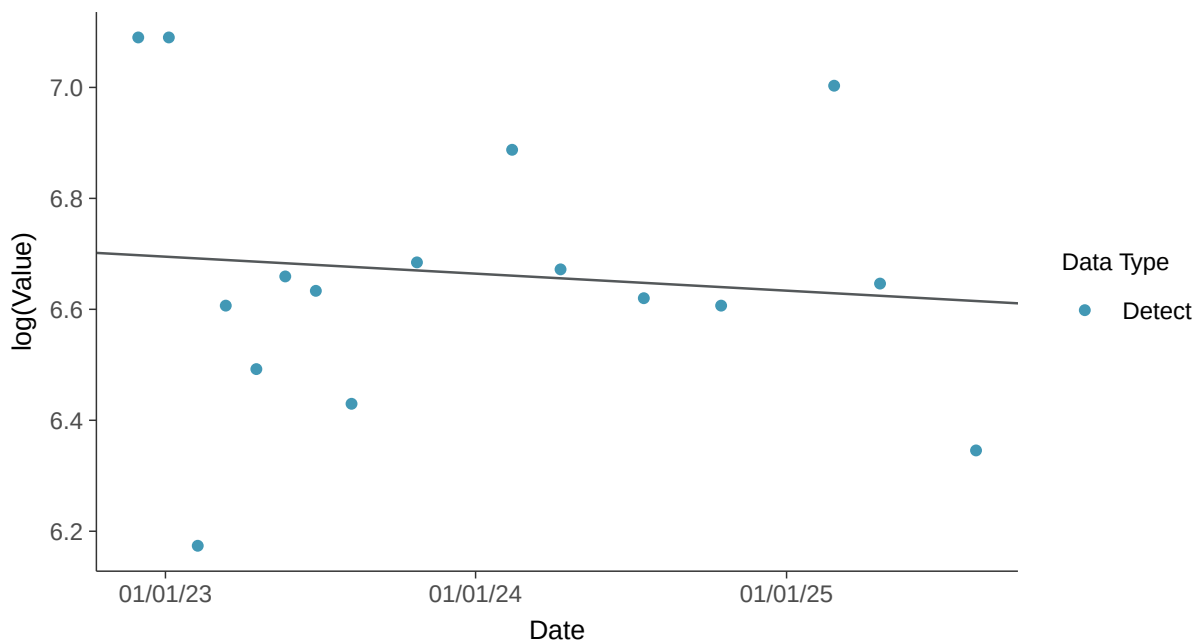
Gamma Q-Q plot

Sulfate (as SO₄), MW-18 (mg/L)



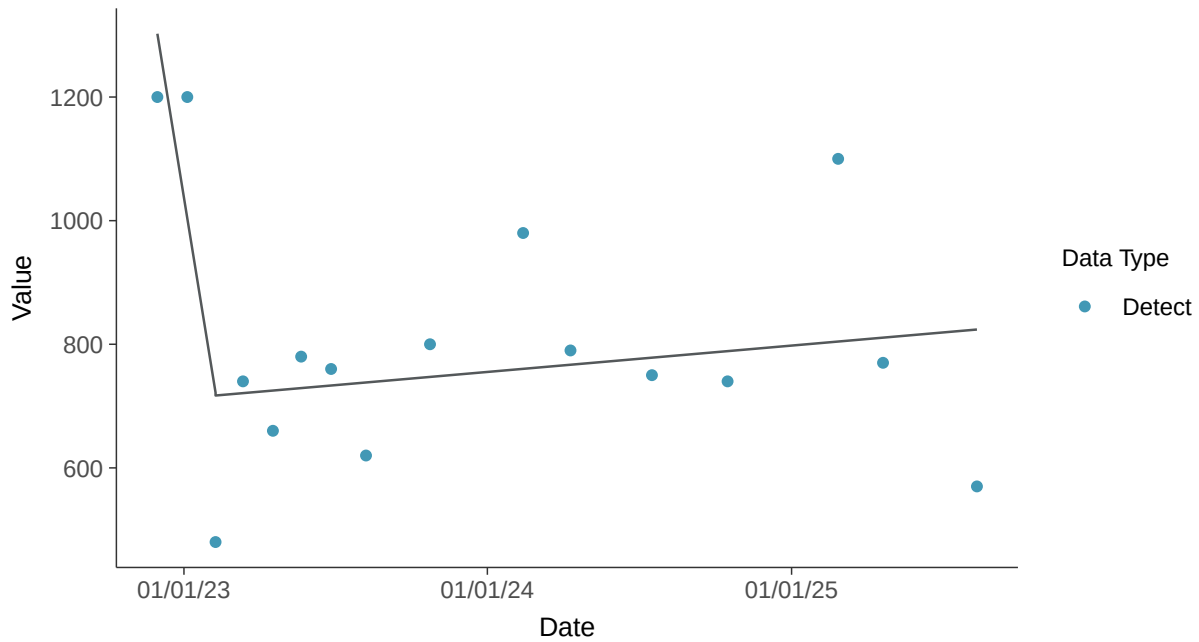
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-18 (mg/L)



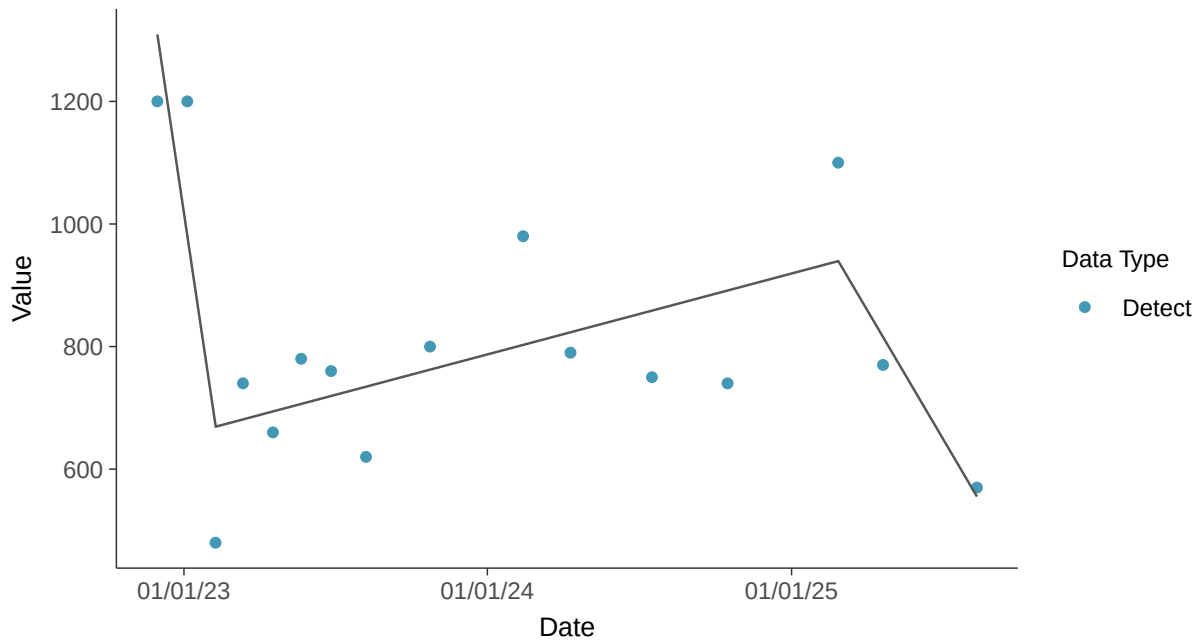
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-18 (mg/L)

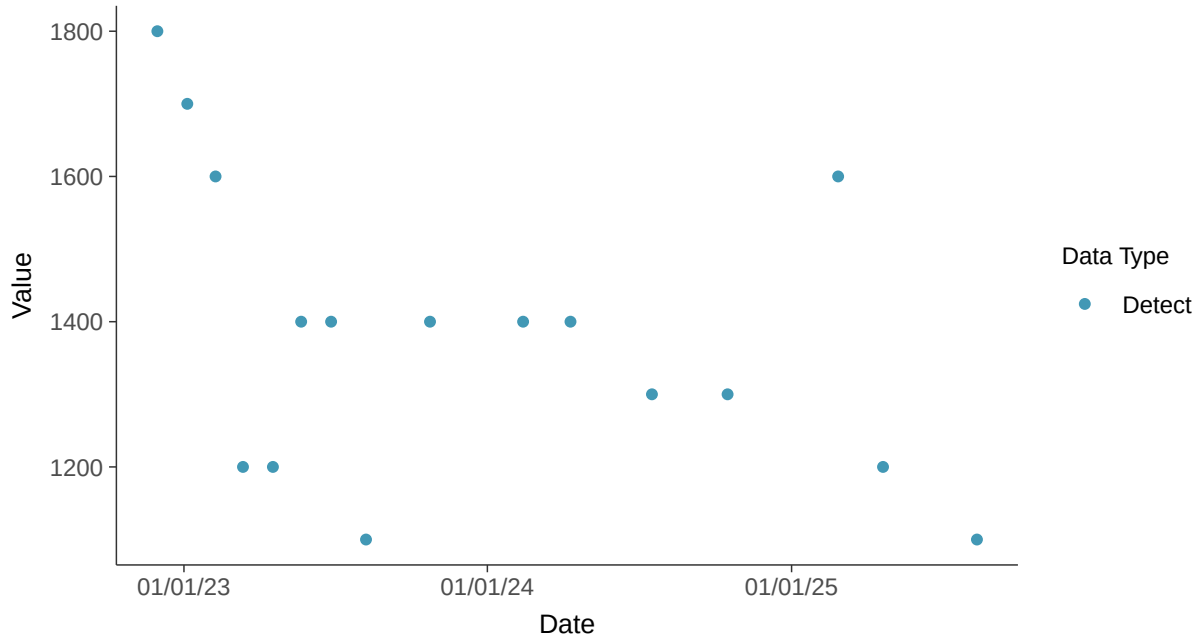


Appendix III: Total Dissolved Solids, MW-18

ID: 28_1_3_126

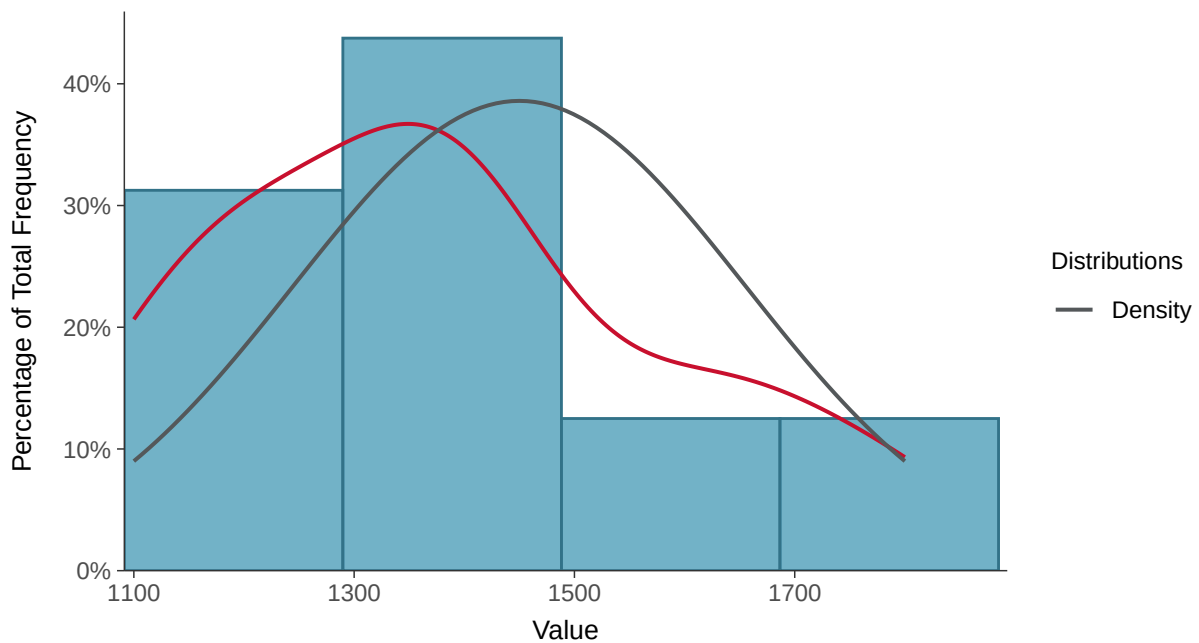
Scatter Plot

Total Dissolved Solids, MW-18 (mg/L)



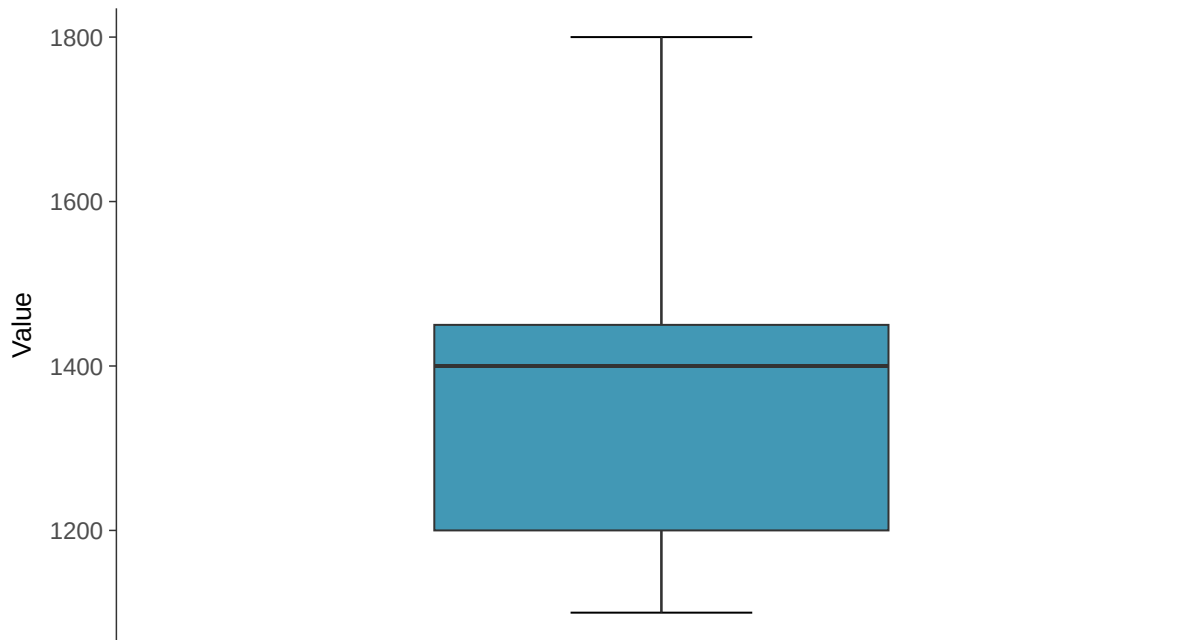
Histogram

Total Dissolved Solids, MW-18 (mg/L)



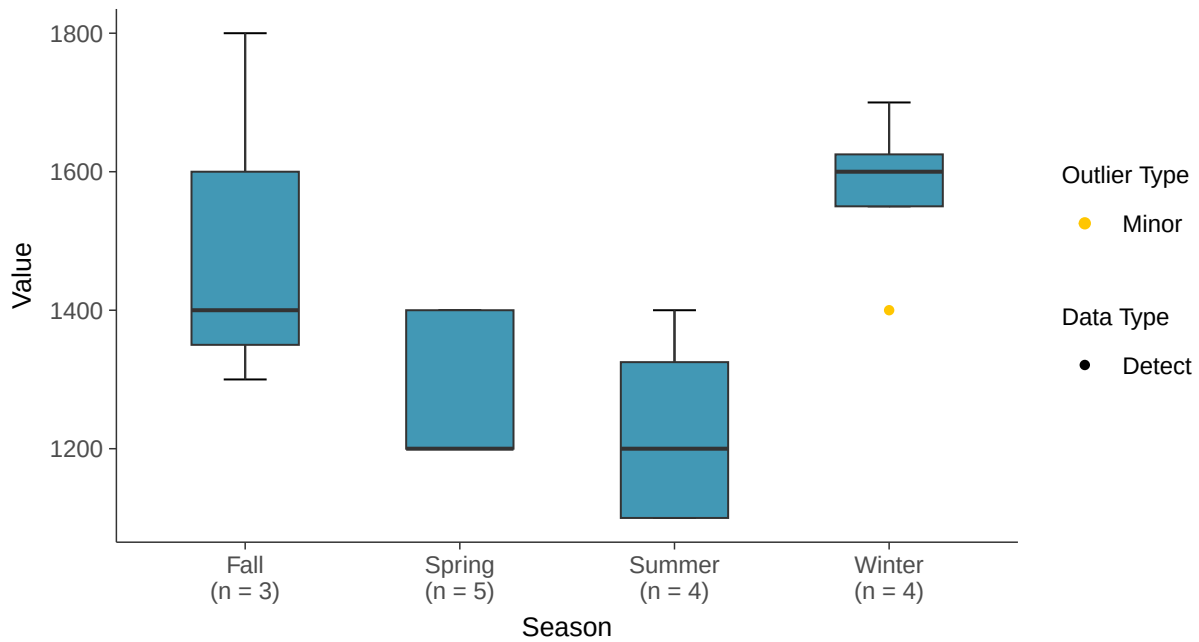
Boxplot

Total Dissolved Solids, MW-18 (mg/L)



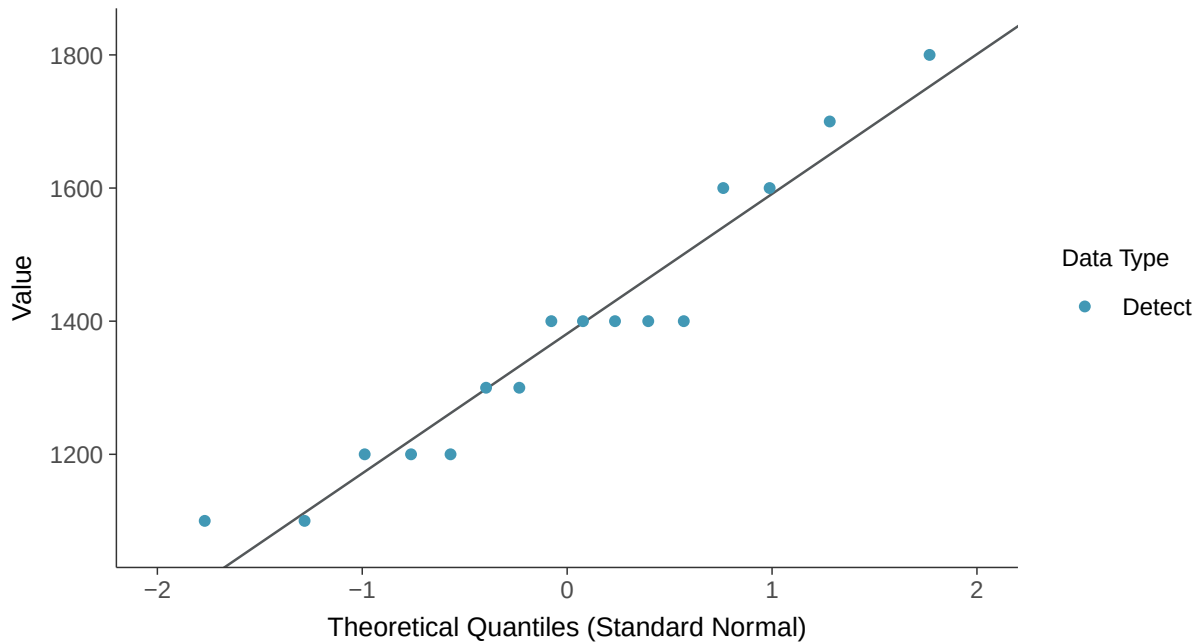
Boxplot by Season

Total Dissolved Solids, MW-18 (mg/L)



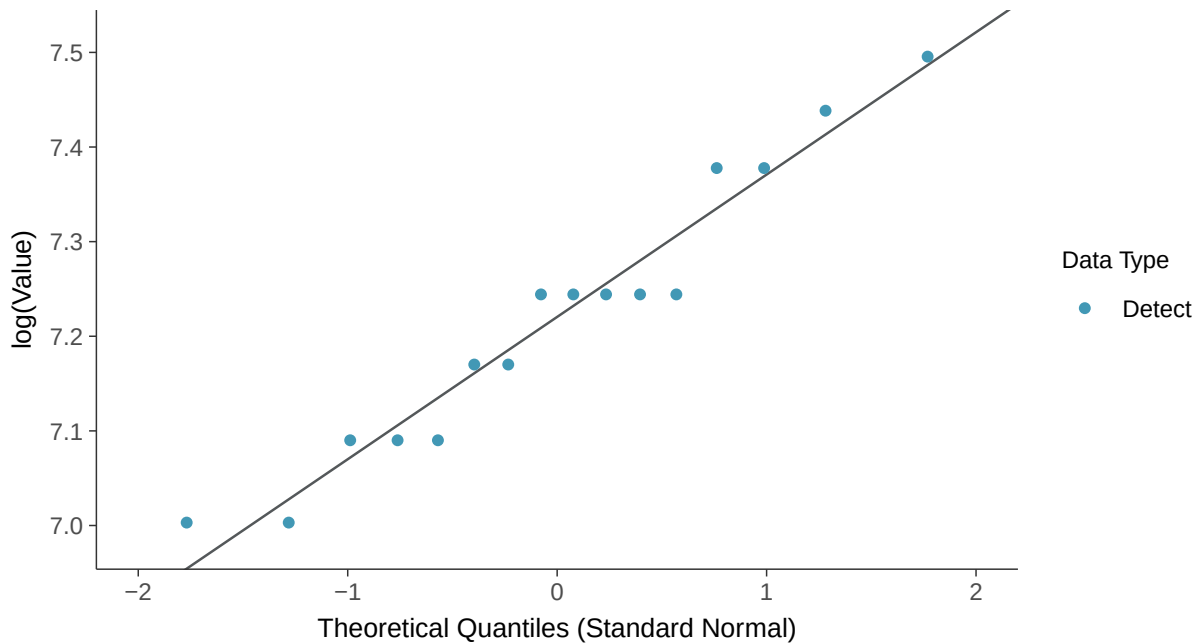
Normal Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



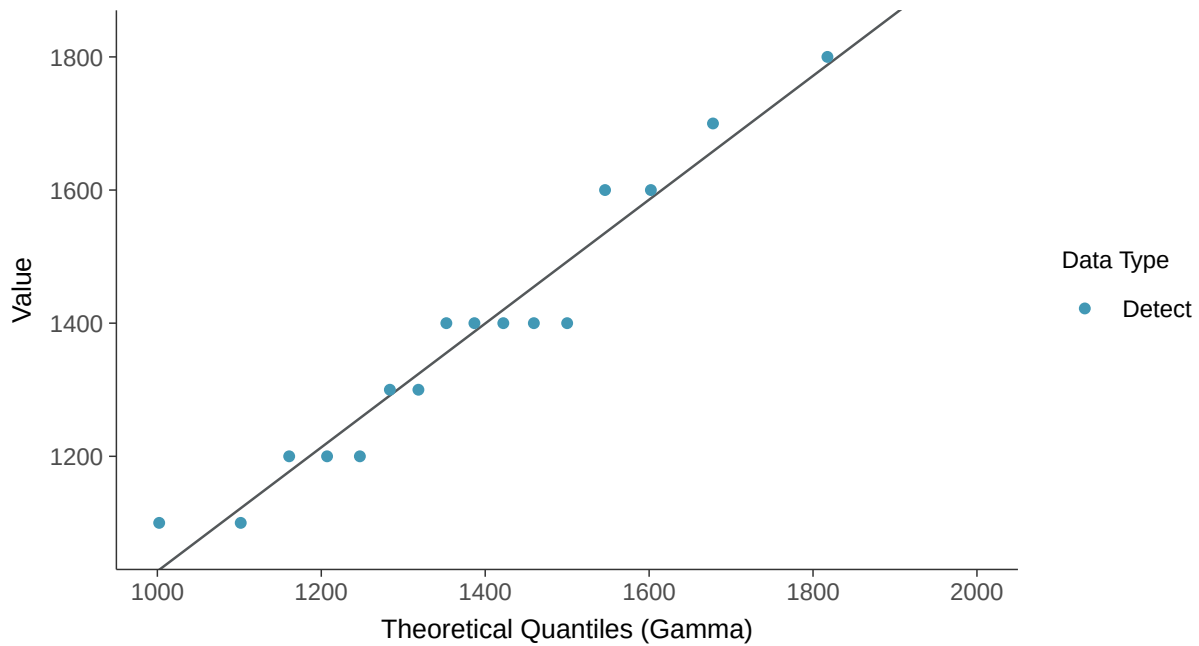
Lognormal Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



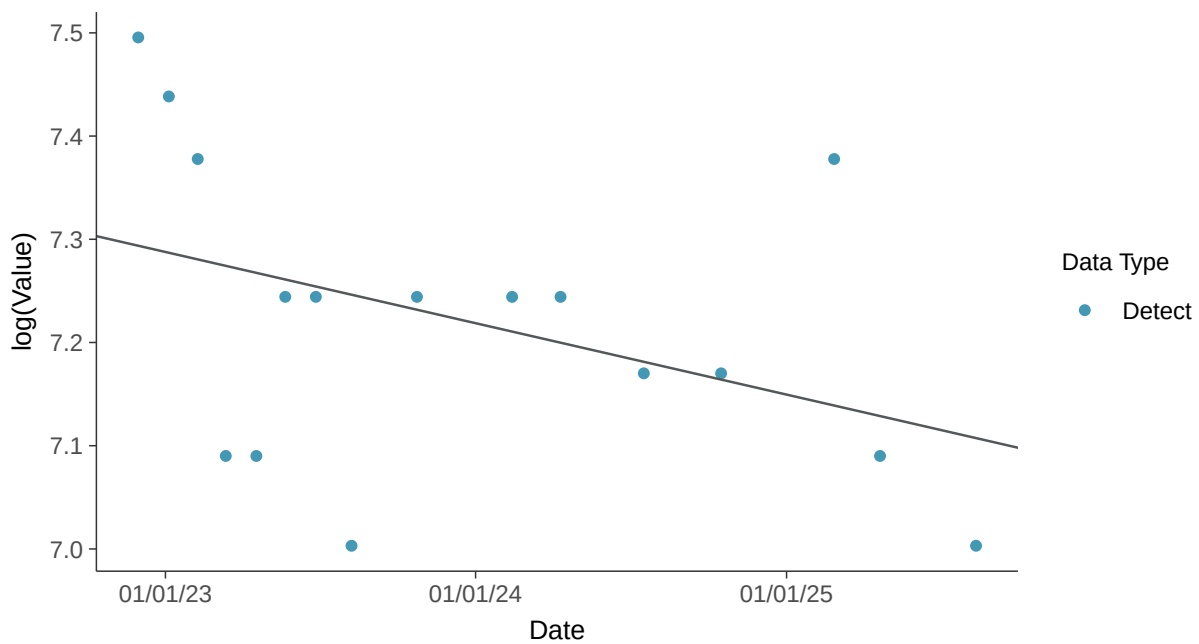
Gamma Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



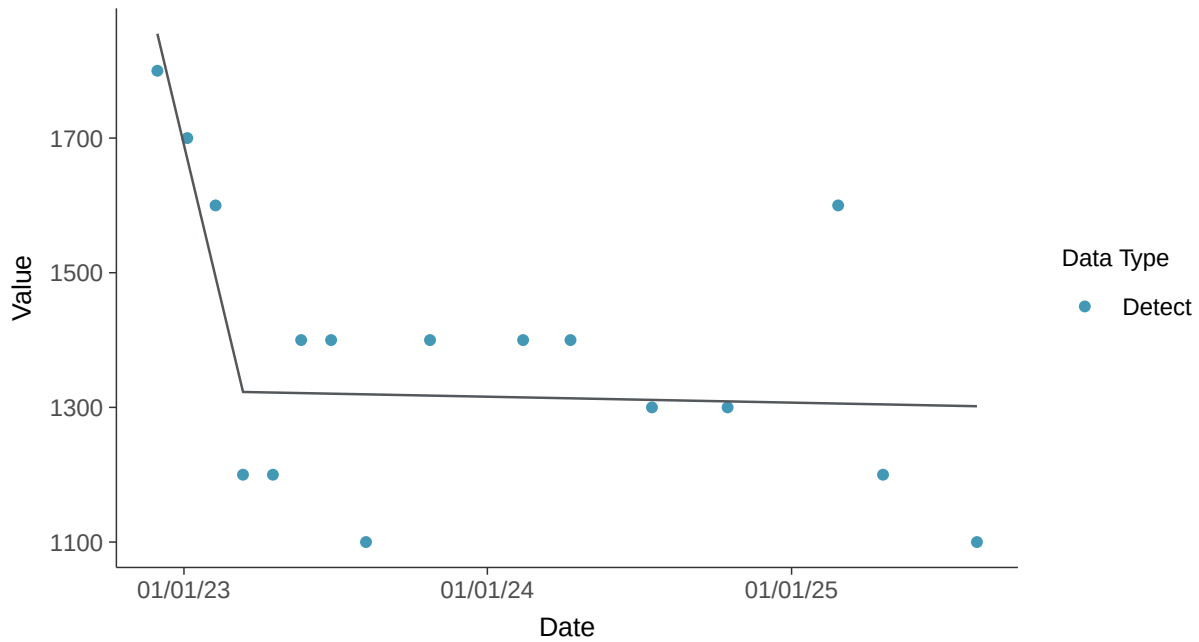
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-18 (mg/L)



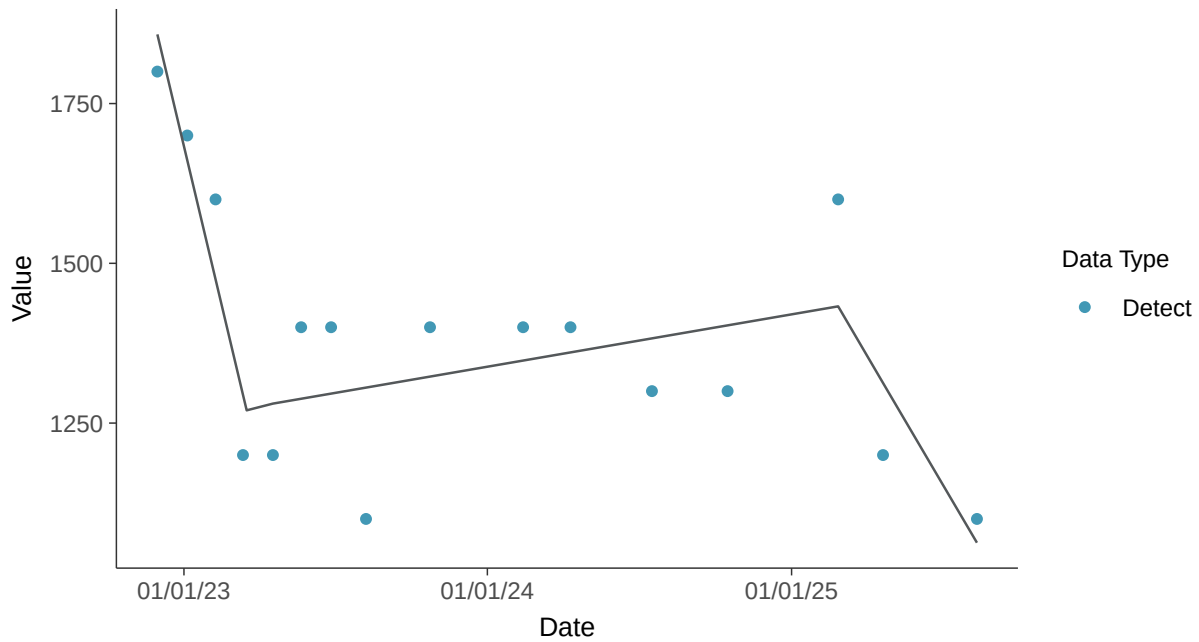
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-18 (mg/L)



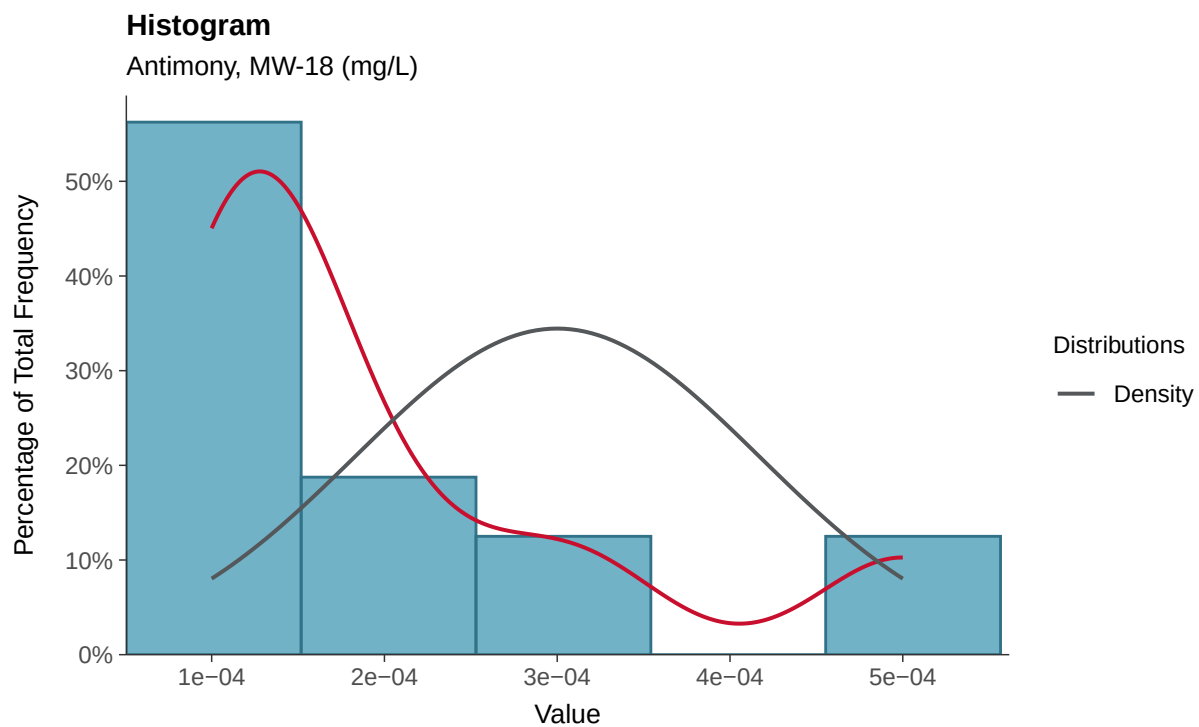
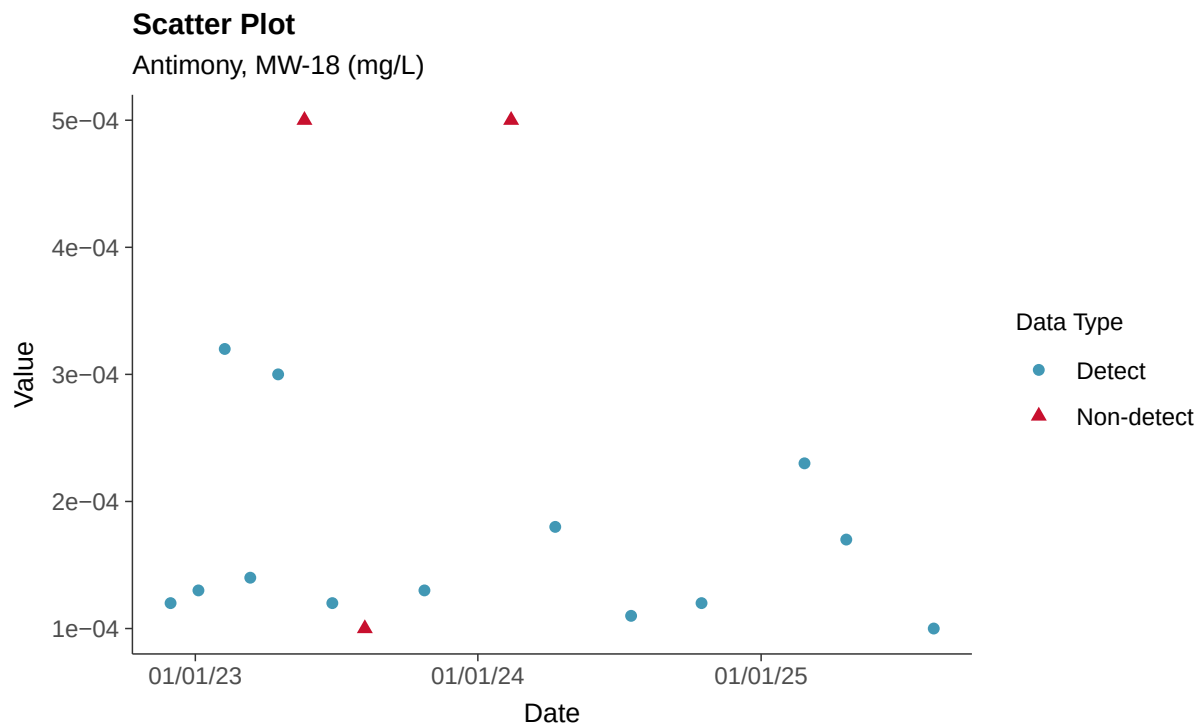
Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-18 (mg/L)



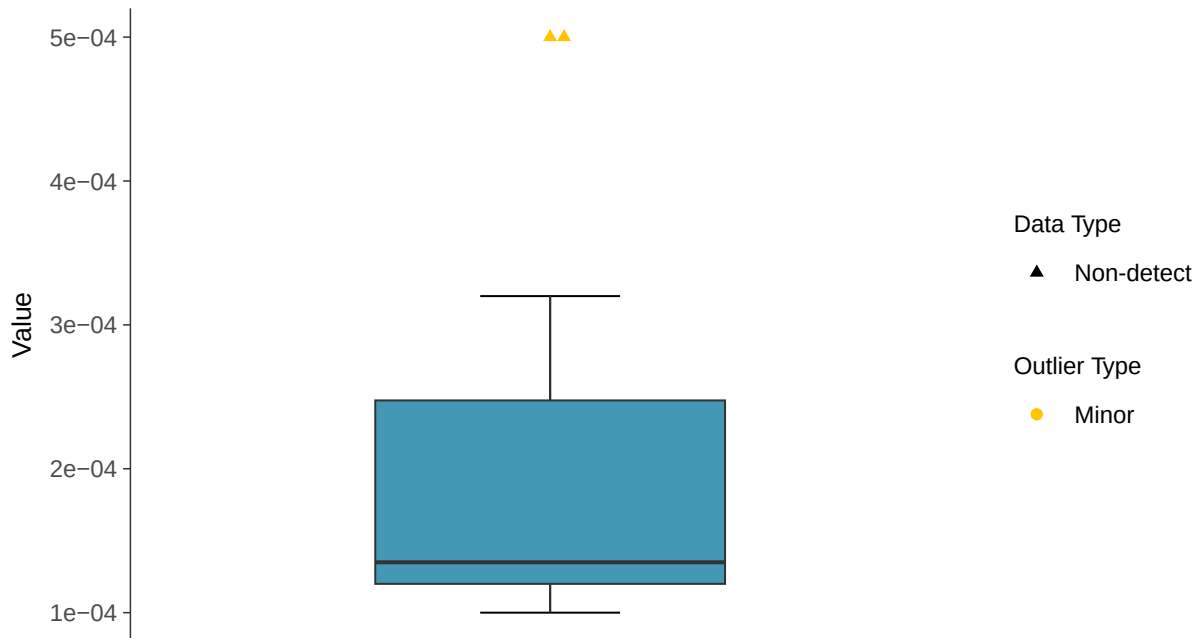
Appendix IV: Antimony, MW-18

ID: 28_1_4_101



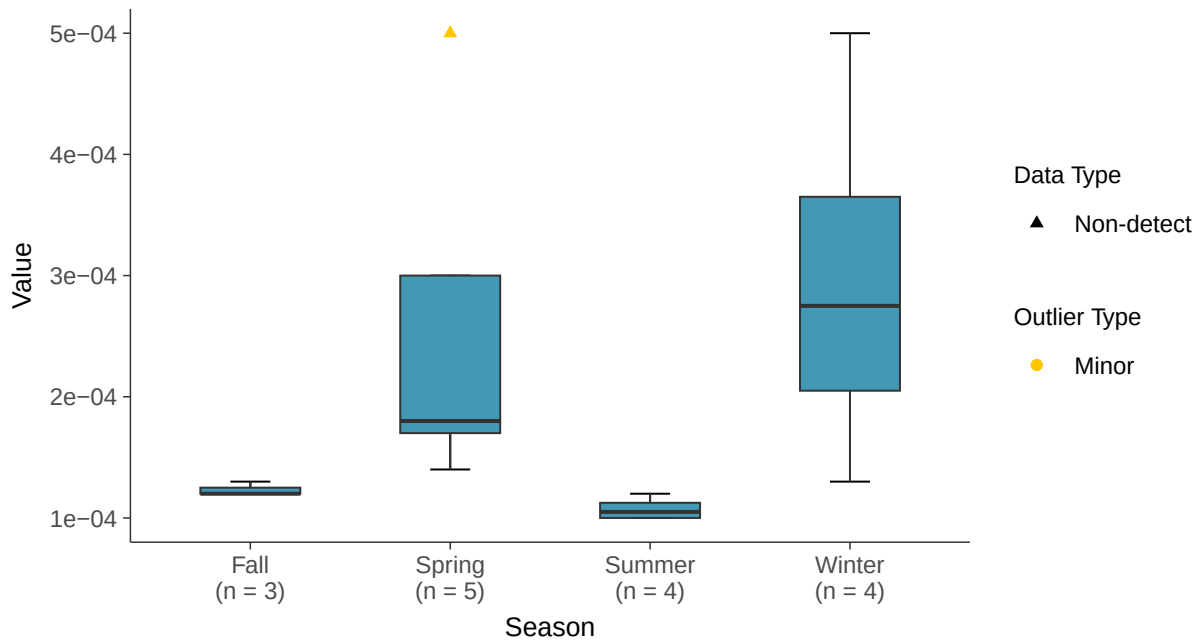
Boxplot

Antimony, MW-18 (mg/L)



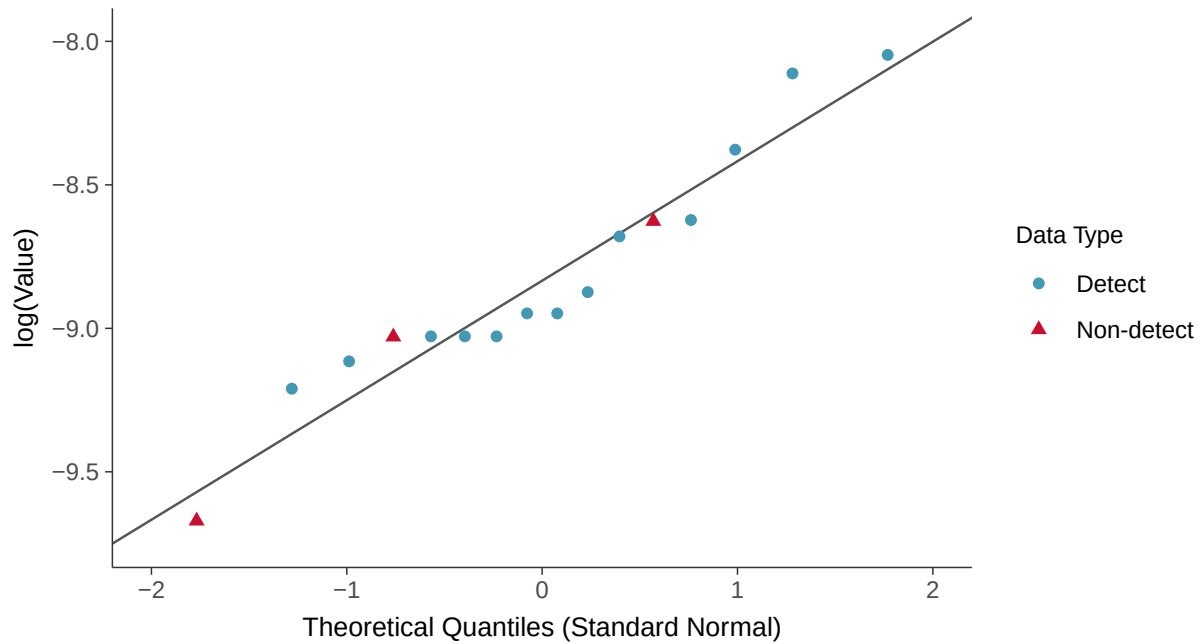
Boxplot by Season

Antimony, MW-18 (mg/L)



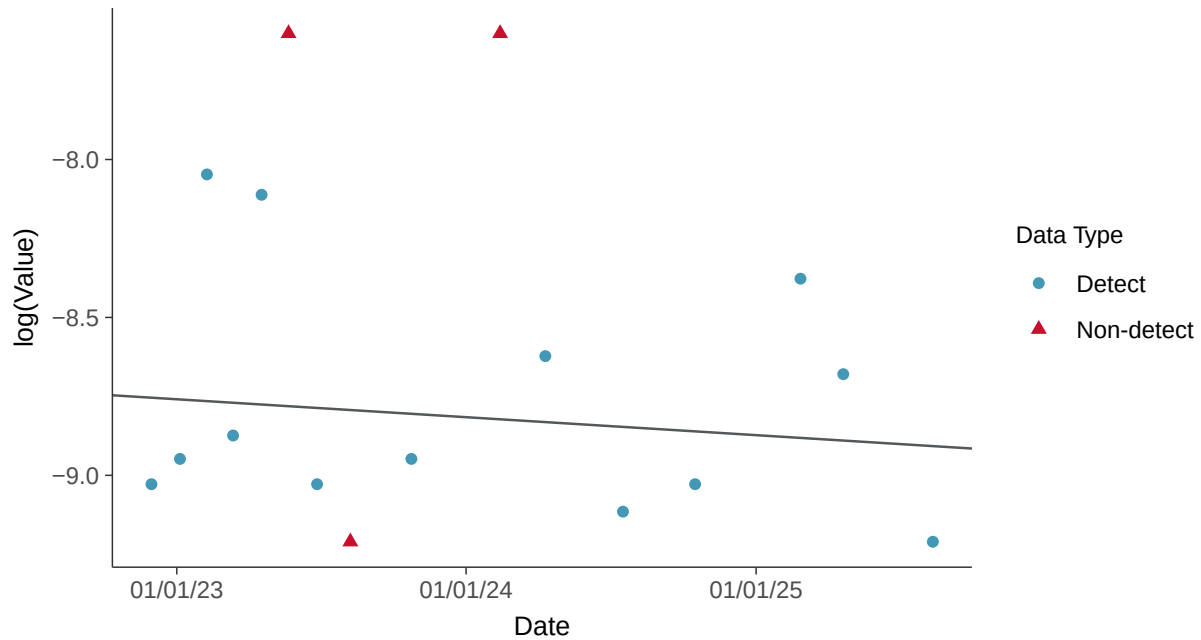
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-18 (mg/L)



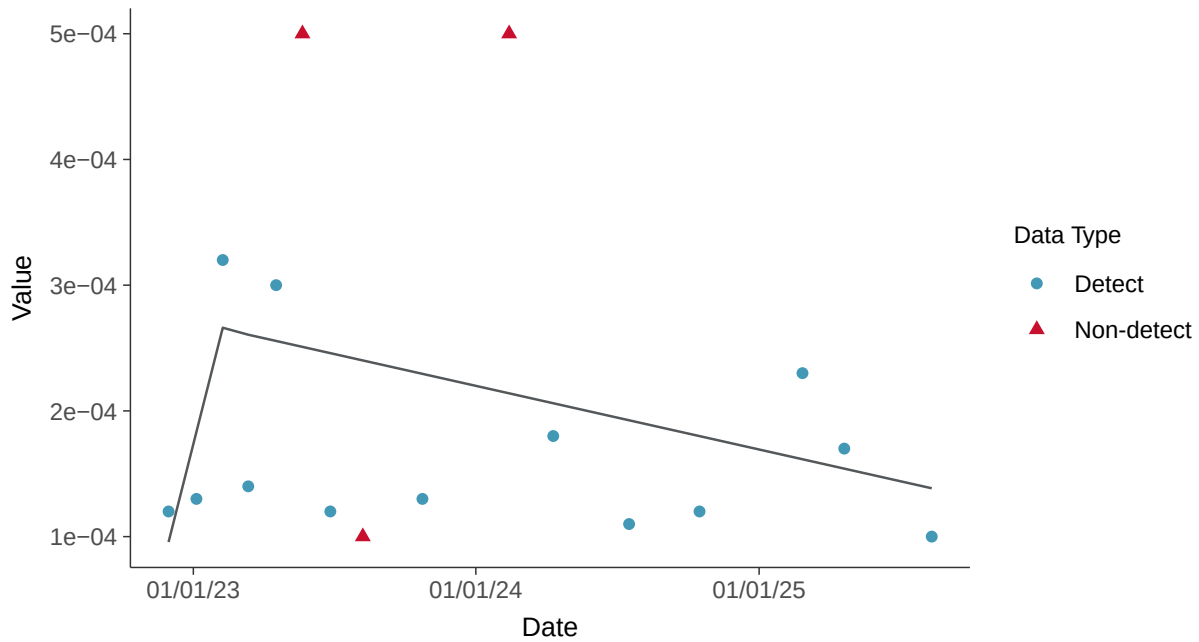
Trend Regression: Lognormal MLE

Antimony, MW-18 (mg/L)



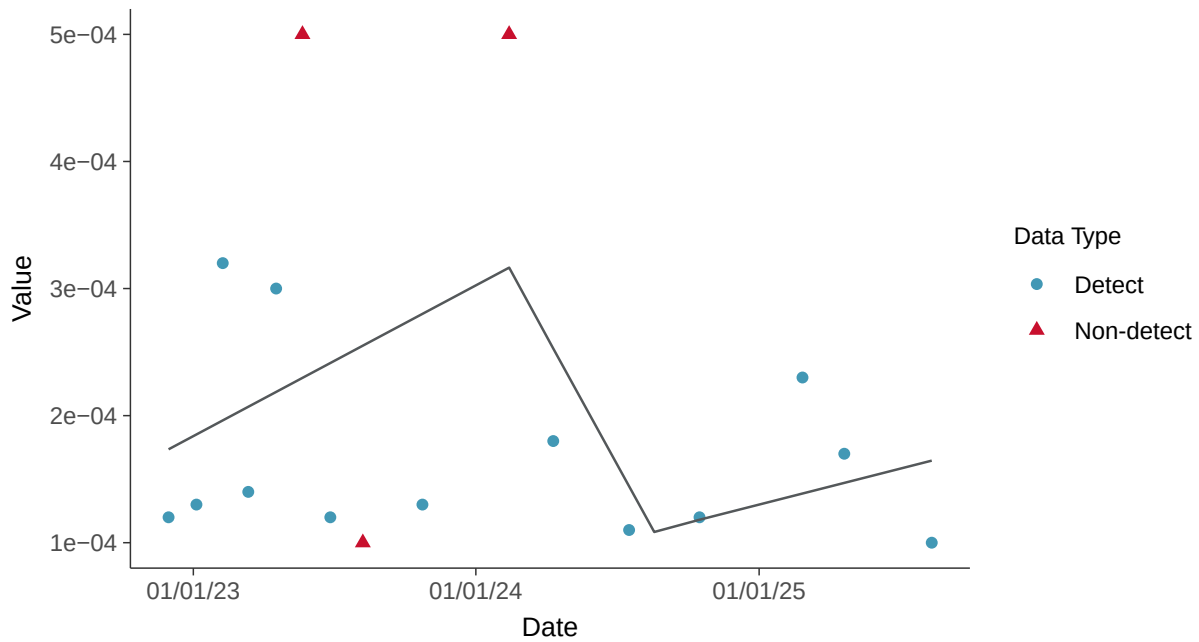
Trend Regression: Piecewise Linear-Linear

Antimony, MW-18 (mg/L)



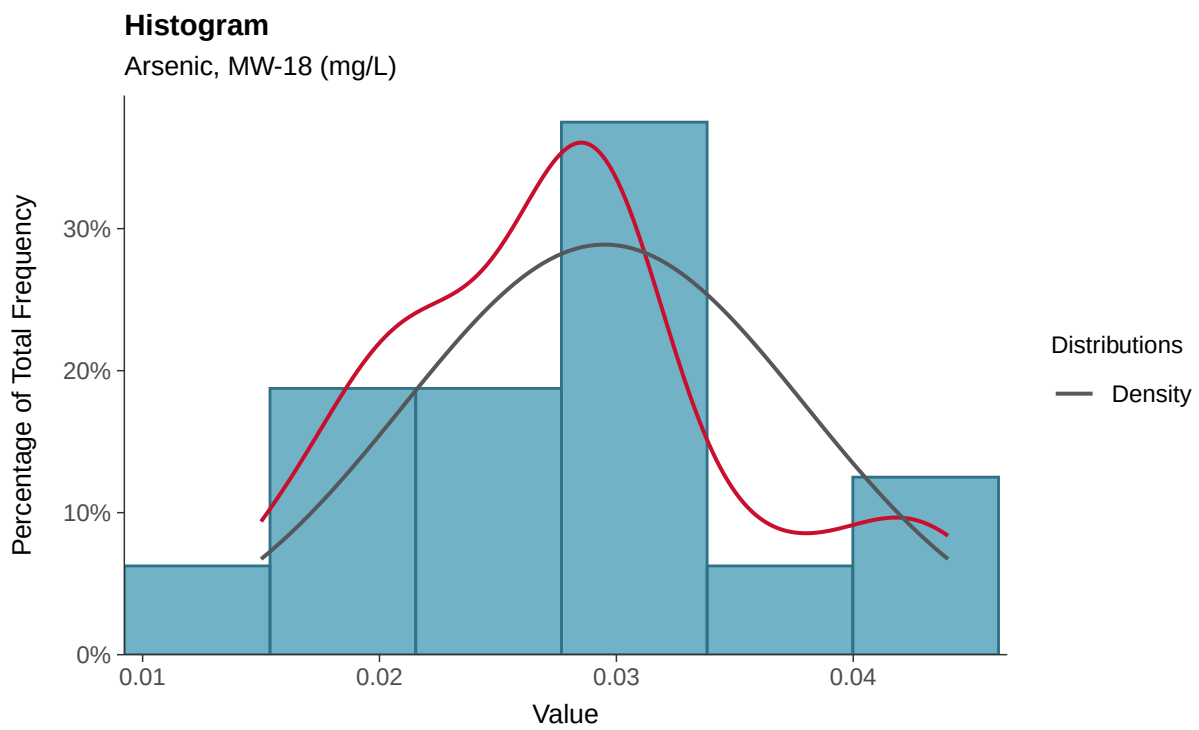
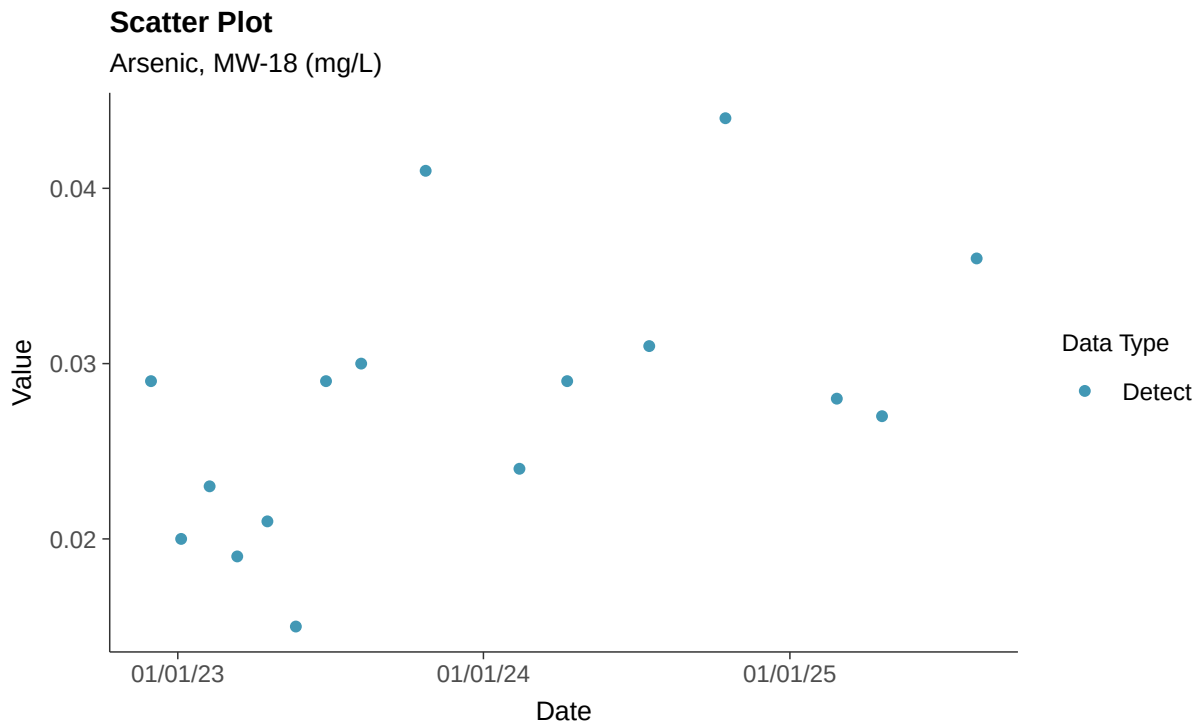
Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-18 (mg/L)



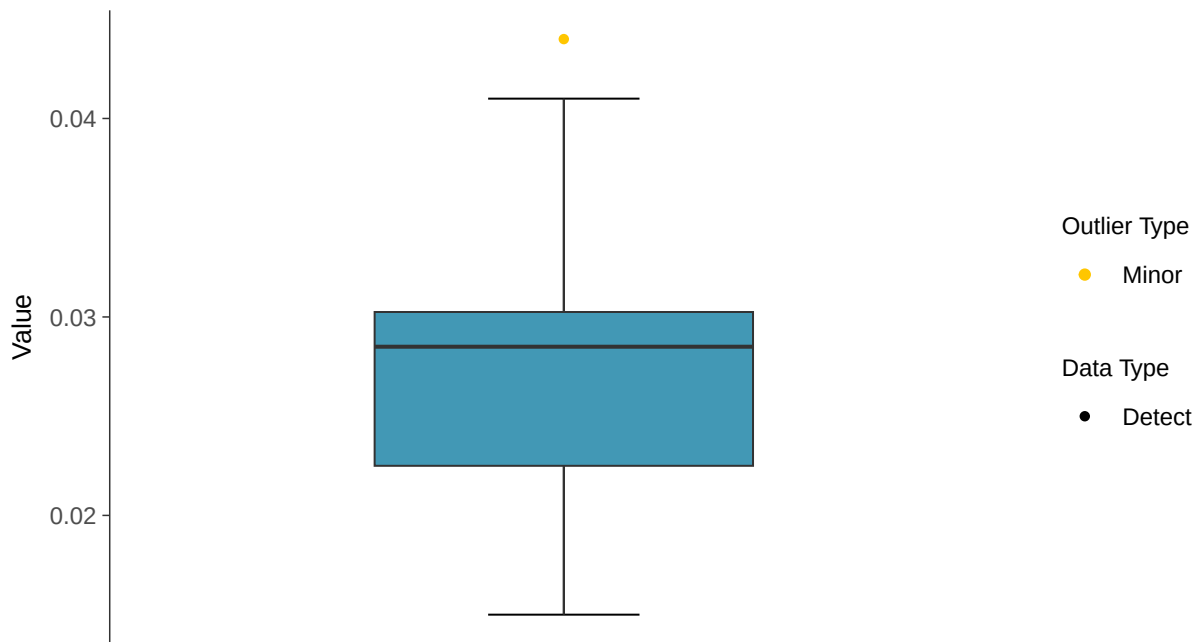
Appendix IV: Arsenic, MW-18

ID: 28_1_4_102



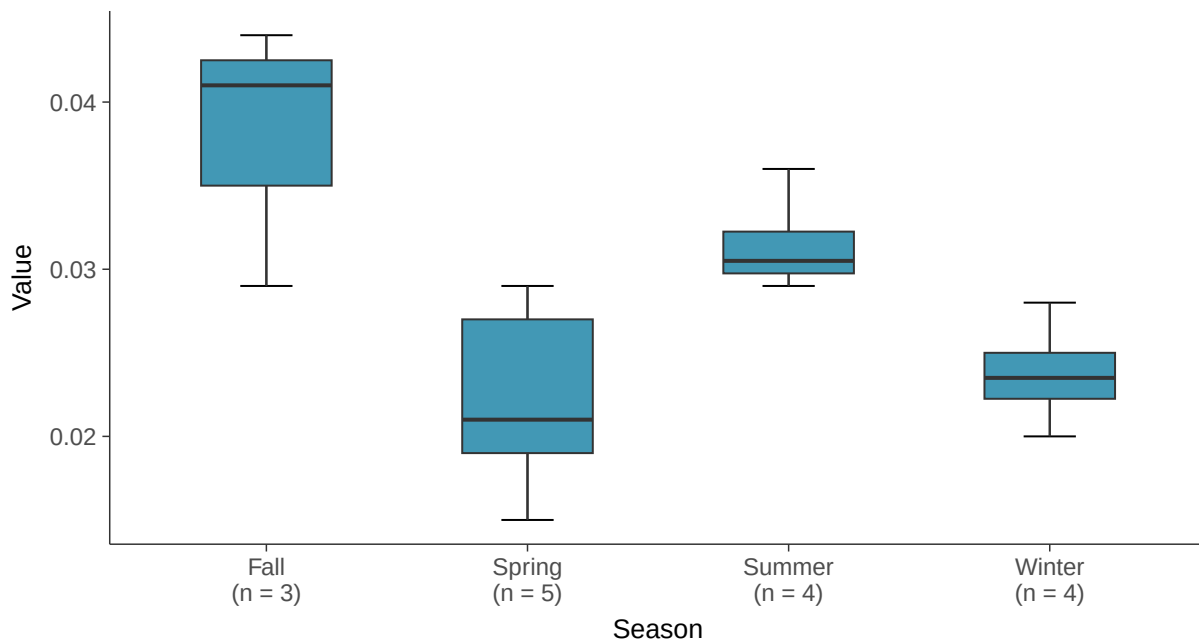
Boxplot

Arsenic, MW-18 (mg/L)



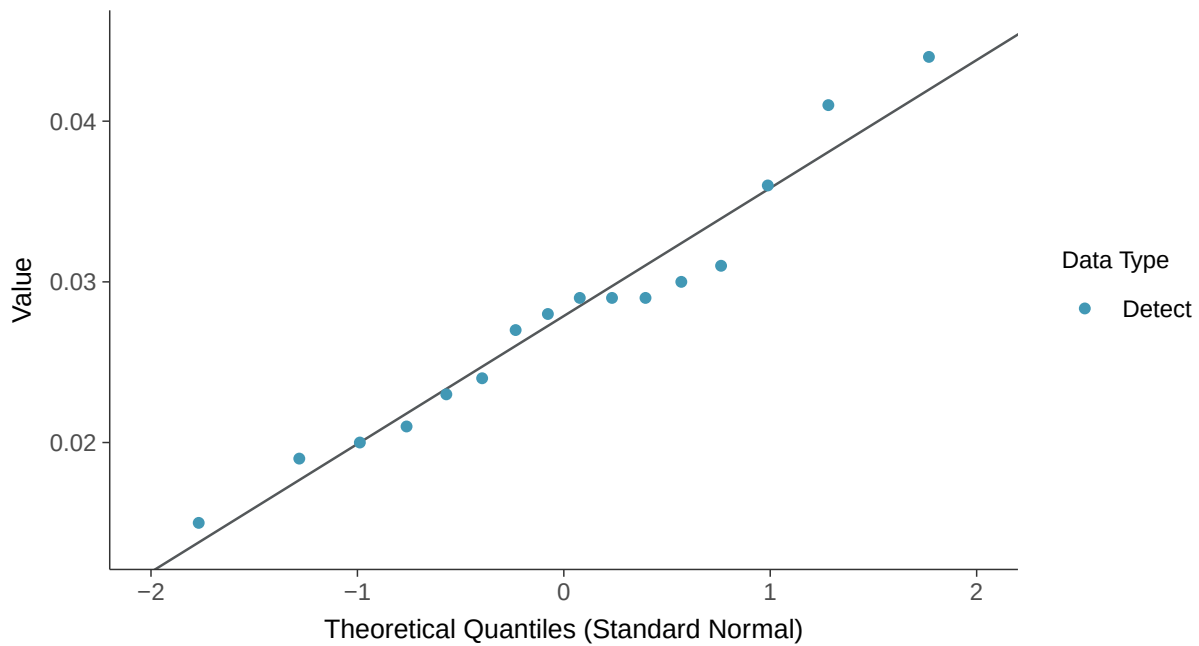
Boxplot by Season

Arsenic, MW-18 (mg/L)



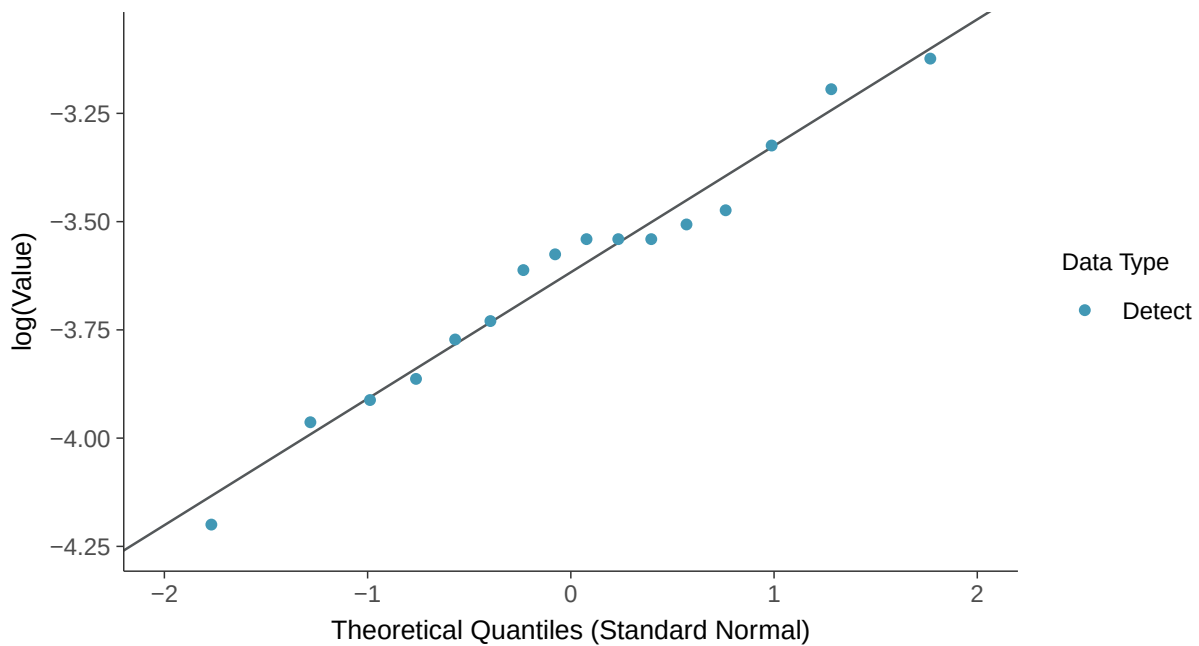
Normal Q-Q plot

Arsenic, MW-18 (mg/L)



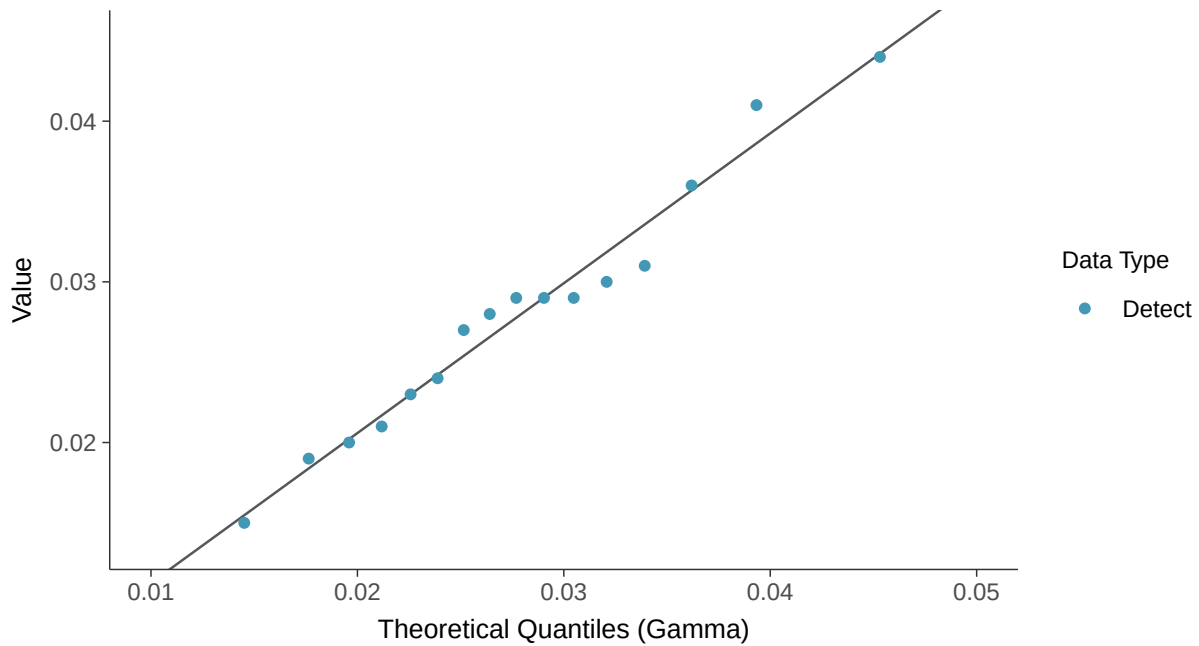
Lognormal Q-Q plot

Arsenic, MW-18 (mg/L)



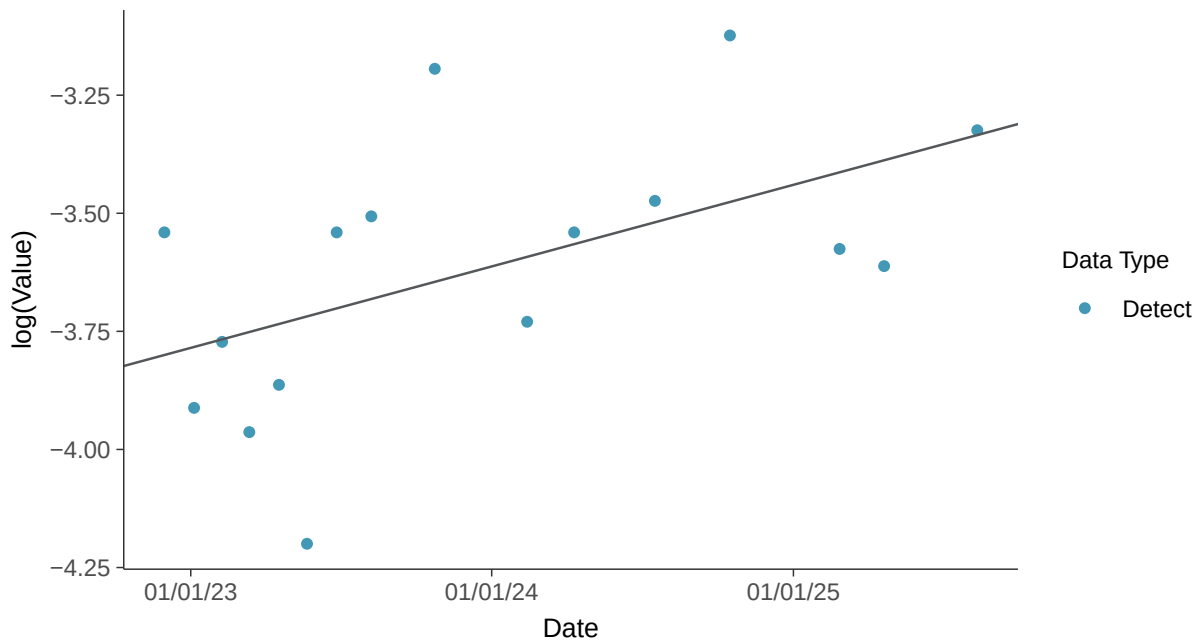
Gamma Q-Q plot

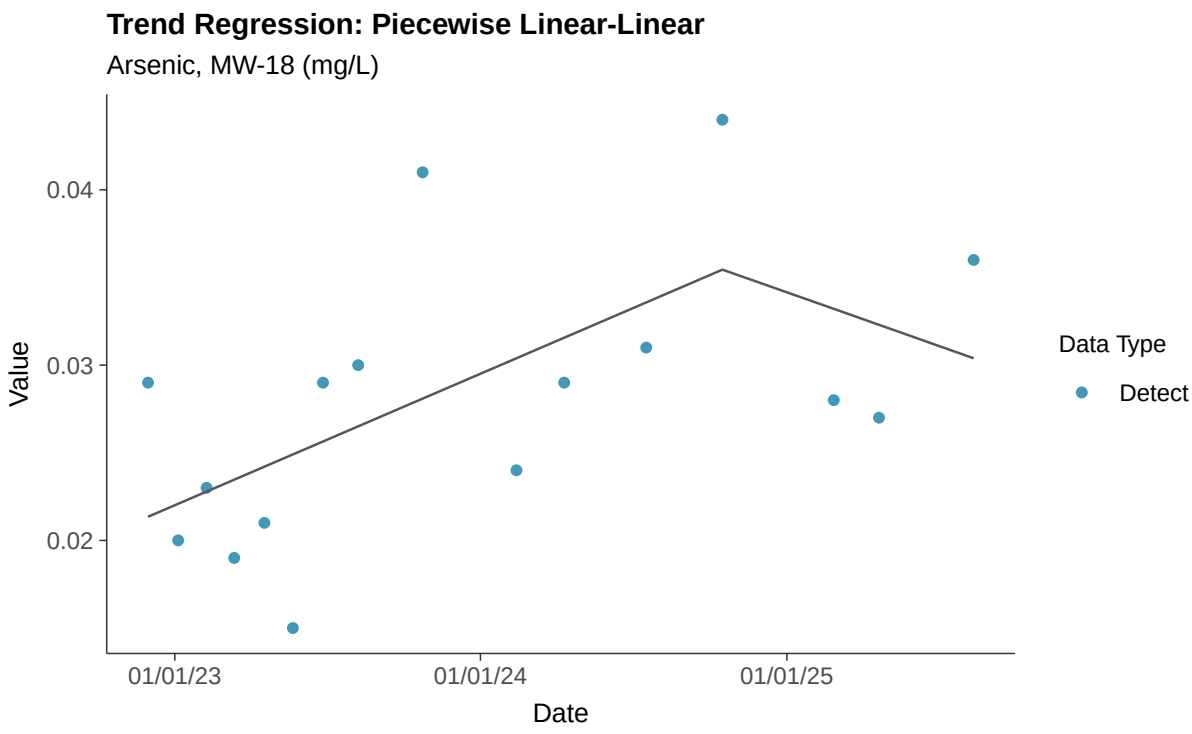
Arsenic, MW-18 (mg/L)



Trend Regression: Lognormal MLE

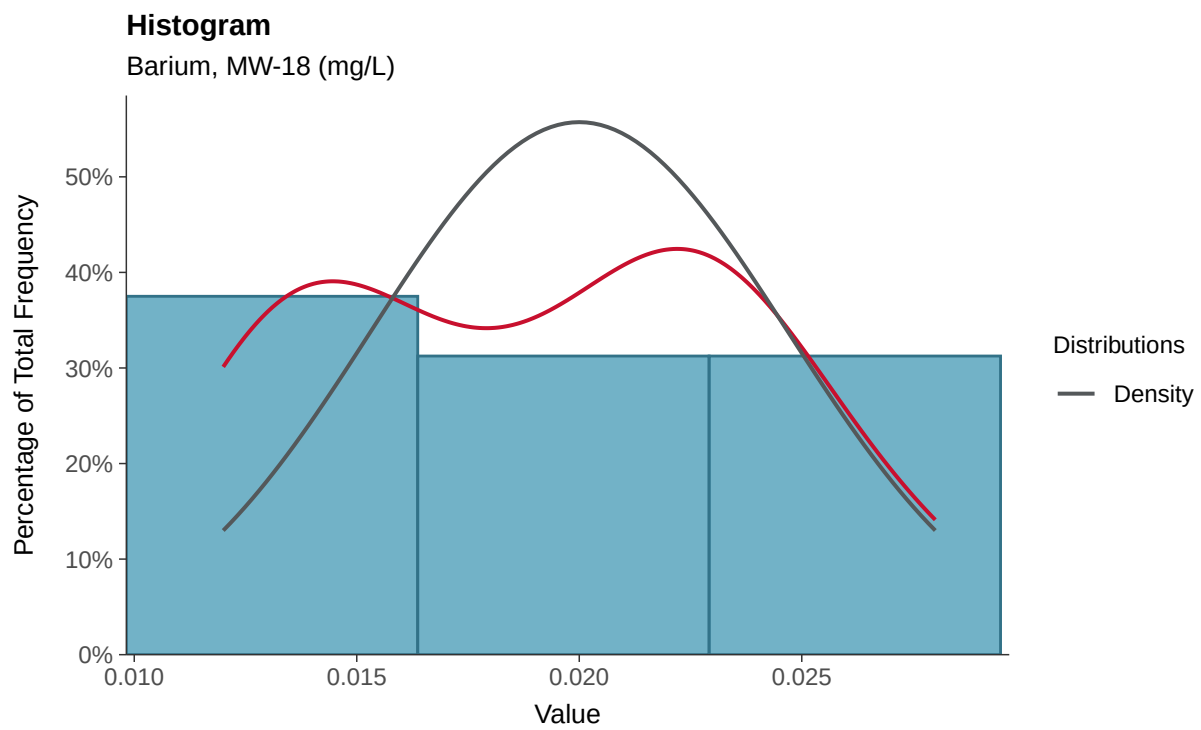
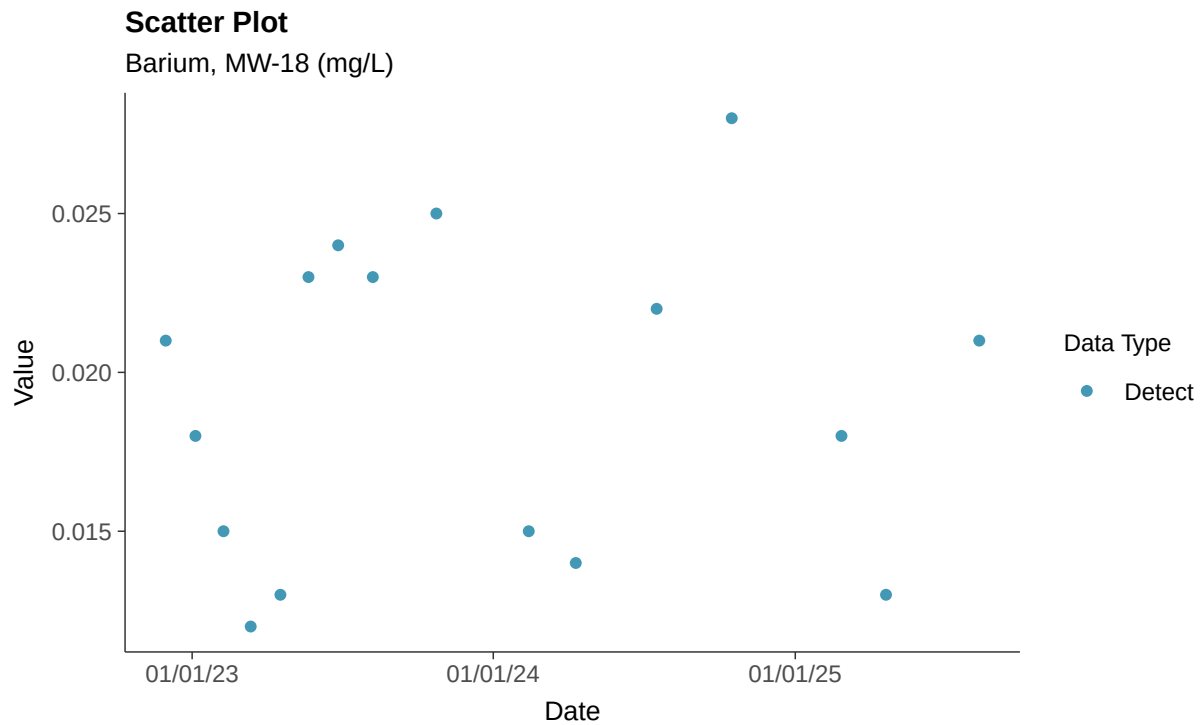
Arsenic, MW-18 (mg/L)





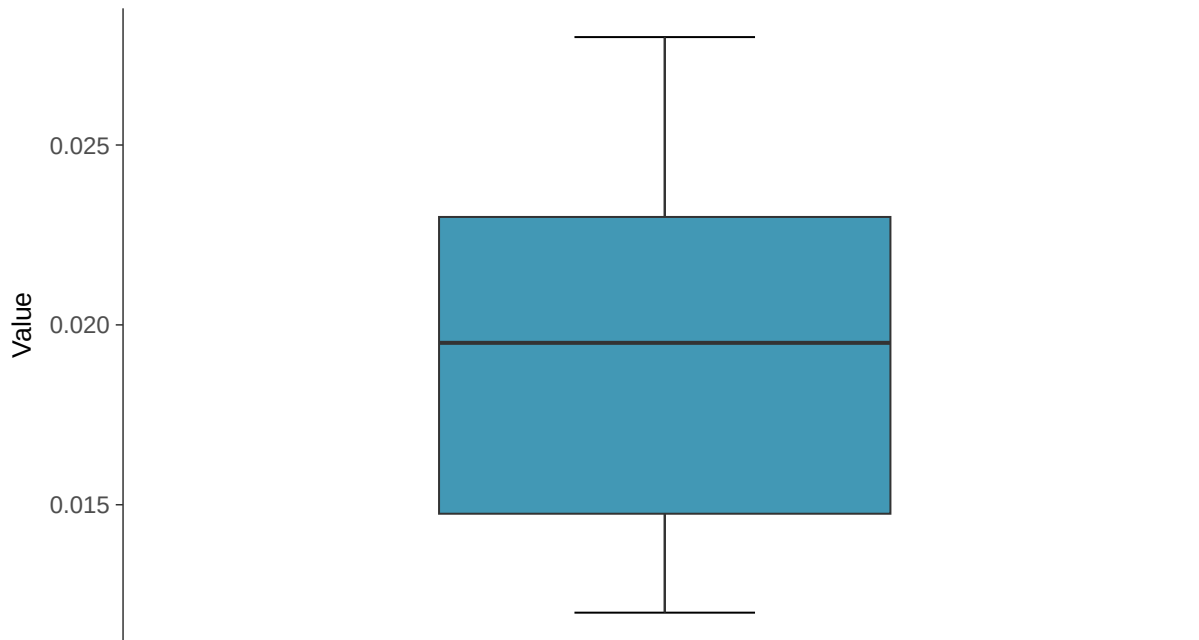
Appendix IV: Barium, MW-18

ID: 28_1_4_103



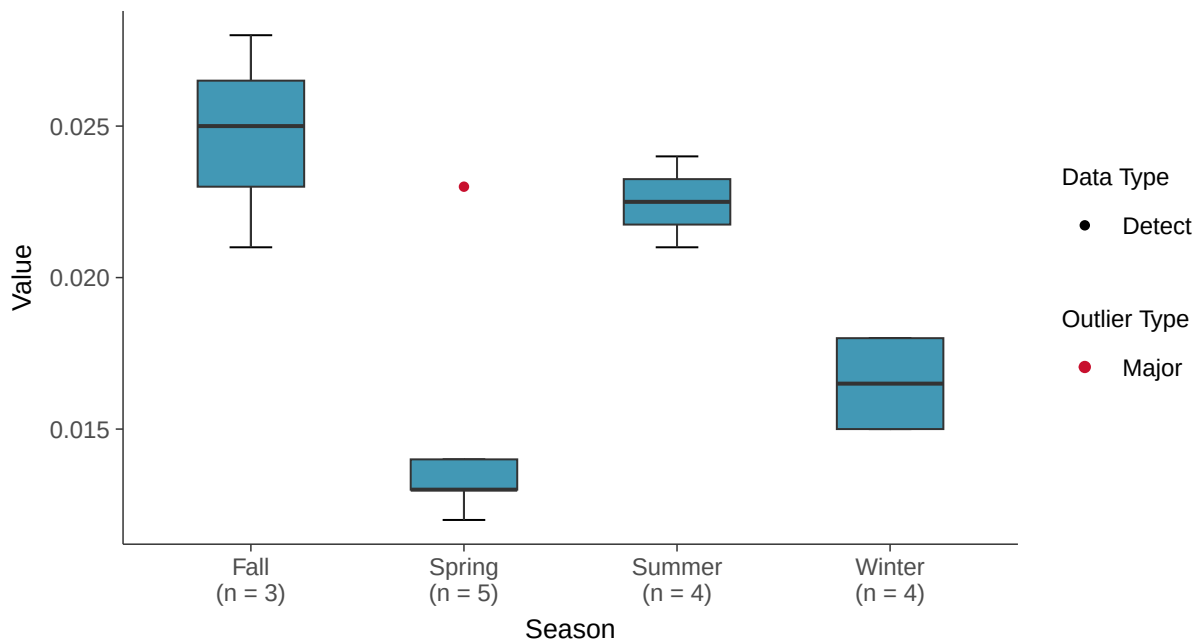
Boxplot

Barium, MW-18 (mg/L)



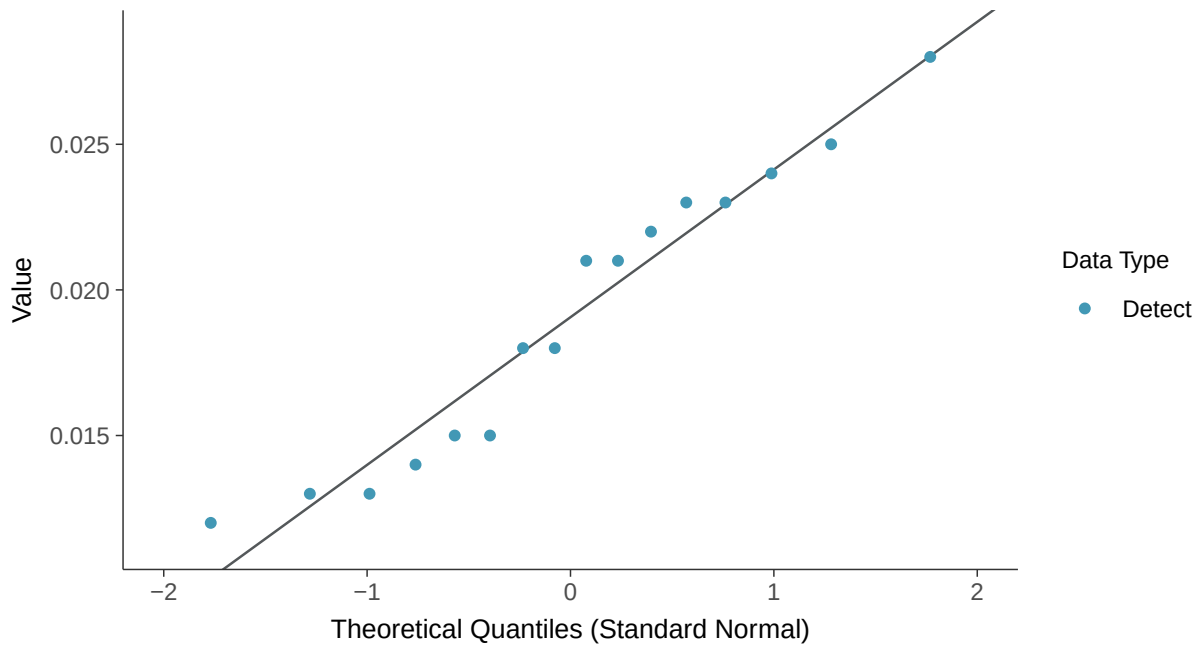
Boxplot by Season

Barium, MW-18 (mg/L)



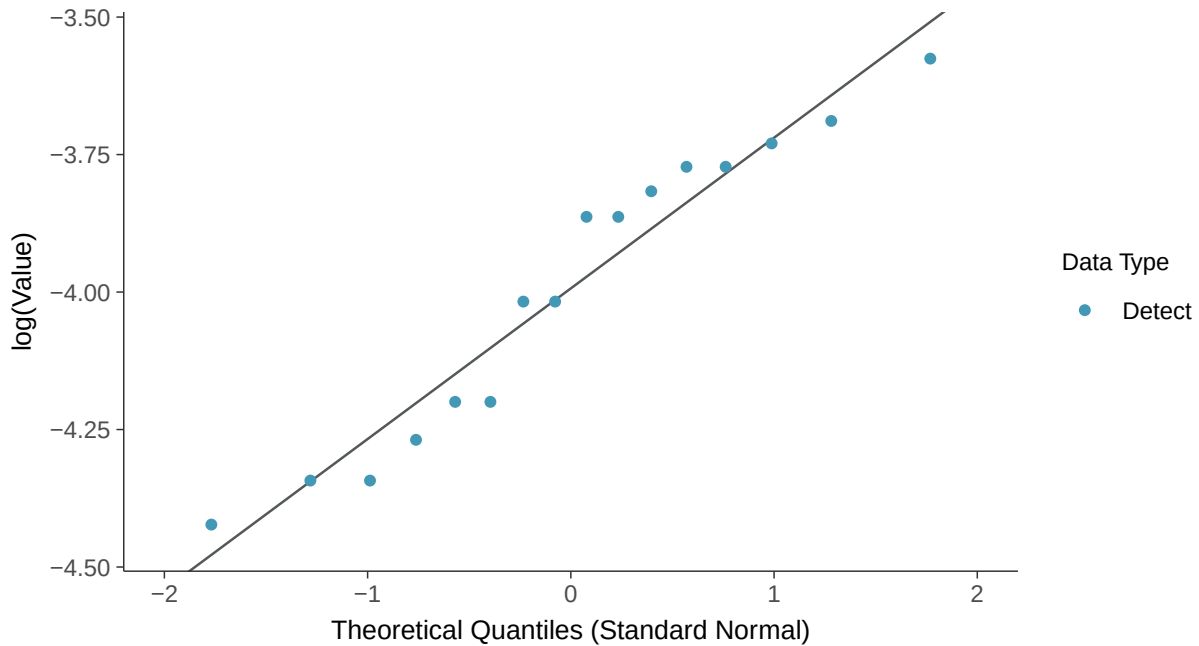
Normal Q-Q plot

Barium, MW-18 (mg/L)



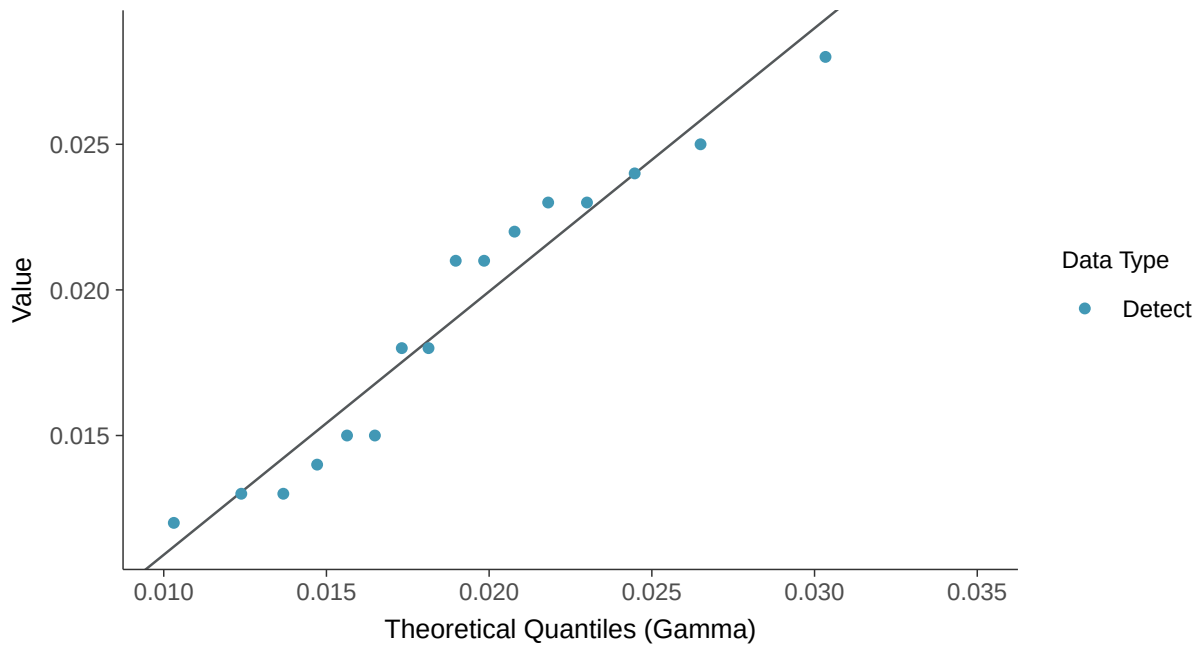
Lognormal Q-Q plot

Barium, MW-18 (mg/L)



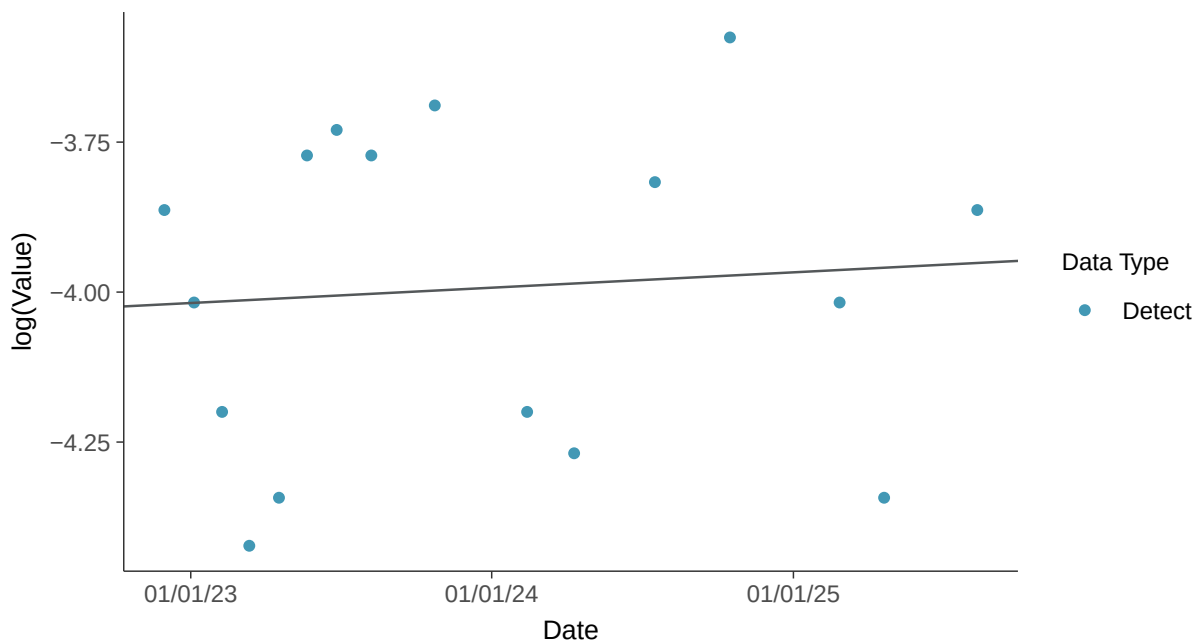
Gamma Q-Q plot

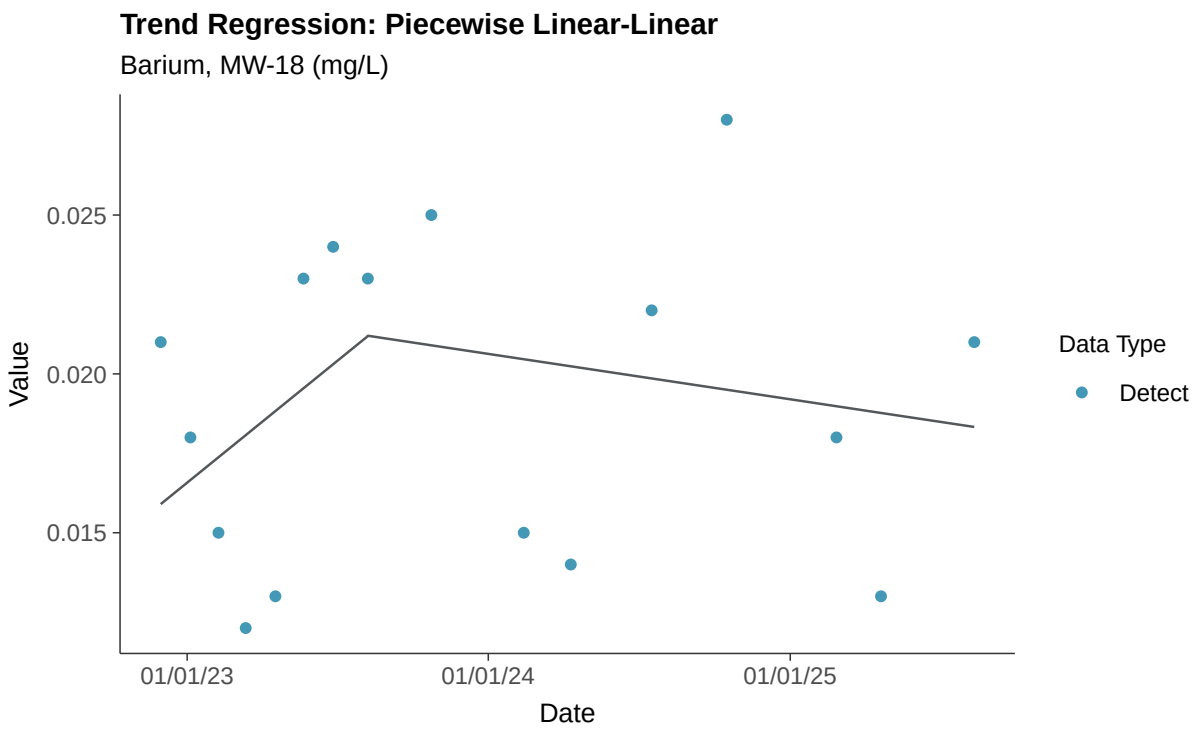
Barium, MW-18 (mg/L)



Trend Regression: Lognormal MLE

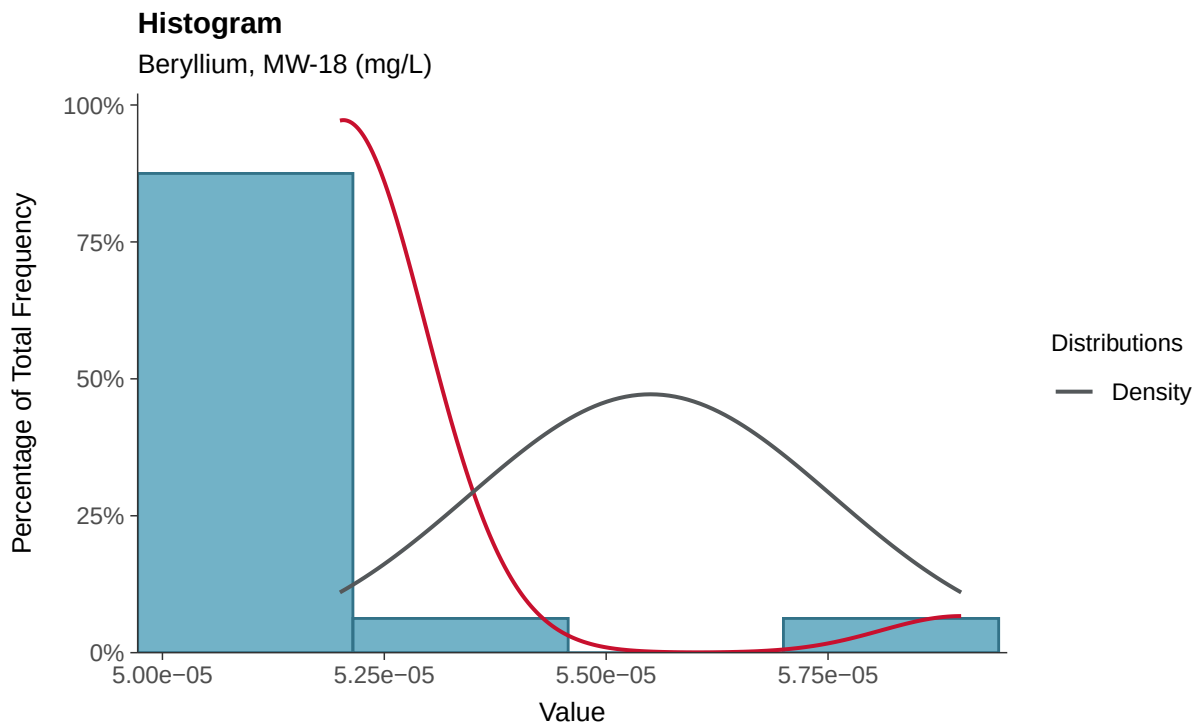
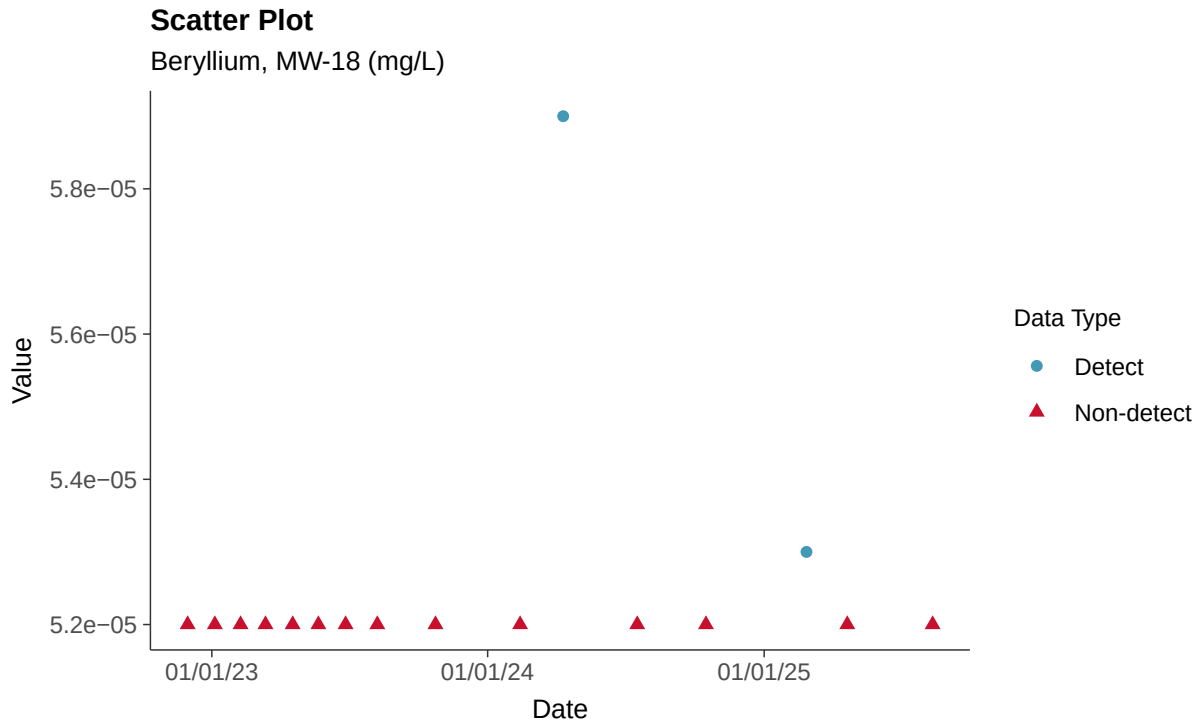
Barium, MW-18 (mg/L)





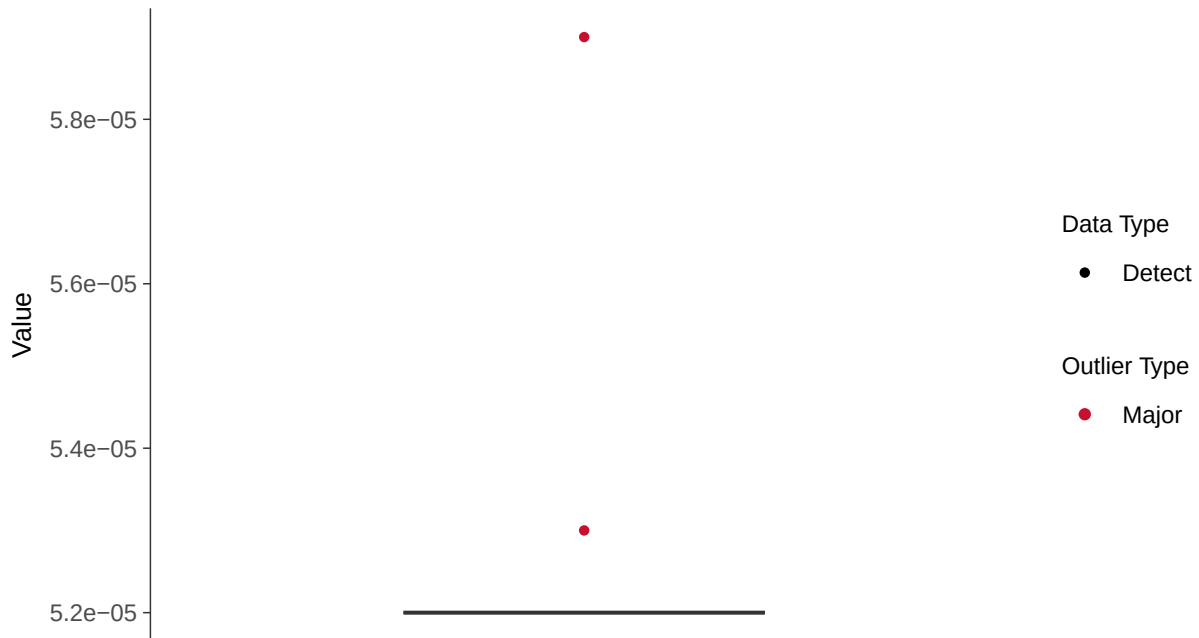
Appendix IV: Beryllium, MW-18

ID: 28_1_4_104



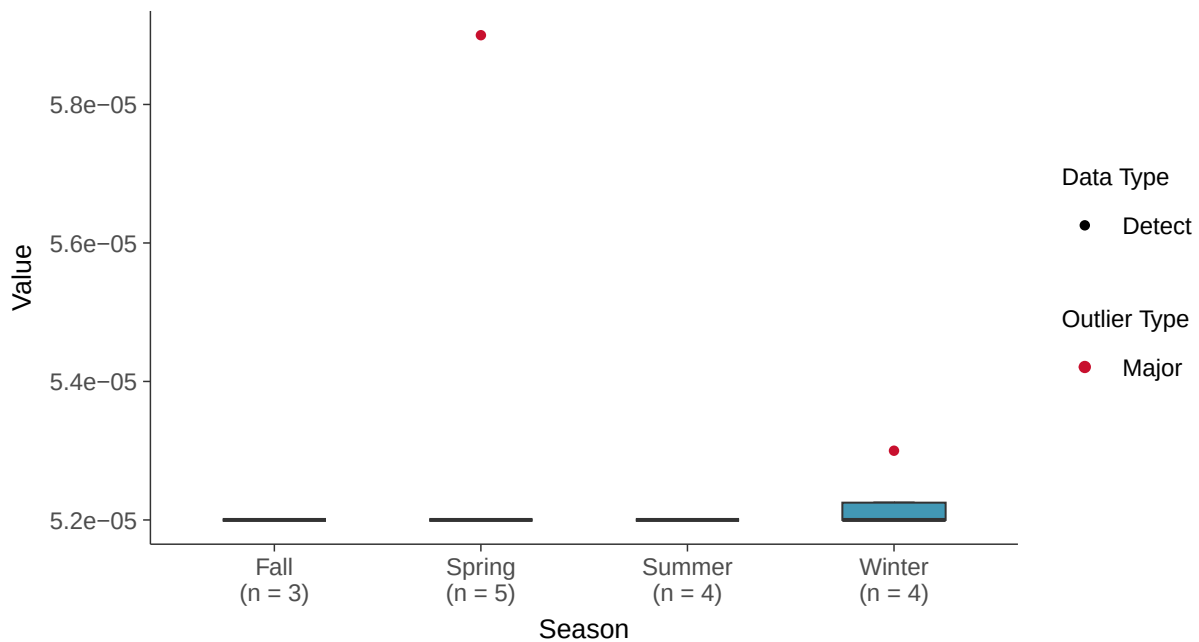
Boxplot

Beryllium, MW-18 (mg/L)



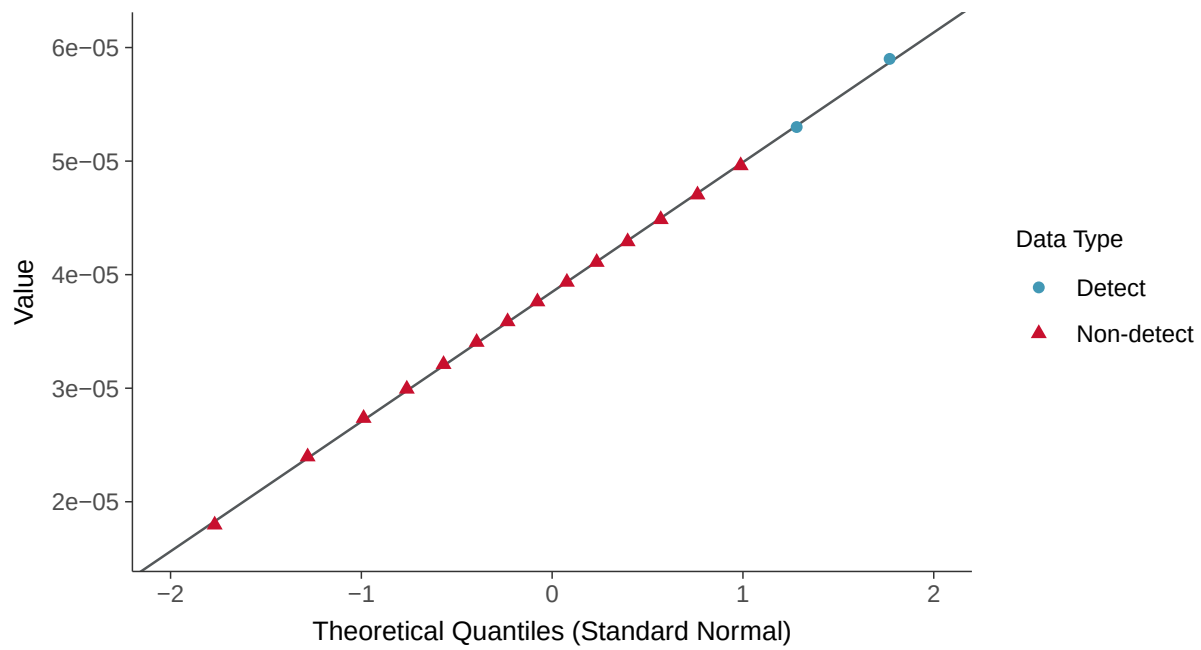
Boxplot by Season

Beryllium, MW-18 (mg/L)



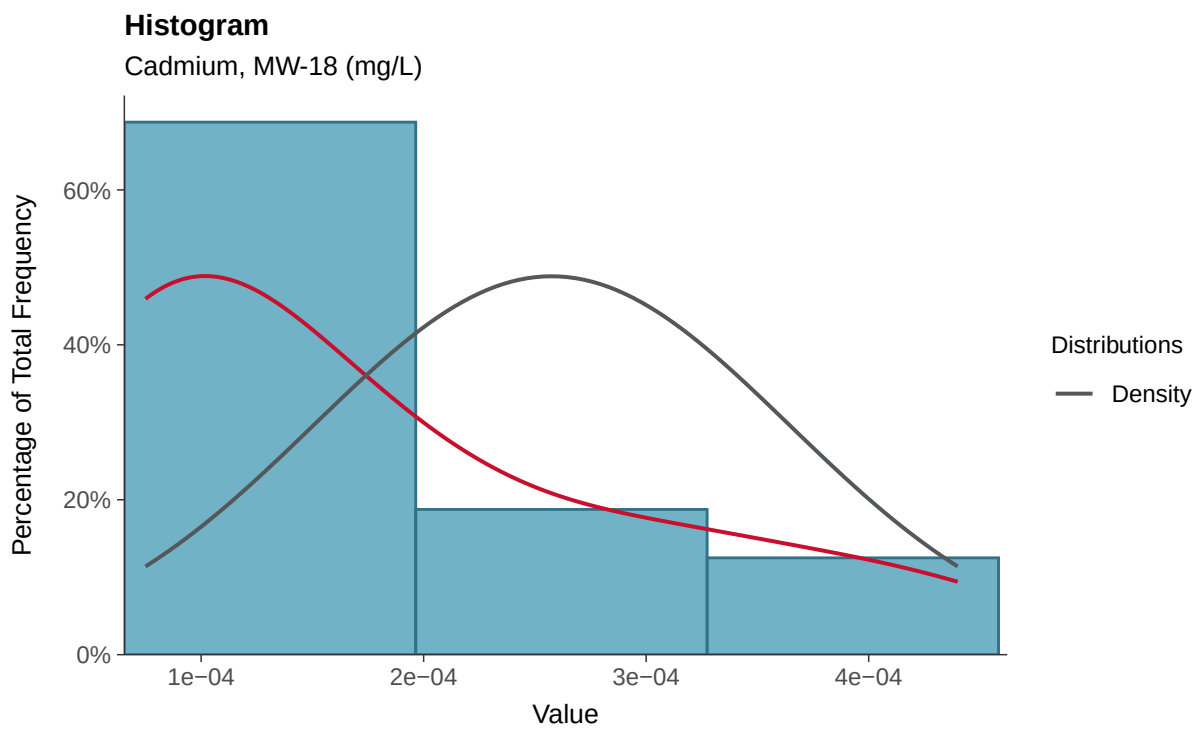
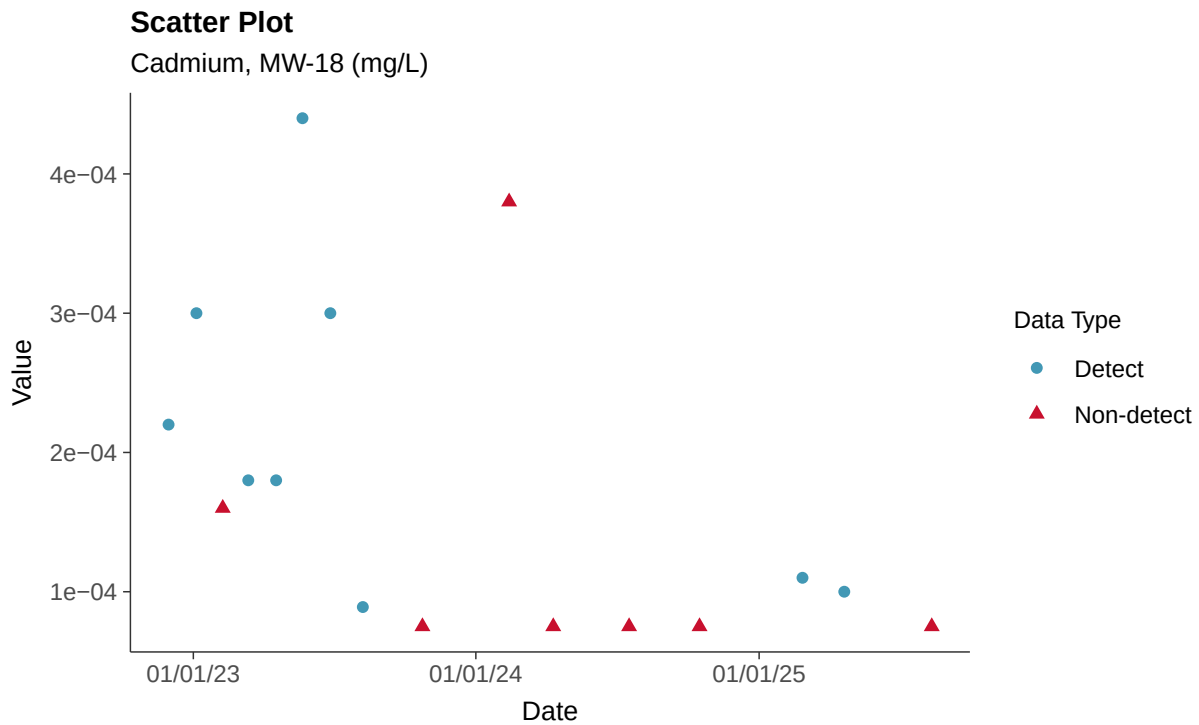
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-18 (mg/L)



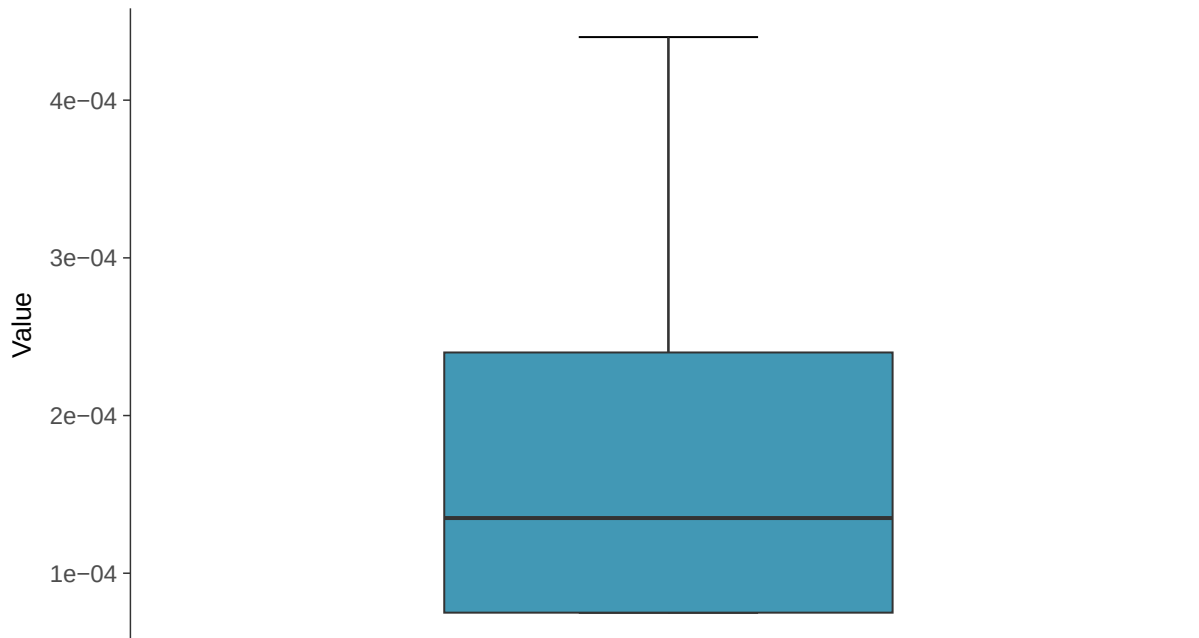
Appendix IV: Cadmium, MW-18

ID: 28_1_4_106



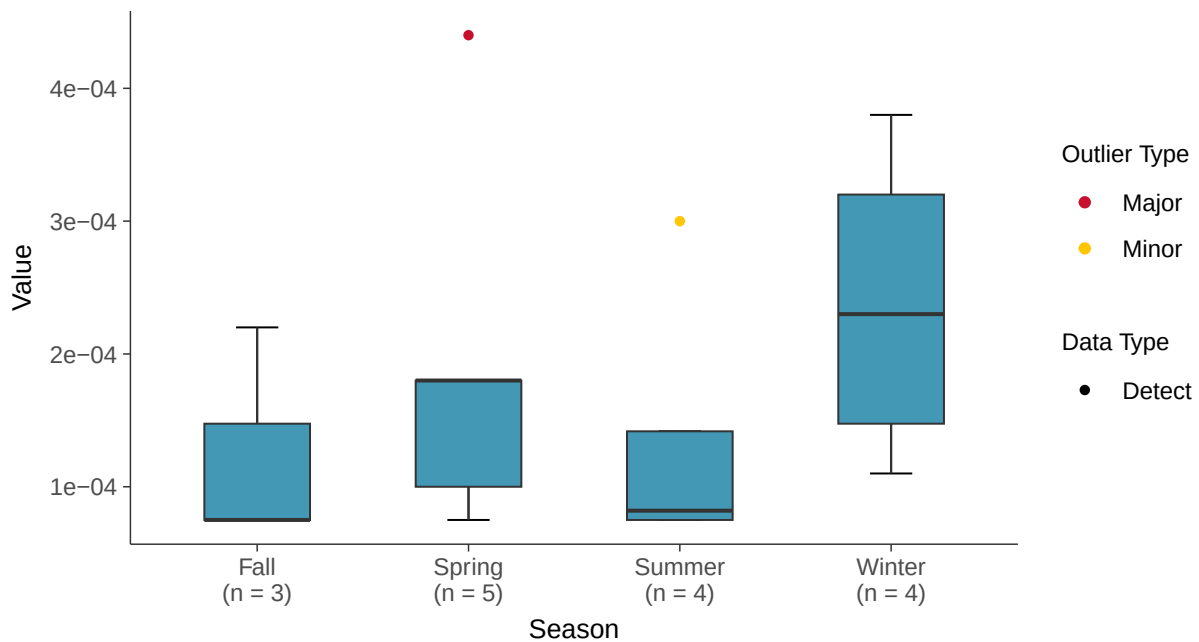
Boxplot

Cadmium, MW-18 (mg/L)



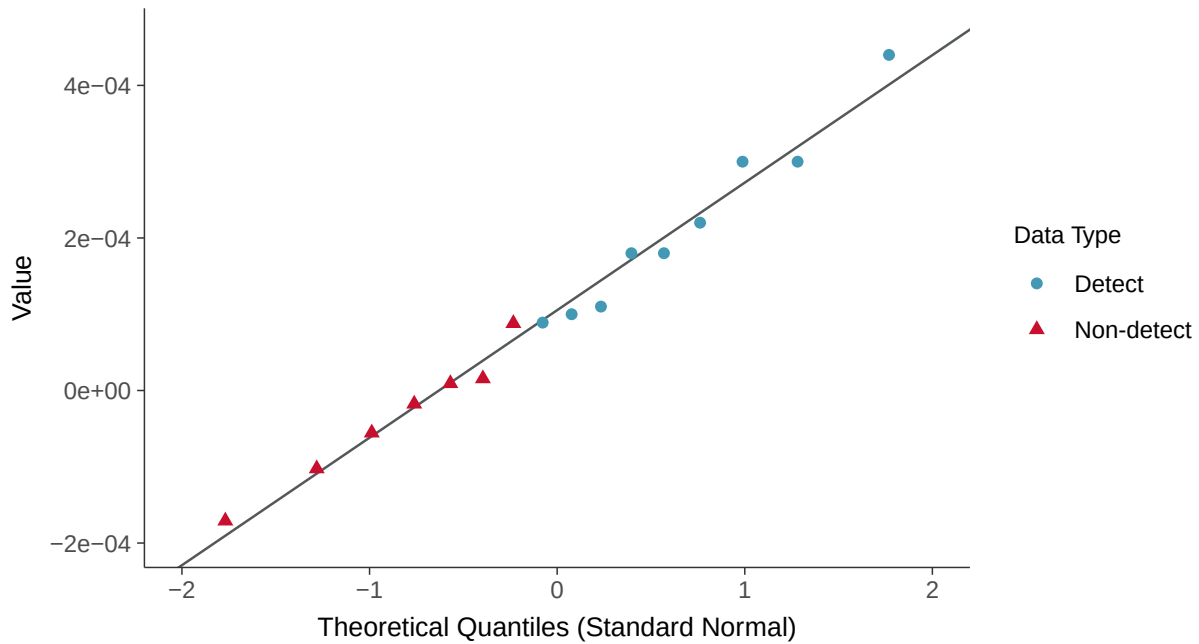
Boxplot by Season

Cadmium, MW-18 (mg/L)



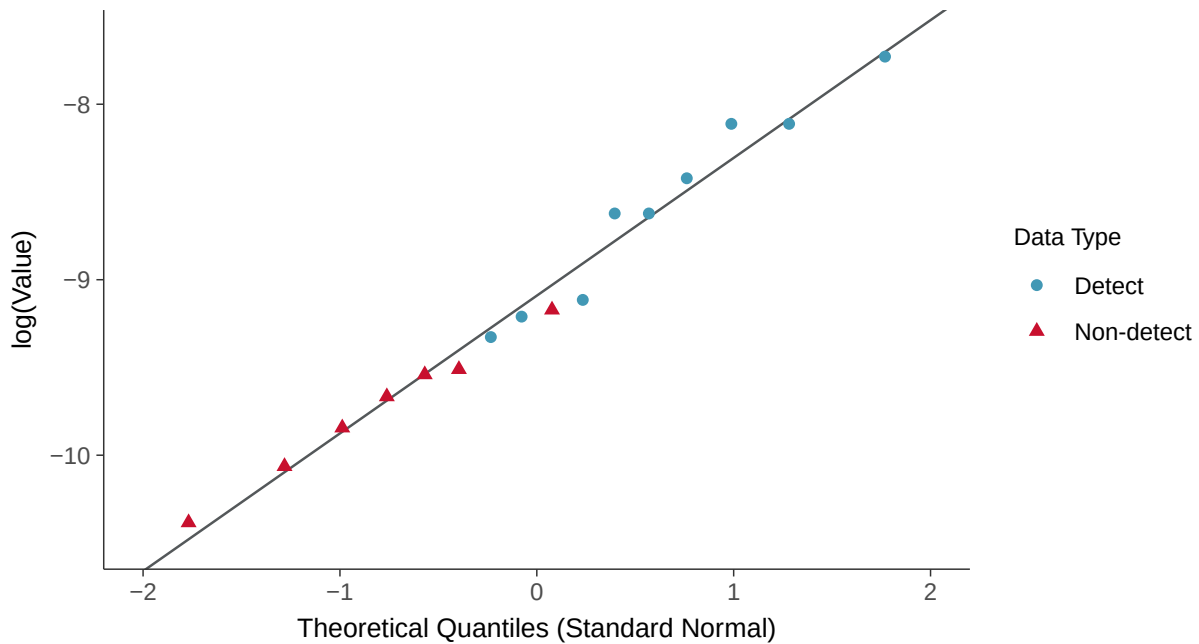
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-18 (mg/L)



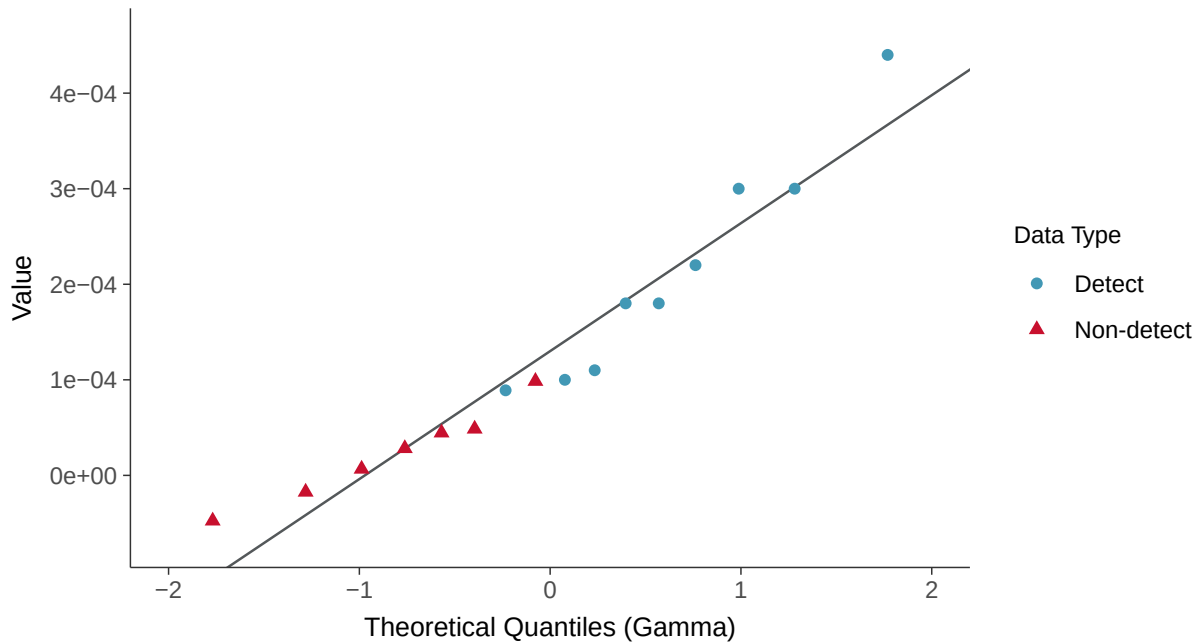
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-18 (mg/L)



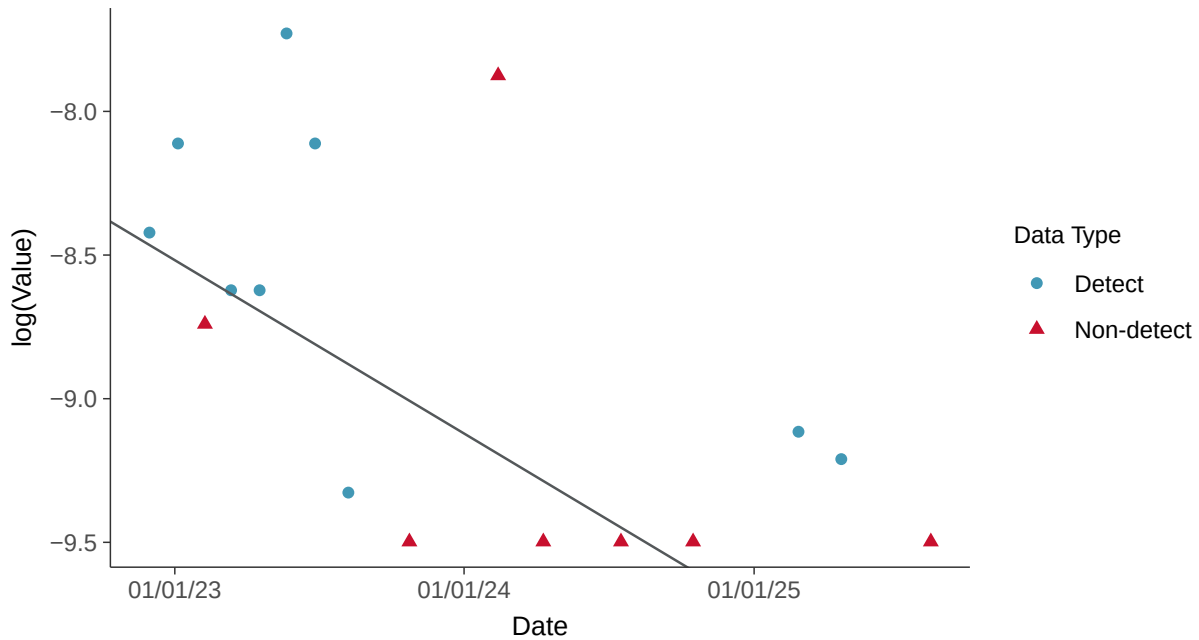
Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-18 (mg/L)

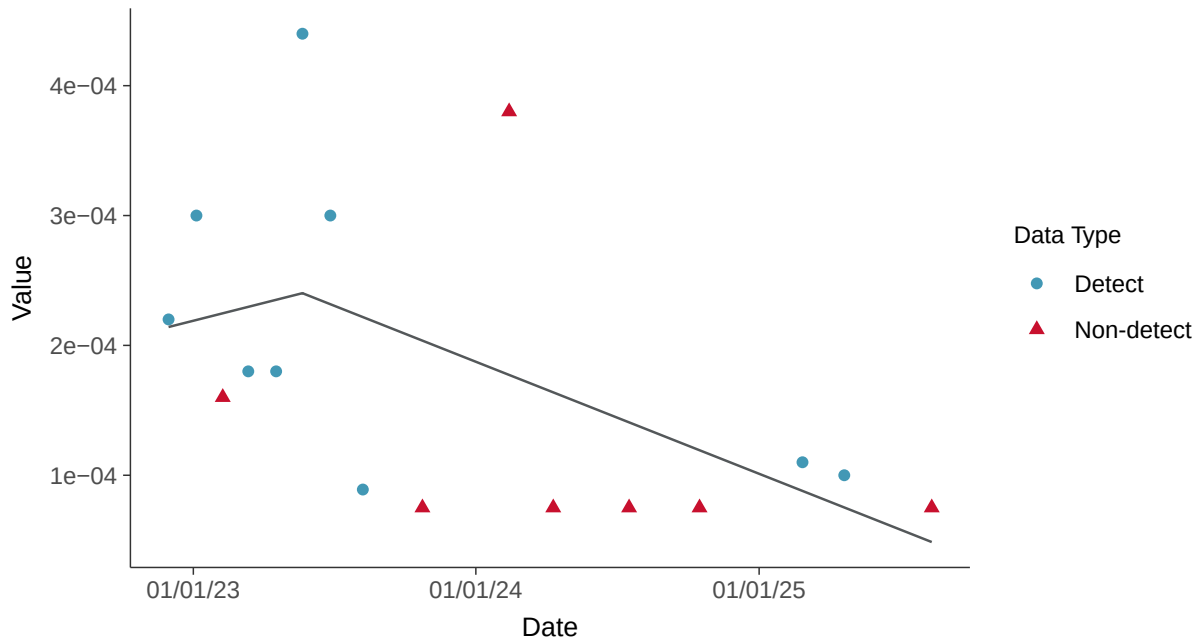


Trend Regression: Lognormal MLE

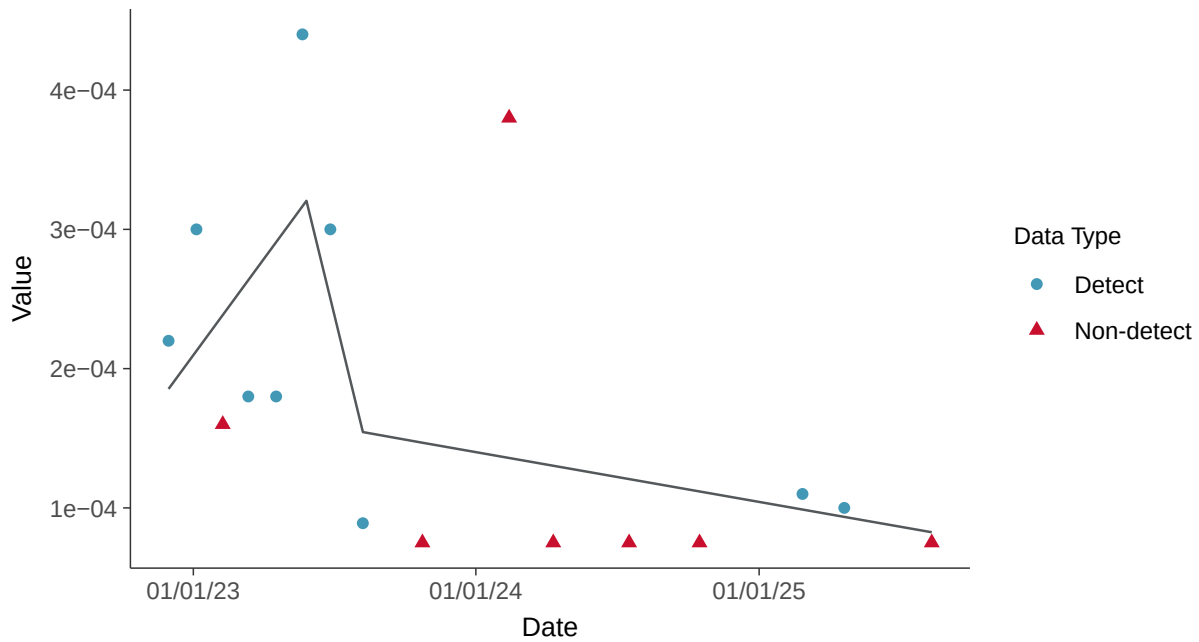
Cadmium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear
Cadmium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear
Cadmium, MW-18 (mg/L)

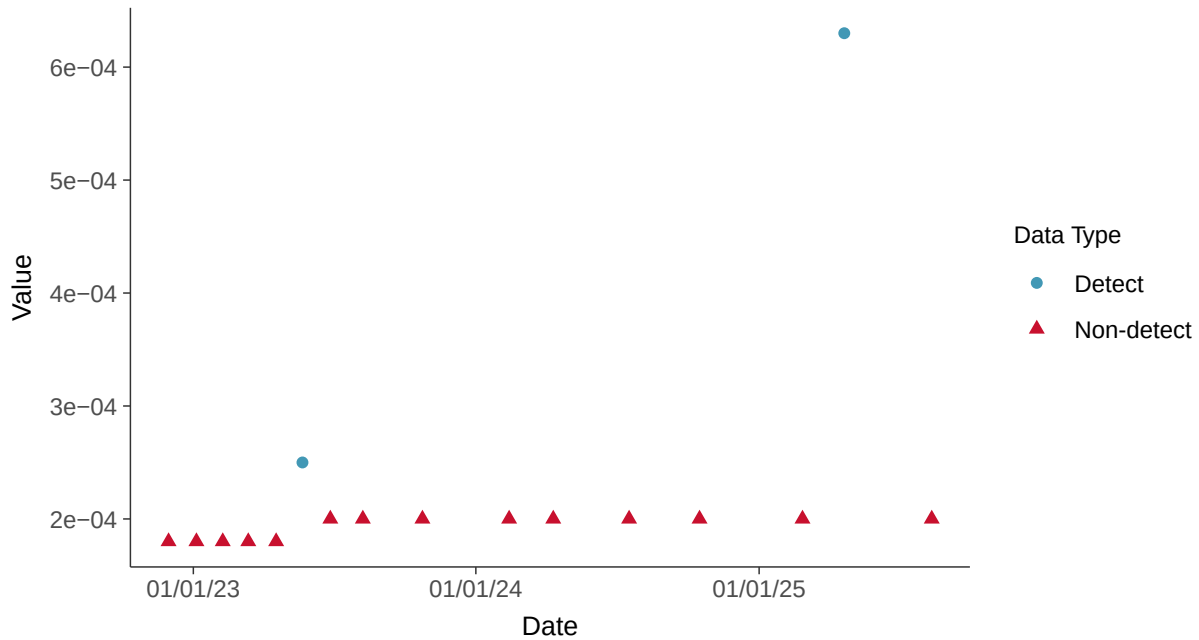


Appendix IV: Chromium, Total, MW-18

ID: 28_1_4_109

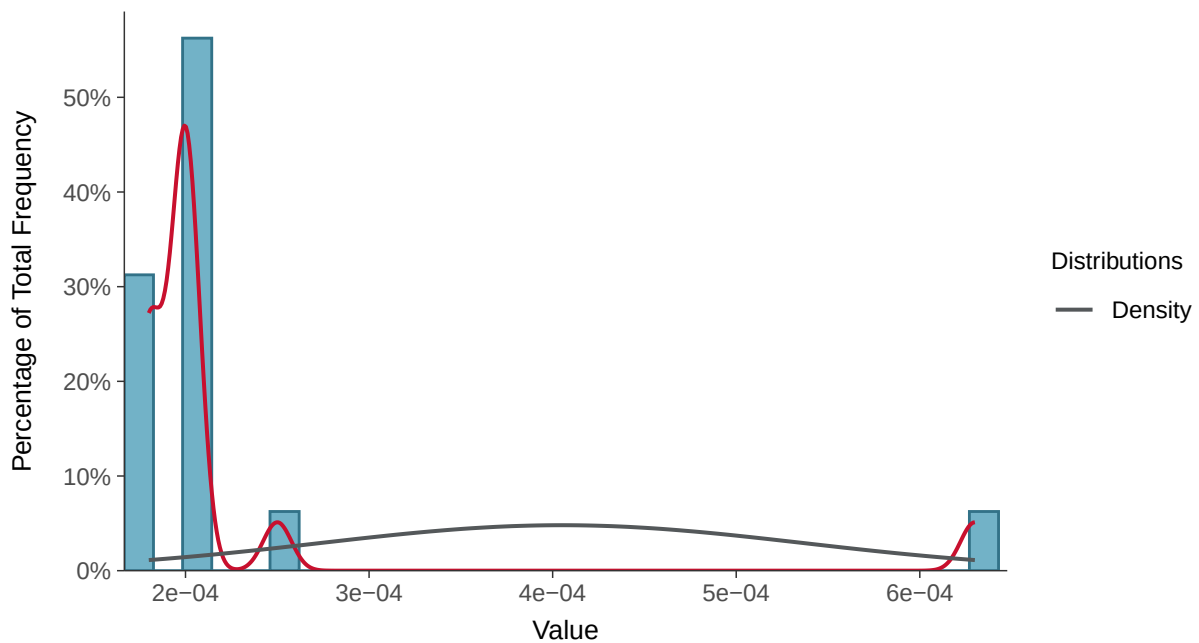
Scatter Plot

Chromium, Total, MW-18 (mg/L)



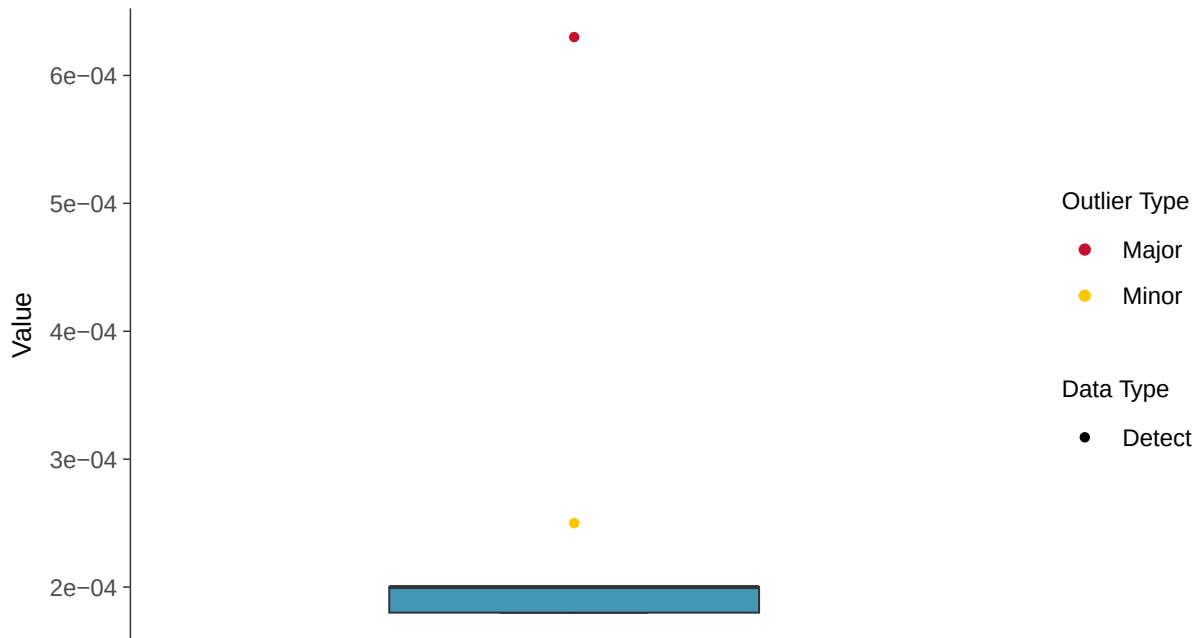
Histogram

Chromium, Total, MW-18 (mg/L)



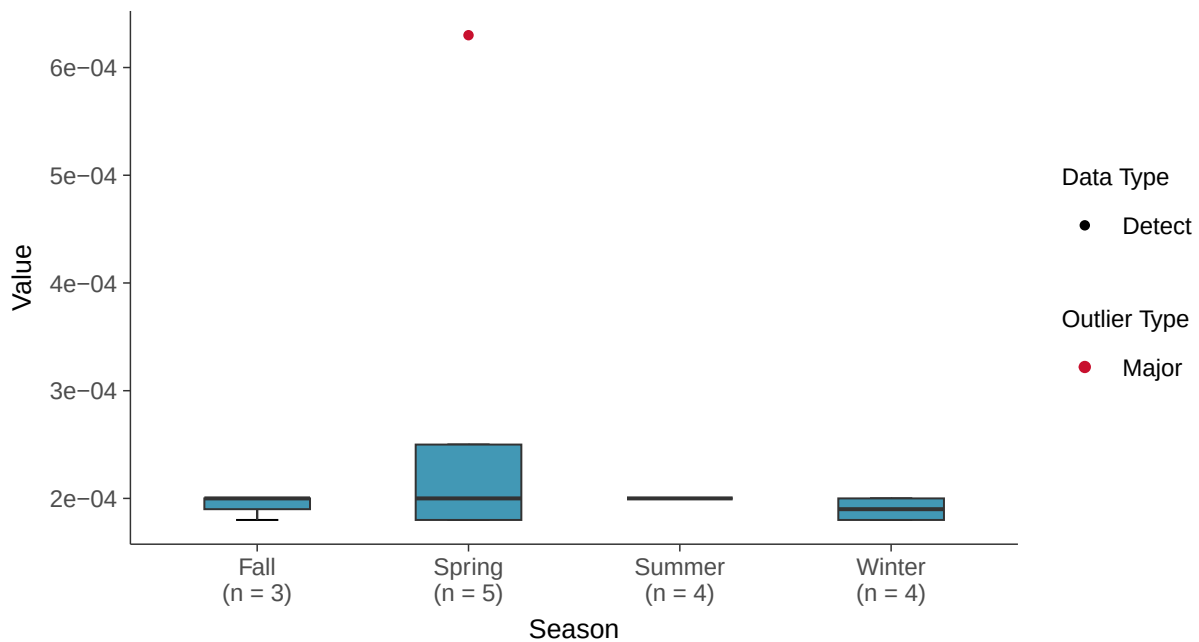
Boxplot

Chromium, Total, MW-18 (mg/L)

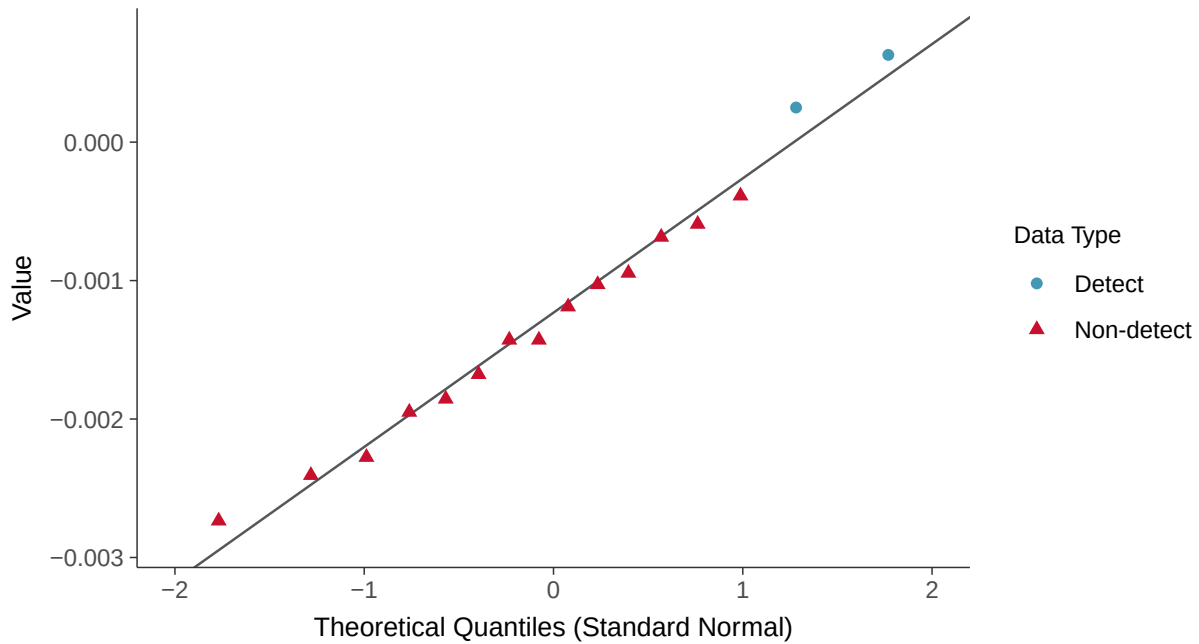


Boxplot by Season

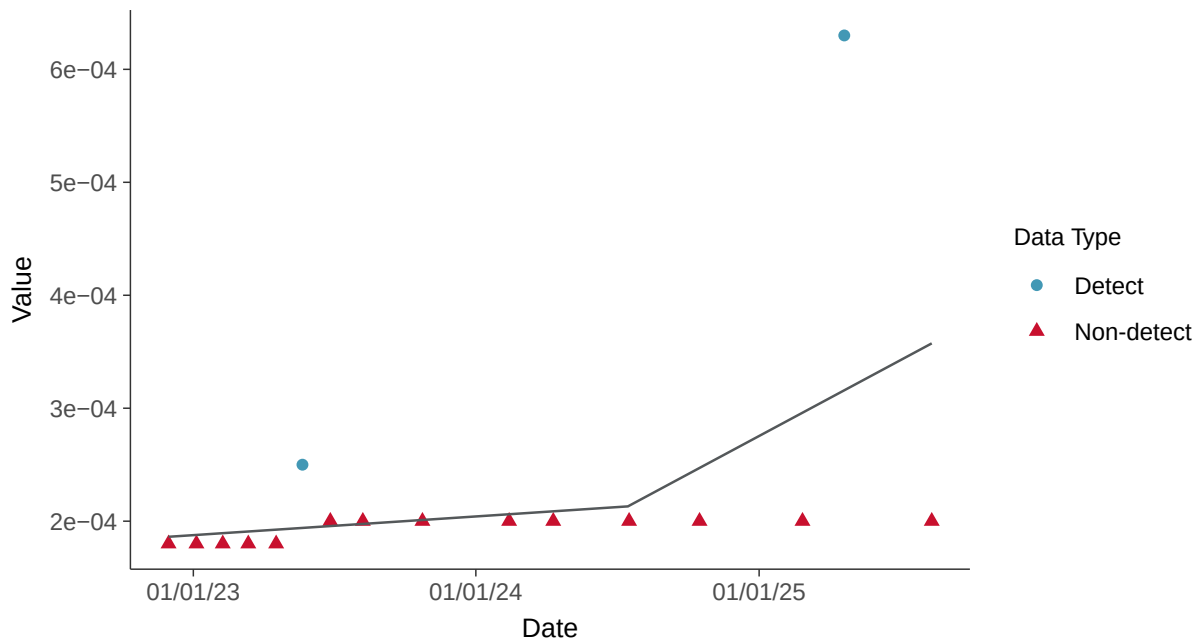
Chromium, Total, MW-18 (mg/L)



Chromium, Total, MW-18 (mg/L)

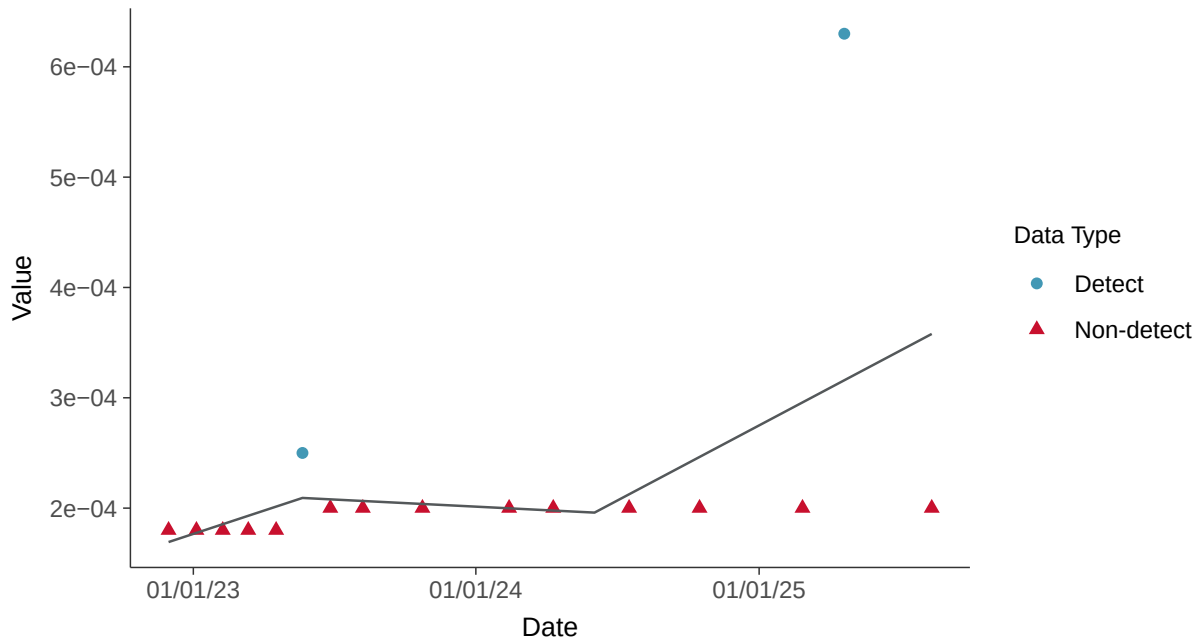


Chromium, Total, MW-18 (mg/L)



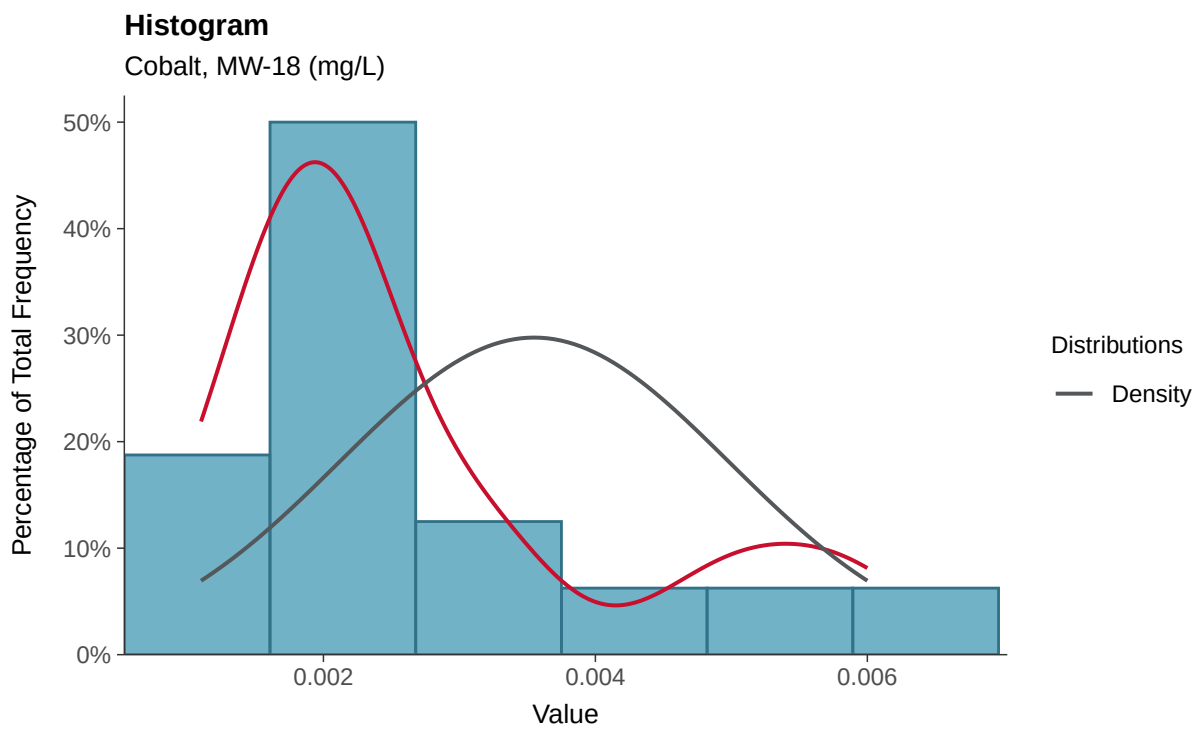
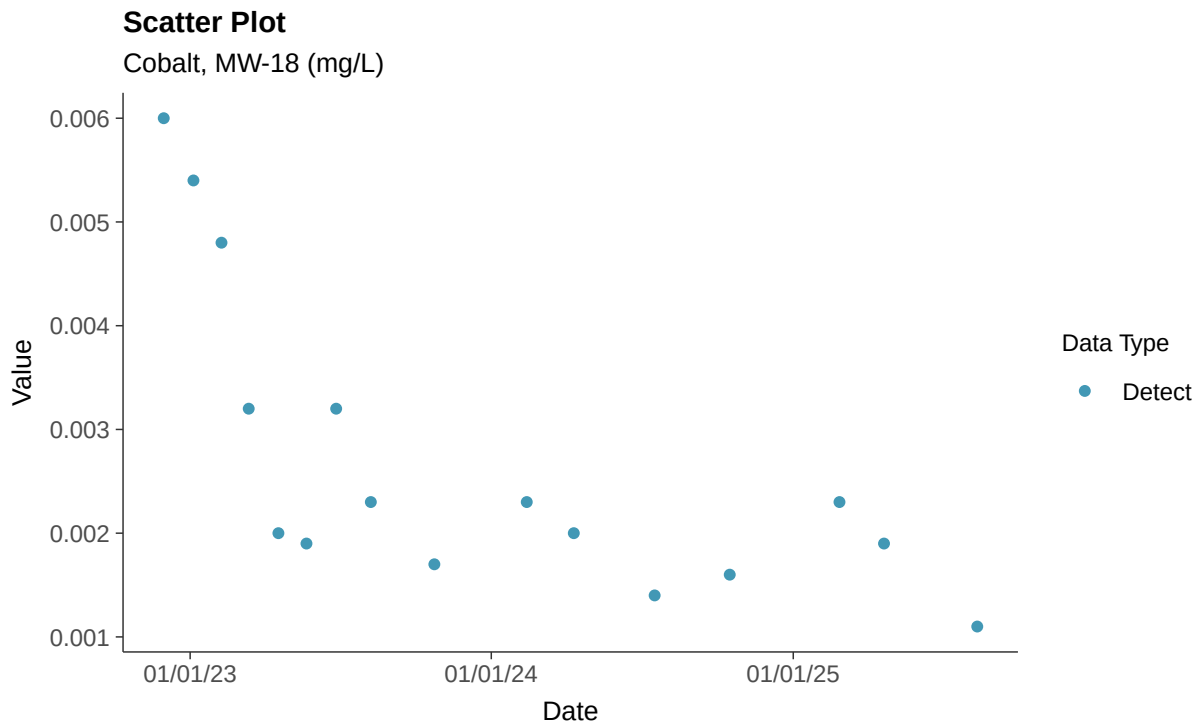


Trend Regression: Piecewise Linear-Linear-Linear
Chromium, Total, MW-18 (mg/L)



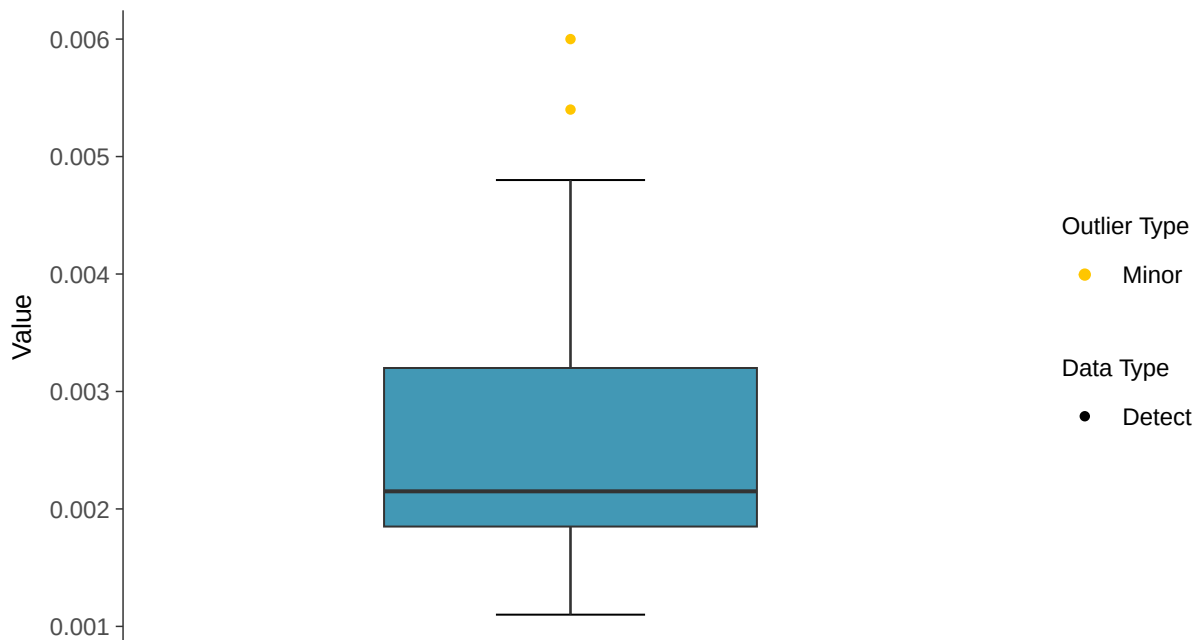
Appendix IV: Cobalt, MW-18

ID: 28_1_4_110



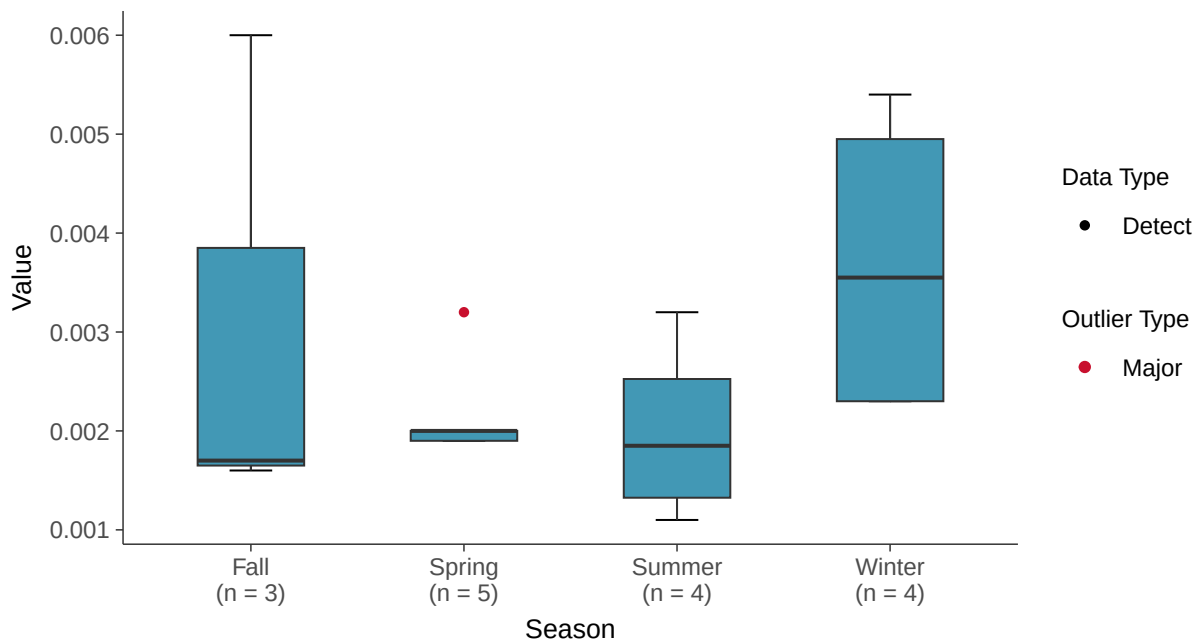
Boxplot

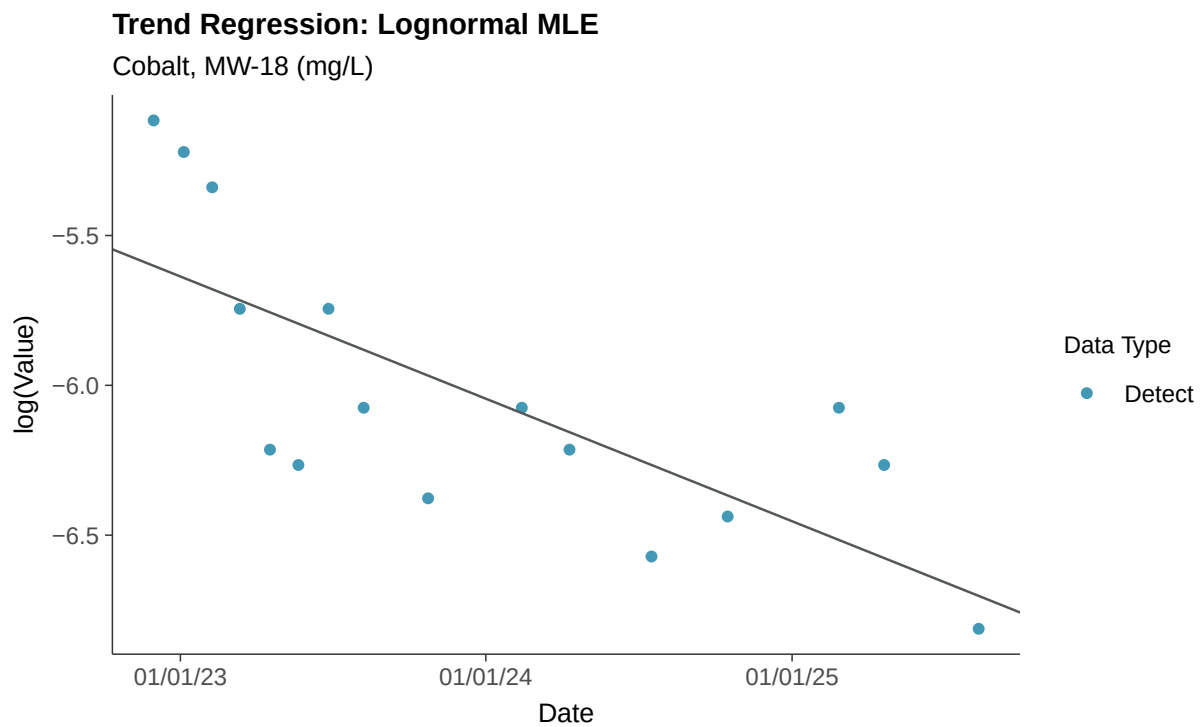
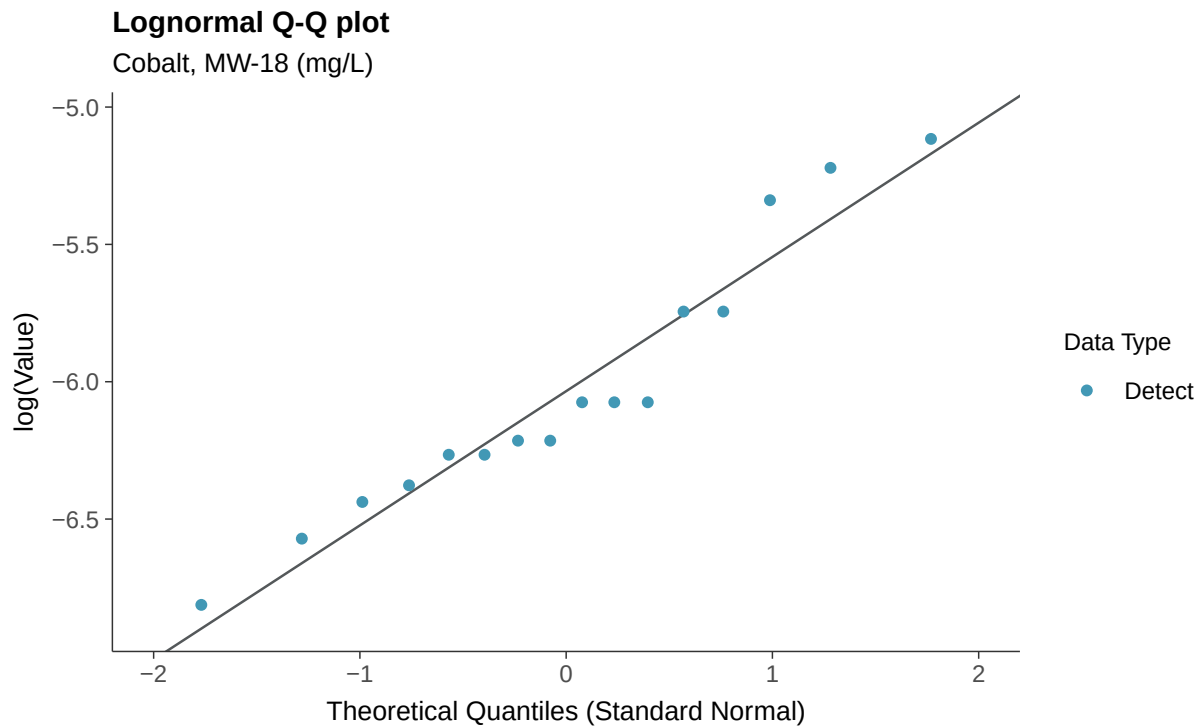
Cobalt, MW-18 (mg/L)



Boxplot by Season

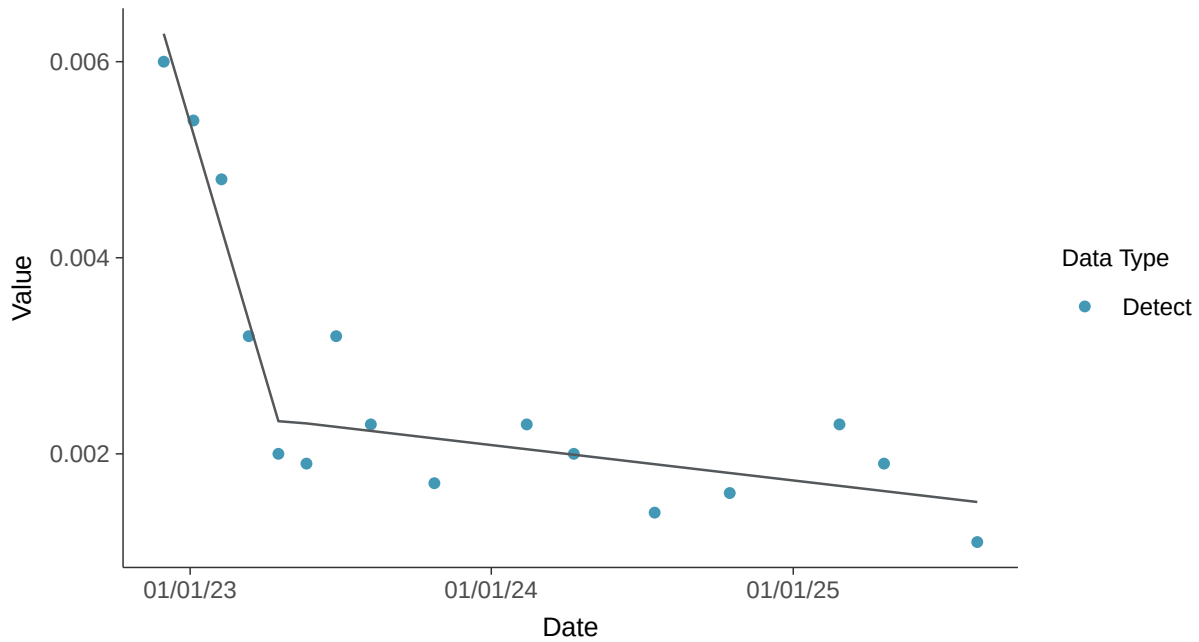
Cobalt, MW-18 (mg/L)





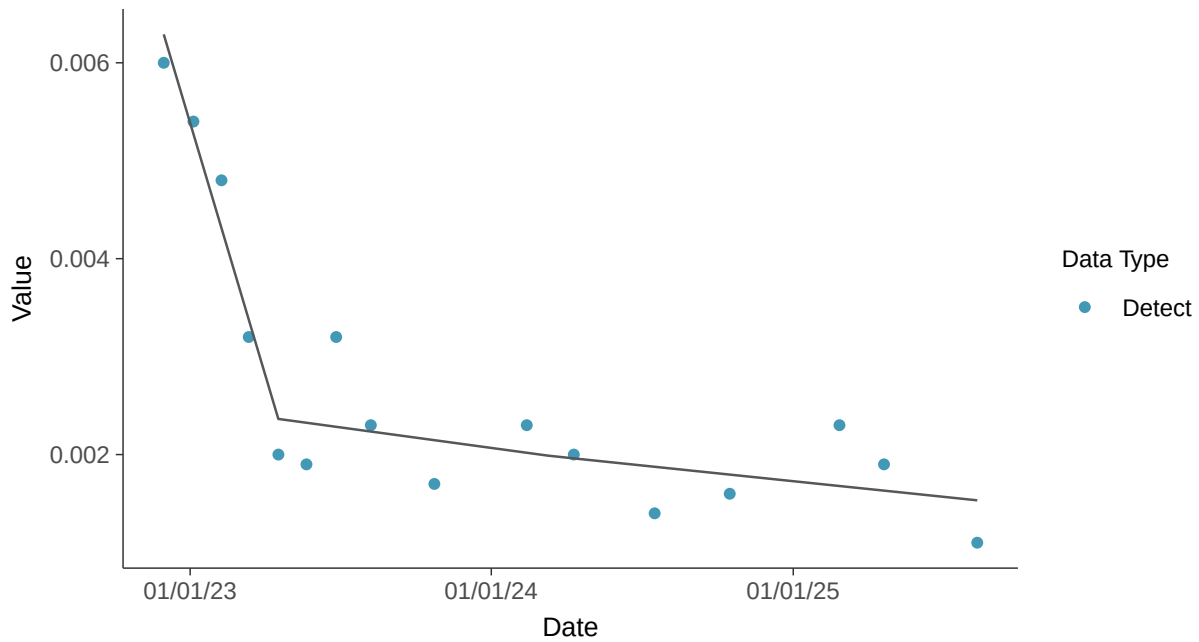
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-18 (mg/L)

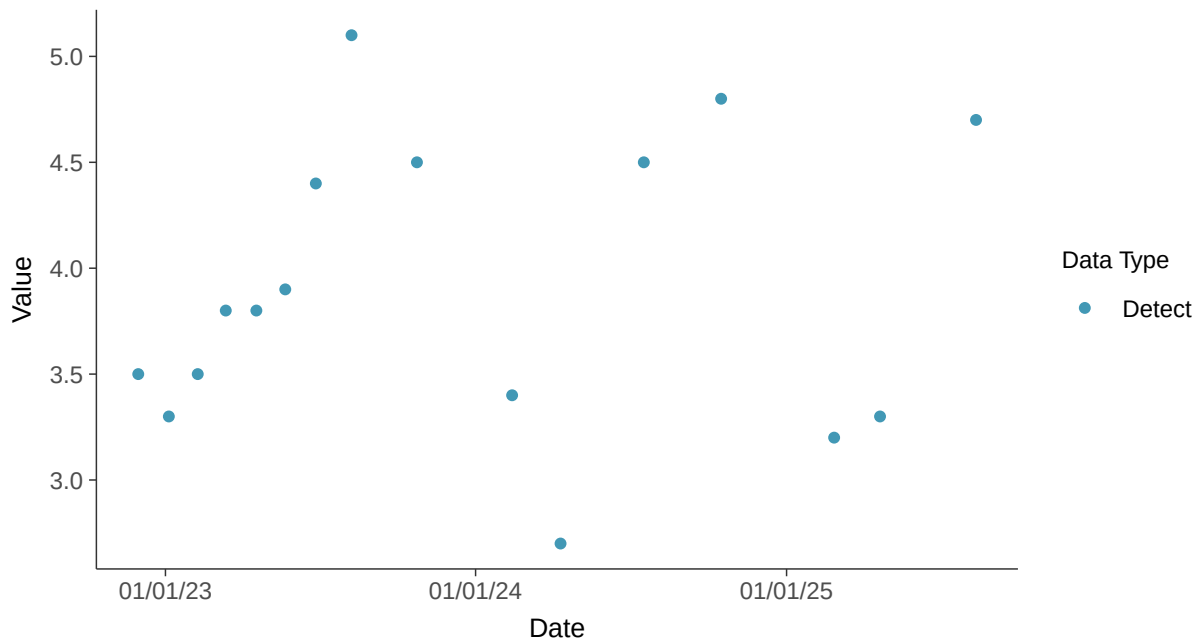


Appendix IV: Fluoride (App IV), MW-18

ID: 28_1_4_113

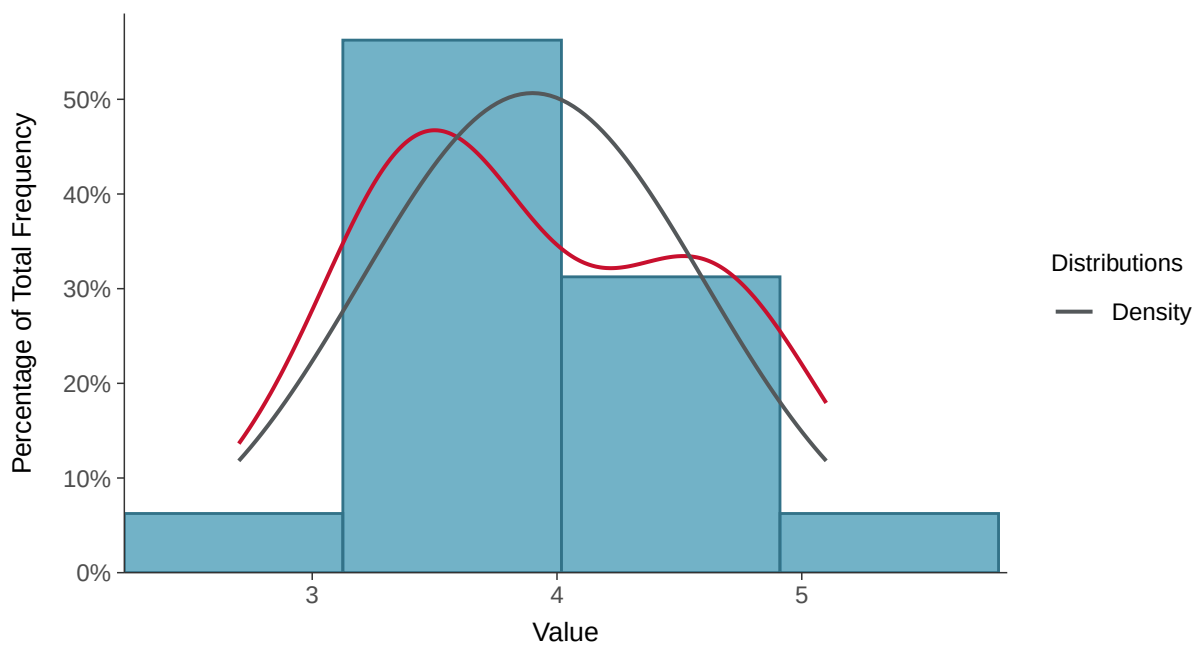
Scatter Plot

Fluoride (App IV), MW-18 (mg/L)



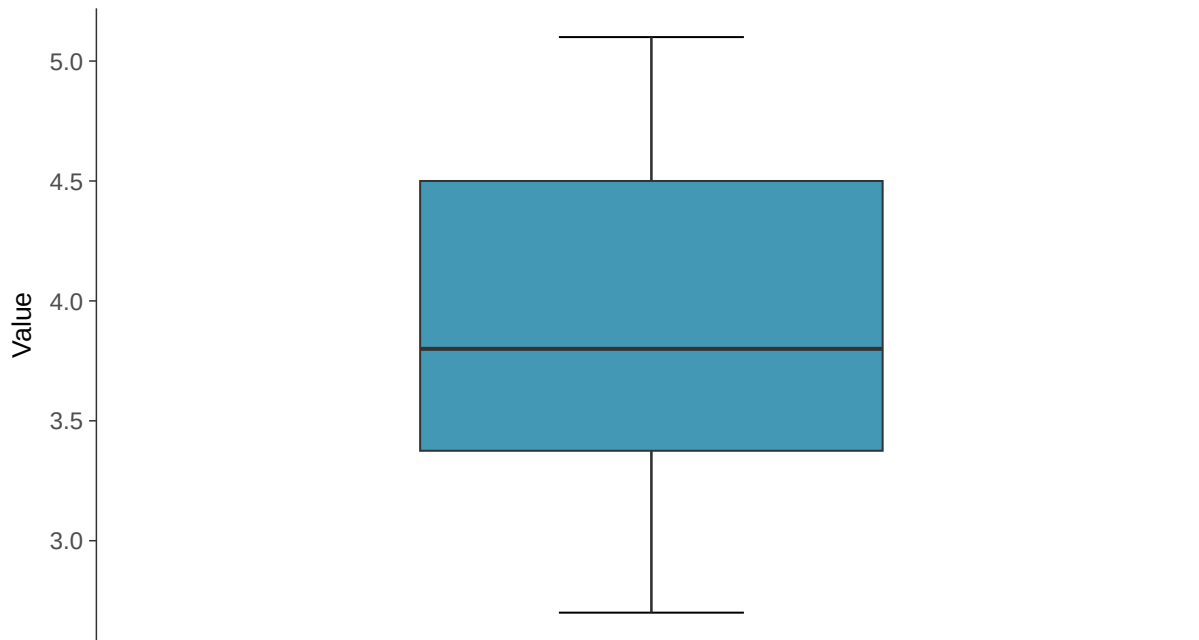
Histogram

Fluoride (App IV), MW-18 (mg/L)



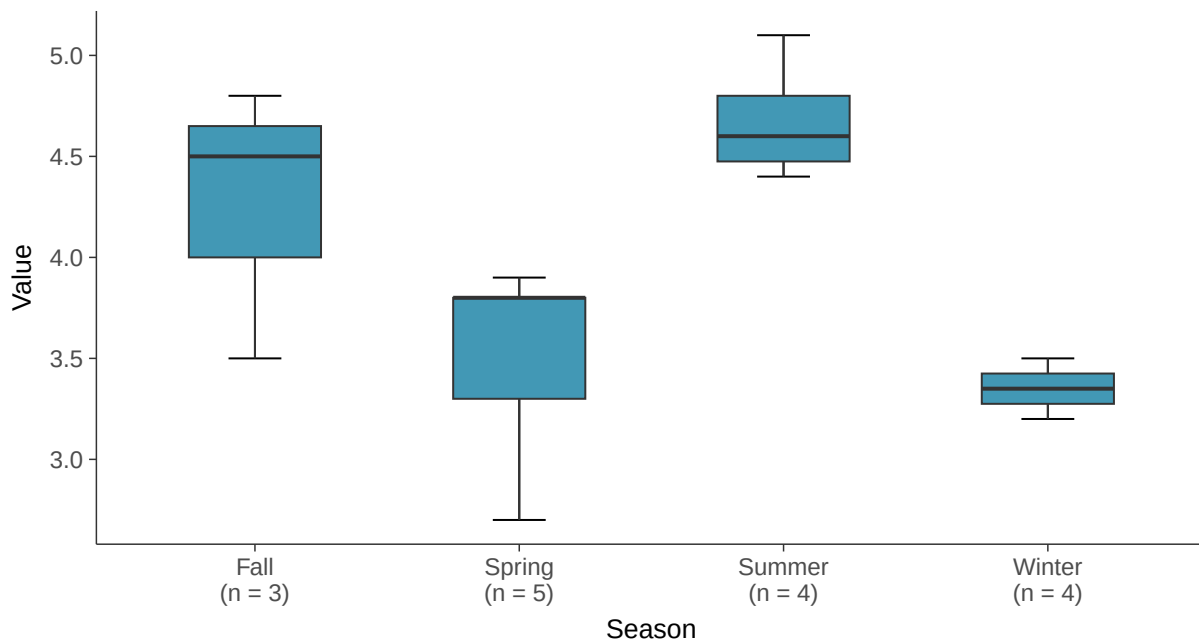
Boxplot

Fluoride (App IV), MW-18 (mg/L)



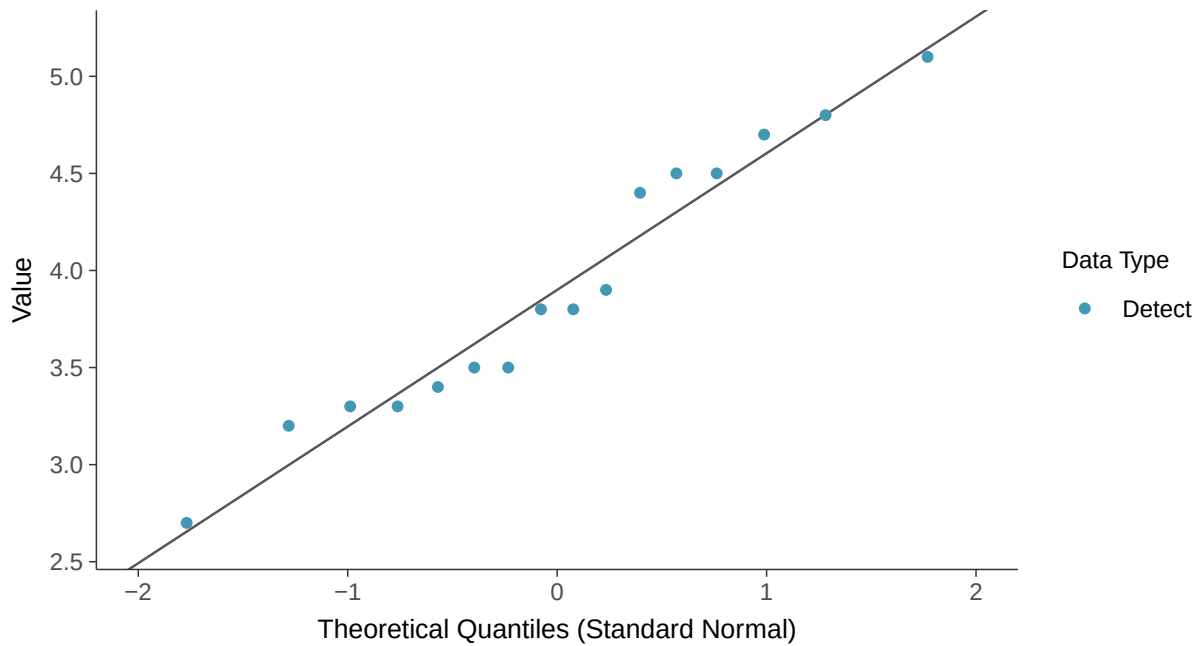
Boxplot by Season

Fluoride (App IV), MW-18 (mg/L)



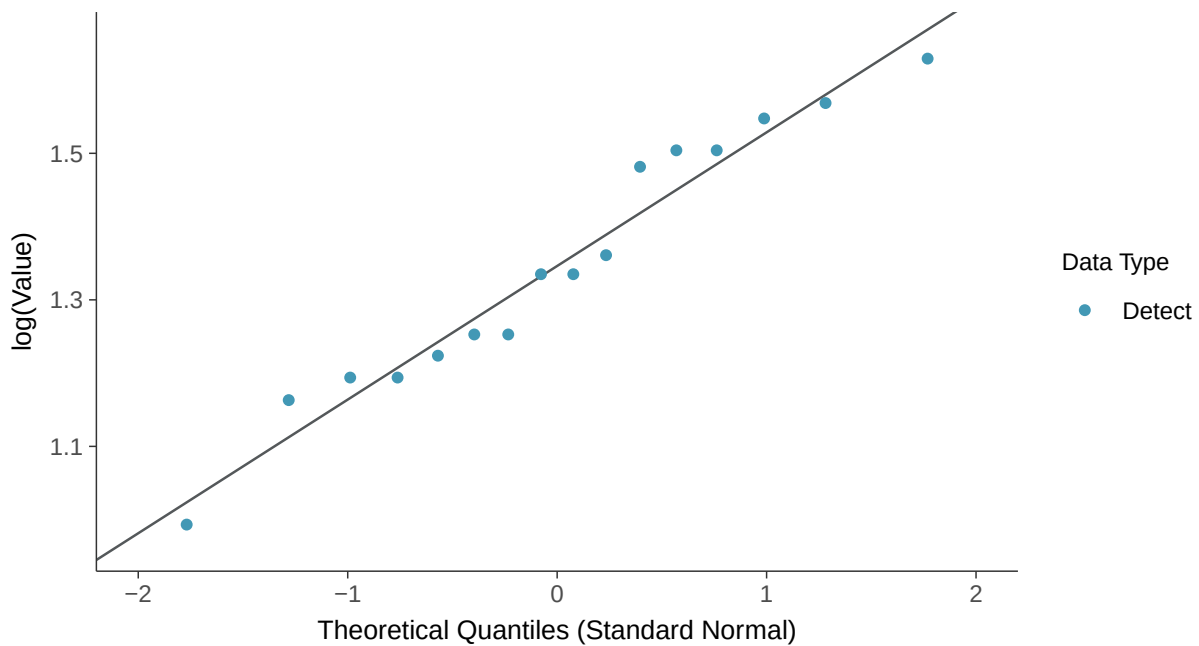
Normal Q-Q plot

Fluoride (App IV), MW-18 (mg/L)



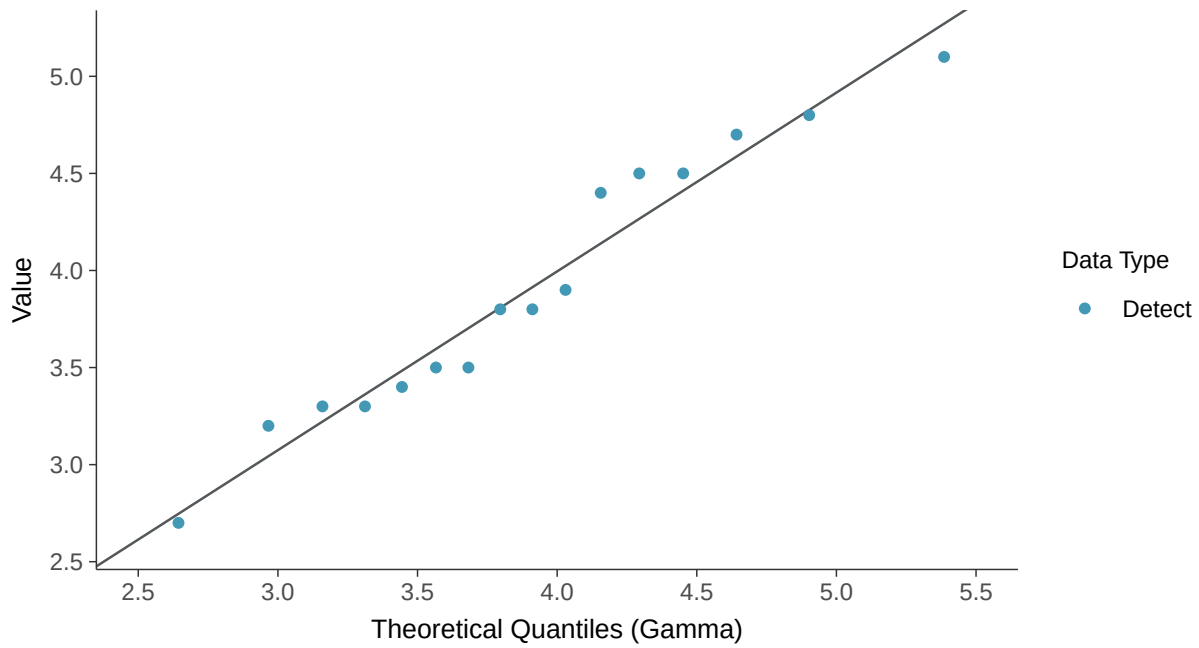
Lognormal Q-Q plot

Fluoride (App IV), MW-18 (mg/L)



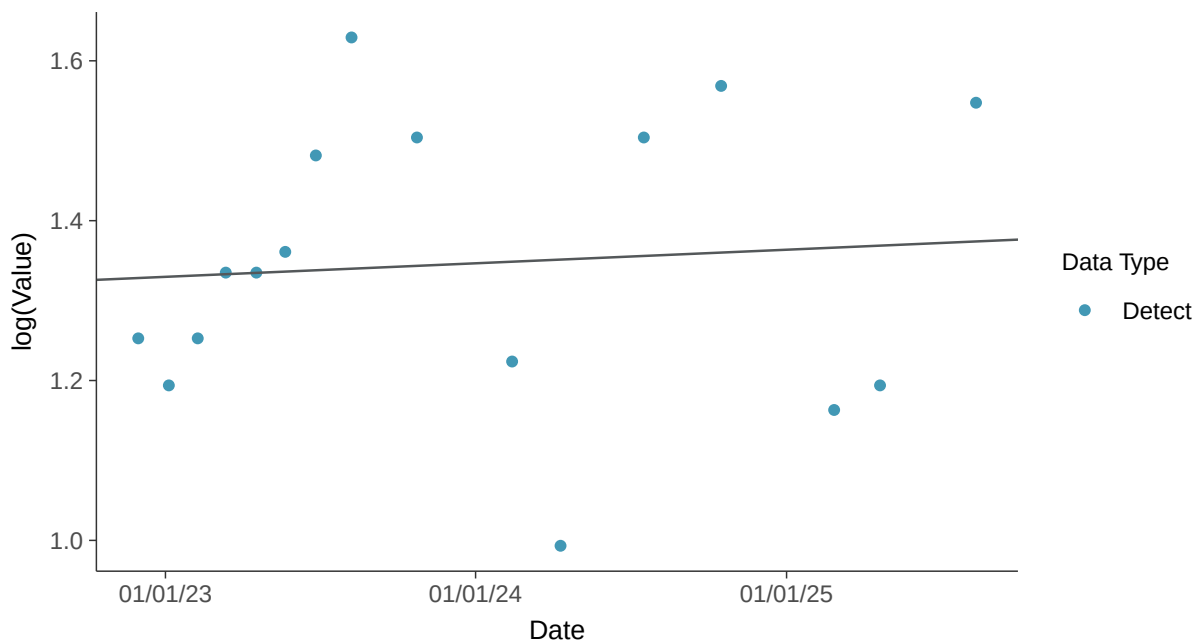
Gamma Q-Q plot

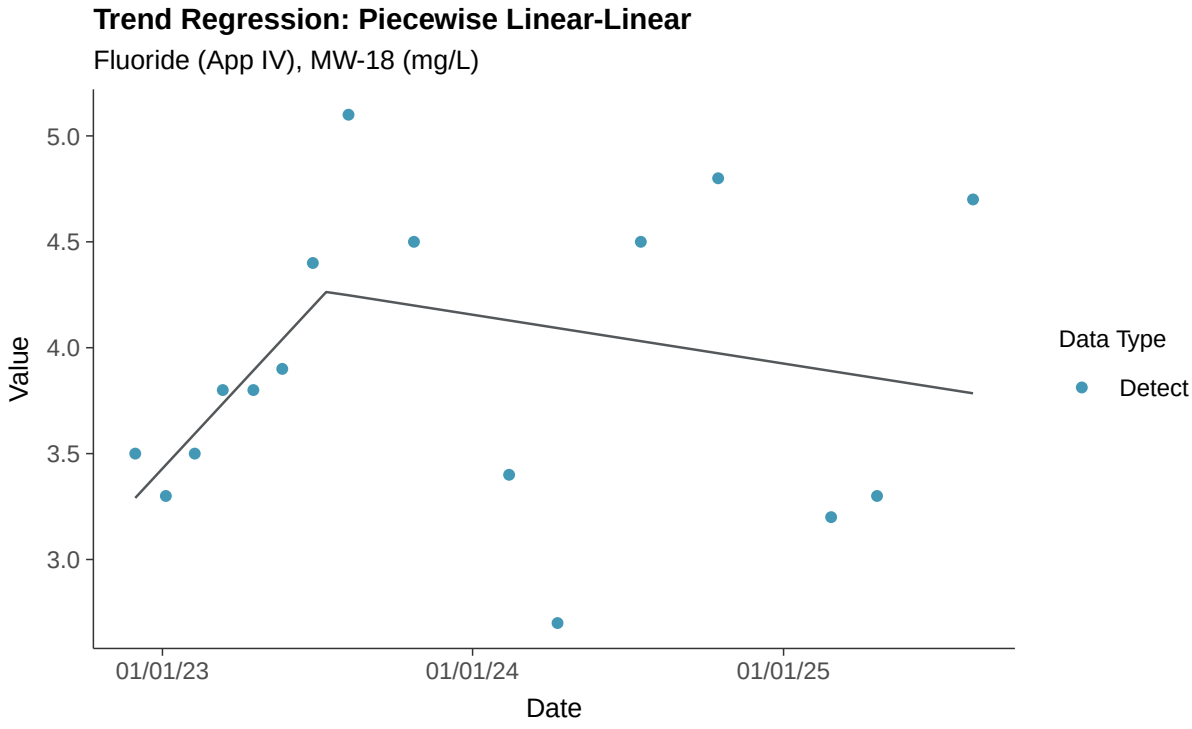
Fluoride (App IV), MW-18 (mg/L)

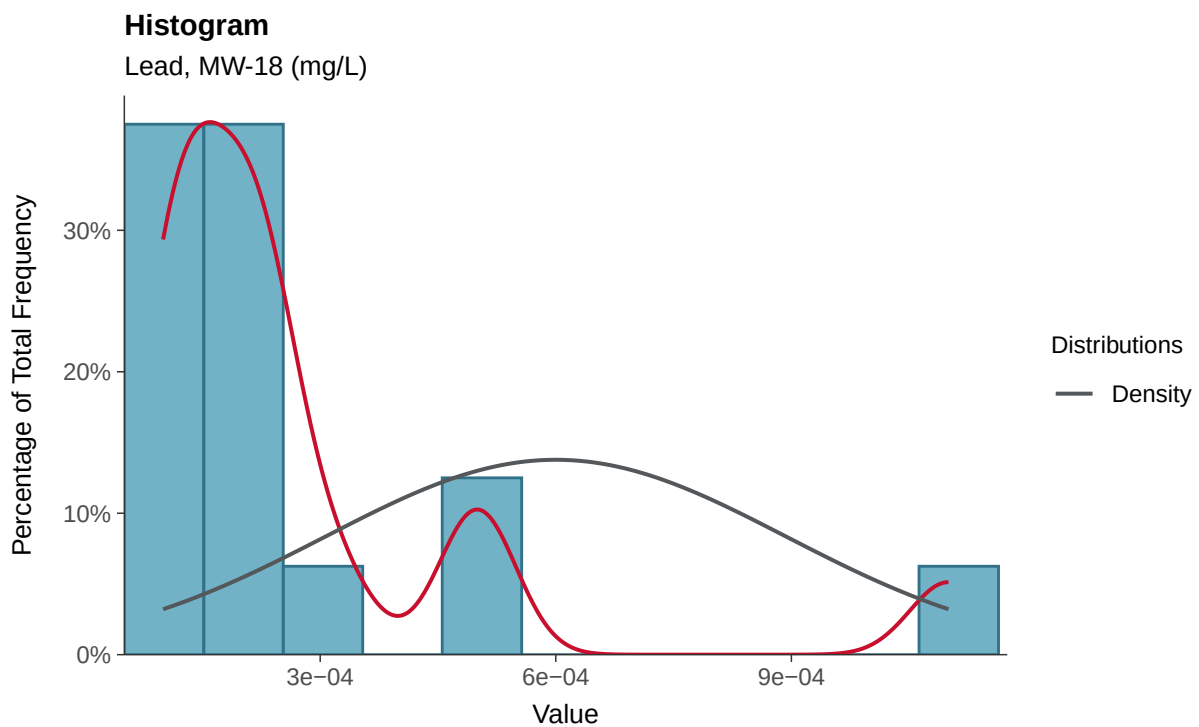


Trend Regression: Lognormal MLE

Fluoride (App IV), MW-18 (mg/L)

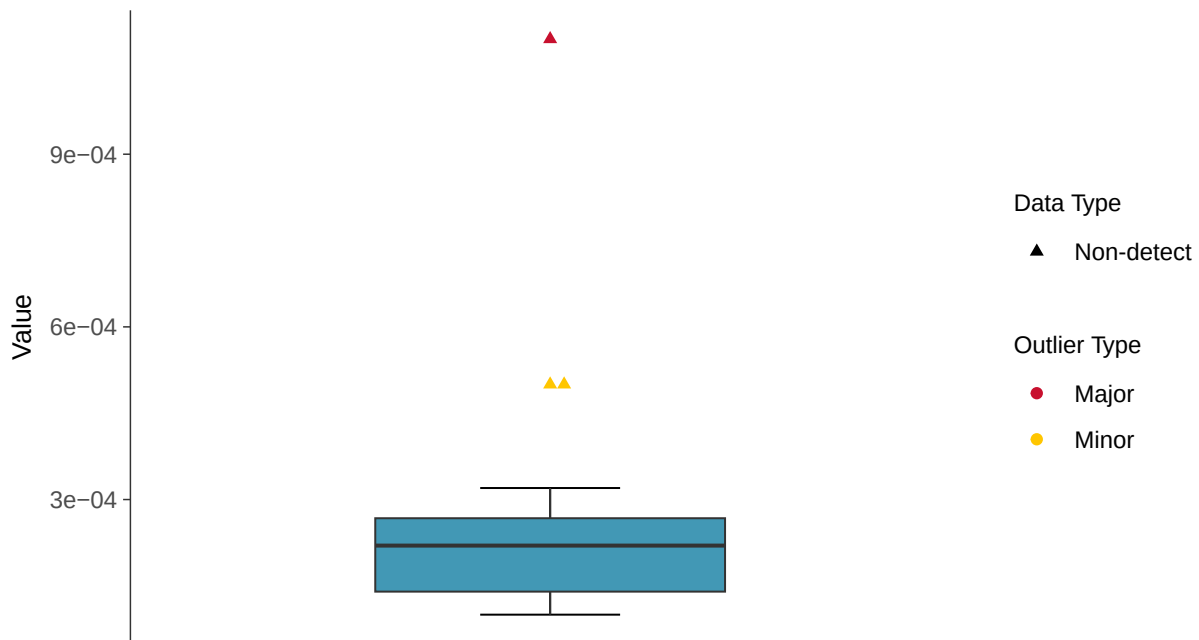






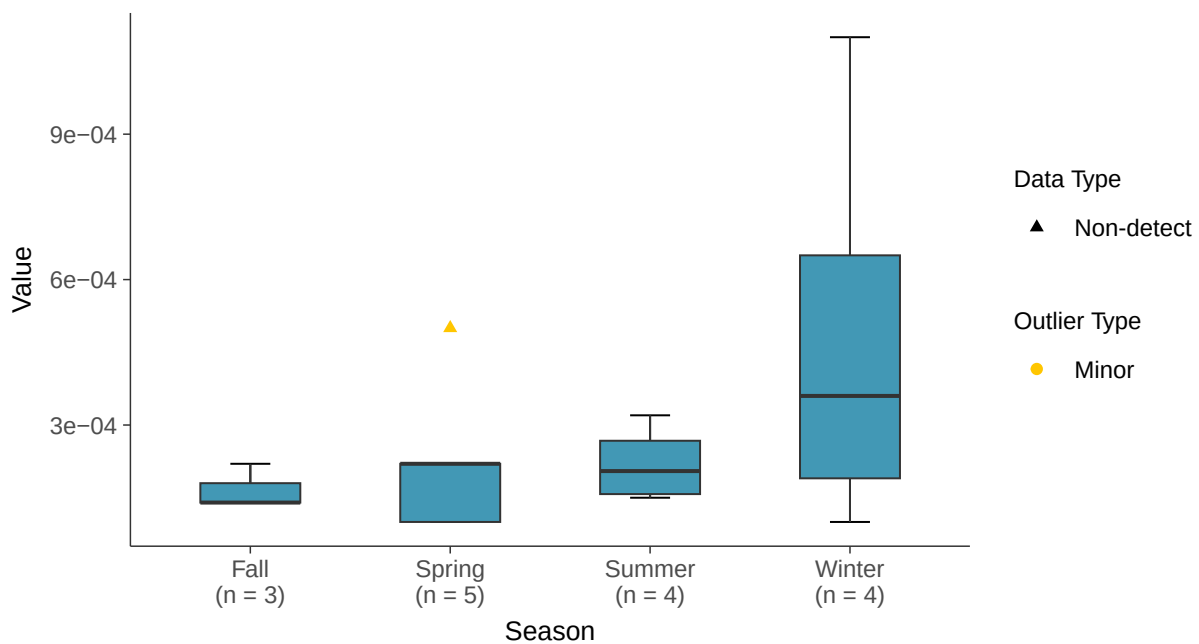
Boxplot

Lead, MW-18 (mg/L)

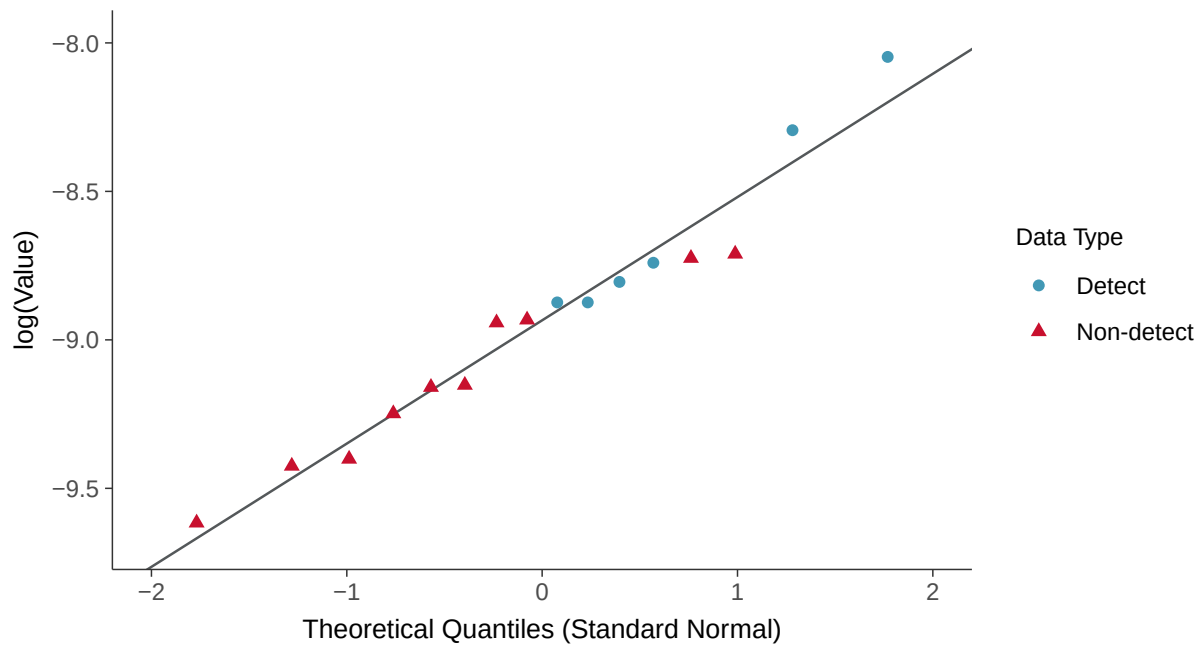


Boxplot by Season

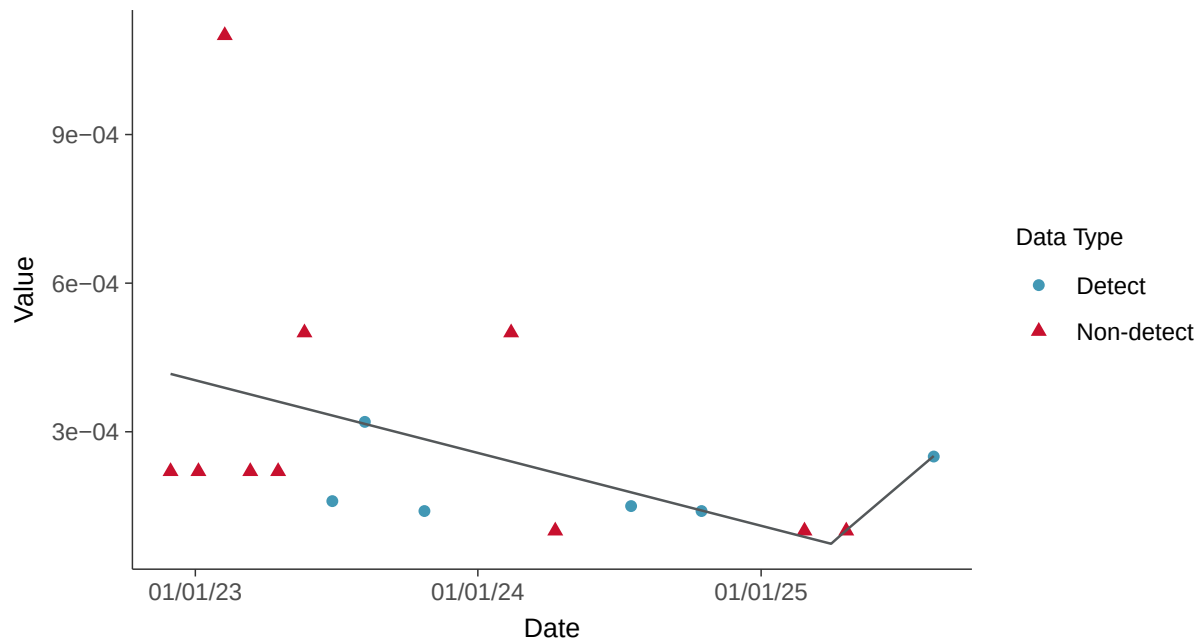
Lead, MW-18 (mg/L)



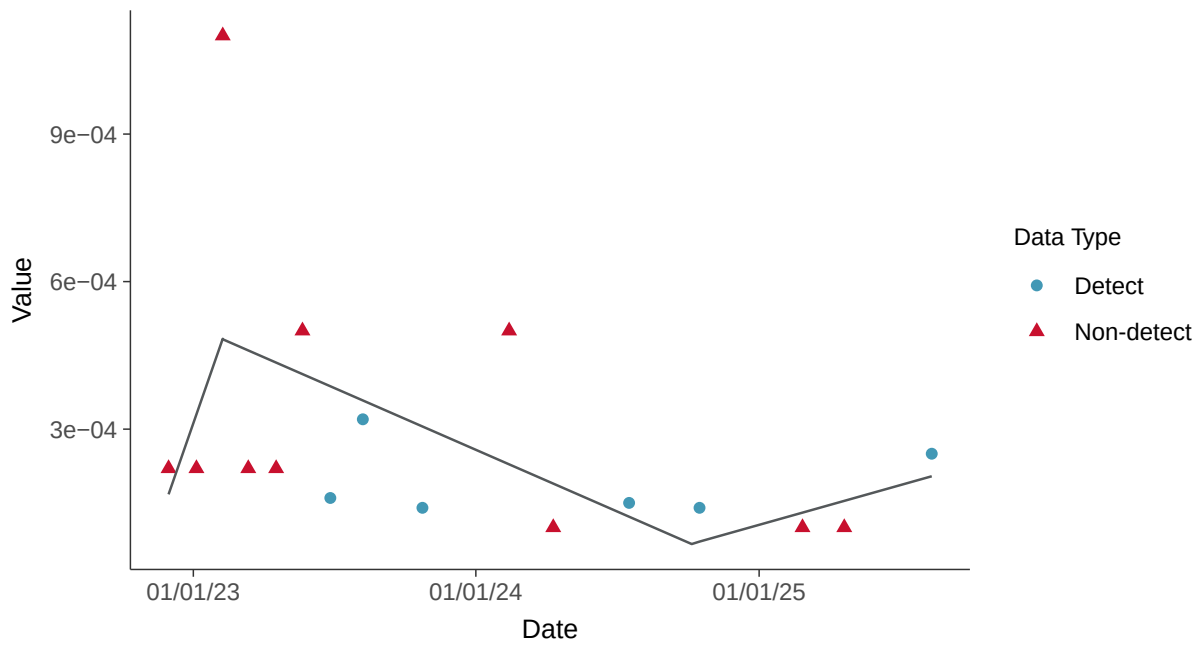
Lead, MW-18 (mg/L)



Lead, MW-18 (mg/L)

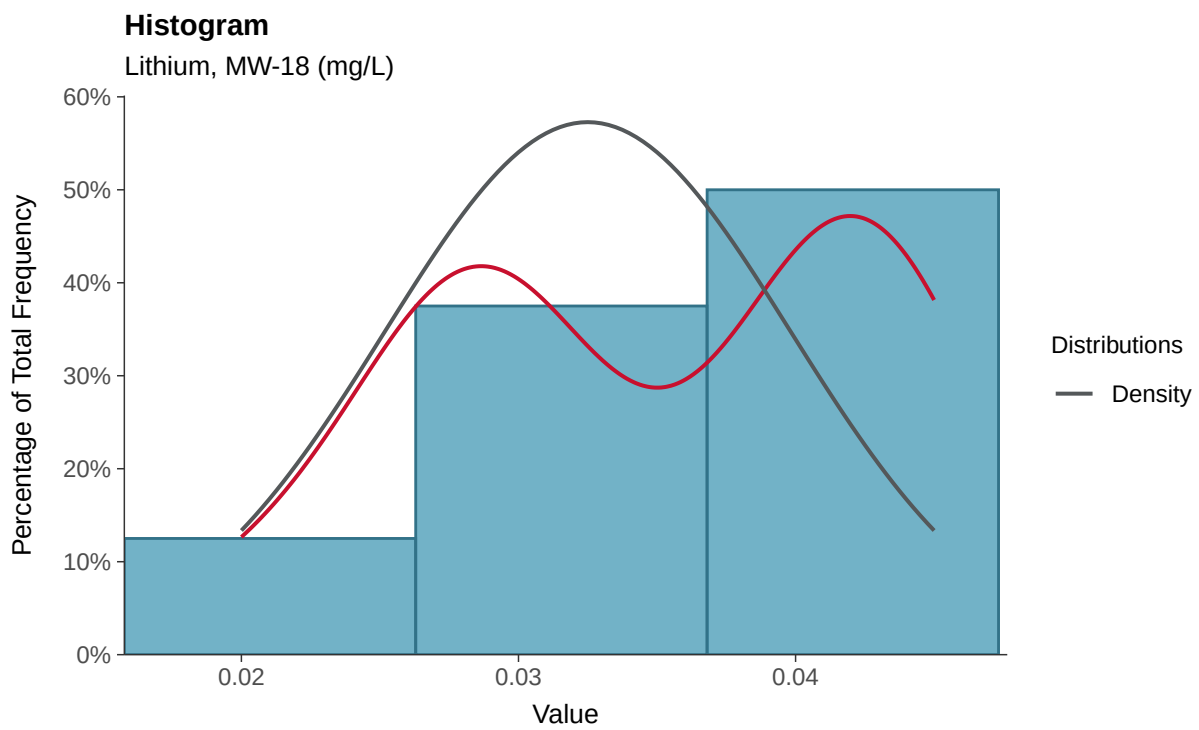
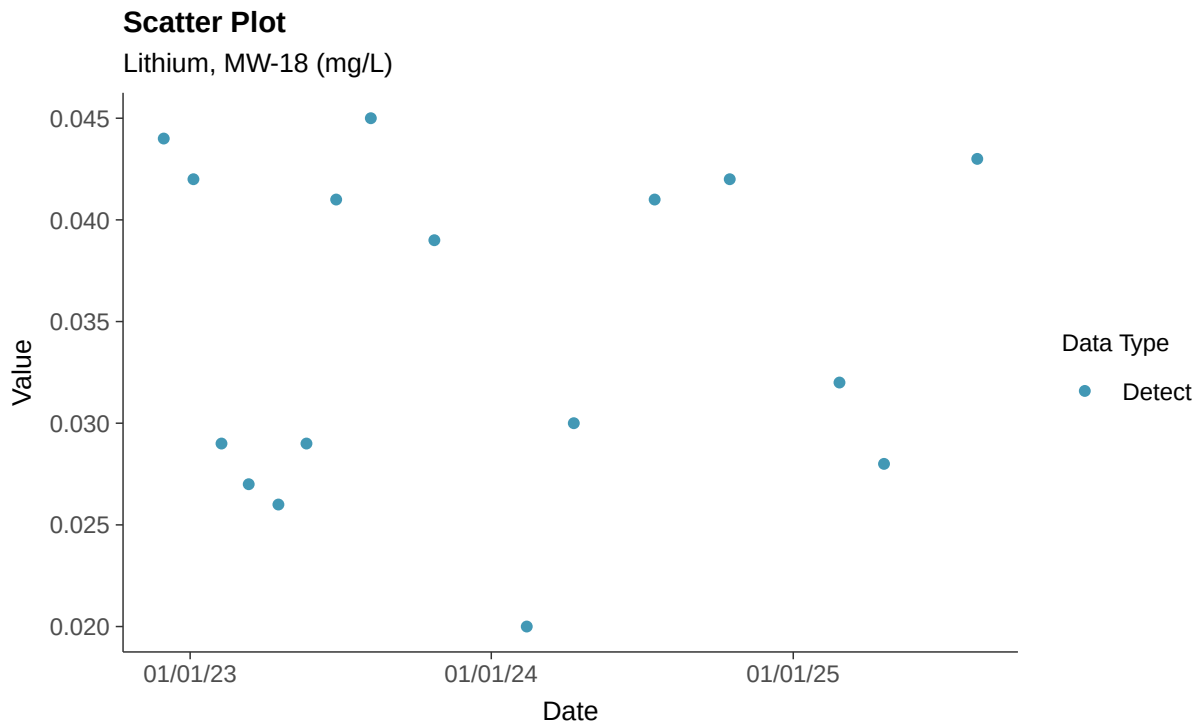


Lead, MW-18 (mg/L)



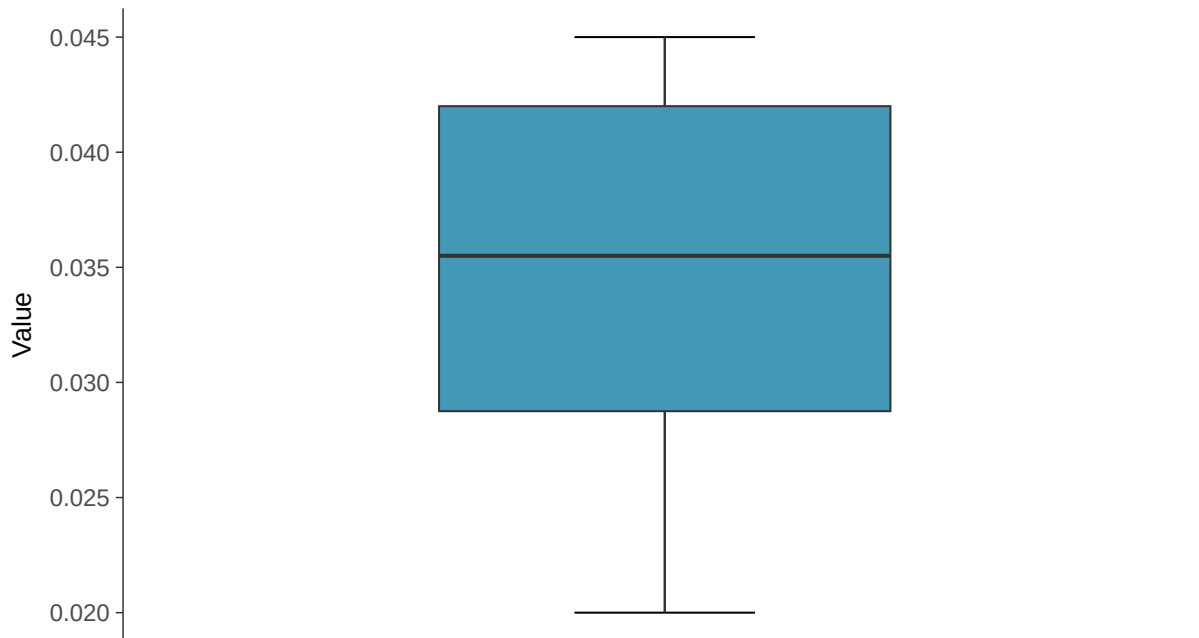
Appendix IV: Lithium, MW-18

ID: 28_1_4_116



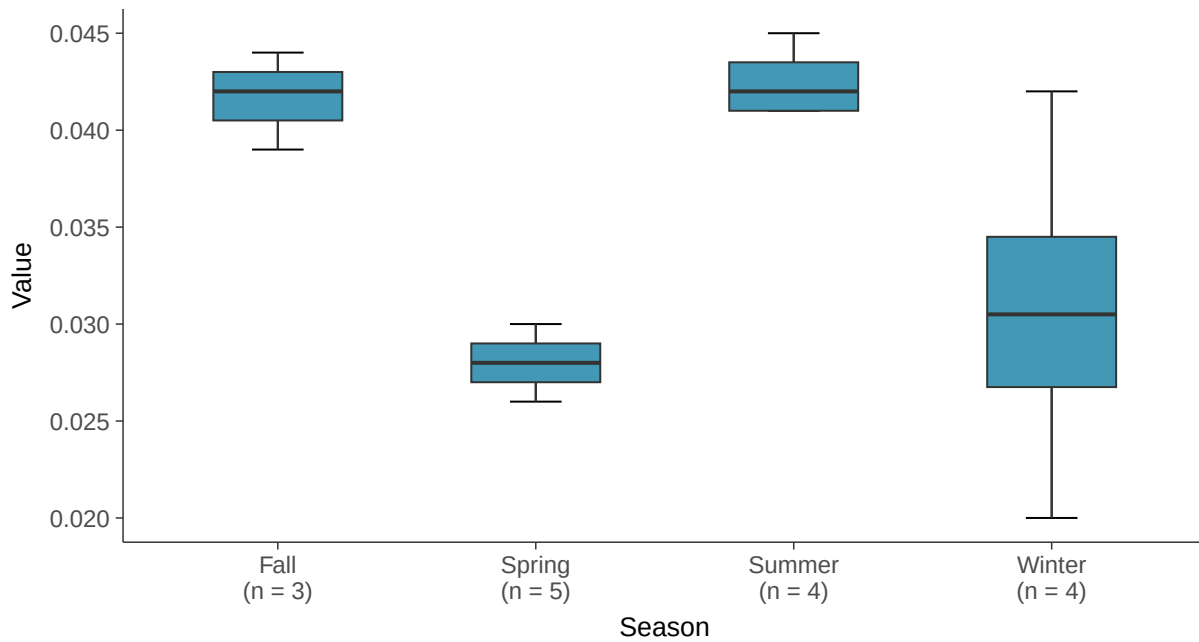
Boxplot

Lithium, MW-18 (mg/L)



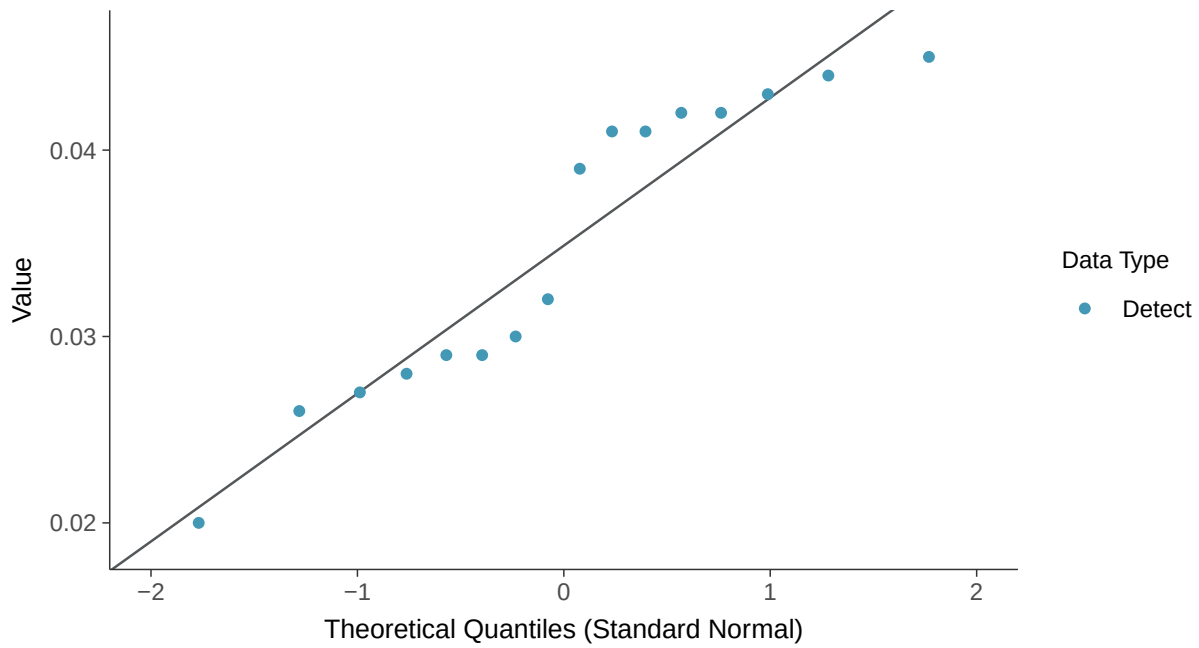
Boxplot by Season

Lithium, MW-18 (mg/L)



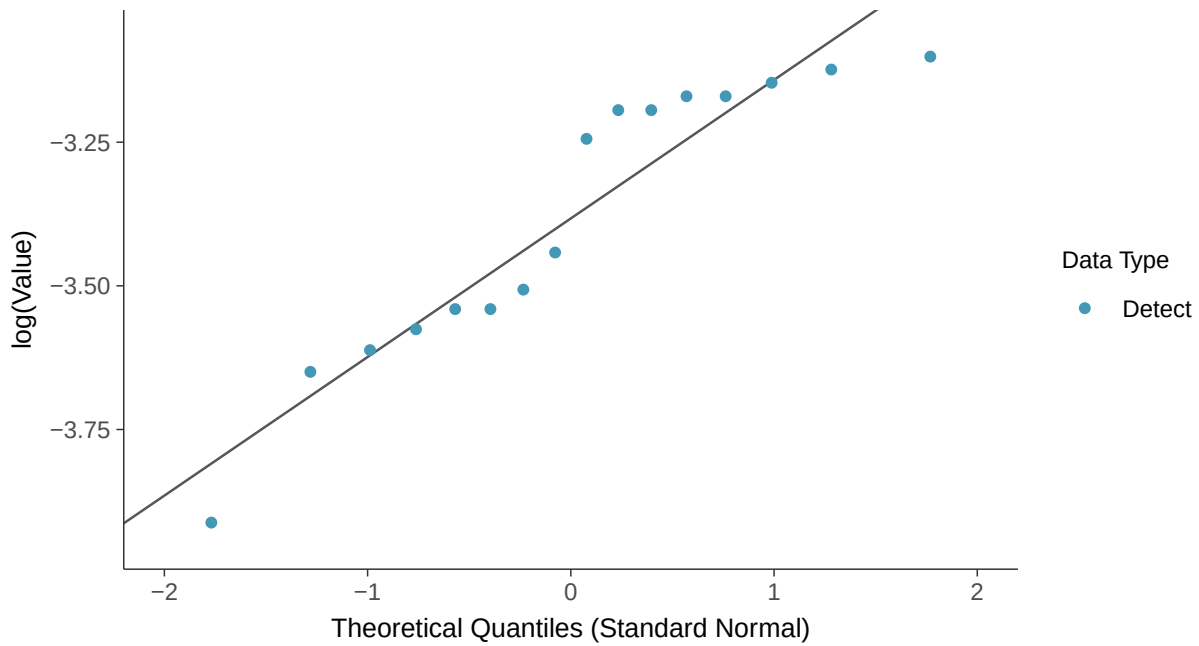
Normal Q-Q plot

Lithium, MW-18 (mg/L)



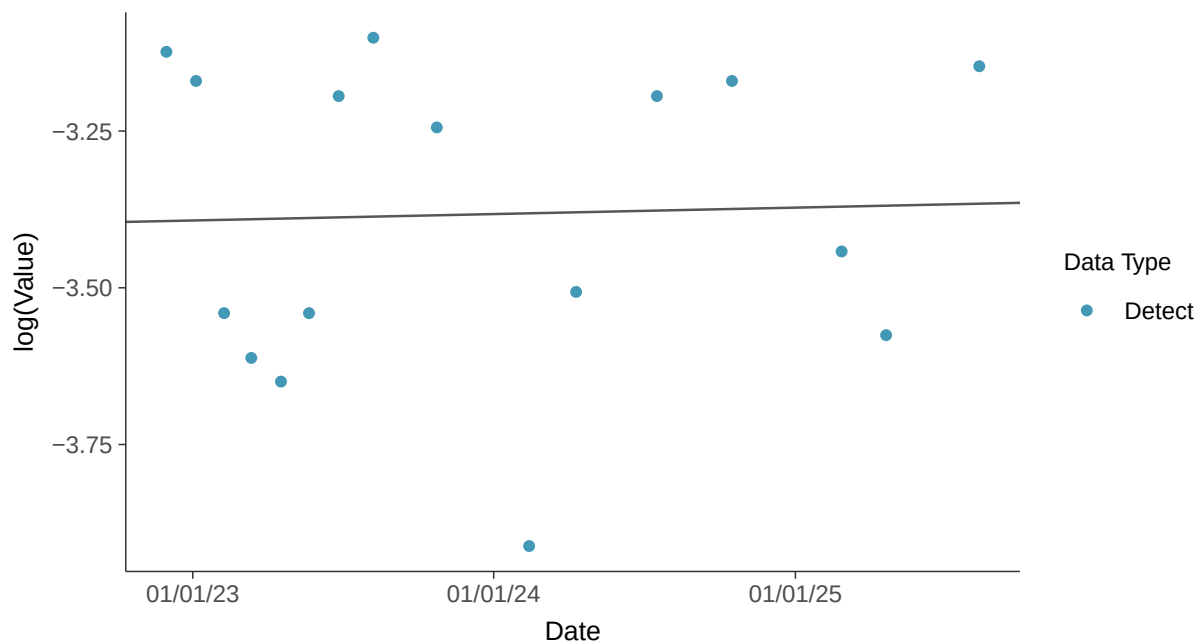
Lognormal Q-Q plot

Lithium, MW-18 (mg/L)



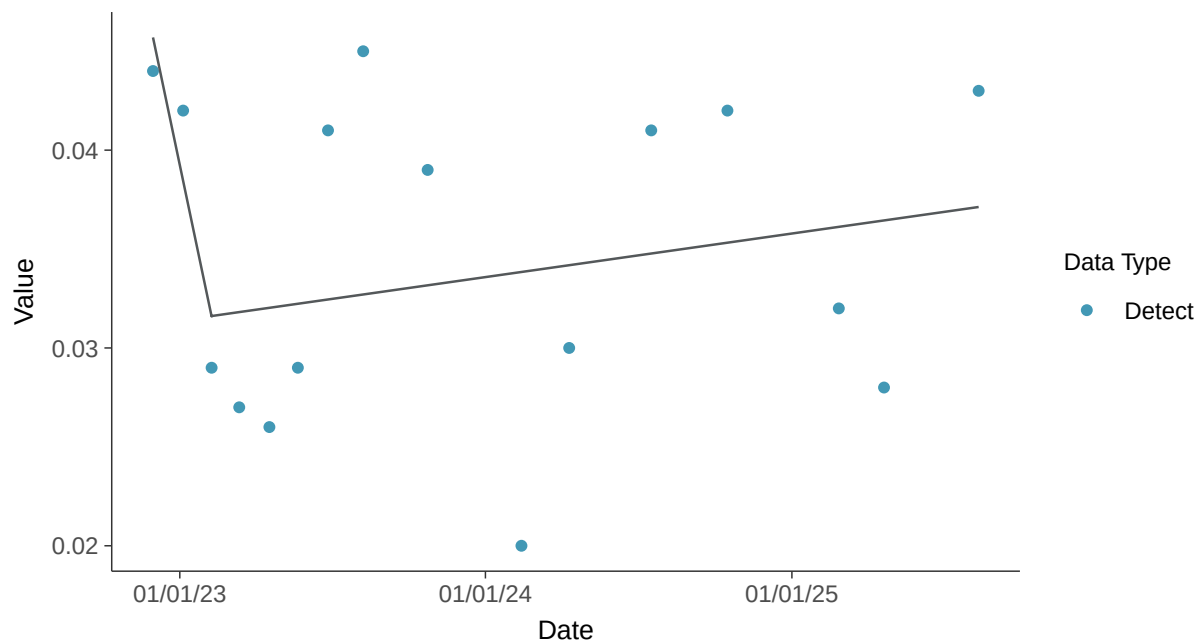
Trend Regression: Lognormal MLE

Lithium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

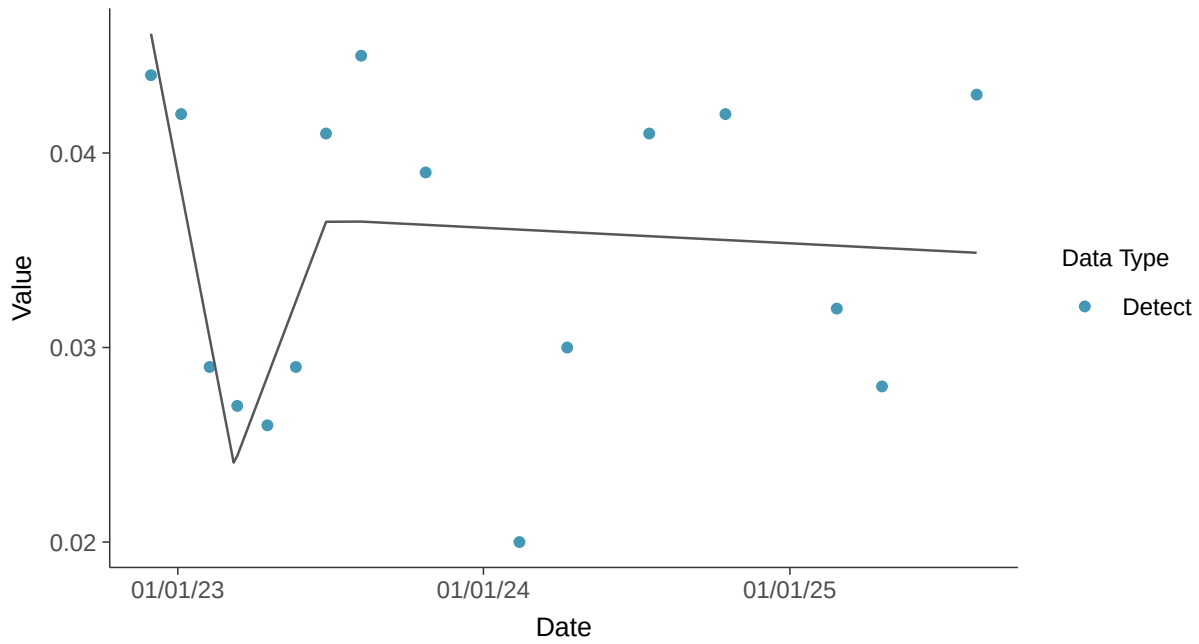
Lithium, MW-18 (mg/L)

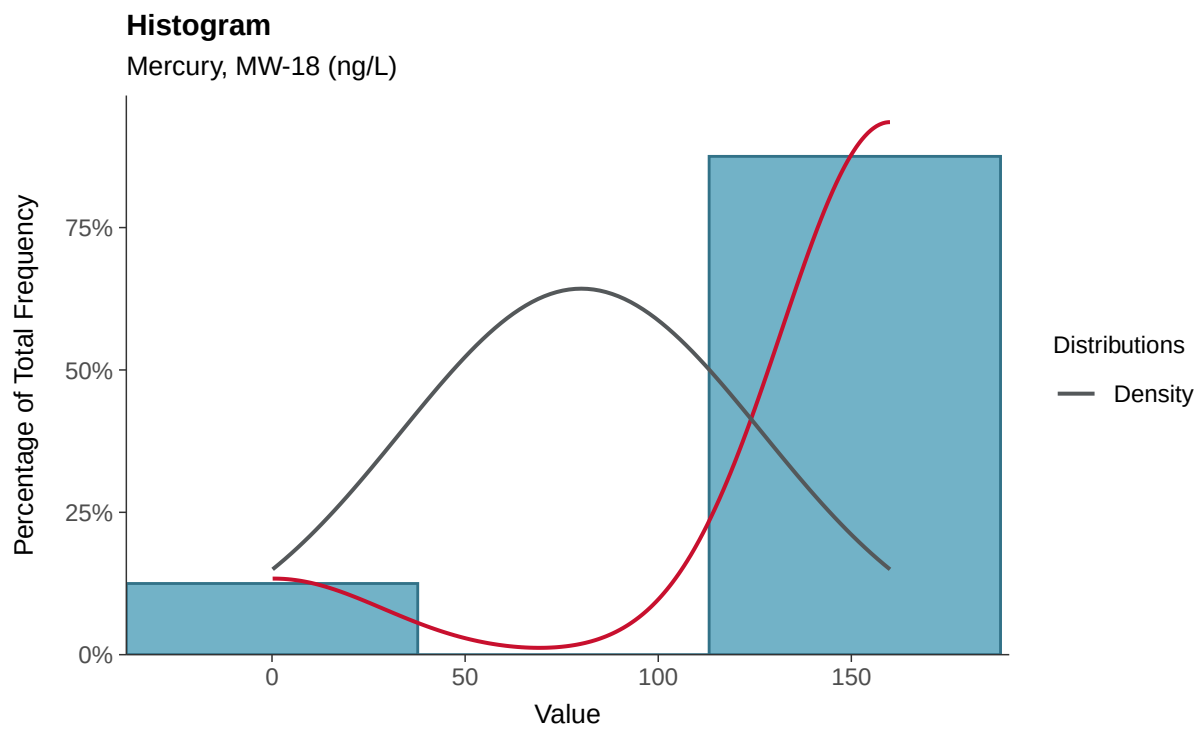




Trend Regression: Piecewise Linear-Linear-Linear

Lithium, MW-18 (mg/L)





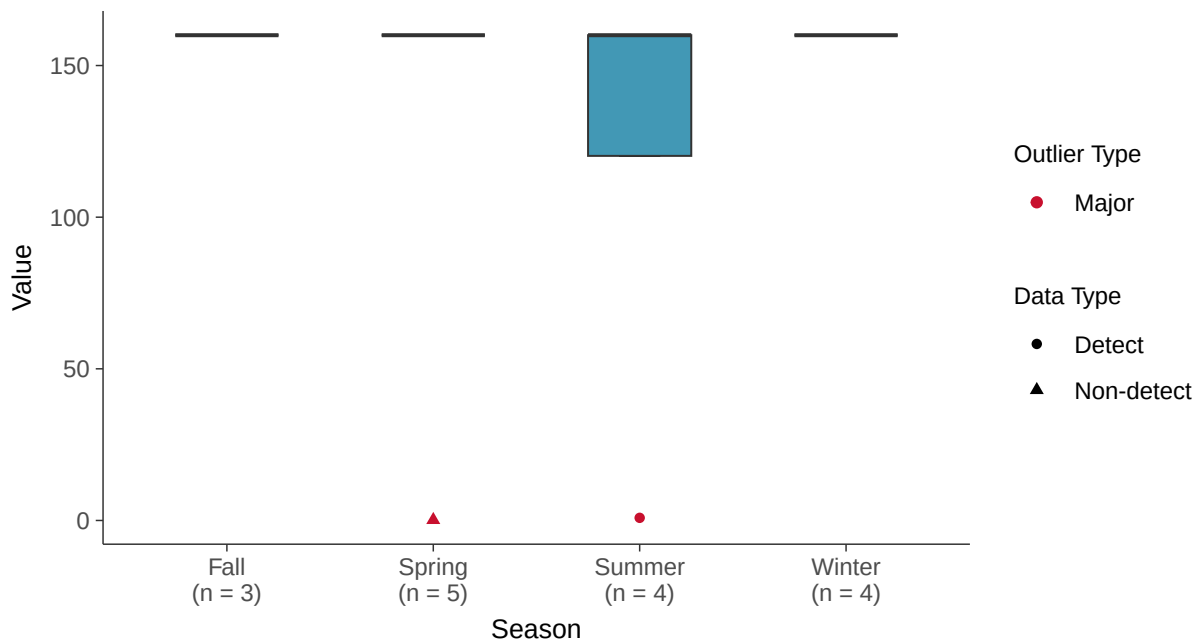
Boxplot

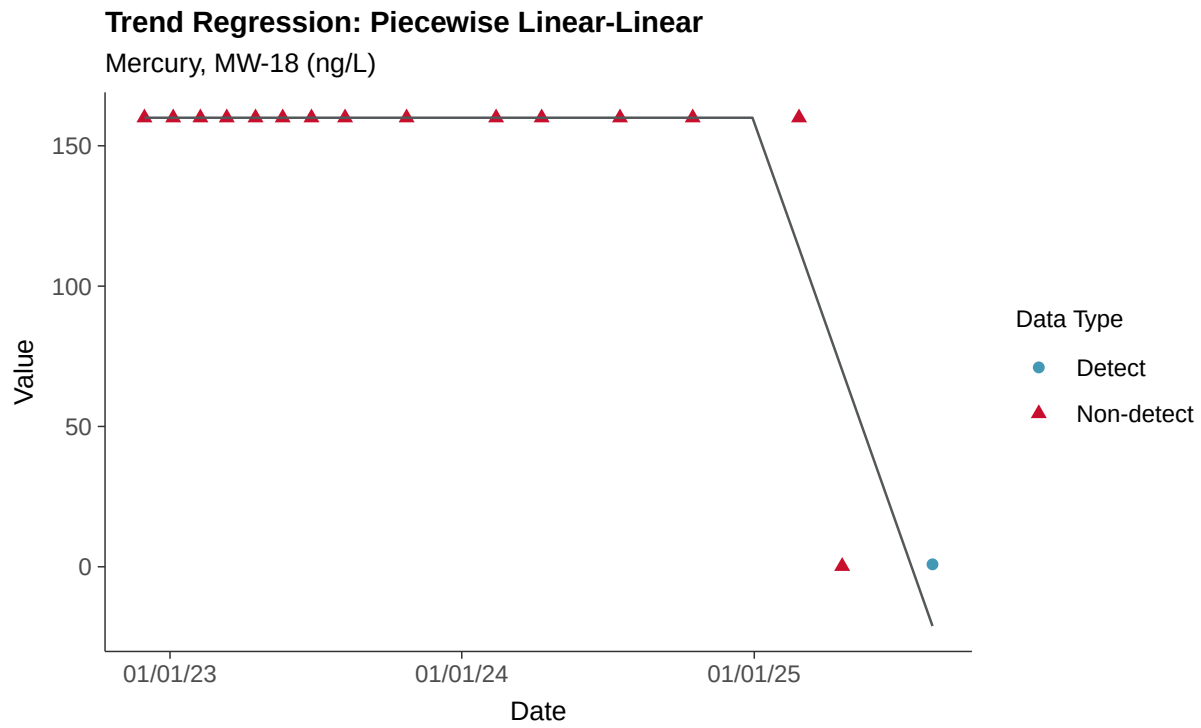
Mercury, MW-18 (ng/L)



Boxplot by Season

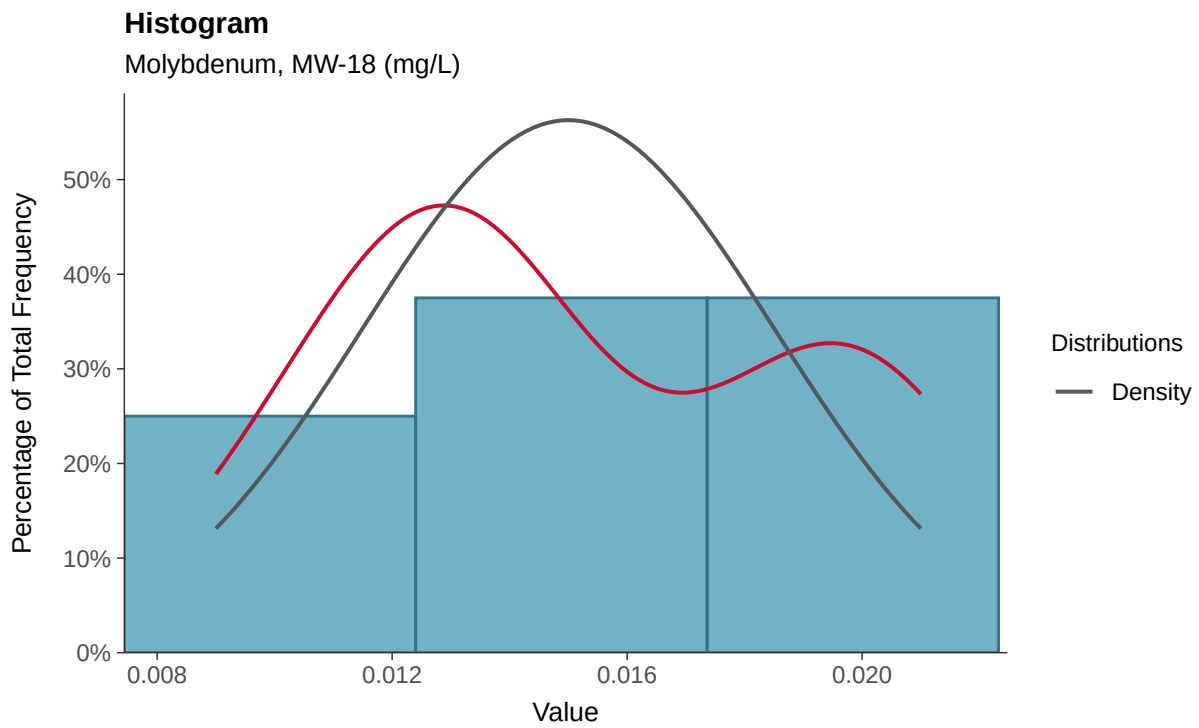
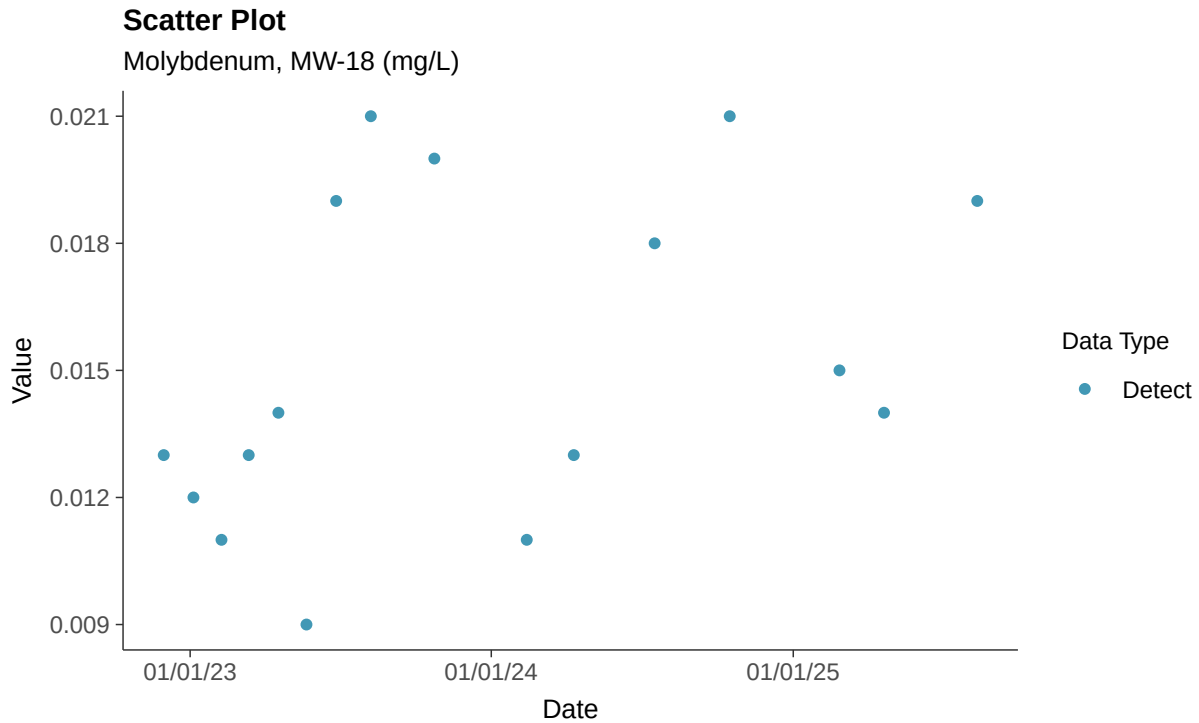
Mercury, MW-18 (ng/L)





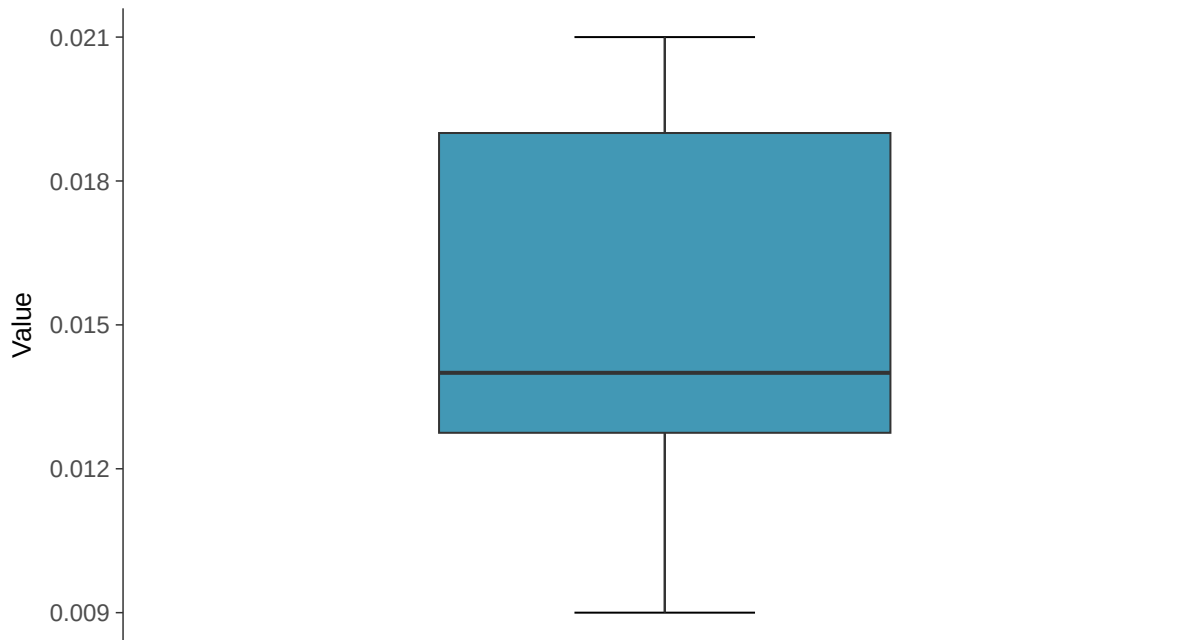
Appendix IV: Molybdenum, MW-18

ID: 28_1_4_118



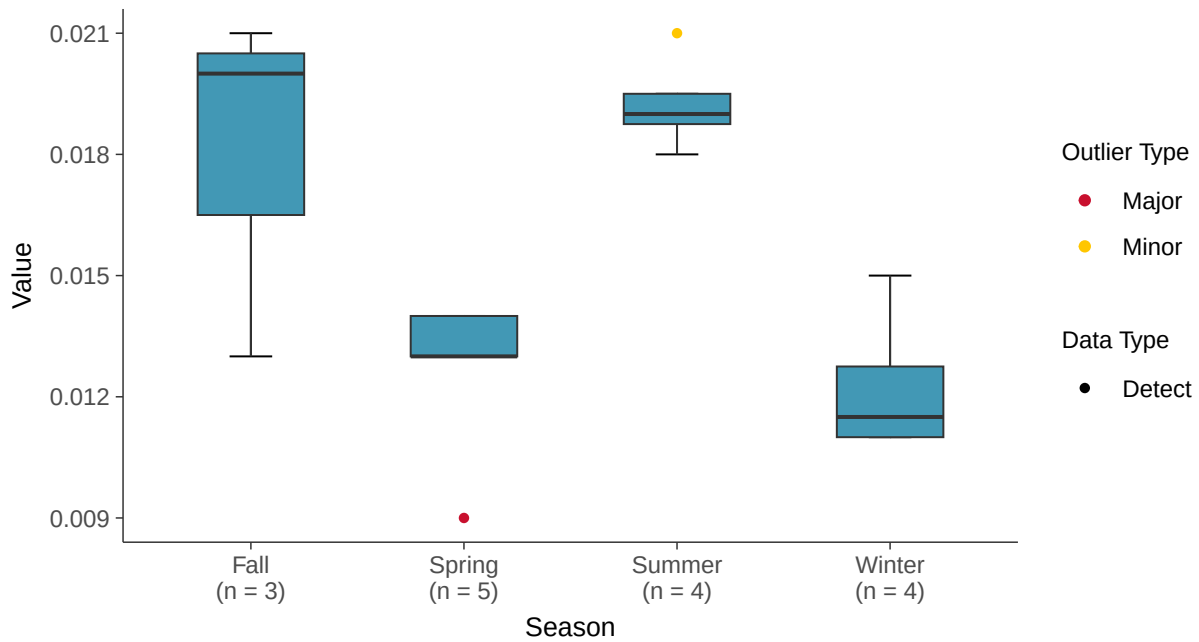
Boxplot

Molybdenum, MW-18 (mg/L)



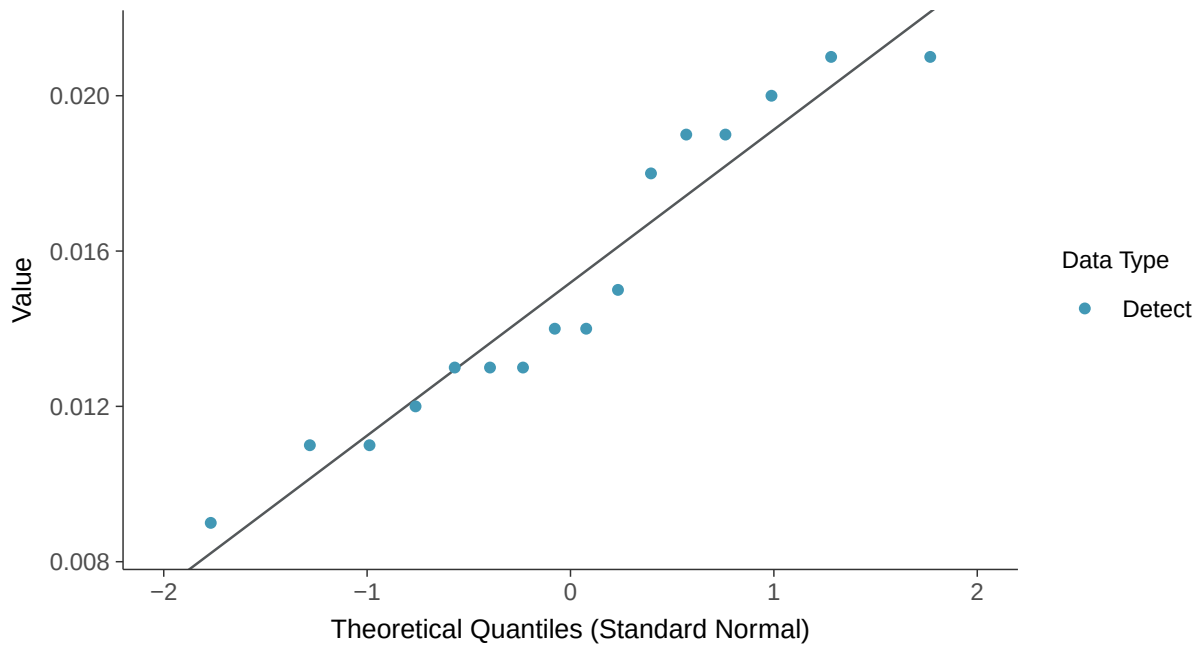
Boxplot by Season

Molybdenum, MW-18 (mg/L)



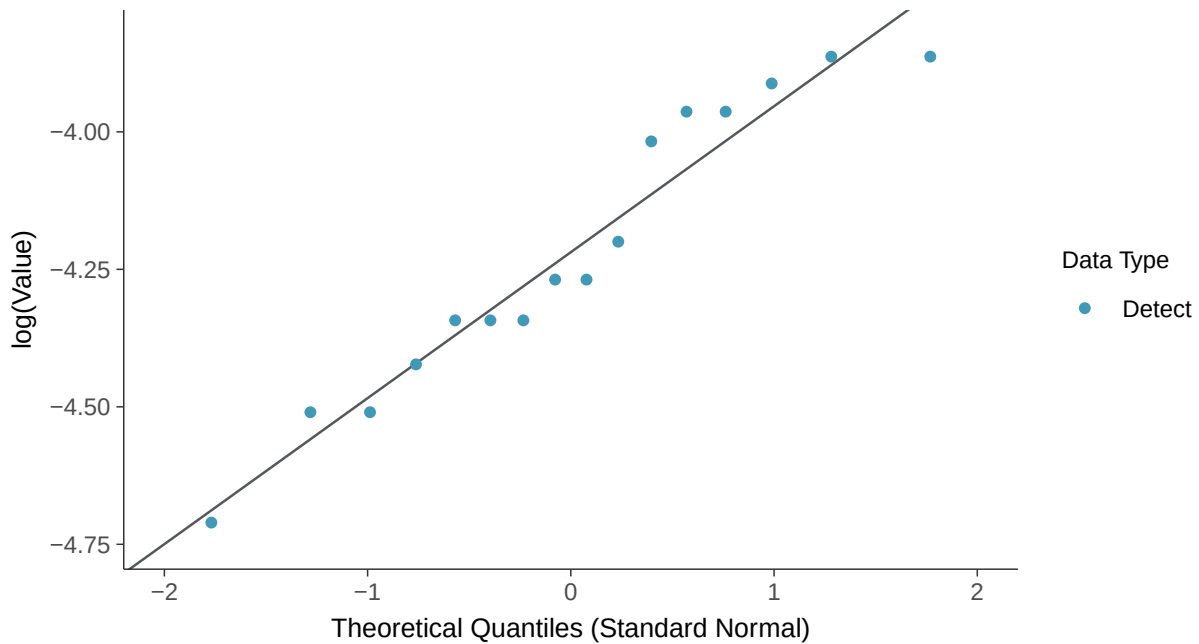
Normal Q-Q plot

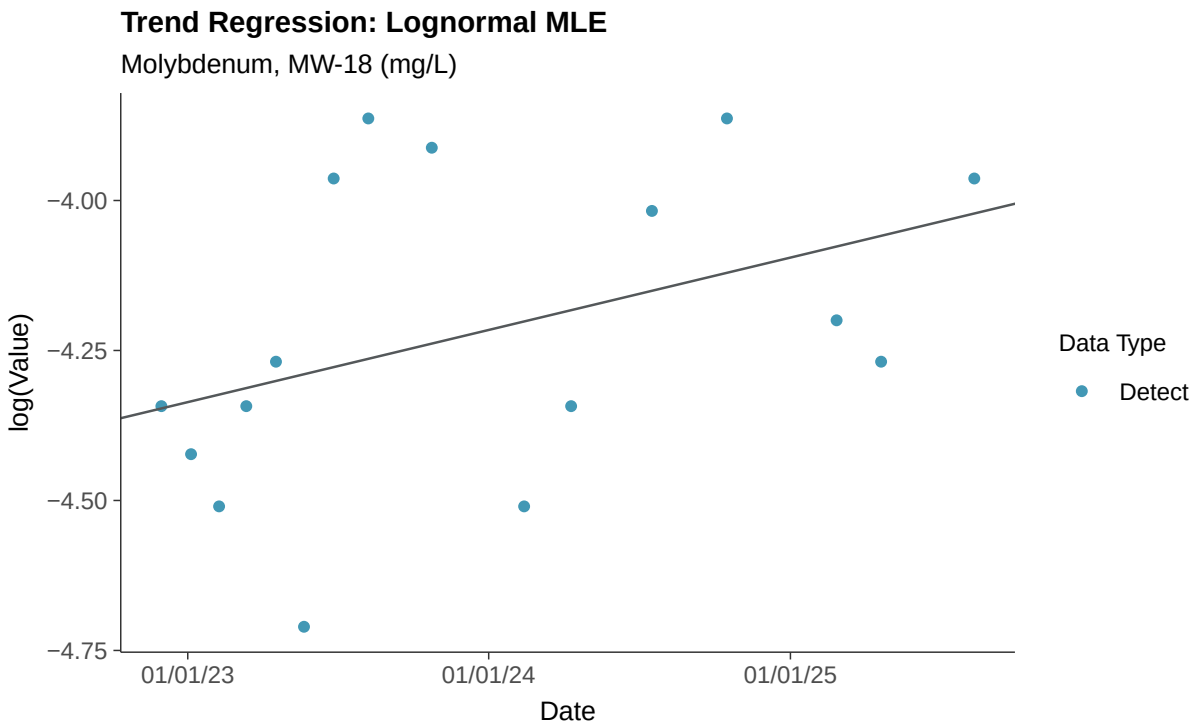
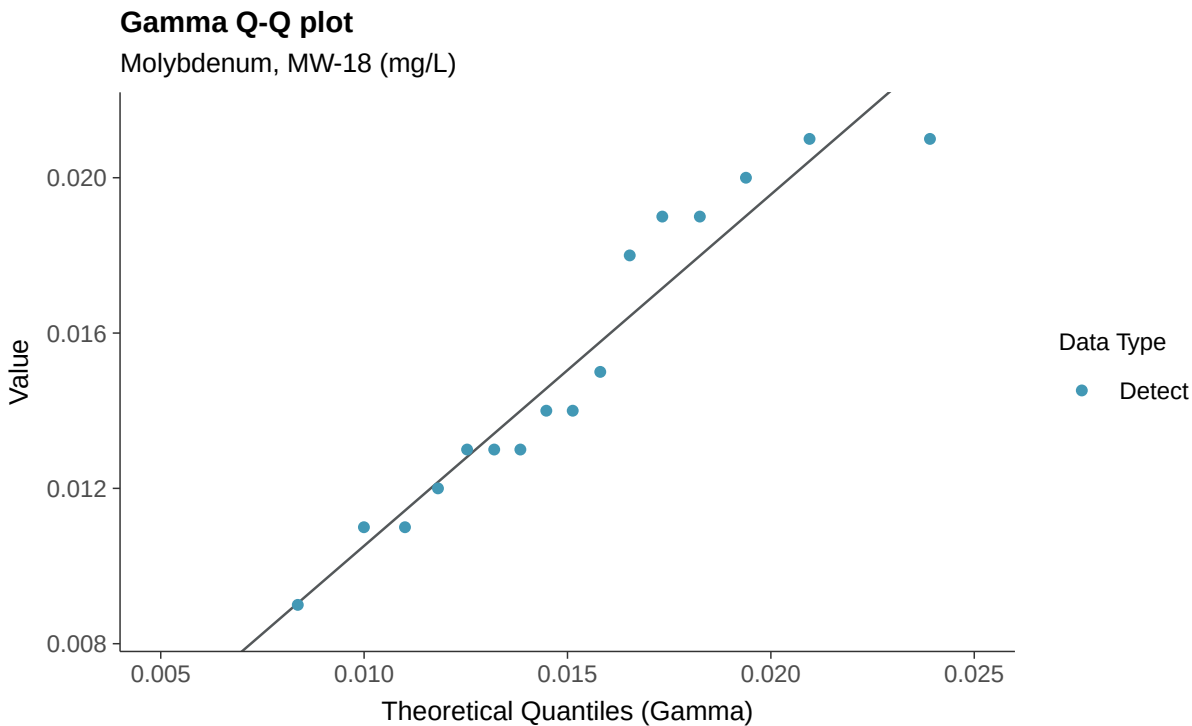
Molybdenum, MW-18 (mg/L)

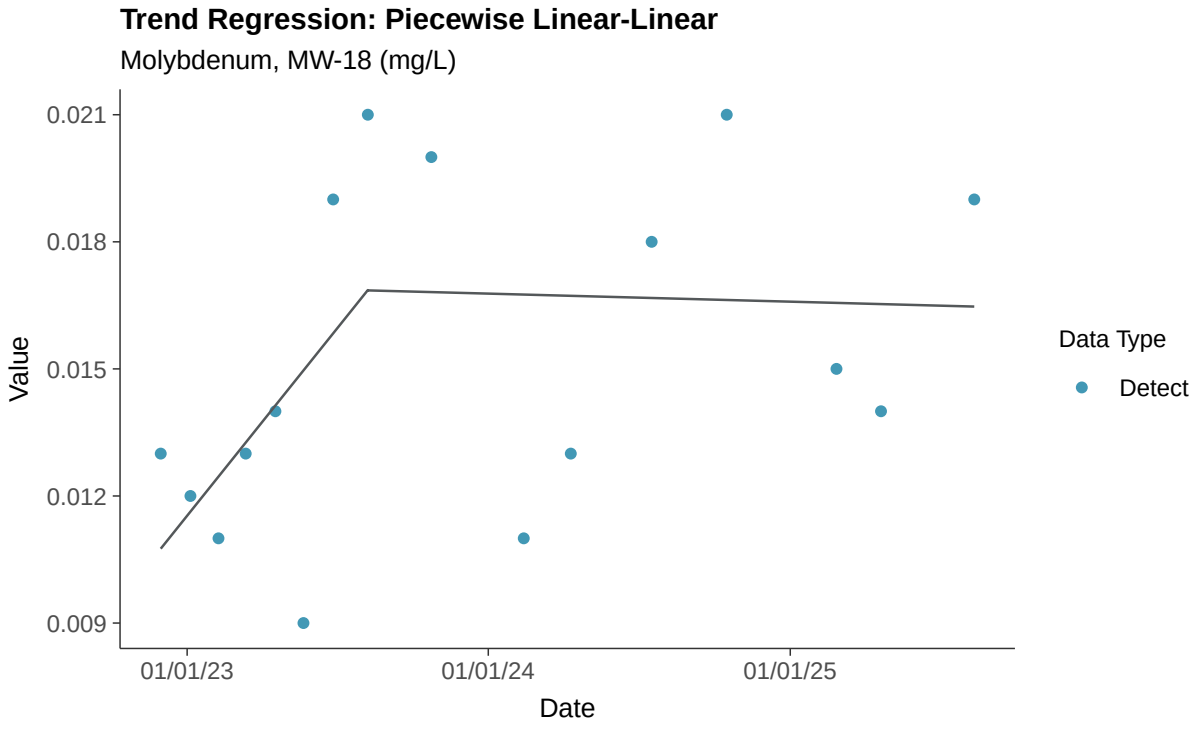


Lognormal Q-Q plot

Molybdenum, MW-18 (mg/L)





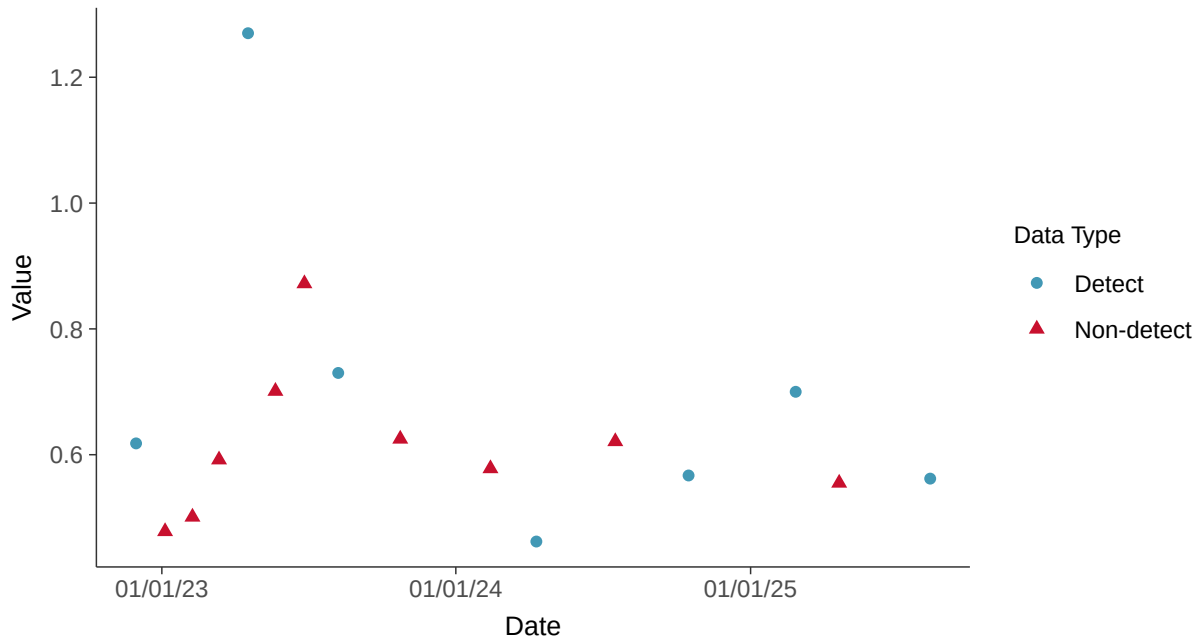


Appendix IV: Radium 226 and 228, MW-18

ID: 28_1_4_121

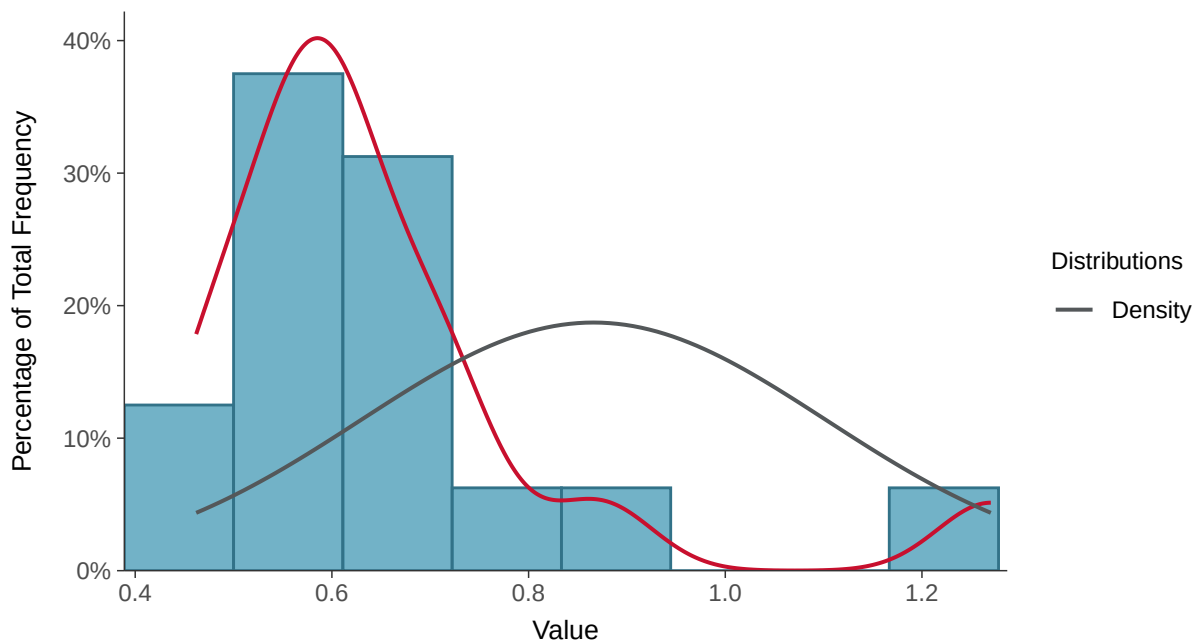
Scatter Plot

Radium 226 and 228, MW-18 (pCi/L)



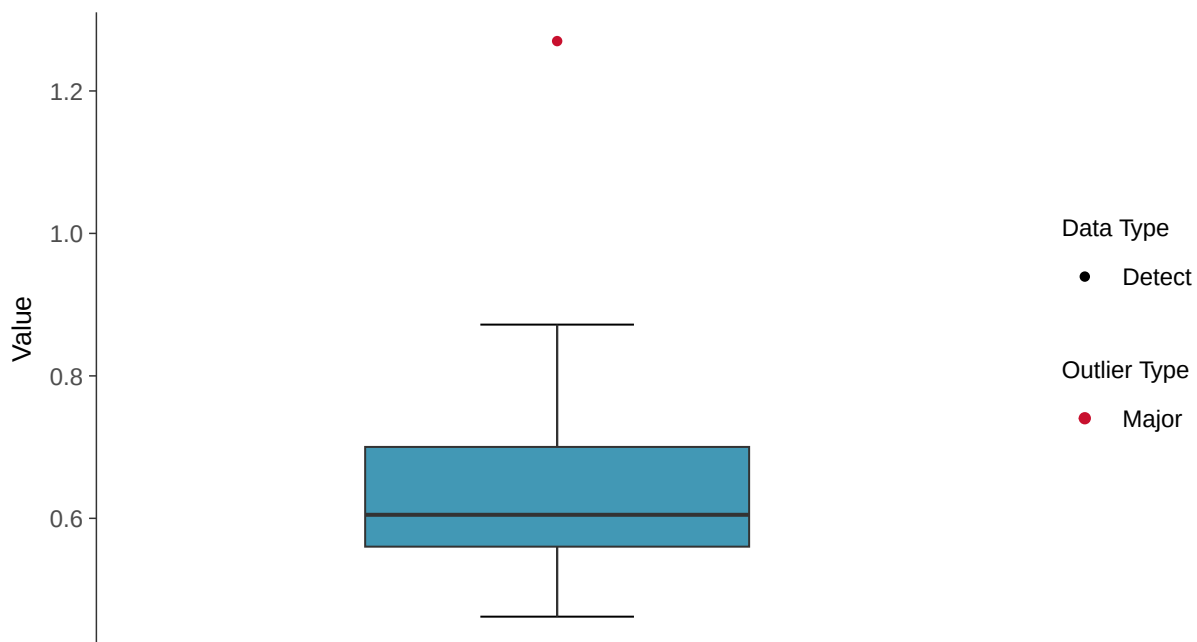
Histogram

Radium 226 and 228, MW-18 (pCi/L)



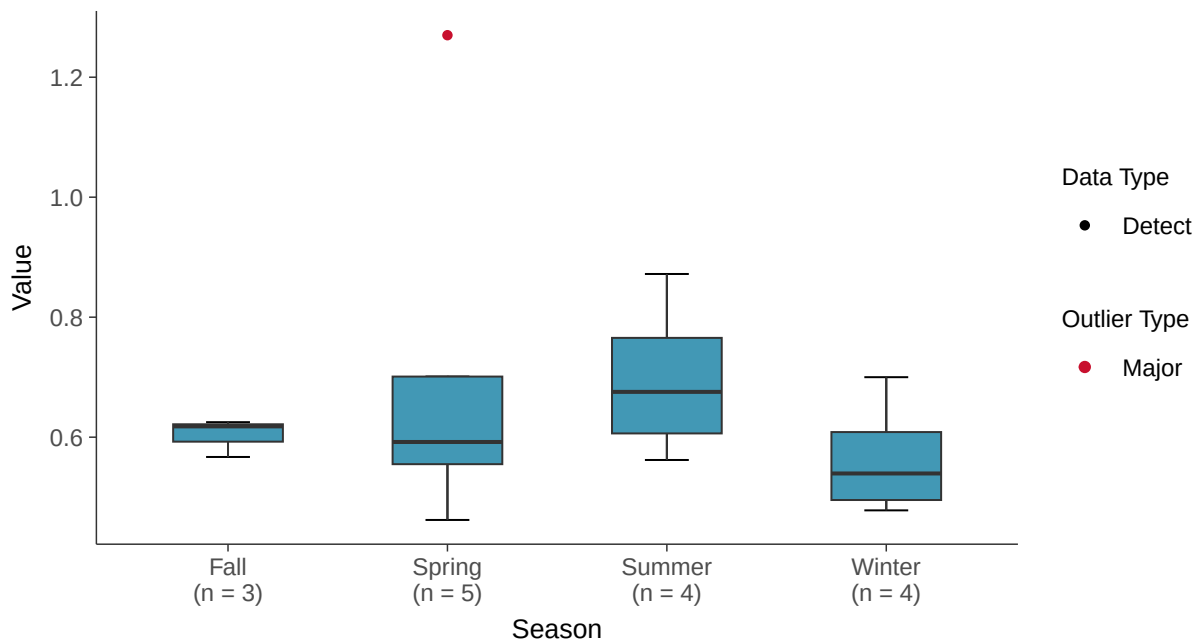
Boxplot

Radium 226 and 228, MW-18 (pCi/L)



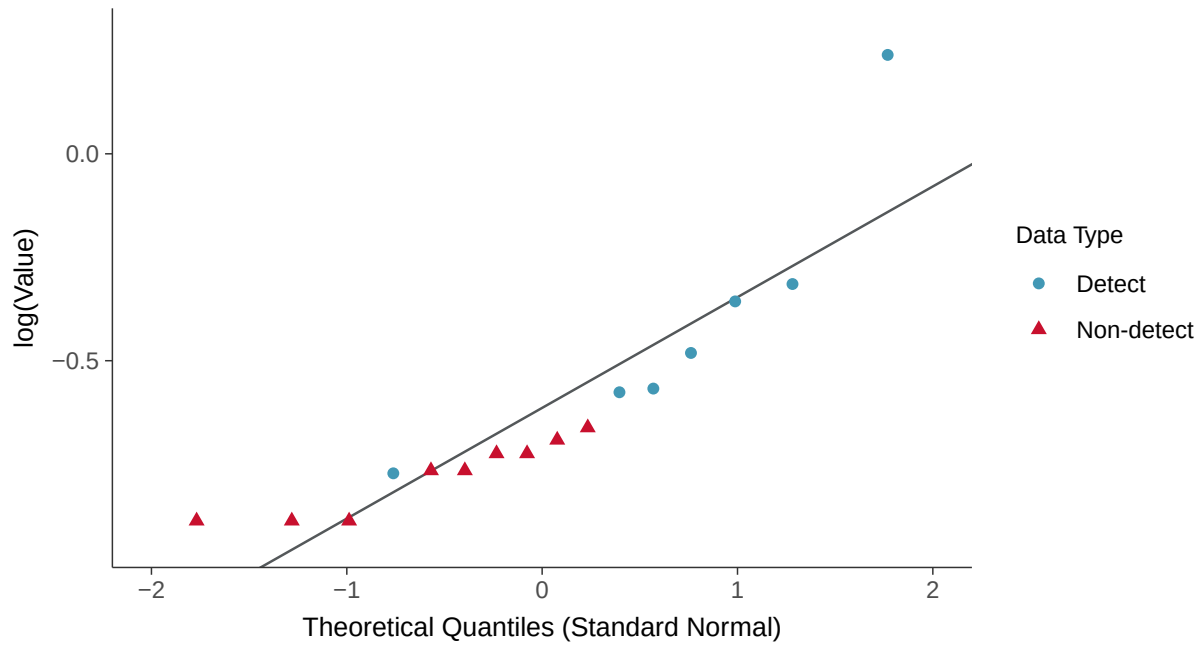
Boxplot by Season

Radium 226 and 228, MW-18 (pCi/L)



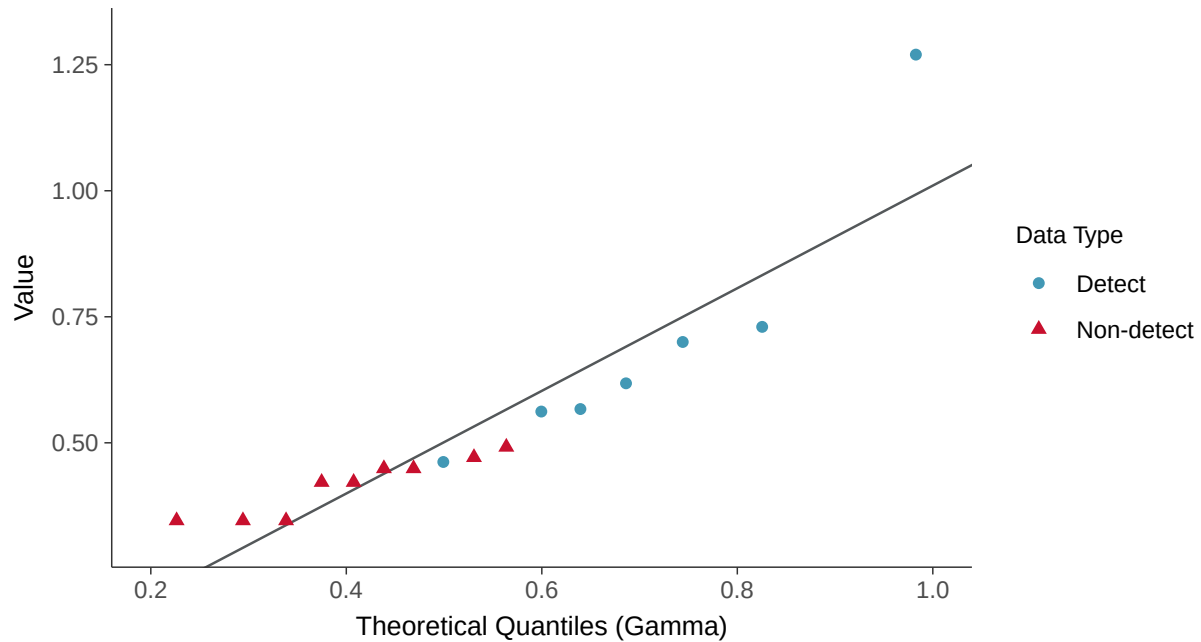
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-18 (pCi/L)



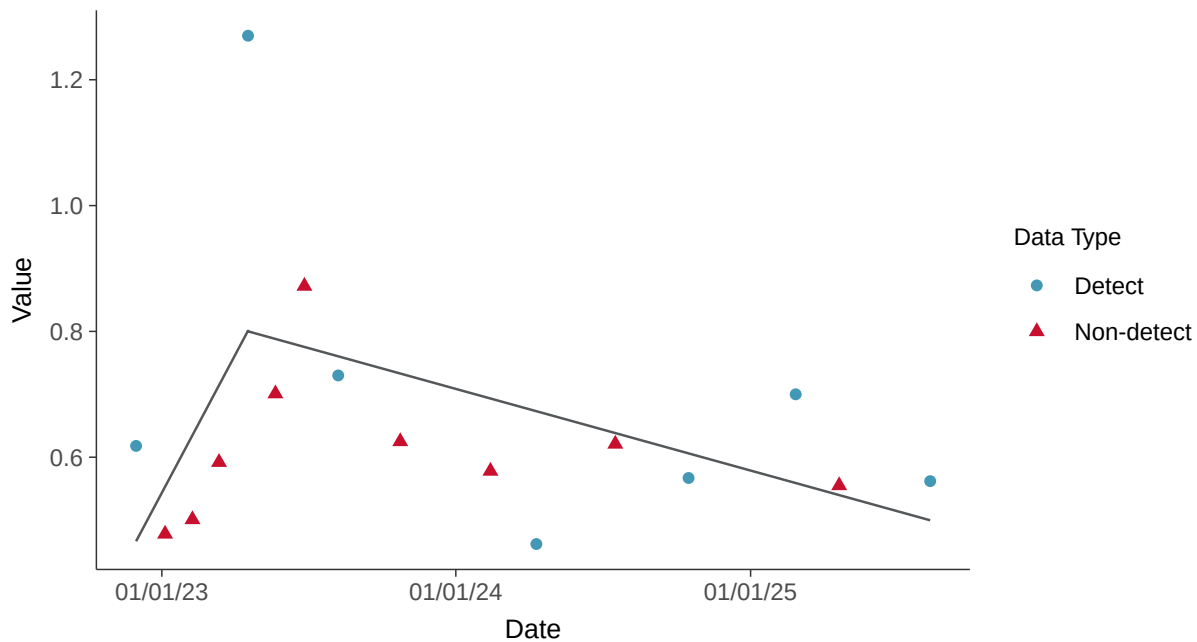
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-18 (pCi/L)



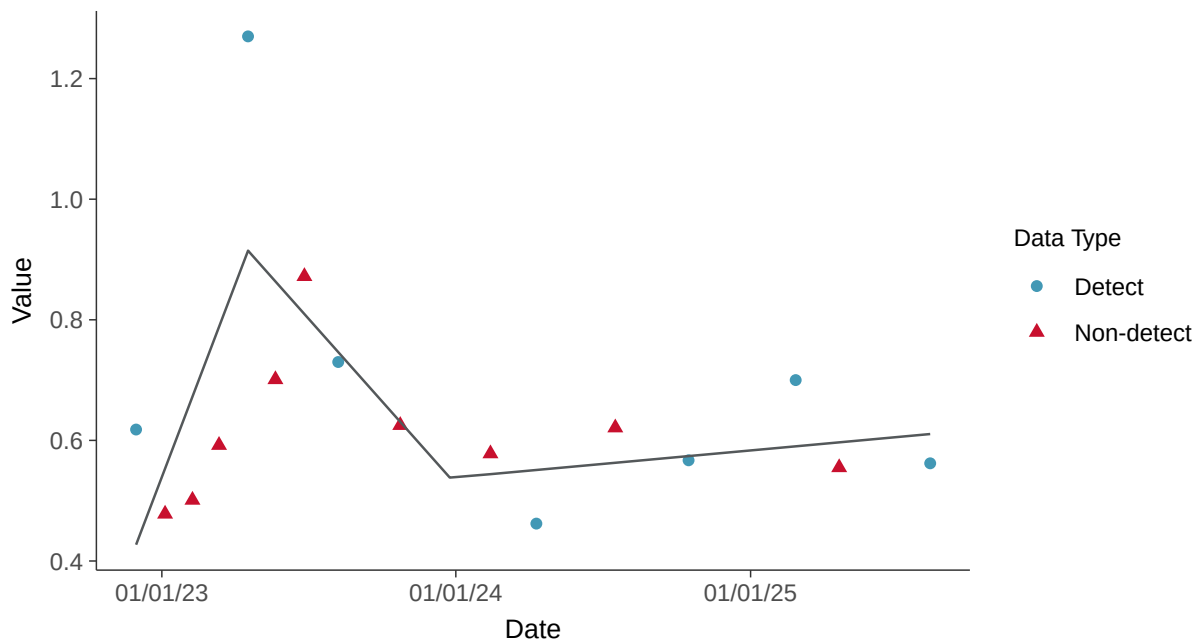
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-18 (pCi/L)



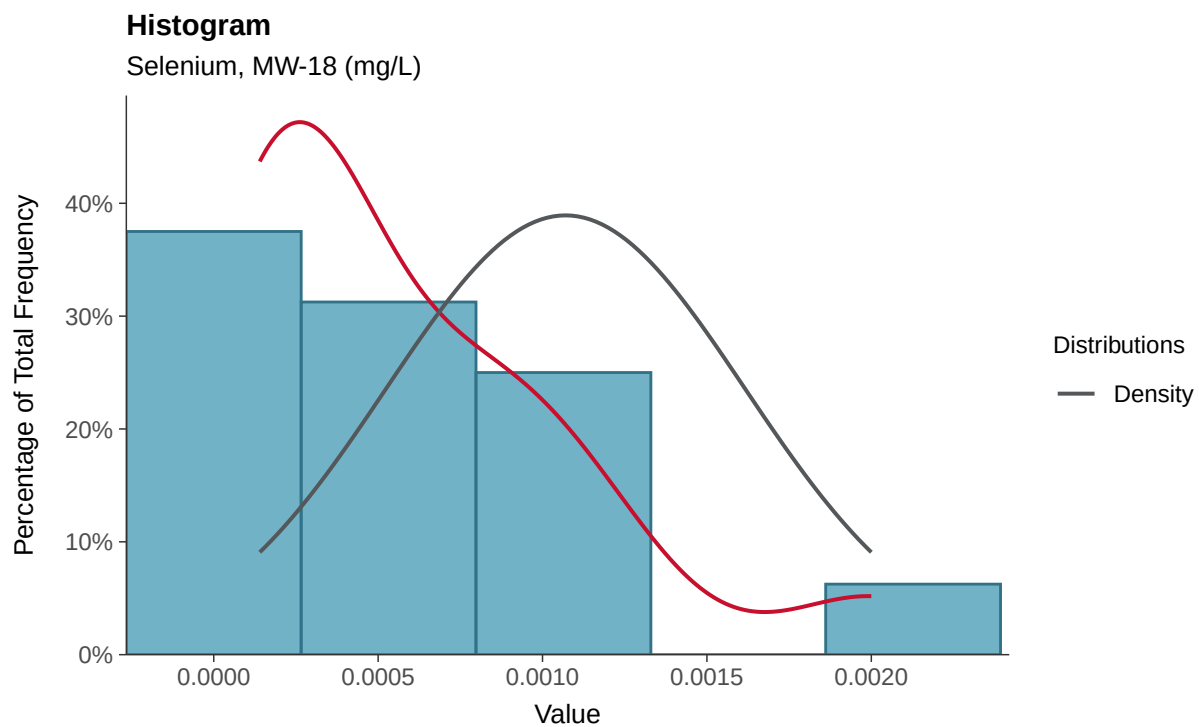
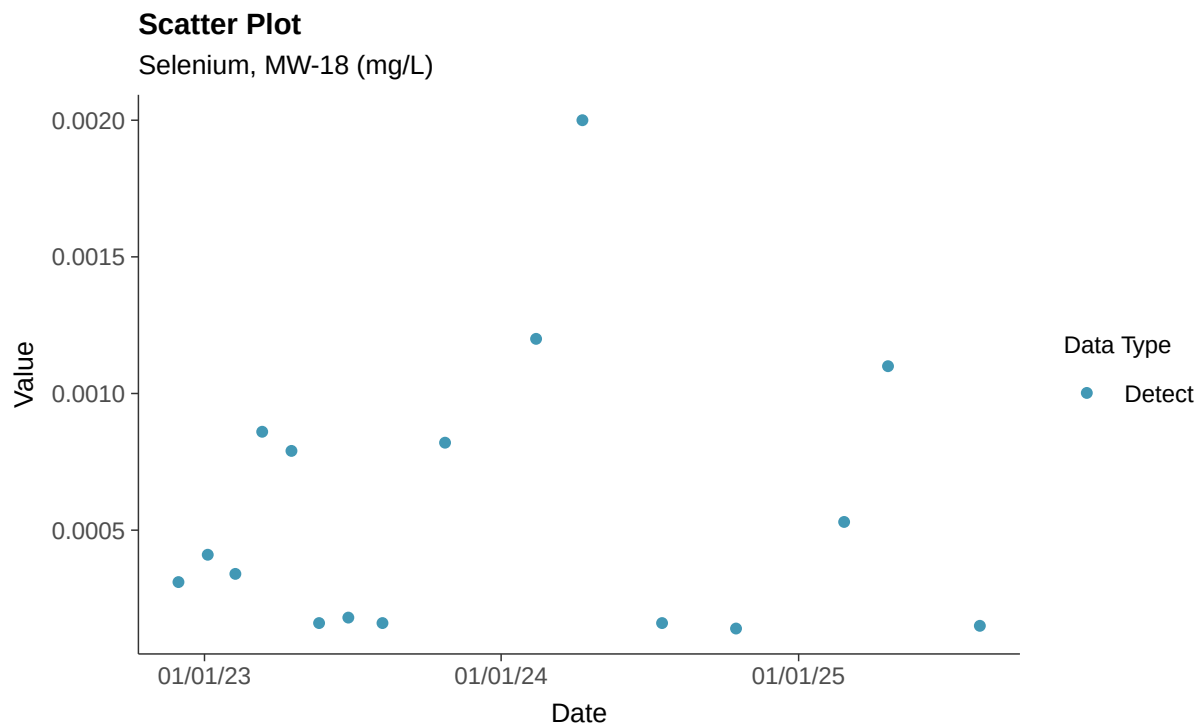
Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-18 (pCi/L)



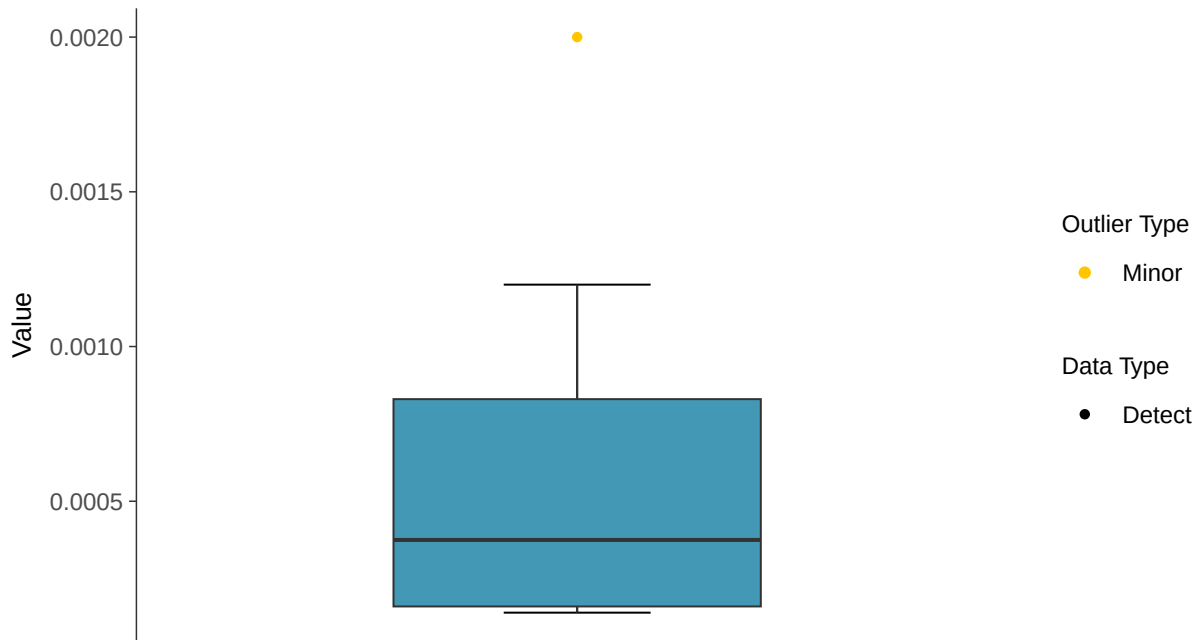
Appendix IV: Selenium, MW-18

ID: 28_1_4_122



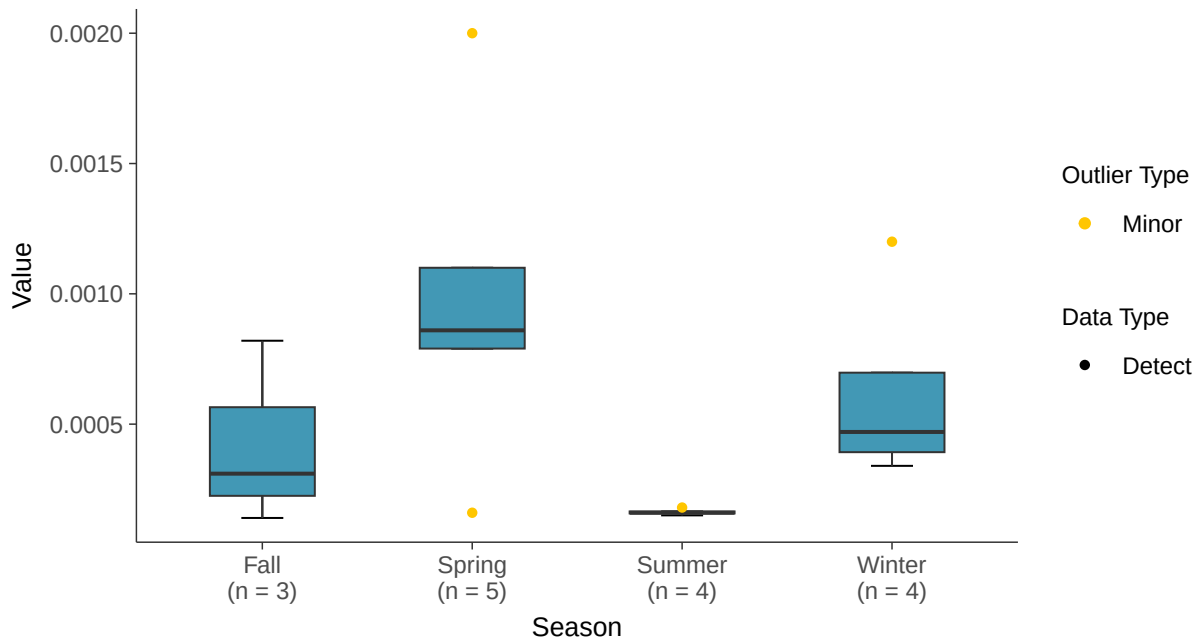
Boxplot

Selenium, MW-18 (mg/L)



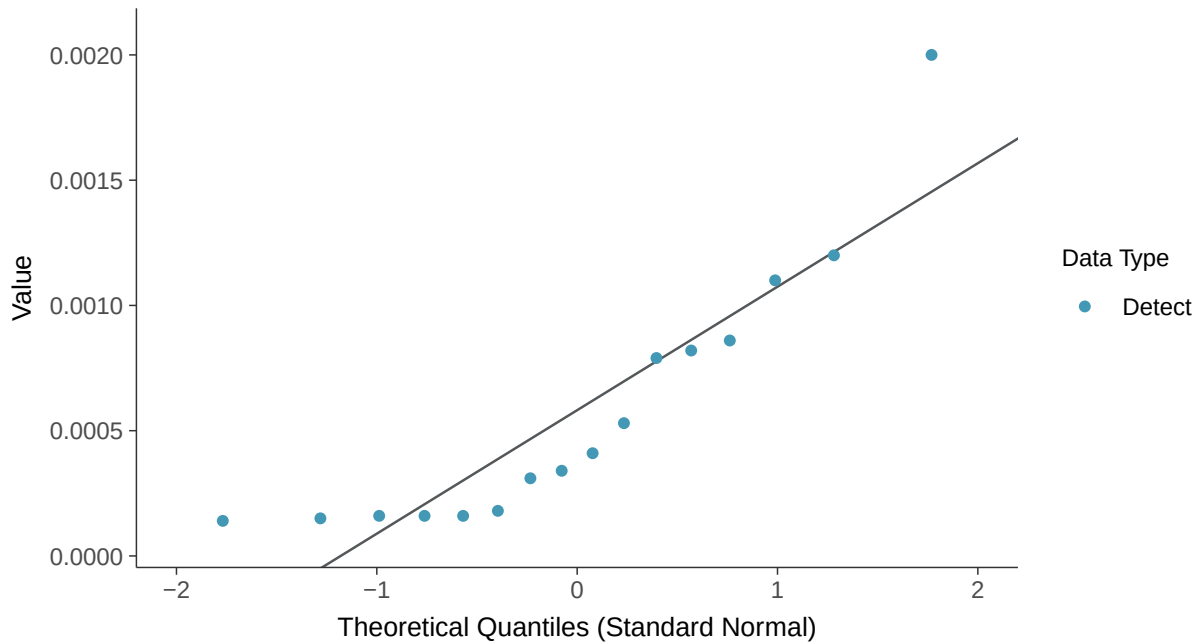
Boxplot by Season

Selenium, MW-18 (mg/L)



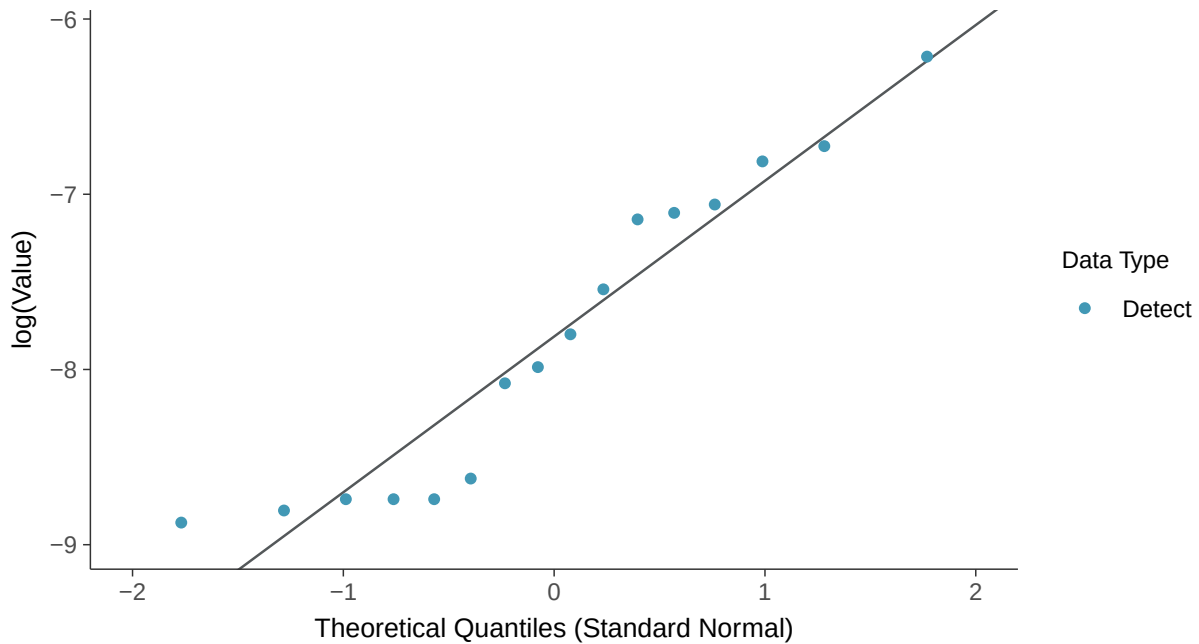
Normal Q-Q plot

Selenium, MW-18 (mg/L)



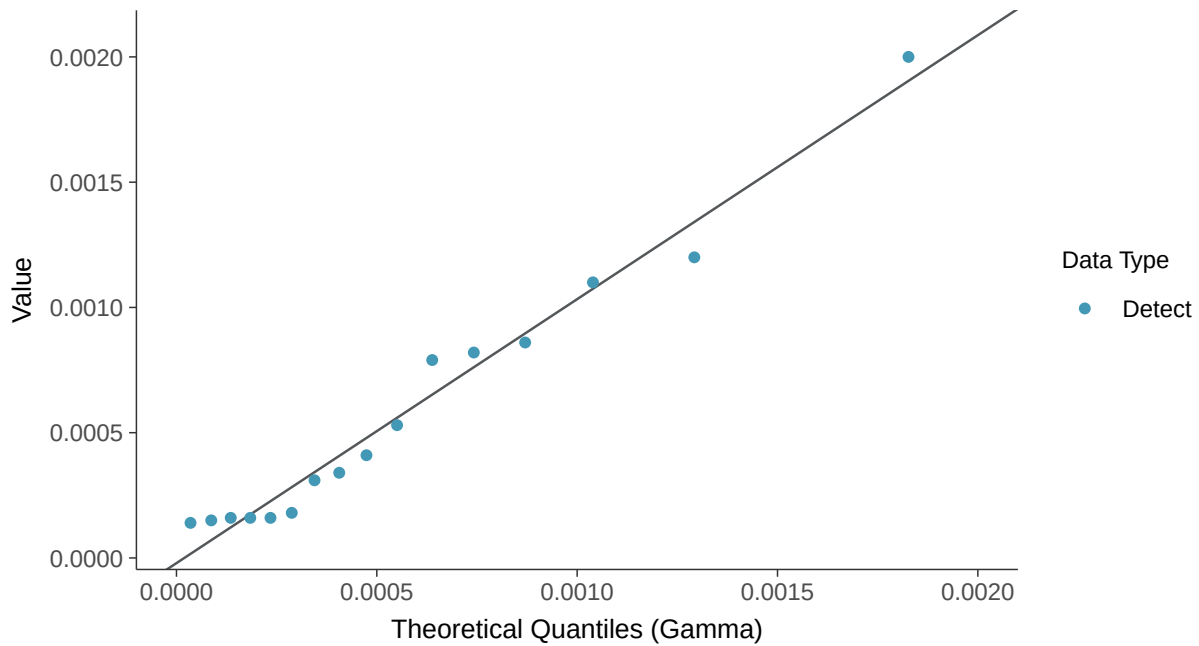
Lognormal Q-Q plot

Selenium, MW-18 (mg/L)



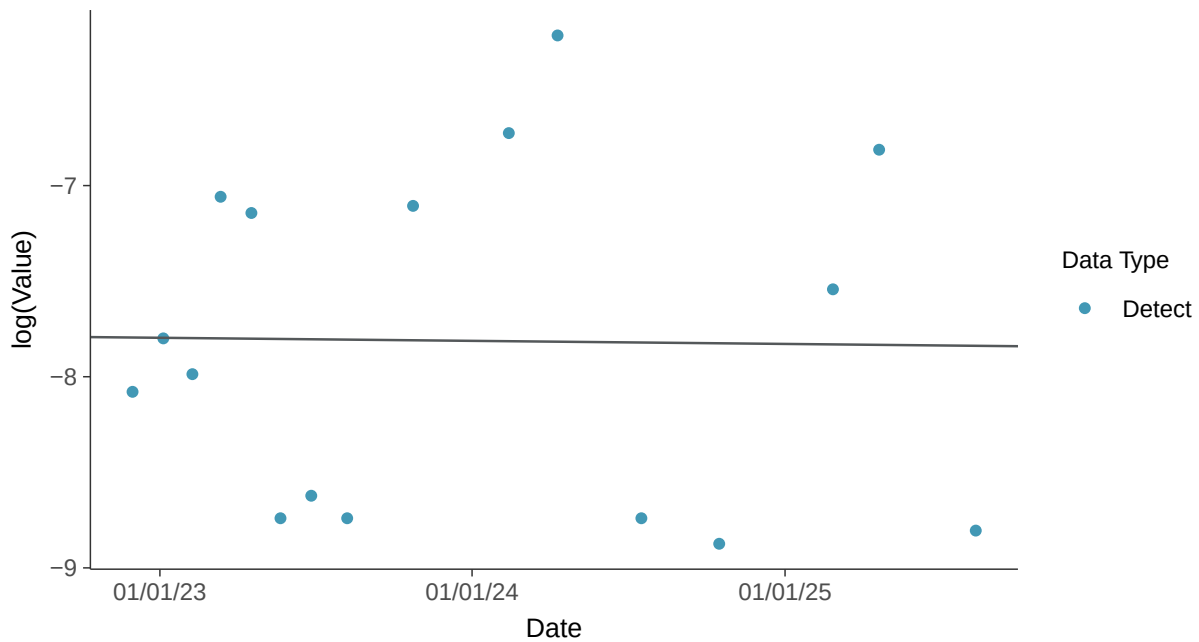
Gamma Q-Q plot

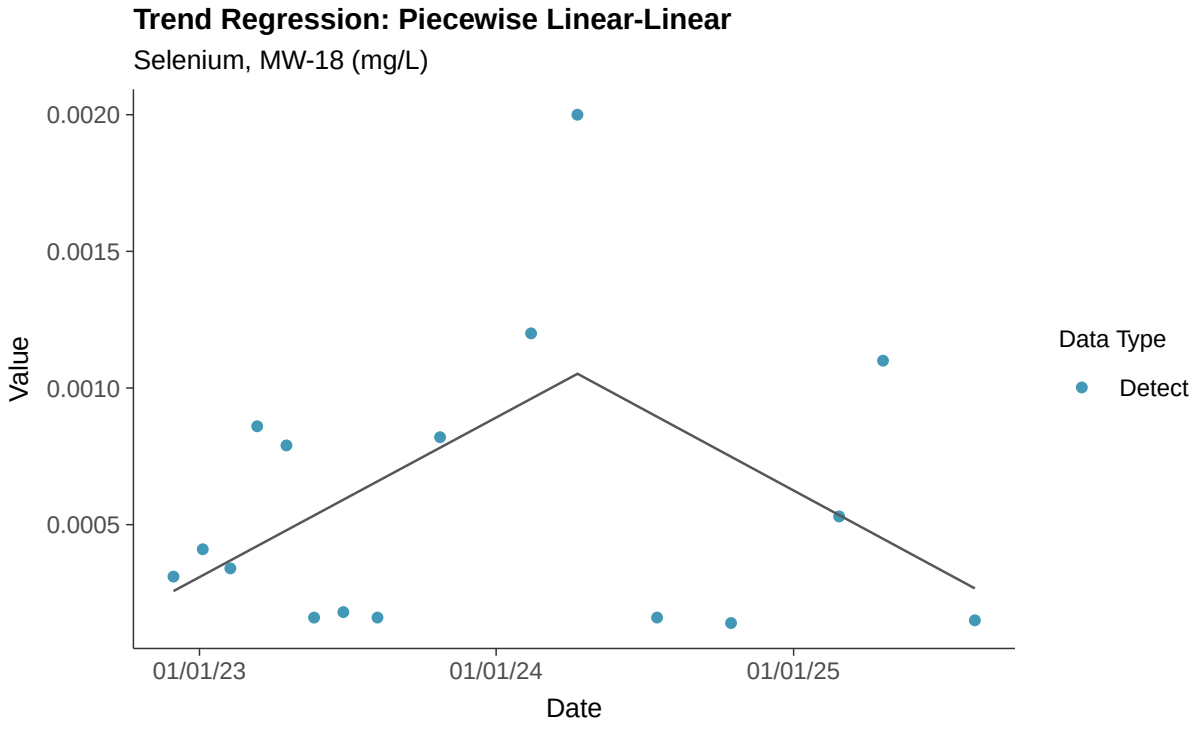
Selenium, MW-18 (mg/L)

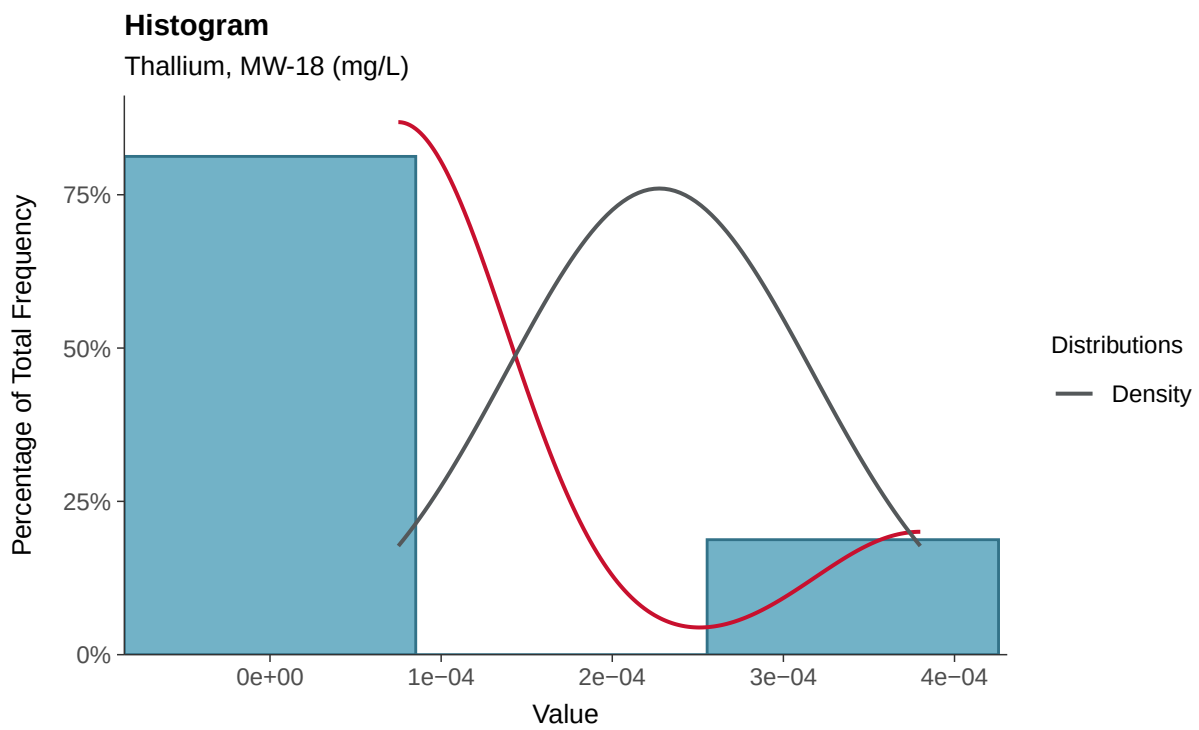


Trend Regression: Lognormal MLE

Selenium, MW-18 (mg/L)

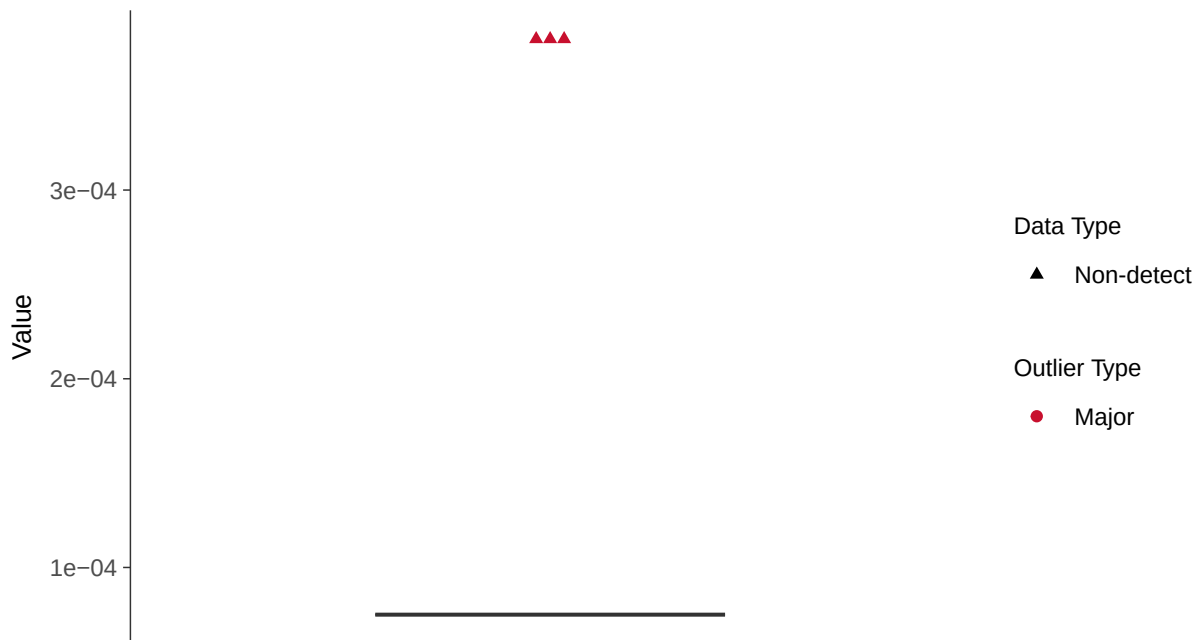






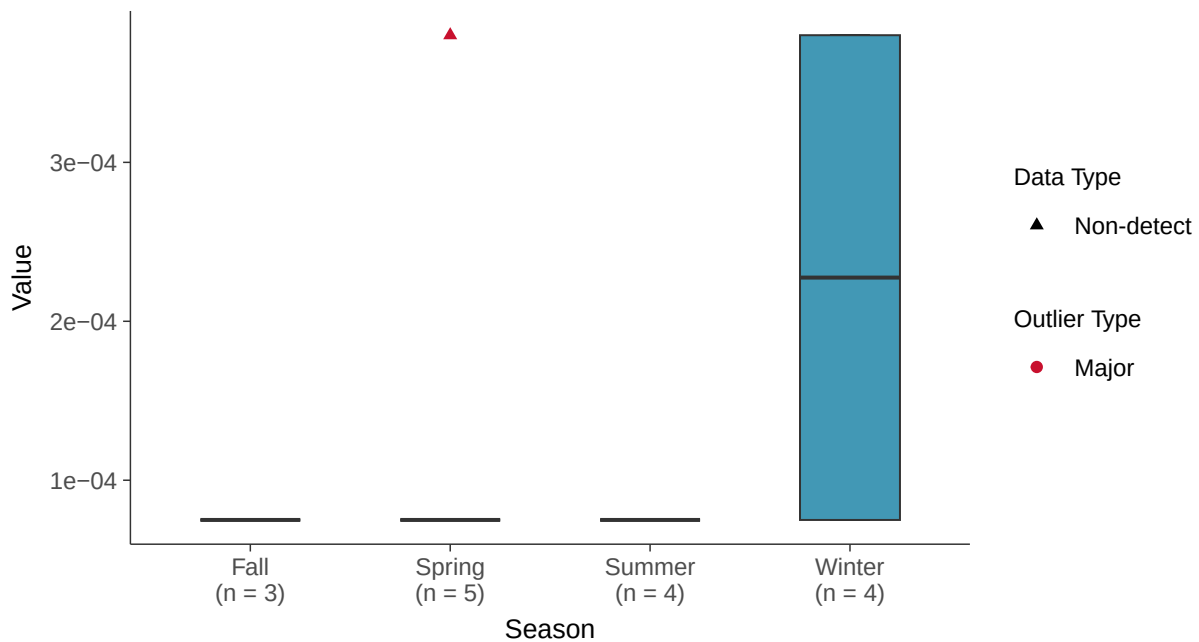
Boxplot

Thallium, MW-18 (mg/L)

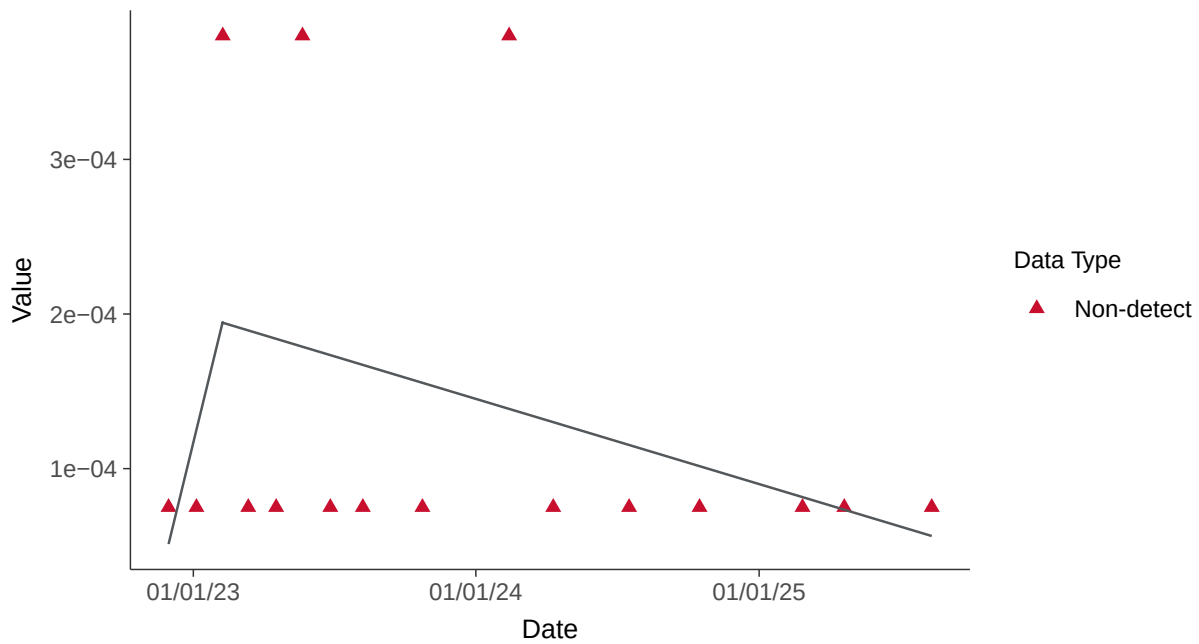


Boxplot by Season

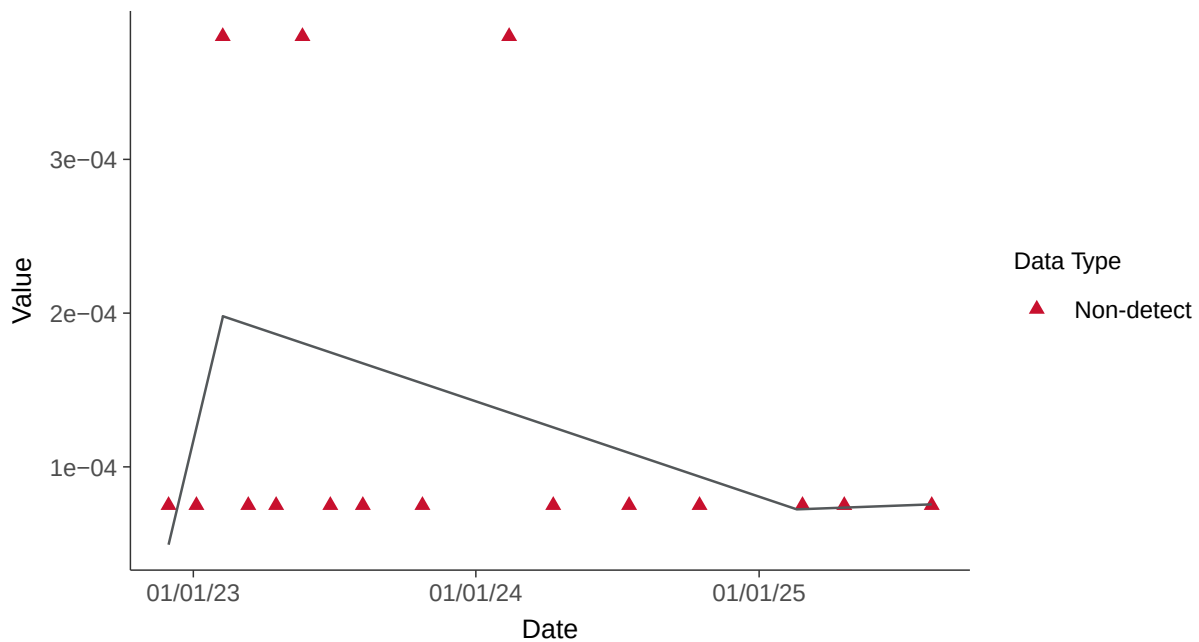
Thallium, MW-18 (mg/L)



Thallium, MW-18 (mg/L)

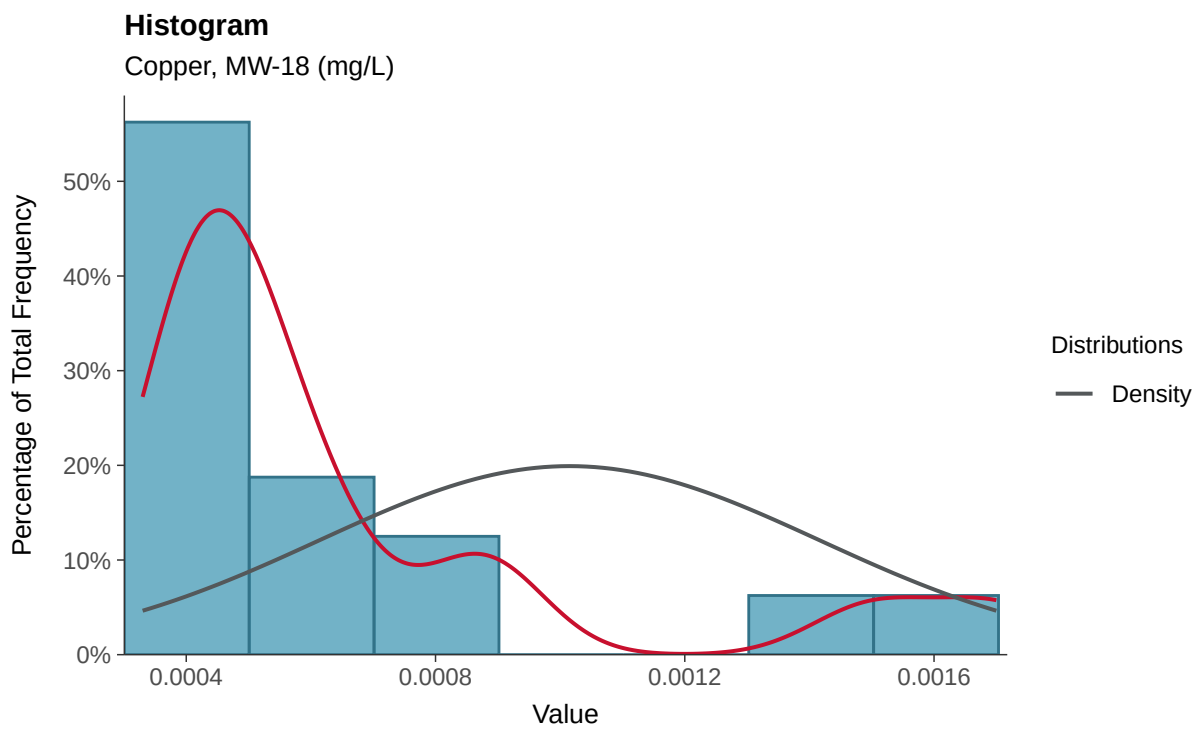
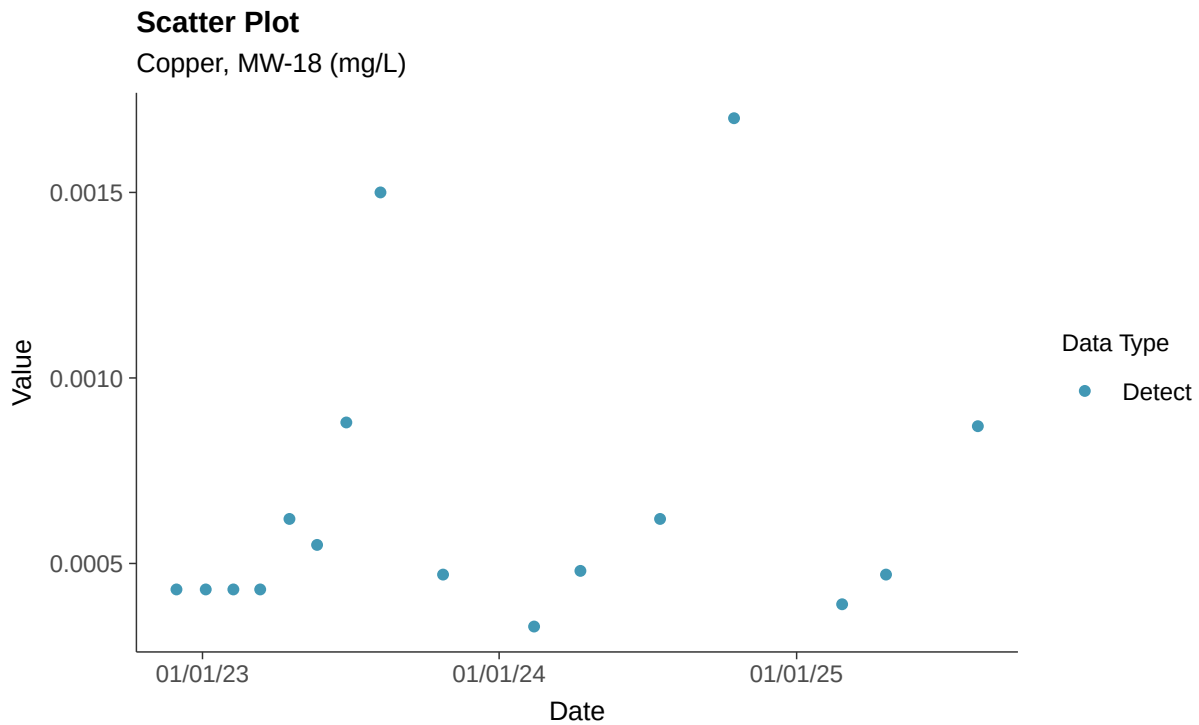


Thallium, MW-18 (mg/L)



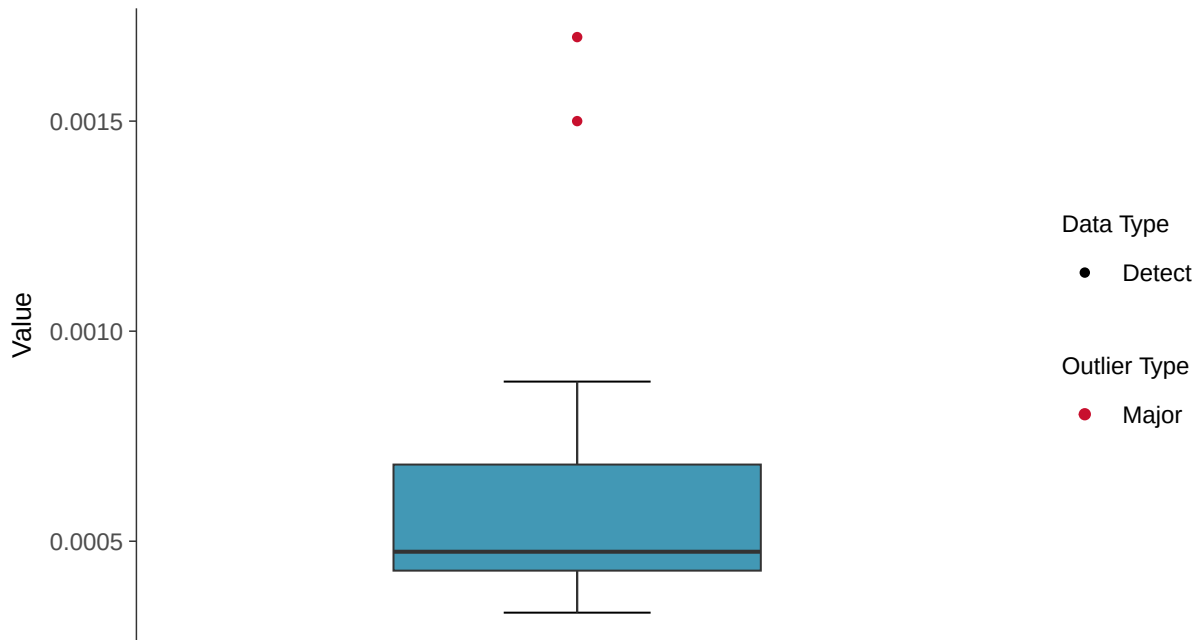
Part 115: Copper, MW-18

ID: 28_1_5_111



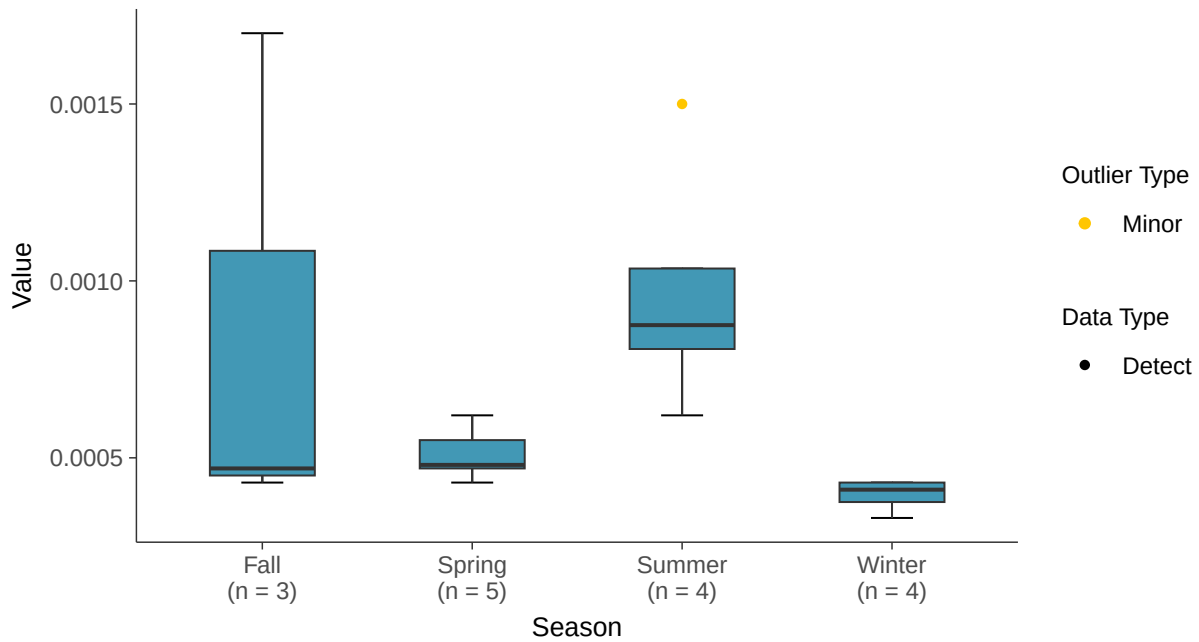
Boxplot

Copper, MW-18 (mg/L)



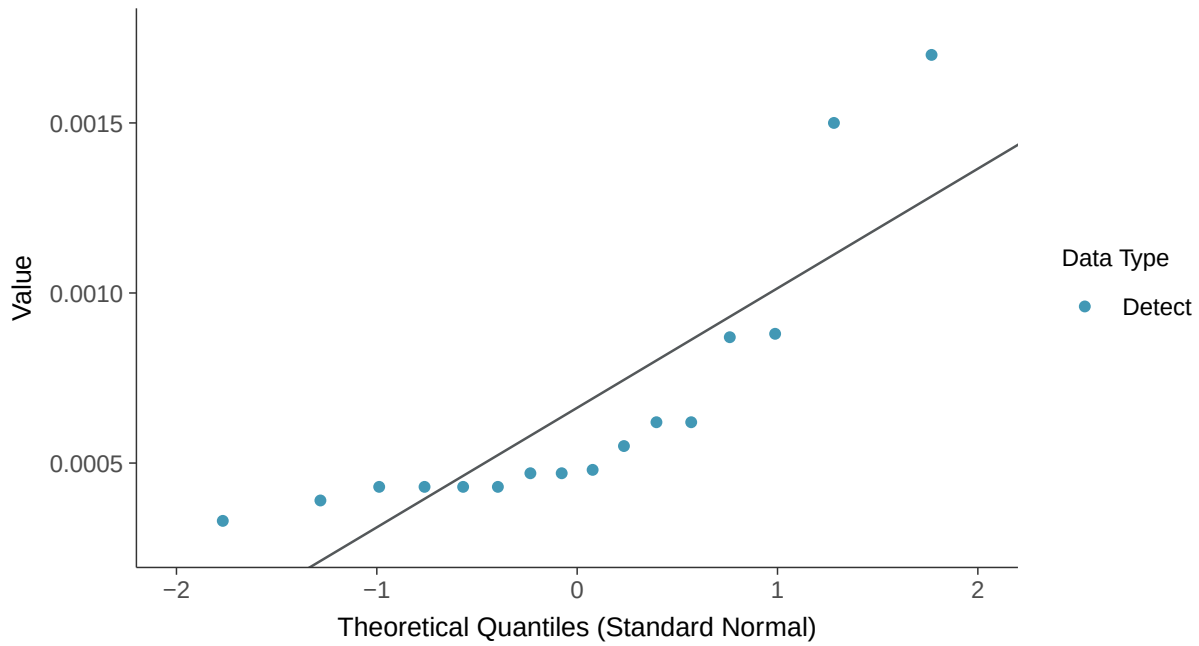
Boxplot by Season

Copper, MW-18 (mg/L)



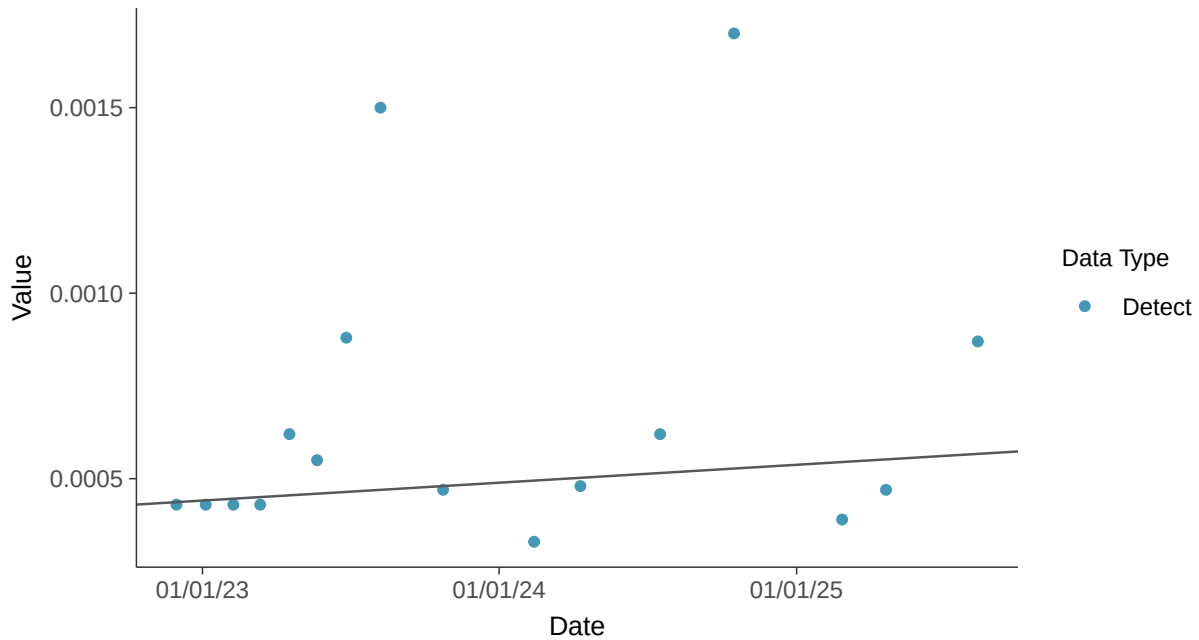
Normal Q-Q plot

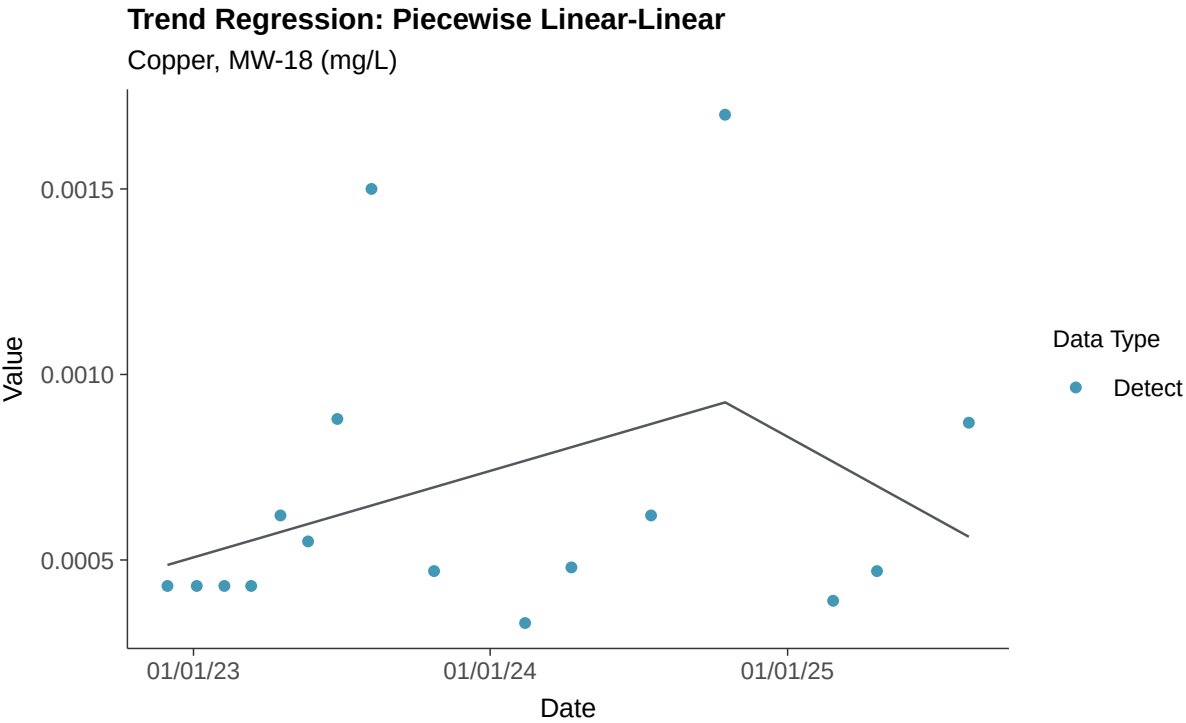
Copper, MW-18 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

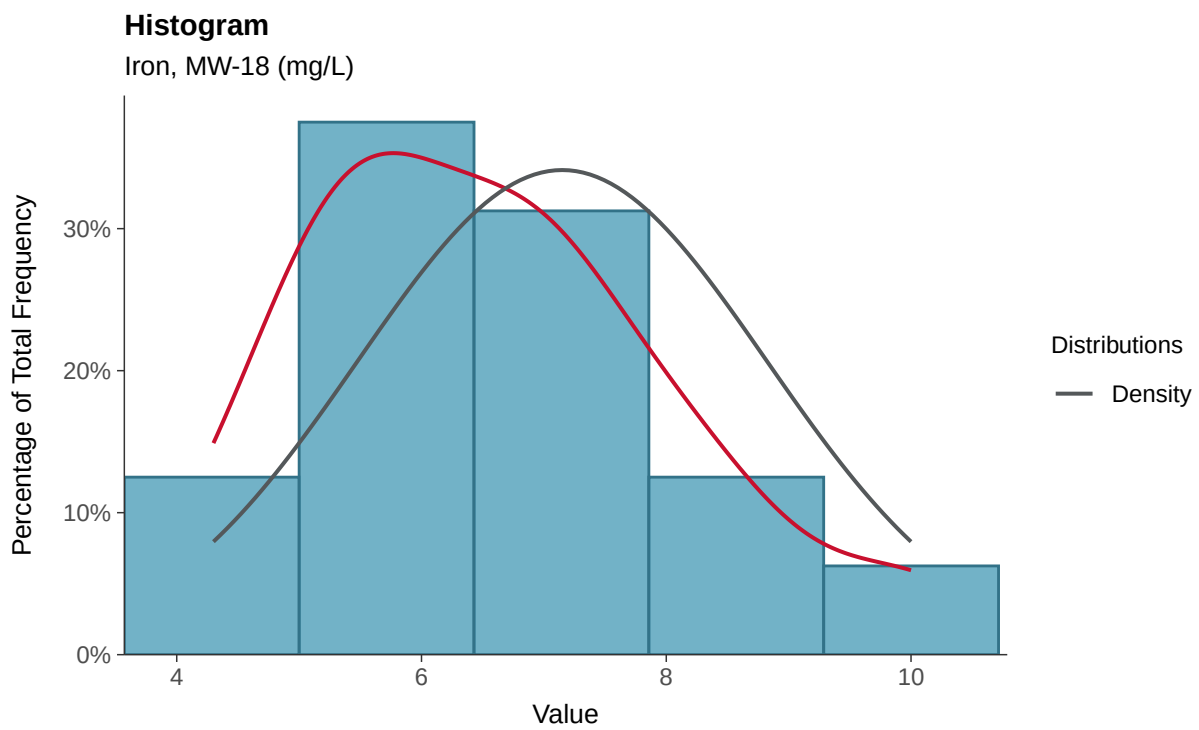
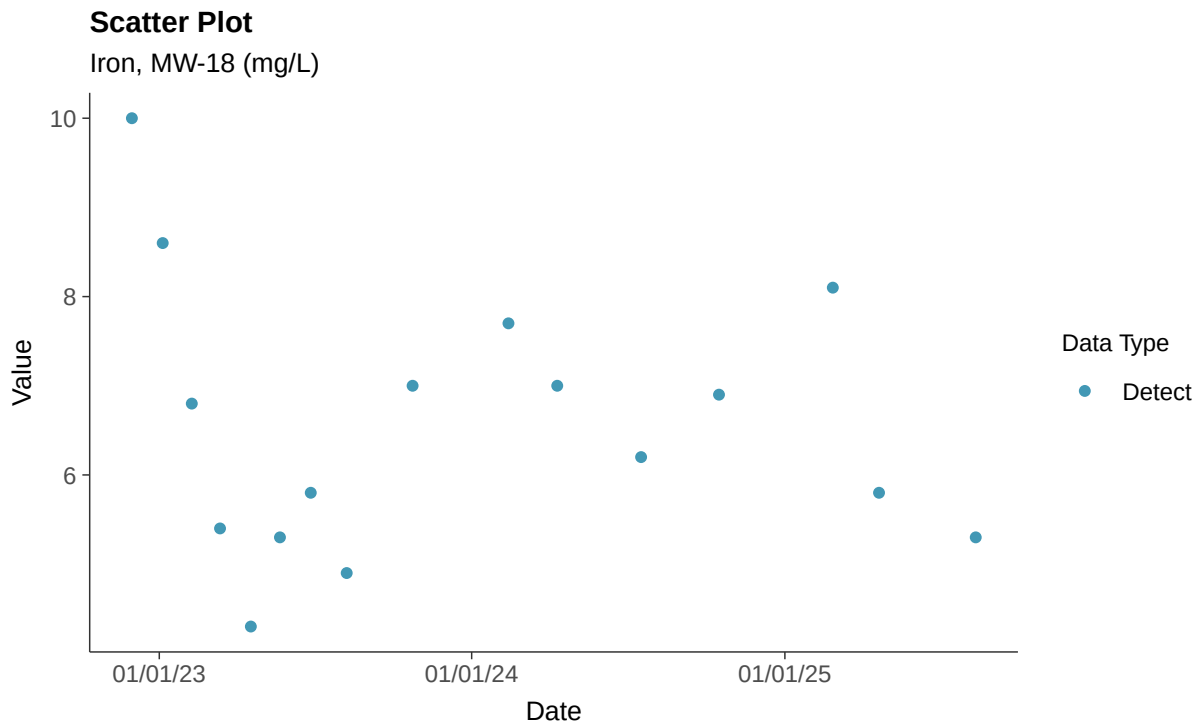
Copper, MW-18 (mg/L)





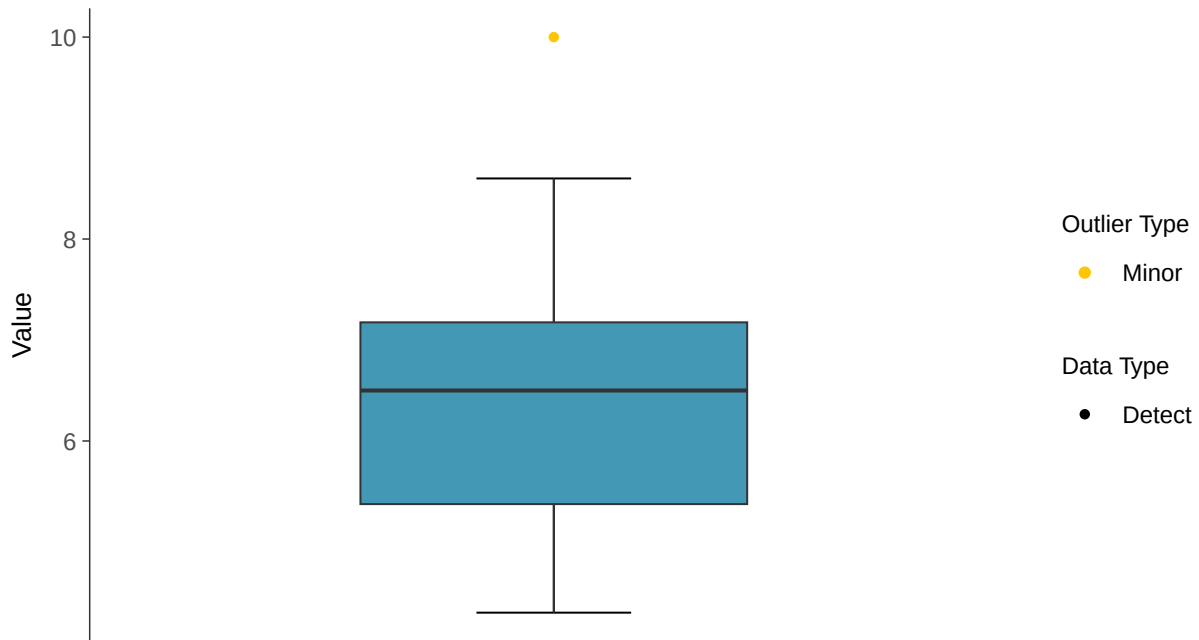
Part 115: Iron, MW-18

ID: 28_1_5_114



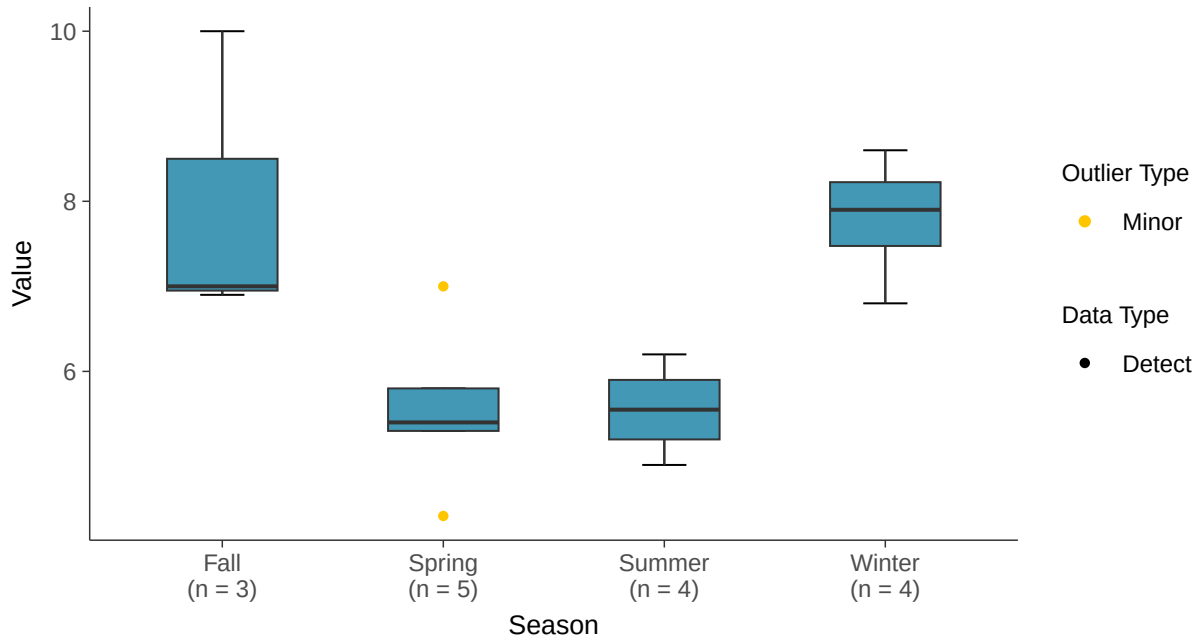
Boxplot

Iron, MW-18 (mg/L)



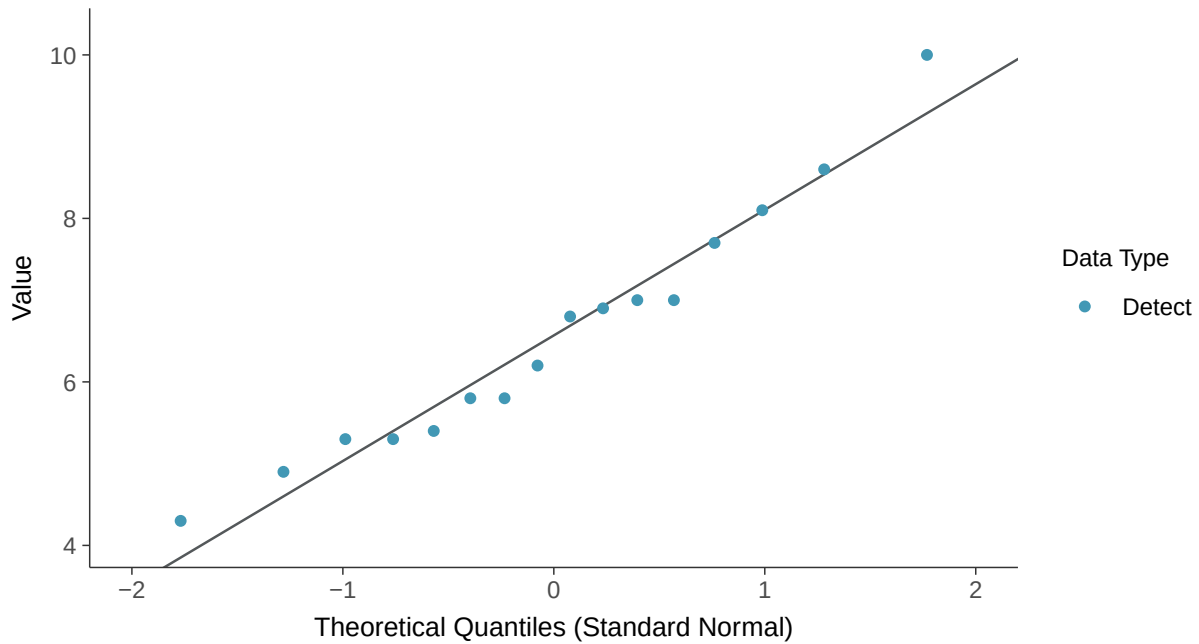
Boxplot by Season

Iron, MW-18 (mg/L)



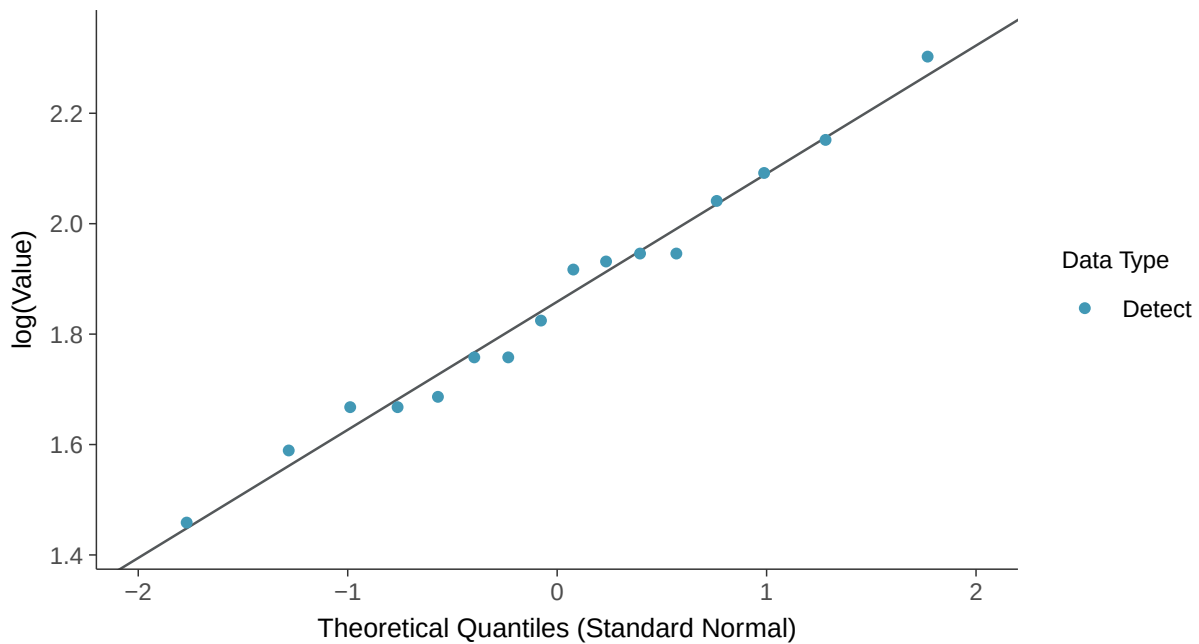
Normal Q-Q plot

Iron, MW-18 (mg/L)



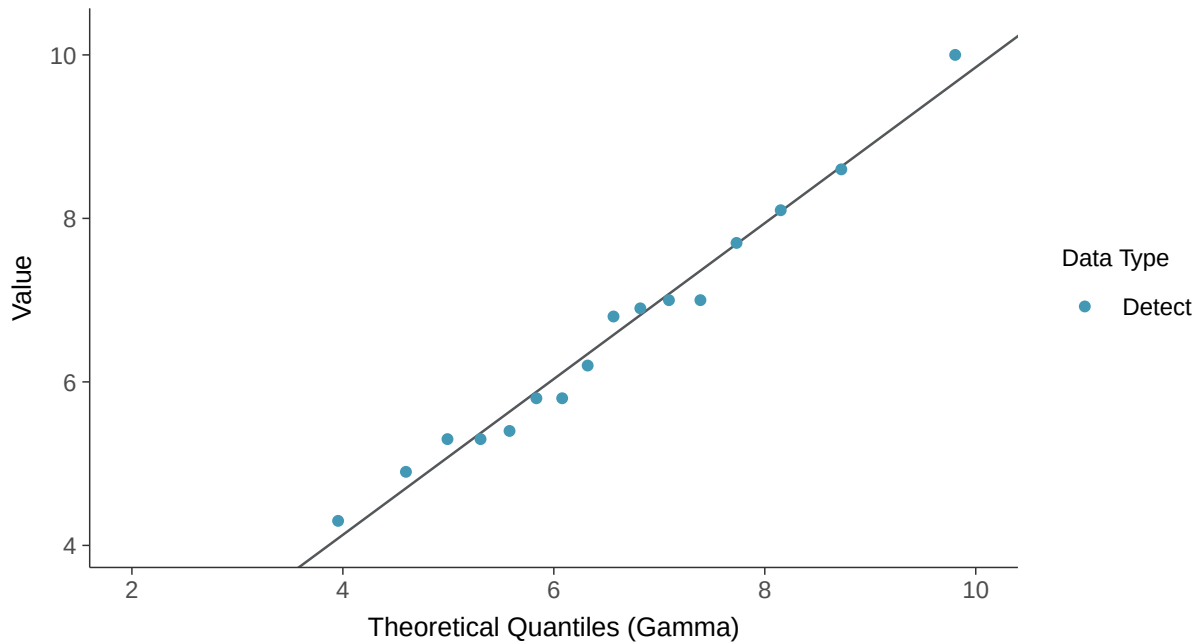
Lognormal Q-Q plot

Iron, MW-18 (mg/L)



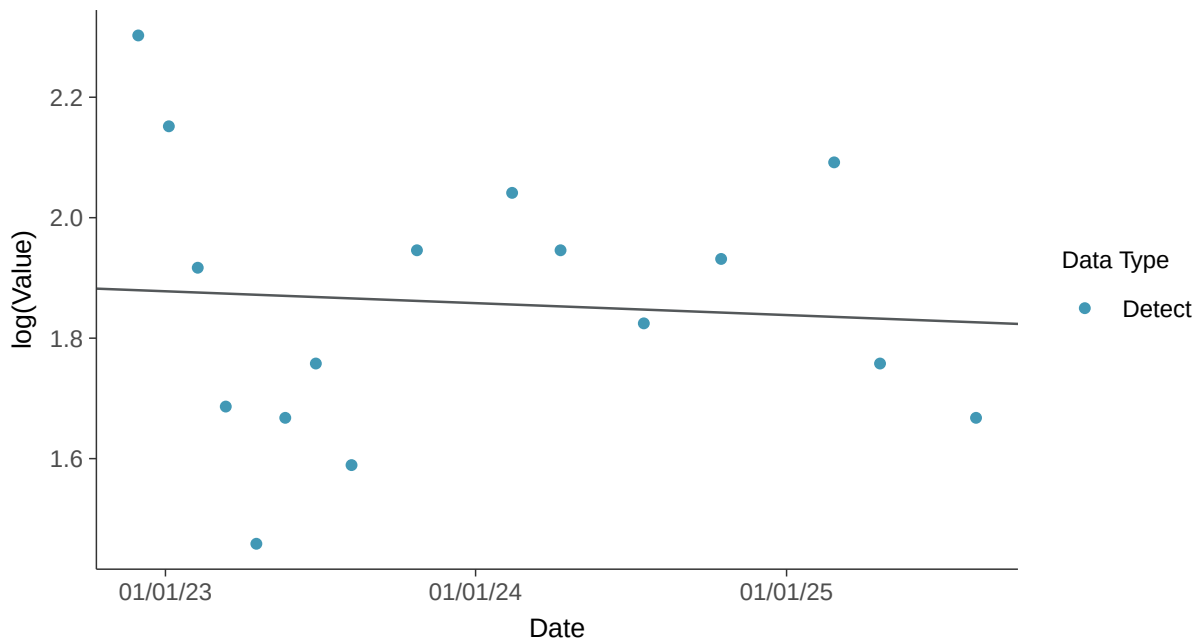
Gamma Q-Q plot

Iron, MW-18 (mg/L)



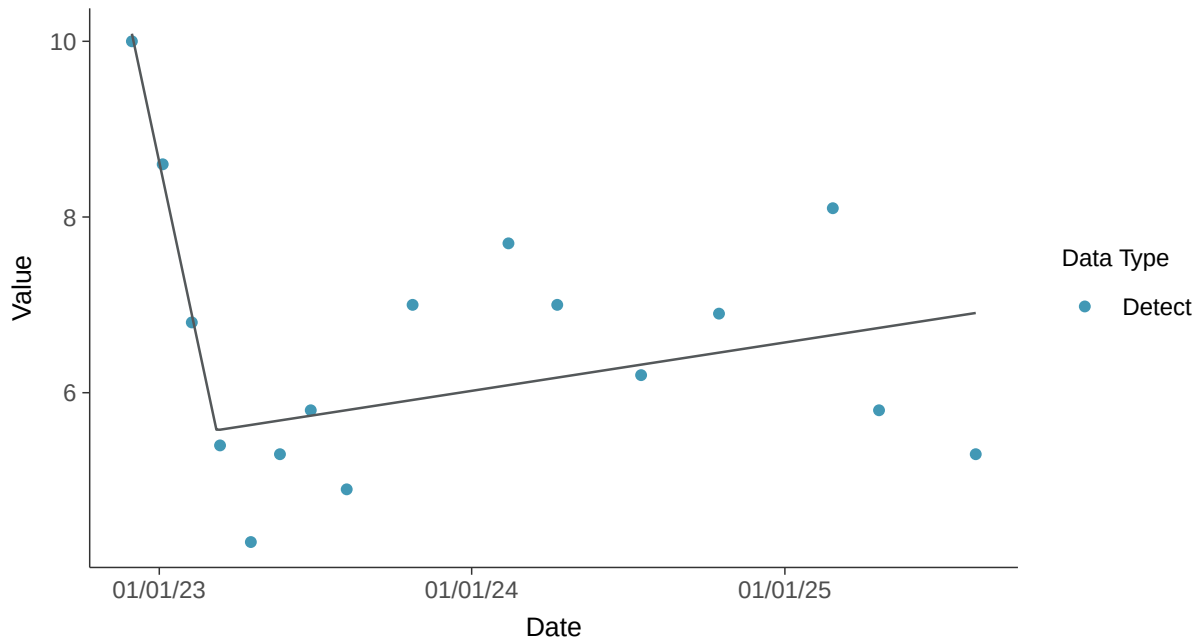
Trend Regression: Lognormal MLE

Iron, MW-18 (mg/L)



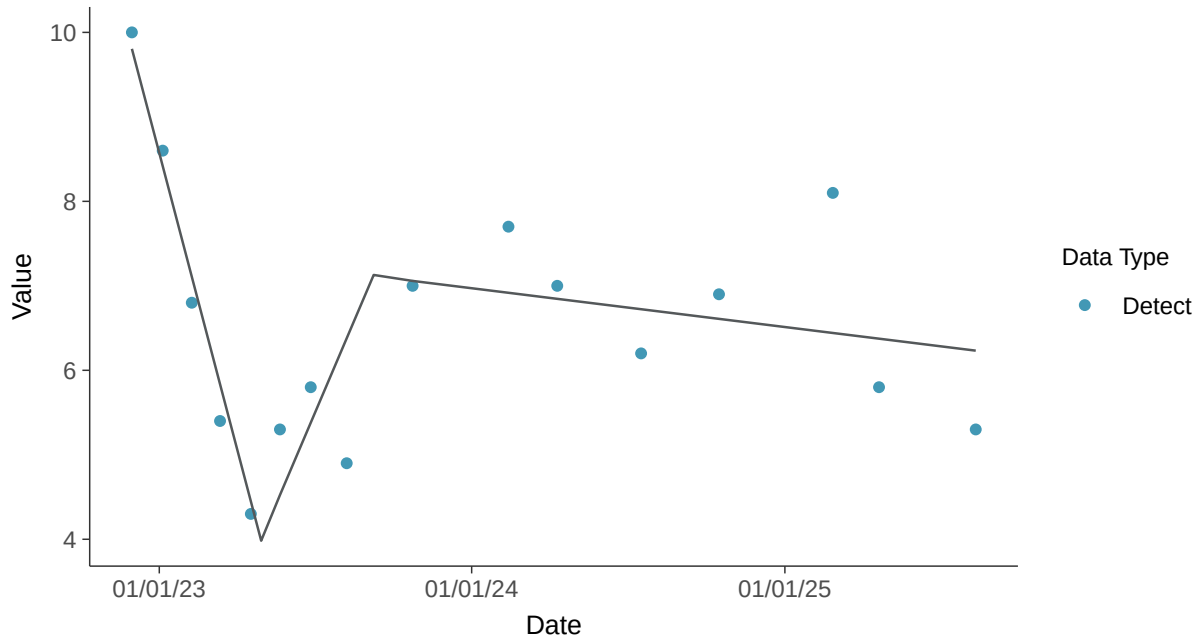
Trend Regression: Piecewise Linear-Linear

Iron, MW-18 (mg/L)



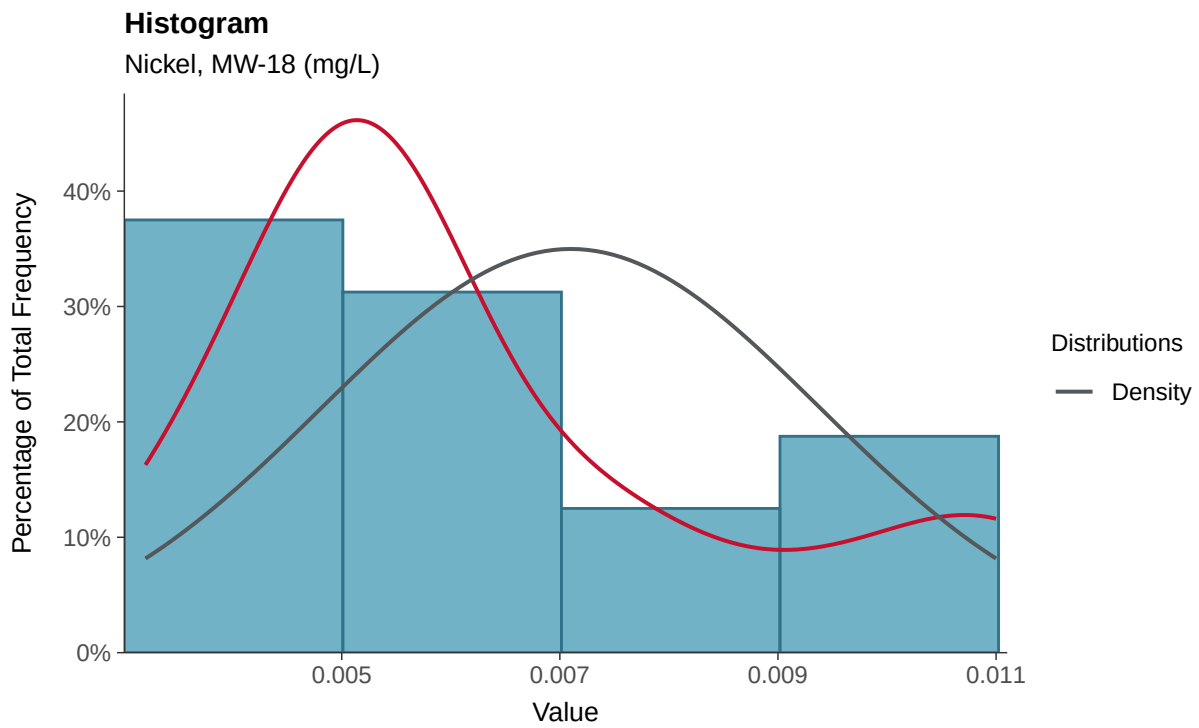
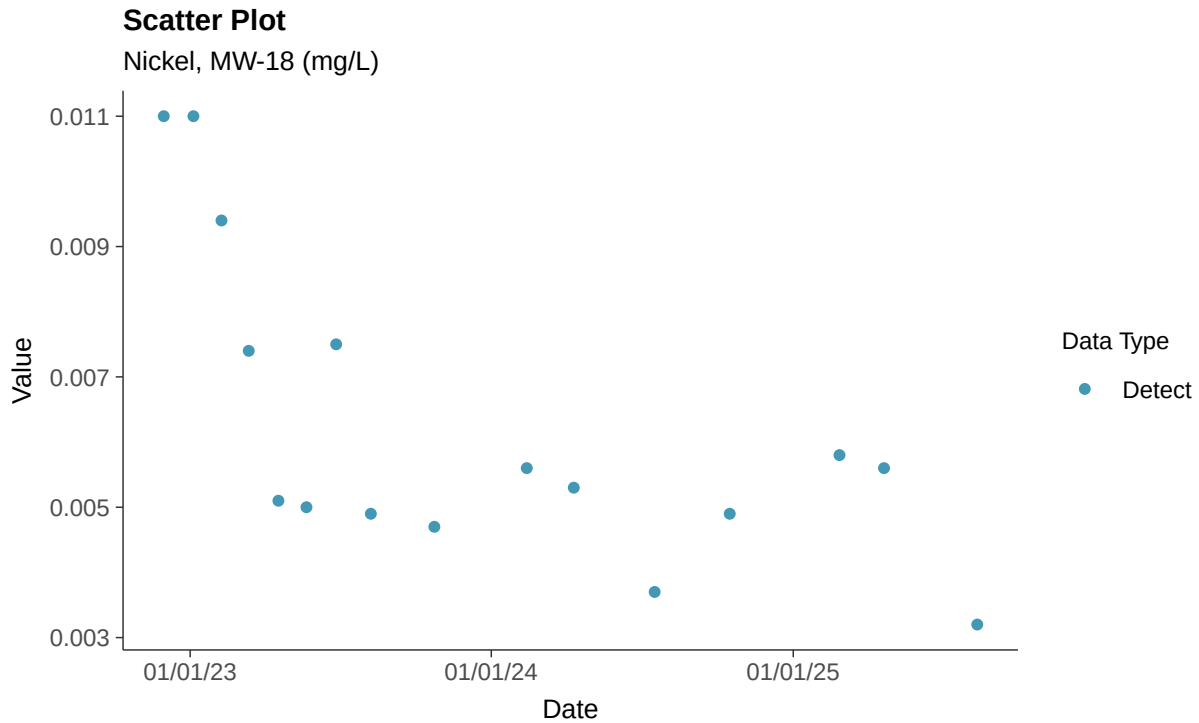
Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-18 (mg/L)



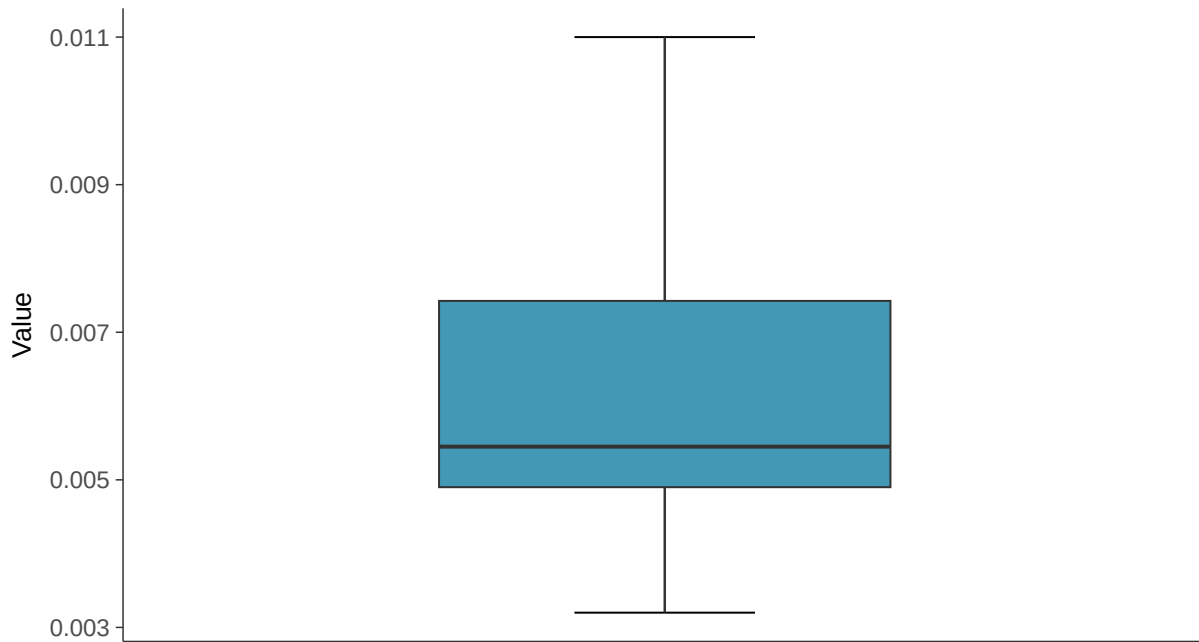
Part 115: Nickel, MW-18

ID: 28_1_5_119



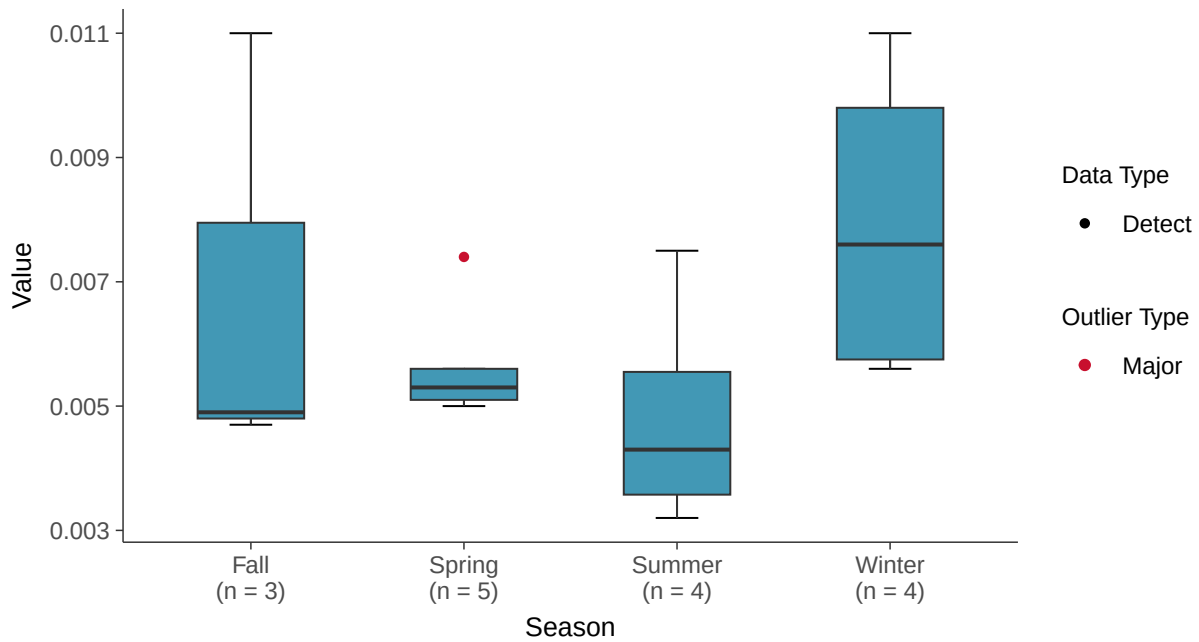
Boxplot

Nickel, MW-18 (mg/L)



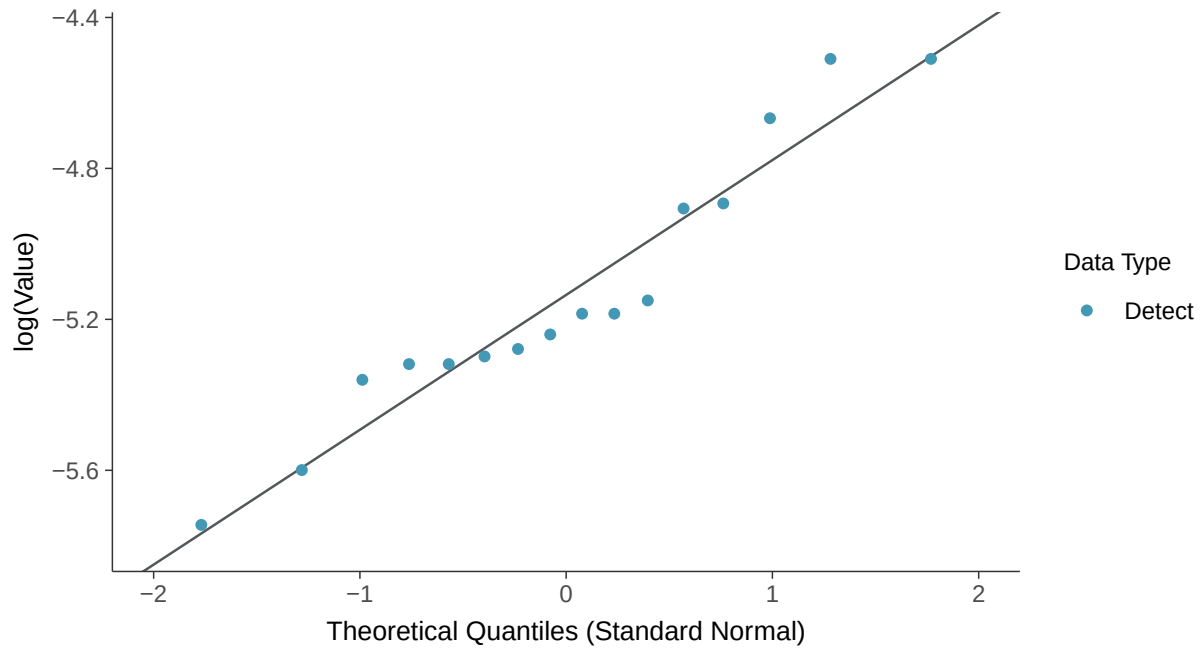
Boxplot by Season

Nickel, MW-18 (mg/L)



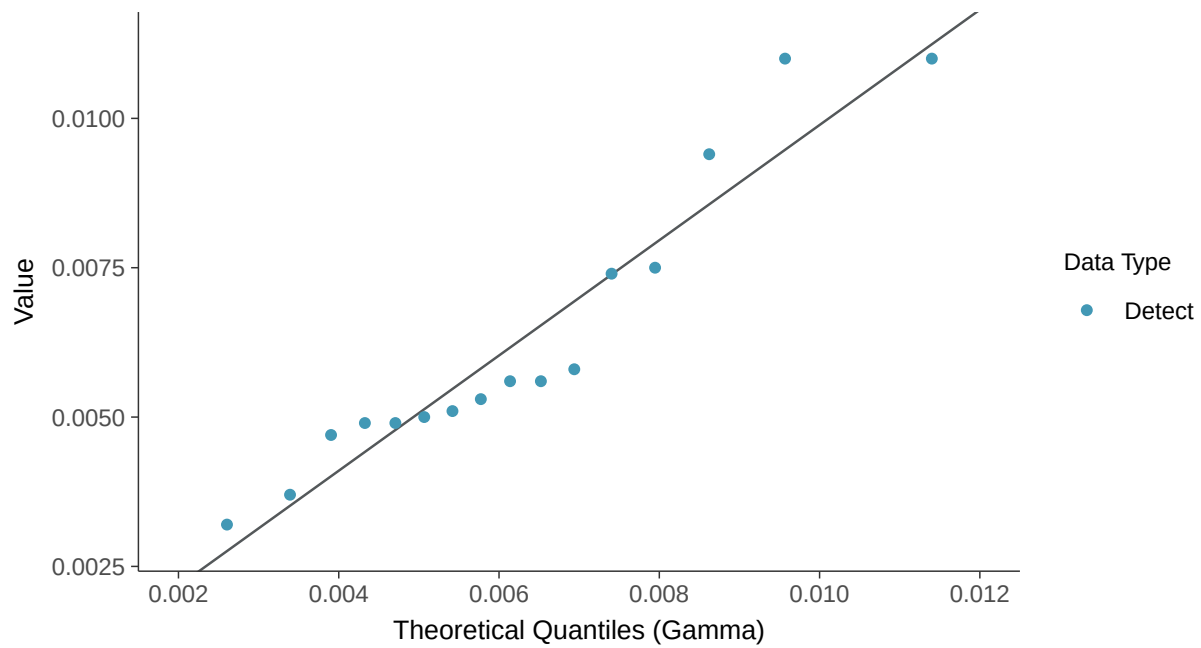
Lognormal Q-Q plot

Nickel, MW-18 (mg/L)



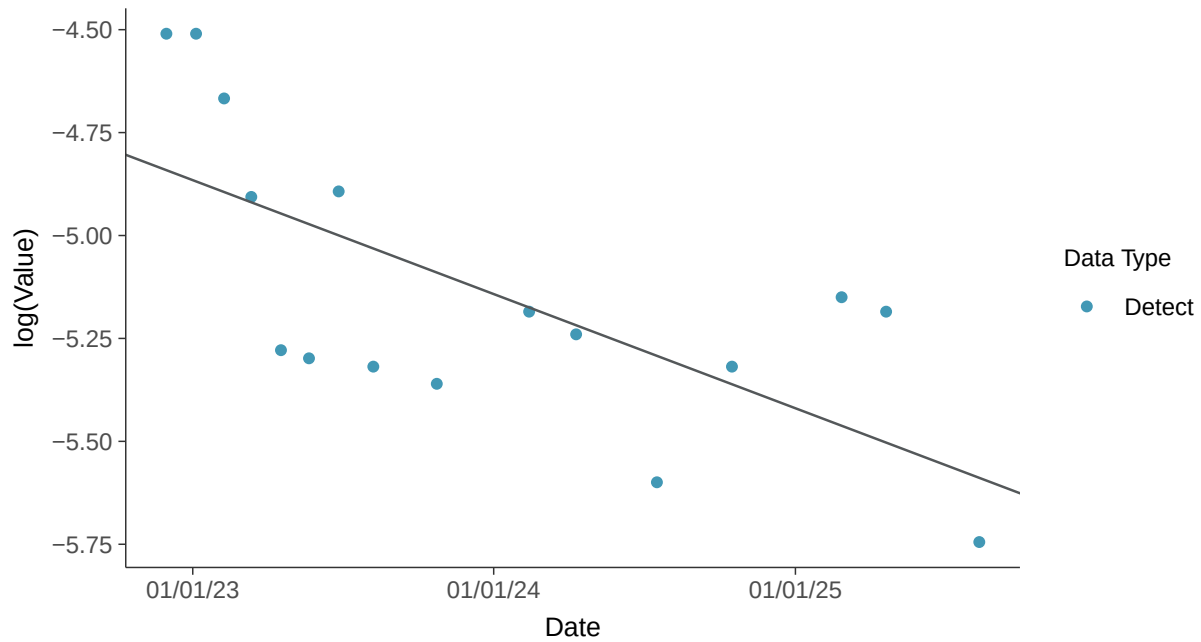
Gamma Q-Q plot

Nickel, MW-18 (mg/L)



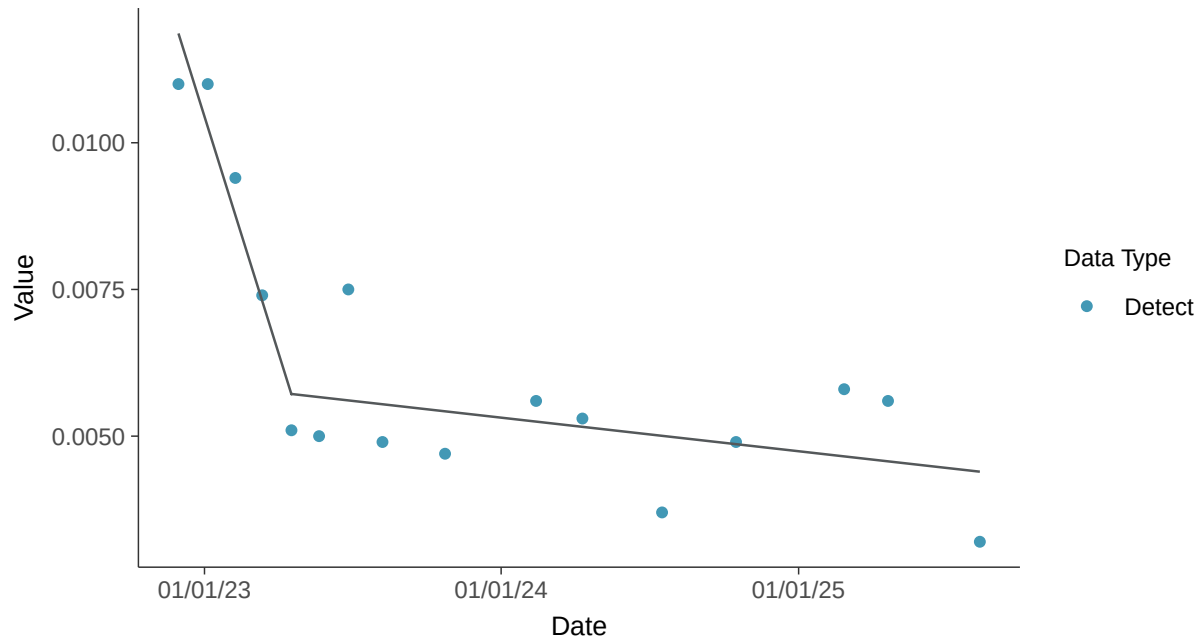
Trend Regression: Lognormal MLE

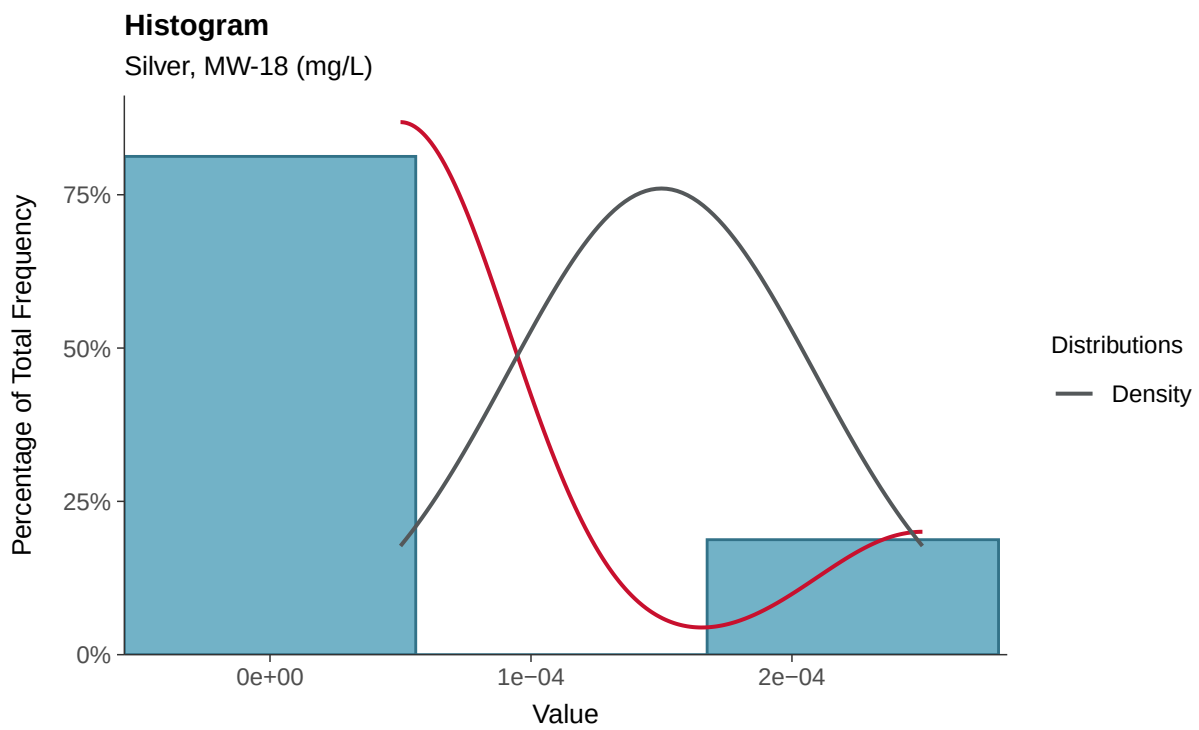
Nickel, MW-18 (mg/L)

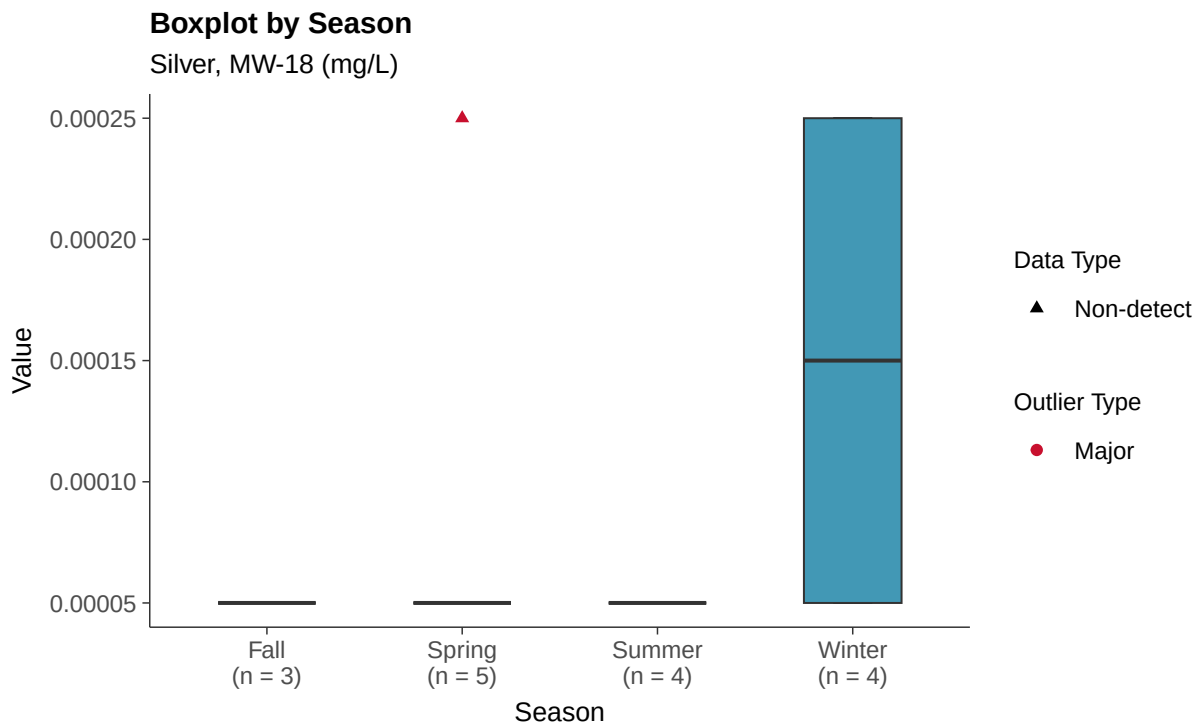
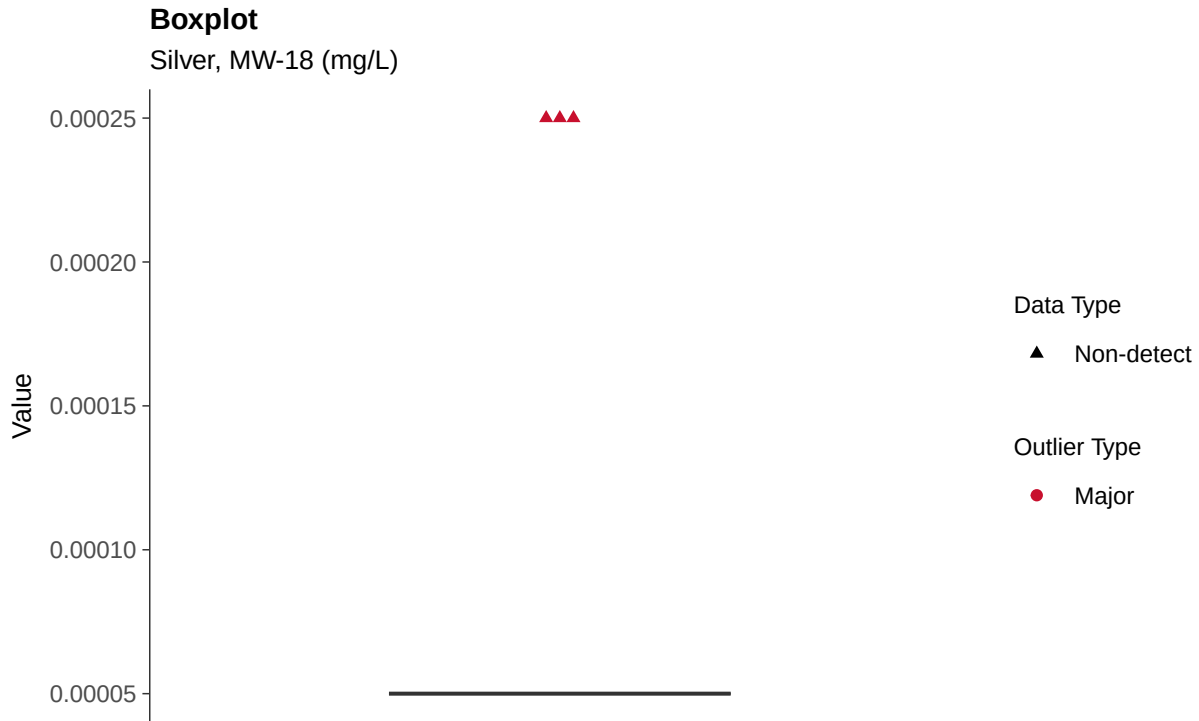


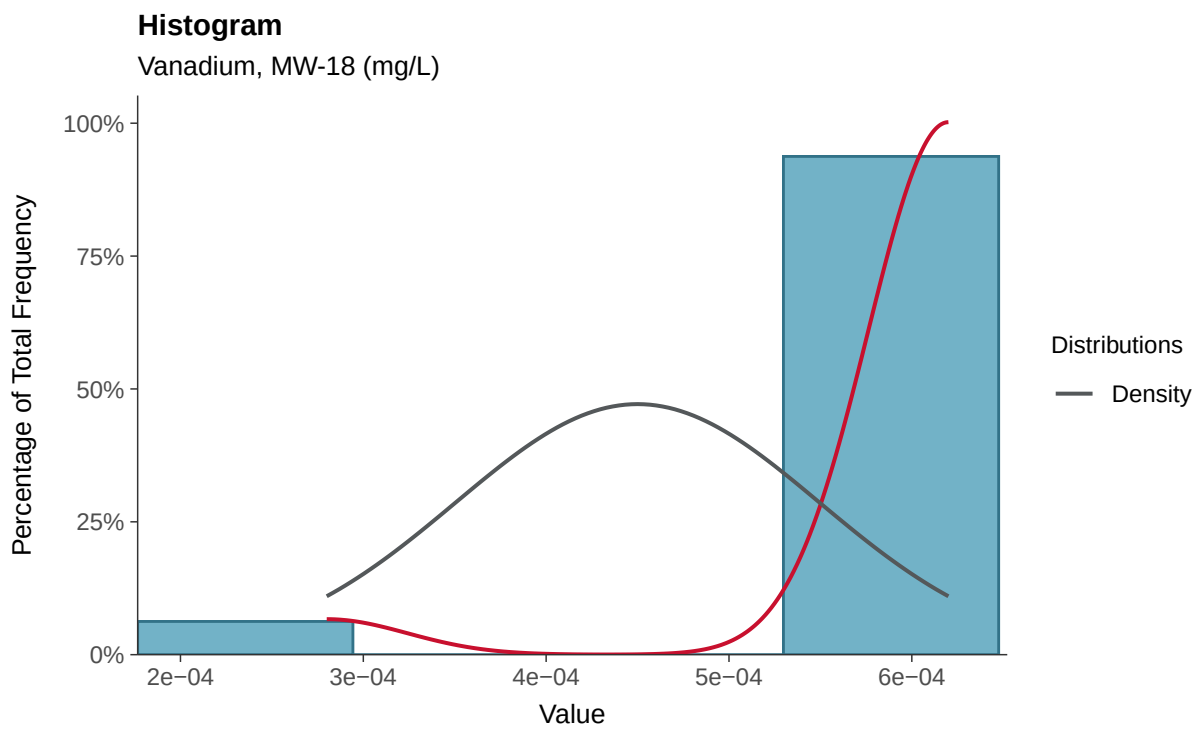
Trend Regression: Piecewise Linear-Linear

Nickel, MW-18 (mg/L)



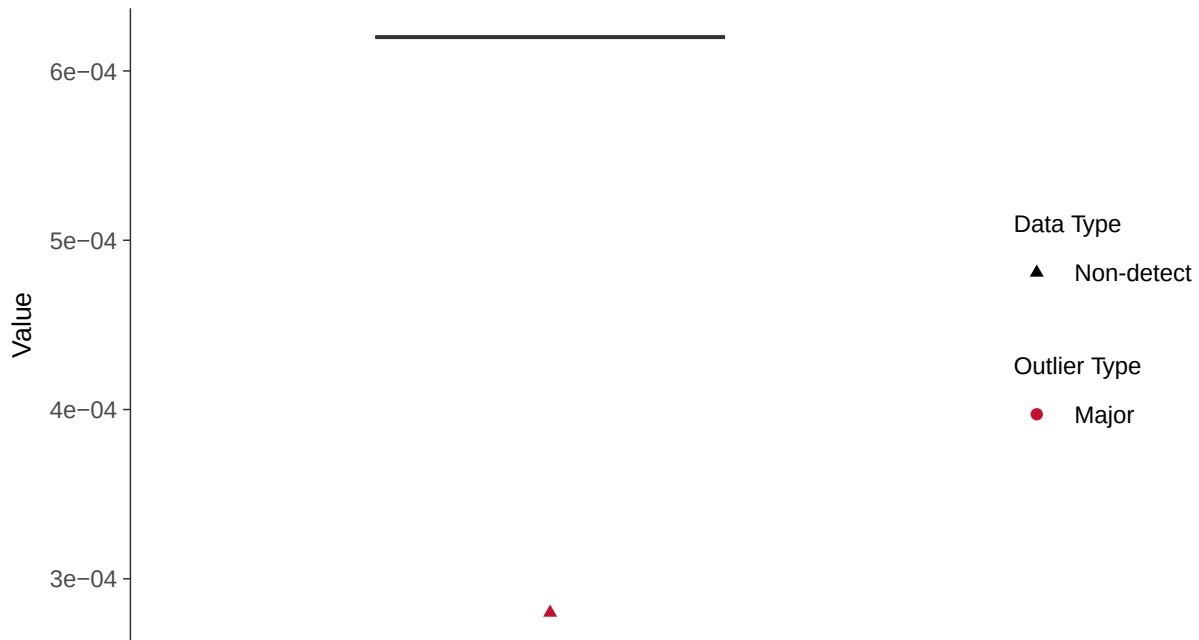






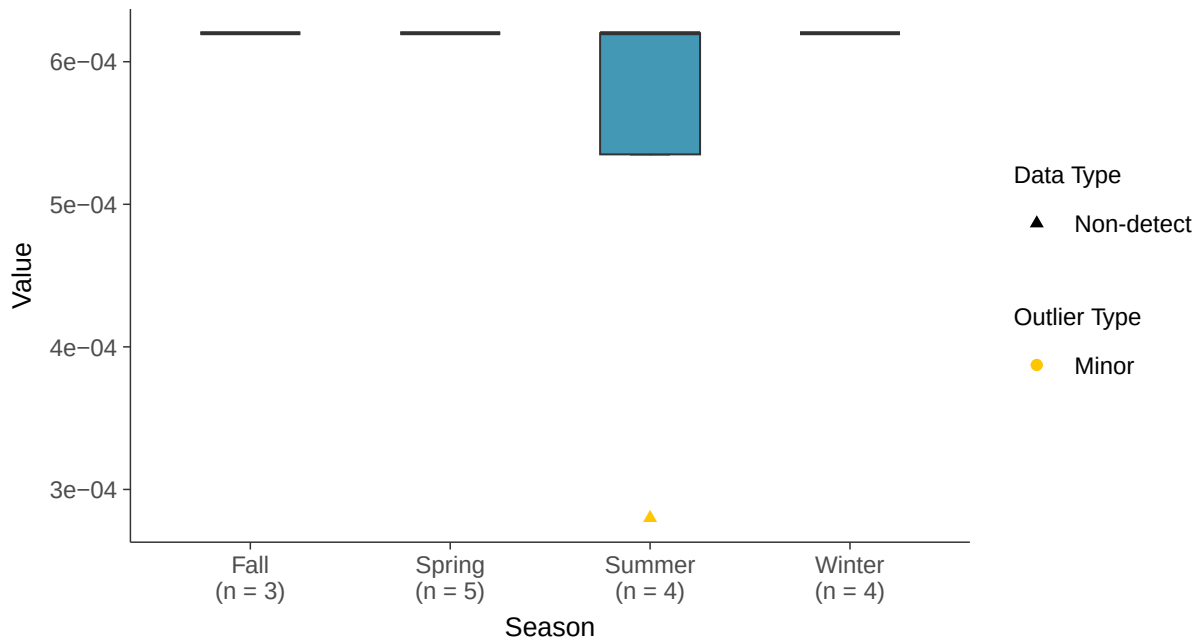
Boxplot

Vanadium, MW-18 (mg/L)



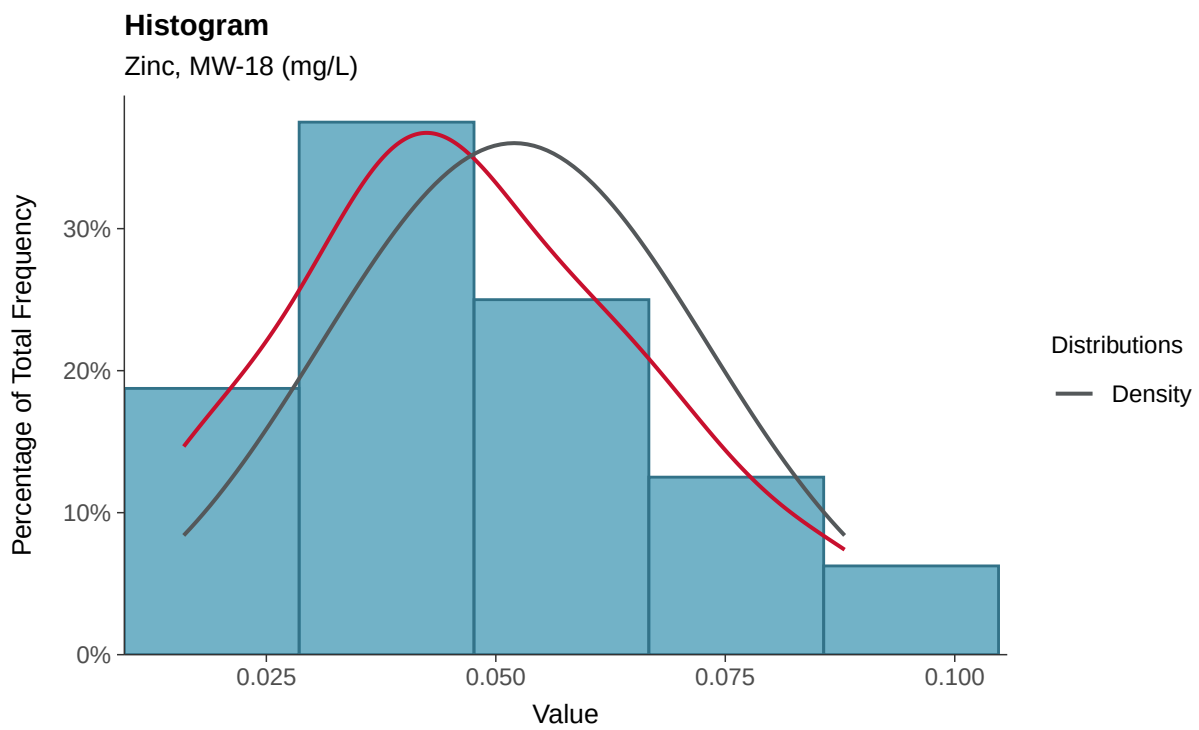
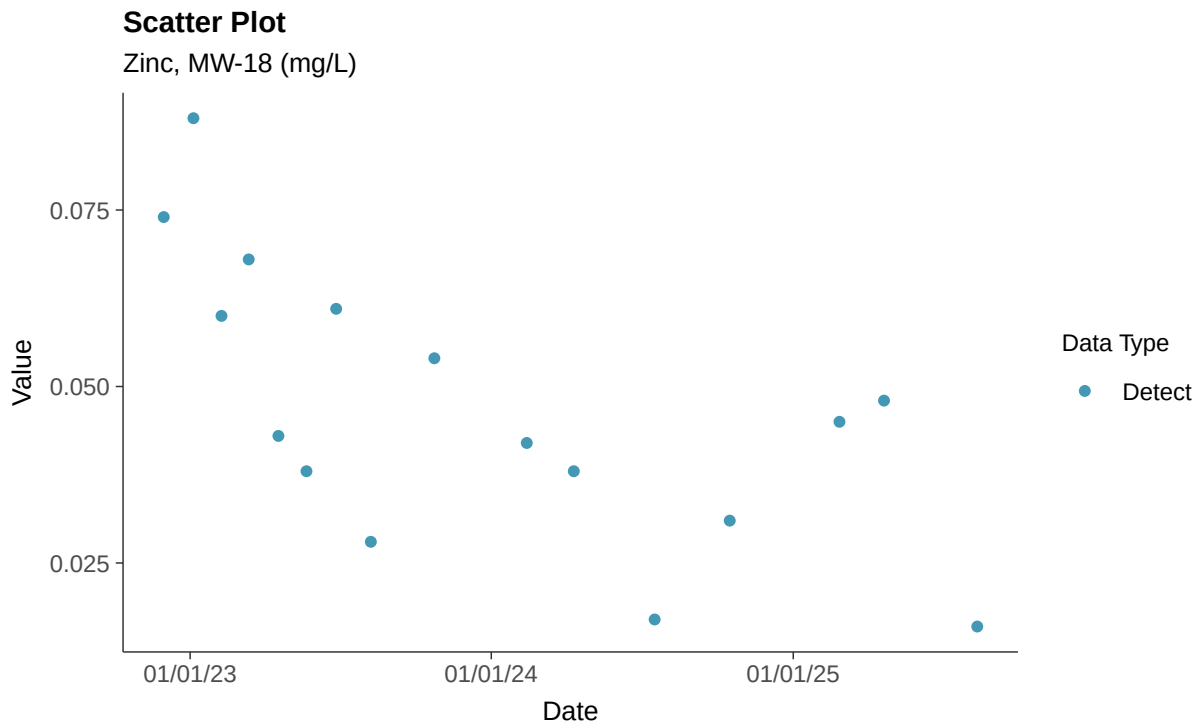
Boxplot by Season

Vanadium, MW-18 (mg/L)



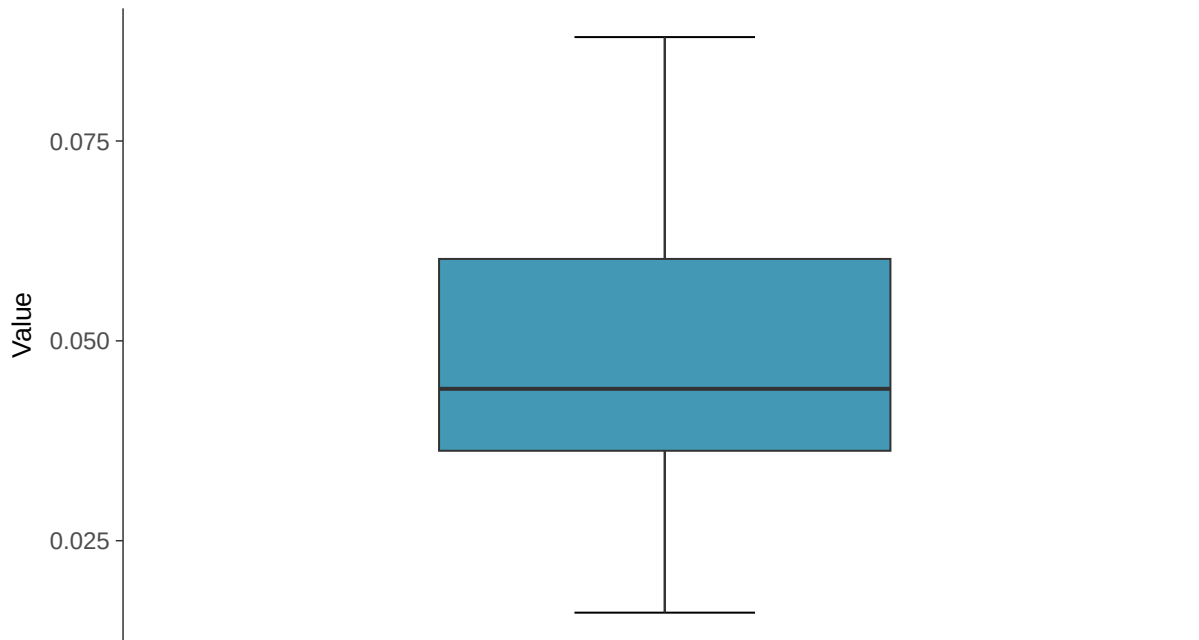
Part 115: Zinc, MW-18

ID: 28_1_5_129



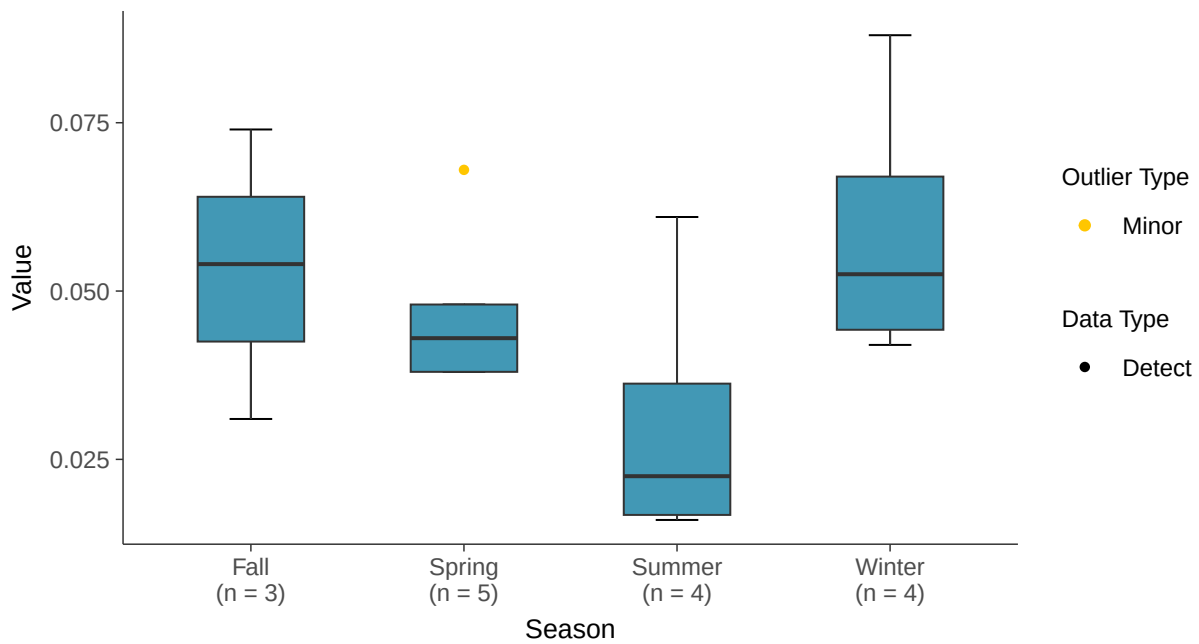
Boxplot

Zinc, MW-18 (mg/L)



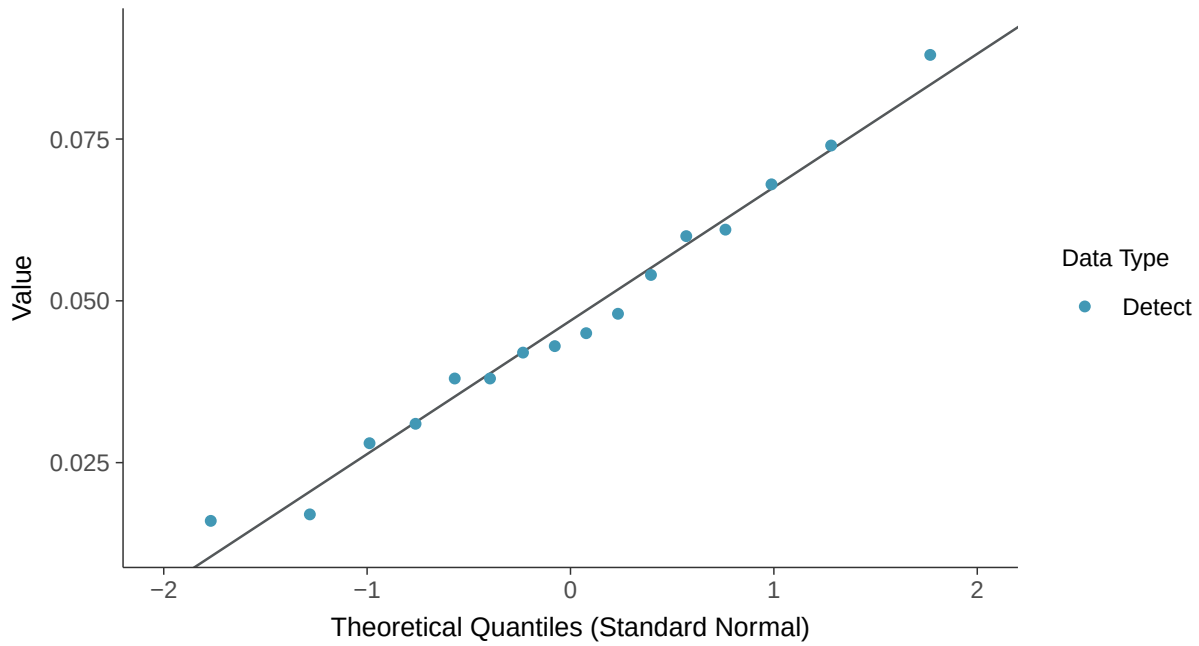
Boxplot by Season

Zinc, MW-18 (mg/L)



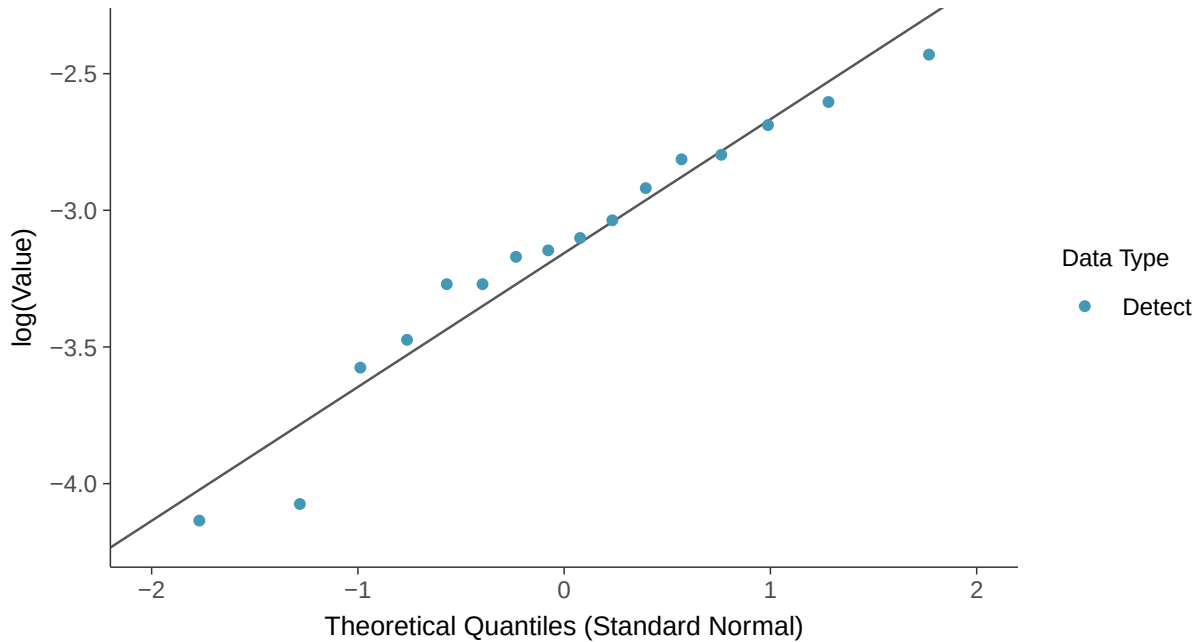
Normal Q-Q plot

Zinc, MW-18 (mg/L)



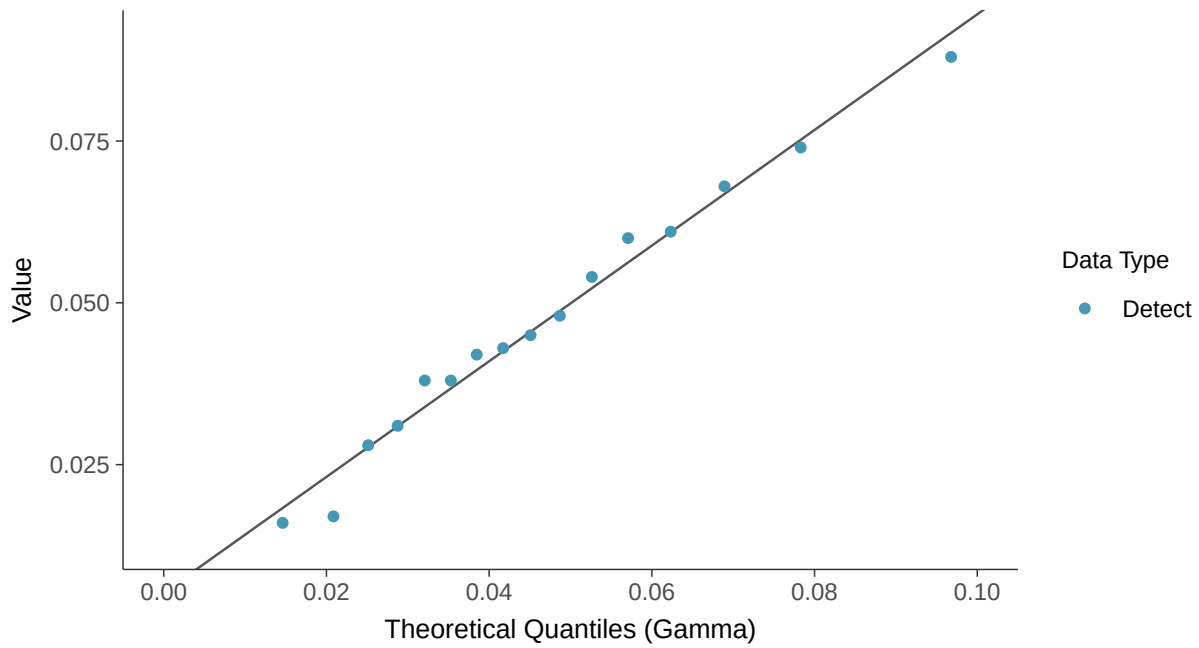
Lognormal Q-Q plot

Zinc, MW-18 (mg/L)



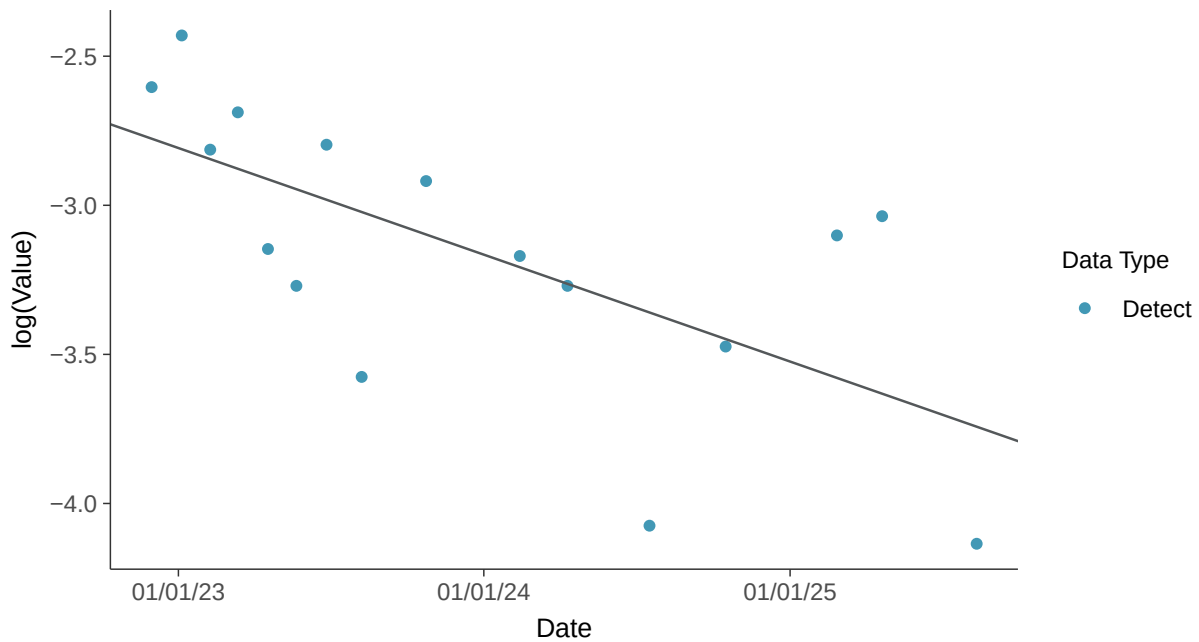
Gamma Q-Q plot

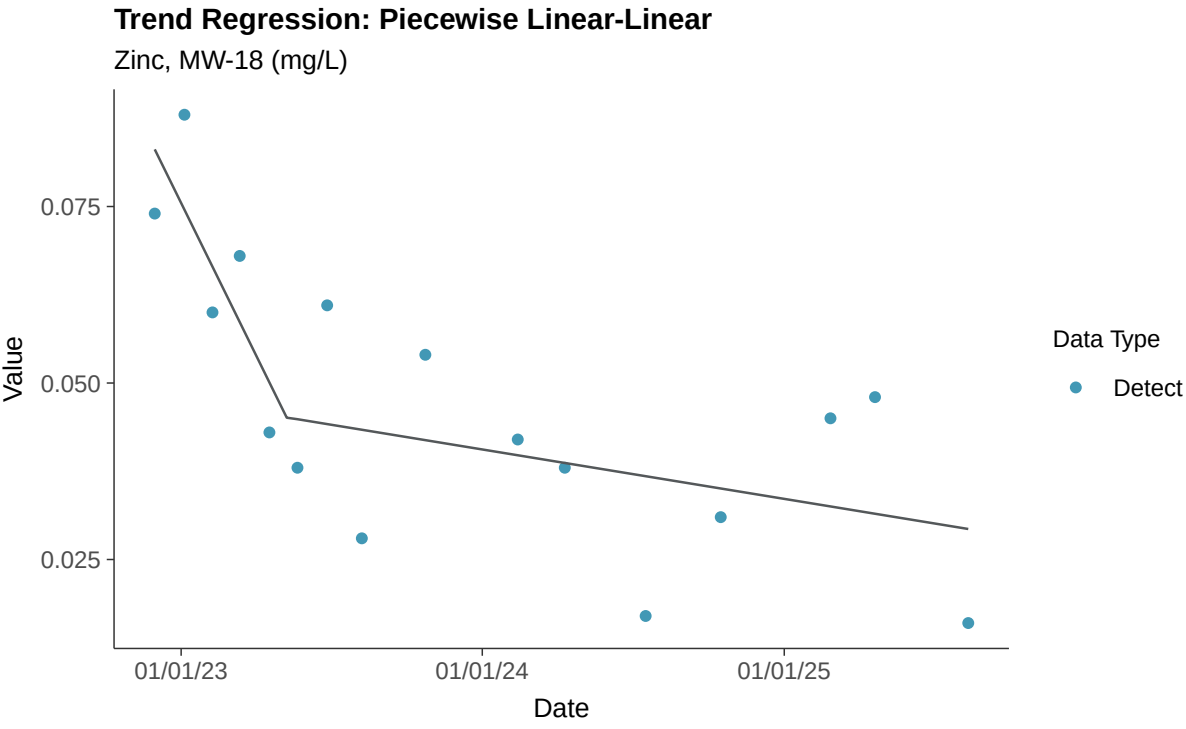
Zinc, MW-18 (mg/L)



Trend Regression: Lognormal MLE

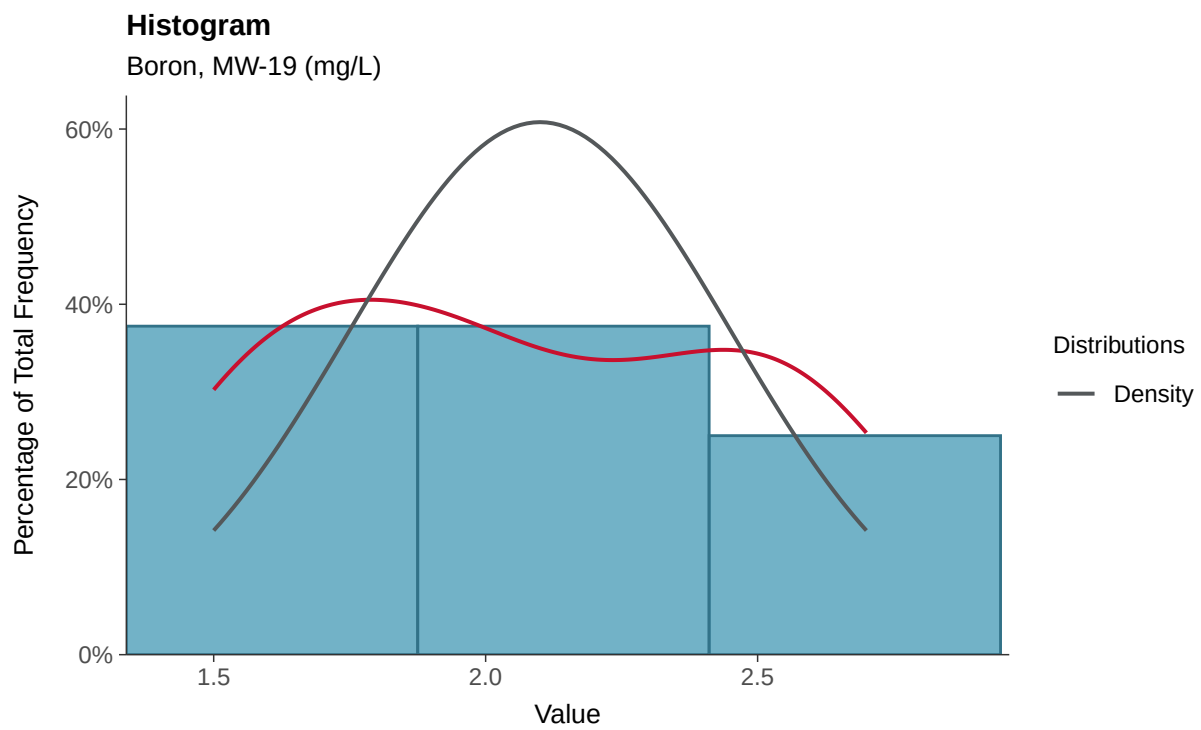
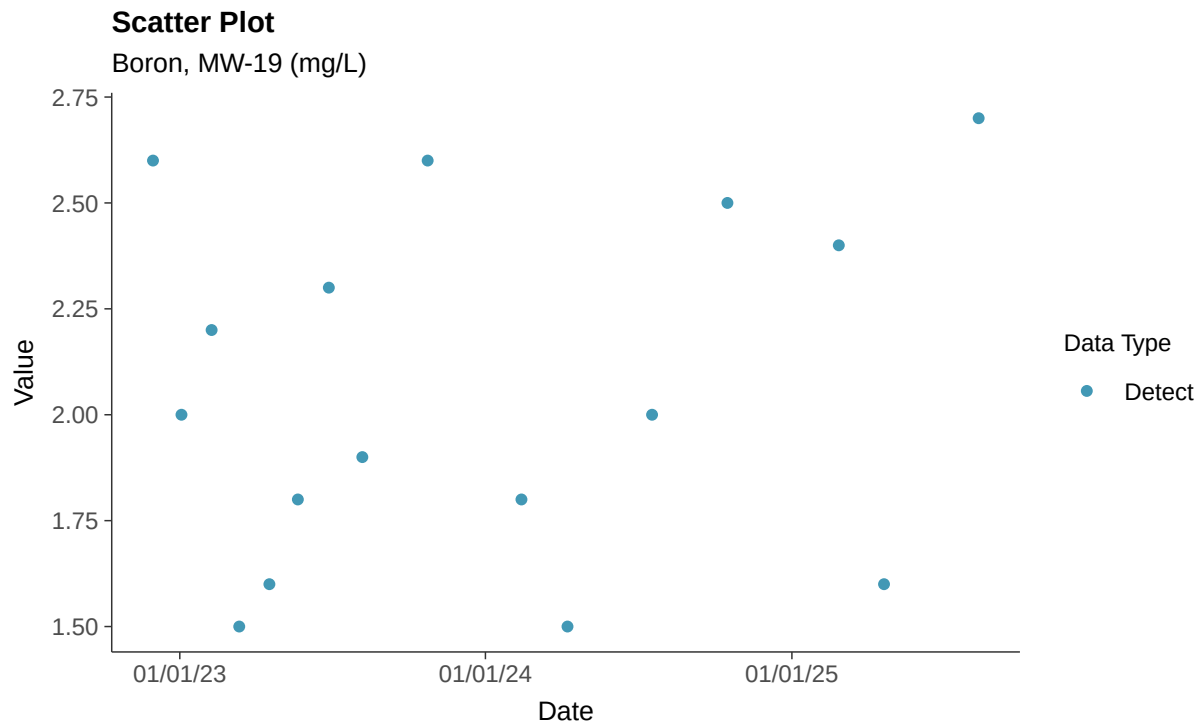
Zinc, MW-18 (mg/L)





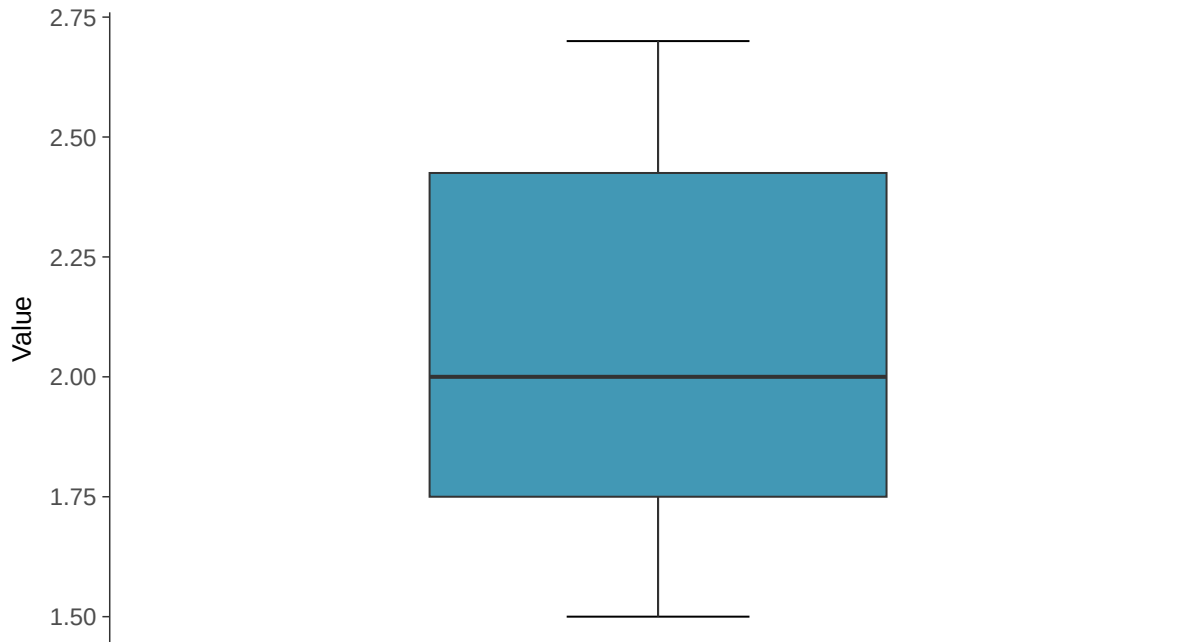
Appendix III: Boron, MW-19

ID: 29_1_3_105



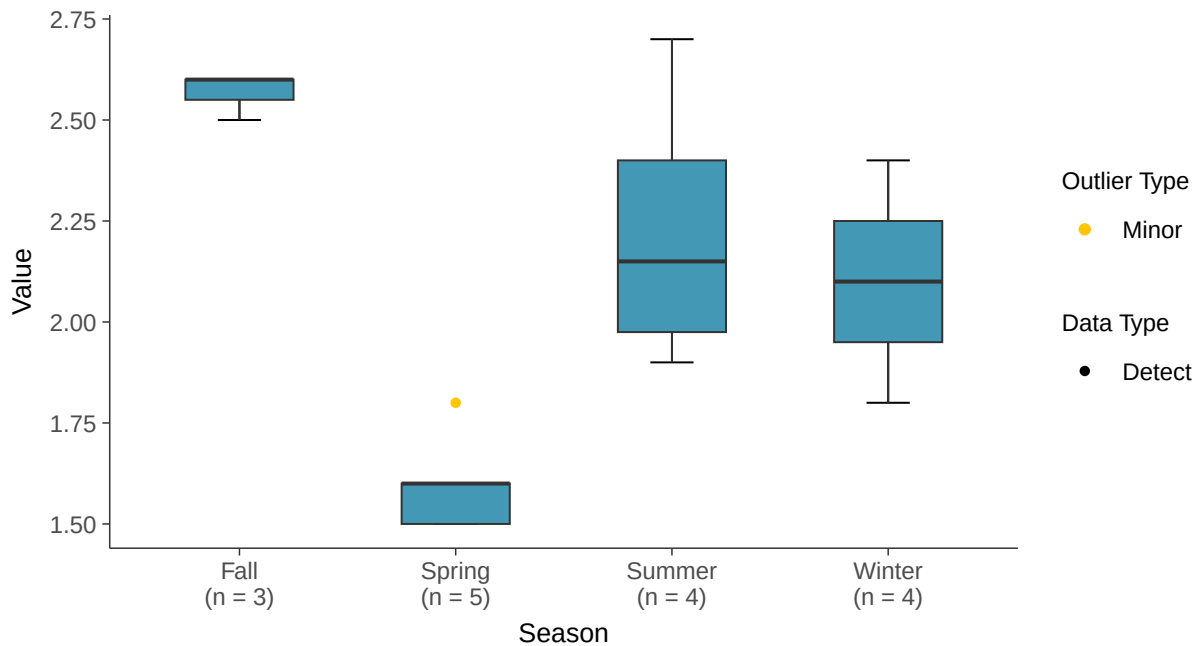
Boxplot

Boron, MW-19 (mg/L)



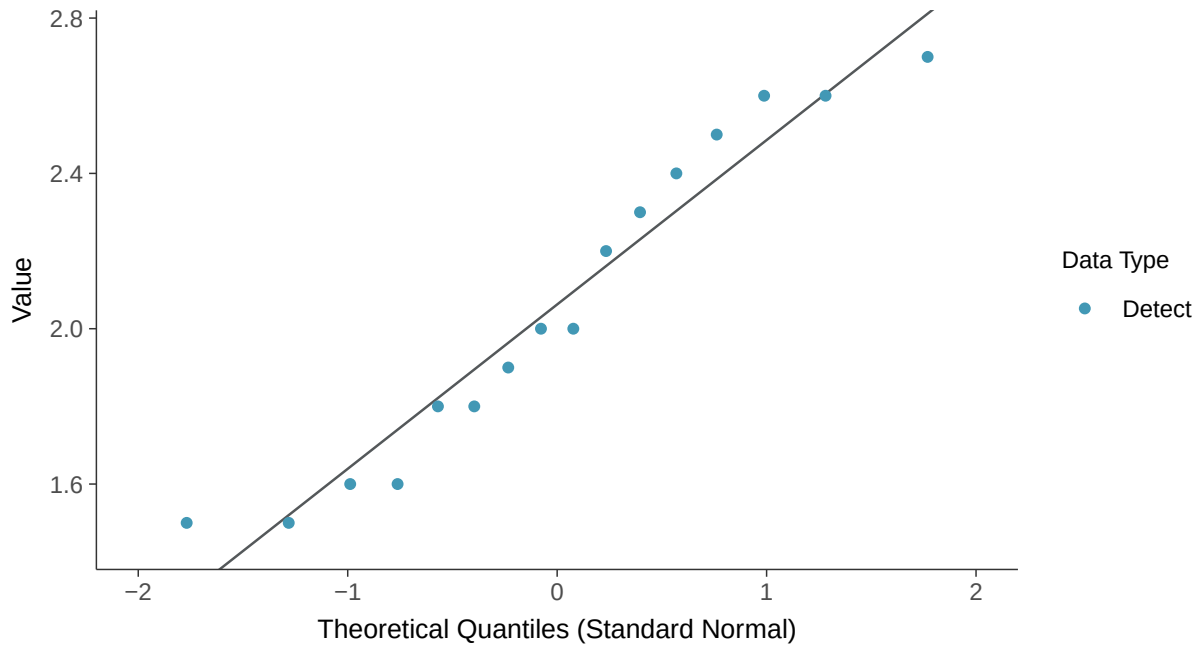
Boxplot by Season

Boron, MW-19 (mg/L)



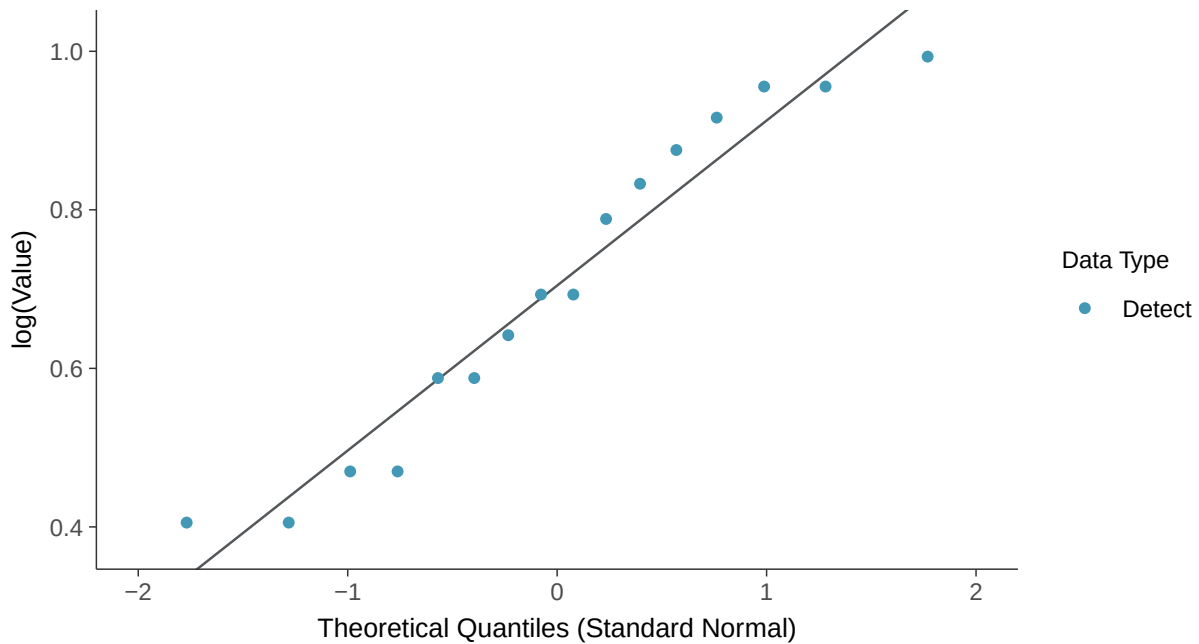
Normal Q-Q plot

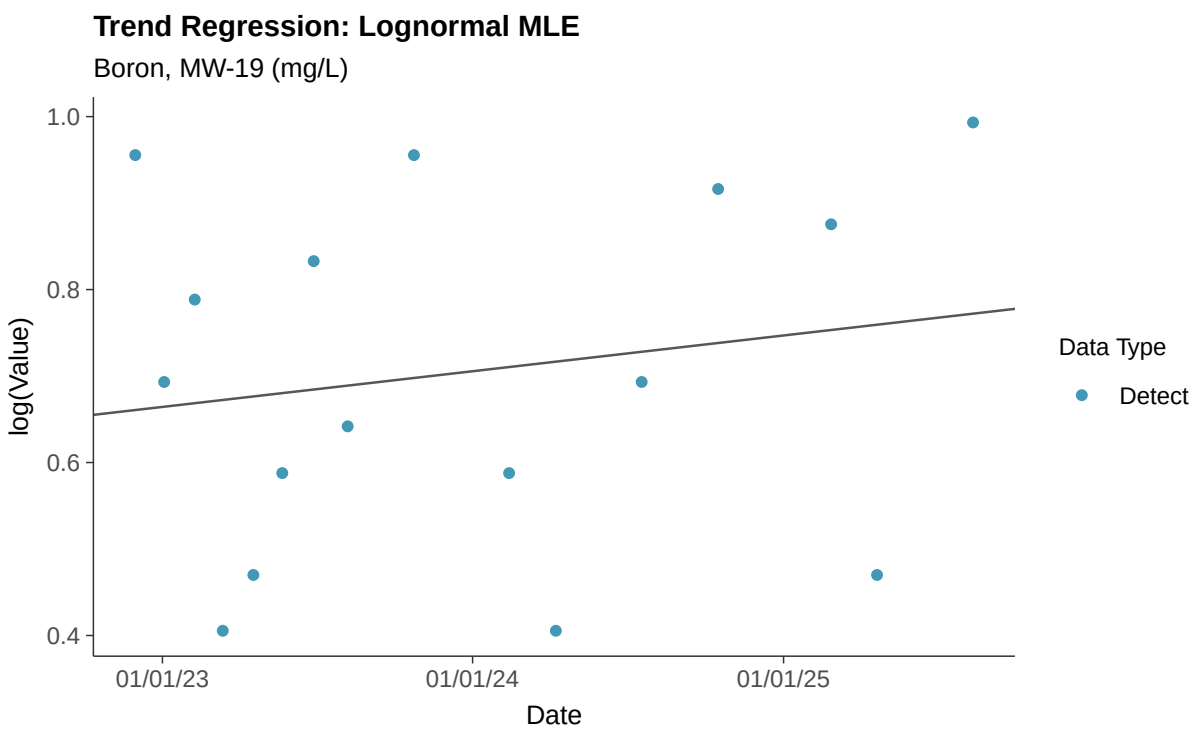
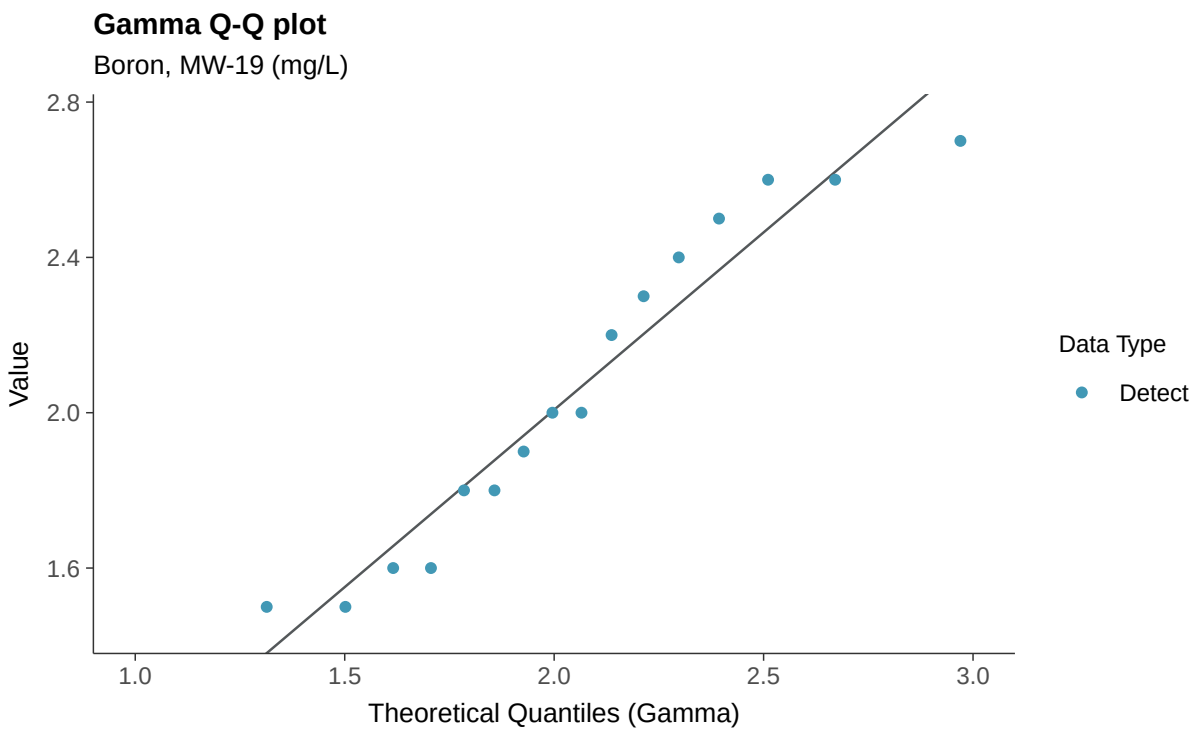
Boron, MW-19 (mg/L)



Lognormal Q-Q plot

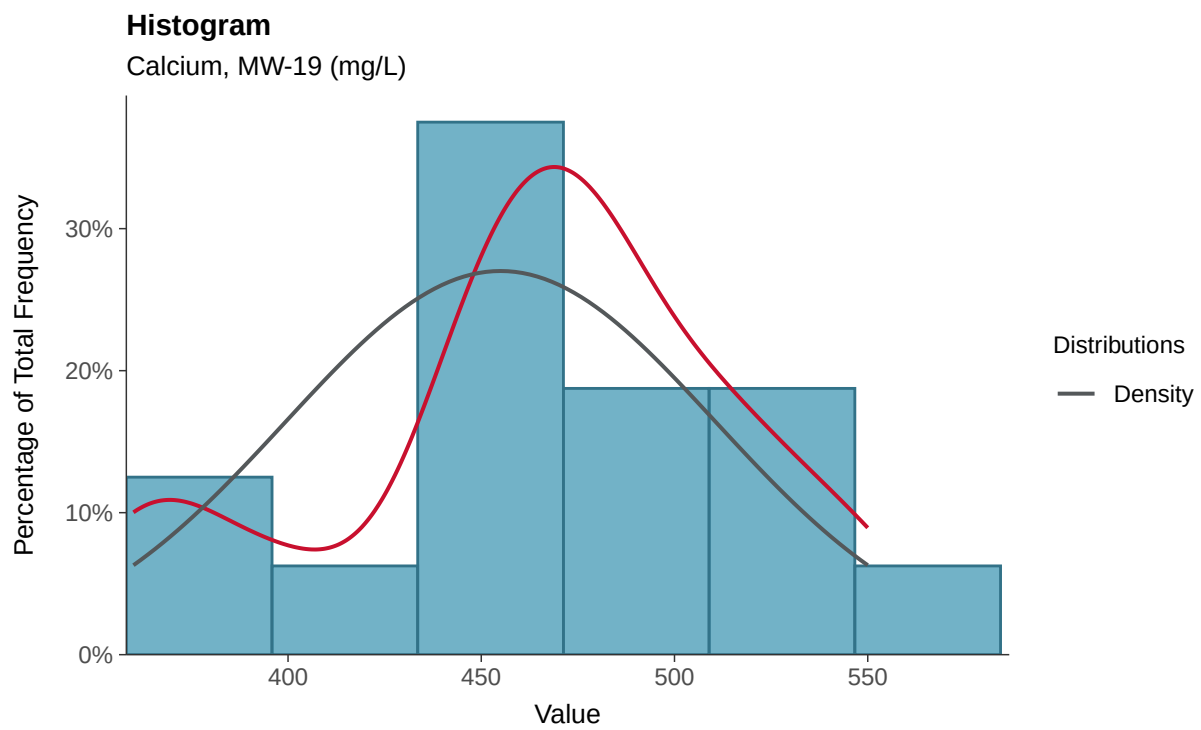
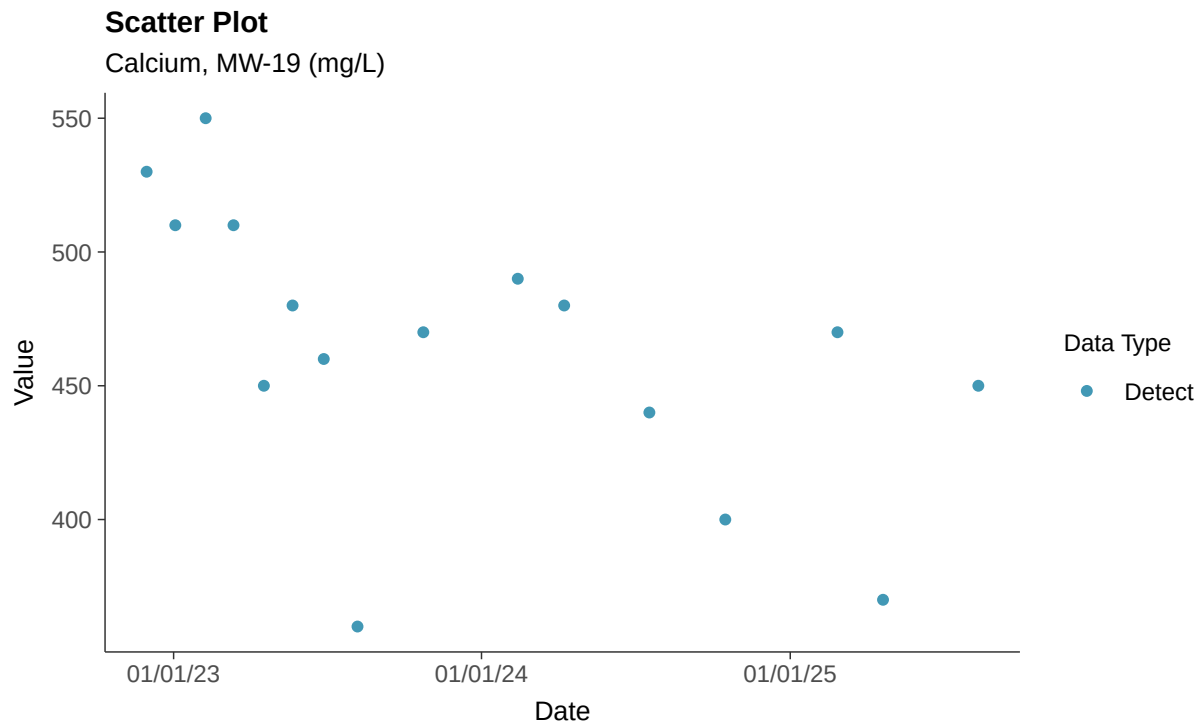
Boron, MW-19 (mg/L)





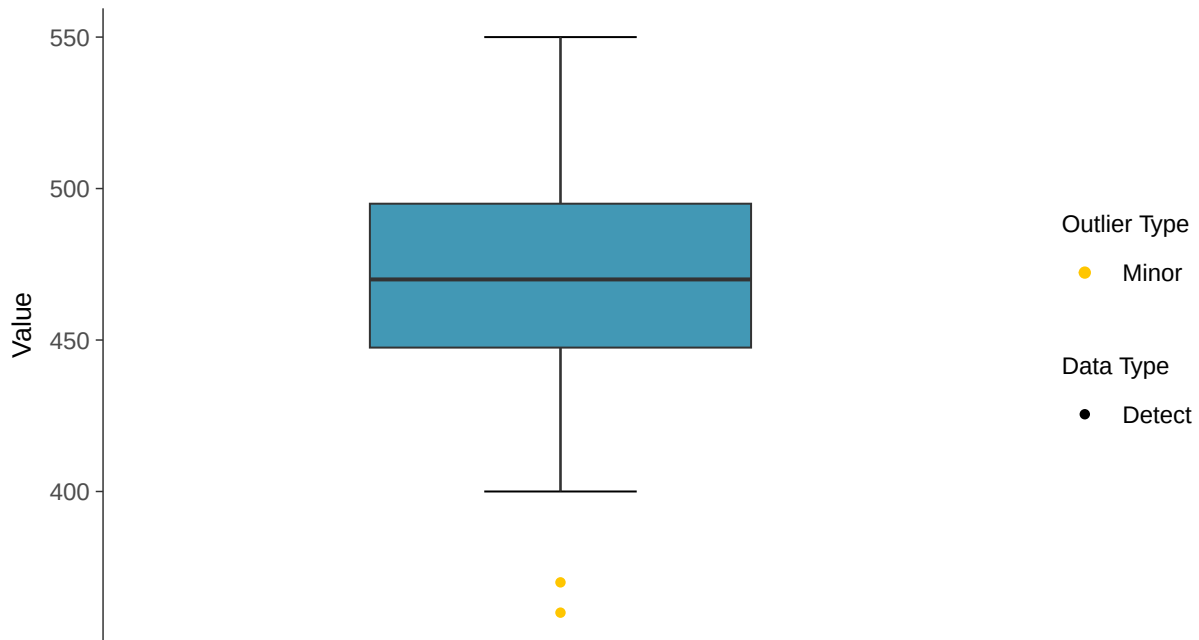
Appendix III: Calcium, MW-19

ID: 29_1_3_107



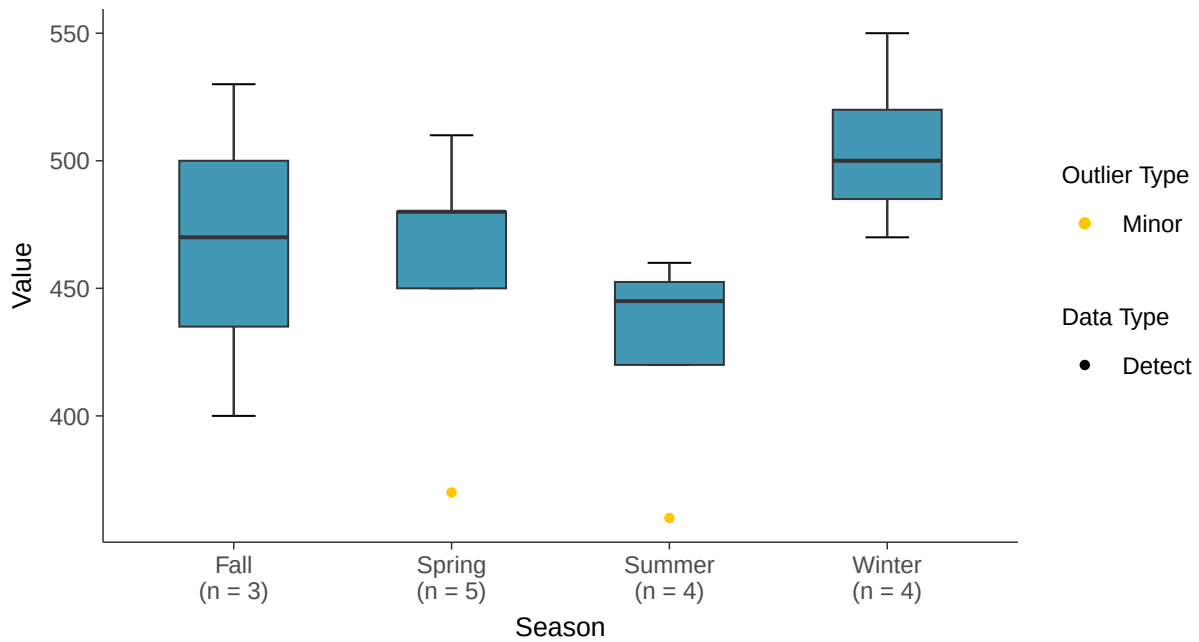
Boxplot

Calcium, MW-19 (mg/L)



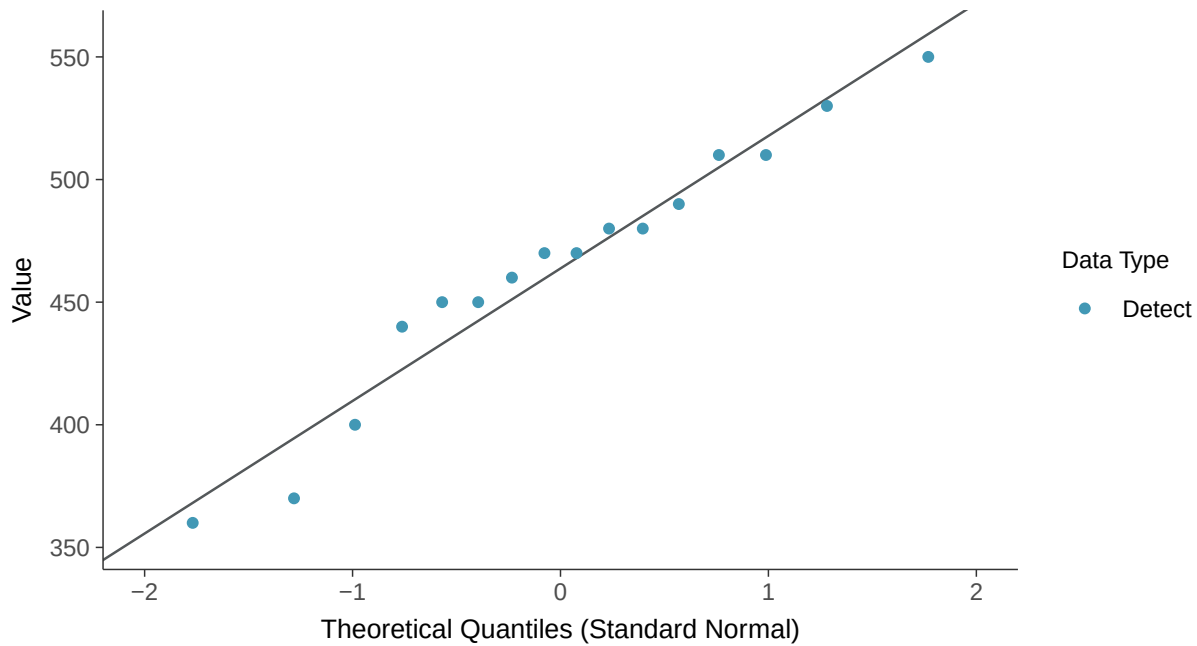
Boxplot by Season

Calcium, MW-19 (mg/L)



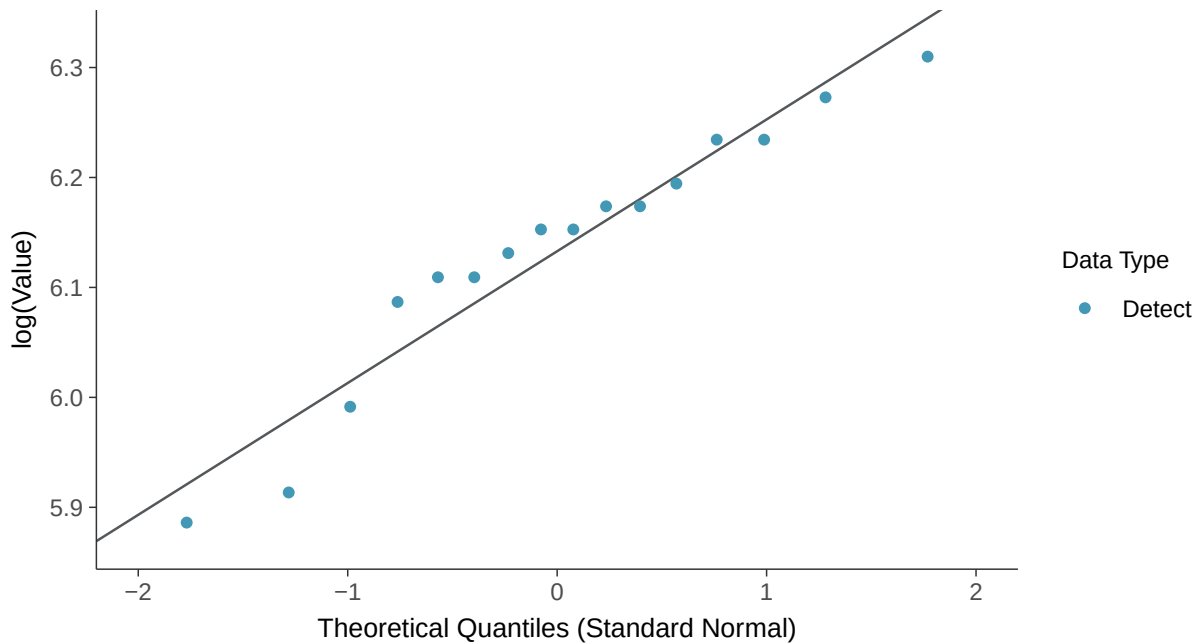
Normal Q-Q plot

Calcium, MW-19 (mg/L)



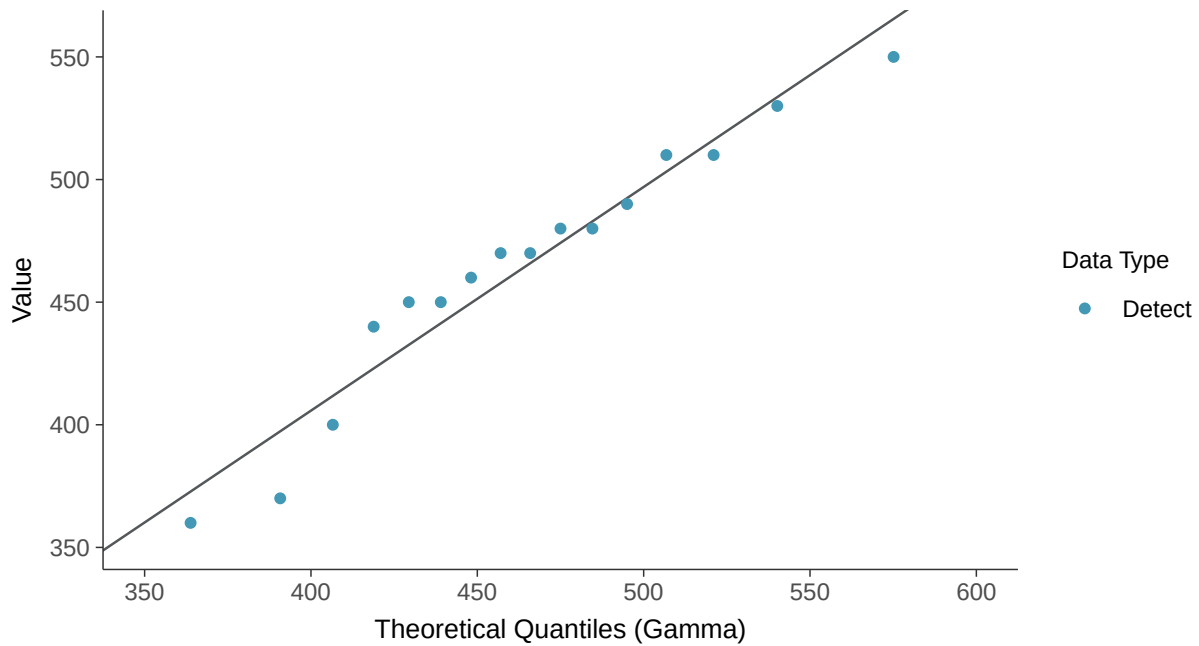
Lognormal Q-Q plot

Calcium, MW-19 (mg/L)



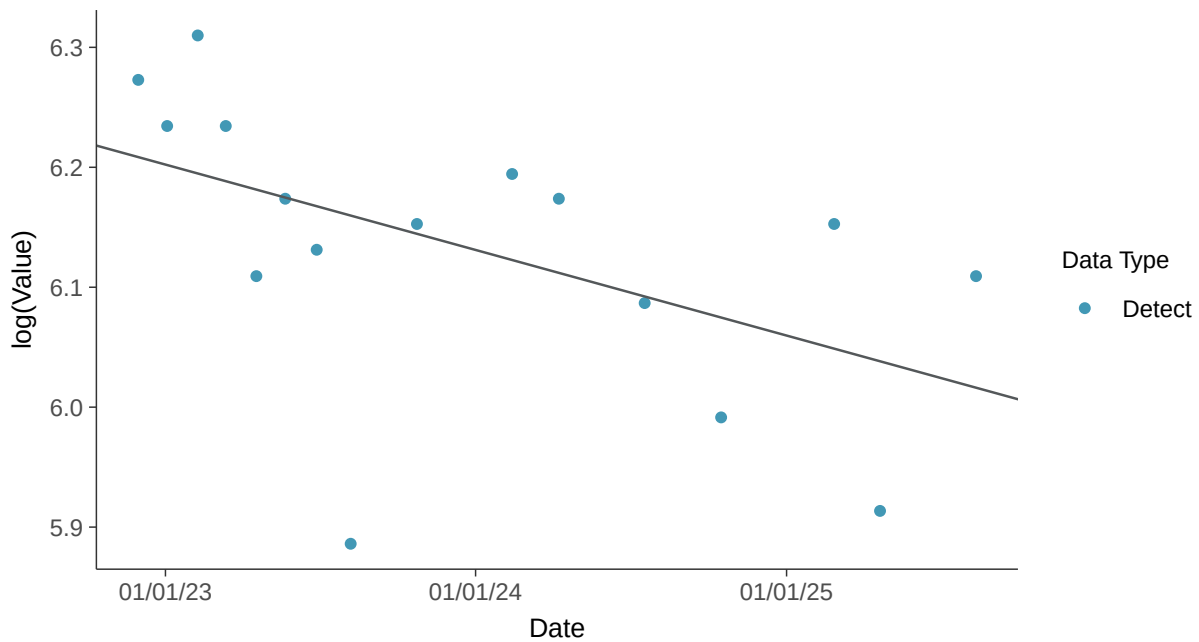
Gamma Q-Q plot

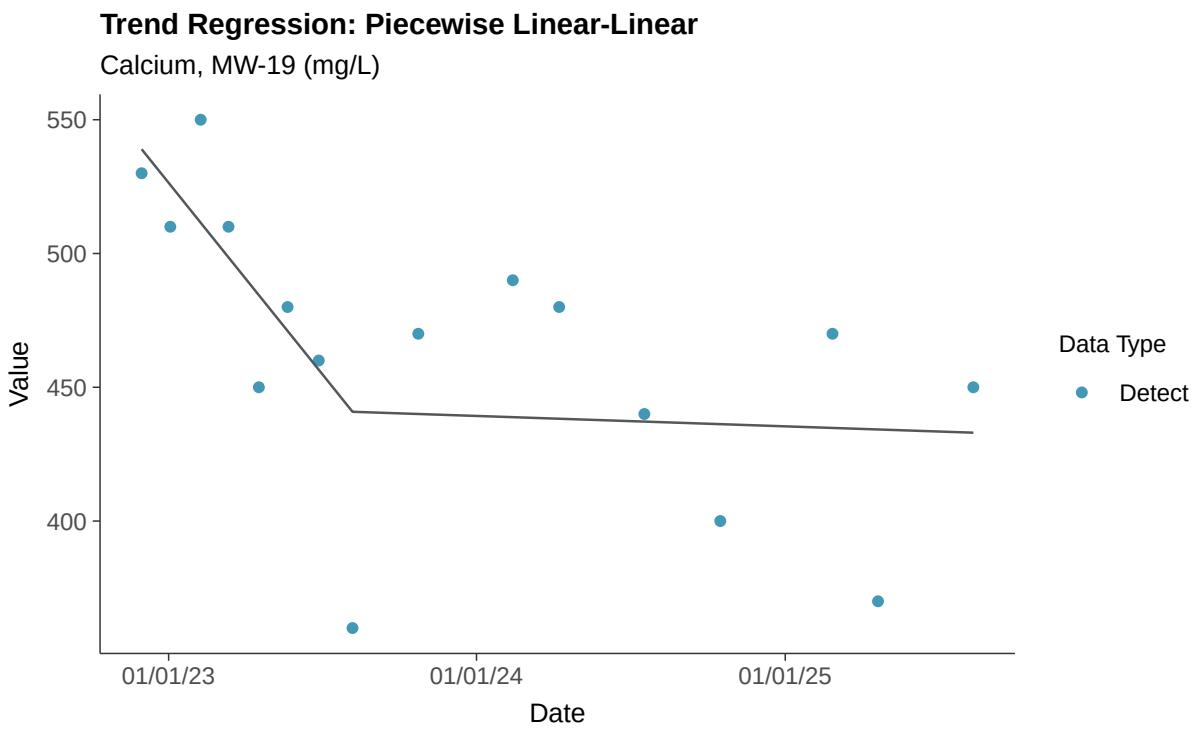
Calcium, MW-19 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-19 (mg/L)



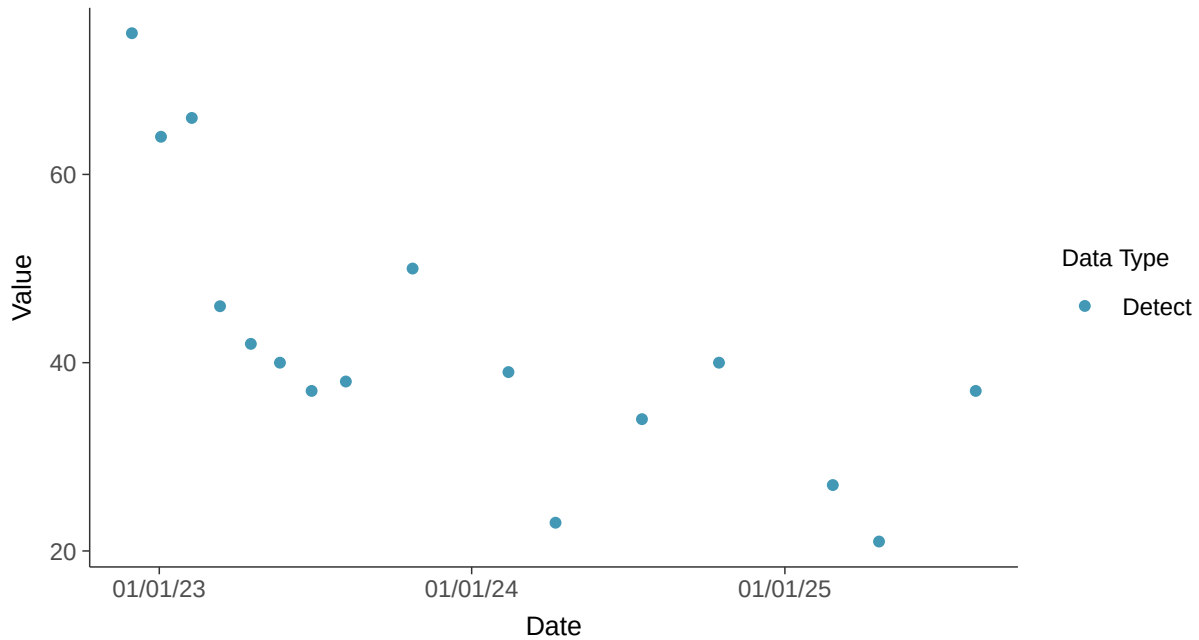


Appendix III: Chloride (as Cl), MW-19

ID: 29_1_3_108

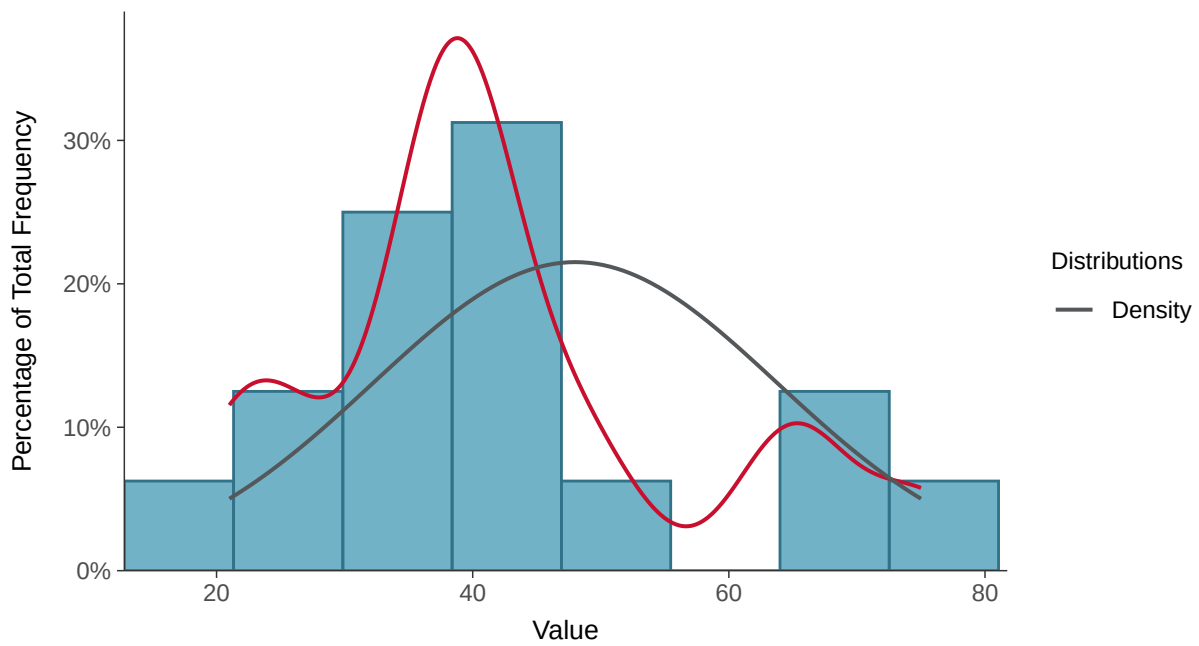
Scatter Plot

Chloride (as Cl), MW-19 (mg/L)



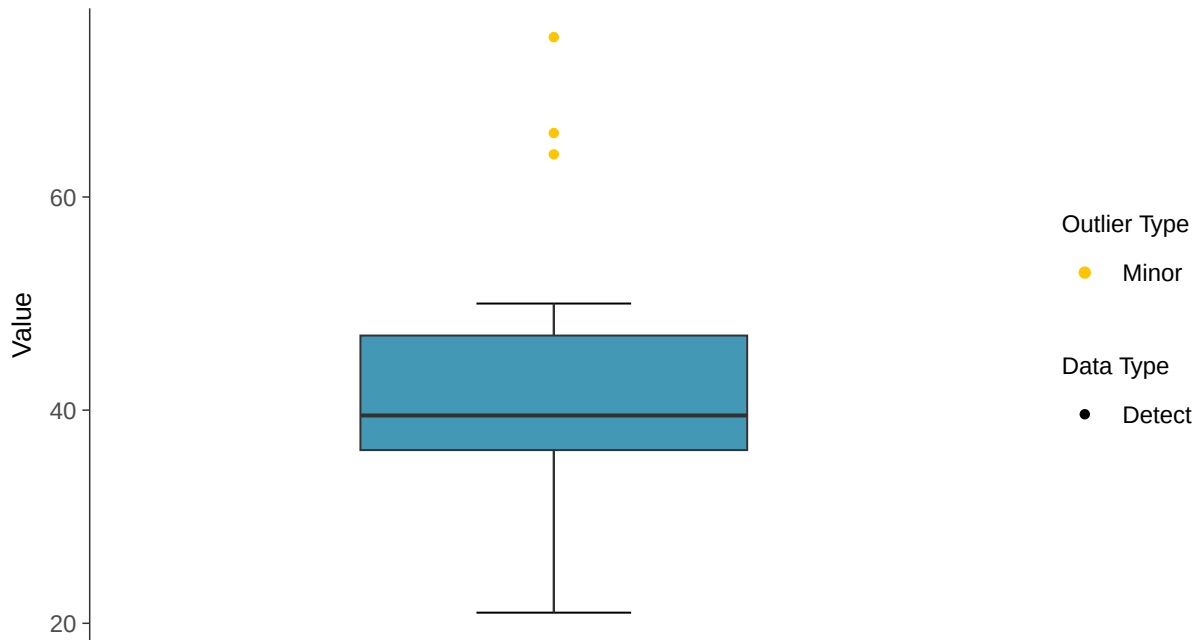
Histogram

Chloride (as Cl), MW-19 (mg/L)



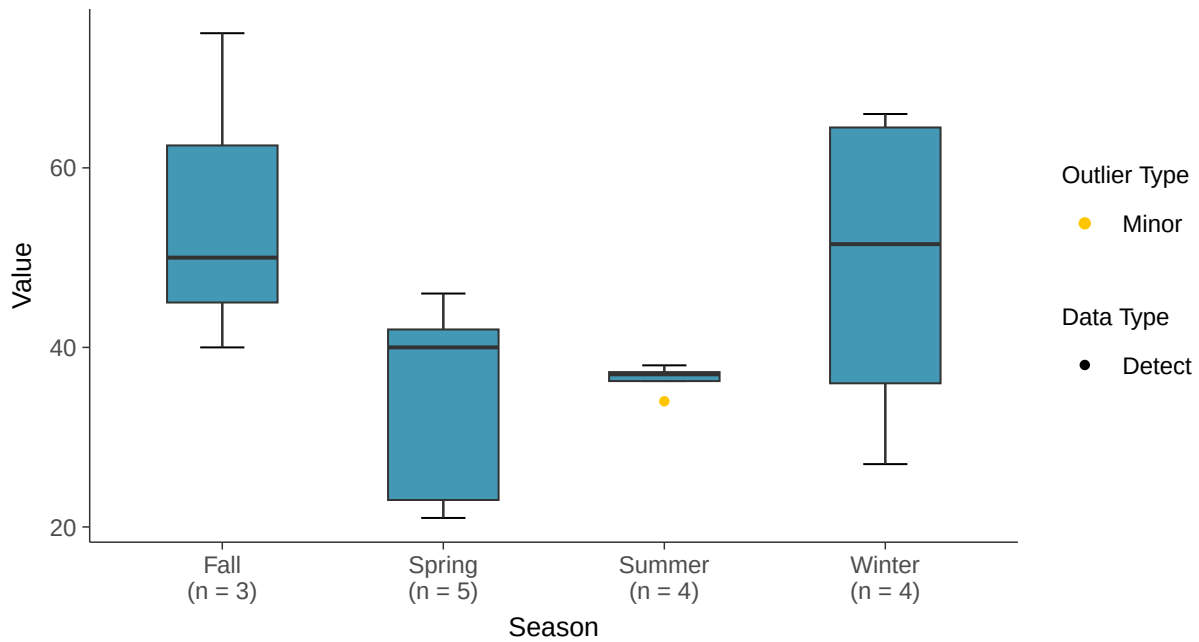
Boxplot

Chloride (as Cl), MW-19 (mg/L)



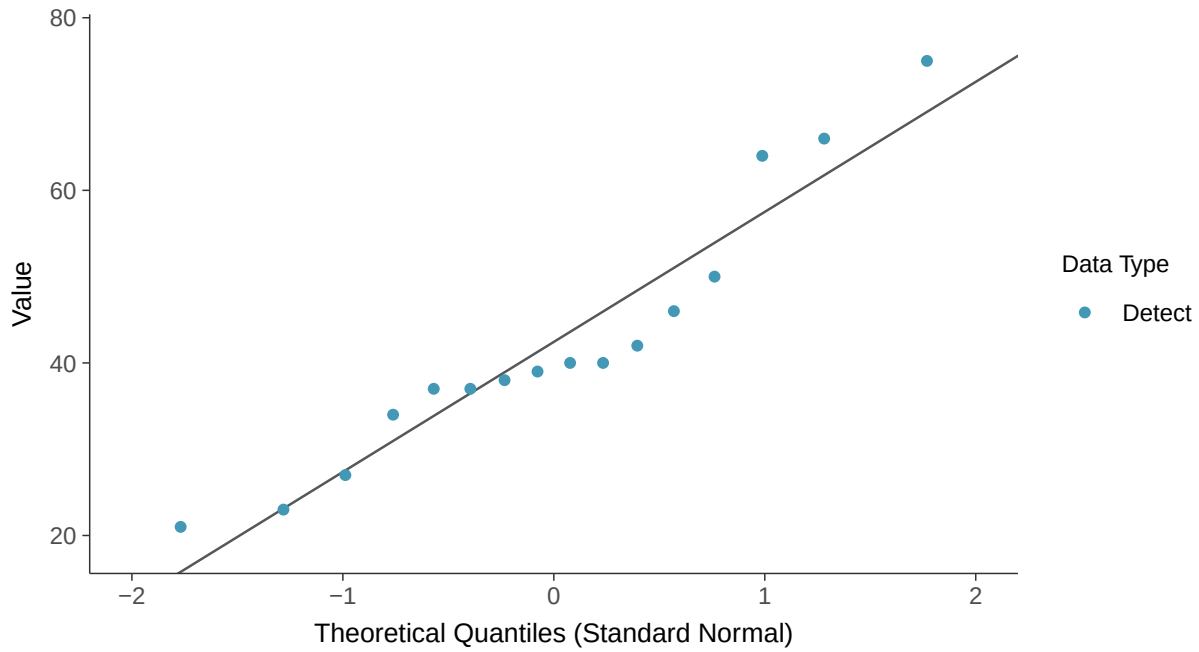
Boxplot by Season

Chloride (as Cl), MW-19 (mg/L)



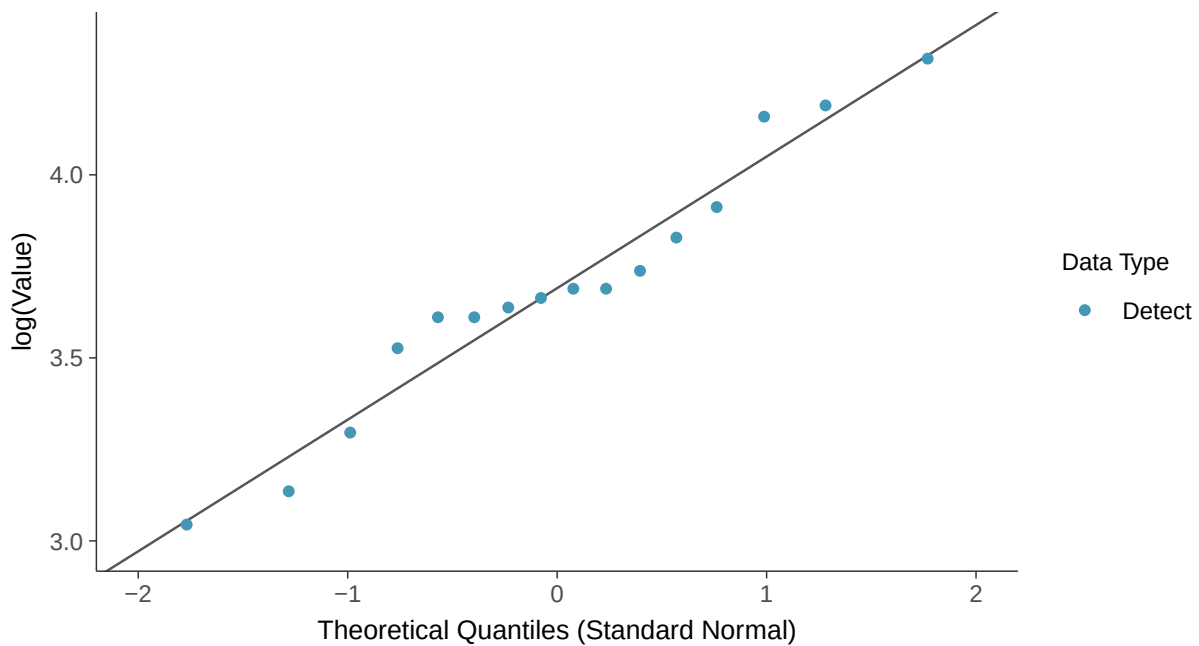
Normal Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



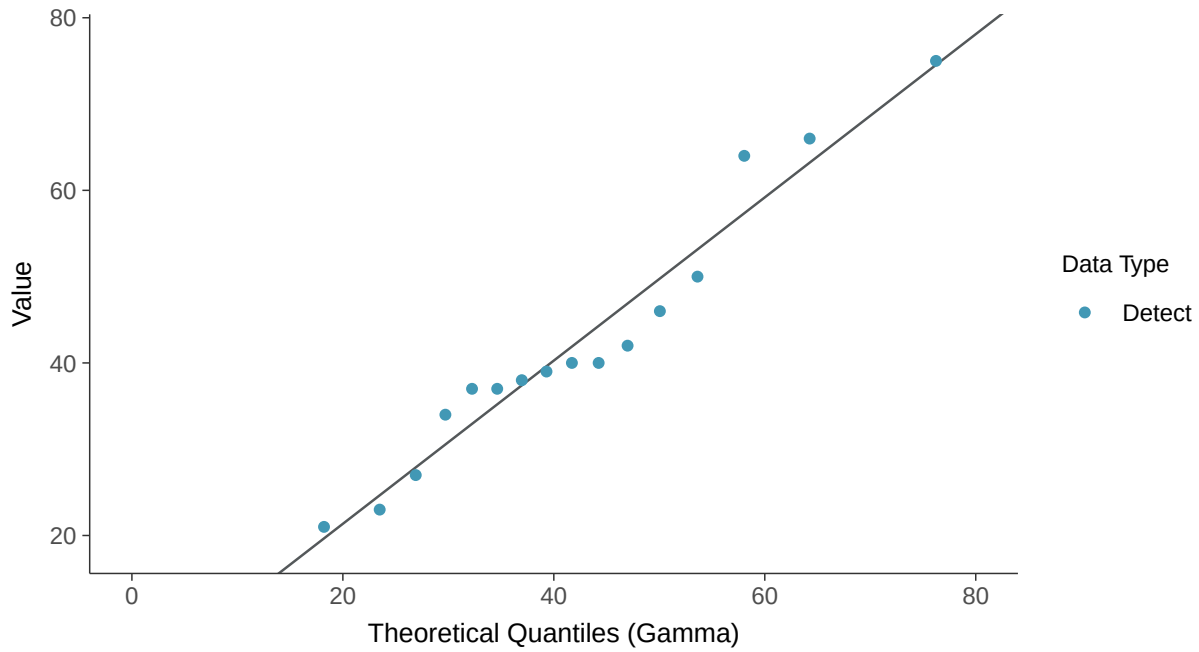
Lognormal Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



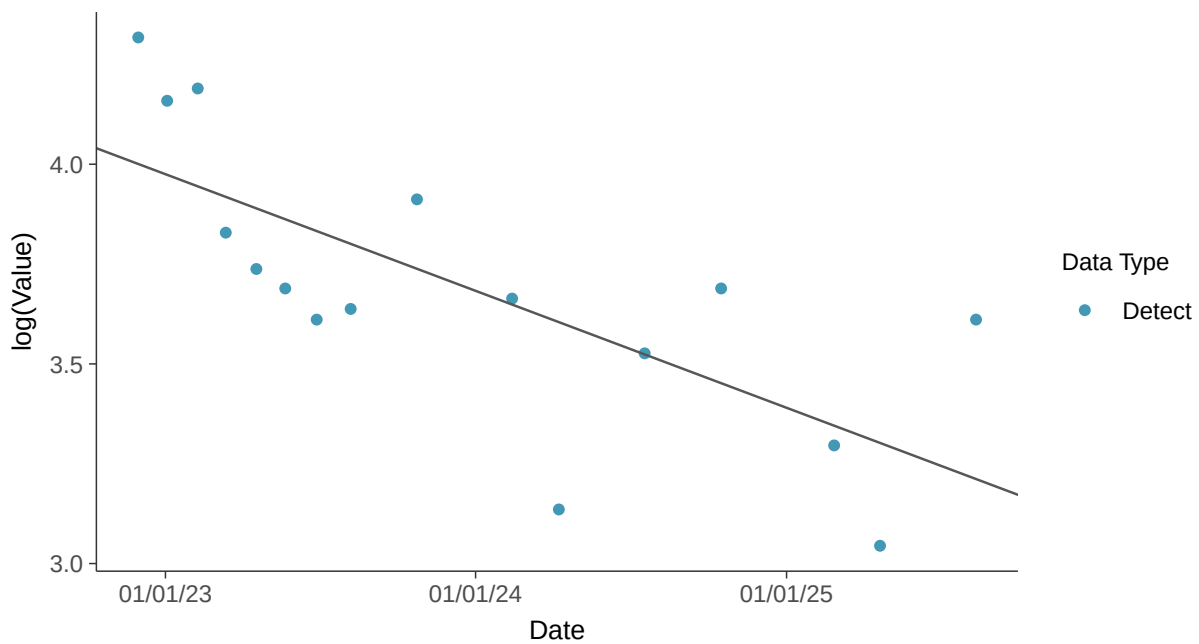
Gamma Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



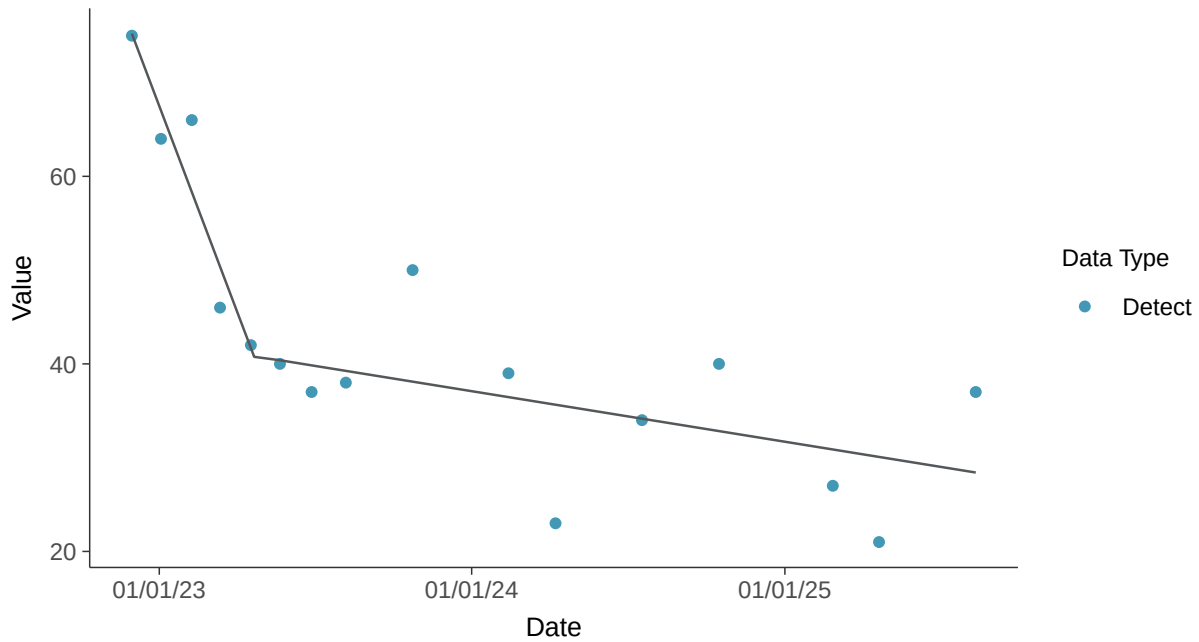
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-19 (mg/L)



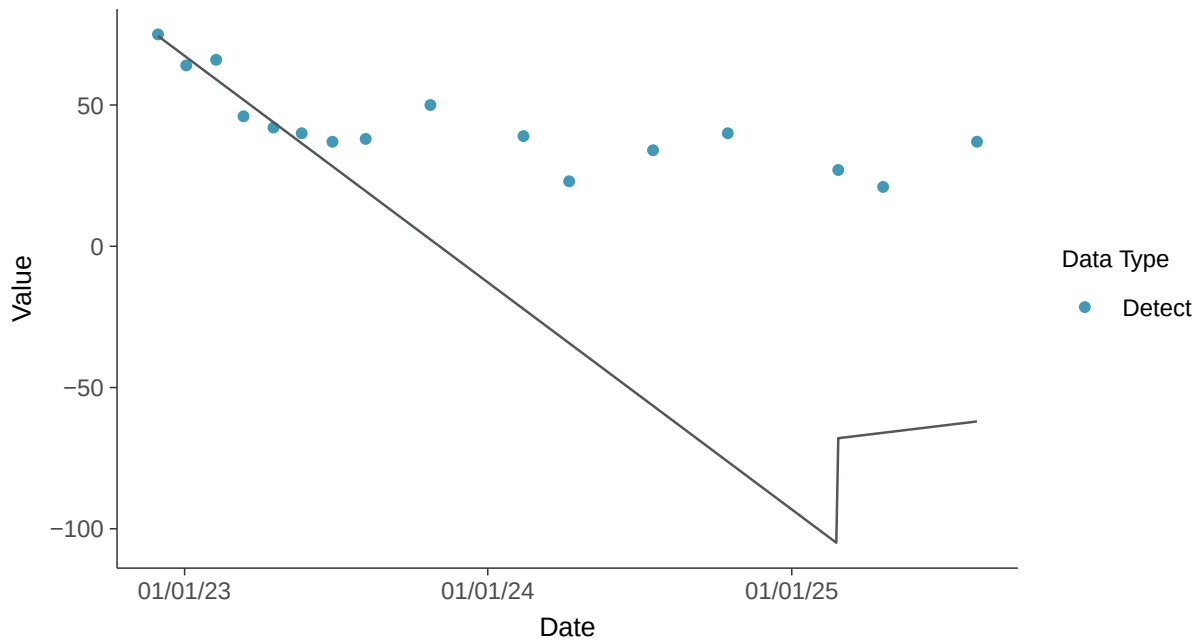
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-19 (mg/L)



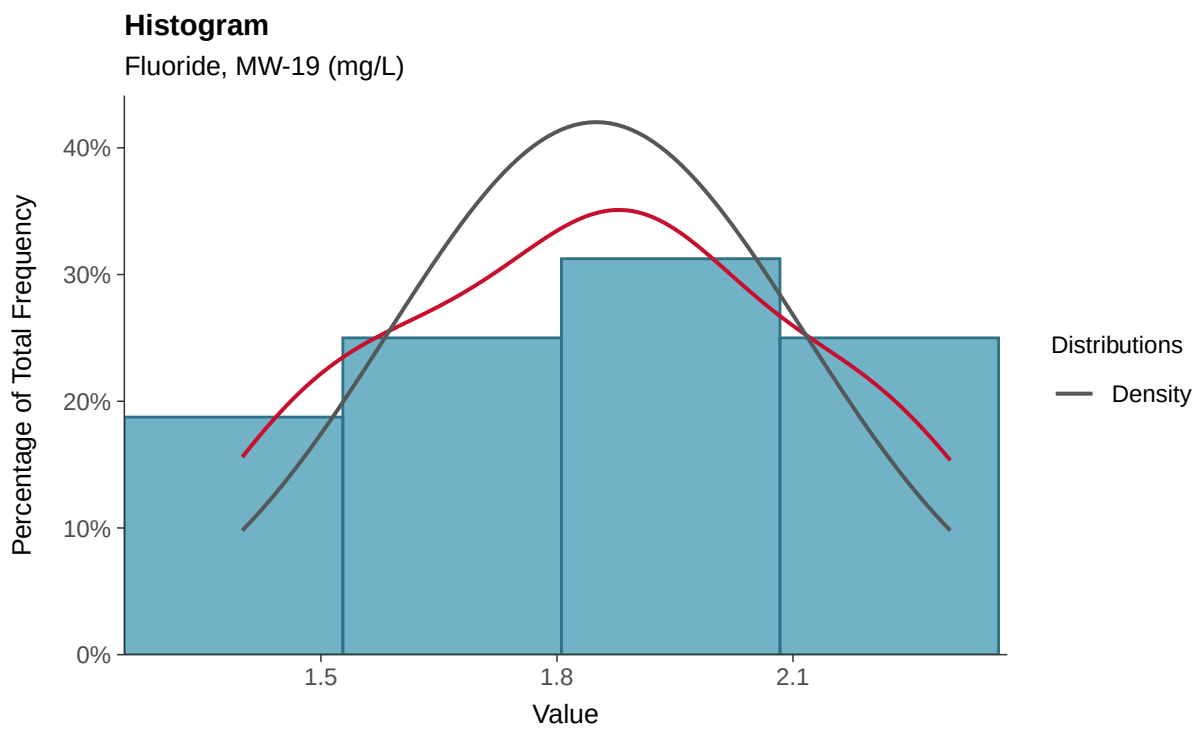
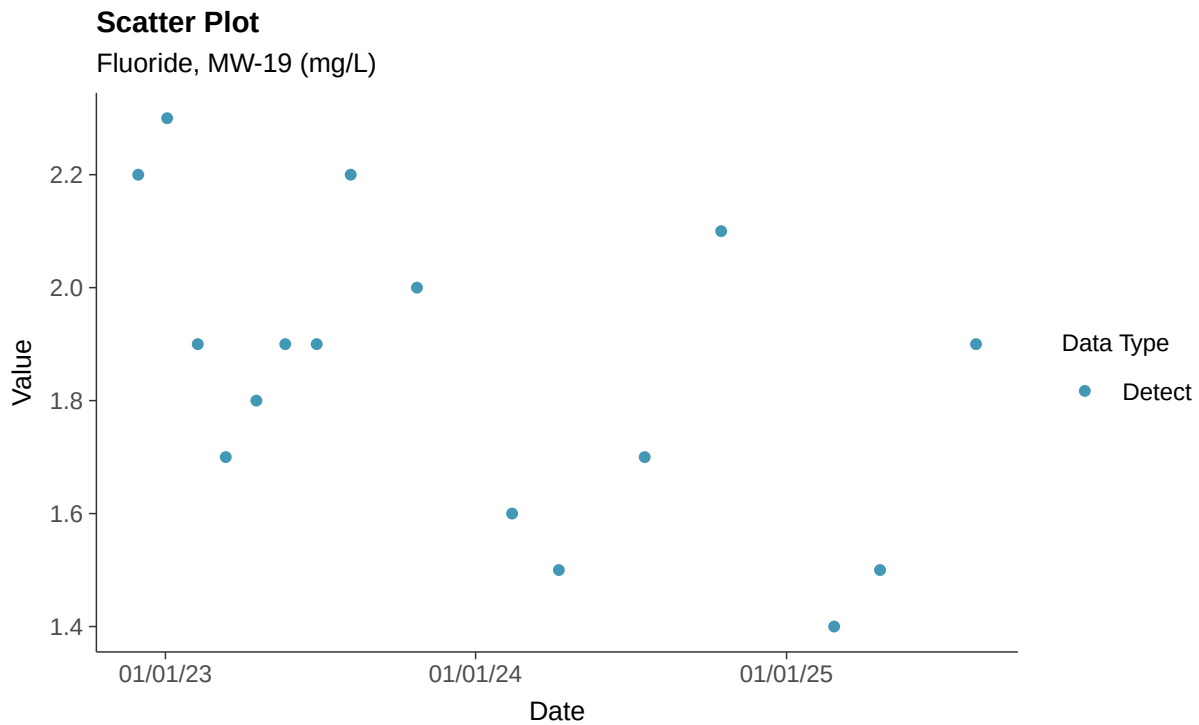
Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-19 (mg/L)



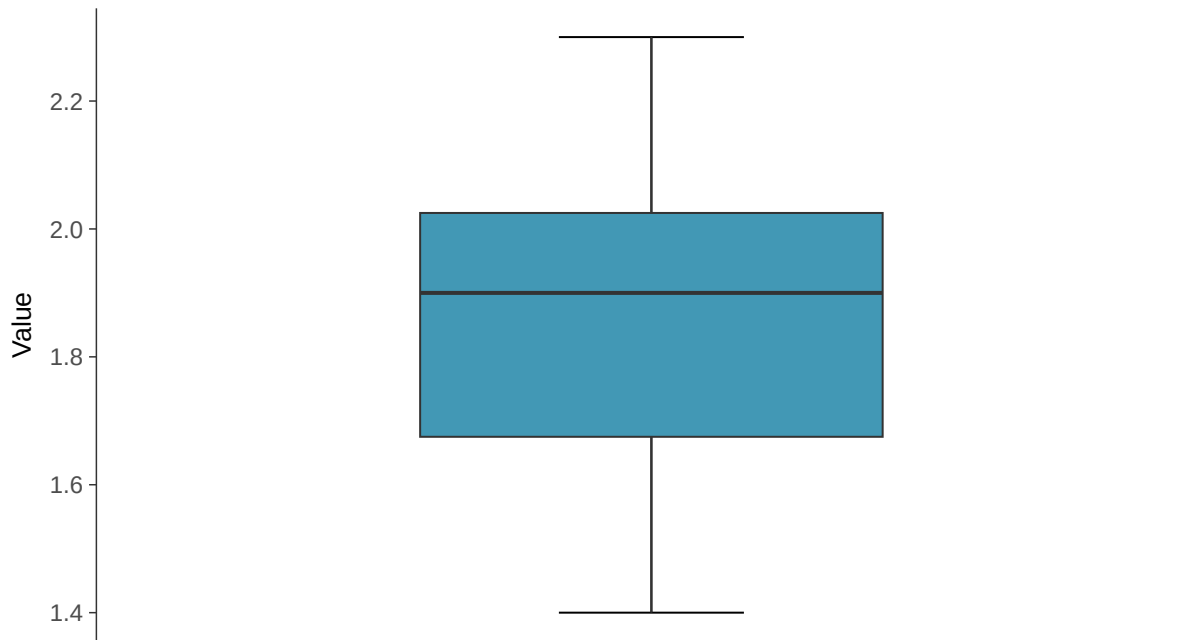
Appendix III: Fluoride, MW-19

ID: 29_1_3_112



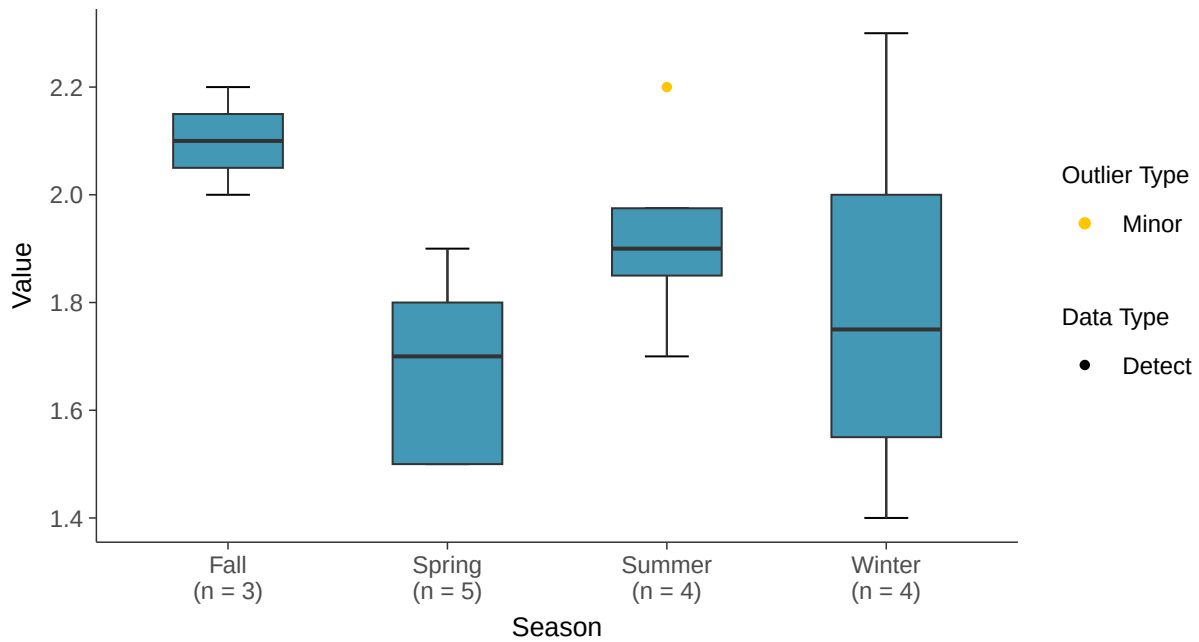
Boxplot

Fluoride, MW-19 (mg/L)



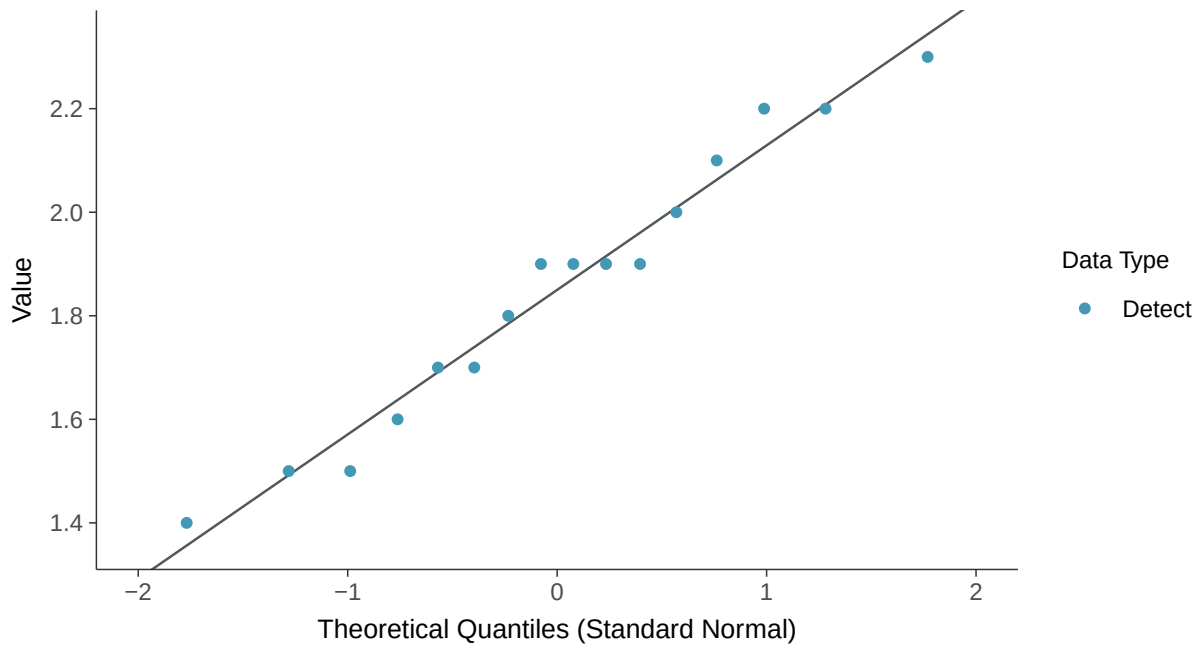
Boxplot by Season

Fluoride, MW-19 (mg/L)



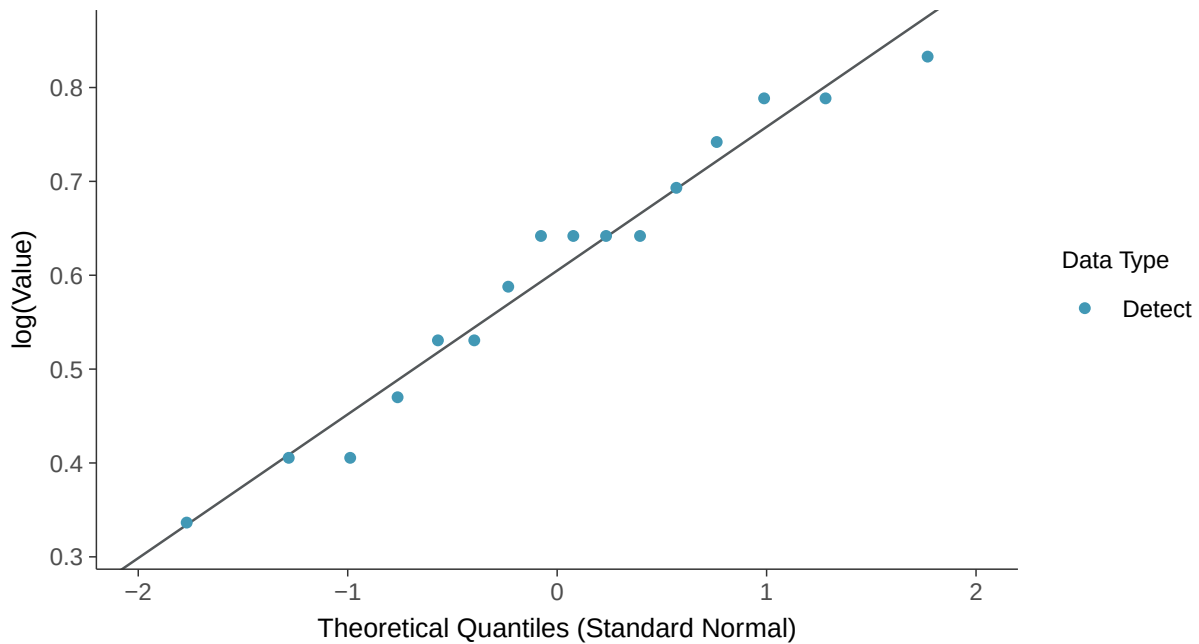
Normal Q-Q plot

Fluoride, MW-19 (mg/L)



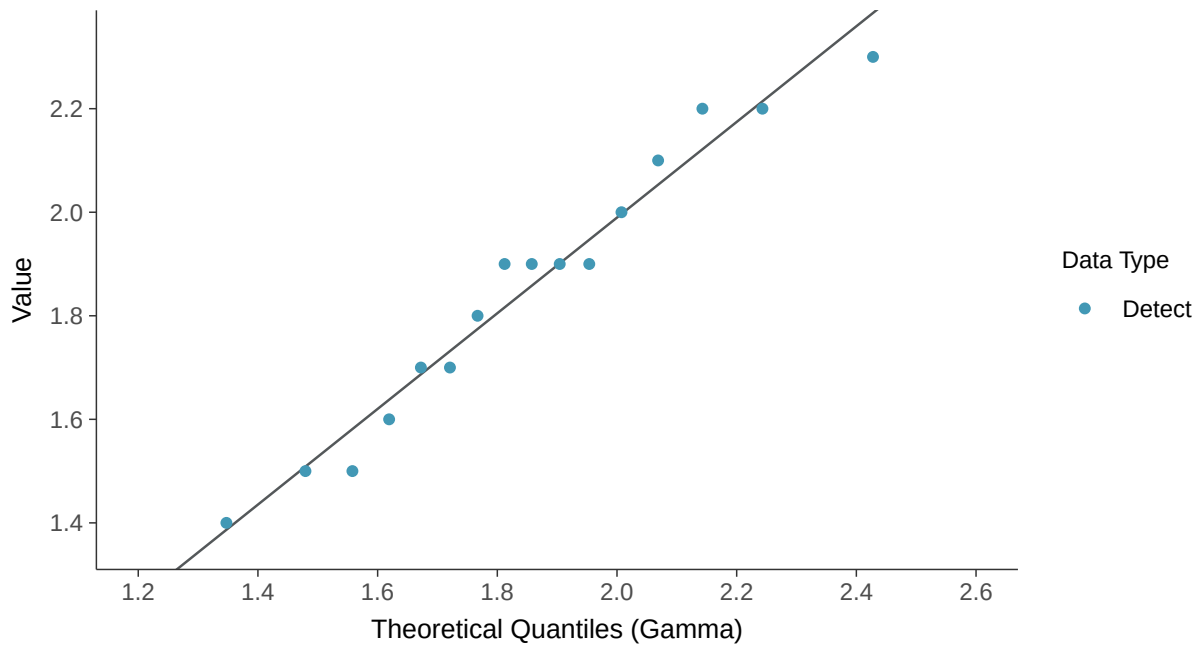
Lognormal Q-Q plot

Fluoride, MW-19 (mg/L)



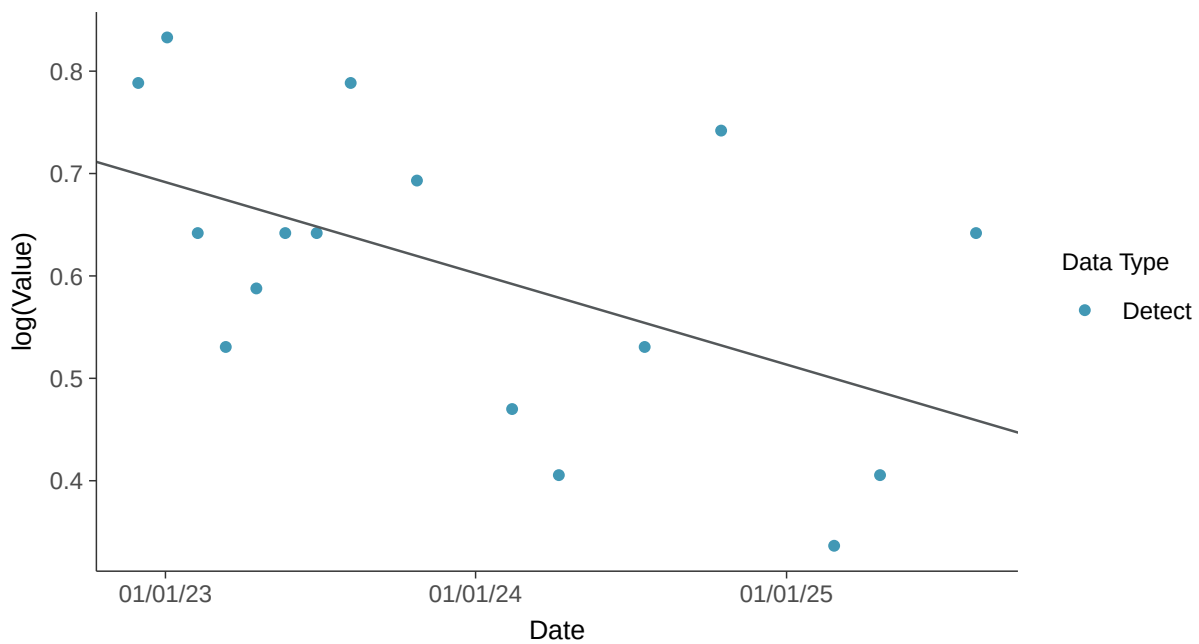
Gamma Q-Q plot

Fluoride, MW-19 (mg/L)



Trend Regression: Lognormal MLE

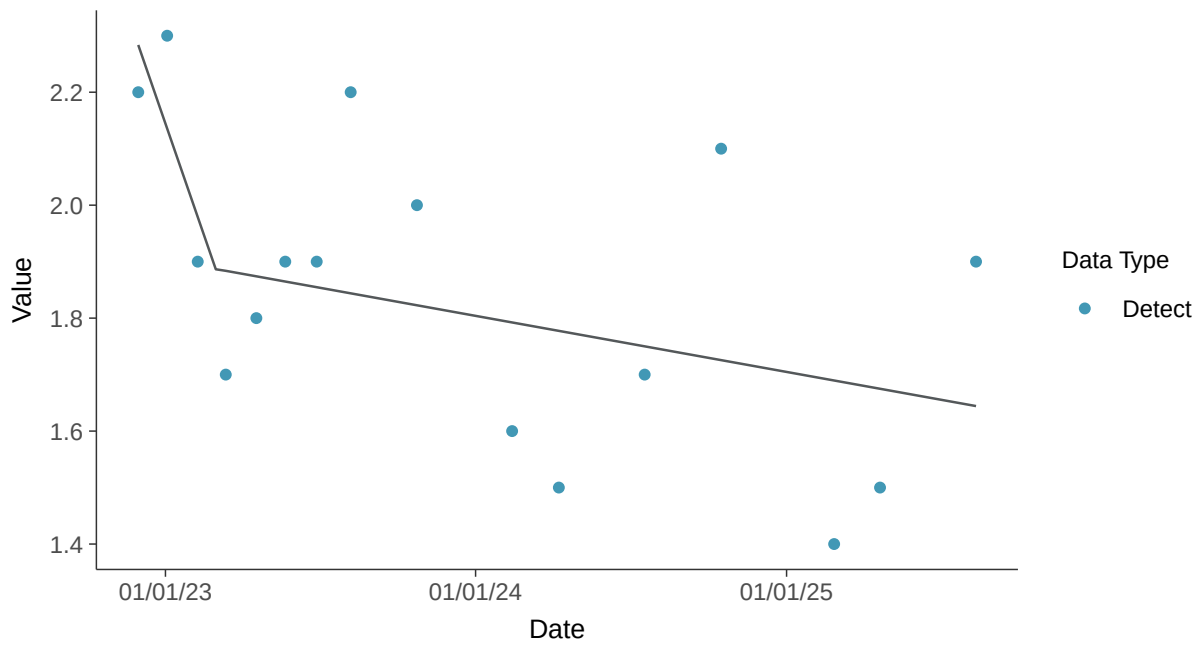
Fluoride, MW-19 (mg/L)





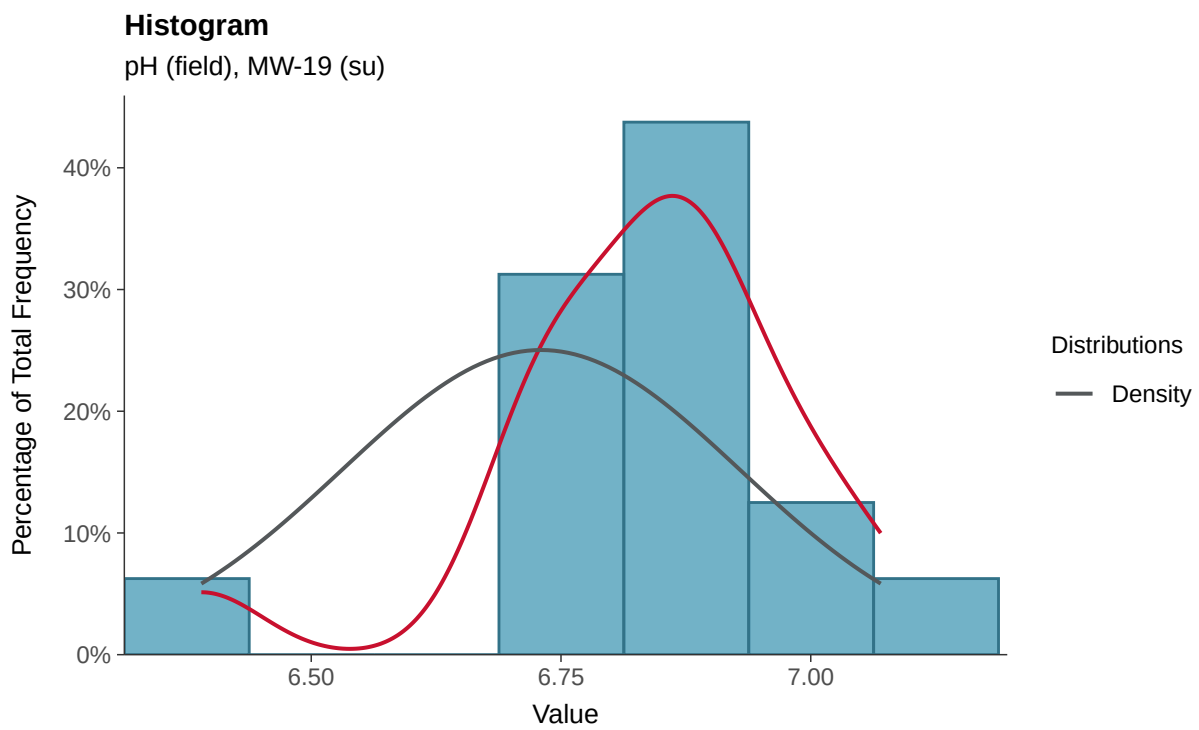
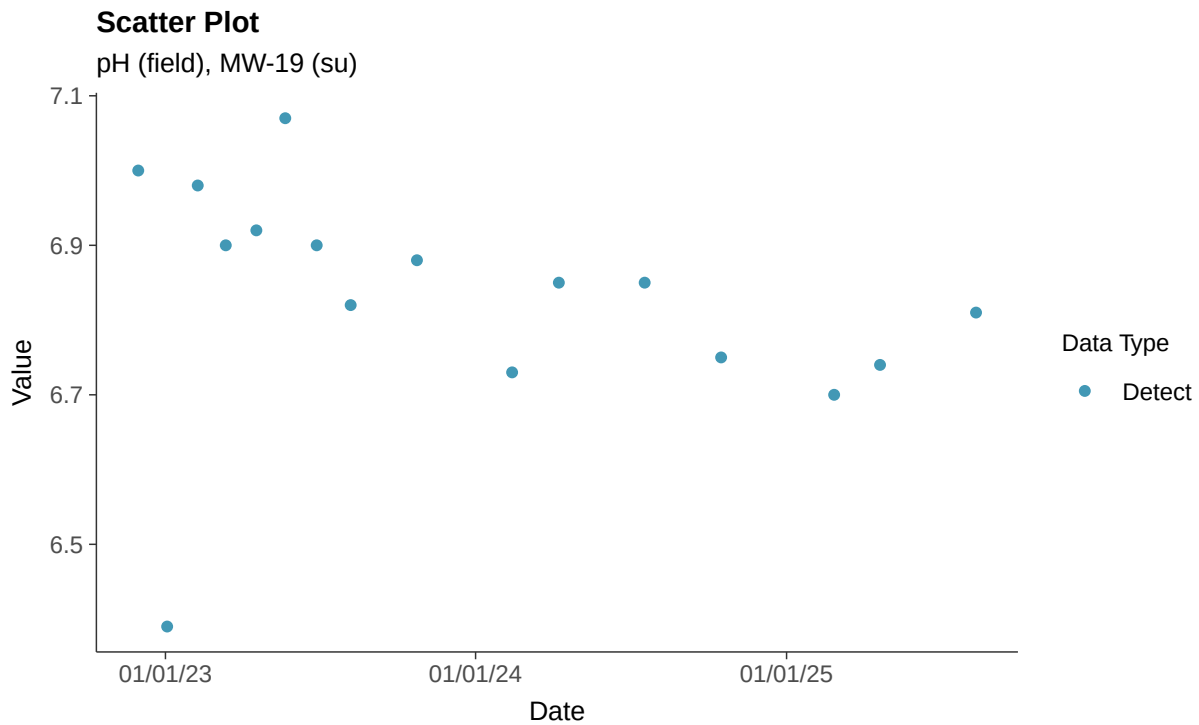
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-19 (mg/L)



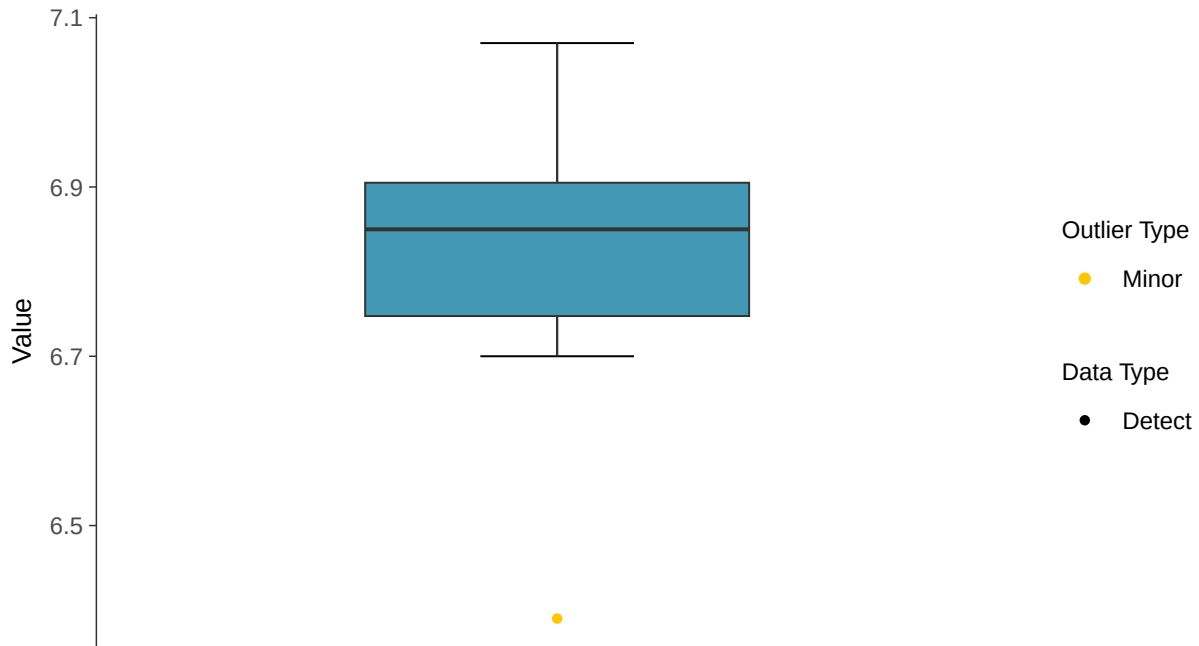
Appendix III: pH (field), MW-19

ID: 29_1_3_120



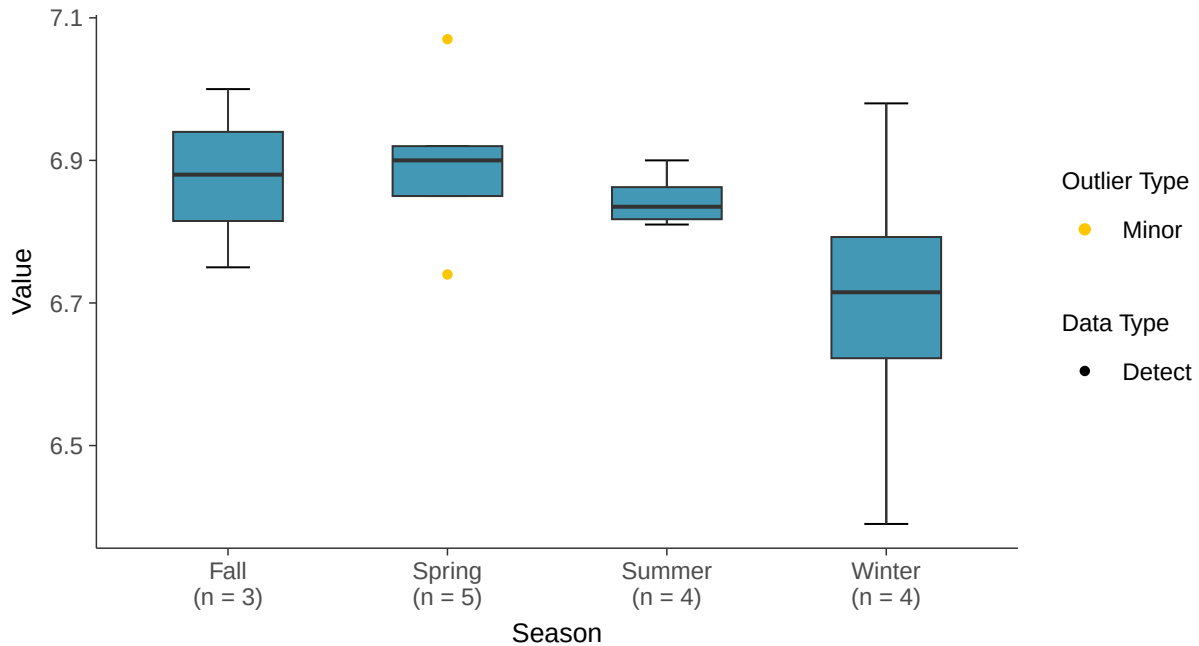
Boxplot

pH (field), MW-19 (su)



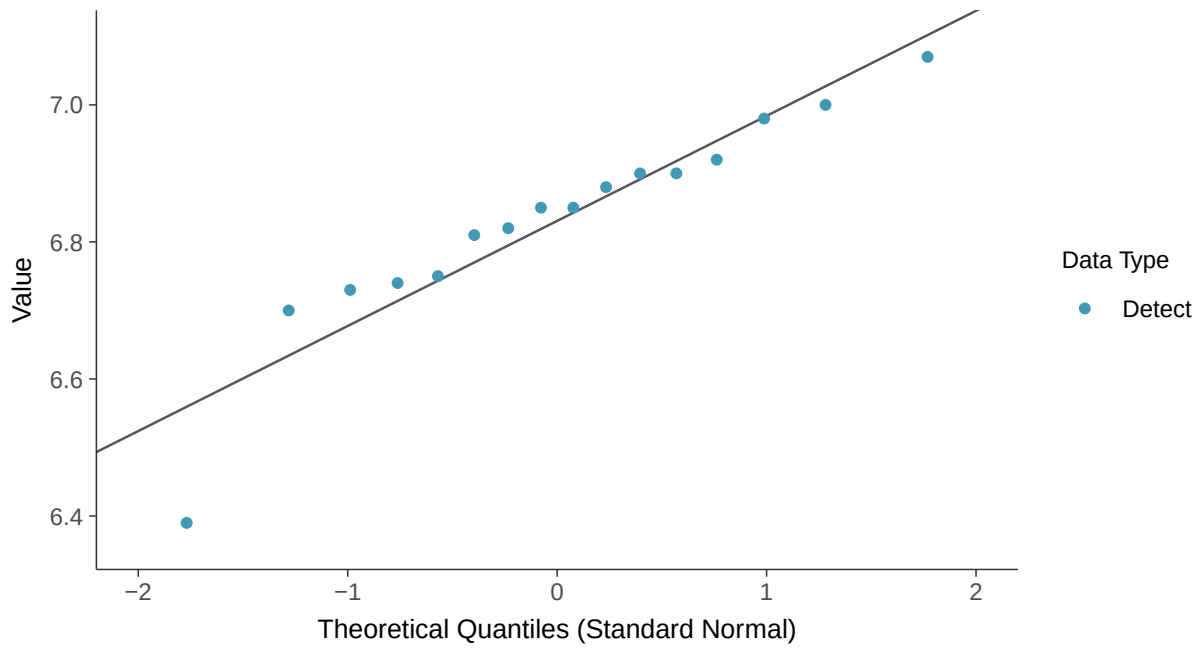
Boxplot by Season

pH (field), MW-19 (su)



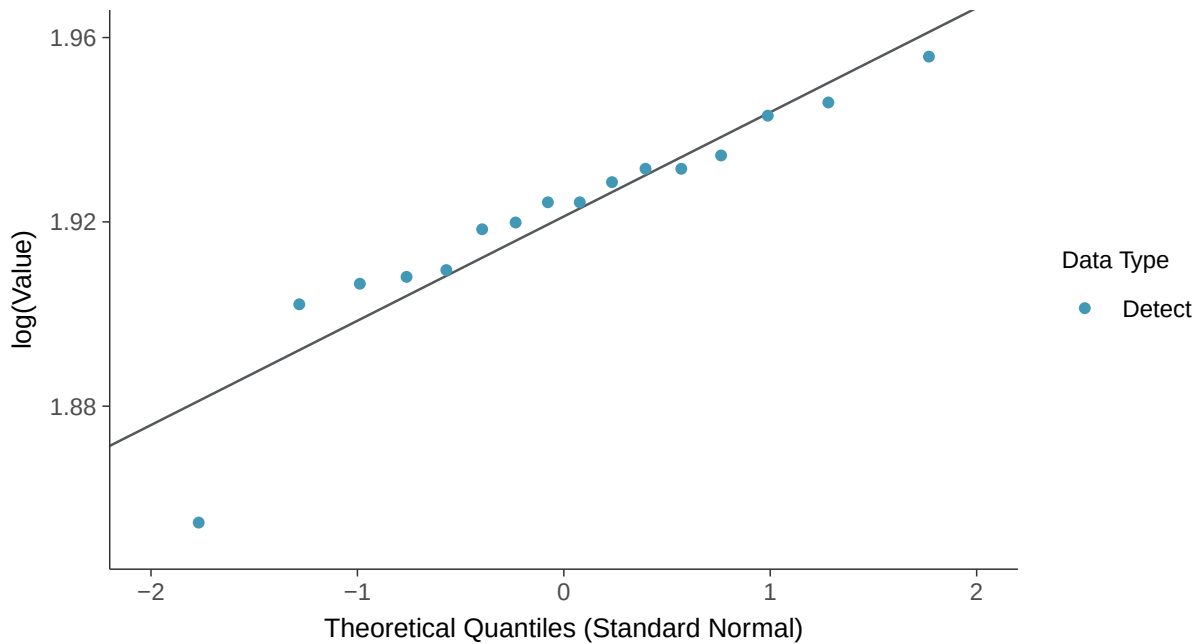
Normal Q-Q plot

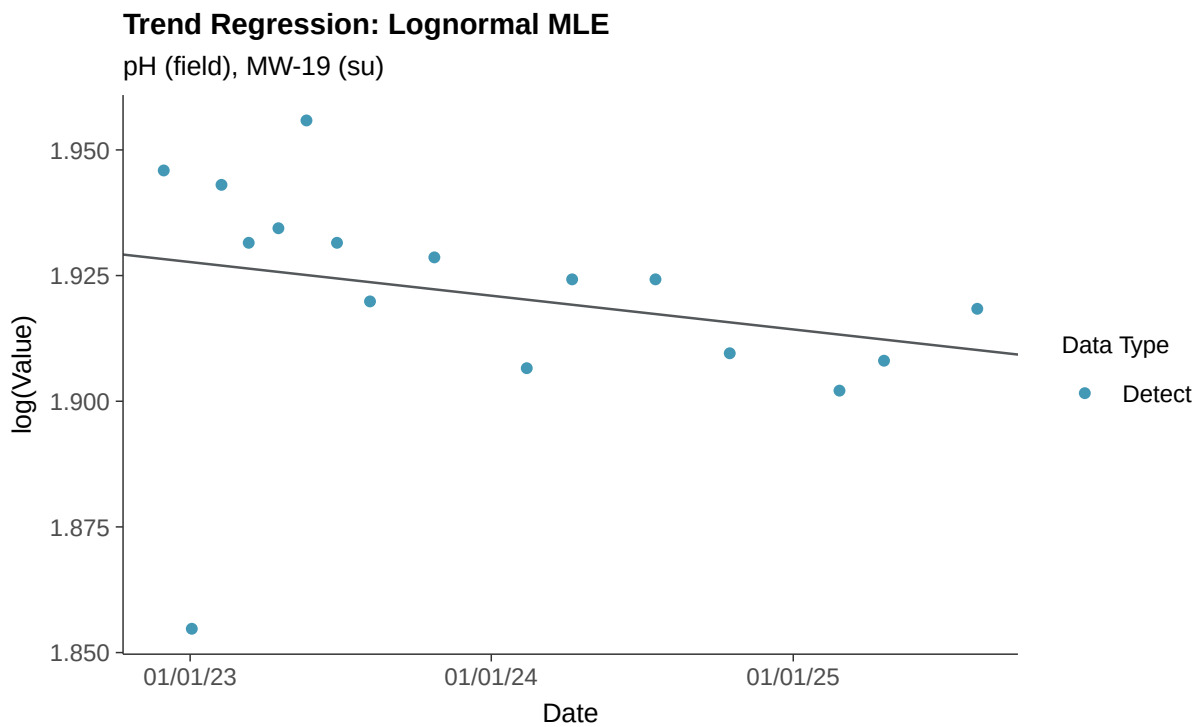
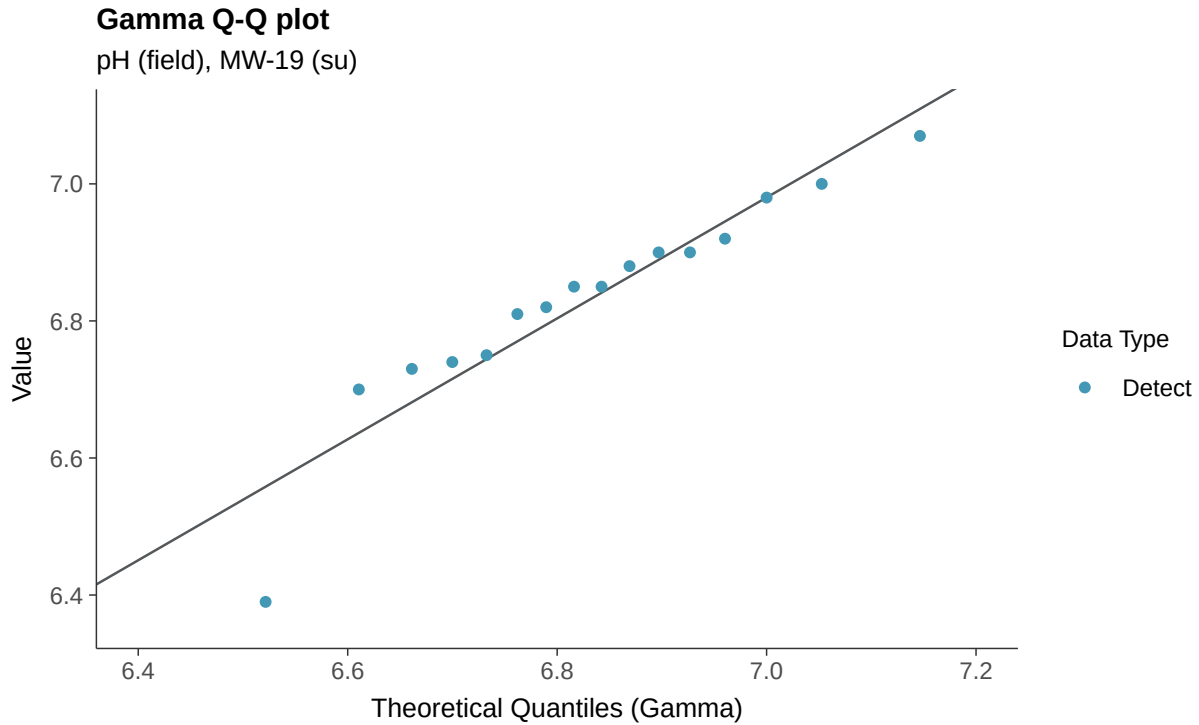
pH (field), MW-19 (su)



Lognormal Q-Q plot

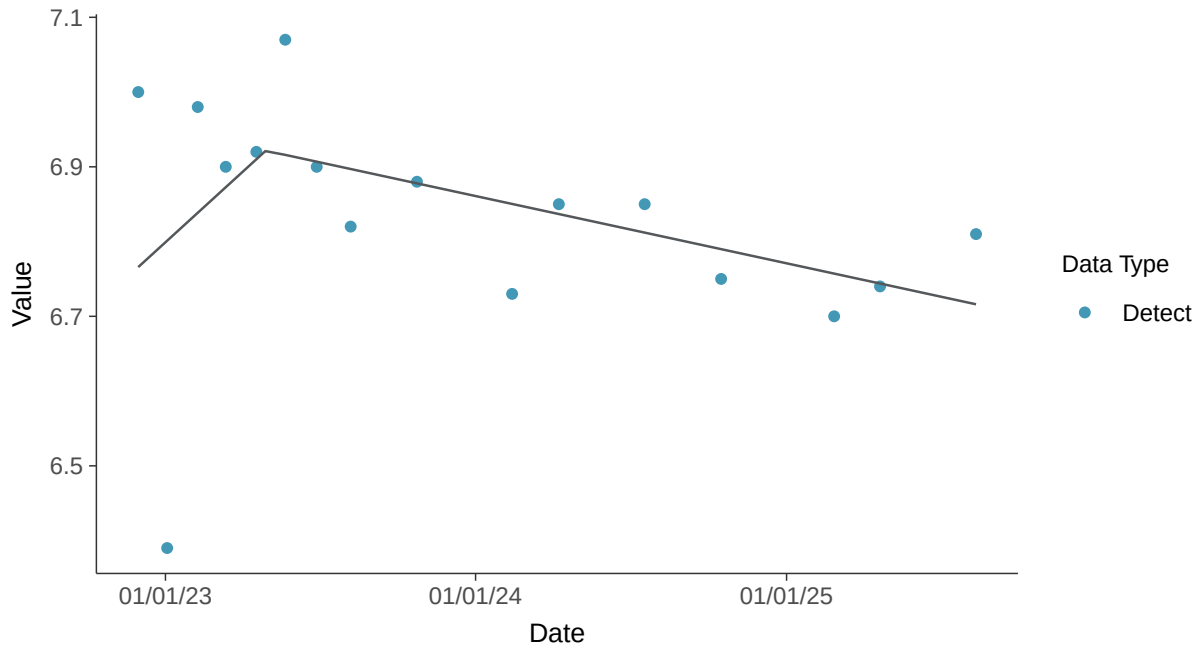
pH (field), MW-19 (su)





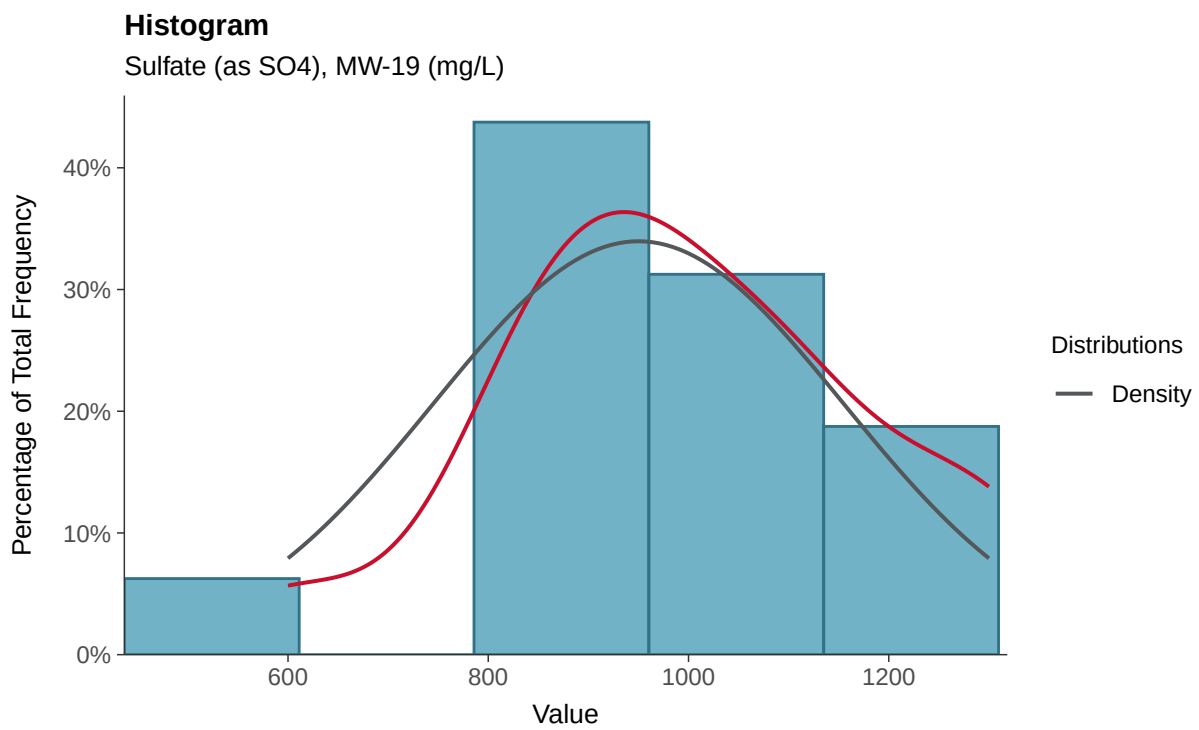
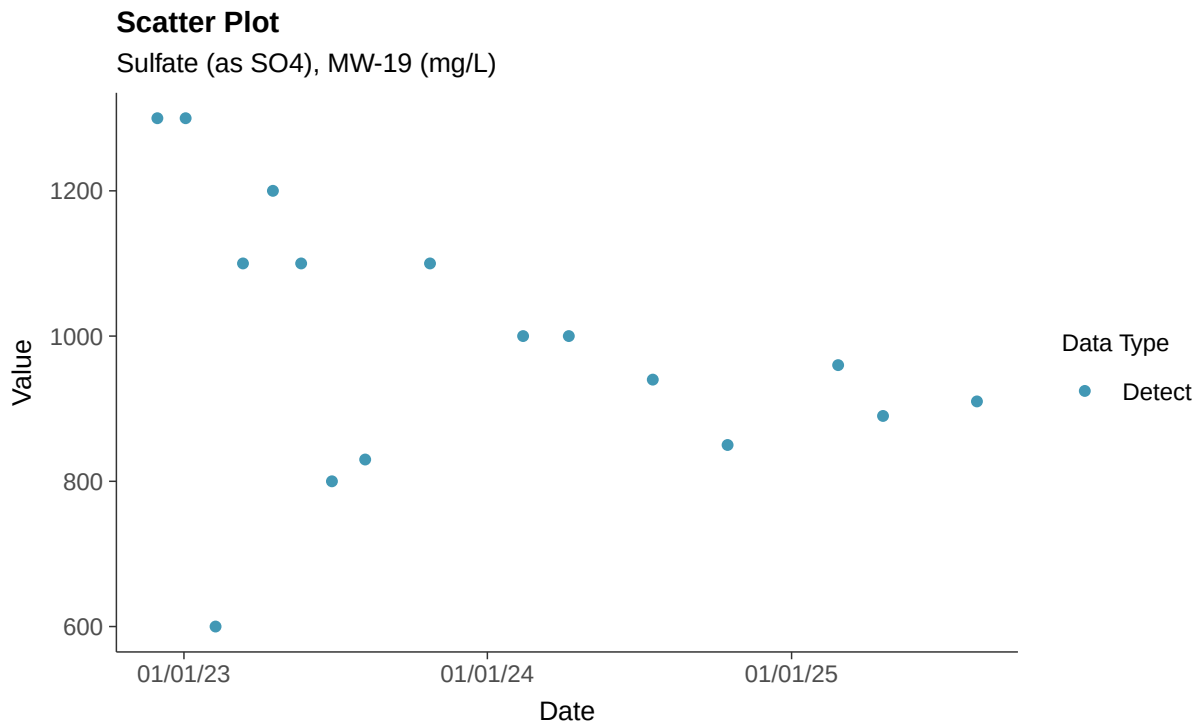
Trend Regression: Piecewise Linear-Linear

pH (field), MW-19 (su)



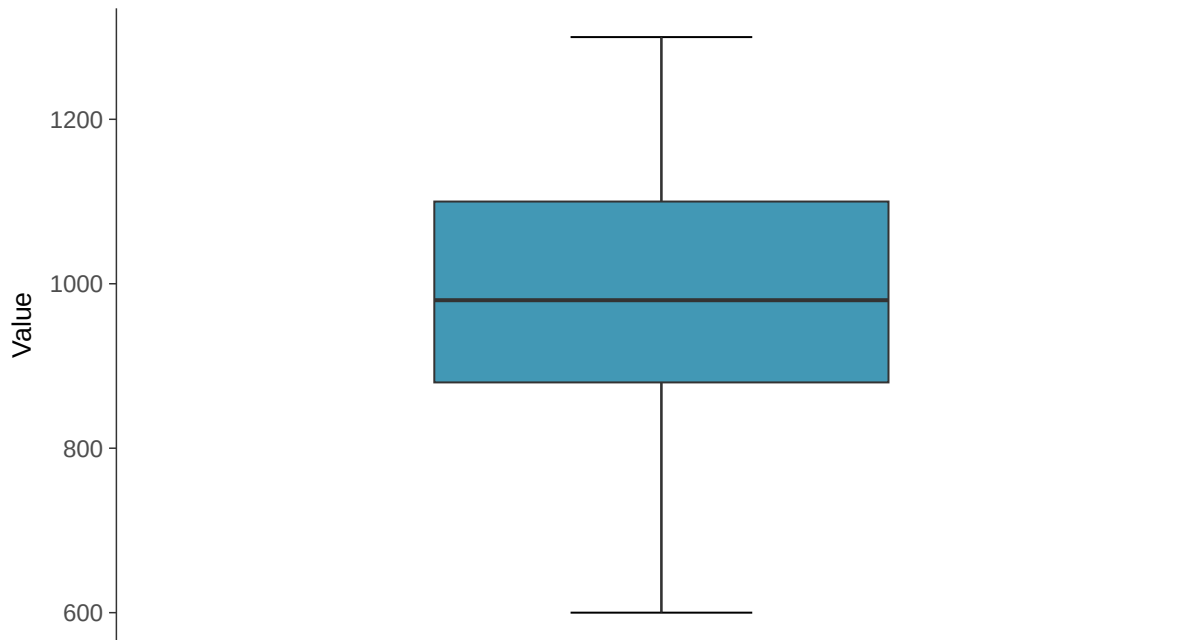
Appendix III: Sulfate (as SO₄), MW-19

ID: 29_1_3_124



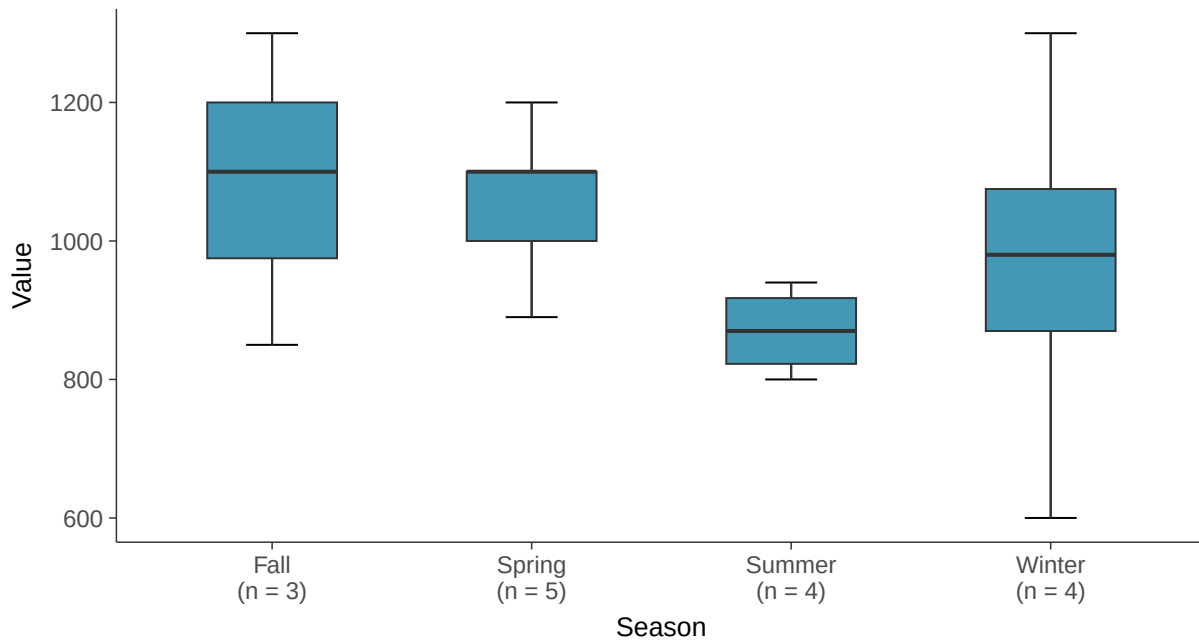
Boxplot

Sulfate (as SO₄), MW-19 (mg/L)



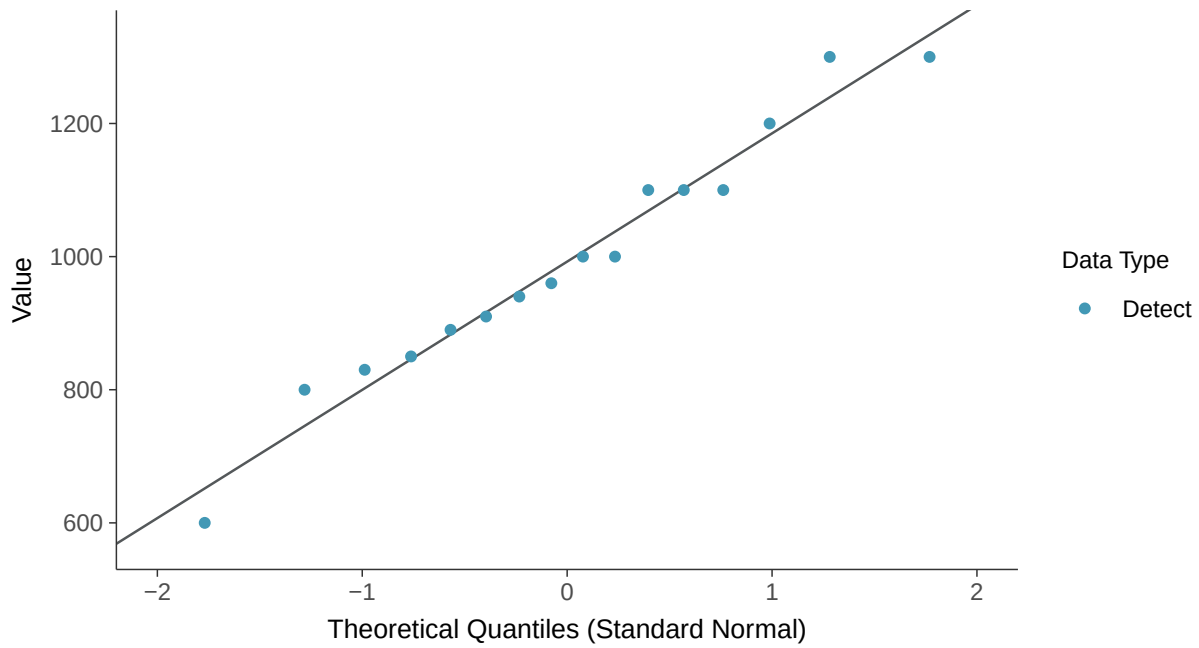
Boxplot by Season

Sulfate (as SO₄), MW-19 (mg/L)



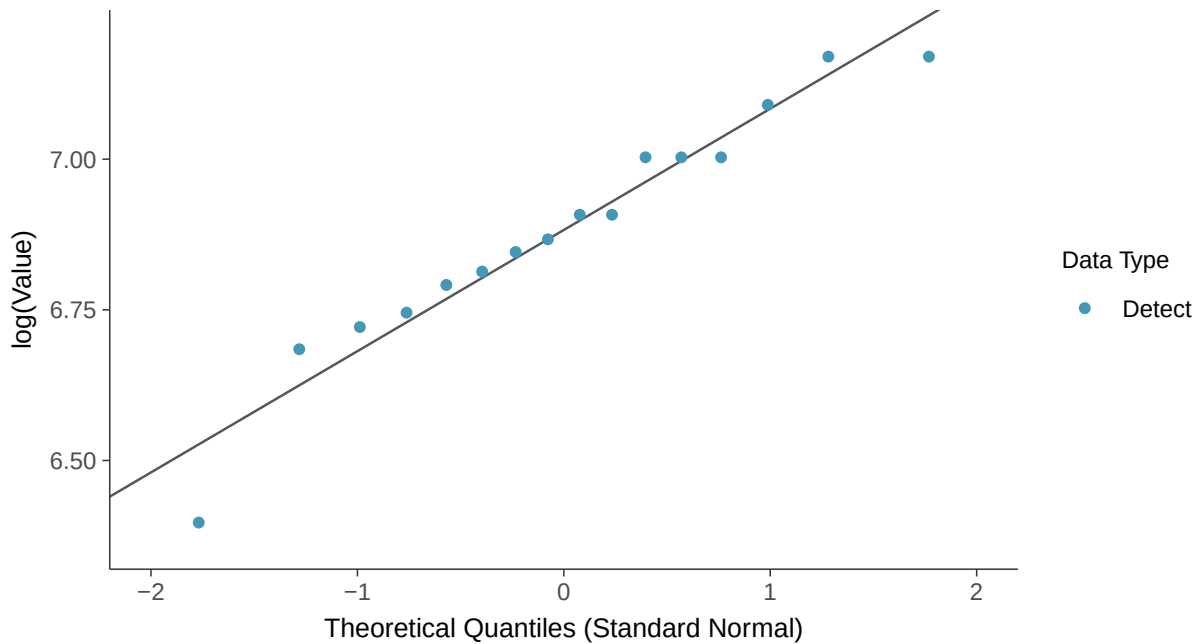
Normal Q-Q plot

Sulfate (as SO₄), MW-19 (mg/L)



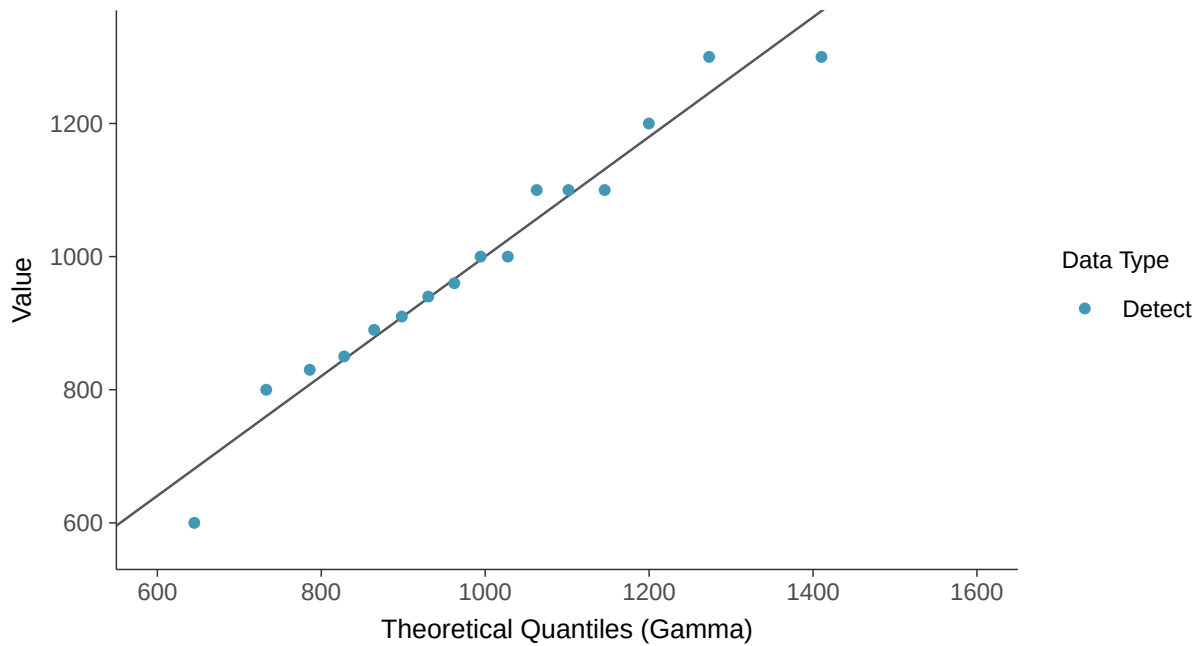
Lognormal Q-Q plot

Sulfate (as SO₄), MW-19 (mg/L)



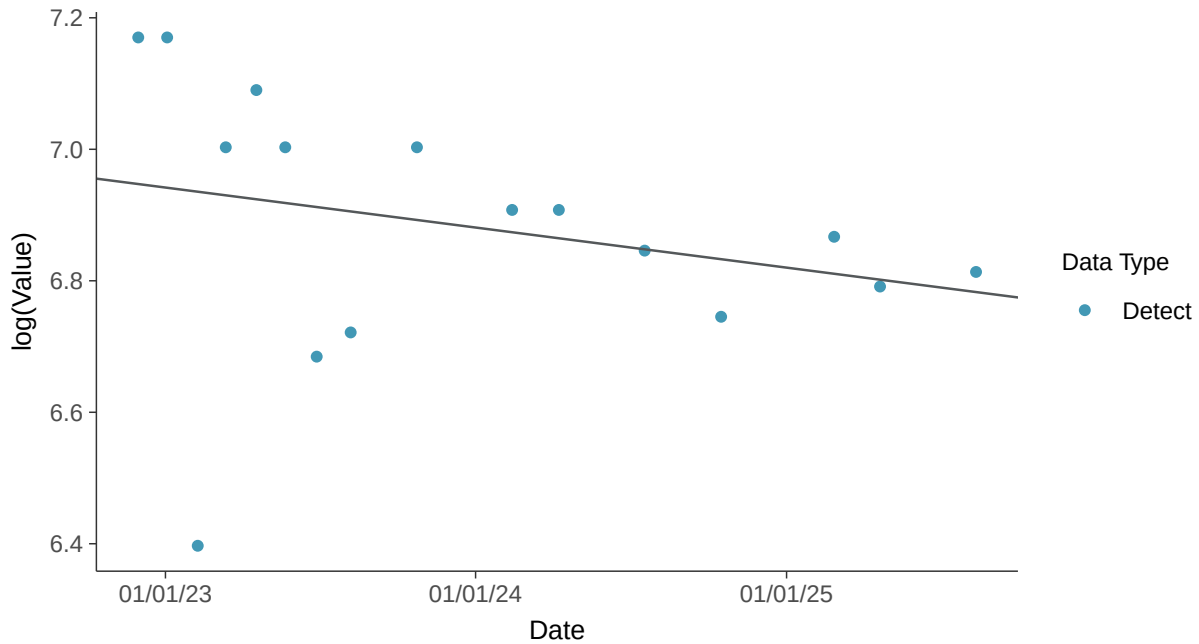
Gamma Q-Q plot

Sulfate (as SO₄), MW-19 (mg/L)



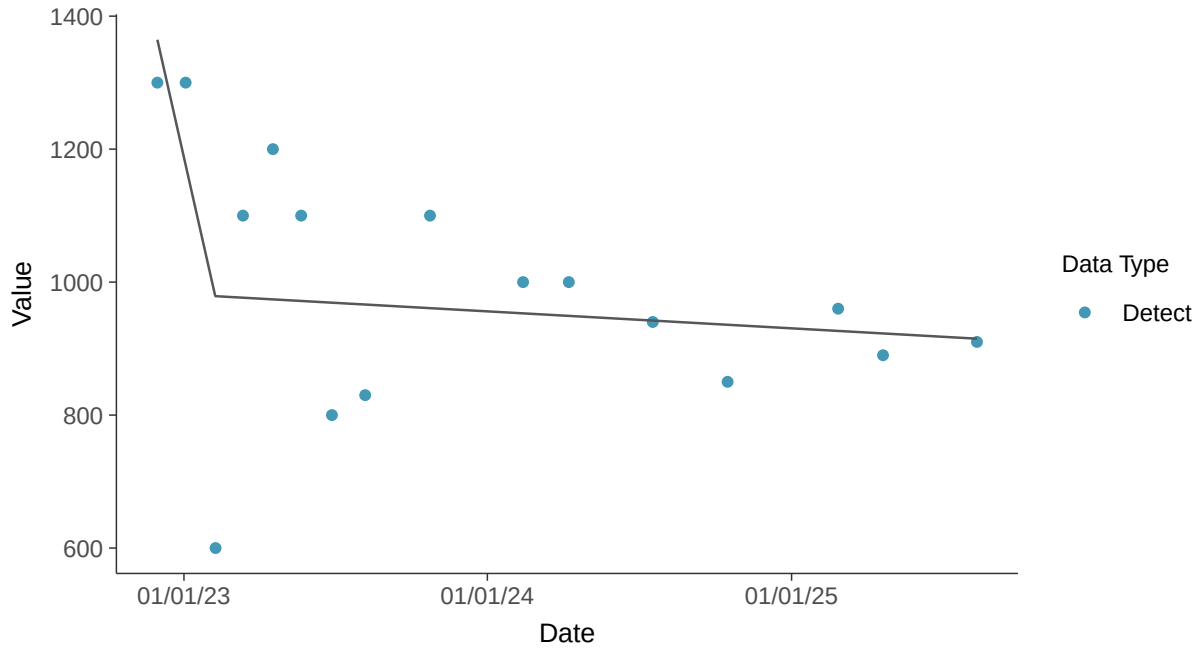
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-19 (mg/L)



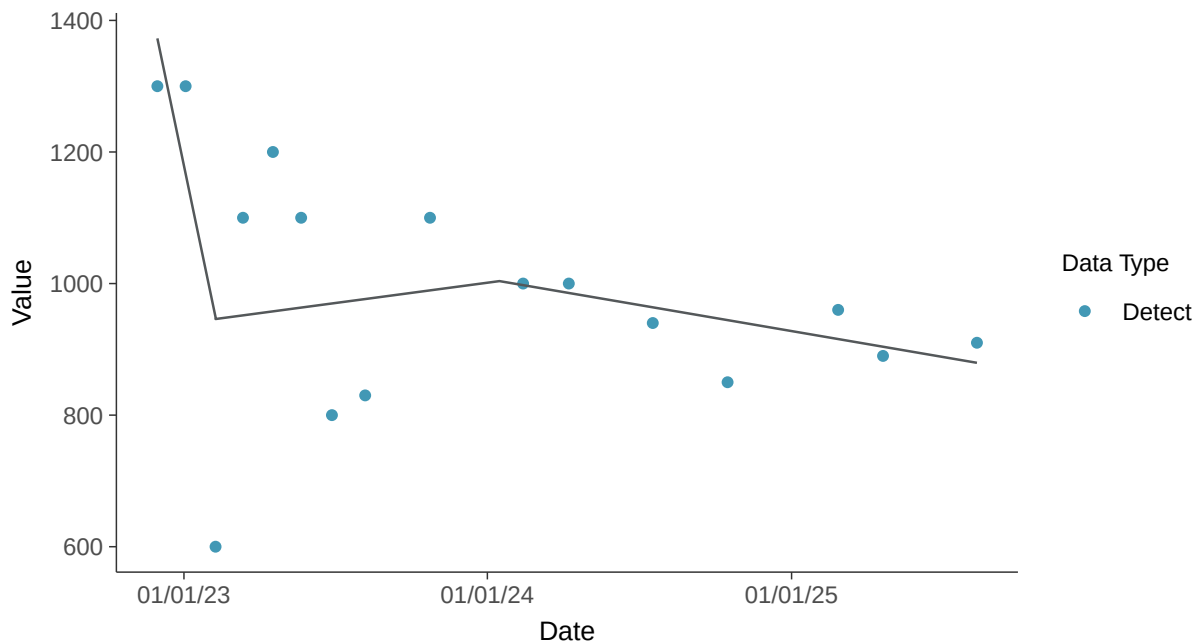
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-19 (mg/L)

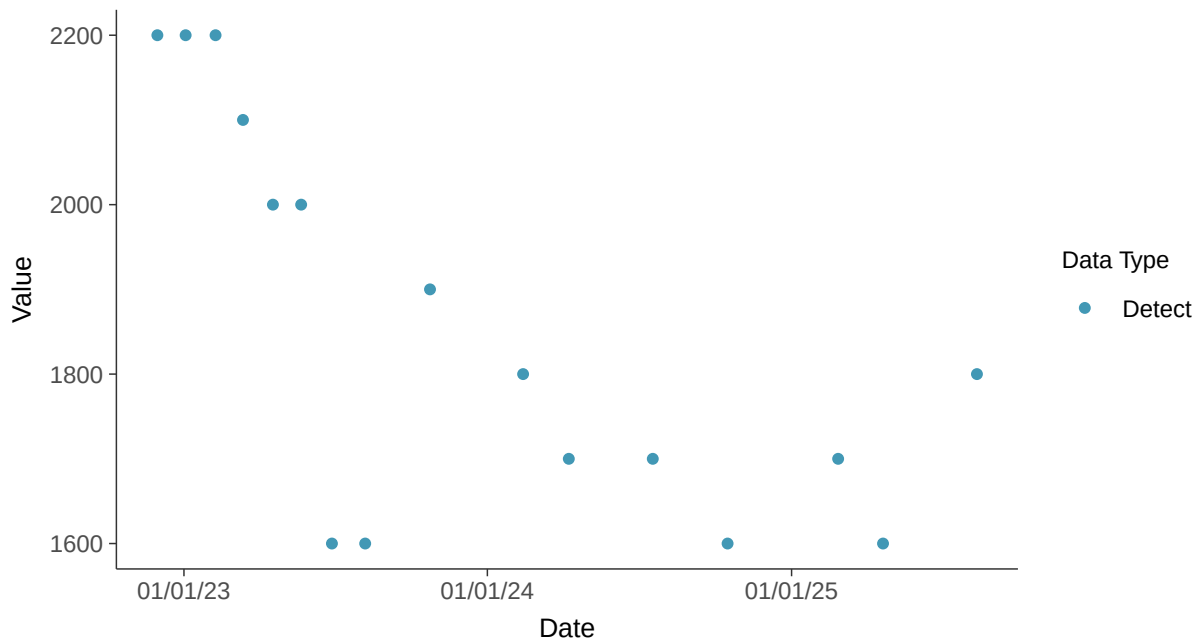


Appendix III: Total Dissolved Solids, MW-19

ID: 29_1_3_126

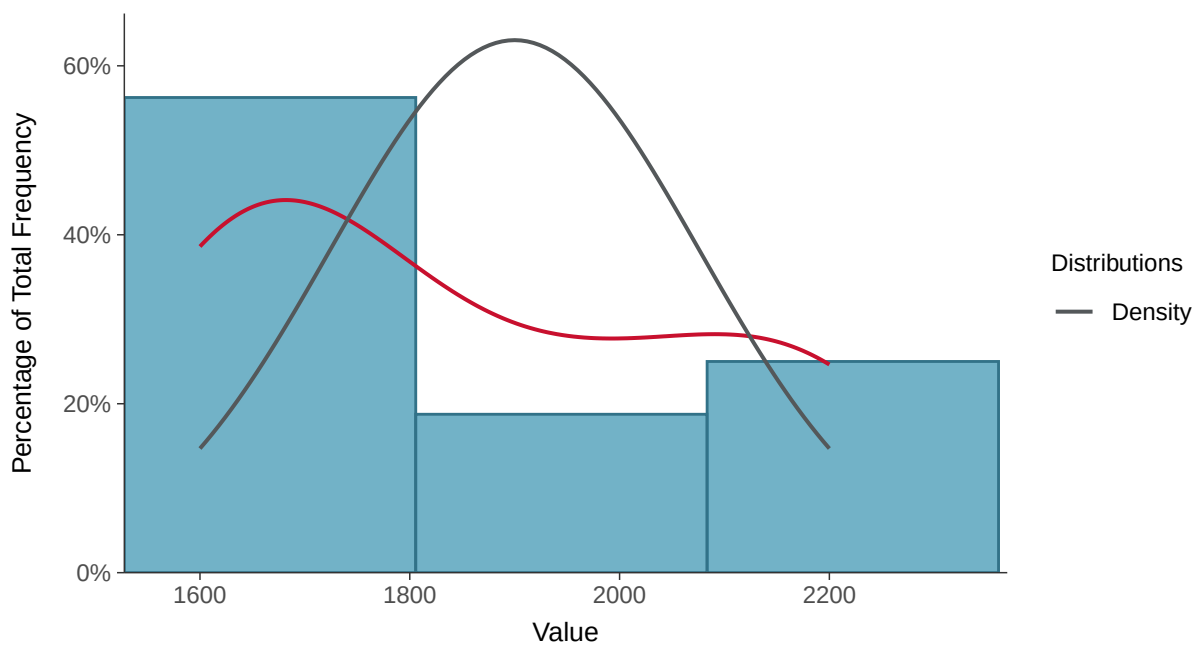
Scatter Plot

Total Dissolved Solids, MW-19 (mg/L)



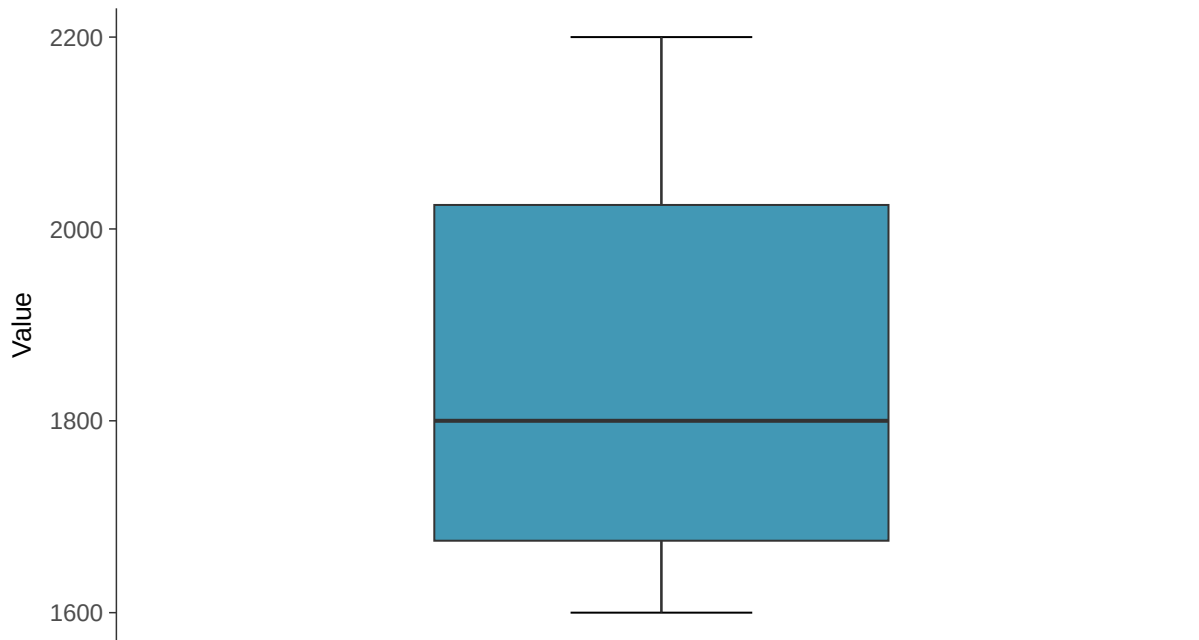
Histogram

Total Dissolved Solids, MW-19 (mg/L)



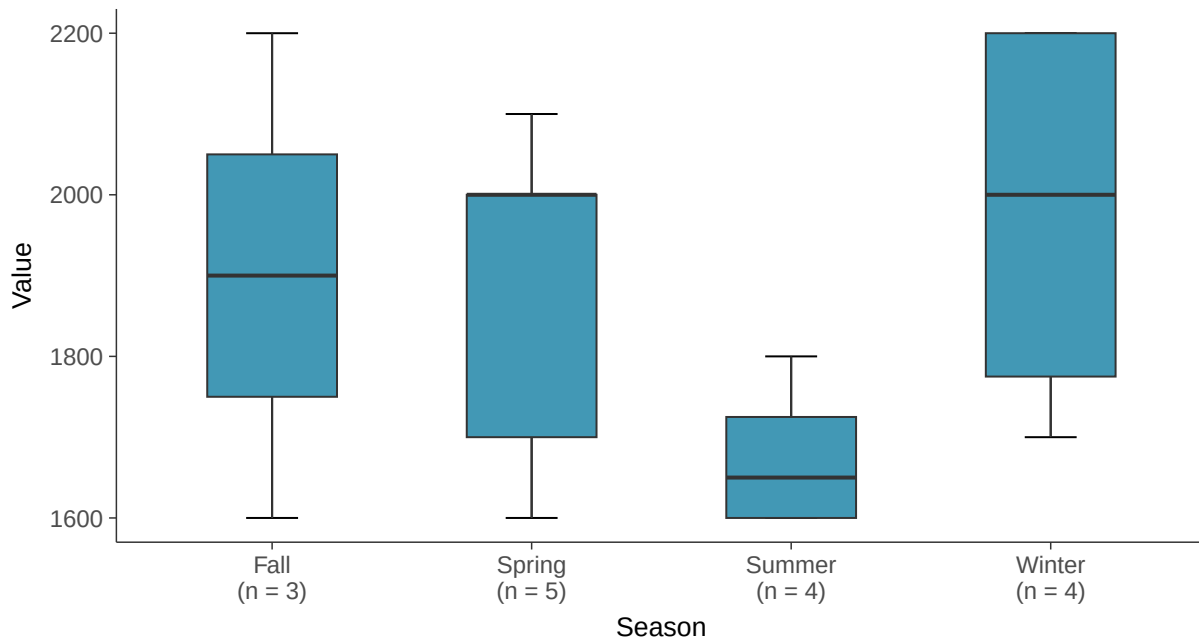
Boxplot

Total Dissolved Solids, MW-19 (mg/L)



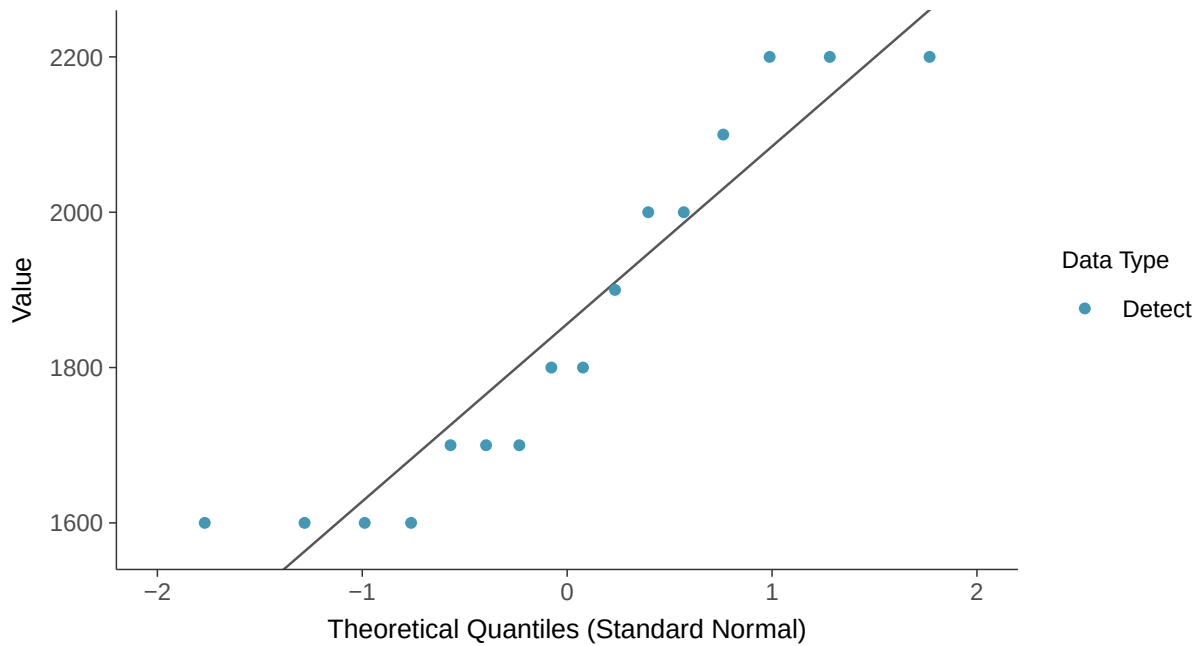
Boxplot by Season

Total Dissolved Solids, MW-19 (mg/L)



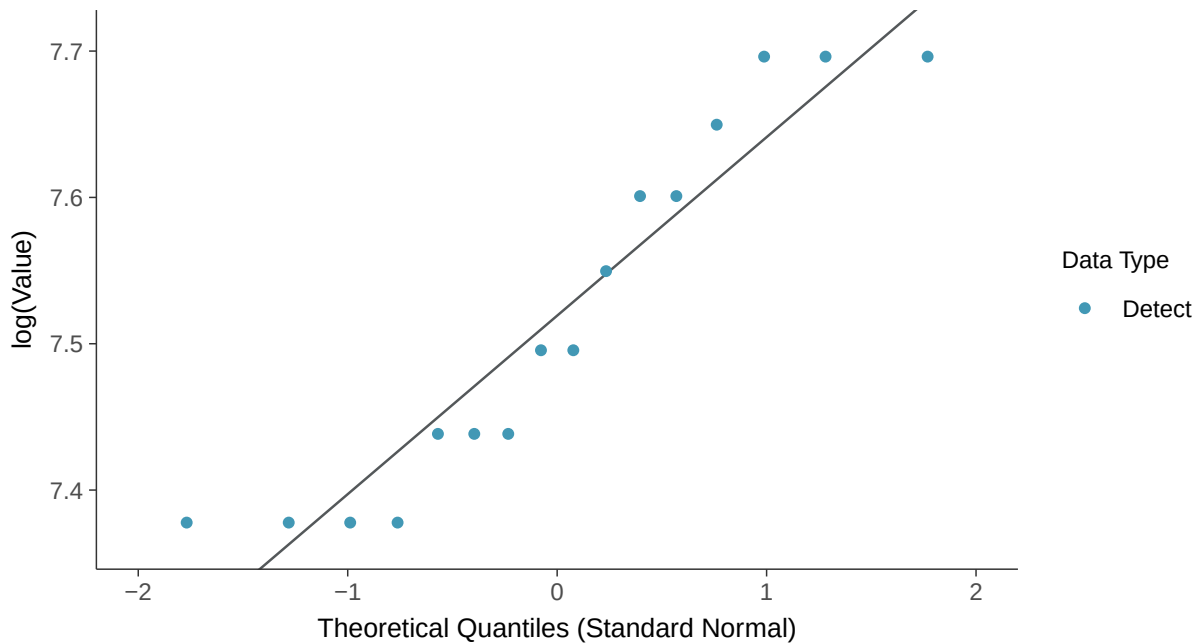
Normal Q-Q plot

Total Dissolved Solids, MW-19 (mg/L)



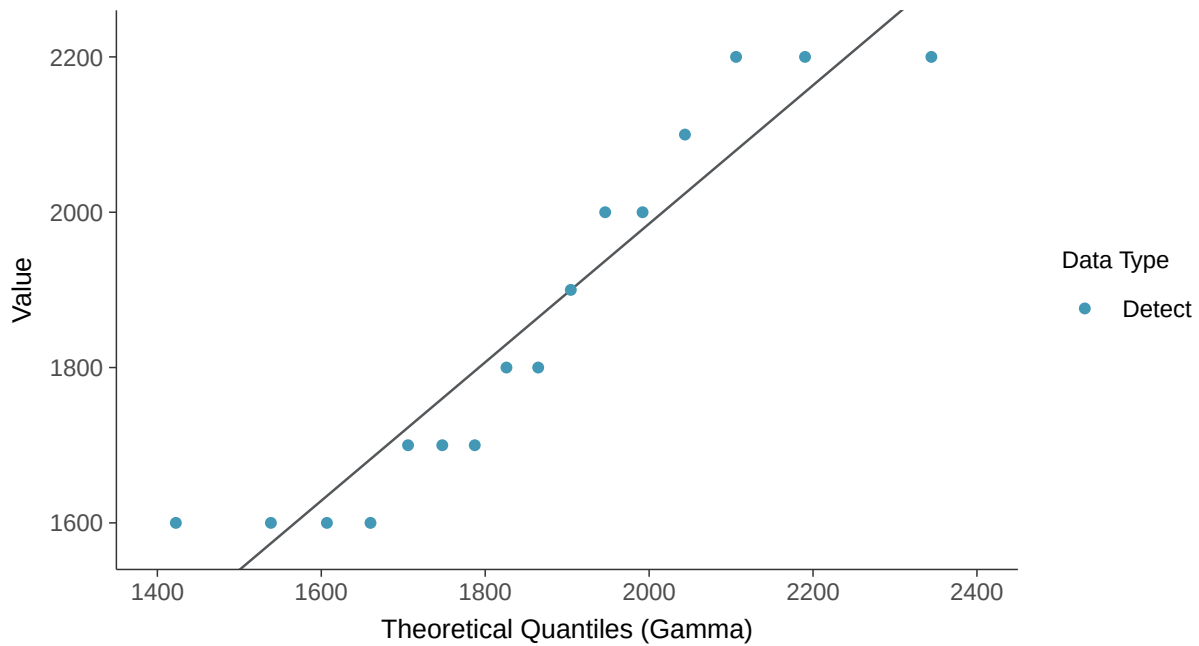
Lognormal Q-Q plot

Total Dissolved Solids, MW-19 (mg/L)



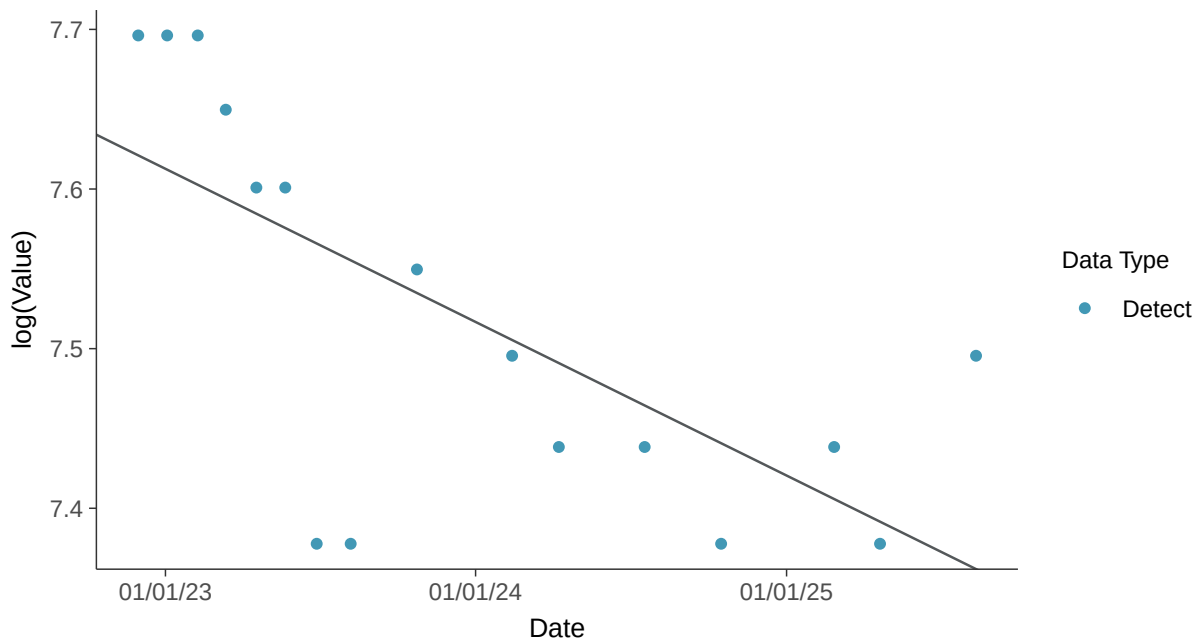
Gamma Q-Q plot

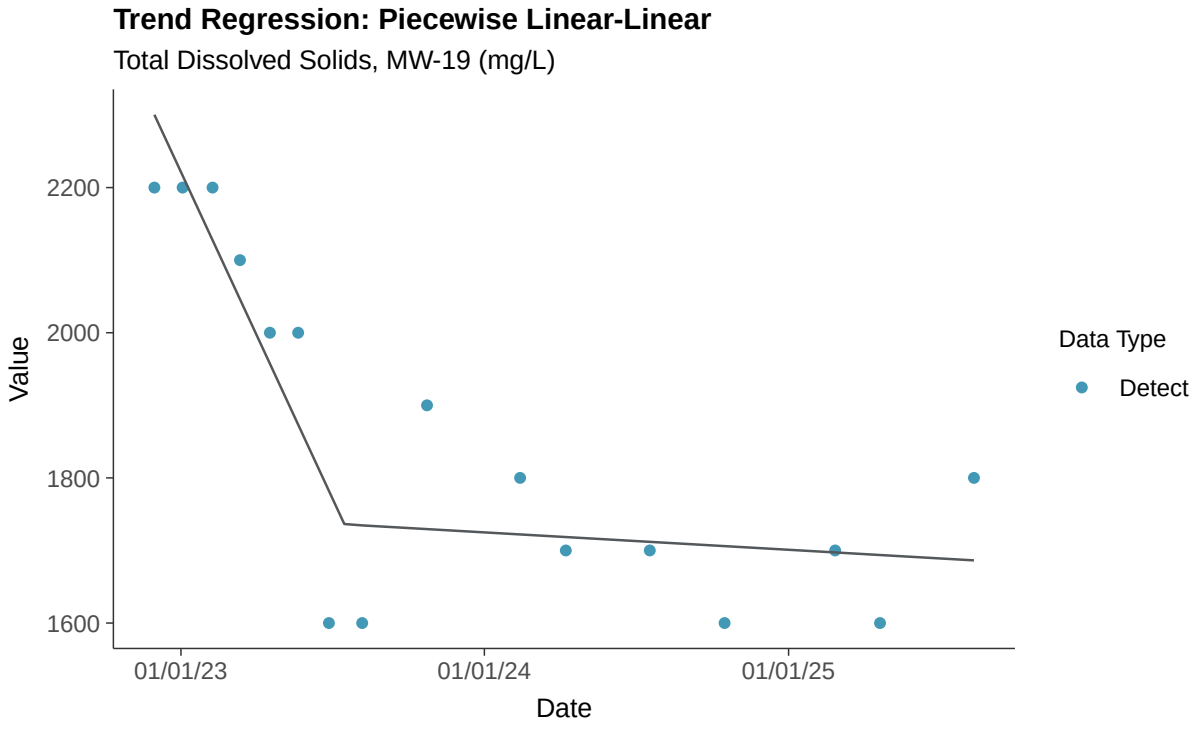
Total Dissolved Solids, MW-19 (mg/L)

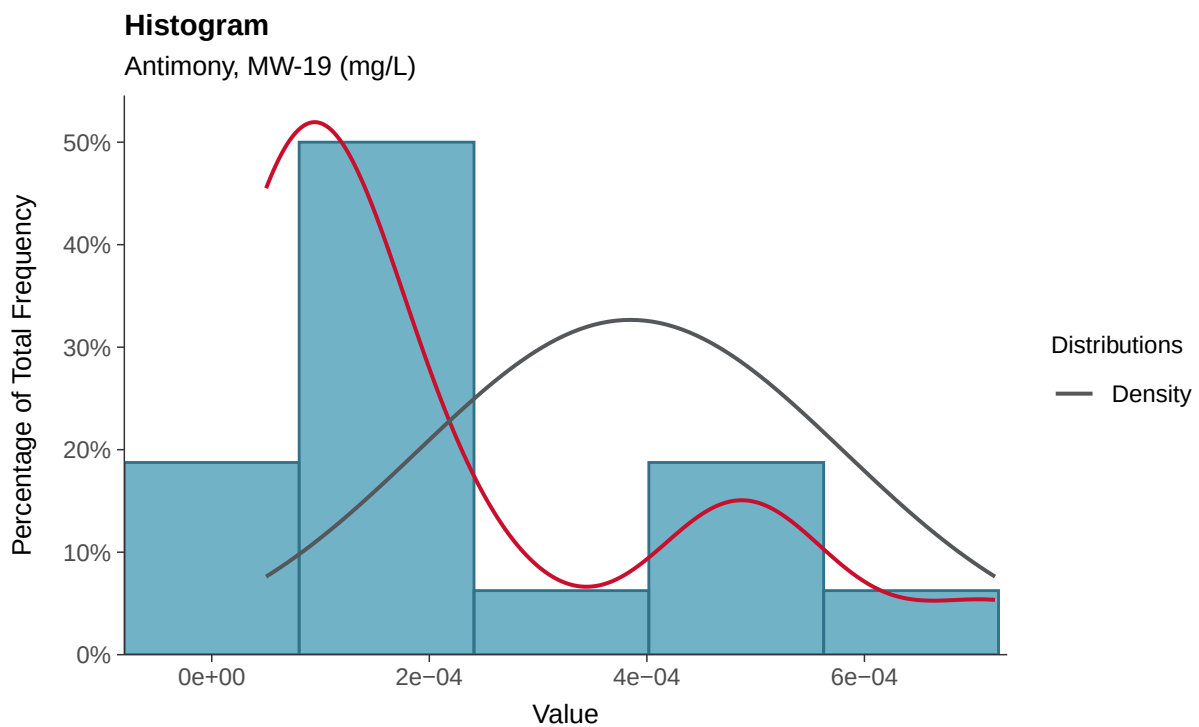


Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-19 (mg/L)

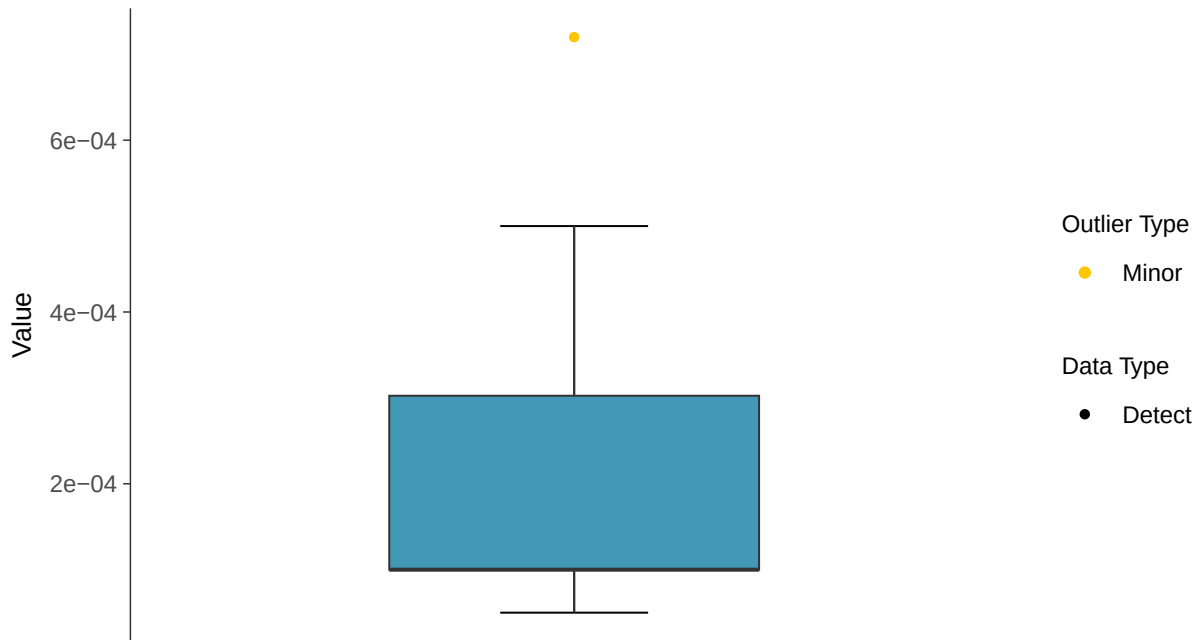






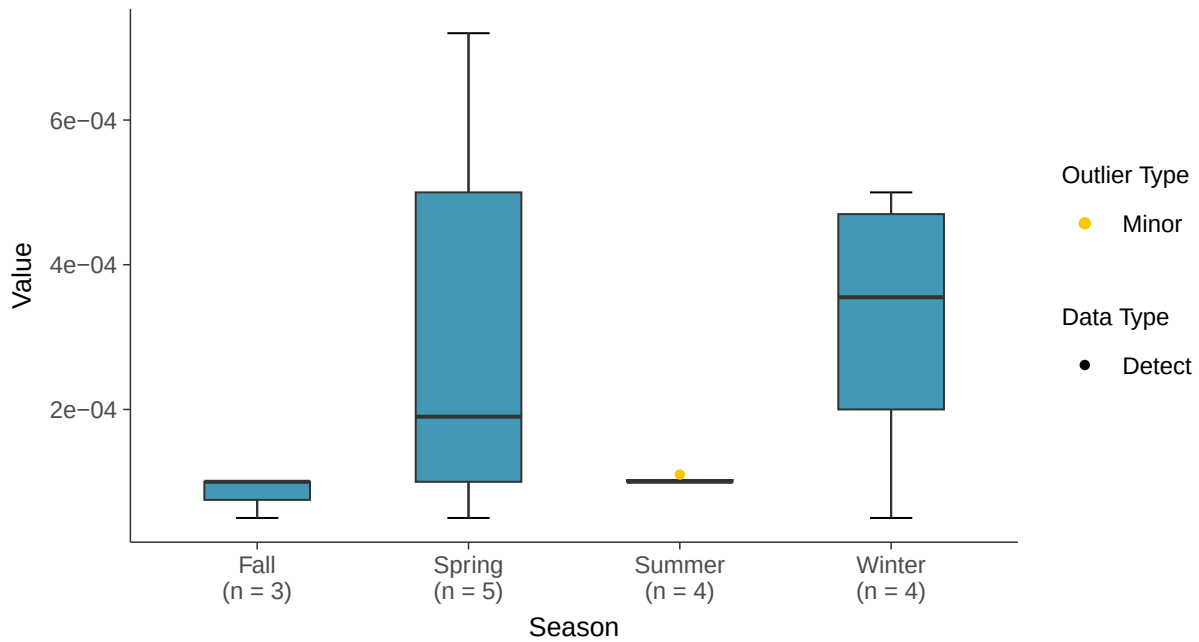
Boxplot

Antimony, MW-19 (mg/L)



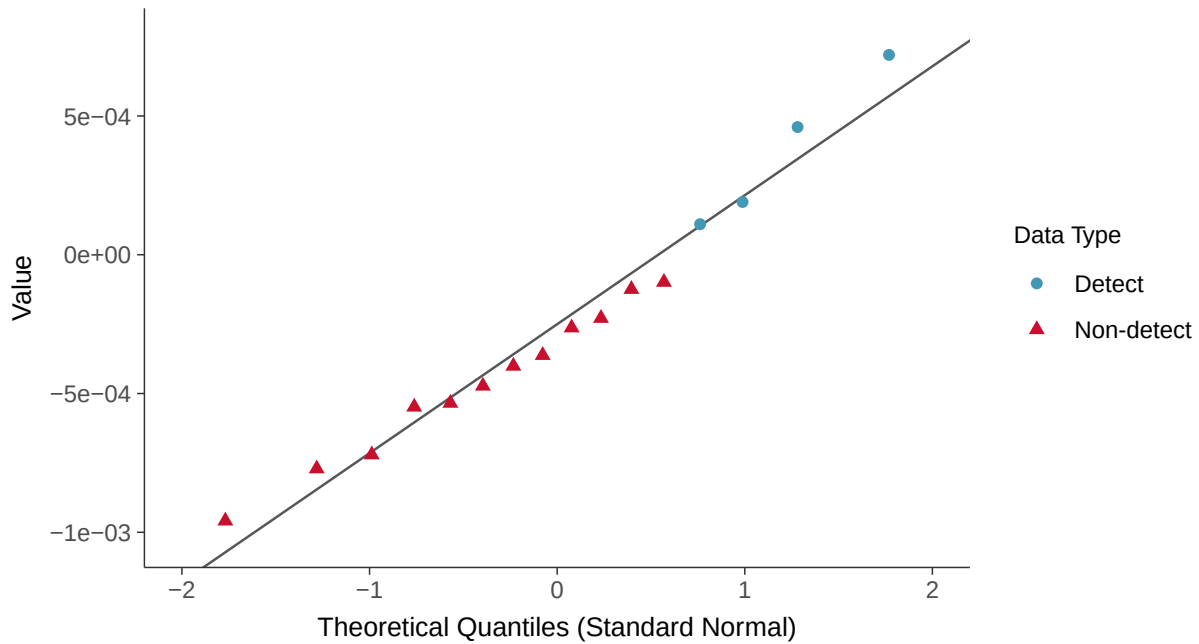
Boxplot by Season

Antimony, MW-19 (mg/L)



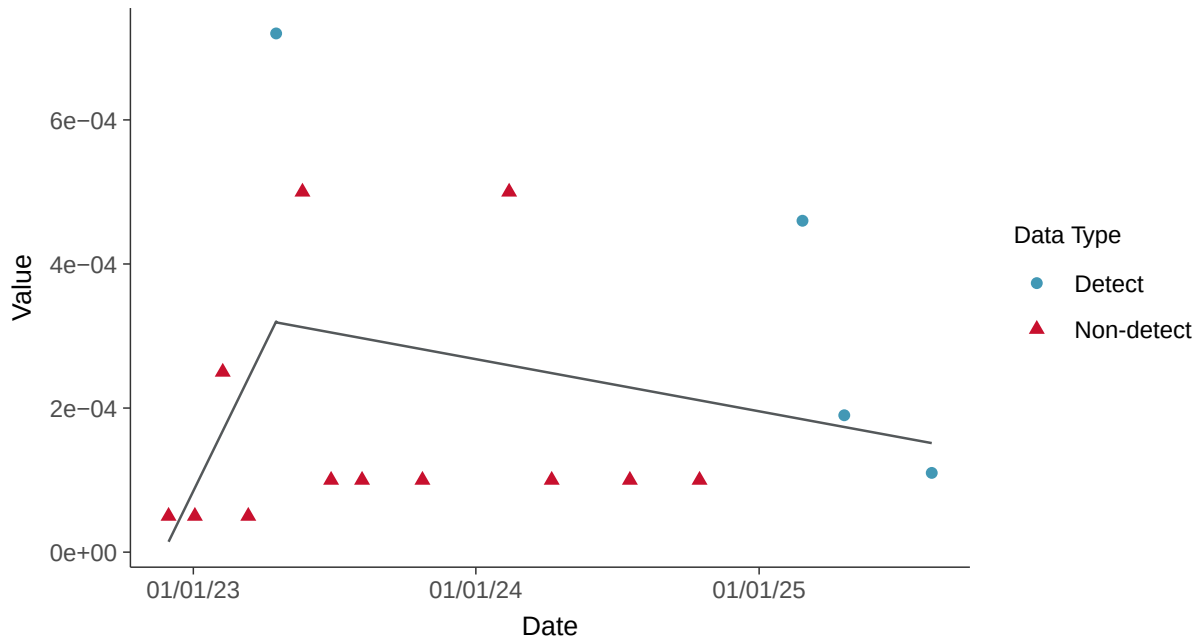
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-19 (mg/L)



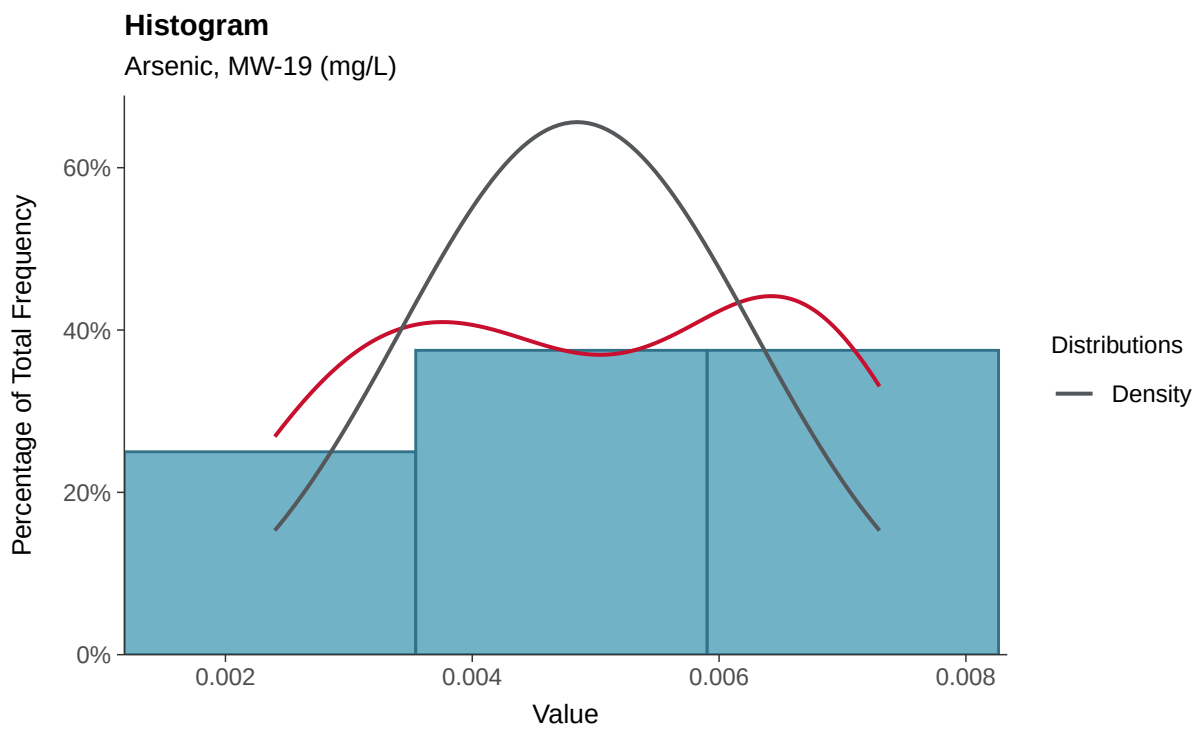
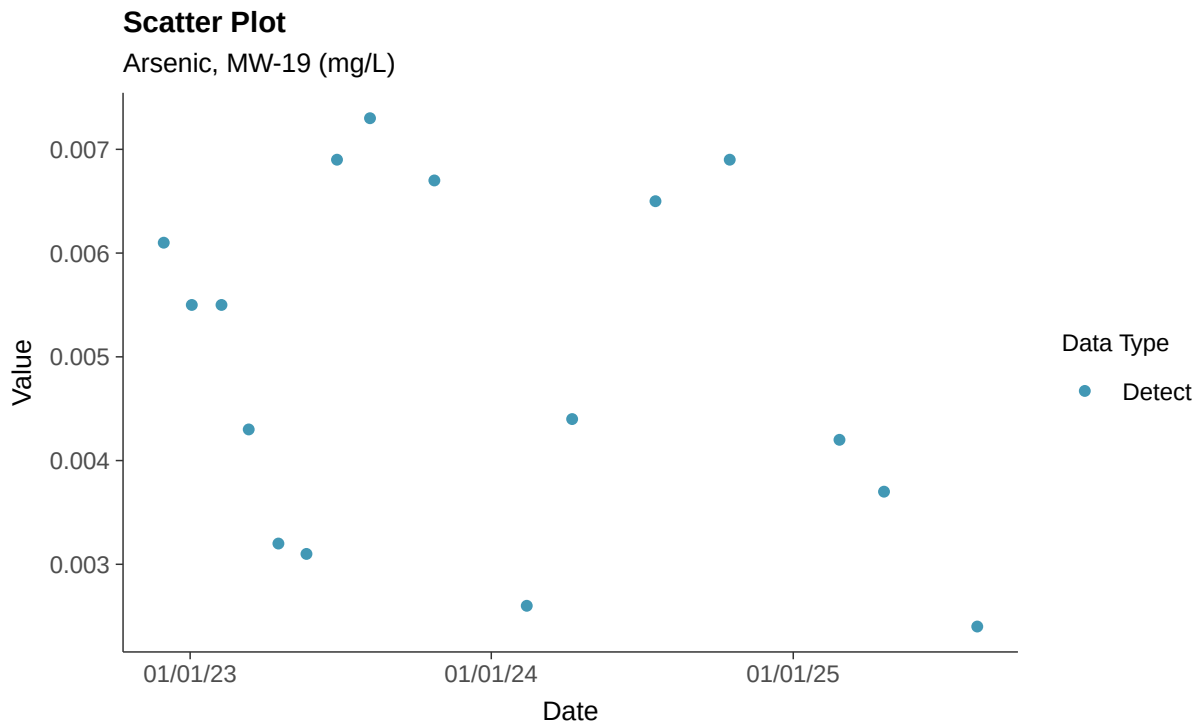
Trend Regression: Piecewise Linear-Linear

Antimony, MW-19 (mg/L)



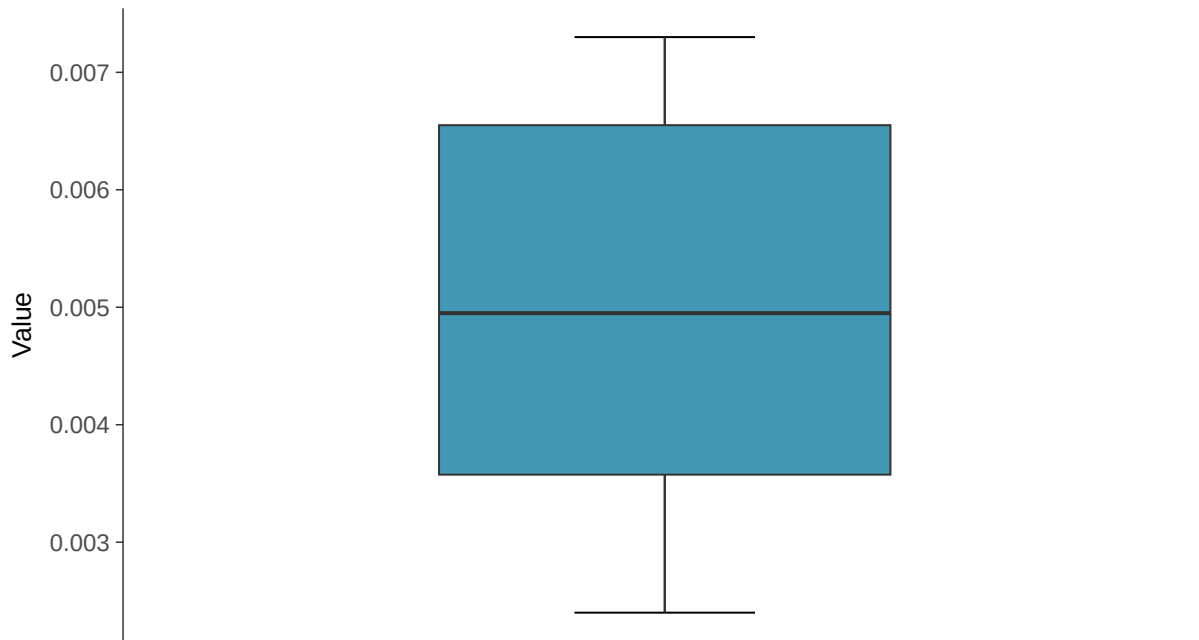
Appendix IV: Arsenic, MW-19

ID: 29_1_4_102



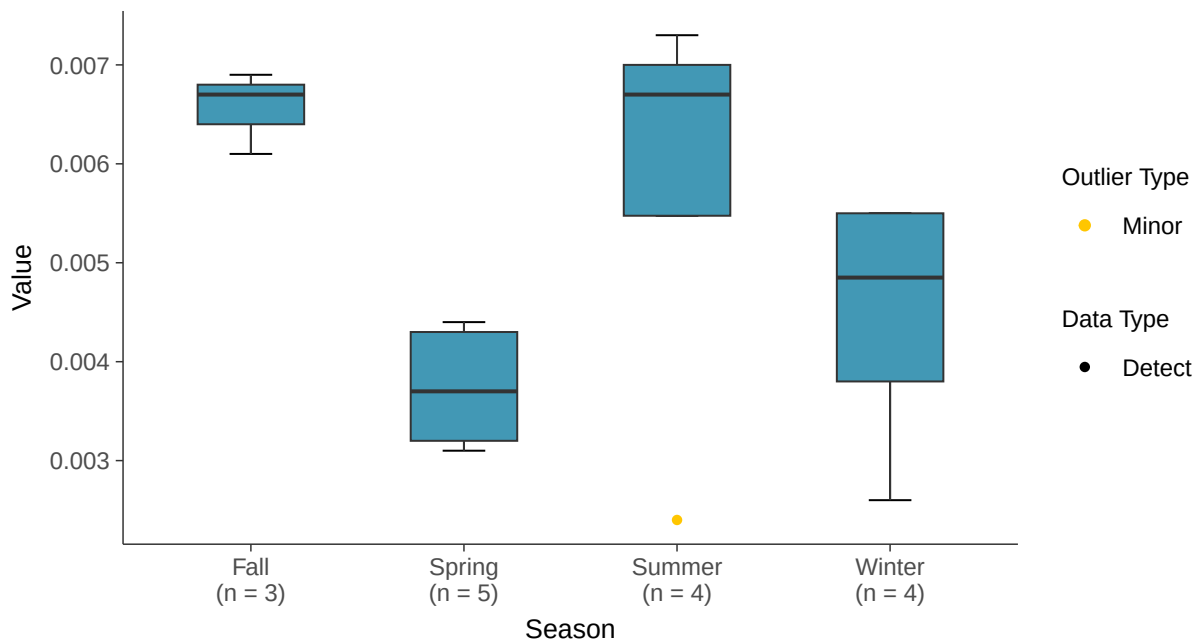
Boxplot

Arsenic, MW-19 (mg/L)



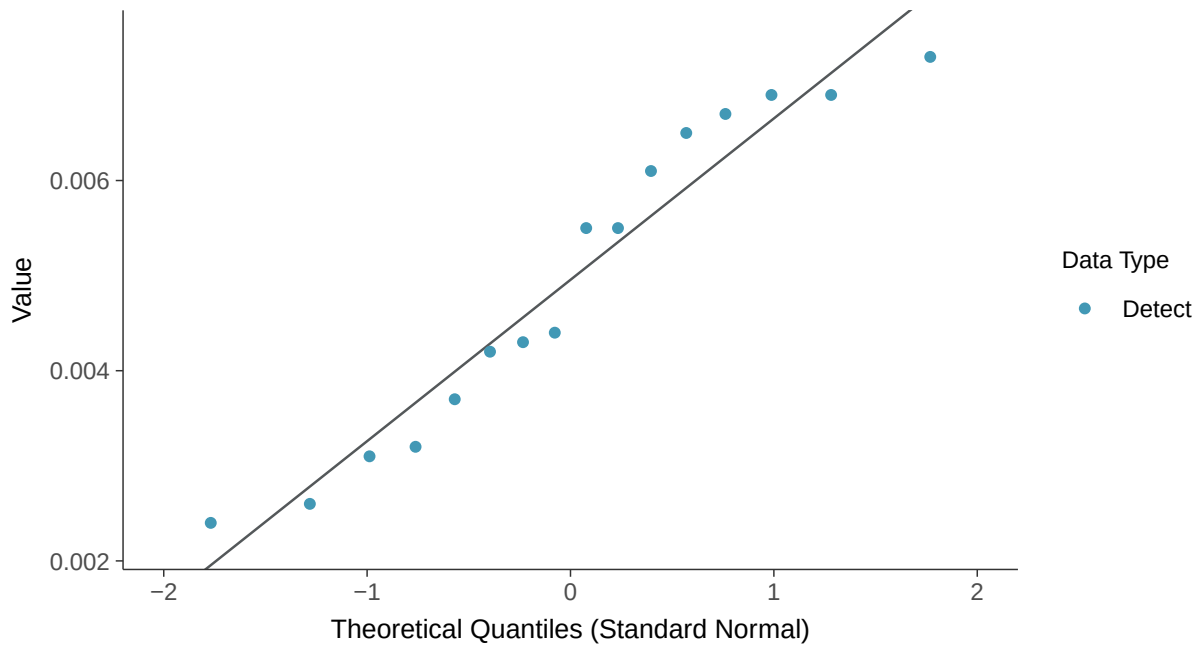
Boxplot by Season

Arsenic, MW-19 (mg/L)



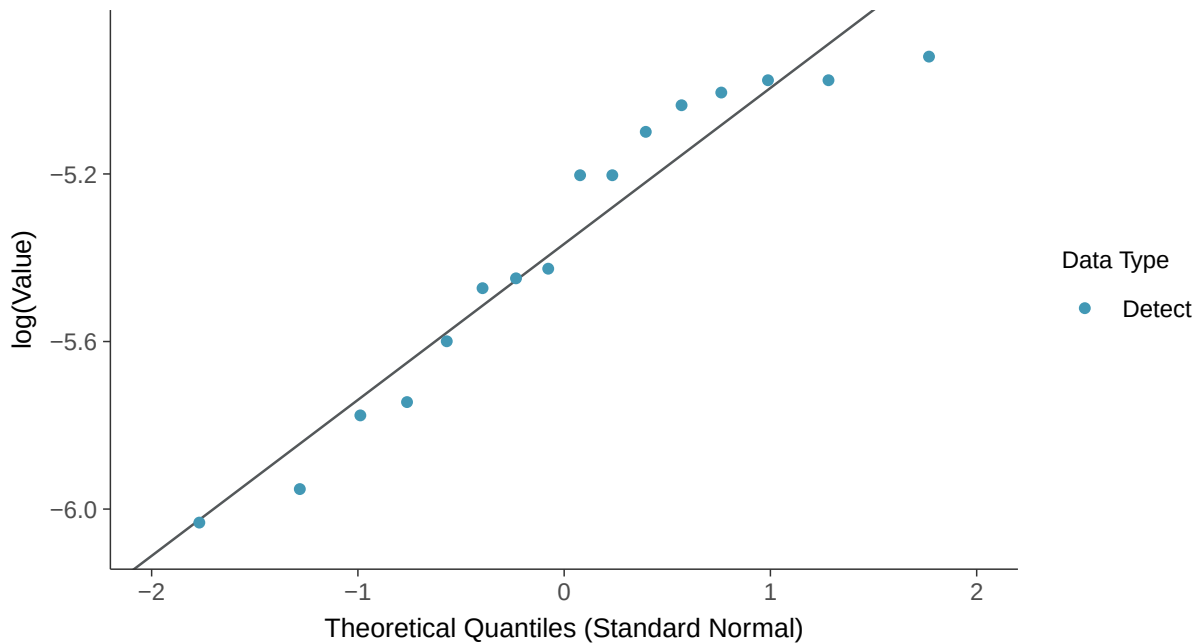
Normal Q-Q plot

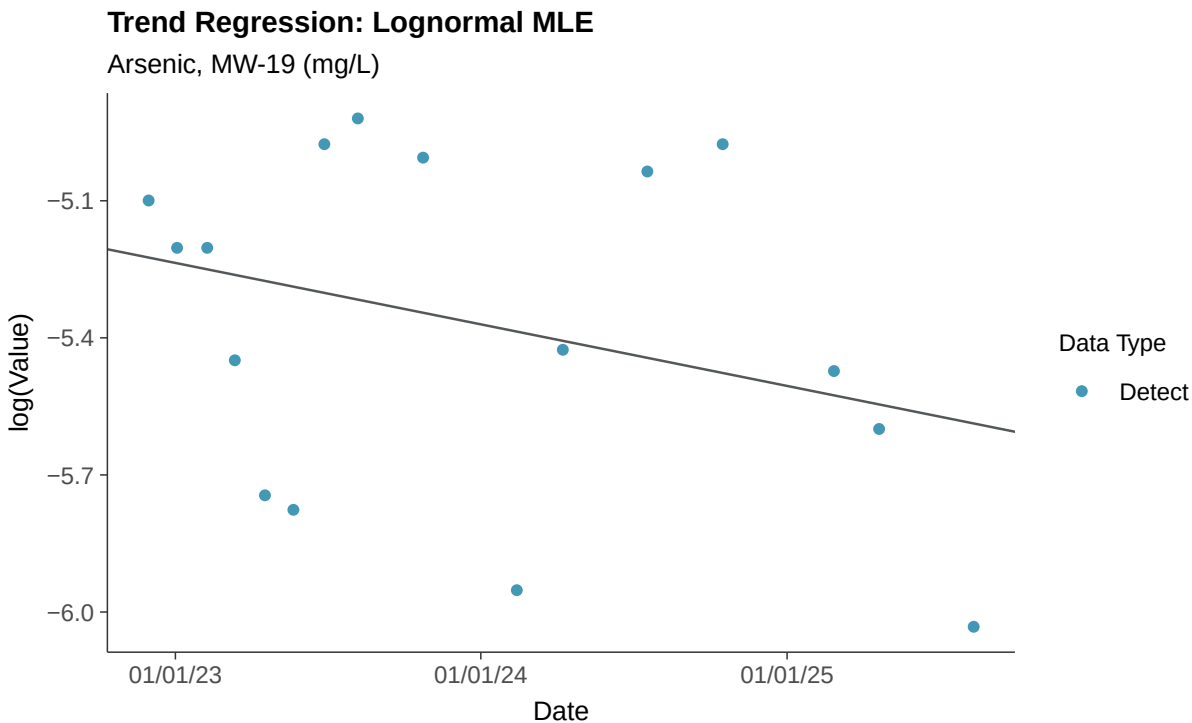
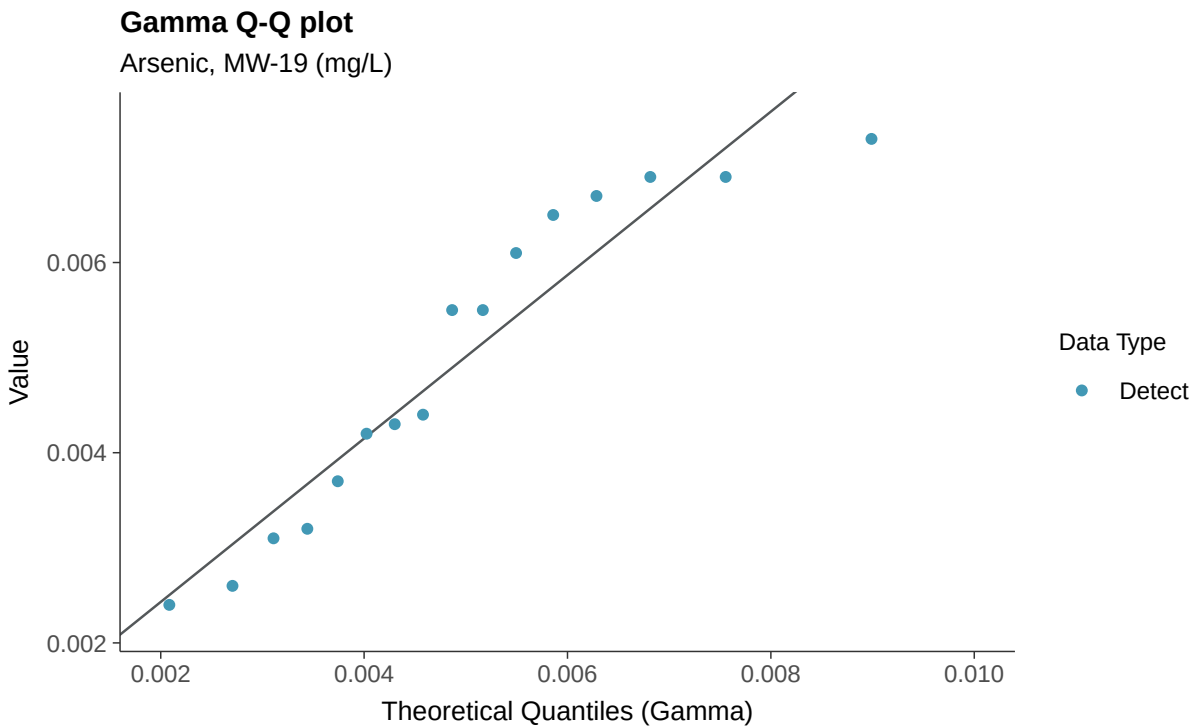
Arsenic, MW-19 (mg/L)

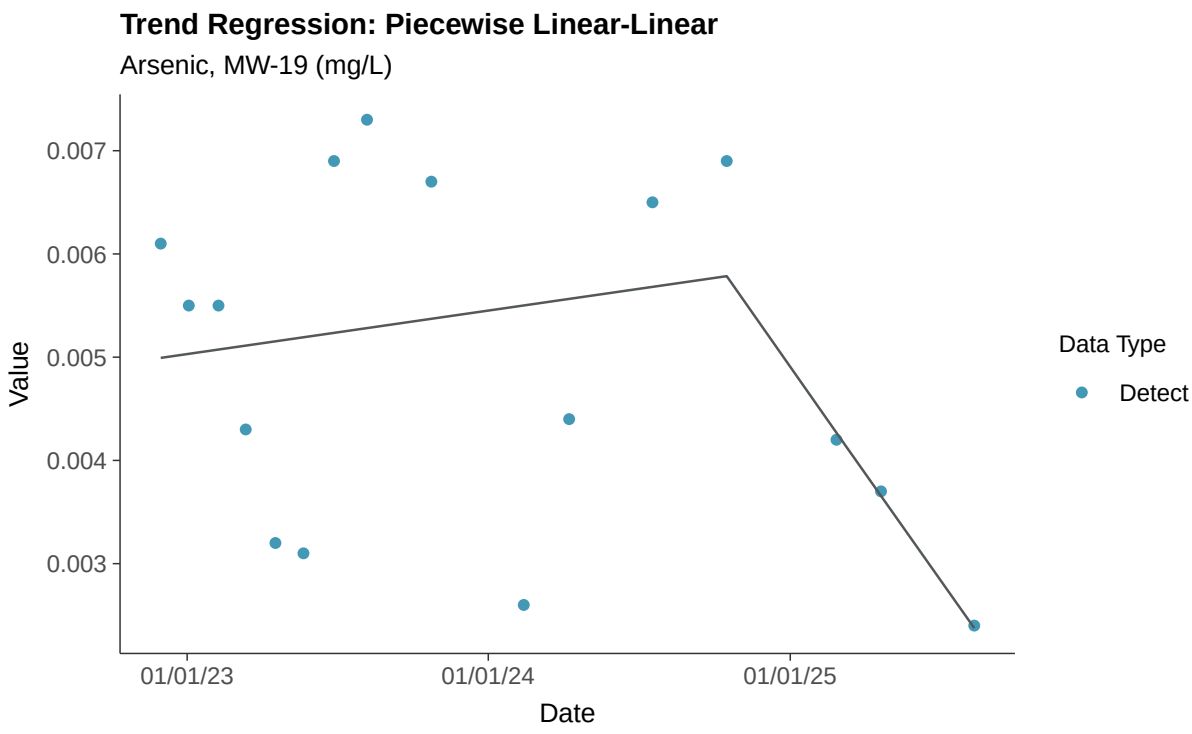


Lognormal Q-Q plot

Arsenic, MW-19 (mg/L)

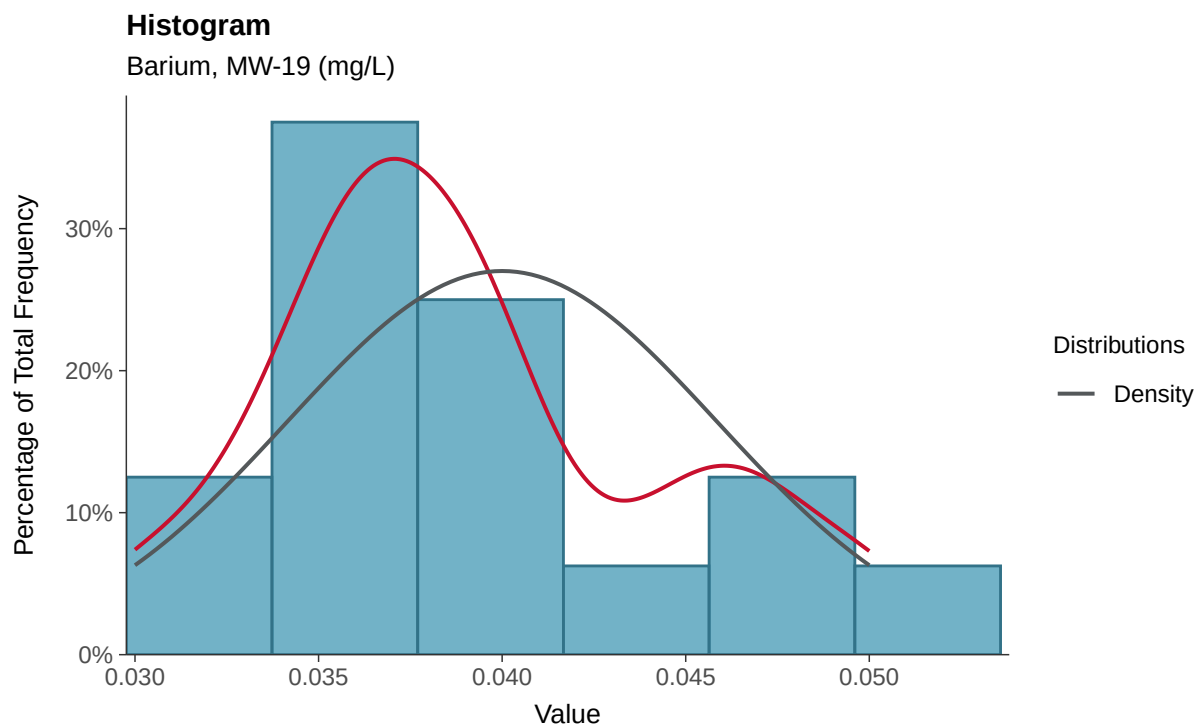
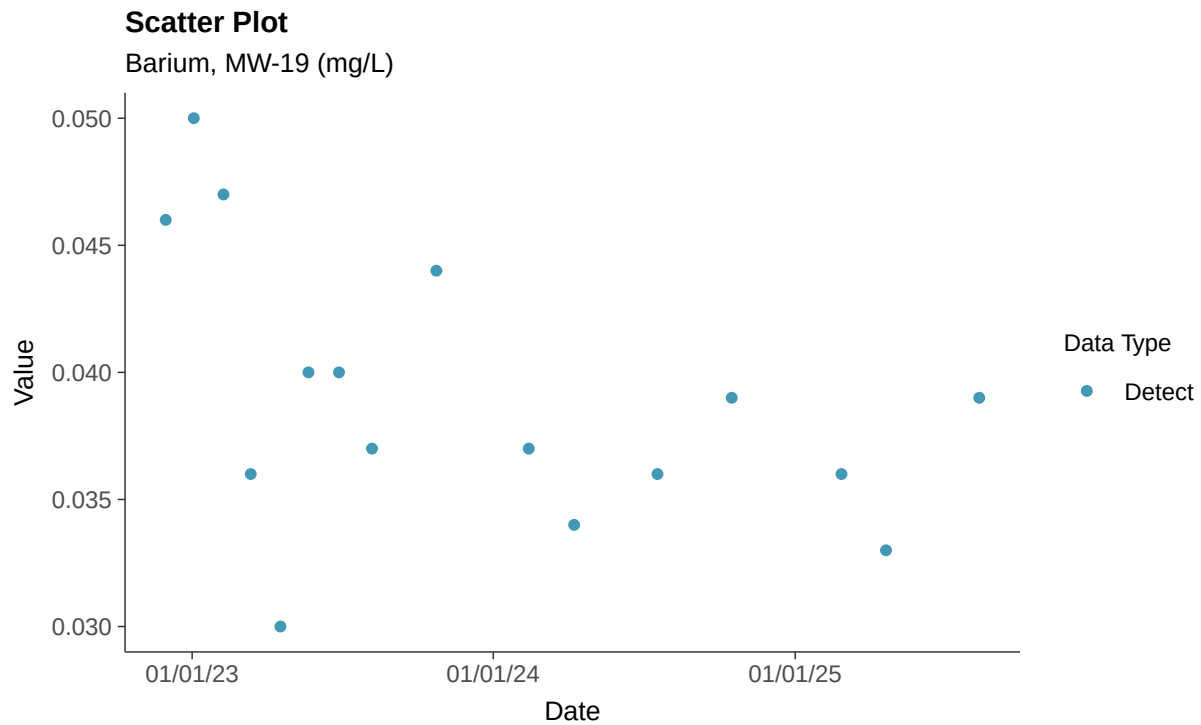






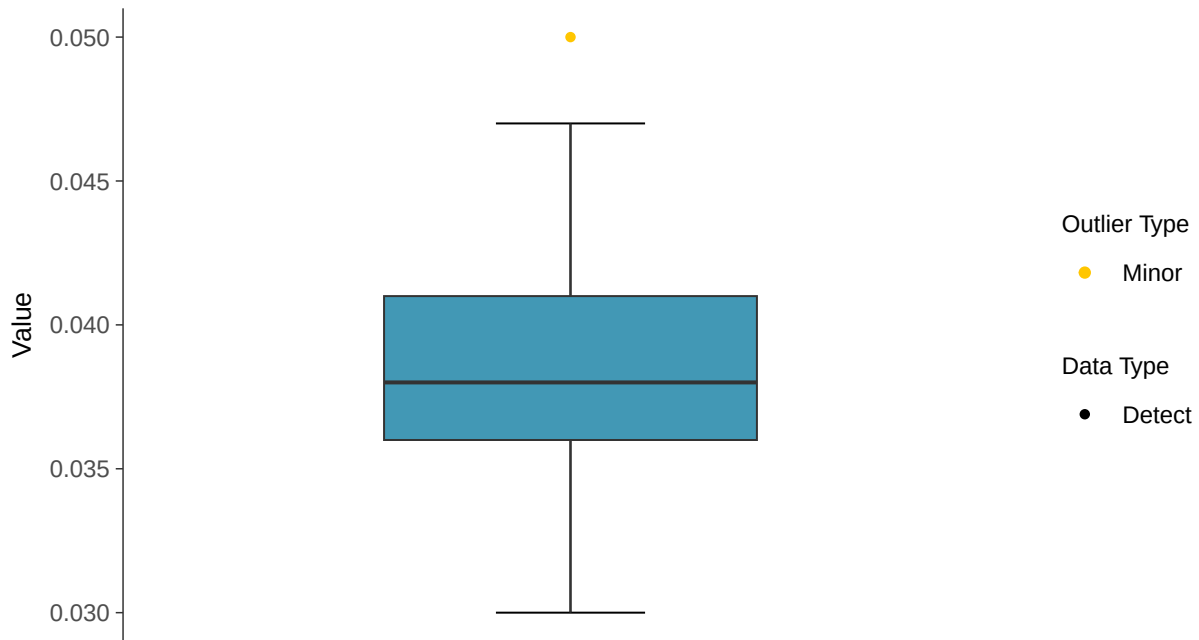
Appendix IV: Barium, MW-19

ID: 29_1_4_103



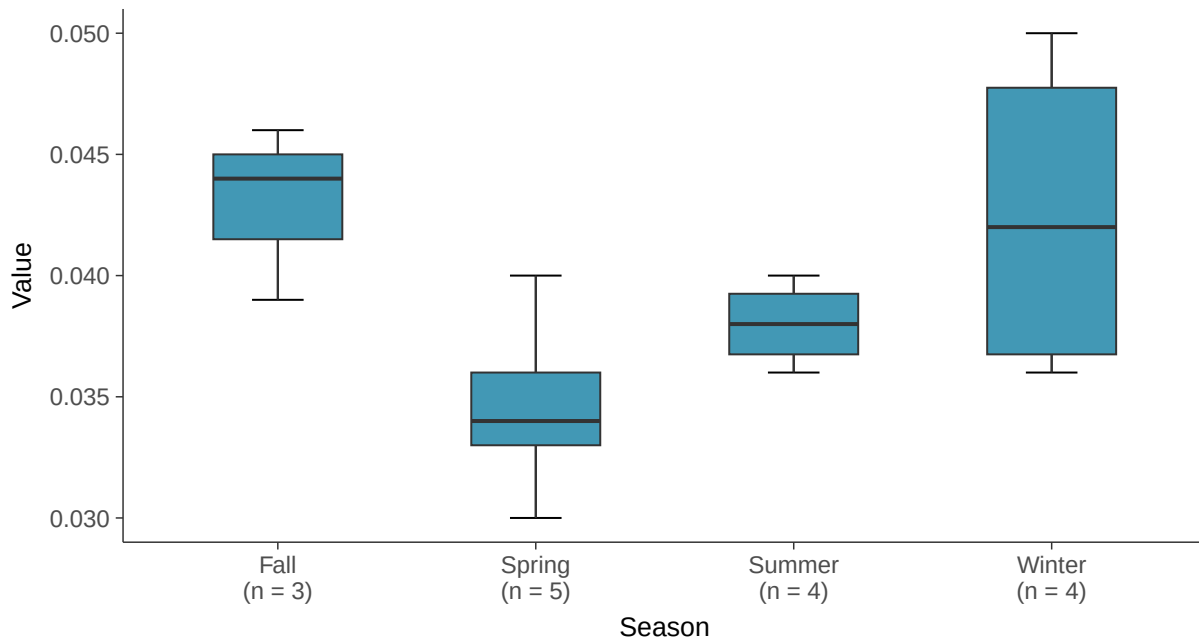
Boxplot

Barium, MW-19 (mg/L)



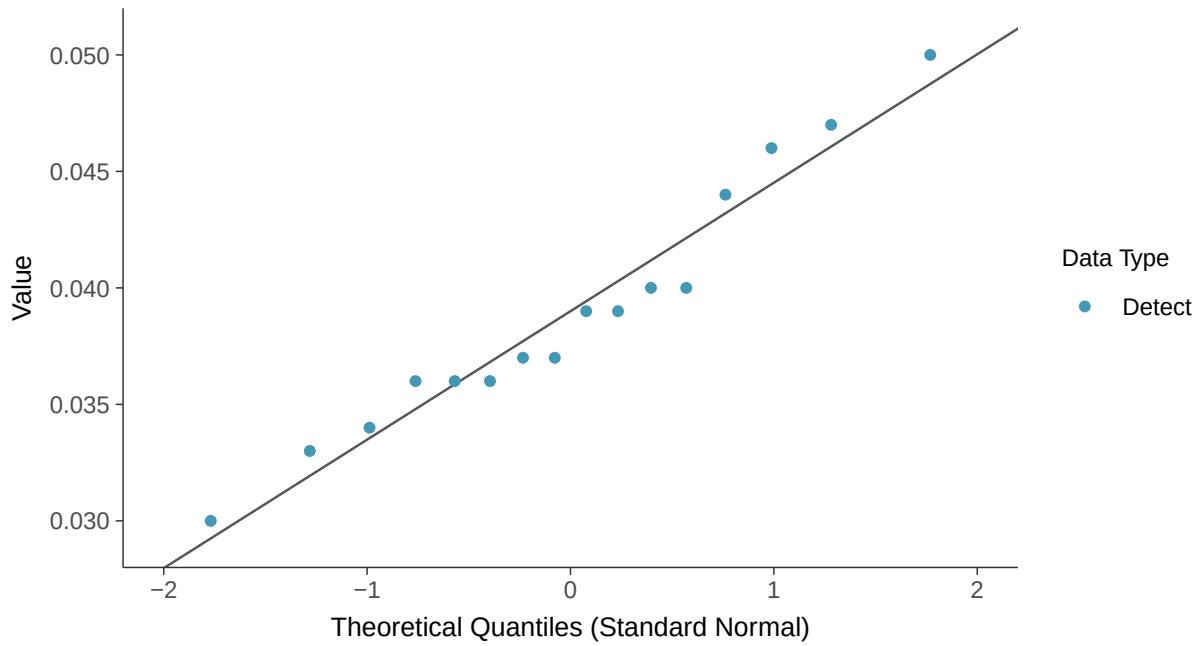
Boxplot by Season

Barium, MW-19 (mg/L)



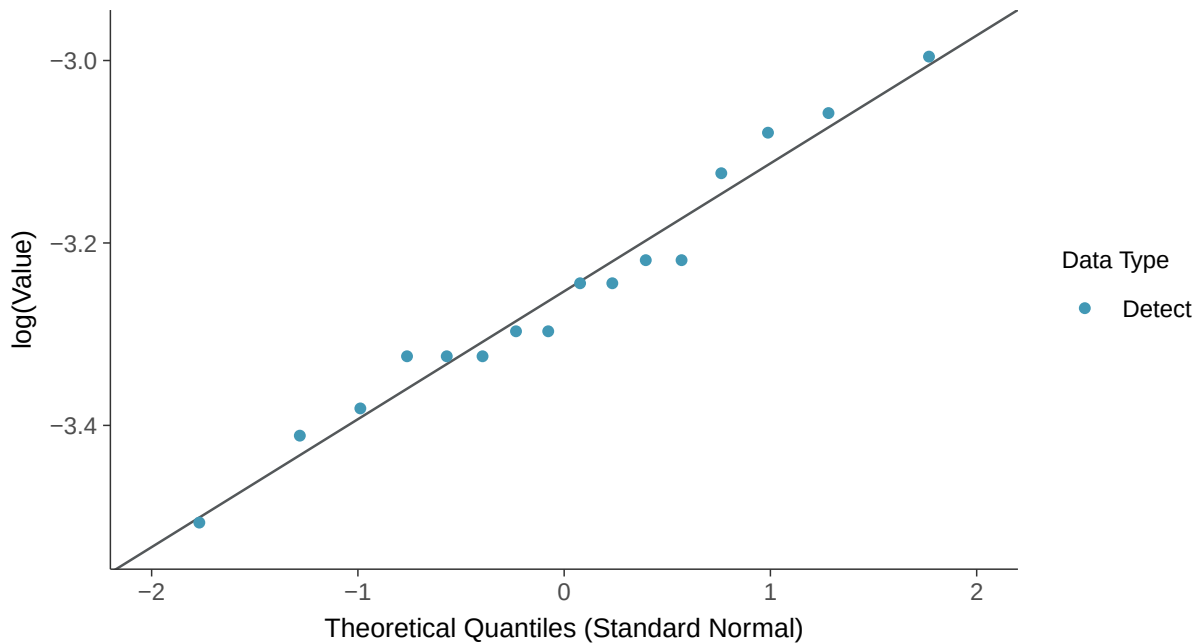
Normal Q-Q plot

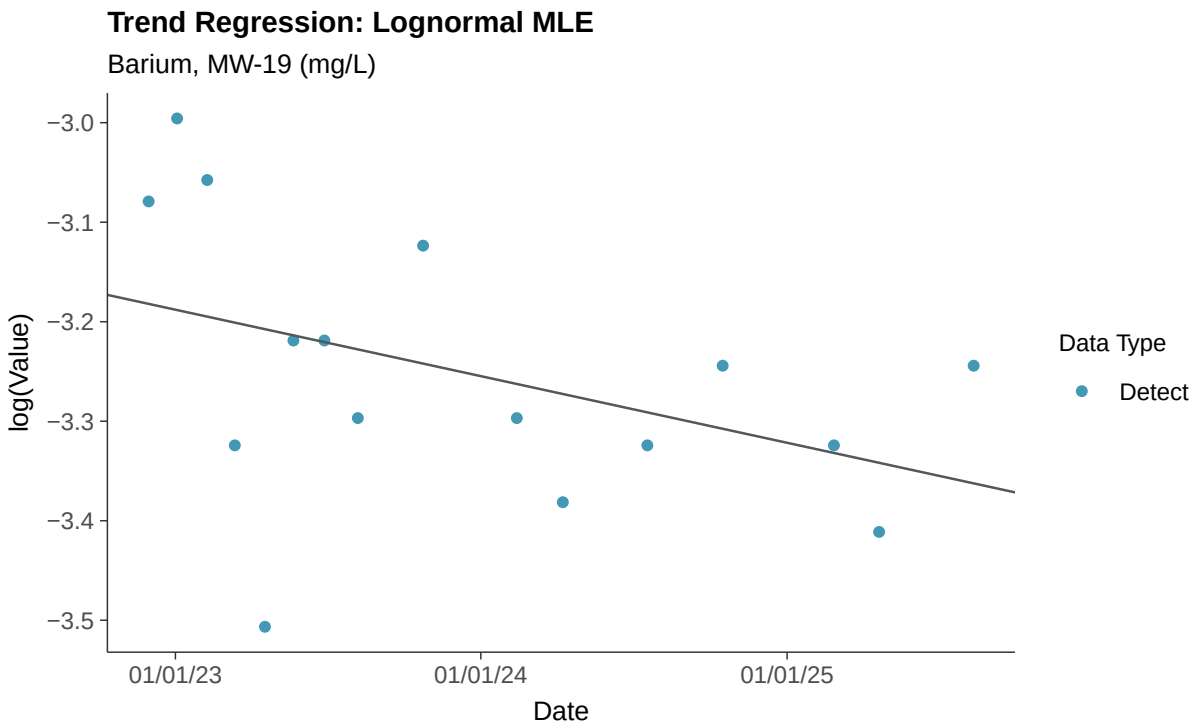
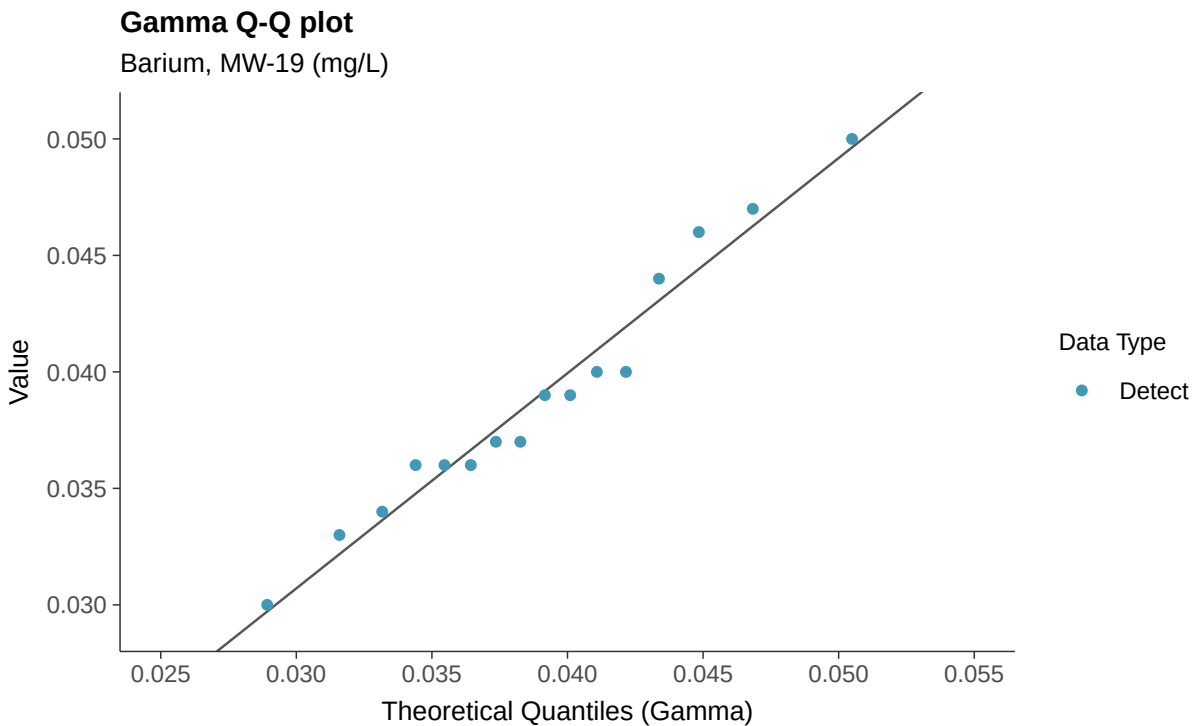
Barium, MW-19 (mg/L)

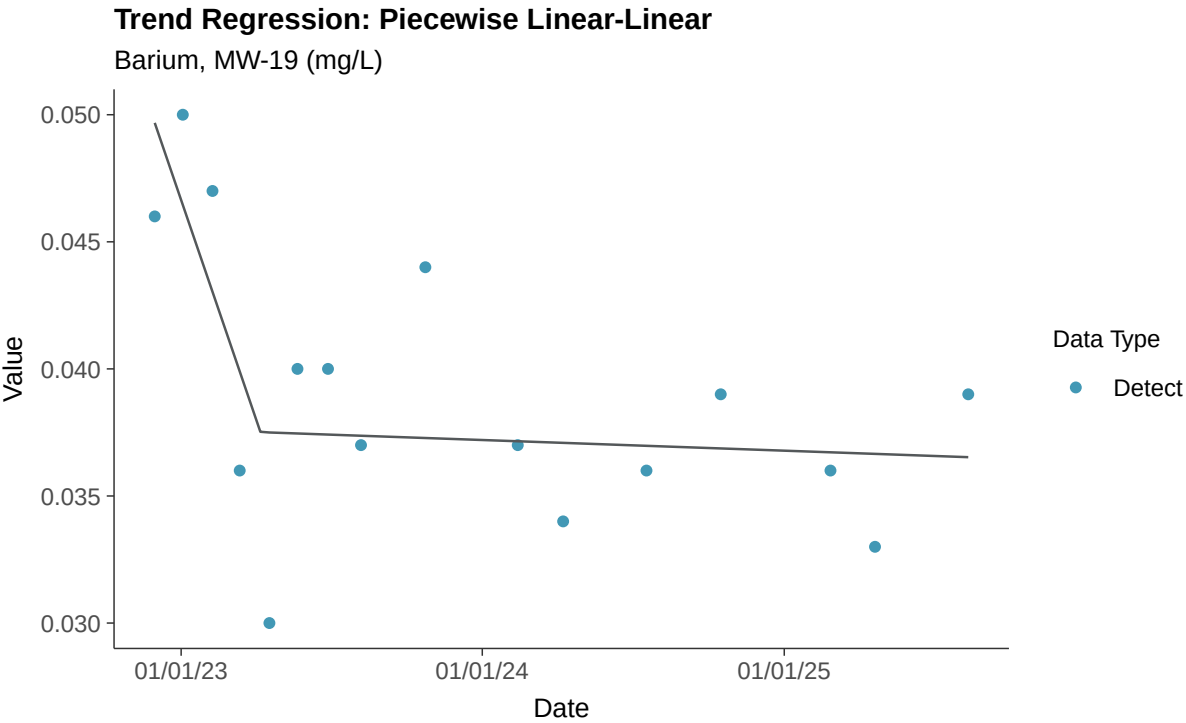


Lognormal Q-Q plot

Barium, MW-19 (mg/L)

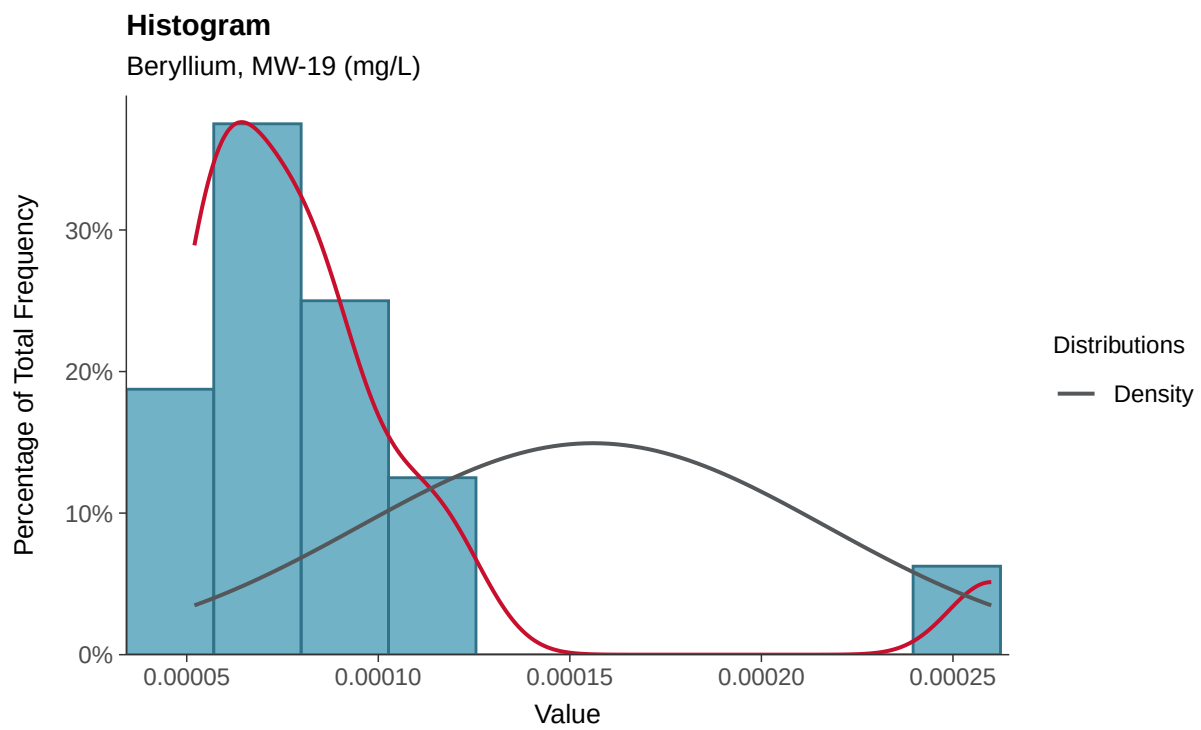
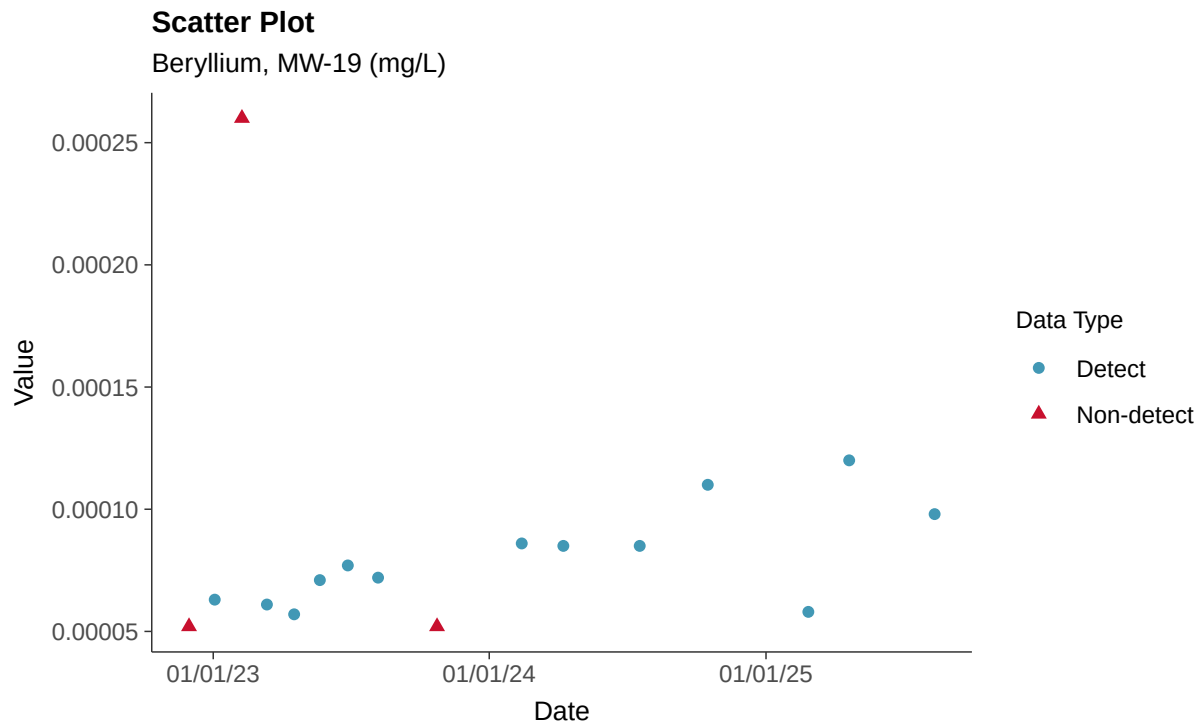






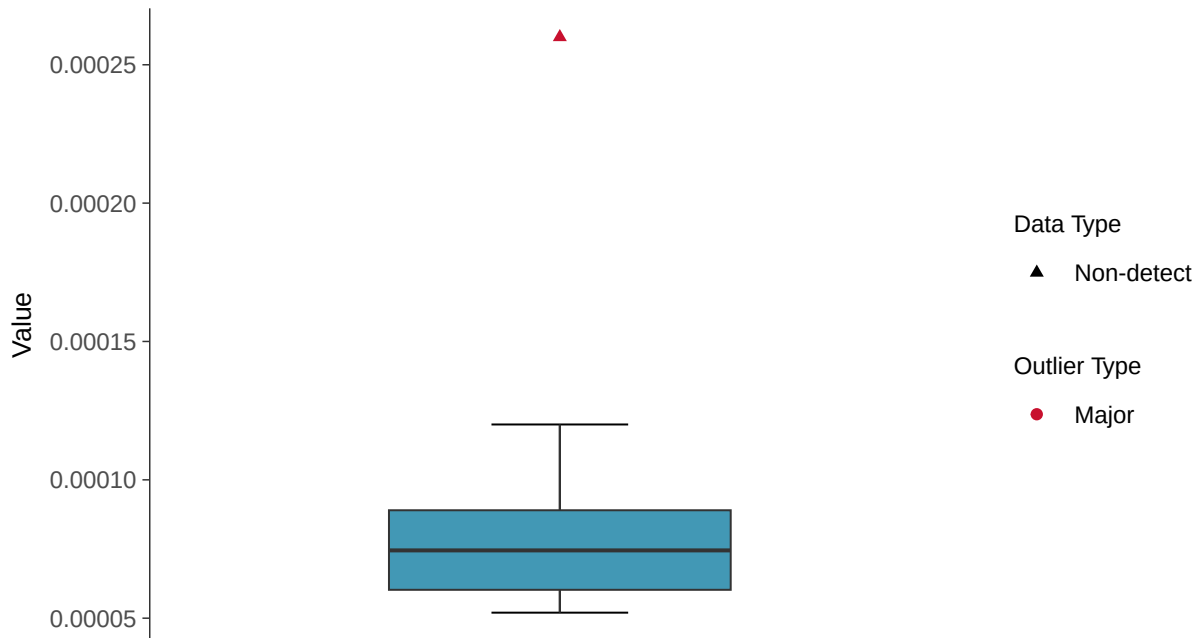
Appendix IV: Beryllium, MW-19

ID: 29_1_4_104



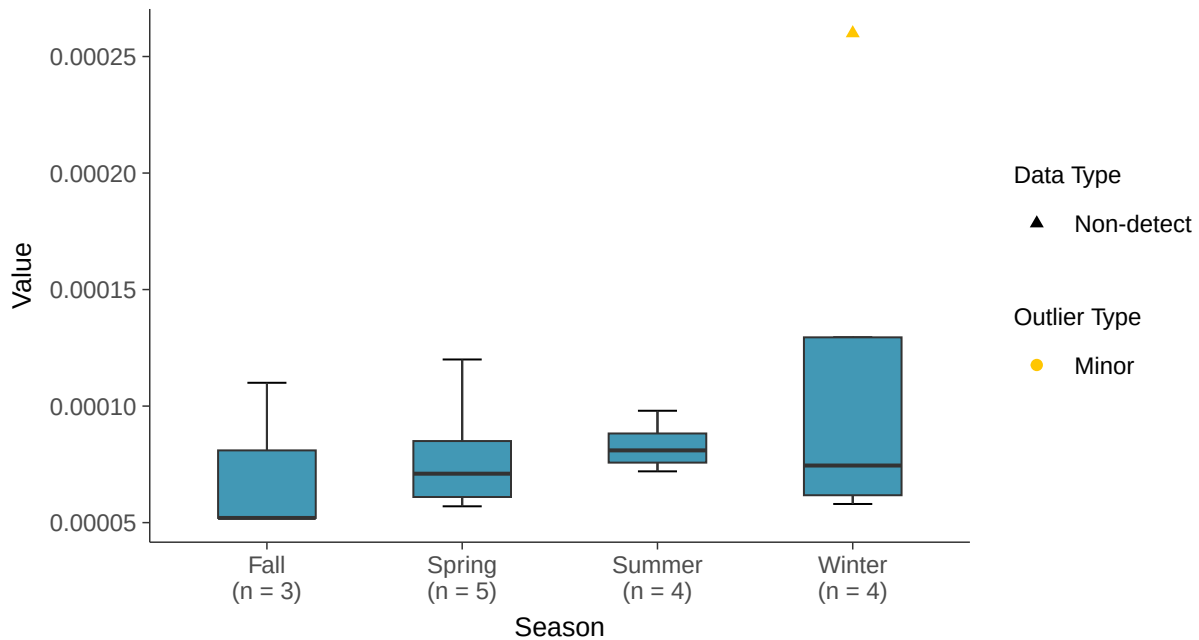
Boxplot

Beryllium, MW-19 (mg/L)



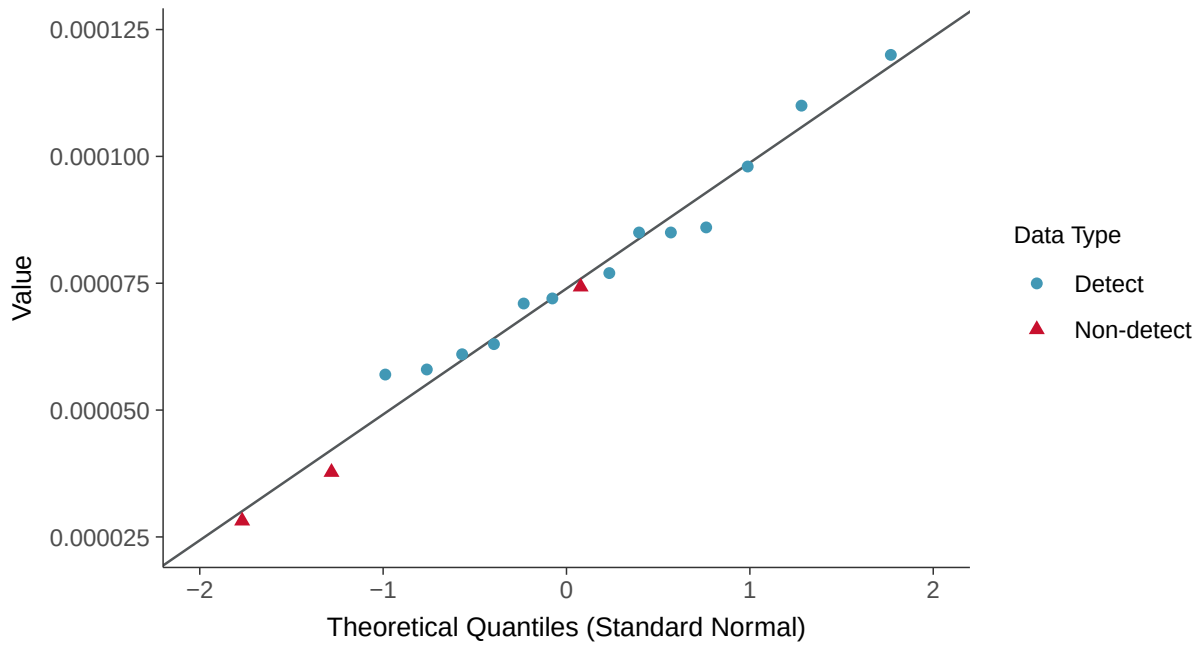
Boxplot by Season

Beryllium, MW-19 (mg/L)



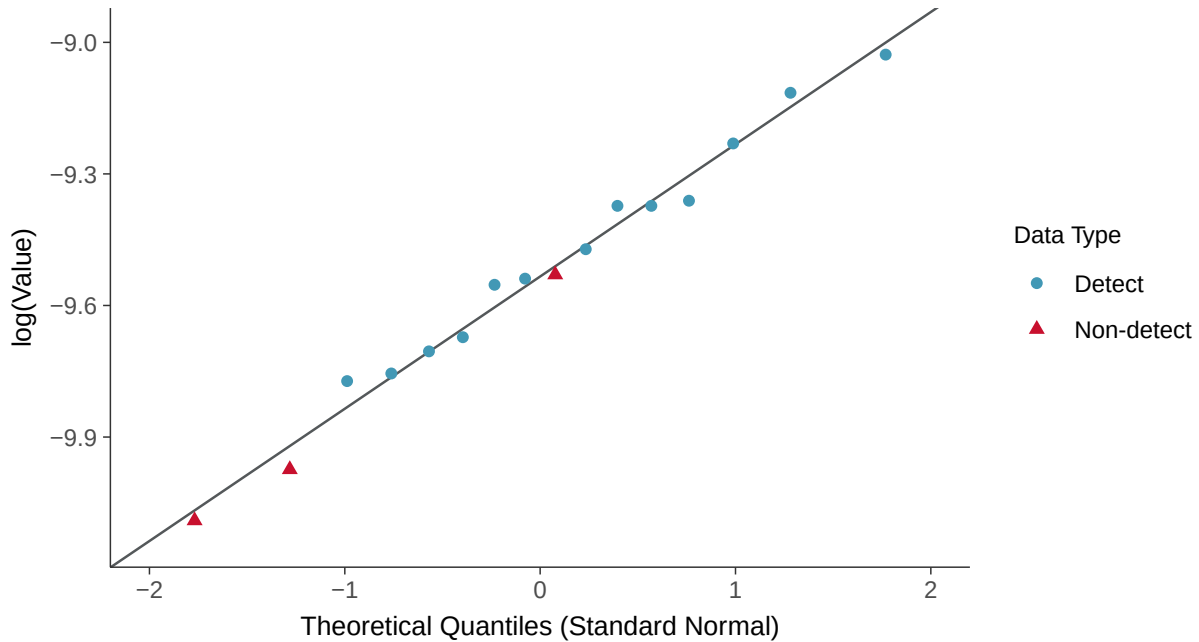
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



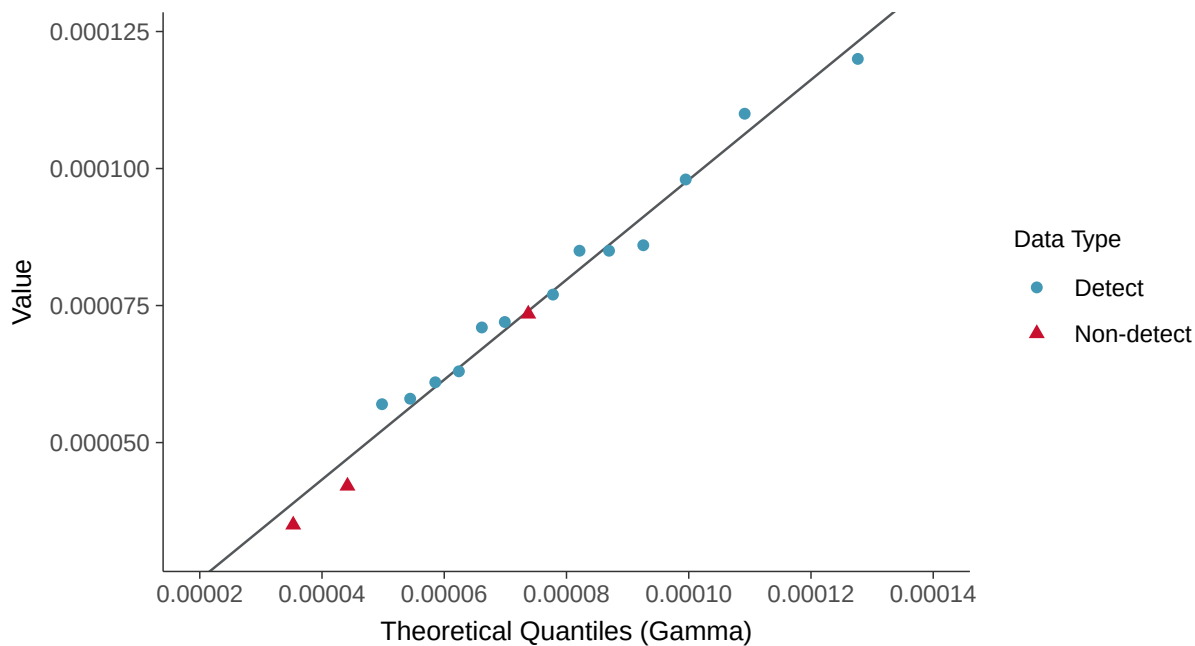
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



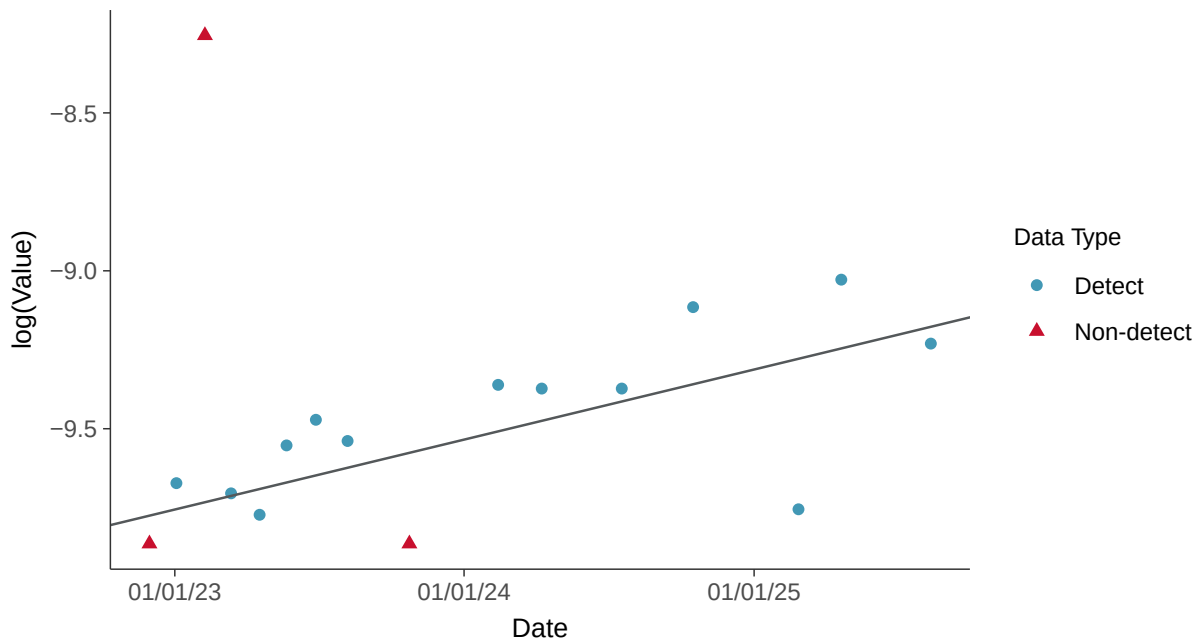
Gamma Q-Q plot using ROS Imputed Estimates

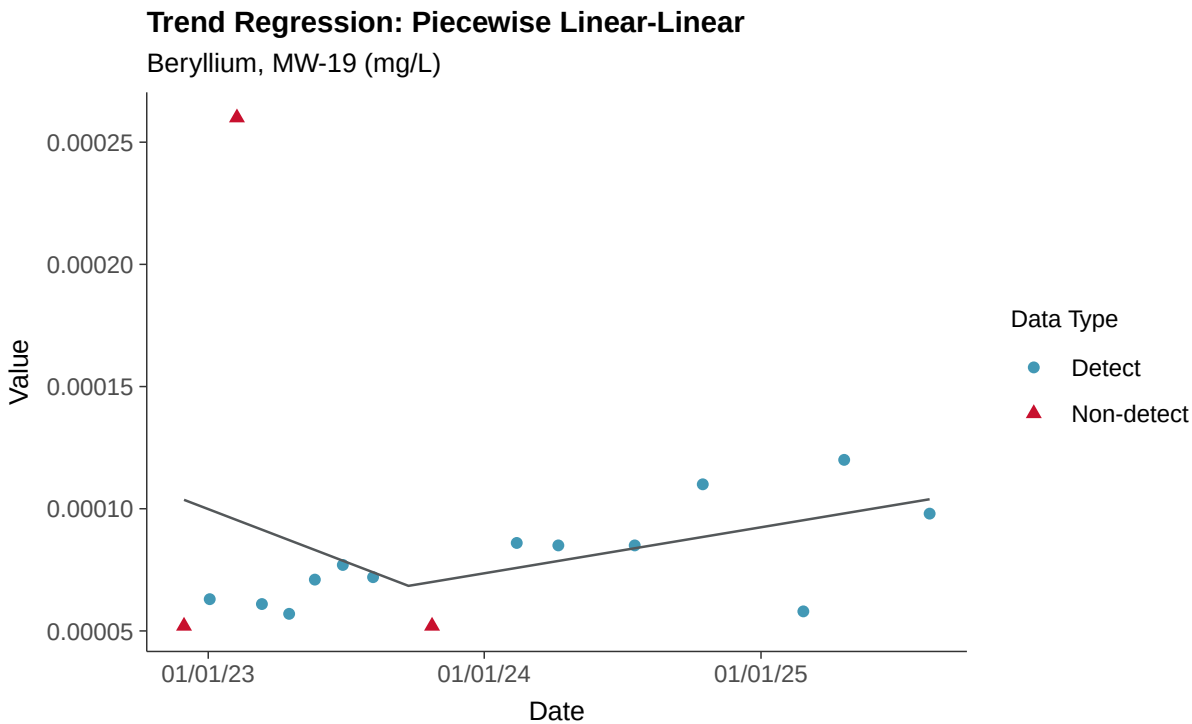
Beryllium, MW-19 (mg/L)



Trend Regression: Lognormal MLE

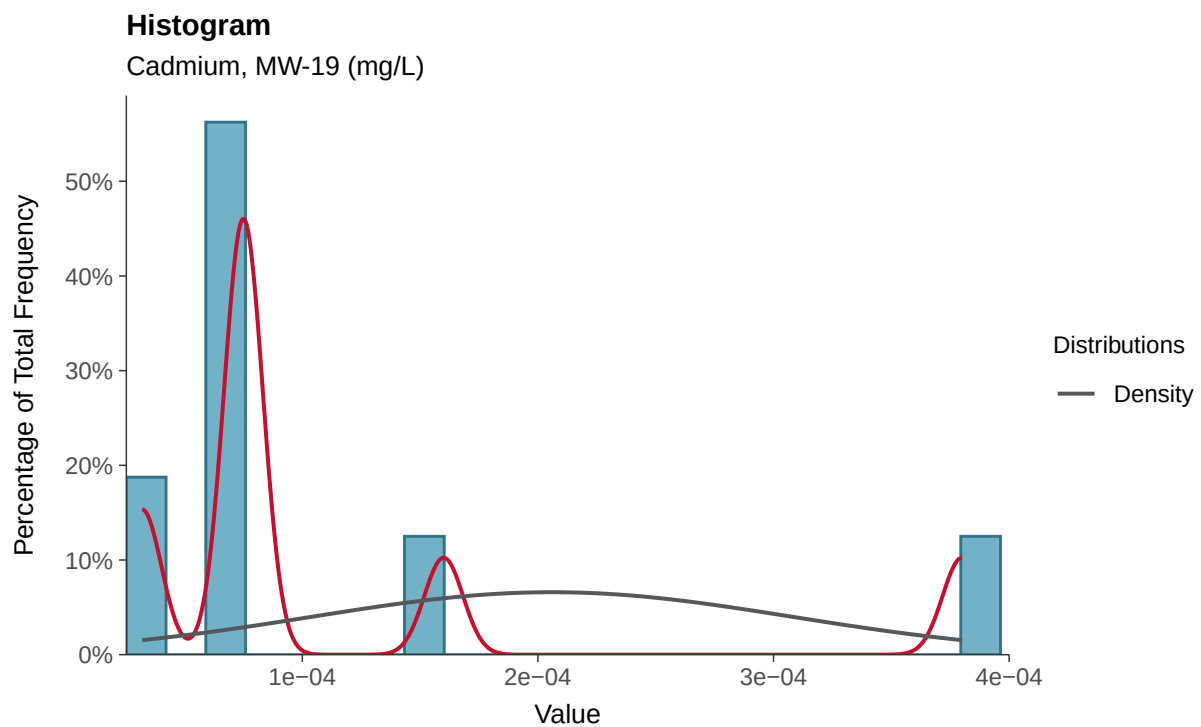
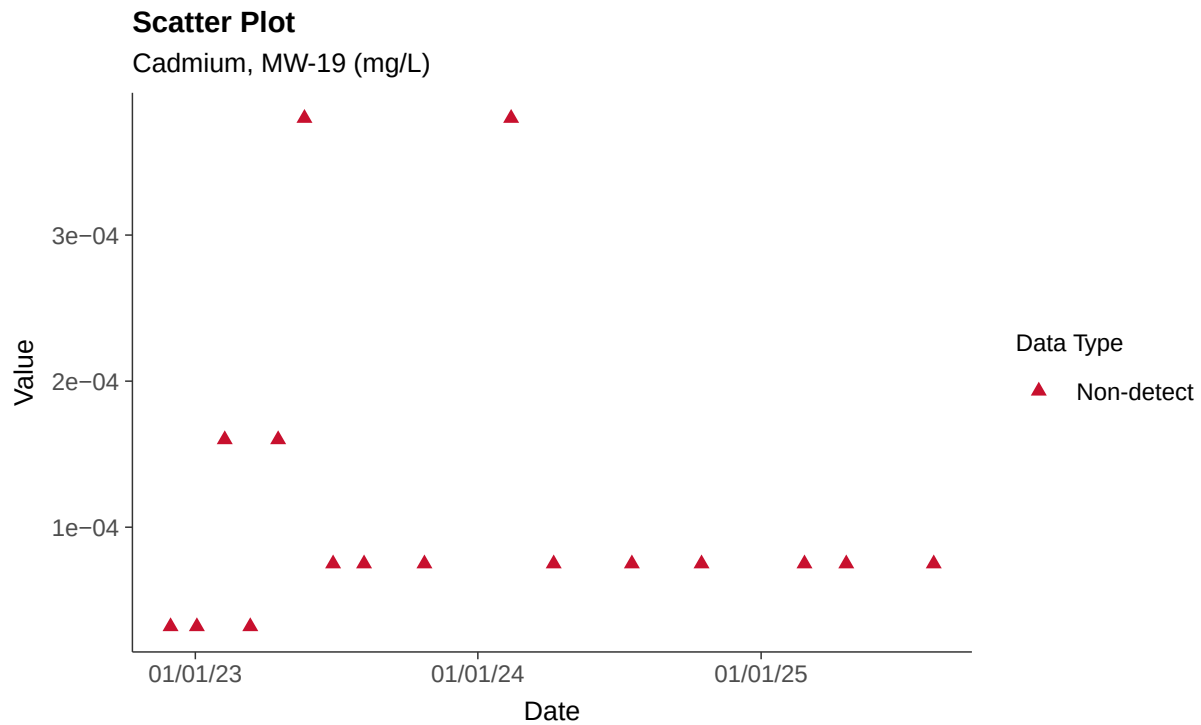
Beryllium, MW-19 (mg/L)





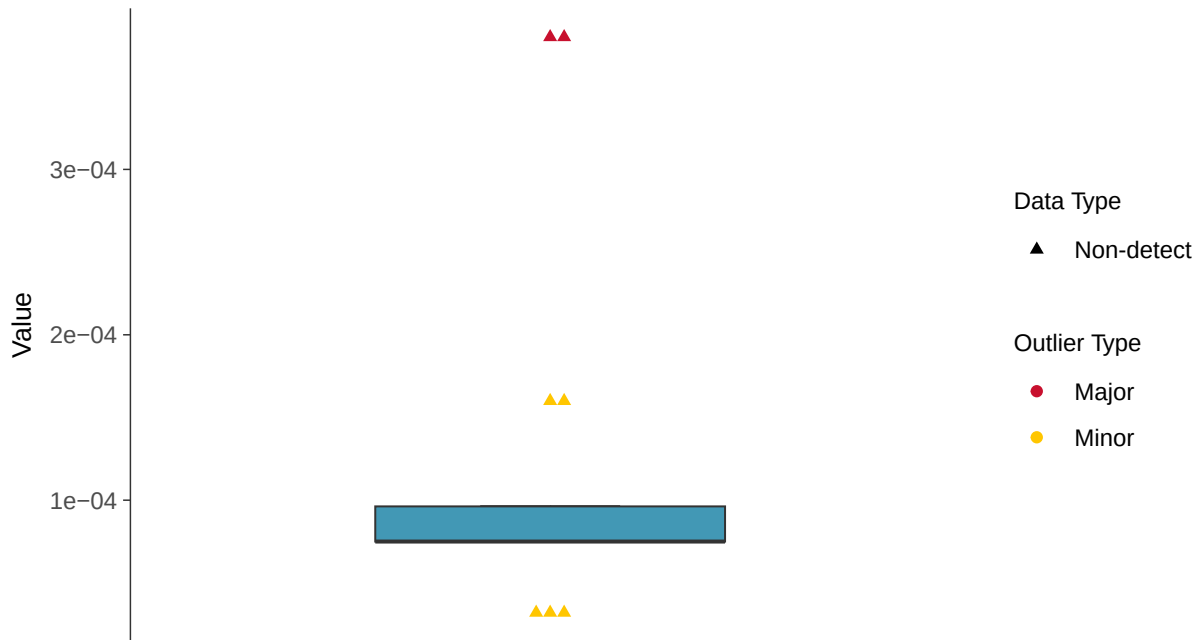
Appendix IV: Cadmium, MW-19

ID: 29_1_4_106



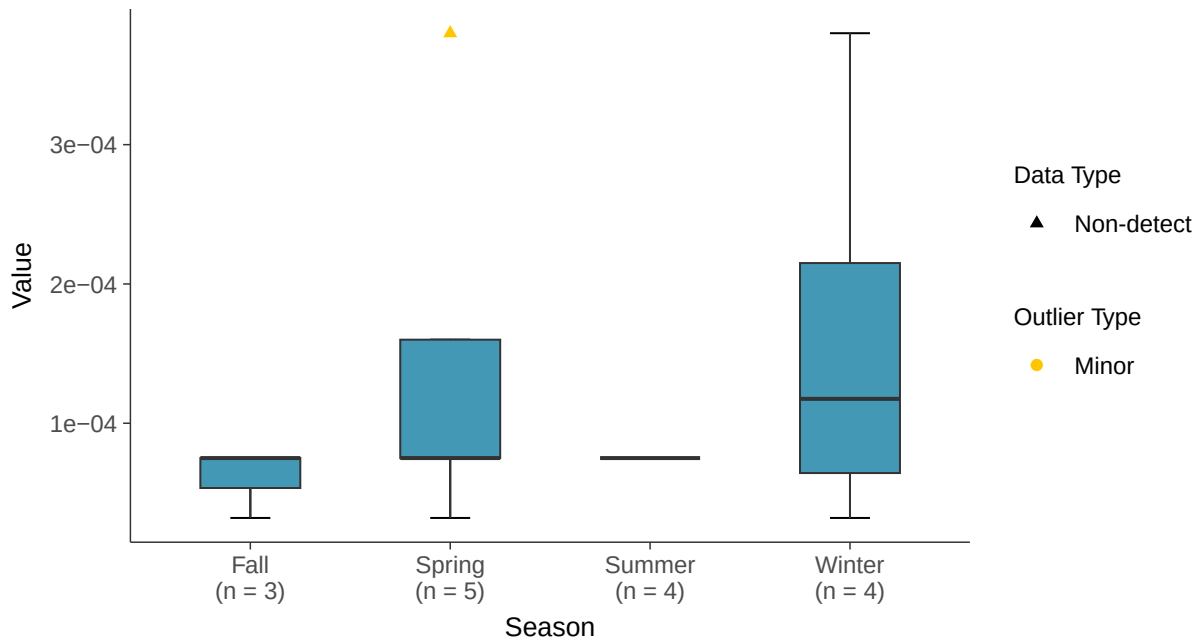
Boxplot

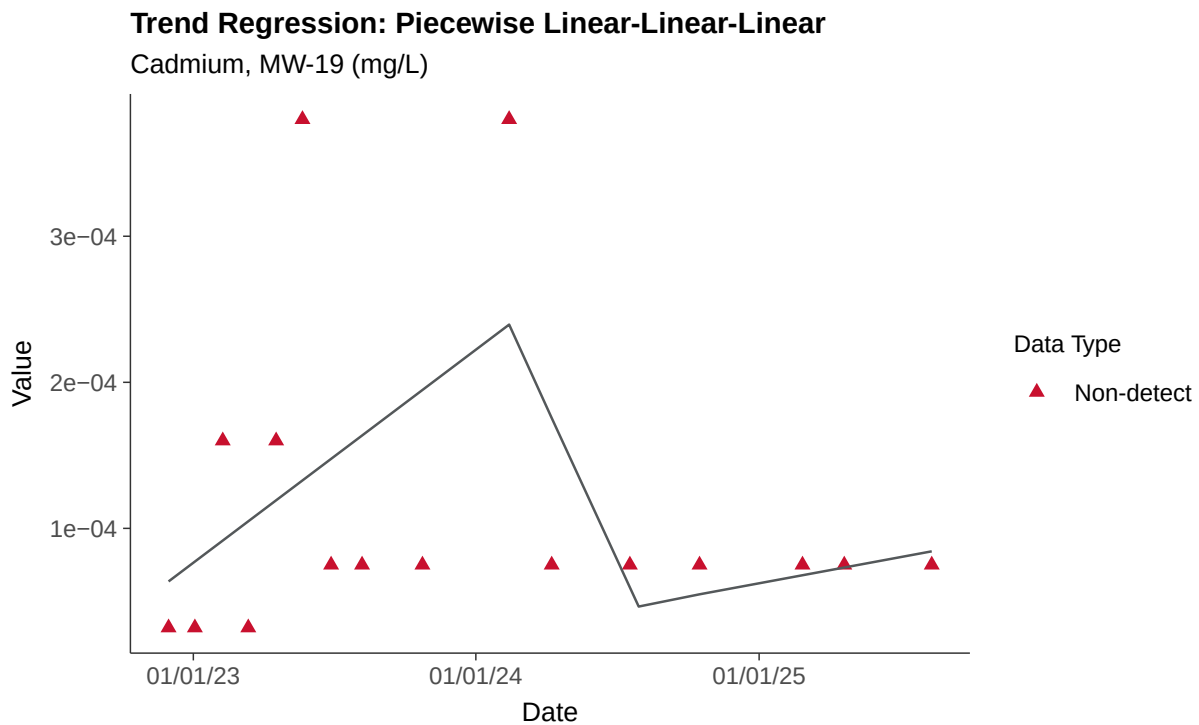
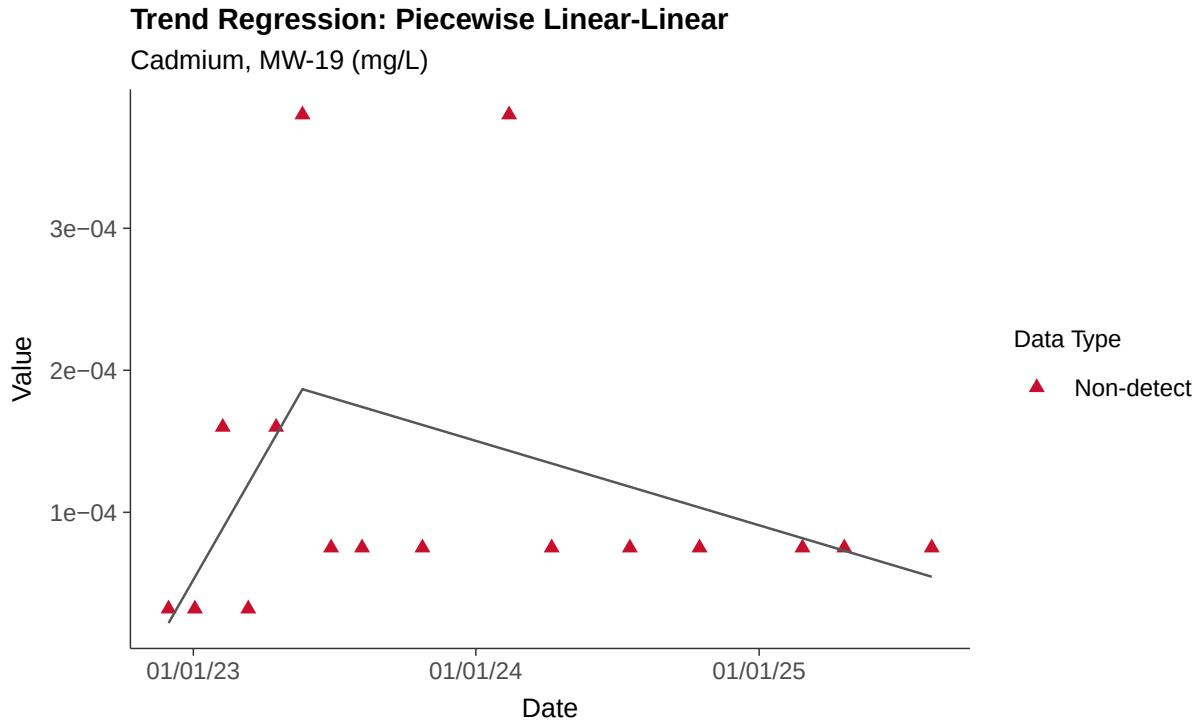
Cadmium, MW-19 (mg/L)



Boxplot by Season

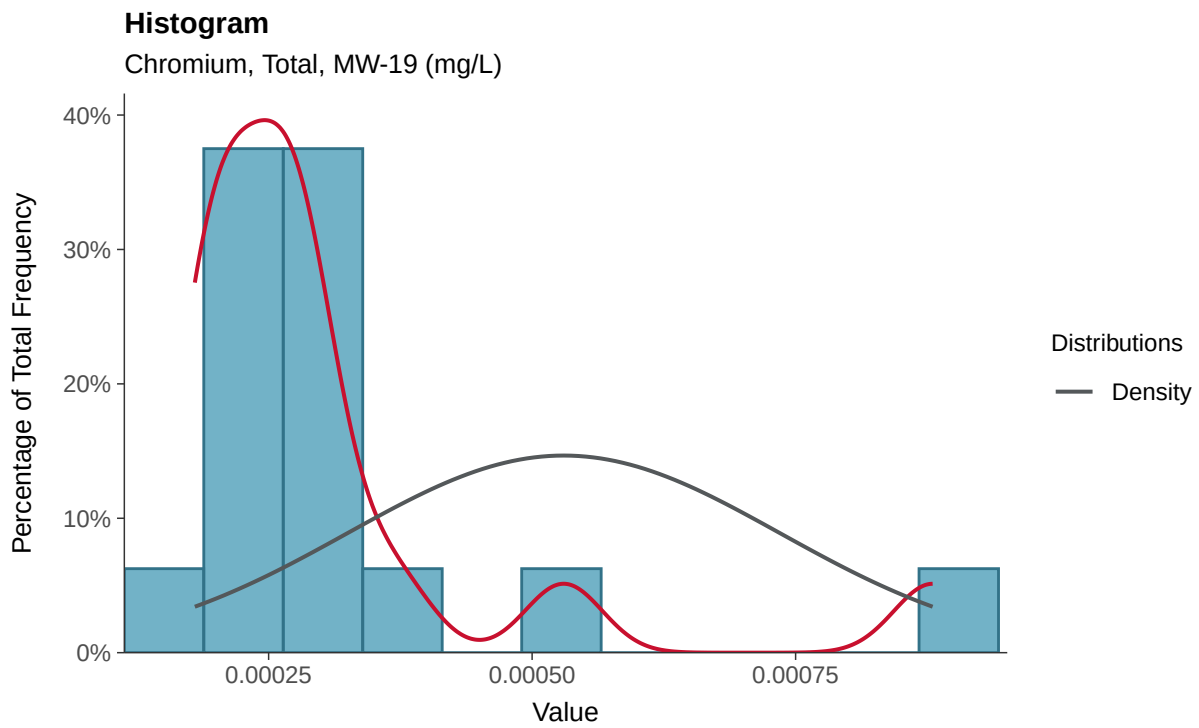
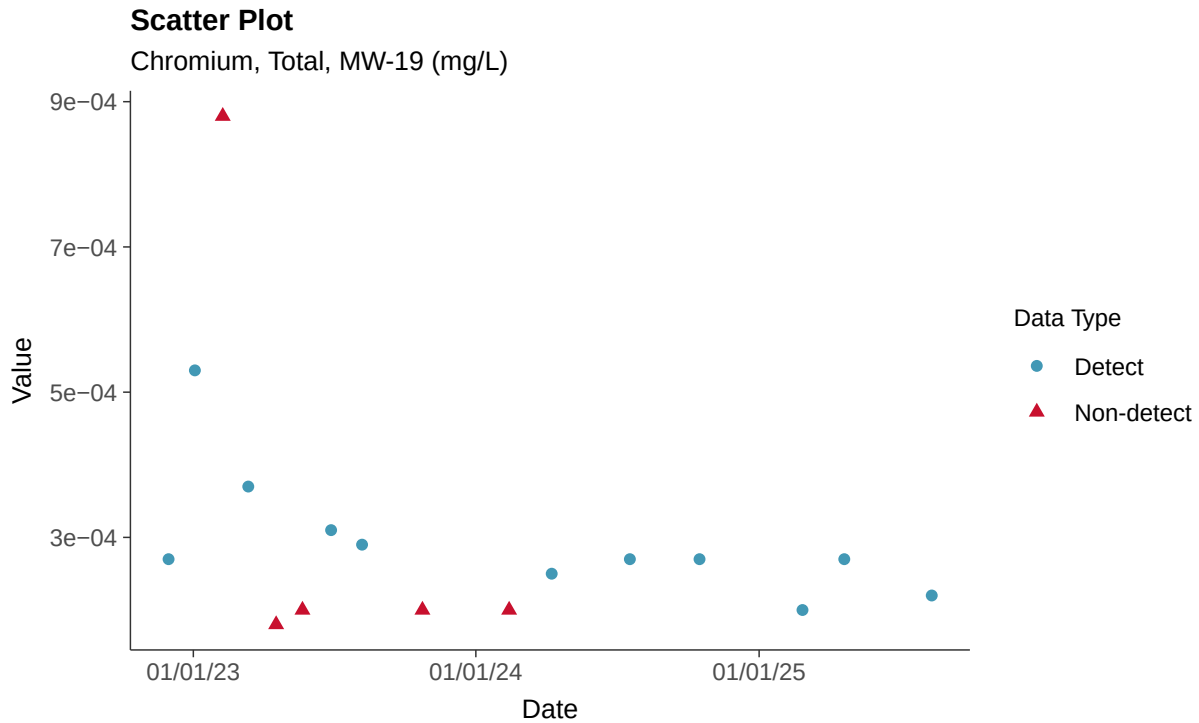
Cadmium, MW-19 (mg/L)





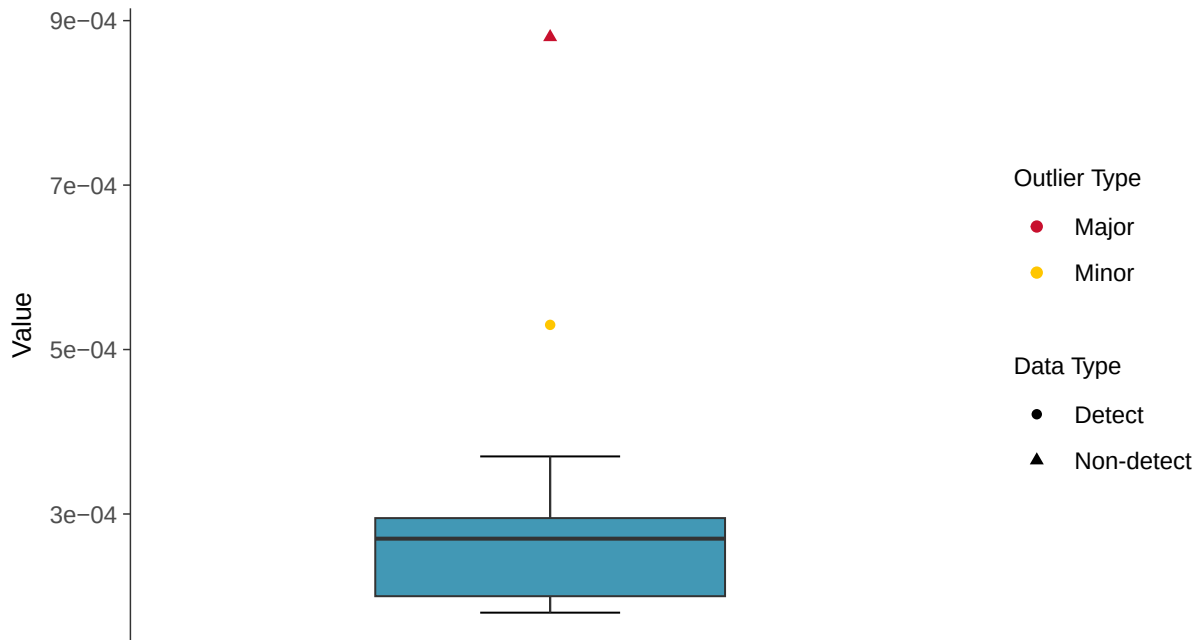
Appendix IV: Chromium, Total, MW-19

ID: 29_1_4_109



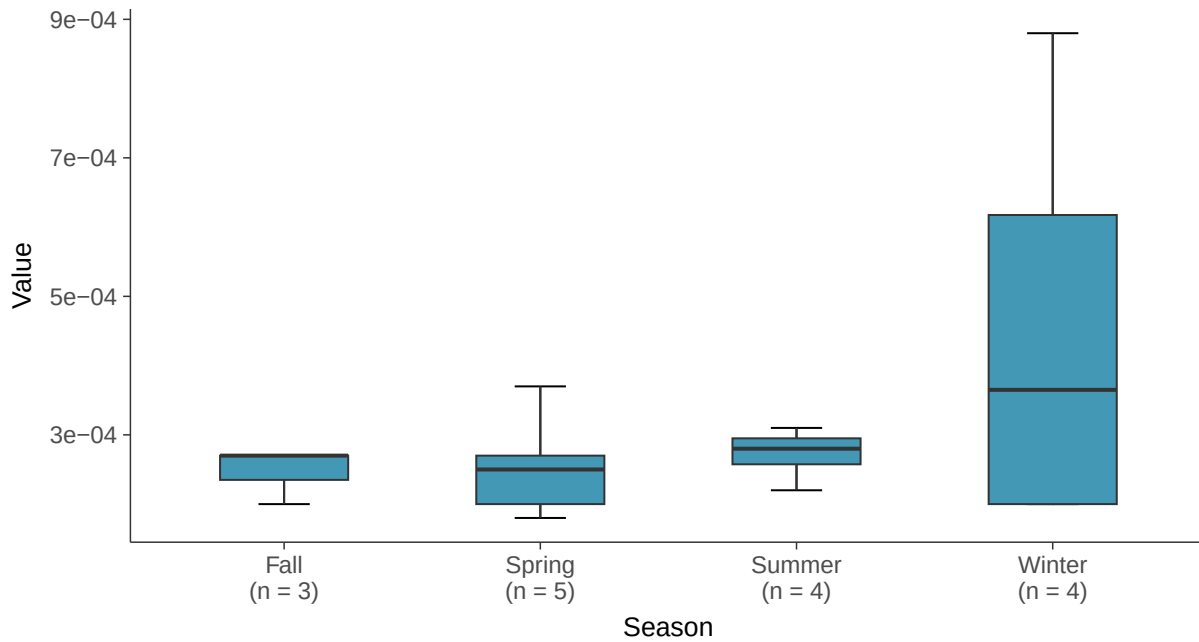
Boxplot

Chromium, Total, MW-19 (mg/L)



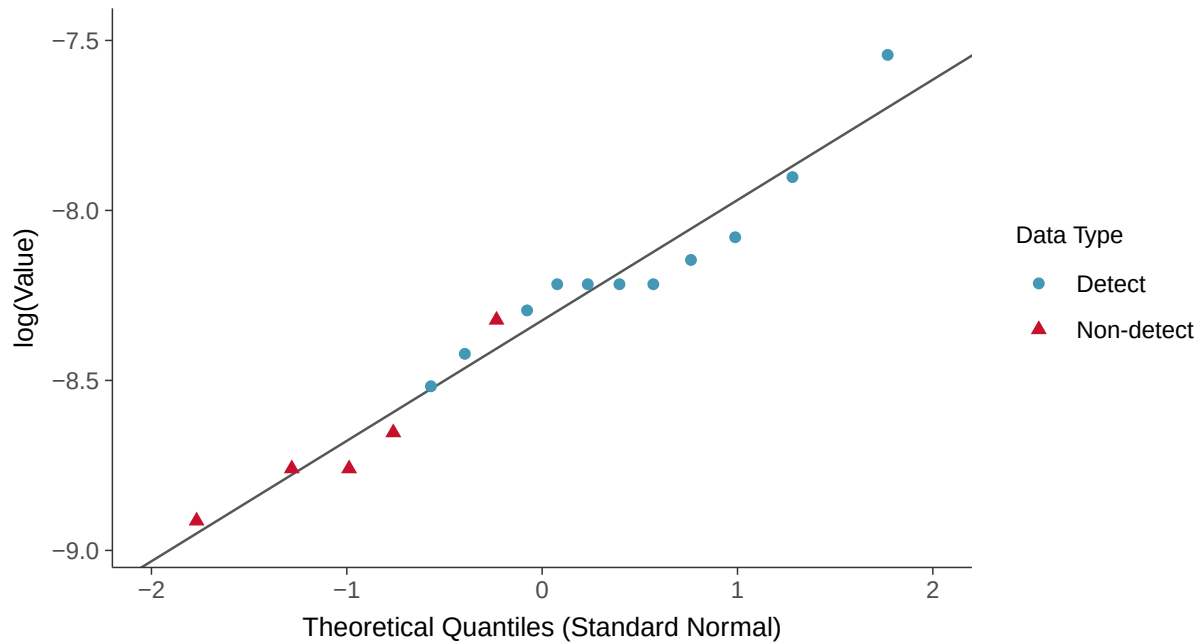
Boxplot by Season

Chromium, Total, MW-19 (mg/L)



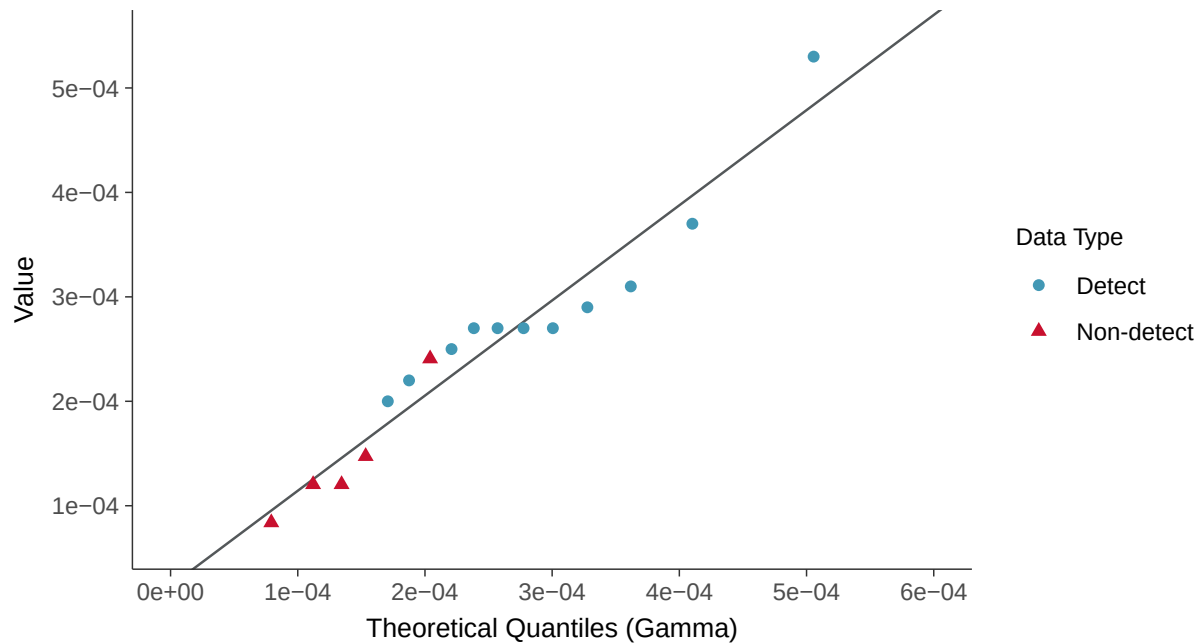
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-19 (mg/L)

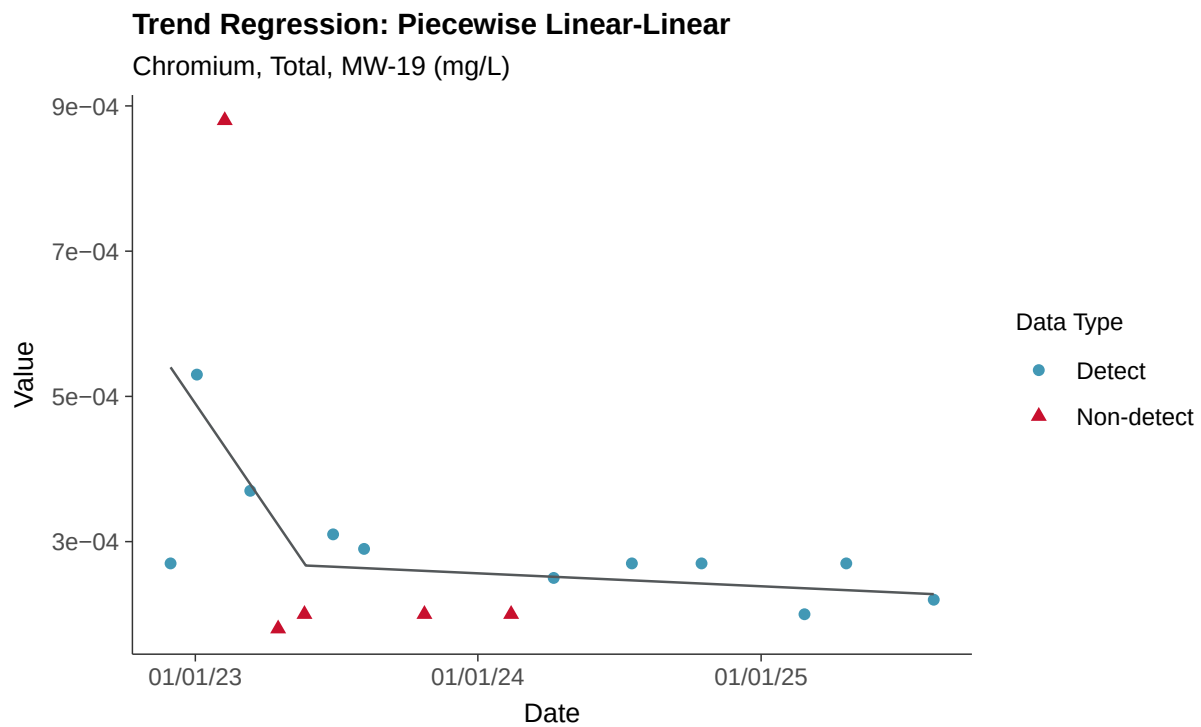


Gamma Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-19 (mg/L)

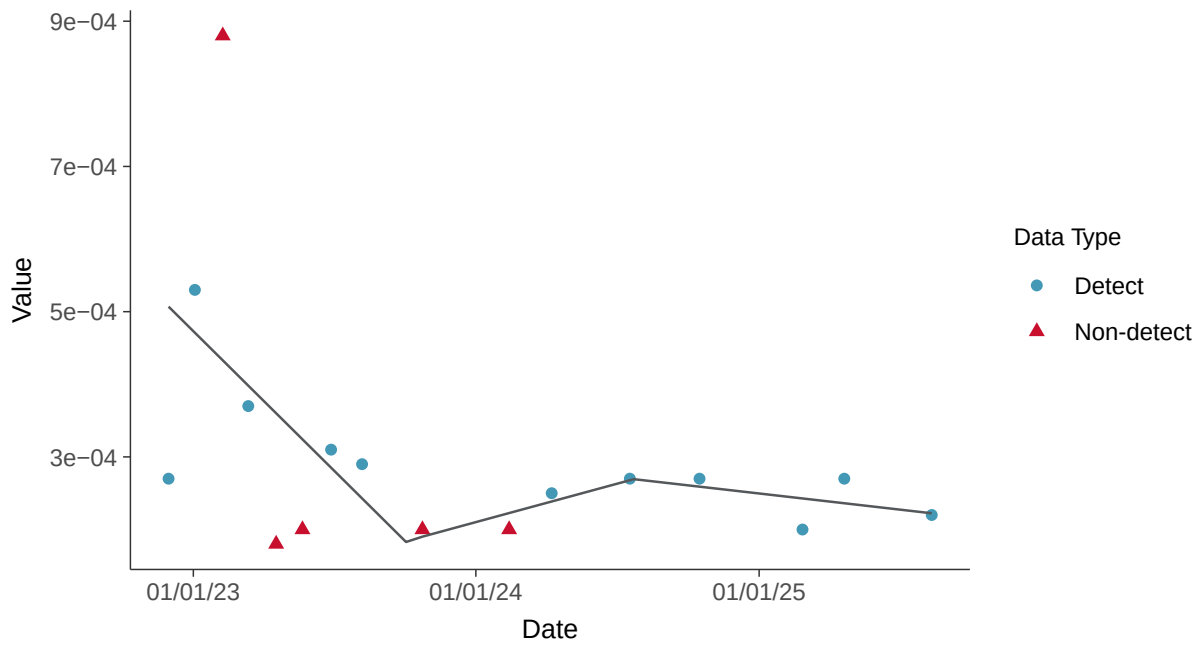


Chromium, Total, MW-19 (mg/L)



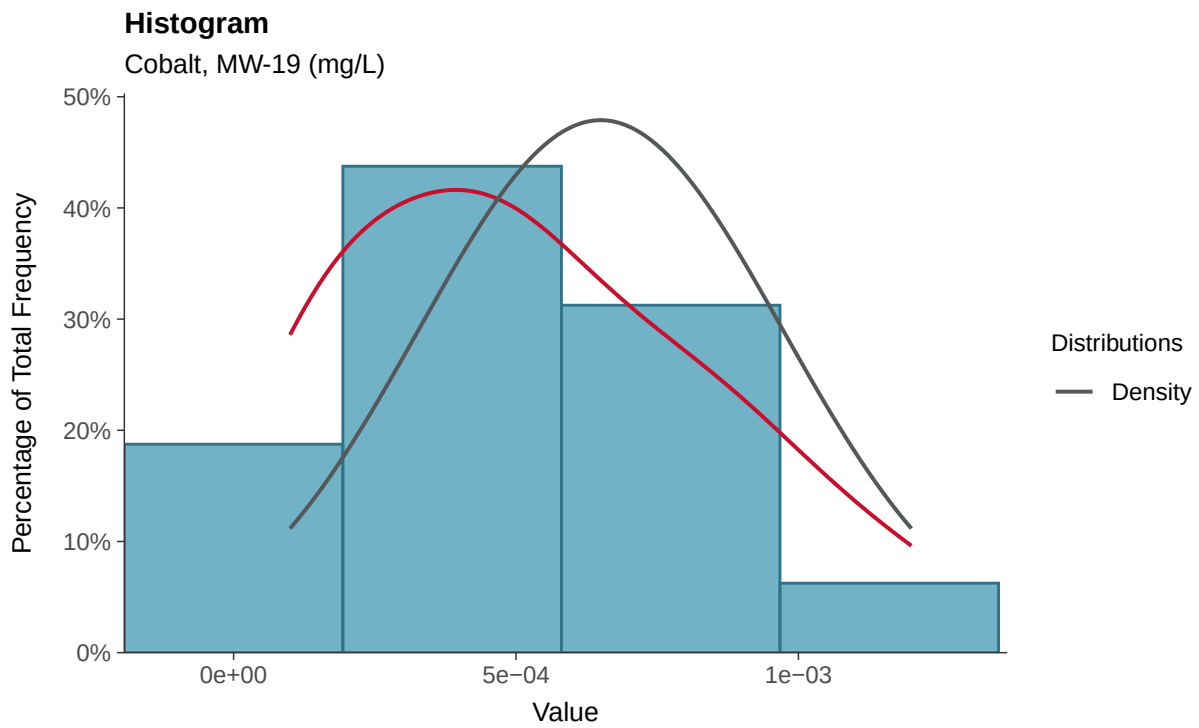
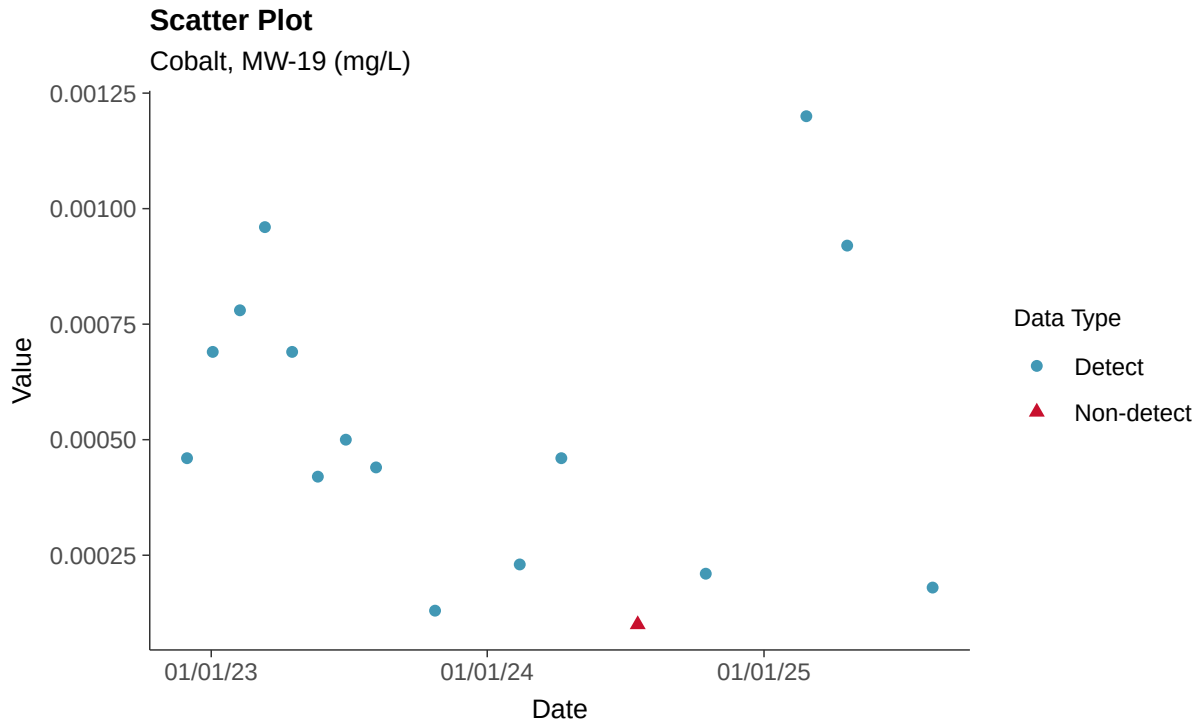


Trend Regression: Piecewise Linear-Linear-Linear
Chromium, Total, MW-19 (mg/L)



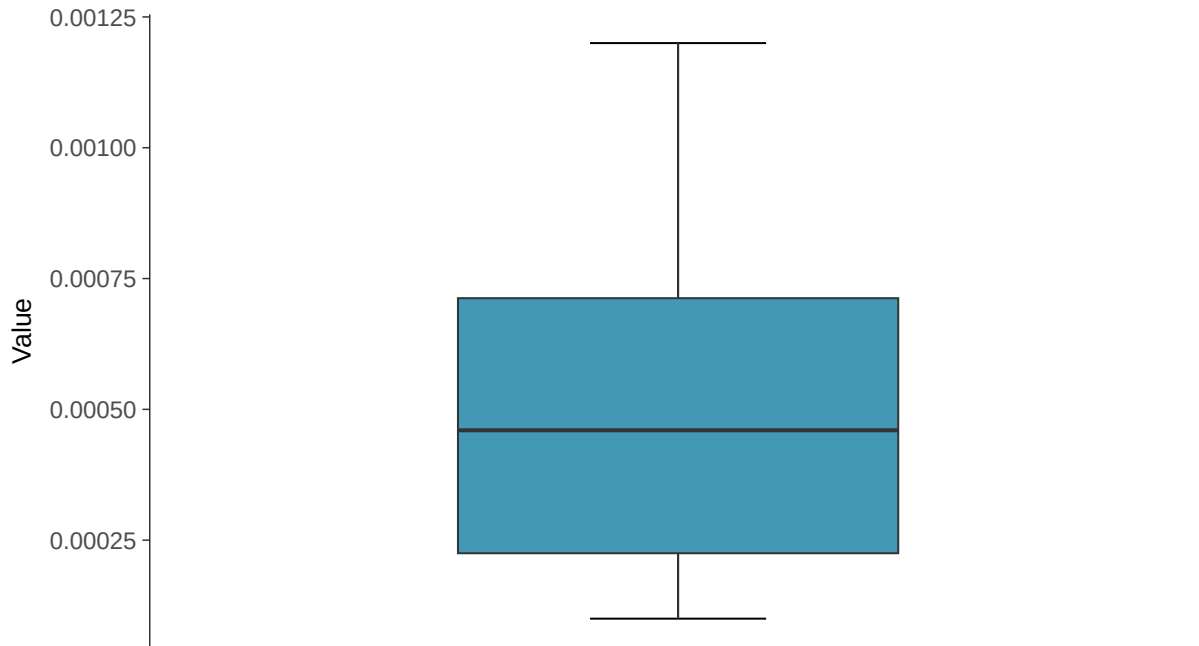
Appendix IV: Cobalt, MW-19

ID: 29_1_4_110



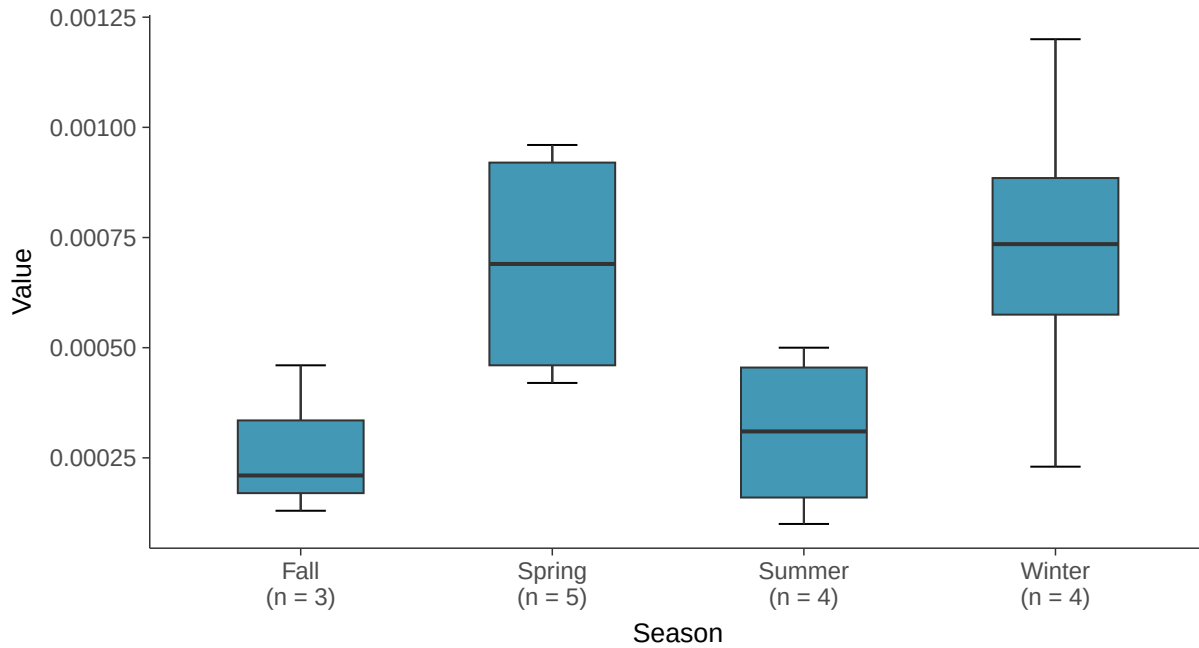
Boxplot

Cobalt, MW-19 (mg/L)



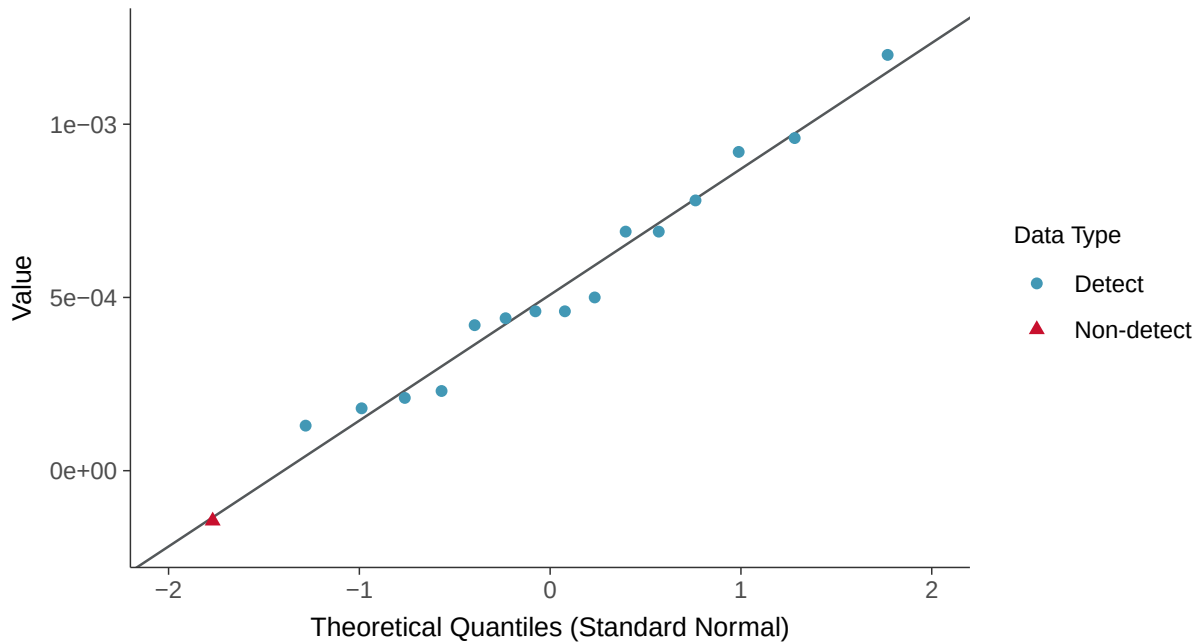
Boxplot by Season

Cobalt, MW-19 (mg/L)



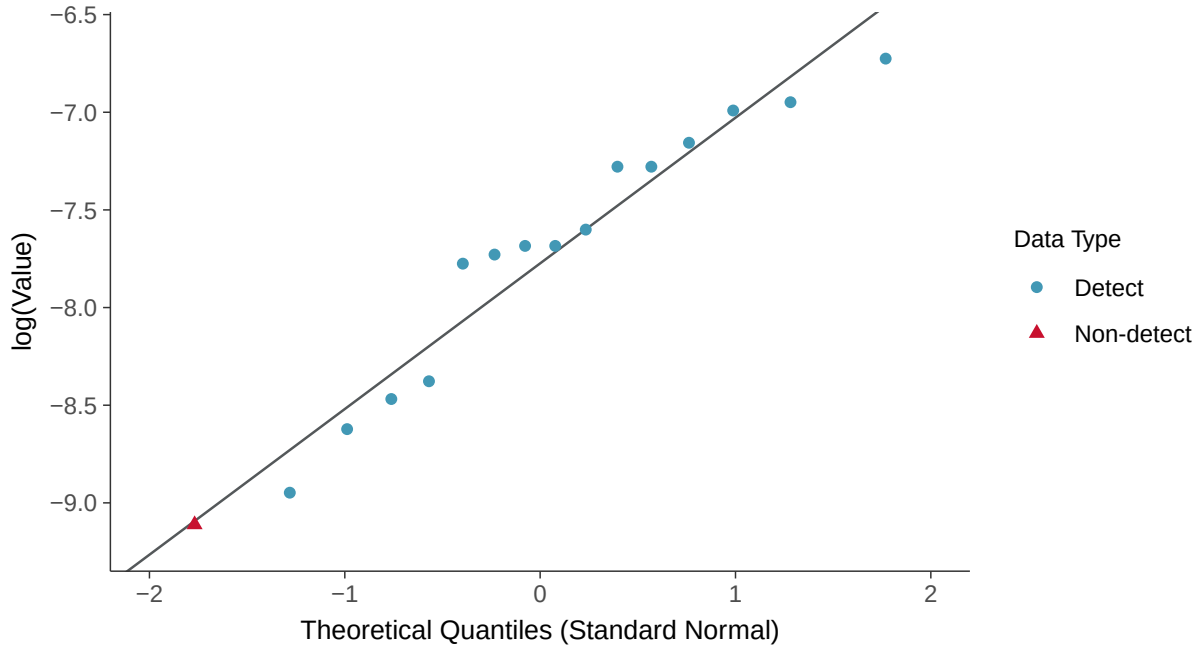
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



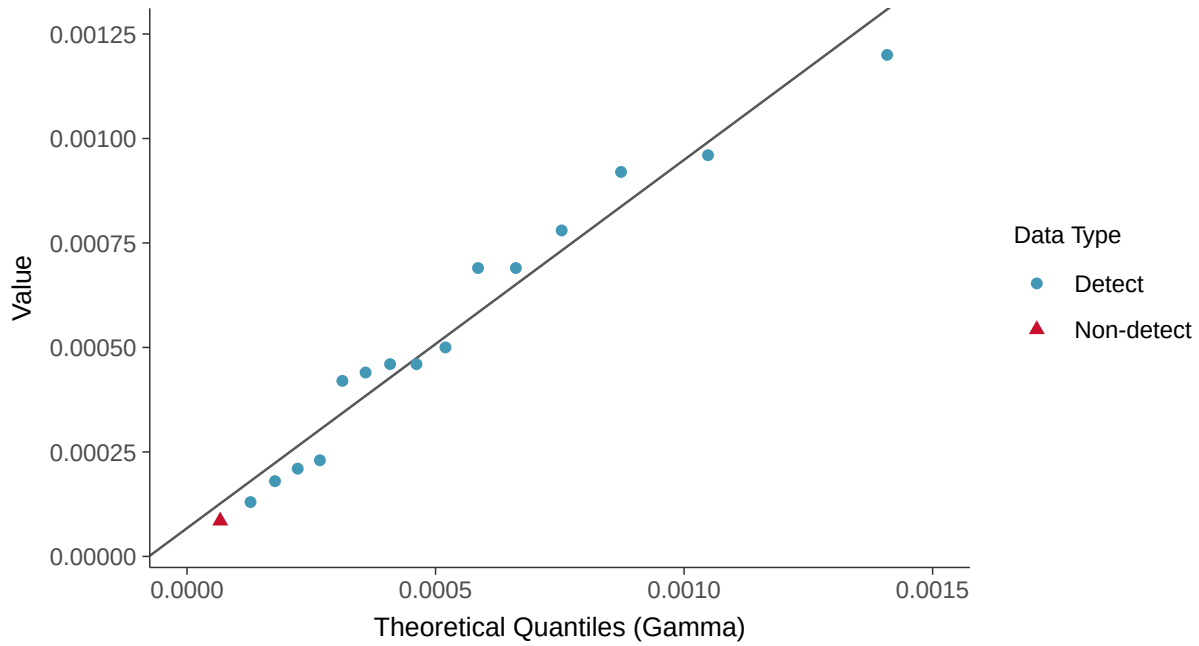
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



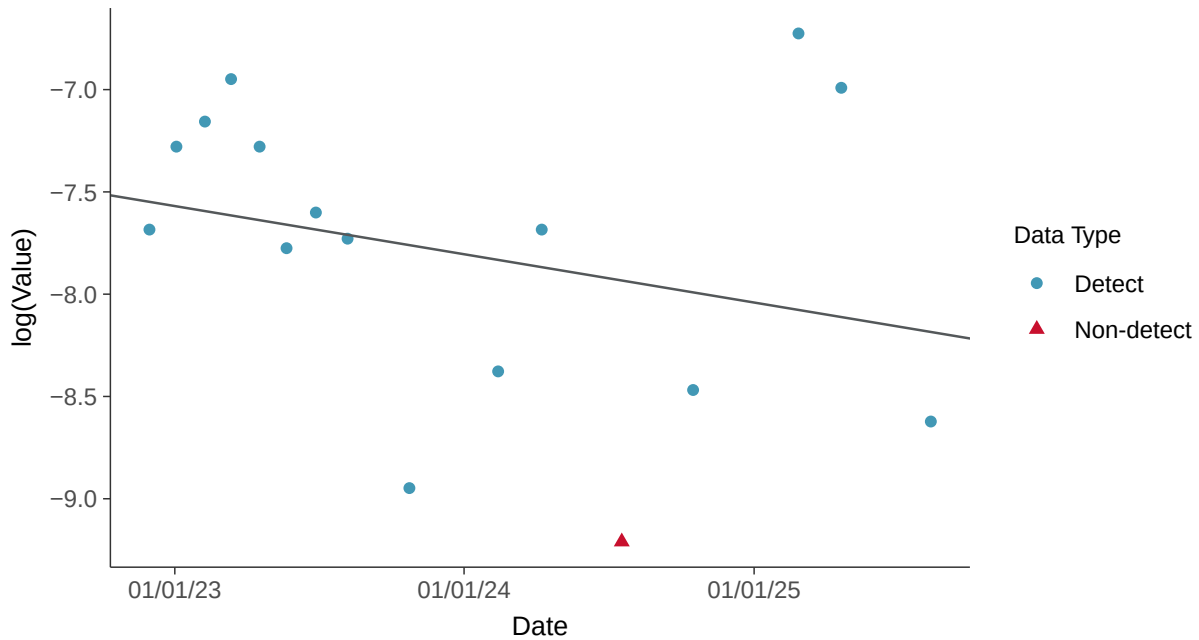
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



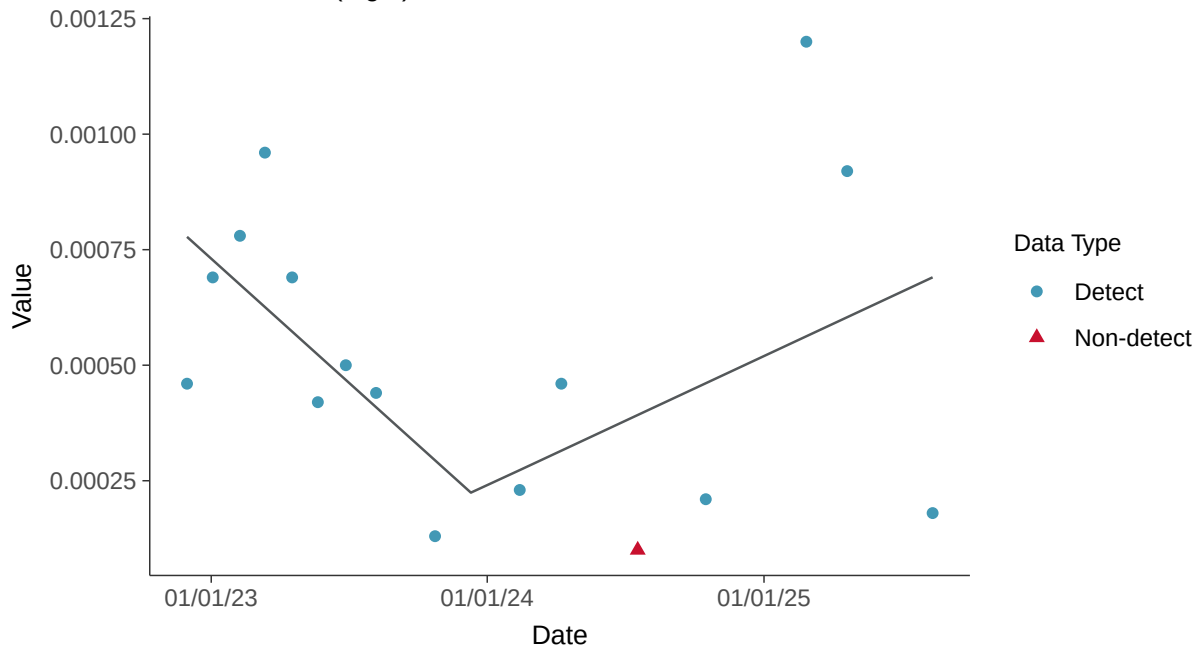
Trend Regression: Lognormal MLE

Cobalt, MW-19 (mg/L)



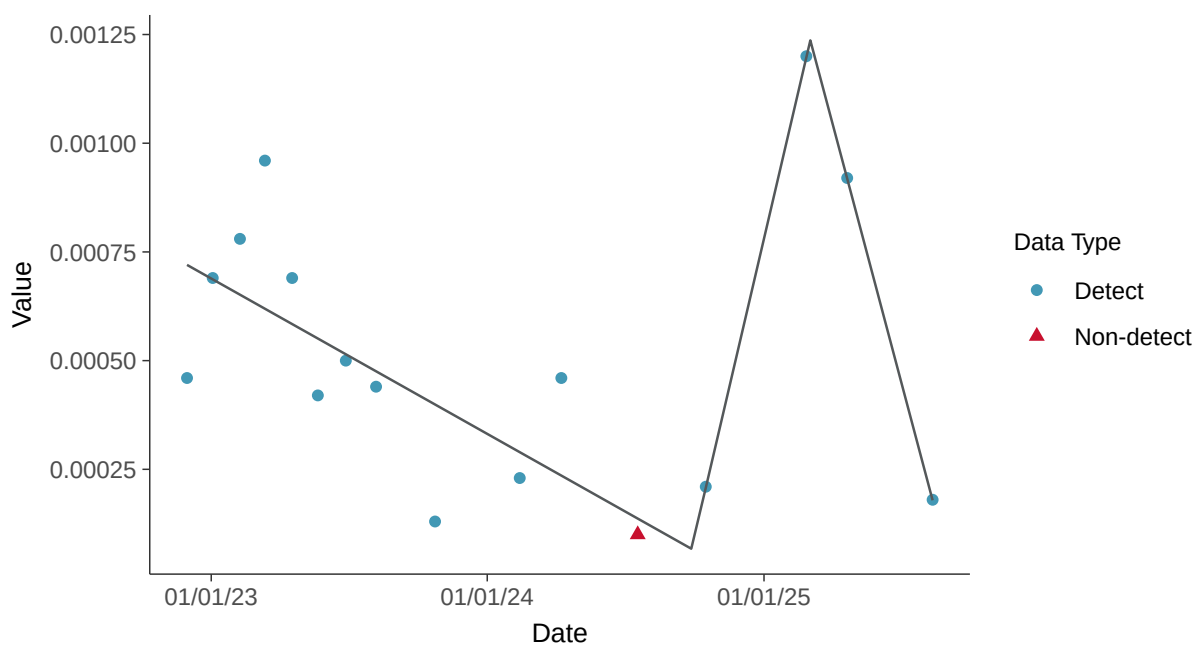
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-19 (mg/L)



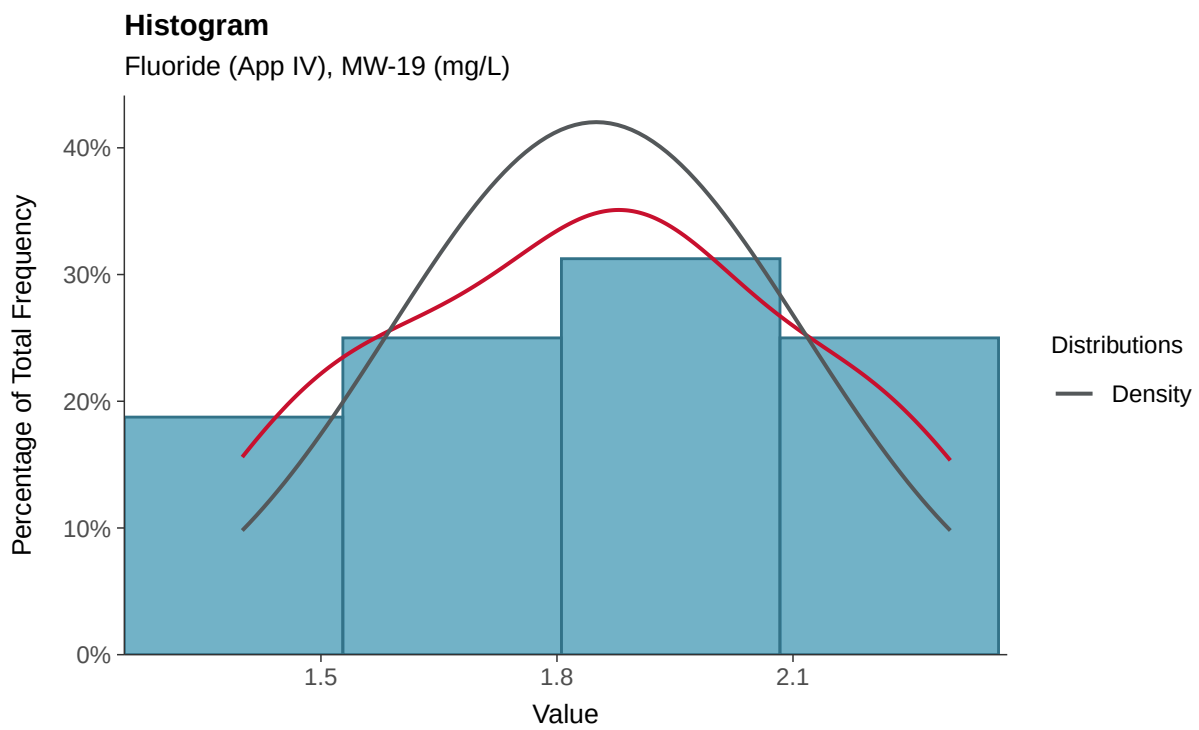
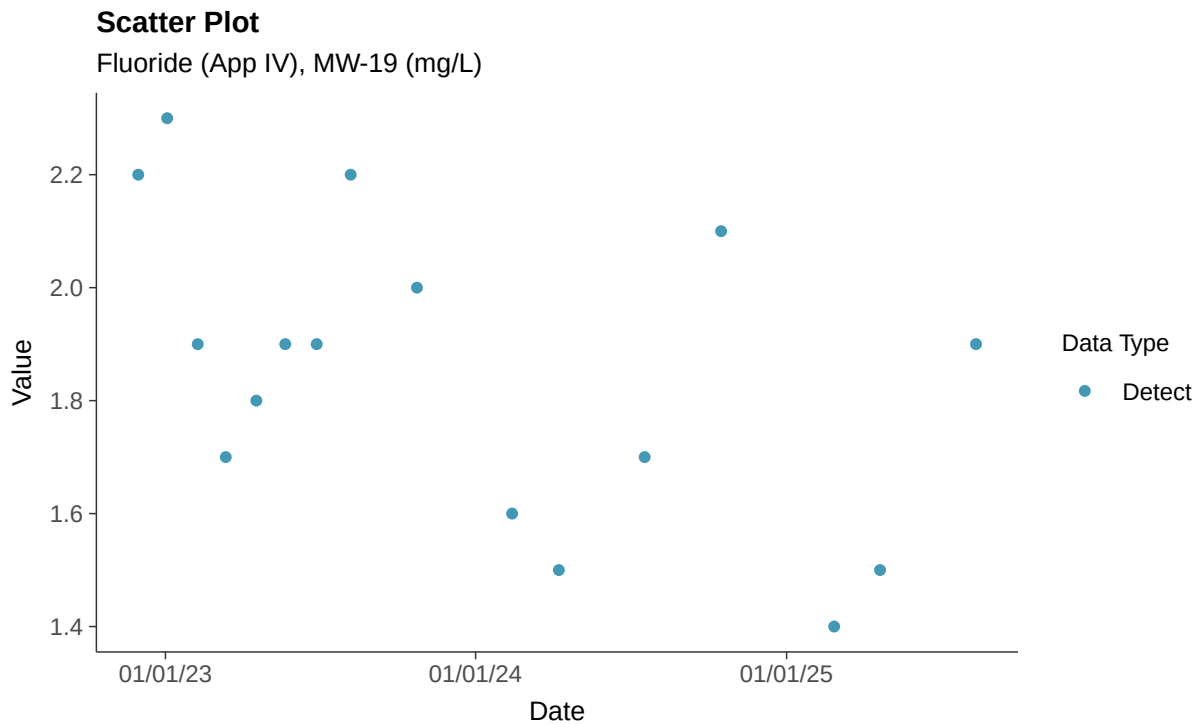
Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-19 (mg/L)



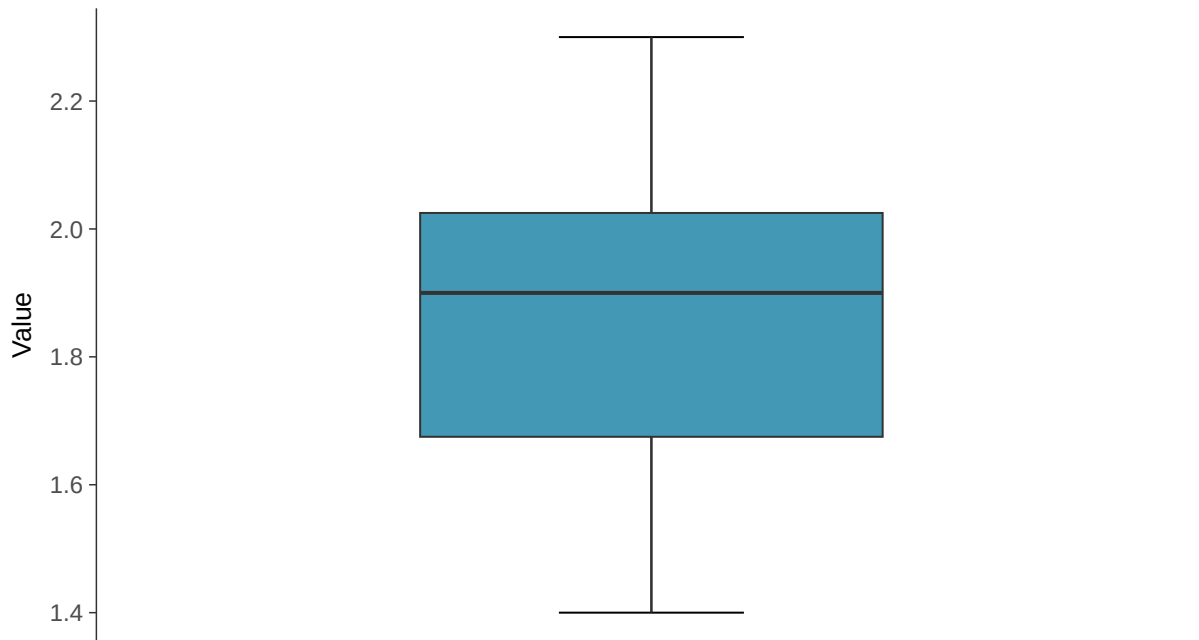
Appendix IV: Fluoride (App IV), MW-19

ID: 29_1_4_113



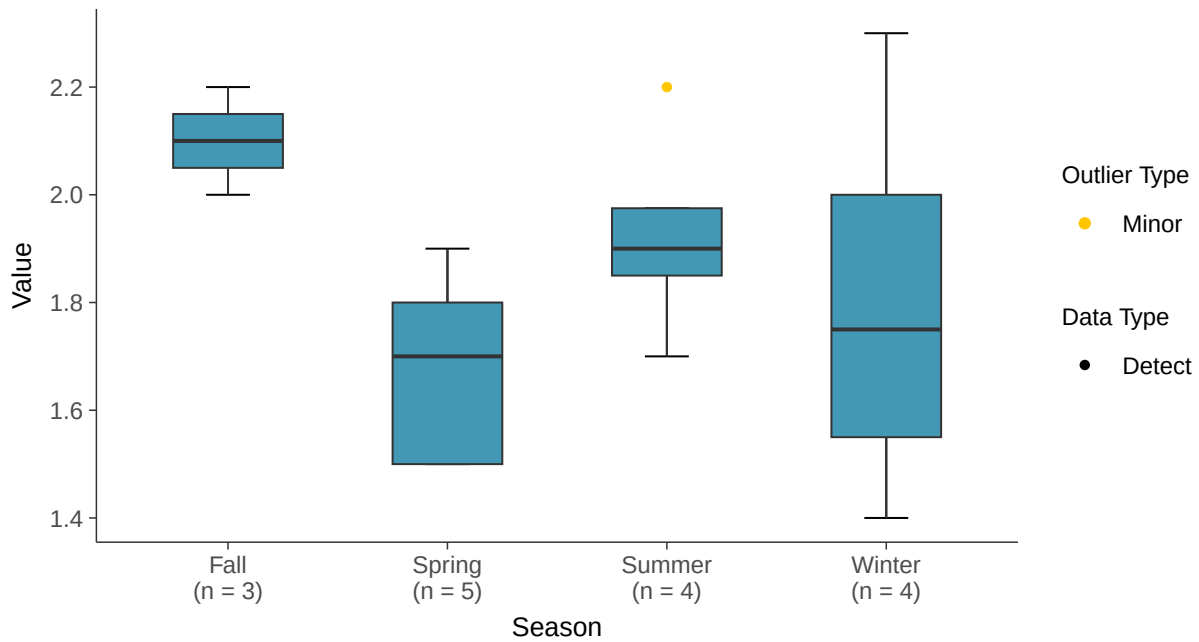
Boxplot

Fluoride (App IV), MW-19 (mg/L)



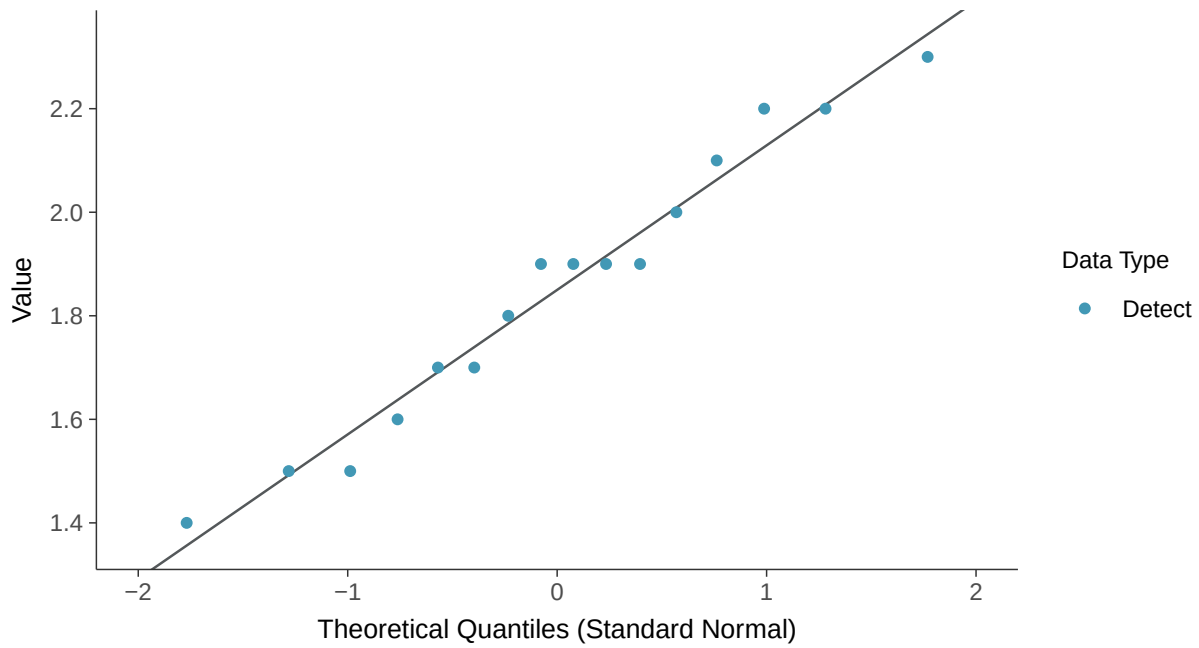
Boxplot by Season

Fluoride (App IV), MW-19 (mg/L)



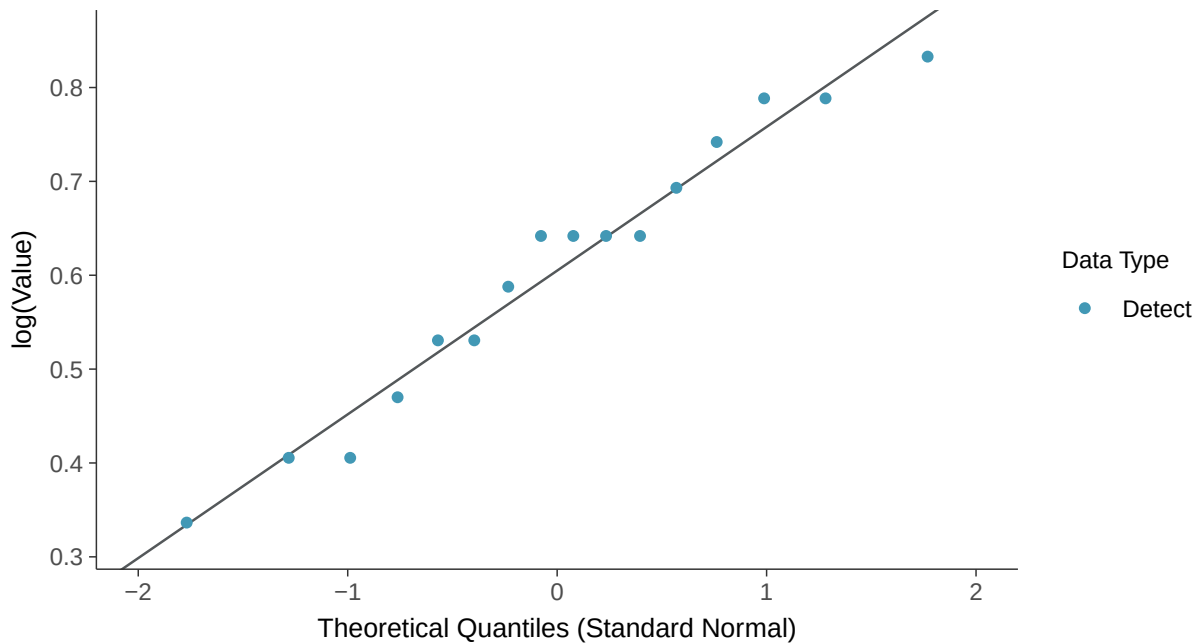
Normal Q-Q plot

Fluoride (App IV), MW-19 (mg/L)



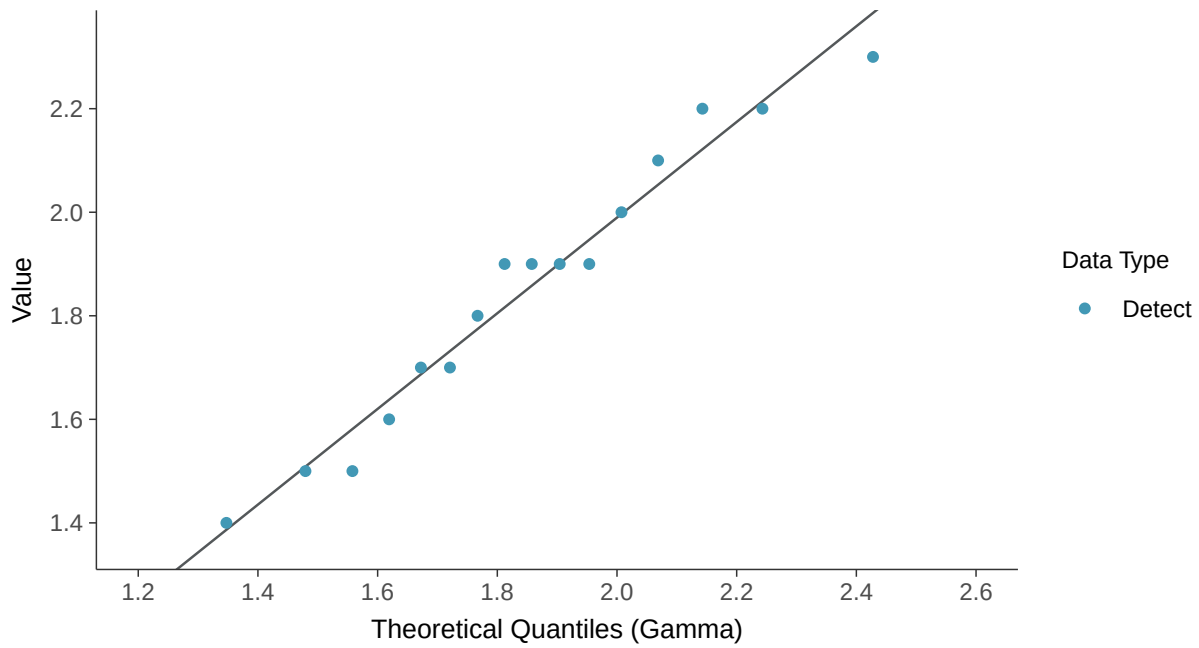
Lognormal Q-Q plot

Fluoride (App IV), MW-19 (mg/L)



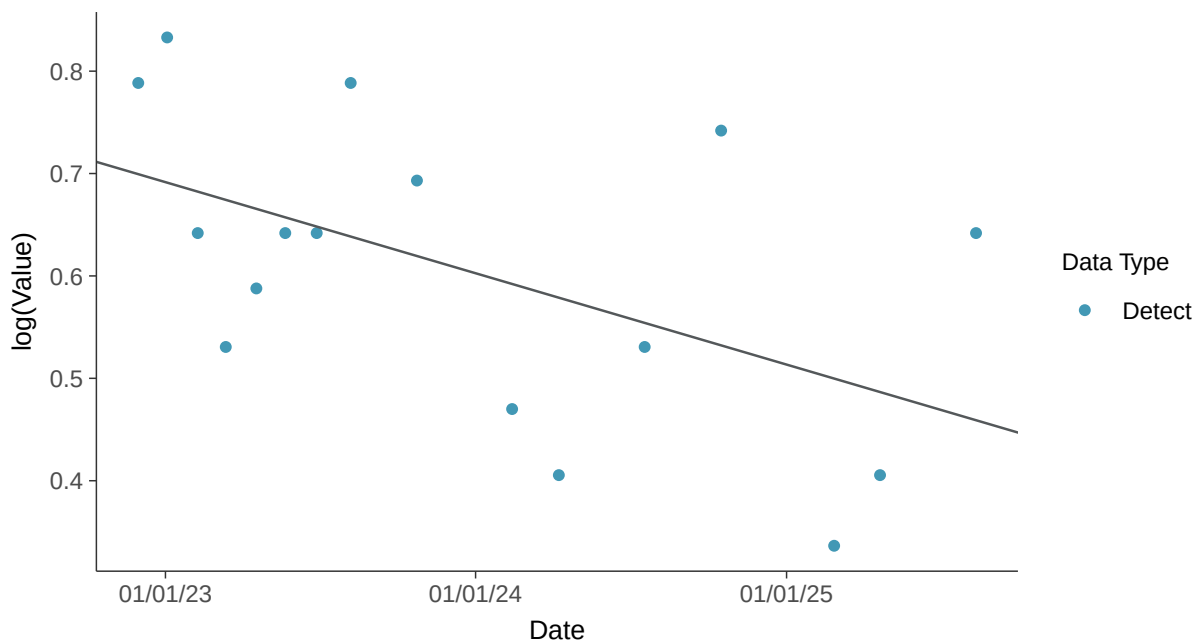
Gamma Q-Q plot

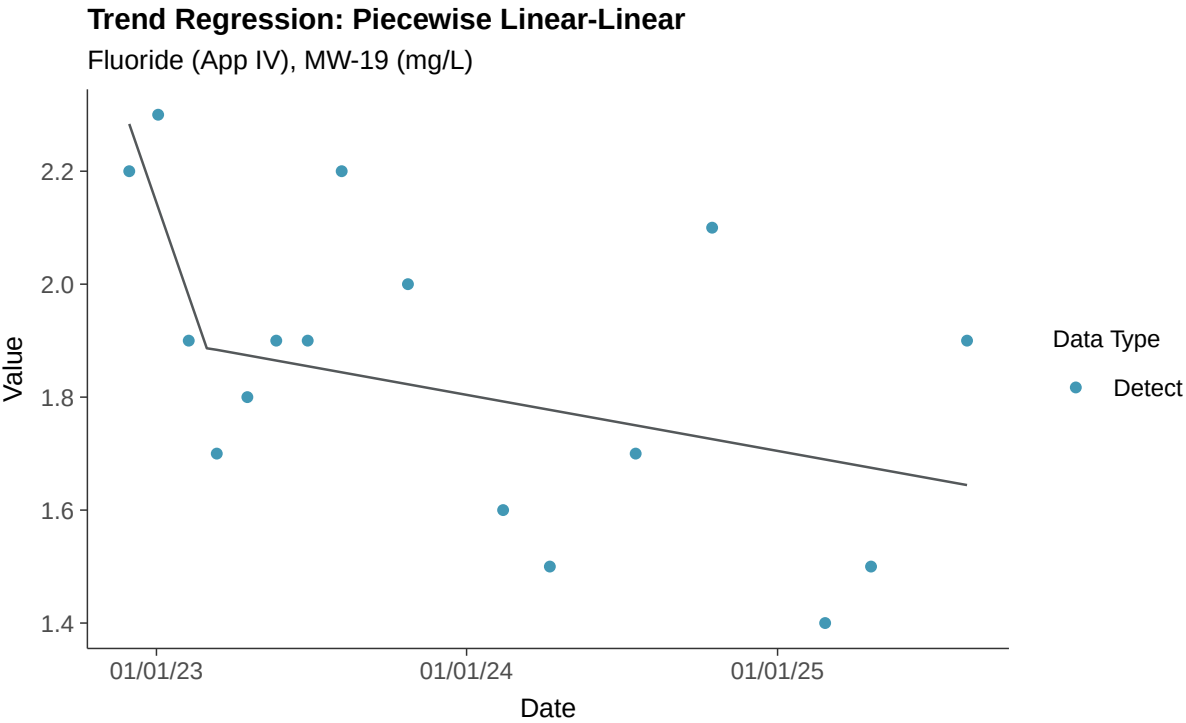
Fluoride (App IV), MW-19 (mg/L)

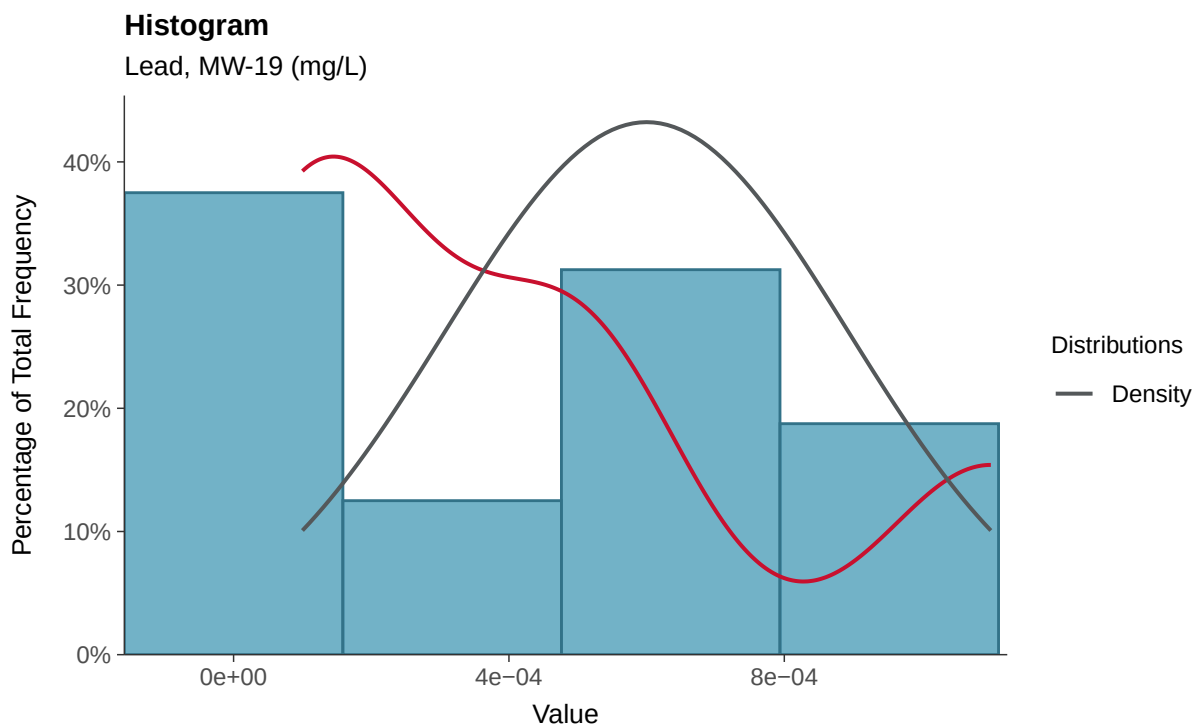


Trend Regression: Lognormal MLE

Fluoride (App IV), MW-19 (mg/L)

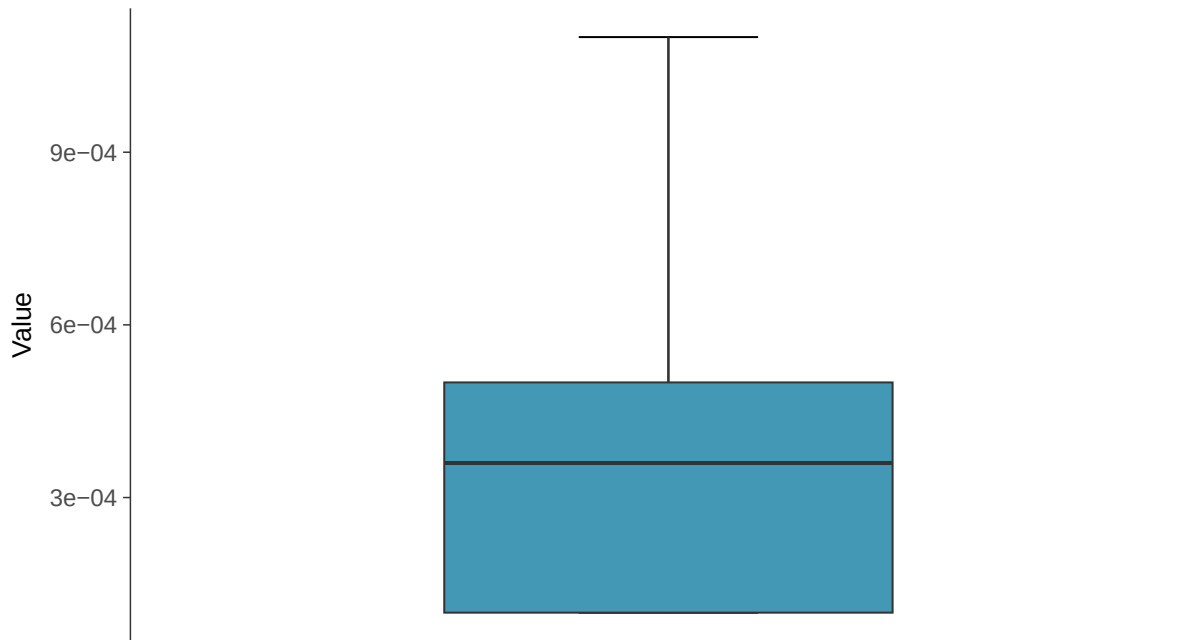






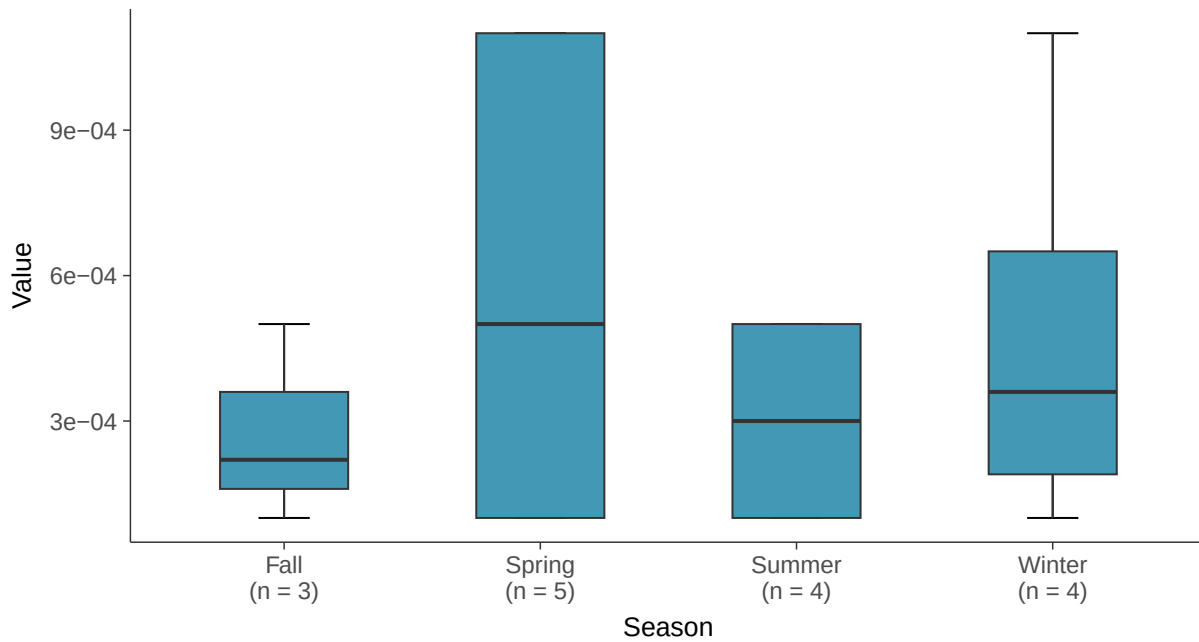
Boxplot

Lead, MW-19 (mg/L)

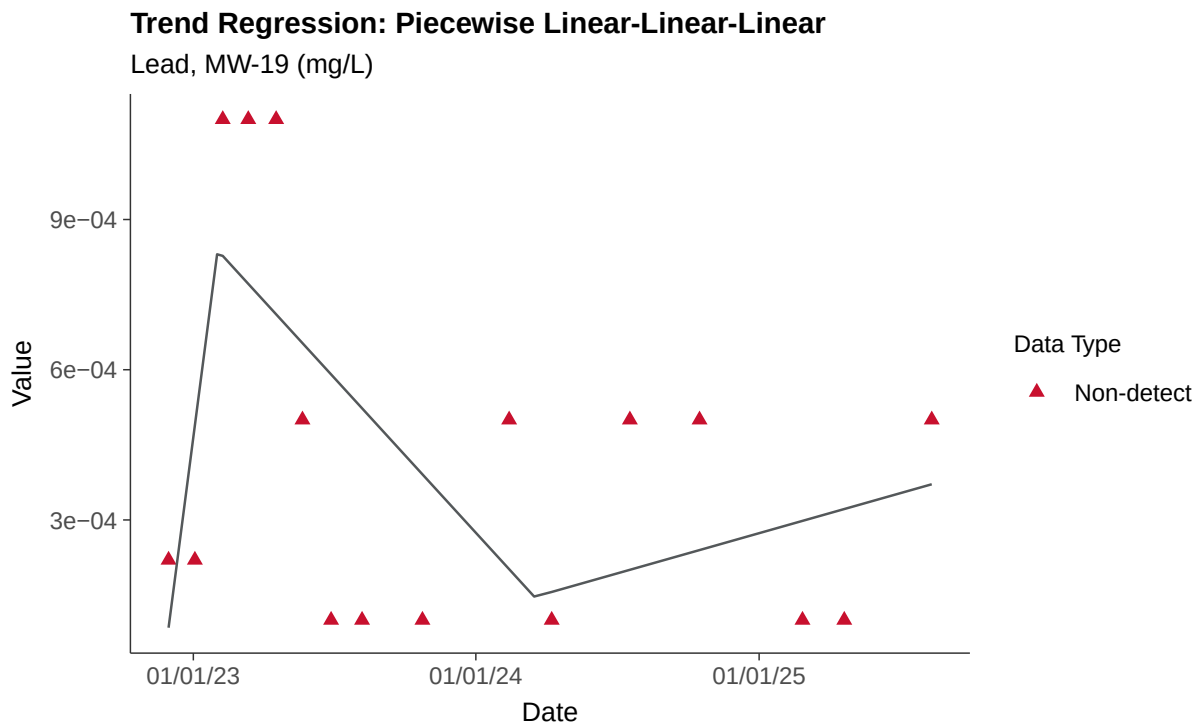


Boxplot by Season

Lead, MW-19 (mg/L)

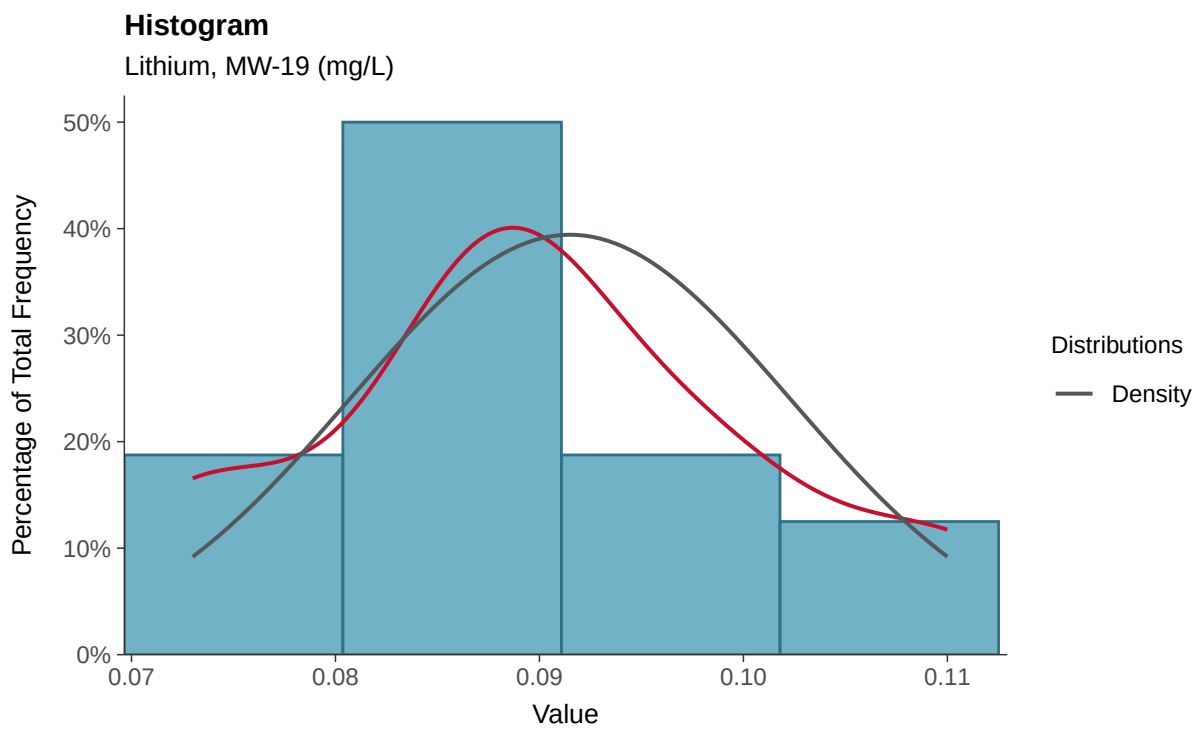
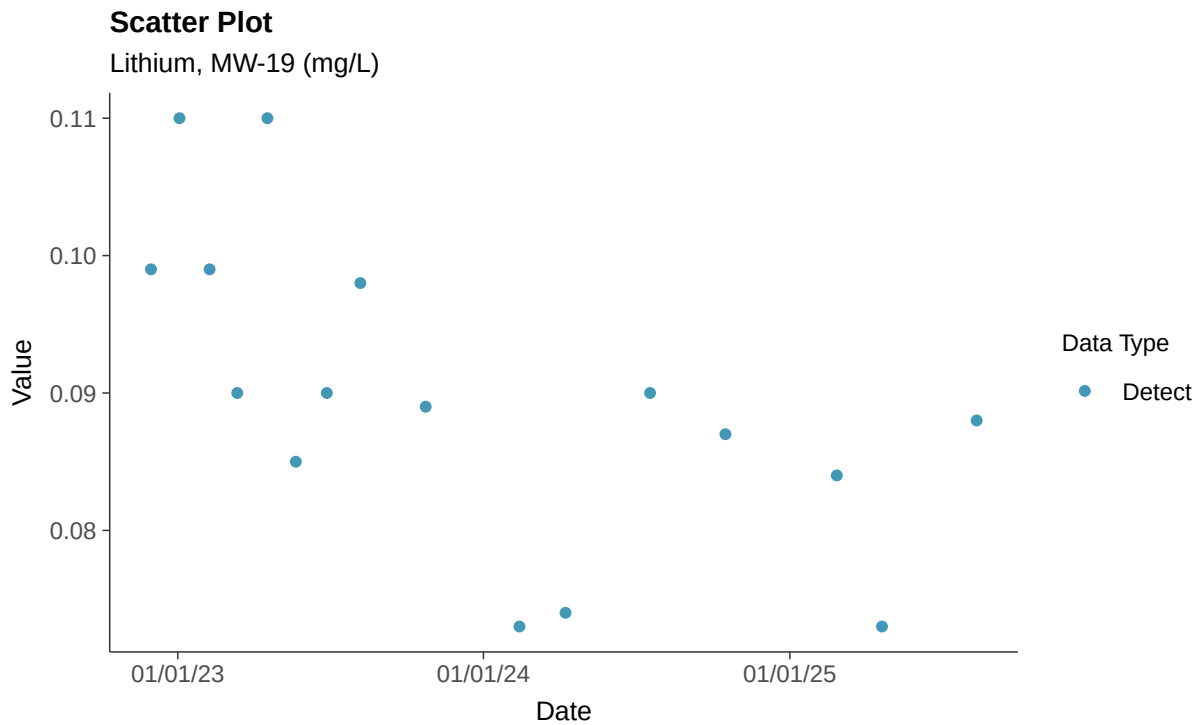


Lead, MW-19 (mg/L)



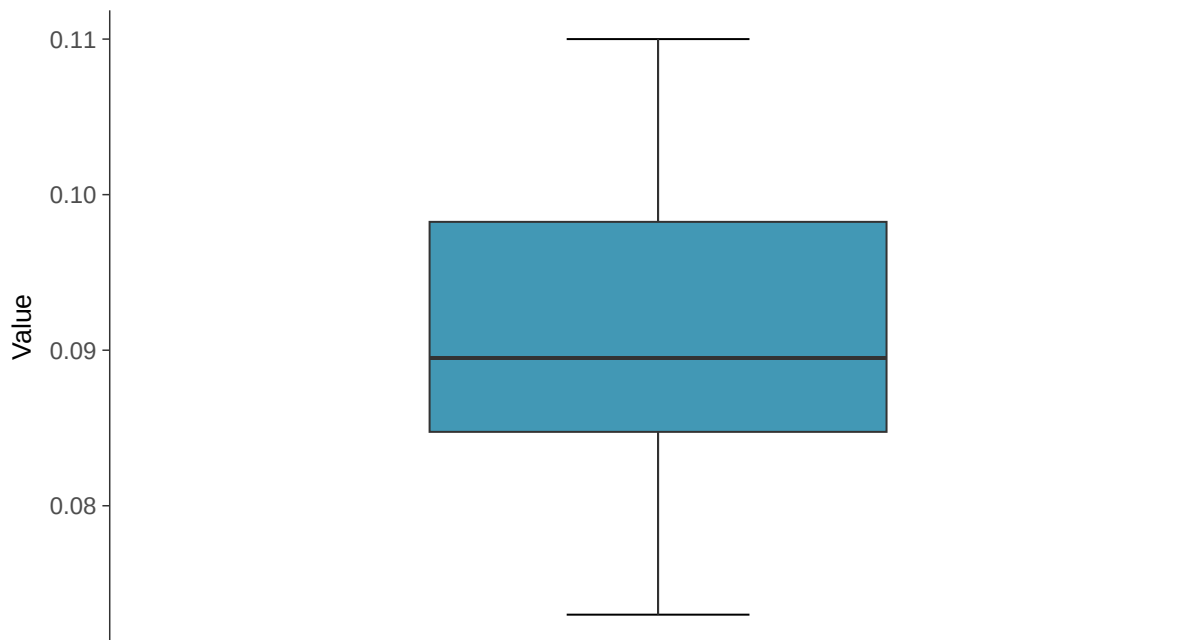
Appendix IV: Lithium, MW-19

ID: 29_1_4_116



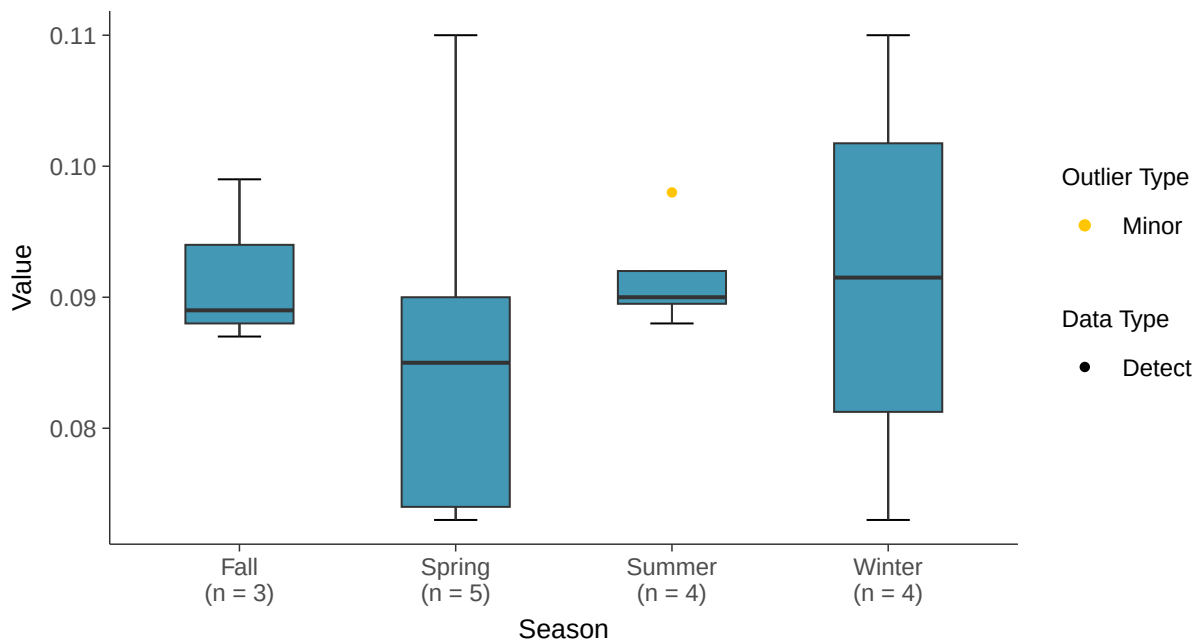
Boxplot

Lithium, MW-19 (mg/L)



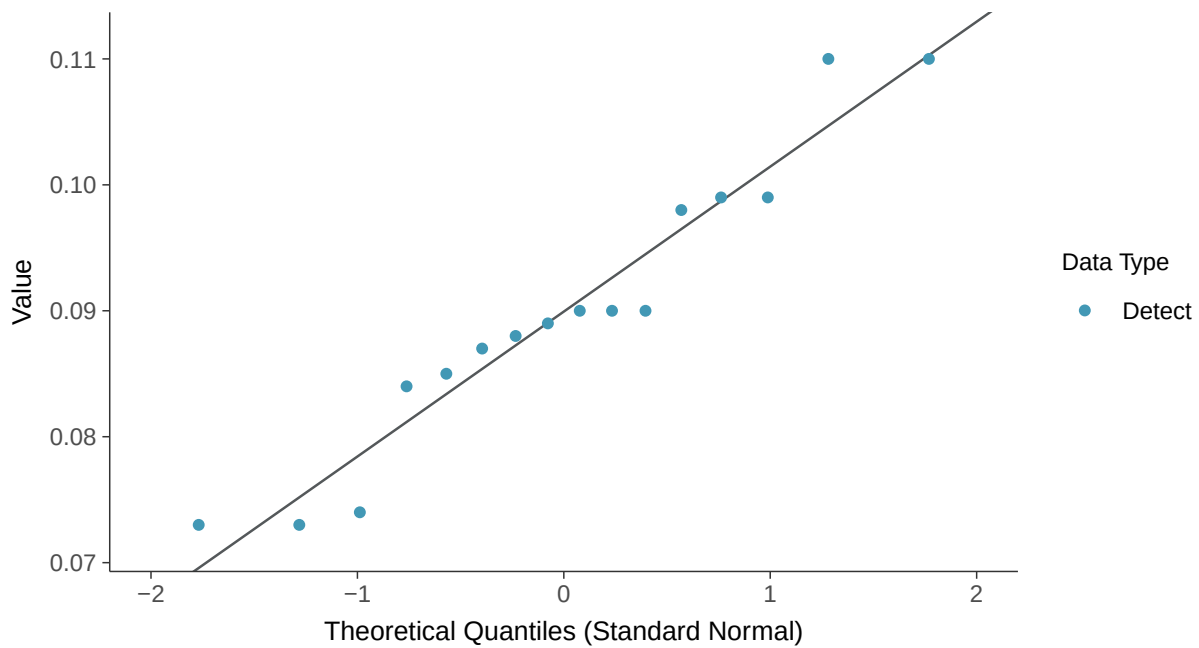
Boxplot by Season

Lithium, MW-19 (mg/L)



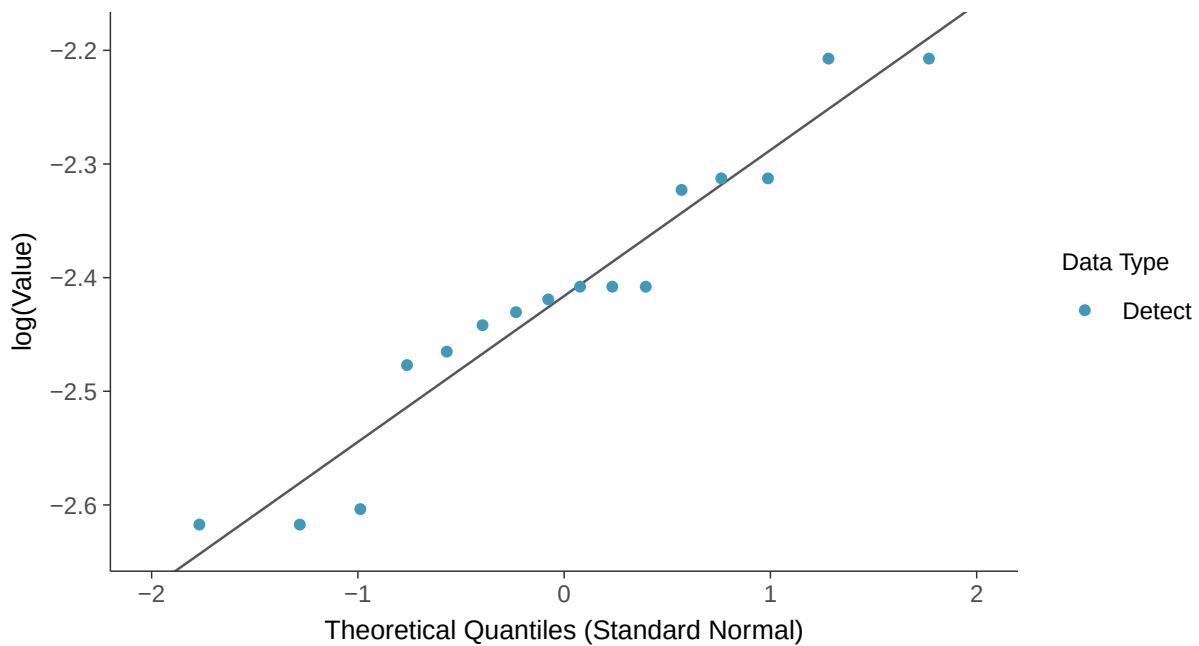
Normal Q-Q plot

Lithium, MW-19 (mg/L)



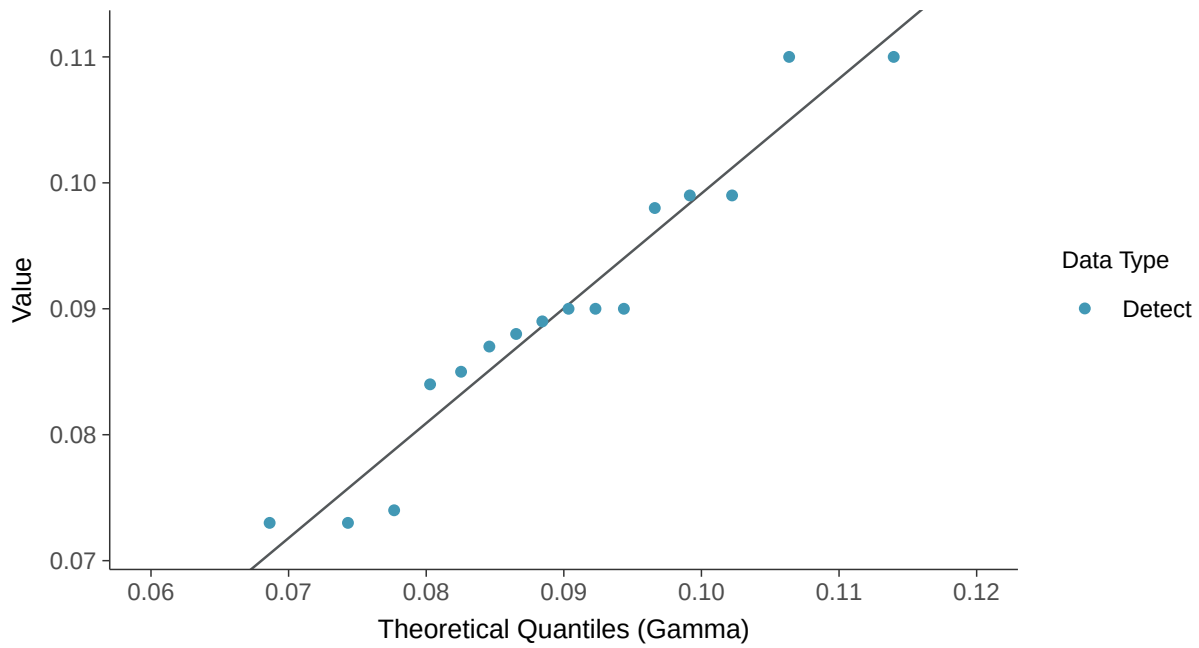
Lognormal Q-Q plot

Lithium, MW-19 (mg/L)



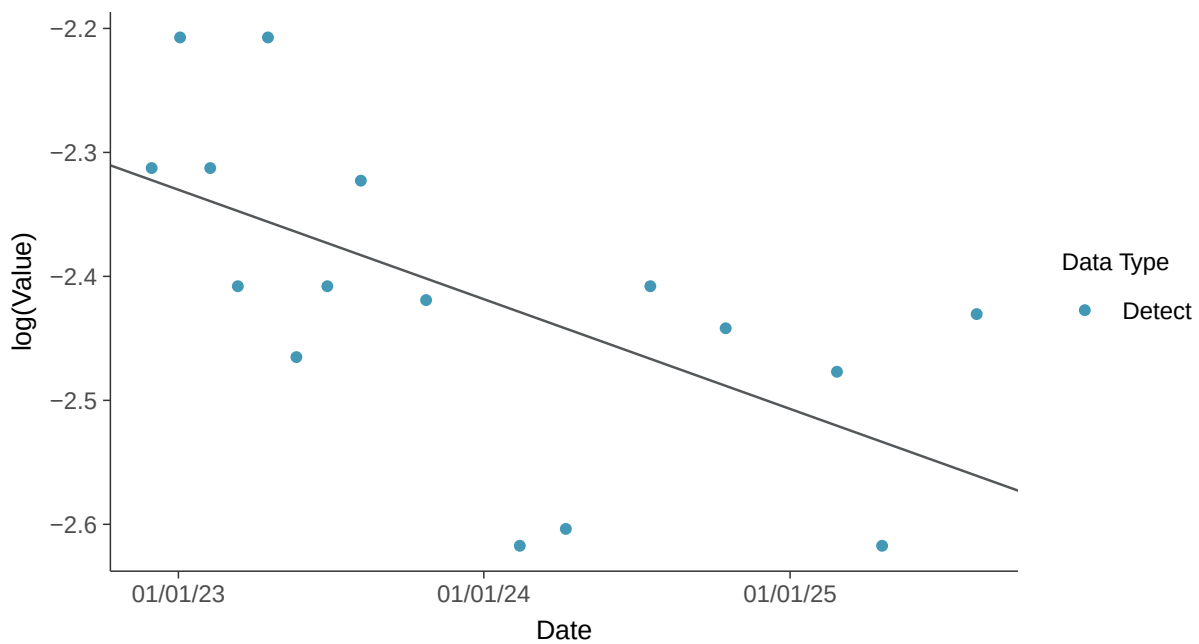
Gamma Q-Q plot

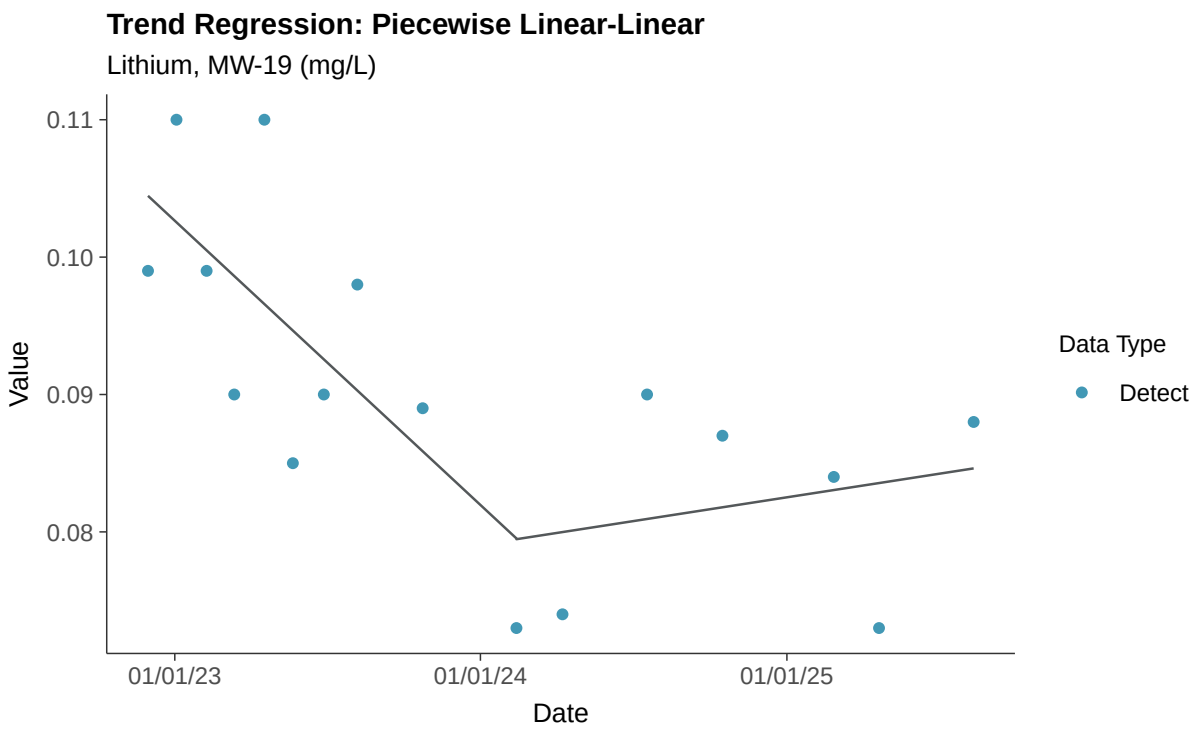
Lithium, MW-19 (mg/L)



Trend Regression: Lognormal MLE

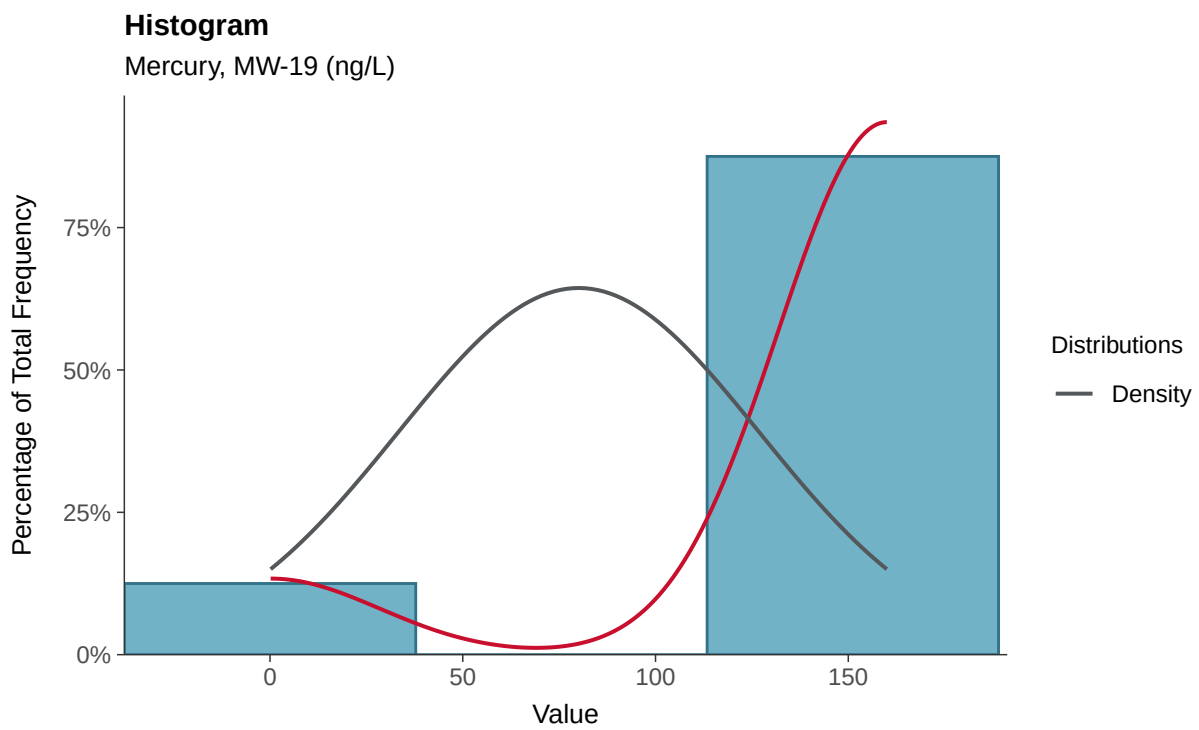
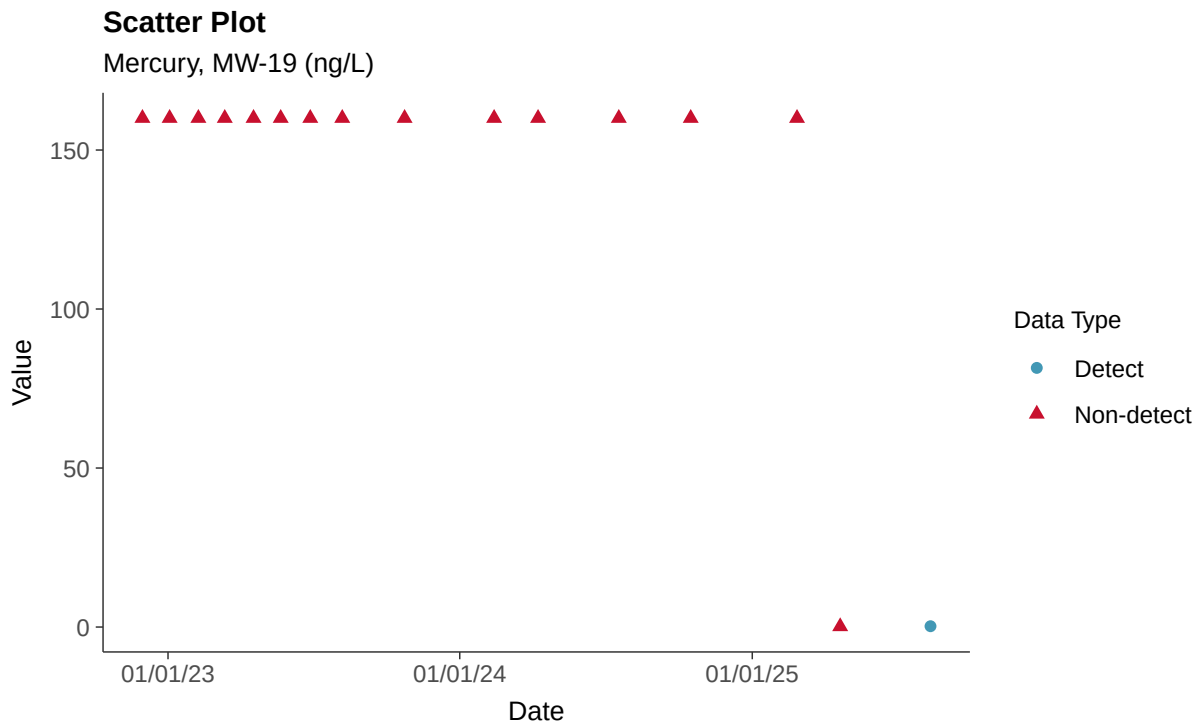
Lithium, MW-19 (mg/L)





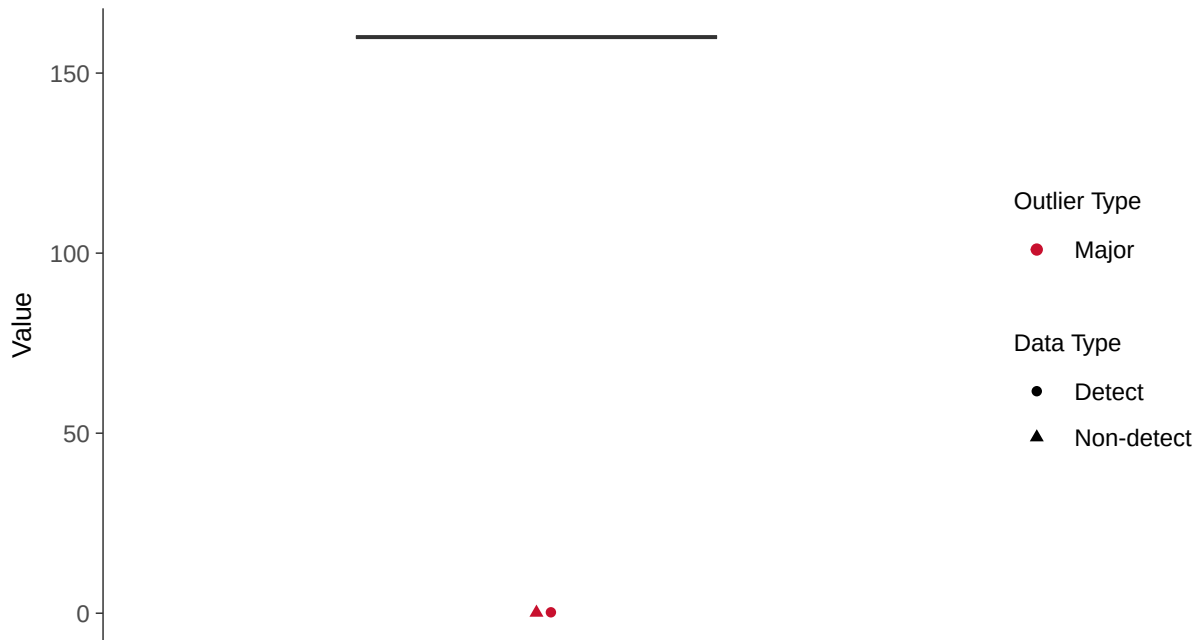
Appendix IV: Mercury, MW-19

ID: 29_1_4_117



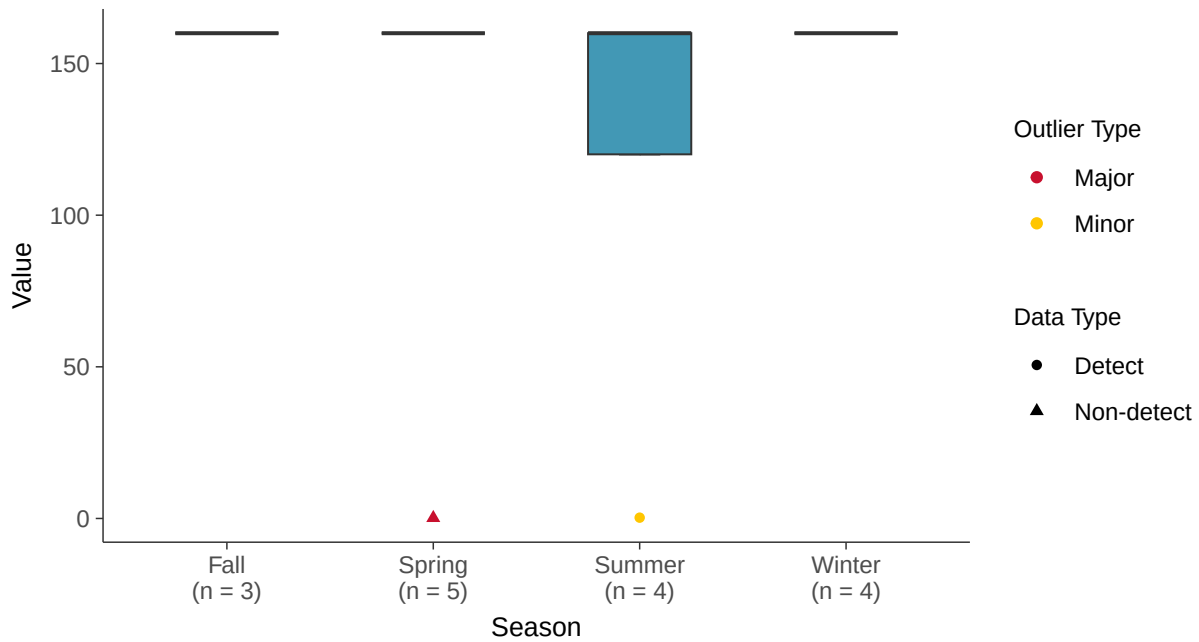
Boxplot

Mercury, MW-19 (ng/L)



Boxplot by Season

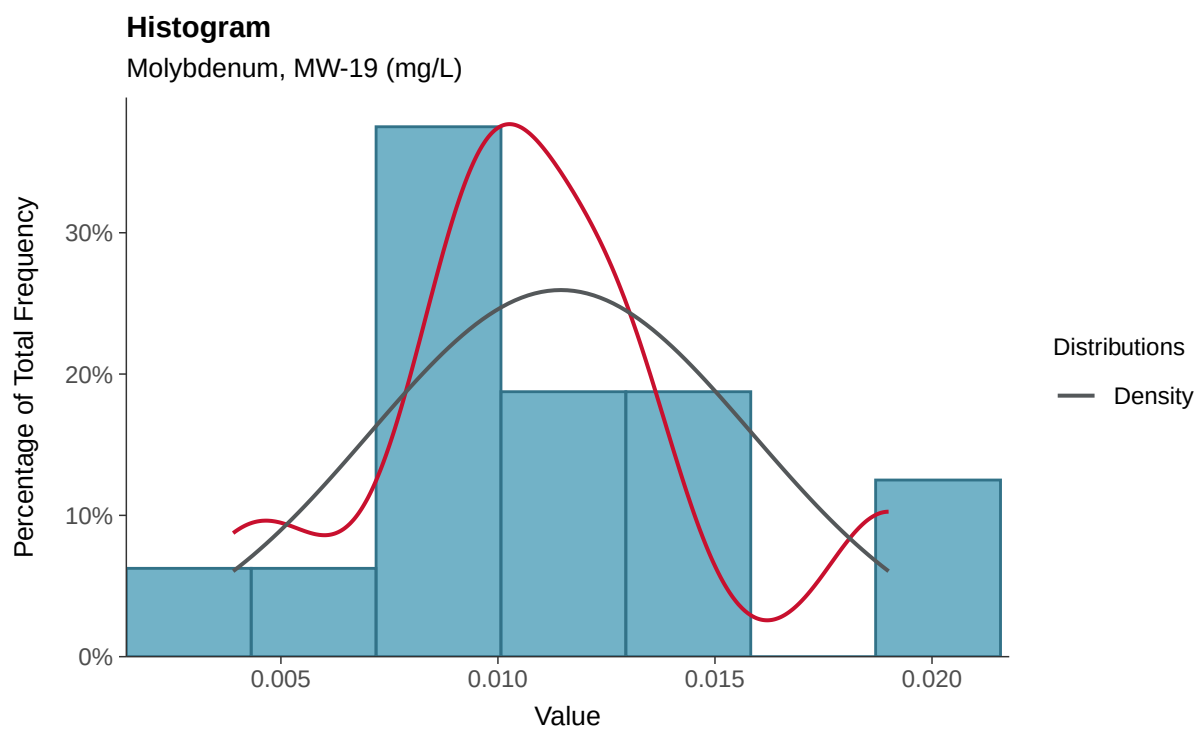
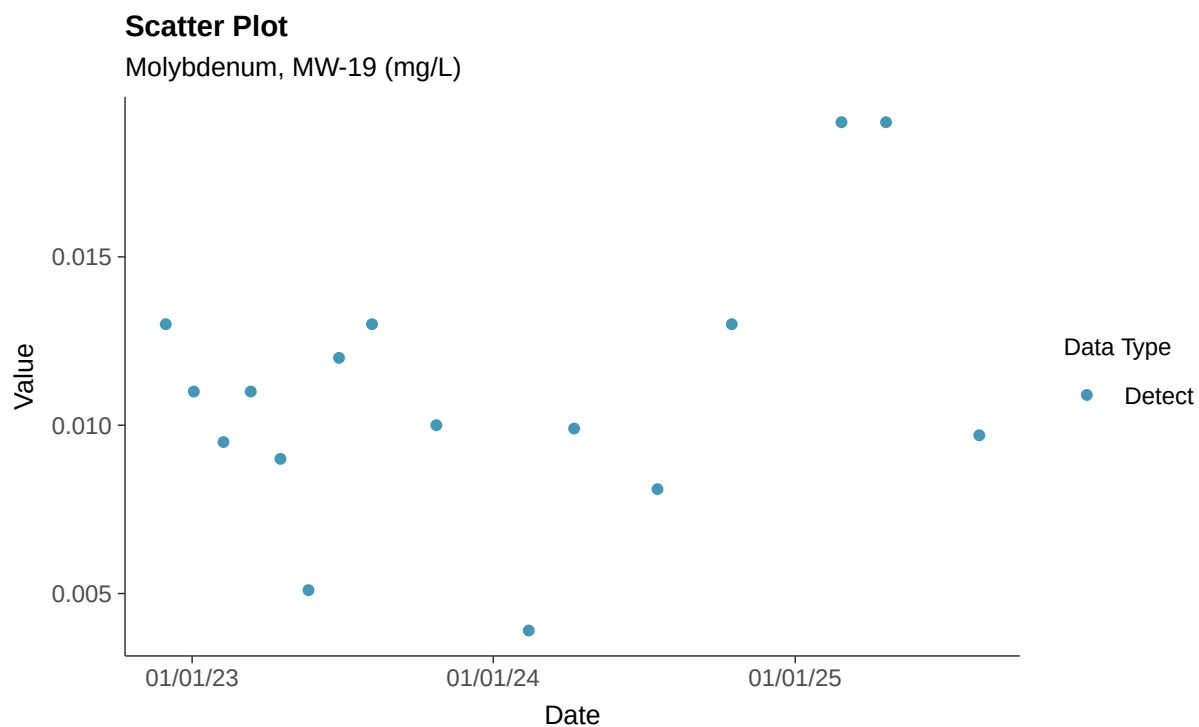
Mercury, MW-19 (ng/L)





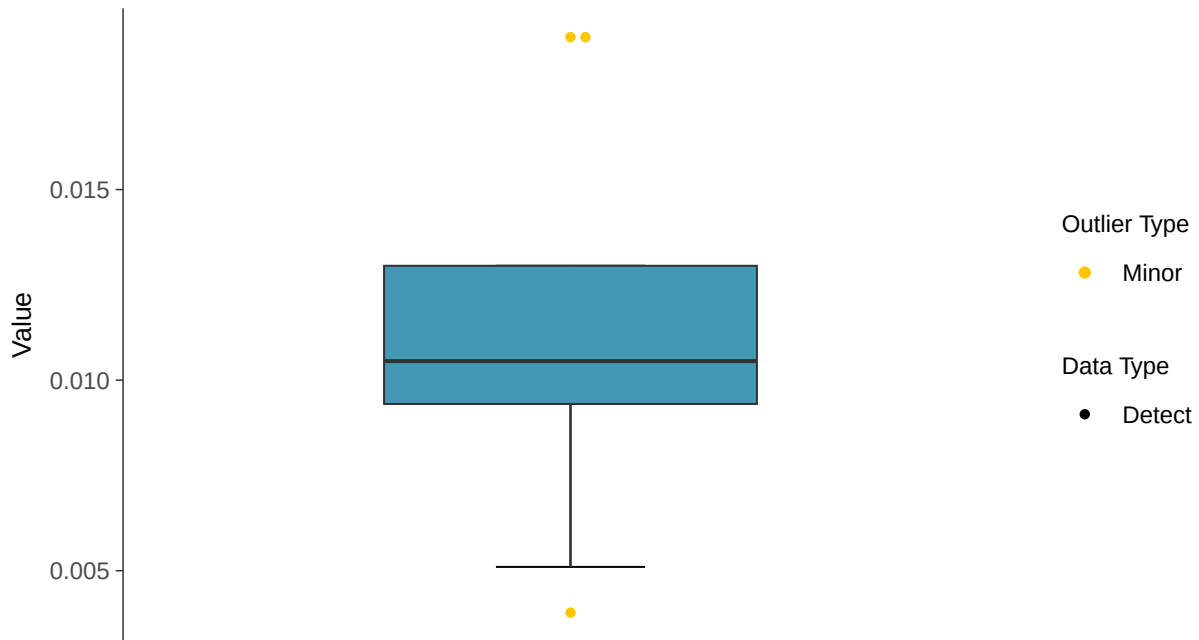
Appendix IV: Molybdenum, MW-19

ID: 29_1_4_118



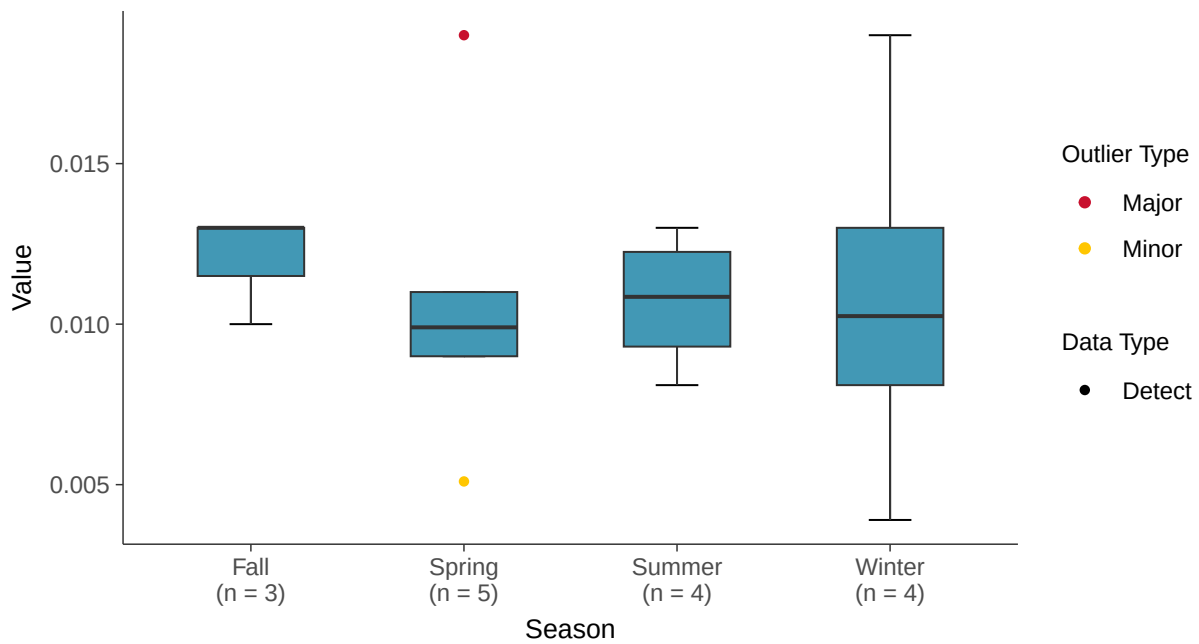
Boxplot

Molybdenum, MW-19 (mg/L)



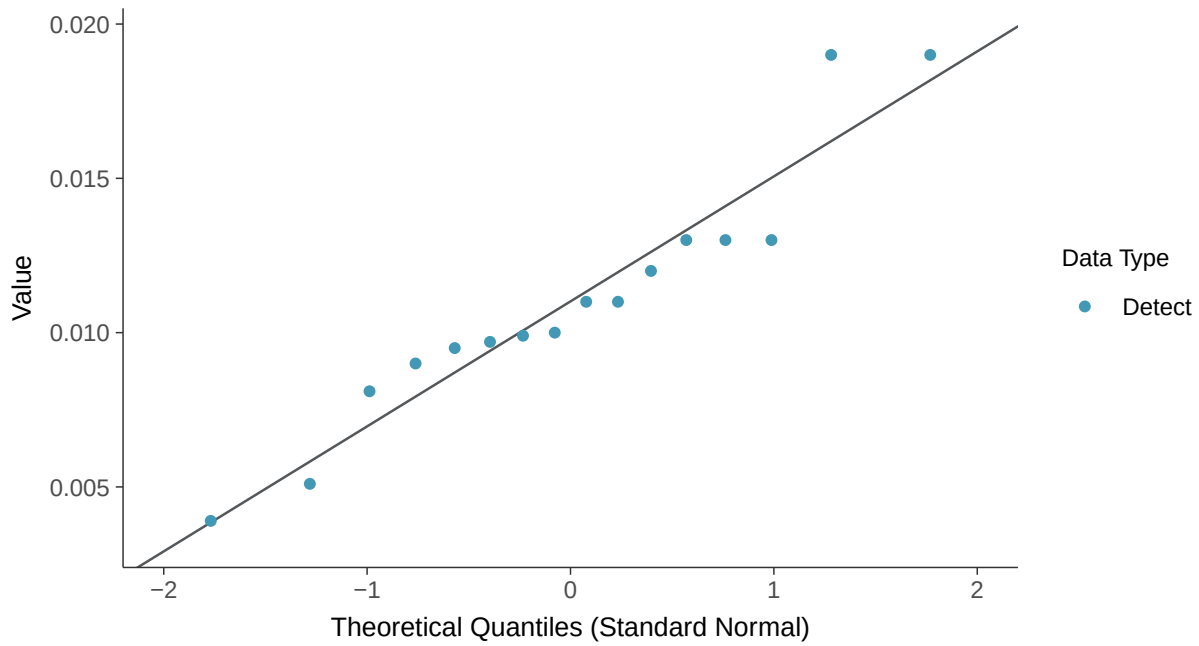
Boxplot by Season

Molybdenum, MW-19 (mg/L)



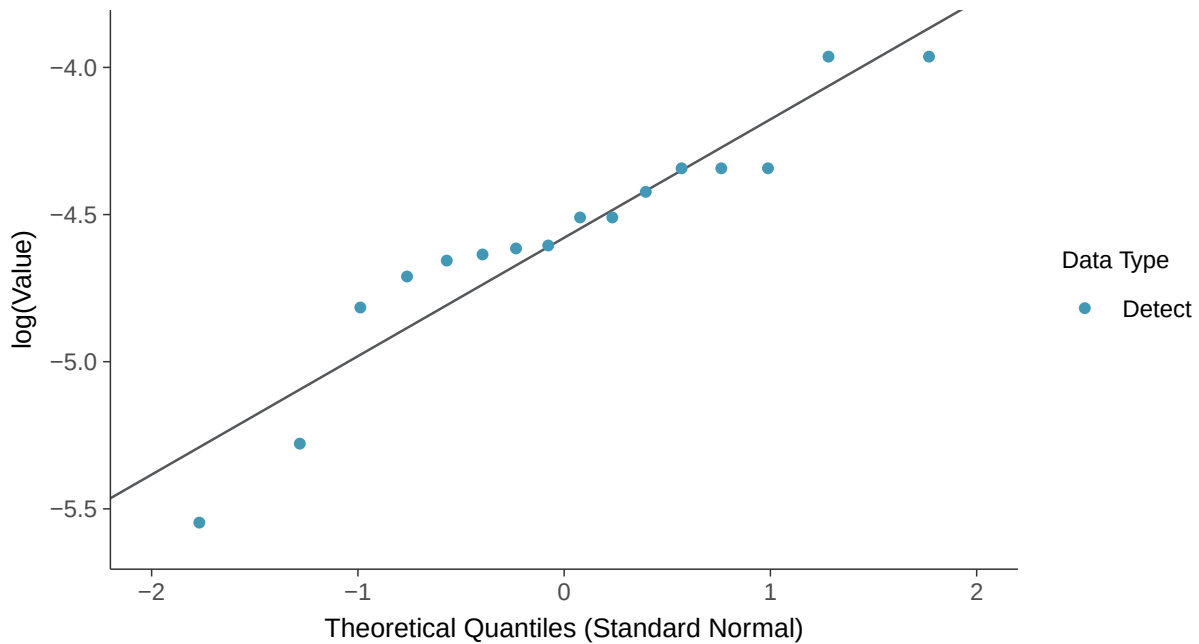
Normal Q-Q plot

Molybdenum, MW-19 (mg/L)



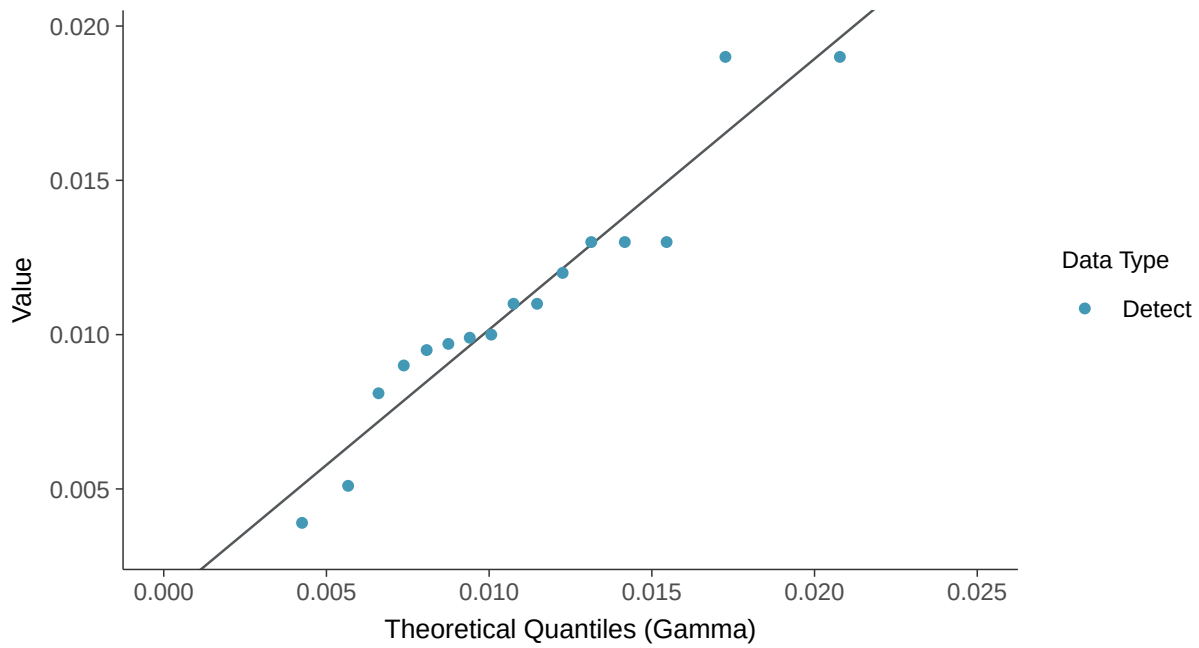
Lognormal Q-Q plot

Molybdenum, MW-19 (mg/L)



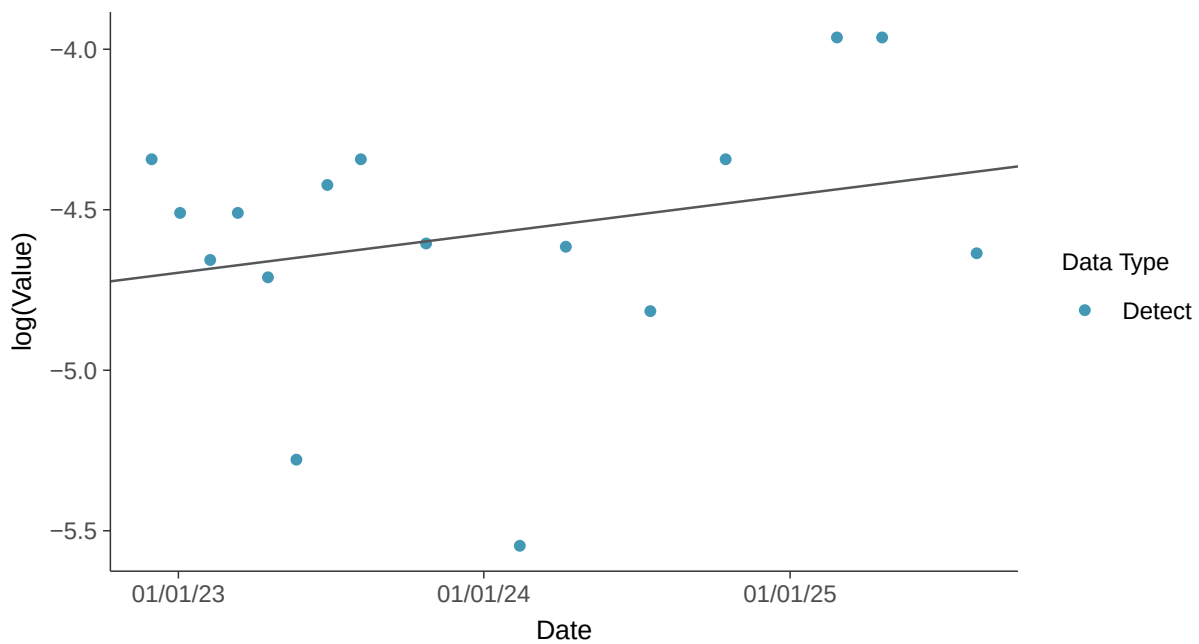
Gamma Q-Q plot

Molybdenum, MW-19 (mg/L)



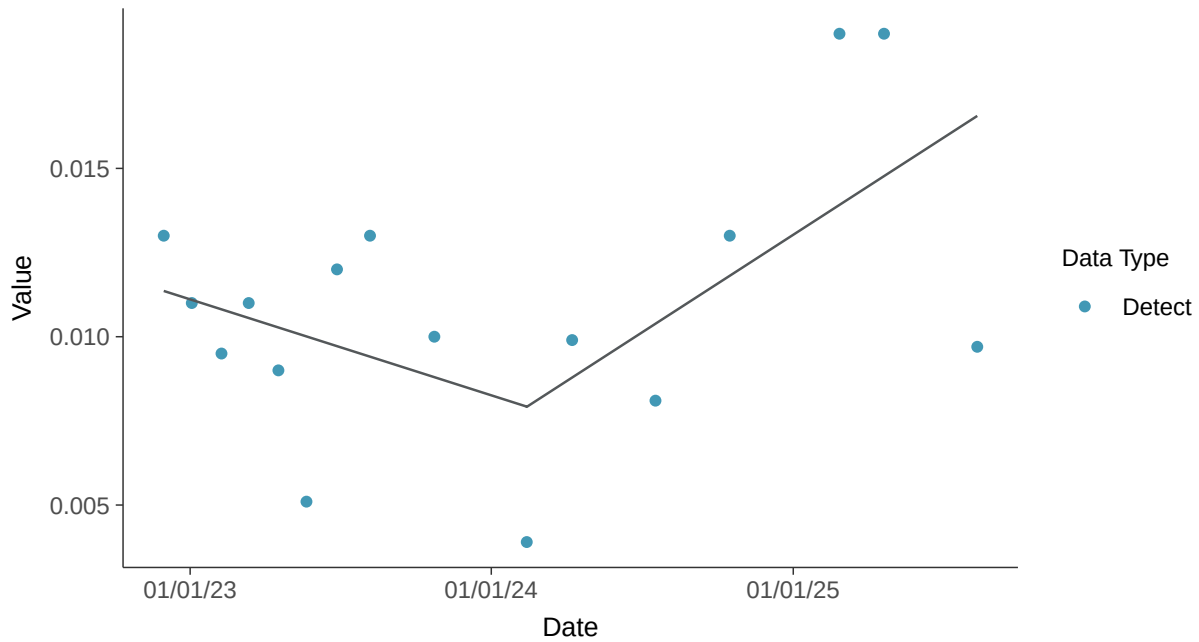
Trend Regression: Lognormal MLE

Molybdenum, MW-19 (mg/L)



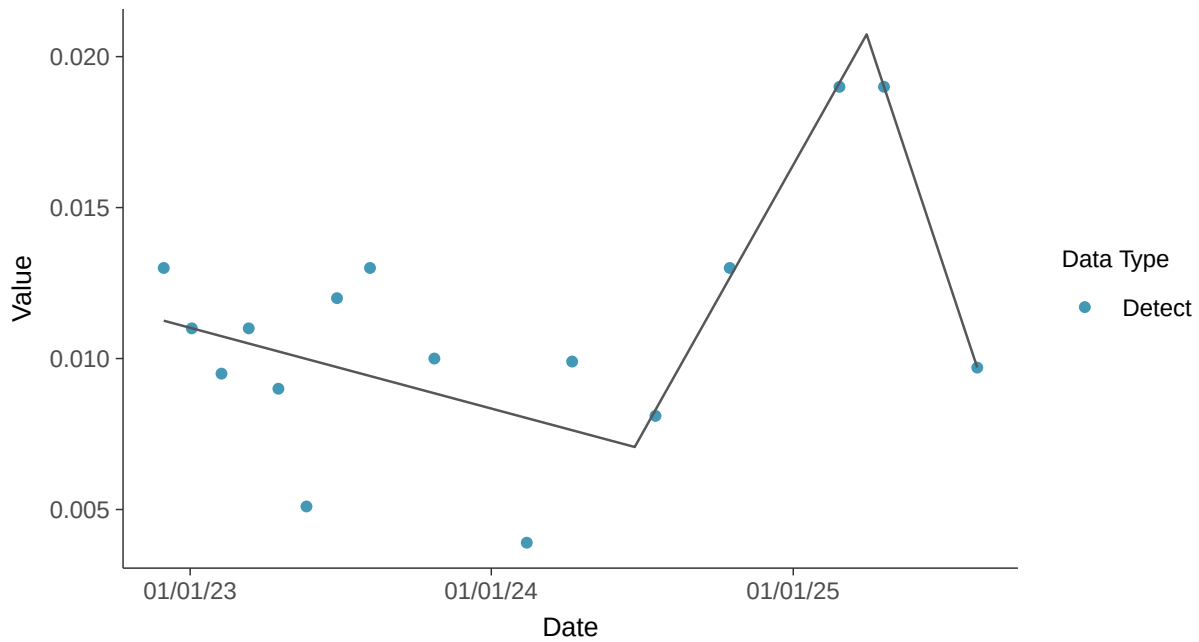
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-19 (mg/L)

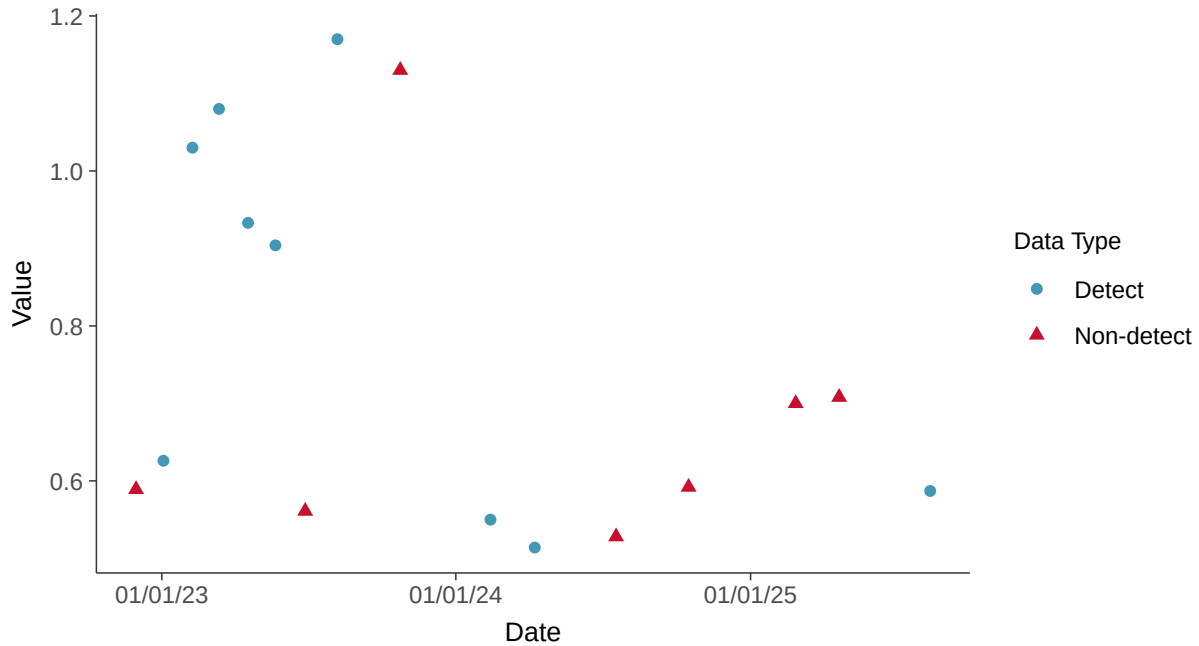


Appendix IV: Radium 226 and 228, MW-19

ID: 29_1_4_121

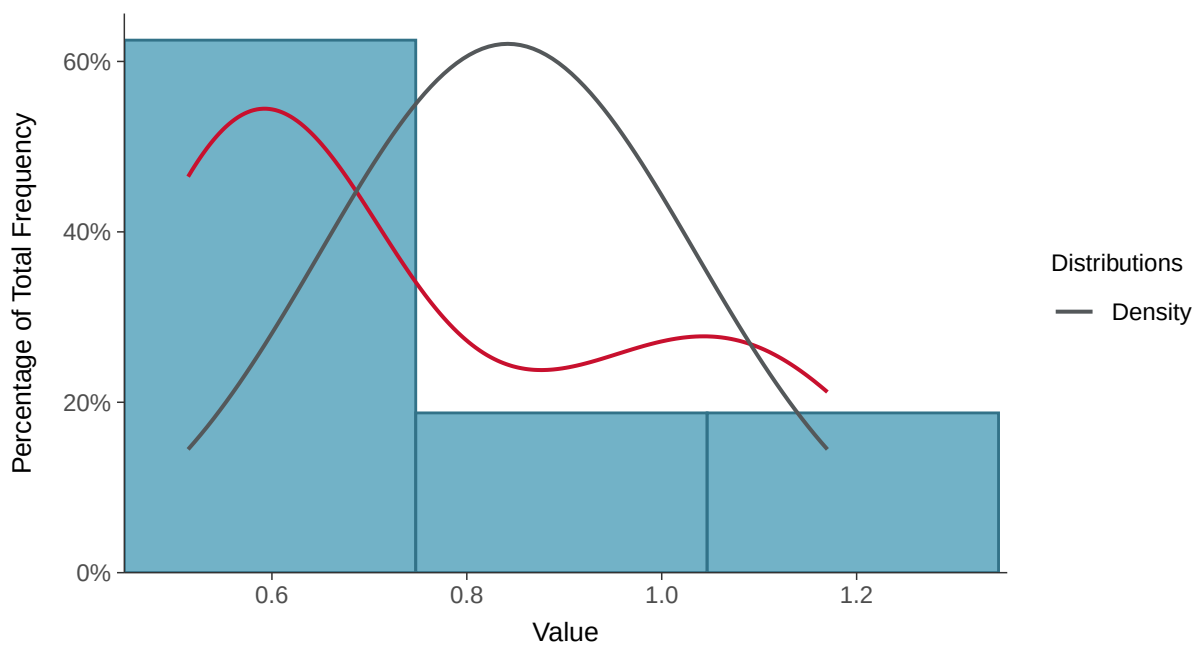
Scatter Plot

Radium 226 and 228, MW-19 (pCi/L)



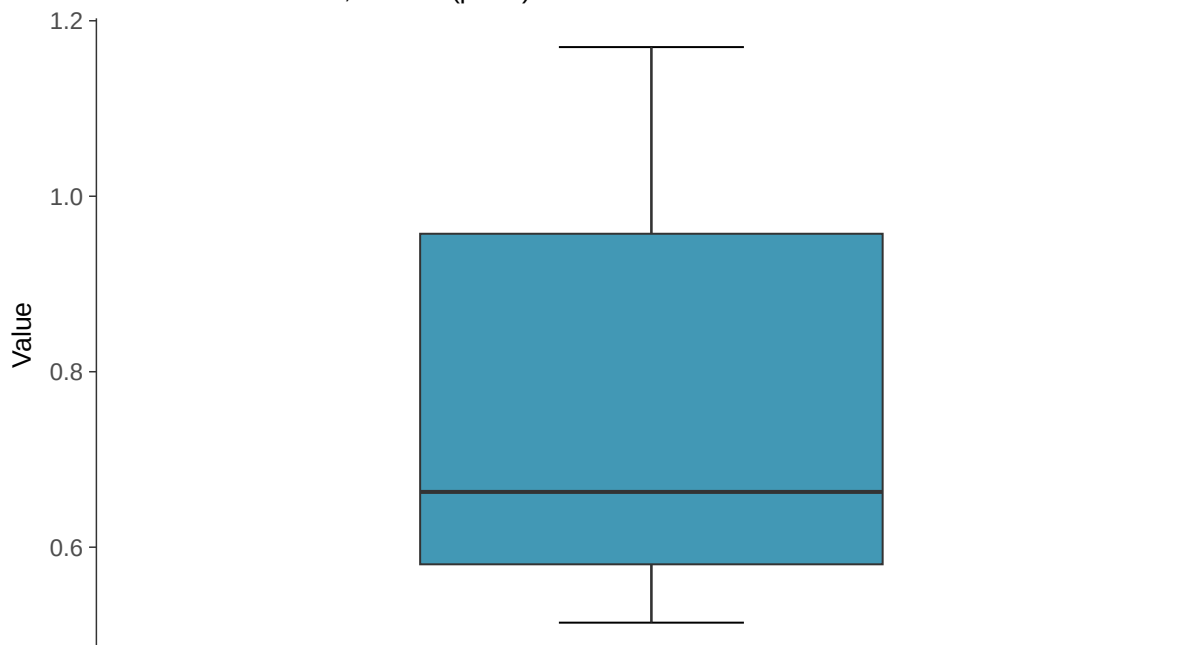
Histogram

Radium 226 and 228, MW-19 (pCi/L)



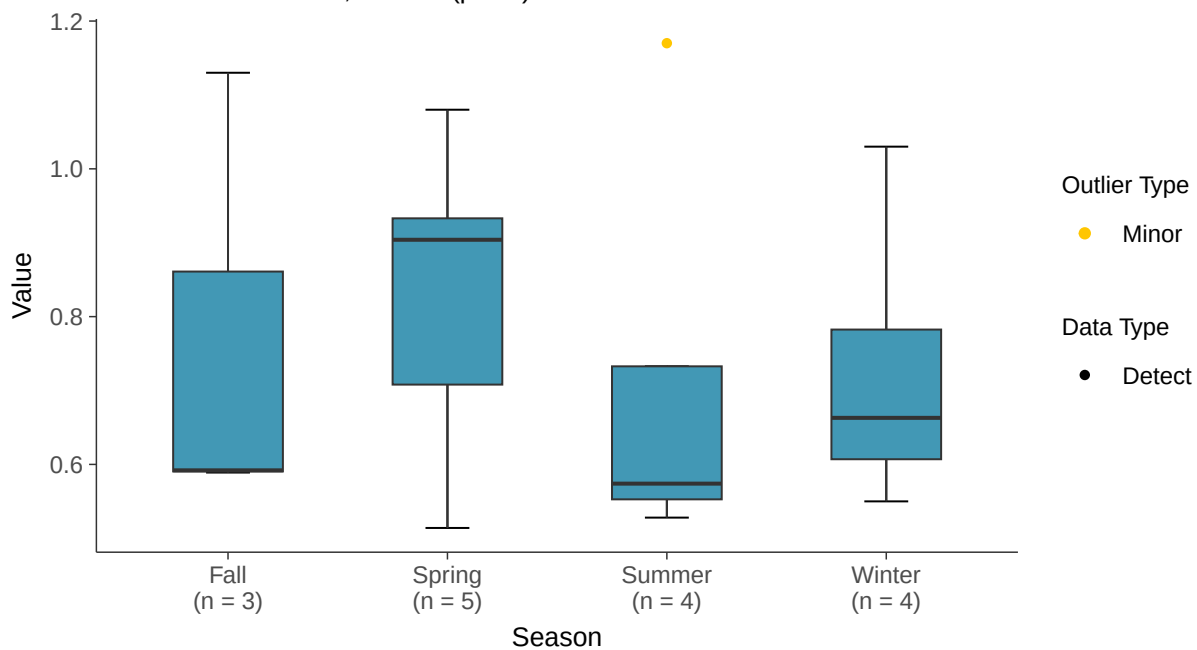
Boxplot

Radium 226 and 228, MW-19 (pCi/L)



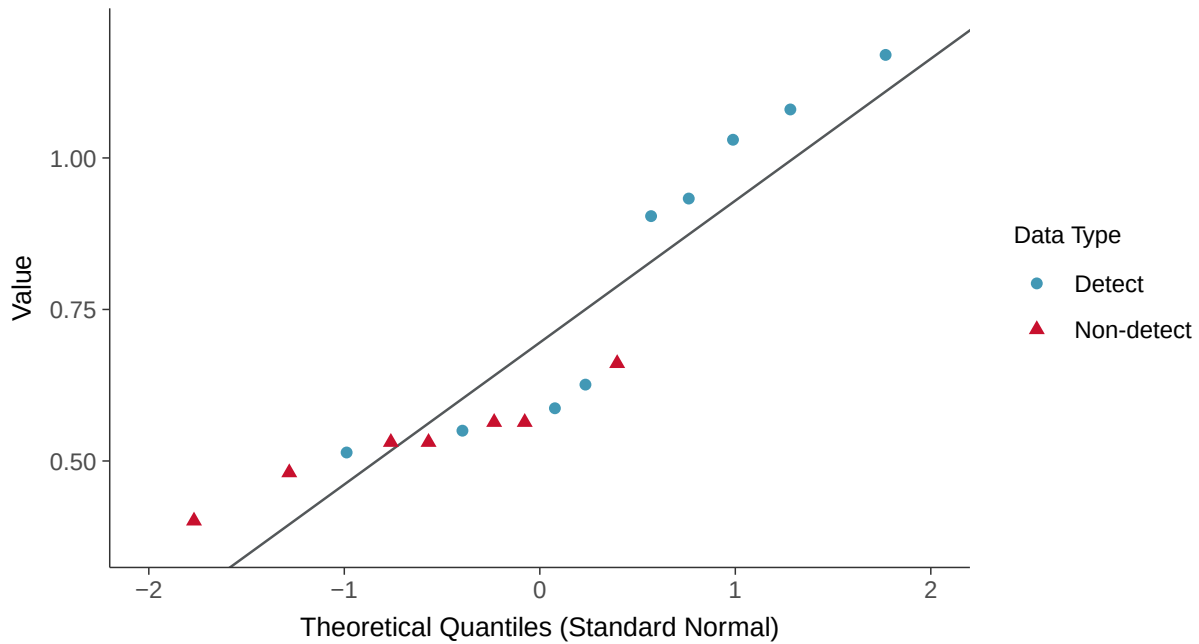
Boxplot by Season

Radium 226 and 228, MW-19 (pCi/L)



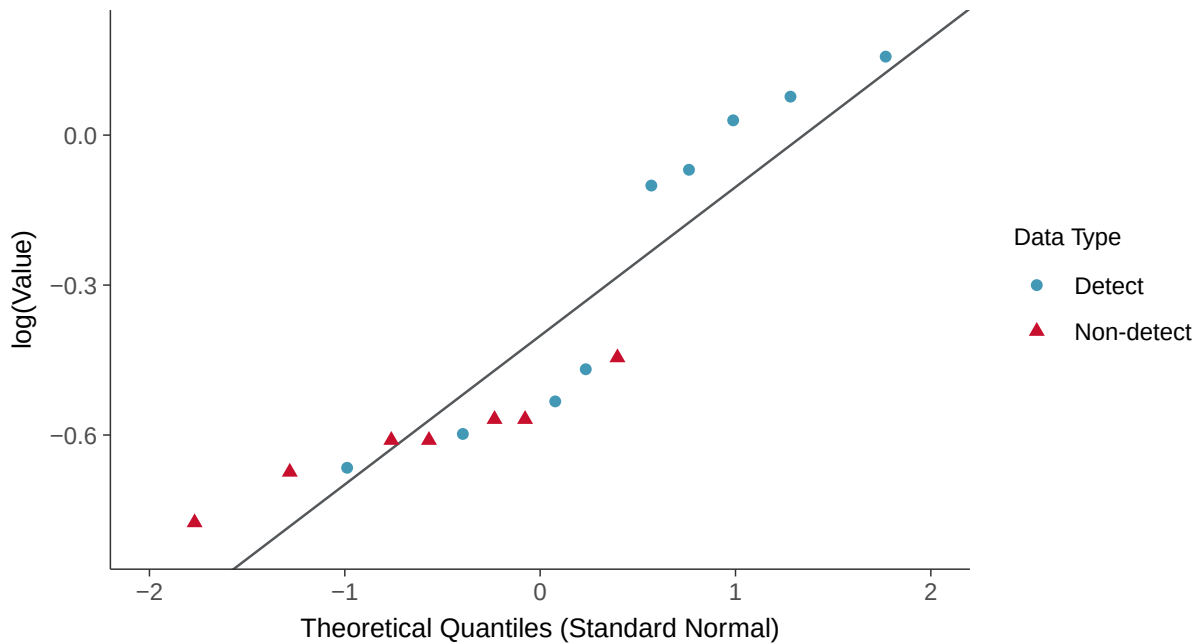
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-19 (pCi/L)



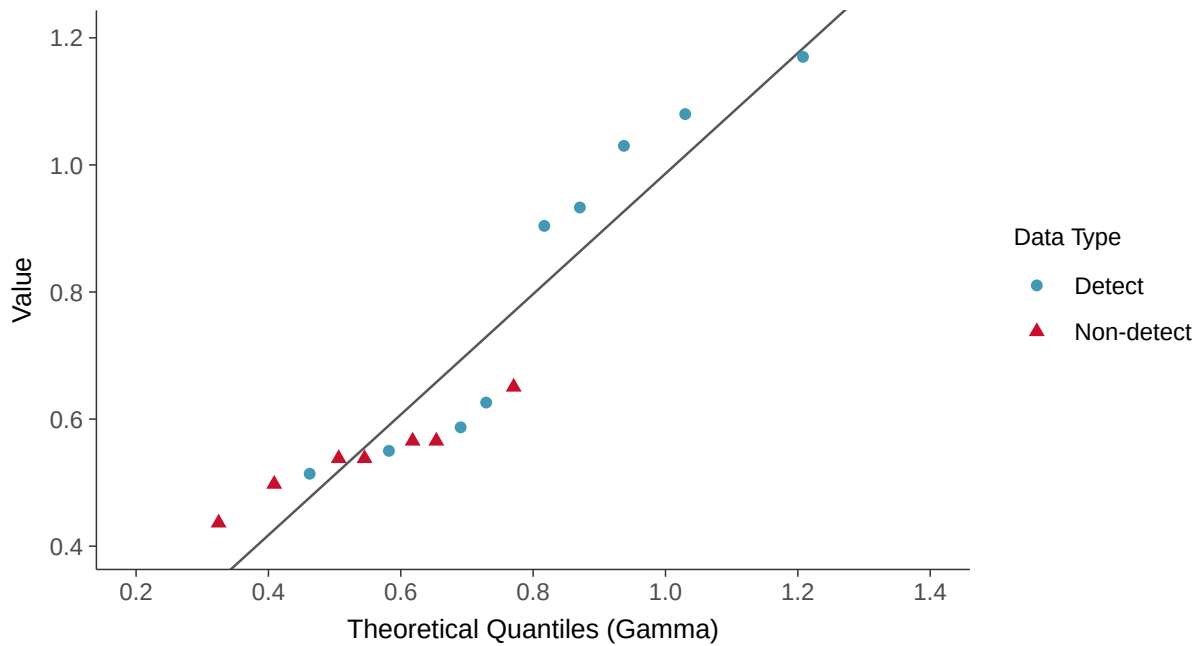
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-19 (pCi/L)



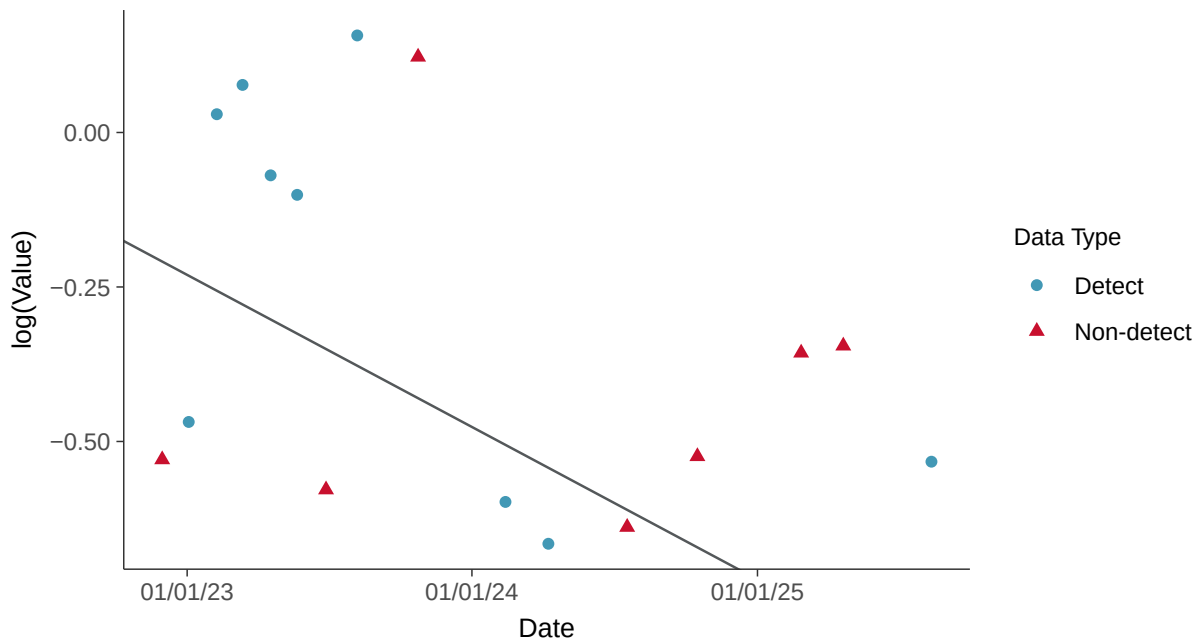
Gamma Q-Q plot using ROS Imputed Estimates

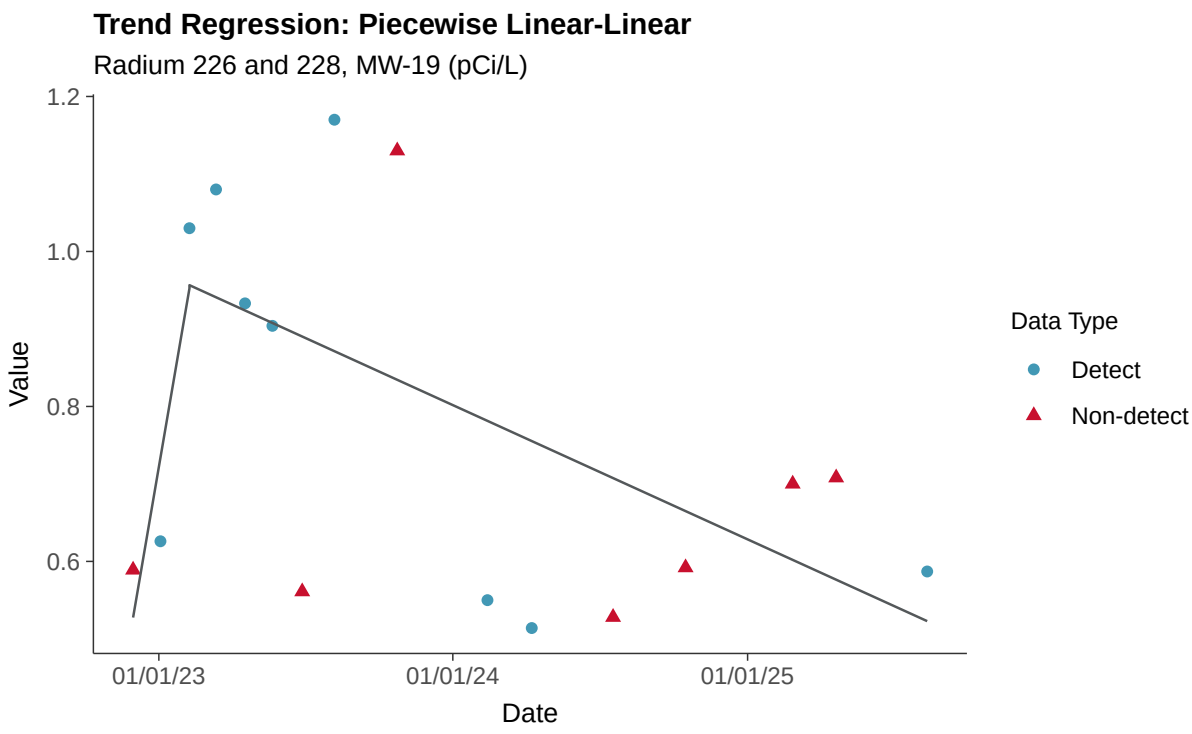
Radium 226 and 228, MW-19 (pCi/L)

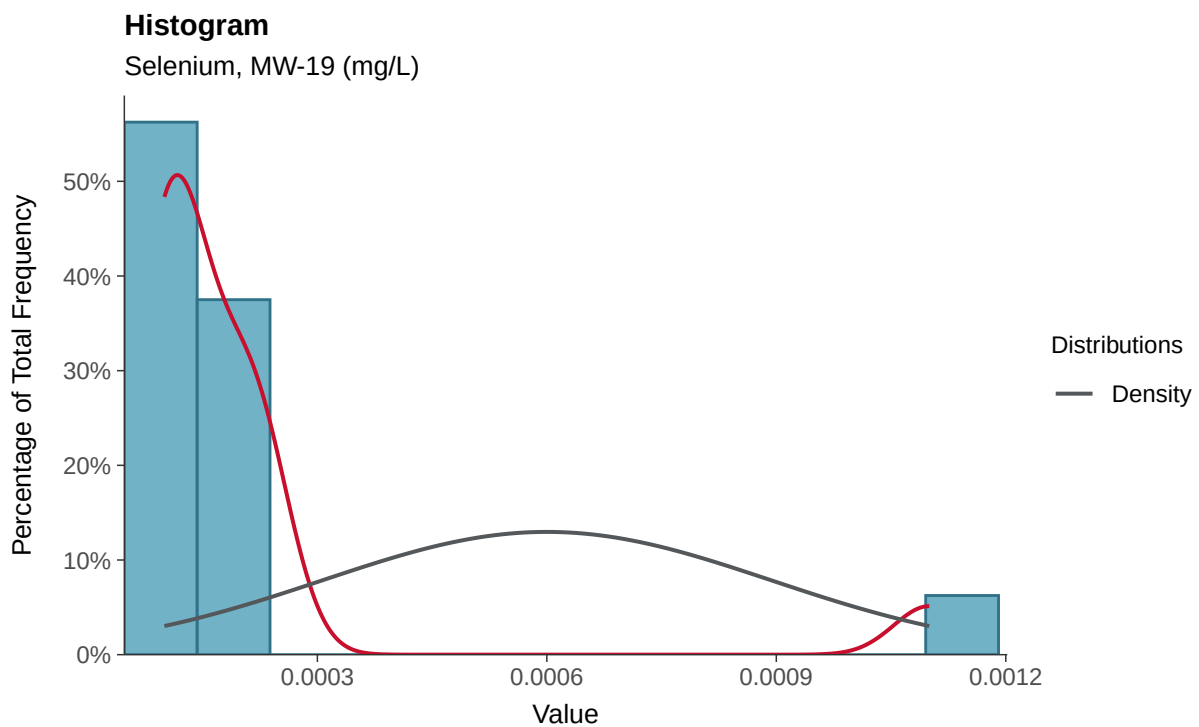


Trend Regression: Lognormal MLE

Radium 226 and 228, MW-19 (pCi/L)

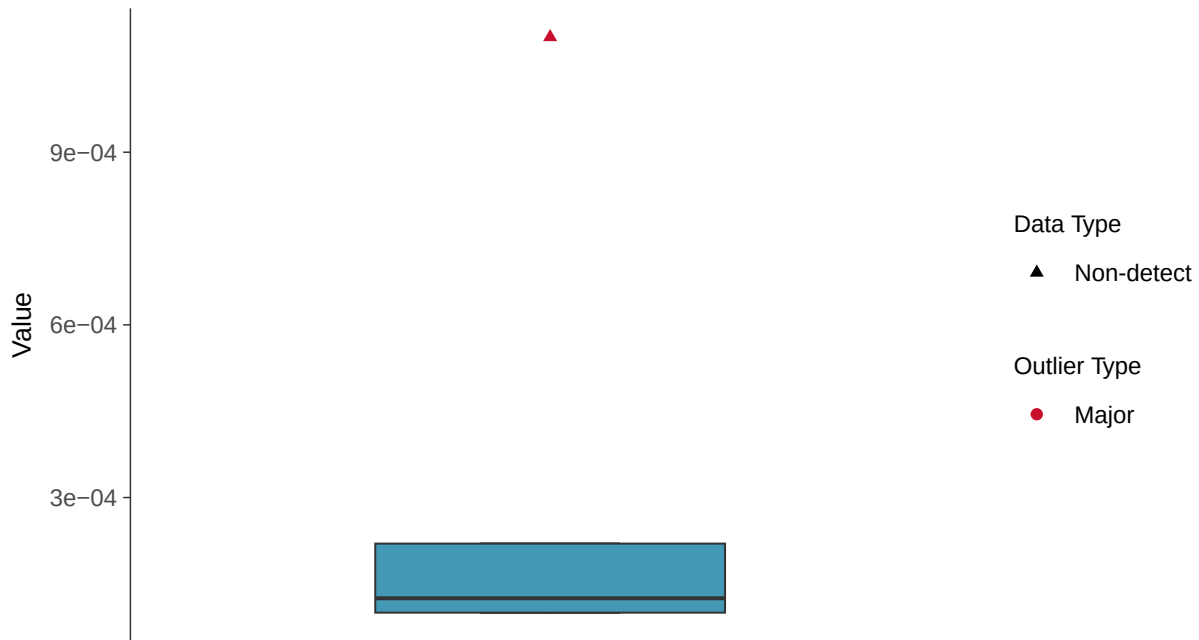






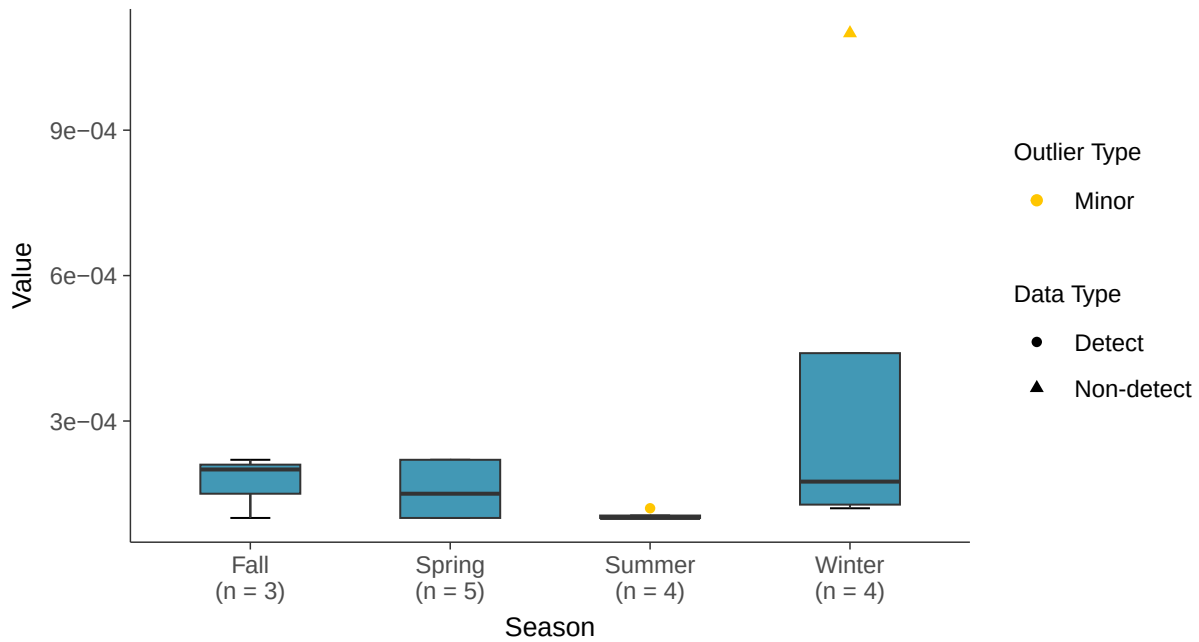
Boxplot

Selenium, MW-19 (mg/L)



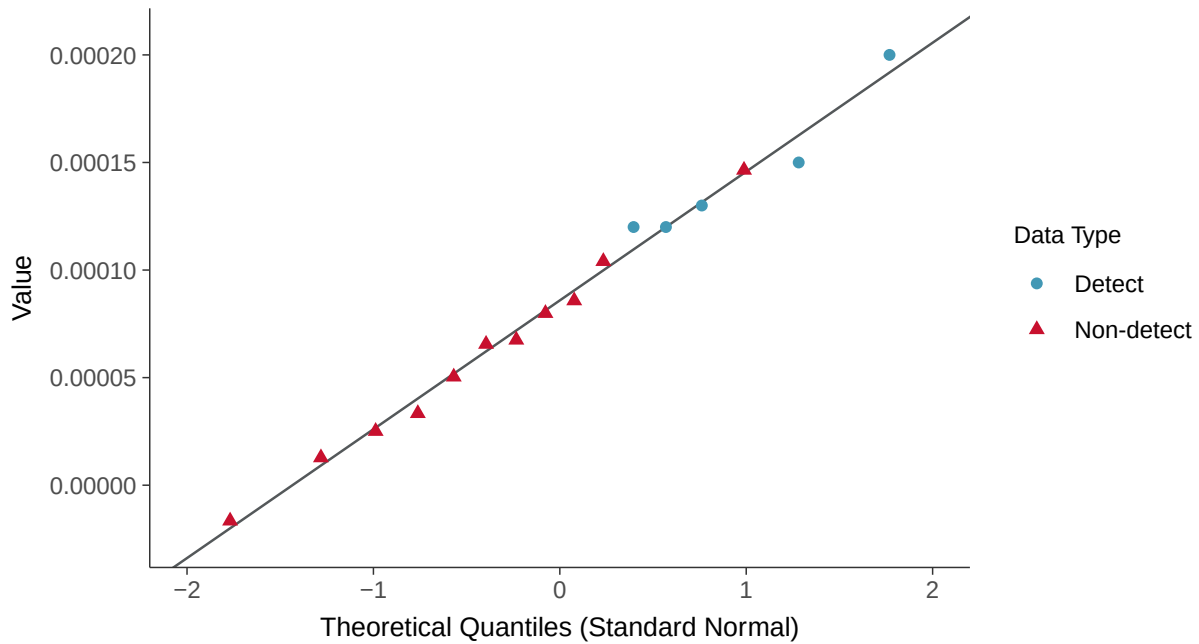
Boxplot by Season

Selenium, MW-19 (mg/L)



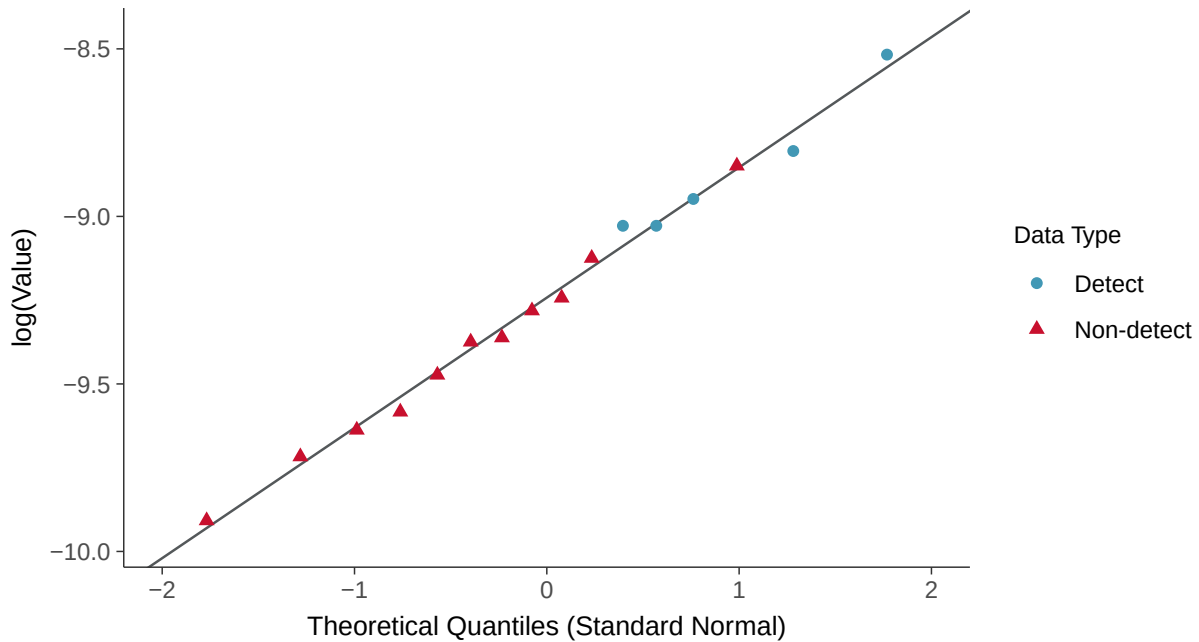
Normal Q-Q plot using ROS Imputed Estimates

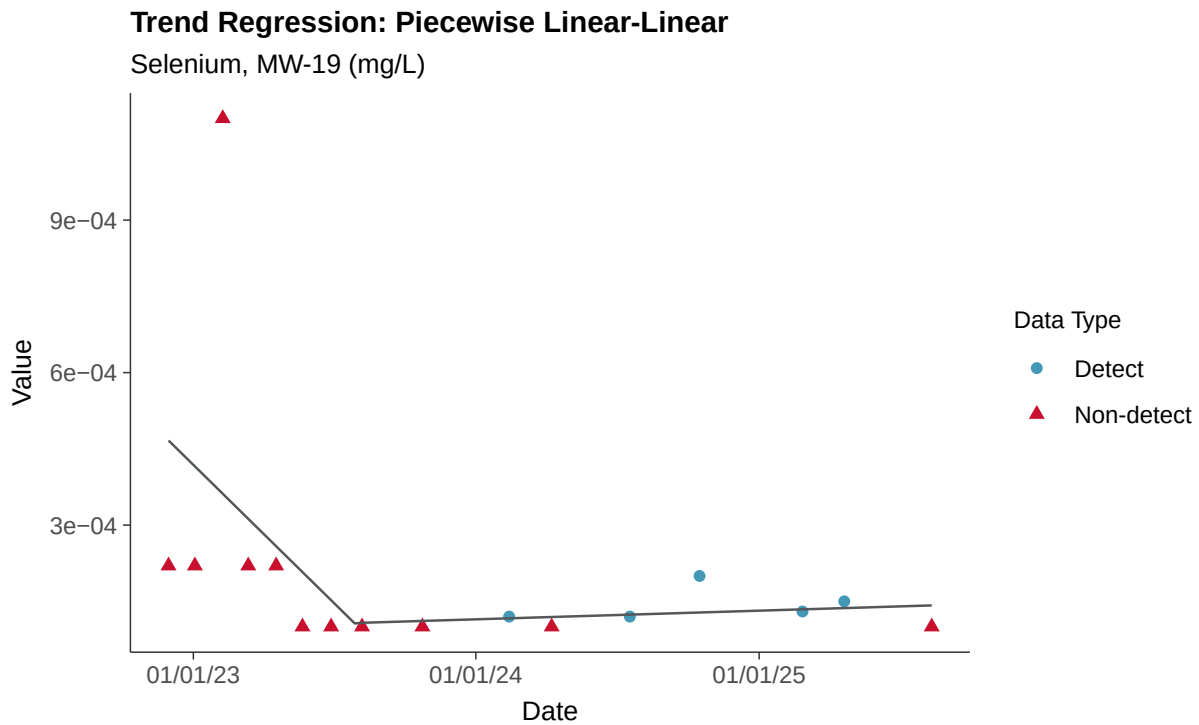
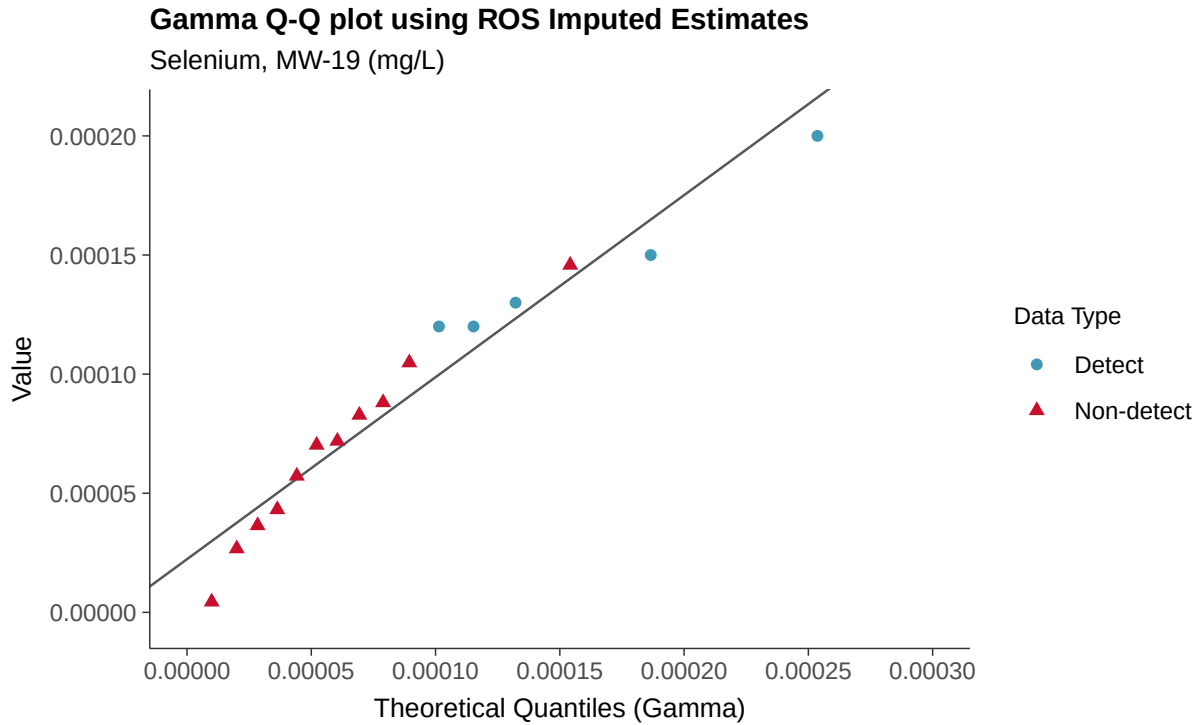
Selenium, MW-19 (mg/L)



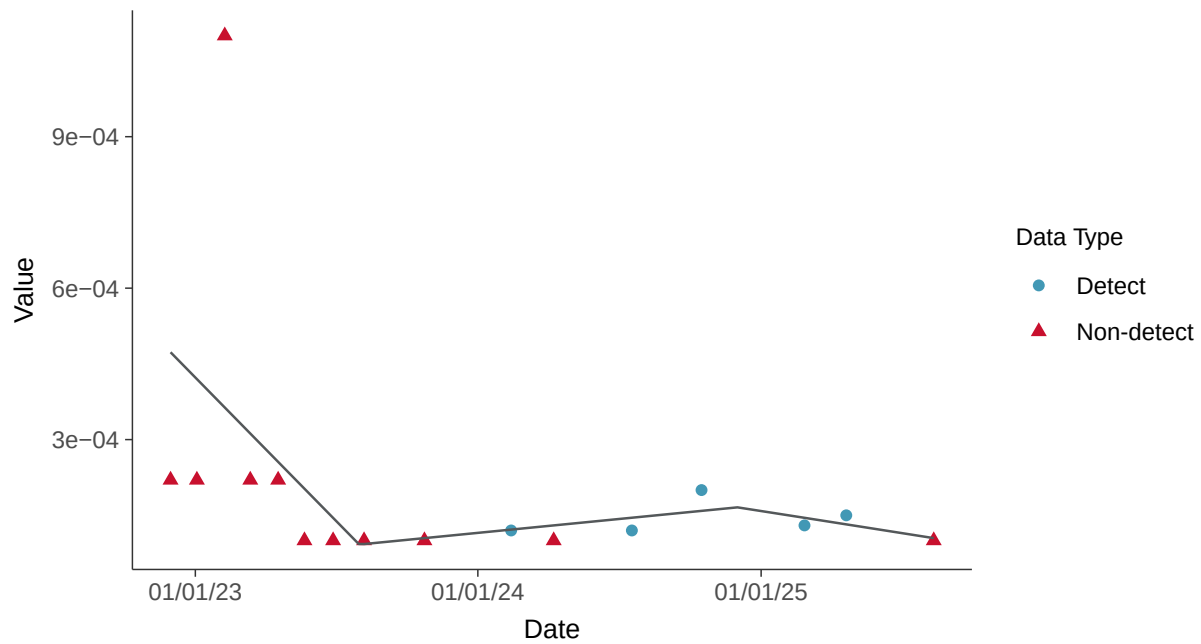
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-19 (mg/L)



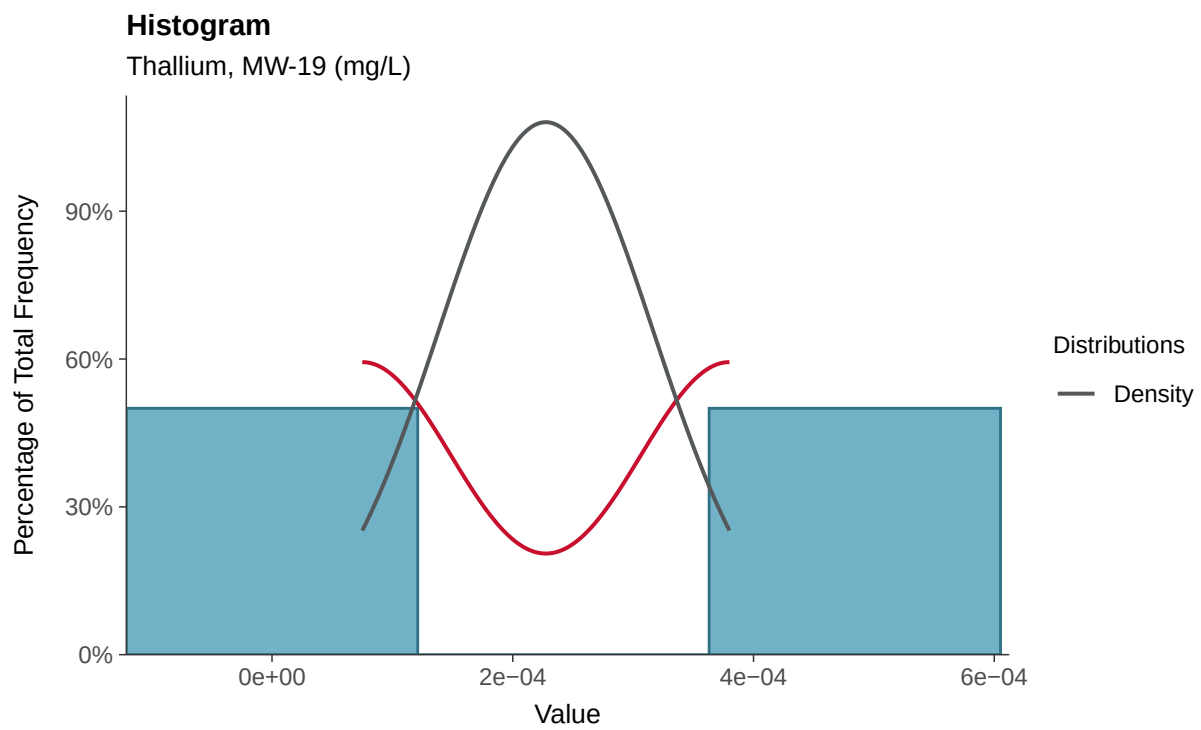
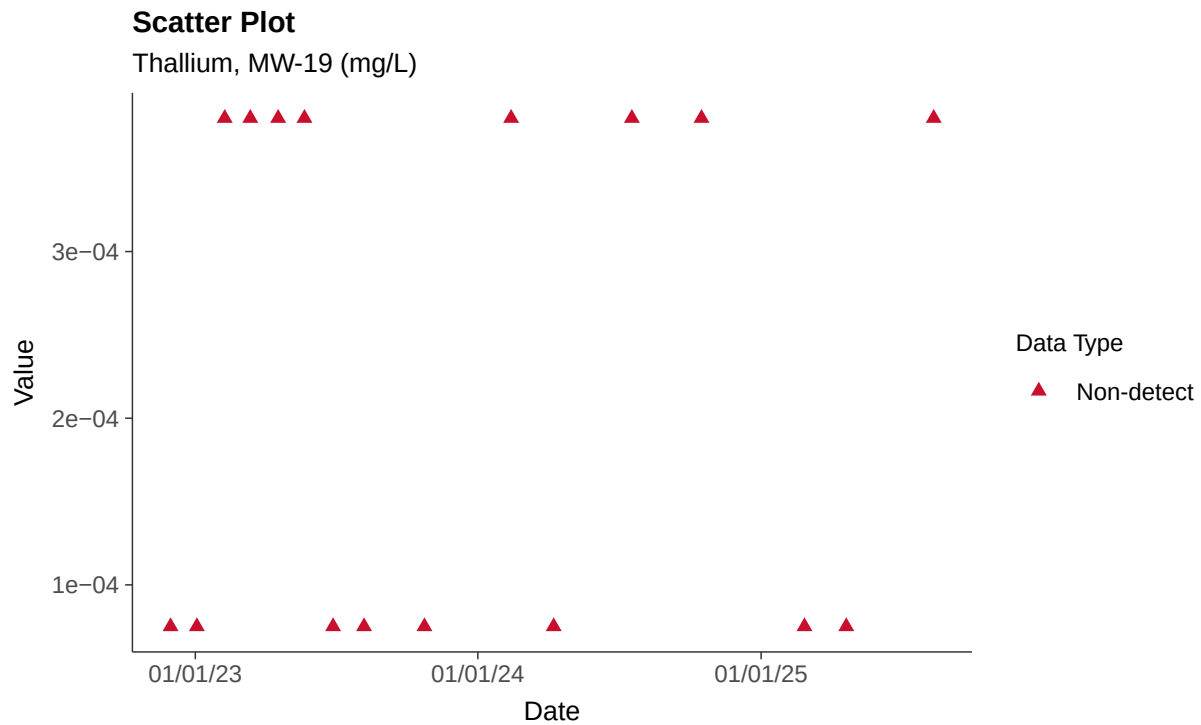


Selenium, MW-19 (mg/L)



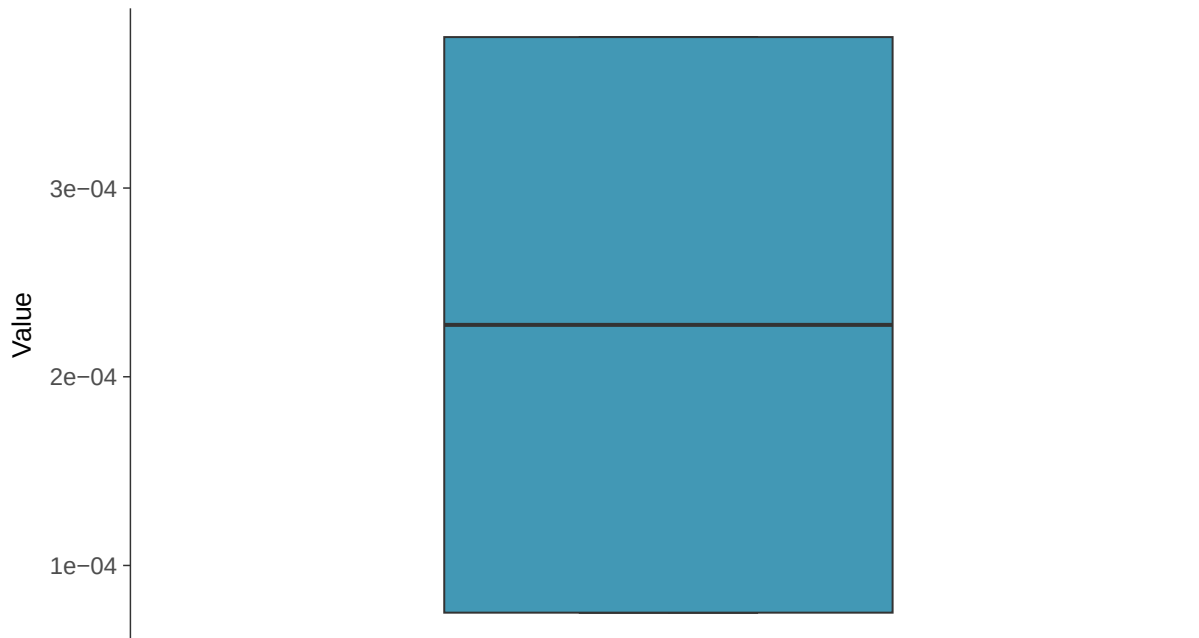
Appendix IV: Thallium, MW-19

ID: 29_1_4_125



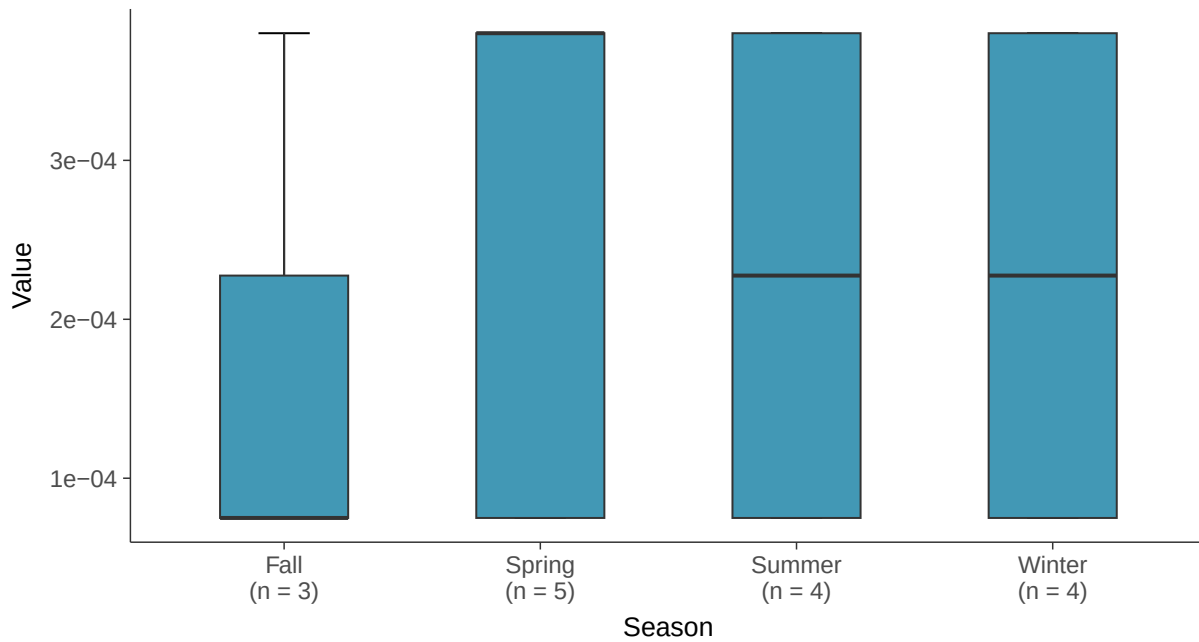
Boxplot

Thallium, MW-19 (mg/L)



Boxplot by Season

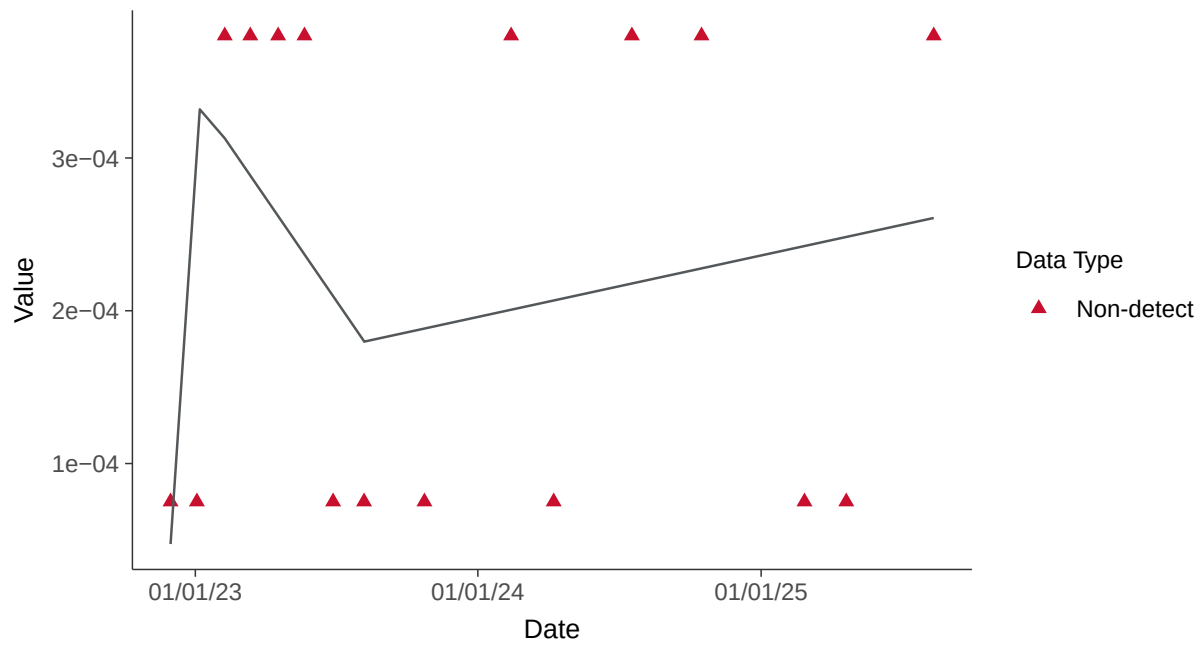
Thallium, MW-19 (mg/L)

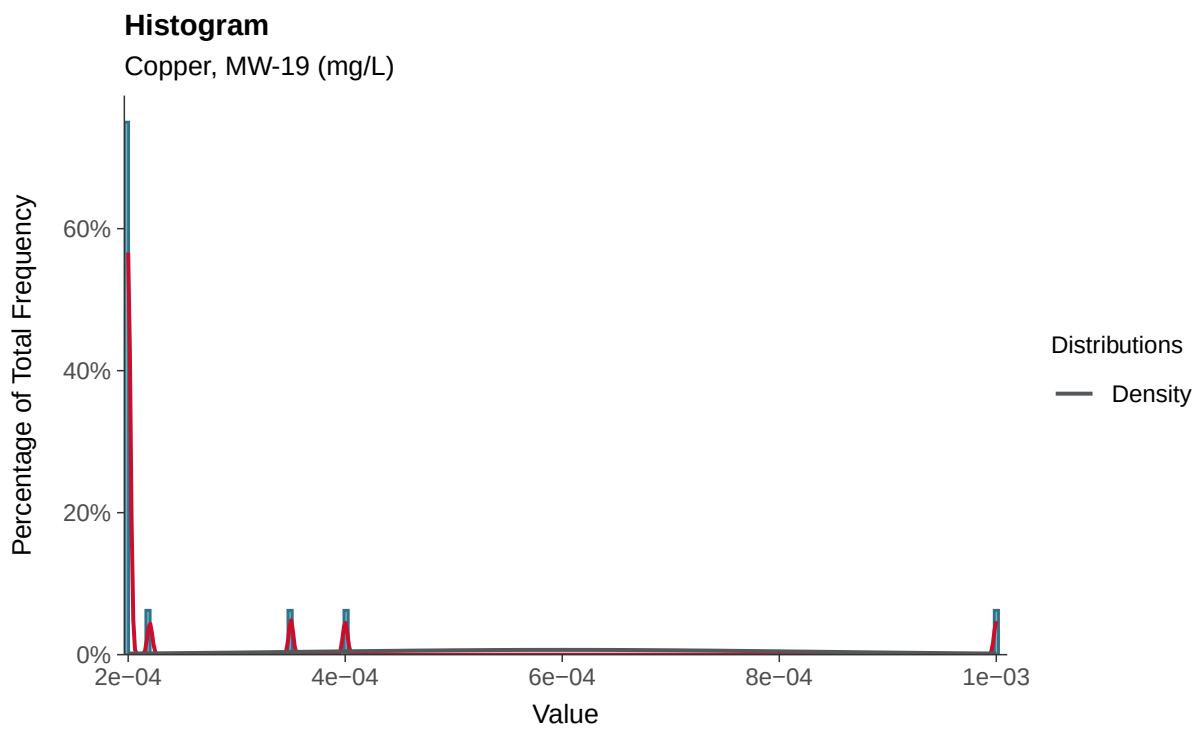




Trend Regression: Piecewise Linear-Linear-Linear

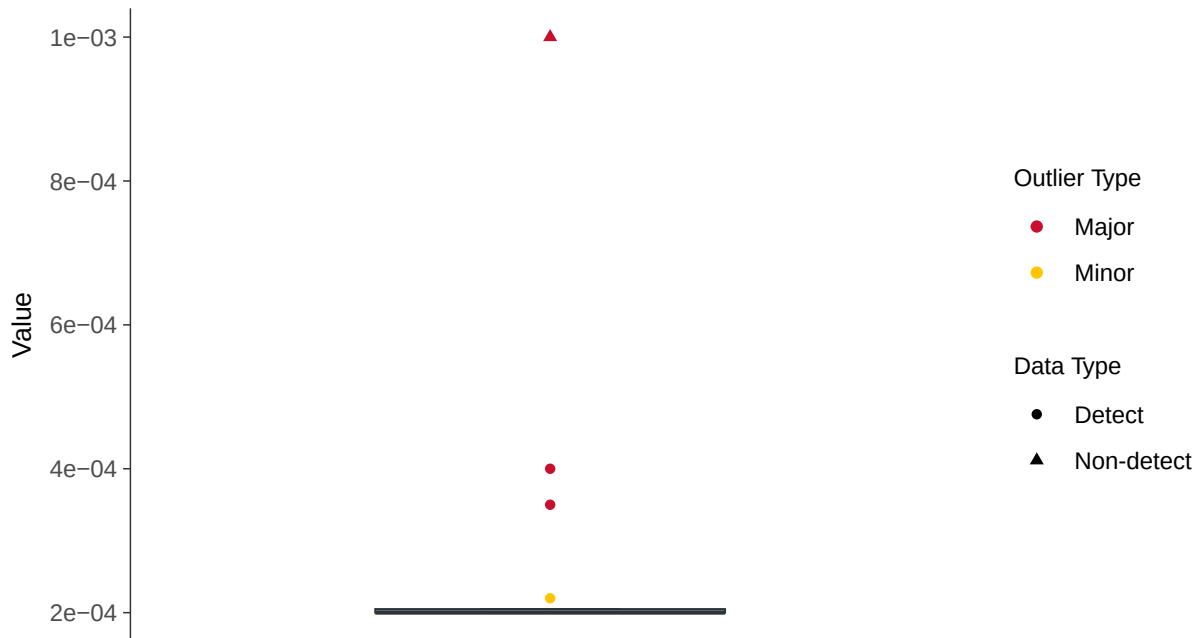
Thallium, MW-19 (mg/L)





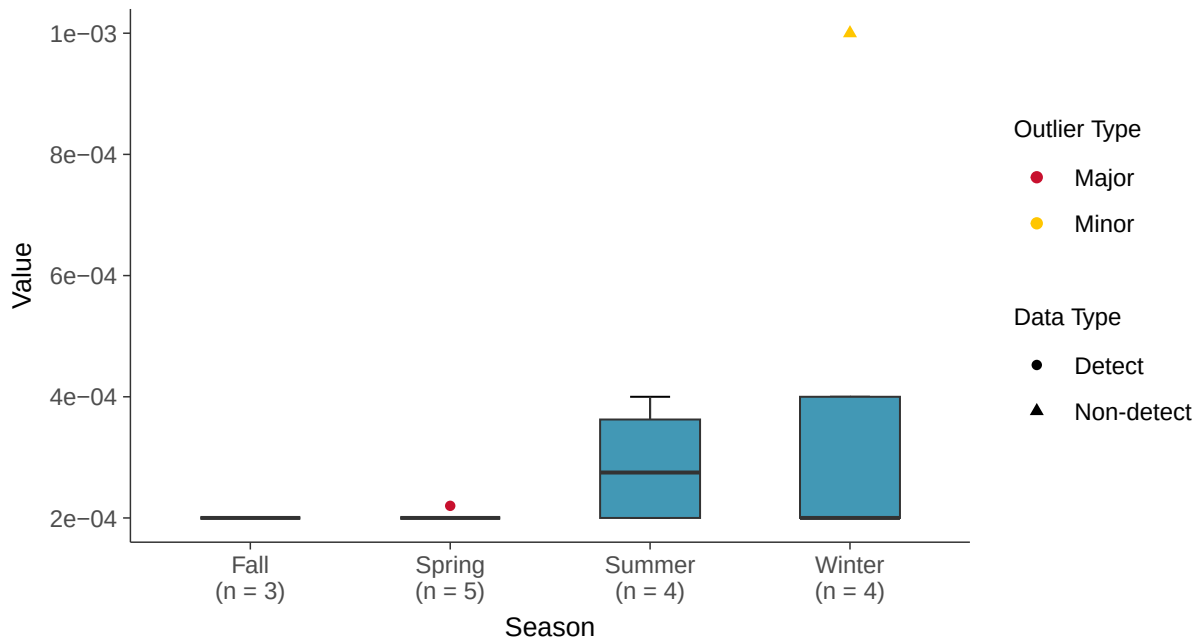
Boxplot

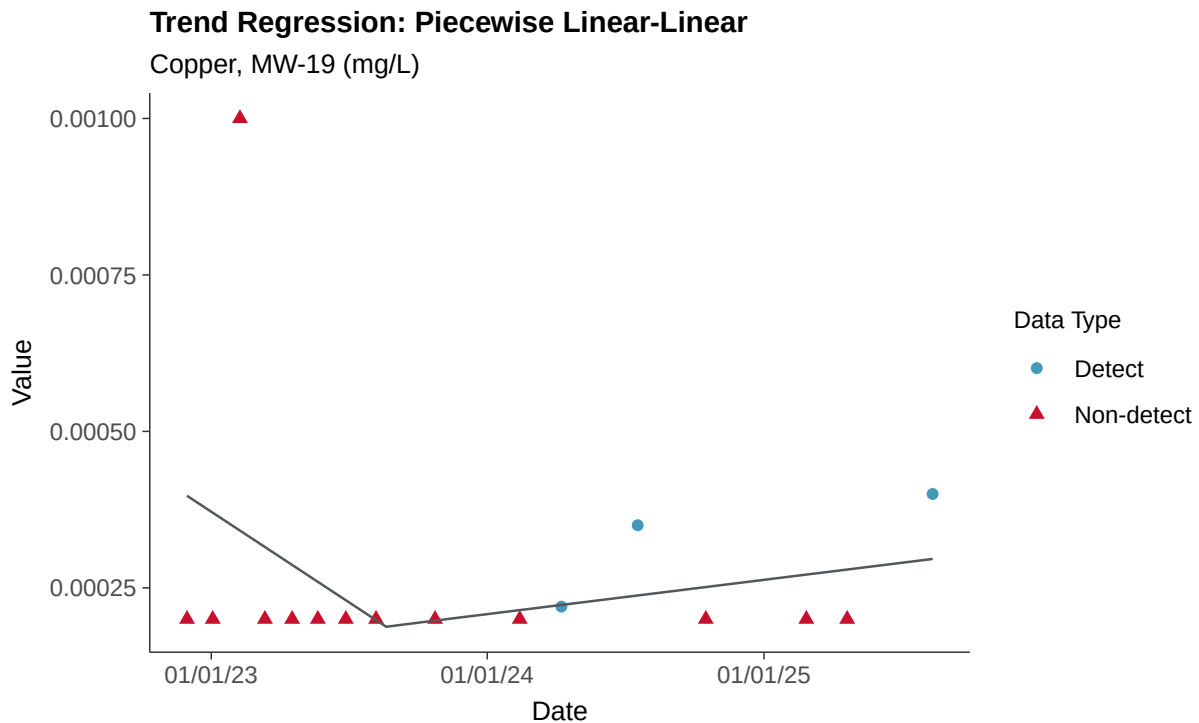
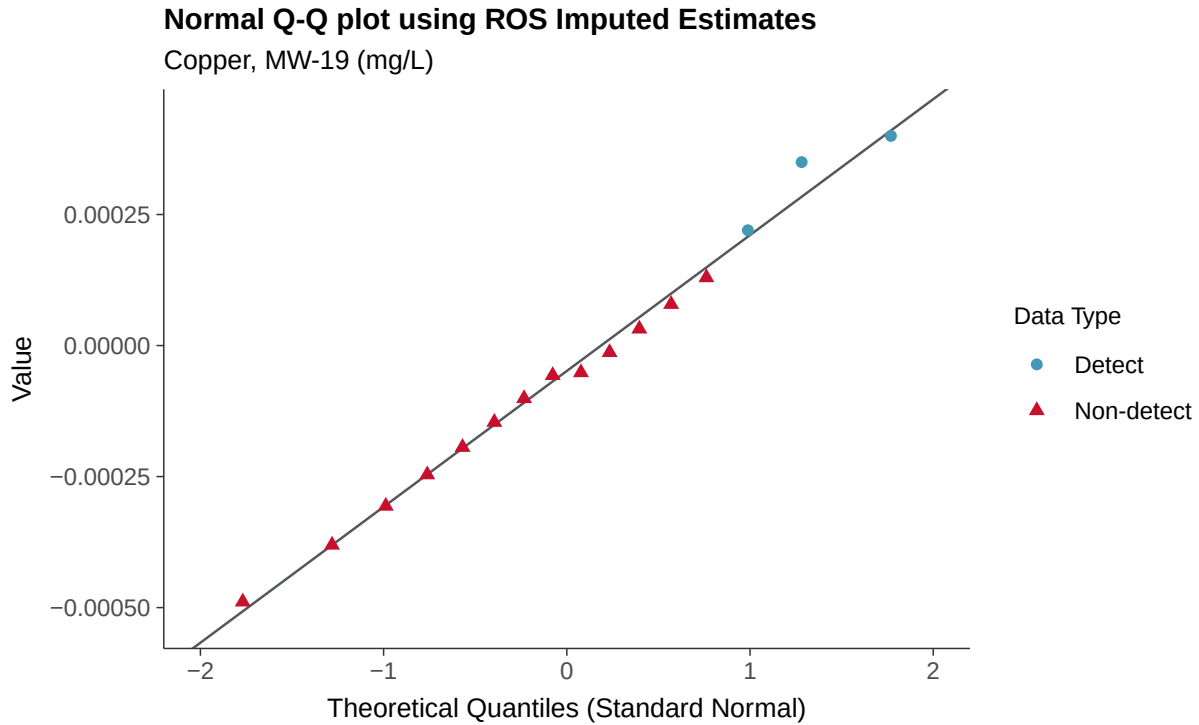
Copper, MW-19 (mg/L)

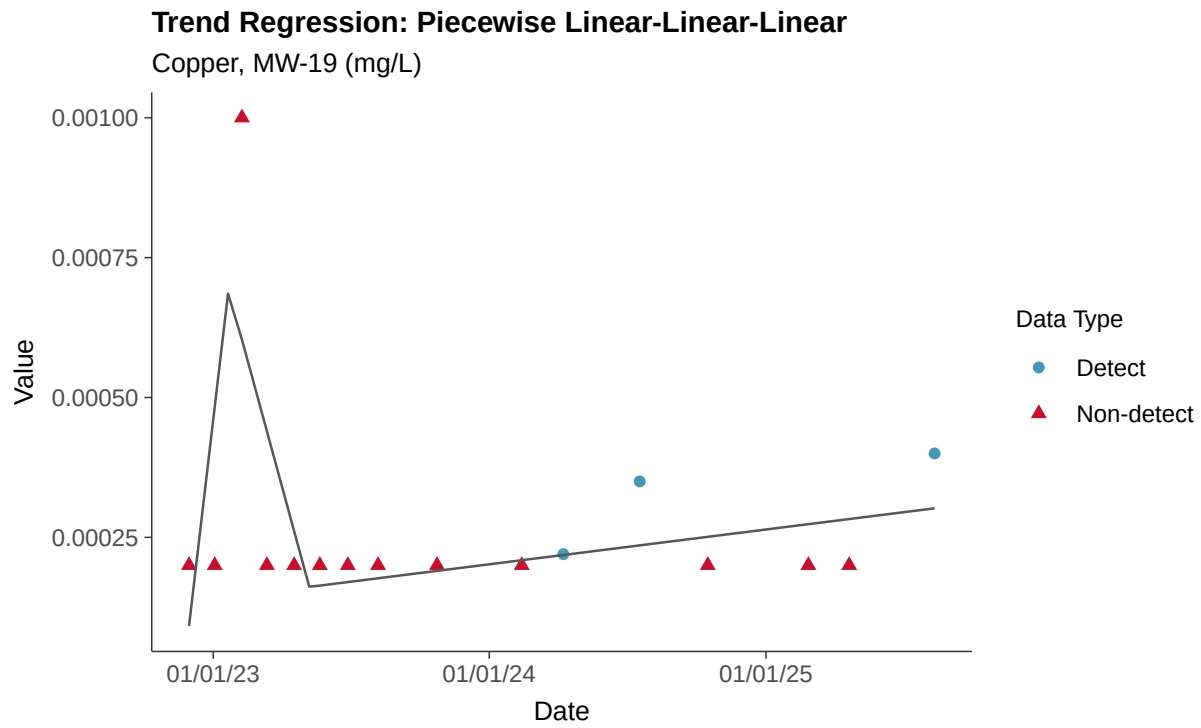


Boxplot by Season

Copper, MW-19 (mg/L)

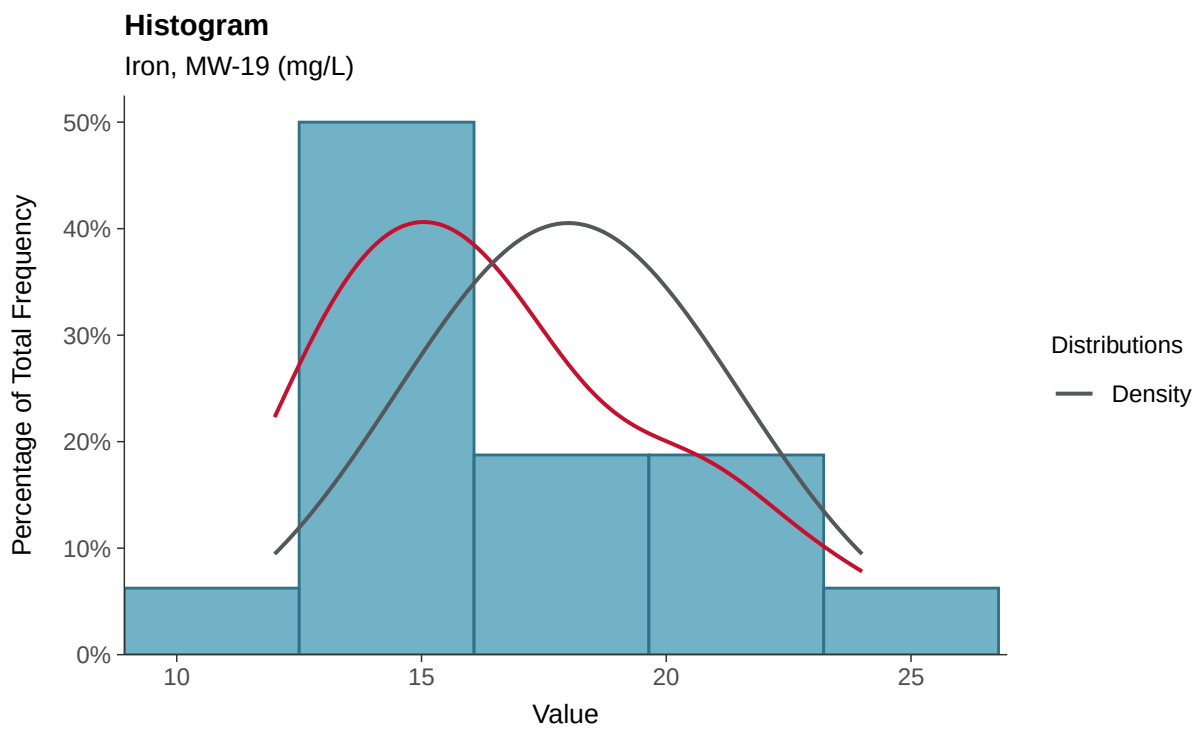
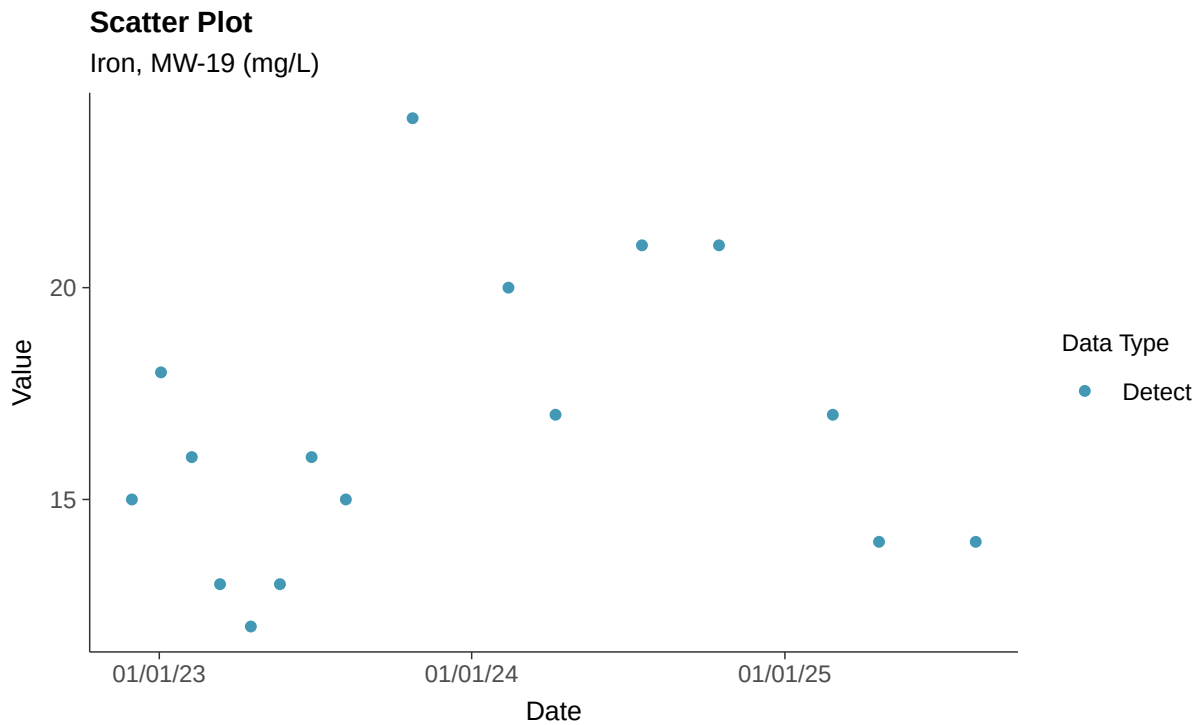






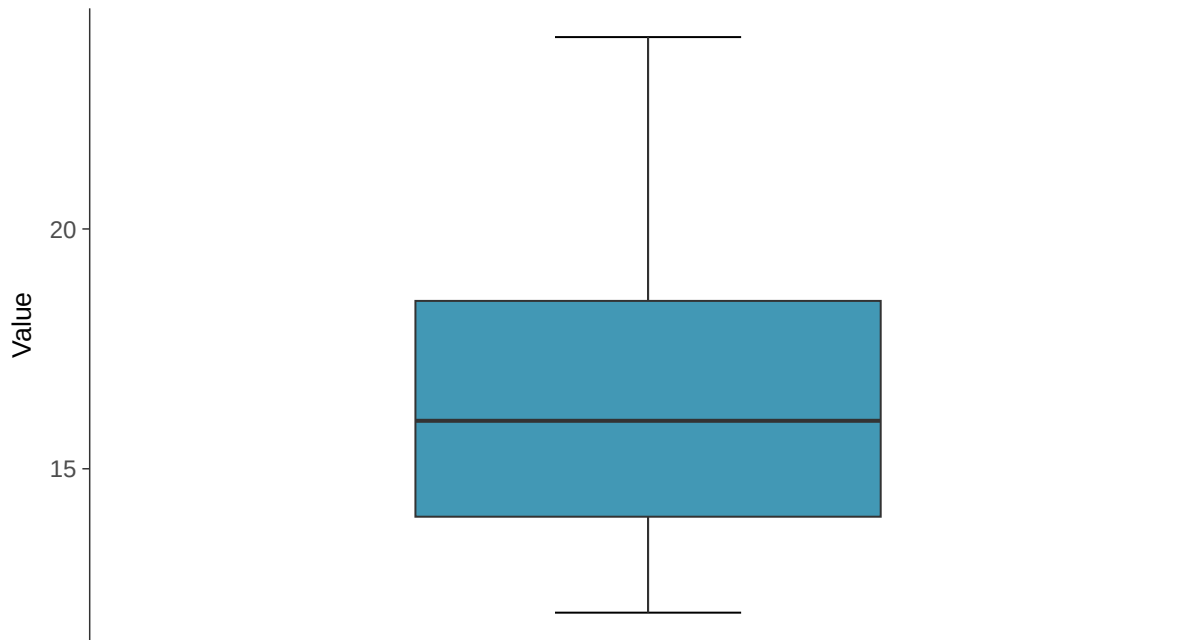
Part 115: Iron, MW-19

ID: 29_1_5_114



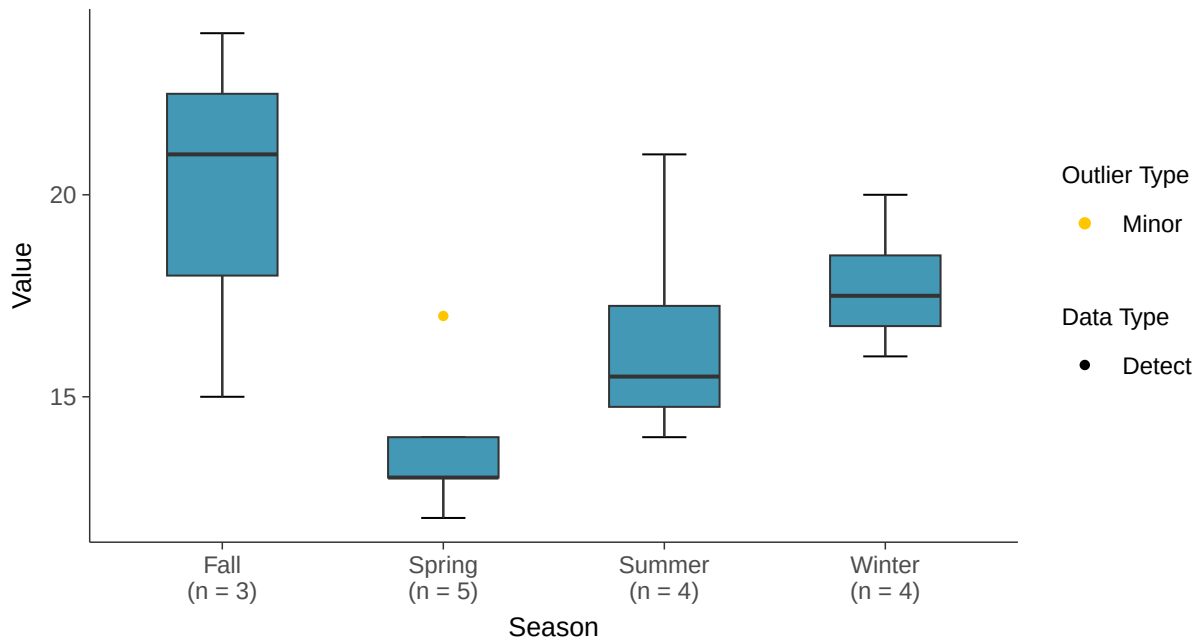
Boxplot

Iron, MW-19 (mg/L)



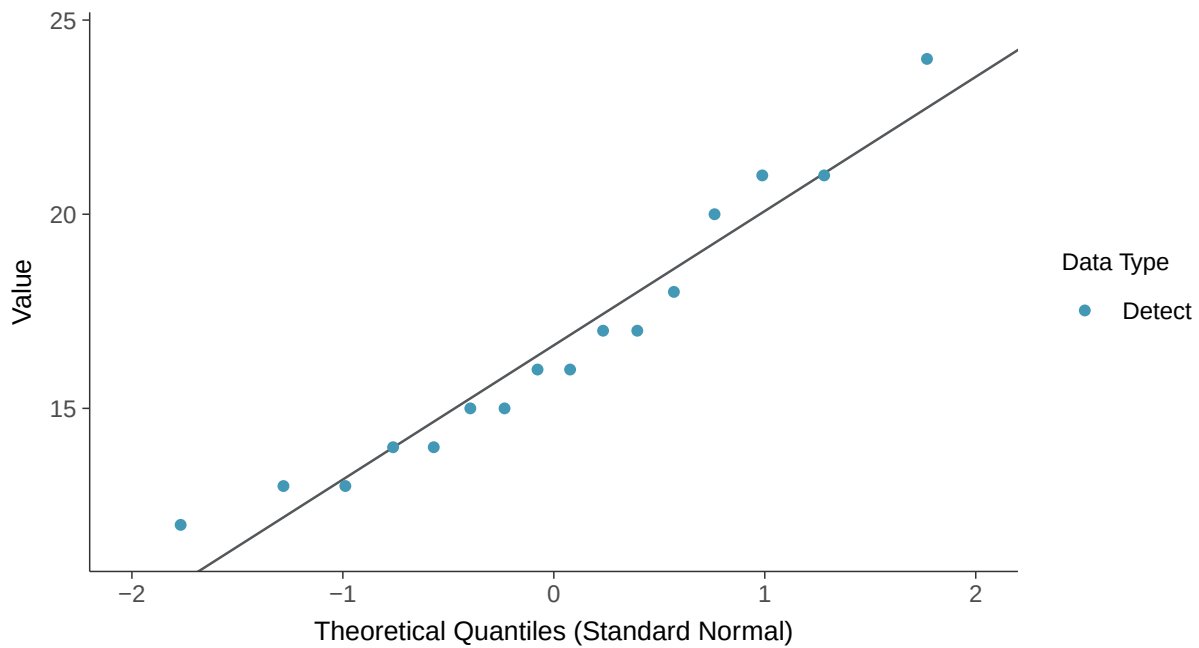
Boxplot by Season

Iron, MW-19 (mg/L)



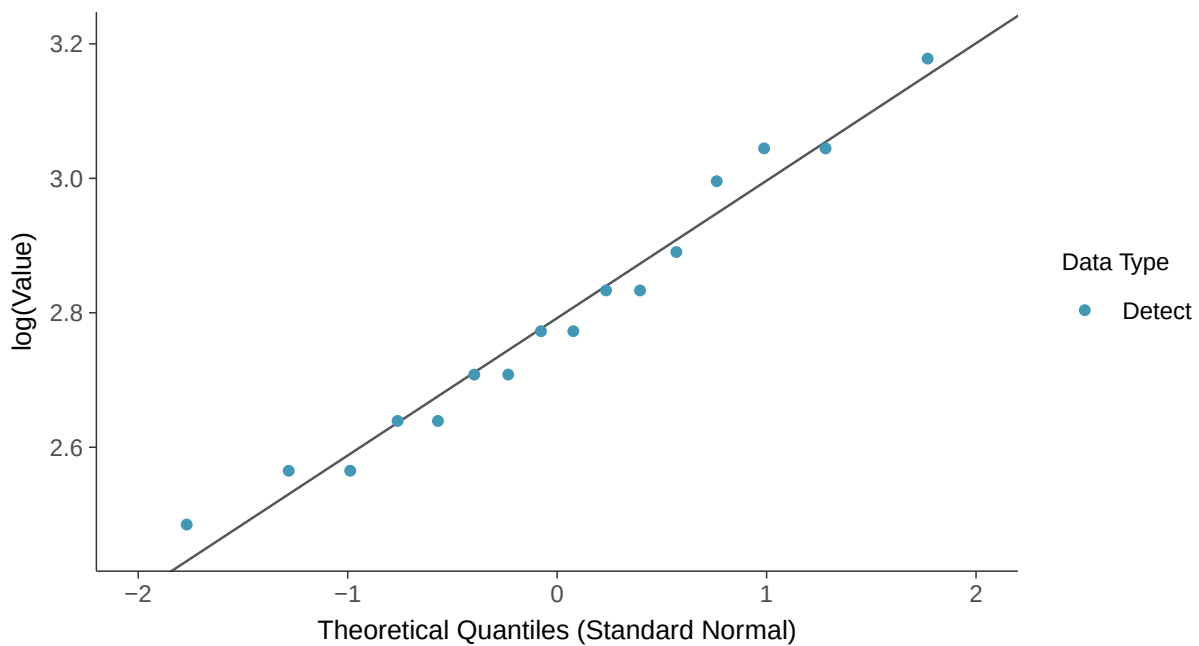
Normal Q-Q plot

Iron, MW-19 (mg/L)



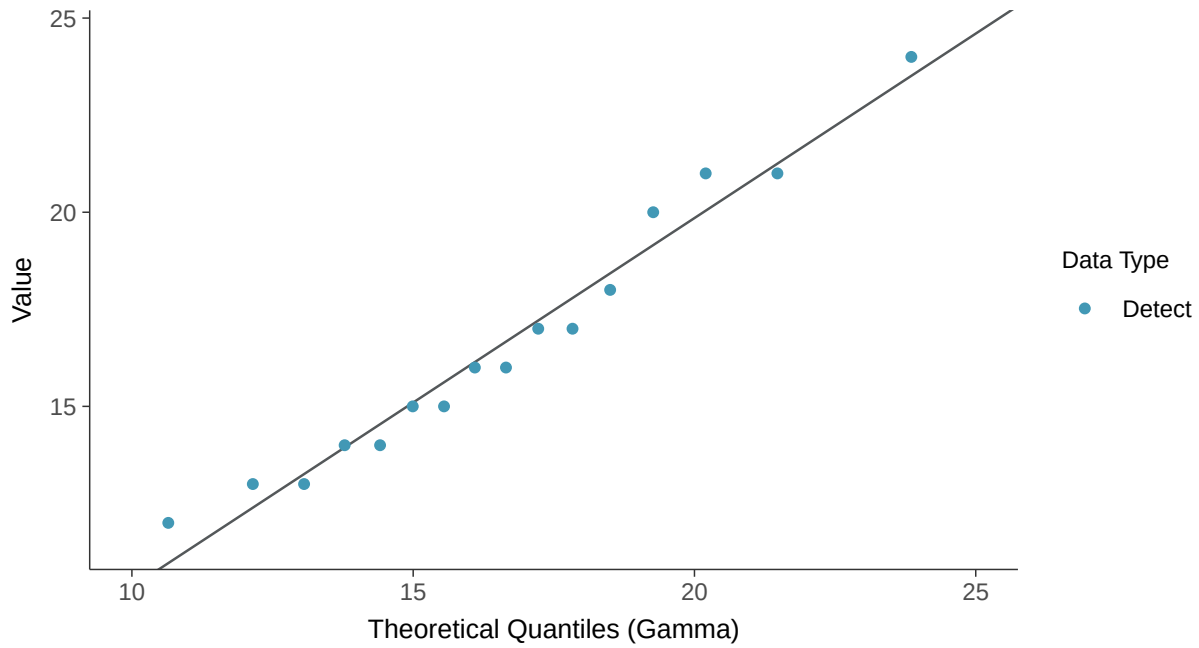
Lognormal Q-Q plot

Iron, MW-19 (mg/L)



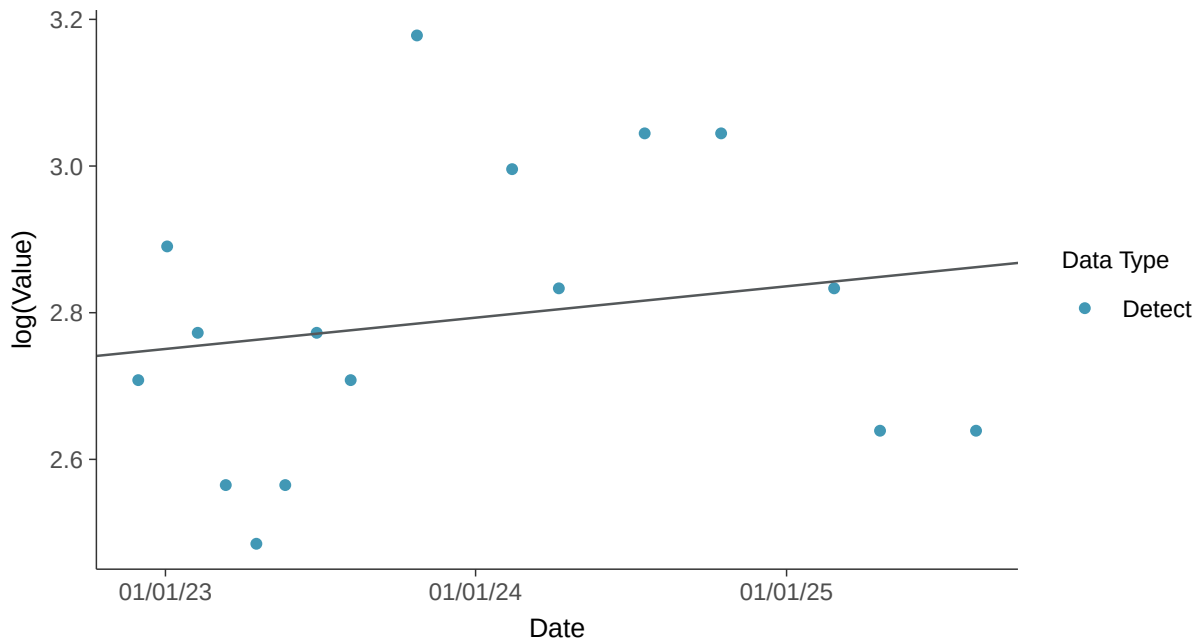
Gamma Q-Q plot

Iron, MW-19 (mg/L)



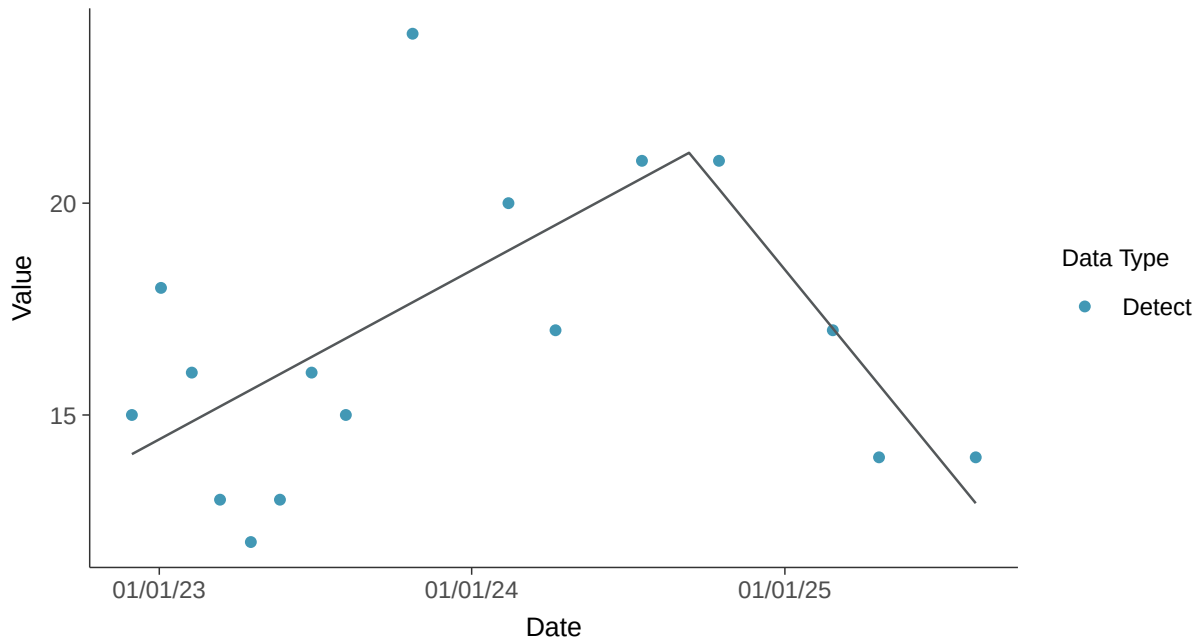
Trend Regression: Lognormal MLE

Iron, MW-19 (mg/L)



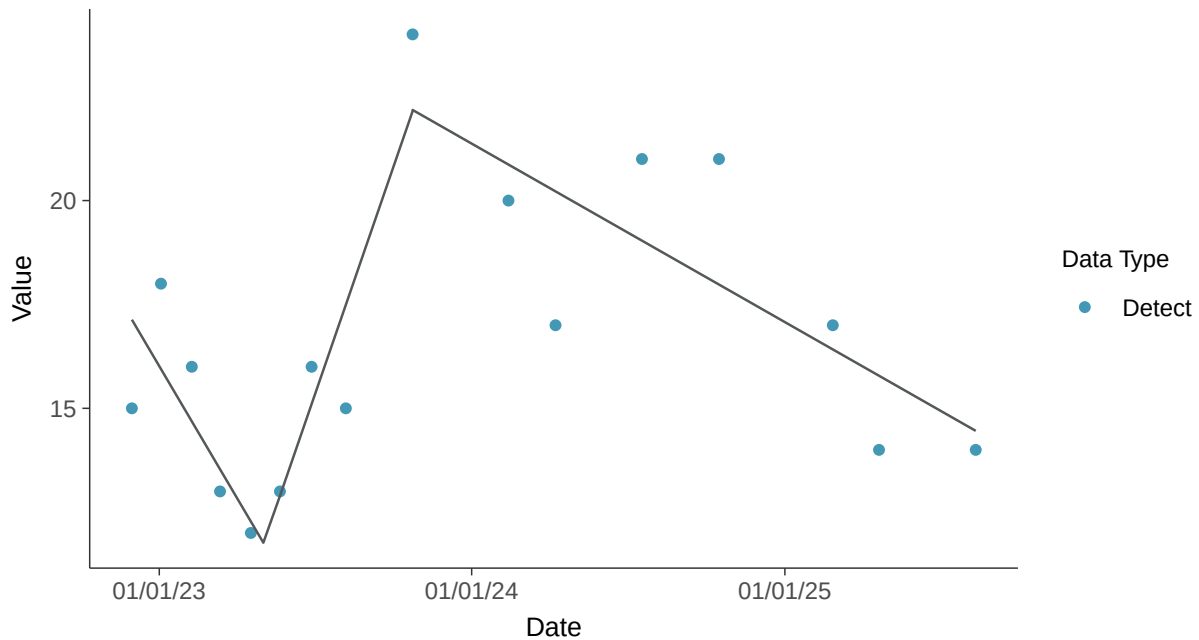
Trend Regression: Piecewise Linear-Linear

Iron, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-19 (mg/L)

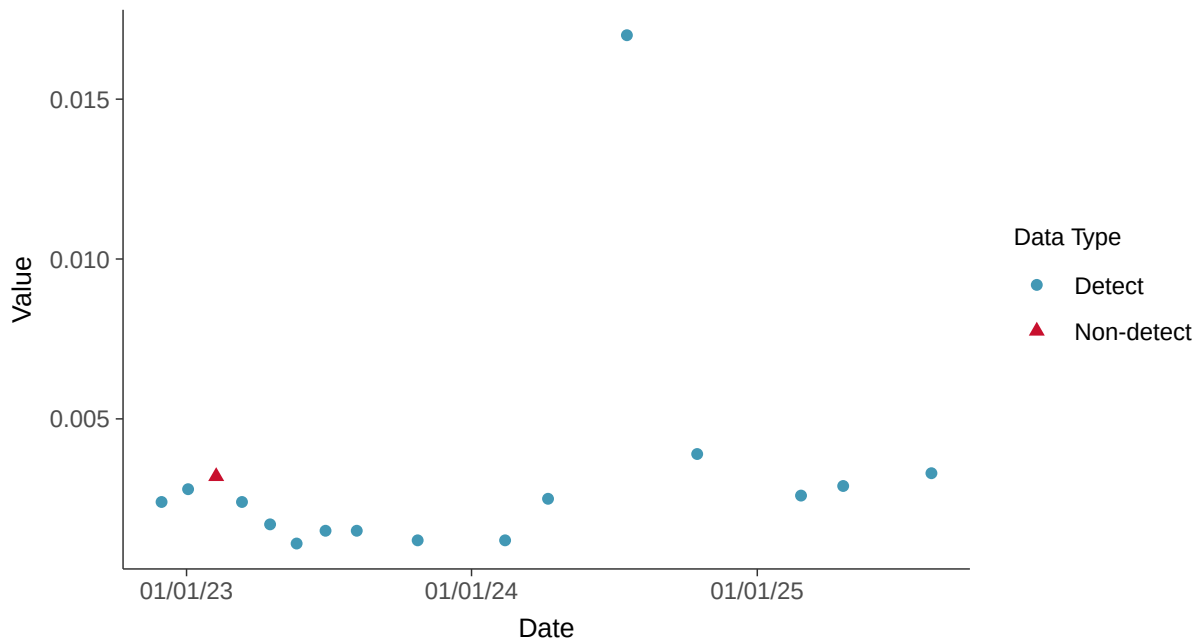


Part 115: Nickel, MW-19

ID: 29_1_5_119

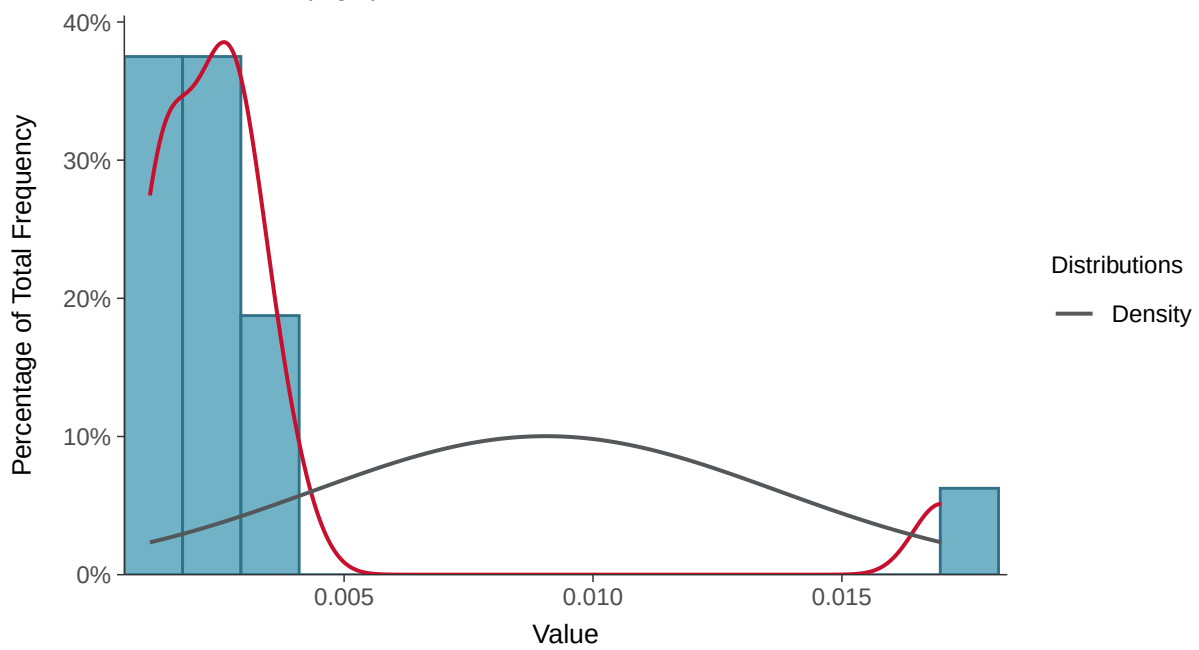
Scatter Plot

Nickel, MW-19 (mg/L)



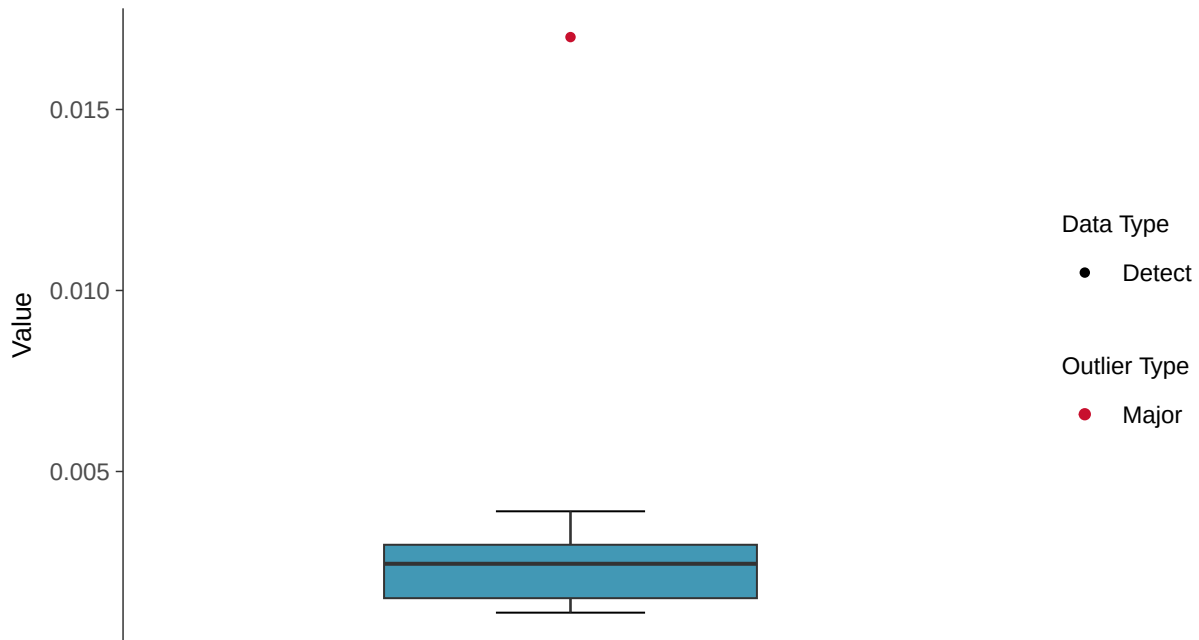
Histogram

Nickel, MW-19 (mg/L)



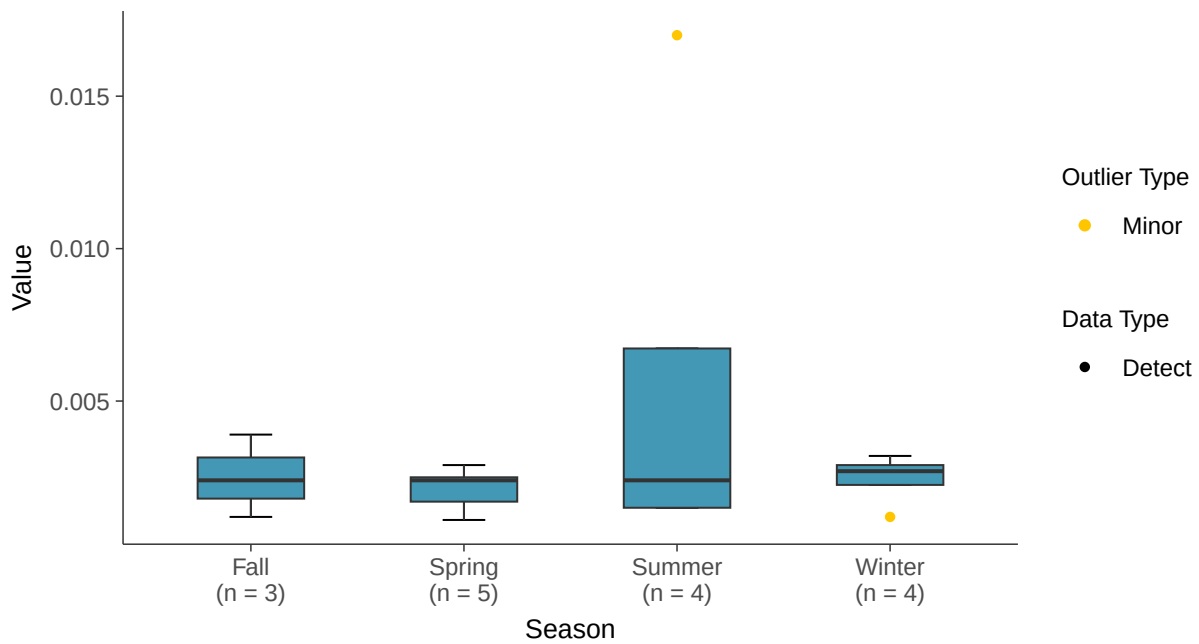
Boxplot

Nickel, MW-19 (mg/L)



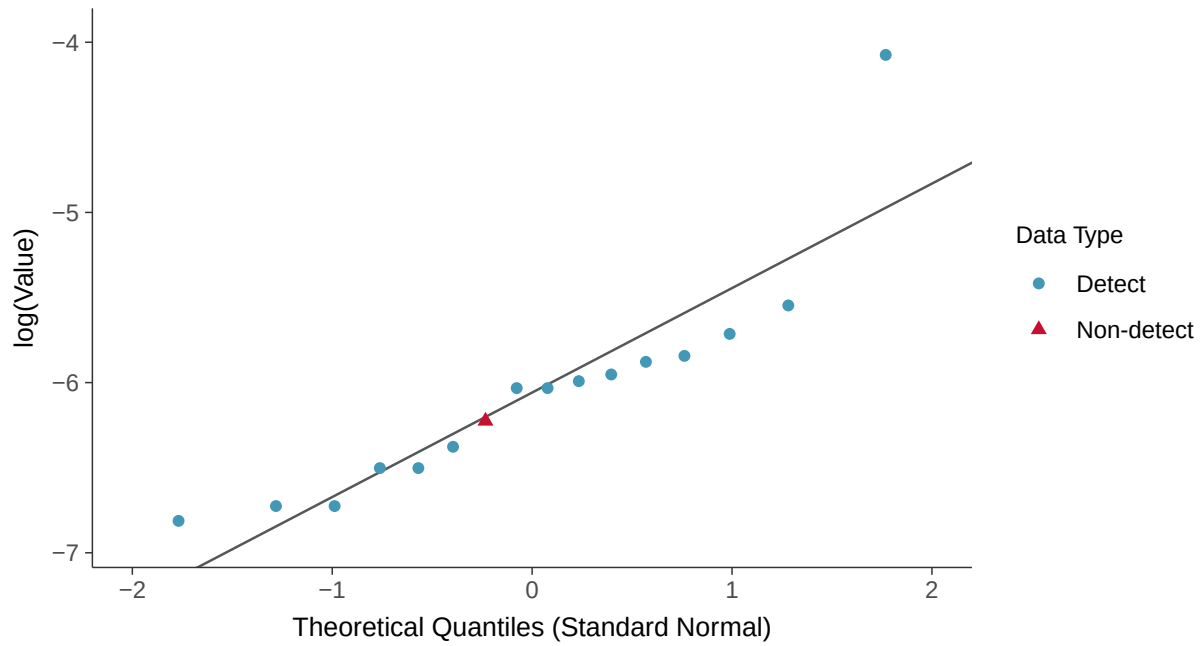
Boxplot by Season

Nickel, MW-19 (mg/L)



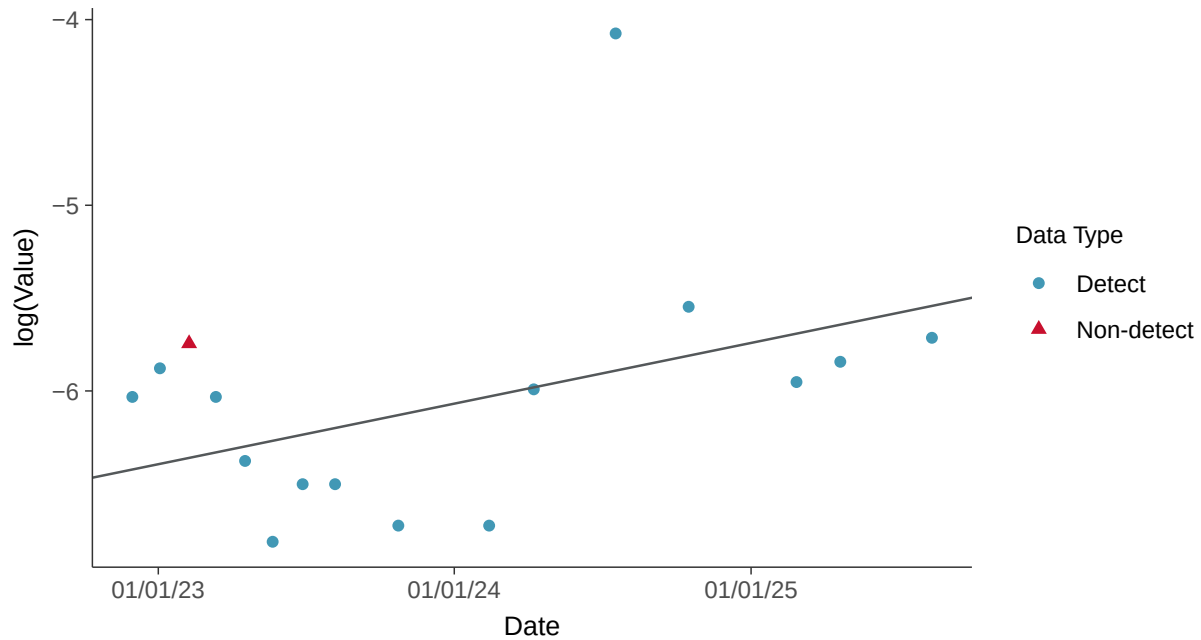
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-19 (mg/L)



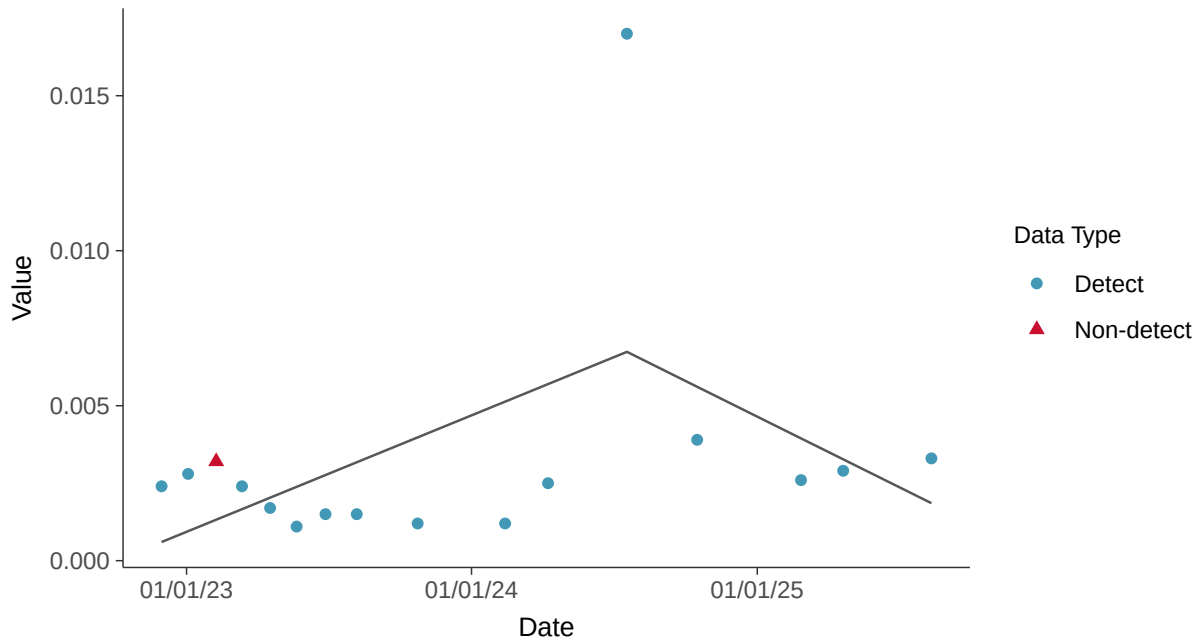
Trend Regression: Lognormal MLE

Nickel, MW-19 (mg/L)



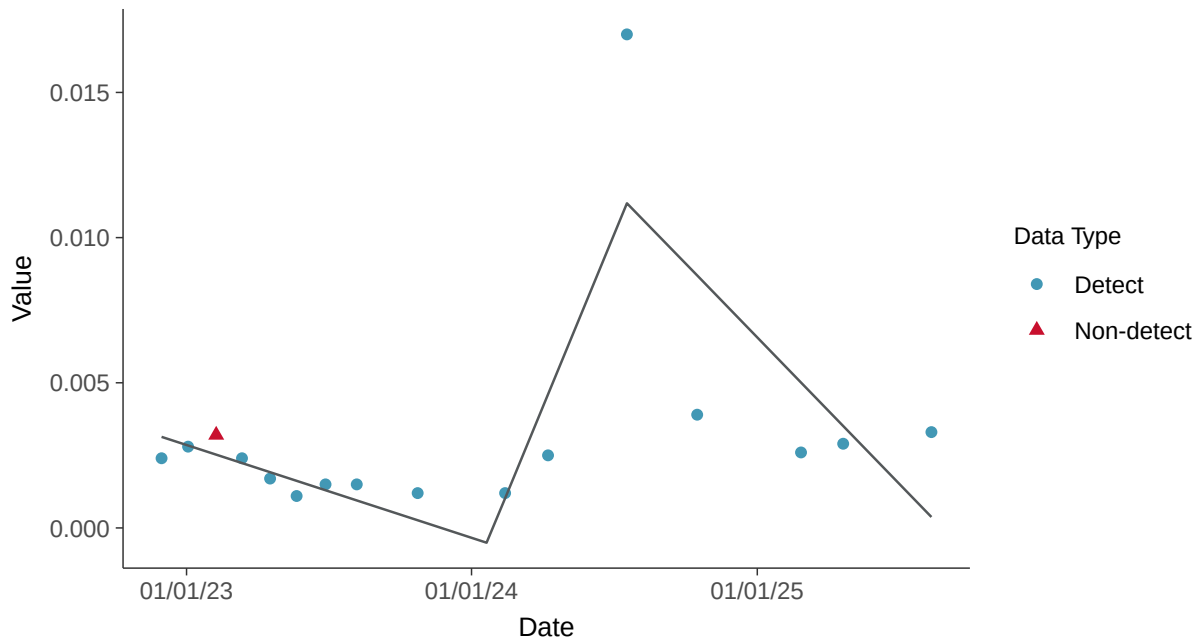
Trend Regression: Piecewise Linear-Linear

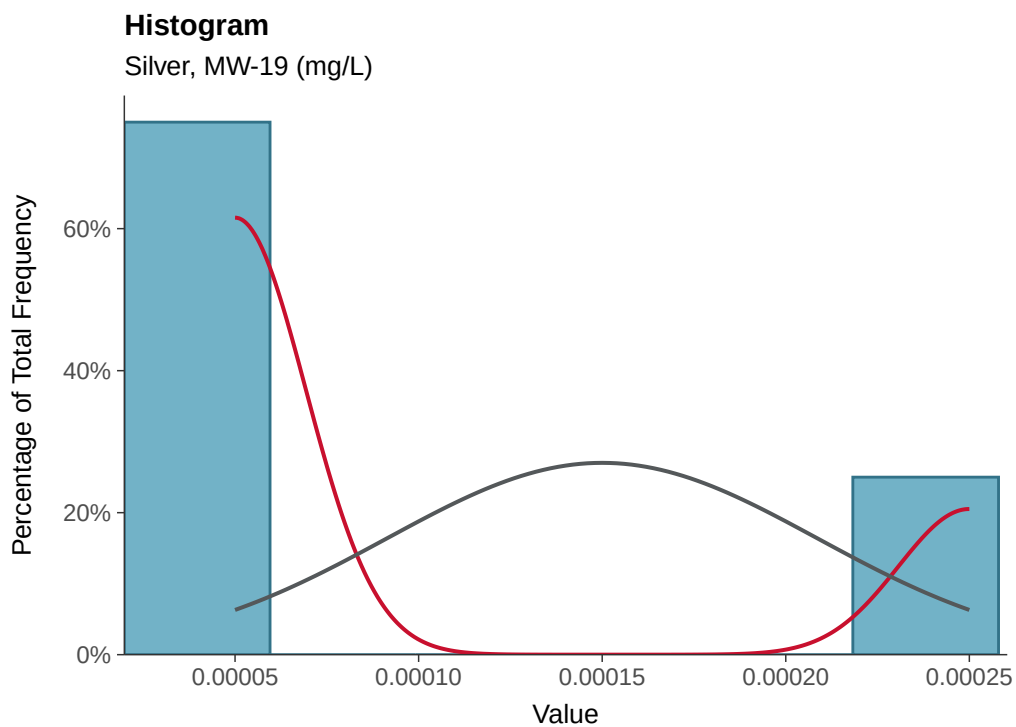
Nickel, MW-19 (mg/L)

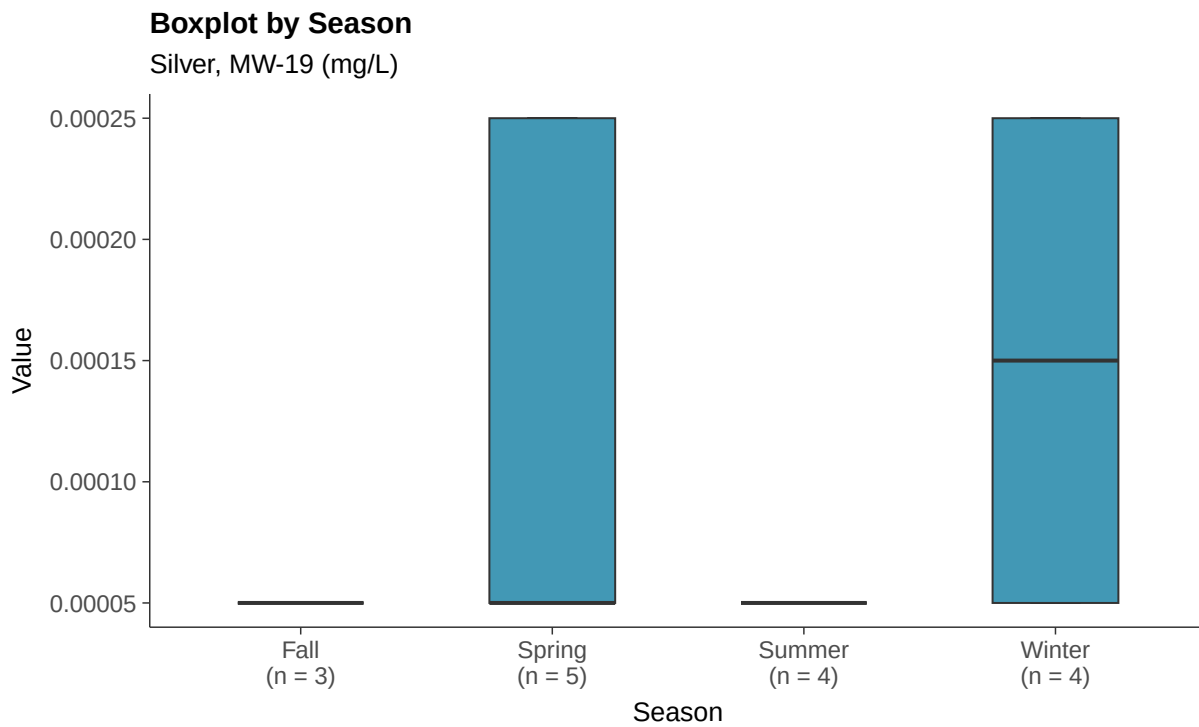
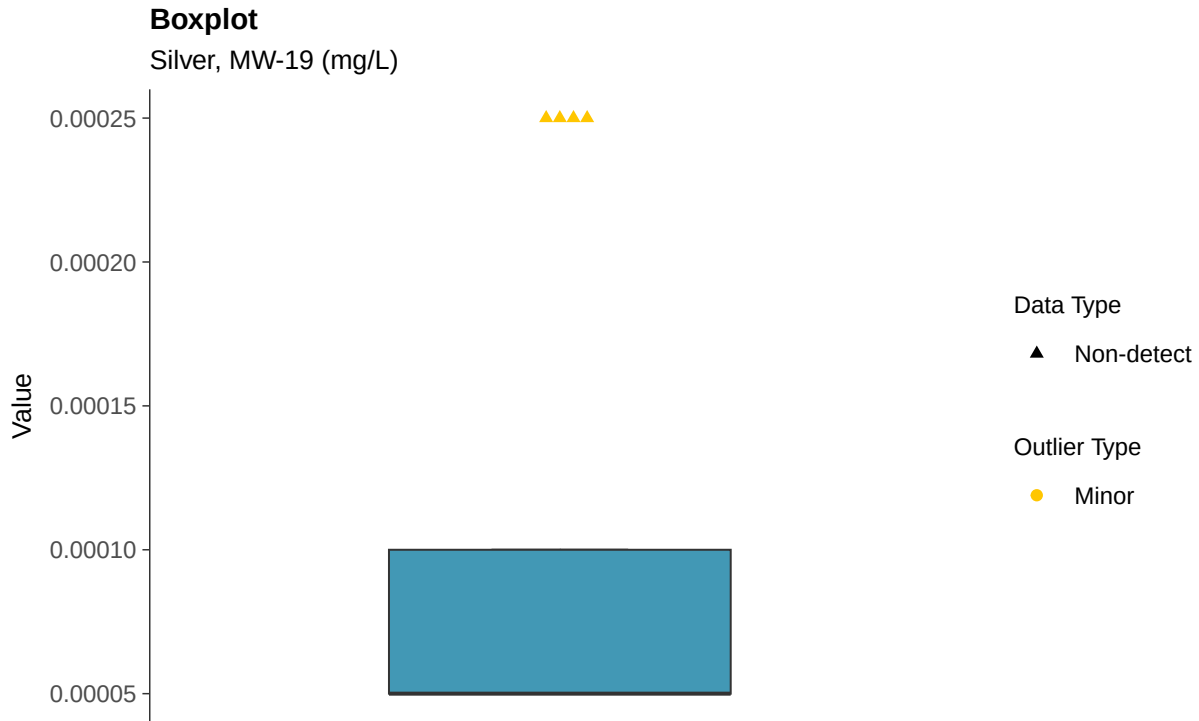


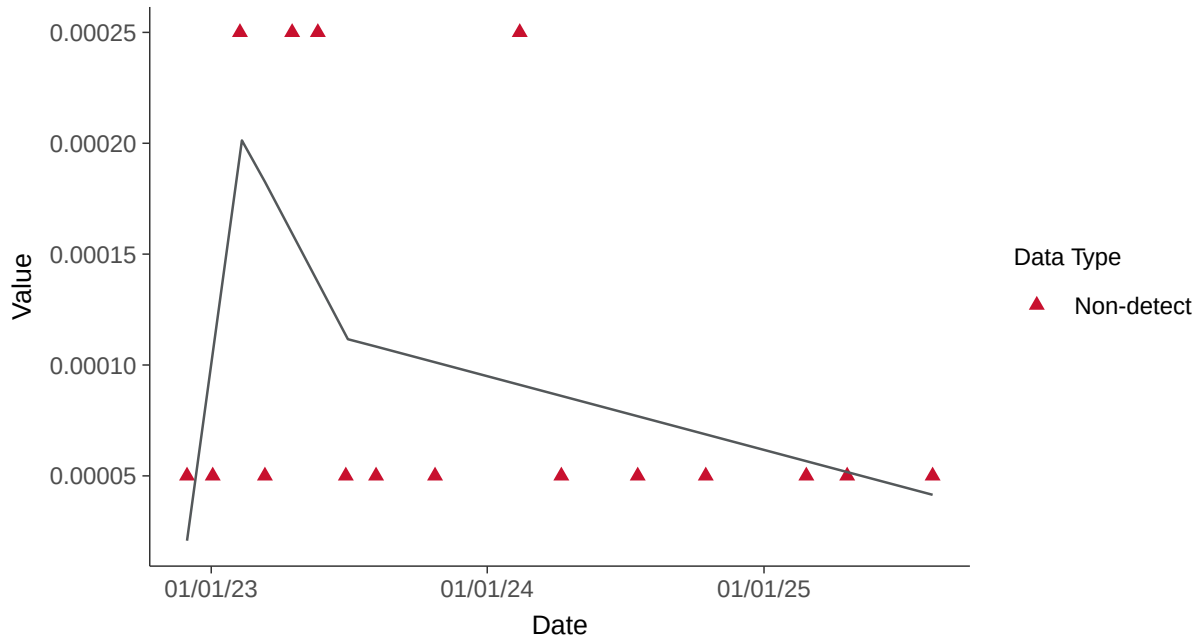
Trend Regression: Piecewise Linear-Linear-Linear

Nickel, MW-19 (mg/L)



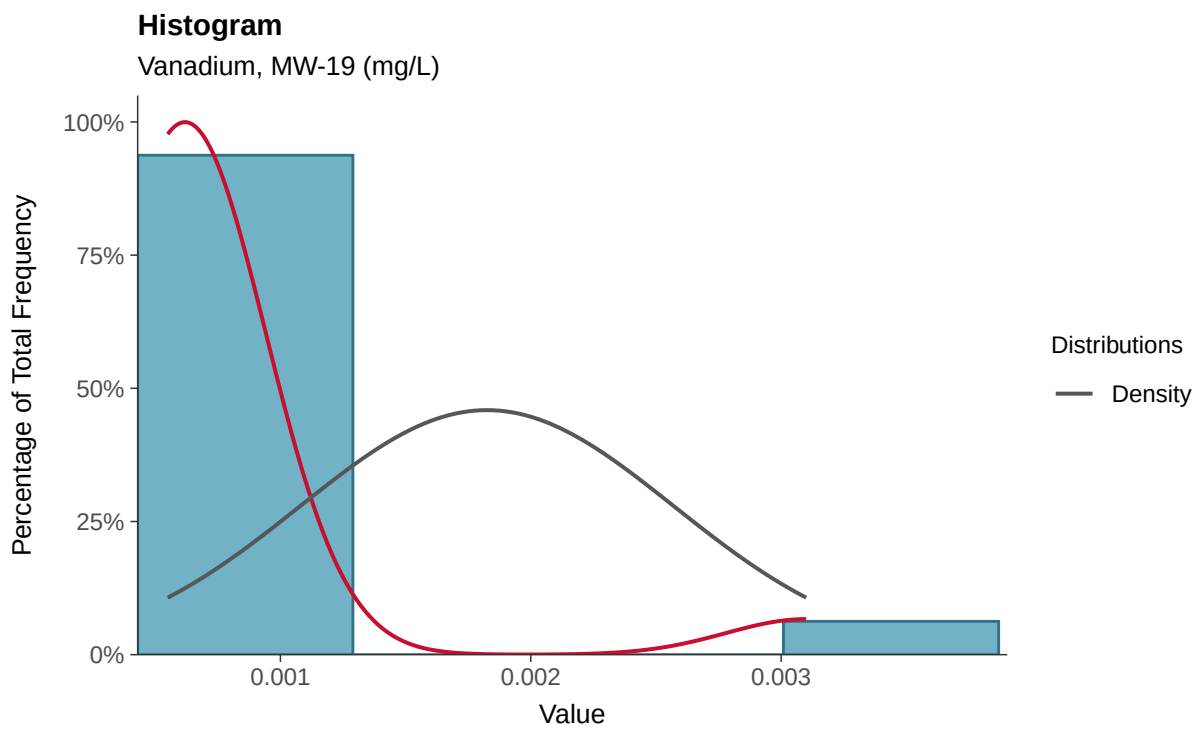
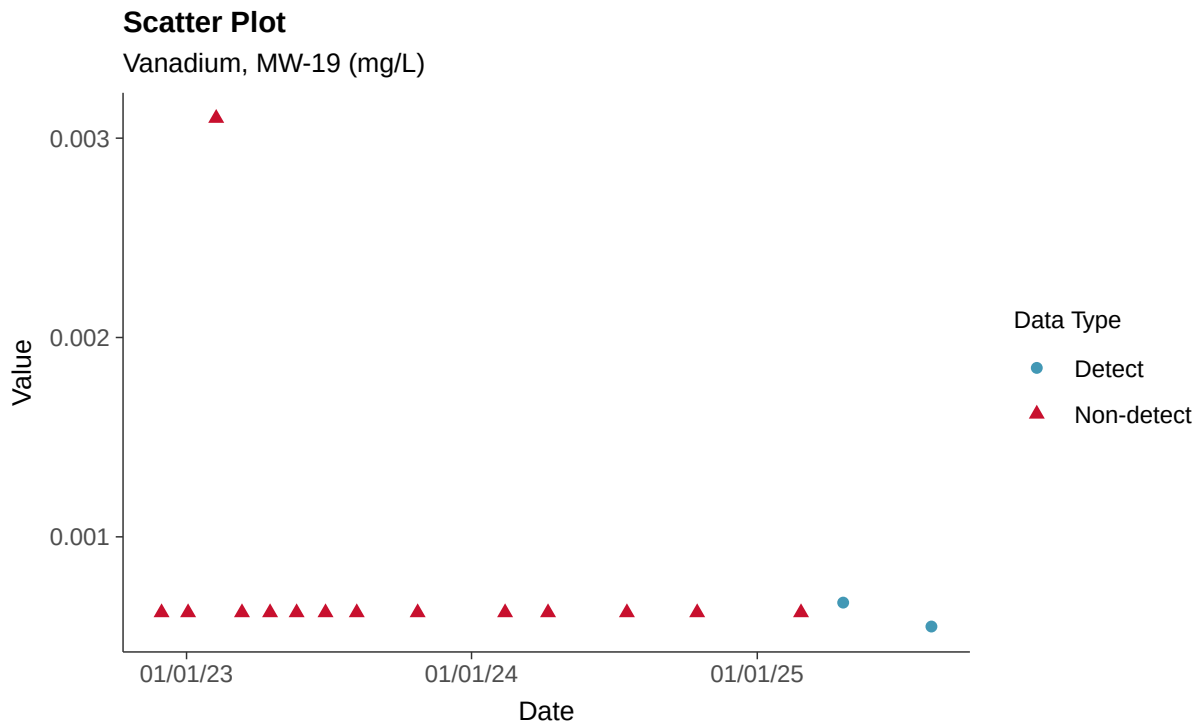






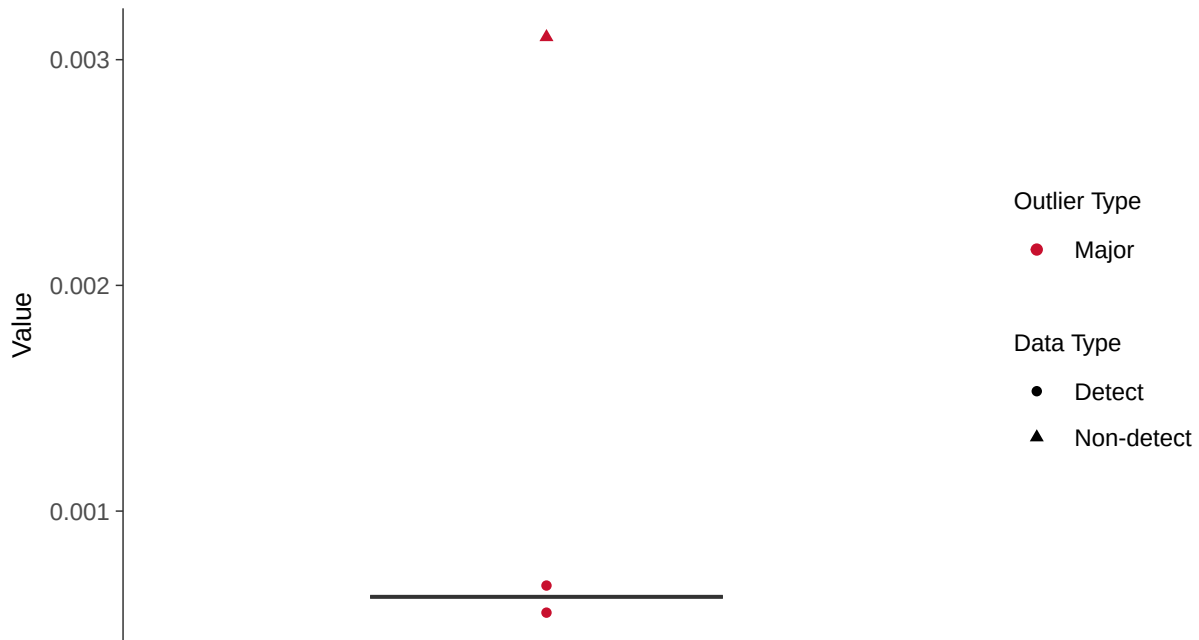
Part 115: Vanadium, MW-19

ID: 29_1_5_128



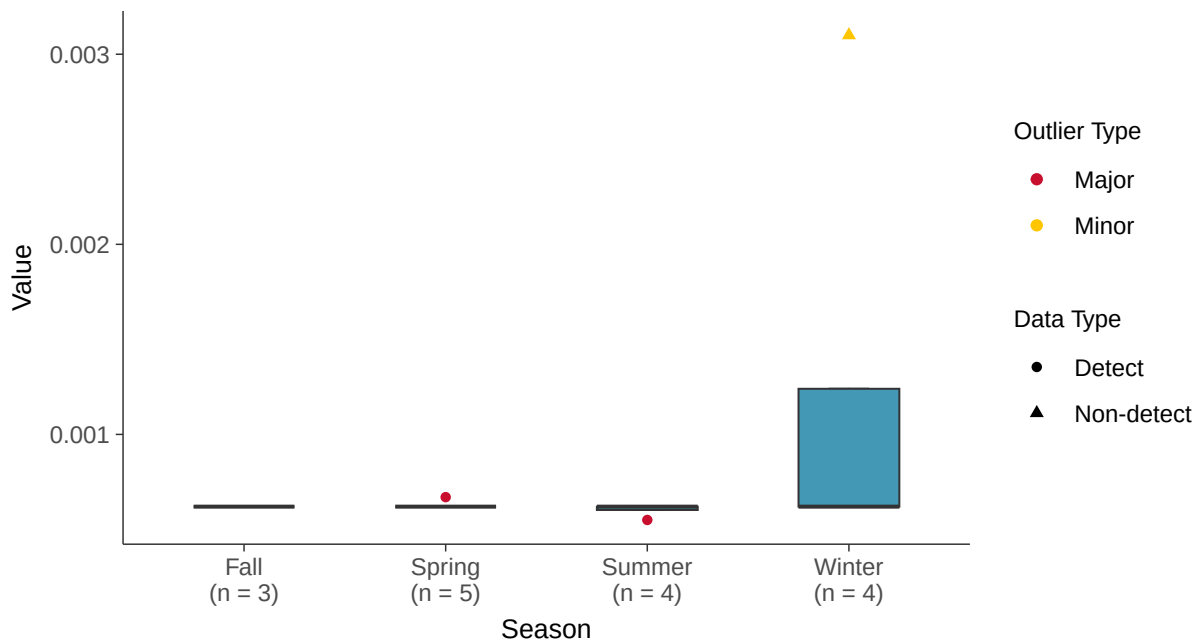
Boxplot

Vanadium, MW-19 (mg/L)



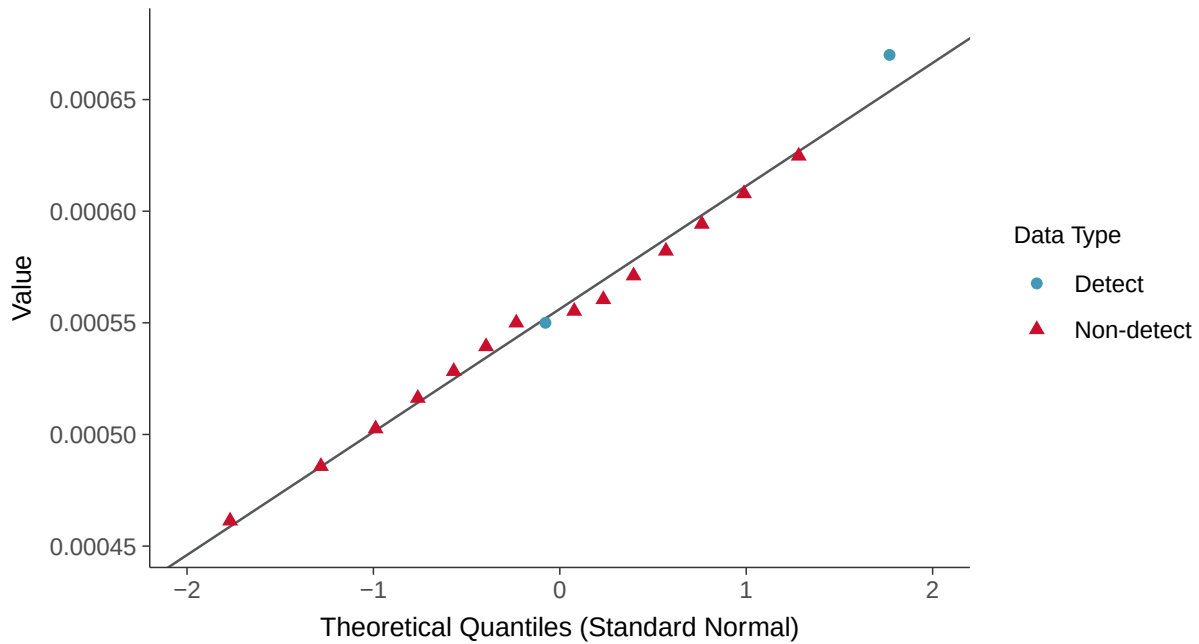
Boxplot by Season

Vanadium, MW-19 (mg/L)



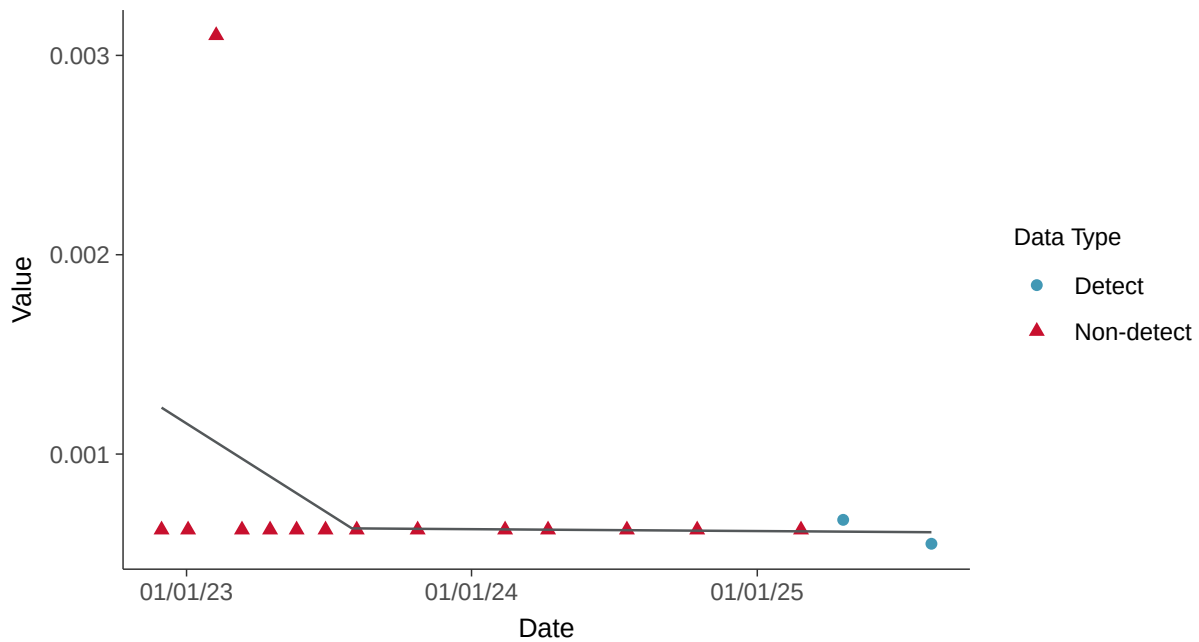
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-19 (mg/L)

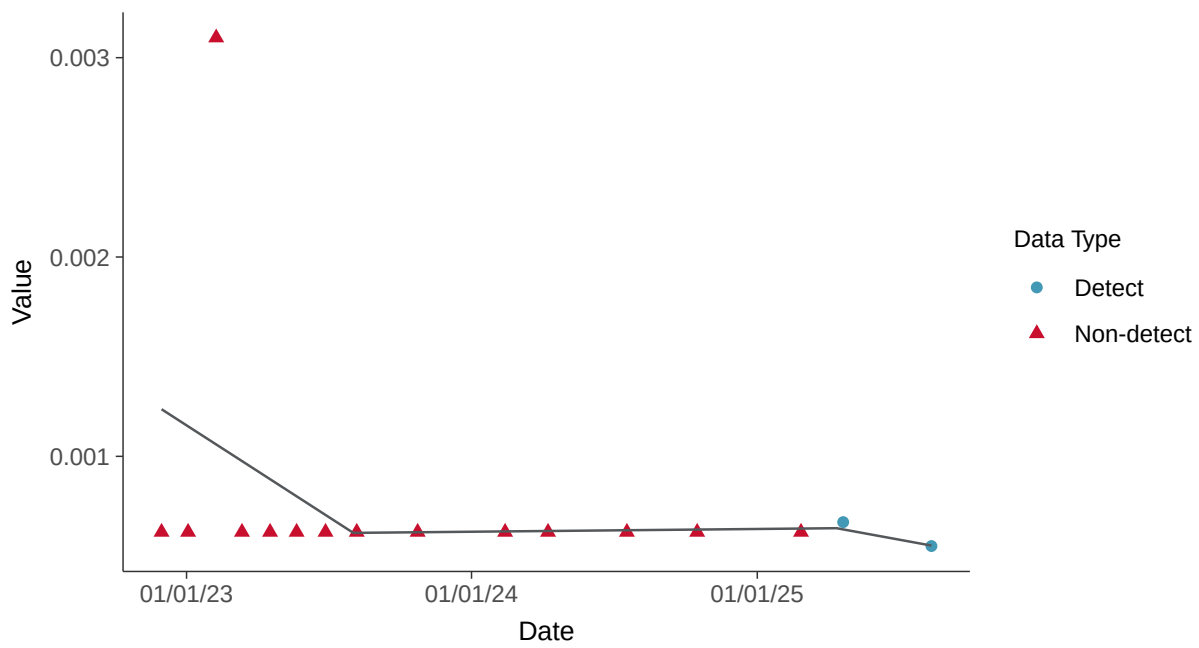


Trend Regression: Piecewise Linear-Linear

Vanadium, MW-19 (mg/L)

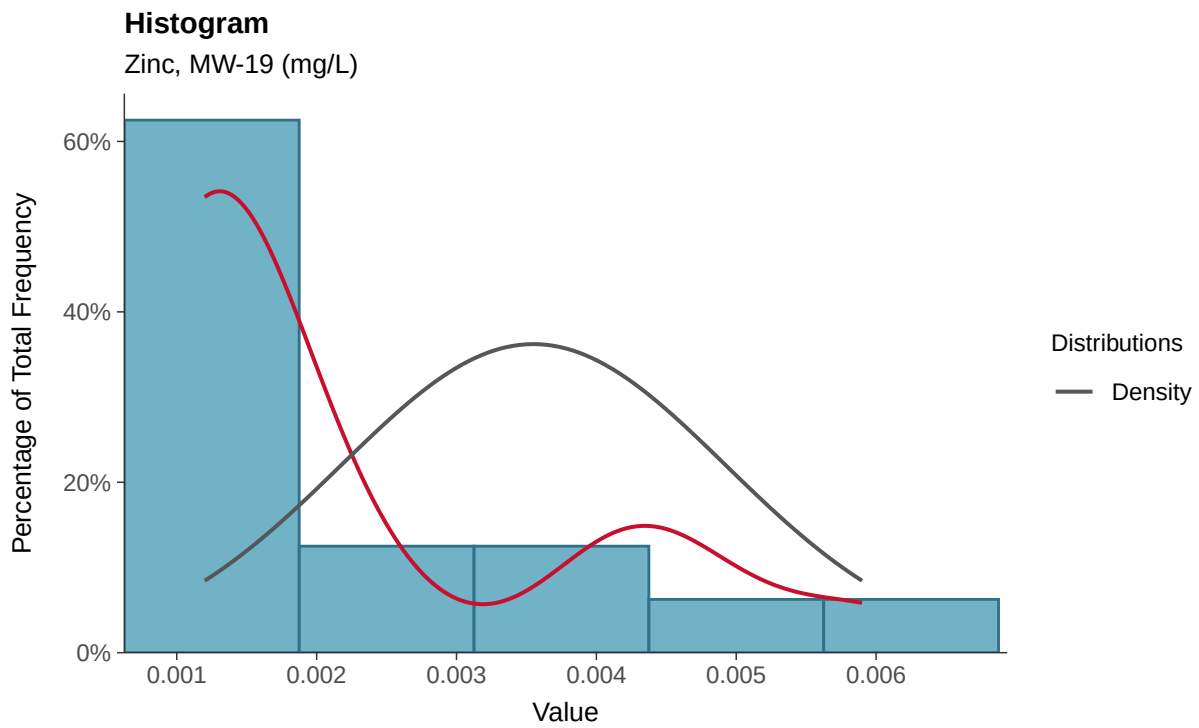
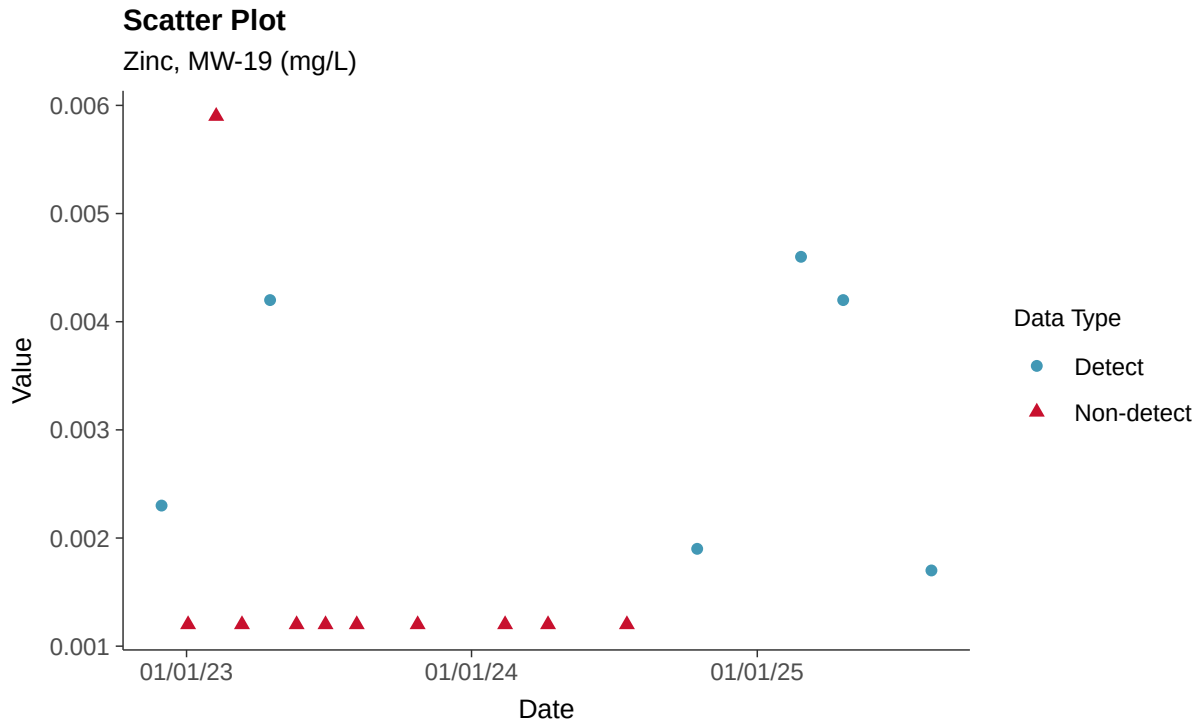


Vanadium, MW-19 (mg/L)



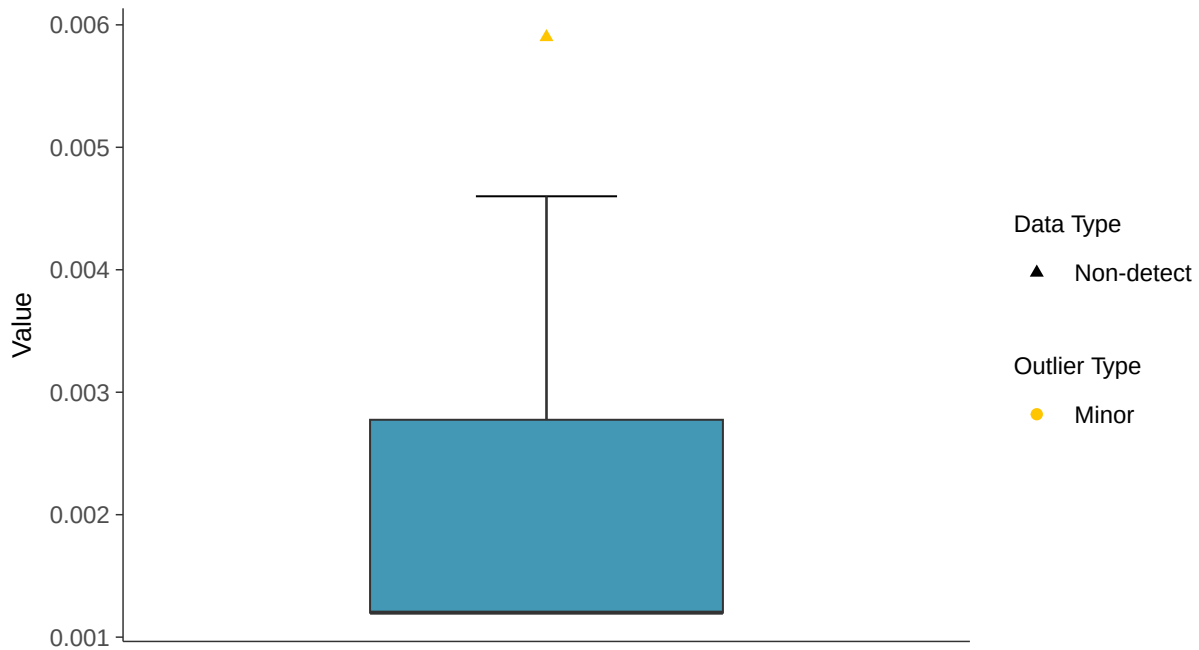
Part 115: Zinc, MW-19

ID: 29_1_5_129



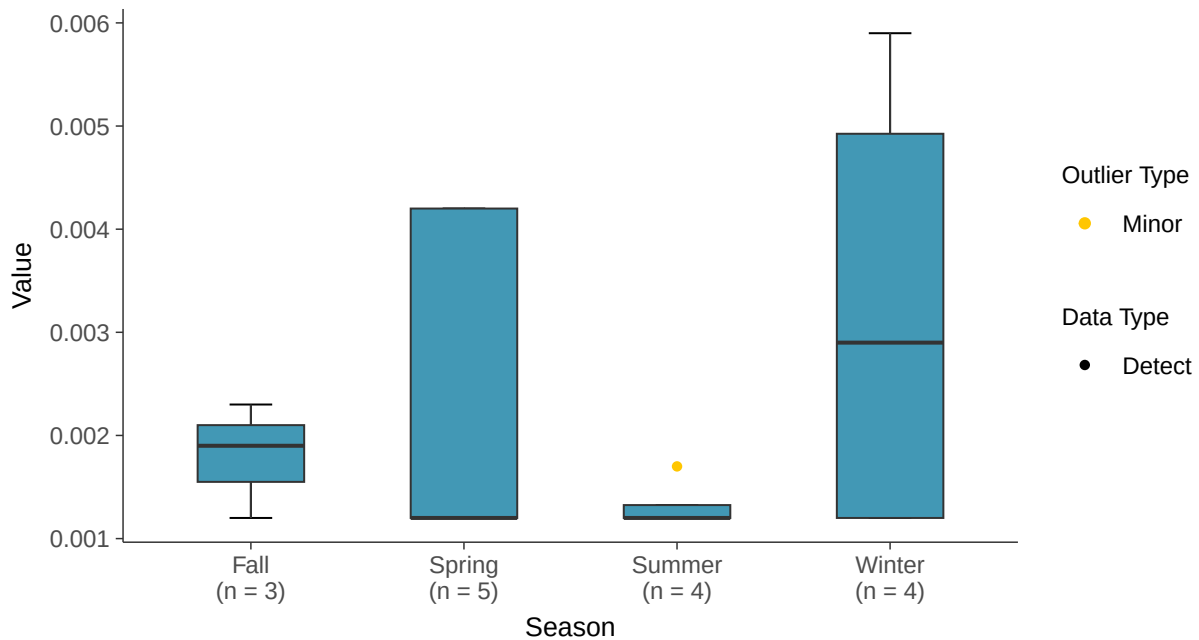
Boxplot

Zinc, MW-19 (mg/L)



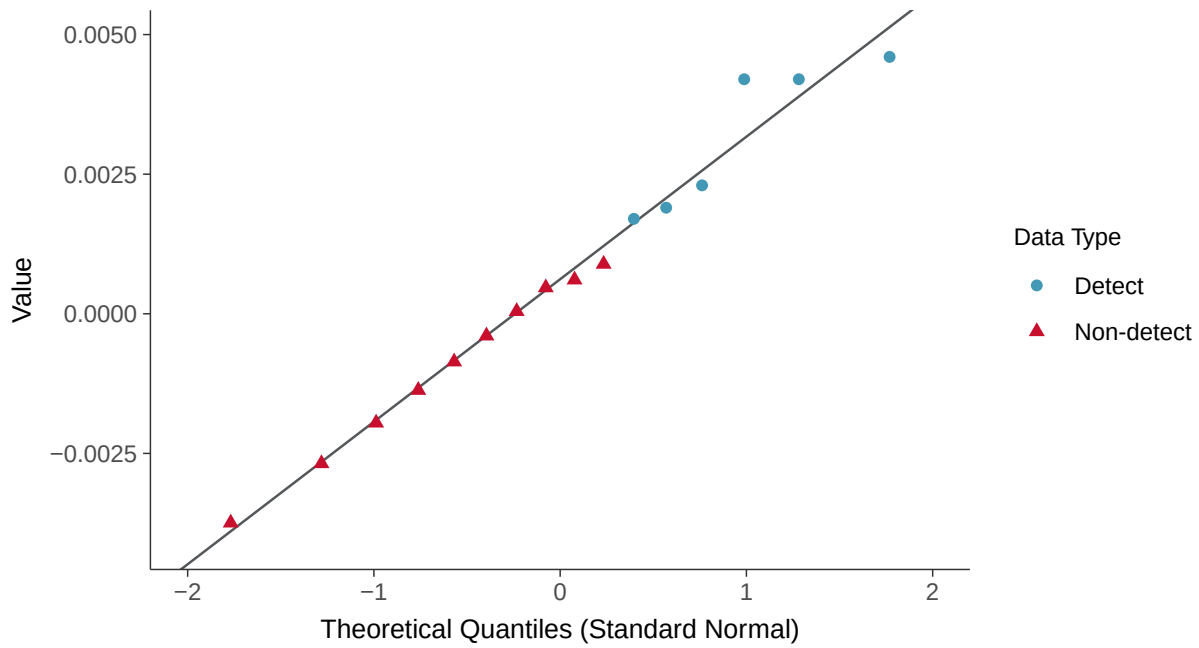
Boxplot by Season

Zinc, MW-19 (mg/L)



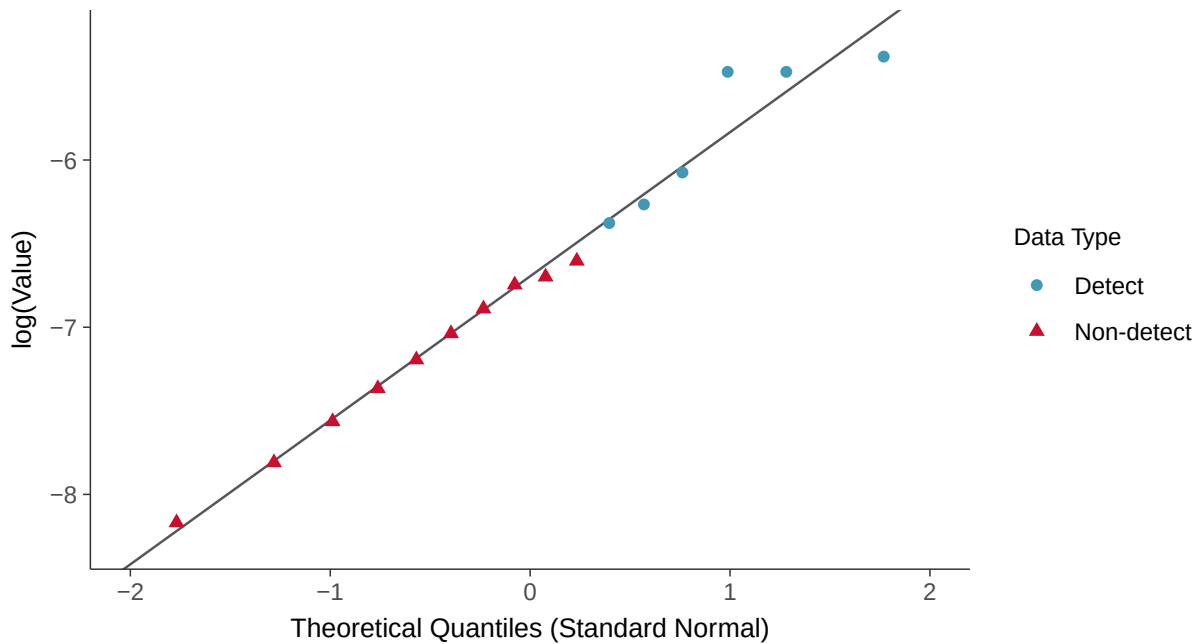
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-19 (mg/L)



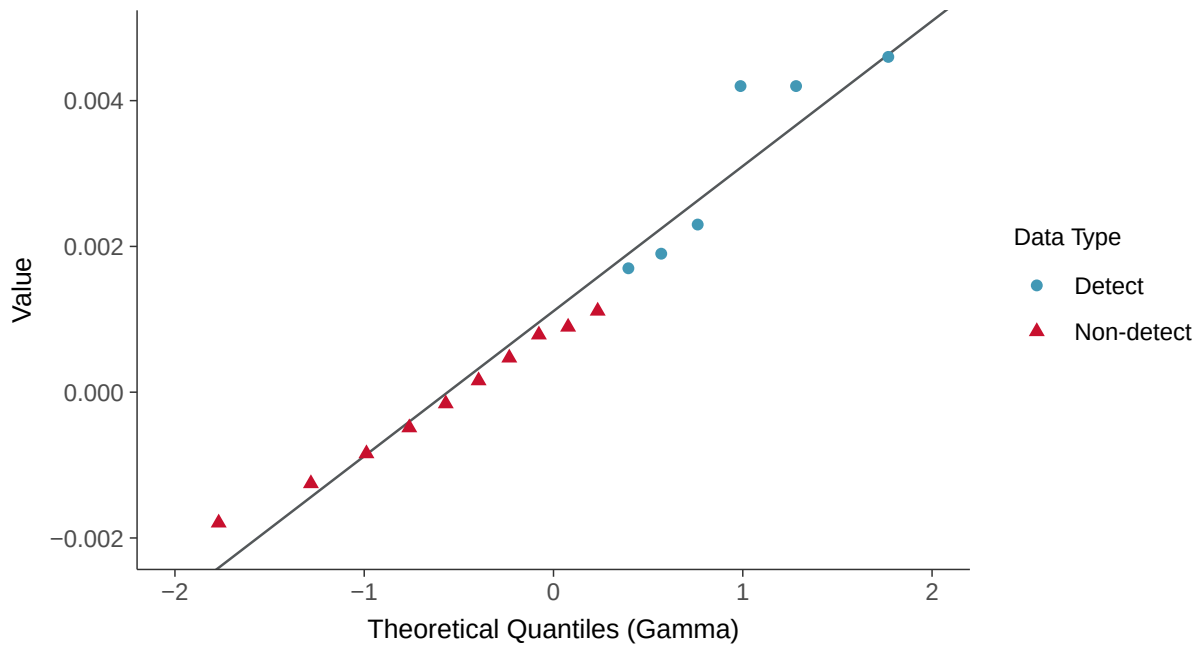
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-19 (mg/L)



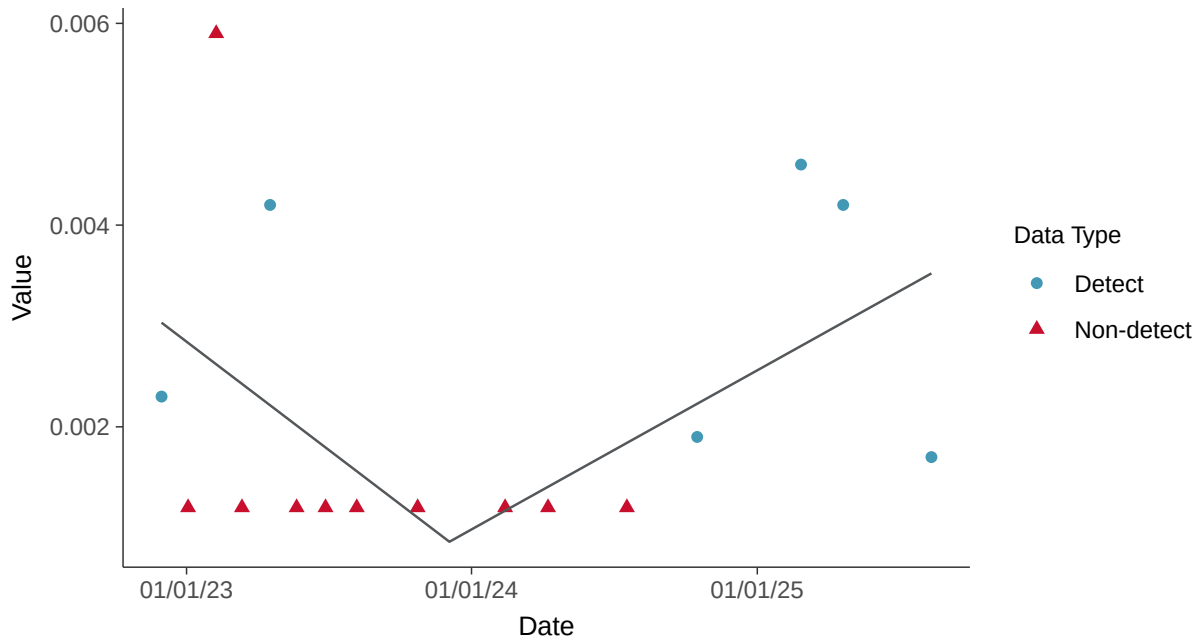
Gamma Q-Q plot using ROS Imputed Estimates

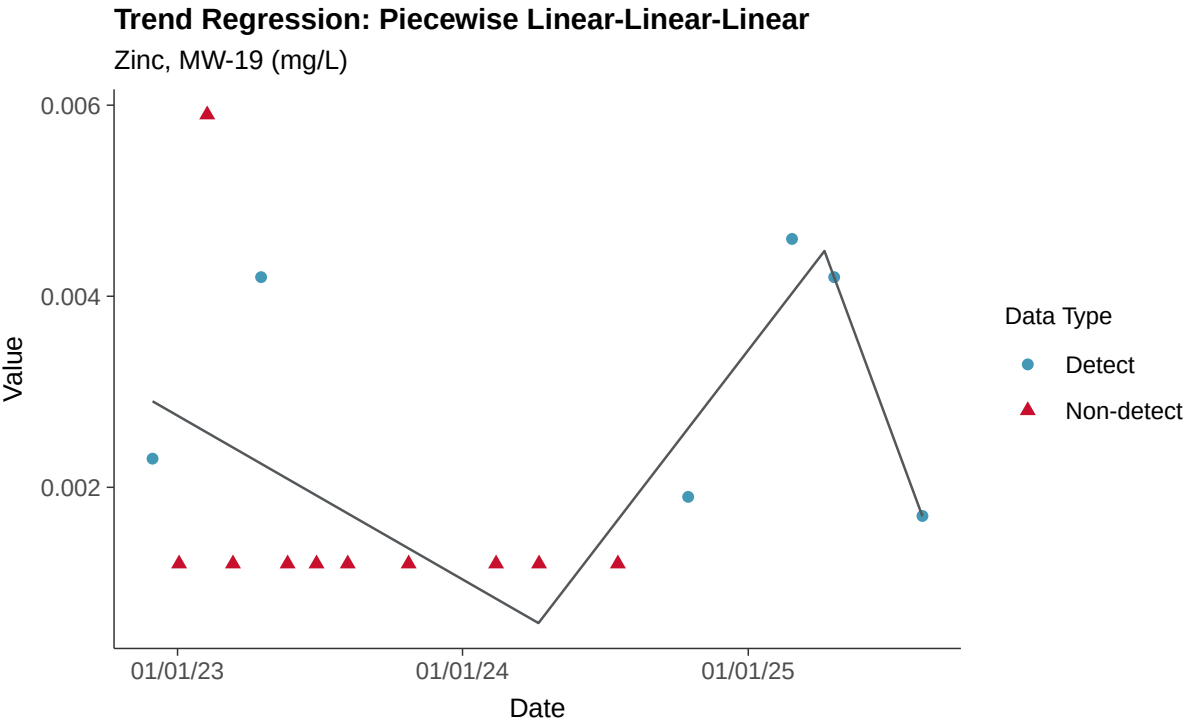
Zinc, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

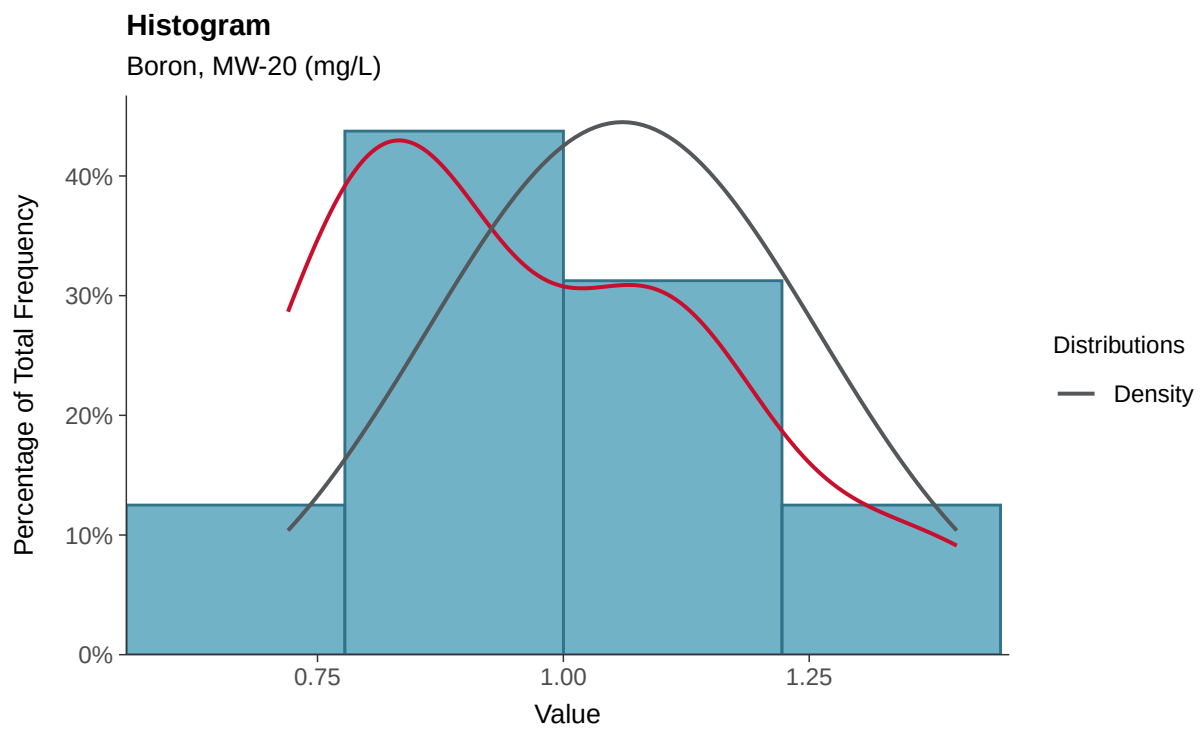
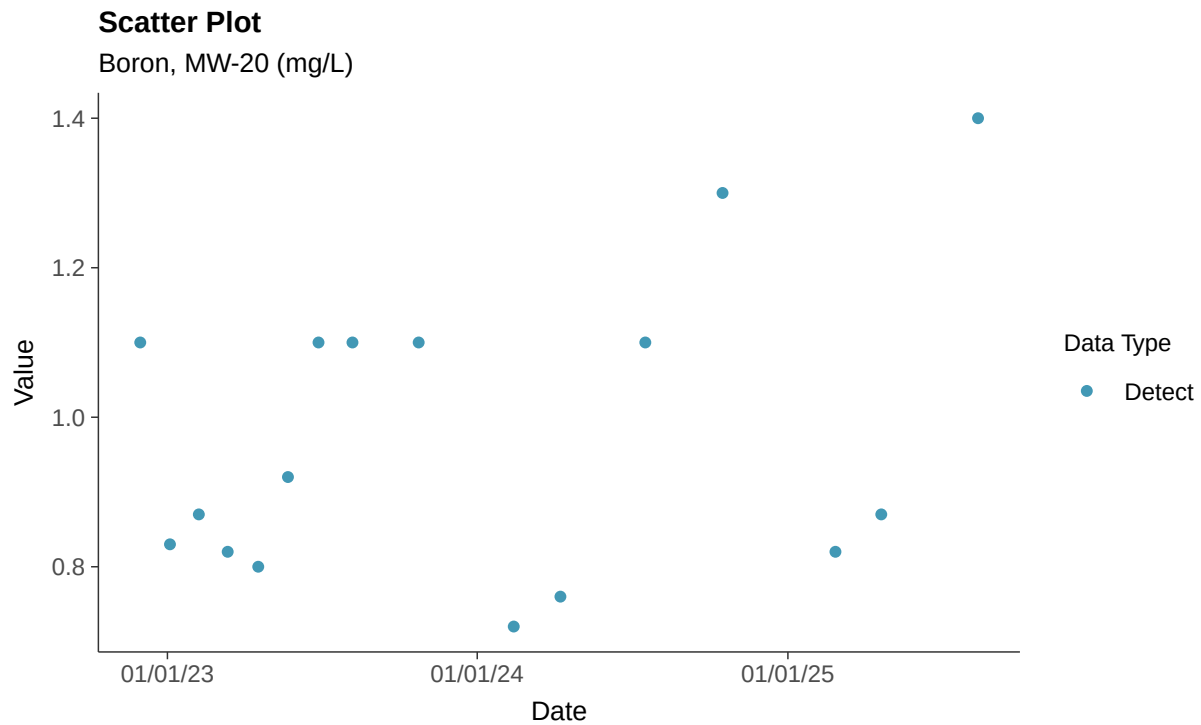
Zinc, MW-19 (mg/L)





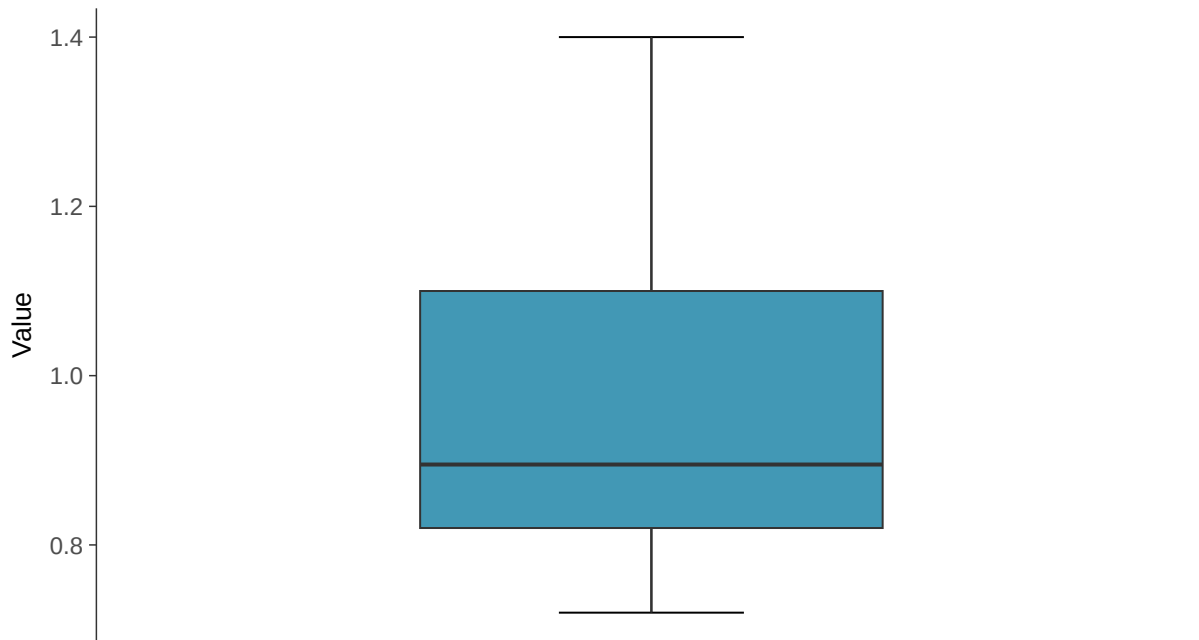
Appendix III: Boron, MW-20

ID: 30_1_3_105



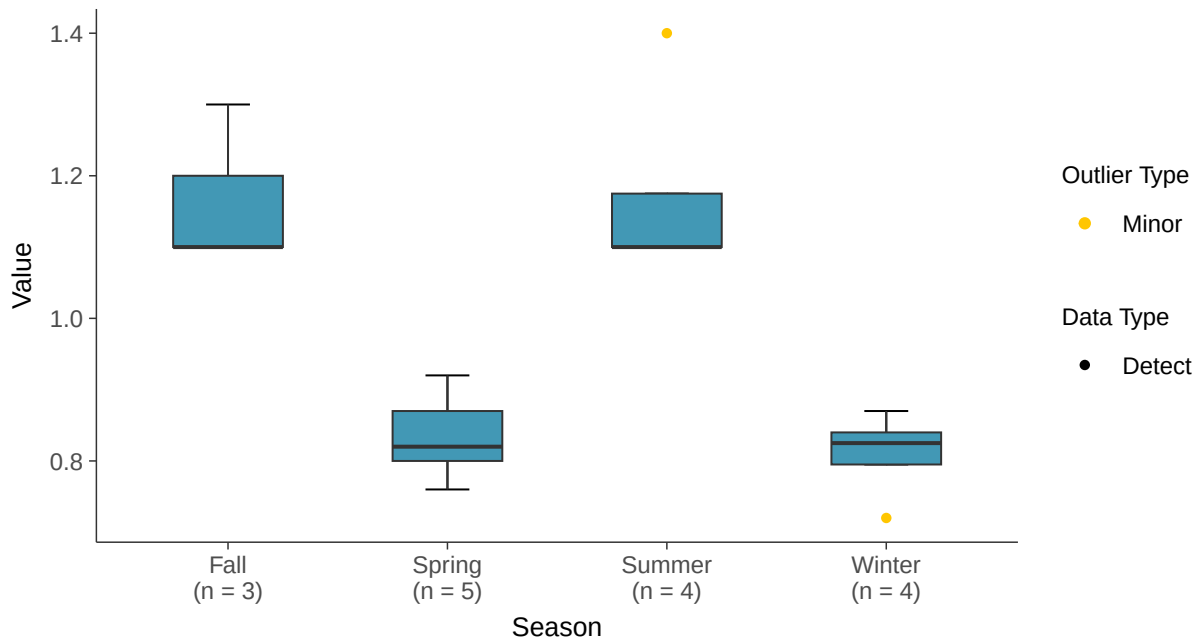
Boxplot

Boron, MW-20 (mg/L)

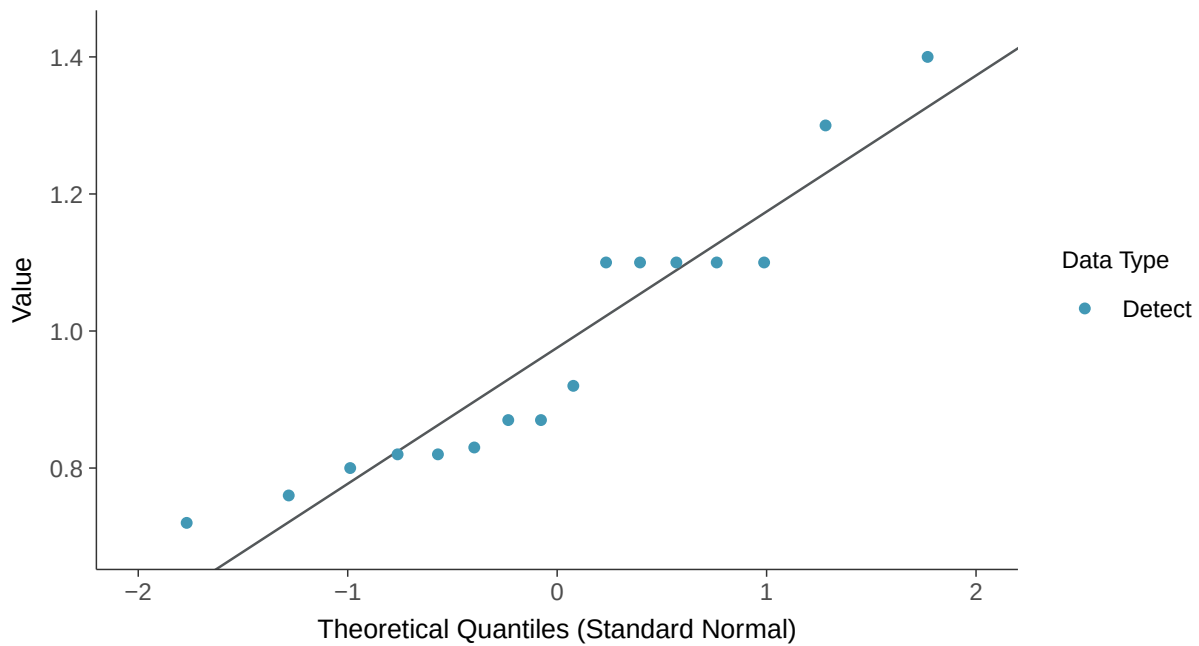


Boxplot by Season

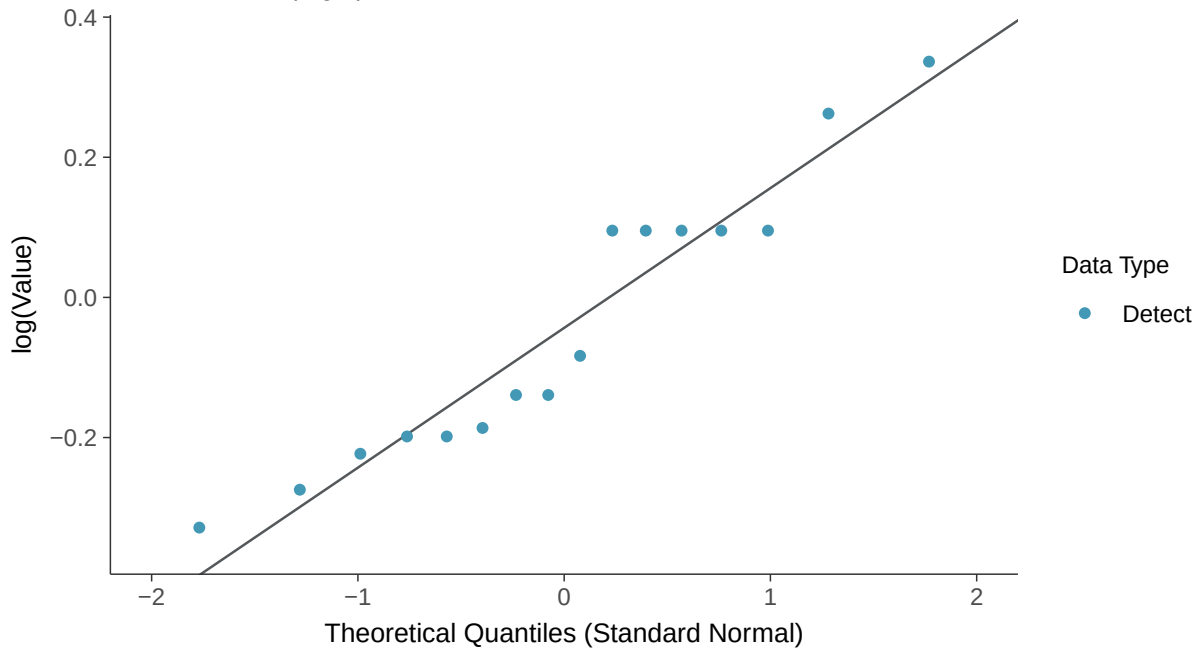
Boron, MW-20 (mg/L)

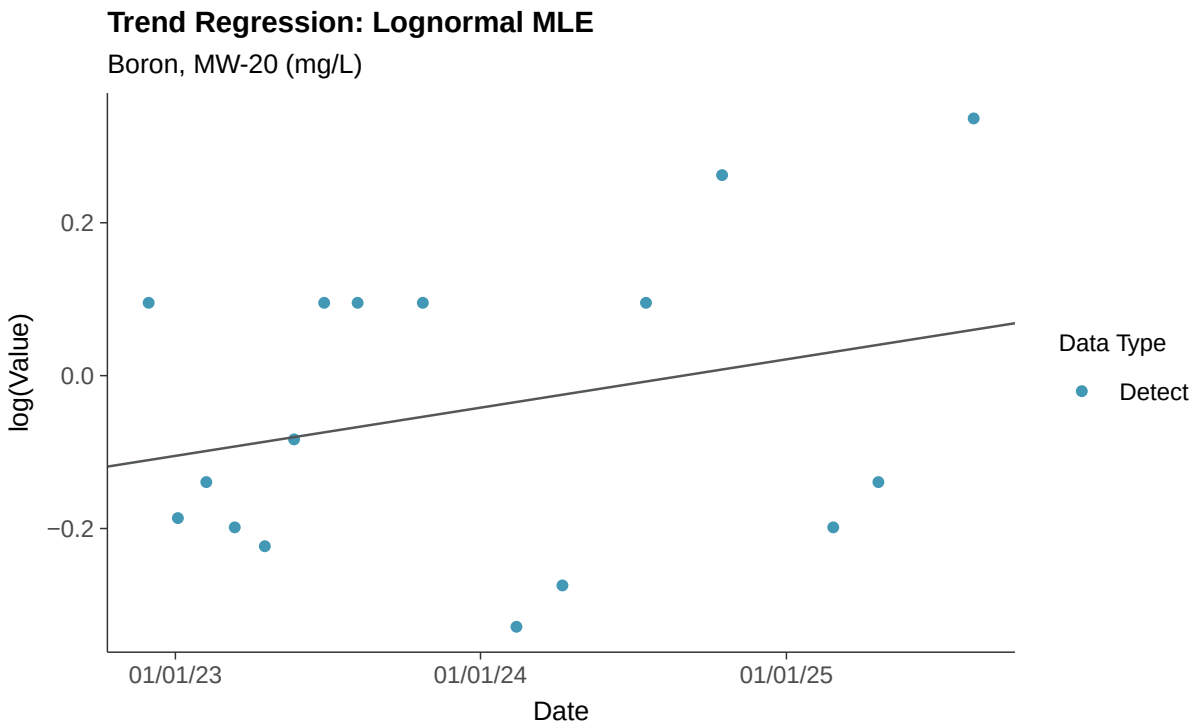
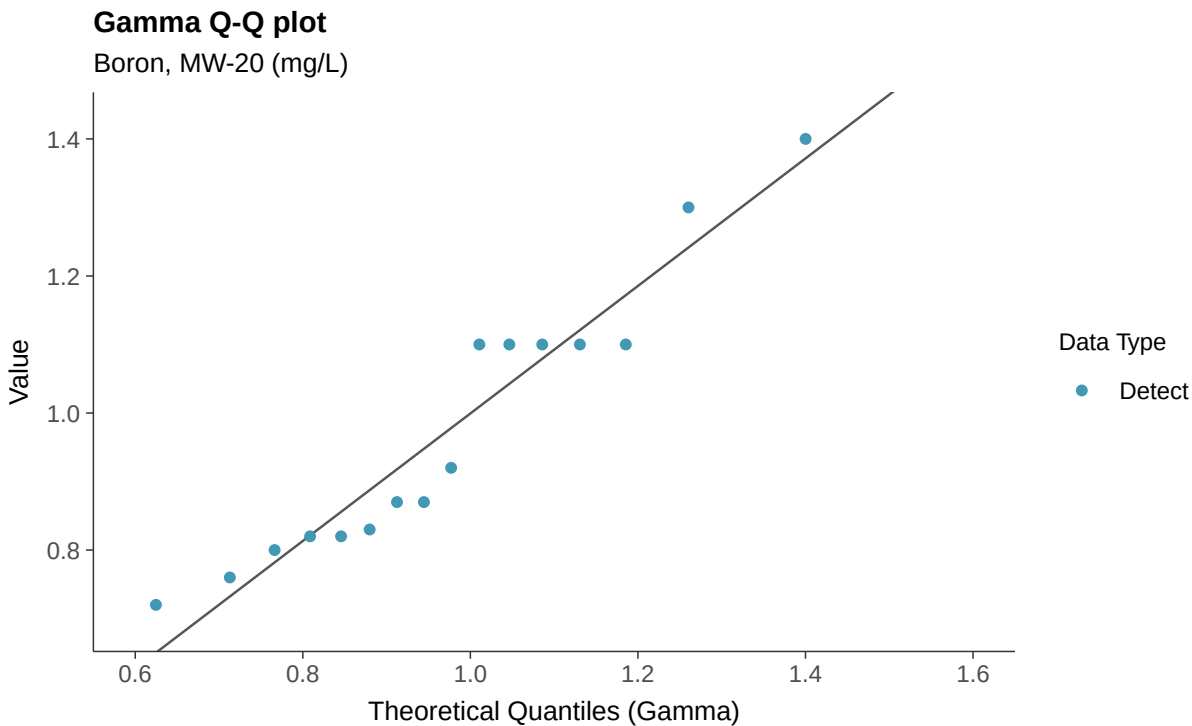


Normal Q-Q plot
Boron, MW-20 (mg/L)



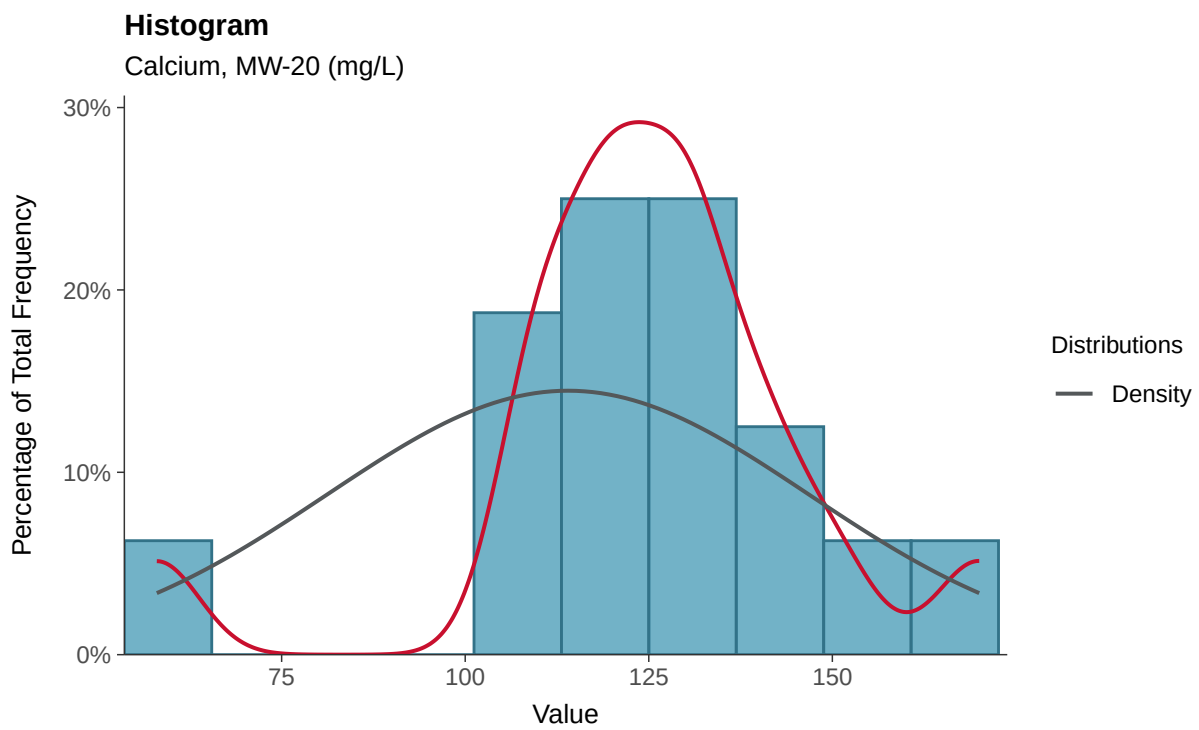
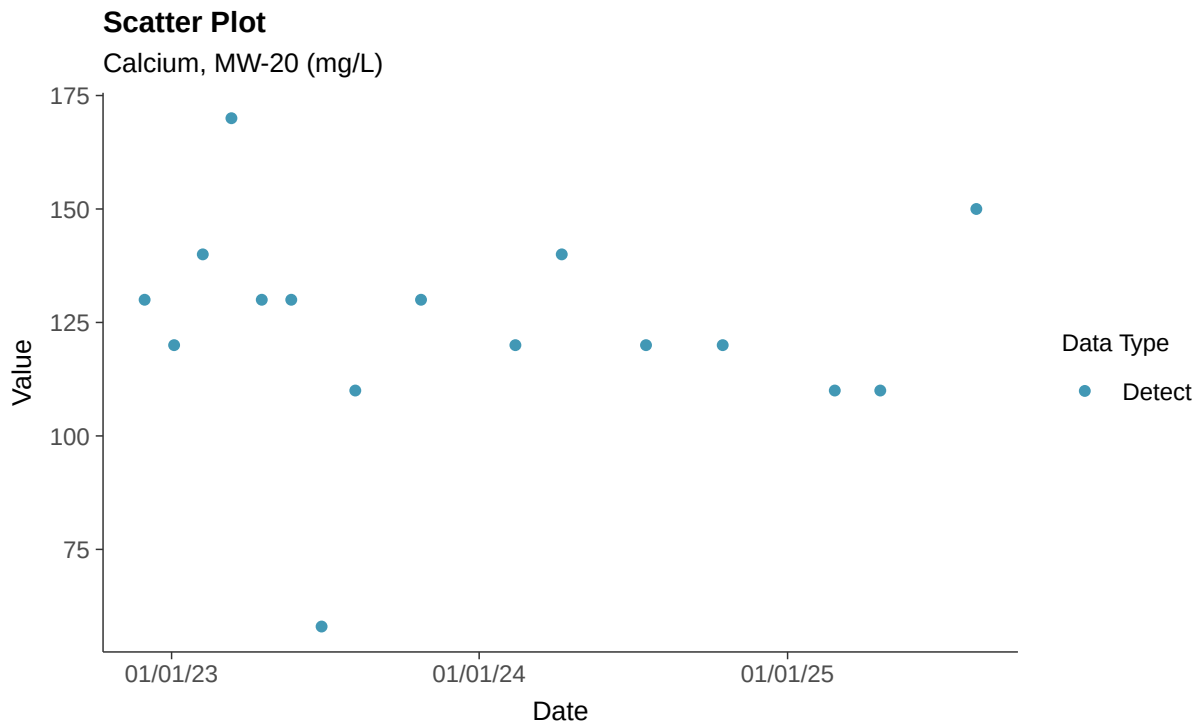
Lognormal Q-Q plot
Boron, MW-20 (mg/L)

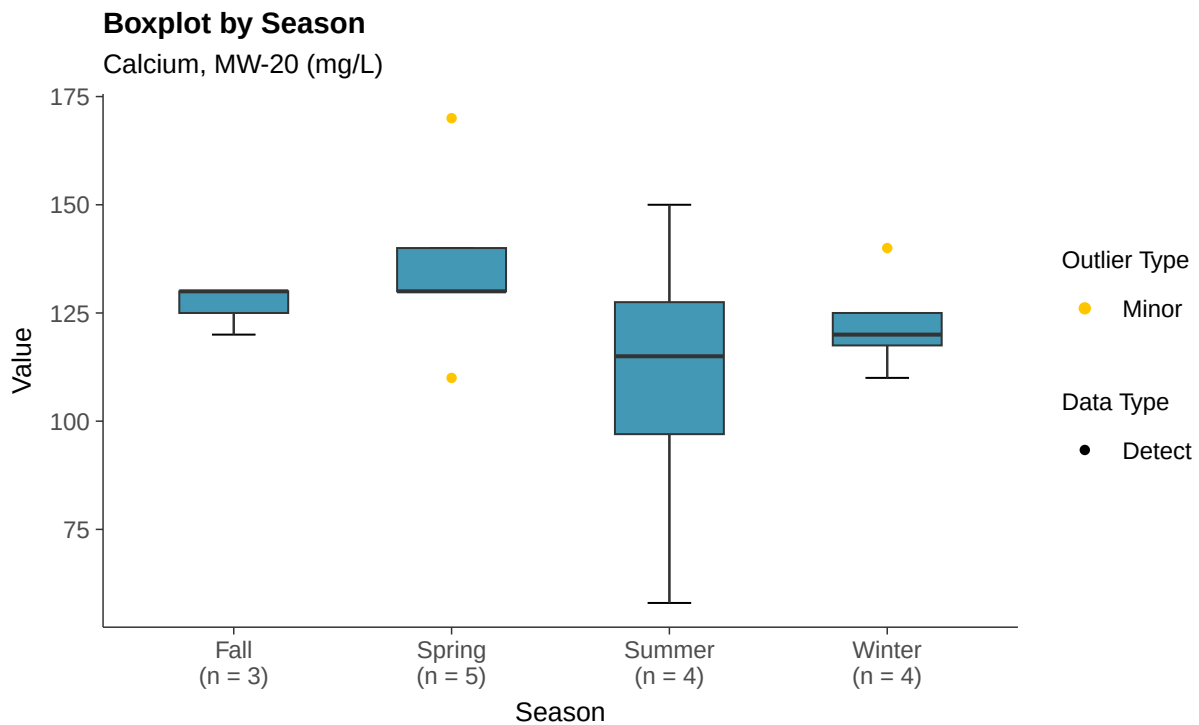
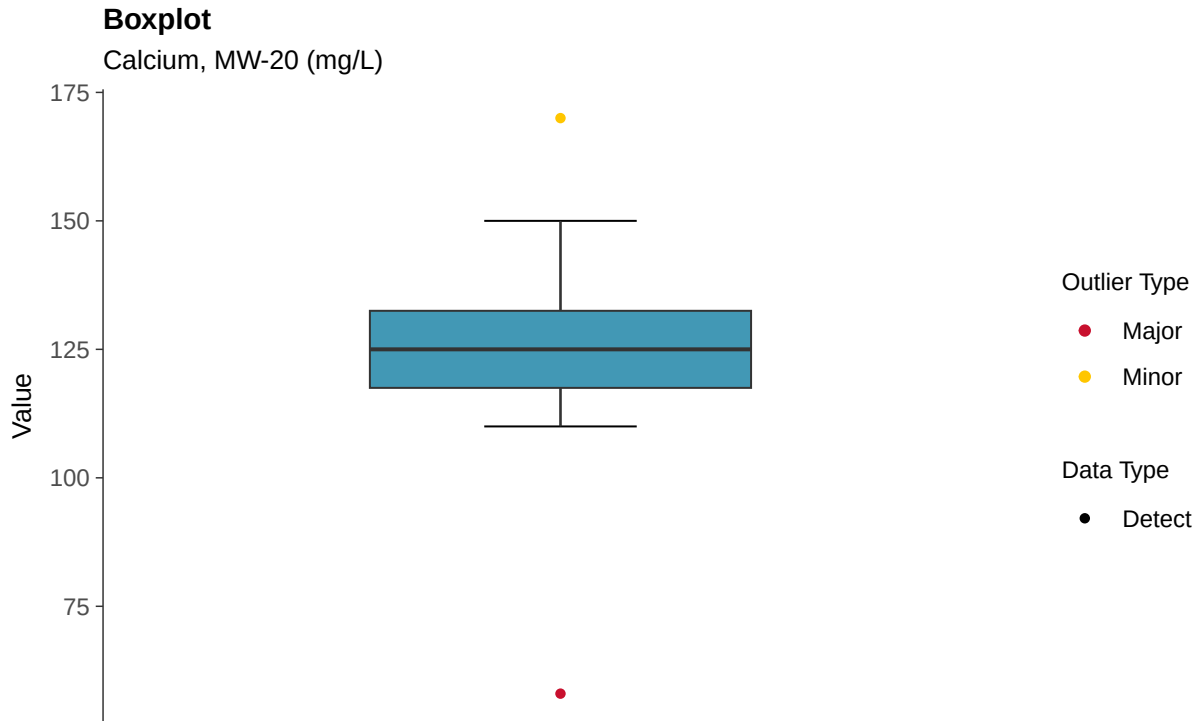




Appendix III: Calcium, MW-20

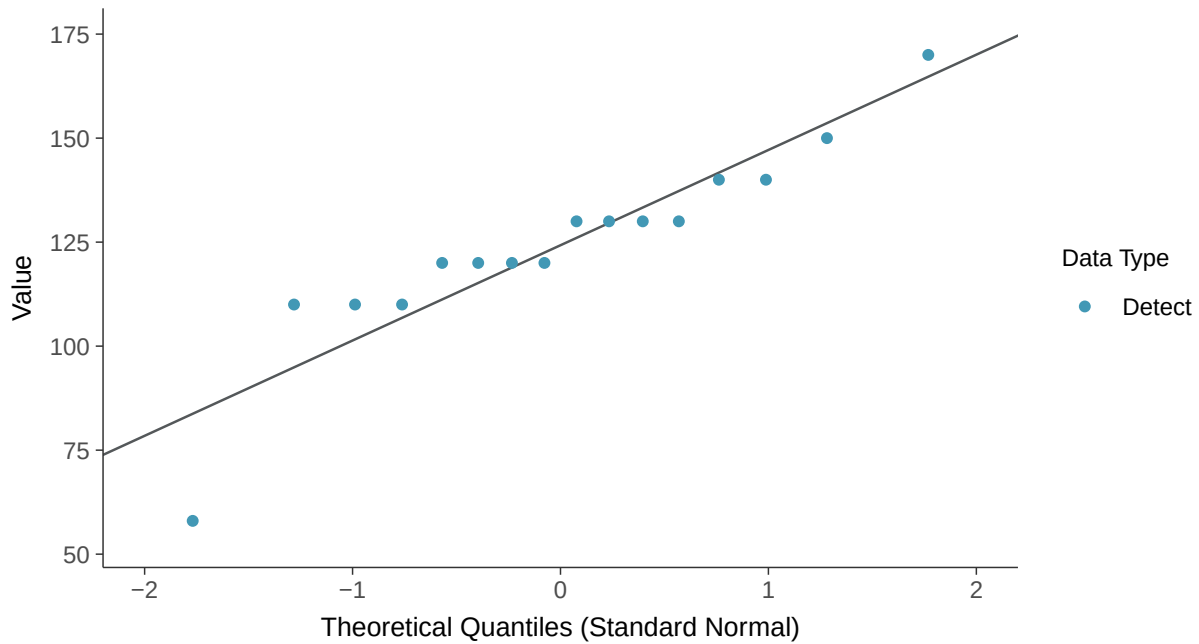
ID: 30_1_3_107





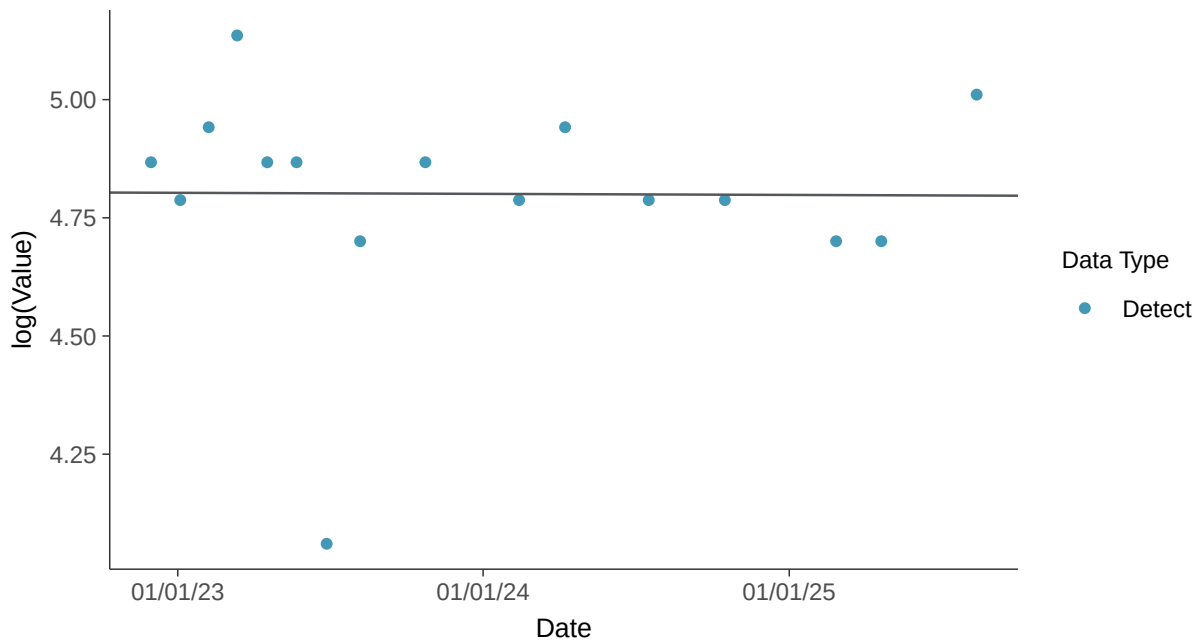
Normal Q-Q plot

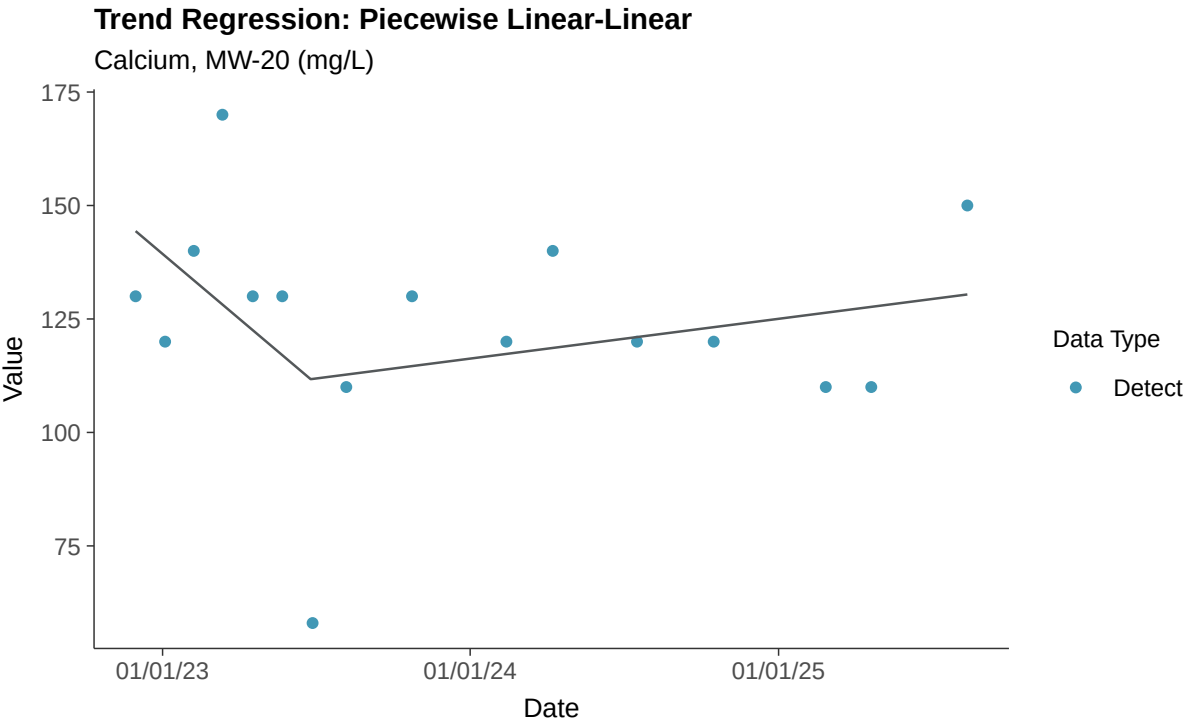
Calcium, MW-20 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-20 (mg/L)



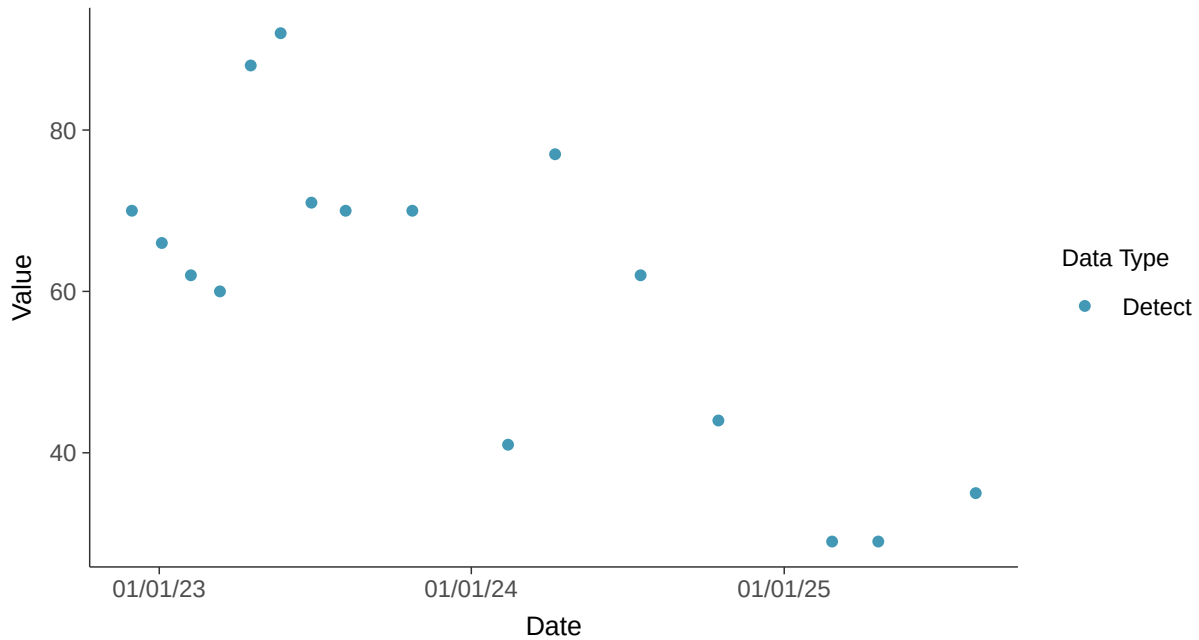


Appendix III: Chloride (as Cl), MW-20

ID: 30_1_3_108

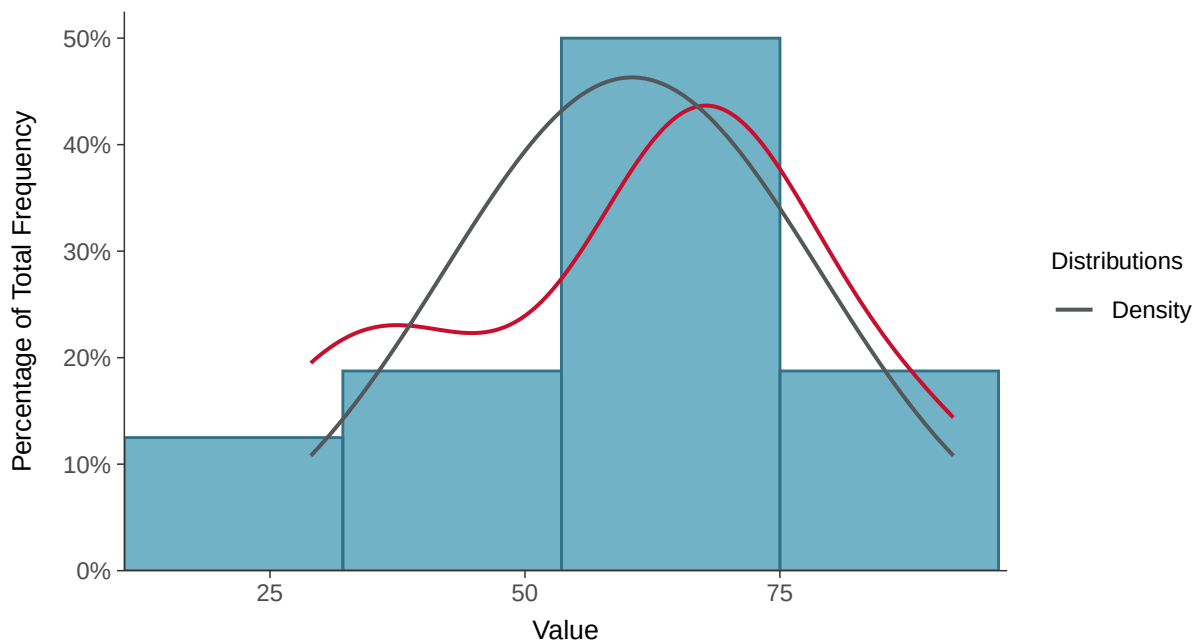
Scatter Plot

Chloride (as Cl), MW-20 (mg/L)



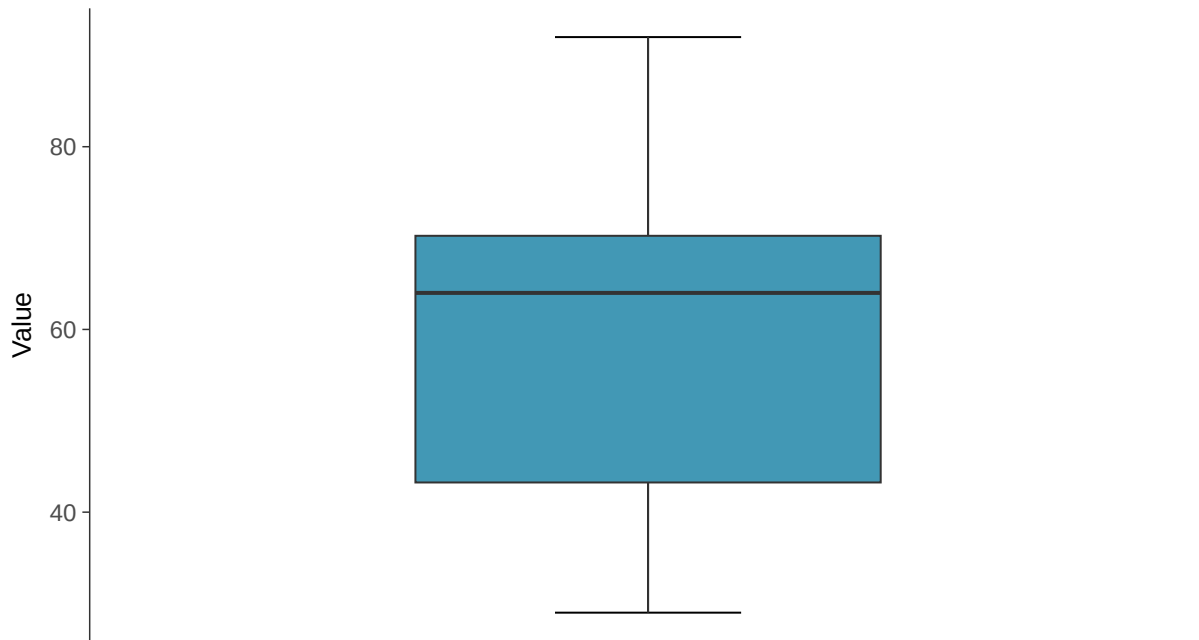
Histogram

Chloride (as Cl), MW-20 (mg/L)



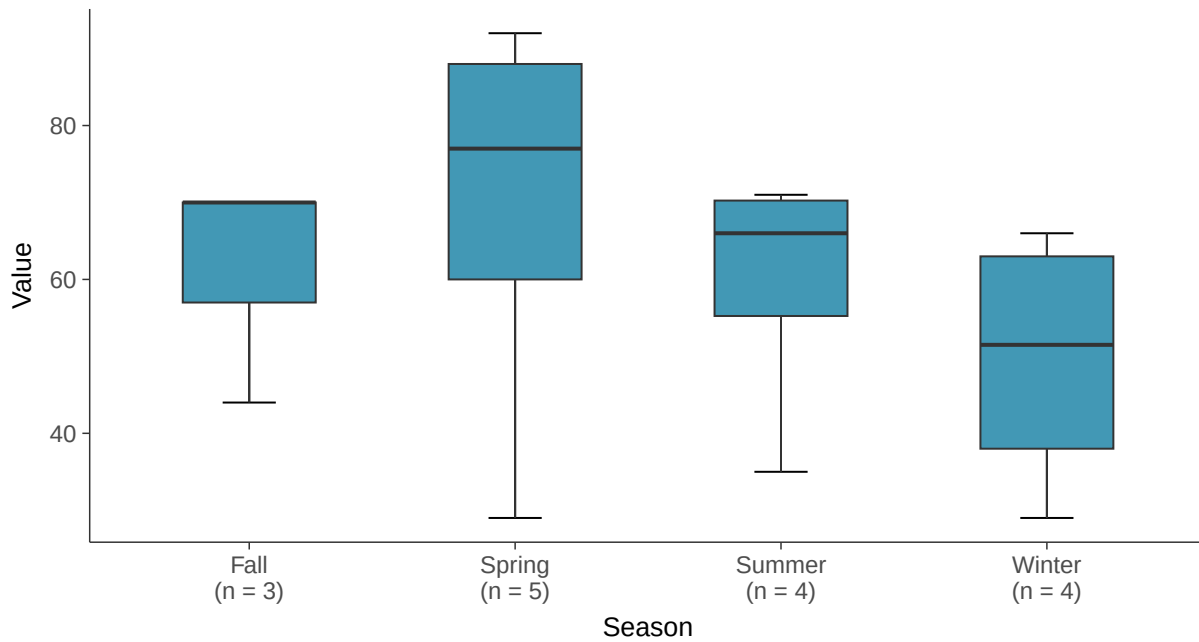
Boxplot

Chloride (as Cl), MW-20 (mg/L)



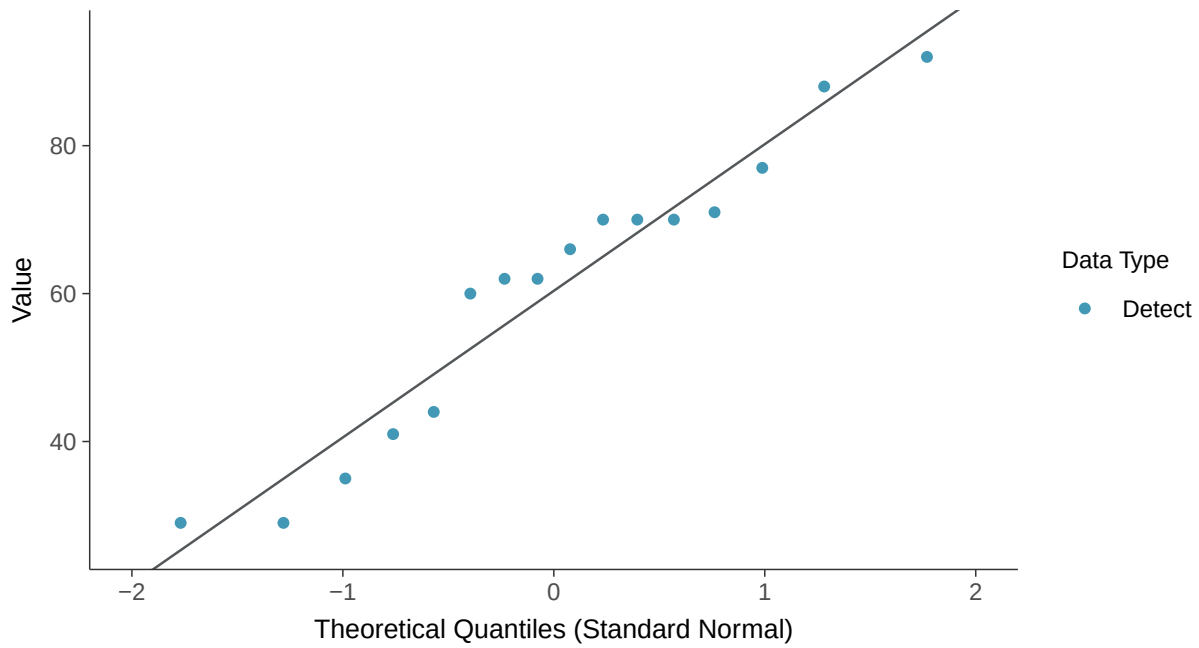
Boxplot by Season

Chloride (as Cl), MW-20 (mg/L)



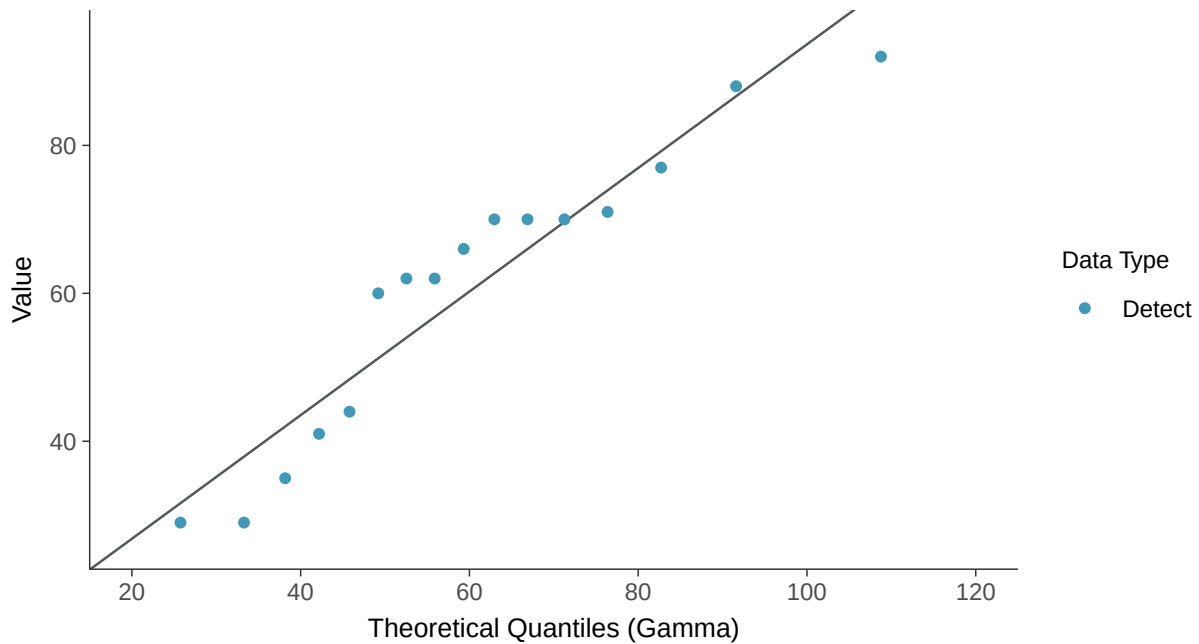
Normal Q-Q plot

Chloride (as Cl), MW-20 (mg/L)



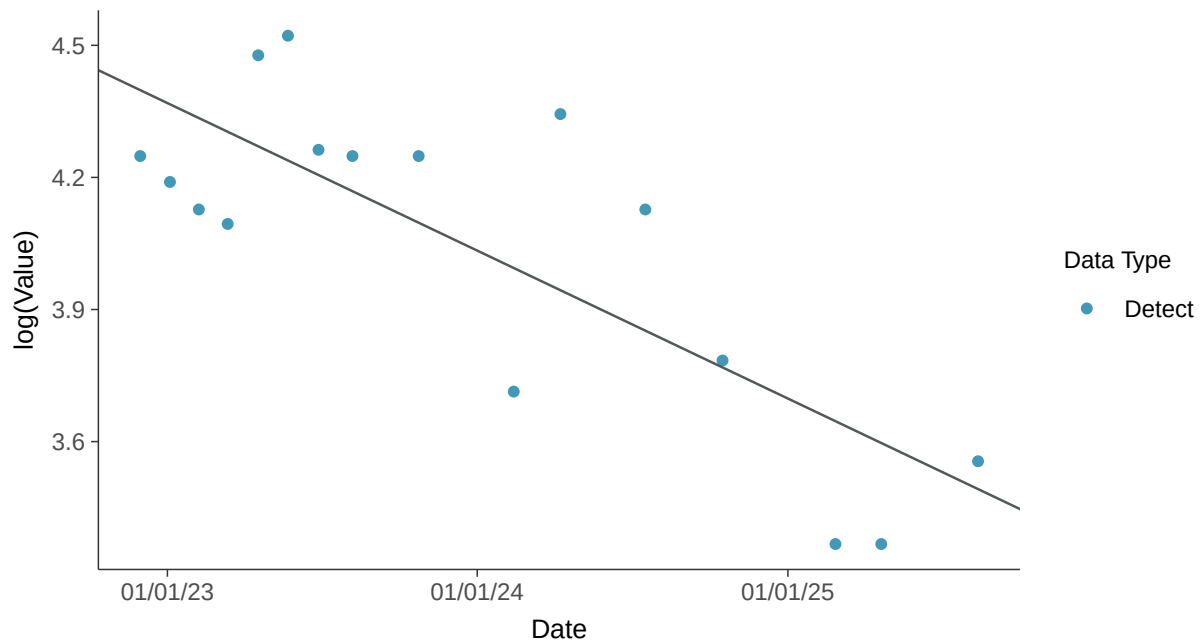
Gamma Q-Q plot

Chloride (as Cl), MW-20 (mg/L)



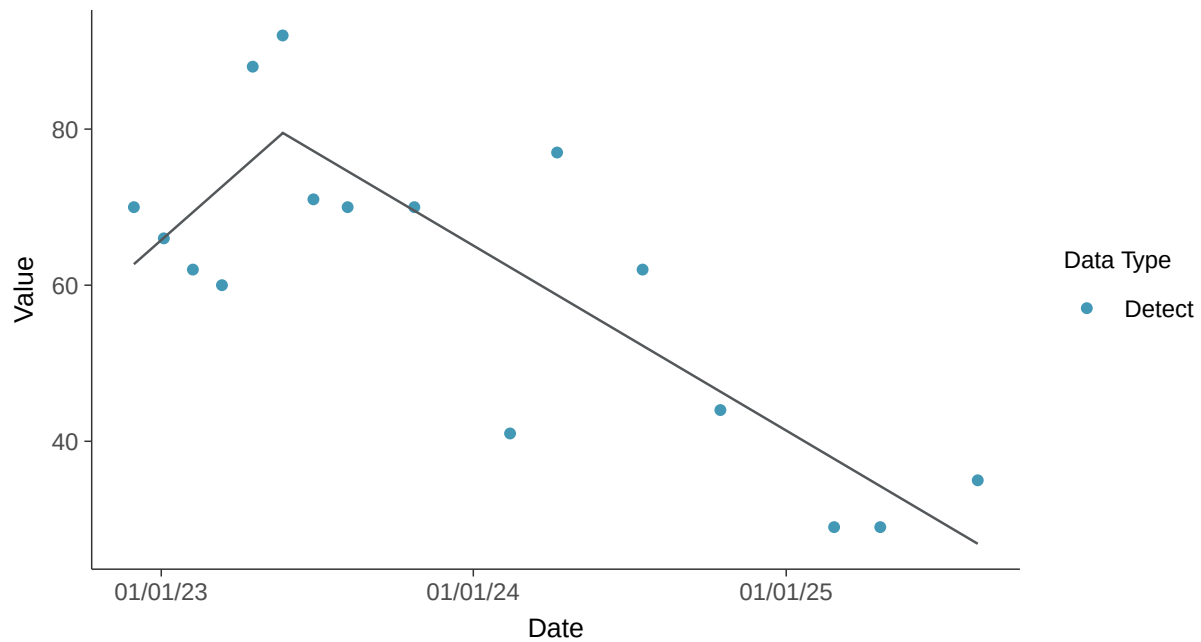
Trend Regression: Lognormal MLE

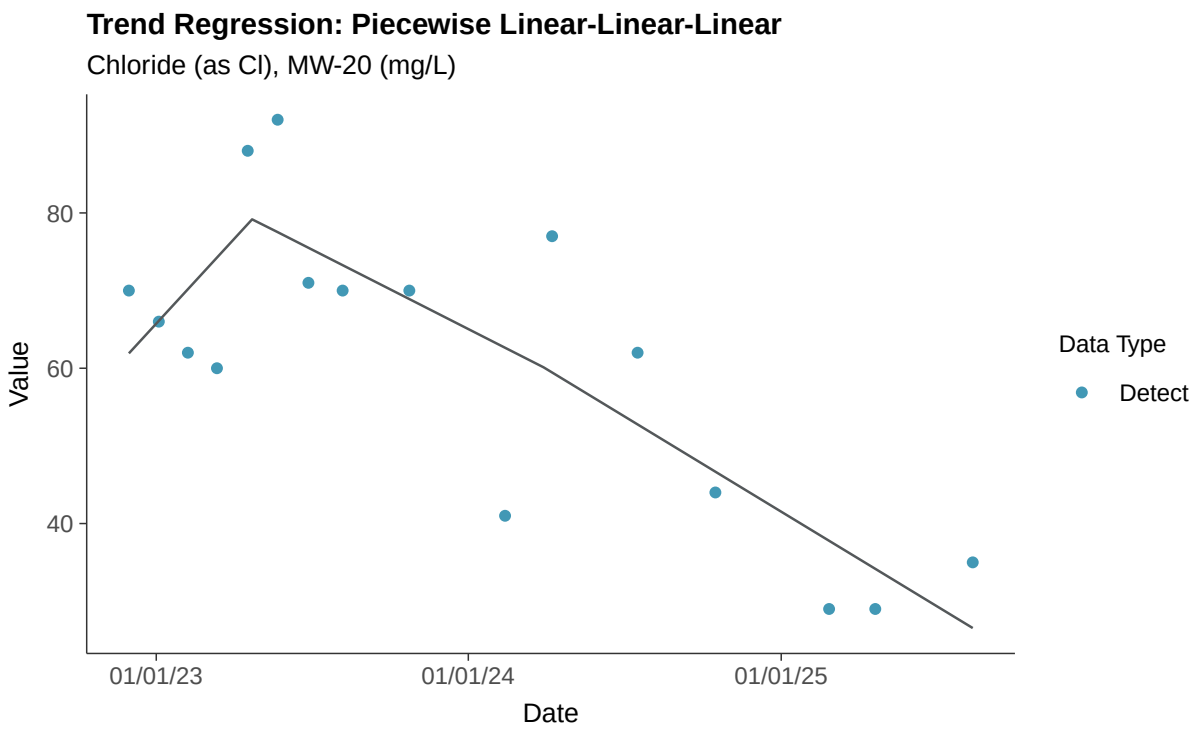
Chloride (as Cl), MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear

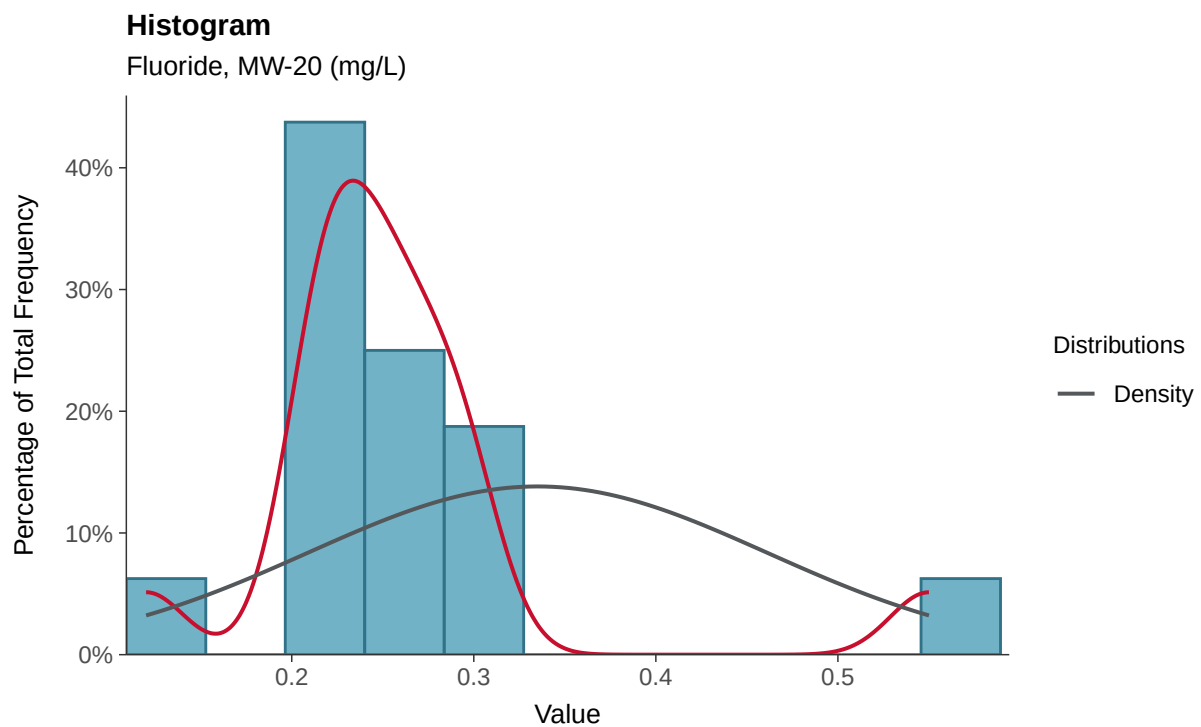
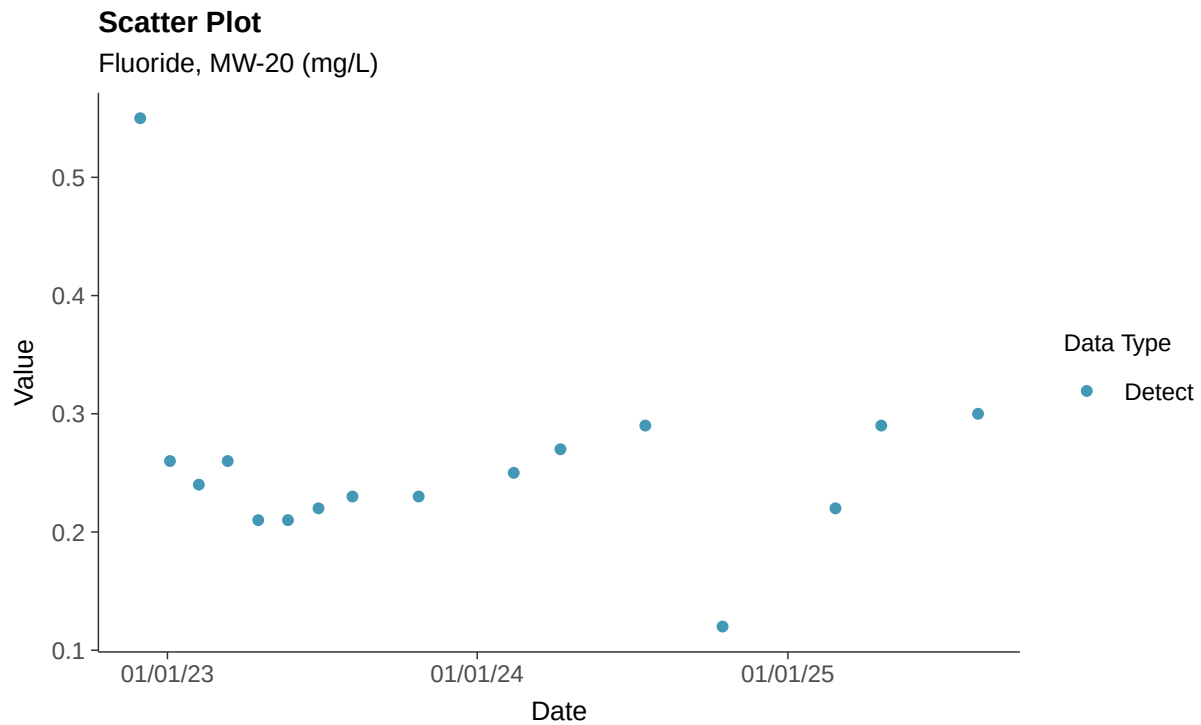
Chloride (as Cl), MW-20 (mg/L)





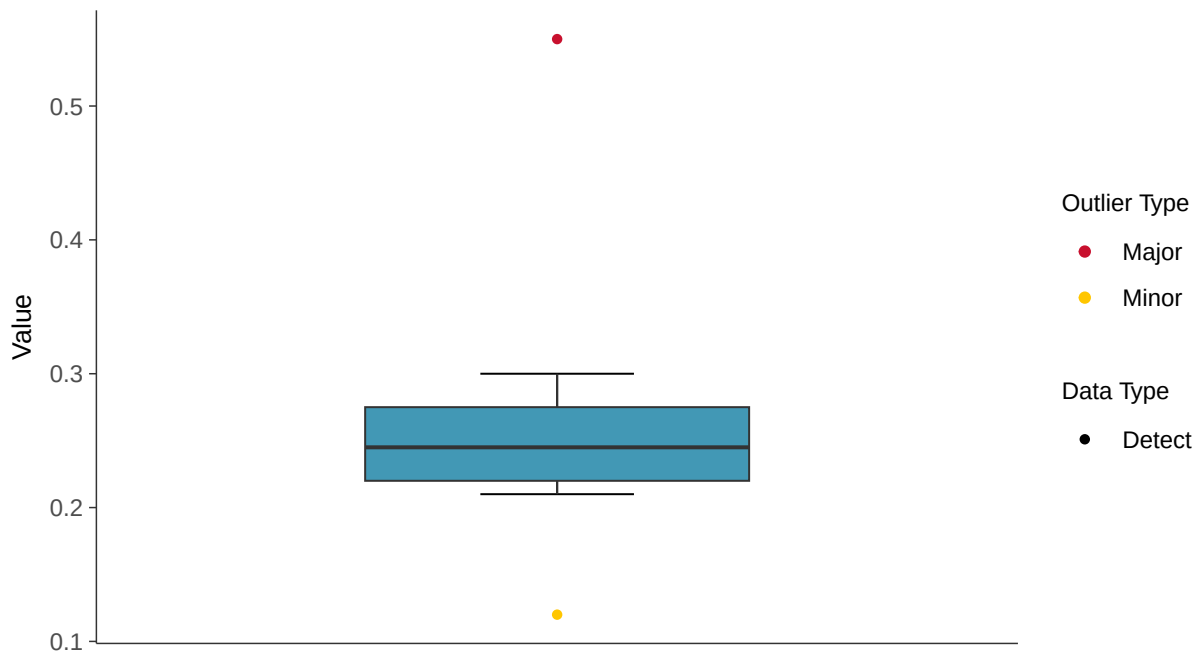
Appendix III: Fluoride, MW-20

ID: 30_1_3_112



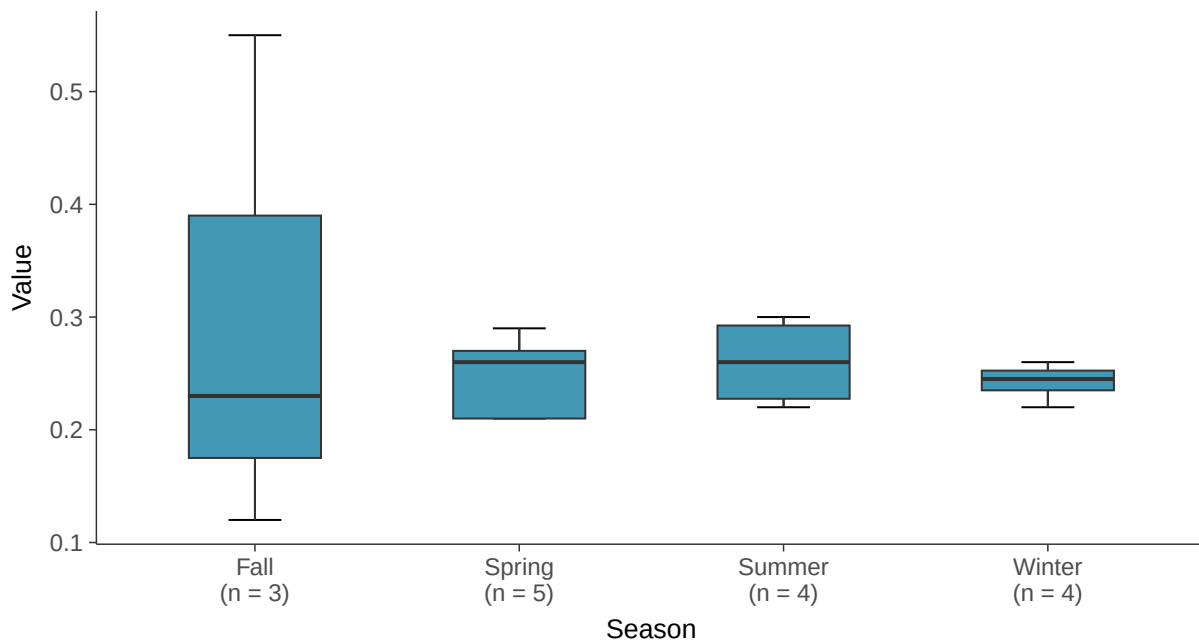
Boxplot

Fluoride, MW-20 (mg/L)



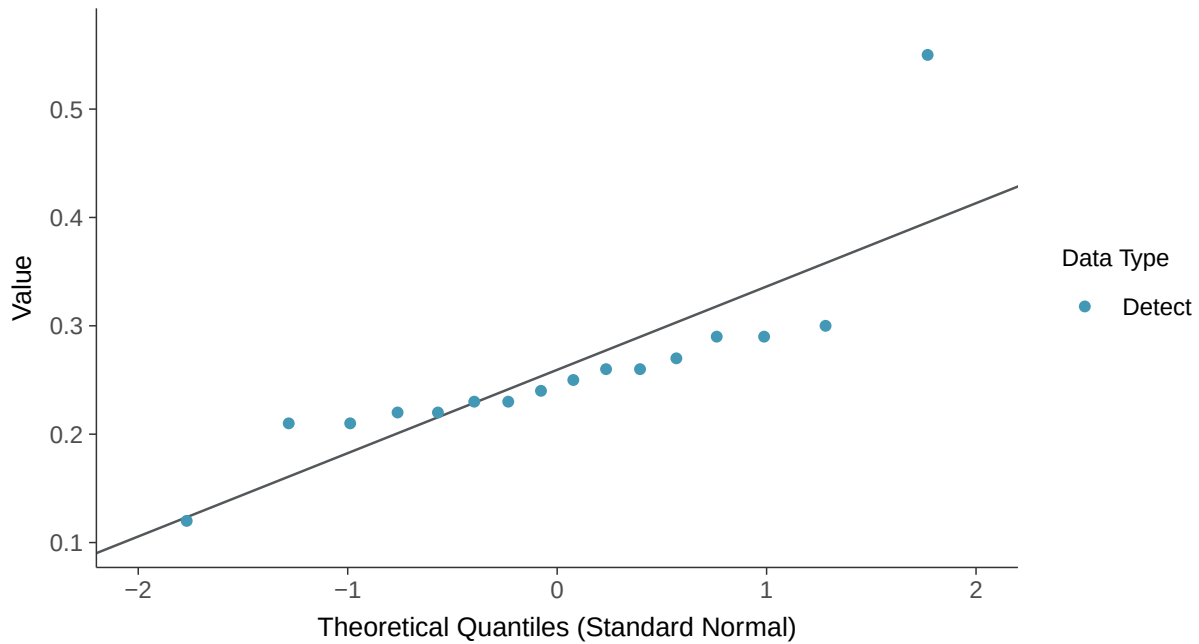
Boxplot by Season

Fluoride, MW-20 (mg/L)



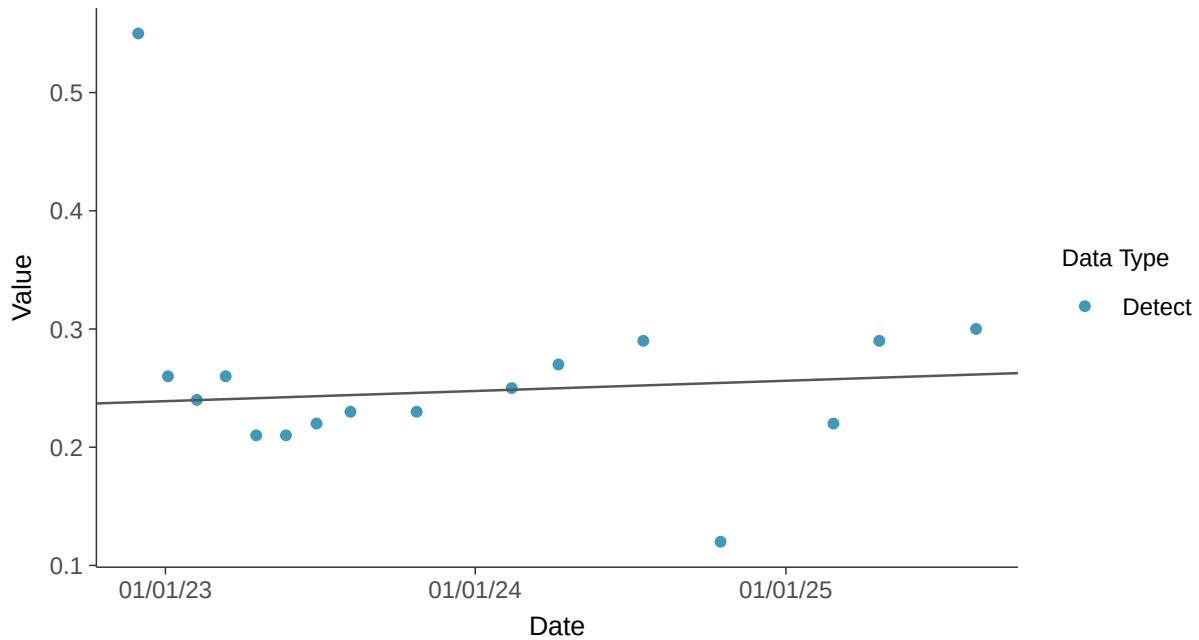
Normal Q-Q plot

Fluoride, MW-20 (mg/L)



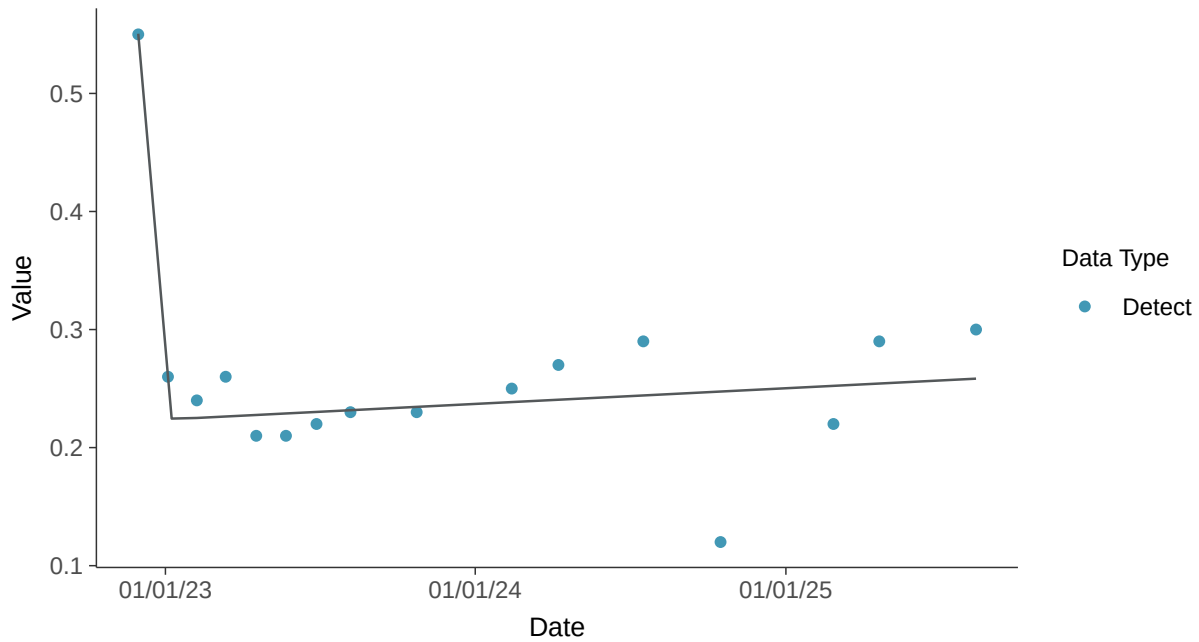
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride, MW-20 (mg/L)



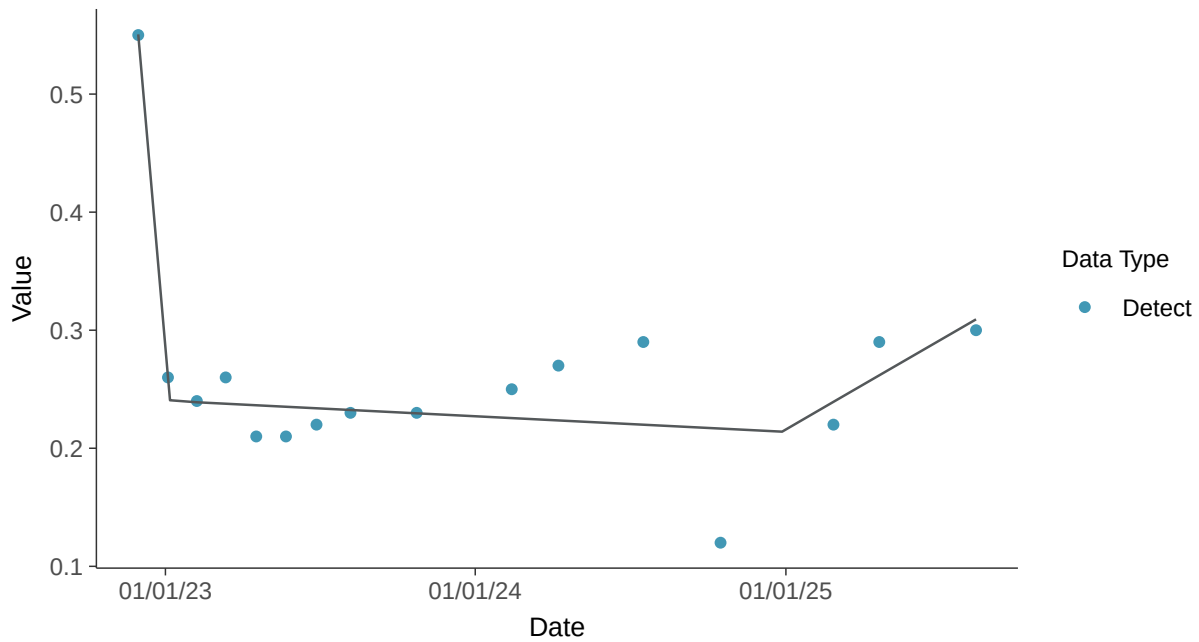
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-20 (mg/L)



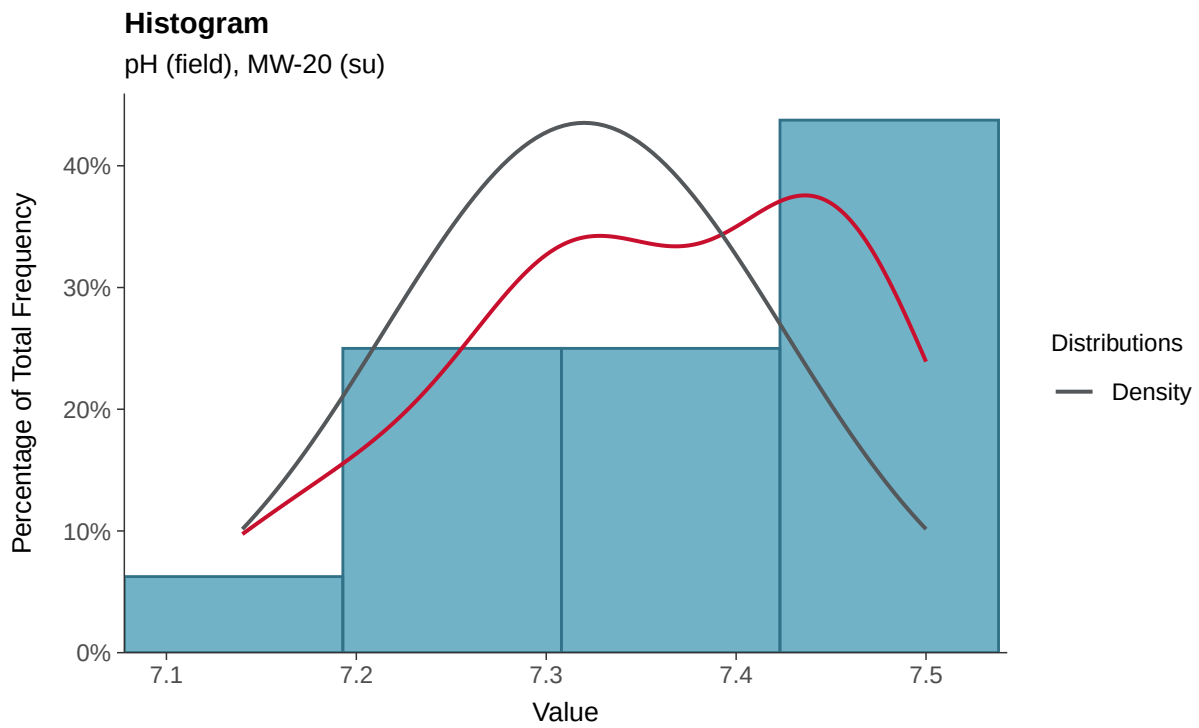
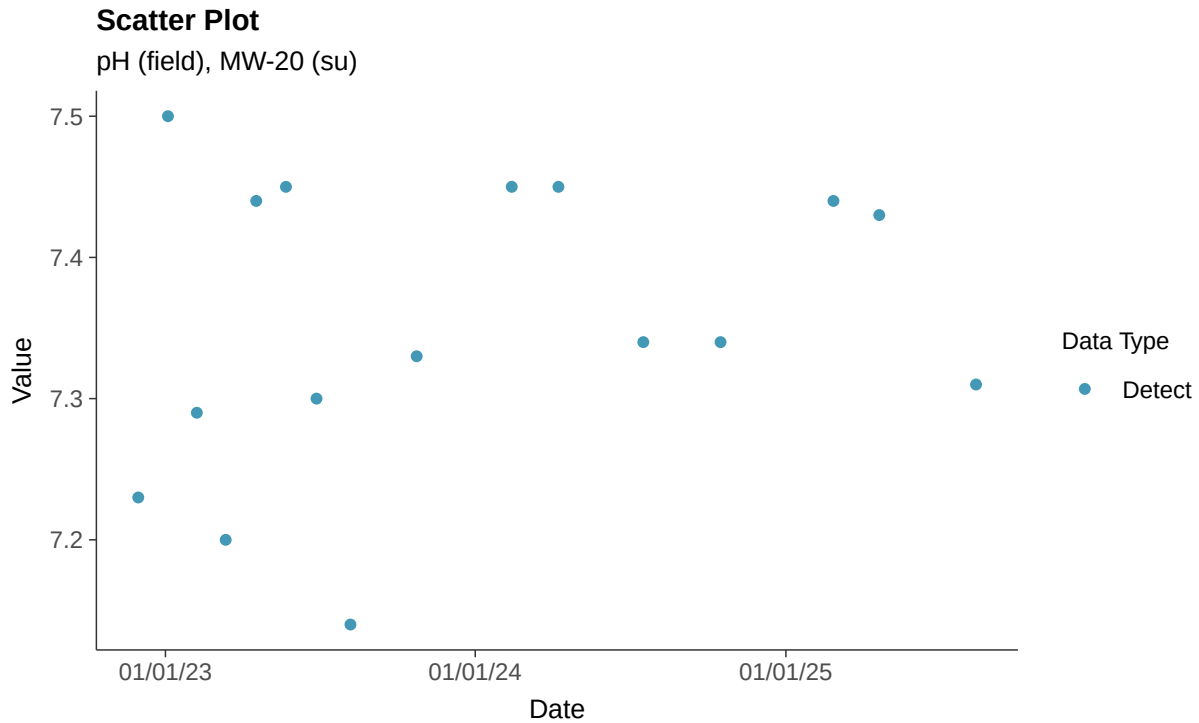
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-20 (mg/L)



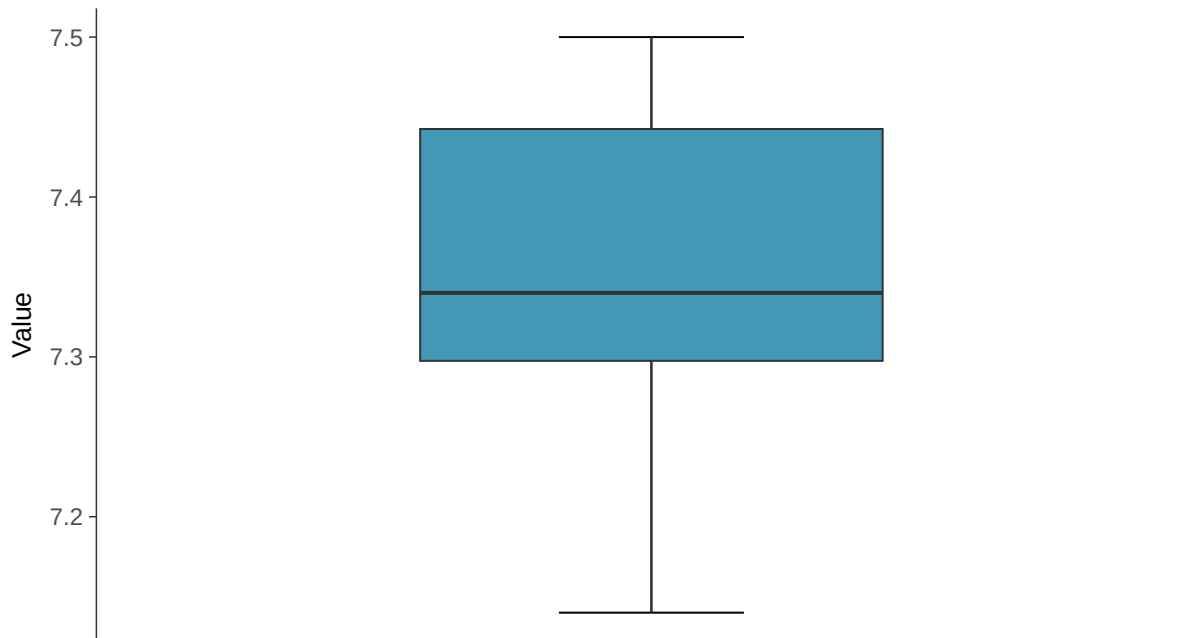
Appendix III: pH (field), MW-20

ID: 30_1_3_120



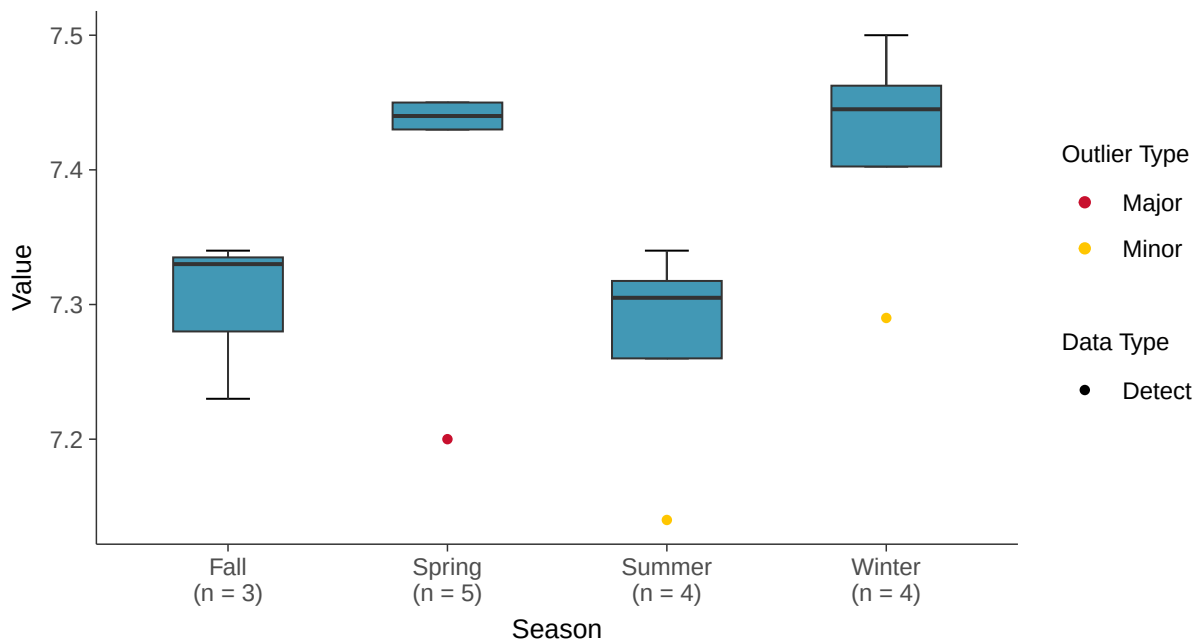
Boxplot

pH (field), MW-20 (su)

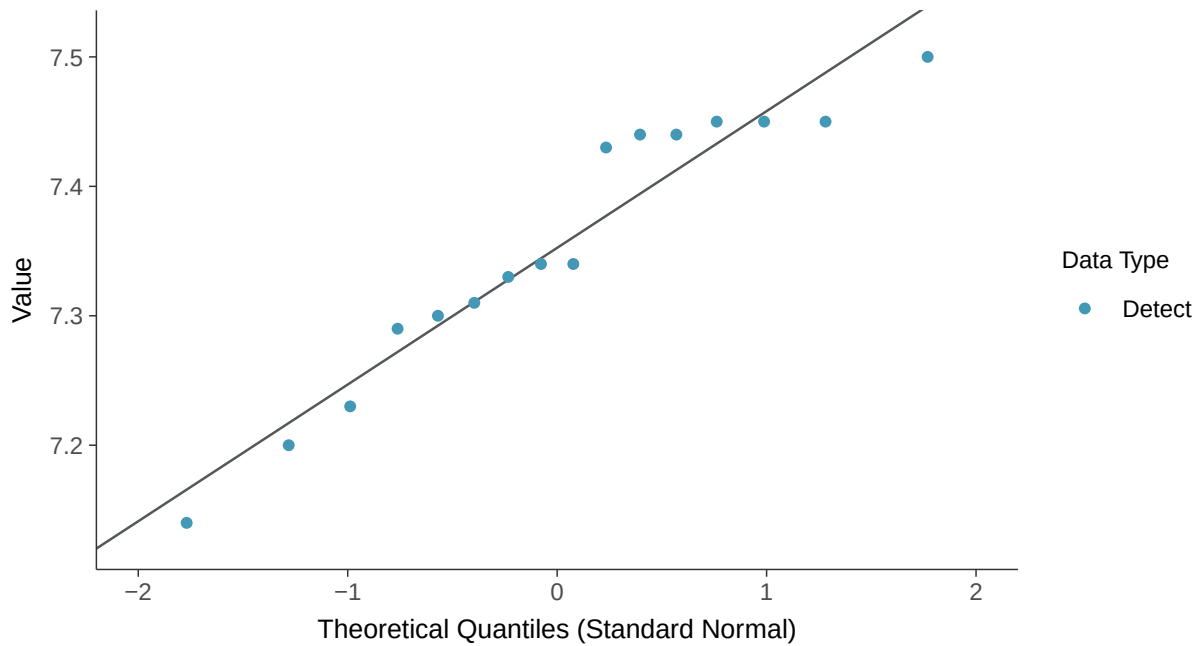


Boxplot by Season

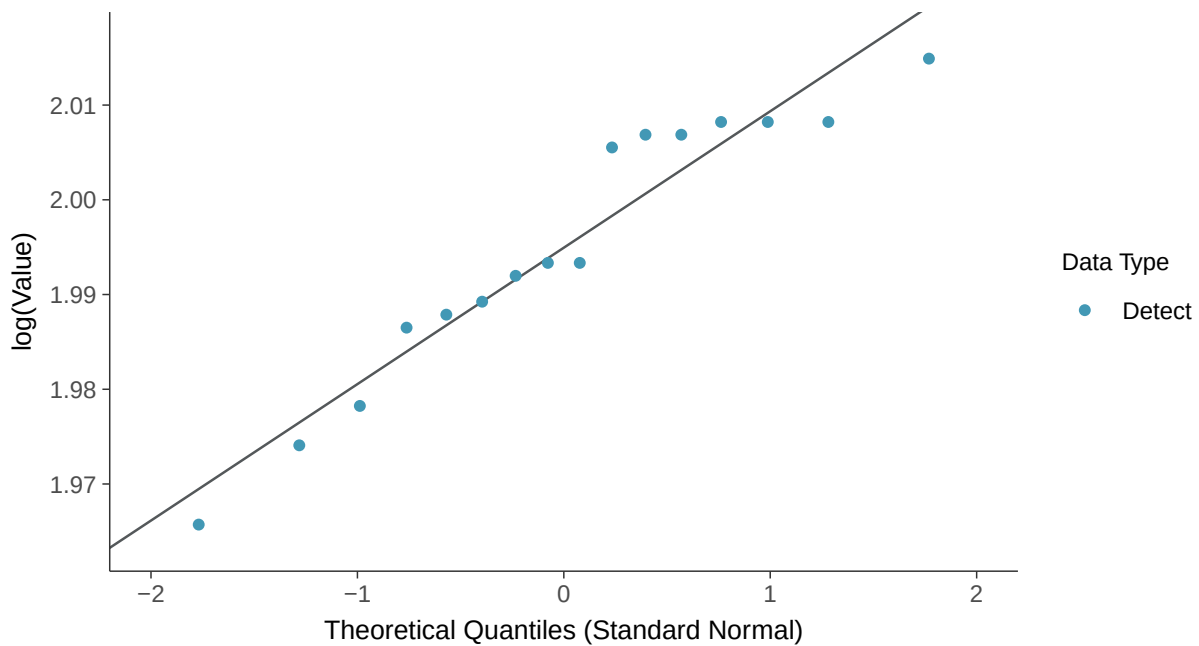
pH (field), MW-20 (su)

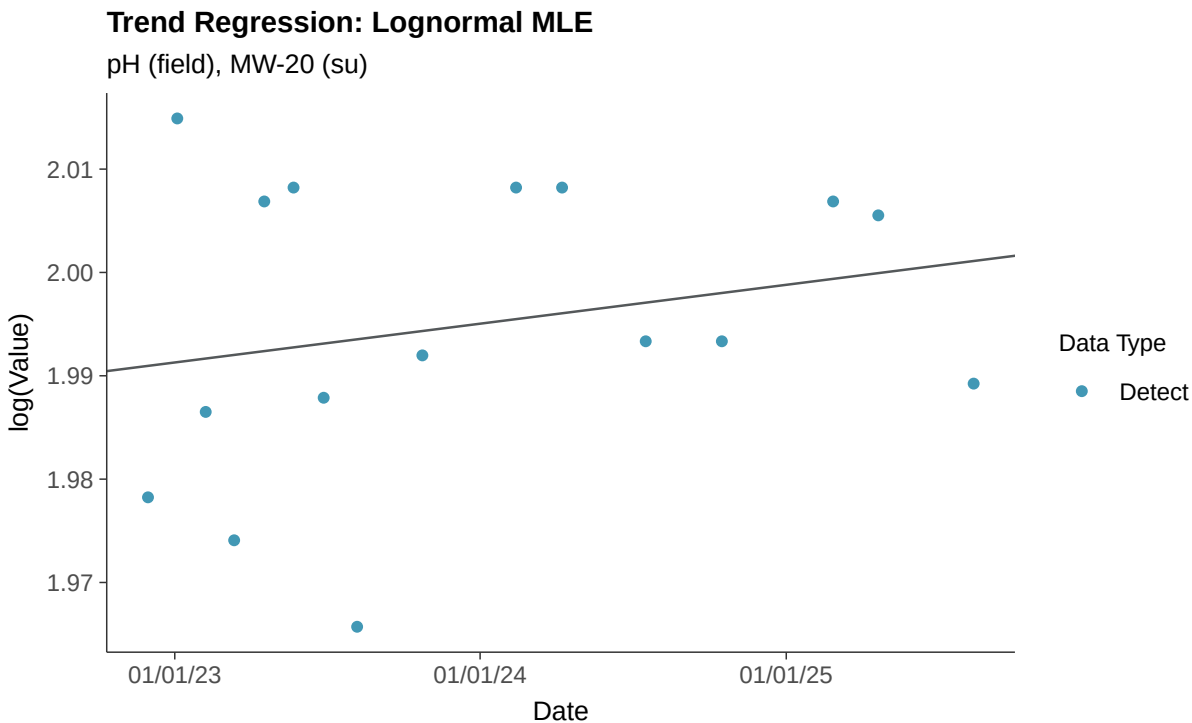
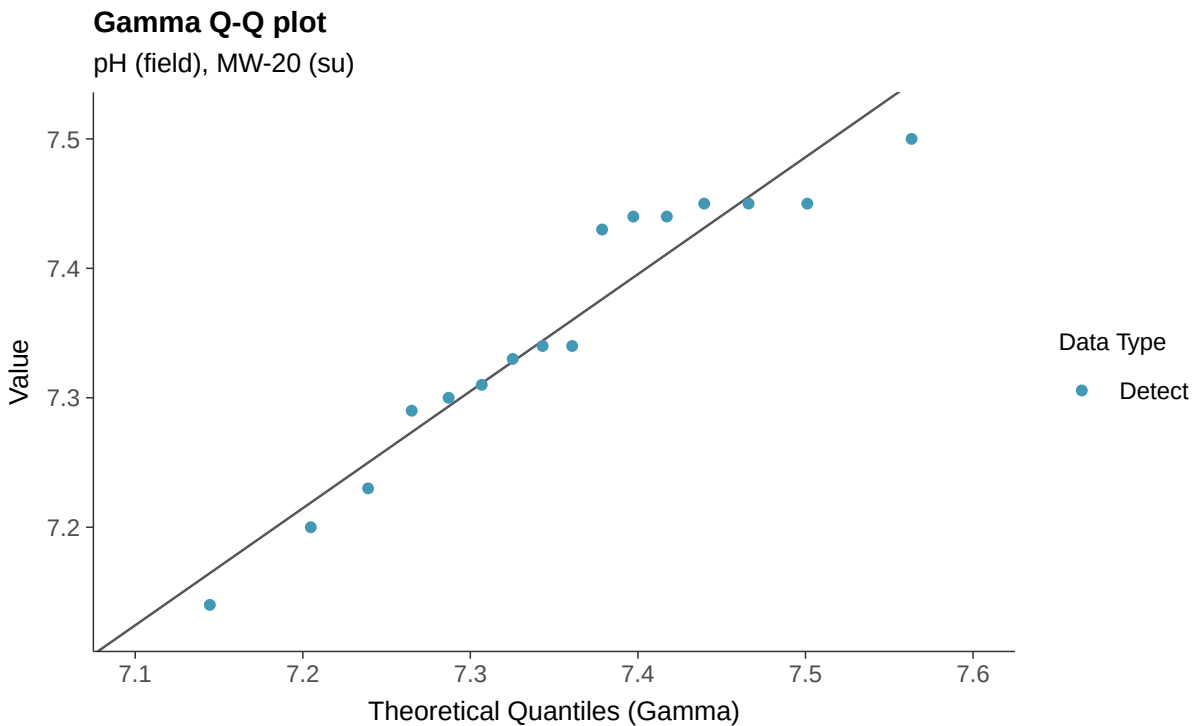


Normal Q-Q plot
pH (field), MW-20 (su)



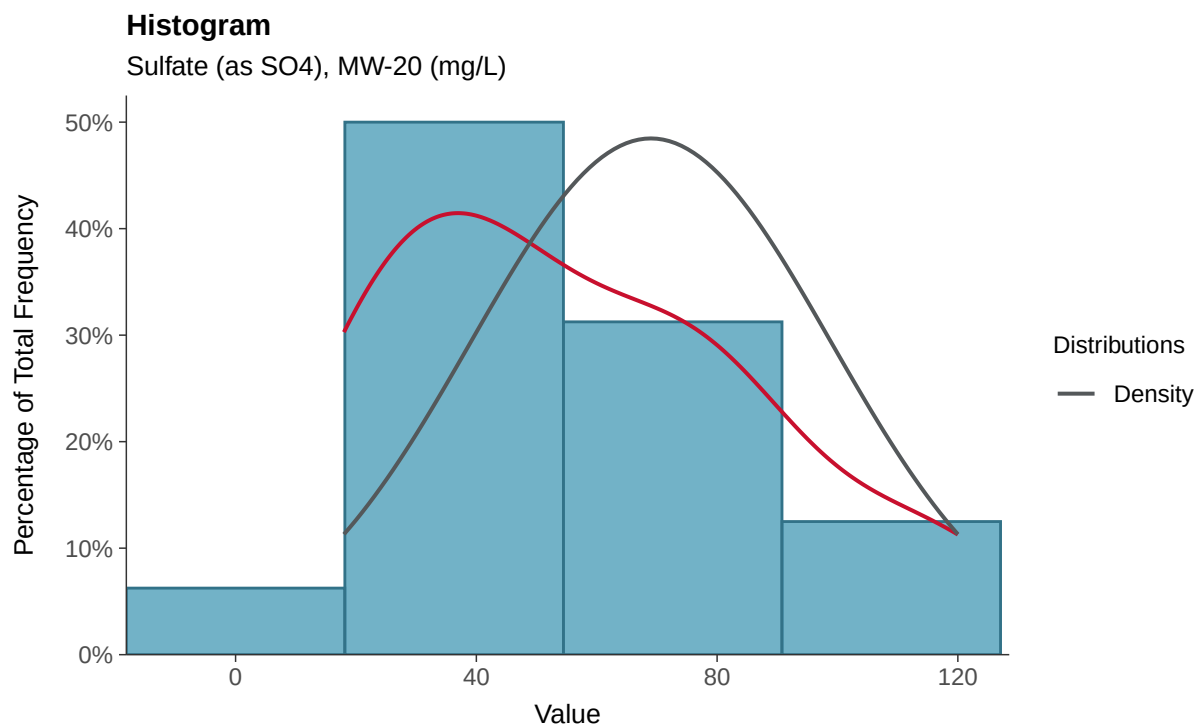
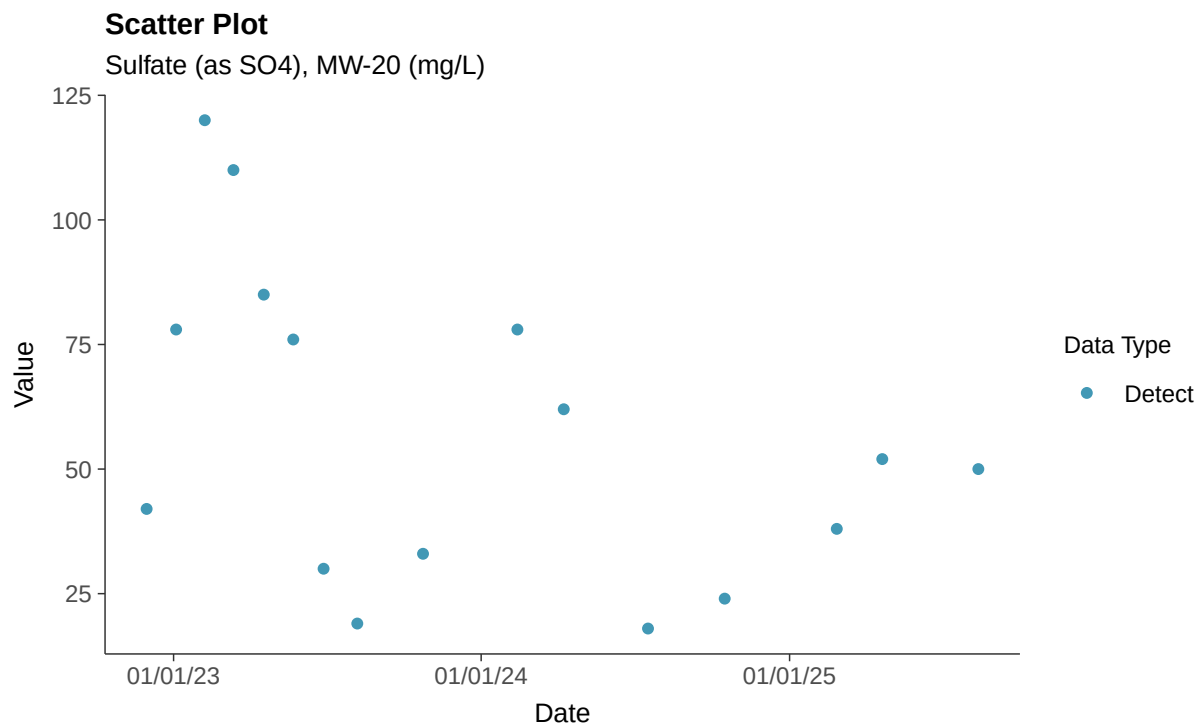
Lognormal Q-Q plot
pH (field), MW-20 (su)





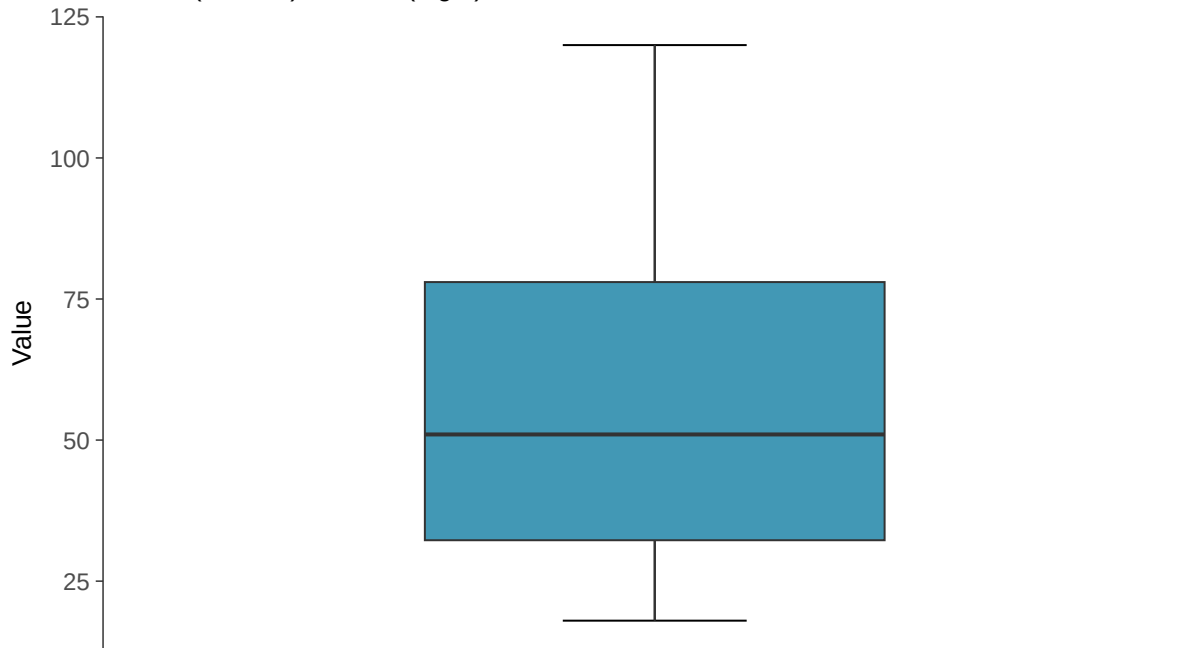
Appendix III: Sulfate (as SO₄), MW-20

ID: 30_1_3_124



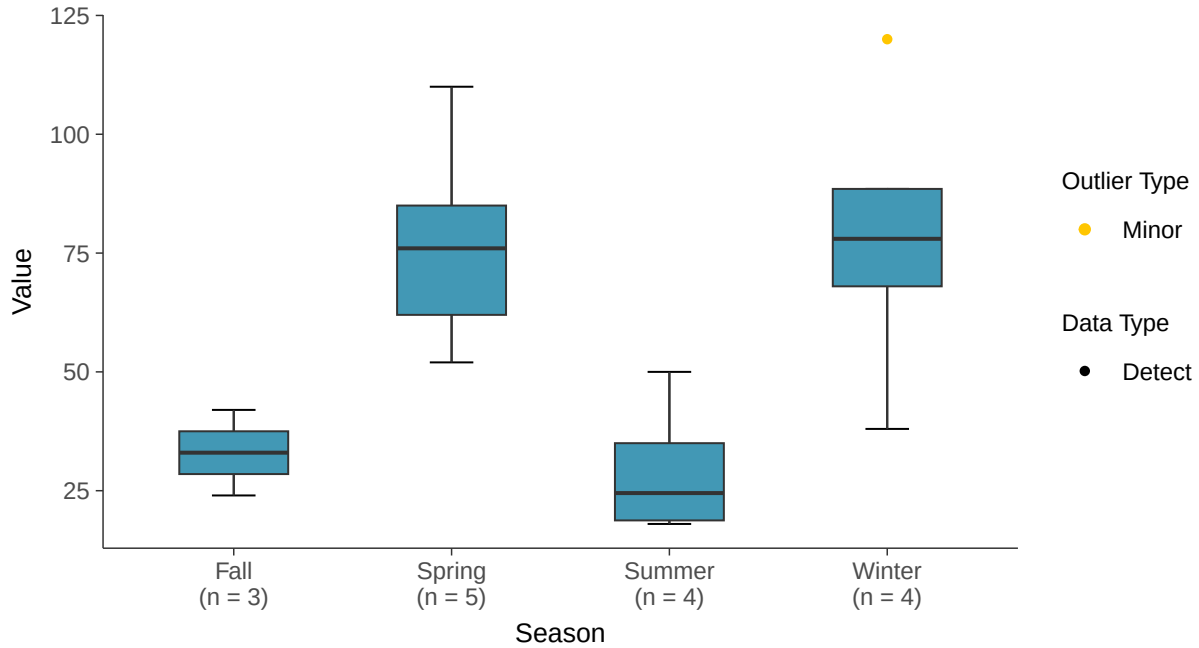
Boxplot

Sulfate (as SO₄), MW-20 (mg/L)



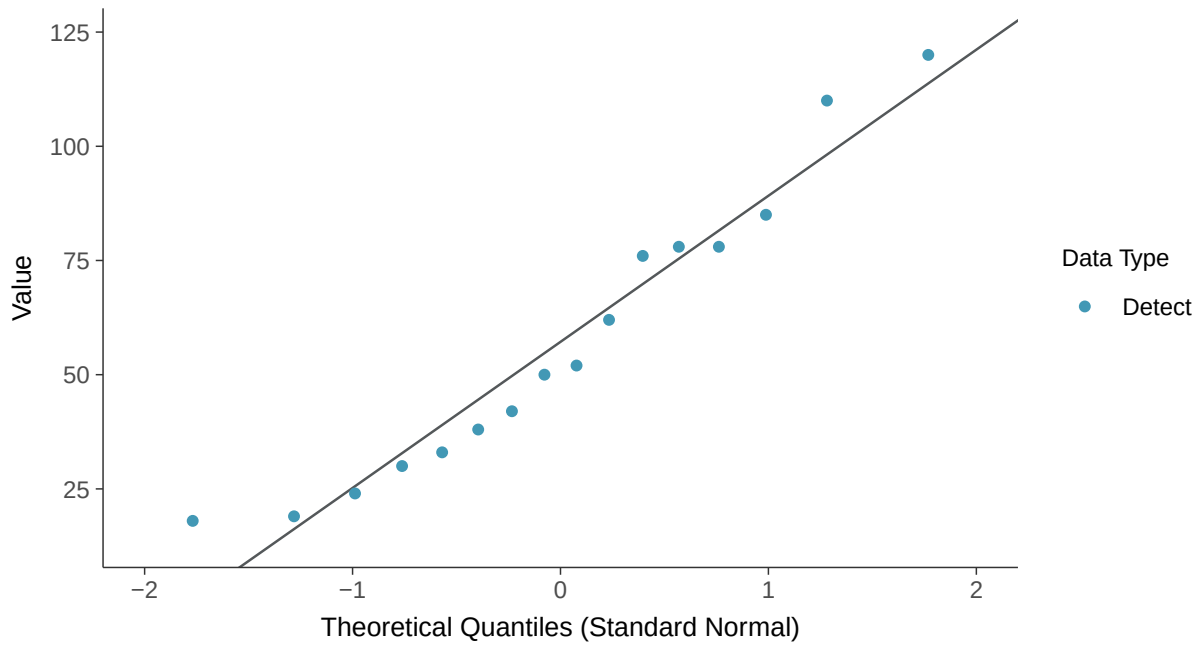
Boxplot by Season

Sulfate (as SO₄), MW-20 (mg/L)



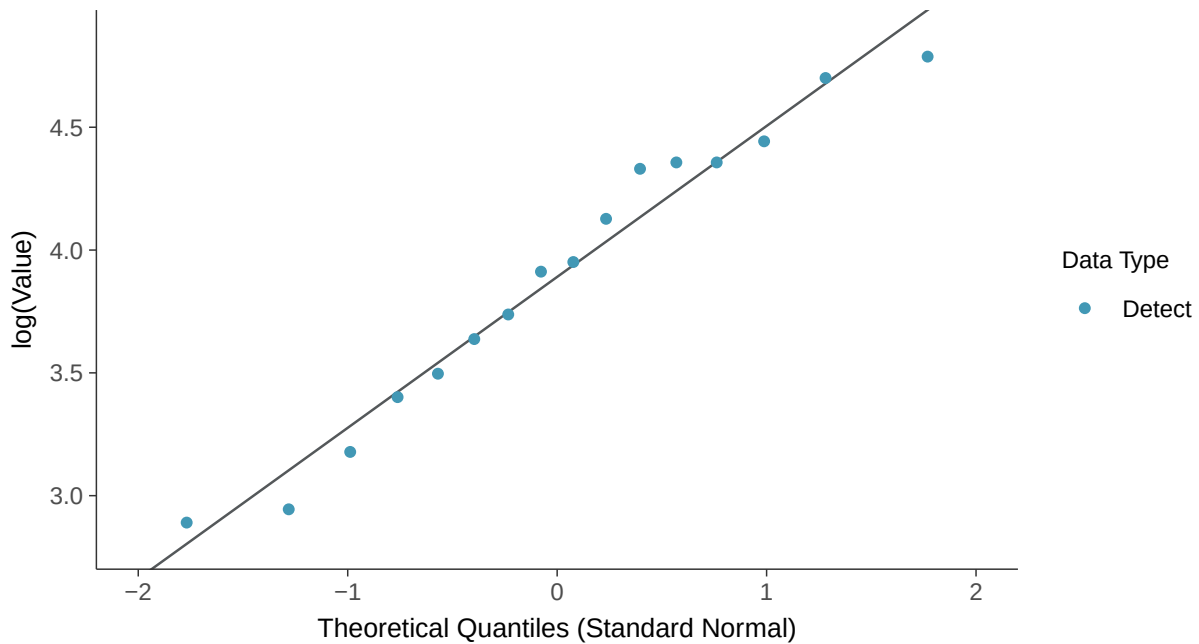
Normal Q-Q plot

Sulfate (as SO₄), MW-20 (mg/L)



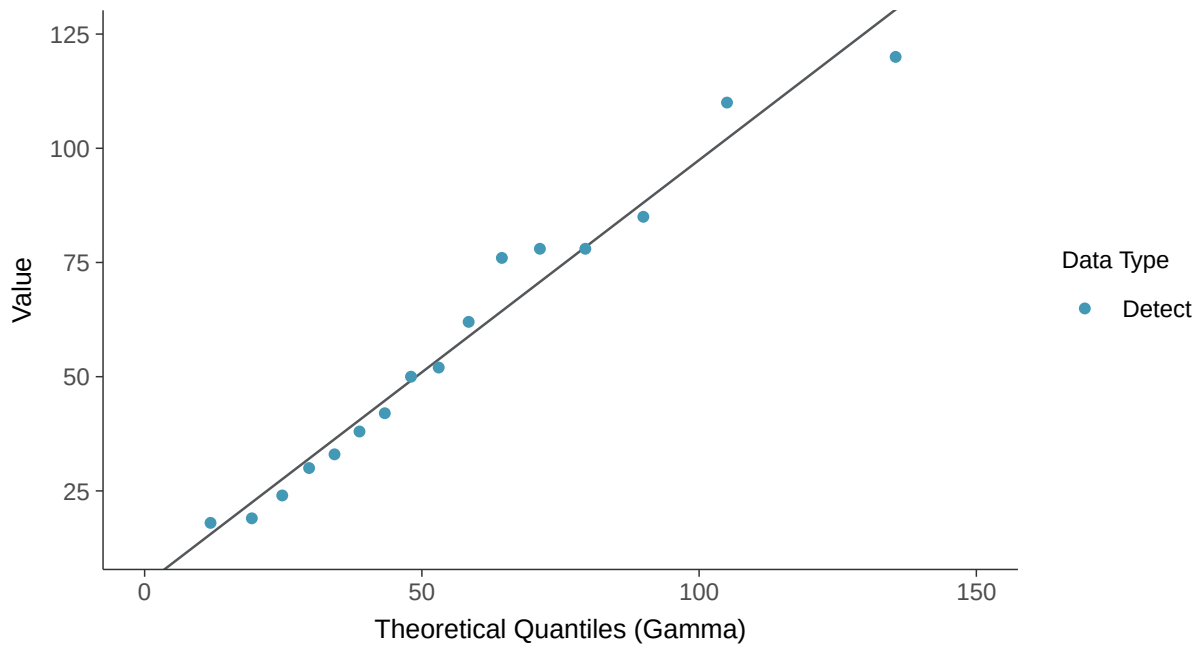
Lognormal Q-Q plot

Sulfate (as SO₄), MW-20 (mg/L)



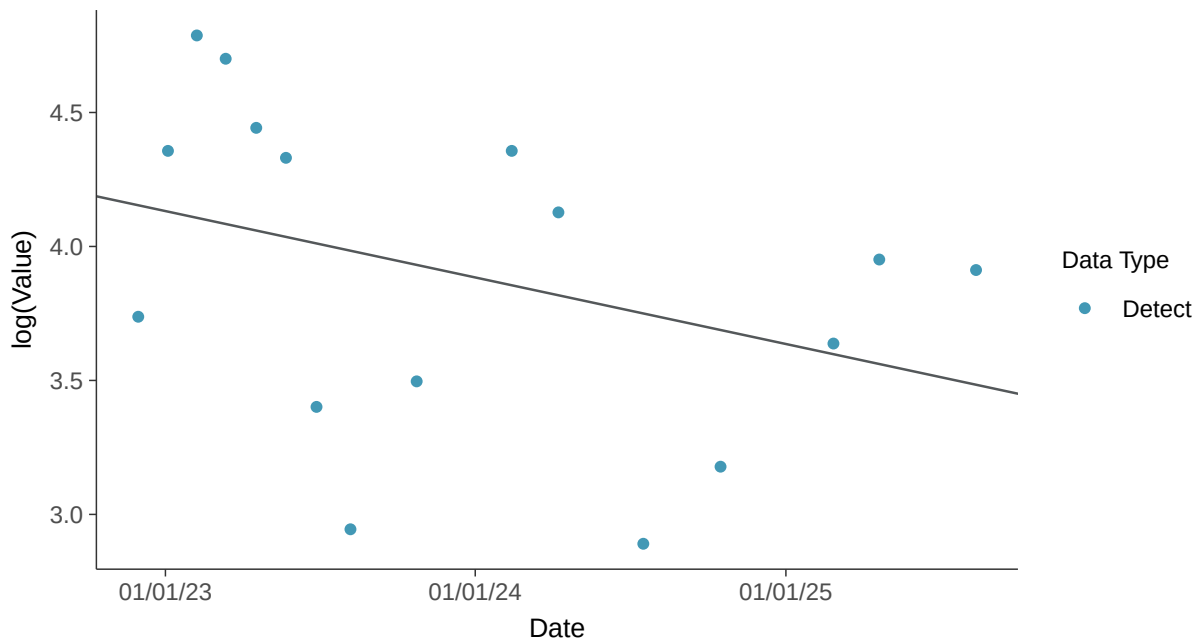
Gamma Q-Q plot

Sulfate (as SO₄), MW-20 (mg/L)



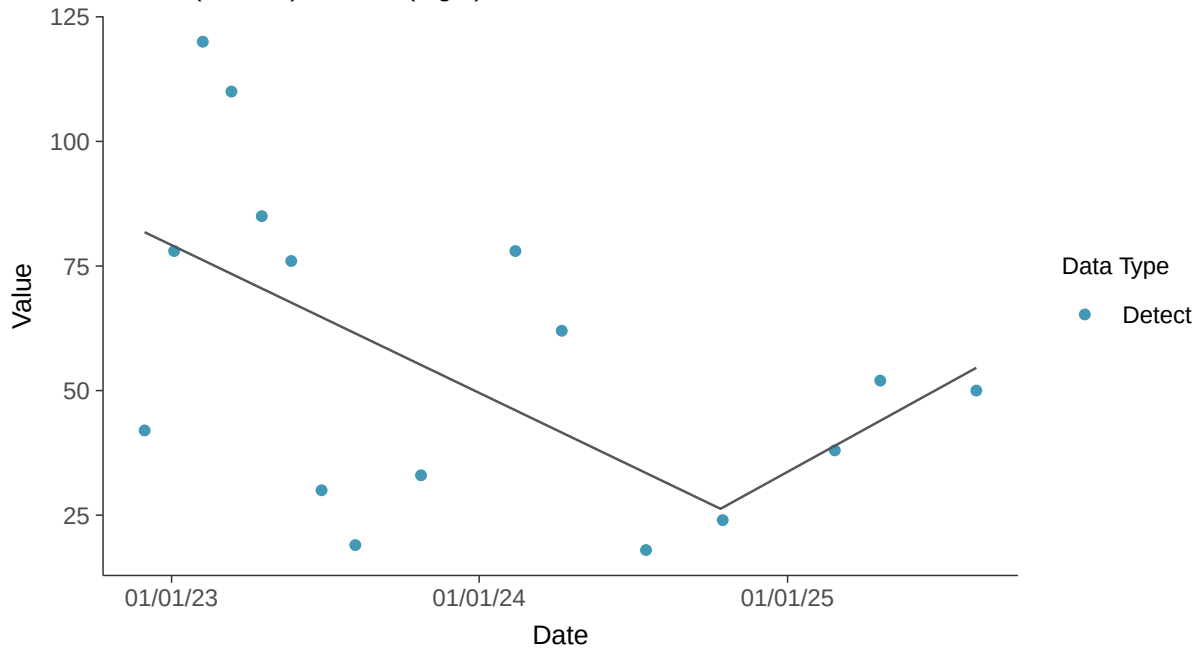
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-20 (mg/L)



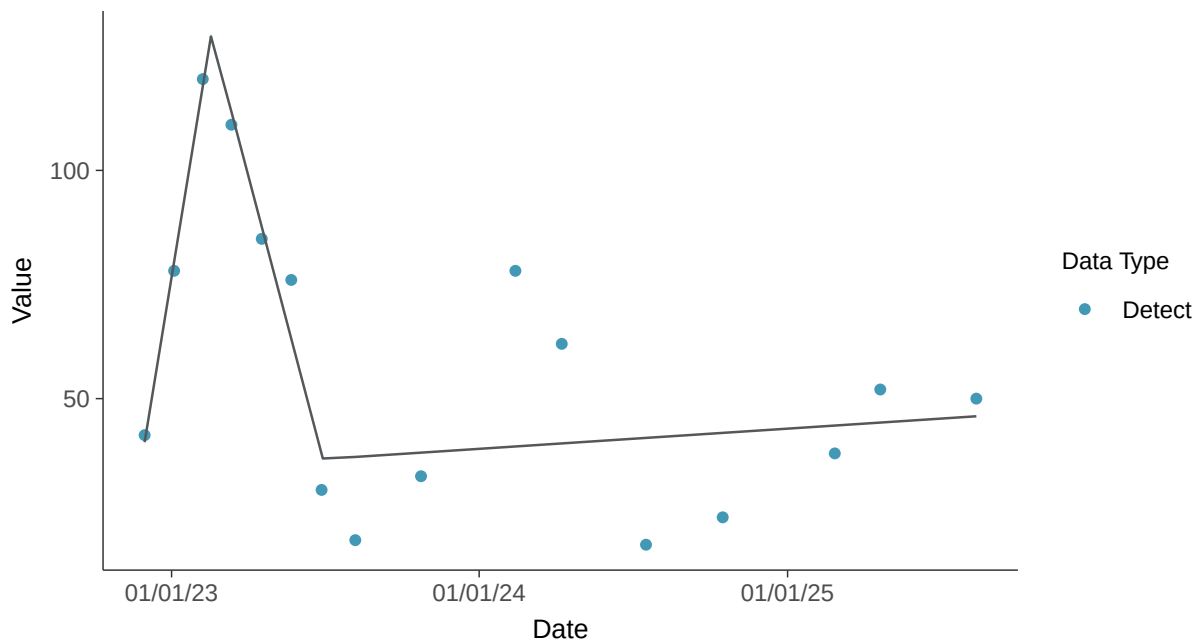
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-20 (mg/L)

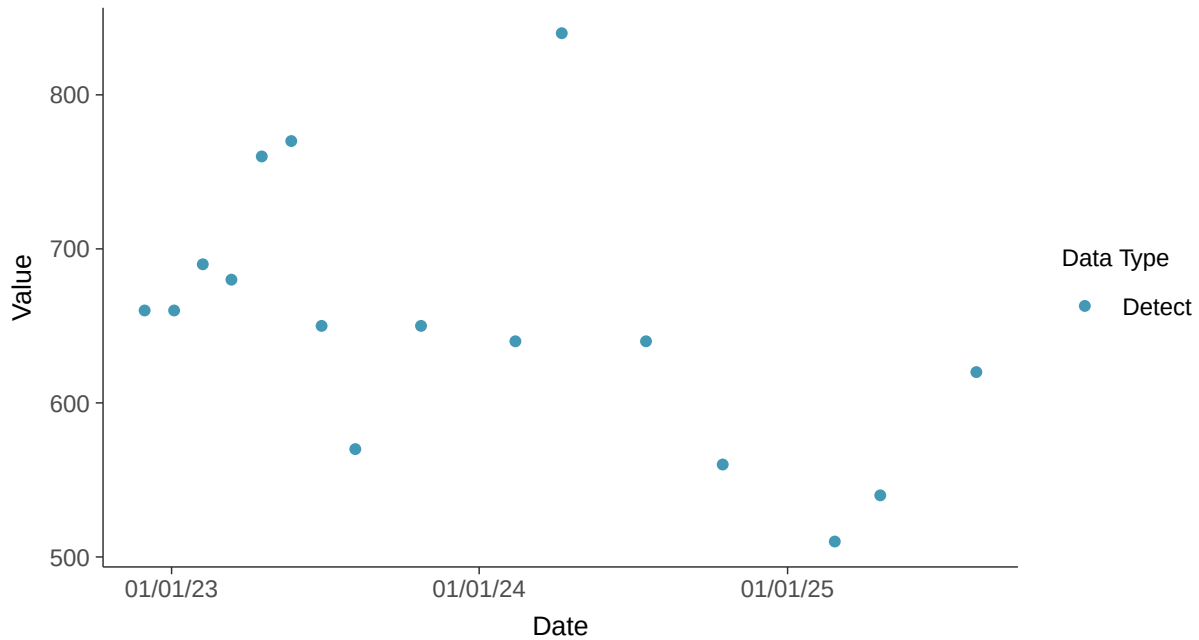


Appendix III: Total Dissolved Solids, MW-20

ID: 30_1_3_126

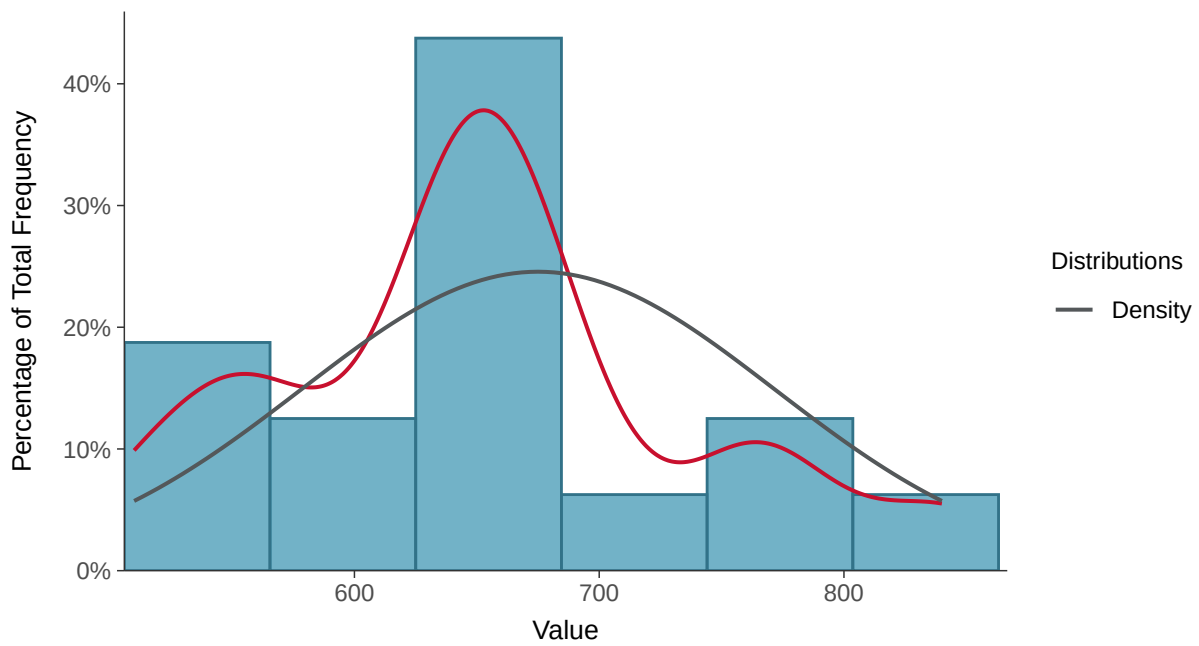
Scatter Plot

Total Dissolved Solids, MW-20 (mg/L)



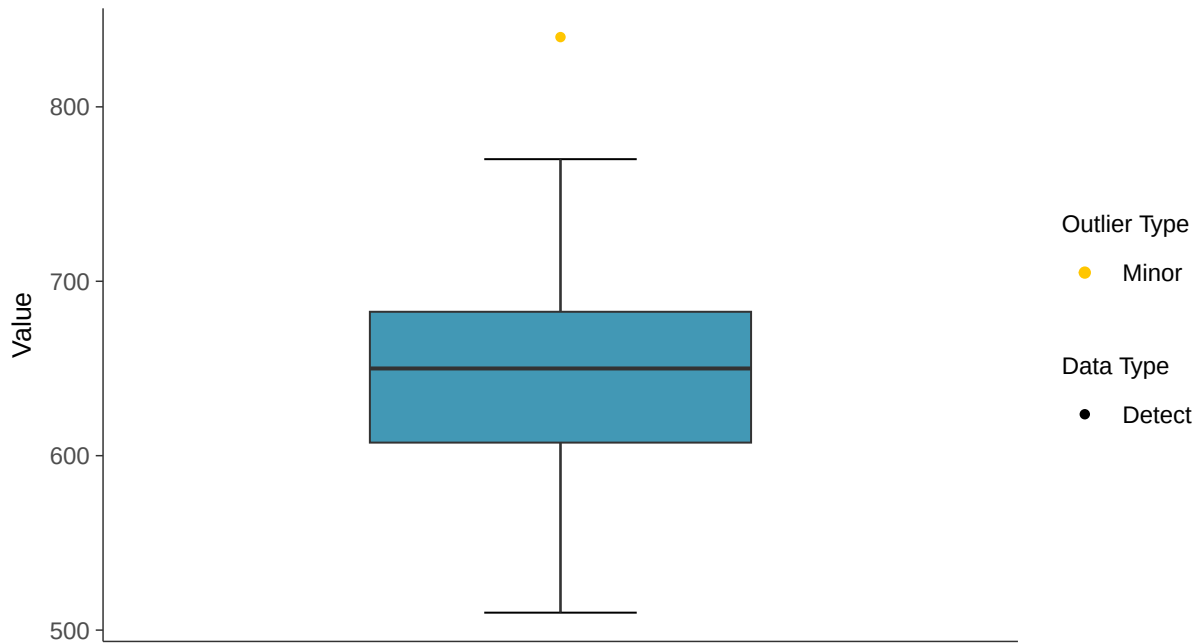
Histogram

Total Dissolved Solids, MW-20 (mg/L)



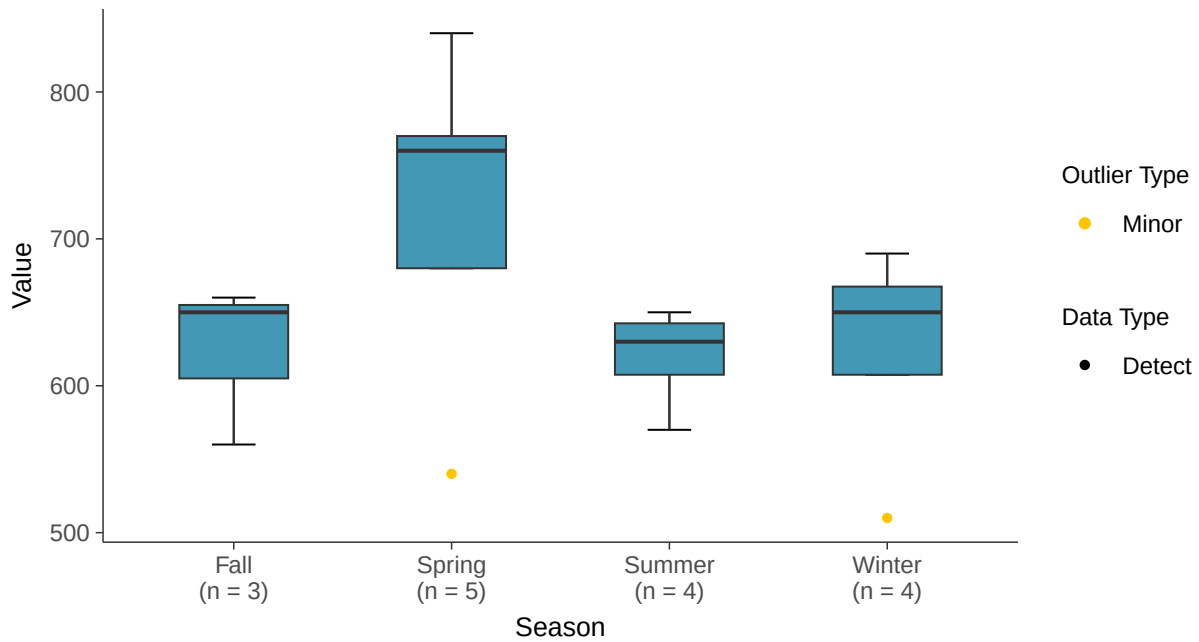
Boxplot

Total Dissolved Solids, MW-20 (mg/L)



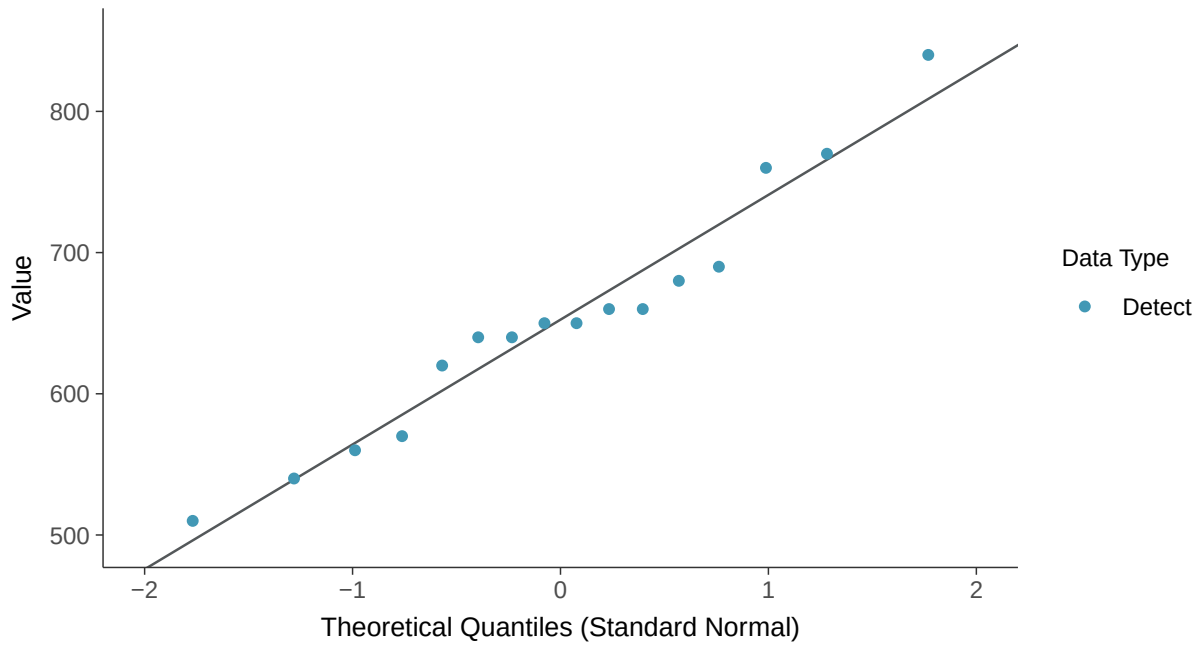
Boxplot by Season

Total Dissolved Solids, MW-20 (mg/L)



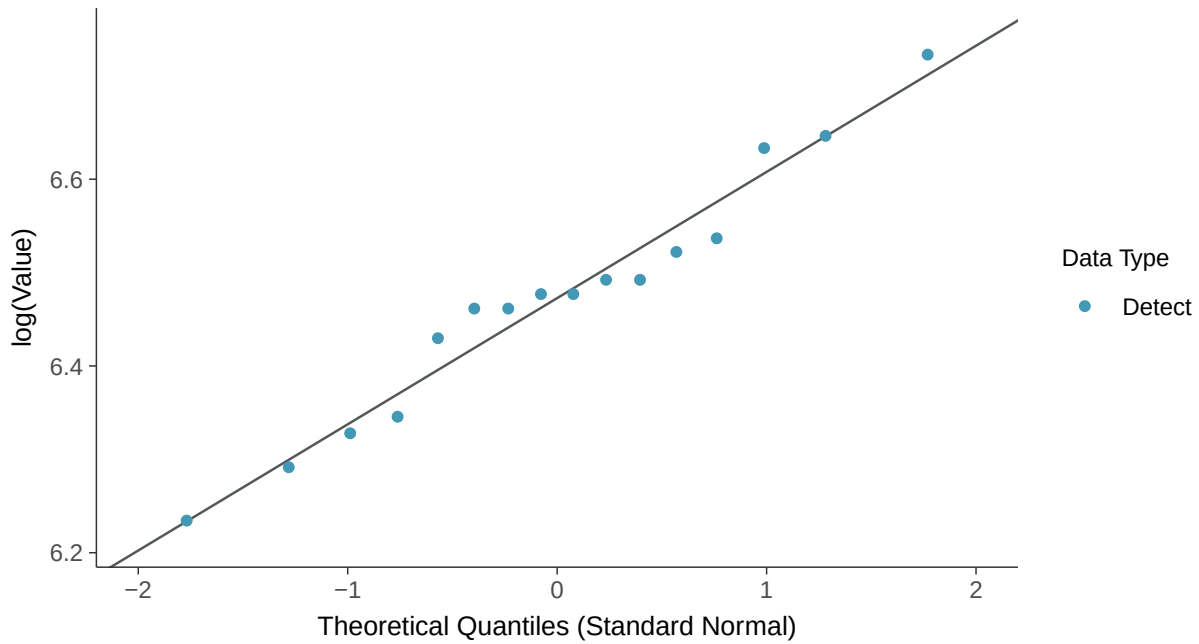
Normal Q-Q plot

Total Dissolved Solids, MW-20 (mg/L)



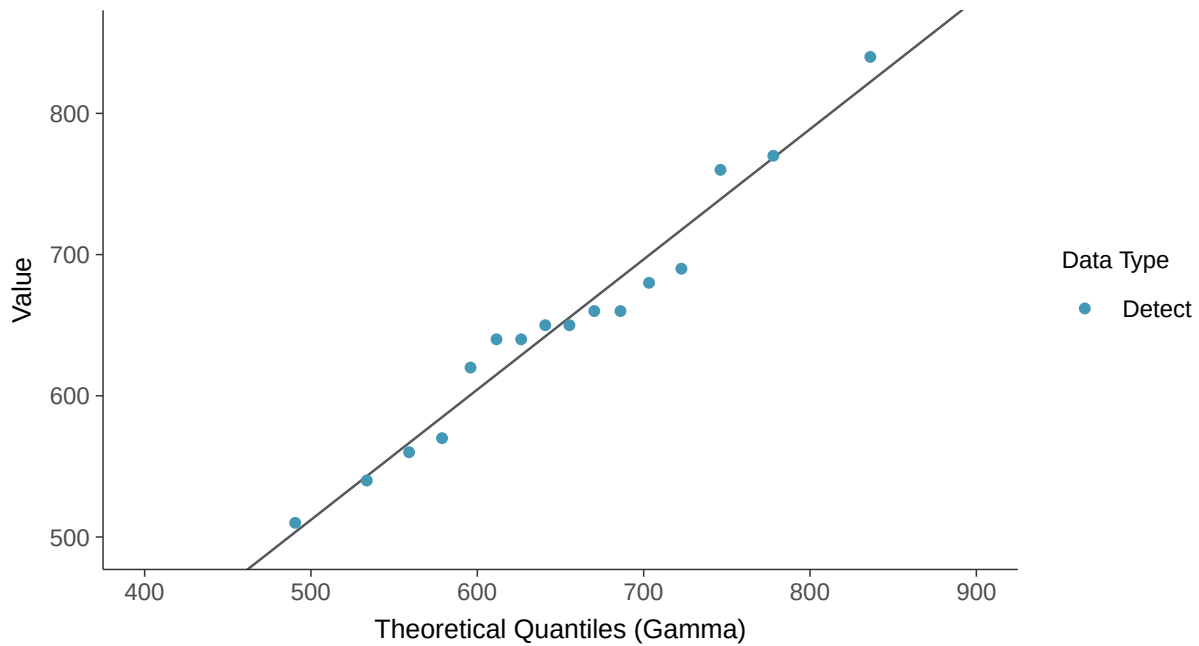
Lognormal Q-Q plot

Total Dissolved Solids, MW-20 (mg/L)



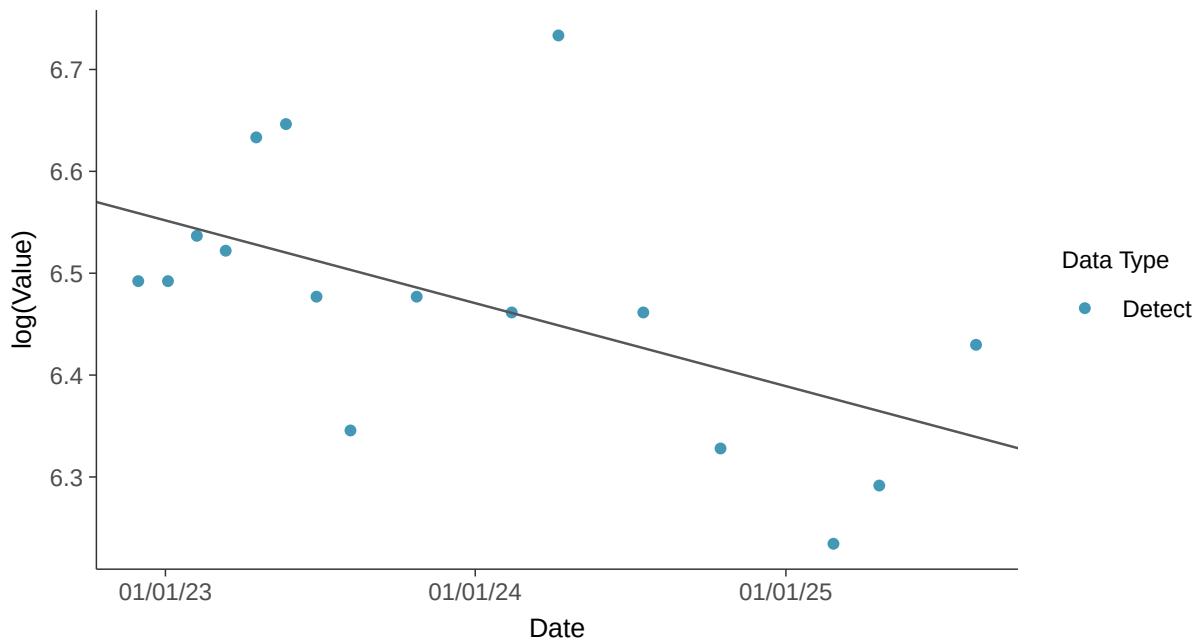
Gamma Q-Q plot

Total Dissolved Solids, MW-20 (mg/L)



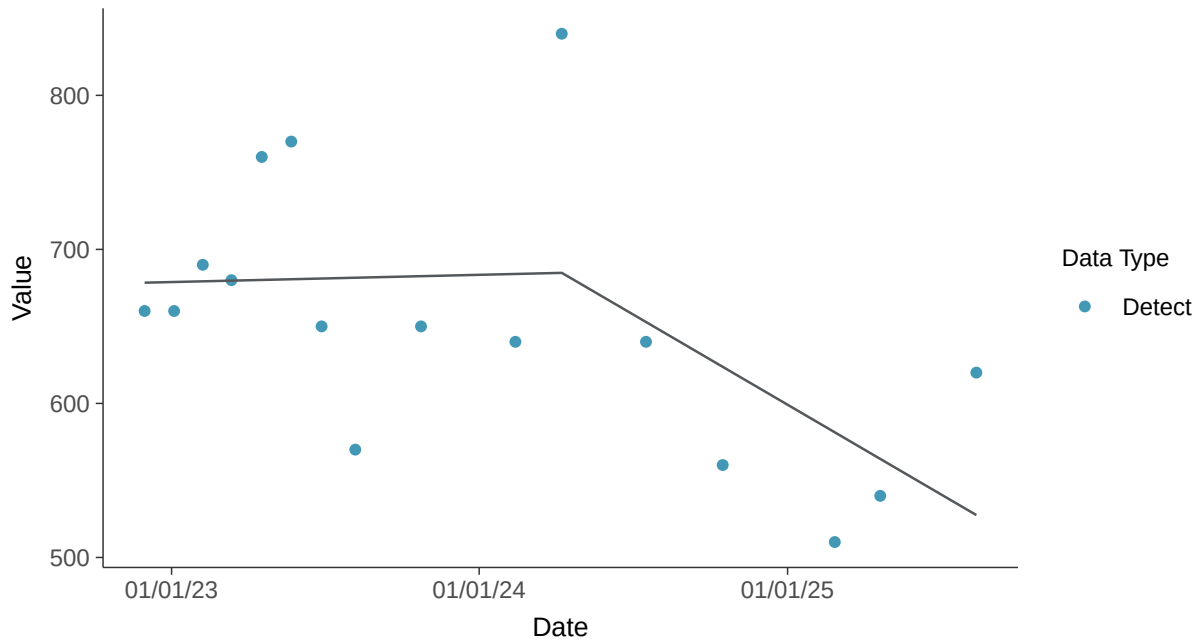
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-20 (mg/L)



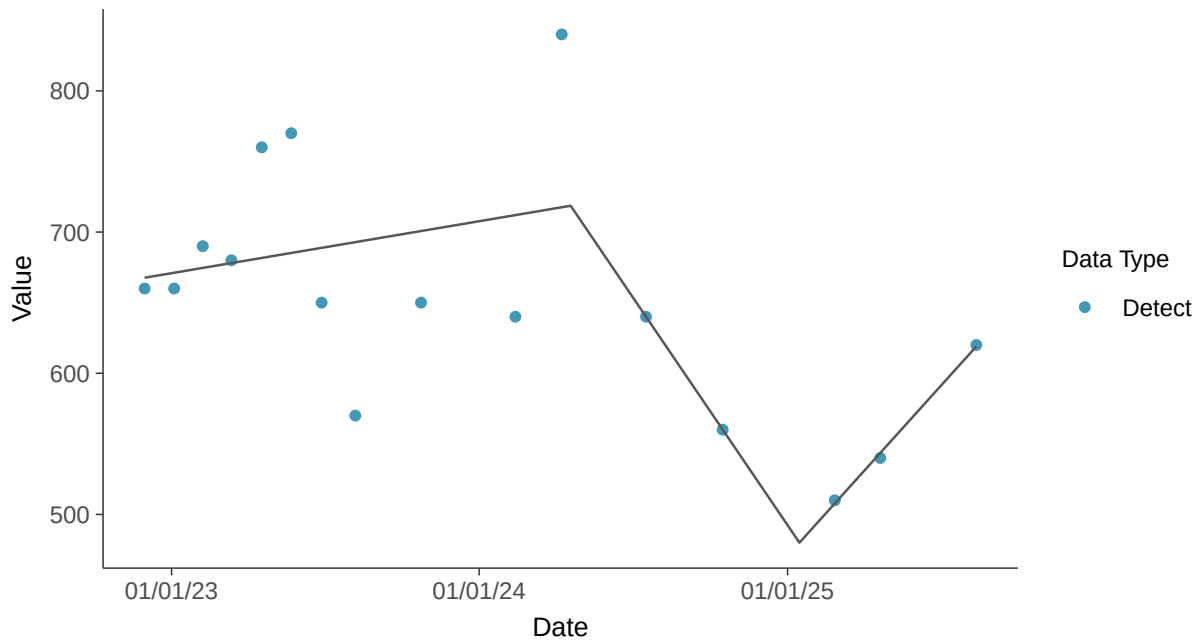
Trend Regression: Piecewise Linear-Linear

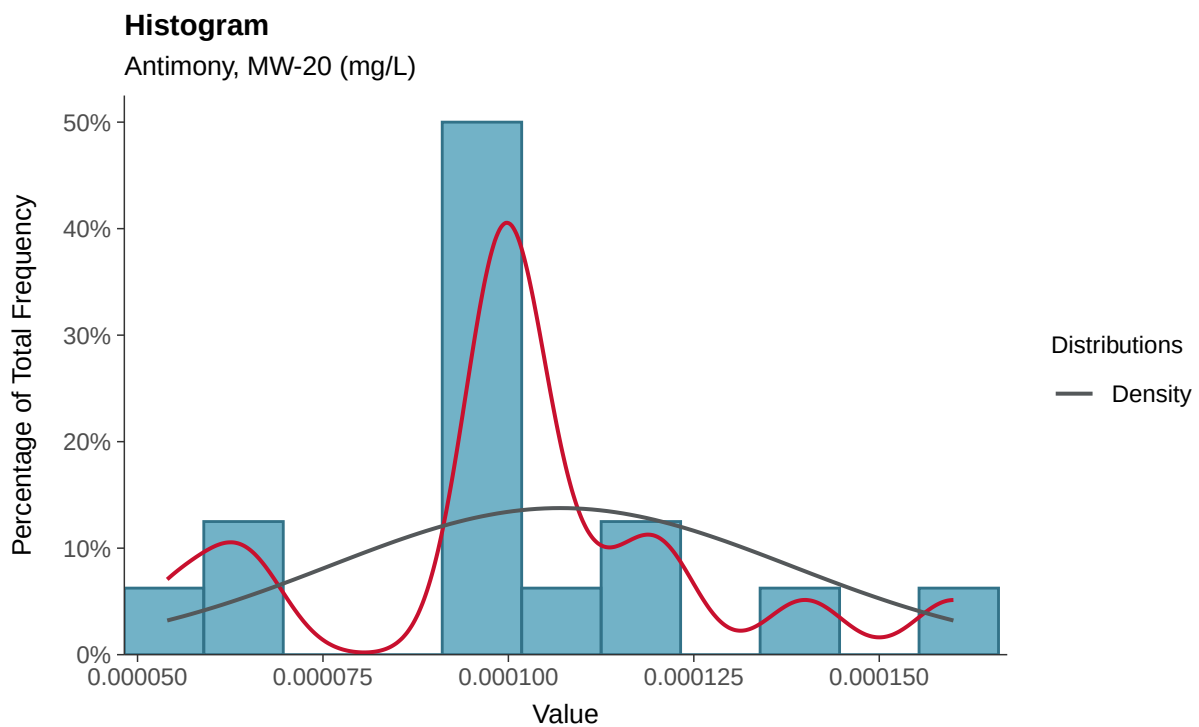
Total Dissolved Solids, MW-20 (mg/L)

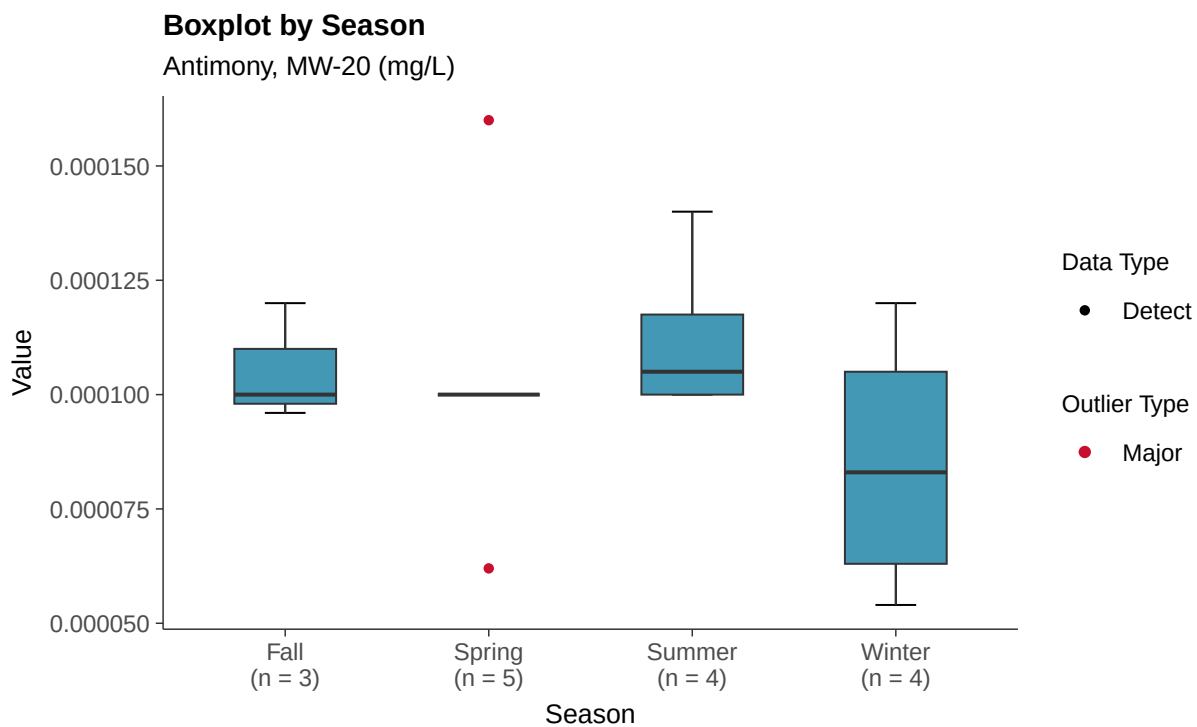
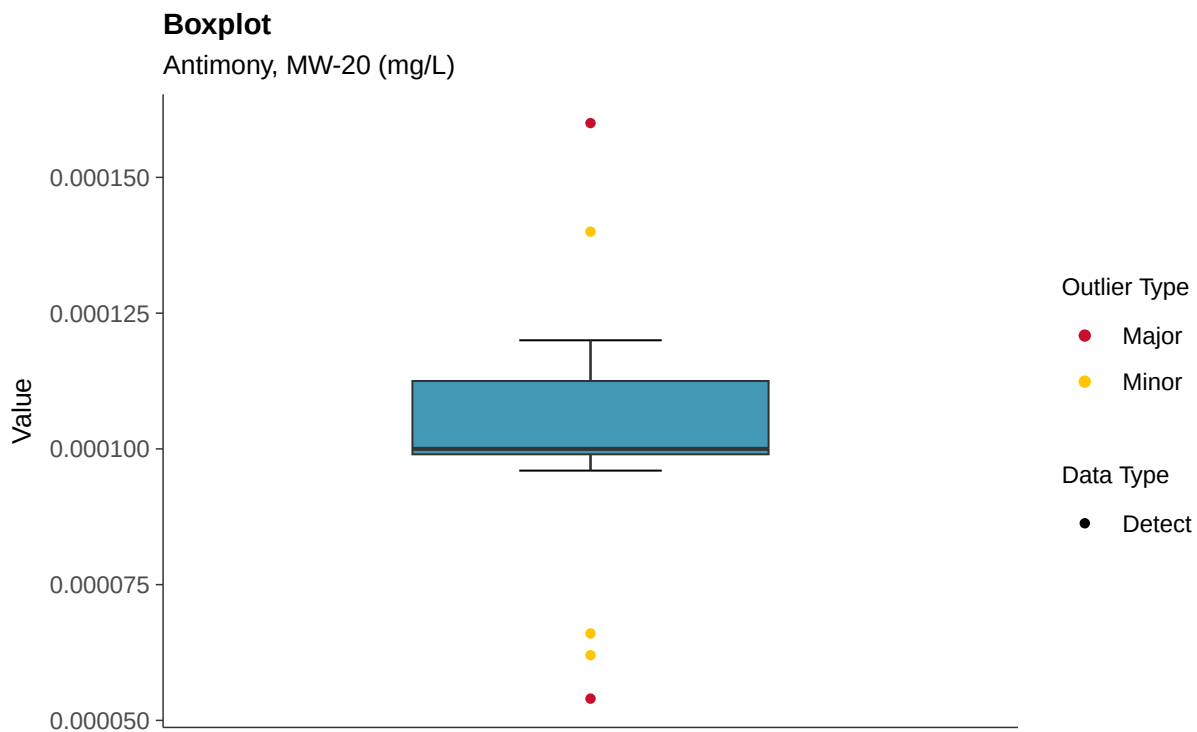


Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-20 (mg/L)

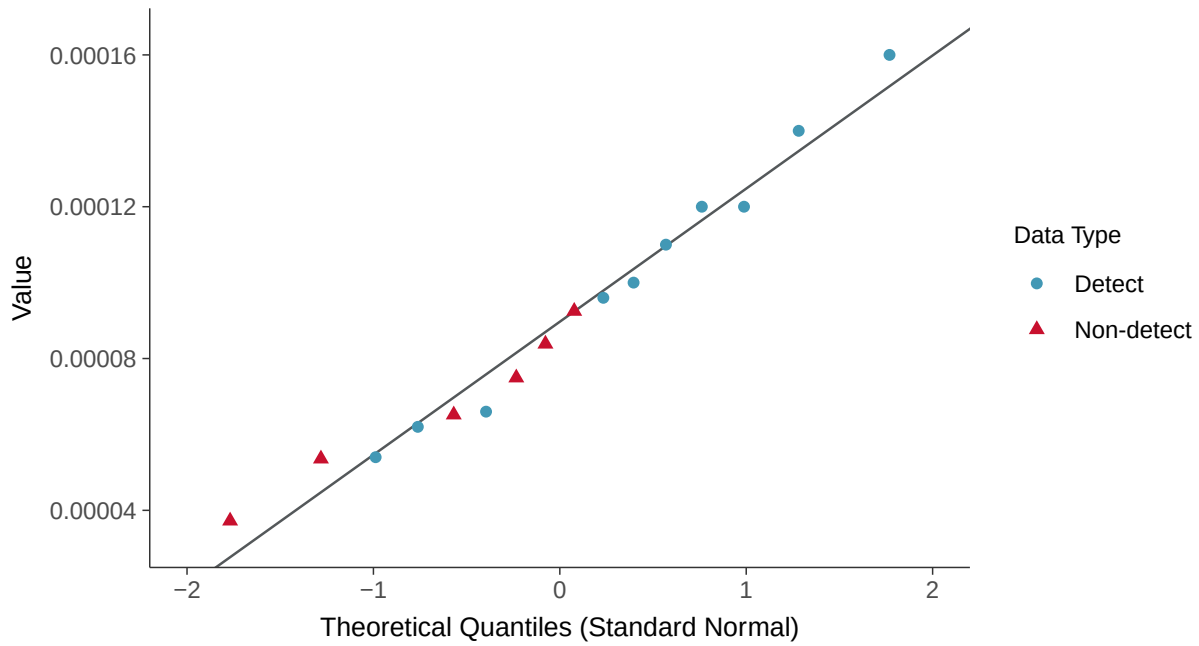






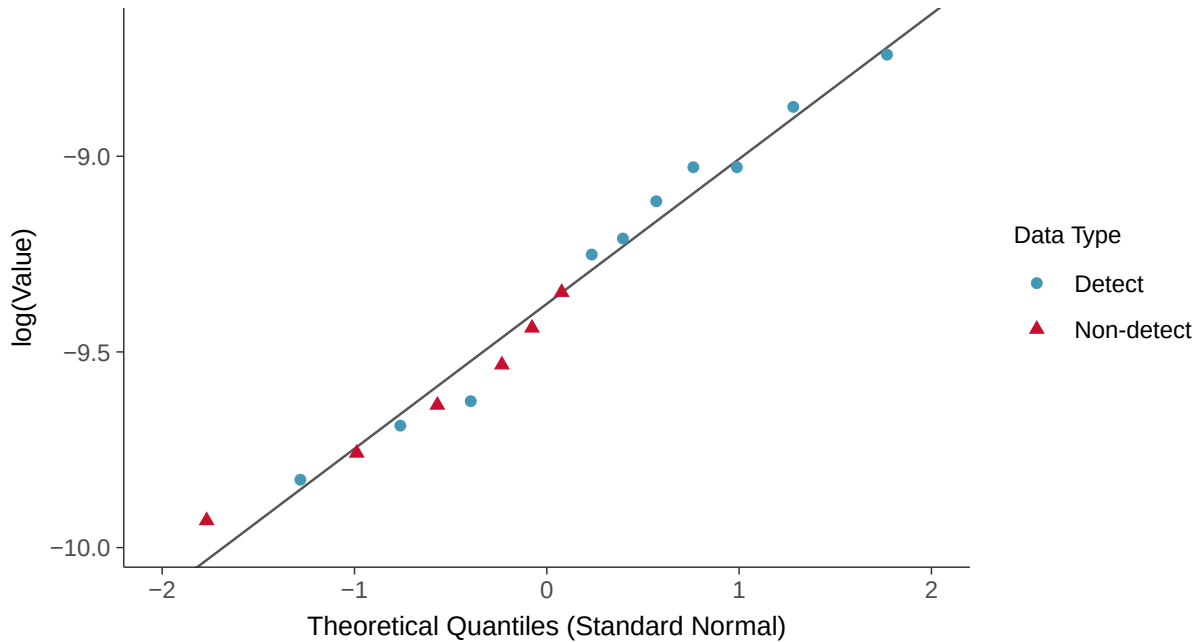
Normal Q-Q plot using ROS Imputed Estimates

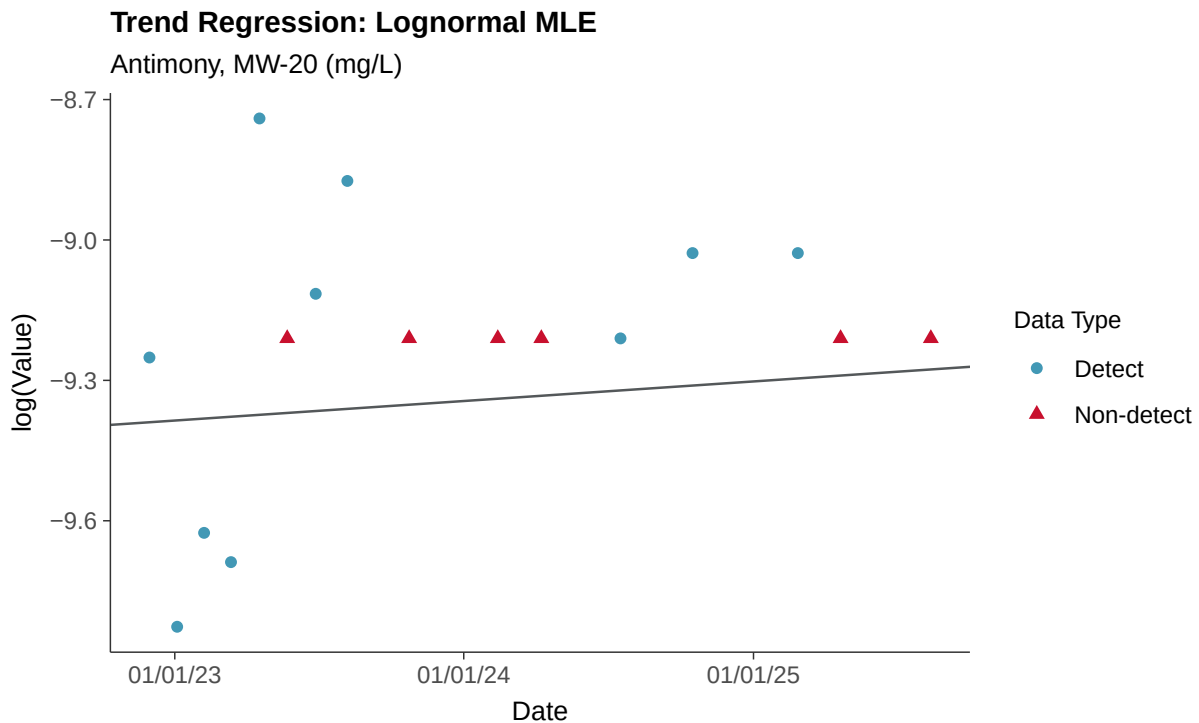
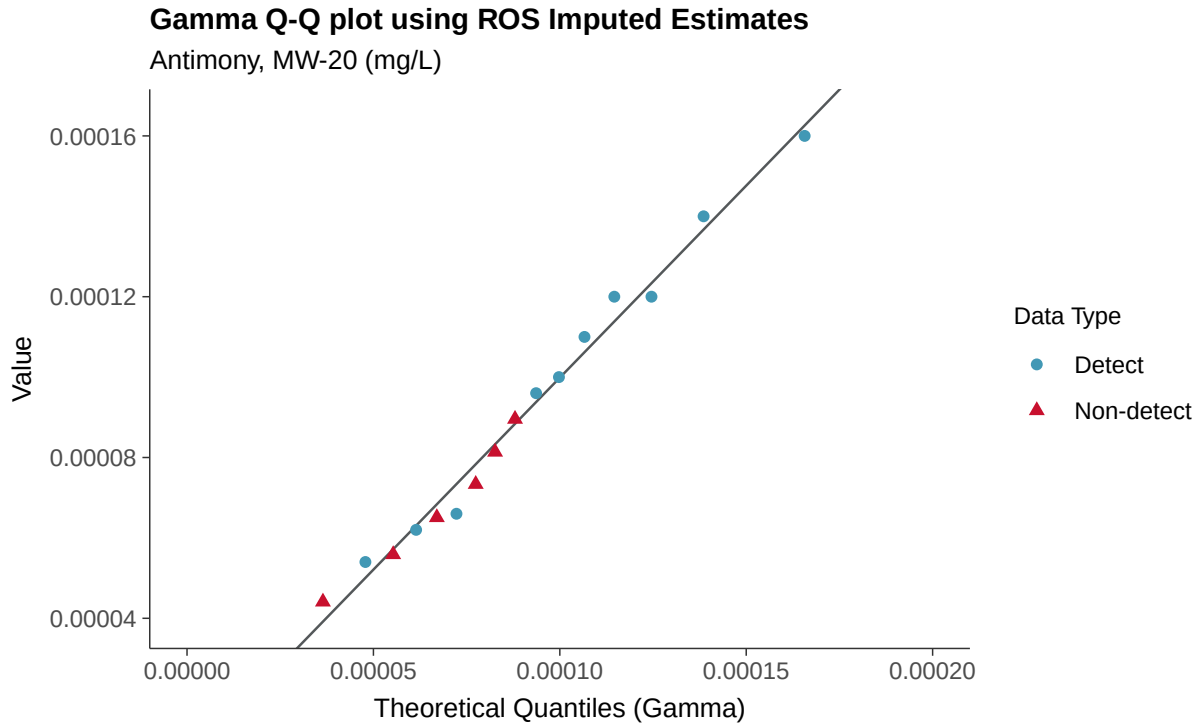
Antimony, MW-20 (mg/L)

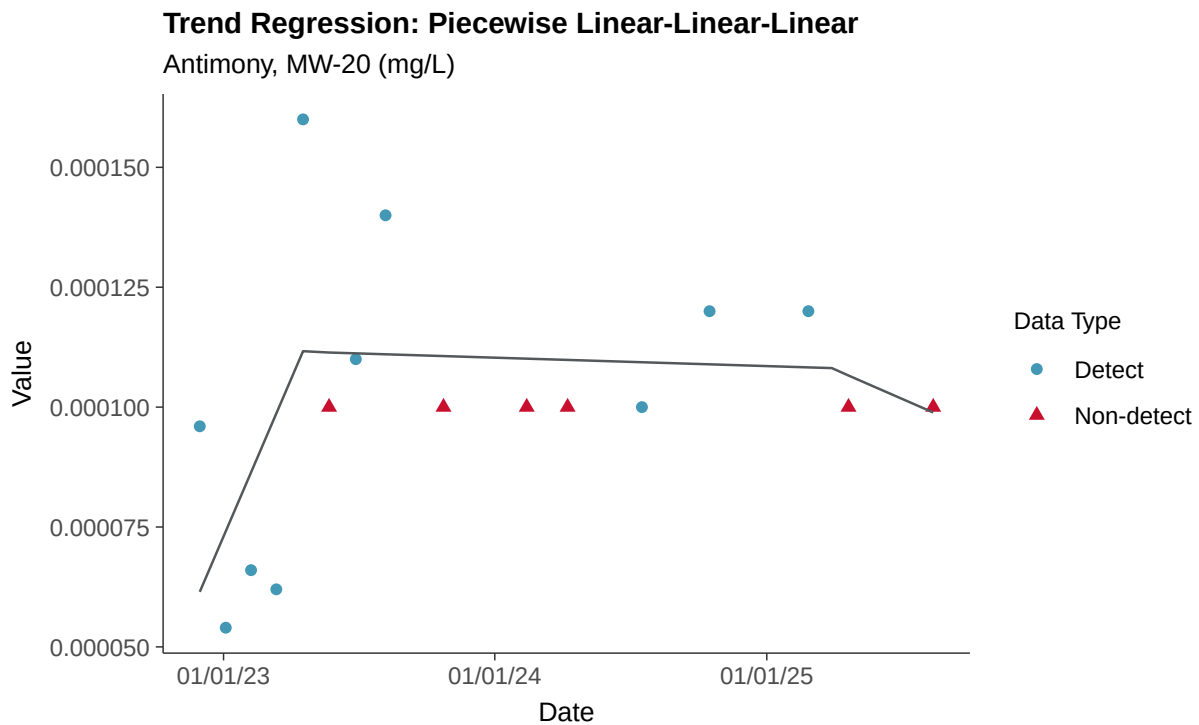


Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-20 (mg/L)

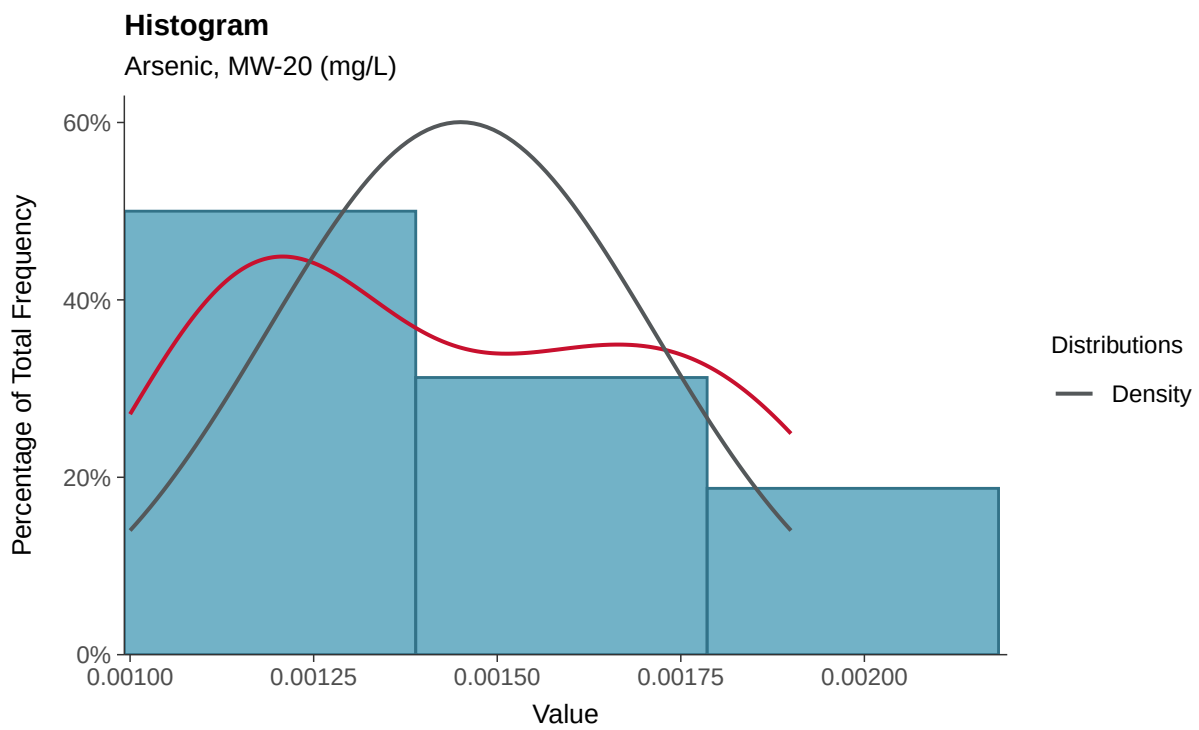
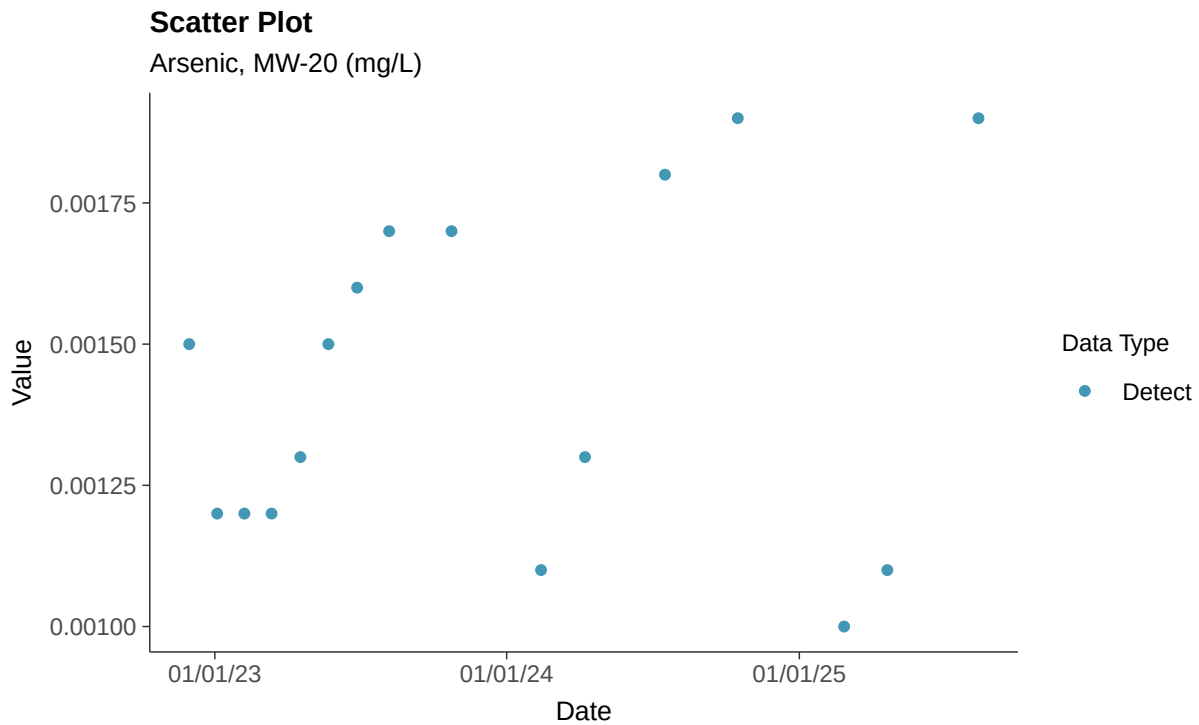






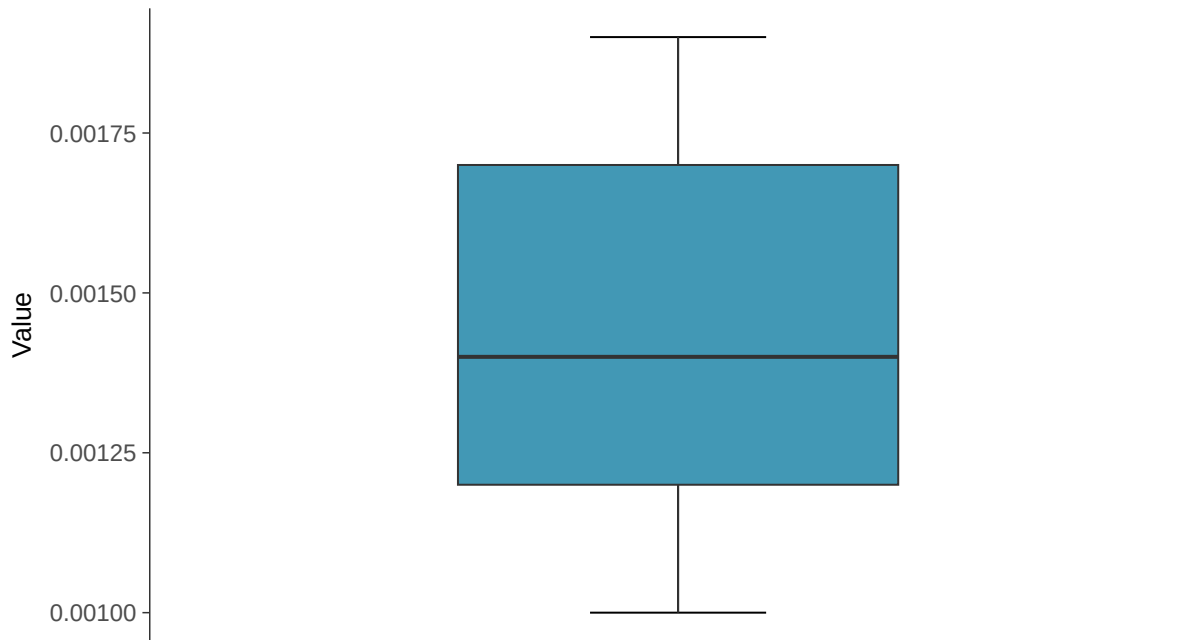
Appendix IV: Arsenic, MW-20

ID: 30_1_4_102



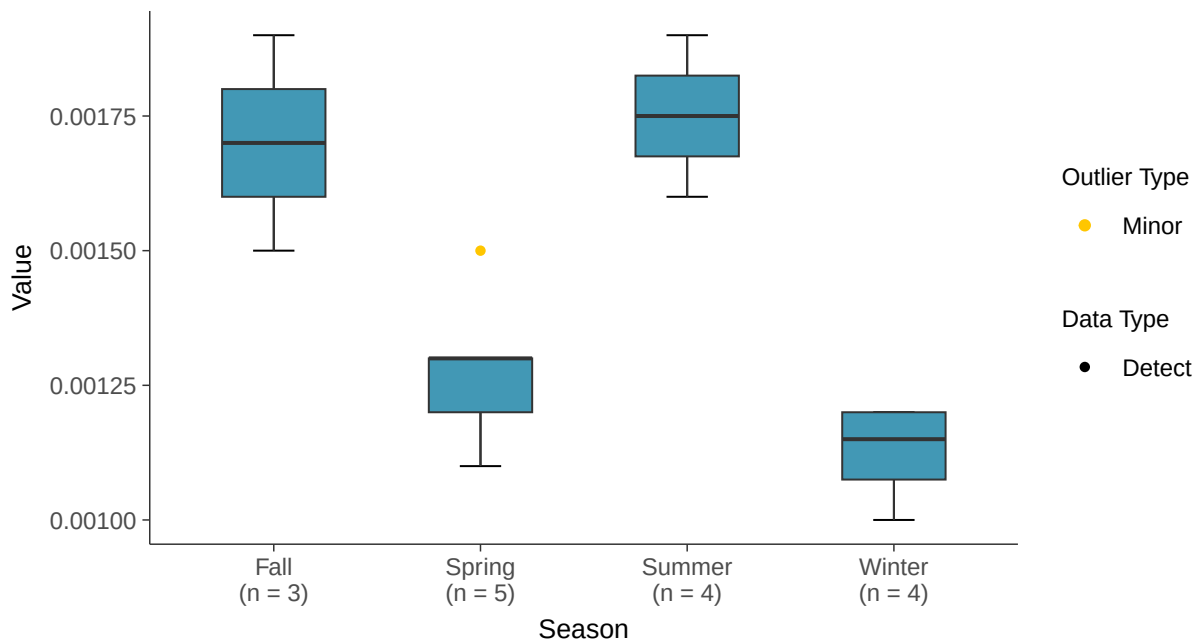
Boxplot

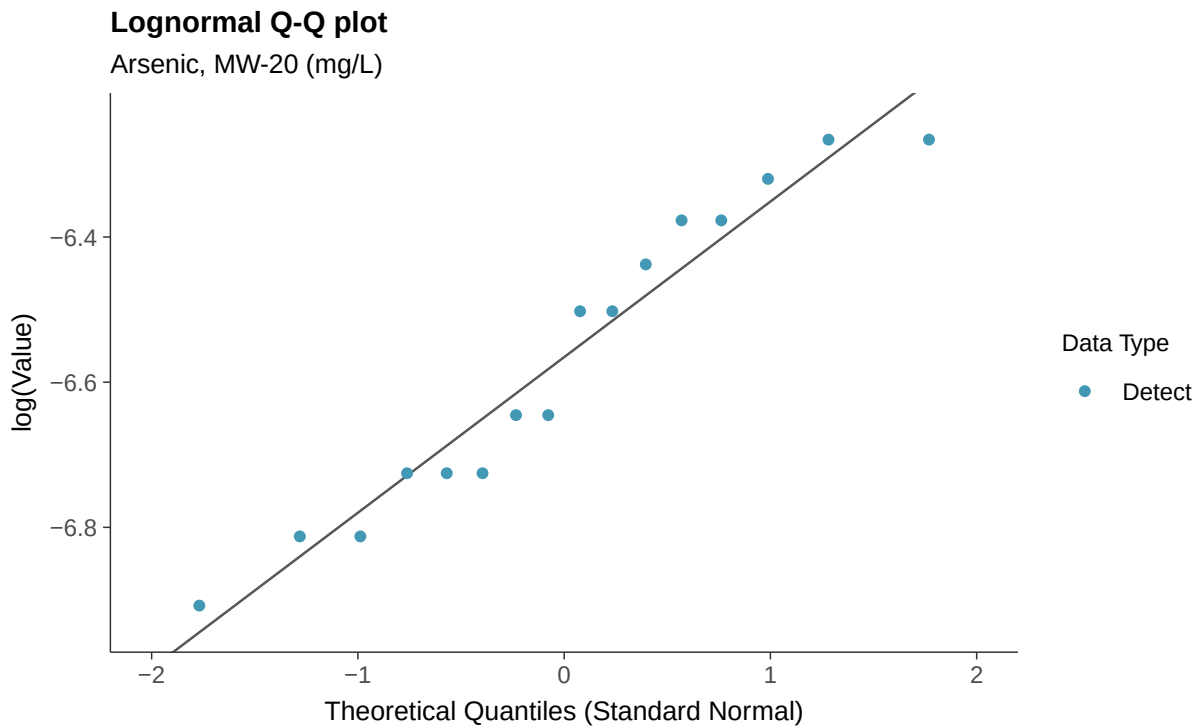
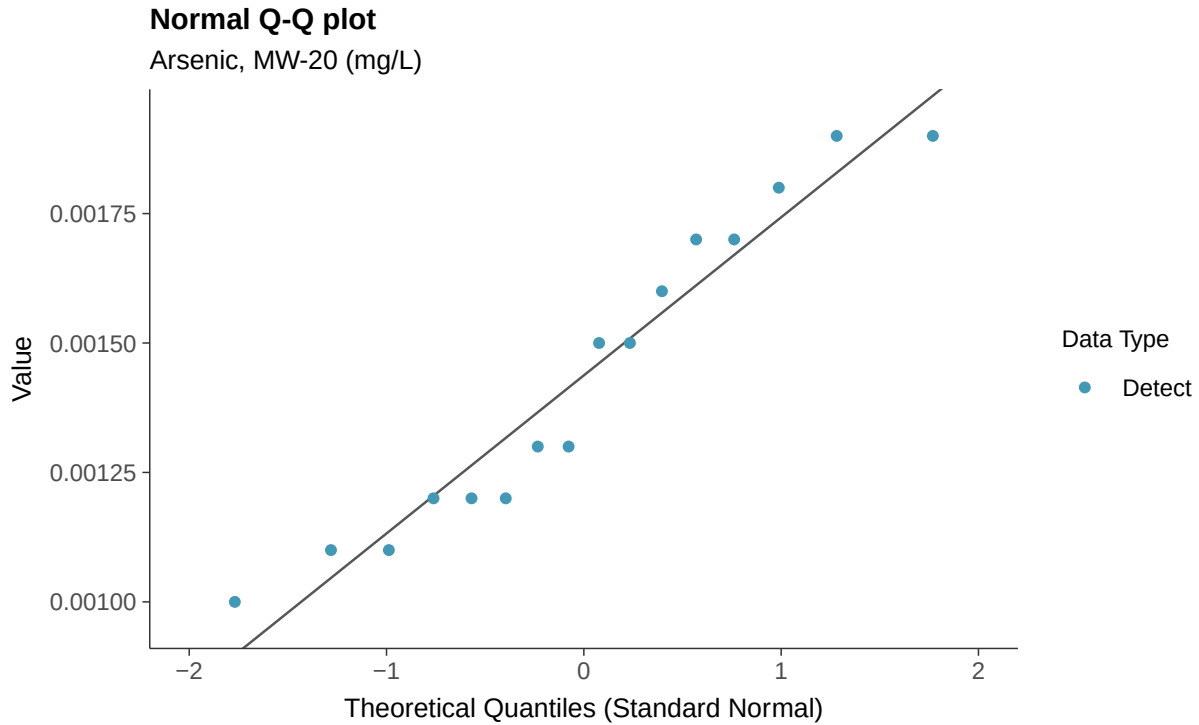
Arsenic, MW-20 (mg/L)

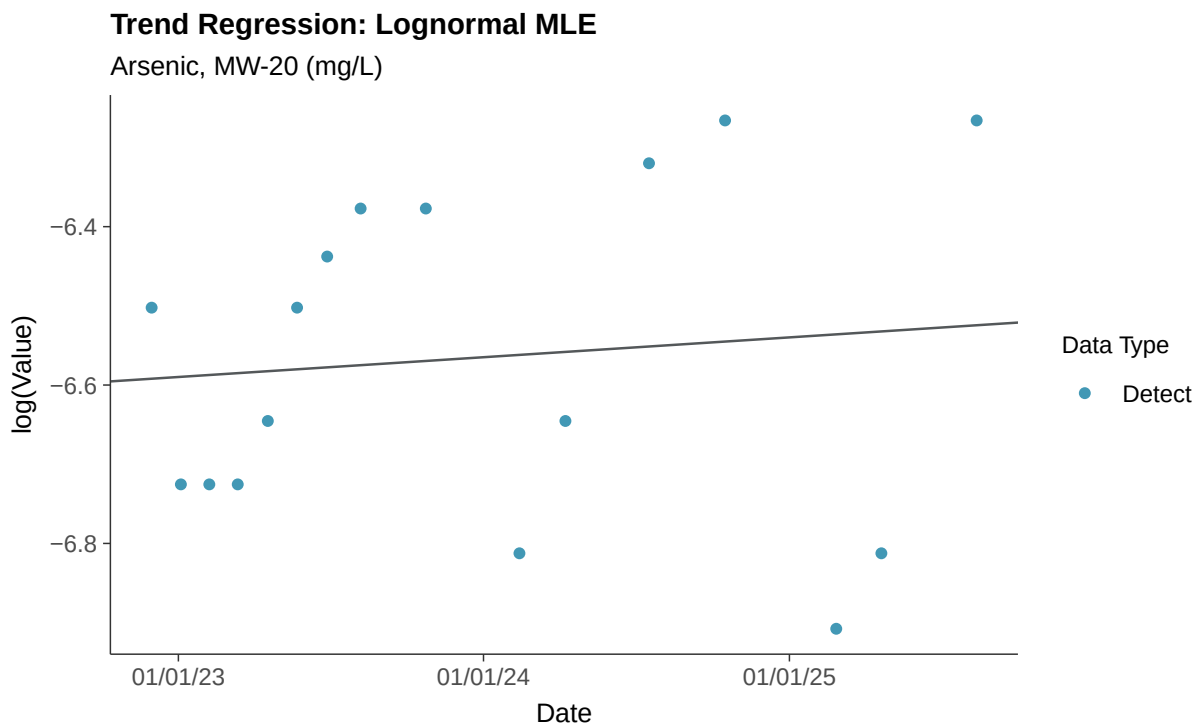
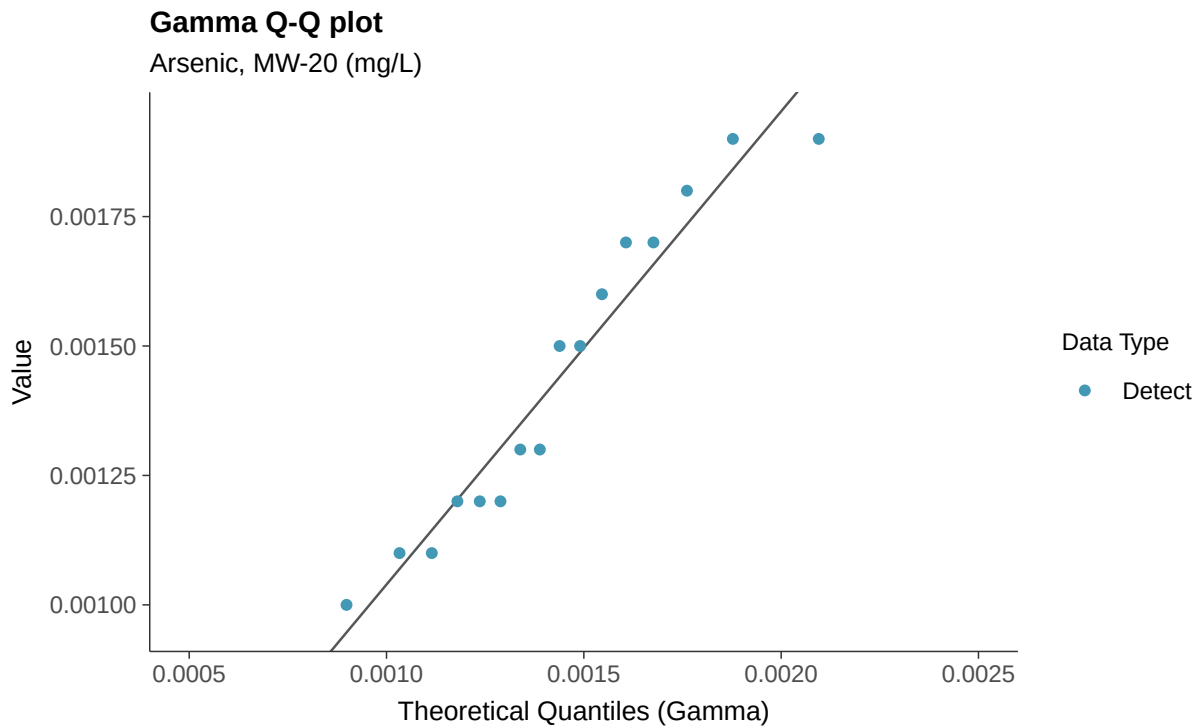


Boxplot by Season

Arsenic, MW-20 (mg/L)

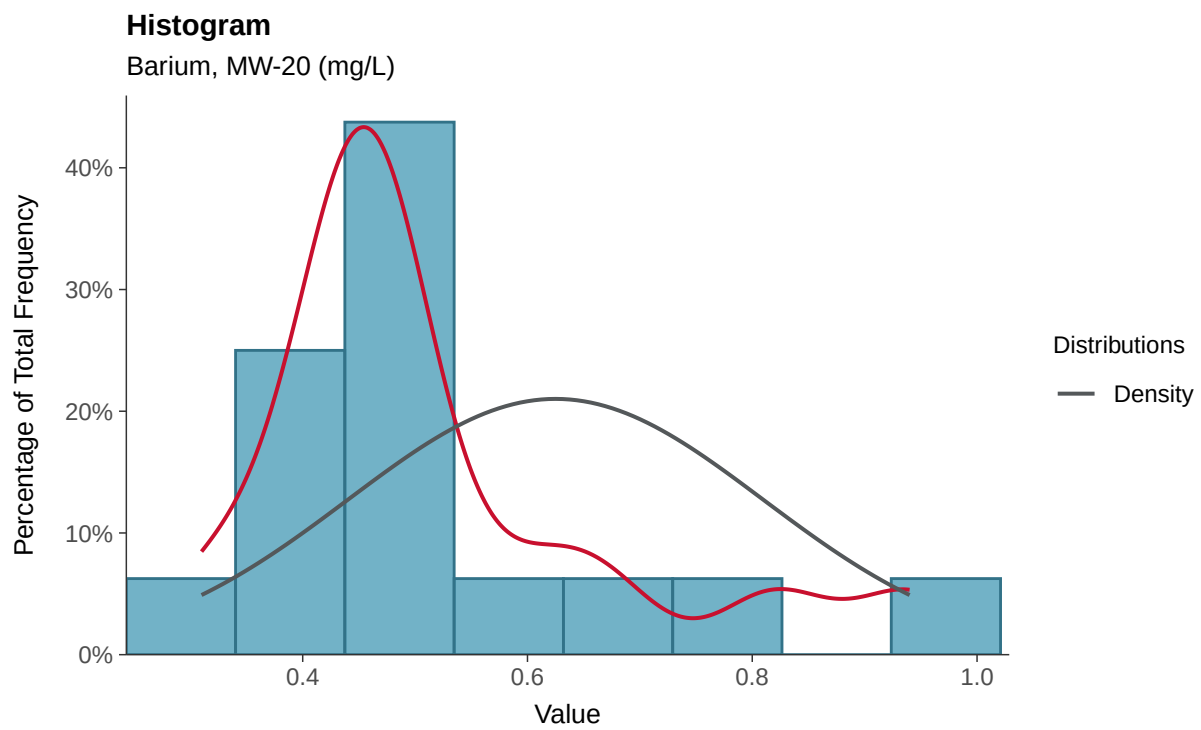
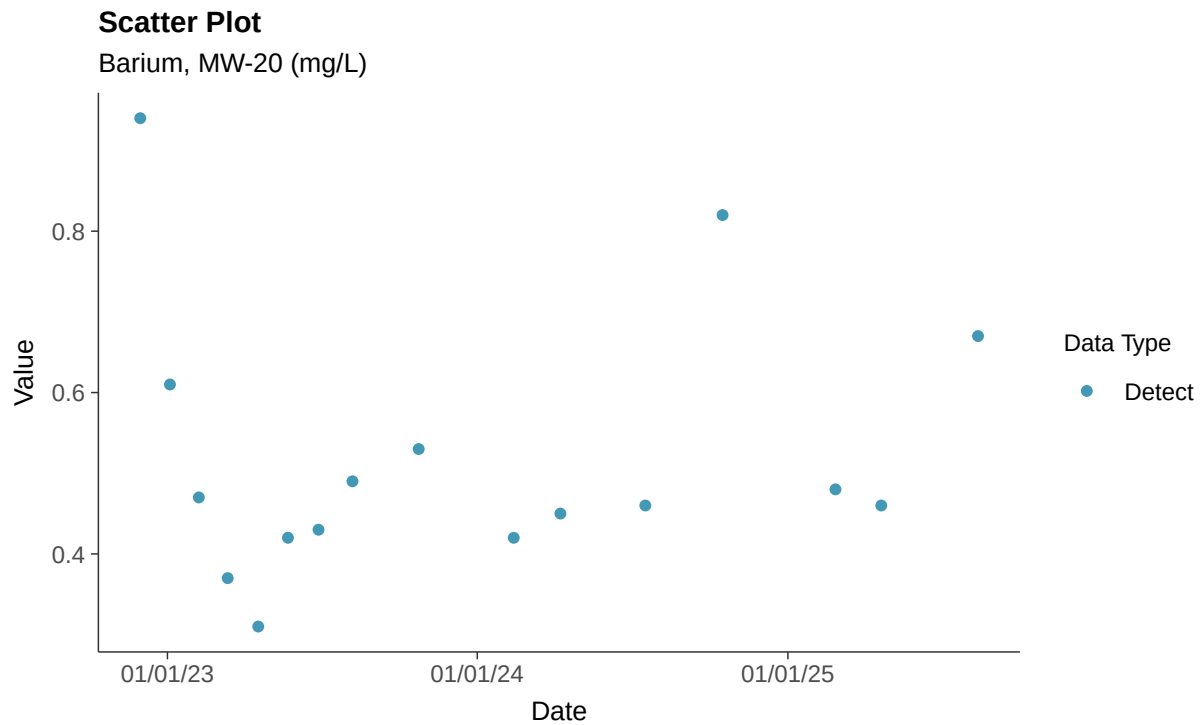






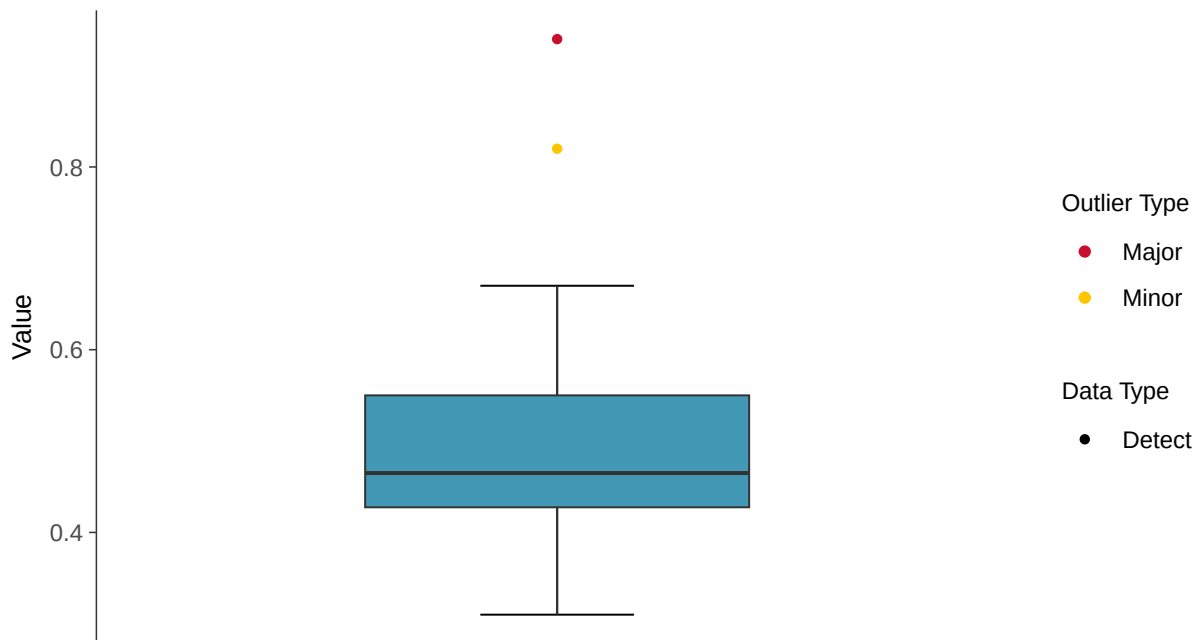
Appendix IV: Barium, MW-20

ID: 30_1_4_103



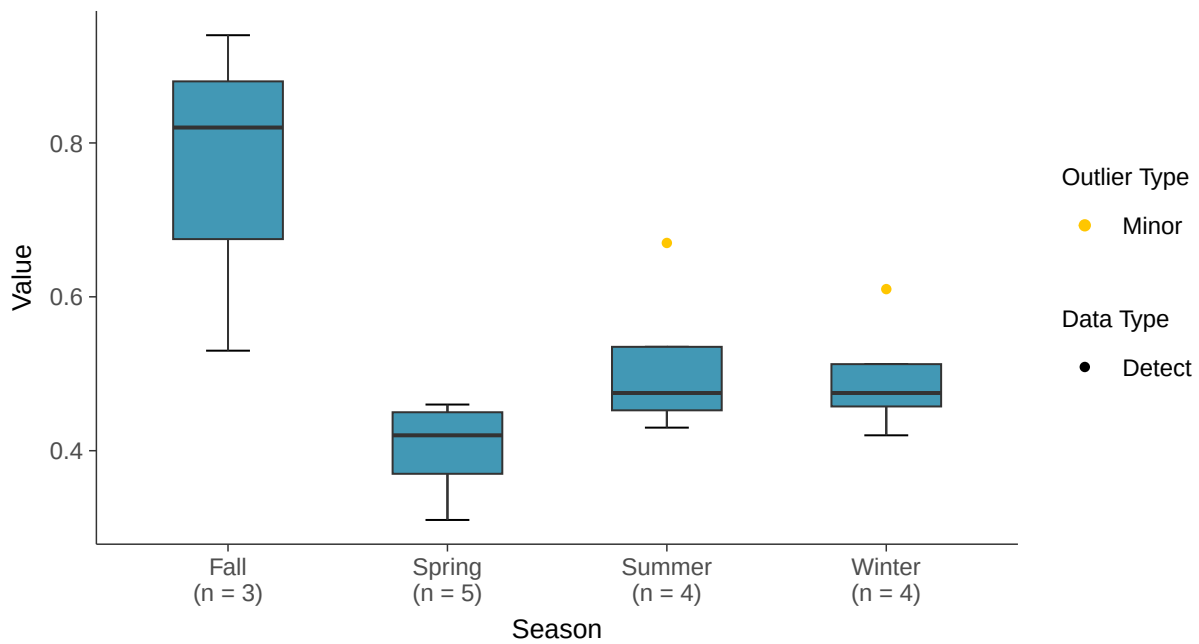
Boxplot

Barium, MW-20 (mg/L)



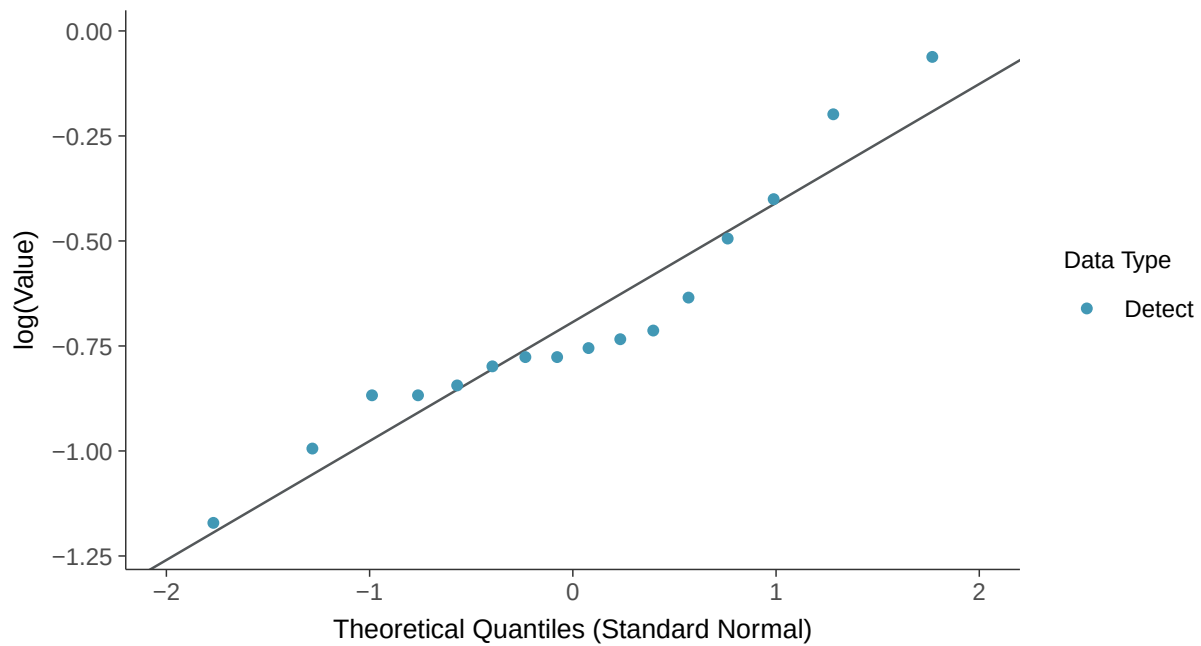
Boxplot by Season

Barium, MW-20 (mg/L)



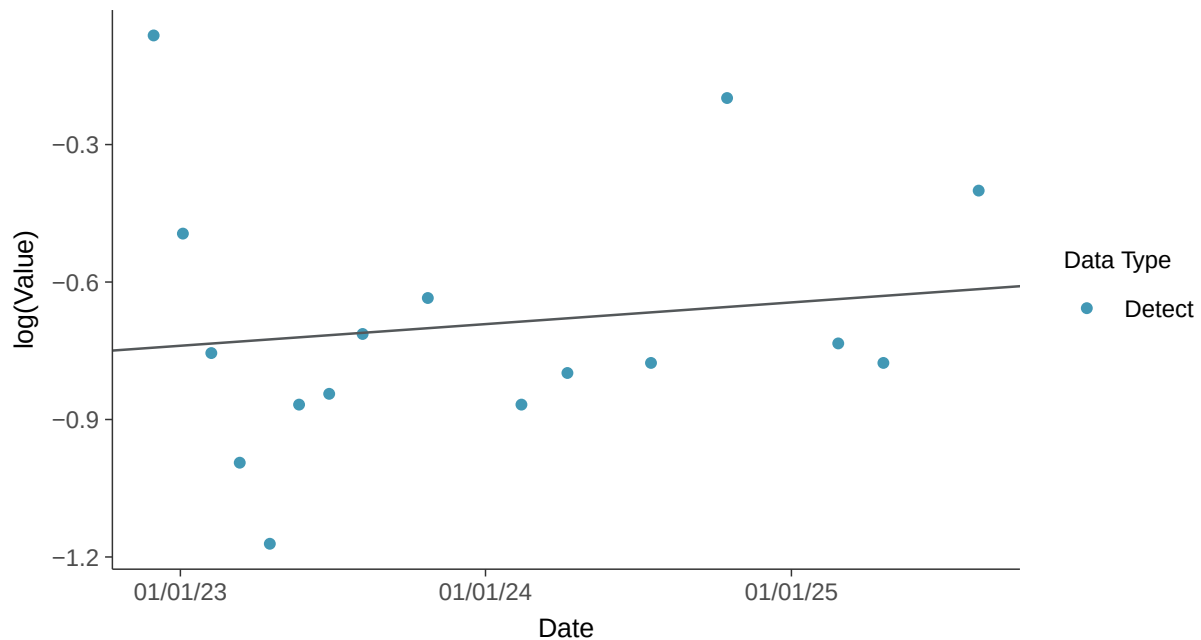
Lognormal Q-Q plot

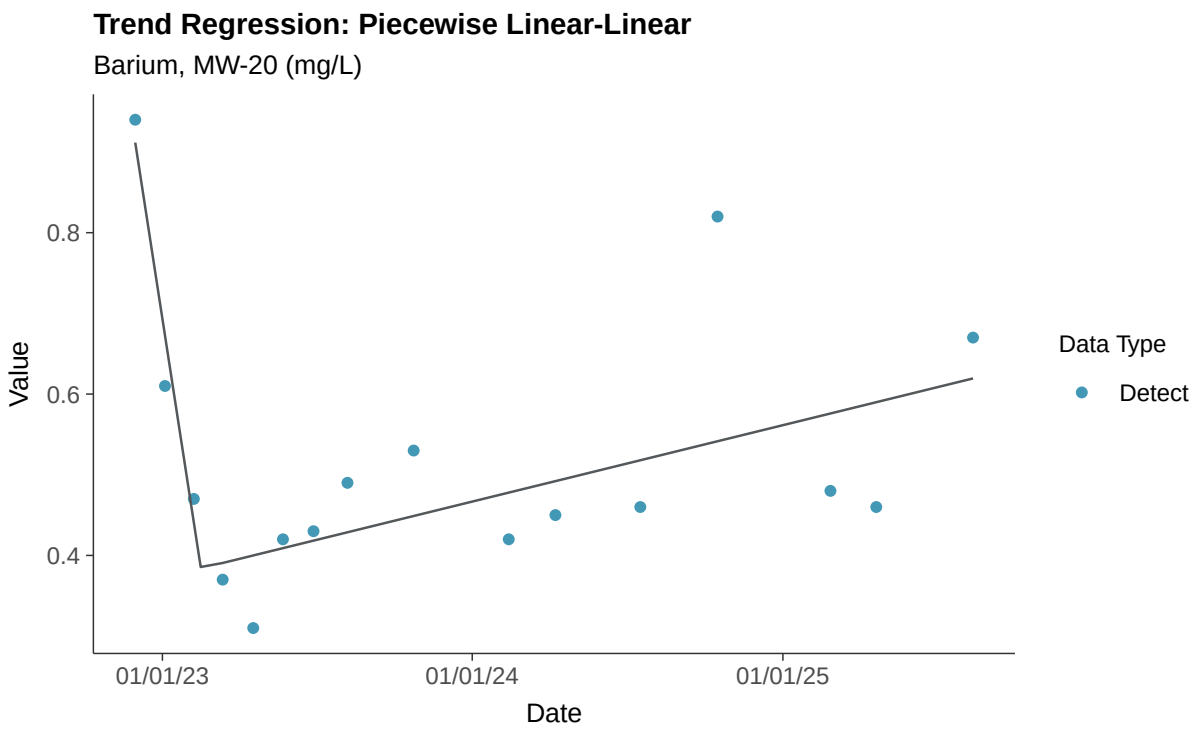
Barium, MW-20 (mg/L)



Trend Regression: Lognormal MLE

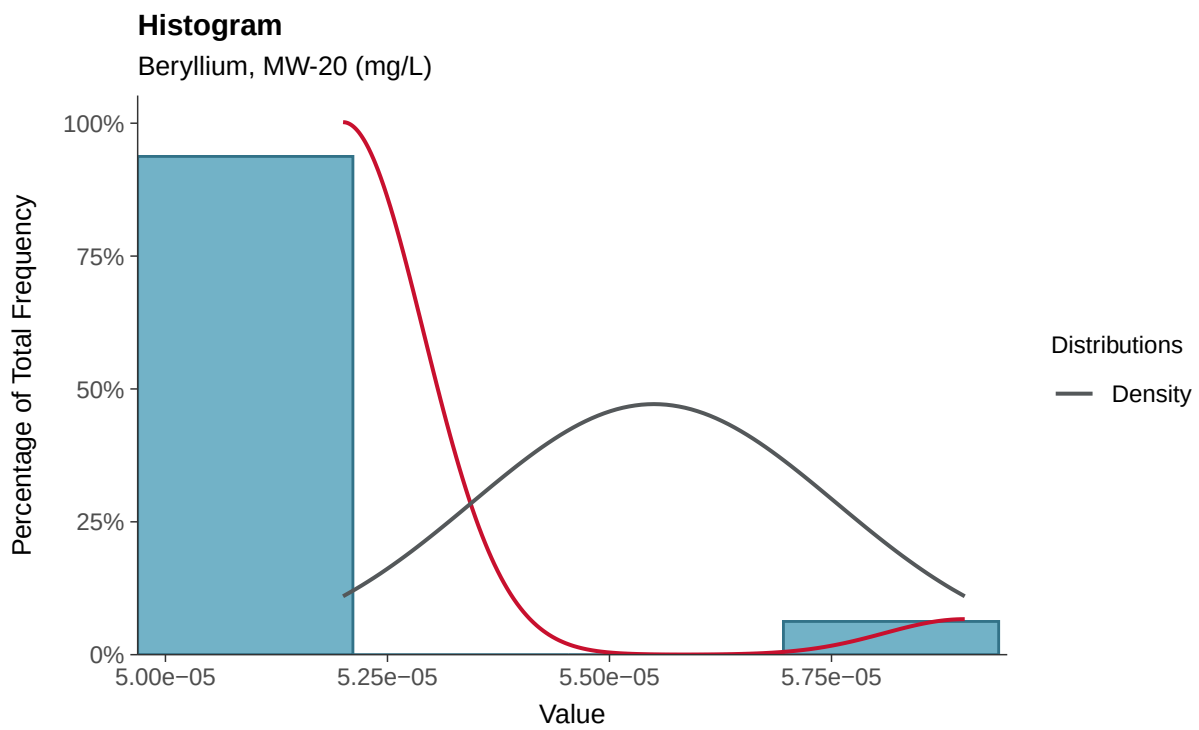
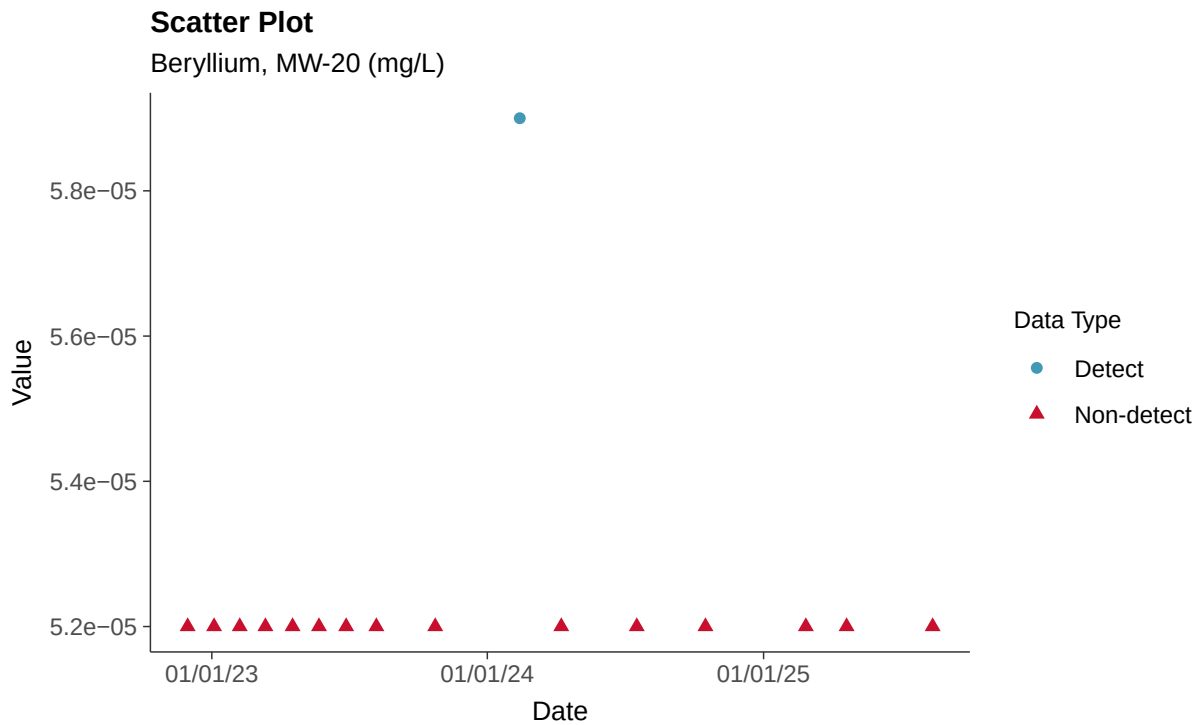
Barium, MW-20 (mg/L)





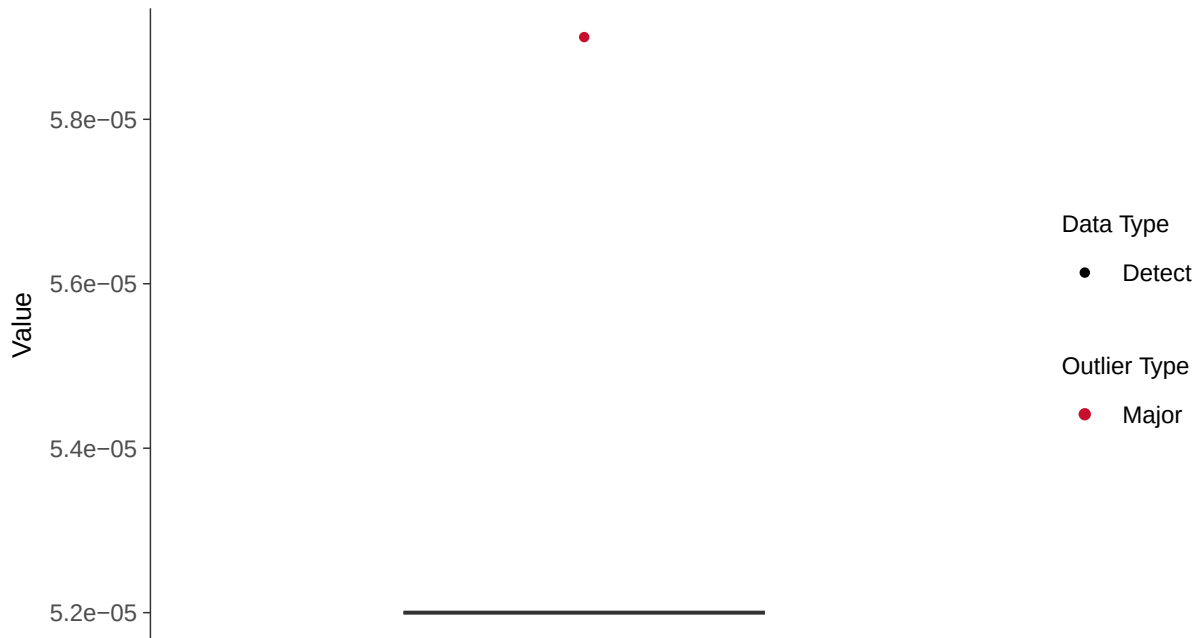
Appendix IV: Beryllium, MW-20

ID: 30_1_4_104



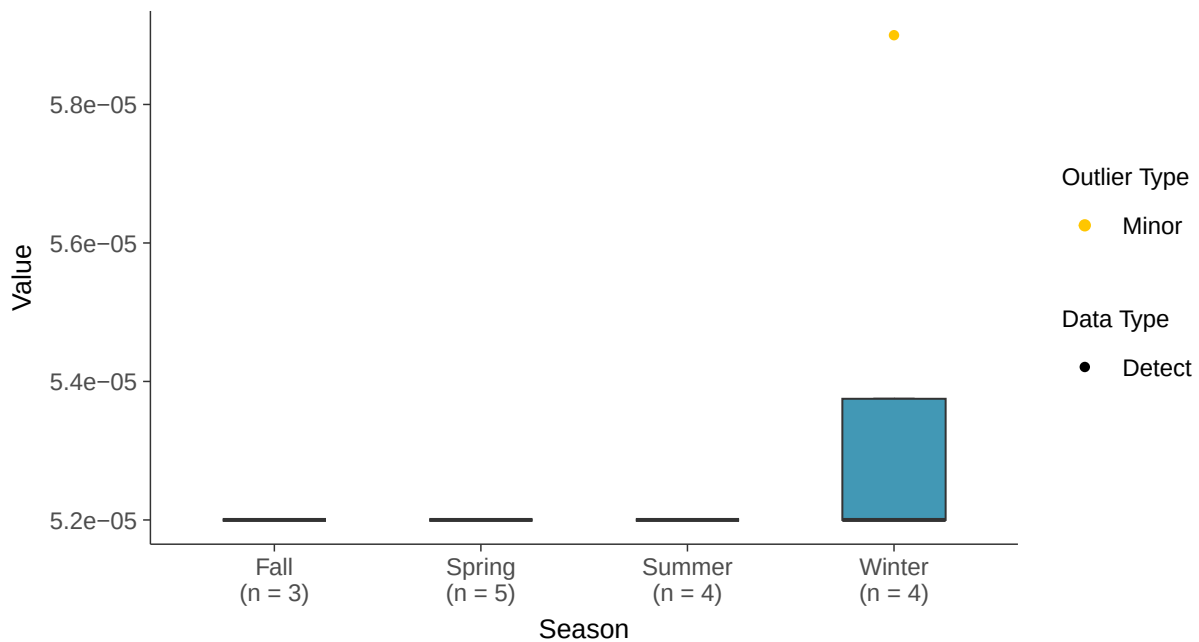
Boxplot

Beryllium, MW-20 (mg/L)

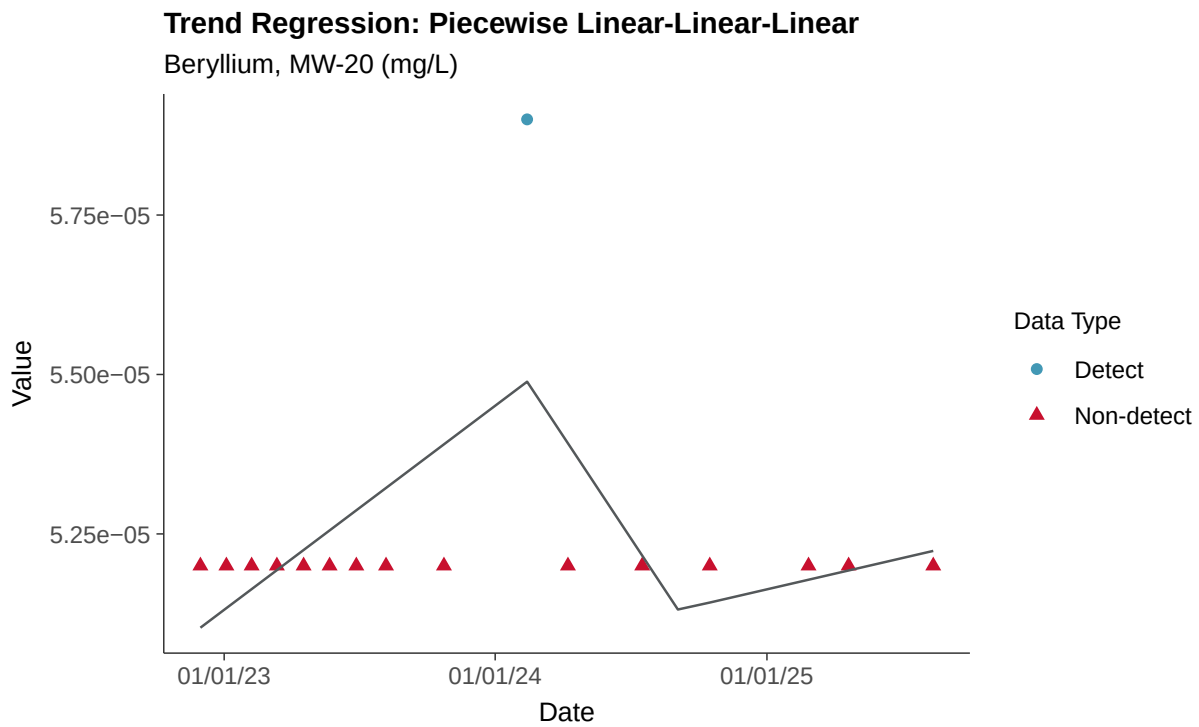


Boxplot by Season

Beryllium, MW-20 (mg/L)

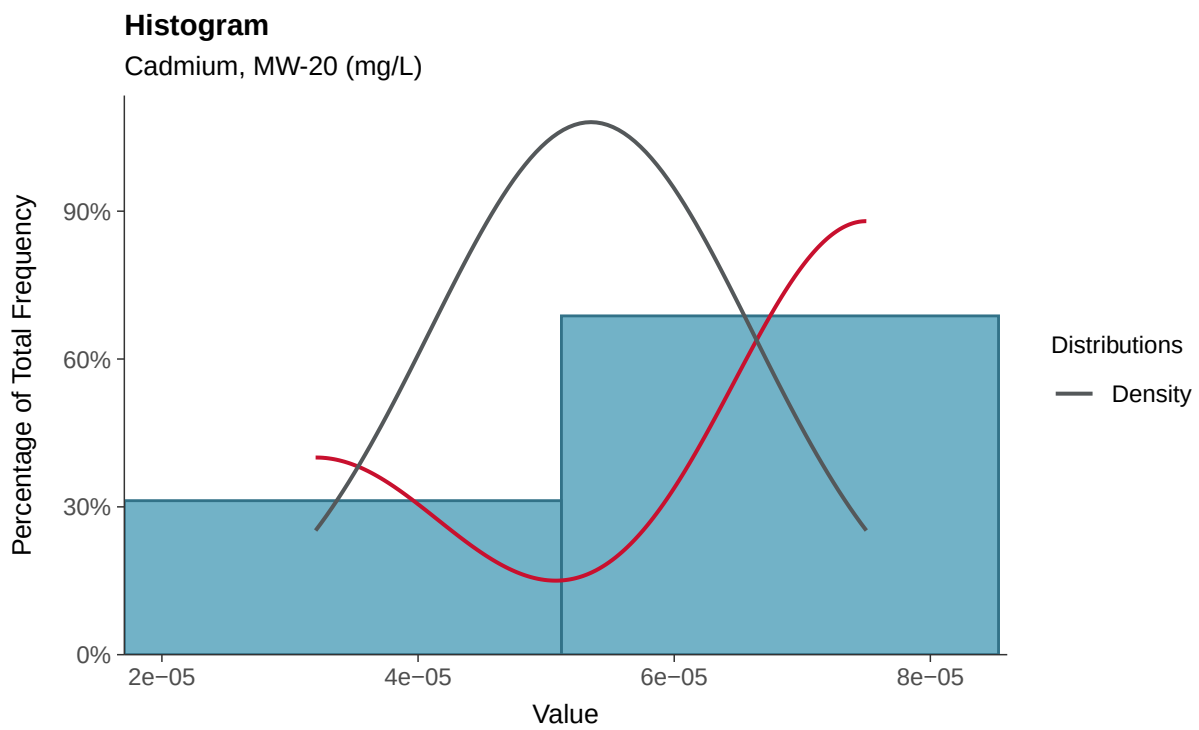
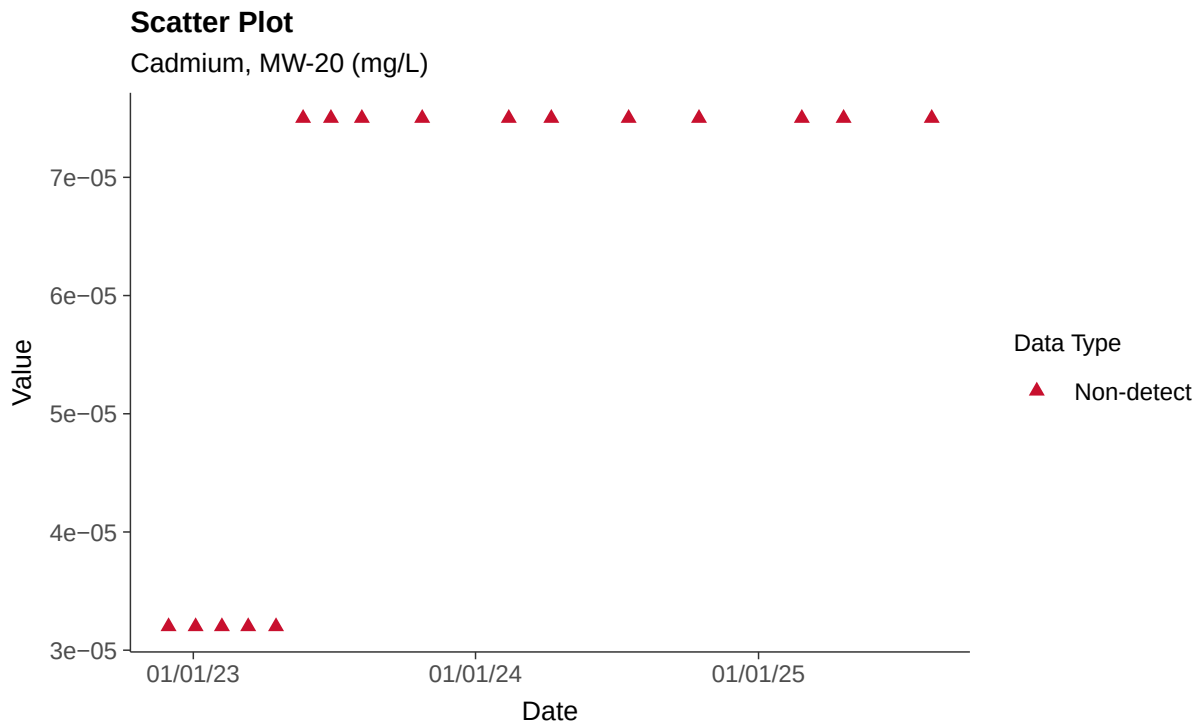


Beryllium, MW-20 (mg/L)



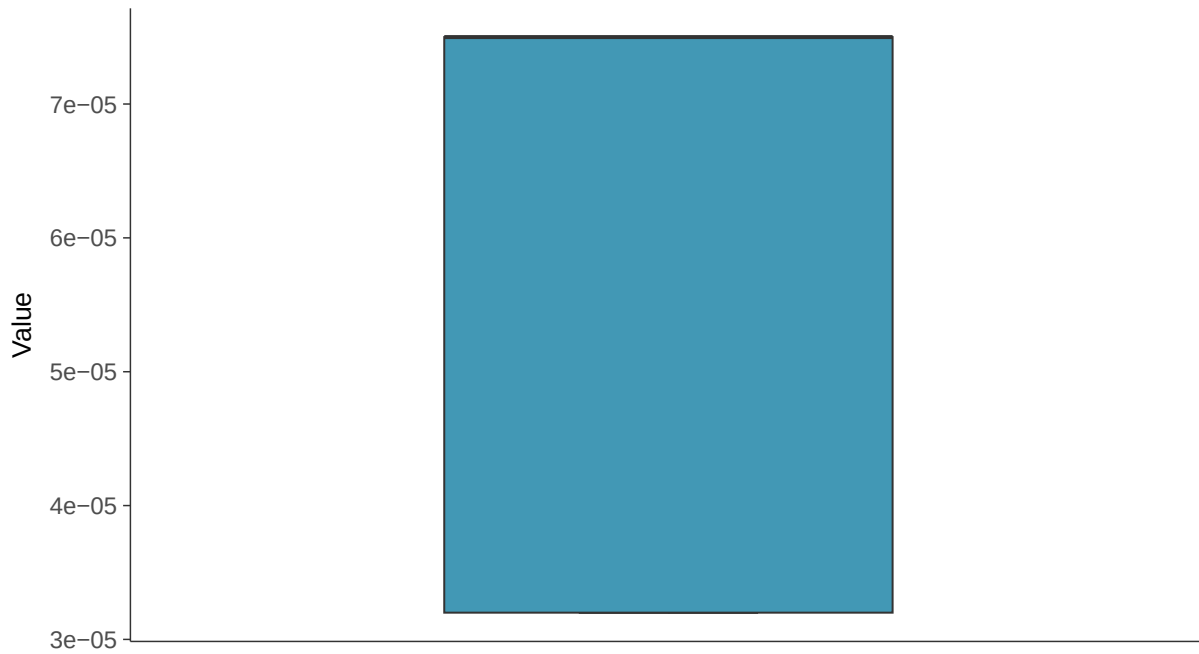
Appendix IV: Cadmium, MW-20

ID: 30_1_4_106



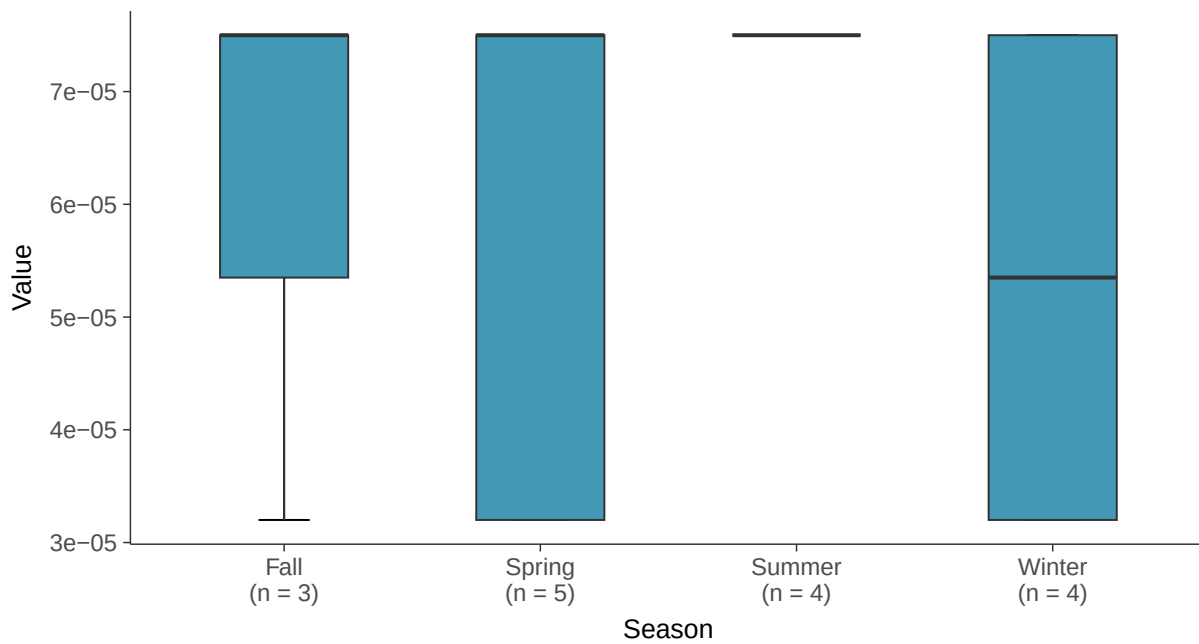
Boxplot

Cadmium, MW-20 (mg/L)



Boxplot by Season

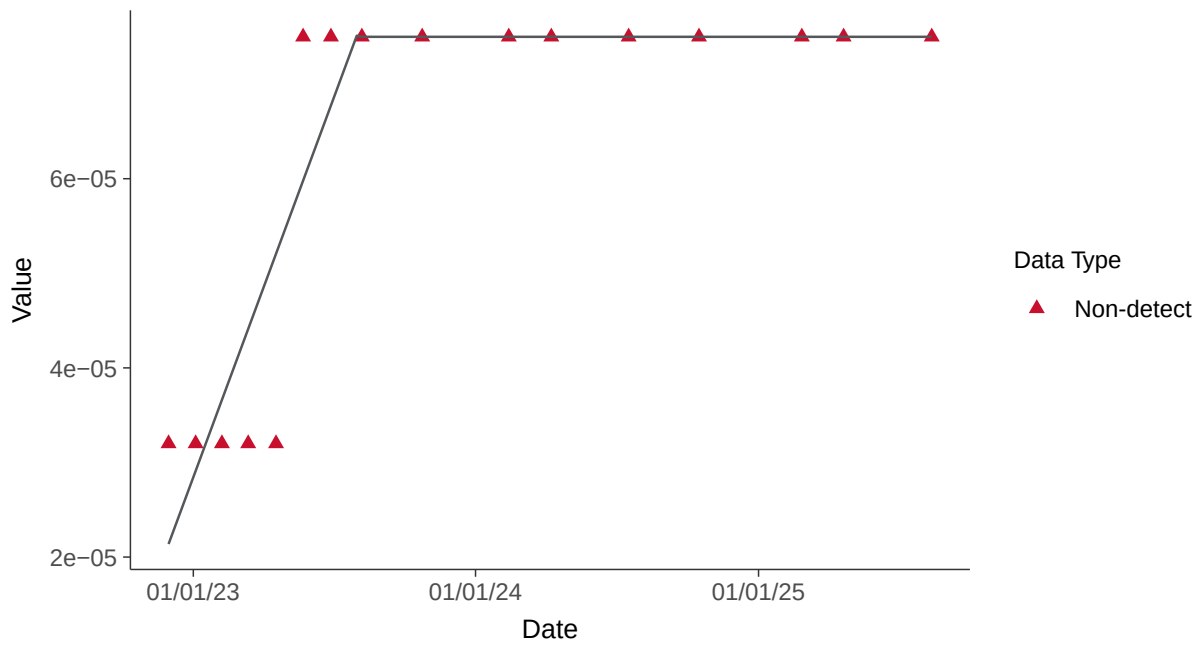
Cadmium, MW-20 (mg/L)





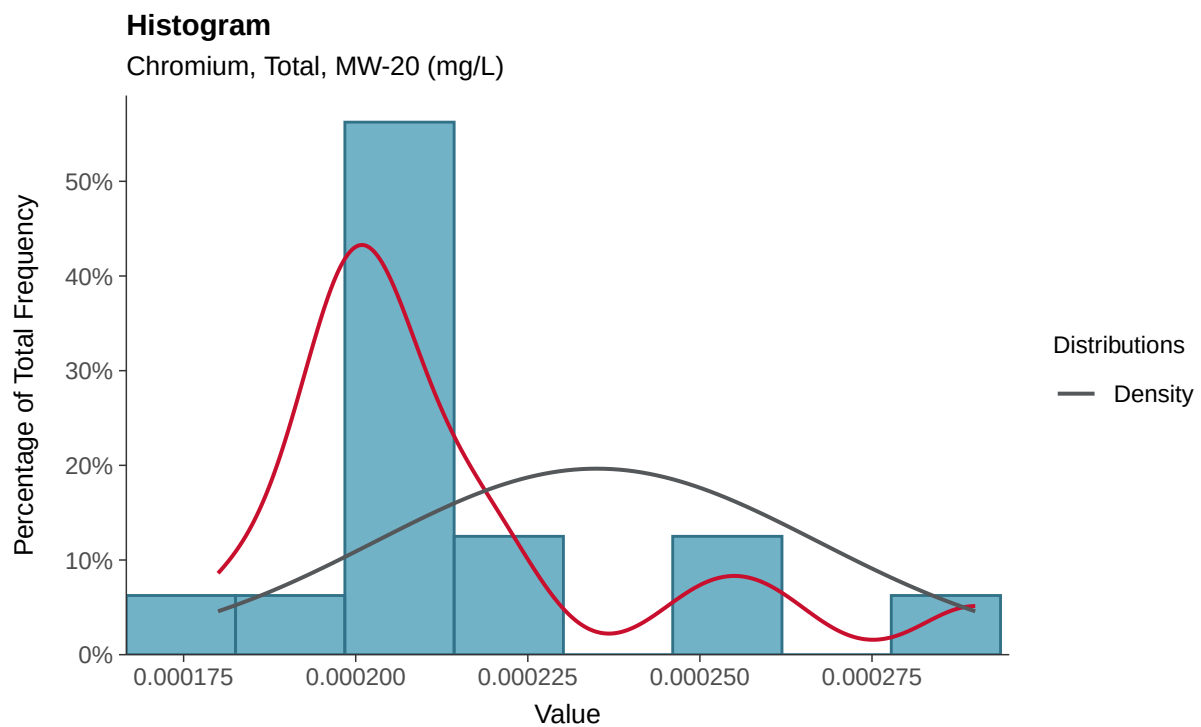
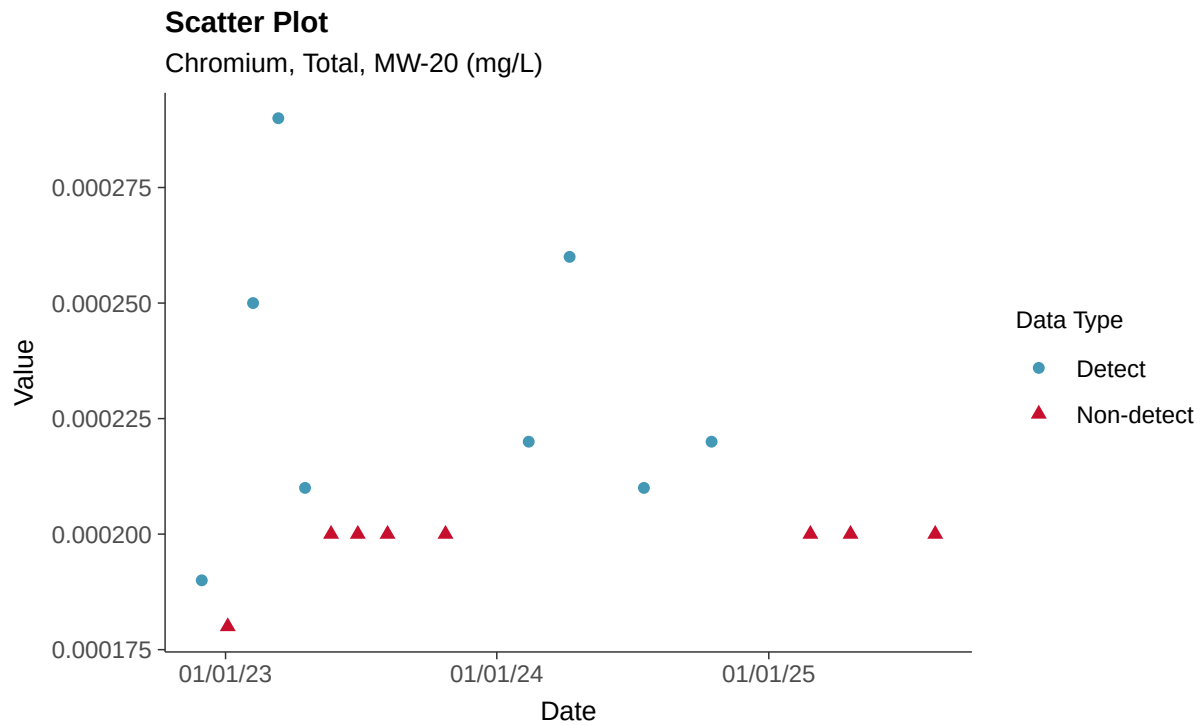
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-20 (mg/L)



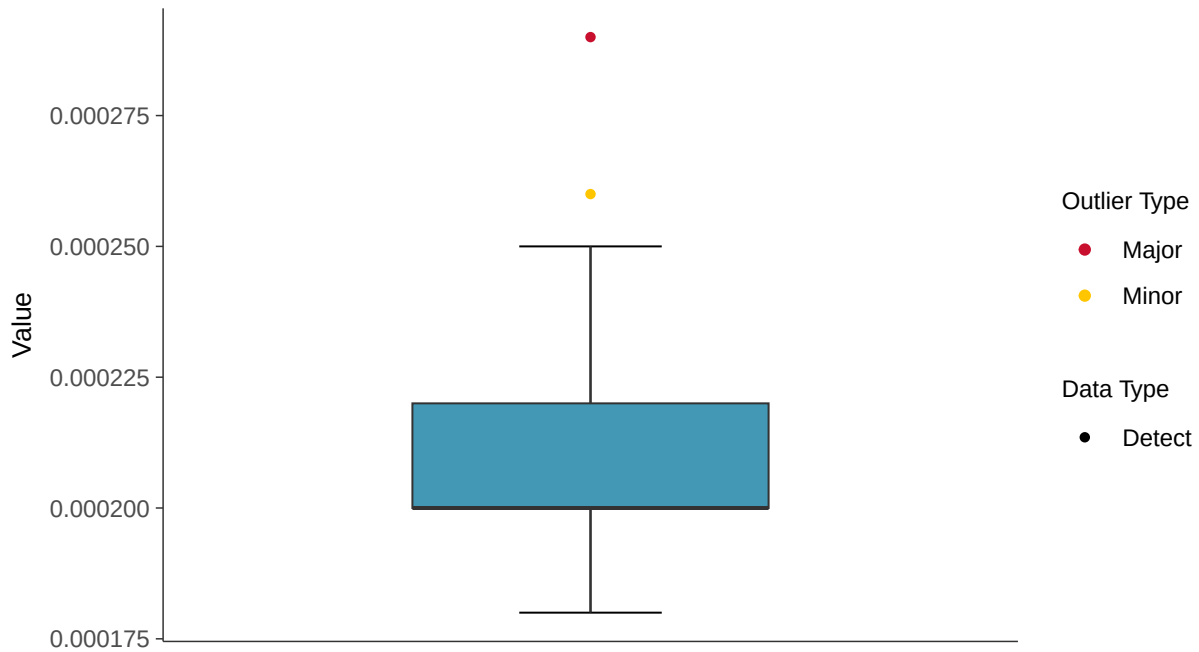
Appendix IV: Chromium, Total, MW-20

ID: 30_1_4_109



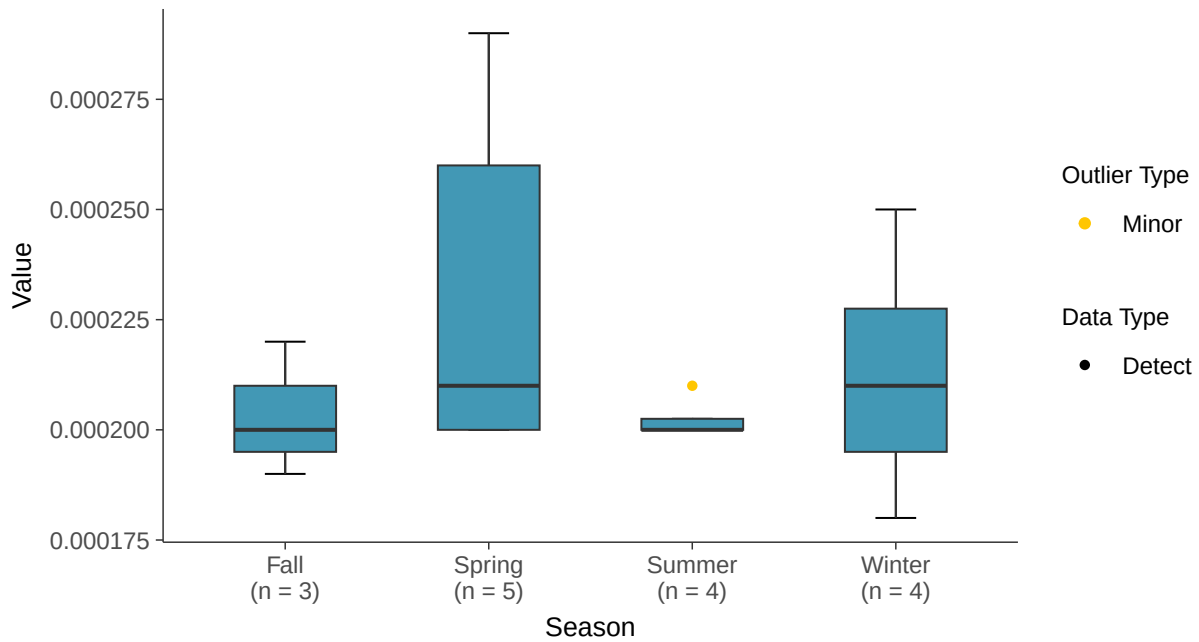
Boxplot

Chromium, Total, MW-20 (mg/L)



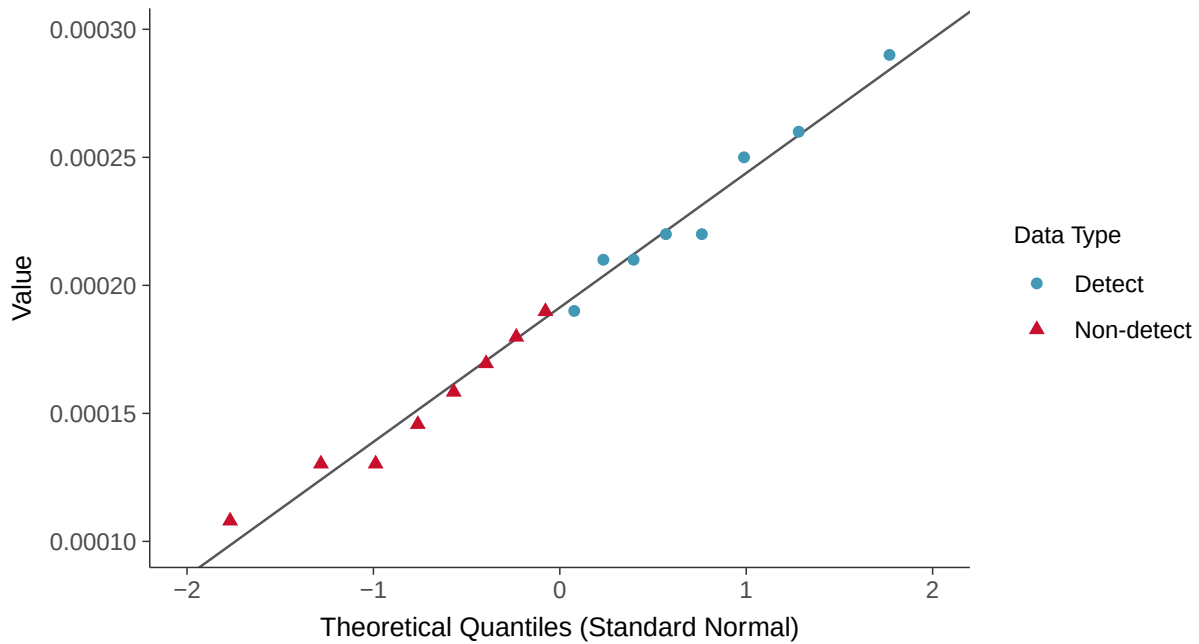
Boxplot by Season

Chromium, Total, MW-20 (mg/L)



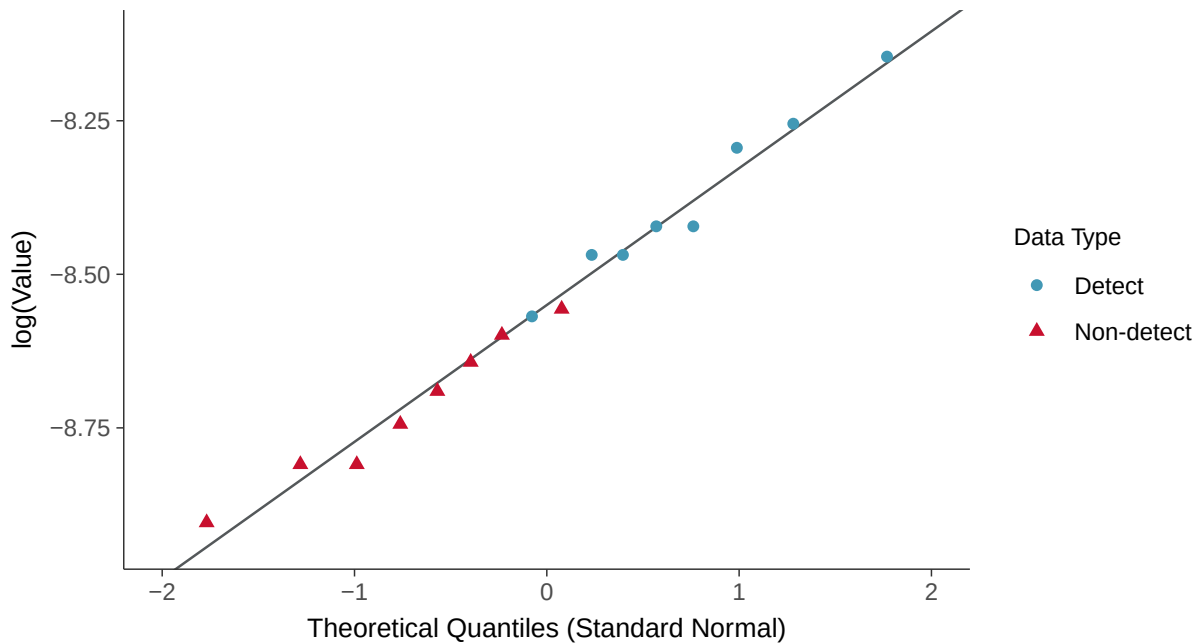
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-20 (mg/L)



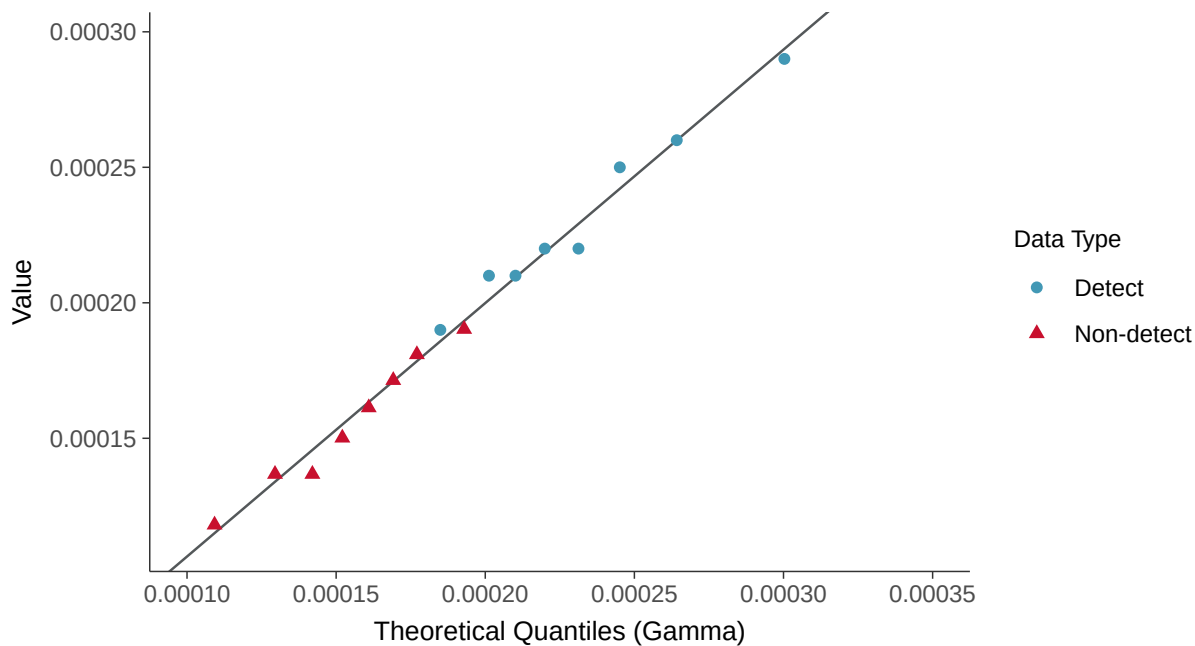
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-20 (mg/L)



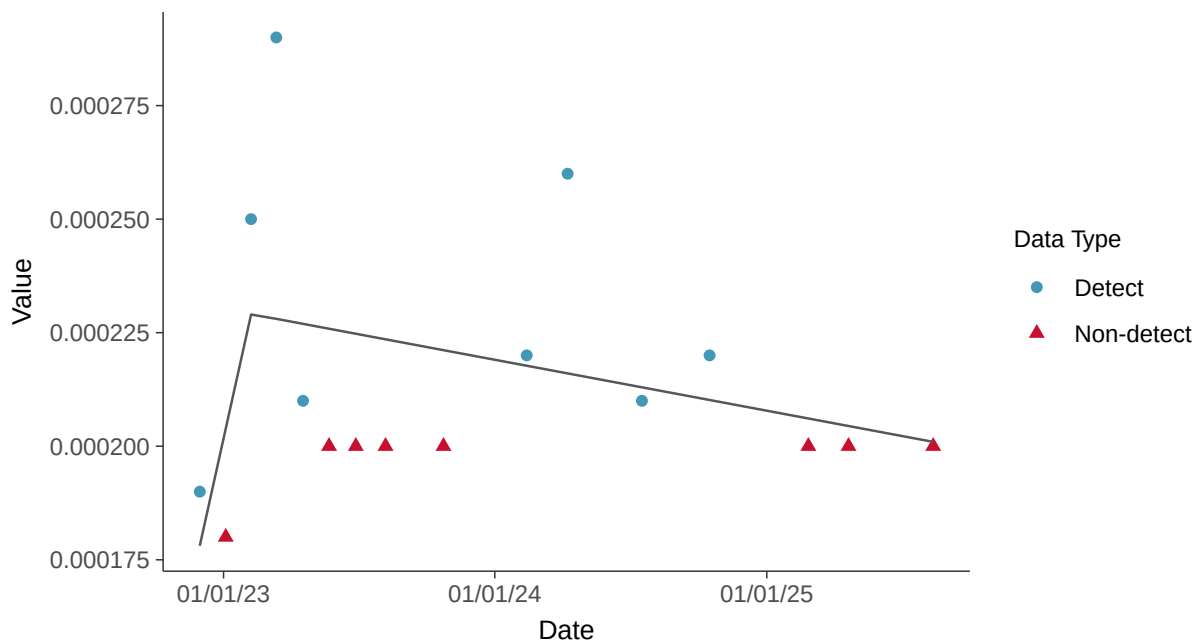
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-20 (mg/L)



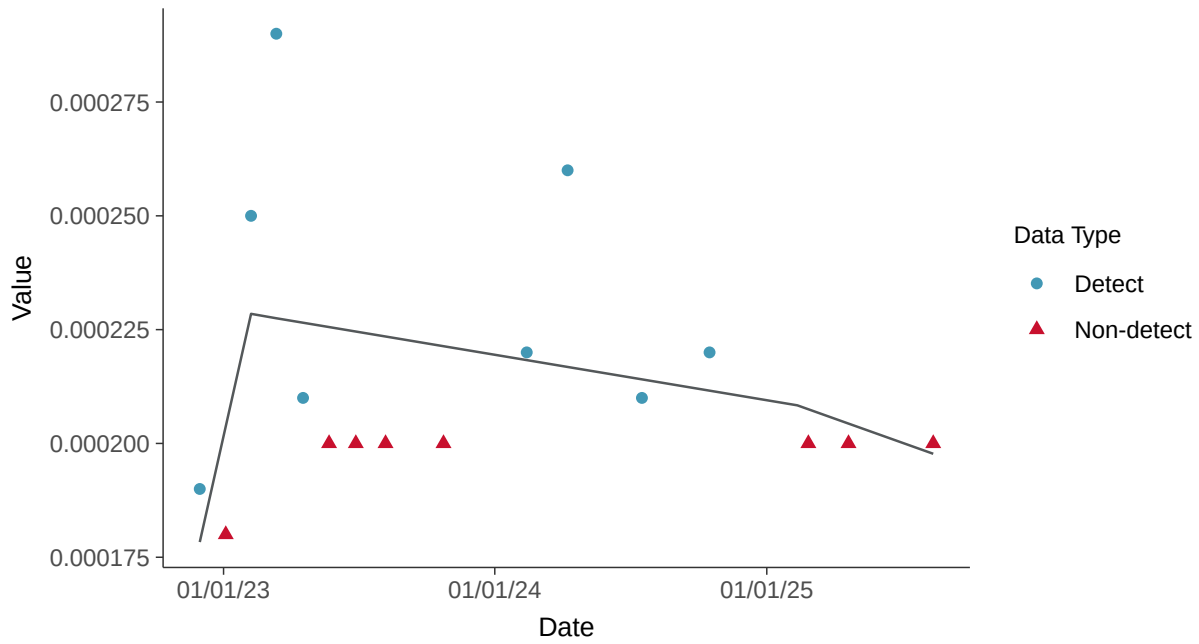
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-20 (mg/L)



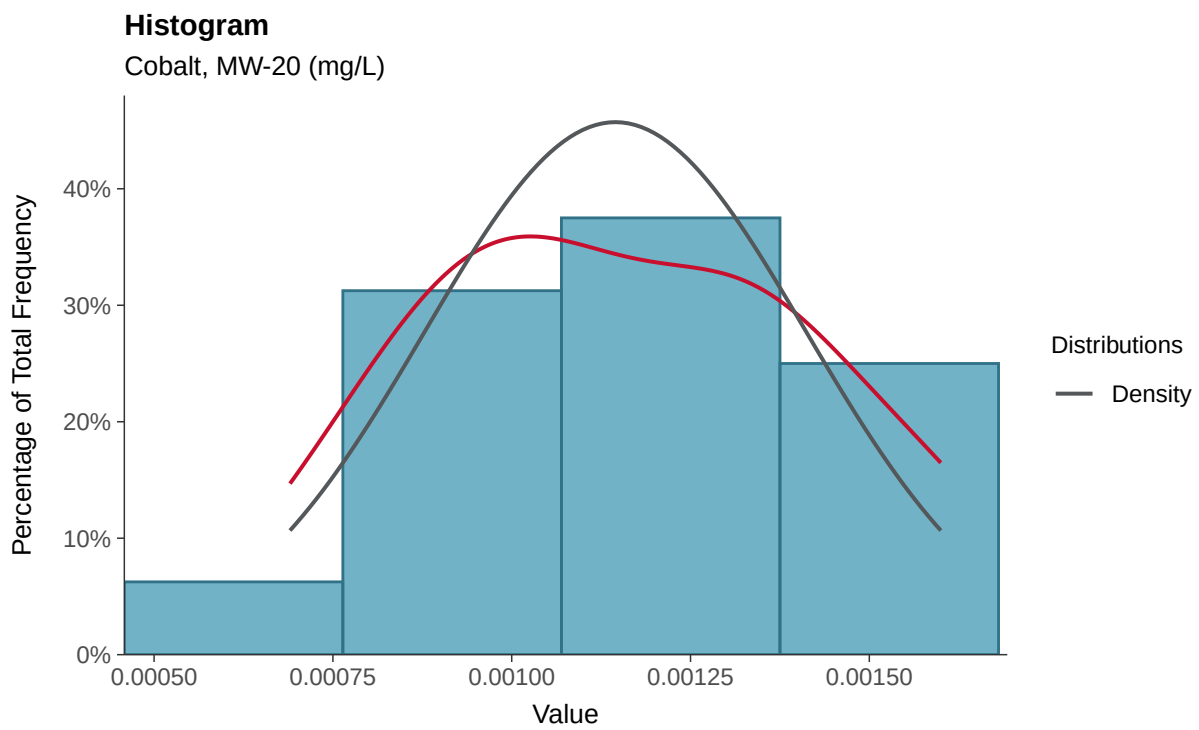
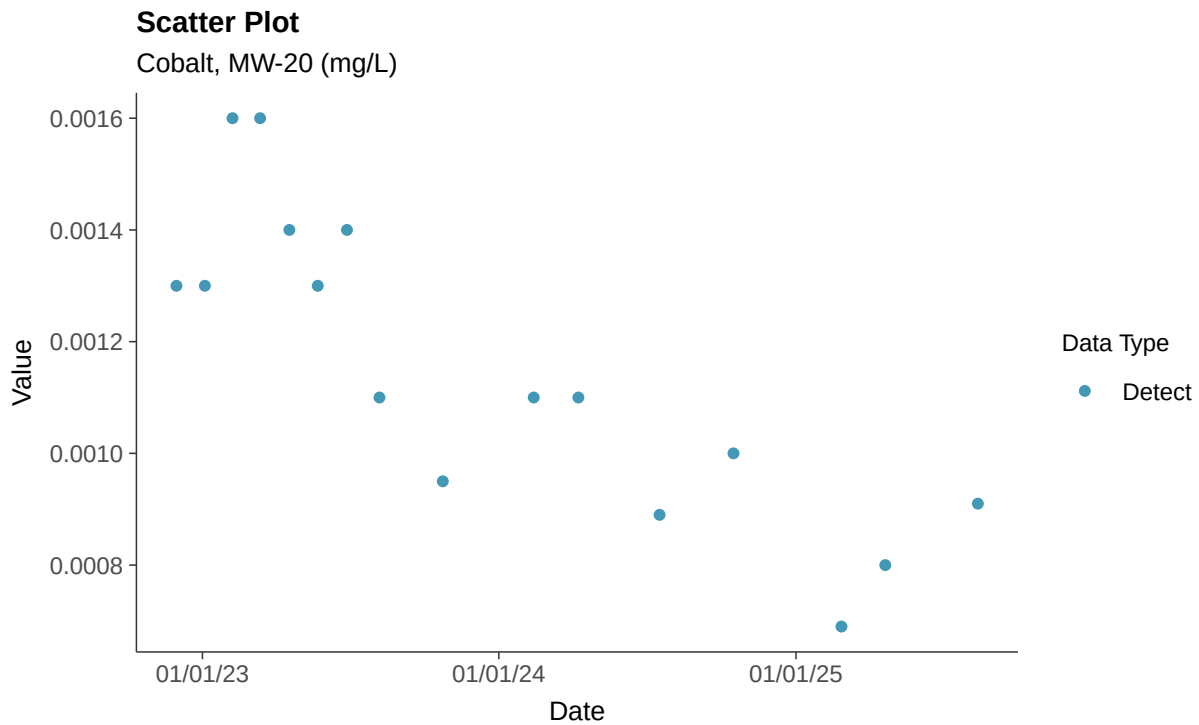


Trend Regression: Piecewise Linear-Linear-Linear
Chromium, Total, MW-20 (mg/L)



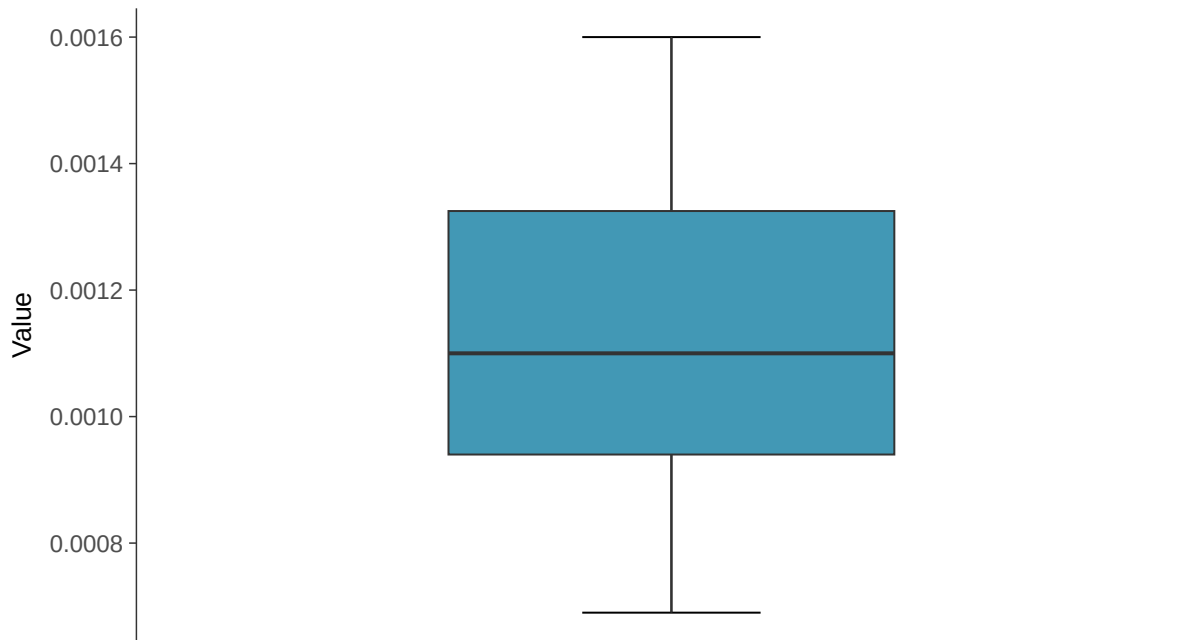
Appendix IV: Cobalt, MW-20

ID: 30_1_4_110



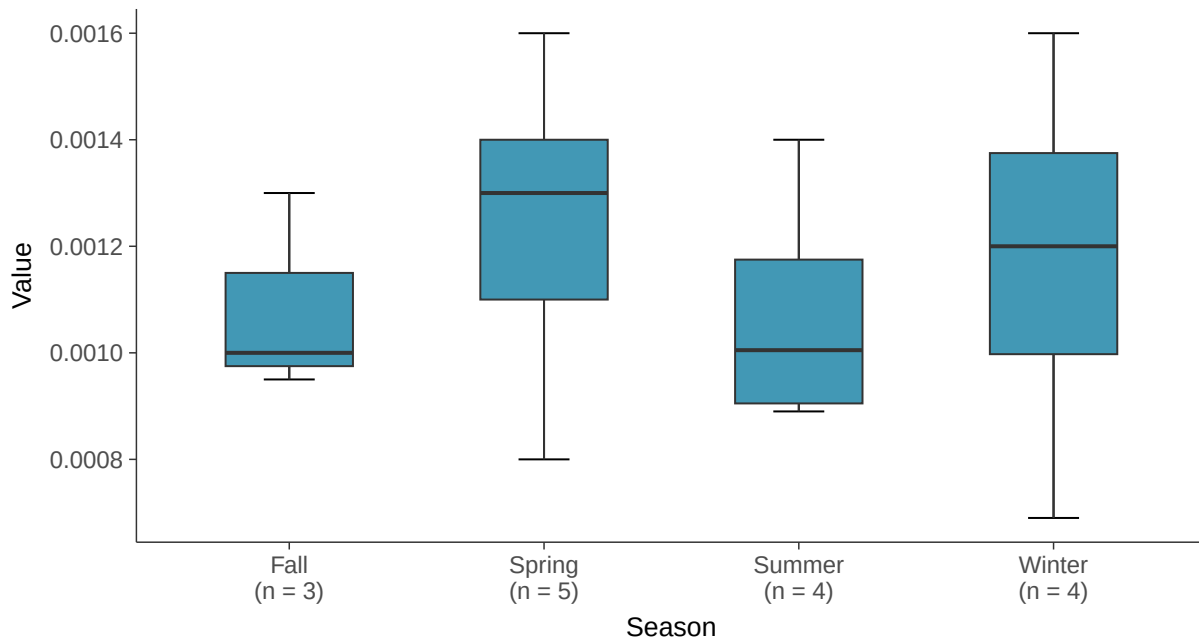
Boxplot

Cobalt, MW-20 (mg/L)

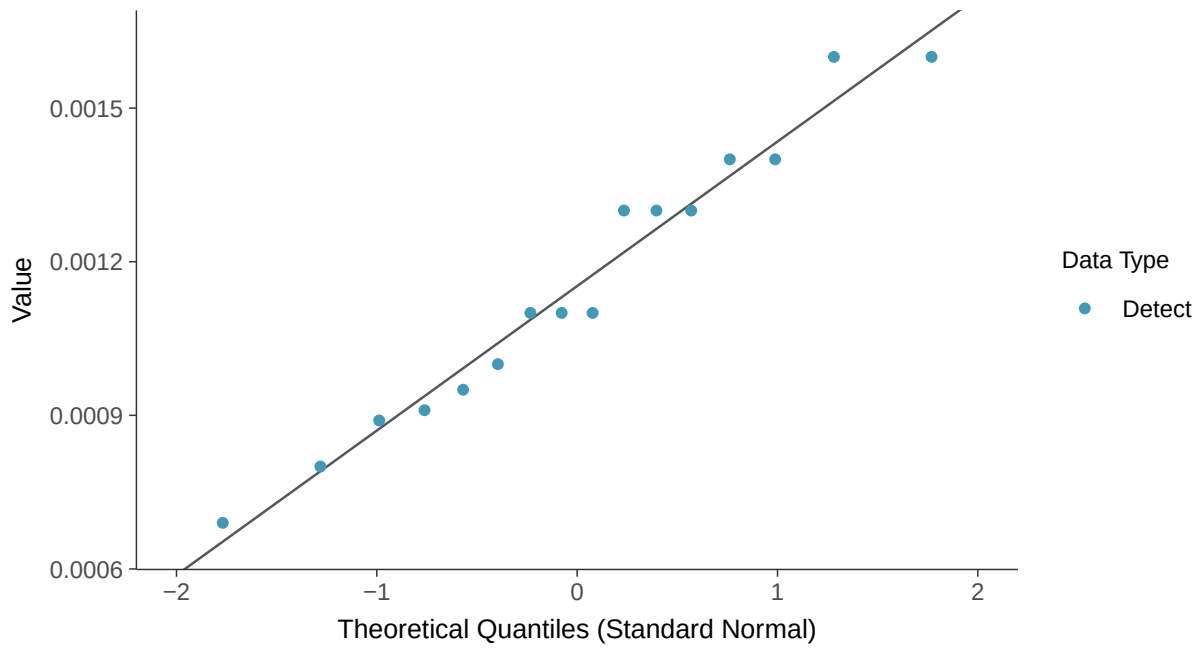


Boxplot by Season

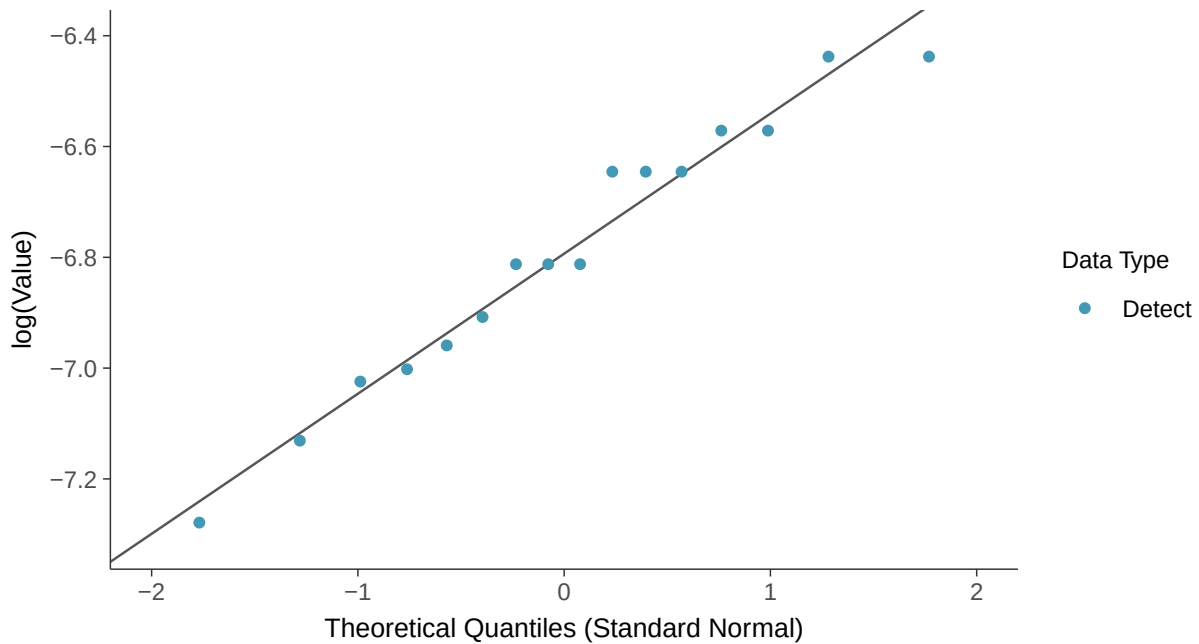
Cobalt, MW-20 (mg/L)

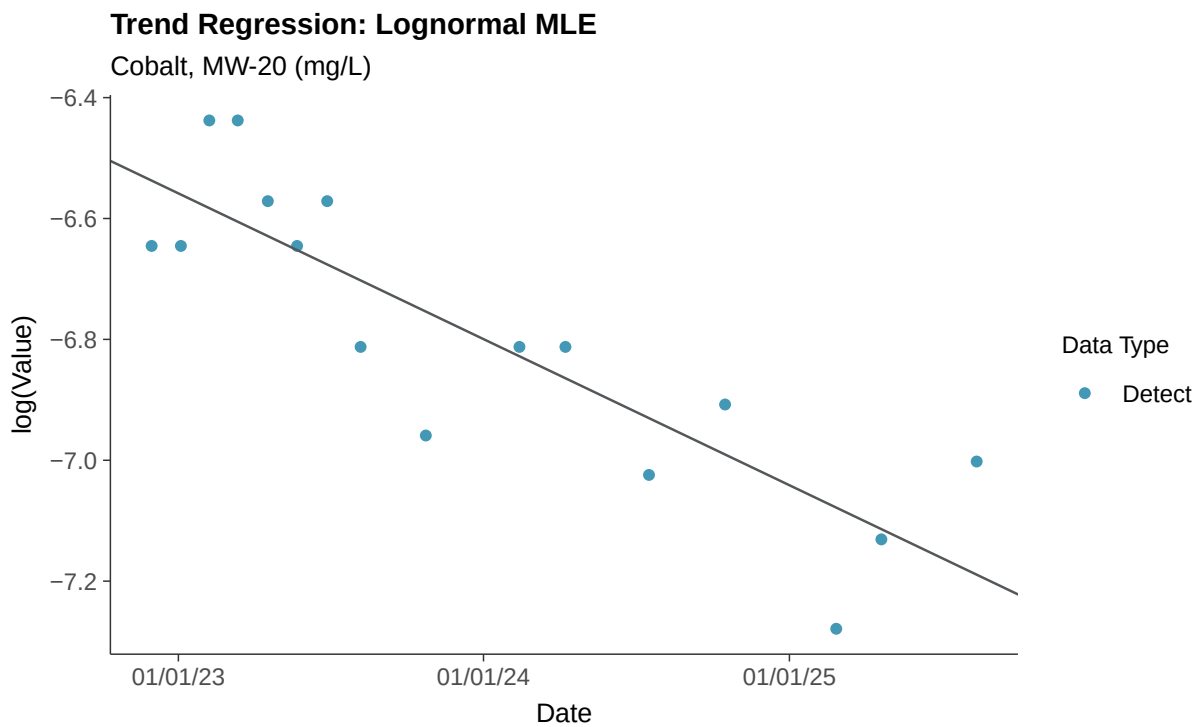
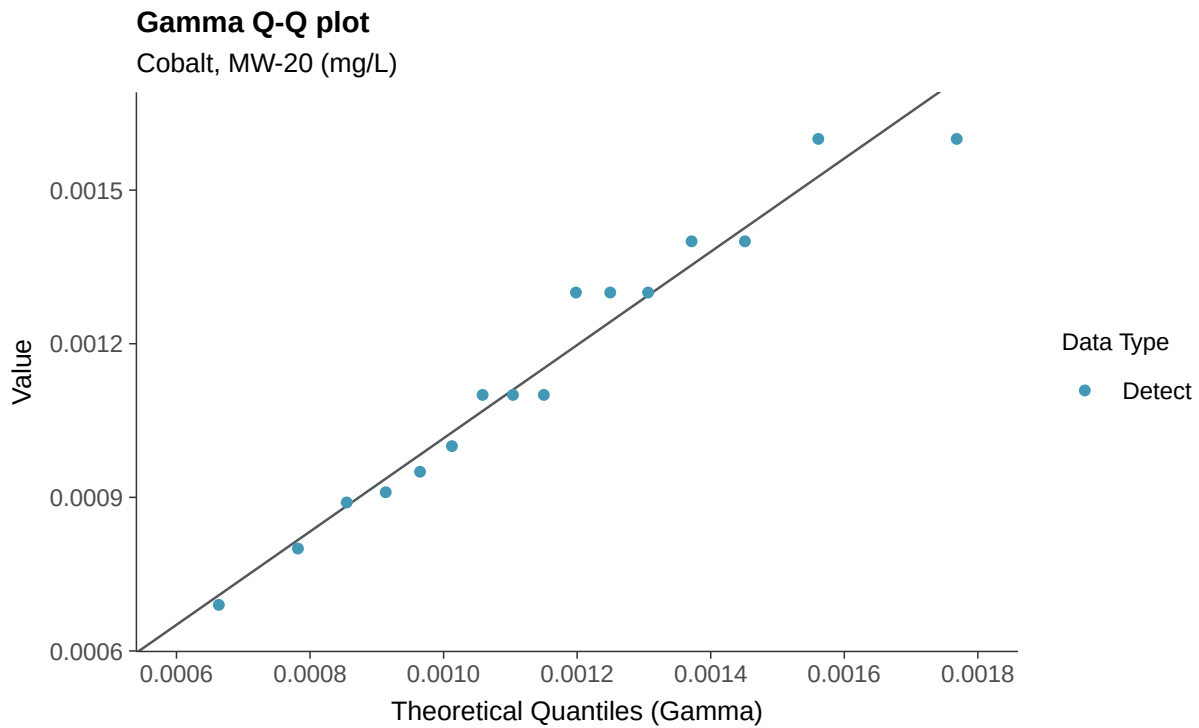


Normal Q-Q plot
Cobalt, MW-20 (mg/L)



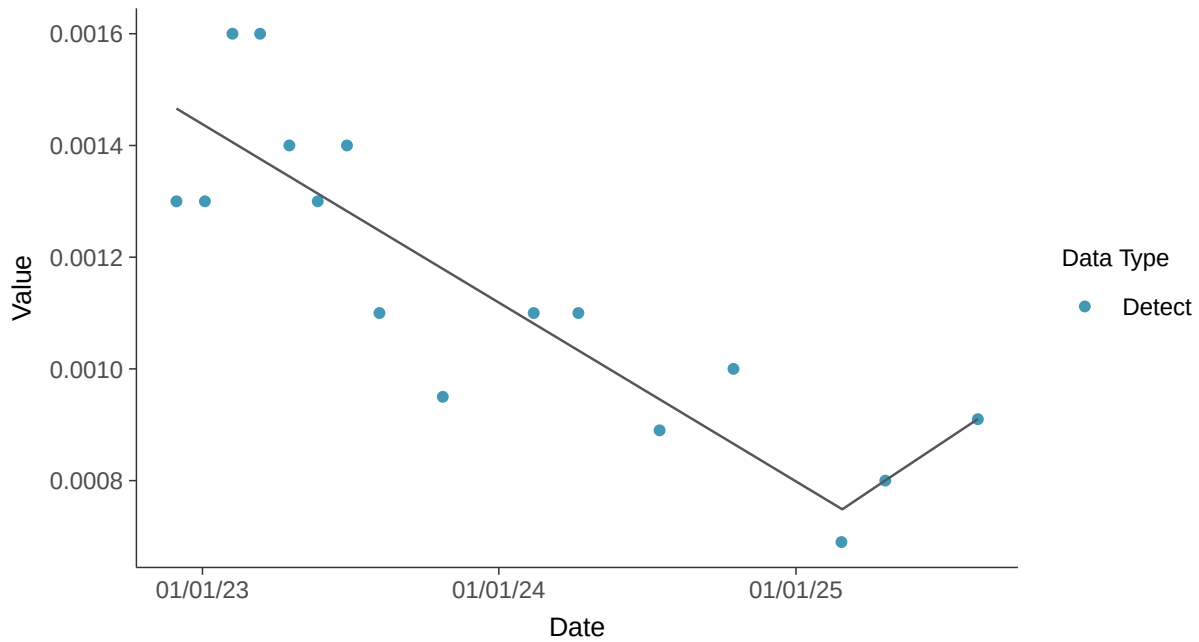
Lognormal Q-Q plot
Cobalt, MW-20 (mg/L)





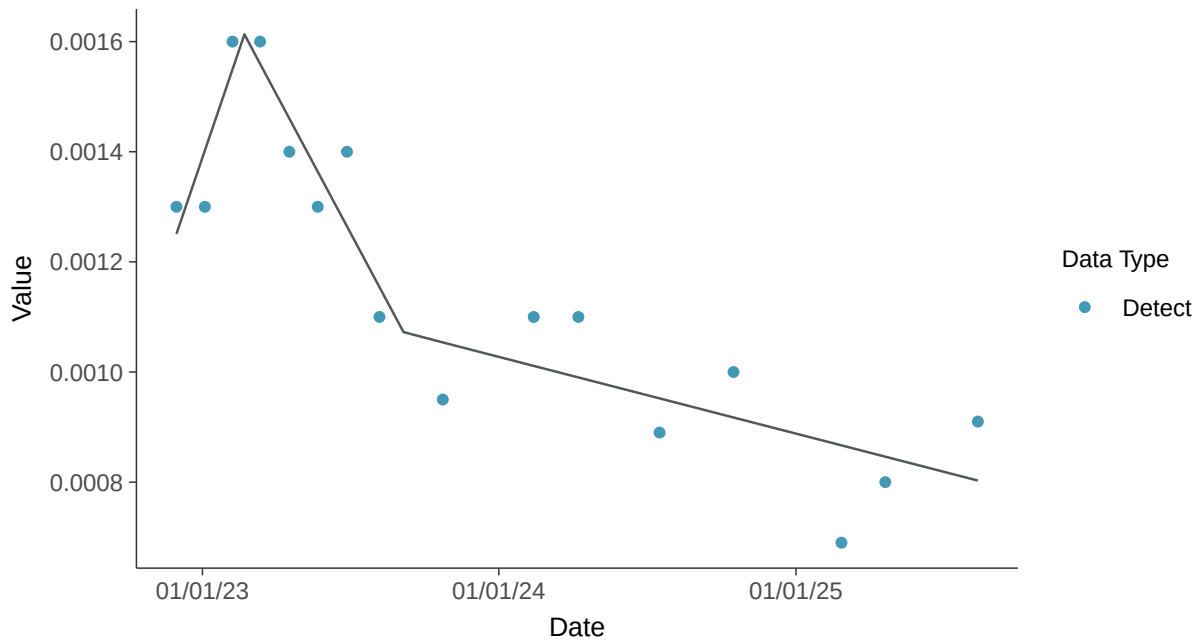
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-20 (mg/L)

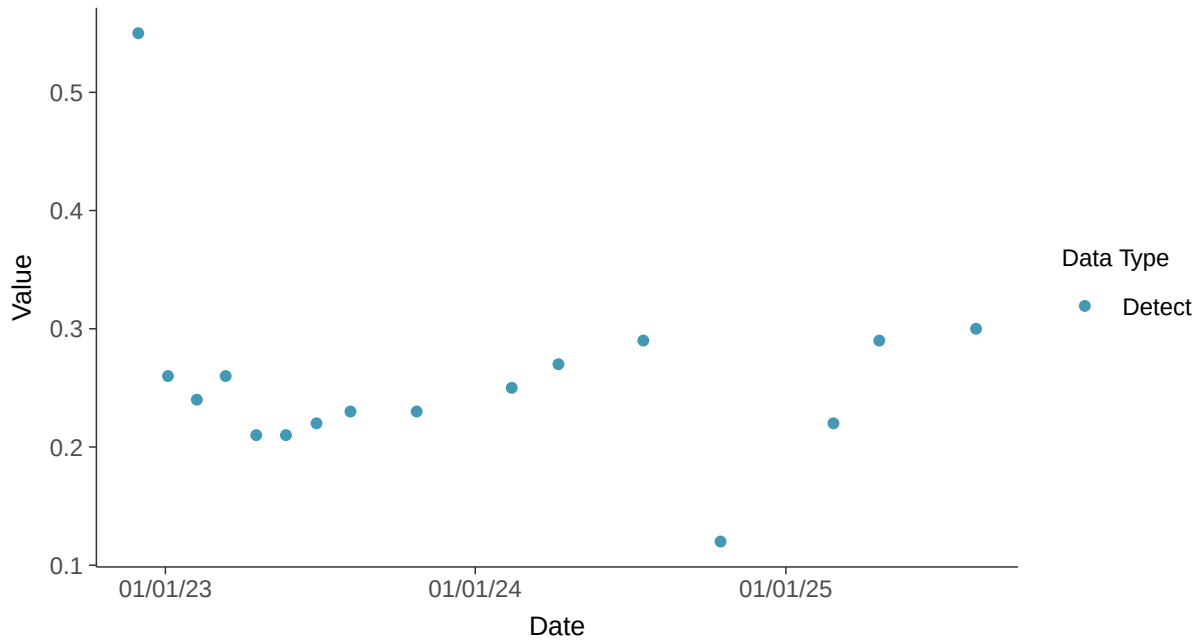


Appendix IV: Fluoride (App IV), MW-20

ID: 30_1_4_113

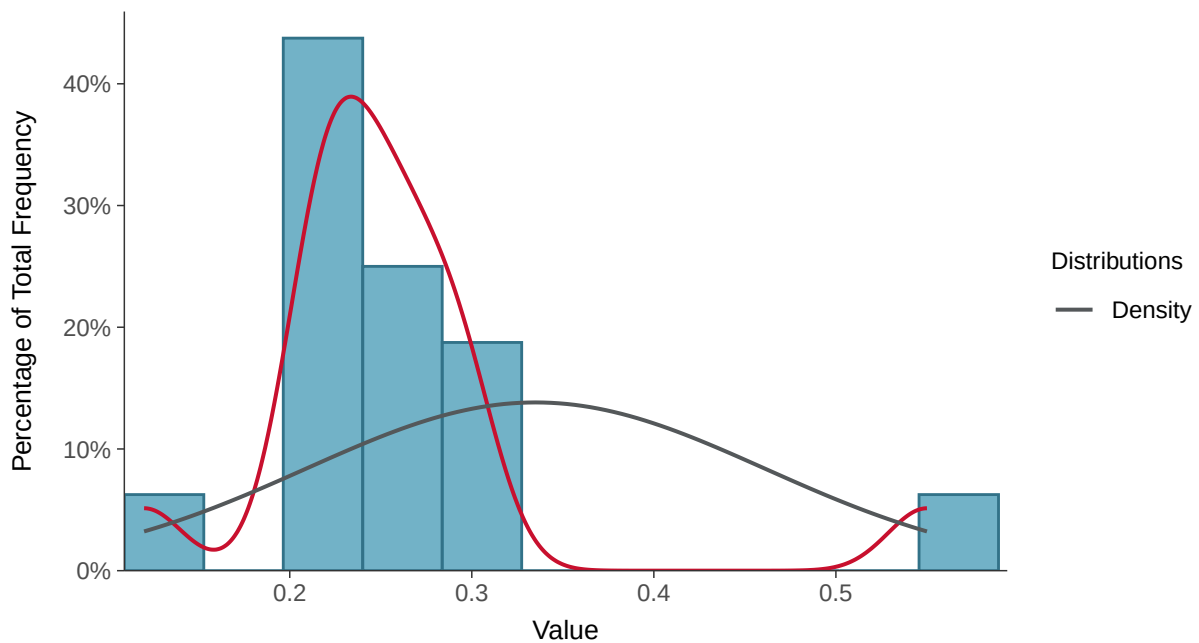
Scatter Plot

Fluoride (App IV), MW-20 (mg/L)



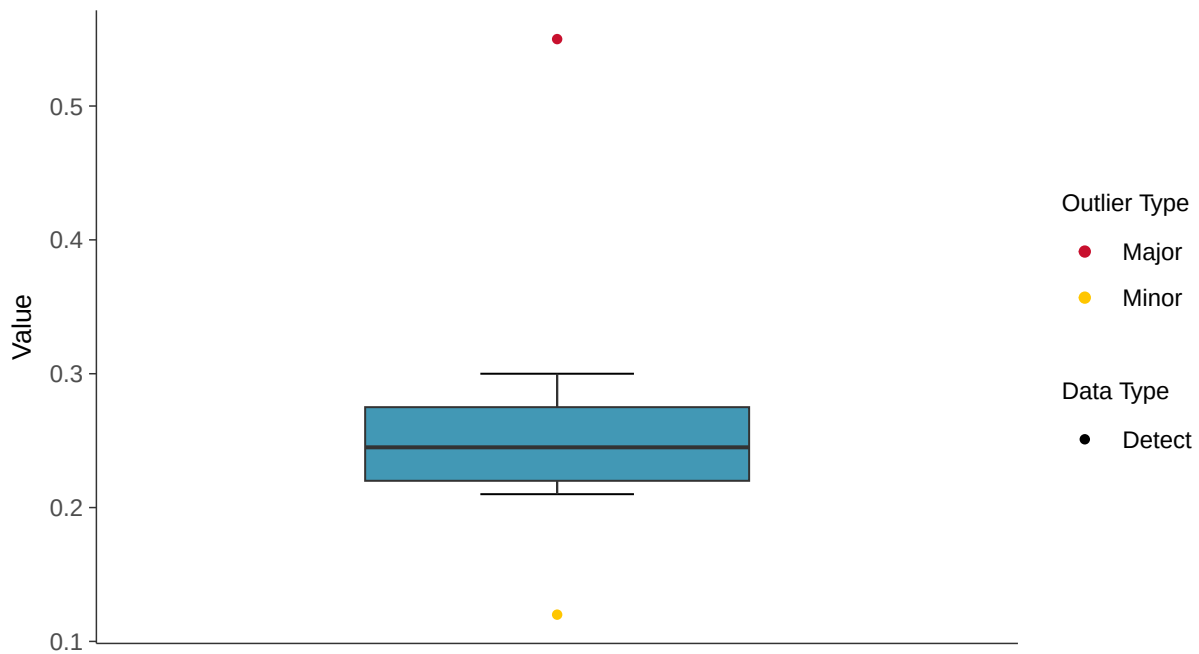
Histogram

Fluoride (App IV), MW-20 (mg/L)



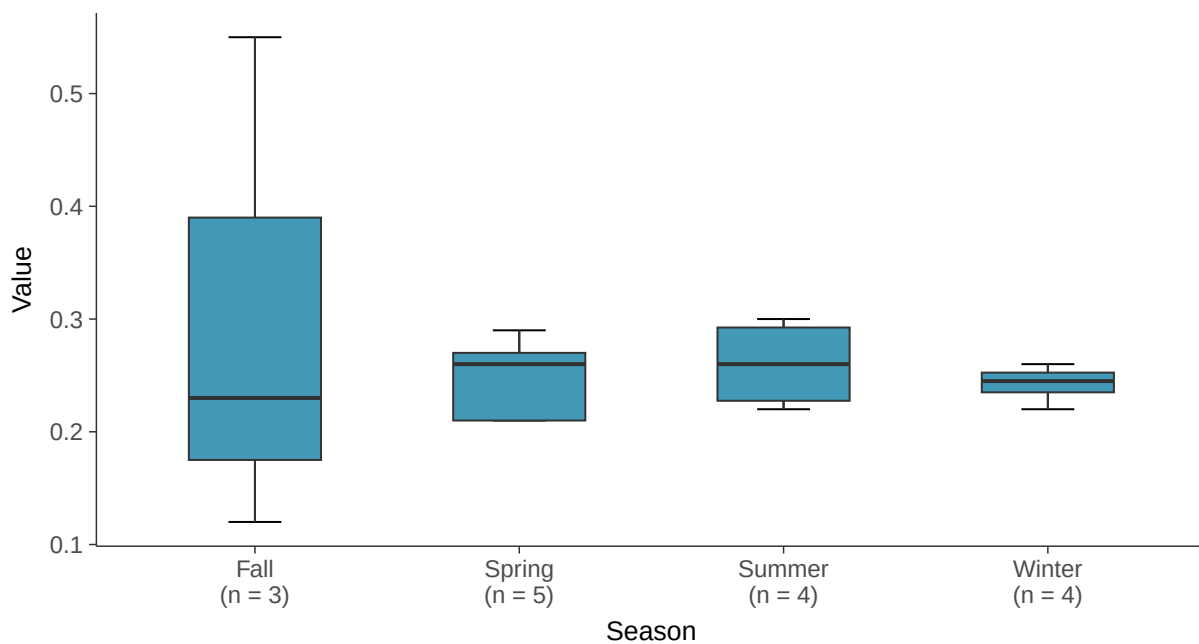
Boxplot

Fluoride (App IV), MW-20 (mg/L)



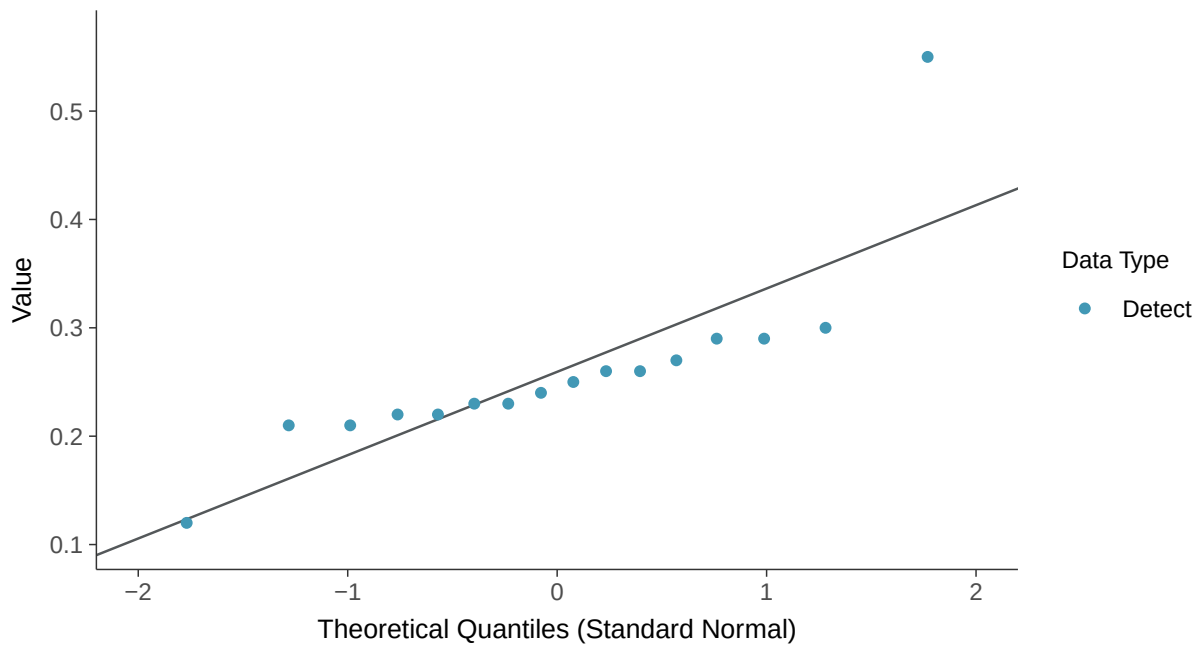
Boxplot by Season

Fluoride (App IV), MW-20 (mg/L)



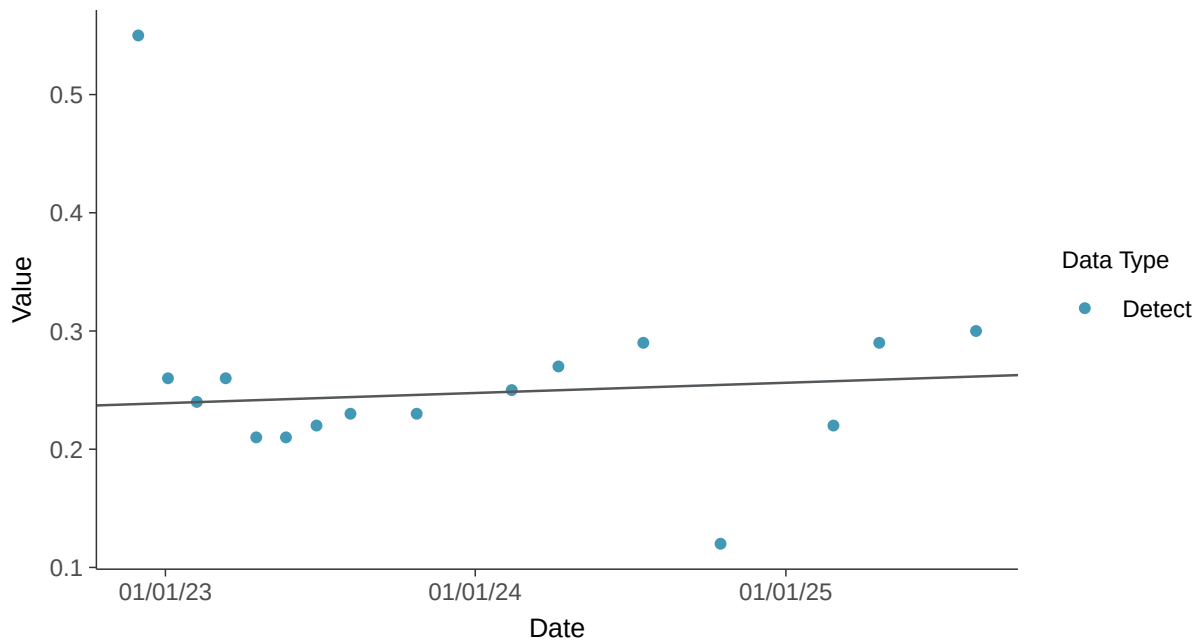
Normal Q-Q plot

Fluoride (App IV), MW-20 (mg/L)



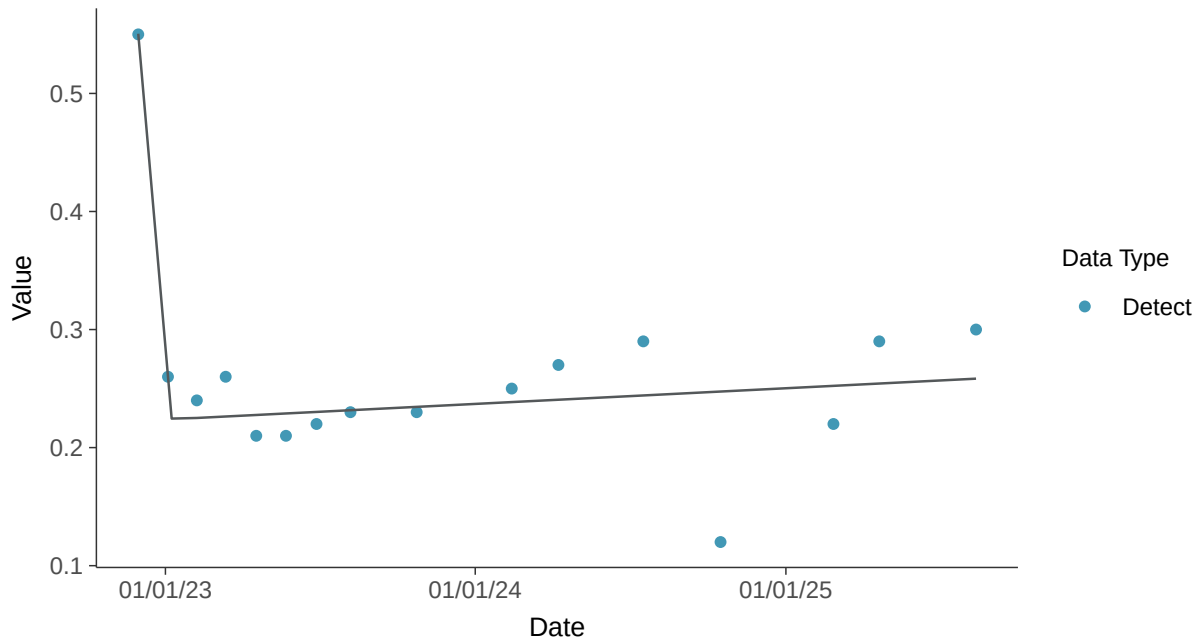
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-20 (mg/L)



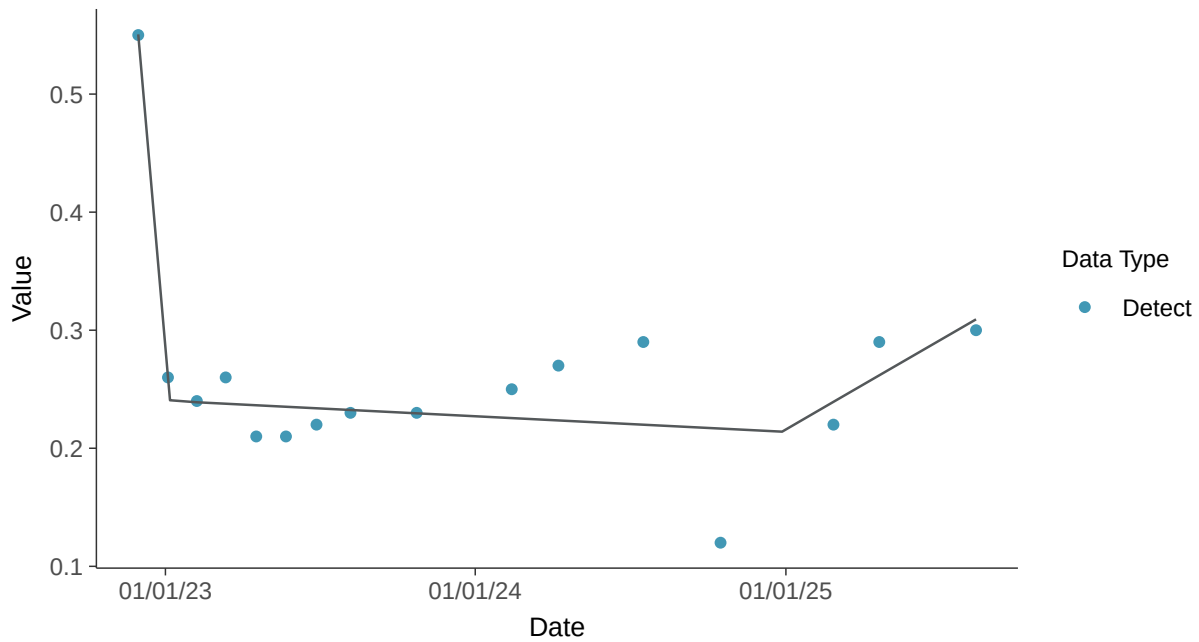
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-20 (mg/L)



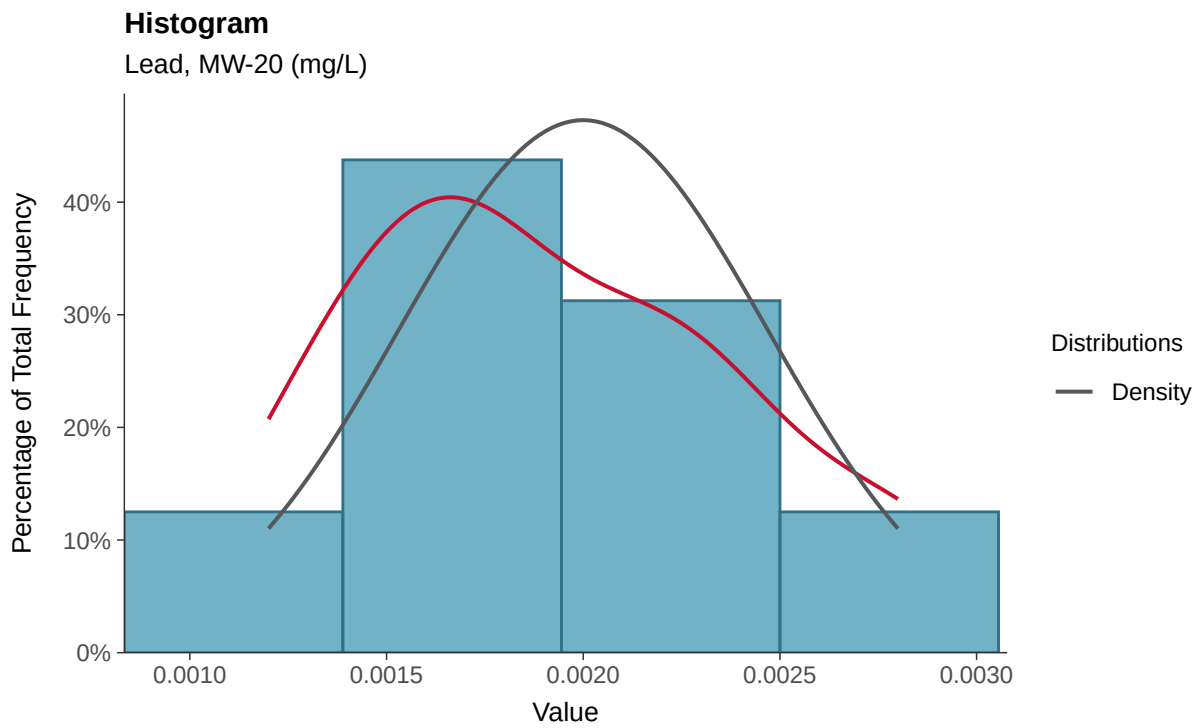
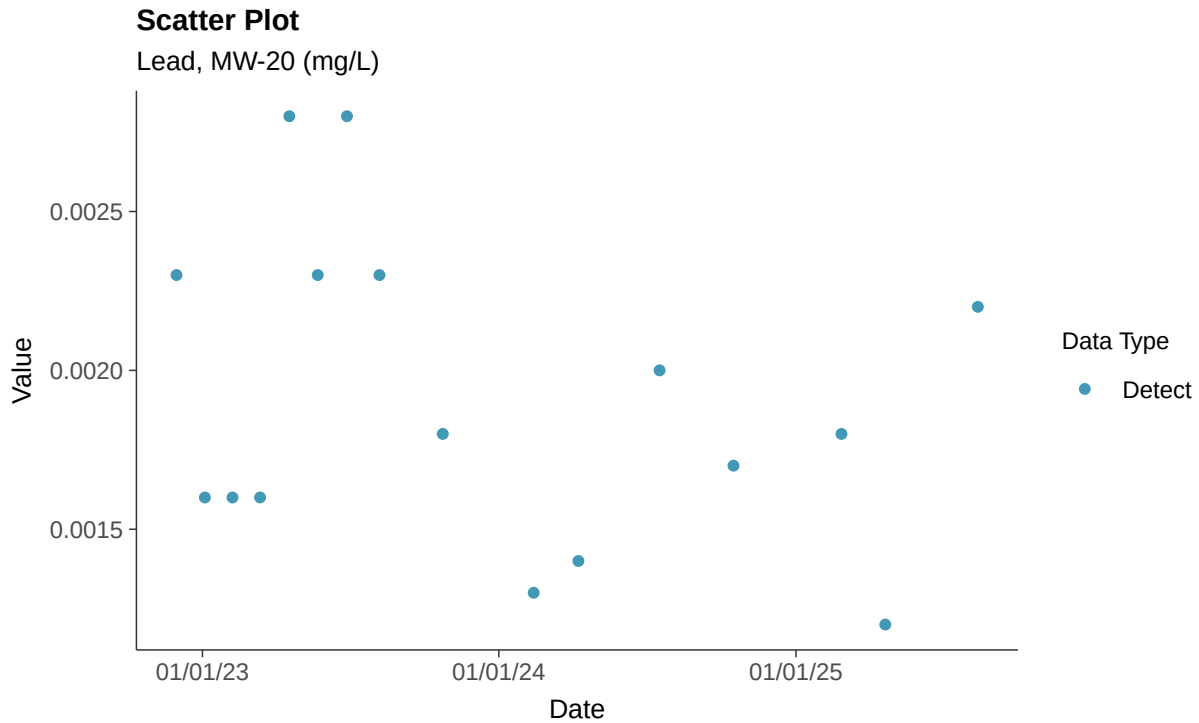
Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-20 (mg/L)



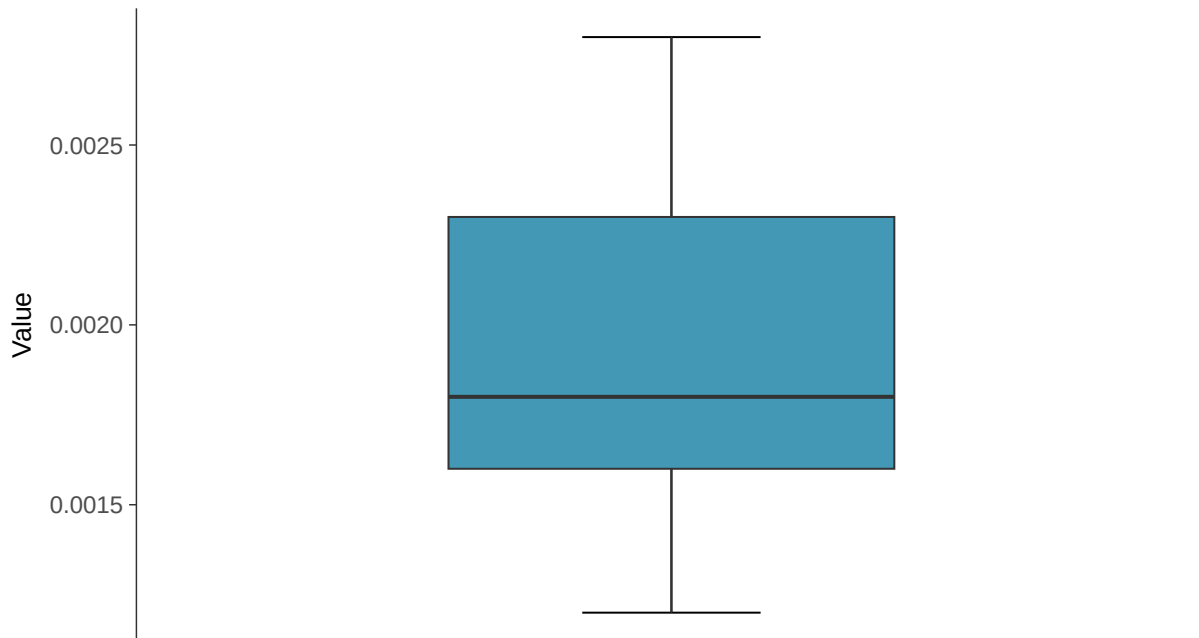
Appendix IV: Lead, MW-20

ID: 30_1_4_115



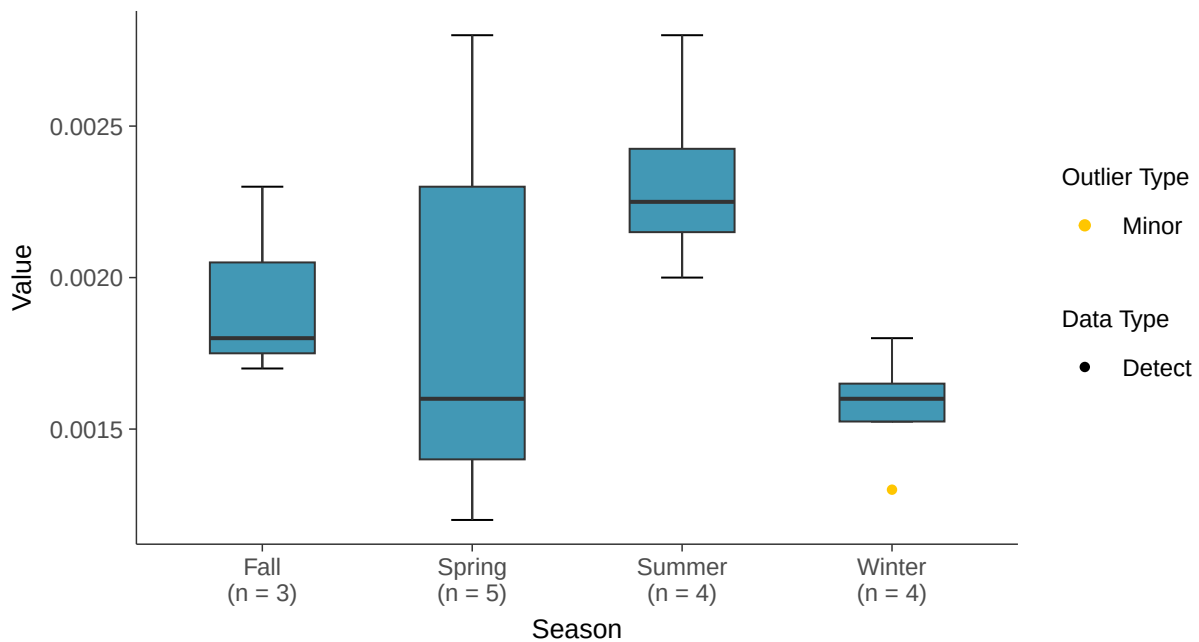
Boxplot

Lead, MW-20 (mg/L)

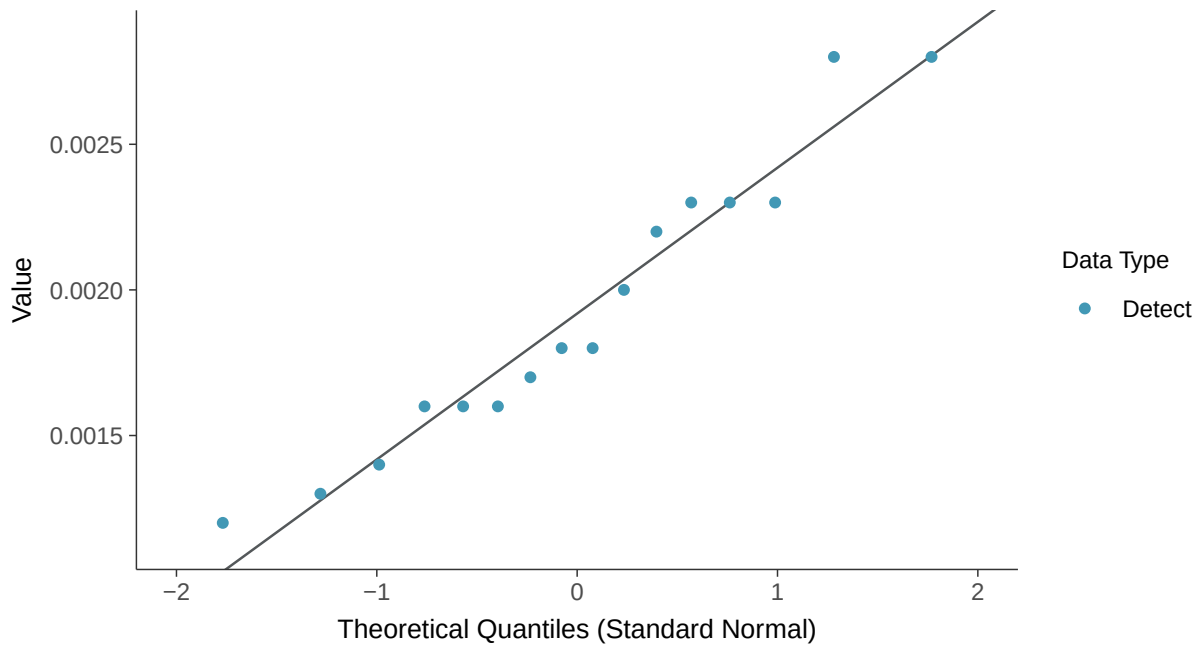


Boxplot by Season

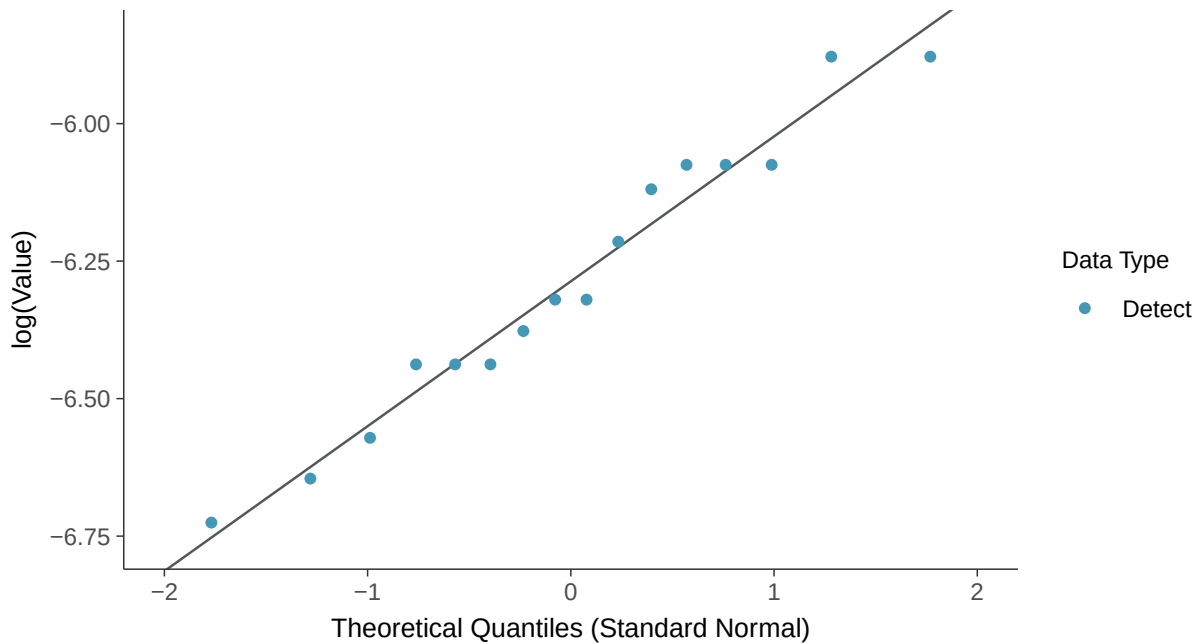
Lead, MW-20 (mg/L)

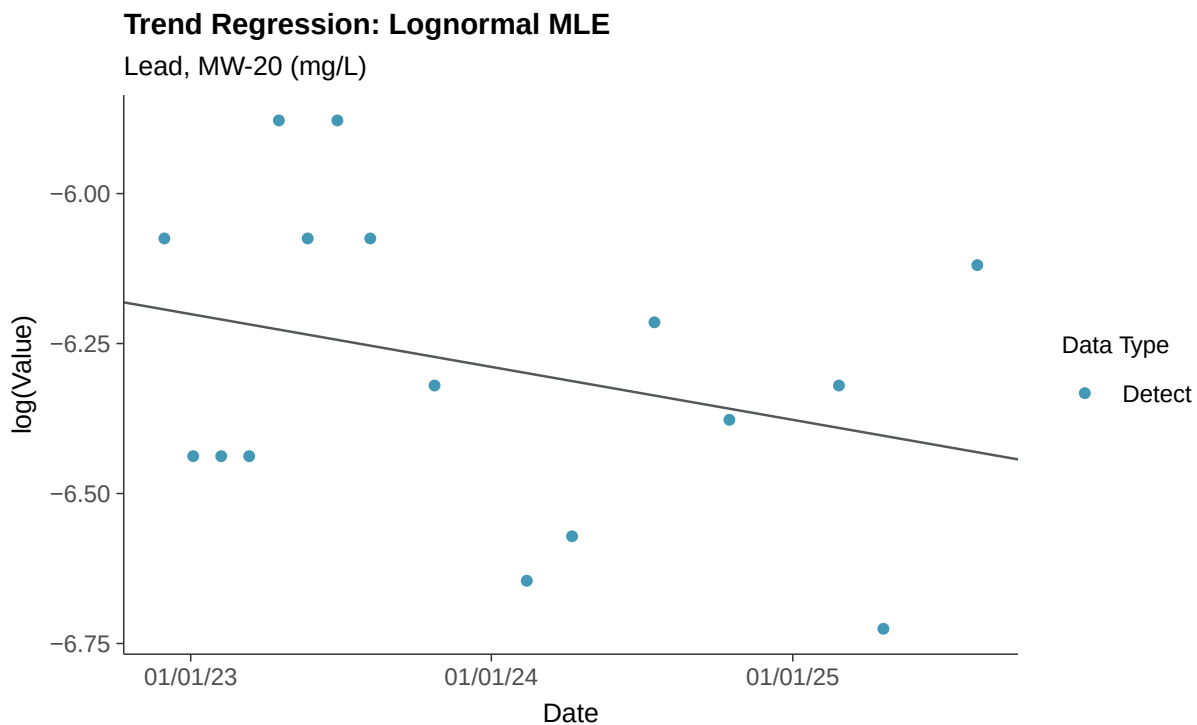
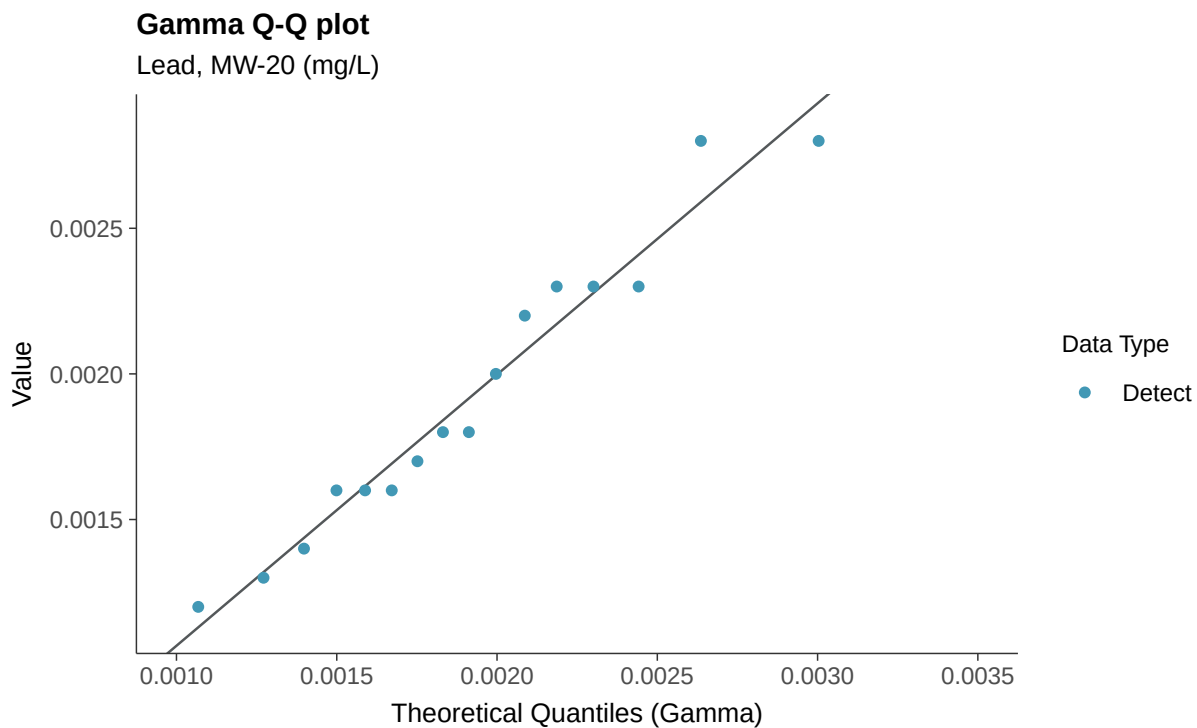


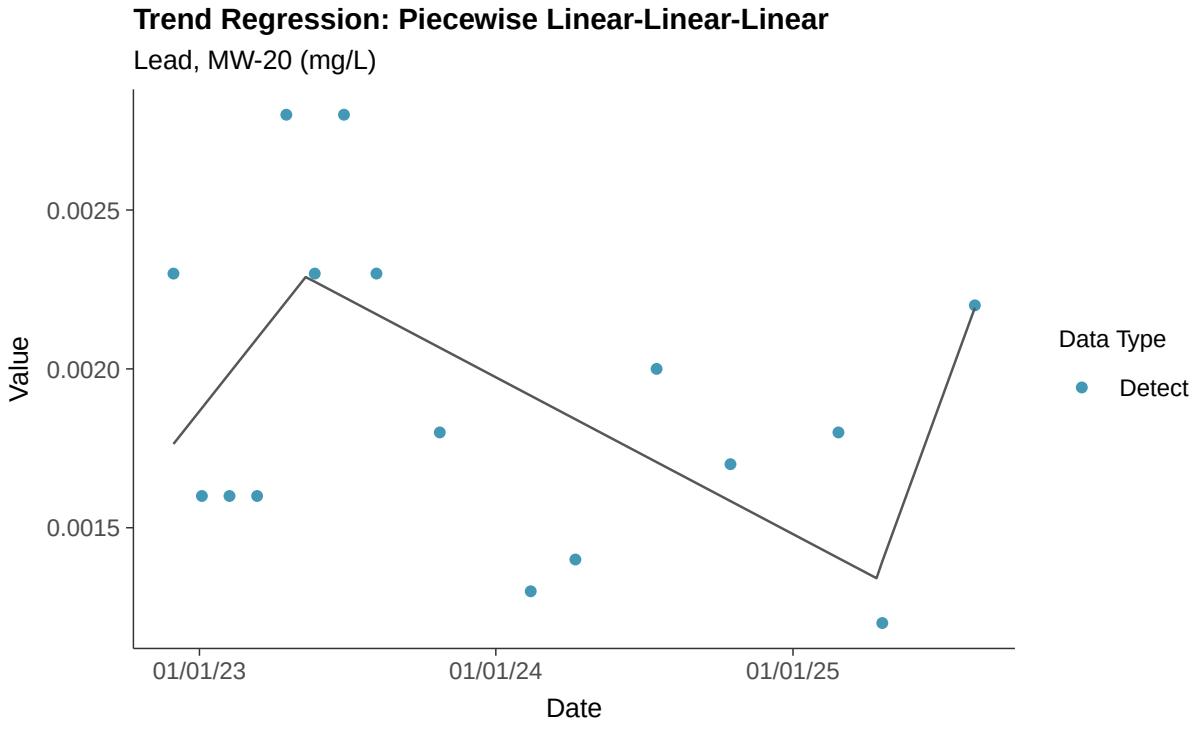
Normal Q-Q plot
Lead, MW-20 (mg/L)



Lognormal Q-Q plot
Lead, MW-20 (mg/L)

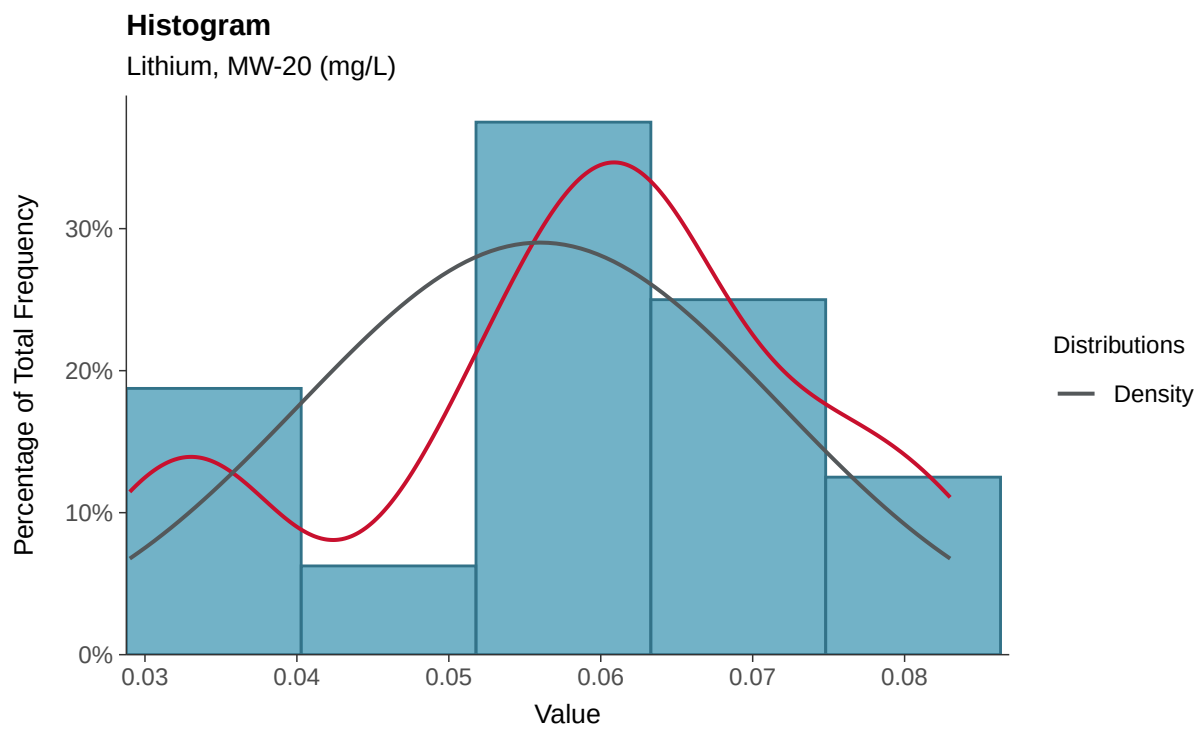
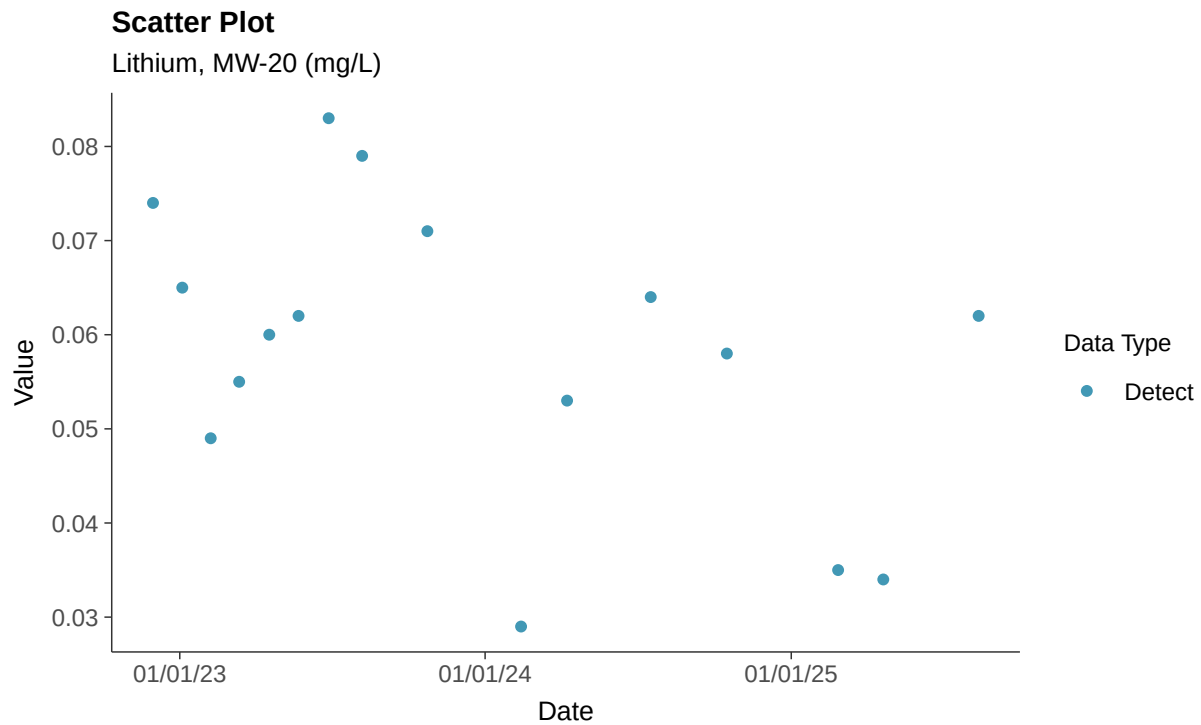


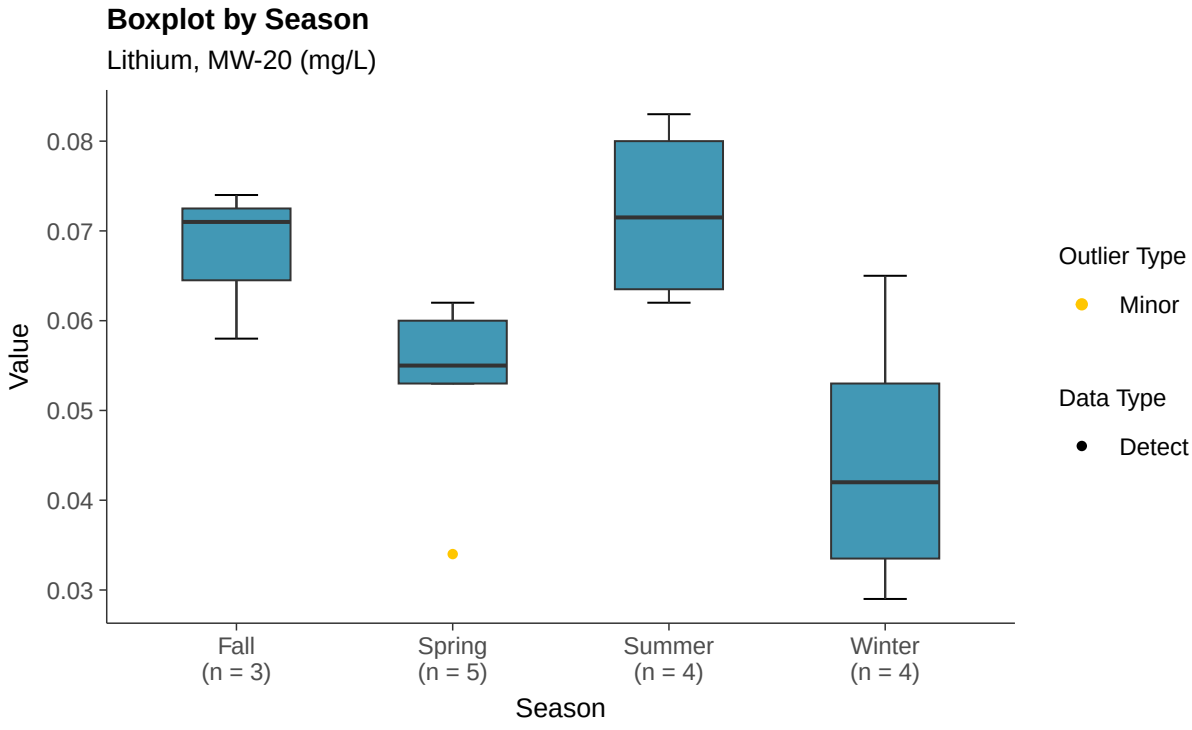
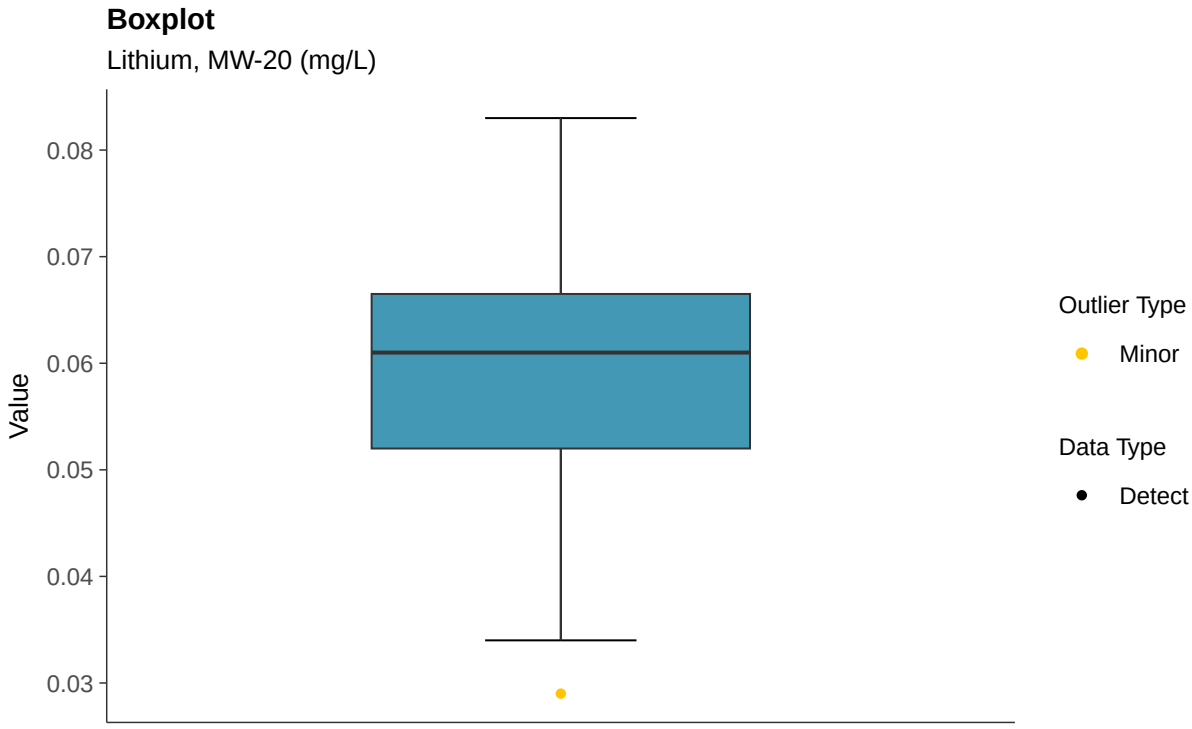




Appendix IV: Lithium, MW-20

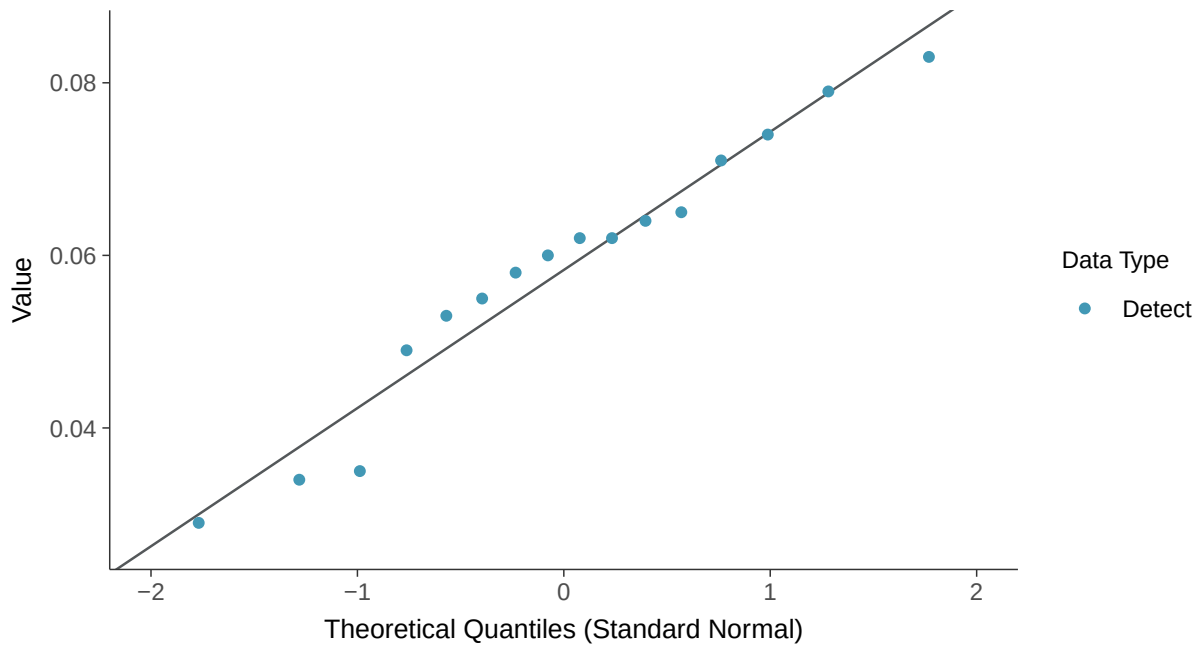
ID: 30_1_4_116





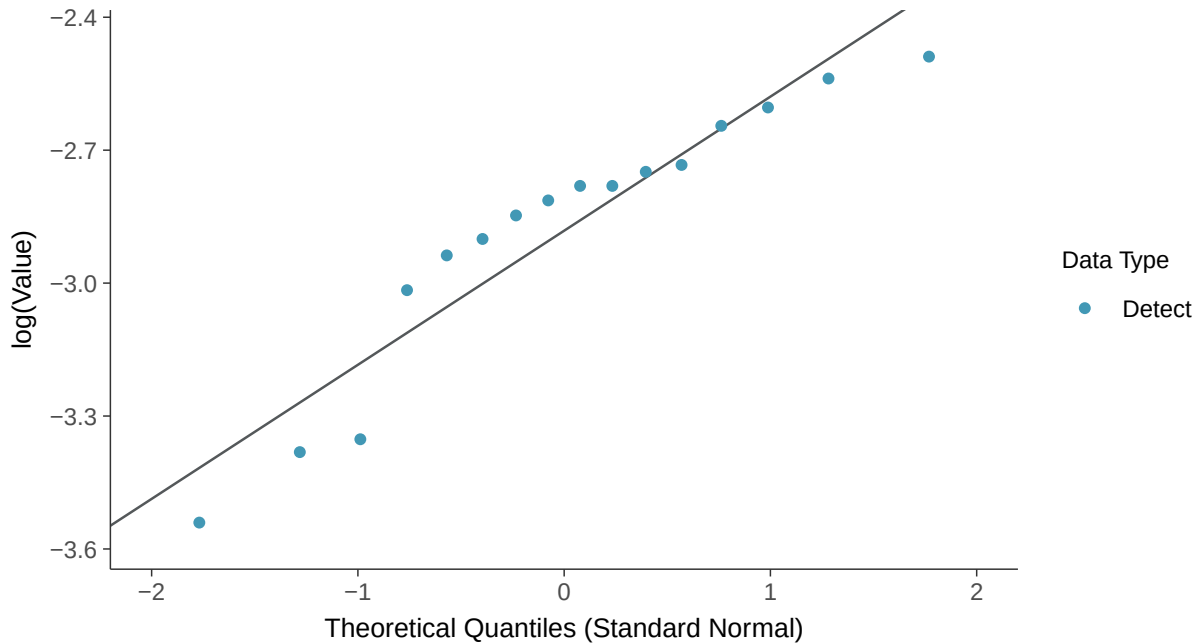
Normal Q-Q plot

Lithium, MW-20 (mg/L)



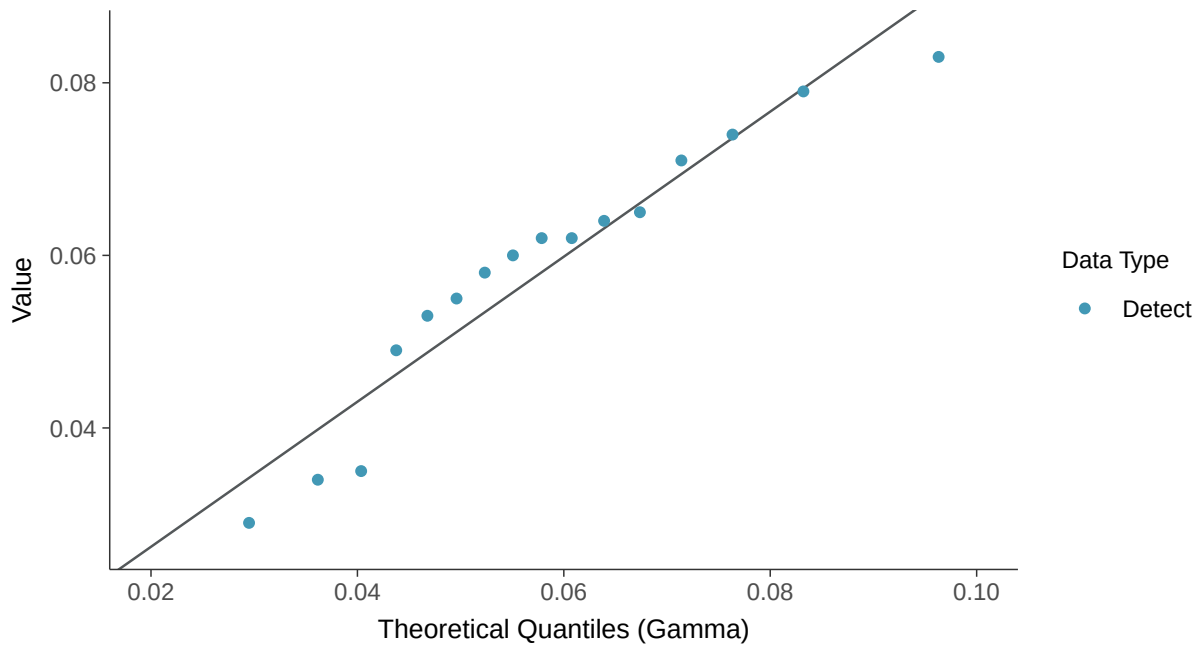
Lognormal Q-Q plot

Lithium, MW-20 (mg/L)



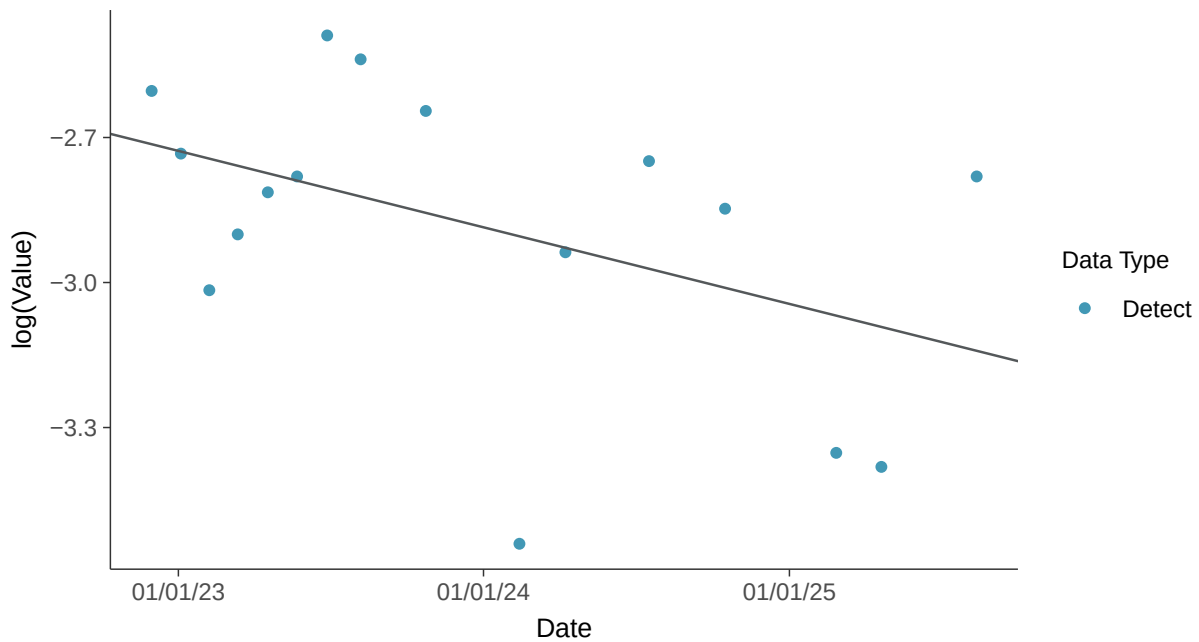
Gamma Q-Q plot

Lithium, MW-20 (mg/L)



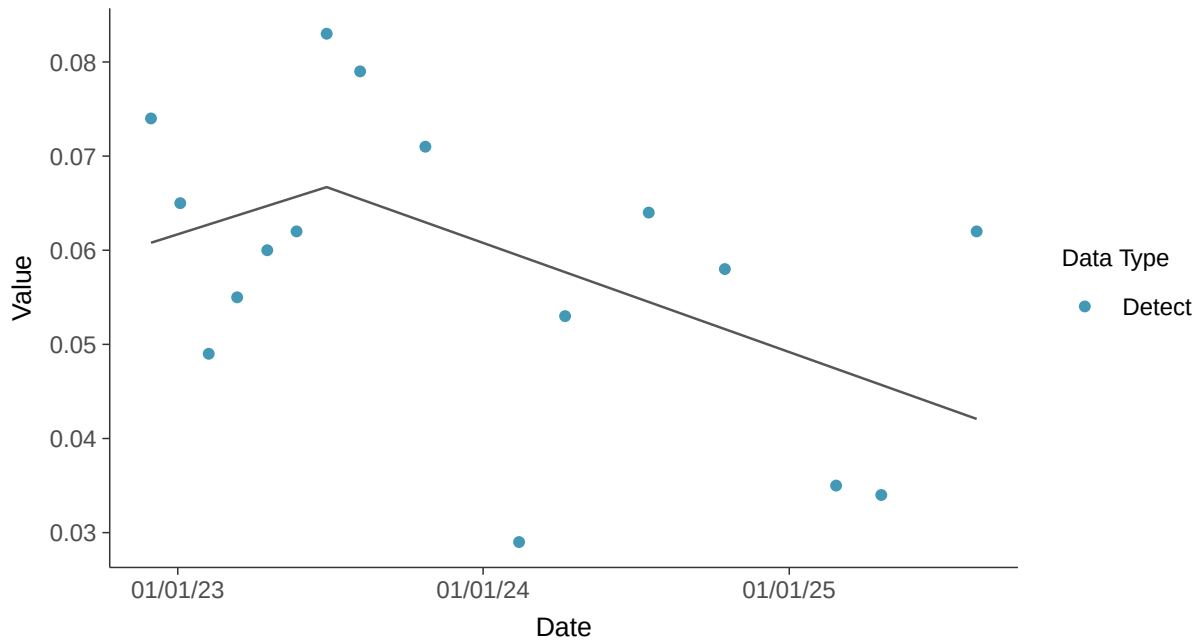
Trend Regression: Lognormal MLE

Lithium, MW-20 (mg/L)



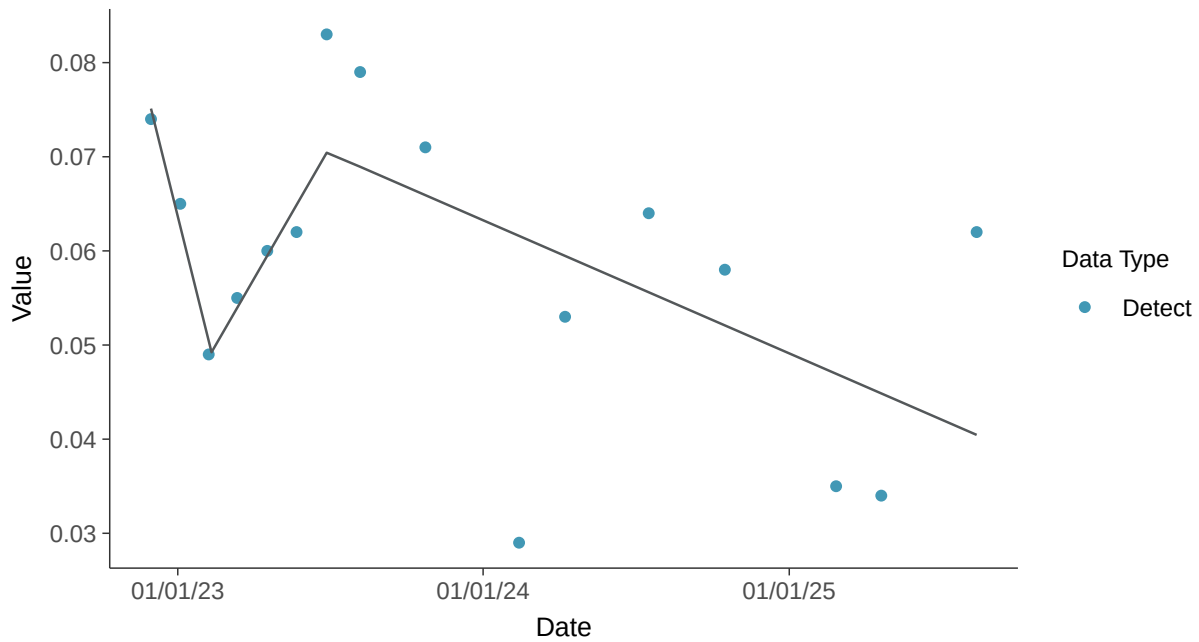
Trend Regression: Piecewise Linear-Linear

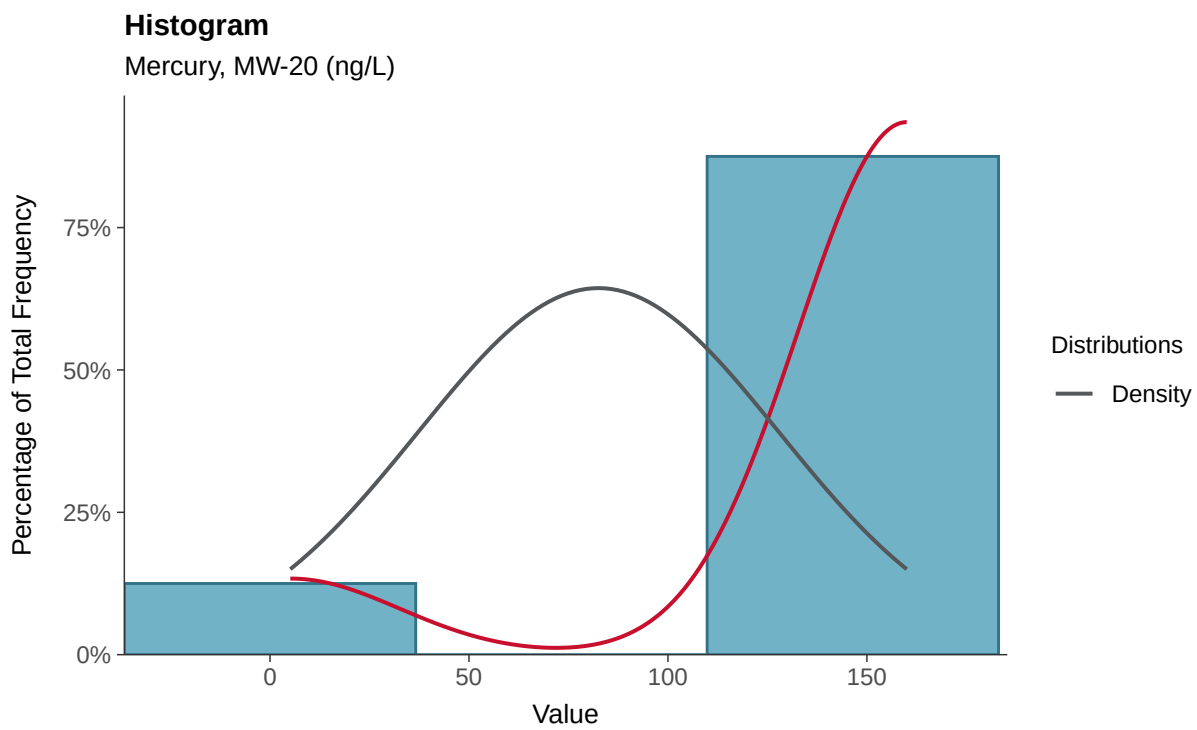
Lithium, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

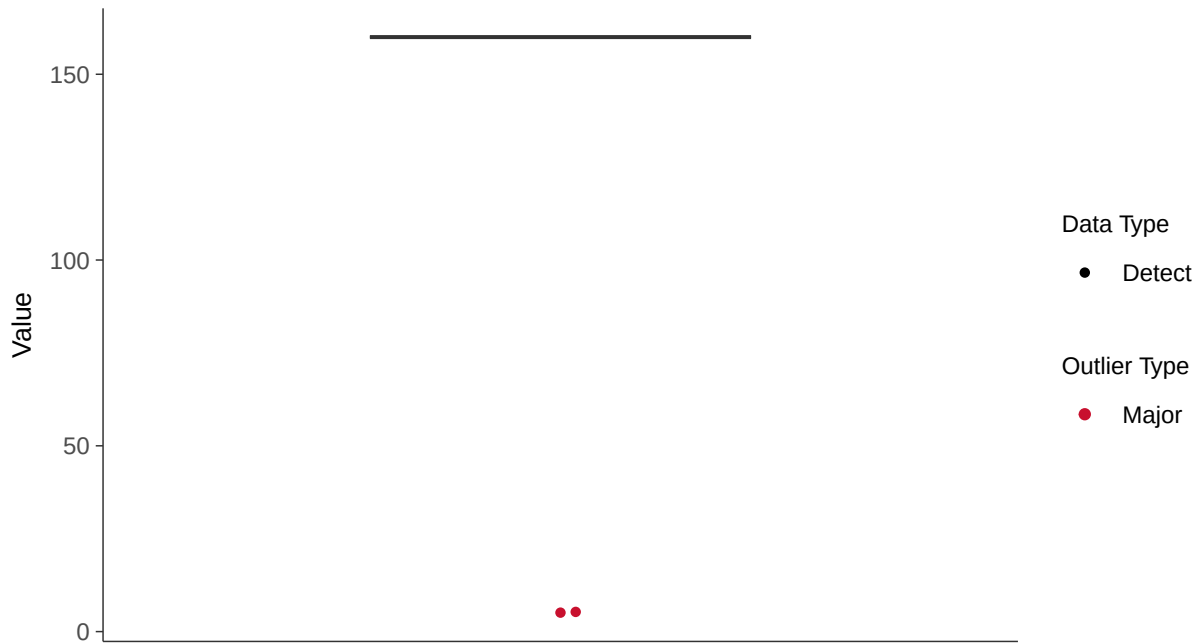
Lithium, MW-20 (mg/L)





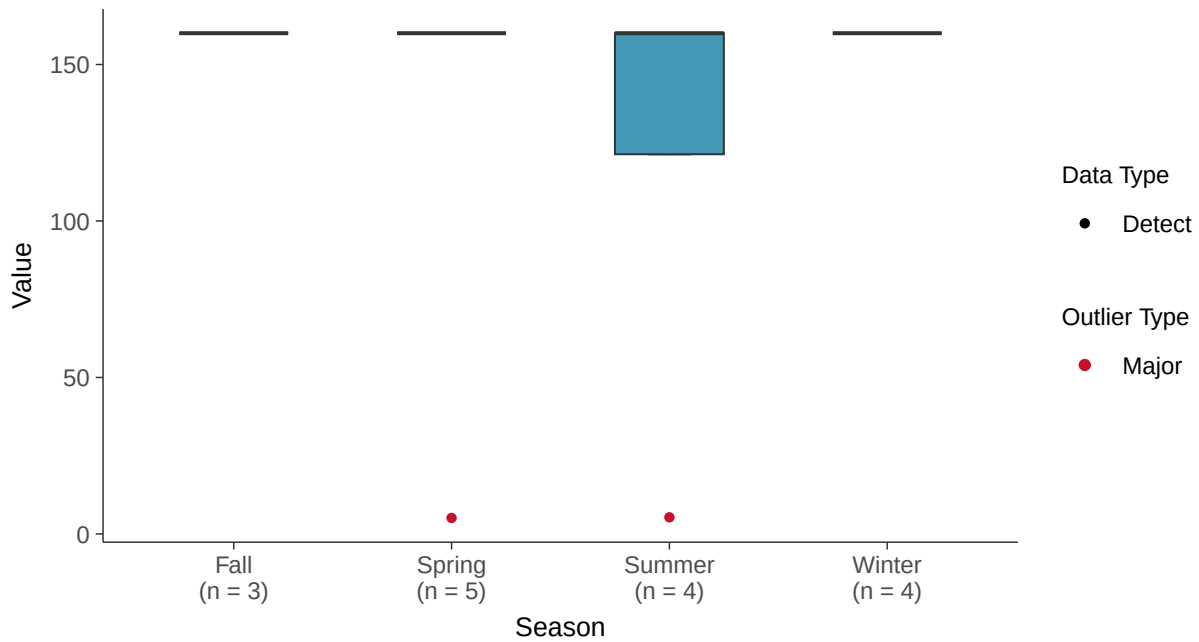
Boxplot

Mercury, MW-20 (ng/L)

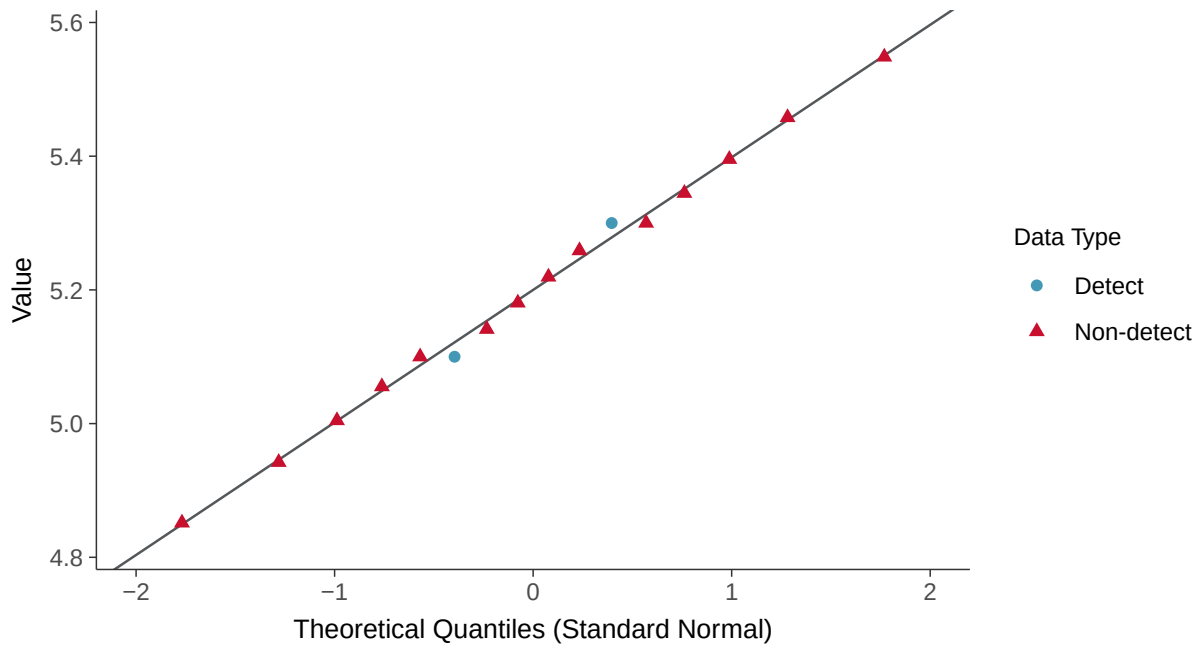


Boxplot by Season

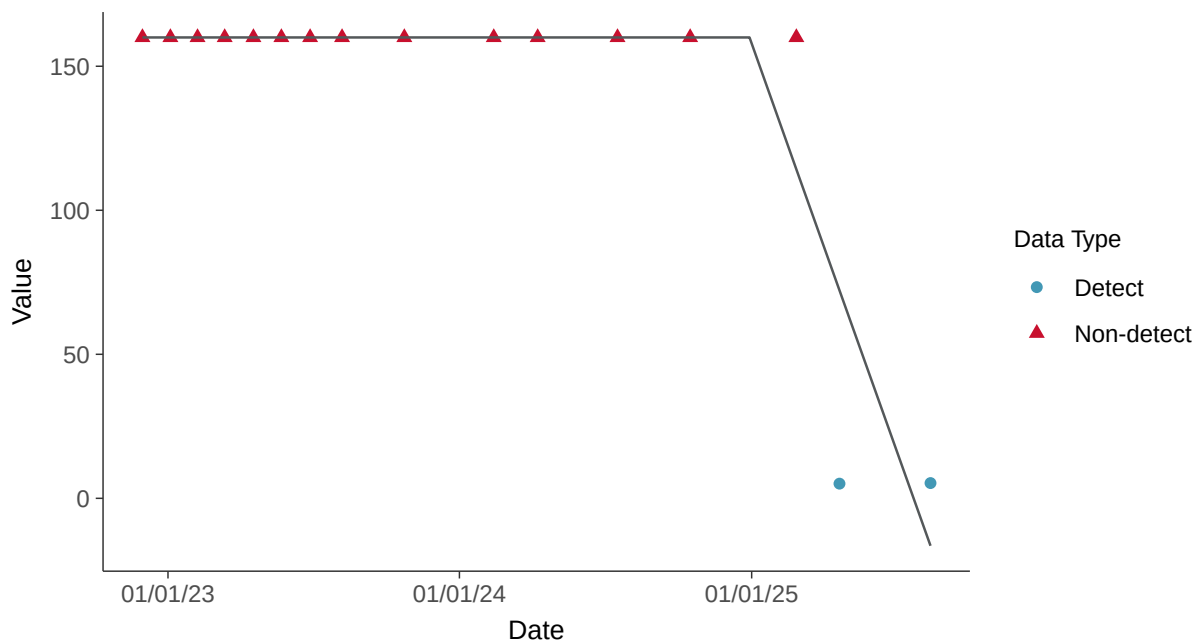
Mercury, MW-20 (ng/L)

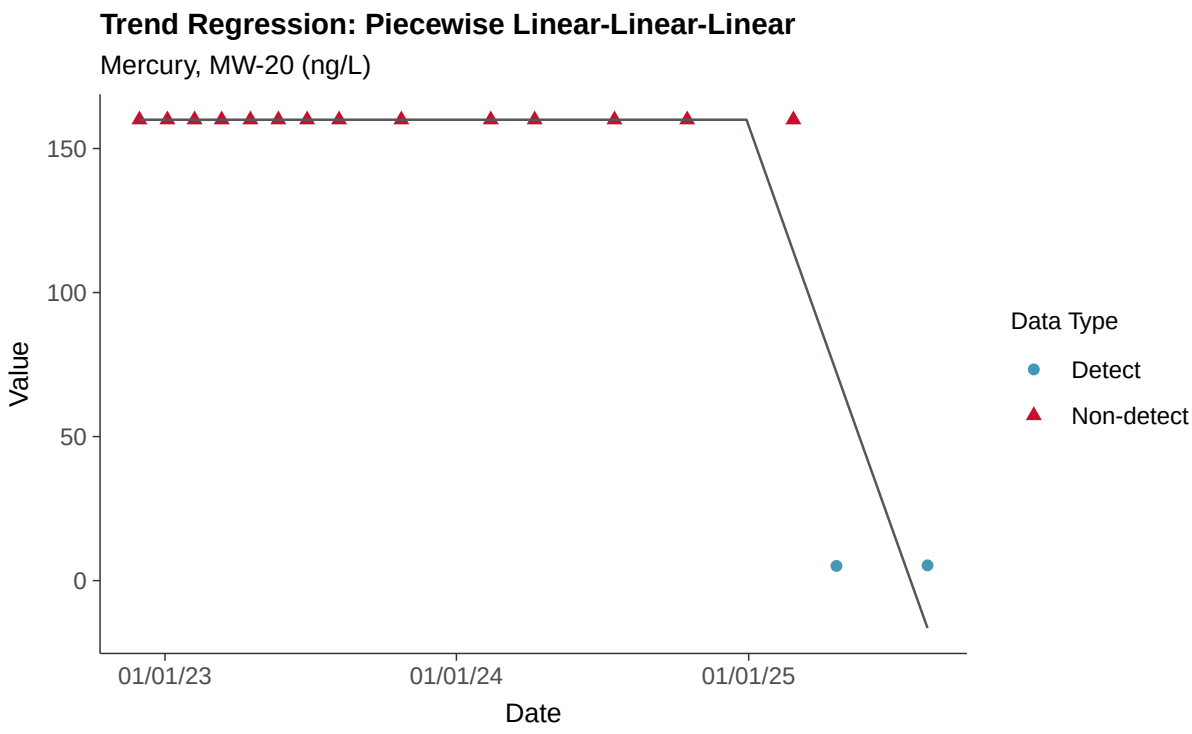


Mercury, MW-20 (ng/L)



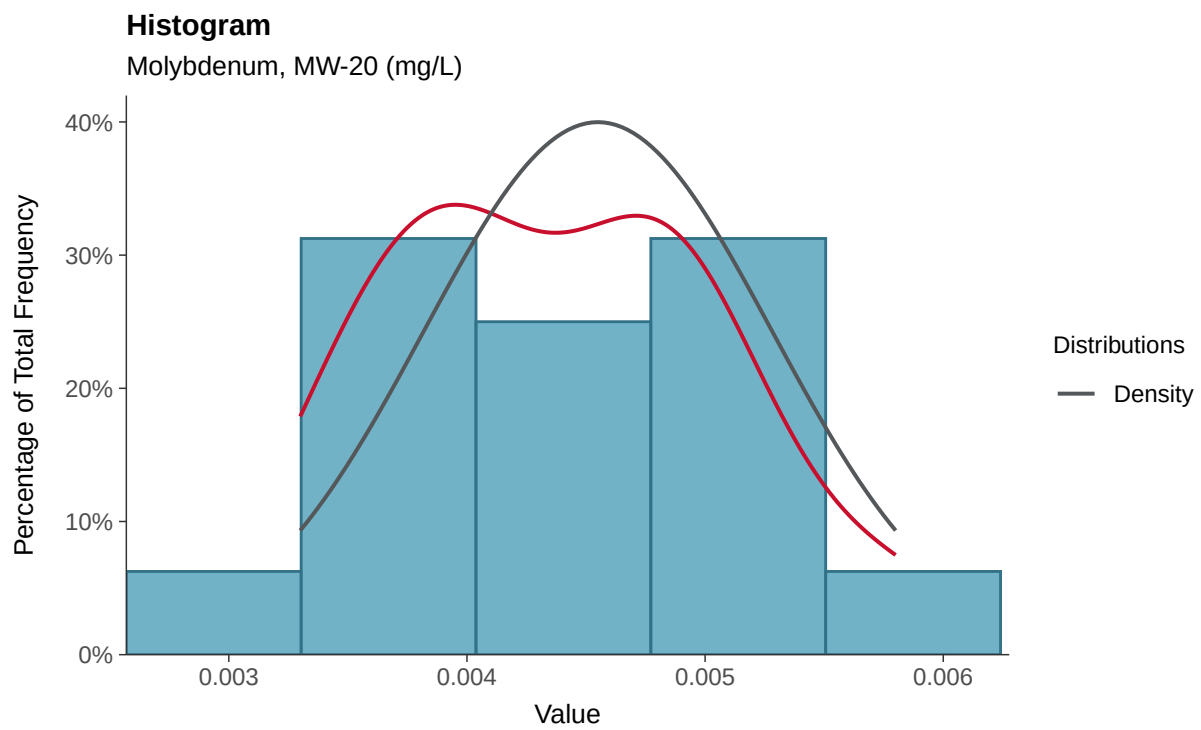
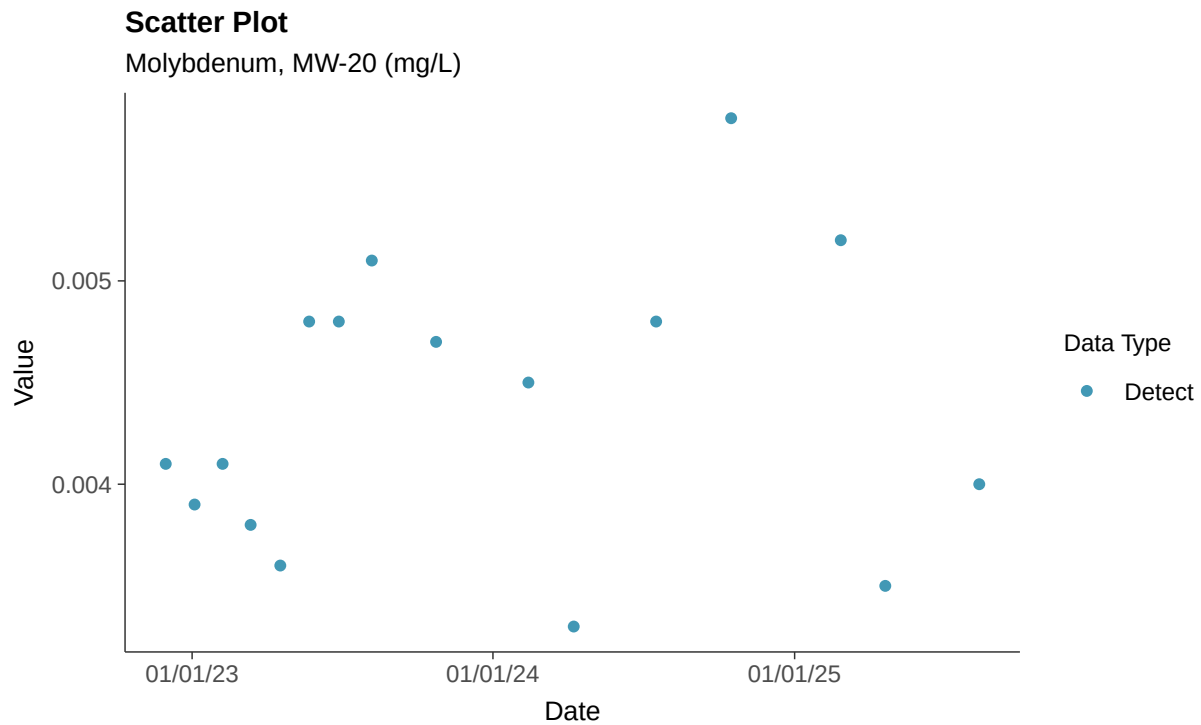
Mercury, MW-20 (ng/L)





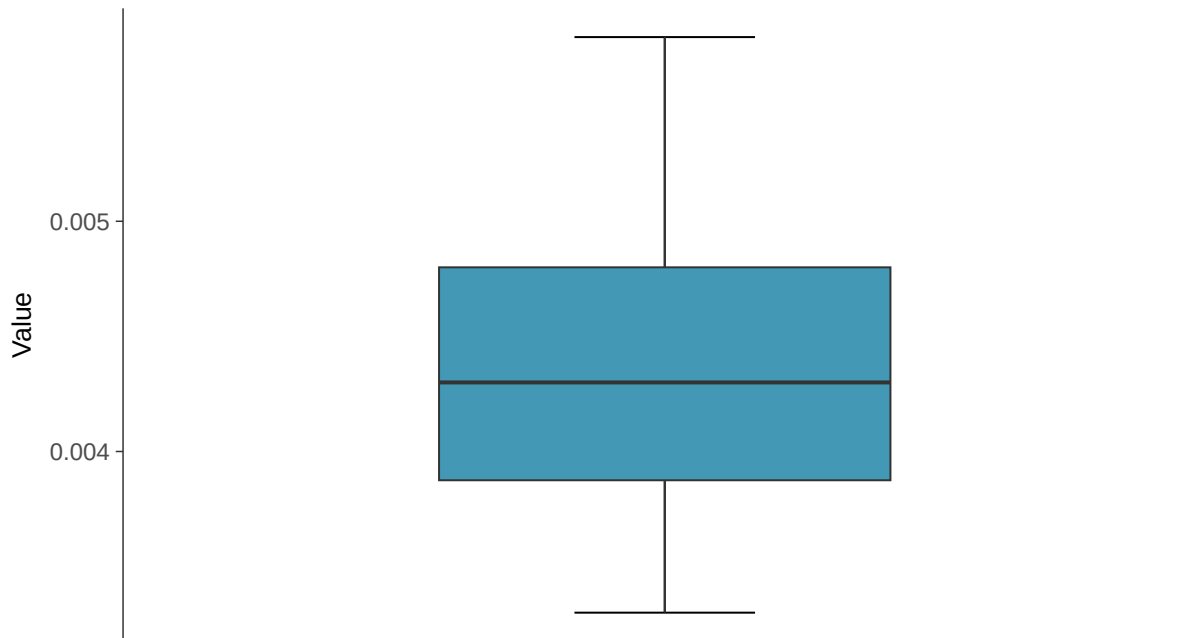
Appendix IV: Molybdenum, MW-20

ID: 30_1_4_118



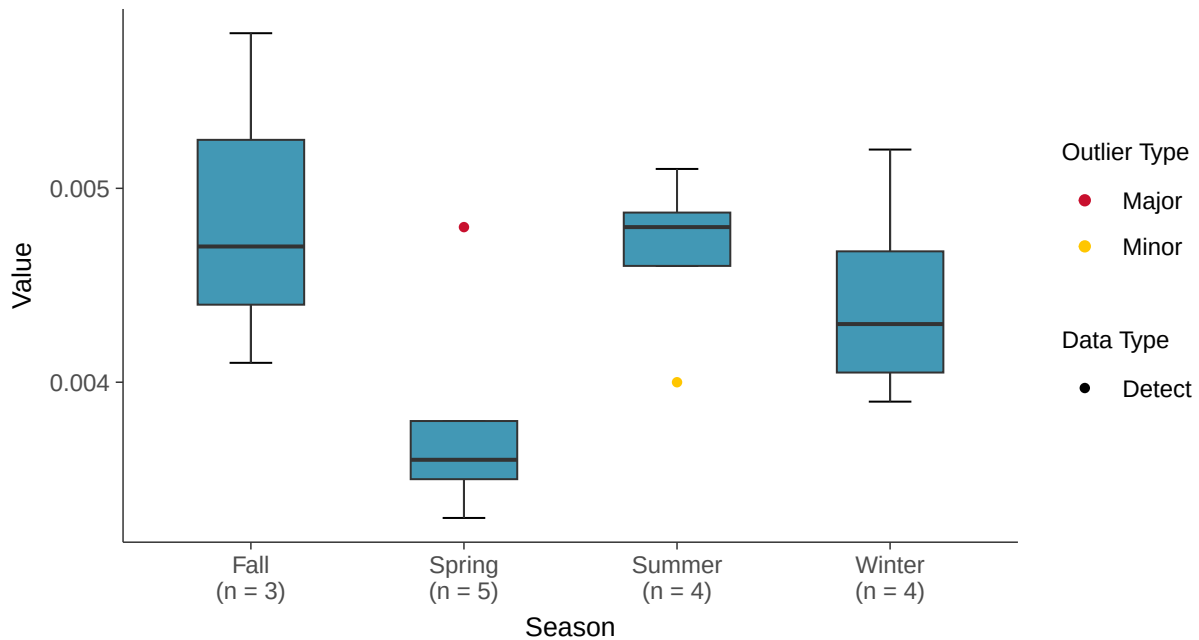
Boxplot

Molybdenum, MW-20 (mg/L)



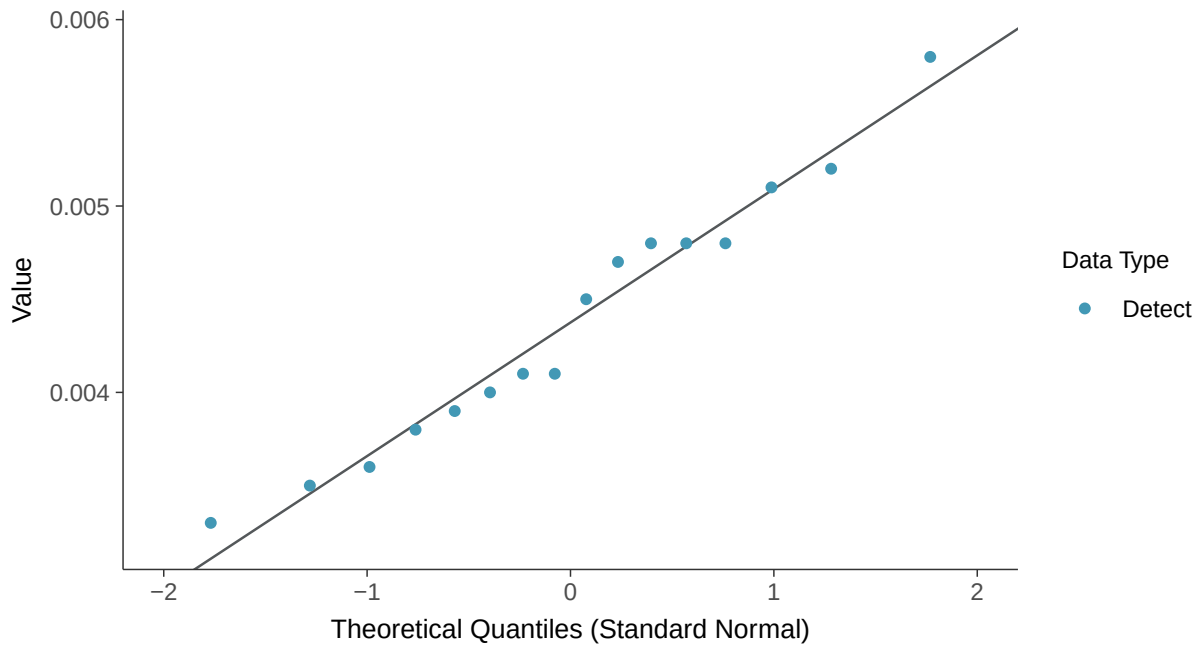
Boxplot by Season

Molybdenum, MW-20 (mg/L)



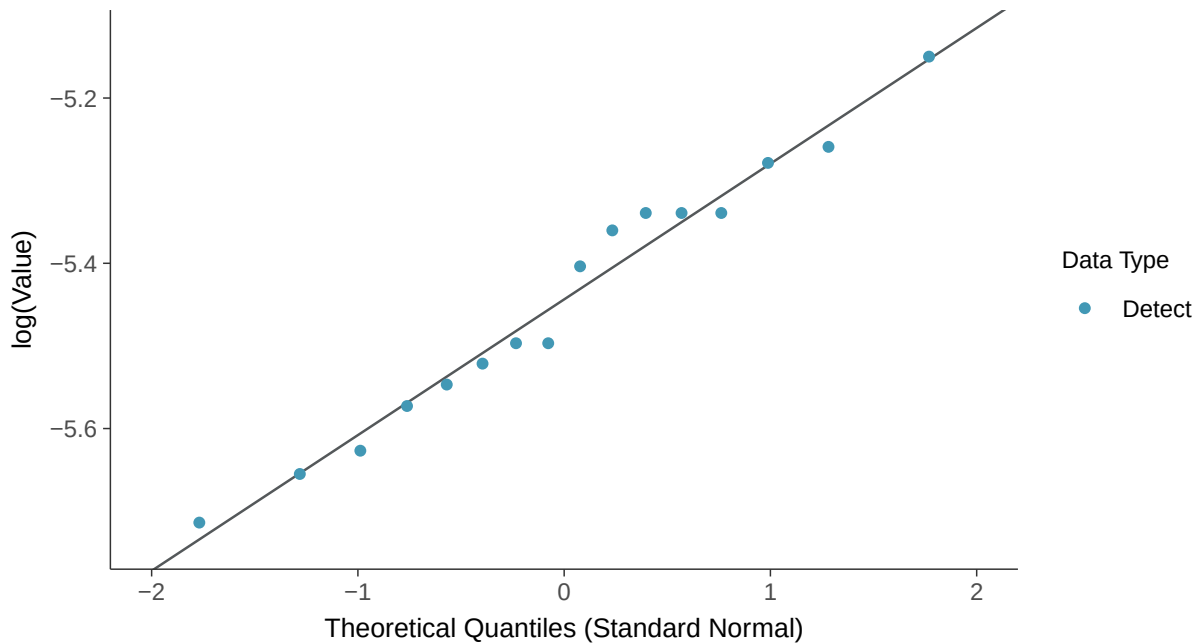
Normal Q-Q plot

Molybdenum, MW-20 (mg/L)



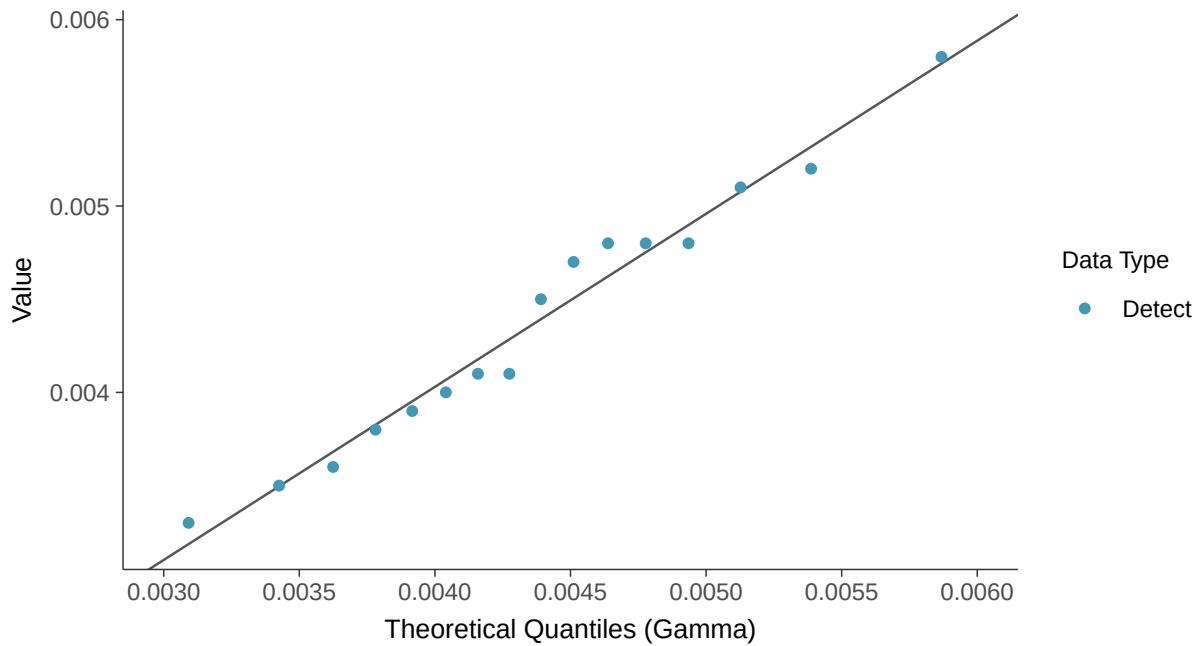
Lognormal Q-Q plot

Molybdenum, MW-20 (mg/L)



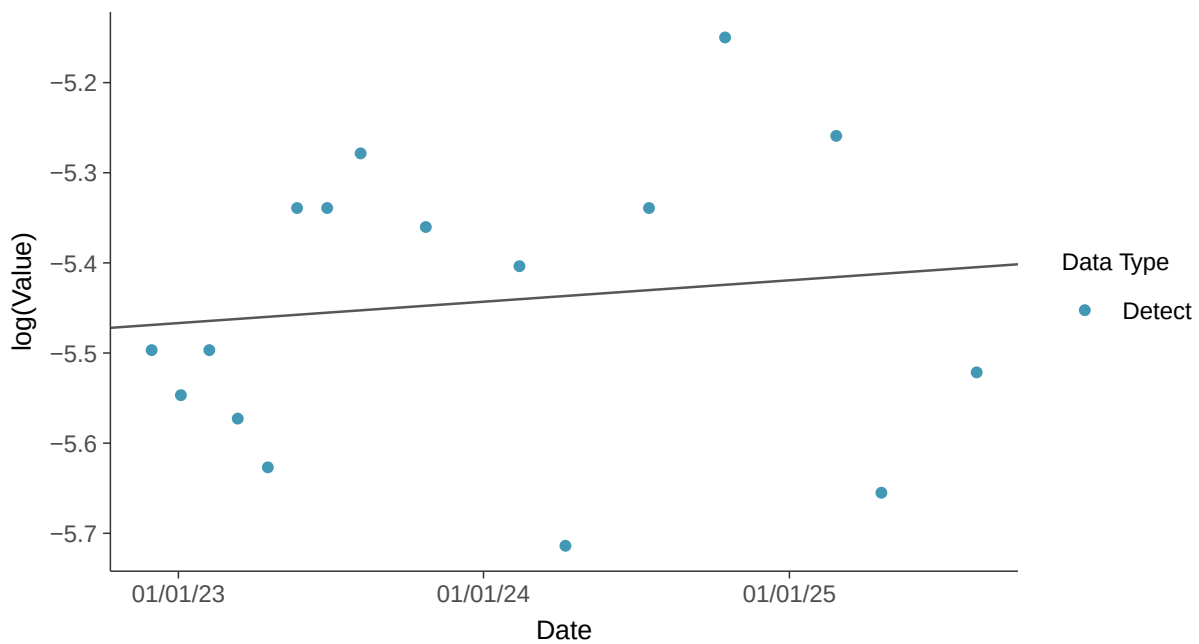
Gamma Q-Q plot

Molybdenum, MW-20 (mg/L)



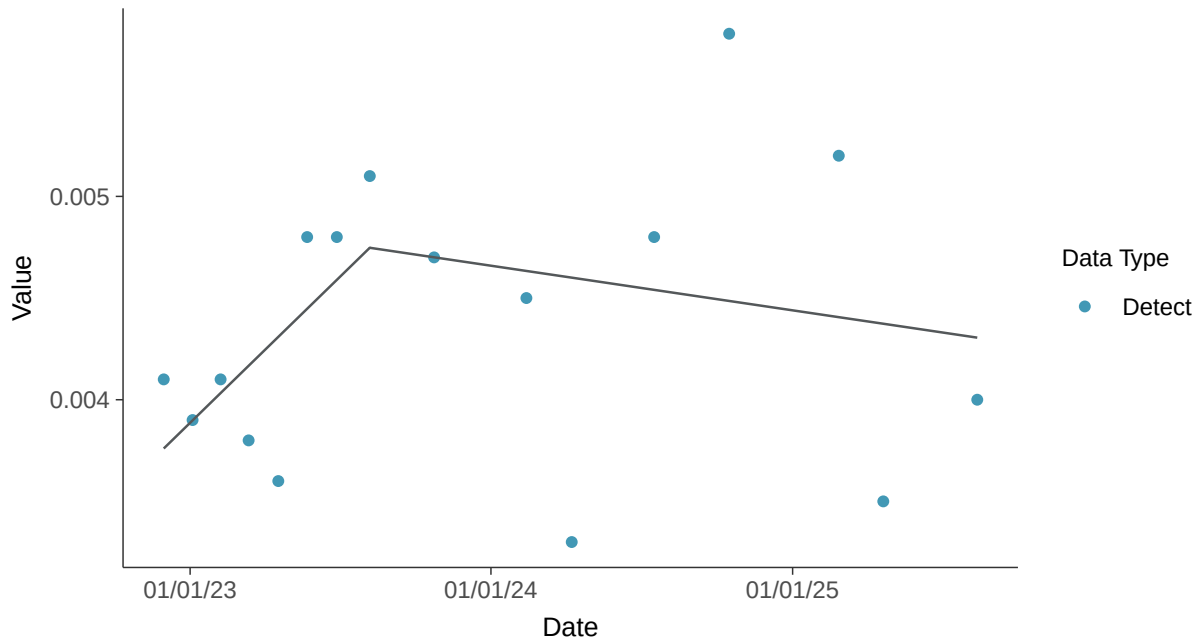
Trend Regression: Lognormal MLE

Molybdenum, MW-20 (mg/L)



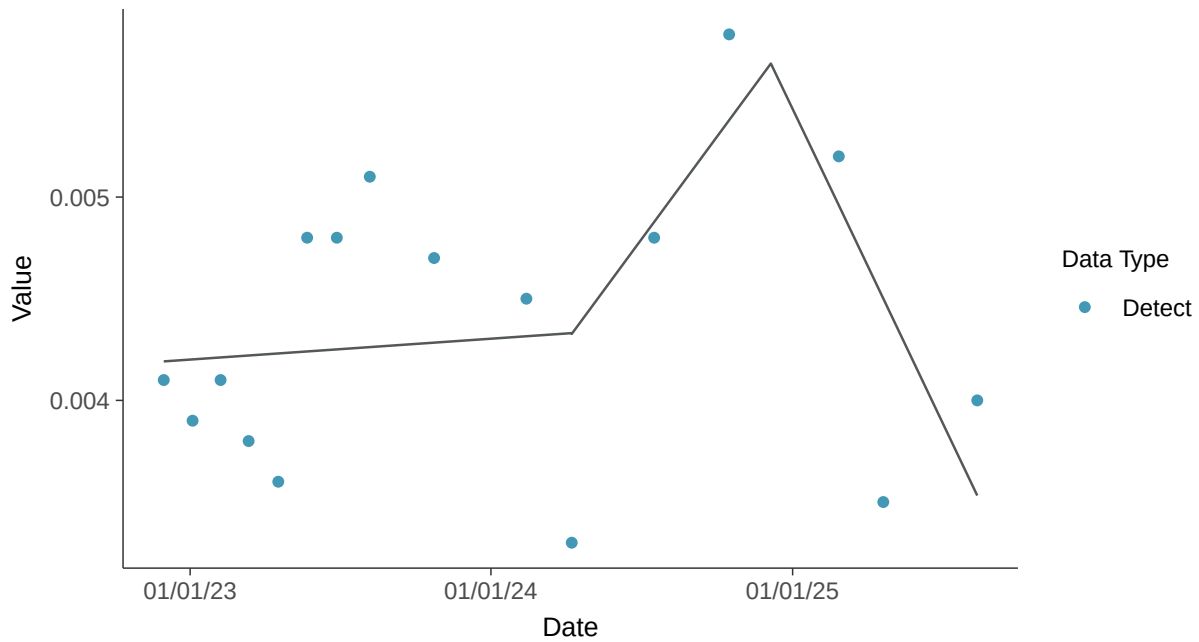
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-20 (mg/L)

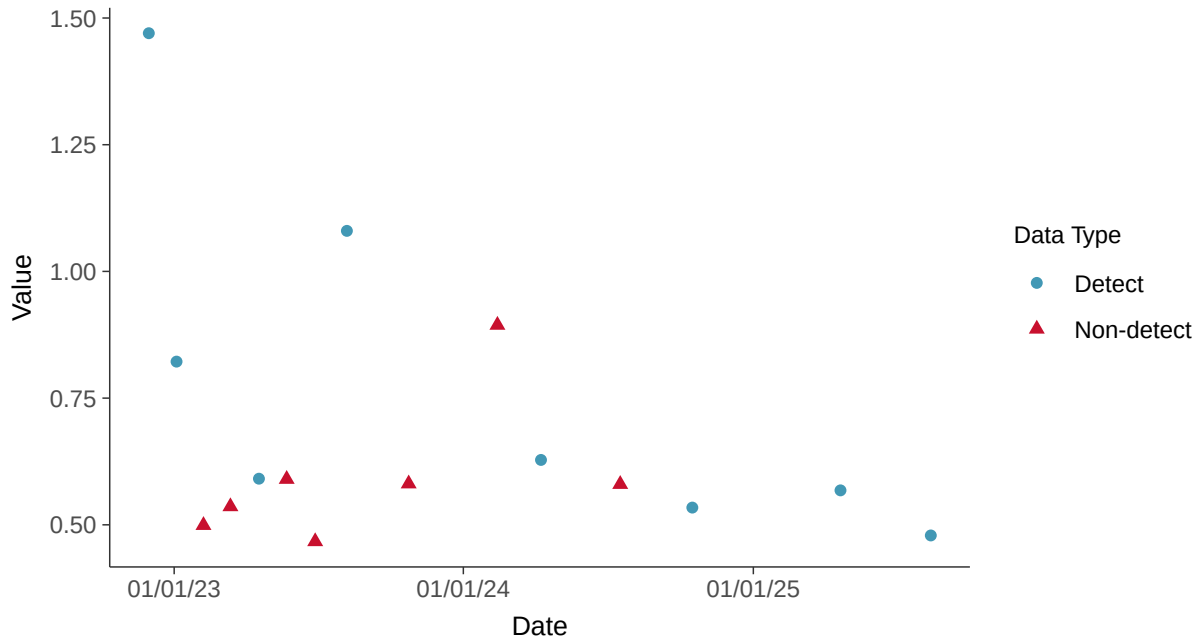


Appendix IV: Radium 226 and 228, MW-20

ID: 30_1_4_121

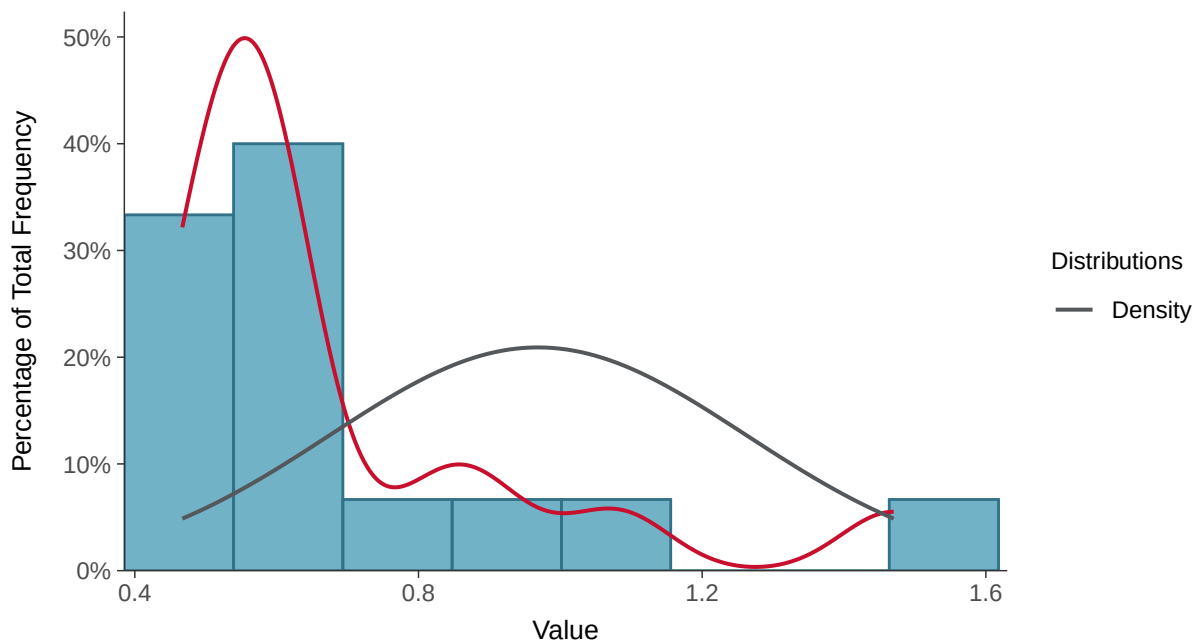
Scatter Plot

Radium 226 and 228, MW-20 (pCi/L)



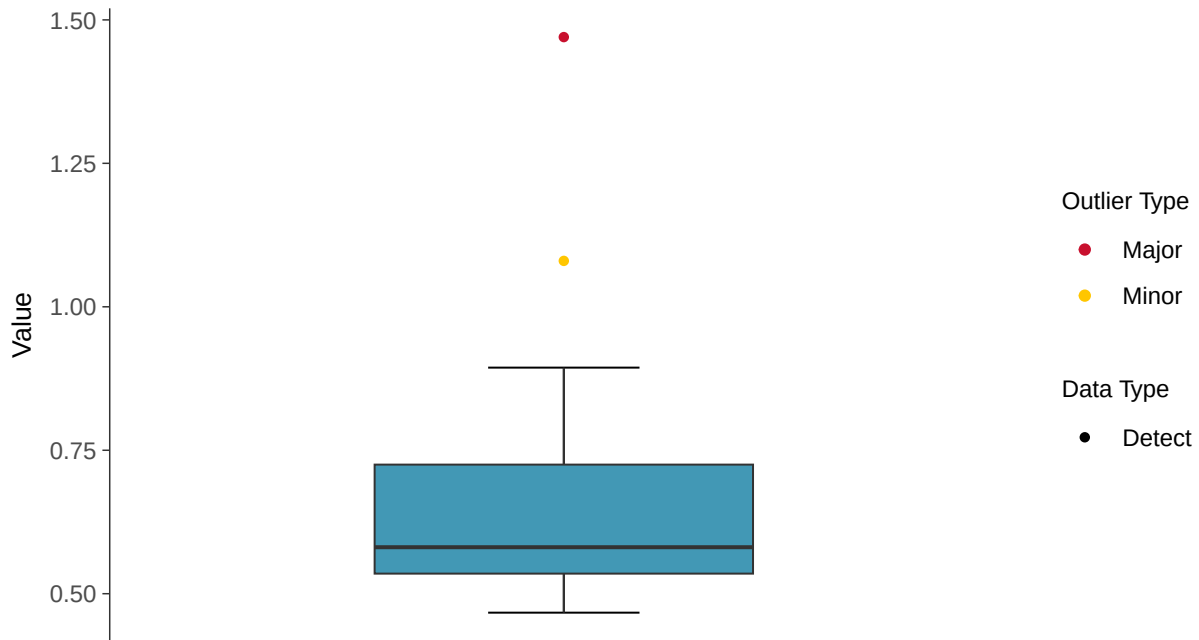
Histogram

Radium 226 and 228, MW-20 (pCi/L)



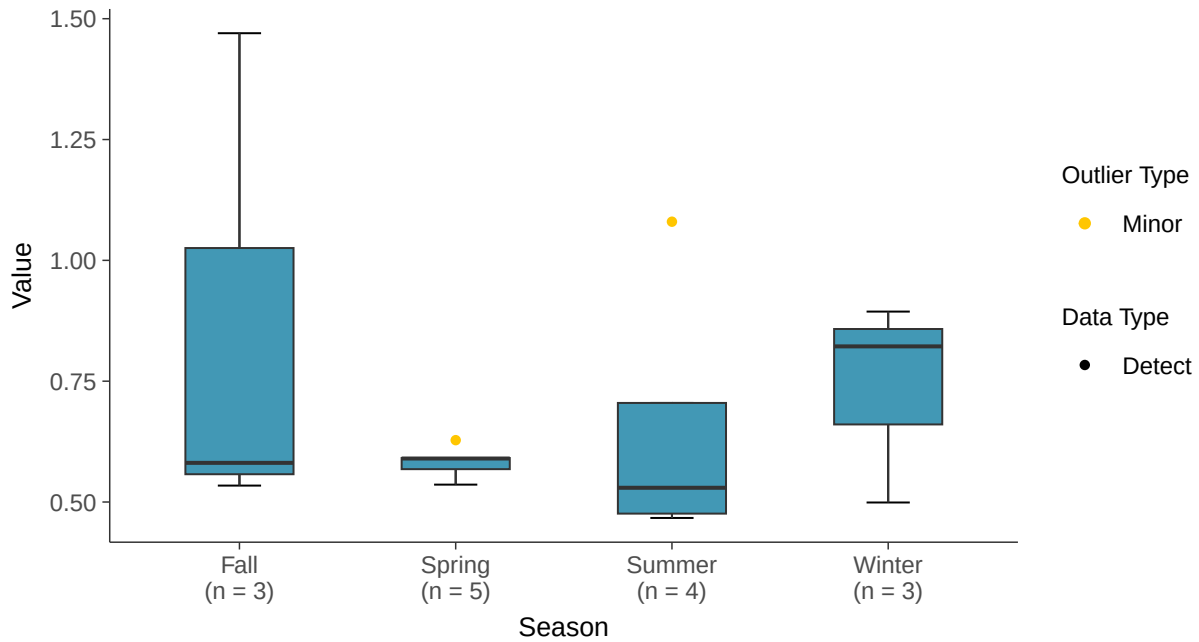
Boxplot

Radium 226 and 228, MW-20 (pCi/L)



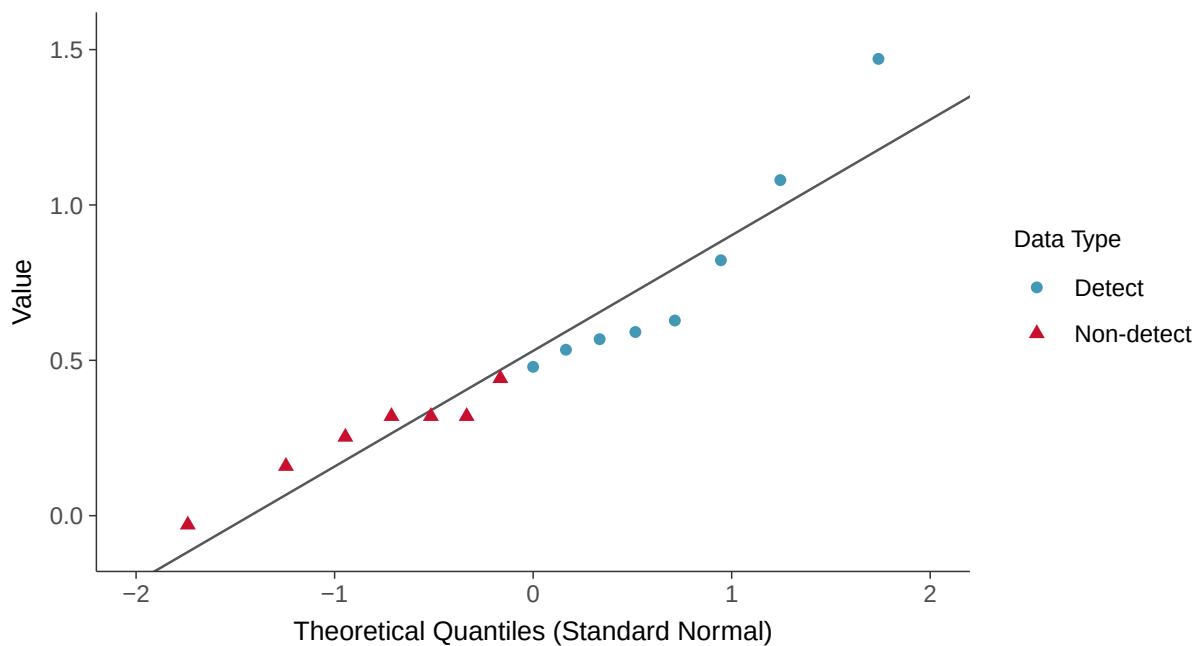
Boxplot by Season

Radium 226 and 228, MW-20 (pCi/L)



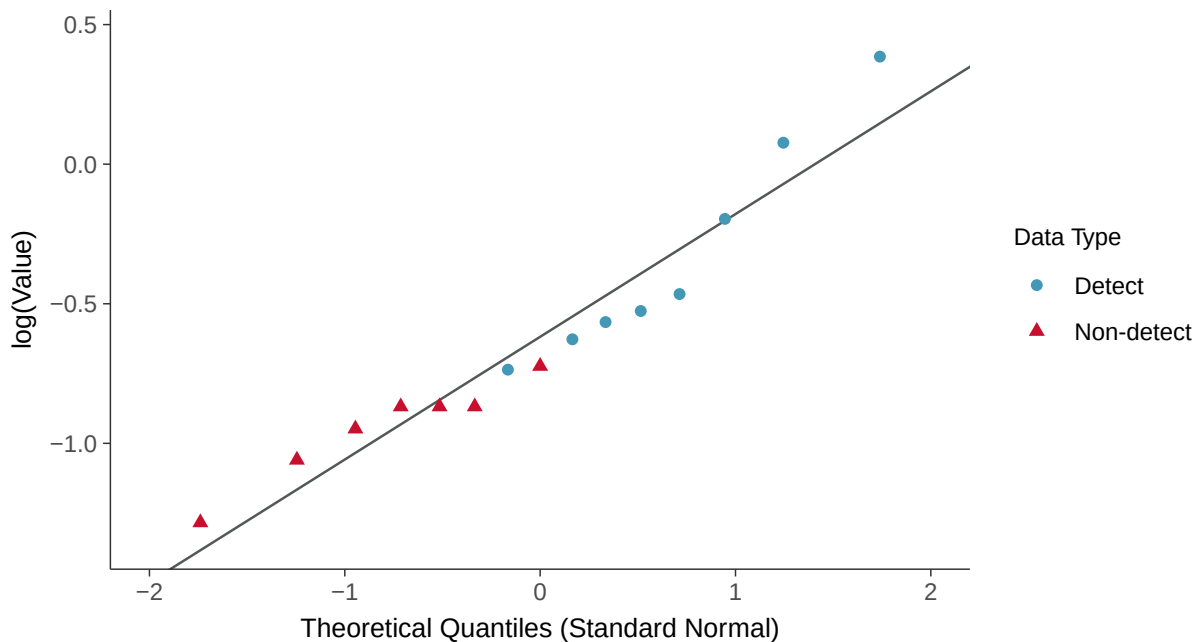
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-20 (pCi/L)



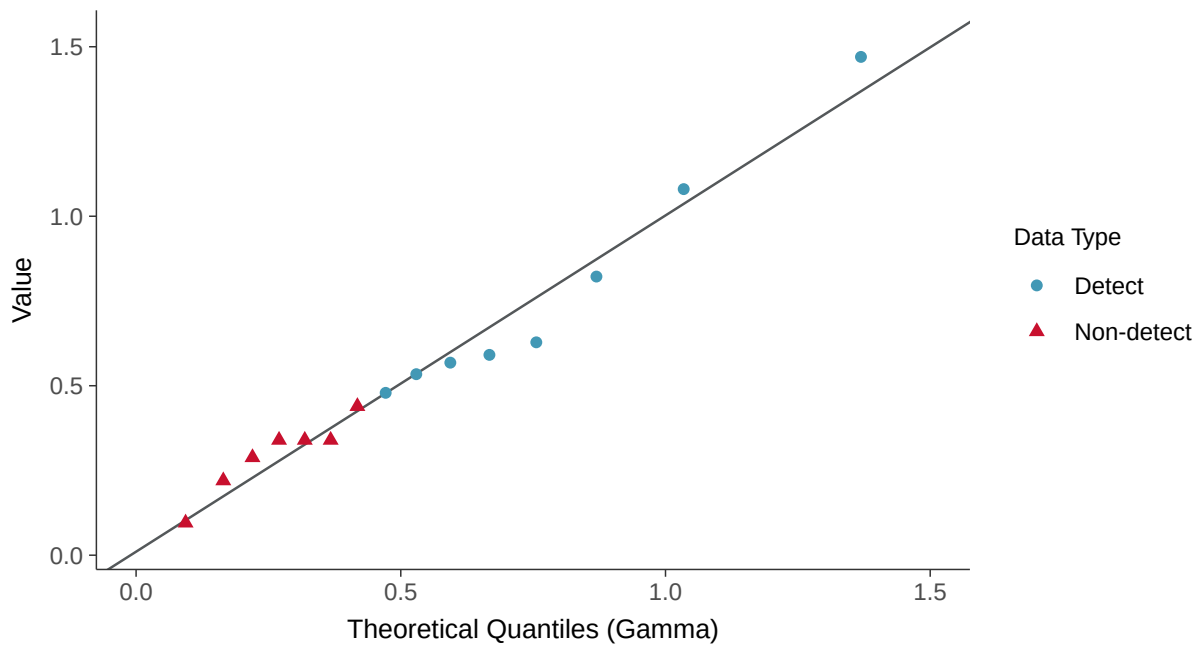
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-20 (pCi/L)



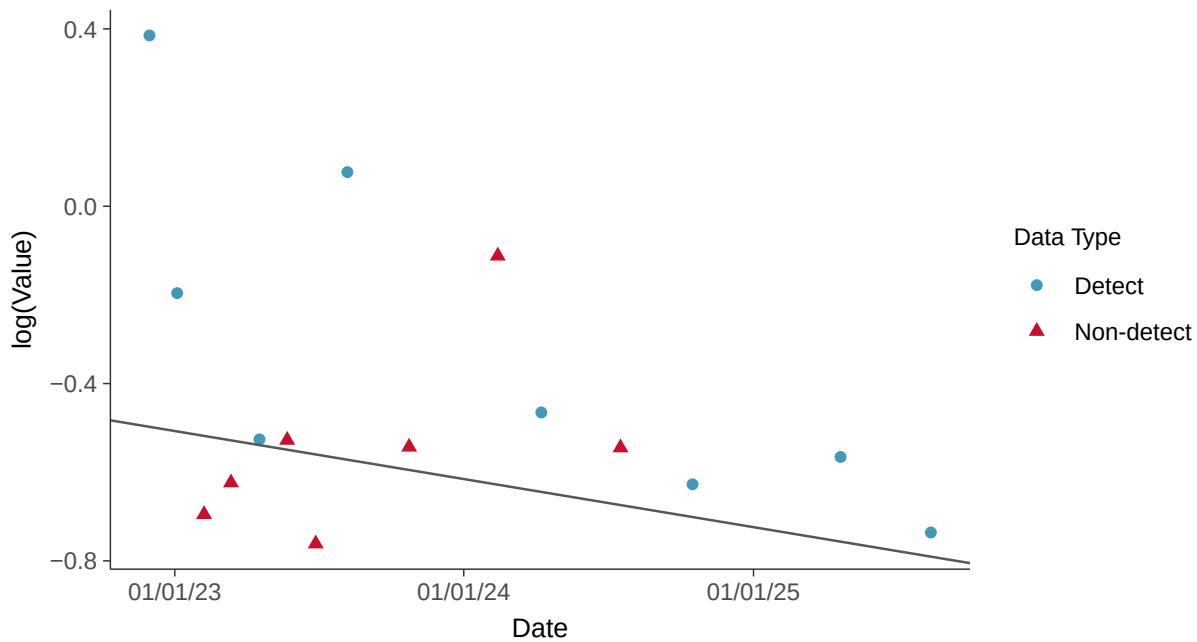
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-20 (pCi/L)



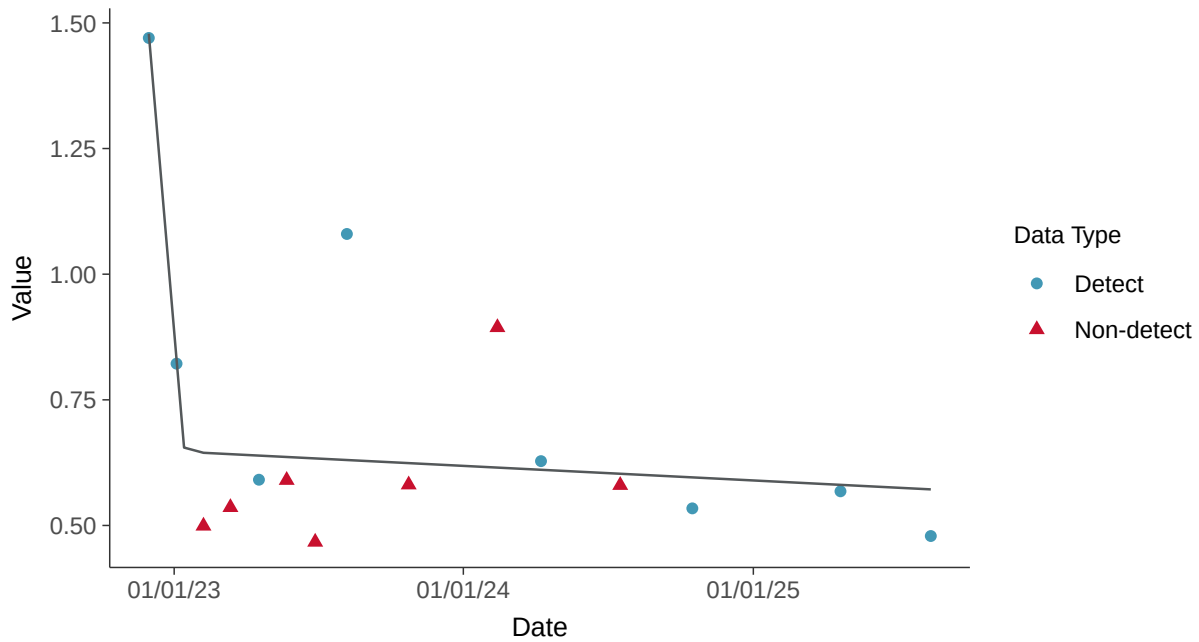
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-20 (pCi/L)



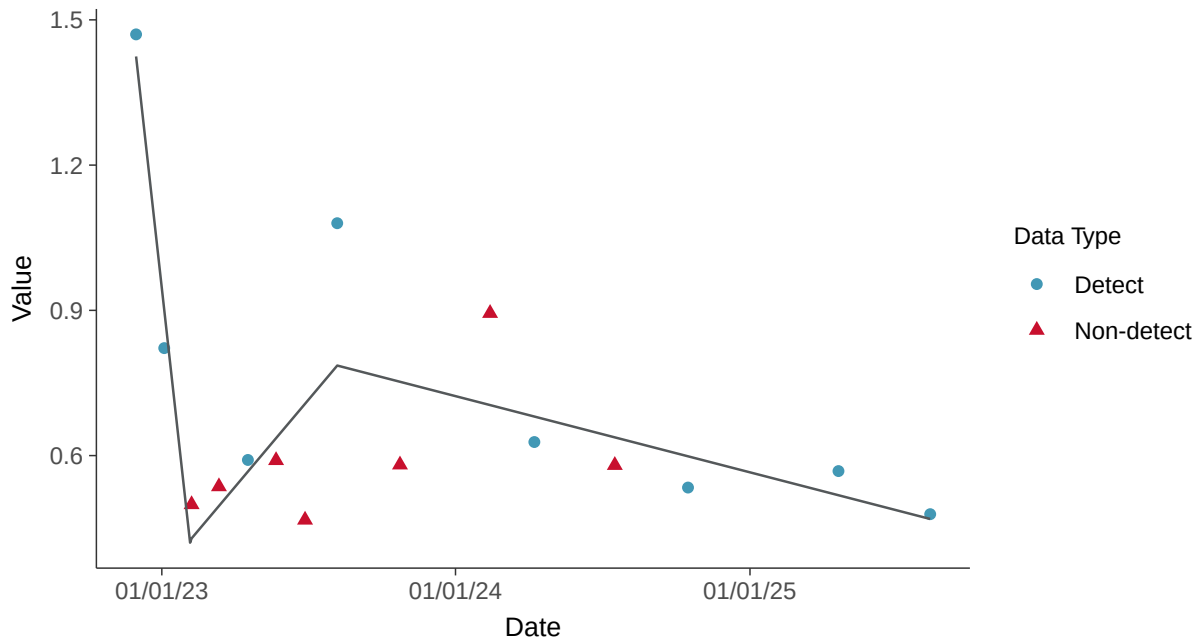
Trend Regression: Piecewise Linear-Linear

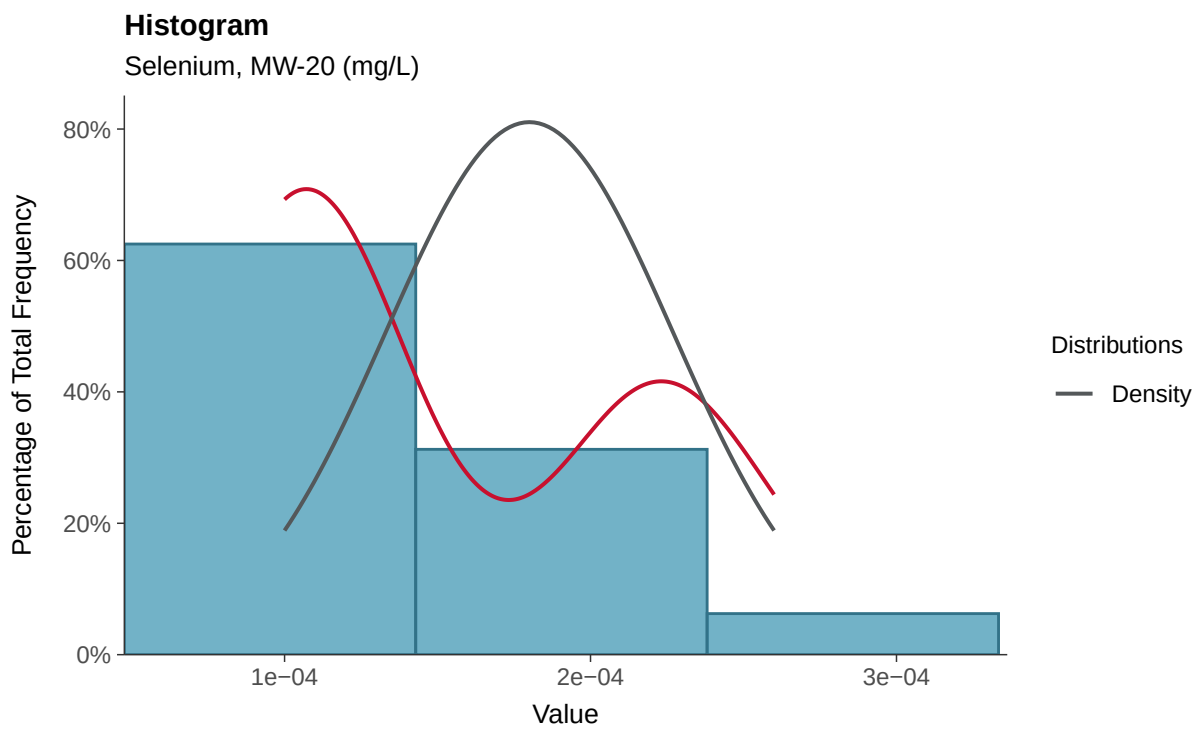
Radium 226 and 228, MW-20 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

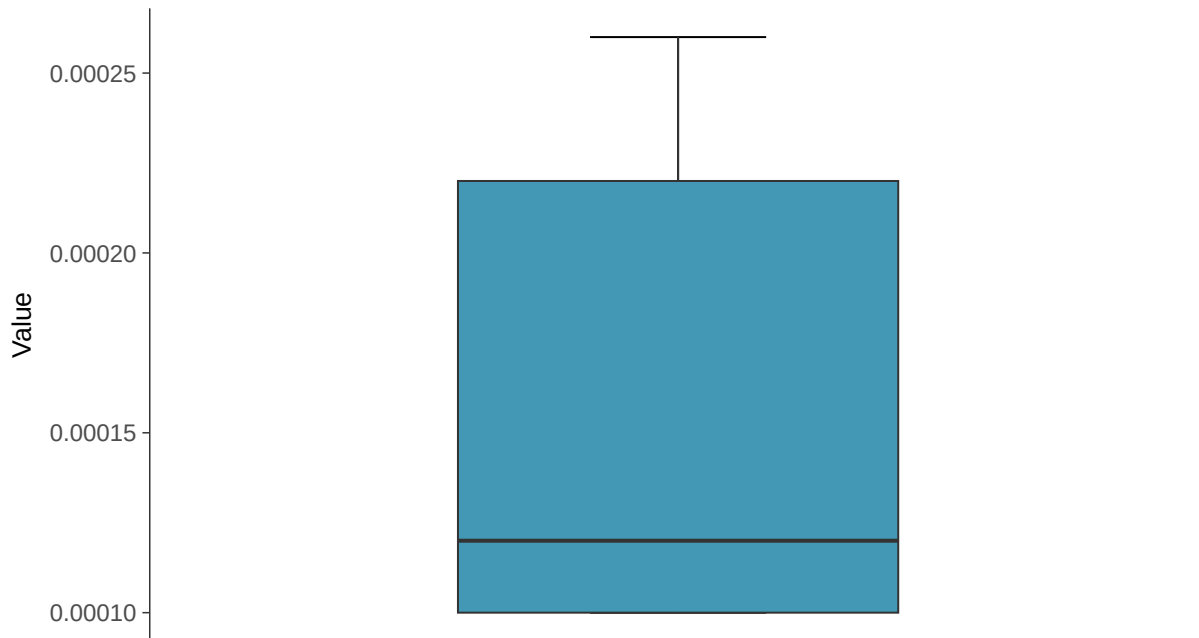
Radium 226 and 228, MW-20 (pCi/L)





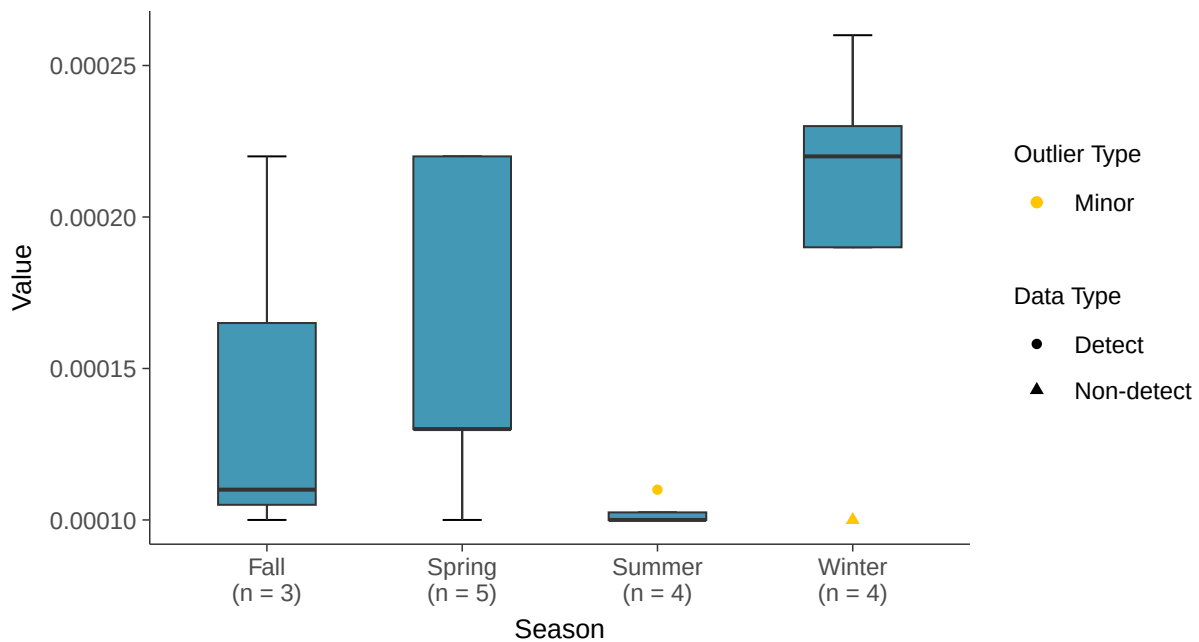
Boxplot

Selenium, MW-20 (mg/L)

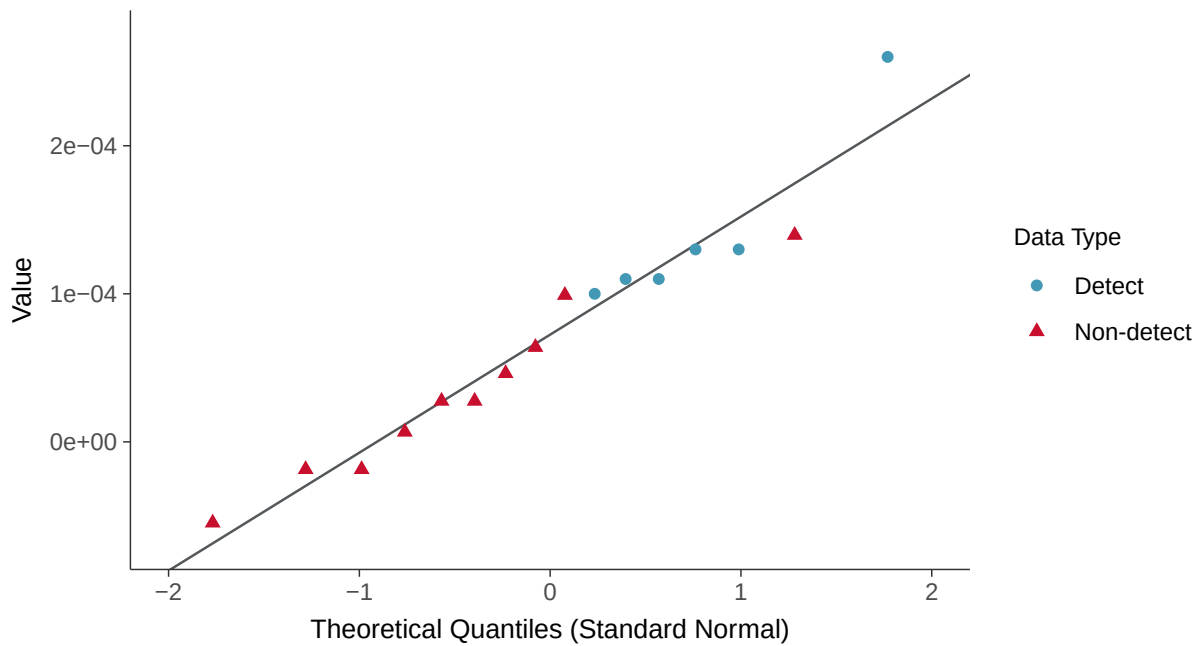


Boxplot by Season

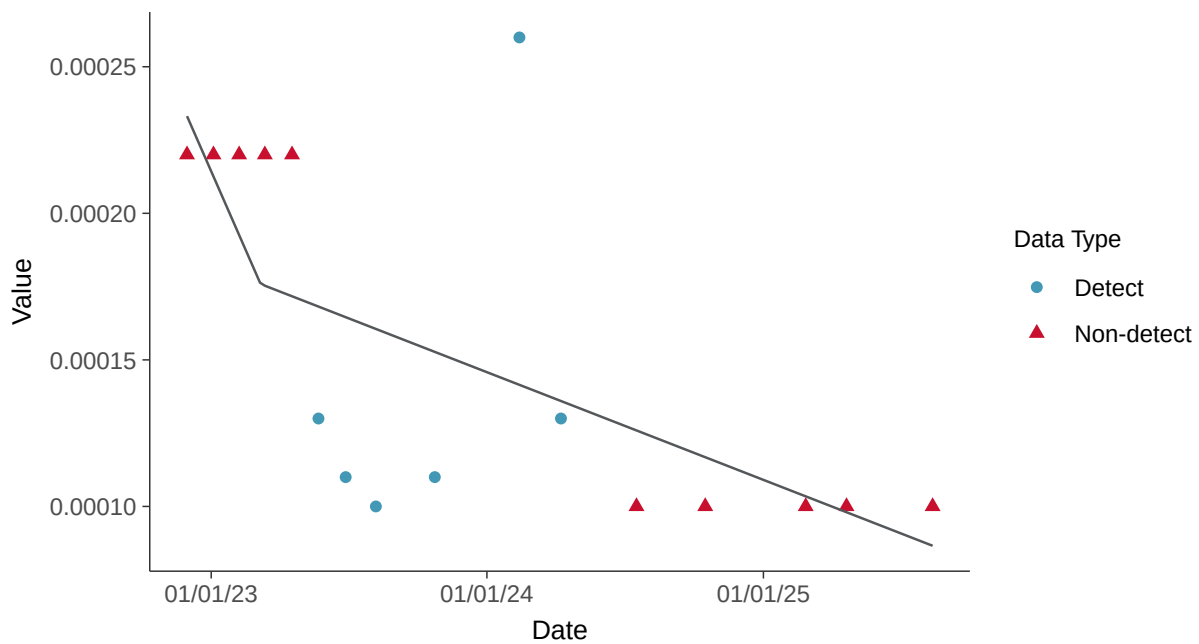
Selenium, MW-20 (mg/L)

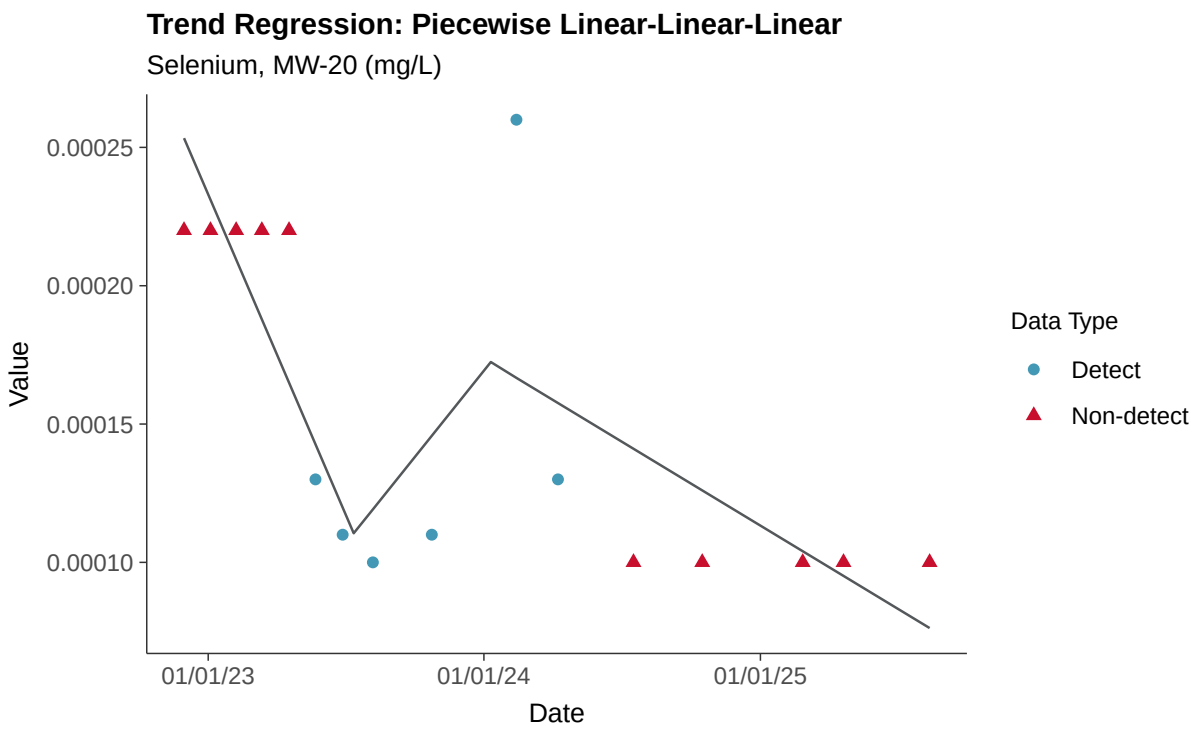


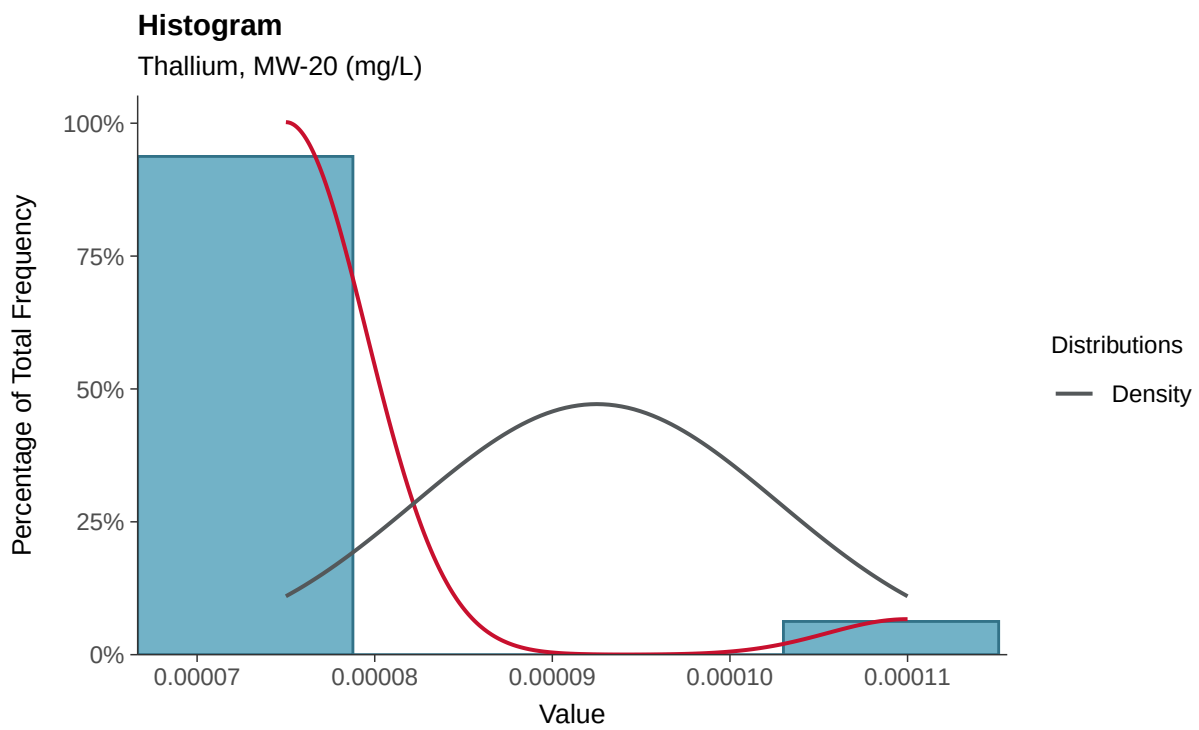
Selenium, MW-20 (mg/L)



Selenium, MW-20 (mg/L)

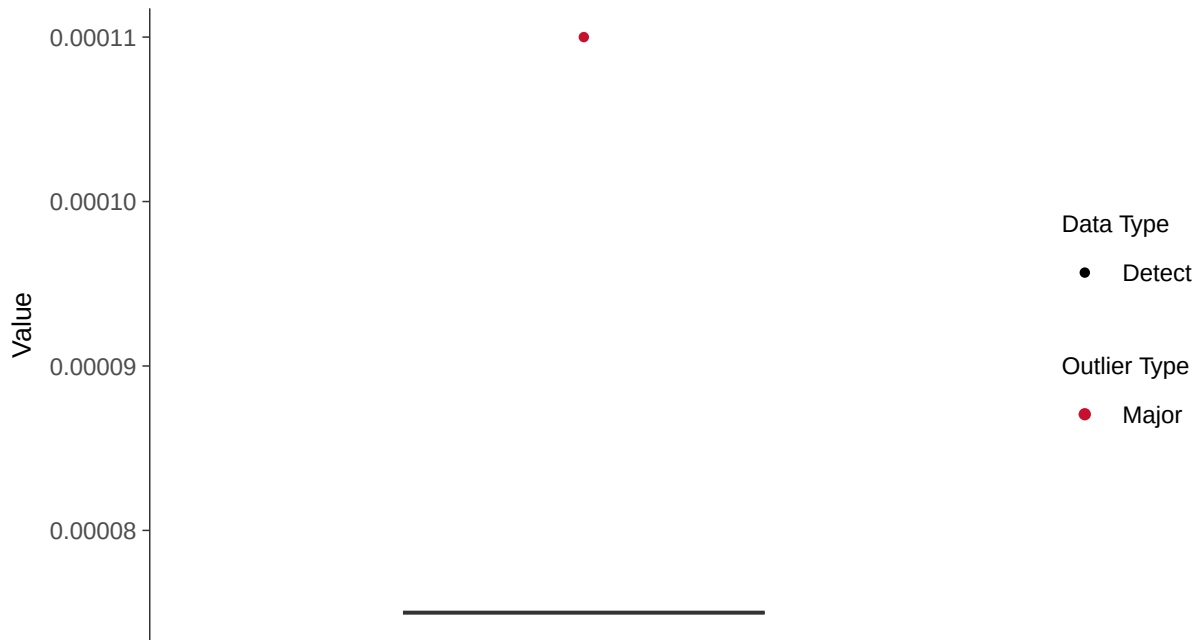






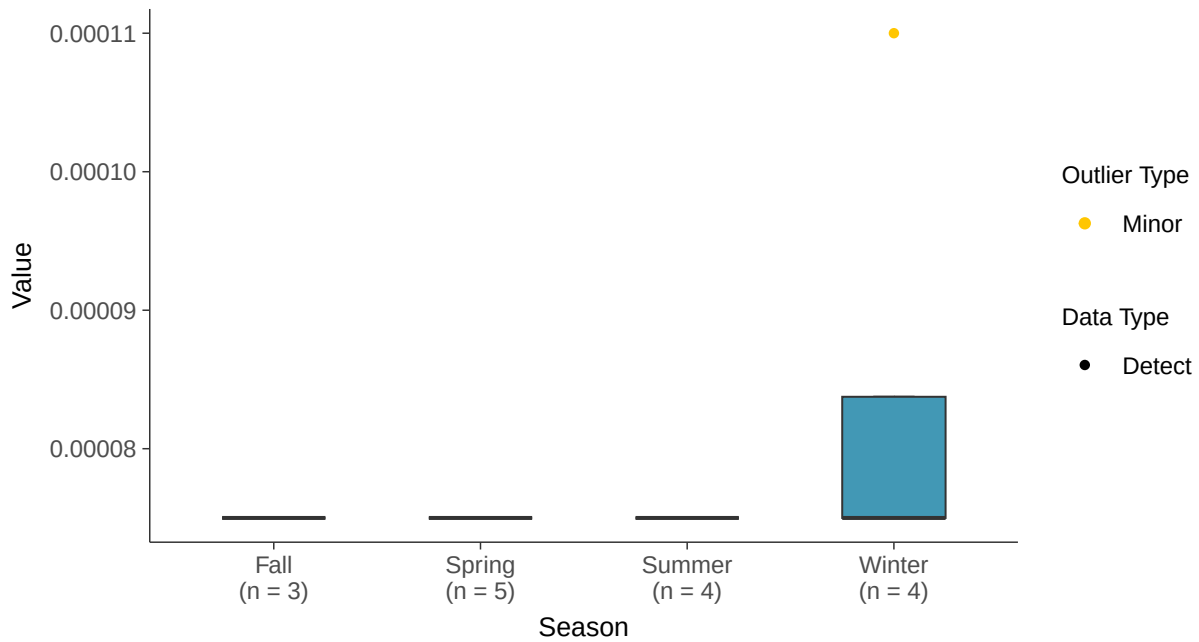
Boxplot

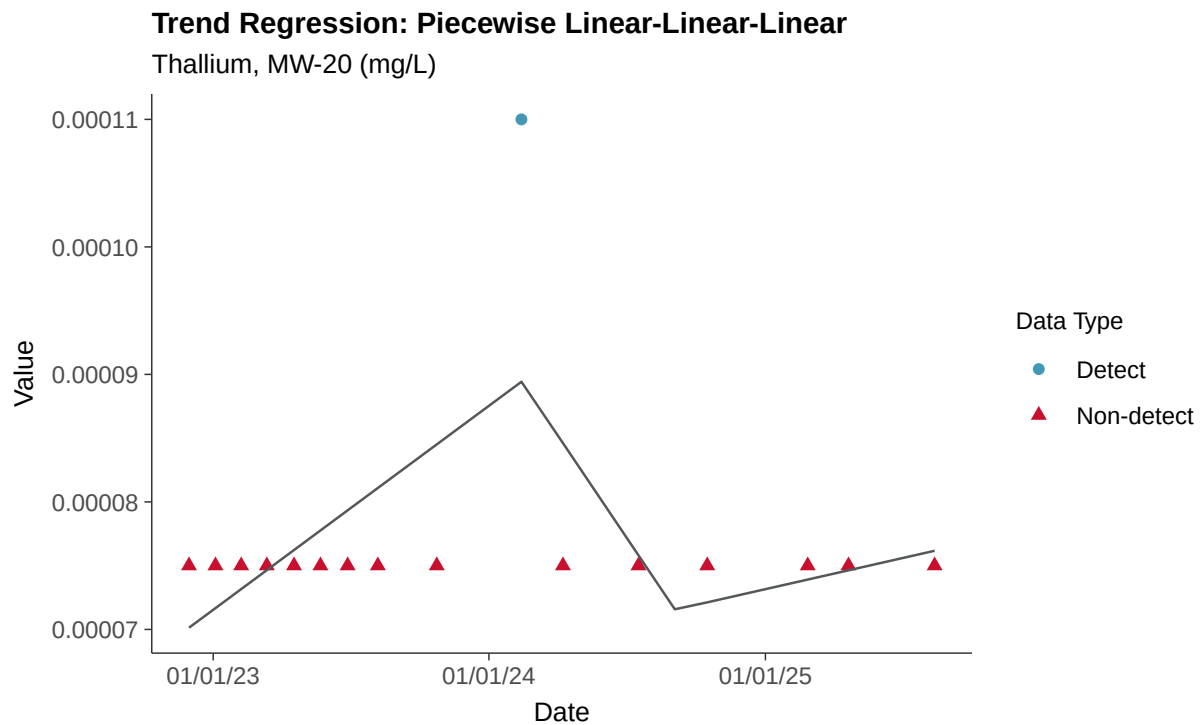
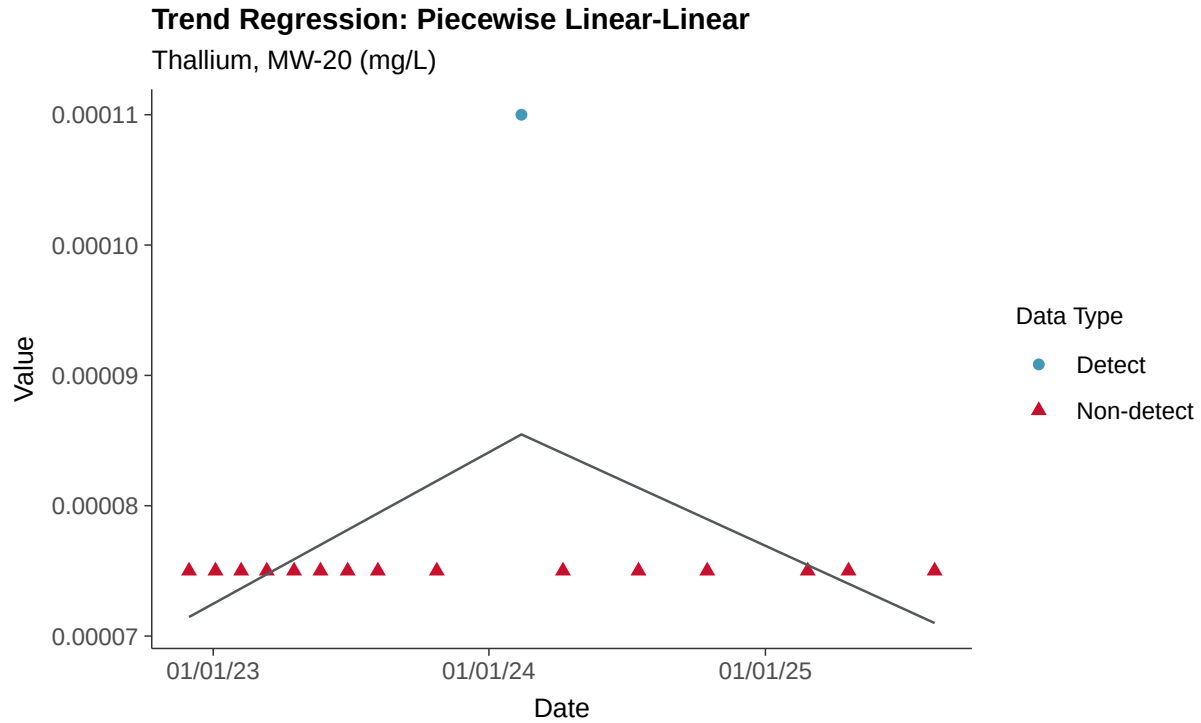
Thallium, MW-20 (mg/L)



Boxplot by Season

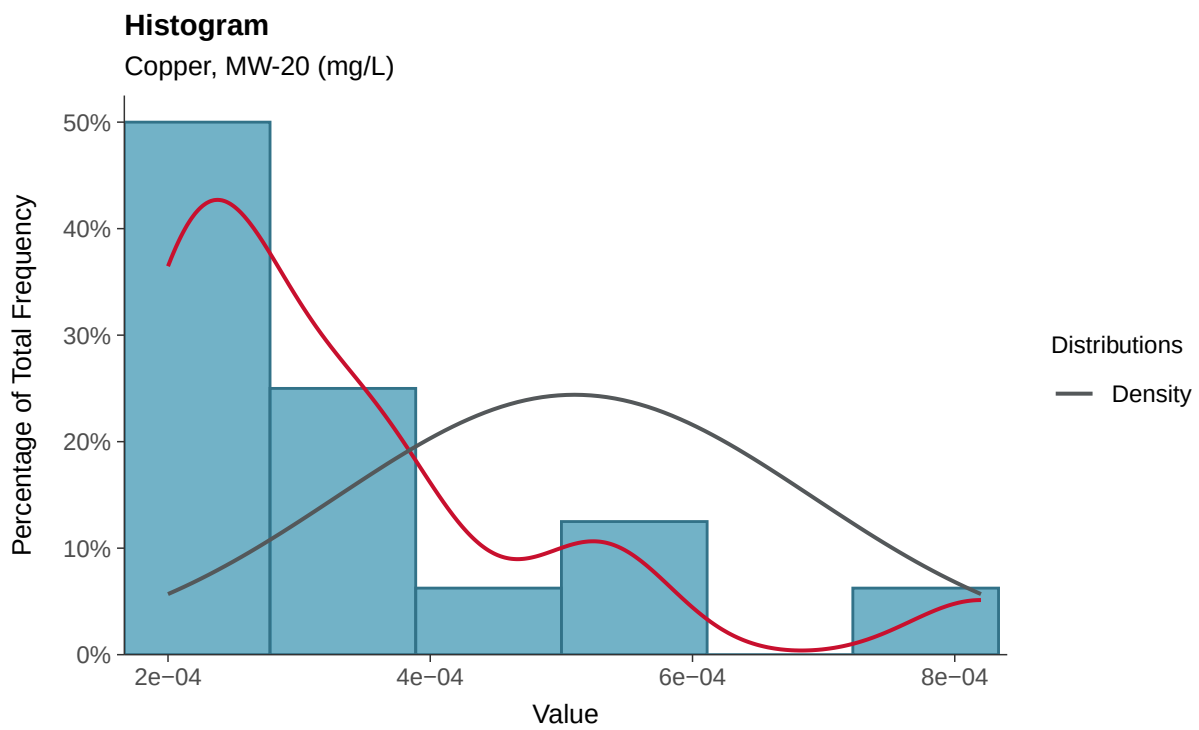
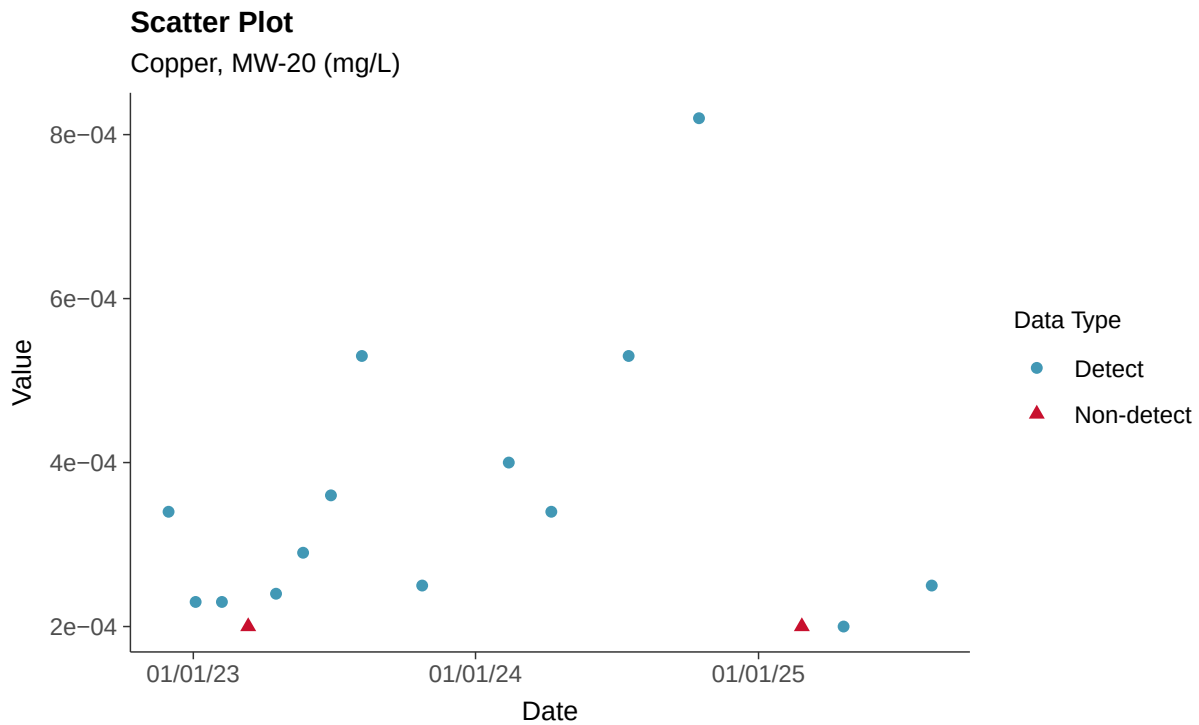
Thallium, MW-20 (mg/L)





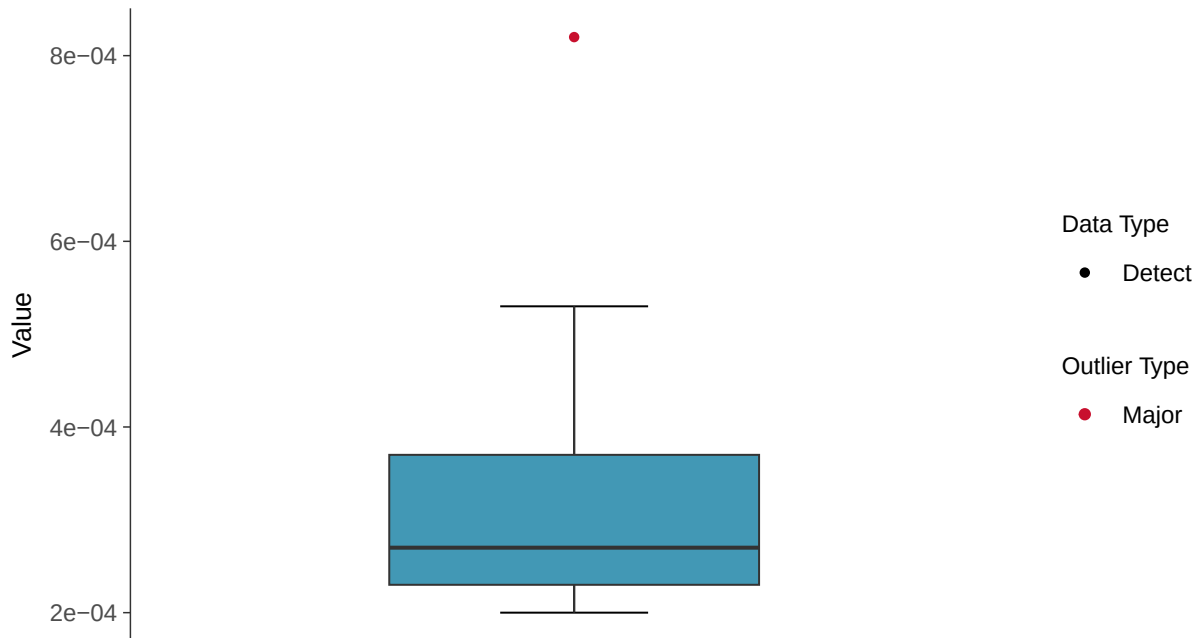
Part 115: Copper, MW-20

ID: 30_1_5_111



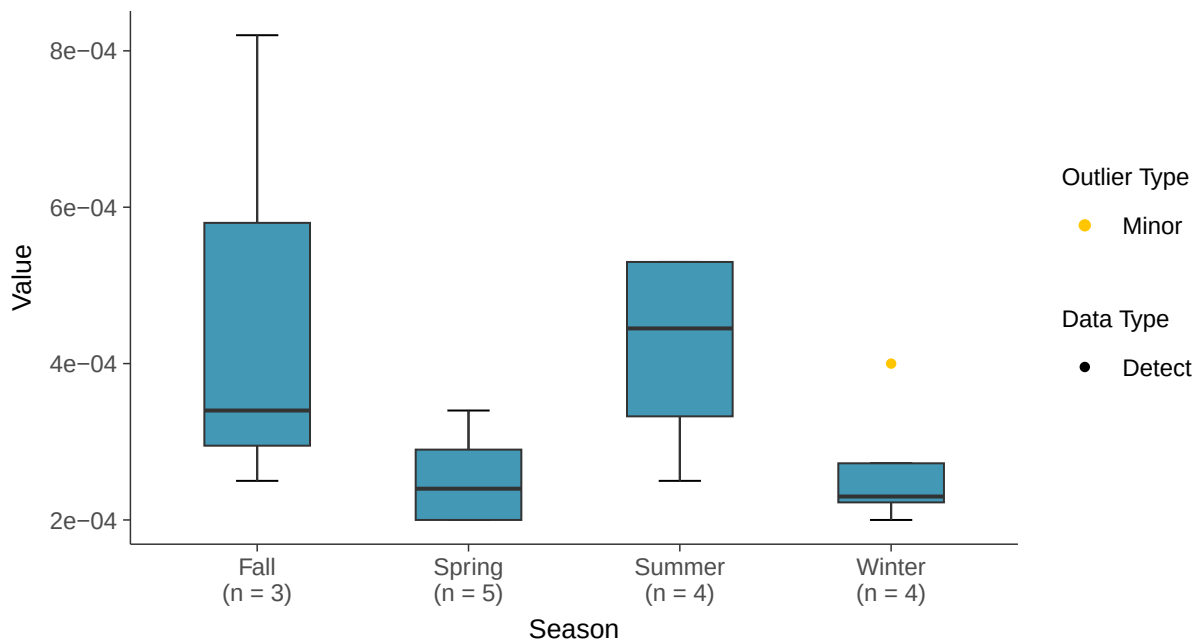
Boxplot

Copper, MW-20 (mg/L)



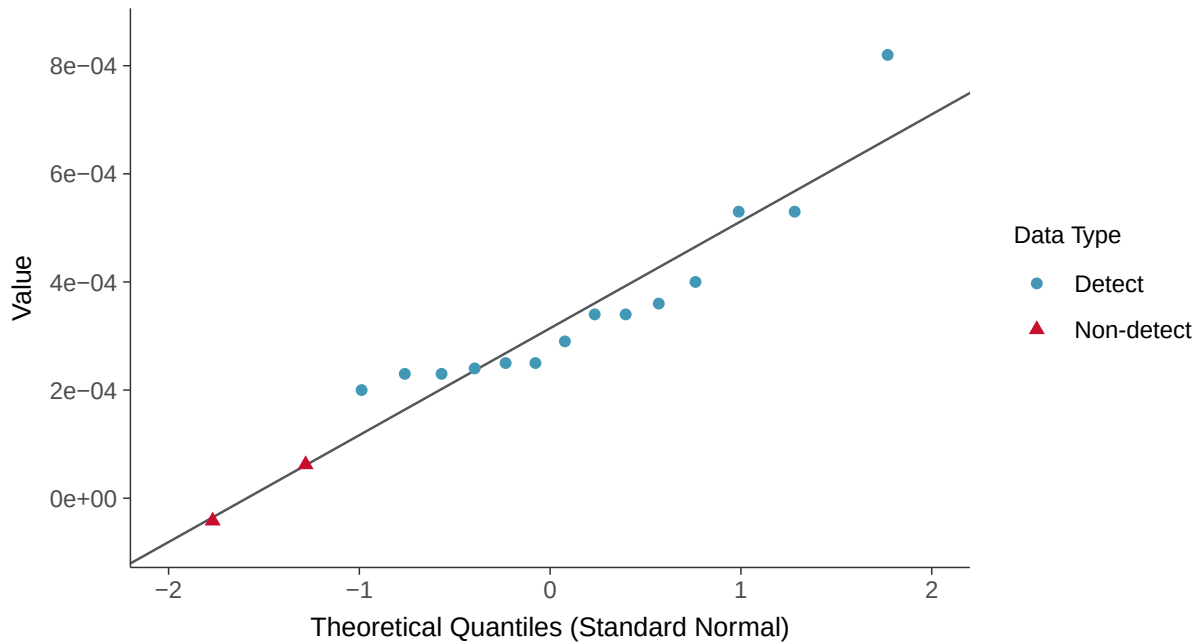
Boxplot by Season

Copper, MW-20 (mg/L)



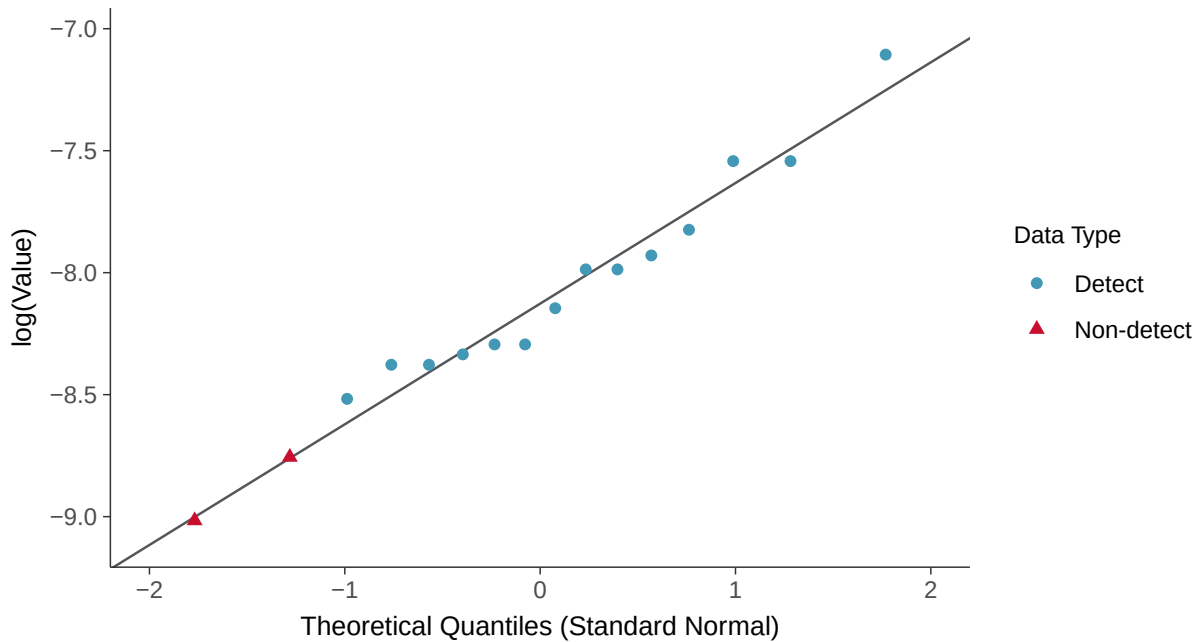
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-20 (mg/L)



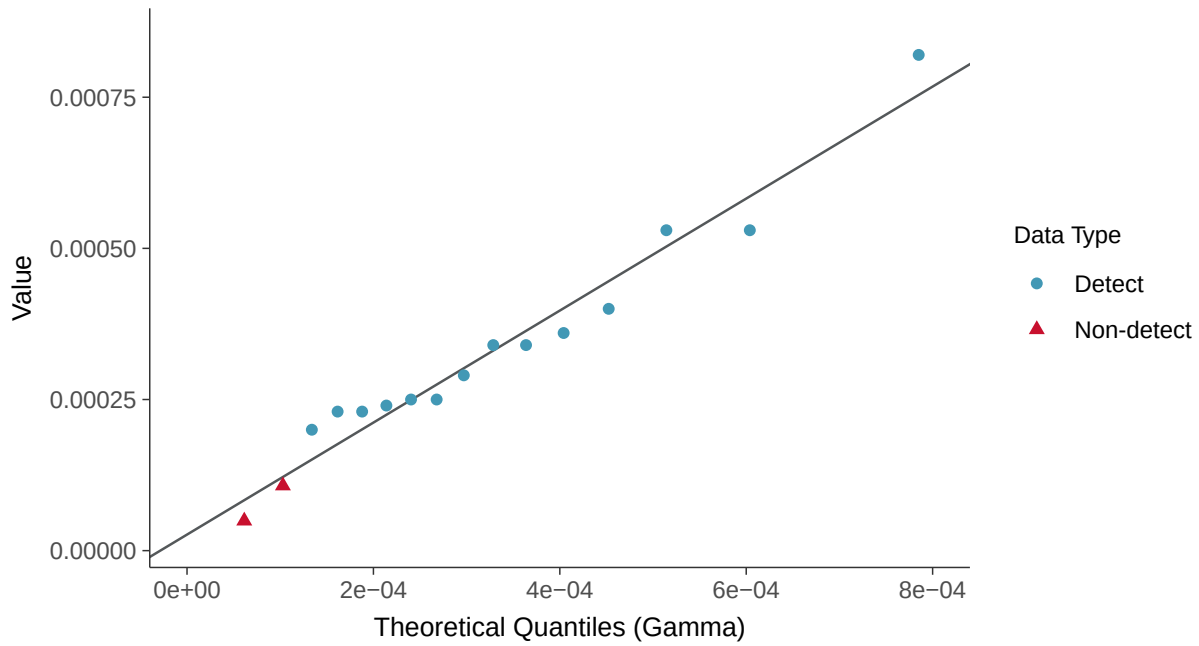
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-20 (mg/L)



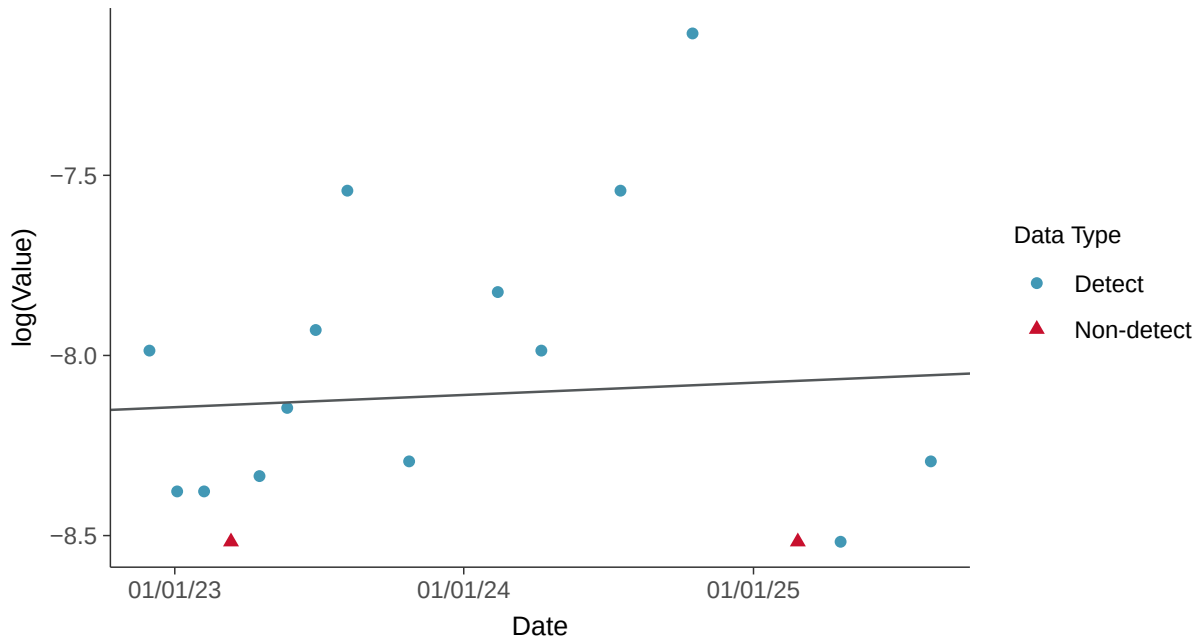
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-20 (mg/L)



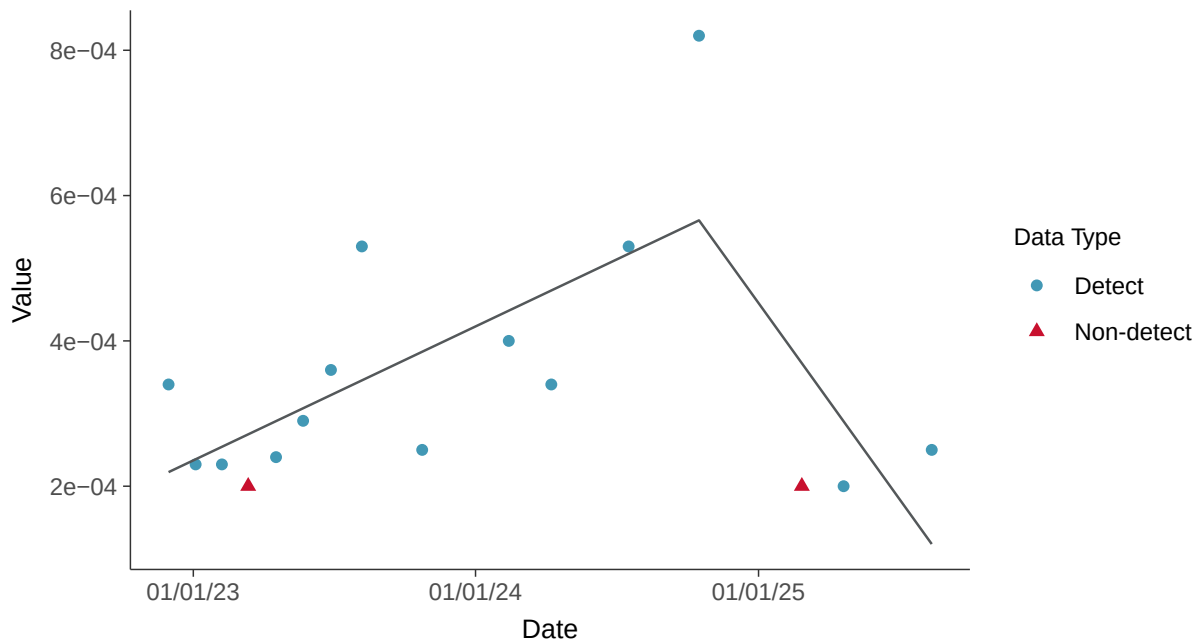
Trend Regression: Lognormal MLE

Copper, MW-20 (mg/L)



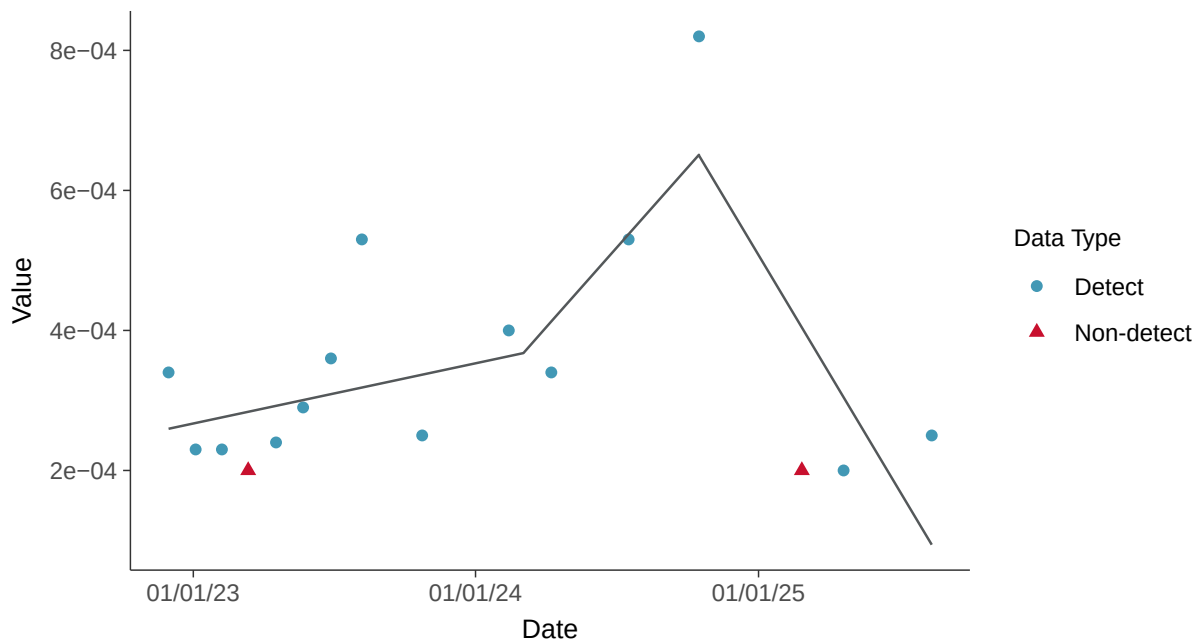
Trend Regression: Piecewise Linear-Linear

Copper, MW-20 (mg/L)



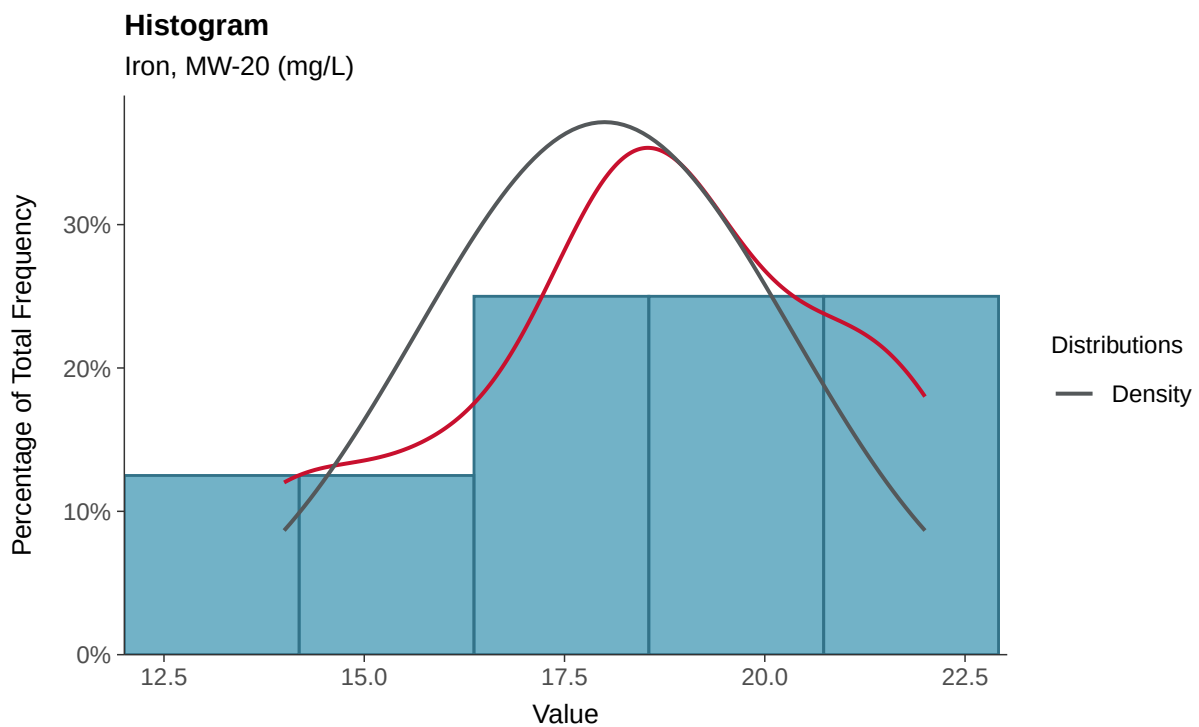
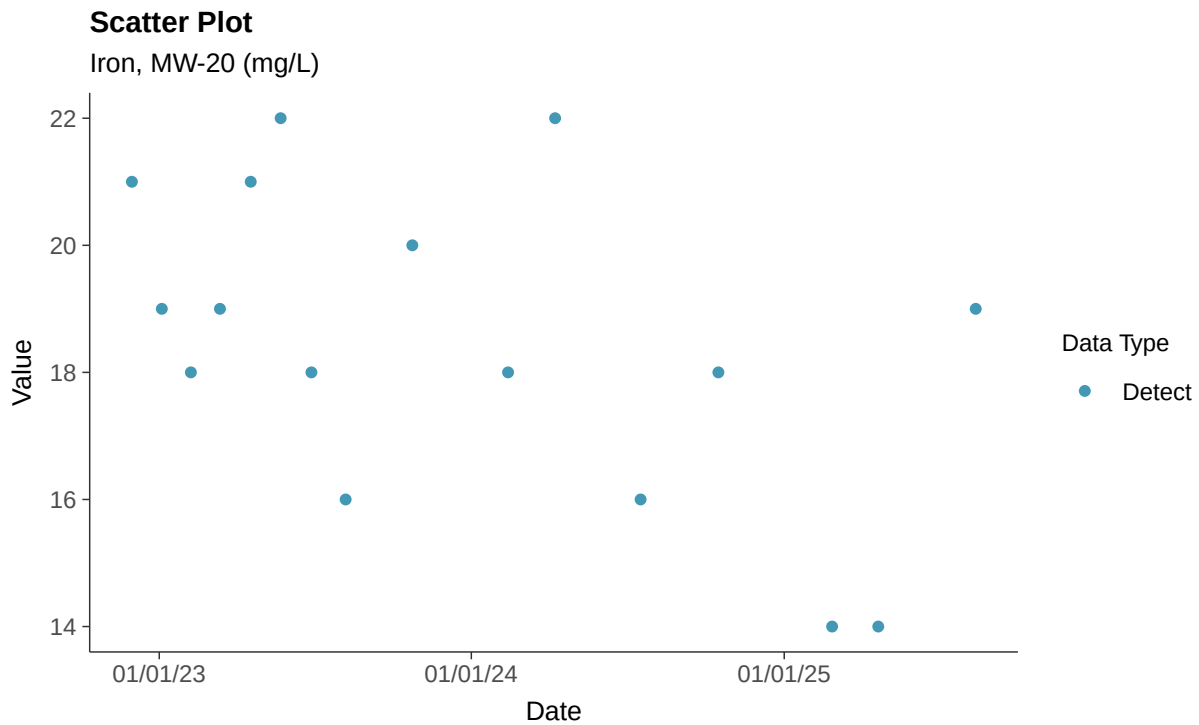
Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-20 (mg/L)



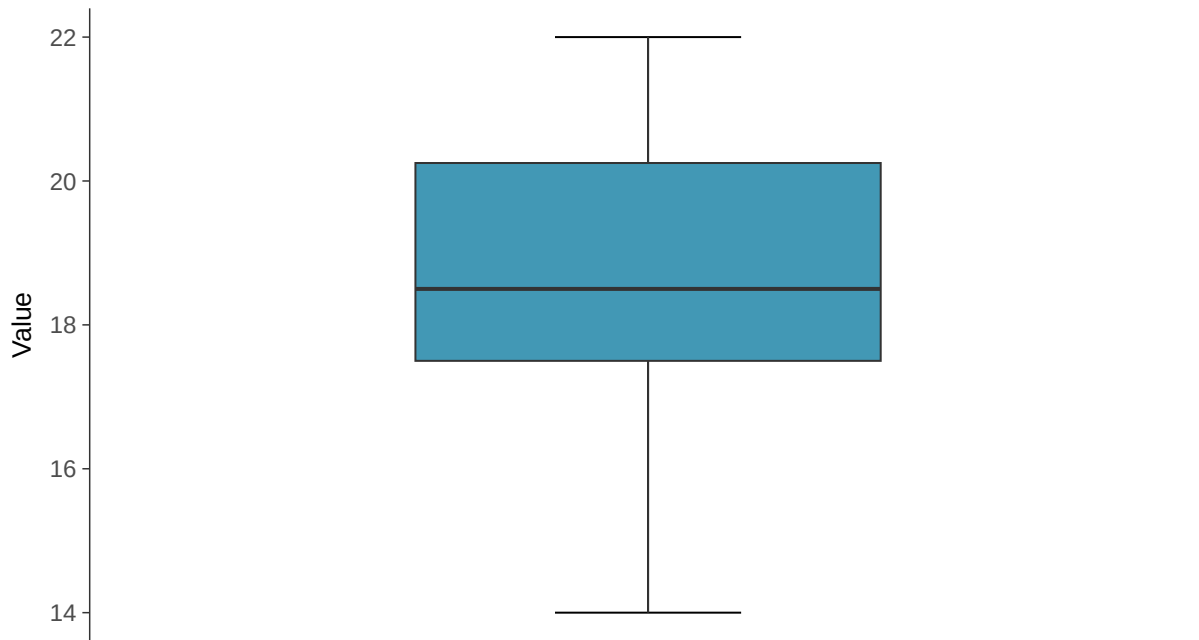
Part 115: Iron, MW-20

ID: 30_1_5_114



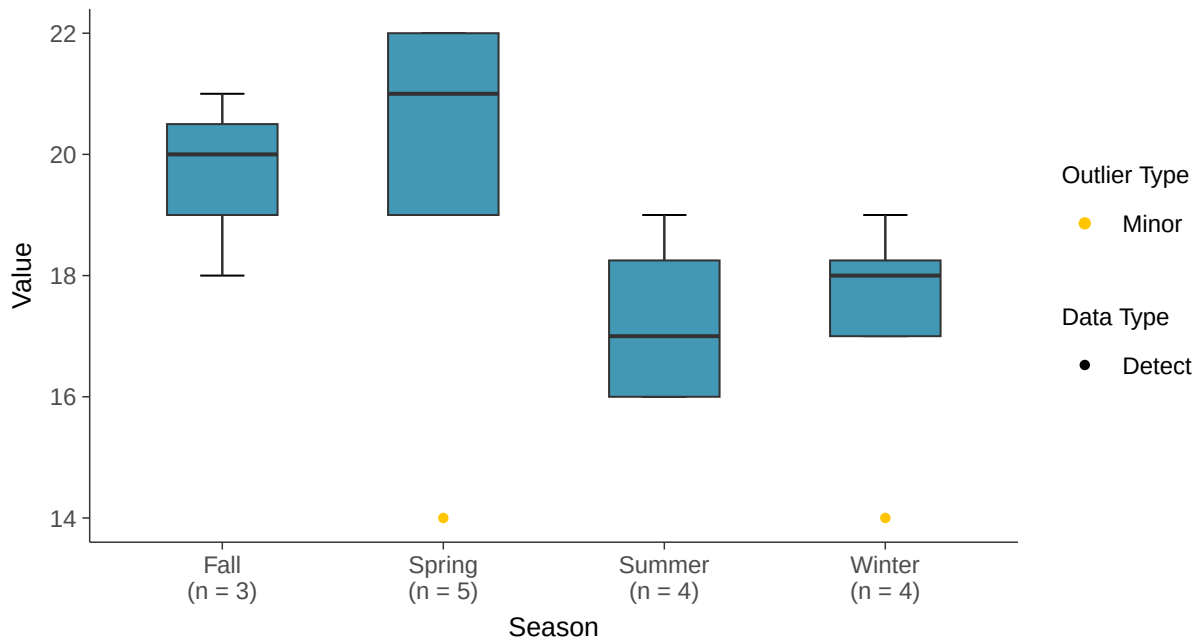
Boxplot

Iron, MW-20 (mg/L)

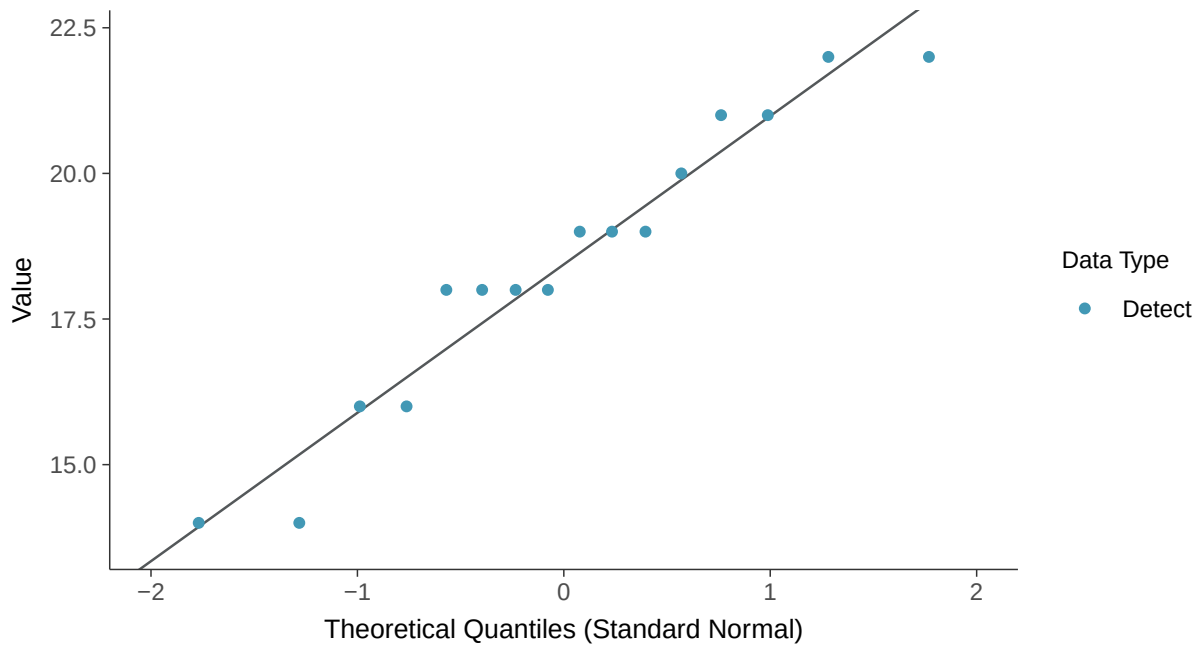


Boxplot by Season

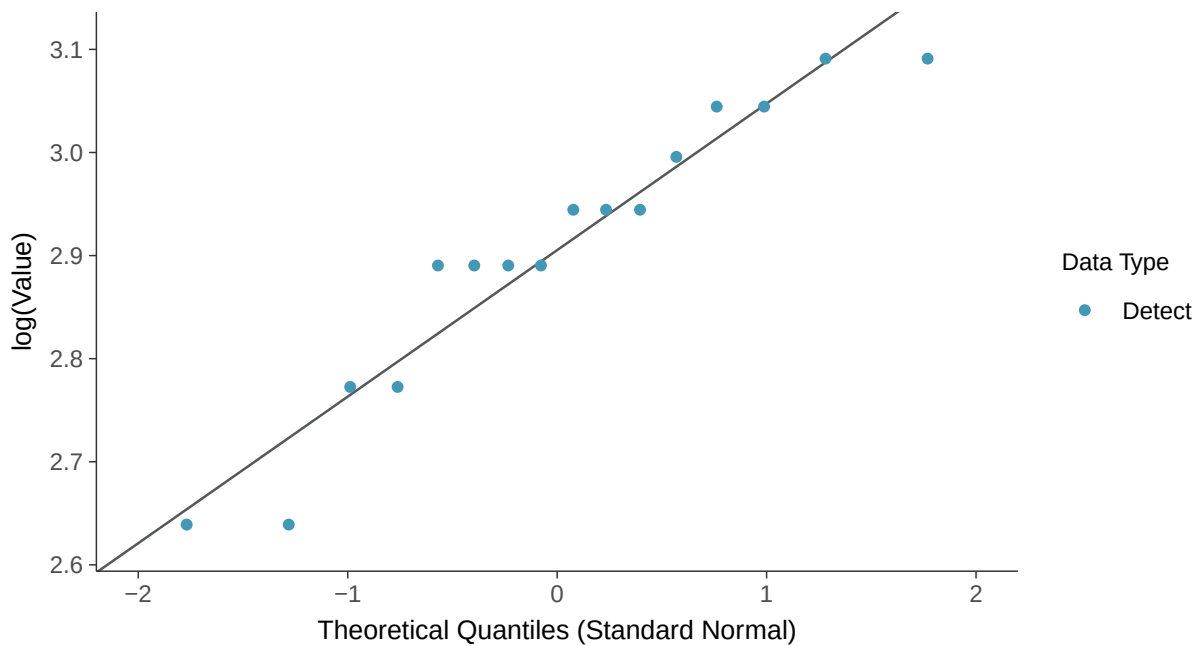
Iron, MW-20 (mg/L)

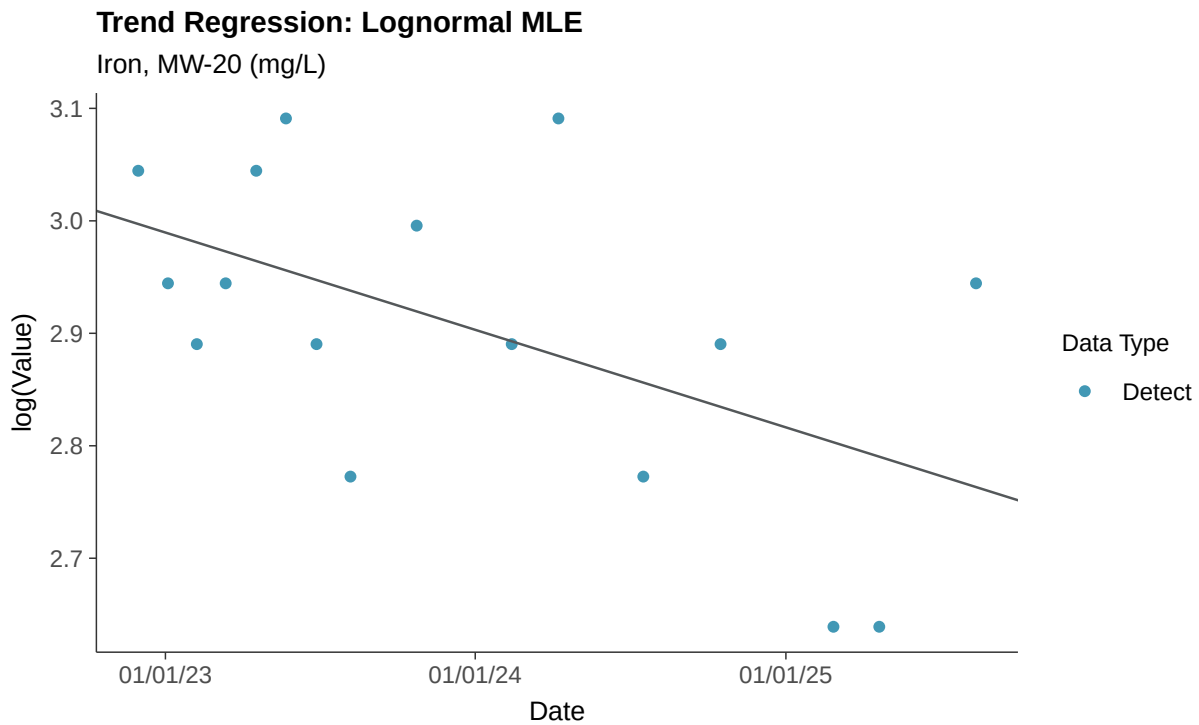
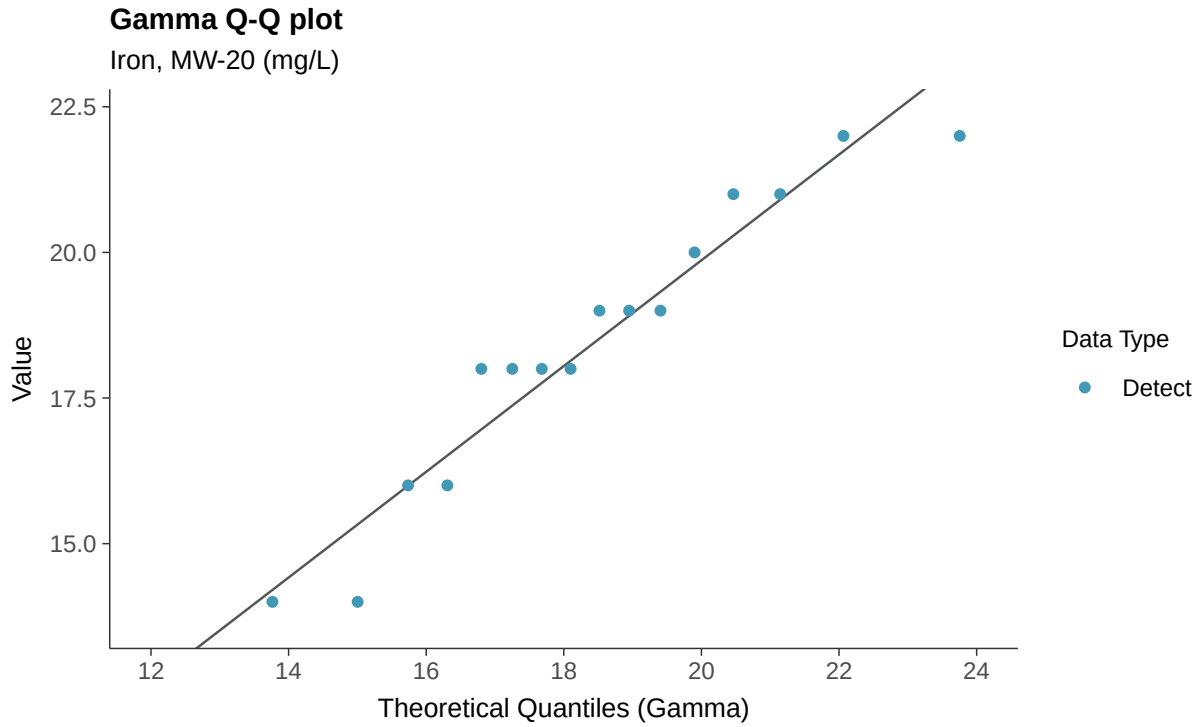


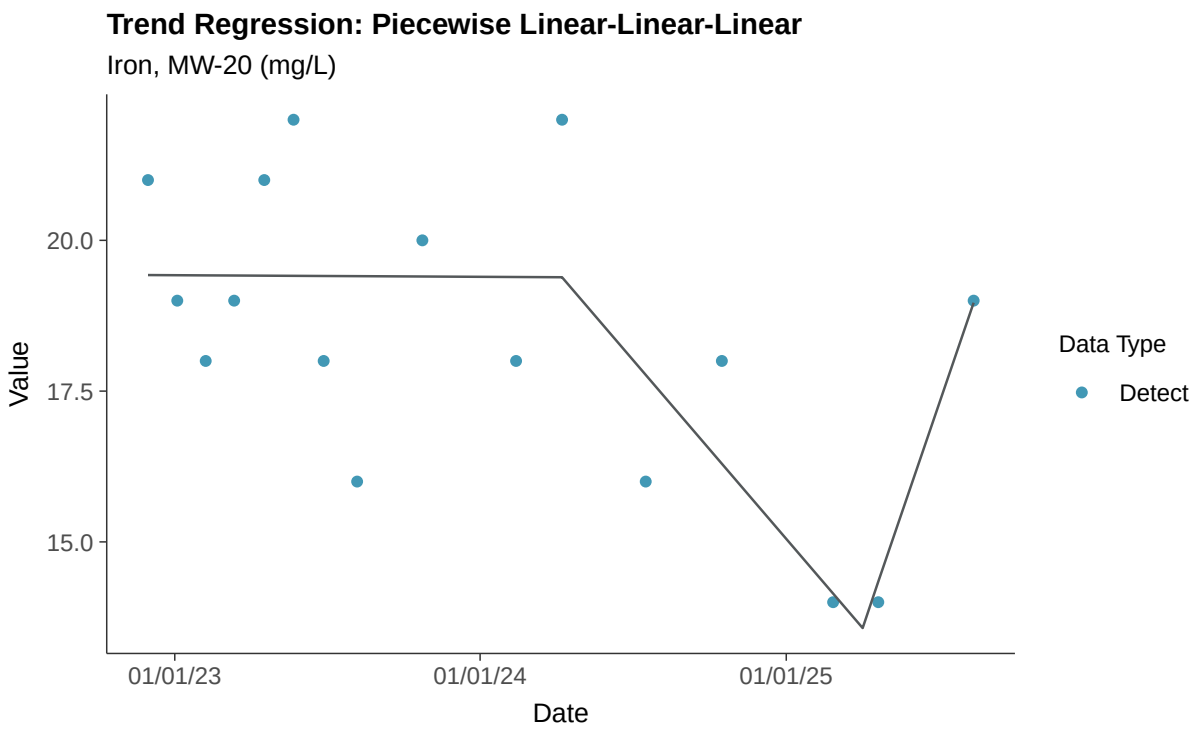
Normal Q-Q plot
Iron, MW-20 (mg/L)



Lognormal Q-Q plot
Iron, MW-20 (mg/L)

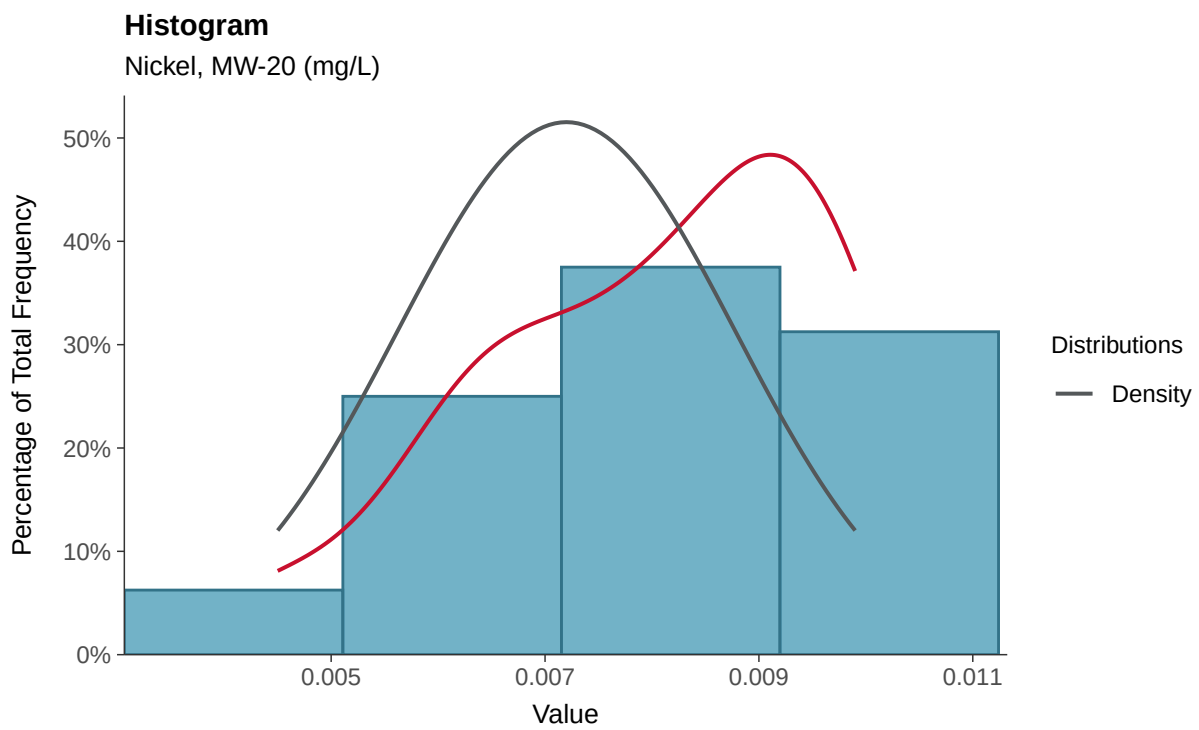
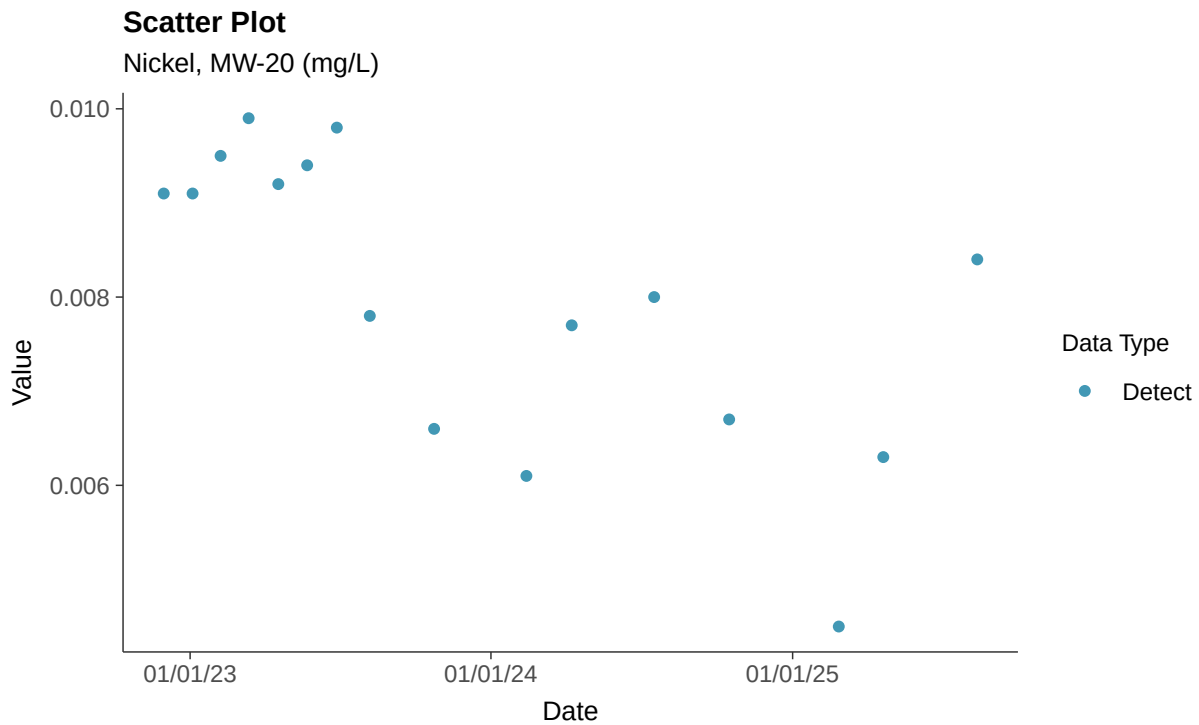






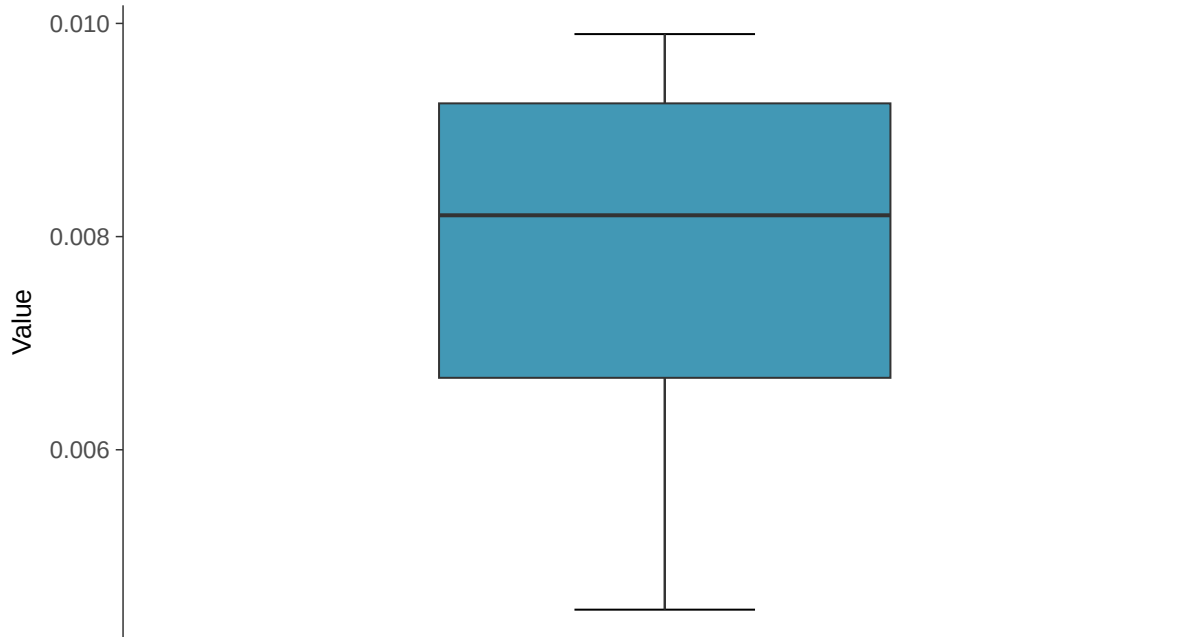
Part 115: Nickel, MW-20

ID: 30_1_5_119



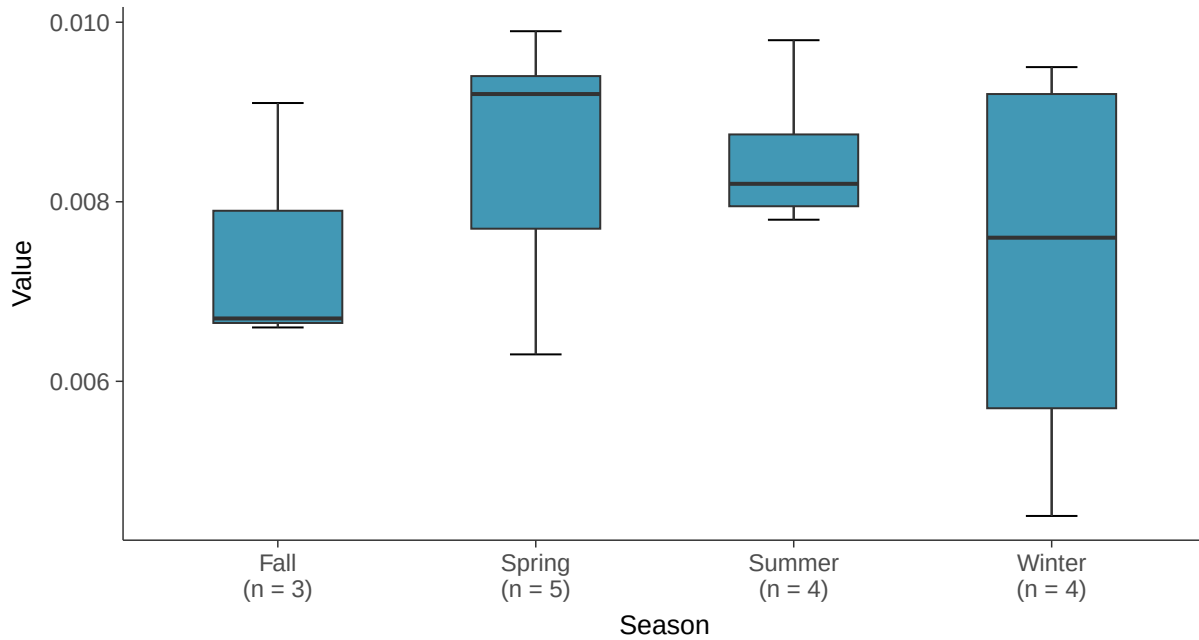
Boxplot

Nickel, MW-20 (mg/L)



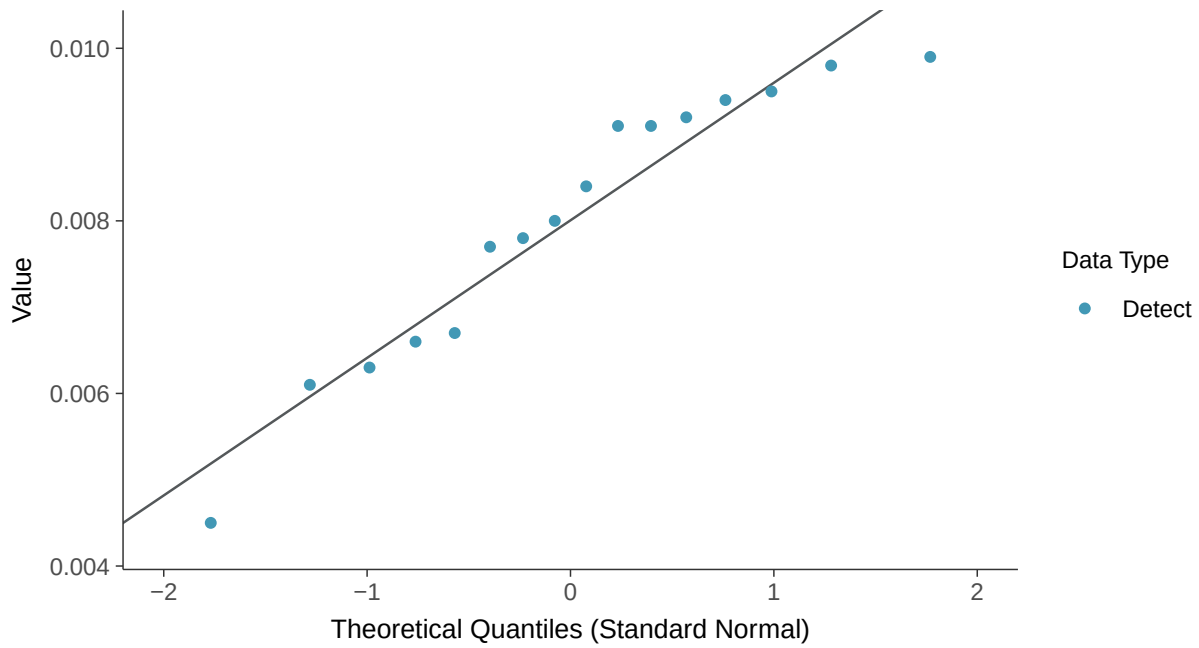
Boxplot by Season

Nickel, MW-20 (mg/L)



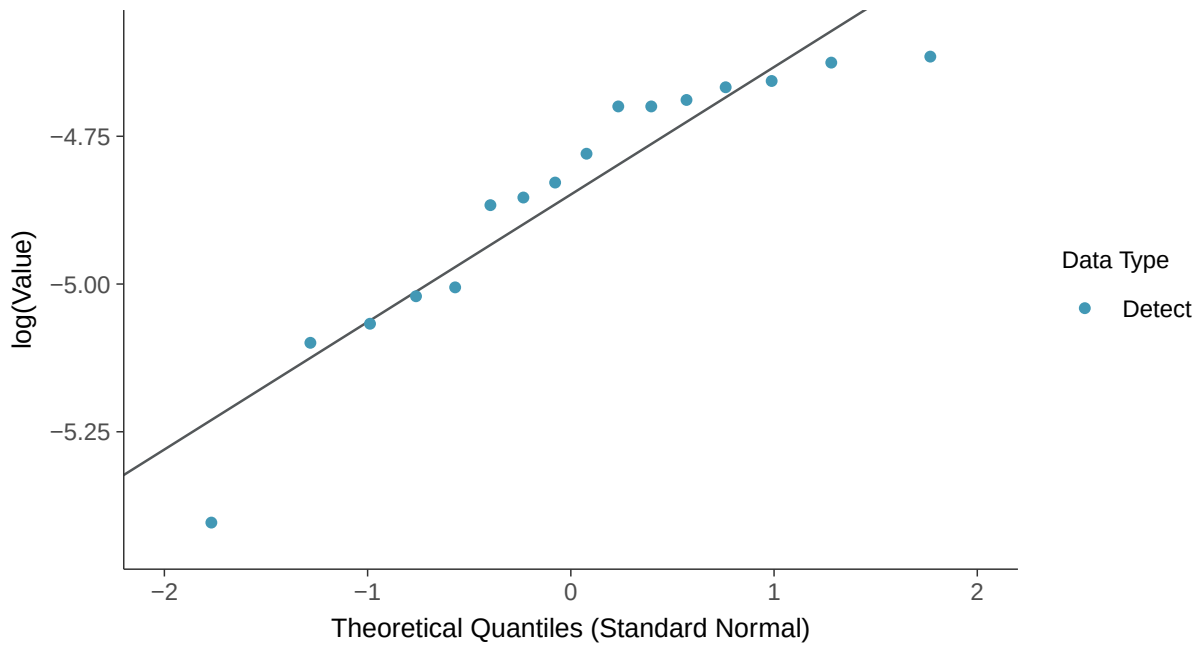
Normal Q-Q plot

Nickel, MW-20 (mg/L)

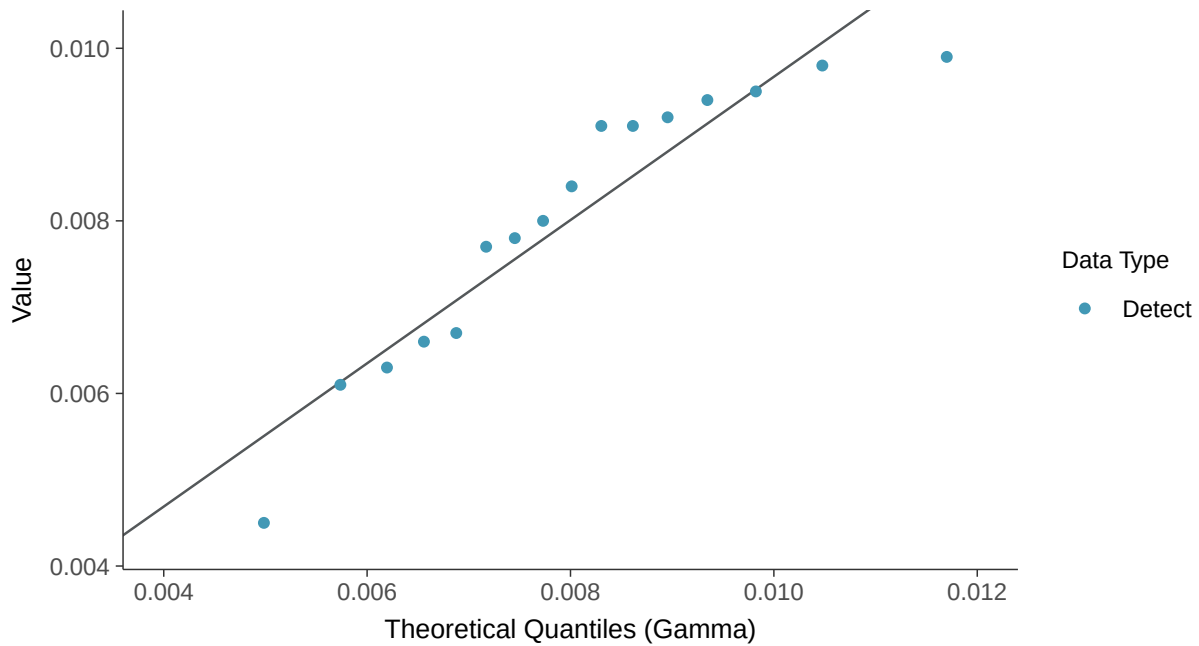


Lognormal Q-Q plot

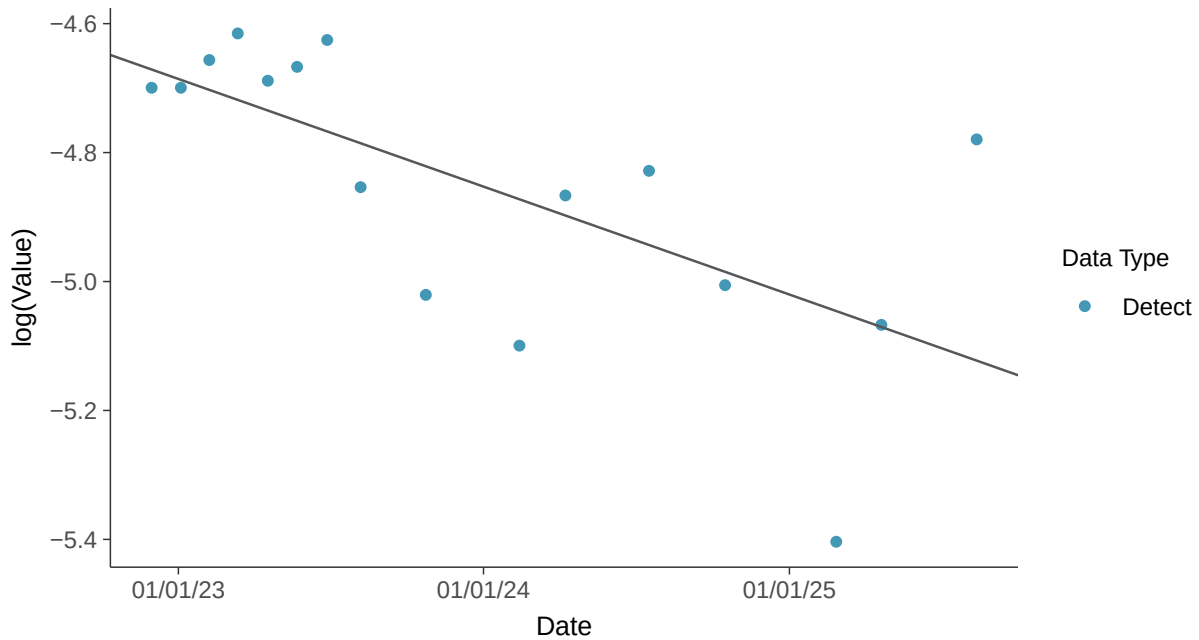
Nickel, MW-20 (mg/L)



Gamma Q-Q plot
Nickel, MW-20 (mg/L)

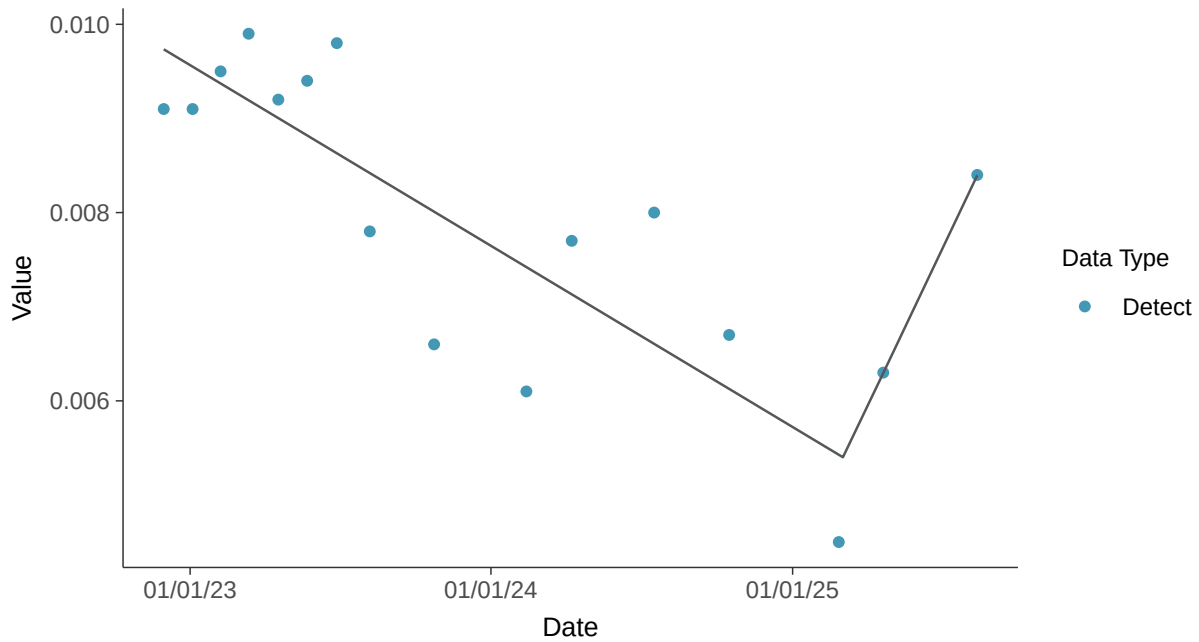


Trend Regression: Lognormal MLE
Nickel, MW-20 (mg/L)



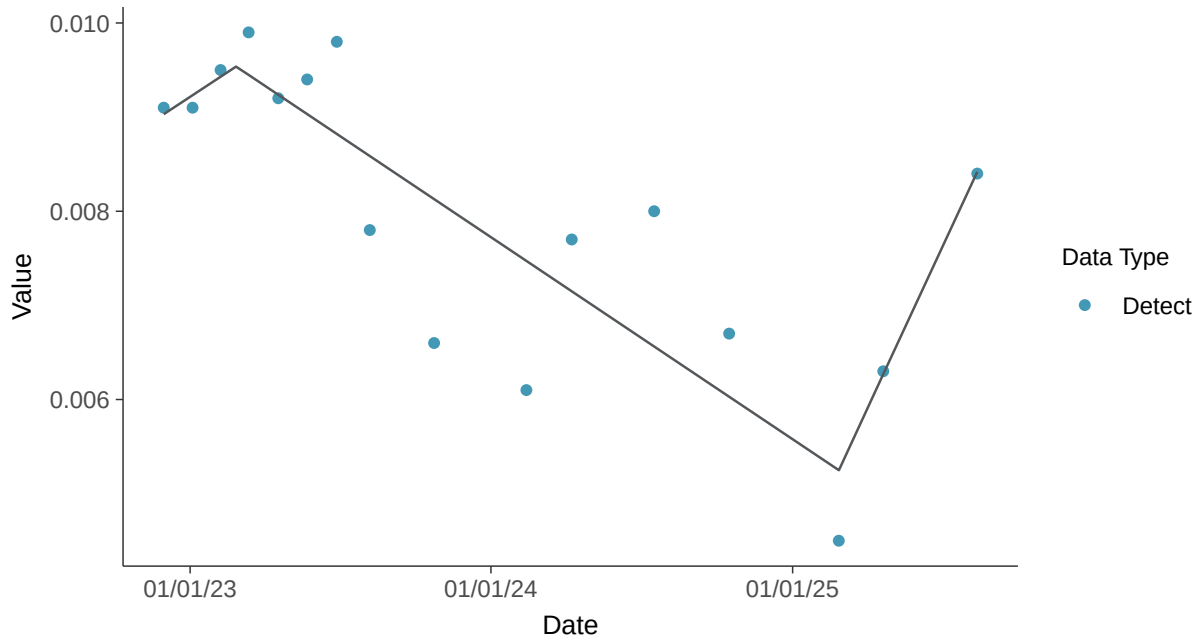
Trend Regression: Piecewise Linear-Linear

Nickel, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

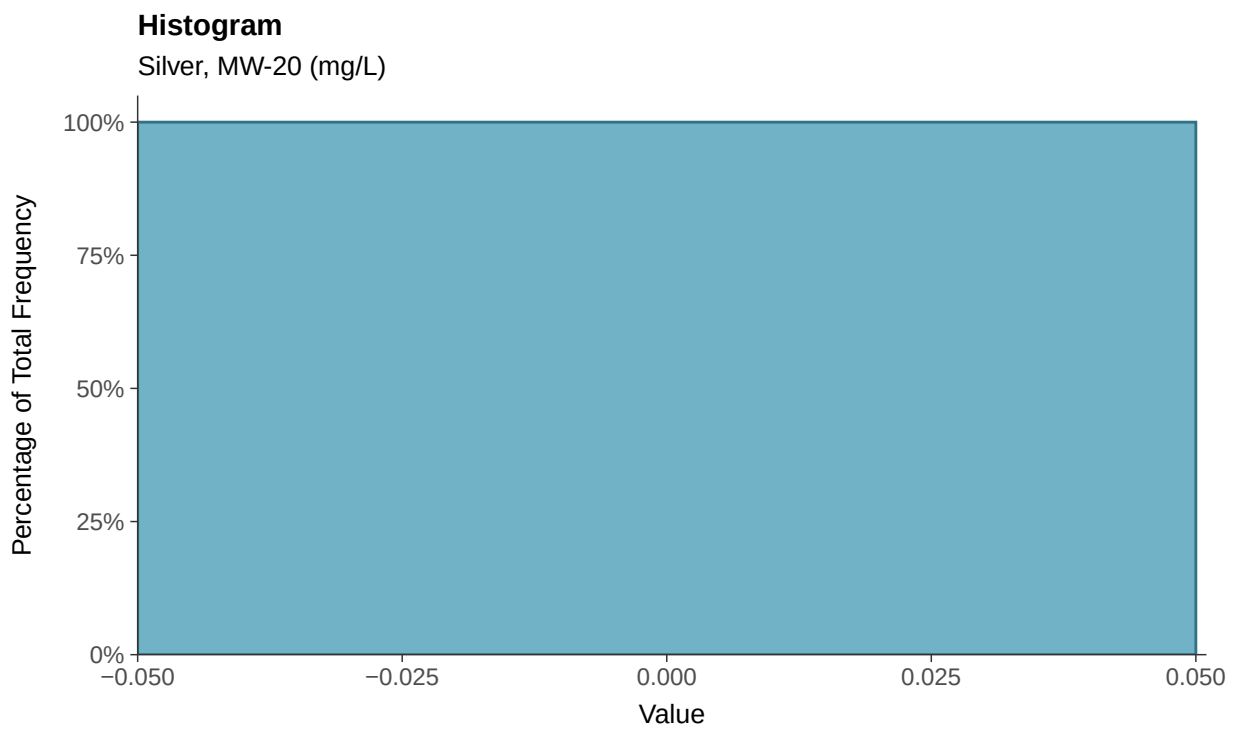
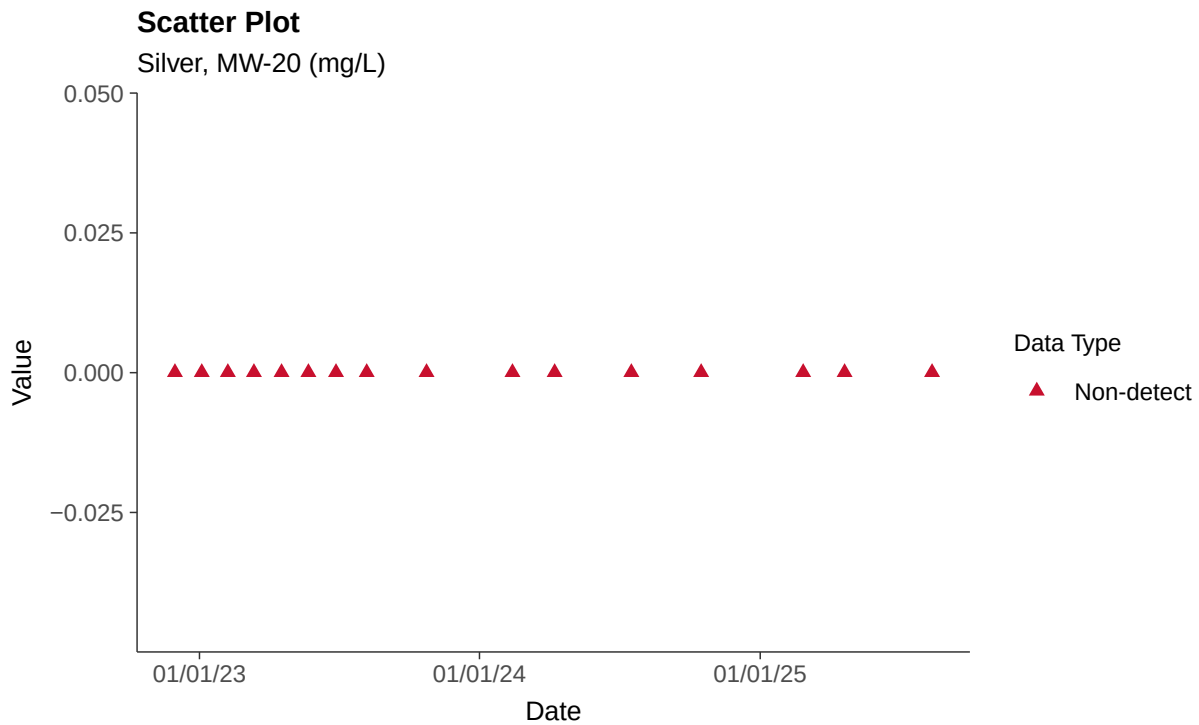
Nickel, MW-20 (mg/L)





Part 115: Silver, MW-20

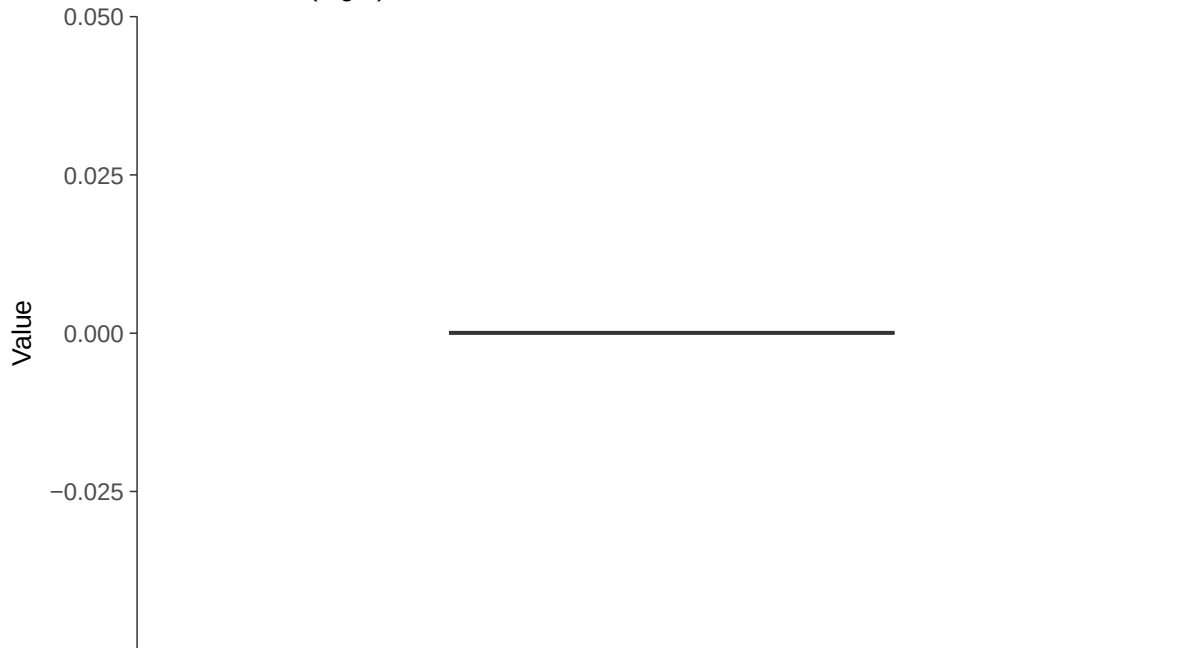
ID: 30_1_5_123





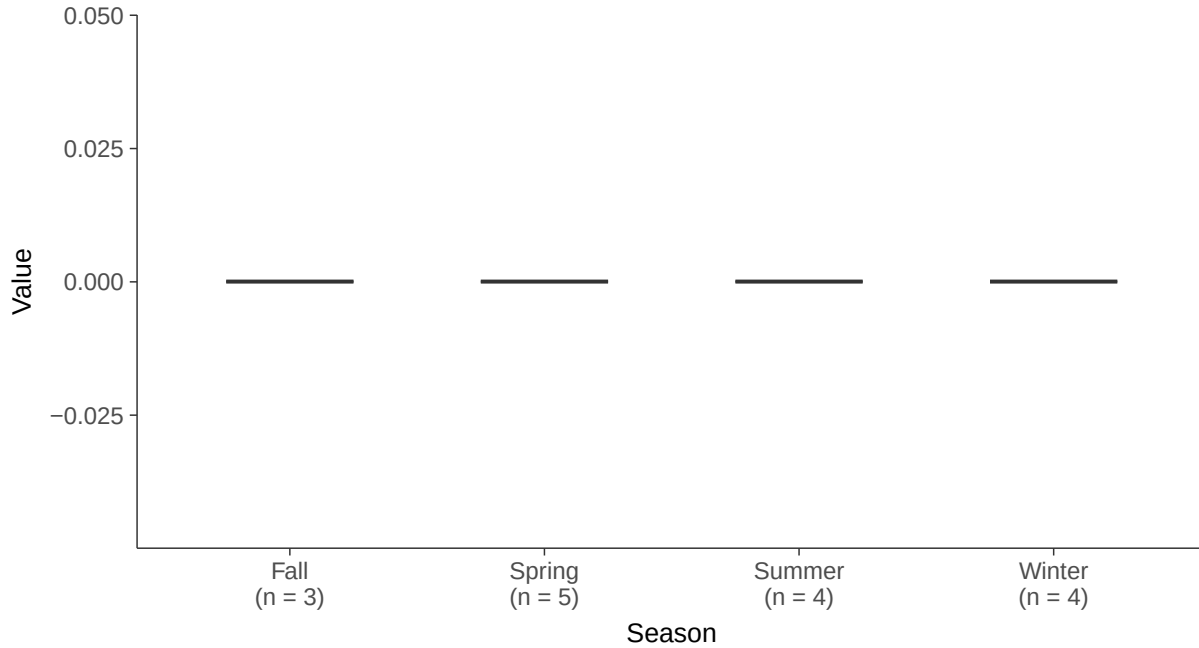
Boxplot

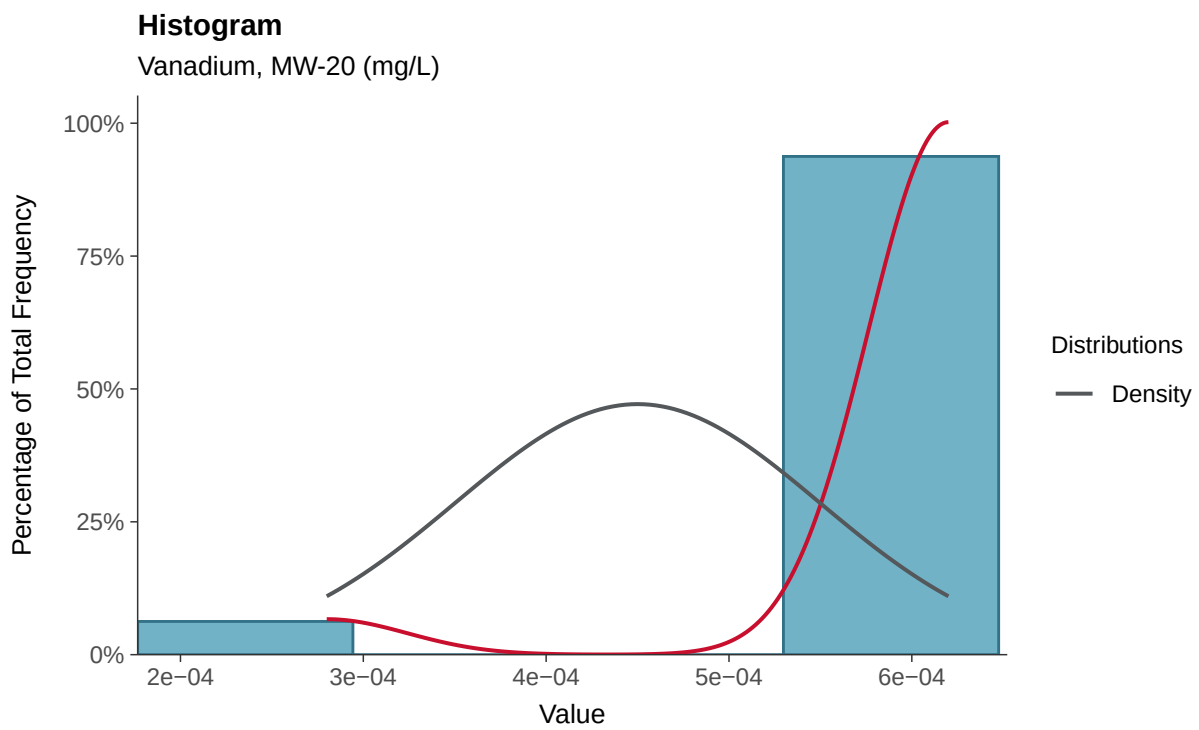
Silver, MW-20 (mg/L)



Boxplot by Season

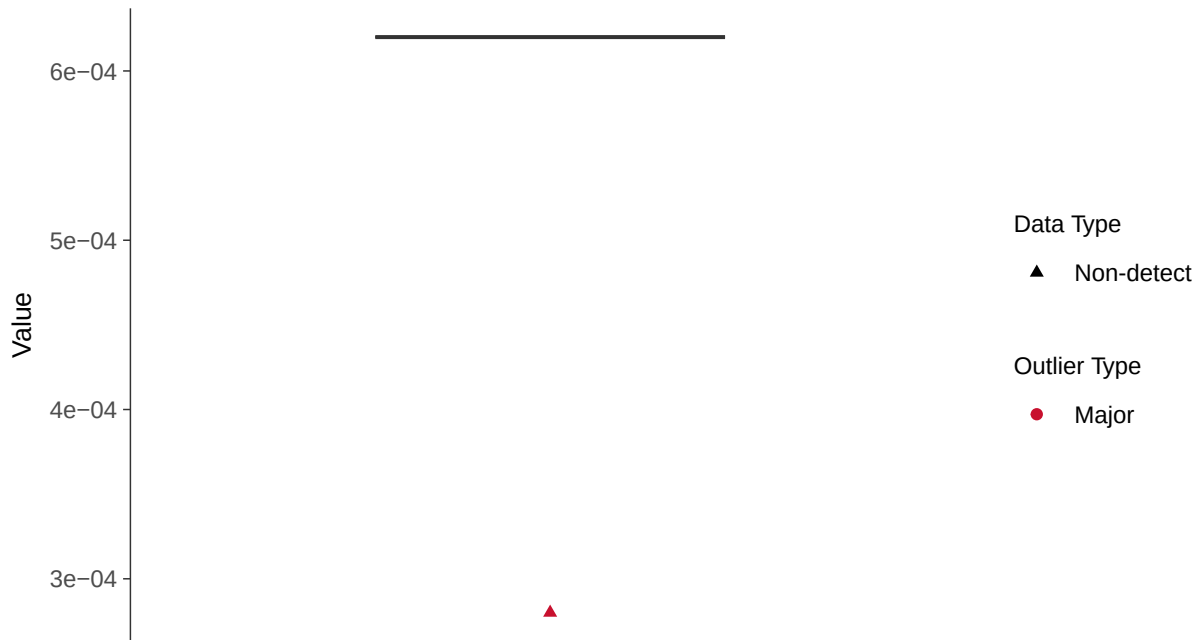
Silver, MW-20 (mg/L)





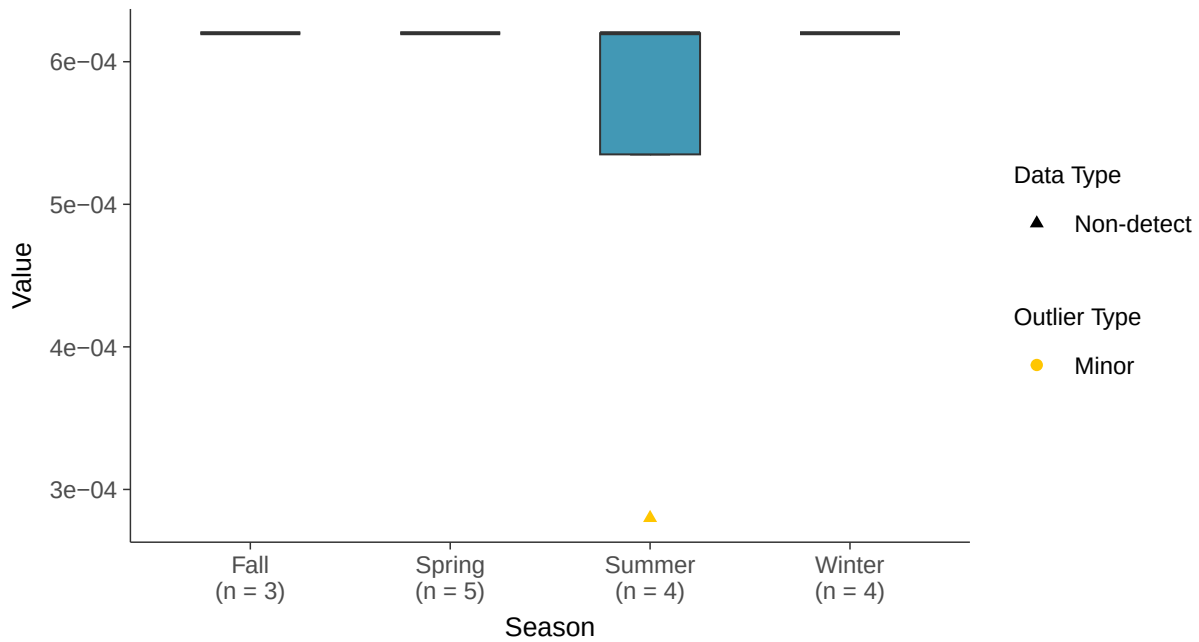
Boxplot

Vanadium, MW-20 (mg/L)



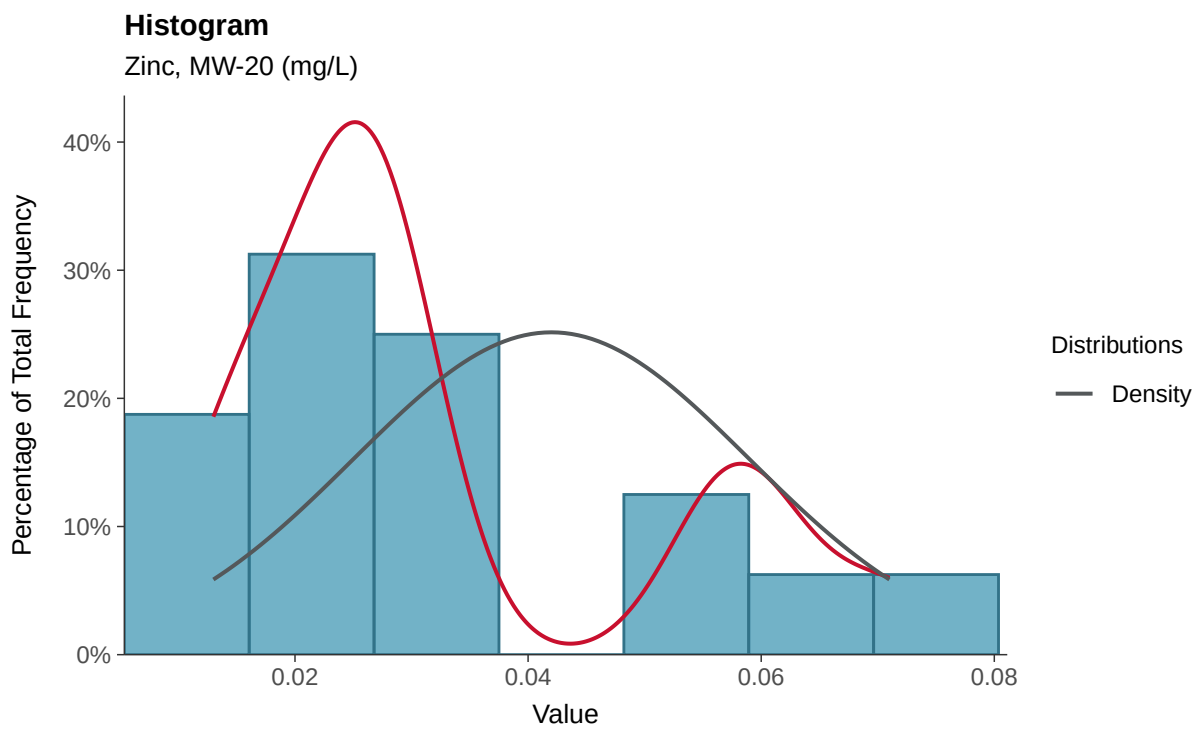
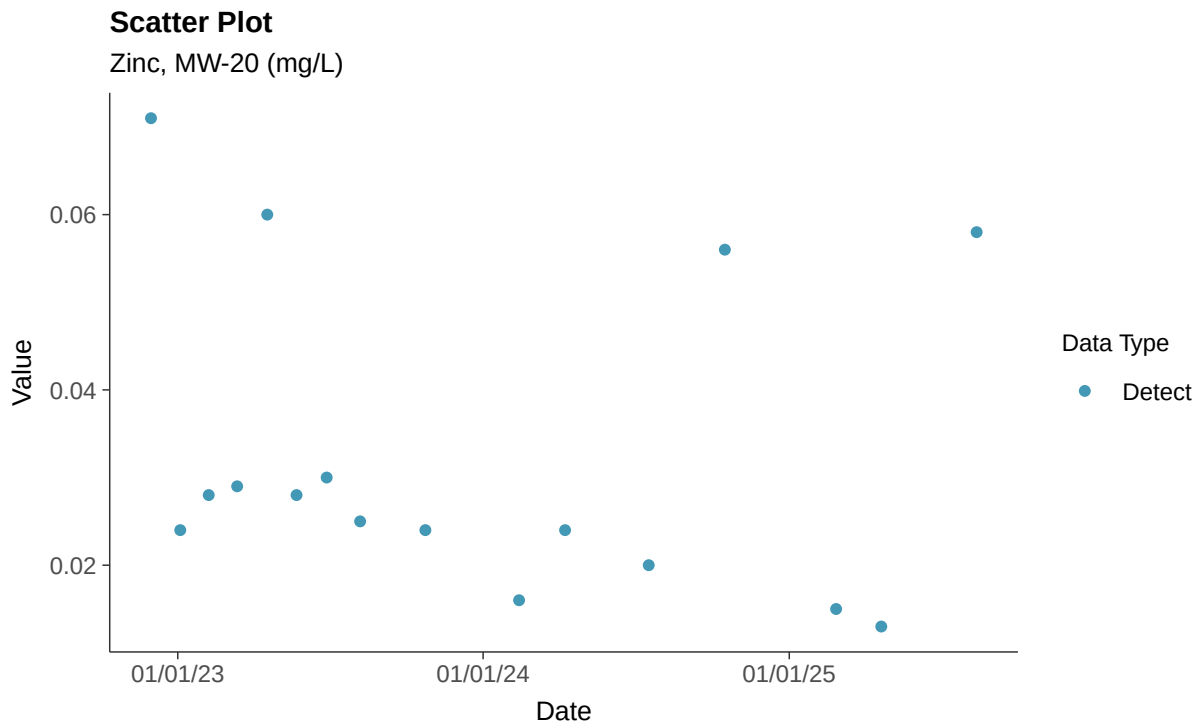
Boxplot by Season

Vanadium, MW-20 (mg/L)



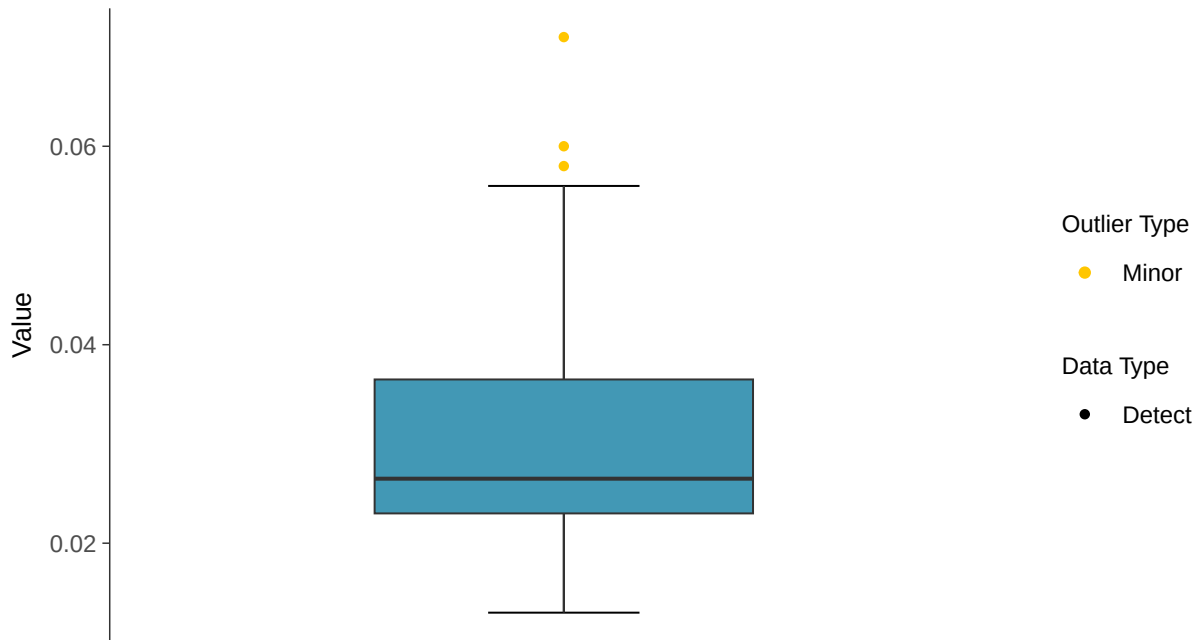
Part 115: Zinc, MW-20

ID: 30_1_5_129



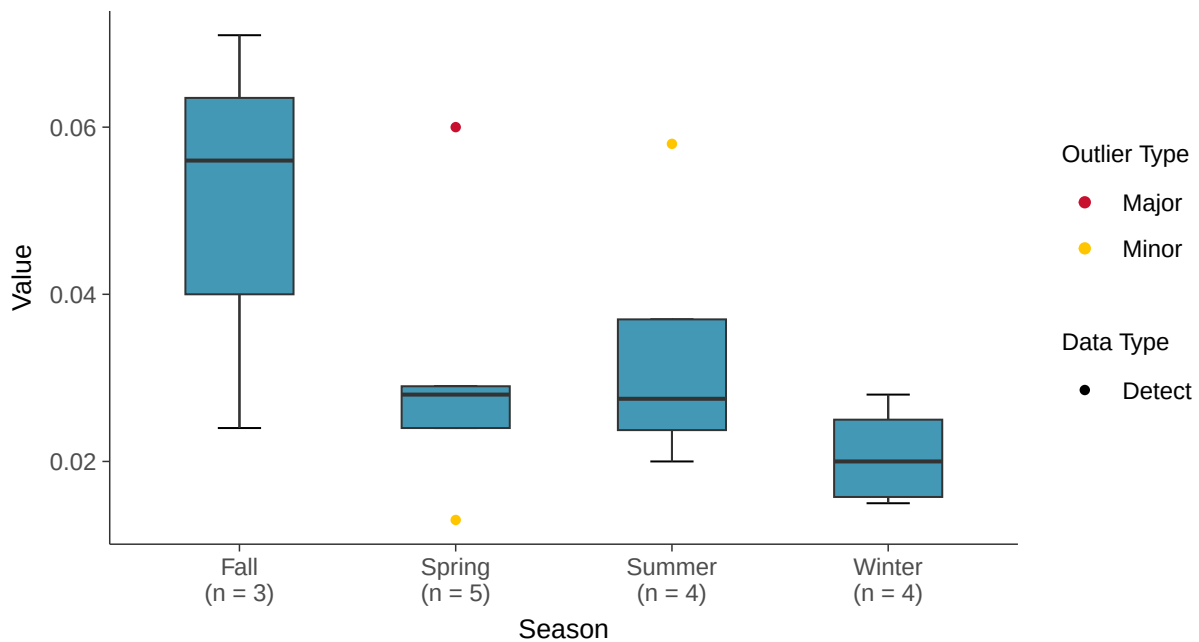
Boxplot

Zinc, MW-20 (mg/L)



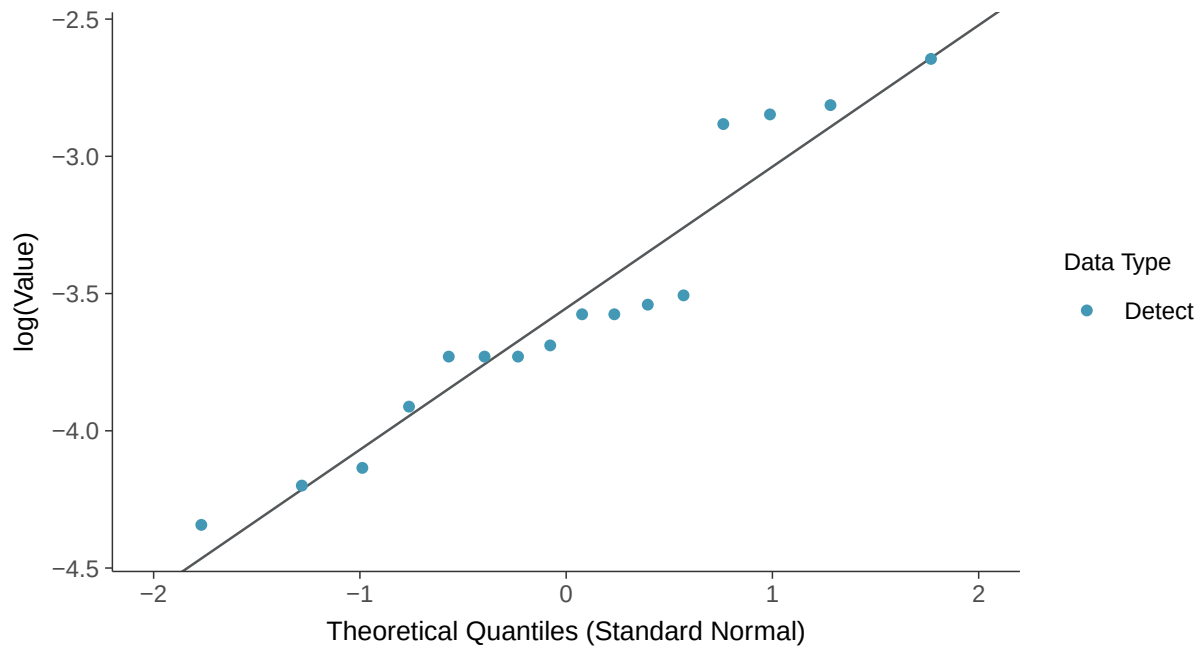
Boxplot by Season

Zinc, MW-20 (mg/L)



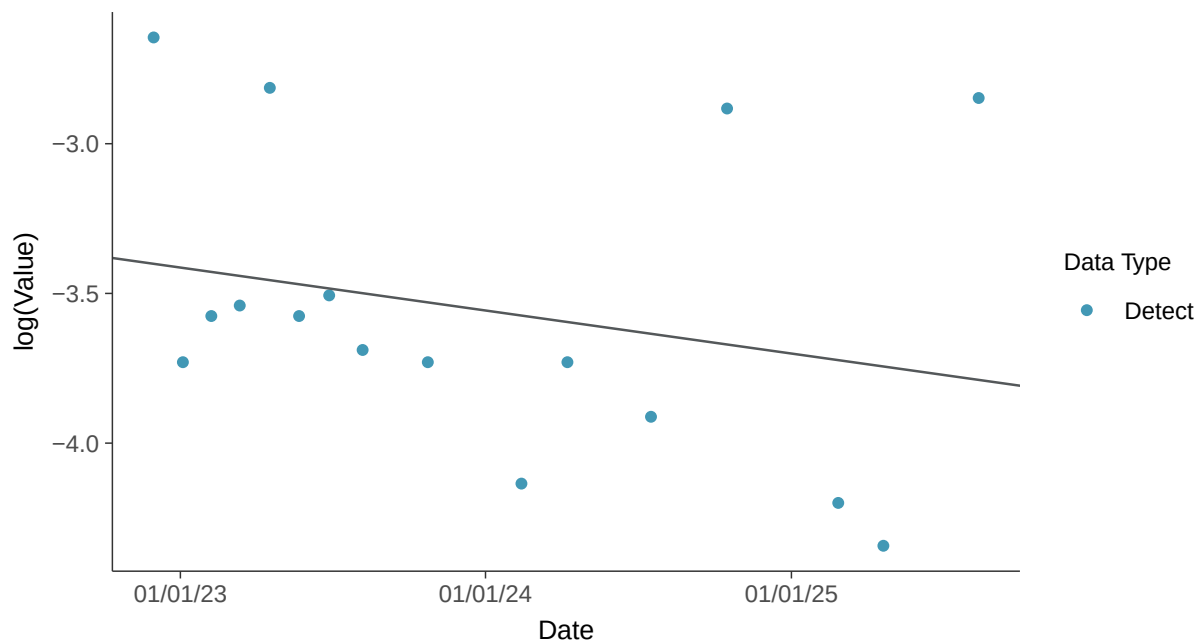
Lognormal Q-Q plot

Zinc, MW-20 (mg/L)



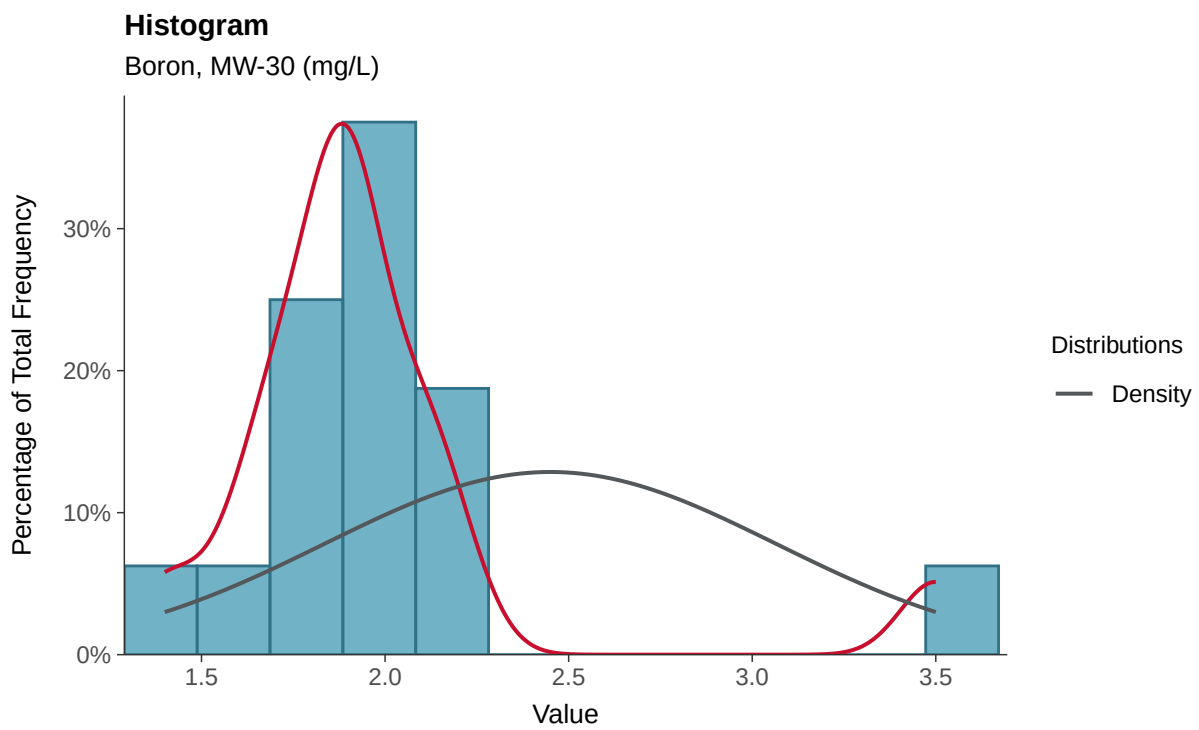
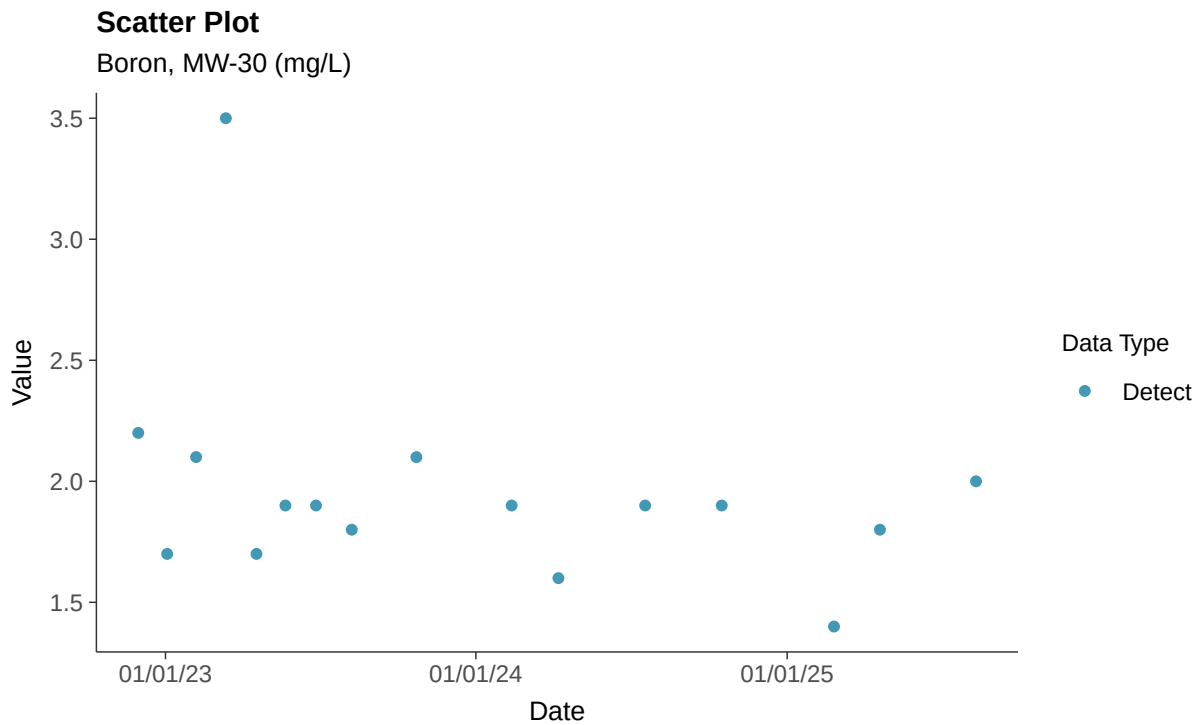
Trend Regression: Lognormal MLE

Zinc, MW-20 (mg/L)



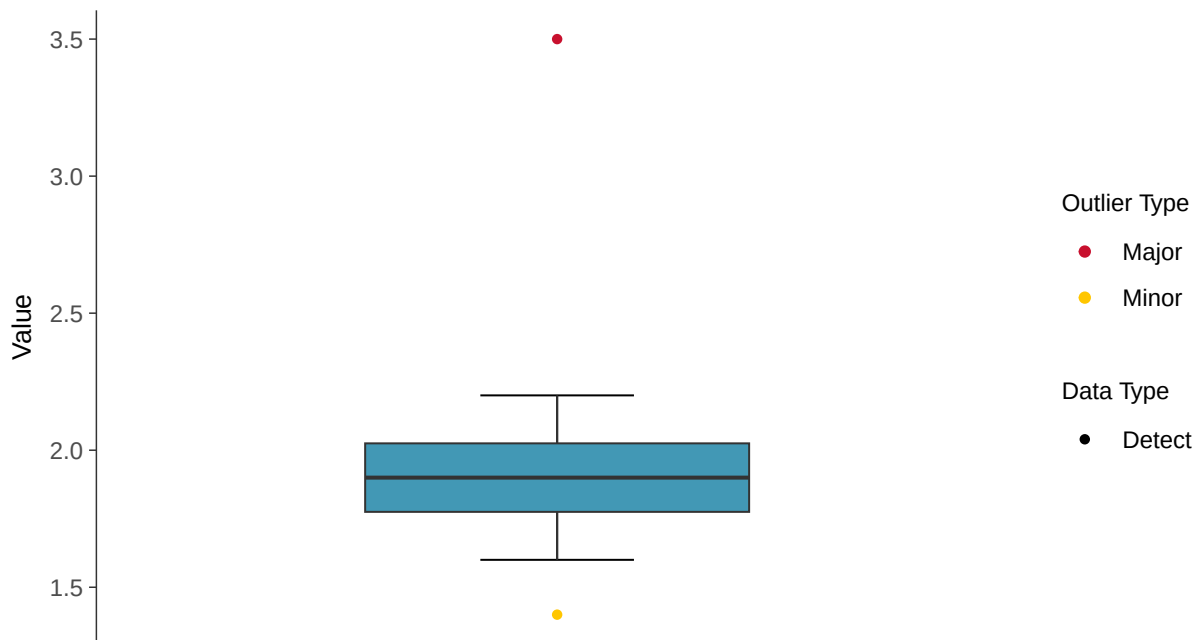
Appendix III: Boron, MW-30

ID: 40_1_3_105



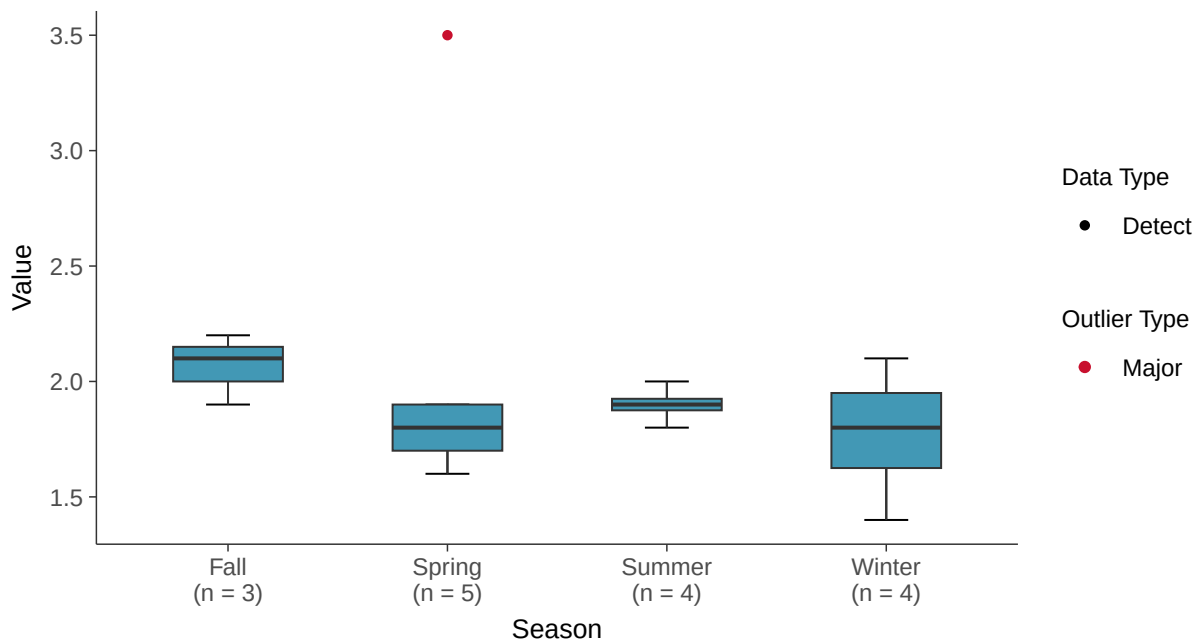
Boxplot

Boron, MW-30 (mg/L)

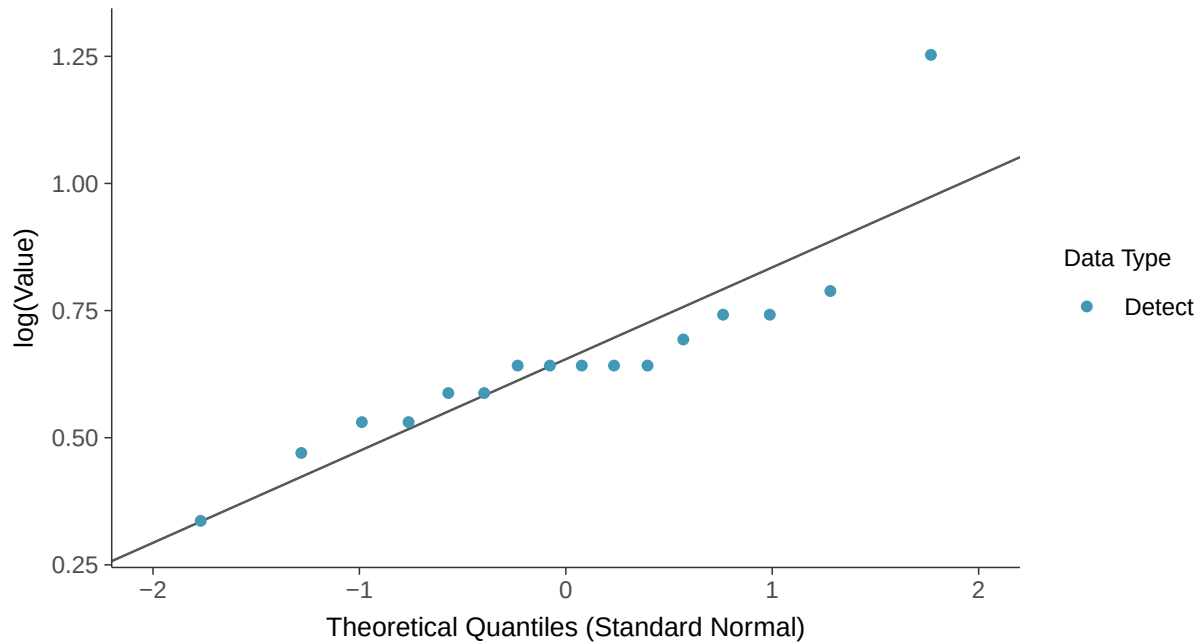


Boxplot by Season

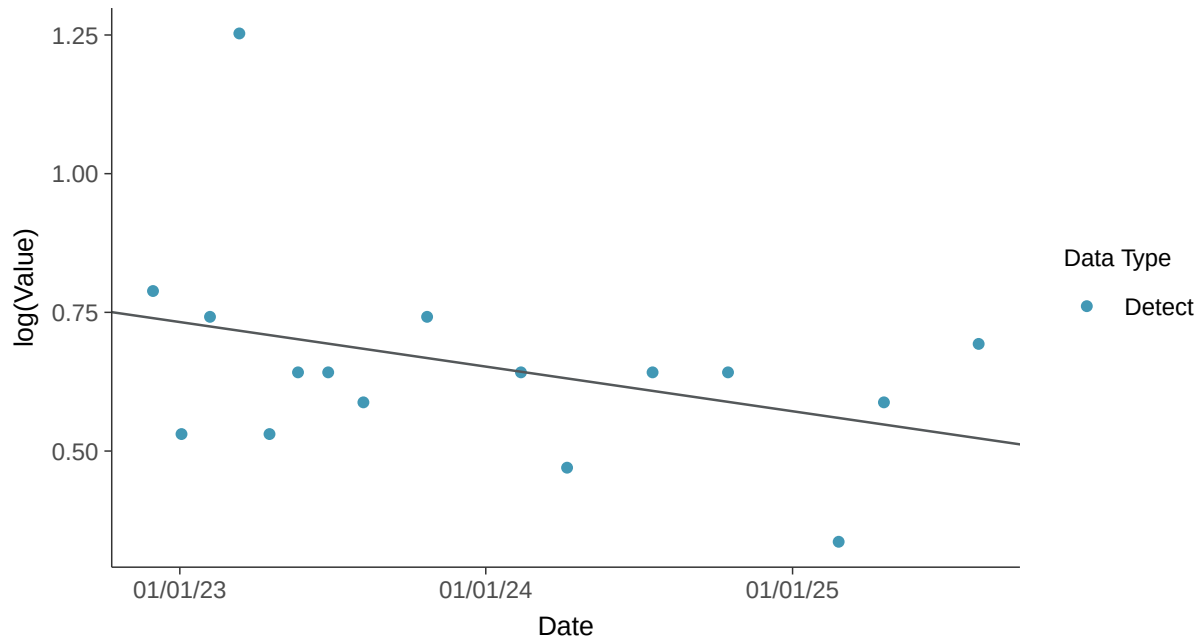
Boron, MW-30 (mg/L)



Lognormal Q-Q plot
Boron, MW-30 (mg/L)

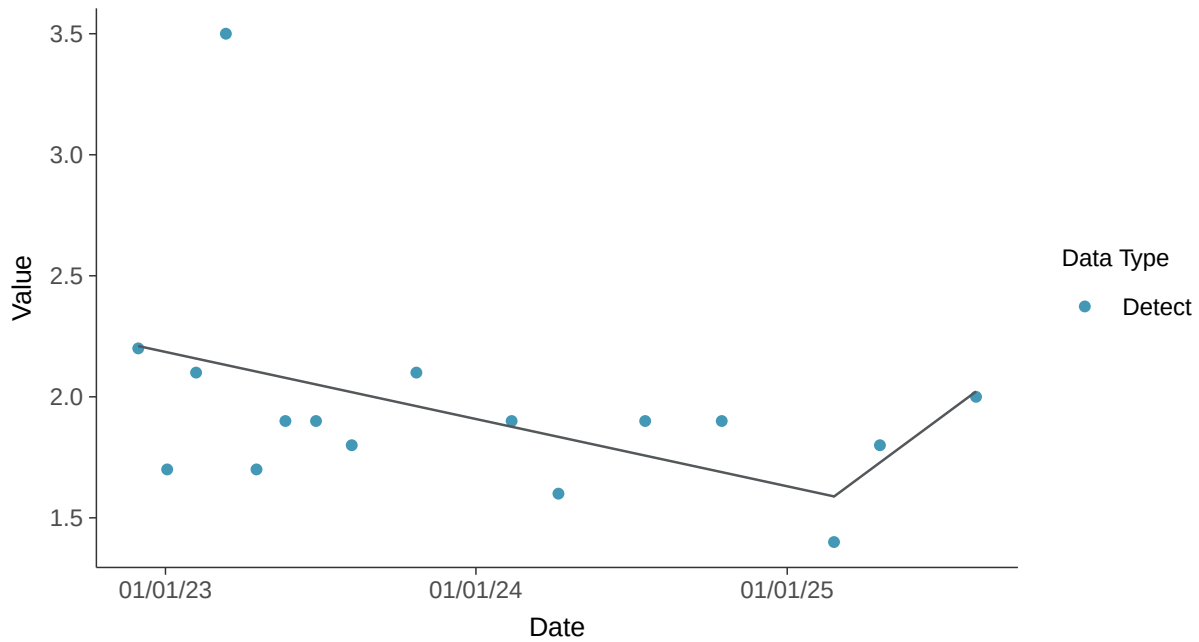


Trend Regression: Lognormal MLE
Boron, MW-30 (mg/L)



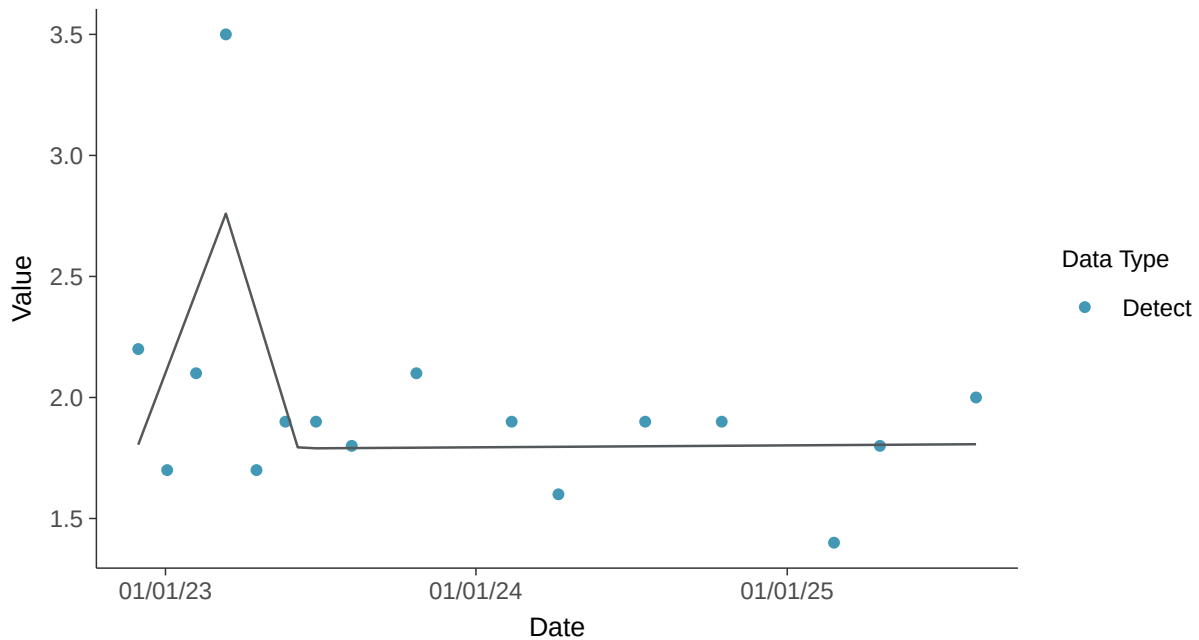
Trend Regression: Piecewise Linear-Linear

Boron, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-30 (mg/L)

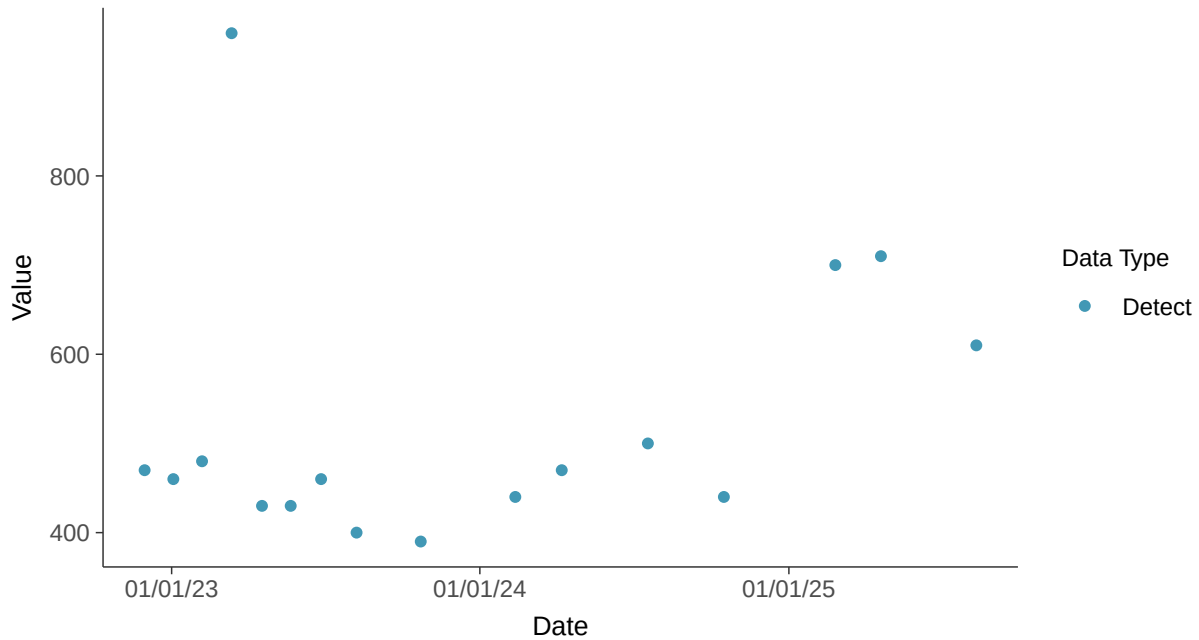


Appendix III: Calcium, MW-30

ID: 40_1_3_107

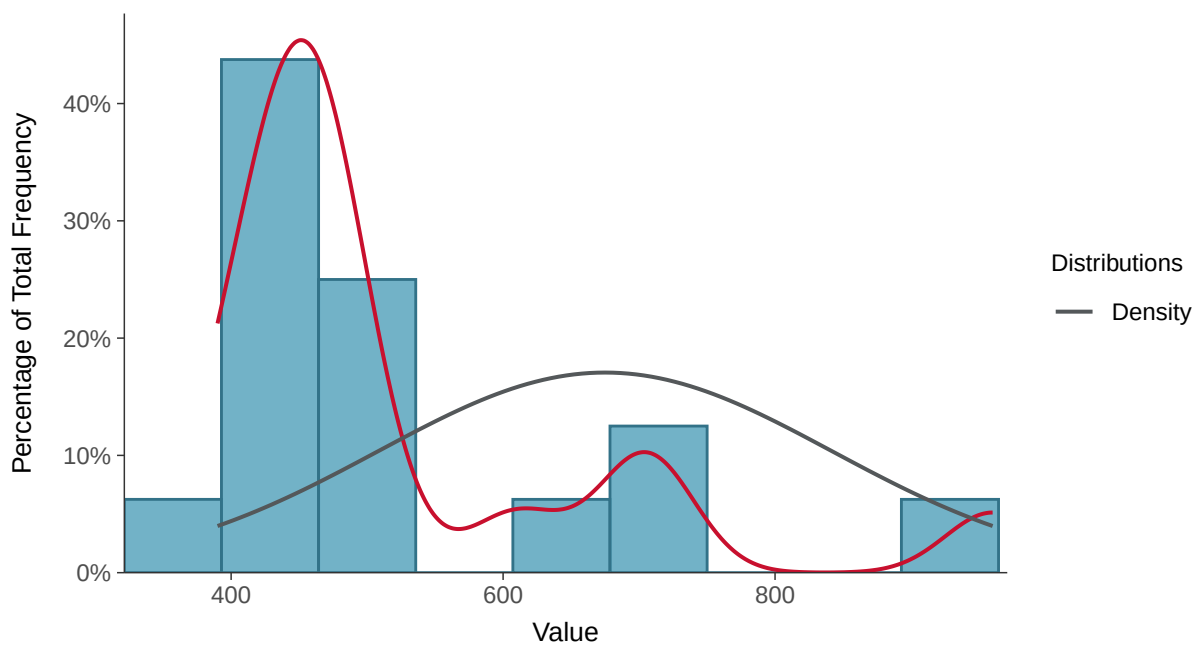
Scatter Plot

Calcium, MW-30 (mg/L)



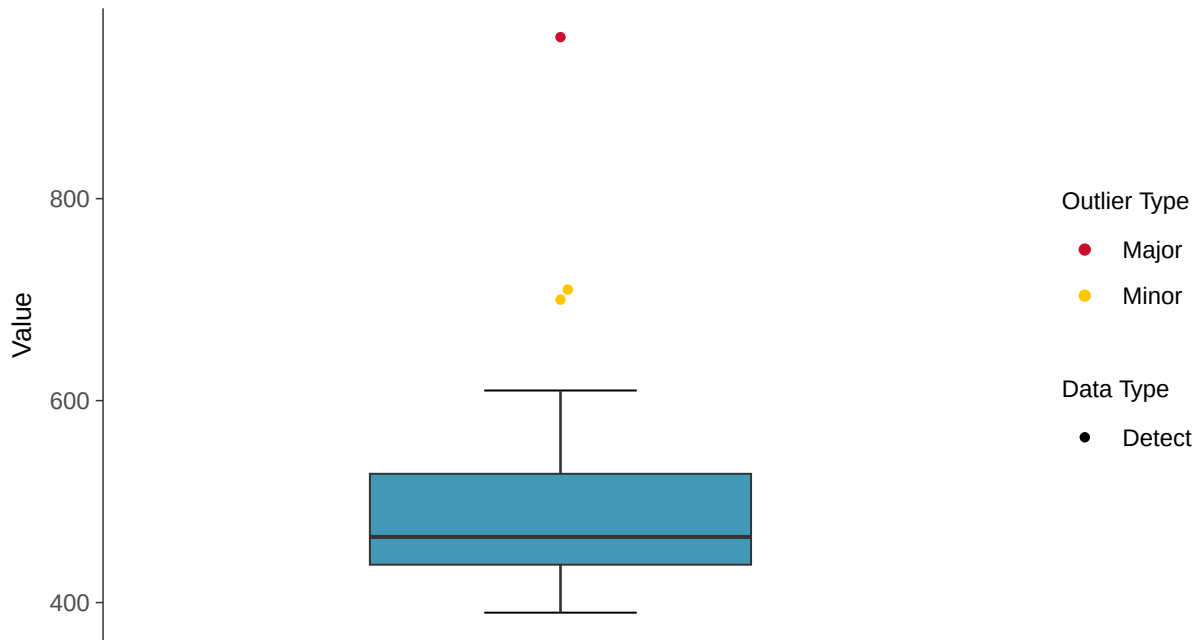
Histogram

Calcium, MW-30 (mg/L)



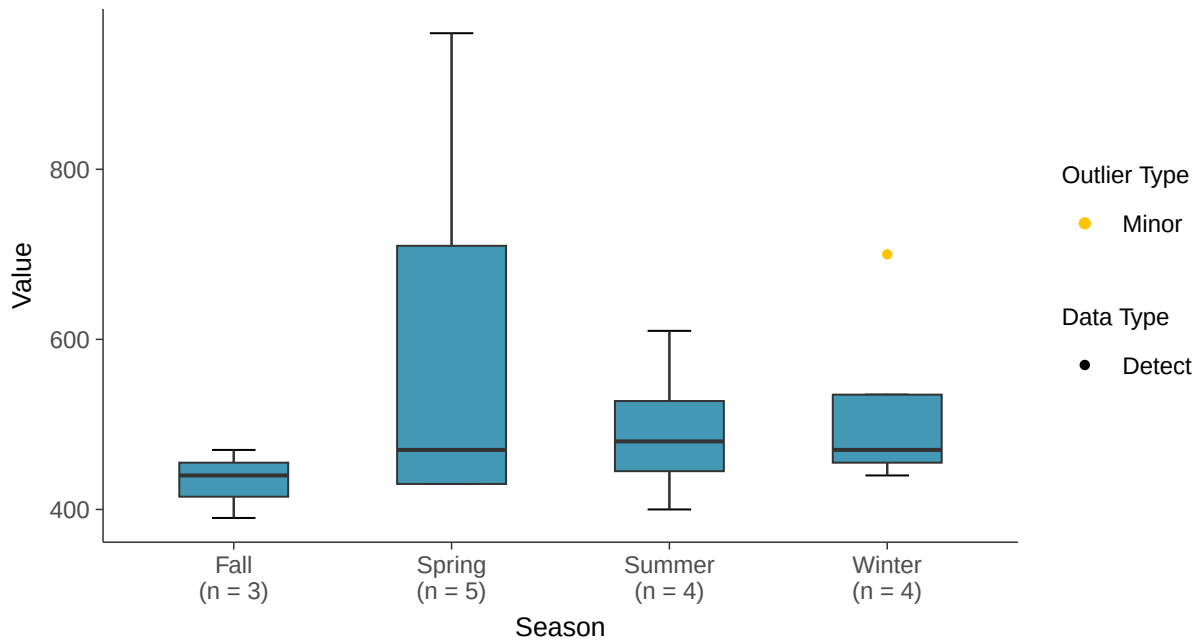
Boxplot

Calcium, MW-30 (mg/L)



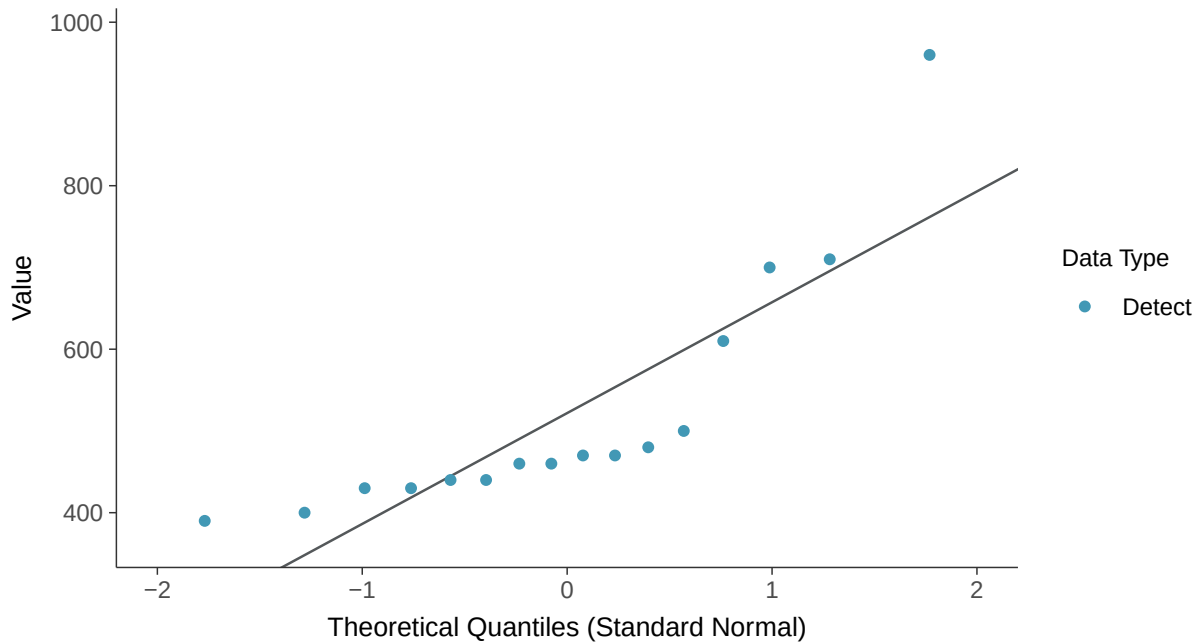
Boxplot by Season

Calcium, MW-30 (mg/L)



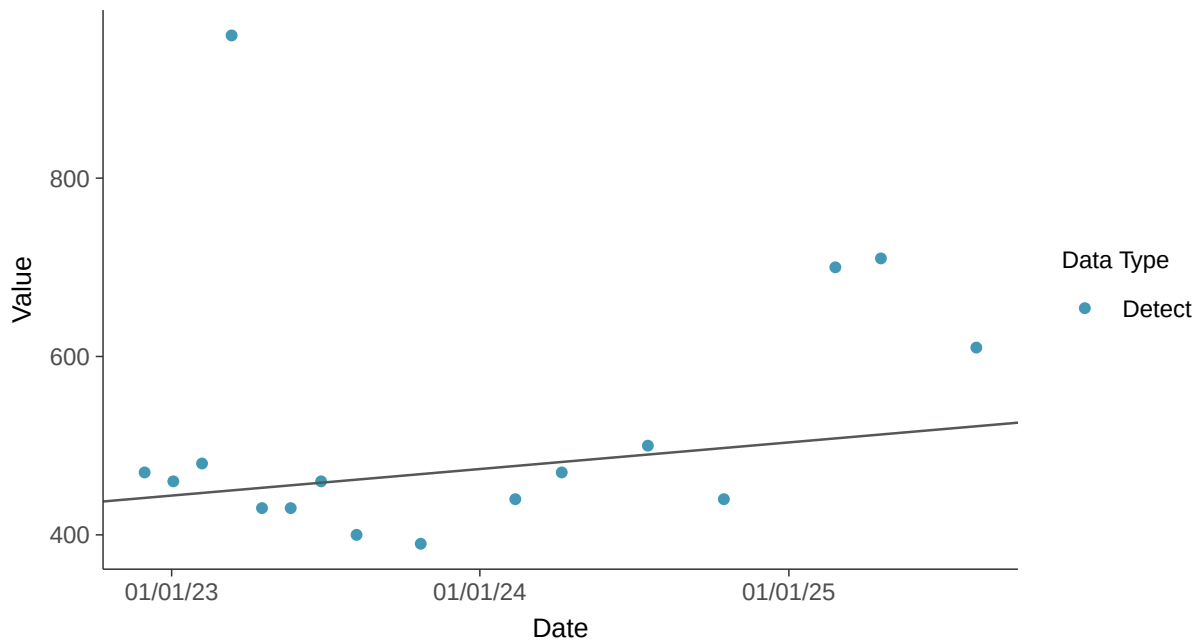
Normal Q-Q plot

Calcium, MW-30 (mg/L)



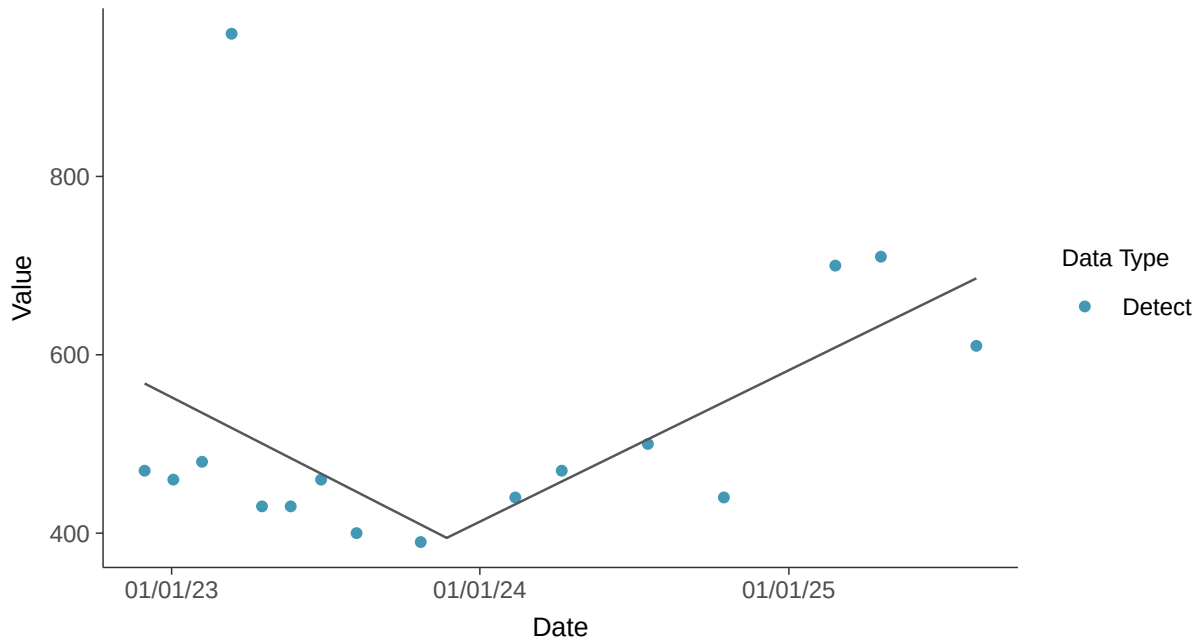
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Calcium, MW-30 (mg/L)



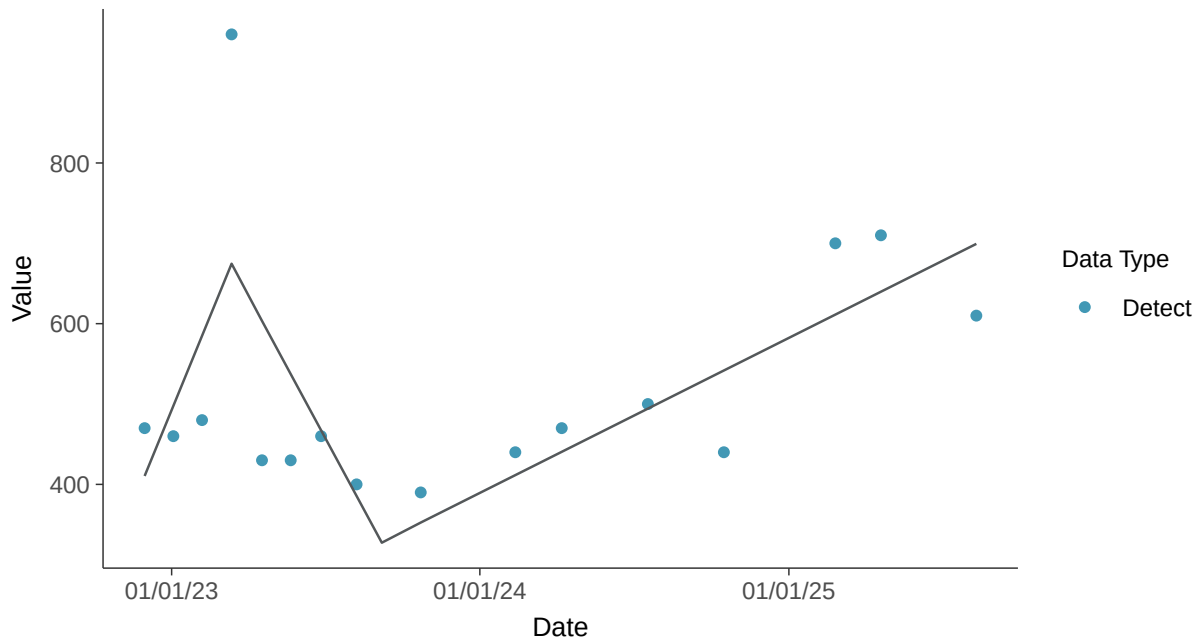
Trend Regression: Piecewise Linear-Linear

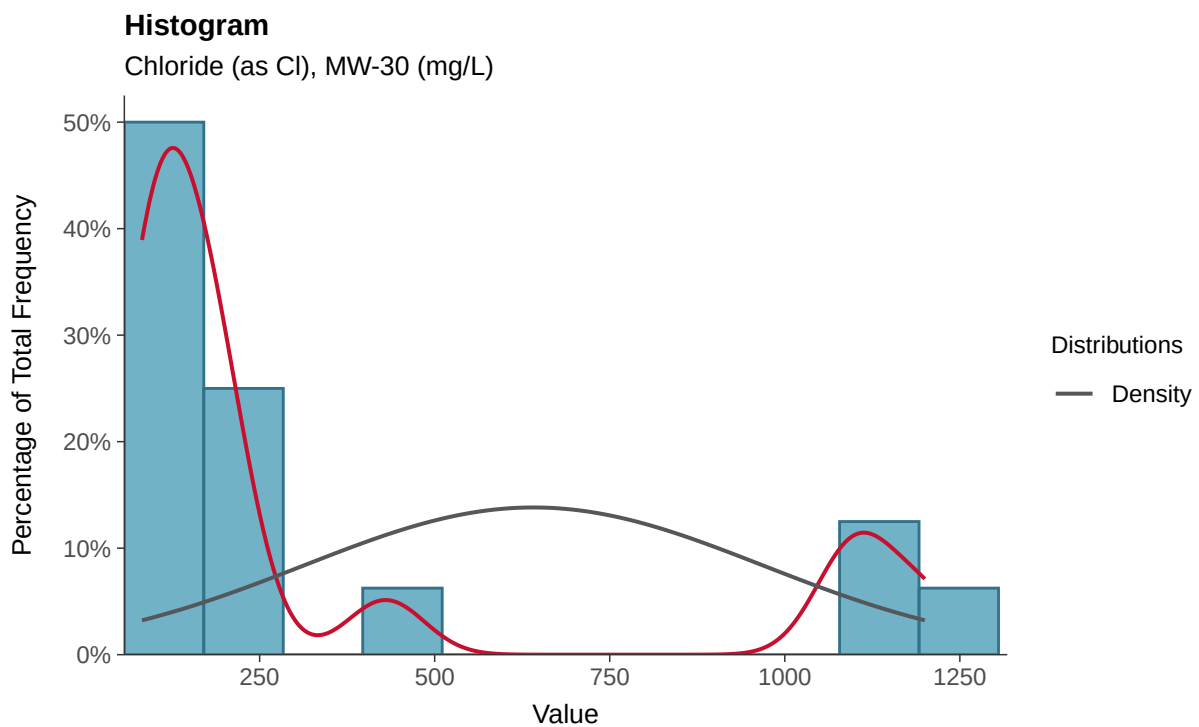
Calcium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

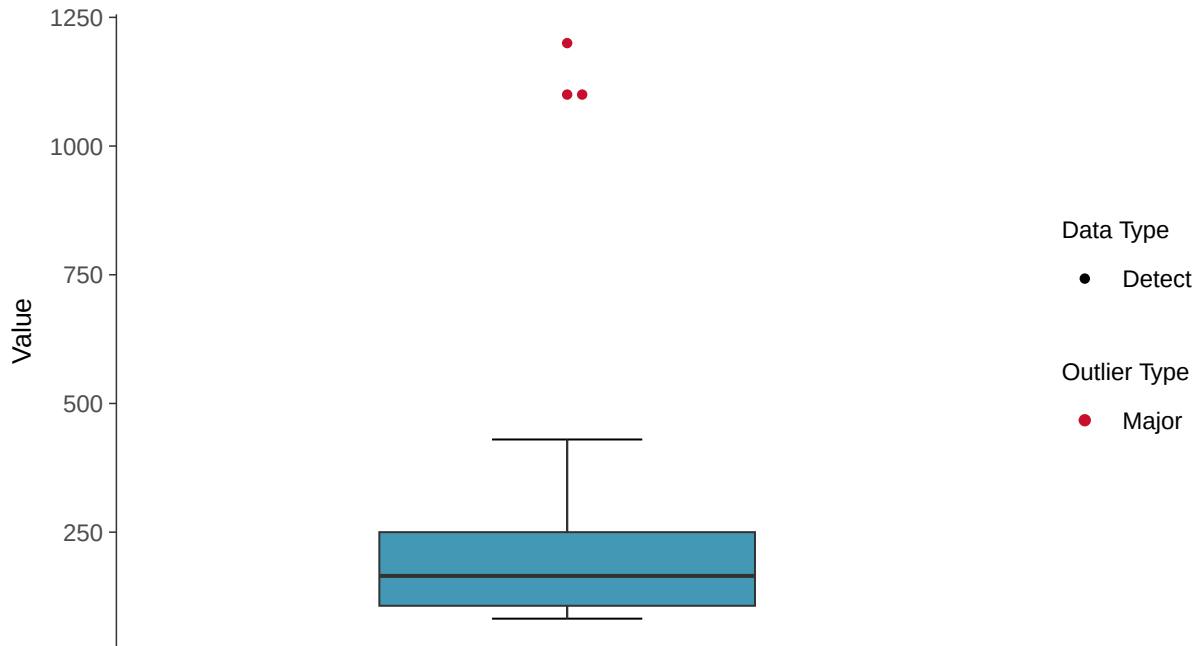
Calcium, MW-30 (mg/L)





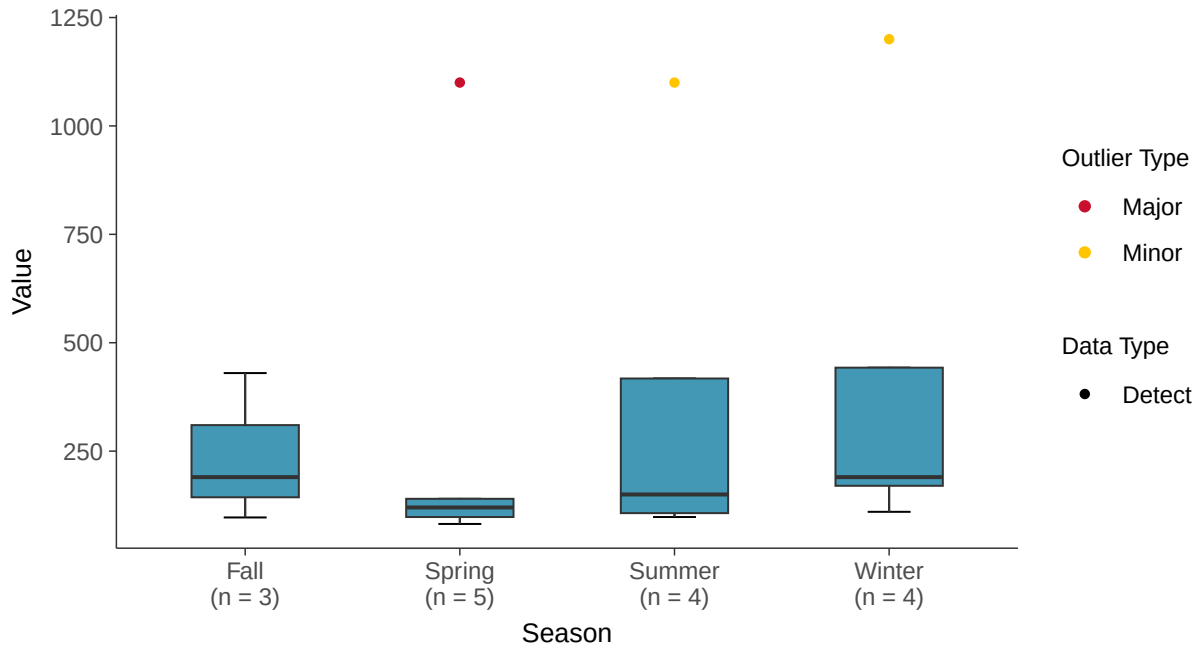
Boxplot

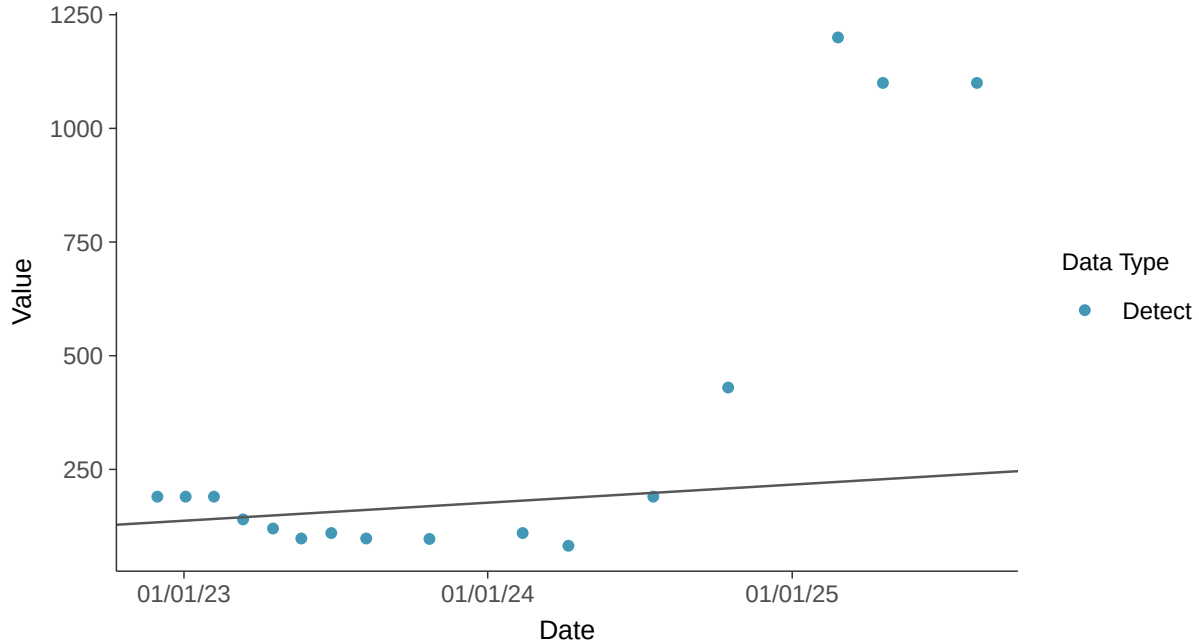
Chloride (as Cl), MW-30 (mg/L)



Boxplot by Season

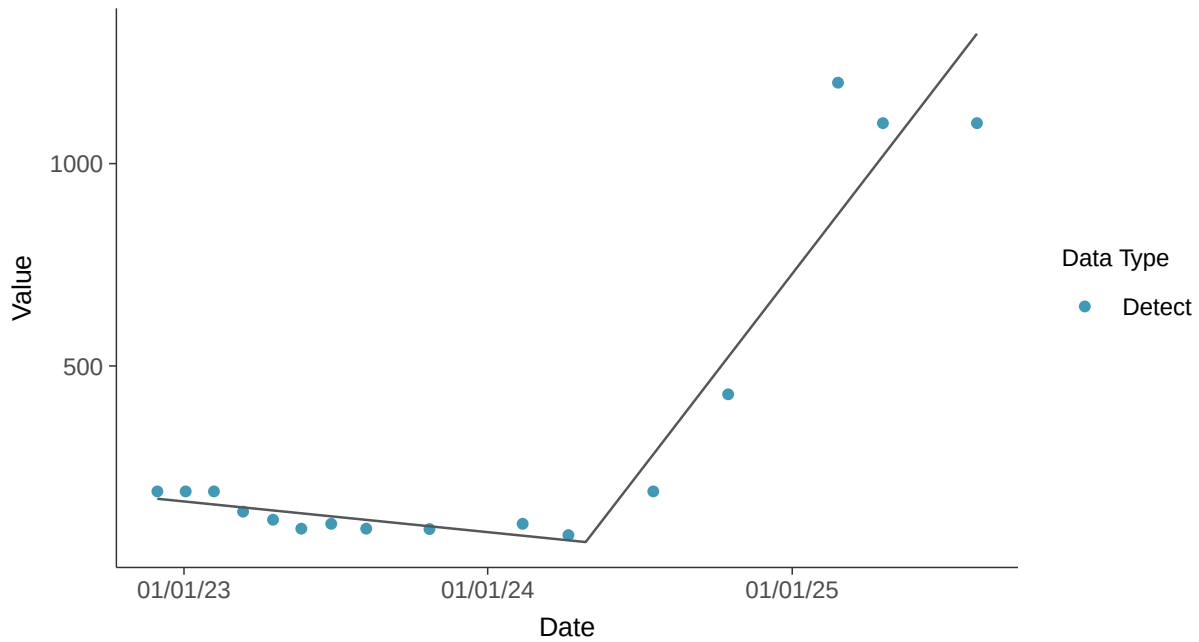
Chloride (as Cl), MW-30 (mg/L)





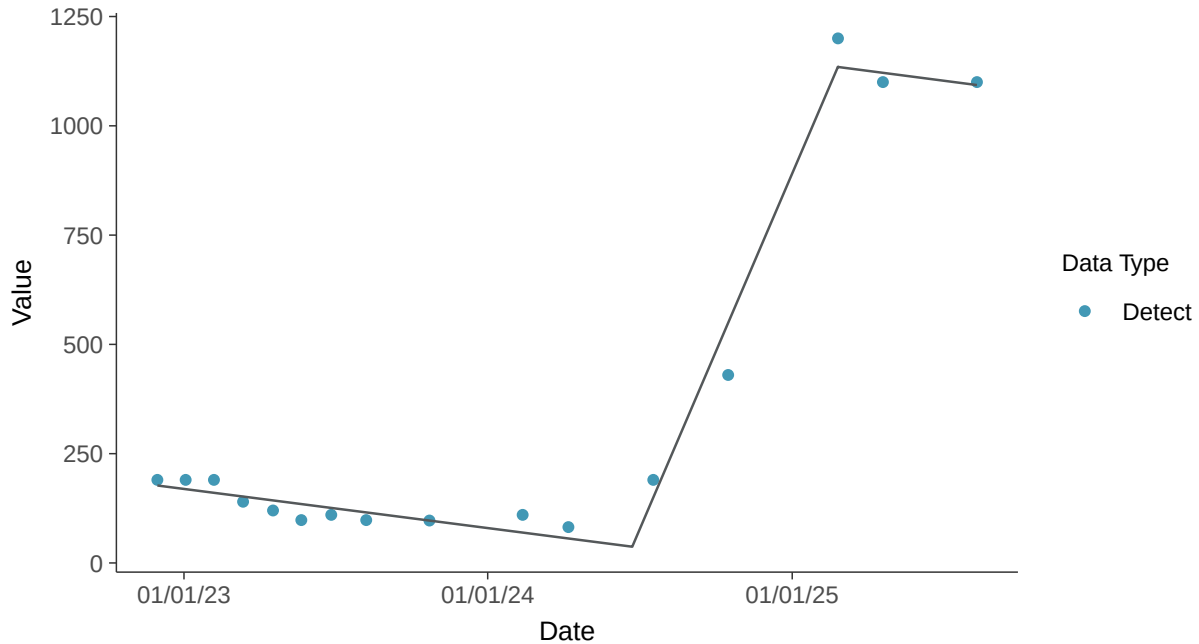
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

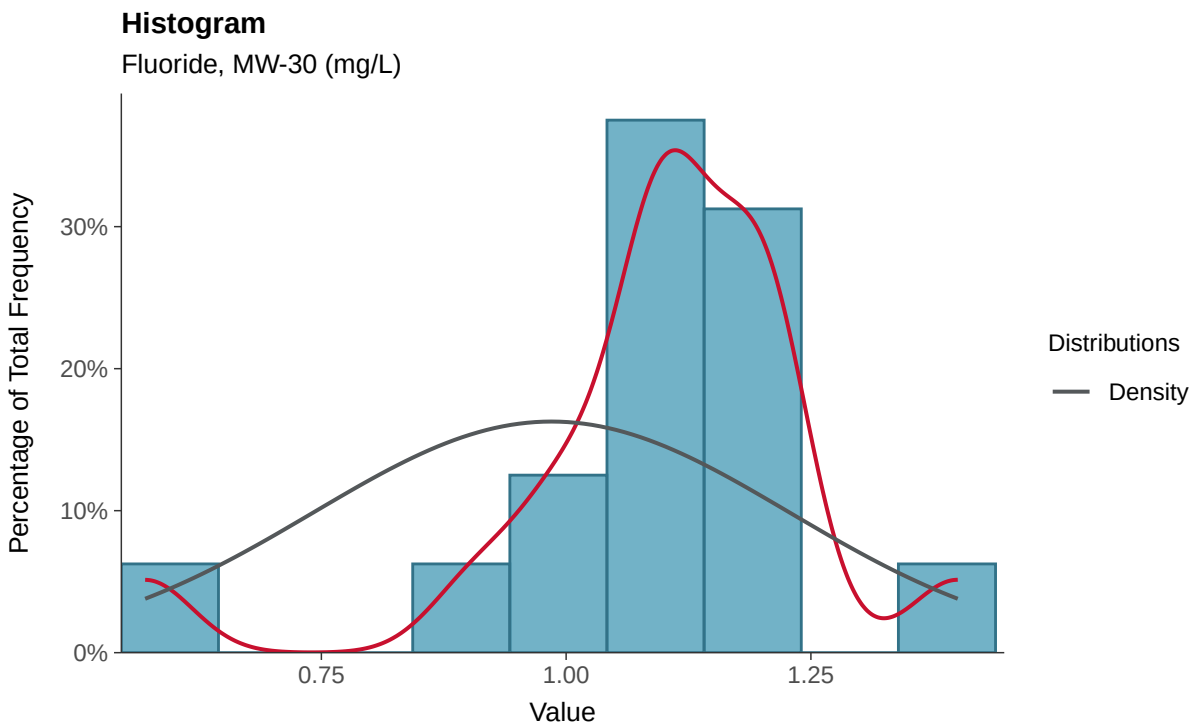
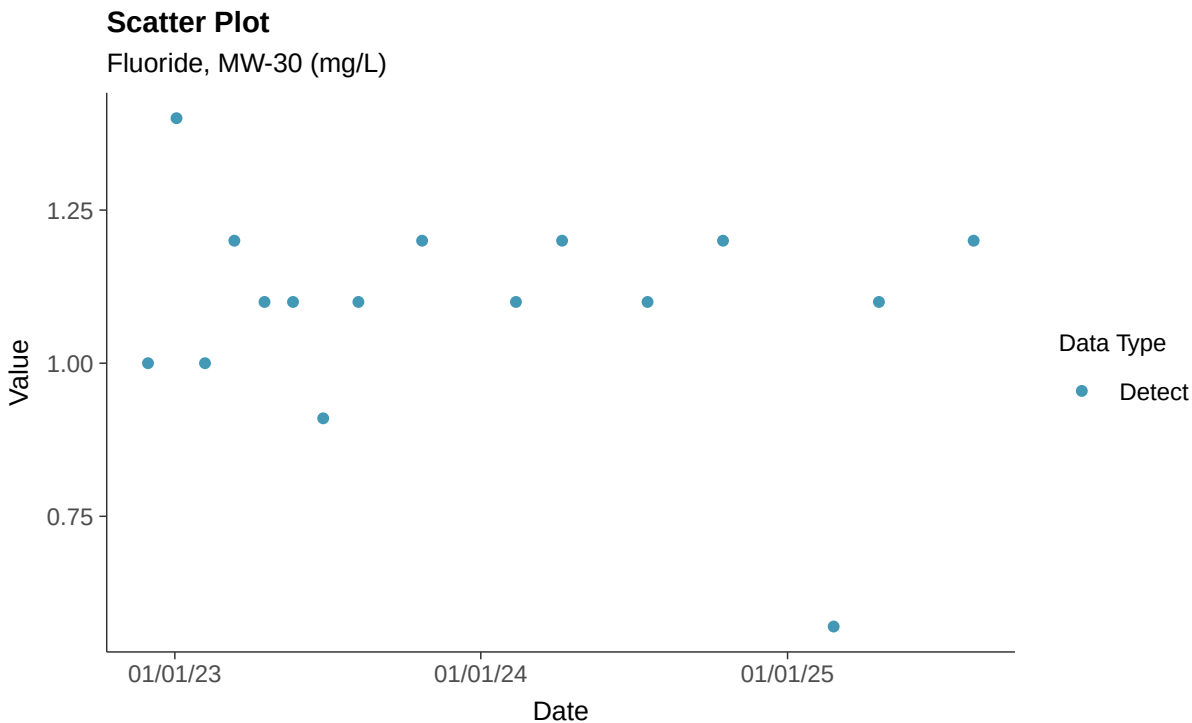
Chloride (as Cl), MW-30 (mg/L)





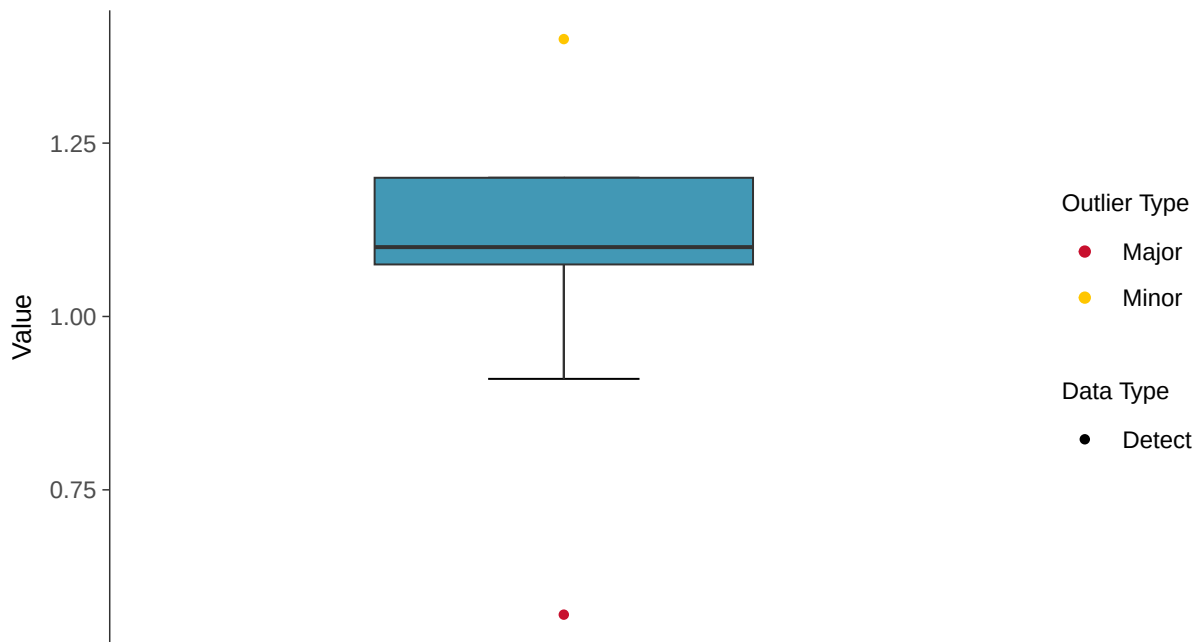
Appendix III: Fluoride, MW-30

ID: 40_1_3_112



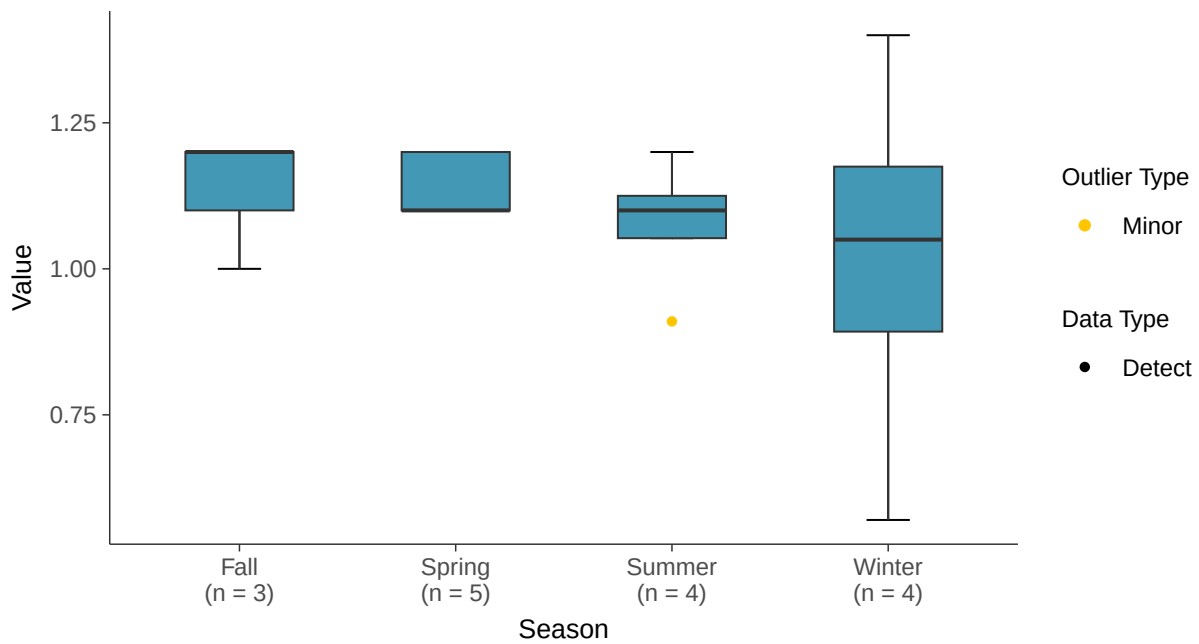
Boxplot

Fluoride, MW-30 (mg/L)



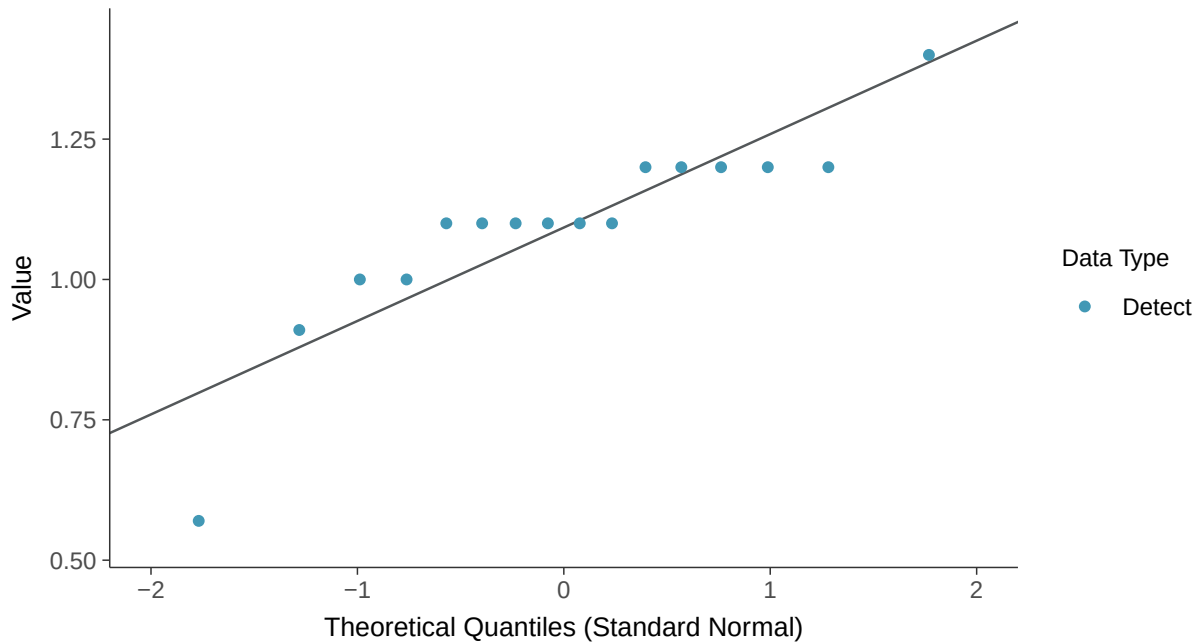
Boxplot by Season

Fluoride, MW-30 (mg/L)



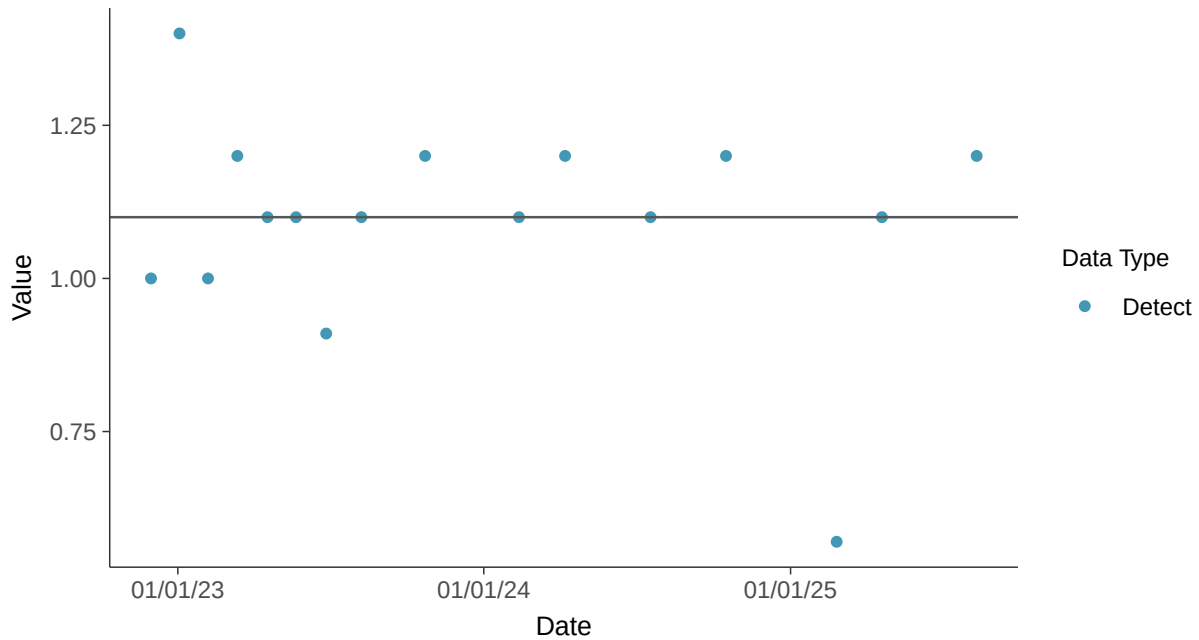
Normal Q-Q plot

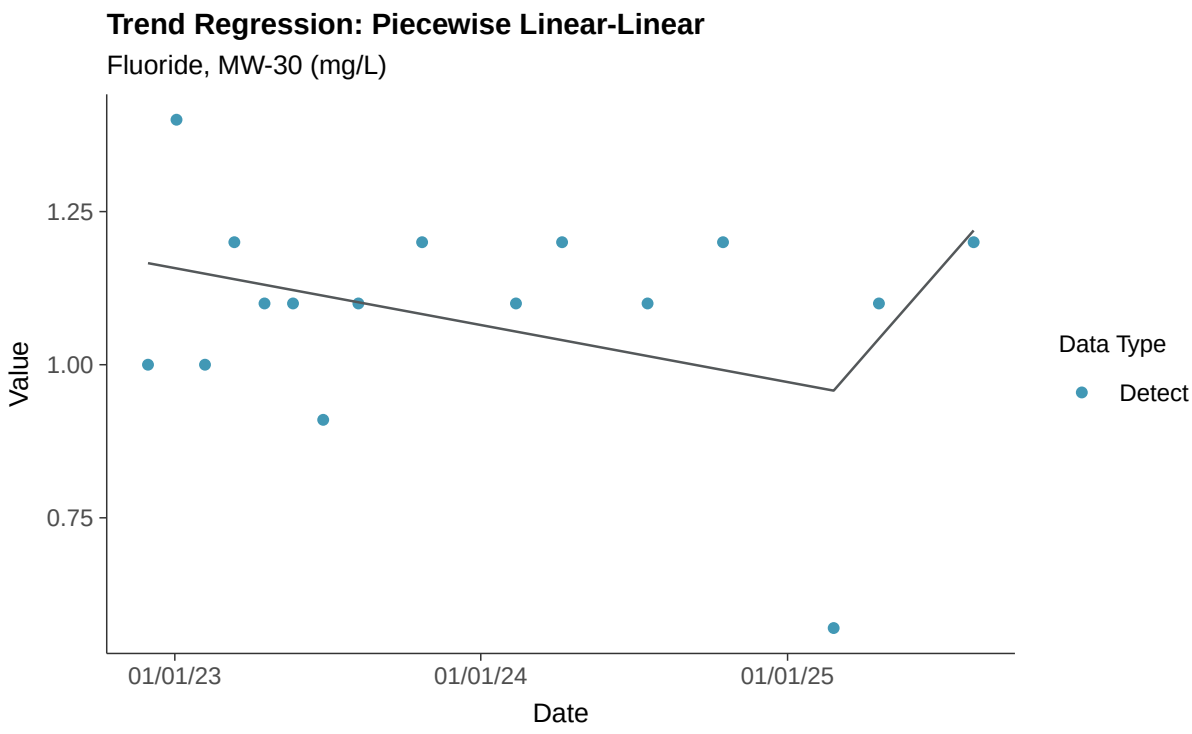
Fluoride, MW-30 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

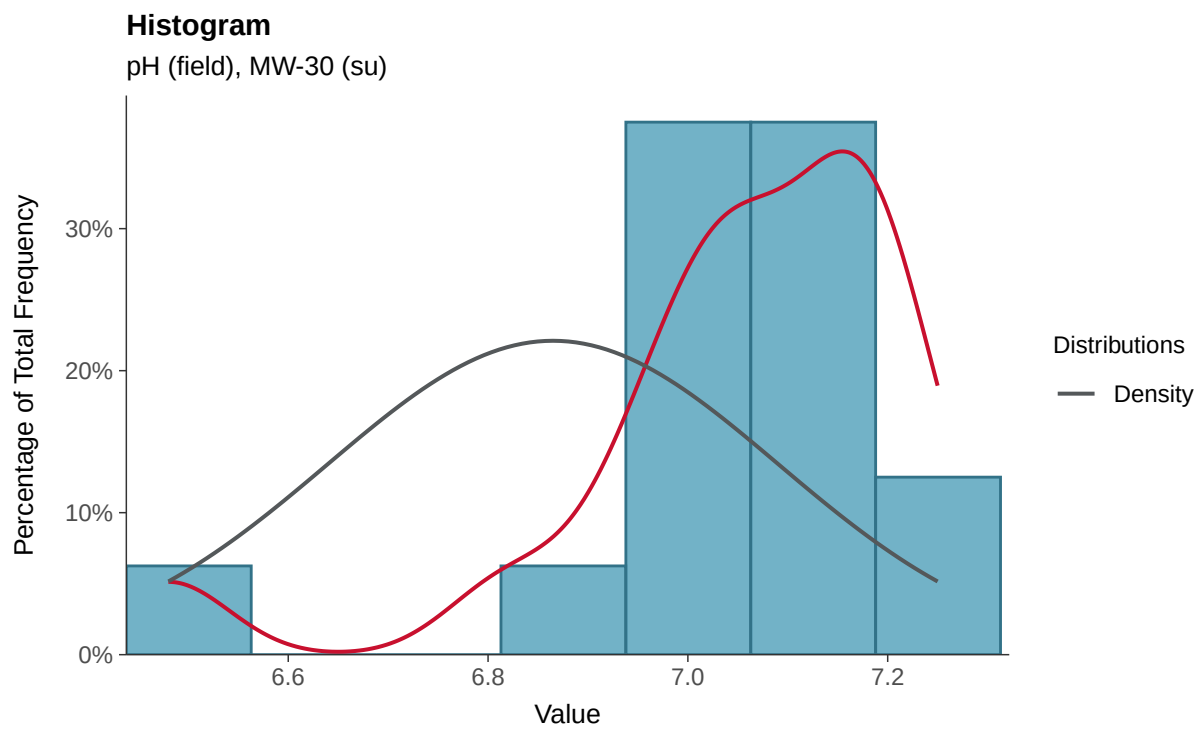
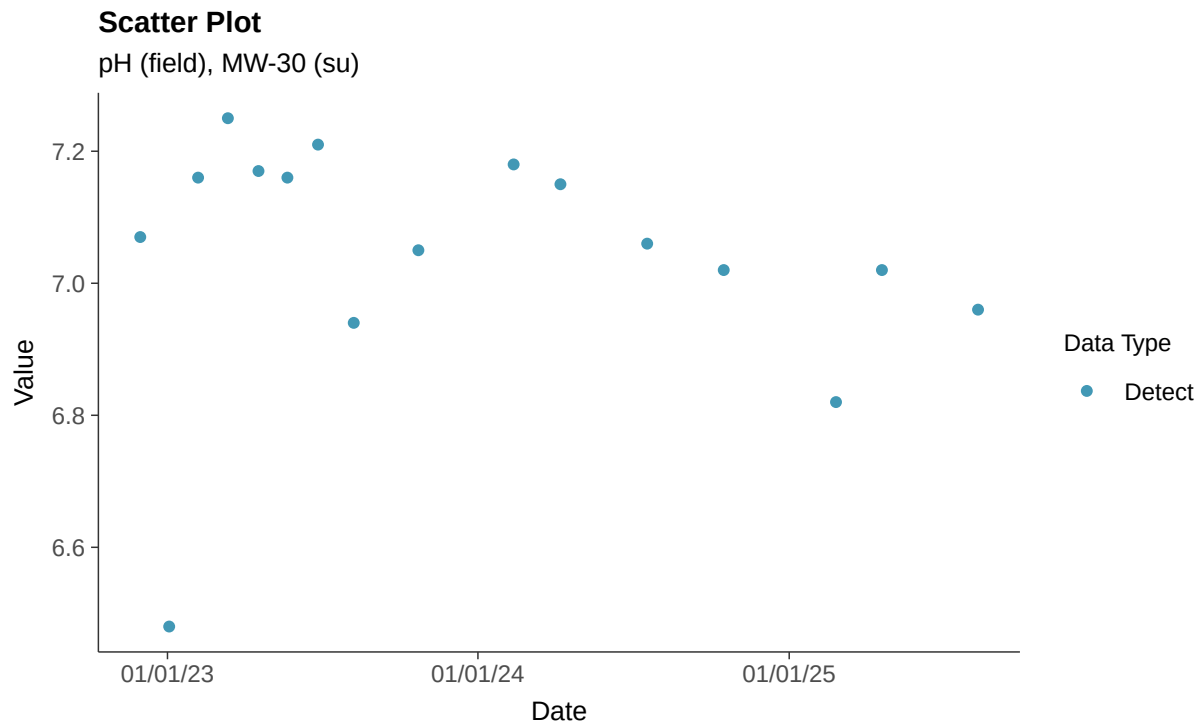
Fluoride, MW-30 (mg/L)





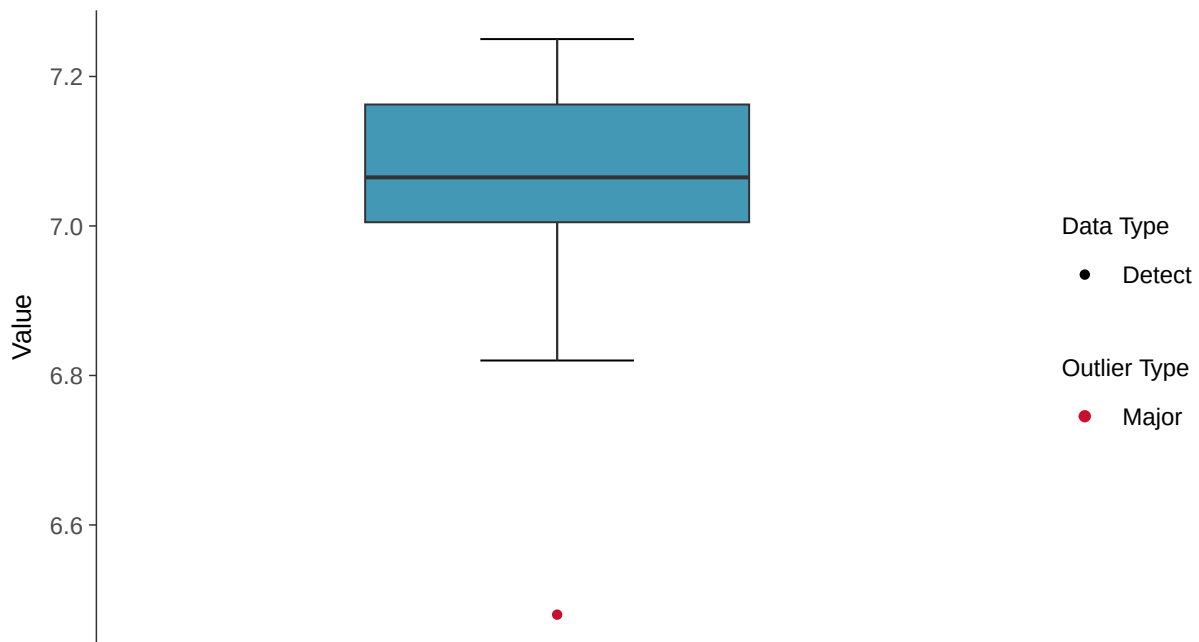
Appendix III: pH (field), MW-30

ID: 40_1_3_120



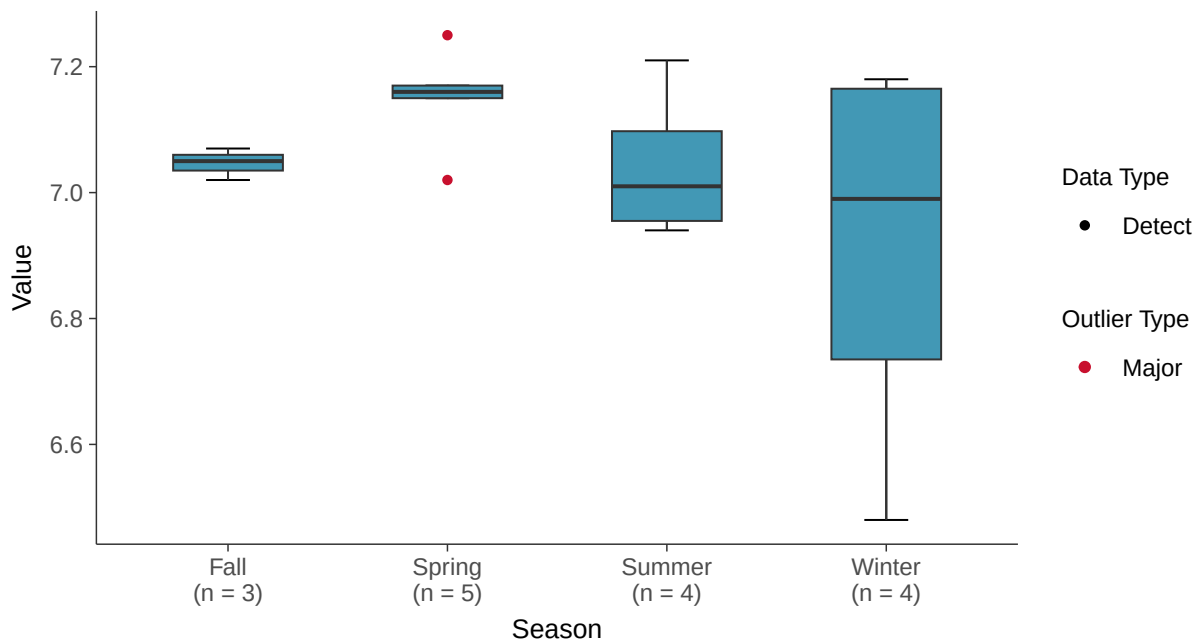
Boxplot

pH (field), MW-30 (su)

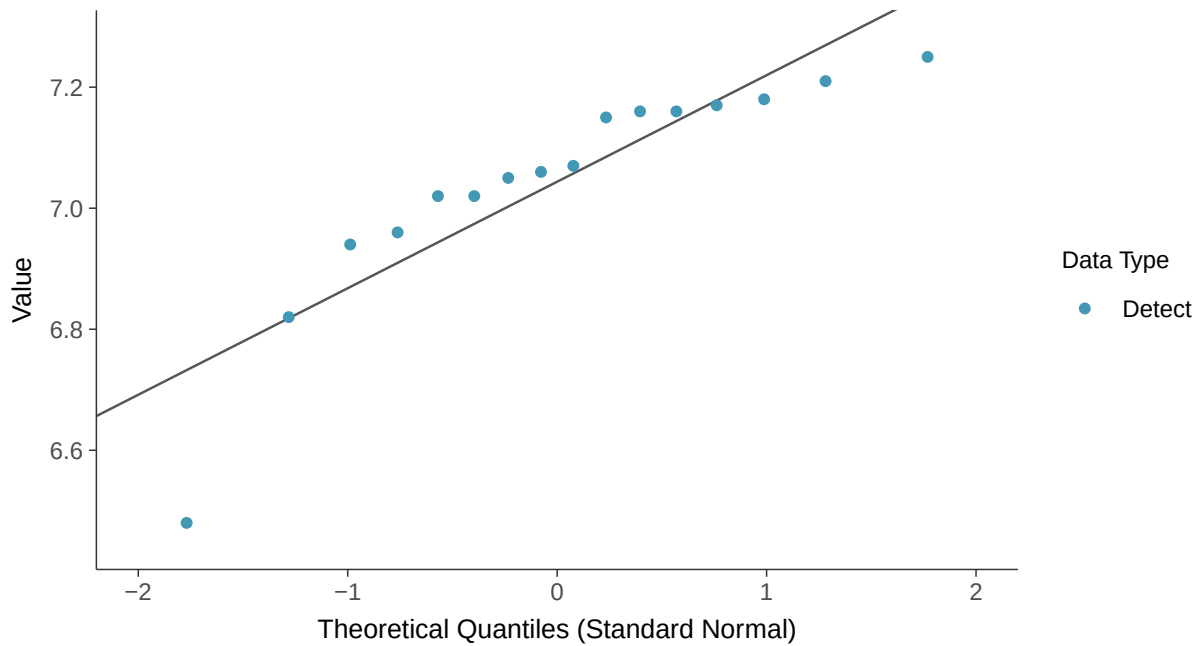


Boxplot by Season

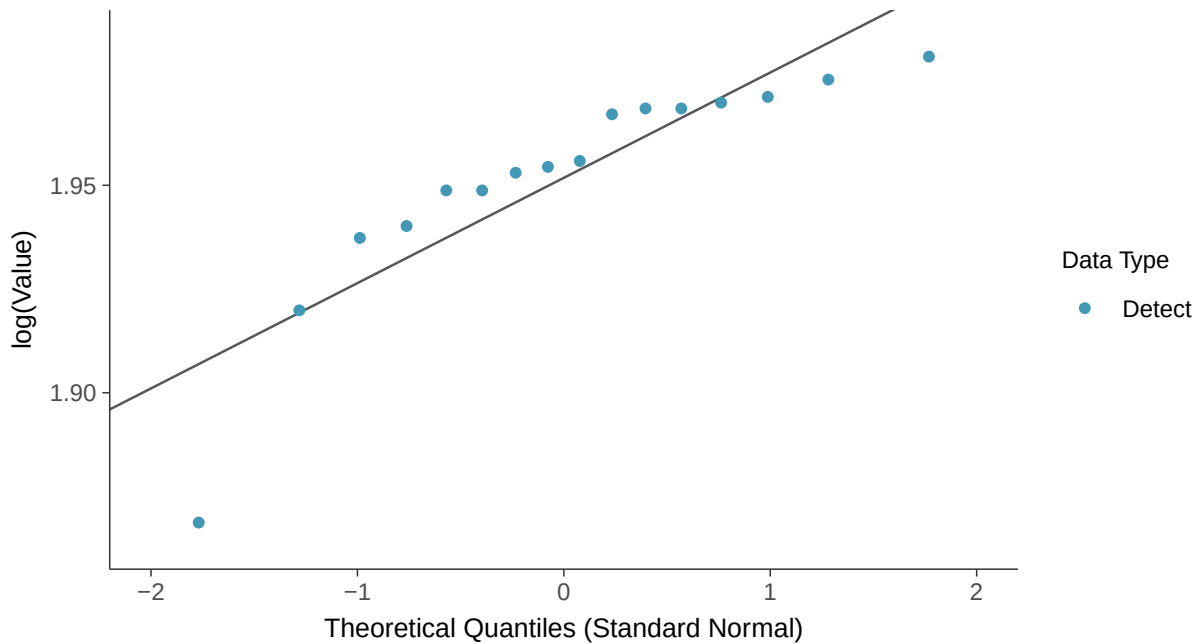
pH (field), MW-30 (su)

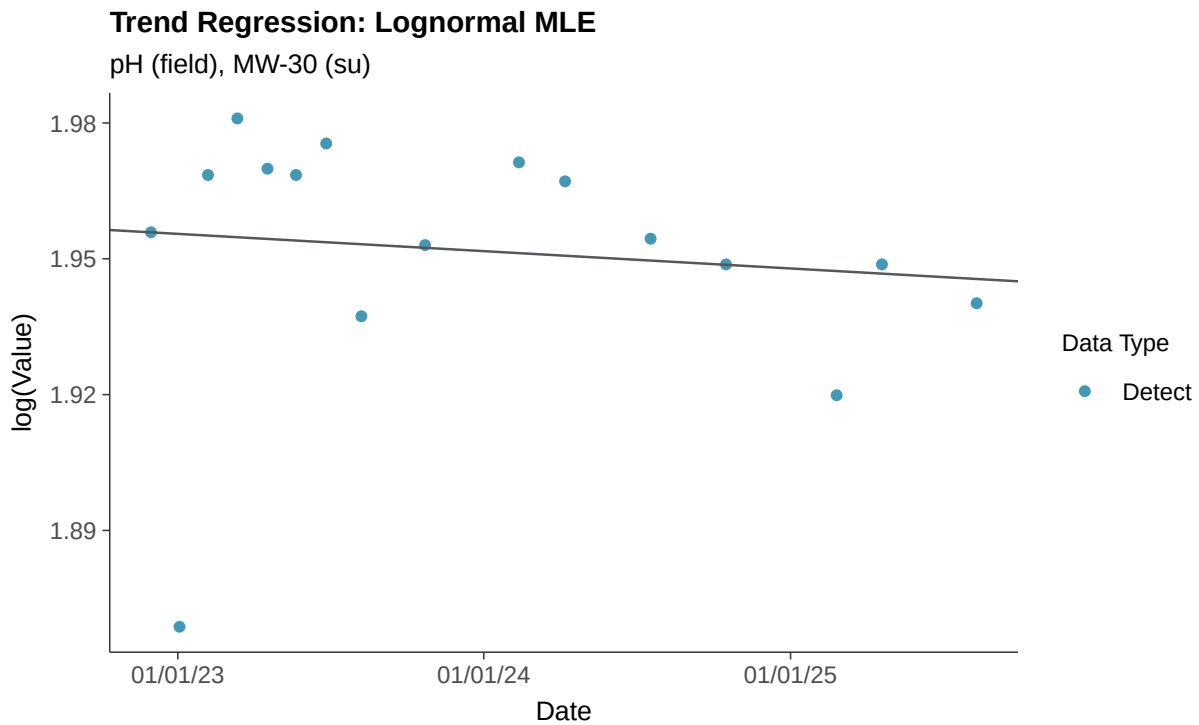
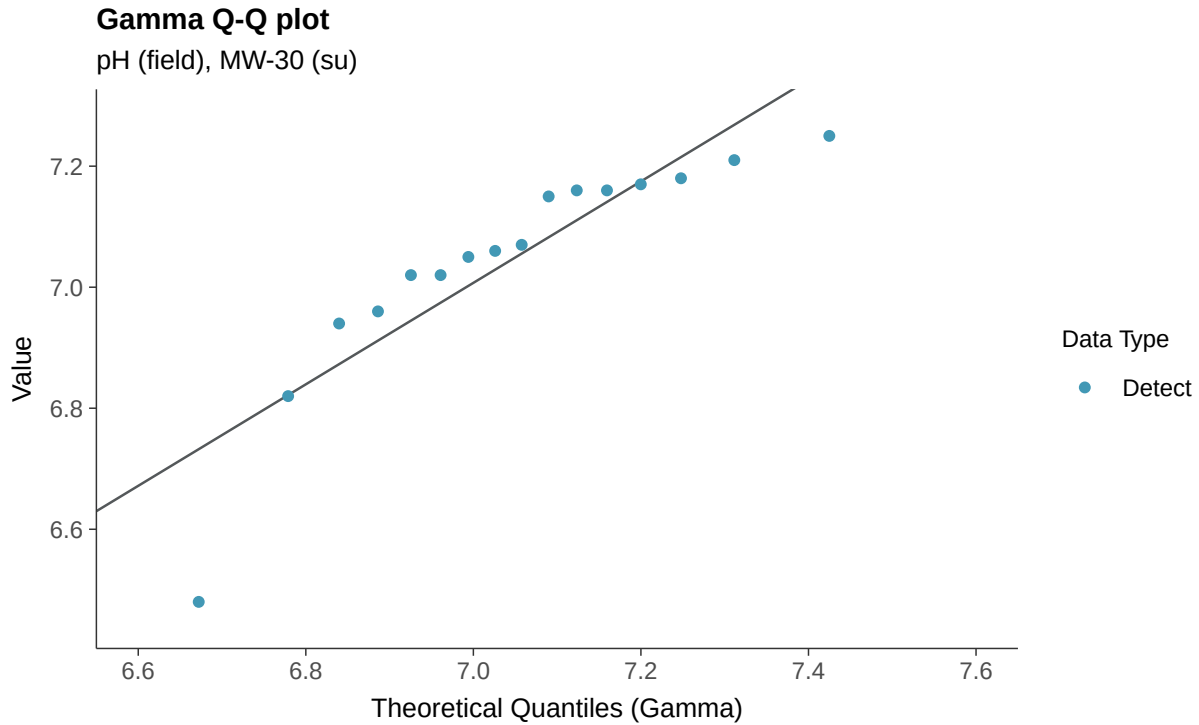


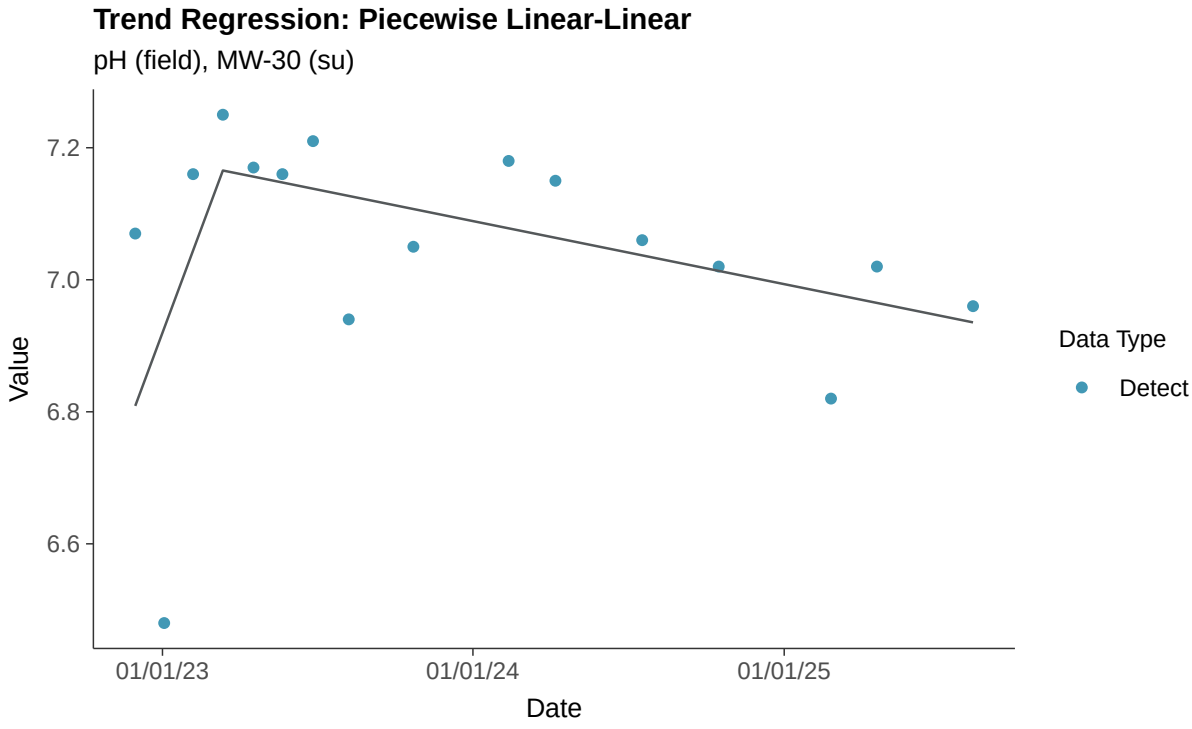
Normal Q-Q plot
pH (field), MW-30 (su)



Lognormal Q-Q plot
pH (field), MW-30 (su)

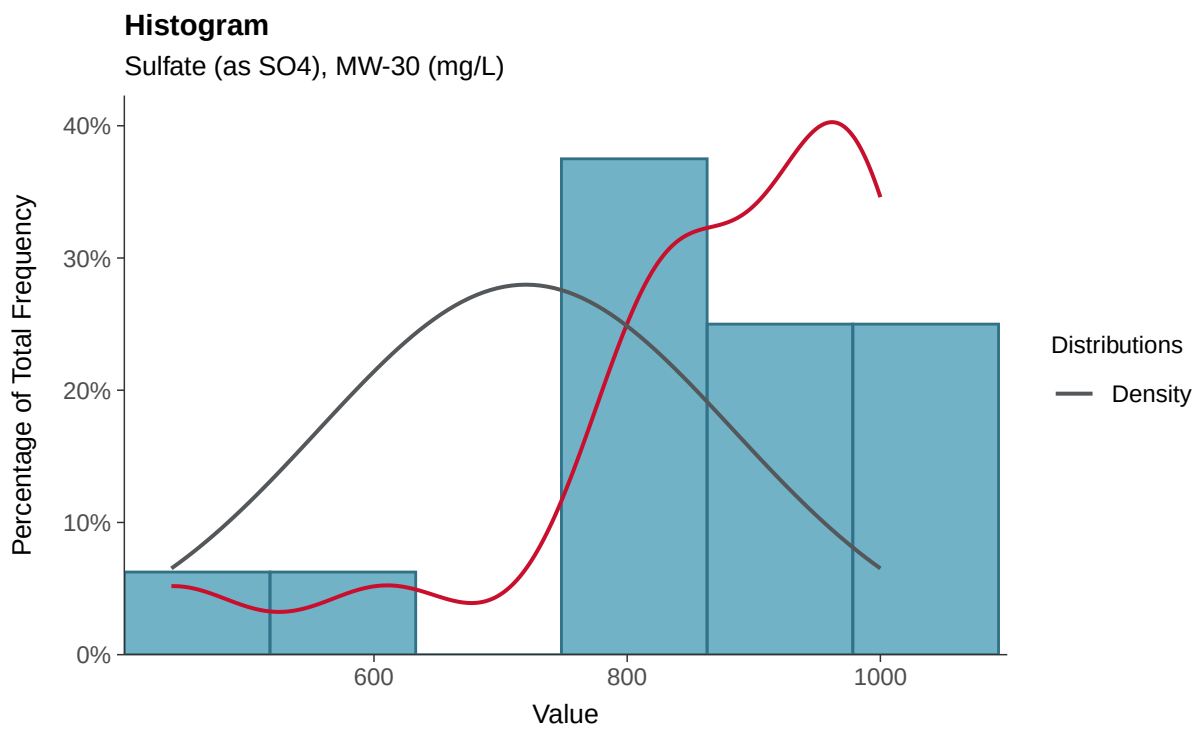
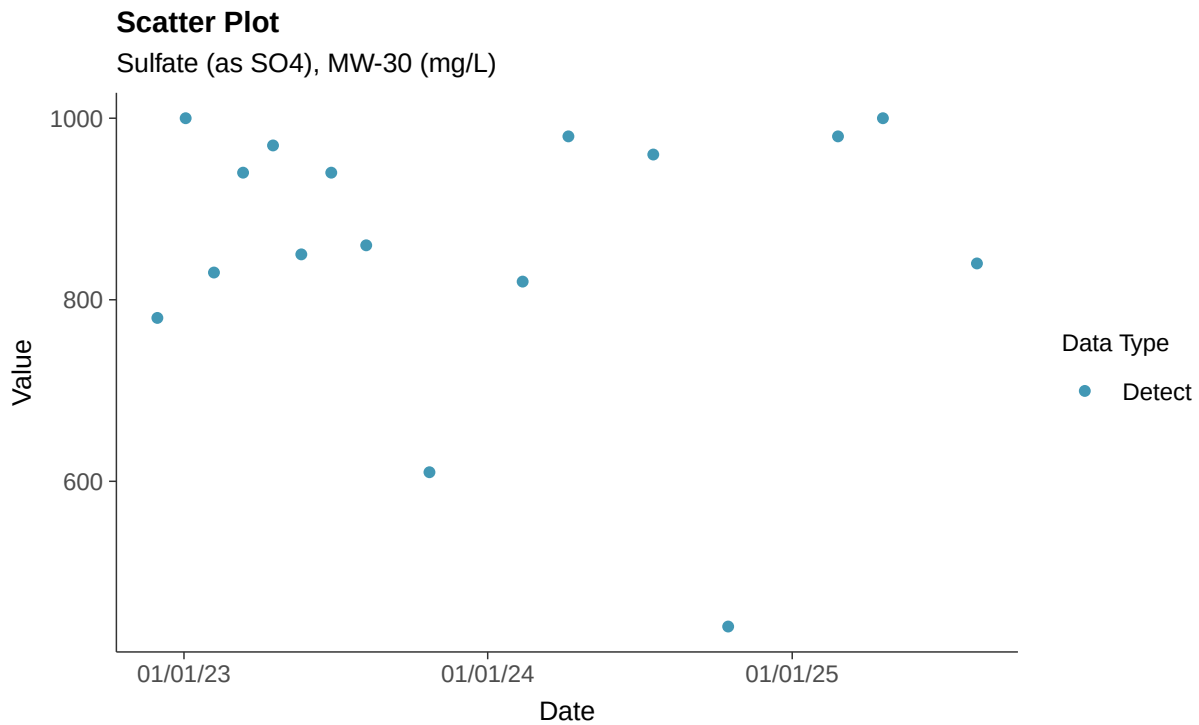






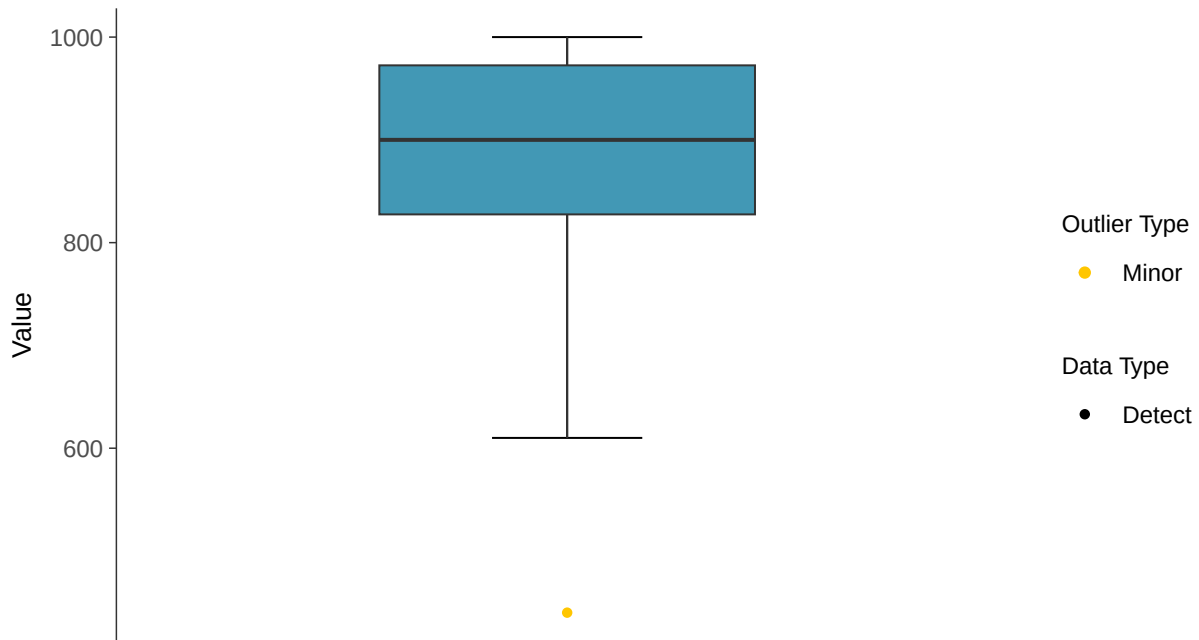
Appendix III: Sulfate (as SO₄), MW-30

ID: 40_1_3_124



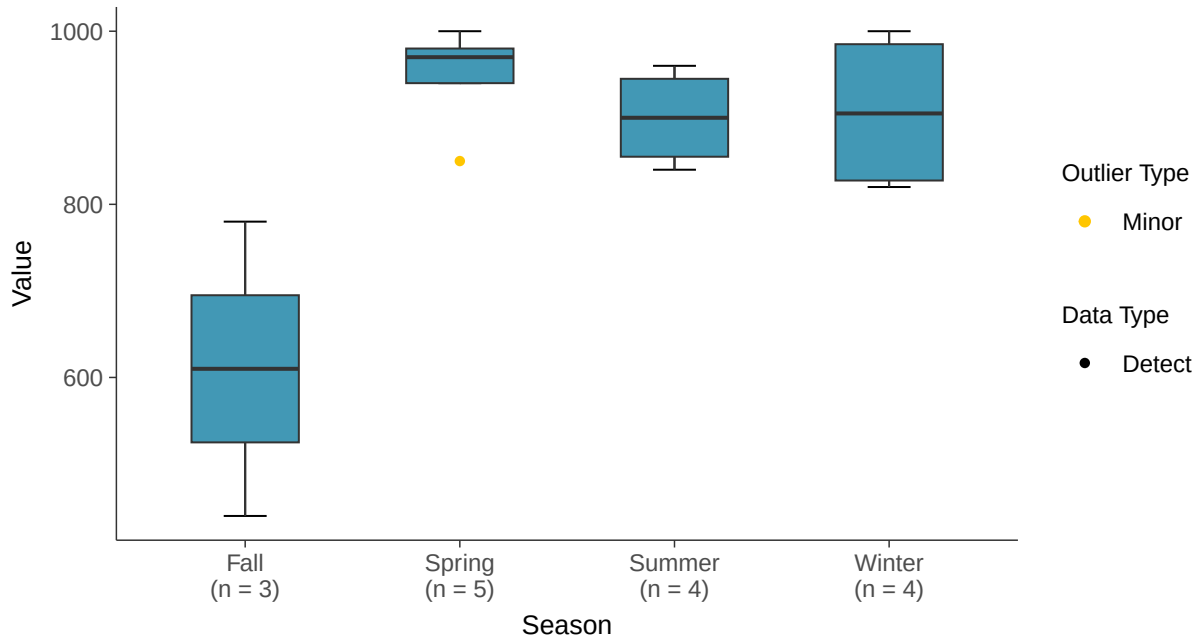
Boxplot

Sulfate (as SO₄), MW-30 (mg/L)



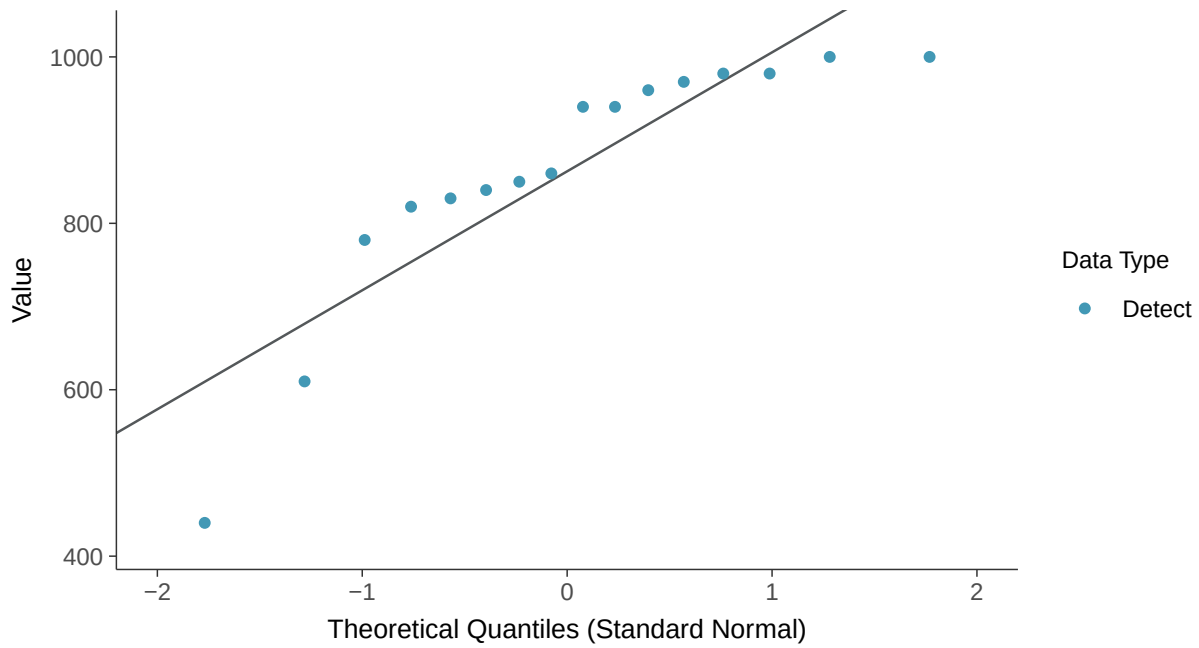
Boxplot by Season

Sulfate (as SO₄), MW-30 (mg/L)



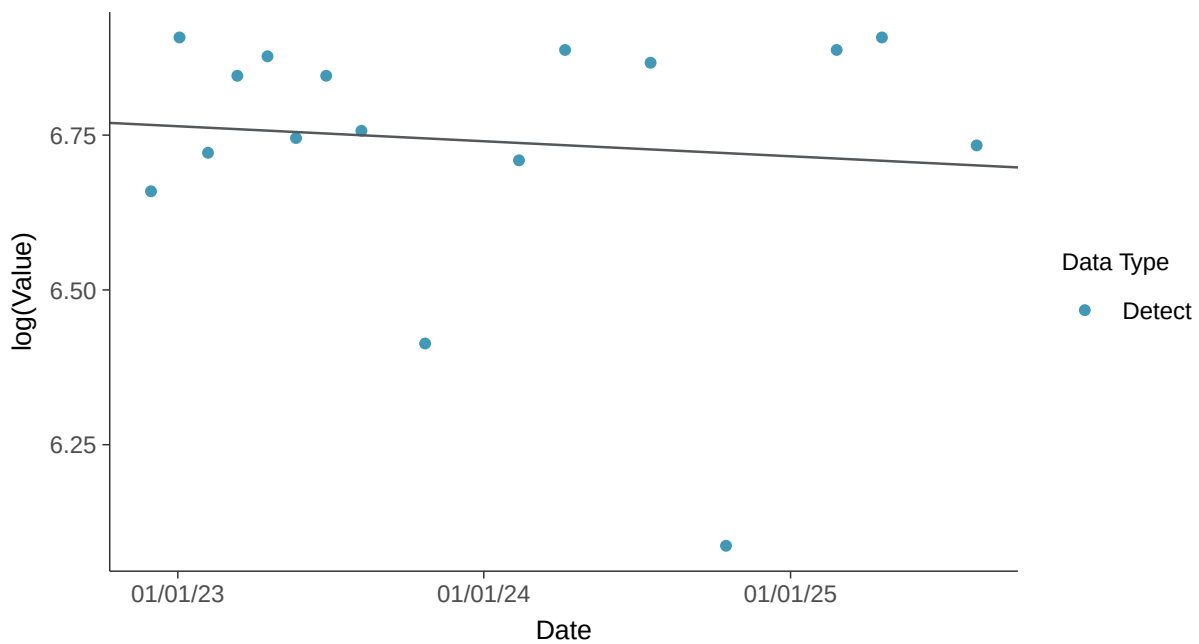
Normal Q-Q plot

Sulfate (as SO₄), MW-30 (mg/L)



Trend Regression: Lognormal MLE

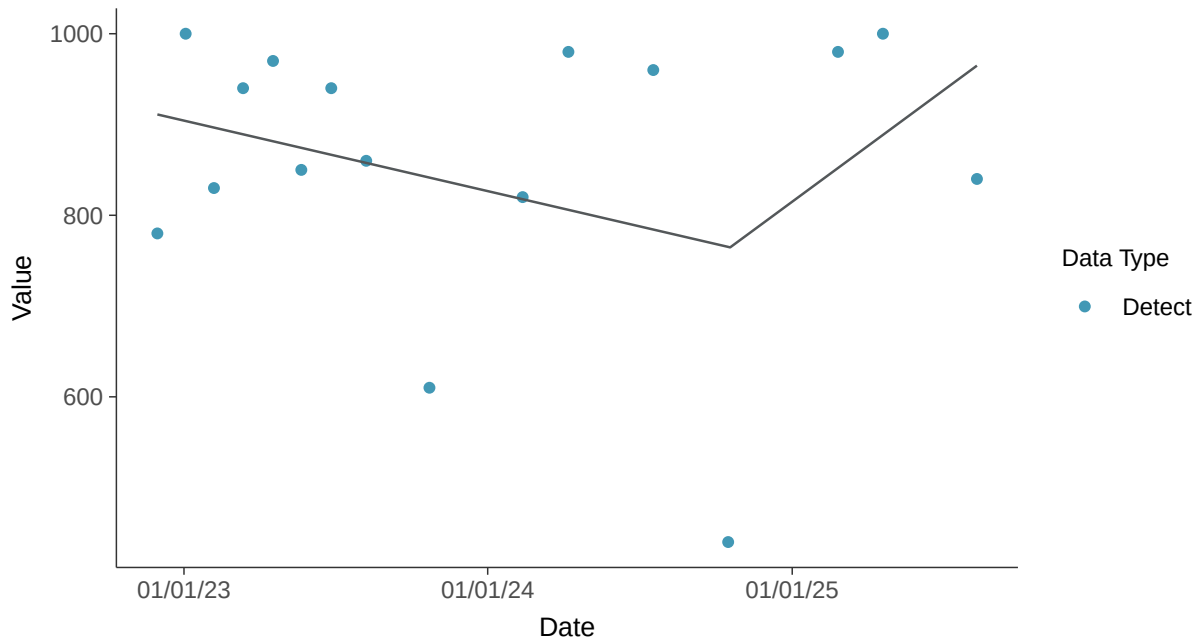
Sulfate (as SO₄), MW-30 (mg/L)





Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-30 (mg/L)

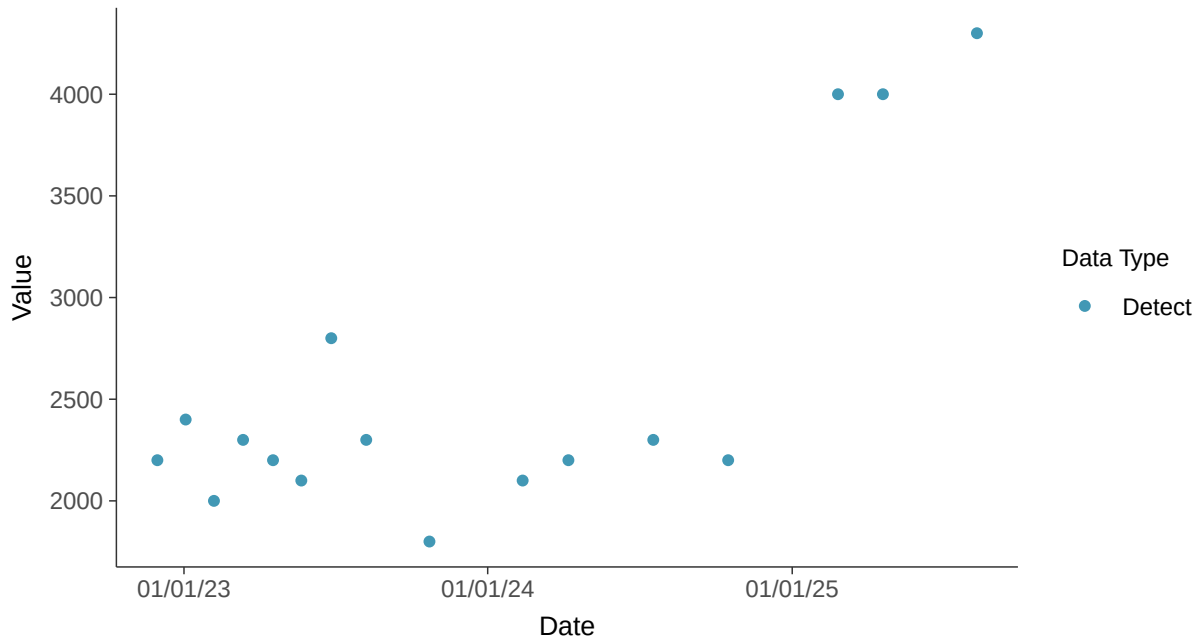


Appendix III: Total Dissolved Solids, MW-30

ID: 40_1_3_126

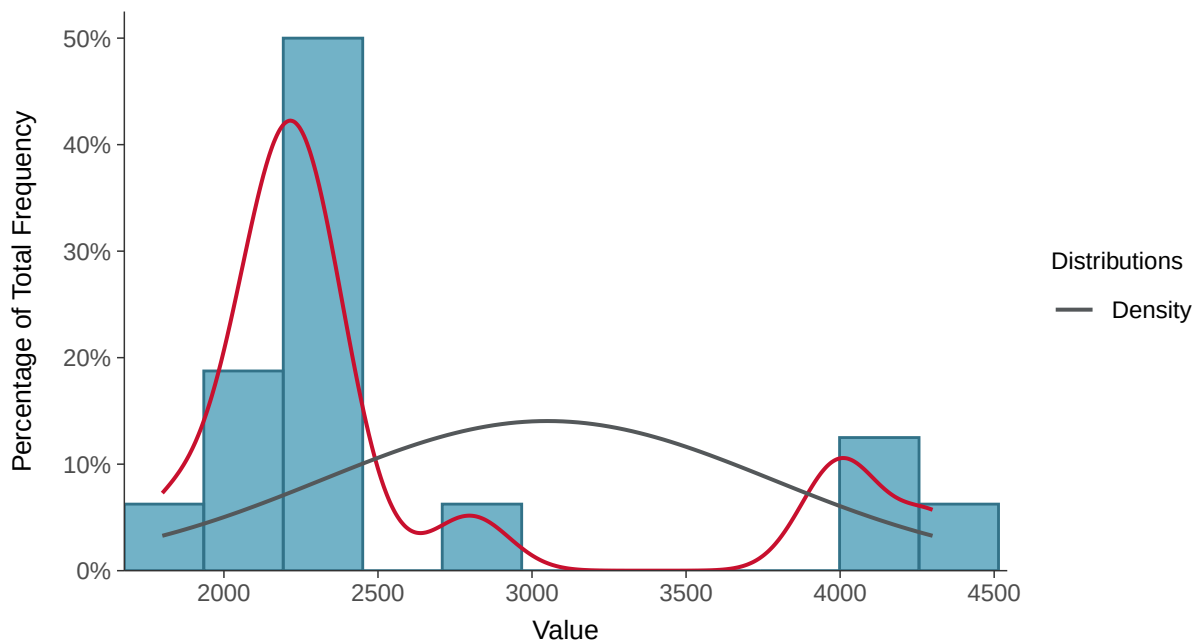
Scatter Plot

Total Dissolved Solids, MW-30 (mg/L)



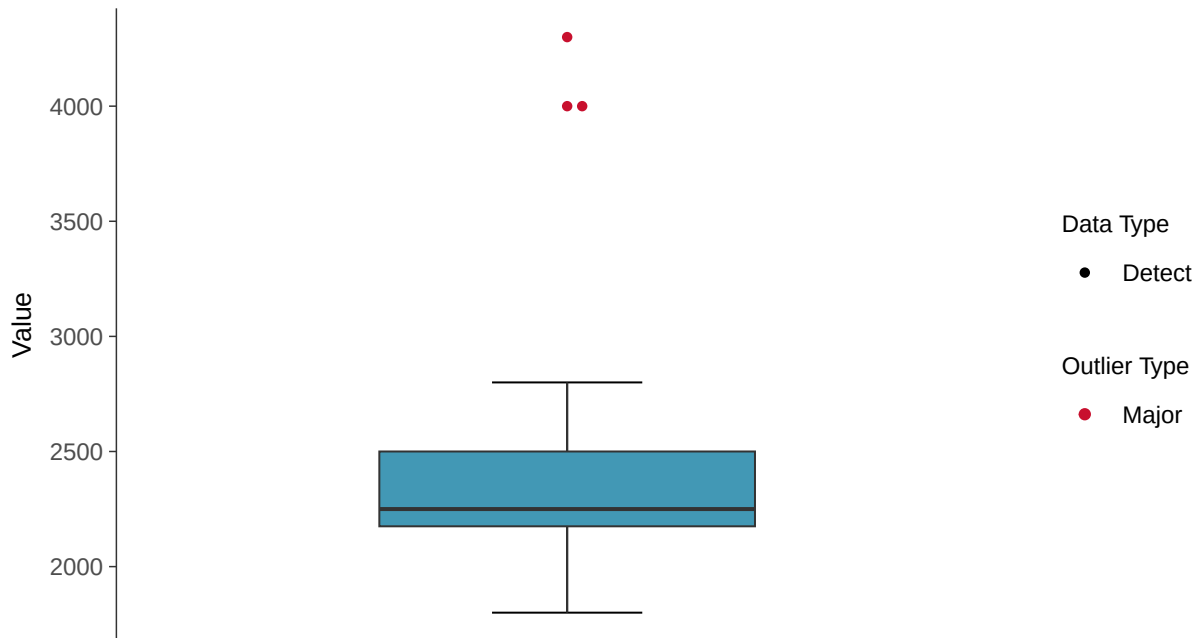
Histogram

Total Dissolved Solids, MW-30 (mg/L)



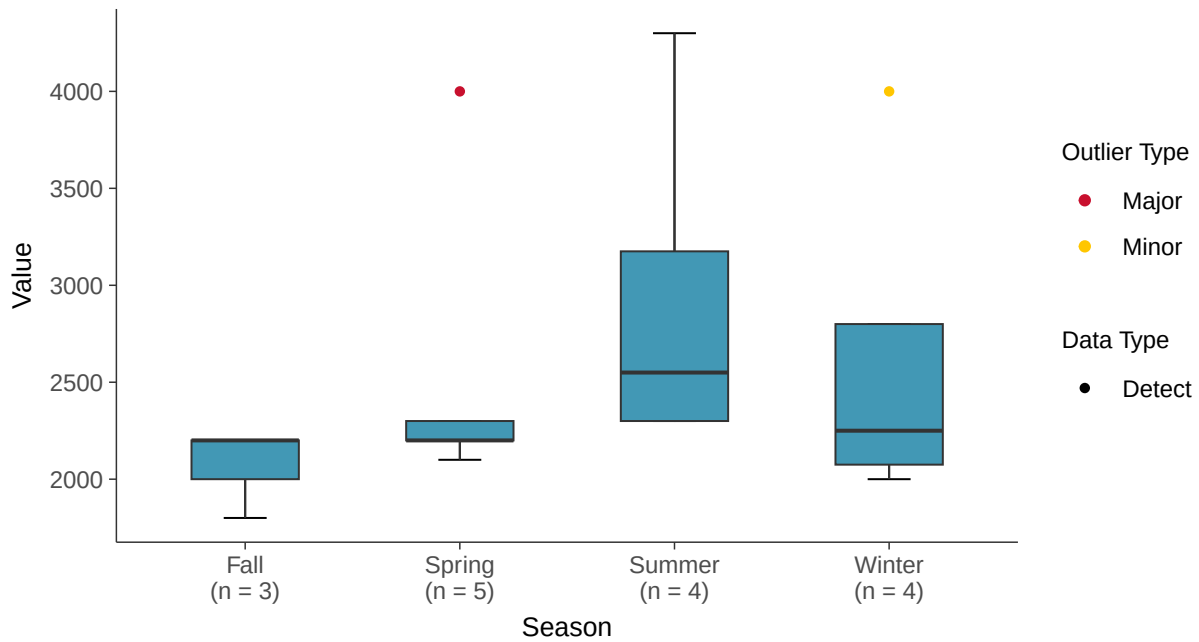
Boxplot

Total Dissolved Solids, MW-30 (mg/L)



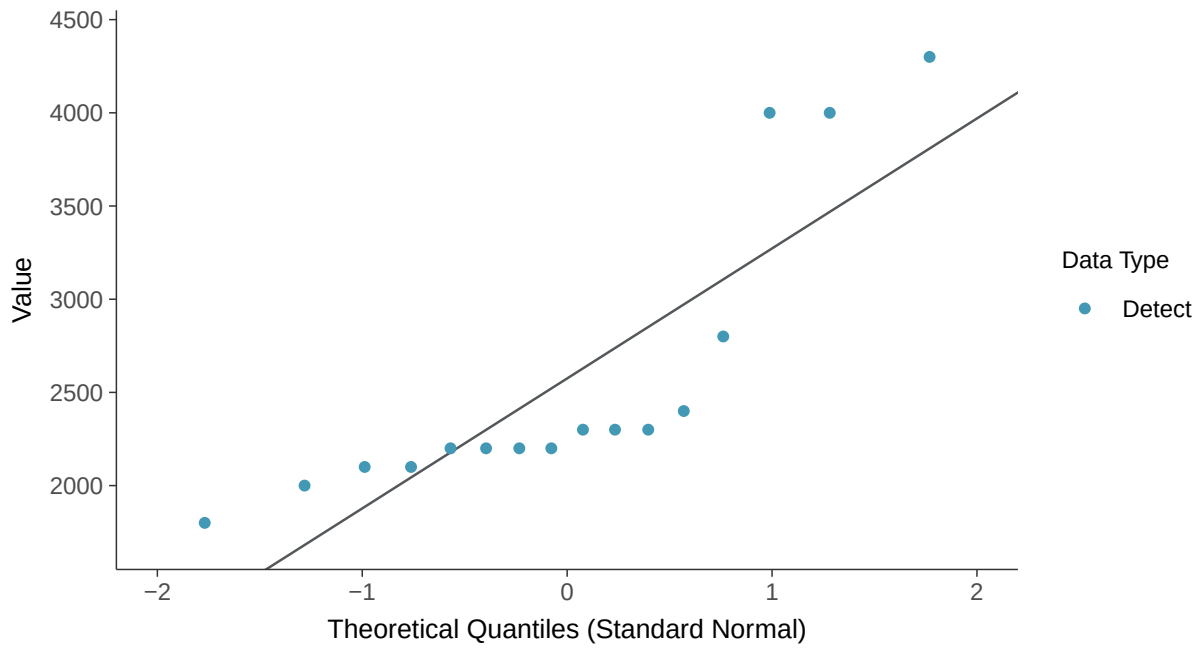
Boxplot by Season

Total Dissolved Solids, MW-30 (mg/L)



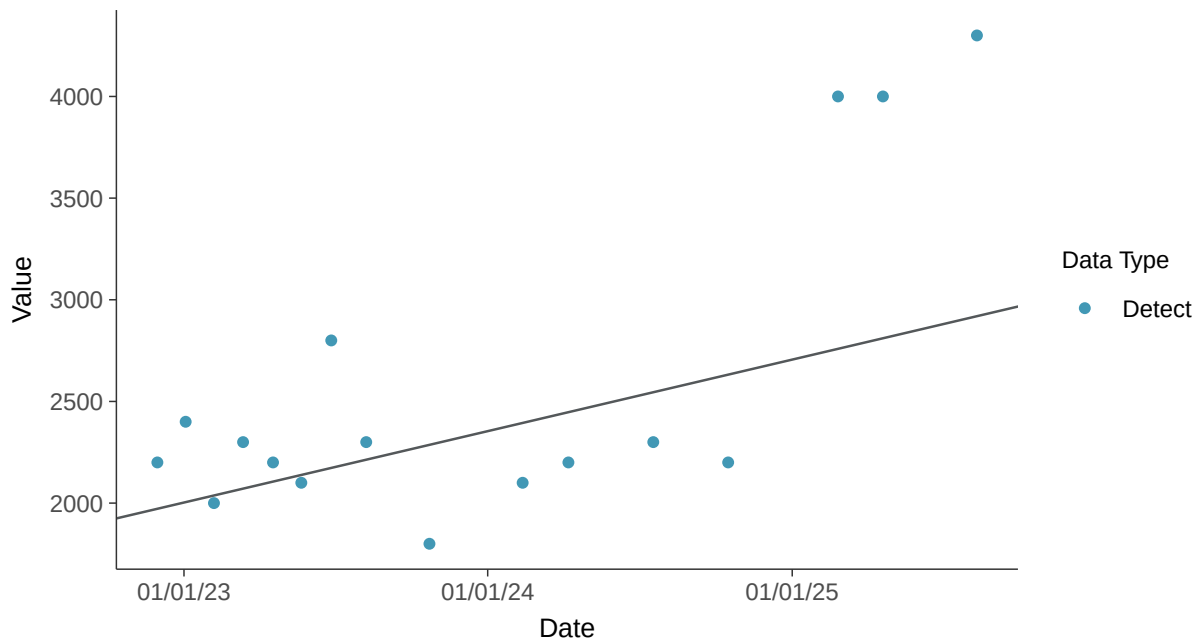
Normal Q-Q plot

Total Dissolved Solids, MW-30 (mg/L)



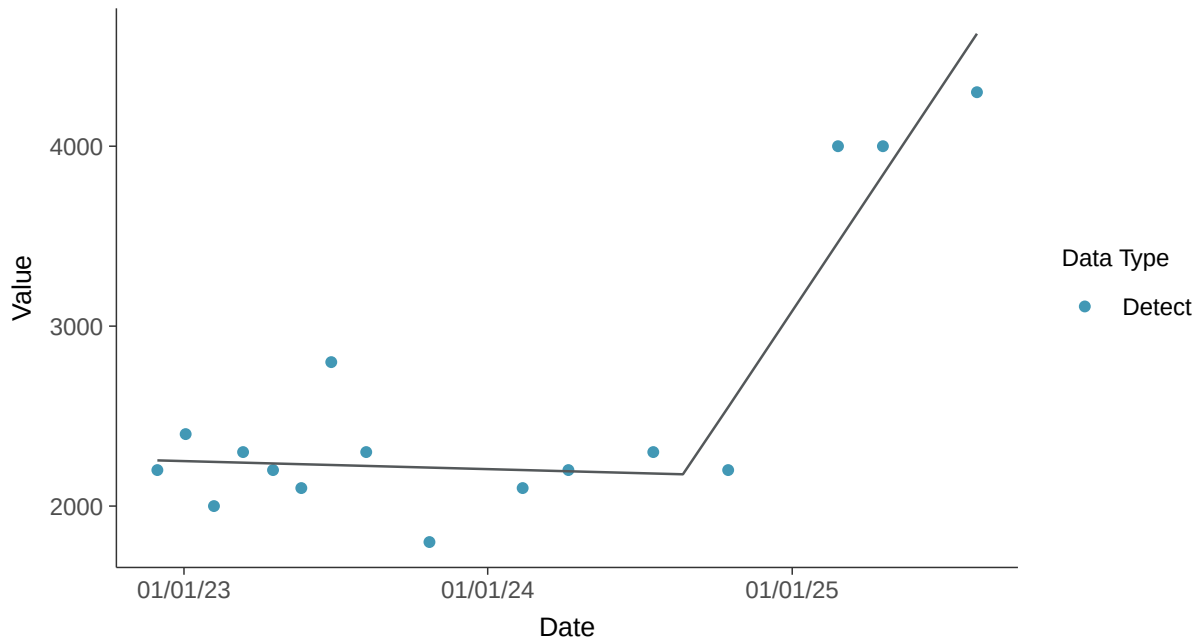
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-30 (mg/L)



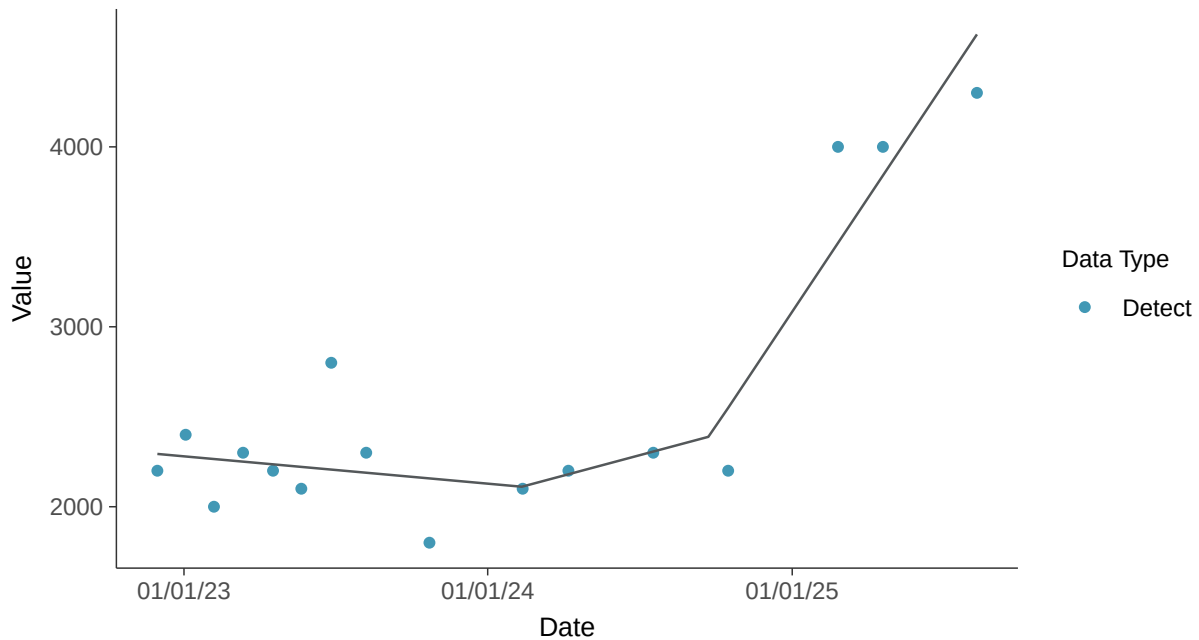
Trend Regression: Piecewise Linear-Linear

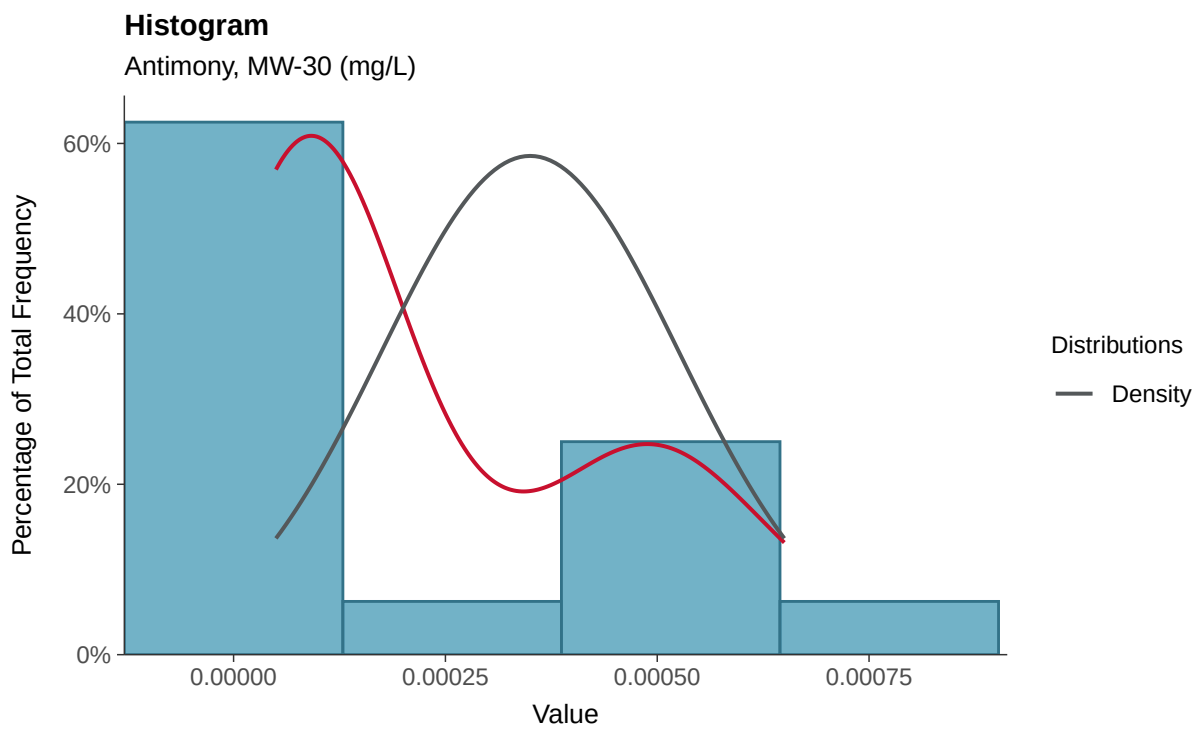
Total Dissolved Solids, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

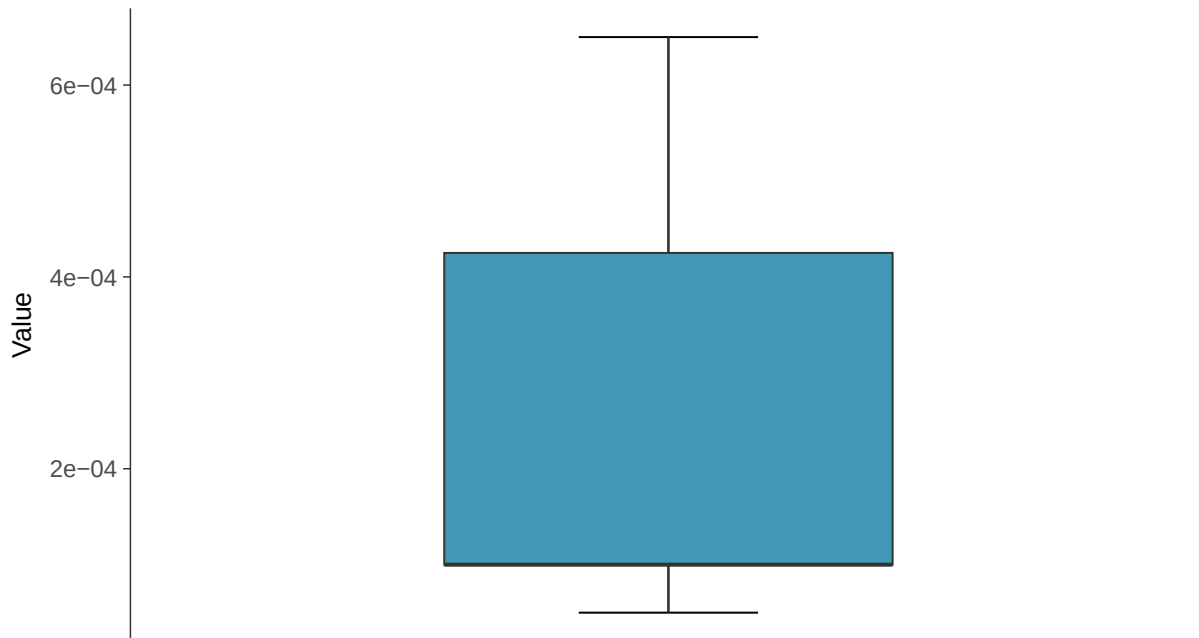
Total Dissolved Solids, MW-30 (mg/L)





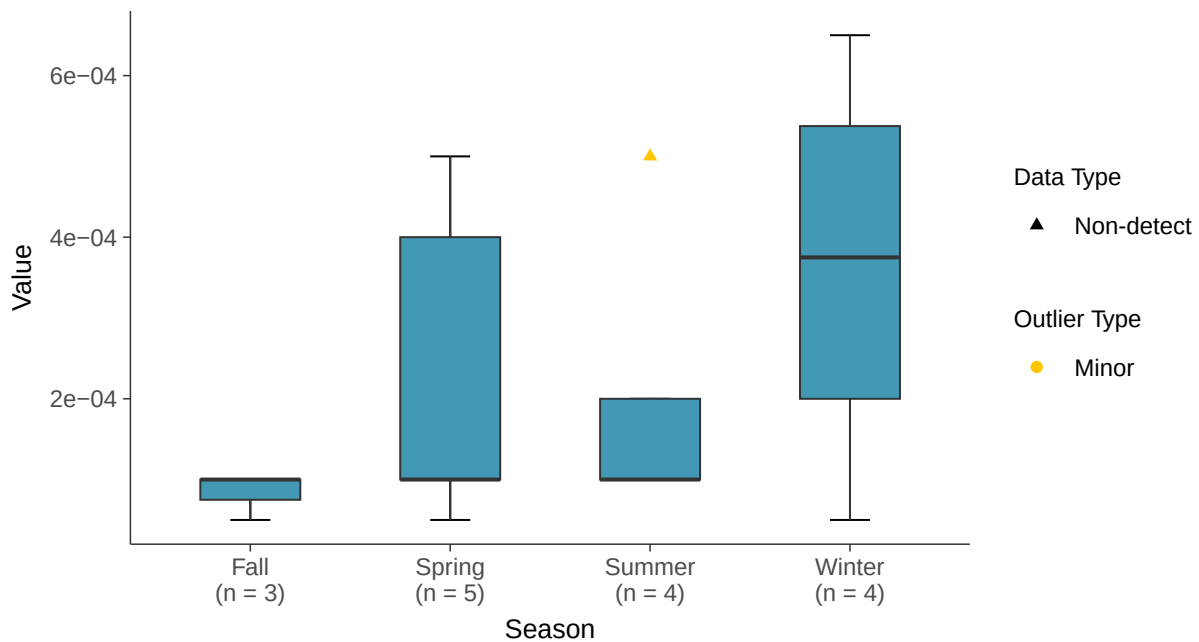
Boxplot

Antimony, MW-30 (mg/L)



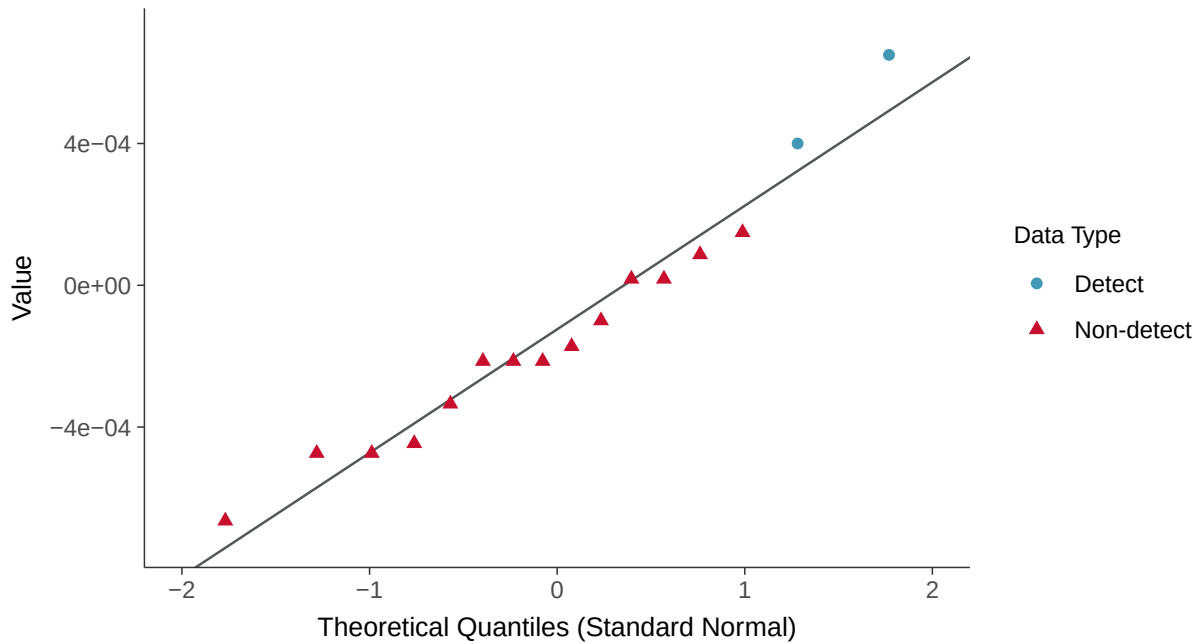
Boxplot by Season

Antimony, MW-30 (mg/L)



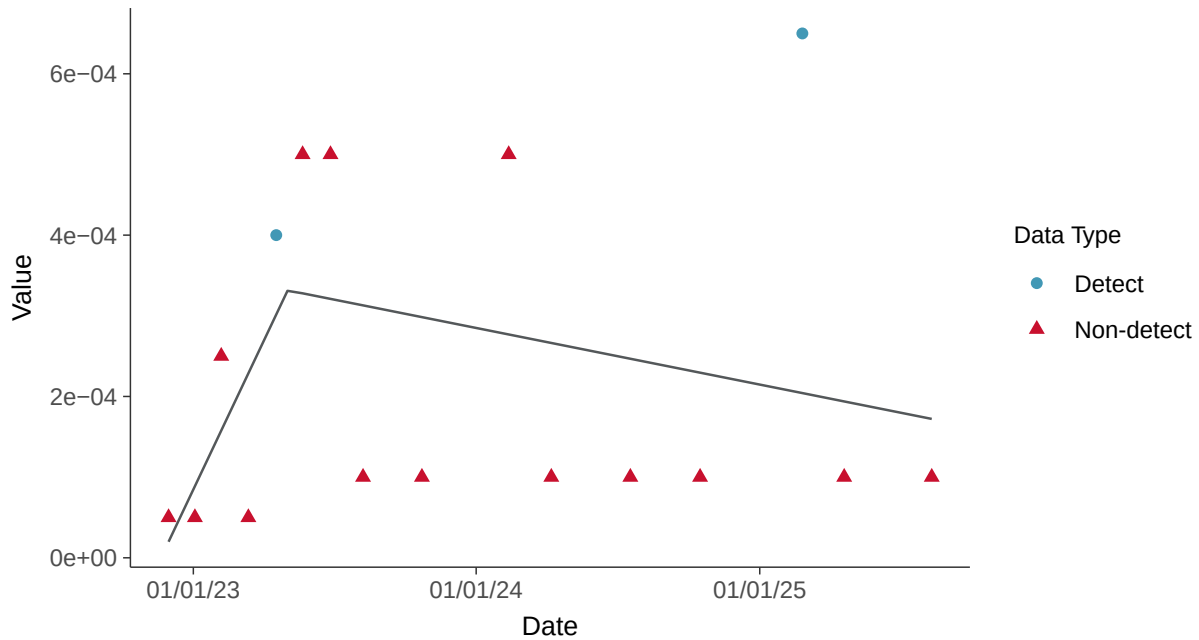
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-30 (mg/L)

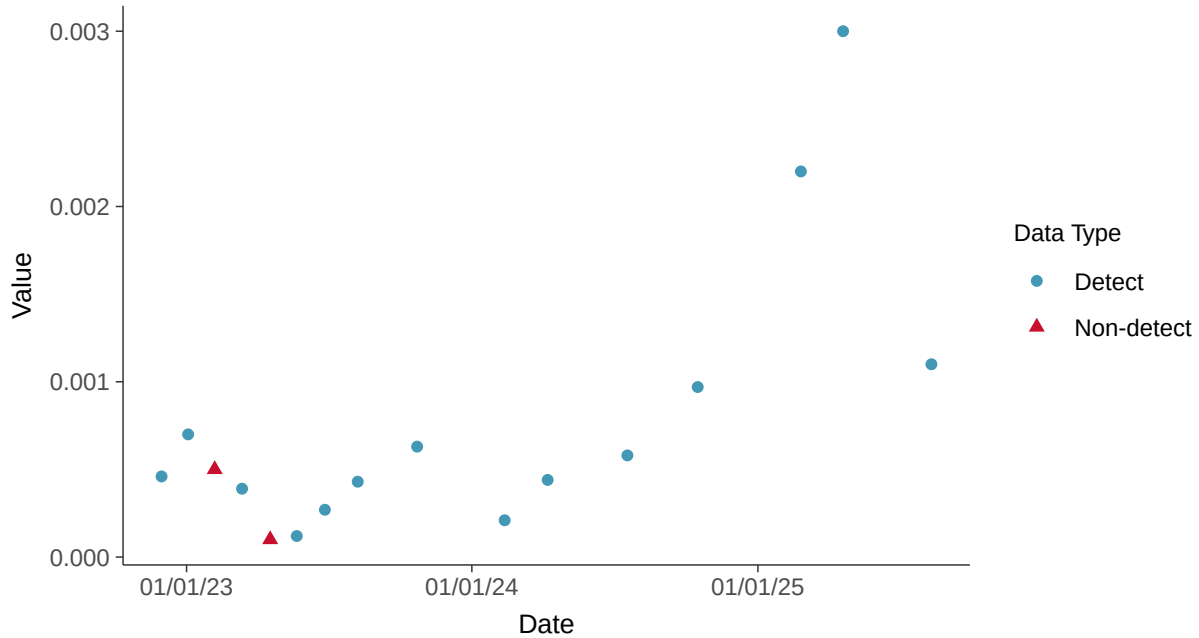


Appendix IV: Arsenic, MW-30

ID: 40_1_4_102

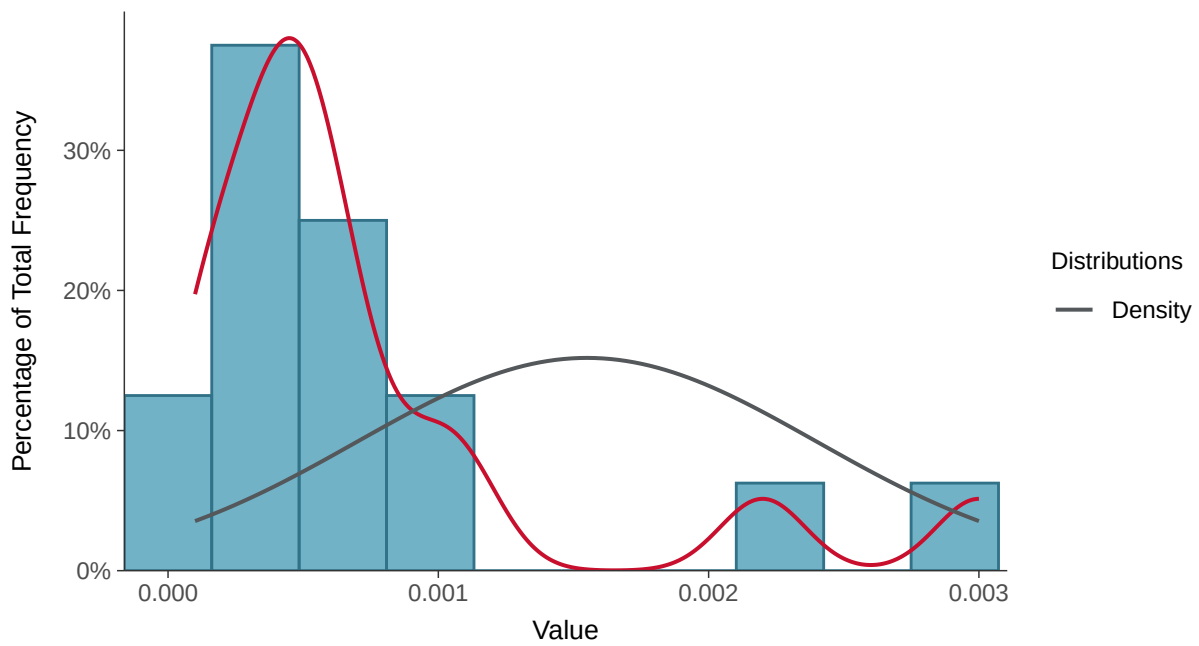
Scatter Plot

Arsenic, MW-30 (mg/L)



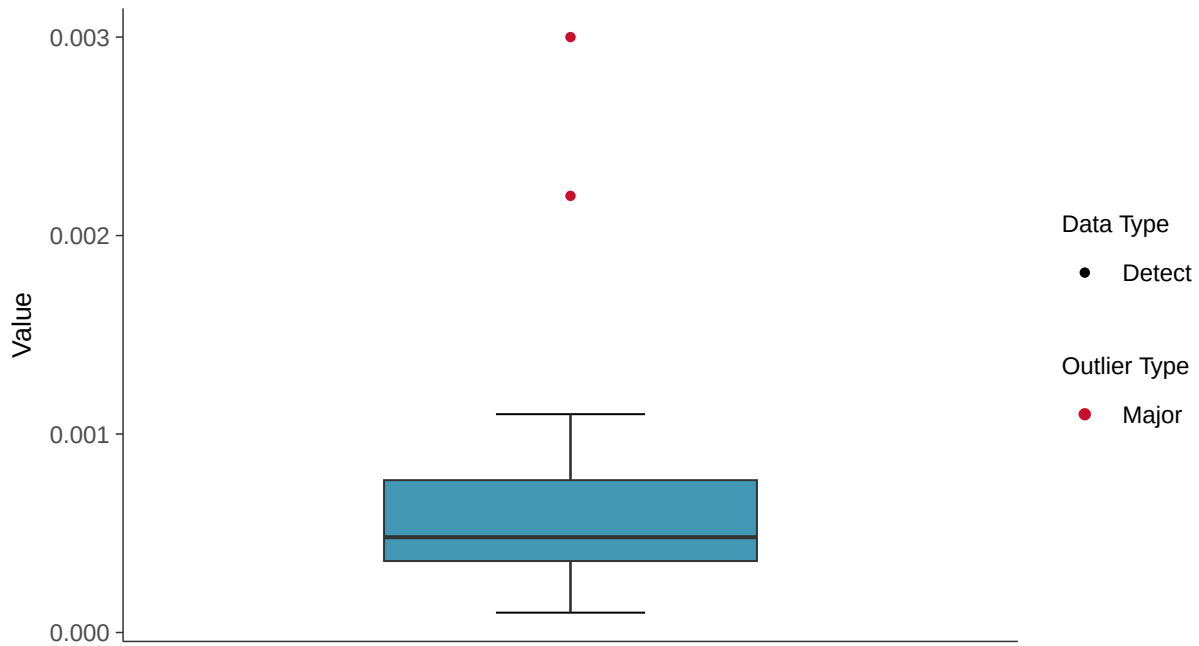
Histogram

Arsenic, MW-30 (mg/L)



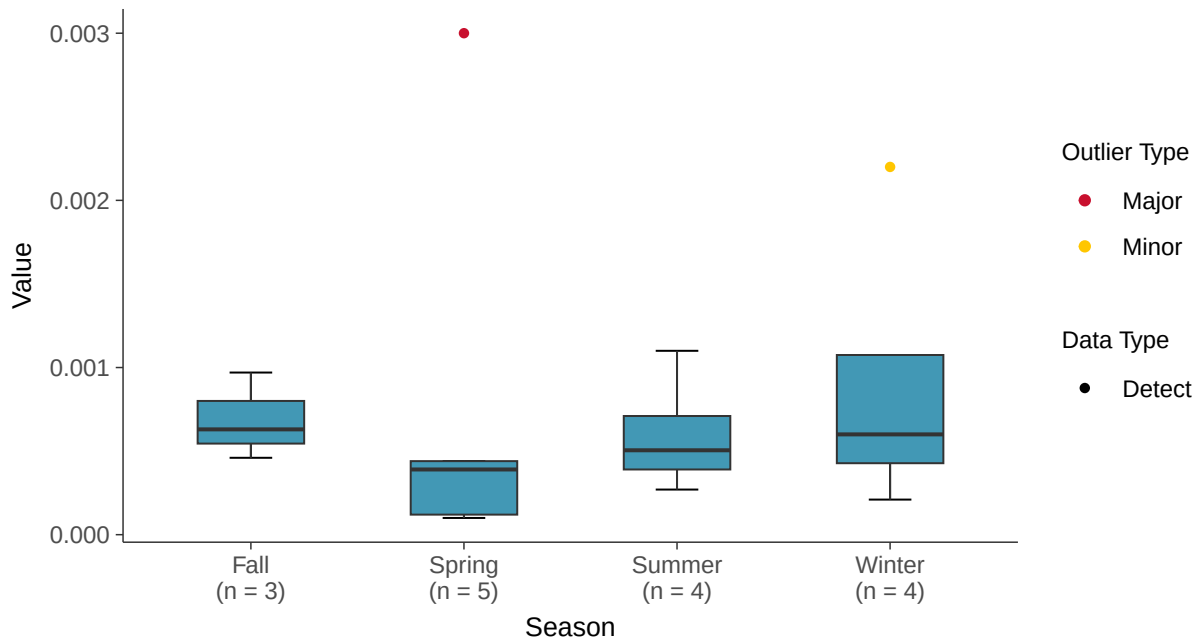
Boxplot

Arsenic, MW-30 (mg/L)



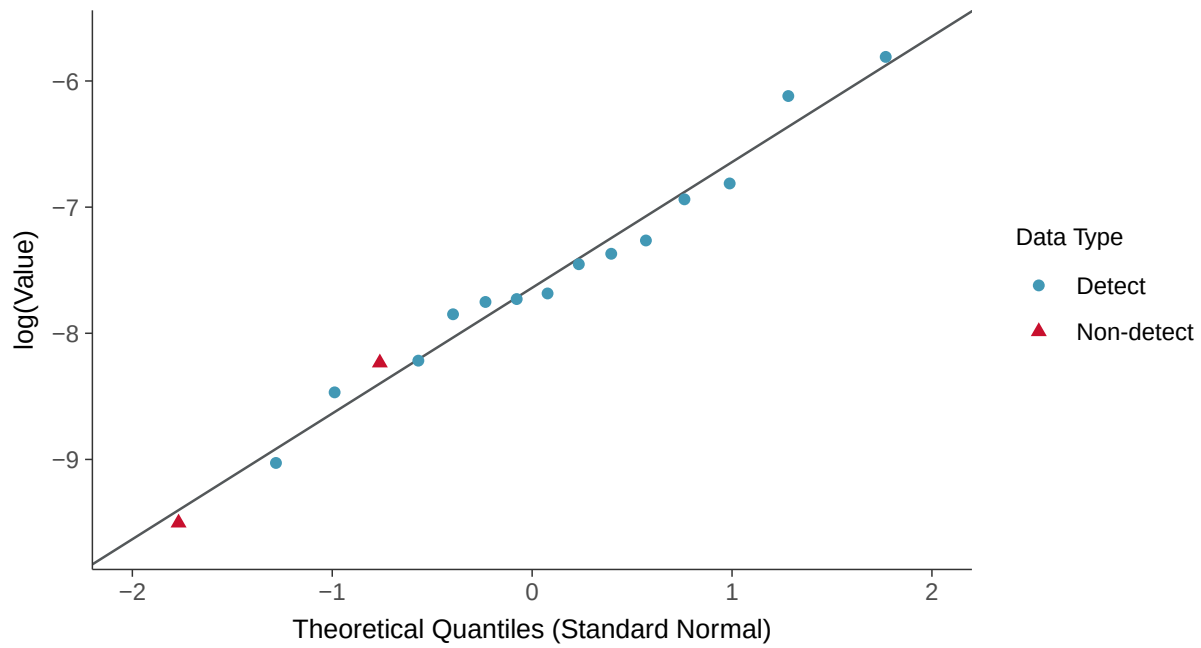
Boxplot by Season

Arsenic, MW-30 (mg/L)



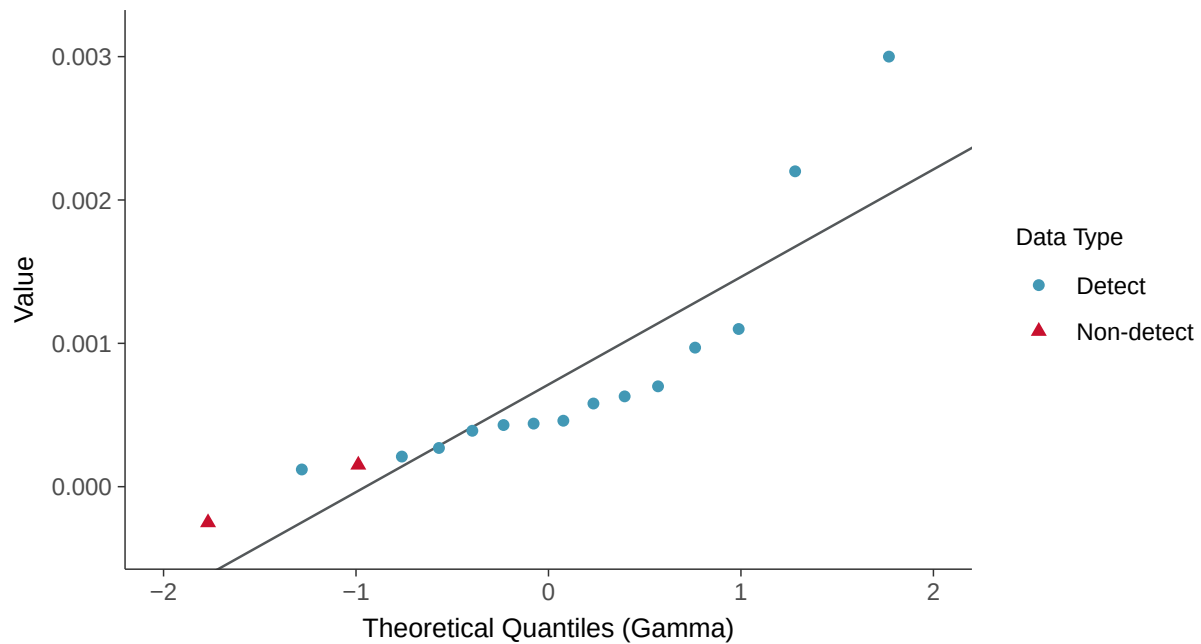
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-30 (mg/L)

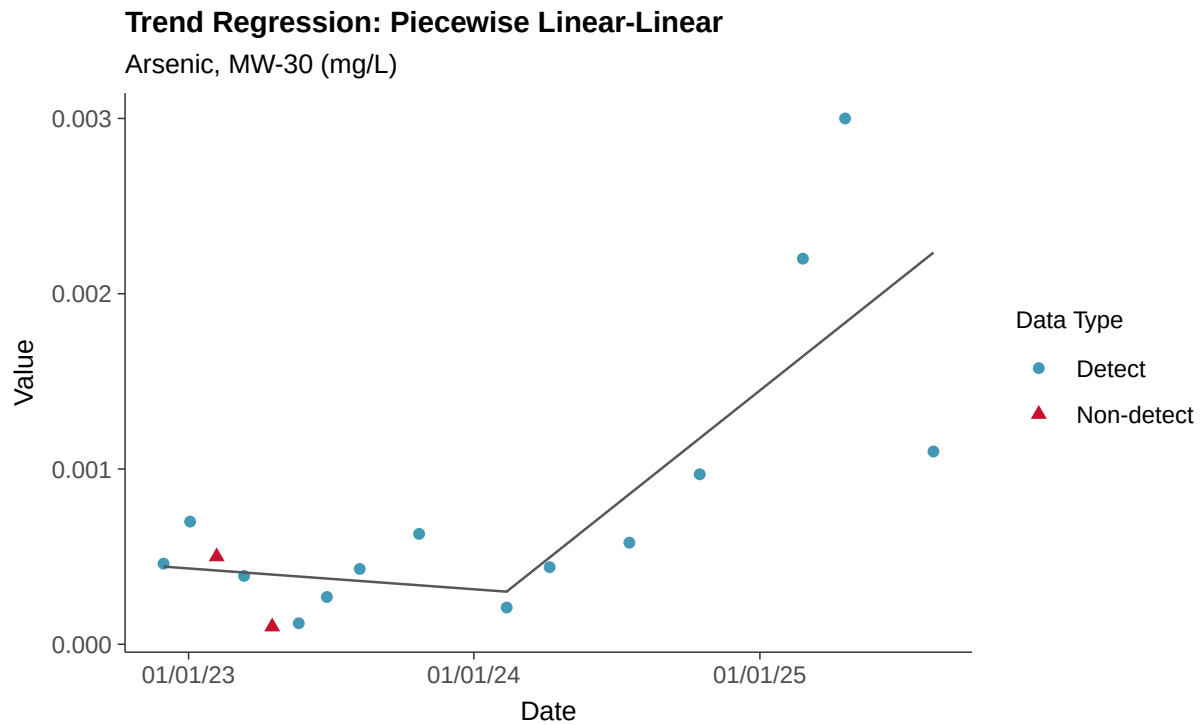


Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-30 (mg/L)

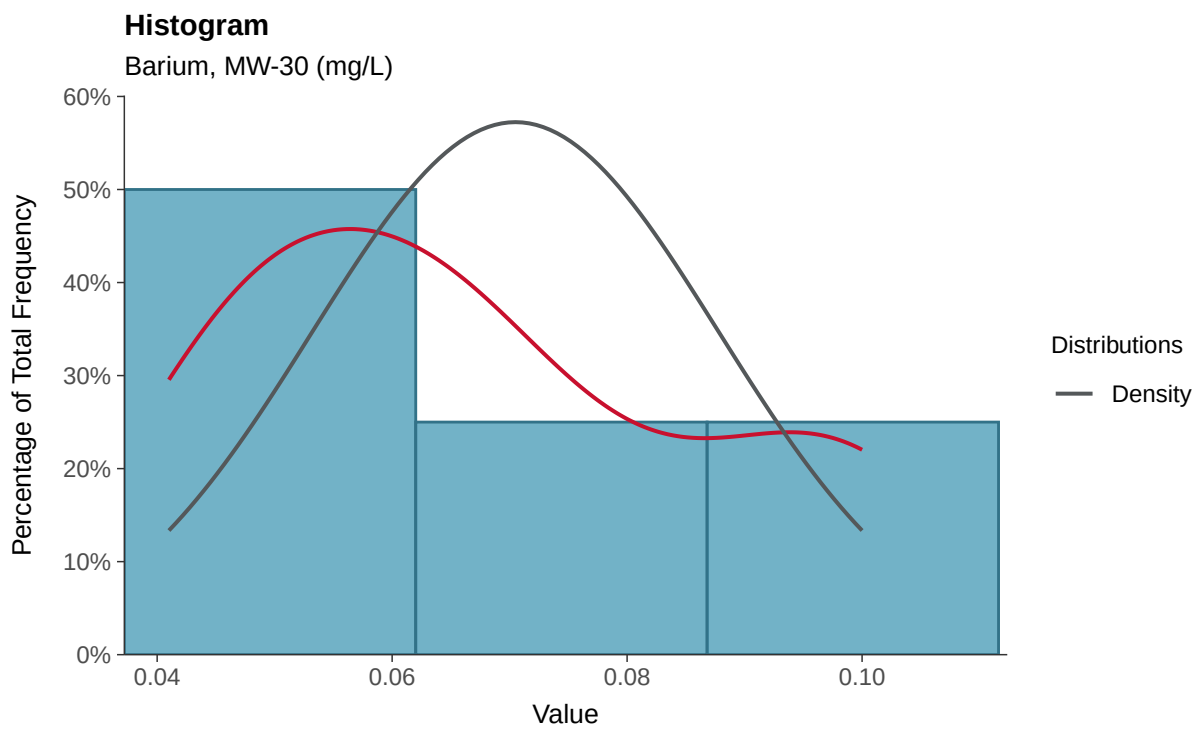
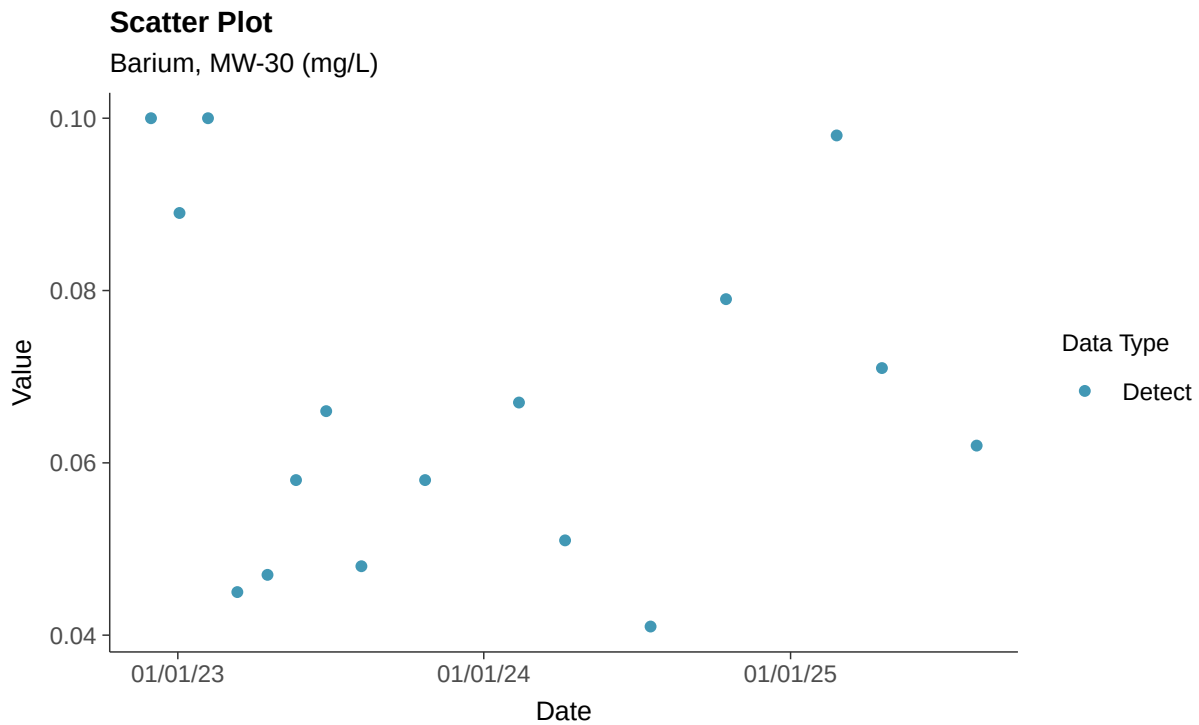


Arsenic, MW-30 (mg/L)



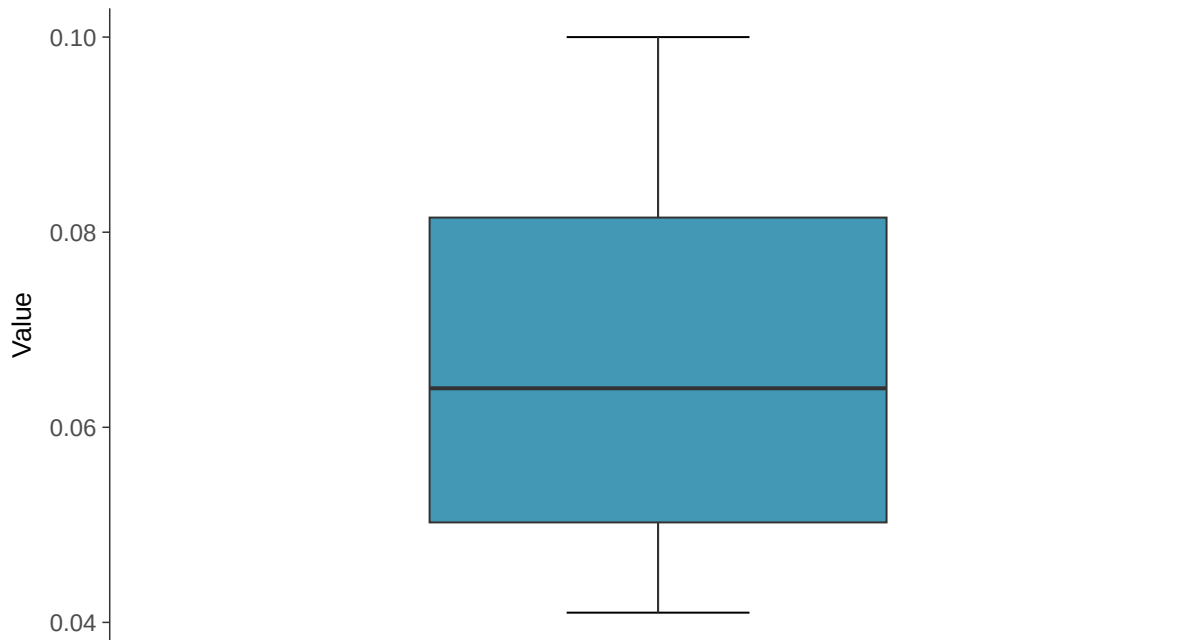
Appendix IV: Barium, MW-30

ID: 40_1_4_103



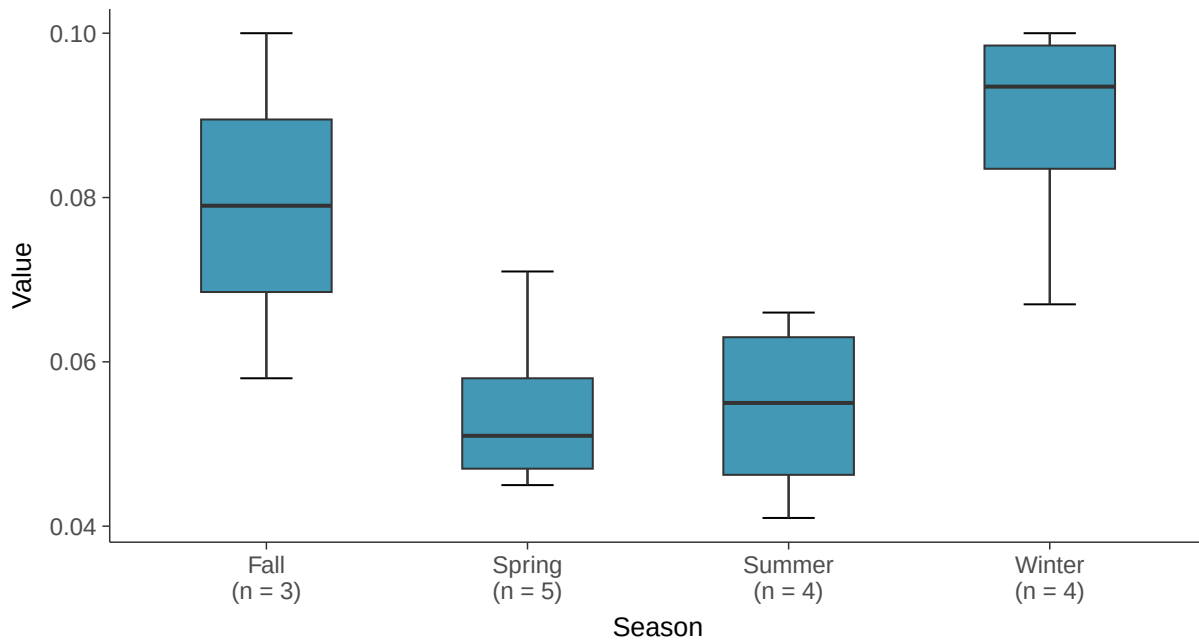
Boxplot

Barium, MW-30 (mg/L)



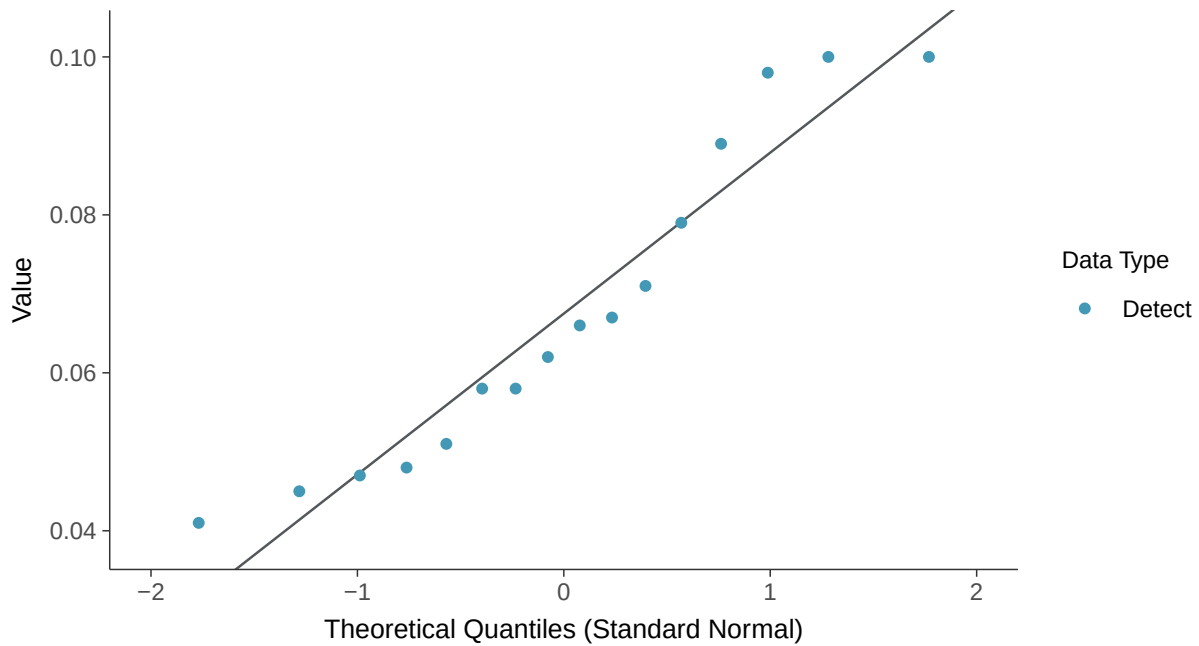
Boxplot by Season

Barium, MW-30 (mg/L)



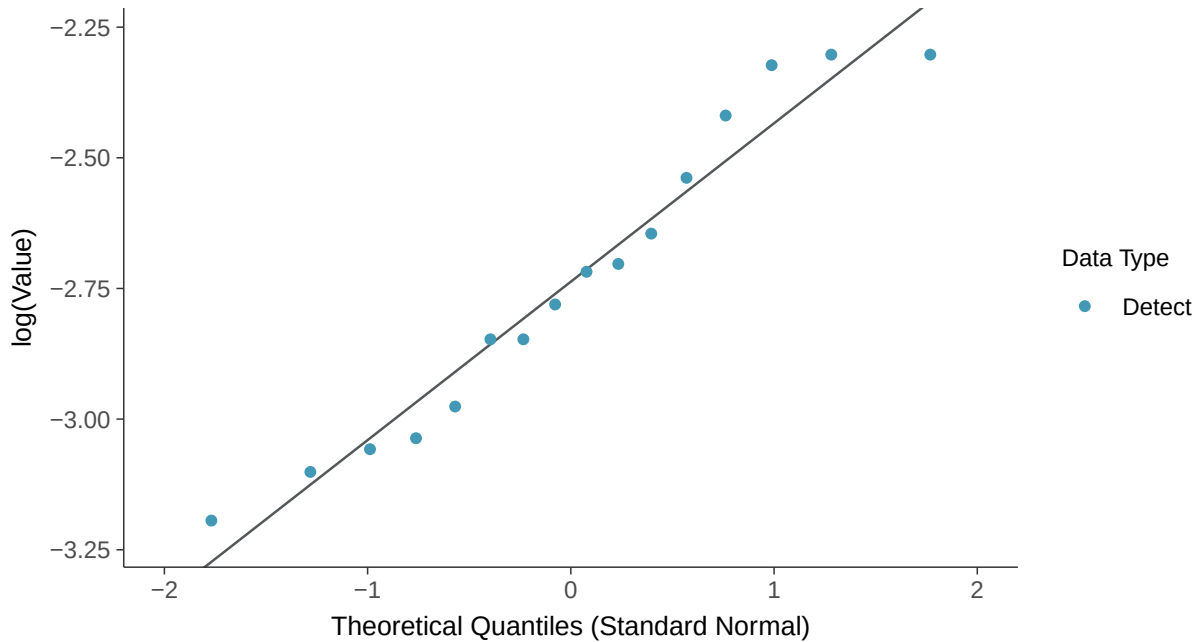
Normal Q-Q plot

Barium, MW-30 (mg/L)



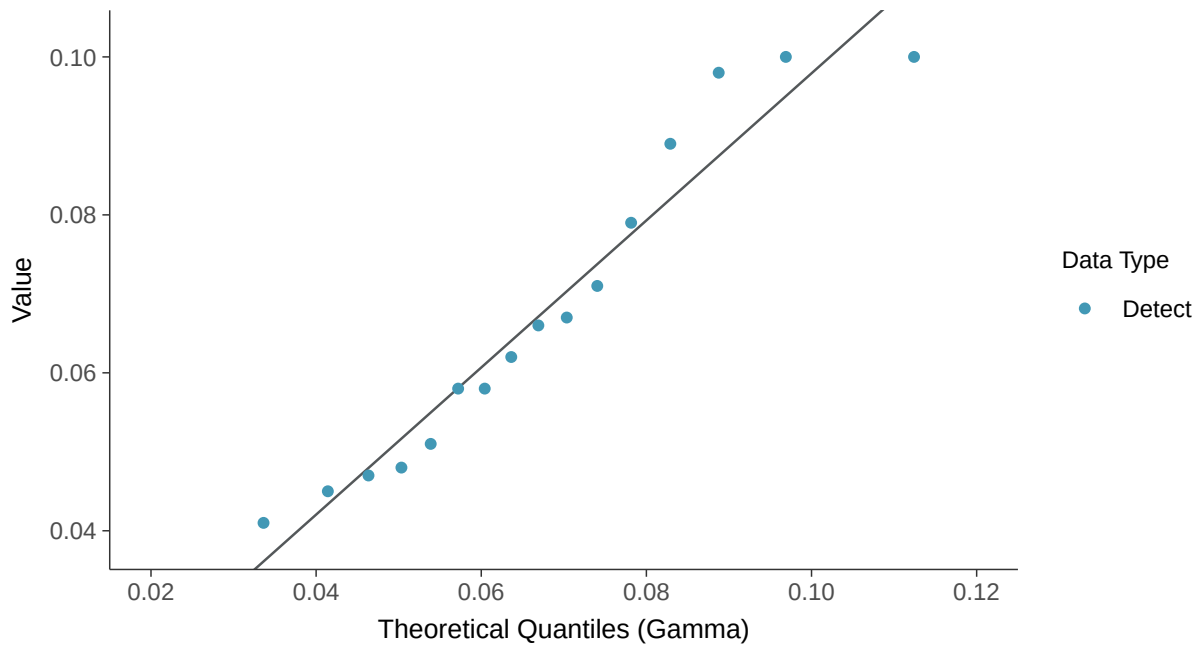
Lognormal Q-Q plot

Barium, MW-30 (mg/L)



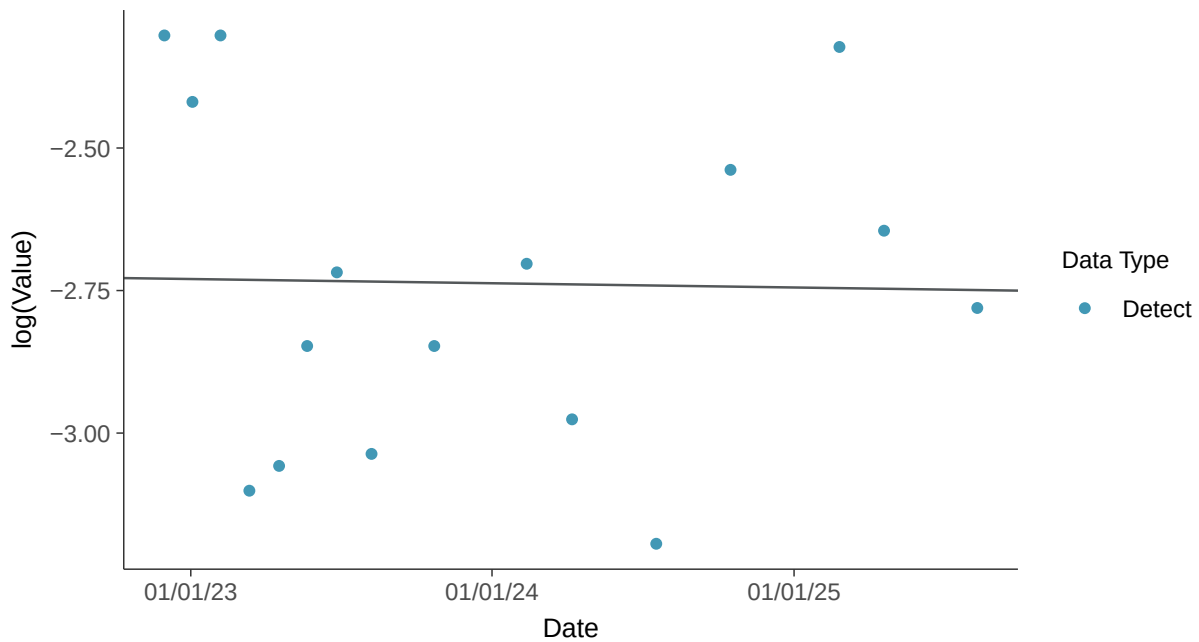
Gamma Q-Q plot

Barium, MW-30 (mg/L)



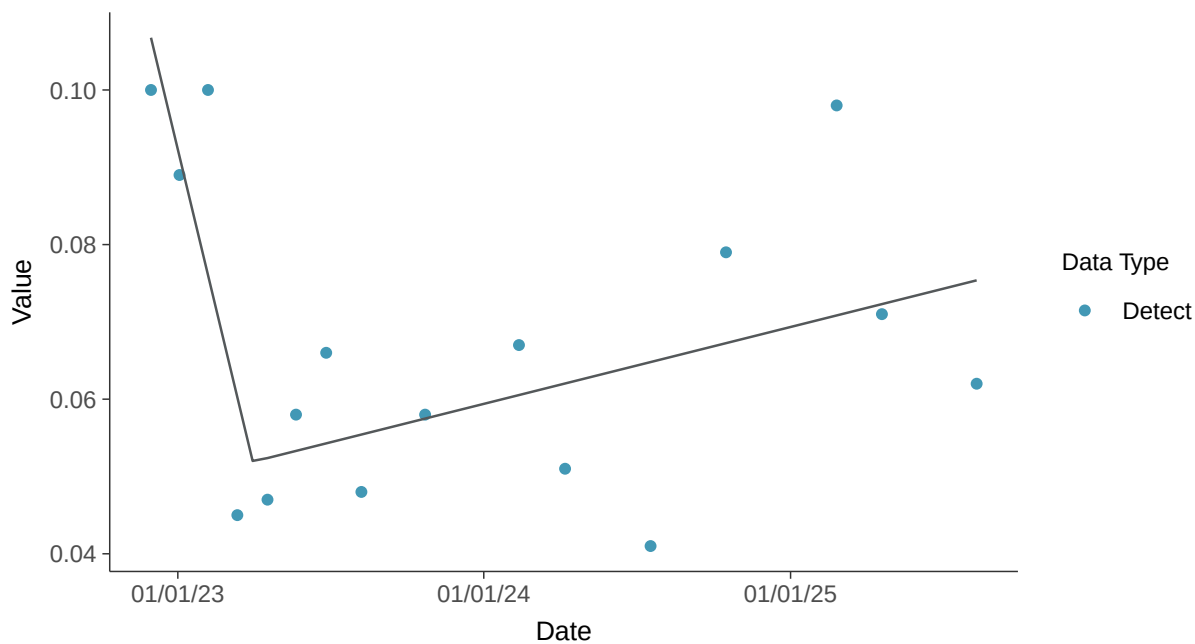
Trend Regression: Lognormal MLE

Barium, MW-30 (mg/L)



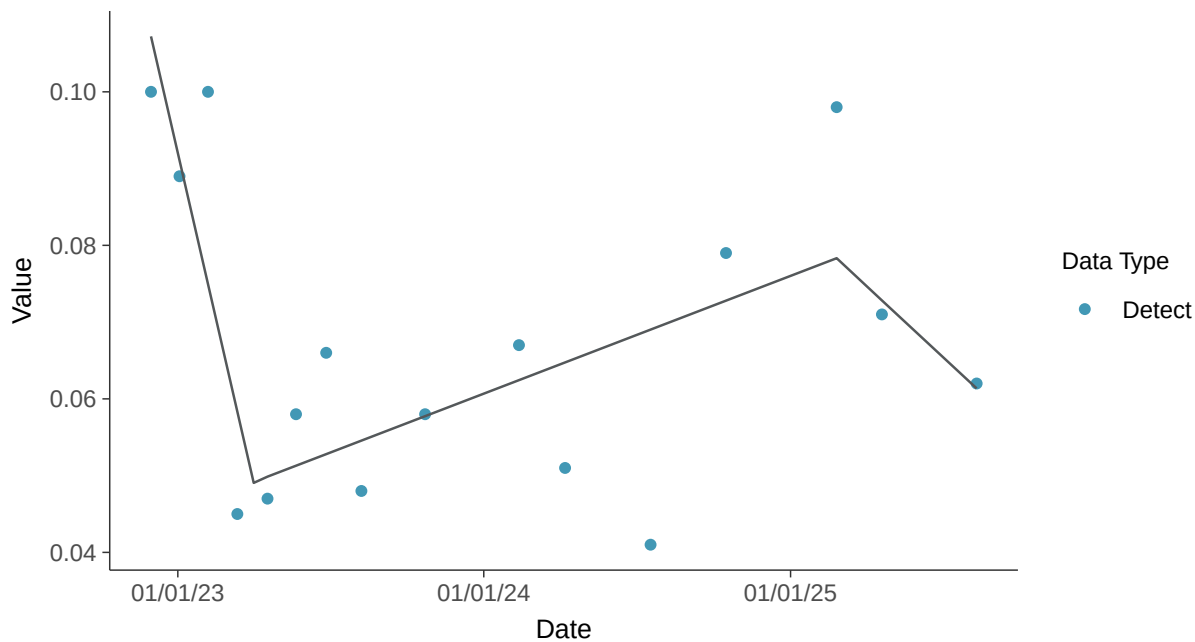
Trend Regression: Piecewise Linear-Linear

Barium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

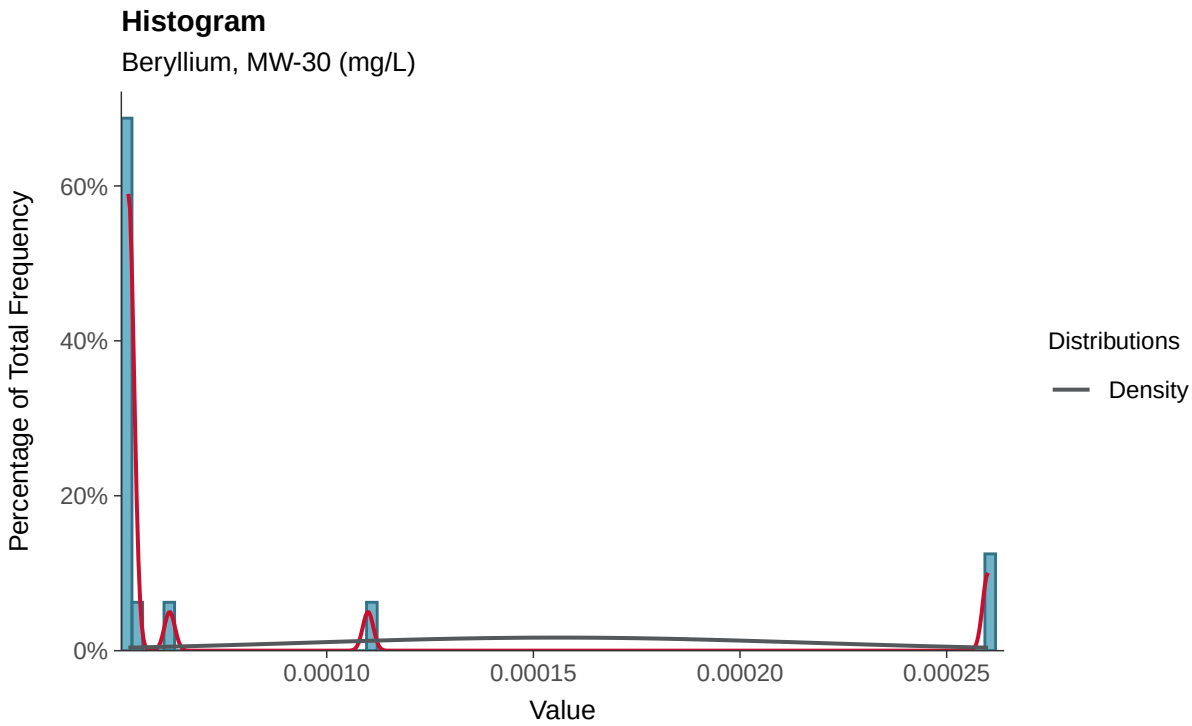
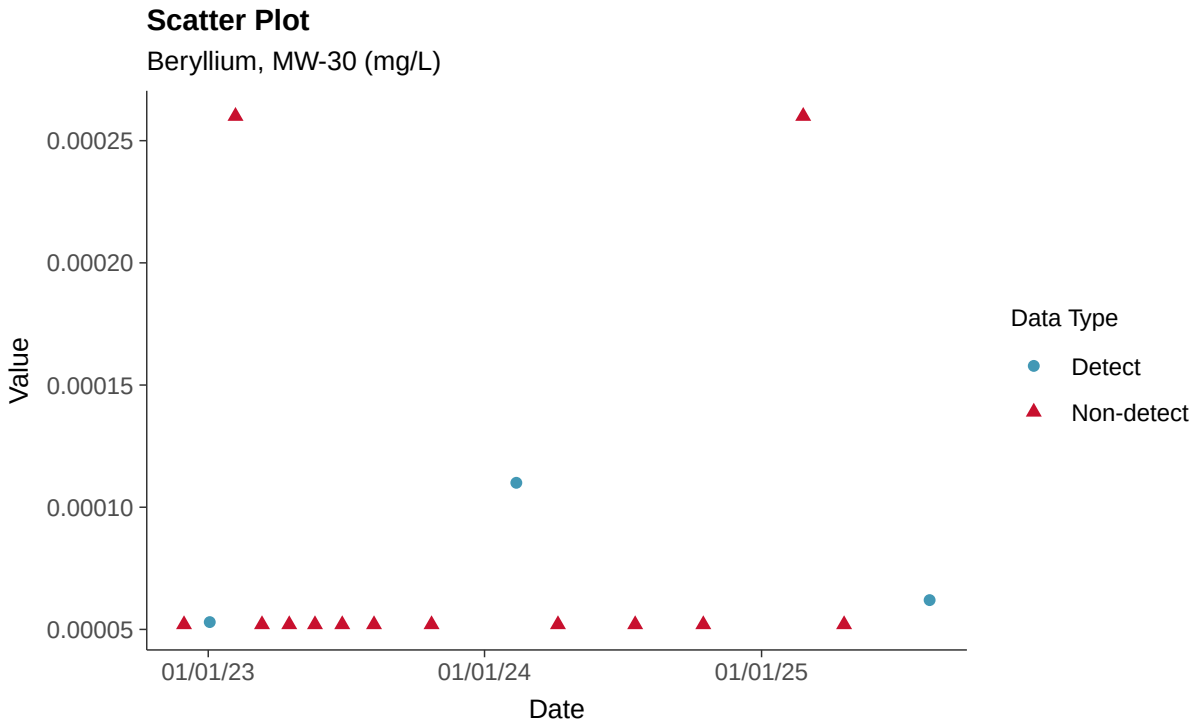
Barium, MW-30 (mg/L)

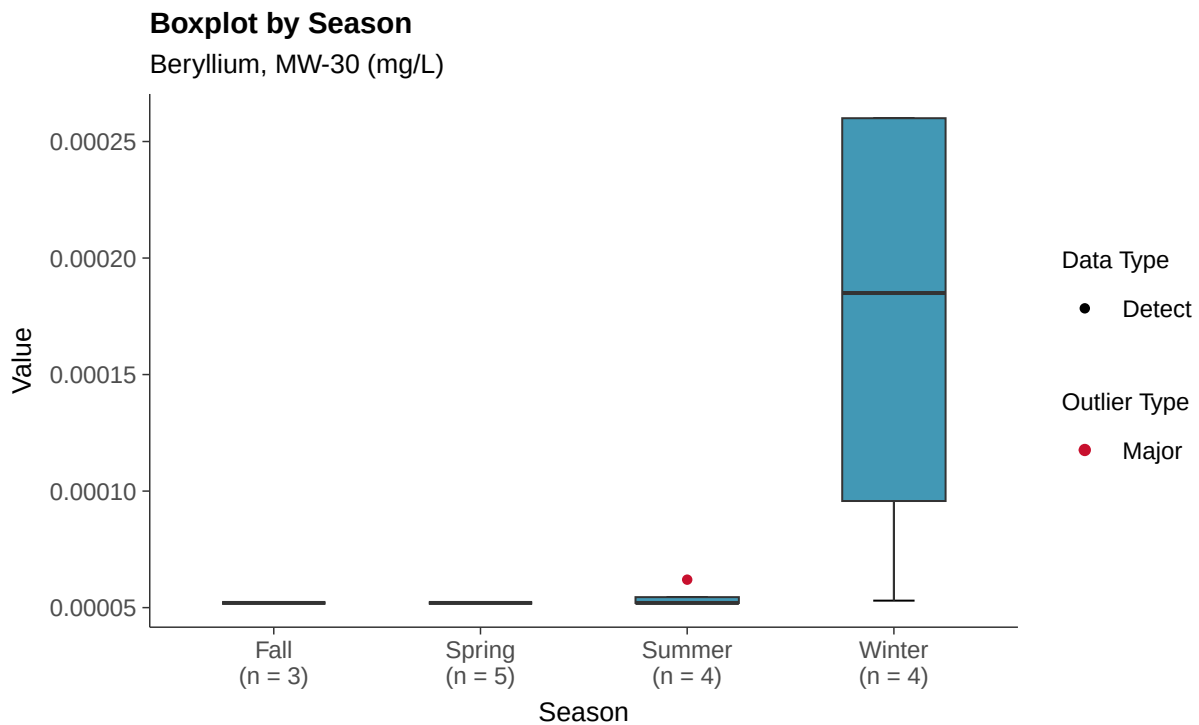
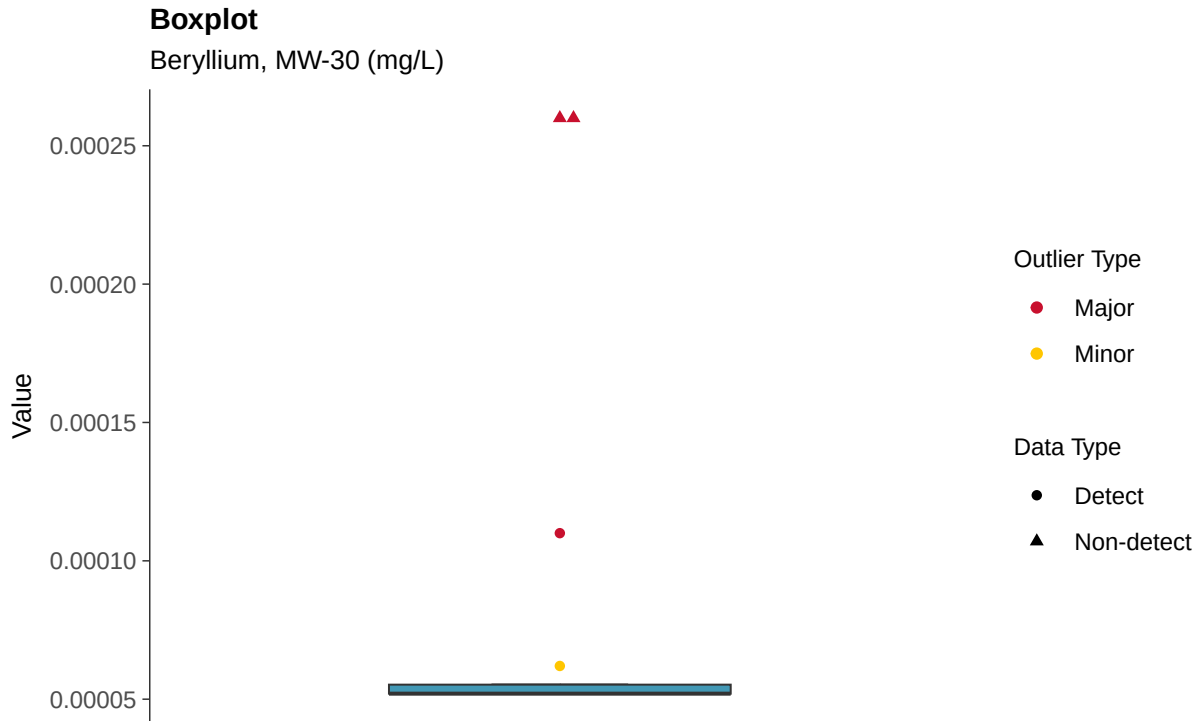




Appendix IV: Beryllium, MW-30

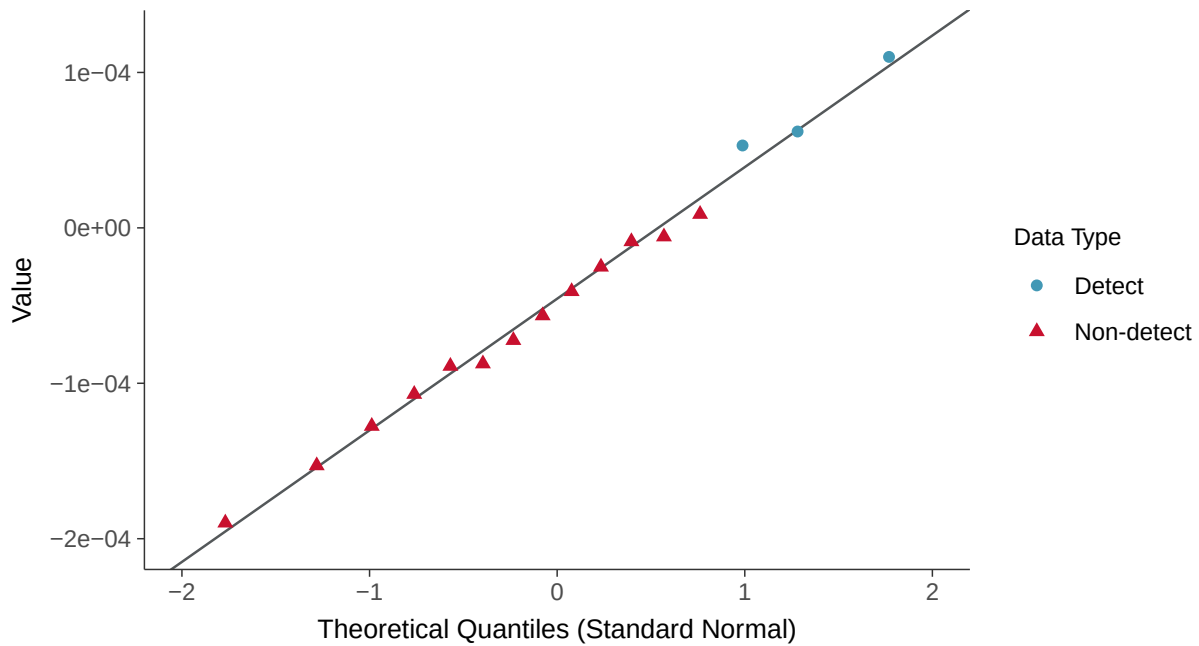
ID: 40_1_4_104





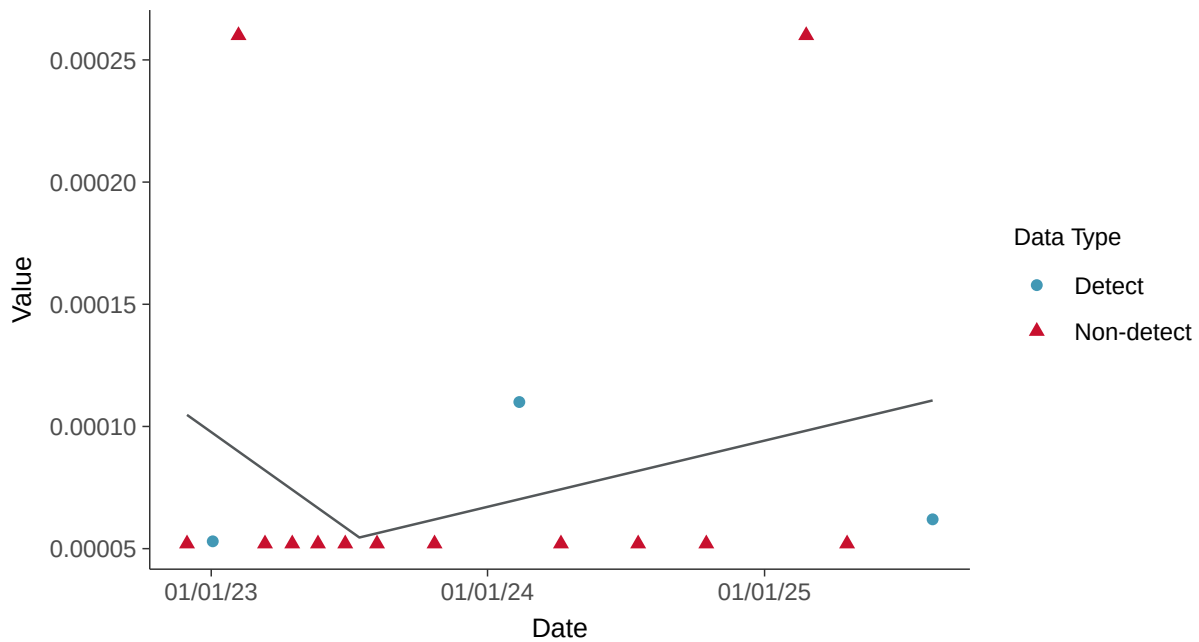
Normal Q-Q plot using ROS Imputed Estimates

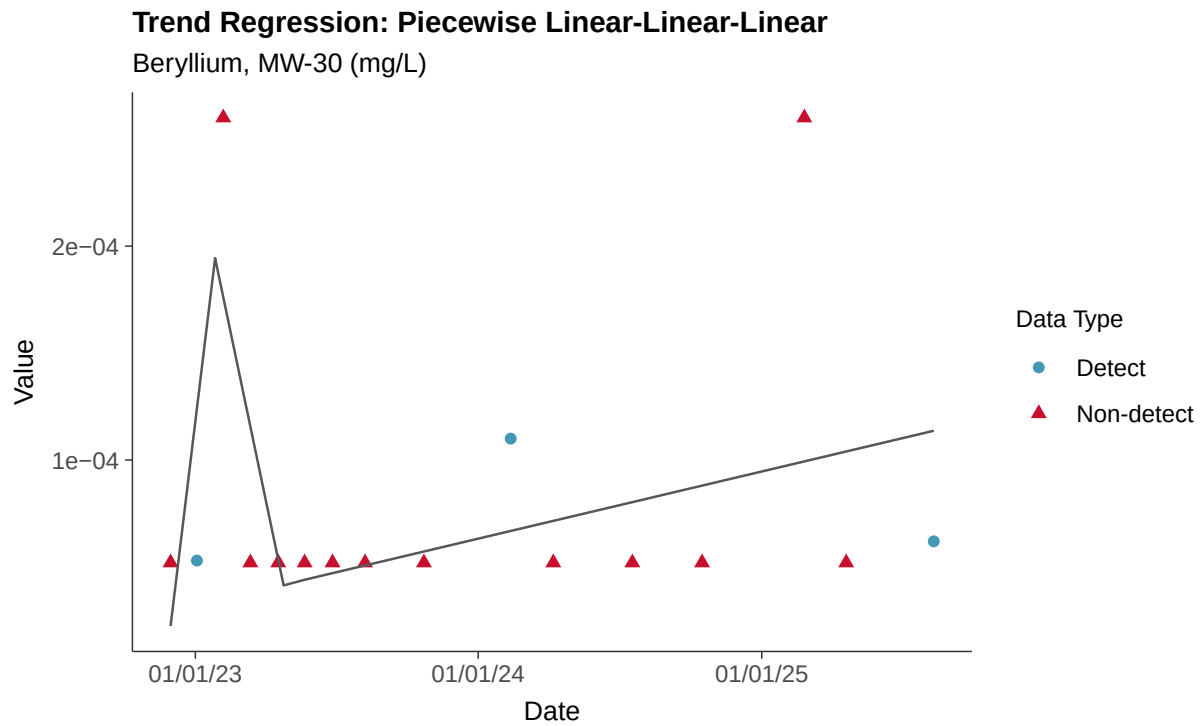
Beryllium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Beryllium, MW-30 (mg/L)



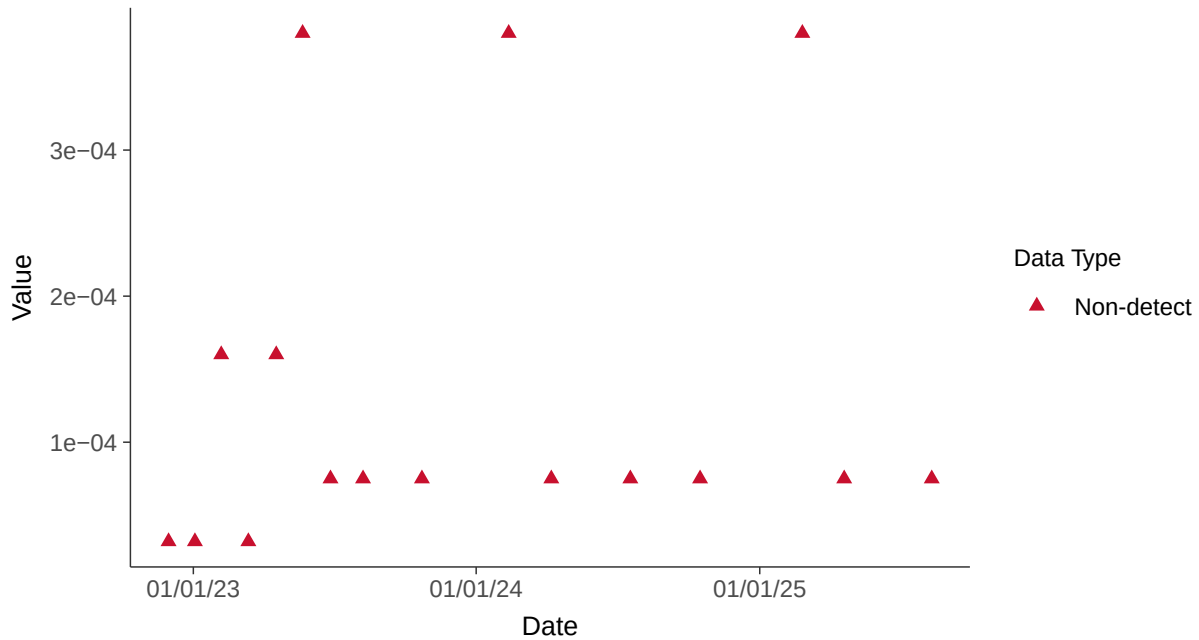


Appendix IV: Cadmium, MW-30

ID: 40_1_4_106

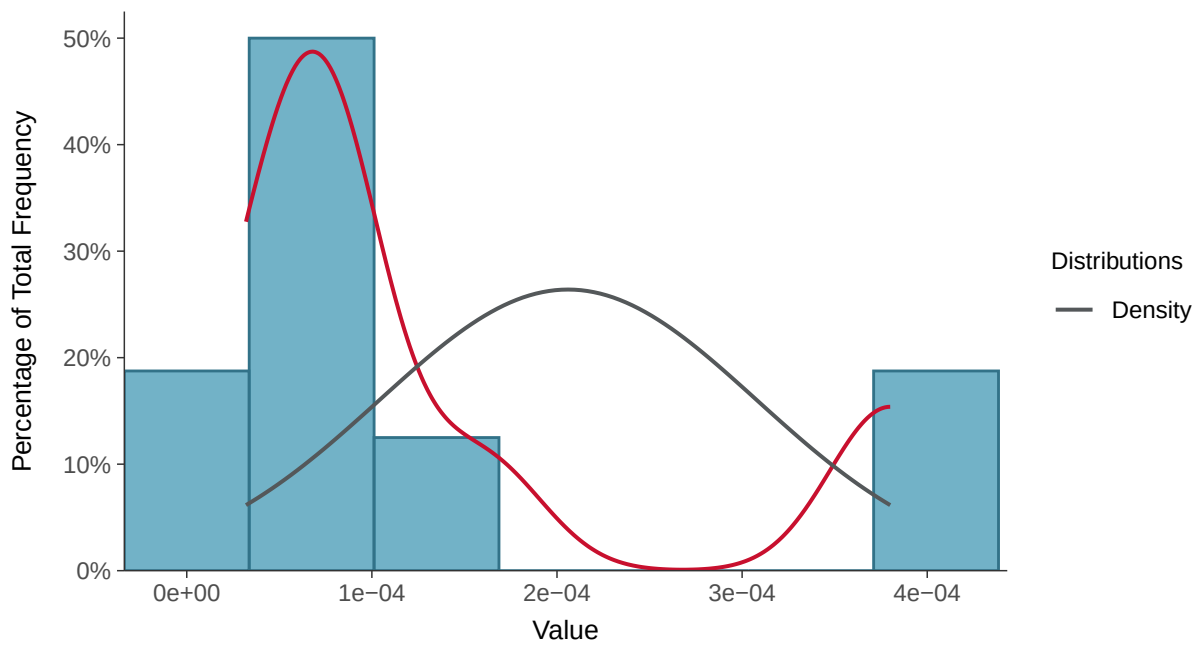
Scatter Plot

Cadmium, MW-30 (mg/L)



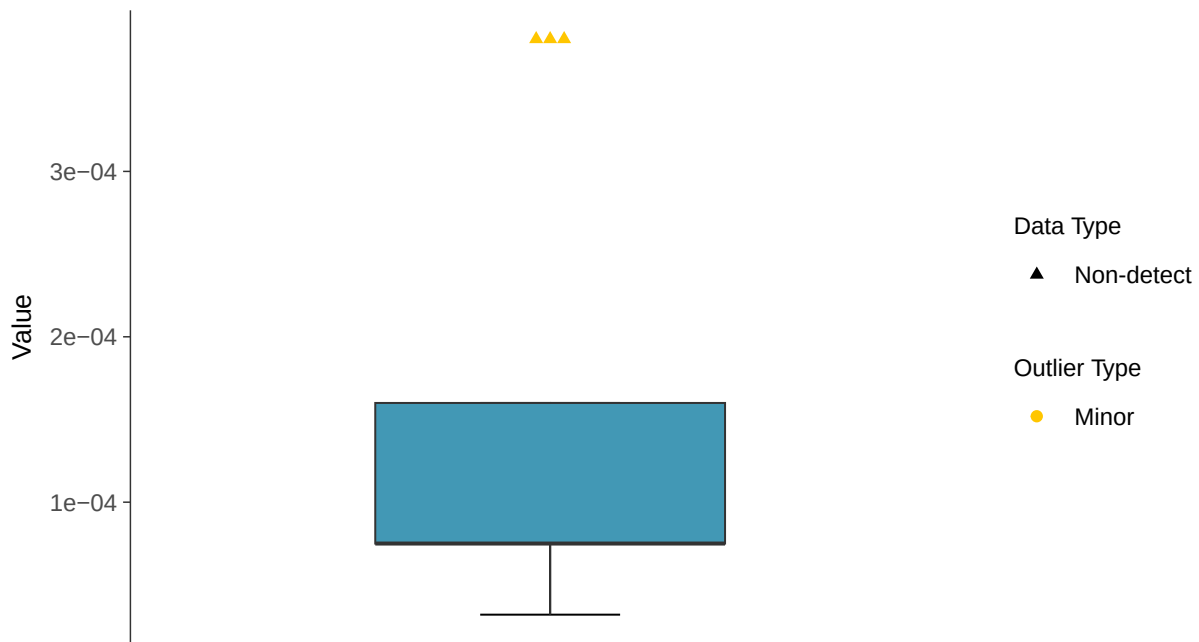
Histogram

Cadmium, MW-30 (mg/L)



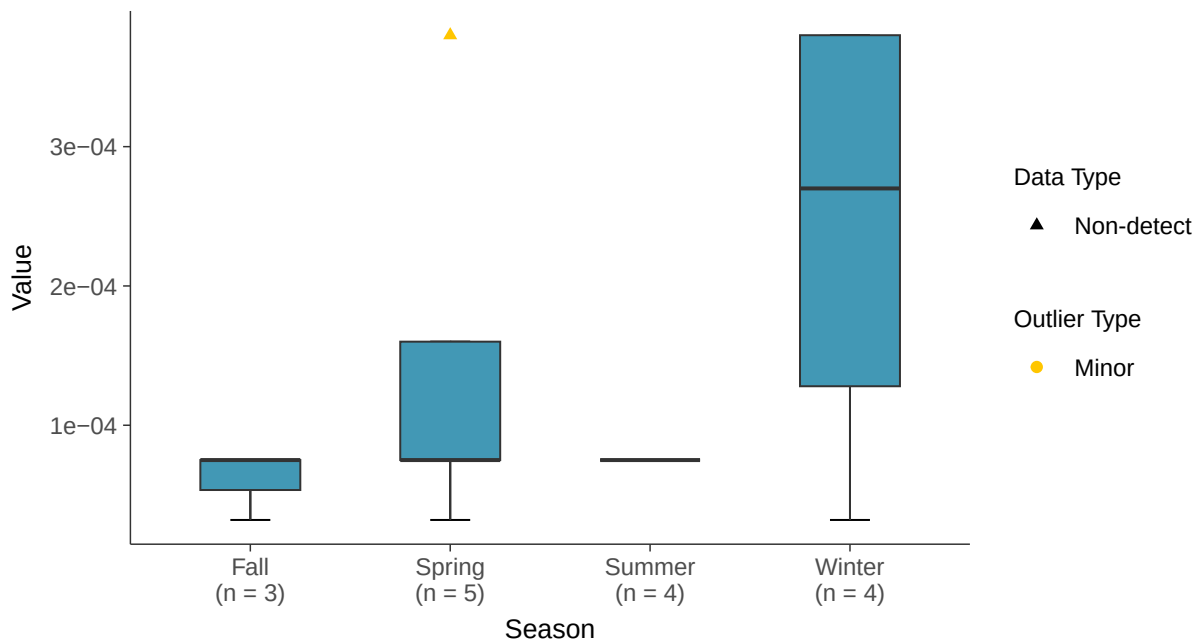
Boxplot

Cadmium, MW-30 (mg/L)



Boxplot by Season

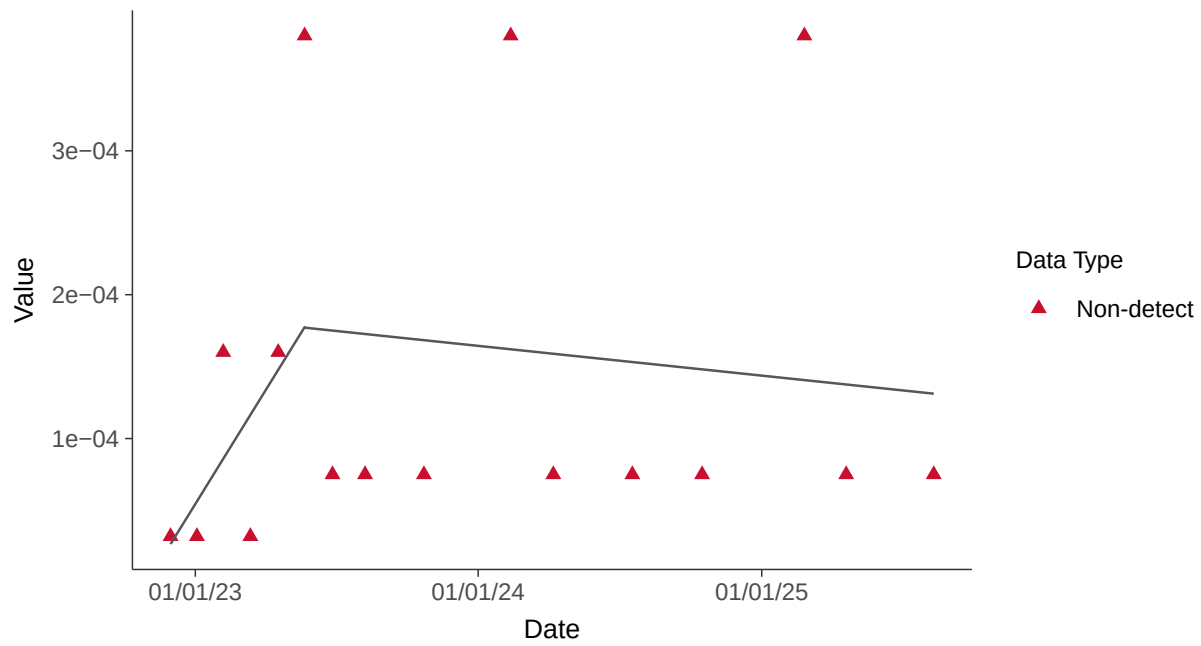
Cadmium, MW-30 (mg/L)





Trend Regression: Piecewise Linear-Linear

Cadmium, MW-30 (mg/L)

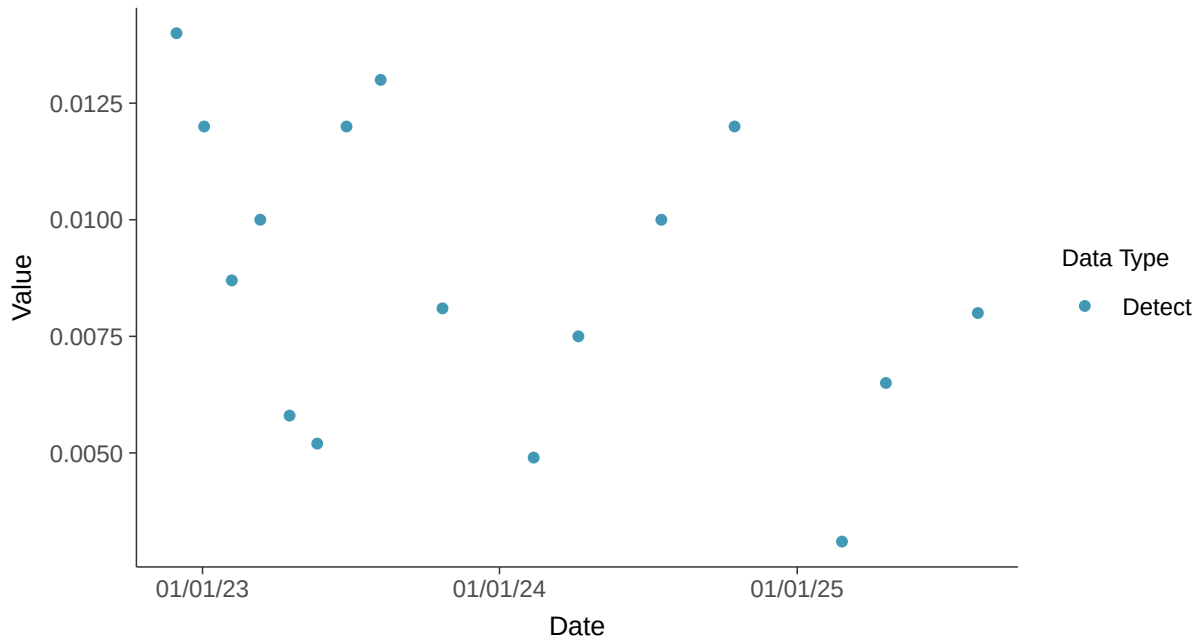


Appendix IV: Chromium, Total, MW-30

ID: 40_1_4_109

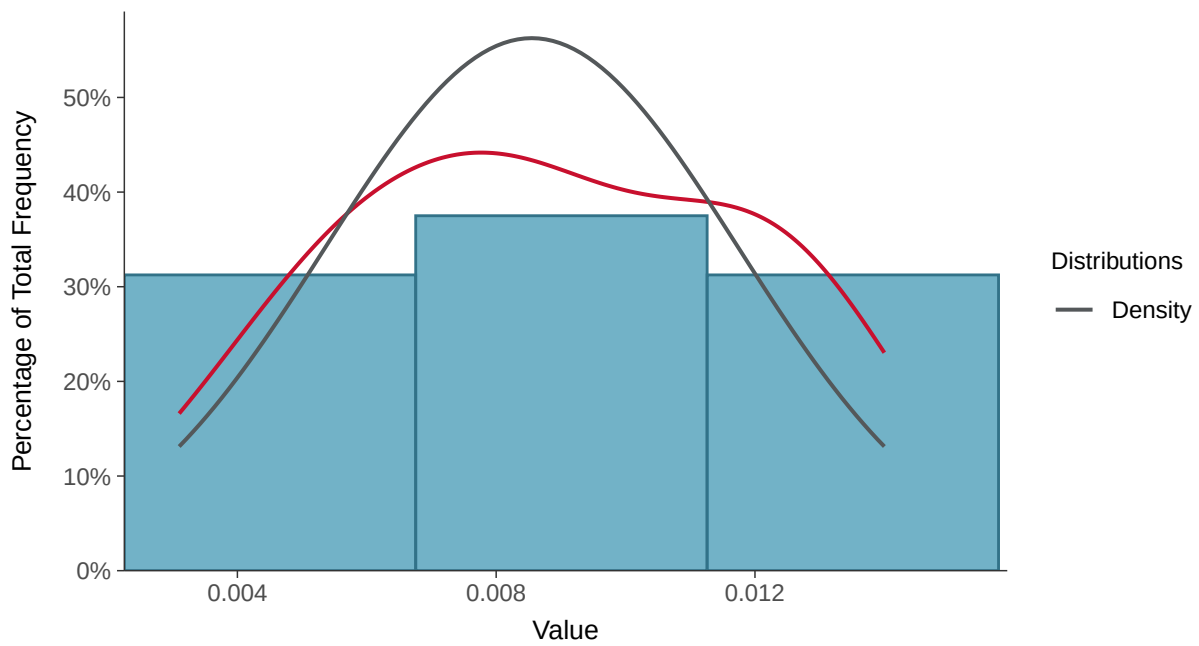
Scatter Plot

Chromium, Total, MW-30 (mg/L)



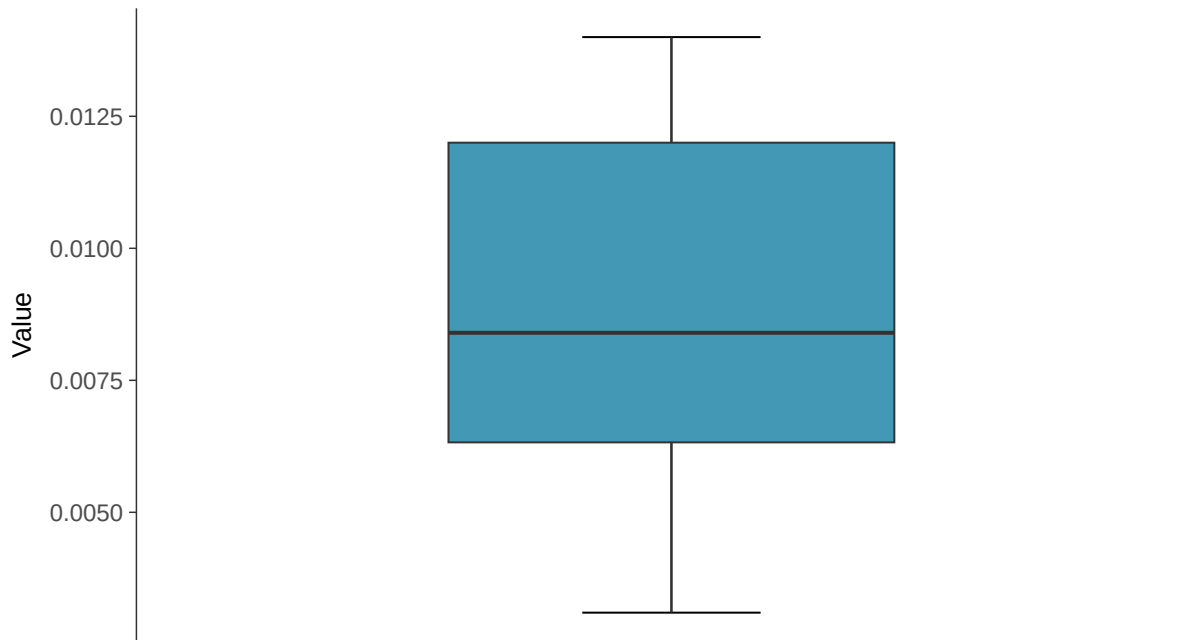
Histogram

Chromium, Total, MW-30 (mg/L)



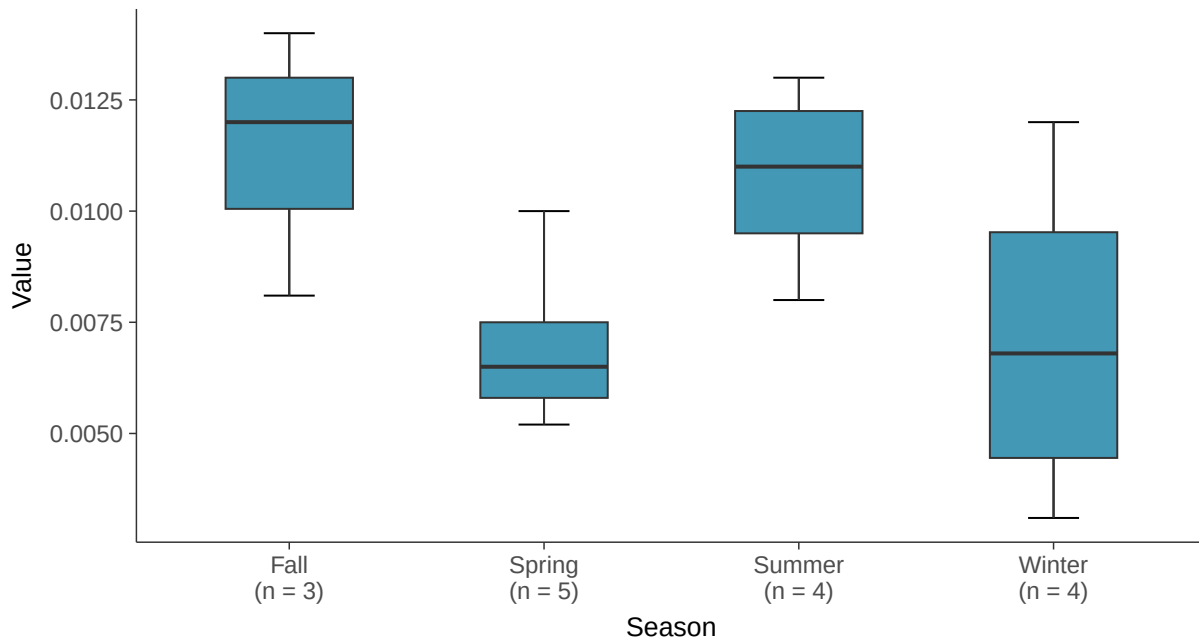
Boxplot

Chromium, Total, MW-30 (mg/L)



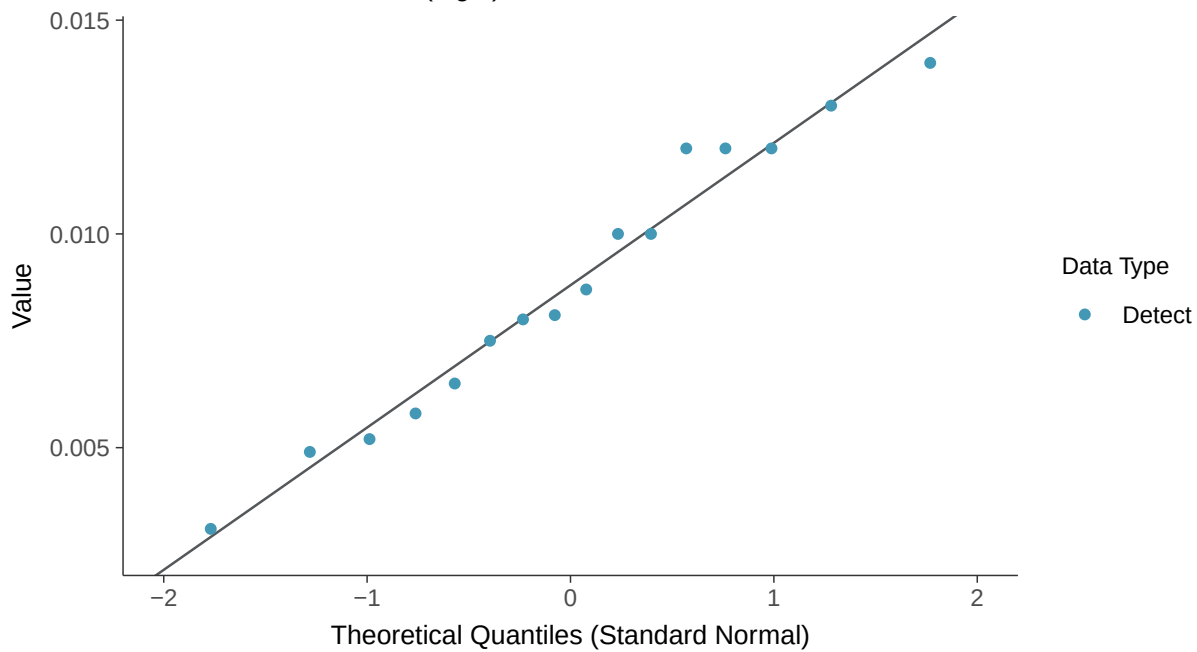
Boxplot by Season

Chromium, Total, MW-30 (mg/L)



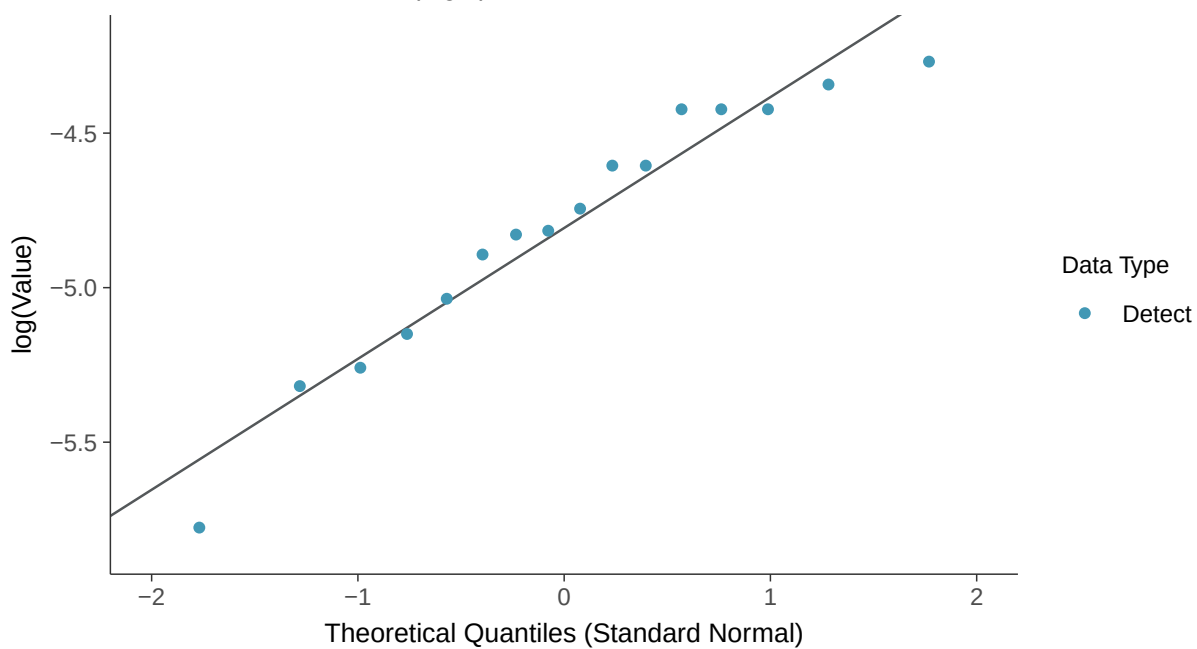
Normal Q-Q plot

Chromium, Total, MW-30 (mg/L)

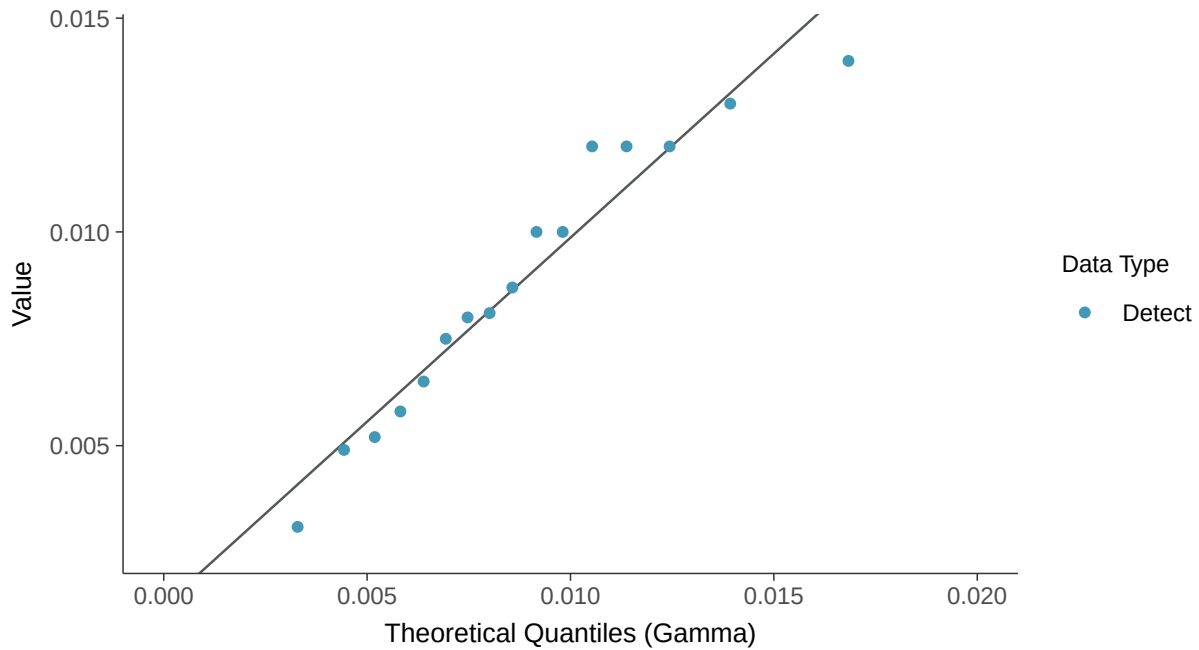


Lognormal Q-Q plot

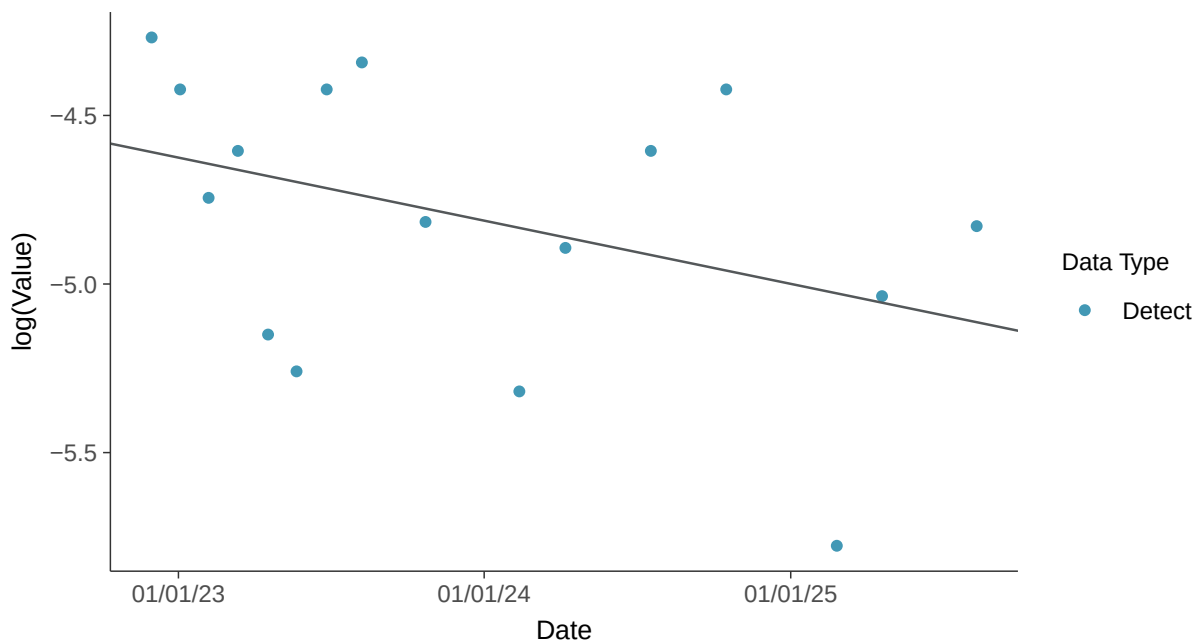
Chromium, Total, MW-30 (mg/L)



Chromium, Total, MW-30 (mg/L)

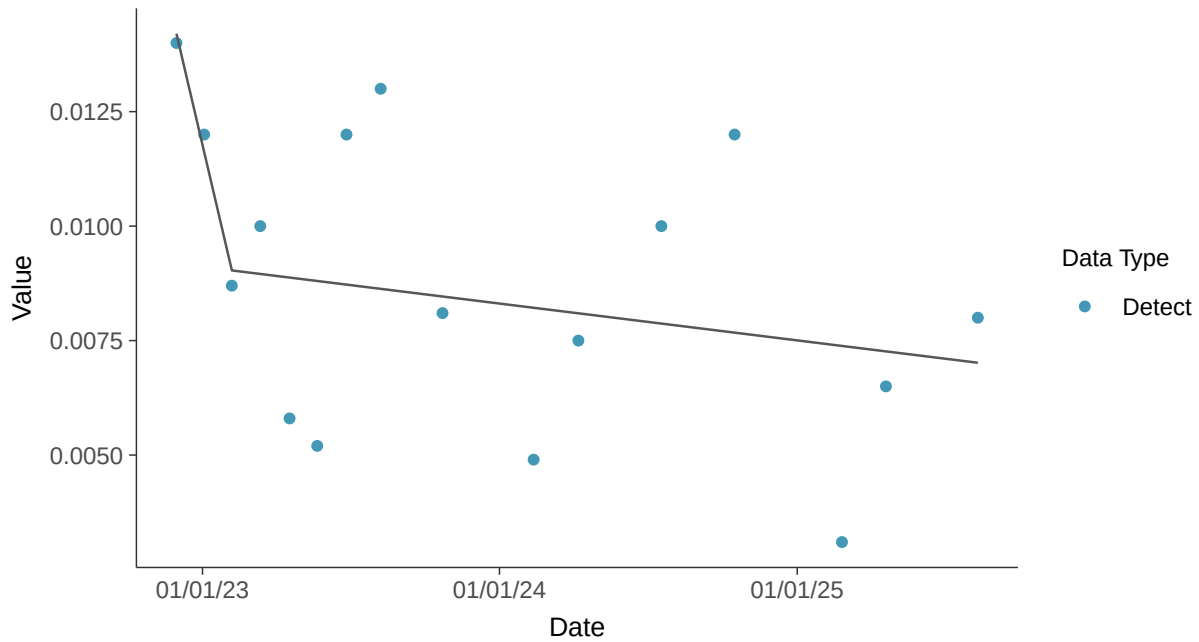


Chromium, Total, MW-30 (mg/L)



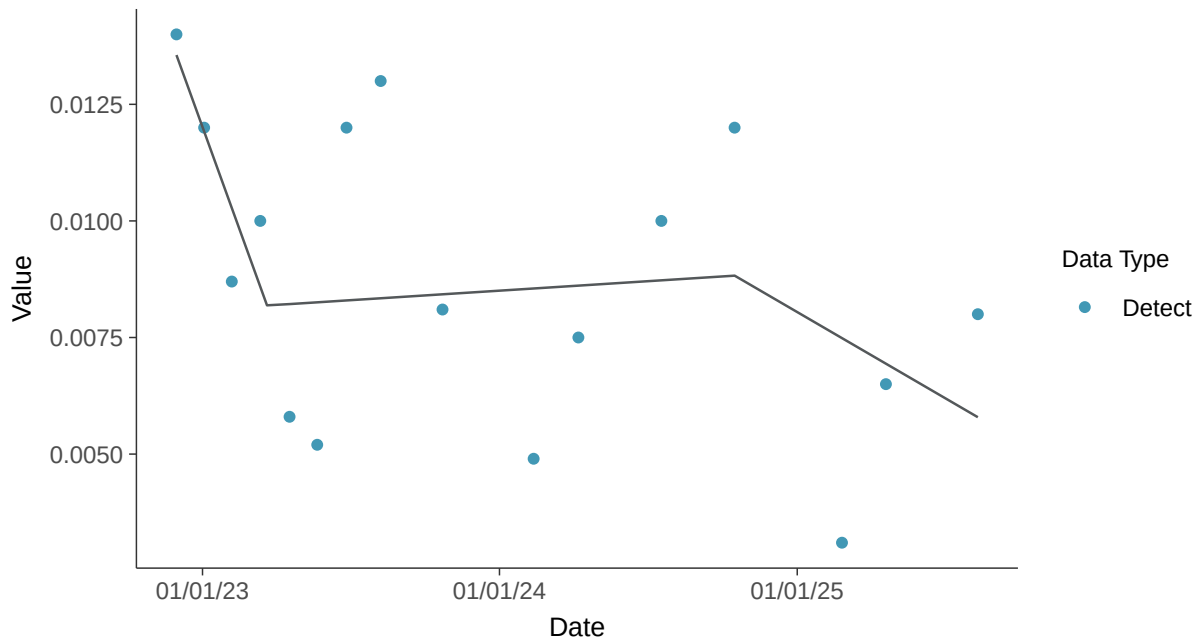
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-30 (mg/L)



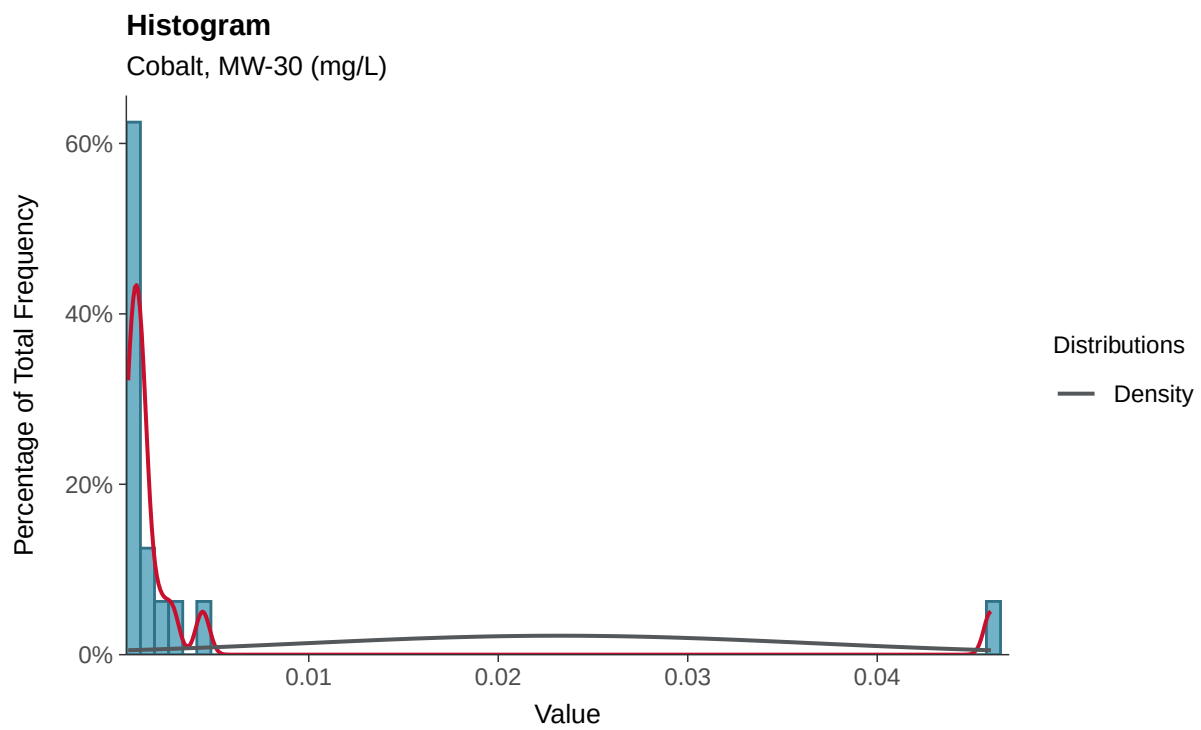
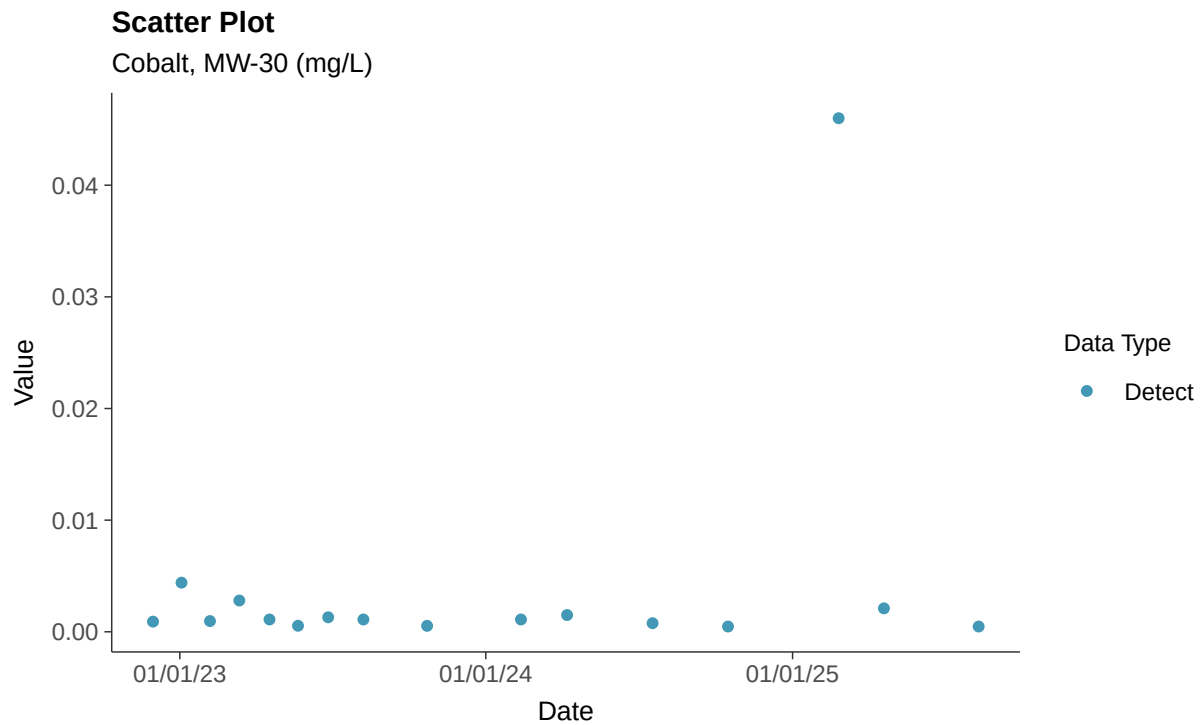
Trend Regression: Piecewise Linear-Linear-Linear

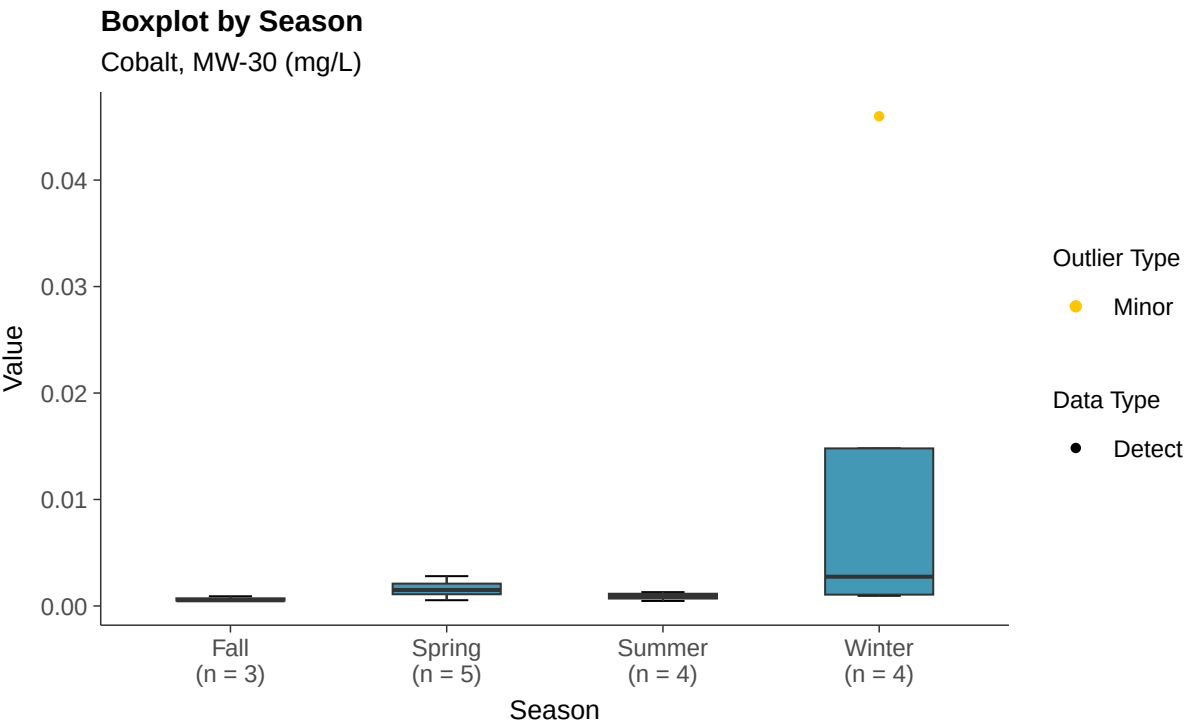
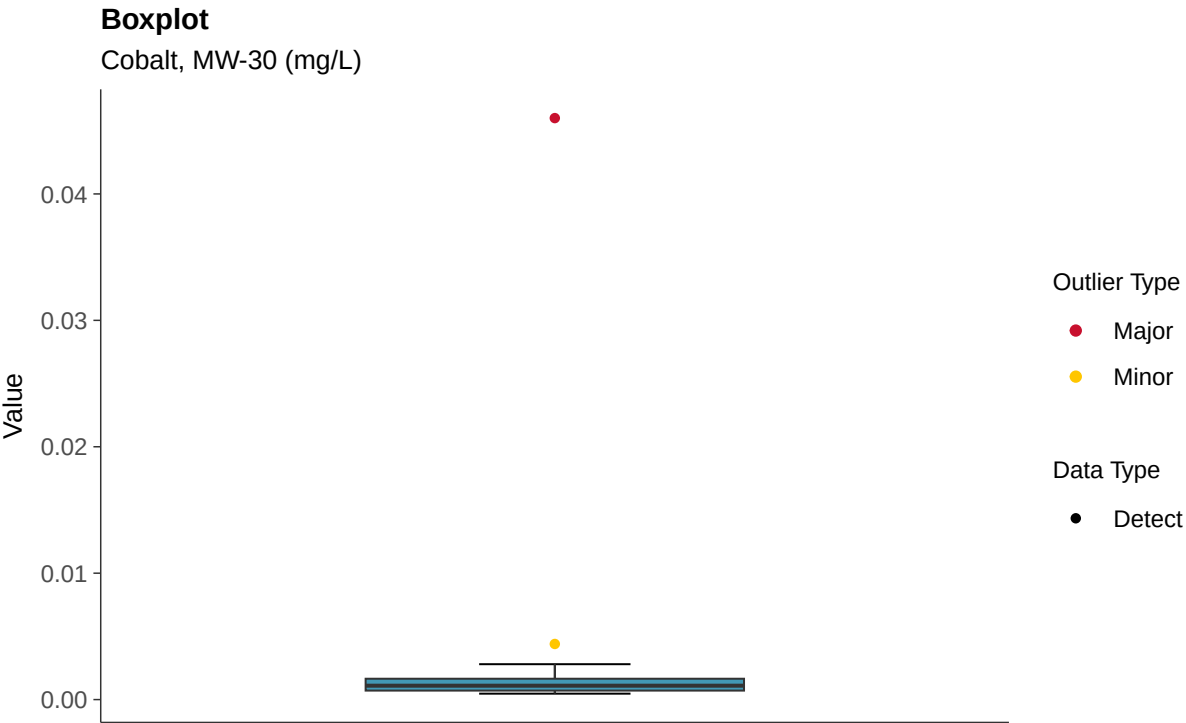
Chromium, Total, MW-30 (mg/L)

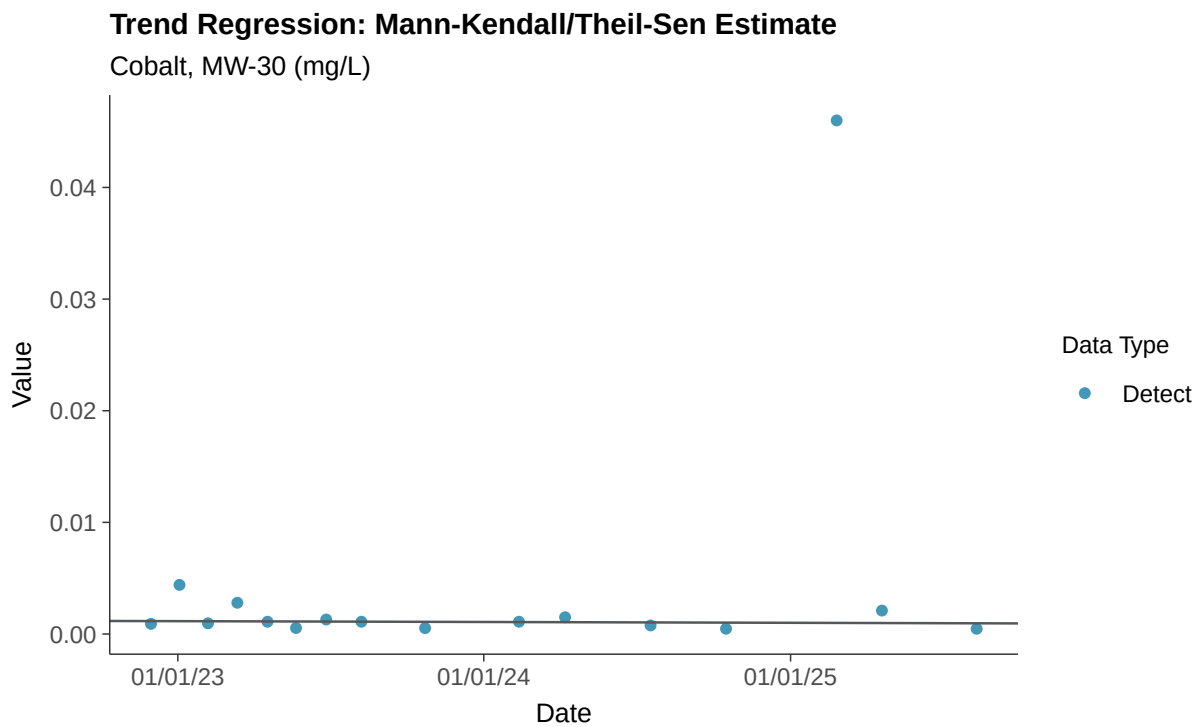
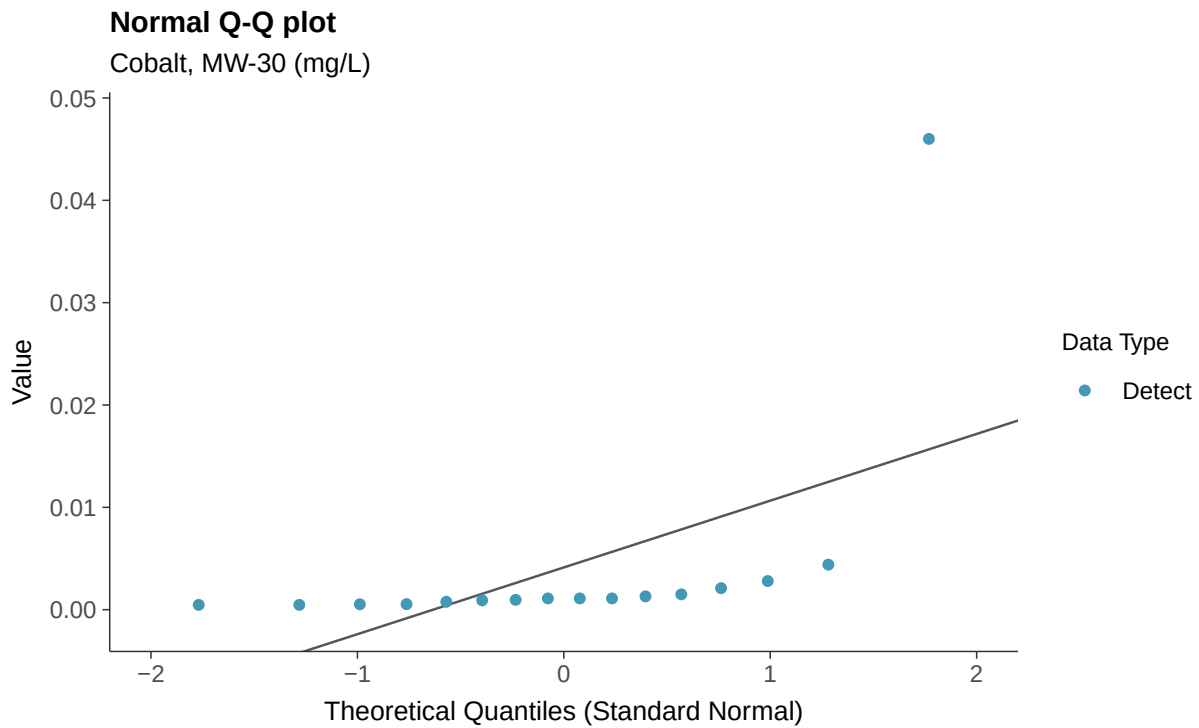


Appendix IV: Cobalt, MW-30

ID: 40_1_4_110





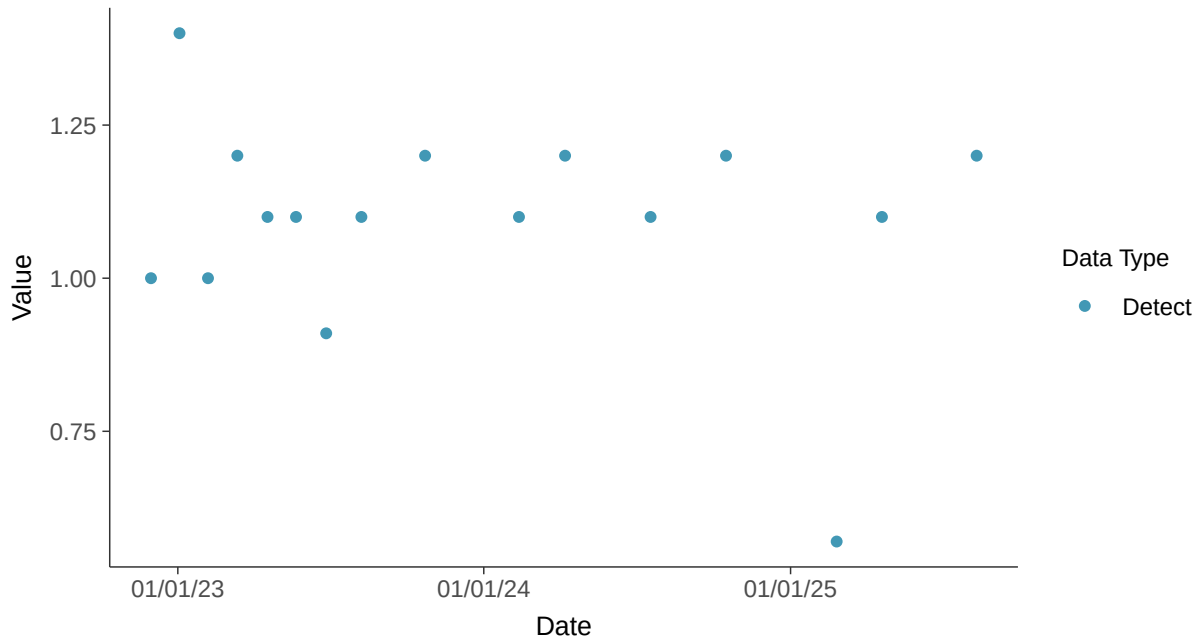


Appendix IV: Fluoride (App IV), MW-30

ID: 40_1_4_113

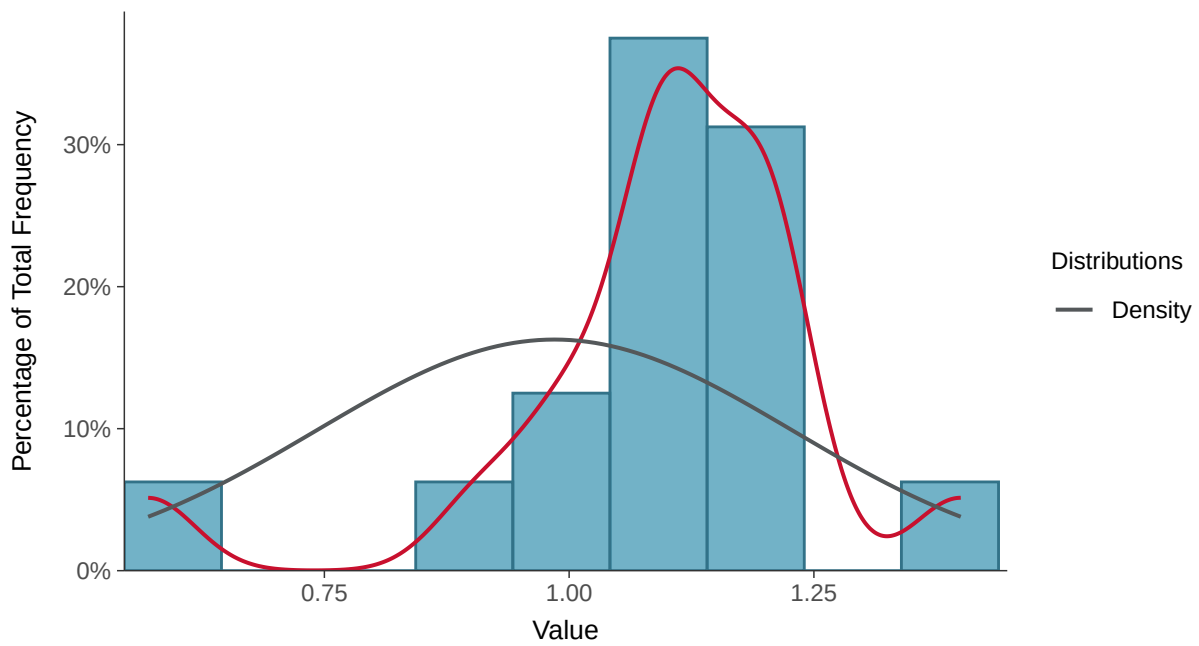
Scatter Plot

Fluoride (App IV), MW-30 (mg/L)



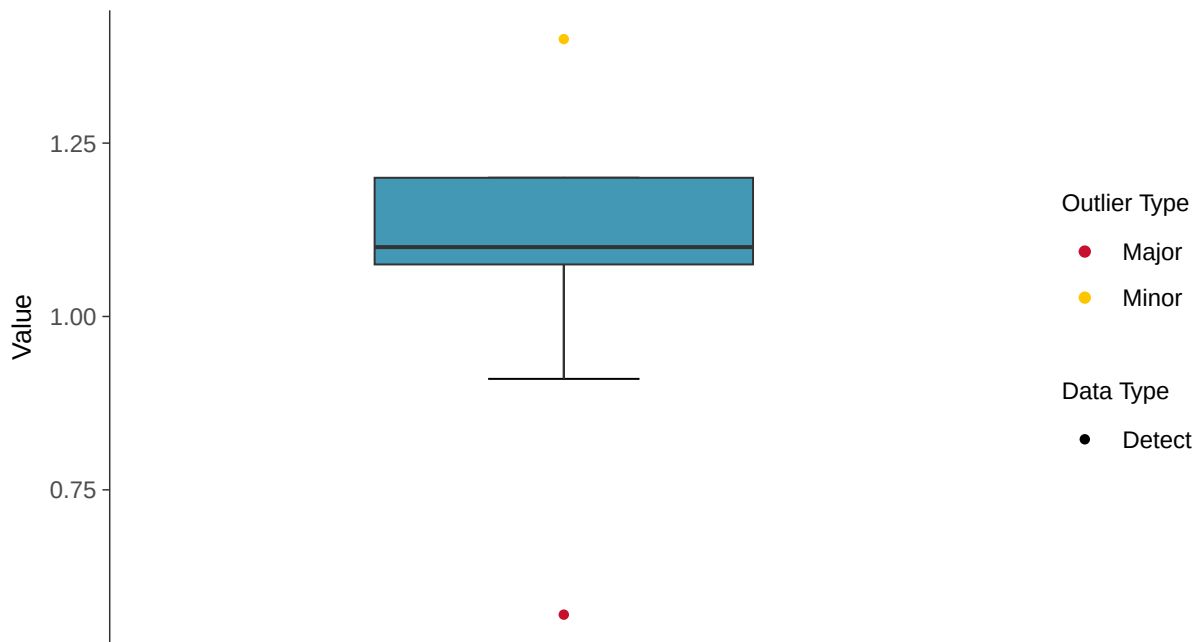
Histogram

Fluoride (App IV), MW-30 (mg/L)



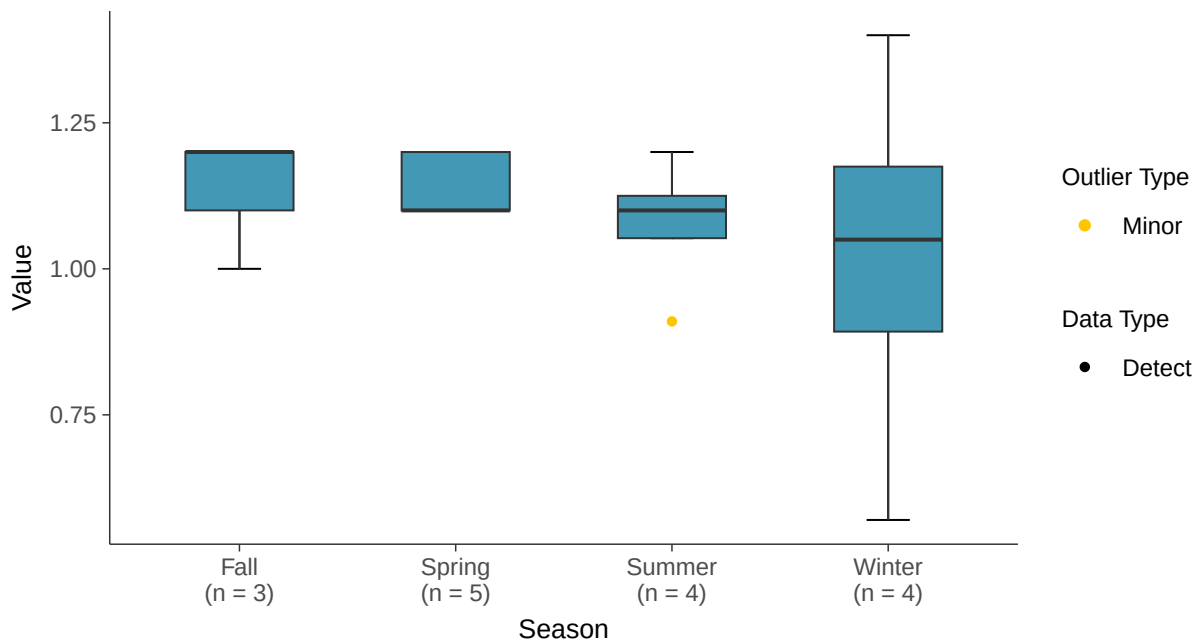
Boxplot

Fluoride (App IV), MW-30 (mg/L)



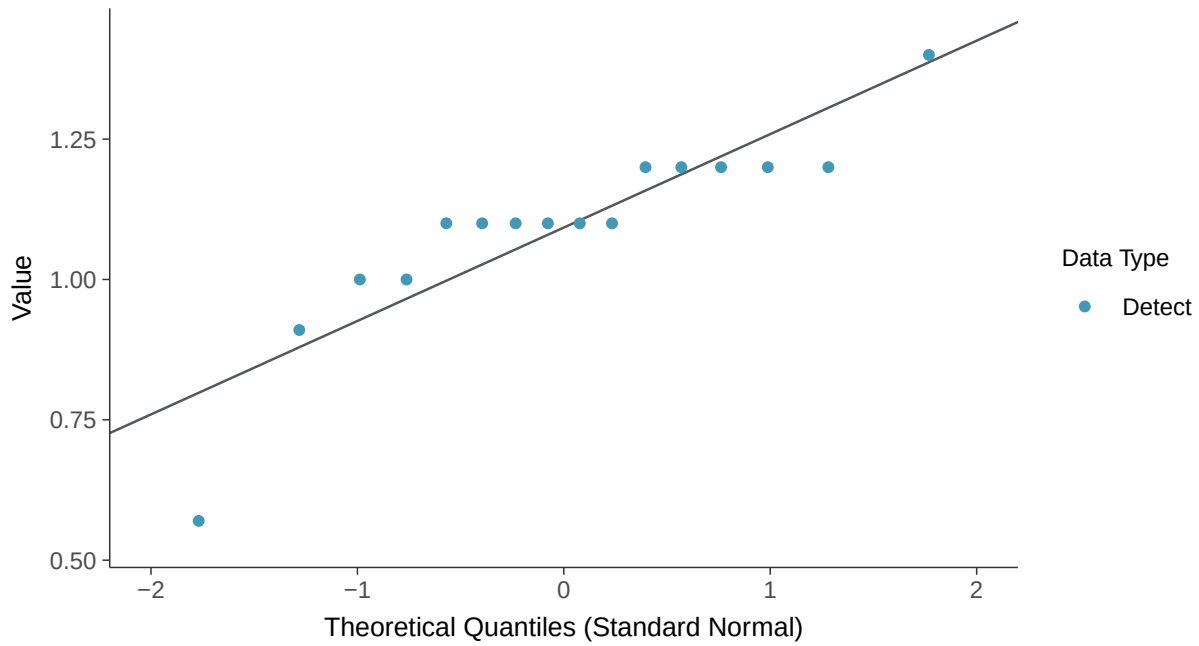
Boxplot by Season

Fluoride (App IV), MW-30 (mg/L)



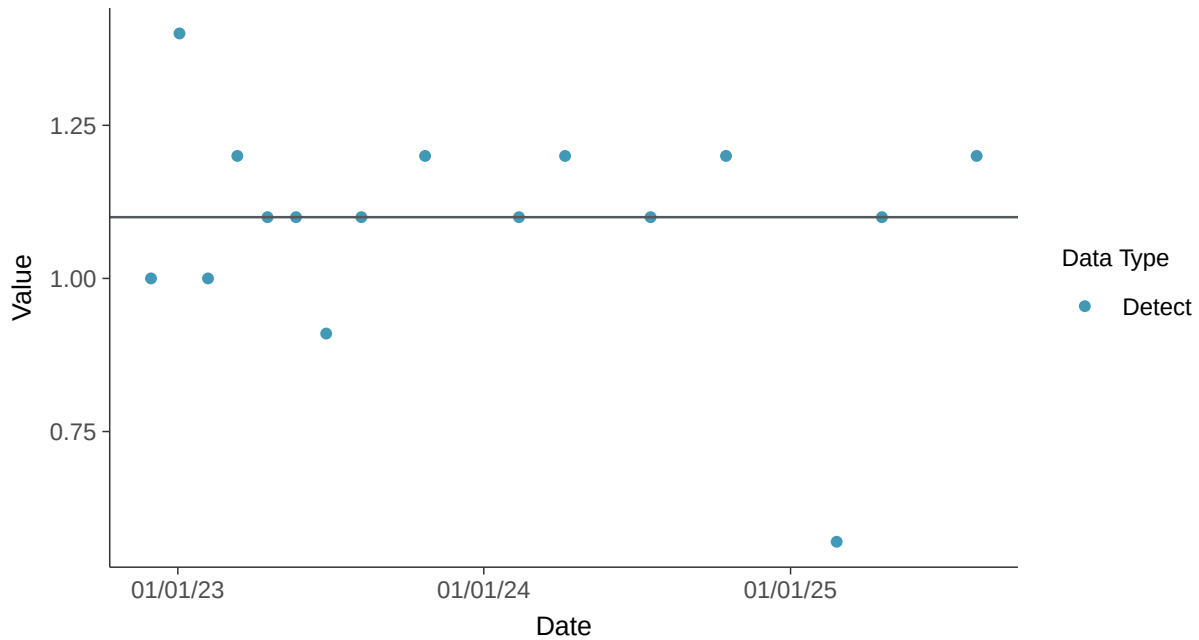
Normal Q-Q plot

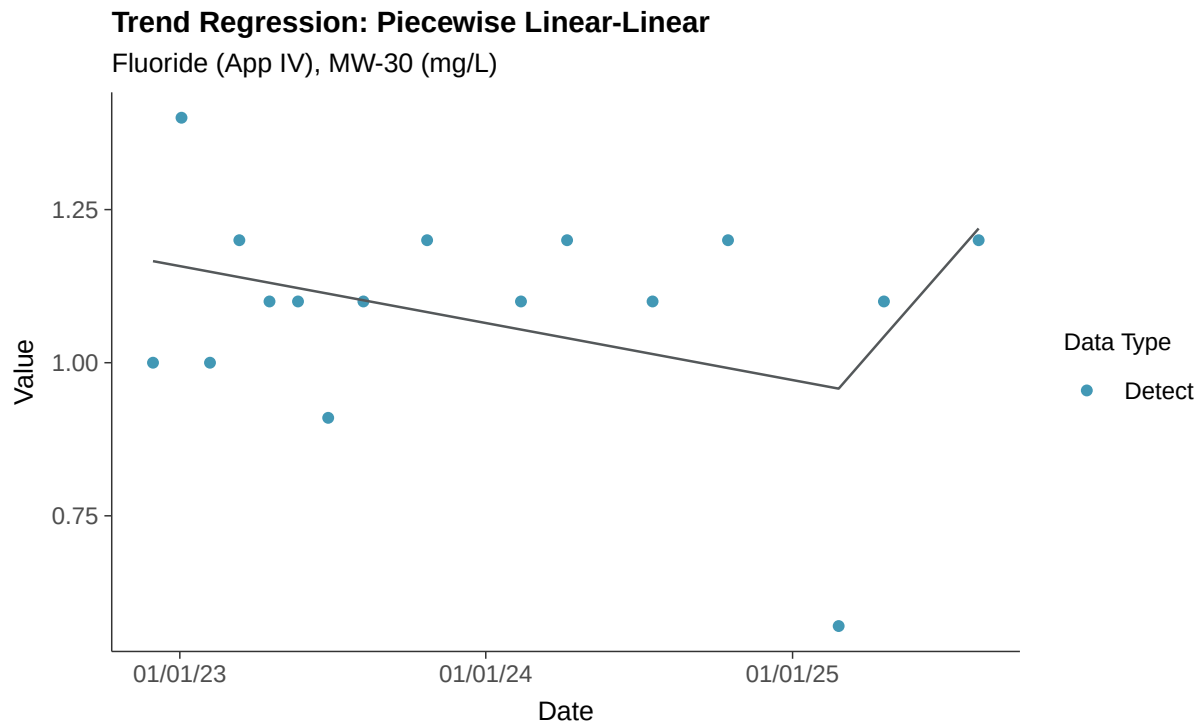
Fluoride (App IV), MW-30 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

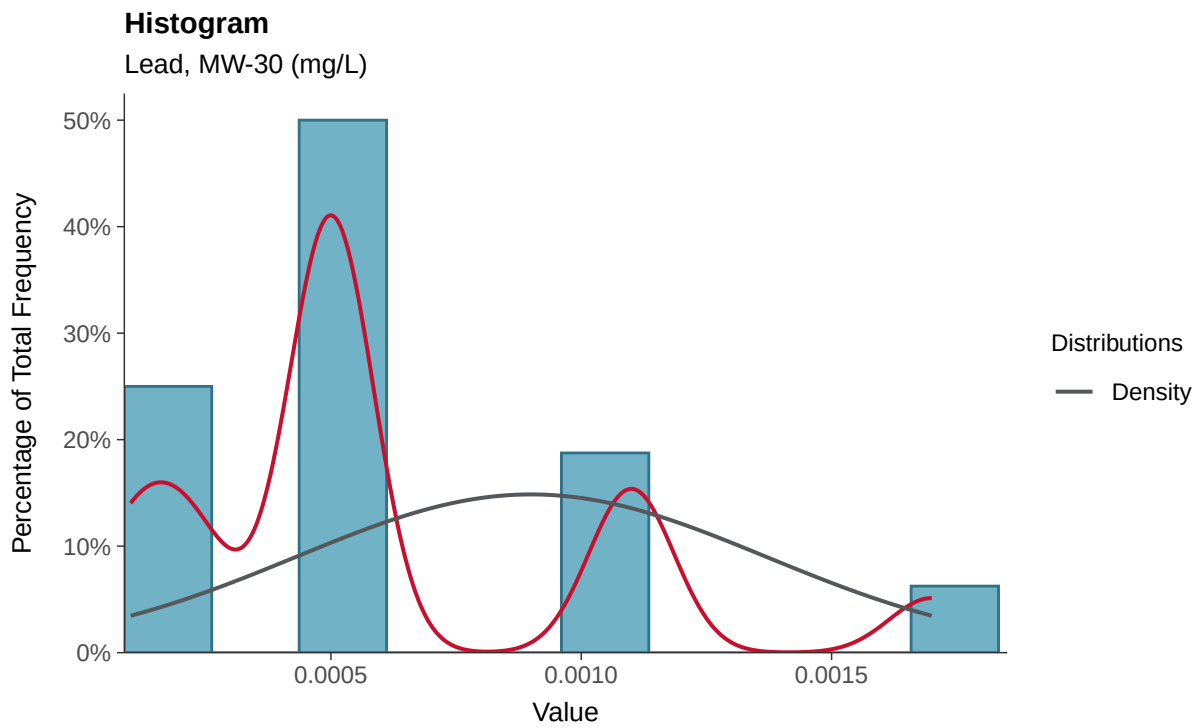
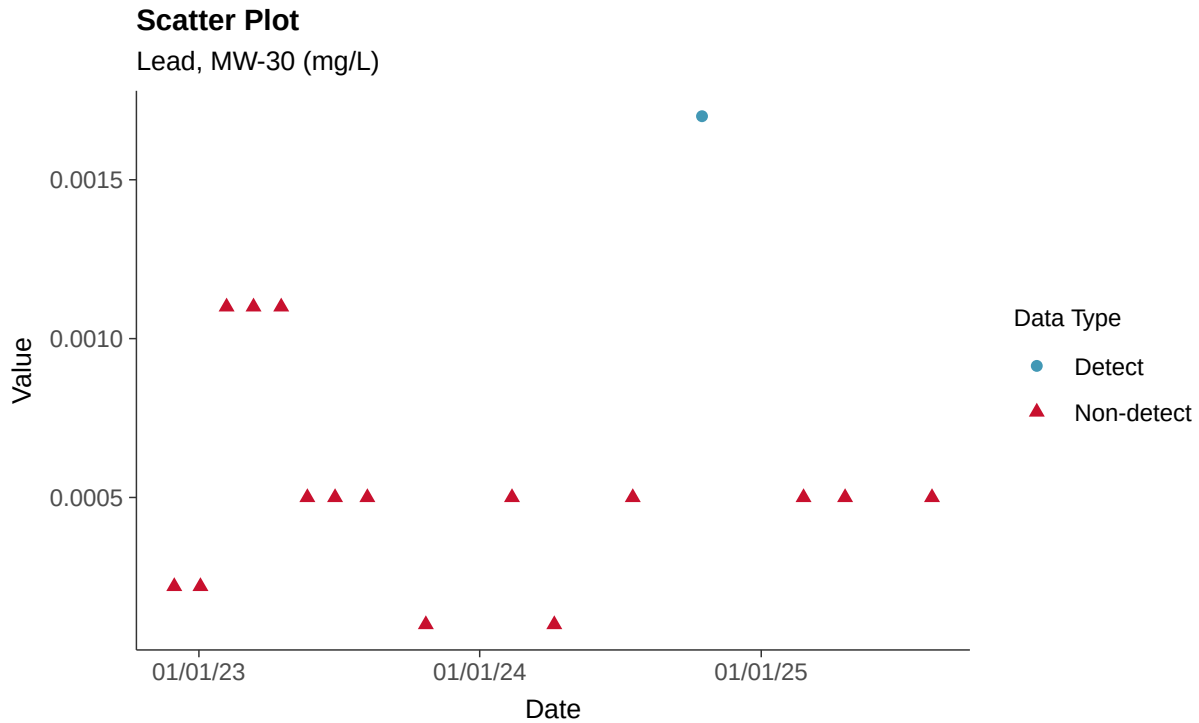
Fluoride (App IV), MW-30 (mg/L)





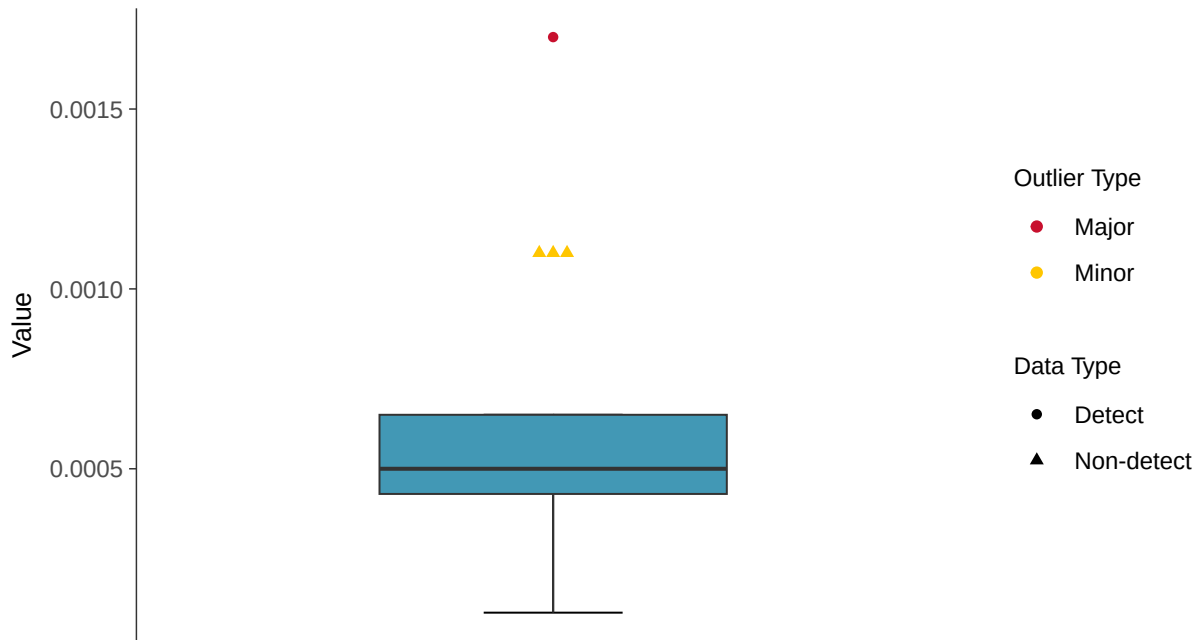
Appendix IV: Lead, MW-30

ID: 40_1_4_115



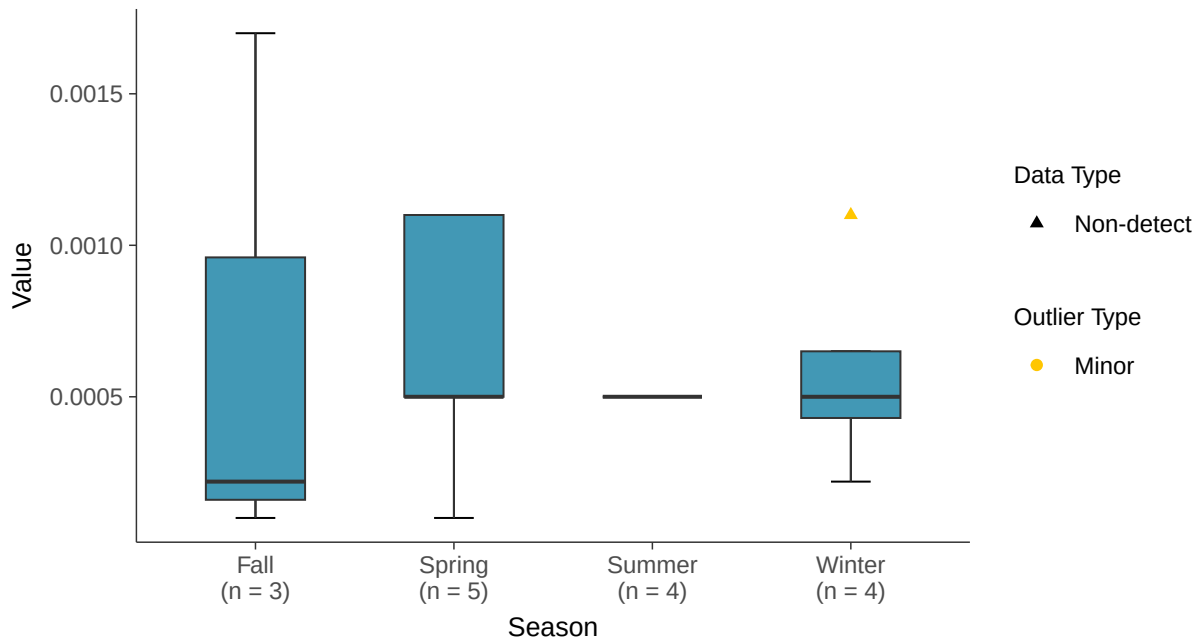
Boxplot

Lead, MW-30 (mg/L)



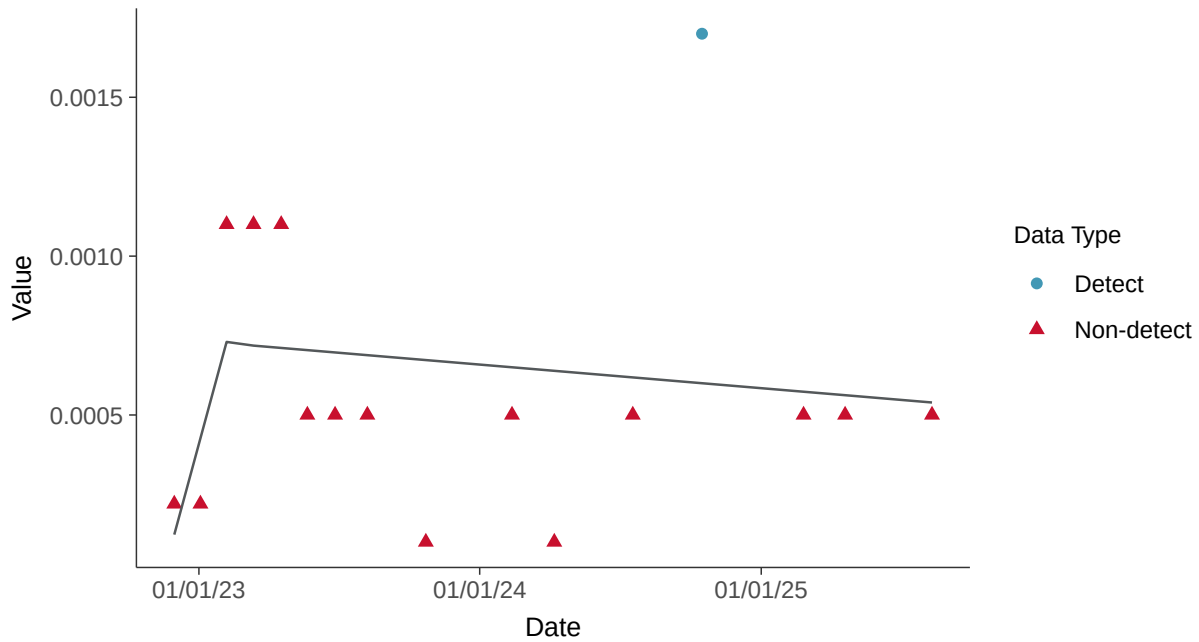
Boxplot by Season

Lead, MW-30 (mg/L)



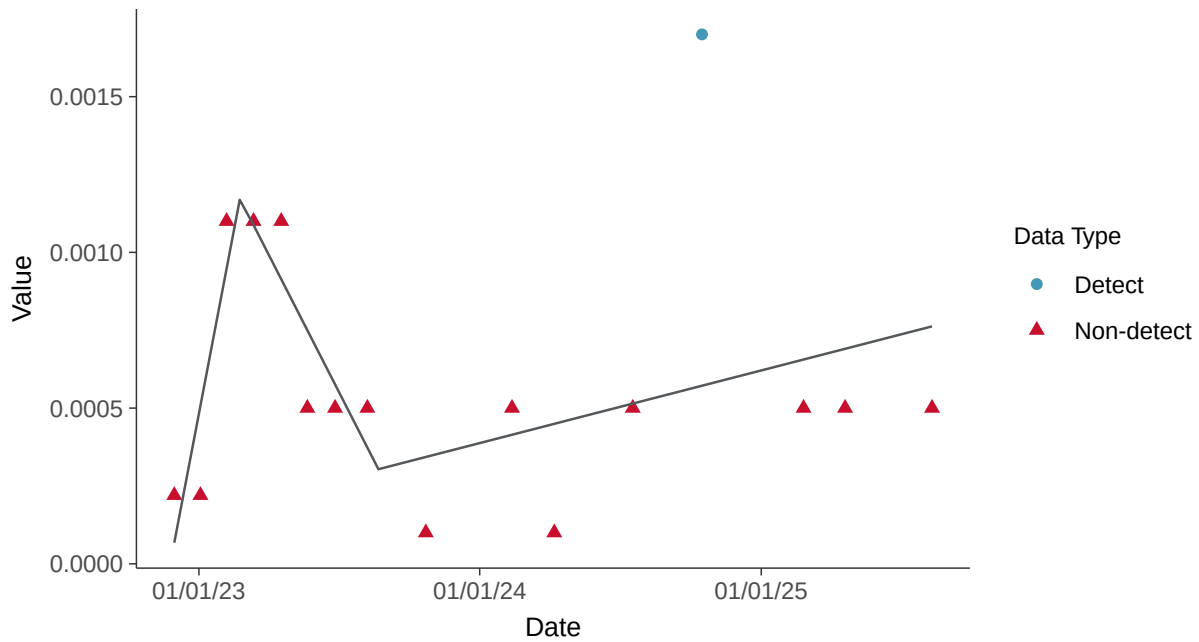
Trend Regression: Piecewise Linear-Linear

Lead, MW-30 (mg/L)



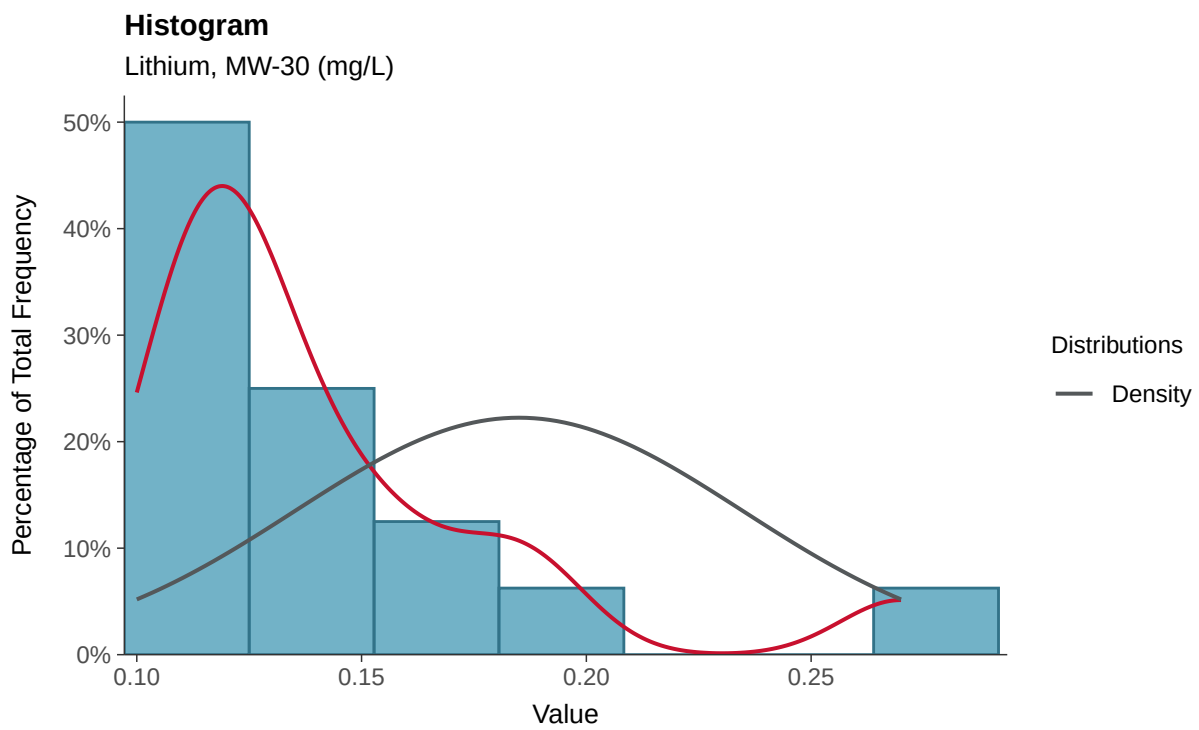
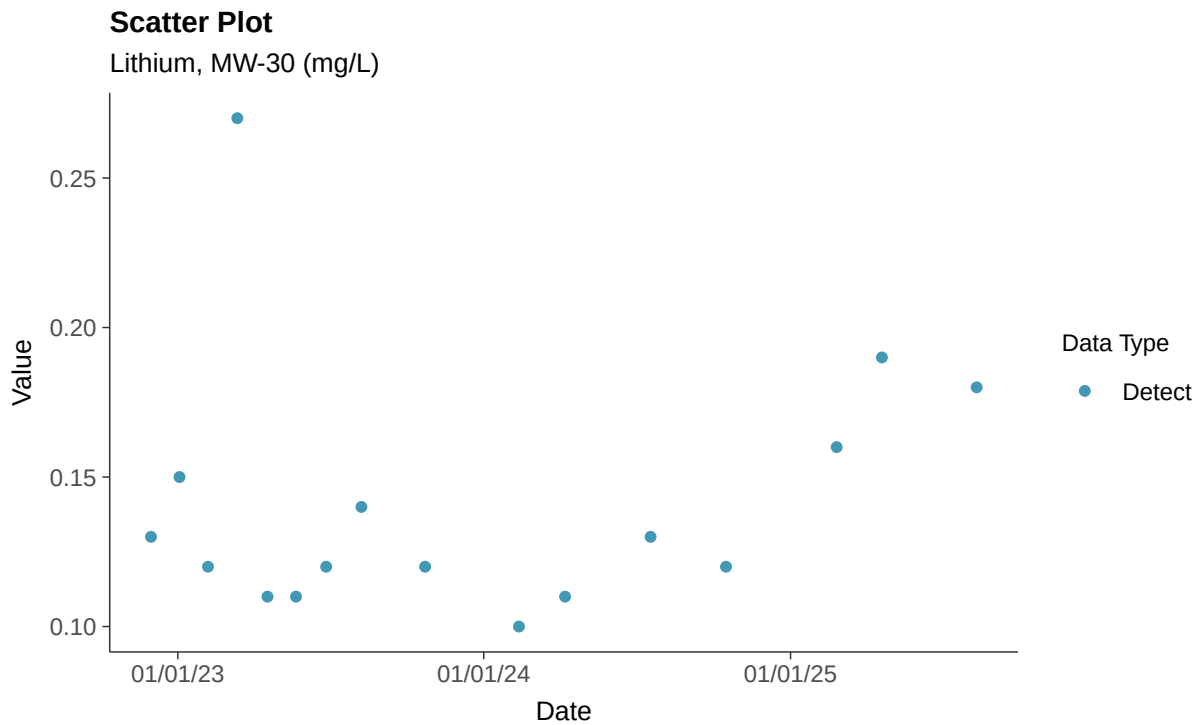
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-30 (mg/L)



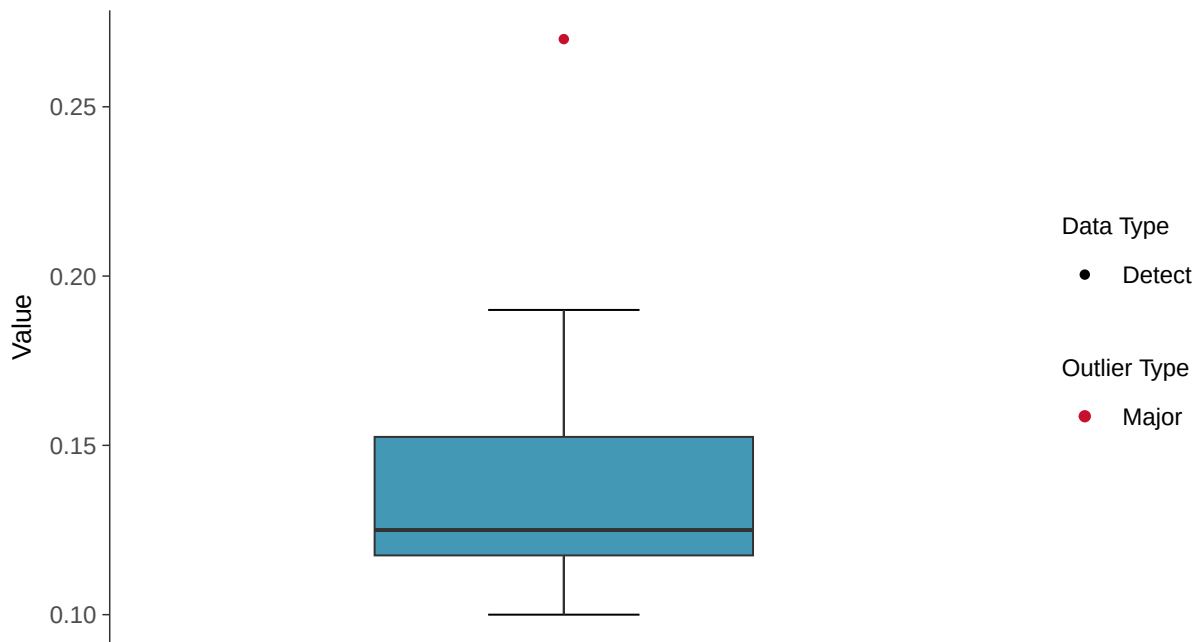
Appendix IV: Lithium, MW-30

ID: 40_1_4_116



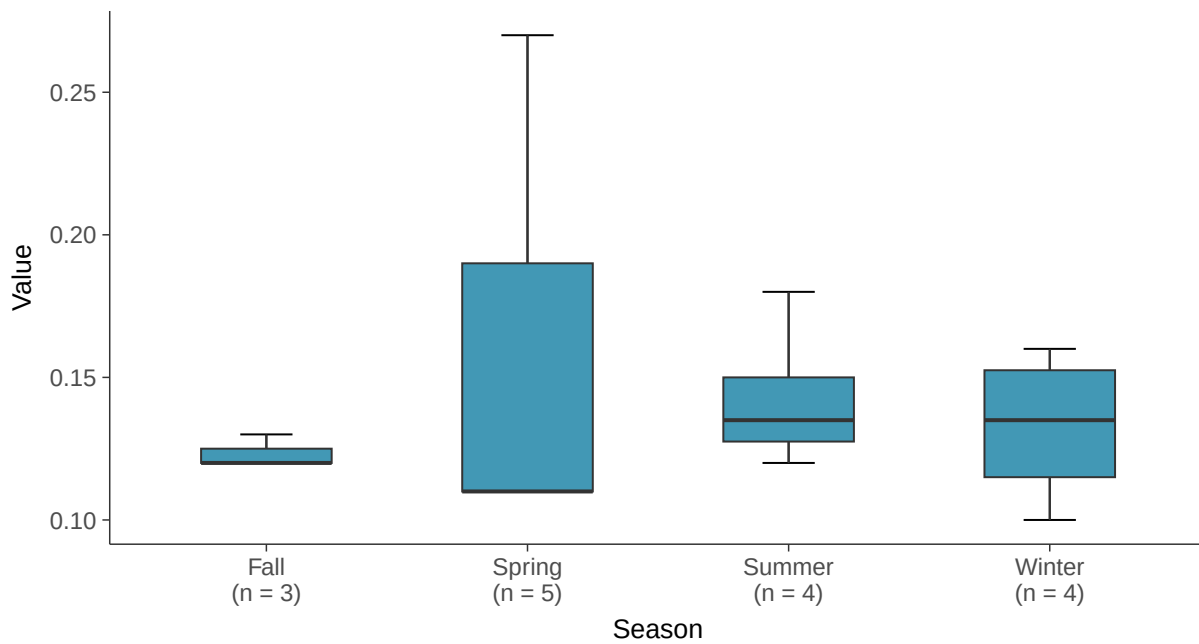
Boxplot

Lithium, MW-30 (mg/L)



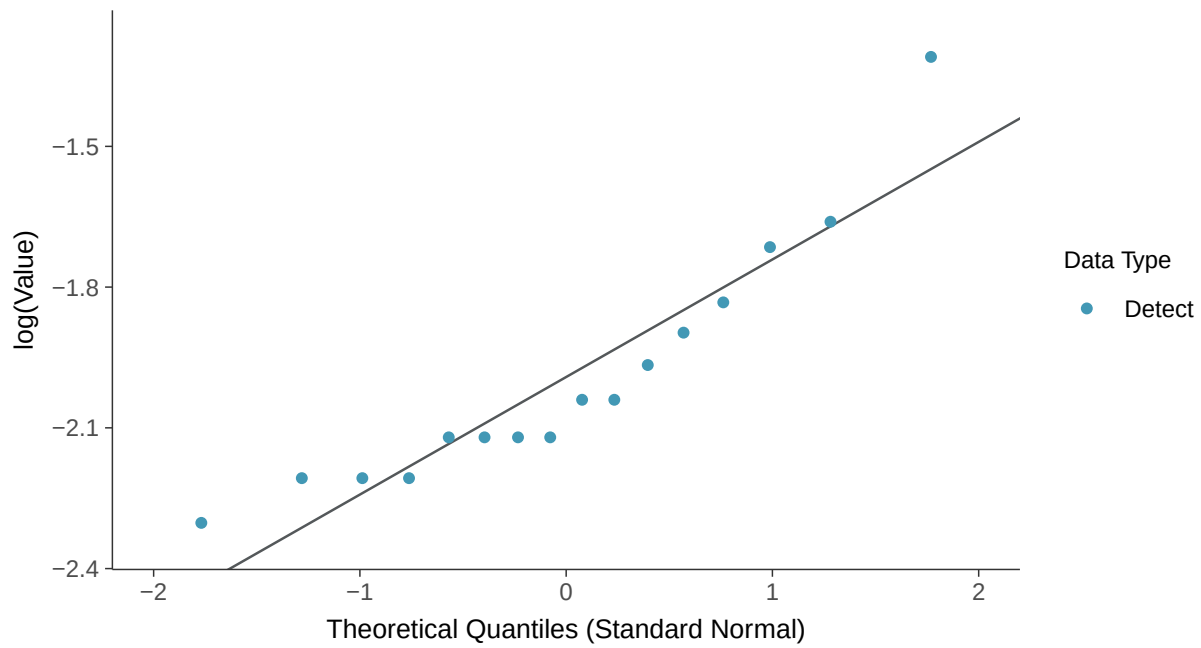
Boxplot by Season

Lithium, MW-30 (mg/L)



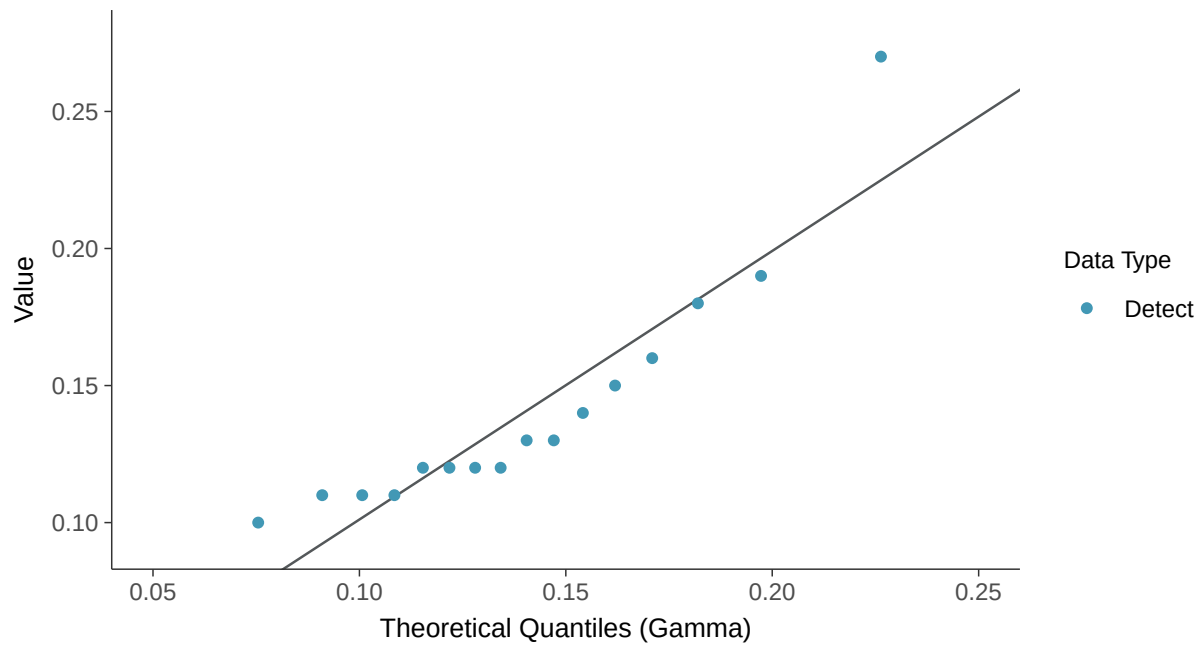
Lognormal Q-Q plot

Lithium, MW-30 (mg/L)



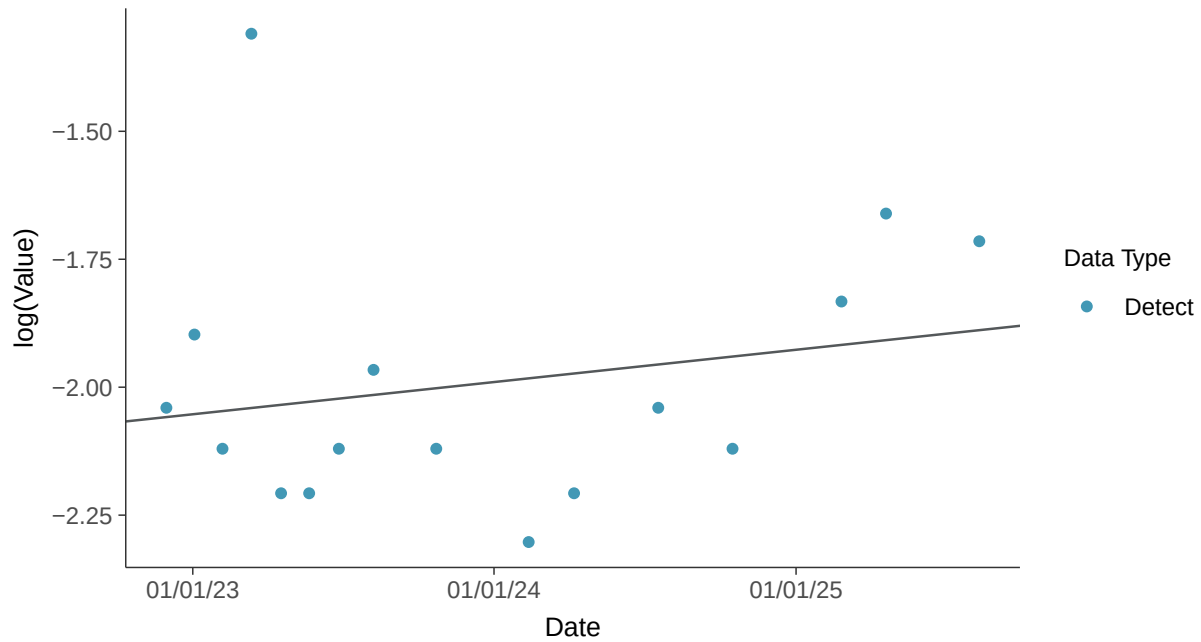
Gamma Q-Q plot

Lithium, MW-30 (mg/L)



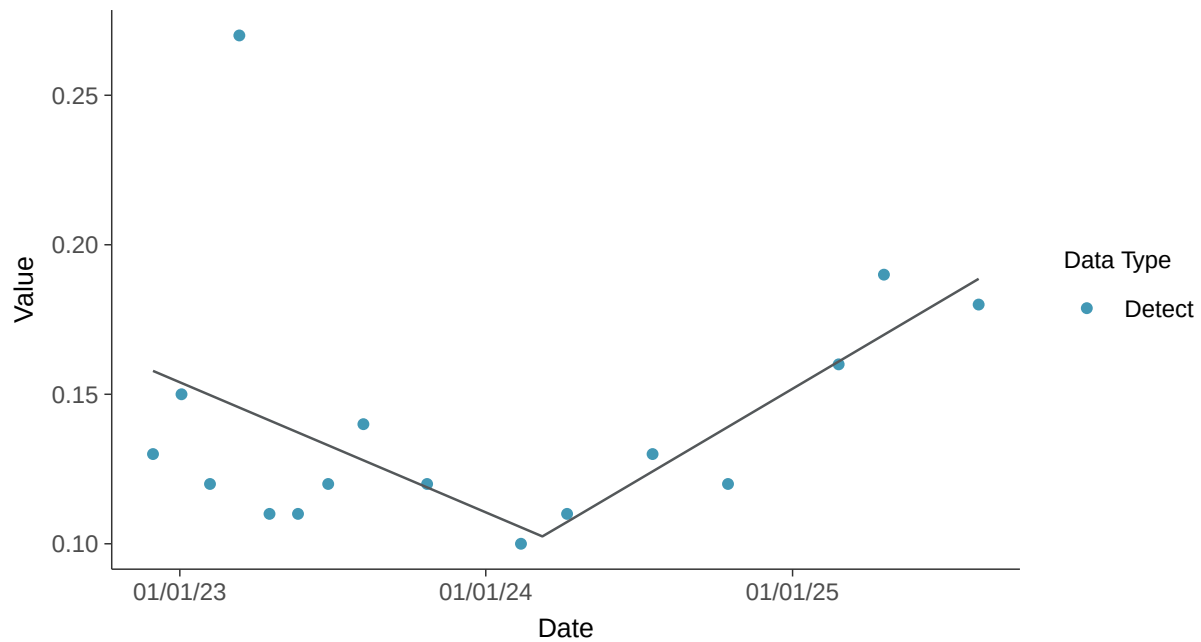
Trend Regression: Lognormal MLE

Lithium, MW-30 (mg/L)



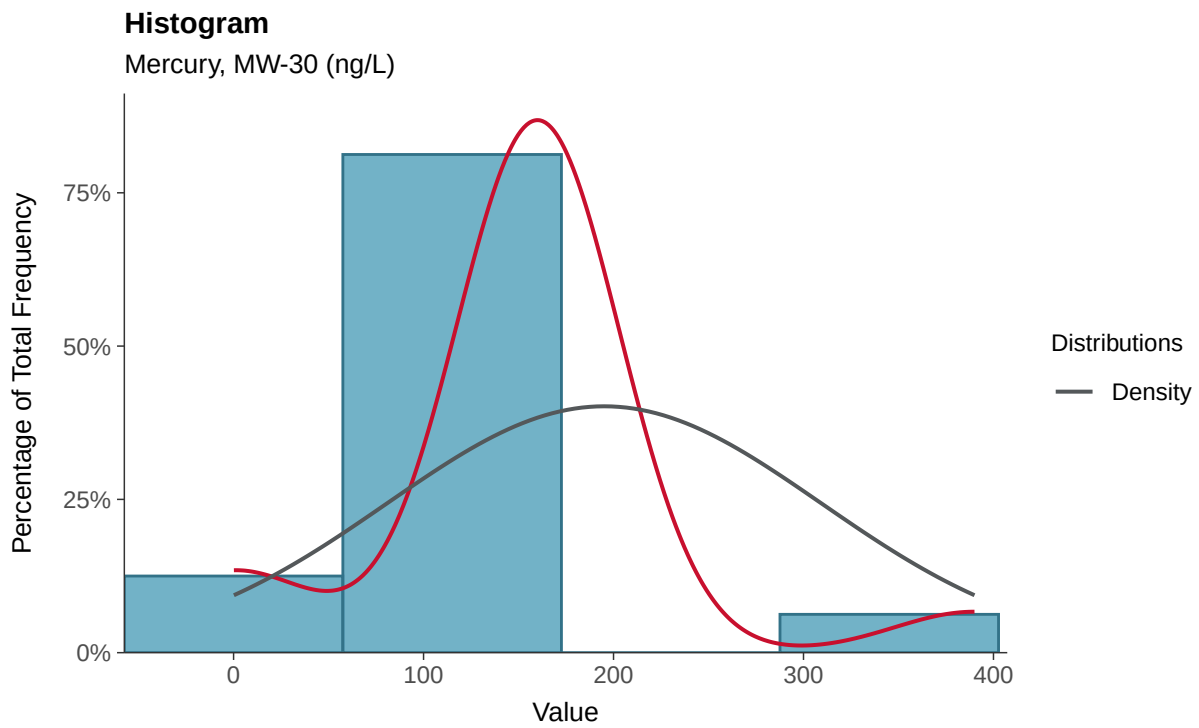
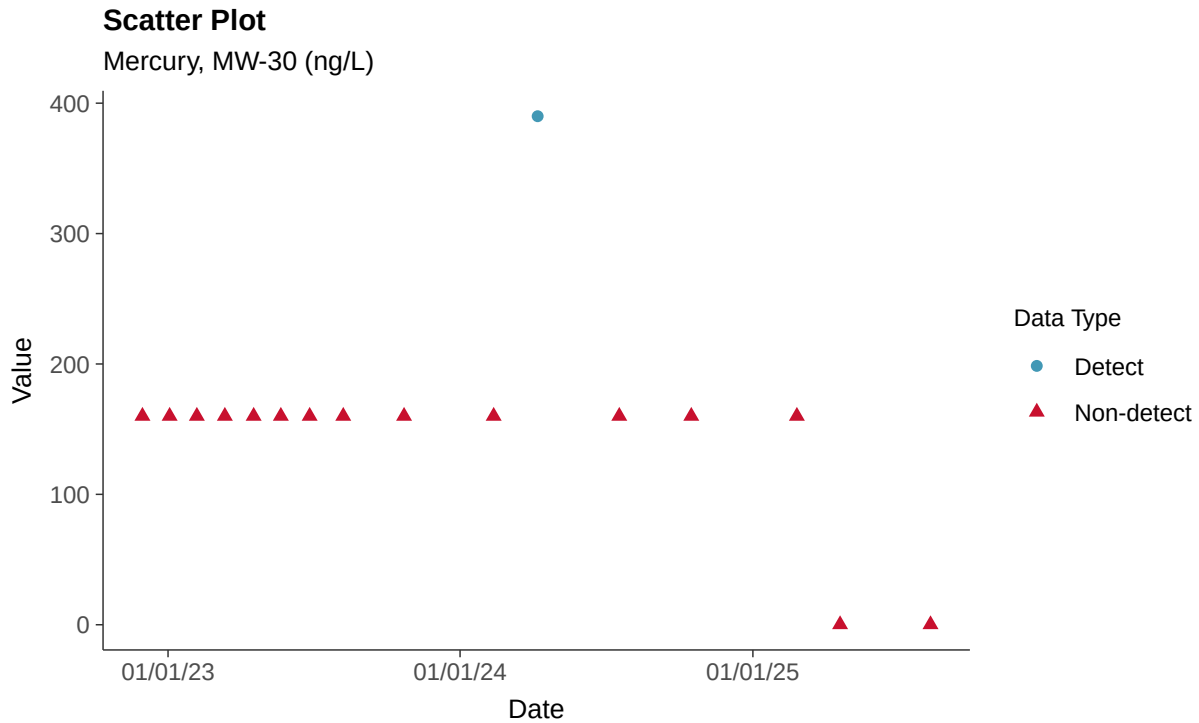
Trend Regression: Piecewise Linear-Linear

Lithium, MW-30 (mg/L)



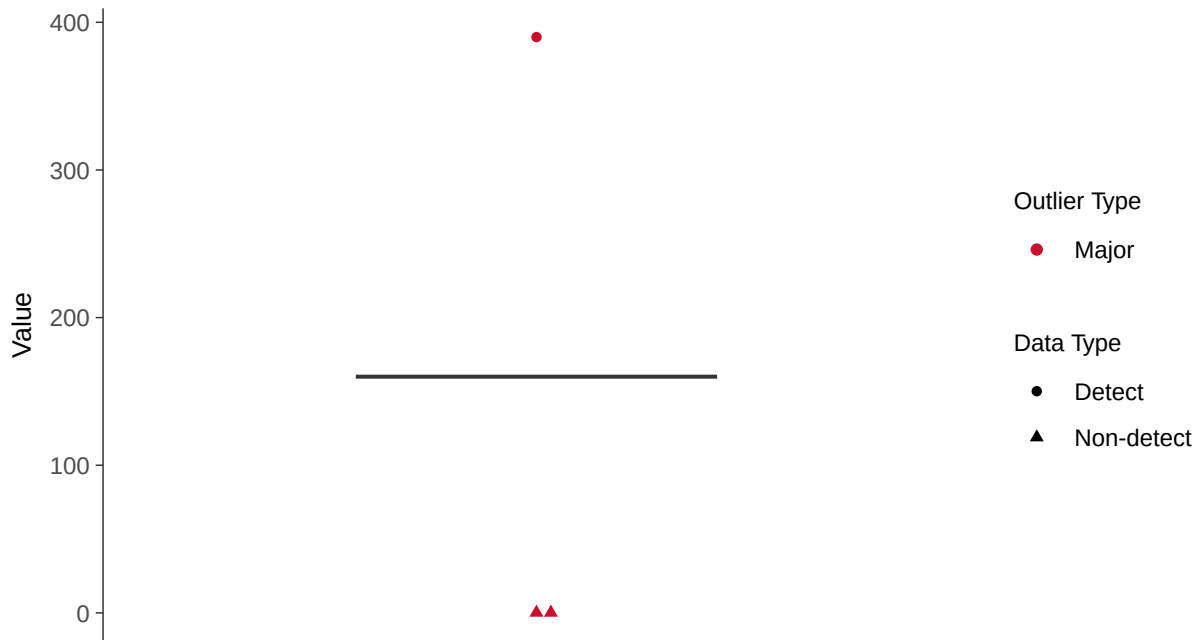
Appendix IV: Mercury, MW-30

ID: 40_1_4_117



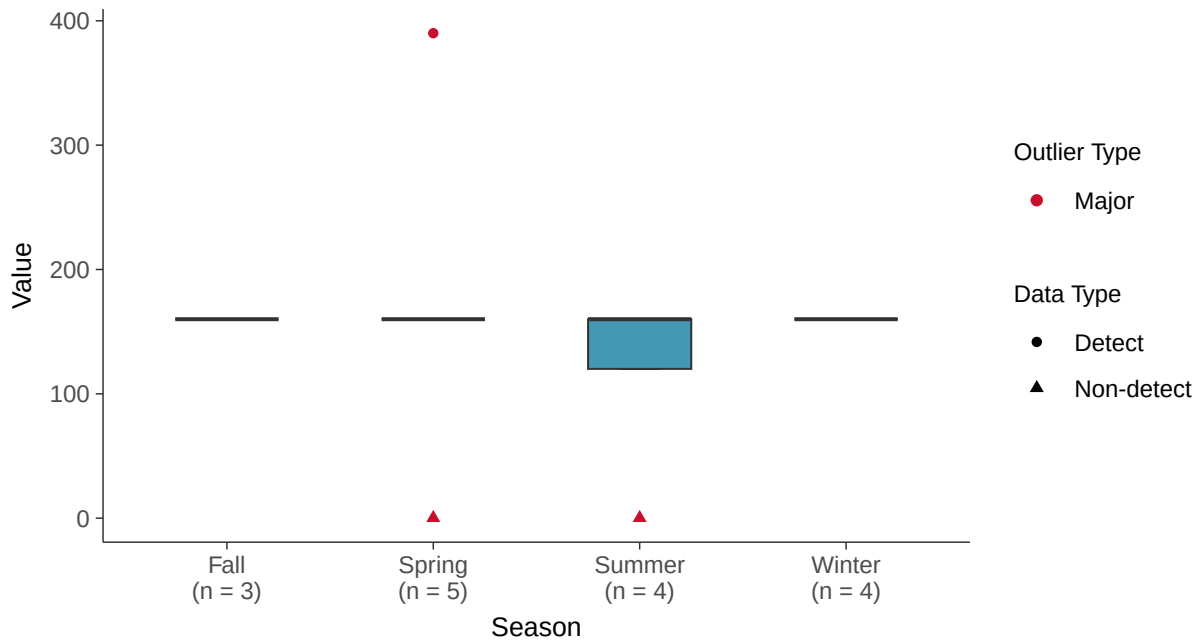
Boxplot

Mercury, MW-30 (ng/L)



Boxplot by Season

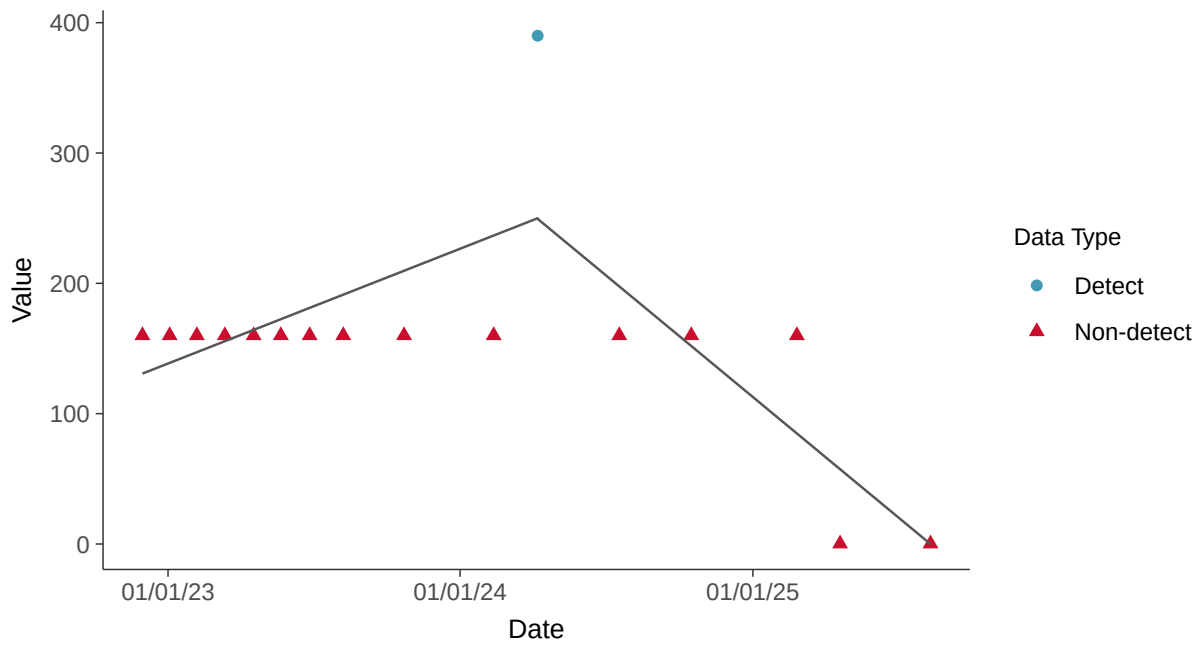
Mercury, MW-30 (ng/L)





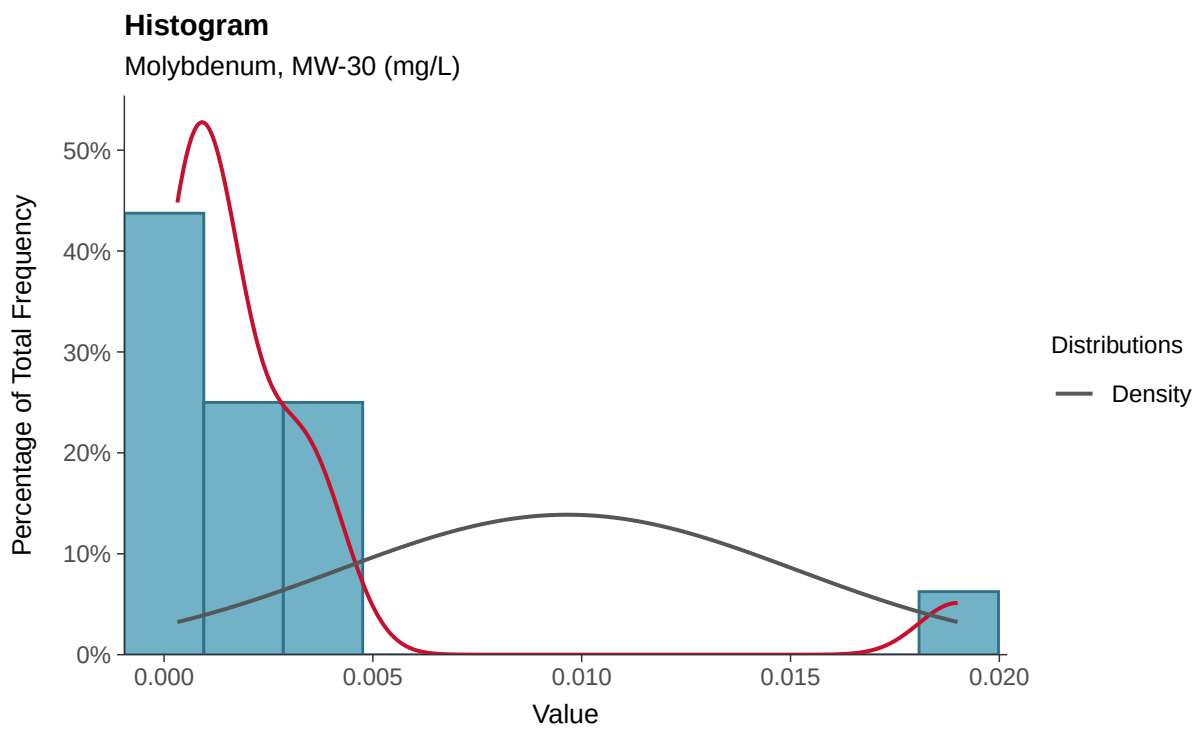
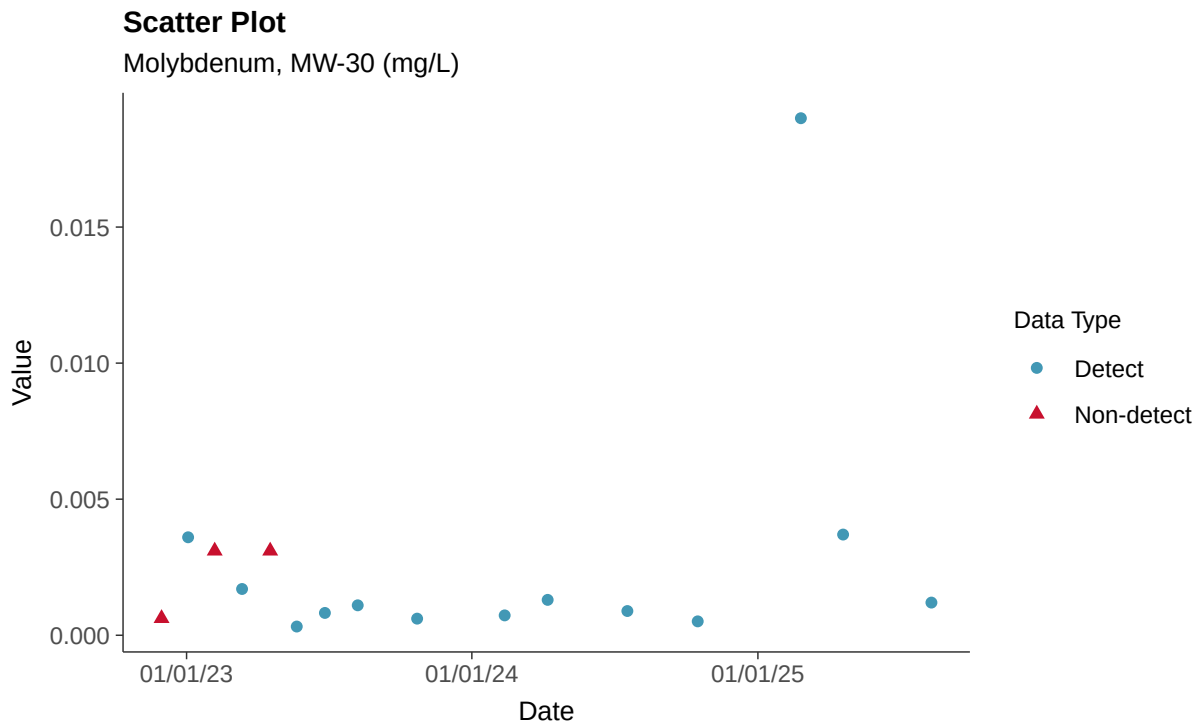
Trend Regression: Piecewise Linear-Linear

Mercury, MW-30 (ng/L)



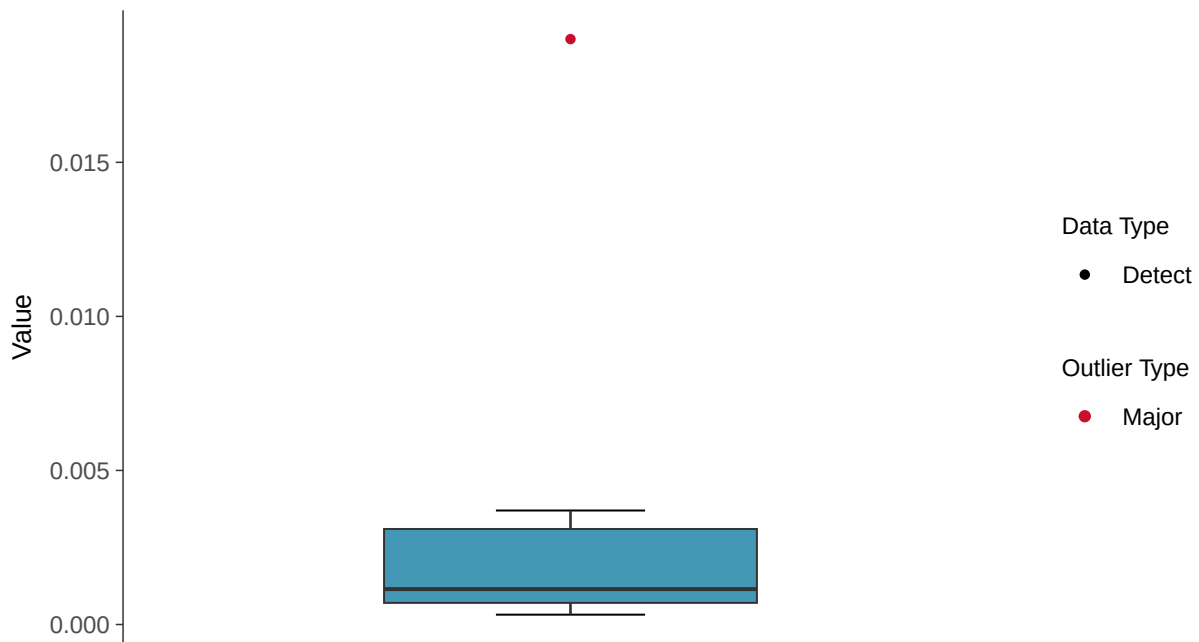
Appendix IV: Molybdenum, MW-30

ID: 40_1_4_118



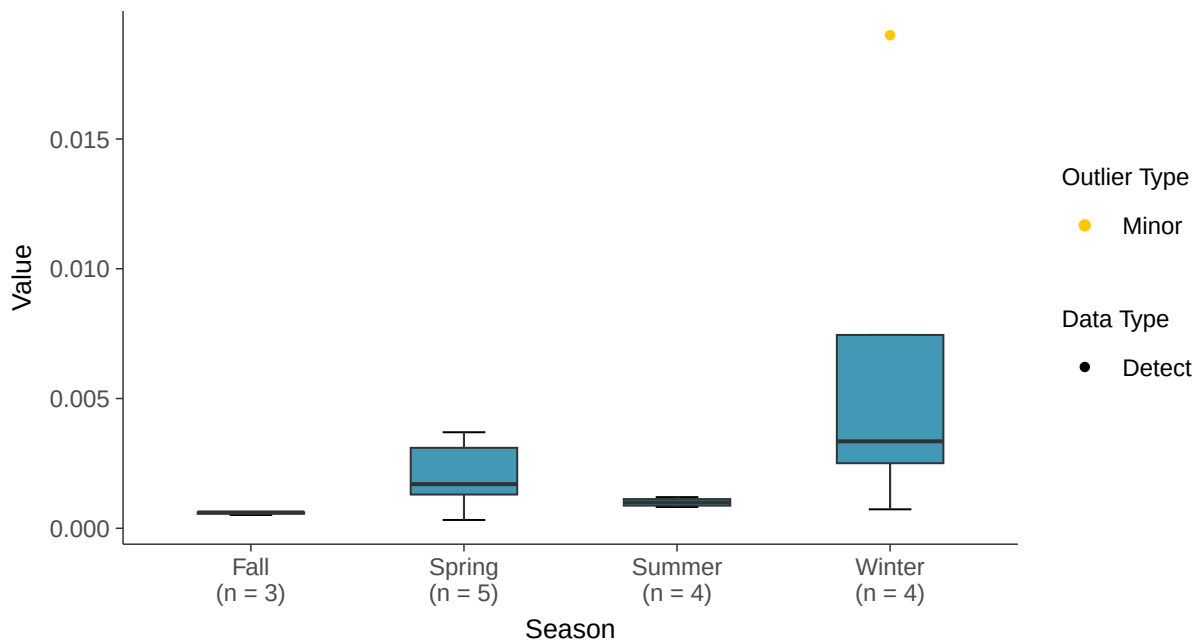
Boxplot

Molybdenum, MW-30 (mg/L)



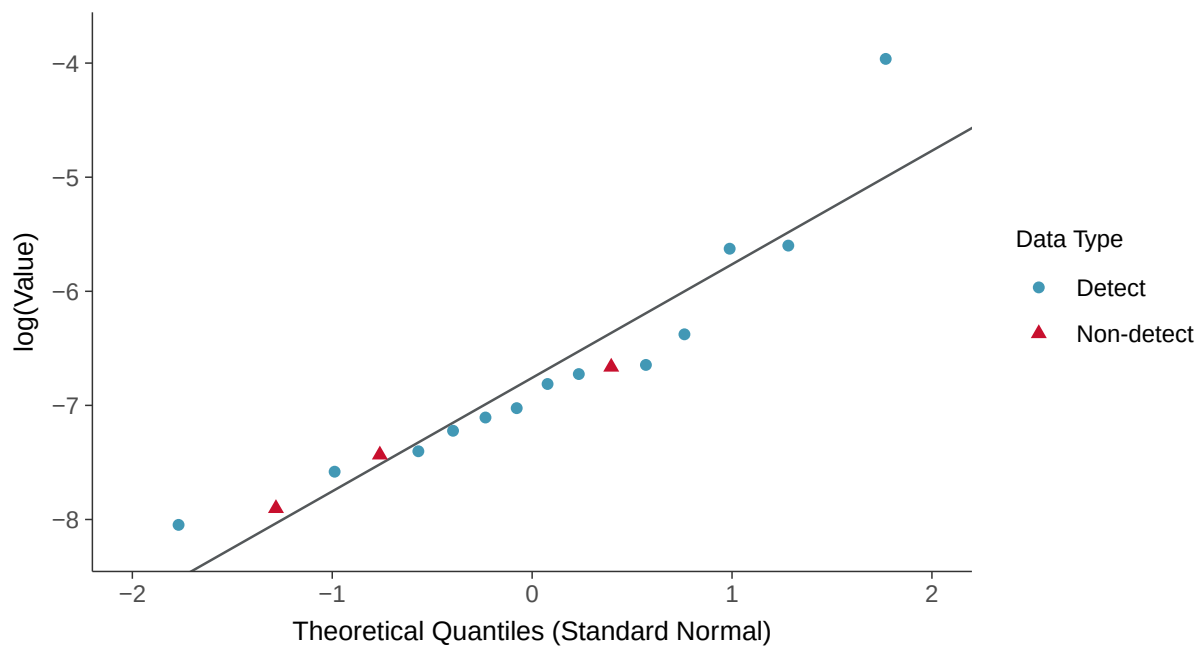
Boxplot by Season

Molybdenum, MW-30 (mg/L)



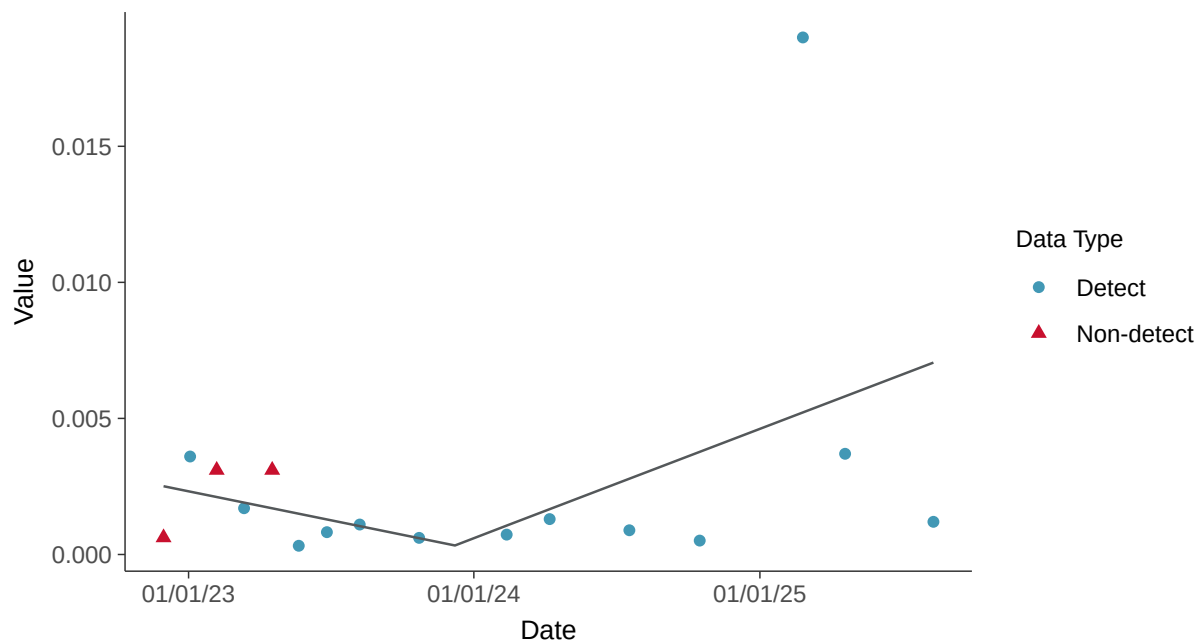
Lognormal Q-Q plot using ROS Imputed Estimates

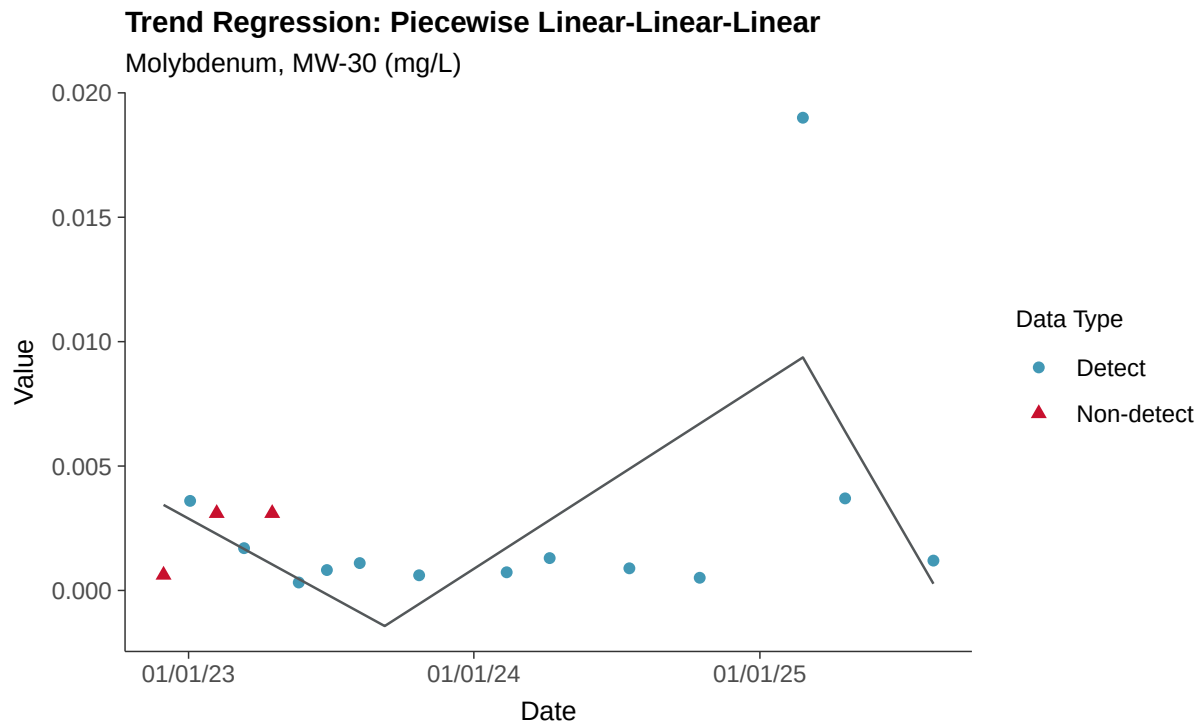
Molybdenum, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-30 (mg/L)



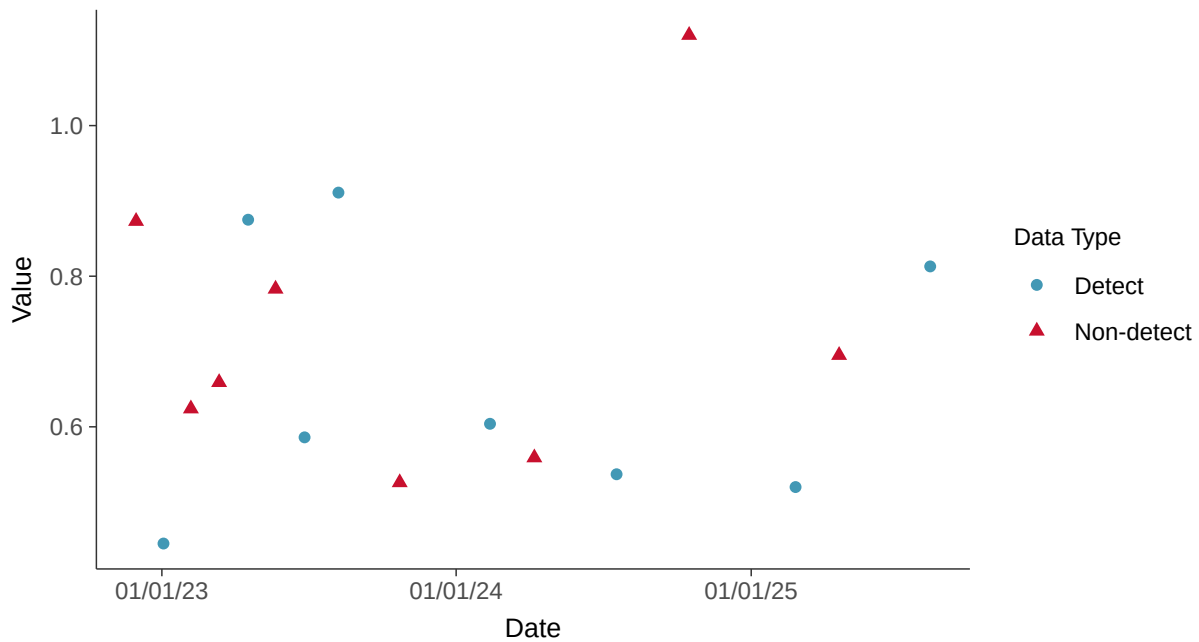


Appendix IV: Radium 226 and 228, MW-30

ID: 40_1_4_121

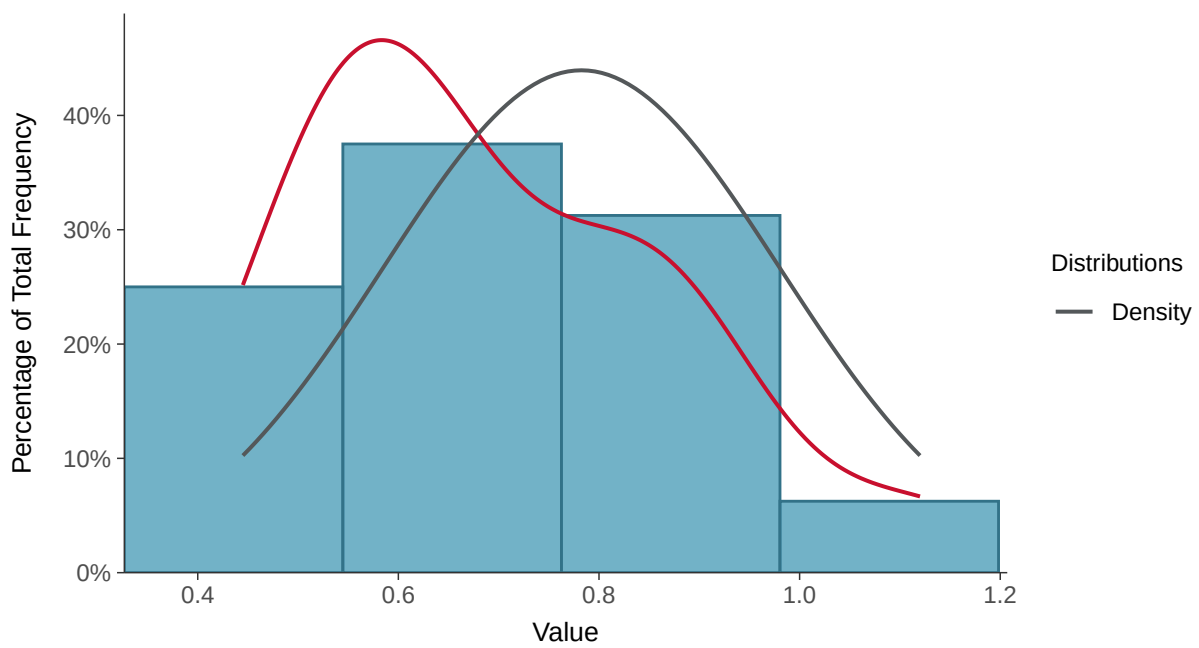
Scatter Plot

Radium 226 and 228, MW-30 (pCi/L)



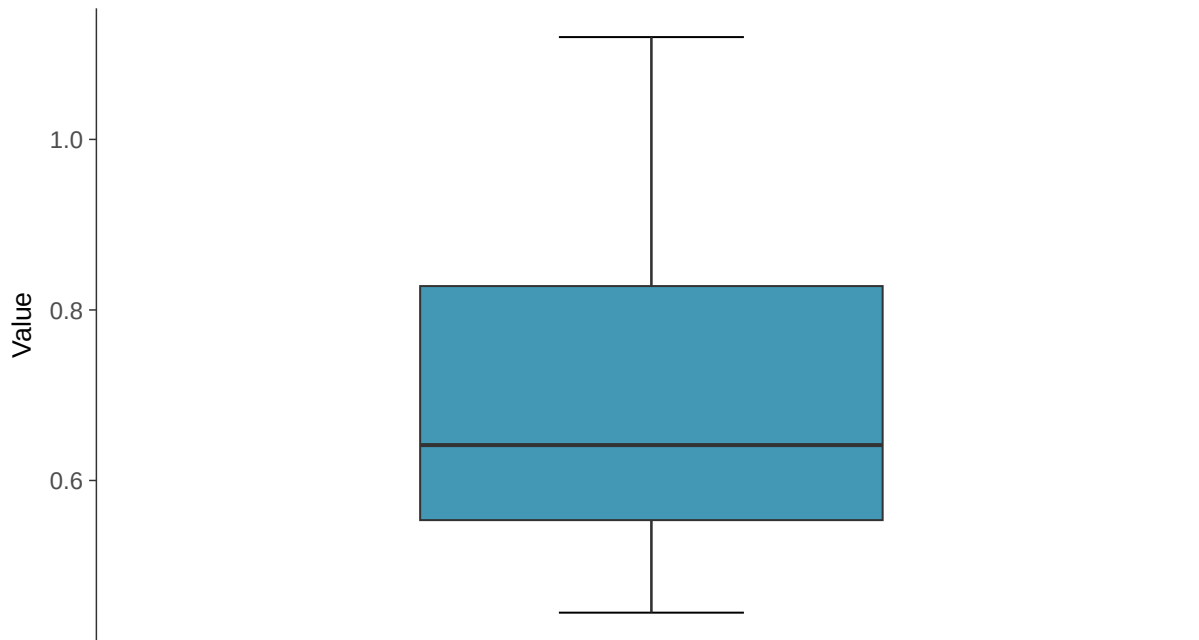
Histogram

Radium 226 and 228, MW-30 (pCi/L)



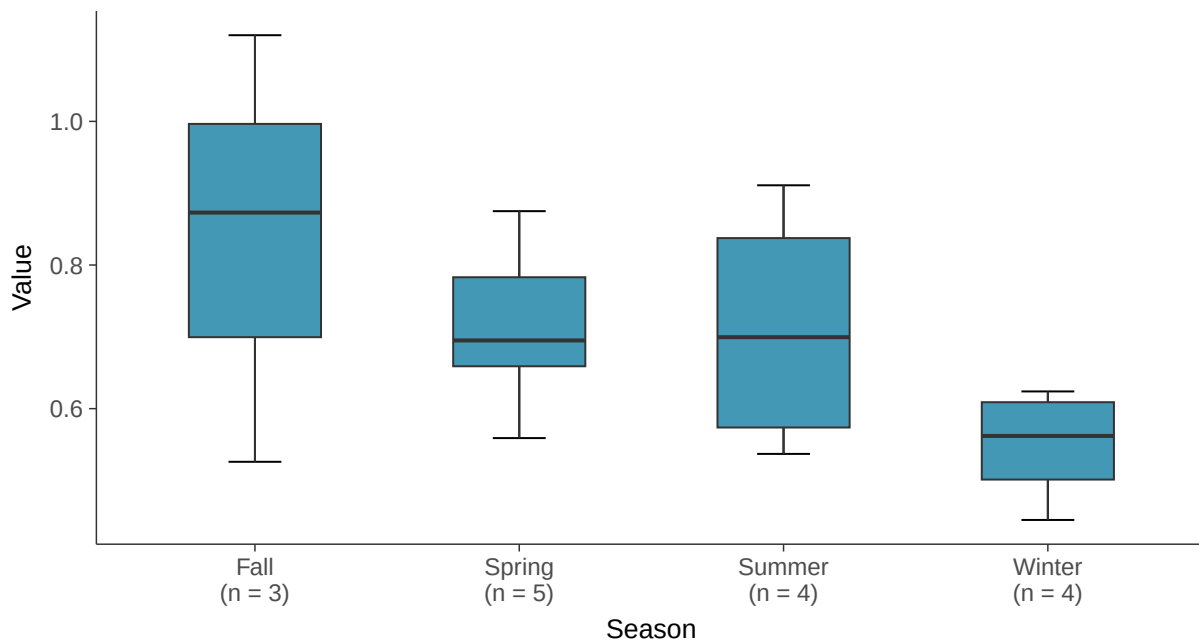
Boxplot

Radium 226 and 228, MW-30 (pCi/L)



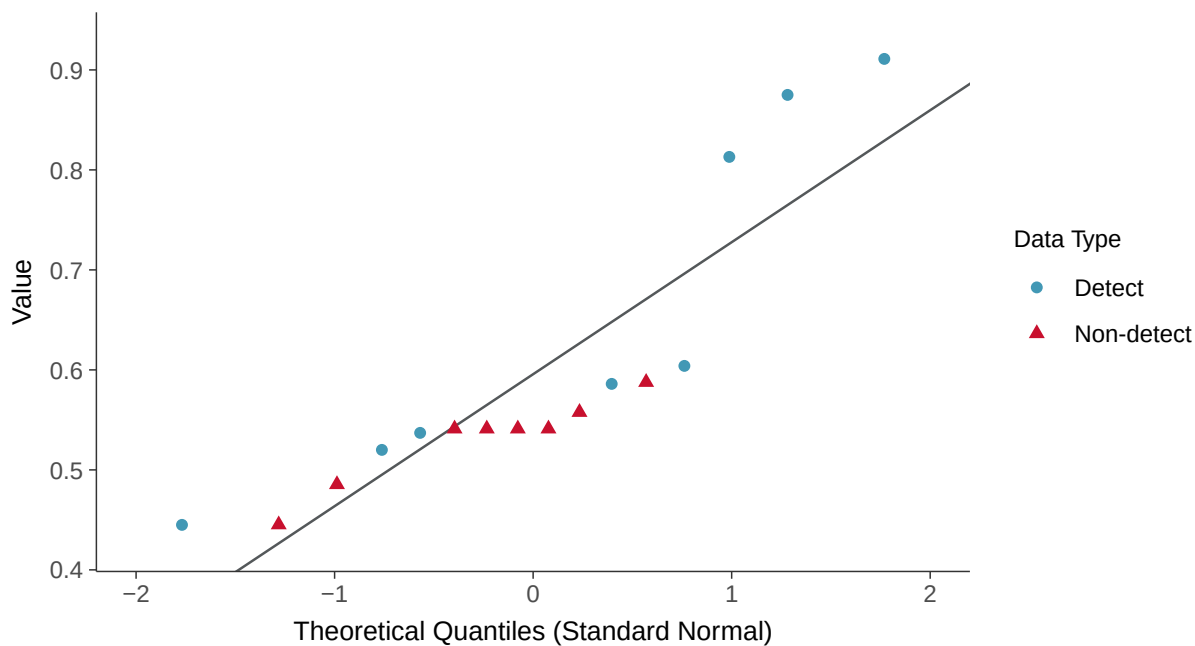
Boxplot by Season

Radium 226 and 228, MW-30 (pCi/L)



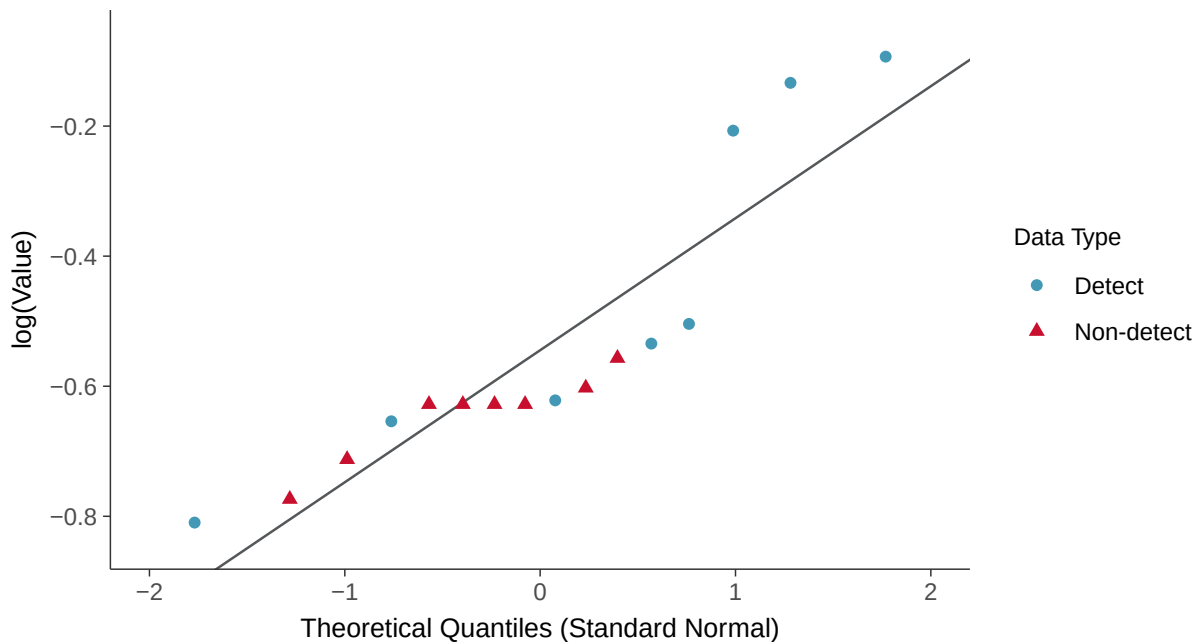
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



Lognormal Q-Q plot using ROS Imputed Estimates

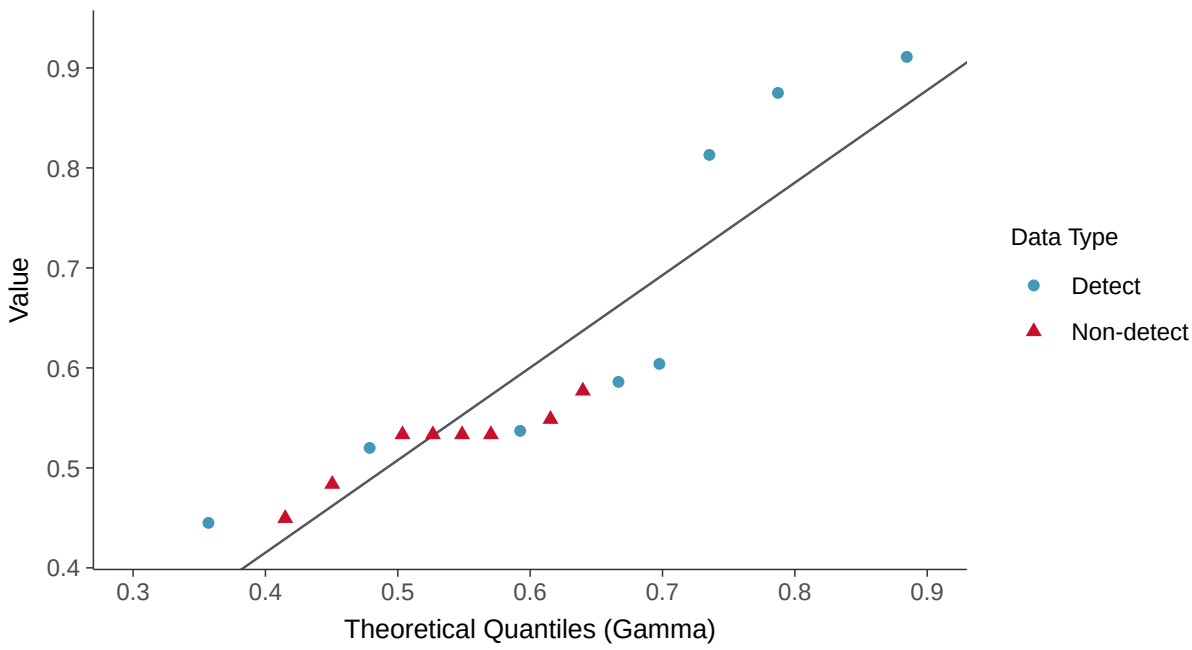
Radium 226 and 228, MW-30 (pCi/L)





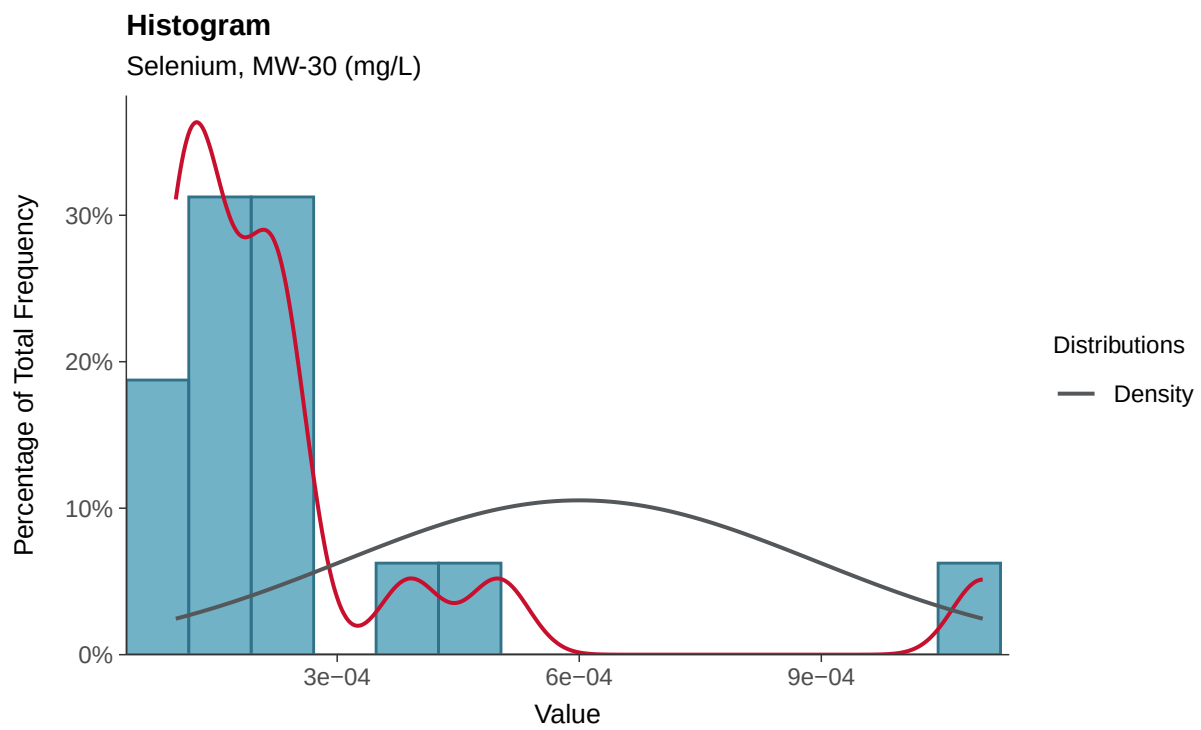
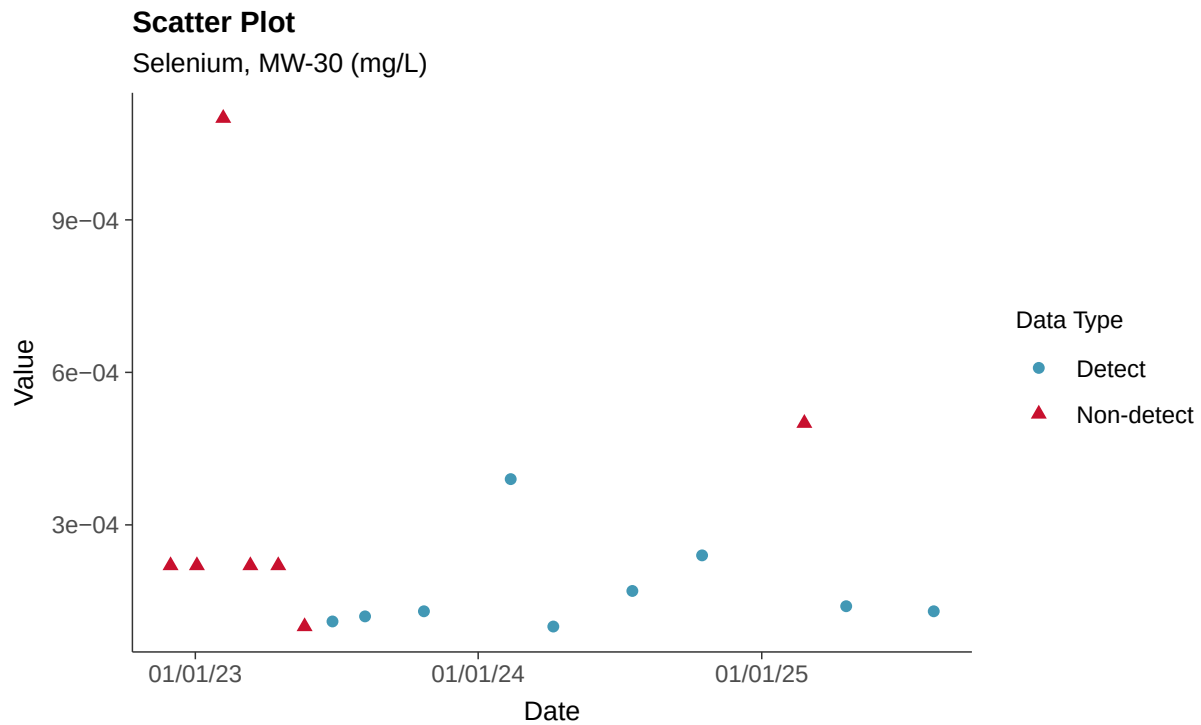
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



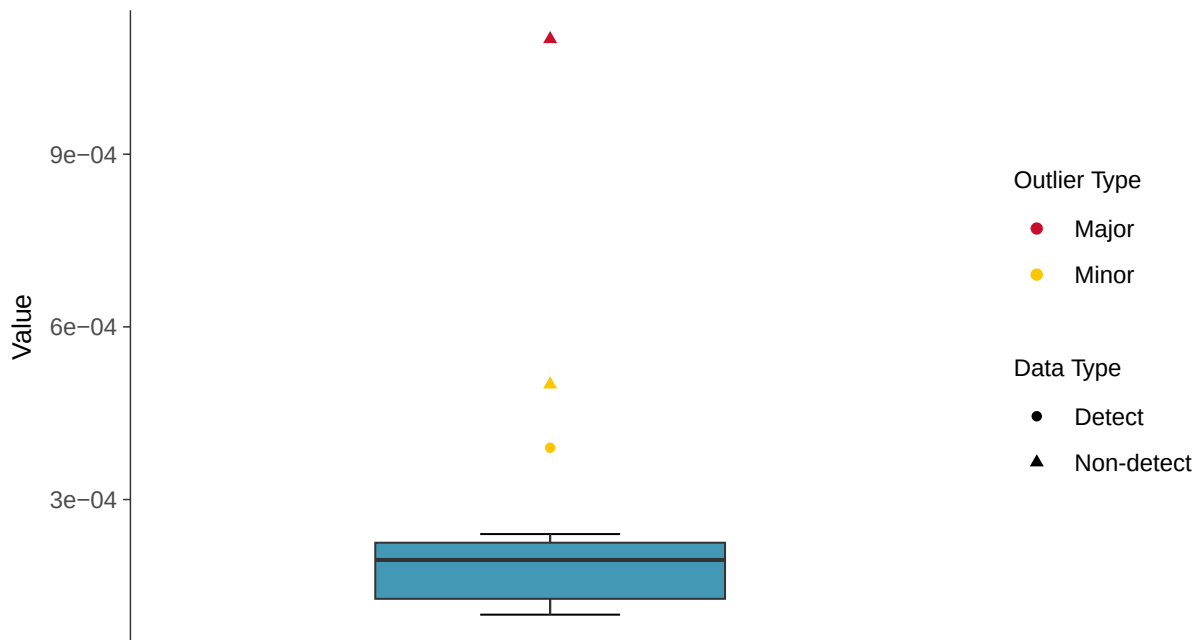
Appendix IV: Selenium, MW-30

ID: 40_1_4_122



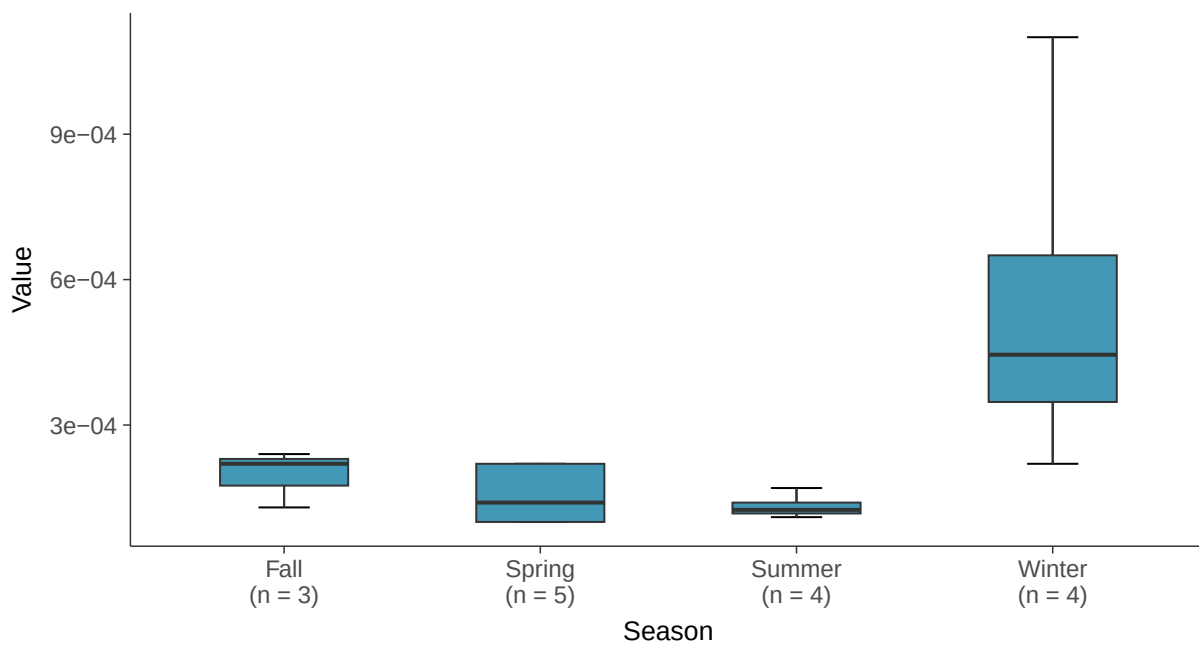
Boxplot

Selenium, MW-30 (mg/L)



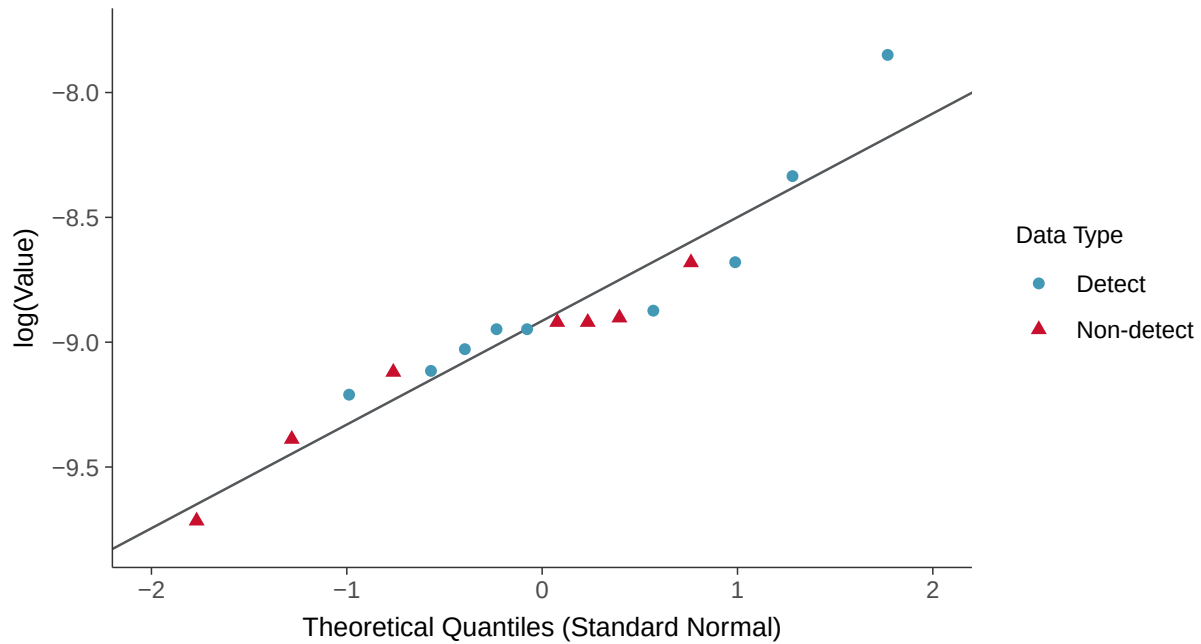
Boxplot by Season

Selenium, MW-30 (mg/L)



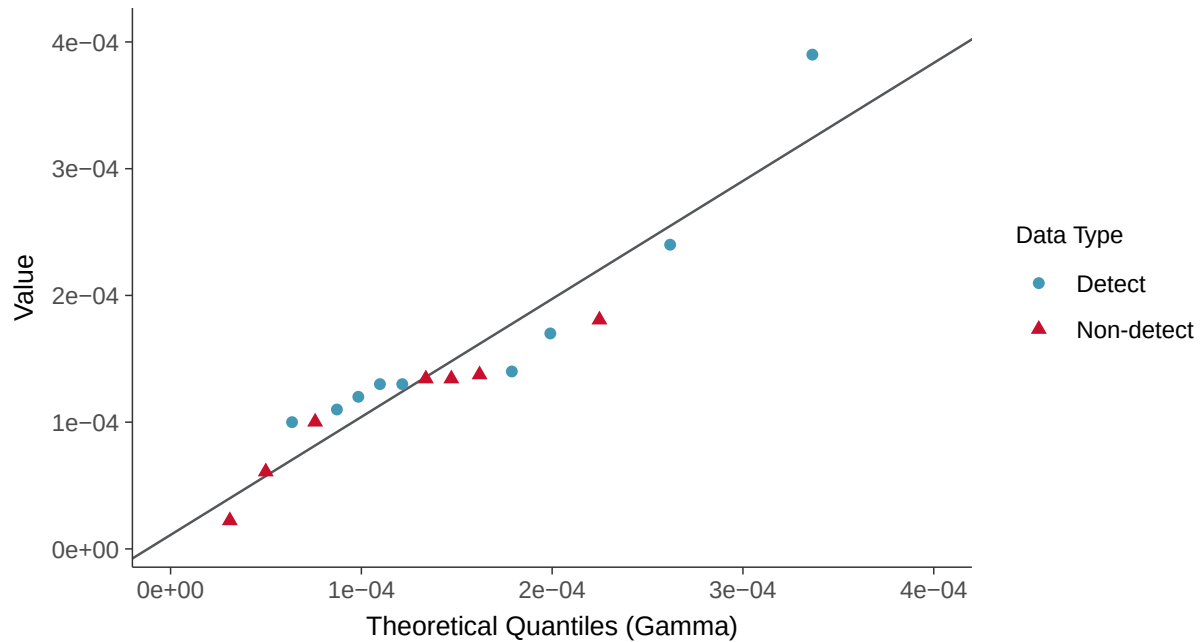
Lognormal Q-Q plot using ROS Imputed Estimates

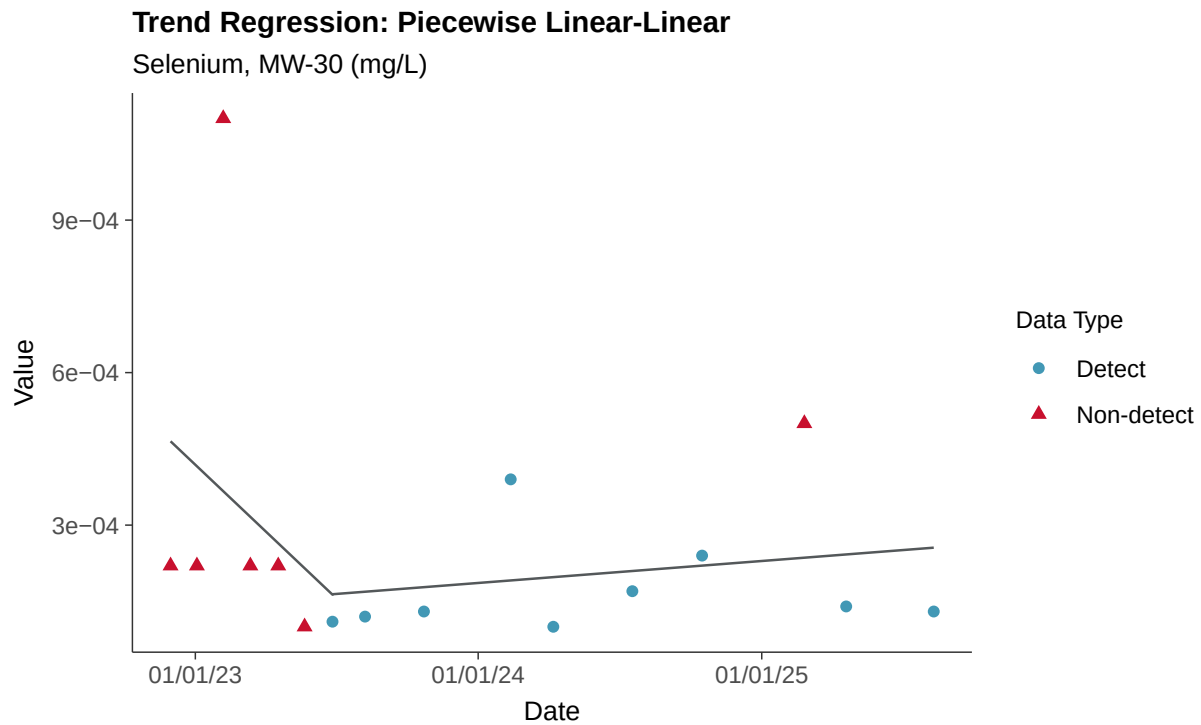
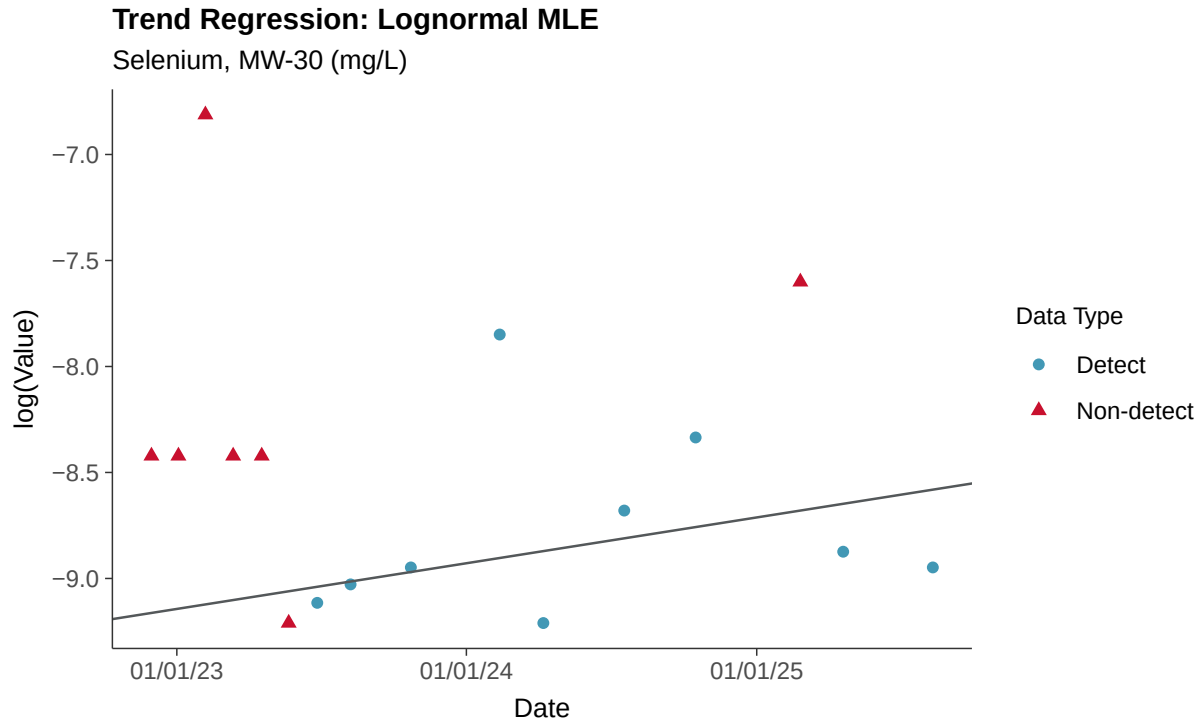
Selenium, MW-30 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

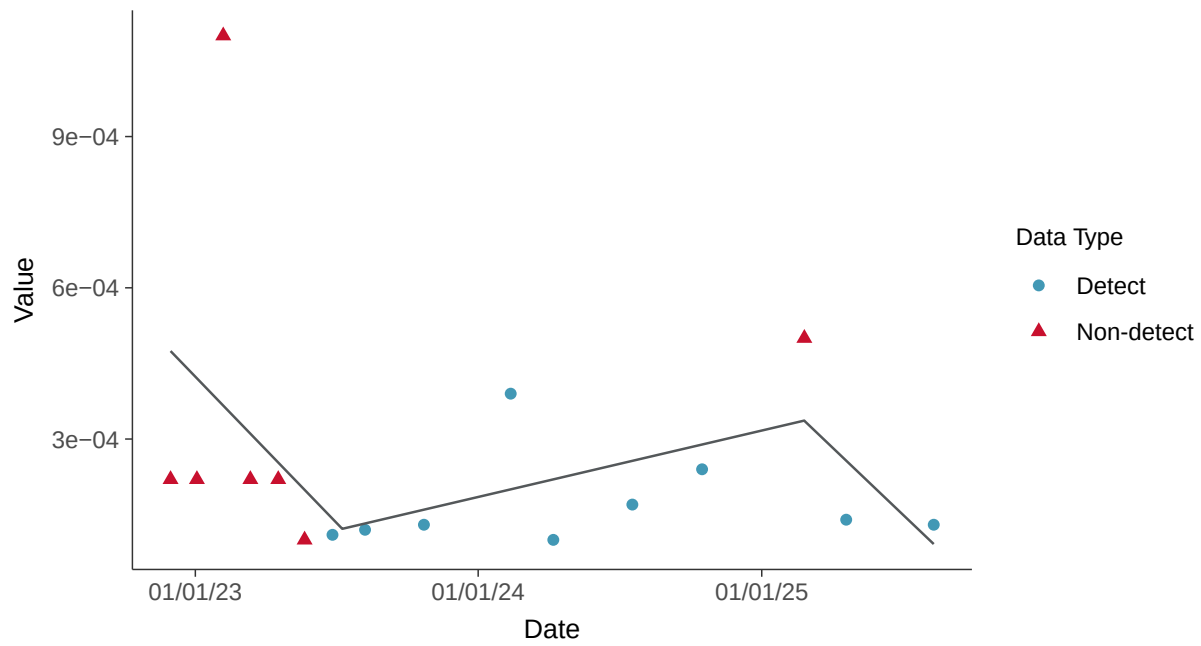
Selenium, MW-30 (mg/L)





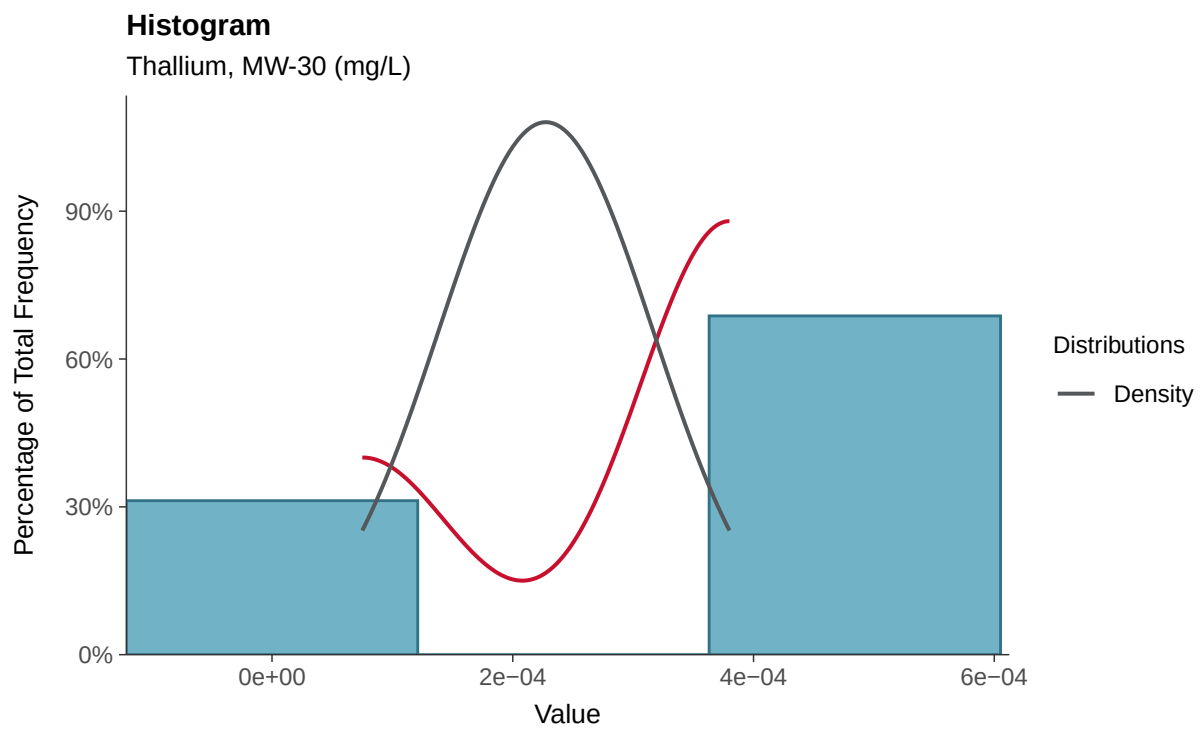
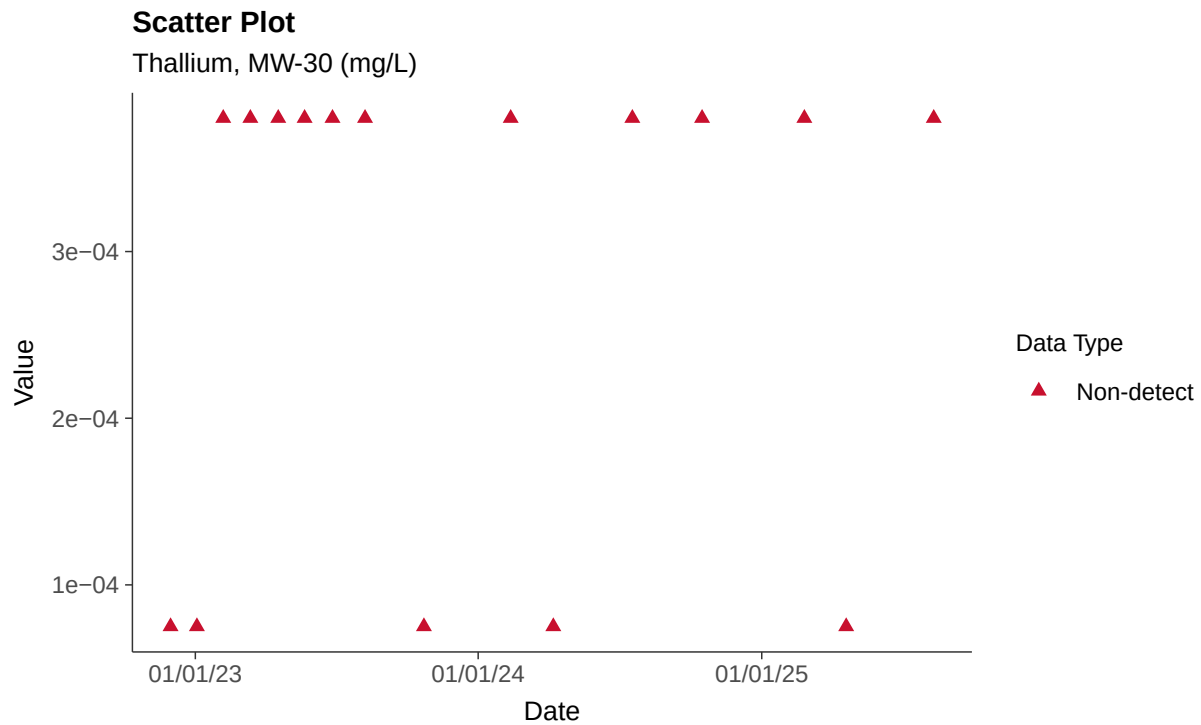


Trend Regression: Piecewise Linear-Linear-Linear
Selenium, MW-30 (mg/L)



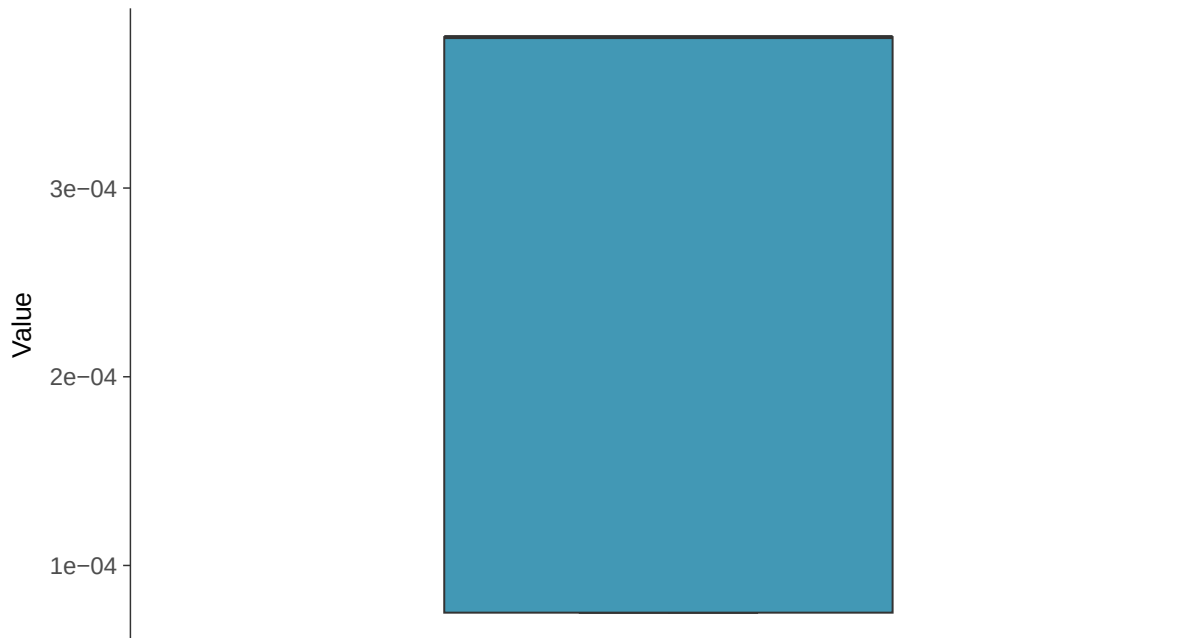
Appendix IV: Thallium, MW-30

ID: 40_1_4_125



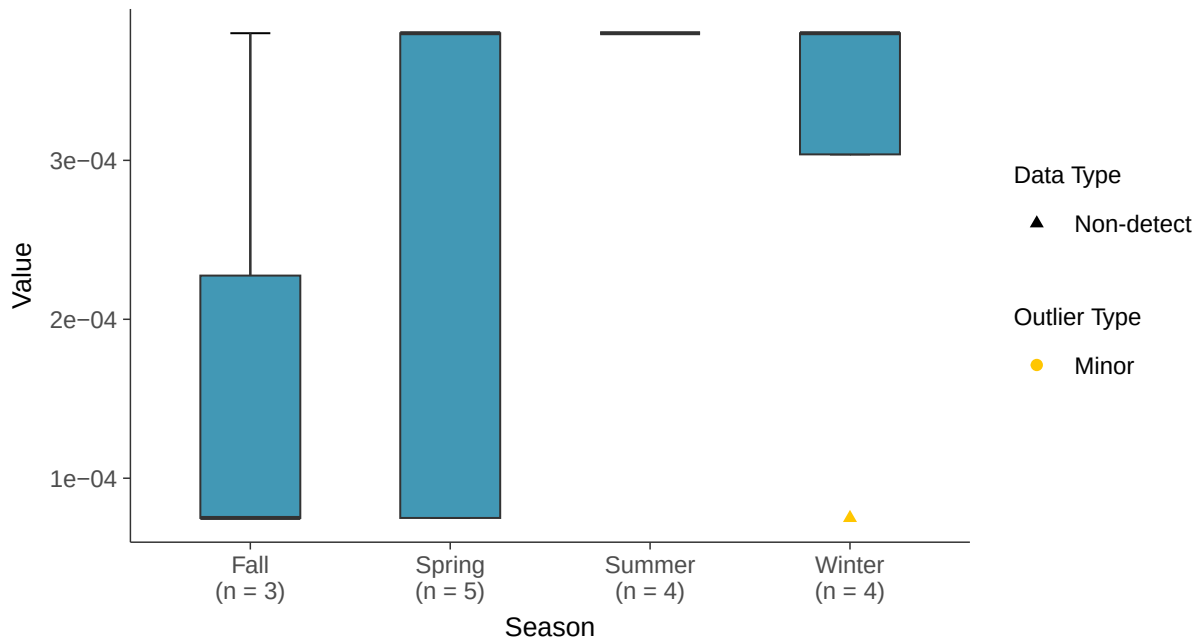
Boxplot

Thallium, MW-30 (mg/L)



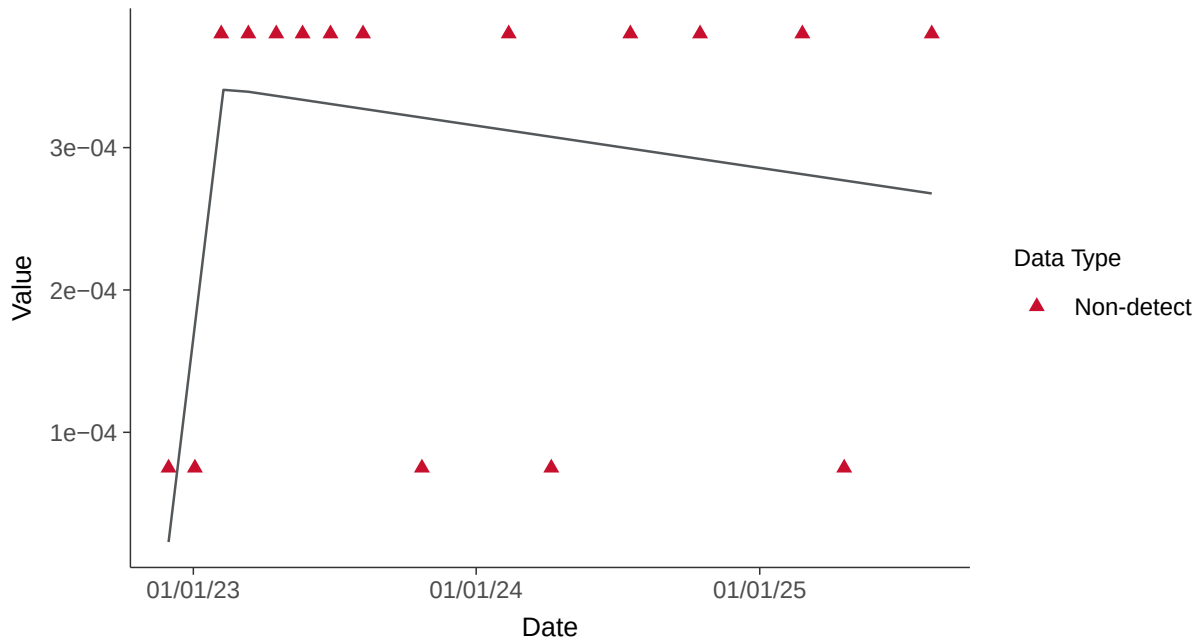
Boxplot by Season

Thallium, MW-30 (mg/L)



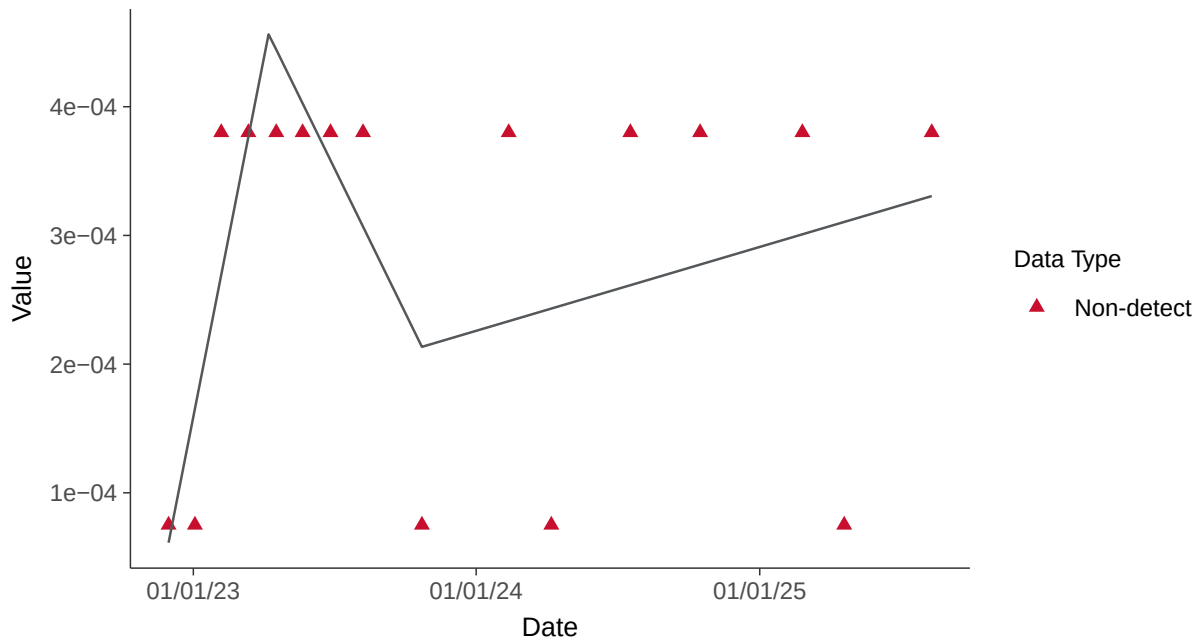
Trend Regression: Piecewise Linear-Linear

Thallium, MW-30 (mg/L)



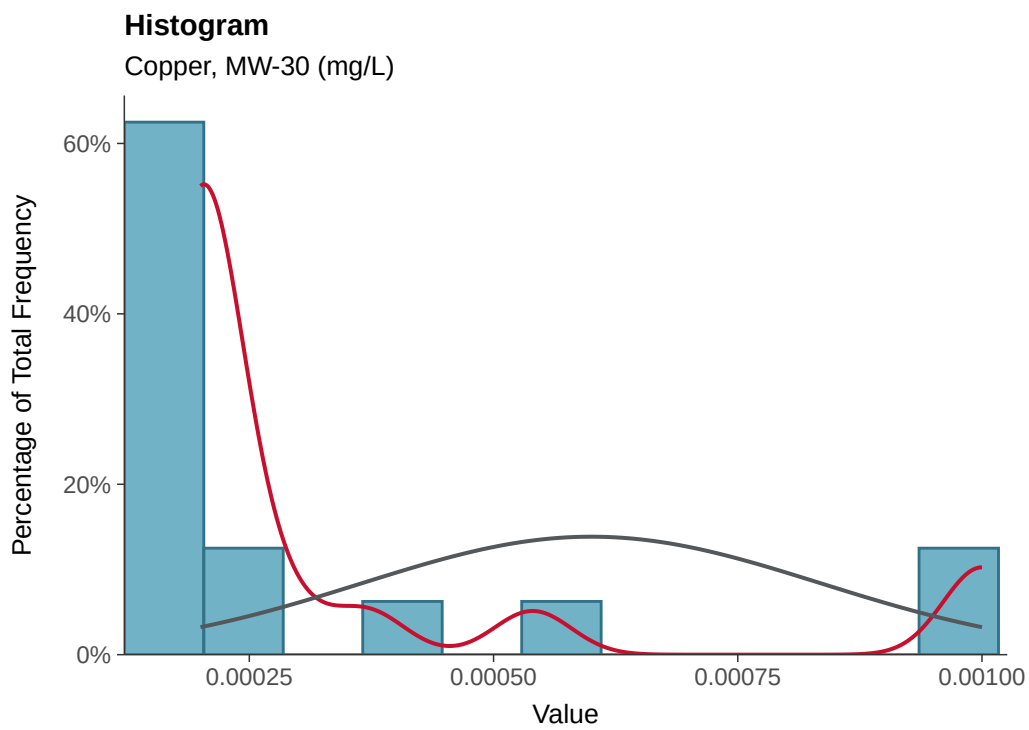
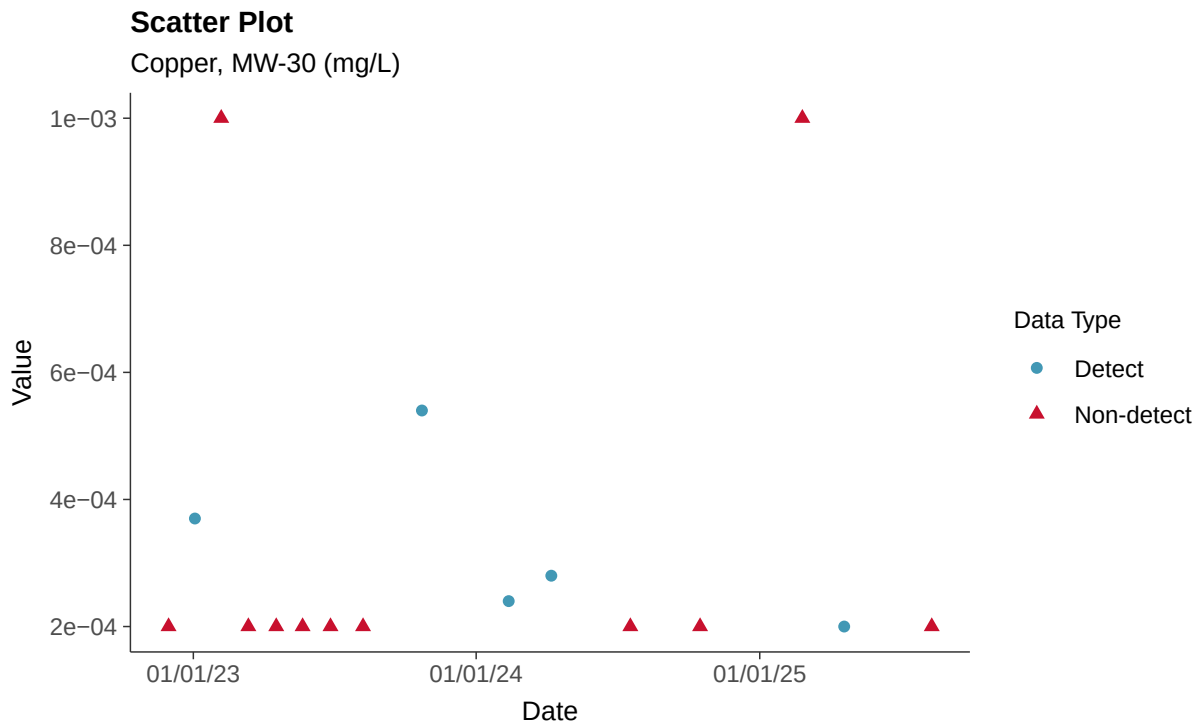
Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-30 (mg/L)



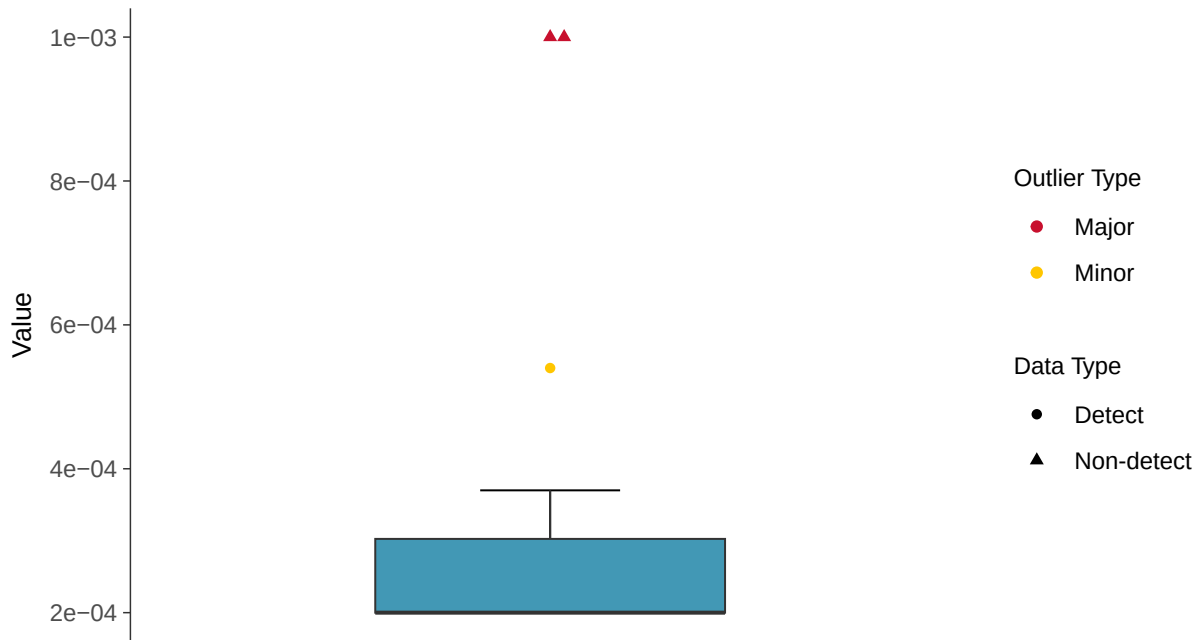
Part 115: Copper, MW-30

ID: 40_1_5_111



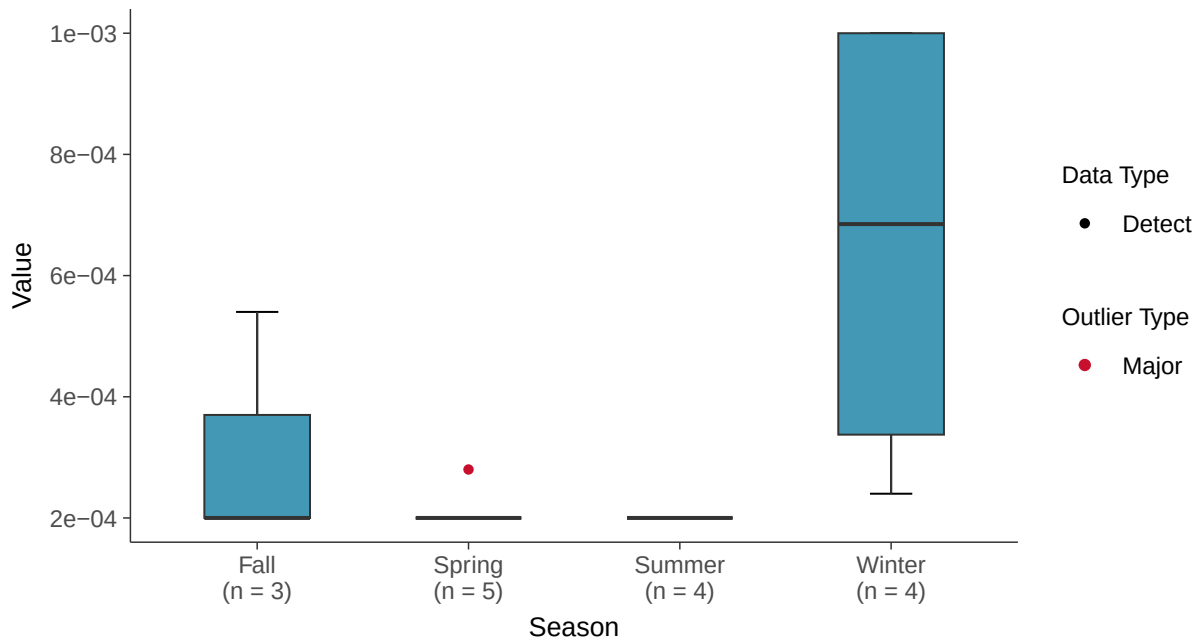
Boxplot

Copper, MW-30 (mg/L)



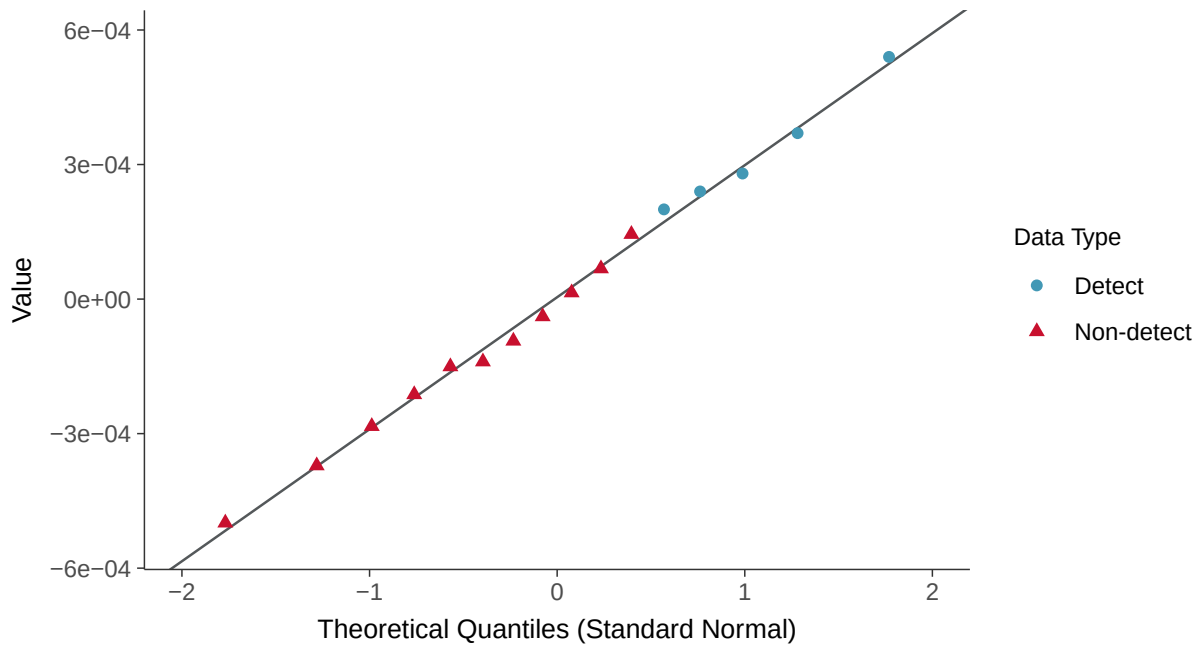
Boxplot by Season

Copper, MW-30 (mg/L)



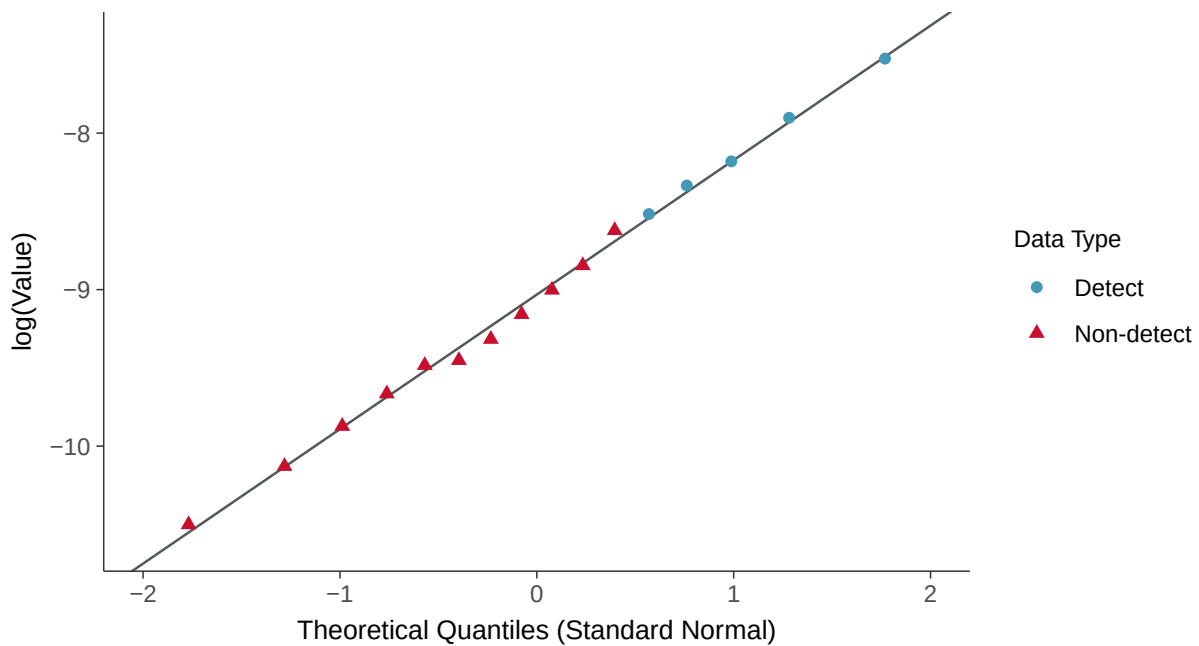
Normal Q-Q plot using ROS Imputed Estimates

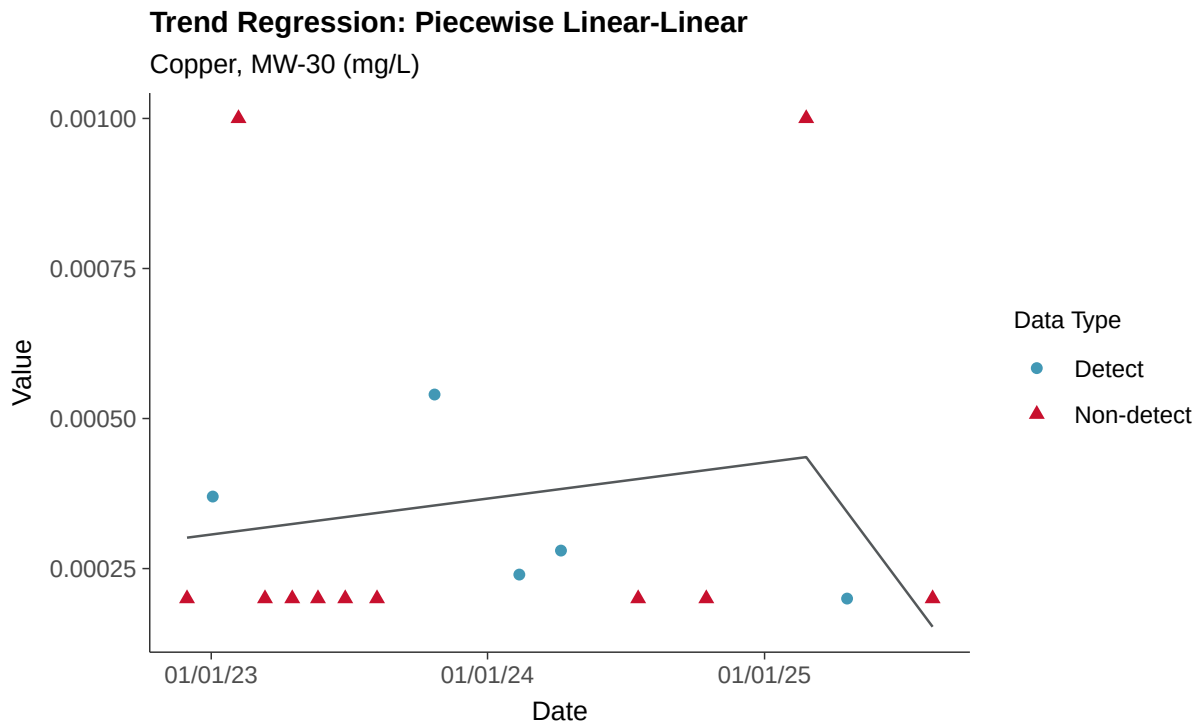
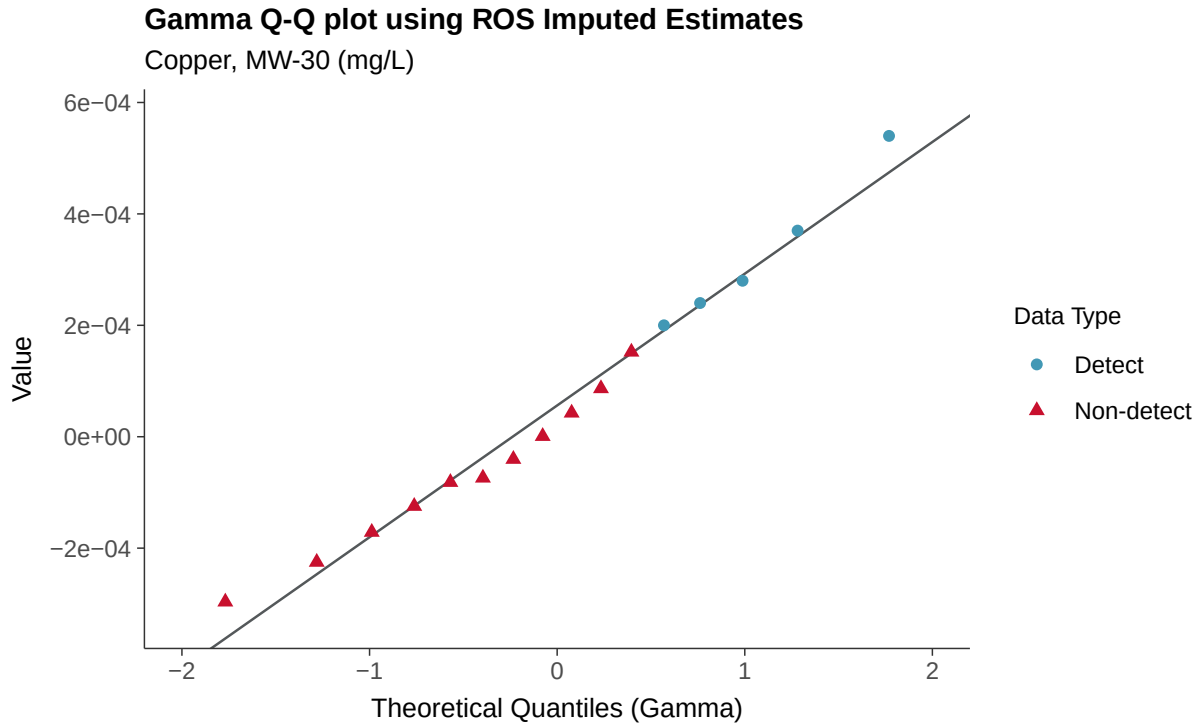
Copper, MW-30 (mg/L)

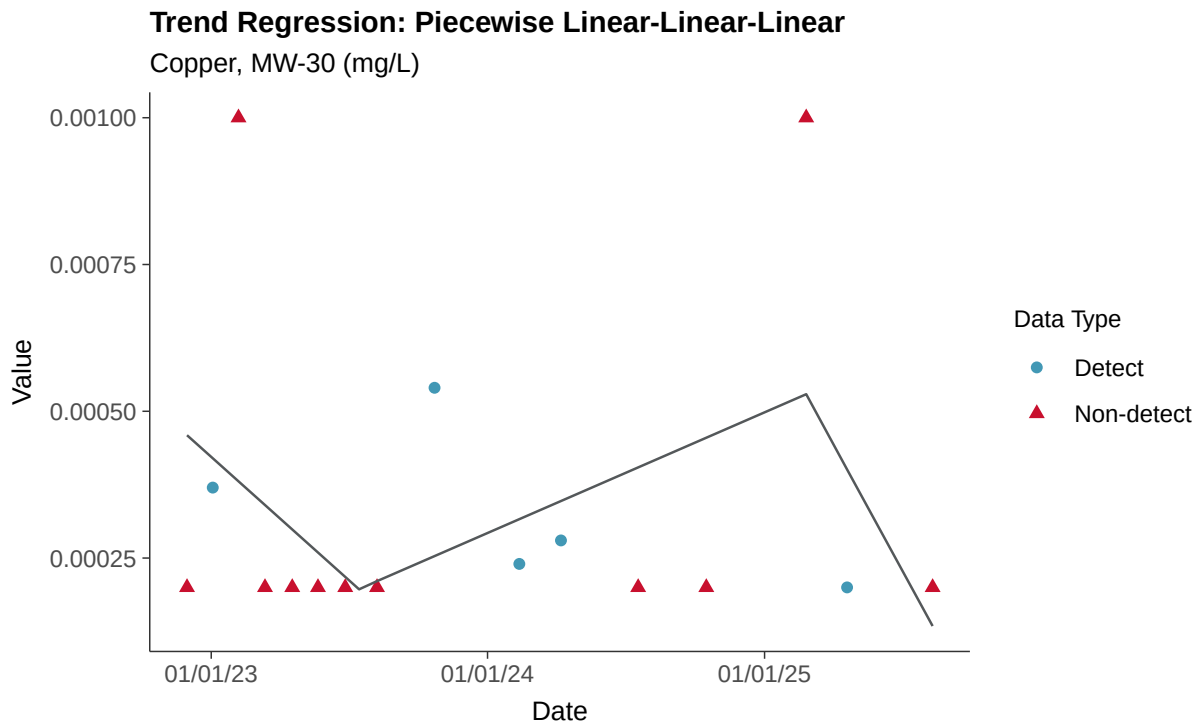


Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-30 (mg/L)

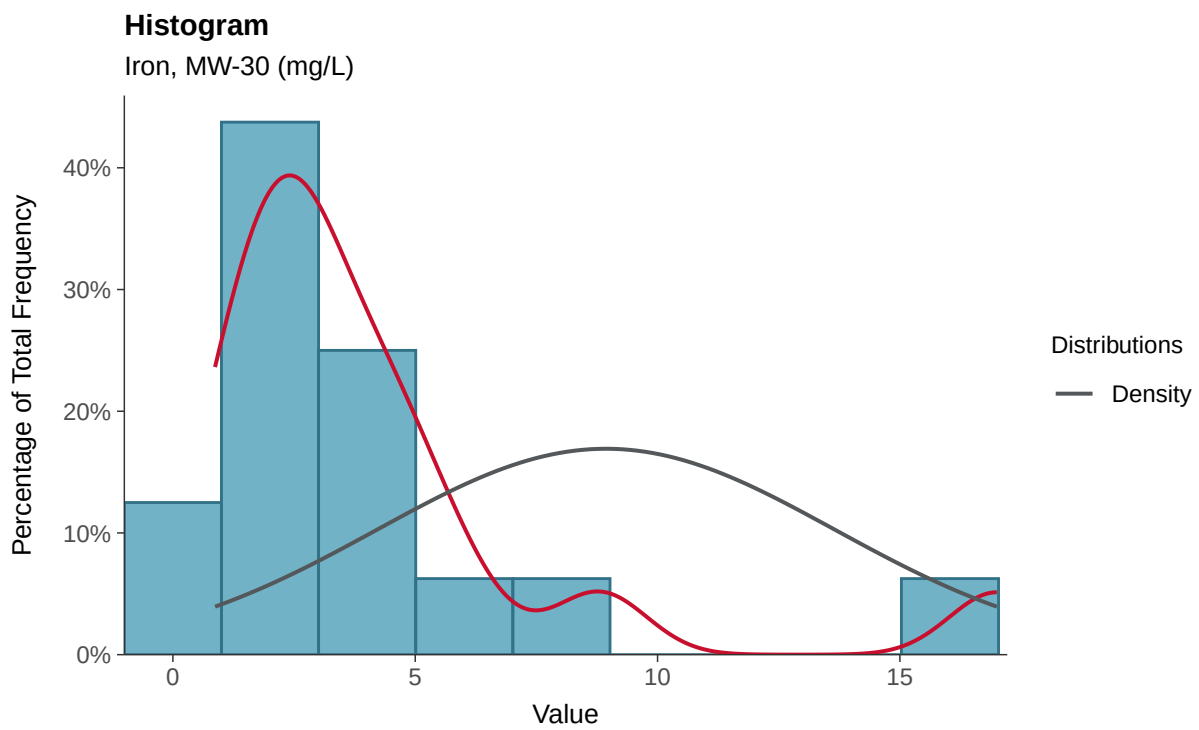
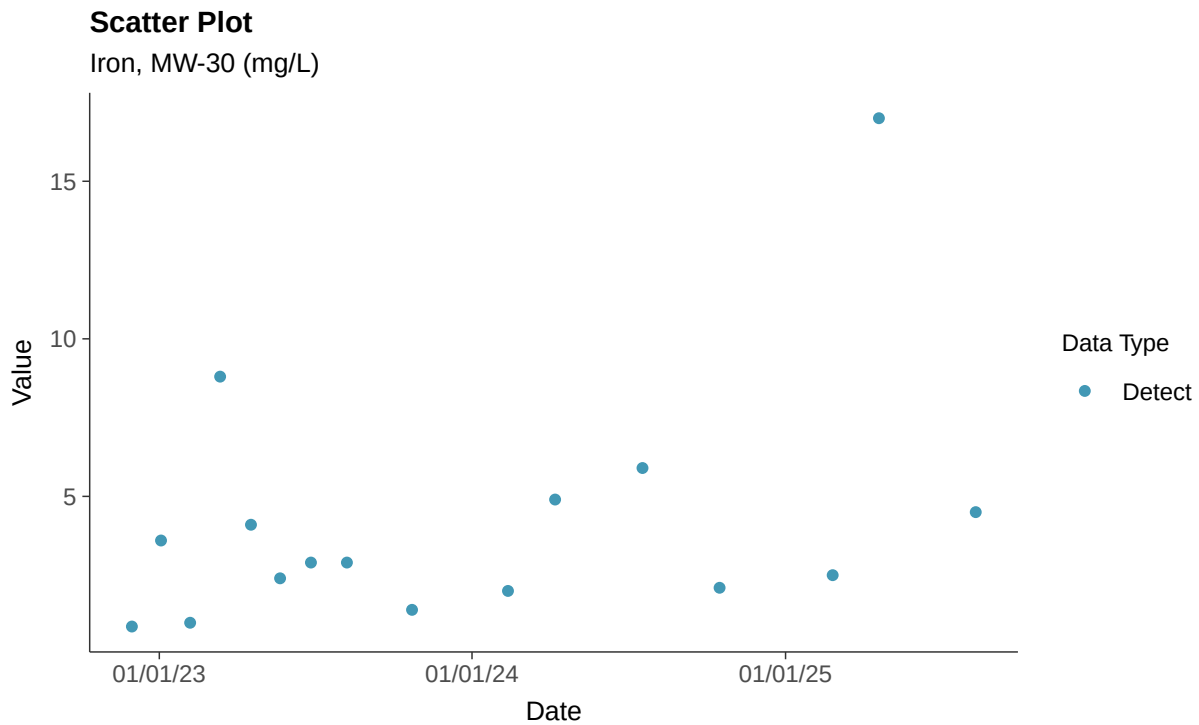


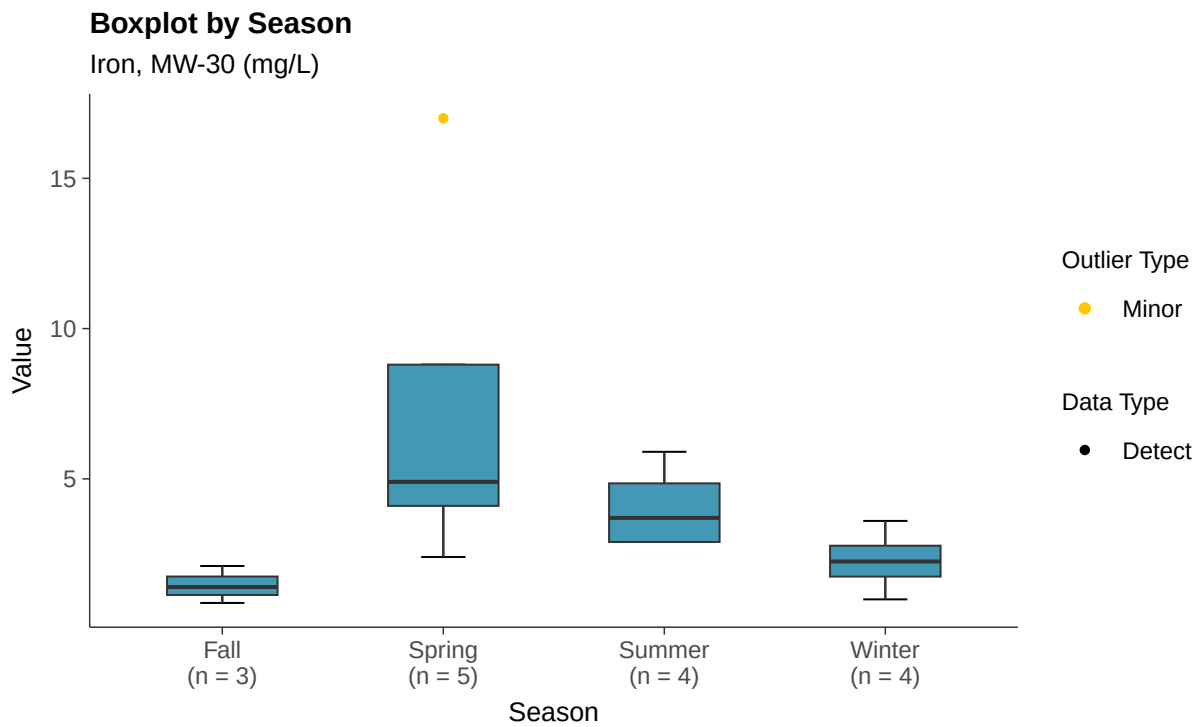
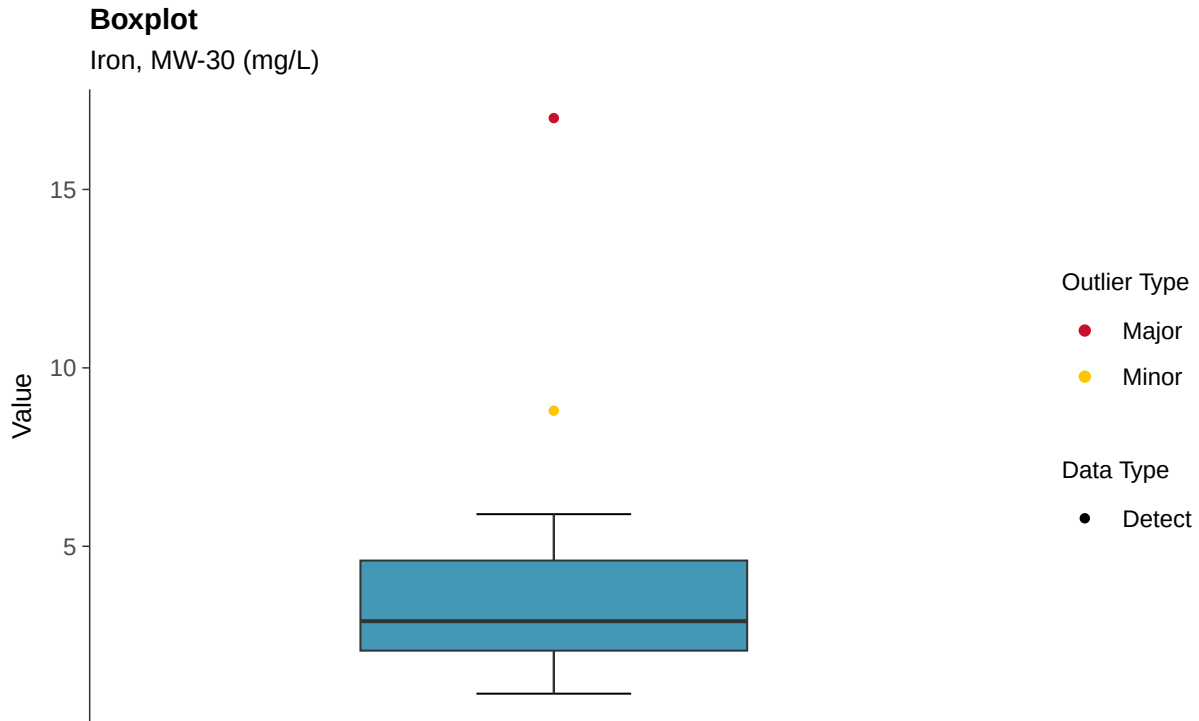




Part 115: Iron, MW-30

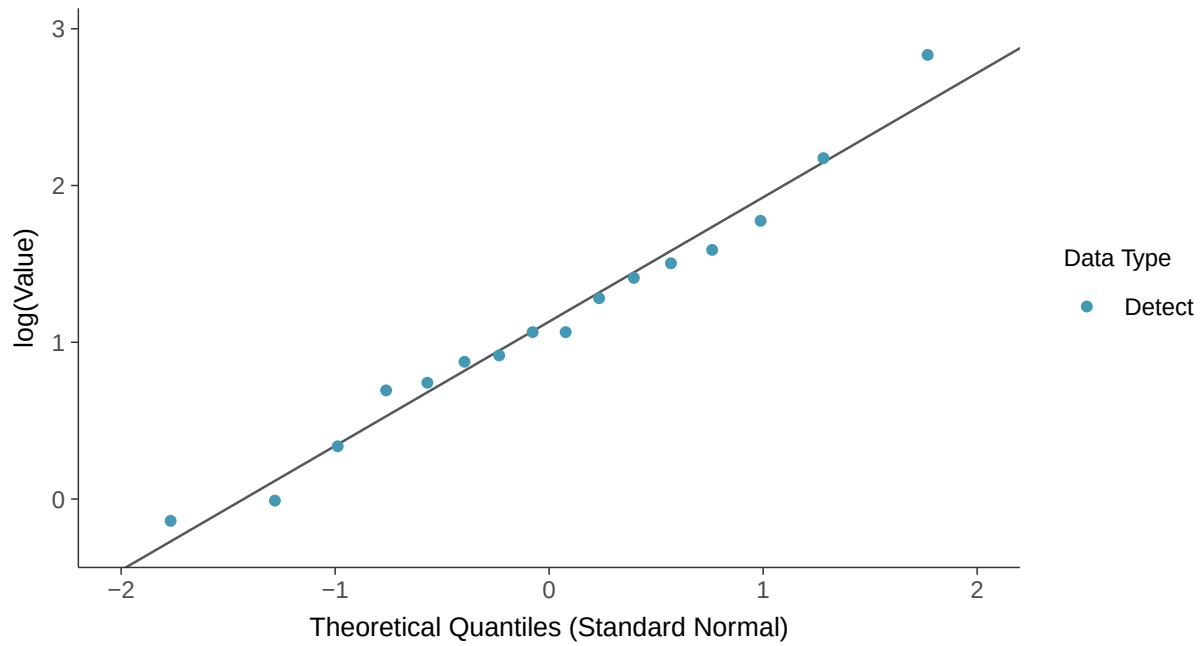
ID: 40_1_5_114





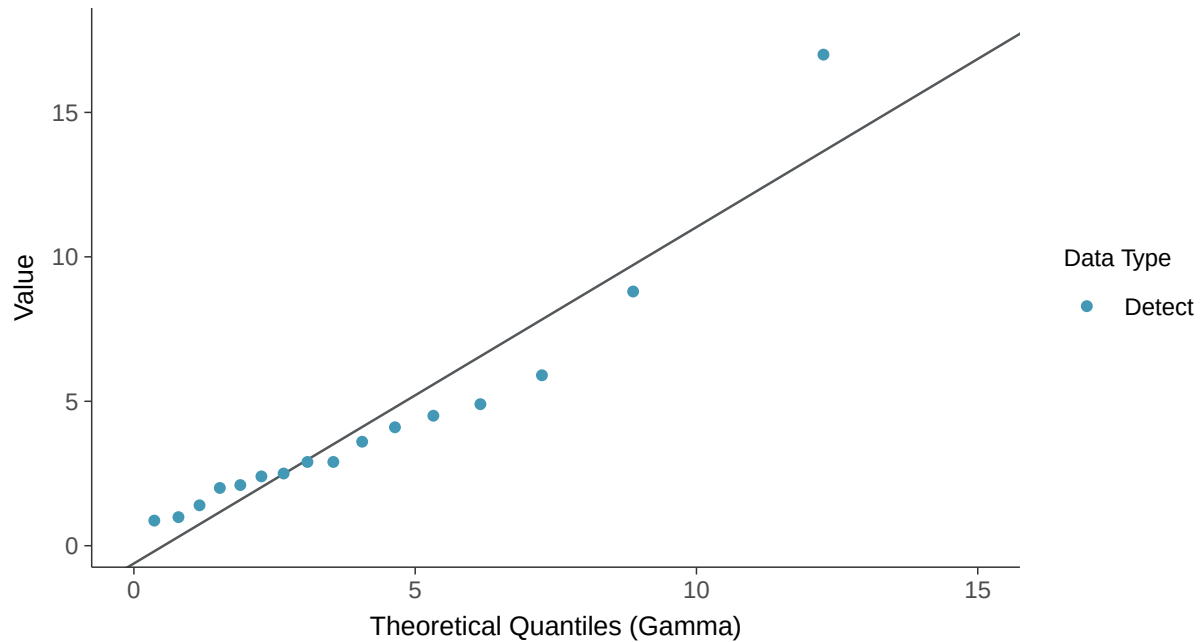
Lognormal Q-Q plot

Iron, MW-30 (mg/L)



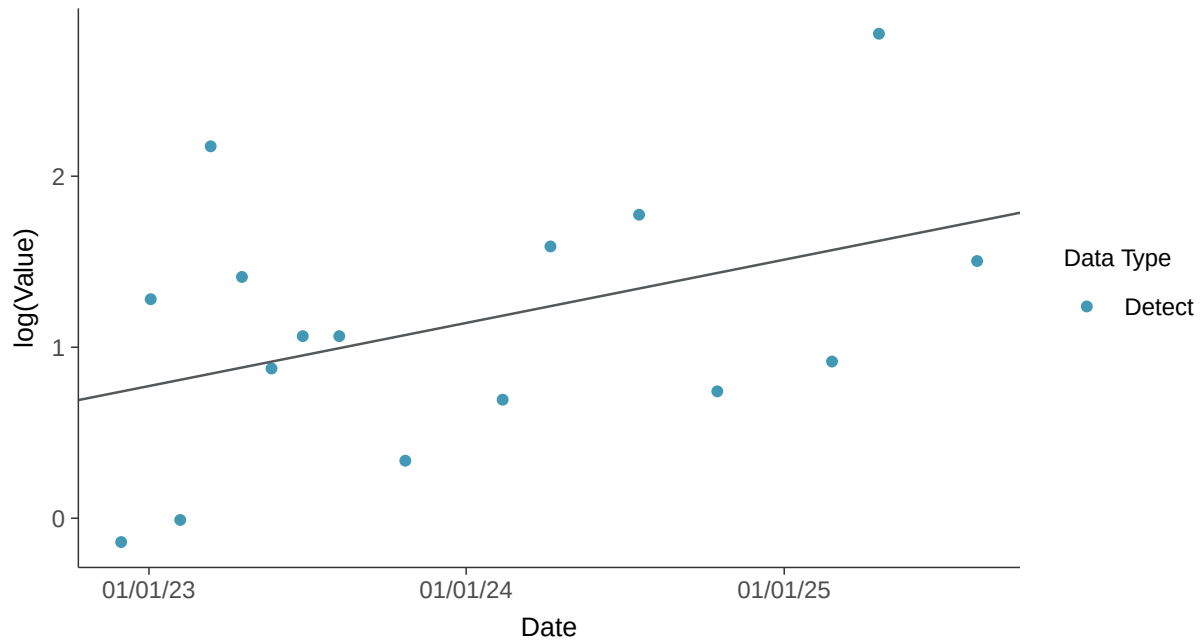
Gamma Q-Q plot

Iron, MW-30 (mg/L)



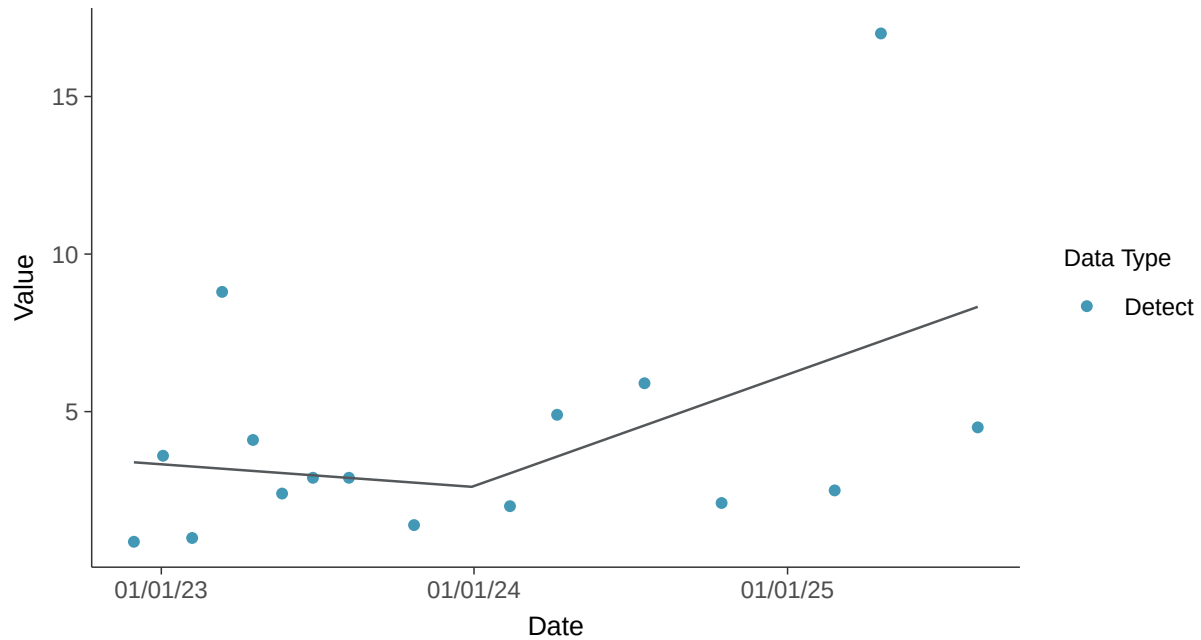
Trend Regression: Lognormal MLE

Iron, MW-30 (mg/L)



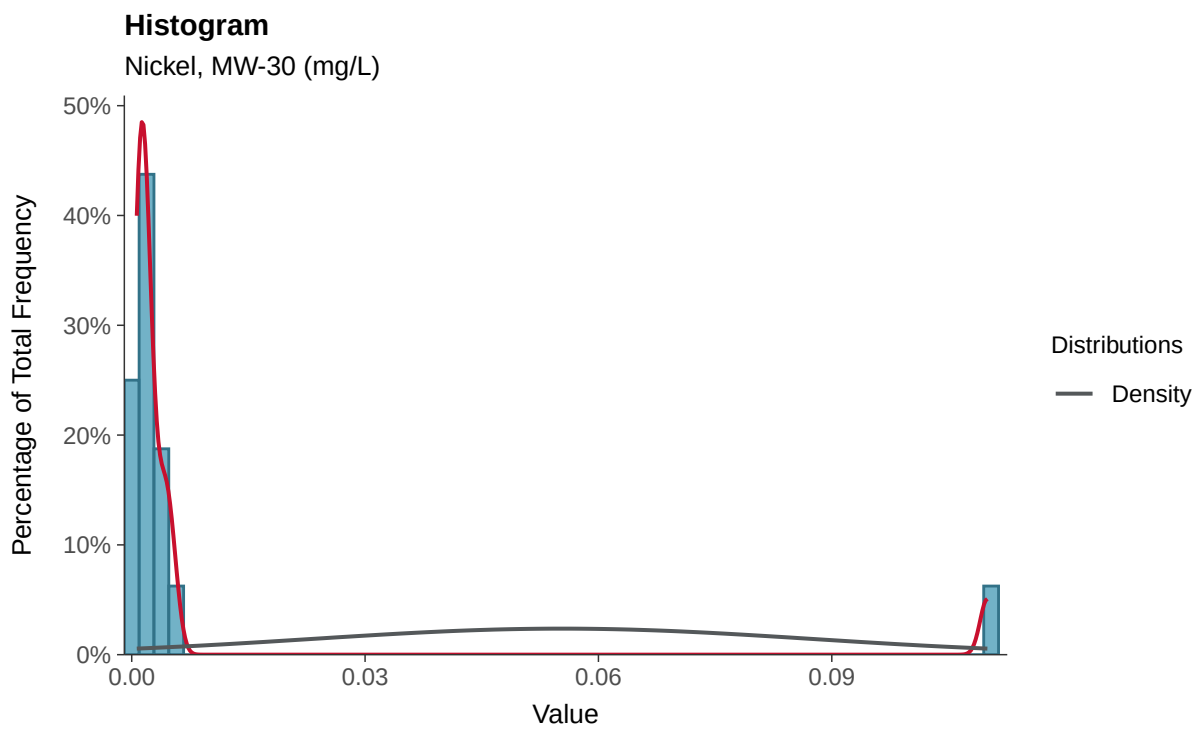
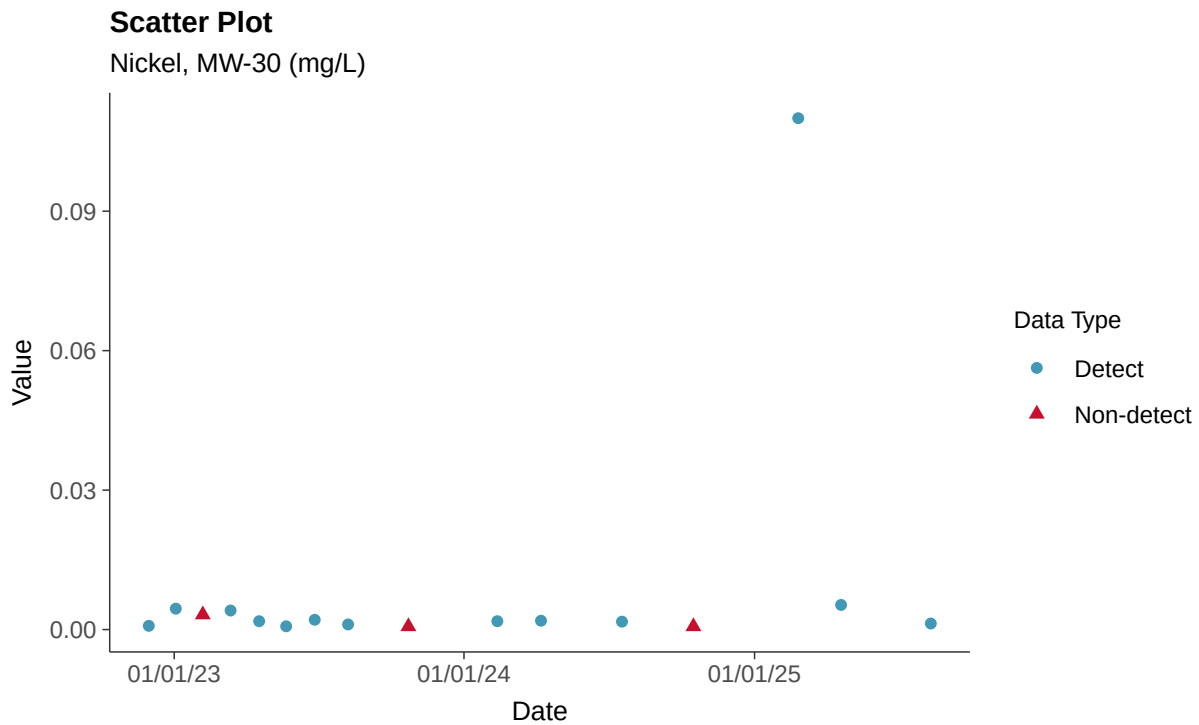
Trend Regression: Piecewise Linear-Linear

Iron, MW-30 (mg/L)



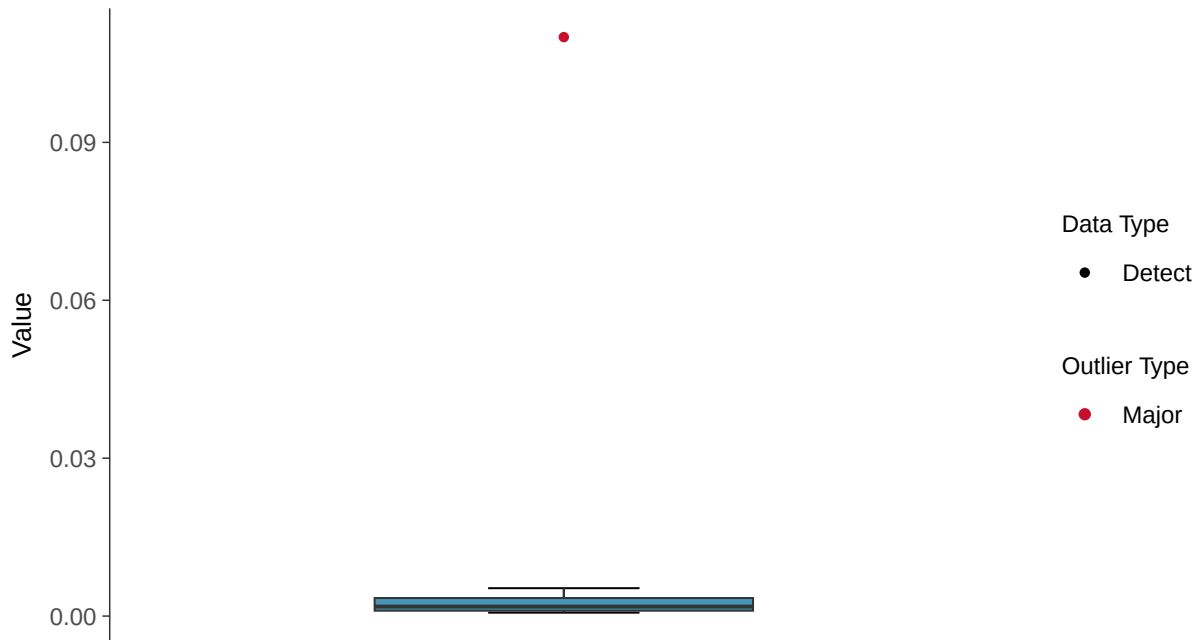
Part 115: Nickel, MW-30

ID: 40_1_5_119



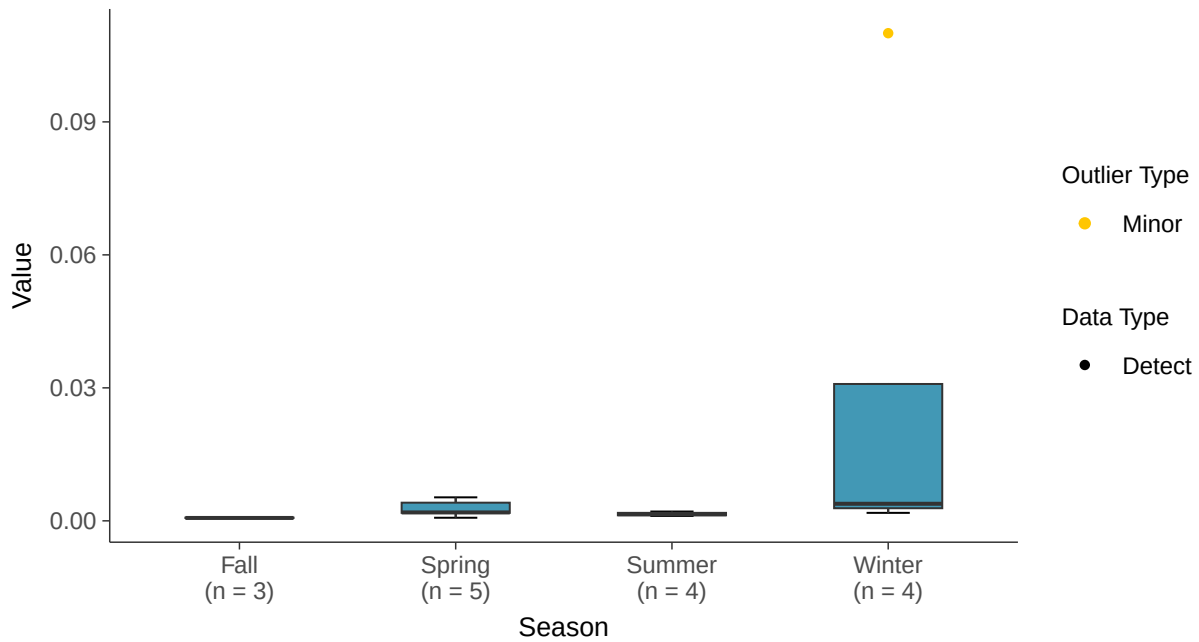
Boxplot

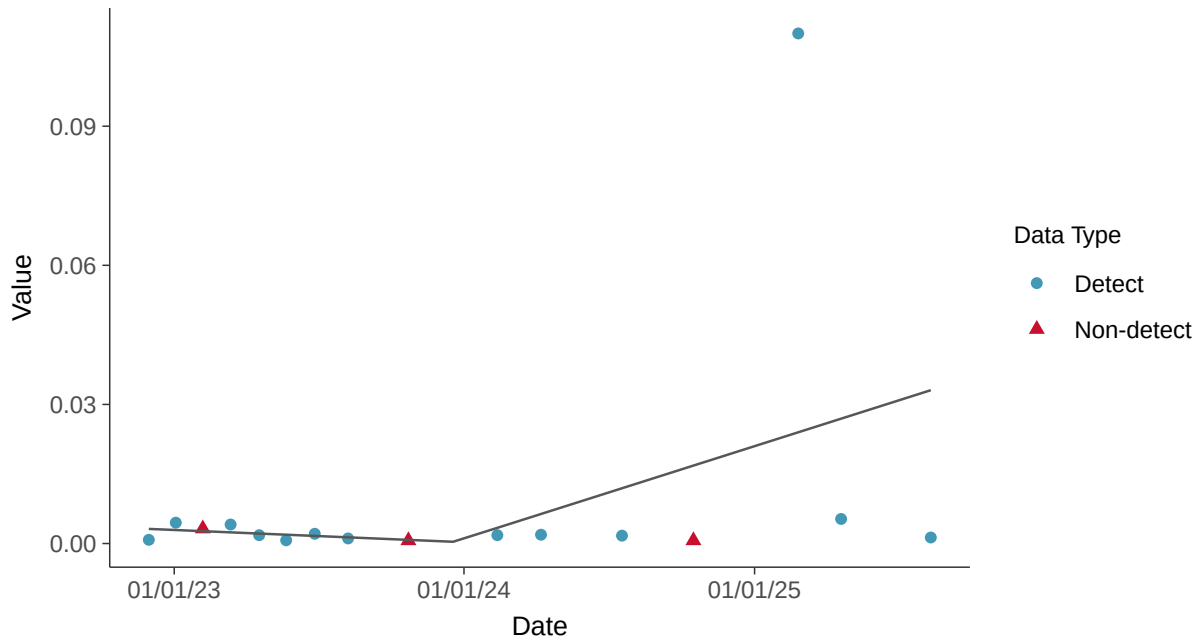
Nickel, MW-30 (mg/L)



Boxplot by Season

Nickel, MW-30 (mg/L)

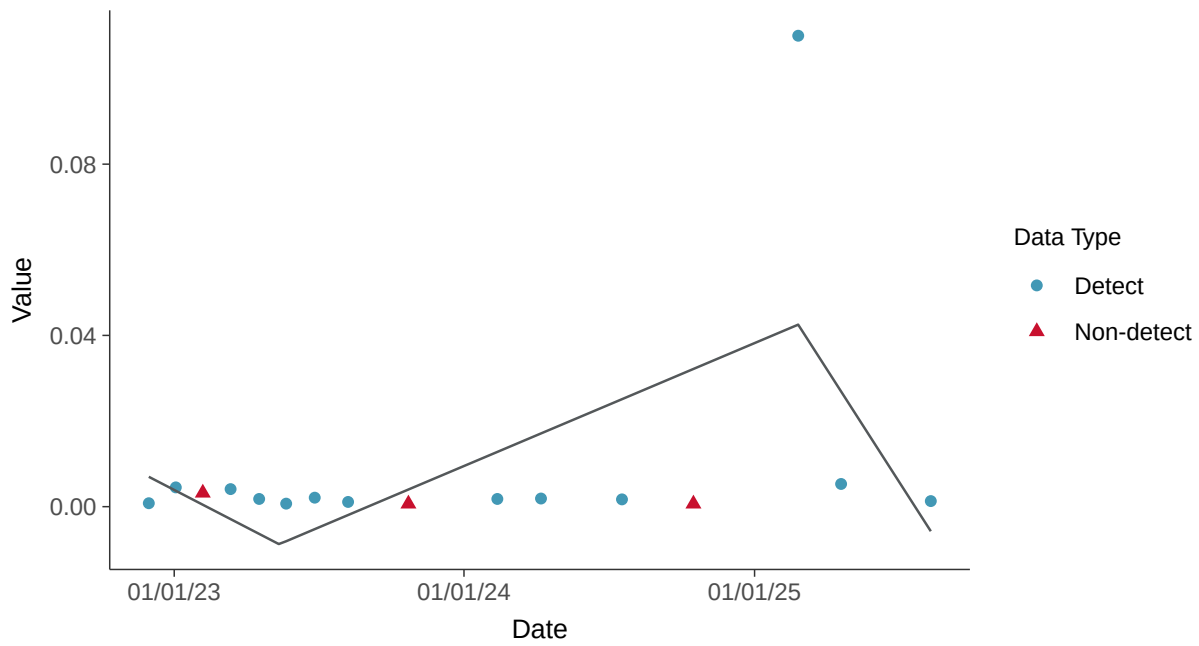


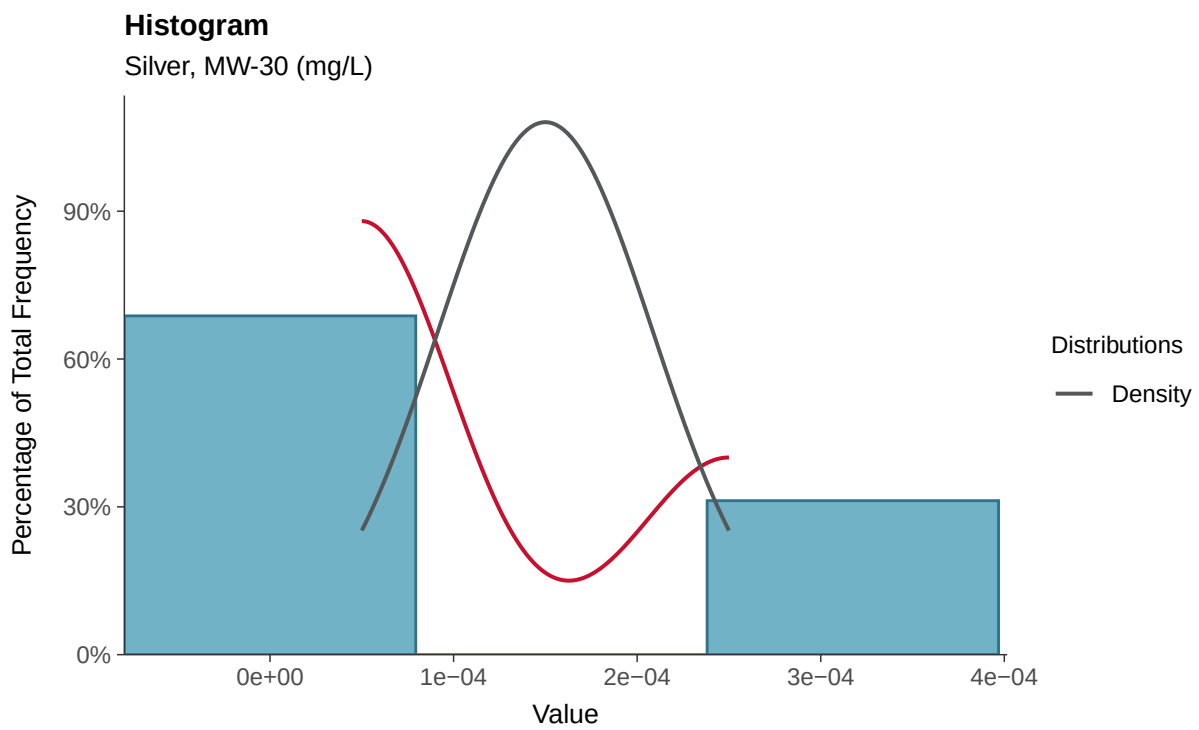




Trend Regression: Piecewise Linear-Linear-Linear

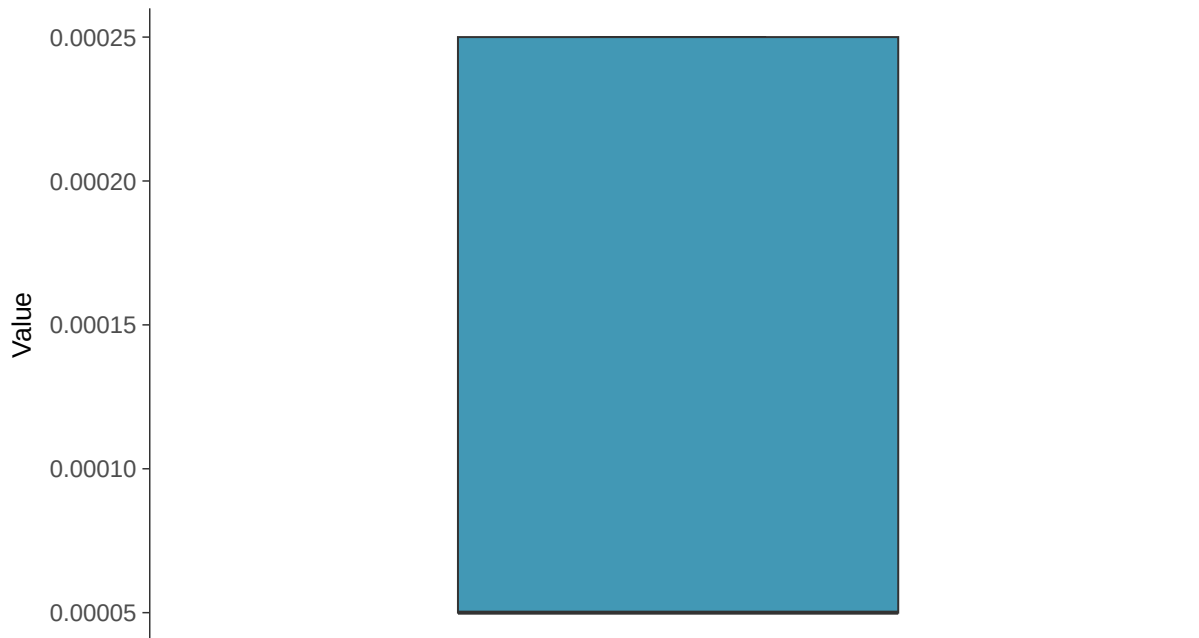
Nickel, MW-30 (mg/L)





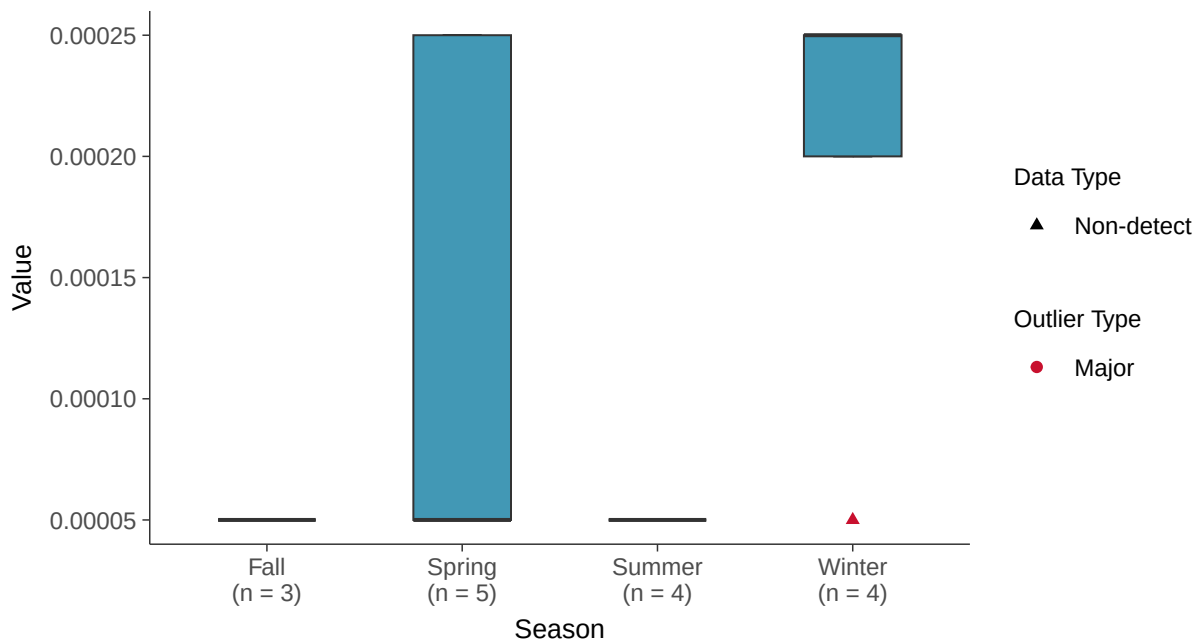
Boxplot

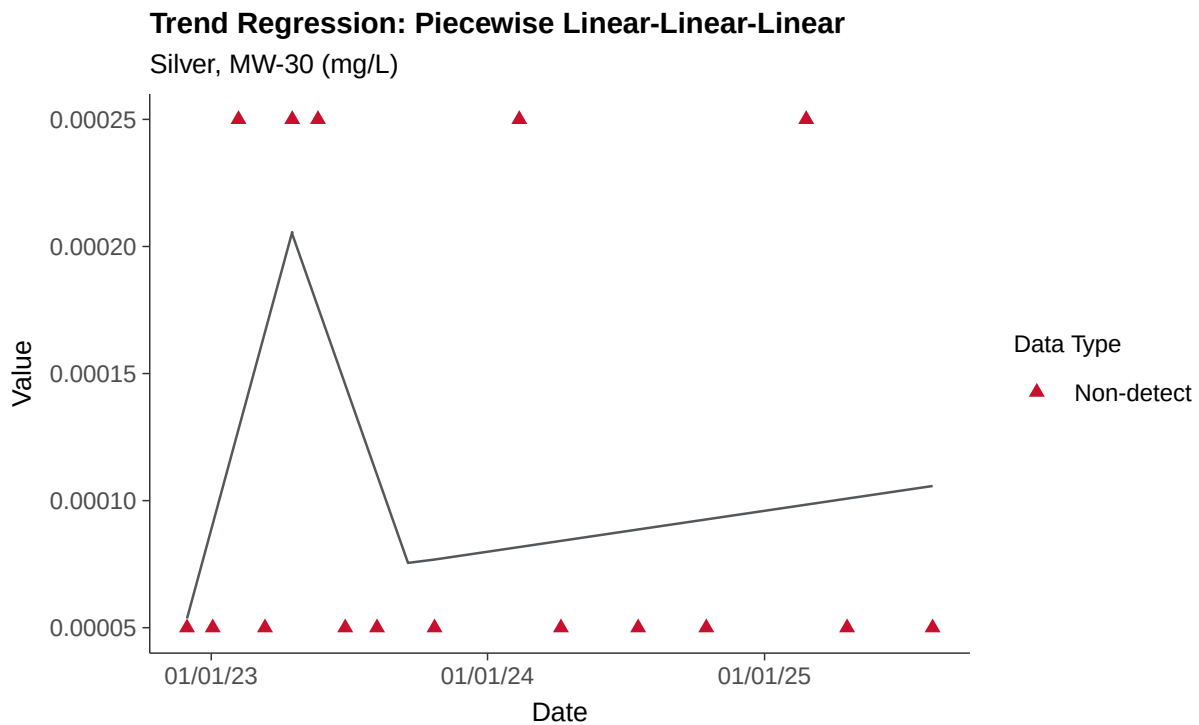
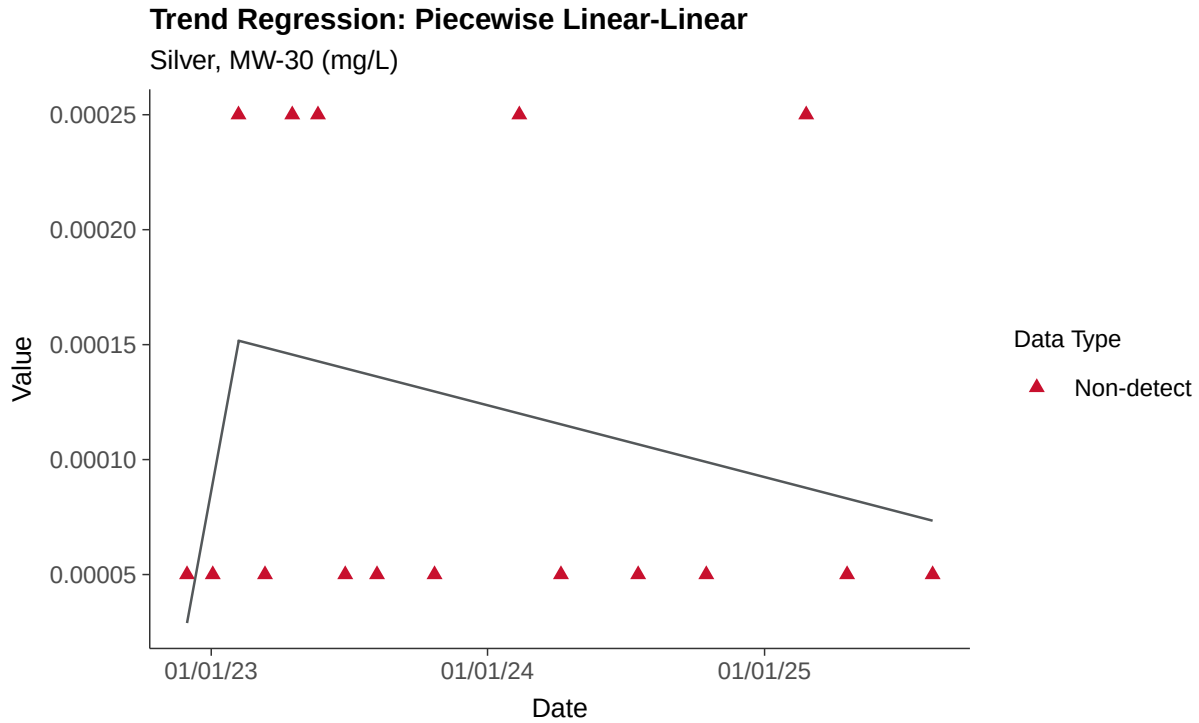
Silver, MW-30 (mg/L)



Boxplot by Season

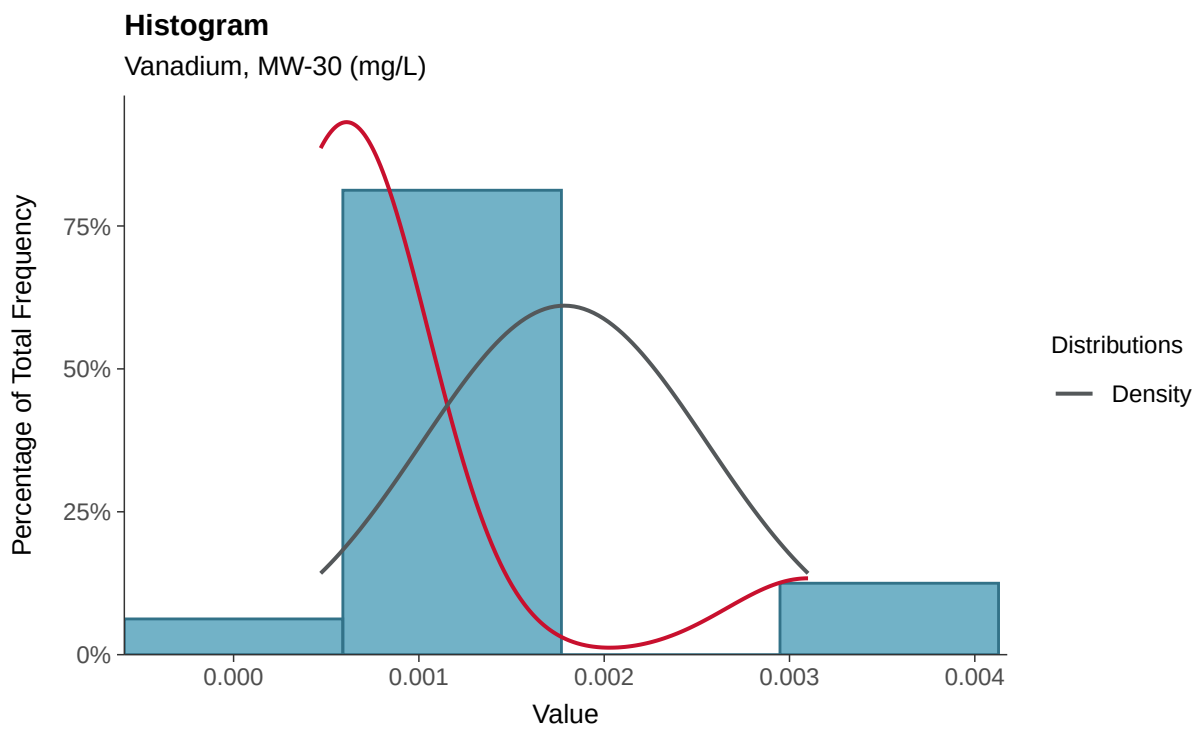
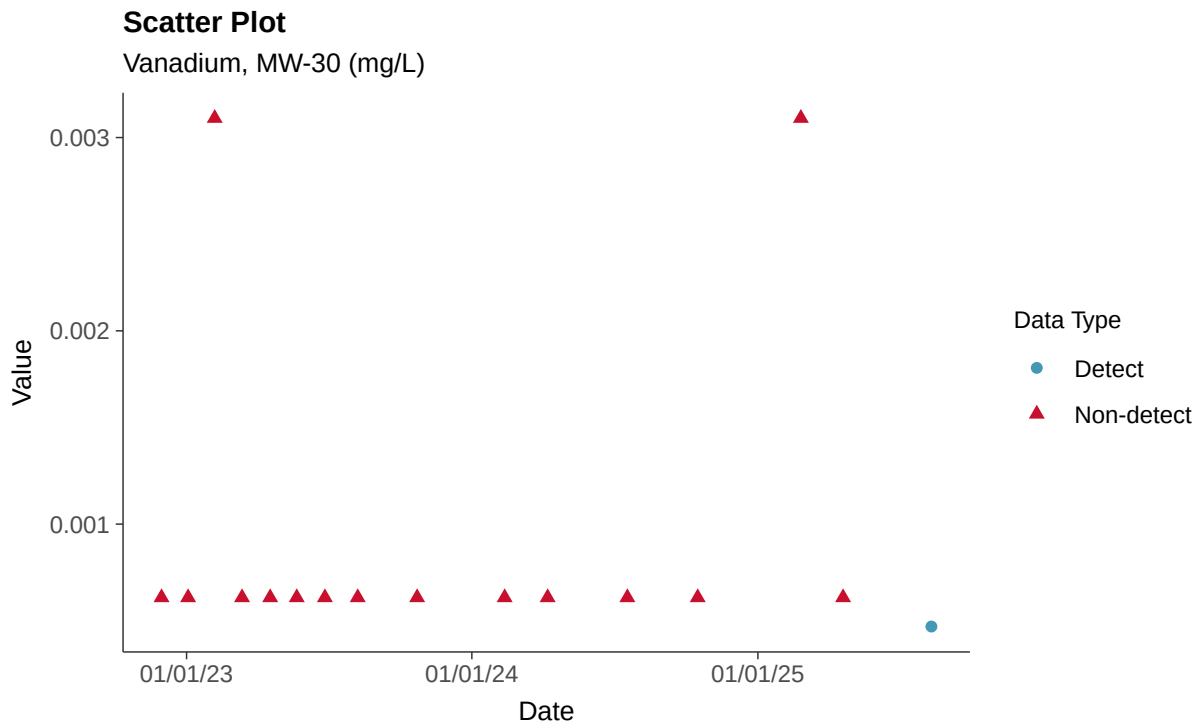
Silver, MW-30 (mg/L)





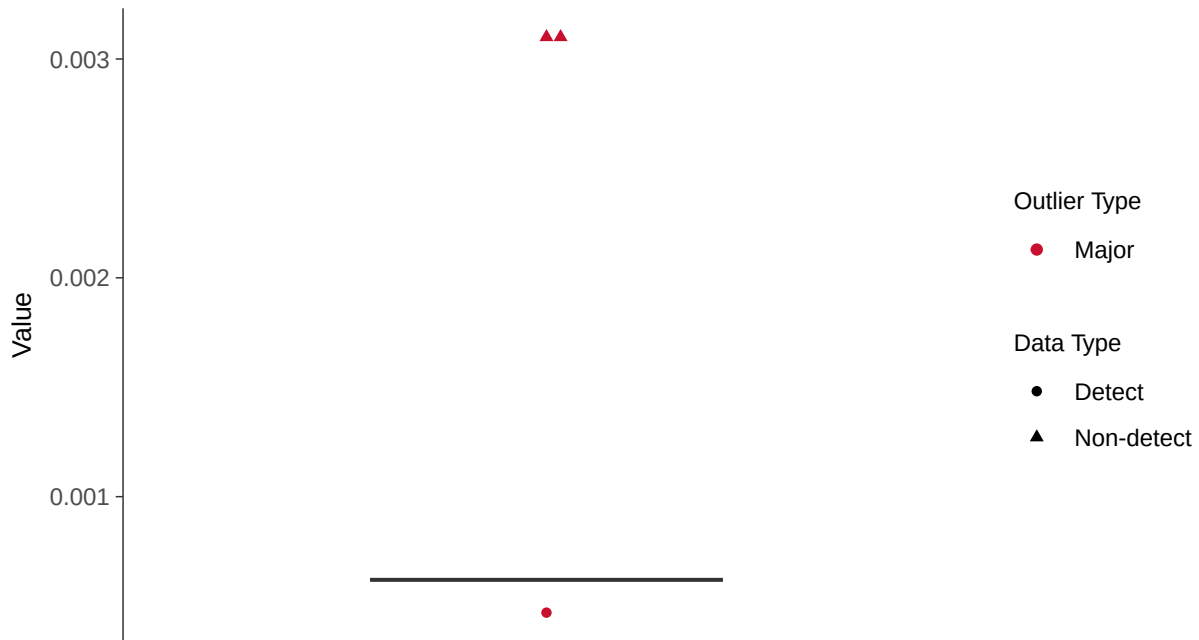
Part 115: Vanadium, MW-30

ID: 40_1_5_128



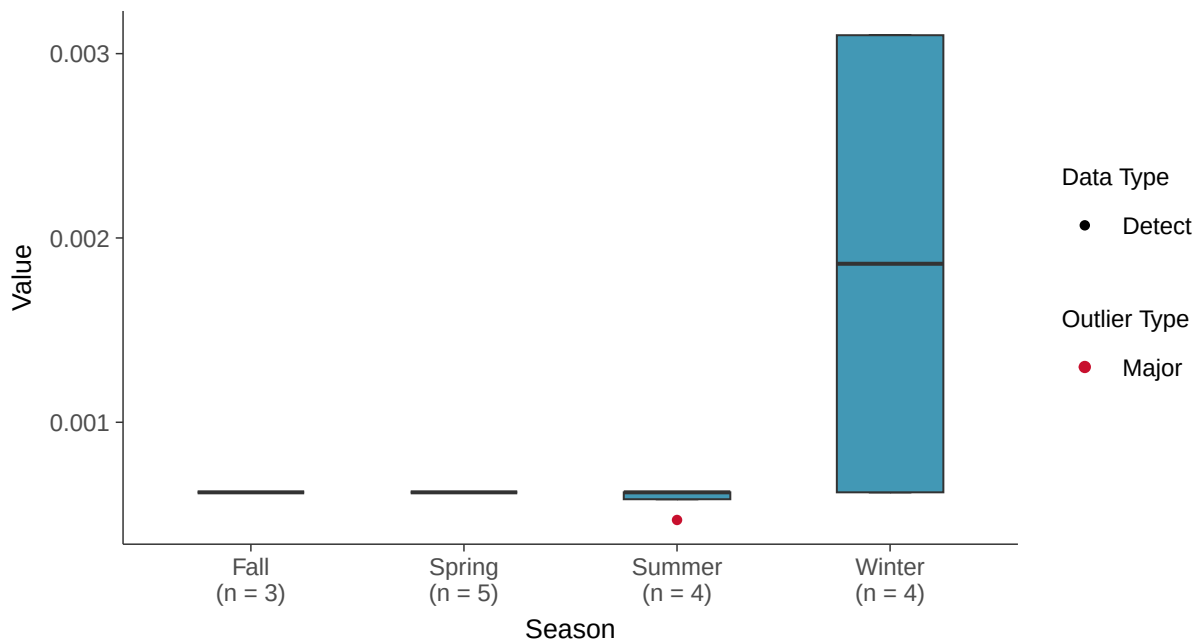
Boxplot

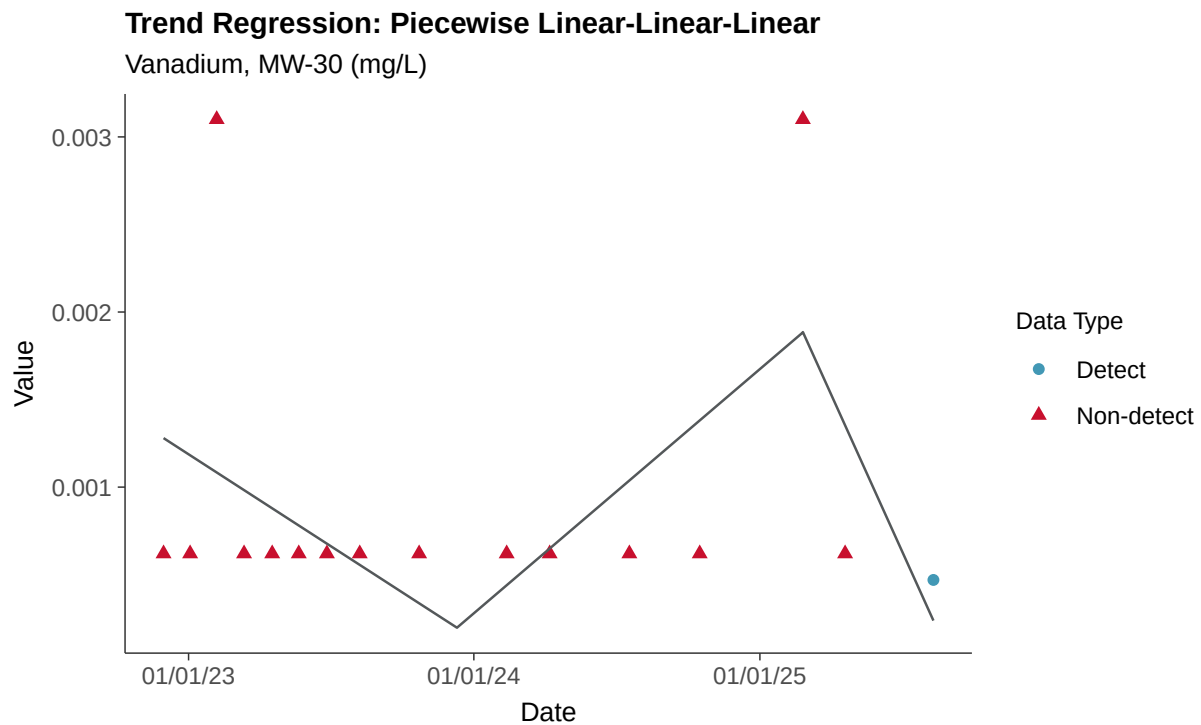
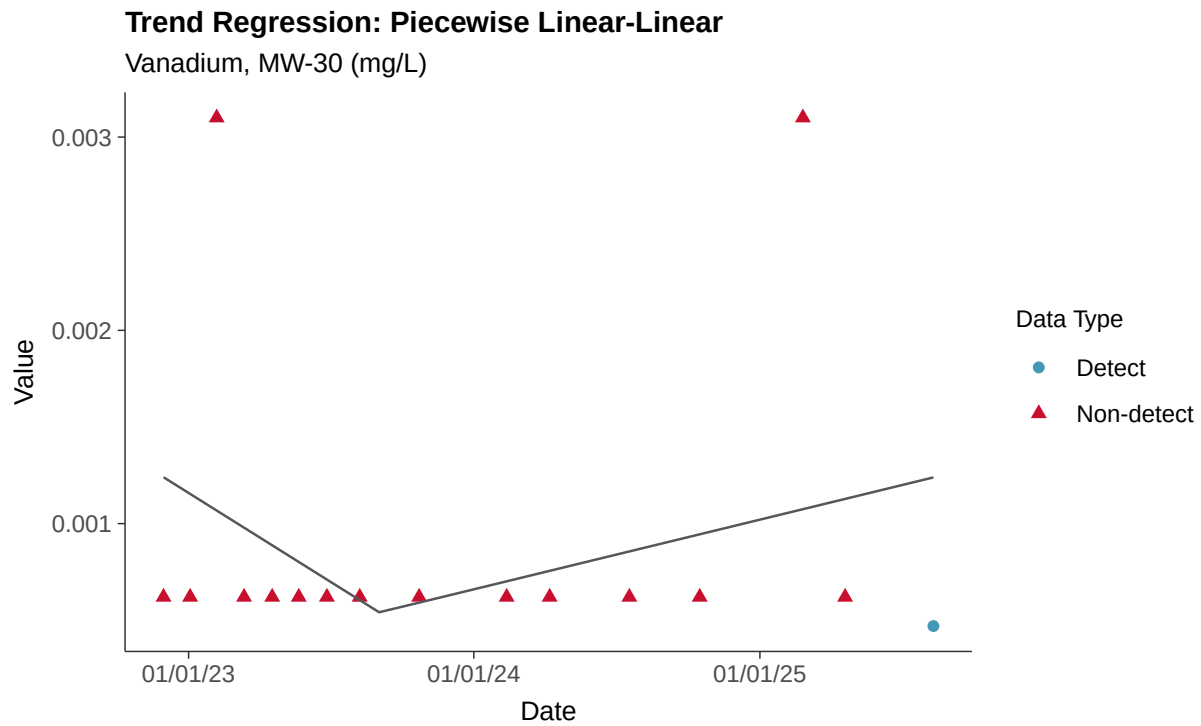
Vanadium, MW-30 (mg/L)

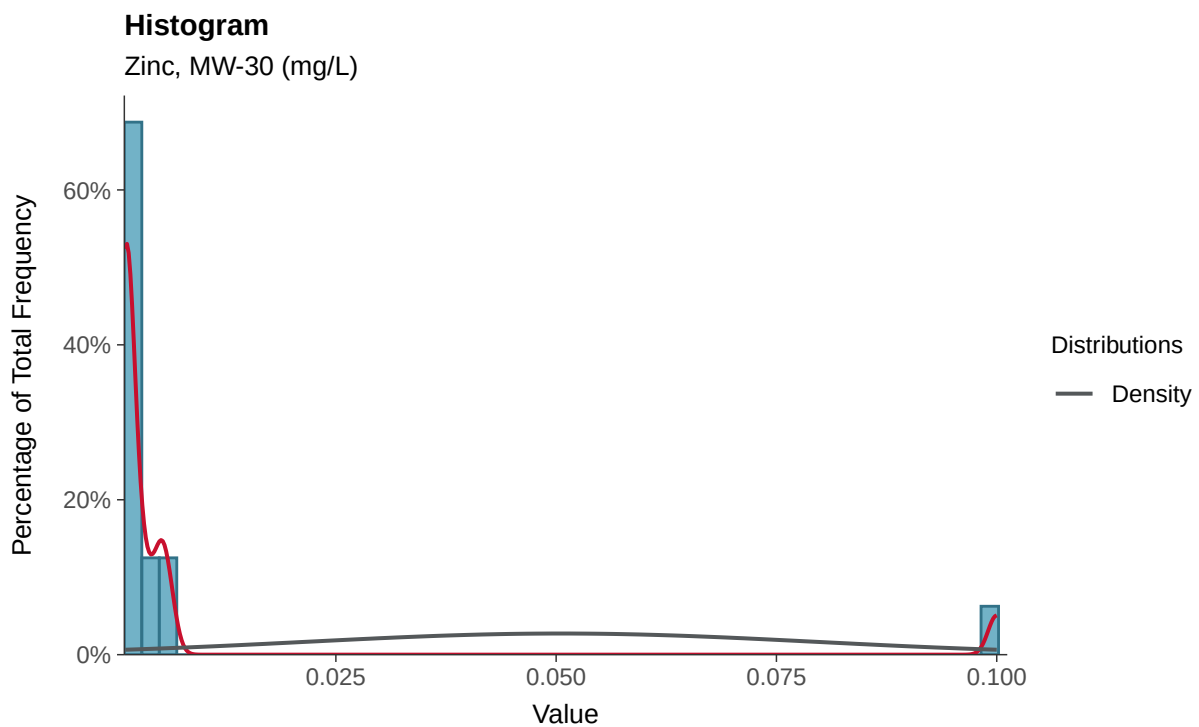


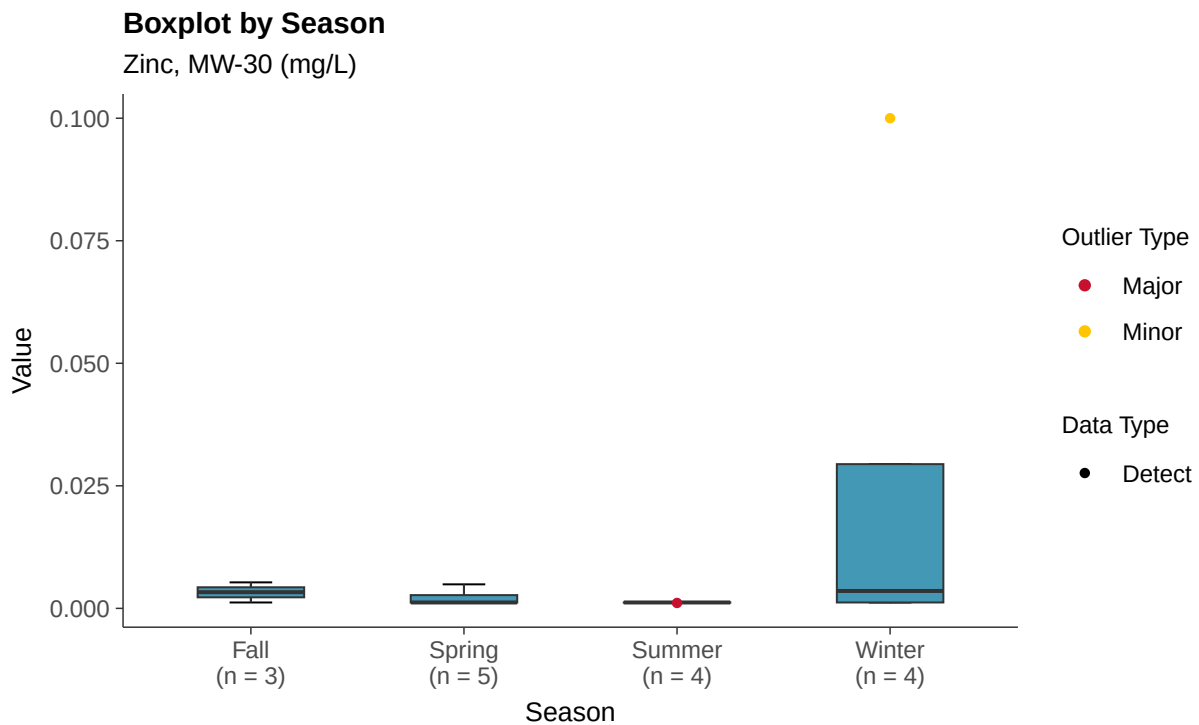
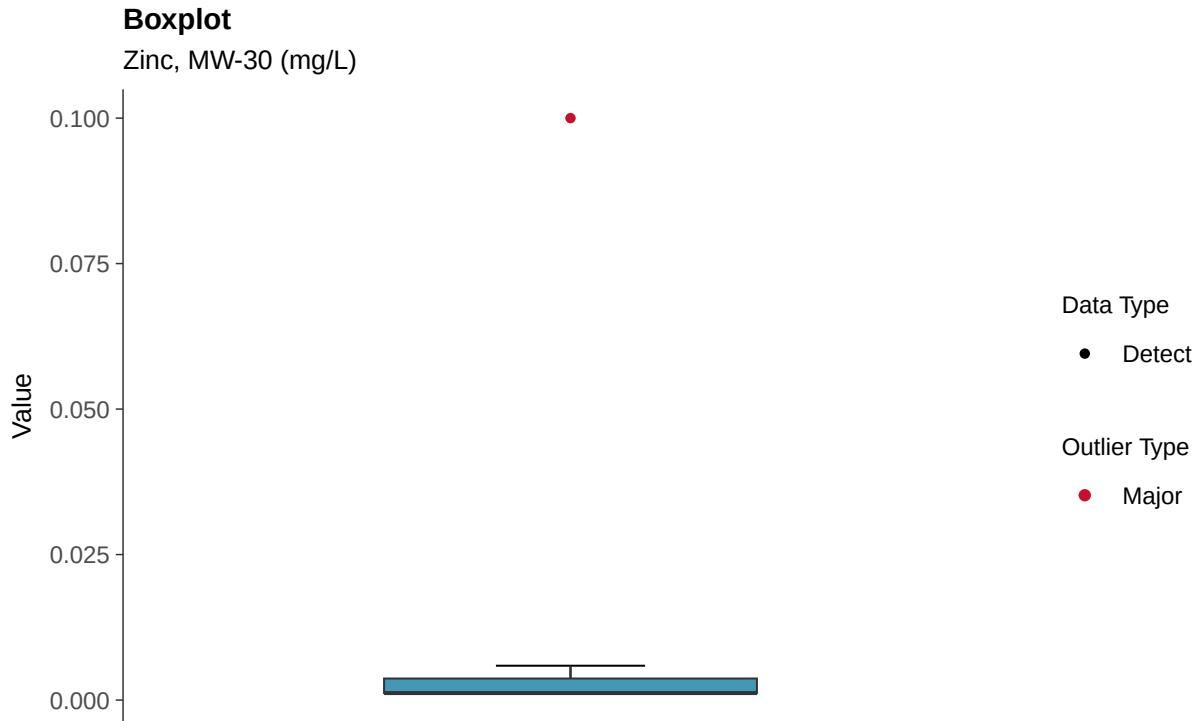
Boxplot by Season

Vanadium, MW-30 (mg/L)





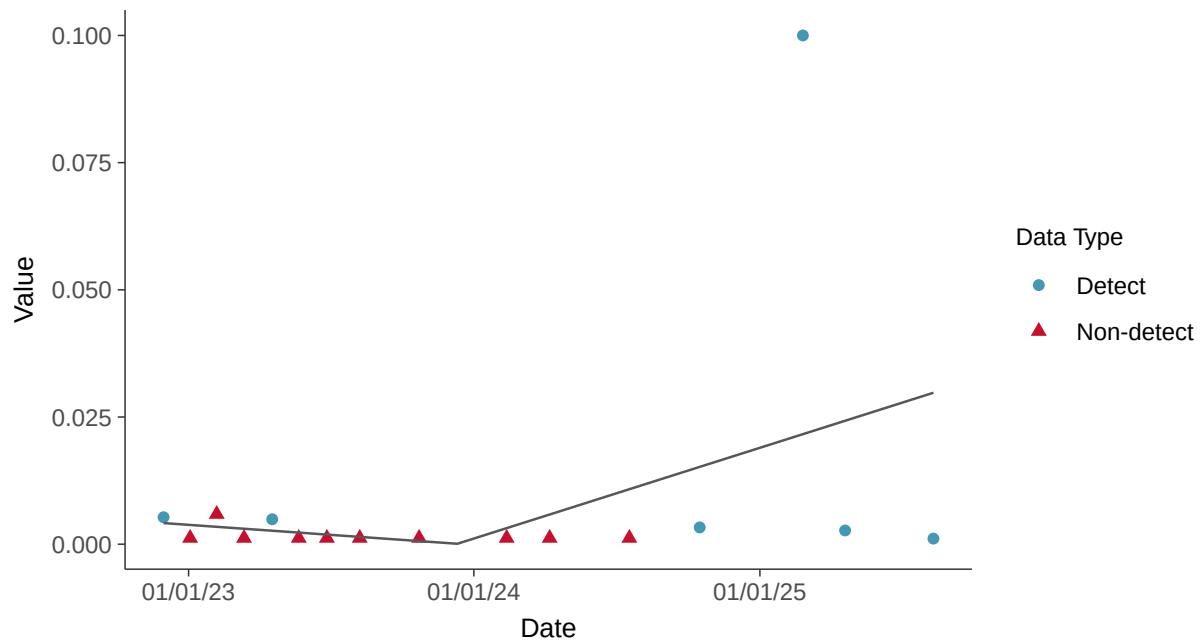




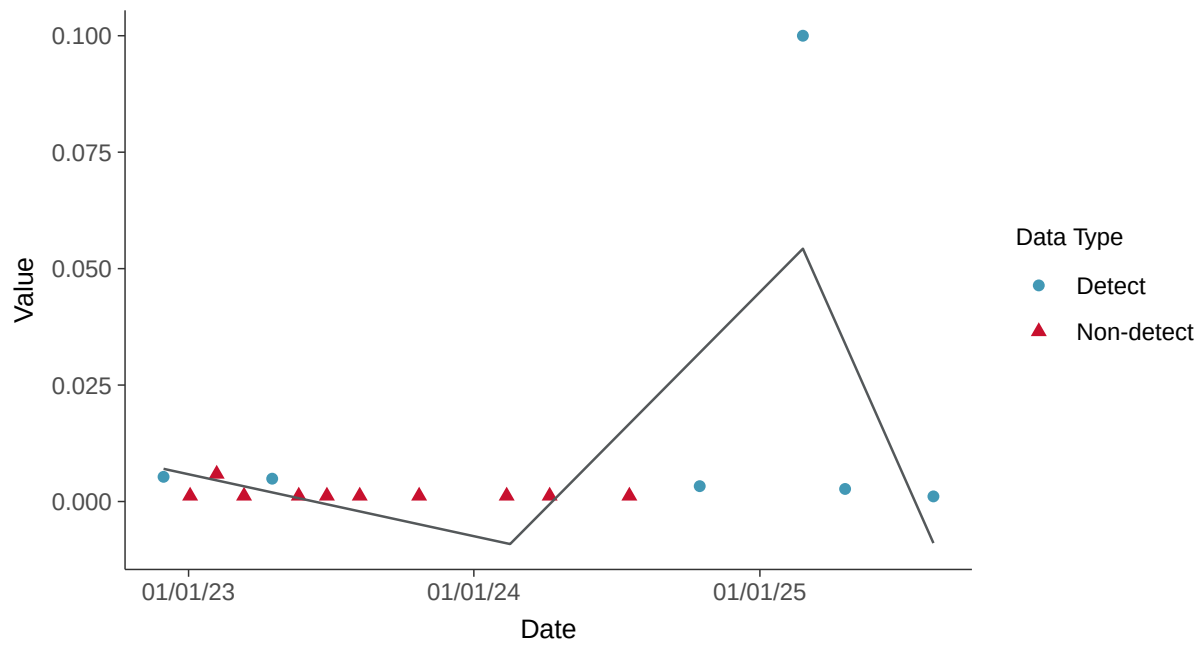
Zinc, MW-30 (mg/L)



Zinc, MW-30 (mg/L)

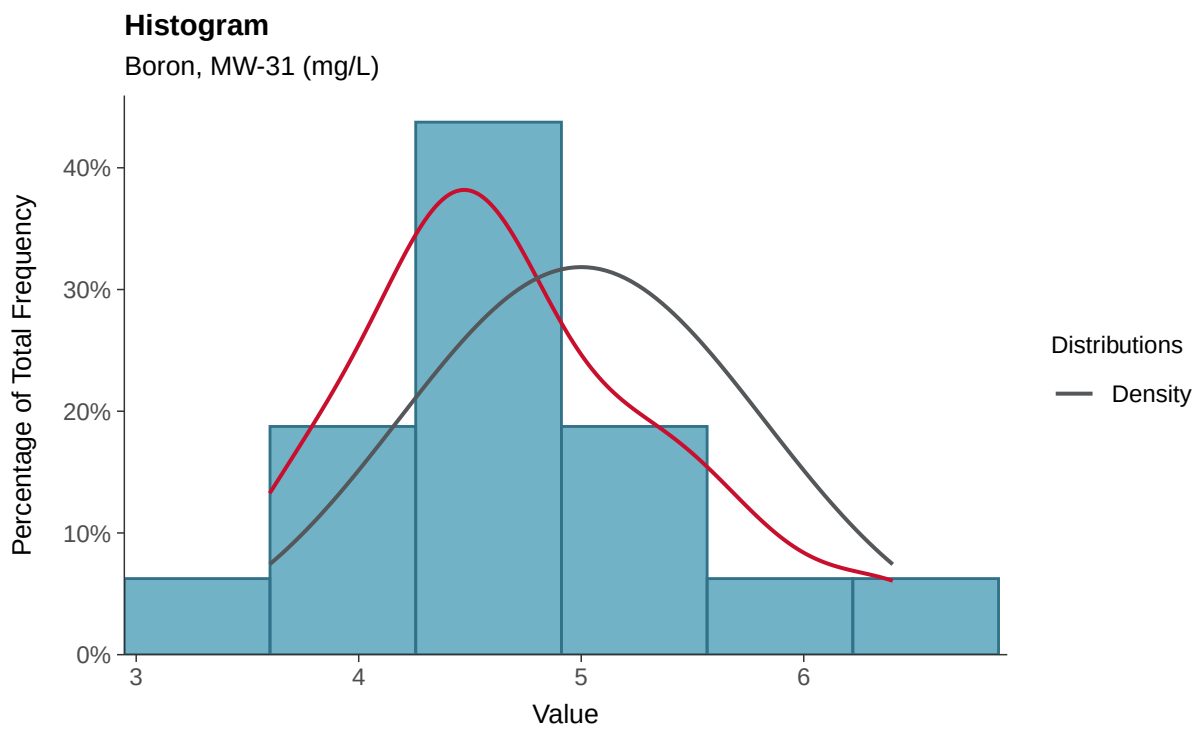
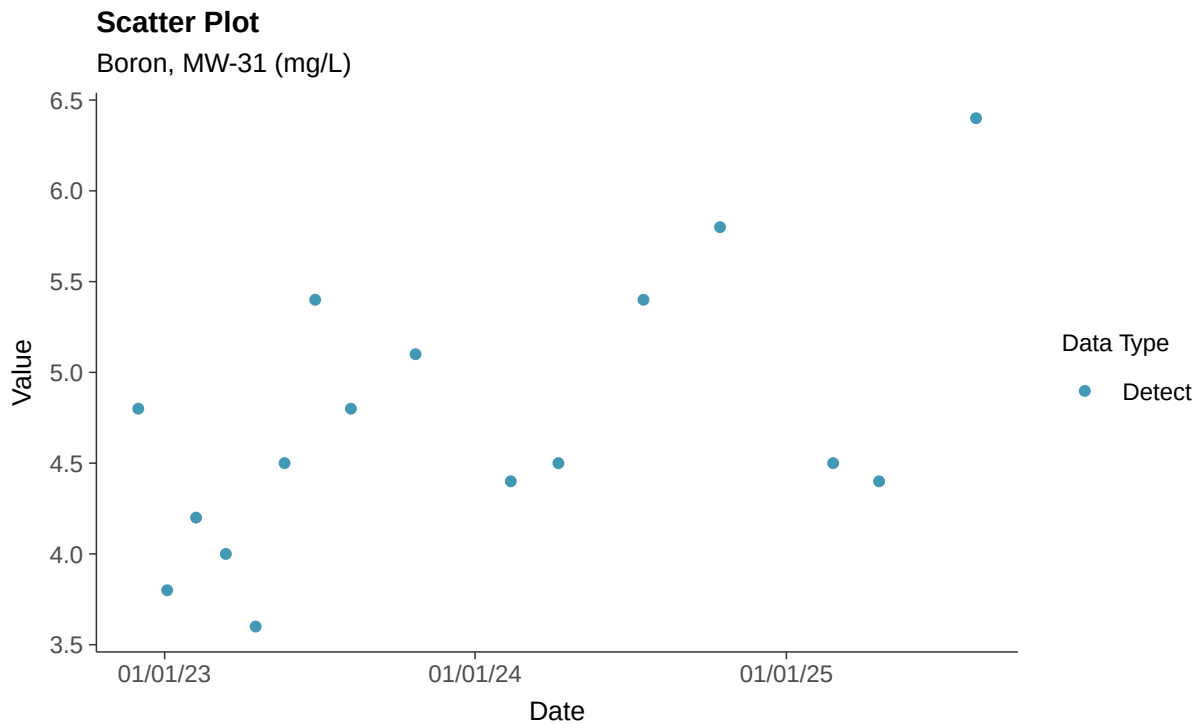


Zinc, MW-30 (mg/L)



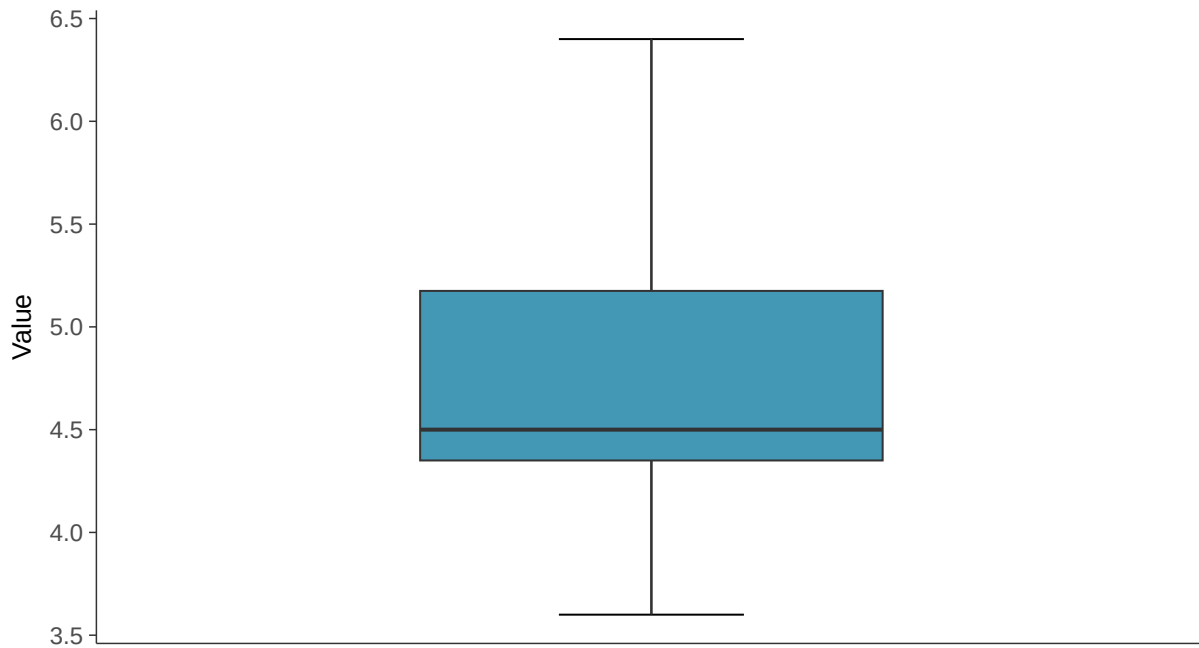
Appendix III: Boron, MW-31

ID: 41_1_3_105



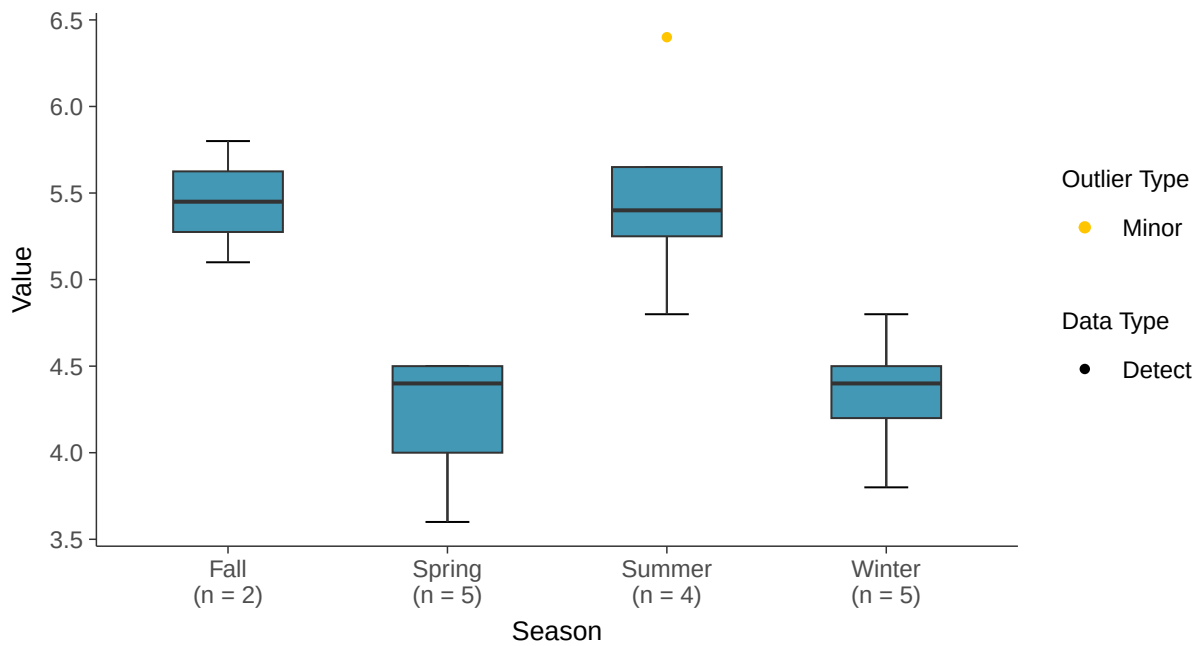
Boxplot

Boron, MW-31 (mg/L)



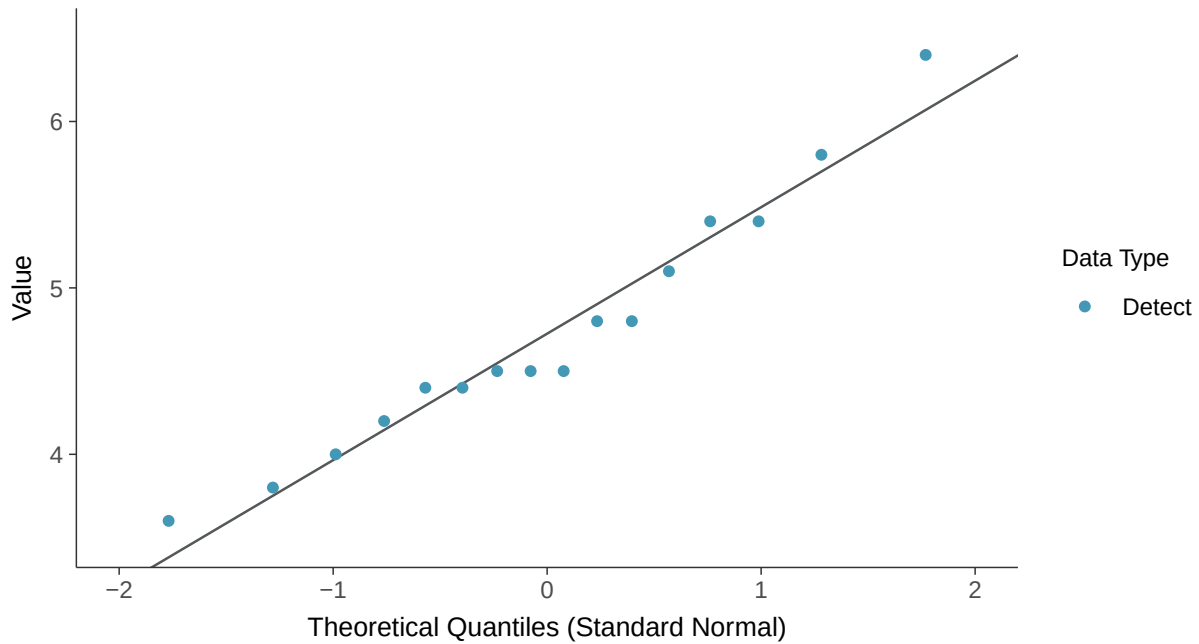
Boxplot by Season

Boron, MW-31 (mg/L)



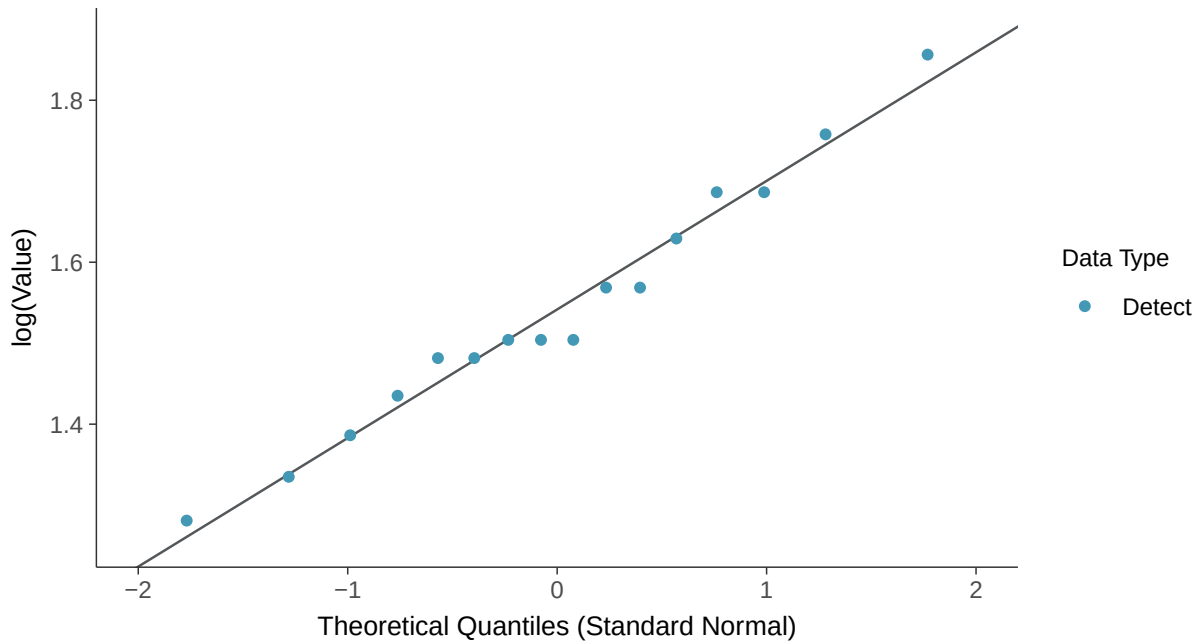
Normal Q-Q plot

Boron, MW-31 (mg/L)



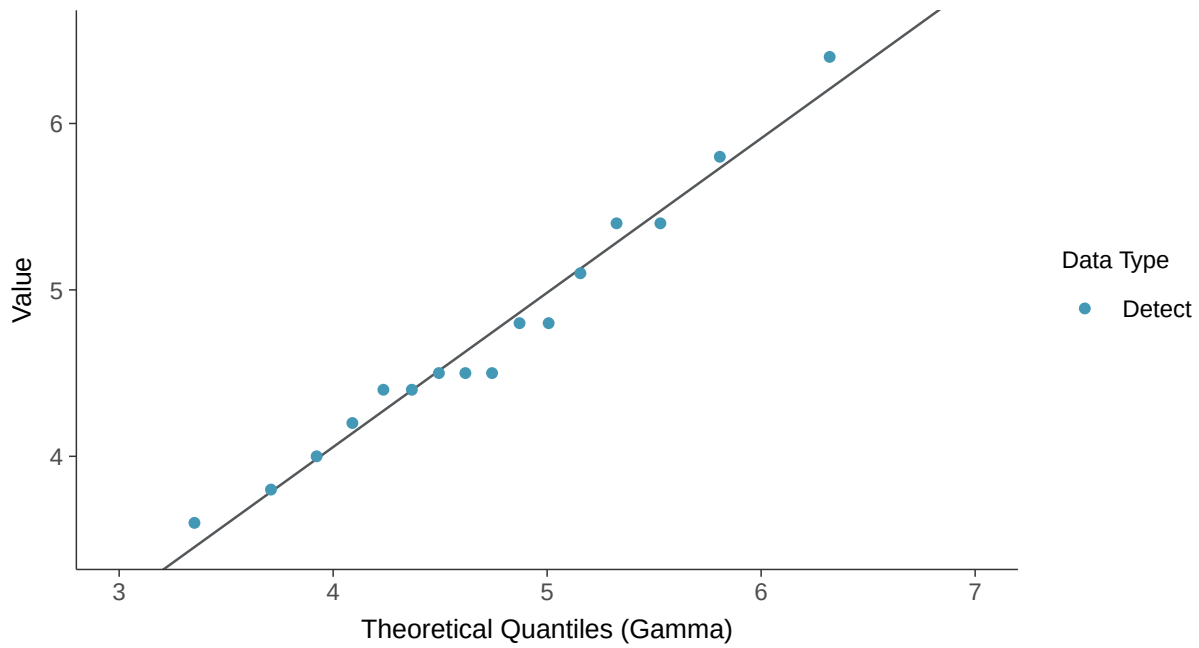
Lognormal Q-Q plot

Boron, MW-31 (mg/L)



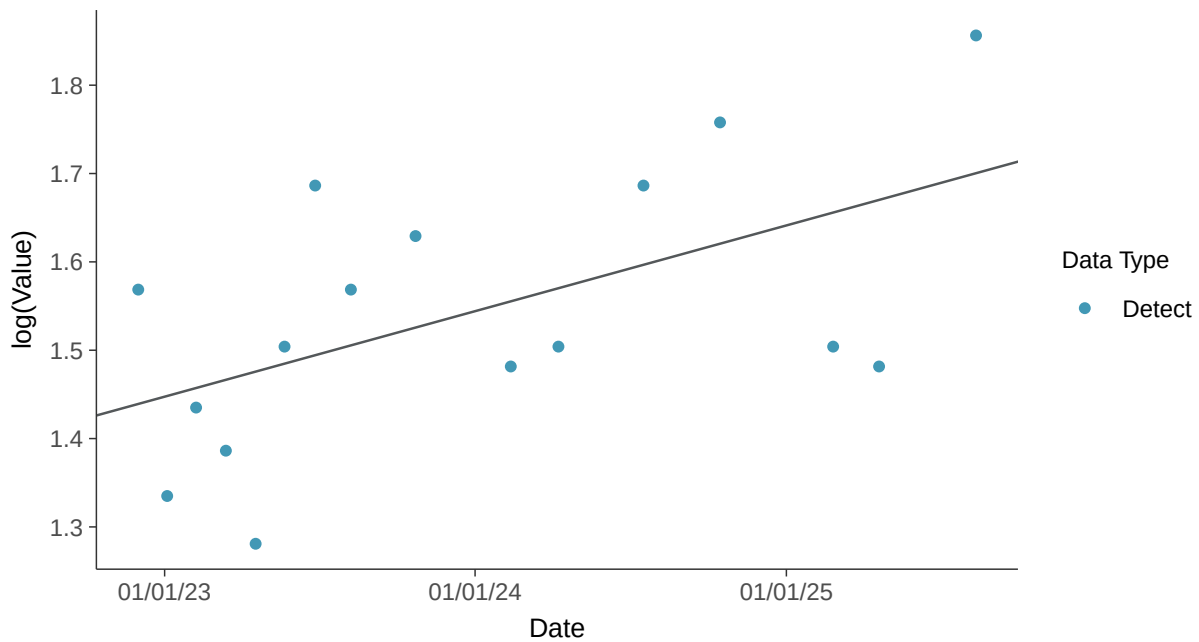
Gamma Q-Q plot

Boron, MW-31 (mg/L)



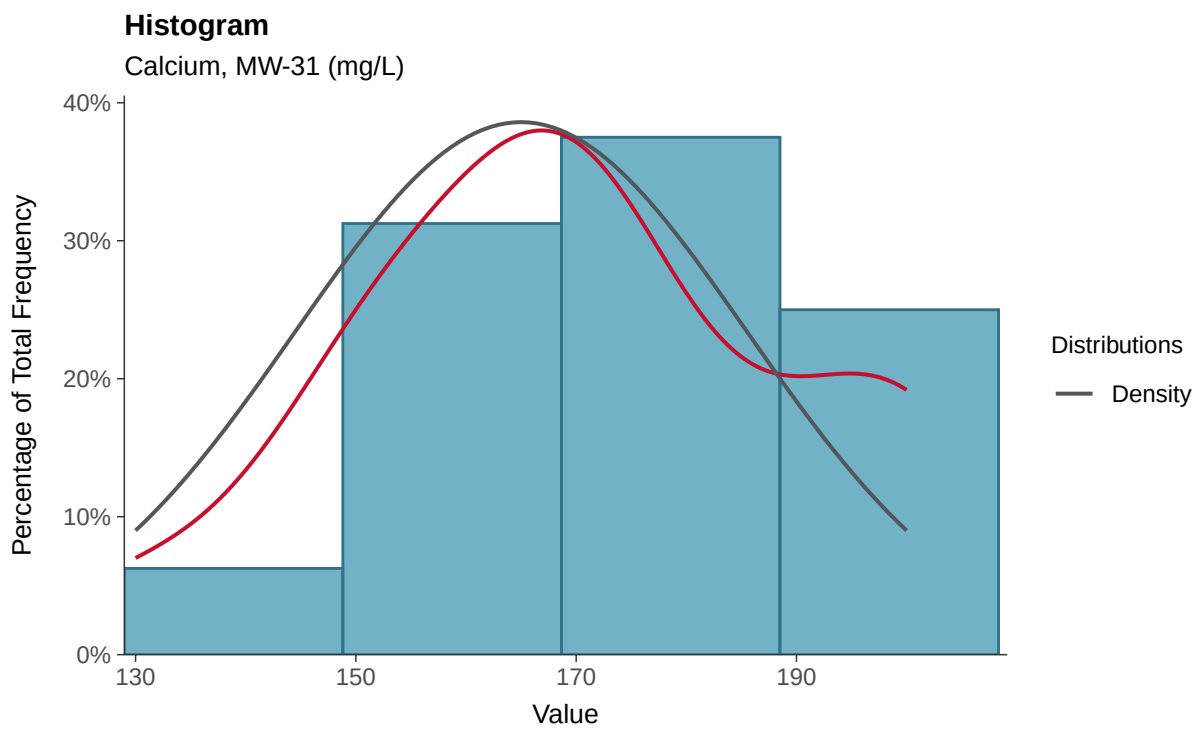
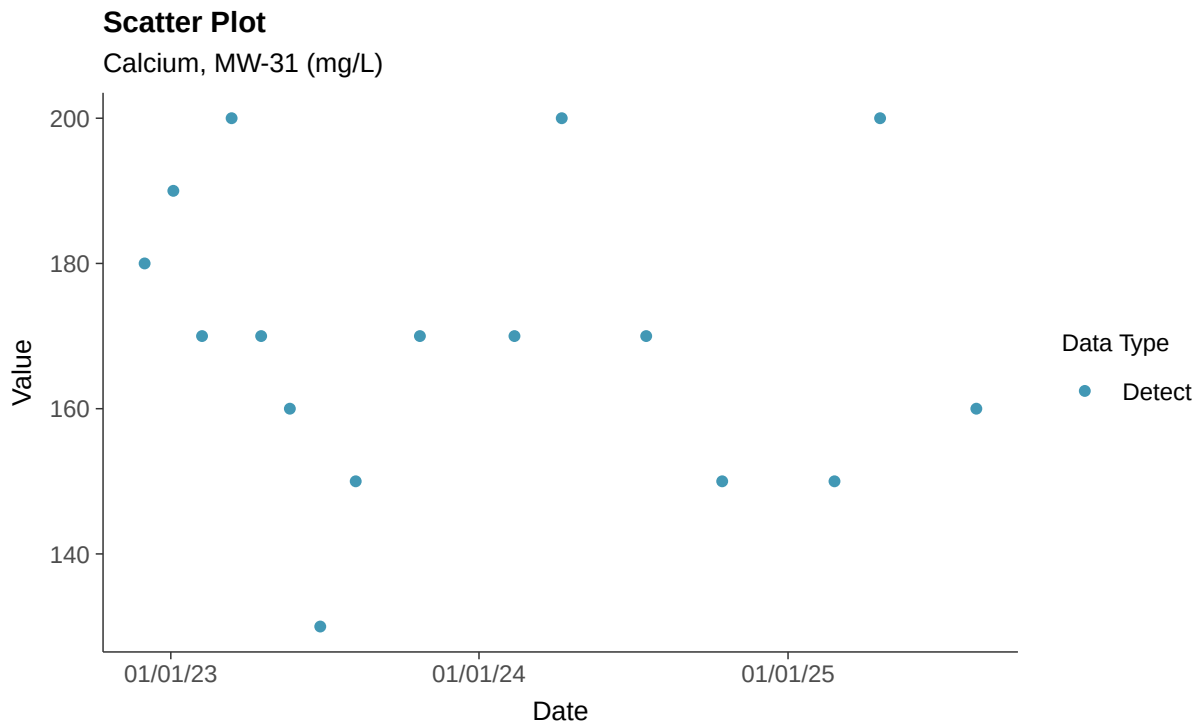
Trend Regression: Lognormal MLE

Boron, MW-31 (mg/L)



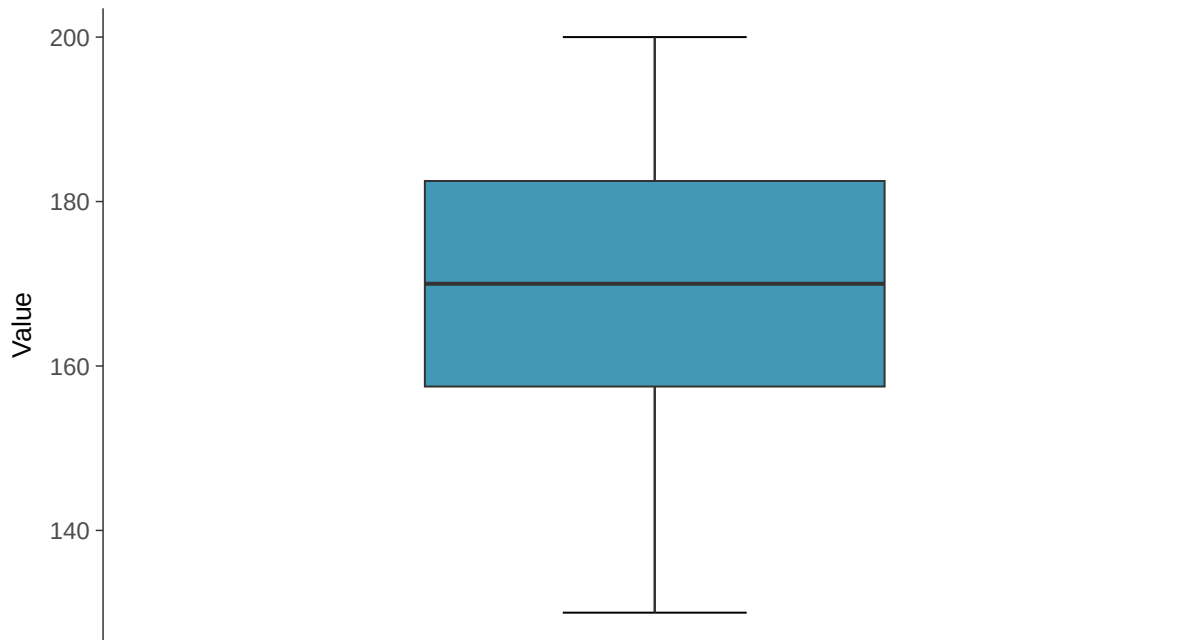
Appendix III: Calcium, MW-31

ID: 41_1_3_107



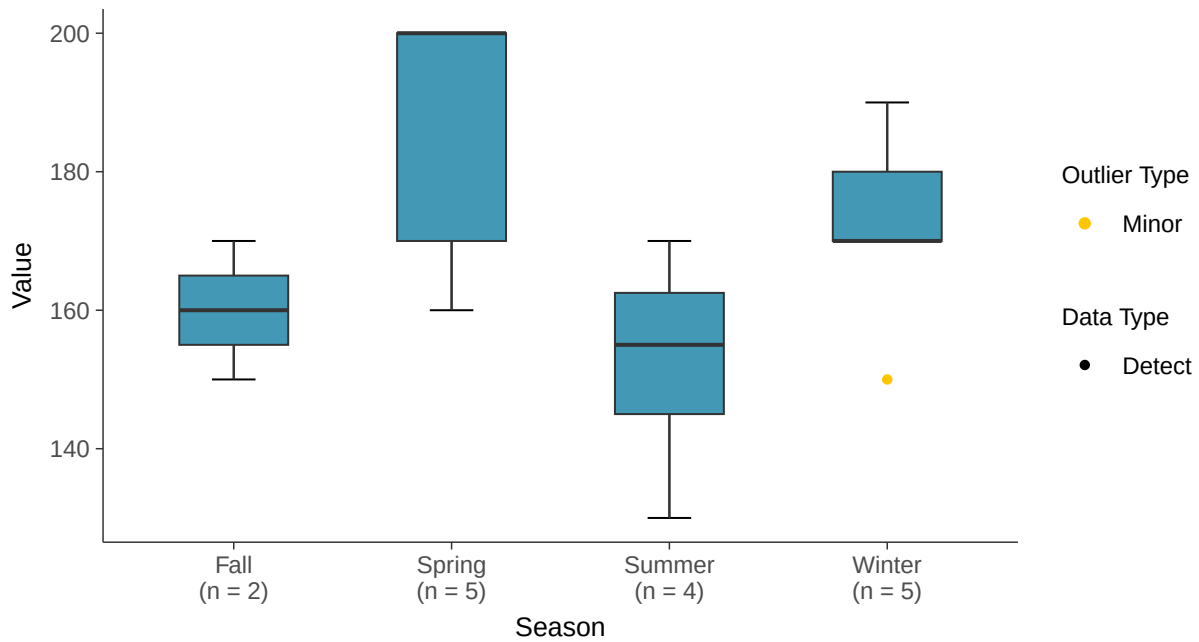
Boxplot

Calcium, MW-31 (mg/L)



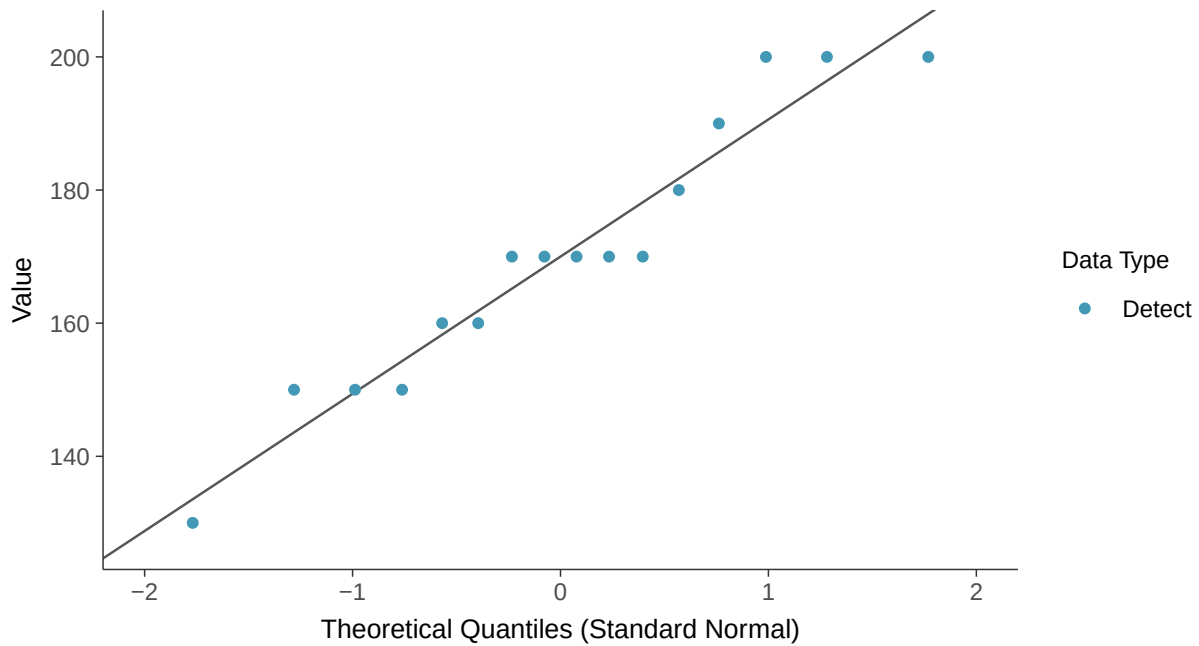
Boxplot by Season

Calcium, MW-31 (mg/L)



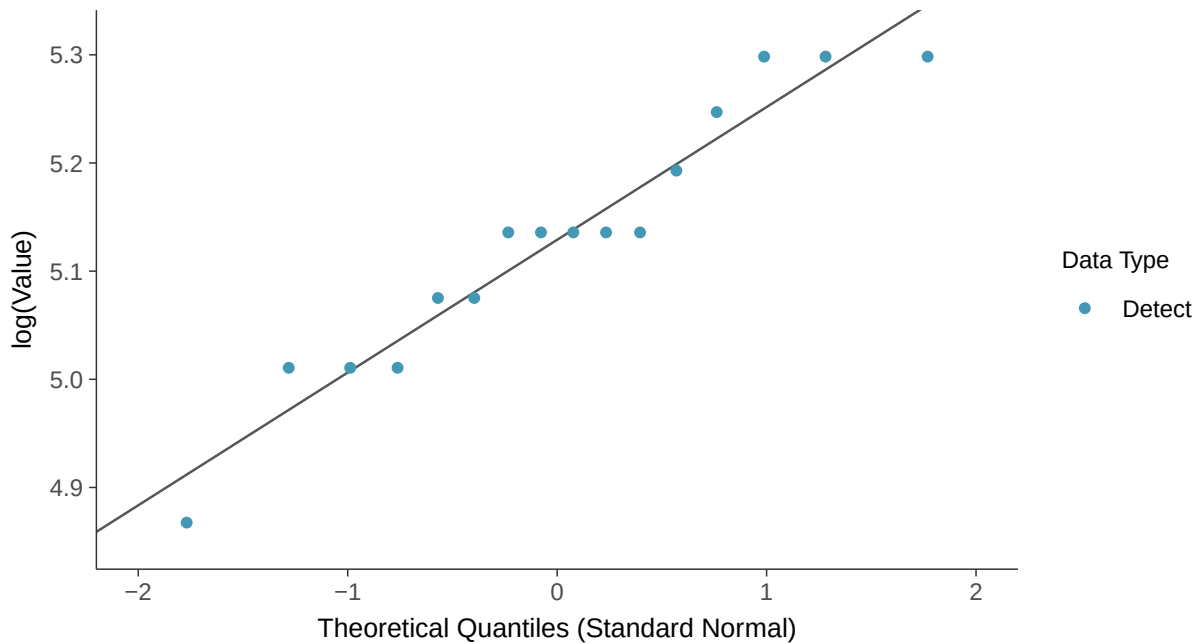
Normal Q-Q plot

Calcium, MW-31 (mg/L)



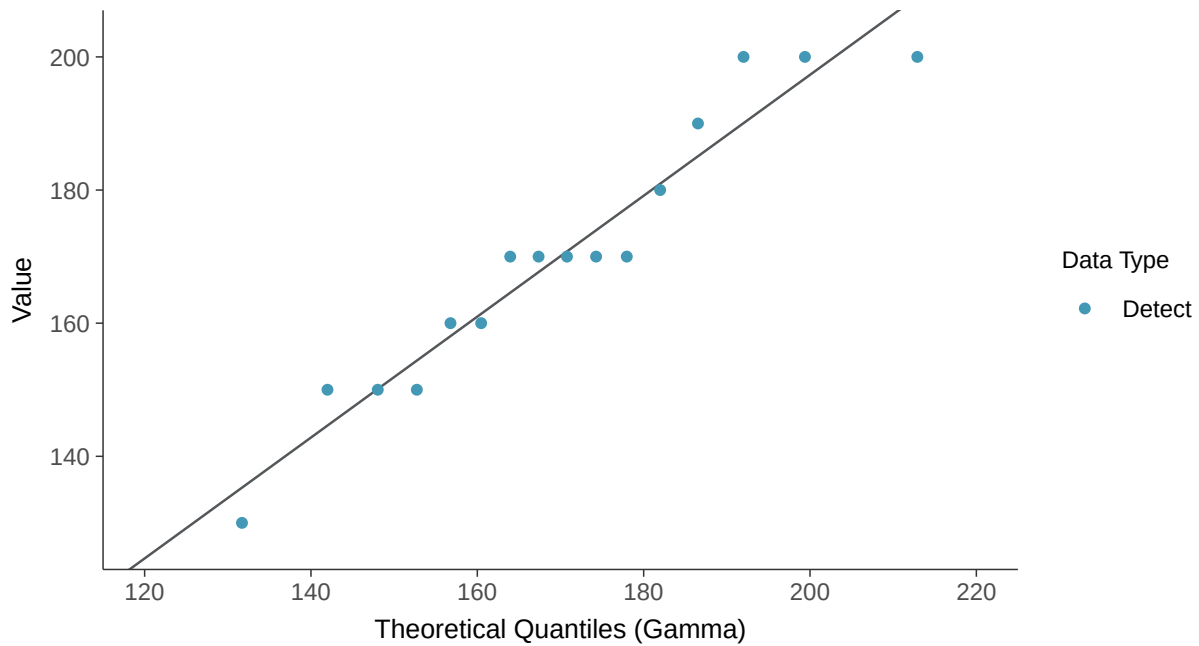
Lognormal Q-Q plot

Calcium, MW-31 (mg/L)



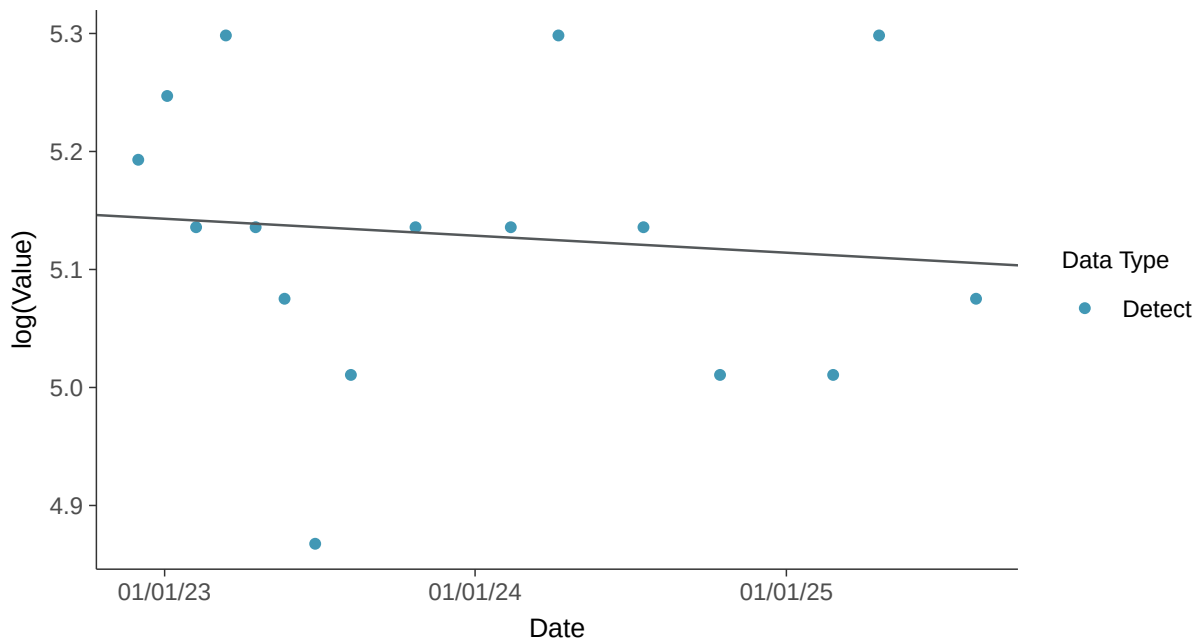
Gamma Q-Q plot

Calcium, MW-31 (mg/L)



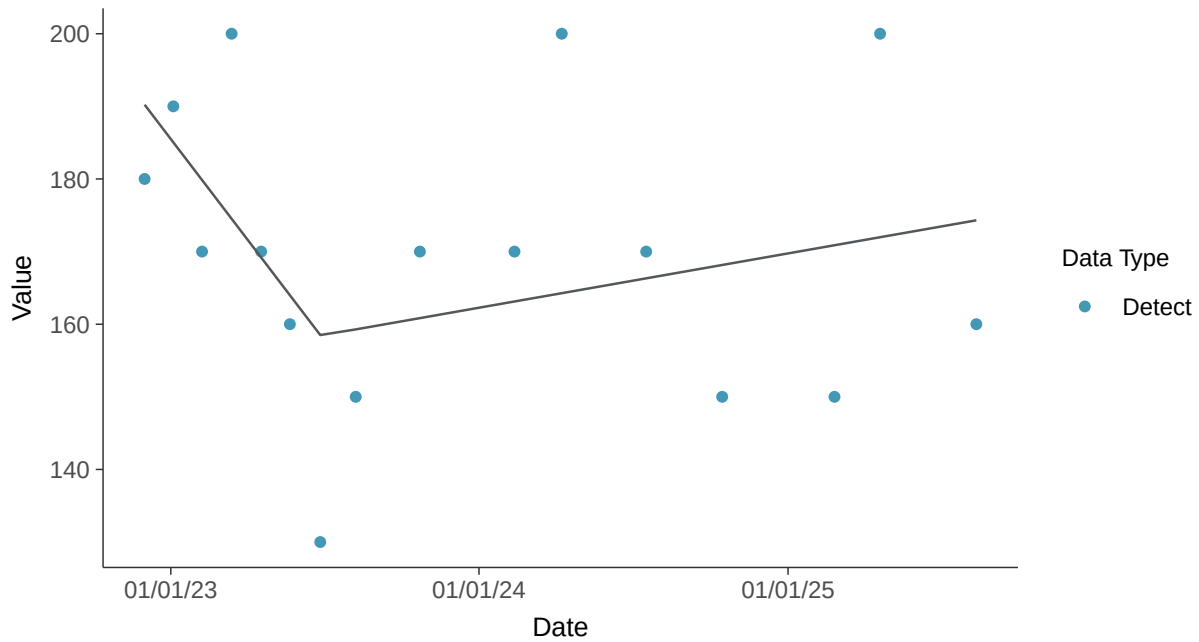
Trend Regression: Lognormal MLE

Calcium, MW-31 (mg/L)



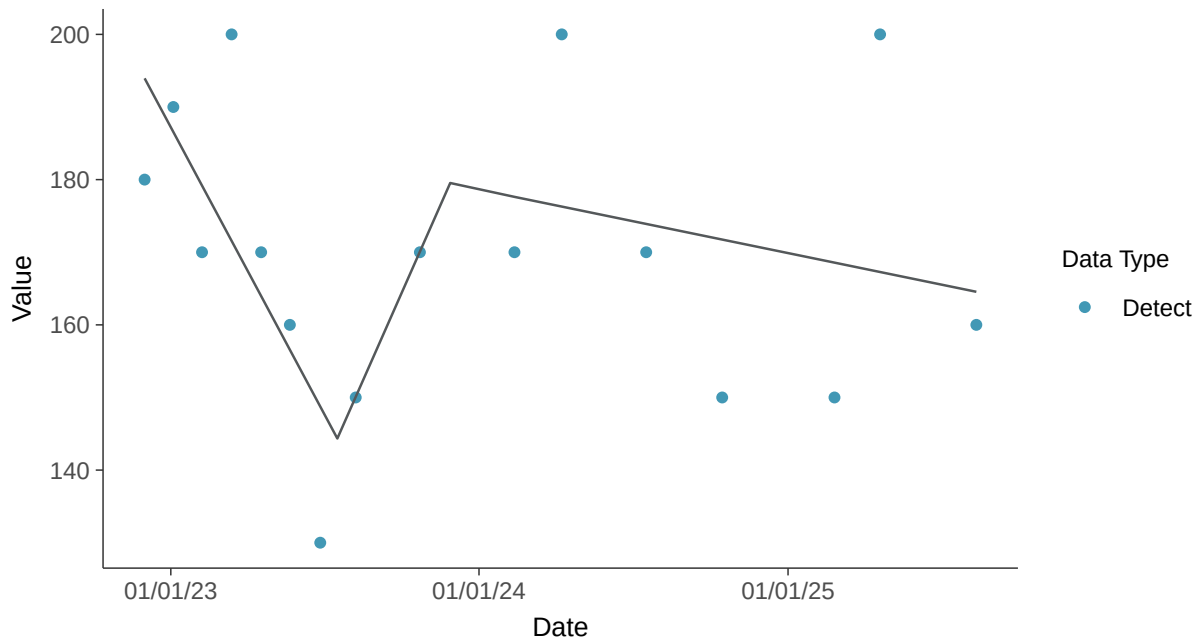
Trend Regression: Piecewise Linear-Linear

Calcium, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-31 (mg/L)

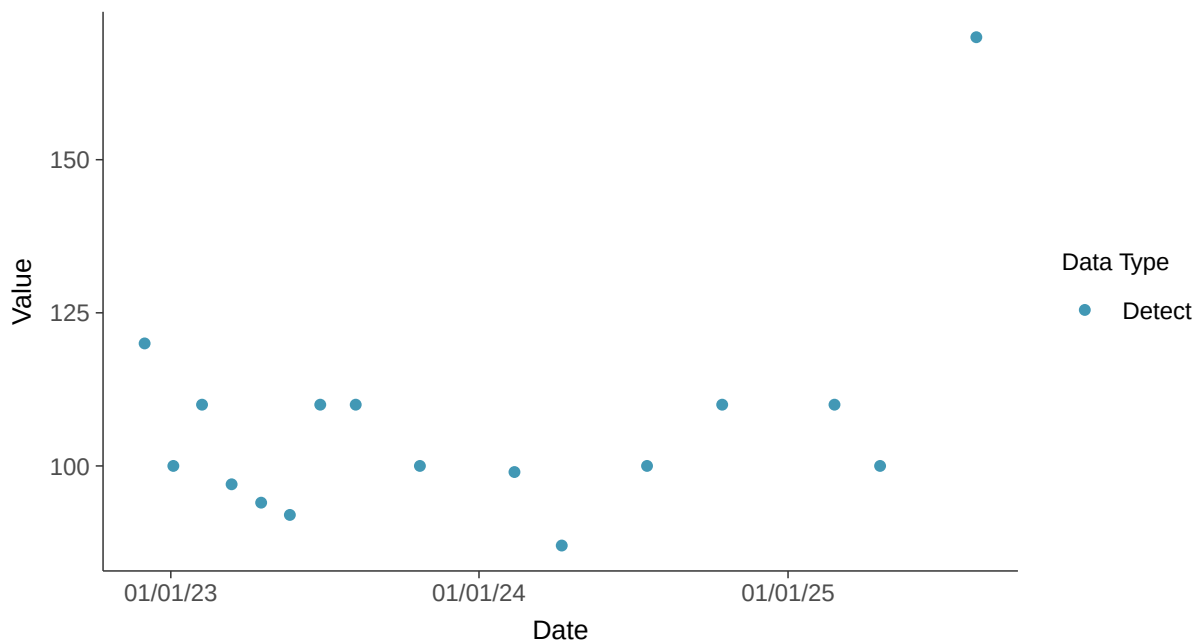


Appendix III: Chloride (as Cl), MW-31

ID: 41_1_3_108

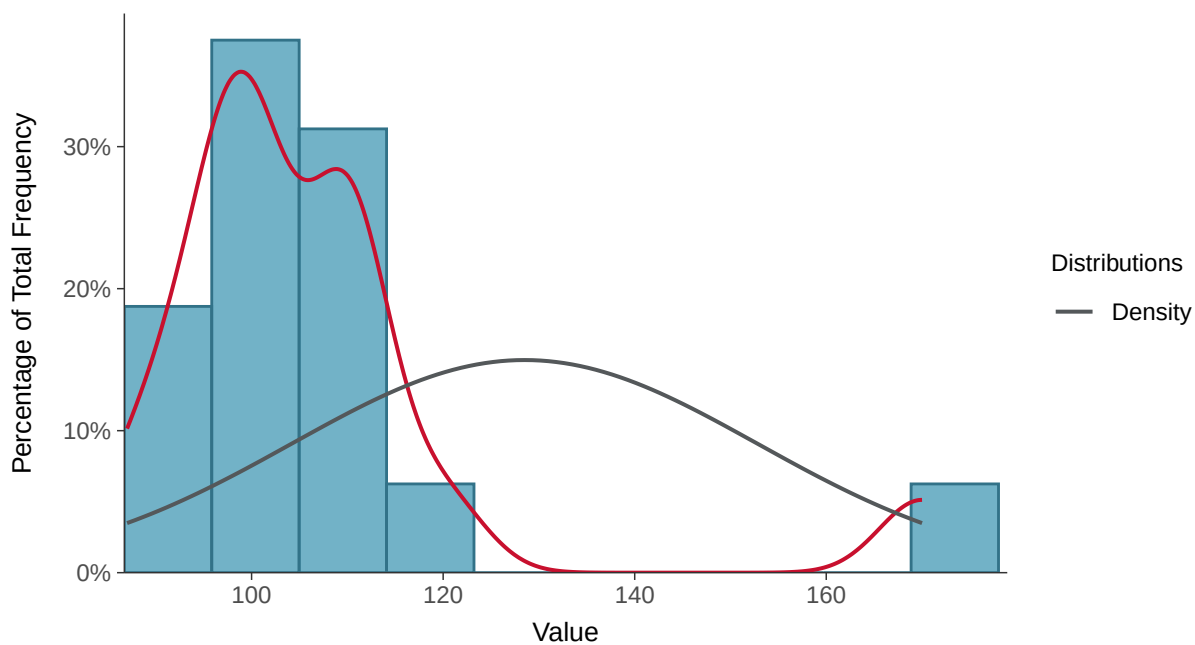
Scatter Plot

Chloride (as Cl), MW-31 (mg/L)



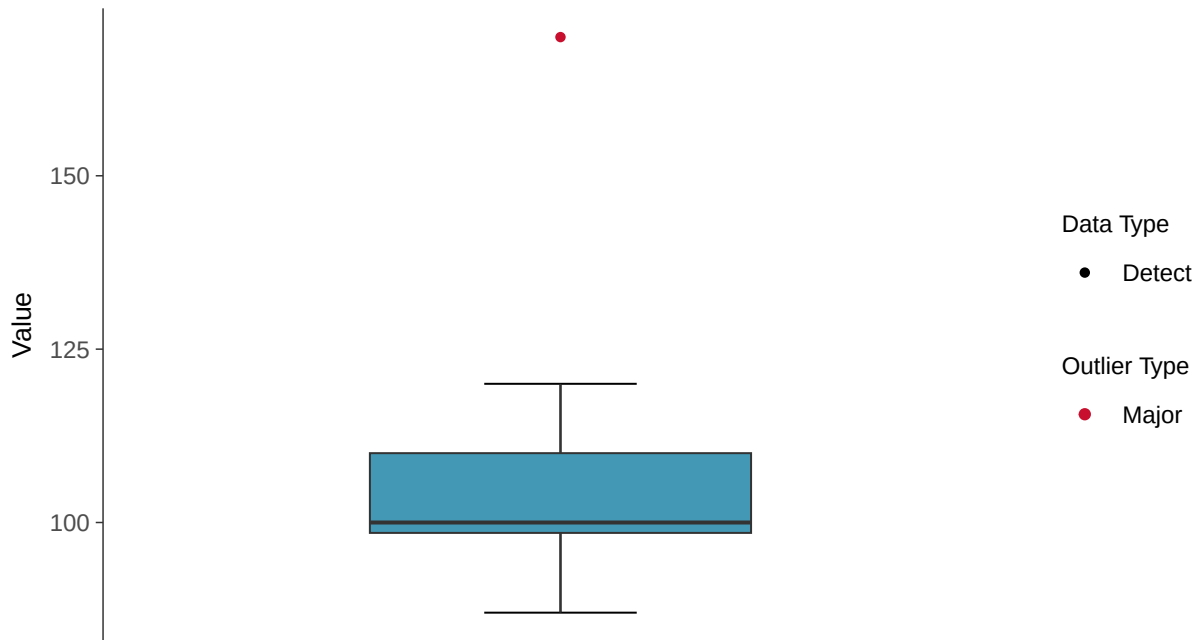
Histogram

Chloride (as Cl), MW-31 (mg/L)



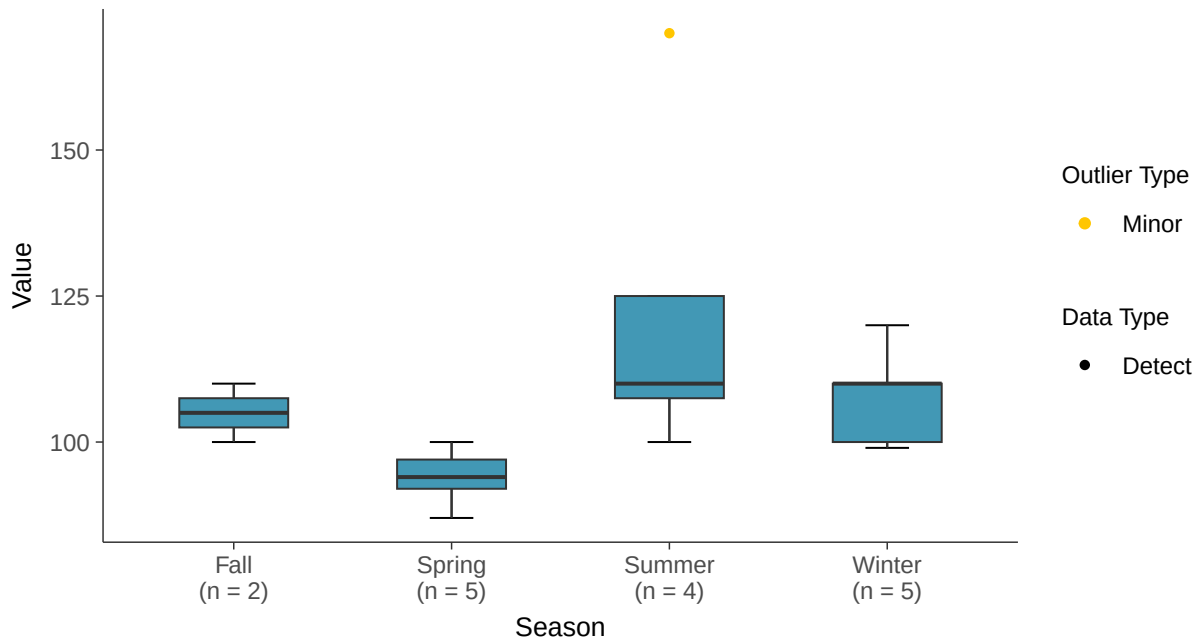
Boxplot

Chloride (as Cl), MW-31 (mg/L)



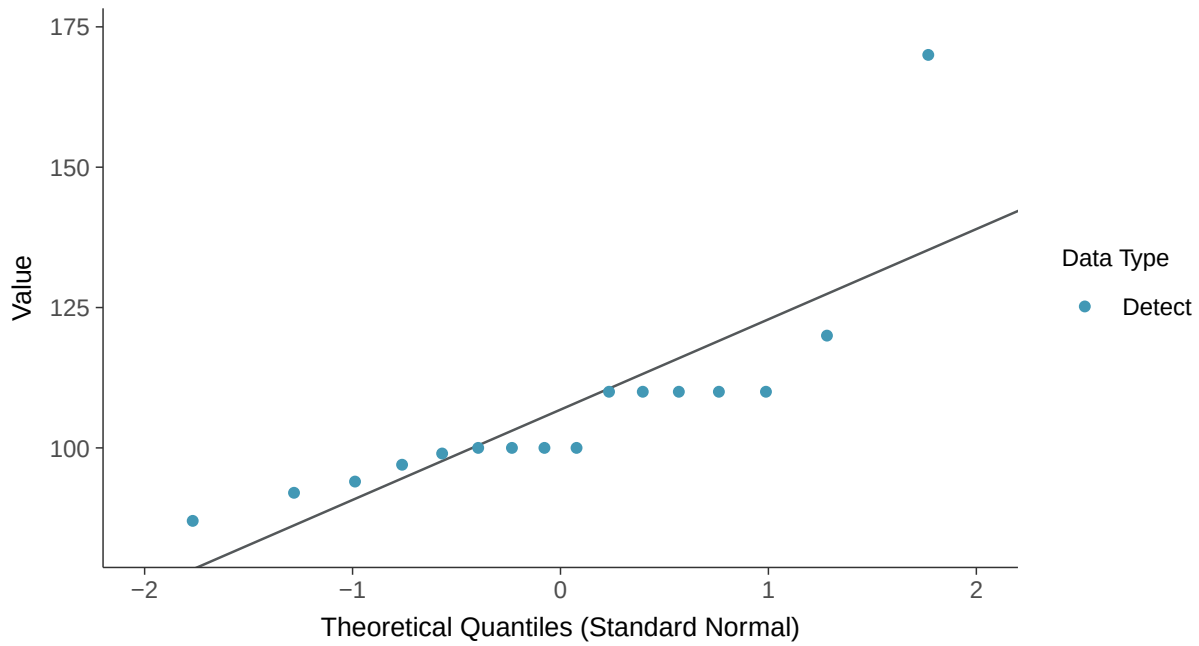
Boxplot by Season

Chloride (as Cl), MW-31 (mg/L)



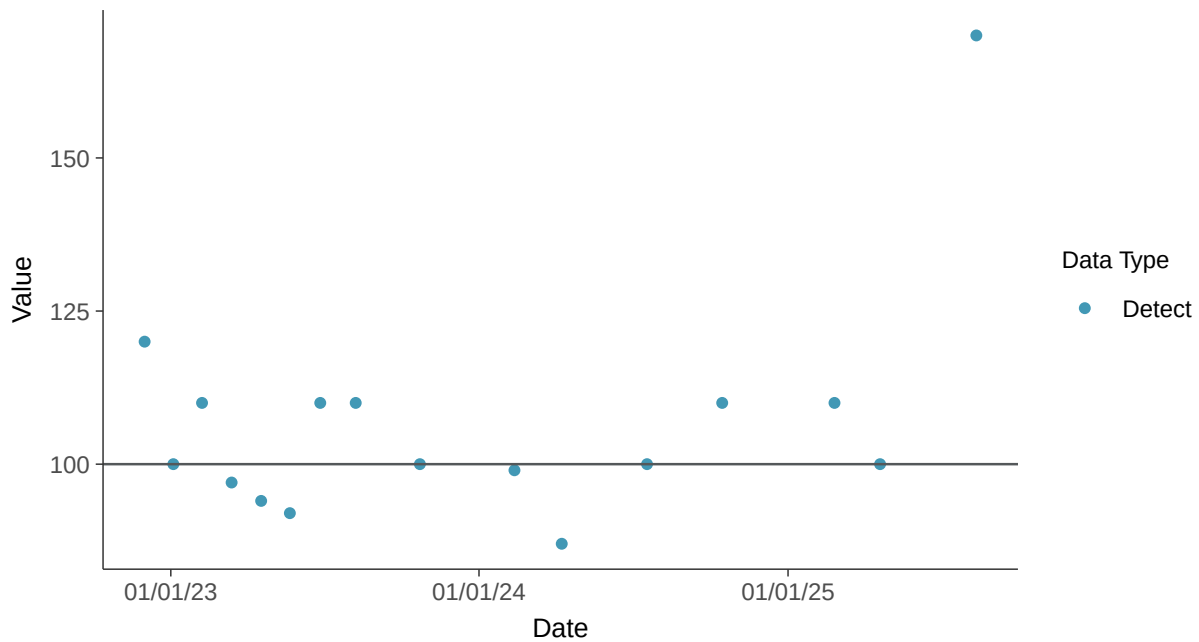
Normal Q-Q plot

Chloride (as Cl), MW-31 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

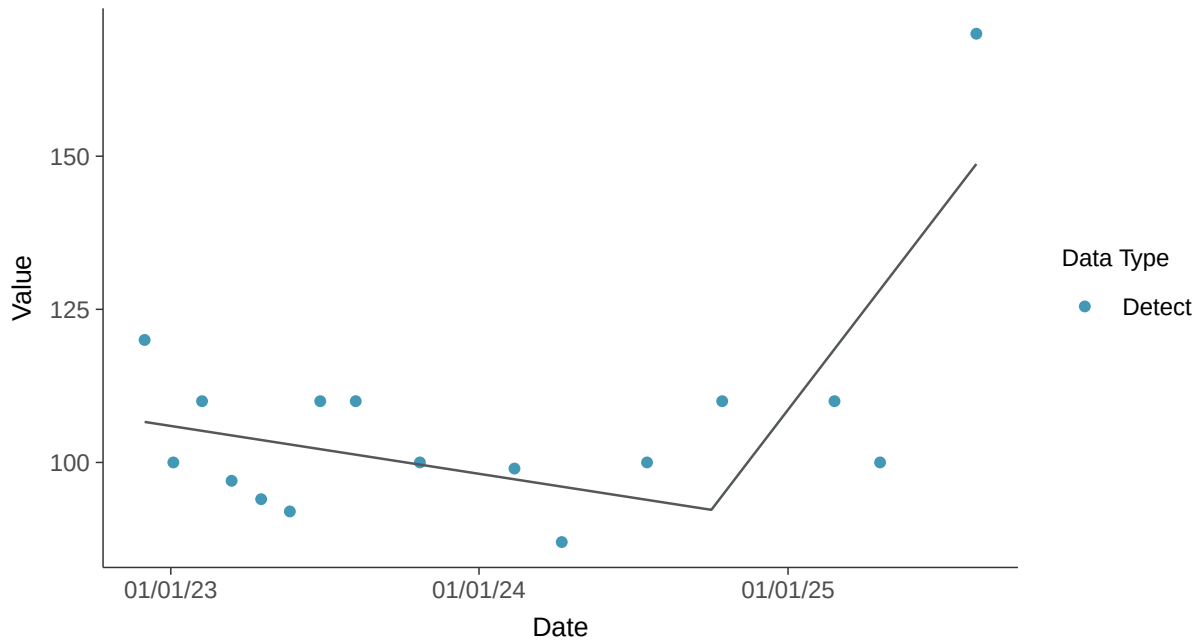
Chloride (as Cl), MW-31 (mg/L)





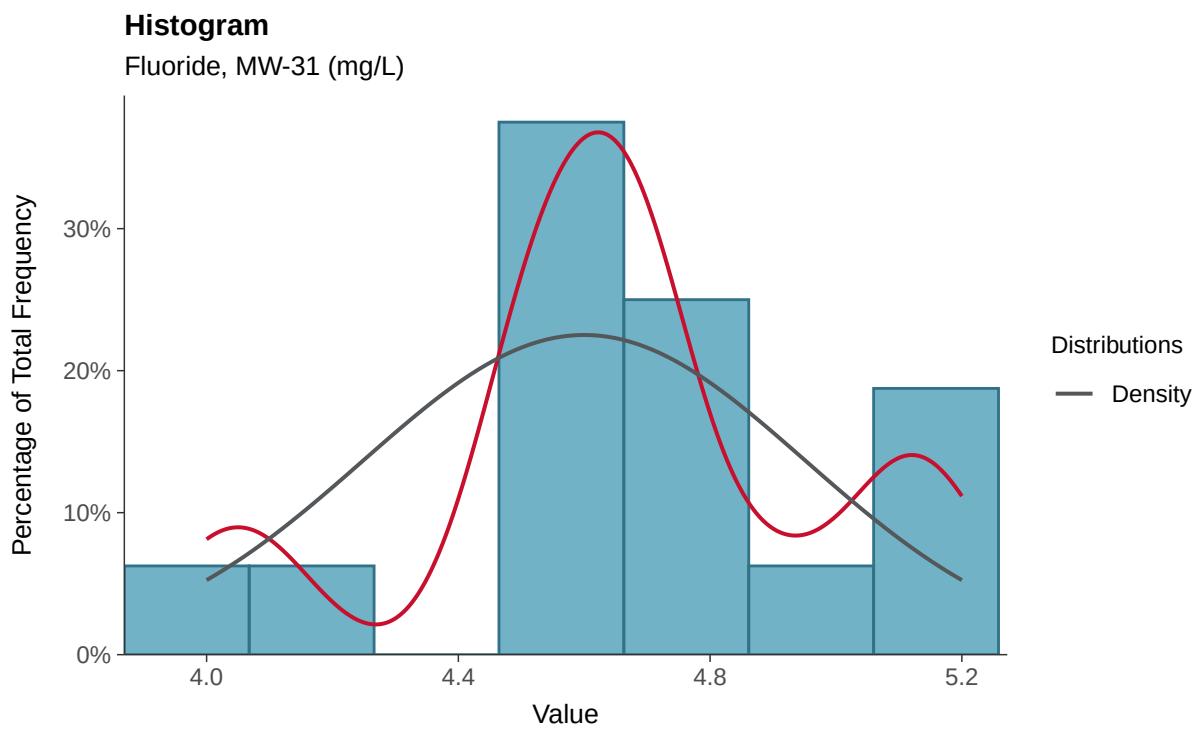
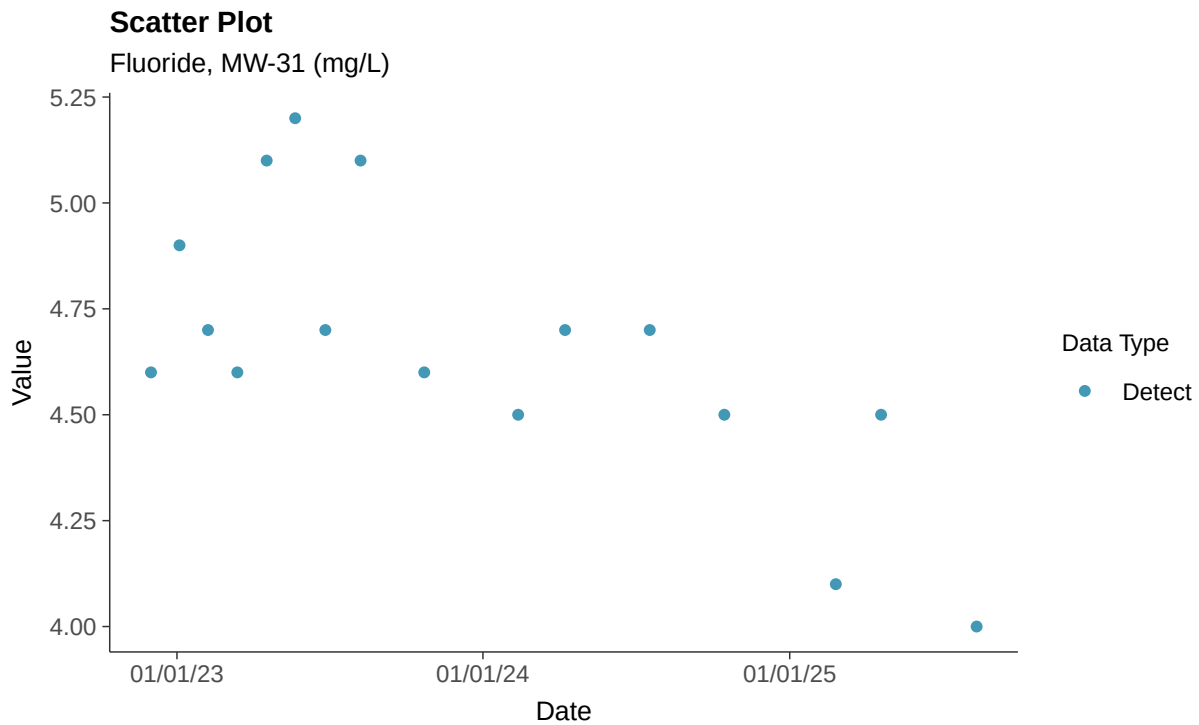
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-31 (mg/L)



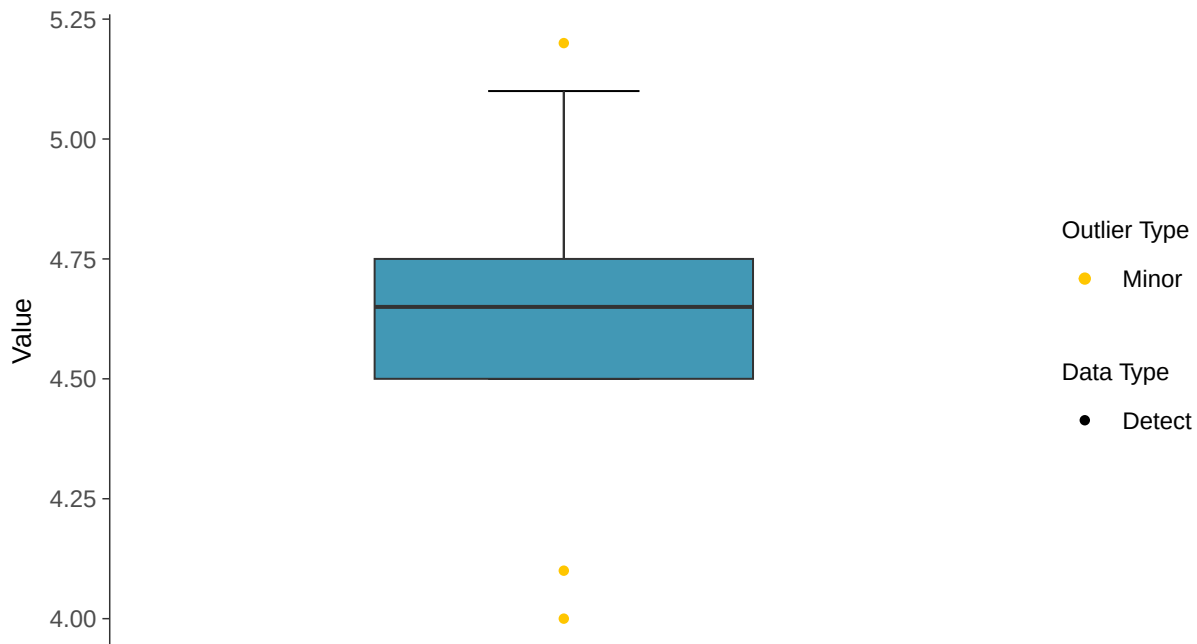
Appendix III: Fluoride, MW-31

ID: 41_1_3_112



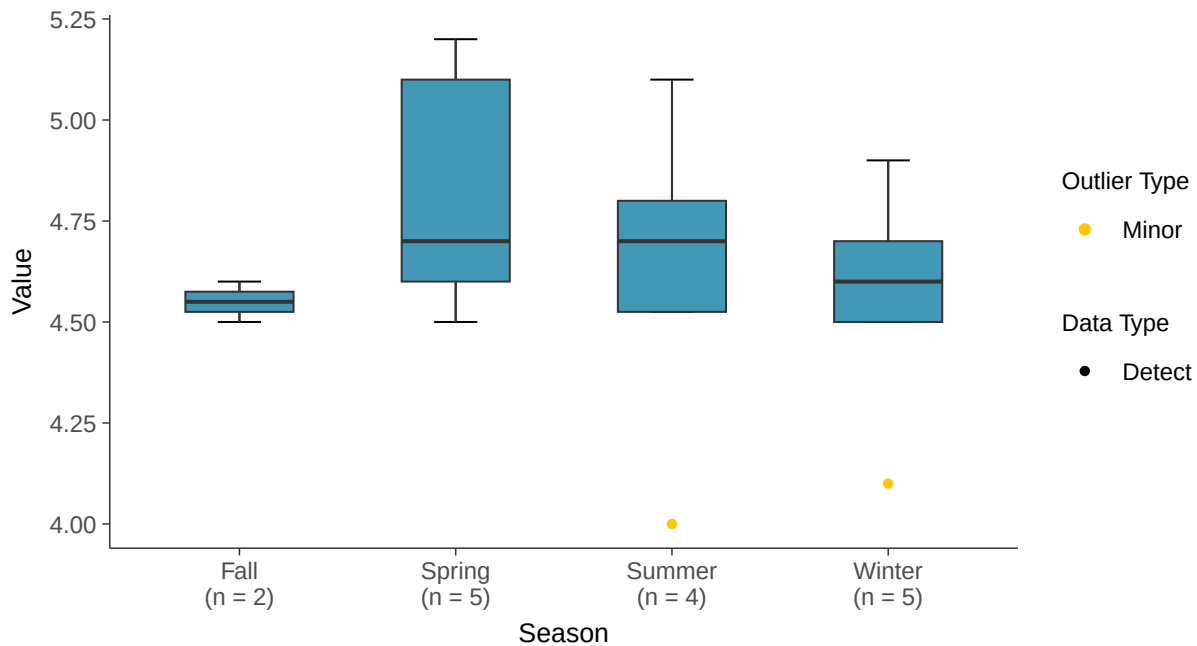
Boxplot

Fluoride, MW-31 (mg/L)



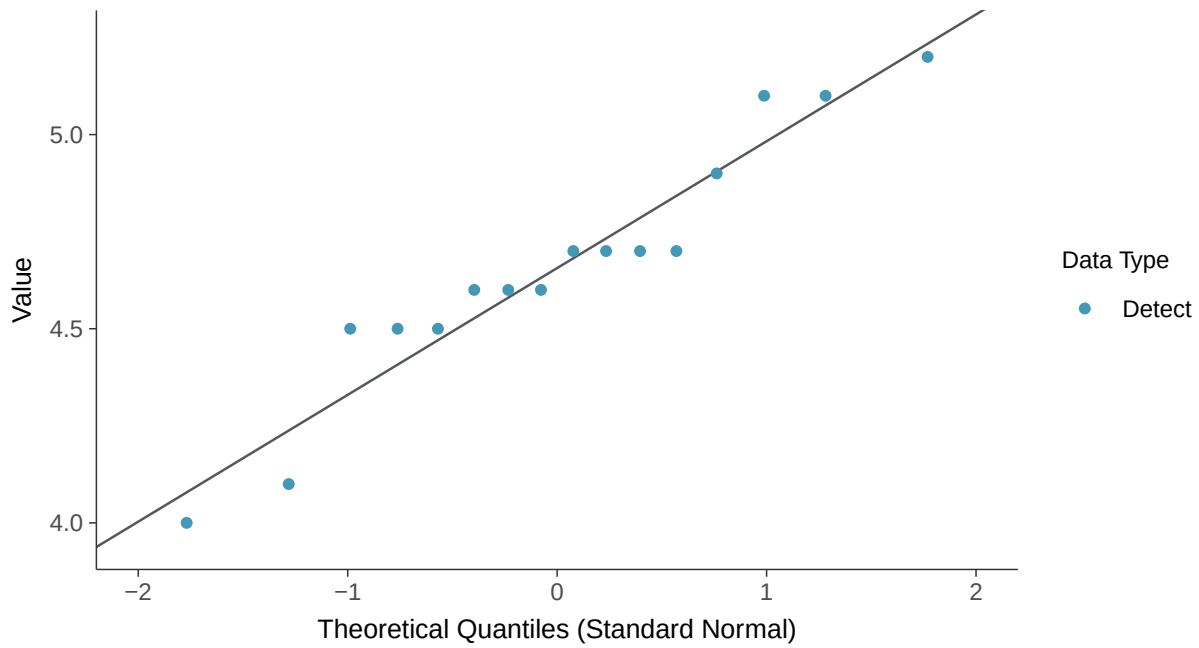
Boxplot by Season

Fluoride, MW-31 (mg/L)



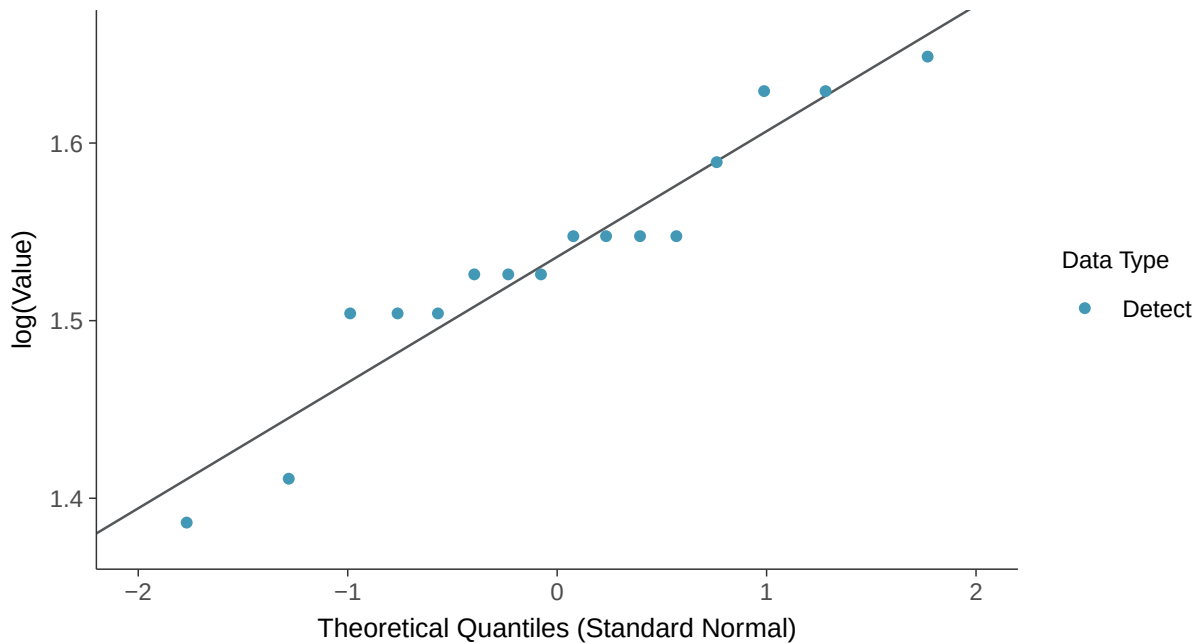
Normal Q-Q plot

Fluoride, MW-31 (mg/L)



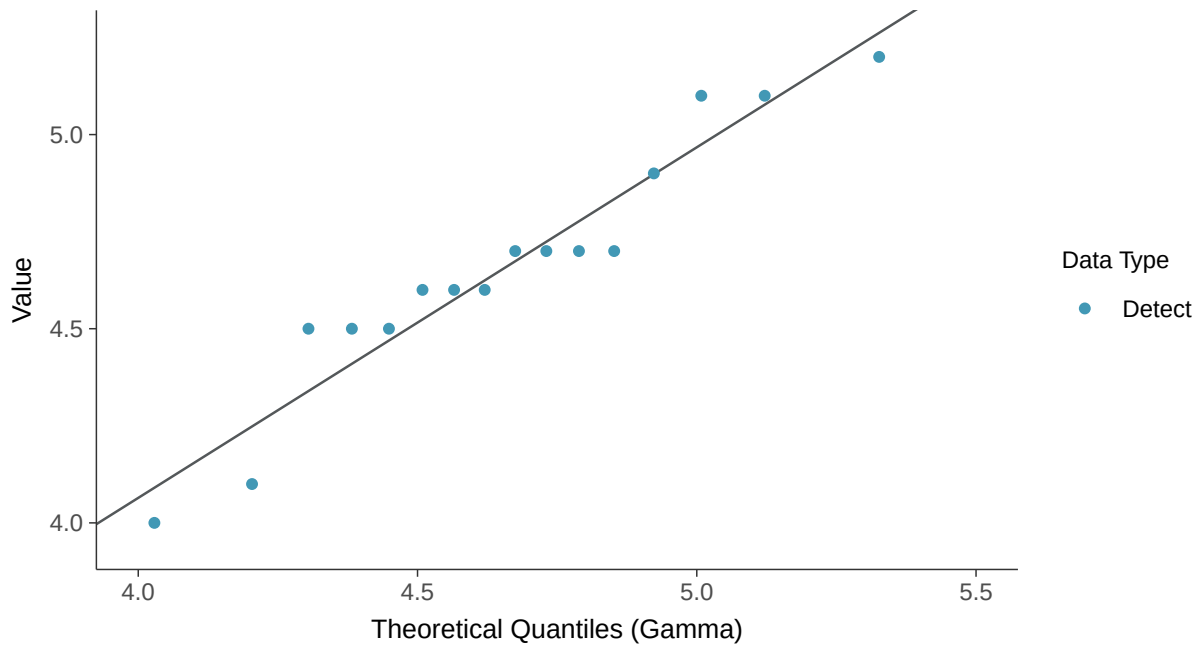
Lognormal Q-Q plot

Fluoride, MW-31 (mg/L)



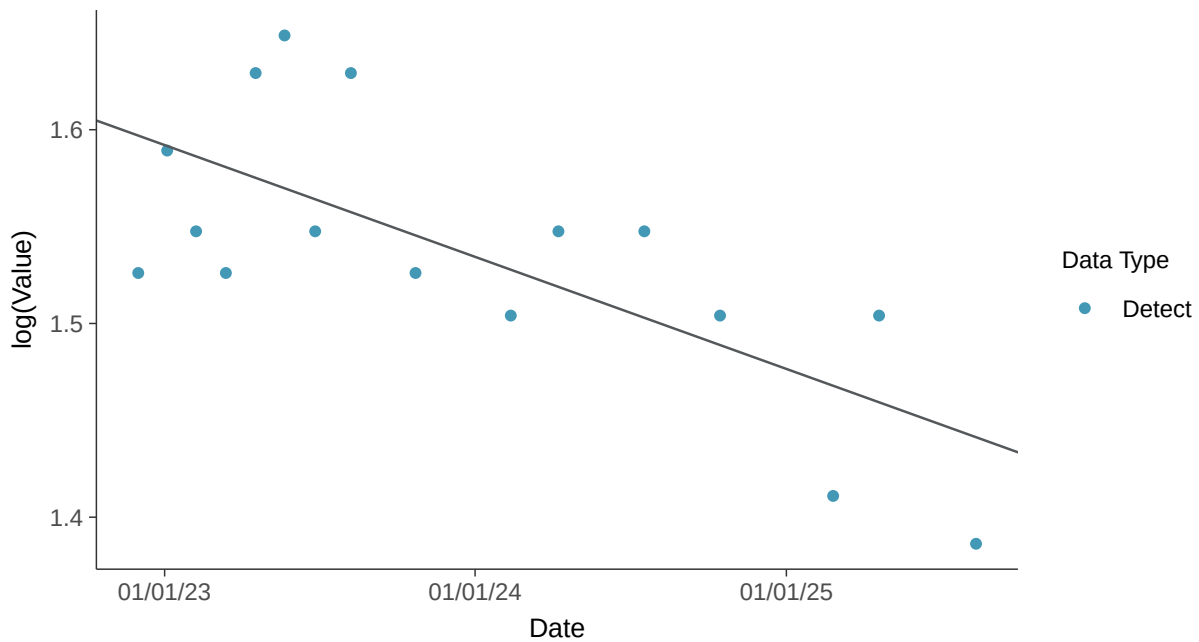
Gamma Q-Q plot

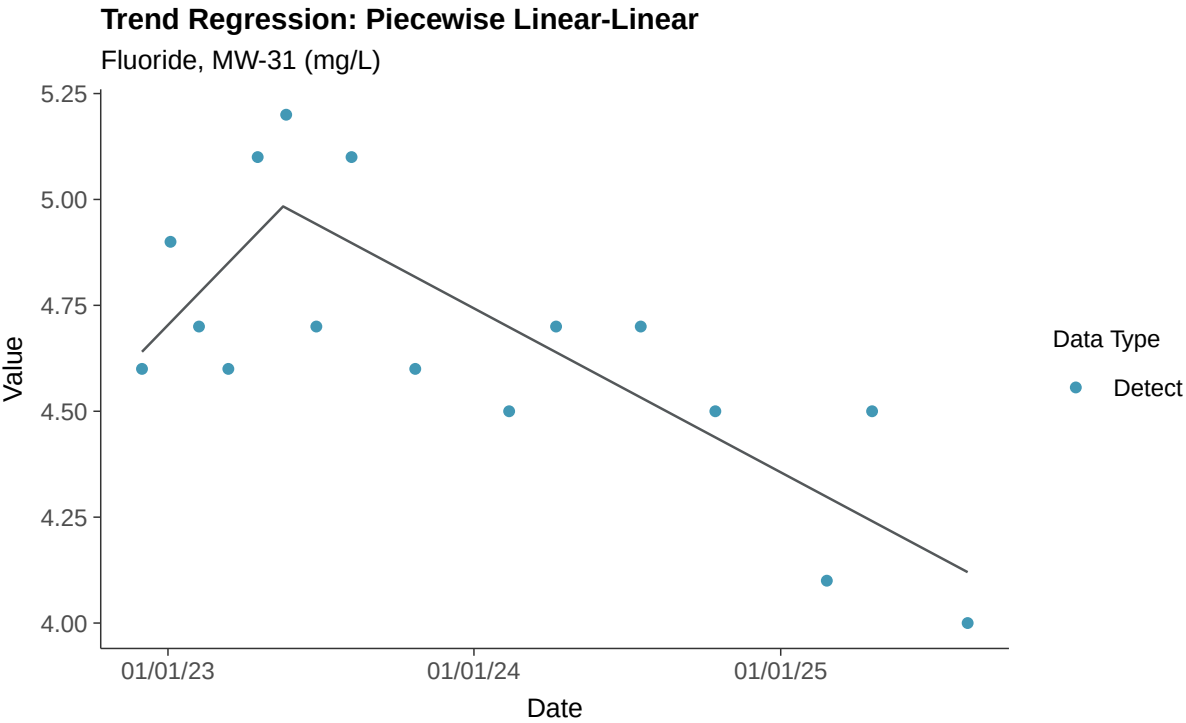
Fluoride, MW-31 (mg/L)



Trend Regression: Lognormal MLE

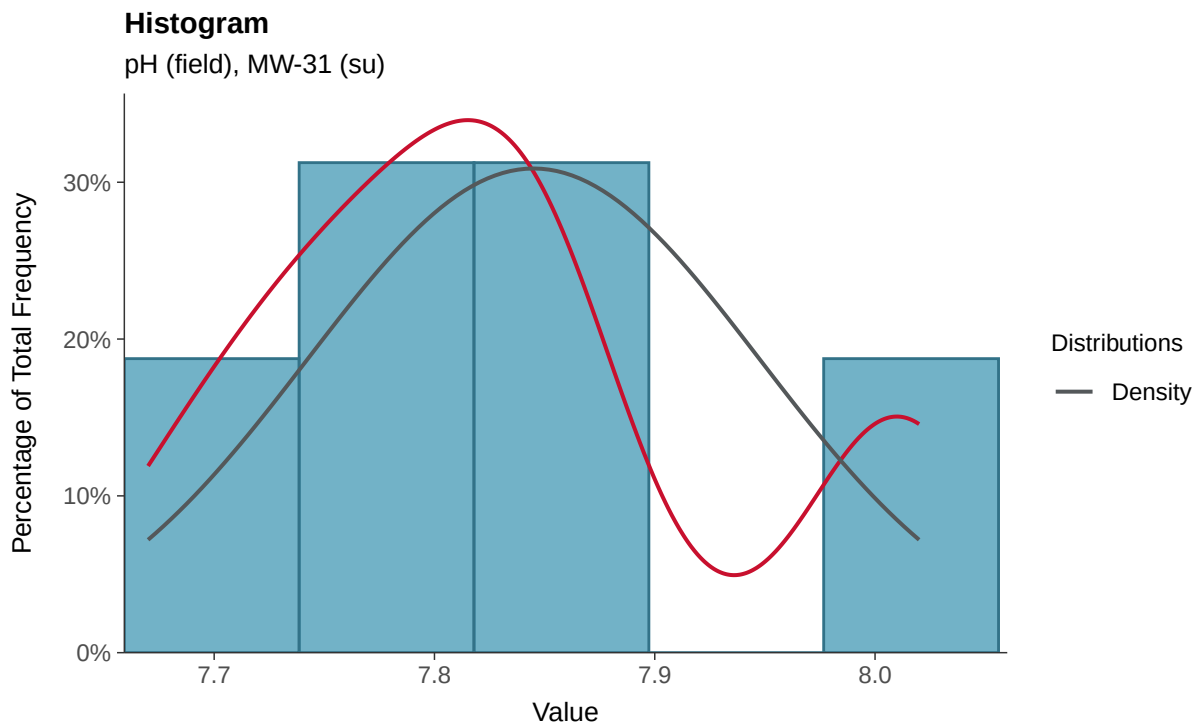
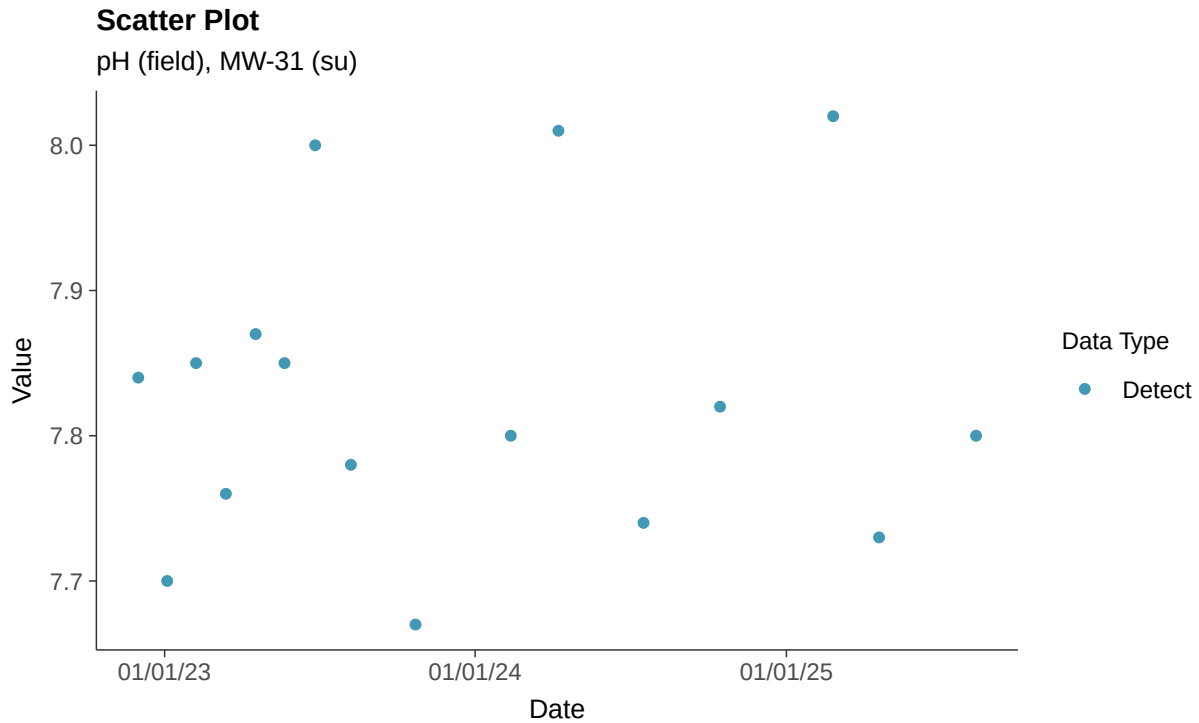
Fluoride, MW-31 (mg/L)





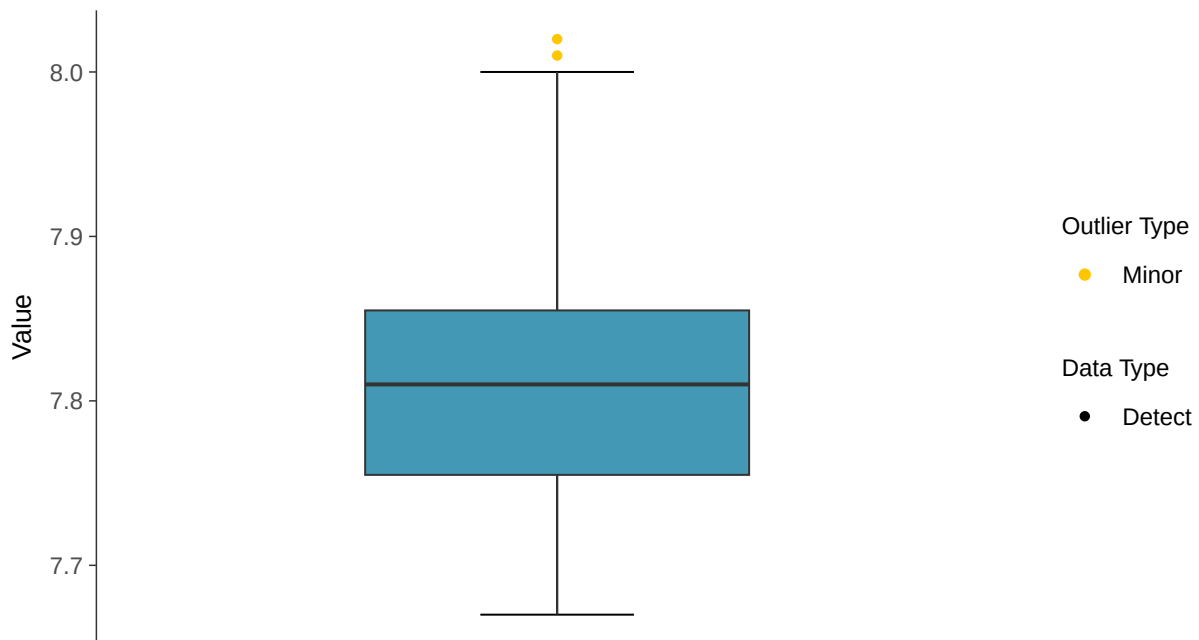
Appendix III: pH (field), MW-31

ID: 41_1_3_120



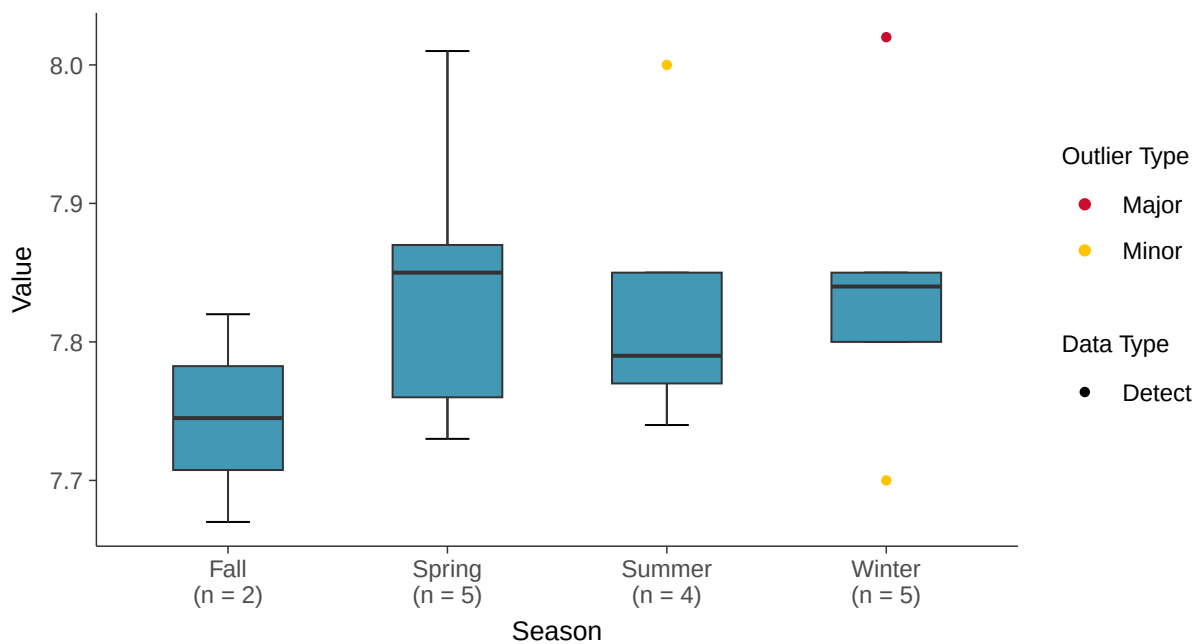
Boxplot

pH (field), MW-31 (su)



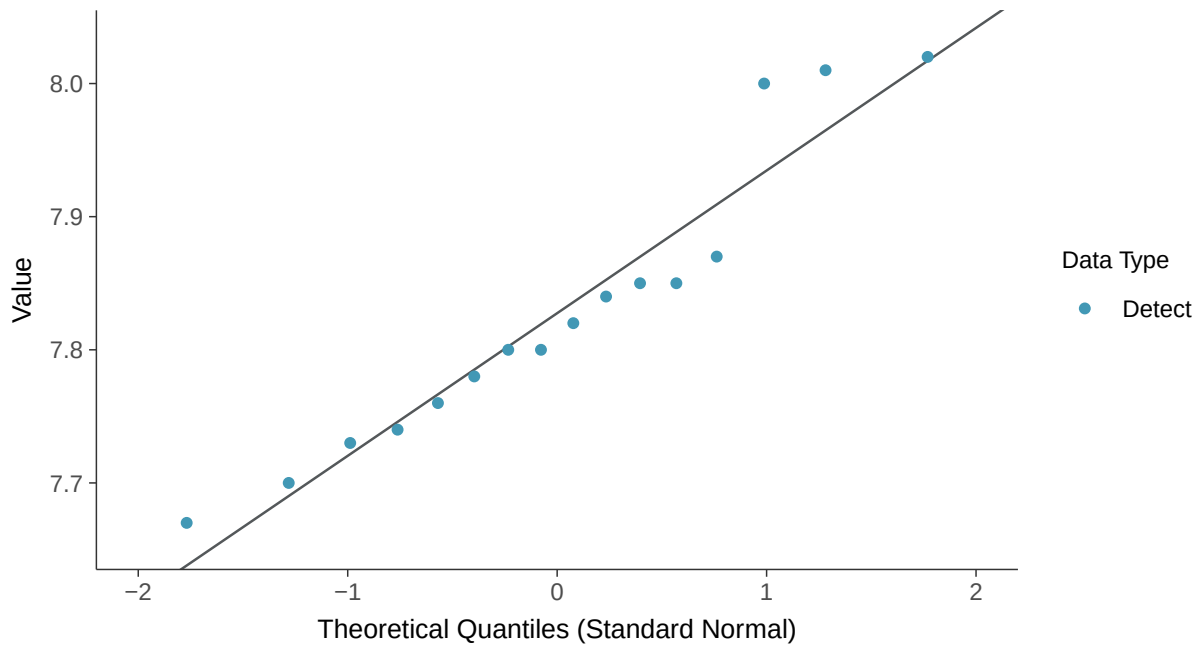
Boxplot by Season

pH (field), MW-31 (su)



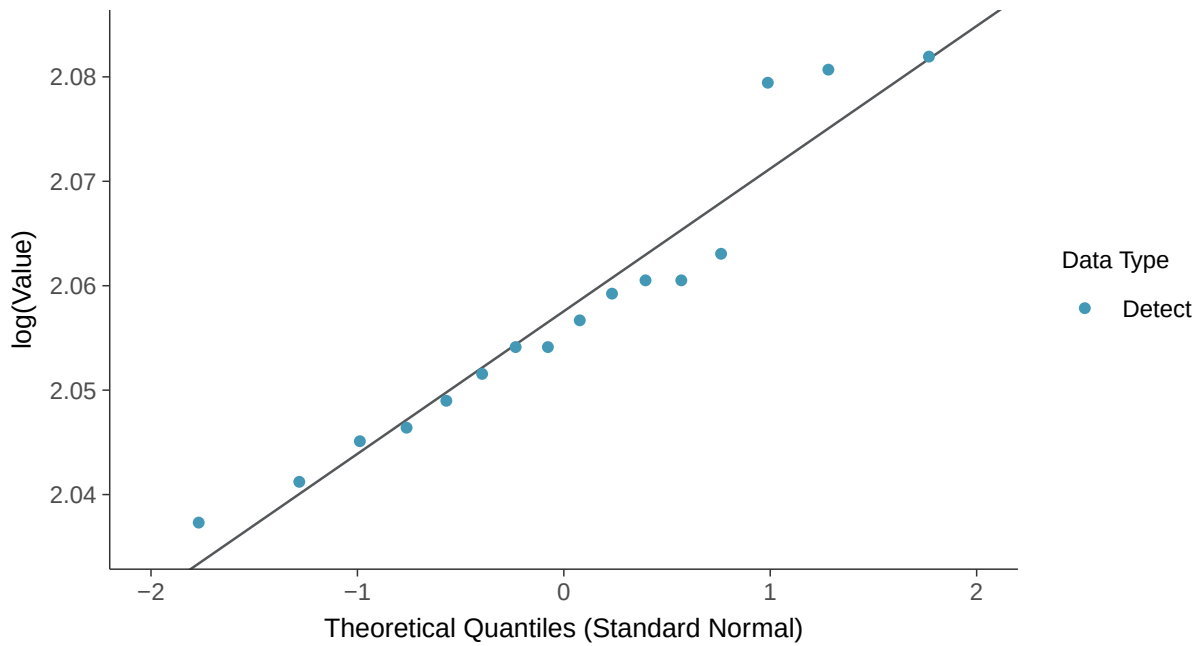
Normal Q-Q plot

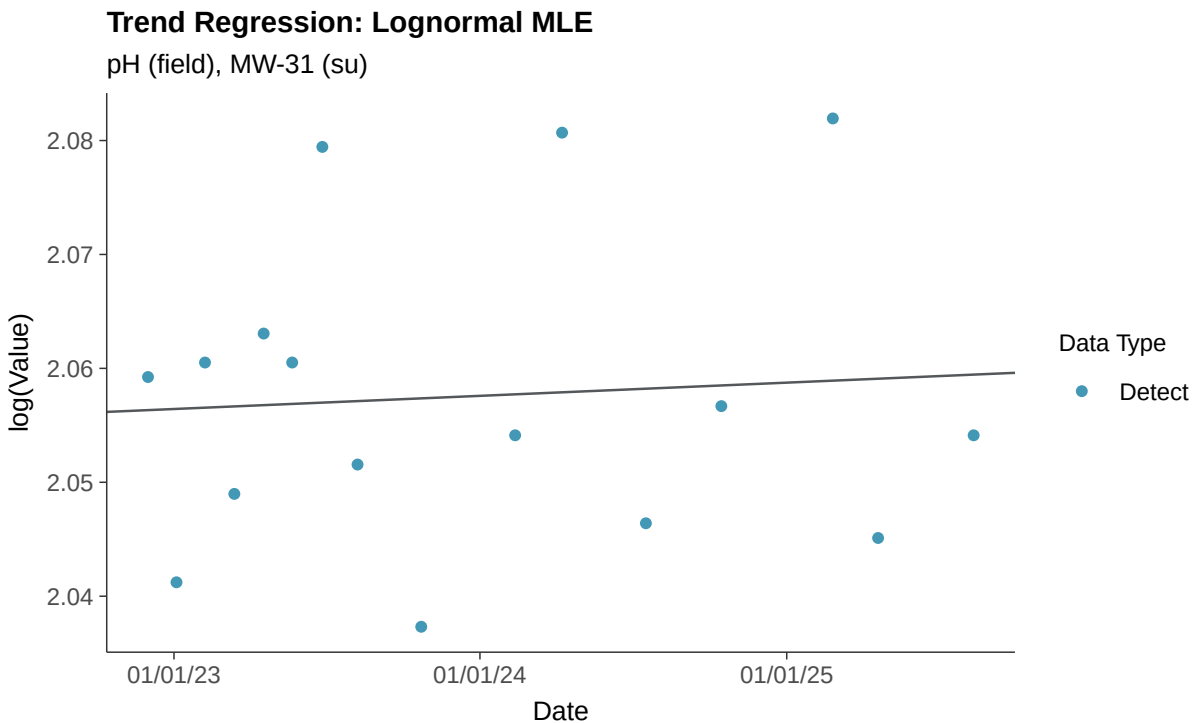
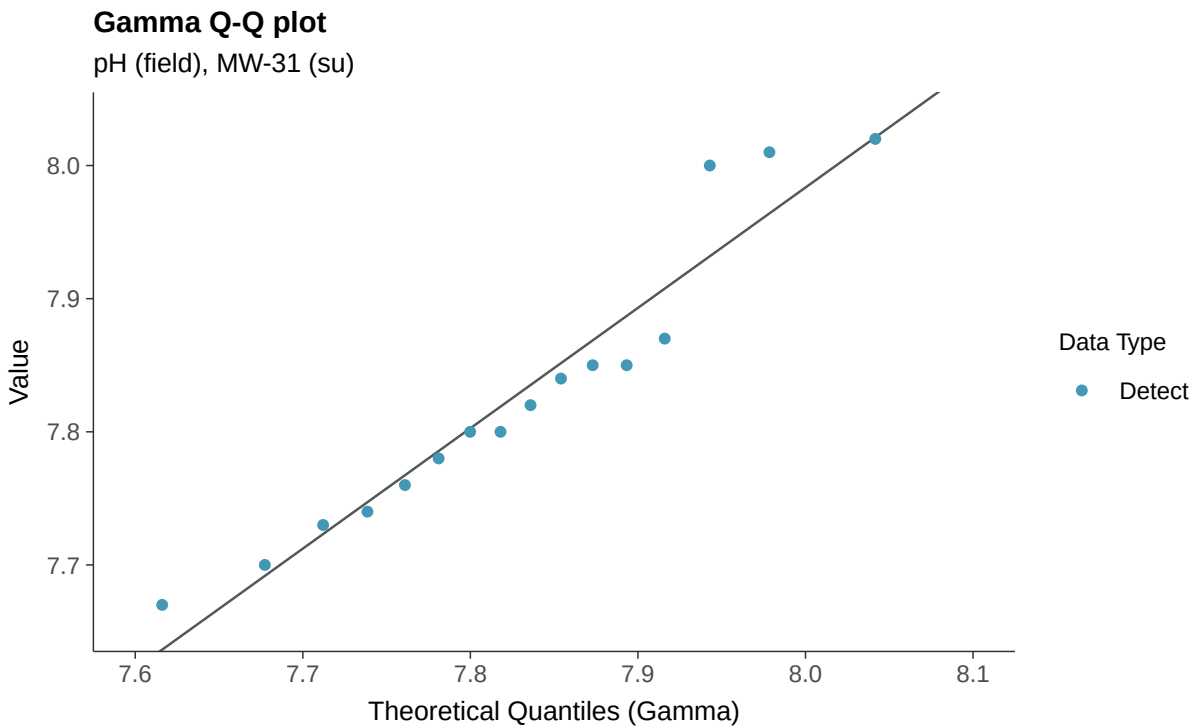
pH (field), MW-31 (su)



Lognormal Q-Q plot

pH (field), MW-31 (su)

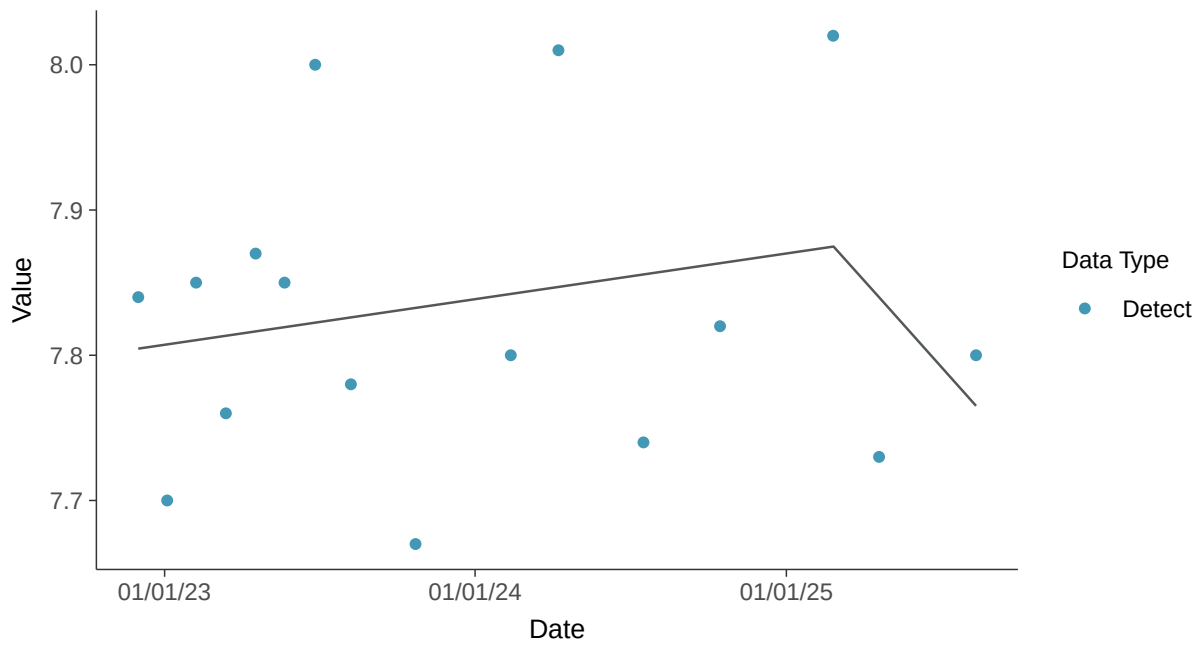






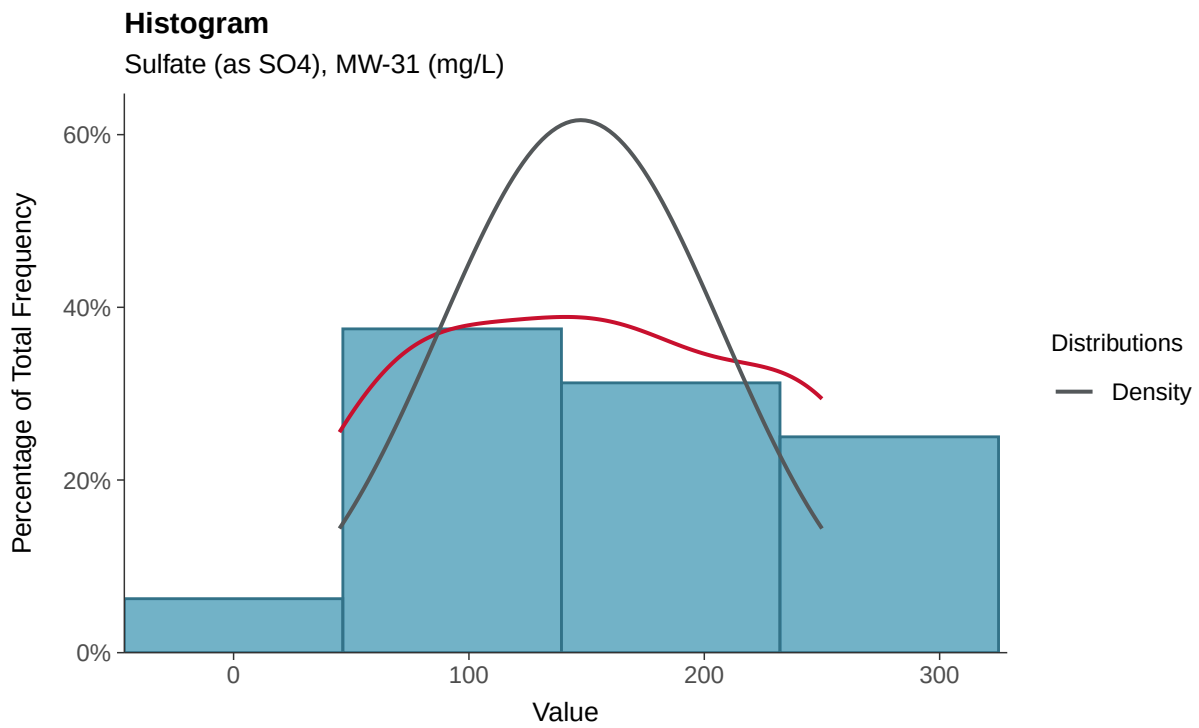
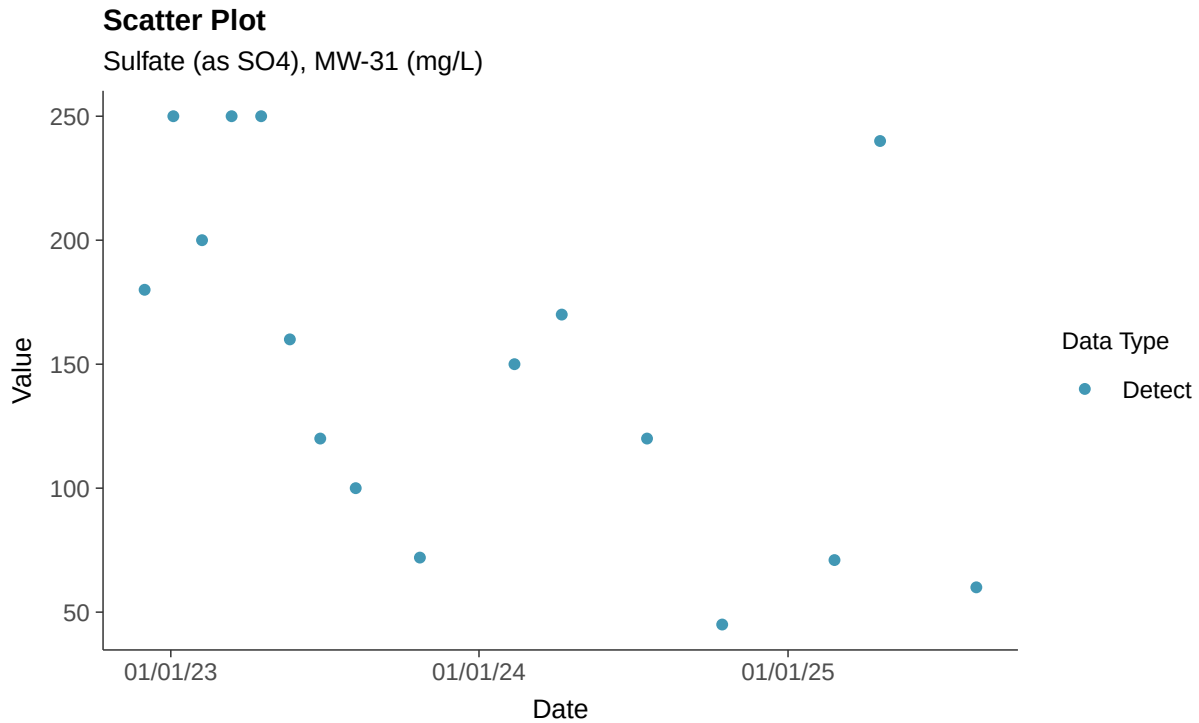
Trend Regression: Piecewise Linear-Linear

pH (field), MW-31 (su)



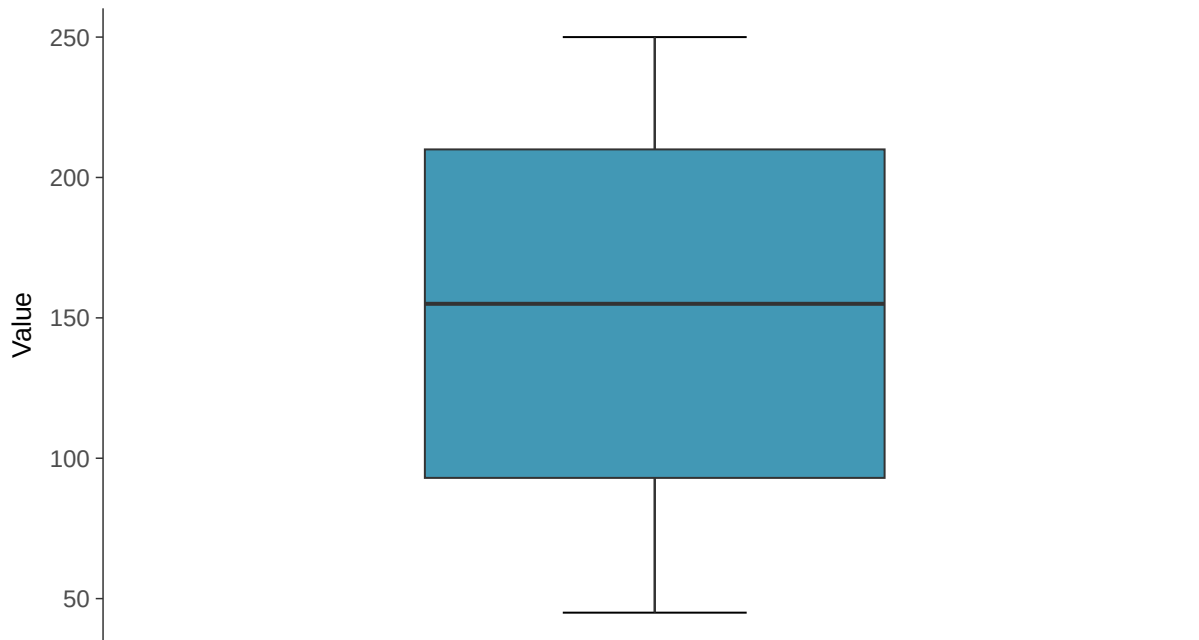
Appendix III: Sulfate (as SO₄), MW-31

ID: 41_1_3_124



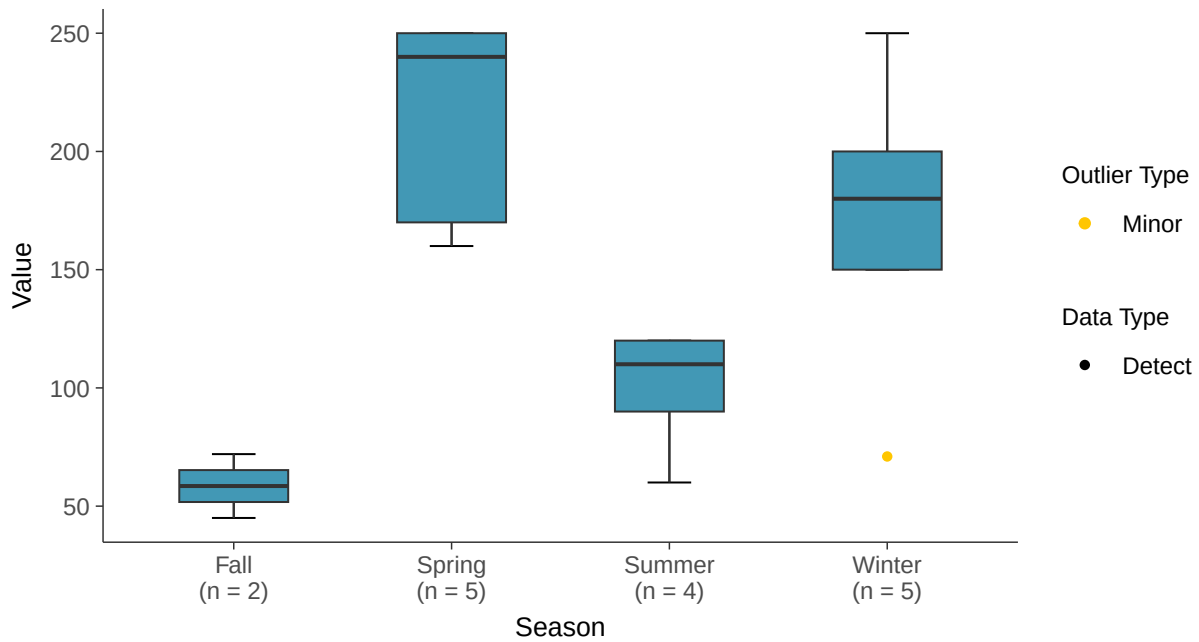
Boxplot

Sulfate (as SO₄), MW-31 (mg/L)



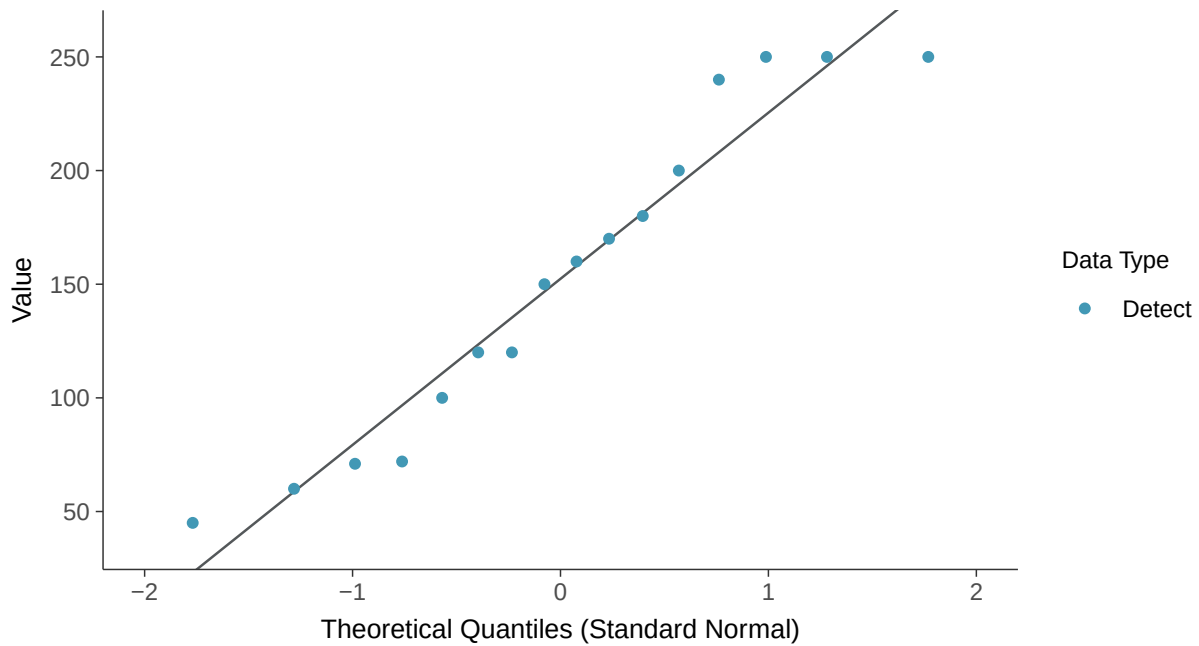
Boxplot by Season

Sulfate (as SO₄), MW-31 (mg/L)



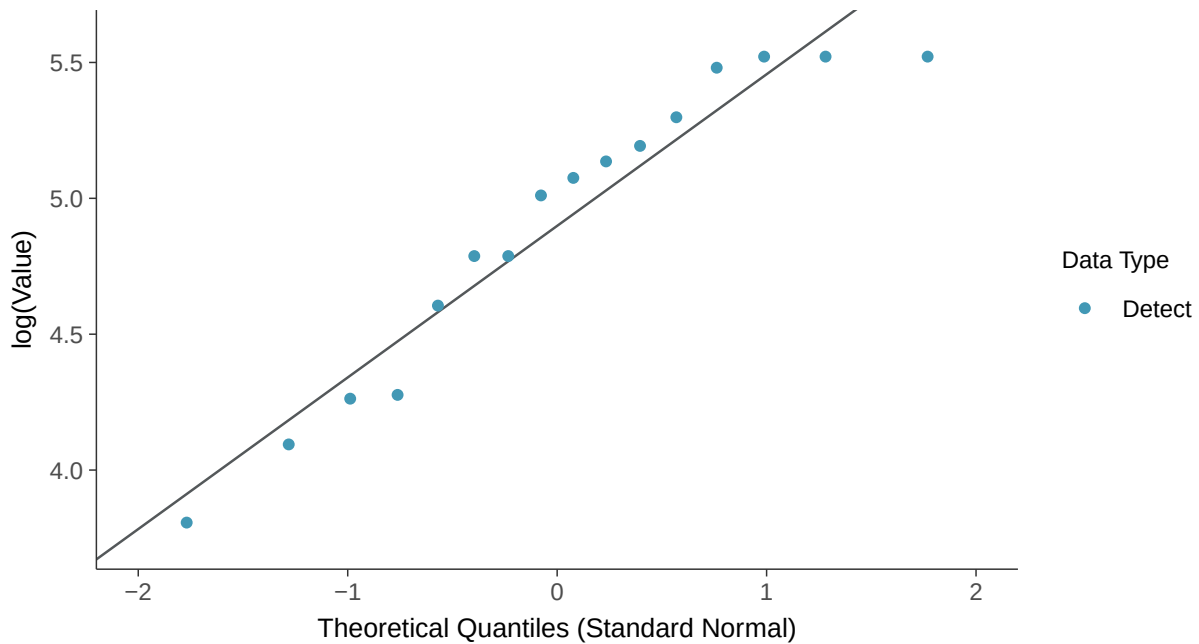
Normal Q-Q plot

Sulfate (as SO₄), MW-31 (mg/L)



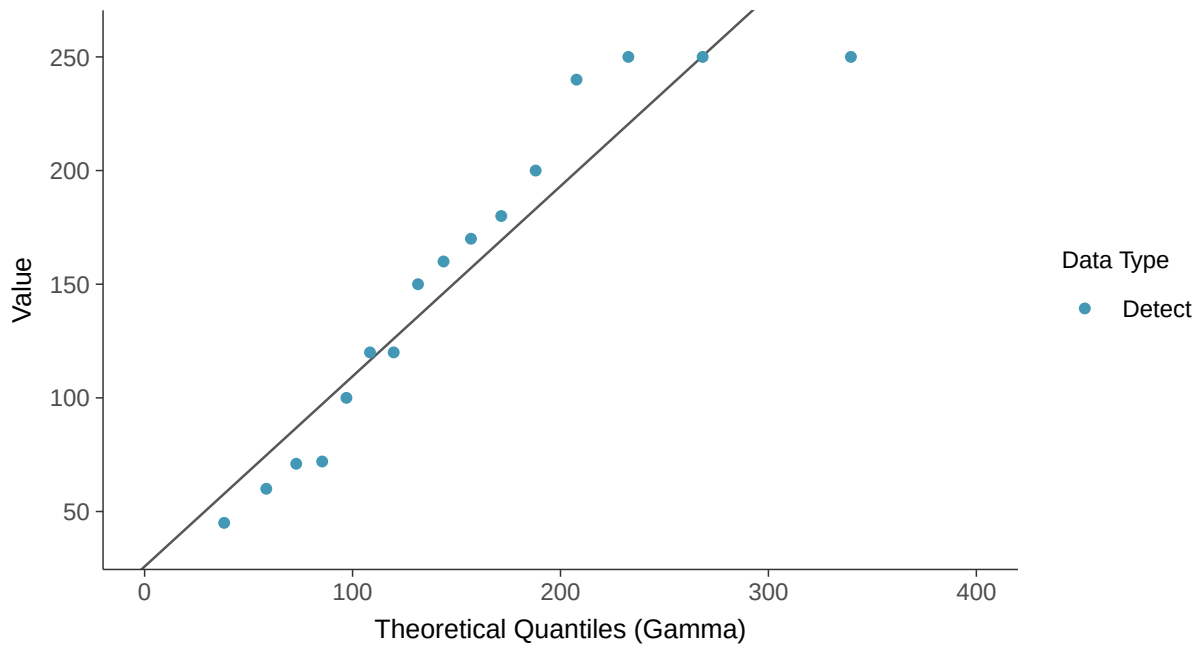
Lognormal Q-Q plot

Sulfate (as SO₄), MW-31 (mg/L)



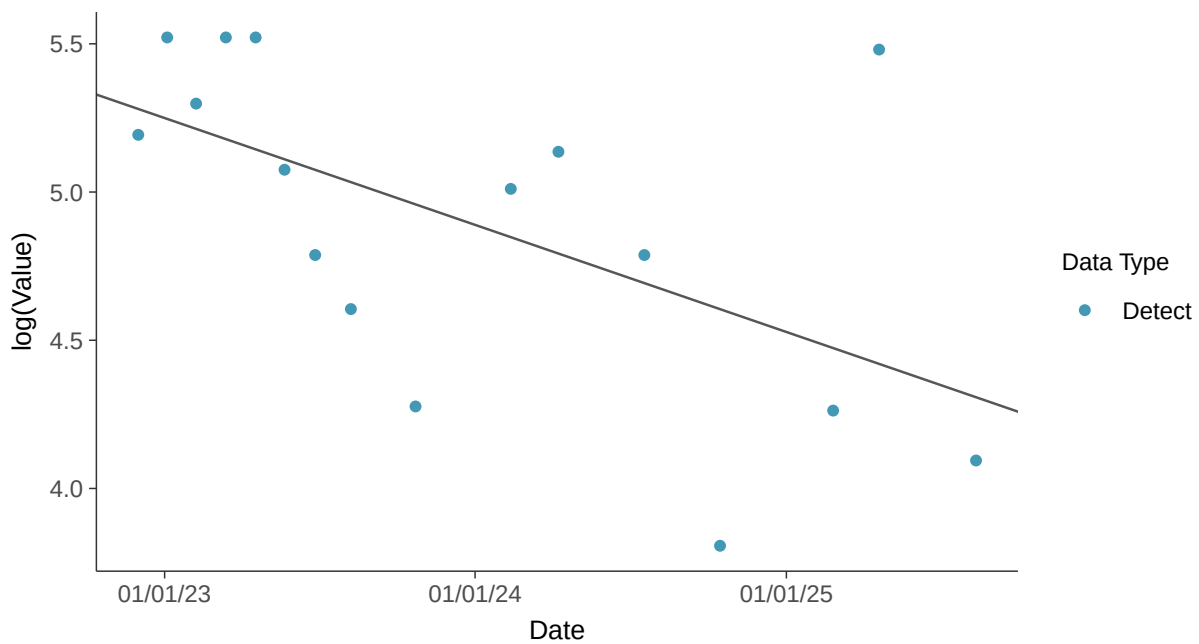
Gamma Q-Q plot

Sulfate (as SO₄), MW-31 (mg/L)



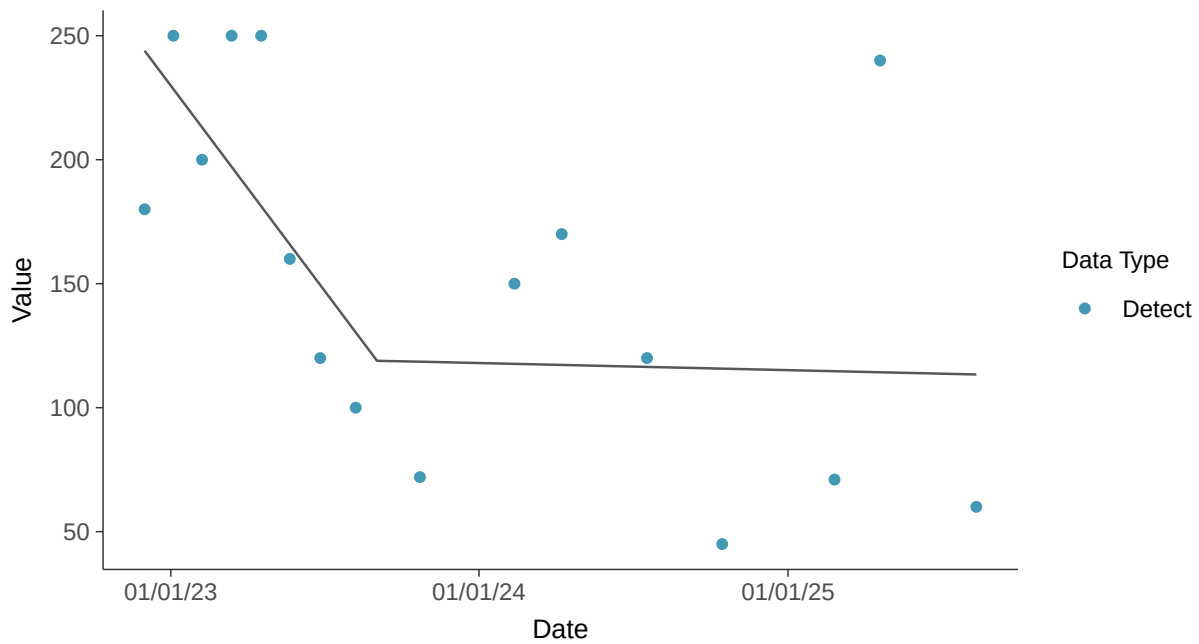
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-31 (mg/L)



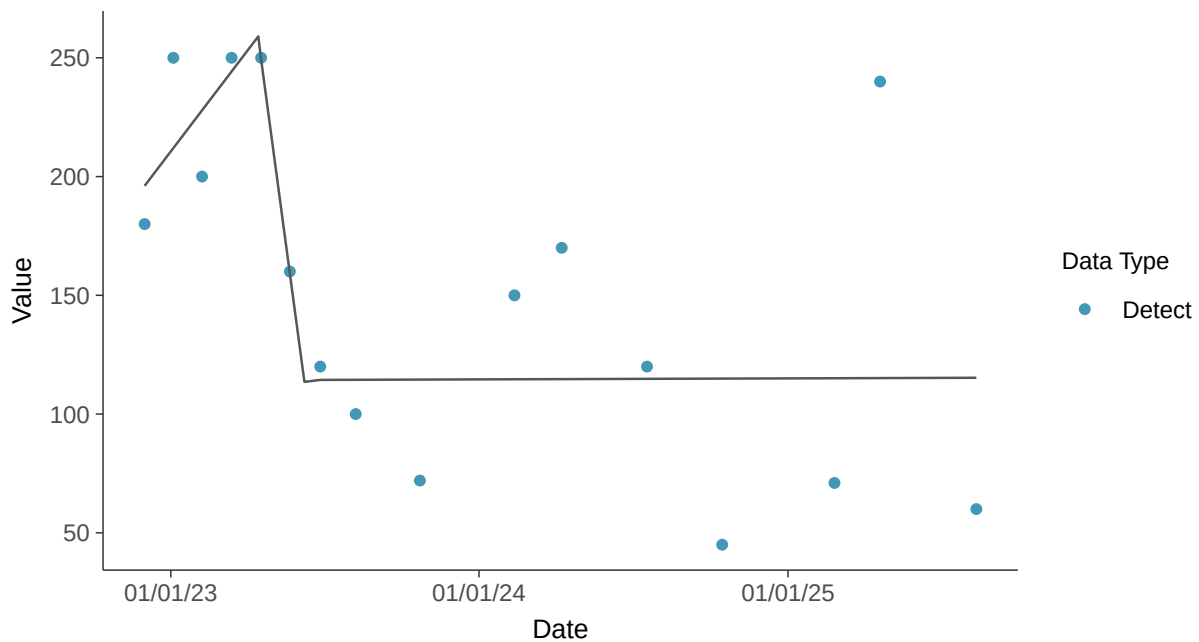
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-31 (mg/L)

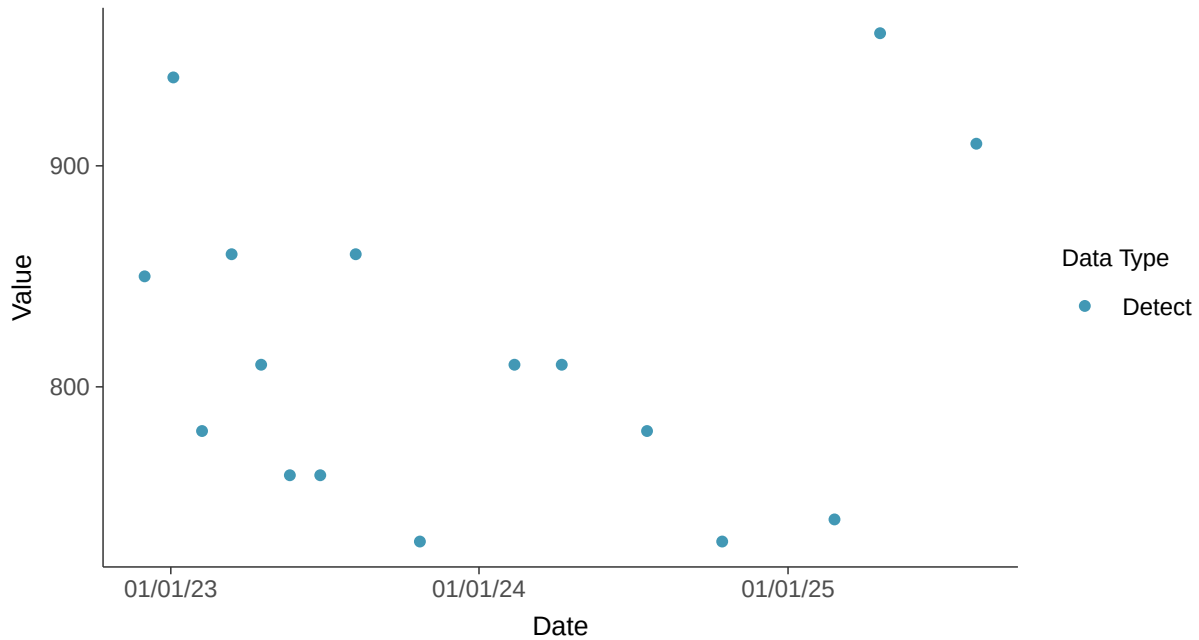


Appendix III: Total Dissolved Solids, MW-31

ID: 41_1_3_126

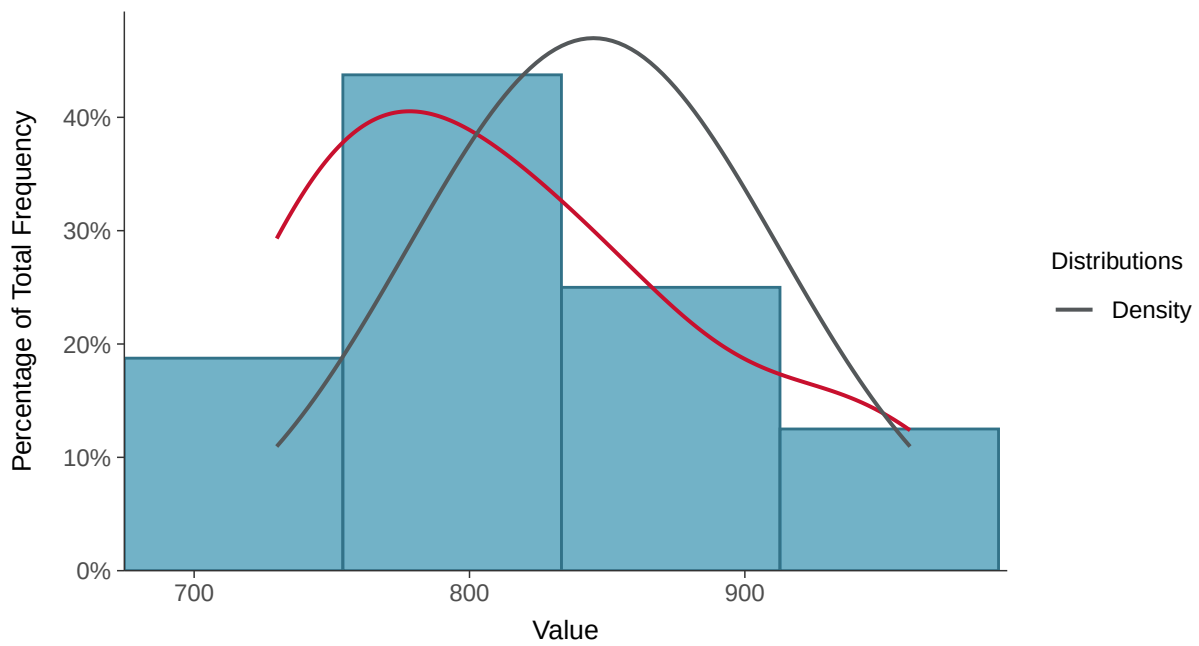
Scatter Plot

Total Dissolved Solids, MW-31 (mg/L)



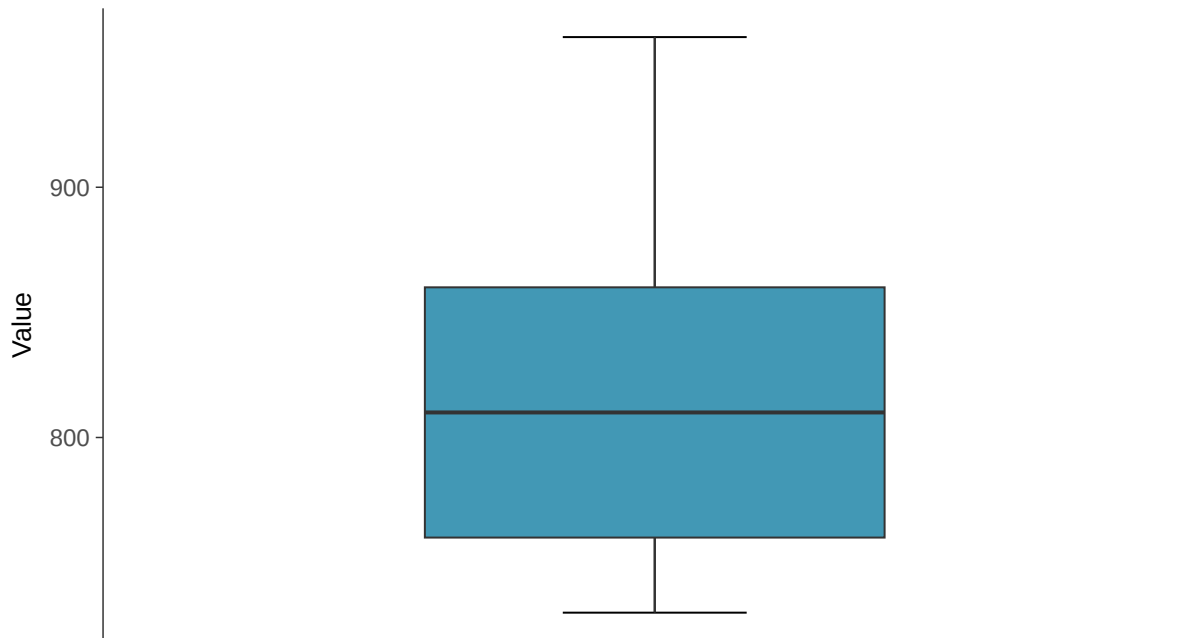
Histogram

Total Dissolved Solids, MW-31 (mg/L)



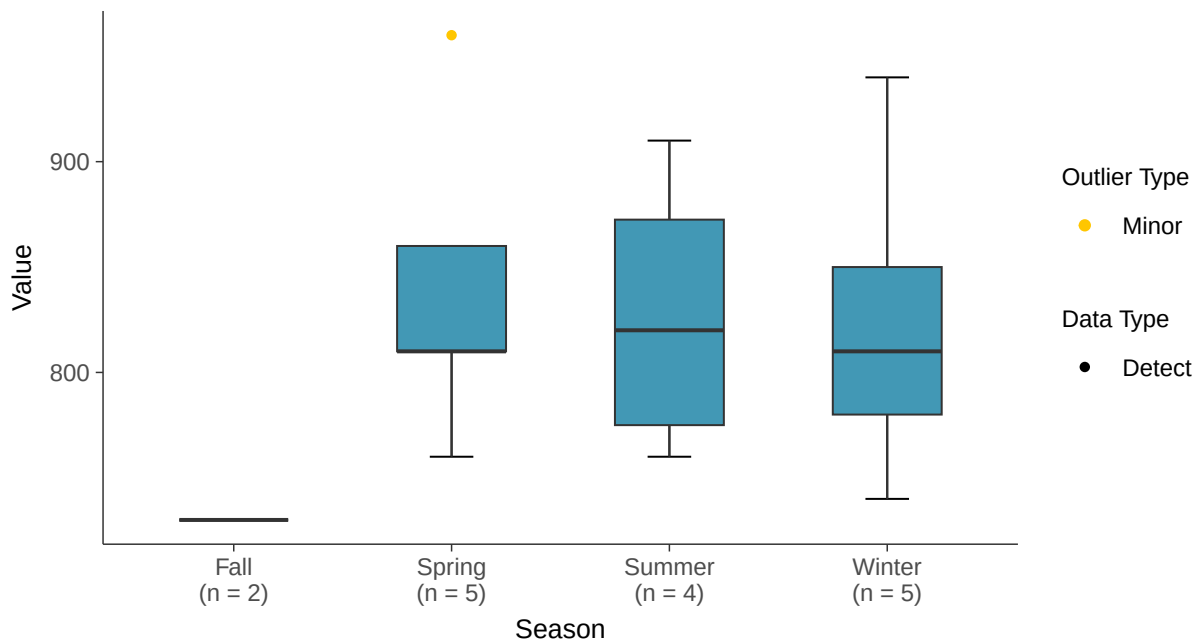
Boxplot

Total Dissolved Solids, MW-31 (mg/L)



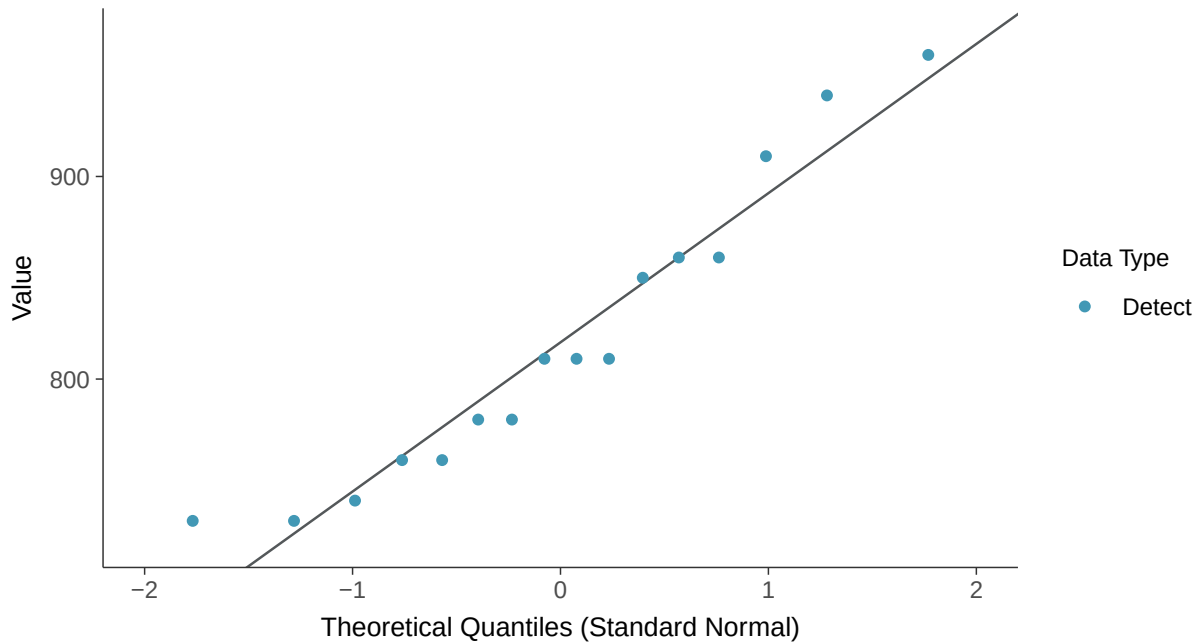
Boxplot by Season

Total Dissolved Solids, MW-31 (mg/L)



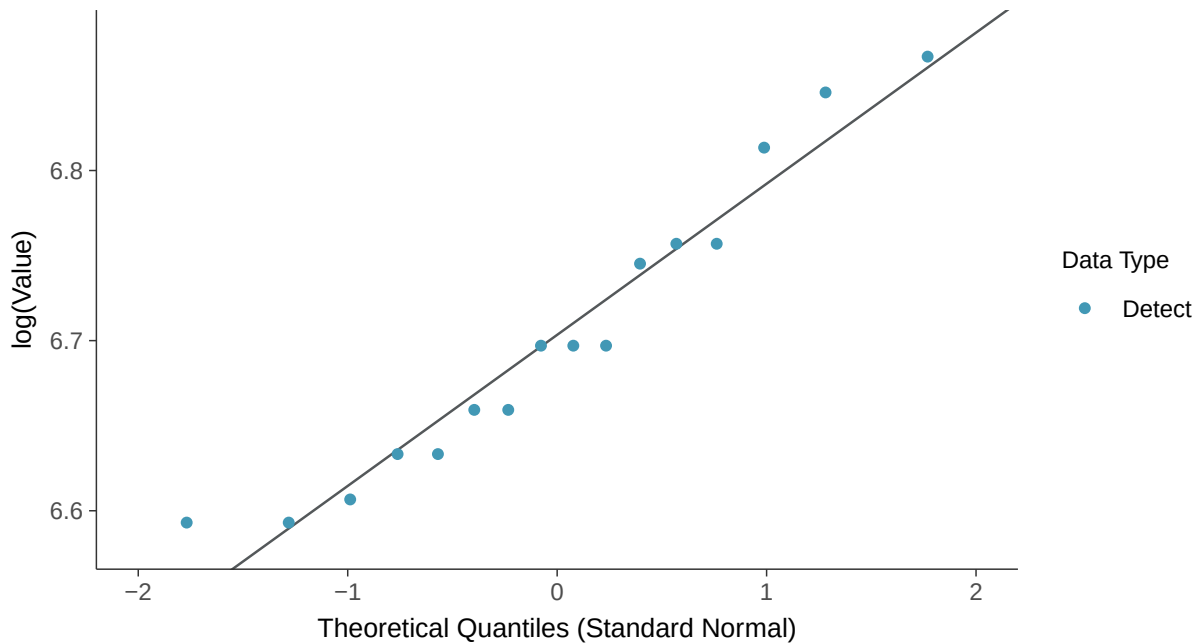
Normal Q-Q plot

Total Dissolved Solids, MW-31 (mg/L)



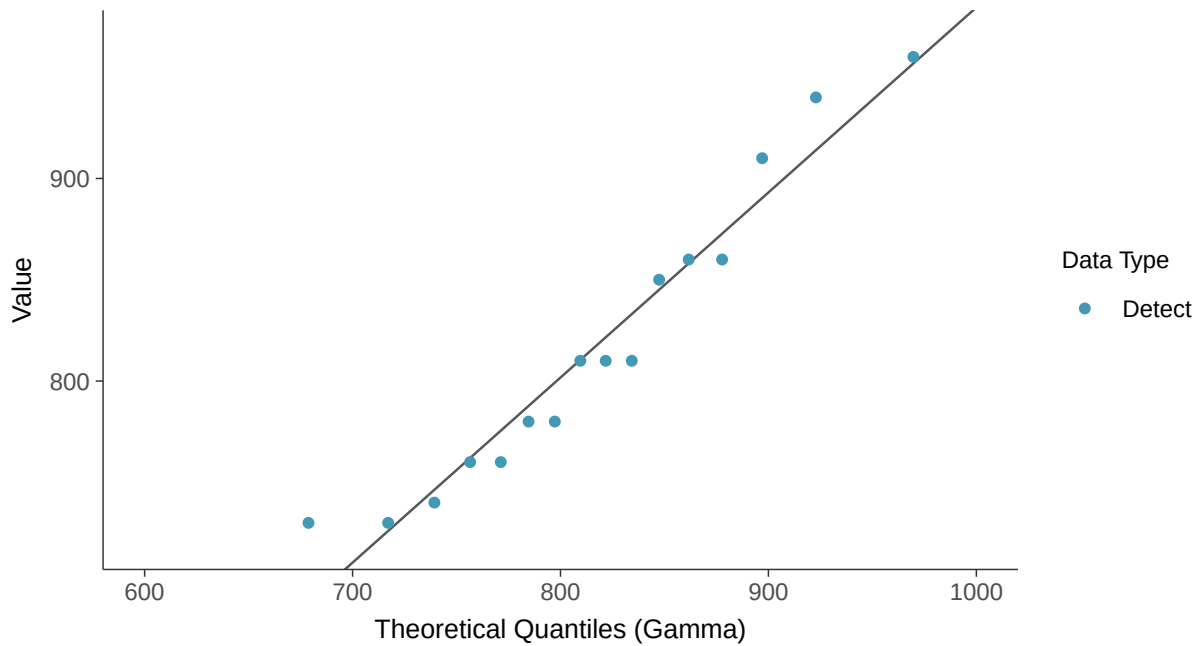
Lognormal Q-Q plot

Total Dissolved Solids, MW-31 (mg/L)



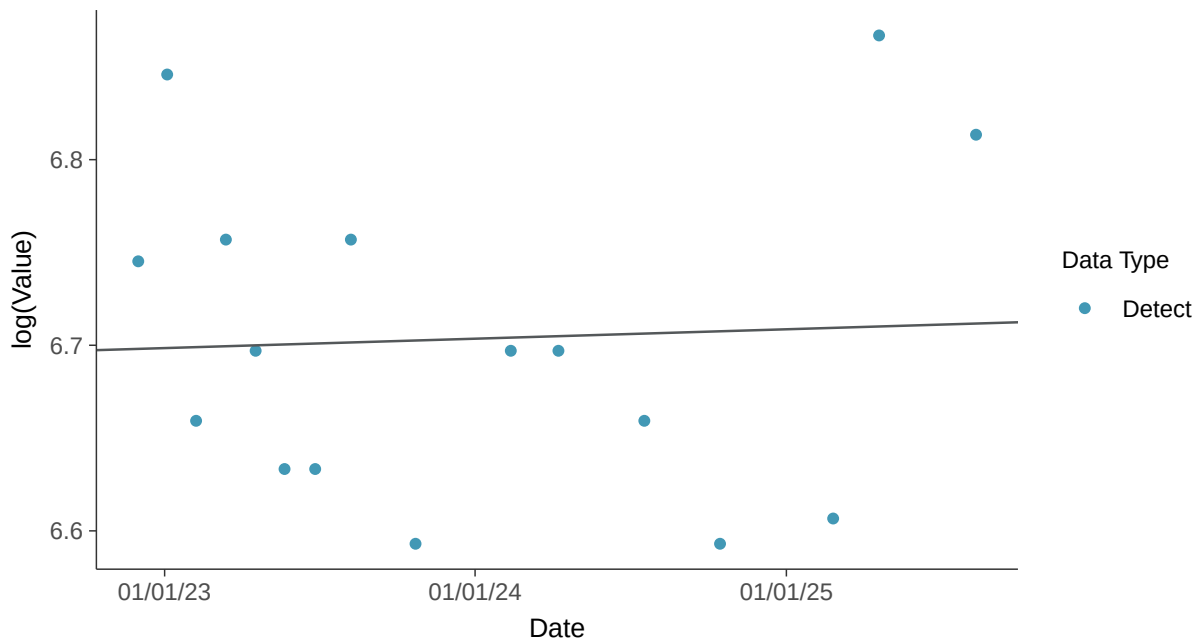
Gamma Q-Q plot

Total Dissolved Solids, MW-31 (mg/L)



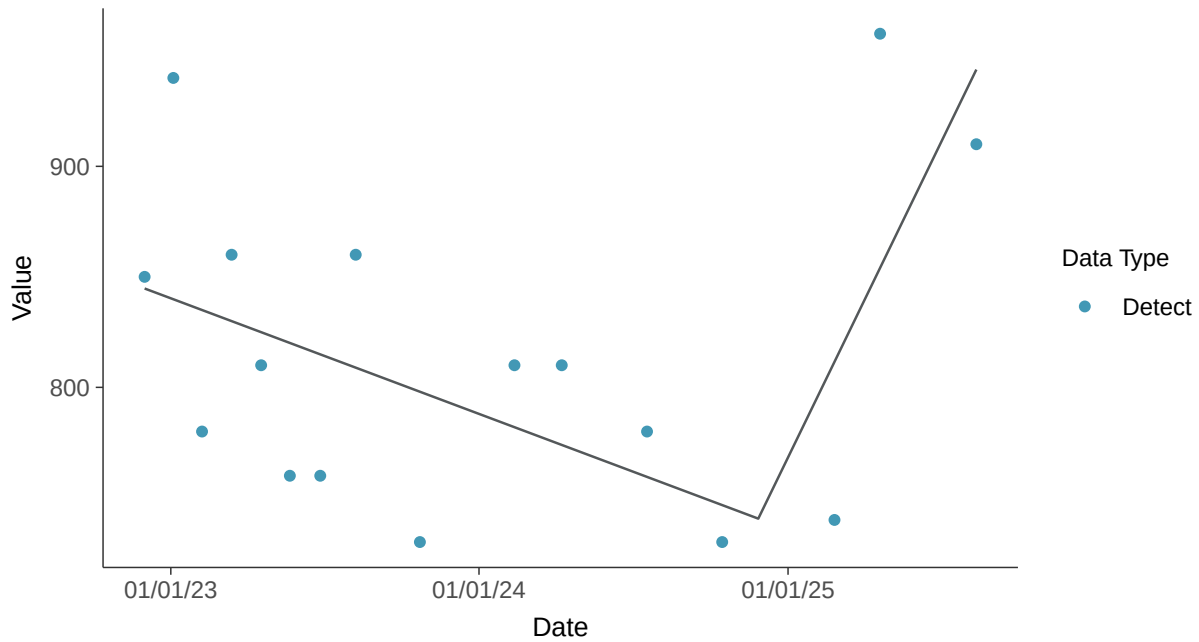
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-31 (mg/L)



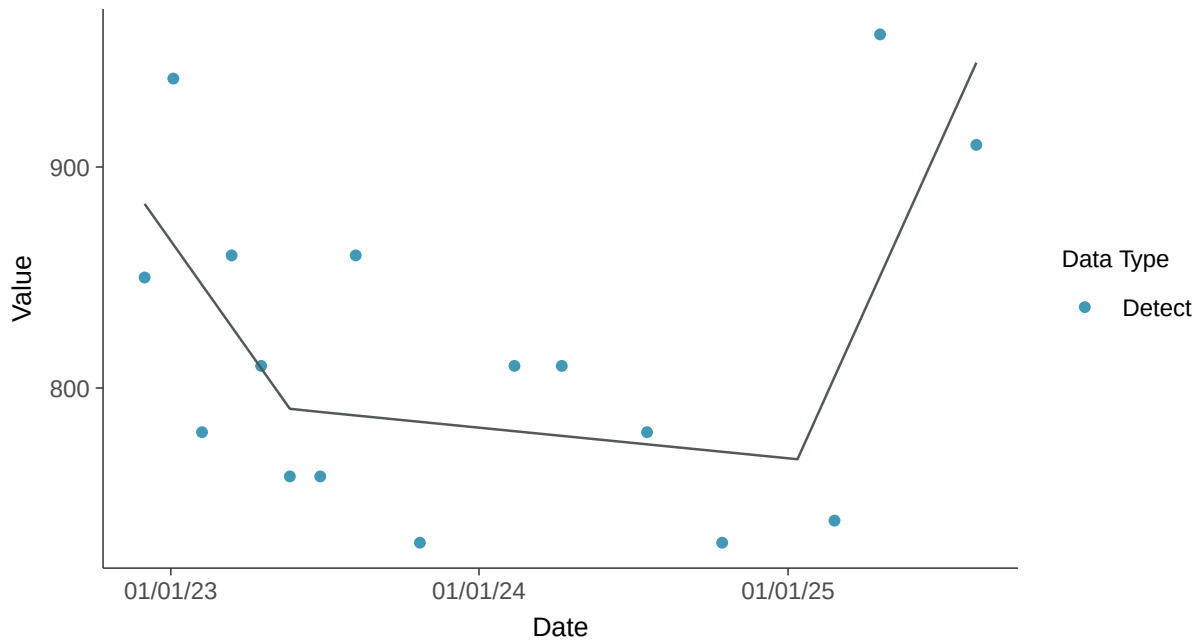
Trend Regression: Piecewise Linear-Linear

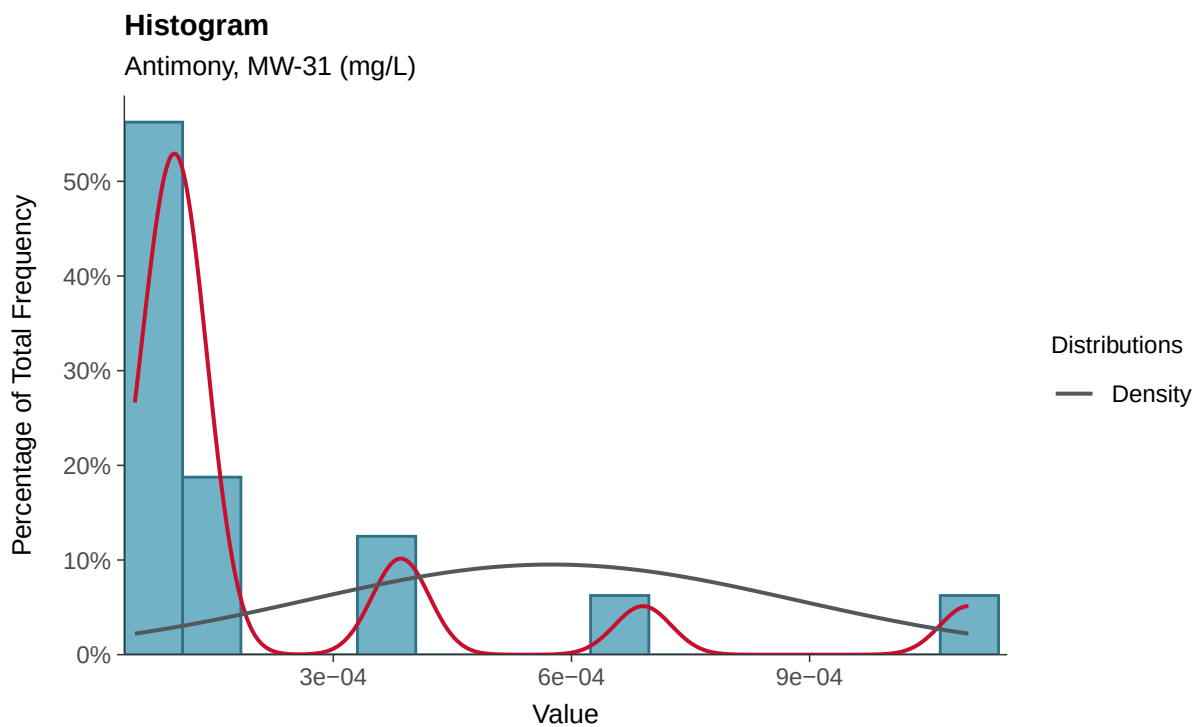
Total Dissolved Solids, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

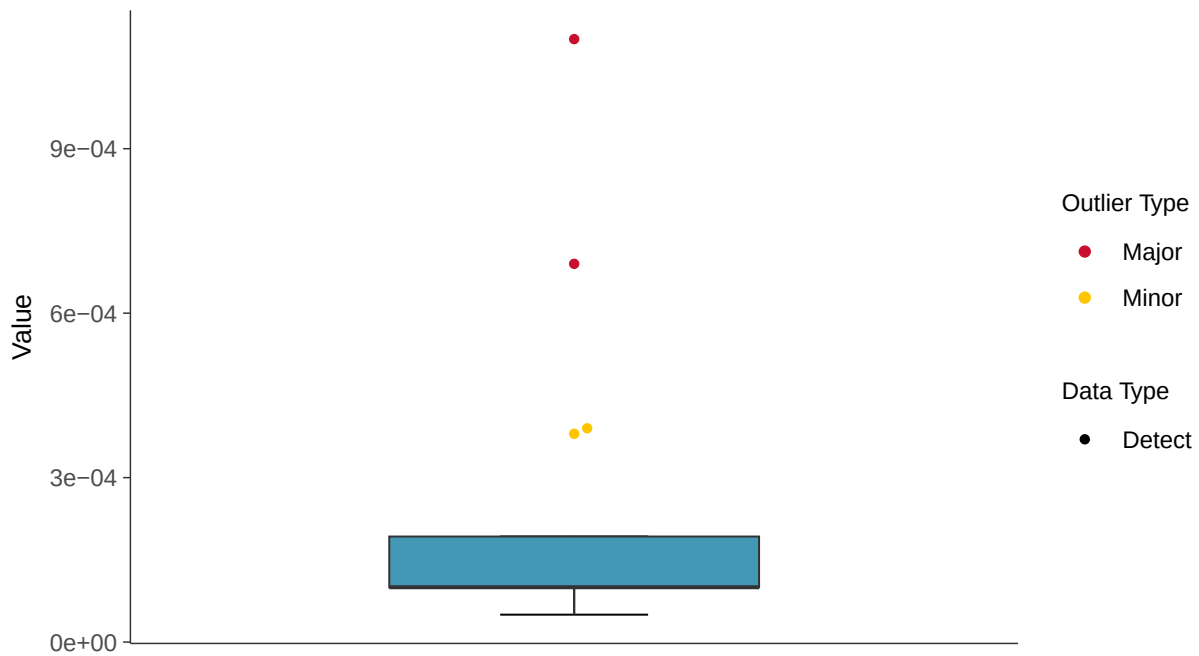
Total Dissolved Solids, MW-31 (mg/L)





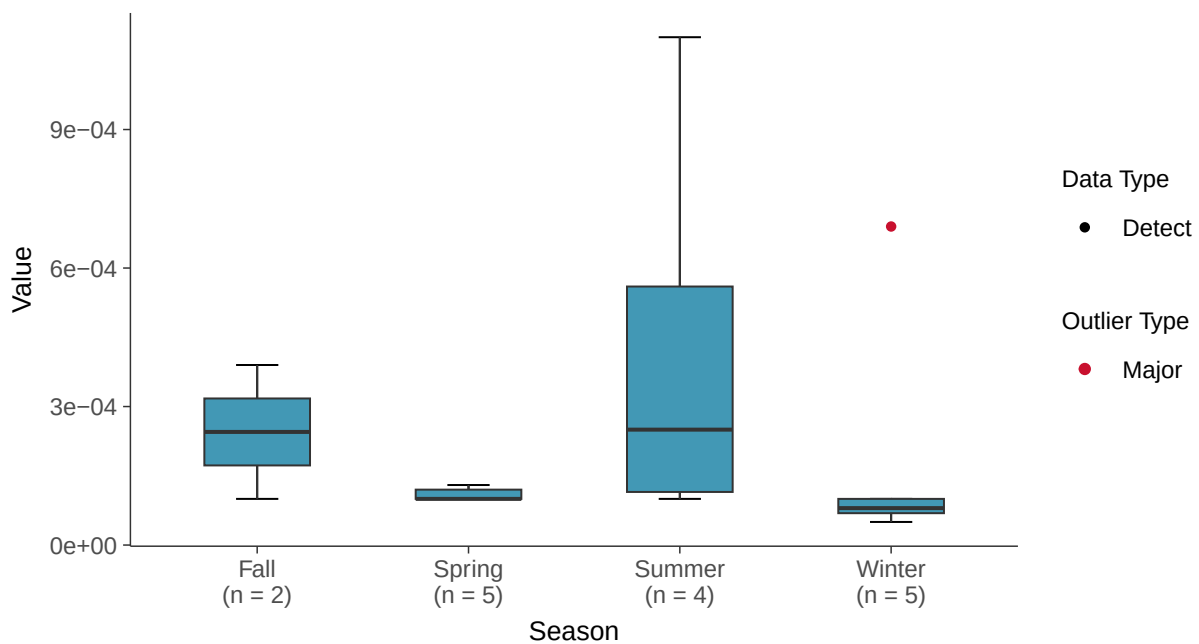
Boxplot

Antimony, MW-31 (mg/L)



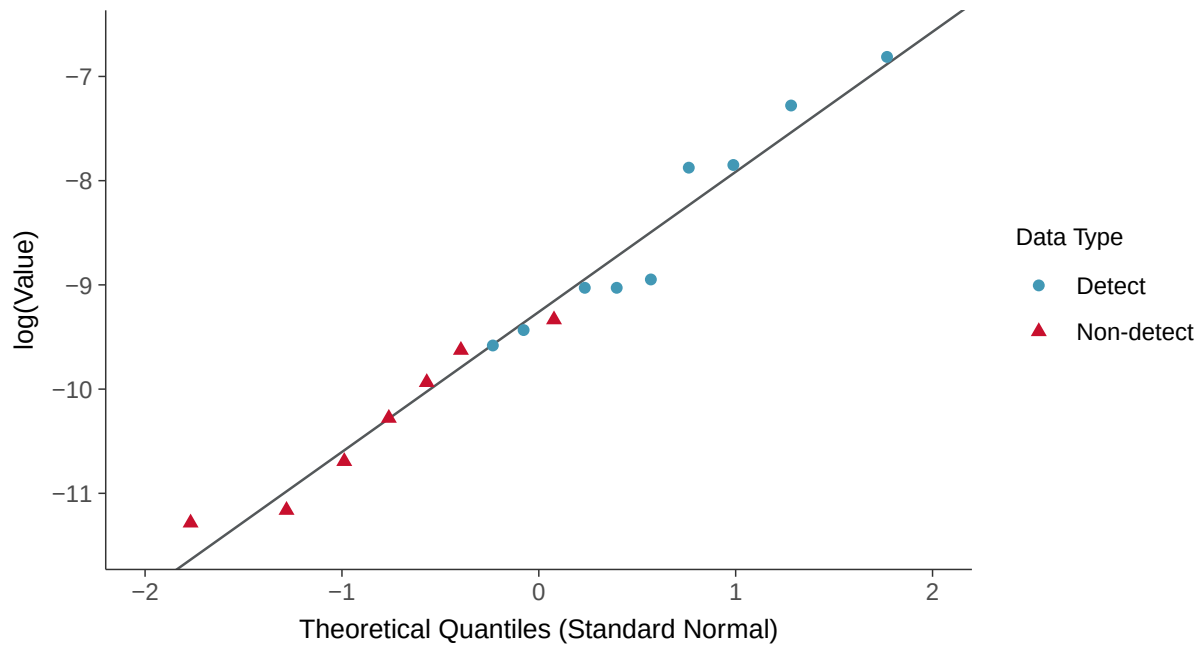
Boxplot by Season

Antimony, MW-31 (mg/L)



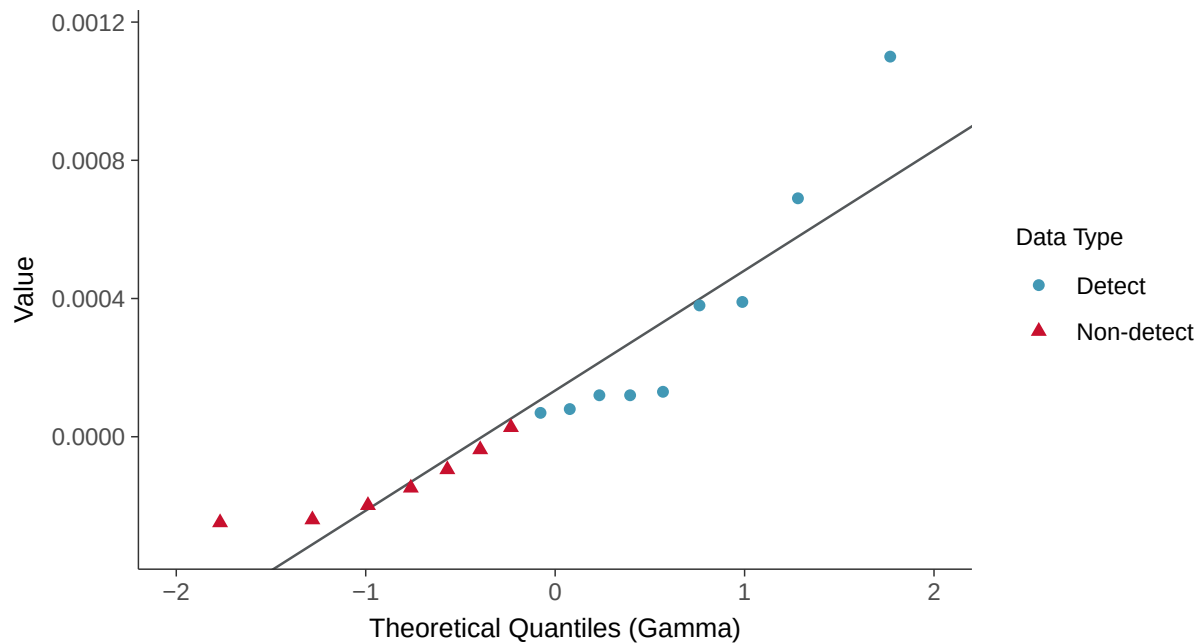
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-31 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

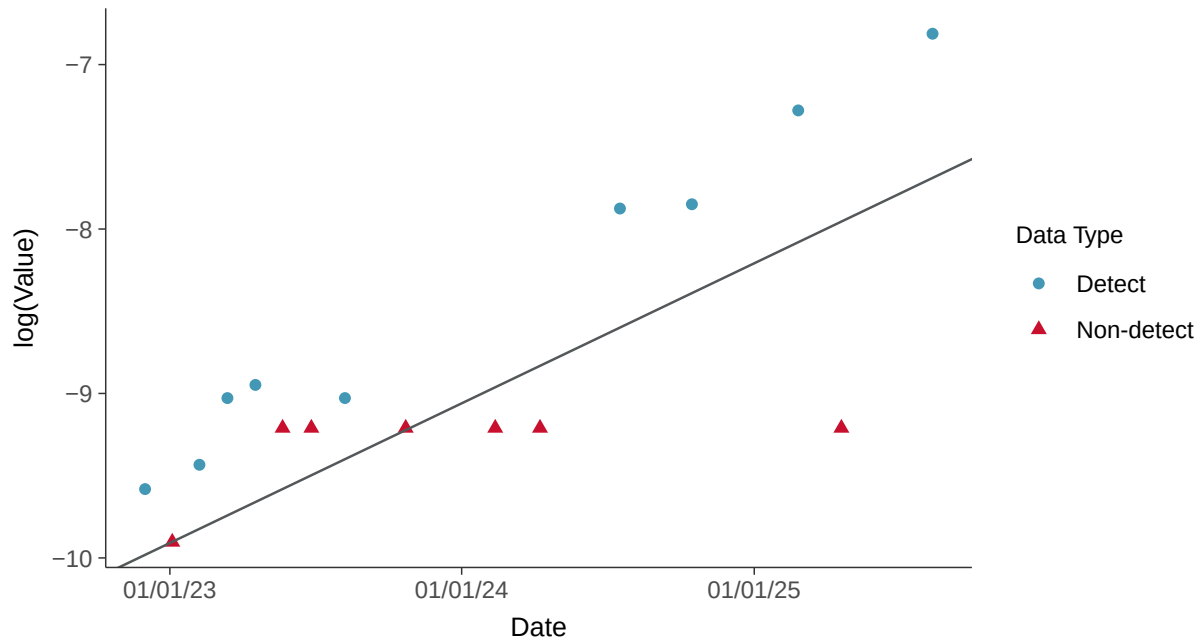
Antimony, MW-31 (mg/L)





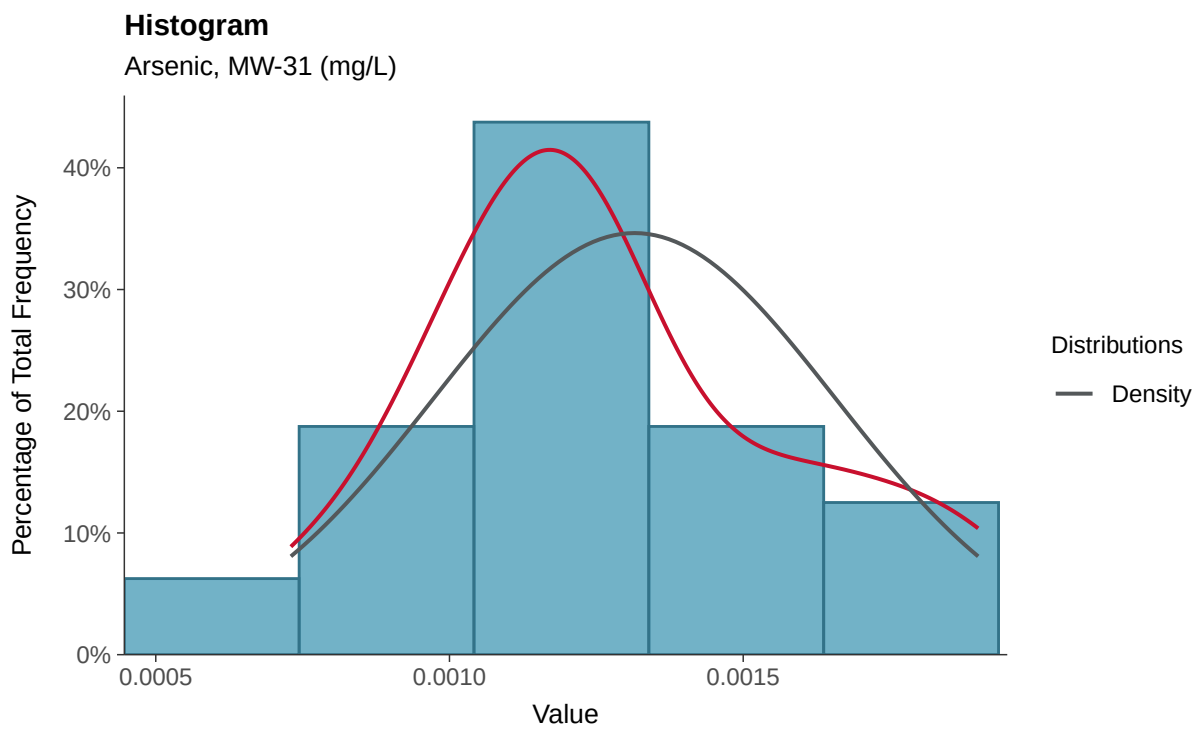
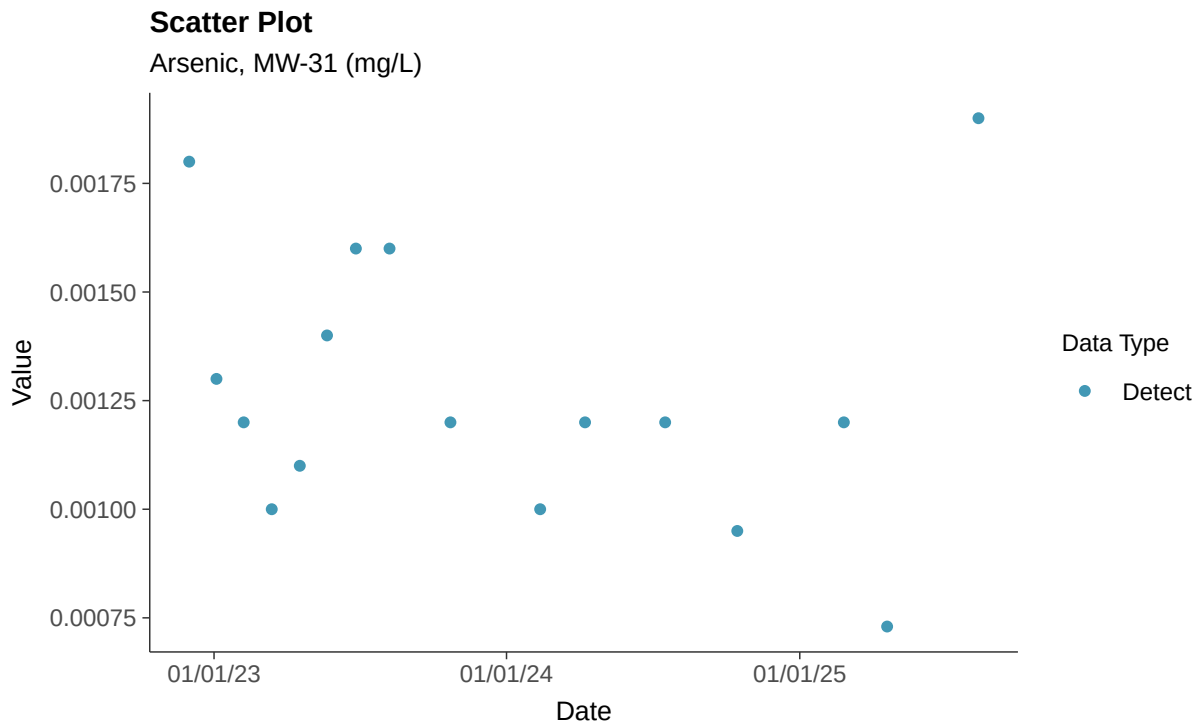
Trend Regression: Lognormal MLE

Antimony, MW-31 (mg/L)



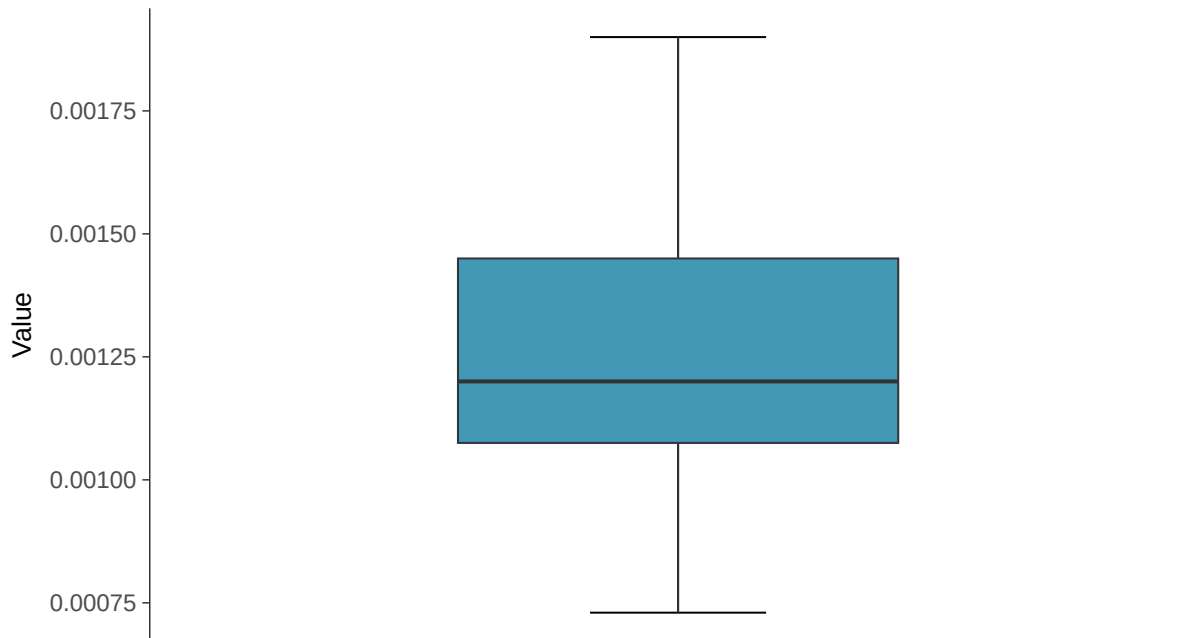
Appendix IV: Arsenic, MW-31

ID: 41_1_4_102



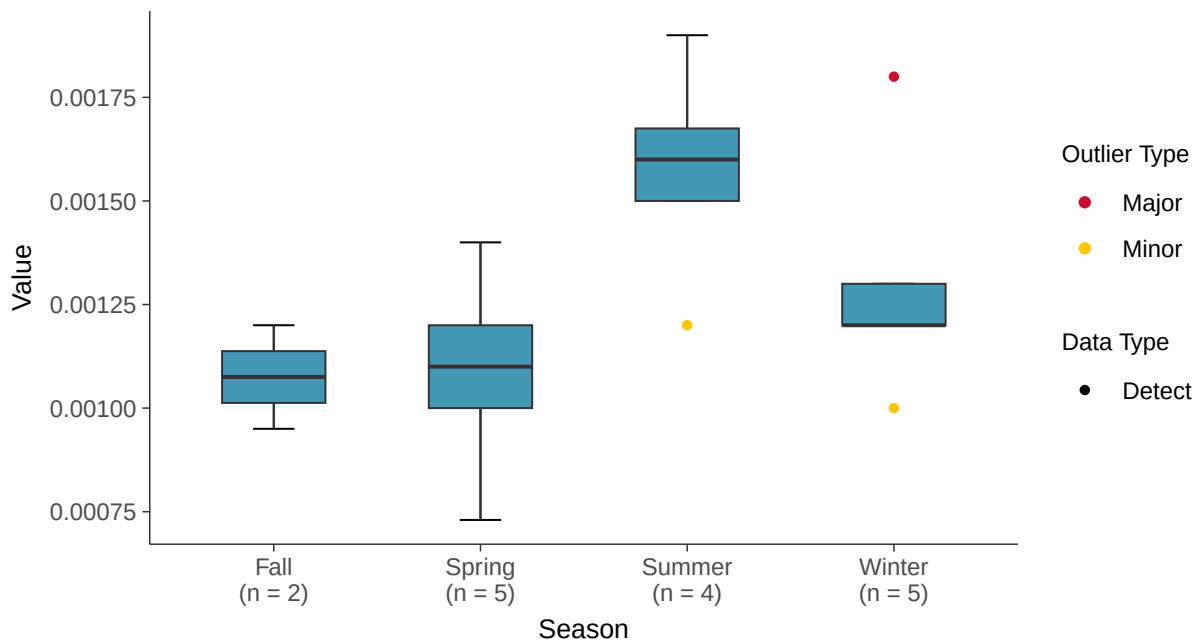
Boxplot

Arsenic, MW-31 (mg/L)



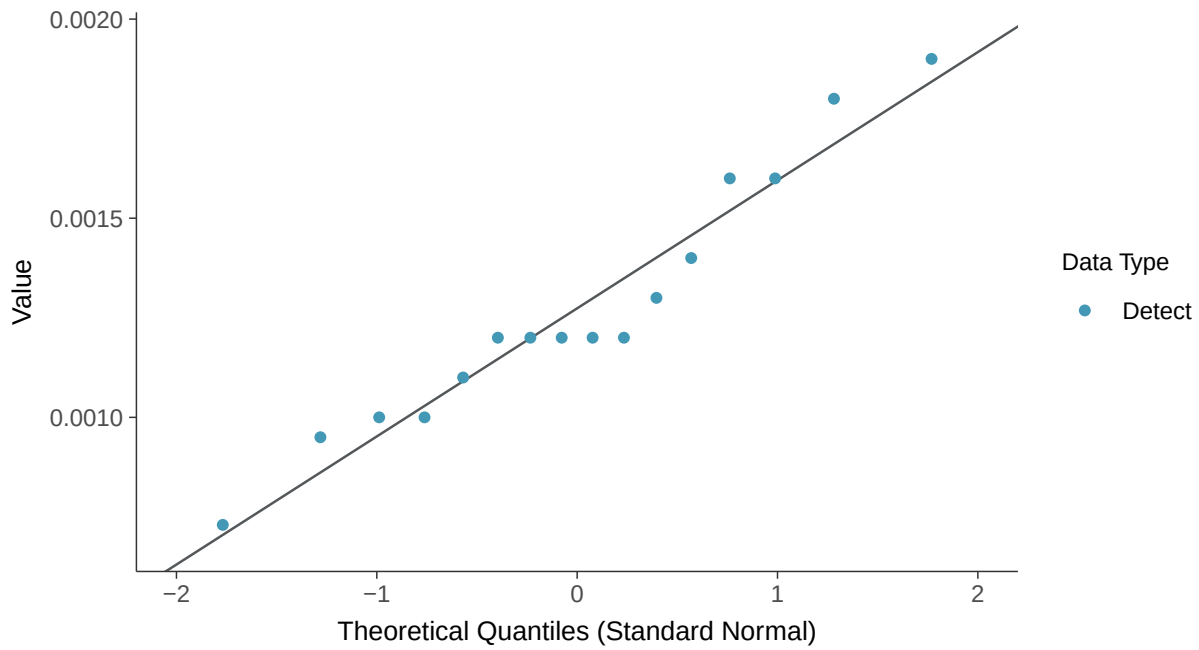
Boxplot by Season

Arsenic, MW-31 (mg/L)



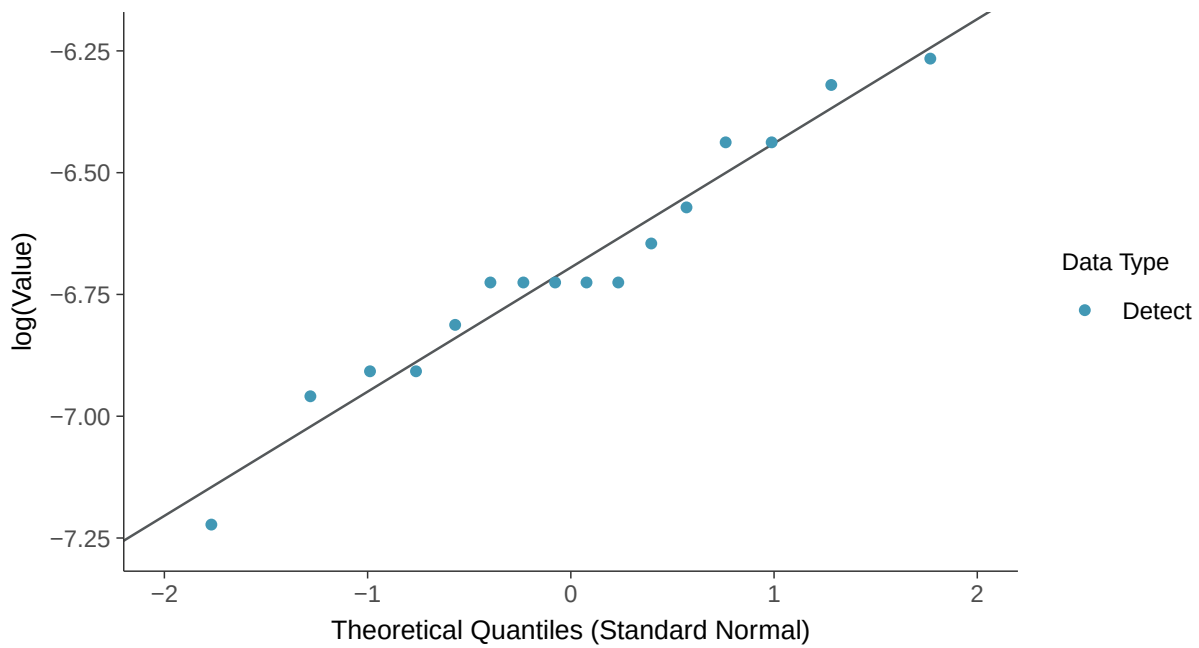
Normal Q-Q plot

Arsenic, MW-31 (mg/L)



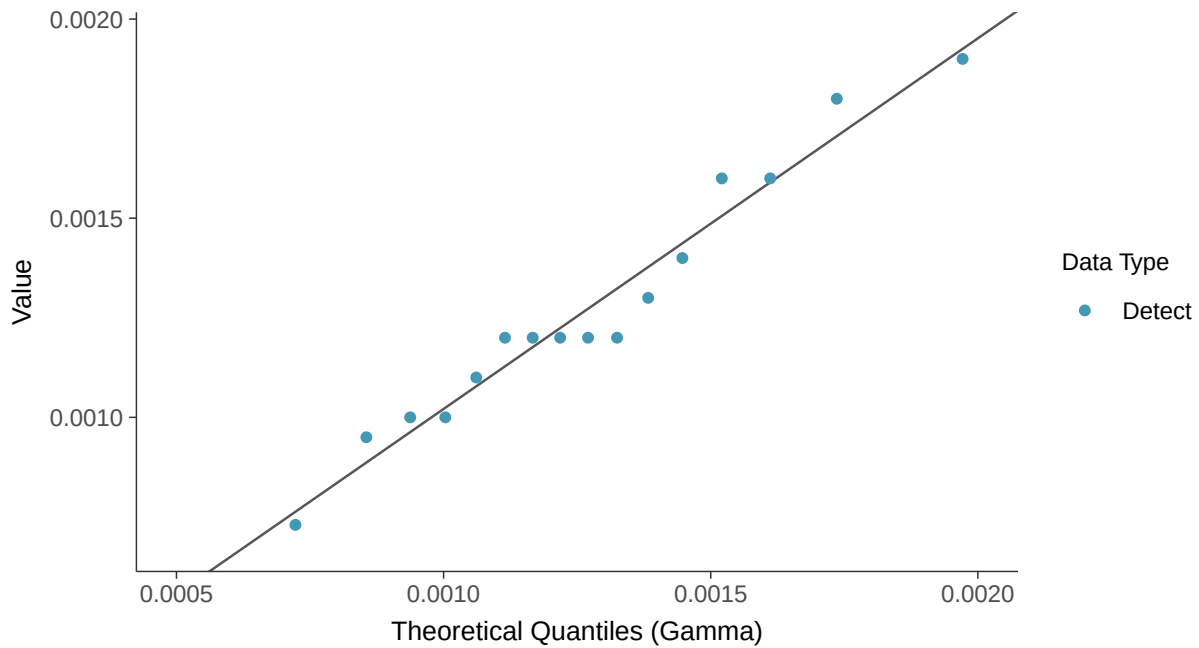
Lognormal Q-Q plot

Arsenic, MW-31 (mg/L)



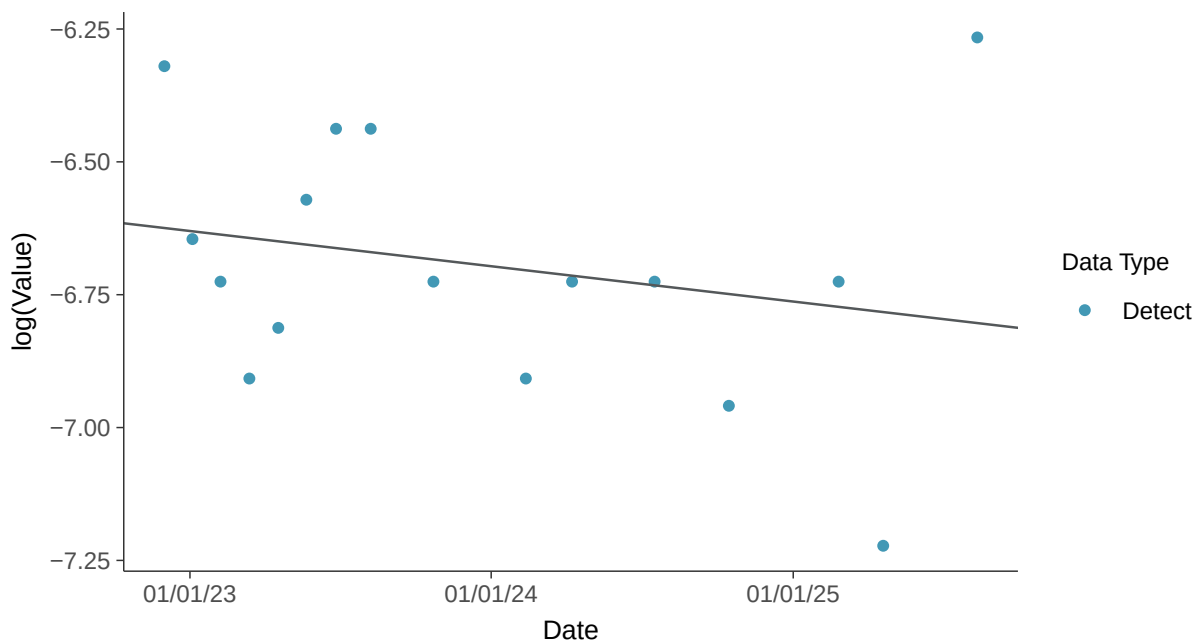
Gamma Q-Q plot

Arsenic, MW-31 (mg/L)



Trend Regression: Lognormal MLE

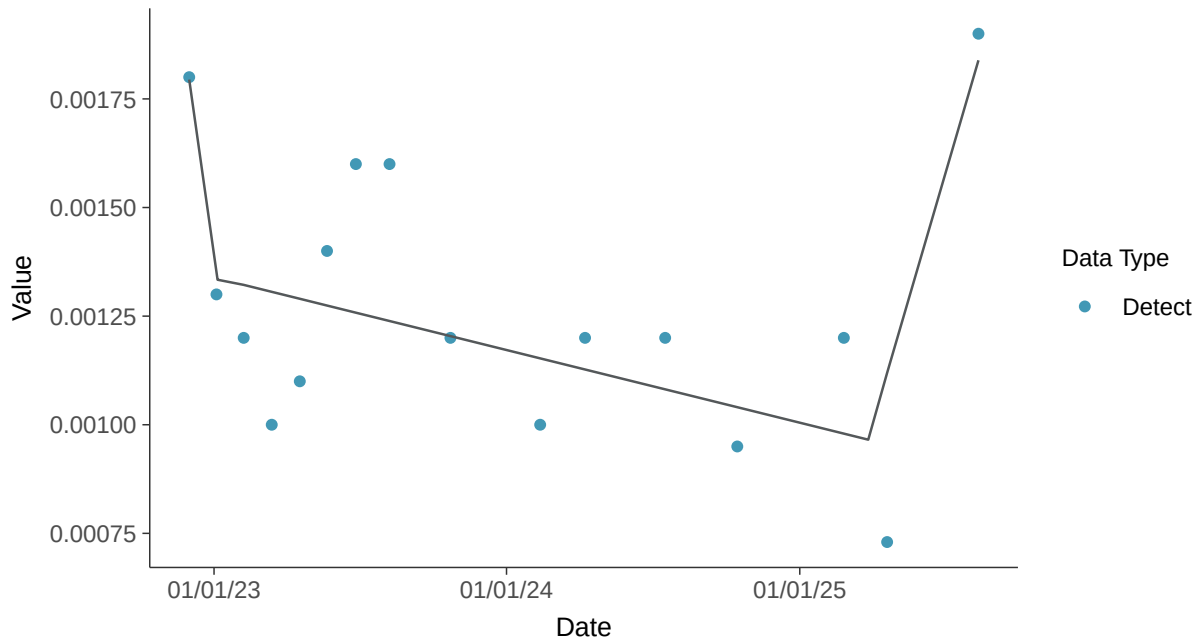
Arsenic, MW-31 (mg/L)





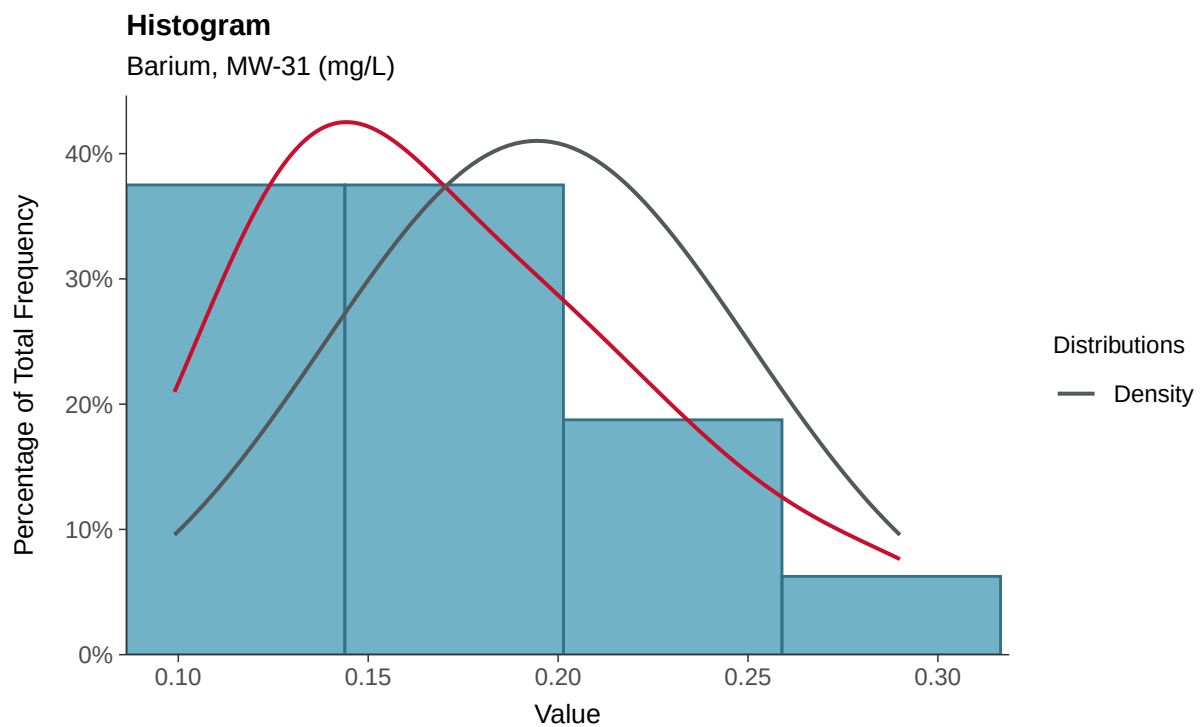
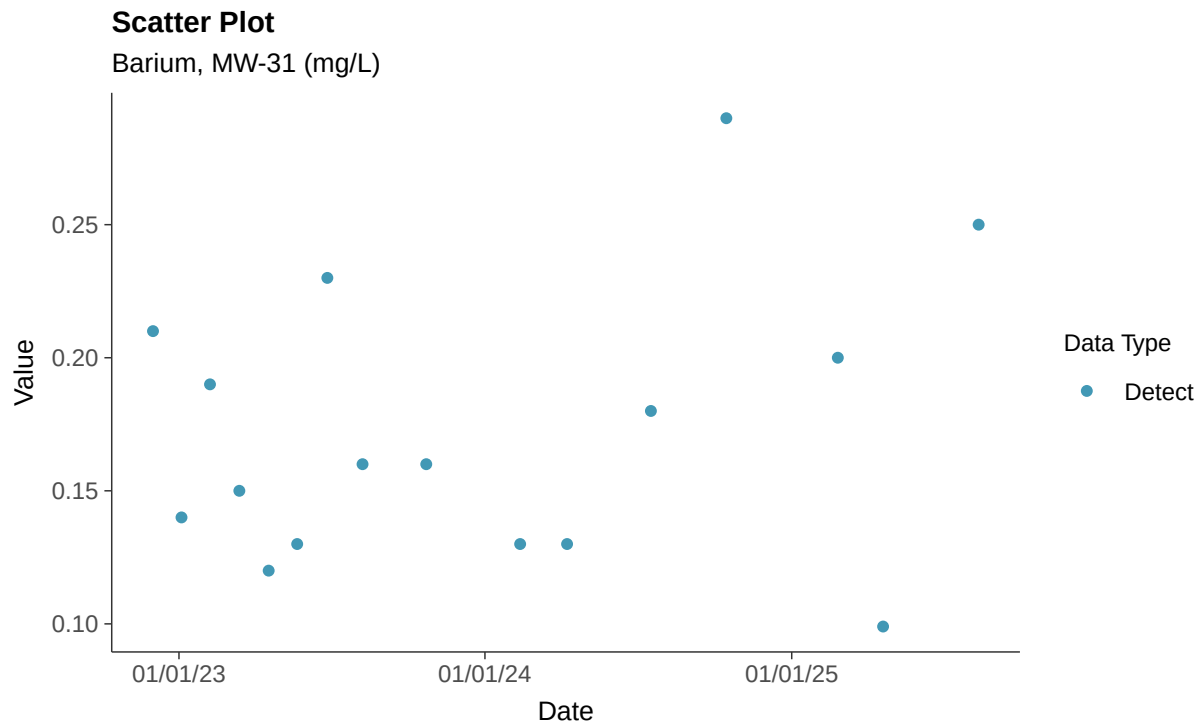
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-31 (mg/L)



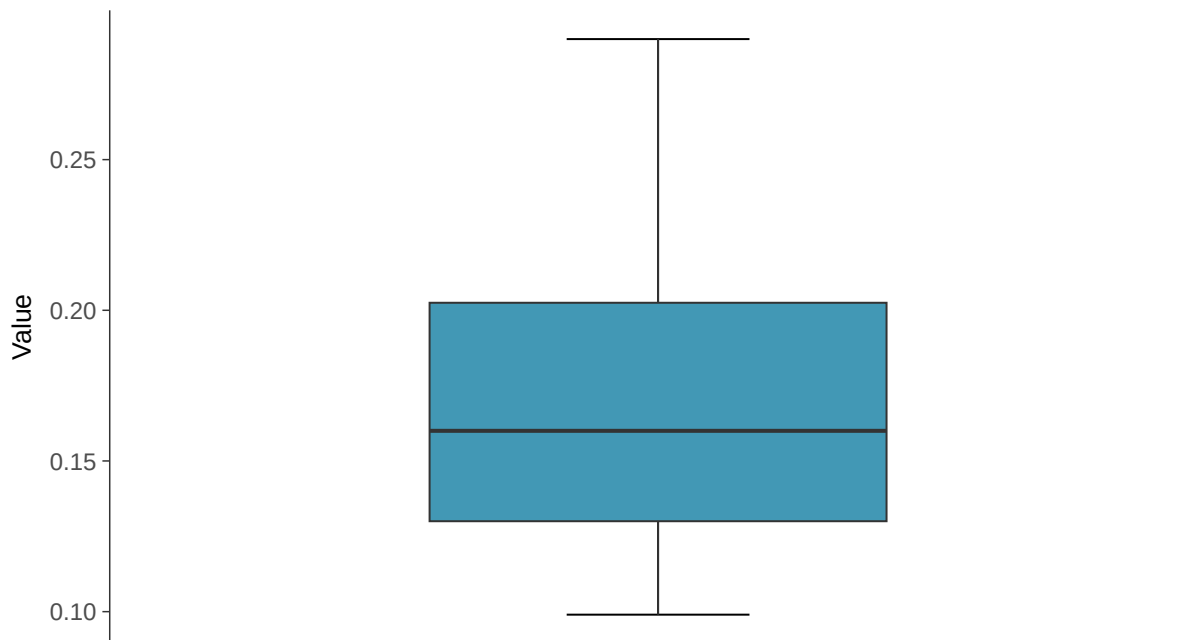
Appendix IV: Barium, MW-31

ID: 41_1_4_103



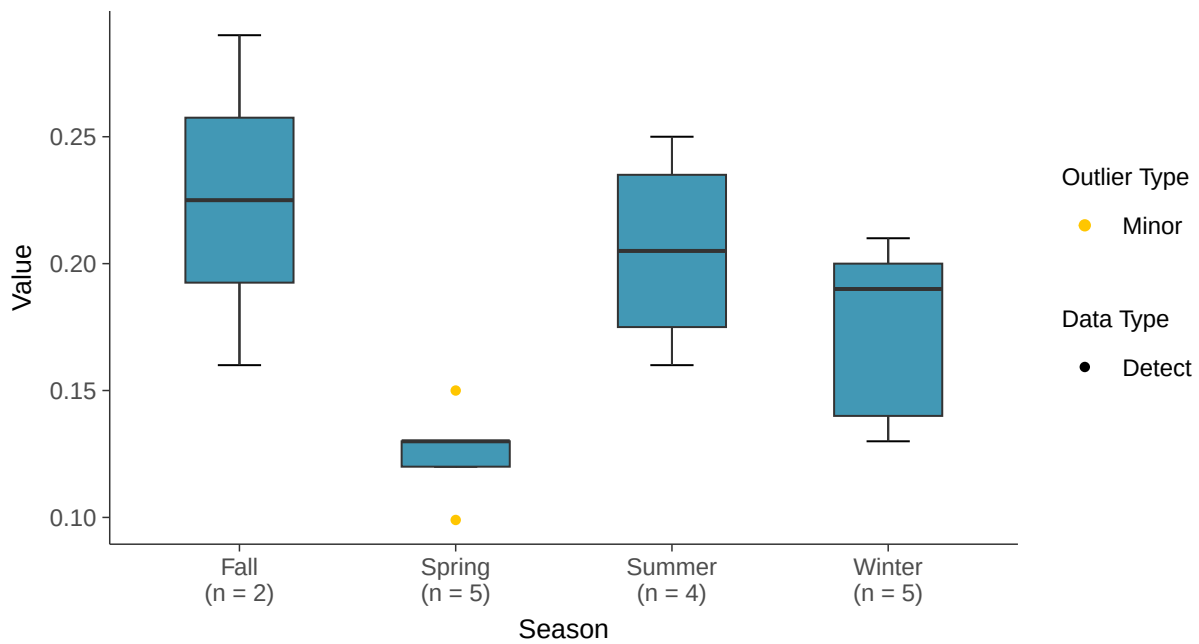
Boxplot

Barium, MW-31 (mg/L)



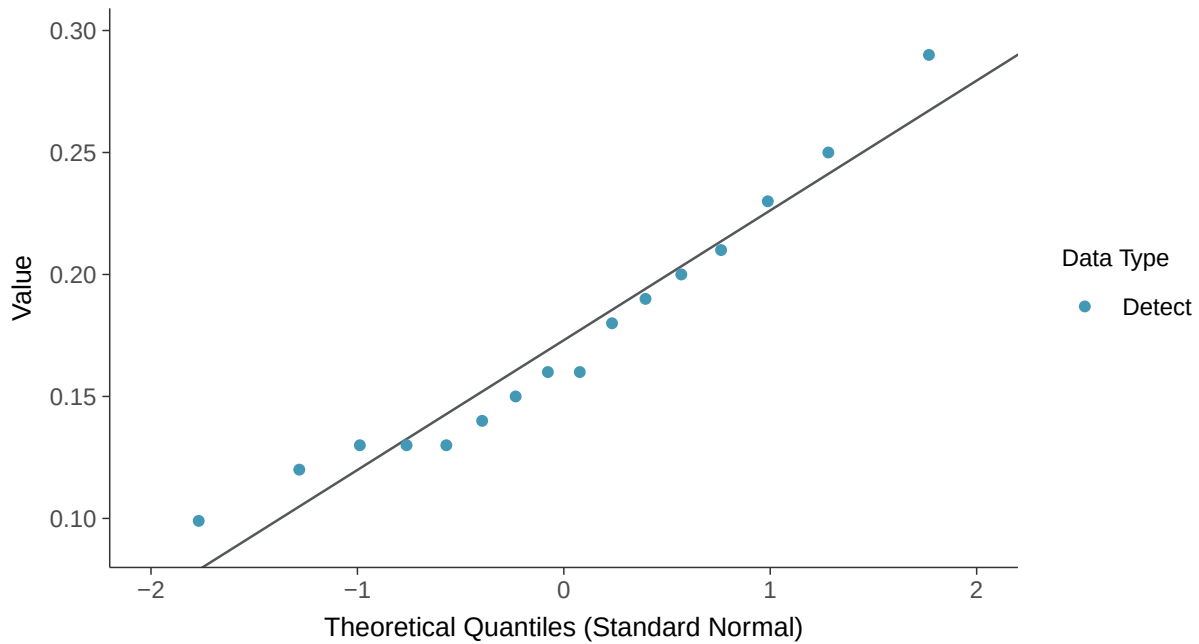
Boxplot by Season

Barium, MW-31 (mg/L)



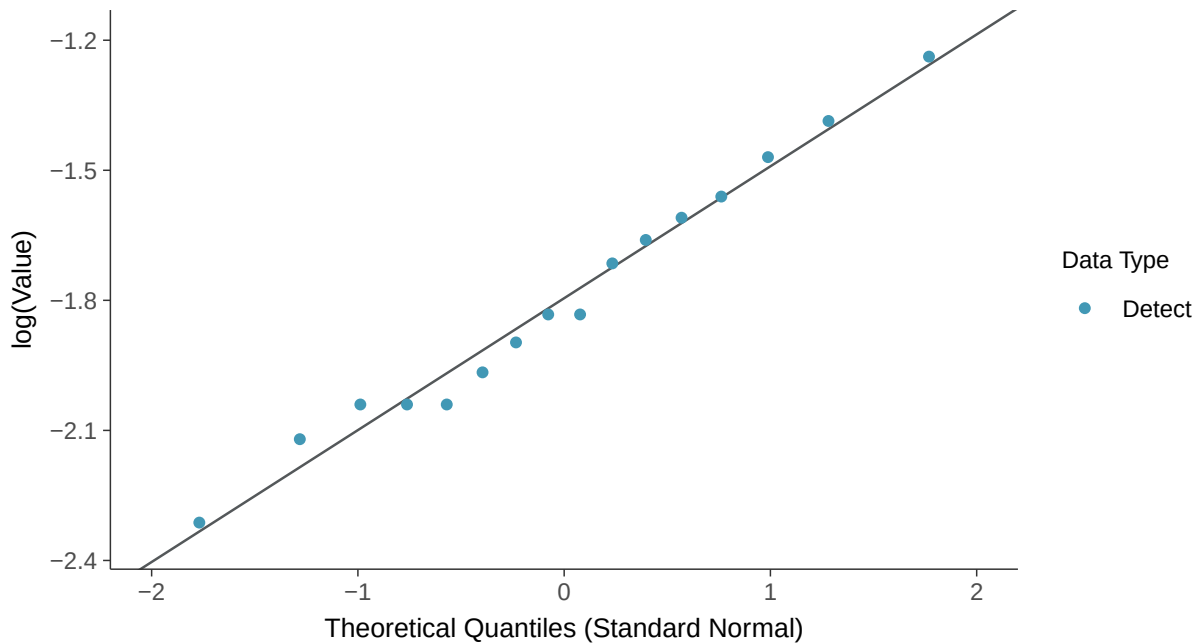
Normal Q-Q plot

Barium, MW-31 (mg/L)



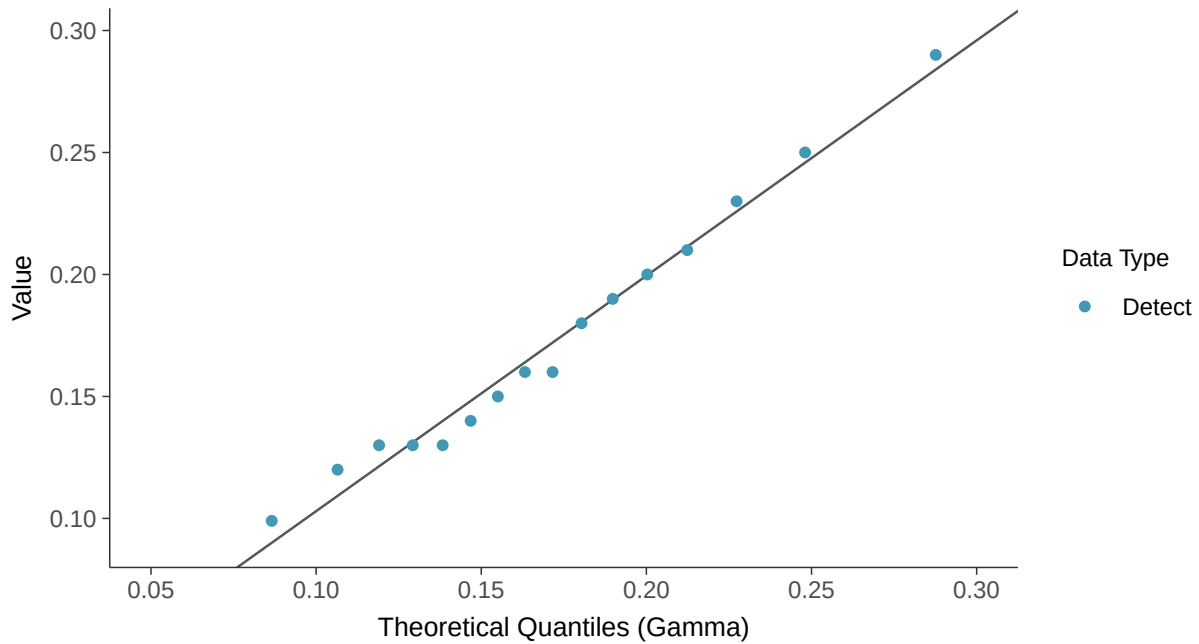
Lognormal Q-Q plot

Barium, MW-31 (mg/L)



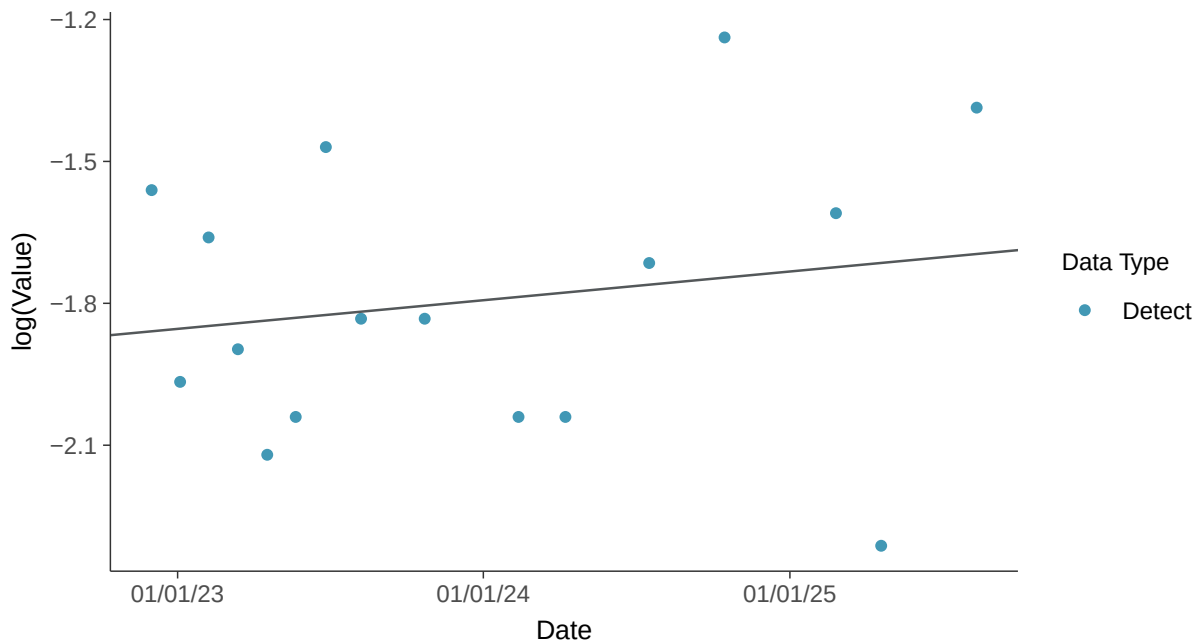
Gamma Q-Q plot

Barium, MW-31 (mg/L)



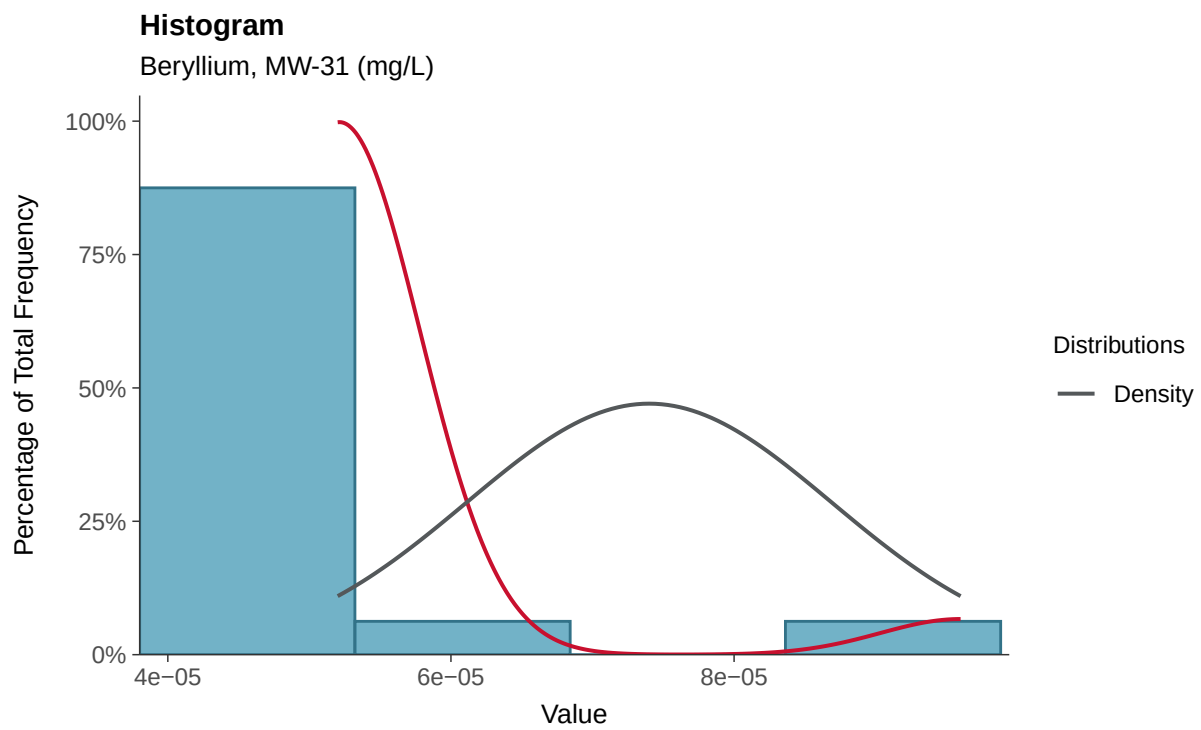
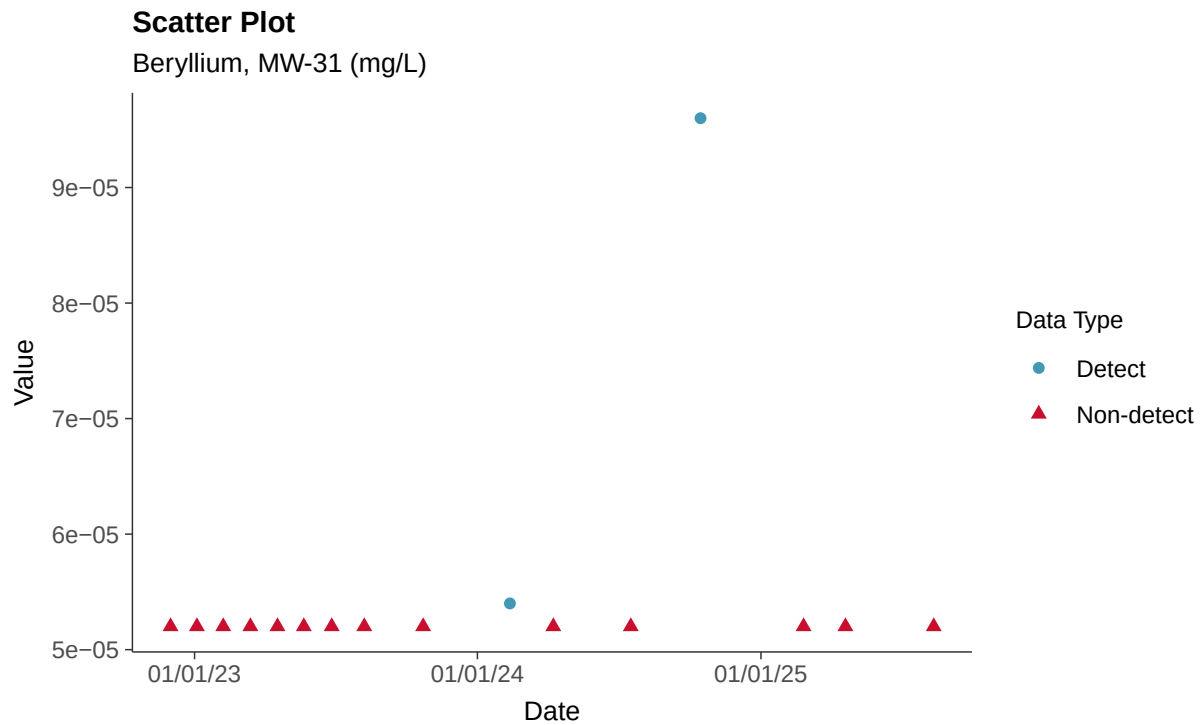
Trend Regression: Lognormal MLE

Barium, MW-31 (mg/L)

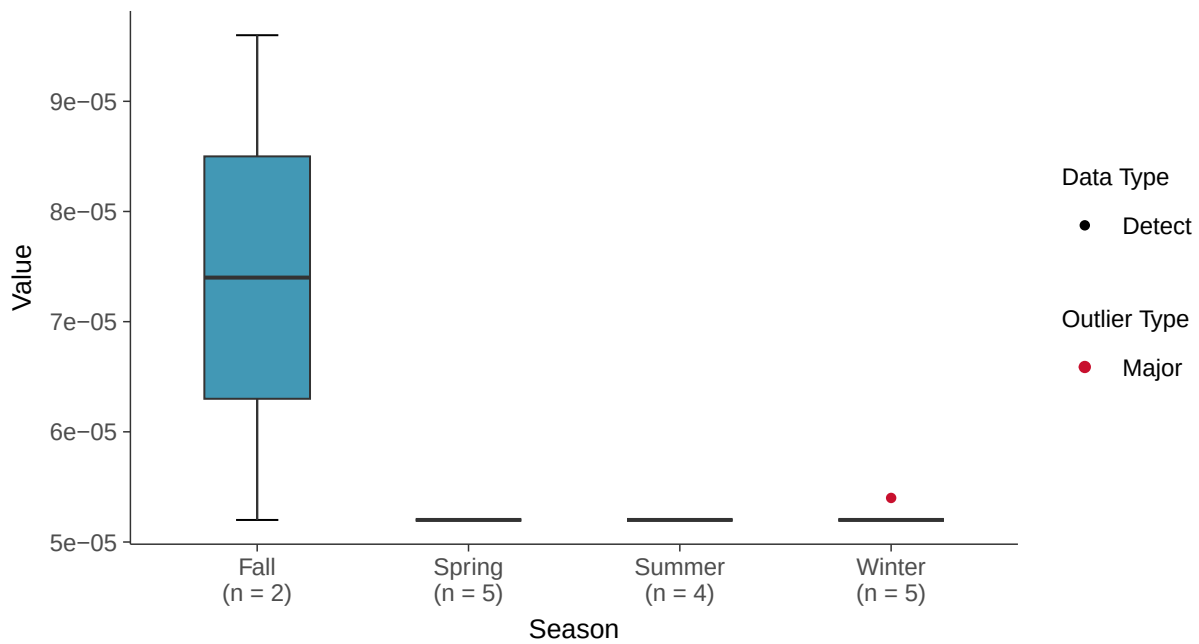


Appendix IV: Beryllium, MW-31

ID: 41_1_4_104

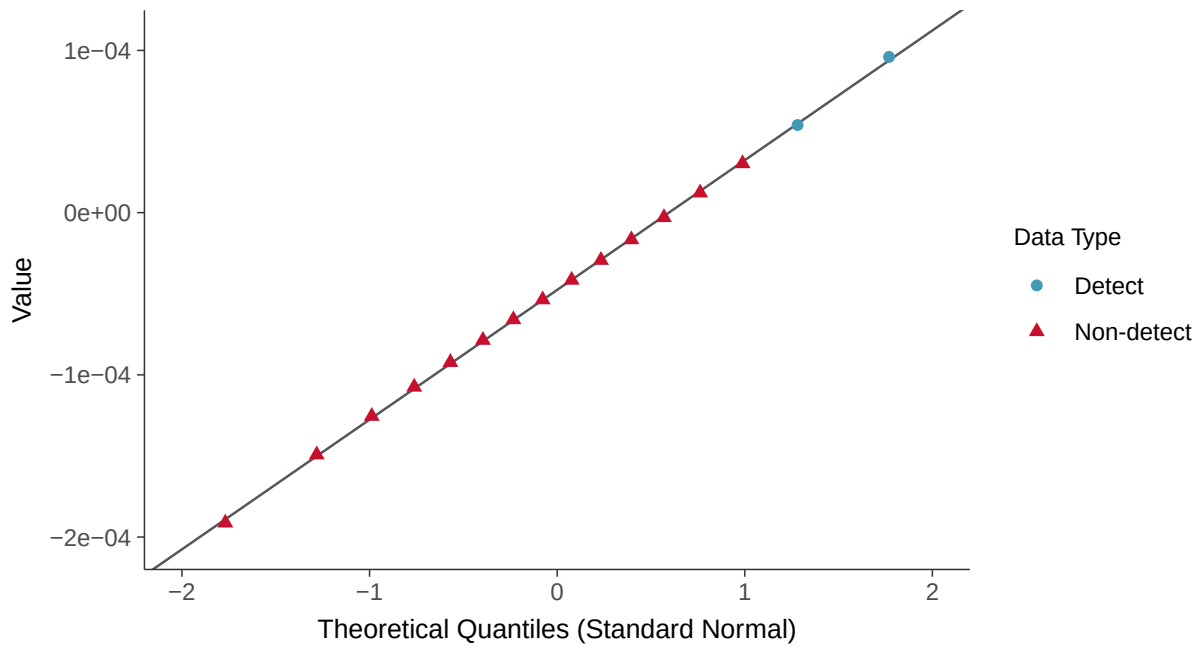


Beryllium, MW-31 (mg/L)



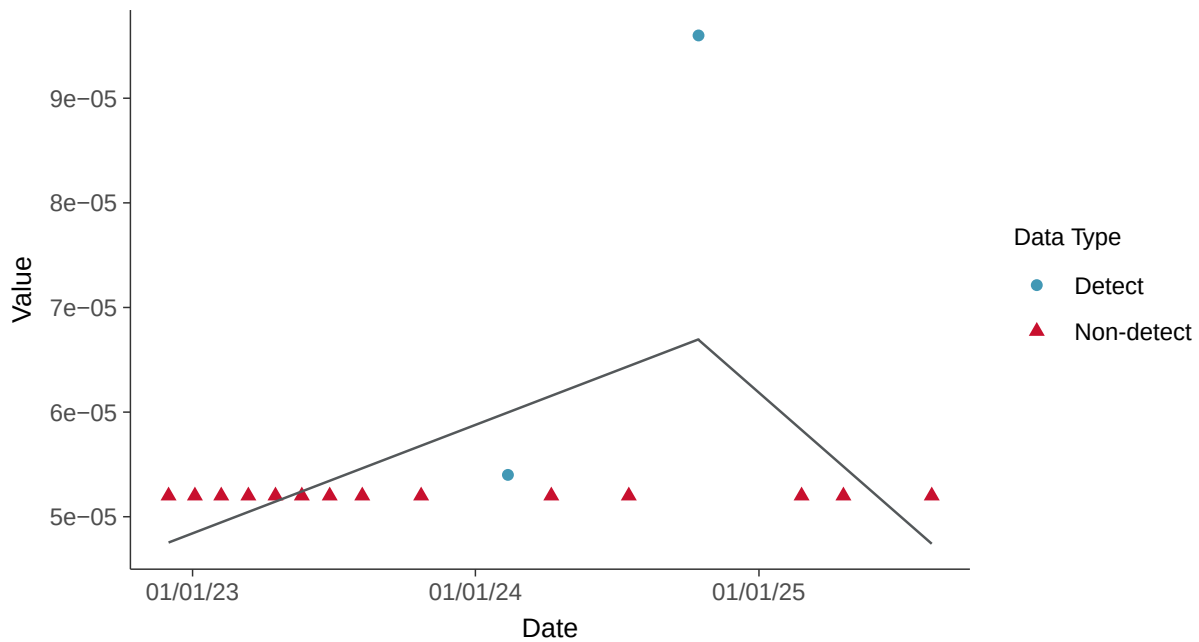
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-31 (mg/L)

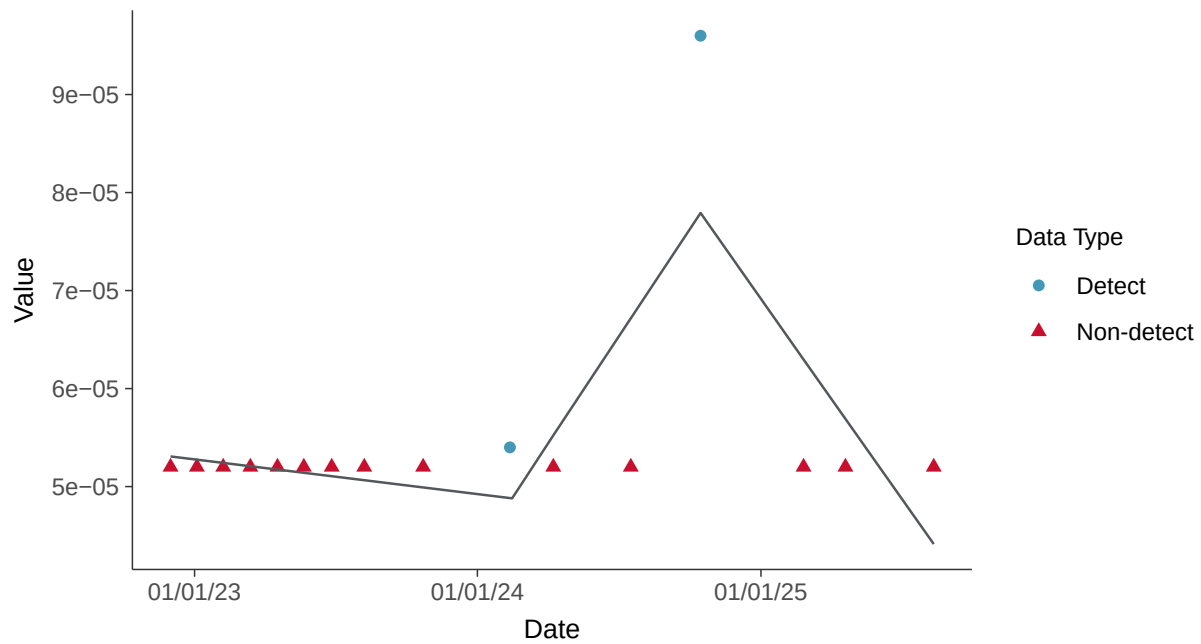


Trend Regression: Piecewise Linear-Linear

Beryllium, MW-31 (mg/L)

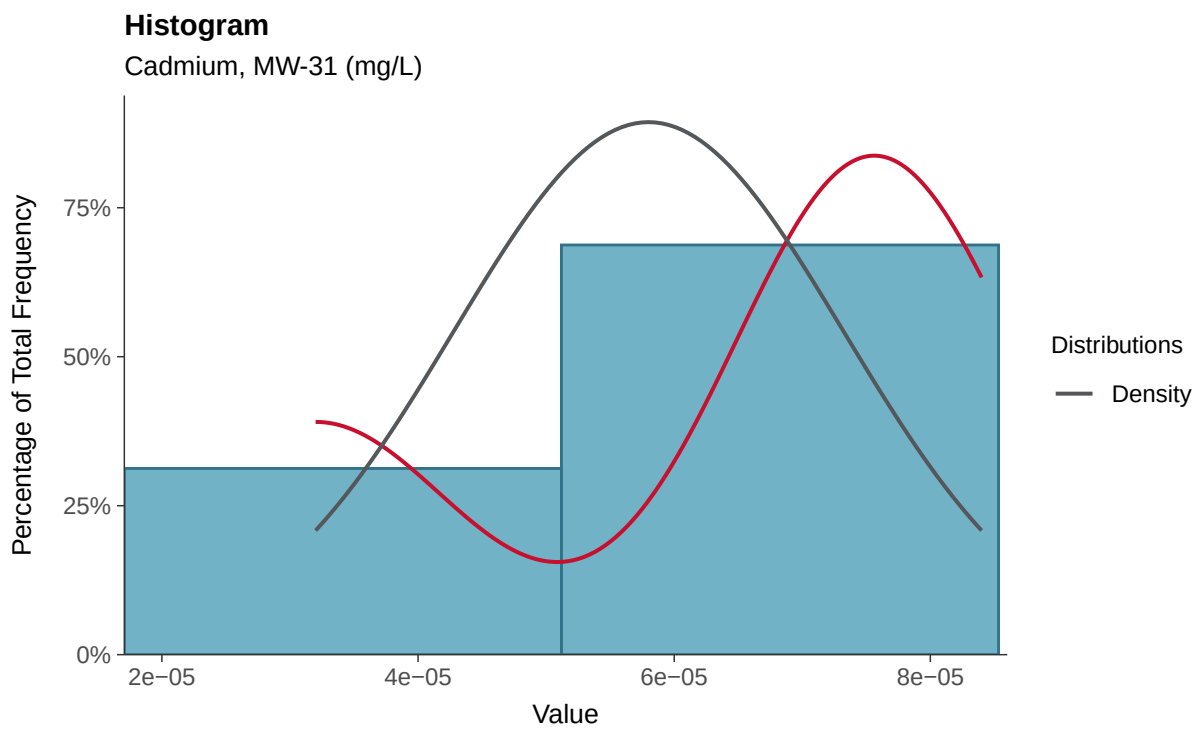
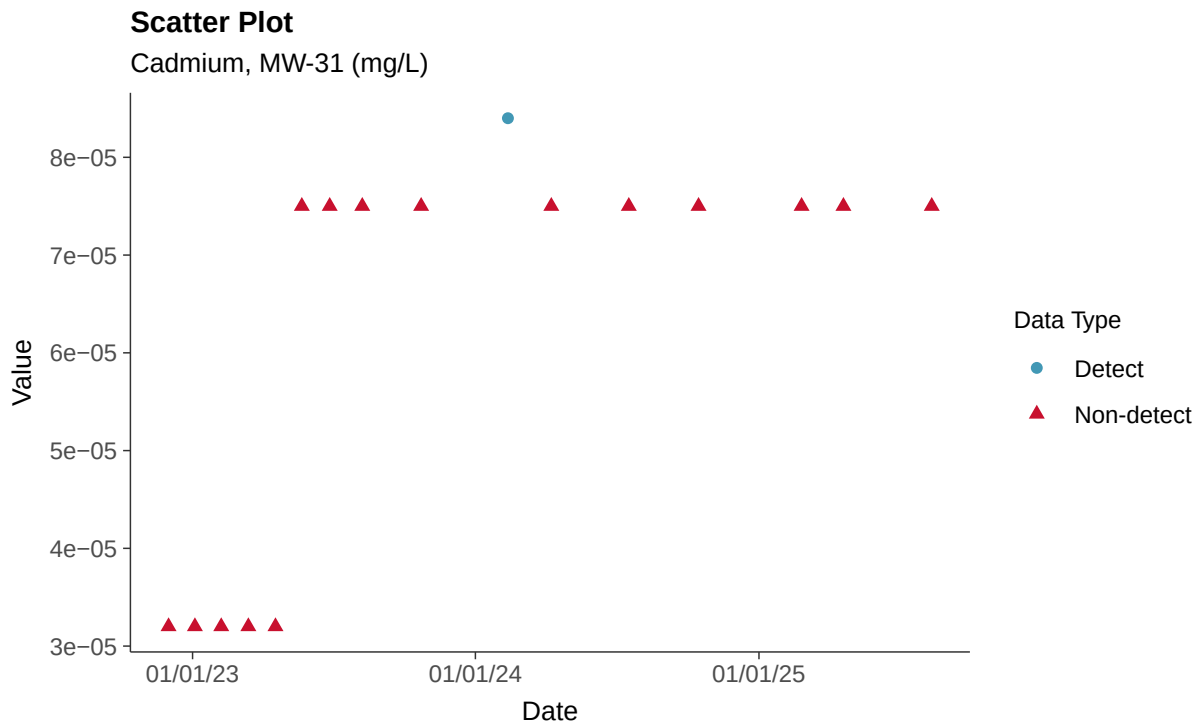


Beryllium, MW-31 (mg/L)



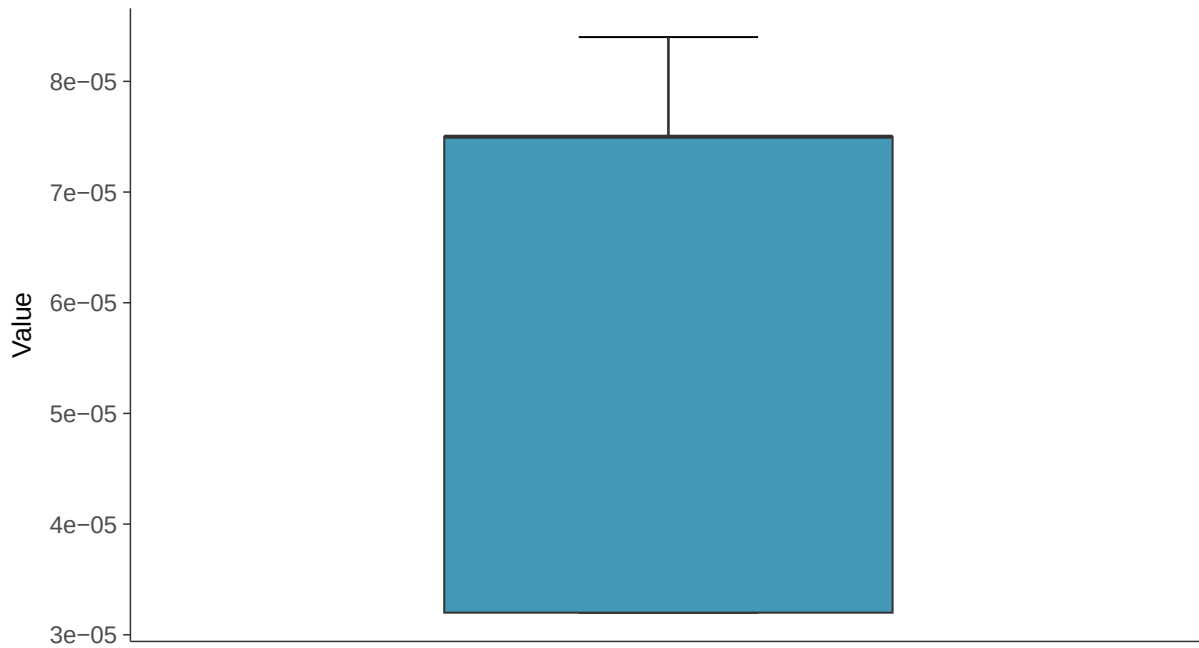
Appendix IV: Cadmium, MW-31

ID: 41_1_4_106



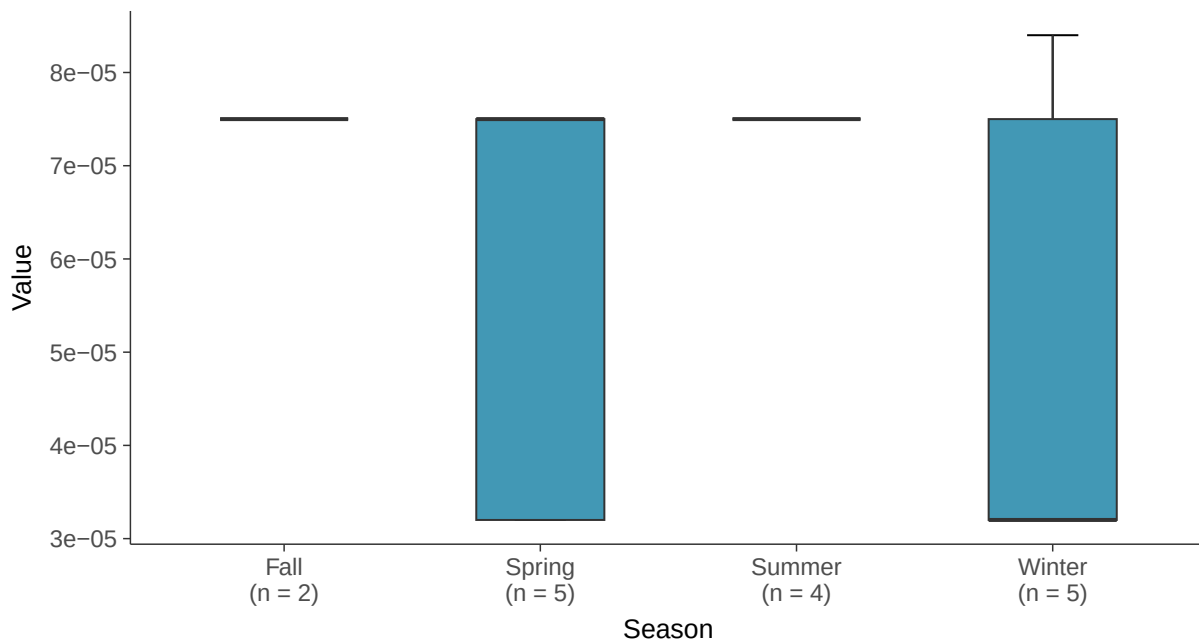
Boxplot

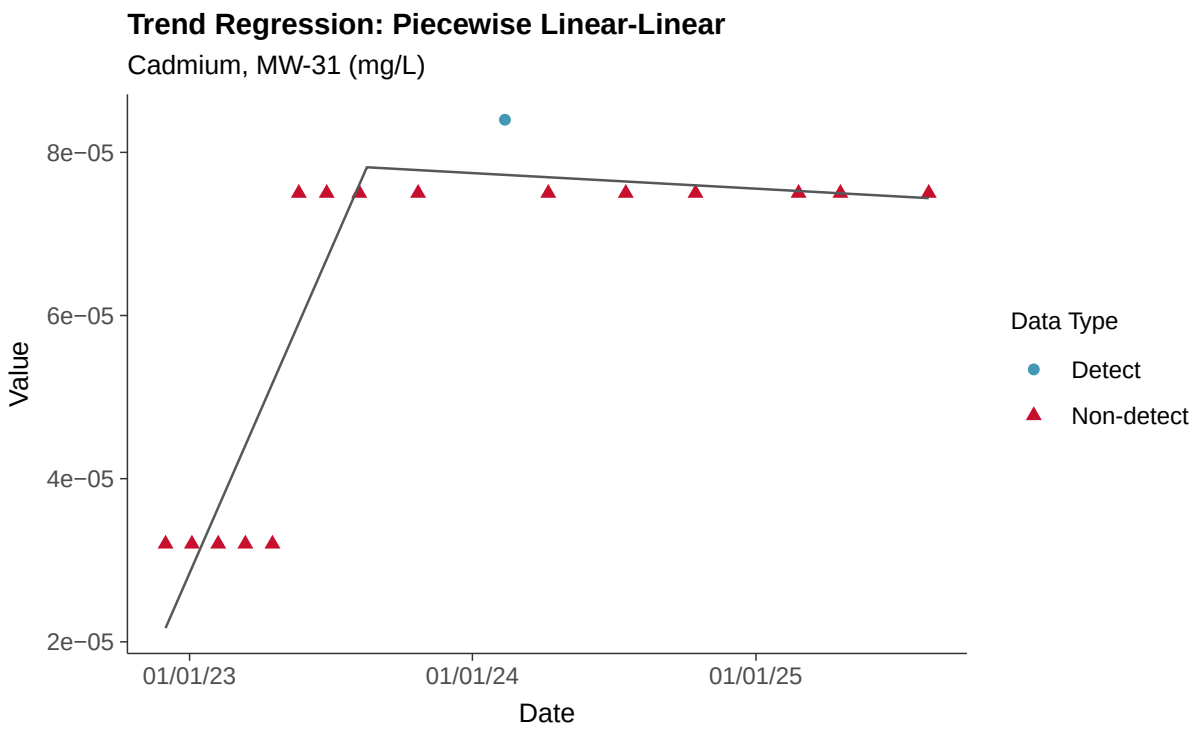
Cadmium, MW-31 (mg/L)



Boxplot by Season

Cadmium, MW-31 (mg/L)



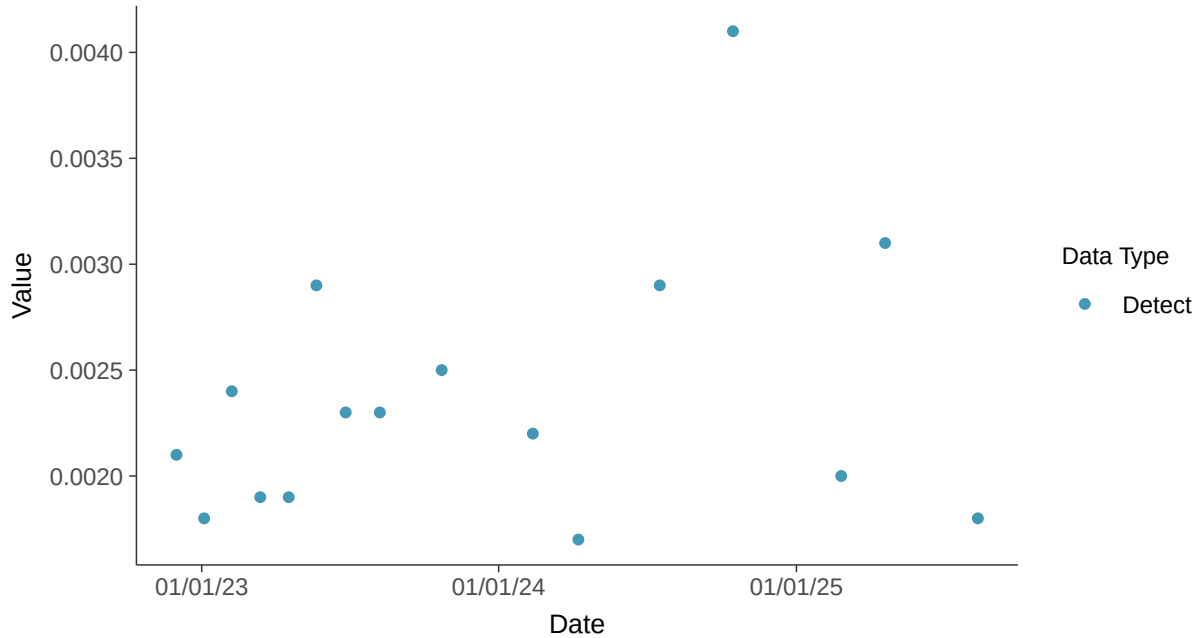


Appendix IV: Chromium, Total, MW-31

ID: 41_1_4_109

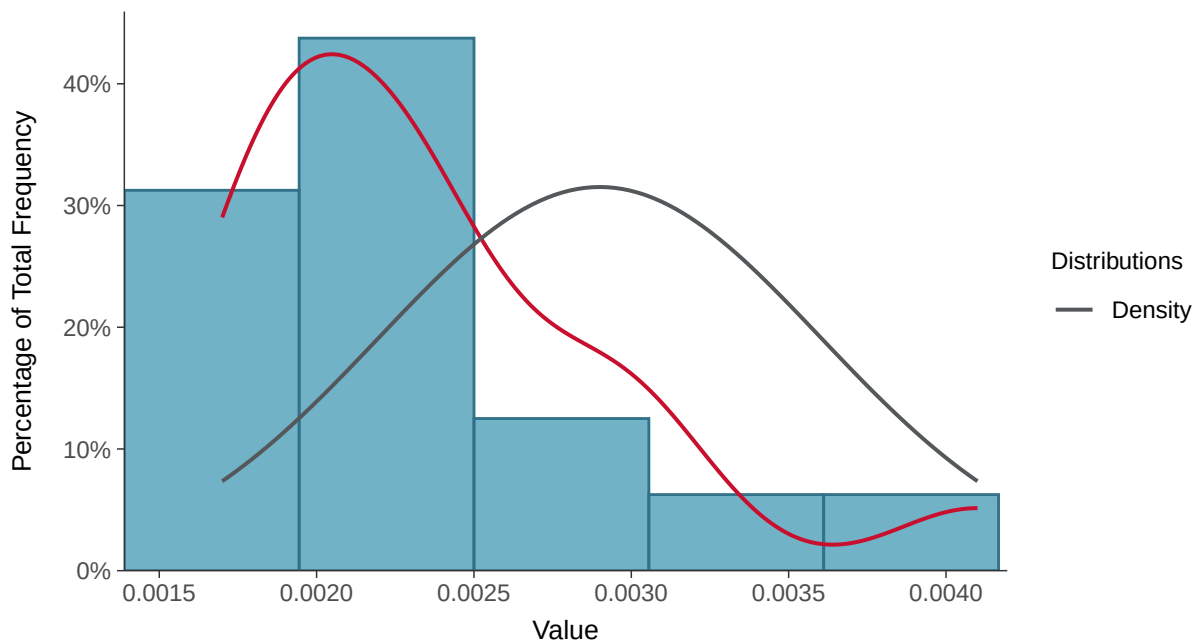
Scatter Plot

Chromium, Total, MW-31 (mg/L)



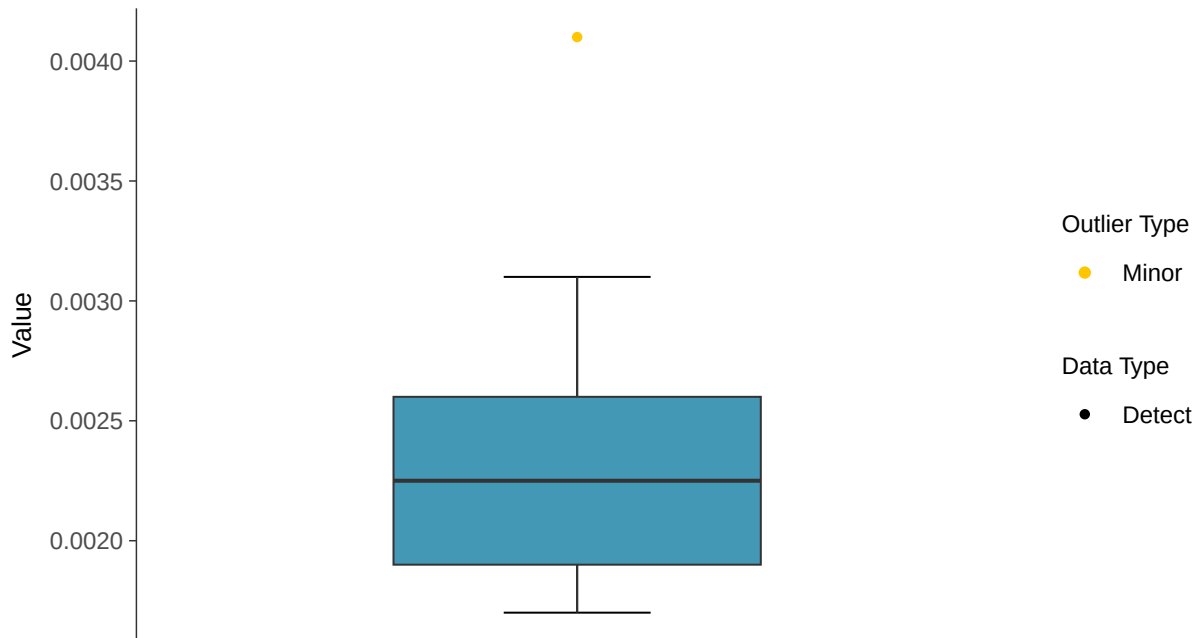
Histogram

Chromium, Total, MW-31 (mg/L)



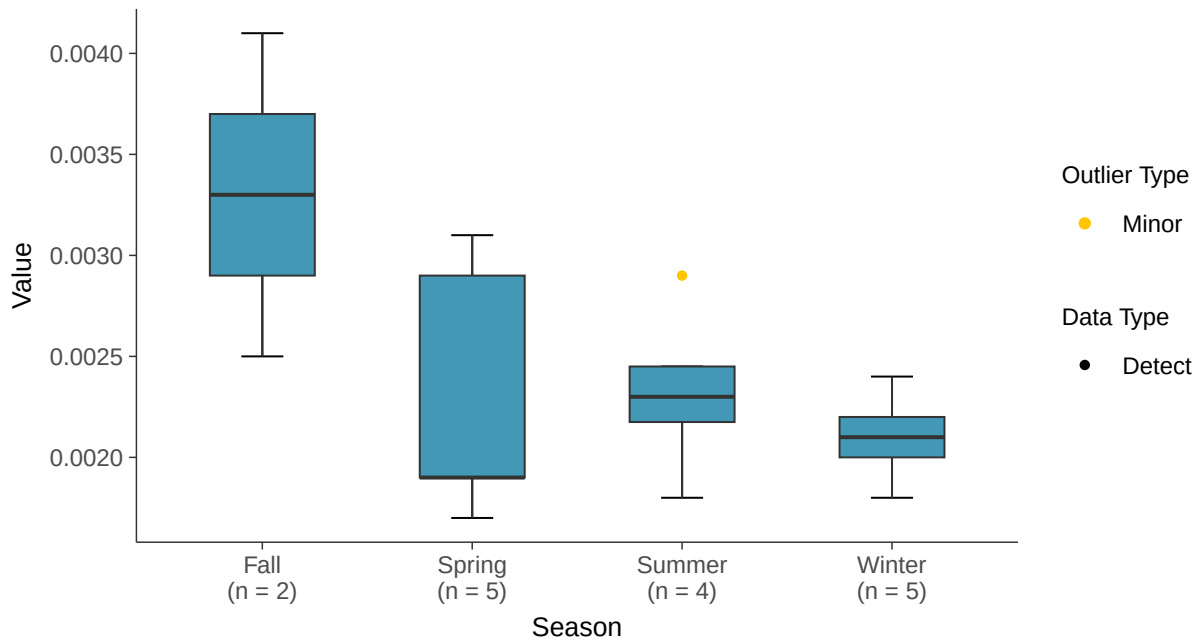
Boxplot

Chromium, Total, MW-31 (mg/L)



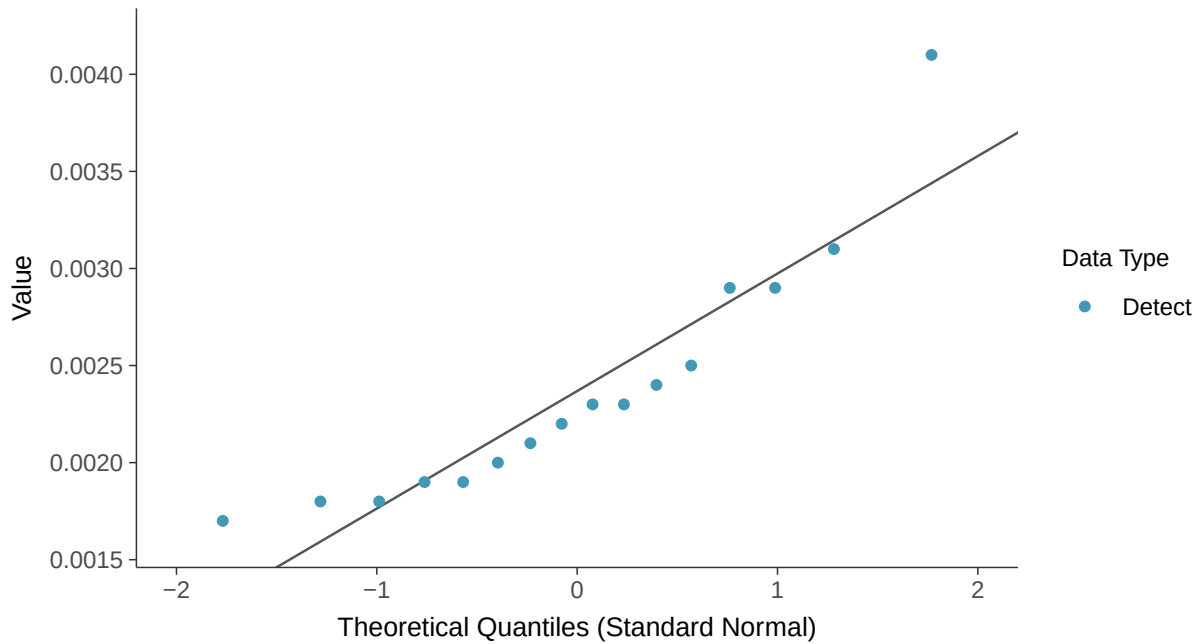
Boxplot by Season

Chromium, Total, MW-31 (mg/L)



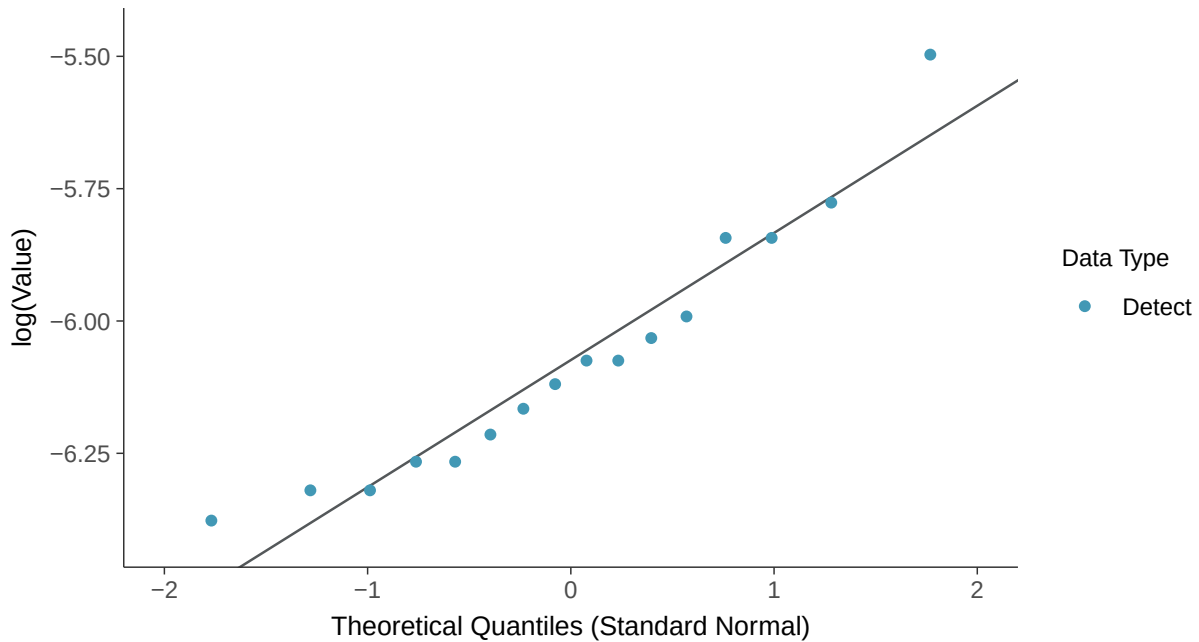
Normal Q-Q plot

Chromium, Total, MW-31 (mg/L)



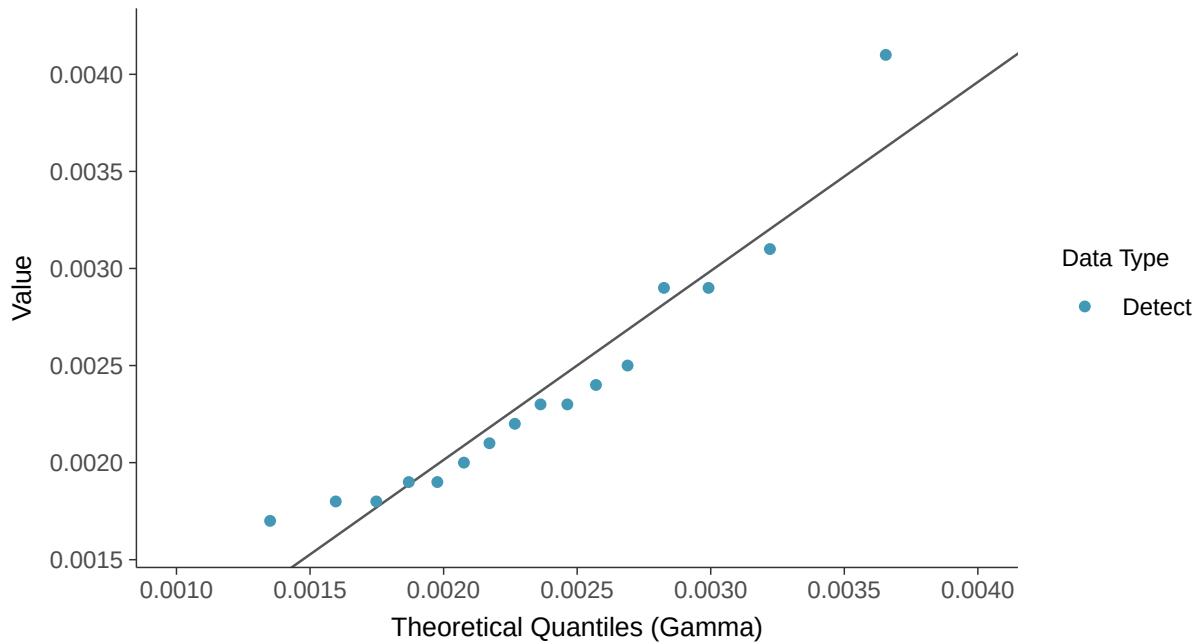
Lognormal Q-Q plot

Chromium, Total, MW-31 (mg/L)



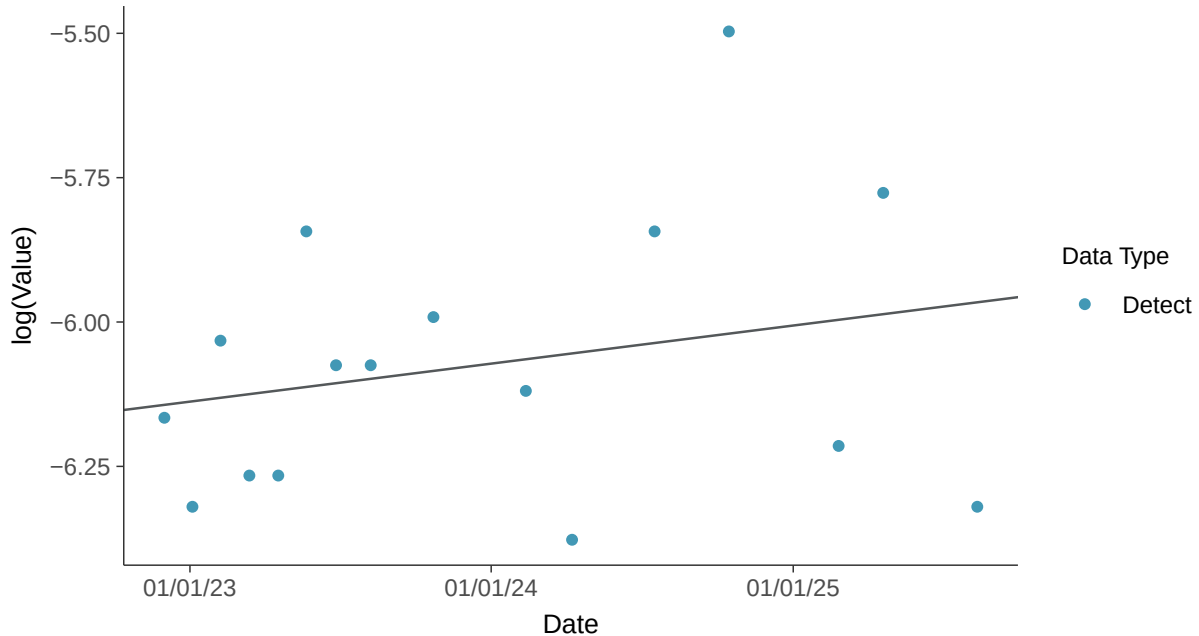
Gamma Q-Q plot

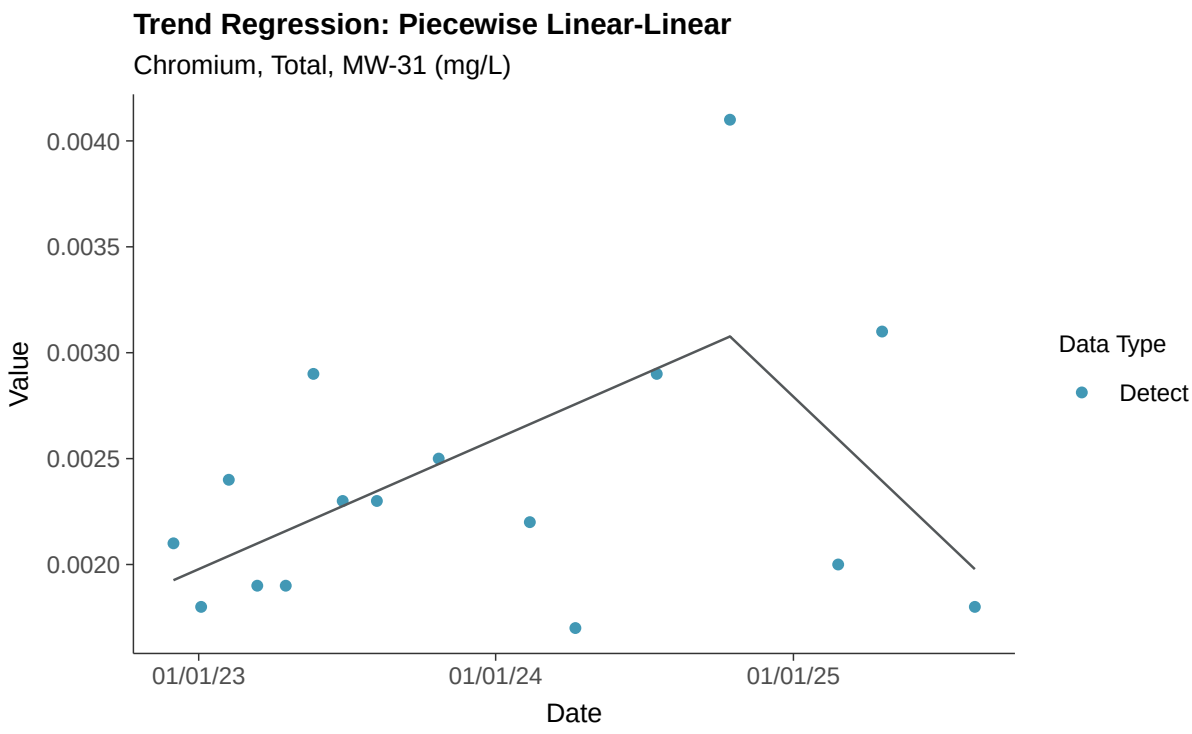
Chromium, Total, MW-31 (mg/L)



Trend Regression: Lognormal MLE

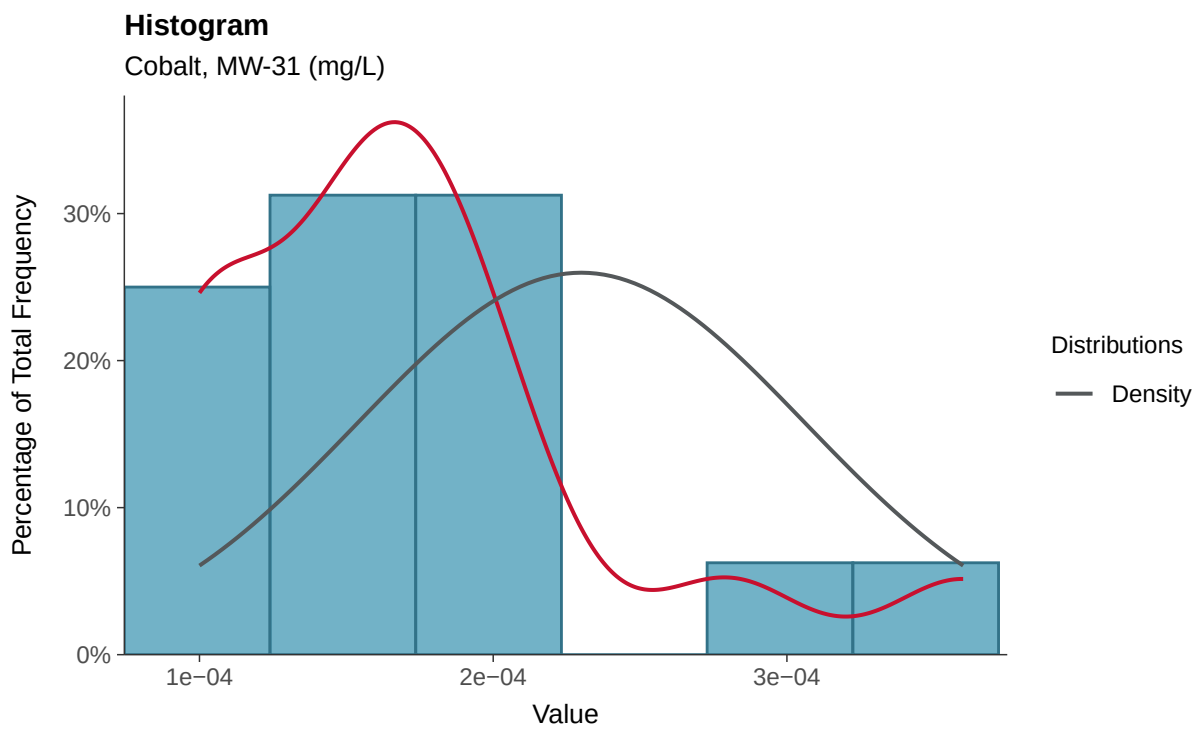
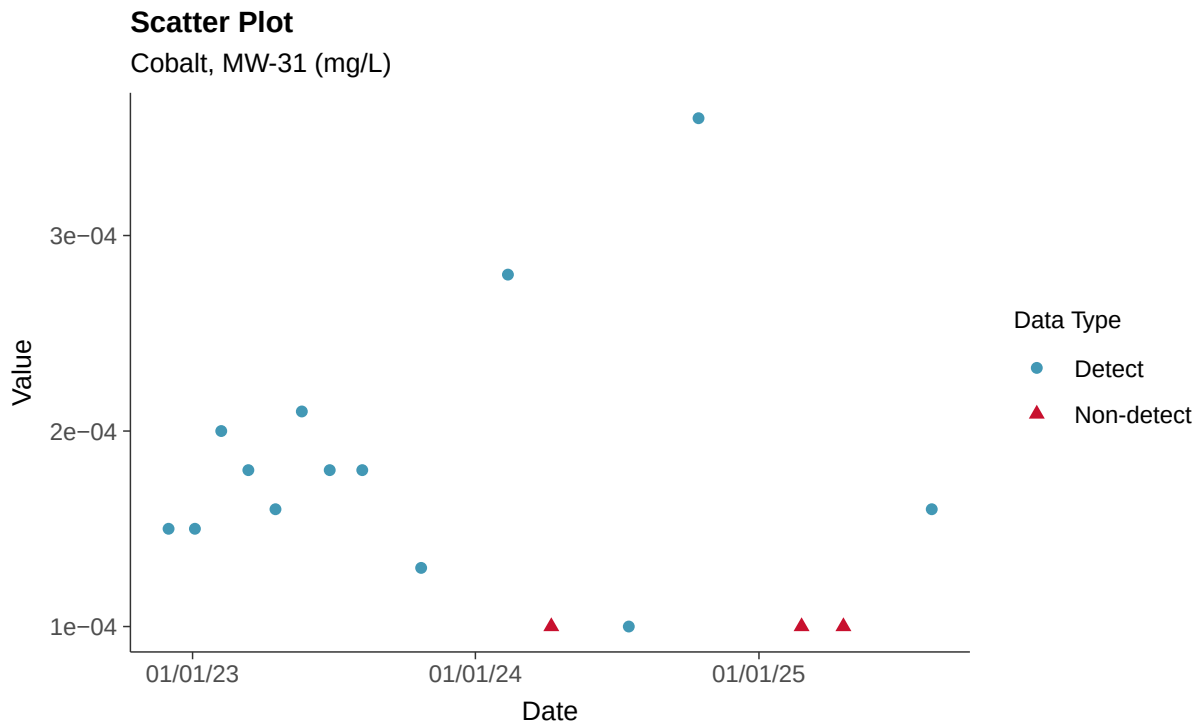
Chromium, Total, MW-31 (mg/L)





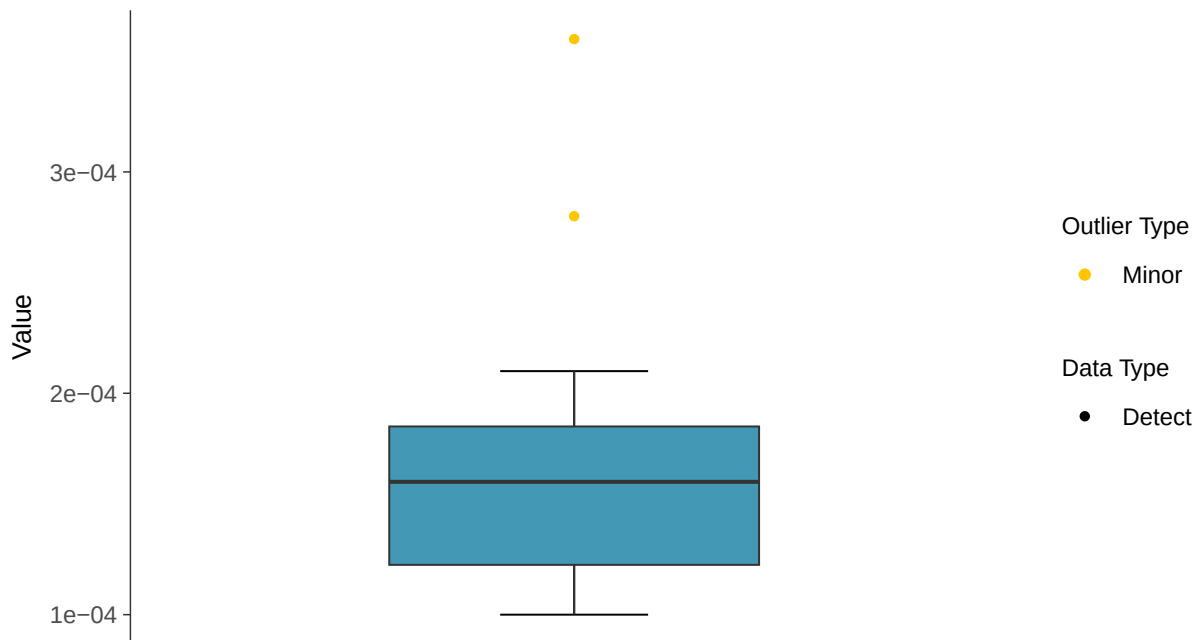
Appendix IV: Cobalt, MW-31

ID: 41_1_4_110



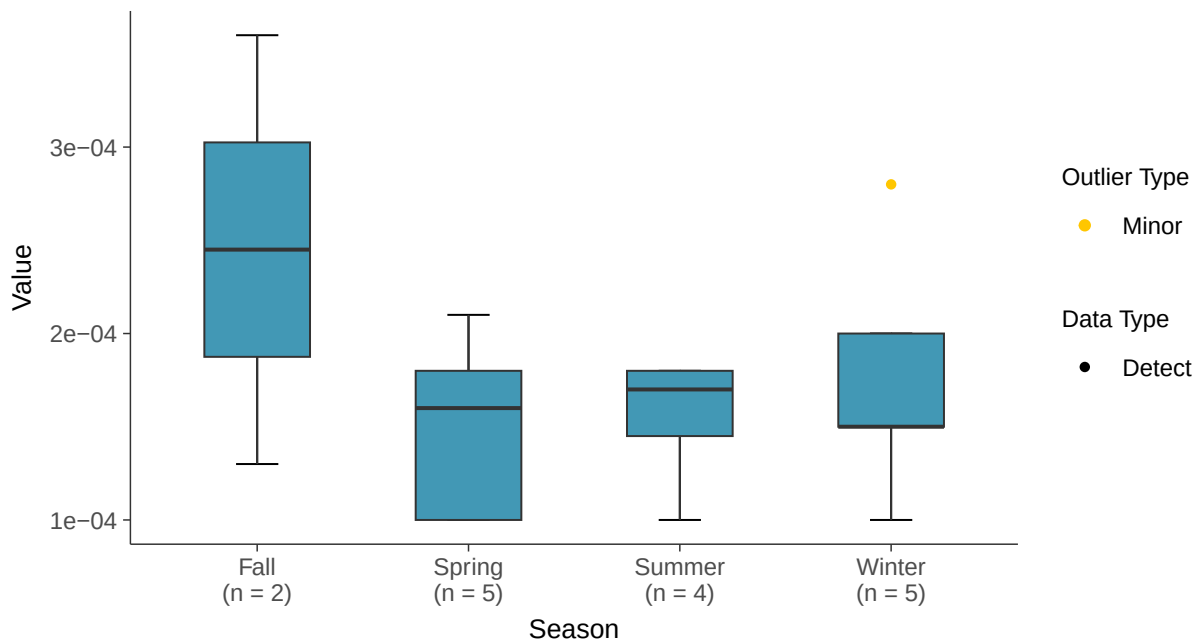
Boxplot

Cobalt, MW-31 (mg/L)



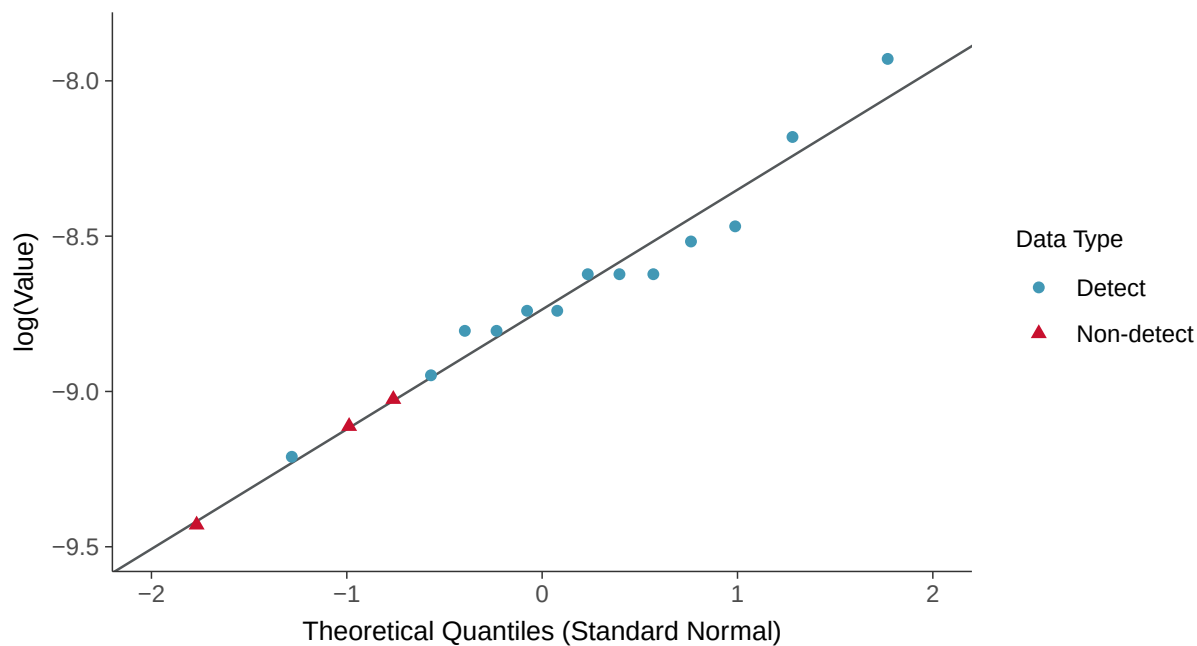
Boxplot by Season

Cobalt, MW-31 (mg/L)



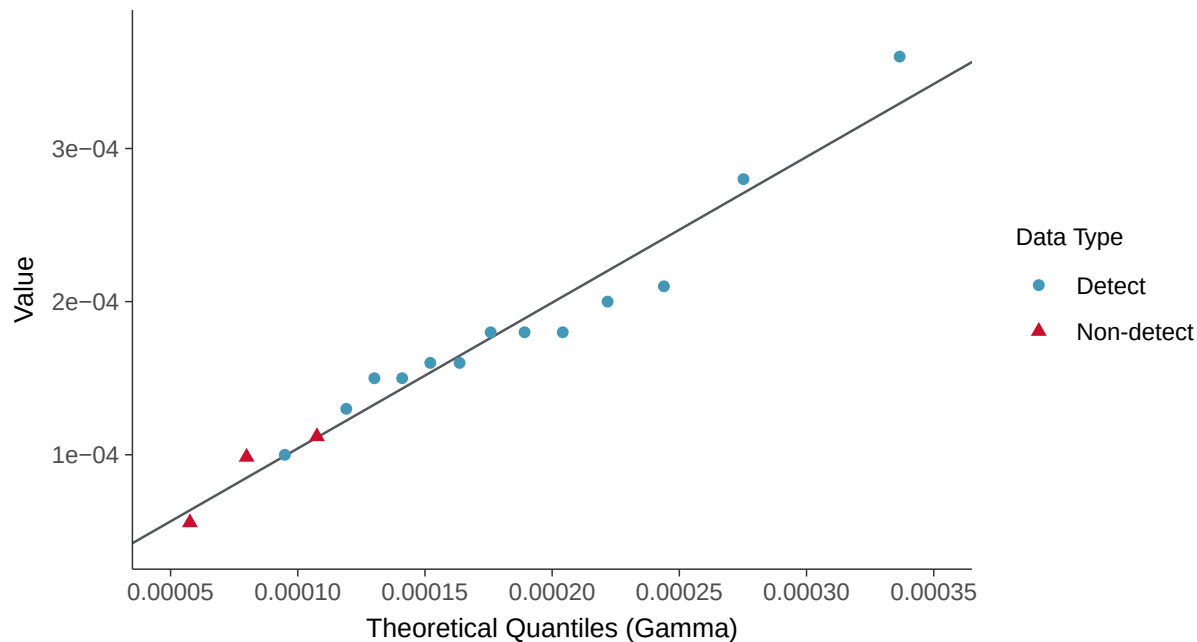
Lognormal Q-Q plot using ROS Imputed Estimates

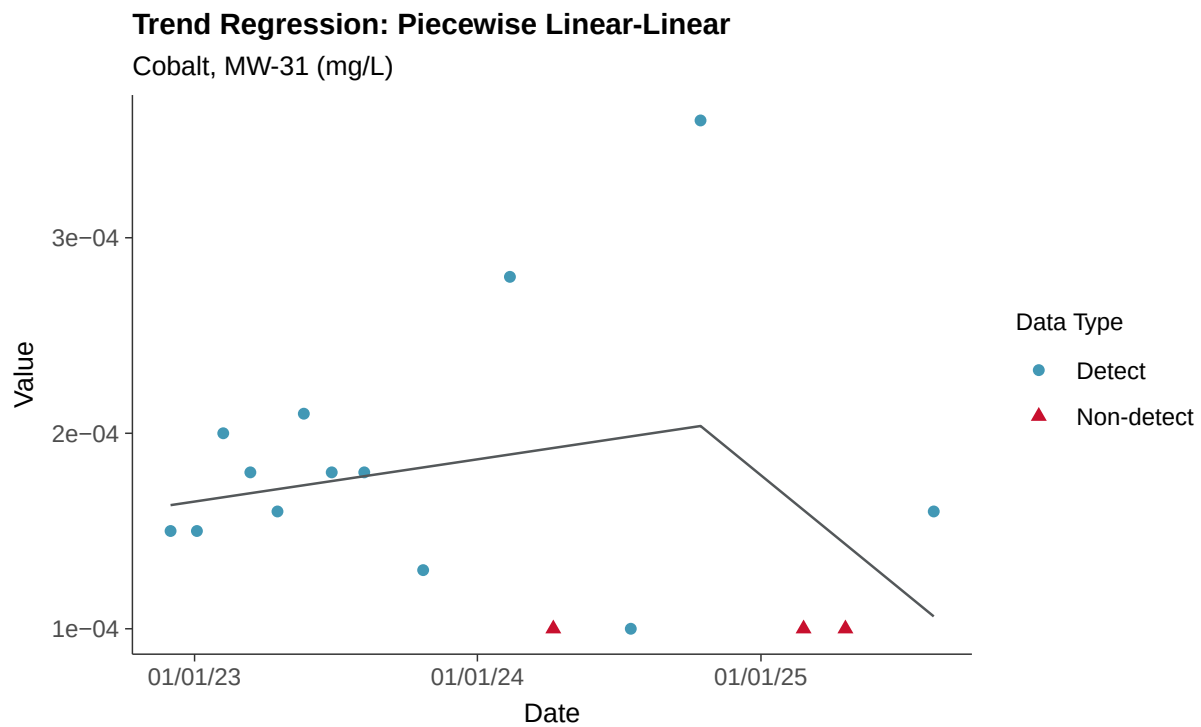
Cobalt, MW-31 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-31 (mg/L)

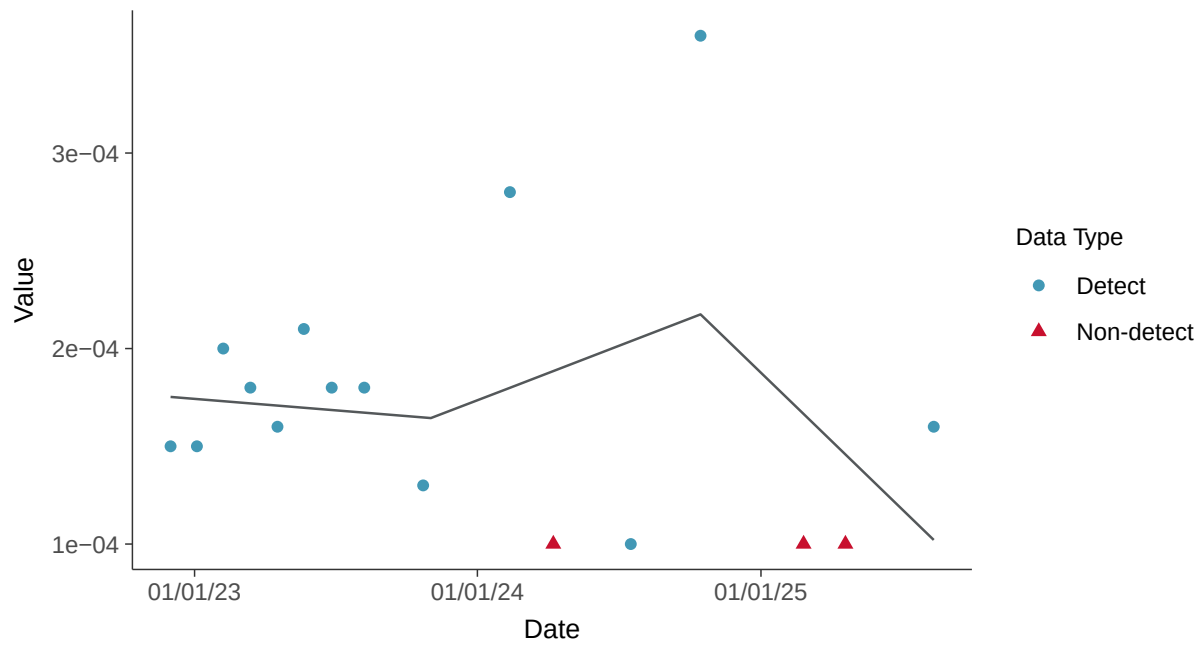






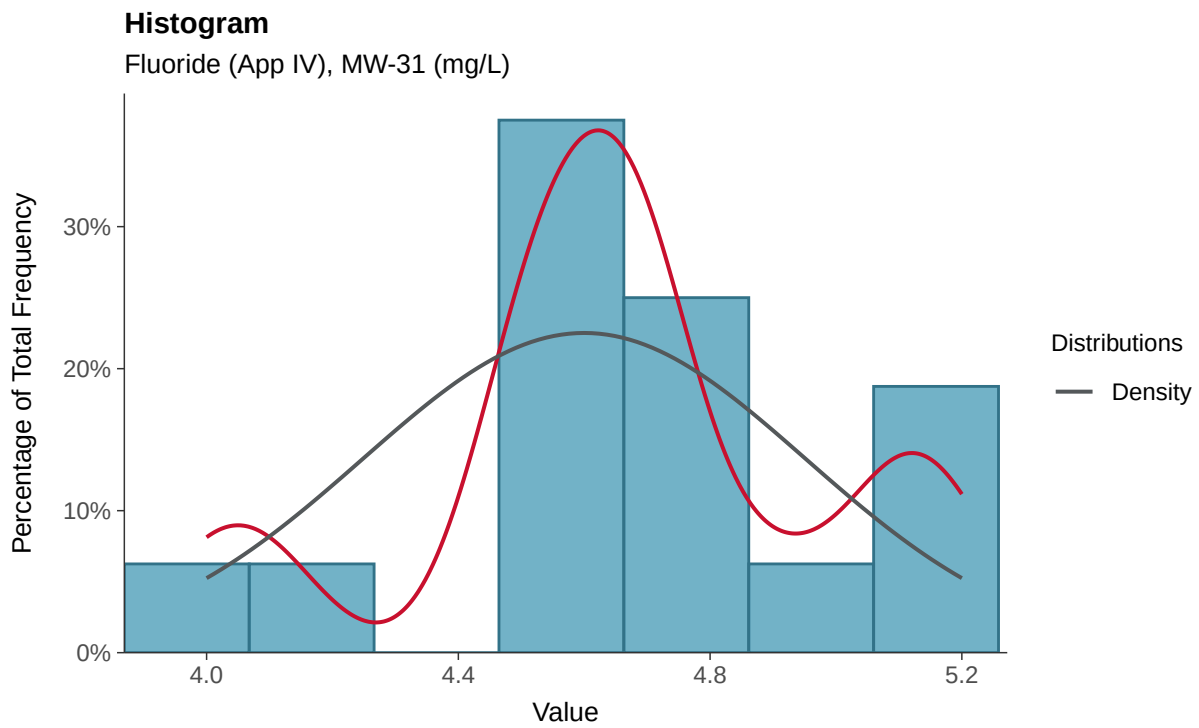
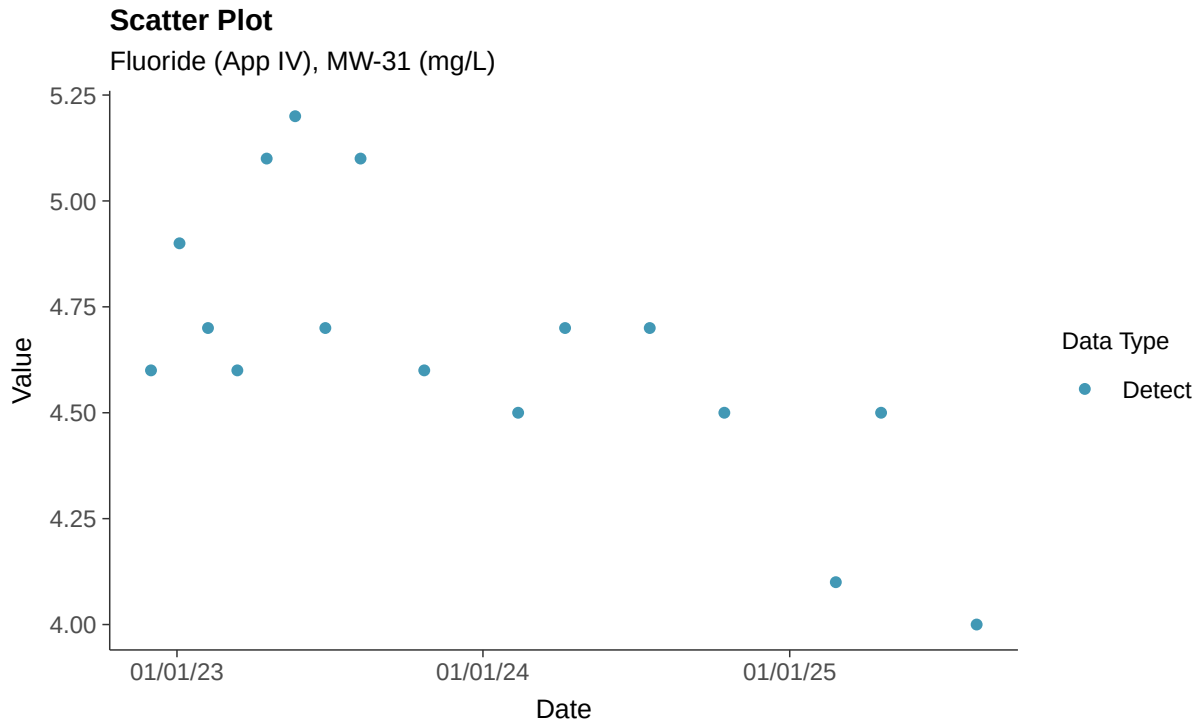
Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-31 (mg/L)



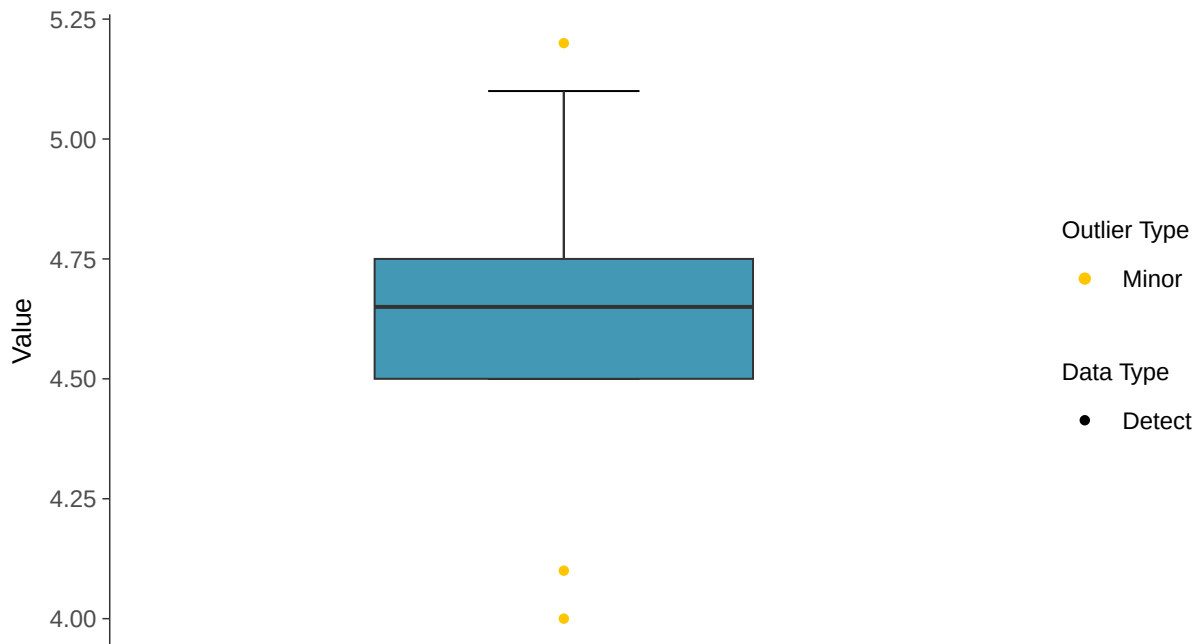
Appendix IV: Fluoride (App IV), MW-31

ID: 41_1_4_113



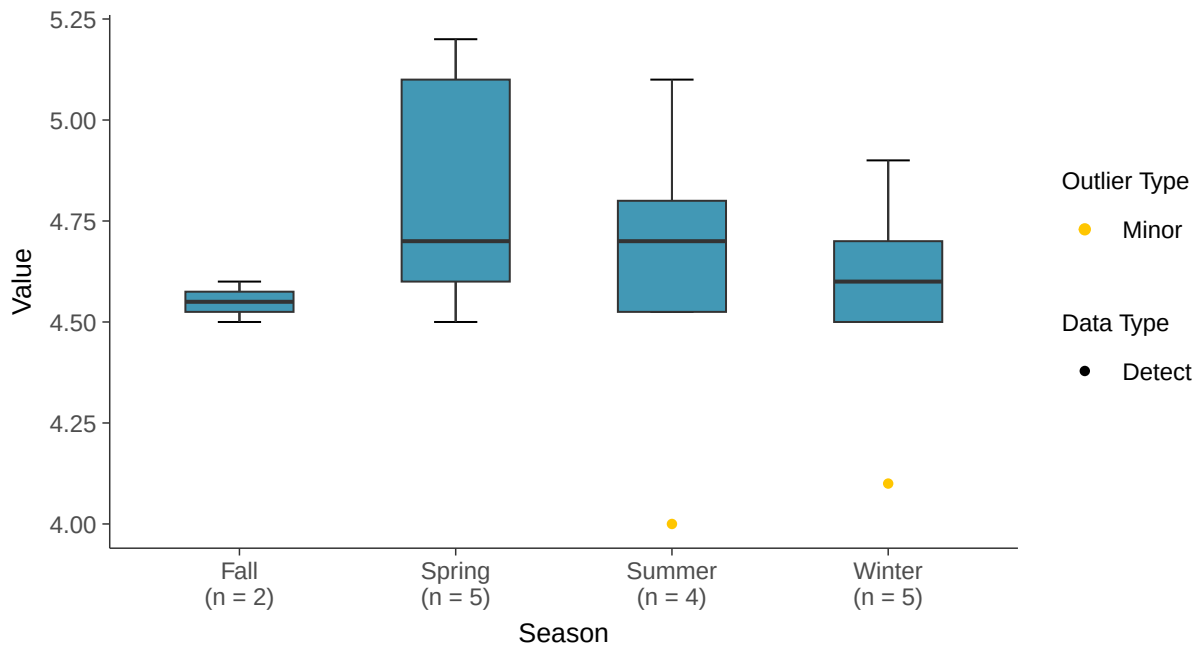
Boxplot

Fluoride (App IV), MW-31 (mg/L)



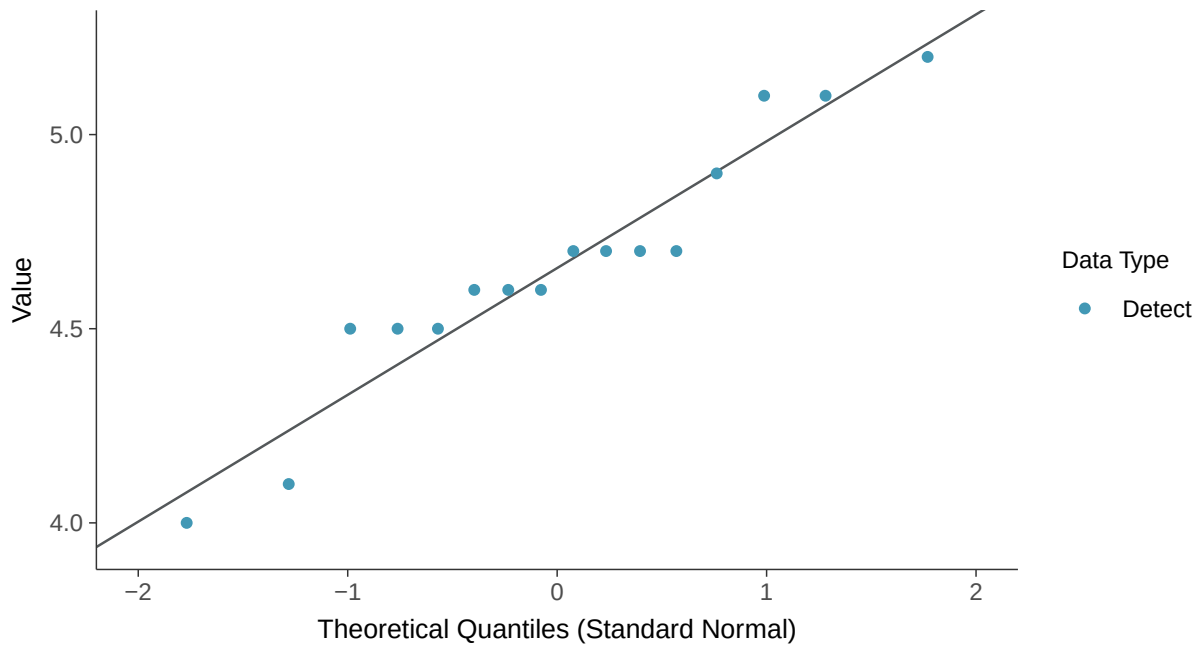
Boxplot by Season

Fluoride (App IV), MW-31 (mg/L)



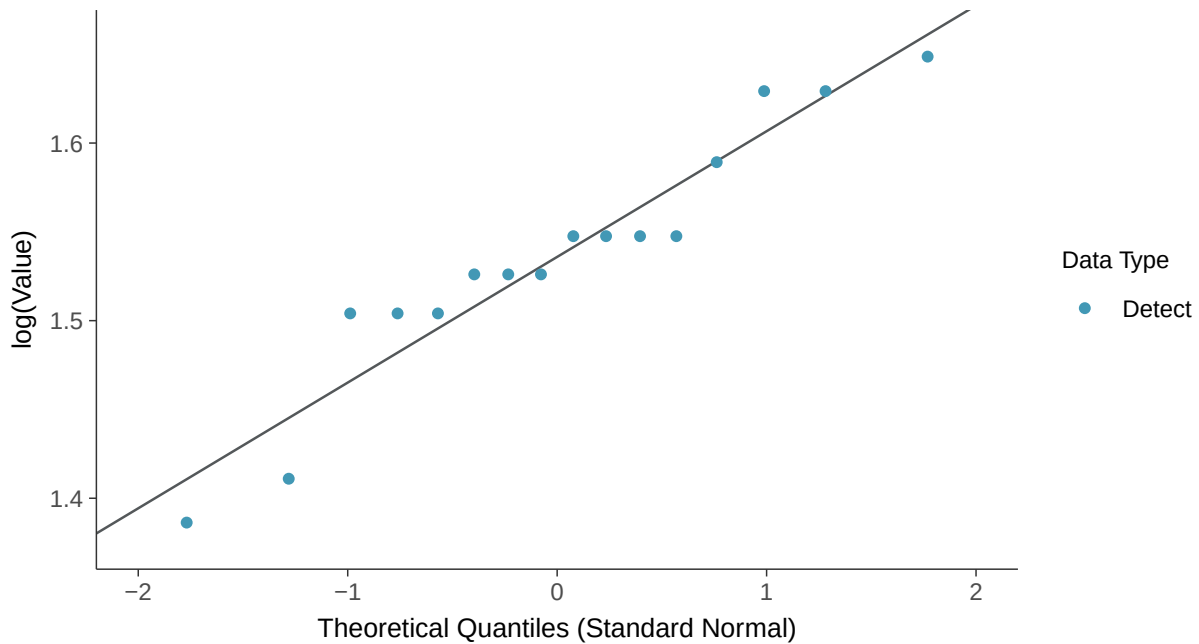
Normal Q-Q plot

Fluoride (App IV), MW-31 (mg/L)



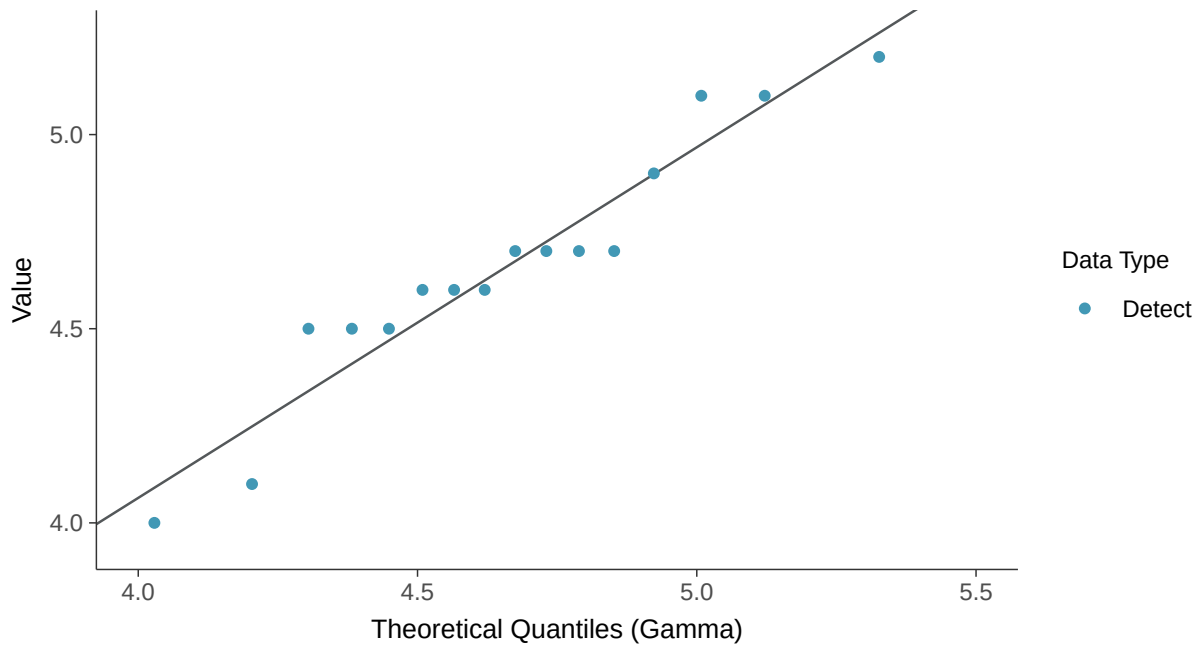
Lognormal Q-Q plot

Fluoride (App IV), MW-31 (mg/L)



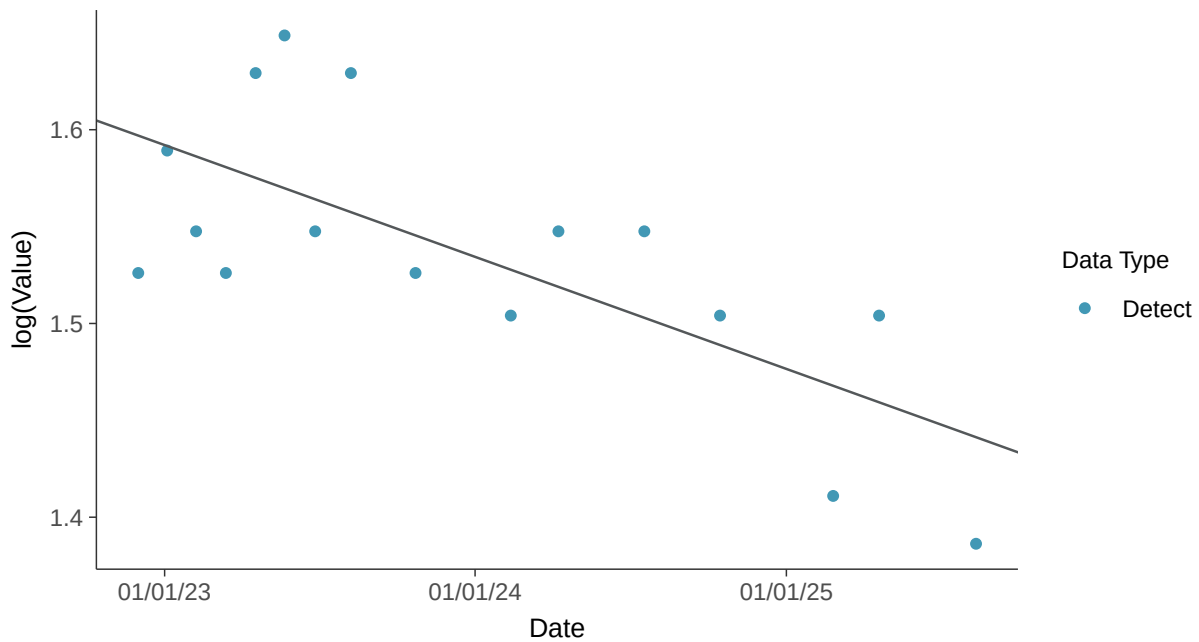
Gamma Q-Q plot

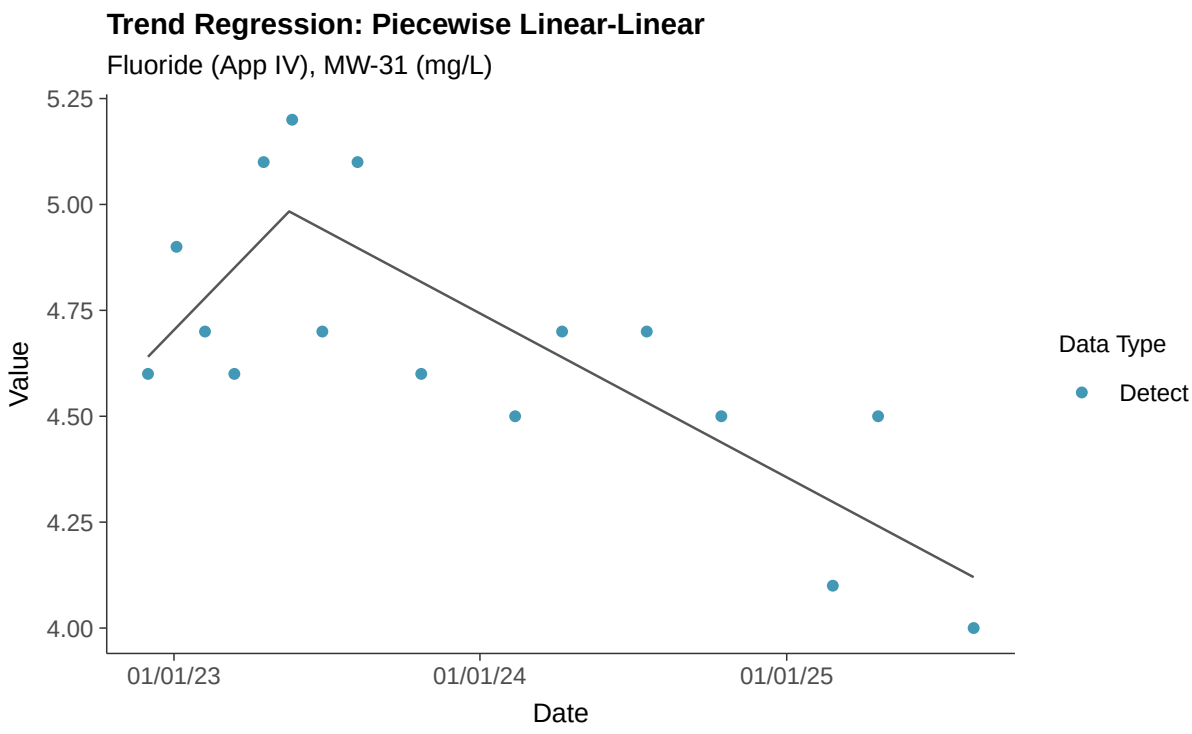
Fluoride (App IV), MW-31 (mg/L)



Trend Regression: Lognormal MLE

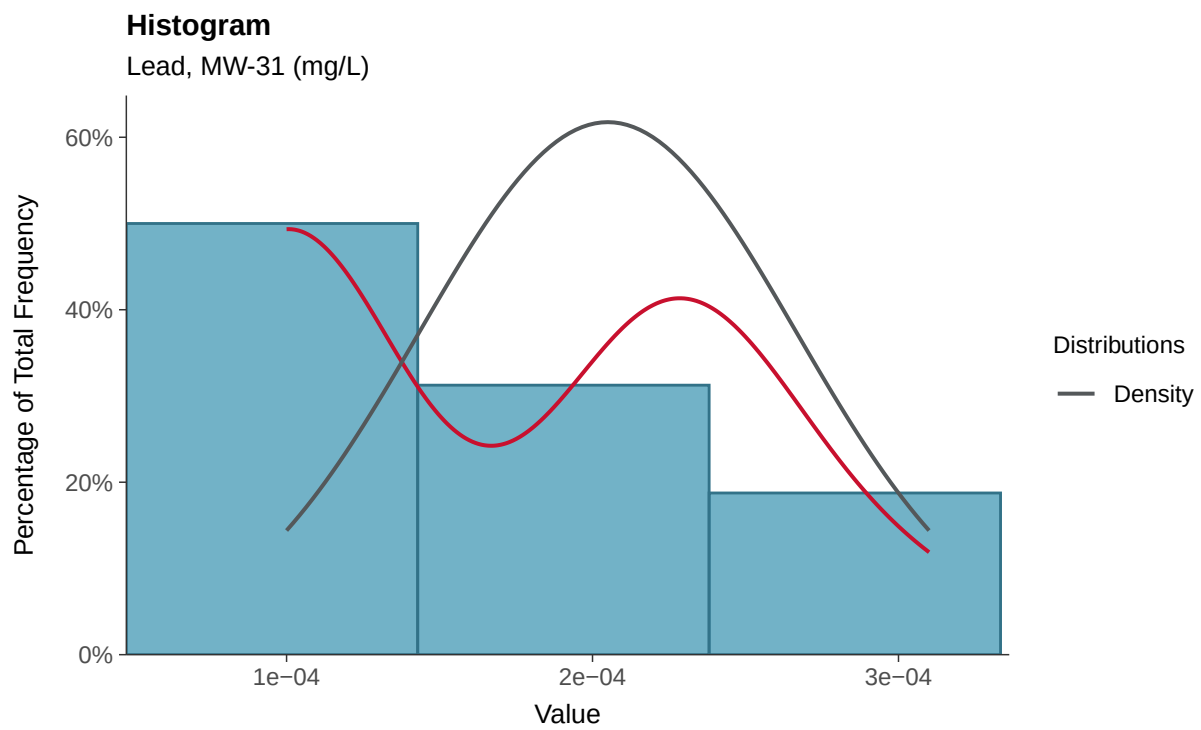
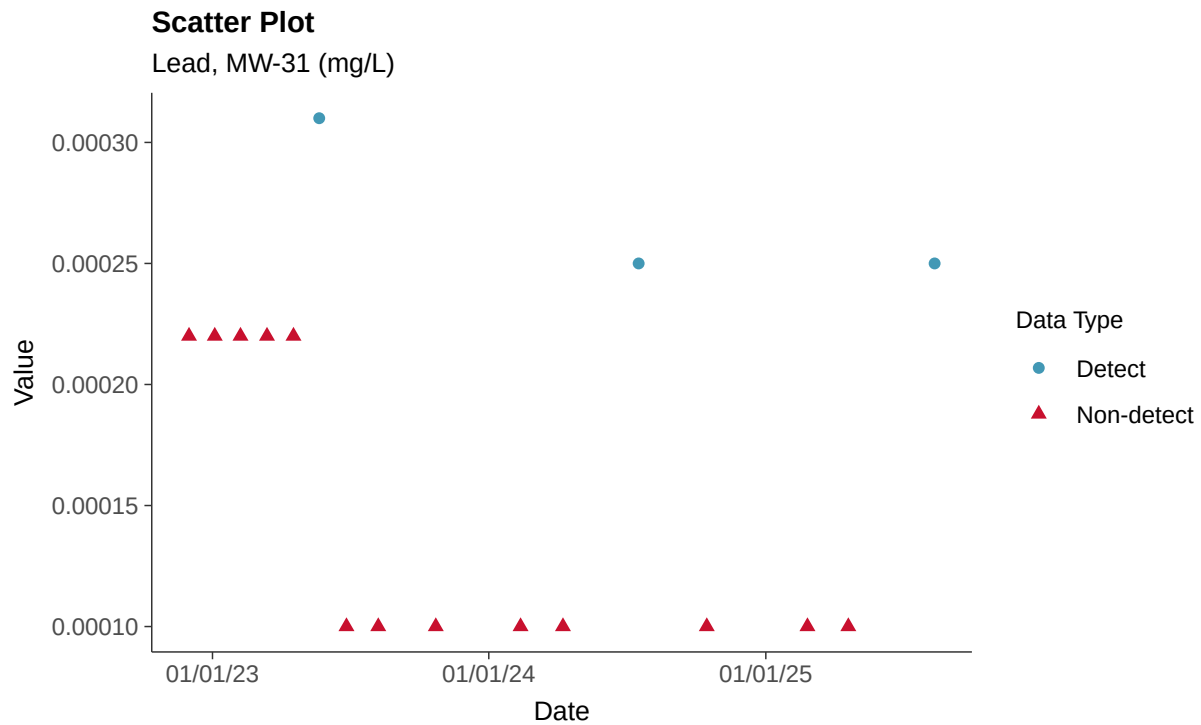
Fluoride (App IV), MW-31 (mg/L)





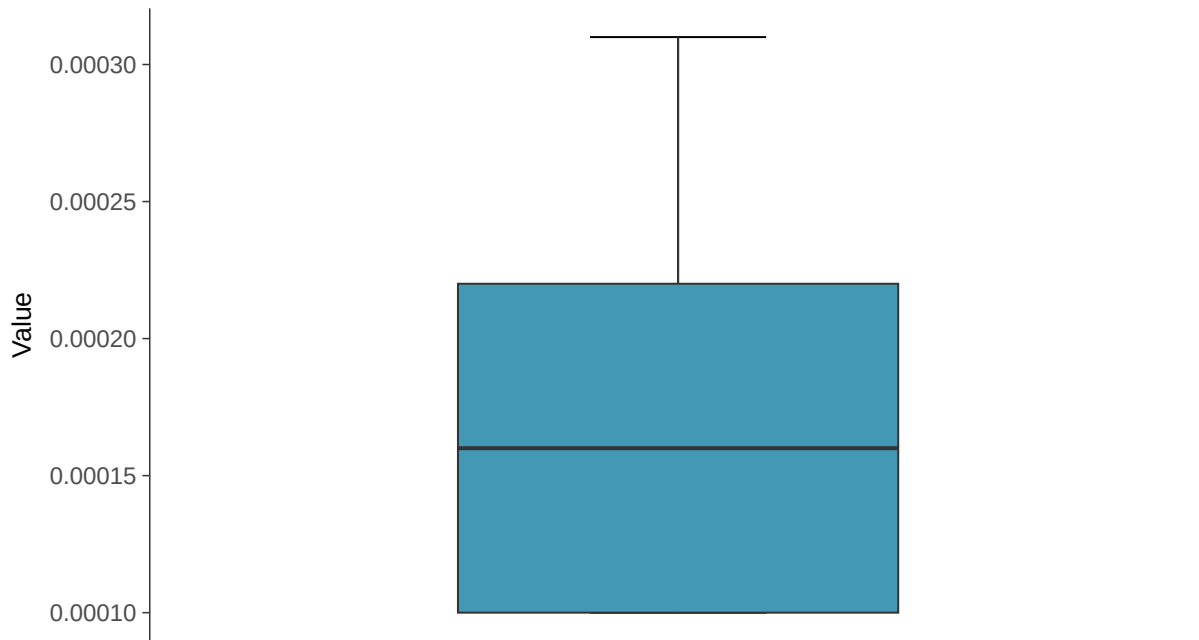
Appendix IV: Lead, MW-31

ID: 41_1_4_115



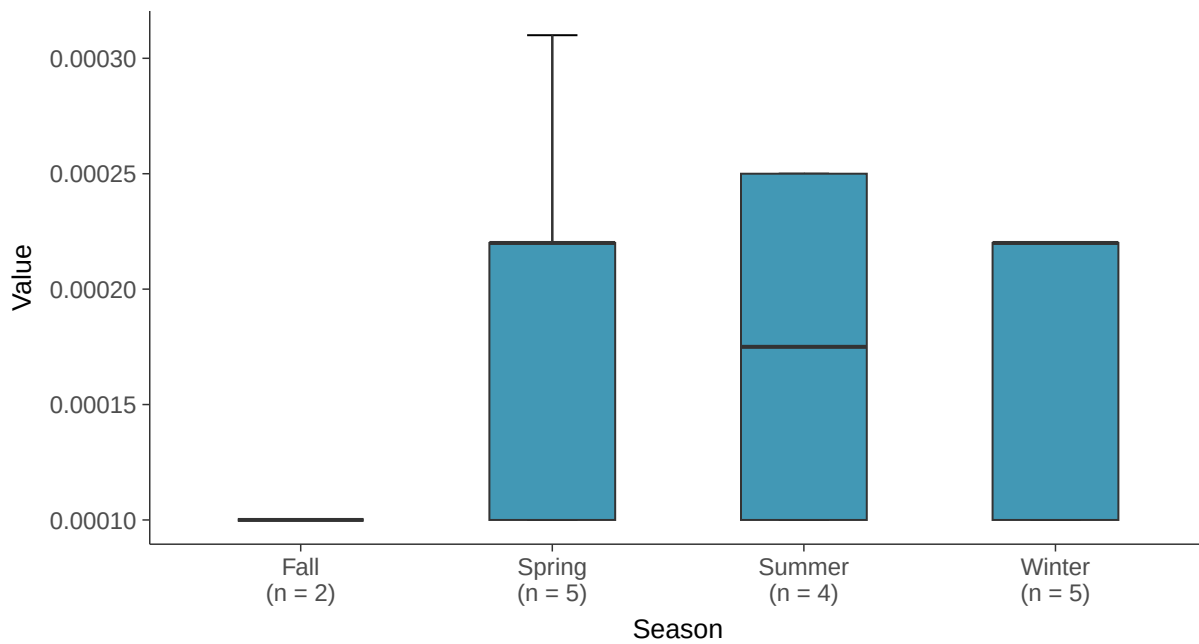
Boxplot

Lead, MW-31 (mg/L)



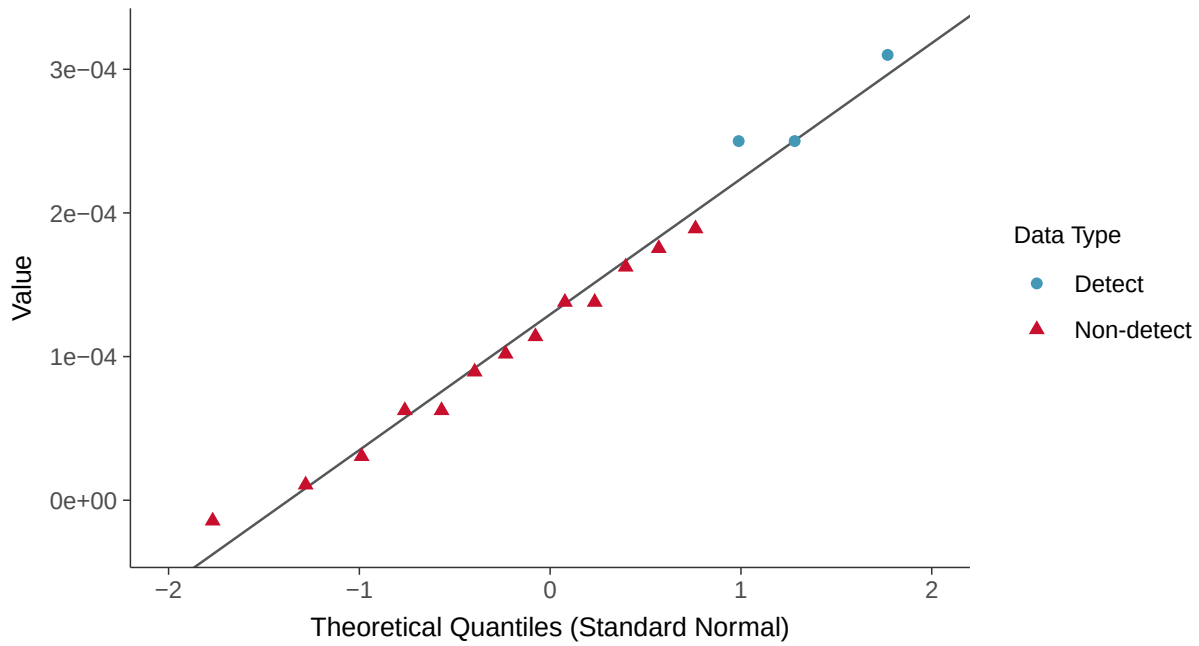
Boxplot by Season

Lead, MW-31 (mg/L)



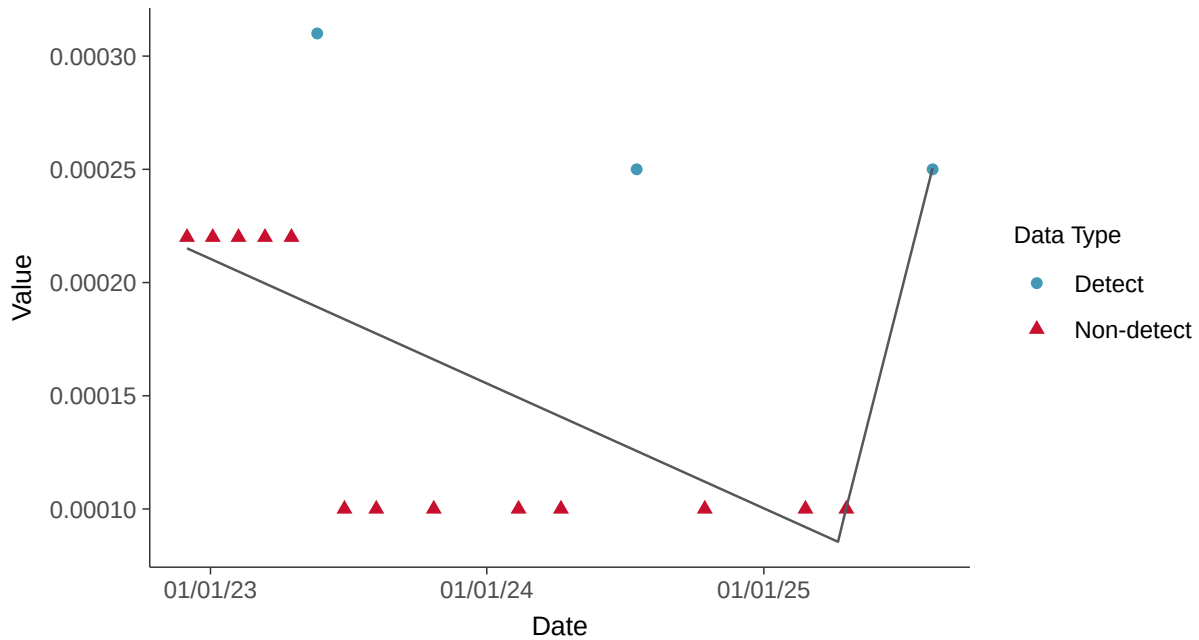
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

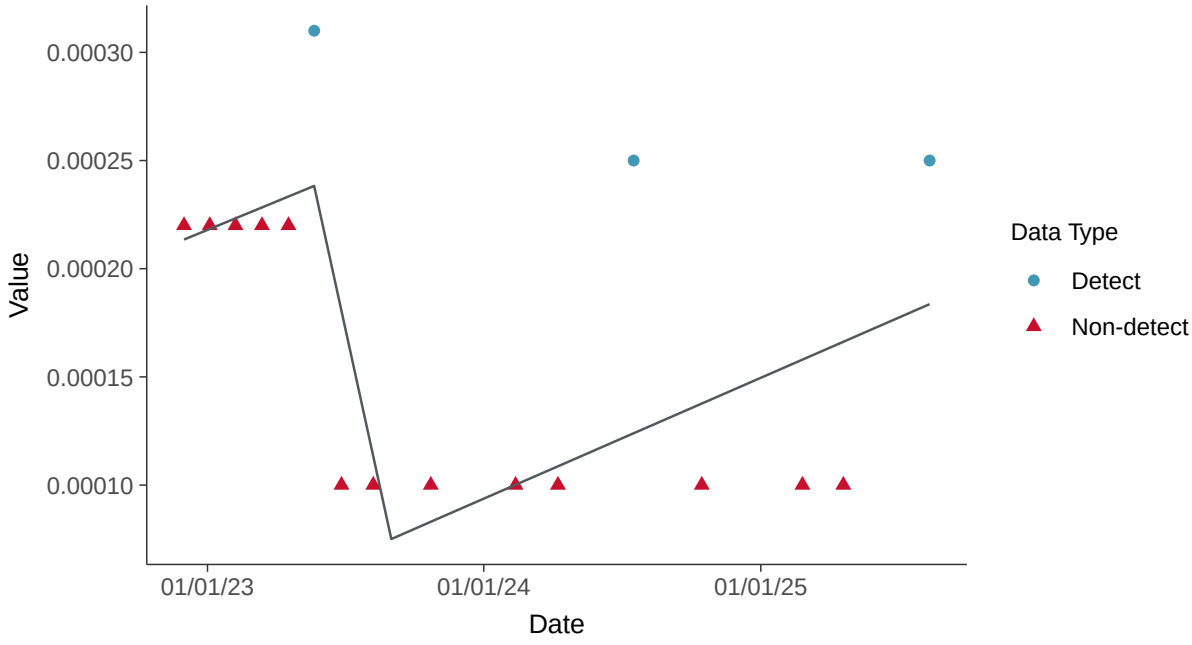
Lead, MW-31 (mg/L)





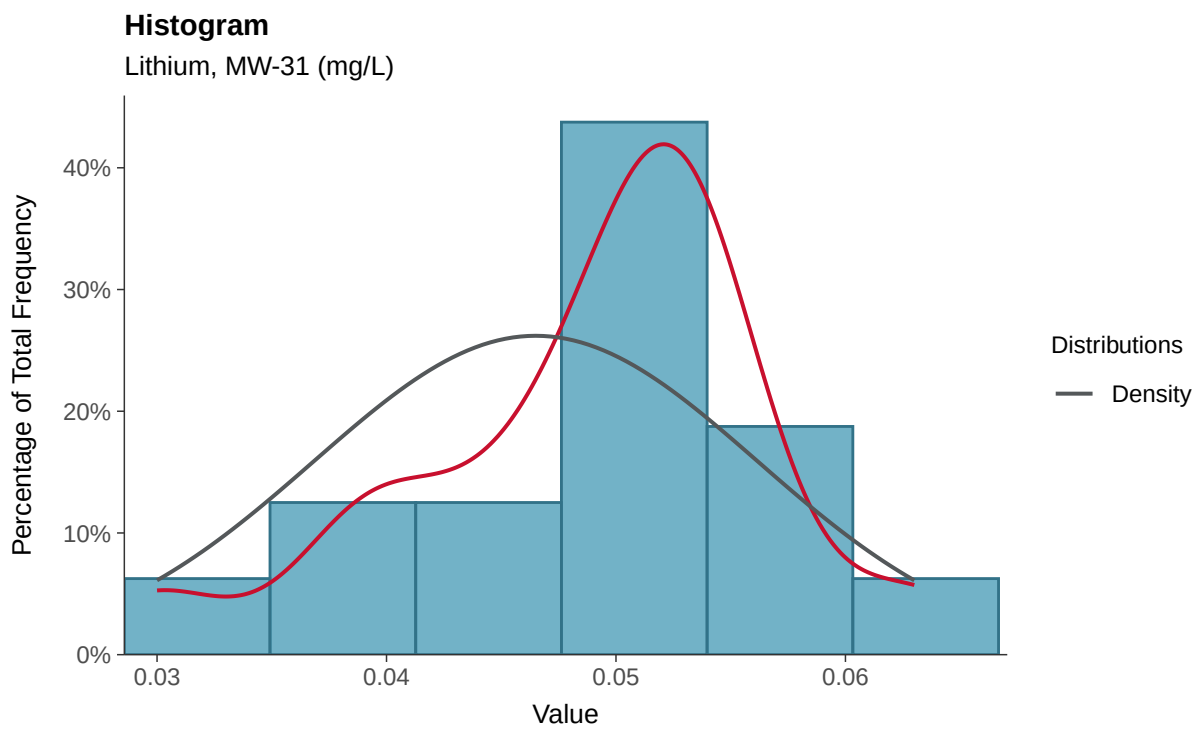
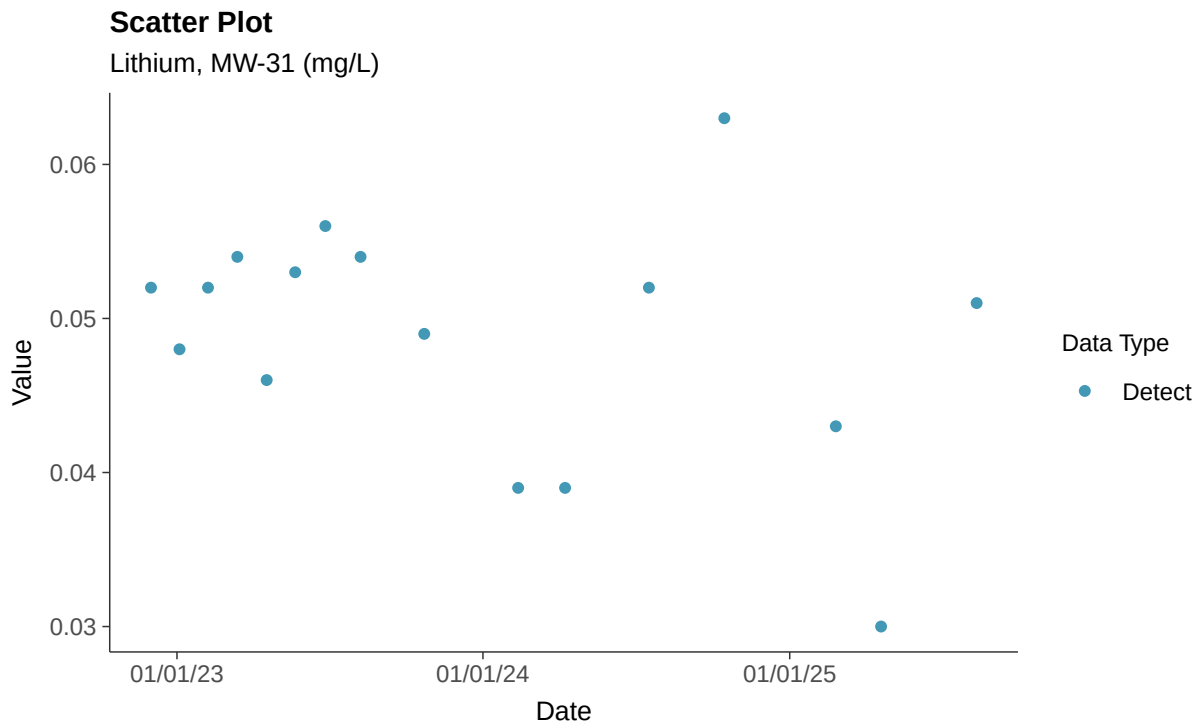
Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-31 (mg/L)



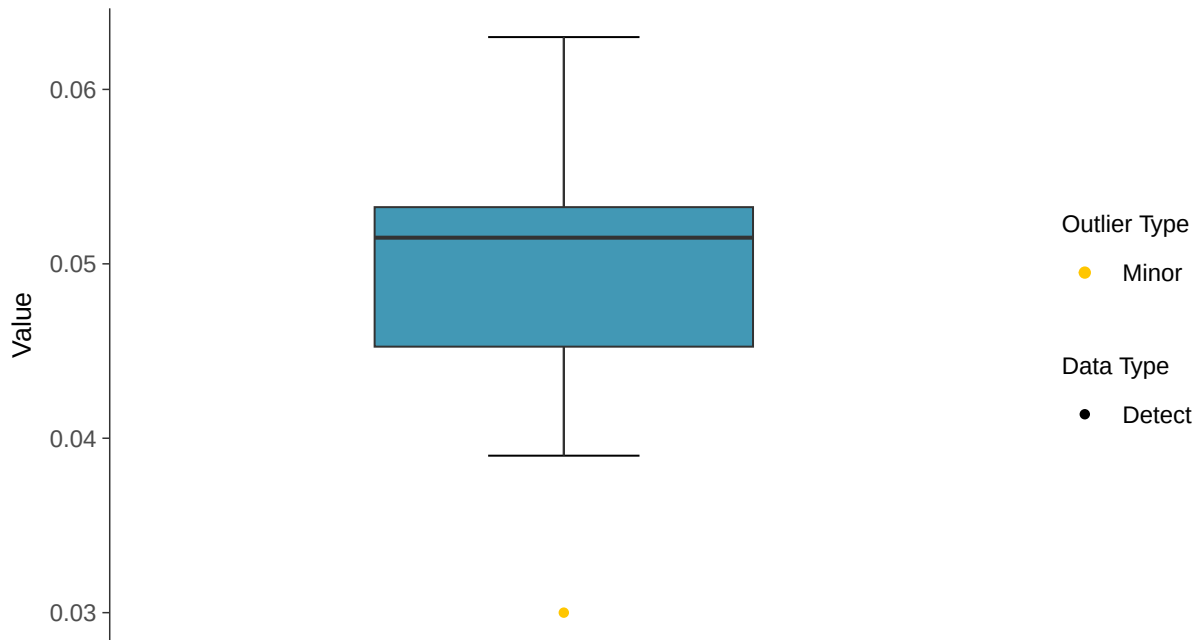
Appendix IV: Lithium, MW-31

ID: 41_1_4_116



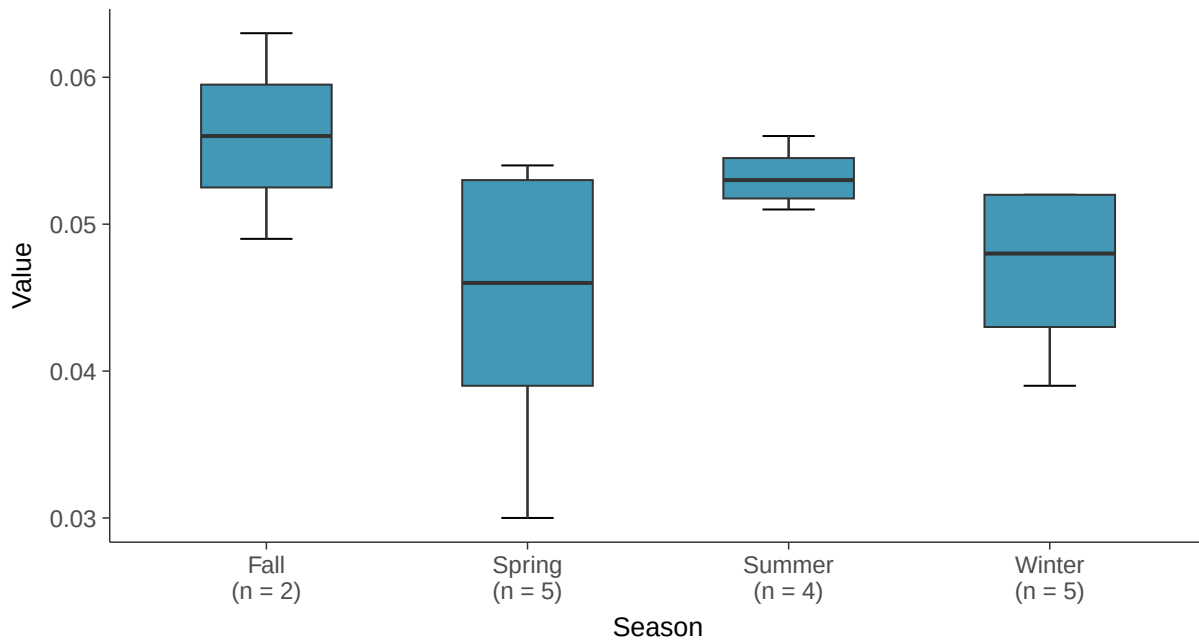
Boxplot

Lithium, MW-31 (mg/L)



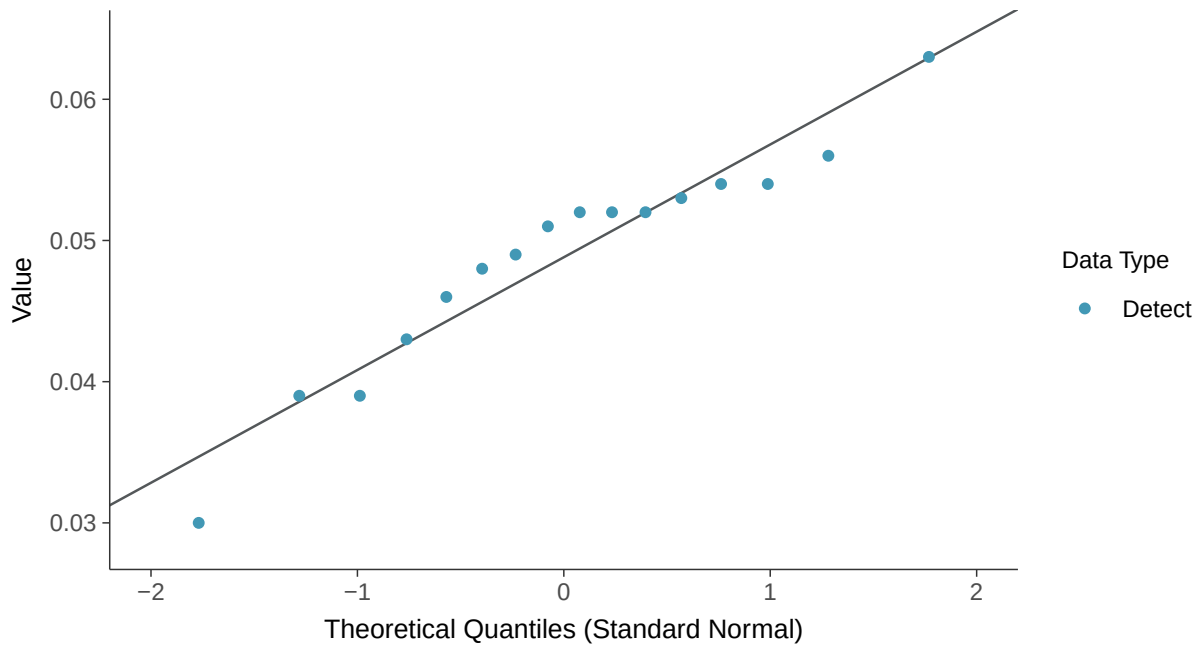
Boxplot by Season

Lithium, MW-31 (mg/L)



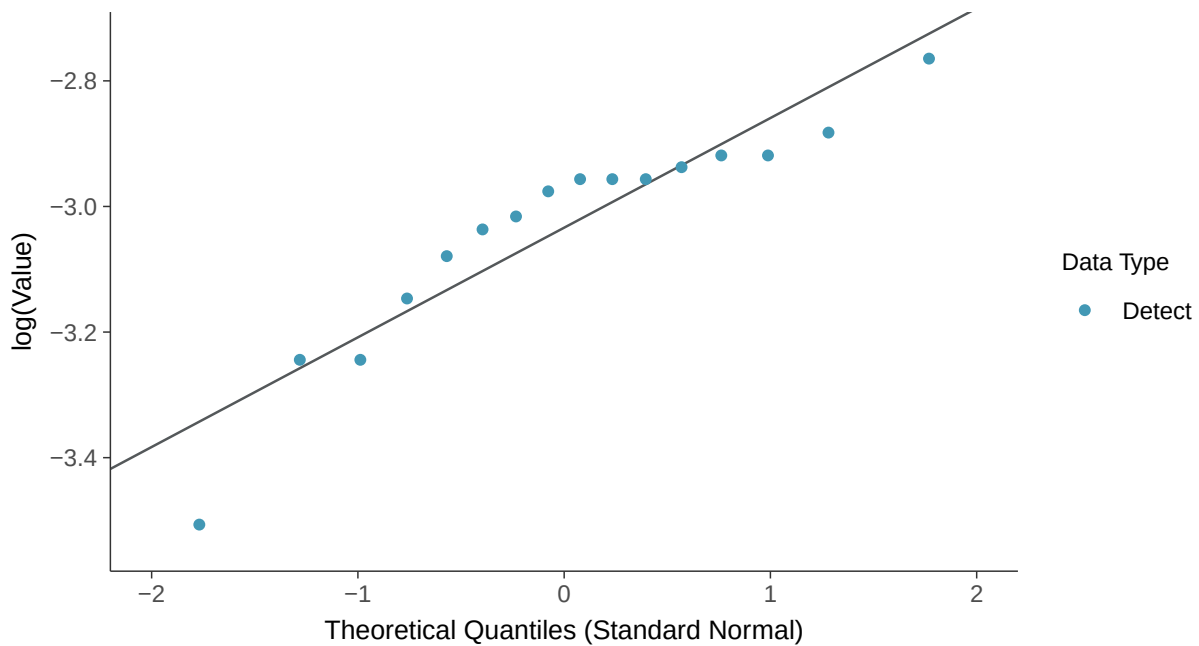
Normal Q-Q plot

Lithium, MW-31 (mg/L)



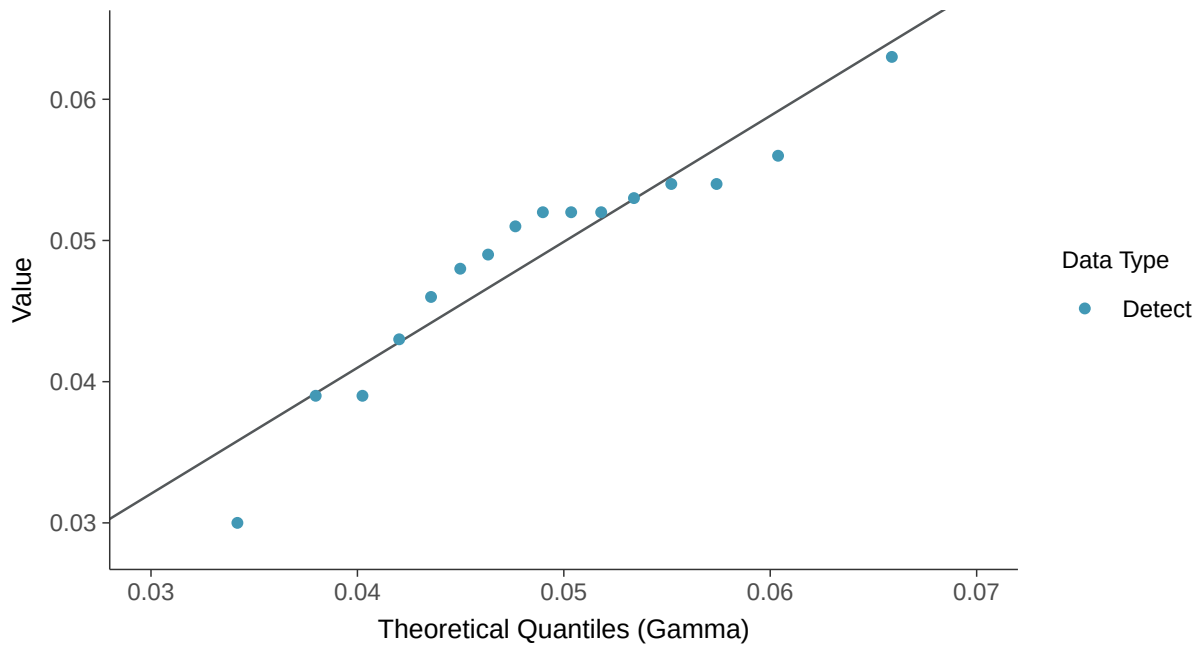
Lognormal Q-Q plot

Lithium, MW-31 (mg/L)



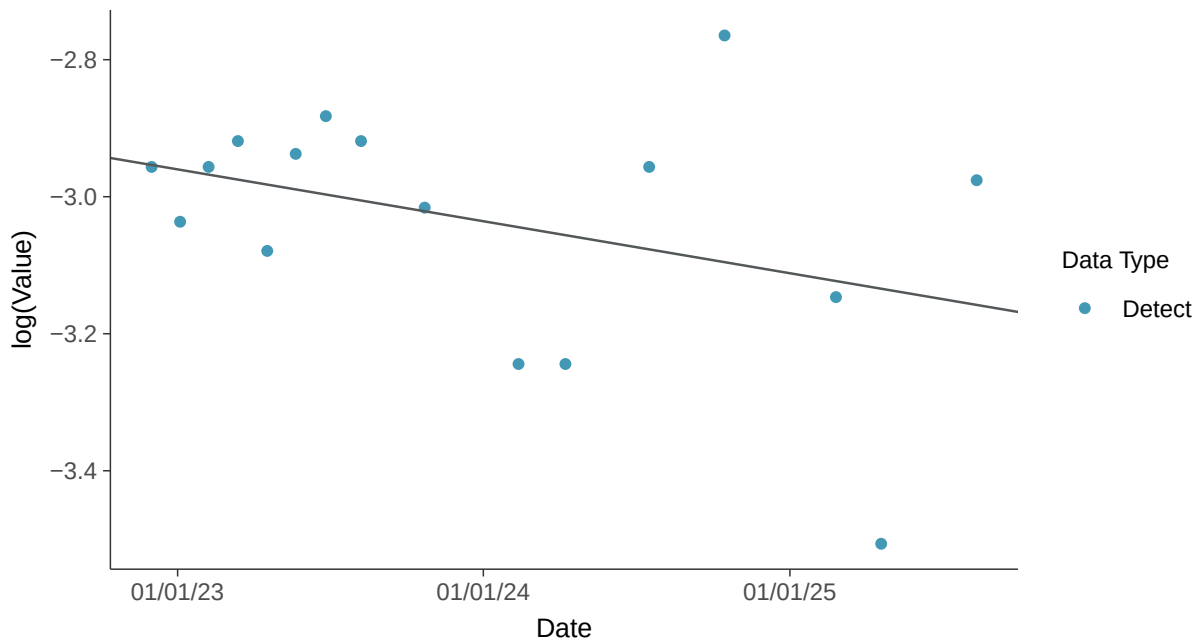
Gamma Q-Q plot

Lithium, MW-31 (mg/L)



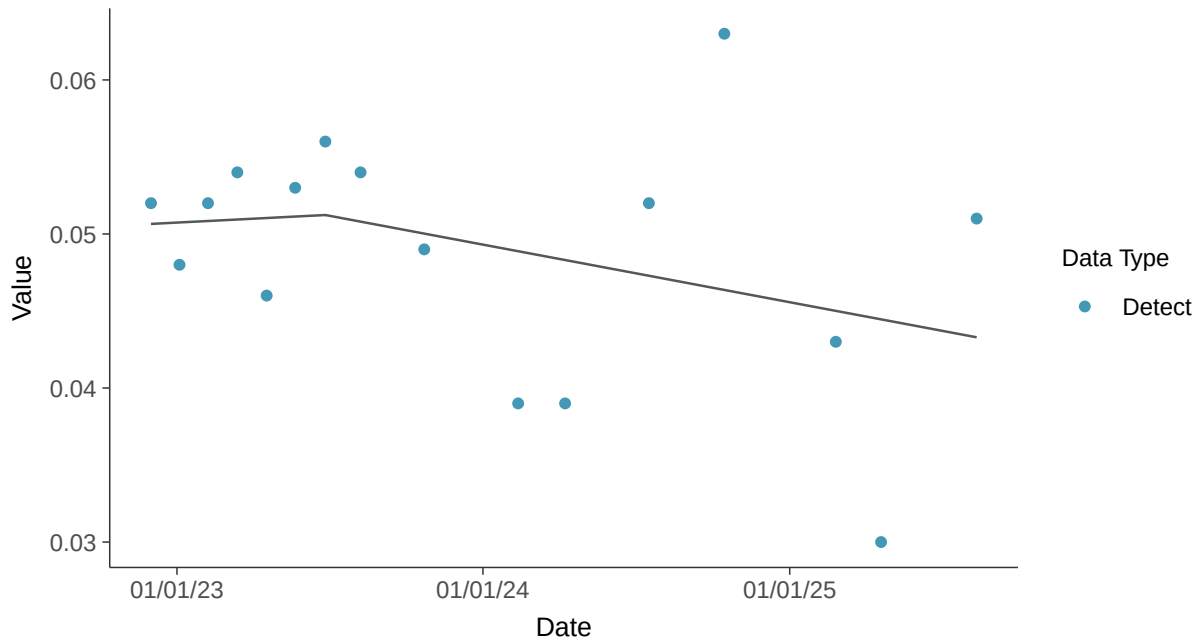
Trend Regression: Lognormal MLE

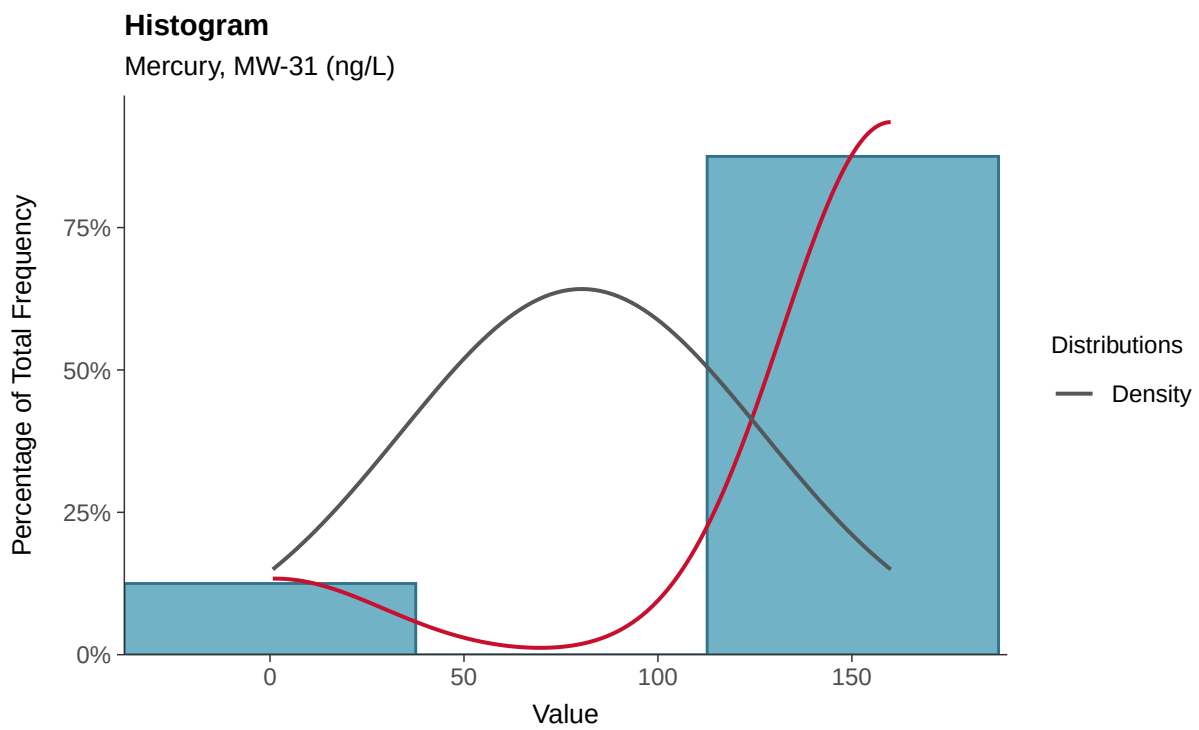
Lithium, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

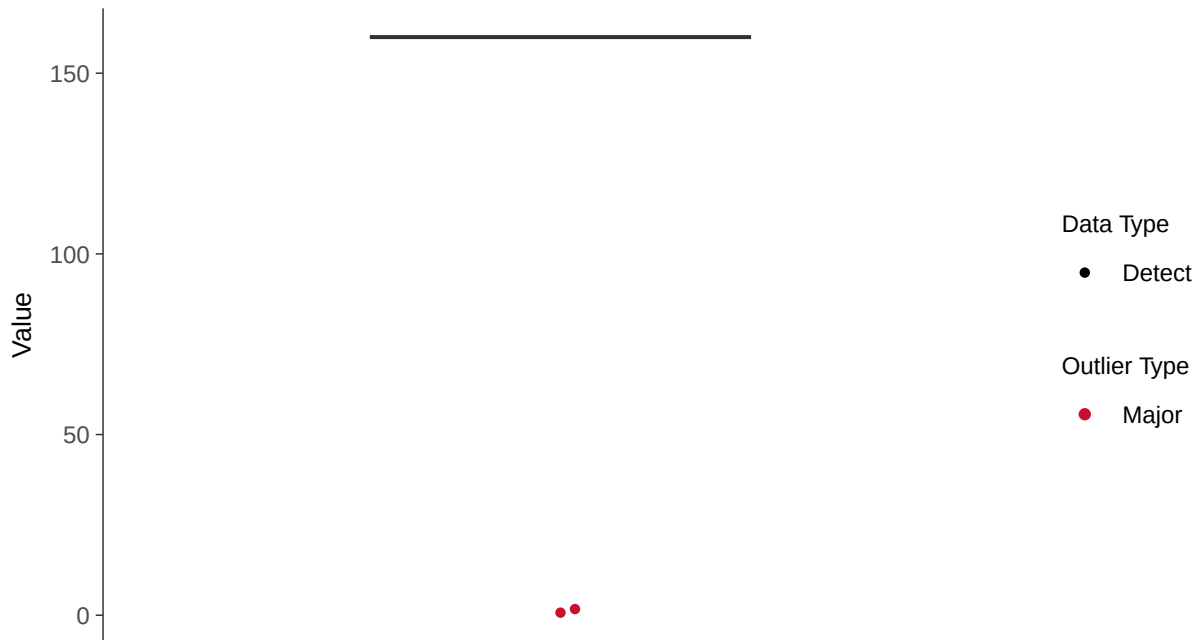
Lithium, MW-31 (mg/L)





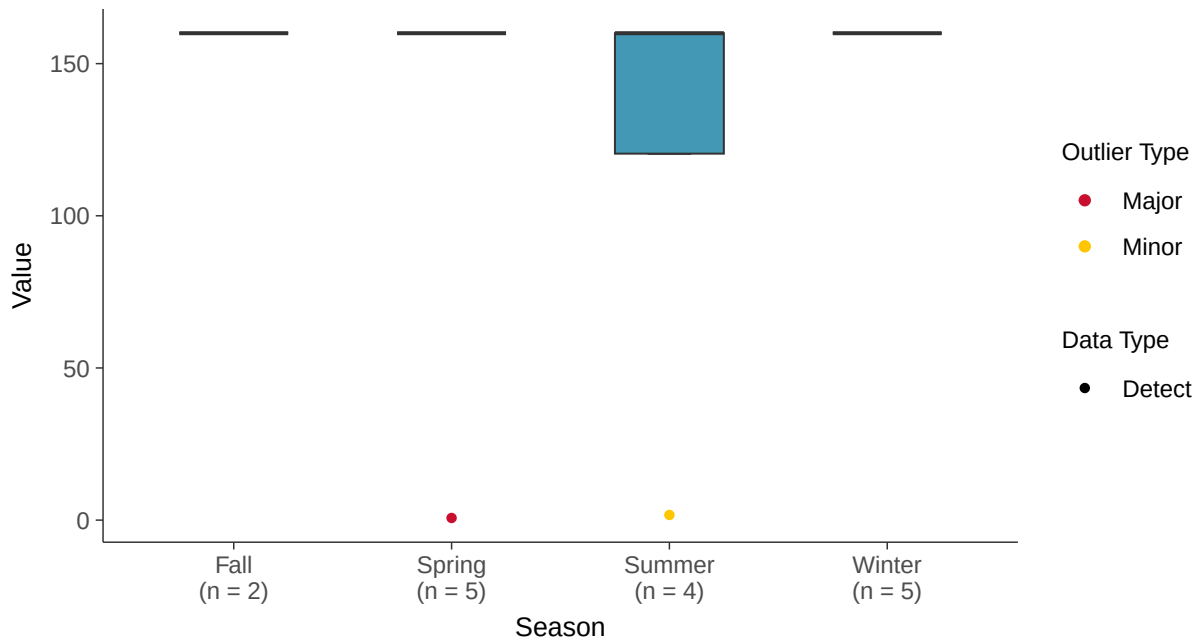
Boxplot

Mercury, MW-31 (ng/L)

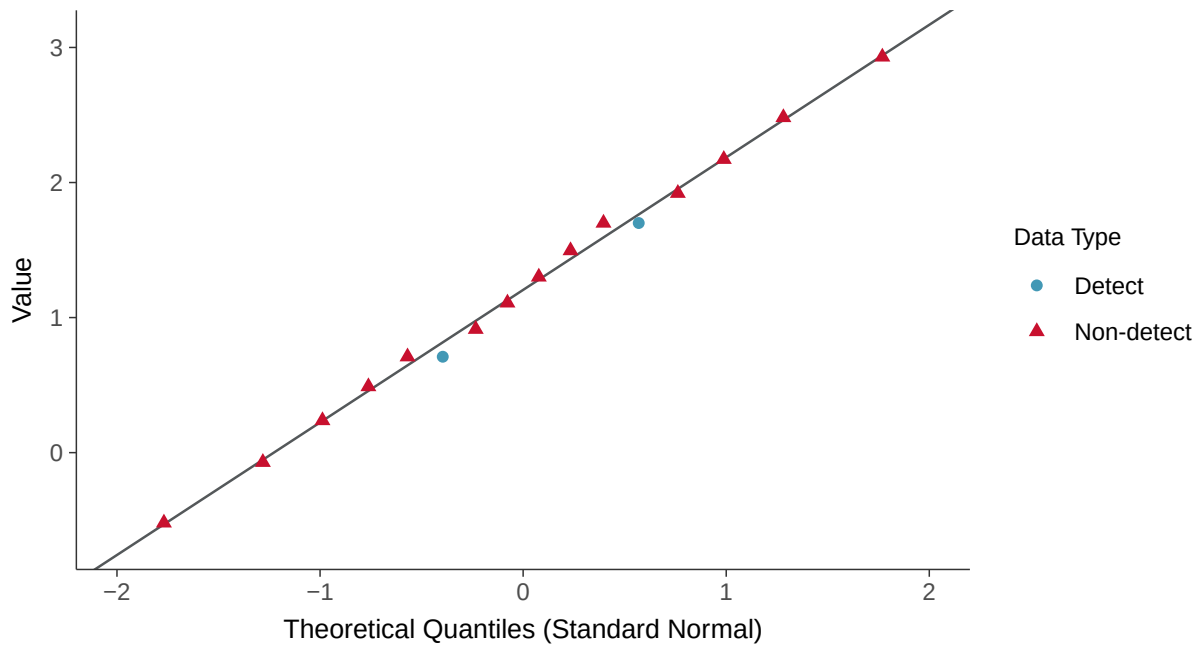


Boxplot by Season

Mercury, MW-31 (ng/L)

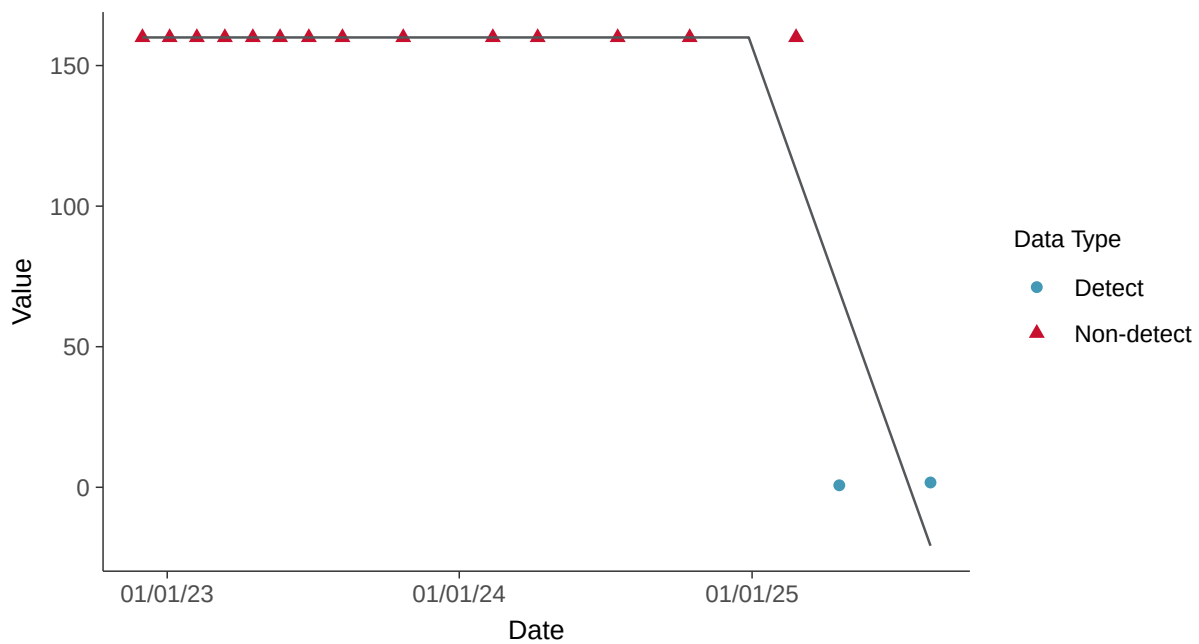


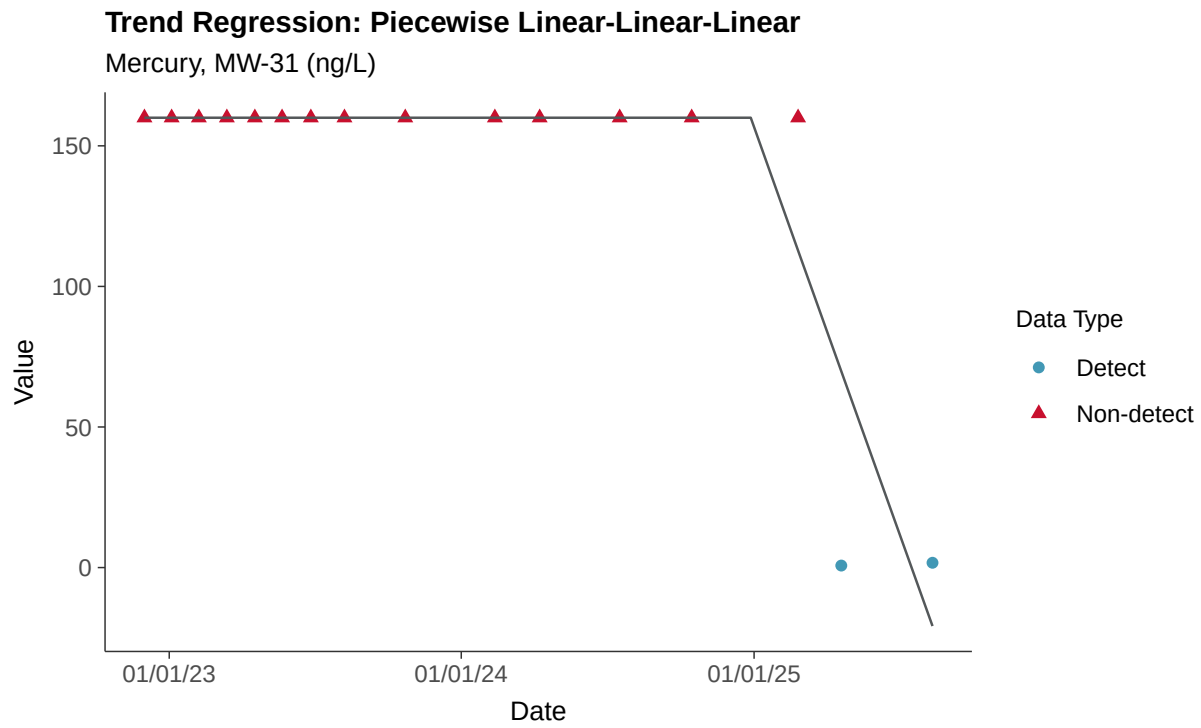
Mercury, MW-31 (ng/L)



Trend Regression: Piecewise Linear-Linear

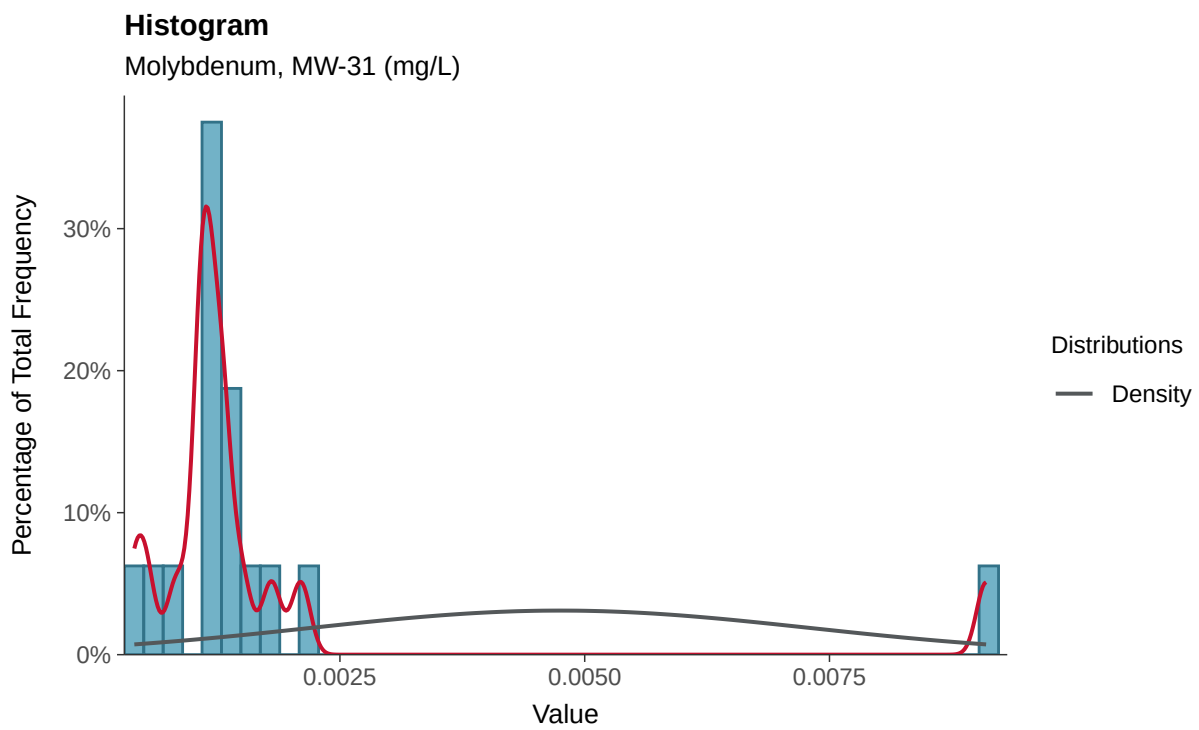
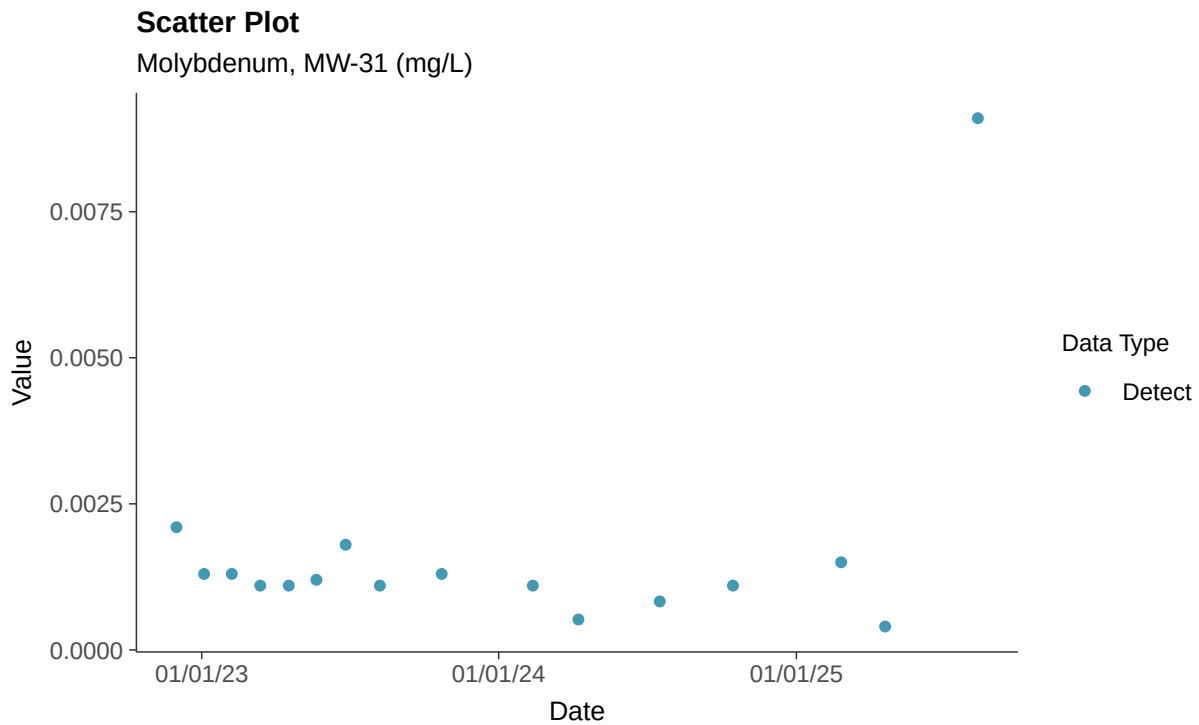
Mercury, MW-31 (ng/L)





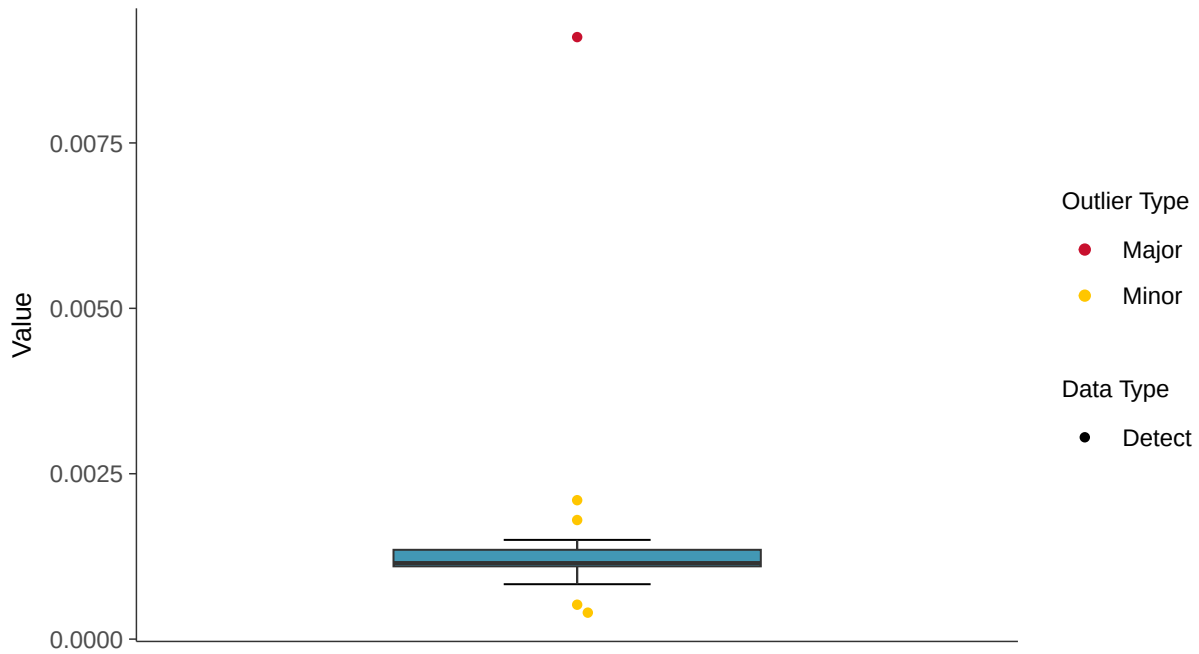
Appendix IV: Molybdenum, MW-31

ID: 41_1_4_118



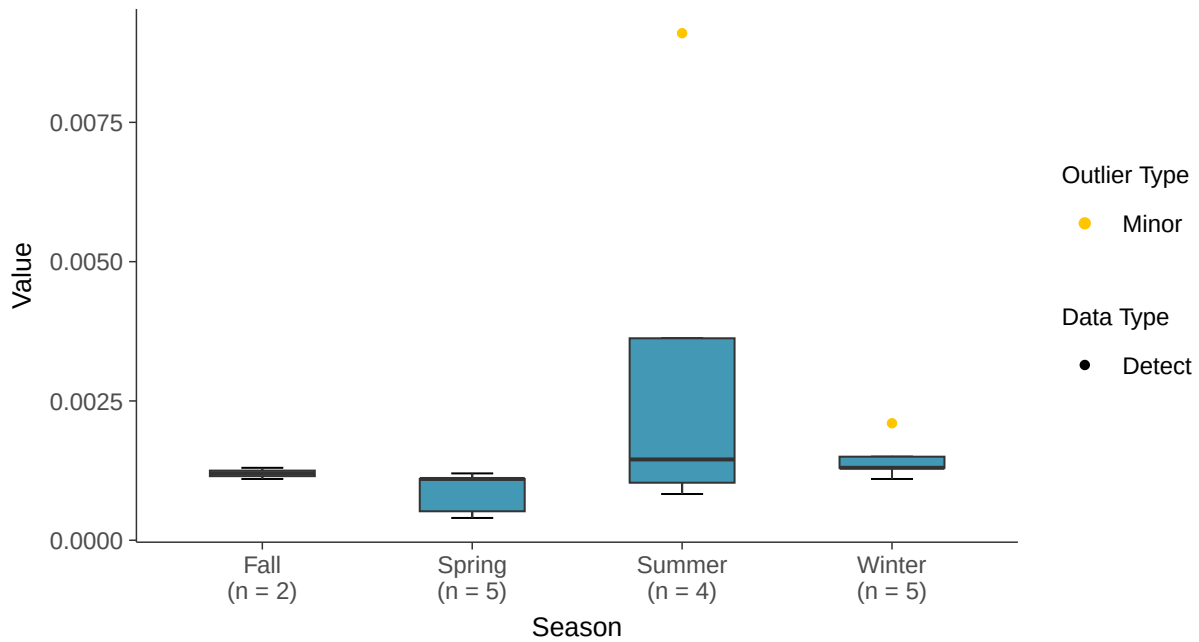
Boxplot

Molybdenum, MW-31 (mg/L)



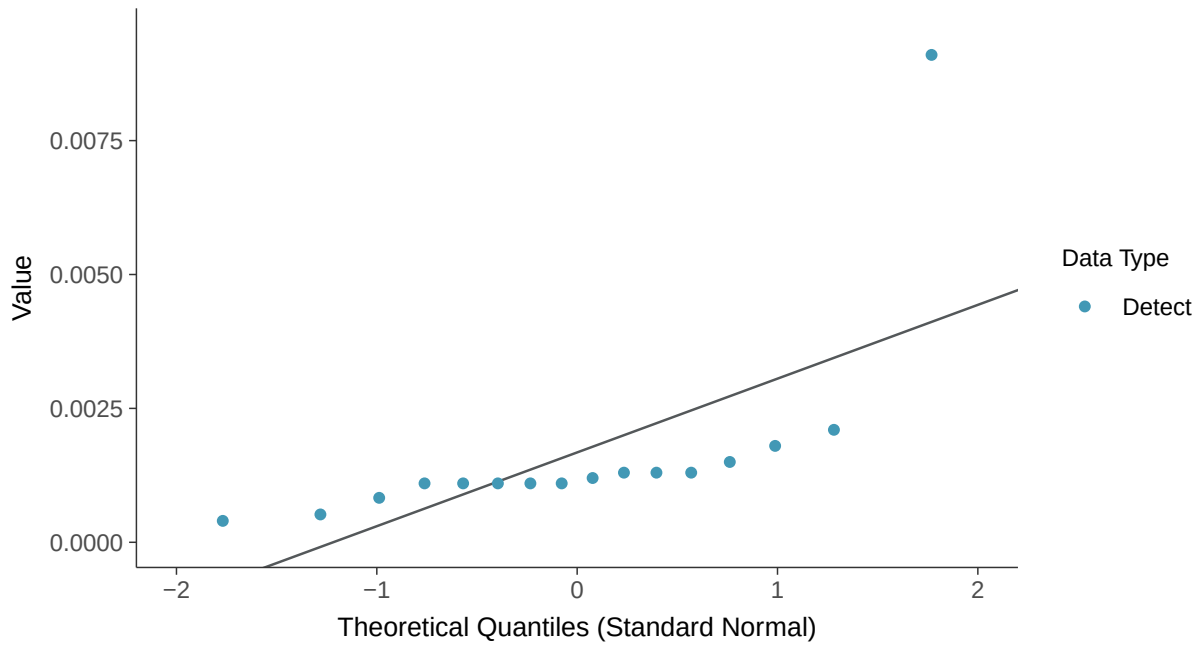
Boxplot by Season

Molybdenum, MW-31 (mg/L)



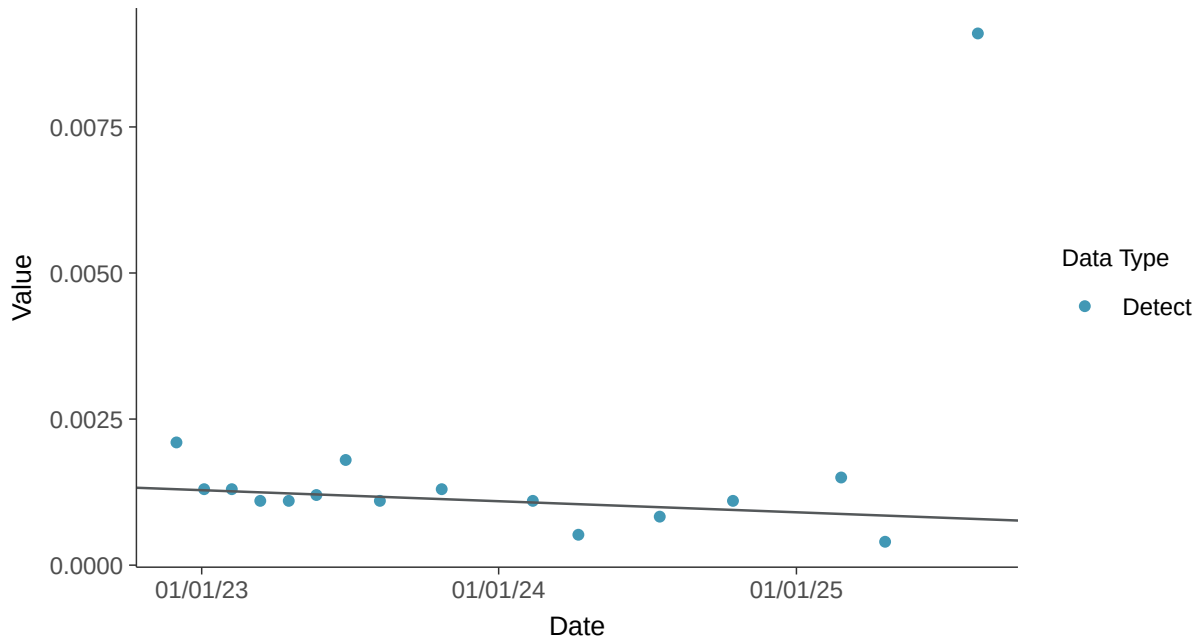
Normal Q-Q plot

Molybdenum, MW-31 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Molybdenum, MW-31 (mg/L)

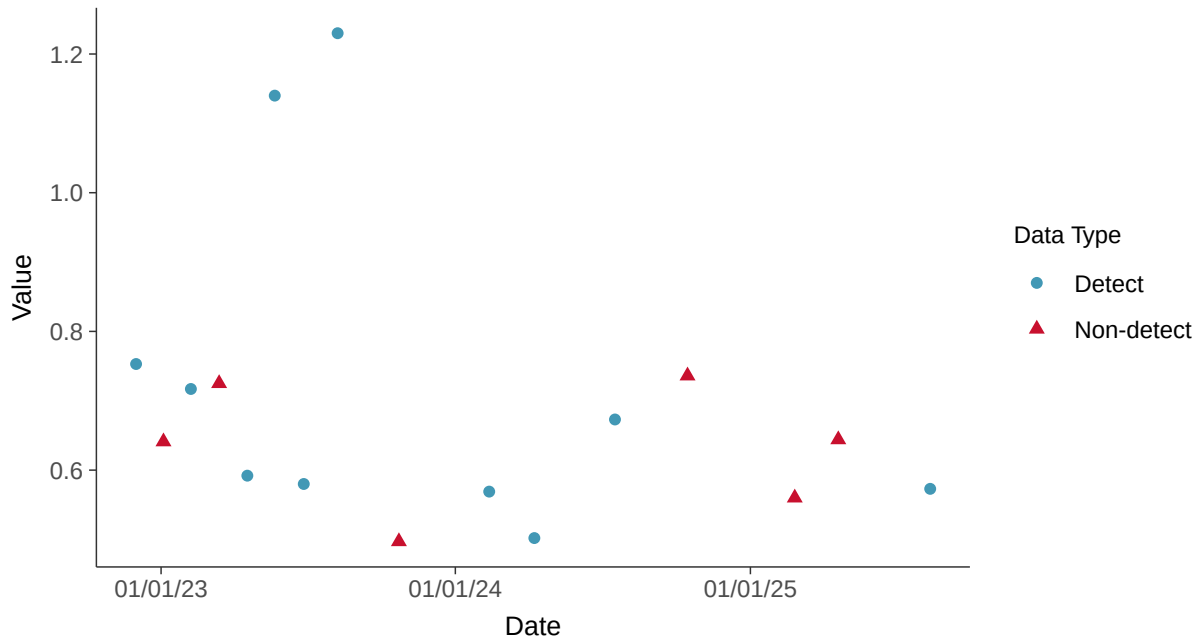


Appendix IV: Radium 226 and 228, MW-31

ID: 41_1_4_121

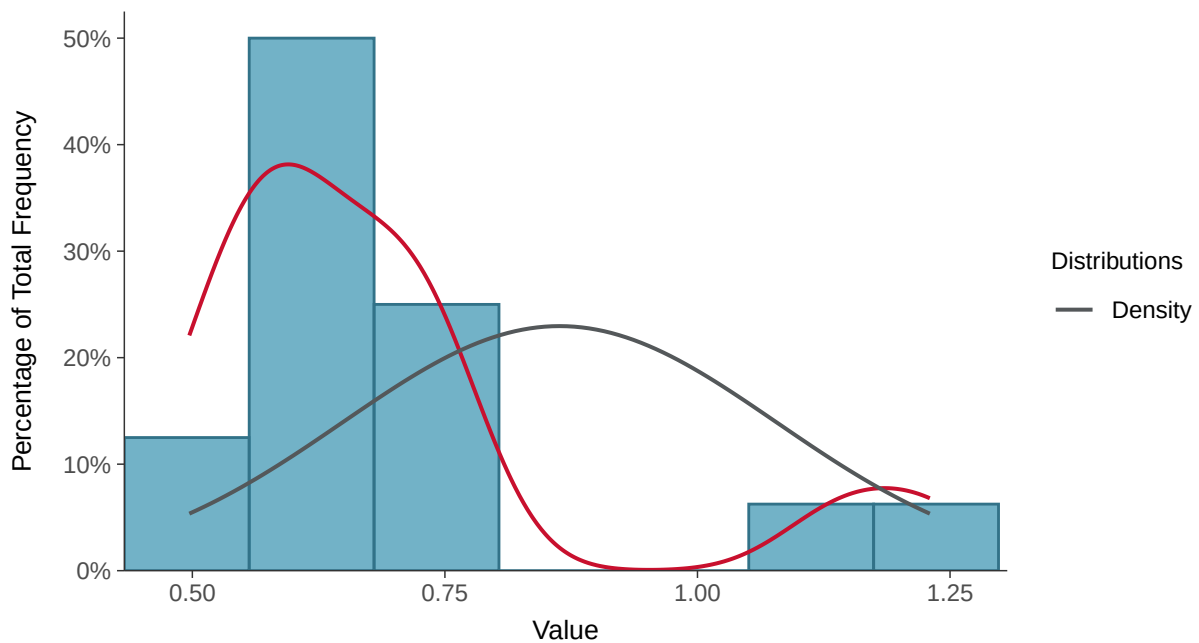
Scatter Plot

Radium 226 and 228, MW-31 (pCi/L)



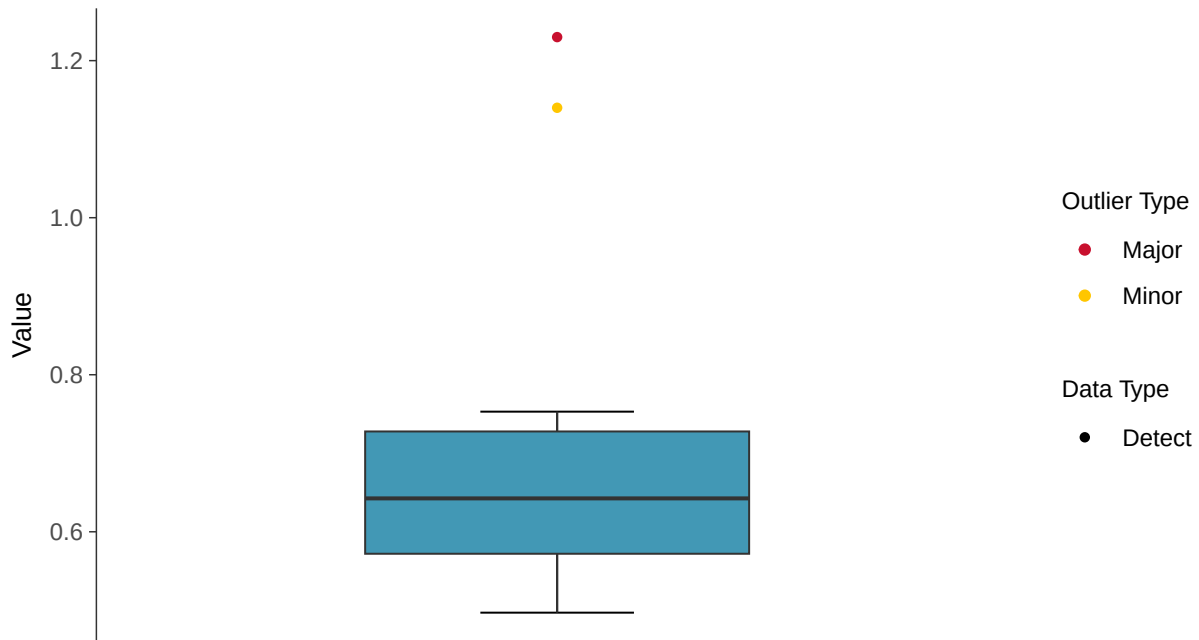
Histogram

Radium 226 and 228, MW-31 (pCi/L)



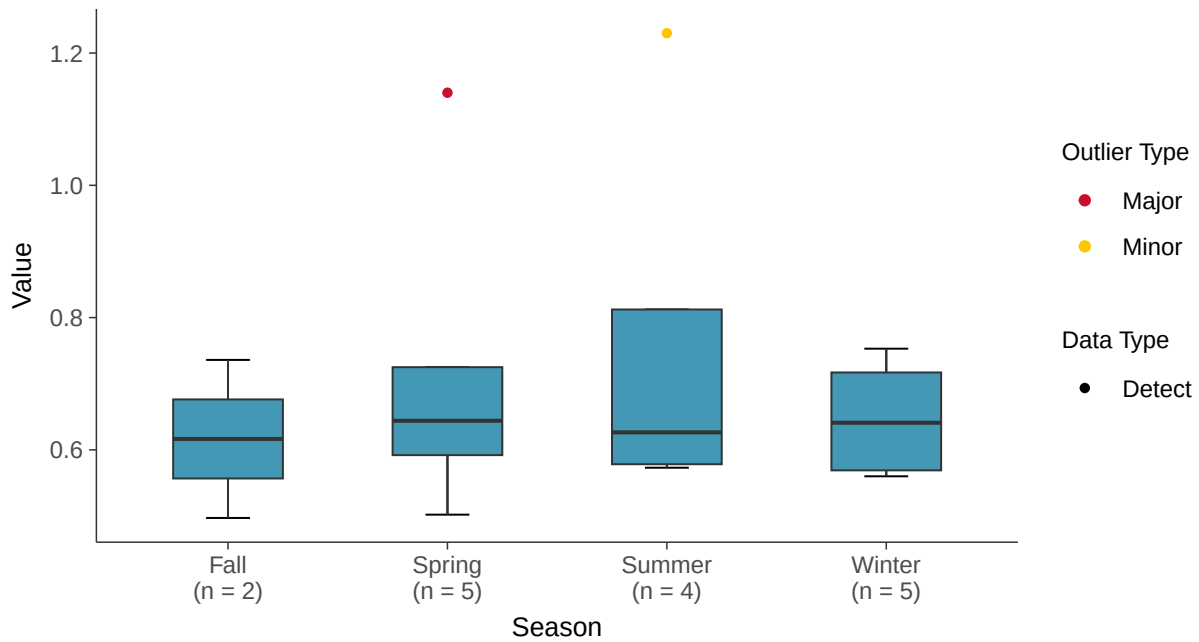
Boxplot

Radium 226 and 228, MW-31 (pCi/L)



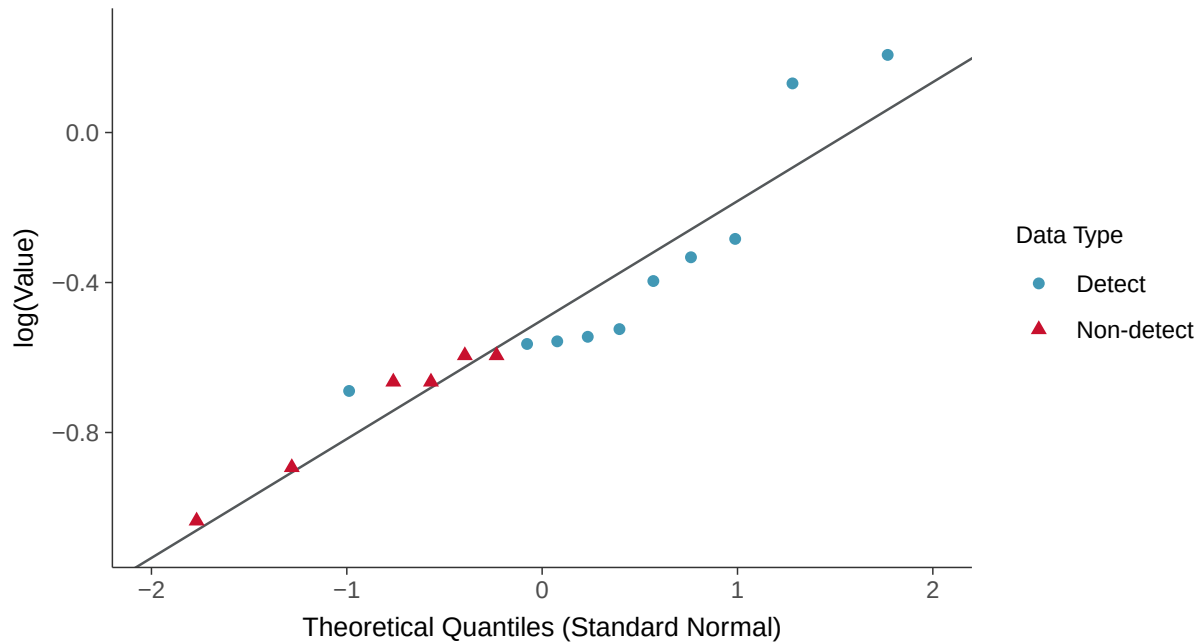
Boxplot by Season

Radium 226 and 228, MW-31 (pCi/L)



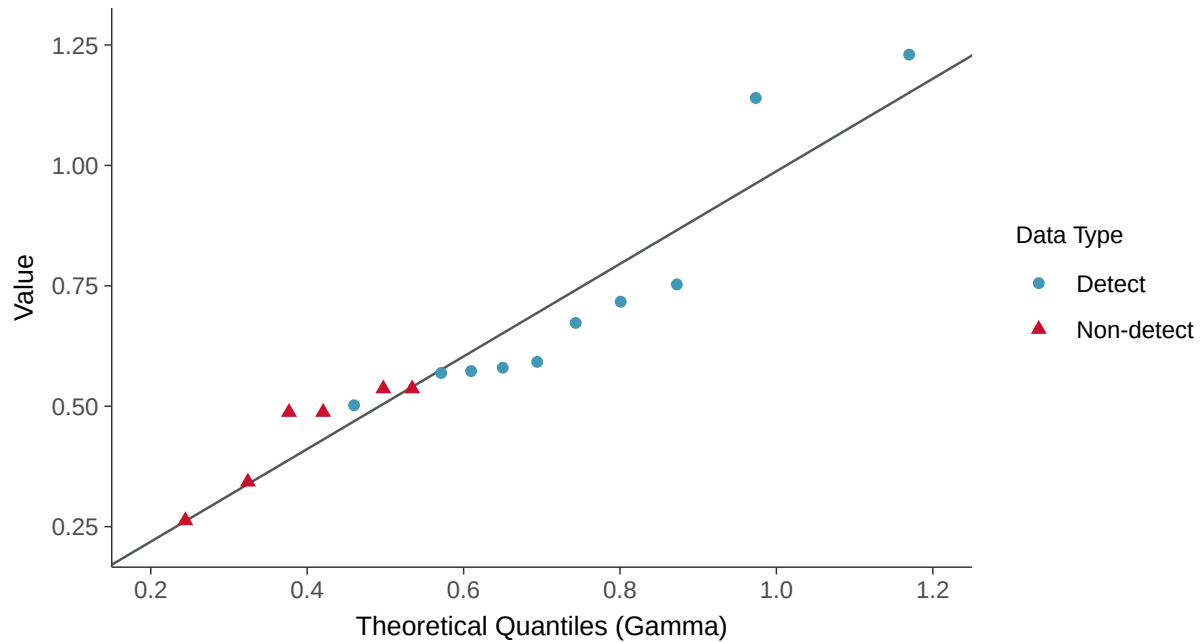
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-31 (pCi/L)



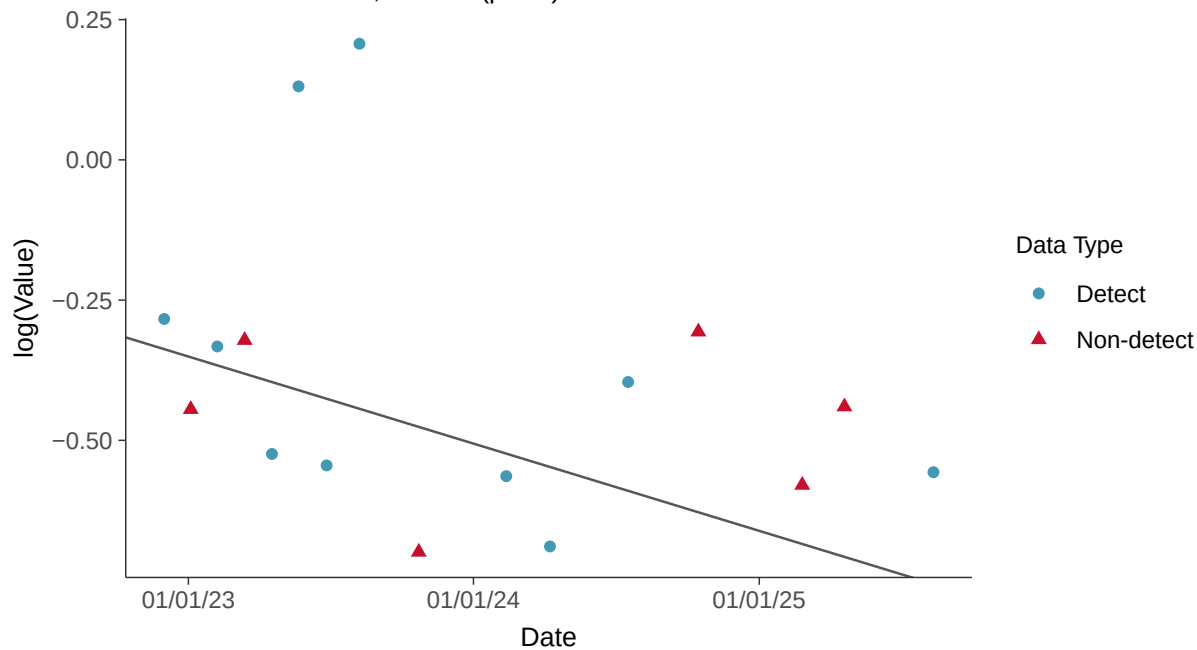
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-31 (pCi/L)



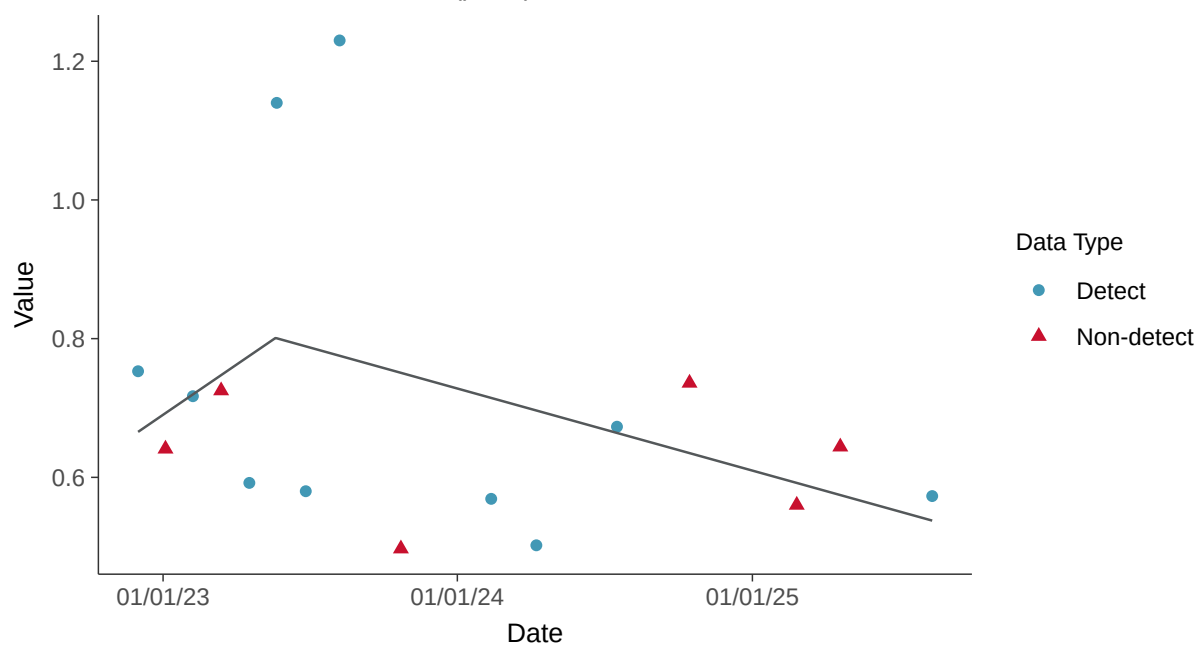
Trend Regression: Lognormal MLE

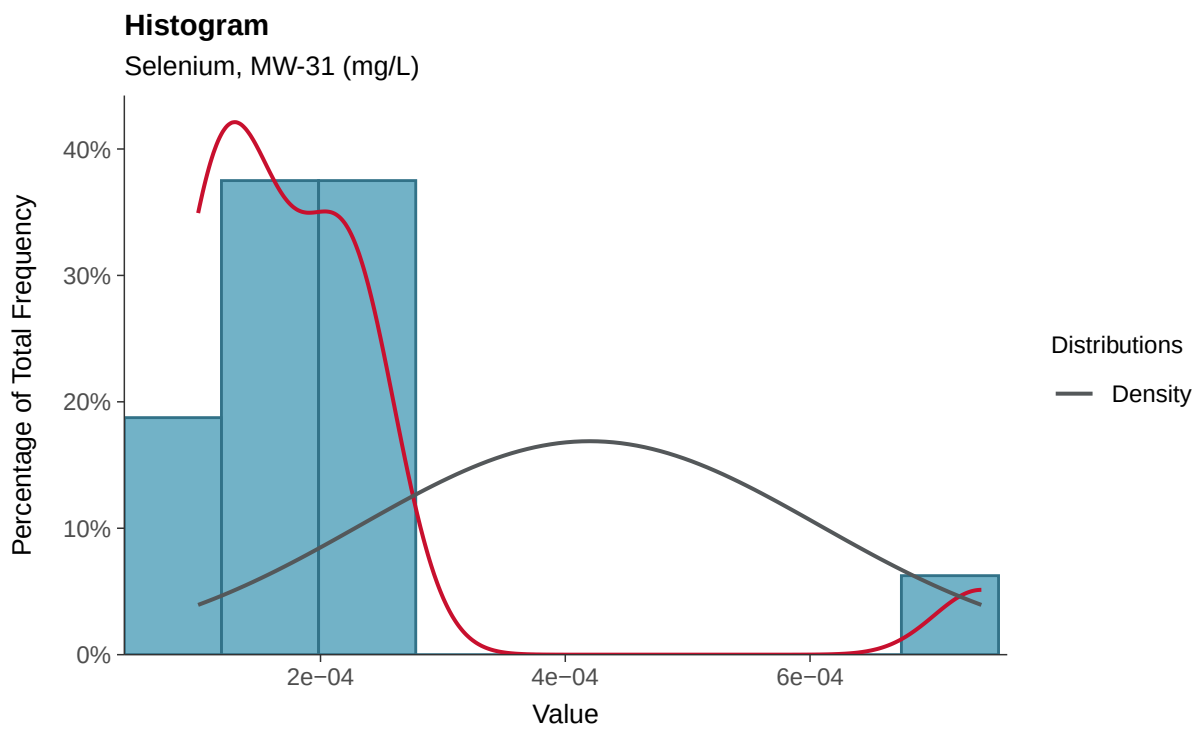
Radium 226 and 228, MW-31 (pCi/L)



Trend Regression: Piecewise Linear-Linear

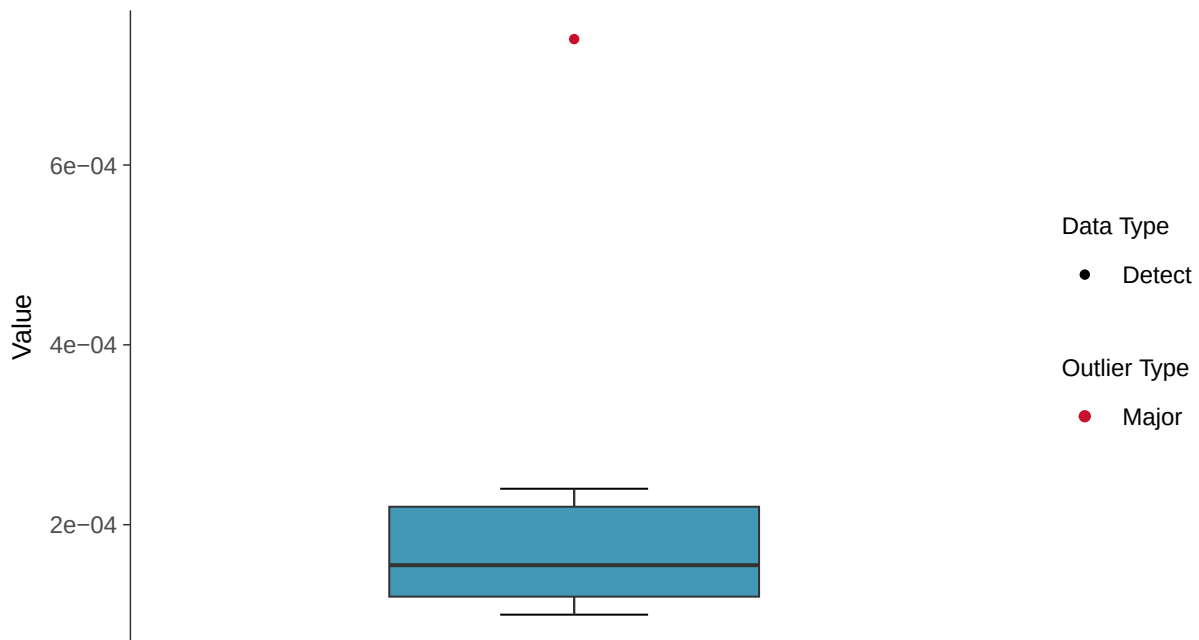
Radium 226 and 228, MW-31 (pCi/L)





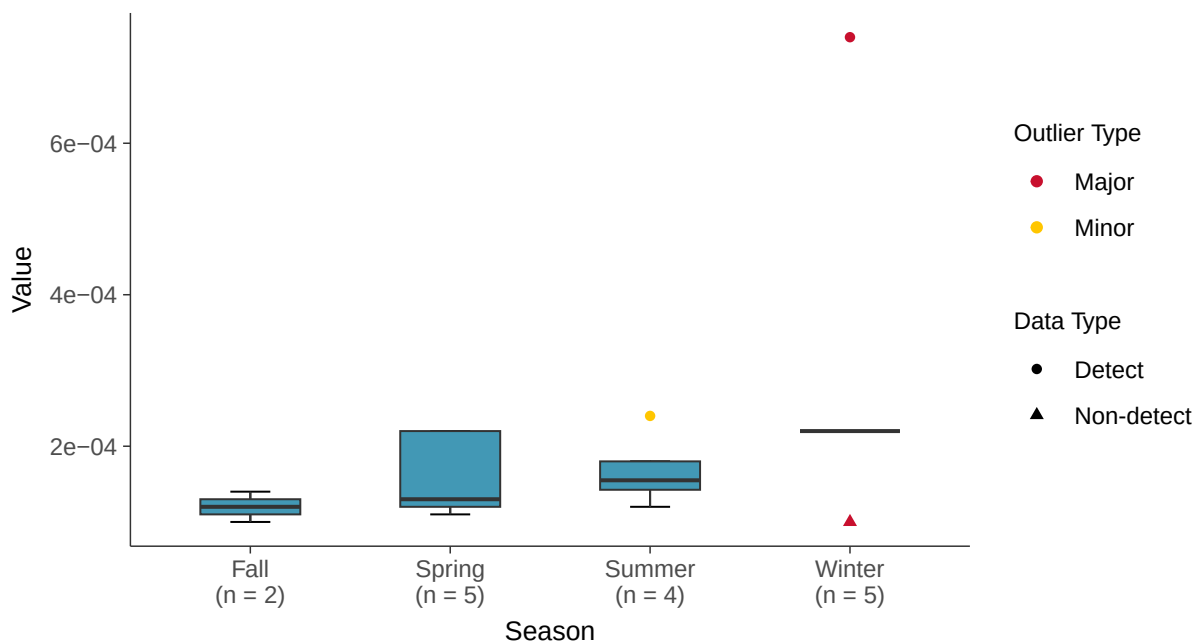
Boxplot

Selenium, MW-31 (mg/L)

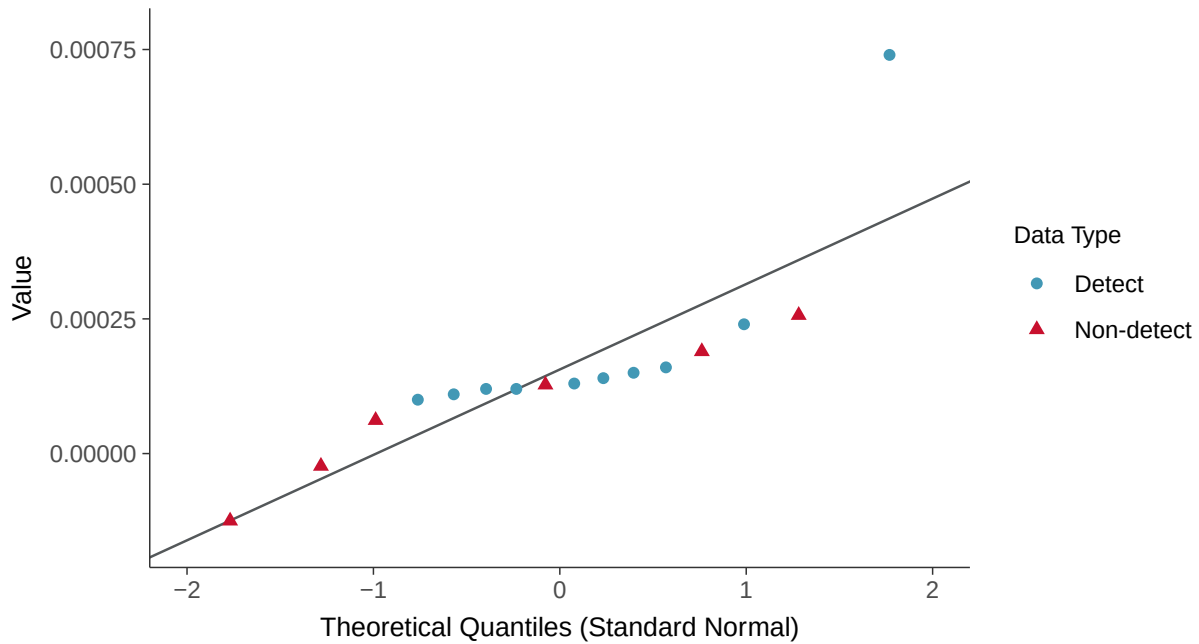


Boxplot by Season

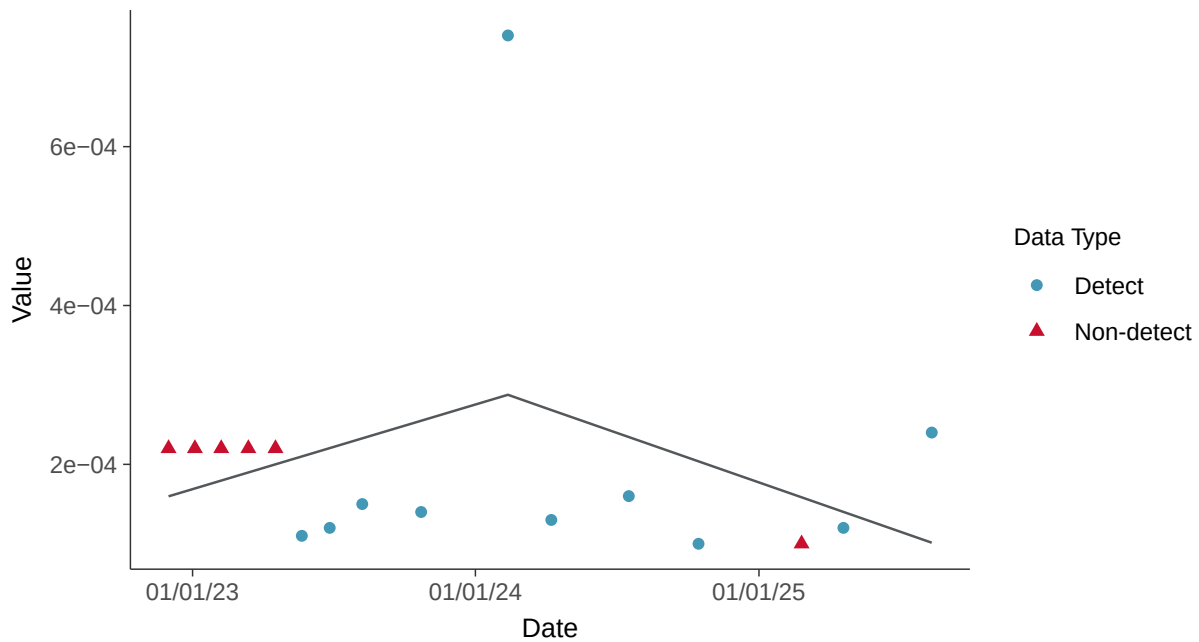
Selenium, MW-31 (mg/L)

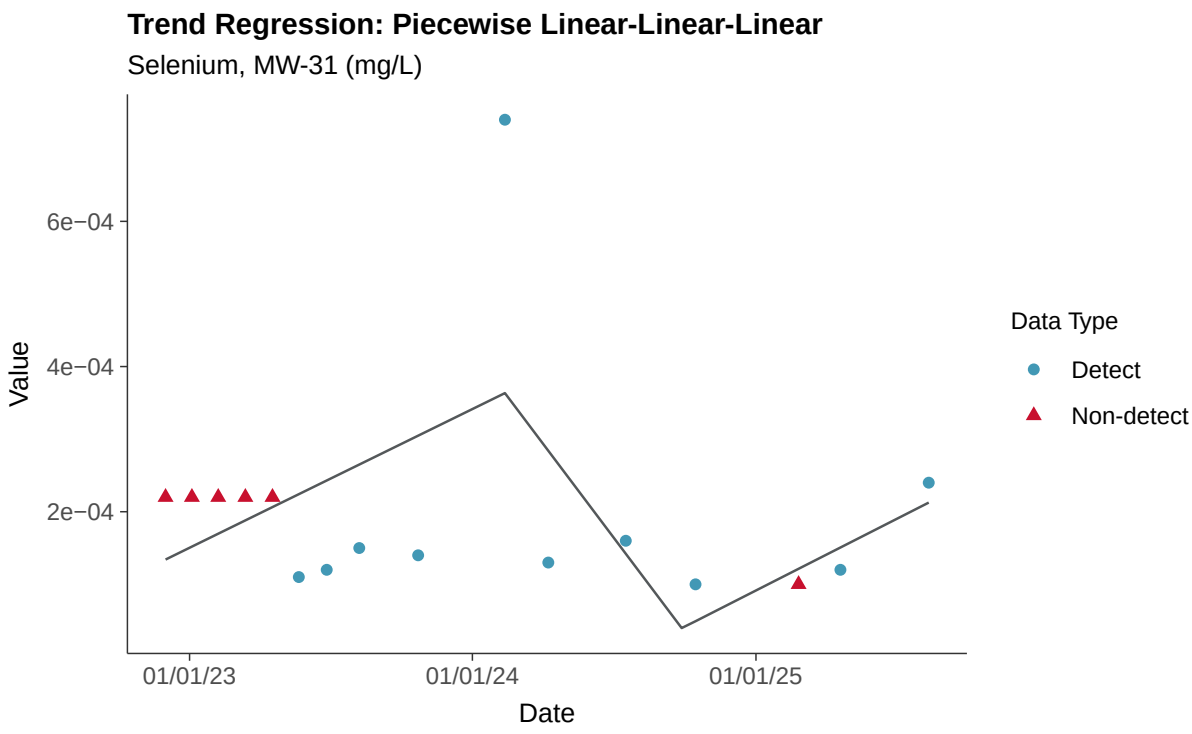


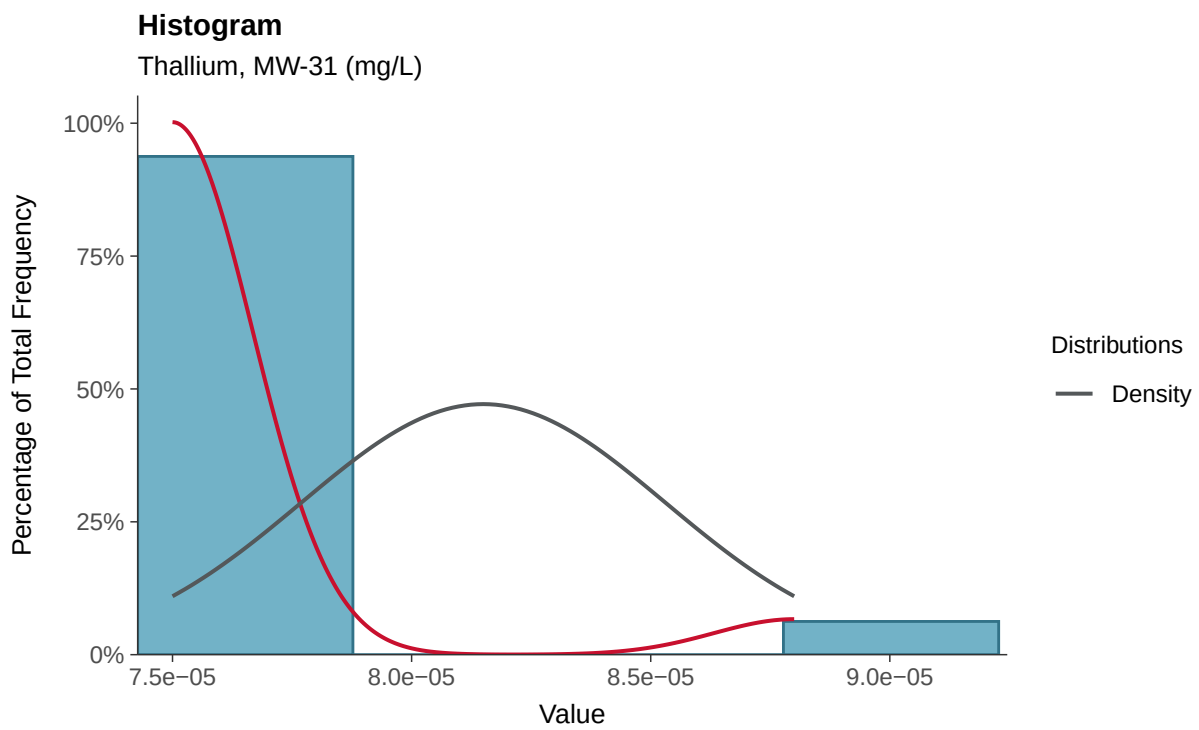
Selenium, MW-31 (mg/L)



Selenium, MW-31 (mg/L)

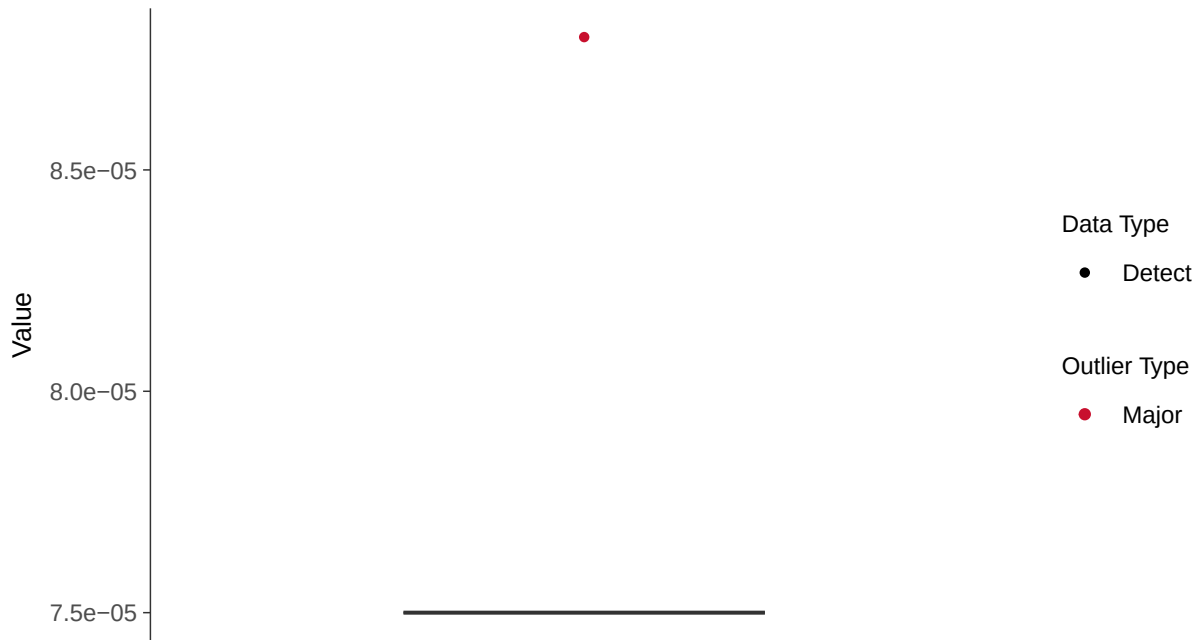






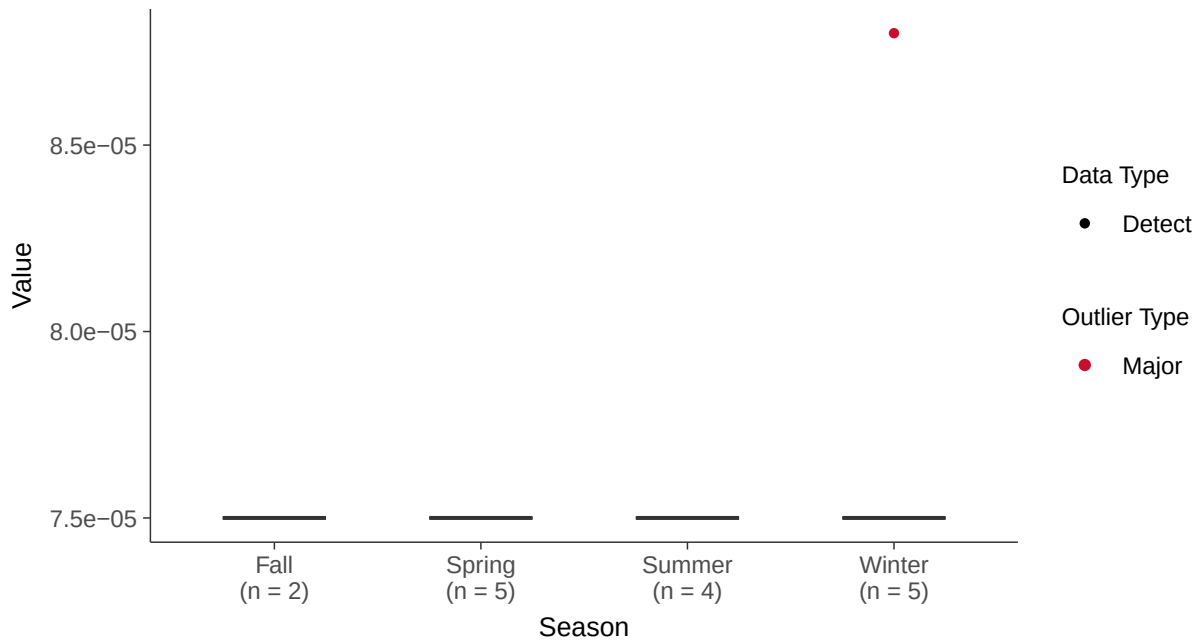
Boxplot

Thallium, MW-31 (mg/L)



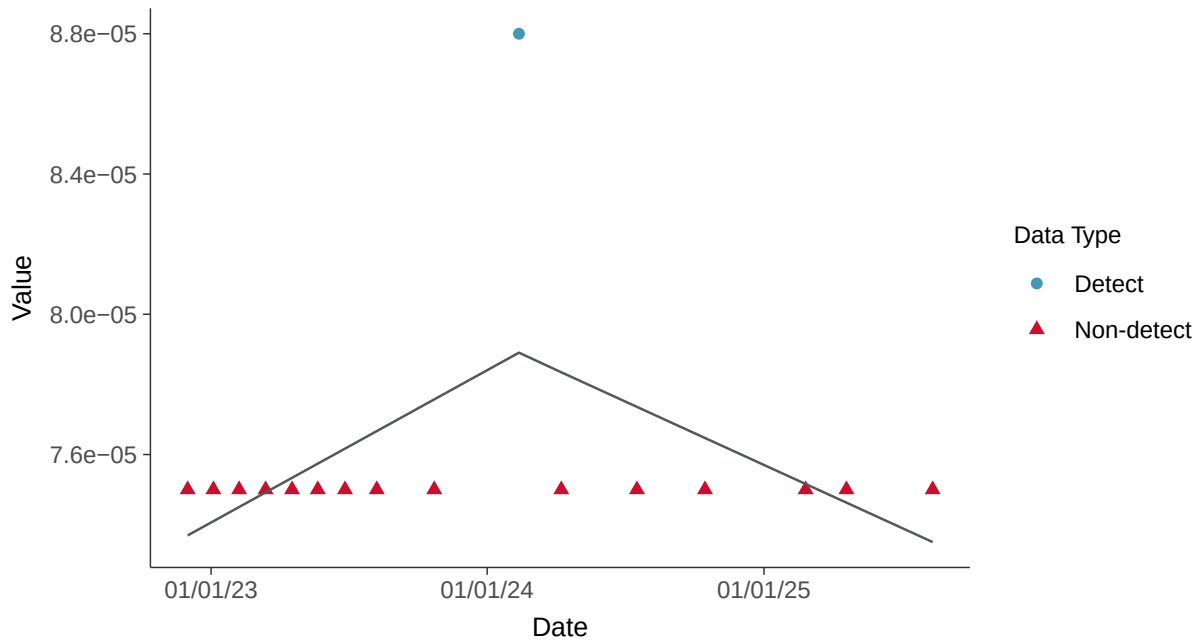
Boxplot by Season

Thallium, MW-31 (mg/L)



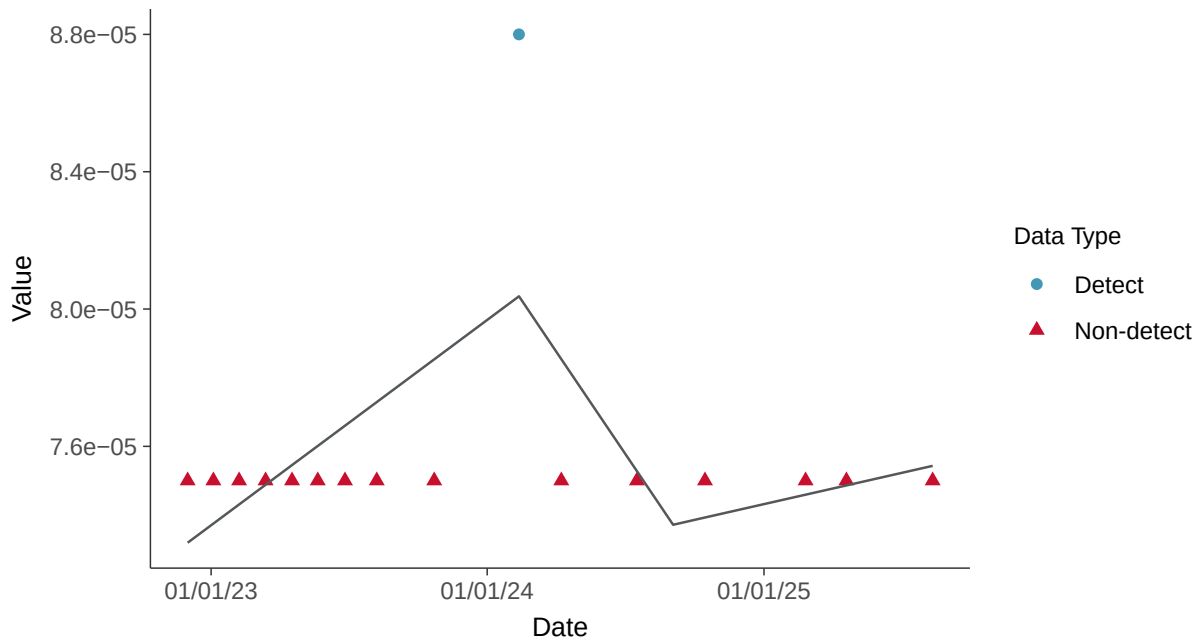
Trend Regression: Piecewise Linear-Linear

Thallium, MW-31 (mg/L)



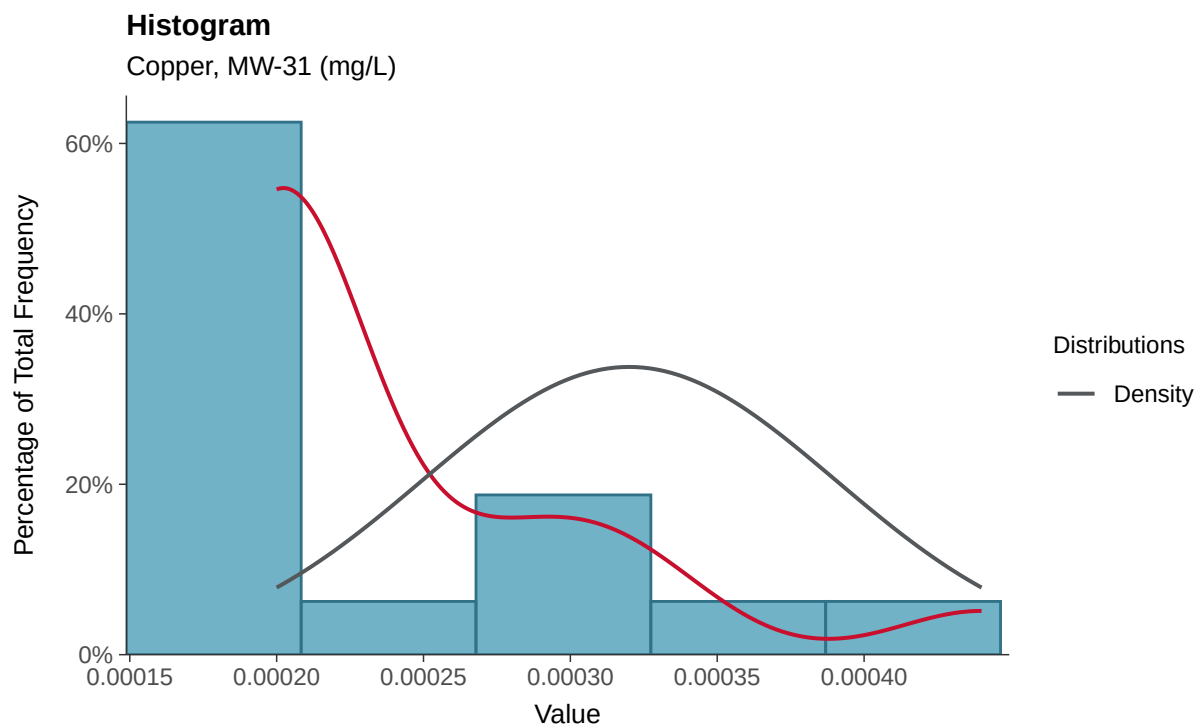
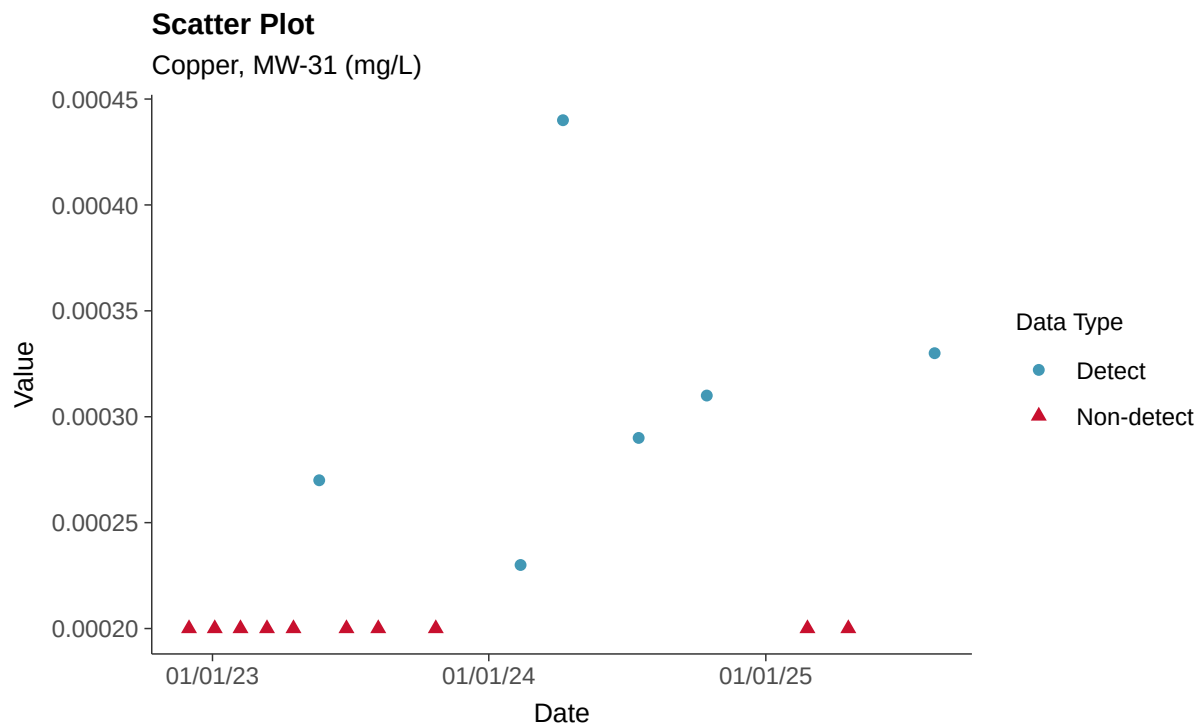
Trend Regression: Piecewise Linear-Linear-Linear

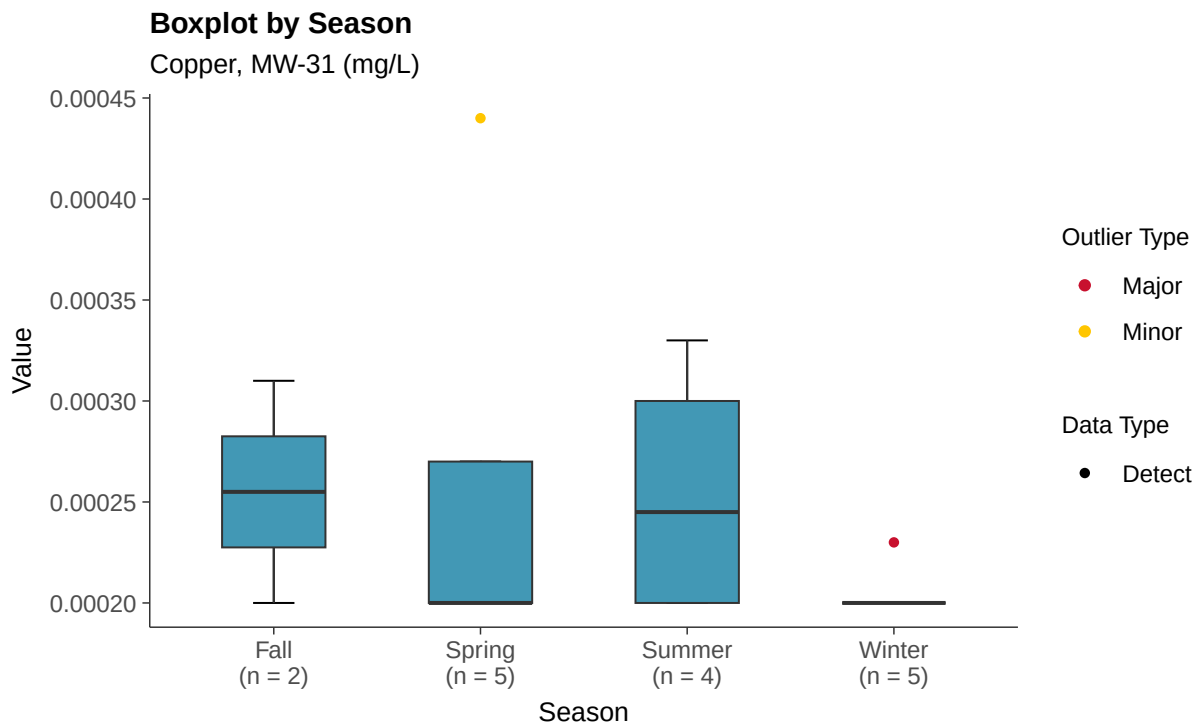
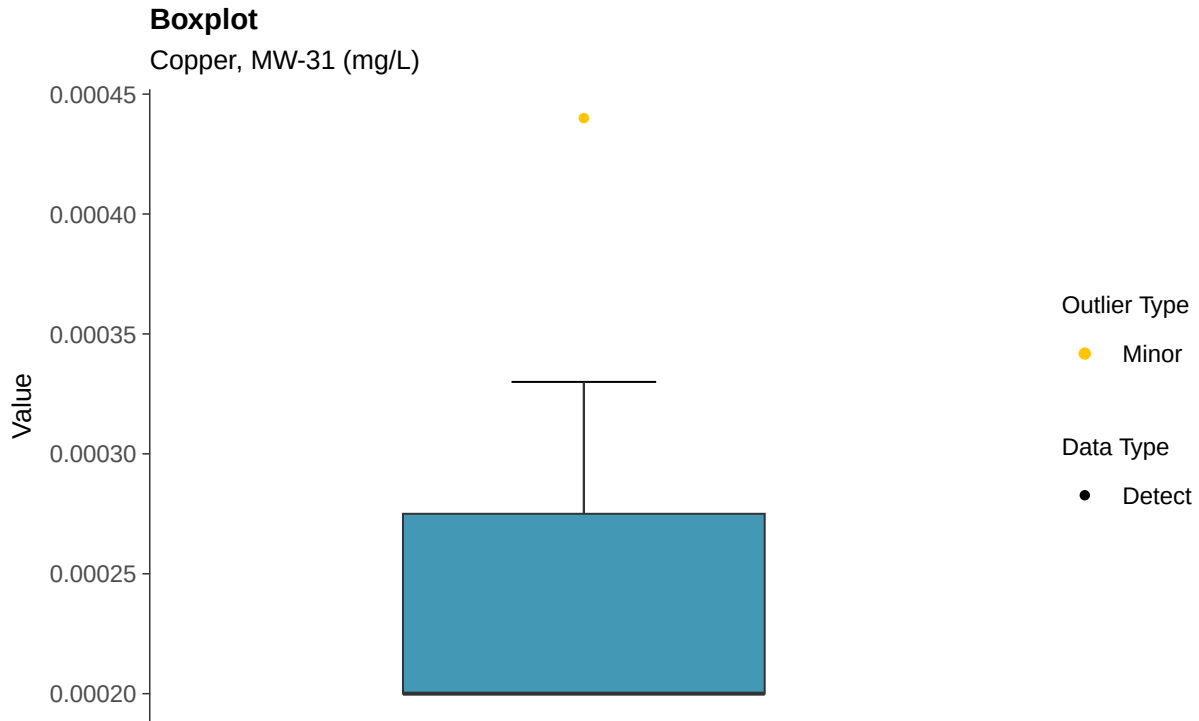
Thallium, MW-31 (mg/L)



Part 115: Copper, MW-31

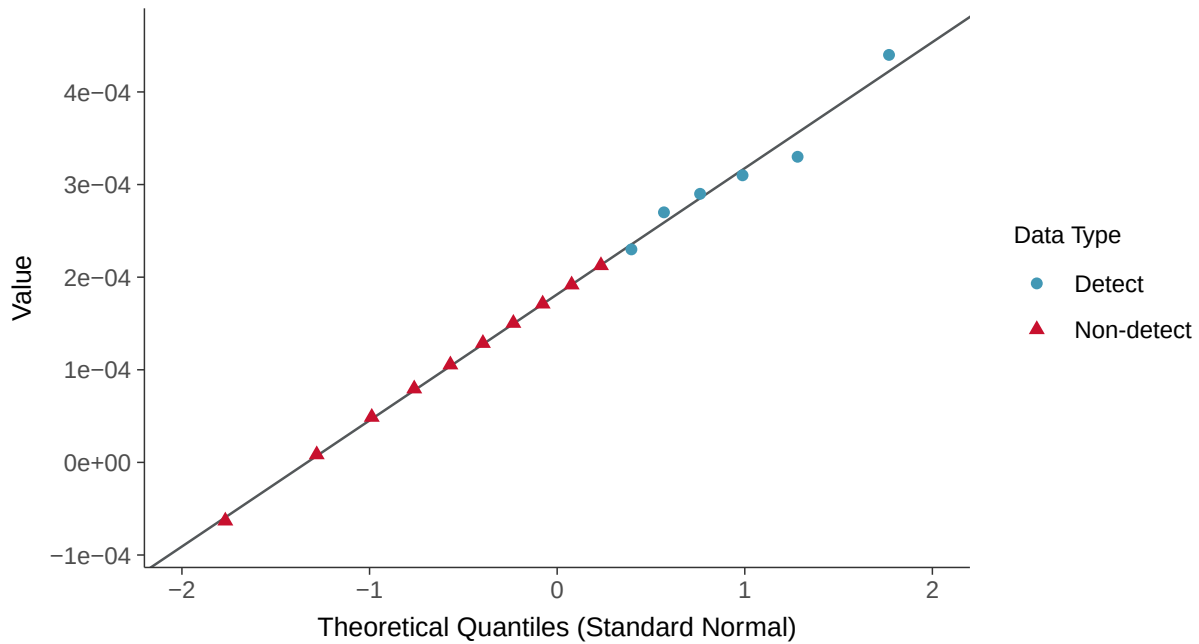
ID: 41_1_5_111





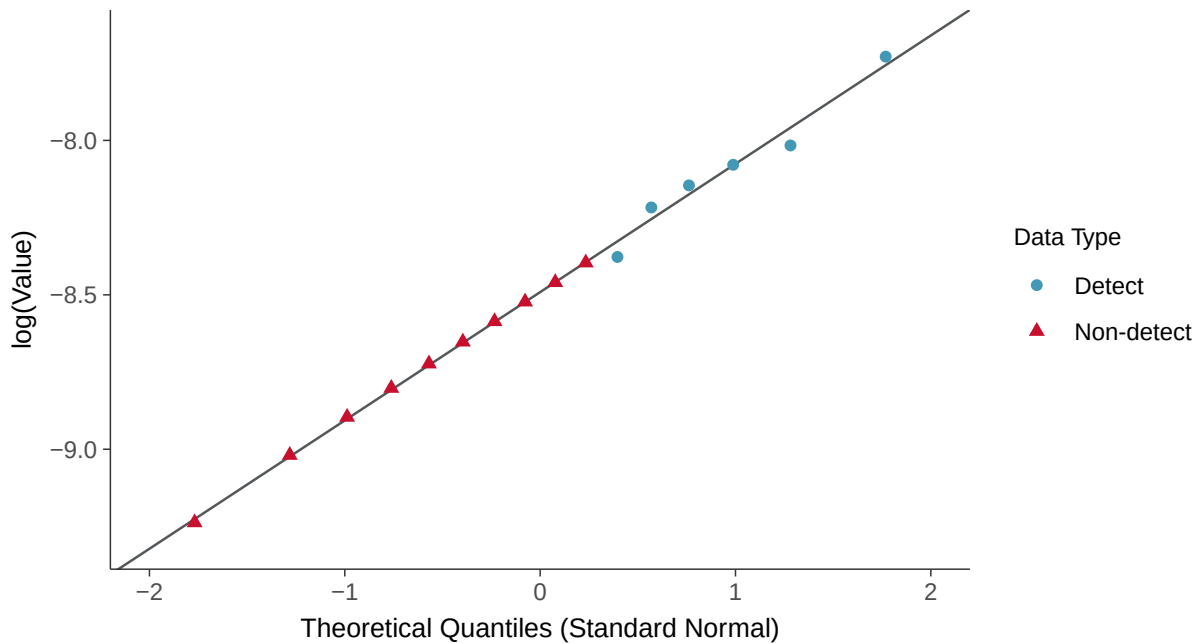
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-31 (mg/L)



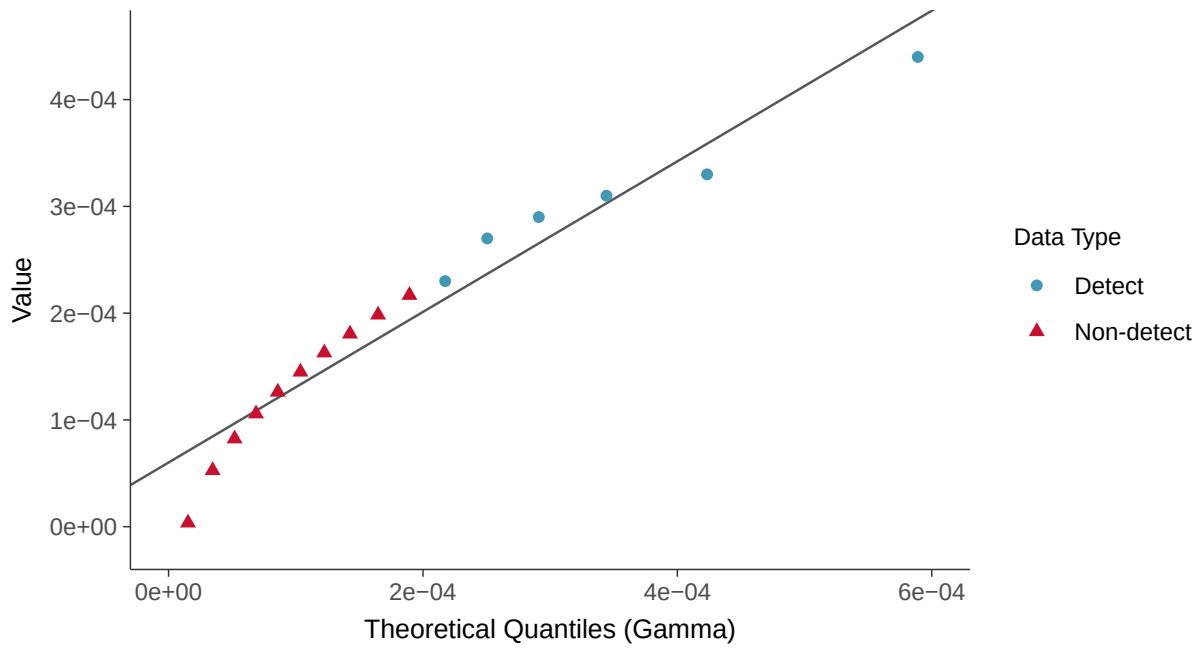
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-31 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-31 (mg/L)

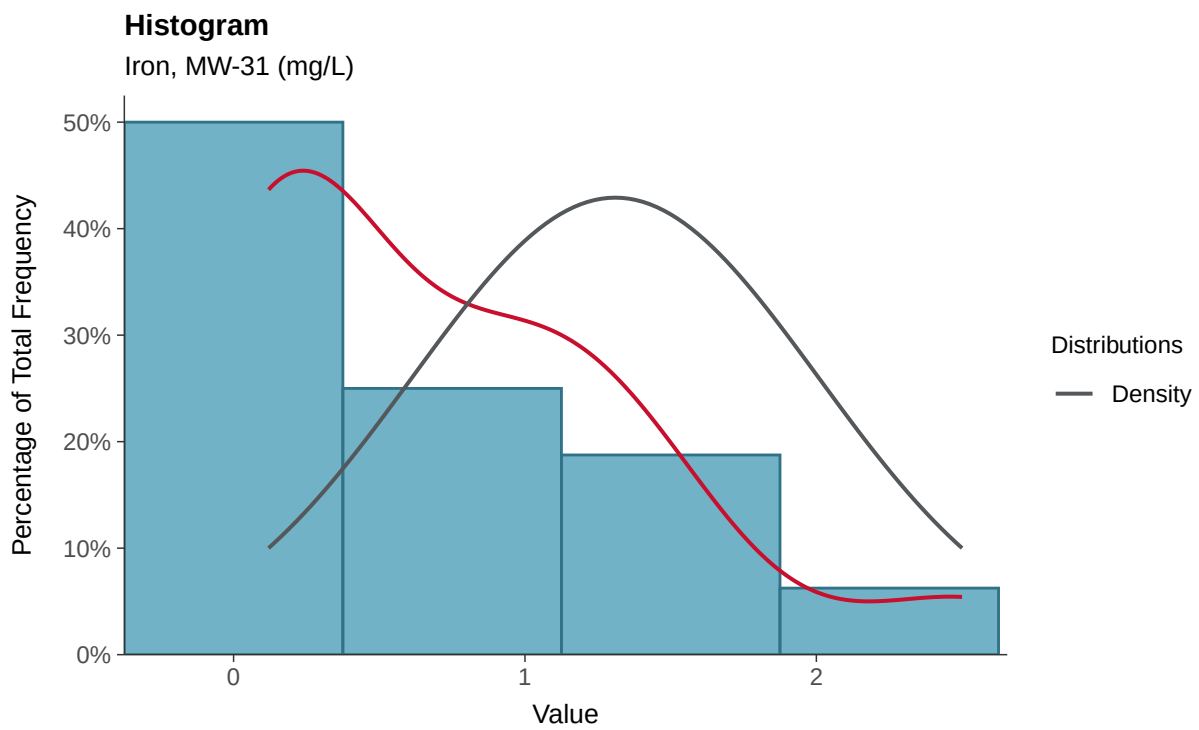
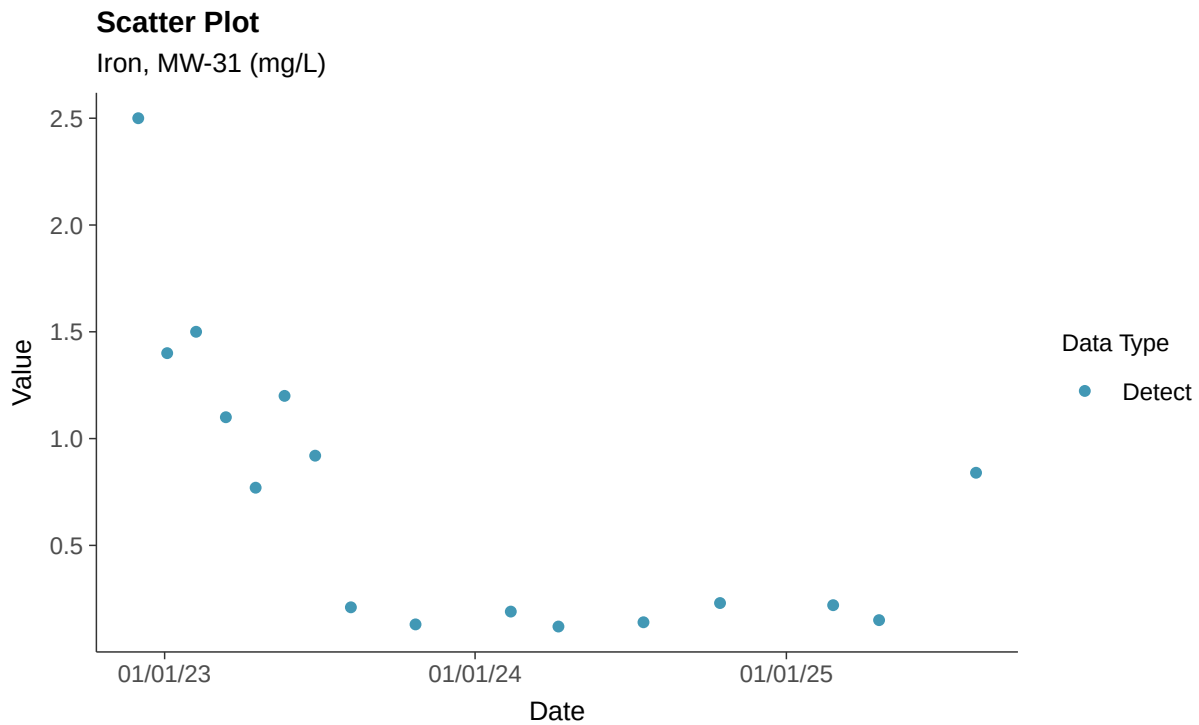


A scatter plot showing 'Value' on the y-axis (ranging from 0 to 1.2e-03) and 'Date' on the x-axis (from 01/01/23 to 01/01/25). The plot includes two data series: 'Detect' (blue circles) and 'Non-detect' (red triangles). A grey trend line is shown, which remains relatively flat until early 2024, then rises sharply to approximately 1.1e-03 by mid-2024. The 'Detect' data points are scattered, with a notable peak around 05/01/24. The 'Non-detect' data points are mostly clustered at the lower end of the value scale.

Date	Value (Detect)	Value (Non-detect)
01/01/23		~1.5e-04
02/01/23		~1.5e-04
03/01/23		~1.5e-04
04/01/23		~1.5e-04
05/01/23	~2.5e-04	~1.5e-04
06/01/23		~1.5e-04
07/01/23		~1.5e-04
08/01/23		~1.5e-04
09/01/23		~1.5e-04
10/01/23		~1.5e-04
11/01/23		~1.5e-04
12/01/23		~1.5e-04
01/01/24	~2.0e-04	
02/01/24	~4.5e-04	
03/01/24	~2.8e-04	
04/01/24	~3.0e-04	
05/01/24	~3.2e-04	
06/01/24		~1.5e-04
07/01/24		~1.5e-04
08/01/24	~3.5e-04	

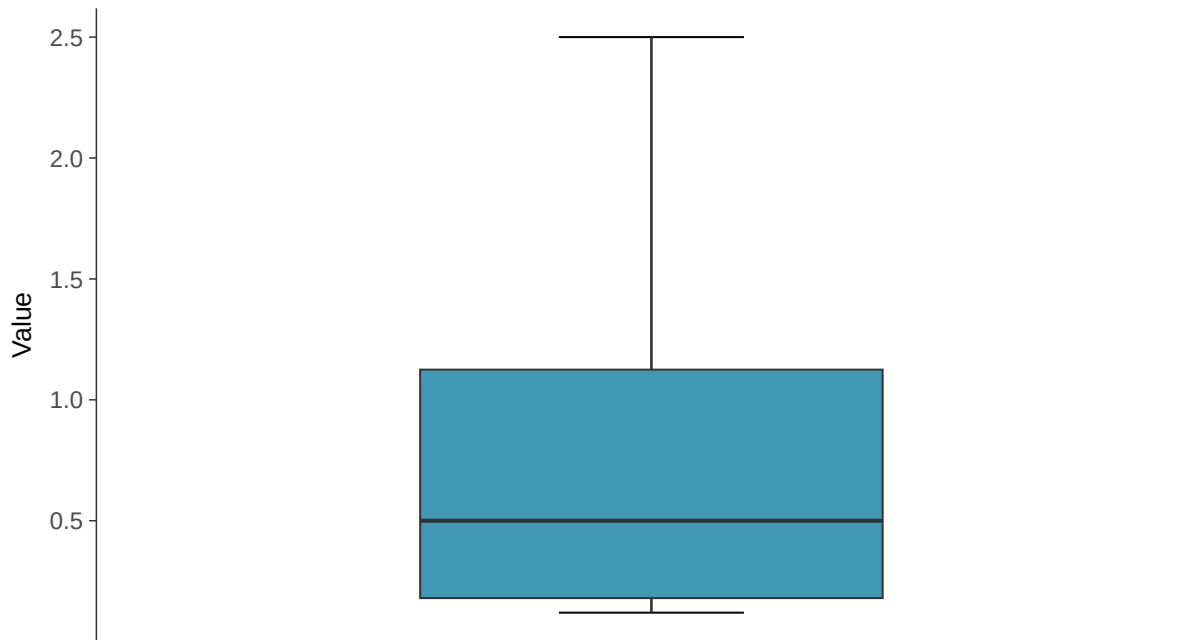
Part 115: Iron, MW-31

ID: 41_1_5_114



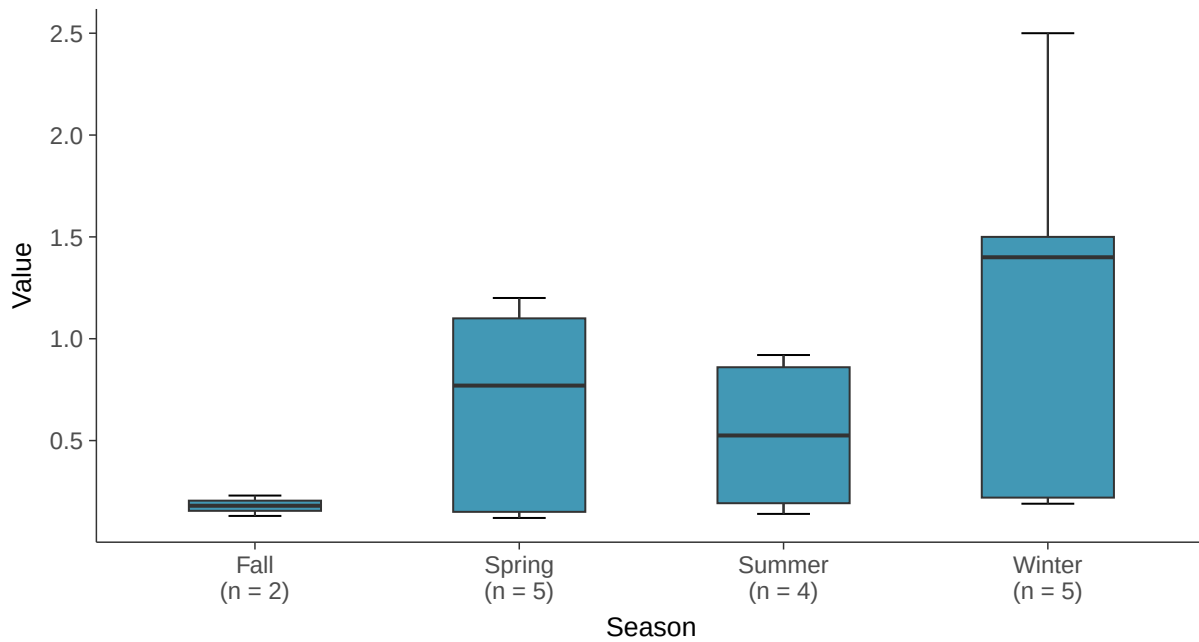
Boxplot

Iron, MW-31 (mg/L)

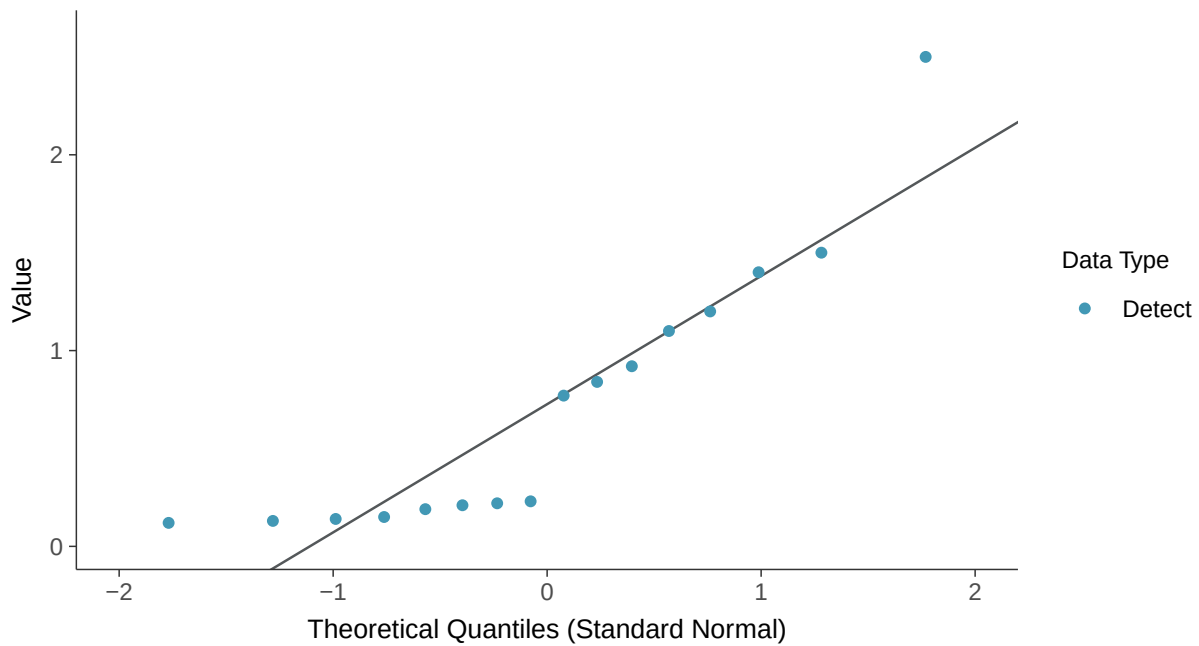


Boxplot by Season

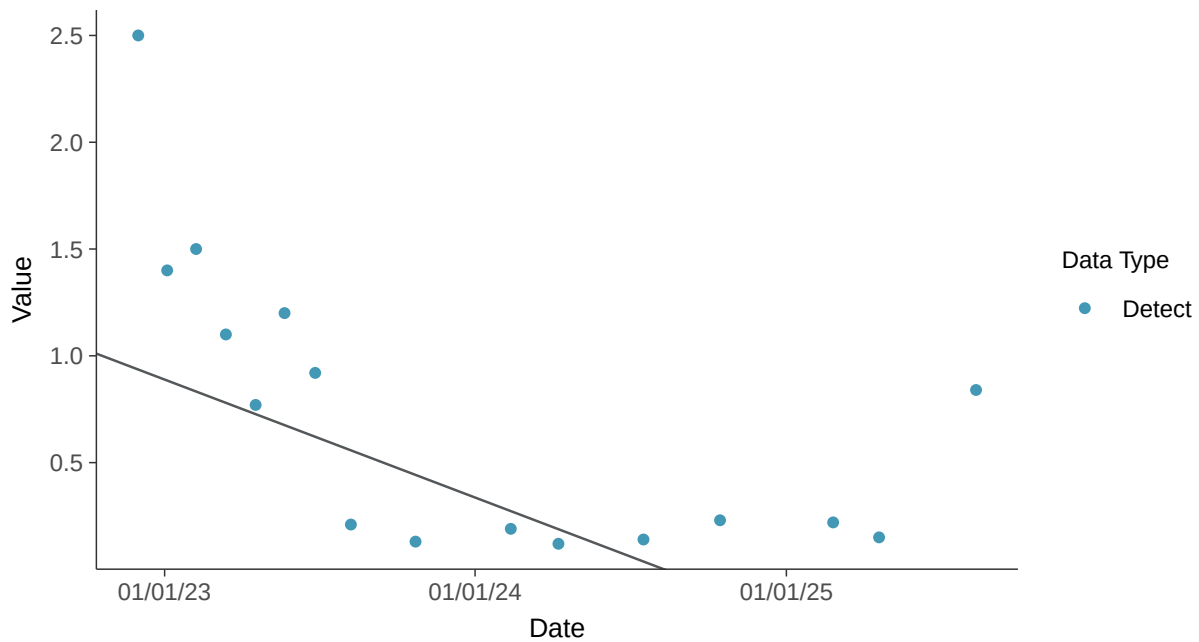
Iron, MW-31 (mg/L)

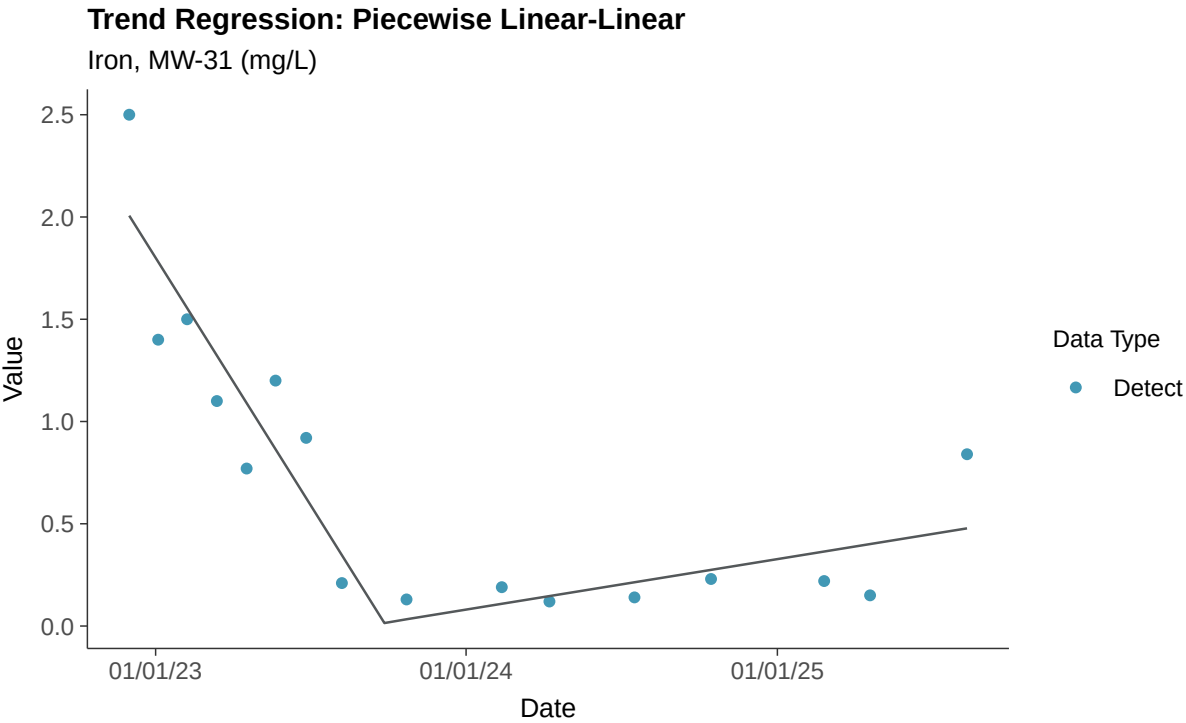


Normal Q-Q plot
Iron, MW-31 (mg/L)



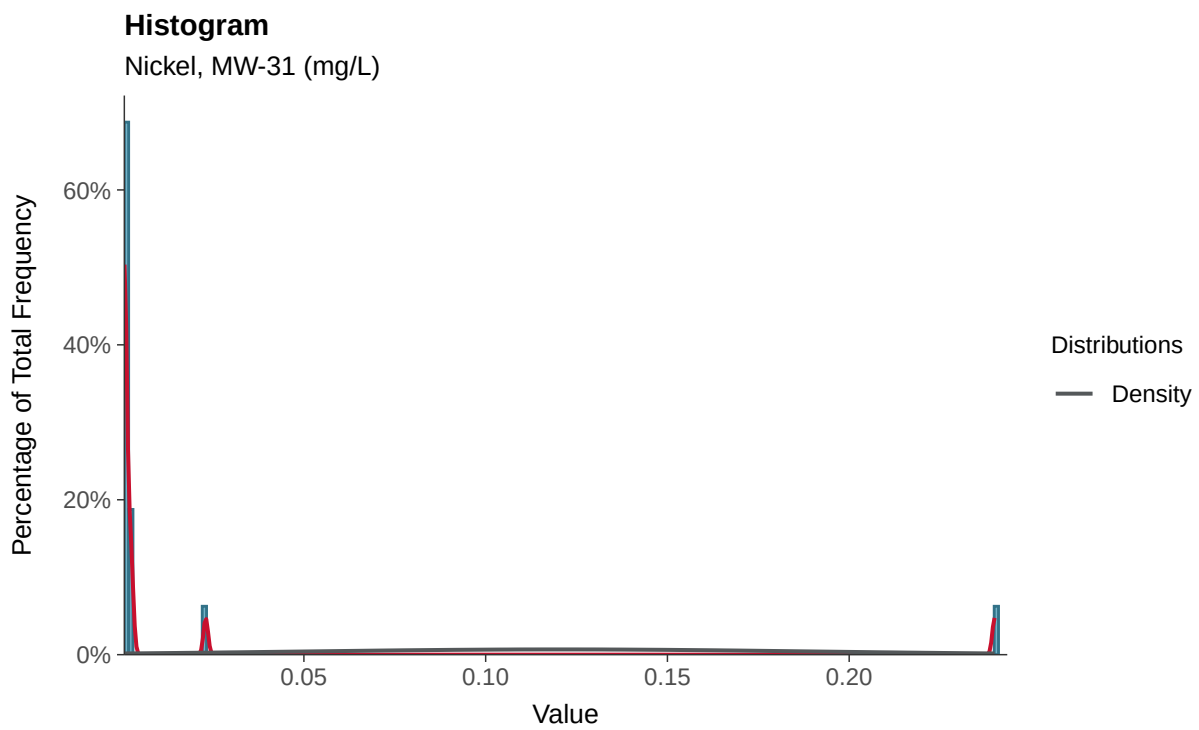
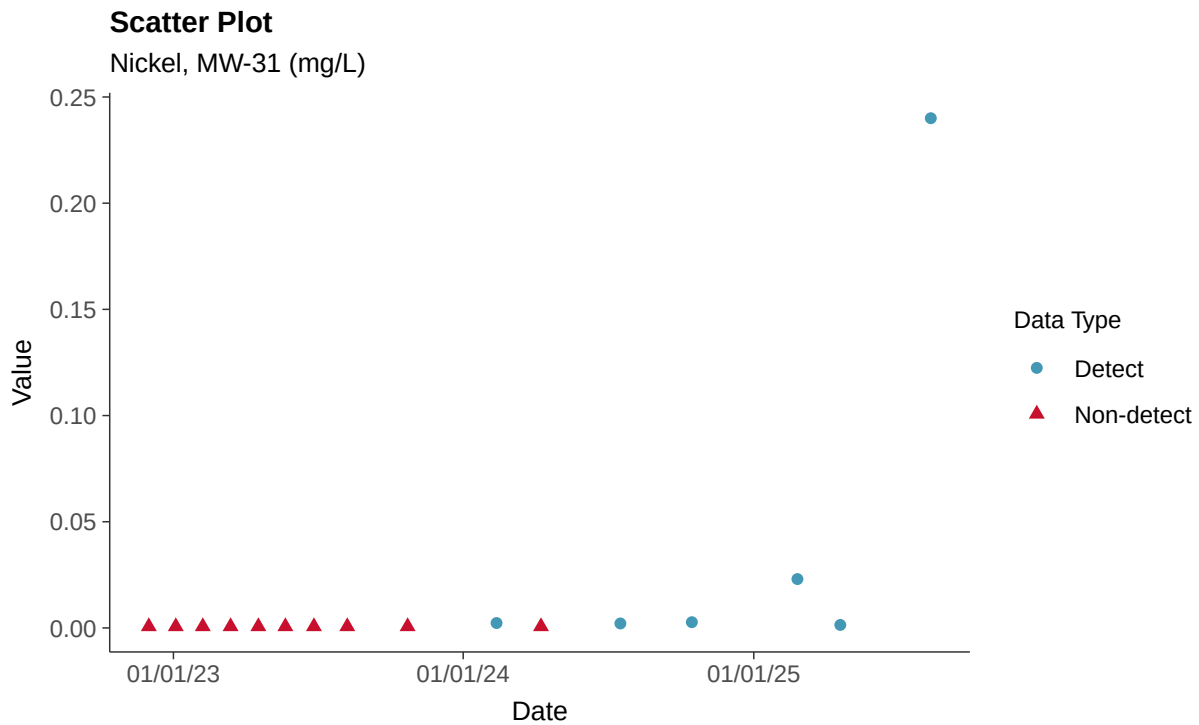
Trend Regression: Mann-Kendall/Theil-Sen Estimate
Iron, MW-31 (mg/L)

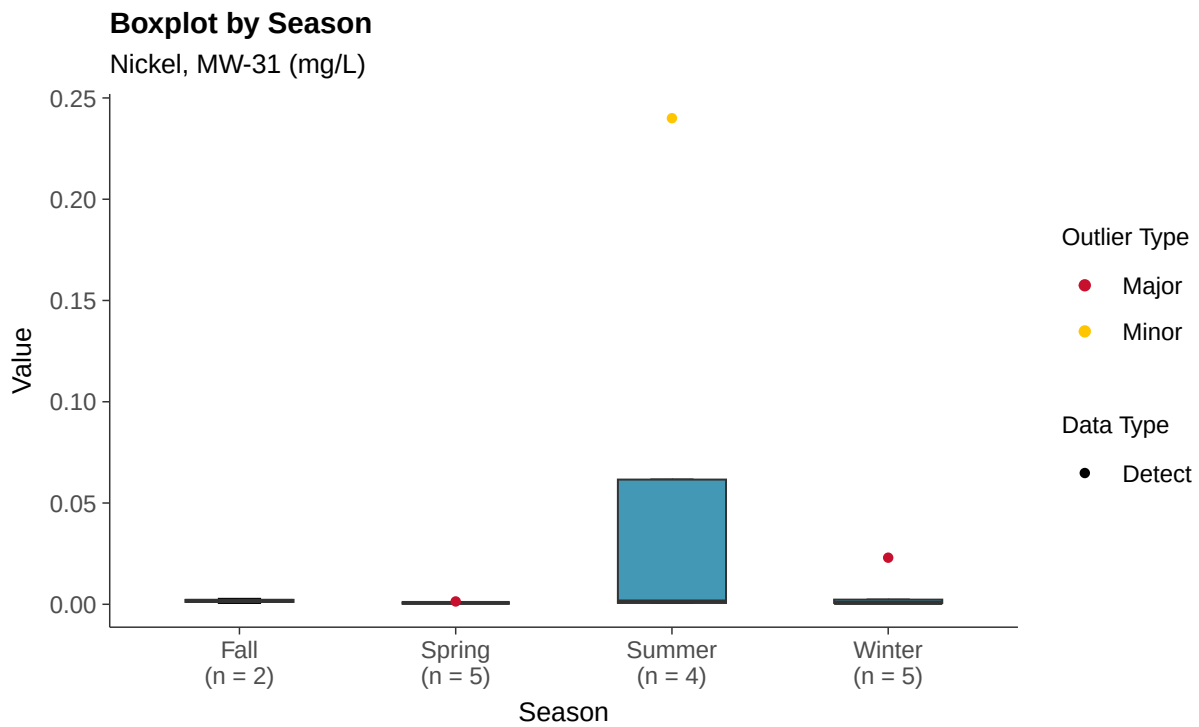
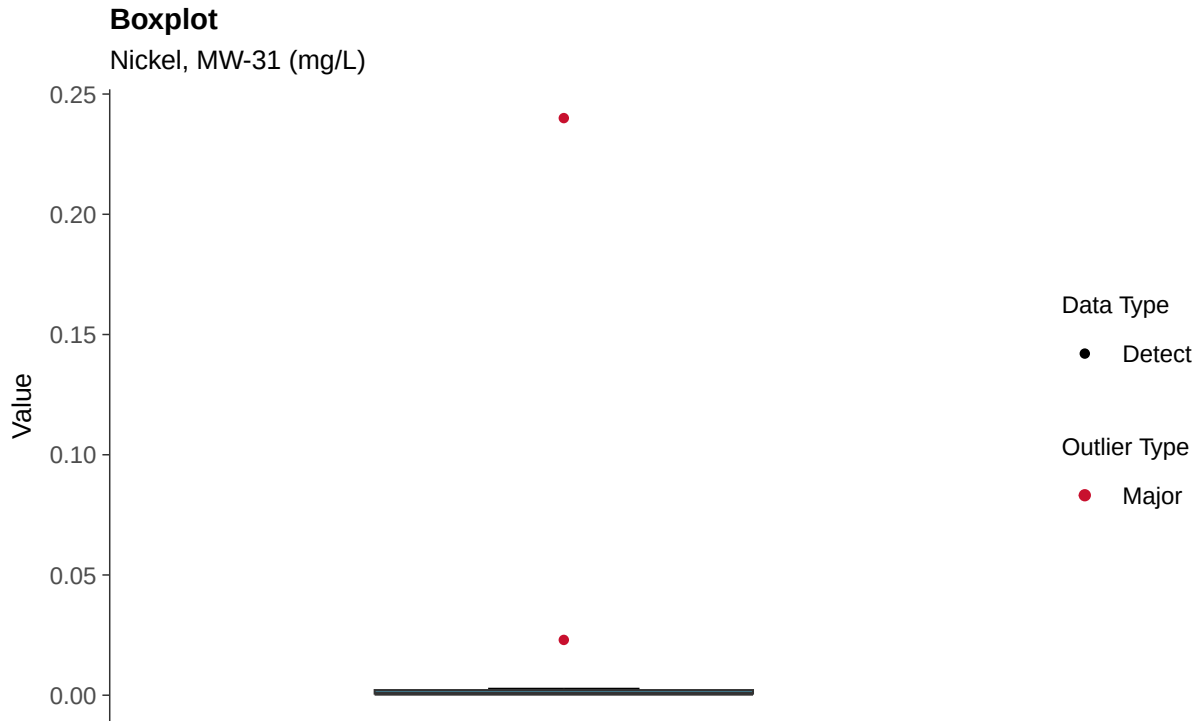




Part 115: Nickel, MW-31

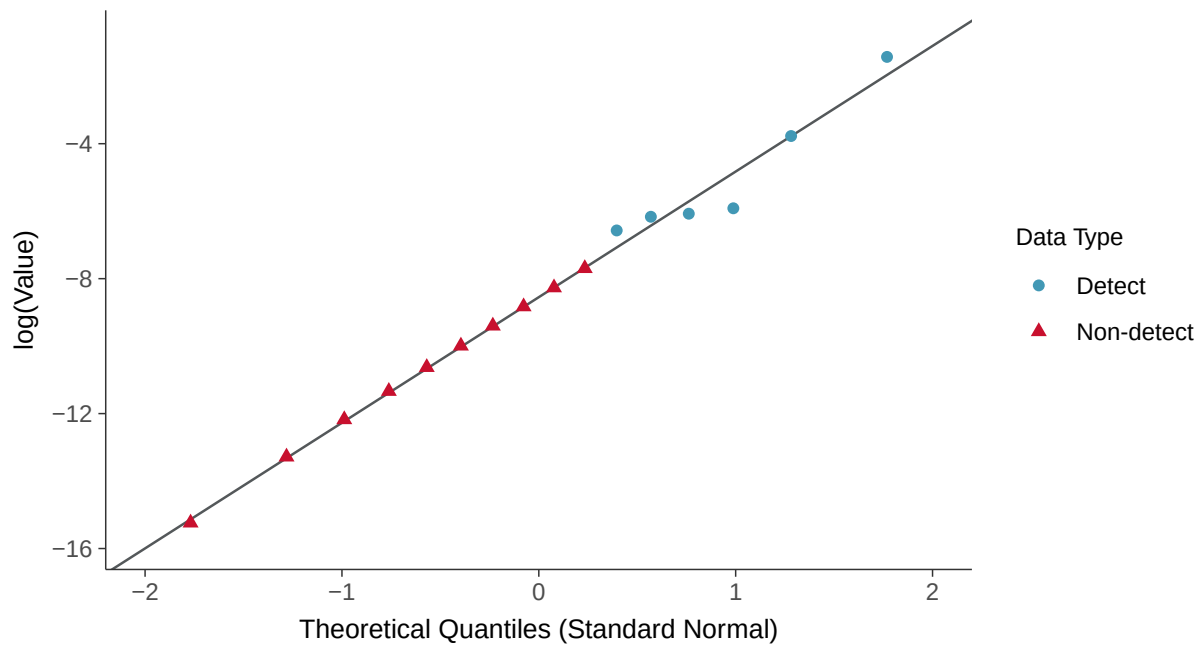
ID: 41_1_5_119





Lognormal Q-Q plot using ROS Imputed Estimates

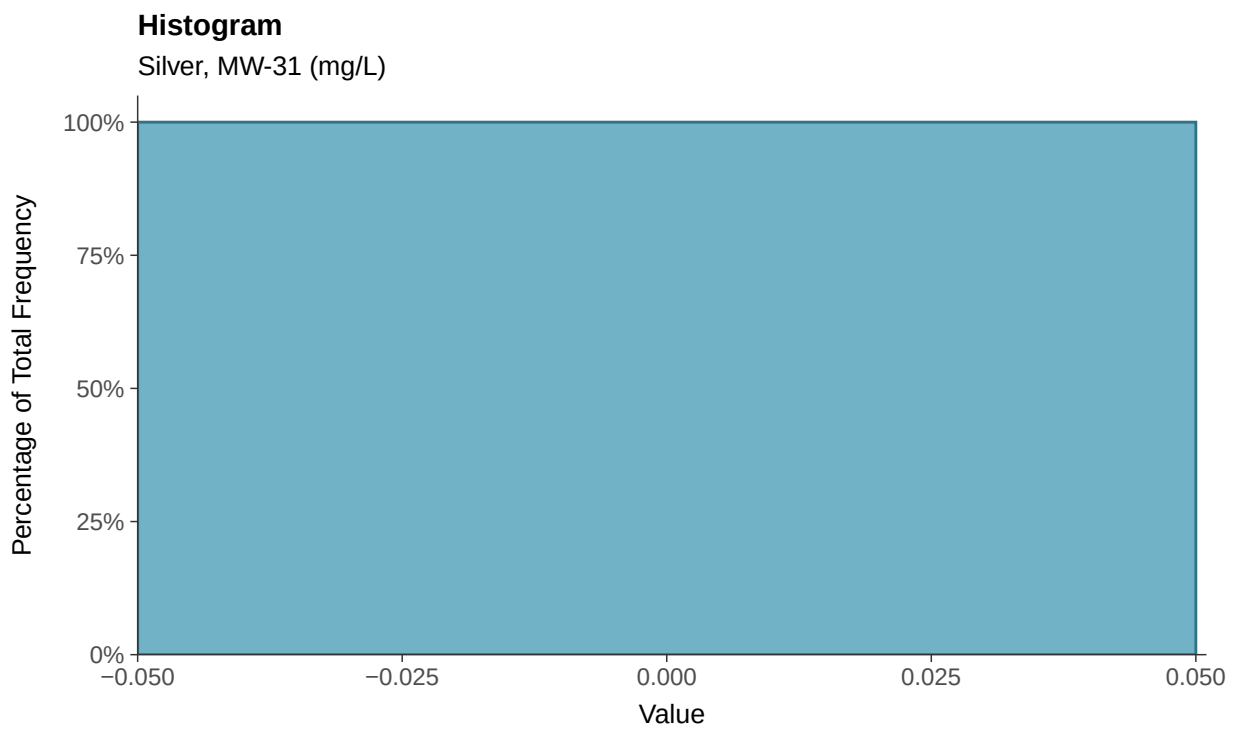
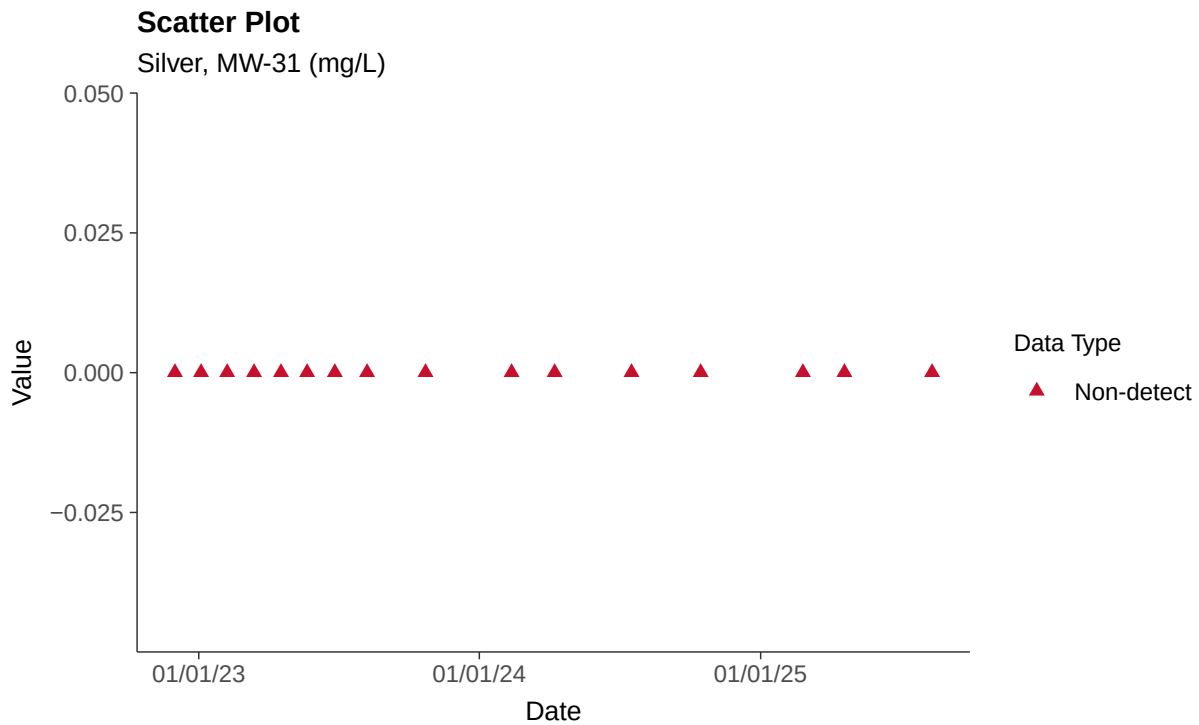
Nickel, MW-31 (mg/L)





Part 115: Silver, MW-31

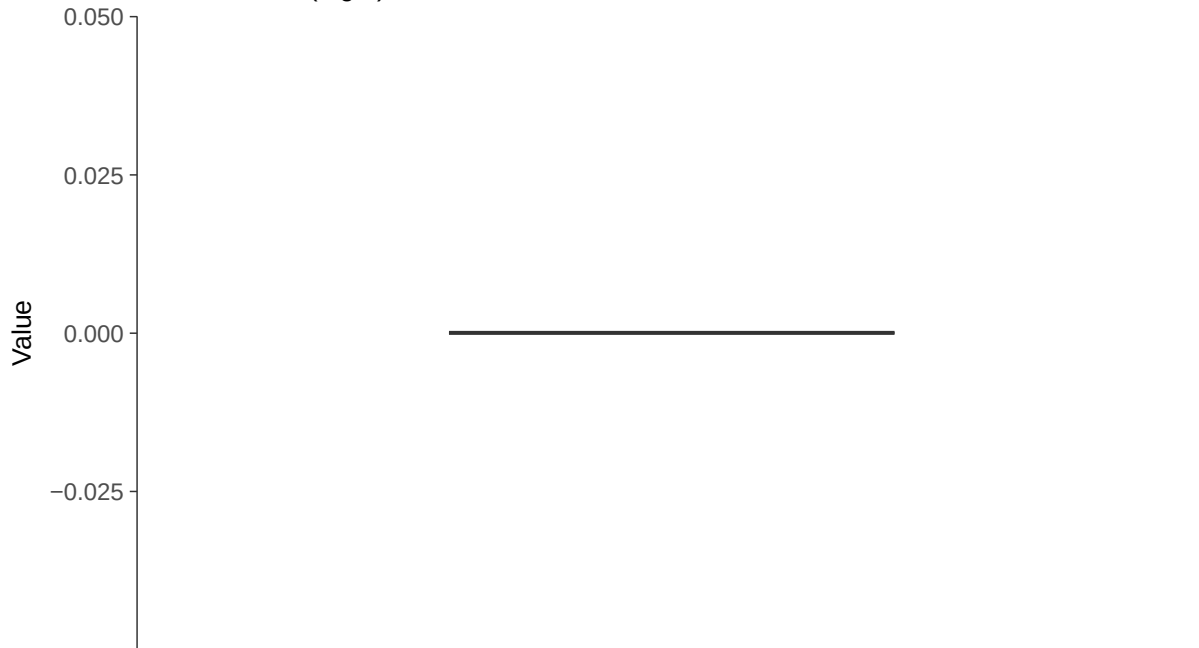
ID: 41_1_5_123





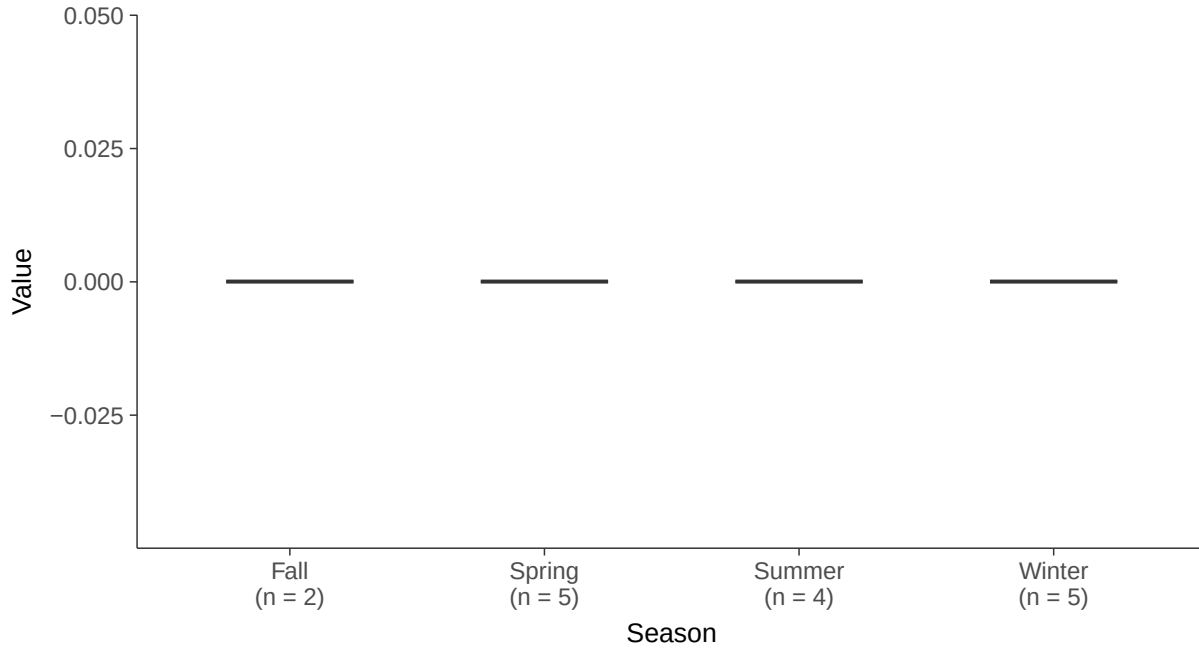
Boxplot

Silver, MW-31 (mg/L)



Boxplot by Season

Silver, MW-31 (mg/L)

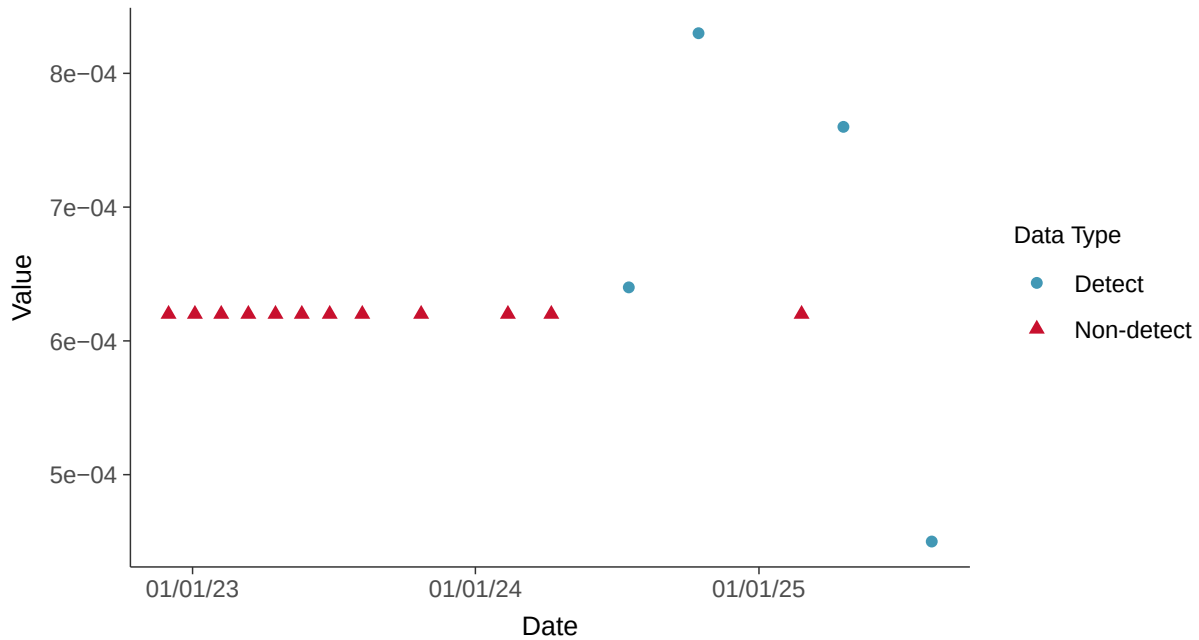


Part 115: Vanadium, MW-31

ID: 41_1_5_128

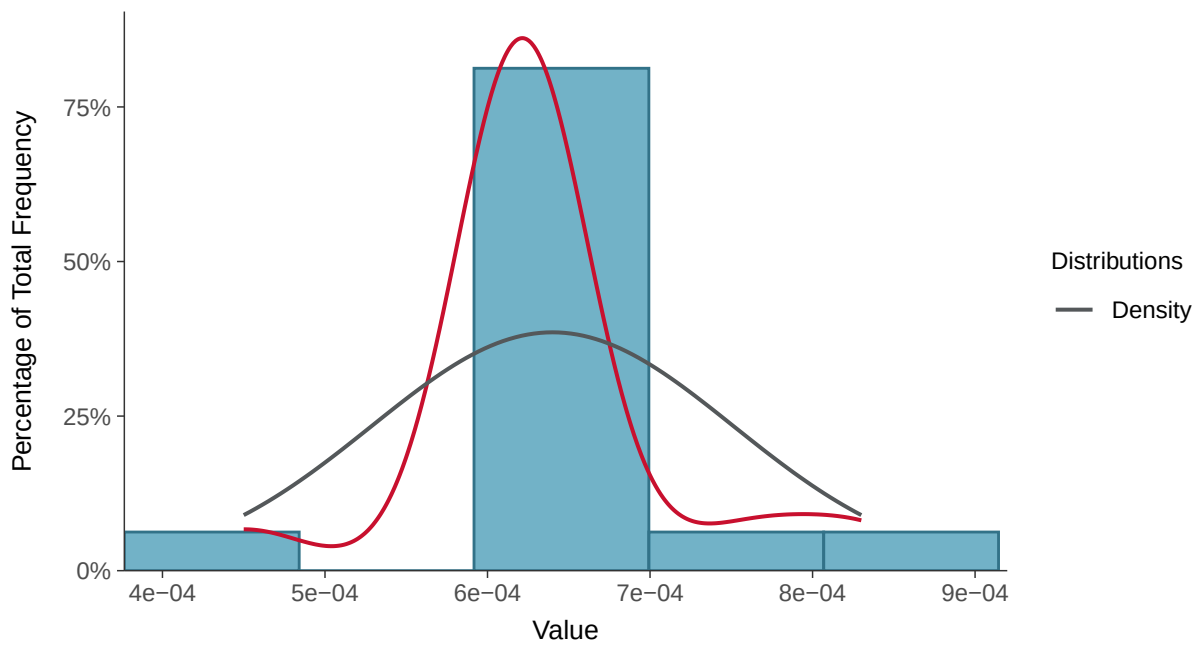
Scatter Plot

Vanadium, MW-31 (mg/L)



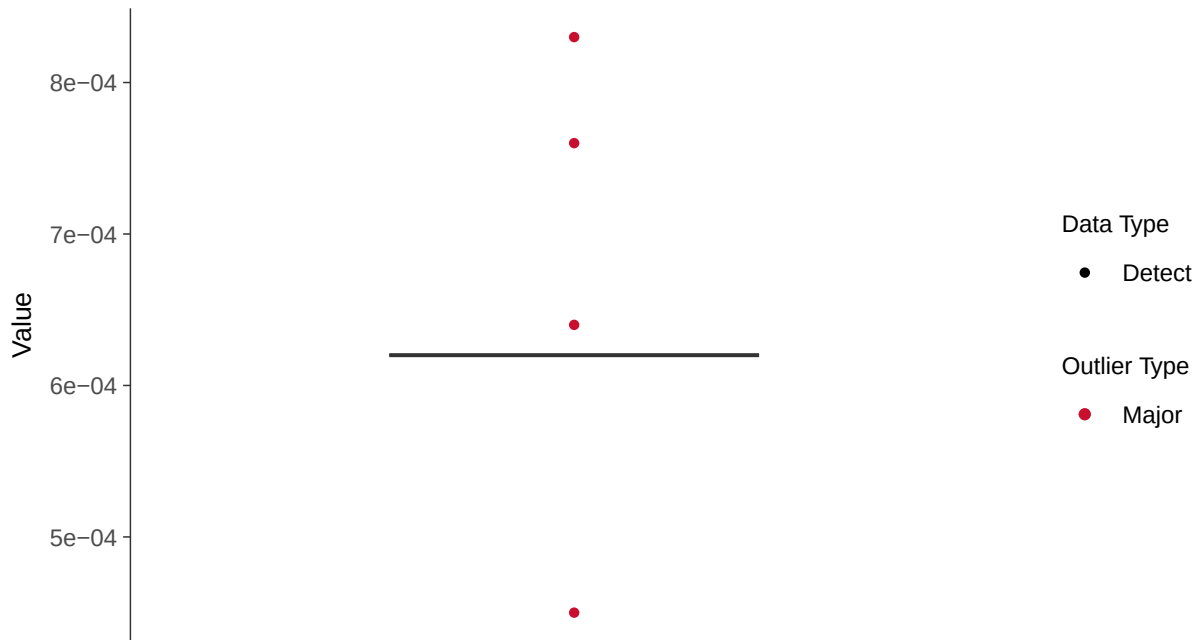
Histogram

Vanadium, MW-31 (mg/L)



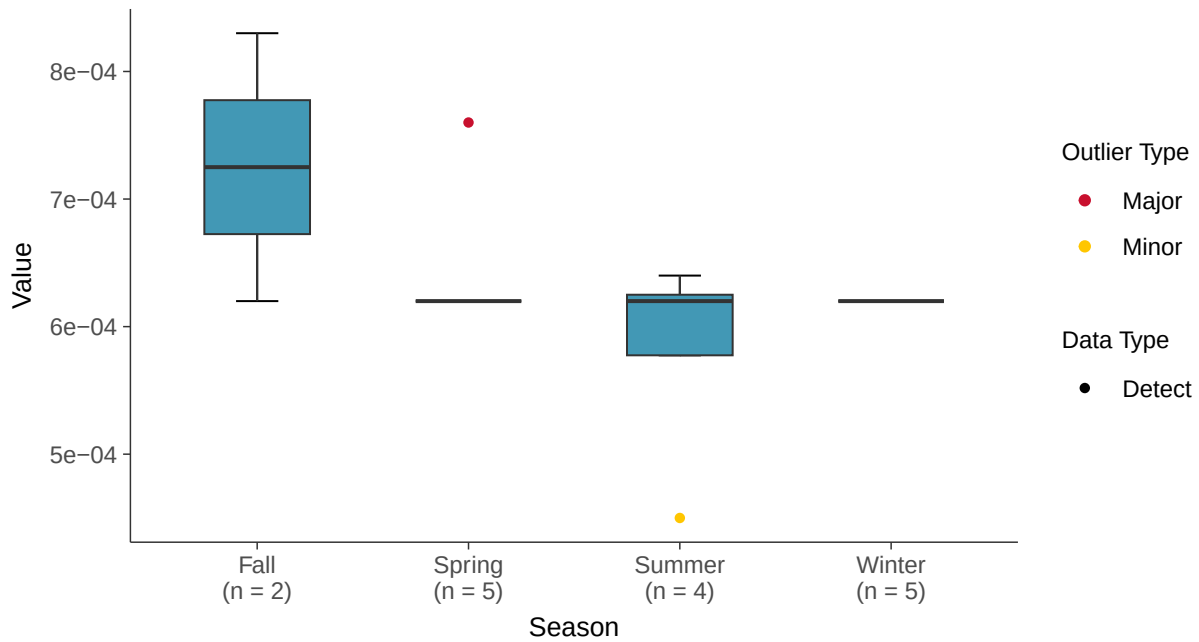
Boxplot

Vanadium, MW-31 (mg/L)

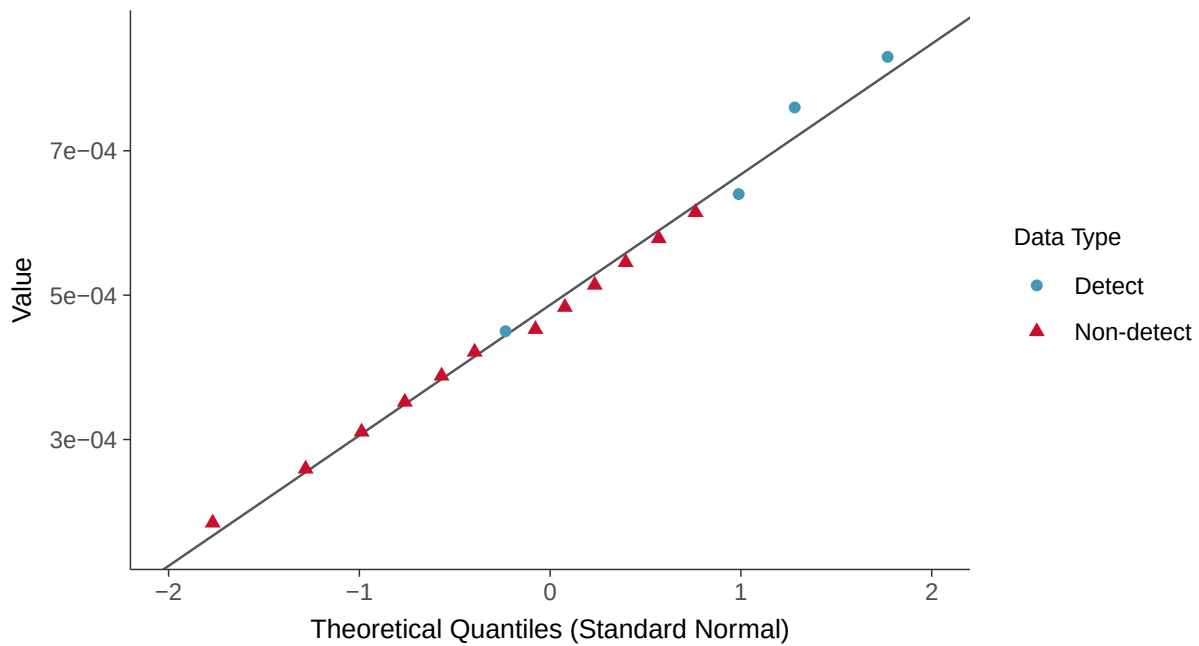


Boxplot by Season

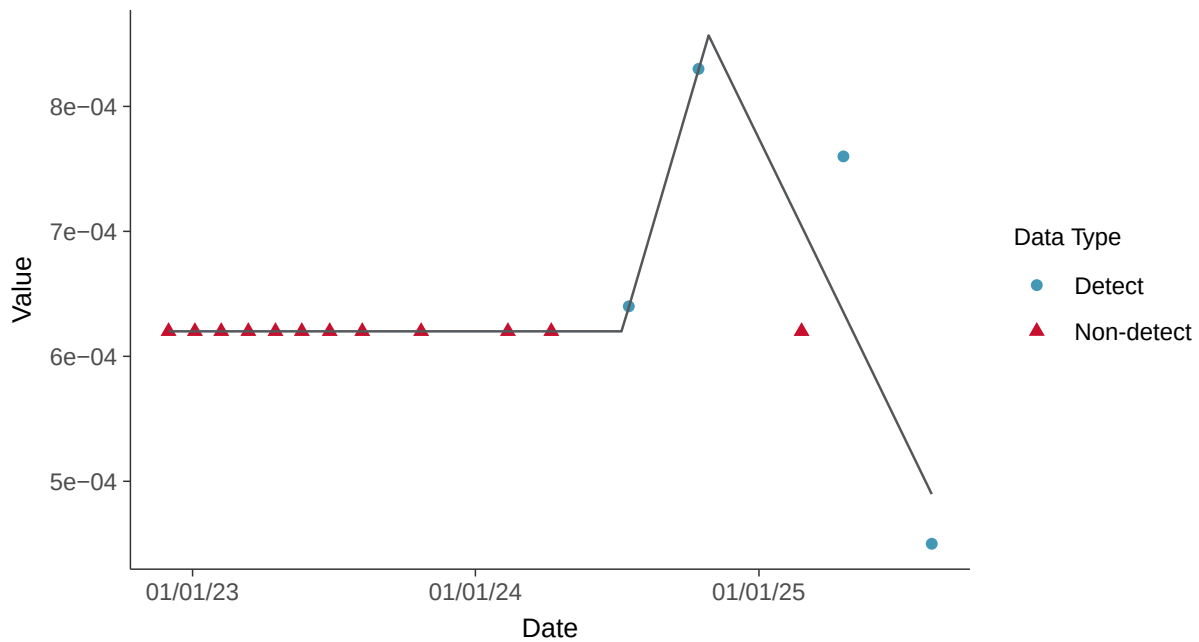
Vanadium, MW-31 (mg/L)



Vanadium, MW-31 (mg/L)



Vanadium, MW-31 (mg/L)

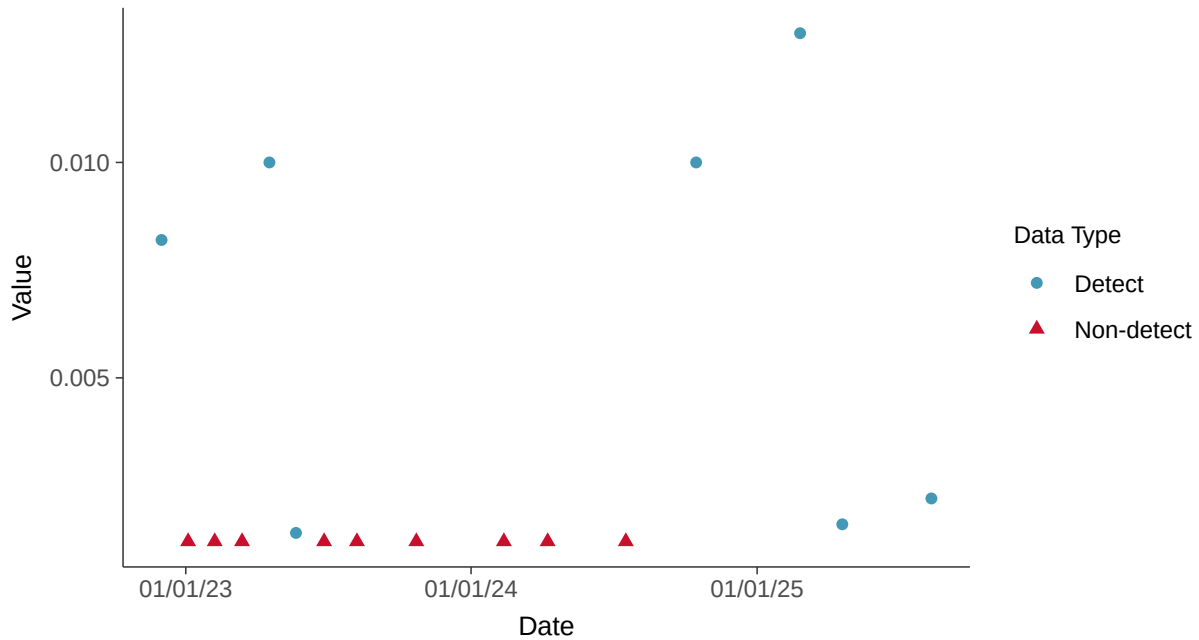


Part 115: Zinc, MW-31

ID: 41_1_5_129

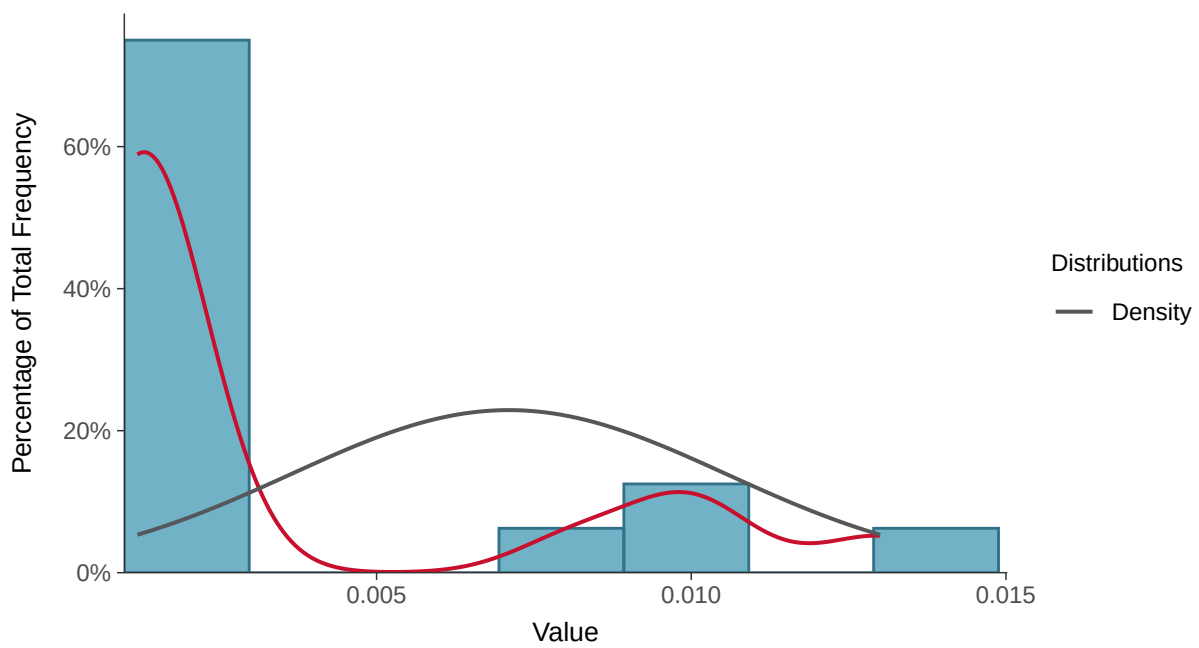
Scatter Plot

Zinc, MW-31 (mg/L)



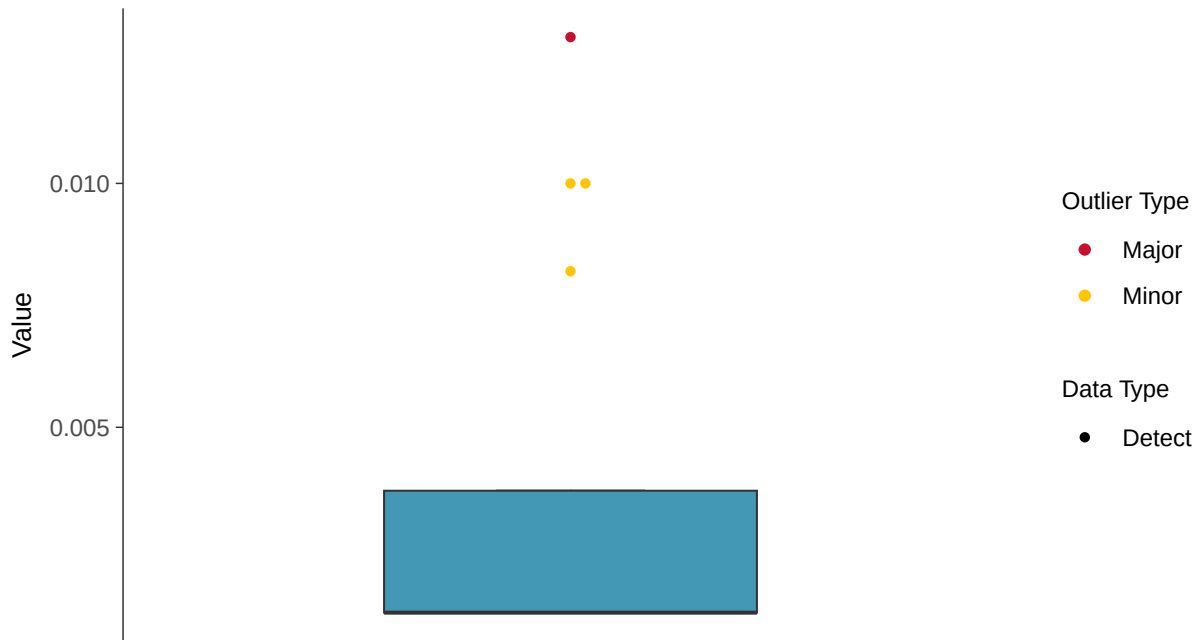
Histogram

Zinc, MW-31 (mg/L)



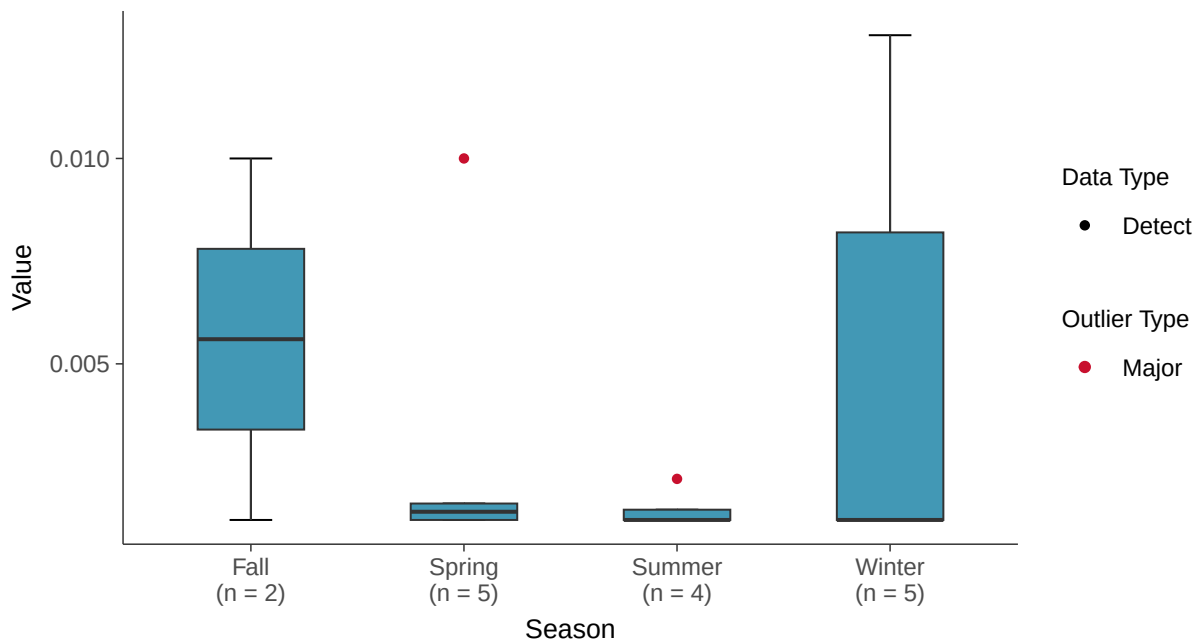
Boxplot

Zinc, MW-31 (mg/L)



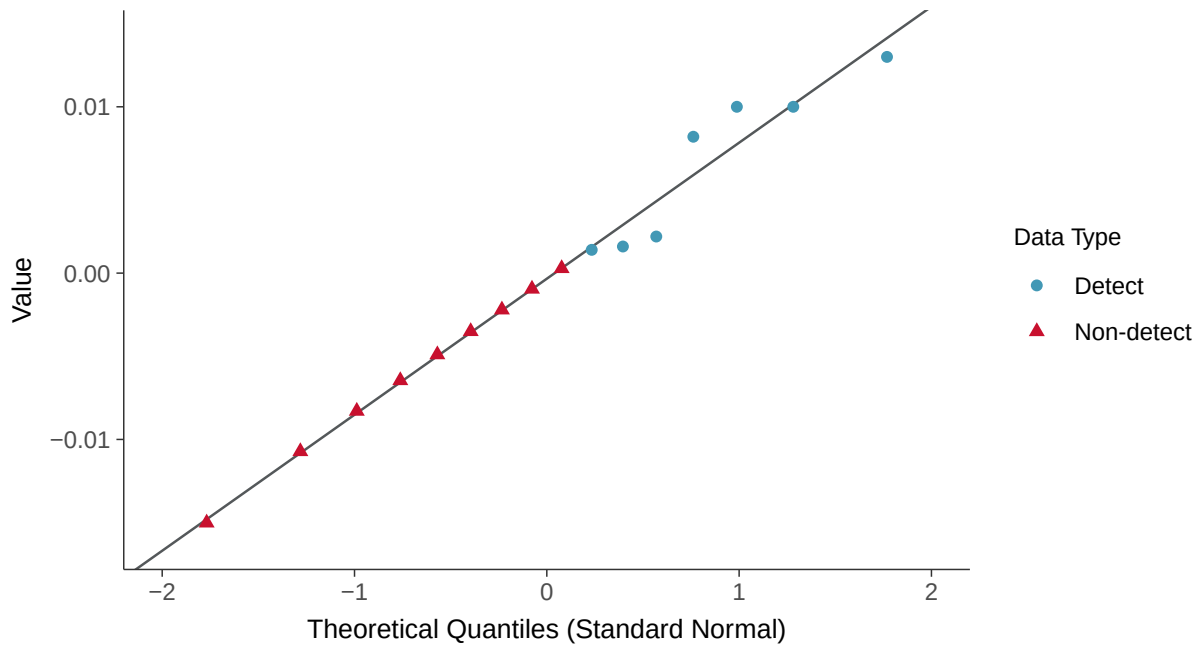
Boxplot by Season

Zinc, MW-31 (mg/L)



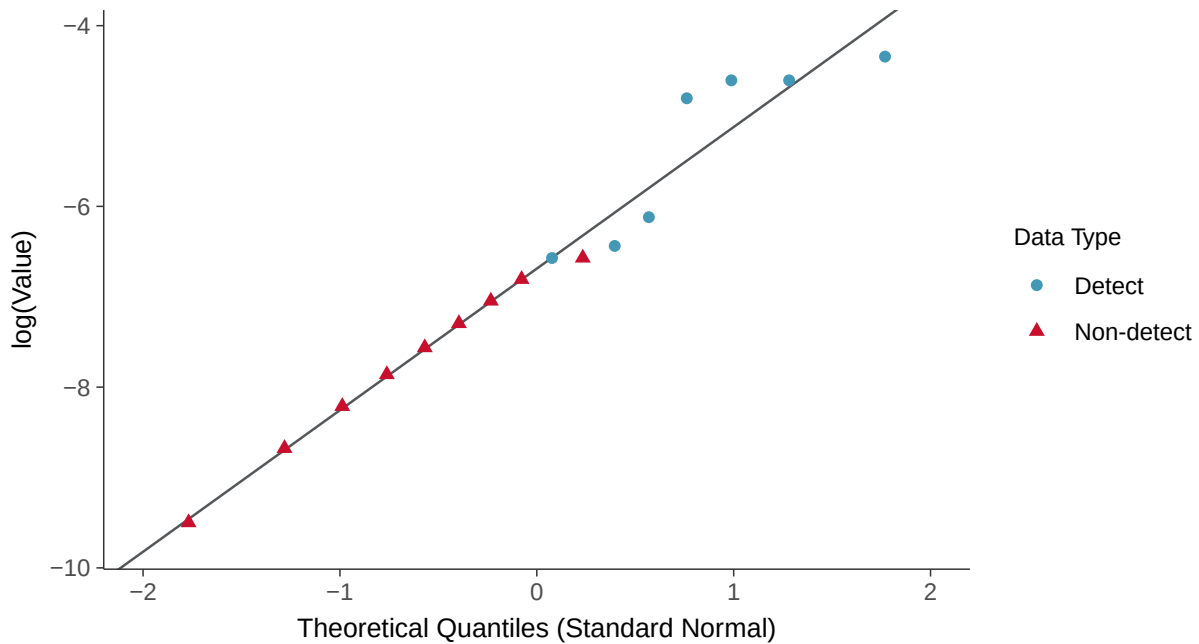
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-31 (mg/L)



Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-31 (mg/L)



Zinc, MW-31 (mg/L)



Zinc, MW-31 (mg/L)

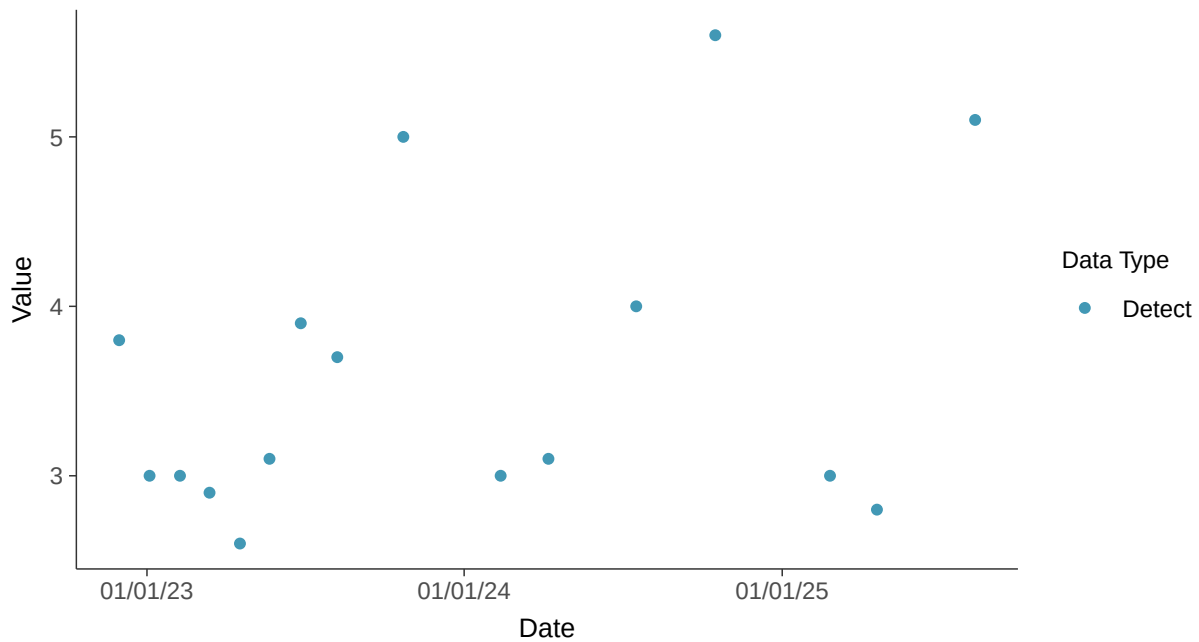


Appendix III: Boron, MW-32

ID: 42_1_3_105

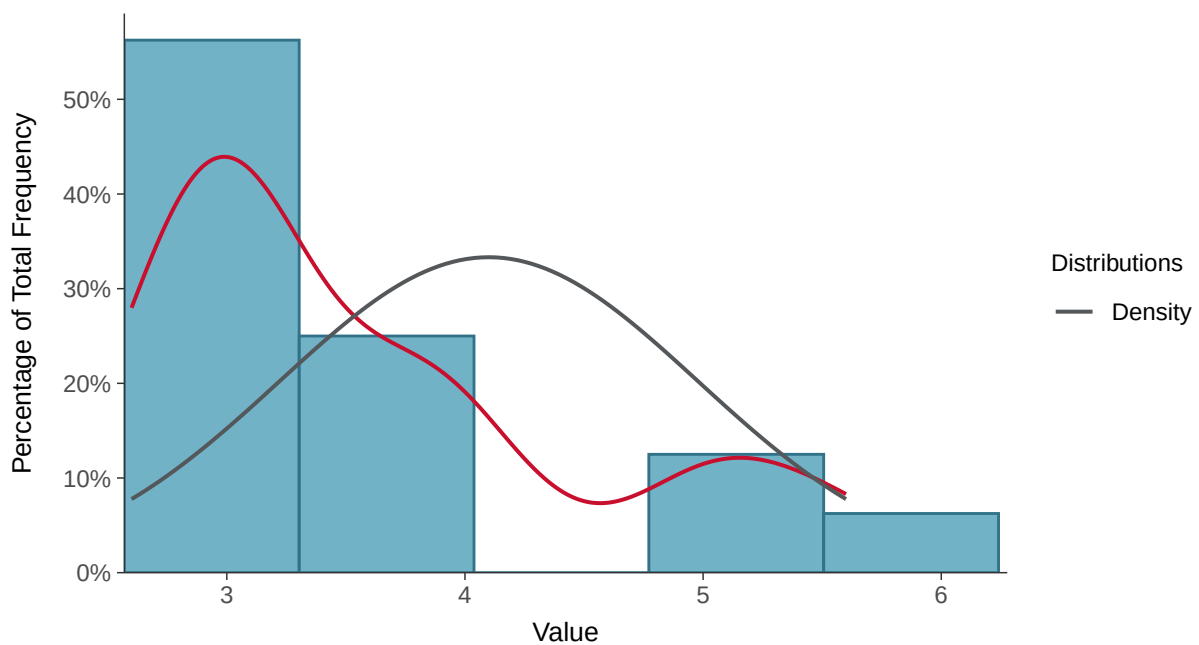
Scatter Plot

Boron, MW-32 (mg/L)



Histogram

Boron, MW-32 (mg/L)



Boron, MW-32 (mg/L)

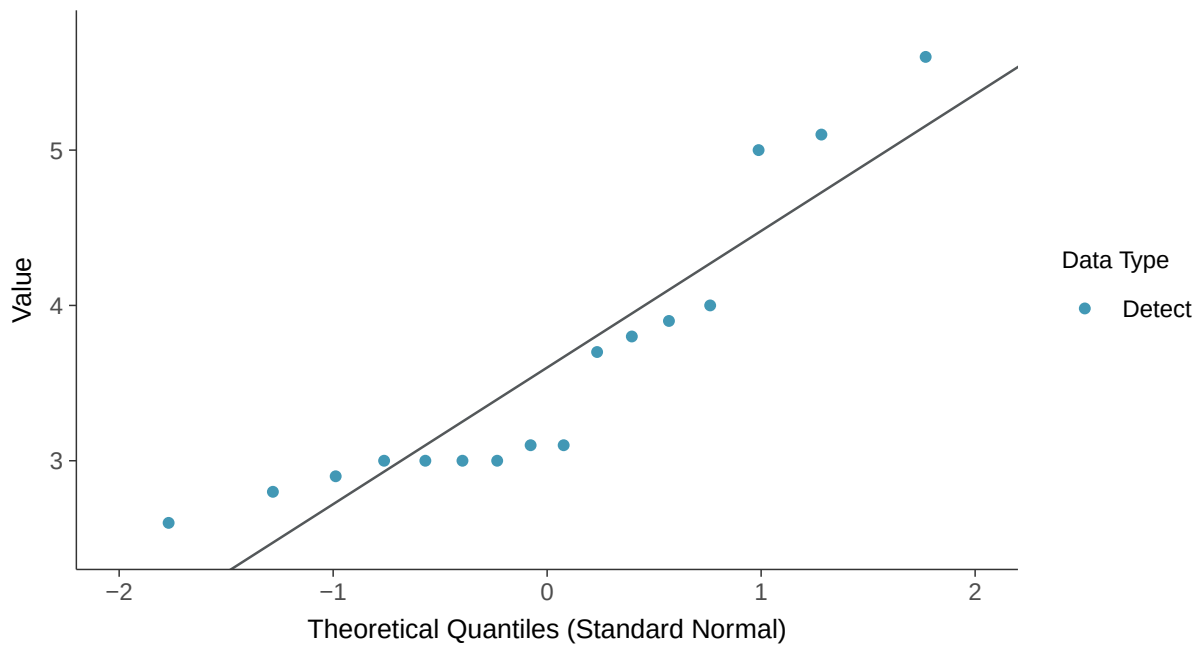


Boron, MW-32 (mg/L)



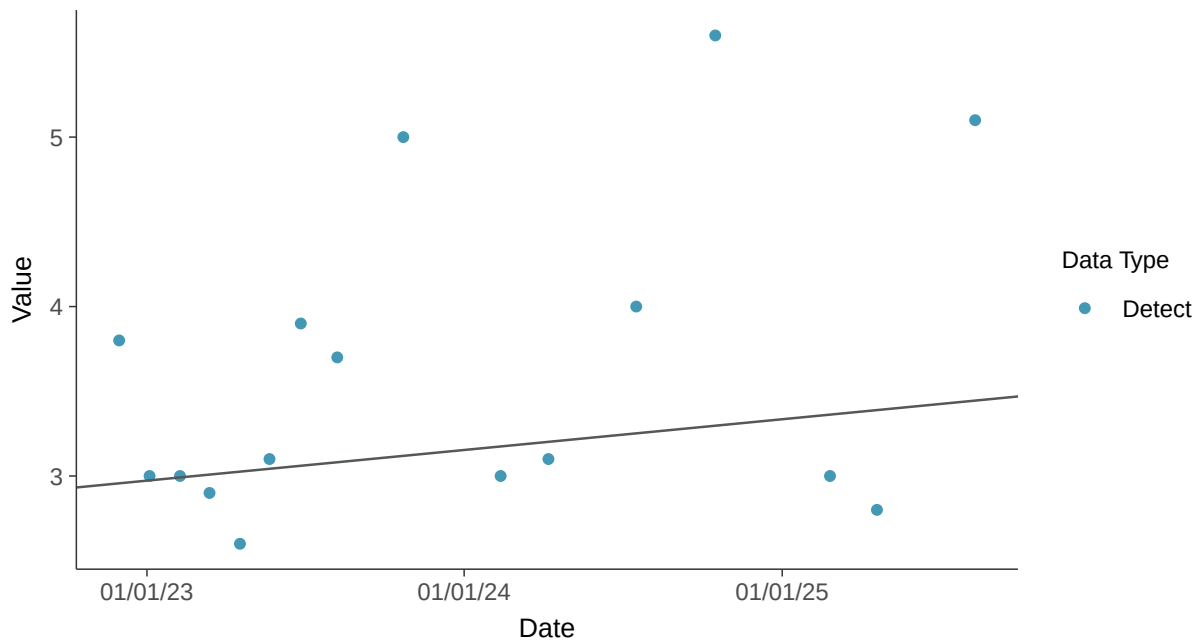
Normal Q-Q plot

Boron, MW-32 (mg/L)



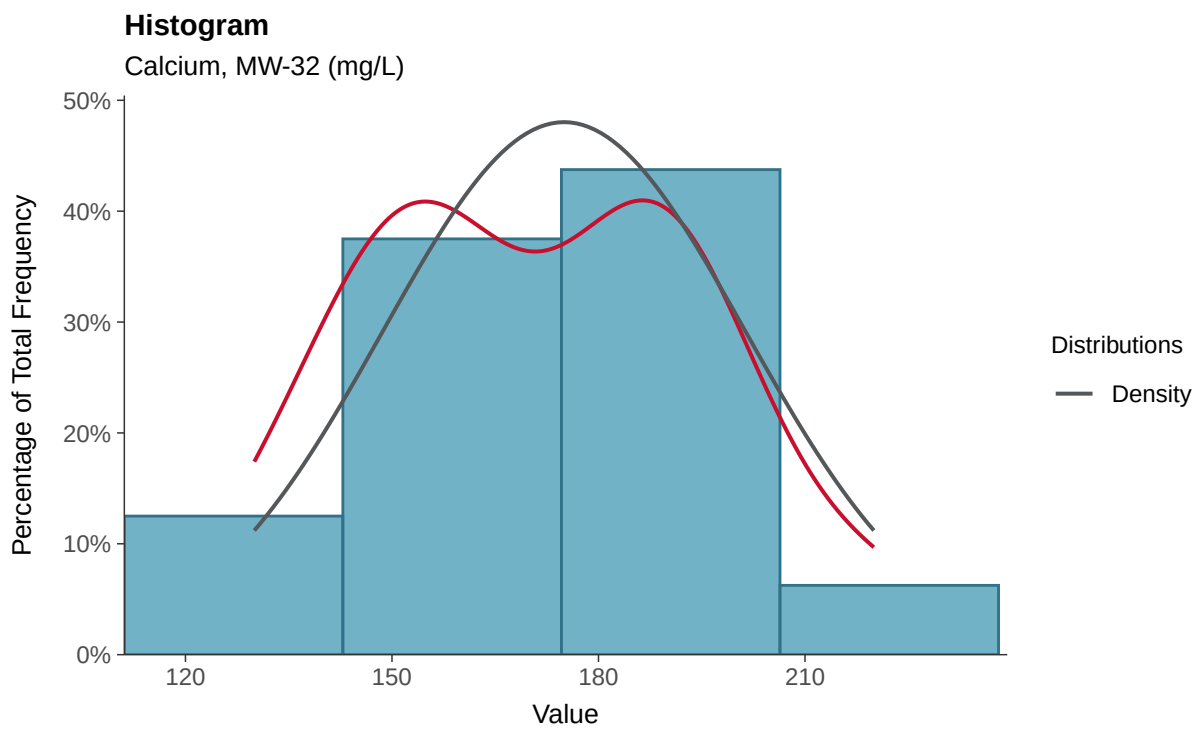
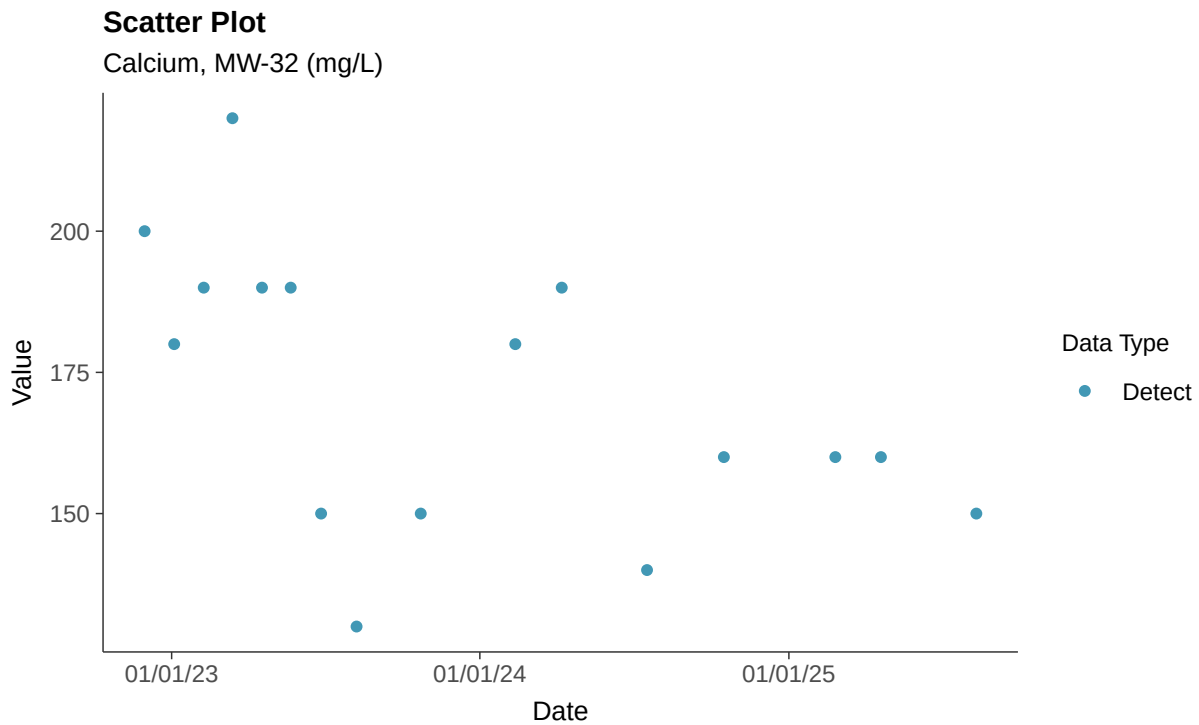
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Boron, MW-32 (mg/L)



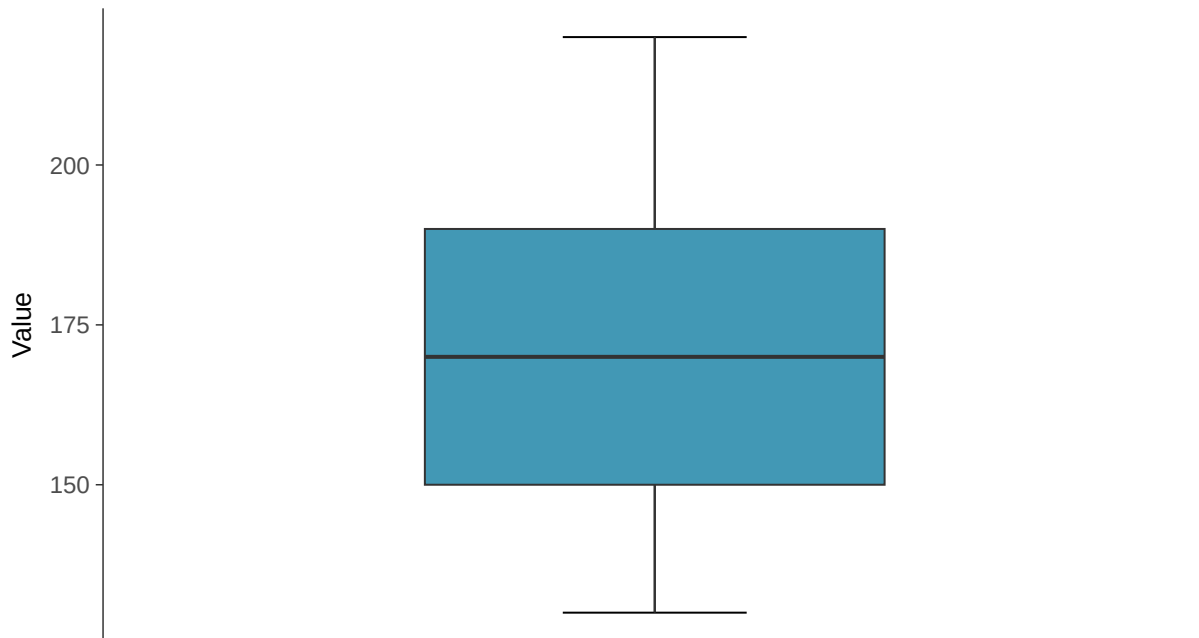
Appendix III: Calcium, MW-32

ID: 42_1_3_107



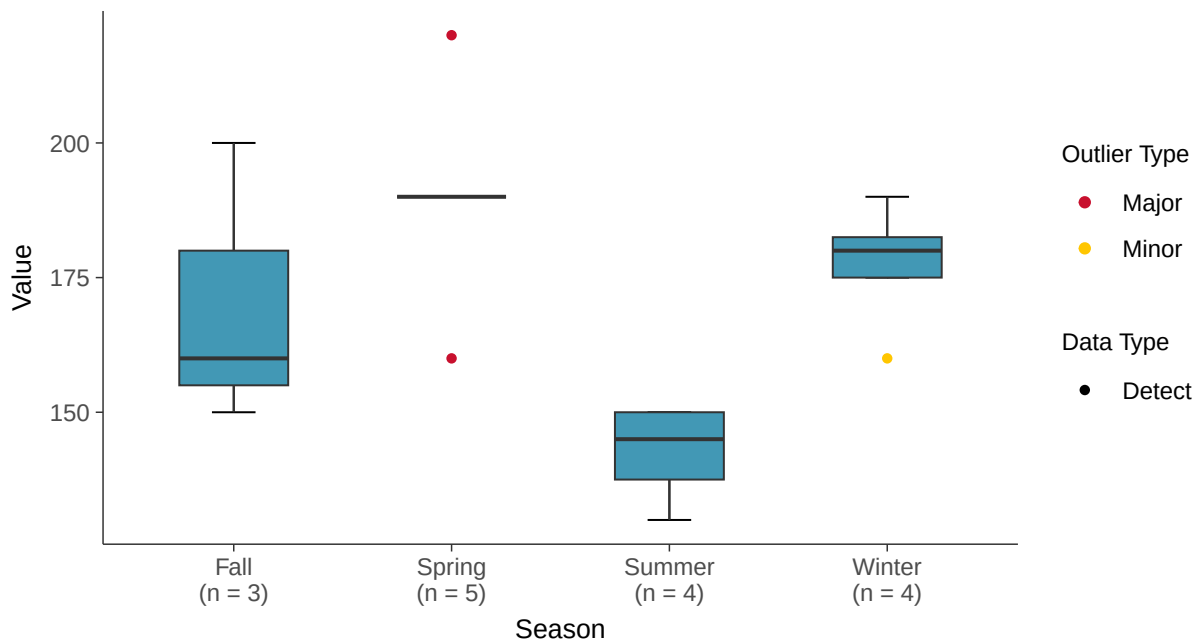
Boxplot

Calcium, MW-32 (mg/L)



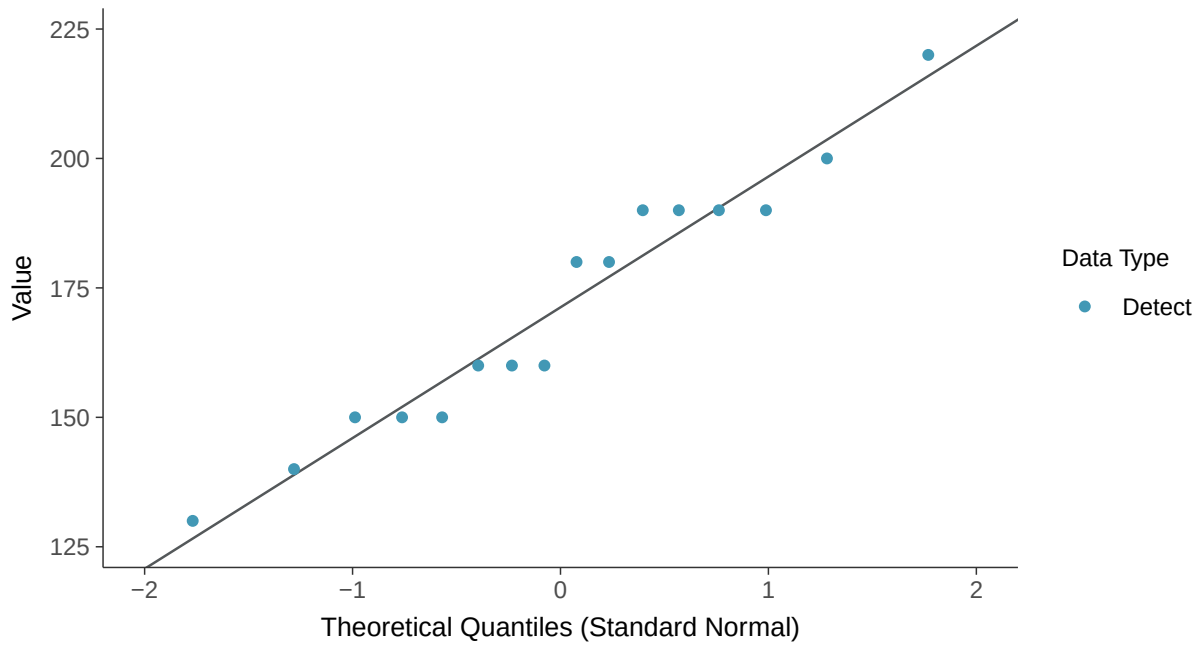
Boxplot by Season

Calcium, MW-32 (mg/L)



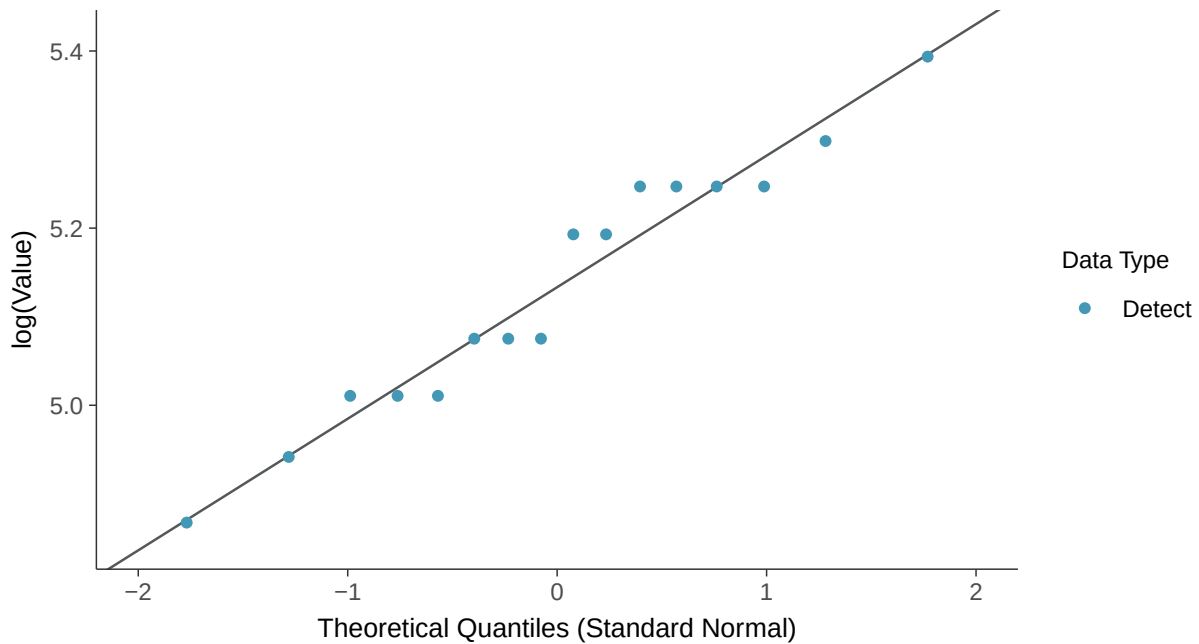
Normal Q-Q plot

Calcium, MW-32 (mg/L)



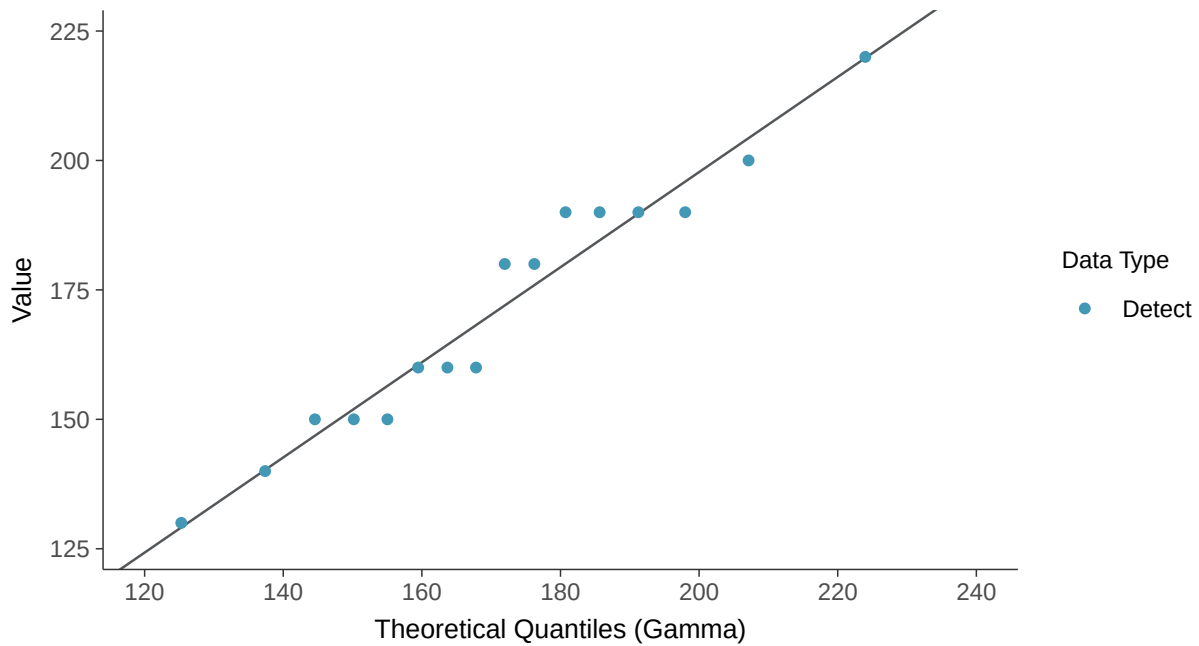
Lognormal Q-Q plot

Calcium, MW-32 (mg/L)



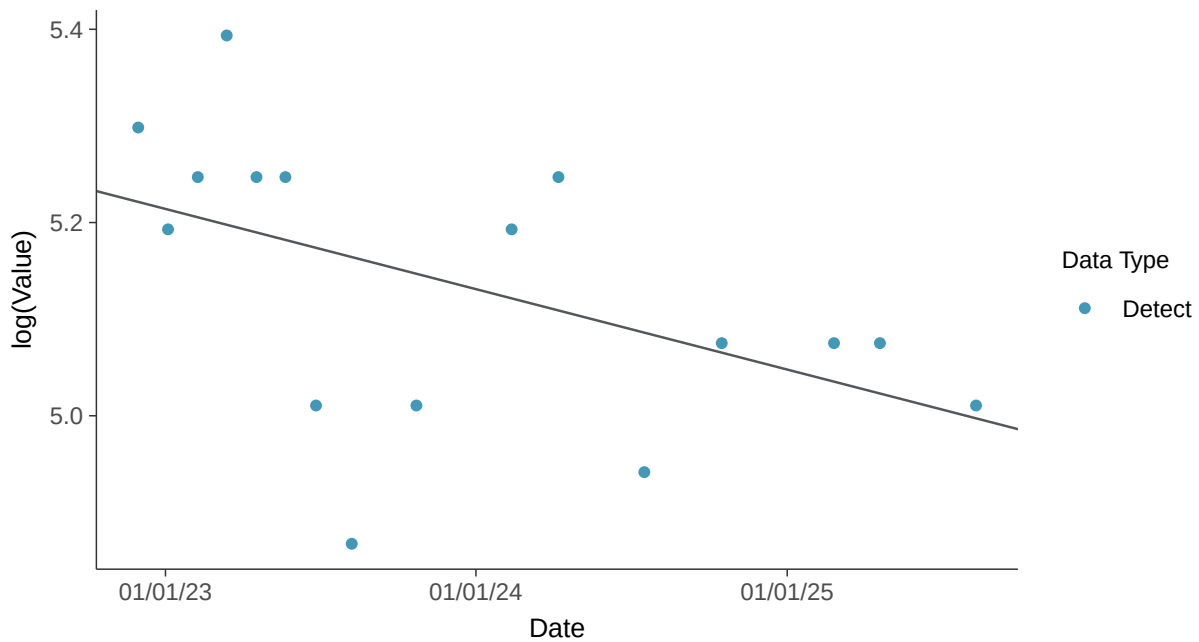
Gamma Q-Q plot

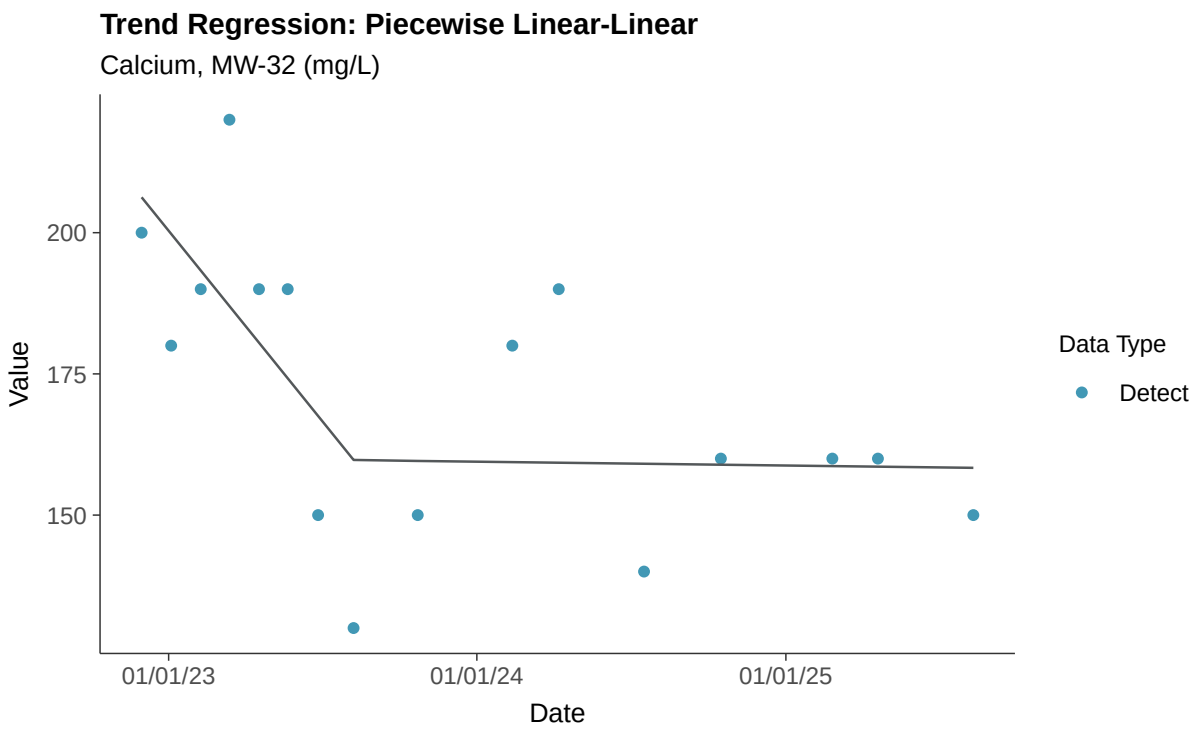
Calcium, MW-32 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-32 (mg/L)



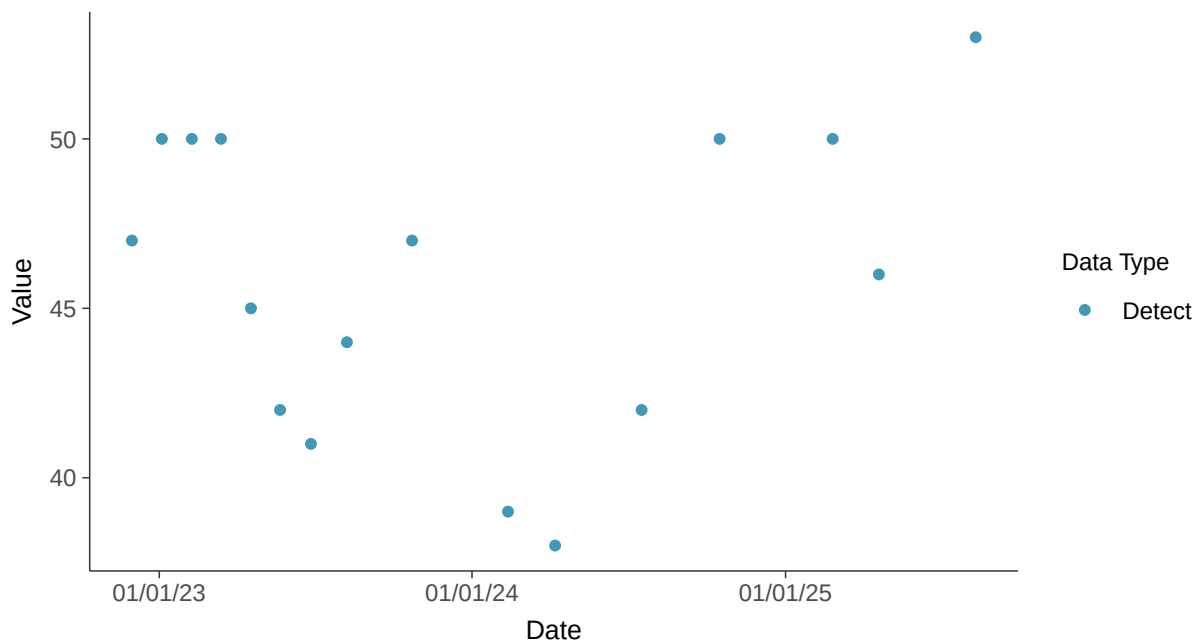


Appendix III: Chloride (as Cl), MW-32

ID: 42_1_3_108

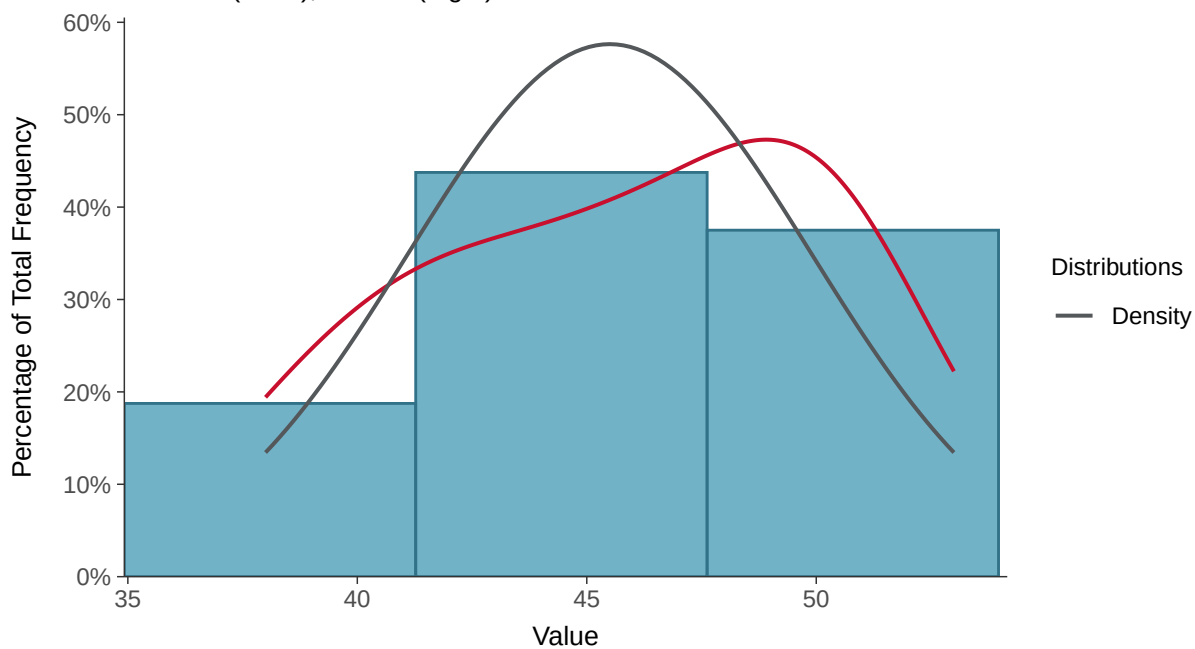
Scatter Plot

Chloride (as Cl), MW-32 (mg/L)



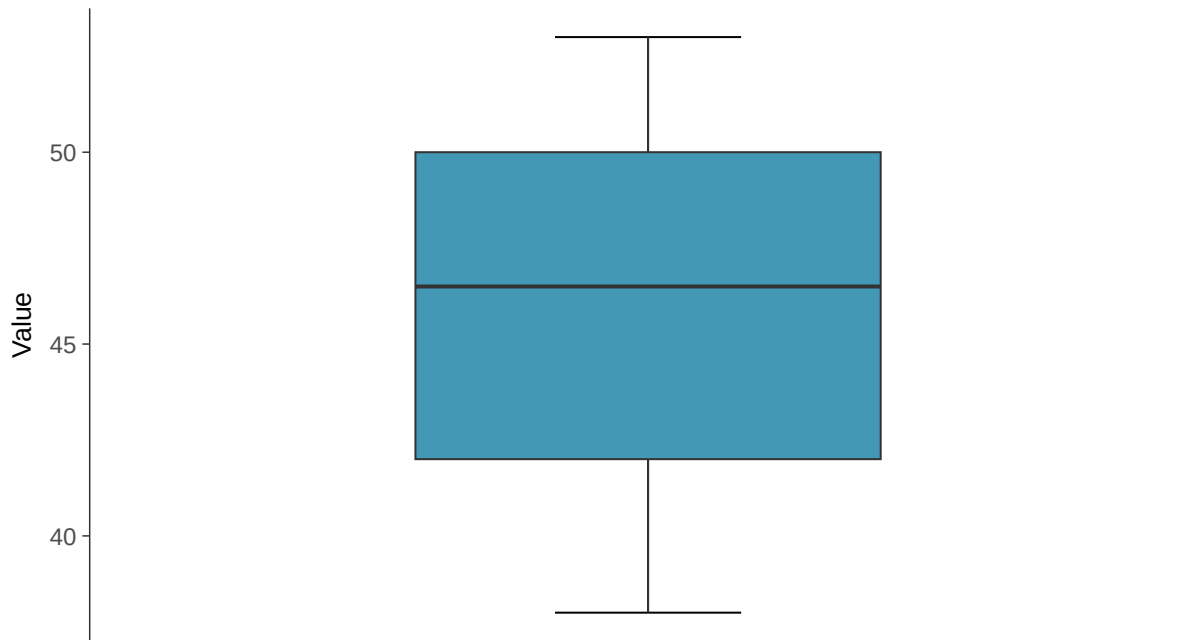
Histogram

Chloride (as Cl), MW-32 (mg/L)



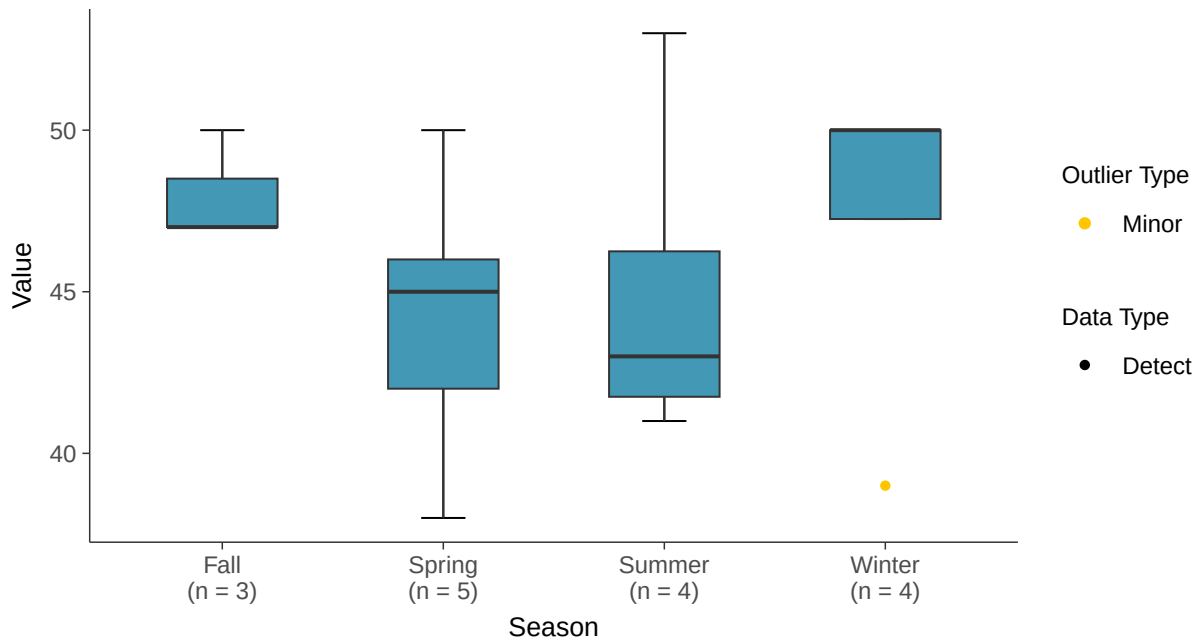
Boxplot

Chloride (as Cl), MW-32 (mg/L)



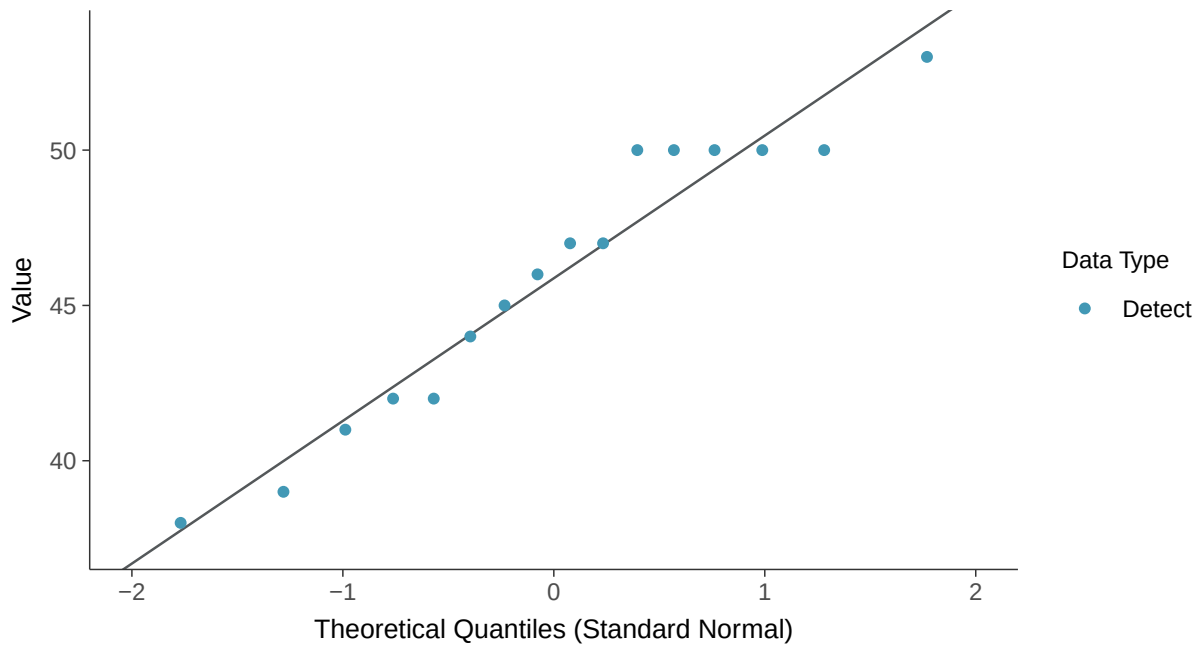
Boxplot by Season

Chloride (as Cl), MW-32 (mg/L)



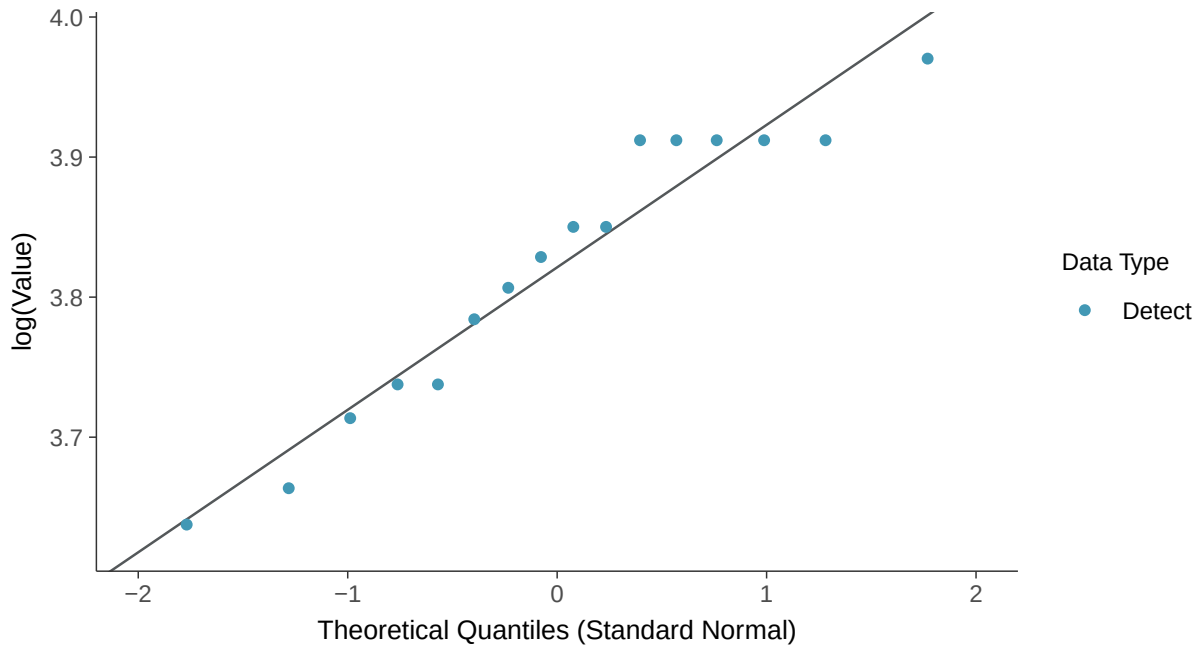
Normal Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



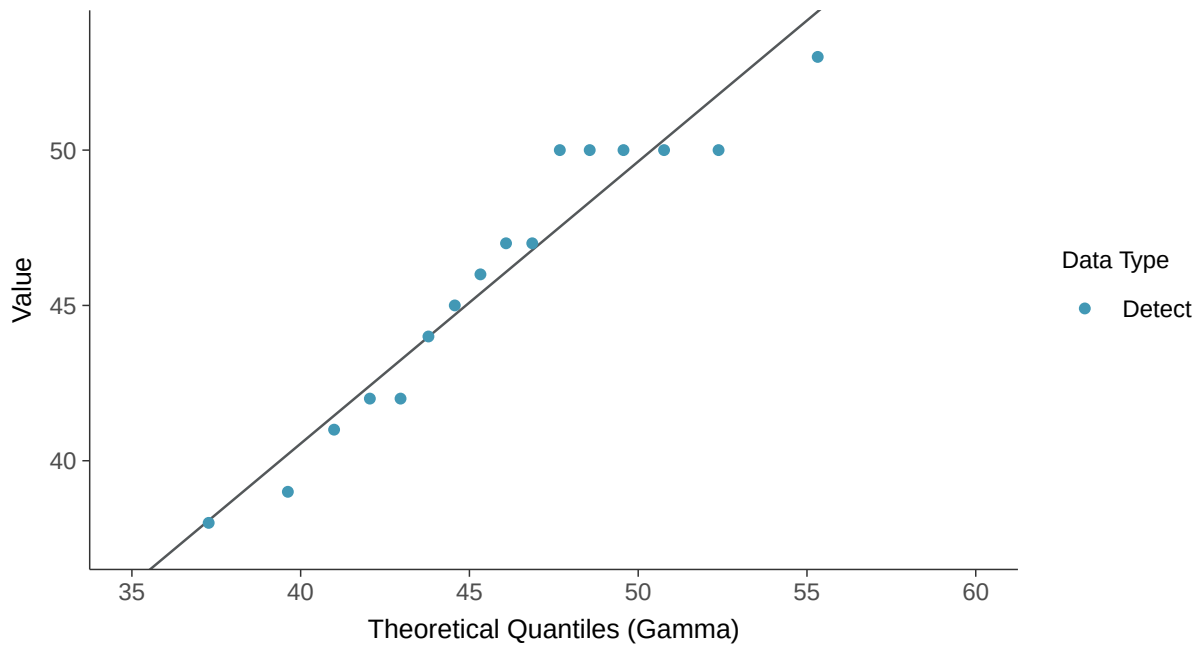
Lognormal Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



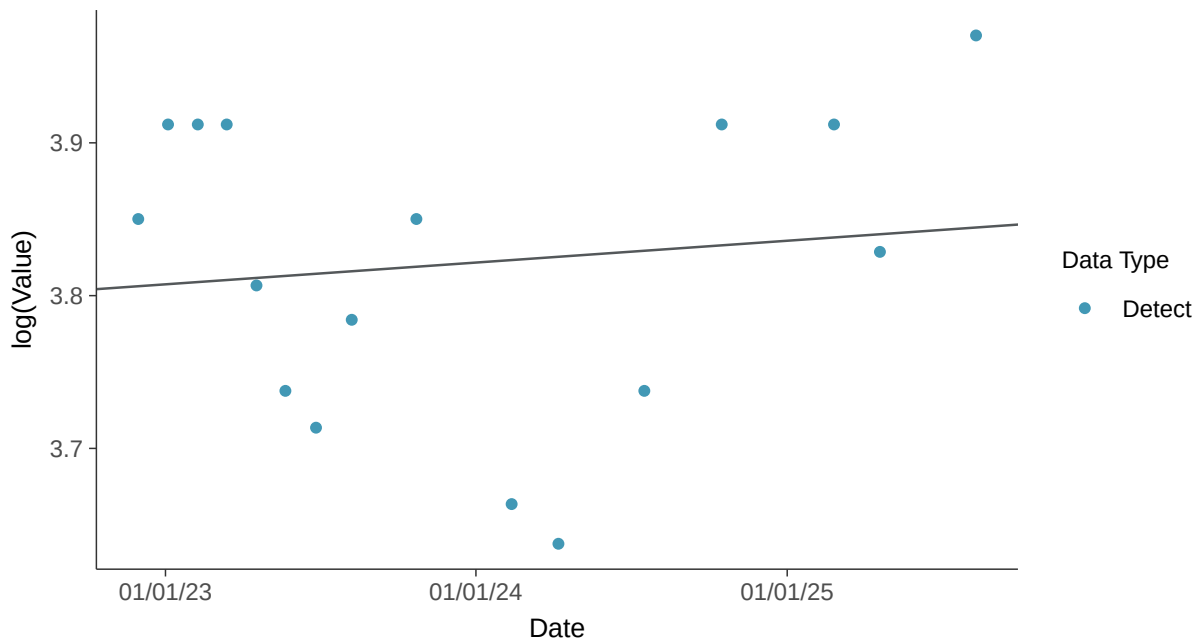
Gamma Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



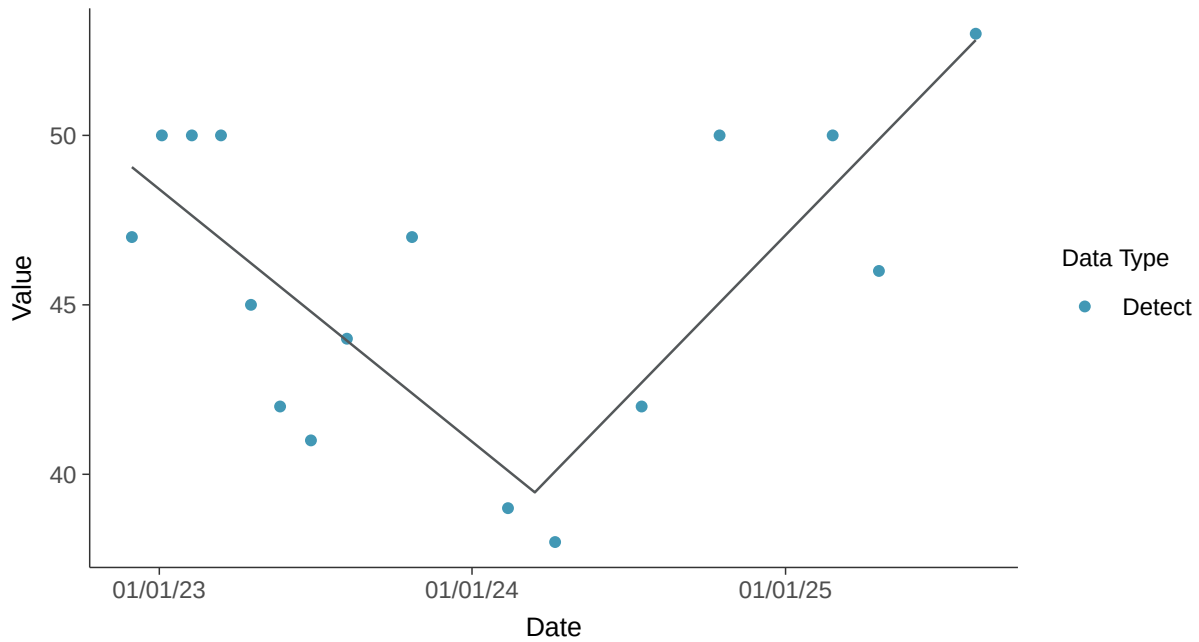
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-32 (mg/L)



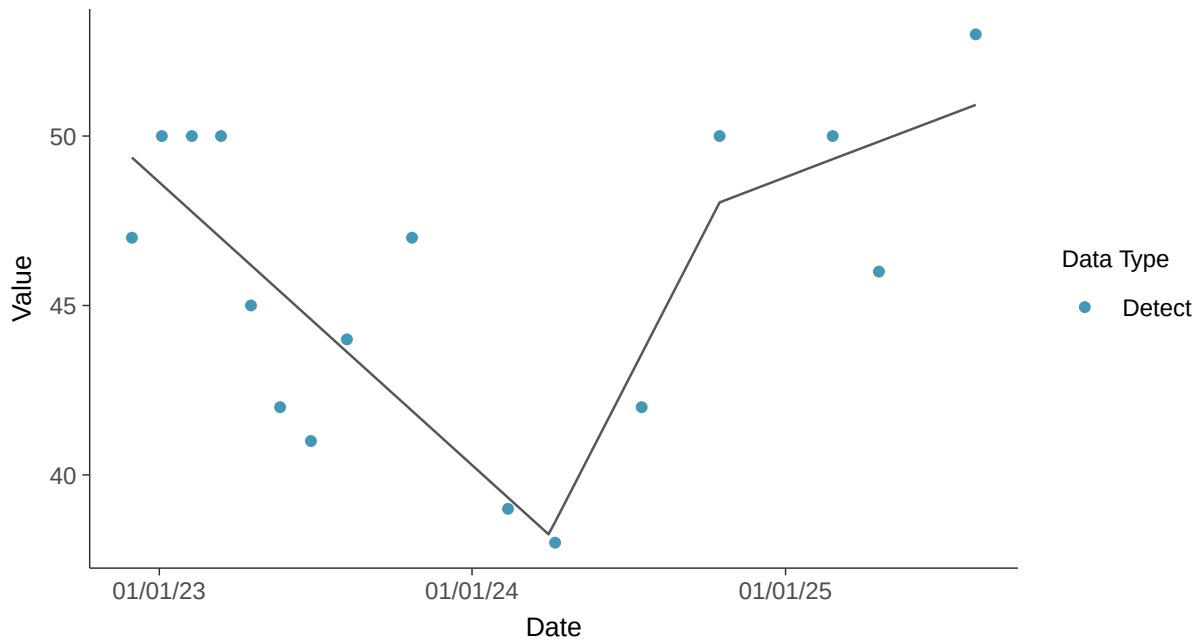
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-32 (mg/L)



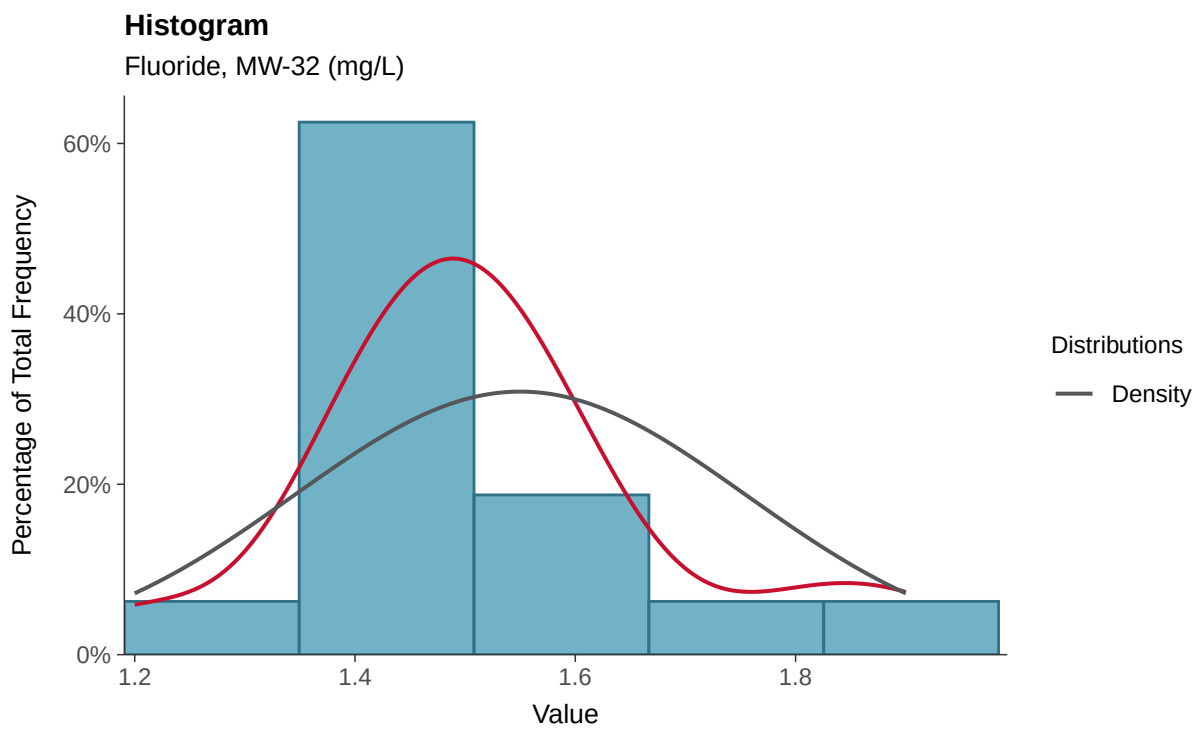
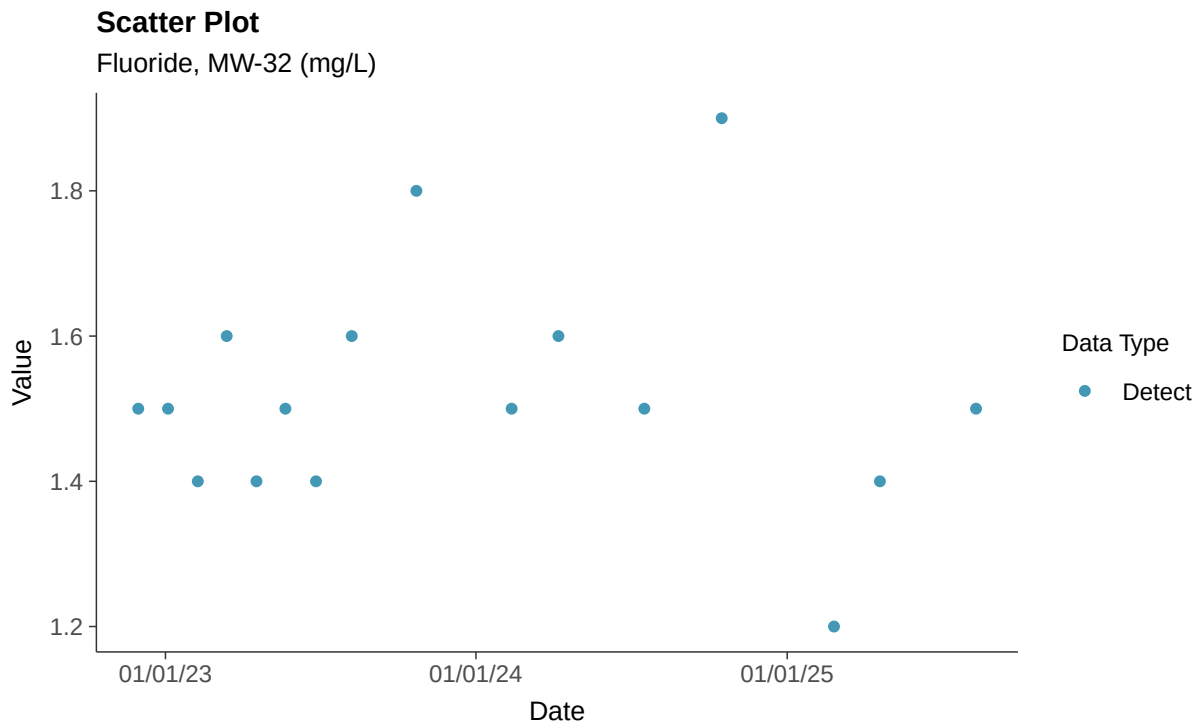
Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-32 (mg/L)



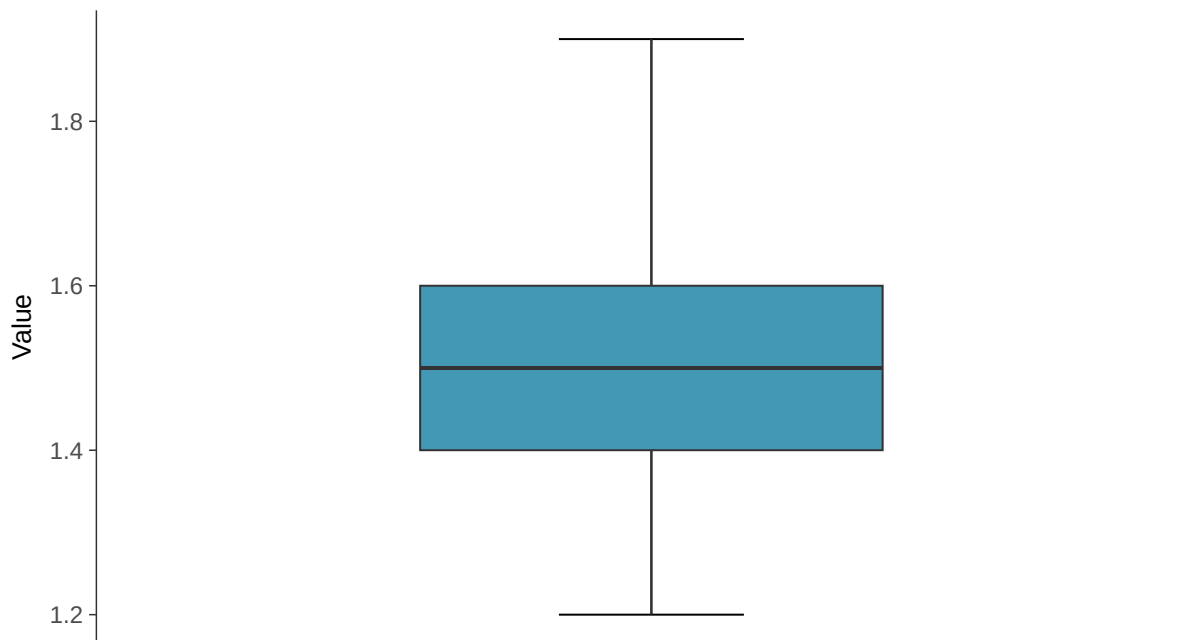
Appendix III: Fluoride, MW-32

ID: 42_1_3_112



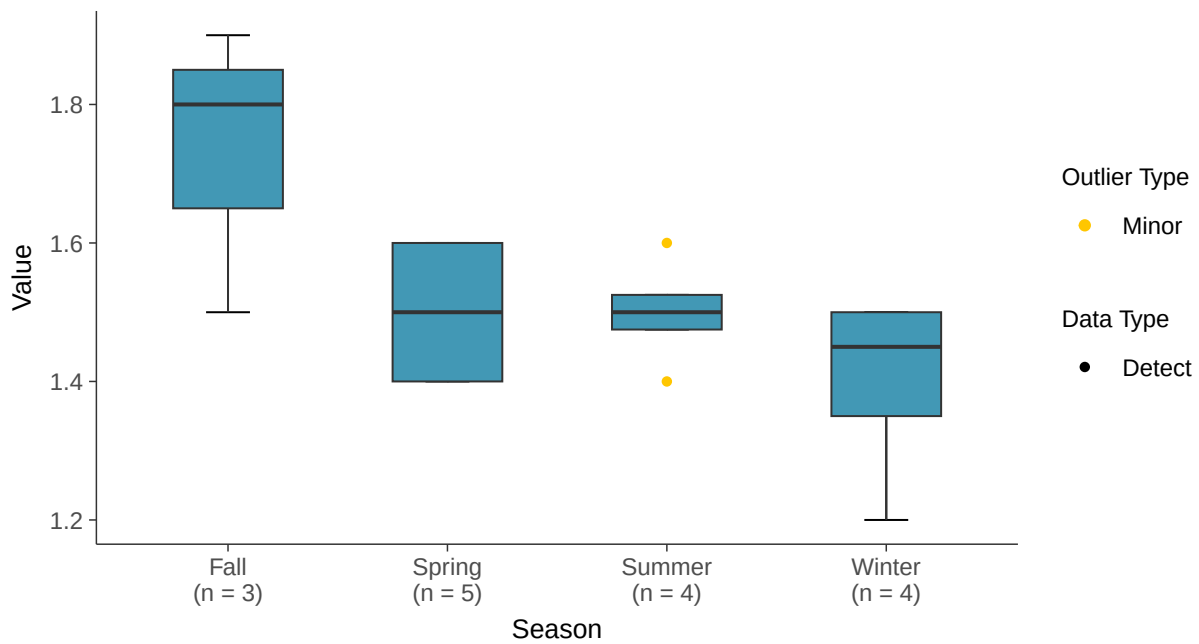
Boxplot

Fluoride, MW-32 (mg/L)



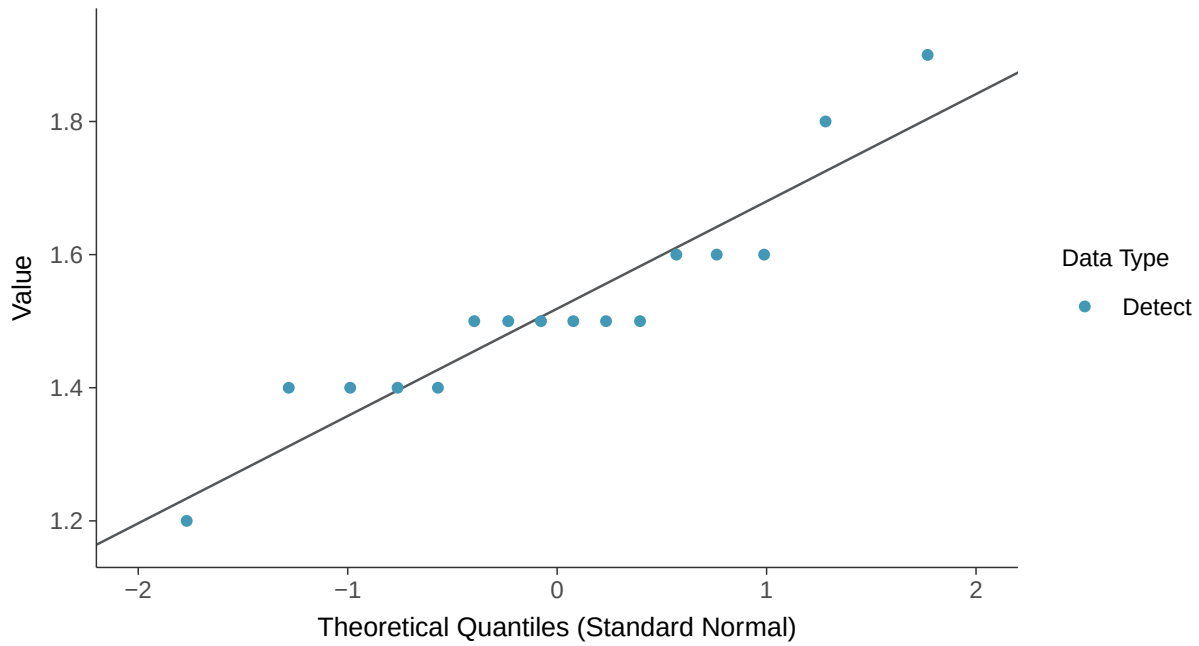
Boxplot by Season

Fluoride, MW-32 (mg/L)



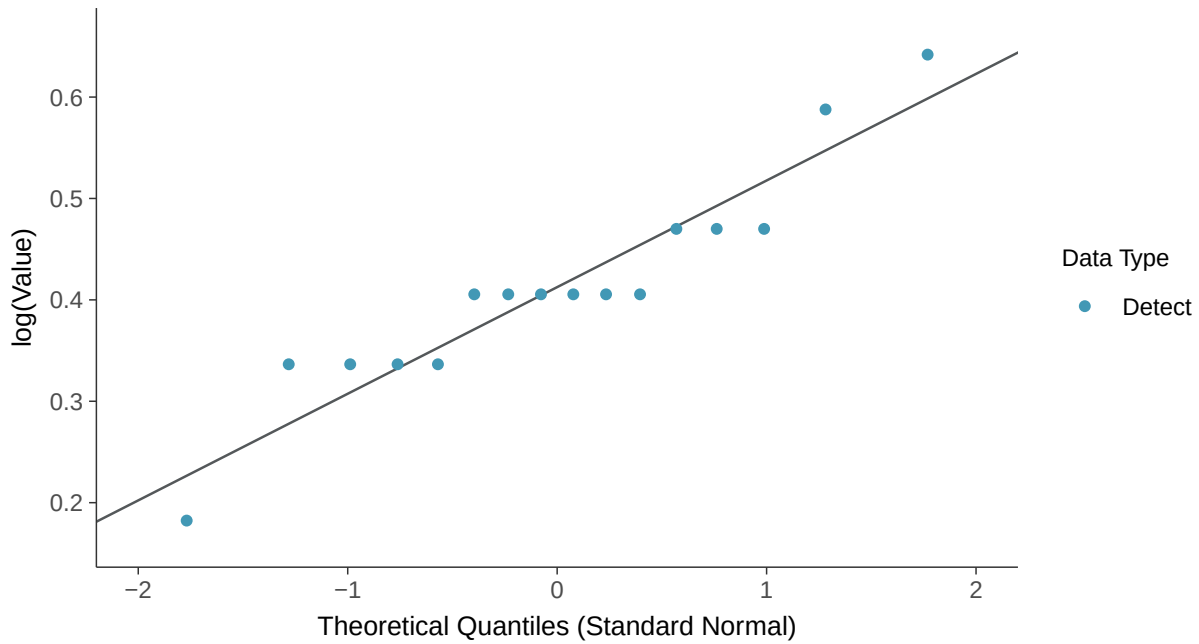
Normal Q-Q plot

Fluoride, MW-32 (mg/L)



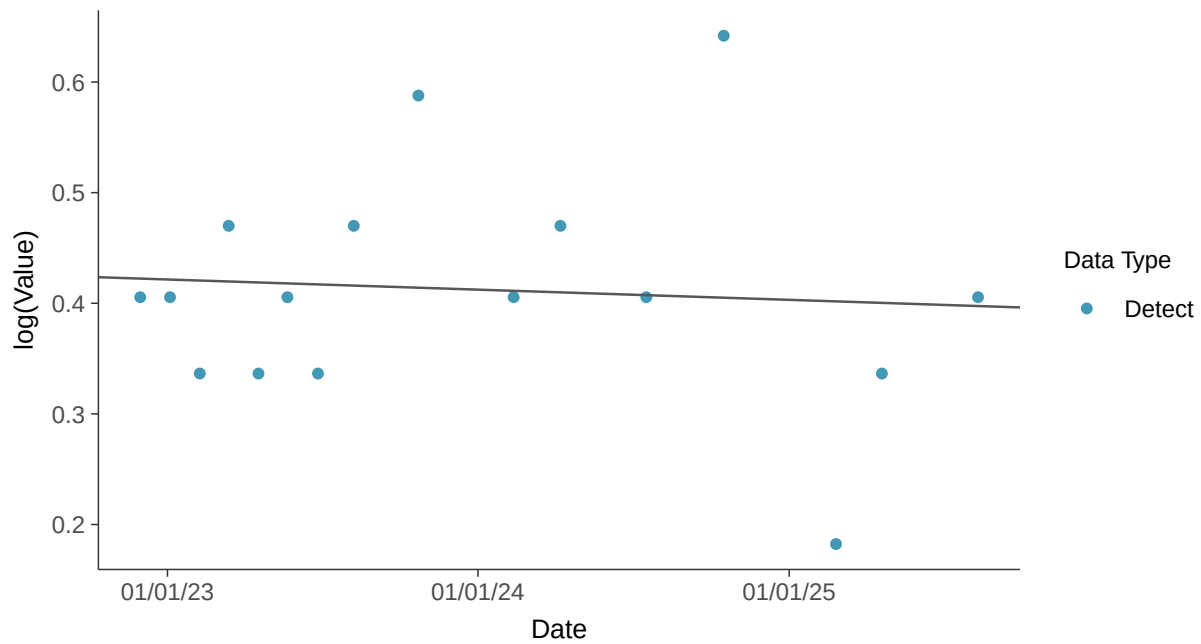
Lognormal Q-Q plot

Fluoride, MW-32 (mg/L)



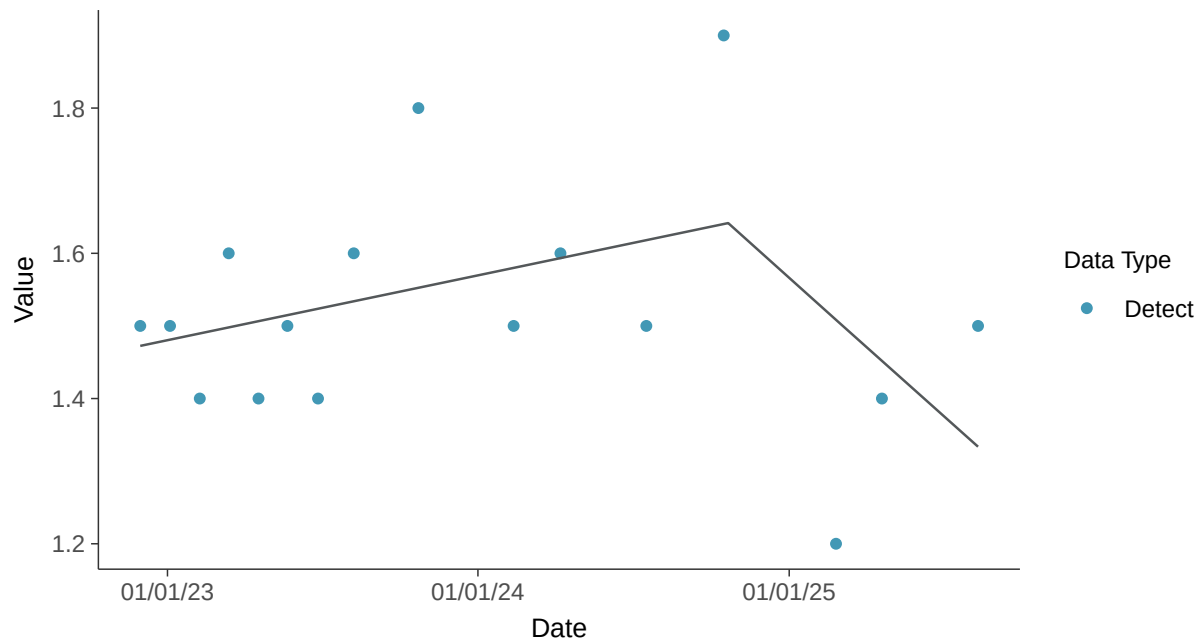
Trend Regression: Lognormal MLE

Fluoride, MW-32 (mg/L)



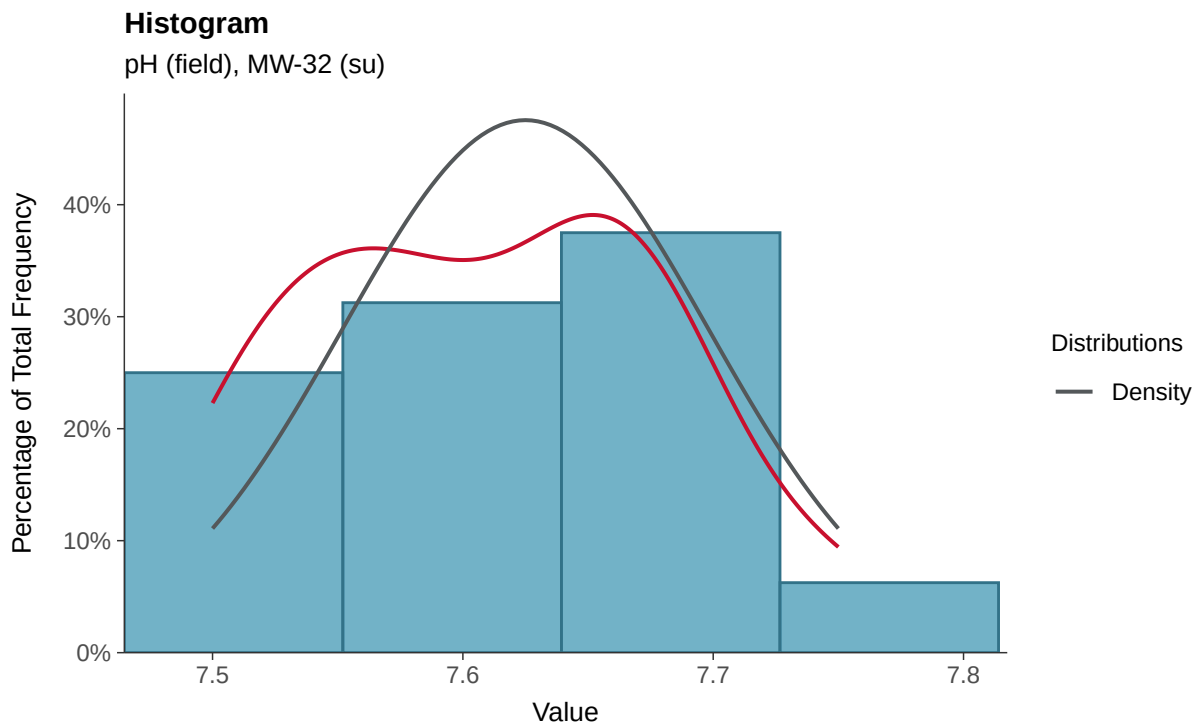
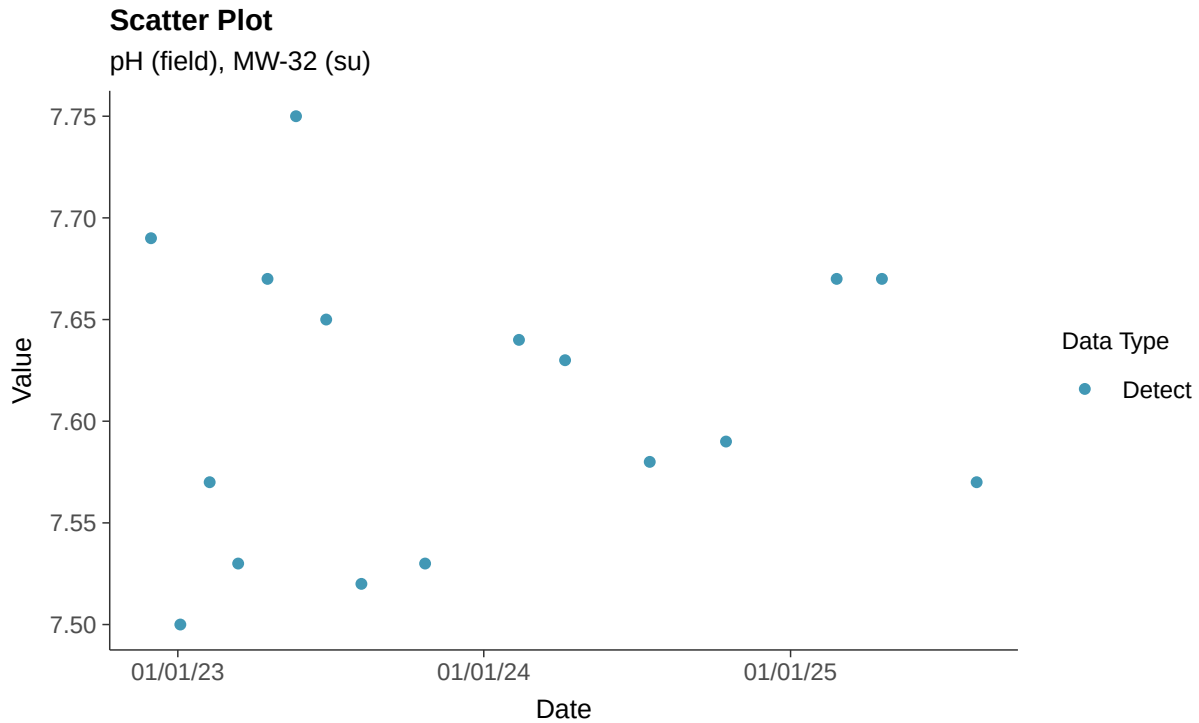
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-32 (mg/L)



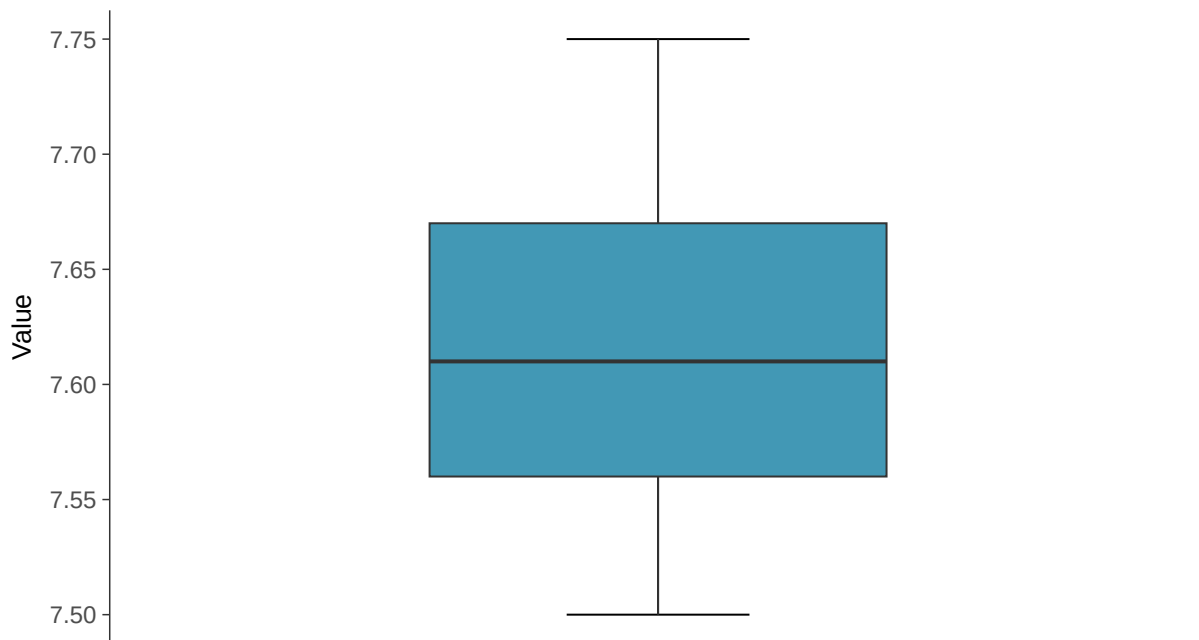
Appendix III: pH (field), MW-32

ID: 42_1_3_120



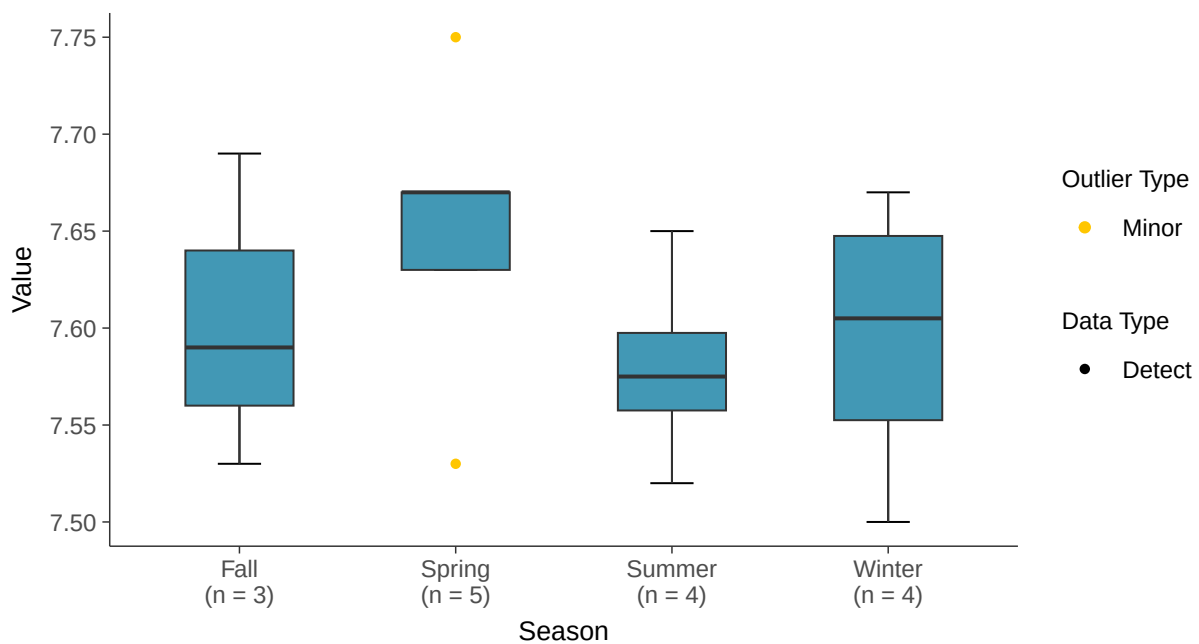
Boxplot

pH (field), MW-32 (su)

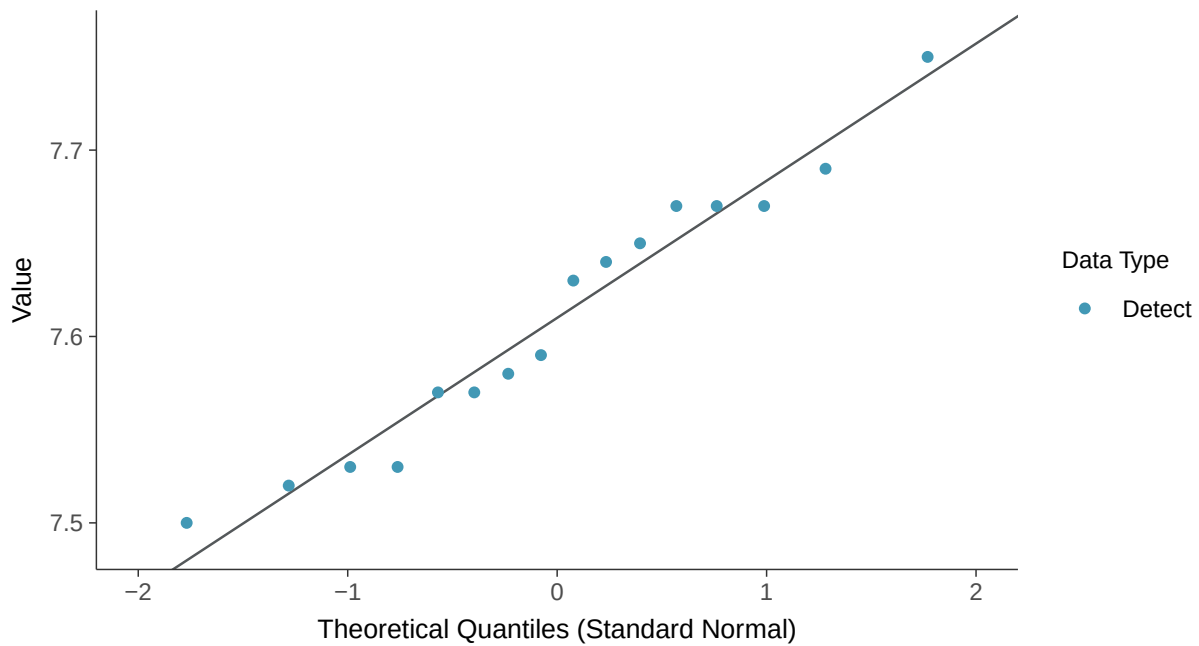


Boxplot by Season

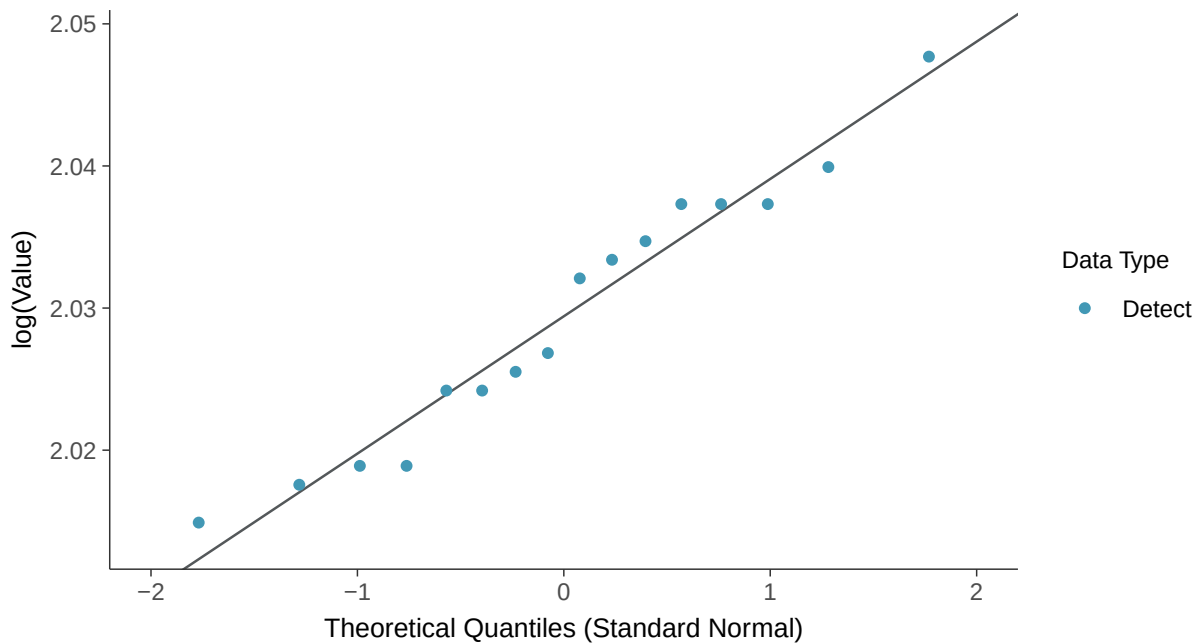
pH (field), MW-32 (su)



Normal Q-Q plot
pH (field), MW-32 (su)

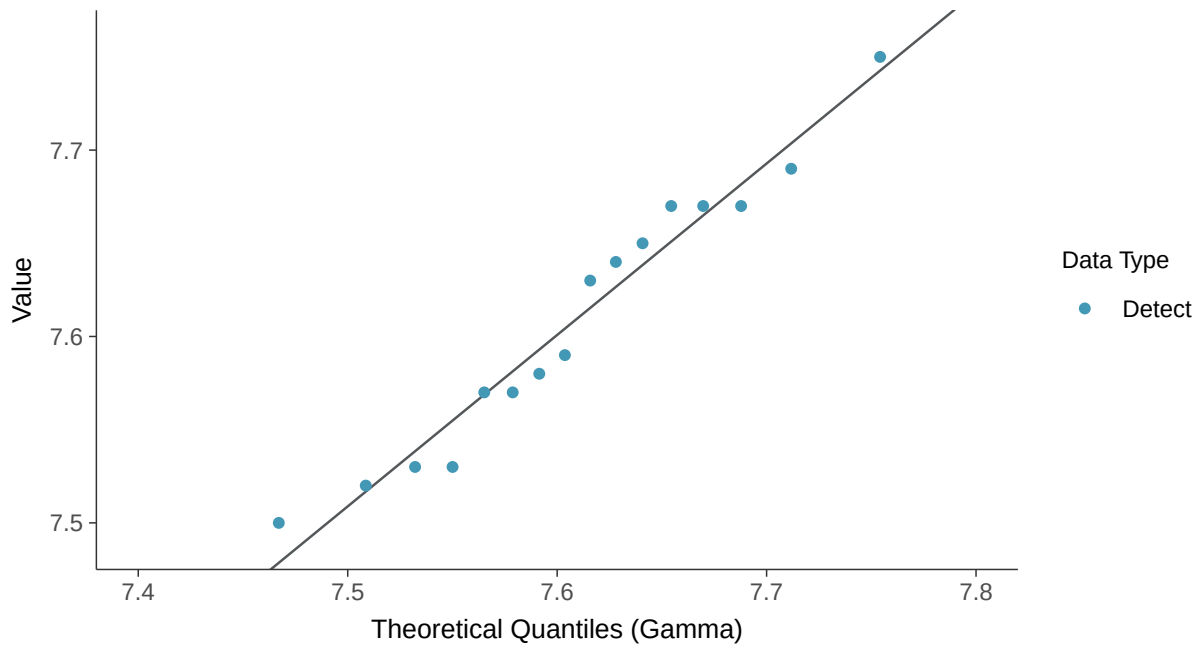


Lognormal Q-Q plot
pH (field), MW-32 (su)



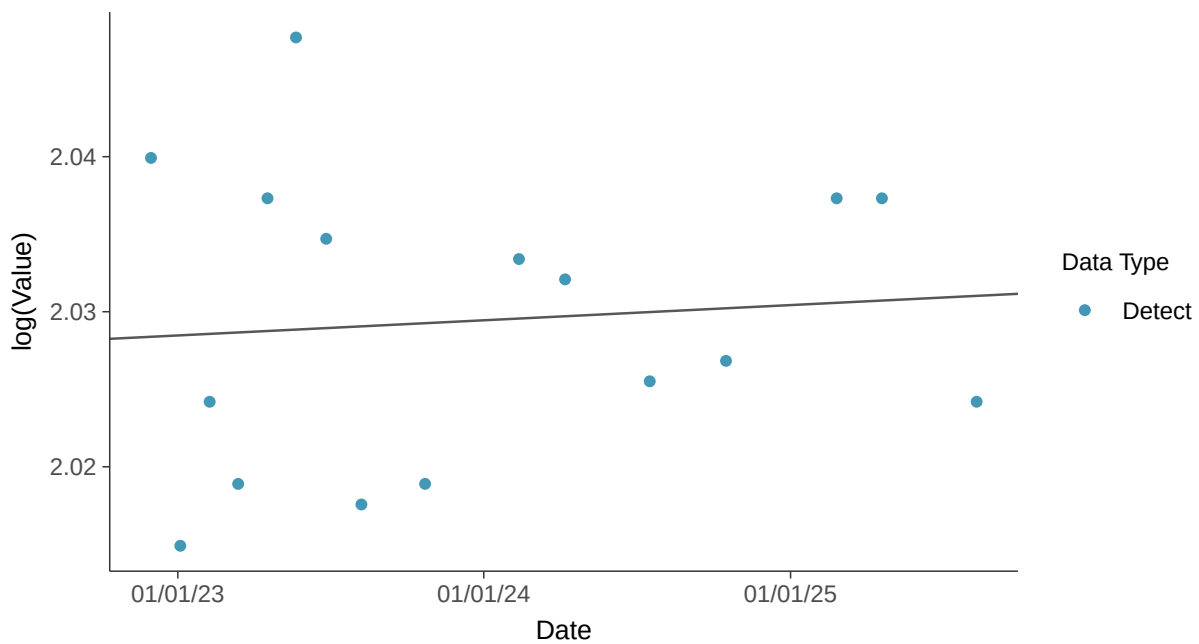
Gamma Q-Q plot

pH (field), MW-32 (su)



Trend Regression: Lognormal MLE

pH (field), MW-32 (su)

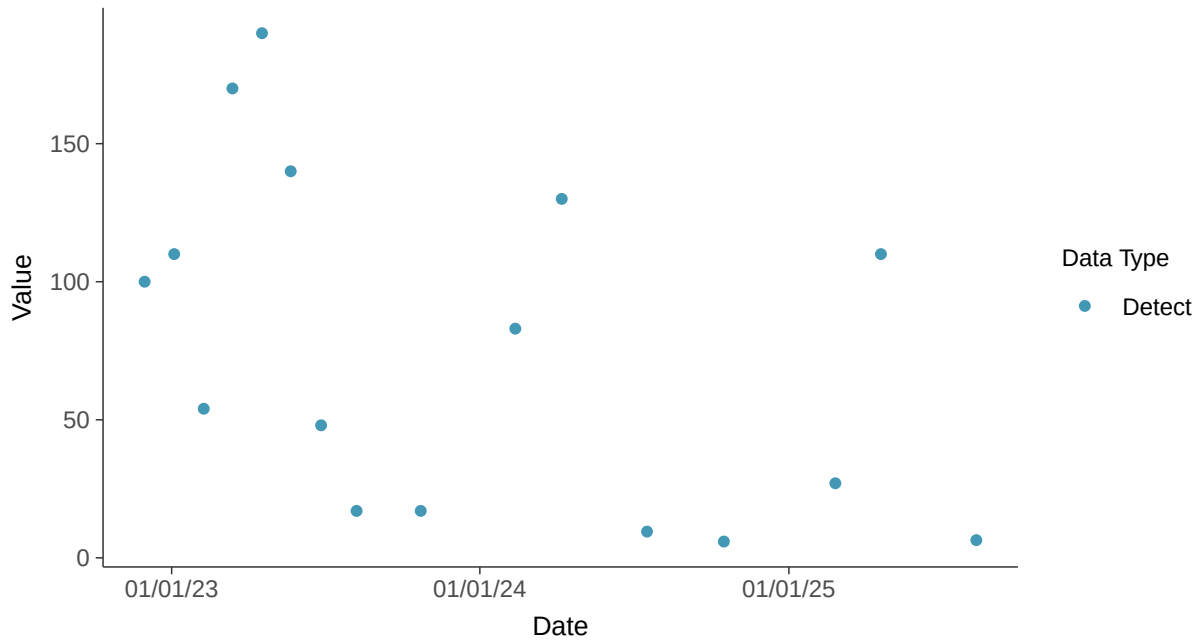


Appendix III: Sulfate (as SO₄), MW-32

ID: 42_1_3_124

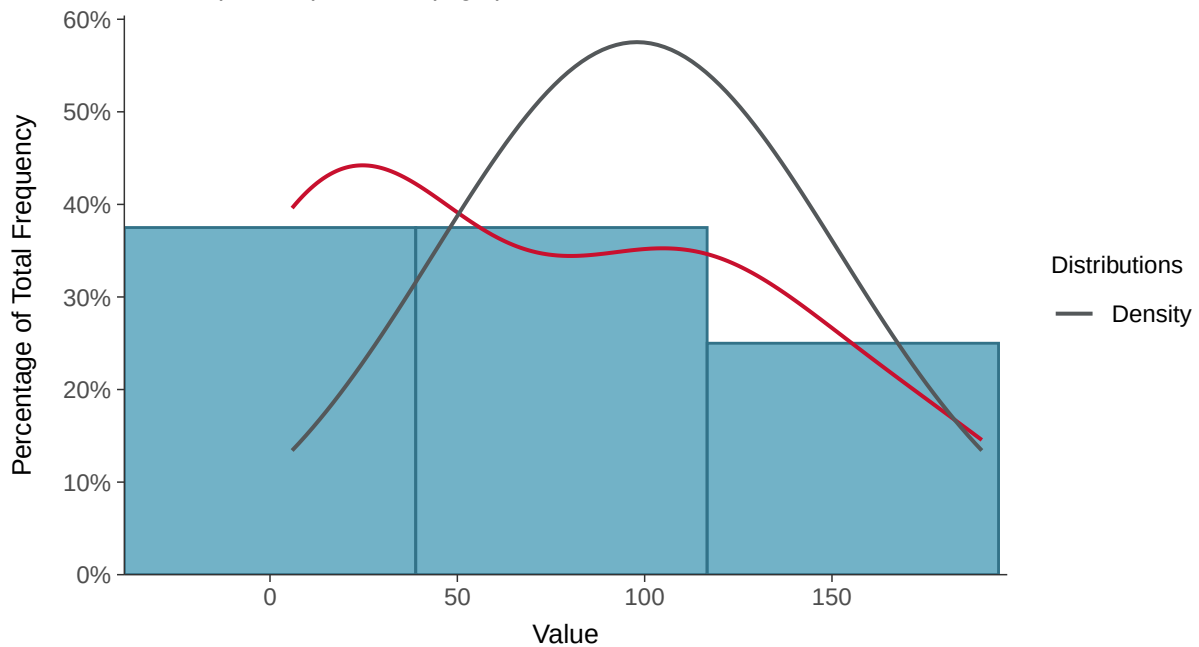
Scatter Plot

Sulfate (as SO₄), MW-32 (mg/L)



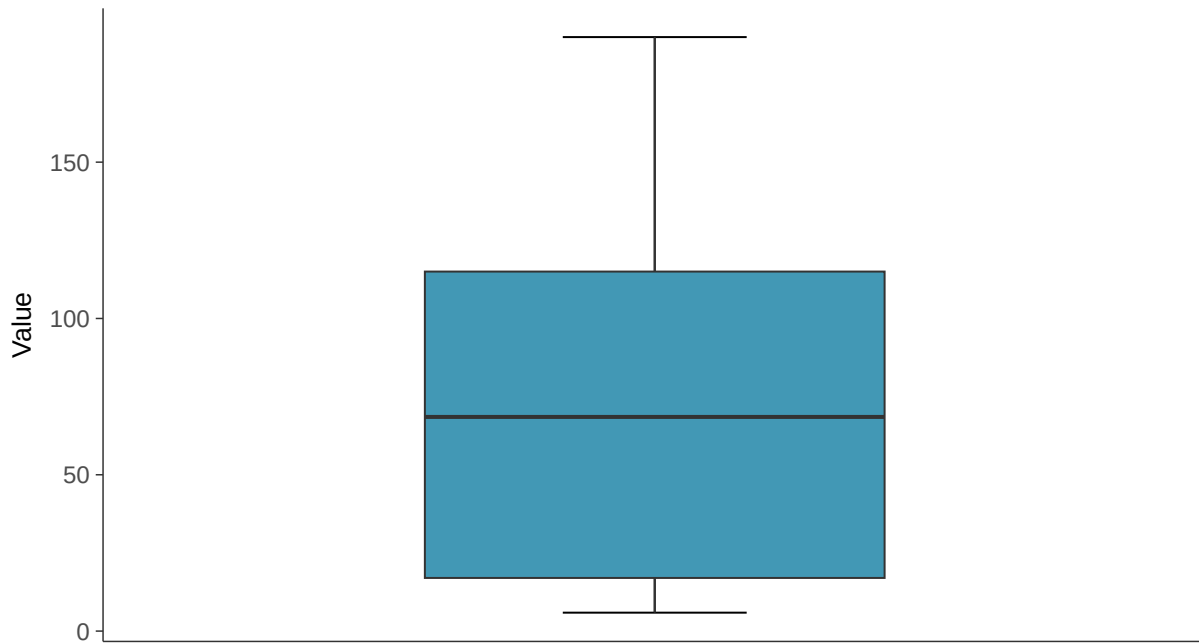
Histogram

Sulfate (as SO₄), MW-32 (mg/L)



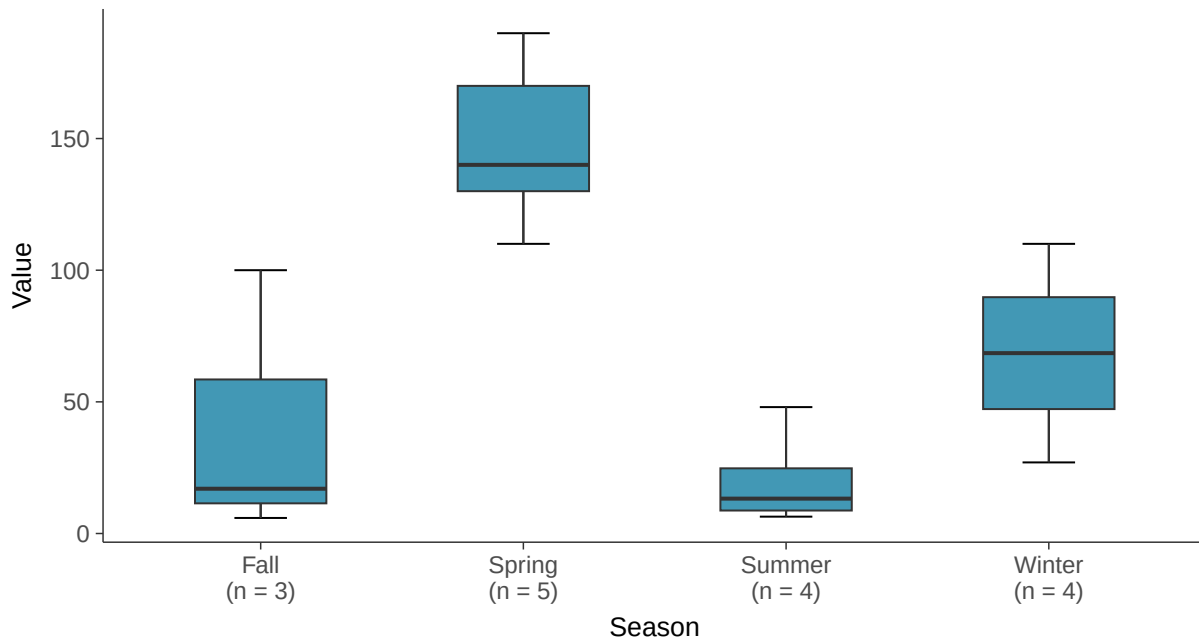
Boxplot

Sulfate (as SO₄), MW-32 (mg/L)



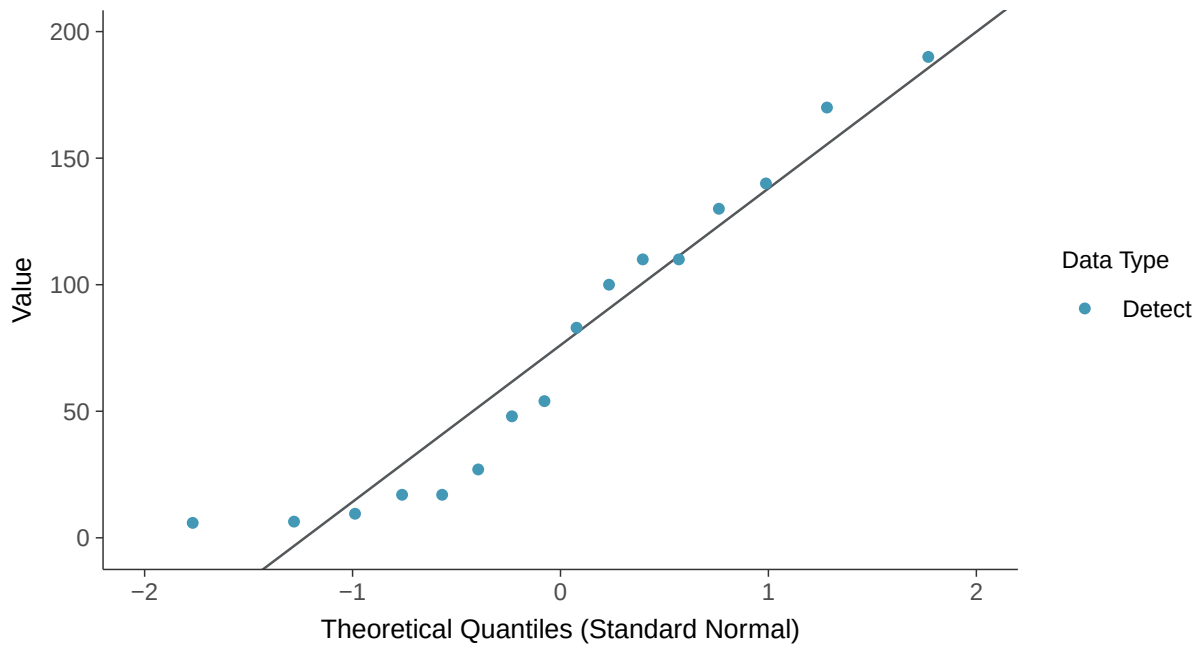
Boxplot by Season

Sulfate (as SO₄), MW-32 (mg/L)



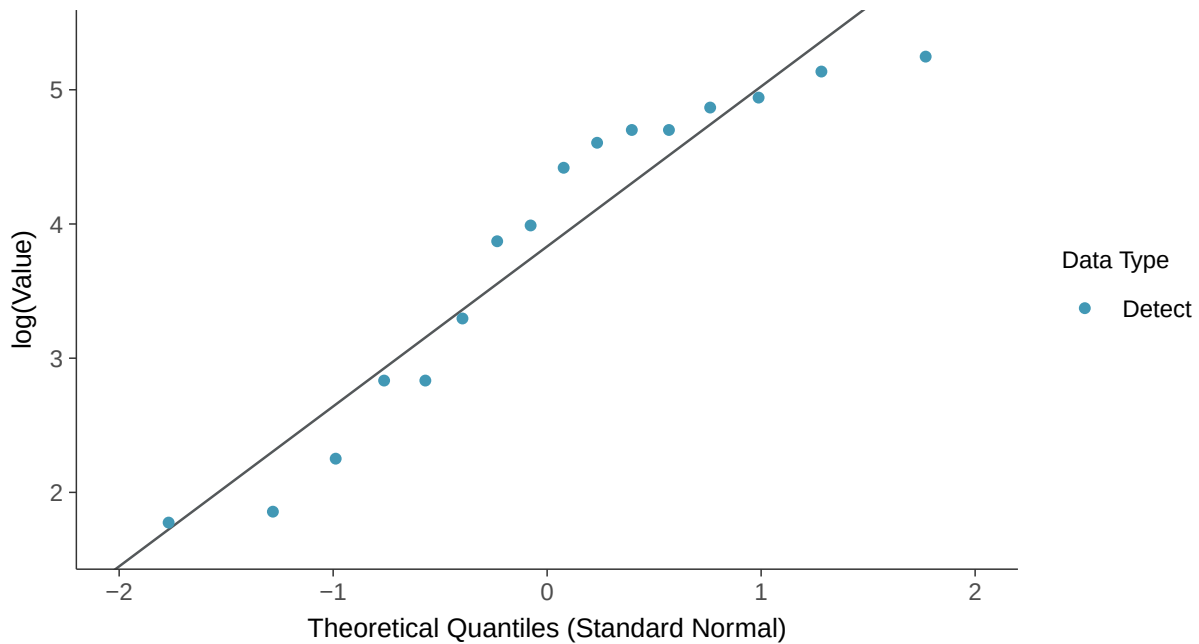
Normal Q-Q plot

Sulfate (as SO₄), MW-32 (mg/L)



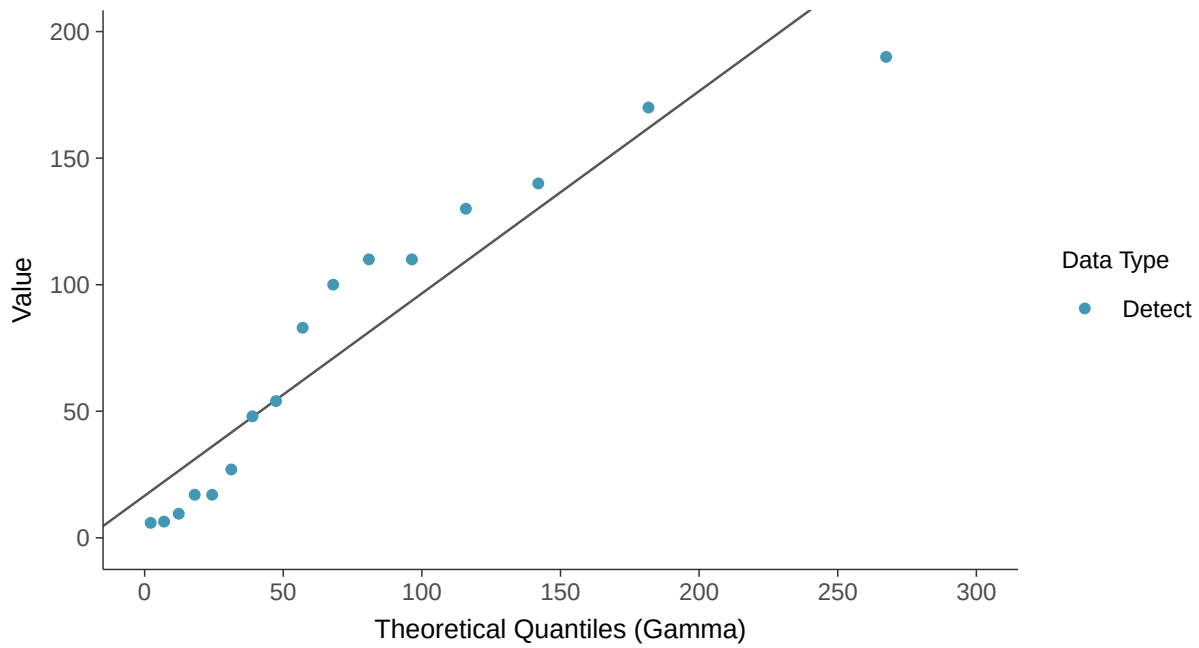
Lognormal Q-Q plot

Sulfate (as SO₄), MW-32 (mg/L)



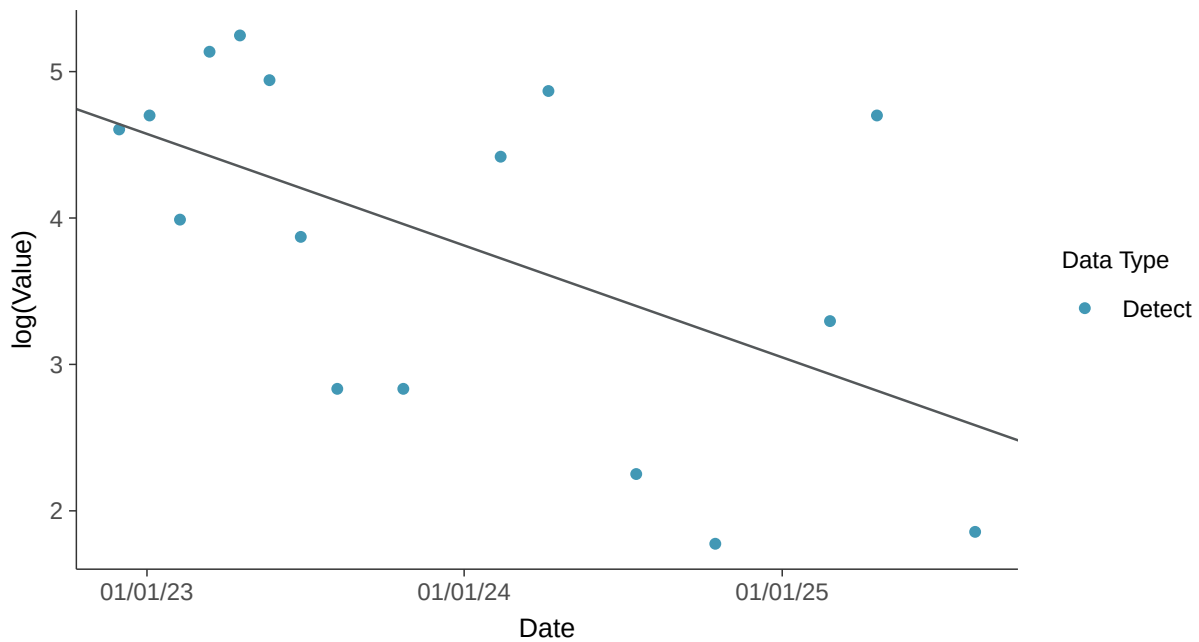
Gamma Q-Q plot

Sulfate (as SO₄), MW-32 (mg/L)



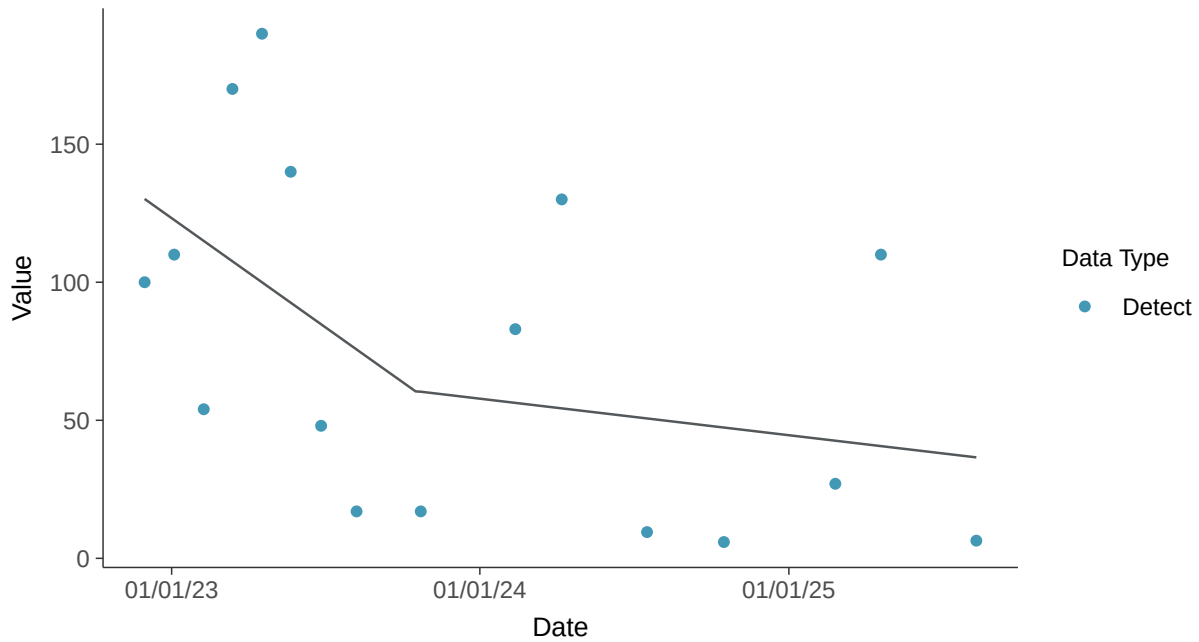
Trend Regression: Lognormal MLE

Sulfate (as SO₄), MW-32 (mg/L)



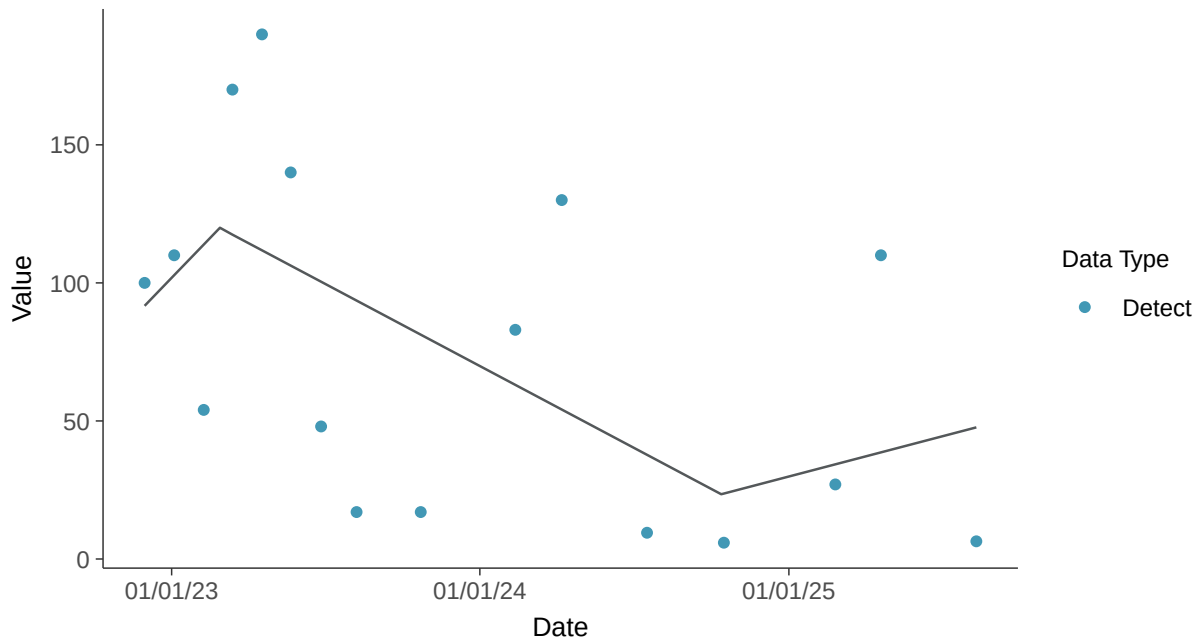
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO₄), MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO₄), MW-32 (mg/L)

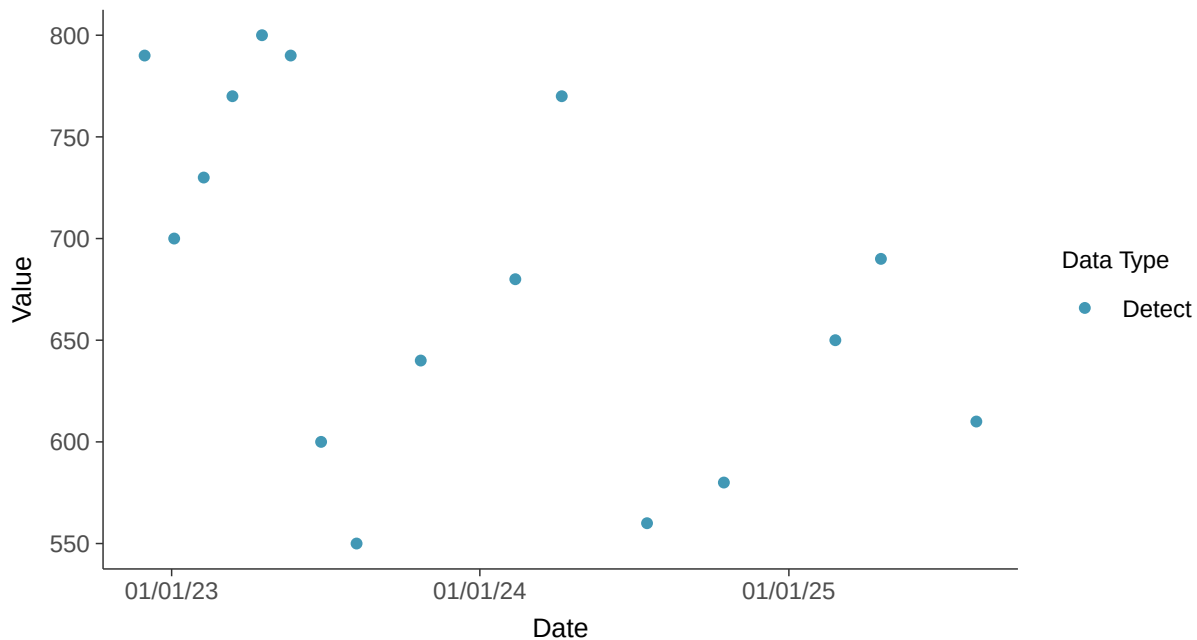


Appendix III: Total Dissolved Solids, MW-32

ID: 42_1_3_126

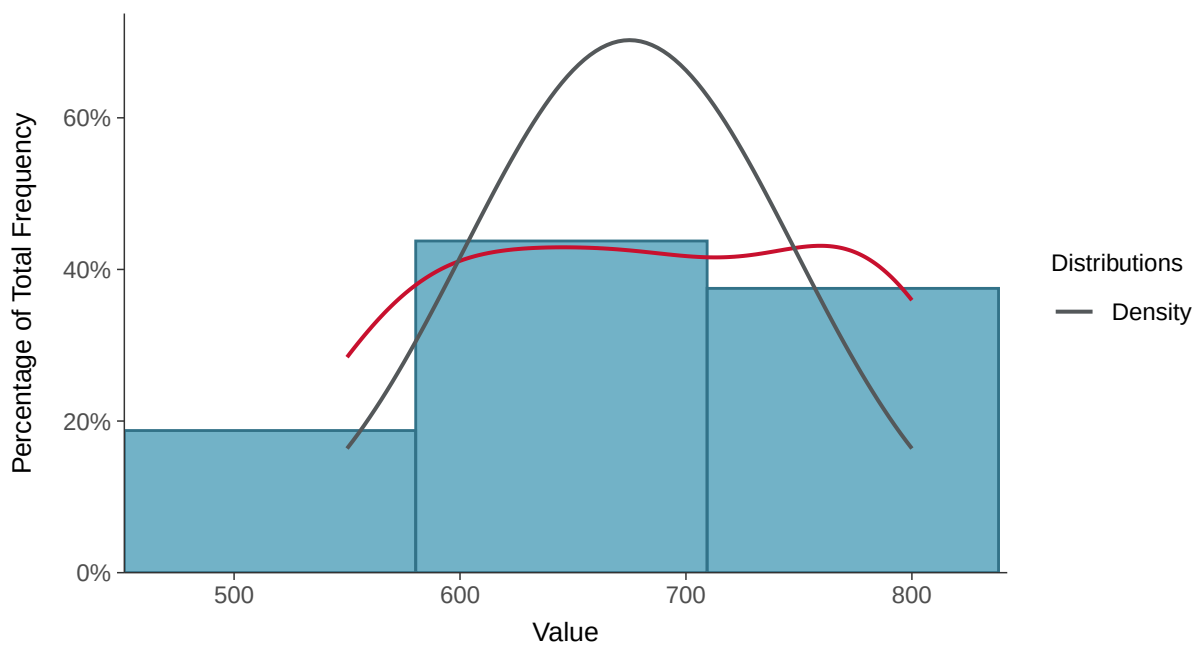
Scatter Plot

Total Dissolved Solids, MW-32 (mg/L)



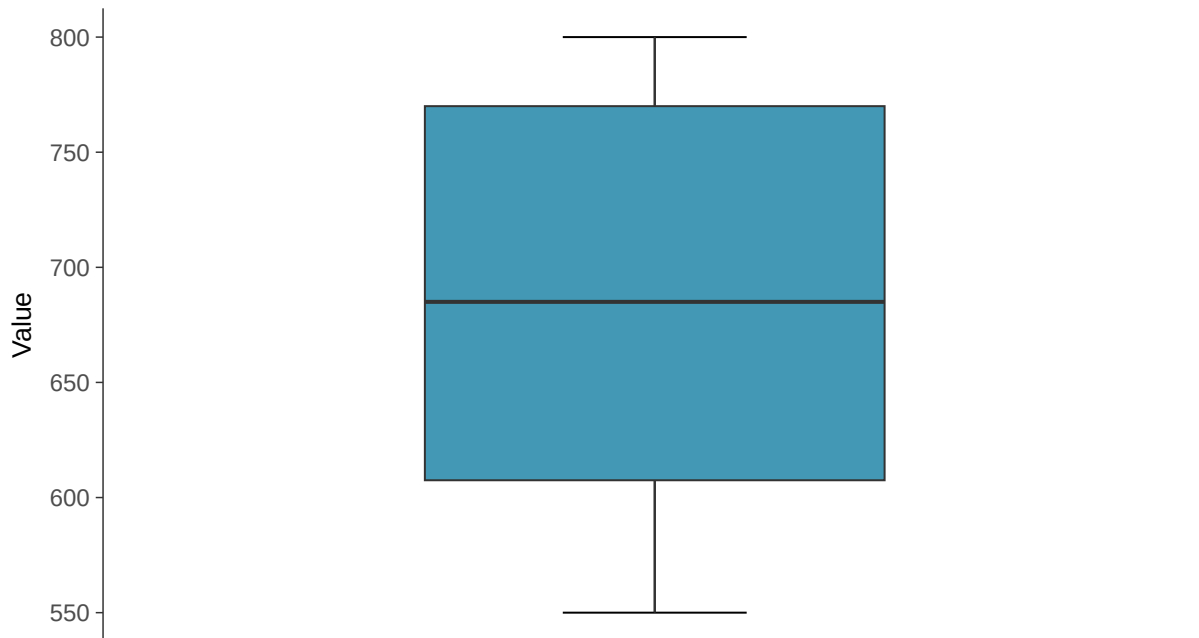
Histogram

Total Dissolved Solids, MW-32 (mg/L)



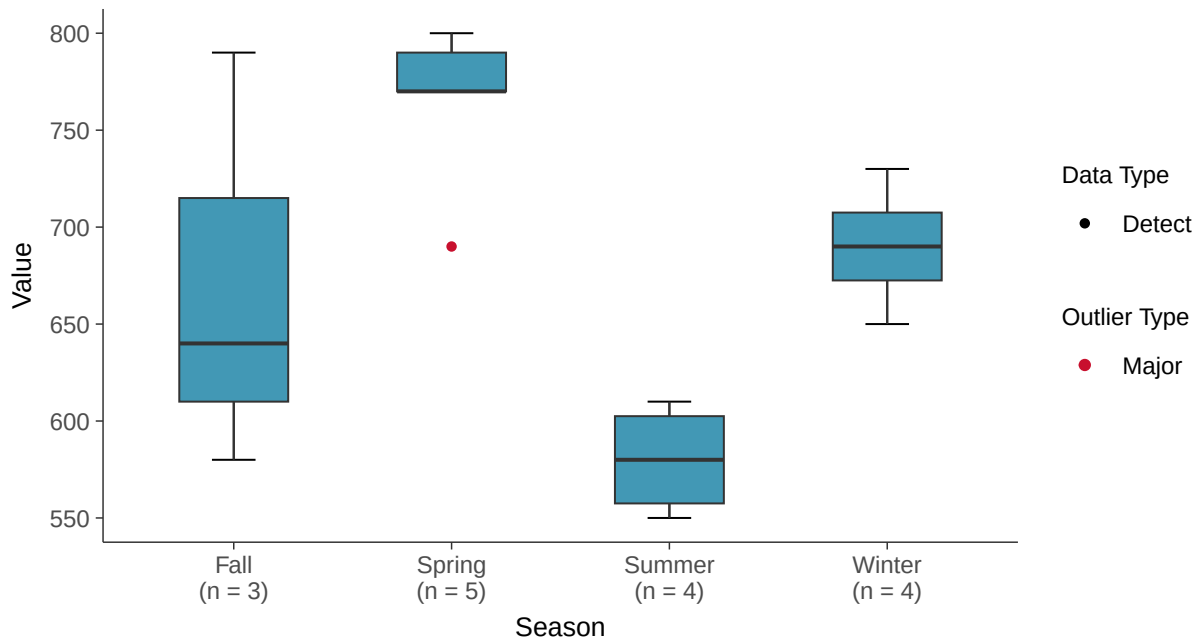
Boxplot

Total Dissolved Solids, MW-32 (mg/L)



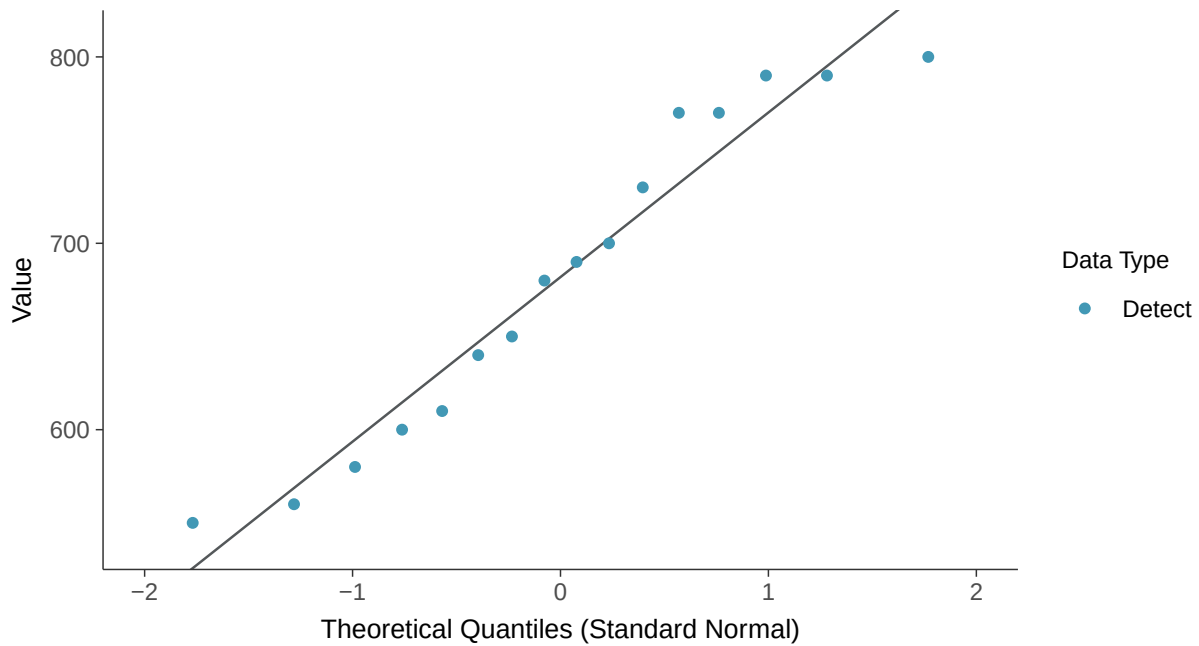
Boxplot by Season

Total Dissolved Solids, MW-32 (mg/L)



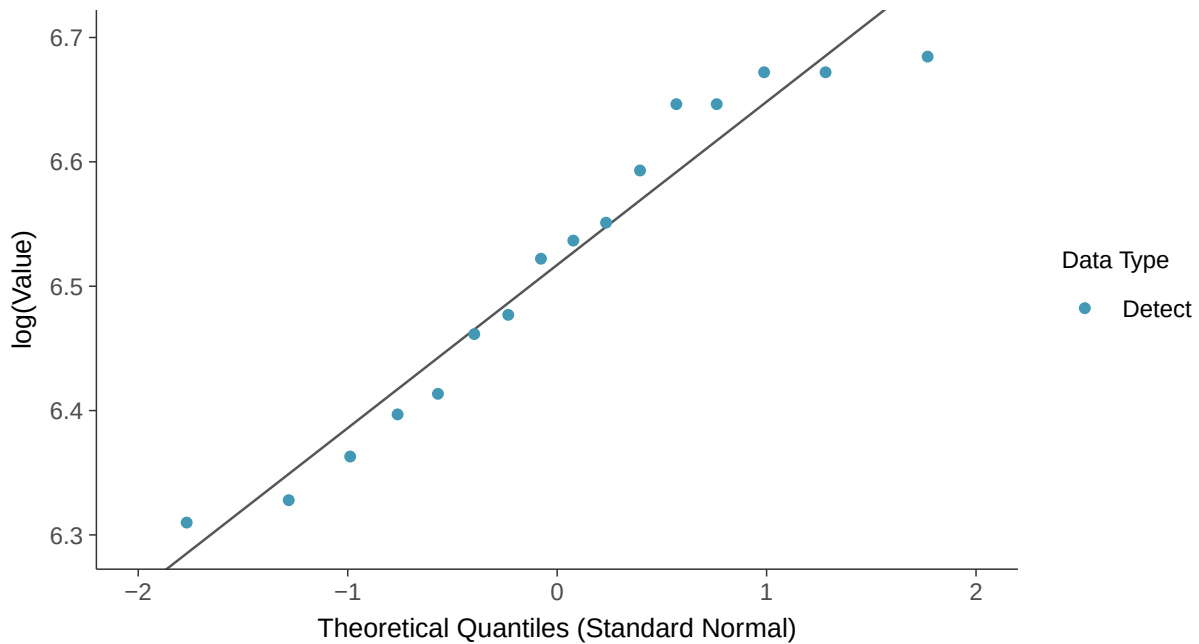
Normal Q-Q plot

Total Dissolved Solids, MW-32 (mg/L)



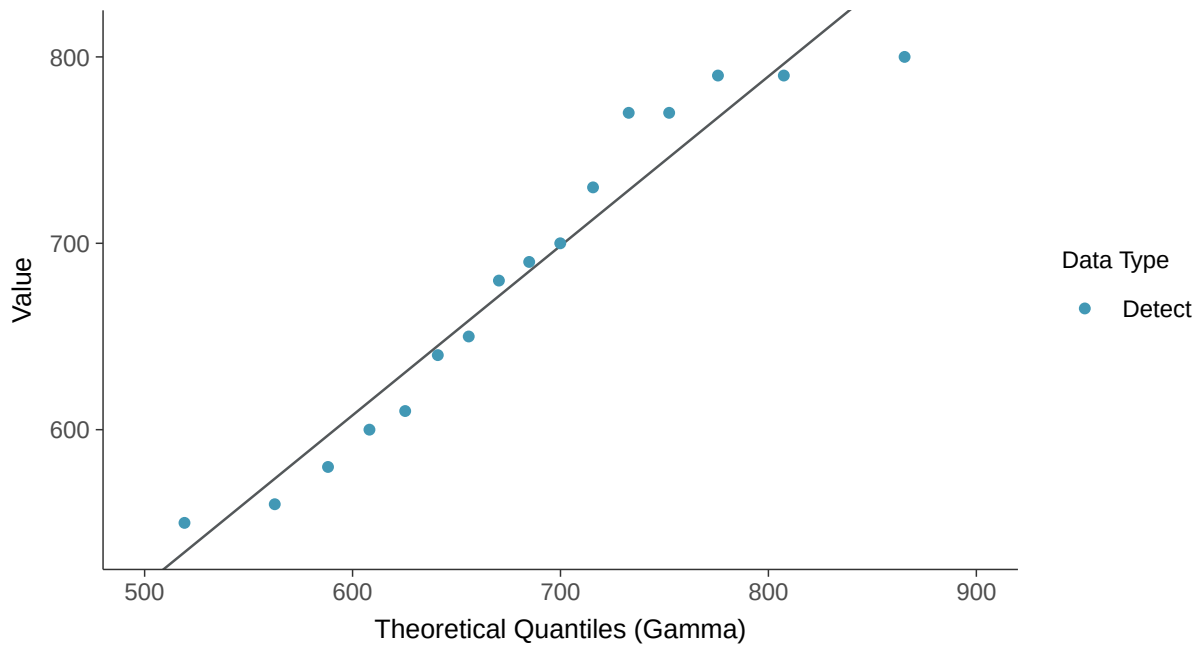
Lognormal Q-Q plot

Total Dissolved Solids, MW-32 (mg/L)



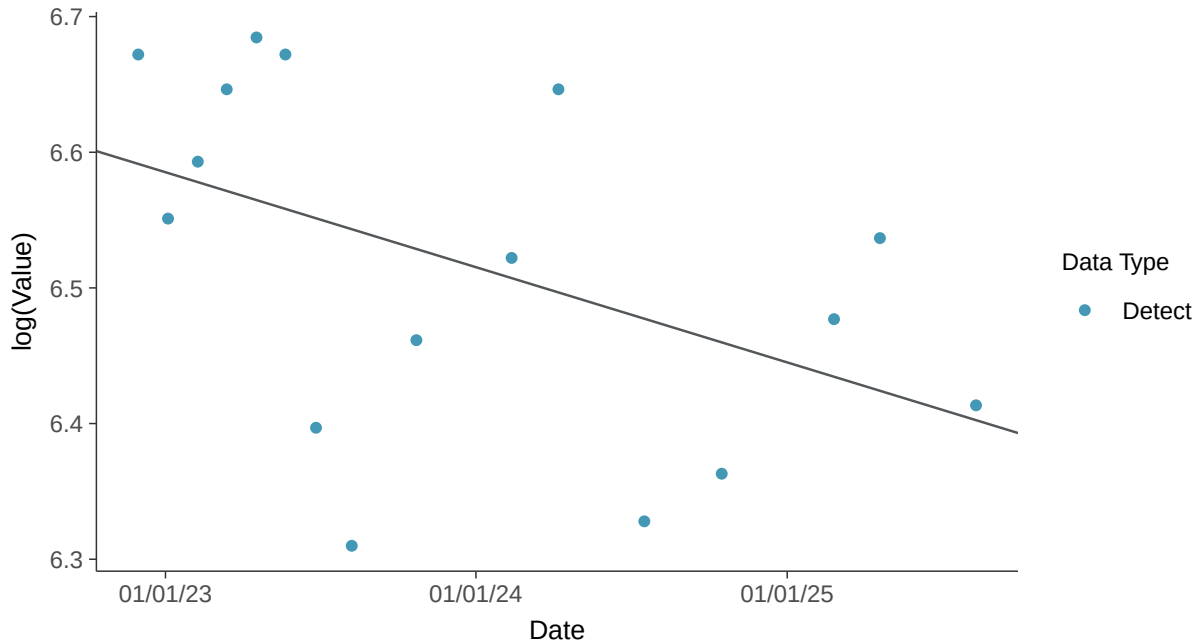
Gamma Q-Q plot

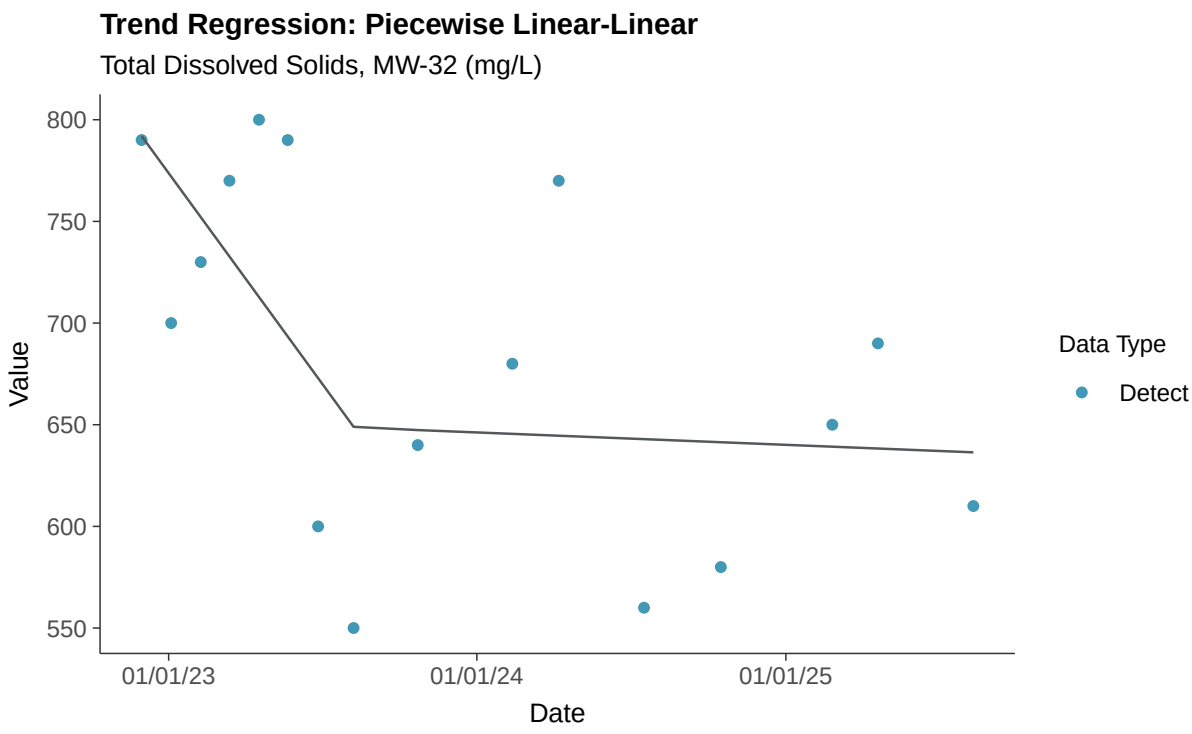
Total Dissolved Solids, MW-32 (mg/L)

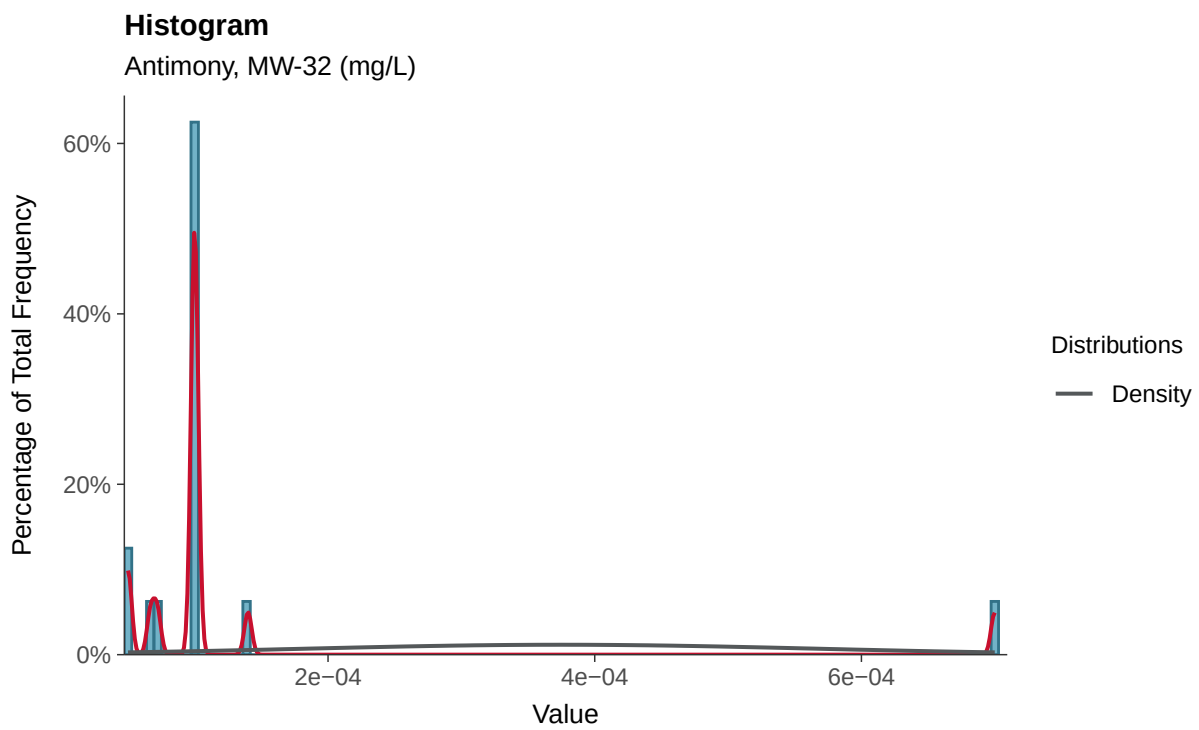


Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-32 (mg/L)

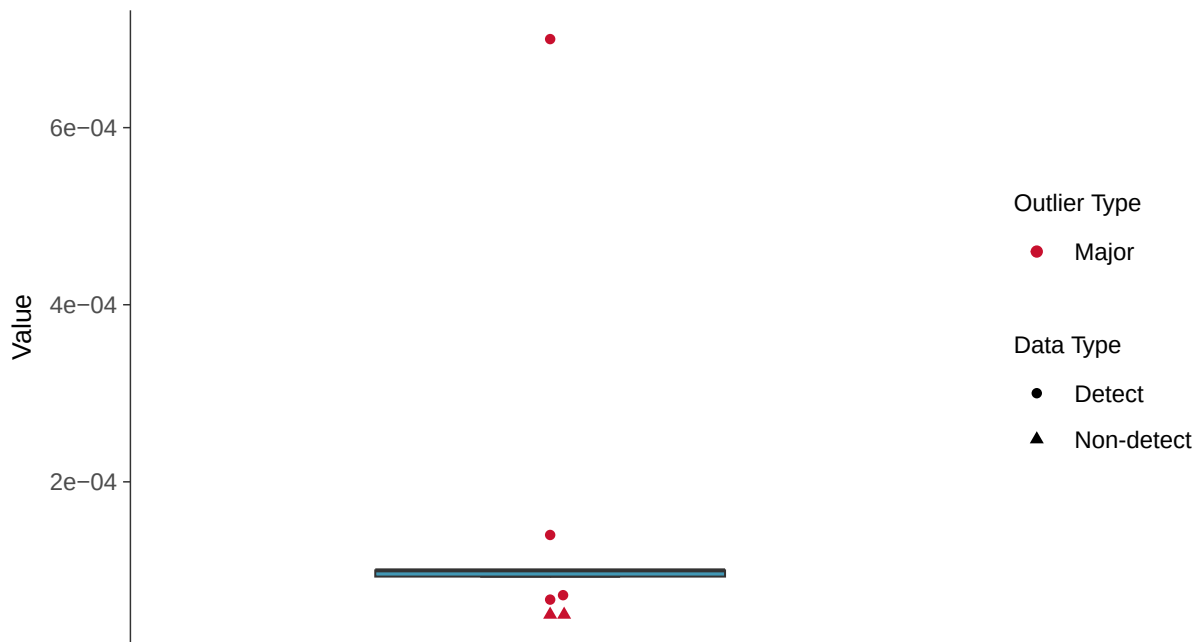






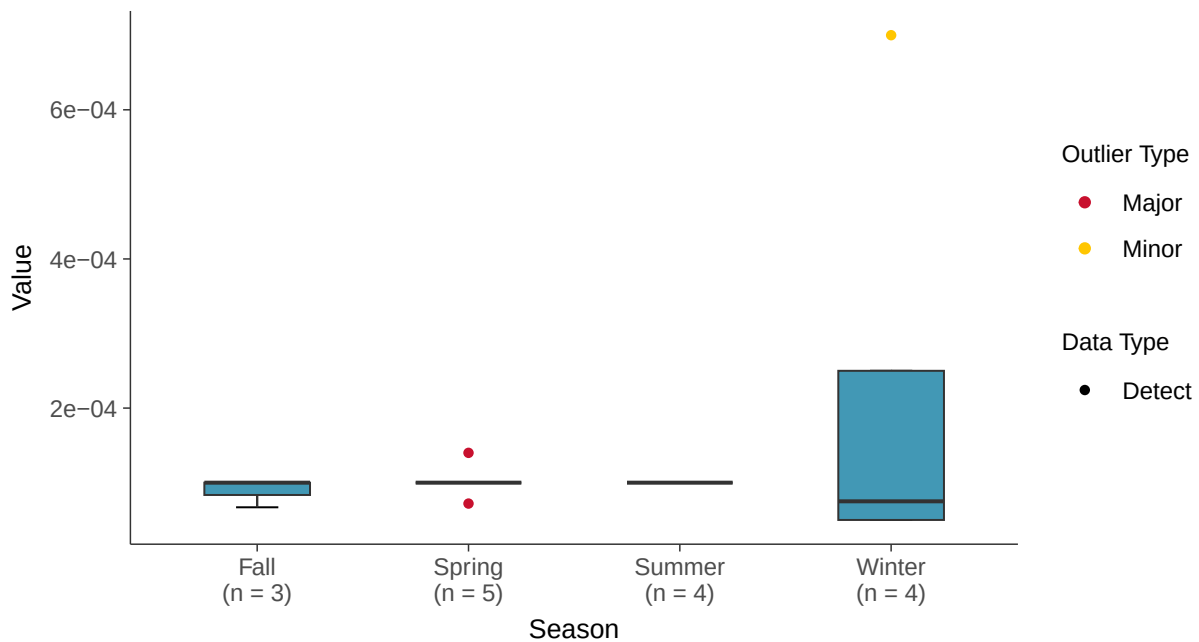
Boxplot

Antimony, MW-32 (mg/L)

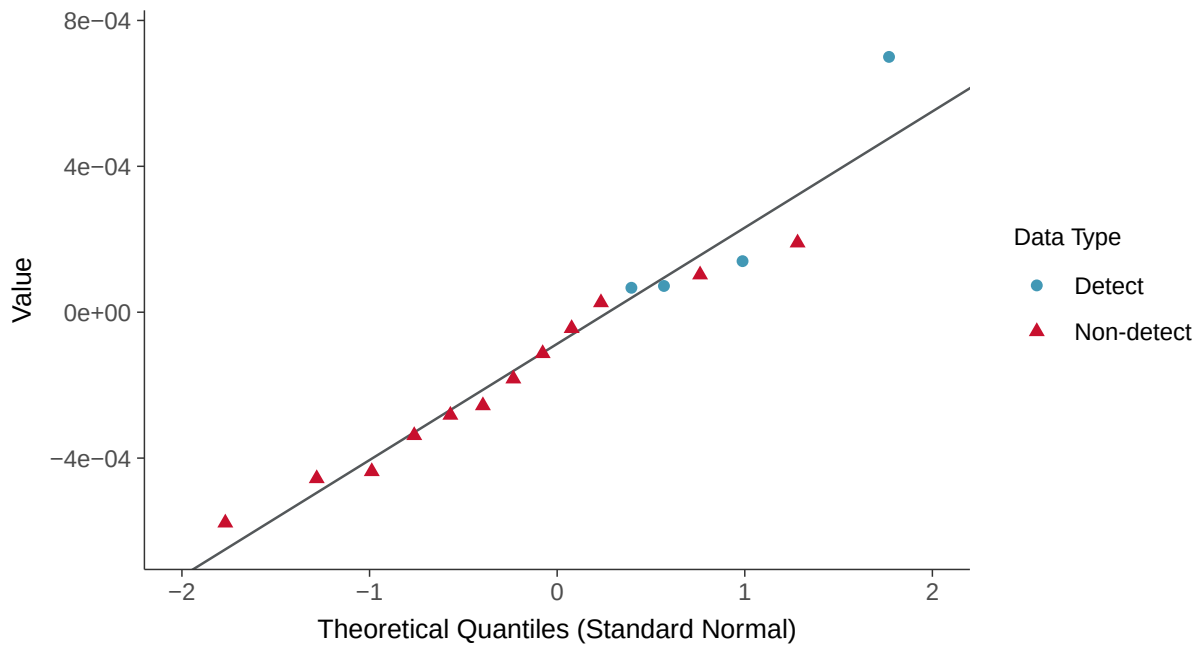


Boxplot by Season

Antimony, MW-32 (mg/L)

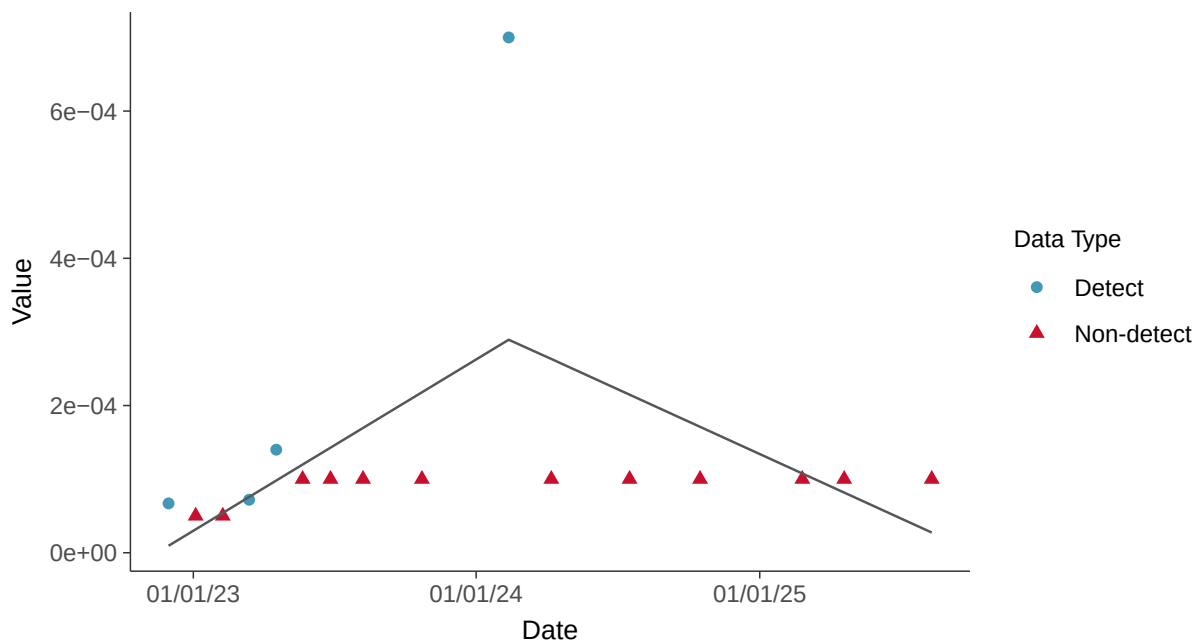


Antimony, MW-32 (mg/L)

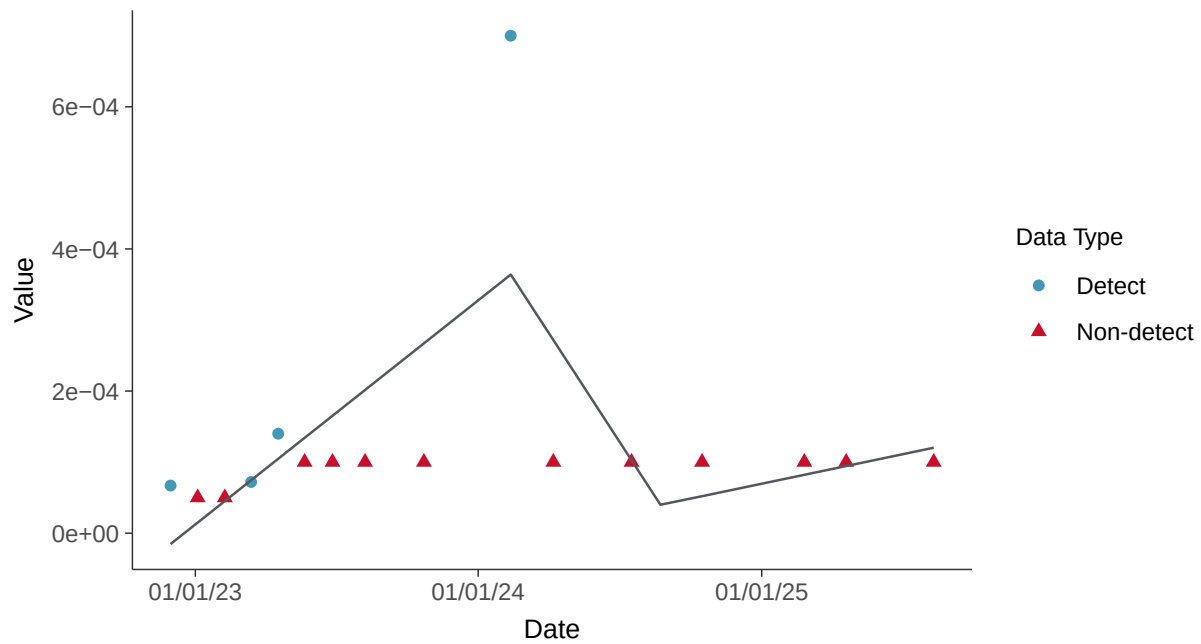


Trend Regression: Piecewise Linear-Linear

Antimony, MW-32 (mg/L)

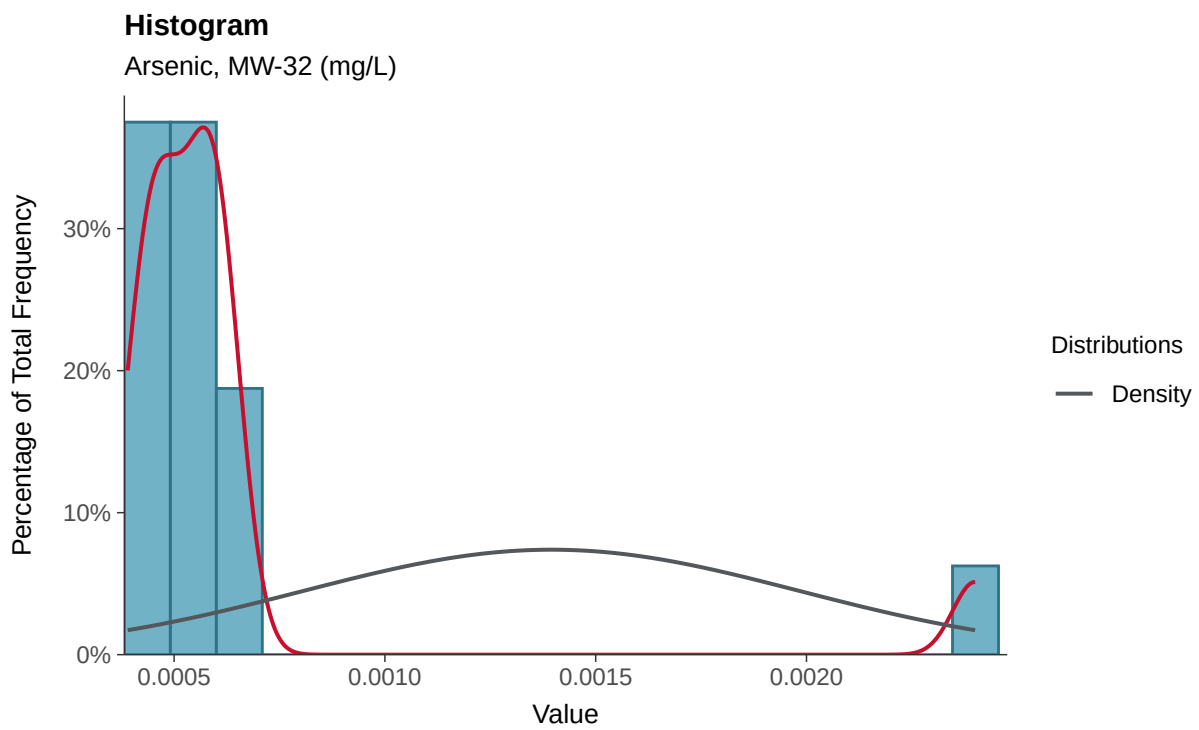
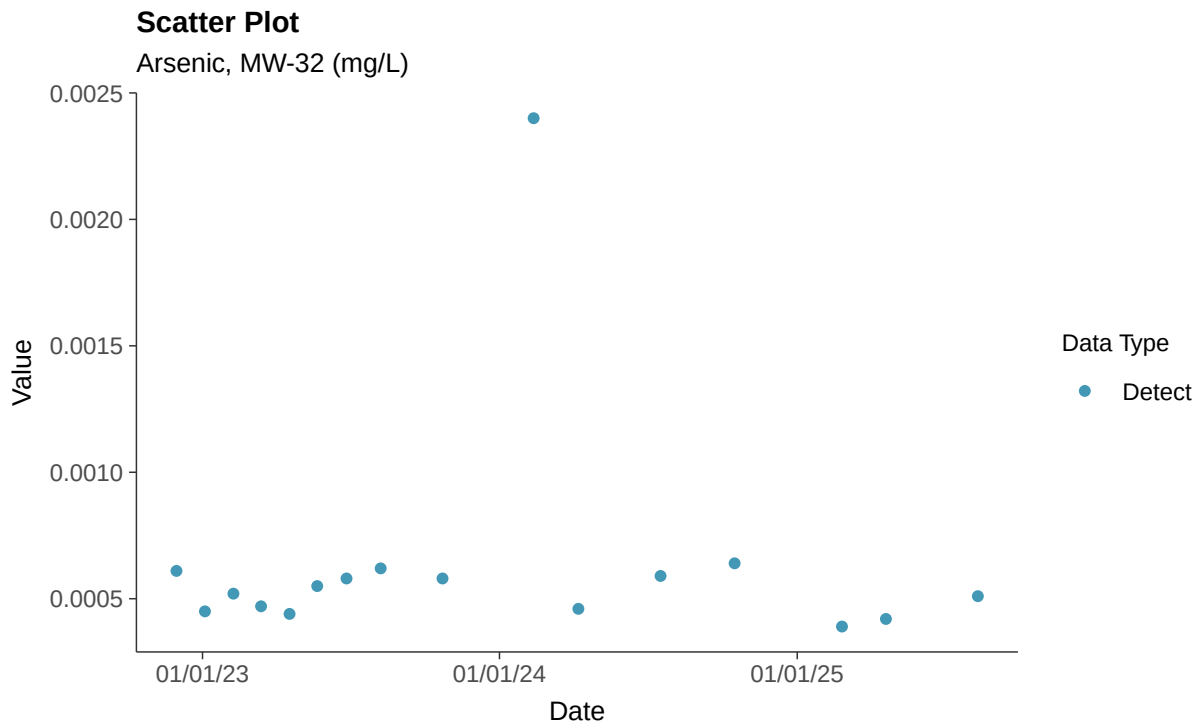


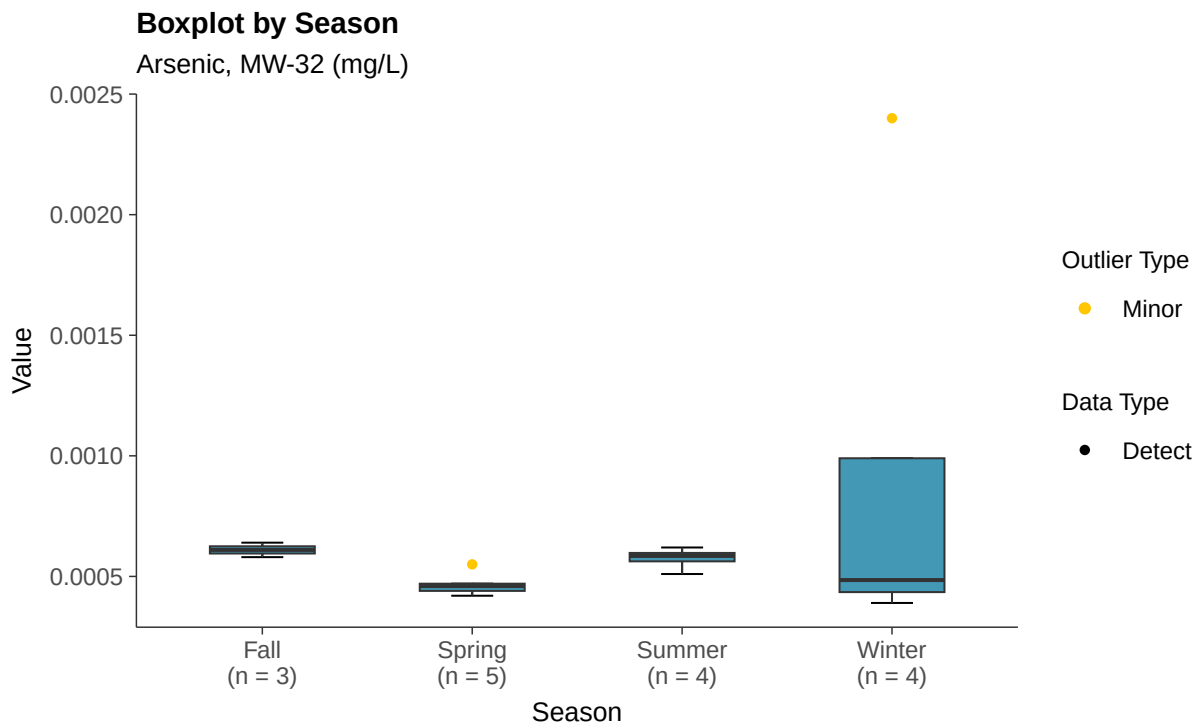
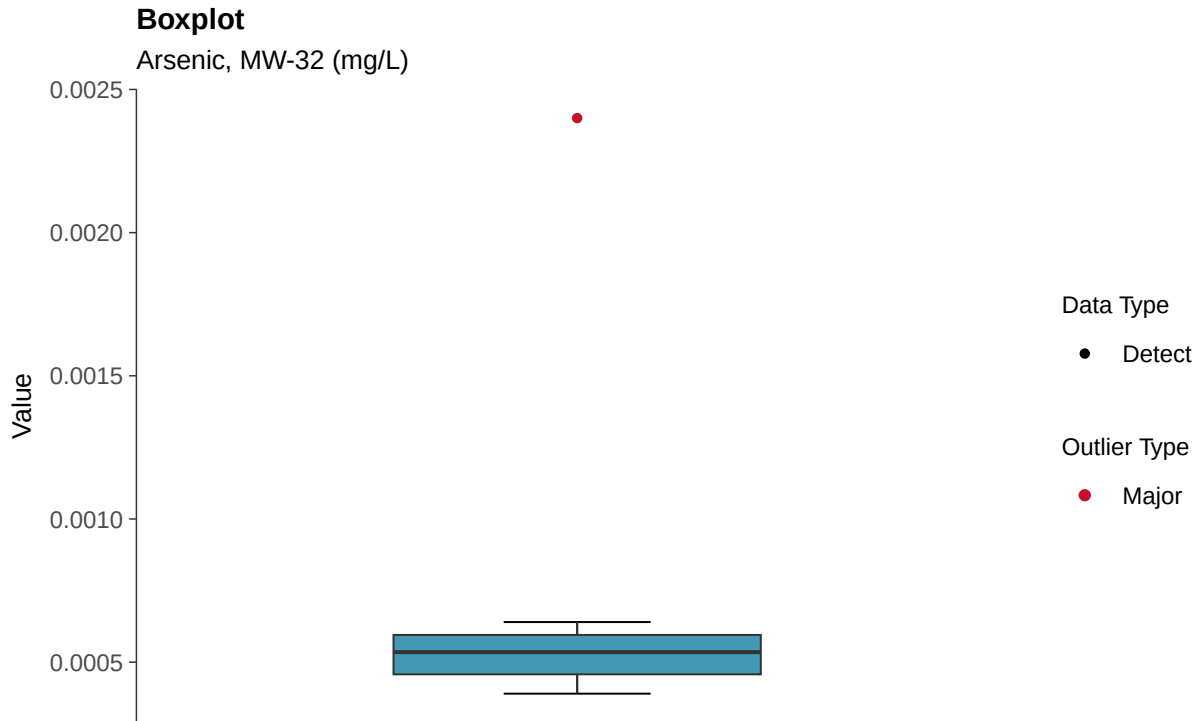
Antimony, MW-32 (mg/L)



Appendix IV: Arsenic, MW-32

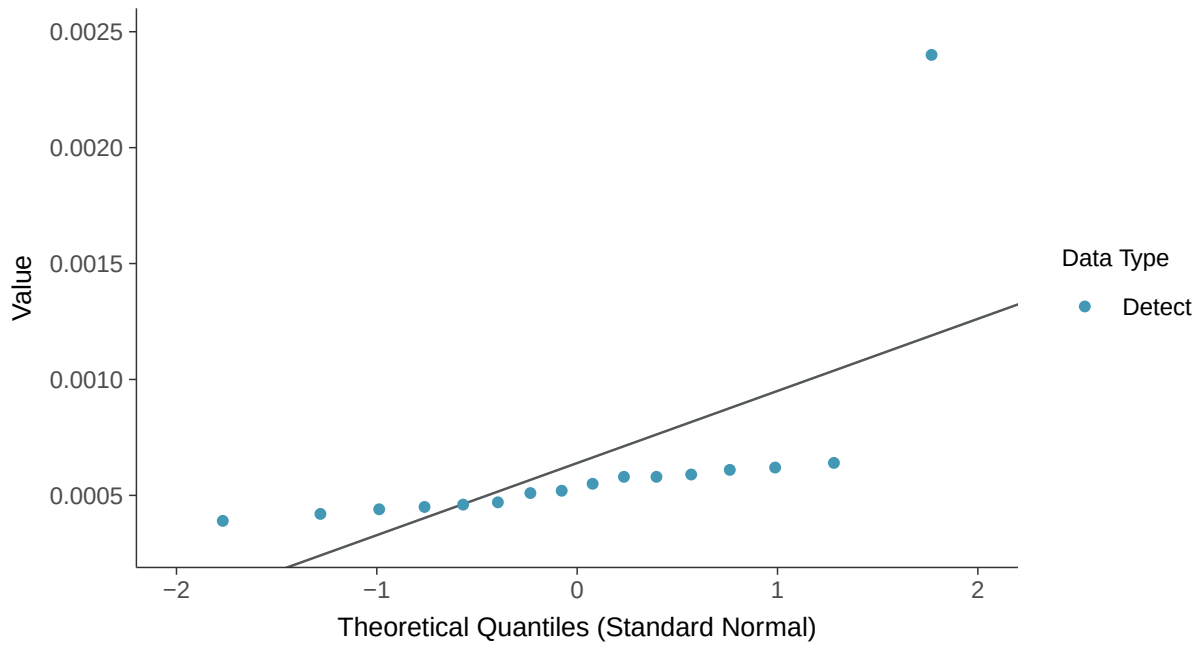
ID: 42_1_4_102





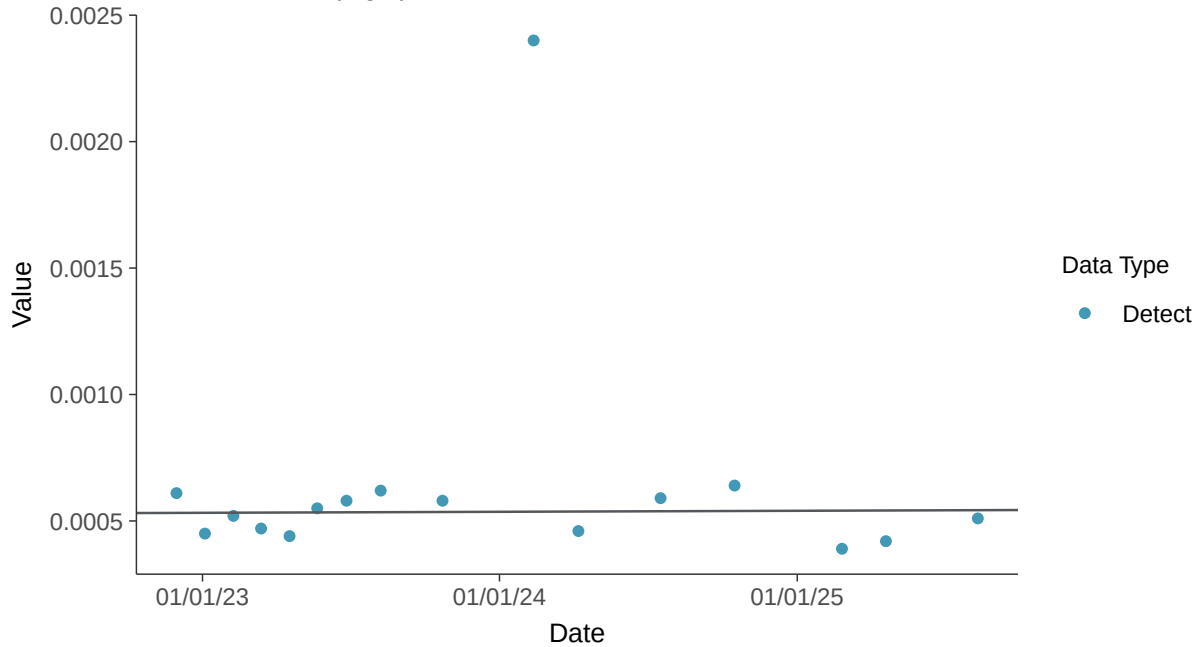
Normal Q-Q plot

Arsenic, MW-32 (mg/L)



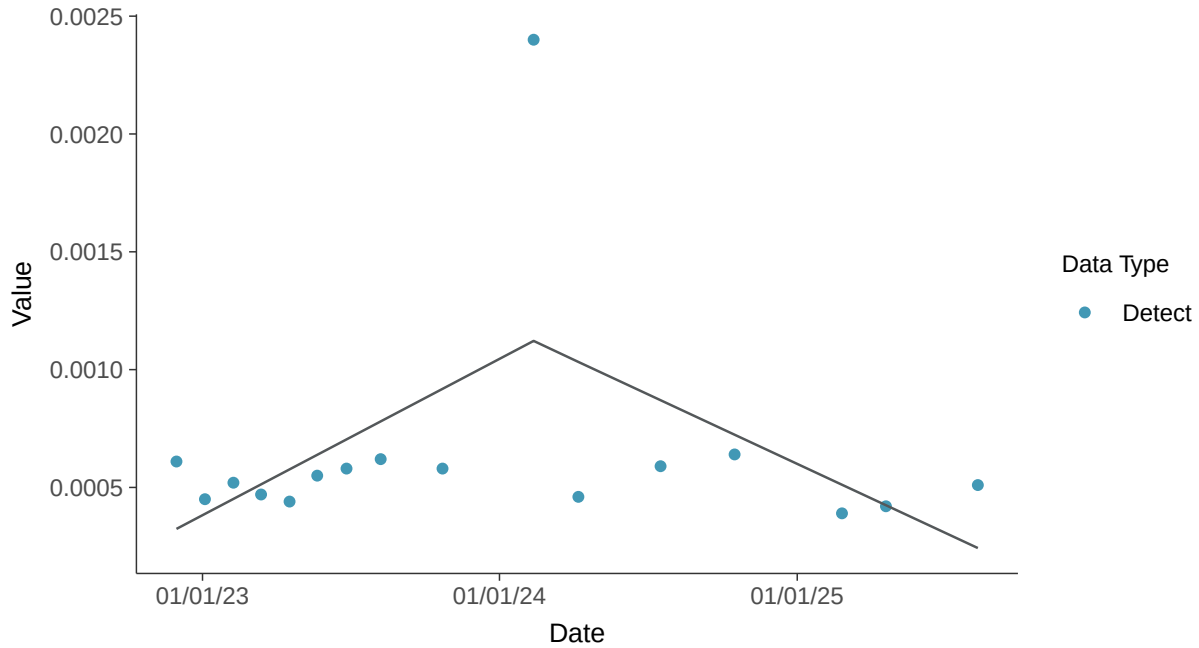
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-32 (mg/L)



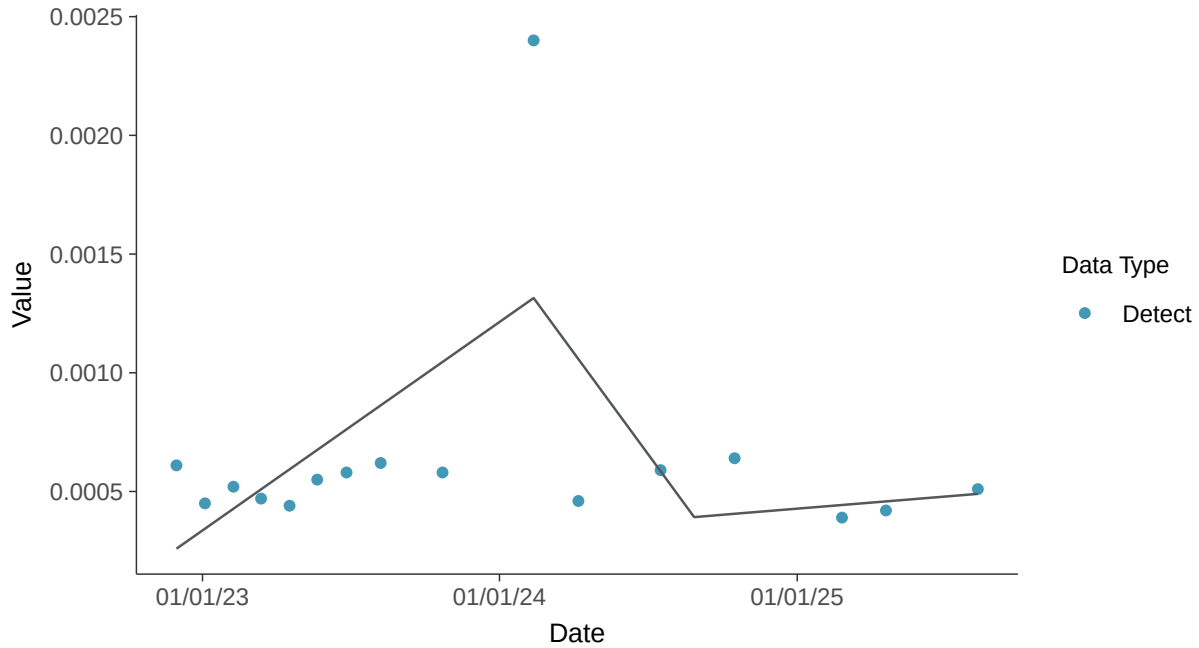
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-32 (mg/L)



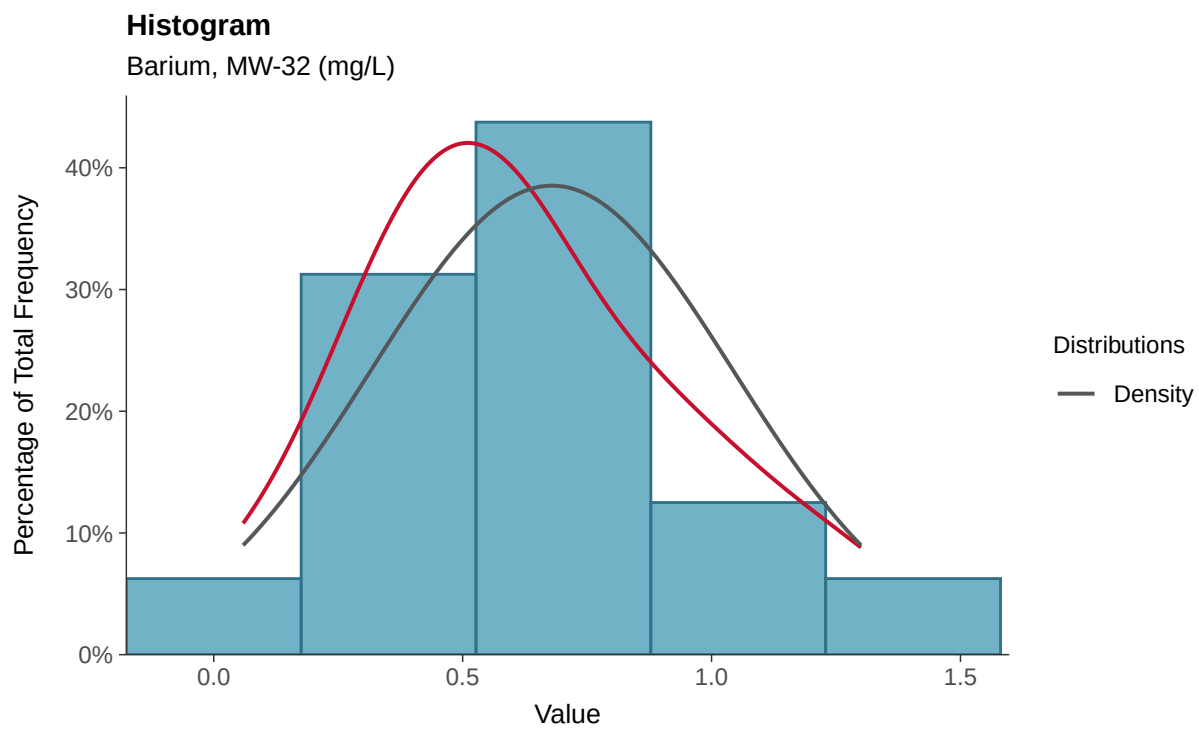
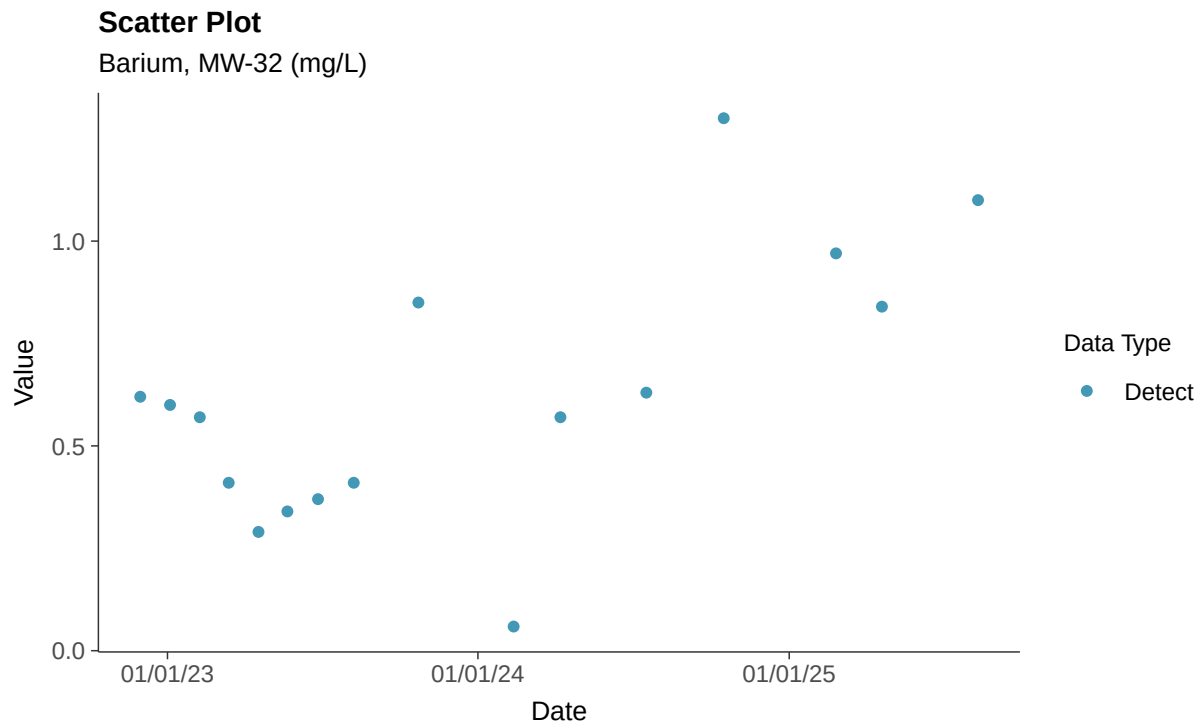
Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-32 (mg/L)



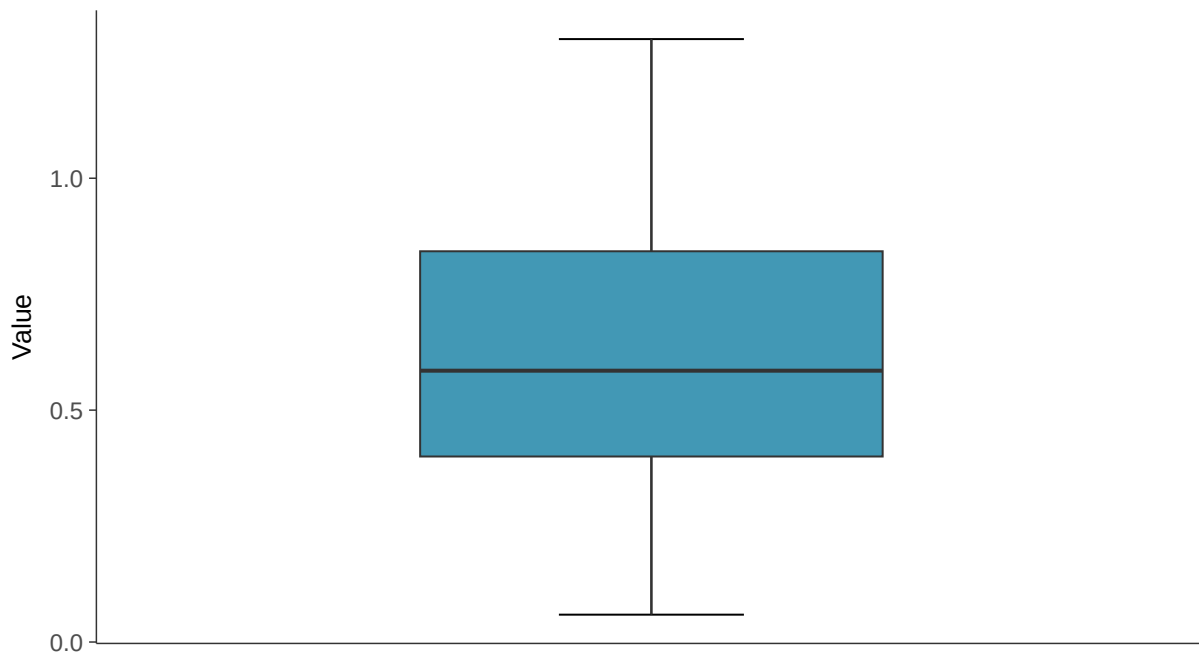
Appendix IV: Barium, MW-32

ID: 42_1_4_103



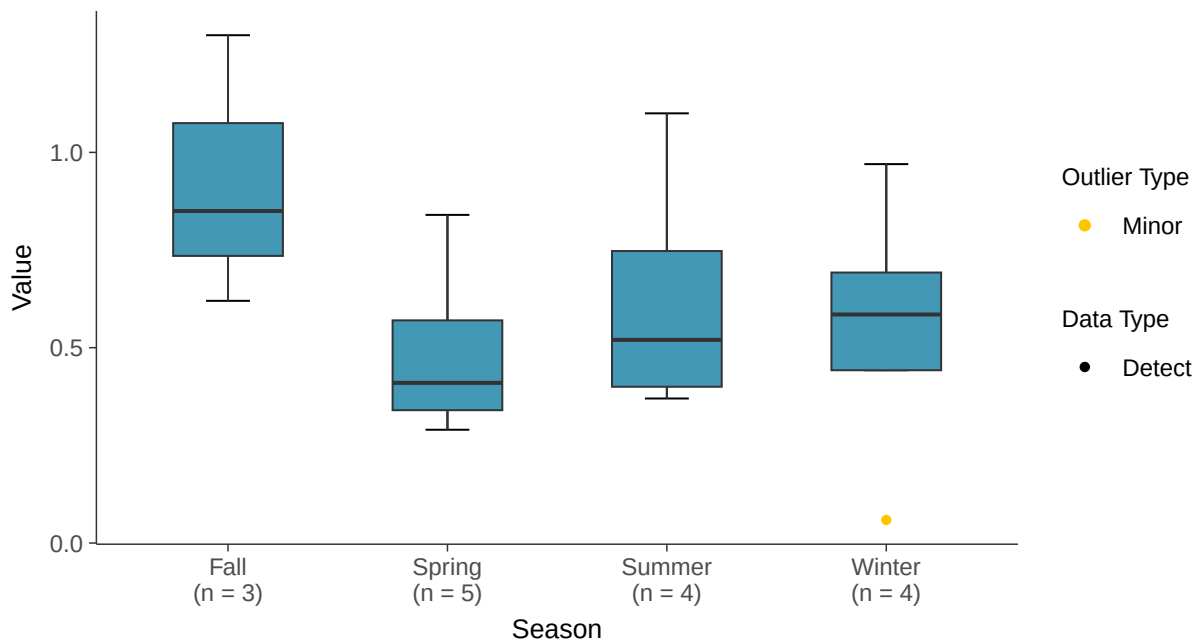
Boxplot

Barium, MW-32 (mg/L)

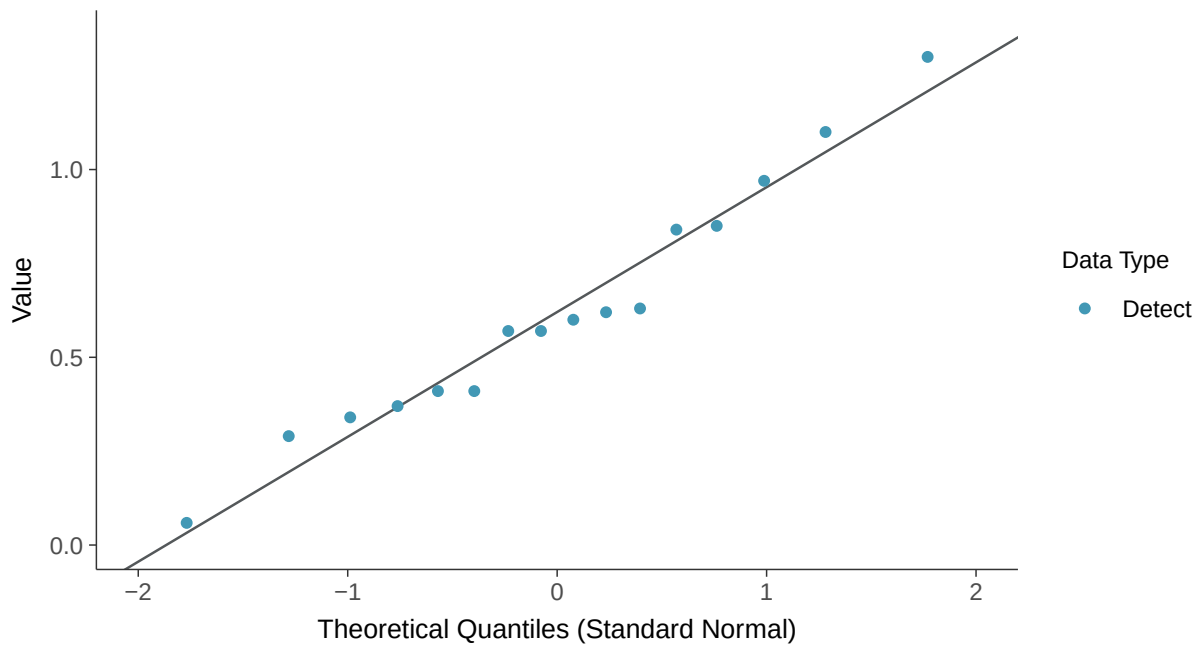


Boxplot by Season

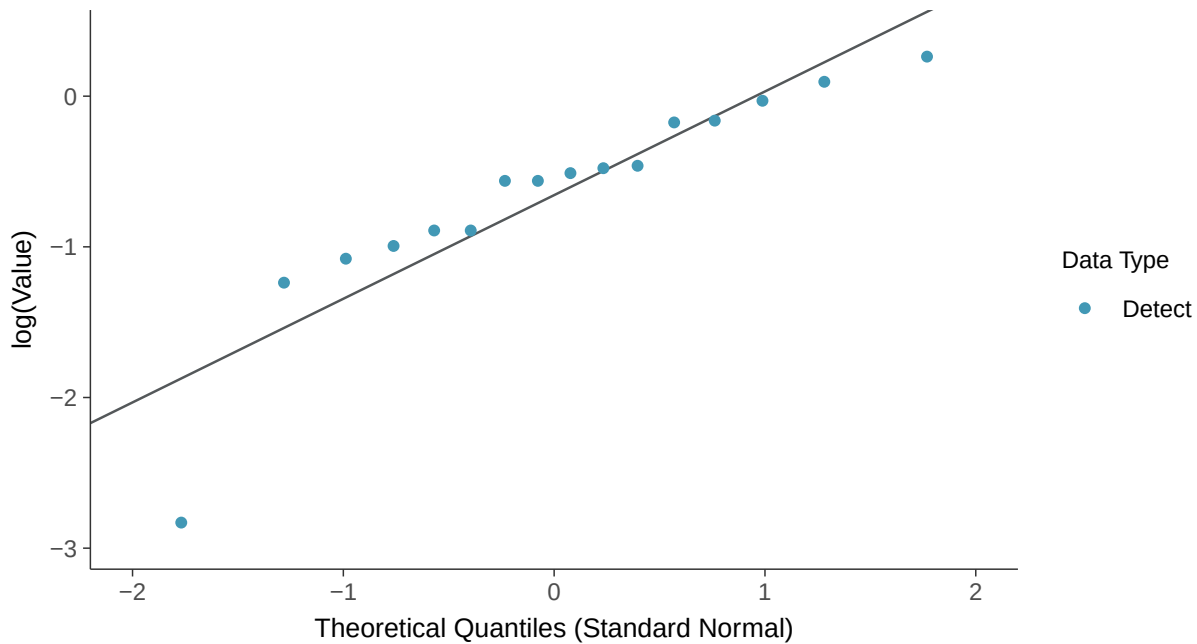
Barium, MW-32 (mg/L)



Normal Q-Q plot
Barium, MW-32 (mg/L)

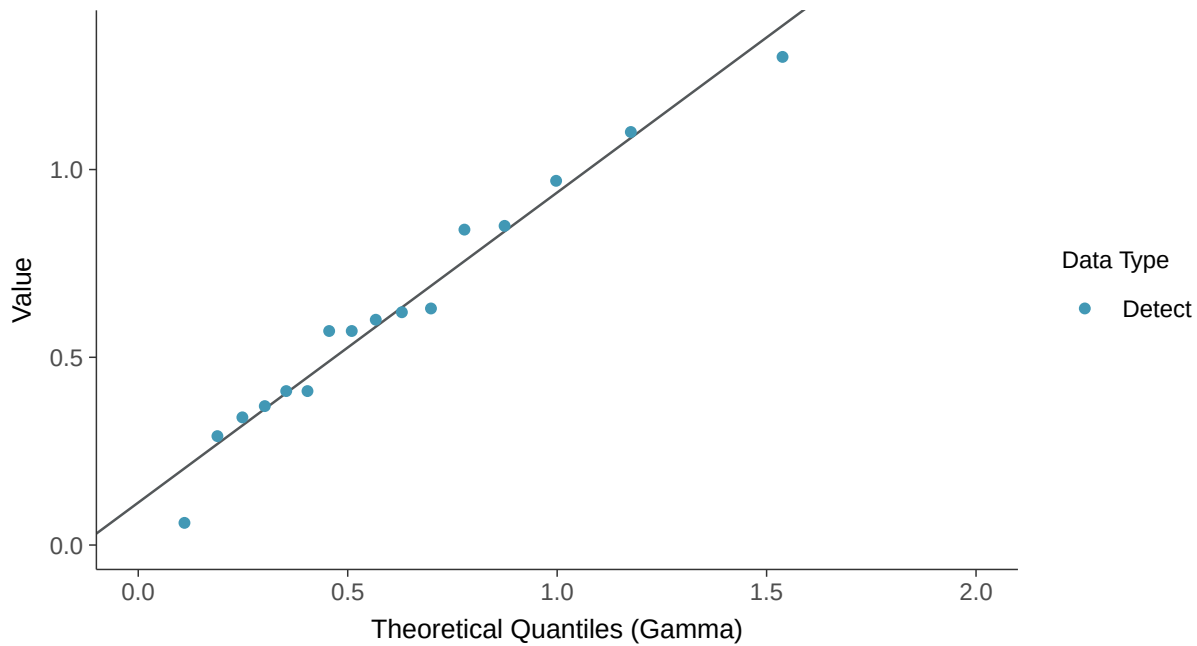


Lognormal Q-Q plot
Barium, MW-32 (mg/L)



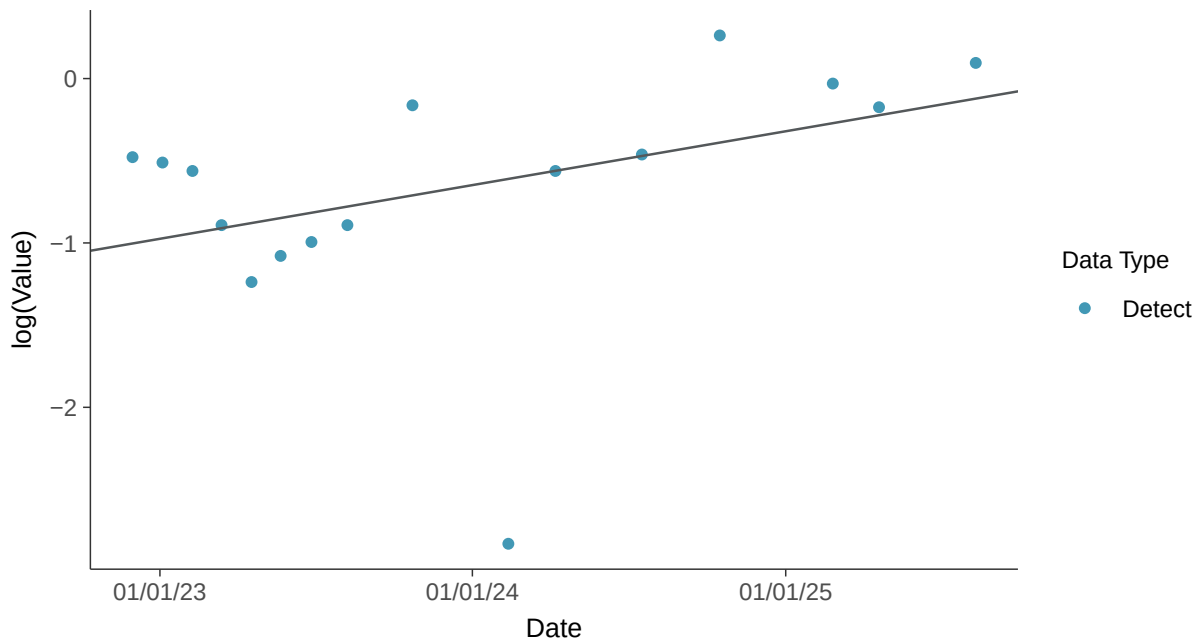
Gamma Q-Q plot

Barium, MW-32 (mg/L)



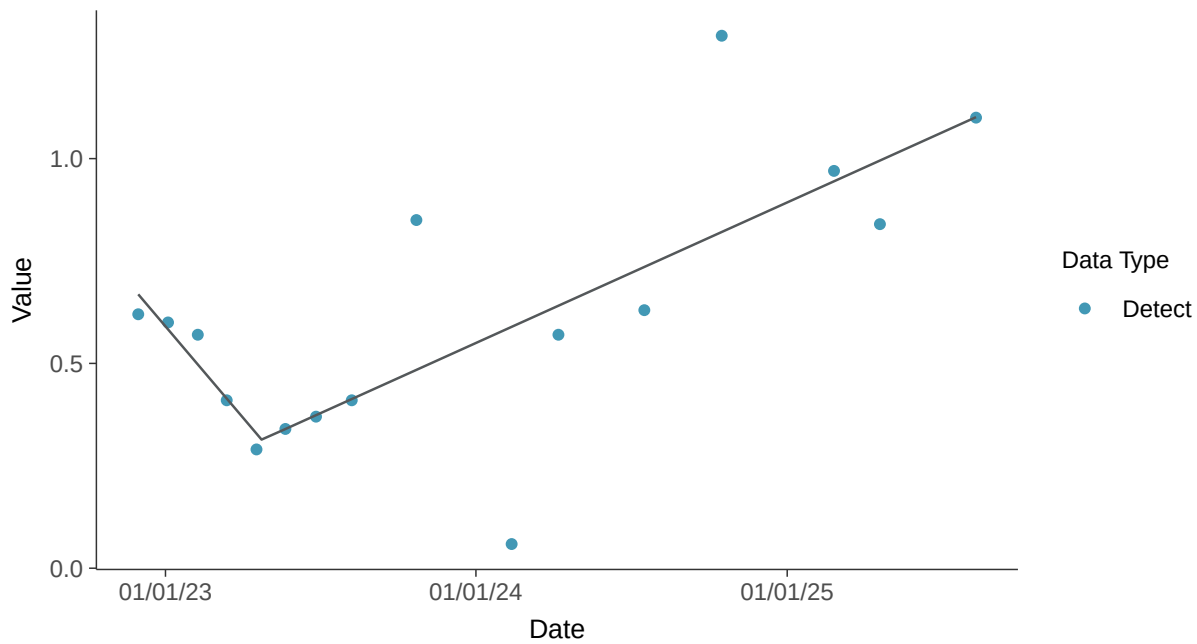
Trend Regression: Lognormal MLE

Barium, MW-32 (mg/L)



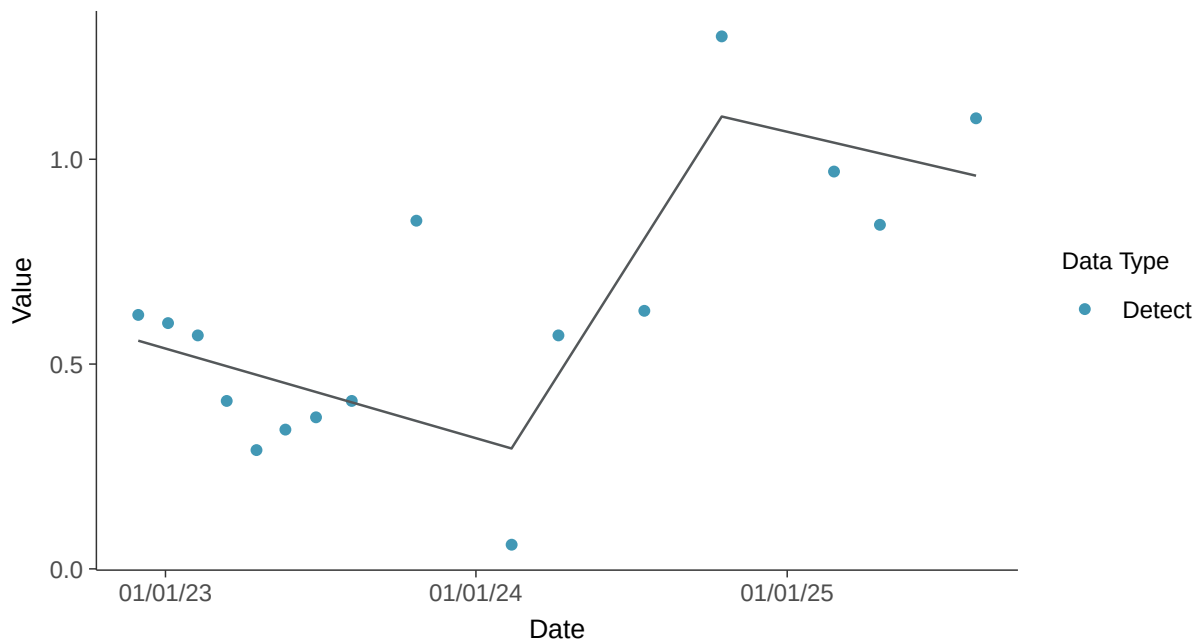
Trend Regression: Piecewise Linear-Linear

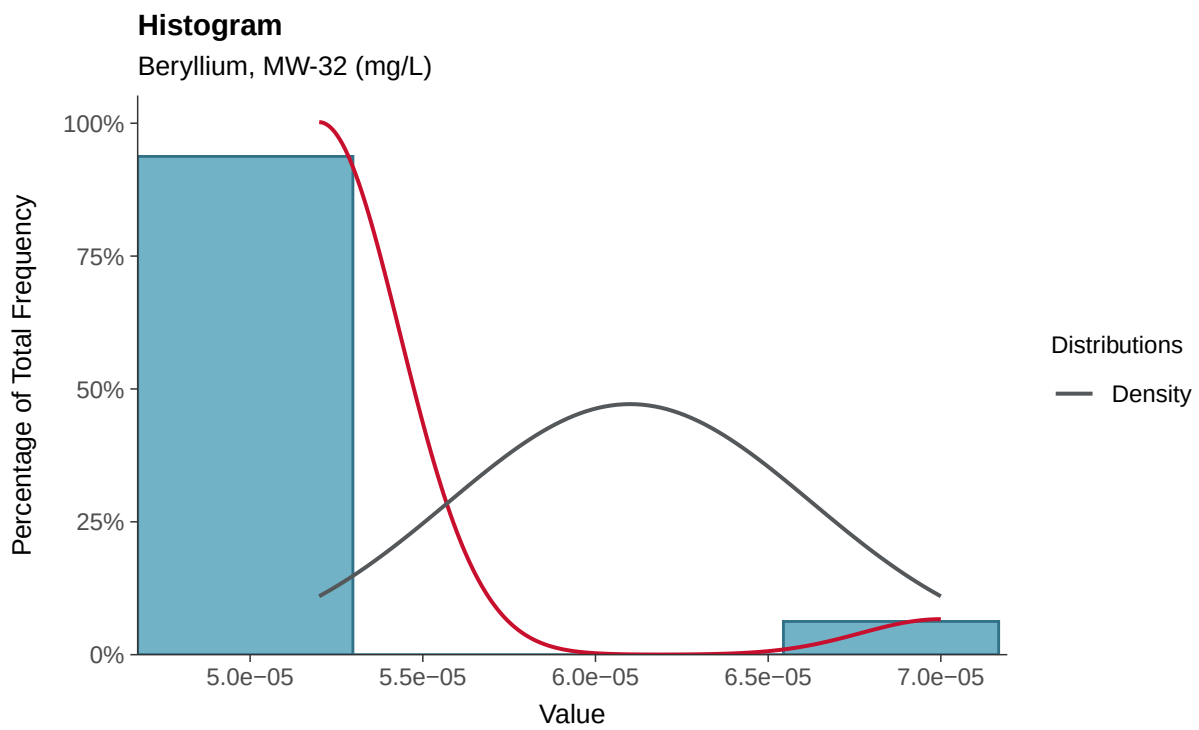
Barium, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

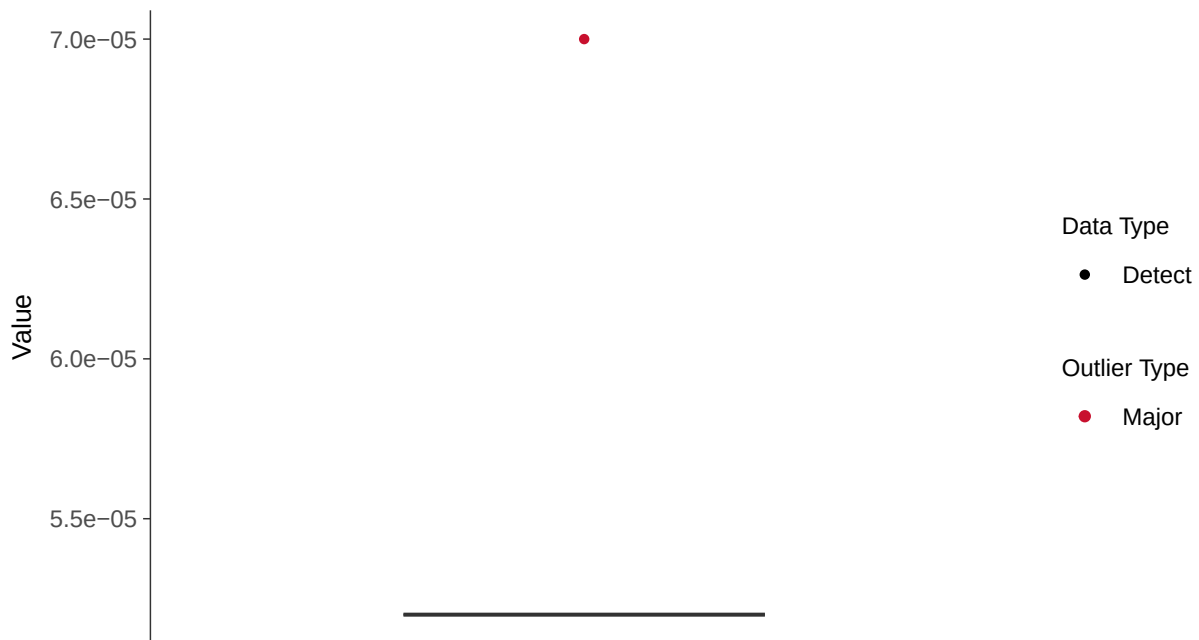
Barium, MW-32 (mg/L)





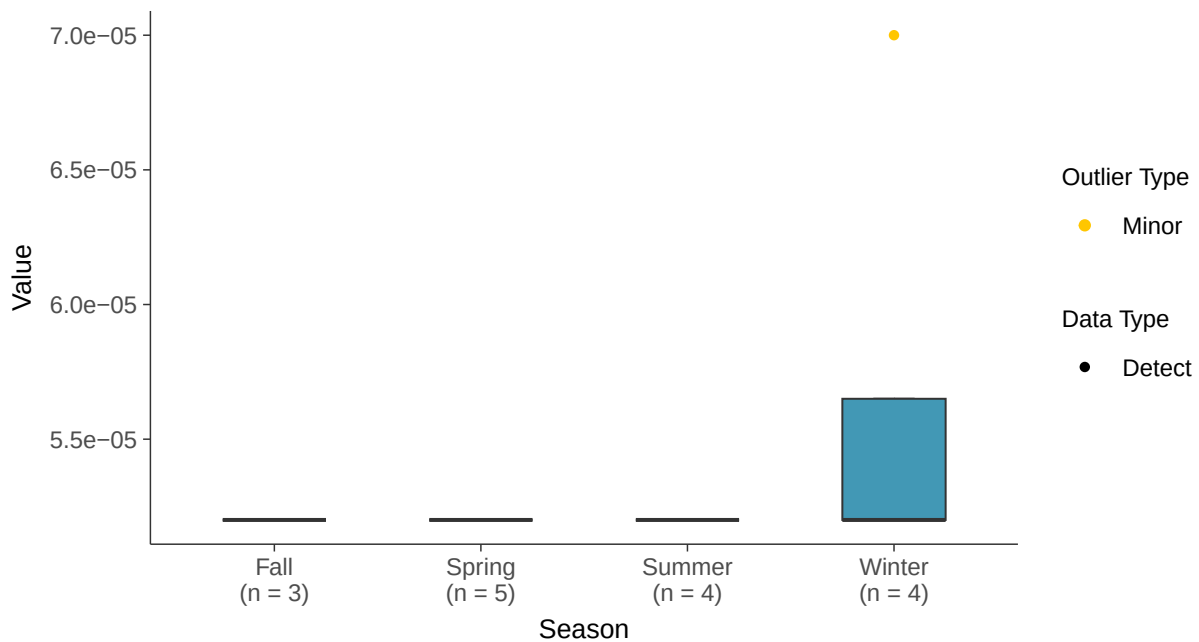
Boxplot

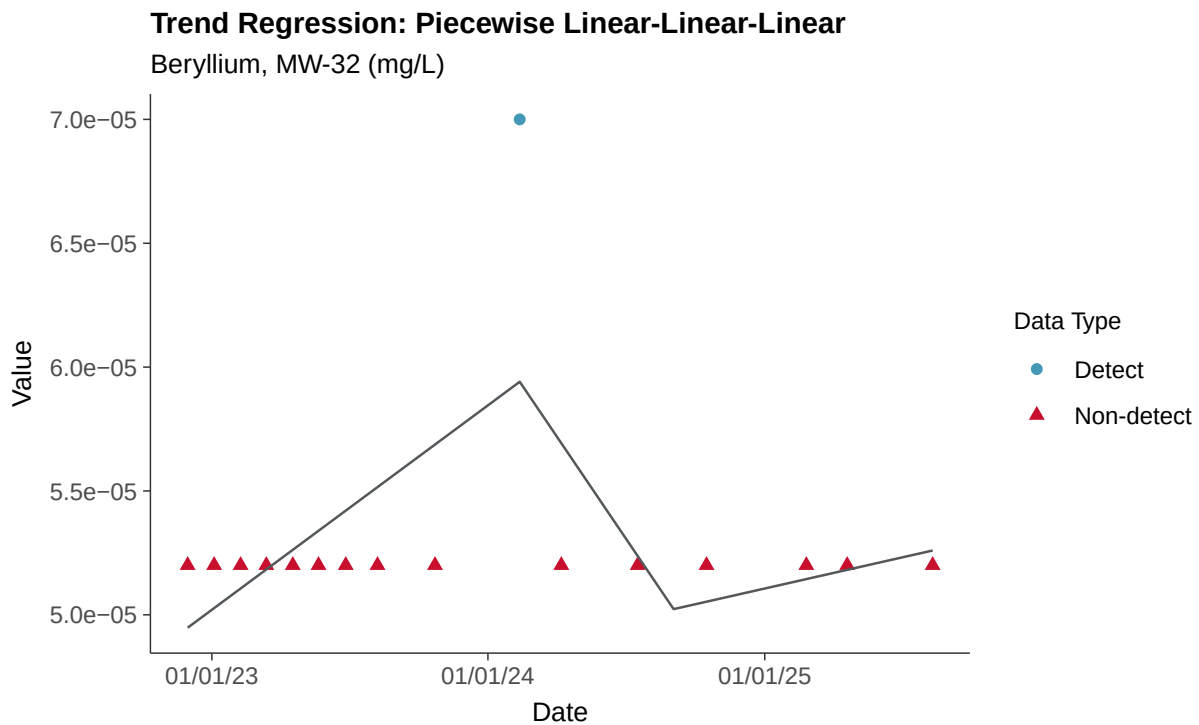
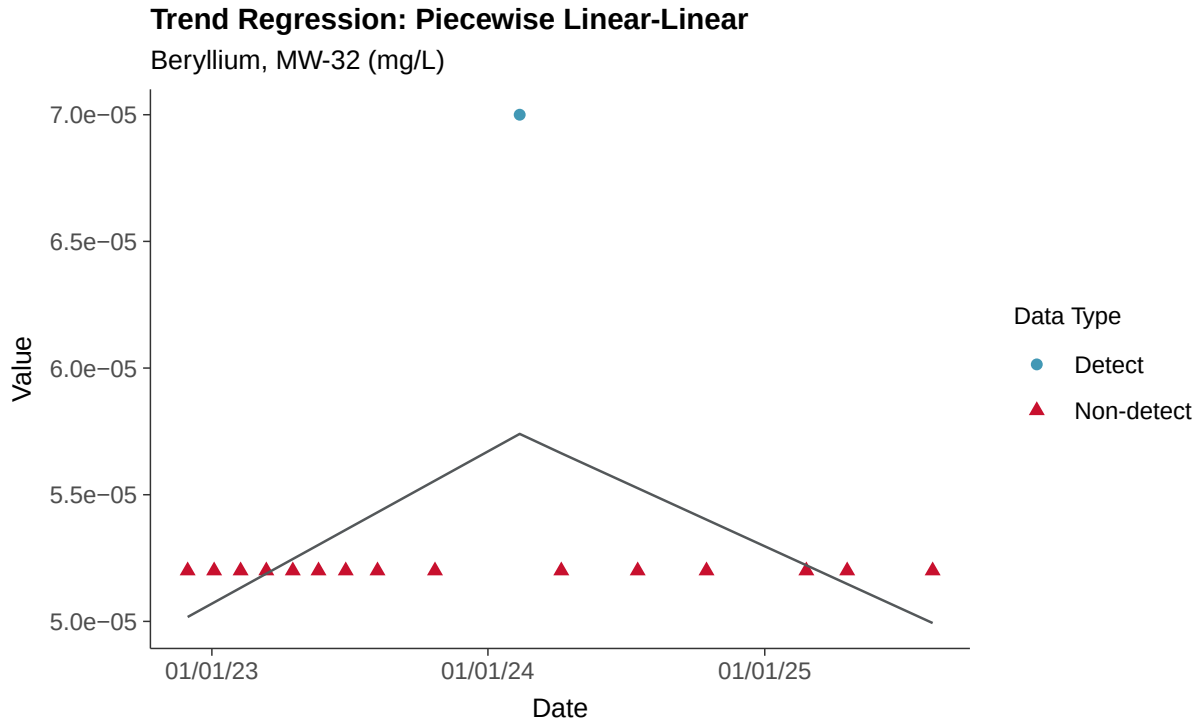
Beryllium, MW-32 (mg/L)



Boxplot by Season

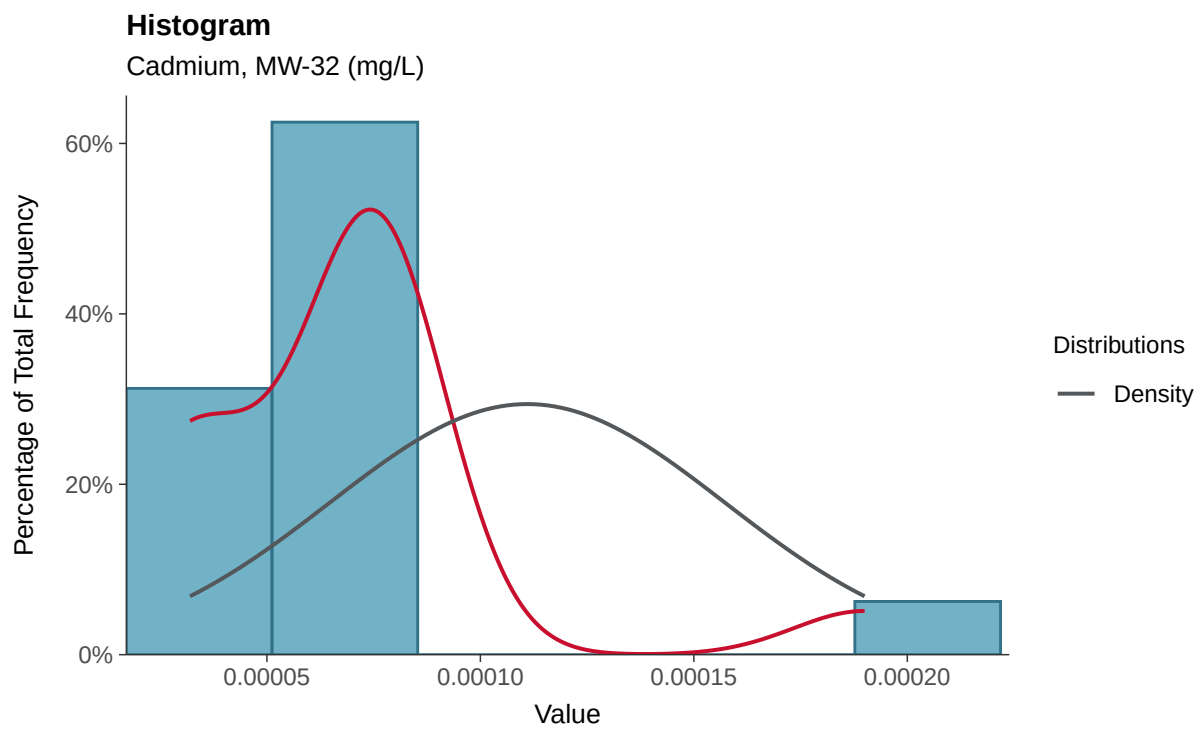
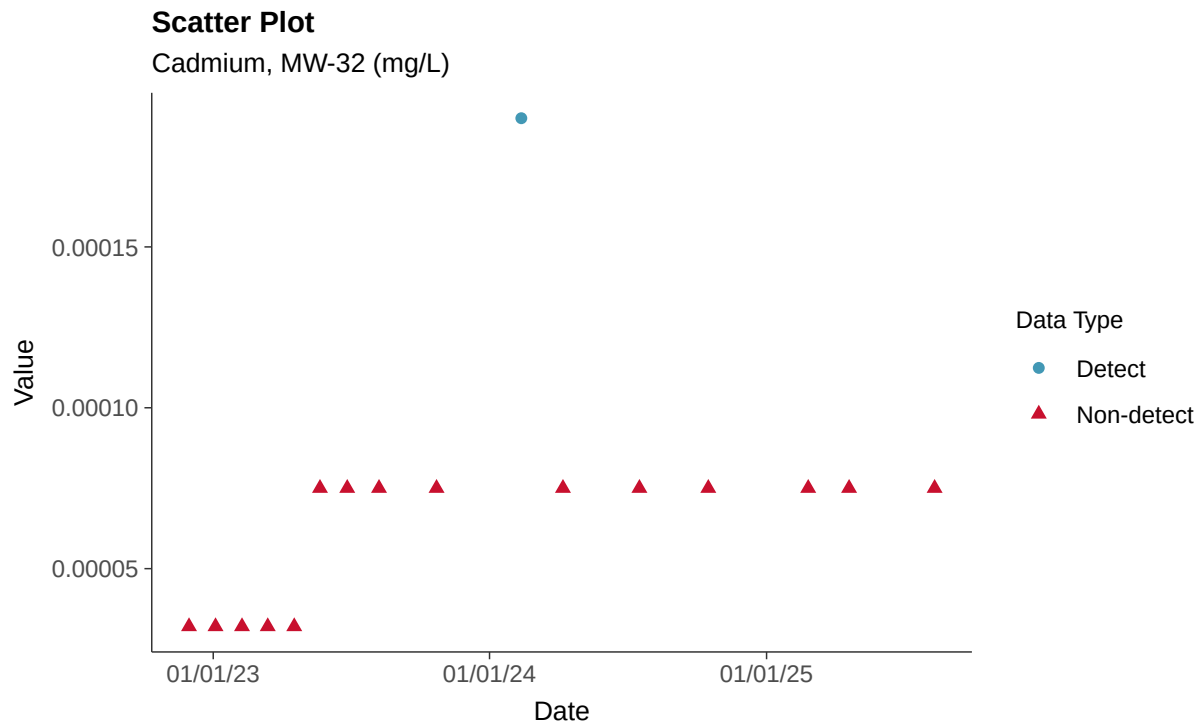
Beryllium, MW-32 (mg/L)





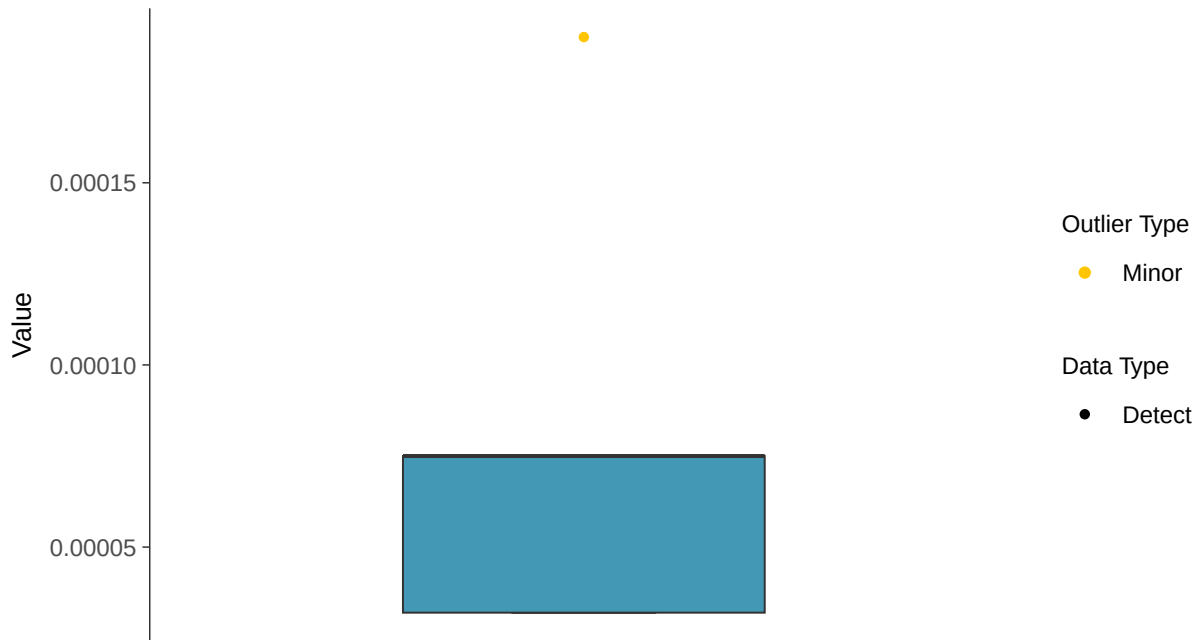
Appendix IV: Cadmium, MW-32

ID: 42_1_4_106



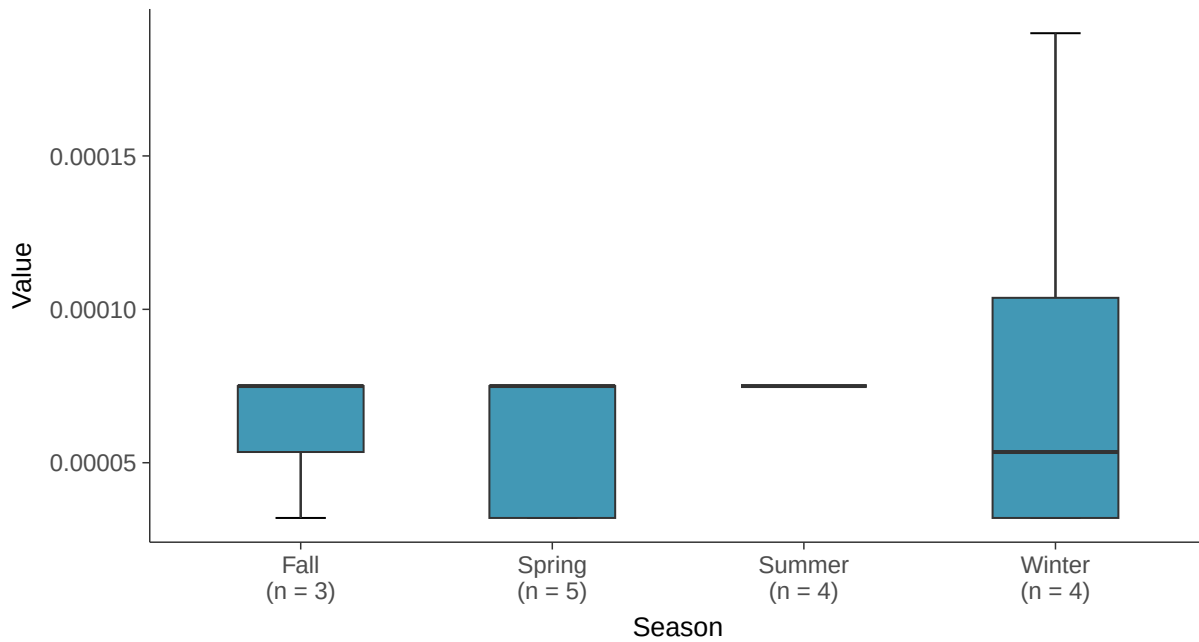
Boxplot

Cadmium, MW-32 (mg/L)



Boxplot by Season

Cadmium, MW-32 (mg/L)

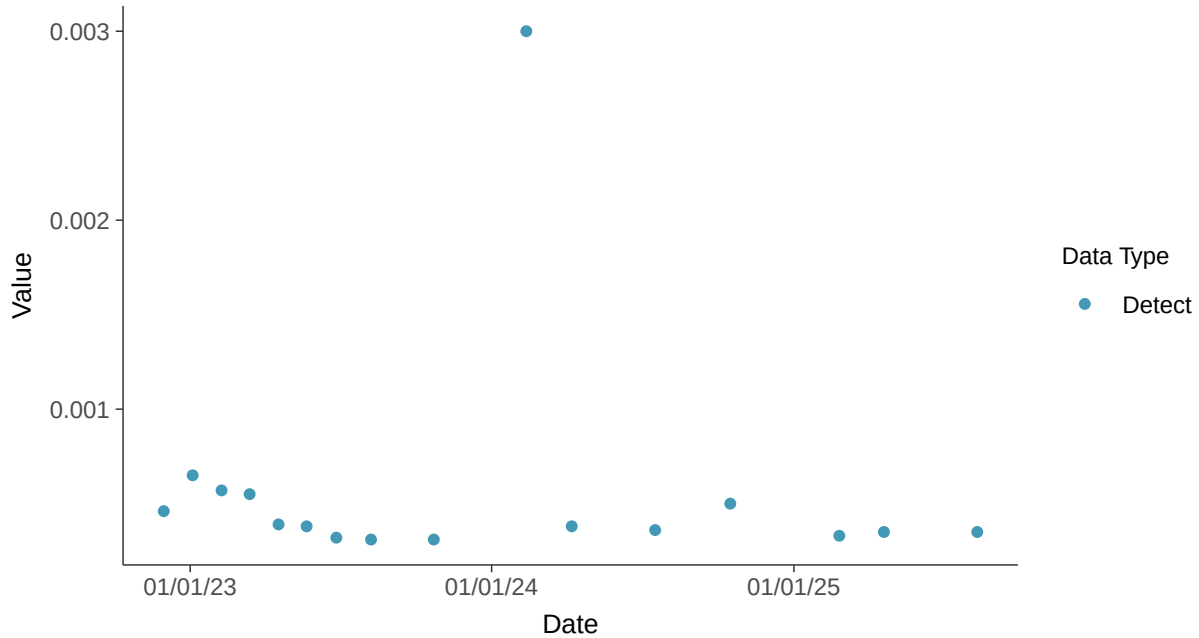


Appendix IV: Chromium, Total, MW-32

ID: 42_1_4_109

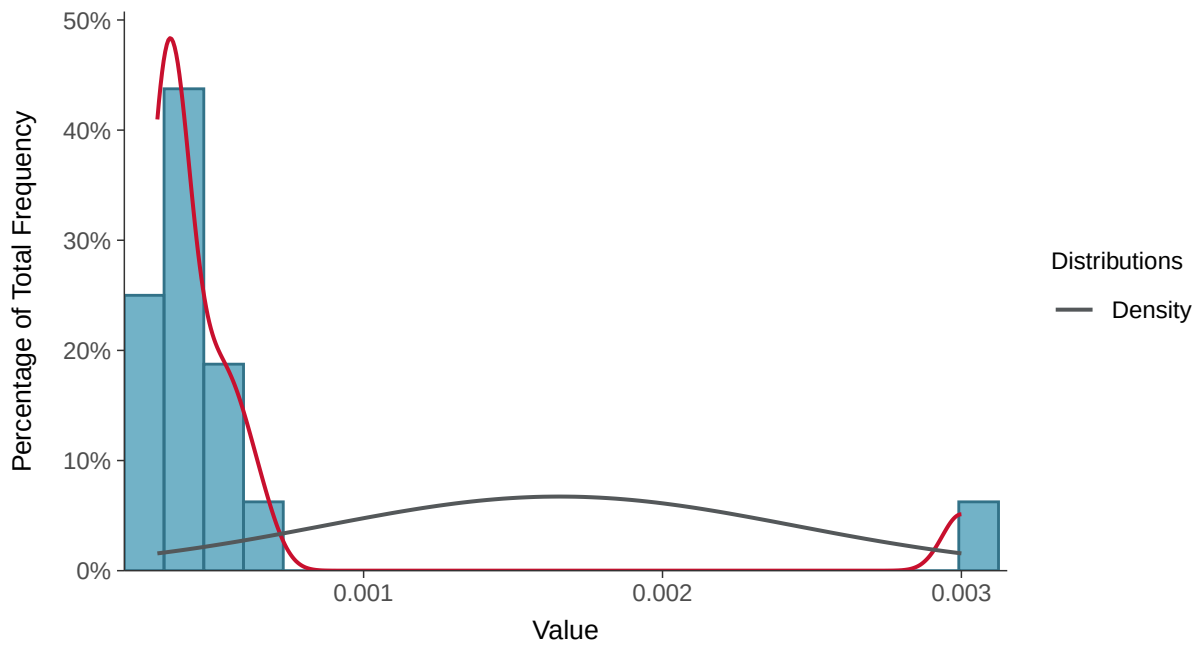
Scatter Plot

Chromium, Total, MW-32 (mg/L)



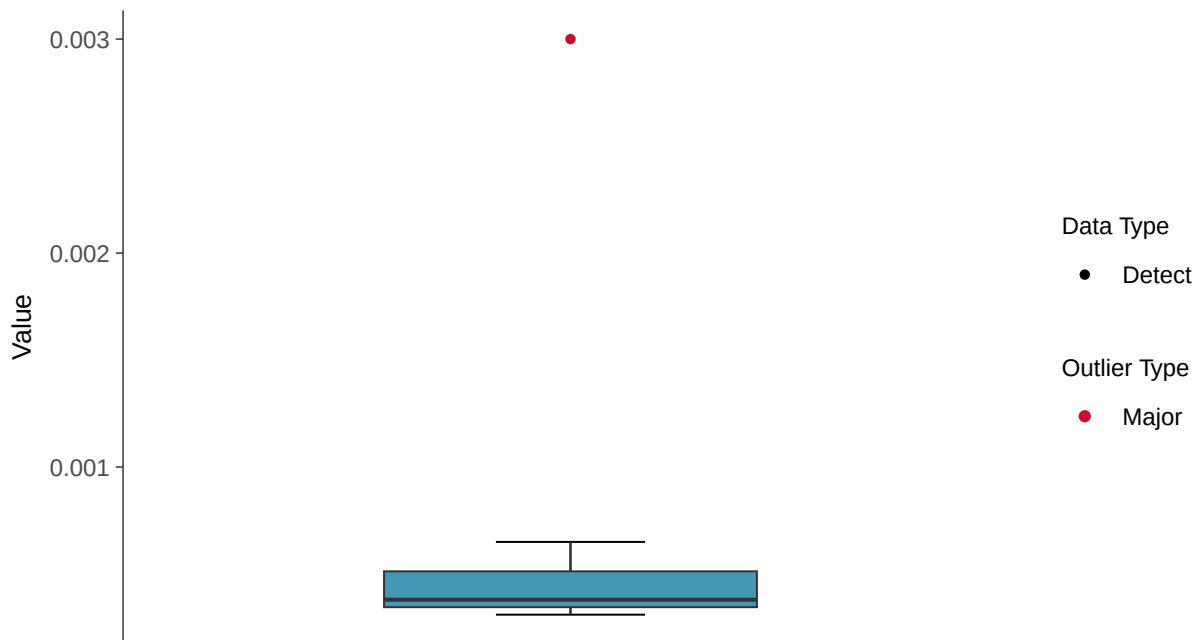
Histogram

Chromium, Total, MW-32 (mg/L)



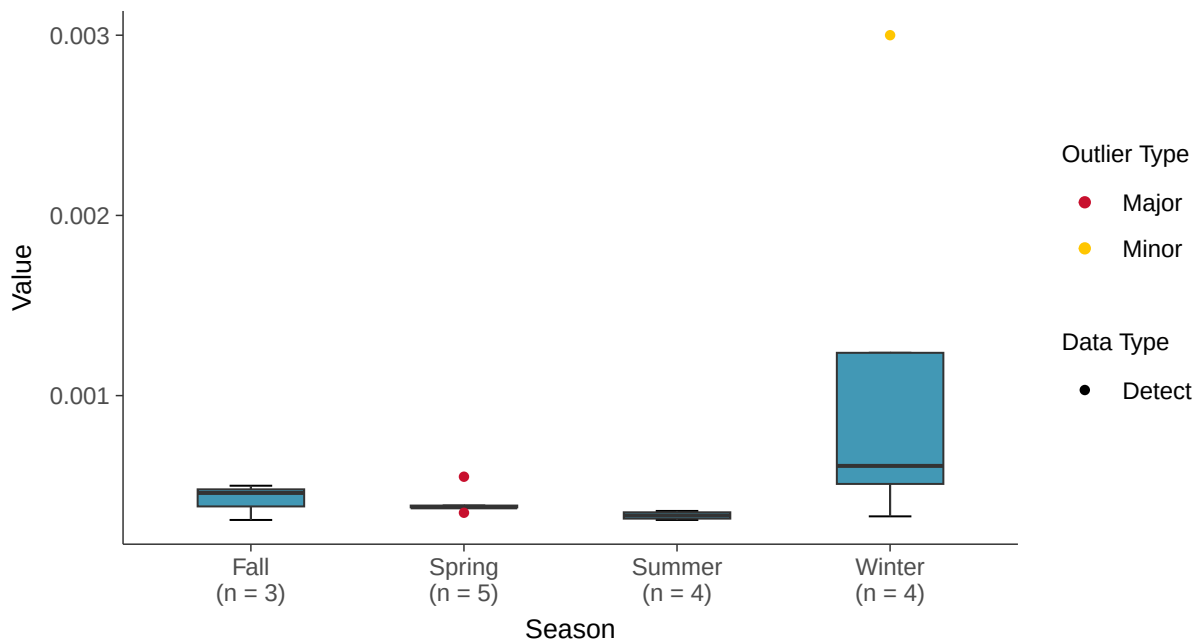
Boxplot

Chromium, Total, MW-32 (mg/L)



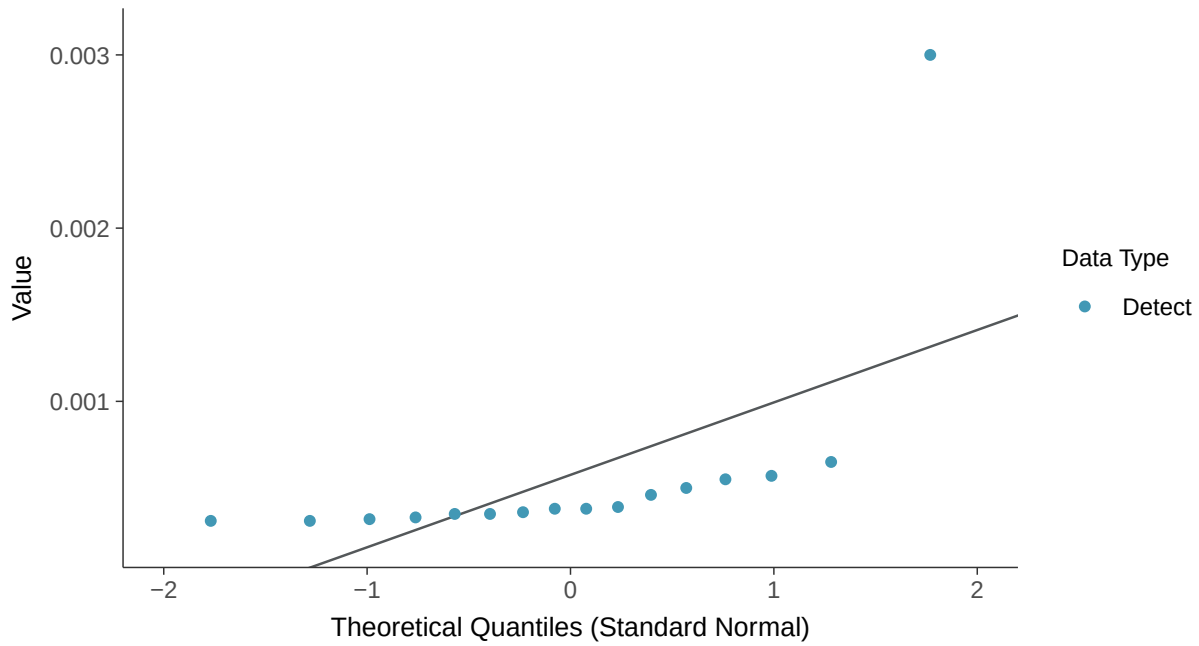
Boxplot by Season

Chromium, Total, MW-32 (mg/L)



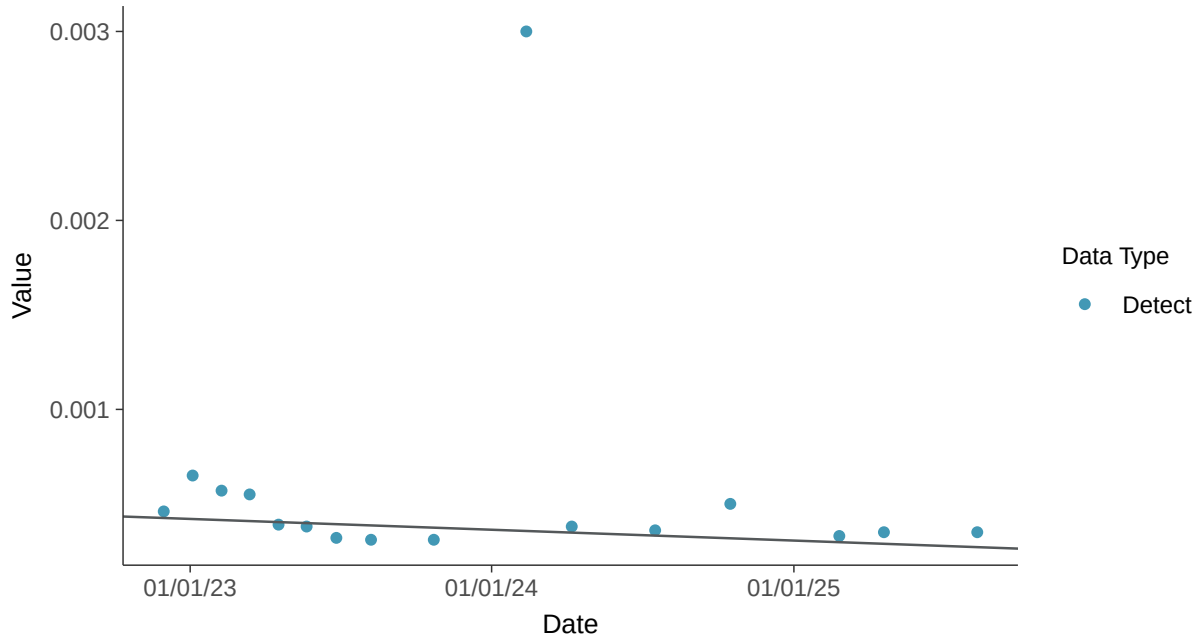
Normal Q-Q plot

Chromium, Total, MW-32 (mg/L)



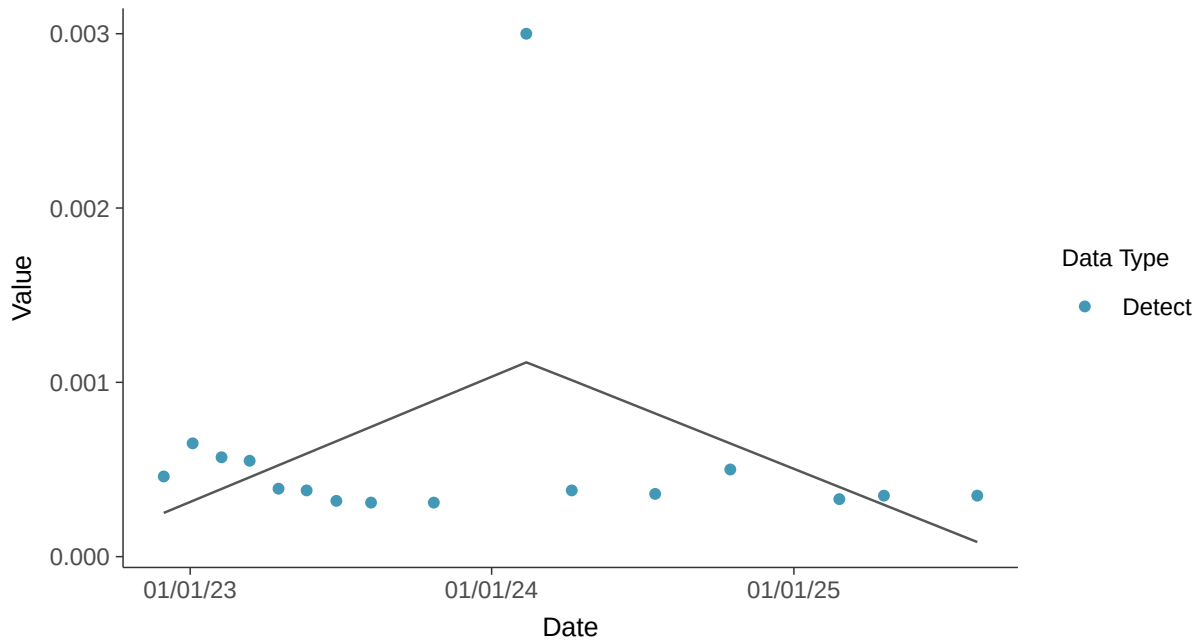
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chromium, Total, MW-32 (mg/L)



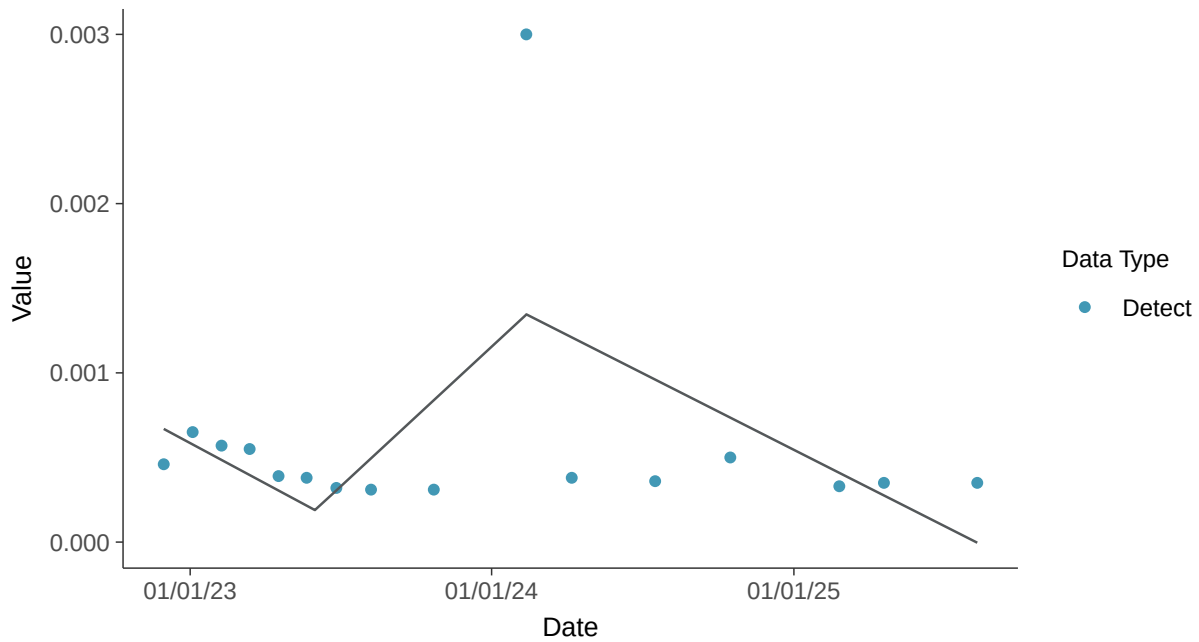
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-32 (mg/L)



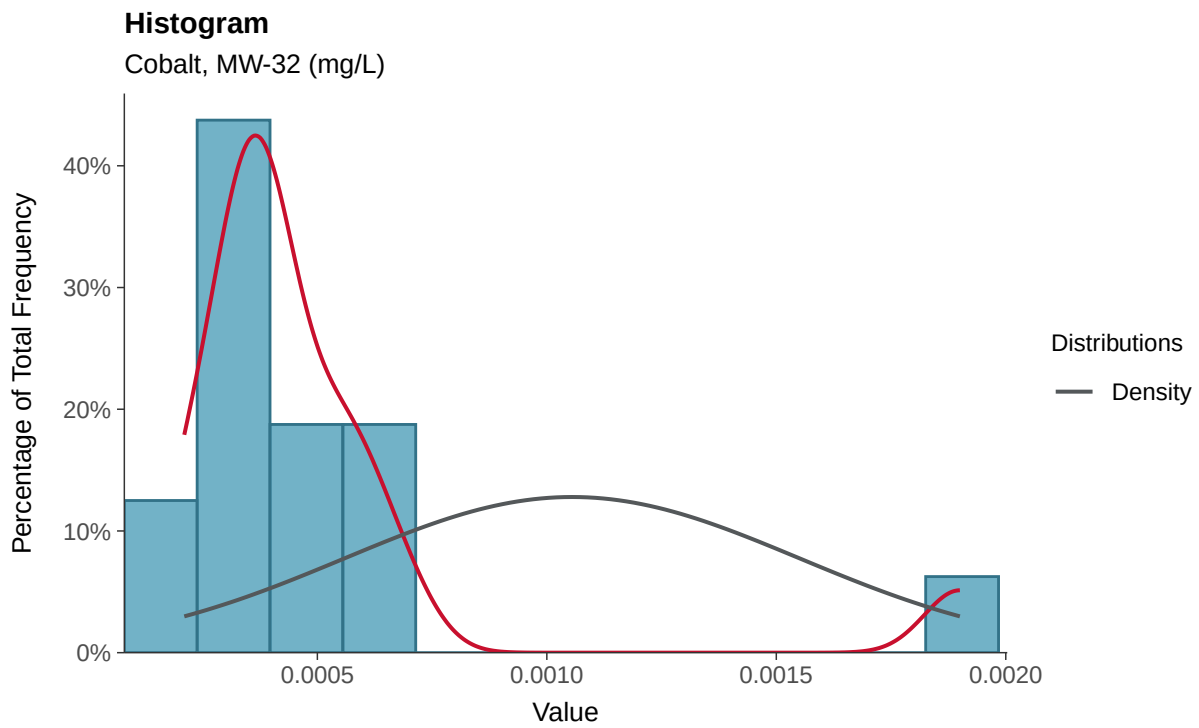
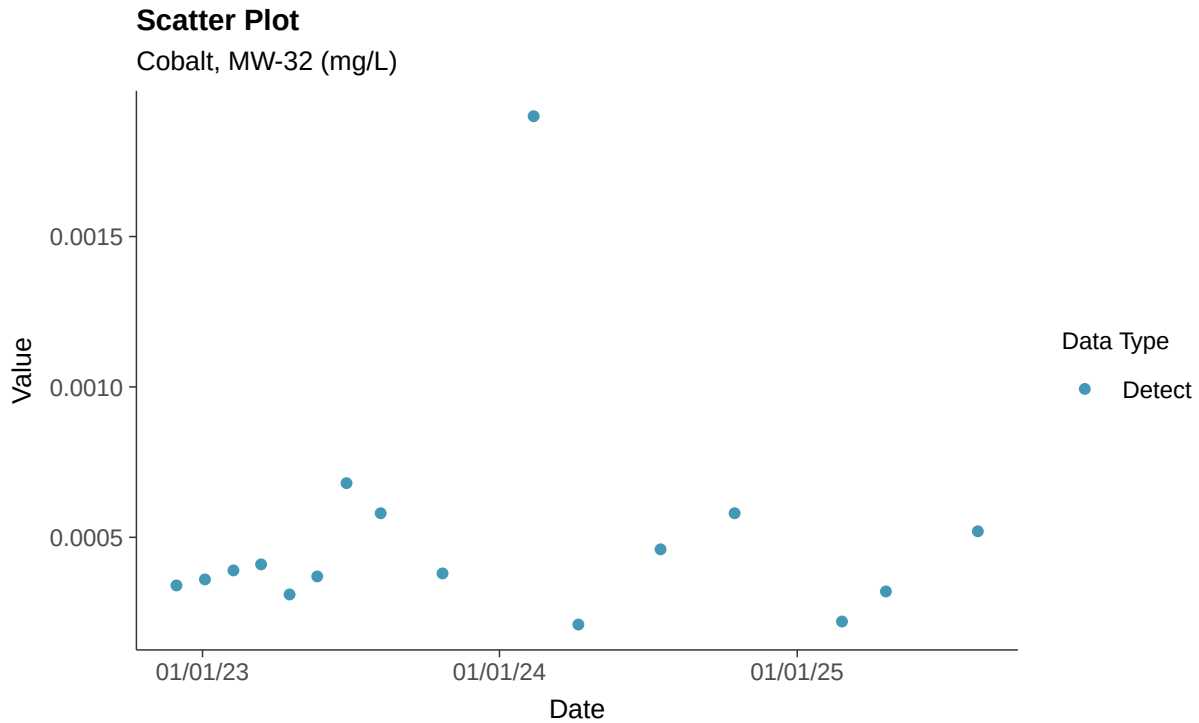
Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-32 (mg/L)



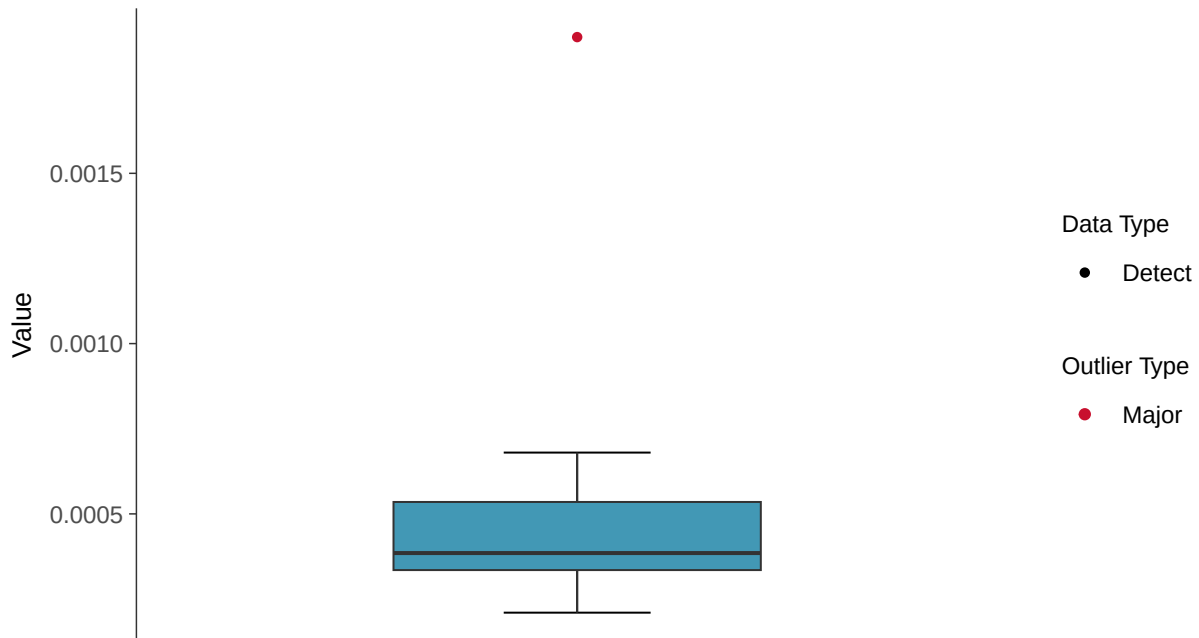
Appendix IV: Cobalt, MW-32

ID: 42_1_4_110



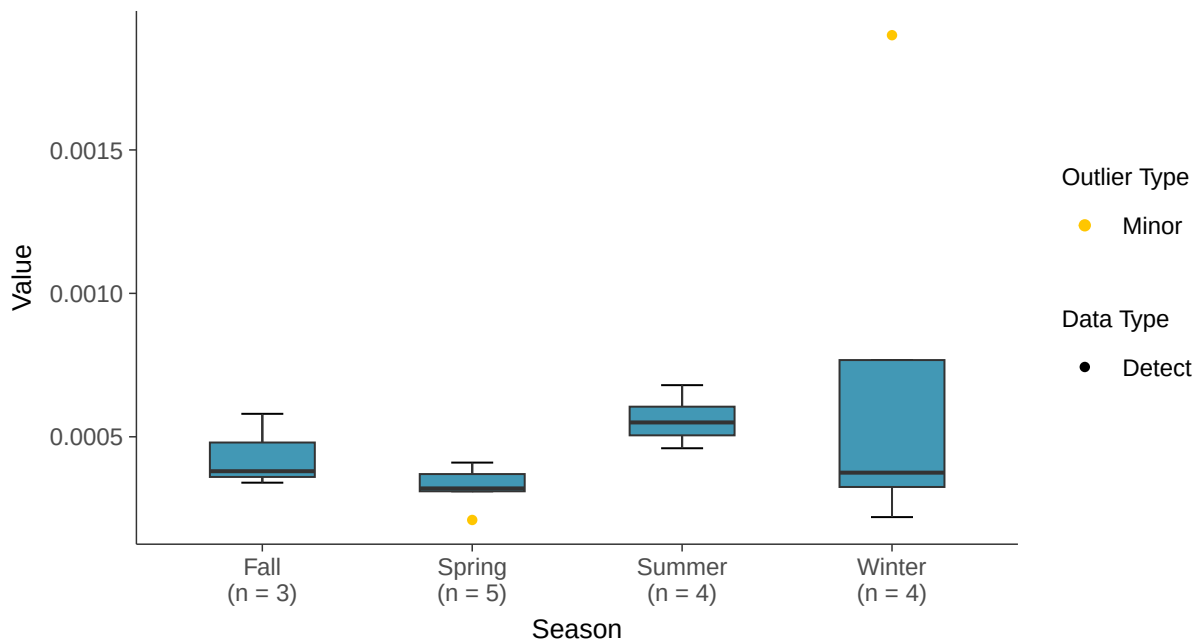
Boxplot

Cobalt, MW-32 (mg/L)



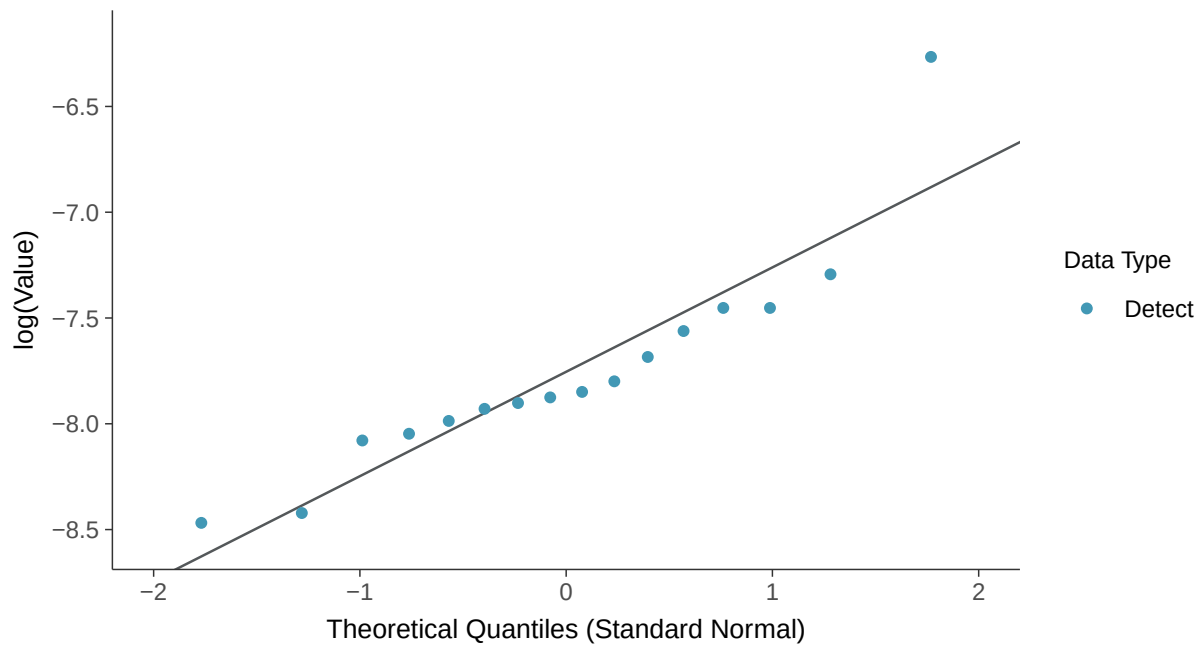
Boxplot by Season

Cobalt, MW-32 (mg/L)



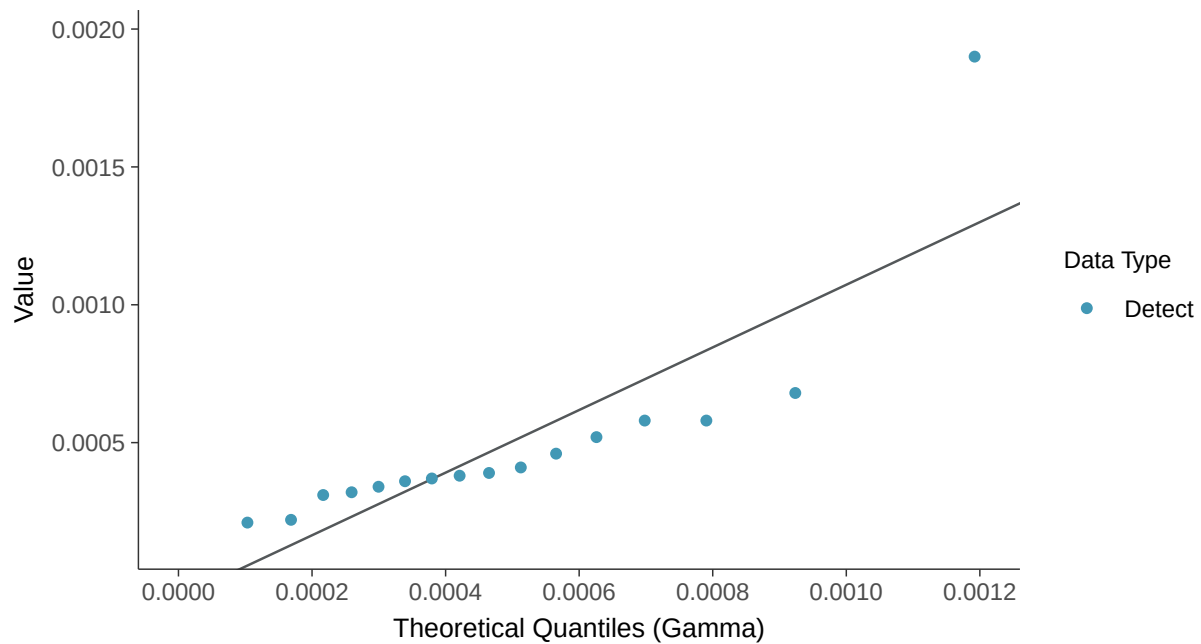
Lognormal Q-Q plot

Cobalt, MW-32 (mg/L)



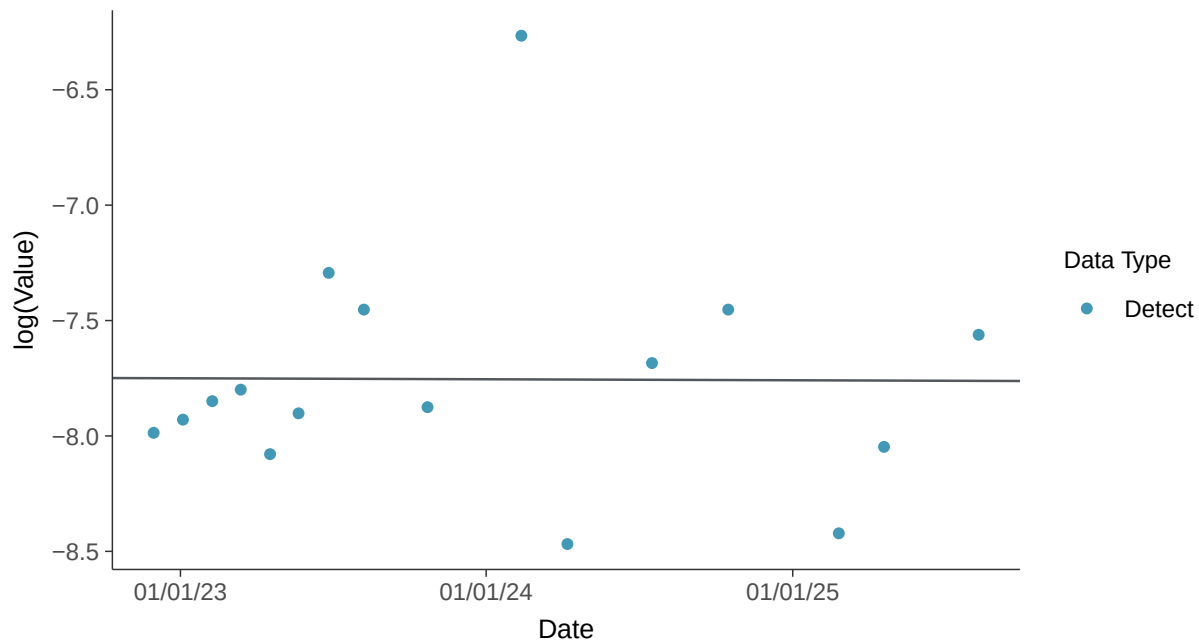
Gamma Q-Q plot

Cobalt, MW-32 (mg/L)



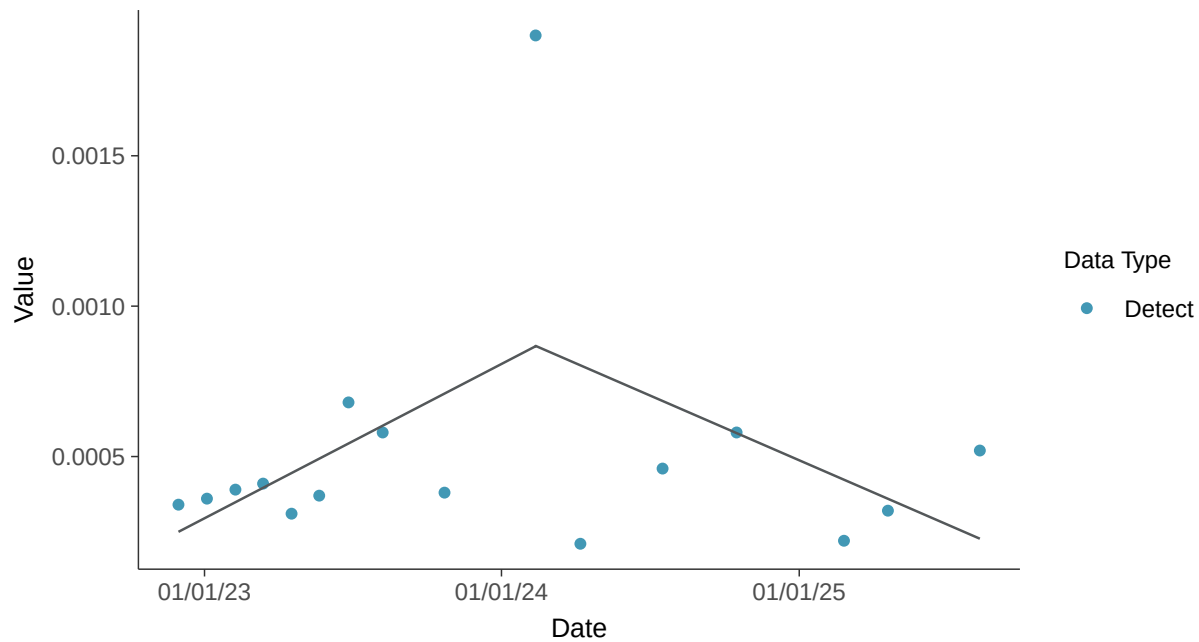
Trend Regression: Lognormal MLE

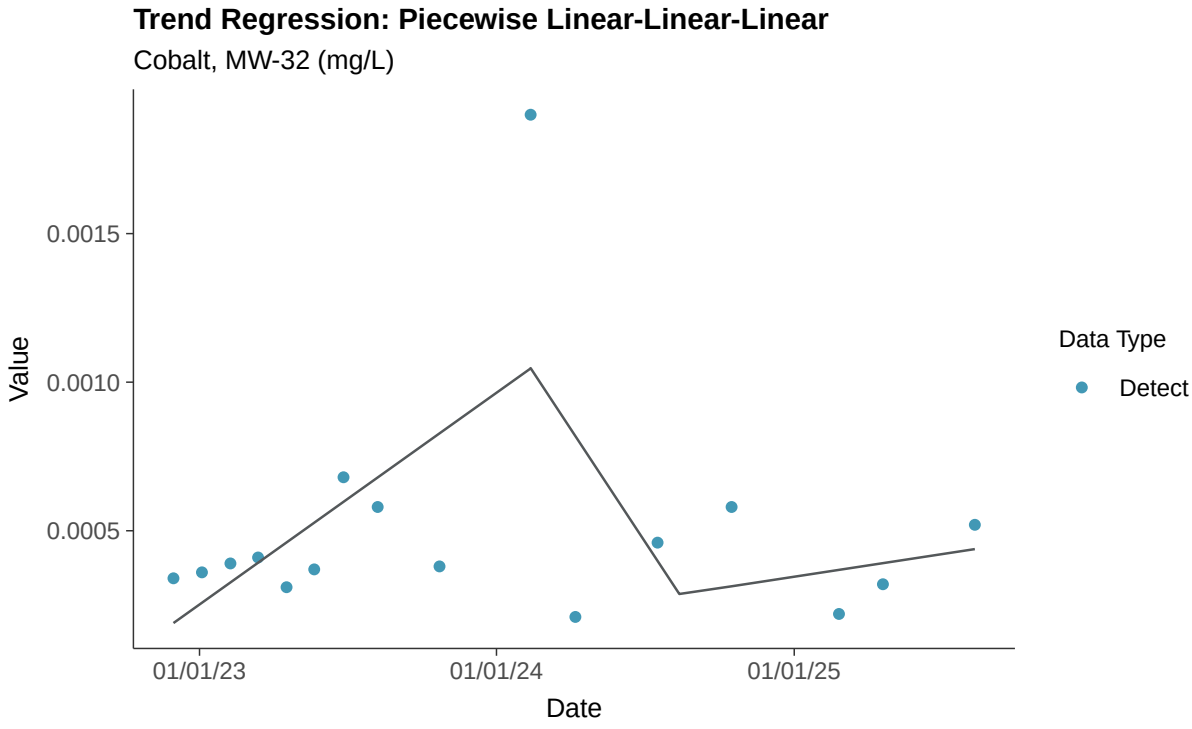
Cobalt, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cobalt, MW-32 (mg/L)



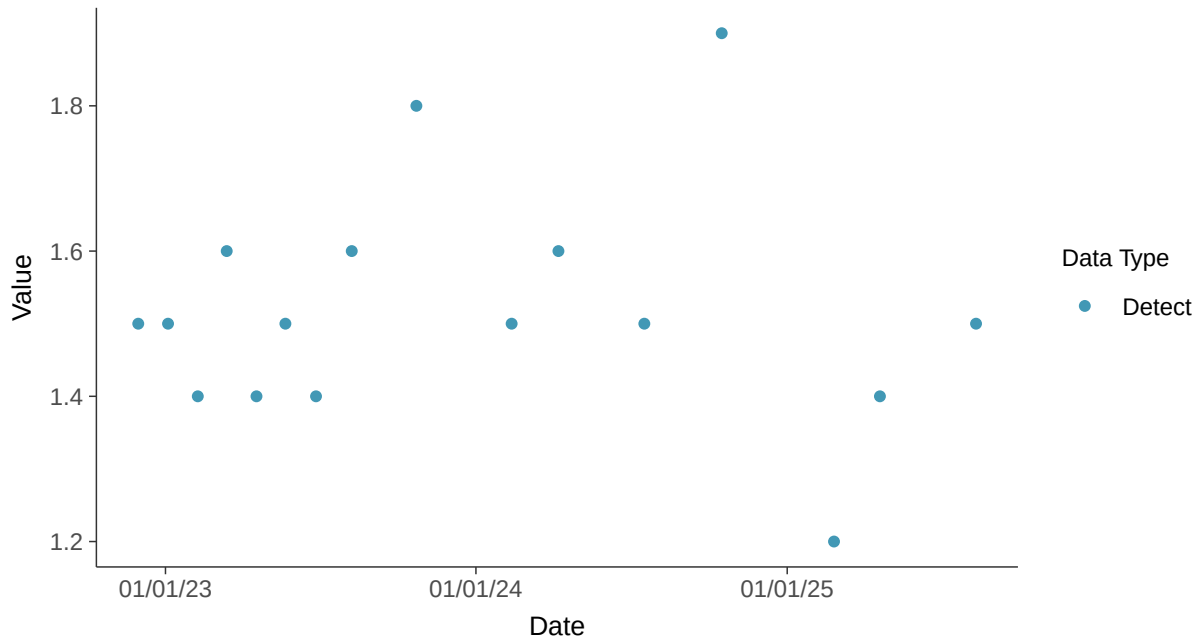


Appendix IV: Fluoride (App IV), MW-32

ID: 42_1_4_113

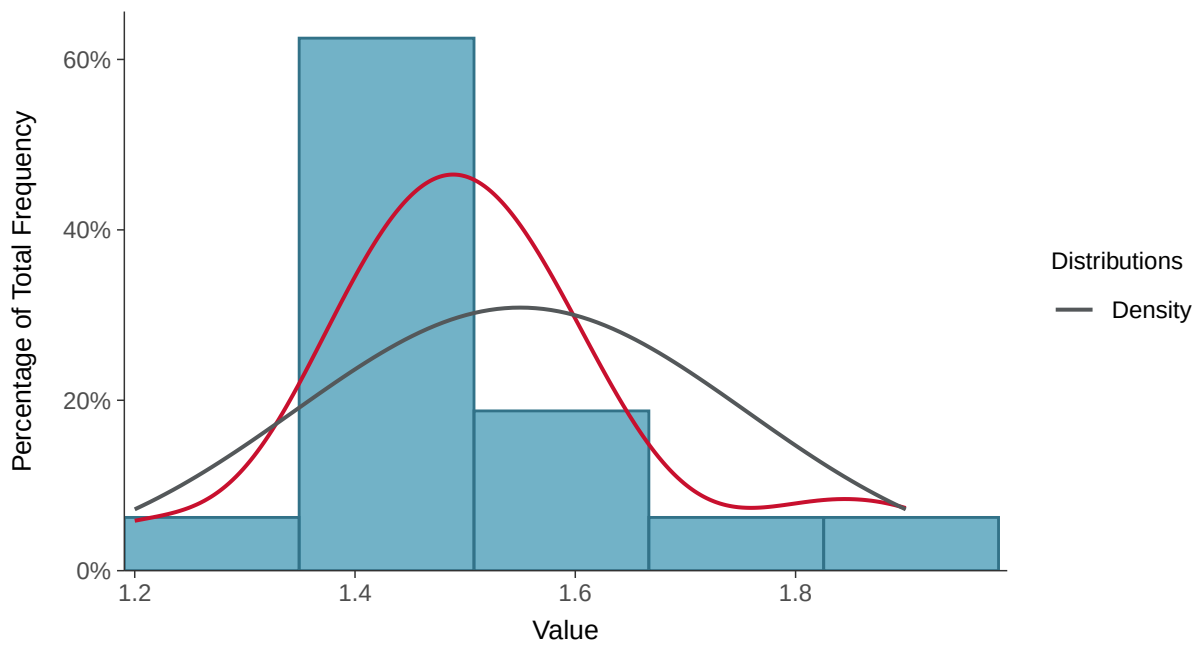
Scatter Plot

Fluoride (App IV), MW-32 (mg/L)



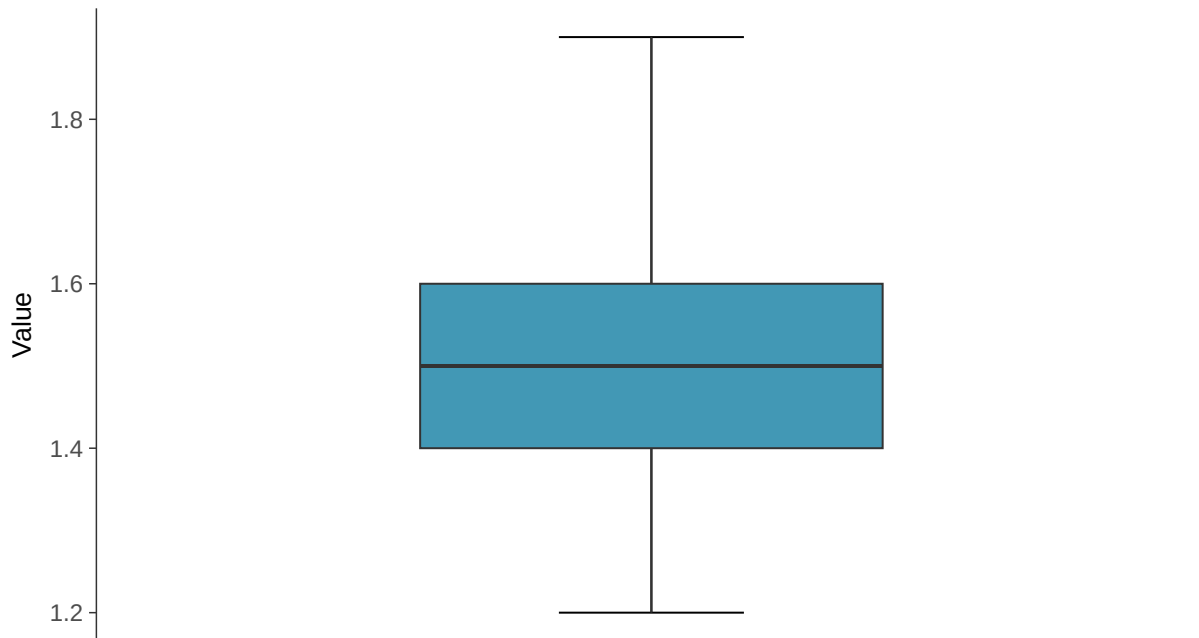
Histogram

Fluoride (App IV), MW-32 (mg/L)



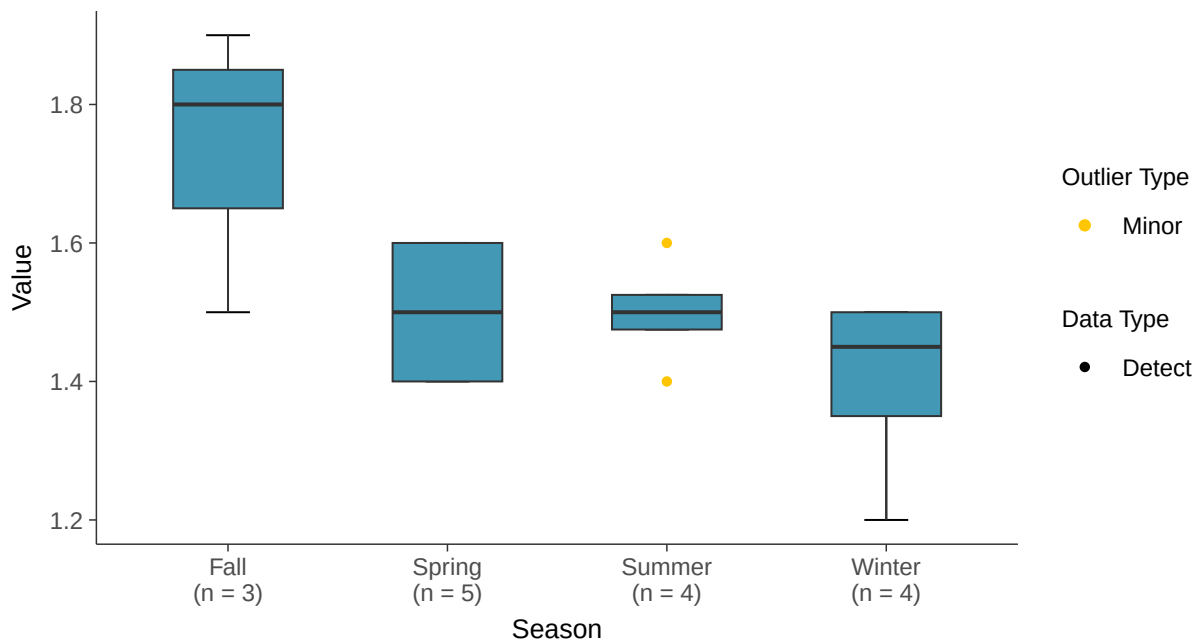
Boxplot

Fluoride (App IV), MW-32 (mg/L)



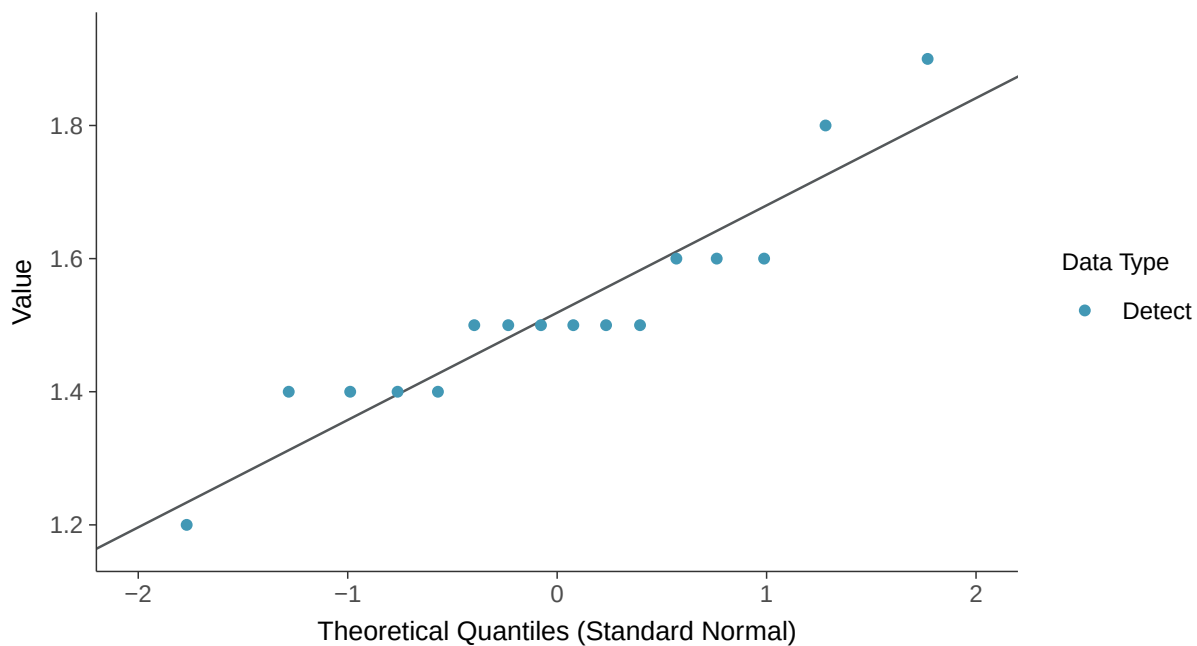
Boxplot by Season

Fluoride (App IV), MW-32 (mg/L)



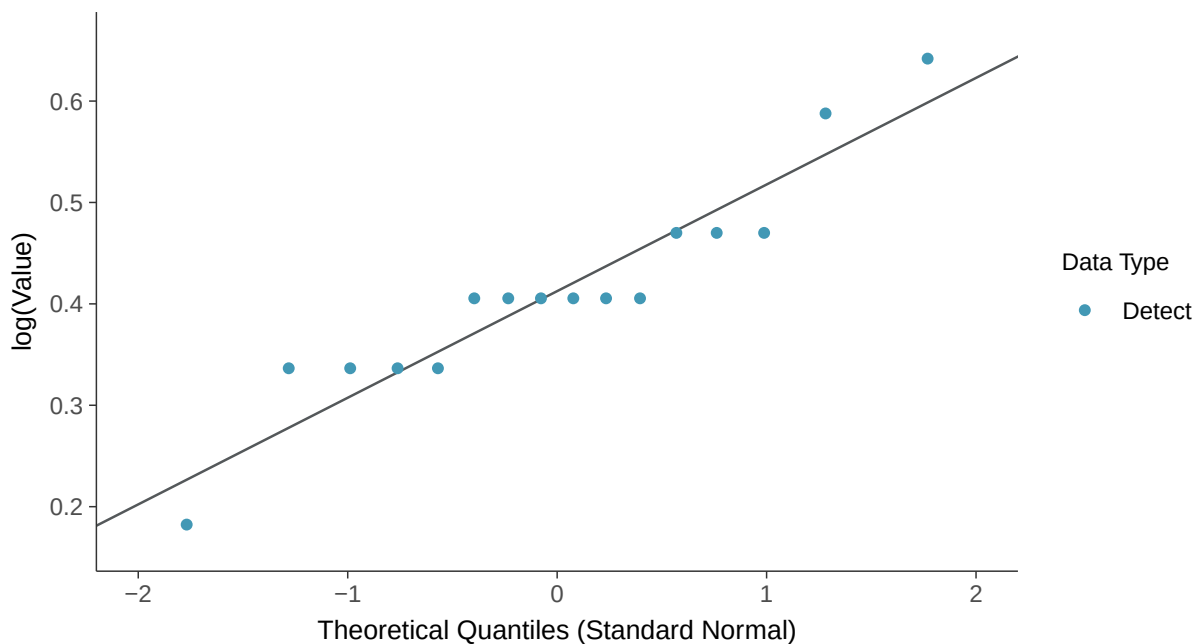
Normal Q-Q plot

Fluoride (App IV), MW-32 (mg/L)



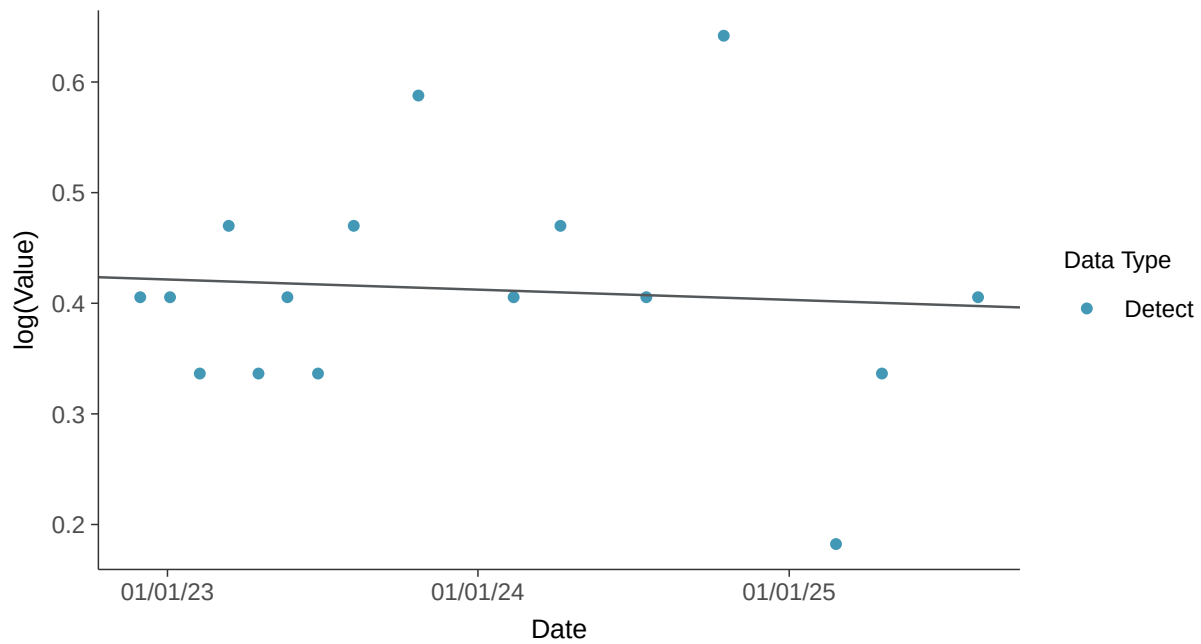
Lognormal Q-Q plot

Fluoride (App IV), MW-32 (mg/L)



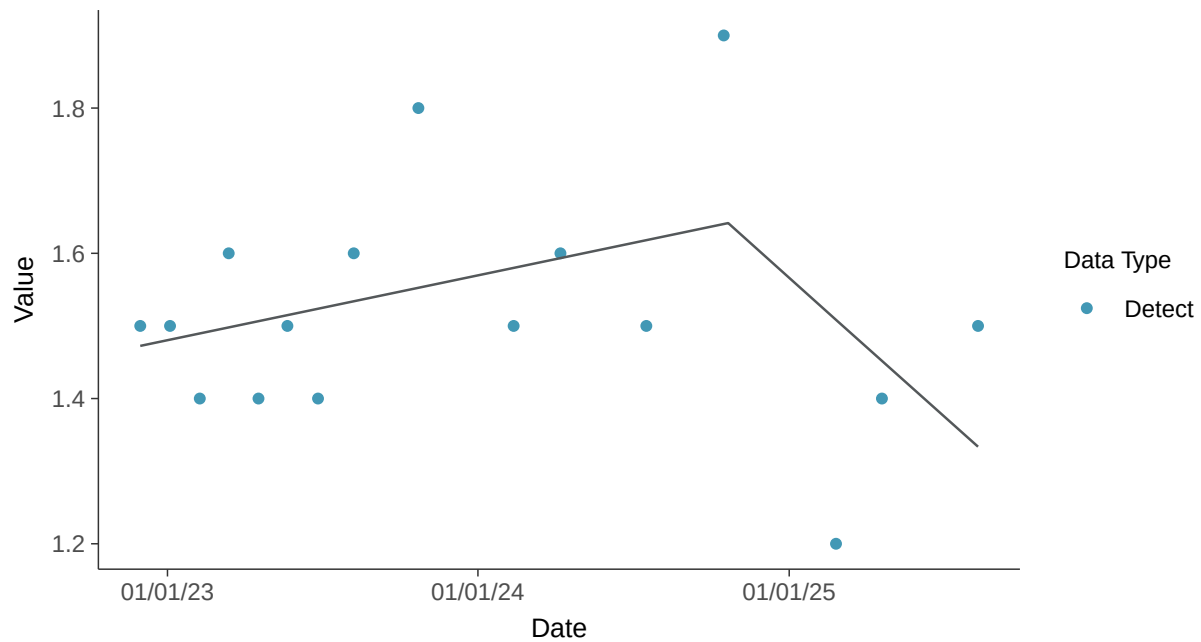
Trend Regression: Lognormal MLE

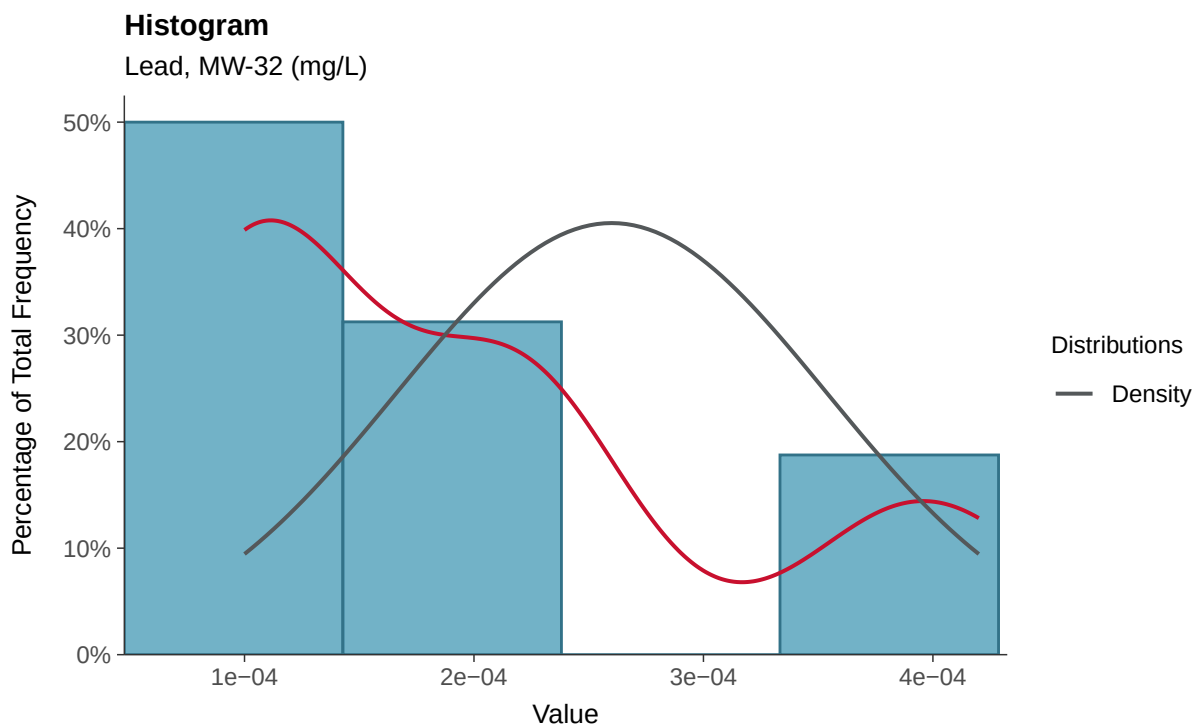
Fluoride (App IV), MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear

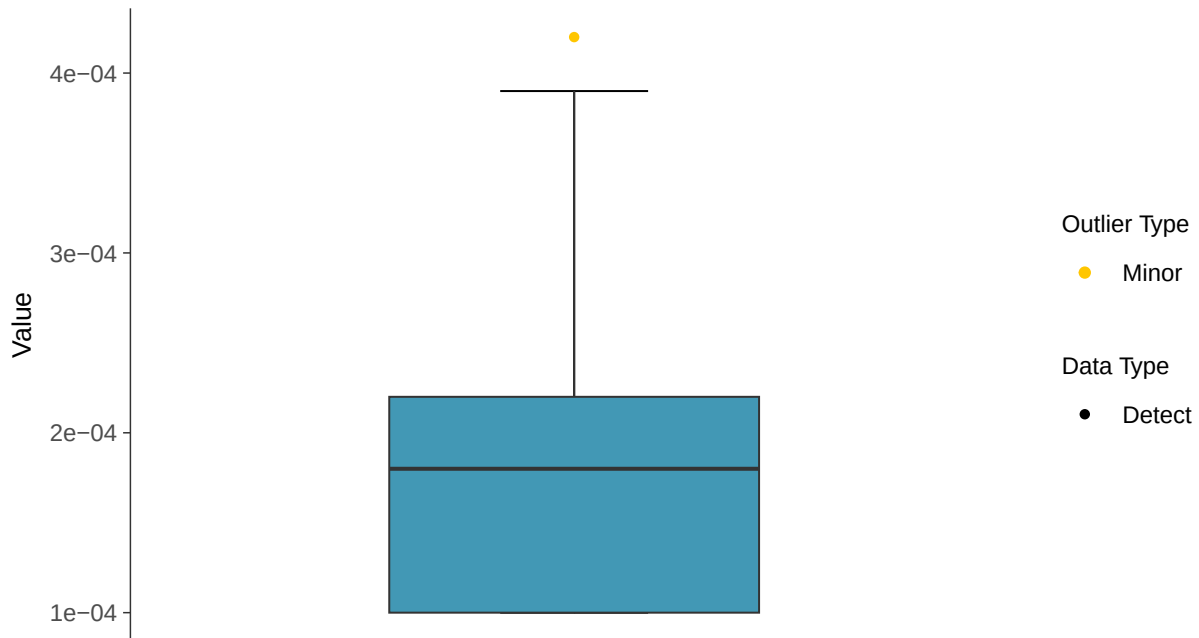
Fluoride (App IV), MW-32 (mg/L)





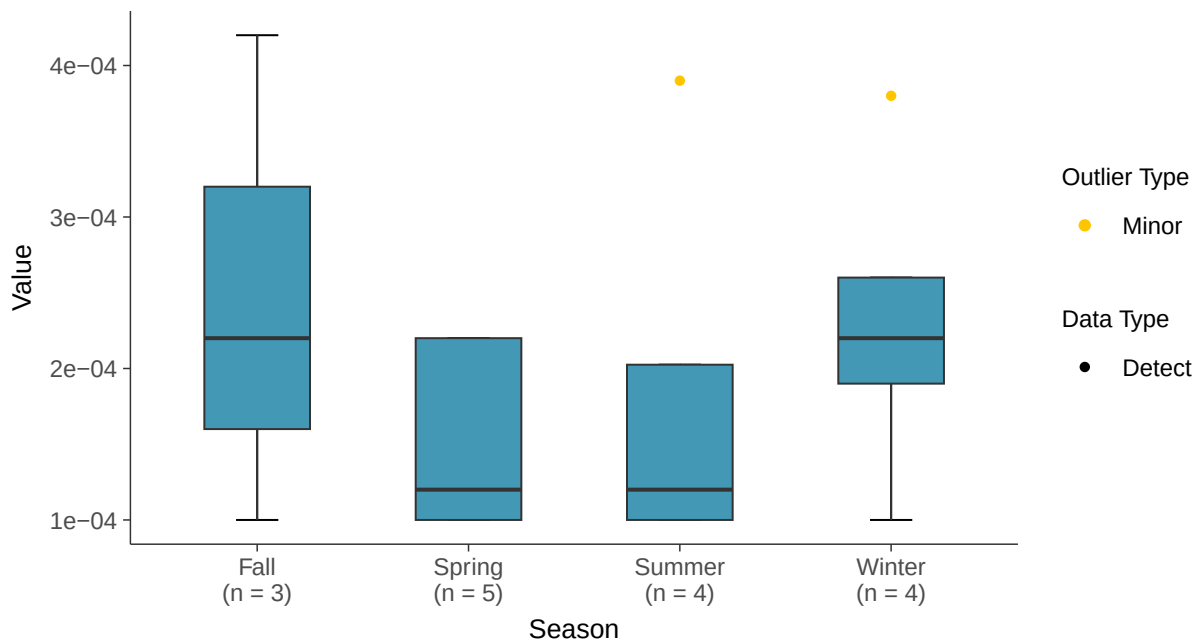
Boxplot

Lead, MW-32 (mg/L)



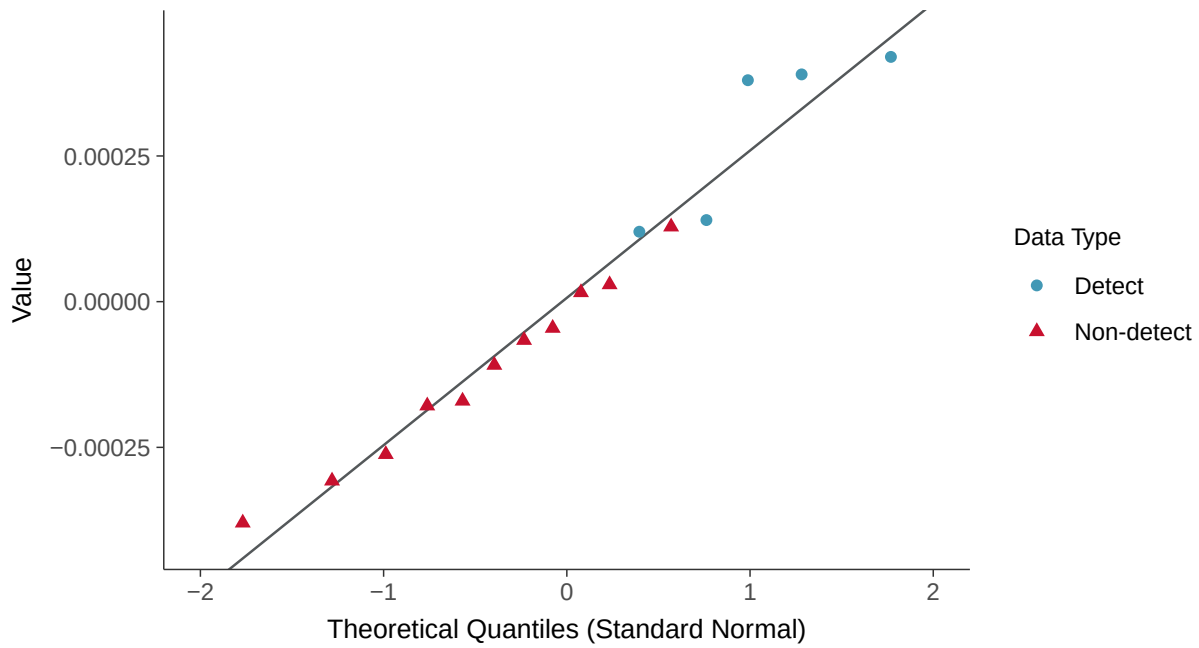
Boxplot by Season

Lead, MW-32 (mg/L)



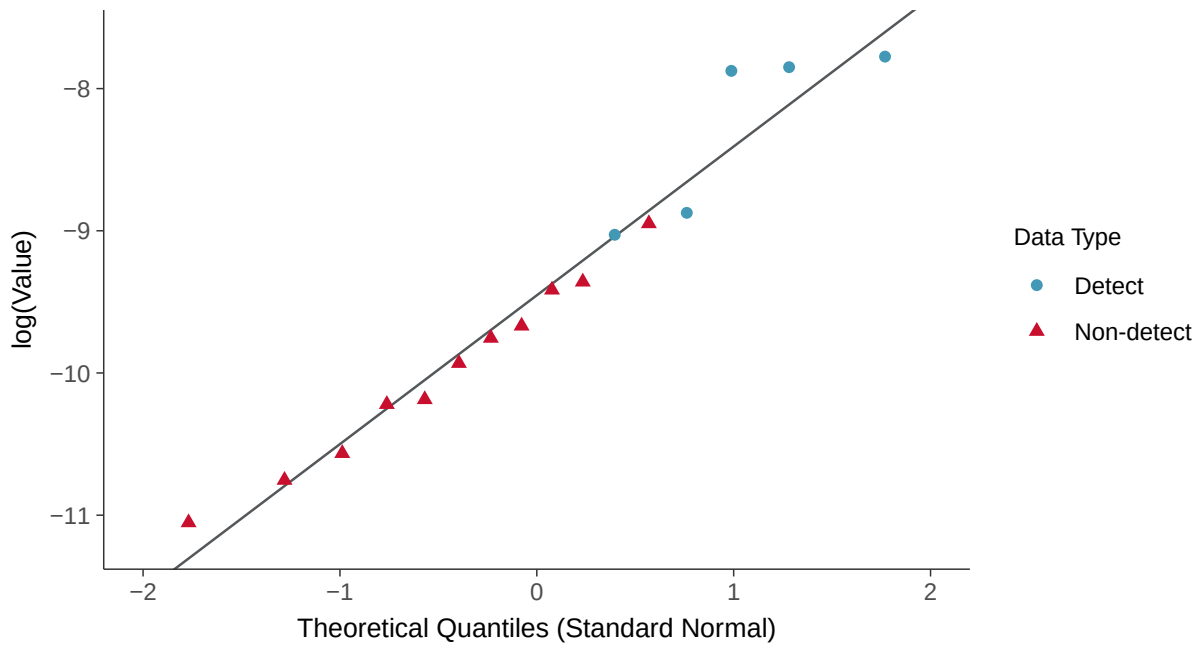
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-32 (mg/L)



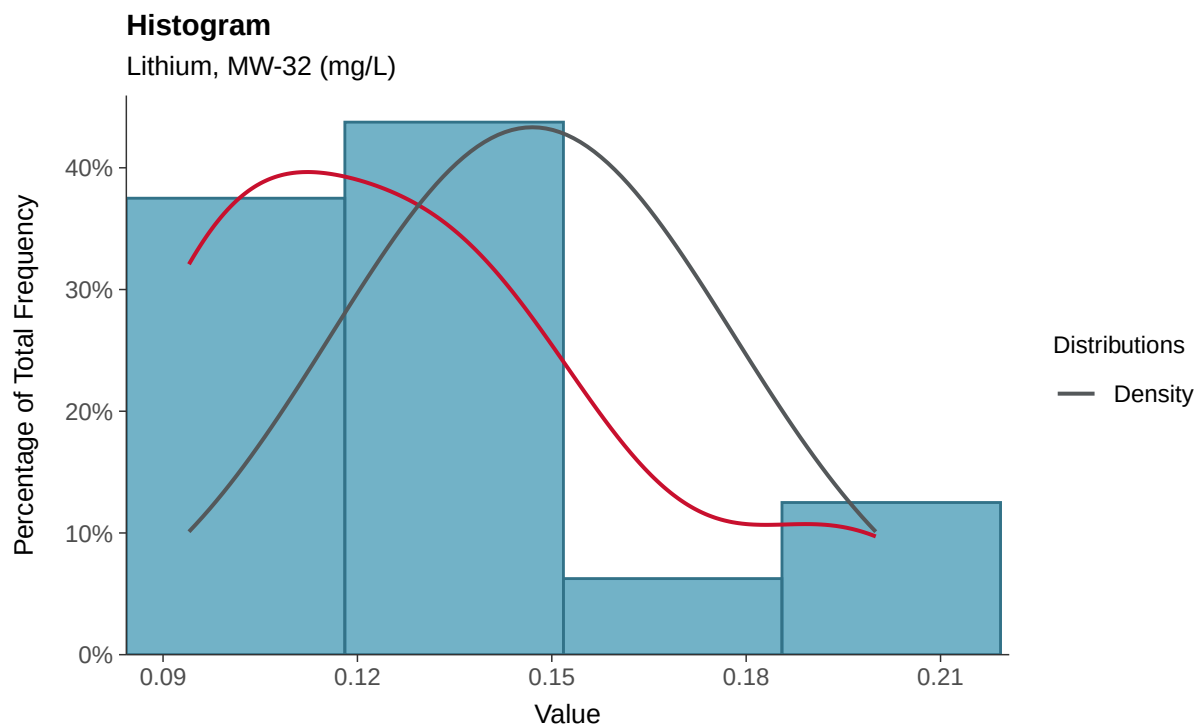
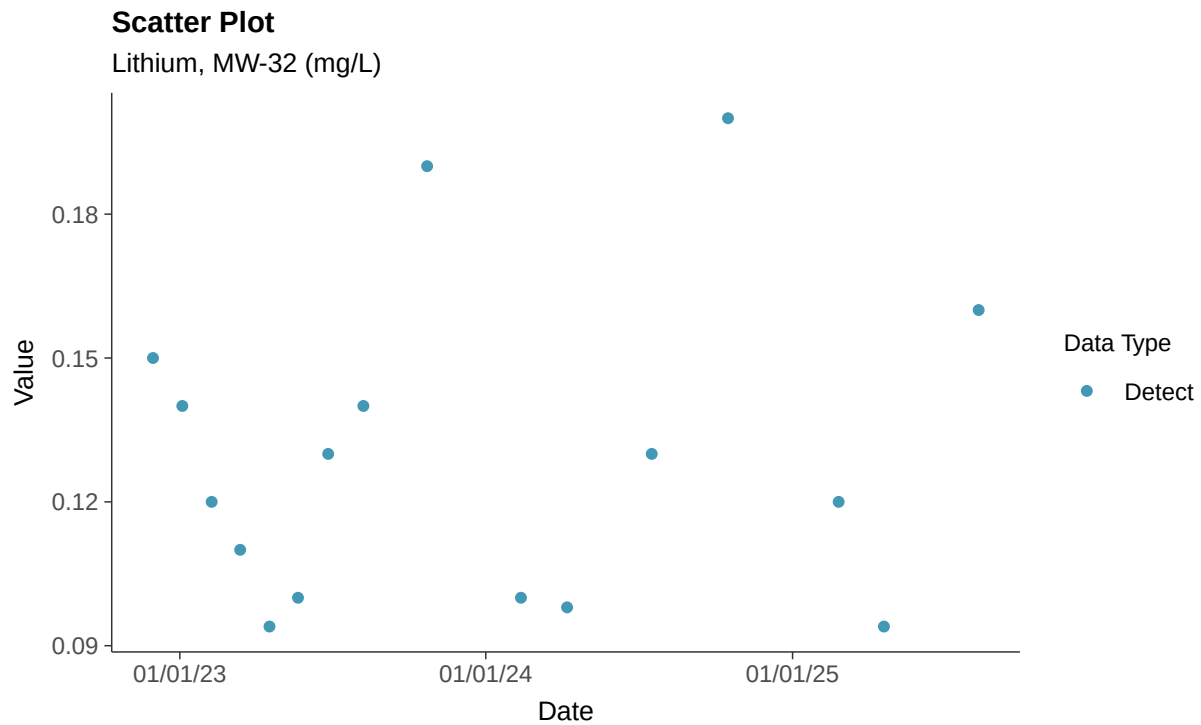
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-32 (mg/L)



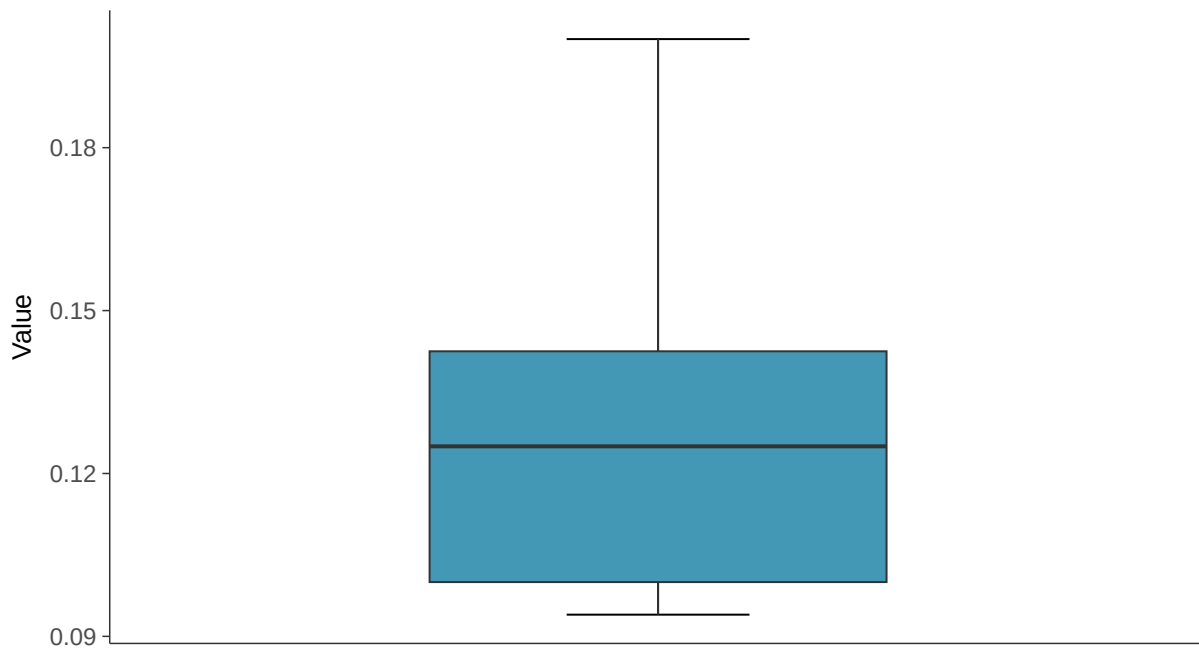
Appendix IV: Lithium, MW-32

ID: 42_1_4_116



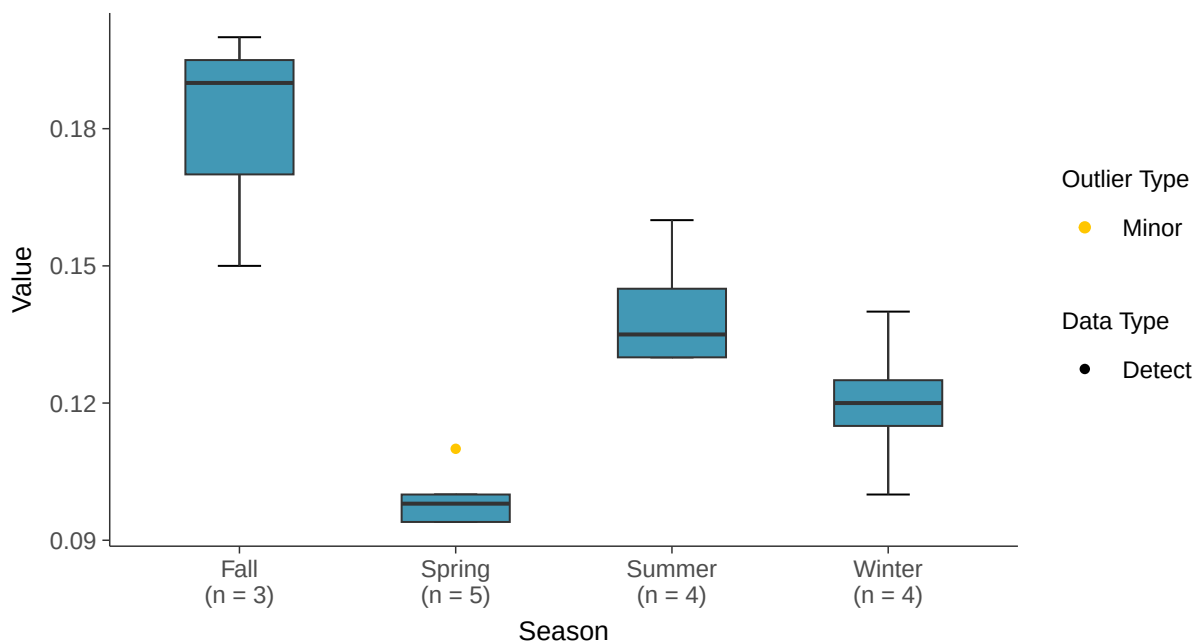
Boxplot

Lithium, MW-32 (mg/L)



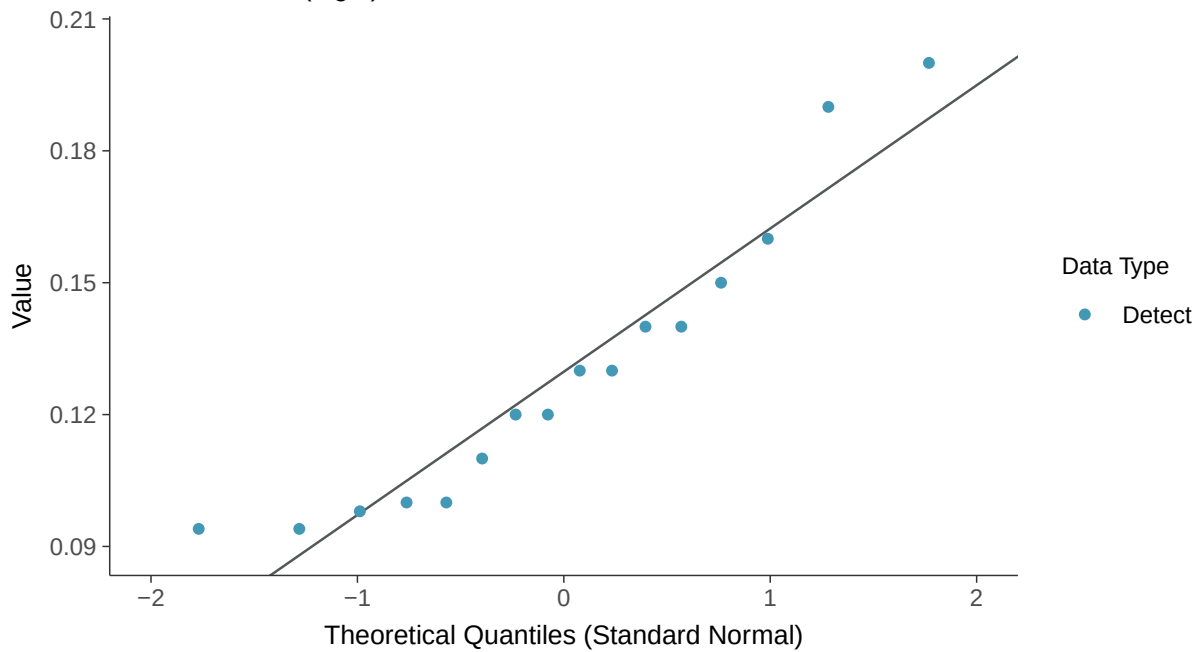
Boxplot by Season

Lithium, MW-32 (mg/L)



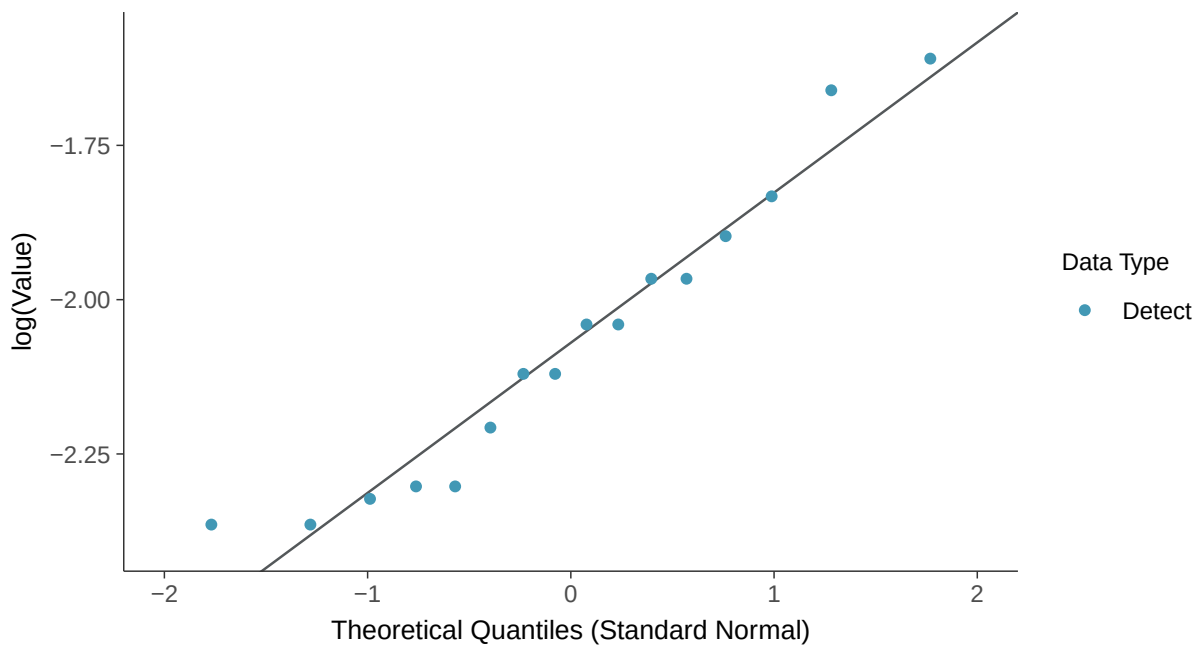
Normal Q-Q plot

Lithium, MW-32 (mg/L)



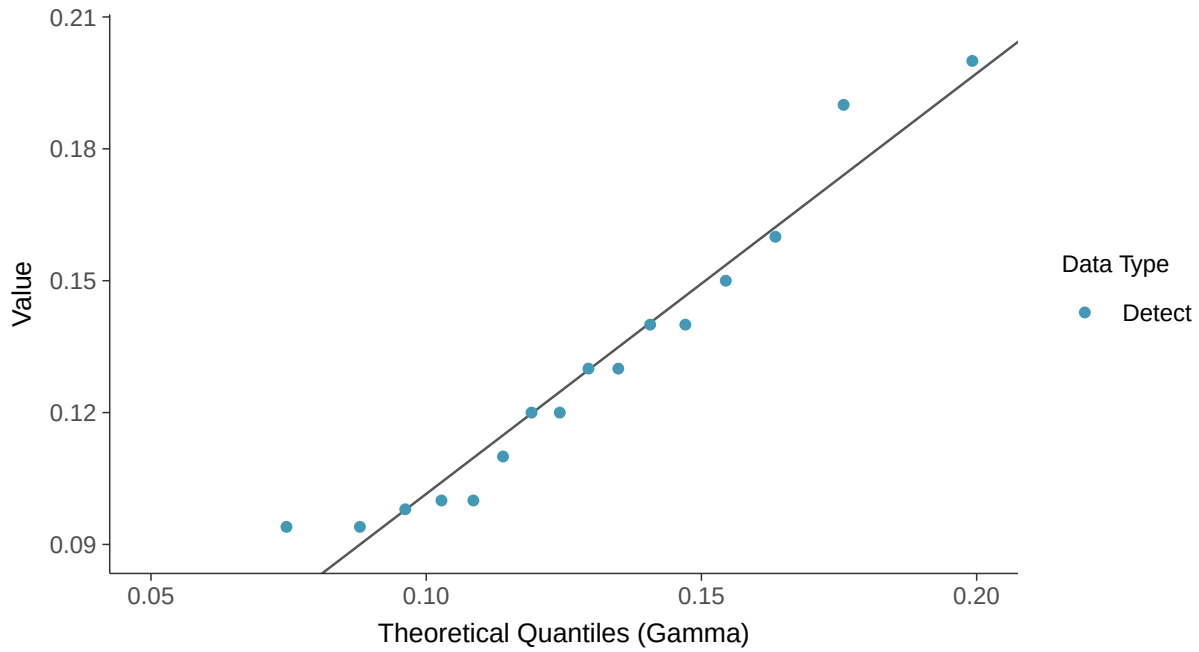
Lognormal Q-Q plot

Lithium, MW-32 (mg/L)



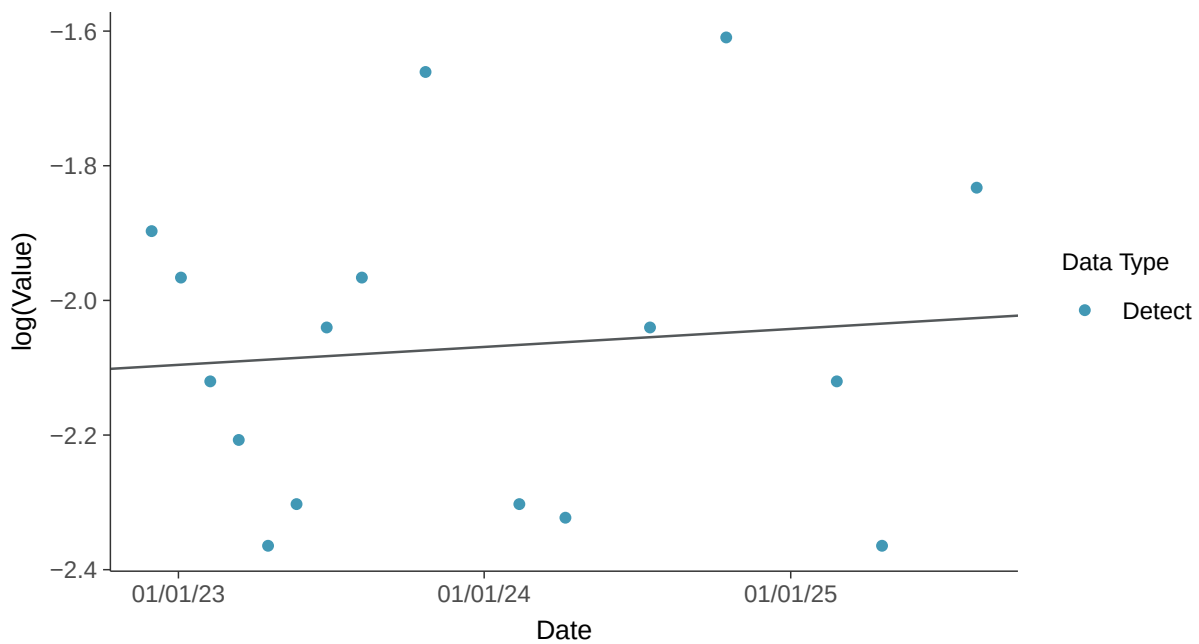
Gamma Q-Q plot

Lithium, MW-32 (mg/L)



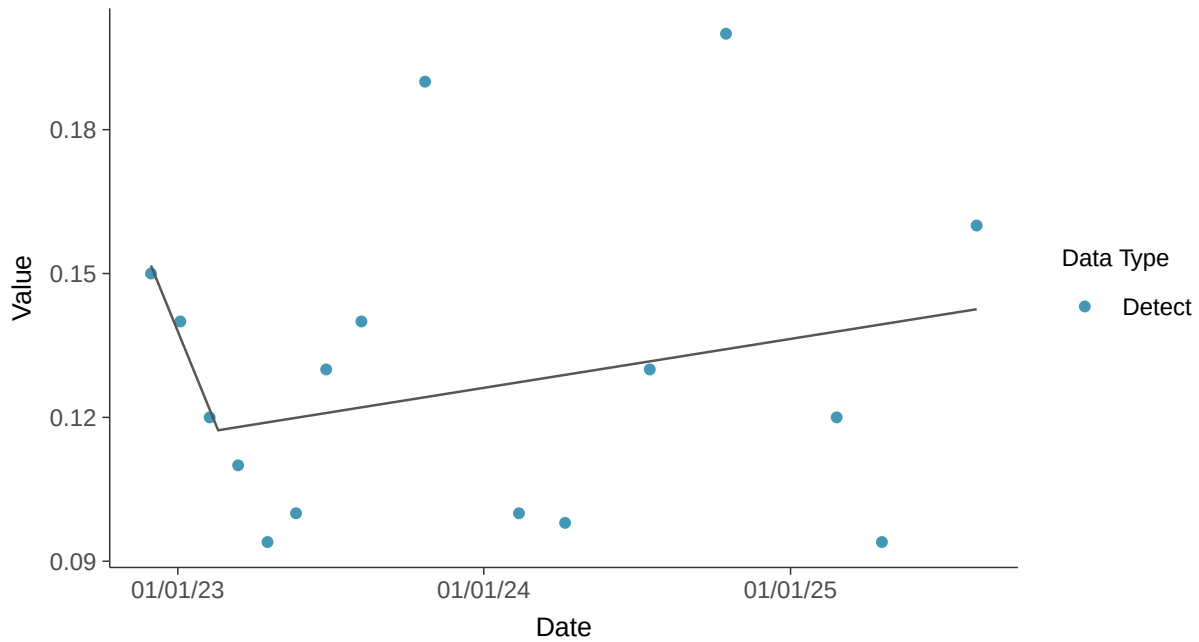
Trend Regression: Lognormal MLE

Lithium, MW-32 (mg/L)



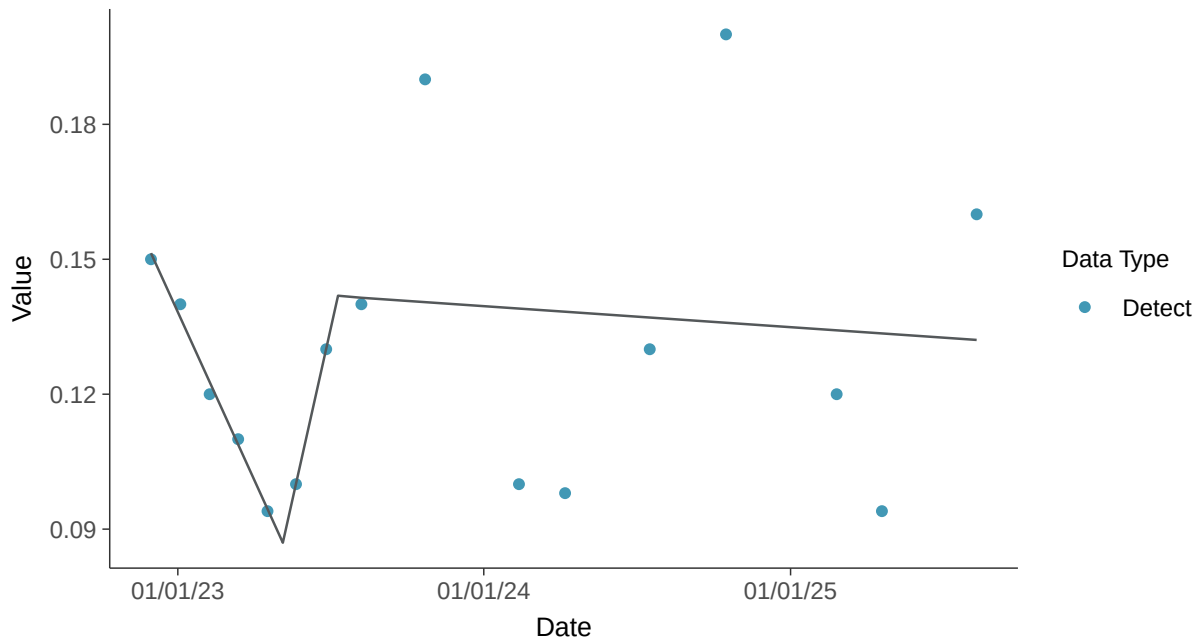
Trend Regression: Piecewise Linear-Linear

Lithium, MW-32 (mg/L)



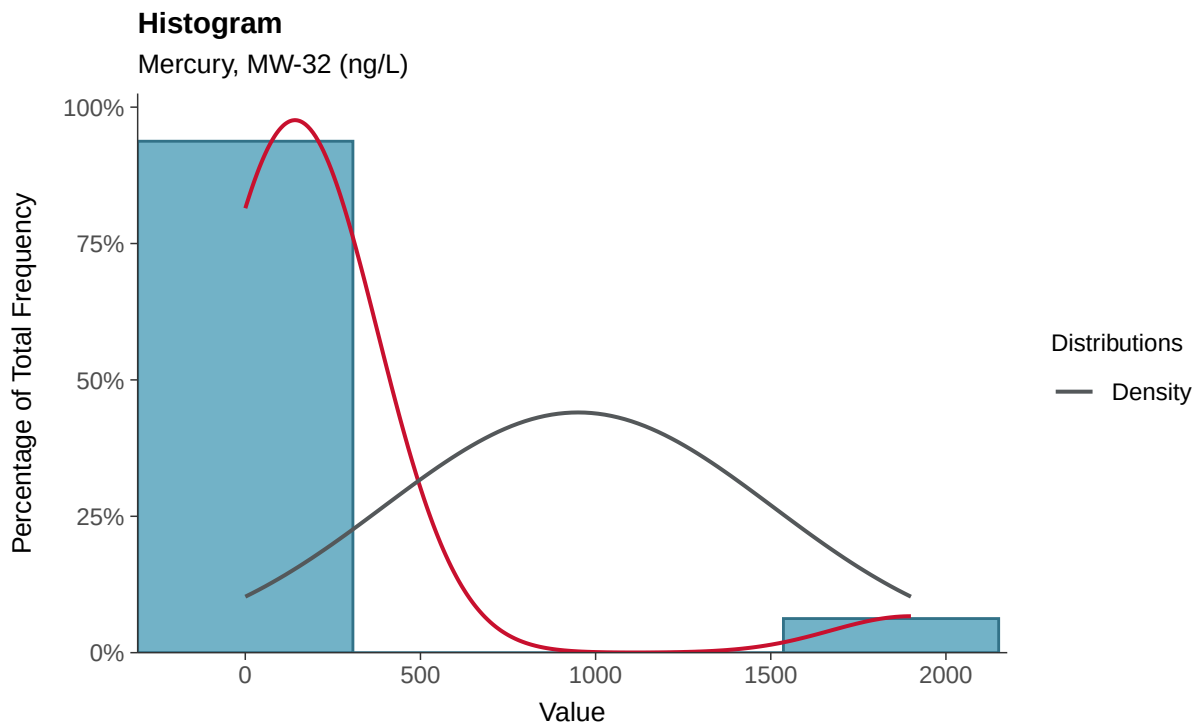
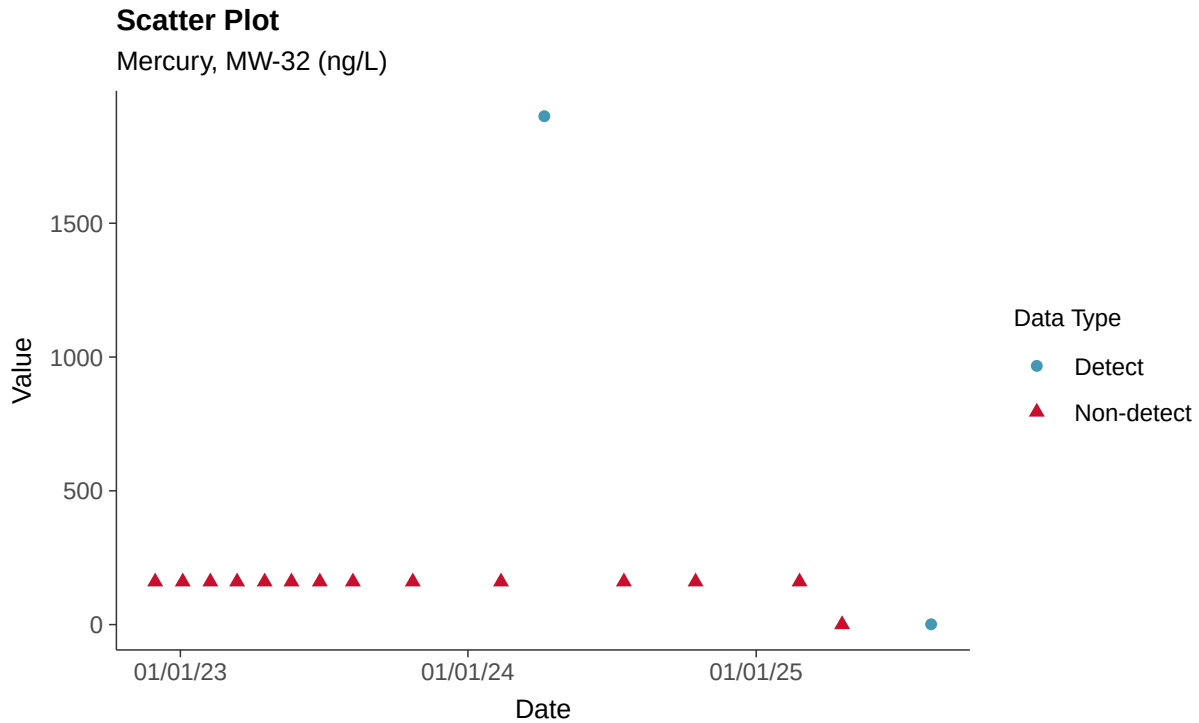
Trend Regression: Piecewise Linear-Linear-Linear

Lithium, MW-32 (mg/L)



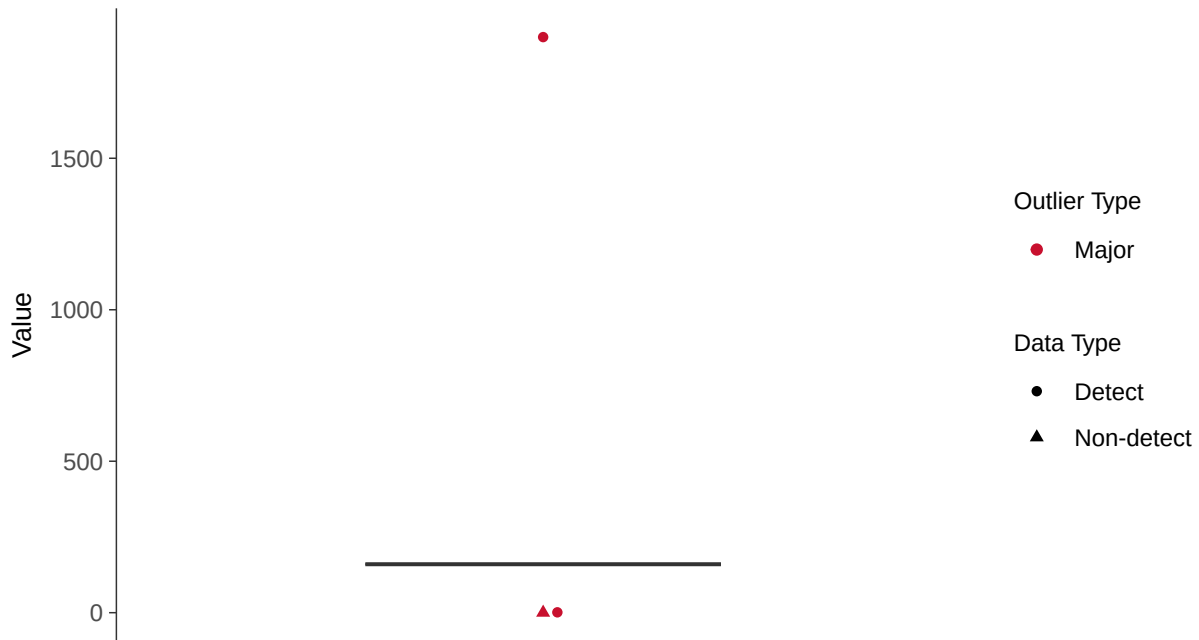
Appendix IV: Mercury, MW-32

ID: 42_1_4_117



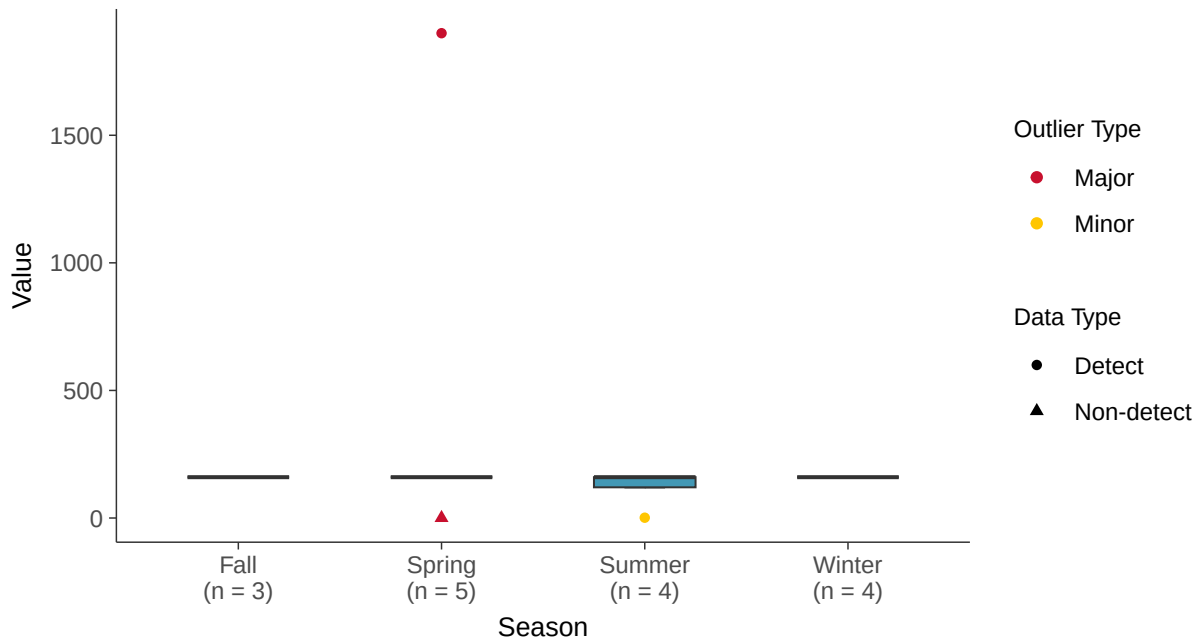
Boxplot

Mercury, MW-32 (ng/L)



Boxplot by Season

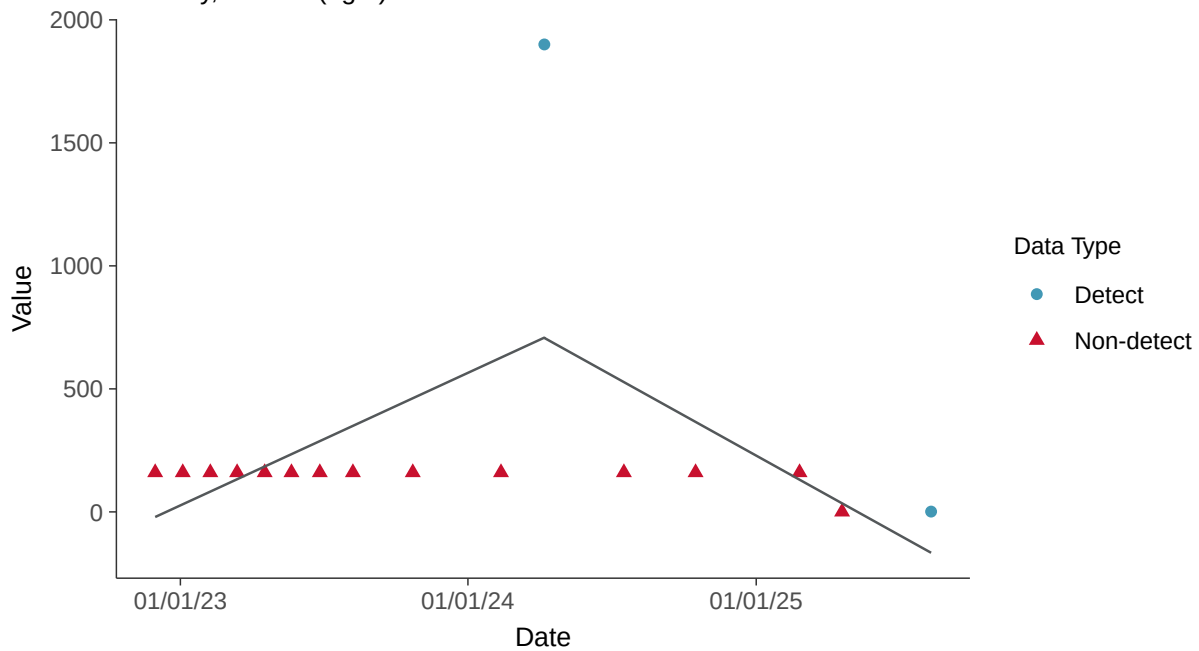
Mercury, MW-32 (ng/L)

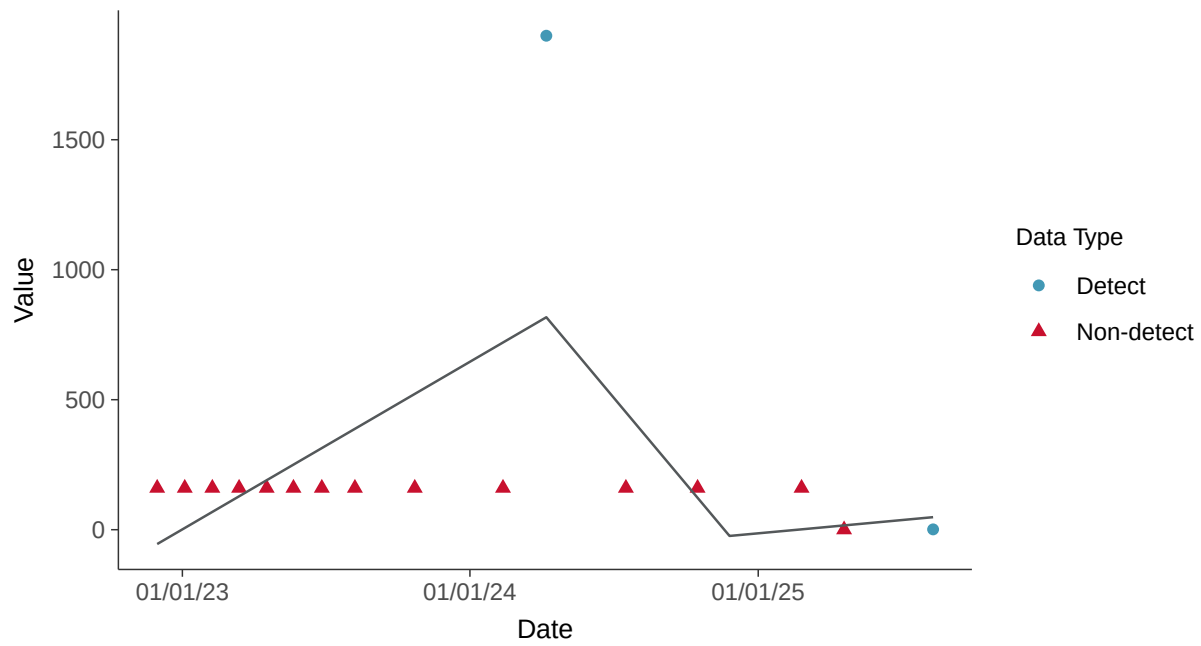


Mercury, MW-32 (ng/L)



Mercury, MW-32 (ng/L)



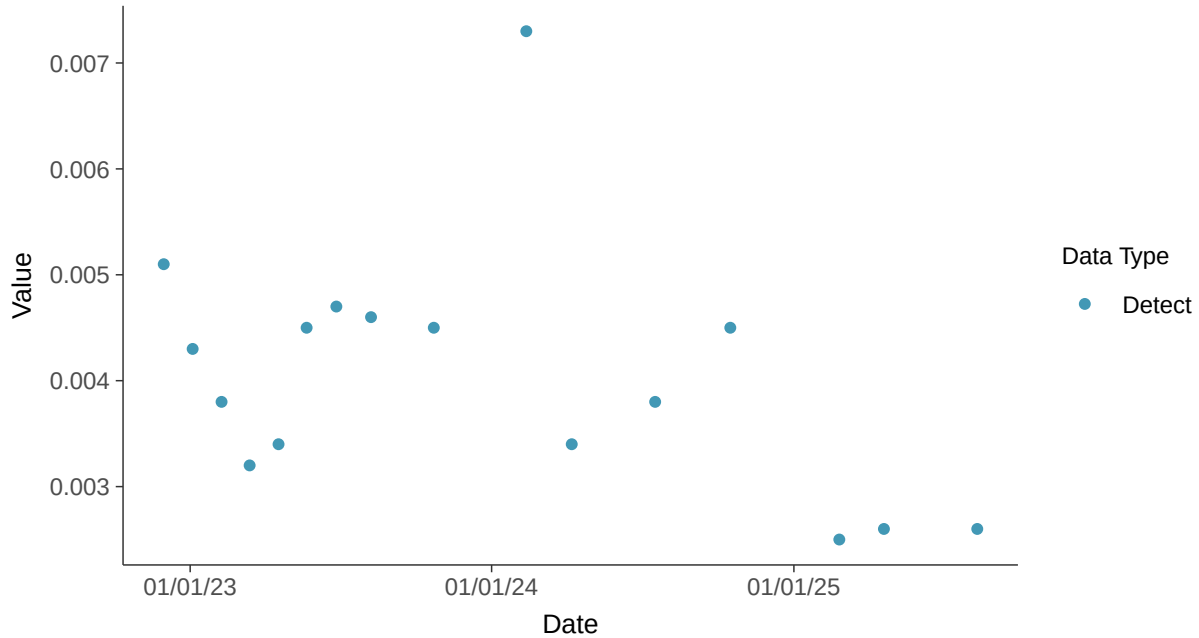


Appendix IV: Molybdenum, MW-32

ID: 42_1_4_118

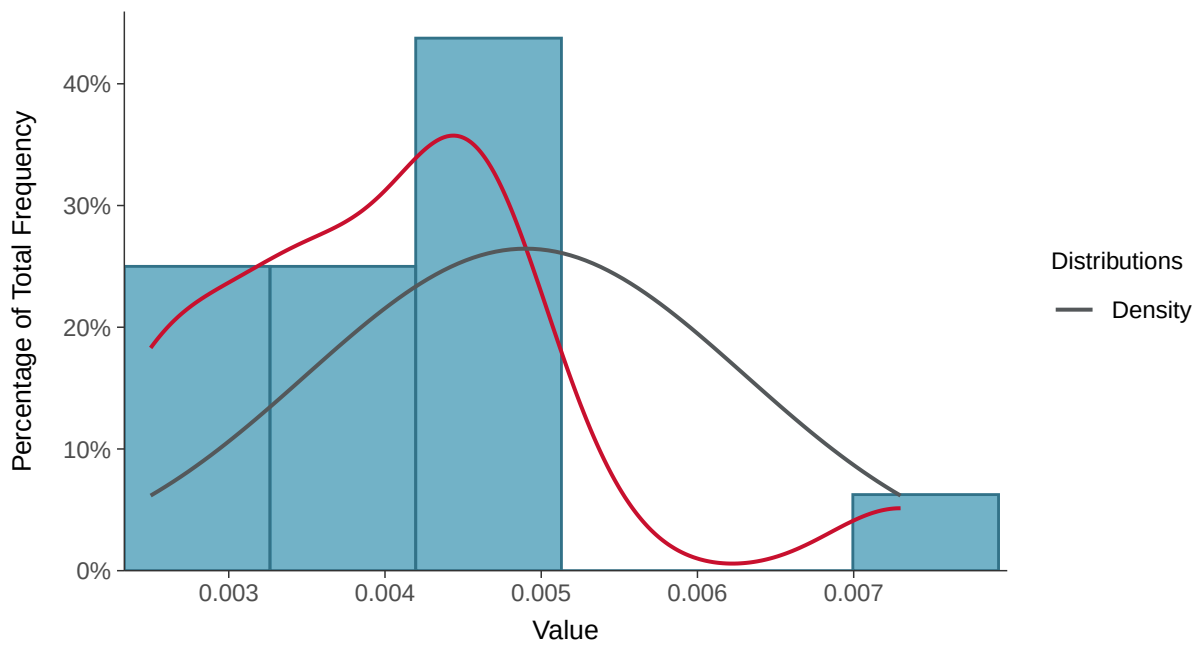
Scatter Plot

Molybdenum, MW-32 (mg/L)



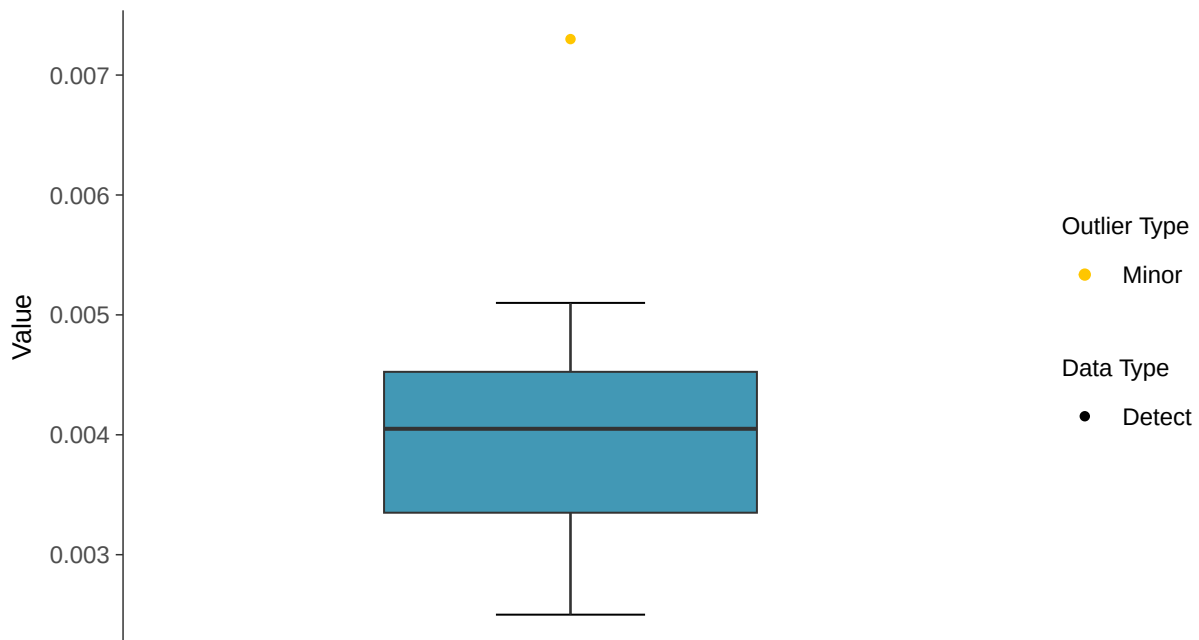
Histogram

Molybdenum, MW-32 (mg/L)



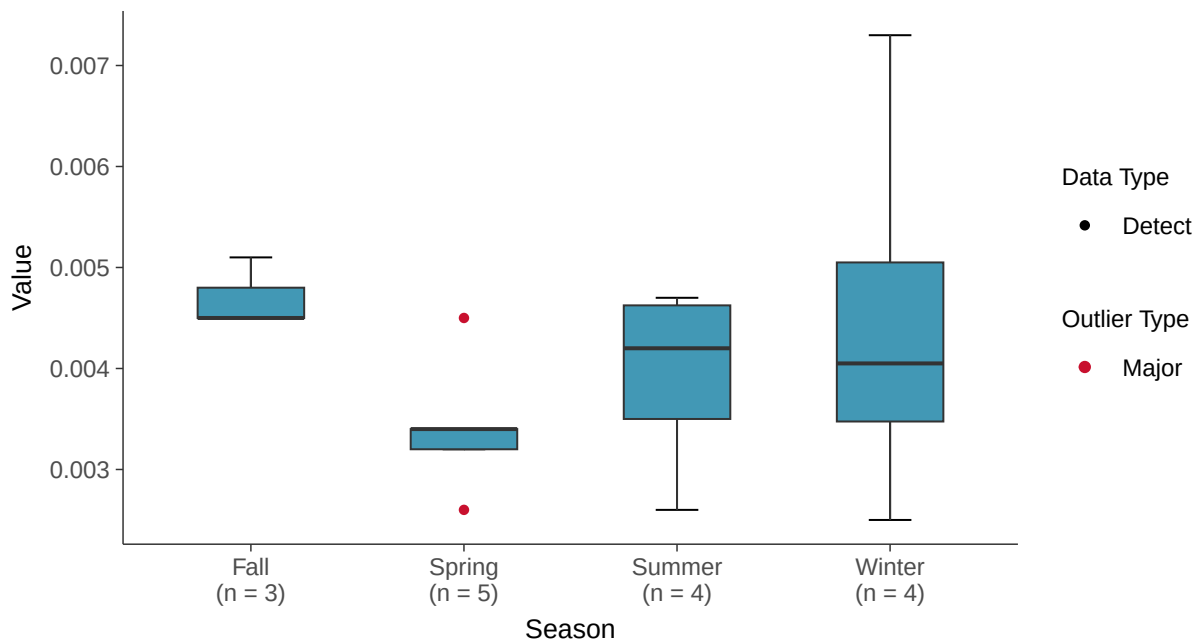
Boxplot

Molybdenum, MW-32 (mg/L)



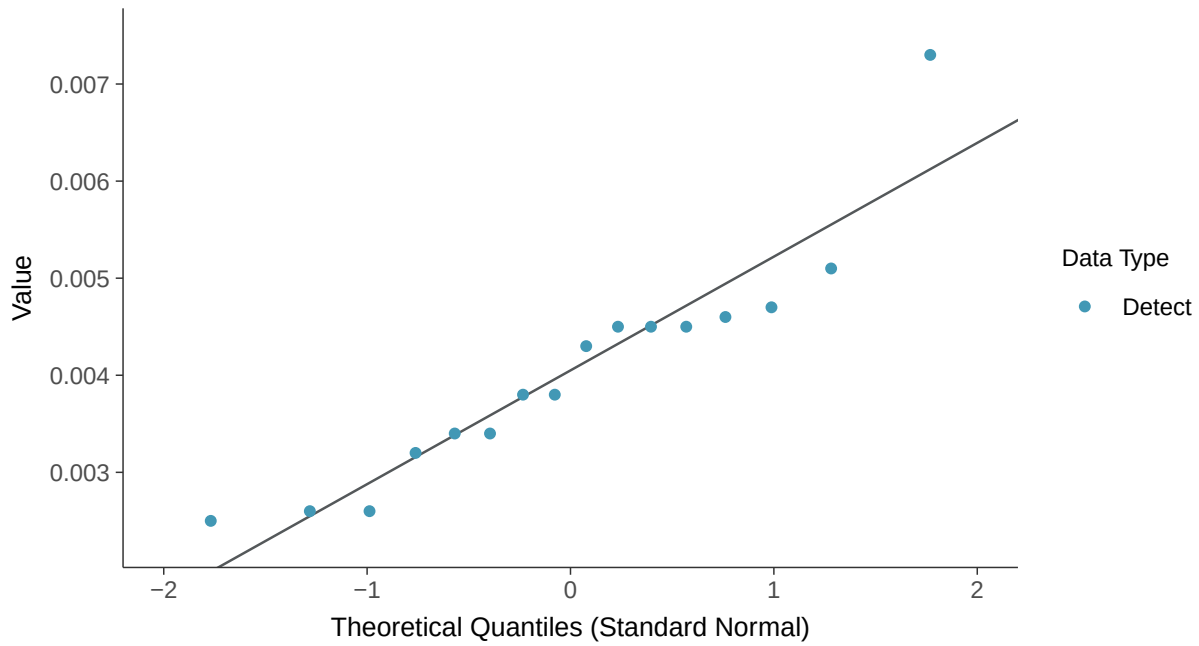
Boxplot by Season

Molybdenum, MW-32 (mg/L)



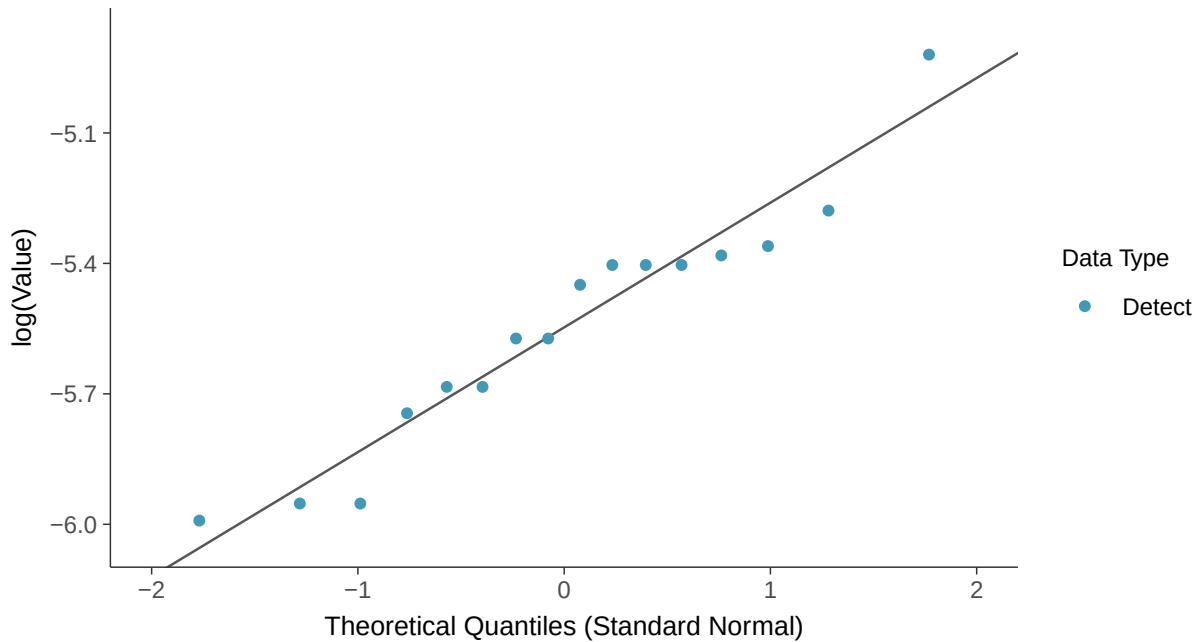
Normal Q-Q plot

Molybdenum, MW-32 (mg/L)



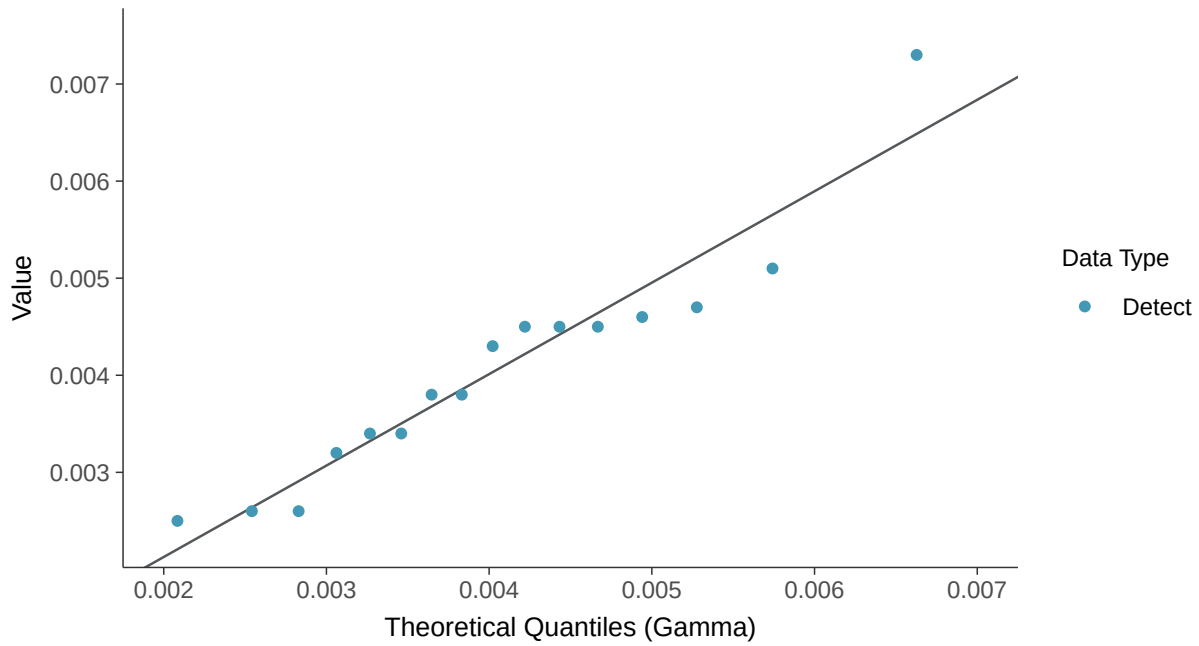
Lognormal Q-Q plot

Molybdenum, MW-32 (mg/L)



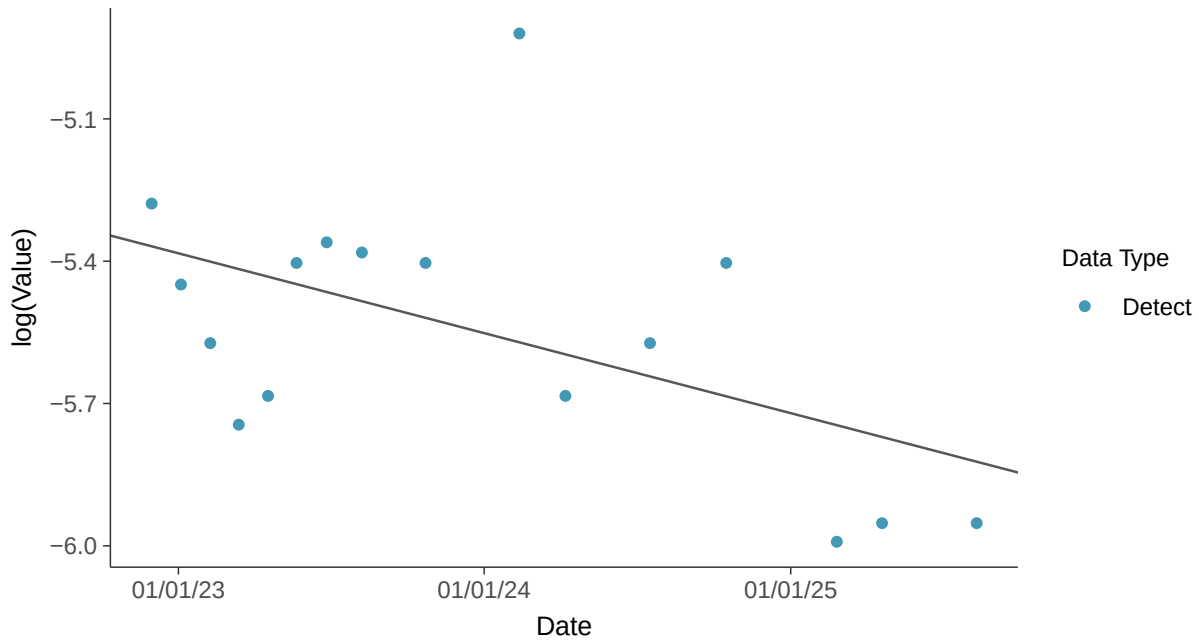
Gamma Q-Q plot

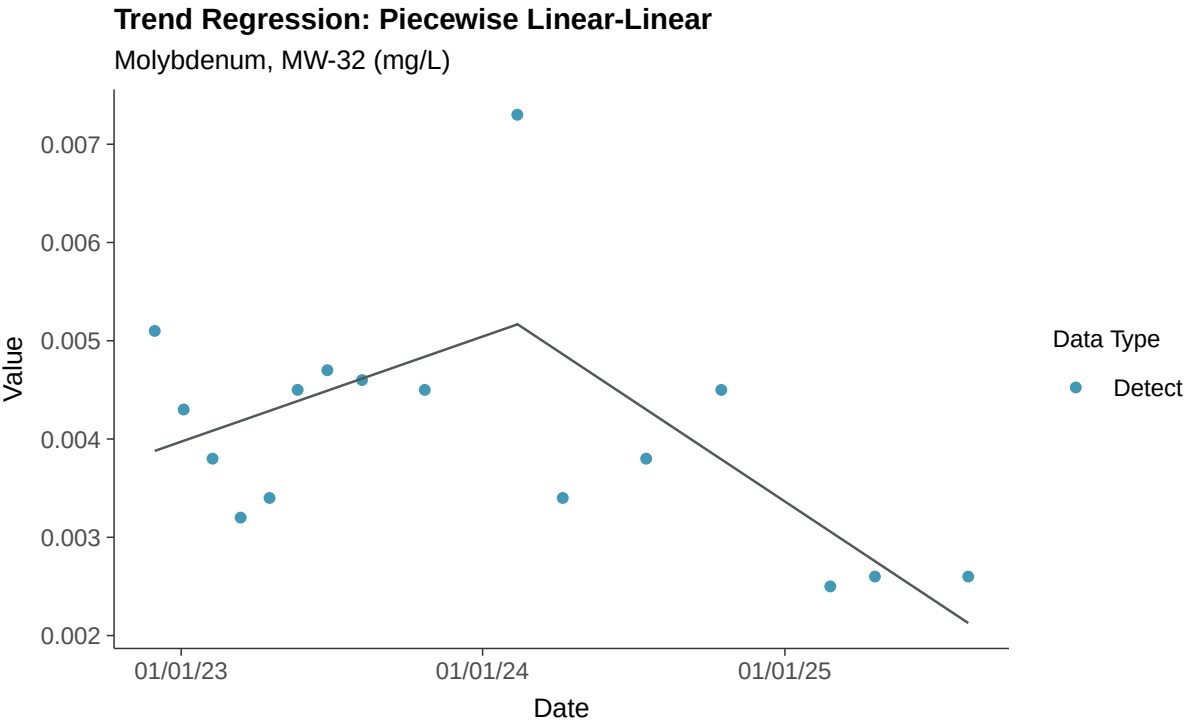
Molybdenum, MW-32 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-32 (mg/L)



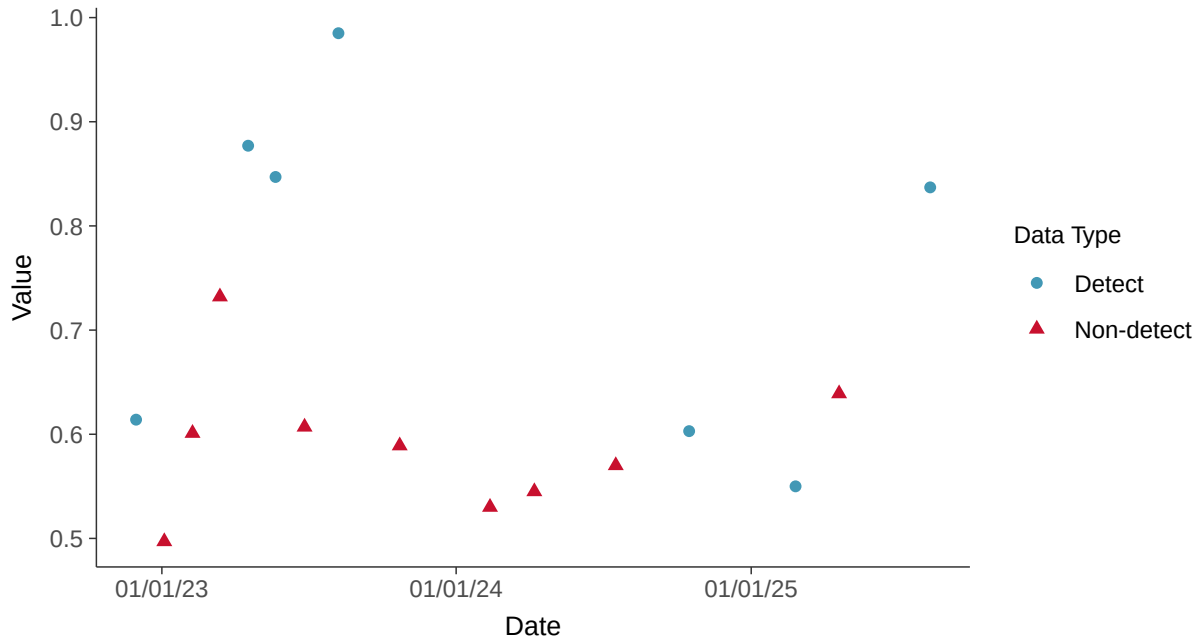


Appendix IV: Radium 226 and 228, MW-32

ID: 42_1_4_121

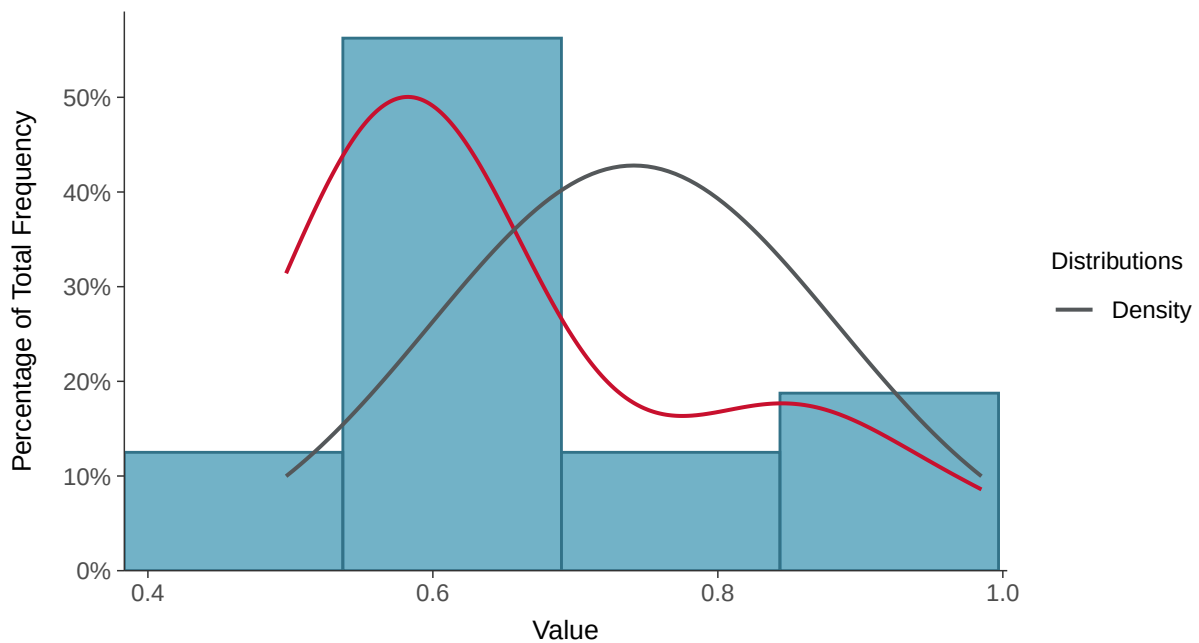
Scatter Plot

Radium 226 and 228, MW-32 (pCi/L)



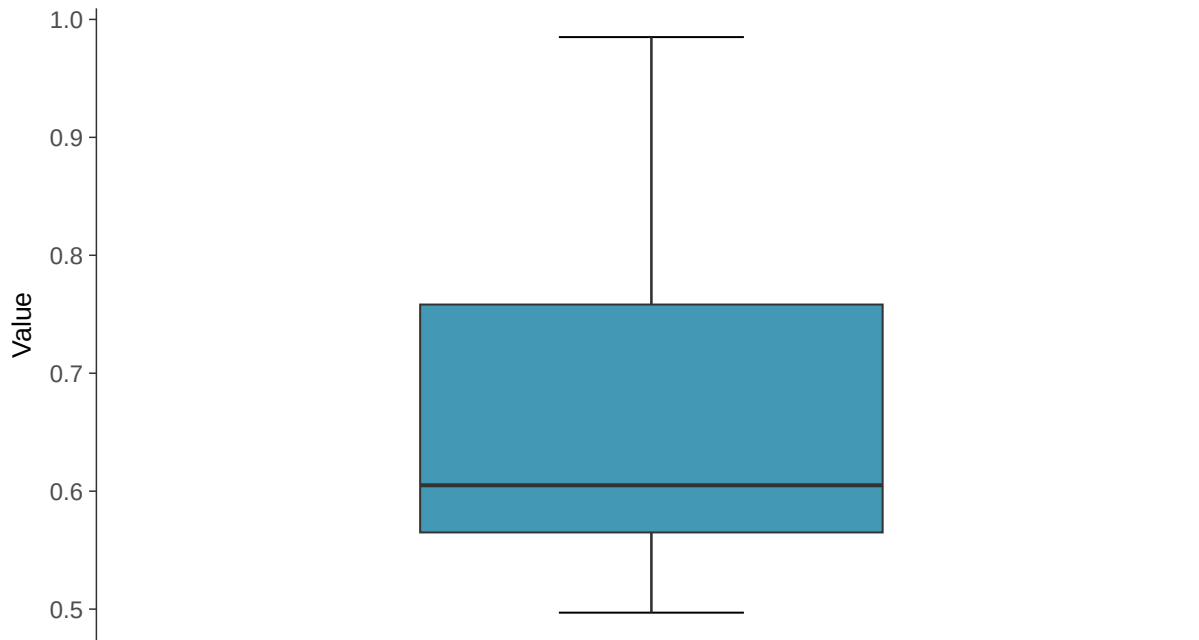
Histogram

Radium 226 and 228, MW-32 (pCi/L)



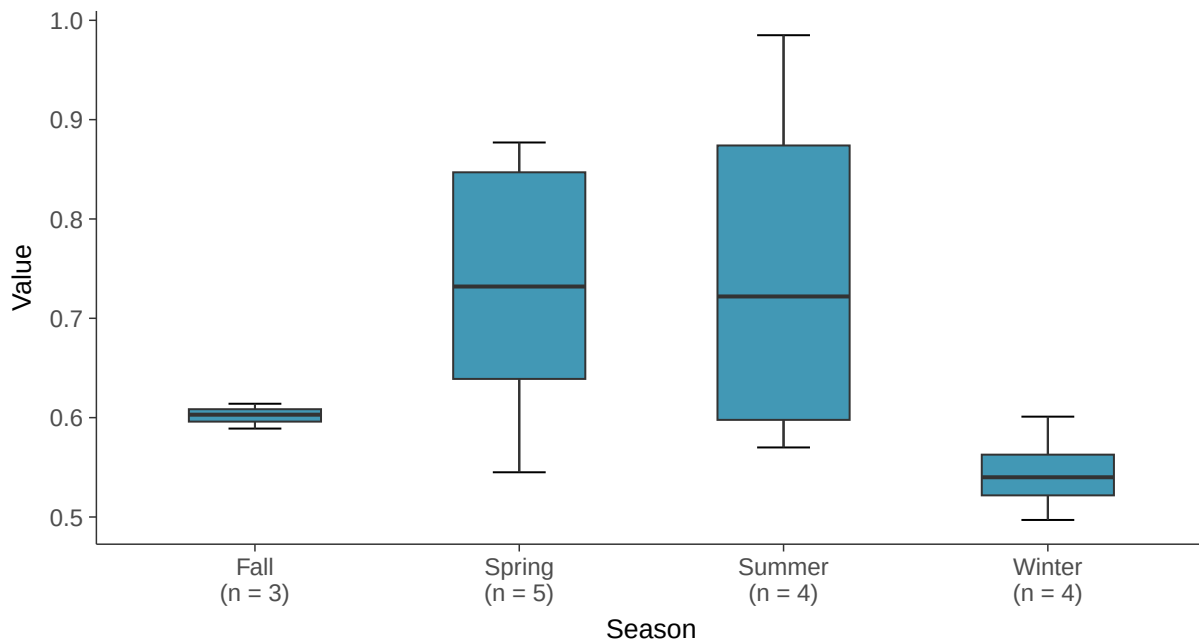
Boxplot

Radium 226 and 228, MW-32 (pCi/L)



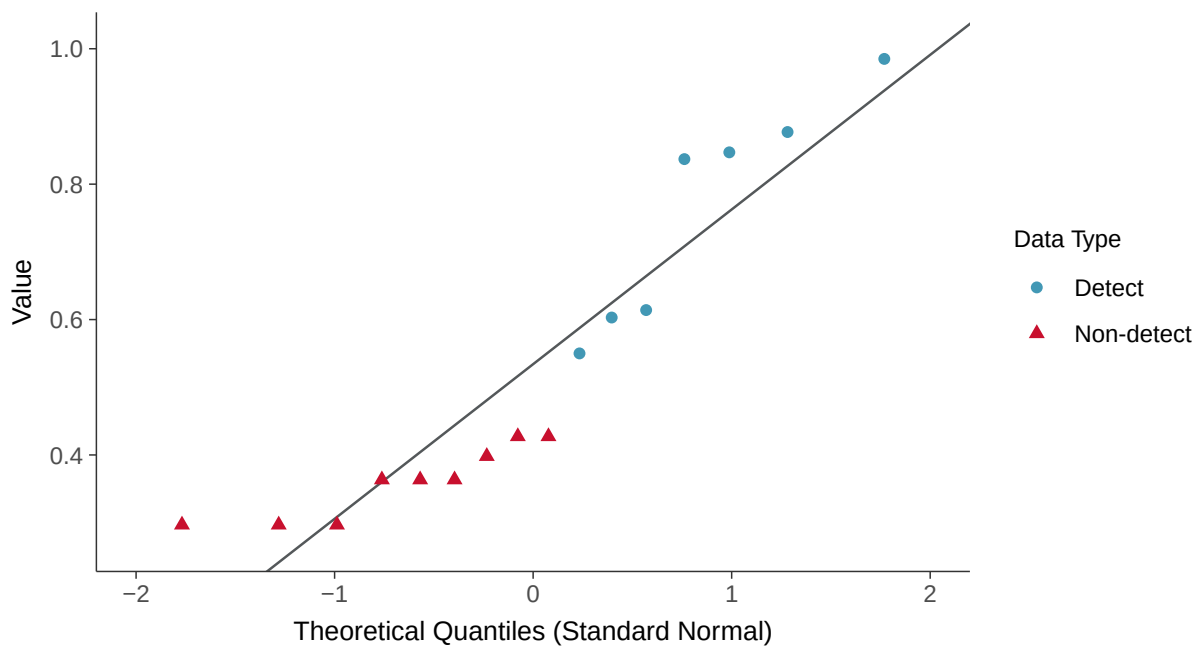
Boxplot by Season

Radium 226 and 228, MW-32 (pCi/L)



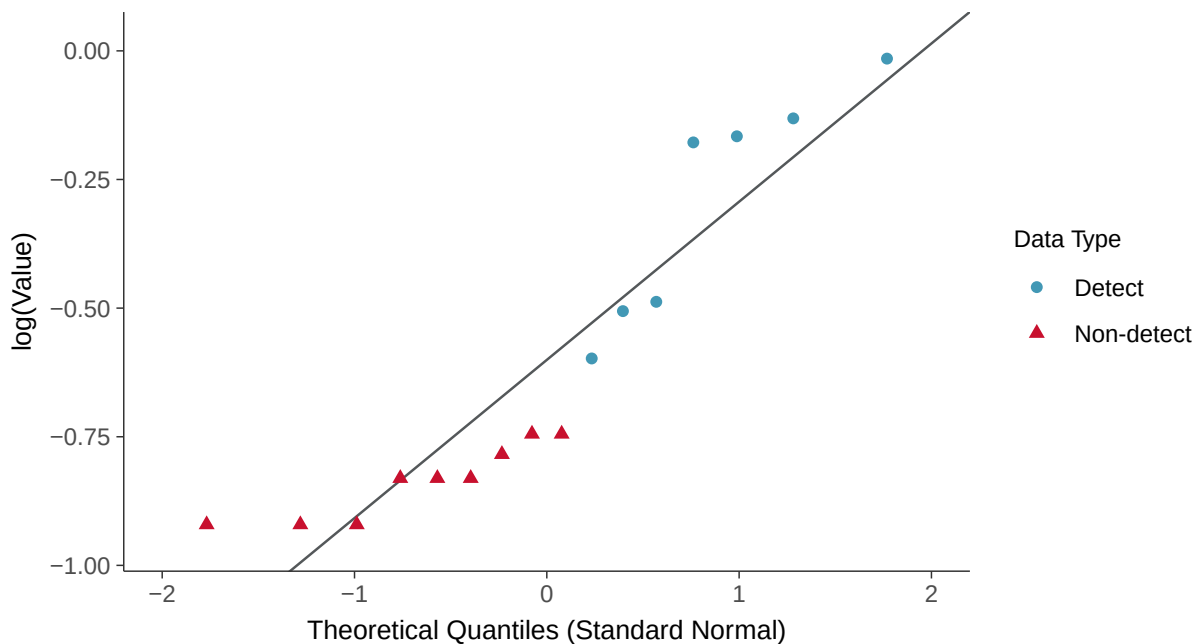
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



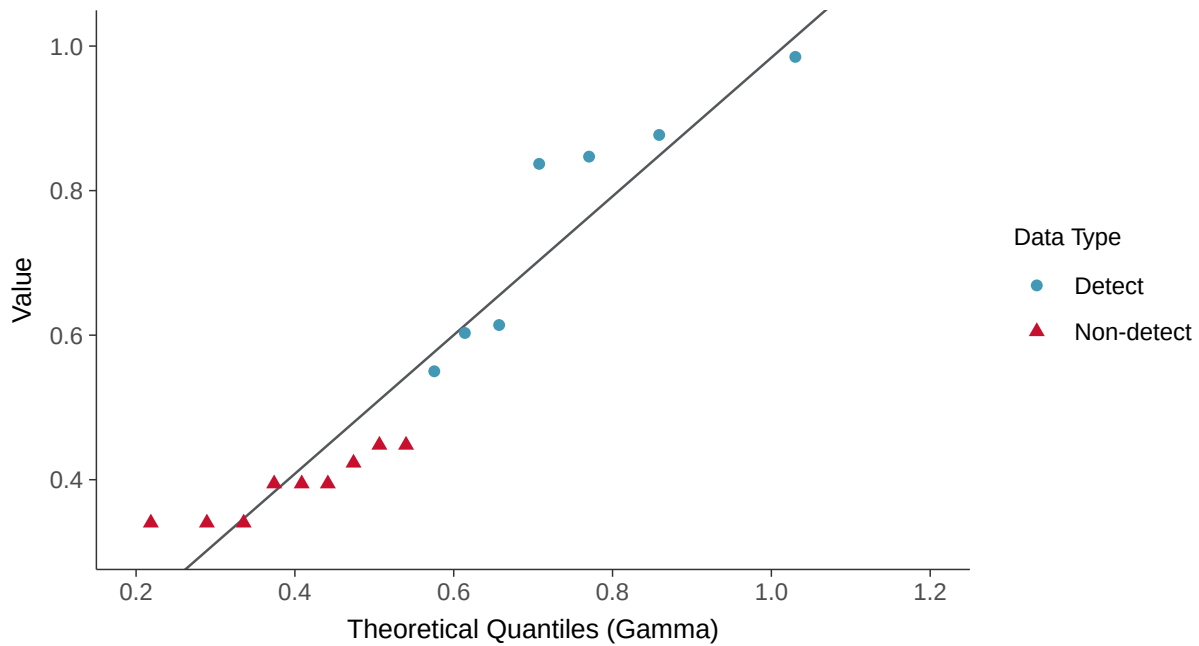
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



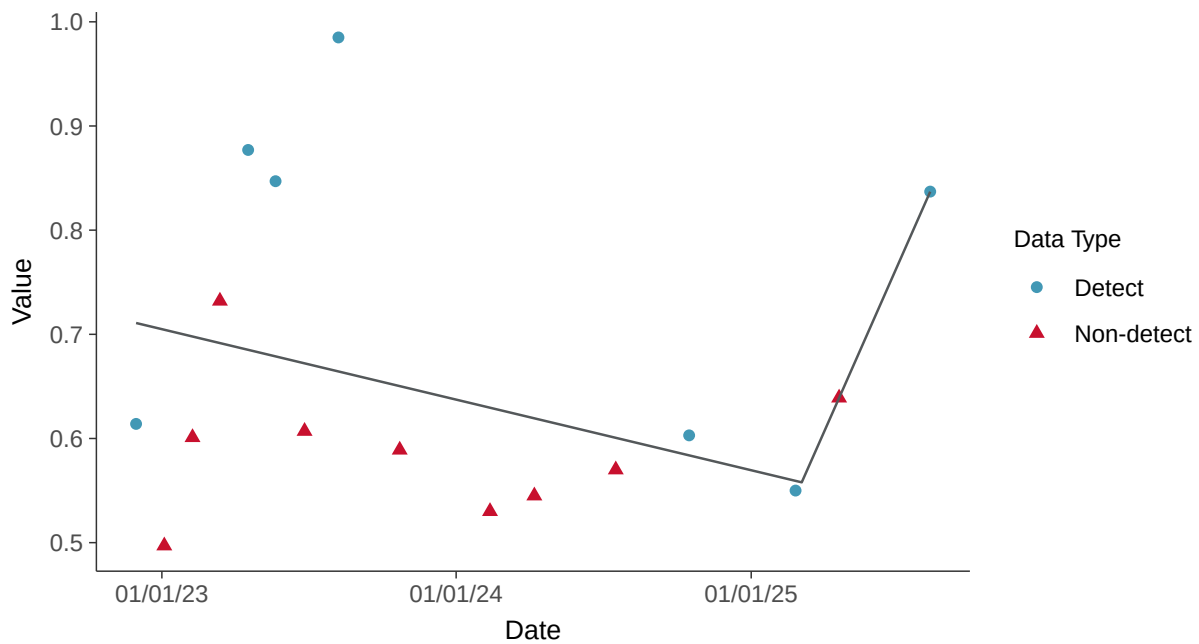
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



Trend Regression: Piecewise Linear-Linear

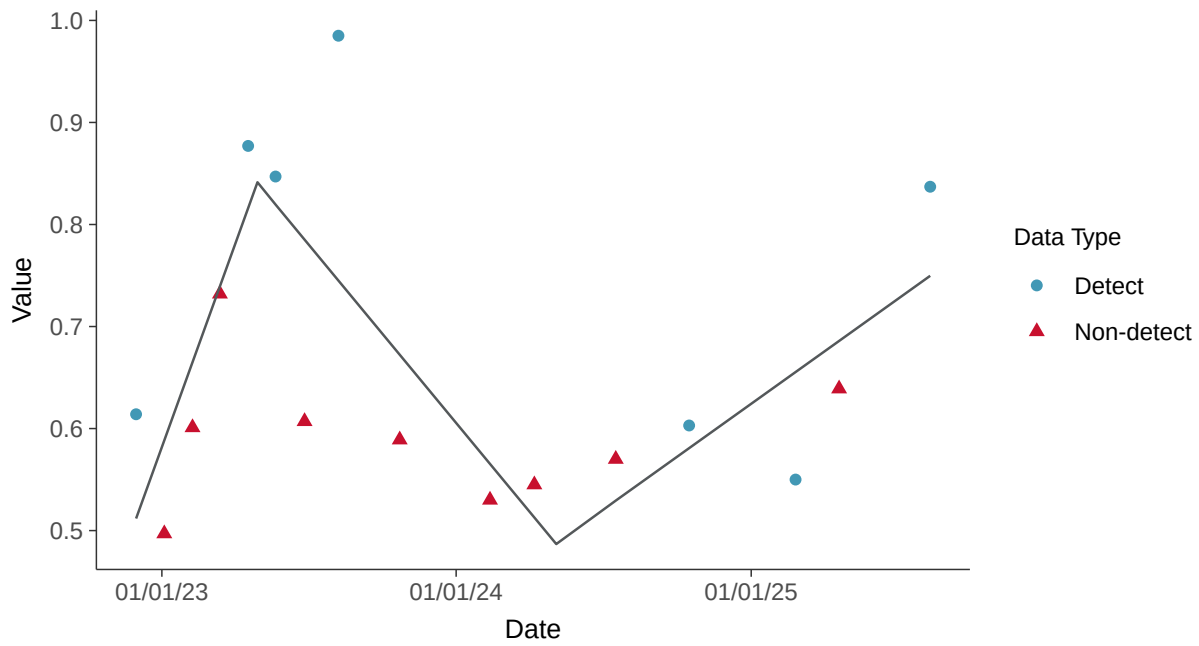
Radium 226 and 228, MW-32 (pCi/L)

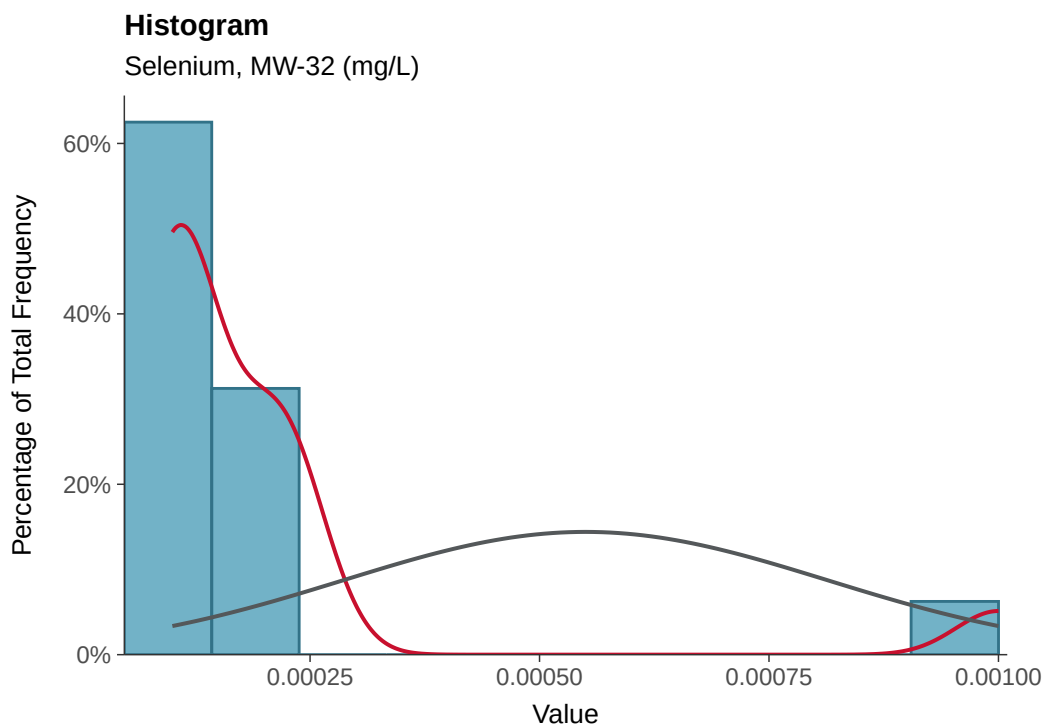




Trend Regression: Piecewise Linear-Linear-Linear

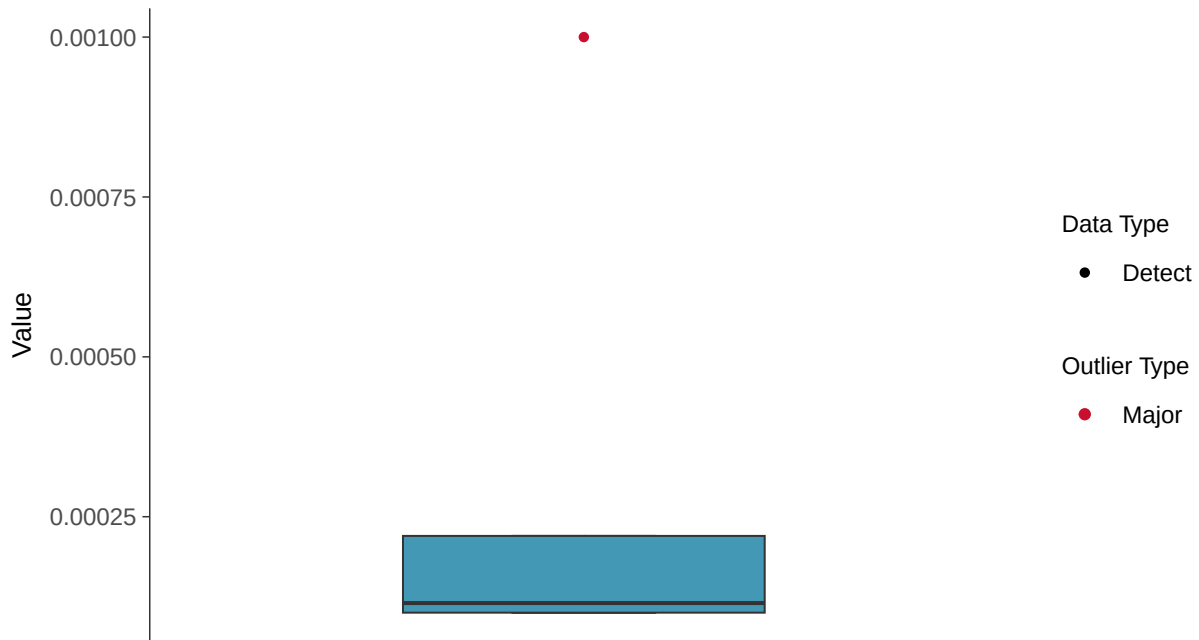
Radium 226 and 228, MW-32 (pCi/L)





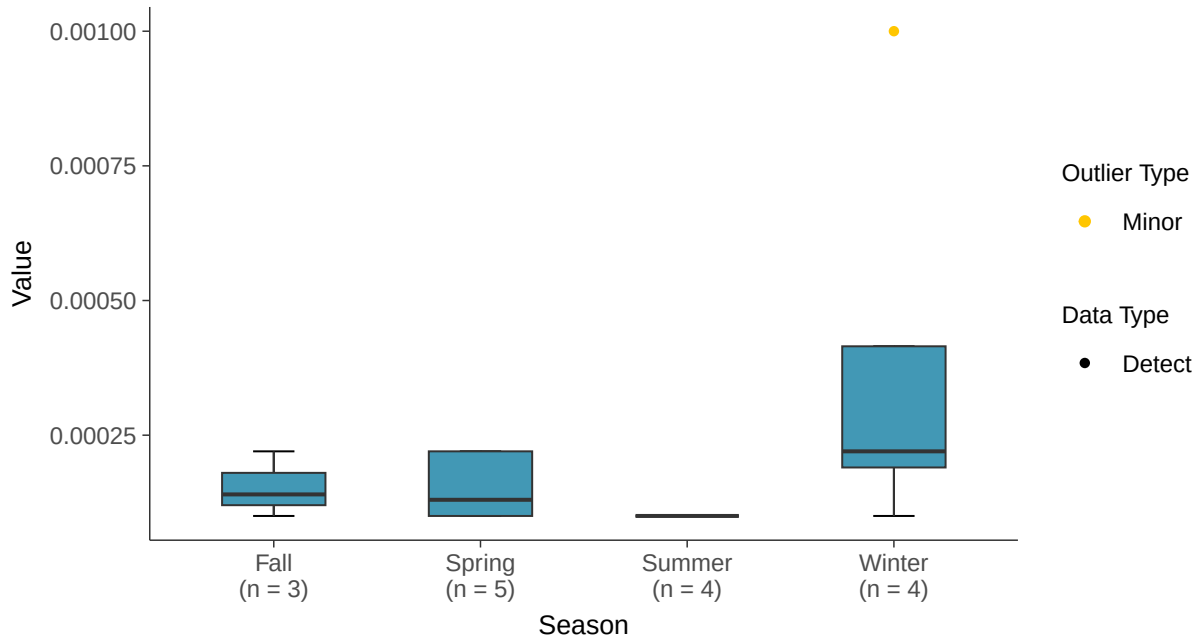
Boxplot

Selenium, MW-32 (mg/L)



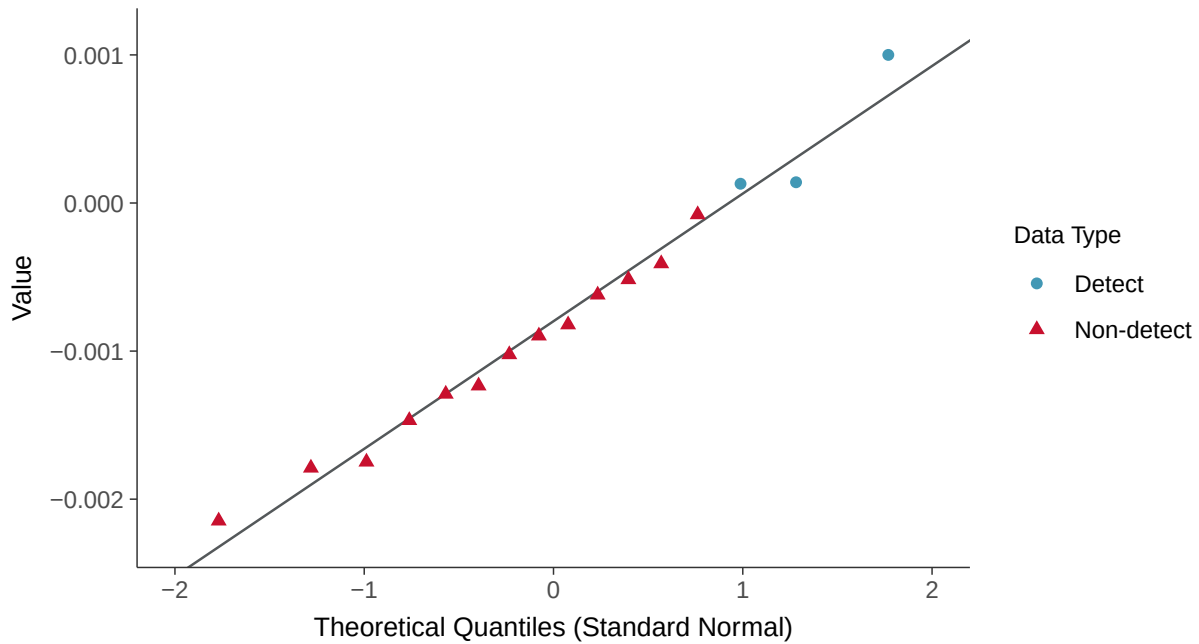
Boxplot by Season

Selenium, MW-32 (mg/L)



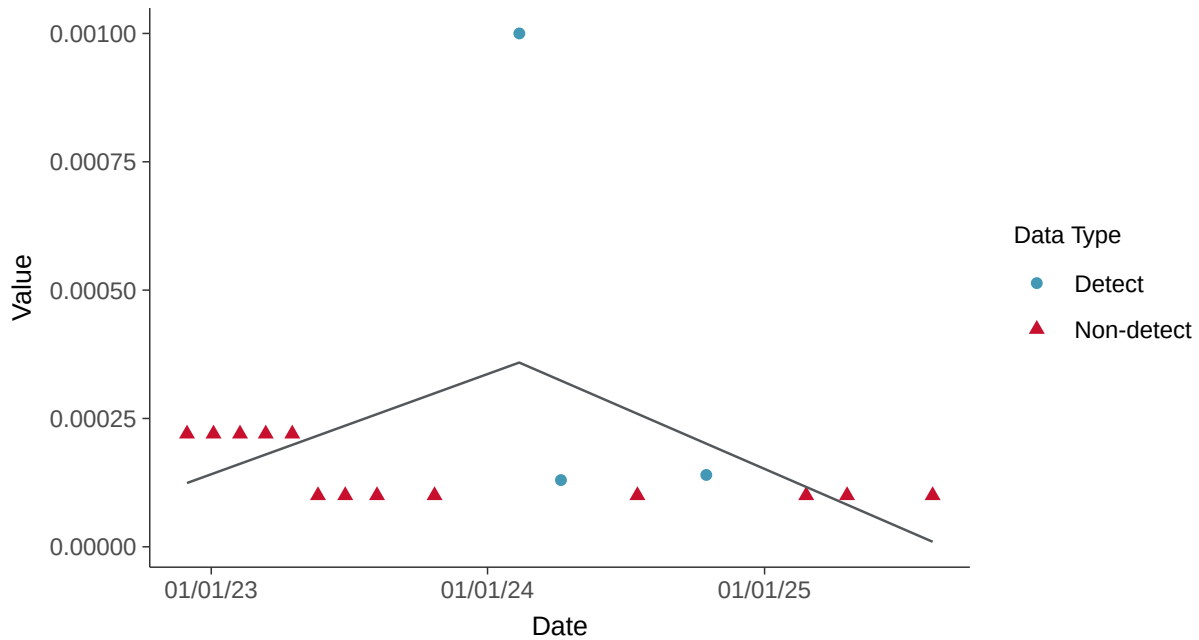
Normal Q-Q plot using ROS Imputed Estimates

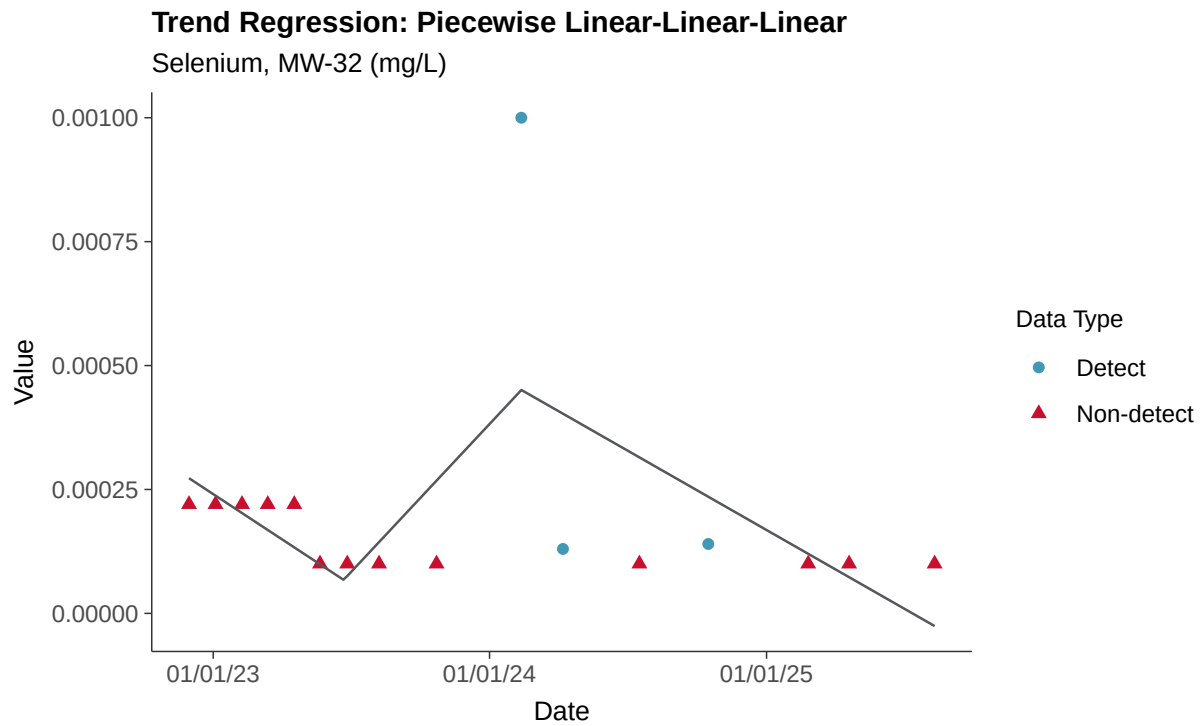
Selenium, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-32 (mg/L)

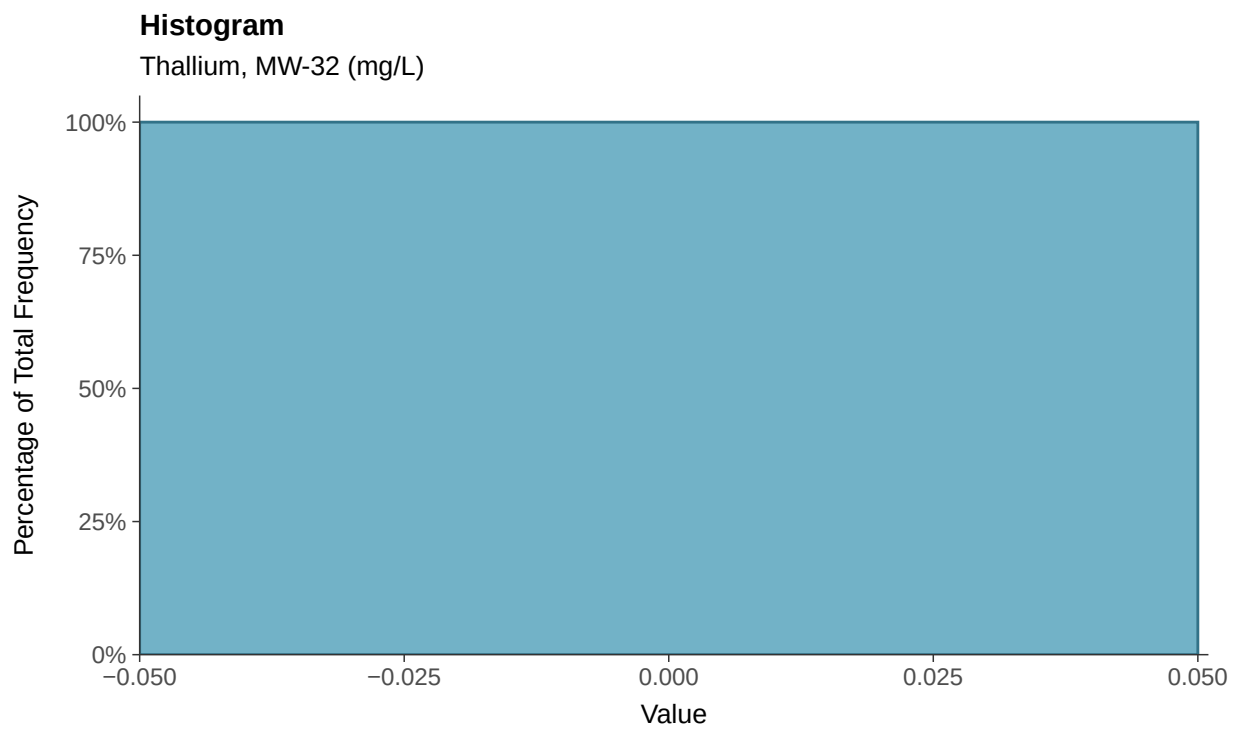
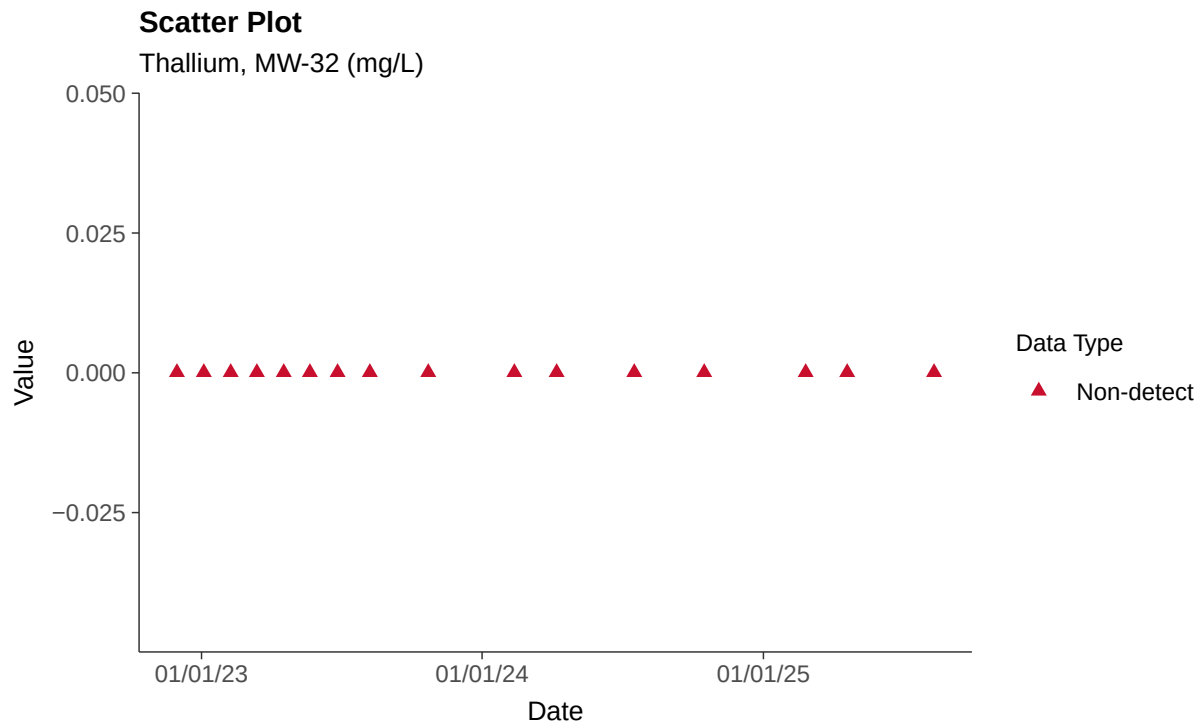






Appendix IV: Thallium, MW-32

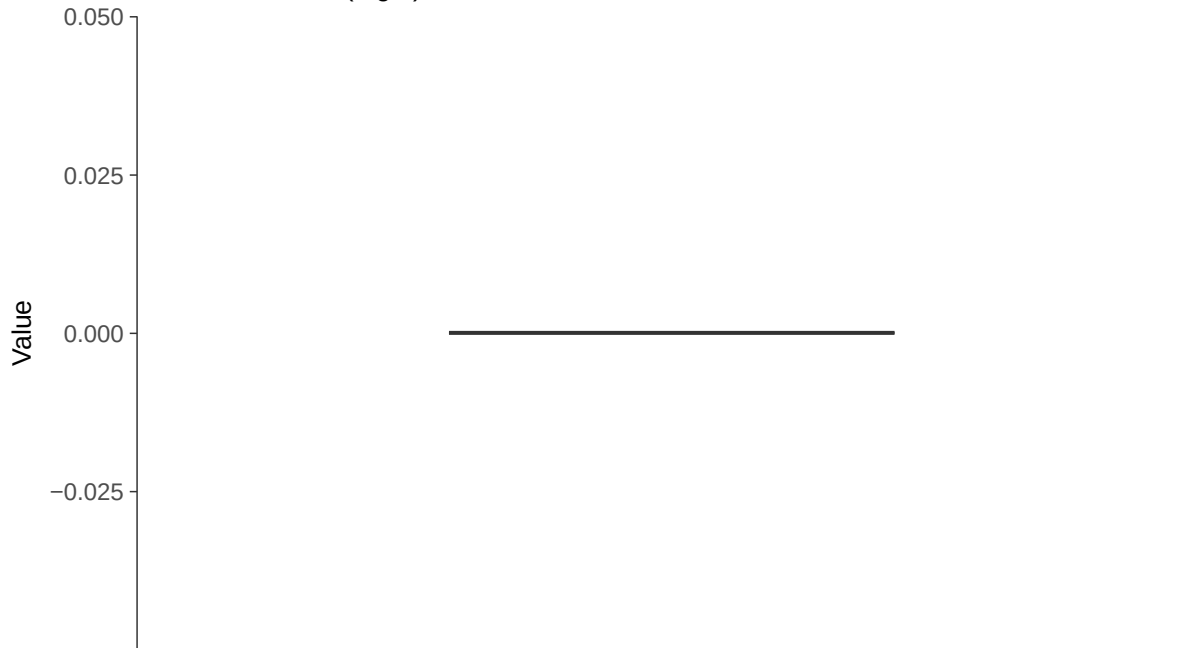
ID: 42_1_4_125





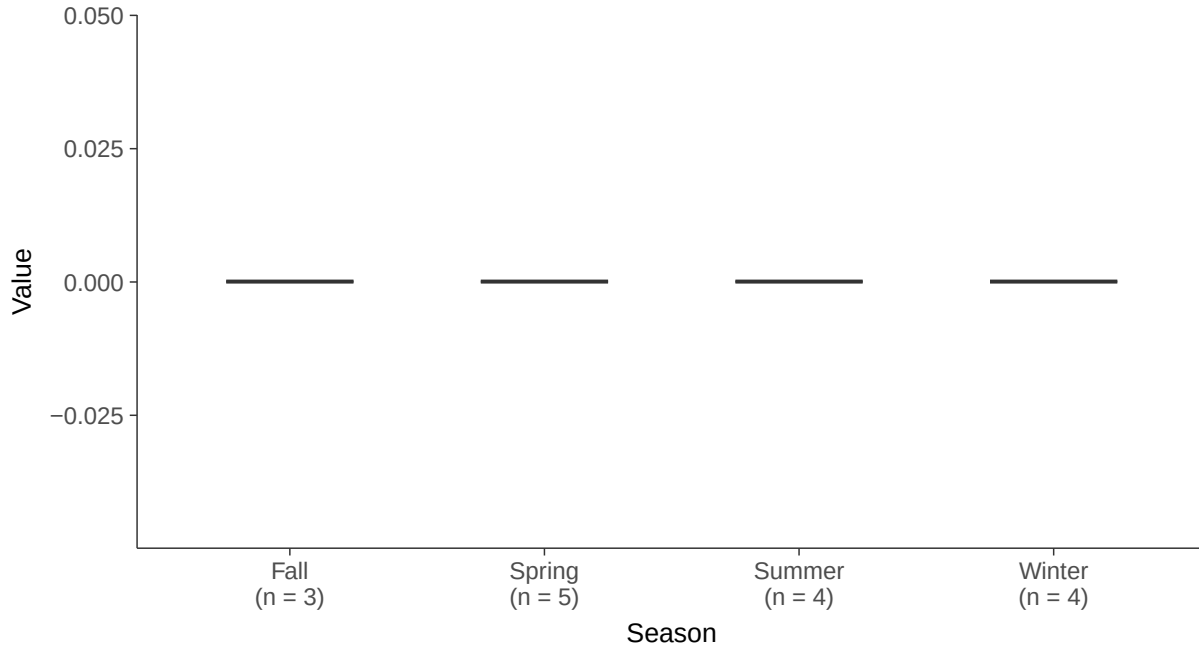
Boxplot

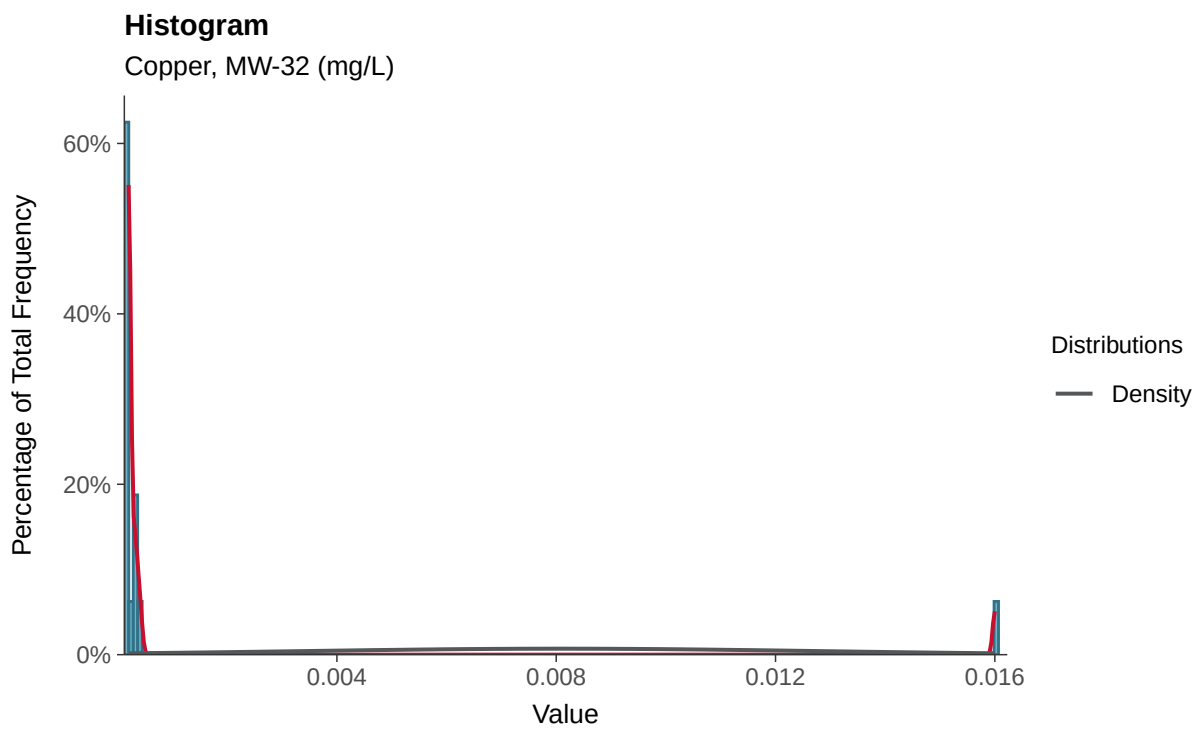
Thallium, MW-32 (mg/L)



Boxplot by Season

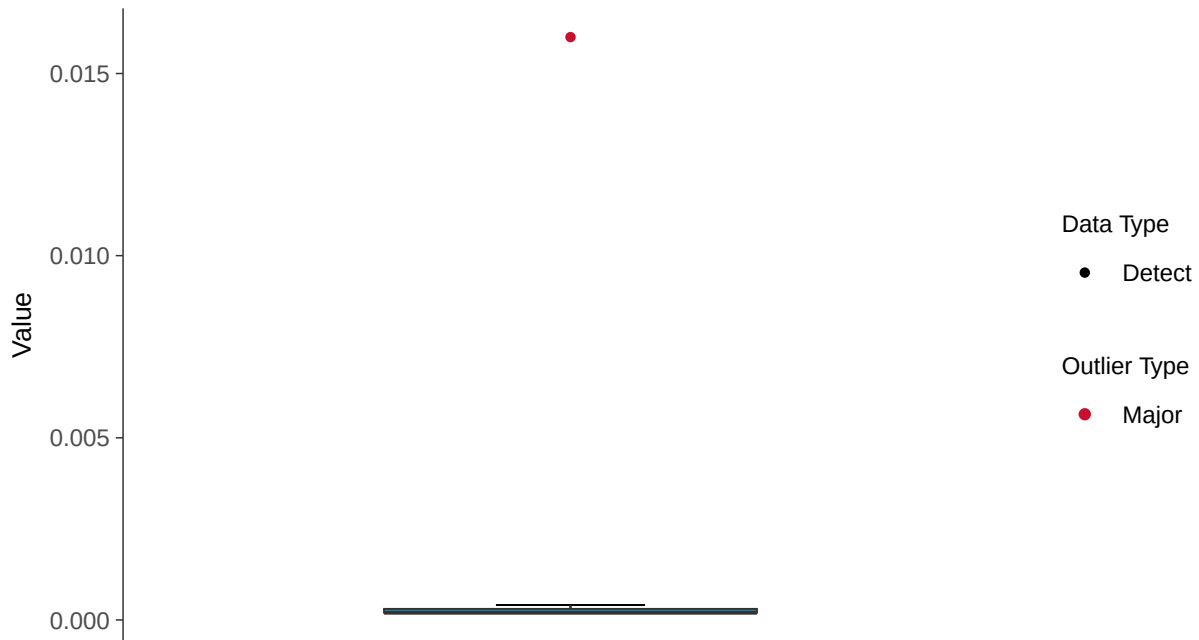
Thallium, MW-32 (mg/L)





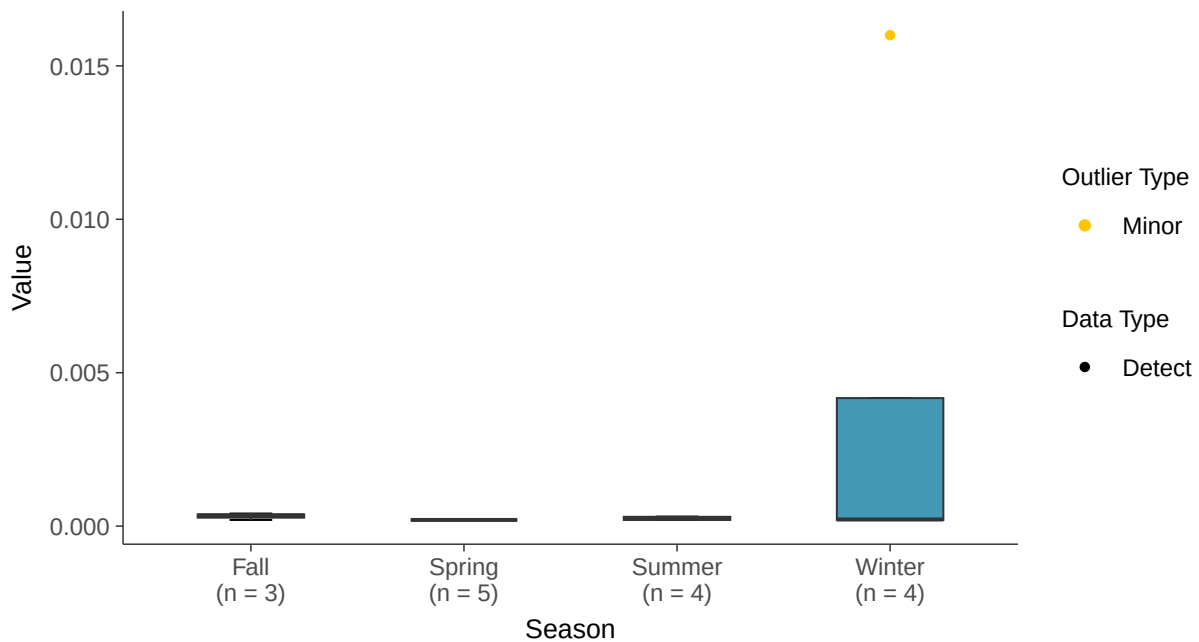
Boxplot

Copper, MW-32 (mg/L)



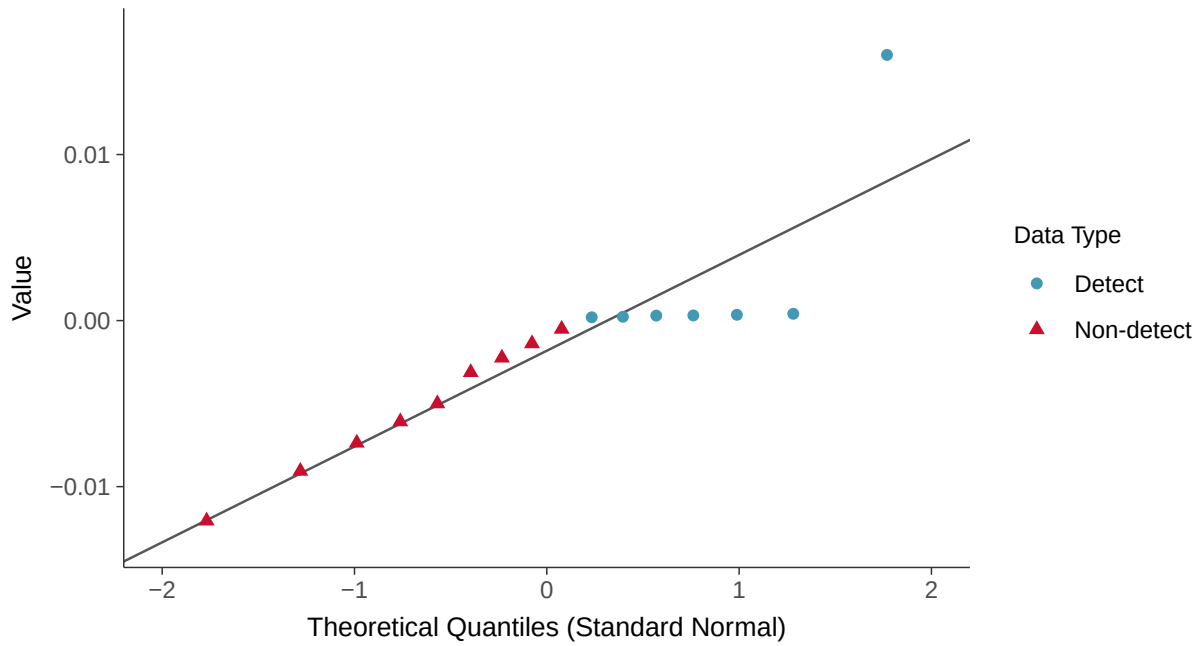
Boxplot by Season

Copper, MW-32 (mg/L)



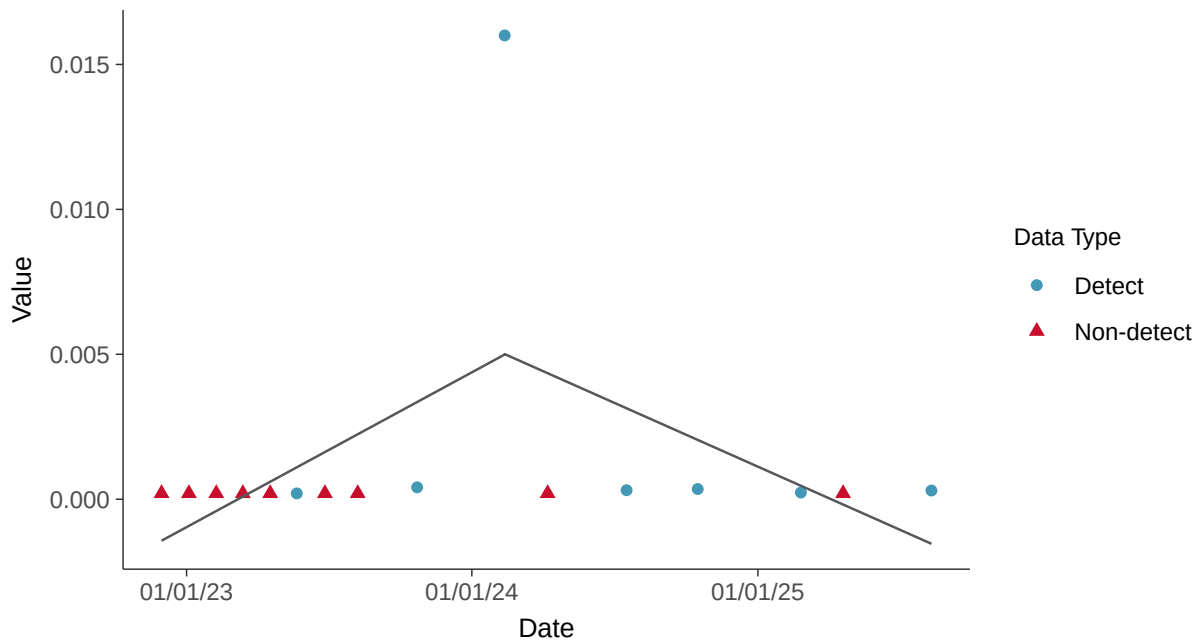
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-32 (mg/L)



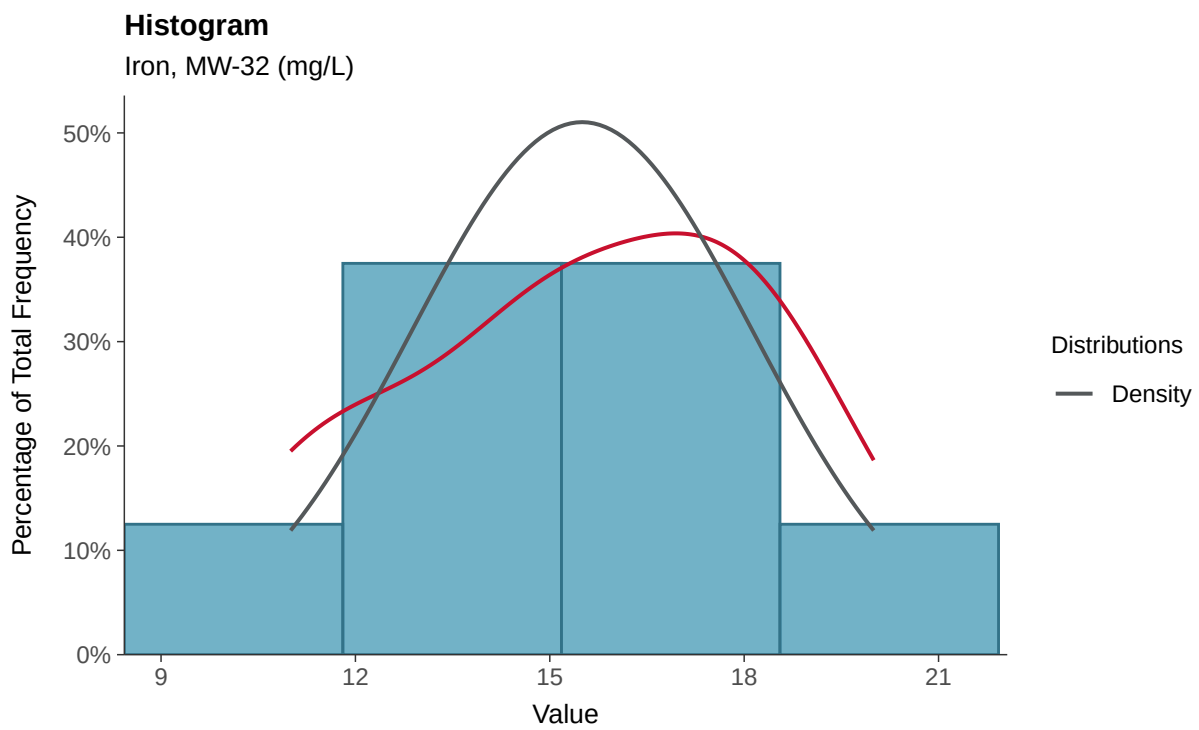
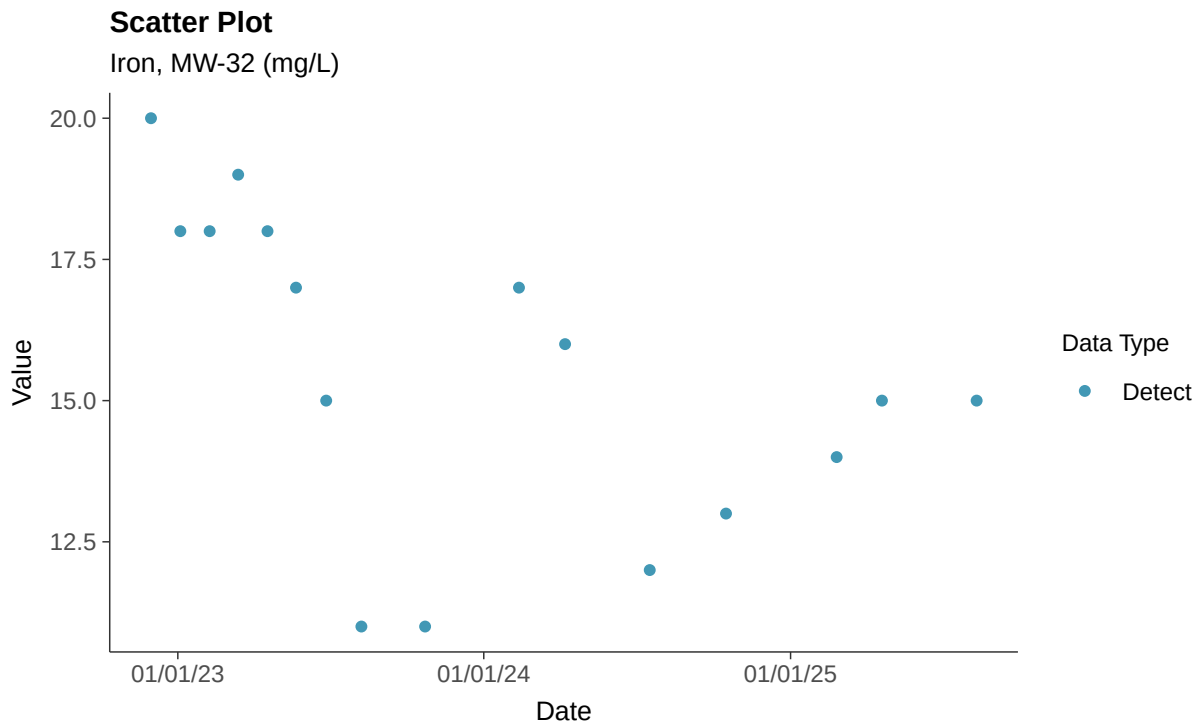
Trend Regression: Piecewise Linear-Linear

Copper, MW-32 (mg/L)



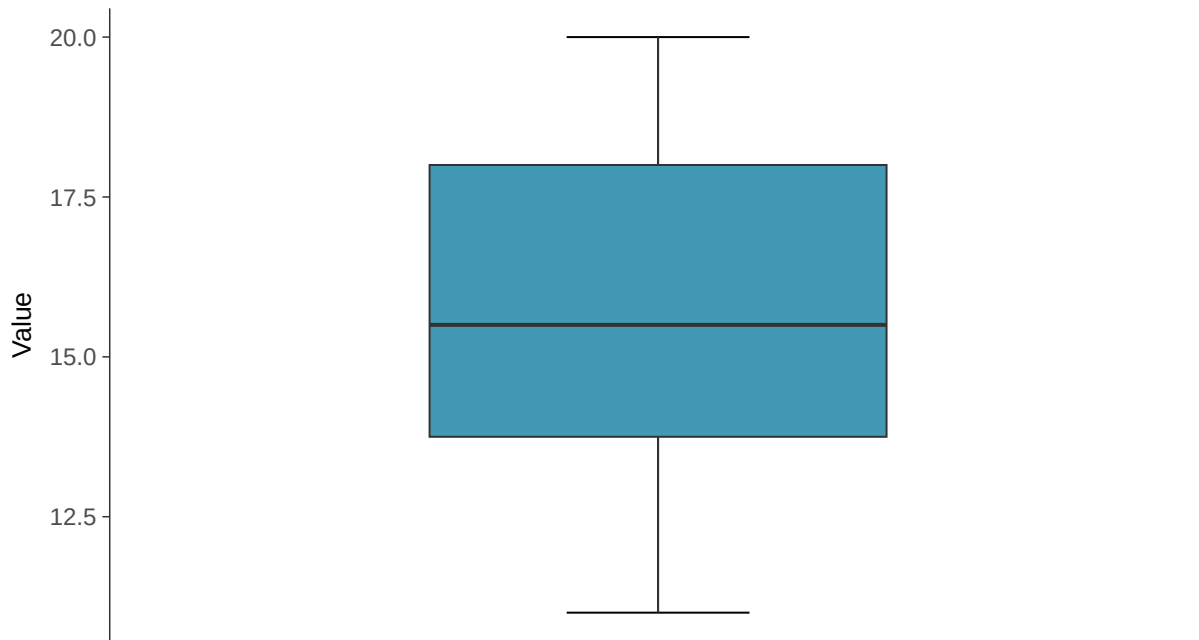
Part 115: Iron, MW-32

ID: 42_1_5_114



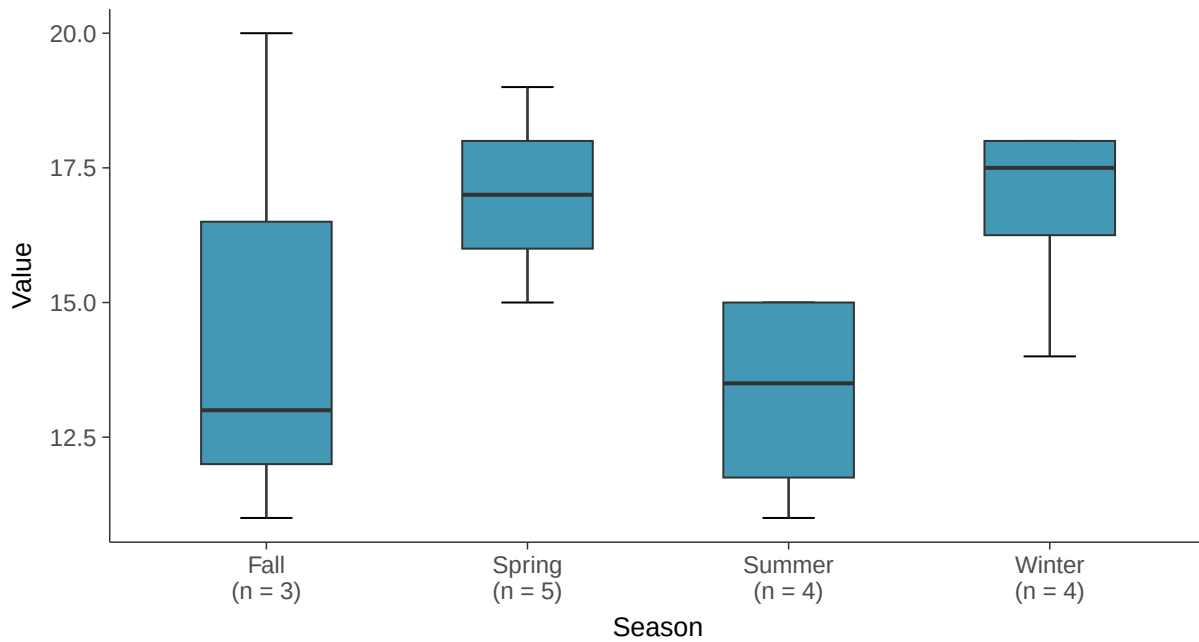
Boxplot

Iron, MW-32 (mg/L)

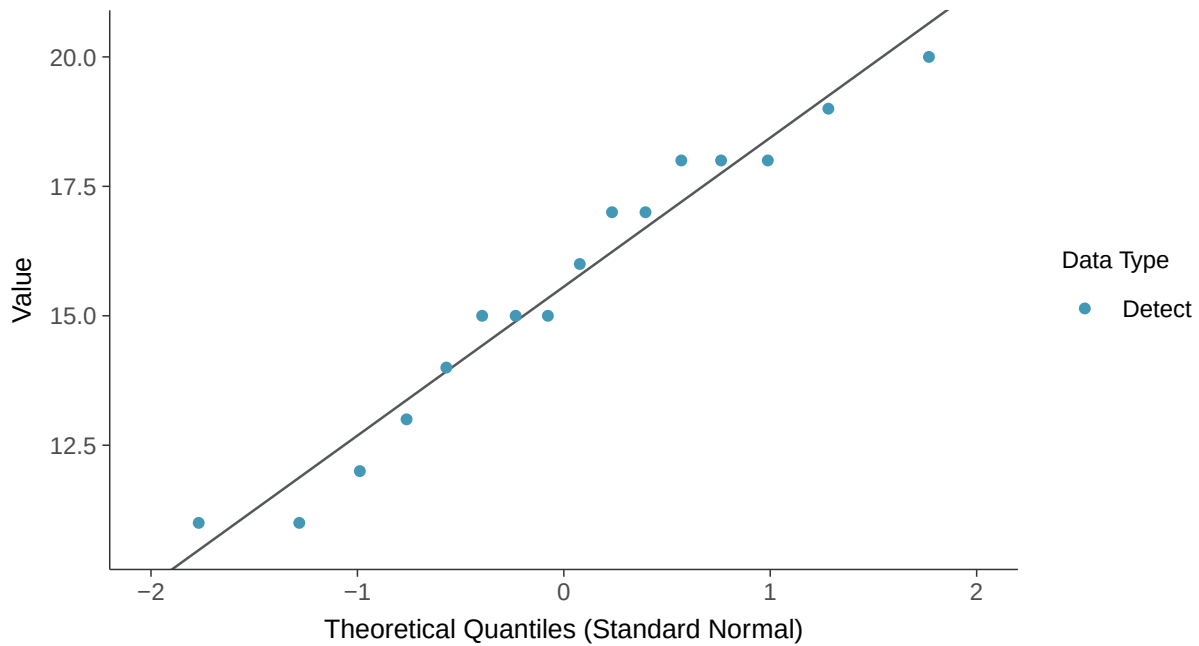


Boxplot by Season

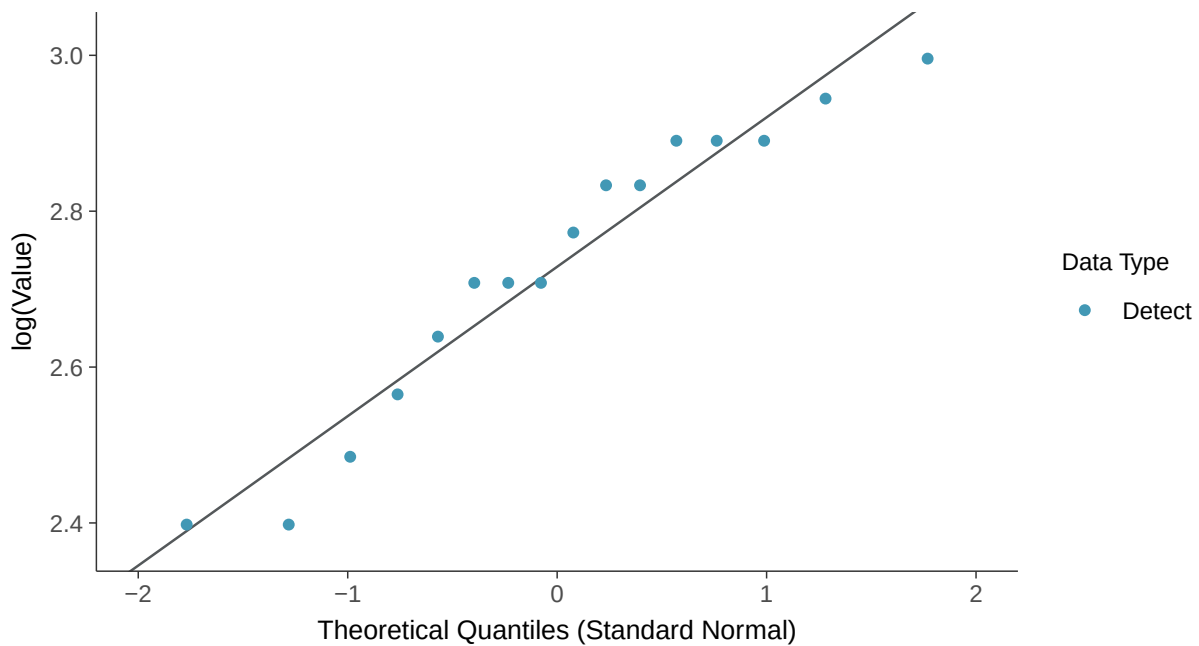
Iron, MW-32 (mg/L)

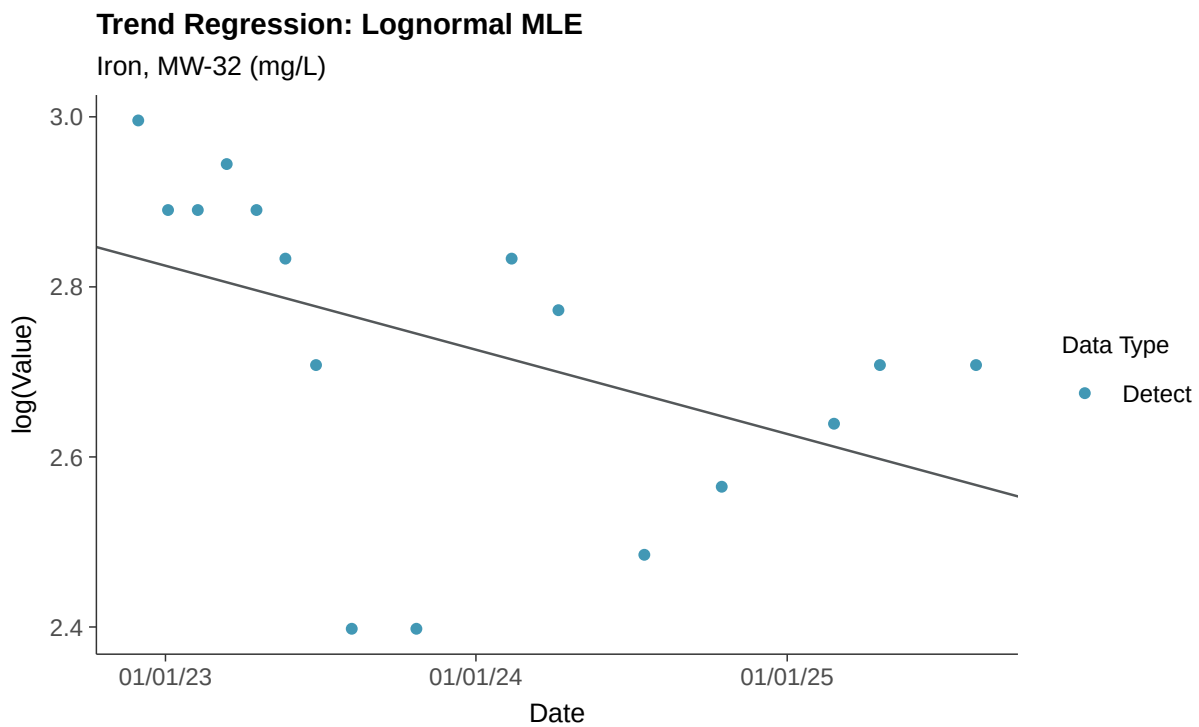
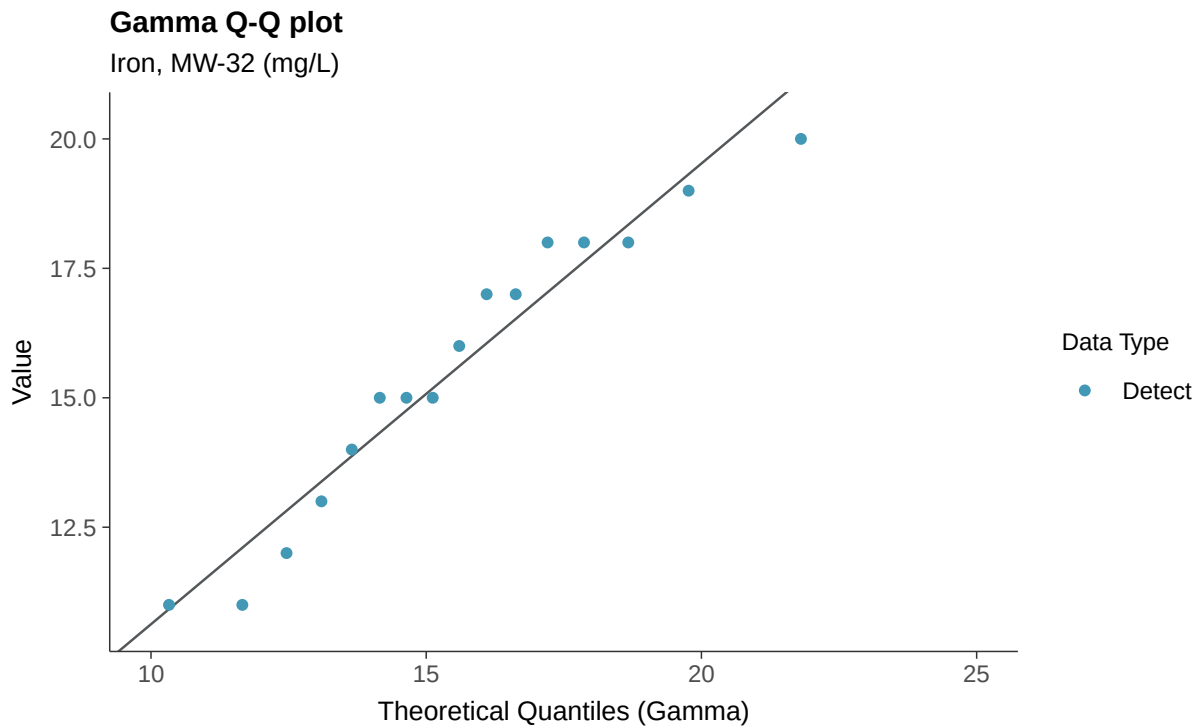


Normal Q-Q plot
Iron, MW-32 (mg/L)



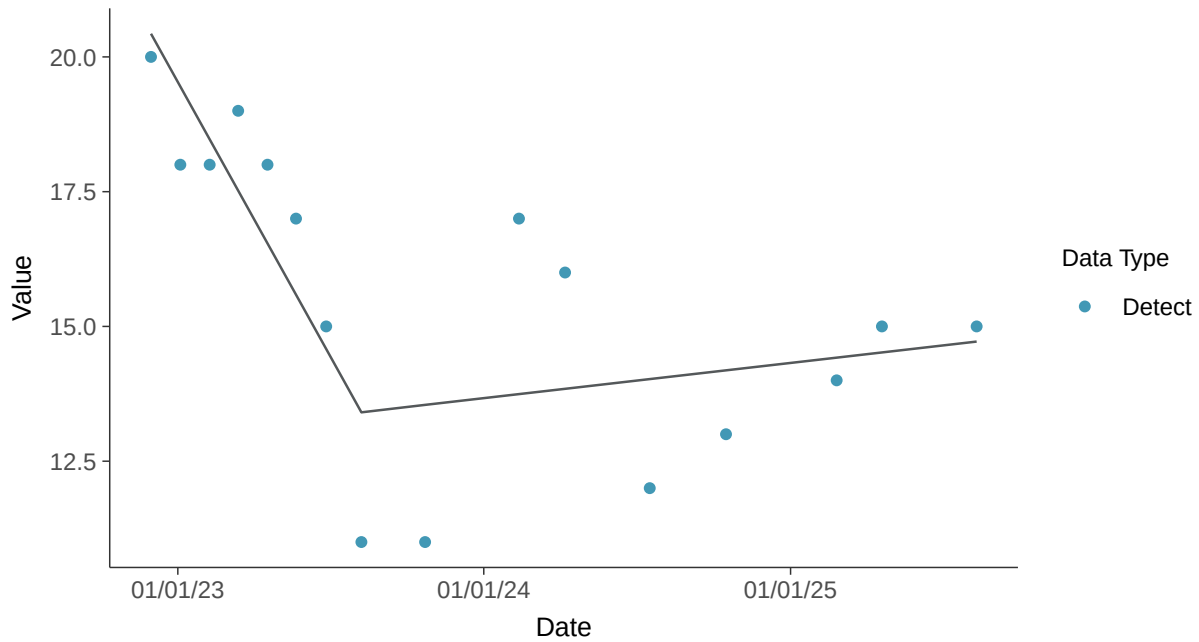
Lognormal Q-Q plot
Iron, MW-32 (mg/L)





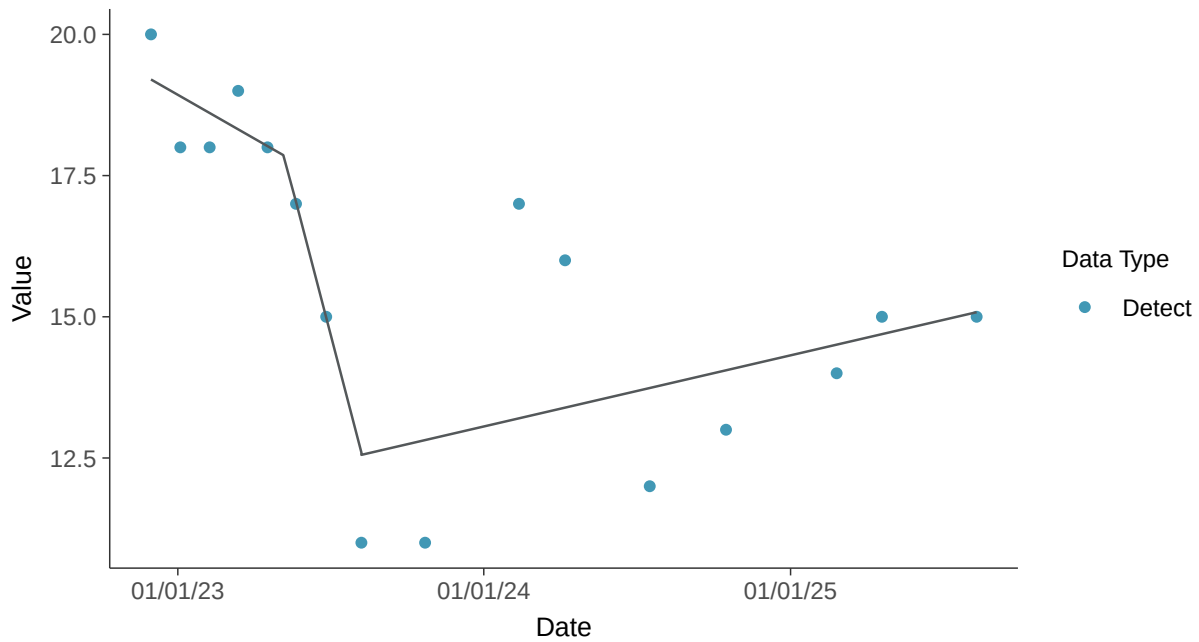
Trend Regression: Piecewise Linear-Linear

Iron, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-32 (mg/L)

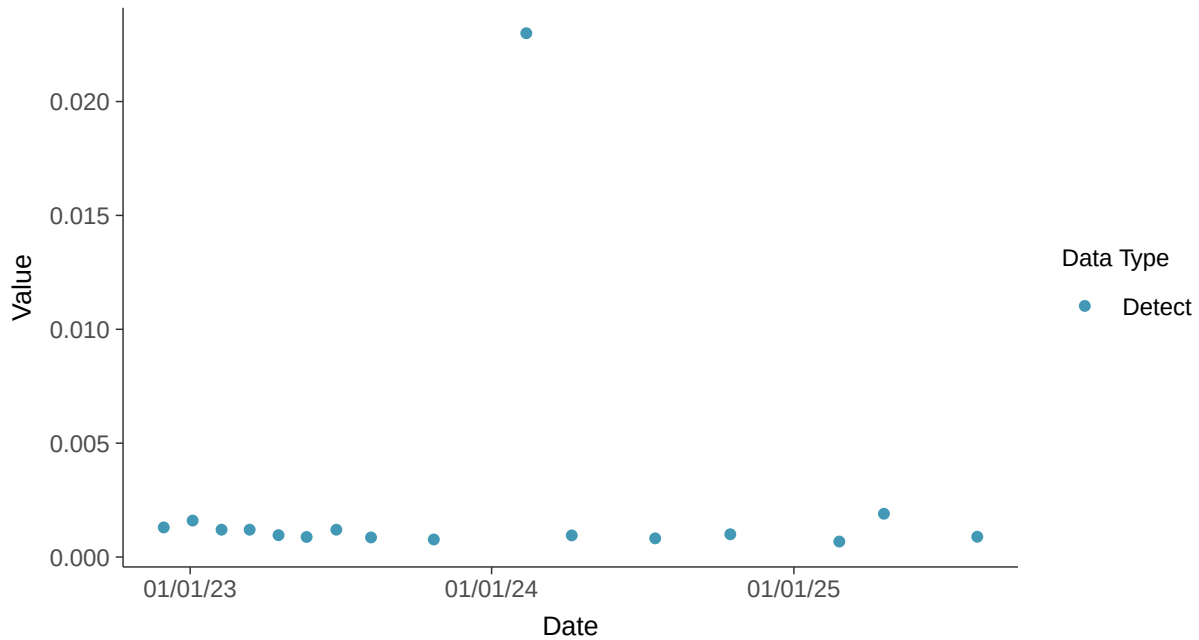


Part 115: Nickel, MW-32

ID: 42_1_5_119

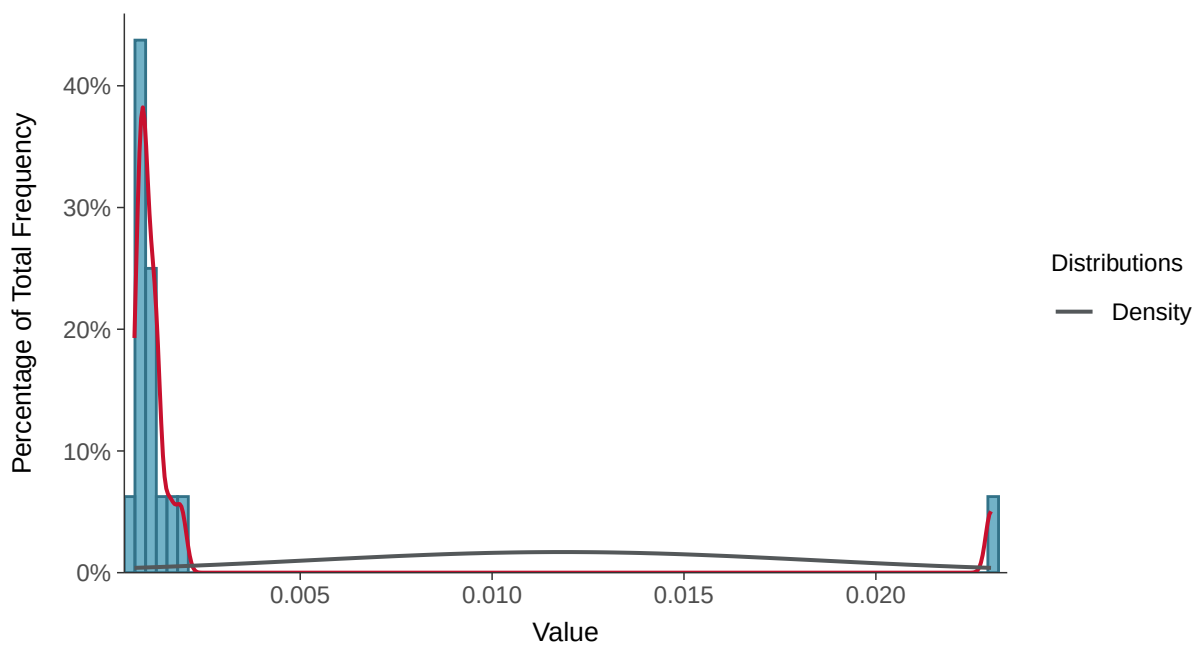
Scatter Plot

Nickel, MW-32 (mg/L)



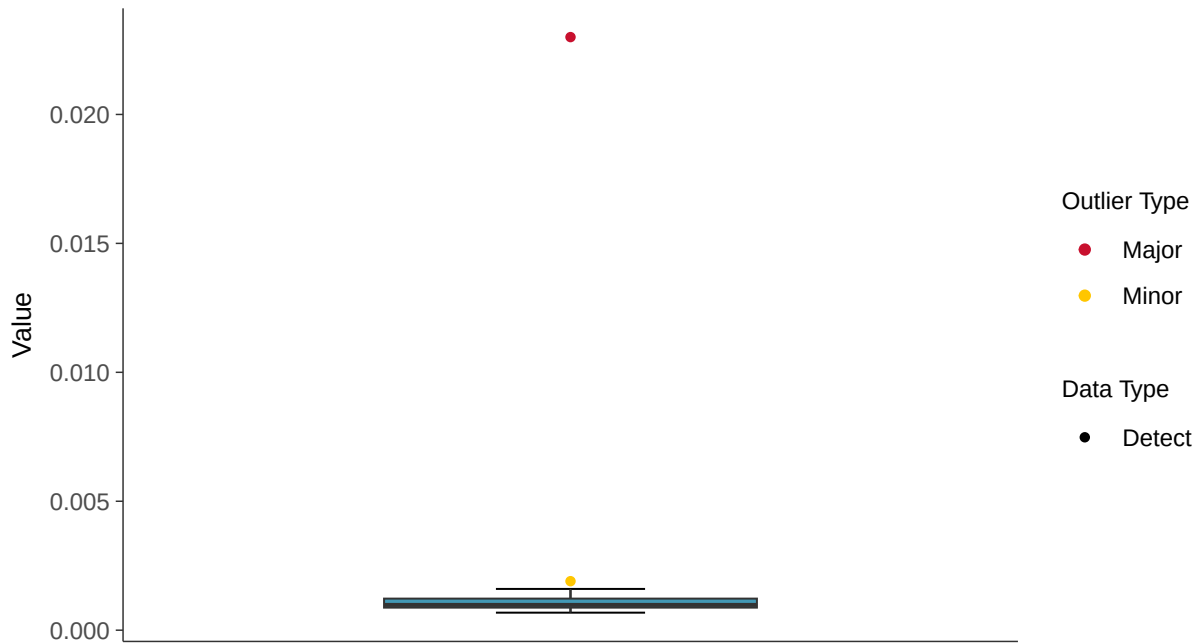
Histogram

Nickel, MW-32 (mg/L)



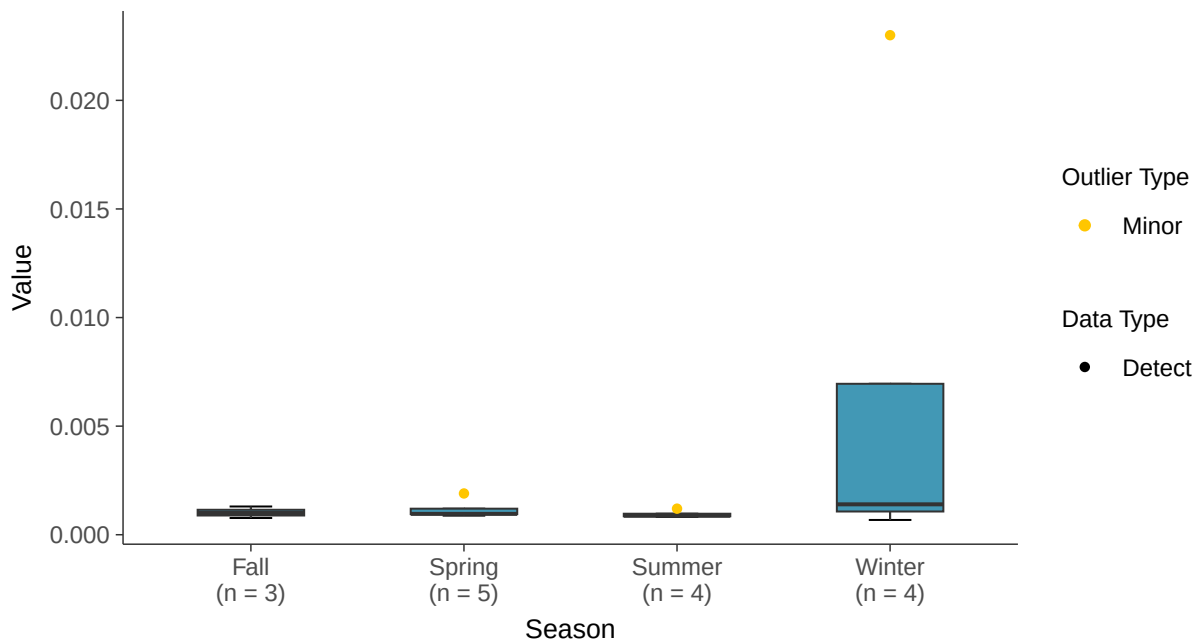
Boxplot

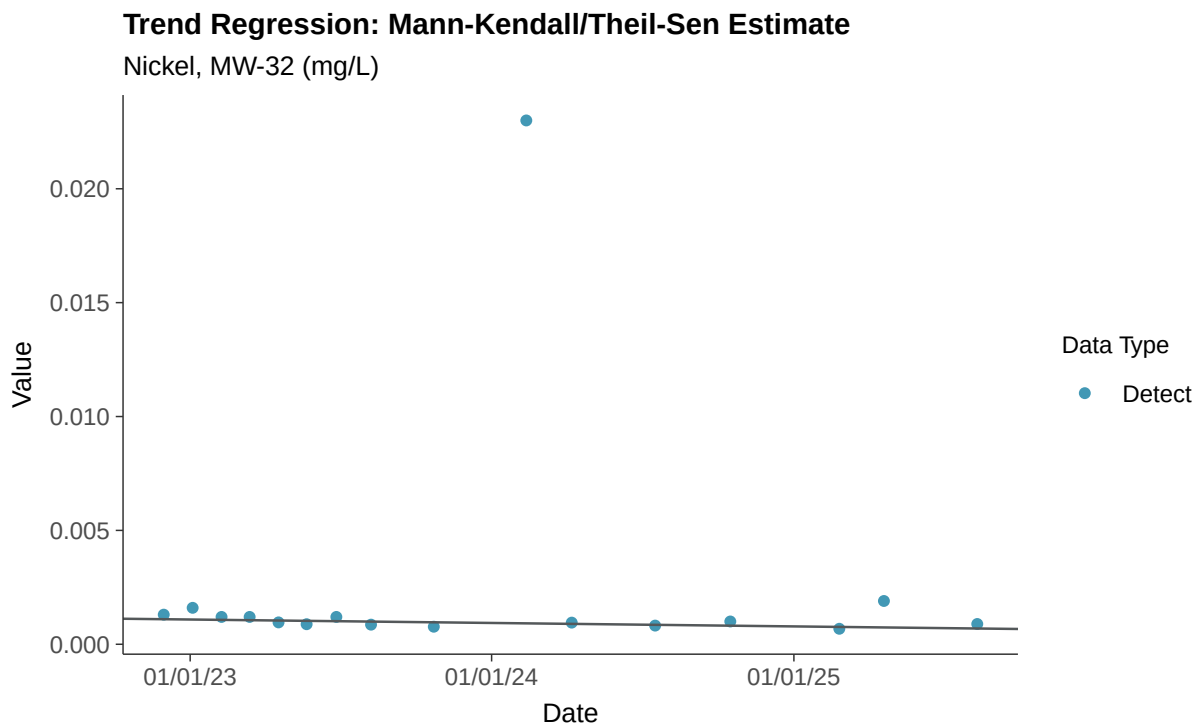
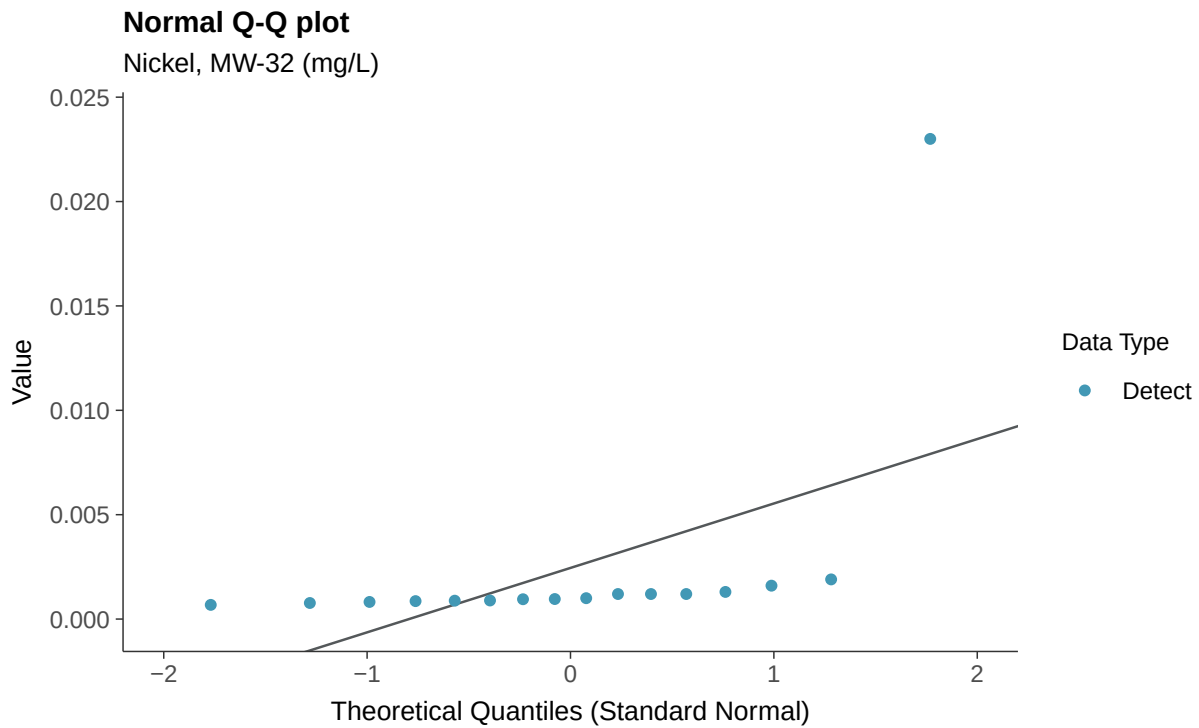
Nickel, MW-32 (mg/L)



Boxplot by Season

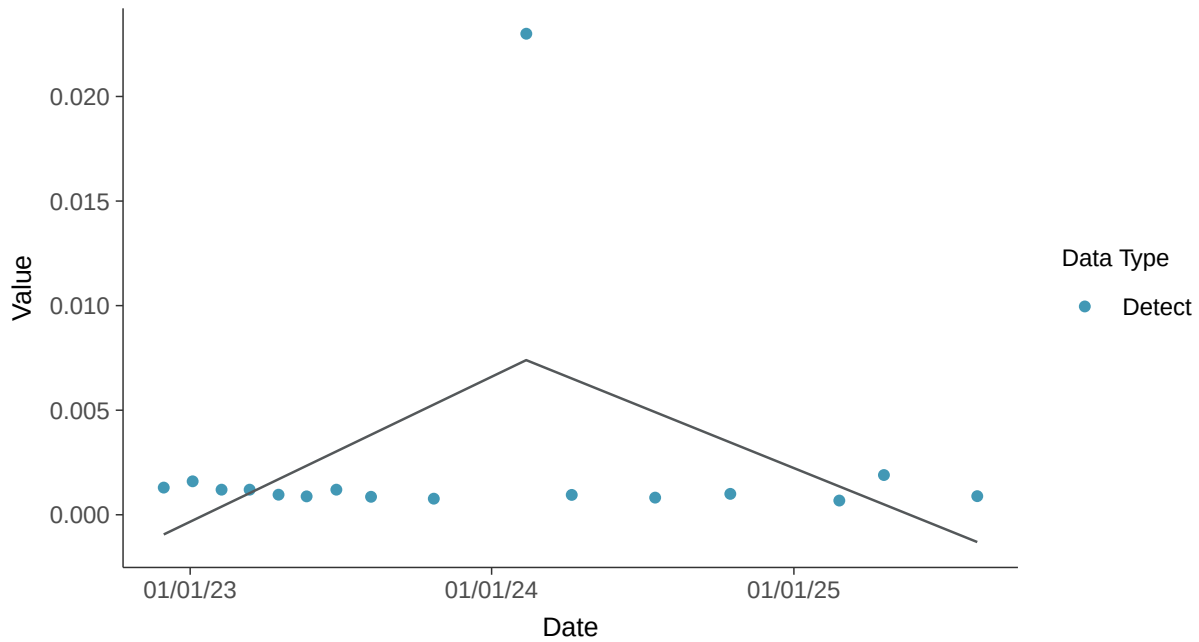
Nickel, MW-32 (mg/L)





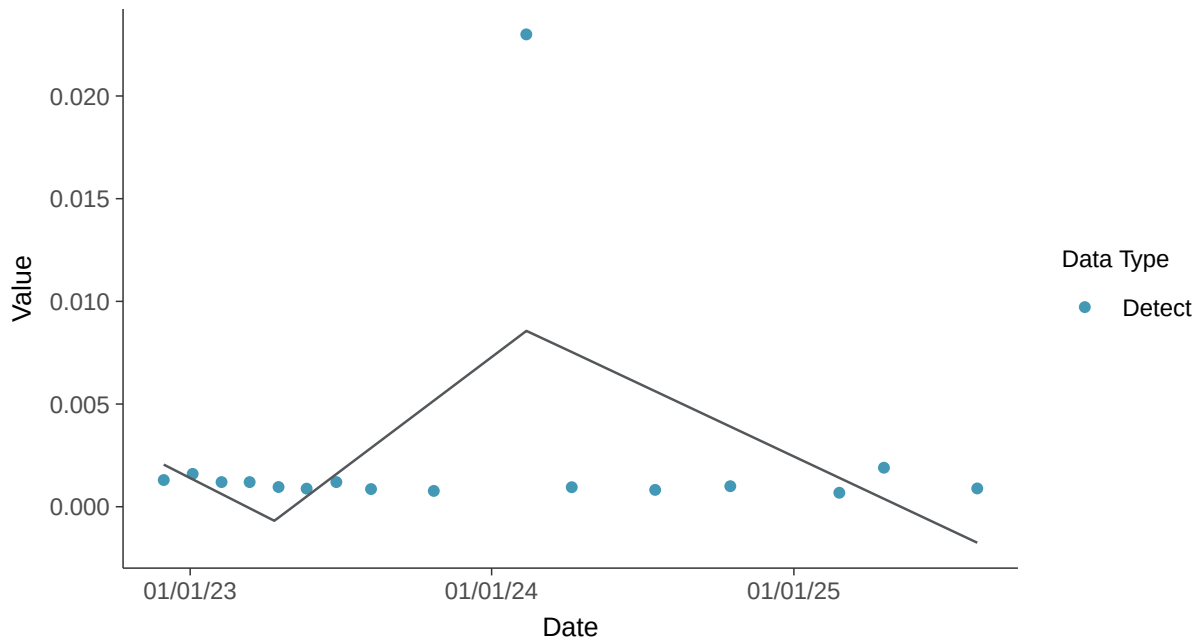
Trend Regression: Piecewise Linear-Linear

Nickel, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

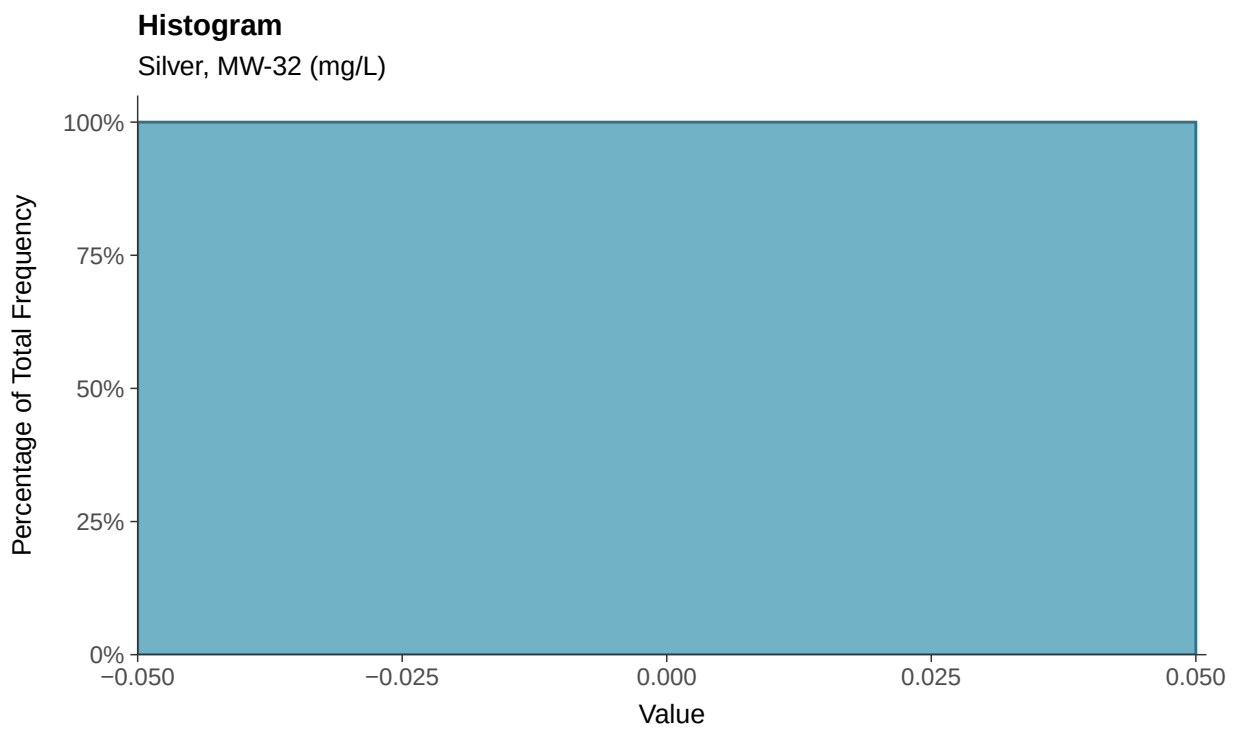
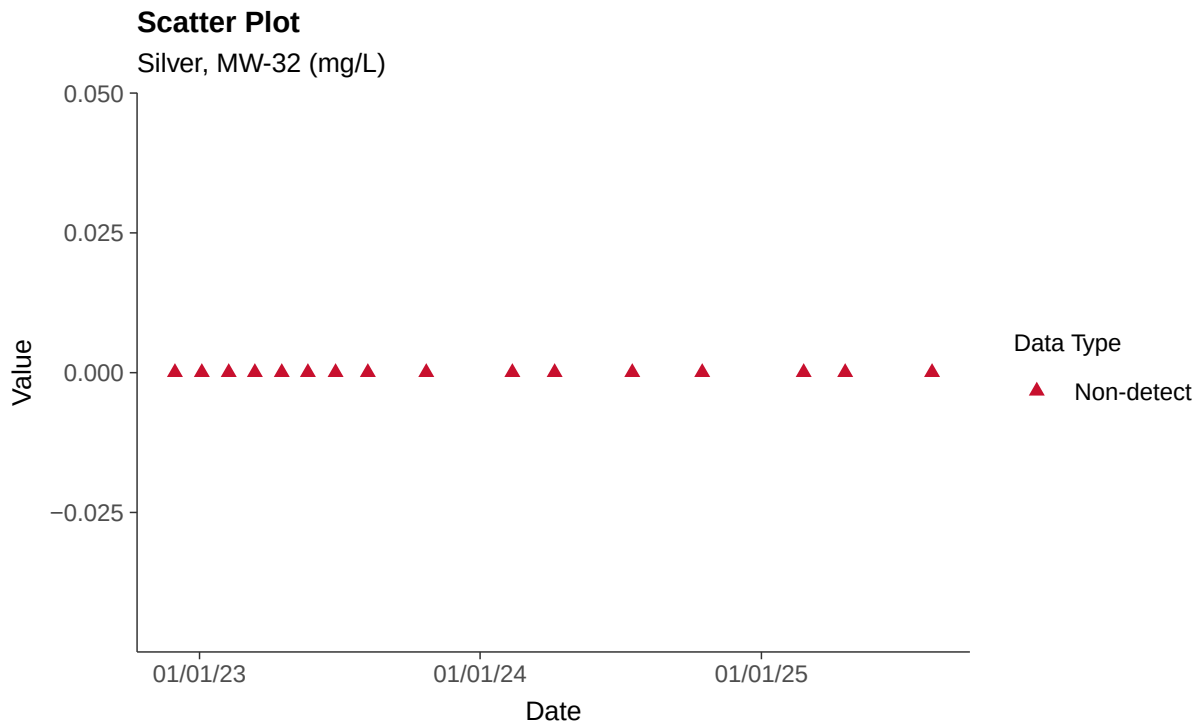
Nickel, MW-32 (mg/L)





Part 115: Silver, MW-32

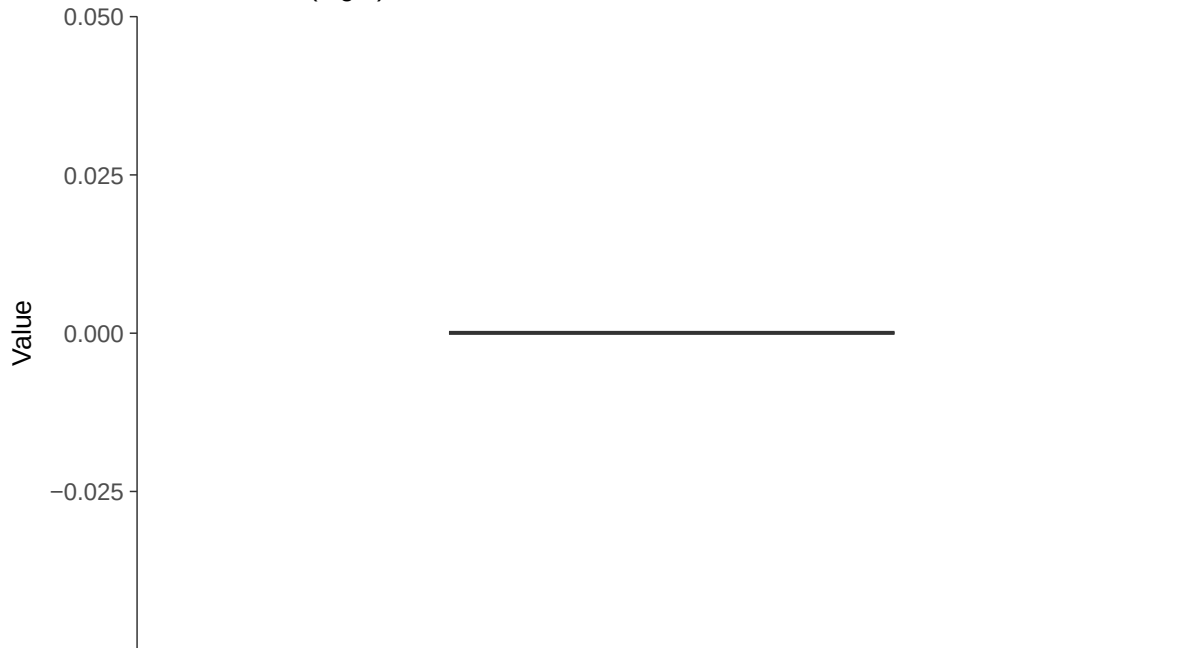
ID: 42_1_5_123





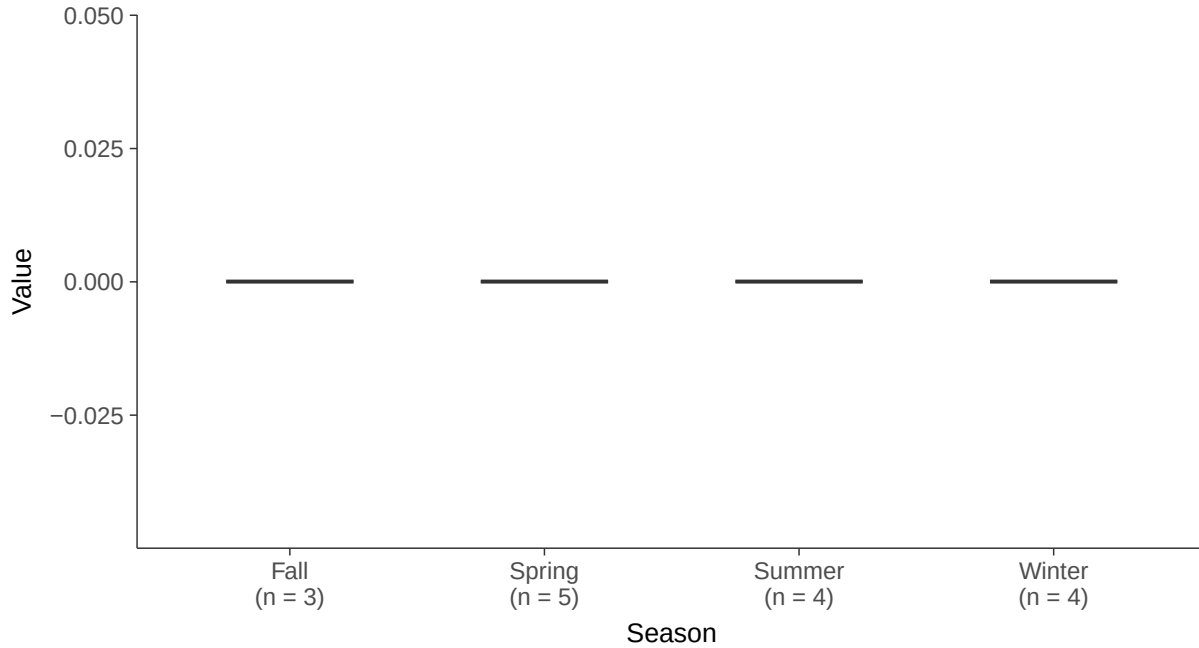
Boxplot

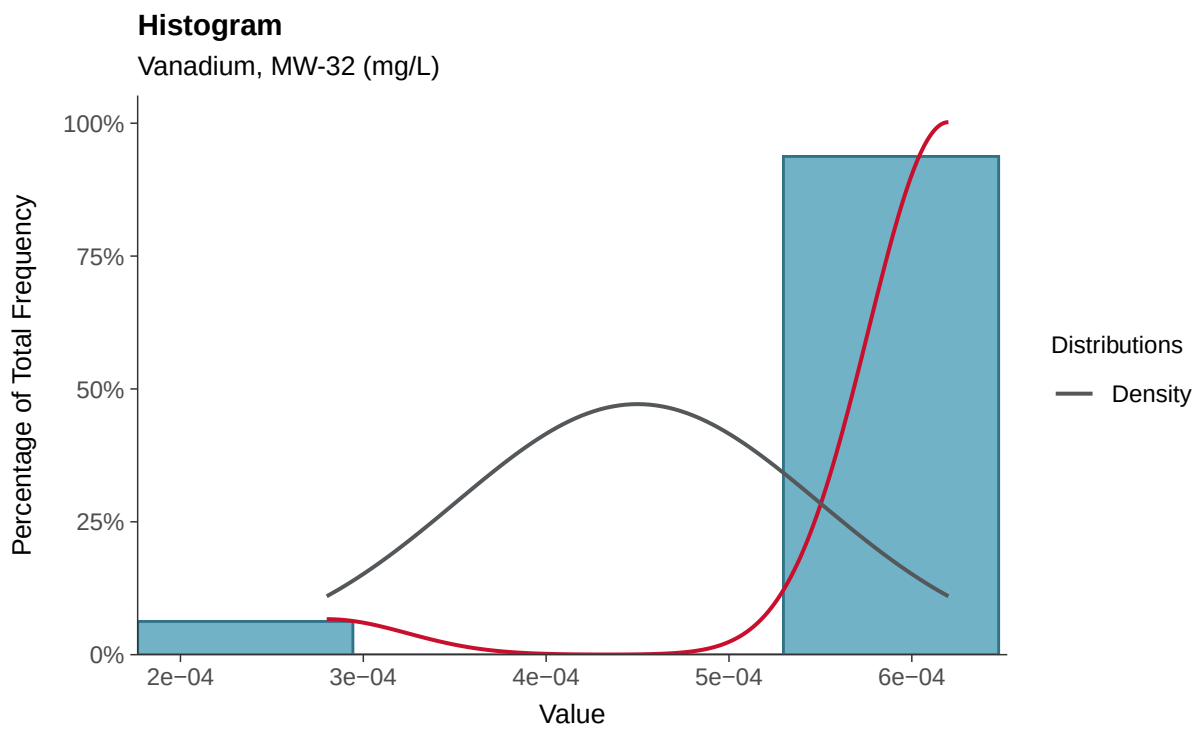
Silver, MW-32 (mg/L)



Boxplot by Season

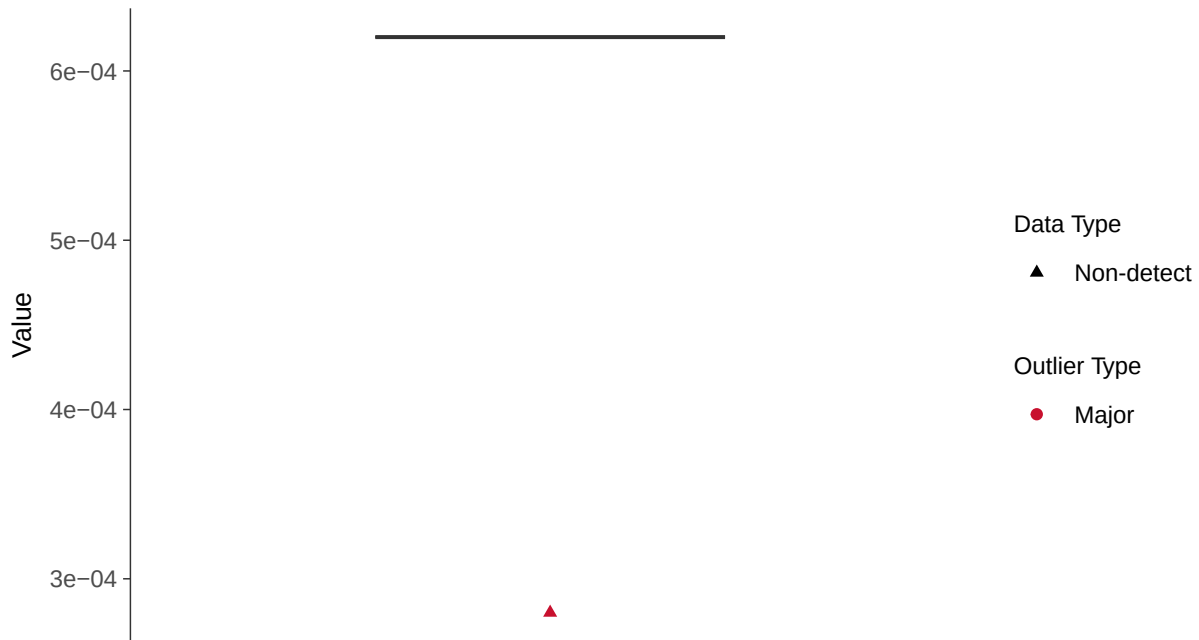
Silver, MW-32 (mg/L)





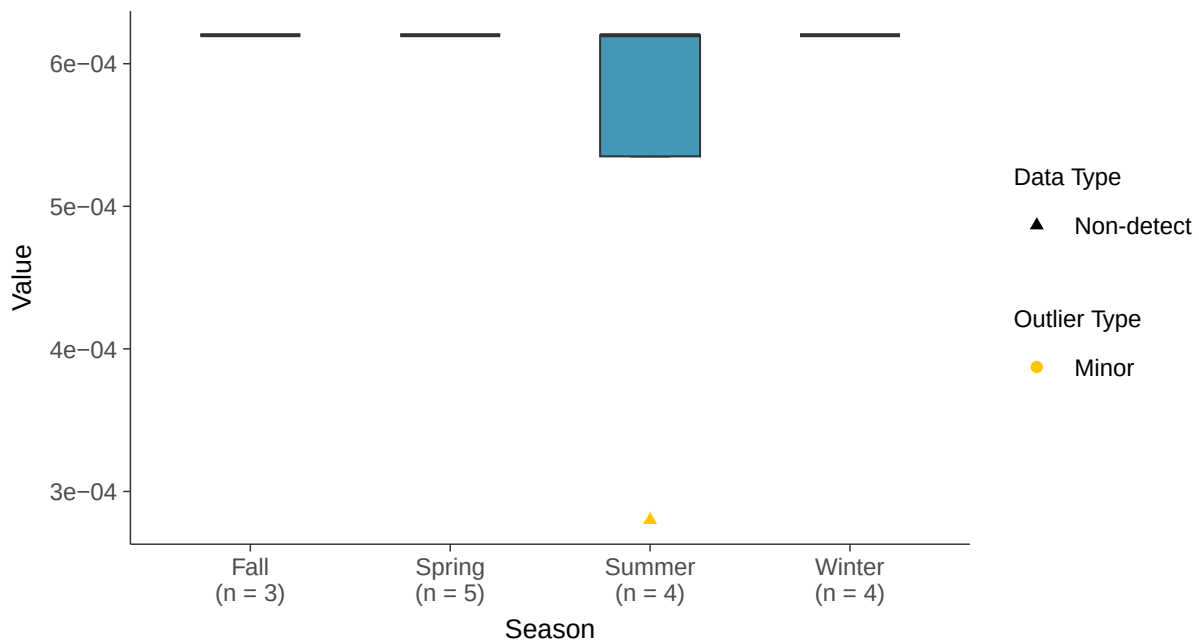
Boxplot

Vanadium, MW-32 (mg/L)



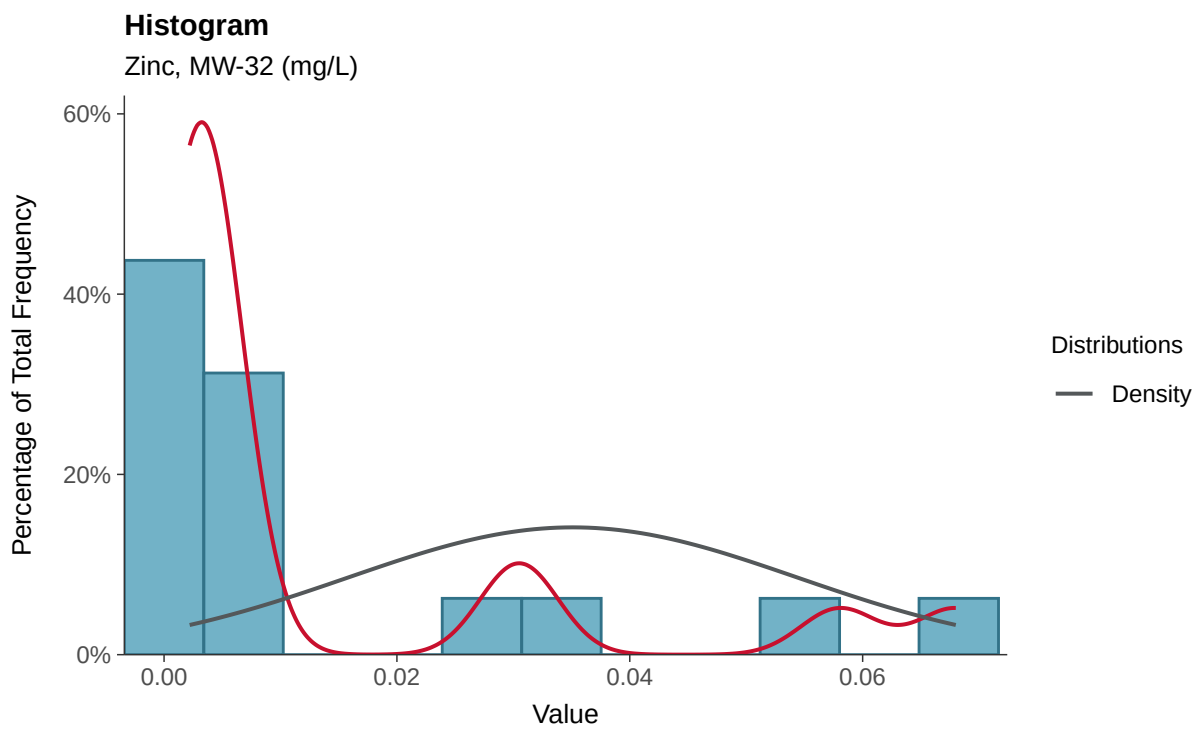
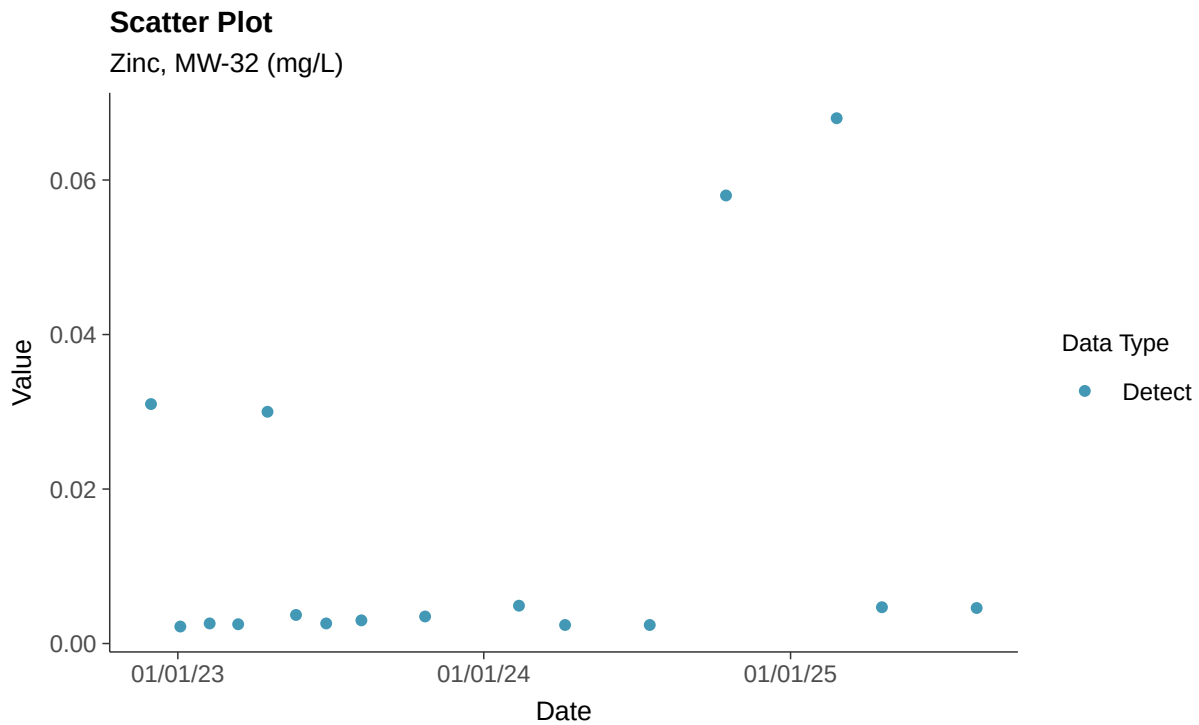
Boxplot by Season

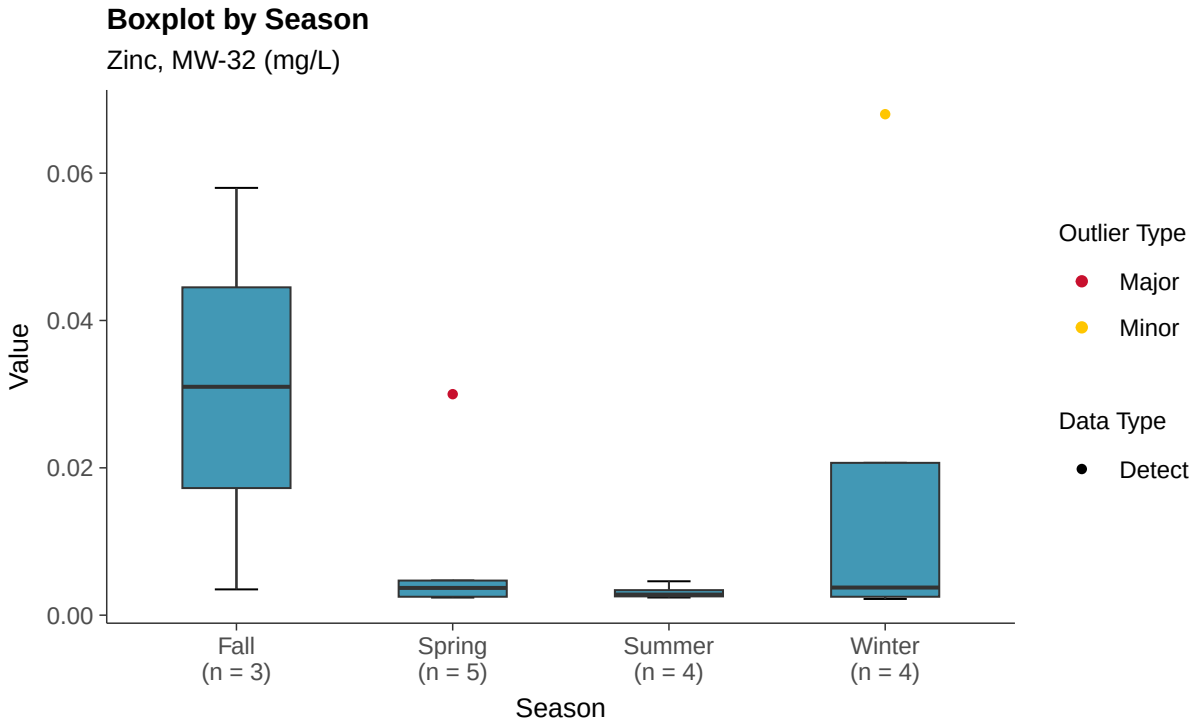
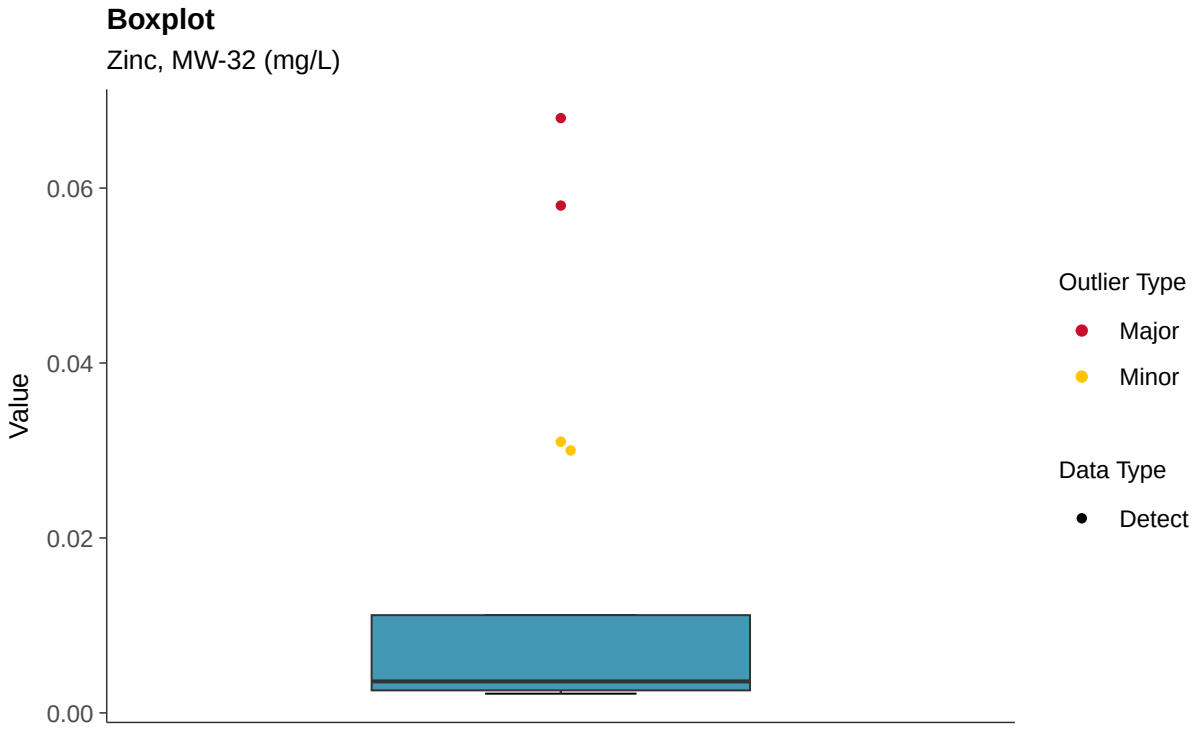
Vanadium, MW-32 (mg/L)

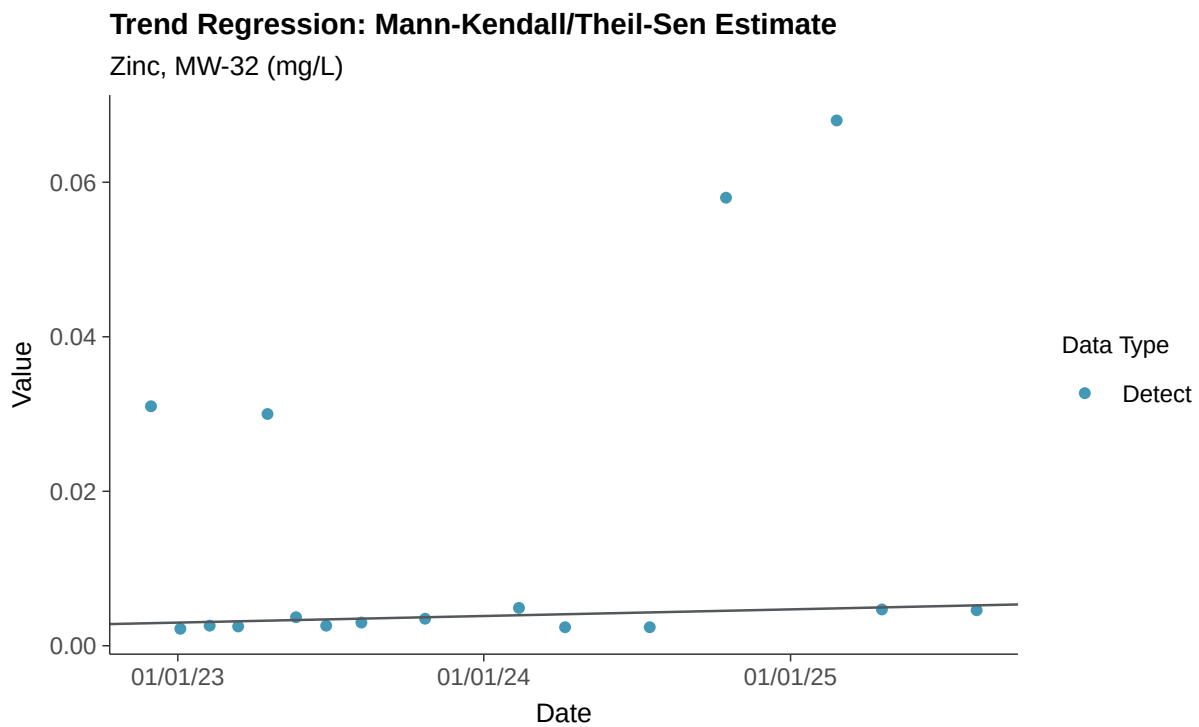
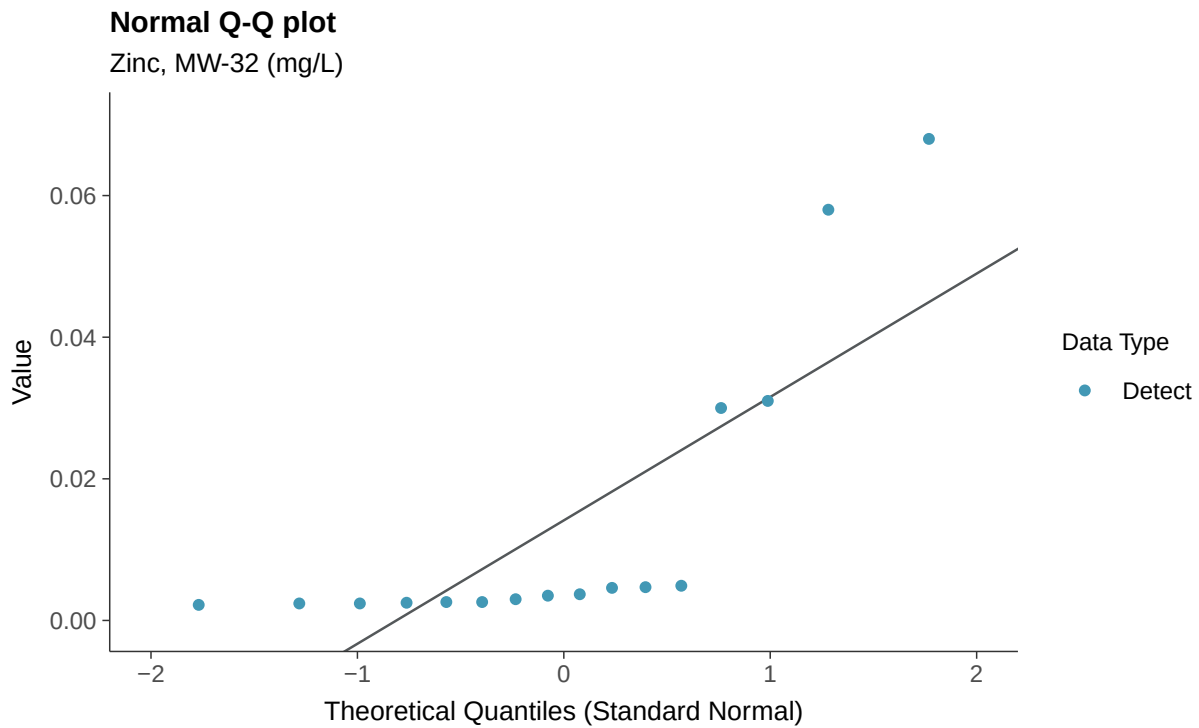


Part 115: Zinc, MW-32

ID: 42_1_5_129

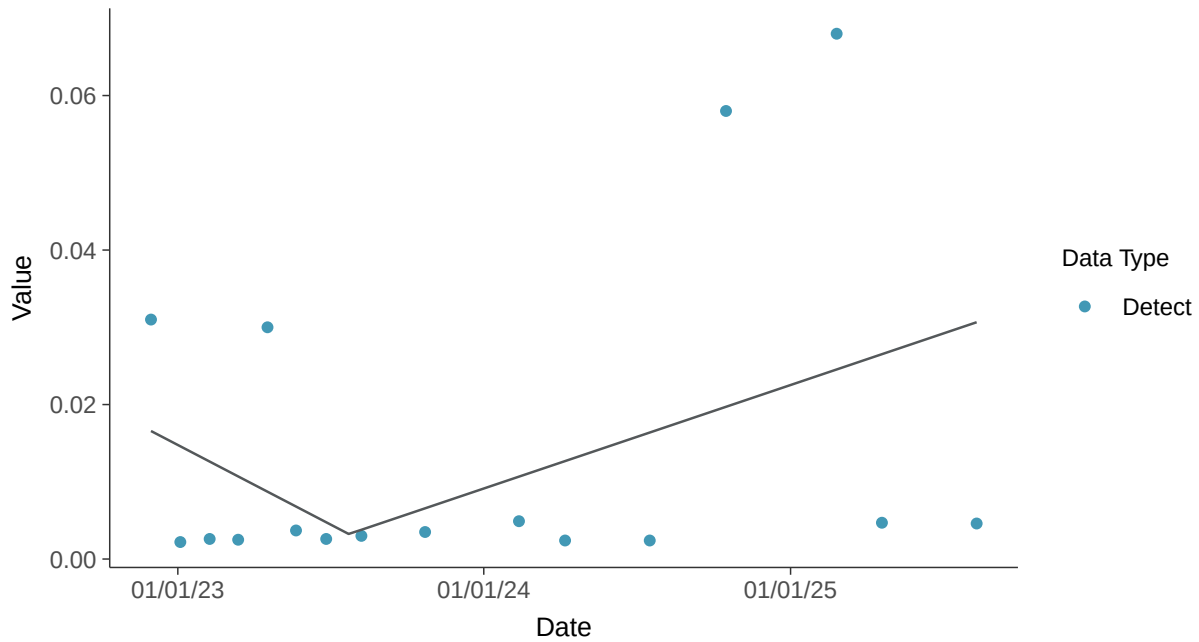






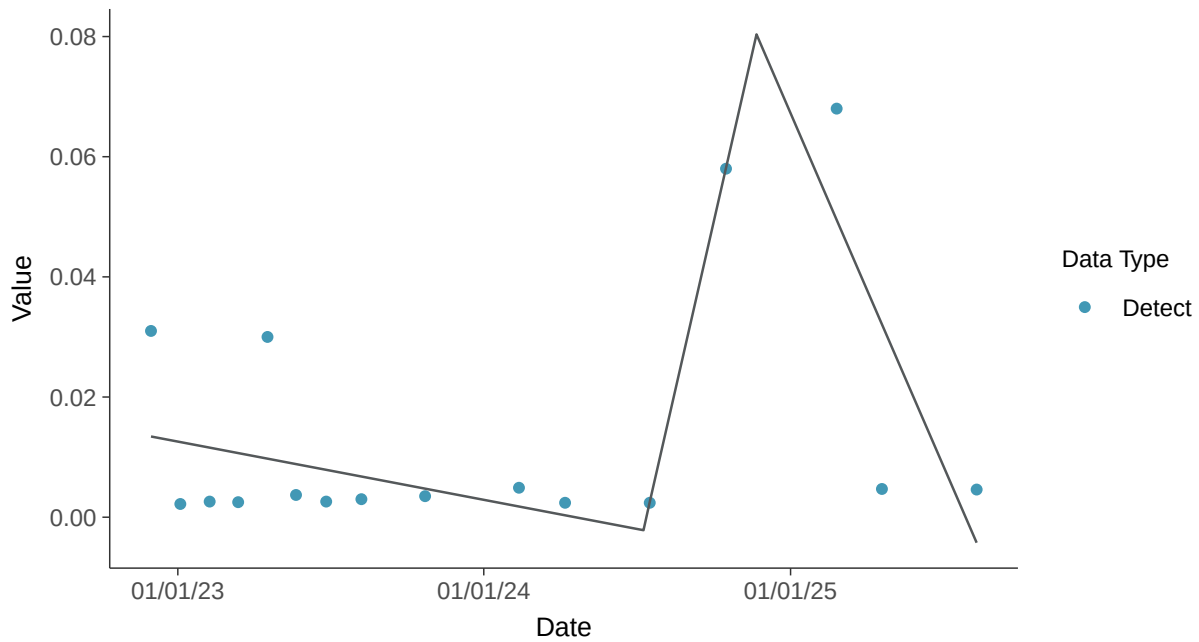
Trend Regression: Piecewise Linear-Linear

Zinc, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-32 (mg/L)



Grand Haven, Downgradient Wells
95% Lower Confidence Limits

Well	Constituent T	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
MW-01R	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-13	93	Normal LCL
MW-01R	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	200	Normal LCL
MW-01R	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	110	Normal LCL
MW-01R	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-13	10	Normal LCL
MW-01R	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-13	7.7	Nonparametric LCL around the Median
MW-01R	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	290	Adjusted Gamma LCL
MW-01R	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-13	2300	Normal LCL
MW-01R	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-29 to 2025-08-13	0.00021	Nonparametric LCL around the Median
MW-01R	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-13	0.0013	Nonparametric LCL around the Median
MW-01R	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	0.30	Normal LCL
MW-01R	Appendix IV	Beryllium	mg/L	16	2	12%	2022-11-29 to 2025-08-13	0.00015	Normal MLE LCL
MW-01R	Appendix IV	Cadmium	mg/L	16	13	81%	2022-11-29 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-01R	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-13	0.0016	Nonparametric LCL around the Median
MW-01R	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-13	0.0010	Nonparametric LCL around the Median
MW-01R	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-13	10	Normal LCL
MW-01R	Appendix IV	Lead	mg/L	16	2	12%	2022-11-29 to 2025-08-13	0.00075	Lognormal MLE Likelihood Profile LCL
MW-01R	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	2.0	Normal LCL
MW-01R	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-29 to 2025-08-13	160	Nonparametric LCL around the Median
MW-01R	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-29 to 2025-08-13	0.00073	Lognormal MLE Likelihood Profile LCL
MW-01R	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	2022-11-29 to 2025-08-13	0.74	Nonparametric LCL around the Median
MW-01R	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-29 to 2025-08-13	0.00059	Adjusted Gamma LCL
MW-01R	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-29 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-01R	Part 115	Copper	mg/L	16	6	38%	2022-11-29 to 2025-08-13	0.00020	Nonparametric LCL around the Median
MW-01R	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-13	0.32	Adjusted Gamma LCL
MW-01R	Part 115	Nickel	mg/L	16	0	0%	2022-11-29 to 2025-08-13	0.0018	Nonparametric LCL around the Median
MW-01R	Part 115	Silver	mg/L	16	16	100%	2022-11-29 to 2025-08-13	0.000050	Nonparametric LCL around the Median
MW-01R	Part 115	Vanadium	mg/L	16	2	12%	2022-11-29 to 2025-08-13	0.0013	Normal MLE LCL
MW-01R	Part 115	Zinc	mg/L	16	3	19%	2022-11-29 to 2025-08-13	0.0012	Nonparametric LCL around the Median
MW-02	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	98	Nonparametric LCL around the Median
MW-02	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	190	Normal LCL
MW-02	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	140	Nonparametric LCL around the Median
MW-02	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	9.4	Nonparametric LCL around the Median
MW-02	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	7.2	Normal LCL
MW-02	Appendix III	Sulfate (as SO4)	mg/L	16	10	62%	2022-11-28 to 2025-08-13	0.41	Nonparametric LCL around the Median
MW-02	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	1800	Normal LCL
MW-02	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-28 to 2025-08-13	0.00018	Gamma MLE Normal Approx. LCL
MW-02	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0064	Normal LCL
MW-02	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.42	Normal LCL
MW-02	Appendix IV	Beryllium	mg/L	16	1	6%	2022-11-28 to 2025-08-13	0.00020	Normal MLE LCL
MW-02	Appendix IV	Cadmium	mg/L	16	11	69%	2022-11-28 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-02	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.033	Normal LCL
MW-02	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0050	Normal LCL
MW-02	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	9.4	Nonparametric LCL around the Median
MW-02	Appendix IV	Lead	mg/L	16	1	6%	2022-11-28 to 2025-08-13	0.0020	Normal MLE LCL
MW-02	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	1.3	Normal LCL
MW-02	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-28 to 2025-08-13	160	Nonparametric LCL around the Median
MW-02	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0052	Nonparametric LCL around the Median
MW-02	Appendix IV	Radium 226 and 228	pCi/L	15	5	33%	2022-11-28 to 2025-08-13	0.82	Normal MLE LCL
MW-02	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0011	Normal LCL
MW-02	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-28 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-02	Part 115	Copper	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0015	Normal LCL
MW-02	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	22	Normal LCL
MW-02	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.019	Normal LCL
MW-02	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.000050	Nonparametric LCL around the Median
MW-02	Part 115	Vanadium	mg/L	16	1	6%	2022-11-28 to 2025-08-13	0.0030	Normal MLE LCL
MW-02	Part 115	Zinc	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0024	Nonparametric LCL around the Median
MW-03	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	4.0	Normal LCL
MW-03	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	350	Normal LCL
MW-03	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	130	Normal LCL
MW-03	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.60	Nonparametric LCL around the Median
MW-03	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	7.3	Normal LCL
MW-03	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	260	Normal LCL
MW-03	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	1800	Nonparametric LCL around the Median
MW-03	Appendix IV	Antimony	mg/L	16	10	62%	2022-11-28 to 2025-08-13	0.00010	Nonparametric LCL around the Median
MW-03	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.00083	Normal LCL
MW-03	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.32	Normal LCL
MW-03	Appendix IV	Beryllium	mg/L	16	10	62%	2022-11-28 to 2025-08-13	0.000052	Nonparametric LCL around the Median
MW-03	Appendix IV	Cadmium	mg/L	16	15	94%	2022-11-28 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-03	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0041	Normal LCL
MW-03	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.00063	Normal LCL
MW-03	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.60	Nonparametric LCL around the Median
MW-03	Appendix IV	Lead	mg/L	16	15	94%	2022-11-28 to 2025-08-13	0.00022	Nonparametric LCL around the Median
MW-03	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.034	Normal LCL
MW-03	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-28 to 2025-08-13	160	Nonparametric LCL around the Median

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Well	Constituent T	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
MW-03	Appendix IV	Molybdenum	mg/L	16	12	75%	2022-11-28 to 2025-08-13	0.00025	Nonparametric LCL around the Median
MW-03	Appendix IV	Radium 226 and 228	pCi/L	15	1	7%	2022-11-28 to 2025-08-13	0.85	Normal MLE LCL
MW-03	Appendix IV	Selenium	mg/L	16	3	19%	2022-11-28 to 2025-08-13	0.00032	Normal MLE LCL
MW-03	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-28 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-03	Part 115	Copper	mg/L	16	7	44%	2022-11-28 to 2025-08-13	0.00020	Nonparametric LCL around the Median
MW-03	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.87	Adjusted Gamma LCL
MW-03	Part 115	Nickel	mg/L	16	1	6%	2022-11-28 to 2025-08-13	0.0012	Nonparametric LCL around the Median
MW-03	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.000050	Nonparametric LCL around the Median
MW-03	Part 115	Vanadium	mg/L	16	9	56%	2022-11-28 to 2025-08-13	0.00062	Nonparametric LCL around the Median
MW-03	Part 115	Zinc	mg/L	16	9	56%	2022-11-28 to 2025-08-13	0.0012	Nonparametric LCL around the Median
MW-04	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-11	3.9	Normal LCL
MW-04	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	340	Normal LCL
MW-04	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	130	Normal LCL
MW-04	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-11	1.3	Lognormal H-LCL
MW-04	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-11	7.3	Normal LCL
MW-04	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	580	Nonparametric LCL around the Median
MW-04	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-11	1800	Normal LCL
MW-04	Appendix IV	Antimony	mg/L	16	11	69%	2022-11-28 to 2025-08-11	0.00010	Nonparametric LCL around the Median
MW-04	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-11	0.00087	Adjusted Gamma LCL
MW-04	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	0.11	Nonparametric LCL around the Median
MW-04	Appendix IV	Beryllium	mg/L	16	14	88%	2022-11-28 to 2025-08-11	0.000052	Nonparametric LCL around the Median
MW-04	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-28 to 2025-08-11	0.000075	Nonparametric LCL around the Median
MW-04	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-11	0.0032	Normal LCL
MW-04	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-11	0.00033	Normal LCL
MW-04	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-11	1.3	Lognormal H-LCL
MW-04	Appendix IV	Lead	mg/L	16	15	94%	2022-11-28 to 2025-08-11	0.00022	Nonparametric LCL around the Median
MW-04	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-11	0.056	Normal LCL
MW-04	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-28 to 2025-08-11	160	Nonparametric LCL around the Median
MW-04	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-28 to 2025-08-11	0.0010	Lognormal MLE Likelihood Profile LCL
MW-04	Appendix IV	Radium 226 and 228	pCi/L	16	5	31%	2022-11-28 to 2025-08-11	0.67	Normal MLE LCL
MW-04	Appendix IV	Selenium	mg/L	16	5	31%	2022-11-28 to 2025-08-11	0.00021	Nonparametric LCL around the Median
MW-04	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-28 to 2025-08-11	0.000075	Nonparametric LCL around the Median
MW-04	Part 115	Copper	mg/L	16	13	81%	2022-11-28 to 2025-08-11	0.00020	Nonparametric LCL around the Median
MW-04	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-11	5.0	Nonparametric LCL around the Median
MW-04	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-11	0.011	Normal LCL
MW-04	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-11	0.000050	Nonparametric LCL around the Median
MW-04	Part 115	Vanadium	mg/L	16	10	62%	2022-11-28 to 2025-08-11	0.00062	Nonparametric LCL around the Median
MW-04	Part 115	Zinc	mg/L	16	10	62%	2022-11-28 to 2025-08-11	0.0012	Nonparametric LCL around the Median
MW-06	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	8.6	Normal LCL
MW-06	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	230	Normal LCL
MW-06	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	51	Normal LCL
MW-06	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	1.1	Normal LCL
MW-06	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	7.2	Nonparametric LCL around the Median
MW-06	Appendix III	Sulfate (as SO4)	mg/L	16	2	12%	2022-11-29 to 2025-08-14	5.9	Gamma MLE Normal Approx. LCL
MW-06	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14	1200	Nonparametric LCL around the Median
MW-06	Appendix IV	Antimony	mg/L	16	14	88%	2022-11-29 to 2025-08-14	0.00010	Nonparametric LCL around the Median
MW-06	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.00060	Normal LCL
MW-06	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	1.4	Normal LCL
MW-06	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-29 to 2025-08-14	0.000052	Nonparametric LCL around the Median
MW-06	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-29 to 2025-08-14	0.000075	Nonparametric LCL around the Median
MW-06	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.0014	Adjusted Gamma LCL
MW-06	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.00044	Normal LCL
MW-06	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	1.1	Normal LCL
MW-06	Appendix IV	Lead	mg/L	16	10	62%	2022-11-29 to 2025-08-14	0.00010	Nonparametric LCL around the Median
MW-06	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.16	Normal LCL
MW-06	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-29 to 2025-08-14	160	Nonparametric LCL around the Median
MW-06	Appendix IV	Molybdenum	mg/L	16	10	62%	2022-11-29 to 2025-08-14	0.00025	Nonparametric LCL around the Median
MW-06	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	2022-11-29 to 2025-08-14	0.69	Gamma MLE Normal Approx. LCL
MW-06	Appendix IV	Selenium	mg/L	16	5	31%	2022-11-29 to 2025-08-14	0.00020	Nonparametric LCL around the Median
MW-06	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-29 to 2025-08-14	0.000075	Nonparametric LCL around the Median
MW-06	Part 115	Copper	mg/L	16	12	75%	2022-11-29 to 2025-08-14	0.00020	Nonparametric LCL around the Median
MW-06	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	14	Normal LCL
MW-06	Part 115	Nickel	mg/L	16	6	38%	2022-11-29 to 2025-08-14	0.00054	Normal MLE LCL
MW-06	Part 115	Silver	mg/L	16	16	100%	2022-11-29 to 2025-08-14	0.000050	Nonparametric LCL around the Median
MW-06	Part 115	Vanadium	mg/L	16	14	88%	2022-11-29 to 2025-08-14	0.00062	Nonparametric LCL around the Median
MW-06	Part 115	Zinc	mg/L	16	2	12%	2022-11-29 to 2025-08-14	0.0013	Nonparametric LCL around the Median
MW-07	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	11	Normal LCL
MW-07	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	140	Normal LCL
MW-07	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	14	Nonparametric LCL around the Median
MW-07	Appendix III	Fluoride	mg/L	16	4	25%	2022-11-30 to 2025-08-13	0.076	Normal MLE LCL
MW-07	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-13	6.9	Nonparametric LCL around the Median
MW-07	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	22	Normal LCL
MW-07	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-13	620	Normal LCL
MW-07	Appendix IV	Antimony	mg/L	16	15	94%	2022-11-30 to 2025-08-13	0.000071	Nonparametric LCL around the Median

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Well	Constituent T	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
MW-07	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.00019	Normal LCL
MW-07	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.33	Normal LCL
MW-07	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-30 to 2025-08-13	0.000052	Nonparametric LCL around the Median
MW-07	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-30 to 2025-08-13	0.000032	Nonparametric LCL around the Median
MW-07	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.00032	Adjusted Gamma LCL
MW-07	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.00087	Normal LCL
MW-07	Appendix IV	Fluoride (App IV)	mg/L	16	4	25%	2022-11-30 to 2025-08-13	0.076	Normal MLE LCL
MW-07	Appendix IV	Lead	mg/L	16	16	100%	2022-11-30 to 2025-08-13	0.00010	Nonparametric LCL around the Median
MW-07	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.0054	Normal LCL
MW-07	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-13	160	Nonparametric LCL around the Median
MW-07	Appendix IV	Molybdenum	mg/L	16	16	100%	2022-11-30 to 2025-08-13	0.00025	Nonparametric LCL around the Median
MW-07	Appendix IV	Radium 226 and 228	pCi/L	16	2	12%	2022-11-30 to 2025-08-13	0.80	Gamma MLE Normal Approx. LCL
MW-07	Appendix IV	Selenium	mg/L	16	9	56%	2022-11-30 to 2025-08-13	0.00010	Nonparametric LCL around the Median
MW-07	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-07	Part 115	Copper	mg/L	16	12	75%	2022-11-30 to 2025-08-13	0.00020	Nonparametric LCL around the Median
MW-07	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	15	Normal LCL
MW-07	Part 115	Nickel	mg/L	16	14	88%	2022-11-30 to 2025-08-13	0.00065	Nonparametric LCL around the Median
MW-07	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-13	0.000050	Nonparametric LCL around the Median
MW-07	Part 115	Vanadium	mg/L	16	12	75%	2022-11-30 to 2025-08-13	0.00062	Nonparametric LCL around the Median
MW-07	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-13	0.0012	Nonparametric LCL around the Median
MW-08	Appendix III	Boron	mg/L	16	0	0%	2022-12-01 to 2025-08-14	5.2	Normal LCL
MW-08	Appendix III	Calcium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	130	Normal LCL
MW-08	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-12-01 to 2025-08-14	25	Nonparametric LCL around the Median
MW-08	Appendix III	Fluoride	mg/L	16	0	0%	2022-12-01 to 2025-08-14	0.80	Normal LCL
MW-08	Appendix III	pH (field)	su	16	0	0%	2022-12-01 to 2025-08-14	7.2	Nonparametric LCL around the Median
MW-08	Appendix III	Sulfate (as SO4)	mg/L	16	4	25%	2022-12-01 to 2025-08-14	5.6	Gamma MLE Normal Approx. LCL
MW-08	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-12-01 to 2025-08-14	530	Normal LCL
MW-08	Appendix IV	Antimony	mg/L	16	8	50%	2022-12-01 to 2025-08-14	0.00010	Nonparametric LCL around the Median
MW-08	Appendix IV	Arsenic	mg/L	16	0	0%	2022-12-01 to 2025-08-14	0.030	Normal LCL
MW-08	Appendix IV	Barium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	1.1	Normal LCL
MW-08	Appendix IV	Beryllium	mg/L	16	15	94%	2022-12-01 to 2025-08-14	0.000052	Nonparametric LCL around the Median
MW-08	Appendix IV	Cadmium	mg/L	16	15	94%	2022-12-01 to 2025-08-14	0.000032	Nonparametric LCL around the Median
MW-08	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-12-01 to 2025-08-14	0.00070	Normal LCL
MW-08	Appendix IV	Cobalt	mg/L	16	0	0%	2022-12-01 to 2025-08-14	0.00042	Normal LCL
MW-08	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-12-01 to 2025-08-14	0.80	Normal LCL
MW-08	Appendix IV	Lead	mg/L	16	10	62%	2022-12-01 to 2025-08-14	0.00010	Nonparametric LCL around the Median
MW-08	Appendix IV	Lithium	mg/L	16	0	0%	2022-12-01 to 2025-08-14	0.089	Normal LCL
MW-08	Appendix IV	Mercury	ng/L	16	15	94%	2022-12-01 to 2025-08-14	160	Nonparametric LCL around the Median
MW-08	Appendix IV	Molybdenum	mg/L	16	1	6%	2022-12-01 to 2025-08-14	0.00099	Normal MLE LCL
MW-08	Appendix IV	Radium 226 and 228	pCi/L	16	3	19%	2022-12-01 to 2025-08-14	0.76	Normal MLE LCL
MW-08	Appendix IV	Selenium	mg/L	16	6	38%	2022-12-01 to 2025-08-14	0.00013	Lognormal MLE Likelihood Profile LCL
MW-08	Appendix IV	Thallium	mg/L	16	15	94%	2022-12-01 to 2025-08-14	0.000075	Nonparametric LCL around the Median
MW-08	Part 115	Copper	mg/L	16	5	31%	2022-12-01 to 2025-08-14	0.00018	Normal MLE LCL
MW-08	Part 115	Iron	mg/L	16	0	0%	2022-12-01 to 2025-08-14	17	Normal LCL
MW-08	Part 115	Nickel	mg/L	16	0	0%	2022-12-01 to 2025-08-14	0.0011	Nonparametric LCL around the Median
MW-08	Part 115	Silver	mg/L	16	16	100%	2022-12-01 to 2025-08-14	0.000050	Nonparametric LCL around the Median
MW-08	Part 115	Vanadium	mg/L	16	14	88%	2022-12-01 to 2025-08-14	0.00062	Nonparametric LCL around the Median
MW-08	Part 115	Zinc	mg/L	16	3	19%	2022-12-01 to 2025-08-14	0.0014	Nonparametric LCL around the Median
MW-09	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	5.5	Normal LCL
MW-09	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	350	Normal LCL
MW-09	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	19	Lognormal H-LCL
MW-09	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	2.4	Normal LCL
MW-09	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	7.2	Normal LCL
MW-09	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	390	Normal LCL
MW-09	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	1300	Normal LCL
MW-09	Appendix IV	Antimony	mg/L	16	11	69%	2022-11-28 to 2025-08-13	0.00010	Nonparametric LCL around the Median
MW-09	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0019	Normal LCL
MW-09	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.24	Lognormal H-LCL
MW-09	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-28 to 2025-08-13	0.000052	Nonparametric LCL around the Median
MW-09	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-09	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0022	Normal LCL
MW-09	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.00040	Normal LCL
MW-09	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	2.4	Normal LCL
MW-09	Appendix IV	Lead	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.00010	Nonparametric LCL around the Median
MW-09	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.29	Normal LCL
MW-09	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-28 to 2025-08-13	160	Nonparametric LCL around the Median
MW-09	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.019	Normal LCL
MW-09	Appendix IV	Radium 226 and 228	pCi/L	16	15	94%	2022-11-28 to 2025-08-13	0.69	Nonparametric LCL around the Median
MW-09	Appendix IV	Selenium	mg/L	16	2	12%	2022-11-28 to 2025-08-13	0.00024	Gamma MLE Normal Approx. LCL
MW-09	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-09	Part 115	Copper	mg/L	16	11	69%	2022-11-28 to 2025-08-13	0.00020	Nonparametric LCL around the Median
MW-09	Part 115	Iron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	19	Normal LCL
MW-09	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0012	Nonparametric LCL around the Median
MW-09	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.000050	Nonparametric LCL around the Median

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Well	Constituent T	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
MW-09	Part 115	Vanadium	mg/L	16	15	94%	2022-11-28 to 2025-08-13	0.00062	Nonparametric LCL around the Median
MW-09	Part 115	Zinc	mg/L	16	8	50%	2022-11-28 to 2025-08-13	0.0012	Nonparametric LCL around the Median
MW-10	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	14	Normal LCL
MW-10	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	250	Normal LCL
MW-10	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	220	Normal LCL
MW-10	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	4.6	Normal LCL
MW-10	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	7.6	Normal LCL
MW-10	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	430	Normal LCL
MW-10	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14	1800	Nonparametric LCL around the Median
MW-10	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-29 to 2025-08-14	0.00010	Nonparametric LCL around the Median
MW-10	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.00055	Normal LCL
MW-10	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.25	Normal LCL
MW-10	Appendix IV	Beryllium	mg/L	16	7	44%	2022-11-29 to 2025-08-14	0.000020	Normal MLE LCL
MW-10	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-29 to 2025-08-14	0.000075	Nonparametric LCL around the Median
MW-10	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.0030	Normal LCL
MW-10	Appendix IV	Cobalt	mg/L	16	1	6%	2022-11-29 to 2025-08-14	0.00034	Gamma MLE Normal Approx. LCL
MW-10	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	4.6	Normal LCL
MW-10	Appendix IV	Lead	mg/L	16	14	88%	2022-11-29 to 2025-08-14	0.00010	Nonparametric LCL around the Median
MW-10	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.83	Normal LCL
MW-10	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-29 to 2025-08-14	160	Nonparametric LCL around the Median
MW-10	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.0023	Normal LCL
MW-10	Appendix IV	Radium 226 and 228	pCi/L	16	12	75%	2022-11-29 to 2025-08-14	0.73	Nonparametric LCL around the Median
MW-10	Appendix IV	Selenium	mg/L	16	1	6%	2022-11-29 to 2025-08-14	0.00030	Gamma MLE Normal Approx. LCL
MW-10	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-29 to 2025-08-14	0.000075	Nonparametric LCL around the Median
MW-10	Part 115	Copper	mg/L	16	13	81%	2022-11-29 to 2025-08-14	0.00020	Nonparametric LCL around the Median
MW-10	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	4.3	Normal LCL
MW-10	Part 115	Nickel	mg/L	16	7	44%	2022-11-29 to 2025-08-14	0.00065	Nonparametric LCL around the Median
MW-10	Part 115	Silver	mg/L	16	16	100%	2022-11-29 to 2025-08-14	0.000050	Nonparametric LCL around the Median
MW-10	Part 115	Vanadium	mg/L	16	12	75%	2022-11-29 to 2025-08-14	0.00062	Nonparametric LCL around the Median
MW-10	Part 115	Zinc	mg/L	16	7	44%	2022-11-29 to 2025-08-14	0.0014	Gamma MLE Normal Approx. LCL
MW-11	Appendix III	Boron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	4.4	Normal LCL
MW-11	Appendix III	Calcium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	230	Normal LCL
MW-11	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	61	Normal LCL
MW-11	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.47	Normal LCL
MW-11	Appendix III	pH (field)	su	16	0	0%	2022-11-29 to 2025-08-14	7.3	Normal LCL
MW-11	Appendix III	Sulfate (as SO4)	mg/L	16	6	38%	2022-11-29 to 2025-08-14	4.5	Gamma MLE Normal Approx. LCL
MW-11	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-29 to 2025-08-14	950	Adjusted Gamma LCL
MW-11	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-29 to 2025-08-14	0.00010	Nonparametric LCL around the Median
MW-11	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.0013	Normal LCL
MW-11	Appendix IV	Barium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.56	Normal LCL
MW-11	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-29 to 2025-08-14	0.000052	Nonparametric LCL around the Median
MW-11	Appendix IV	Cadmium	mg/L	16	14	88%	2022-11-29 to 2025-08-14	0.000075	Nonparametric LCL around the Median
MW-11	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.00078	Nonparametric LCL around the Median
MW-11	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.00044	Adjusted Gamma LCL
MW-11	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.47	Normal LCL
MW-11	Appendix IV	Lead	mg/L	16	3	19%	2022-11-29 to 2025-08-14	0.0013	Gamma MLE Normal Approx. LCL
MW-11	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.042	Normal LCL
MW-11	Appendix IV	Mercury	ng/L	16	13	81%	2022-11-29 to 2025-08-14	160	Nonparametric LCL around the Median
MW-11	Appendix IV	Molybdenum	mg/L	16	2	12%	2022-11-29 to 2025-08-14	0.00084	Normal MLE LCL
MW-11	Appendix IV	Radium 226 and 228	pCi/L	15	4	27%	2022-11-29 to 2025-08-14	0.65	Normal MLE LCL
MW-11	Appendix IV	Selenium	mg/L	16	3	19%	2022-11-29 to 2025-08-14	0.00017	Nonparametric LCL around the Median
MW-11	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-29 to 2025-08-14	0.000075	Nonparametric LCL around the Median
MW-11	Part 115	Copper	mg/L	16	4	25%	2022-11-29 to 2025-08-14	0.00020	Nonparametric LCL around the Median
MW-11	Part 115	Iron	mg/L	16	0	0%	2022-11-29 to 2025-08-14	6.2	Normal LCL
MW-11	Part 115	Nickel	mg/L	16	0	0%	2022-11-29 to 2025-08-14	0.0012	Nonparametric LCL around the Median
MW-11	Part 115	Silver	mg/L	16	14	88%	2022-11-29 to 2025-08-14	0.000050	Nonparametric LCL around the Median
MW-11	Part 115	Vanadium	mg/L	16	13	81%	2022-11-29 to 2025-08-14	0.00062	Nonparametric LCL around the Median
MW-11	Part 115	Zinc	mg/L	16	4	25%	2022-11-29 to 2025-08-14	0.0067	Gamma MLE Normal Approx. LCL
MW-12	Appendix III	Boron	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.27	Normal LCL
MW-12	Appendix III	Calcium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	58	Normal LCL
MW-12	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	17	Lognormal H-LCL
MW-12	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.28	Adjusted Gamma LCL
MW-12	Appendix III	pH (field)	su	16	0	0%	2022-11-28 to 2025-08-13	7.5	Normal LCL
MW-12	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	87	Normal LCL
MW-12	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-28 to 2025-08-13	240	Normal LCL
MW-12	Appendix IV	Antimony	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.00054	Normal LCL
MW-12	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0020	Normal LCL
MW-12	Appendix IV	Barium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.033	Normal LCL
MW-12	Appendix IV	Beryllium	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.000052	Nonparametric LCL around the Median
MW-12	Appendix IV	Cadmium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0014	Adjusted Gamma LCL
MW-12	Appendix IV	Chromium, Total	mg/L	16	6	38%	2022-11-28 to 2025-08-13	0.00012	Normal MLE LCL
MW-12	Appendix IV	Cobalt	mg/L	16	5	31%	2022-11-28 to 2025-08-13	0.000018	Normal MLE LCL
MW-12	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.28	Adjusted Gamma LCL
MW-12	Appendix IV	Lead	mg/L	16	6	38%	2022-11-28 to 2025-08-13	0.00012	Normal MLE LCL

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Well	Constituent T	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
MW-12	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0031	Normal LCL
MW-12	Appendix IV	Mercury	ng/L	16	12	75%	2022-11-28 to 2025-08-13	160	Nonparametric LCL around the Median
MW-12	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0066	Adjusted Gamma LCL
MW-12	Appendix IV	Radium 226 and 228	pCi/L	16	10	62%	2022-11-28 to 2025-08-13	0.54	Nonparametric LCL around the Median
MW-12	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.00079	Adjusted Gamma LCL
MW-12	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-12	Part 115	Copper	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0011	Normal LCL
MW-12	Part 115	Iron	mg/L	16	6	38%	2022-11-28 to 2025-08-13	0.037	Lognormal MLE Likelihood Profile LCL
MW-12	Part 115	Nickel	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0022	Normal LCL
MW-12	Part 115	Silver	mg/L	16	16	100%	2022-11-28 to 2025-08-13	0.000050	Nonparametric LCL around the Median
MW-12	Part 115	Vanadium	mg/L	16	6	38%	2022-11-28 to 2025-08-13	0.00047	Normal MLE LCL
MW-12	Part 115	Zinc	mg/L	16	0	0%	2022-11-28 to 2025-08-13	0.0072	Adjusted Gamma LCL
MW-18	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	2.6	Normal LCL
MW-18	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	310	Normal LCL
MW-18	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	21	Normal LCL
MW-18	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-12	3.6	Normal LCL
MW-18	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-12	7.2	Normal LCL
MW-18	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	720	Normal LCL
MW-18	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-12	1300	Normal LCL
MW-18	Appendix IV	Antimony	mg/L	16	3	19%	2022-11-30 to 2025-08-12	0.00013	Lognormal MLE Likelihood Profile LCL
MW-18	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.024	Normal LCL
MW-18	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.017	Normal LCL
MW-18	Appendix IV	Beryllium	mg/L	16	14	88%	2022-11-30 to 2025-08-12	0.000052	Nonparametric LCL around the Median
MW-18	Appendix IV	Cadmium	mg/L	16	7	44%	2022-11-30 to 2025-08-12	0.000024	Normal MLE LCL
MW-18	Appendix IV	Chromium, Total	mg/L	16	14	88%	2022-11-30 to 2025-08-12	0.00018	Nonparametric LCL around the Median
MW-18	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.0022	Lognormal H-LCL
MW-18	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	3.6	Normal LCL
MW-18	Appendix IV	Lead	mg/L	16	10	62%	2022-11-30 to 2025-08-12	0.00014	Nonparametric LCL around the Median
MW-18	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.031	Normal LCL
MW-18	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-12	160	Nonparametric LCL around the Median
MW-18	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.013	Normal LCL
MW-18	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	2022-11-30 to 2025-08-12	0.56	Nonparametric LCL around the Median
MW-18	Appendix IV	Selenium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.00035	Normal LCL
MW-18	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-12	0.000075	Nonparametric LCL around the Median
MW-18	Part 115	Copper	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.00043	Nonparametric LCL around the Median
MW-18	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	5.9	Normal LCL
MW-18	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.0053	Adjusted Gamma LCL
MW-18	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-12	0.000050	Nonparametric LCL around the Median
MW-18	Part 115	Vanadium	mg/L	16	16	100%	2022-11-30 to 2025-08-12	0.00062	Nonparametric LCL around the Median
MW-18	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.038	Normal LCL
MW-19	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	1.9	Normal LCL
MW-19	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	440	Normal LCL
MW-19	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	36	Normal LCL
MW-19	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-12	1.7	Normal LCL
MW-19	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-12	6.8	Normal LCL
MW-19	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	910	Normal LCL
MW-19	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-12	1800	Normal LCL
MW-19	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-30 to 2025-08-12	0.00010	Nonparametric LCL around the Median
MW-19	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.0042	Normal LCL
MW-19	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.037	Normal LCL
MW-19	Appendix IV	Beryllium	mg/L	16	3	19%	2022-11-30 to 2025-08-12	0.000064	Normal MLE LCL
MW-19	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-30 to 2025-08-12	0.000075	Nonparametric LCL around the Median
MW-19	Appendix IV	Chromium, Total	mg/L	16	5	31%	2022-11-30 to 2025-08-12	0.00022	Gamma MLE Normal Approx. LCL
MW-19	Appendix IV	Cobalt	mg/L	16	1	6%	2022-11-30 to 2025-08-12	0.00037	Normal MLE LCL
MW-19	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-12	1.7	Normal LCL
MW-19	Appendix IV	Lead	mg/L	16	16	100%	2022-11-30 to 2025-08-12	0.00010	Nonparametric LCL around the Median
MW-19	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.085	Normal LCL
MW-19	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-12	160	Nonparametric LCL around the Median
MW-19	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-12	0.0092	Normal LCL
MW-19	Appendix IV	Radium 226 and 228	pCi/L	16	7	44%	2022-11-30 to 2025-08-12	0.46	Normal MLE LCL
MW-19	Appendix IV	Selenium	mg/L	16	11	69%	2022-11-30 to 2025-08-12	0.00010	Nonparametric LCL around the Median
MW-19	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-12	0.000075	Nonparametric LCL around the Median
MW-19	Part 115	Copper	mg/L	16	13	81%	2022-11-30 to 2025-08-12	0.00020	Nonparametric LCL around the Median
MW-19	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-12	15	Normal LCL
MW-19	Part 115	Nickel	mg/L	16	1	6%	2022-11-30 to 2025-08-12	0.0022	Lognormal MLE Likelihood Profile LCL
MW-19	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-12	0.000050	Nonparametric LCL around the Median
MW-19	Part 115	Vanadium	mg/L	16	14	88%	2022-11-30 to 2025-08-12	0.00062	Nonparametric LCL around the Median
MW-19	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-12	0.0012	Nonparametric LCL around the Median
MW-20	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.89	Normal LCL
MW-20	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	110	Normal LCL
MW-20	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	52	Normal LCL
MW-20	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.22	Nonparametric LCL around the Median
MW-20	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-13	7.3	Normal LCL
MW-20	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	43	Normal LCL

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Well	Constituent T	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
MW-20	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-13	610	Normal LCL
MW-20	Appendix IV	Antimony	mg/L	16	6	38%	2022-11-30 to 2025-08-13	0.000072	Normal MLE LCL
MW-20	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.0013	Normal LCL
MW-20	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.46	Lognormal H-LCL
MW-20	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-30 to 2025-08-13	0.000052	Nonparametric LCL around the Median
MW-20	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-30 to 2025-08-13	0.000032	Nonparametric LCL around the Median
MW-20	Appendix IV	Chromium, Total	mg/L	16	8	50%	2022-11-30 to 2025-08-13	0.00020	Nonparametric LCL around the Median
MW-20	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.0010	Normal LCL
MW-20	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.22	Nonparametric LCL around the Median
MW-20	Appendix IV	Lead	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.0017	Normal LCL
MW-20	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.051	Normal LCL
MW-20	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-30 to 2025-08-13	160	Nonparametric LCL around the Median
MW-20	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.0041	Normal LCL
MW-20	Appendix IV	Radium 226 and 228	pCi/L	15	7	47%	2022-11-30 to 2025-08-13	0.27	Normal MLE LCL
MW-20	Appendix IV	Selenium	mg/L	16	10	62%	2022-11-30 to 2025-08-13	0.00010	Nonparametric LCL around the Median
MW-20	Appendix IV	Thallium	mg/L	16	15	94%	2022-11-30 to 2025-08-13	0.000075	Nonparametric LCL around the Median
MW-20	Part 115	Copper	mg/L	16	2	12%	2022-11-30 to 2025-08-13	0.00024	Normal MLE LCL
MW-20	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-13	17	Normal LCL
MW-20	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.0073	Normal LCL
MW-20	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-13	0.000050	Nonparametric LCL around the Median
MW-20	Part 115	Vanadium	mg/L	16	16	100%	2022-11-30 to 2025-08-13	0.00062	Nonparametric LCL around the Median
MW-20	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-13	0.026	Lognormal H-LCL
MW-30	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	1.8	Lognormal H-LCL
MW-30	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	440	Nonparametric LCL around the Median
MW-30	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	110	Nonparametric LCL around the Median
MW-30	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-11	1.1	Nonparametric LCL around the Median
MW-30	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-11	7.0	Normal LCL
MW-30	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	800	Normal LCL
MW-30	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-11	2200	Nonparametric LCL around the Median
MW-30	Appendix IV	Antimony	mg/L	16	14	88%	2022-11-30 to 2025-08-11	0.00010	Nonparametric LCL around the Median
MW-30	Appendix IV	Arsenic	mg/L	16	2	12%	2022-11-30 to 2025-08-11	0.00046	Gamma MLE Normal Approx. LCL
MW-30	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.059	Normal LCL
MW-30	Appendix IV	Beryllium	mg/L	16	13	81%	2022-11-30 to 2025-08-11	0.000052	Nonparametric LCL around the Median
MW-30	Appendix IV	Cadmium	mg/L	16	16	100%	2022-11-30 to 2025-08-11	0.000075	Nonparametric LCL around the Median
MW-30	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.0074	Normal LCL
MW-30	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.00077	Nonparametric LCL around the Median
MW-30	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	1.1	Nonparametric LCL around the Median
MW-30	Appendix IV	Lead	mg/L	16	15	94%	2022-11-30 to 2025-08-11	0.00050	Nonparametric LCL around the Median
MW-30	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.12	Adjusted Gamma LCL
MW-30	Appendix IV	Mercury	ng/L	16	15	94%	2022-11-30 to 2025-08-11	160	Nonparametric LCL around the Median
MW-30	Appendix IV	Molybdenum	mg/L	16	3	19%	2022-11-30 to 2025-08-11	0.00073	Nonparametric LCL around the Median
MW-30	Appendix IV	Radium 226 and 228	pCi/L	16	8	50%	2022-11-30 to 2025-08-11	0.56	Nonparametric LCL around the Median
MW-30	Appendix IV	Selenium	mg/L	16	7	44%	2022-11-30 to 2025-08-11	0.00012	Gamma MLE Normal Approx. LCL
MW-30	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-11	0.000075	Nonparametric LCL around the Median
MW-30	Part 115	Copper	mg/L	16	11	69%	2022-11-30 to 2025-08-11	0.00020	Nonparametric LCL around the Median
MW-30	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	3.0	Adjusted Gamma LCL
MW-30	Part 115	Nickel	mg/L	16	3	19%	2022-11-30 to 2025-08-11	0.0011	Nonparametric LCL around the Median
MW-30	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-11	0.000050	Nonparametric LCL around the Median
MW-30	Part 115	Vanadium	mg/L	16	15	94%	2022-11-30 to 2025-08-11	0.00062	Nonparametric LCL around the Median
MW-30	Part 115	Zinc	mg/L	16	10	62%	2022-11-30 to 2025-08-11	0.0012	Nonparametric LCL around the Median
MW-31	Appendix III	Boron	mg/L	16	0	0%	2022-12-01 to 2025-08-12	4.4	Normal LCL
MW-31	Appendix III	Calcium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	160	Normal LCL
MW-31	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	99	Nonparametric LCL around the Median
MW-31	Appendix III	Fluoride	mg/L	16	0	0%	2022-12-01 to 2025-08-12	4.5	Normal LCL
MW-31	Appendix III	pH (field)	su	16	0	0%	2022-12-01 to 2025-08-12	7.8	Normal LCL
MW-31	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	120	Normal LCL
MW-31	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-12-01 to 2025-08-12	790	Normal LCL
MW-31	Appendix IV	Antimony	mg/L	16	7	44%	2022-12-01 to 2025-08-12	0.000089	Gamma MLE Normal Approx. LCL
MW-31	Appendix IV	Arsenic	mg/L	16	0	0%	2022-12-01 to 2025-08-12	0.0011	Normal LCL
MW-31	Appendix IV	Barium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	0.15	Normal LCL
MW-31	Appendix IV	Beryllium	mg/L	16	14	88%	2022-12-01 to 2025-08-12	0.000052	Nonparametric LCL around the Median
MW-31	Appendix IV	Cadmium	mg/L	16	15	94%	2022-12-01 to 2025-08-12	0.000032	Nonparametric LCL around the Median
MW-31	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-12-01 to 2025-08-12	0.0021	Normal LCL
MW-31	Appendix IV	Cobalt	mg/L	16	3	19%	2022-12-01 to 2025-08-12	0.00014	Gamma MLE Normal Approx. LCL
MW-31	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-12-01 to 2025-08-12	4.5	Normal LCL
MW-31	Appendix IV	Lead	mg/L	16	13	81%	2022-12-01 to 2025-08-12	0.00010	Nonparametric LCL around the Median
MW-31	Appendix IV	Lithium	mg/L	16	0	0%	2022-12-01 to 2025-08-12	0.045	Normal LCL
MW-31	Appendix IV	Mercury	ng/L	16	14	88%	2022-12-01 to 2025-08-12	160	Nonparametric LCL around the Median
MW-31	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-12-01 to 2025-08-12	0.0011	Nonparametric LCL around the Median
MW-31	Appendix IV	Radium 226 and 228	pCi/L	16	6	38%	2022-12-01 to 2025-08-12	0.54	Gamma MLE Normal Approx. LCL
MW-31	Appendix IV	Selenium	mg/L	16	6	38%	2022-12-01 to 2025-08-12	0.00012	Nonparametric LCL around the Median
MW-31	Appendix IV	Thallium	mg/L	16	15	94%	2022-12-01 to 2025-08-12	0.000075	Nonparametric LCL around the Median
MW-31	Part 115	Copper	mg/L	16	10	62%	2022-12-01 to 2025-08-12	0.00020	Nonparametric LCL around the Median
MW-31	Part 115	Iron	mg/L	16	0	0%	2022-12-01 to 2025-08-12	0.19	Nonparametric LCL around the Median

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Well	Constituent T	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
MW-31	Part 115	Nickel	mg/L	16	10	62%	2022-12-01 to 2025-08-12	0.00065	Nonparametric LCL around the Median
MW-31	Part 115	Silver	mg/L	16	16	100%	2022-12-01 to 2025-08-12	0.000050	Nonparametric LCL around the Median
MW-31	Part 115	Vanadium	mg/L	16	12	75%	2022-12-01 to 2025-08-12	0.00062	Nonparametric LCL around the Median
MW-31	Part 115	Zinc	mg/L	16	9	56%	2022-12-01 to 2025-08-12	0.0012	Nonparametric LCL around the Median
MW-32	Appendix III	Boron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	3.0	Nonparametric LCL around the Median
MW-32	Appendix III	Calcium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	160	Normal LCL
MW-32	Appendix III	Chloride (as Cl)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	44	Normal LCL
MW-32	Appendix III	Fluoride	mg/L	16	0	0%	2022-11-30 to 2025-08-11	1.4	Normal LCL
MW-32	Appendix III	pH (field)	su	16	0	0%	2022-11-30 to 2025-08-11	7.6	Normal LCL
MW-32	Appendix III	Sulfate (as SO4)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	50	Adjusted Gamma LCL
MW-32	Appendix III	Total Dissolved Solids	mg/L	16	0	0%	2022-11-30 to 2025-08-11	640	Normal LCL
MW-32	Appendix IV	Antimony	mg/L	16	12	75%	2022-11-30 to 2025-08-11	0.00010	Nonparametric LCL around the Median
MW-32	Appendix IV	Arsenic	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.00046	Nonparametric LCL around the Median
MW-32	Appendix IV	Barium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.48	Normal LCL
MW-32	Appendix IV	Beryllium	mg/L	16	15	94%	2022-11-30 to 2025-08-11	0.000052	Nonparametric LCL around the Median
MW-32	Appendix IV	Cadmium	mg/L	16	15	94%	2022-11-30 to 2025-08-11	0.000032	Nonparametric LCL around the Median
MW-32	Appendix IV	Chromium, Total	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.00035	Nonparametric LCL around the Median
MW-32	Appendix IV	Cobalt	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.00039	Adjusted Gamma LCL
MW-32	Appendix IV	Fluoride (App IV)	mg/L	16	0	0%	2022-11-30 to 2025-08-11	1.4	Normal LCL
MW-32	Appendix IV	Lead	mg/L	16	11	69%	2022-11-30 to 2025-08-11	0.00010	Nonparametric LCL around the Median
MW-32	Appendix IV	Lithium	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.12	Normal LCL
MW-32	Appendix IV	Mercury	ng/L	16	14	88%	2022-11-30 to 2025-08-11	160	Nonparametric LCL around the Median
MW-32	Appendix IV	Molybdenum	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.0035	Normal LCL
MW-32	Appendix IV	Radium 226 and 228	pCi/L	16	9	56%	2022-11-30 to 2025-08-11	0.57	Nonparametric LCL around the Median
MW-32	Appendix IV	Selenium	mg/L	16	13	81%	2022-11-30 to 2025-08-11	0.00010	Nonparametric LCL around the Median
MW-32	Appendix IV	Thallium	mg/L	16	16	100%	2022-11-30 to 2025-08-11	0.000075	Nonparametric LCL around the Median
MW-32	Part 115	Copper	mg/L	16	9	56%	2022-11-30 to 2025-08-11	0.00020	Nonparametric LCL around the Median
MW-32	Part 115	Iron	mg/L	16	0	0%	2022-11-30 to 2025-08-11	14	Normal LCL
MW-32	Part 115	Nickel	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.00088	Nonparametric LCL around the Median
MW-32	Part 115	Silver	mg/L	16	16	100%	2022-11-30 to 2025-08-11	0.000050	Nonparametric LCL around the Median
MW-32	Part 115	Vanadium	mg/L	16	16	100%	2022-11-30 to 2025-08-11	0.00062	Nonparametric LCL around the Median
MW-32	Part 115	Zinc	mg/L	16	0	0%	2022-11-30 to 2025-08-11	0.0026	Nonparametric LCL around the Median